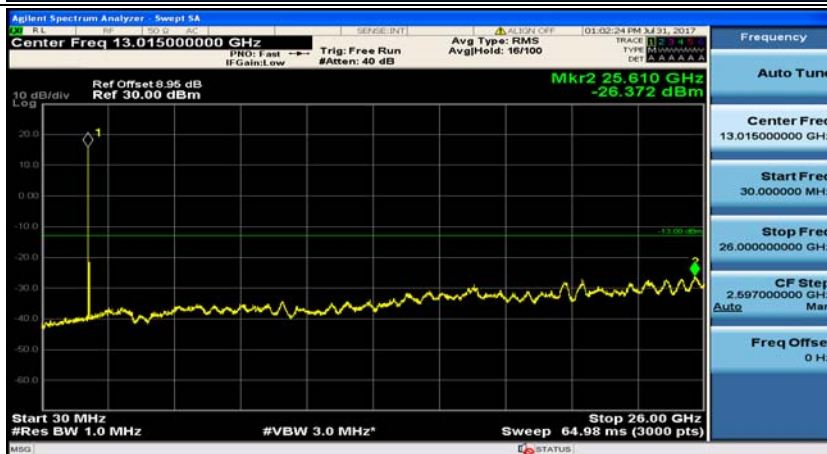
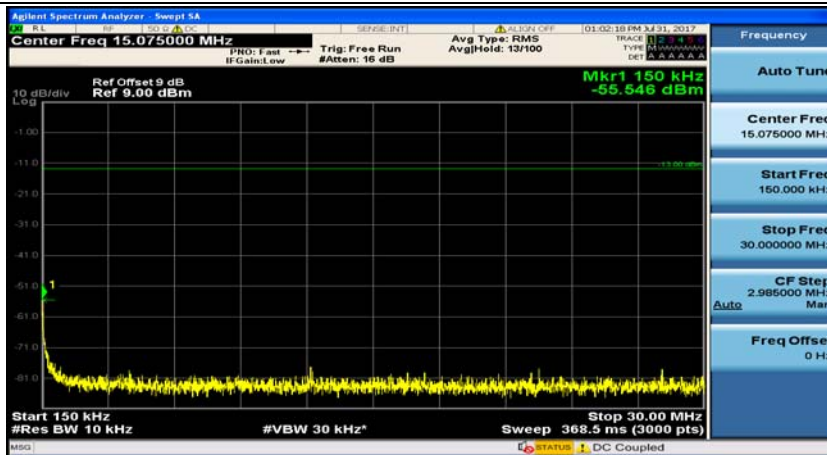
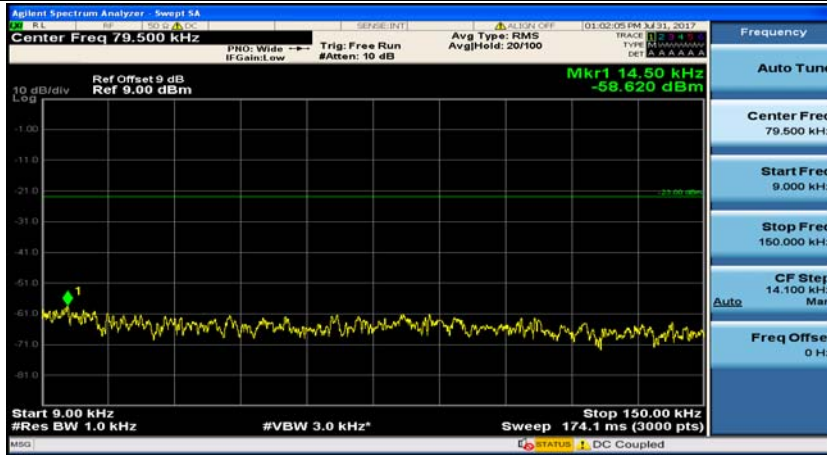
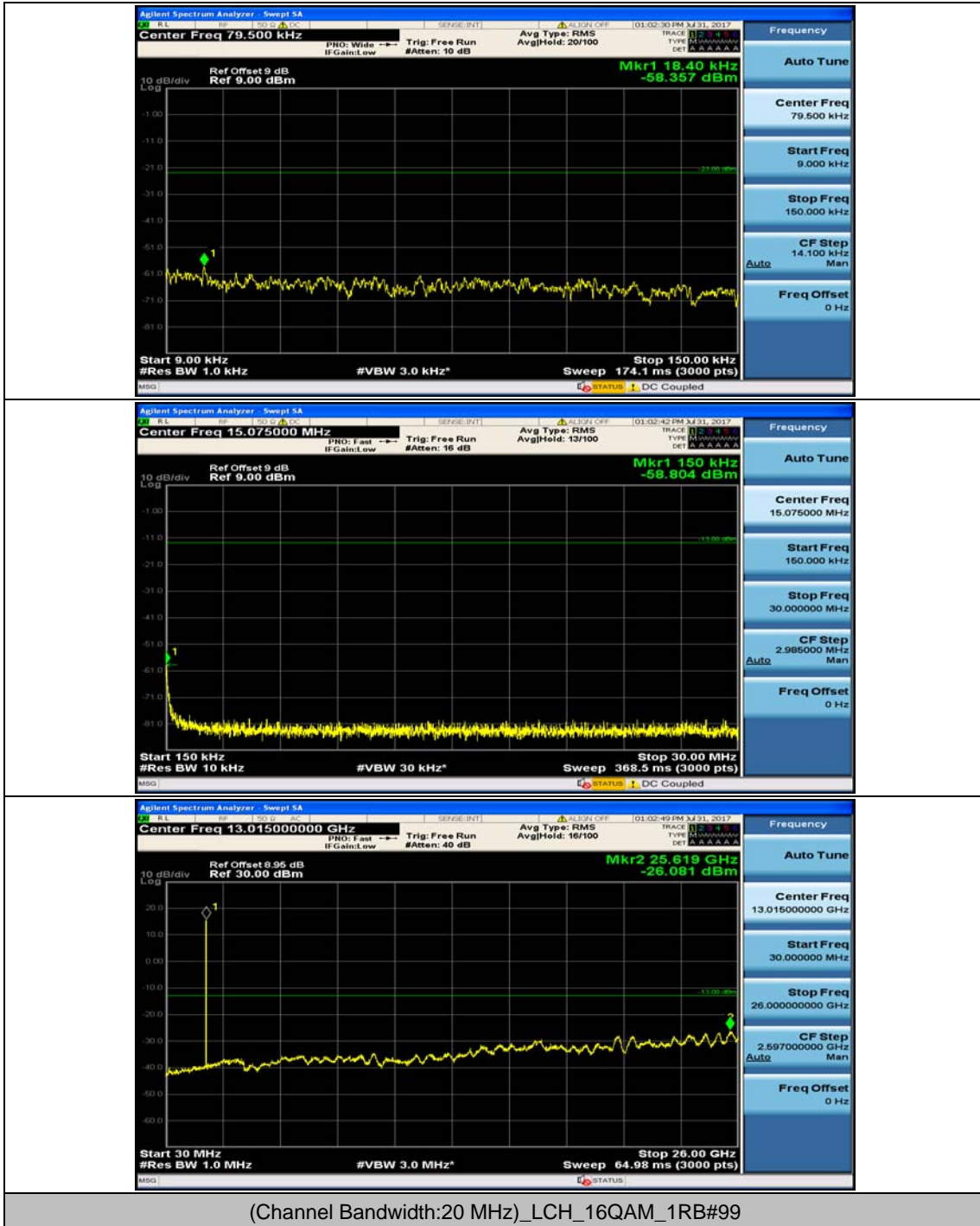
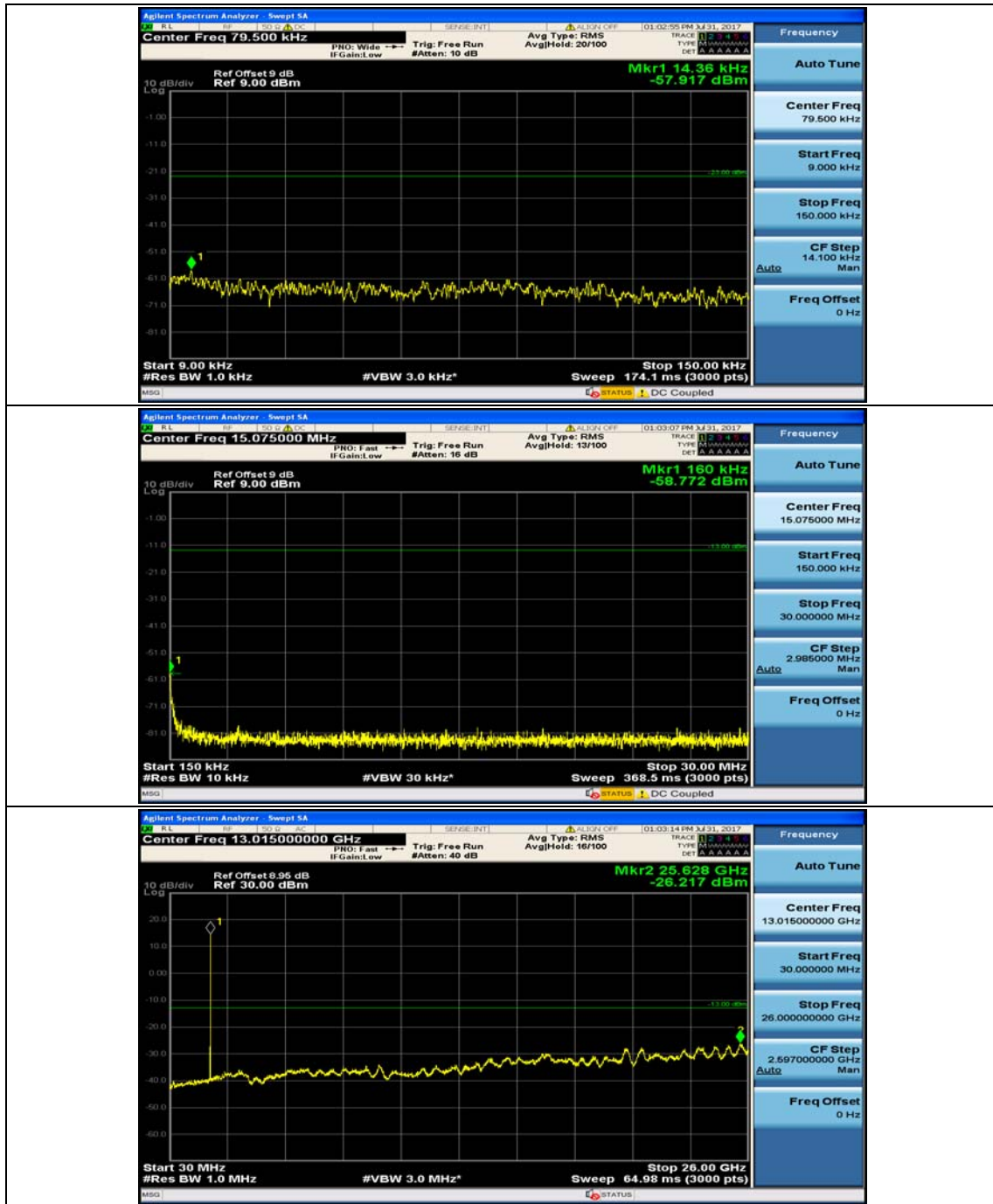


