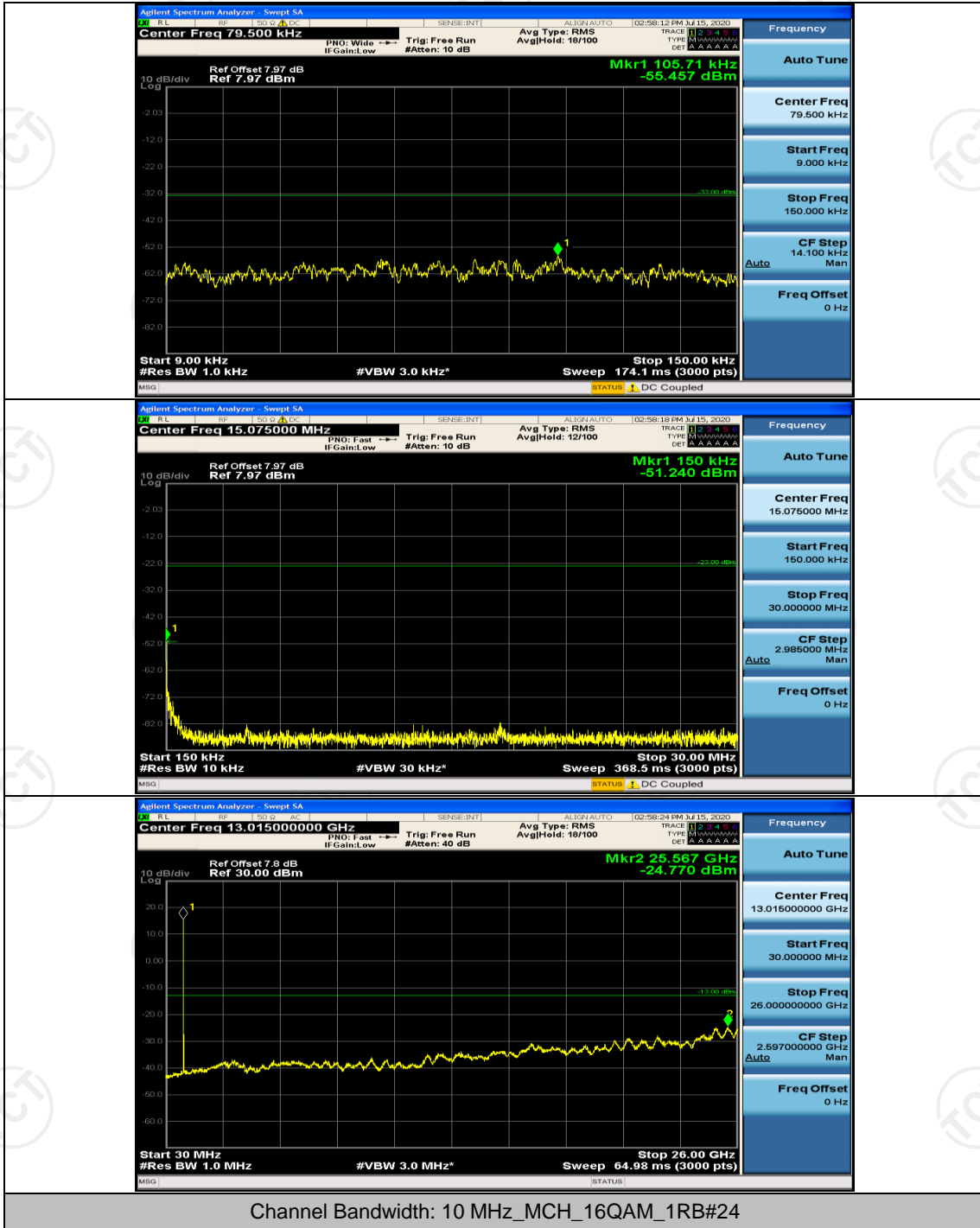
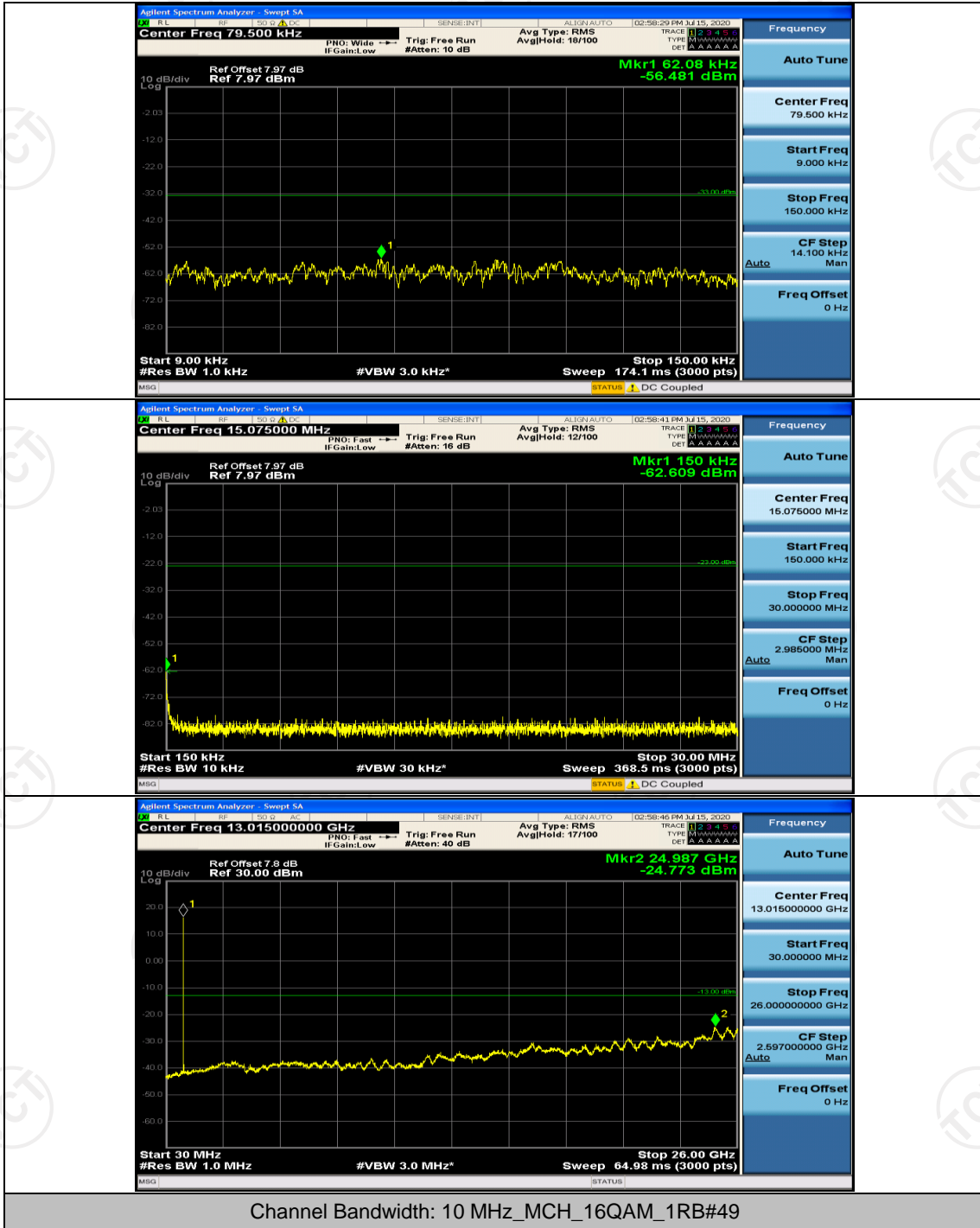
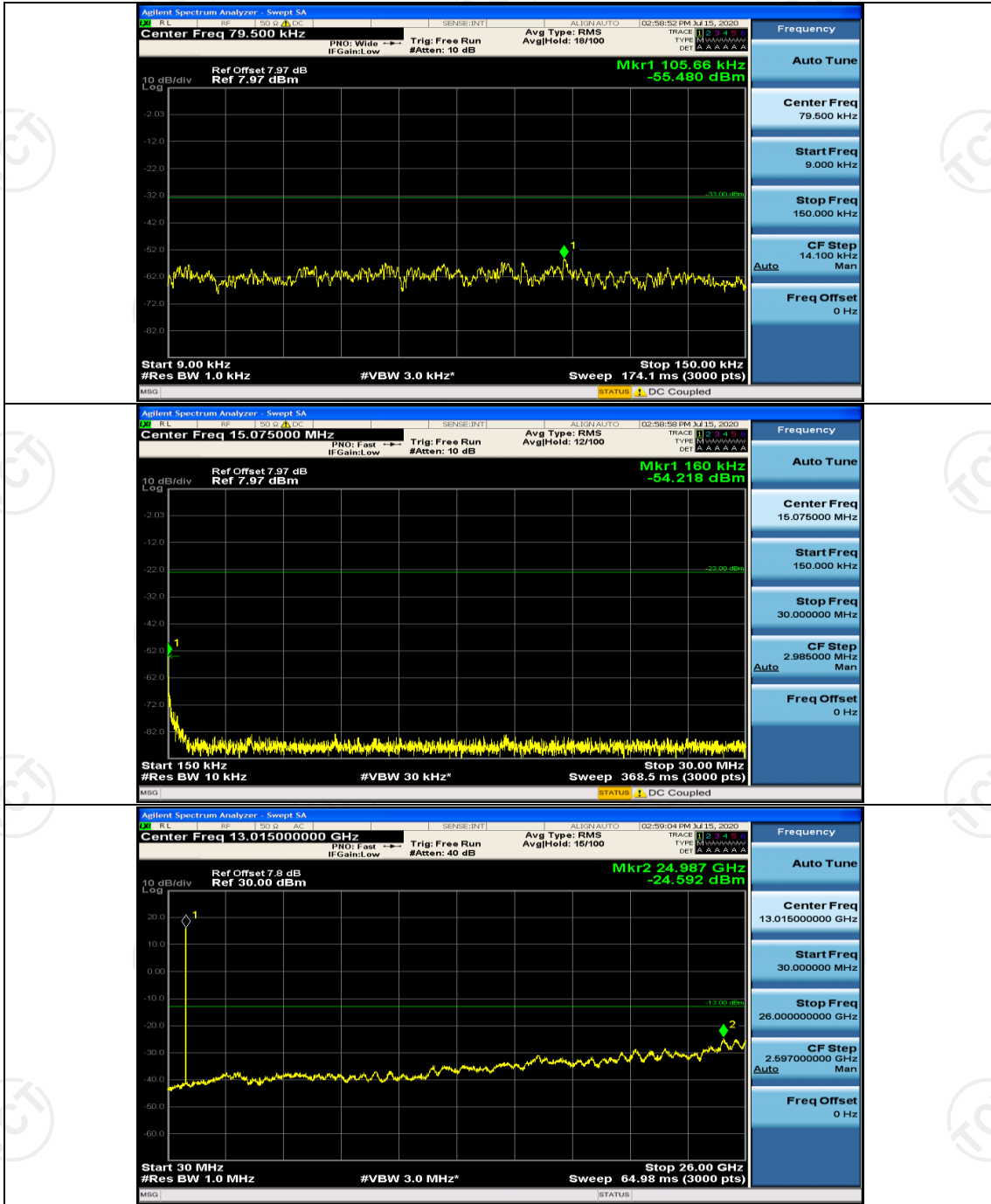


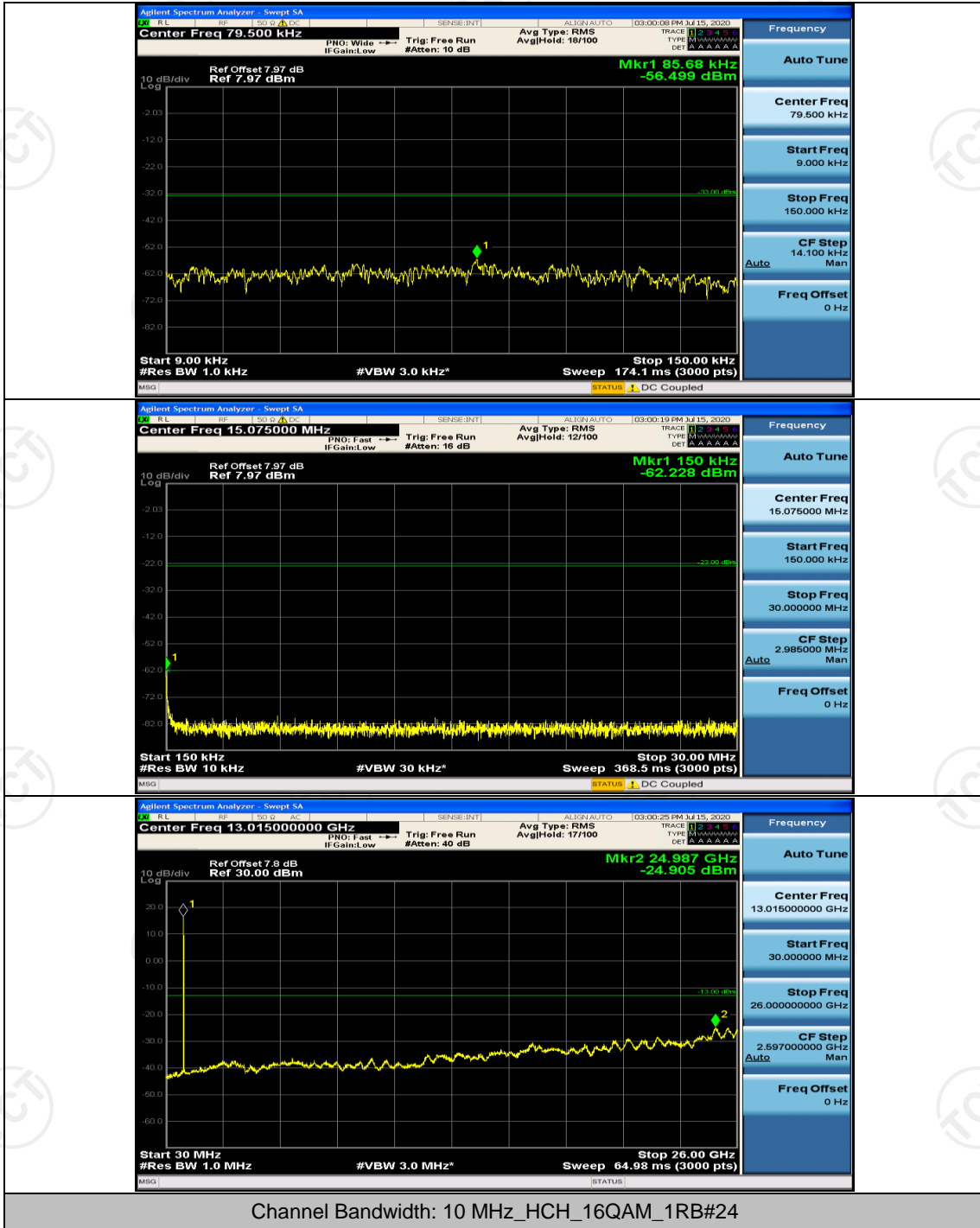
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

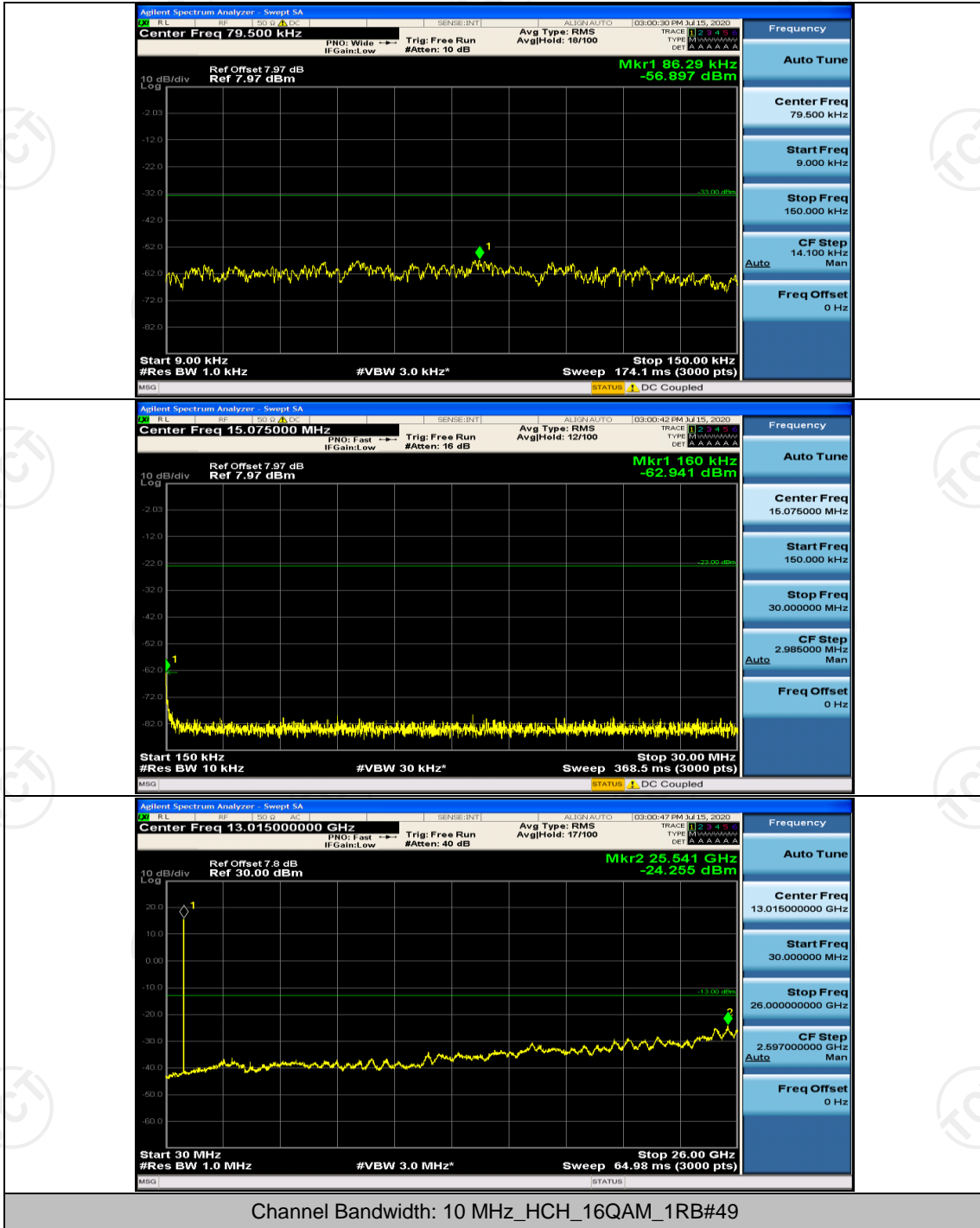


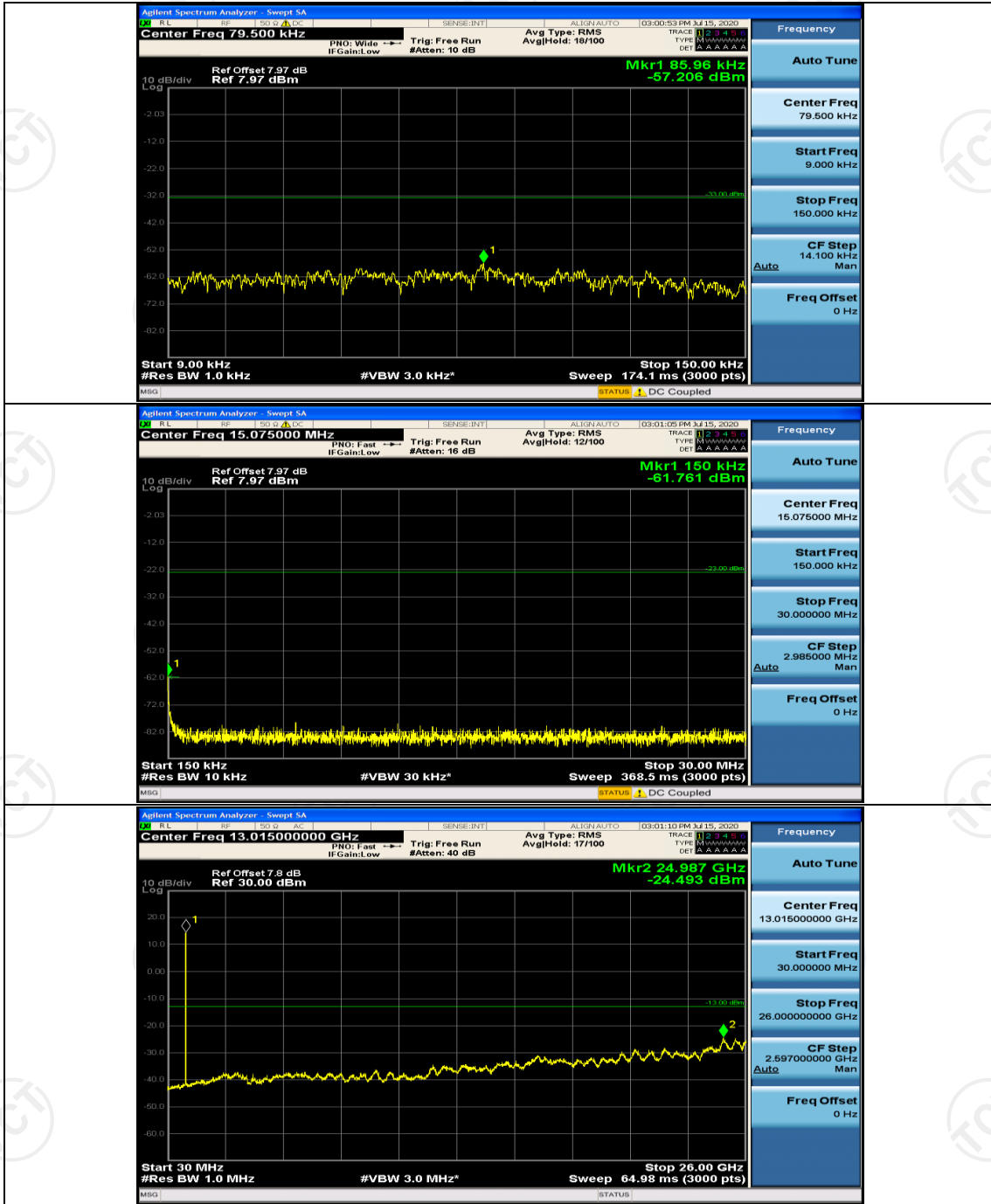




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0







Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.001565	± 2.5	PASS
		VN	TN	-0.002742	± 2.5	PASS
		VH	TN	-0.003644	± 2.5	PASS
	MCH	VL	TN	-0.001372	± 2.5	PASS
		VN	TN	-0.001693	± 2.5	PASS
		VH	TN	-0.002364	± 2.5	PASS
	HCH	VL	TN	-0.004423	± 2.5	PASS
		VN	TN	-0.002465	± 2.5	PASS
		VH	TN	-0.003145	± 2.5	PASS
16QAM	LCH	VL	TN	-0.003251	± 2.5	PASS
