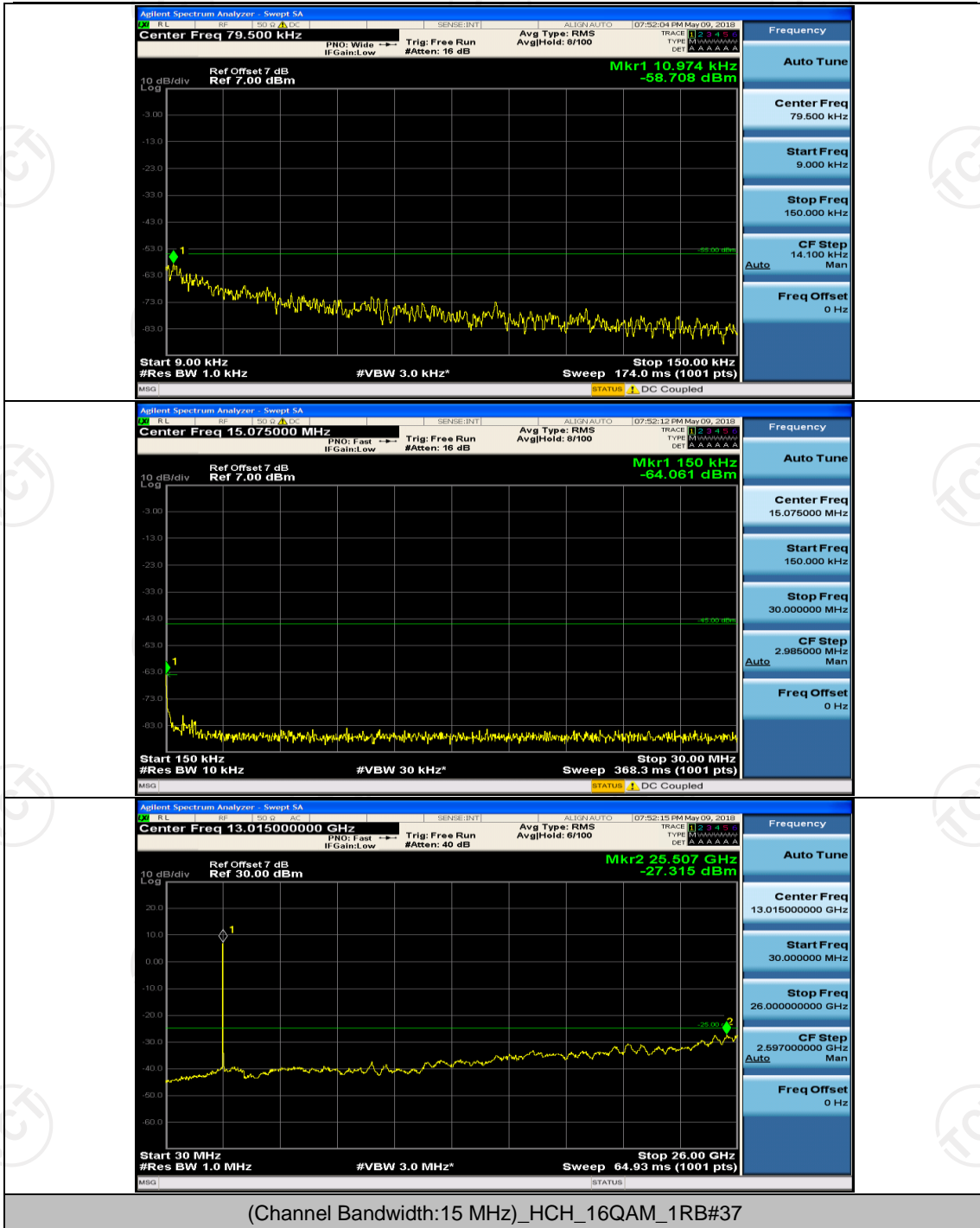
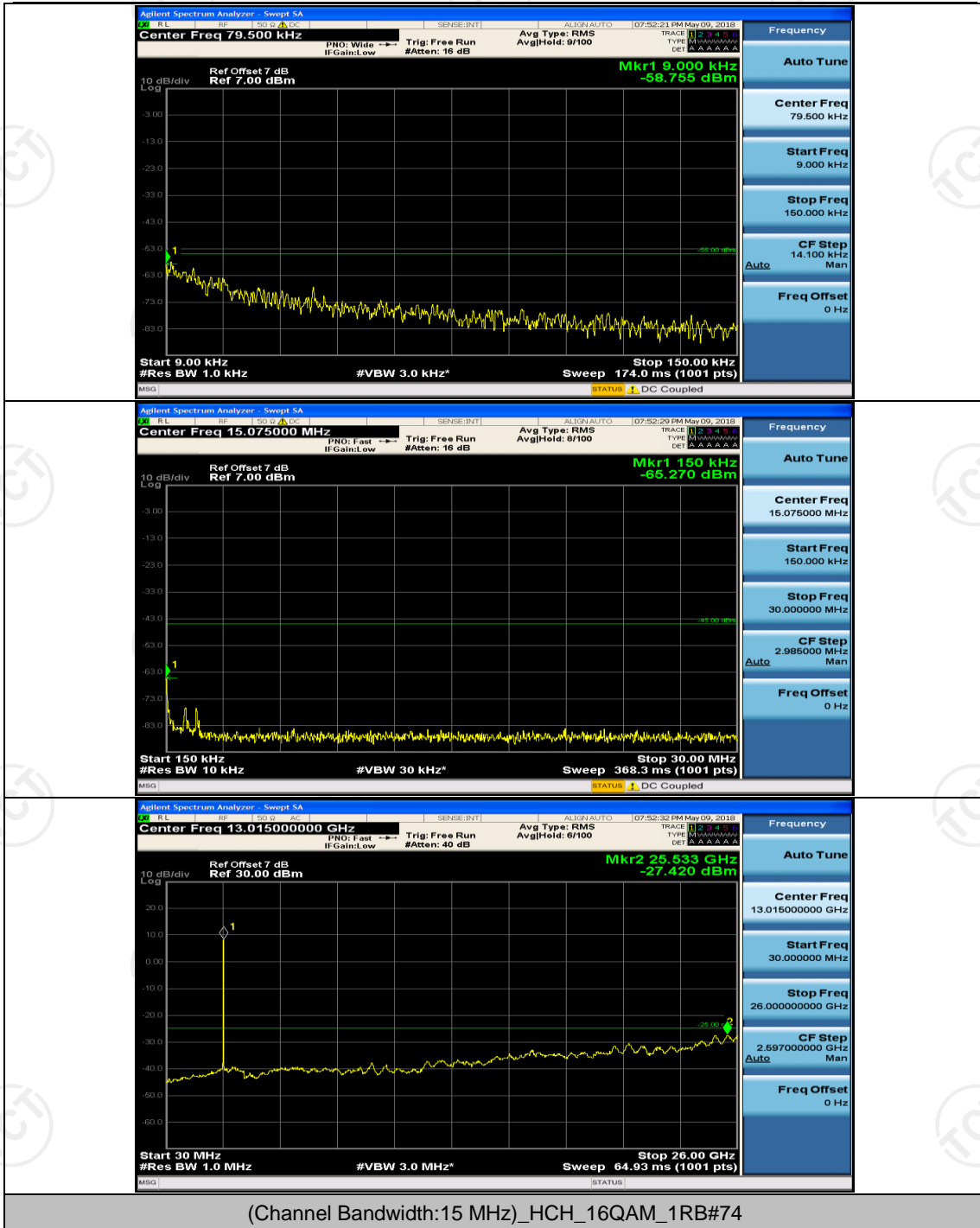
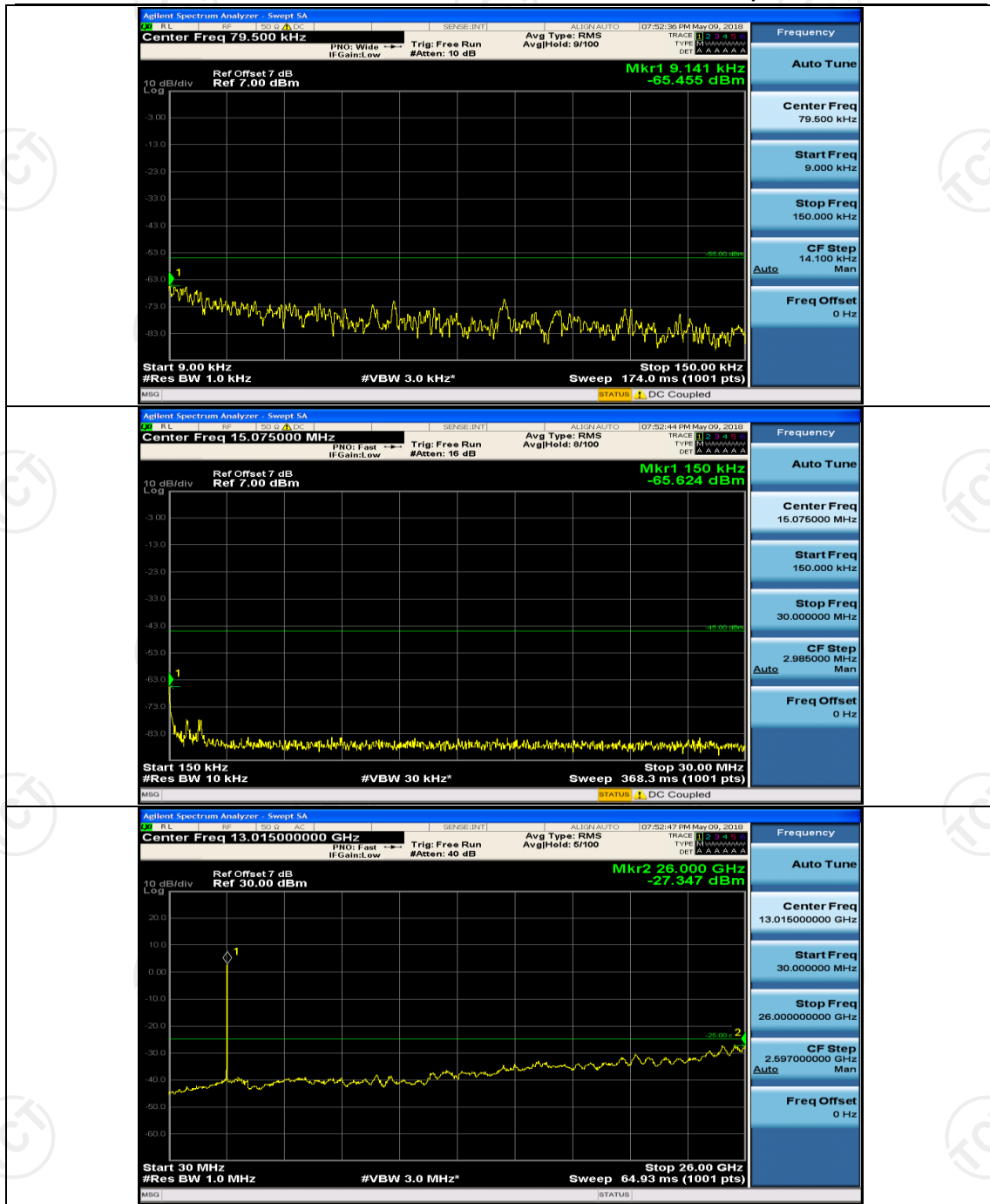


