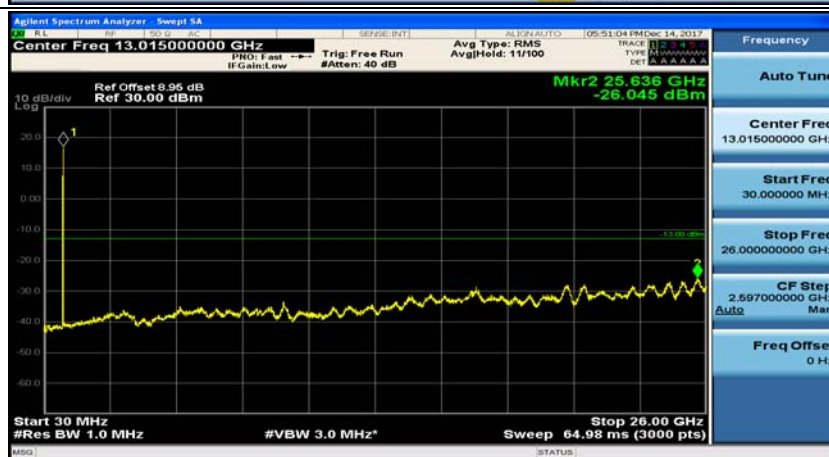
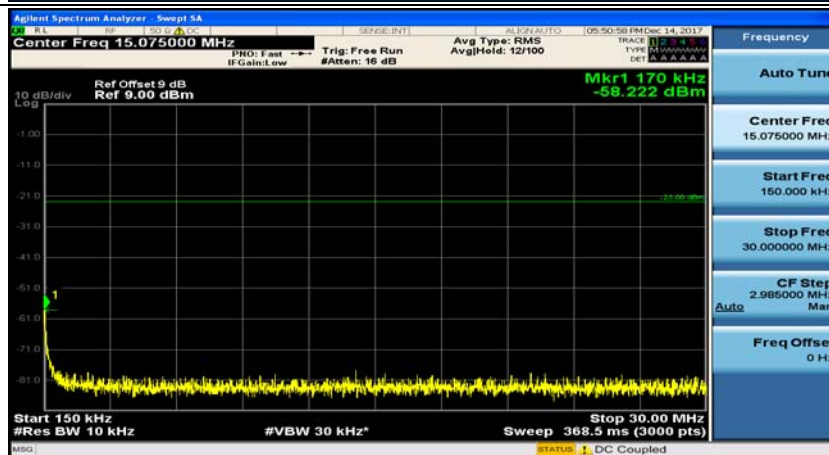
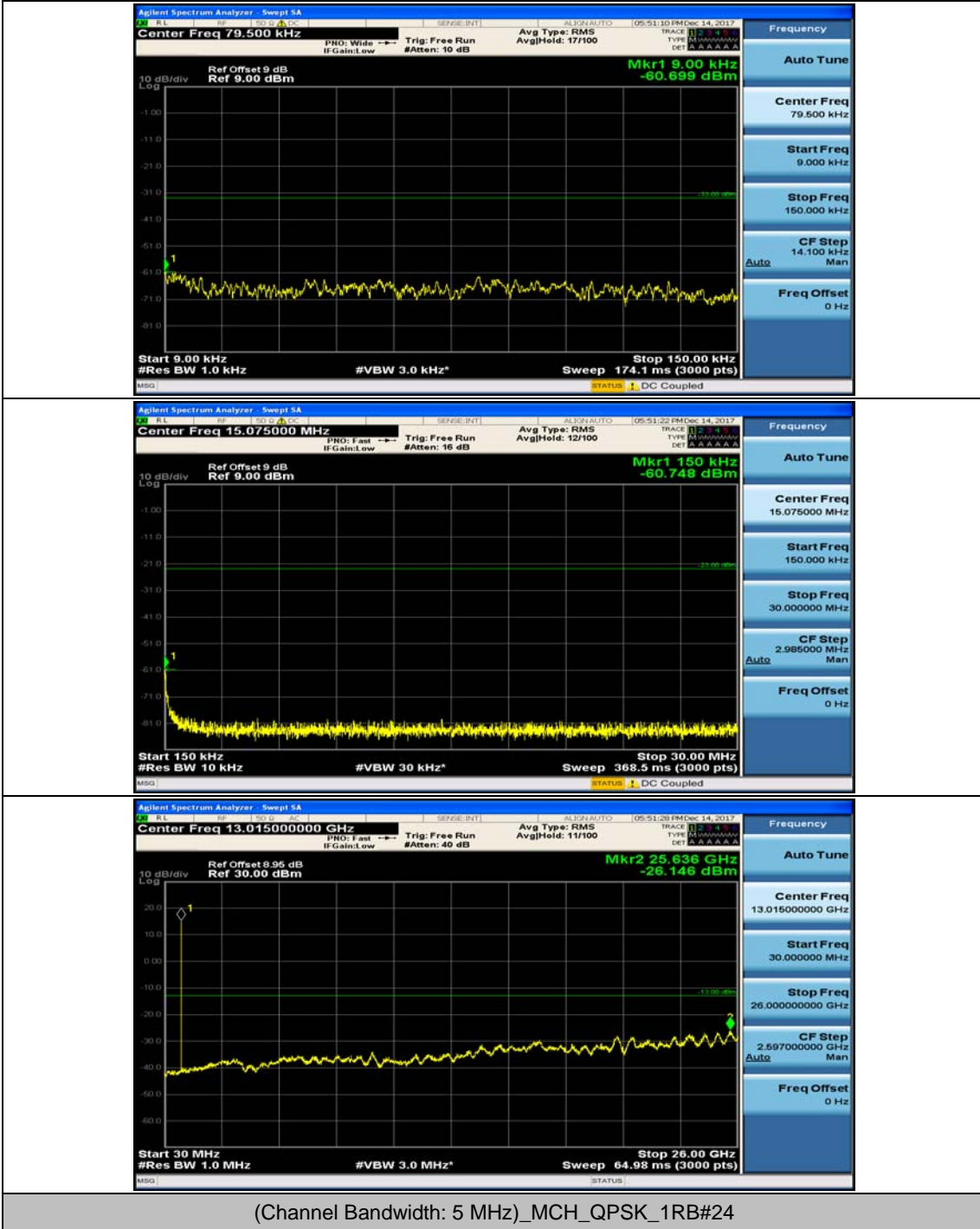
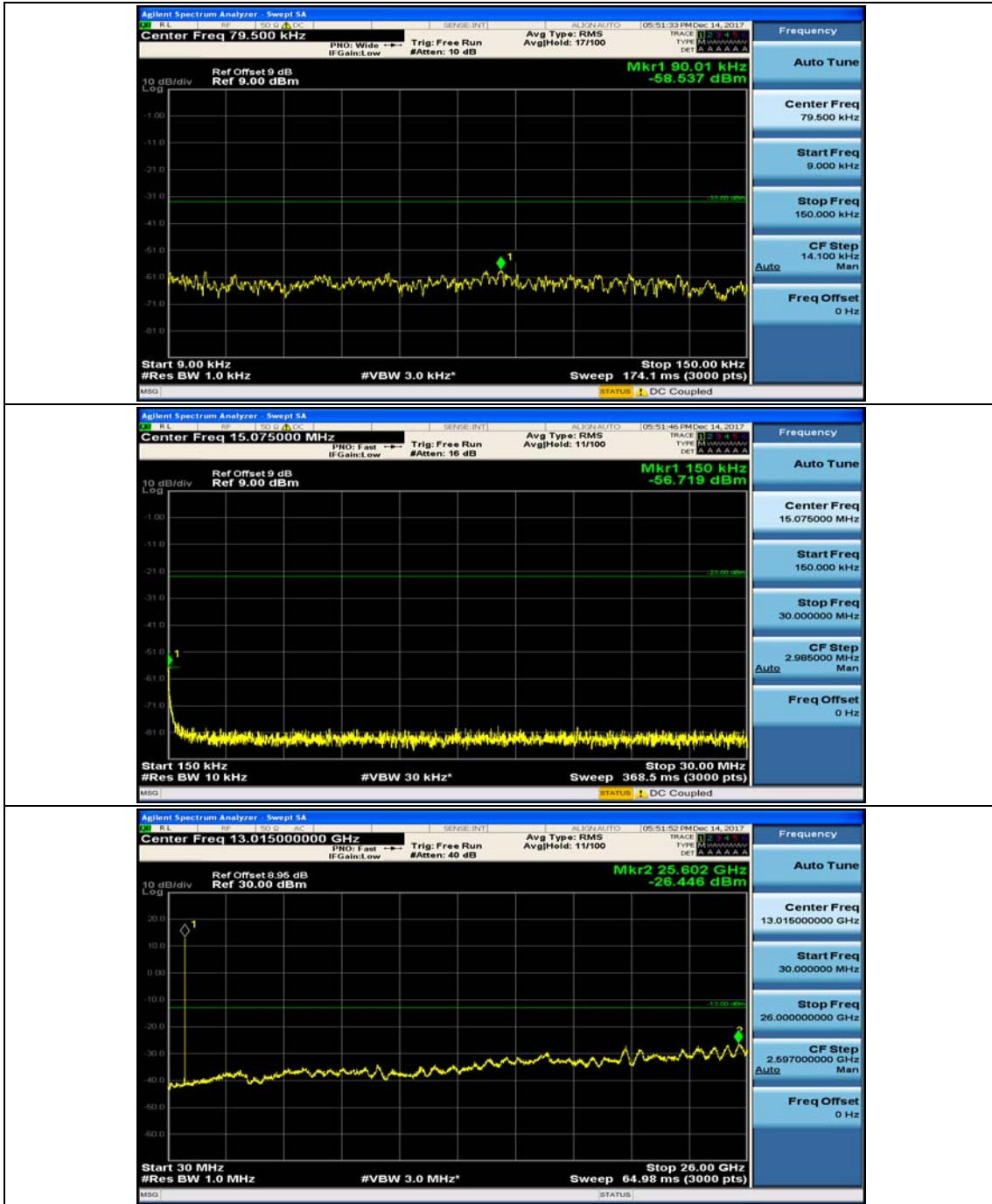