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

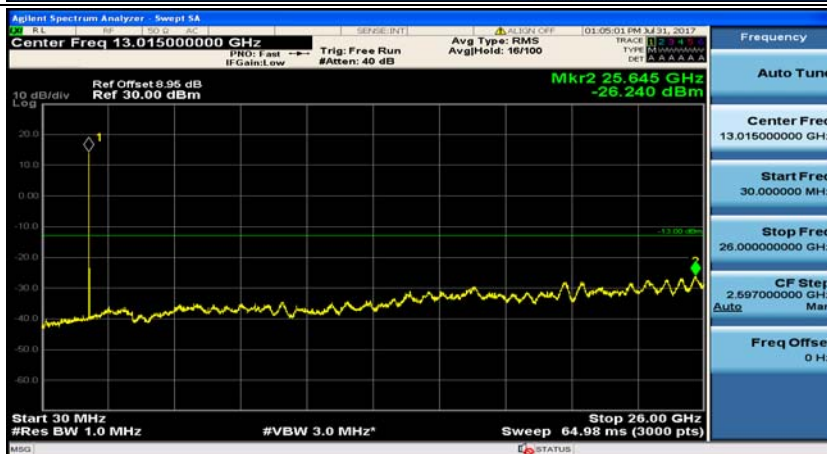
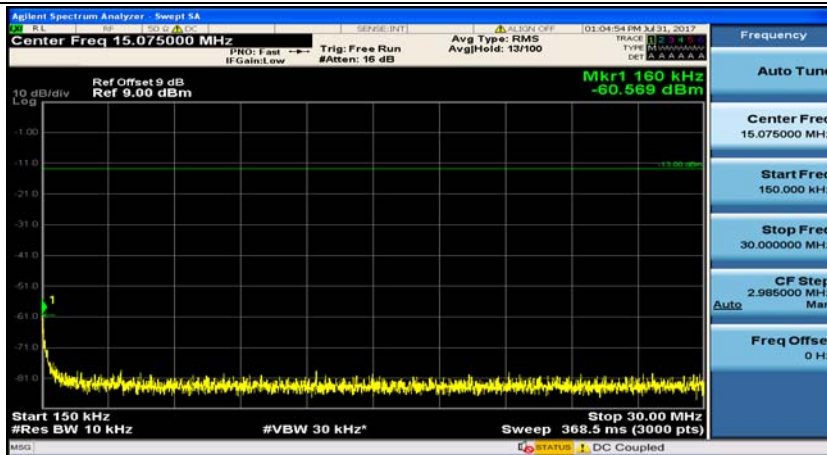
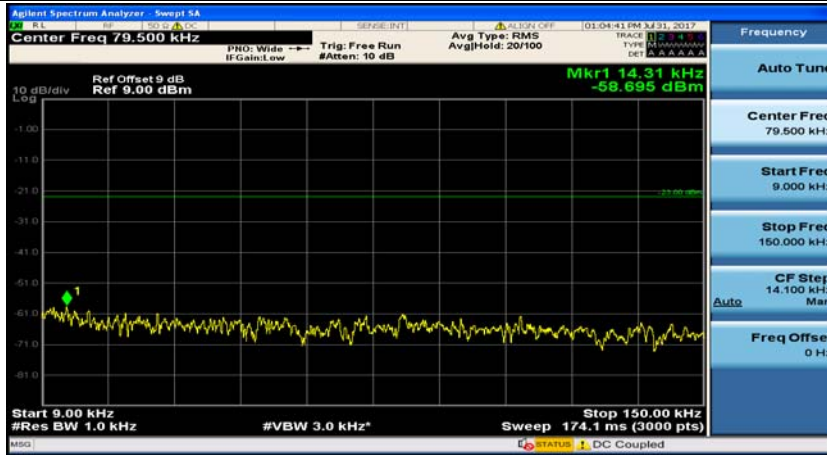


