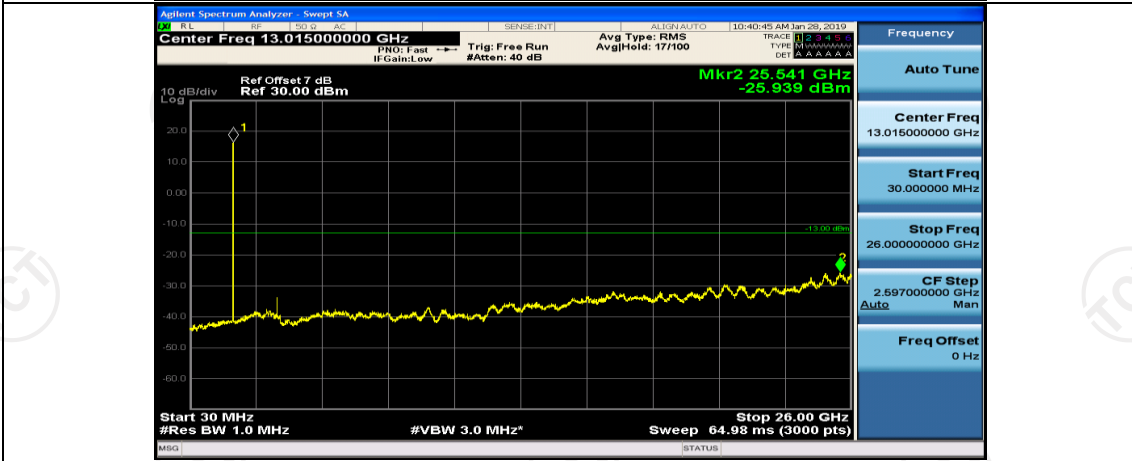
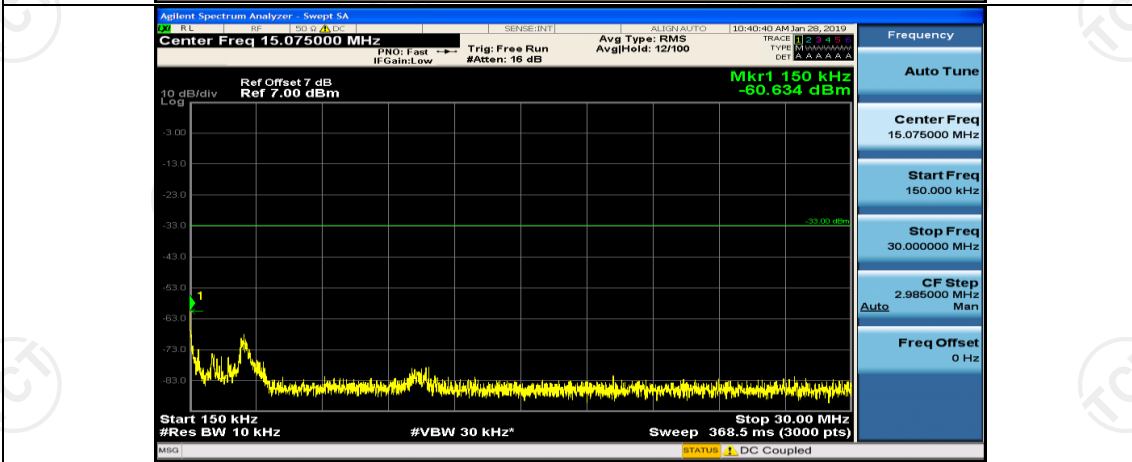
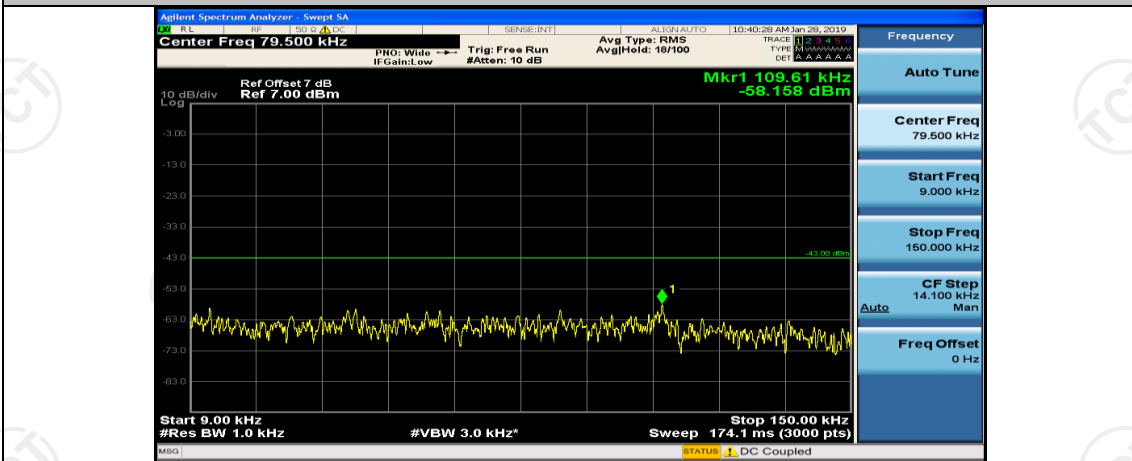
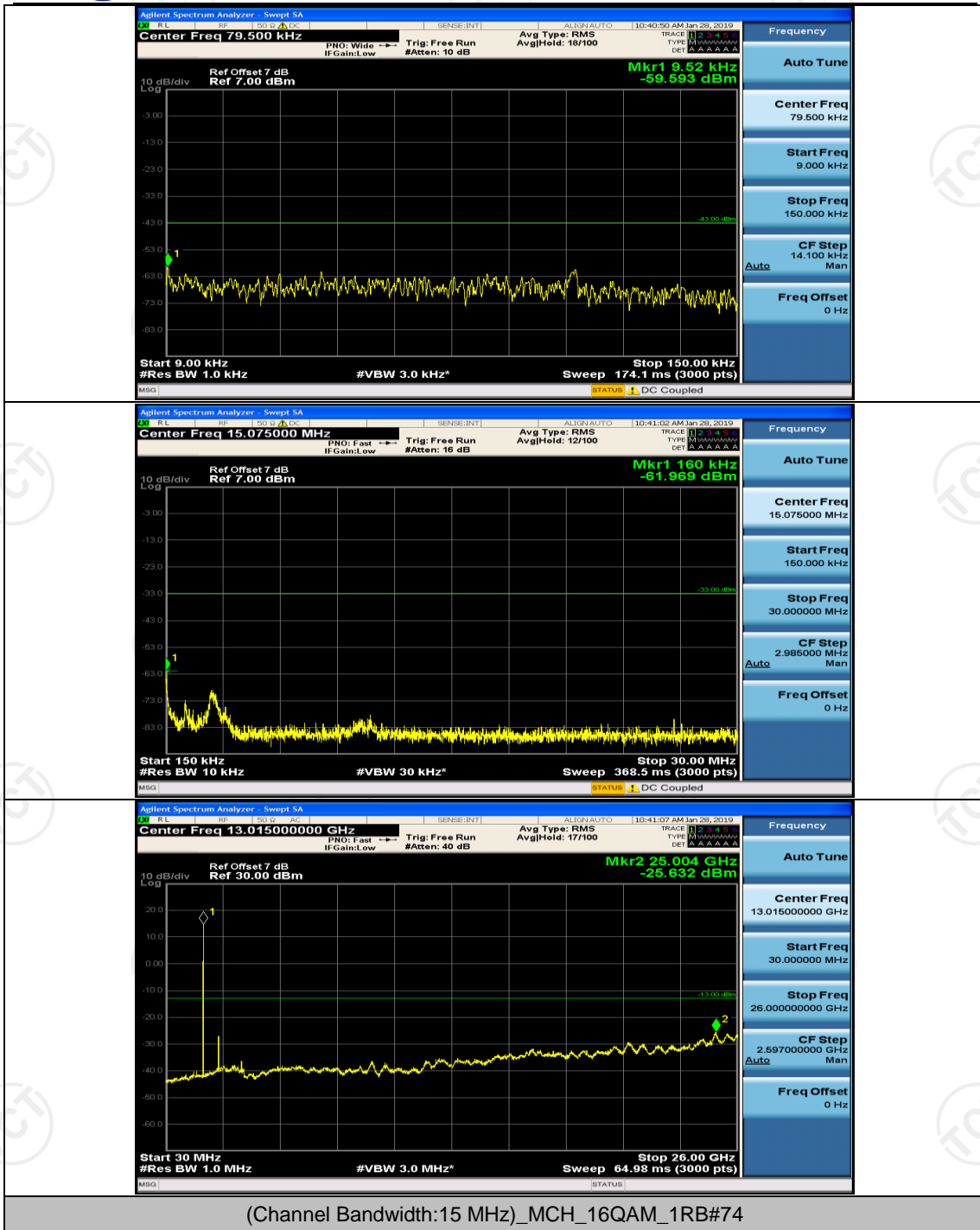
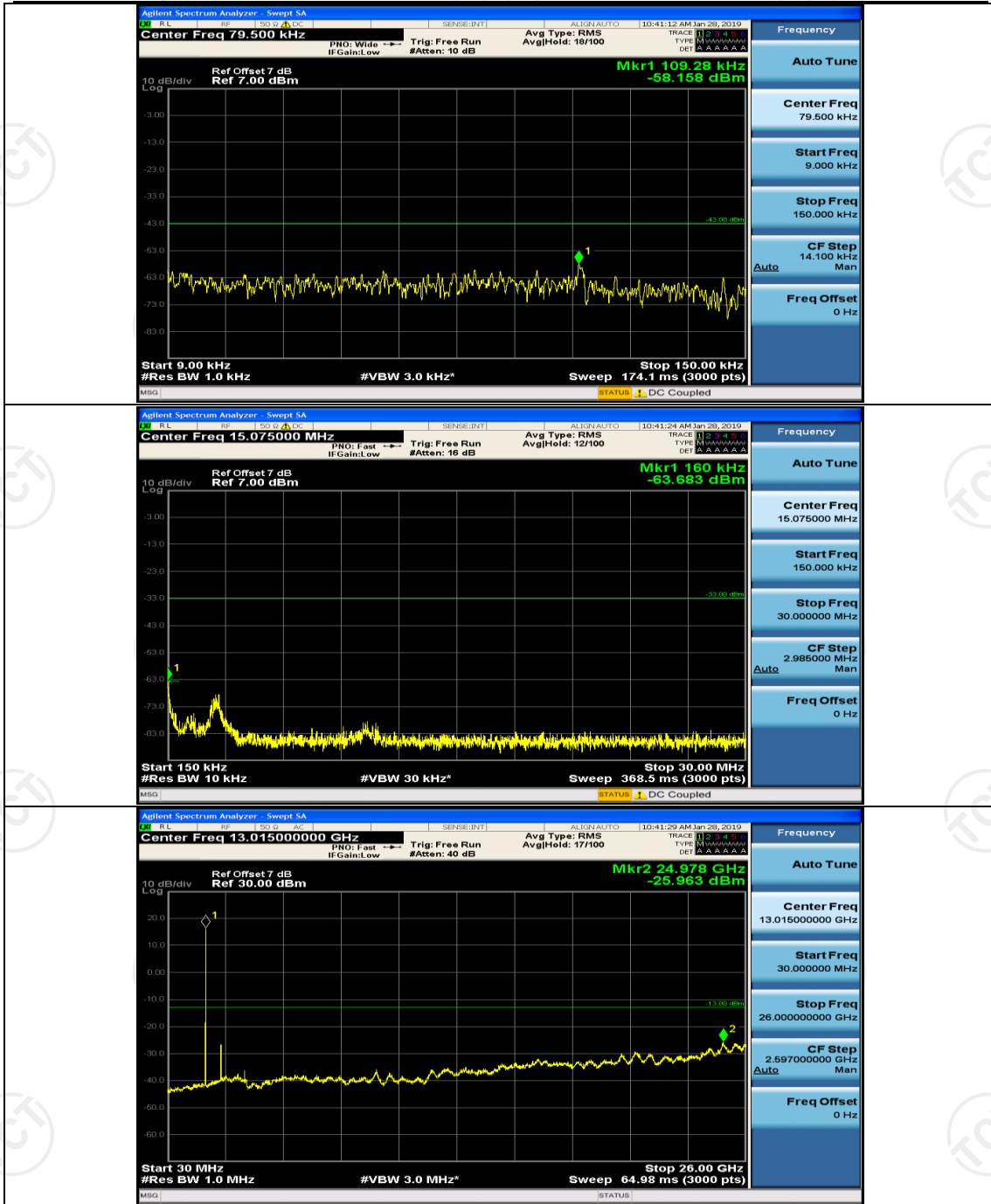