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

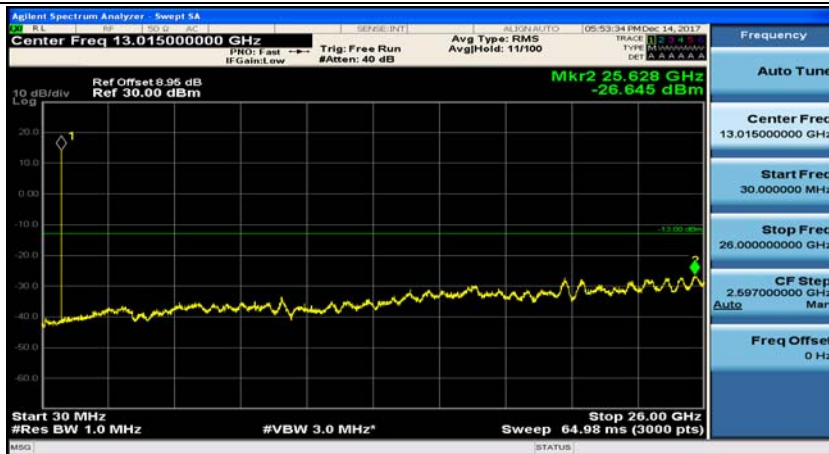
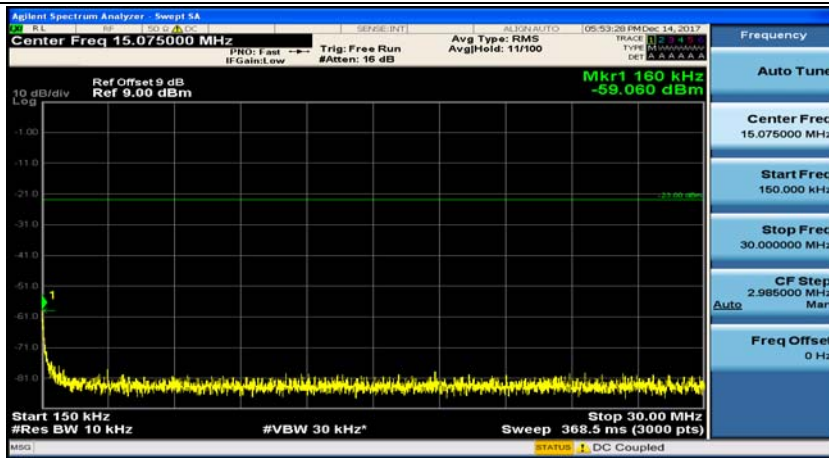
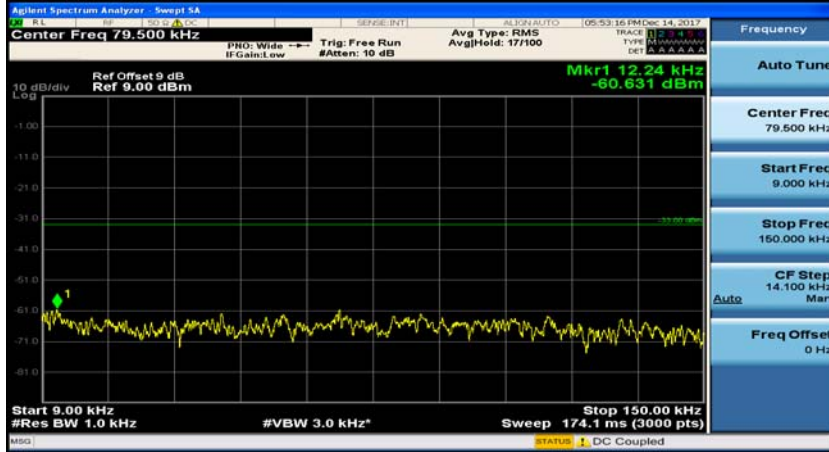