(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0



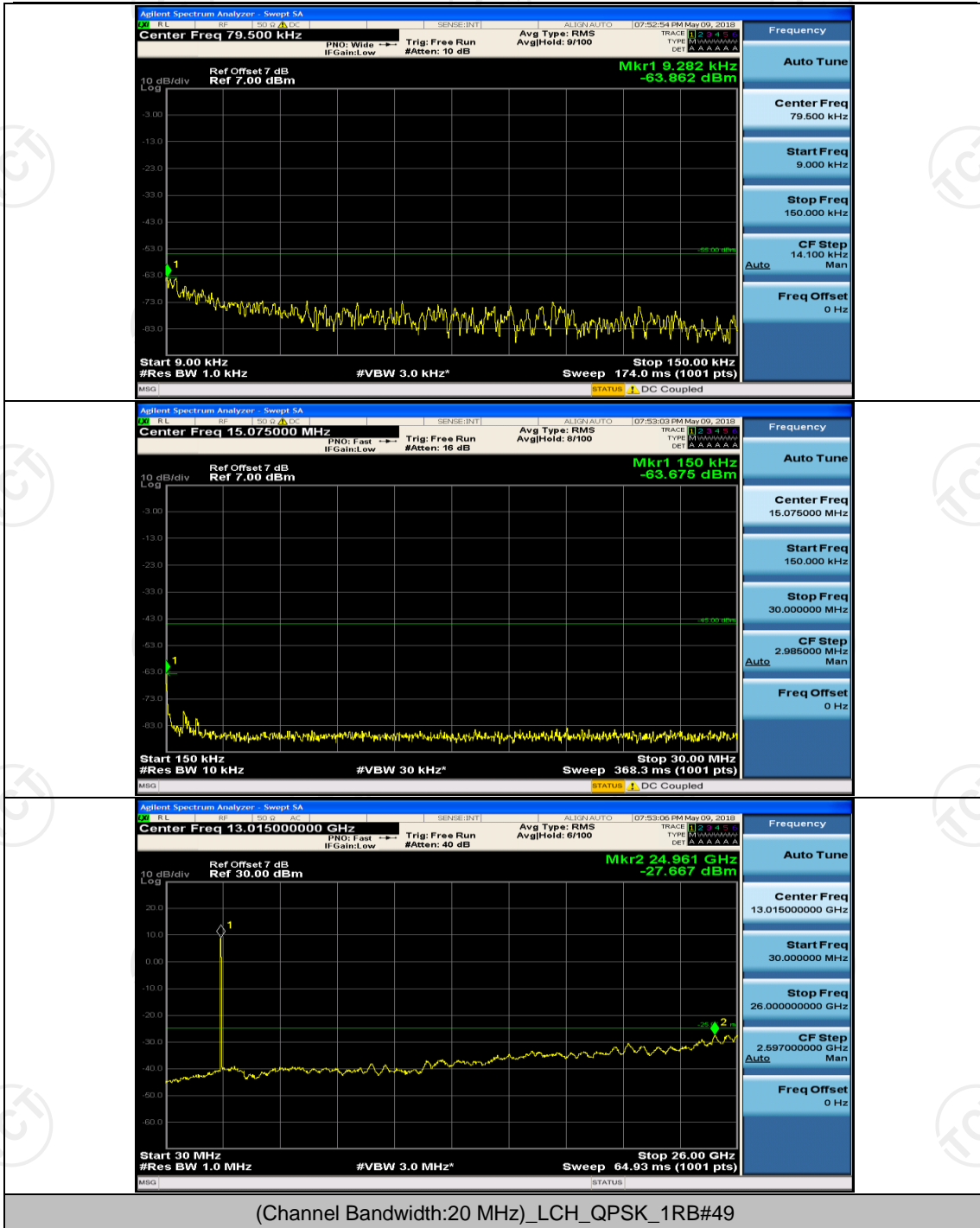
(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#37