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

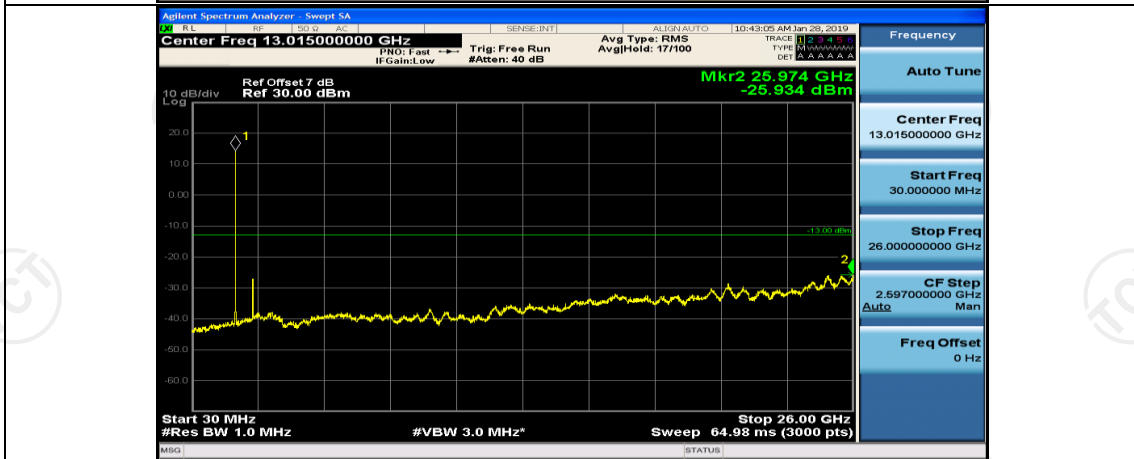
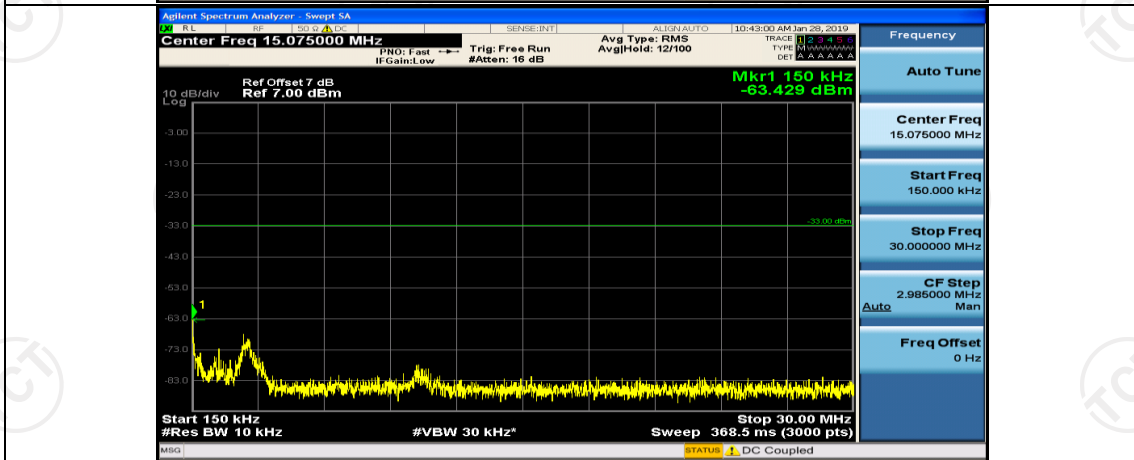
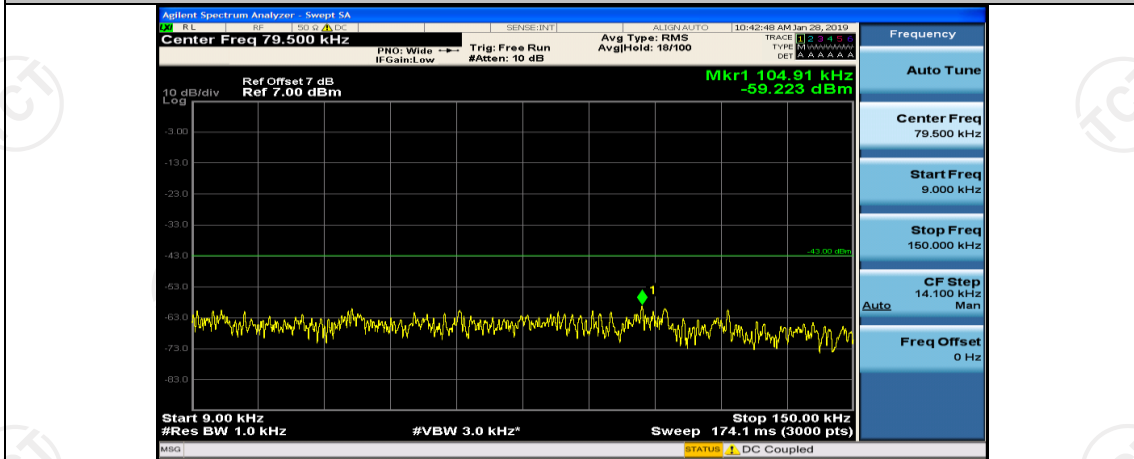