		VN	TN	-0.003366	± 2.5	PASS
		VH	TN	-0.002695	± 2.5	PASS
	MCH	VL	TN	-0.003174	± 2.5	PASS
		VN	TN	-0.003586	± 2.5	PASS
		VH	TN	-0.004538	± 2.5	PASS
	HCH	VL	TN	-0.006025	± 2.5	PASS
		VN	TN	-0.005227	± 2.5	PASS
		VH	TN	-0.003845	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.004757	± 2.5	PASS
		VN	-20	-0.001629	± 2.5	PASS
		VN	-10	-0.001956	± 2.5	PASS
		VN	0	-0.003059	± 2.5	PASS
		VN	10	-0.001245	± 2.5	PASS
		VN	20	-0.005411	± 2.5	PASS
		VN	30	0.004547	± 2.5	PASS
		VN	40	-0.004223	± 2.5	PASS
	MCH	VN	50	-0.006182	± 2.5	PASS
		VN	-30	-0.001664	± 2.5	PASS
		VN	-20	-0.004471	± 2.5	PASS
		VN	-10	-0.001143	± 2.5	PASS
		VN	0	-0.001127	± 2.5	PASS
		VN	10	-0.001472	± 2.5	PASS
VN	20	-0.005372	± 2.5	PASS		
VN	30	-0.007381	± 2.5	PASS		