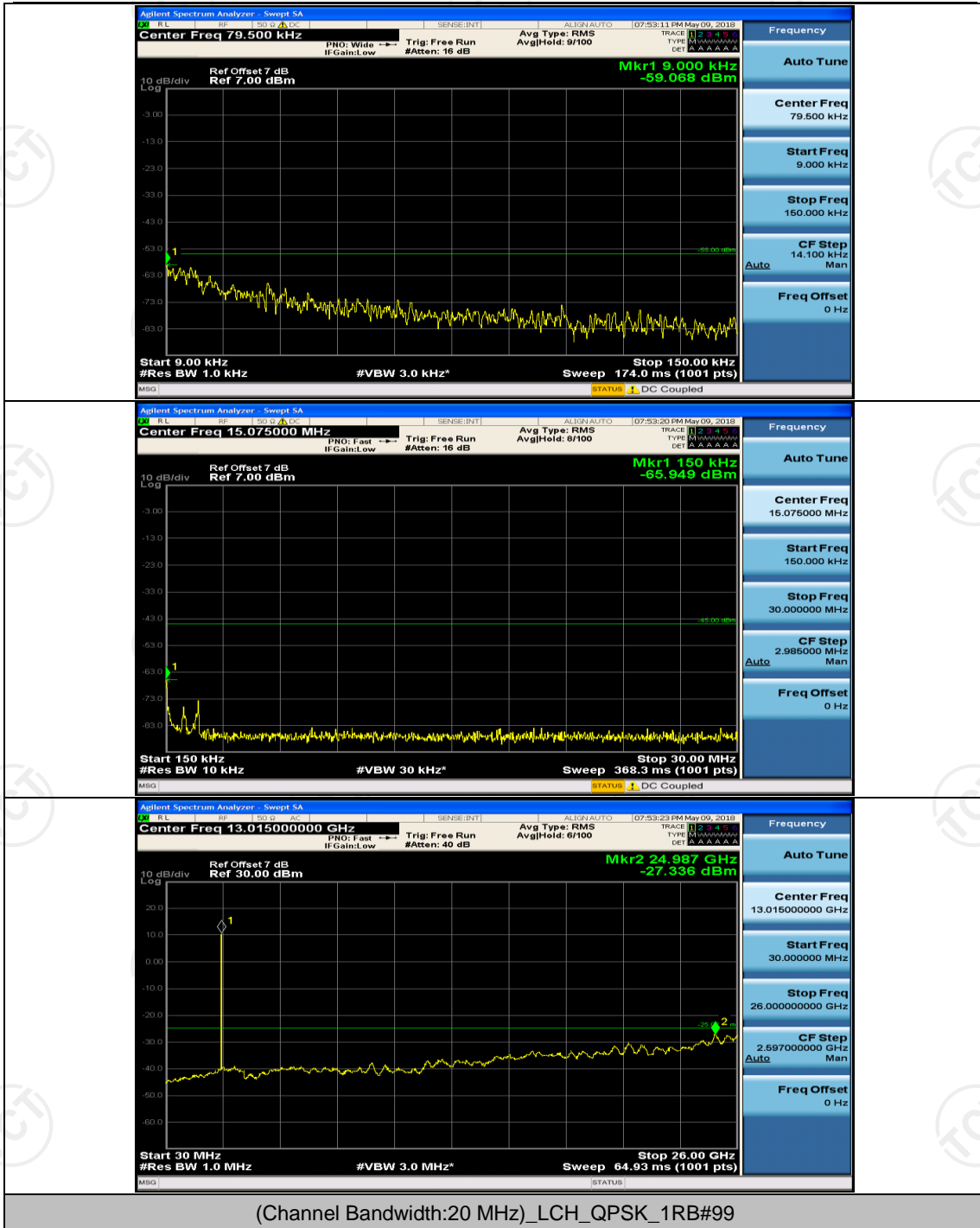




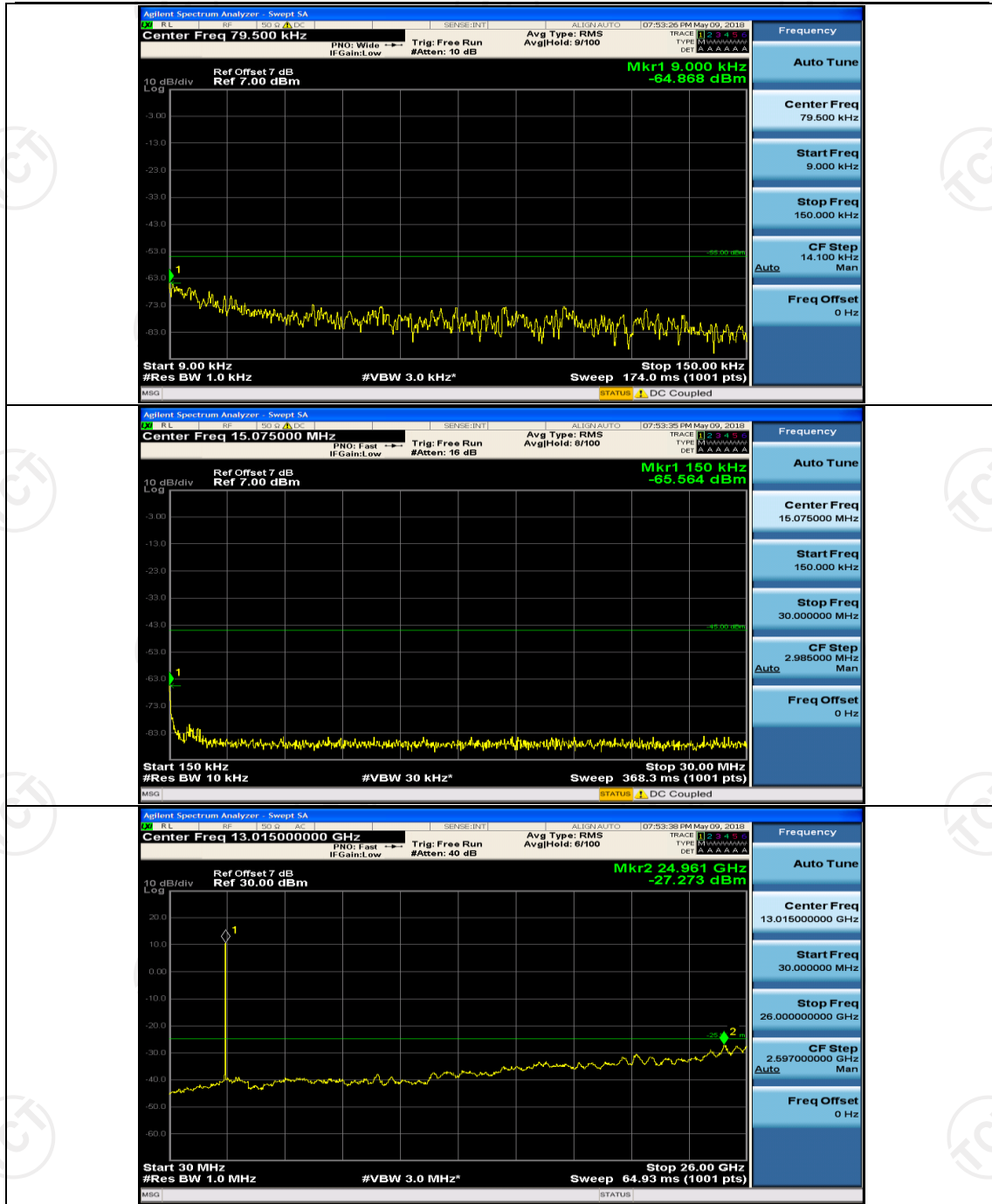
## Channel Bandwidth: 20 MHz

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

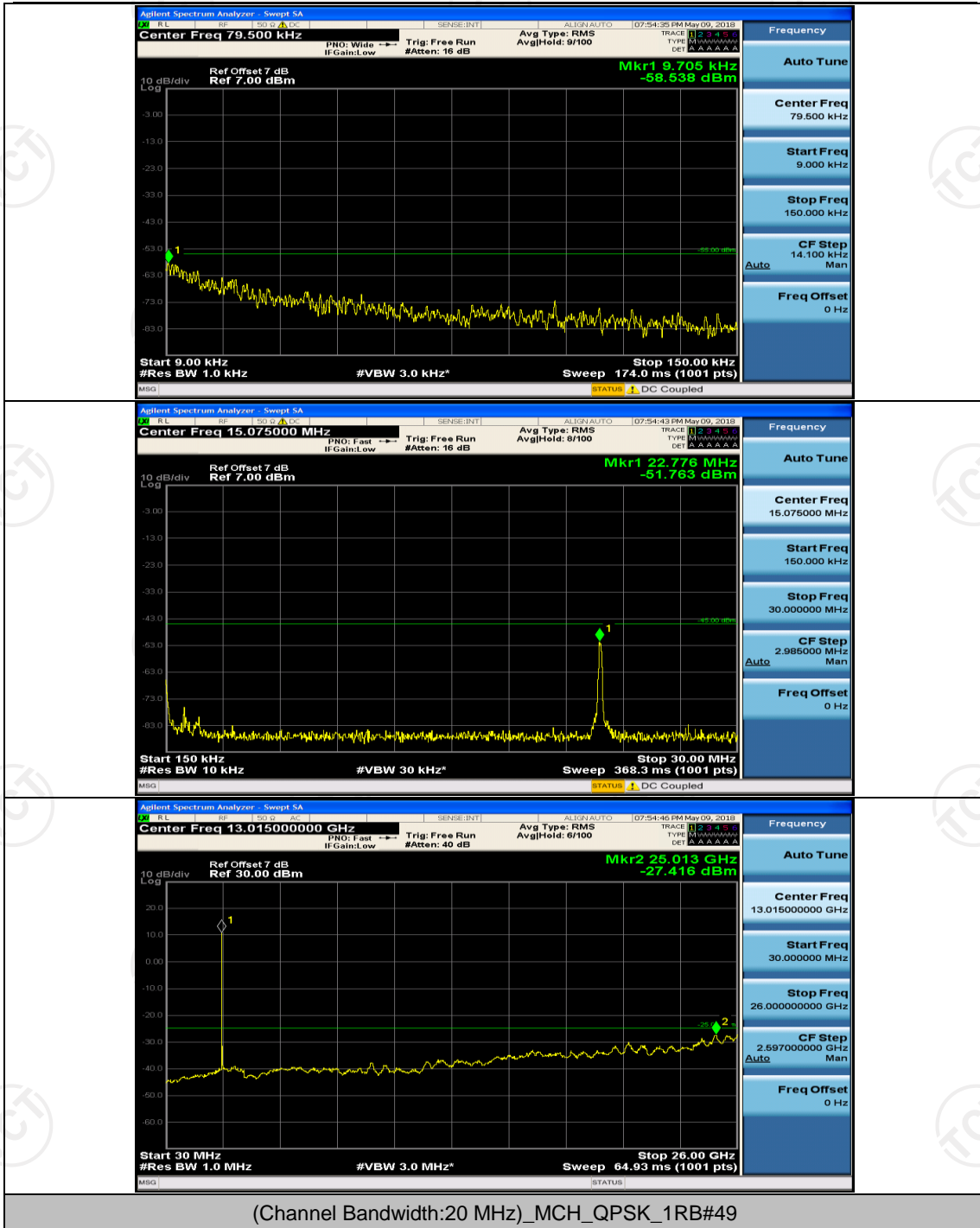