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

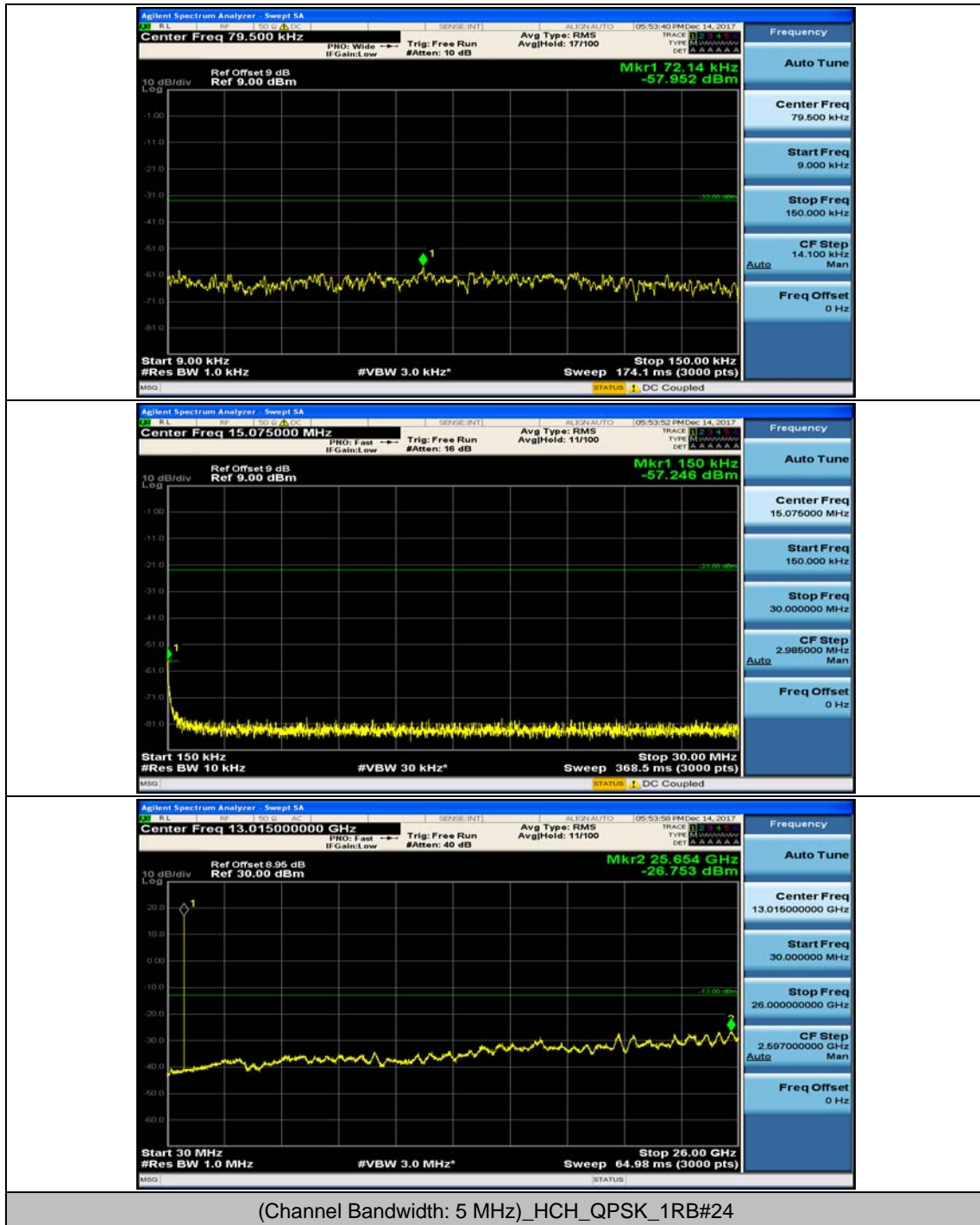


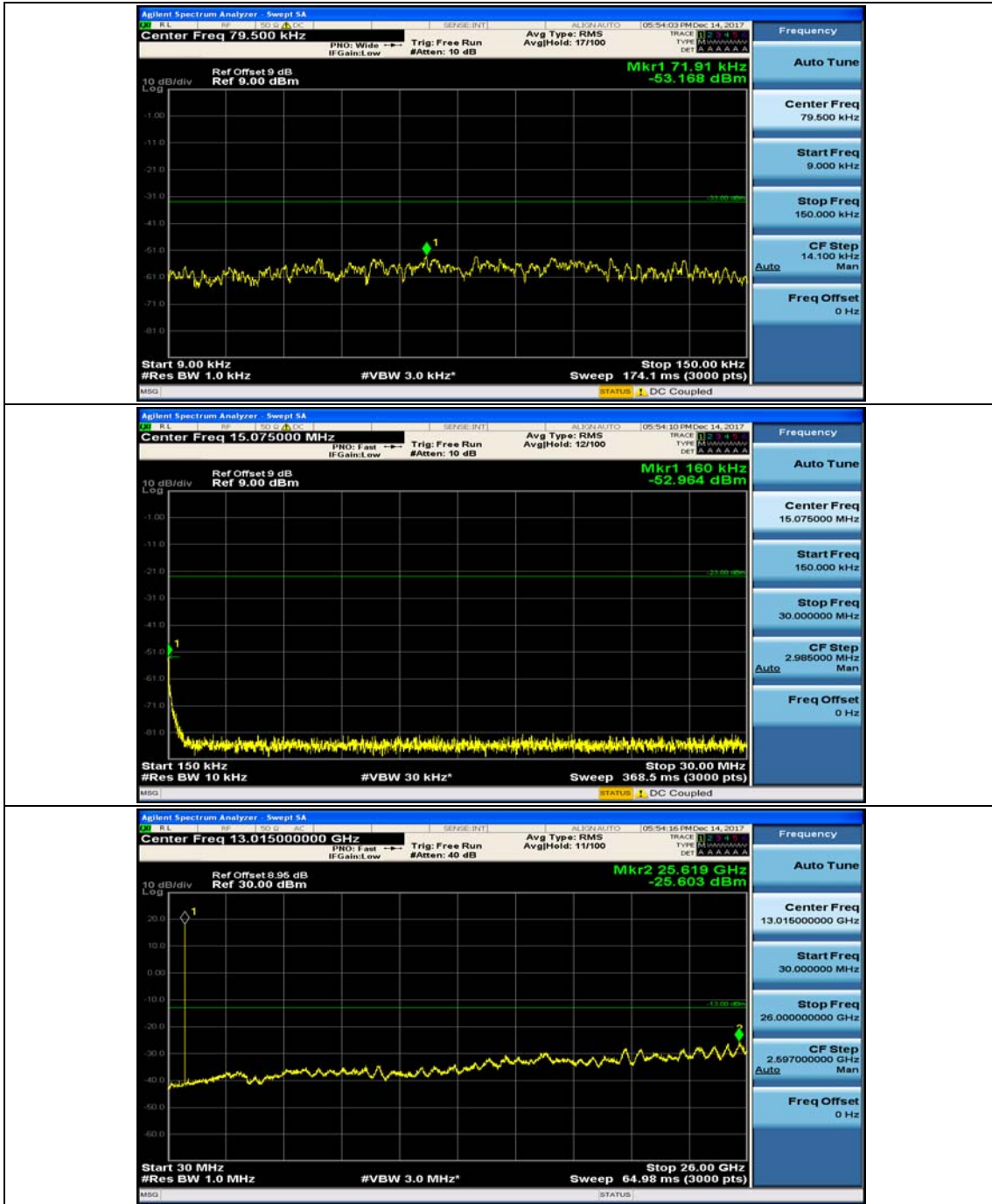


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

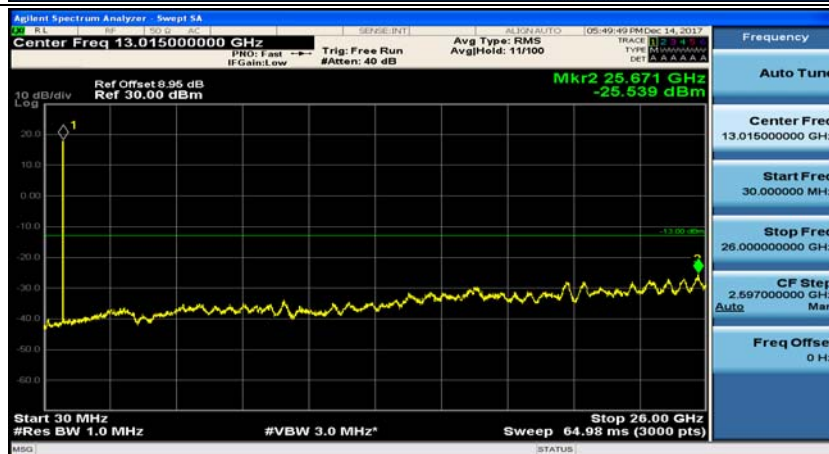


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