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#49

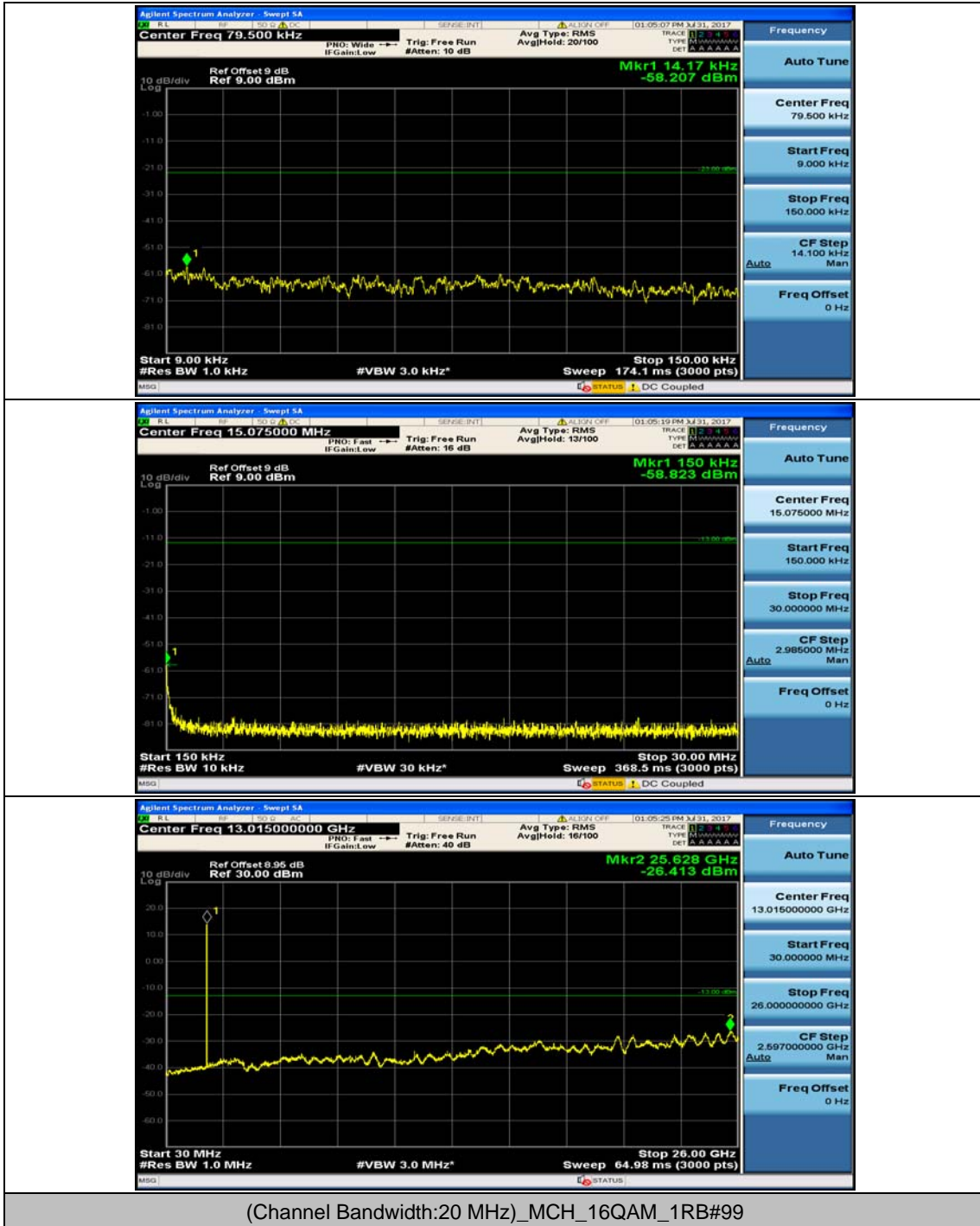


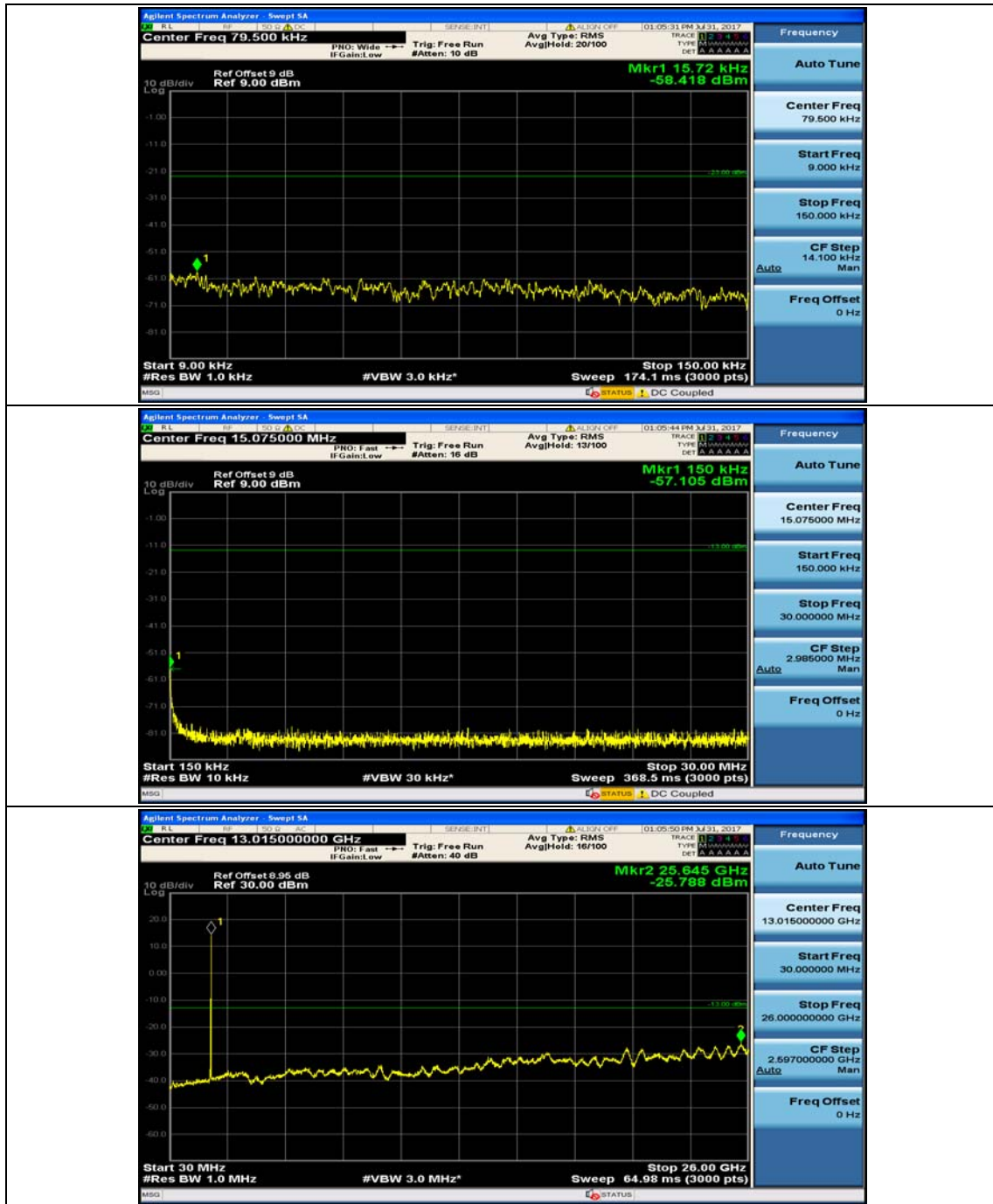


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

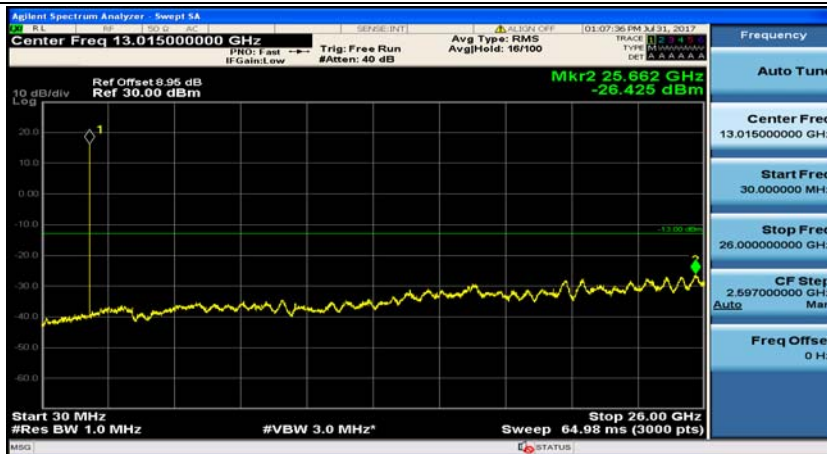
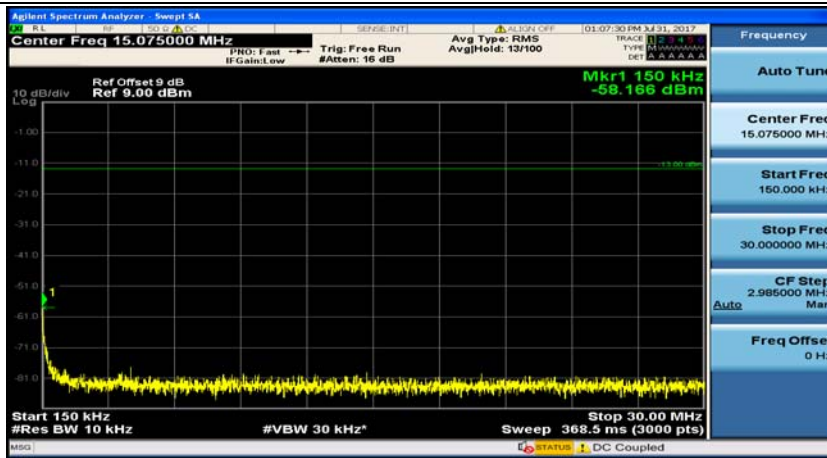
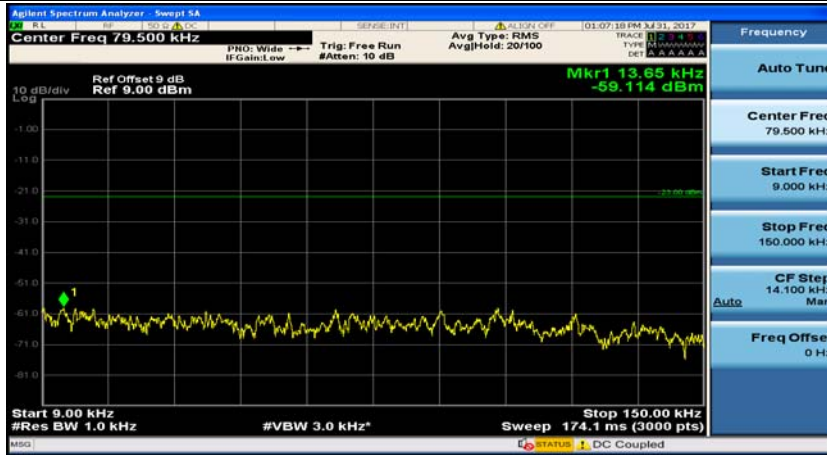