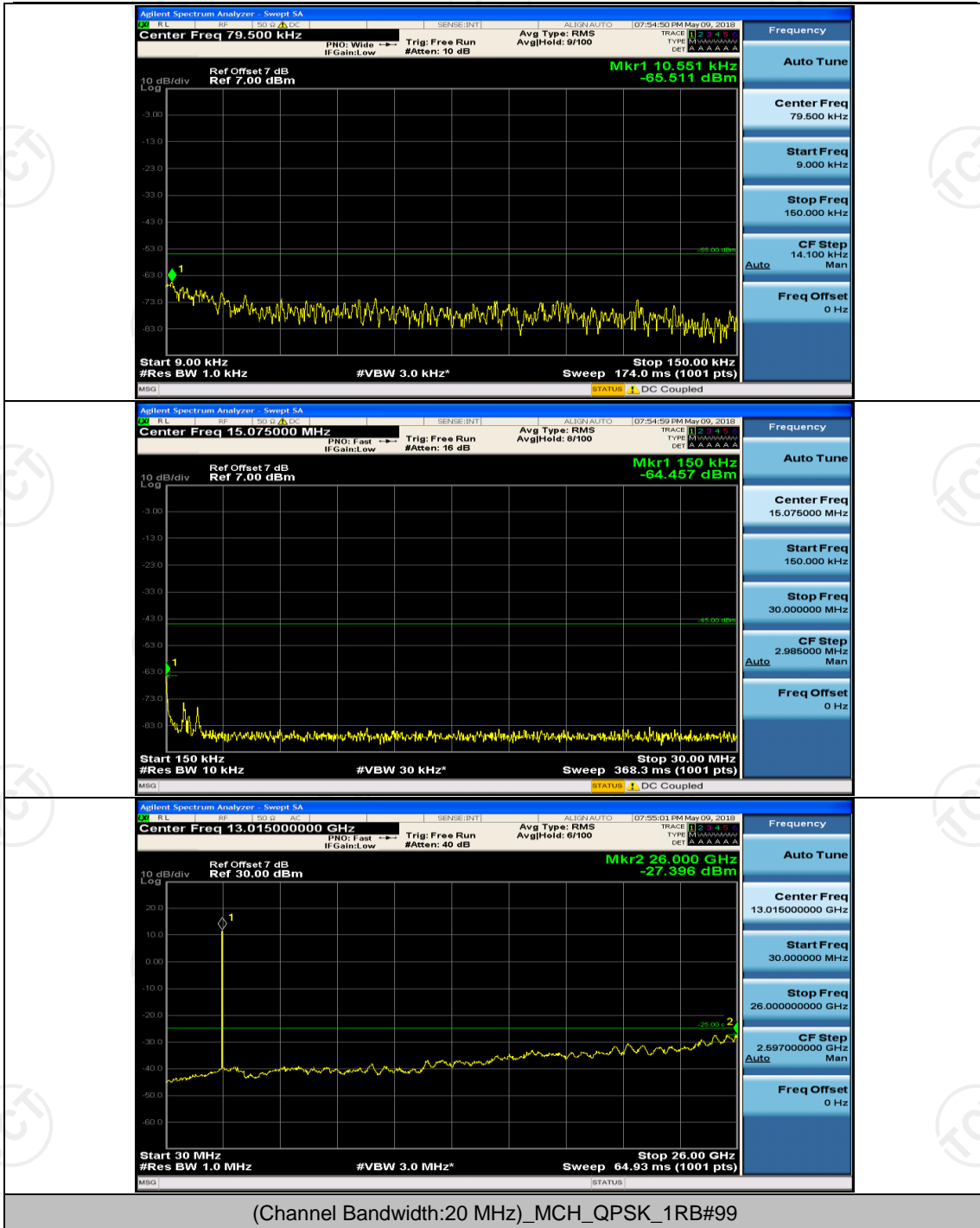


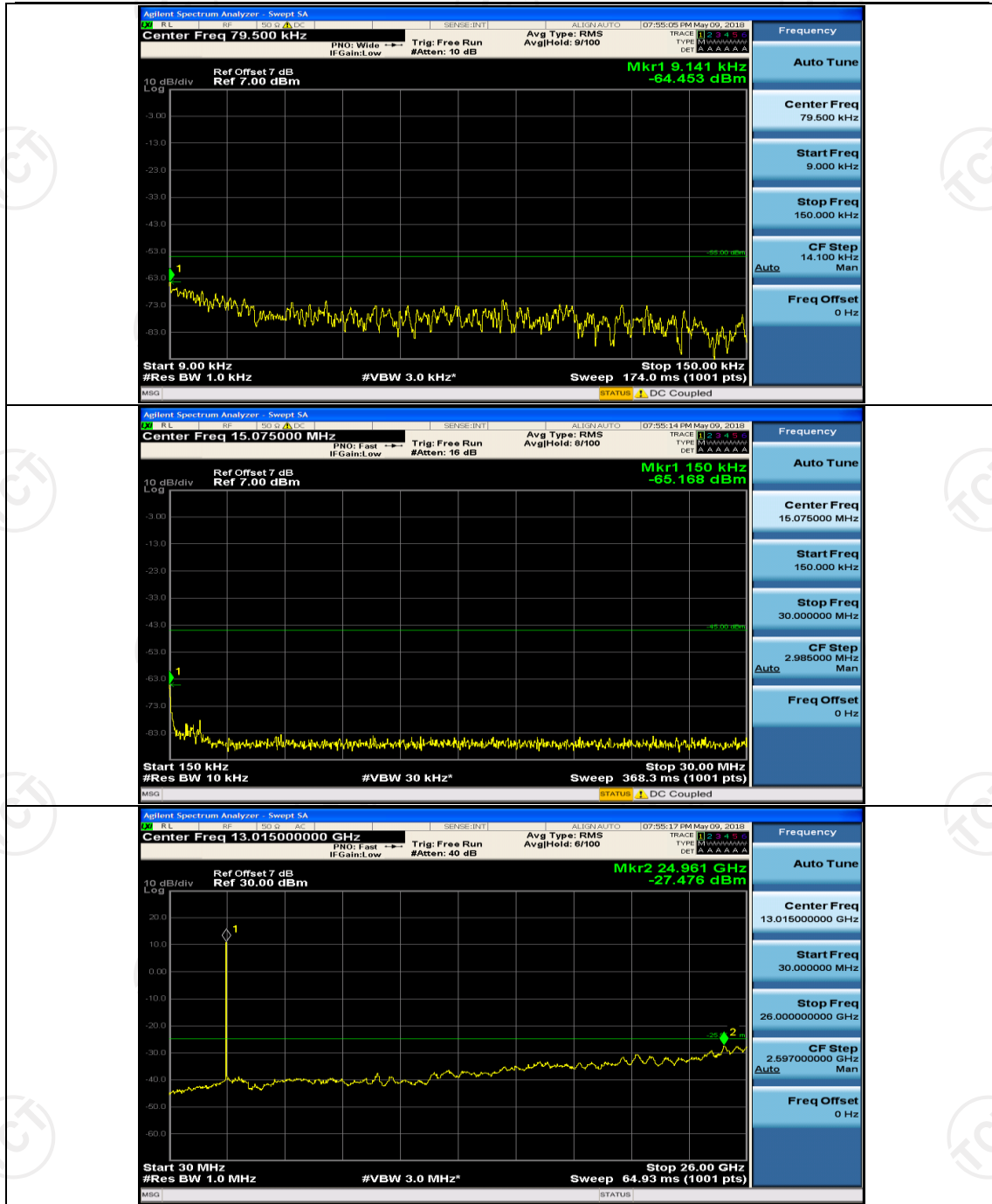




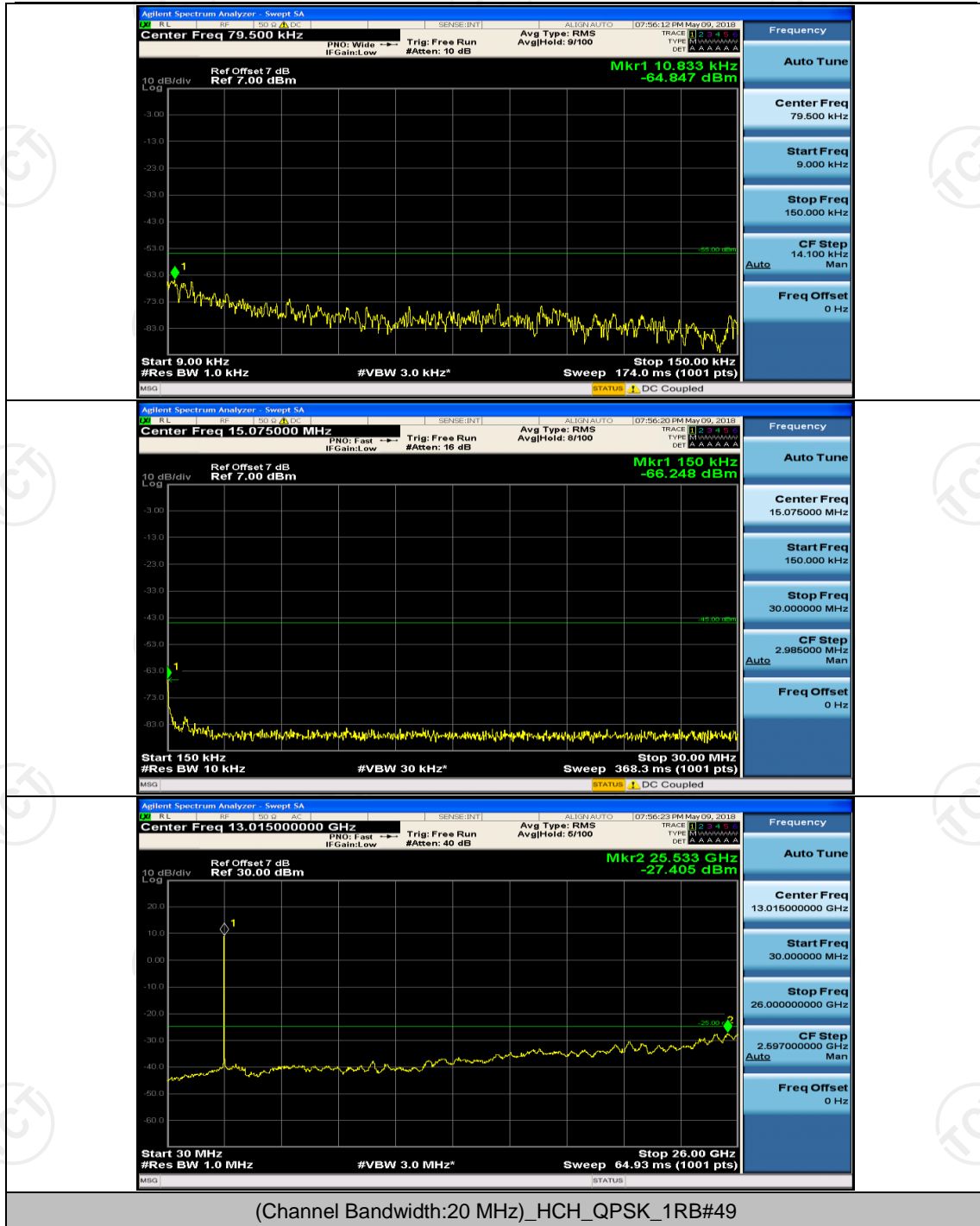
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0