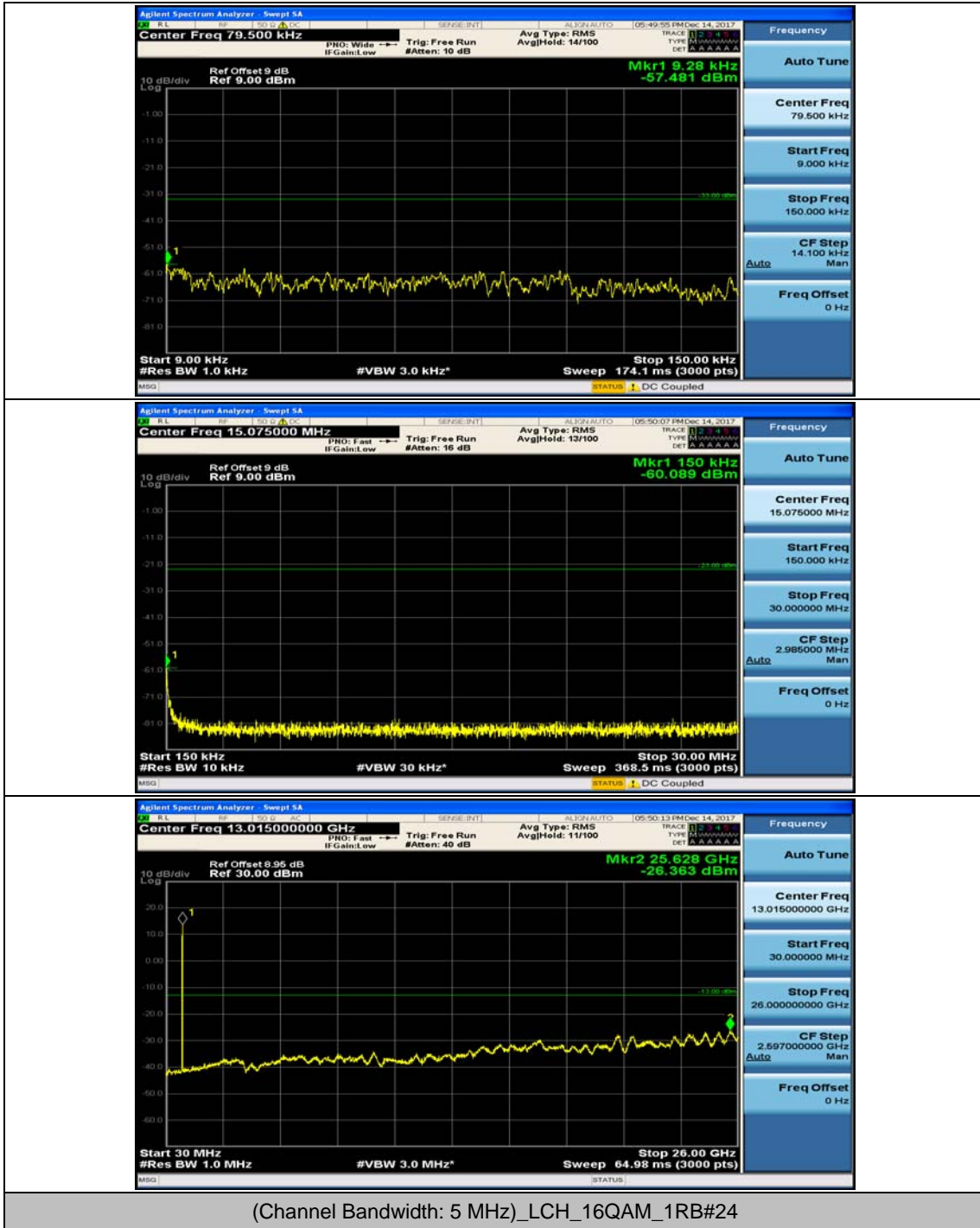


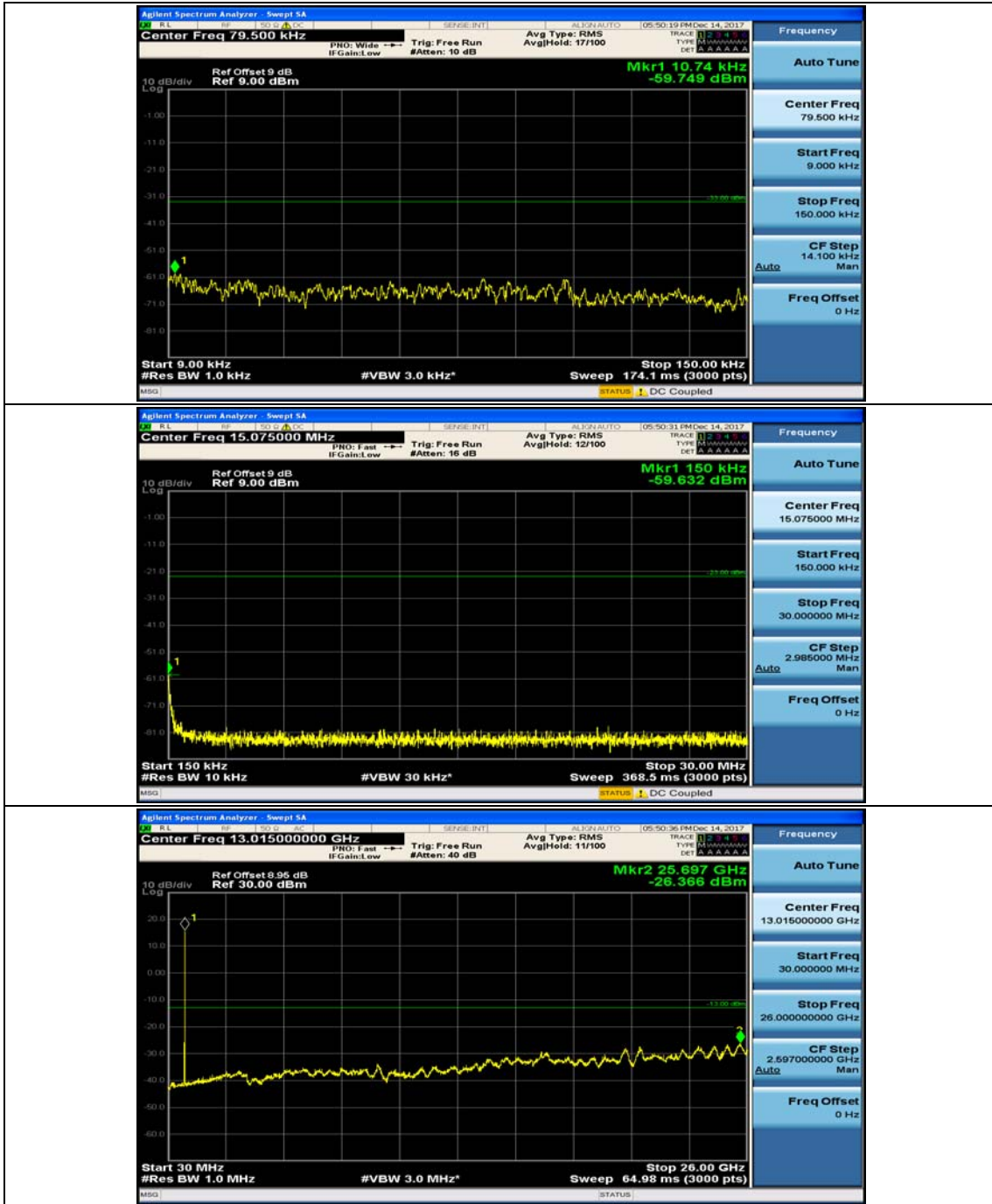


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

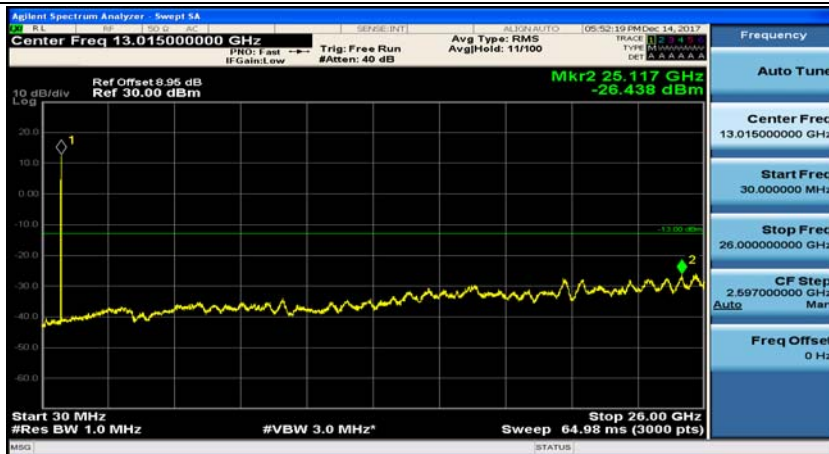
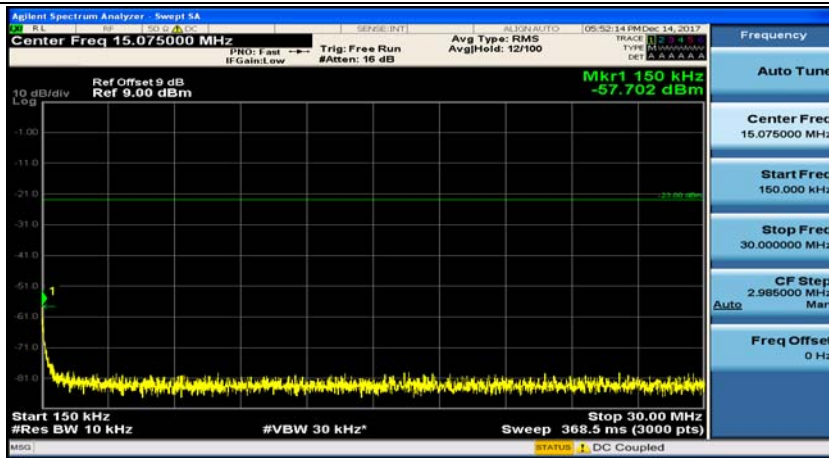
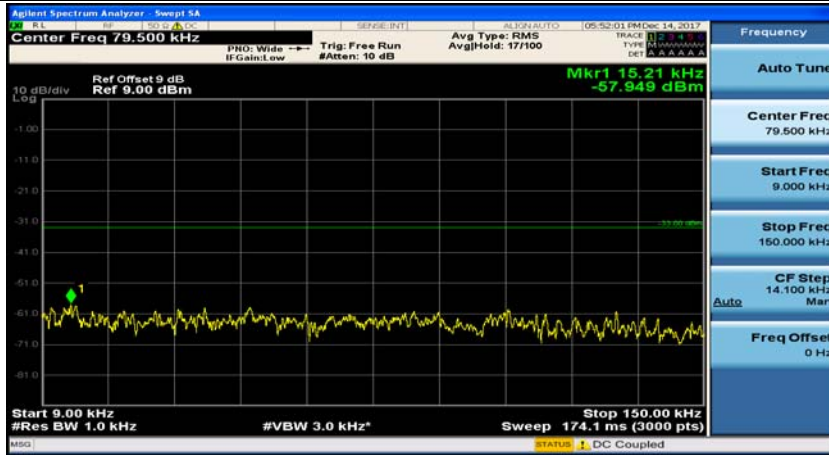