VN	40	0.000145	± 2.5	PASS		

	HCH	VN	50	-0.003675	± 2.5	PASS
		VN	-30	-0.002463	± 2.5	PASS
		VN	-20	-0.000479	± 2.5	PASS
		VN	-10	-0.002574	± 2.5	PASS
		VN	0	-0.001367	± 2.5	PASS
		VN	10	-0.000778	± 2.5	PASS
		VN	20	-0.004510	± 2.5	PASS
		VN	30	-0.001828	± 2.5	PASS
		VN	40	-0.002443	± 2.5	PASS
		VN	50	-0.001424	± 2.5	PASS
16QAM	LCH	VN	-30	-0.004145	± 2.5	PASS
		VN	-20	-0.005037	± 2.5	PASS
		VN	-10	-0.001575	± 2.5	PASS
		VN	0	-0.002421	± 2.5	PASS
		VN	10	-0.002045	± 2.5	PASS
		VN	20	-0.001708	± 2.5	PASS
		VN	30	-0.004058	± 2.5	PASS
		VN	40	-0.002705	± 2.5	PASS
		VN	50	-0.004893	± 2.5	PASS
	MCH	VN	-30	-0.005752	± 2.5	PASS
		VN	-20	-0.003919	± 2.5	PASS
		VN	-10	-0.001735	± 2.5	PASS
		VN	0	-0.002755	± 2.5	PASS