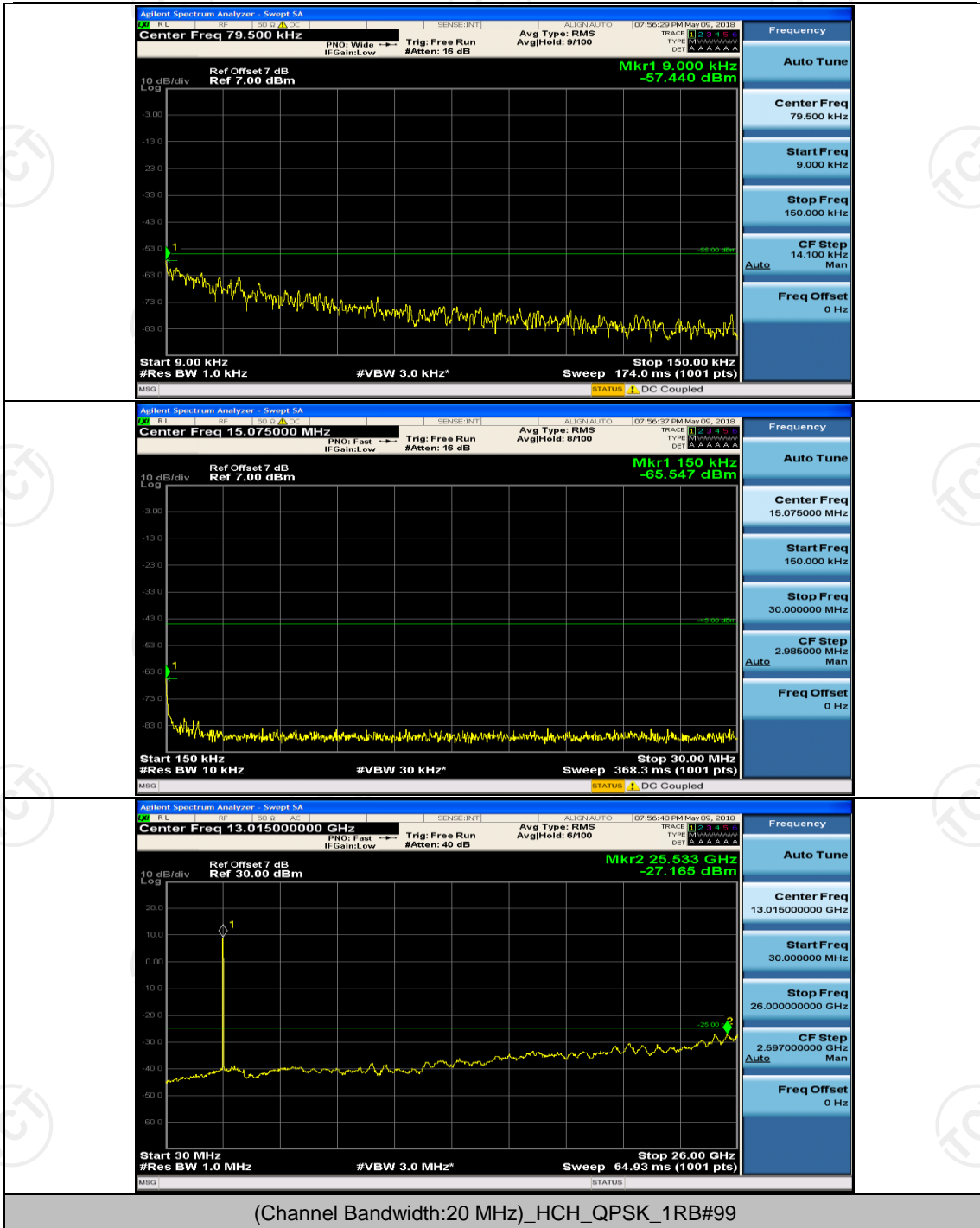




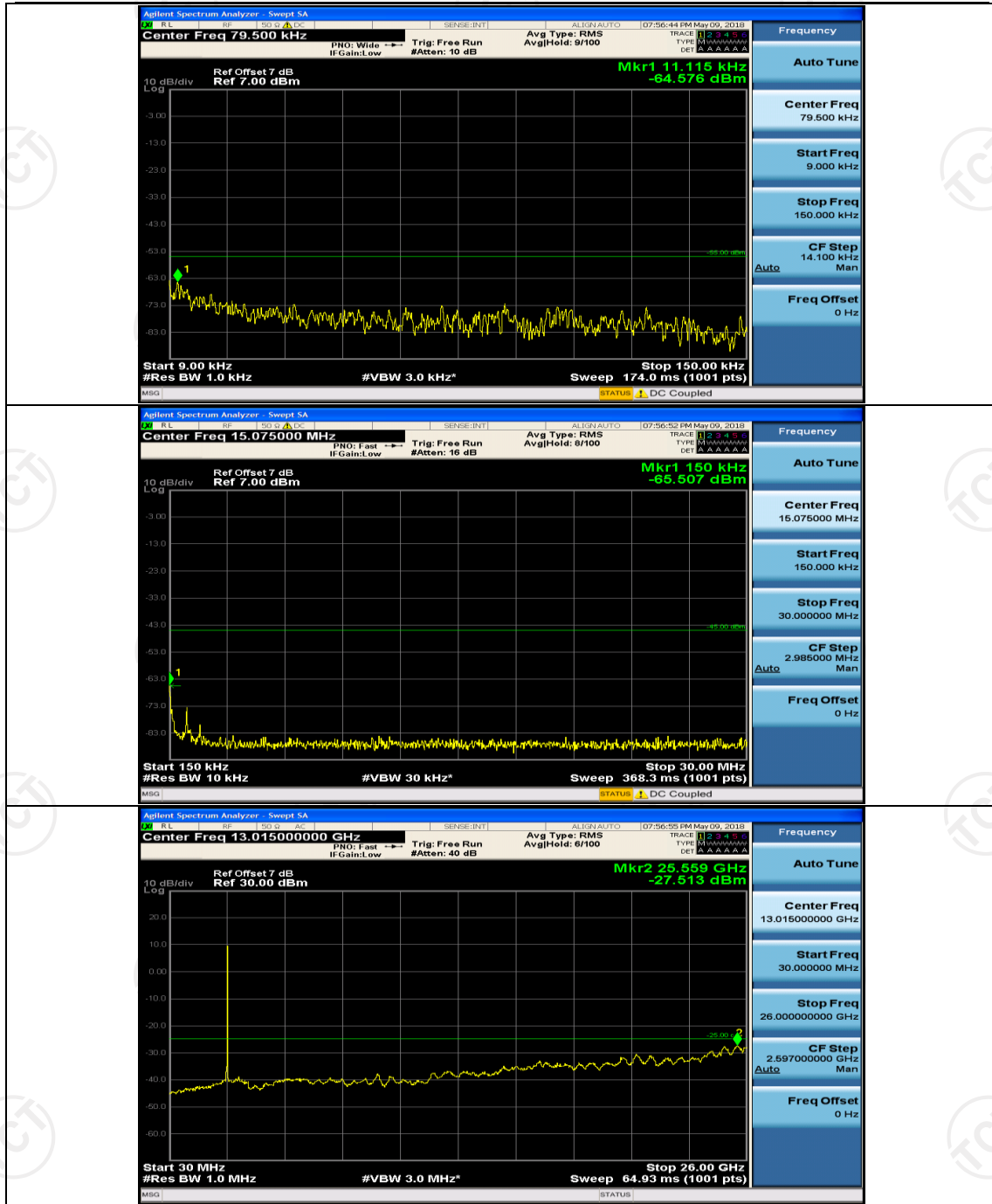


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