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49



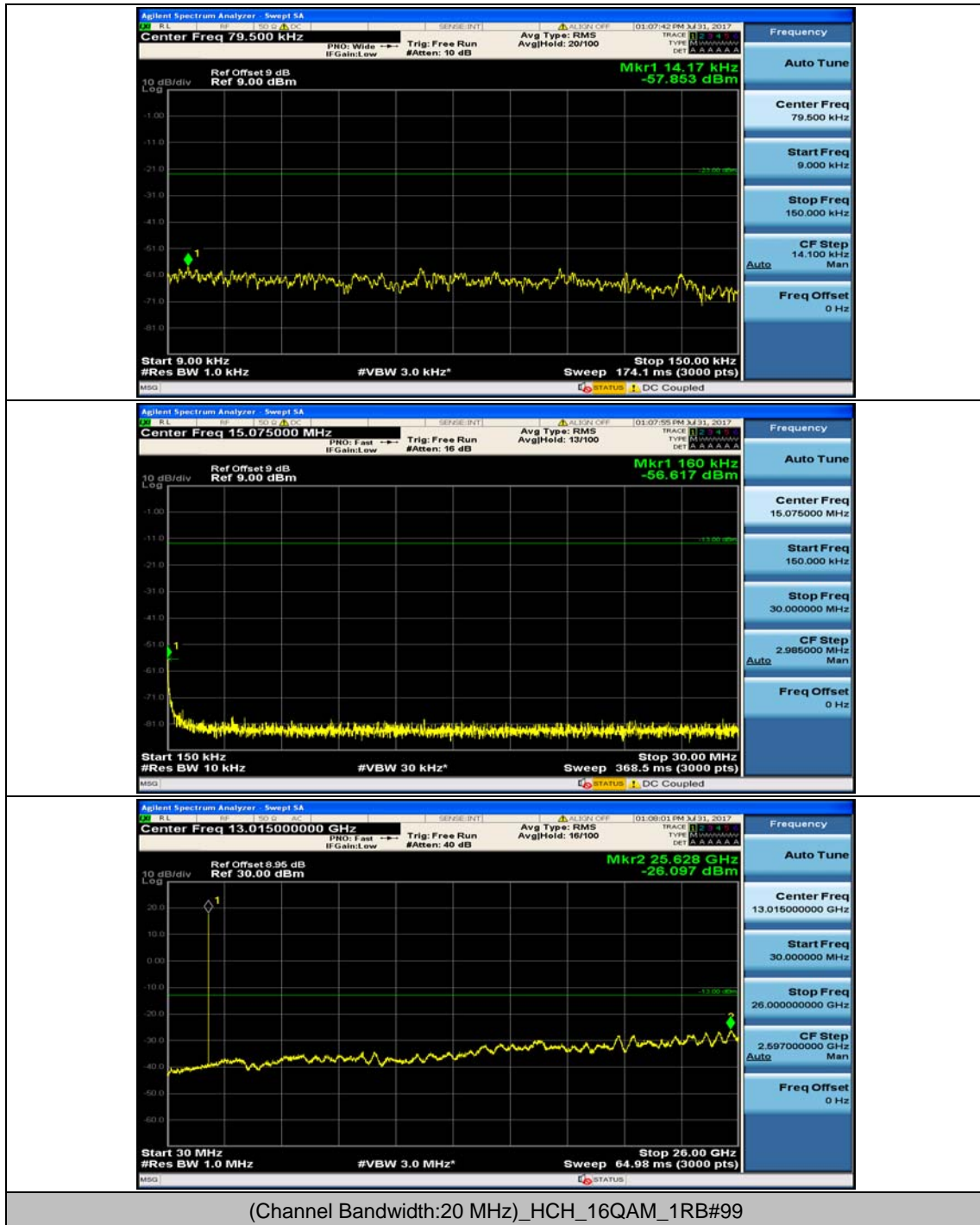


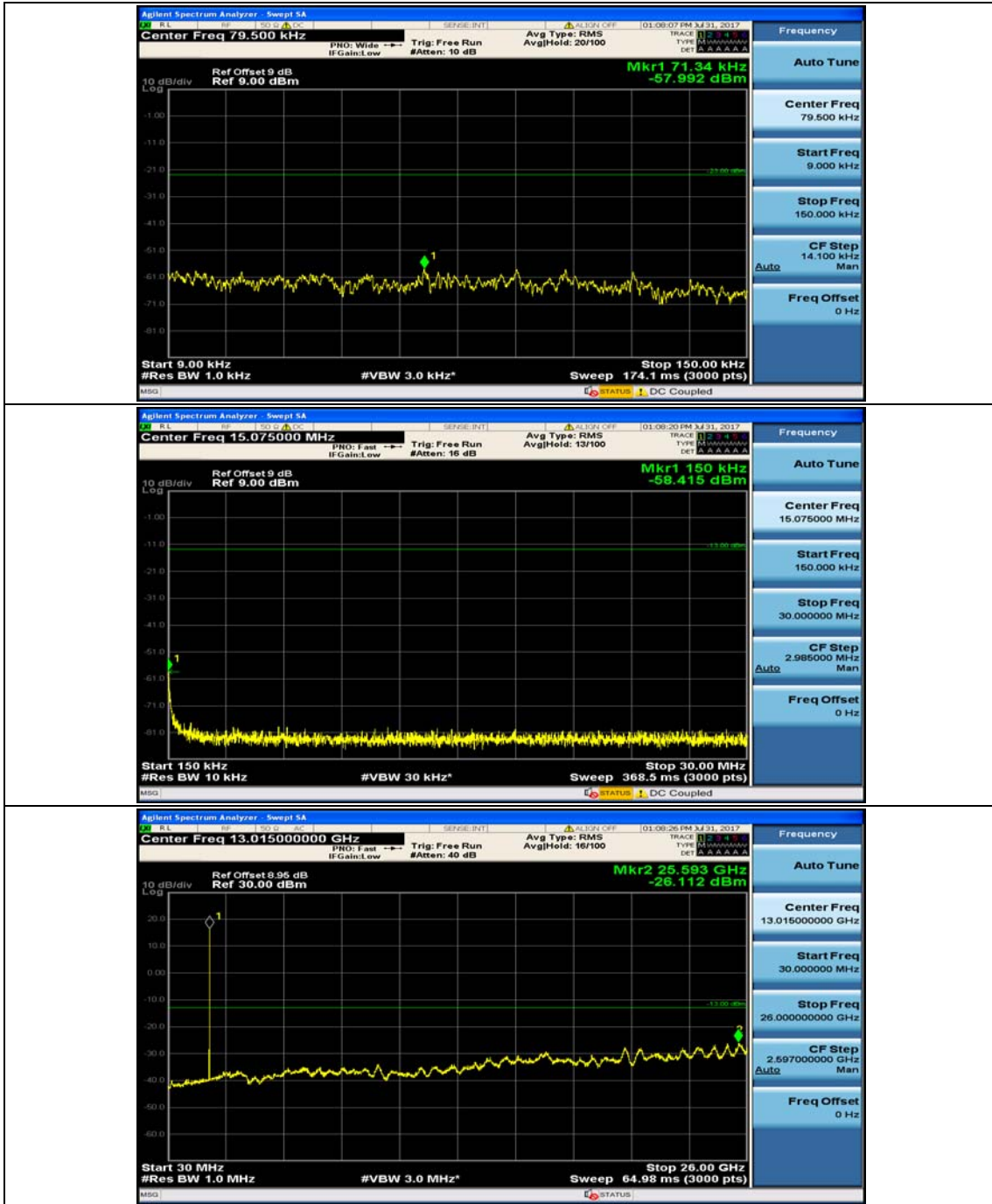
(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0



(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	4.37	0.002349	± 2.5	PASS
		VN	TN	-0.88	-0.000473	± 2.5	PASS
		VH	TN	2.66	0.001430	± 2.5	PASS
	MCH	VL	TN	3.05	0.001622	± 2.5	PASS
		VN	TN	1.32	0.000702	± 2.5	PASS
		VH	TN	2.41	0.001282	± 2.5	PASS
	HCH	VL	TN	-1.03	-0.000542	± 2.5	PASS
		VN	TN	3.59	0.001889	± 2.5	PASS
		VH	TN	2.22	0.001168	± 2.5	PASS
16QAM	LCH	VL	TN	2.23	0.001199	± 2.5	PASS
		VN	TN	-1.46	-0.000785	± 2.5	PASS
		VH	TN	2.54	0.001366	± 2.5	PASS
	MCH	VL	TN	-1.44	-0.000766	± 2.5	PASS
		VN	TN	-1.53	-0.000814	± 2.5	PASS
		VH	TN	2.49	0.001324	± 2.5	PASS
	HCH	VL	TN	4.44	0.002337	± 2.5	PASS
		VN	TN	4.41	0.002321	± 2.5	PASS
		VH	TN	2.55	0.001342	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.41	-0.000758	± 2.5	PASS
		VN	-20	3.38	0.001817	± 2.5	PASS
		VN	-10	1.42	0.000763	± 2.5	PASS
		VN	0	0.17	0.000091	± 2.5	PASS
		VN	10	1.54	0.000828	± 2.5	PASS
		VN	20	4.02	0.002161	± 2.5	PASS
		VN	30	3.97	0.002134	± 2.5	PASS
		VN	40	-1.79	-0.000962	± 2.5	PASS
		VN	50	-0.74	-0.000398	± 2.5	PASS
	MCH	VN	-30	1.88	0.001000	± 2.5	PASS

	VN	-20	1.05	0.000559	± 2.5	PASS	
		VN	-10	2.97	0.001580	± 2.5	PASS