		VN	10	-0.001424	± 2.5	PASS
		VN	20	-0.004427	± 2.5	PASS
		VN	30	-0.005714	± 2.5	PASS
		VN	40	-0.007035	± 2.5	PASS
		VN	50	-0.003310	± 2.5	PASS
	HCH	VN	-30	-0.001174	± 2.5	PASS
		VN	-20	-0.004613	± 2.5	PASS
		VN	-10	-0.003577	± 2.5	PASS
		VN	0	-0.004675	± 2.5	PASS
		VN	10	-0.001752	± 2.5	PASS
		VN	20	-0.004473	± 2.5	PASS
		VN	30	-0.003375	± 2.5	PASS
		VN	40	-0.001677	± 2.5	PASS
		VN	50	-0.003384	± 2.5	PASS

Appendix G :Field Strength of Spurious Radiation Measurement

Test Result

Bandwidth:	1.4M				Test channel:	Lowest
Modulation:	QPSK				Temperature :	23~24°C
RB #:	1RB #0				Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Reading Level (dBm)	Substitution factor	Measurement Level (dBm)		
1649.4	Vertical	-31.69	1.32	-30.37	-13.00	PASS
2474.1	V	-37.68	5.25	-32.43		
-	V	-	-	-		
1649.4	Horizontal	-32.03	-0.42	-32.45		
2474.1	H	-38.8	4.29	-34.51		
-	H	-	-	-		
Bandwidth:	1.4M				Test channel:	Middle
Modulation:	QPSK				Temperature :	23~24°C
RB #:	1RB #0				Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Reading Level (dBm)	Substitution factor	Measurement Level (dBm)		
1673.0	Vertical	-31.66	1.33	-30.33	-13.00	PASS
2509.5	V	-38.57	5.49	-33.08		
-	V	-	-	-		
1673.0	Horizontal	-32.21	-0.38	-32.59		
2509.5	H	-39.31	4.53	-34.78		
-	H	-	-	-		
Bandwidth:	1.4M				Test channel:	Highest
Modulation:	QPSK				Temperature :	23~24°C
RB #:	1RB #0				Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Reading Level (dBm)	Substitution factor	Measurement Level (dBm)		