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

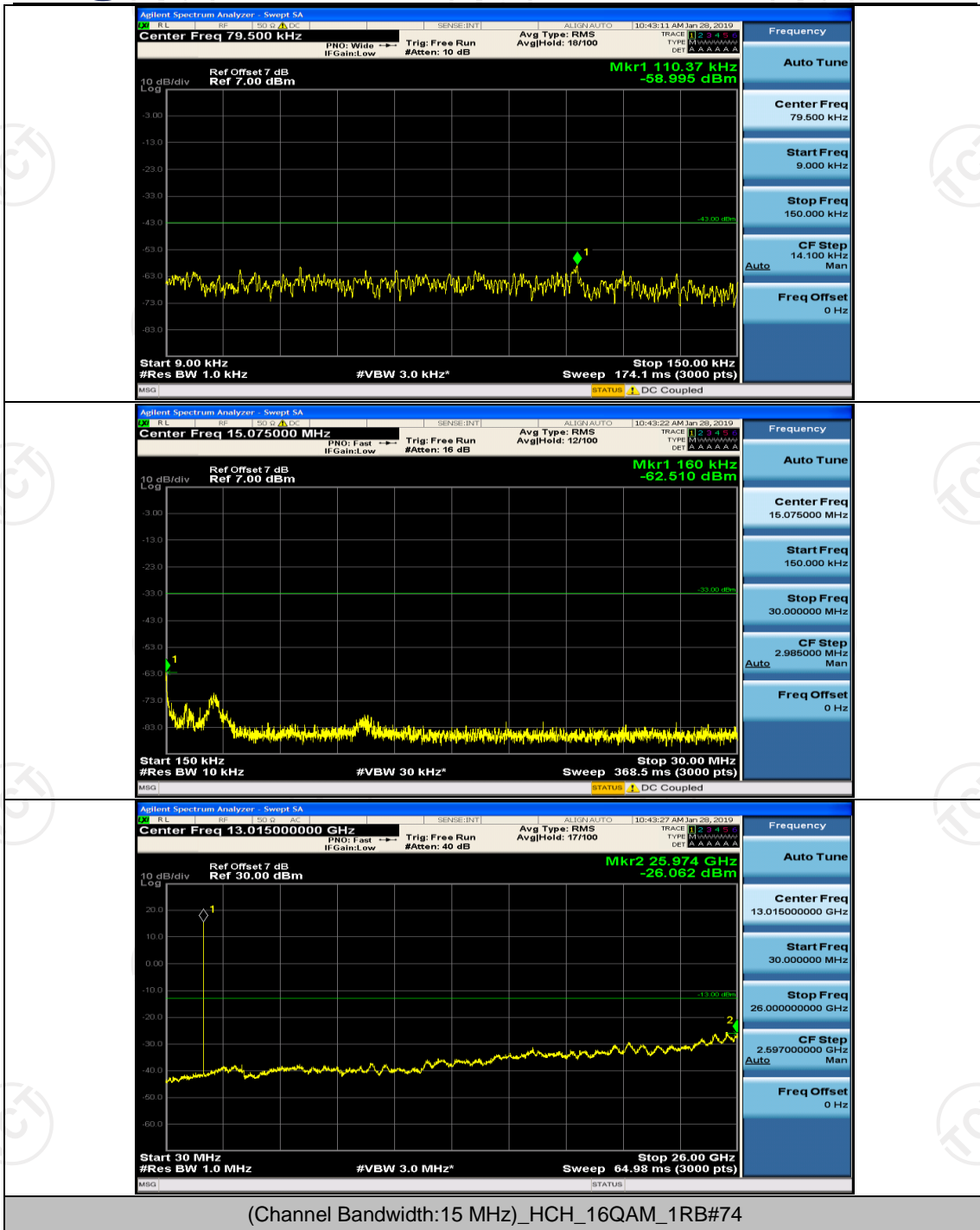


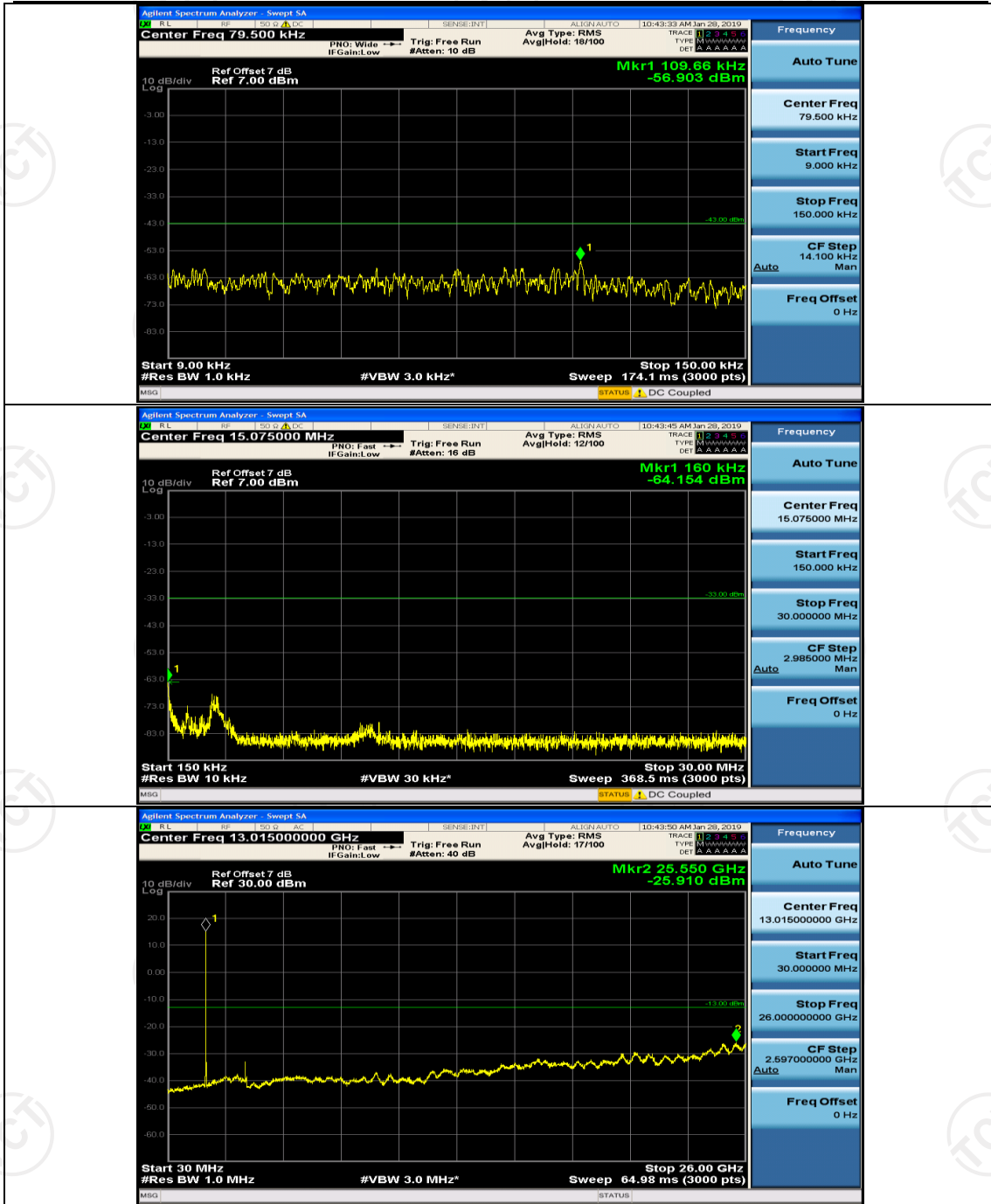


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

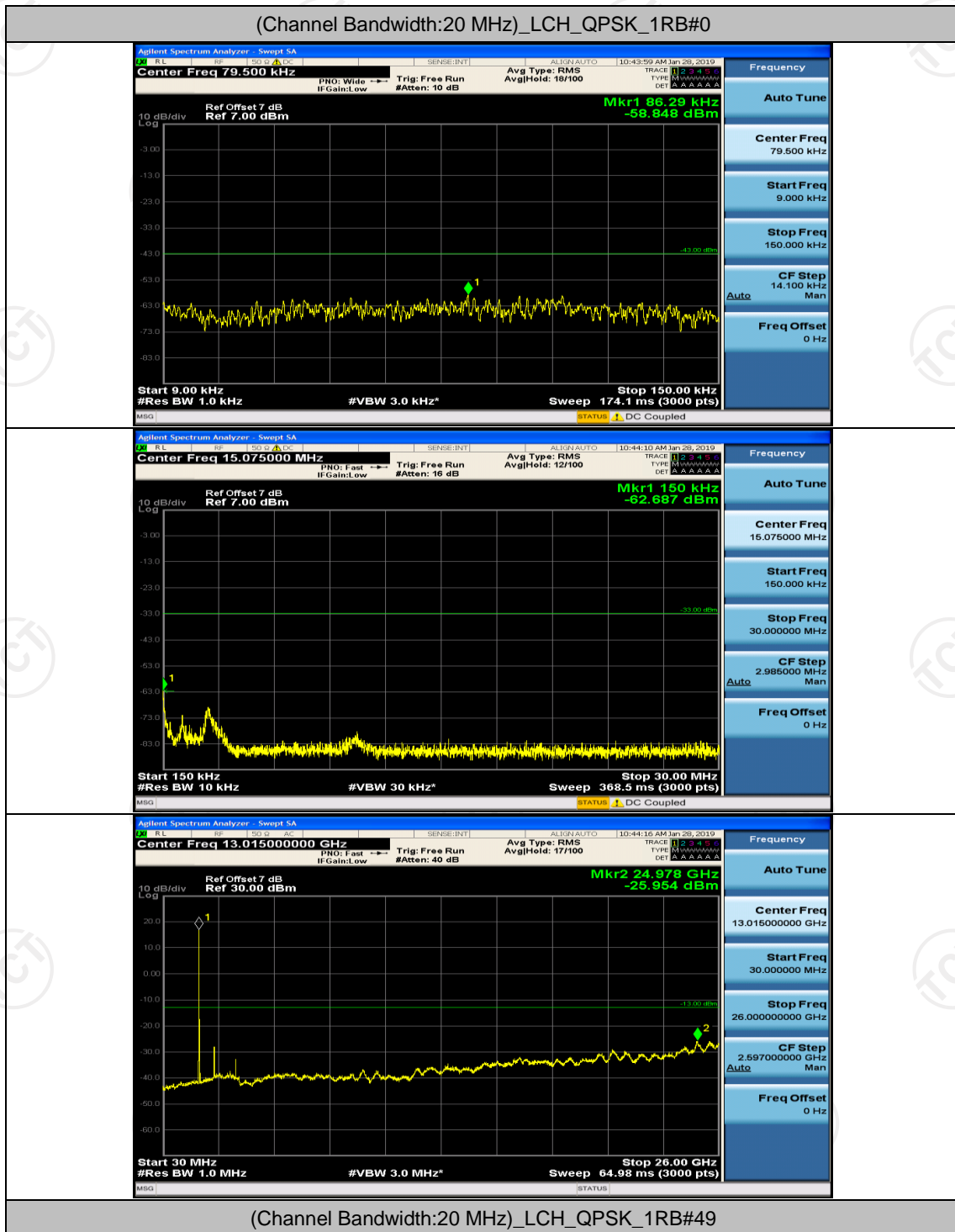


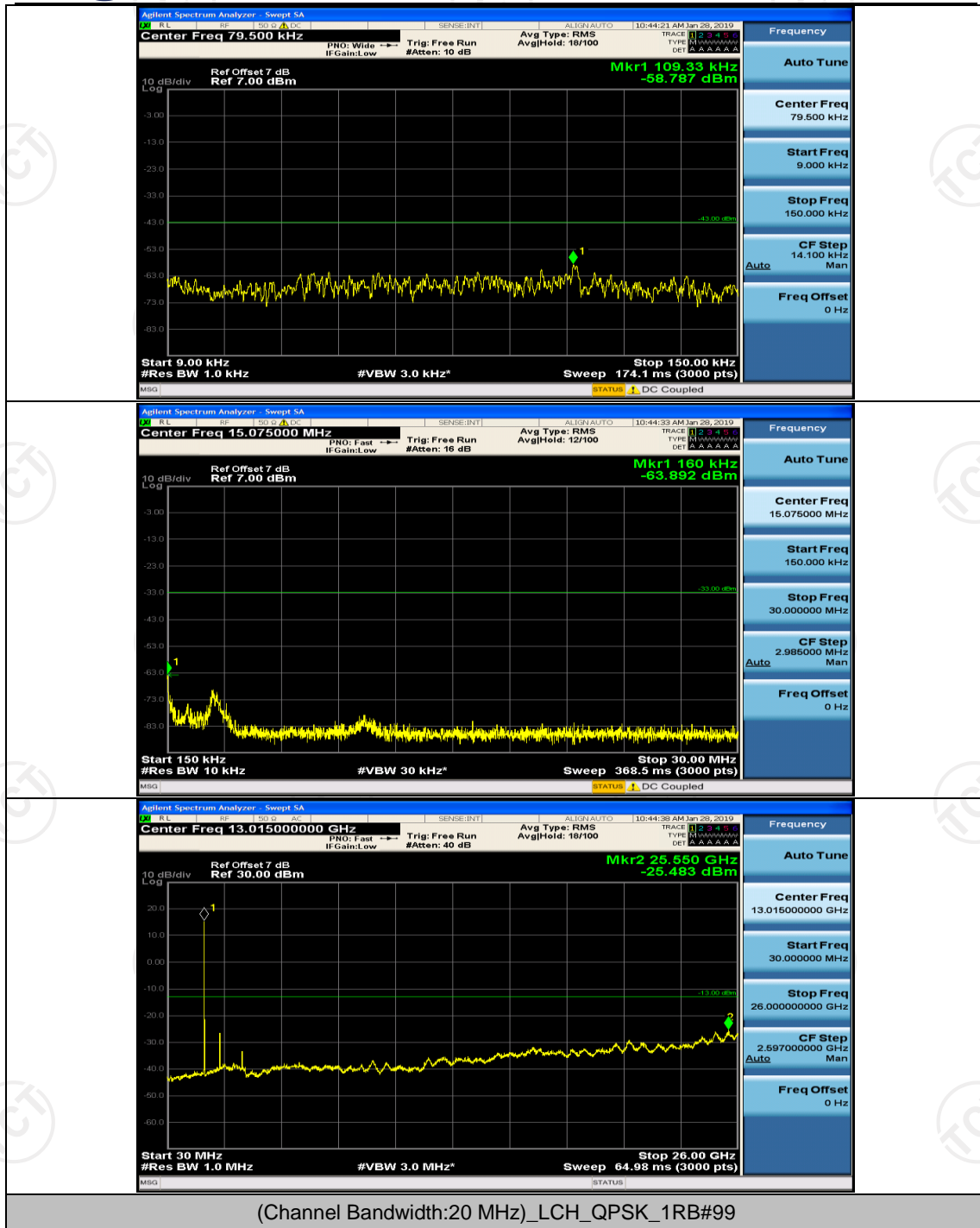
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