		VN	0	0.04	0.000021	± 2.5	PASS
		VN	10	-0.23	-0.000122	± 2.5	PASS
		VN	20	-1.3	-0.000691	± 2.5	PASS
		VN	30	0.72	0.000383	± 2.5	PASS
		VN	40	2.03	0.001080	± 2.5	PASS
		VN	50	3.9	0.002074	± 2.5	PASS
	HCH	VN	-30	4.78	0.002516	± 2.5	PASS
		VN	-20	2.02	0.001063	± 2.5	PASS
		VN	-10	1.65	0.000868	± 2.5	PASS
		VN	0	-0.01	-0.000005	± 2.5	PASS
		VN	10	-1.41	-0.000742	± 2.5	PASS
		VN	20	3.99	0.002100	± 2.5	PASS
		VN	30	3.21	0.001689	± 2.5	PASS
		VN	40	4.63	0.002437	± 2.5	PASS
		VN	50	-1.54	-0.000811	± 2.5	PASS
		16QAM	LCH	VN	-30	1.67	0.000898
VN	-20			-1.14	-0.000613	± 2.5	PASS
VN	-10			3.04	0.001634	± 2.5	PASS
VN	0			0.01	0.000005	± 2.5	PASS
VN	10			2.87	0.001543	± 2.5	PASS
VN	20			0.77	0.000414	± 2.5	PASS
VN	30			2.9	0.001559	± 2.5	PASS
VN	40			-0.14	-0.000075	± 2.5	PASS
VN	50			-0.83	-0.000446	± 2.5	PASS
MCH	VN		-30	-0.47	-0.000250	± 2.5	PASS
	VN		-20	2.05	0.001090	± 2.5	PASS
	VN		-10	3.01	0.001601	± 2.5	PASS
	VN		0	0.46	0.000245	± 2.5	PASS
	VN		10	0.09	0.000048	± 2.5	PASS
	VN		20	3.97	0.002112	± 2.5	PASS
	VN		30	-1.55	-0.000824	± 2.5	PASS
	VN		40	1.14	0.000606	± 2.5	PASS
	VN		50	0.93	0.000495	± 2.5	PASS
HCH	VN		-30	3.52	0.001853	± 2.5	PASS
	VN		-20	4.47	0.002353	± 2.5	PASS
	VN		-10	0.67	0.000353	± 2.5	PASS
	VN		0	4.79	0.002521	± 2.5	PASS
	VN		10	-1.31	-0.000689	± 2.5	PASS
	VN		20	0.08	0.000042	± 2.5	PASS