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

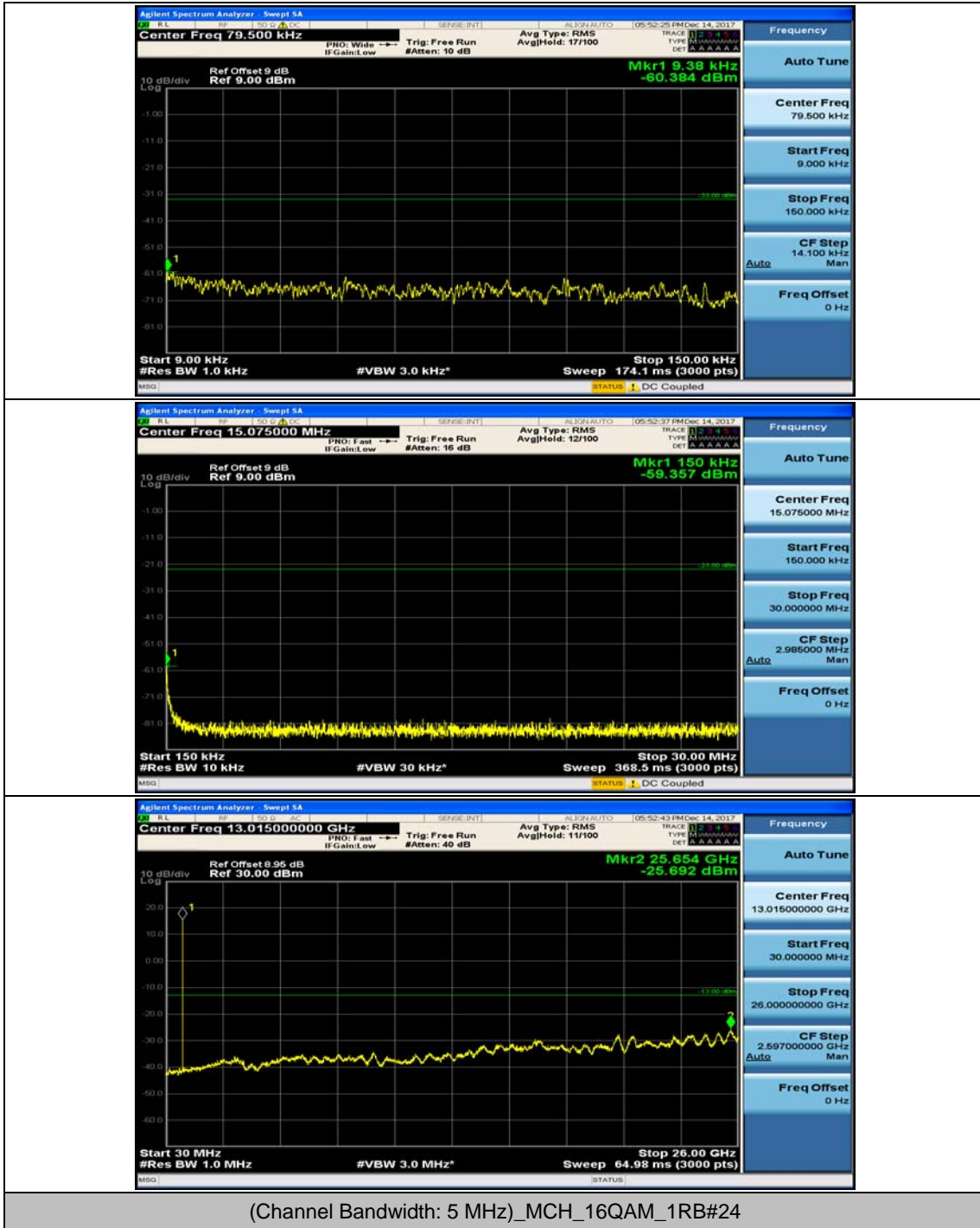


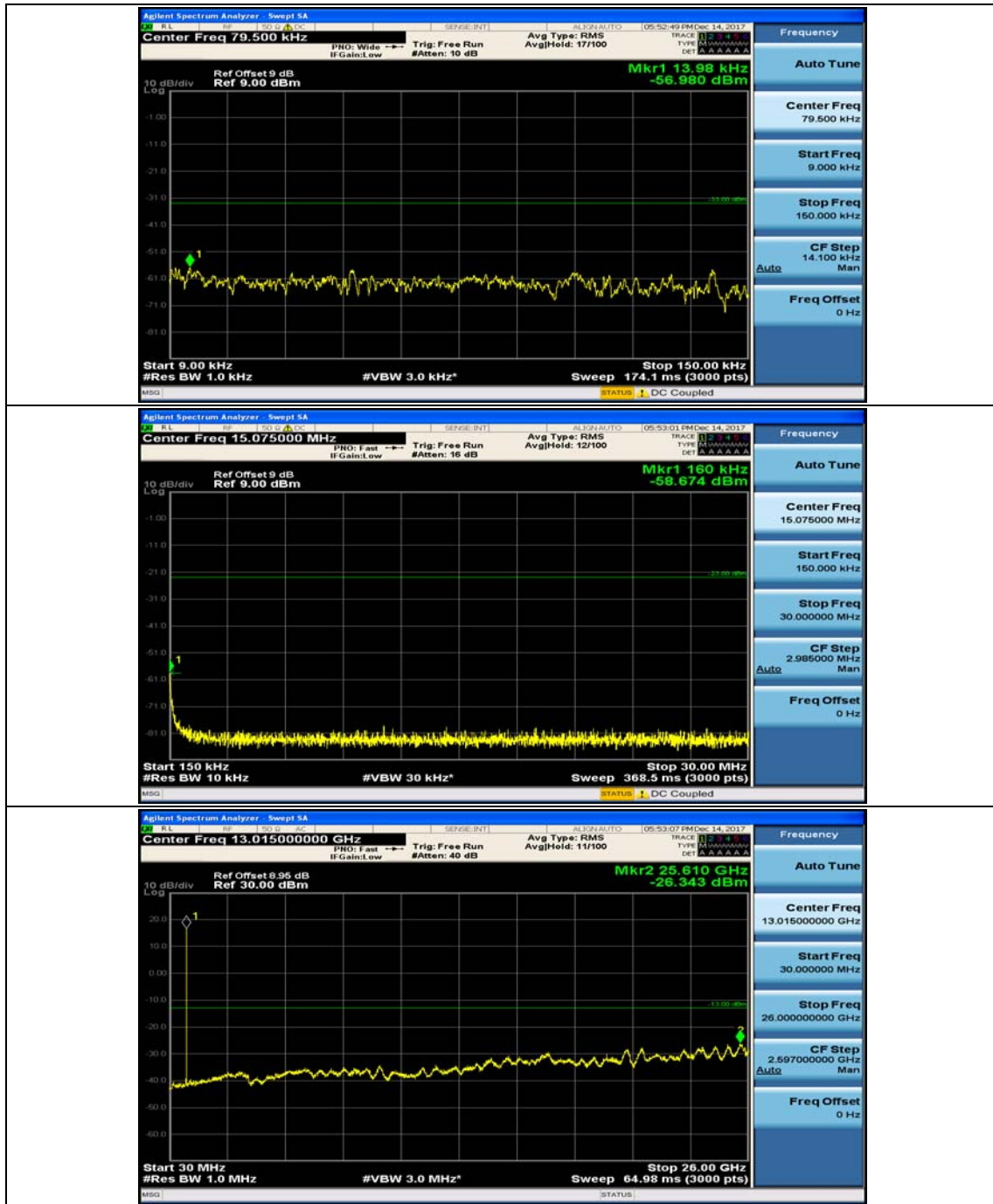


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

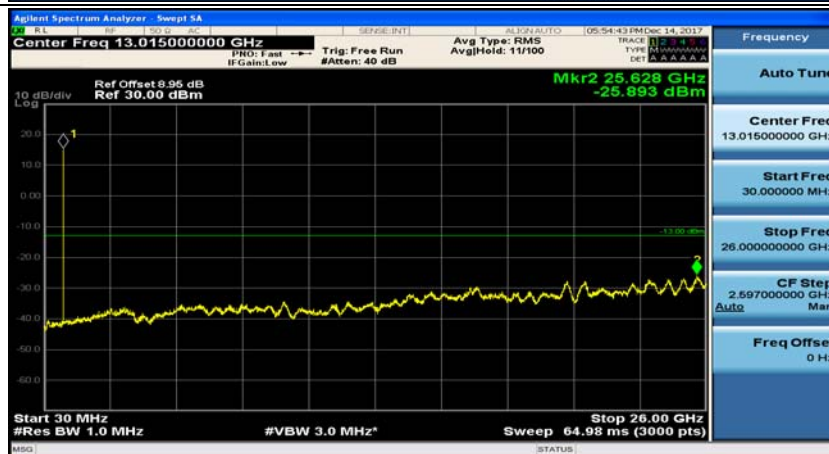
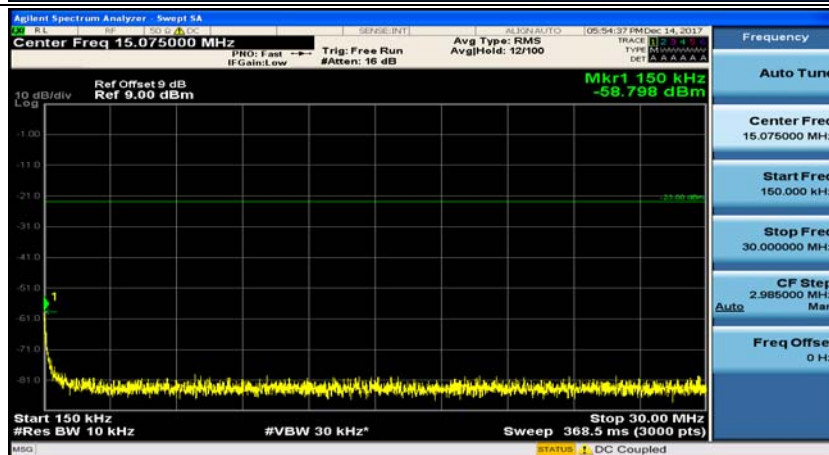
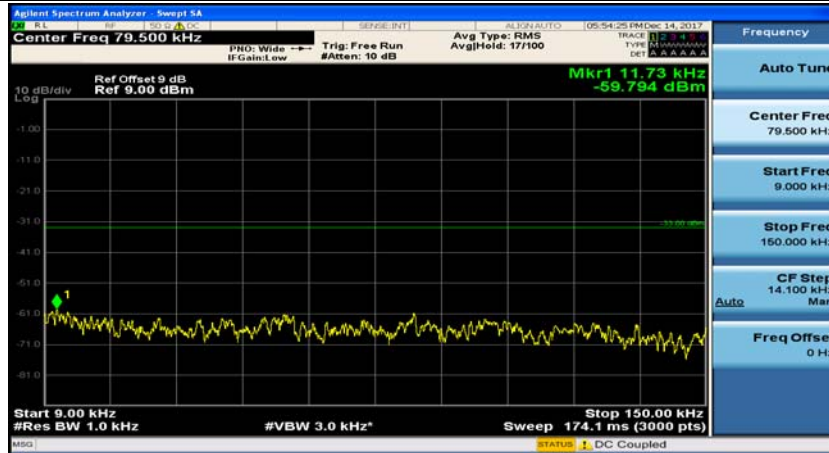