1696.6	Vertical	-32.68	1.34	-31.34	-13.00	PASS
2544.9	V	-38.67	5.51	-33.16		
-	V	-	-	-		
1696.6	Horizontal	-32.06	-0.35	-32.41		
2544.9	H	-40.13	4.55	-35.58		
-	H	-	-	-		

Bandwidth:	1.4M				Test channel:	Lowest
Modulation:	16QAM				Temperature :	23~24°C
RB #:	1RB #0				Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Reading Level (dBm)	Substitution factor	Measurement Level (dBm)		
1649.4	Vertical	-32.03	1.32	-30.71	-13.00	PASS
2474.1	V	-37.59	5.25	-32.34		
-	V	-	-	-		
1649.4	Horizontal	-32.19	-0.42	-32.61		
2474.1	H	-39.04	4.29	-34.75		
-	H	-	-	-		
Bandwidth:	1.4M				Test channel:	Middle
Modulation:	16QAM				Temperature :	23~24°C
RB #:	1RB #0				Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Reading Level (dBm)	Substitution factor	Measurement Level (dBm)		
1673.0	Vertical	-31.91	1.33	-30.58	-13.00	PASS
2509.5	V	-38.18	5.49	-32.69		
-	V	-	-	-		
1673.0	Horizontal	-32.5	-0.38	-32.88		
2509.5	H	-40.56	4.53	-36.03		
-	H	-	-	-		
Bandwidth:	1.4M				Test channel:	Highest
Modulation:	16QAM				Temperature :	23~24°C
RB #:	1RB #0				Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Reading Level (dBm)	Substitution factor	Measurement Level (dBm)		
1696.6	Vertical	-32.65	1.34	-31.31	-13.00	PASS
2544.9	V	-38.85	5.51	-33.34		
-	V	-	-	-		
1696.6	Horizontal	-32.47	-0.35	-32.82		
2544.9	H	-41.02	4.55	-36.47		
-	H	-	-	-		

Note: All bandwidth and modulation are tested, only the worst result is reported.