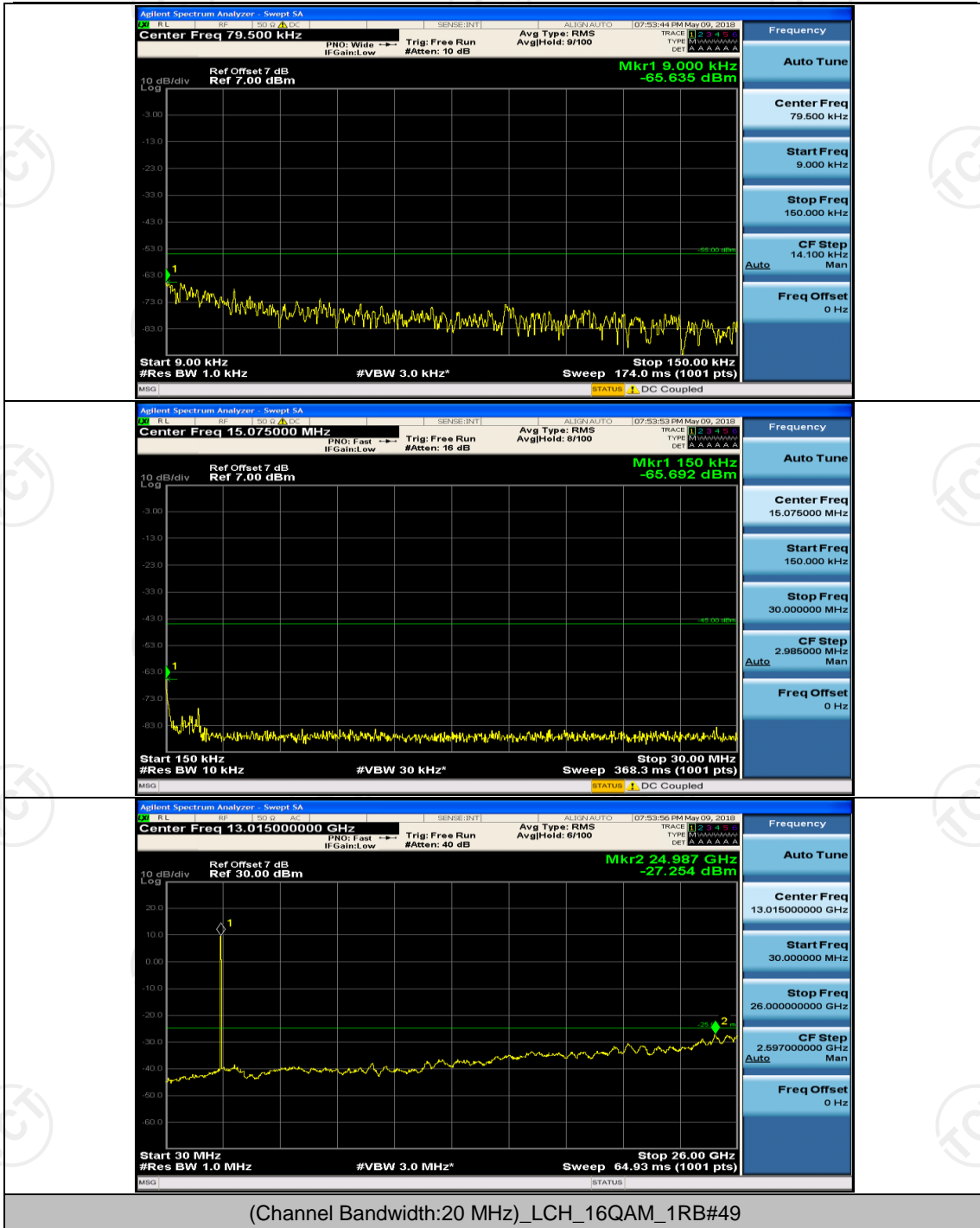




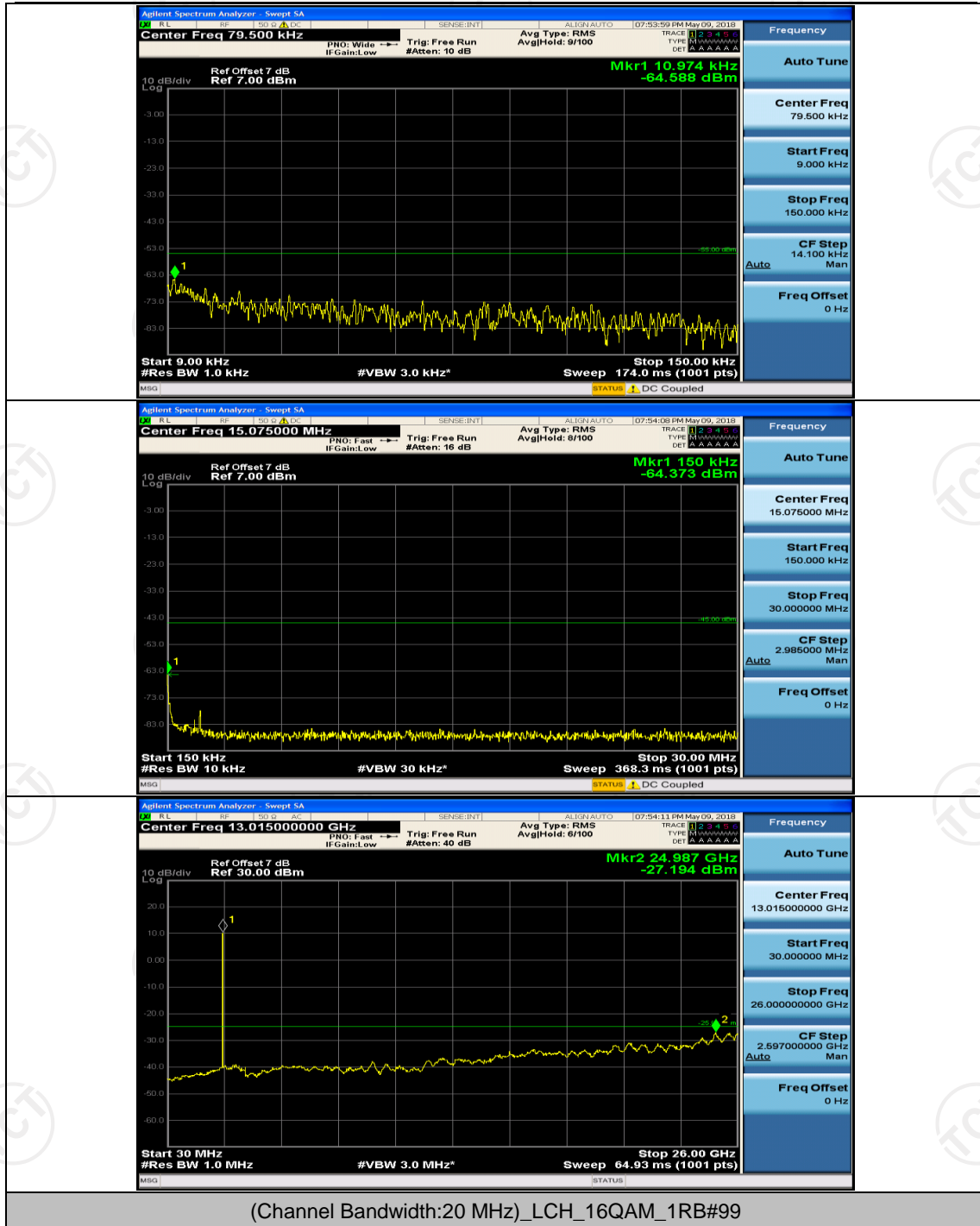
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#99