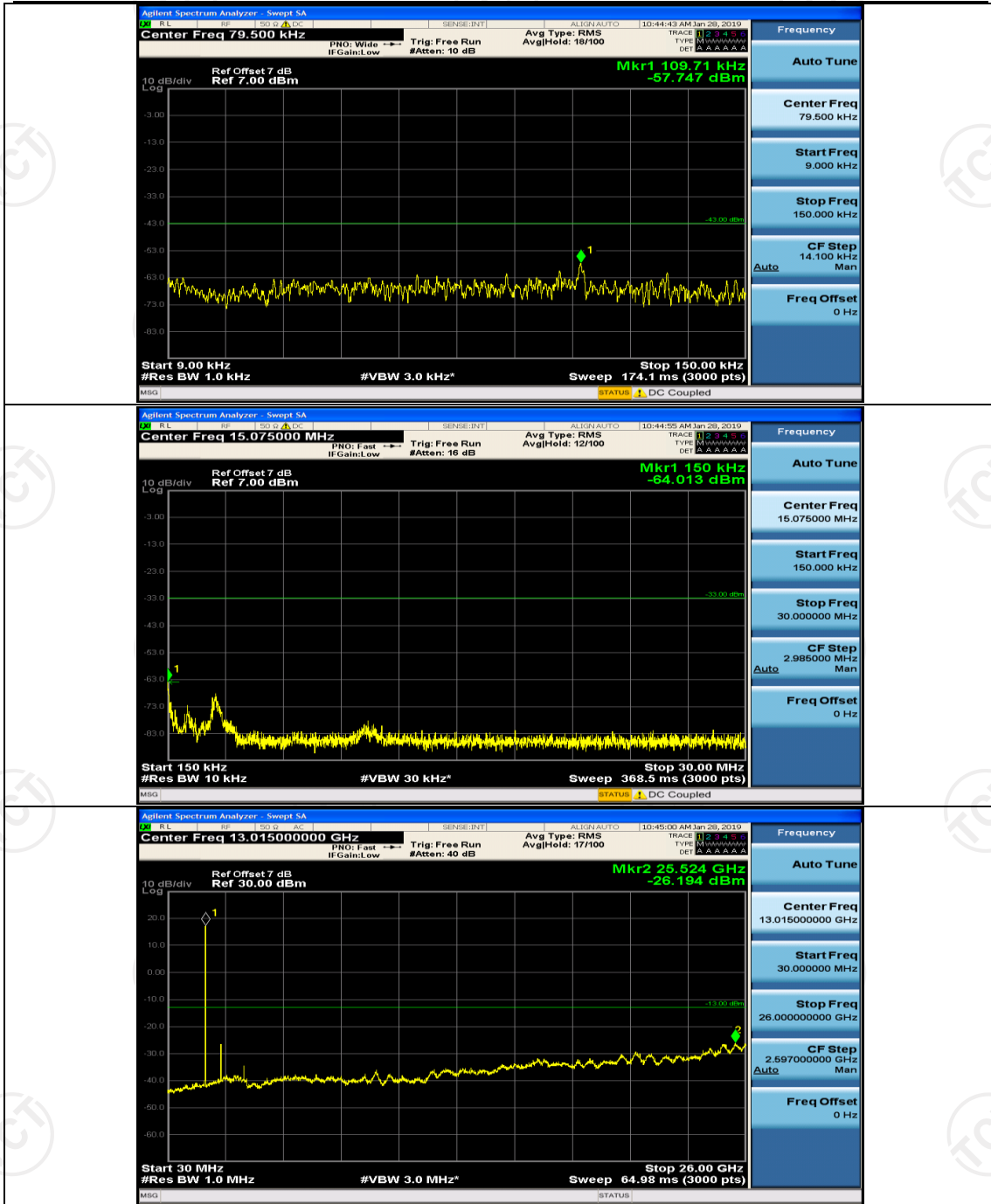




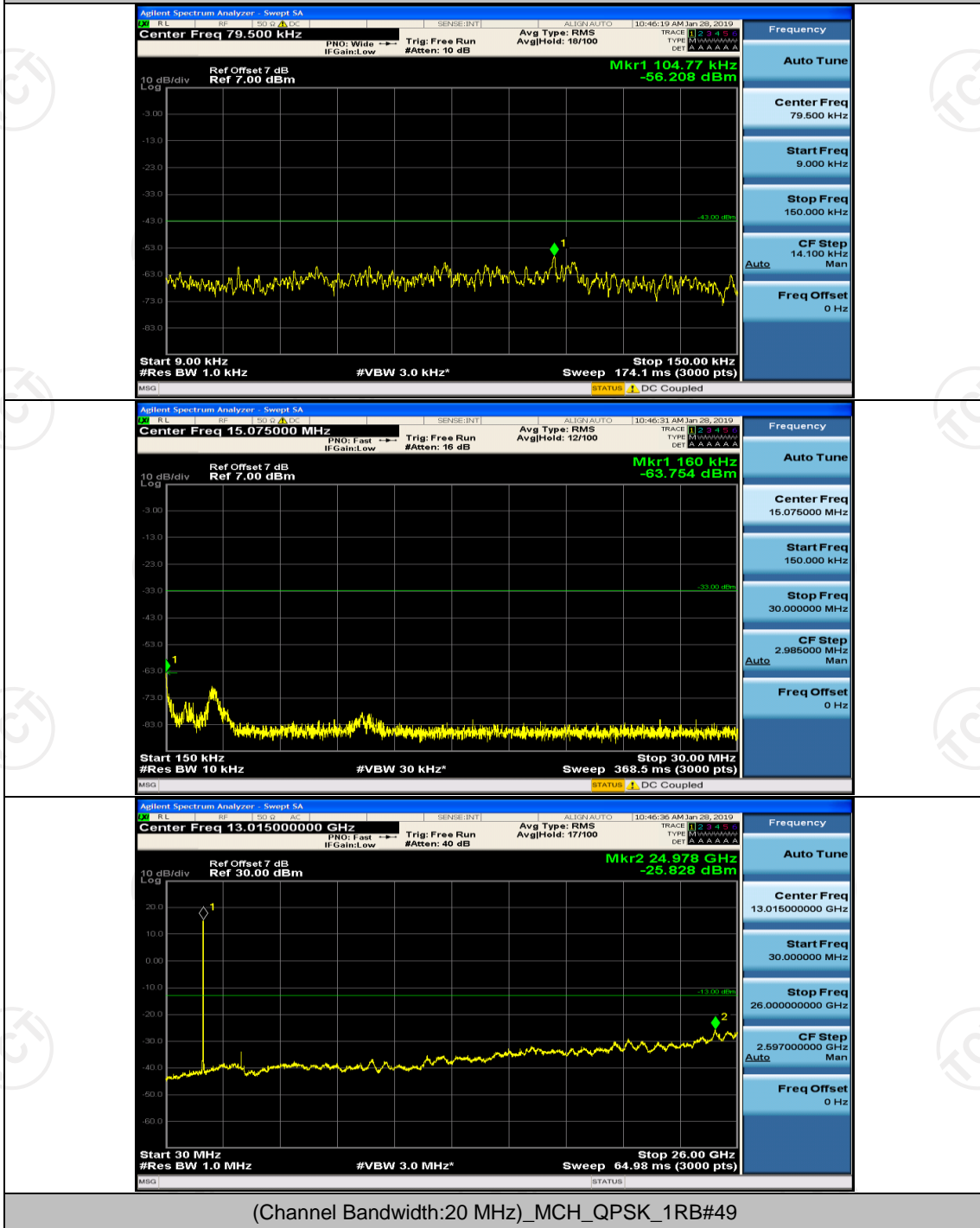
Channel Bandwidth: 20 MHz



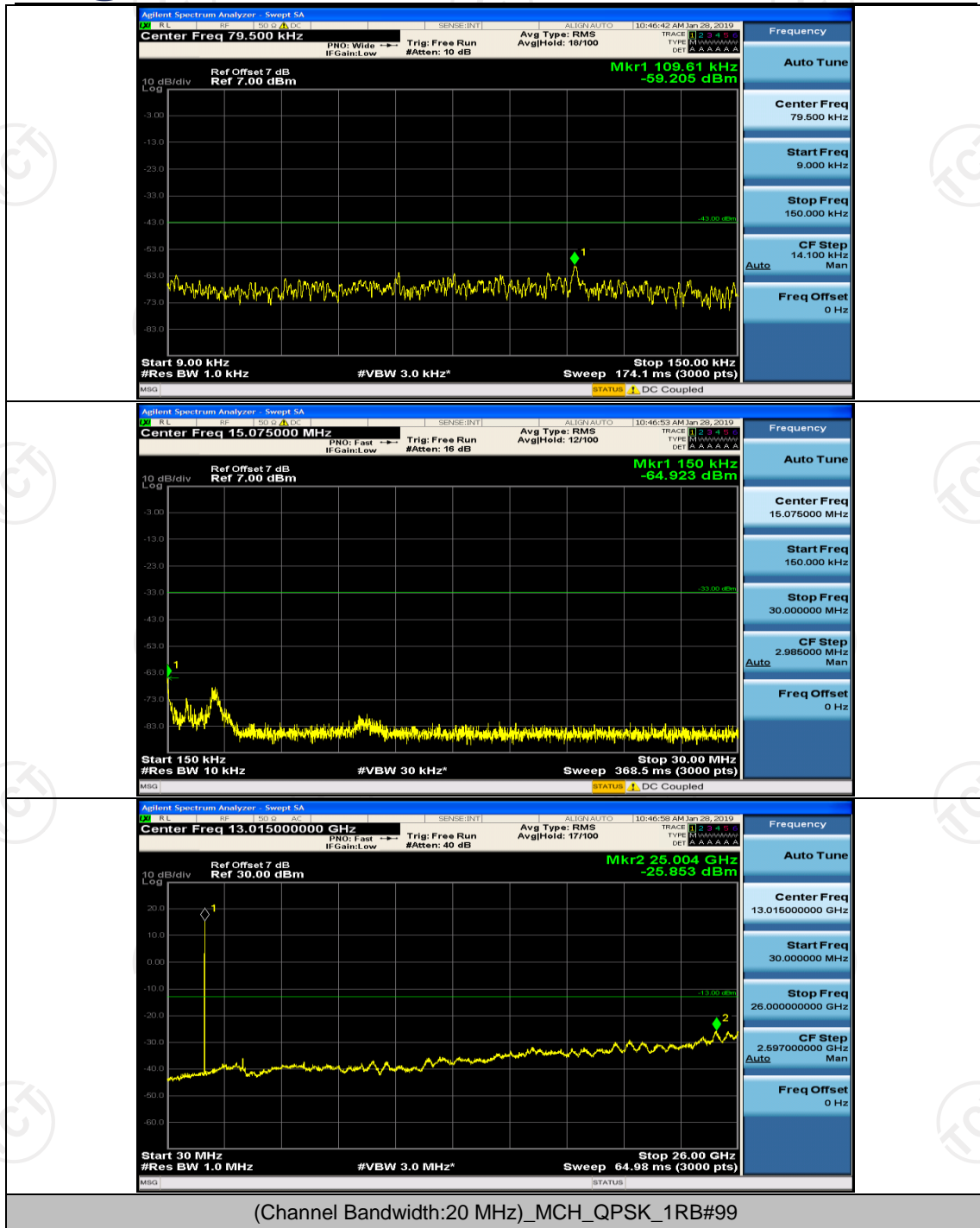


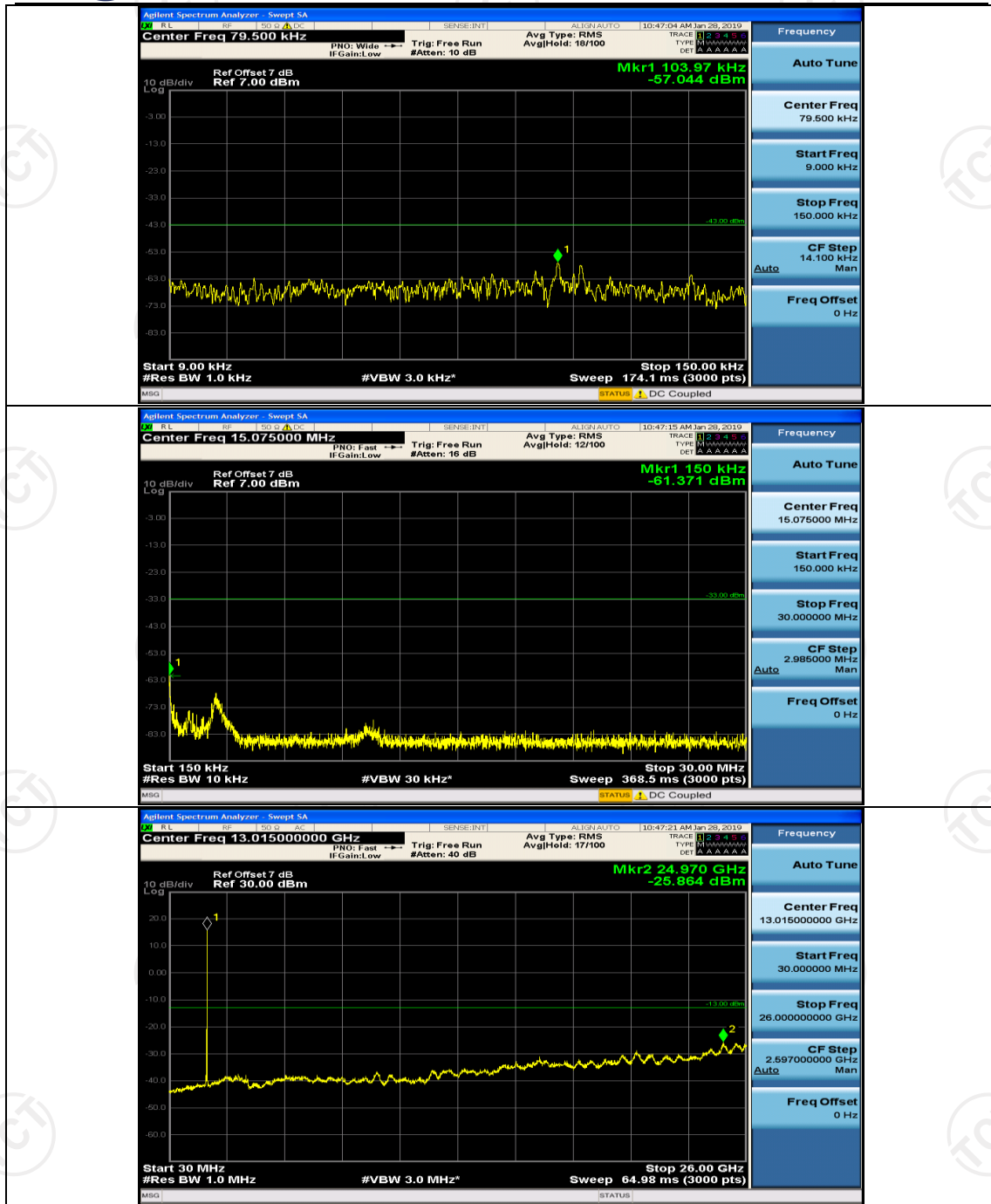


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

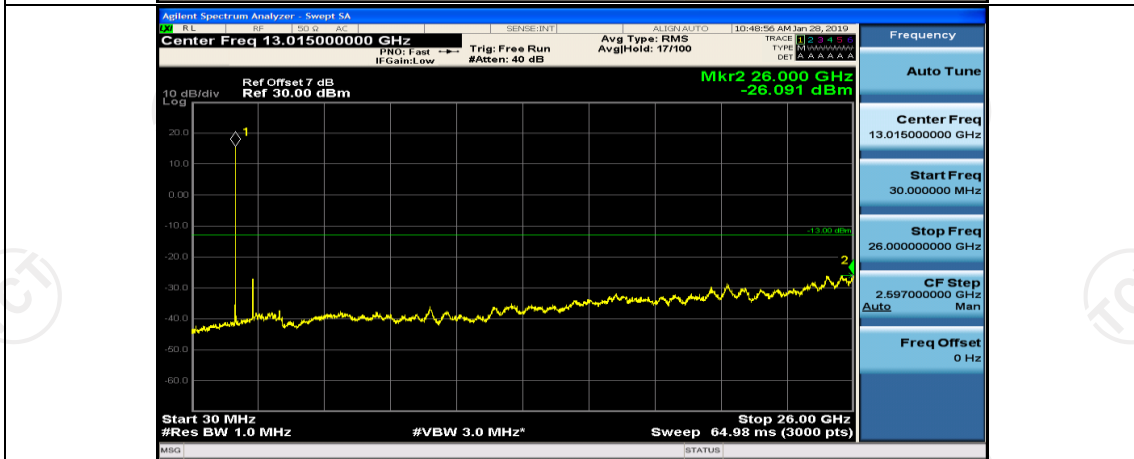
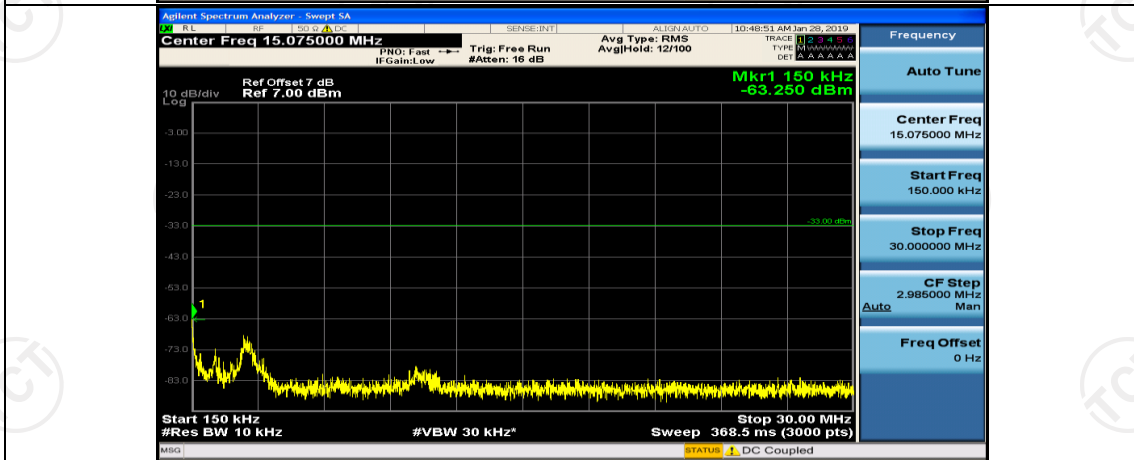
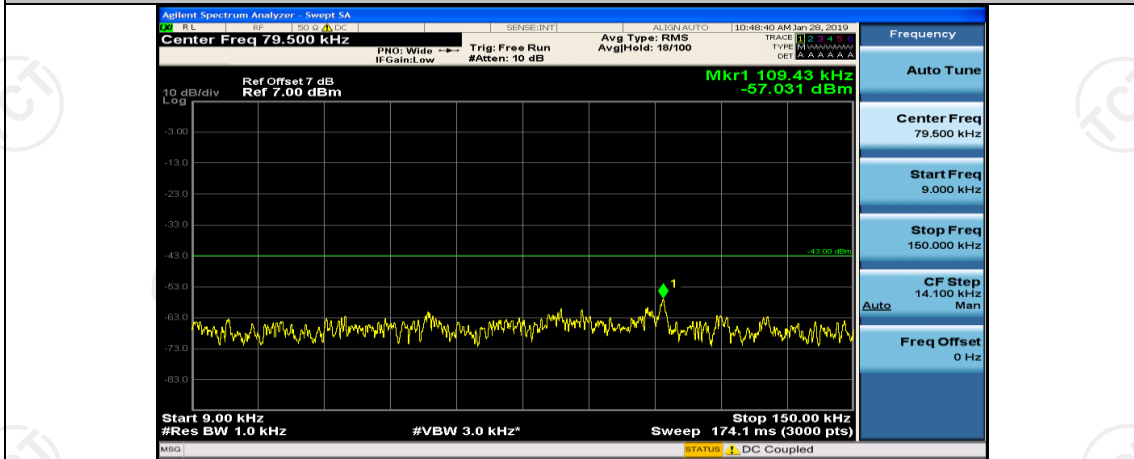