		VN	30	4.18	0.002200	± 2.5	PASS
		VN	40	0.81	0.000426	± 2.5	PASS
		VN	50	-1.22	-0.000642	± 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	3.94	0.002118	± 2.5	PASS
		VN	TN	4.13	0.002220	± 2.5	PASS
		VH	TN	-0.57	-0.000306	± 2.5	PASS
	MCH	VL	TN	-0.3	-0.000160	± 2.5	PASS
		VN	TN	-1.16	-0.000617	± 2.5	PASS
		VH	TN	4.84	0.002574	± 2.5	PASS
	HCH	VL	TN	0.04	0.000021	± 2.5	PASS
		VN	TN	-1.65	-0.000868	± 2.5	PASS
		VH	TN	-0.03	-0.000016	± 2.5	PASS
16QAM	LCH	VL	TN	2.14	0.001151	± 2.5	PASS
		VN	TN	-0.06	-0.000032	± 2.5	PASS
		VH	TN	1.77	0.000952	± 2.5	PASS
	MCH	VL	TN	4.16	0.002213	± 2.5	PASS
		VN	TN	-0.72	-0.000383	± 2.5	PASS
		VH	TN	5	0.002660	± 2.5	PASS
	HCH	VL	TN	0.59	0.000311	± 2.5	PASS
		VN	TN	-0.64	-0.000337	± 2.5	PASS
		VH	TN	4.9	0.002579	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.25	0.001210	± 2.5	PASS
		VN	-20	-1.11	-0.000597	± 2.5	PASS
		VN	-10	-0.13	-0.000070	± 2.5	PASS
		VN	0	-0.61	-0.000328	± 2.5	PASS
		VN	10	-0.49	-0.000263	± 2.5	PASS
		VN	20	0.64	0.000344	± 2.5	PASS
		VN	30	0.89	0.000478	± 2.5	PASS
		VN	40	0.36	0.000194	± 2.5	PASS
		VN	50	0.31	0.000167	± 2.5	PASS
	MCH	VN	-30	2.44	0.001298	± 2.5	PASS
		VN	-20	-0.51	-0.000271	± 2.5	PASS

		VN	-10	0.94	0.000500	± 2.5	PASS		
		VN	0	-0.12	-0.000064	± 2.5	PASS		
		VN	10	-1.07	-0.000569	± 2.5	PASS		
		VN	20	3.12	0.001660	± 2.5	PASS		
		VN	30	-1.47	-0.000782	± 2.5	PASS		
		VN	40	-0.74	-0.000394	± 2.5	PASS		
		VN	50	4.32	0.002298	± 2.5	PASS		
	HCH	VN	-30	2.94	0.001547	± 2.5	PASS		
		VN	-20	0.31	0.000163	± 2.5	PASS		
		VN	-10	0.99	0.000521	± 2.5	PASS		
		VN	0	4.19	0.002205	± 2.5	PASS		
		VN	10	4.25	0.002237	± 2.5	PASS		
		VN	20	-1.67	-0.000879	± 2.5	PASS		
		VN	30	-0.8	-0.000421	± 2.5	PASS		
		VN	40	1.61	0.000847	± 2.5	PASS		
		VN	50	-0.87	-0.000458	± 2.5	PASS		
		QPSK	LCH	VN	-30	4.21	0.002263	± 2.5	PASS
				VN	-20	-1.11	-0.000597	± 2.5	PASS
VN	-10			1.74	0.000935	± 2.5	PASS		
VN	0			2	0.001075	± 2.5	PASS		
VN	10			3.68	0.001978	± 2.5	PASS		
VN	20			0.95	0.000511	± 2.5	PASS		
VN	30			-0.14	-0.000075	± 2.5	PASS		
VN	40			0.61	0.000328	± 2.5	PASS		
VN	50			1.22	0.000656	± 2.5	PASS		
MCH	VN		-30	3.91	0.002080	± 2.5	PASS		
	VN		-20	-1.96	-0.001043	± 2.5	PASS		
	VN		-10	1.96	0.001043	± 2.5	PASS		
	VN		0	3.43	0.001824	± 2.5	PASS		
	VN		10	-1.63	-0.000867	± 2.5	PASS		
	VN		20	3.78	0.002011	± 2.5	PASS		
	VN		30	-0.87	-0.000463	± 2.5	PASS		
	VN		40	2.87	0.001527	± 2.5	PASS		
	VN		50	0.95	0.000505	± 2.5	PASS		
HCH	VN		-30	4.85	0.002553	± 2.5	PASS		
	VN		-20	4.91	0.002584	± 2.5	PASS		
	VN		-10	3.39	0.001784	± 2.5	PASS		
	VN		0	0.38	0.000200	± 2.5	PASS		
	VN		10	-1.77	-0.000932	± 2.5	PASS		
	VN		20	0.67	0.000353	± 2.5	PASS		
	VN		30	4.78	0.002516	± 2.5	PASS		

		VN	40	-1.7	-0.000895	± 2.5	PASS
		VN	50	2.87	0.001511	± 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	0.73	0.000392	± 2.5	PASS
		VN	TN	0.08	0.000043	± 2.5	PASS
		VH	TN	4.75	0.002554	± 2.5	PASS
	MCH	VL	TN	2.02	0.001074	± 2.5	PASS
		VN	TN	-0.98	-0.000521	± 2.5	PASS
		VH	TN	3.24	0.001723	± 2.5	PASS
	HCH	VL	TN	3.56	0.001874	± 2.5	PASS
		VN	TN	1.25	0.000658	± 2.5	PASS
		VH	TN	2.42	0.001274	± 2.5	PASS
16QAM	LCH	VL	TN	-1.24	-0.000667	± 2.5	PASS
		VN	TN	2.71	0.001457	± 2.5	PASS
		VH	TN	0.33	0.000177	± 2.5	PASS
	MCH	VL	TN	-0.5	-0.000266	± 2.5	PASS
		VN	TN	2.09	0.001112	± 2.5	PASS
		VH	TN	0.45	0.000239	± 2.5	PASS
	HCH	VL	TN	2.1	0.001105	± 2.5	PASS
		VN	TN	-1.05	-0.000553	± 2.5	PASS
		VH	TN	2.83	0.001489	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.31	0.000167	± 2.5	PASS
		VN	-20	0.51	0.000274	± 2.5	PASS
		VN	-10	-1.97	-0.001059	± 2.5	PASS
		VN	0	3.46	0.001860	± 2.5	PASS
		VN	10	3.93	0.002113	± 2.5	PASS
		VN	20	2.53	0.001360	± 2.5	PASS
		VN	30	4.83	0.002597	± 2.5	PASS
		VN	40	-0.49	-0.000263	± 2.5	PASS
		VN	50	4.13	0.002220	± 2.5	PASS
	MCH	VN	-30	1.81	0.000963	± 2.5	PASS
		VN	-20	3.56	0.001894	± 2.5	PASS
		VN	-10	-1.4	-0.000745	± 2.5	PASS