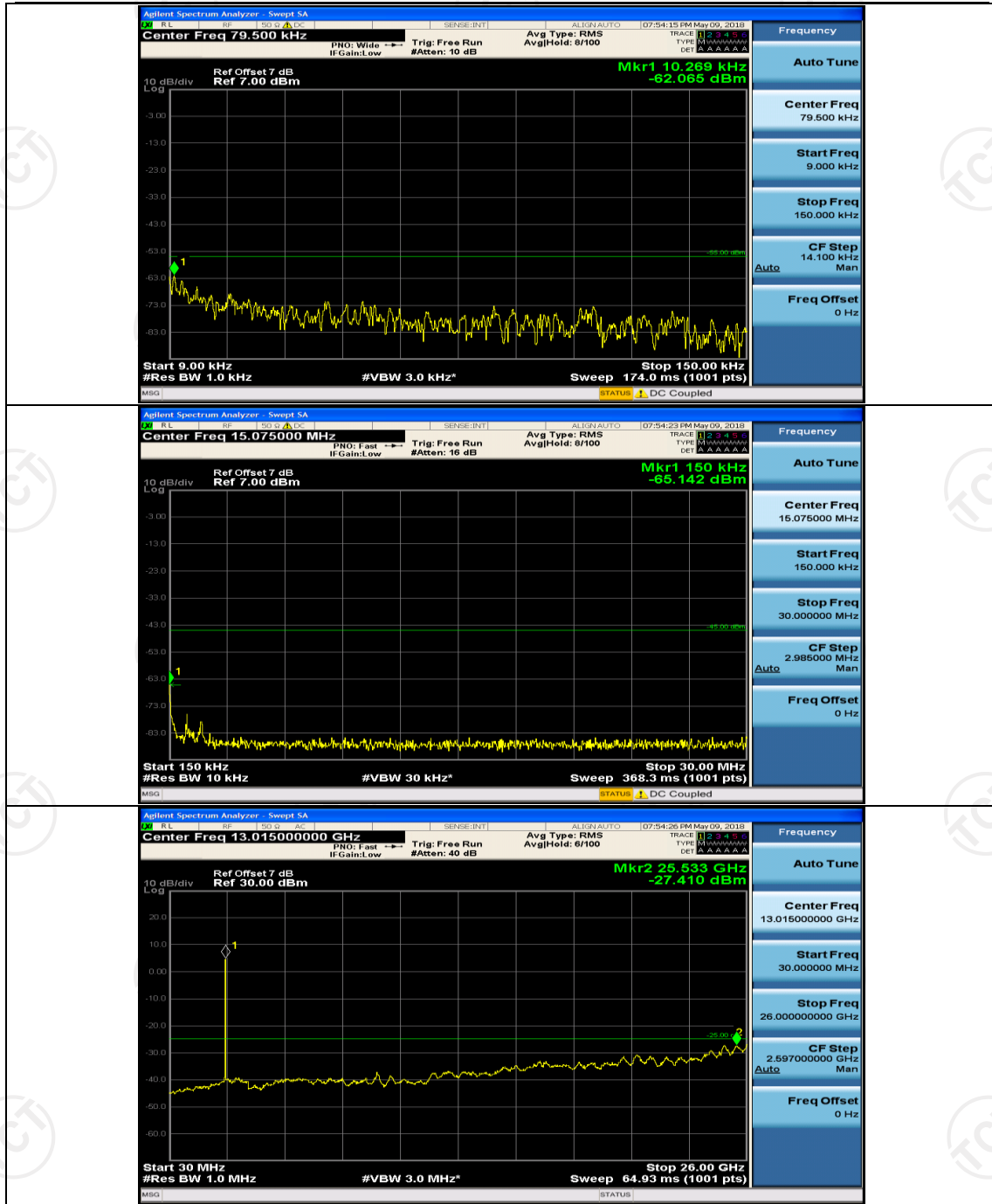


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

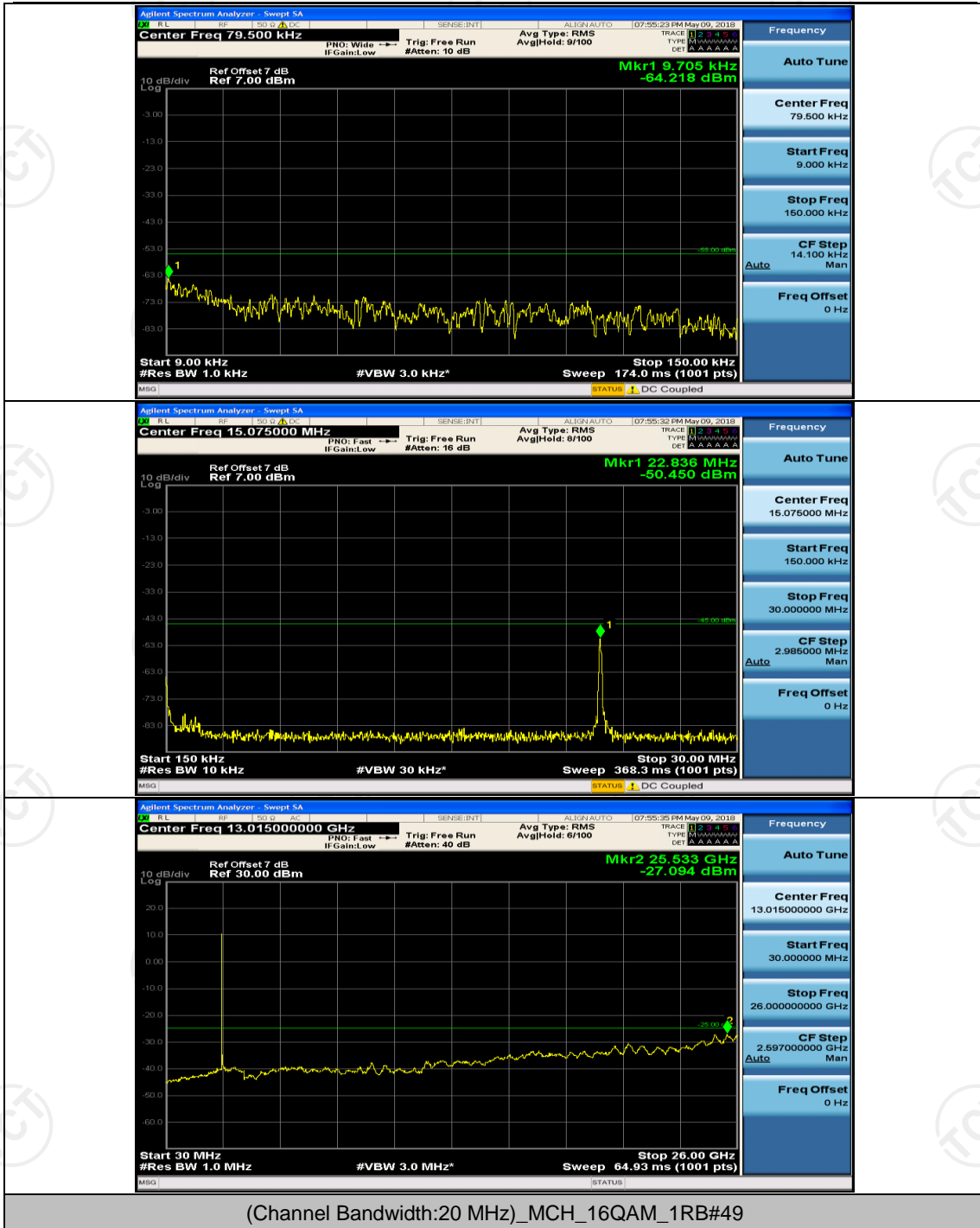