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

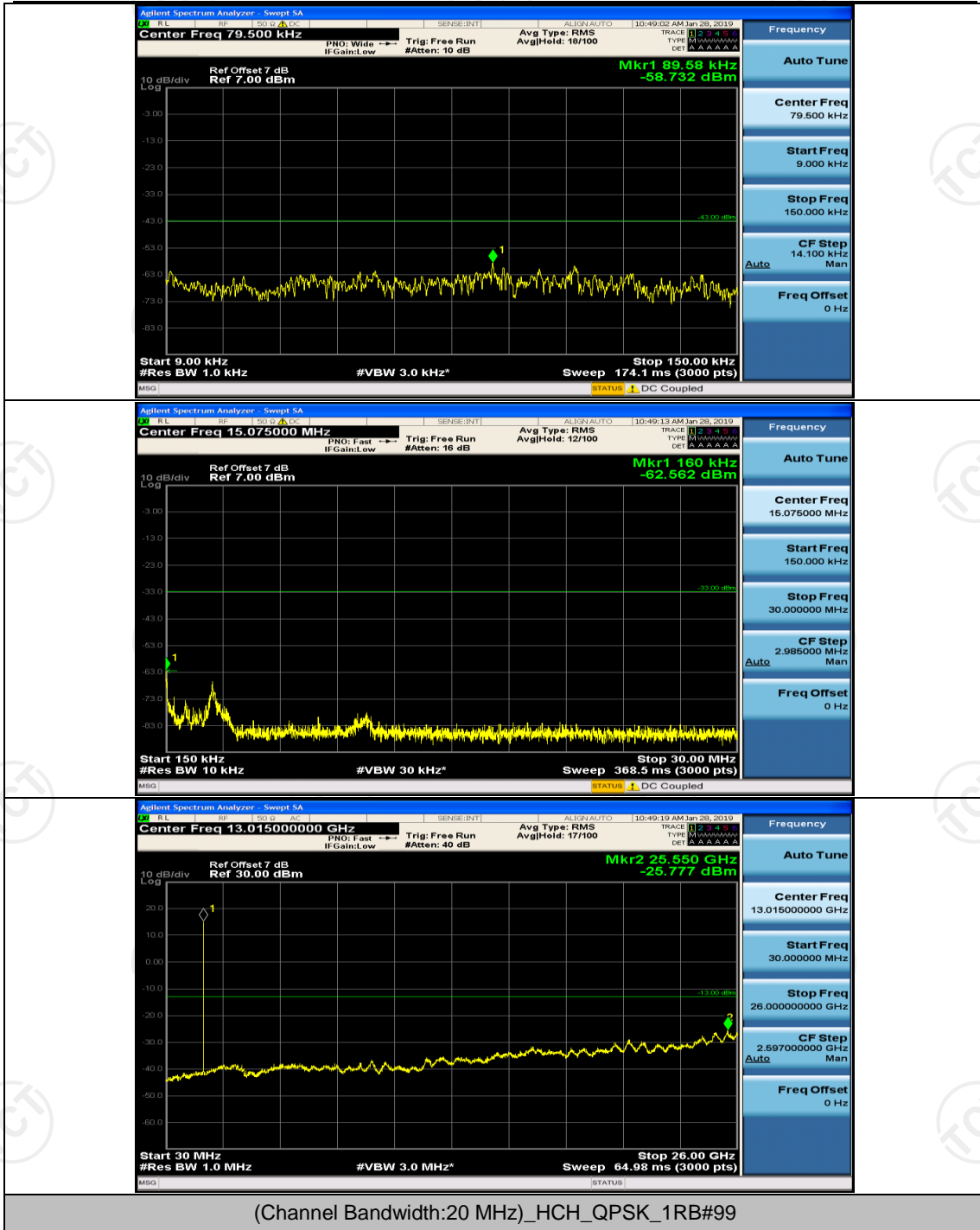


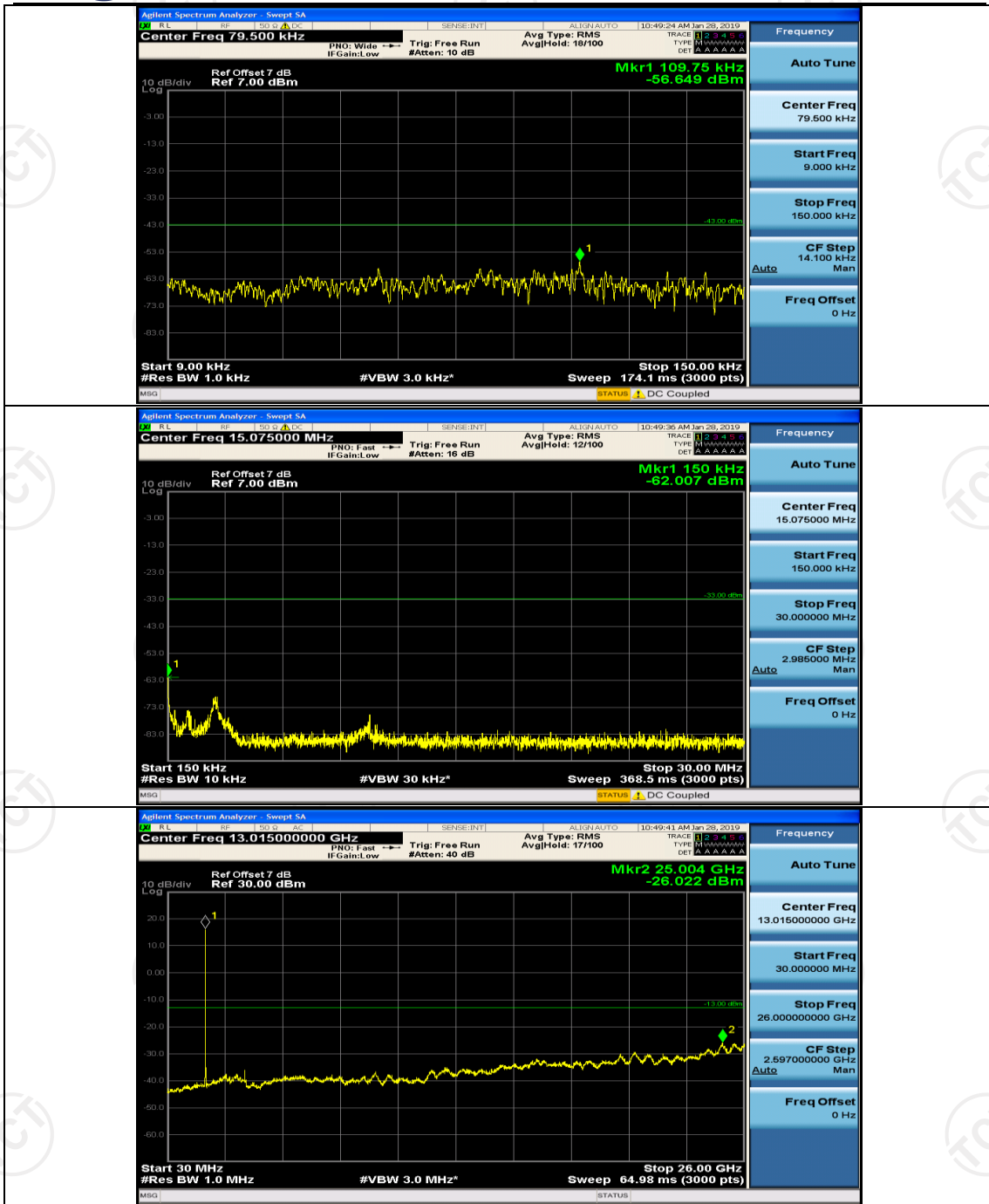


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

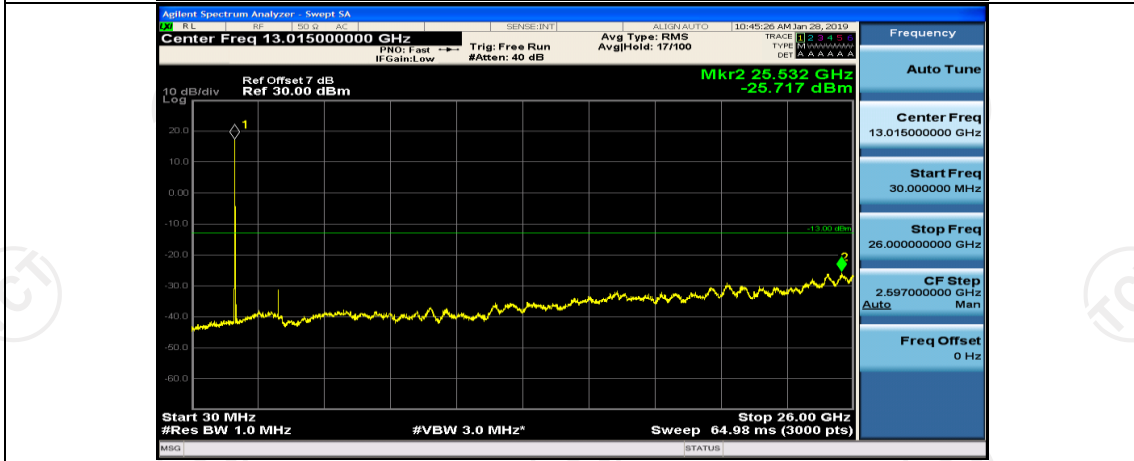
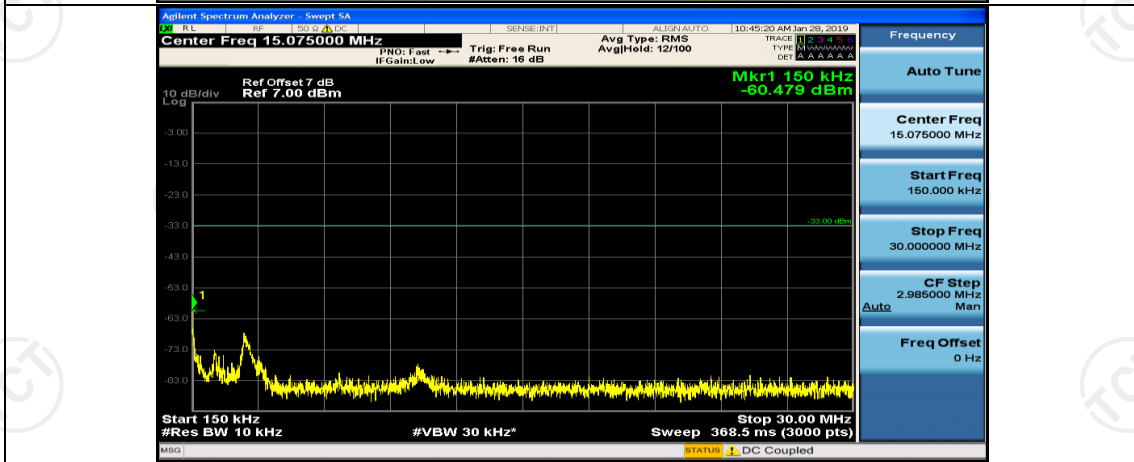
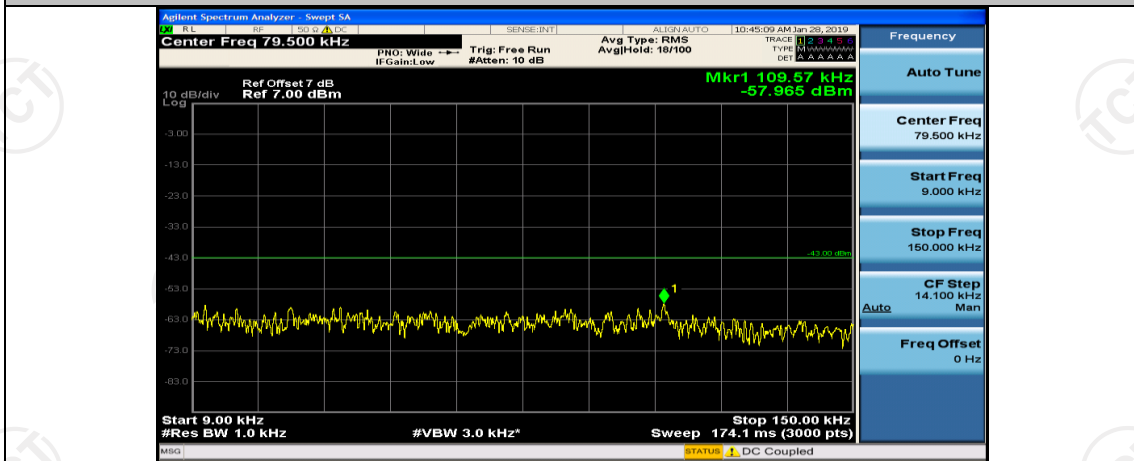