		VN	0	2.07	0.001101	± 2.5	PASS		
		VN	10	1.3	0.000691	± 2.5	PASS		
		VN	20	-0.67	-0.000356	± 2.5	PASS		
		VN	30	1.43	0.000761	± 2.5	PASS		
		VN	40	4.54	0.002415	± 2.5	PASS		
		VN	50	-1.3	-0.000691	± 2.5	PASS		
	HCH	VN	-30	2.3	0.001211	± 2.5	PASS		
		VN	-20	4.99	0.002626	± 2.5	PASS		
		VN	-10	-1.7	-0.000895	± 2.5	PASS		
		VN	0	3.9	0.002053	± 2.5	PASS		
		VN	10	2.79	0.001468	± 2.5	PASS		
		VN	20	-0.92	-0.000484	± 2.5	PASS		
		VN	30	3.94	0.002074	± 2.5	PASS		
		VN	40	-1.22	-0.000642	± 2.5	PASS		
		VN	50	1.86	0.000979	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.64	0.001419	± 2.5	PASS
				VN	-20	3.5	0.001882	± 2.5	PASS
				VN	-10	2.83	0.001522	± 2.5	PASS
VN	0			4.54	0.002441	± 2.5	PASS		
VN	10			3.18	0.001710	± 2.5	PASS		
VN	20			1.62	0.000871	± 2.5	PASS		
VN	30			-0.1	-0.000054	± 2.5	PASS		
VN	40			3.58	0.001925	± 2.5	PASS		
VN	50			-1.56	-0.000839	± 2.5	PASS		
MCH	VN		-30	-0.84	-0.000447	± 2.5	PASS		
	VN		-20	4.25	0.002261	± 2.5	PASS		
	VN		-10	-1.51	-0.000803	± 2.5	PASS		
	VN		0	0.48	0.000255	± 2.5	PASS		
	VN		10	1.92	0.001021	± 2.5	PASS		
	VN		20	3.8	0.002021	± 2.5	PASS		
	VN		30	-1.43	-0.000761	± 2.5	PASS		
	VN		40	-1.7	-0.000904	± 2.5	PASS		
	VN		50	1.78	0.000947	± 2.5	PASS		
HCH	VN		-30	2.08	0.001095	± 2.5	PASS		
	VN		-20	-1.77	-0.000932	± 2.5	PASS		
	VN		-10	-1.13	-0.000595	± 2.5	PASS		
	VN		0	-1.06	-0.000558	± 2.5	PASS		
	VN		10	3.98	0.002095	± 2.5	PASS		
	VN		20	4.07	0.002142	± 2.5	PASS		
	VN		30	-0.21	-0.000111	± 2.5	PASS		
	VN		40	2.83	0.001489	± 2.5	PASS		



		VN	50	1.79	0.000942	± 2.5	PASS
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**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	3.13	0.001683	± 2.5	PASS
		VN	TN	1.22	0.000656	± 2.5	PASS
		VH	TN	1.36	0.000731	± 2.5	PASS
	MCH	VL	TN	-0.96	-0.000511	± 2.5	PASS
		VN	TN	0.07	0.000037	± 2.5	PASS
		VH	TN	3.73	0.001984	± 2.5	PASS
	HCH	VL	TN	0.49	0.000258	± 2.5	PASS
		VN	TN	3.71	0.001953	± 2.5	PASS
		VH	TN	3.4	0.001789	± 2.5	PASS
16QAM	LCH	VL	TN	0.24	0.000129	± 2.5	PASS
		VN	TN	-1.77	-0.000952	± 2.5	PASS
		VH	TN	-0.92	-0.000495	± 2.5	PASS
	MCH	VL	TN	2.51	0.001335	± 2.5	PASS
		VN	TN	4.66	0.002479	± 2.5	PASS
		VH	TN	3.32	0.001766	± 2.5	PASS
	HCH	VL	TN	0.49	0.000258	± 2.5	PASS
		VN	TN	4.23	0.002226	± 2.5	PASS
		VH	TN	4.08	0.002147	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.71	0.001457	± 2.5	PASS
		VN	-20	-0.66	-0.000355	± 2.5	PASS
		VN	-10	0.28	0.000151	± 2.5	PASS
		VN	0	-1.97	-0.001059	± 2.5	PASS
		VN	10	-0.67	-0.000360	± 2.5	PASS
		VN	20	1.55	0.000833	± 2.5	PASS
		VN	30	4.79	0.002575	± 2.5	PASS
		VN	40	0.09	0.000048	± 2.5	PASS
		VN	50	2.97	0.001597	± 2.5	PASS
	MCH	VN	-30	3.68	0.001957	± 2.5	PASS
		VN	-20	2.34	0.001245	± 2.5	PASS
		VN	-10	3.21	0.001707	± 2.5	PASS
		VN	0	1.24	0.000660	± 2.5	PASS

		VN	10	0.66	0.000351	± 2.5	PASS
		VN	20	1.41	0.000750	± 2.5	PASS
		VN	30	-0.73	-0.000388	± 2.5	PASS
		VN	40	2.62	0.001394	± 2.5	PASS
		VN	50	-1.76	-0.000936	± 2.5	PASS
	HCH	VN	-30	1.56	0.000821	± 2.5	PASS
		VN	-20	-1.78	-0.000937	± 2.5	PASS
		VN	-10	1.63	0.000858	± 2.5	PASS
		VN	0	1.34	0.000705	± 2.5	PASS
		VN	10	2.2	0.001158	± 2.5	PASS
		VN	20	3.4	0.001789	± 2.5	PASS
		VN	30	2.72	0.001432	± 2.5	PASS
		VN	40	1.11	0.000584	± 2.5	PASS
		VN	50	0.59	0.000311	± 2.5	PASS
		QPSK	LCH	VN	-30	2.84	0.001527
VN	-20			1.71	0.000919	± 2.5	PASS
VN	-10			3.85	0.002070	± 2.5	PASS
VN	0			-0.78	-0.000419	± 2.5	PASS
VN	10			-0.88	-0.000473	± 2.5	PASS
VN	20			2.49	0.001339	± 2.5	PASS
VN	30			1.48	0.000796	± 2.5	PASS
VN	40			2.5	0.001344	± 2.5	PASS
VN	50			-1.2	-0.000645	± 2.5	PASS
MCH	VN		-30	4.43	0.002356	± 2.5	PASS
	VN		-20	3.87	0.002059	± 2.5	PASS
	VN		-10	0.63	0.000335	± 2.5	PASS
	VN		0	3.04	0.001617	± 2.5	PASS
	VN		10	-0.06	-0.000032	± 2.5	PASS
	VN		20	0.22	0.000117	± 2.5	PASS
	VN		30	-0.31	-0.000165	± 2.5	PASS
	VN		40	4.26	0.002266	± 2.5	PASS
	VN		50	-0.59	-0.000314	± 2.5	PASS
HCH	VN		-30	-1.4	-0.000737	± 2.5	PASS
	VN		-20	-0.62	-0.000326	± 2.5	PASS
	VN		-10	3.8	0.002000	± 2.5	PASS
	VN		0	-1.07	-0.000563	± 2.5	PASS
	VN		10	1.58	0.000832	± 2.5	PASS
	VN		20	-1.45	-0.000763	± 2.5	PASS
	VN		30	2.75	0.001447	± 2.5	PASS
	VN		40	2.62	0.001379	± 2.5	PASS
	VN		50	-0.99	-0.000521	± 2.5	PASS

**Channel Bandwidth: 15 MHz**

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.05	0.002177	± 2.5	PASS
		VN	TN	-1.18	-0.000634	± 2.5	PASS
		VH	TN	3.07	0.001651	± 2.5	PASS
	MCH	VL	TN	-1.44	-0.000766	± 2.5	PASS
		VN	TN	3.78	0.002011	± 2.5	PASS
		VH	TN	1.99	0.001059	± 2.5	PASS
	HCH	VL	TN	1.29	0.000679	± 2.5	PASS
		VN	TN	-0.48	-0.000253	± 2.5	PASS
		VH	TN	1.21	0.000637	± 2.5	PASS
16QAM	LCH	VL	TN	4.7	0.002527	± 2.5	PASS
		VN	TN	2.48	0.001333	± 2.5	PASS
		VH	TN	2.5	0.001344	± 2.5	PASS
	MCH	VL	TN	4.2	0.002234	± 2.5	PASS
		VN	TN	-2	-0.001064	± 2.5	PASS
		VH	TN	3.07	0.001633	± 2.5	PASS
	HCH	VL	TN	3.48	0.001832	± 2.5	PASS
		VN	TN	0.47	0.000247	± 2.5	PASS
		VH	TN	3.16	0.001663	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.65	0.000887	± 2.5	PASS
		VN	-20	-1.21	-0.000651	± 2.5	PASS
		VN	-10	0.26	0.000140	± 2.5	PASS
		VN	0	4.77	0.002565	± 2.5	PASS
		VN	10	-0.06	-0.000032	± 2.5	PASS
		VN	20	2.77	0.001489	± 2.5	PASS
		VN	30	2.85	0.001532	± 2.5	PASS
		VN	40	-0.51	-0.000274	± 2.5	PASS
		VN	50	2.16	0.001161	± 2.5	PASS
	MCH	VN	-30	3.05	0.001622	± 2.5	PASS
		VN	-20	0.44	0.000234	± 2.5	PASS
		VN	-10	4.31	0.002293	± 2.5	PASS
		VN	0	2.44	0.001298	± 2.5	PASS
		VN	10	3.87	0.002059	± 2.5	PASS
		VN	20	-1.75	-0.000931	± 2.5	PASS