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

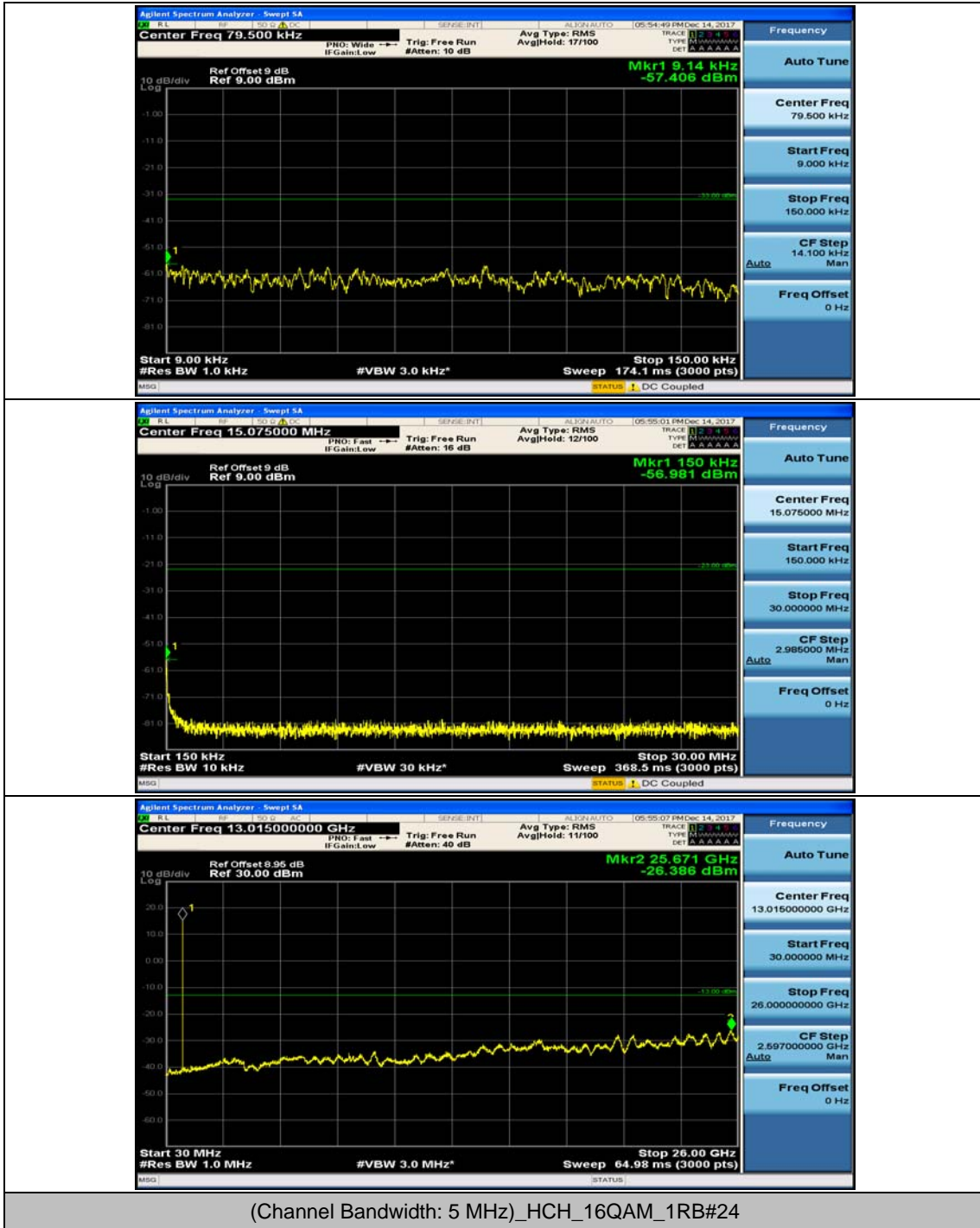


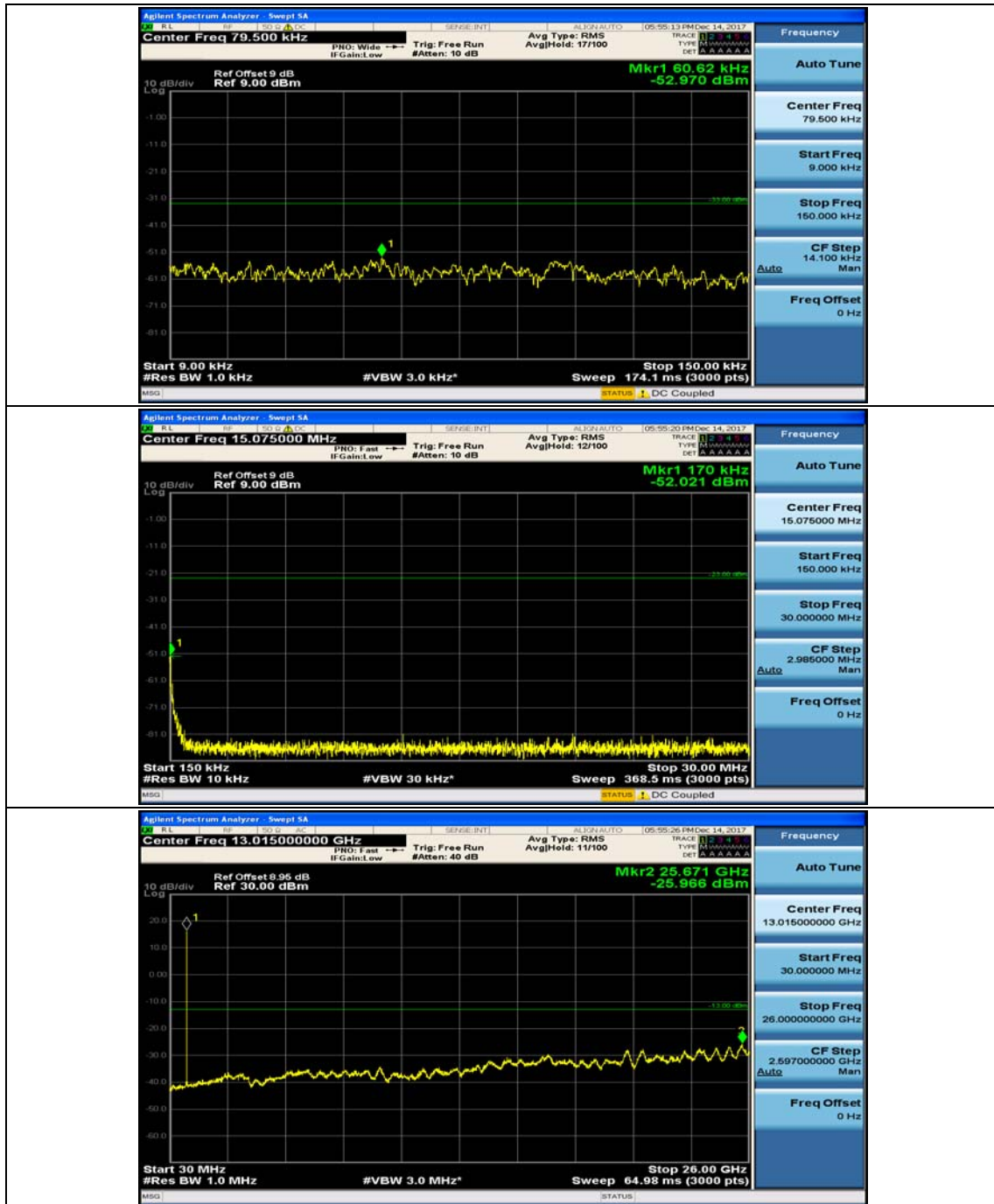


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

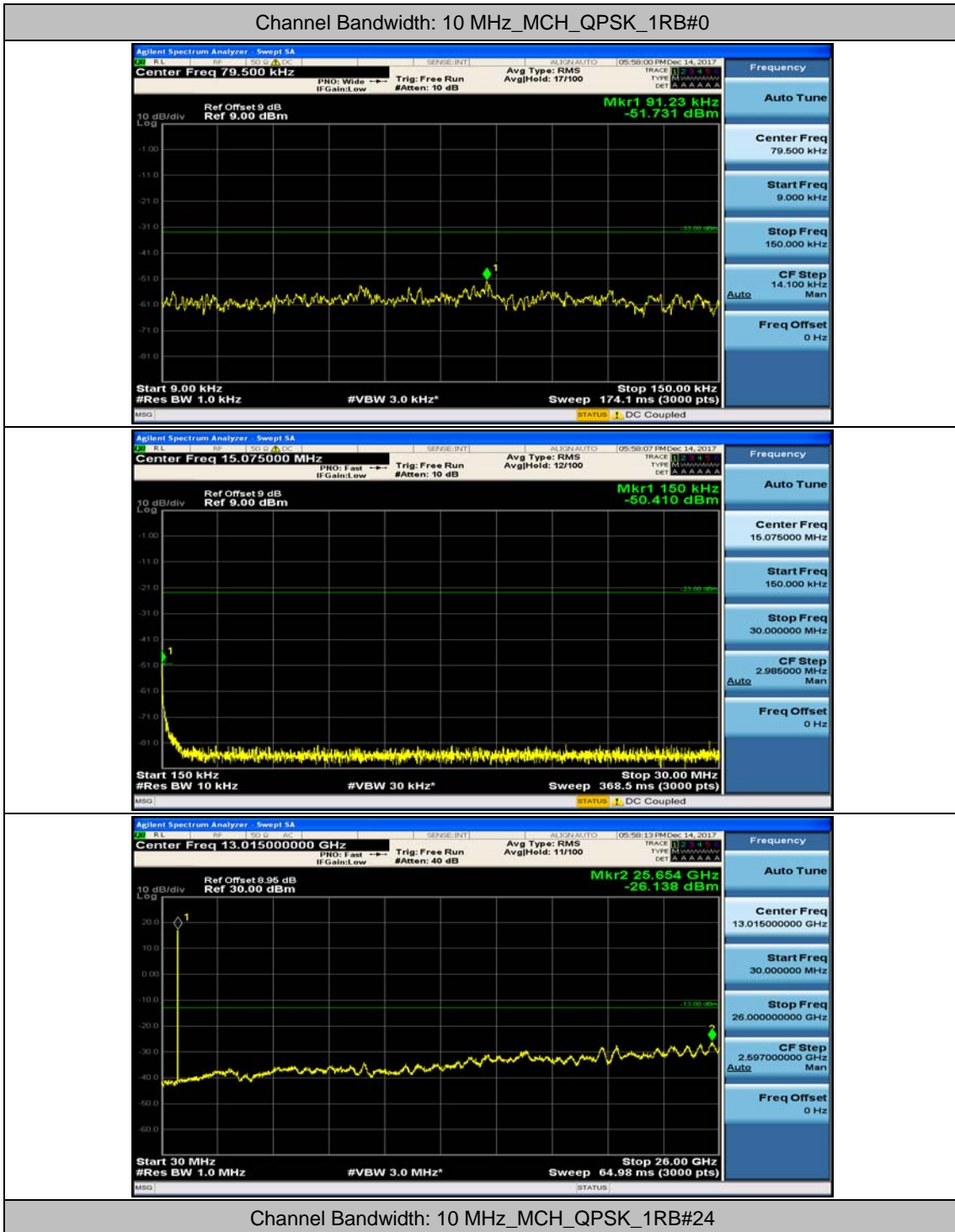


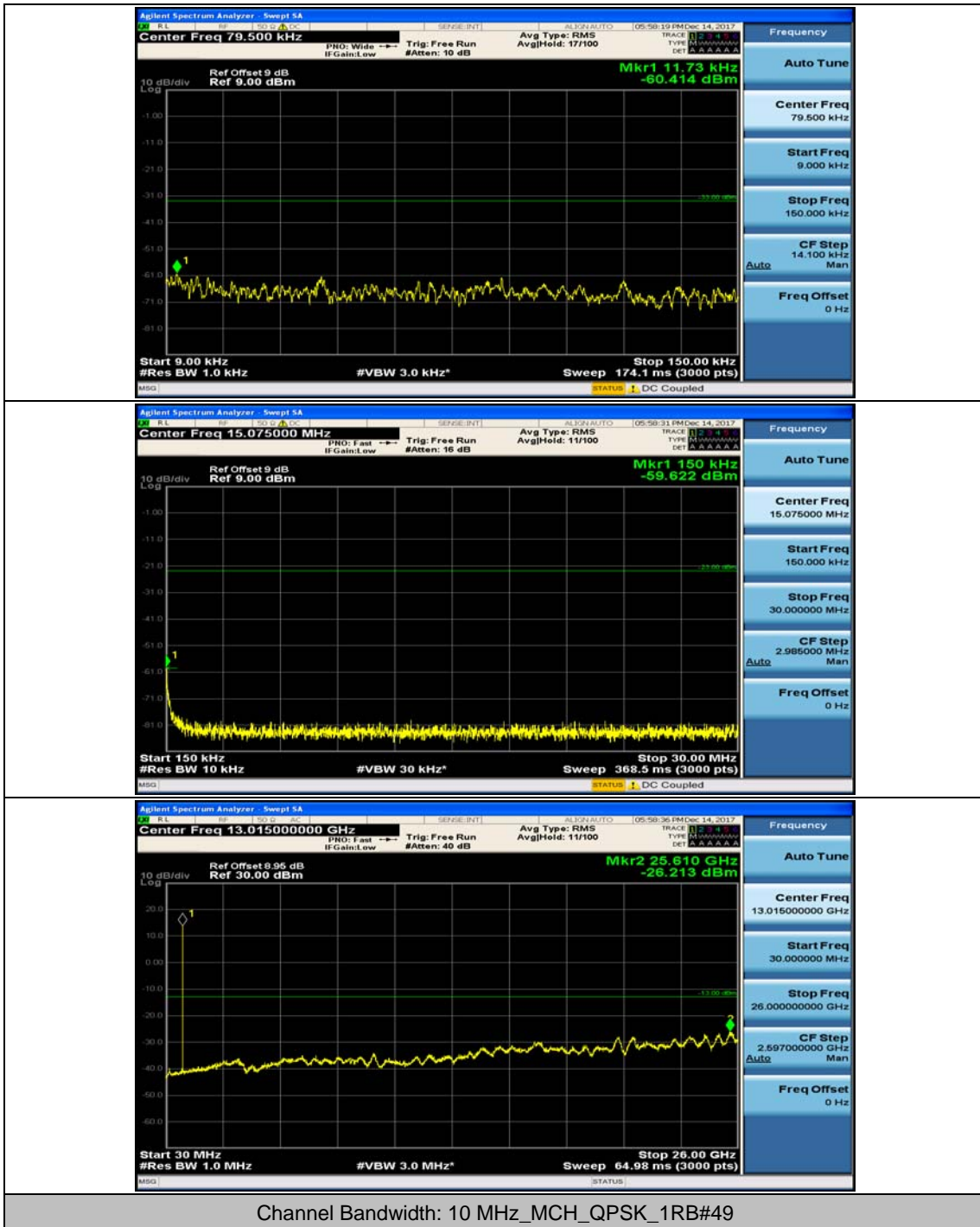
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