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

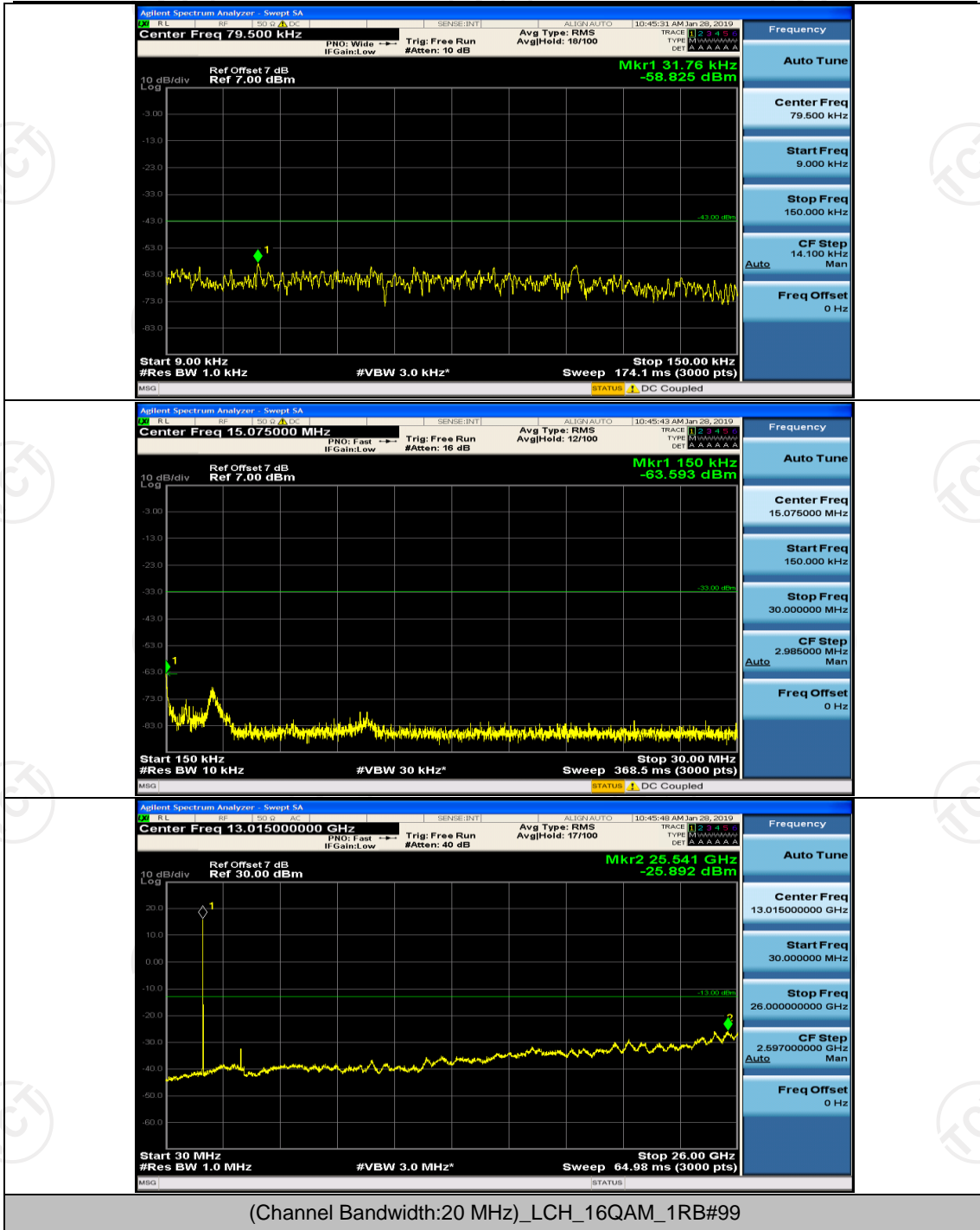


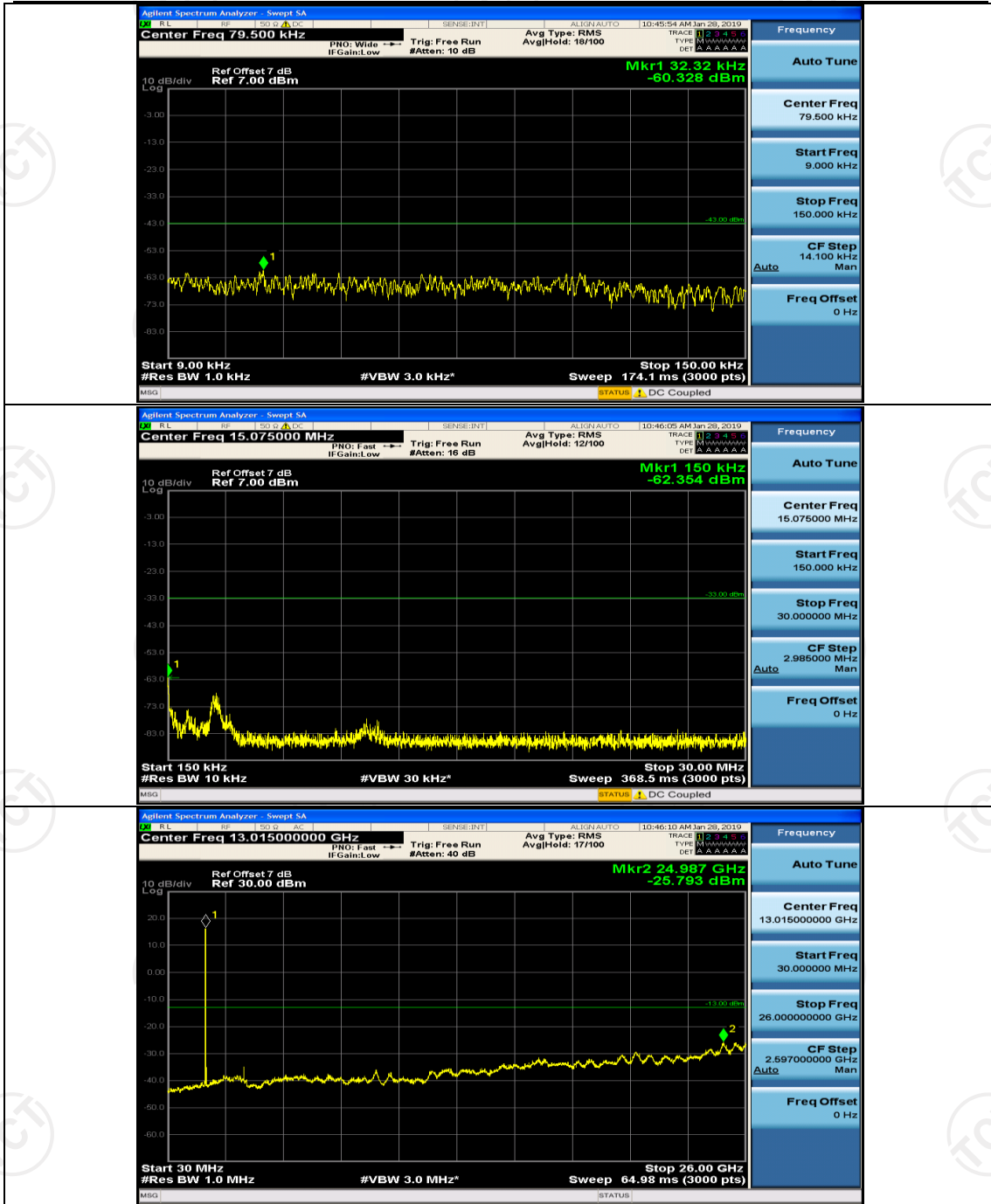


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

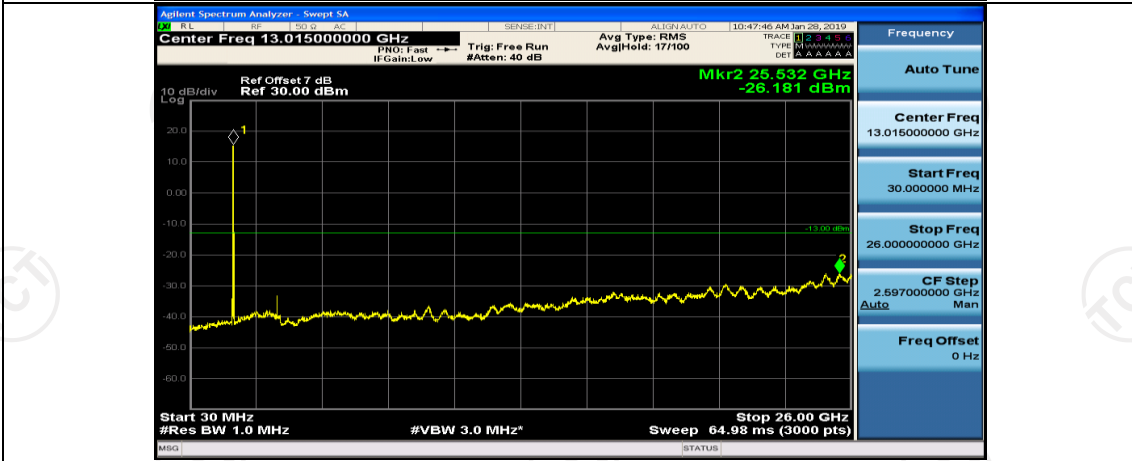
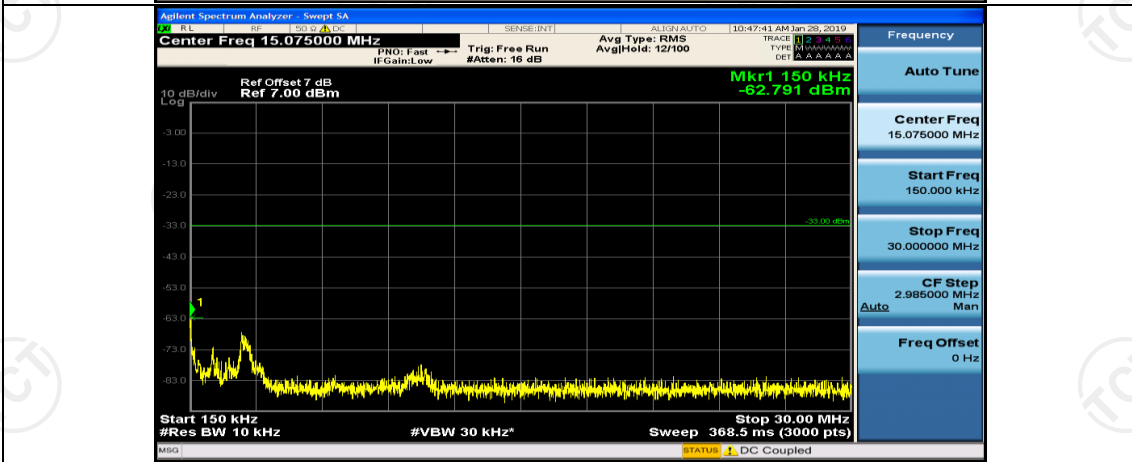
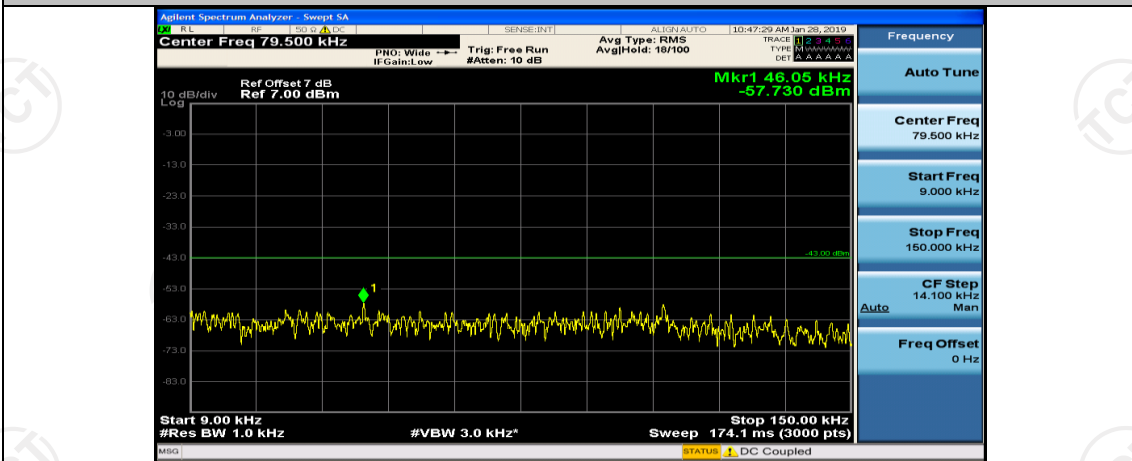