	VN	30	1.83	0.000973	± 2.5	PASS	
		40	1.74	0.000926	± 2.5	PASS	
		50	3.85	0.002048	± 2.5	PASS	
	HCH	VN	-30	2.9	0.001526	± 2.5	PASS
		VN	-20	1.04	0.000547	± 2.5	PASS
		VN	-10	-1.72	-0.000905	± 2.5	PASS
		VN	0	0.58	0.000305	± 2.5	PASS
		VN	10	3.58	0.001884	± 2.5	PASS
		VN	20	0.32	0.000168	± 2.5	PASS
		VN	30	3.19	0.001679	± 2.5	PASS
		VN	40	0.98	0.000516	± 2.5	PASS
		VN	50	0.19	0.000100	± 2.5	PASS
QPSK	LCH	VN	-30	0.71	0.000382	± 2.5	PASS
		VN	-20	4.14	0.002226	± 2.5	PASS
		VN	-10	3.21	0.001726	± 2.5	PASS
		VN	0	-0.43	-0.000231	± 2.5	PASS
		VN	10	-1.46	-0.000785	± 2.5	PASS
		VN	20	2.36	0.001269	± 2.5	PASS
		VN	30	-0.18	-0.000097	± 2.5	PASS
		VN	40	1.94	0.001043	± 2.5	PASS
		VN	50	1.42	0.000763	± 2.5	PASS
	MCH	VN	-30	0.99	0.000527	± 2.5	PASS
		VN	-20	1.3	0.000691	± 2.5	PASS
		VN	-10	5	0.002660	± 2.5	PASS
		VN	0	-1.49	-0.000793	± 2.5	PASS
		VN	10	0.58	0.000309	± 2.5	PASS
		VN	20	-0.56	-0.000298	± 2.5	PASS
		VN	30	3.4	0.001809	± 2.5	PASS
		VN	40	1.71	0.000910	± 2.5	PASS
		VN	50	3.75	0.001995	± 2.5	PASS
	HCH	VN	-30	-1.57	-0.000826	± 2.5	PASS
		VN	-20	0.91	0.000479	± 2.5	PASS
		VN	-10	-0.72	-0.000379	± 2.5	PASS
		VN	0	3.58	0.001884	± 2.5	PASS
		VN	10	0.27	0.000142	± 2.5	PASS
		VN	20	2.43	0.001279	± 2.5	PASS
		VN	30	-0.08	-0.000042	± 2.5	PASS
		VN	40	-1.98	-0.001042	± 2.5	PASS
		VN	50	2.45	0.001289	± 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	0.46	0.000247	± 2.5	PASS
		VN	TN	0.35	0.000188	± 2.5	PASS
		VH	TN	1.05	0.000565	± 2.5	PASS
	MCH	VL	TN	2.33	0.001239	± 2.5	PASS
		VN	TN	-0.11	-0.000059	± 2.5	PASS
		VH	TN	1.31	0.000697	± 2.5	PASS
	HCH	VL	TN	0.66	0.000347	± 2.5	PASS
		VN	TN	0.76	0.000400	± 2.5	PASS
		VH	TN	-0.81	-0.000426	± 2.5	PASS
16QAM	LCH	VL	TN	2.17	0.001167	± 2.5	PASS
		VN	TN	1.52	0.000817	± 2.5	PASS
		VH	TN	1.18	0.000634	± 2.5	PASS
	MCH	VL	TN	-0.32	-0.000170	± 2.5	PASS
		VN	TN	1.82	0.000968	± 2.5	PASS
		VH	TN	-1.77	-0.000941	± 2.5	PASS
	HCH	VL	TN	-0.8	-0.000421	± 2.5	PASS
		VN	TN	2.31	0.001216	± 2.5	PASS
		VH	TN	1.53	0.000805	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.24	0.002280	± 2.5	PASS
		VN	-20	3.85	0.002070	± 2.5	PASS
		VN	-10	2.75	0.001478	± 2.5	PASS
		VN	0	2.92	0.001570	± 2.5	PASS
		VN	10	0.57	0.000306	± 2.5	PASS
		VN	20	0.7	0.000376	± 2.5	PASS
		VN	30	0.6	0.000323	± 2.5	PASS
		VN	40	1.61	0.000866	± 2.5	PASS
		VN	50	-0.2	-0.000108	± 2.5	PASS
	MCH	VN	-30	4.33	0.002303	± 2.5	PASS
		VN	-20	-0.21	-0.000112	± 2.5	PASS
		VN	-10	-0.81	-0.000431	± 2.5	PASS
		VN	0	3.52	0.001872	± 2.5	PASS
		VN	10	3.99	0.002122	± 2.5	PASS
		VN	20	0.17	0.000090	± 2.5	PASS

		VN	30	-1.17	-0.000622	± 2.5	PASS
		VN	40	-1.39	-0.000739	± 2.5	PASS
		VN	50	0.2	0.000106	± 2.5	PASS
	HCH	VN	-30	4.46	0.002347	± 2.5	PASS
		VN	-20	0.41	0.000216	± 2.5	PASS
		VN	-10	4.48	0.002358	± 2.5	PASS
		VN	0	-1.15	-0.000605	± 2.5	PASS
		VN	10	4.41	0.002321	± 2.5	PASS
		VN	20	0.83	0.000437	± 2.5	PASS
		VN	30	1.39	0.000732	± 2.5	PASS
		VN	40	-1.35	-0.000711	± 2.5	PASS
		VN	50	-0.66	-0.000347	± 2.5	PASS
QPSK	LCH	VN	-30	-0.91	-0.000489	± 2.5	PASS
		VN	-20	3.87	0.002081	± 2.5	PASS
		VN	-10	0.58	0.000312	± 2.5	PASS
		VN	0	1.96	0.001054	± 2.5	PASS
		VN	10	-1.37	-0.000737	± 2.5	PASS
		VN	20	-1.48	-0.000796	± 2.5	PASS
		VN	30	2.33	0.001253	± 2.5	PASS
		VN	40	1.08	0.000581	± 2.5	PASS
		VN	50	1.76	0.000946	± 2.5	PASS
	MCH	VN	-30	3.24	0.001723	± 2.5	PASS
		VN	-20	1	0.000532	± 2.5	PASS
		VN	-10	4.52	0.002404	± 2.5	PASS
		VN	0	1.35	0.000718	± 2.5	PASS
		VN	10	-0.87	-0.000463	± 2.5	PASS
		VN	20	0.09	0.000048	± 2.5	PASS
		VN	30	3.35	0.001782	± 2.5	PASS
		VN	40	0.5	0.000266	± 2.5	PASS
		VN	50	1.93	0.001027	± 2.5	PASS
	HCH	VN	-30	4.33	0.002279	± 2.5	PASS
		VN	-20	1.53	0.000805	± 2.5	PASS
		VN	-10	-0.49	-0.000258	± 2.5	PASS
		VN	0	2.3	0.001211	± 2.5	PASS
		VN	10	-1.72	-0.000905	± 2.5	PASS
		VN	20	0.39	0.000205	± 2.5	PASS
		VN	30	4.45	0.002342	± 2.5	PASS
		VN	40	2.4	0.001263	± 2.5	PASS
		VN	50	1.1	0.000579	± 2.5	PASS