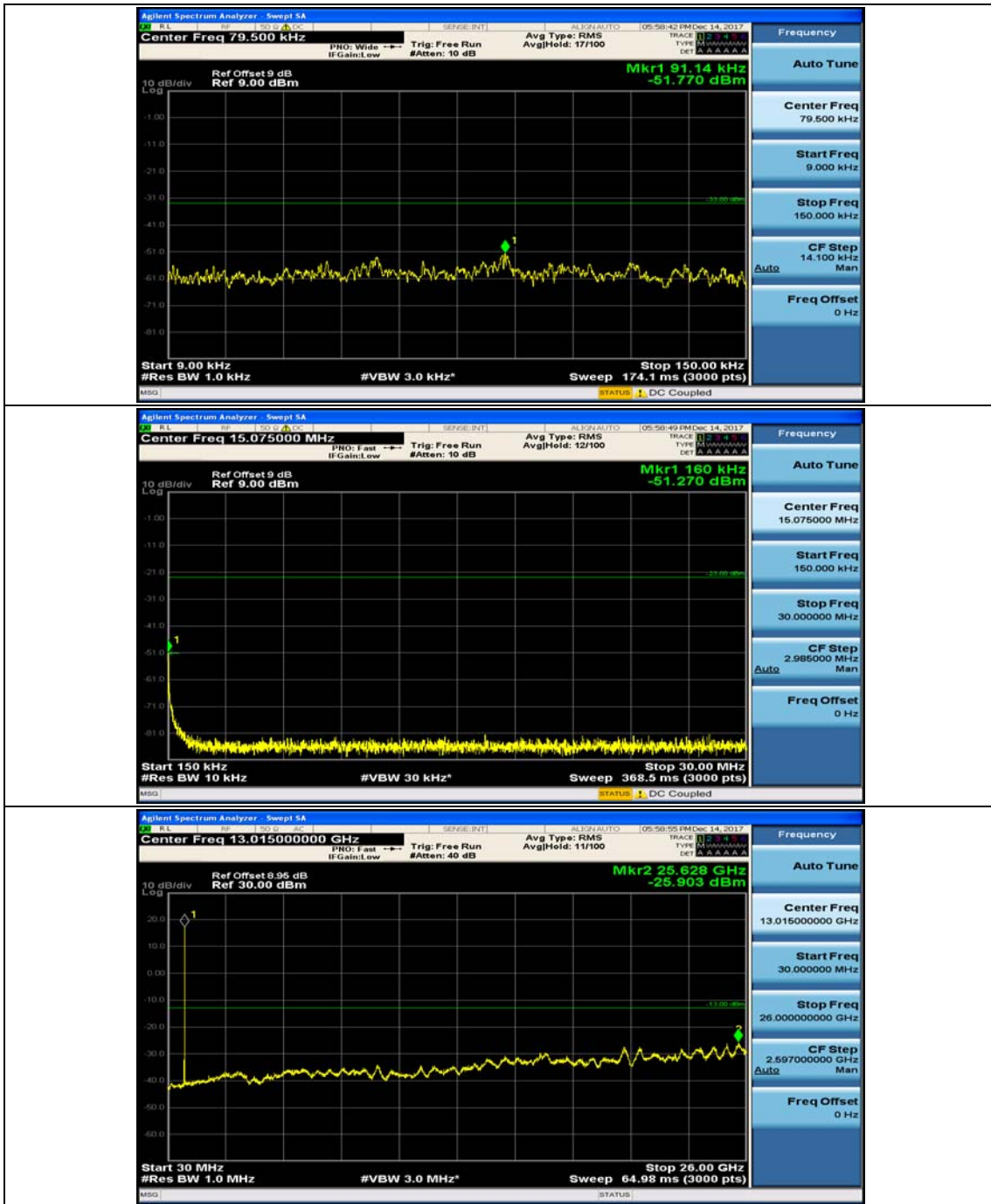




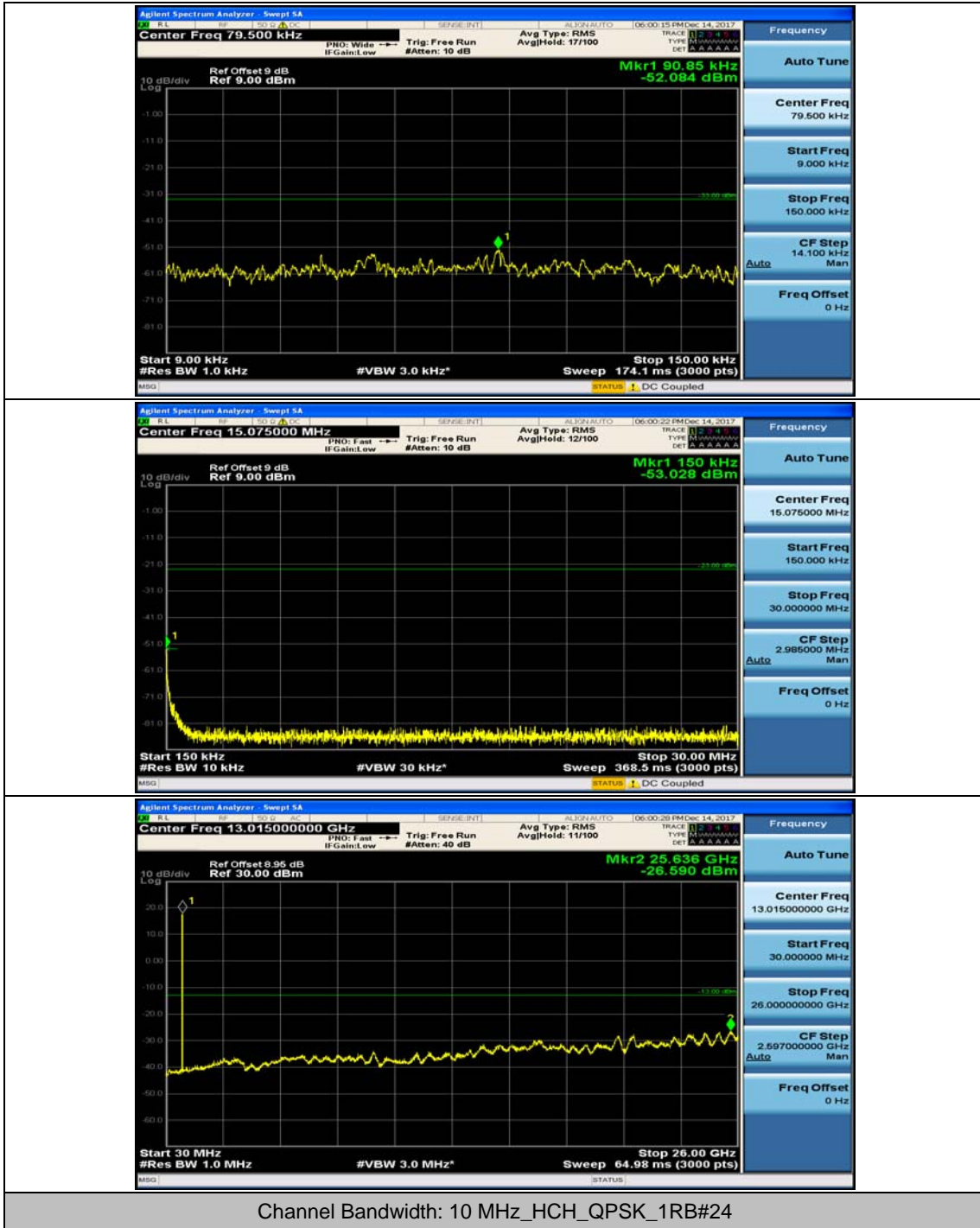
Channel Bandwidth: 10 MHz

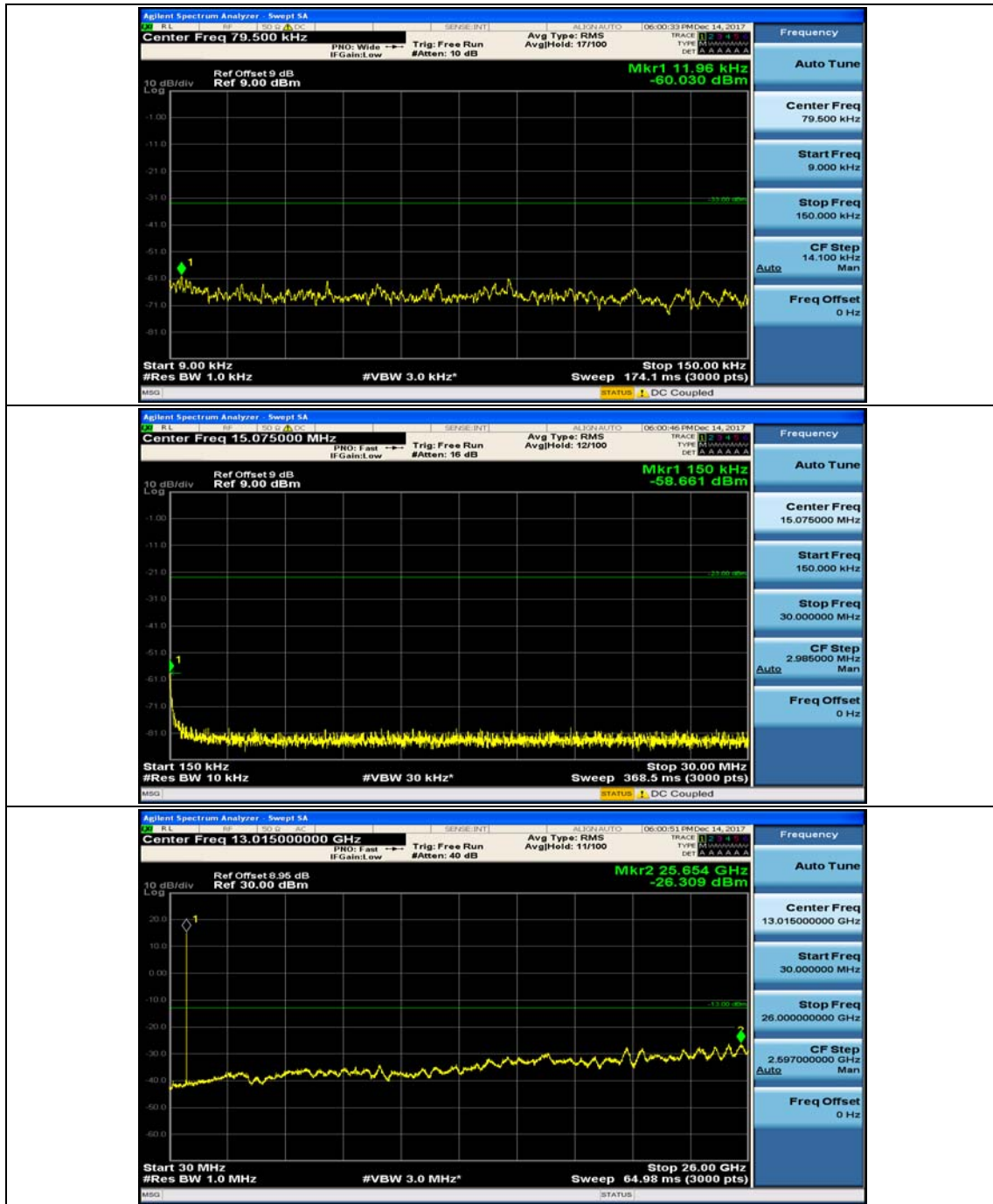




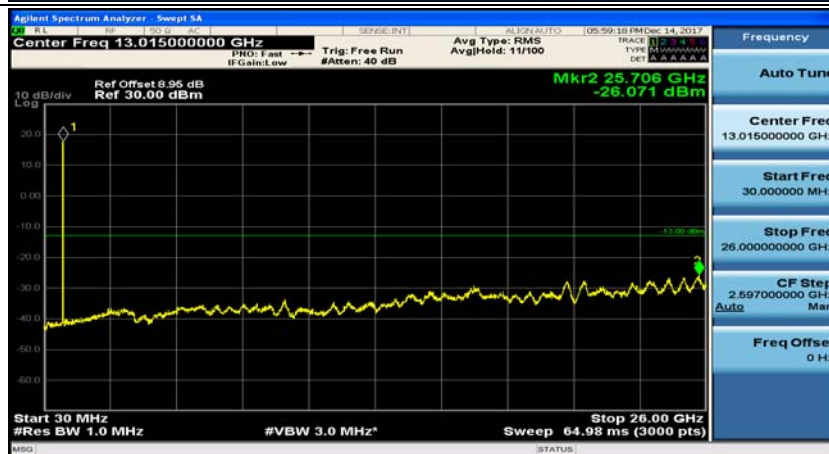
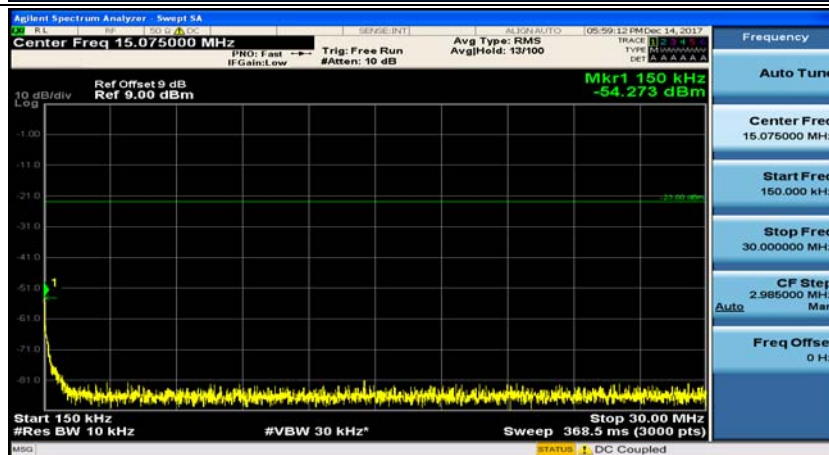
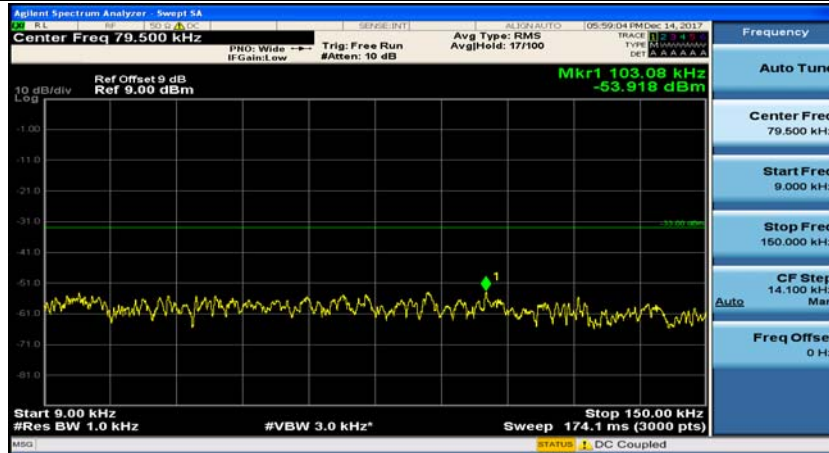