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

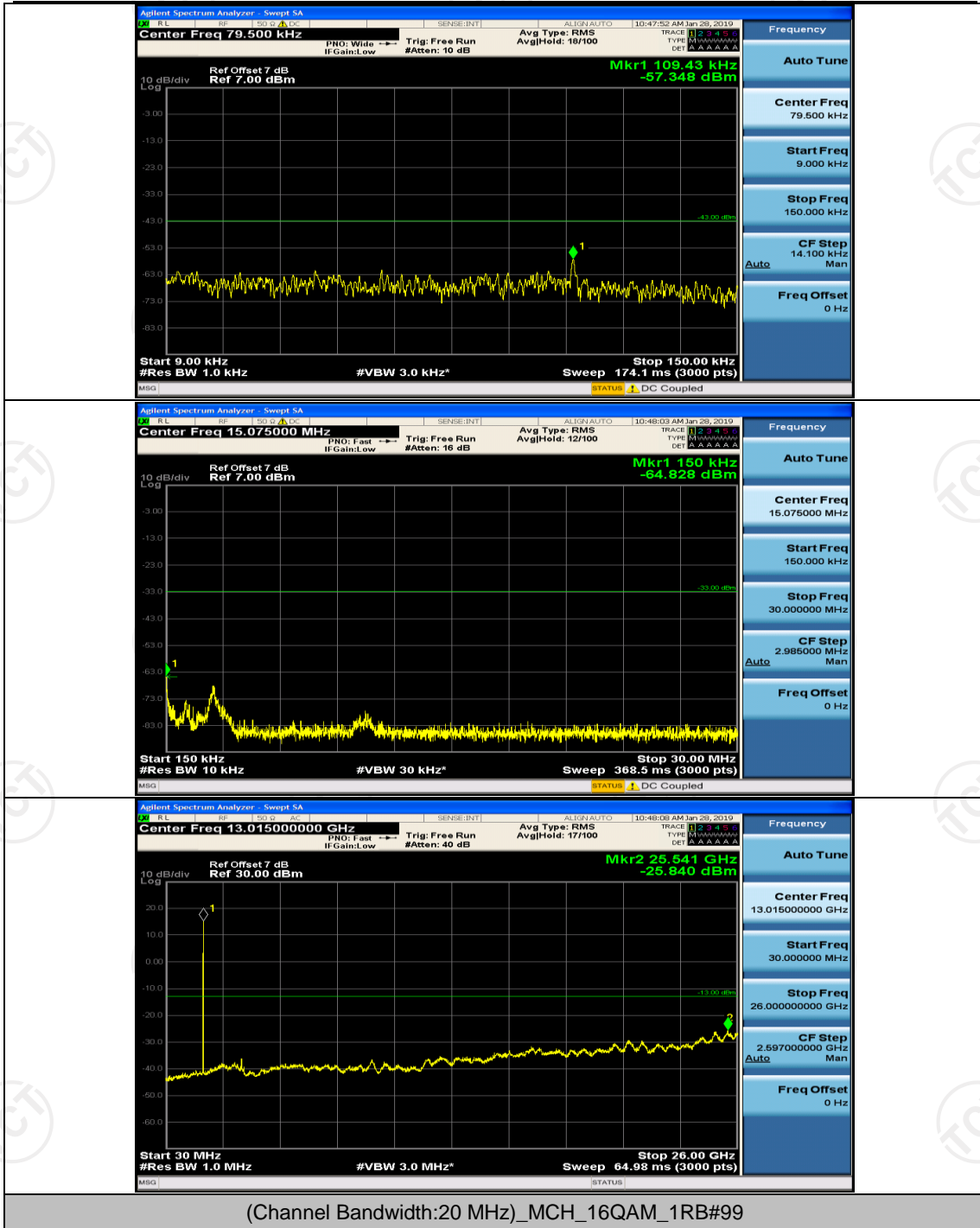


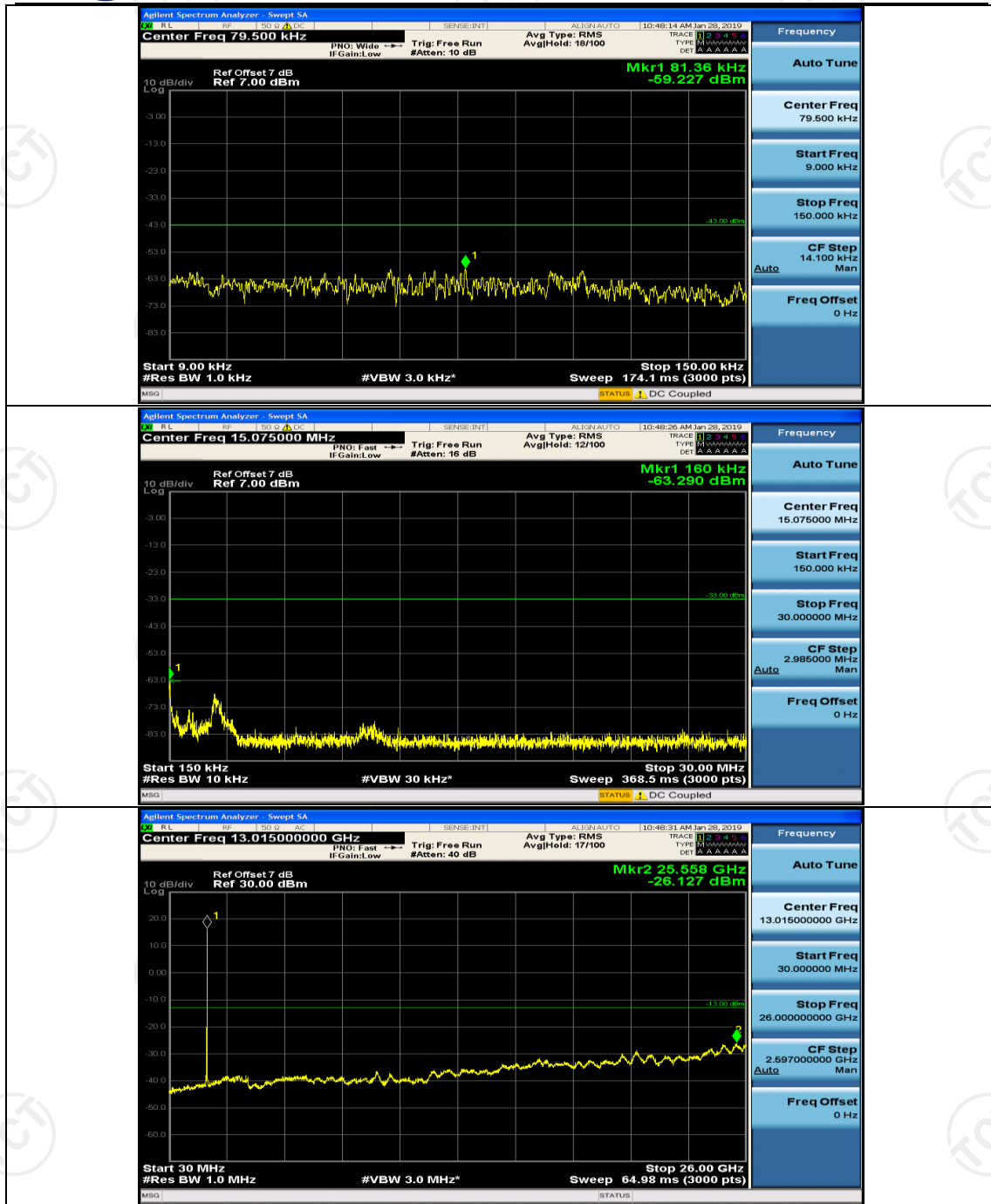


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

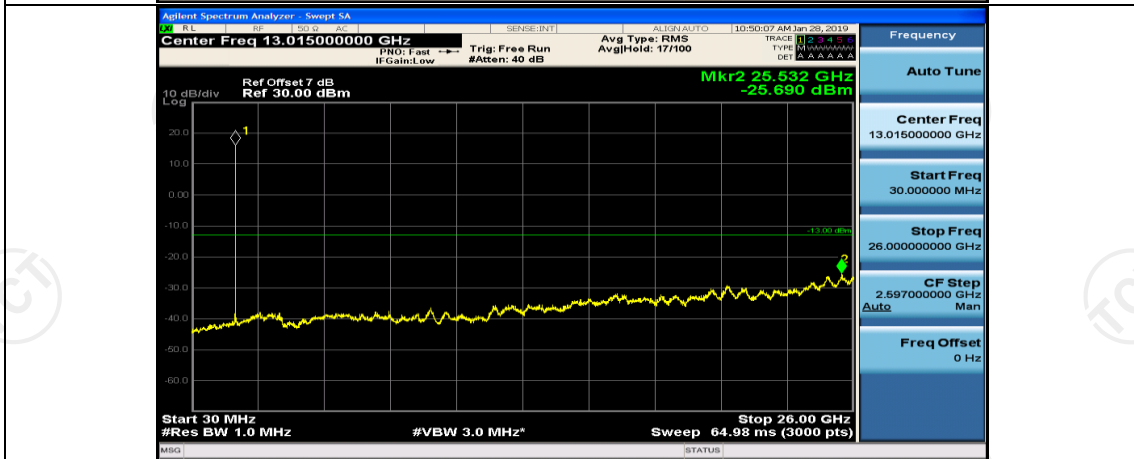
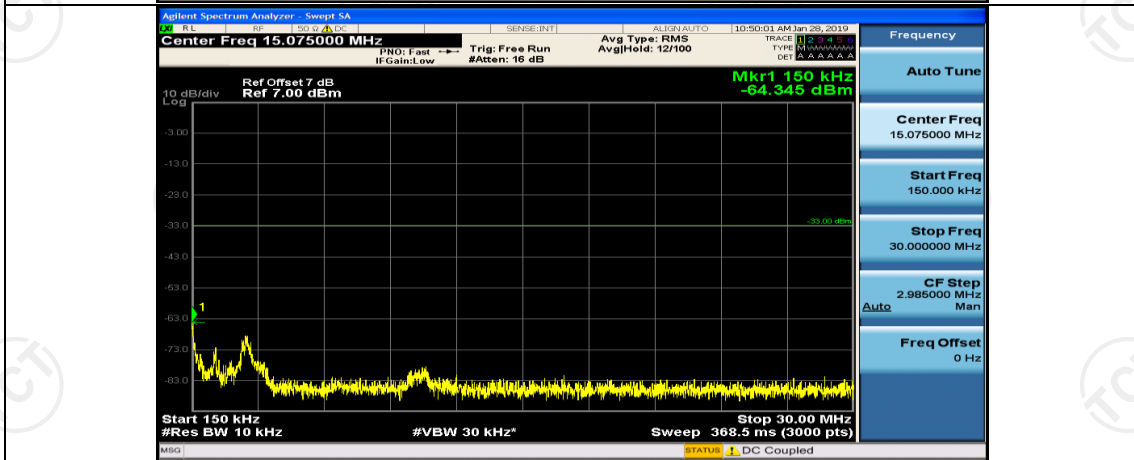
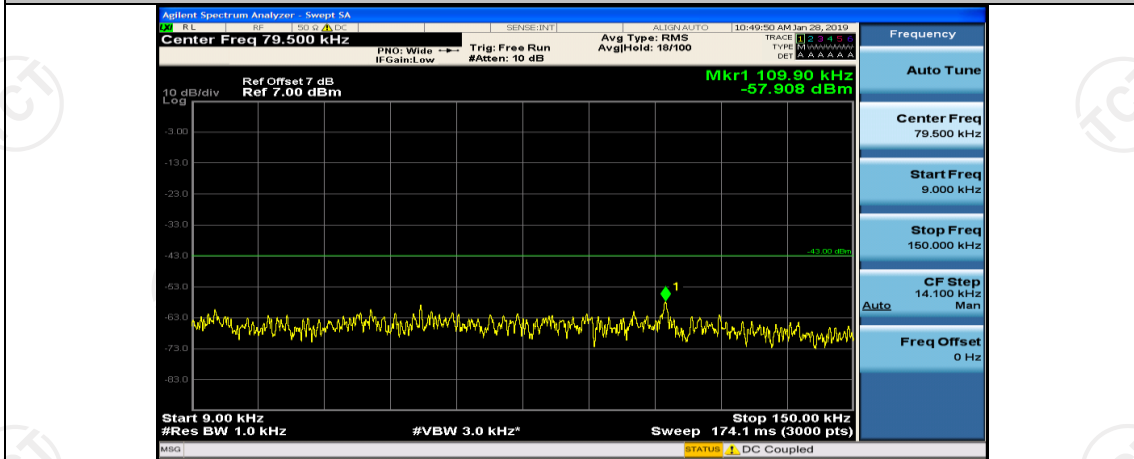