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

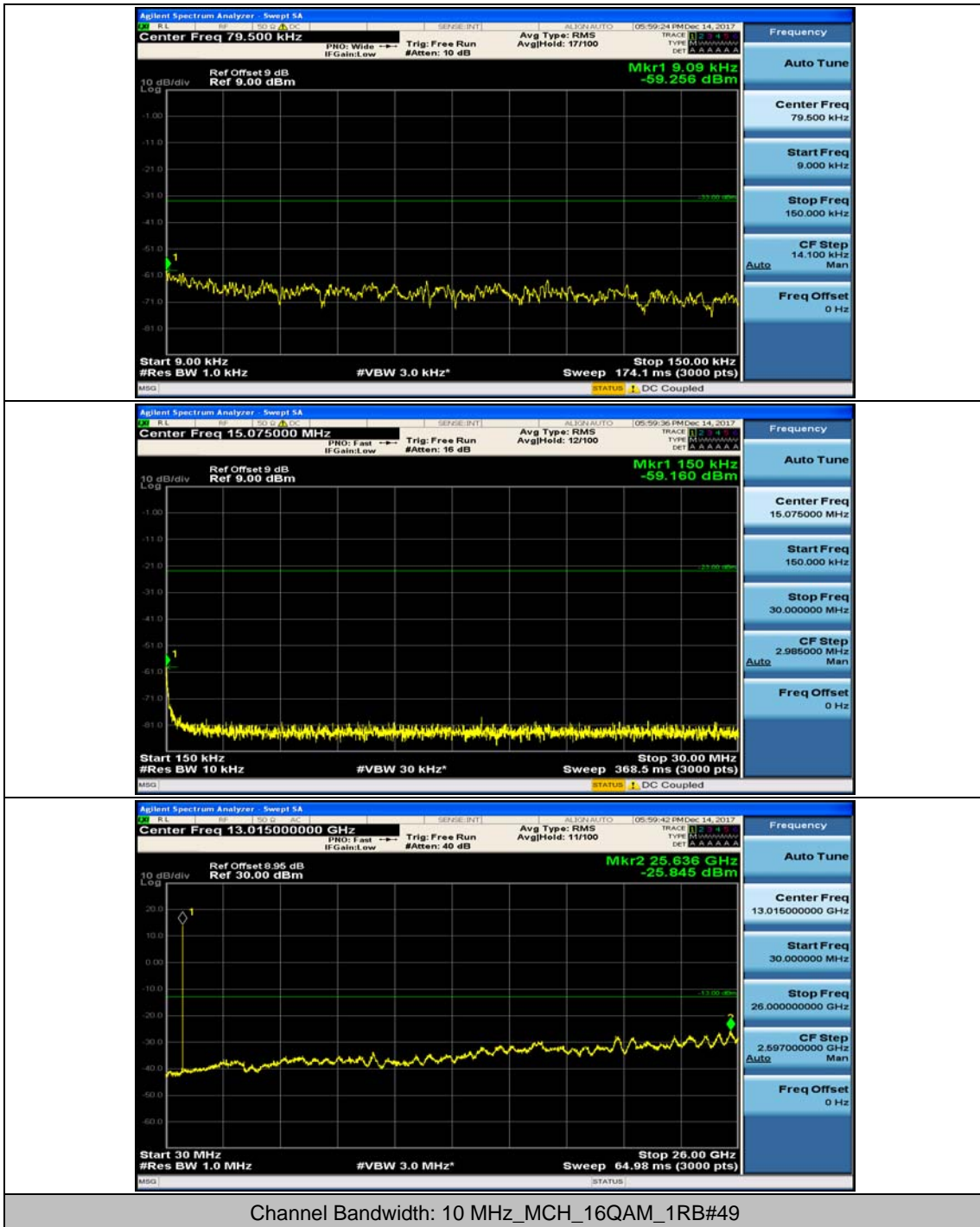


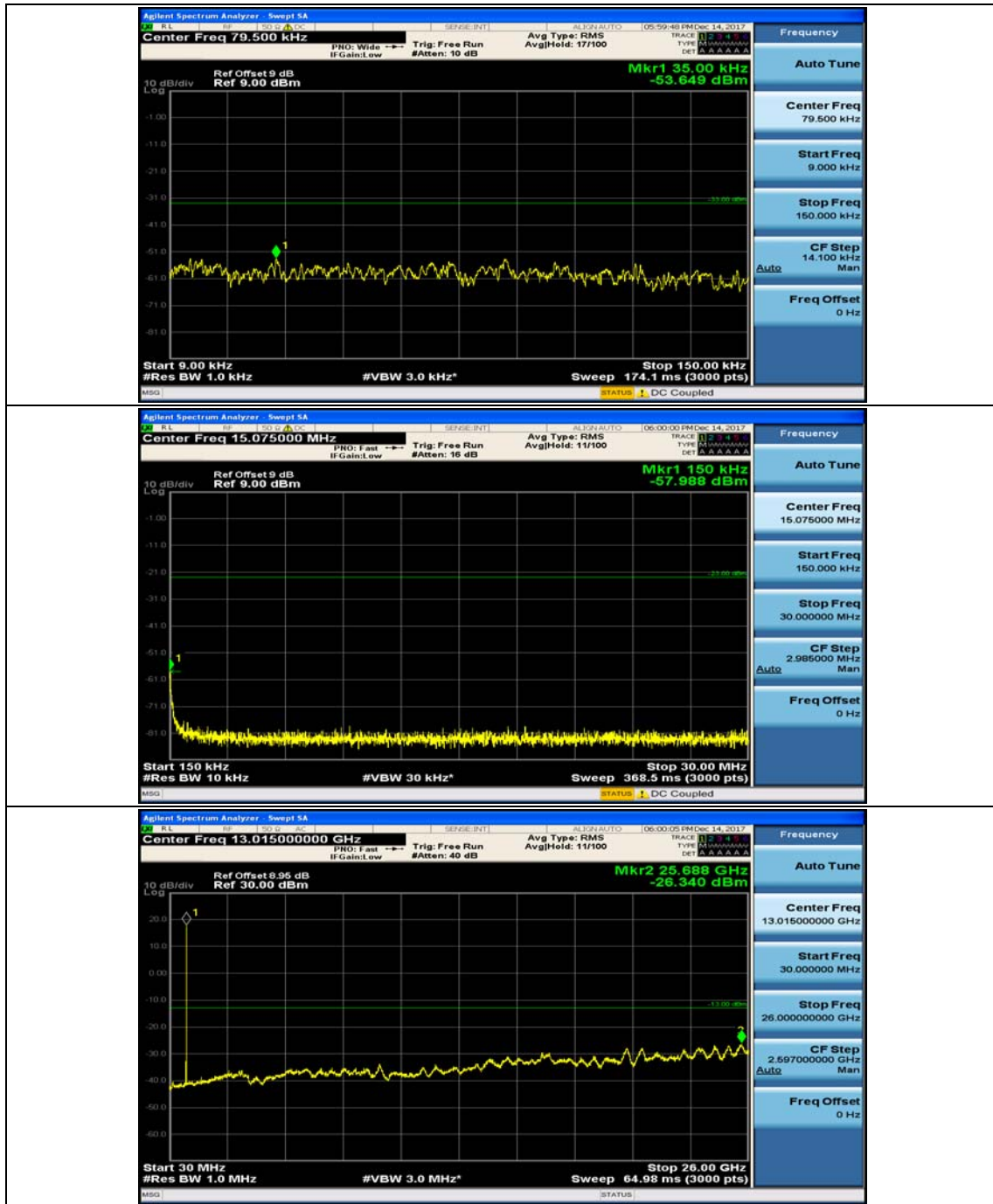


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24





Appendix F: Frequency Stability

Test Result

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	3.48	0.004464	± 2.5	PASS
		VN	TN	-1.62	-0.002078	± 2.5	PASS
		VH	TN	-1.85	-0.002373	± 2.5	PASS
	MCH	VL	TN	-1.5	-0.001910	± 2.5	PASS
		VN	TN	-0.08	-0.000102	± 2.5	PASS
		VH	TN	-1.72	-0.002190	± 2.5	PASS
	HCH	VL	TN	-0.27	-0.000345	± 2.5	PASS
		VN	TN	2.24	0.002863	± 2.5	PASS
		VH	TN	1.59	0.002032	± 2.5	PASS
16QAM	LCH	VL	TN	2.05	0.002630	± 2.5	PASS
		VN	TN	0.48	0.000616	± 2.5	PASS
		VH	TN	2.14	0.002745	± 2.5	PASS
	MCH	VL	TN	4.41	0.005614	± 2.5	PASS
		VN	TN	-0.3	-0.000382	± 2.5	PASS
		VH	TN	3.96	0.005041	± 2.5	PASS
	HCH	VL	TN	2.48	0.003169	± 2.5	PASS
		VN	TN	-1	-0.001278	± 2.5	PASS
		VH	TN	-0.46	-0.000588	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.88	-0.001129	± 2.5	PASS
		VN	-20	1.04	0.001334	± 2.5	PASS
		VN	-10	0.93	0.001193	± 2.5	PASS
		VN	0	1.05	0.001347	± 2.5	PASS
		VN	10	-0.14	-0.000180	± 2.5	PASS
		VN	20	0.2	0.000257	± 2.5	PASS
		VN	30	0.05	0.000064	± 2.5	PASS
		VN	40	3.91	0.005016	± 2.5	PASS
		VN	50	-0.69	-0.000885	± 2.5	PASS
	MCH	VN	-30	-1.27	-0.001617	± 2.5	PASS
		VN	-20	-1.87	-0.002381	± 2.5	PASS
		VN	-10	2.57	0.003272	± 2.5	PASS

	VN	0	-1.46	-0.001859	± 2.5	PASS			
		10	-0.06	-0.000076	± 2.5	PASS			
		20	4.32	0.005500	± 2.5	PASS			
		30	2.61	0.003323	± 2.5	PASS			
		40	0.68	0.000866	± 2.5	PASS			
		50	-1.58	-0.002011	± 2.5	PASS			
	HCH	VN	-30	-0.76	-0.000971	± 2.5	PASS		
		VN	-20	2.46	0.003144	± 2.5	PASS		
		VN	-10	0.25	0.000319	± 2.5	PASS		
		VN	0	-0.05	-0.000064	± 2.5	PASS		
		VN	10	1.27	0.001623	± 2.5	PASS		
		VN	20	0.75	0.000958	± 2.5	PASS		
		VN	30	-0.35	-0.000447	± 2.5	PASS		
		VN	40	1.62	0.002070	± 2.5	PASS		
		VN	50	3.51	0.004486	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.42	0.003105	± 2.5	PASS
				VN	-20	3.94	0.005055	± 2.5	PASS
				VN	-10	1.29	0.001655	± 2.5	PASS
VN	0			2.85	0.003656	± 2.5	PASS		
VN	10			0.43	0.000552	± 2.5	PASS		
VN	20			0.07	0.000090	± 2.5	PASS		
VN	30			4.02	0.005157	± 2.5	PASS		
VN	40			4.31	0.005529	± 2.5	PASS		
VN	50			-1.96	-0.002514	± 2.5	PASS		
MCH	VN		-30	3.41	0.004341	± 2.5	PASS		
	VN		-20	3.87	0.004927	± 2.5	PASS		
	VN		-10	4.94	0.006289	± 2.5	PASS		
	VN		0	-0.25	-0.000318	± 2.5	PASS		
	VN		10	4.3	0.005474	± 2.5	PASS		
	VN		20	-0.16	-0.000204	± 2.5	PASS		
	VN		30	-1.41	-0.001795	± 2.5	PASS		
	VN		40	2.58	0.003285	± 2.5	PASS		
	VN		50	1.36	0.001731	± 2.5	PASS		
HCH	VN		-30	2.68	0.003425	± 2.5	PASS		
	VN		-20	-1.48	-0.001891	± 2.5	PASS		
	VN		-10	-1.88	-0.002403	± 2.5	PASS		
	VN		0	2.64	0.003374	± 2.5	PASS		
	VN		10	-1.98	-0.002530	± 2.5	PASS		
	VN		20	-1.14	-0.001457	± 2.5	PASS		
	VN		30	-1.71	-0.002185	± 2.5	PASS		
	VN		40	1.42	0.001815	± 2.5	PASS		

		VN	50	4.58	0.005853	± 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	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
	MCH	VL	TN	-0.45	-0.000575	± 2.5	PASS
		VN	TN	0.97	0.001239	± 2.5	PASS
		VH	TN	1.27	0.001622	± 2.5	PASS
	HCH	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
16QAM	LCH	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
	MCH	VL	TN	-1.13	-0.001443	± 2.5	PASS
		VN	TN	-0.06	-0.000077	± 2.5	PASS
		VH	TN	0.54	0.000690	± 2.5	PASS
	HCH	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
	MCH	VN	-30	-0.68	-0.000868	± 2.5	PASS
		VN	-20	1.94	0.002478	± 2.5	PASS
		VN	-10	-0.1	-0.000128	± 2.5	PASS
		VN	0	3.87	0.004943	± 2.5	PASS

	VN	10	2.89	0.003691	± 2.5	PASS	
		20	-0.57	-0.000728	± 2.5	PASS	
		30	0.52	0.000664	± 2.5	PASS	
		40	3.05	0.003895	± 2.5	PASS	
		50	2.41	0.003078	± 2.5	PASS	
	HCH	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
QPSK	LCH	/	/	/	/	/	
		/	/	/	/	/	
		/	/	/	/	/	
		/	/	/	/	/	
		/	/	/	/	/	
		/	/	/	/	/	
		/	/	/	/	/	
		/	/	/	/	/	
	MCH	VN	-30	0.8	0.001018	± 2.5	PASS
		VN	-20	2.74	0.003488	± 2.5	PASS
		VN	-10	0.99	0.001260	± 2.5	PASS
		VN	0	0.89	0.001133	± 2.5	PASS
		VN	10	3.37	0.004290	± 2.5	PASS
		VN	20	0.17	0.000216	± 2.5	PASS
		VN	30	2.01	0.002559	± 2.5	PASS
		VN	40	3.45	0.004392	± 2.5	PASS
		VN	50	0.36	0.000458	± 2.5	PASS
	HCH	/	/	/	/	/	/
		/	/	/	/	/	/
		/	/	/	/	/	/
/		/	/	/	/	/	
/		/	/	/	/	/	
/		/	/	/	/	/	
/		/	/	/	/	/	
/		/	/	/	/	/	