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

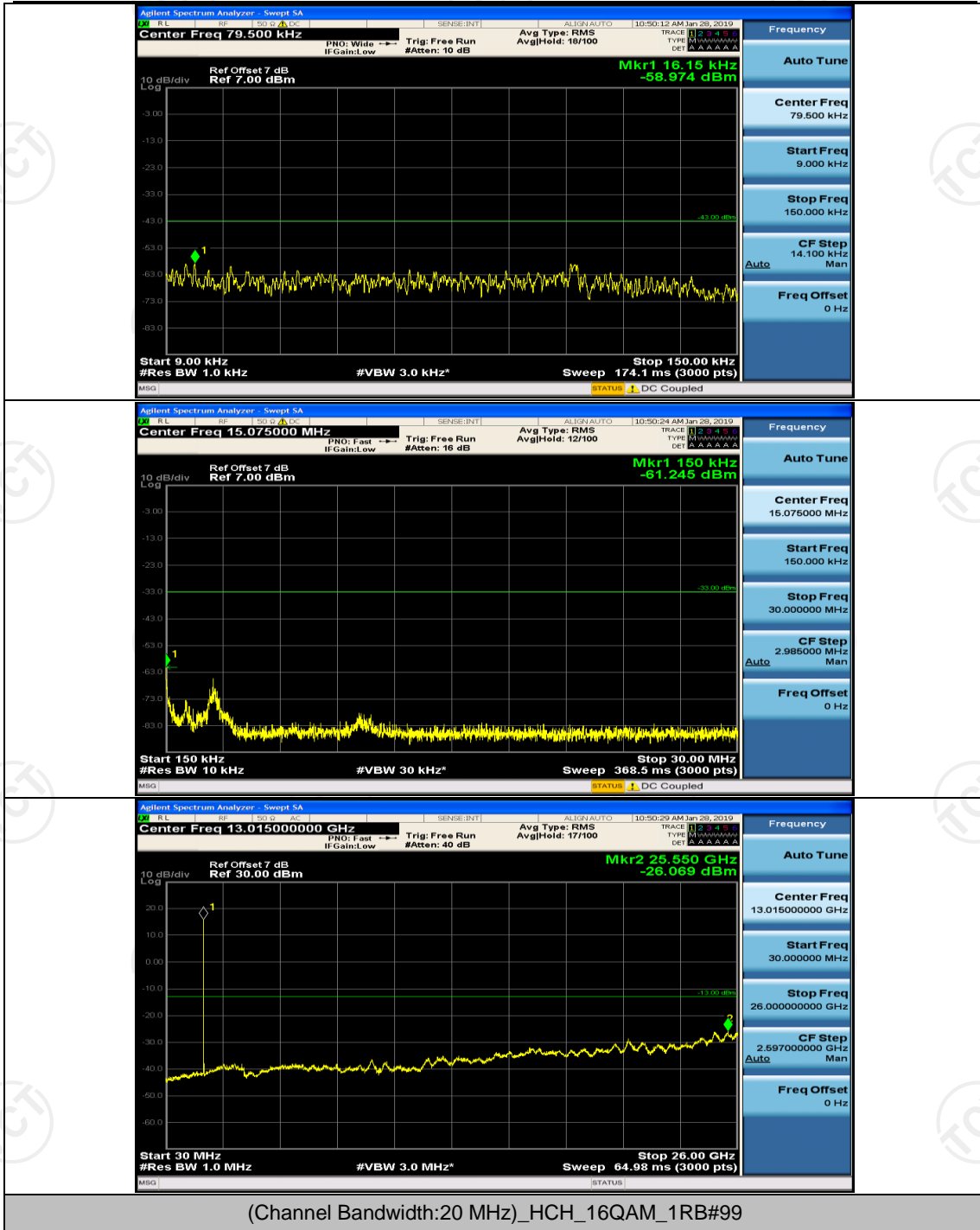


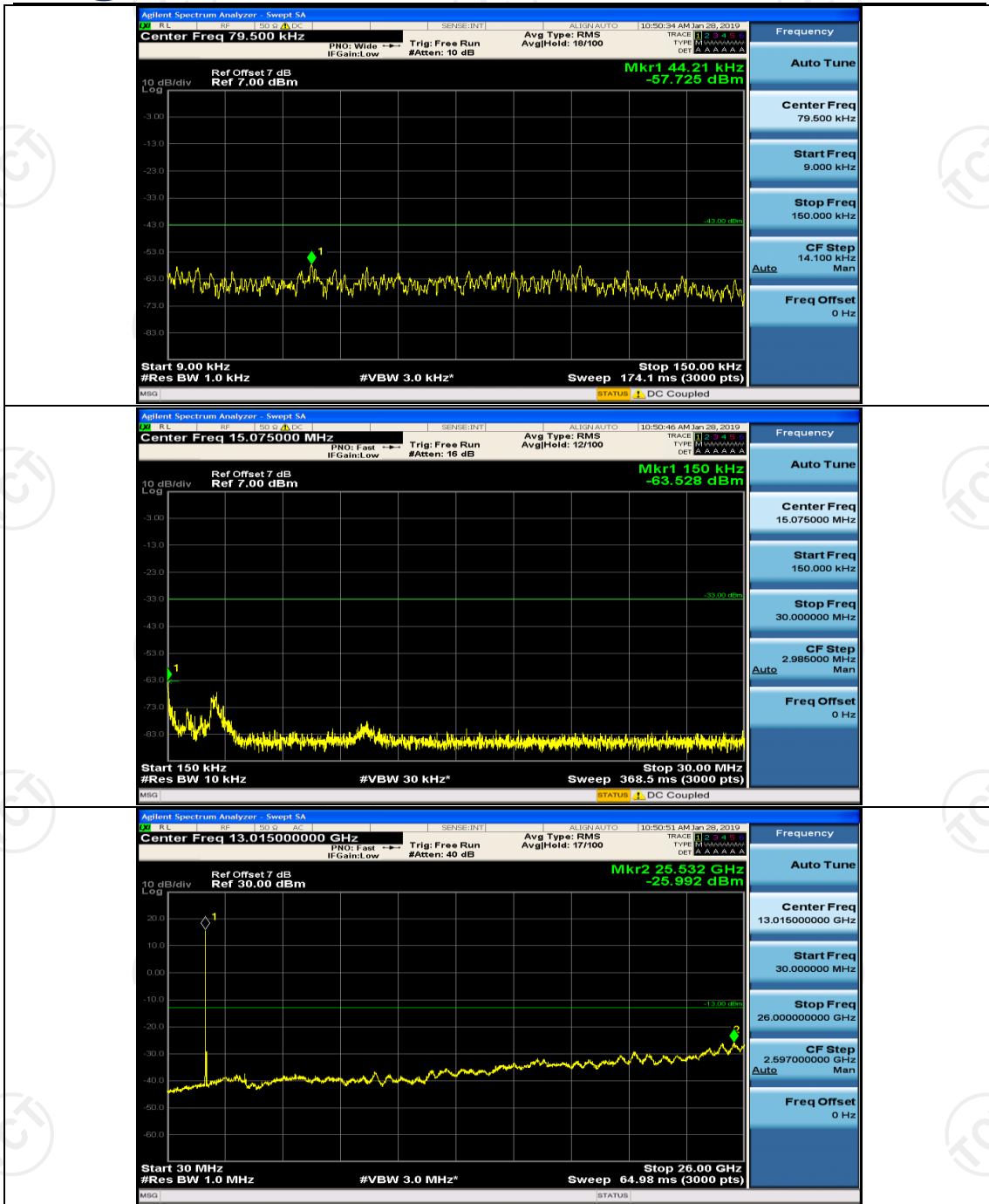


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	11.4	TN	-0.006700	± 2.5	PASS
		12.0	TN	0.002659	± 2.5	PASS
		12.6	TN	-0.021079	± 2.5	PASS
	MCH	11.4	TN	-0.021489	± 2.5	PASS
		12.0	TN	-0.007548	± 2.5	PASS
		12.6	TN	-0.024147	± 2.5	PASS
	HCH	11.4	TN	0.002198	± 2.5	PASS
		12.0	TN	-0.005049	± 2.5	PASS
		12.6	TN	0.000049	± 2.5	PASS
16QAM	LCH	11.4	TN	-0.000921	± 2.5	PASS
		12.0	TN	-0.007275	± 2.5	PASS
		12.6	TN	-0.001964	± 2.5	PASS
	MCH	11.4	TN	-0.003301	± 2.5	PASS
		12.0	TN	-0.014908	± 2.5	PASS
		12.6	TN	-0.022344	± 2.5	PASS
	HCH	11.4	TN	0.003113	± 2.5	PASS
		12.0	TN	-0.018323	± 2.5	PASS
		12.6	TN	0.000791	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	12.0	-30	-0.006635	± 2.5	PASS
		12.0	-20	-0.005608	± 2.5	PASS
		12.0	-10	-0.006790	± 2.5	PASS
		12.0	0	-0.008485	± 2.5	PASS
		12.0	10	-0.007433	± 2.5	PASS
		12.0	20	0.000962	± 2.5	PASS
		12.0	30	-0.003077	± 2.5	PASS
		12.0	40	-0.005486	± 2.5	PASS
	MCH	12.0	50	-0.005569	± 2.5	PASS
		12.0	-30	-0.008494	± 2.5	PASS
		12.0	-20	-0.010826	± 2.5	PASS
		12.0	-10	-0.011960	± 2.5	PASS
		12.0	0	-0.010979	± 2.5	PASS
		12.0	10	-0.007452	± 2.5	PASS
		12.0	20	-0.010164	± 2.5	PASS
		12.0	30	-0.011232	± 2.5	PASS
12.0	40	-0.011403	± 2.5	PASS		

	HCH	12.0	50	-0.014827	± 2.5	PASS
		12.0	-30	-0.019371	± 2.5	PASS
		12.0	-20	-0.022487	± 2.5	PASS
		12.0	-10	0.000827	± 2.5	PASS
		12.0	0	-0.004227	± 2.5	PASS
		12.0	10	-0.004568	± 2.5	PASS
		12.0	20	-0.009543	± 2.5	PASS
		12.0	30	-0.011199	± 2.5	PASS
		12.0	40	-0.014102	± 2.5	PASS
		12.0	50	-0.014174	± 2.5	PASS
16QAM	LCH	12.0	-30	-0.003554	± 2.5	PASS
		12.0	-20	-0.004997	± 2.5	PASS
		12.0	-10	-0.006741	± 2.5	PASS
		12.0	0	-0.008151	± 2.5	PASS
		12.0	10	-0.005642	± 2.5	PASS
		12.0	20	-0.008421	± 2.5	PASS
		12.0	30	-0.006155	± 2.5	PASS
		12.0	40	-0.009173	± 2.5	PASS
	MCH	12.0	50	-0.009759	± 2.5	PASS
		12.0	-30	-0.010519	± 2.5	PASS
		12.0	-20	-0.012209	± 2.5	PASS
		12.0	-10	-0.015170	± 2.5	PASS
		12.0	0	-0.017021	± 2.5	PASS
		12.0	10	-0.006548	± 2.5	PASS
		12.0	20	-0.015096	± 2.5	PASS
		12.0	30	-0.014590	± 2.5	PASS
	HCH	12.0	40	-0.014378	± 2.5	PASS
		12.0	50	-0.012773	± 2.5	PASS
		12.0	-30	-0.007059	± 2.5	PASS
		12.0	-20	-0.011035	± 2.5	PASS
		12.0	-10	-0.010099	± 2.5	PASS
		12.0	0	-0.011736	± 2.5	PASS
		12.0	10	-0.009645	± 2.5	PASS
		12.0	20	-0.018033	± 2.5	PASS
	12.0	30	-0.019432	± 2.5	PASS	
	12.0	40	-0.020566	± 2.5	PASS	
	12.0	50	0.008353	± 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	Level (dBm)		
3421.4	Vertical	-26.75	-13.00	PASS
5132.1	V	-33.47		
-	V	-		
3421.4	Horizontal	-24.28		
5132.1	H	-32.49		
-	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	Level (dBm)		
3510.0	Vertical	-26.94	-13.00	PASS
5265.0	V	-34.05		
-	V	-		
3510.0	Horizontal	-25.36		
5265.0	H	-32.87		
-	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	Level (dBm)		
3558.6	Vertical	-27.12	-13.00	PASS
5337.9	V	-34.27		
-	V	-		
3558.6	Horizontal	-26.38		

5337.9	H	-35.71	
-	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	Level (dBm)		
3421.4	Vertical	-27.35	-13.00	PASS
5132.1	V	-34.36		
-	V	-		
3421.4	Horizontal	-25.83		
5132.1	H	-33.04		
-	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	Level (dBm)		
3510.0	Vertical	-27.69	-13.00	PASS
5265.0	V	-35.68		
-	V	-		
3510.0	Horizontal	-26.34		
5265.0	H	-34.87		
-	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	Level (dBm)		
3558.6	Vertical	-28.02	-13.00	PASS
5337.9	V	-35.68		
-	V	-		
3558.6	Horizontal	-27.45		
5337.9	H	-34.88		
-	H	-		

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