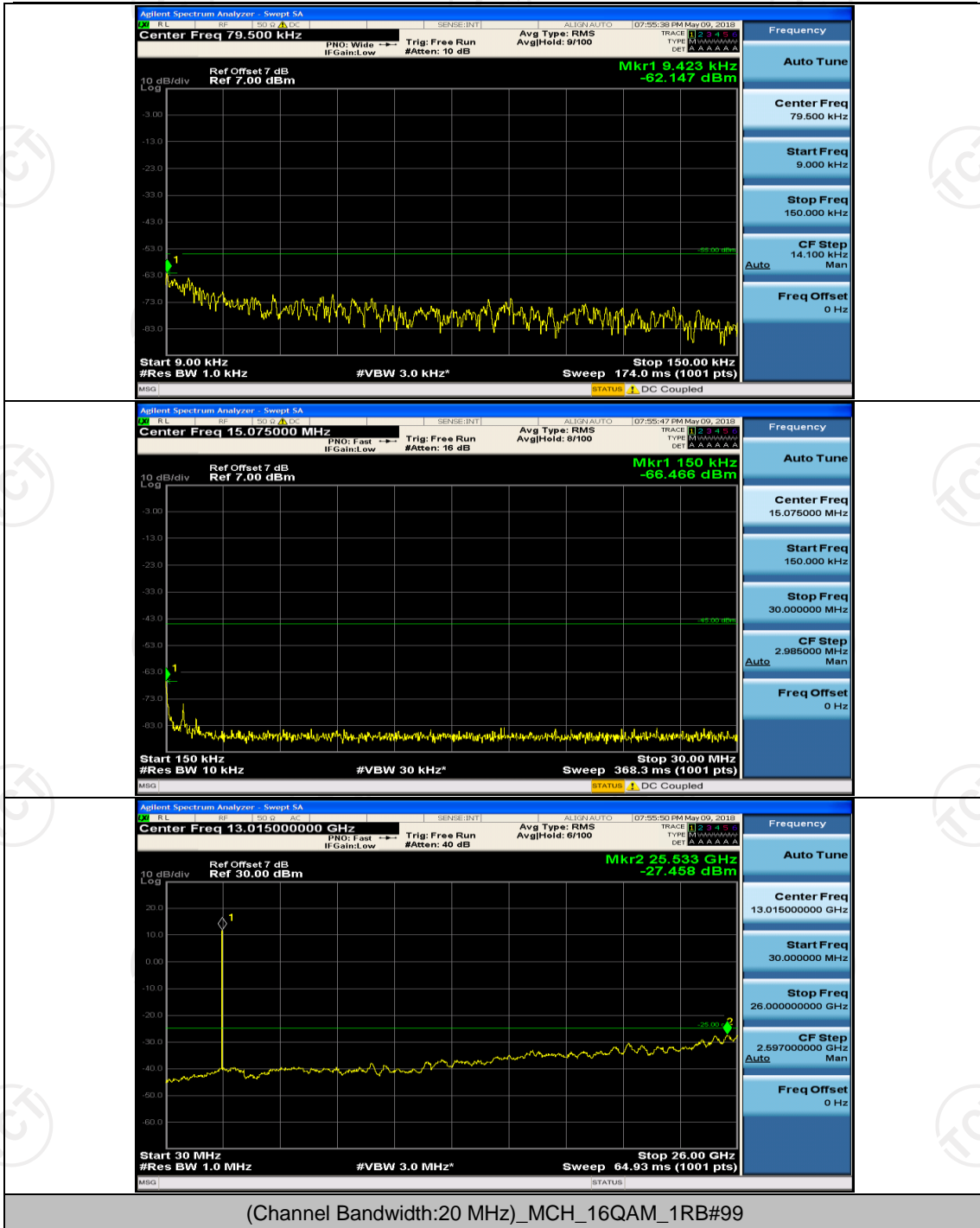


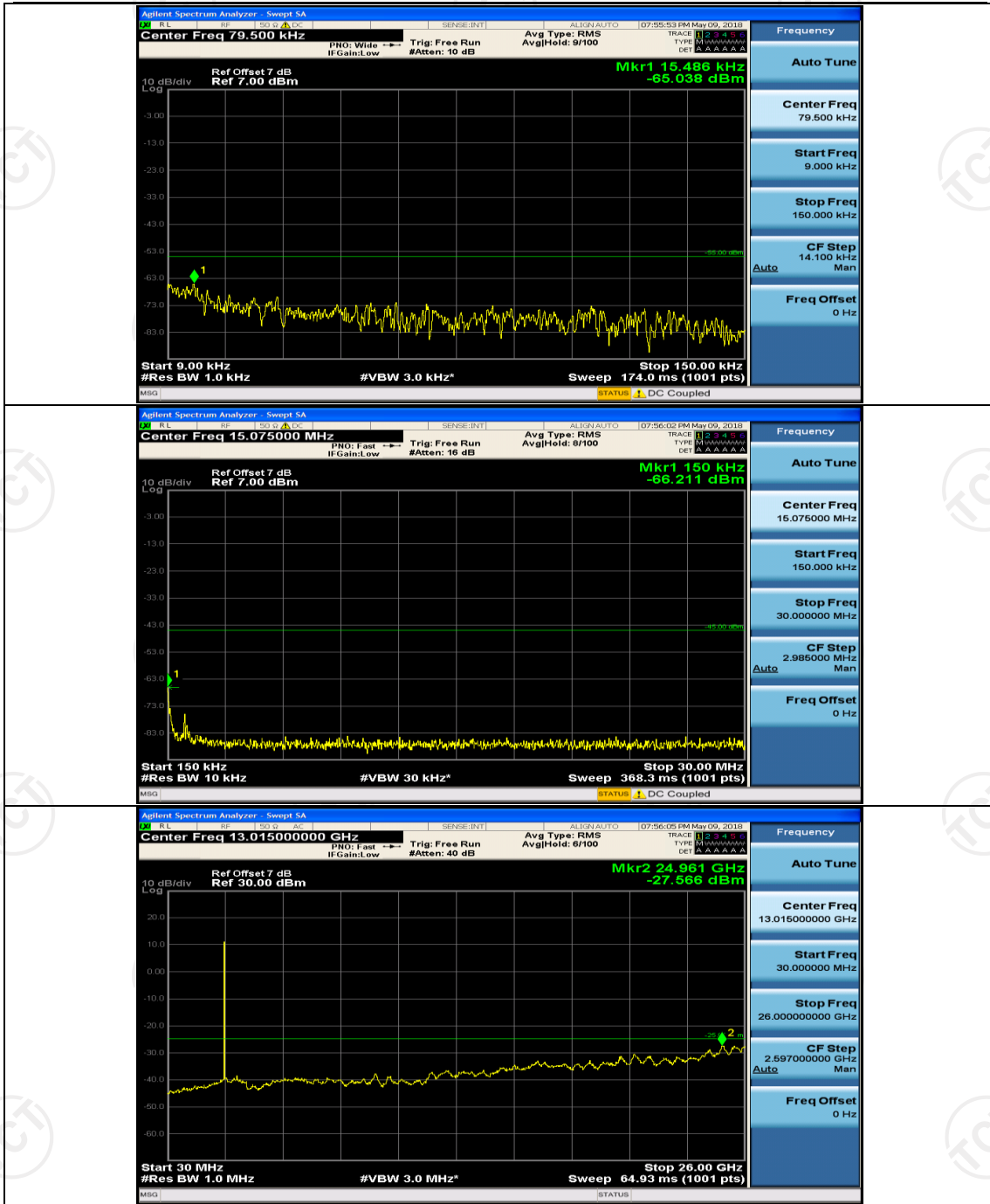




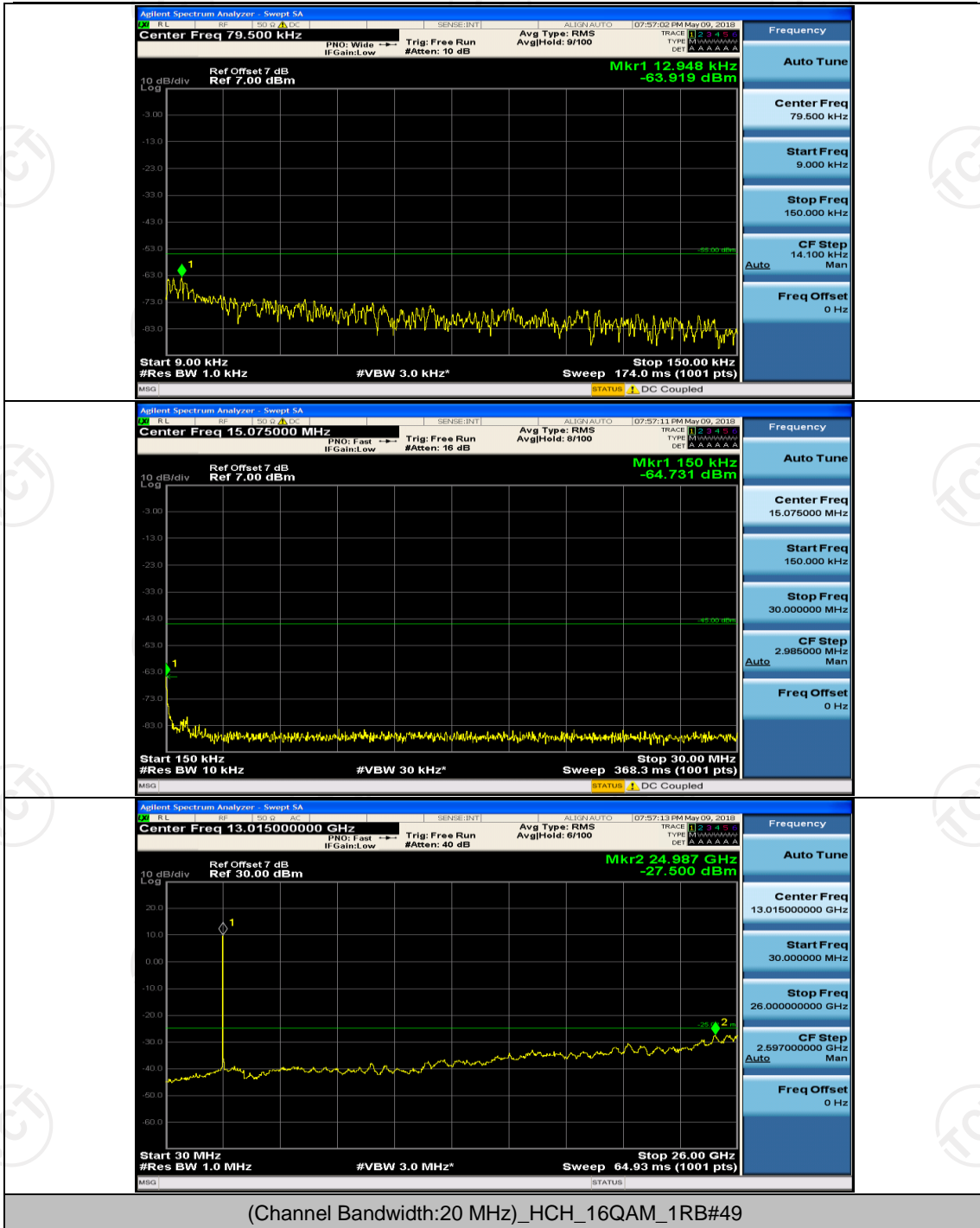
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

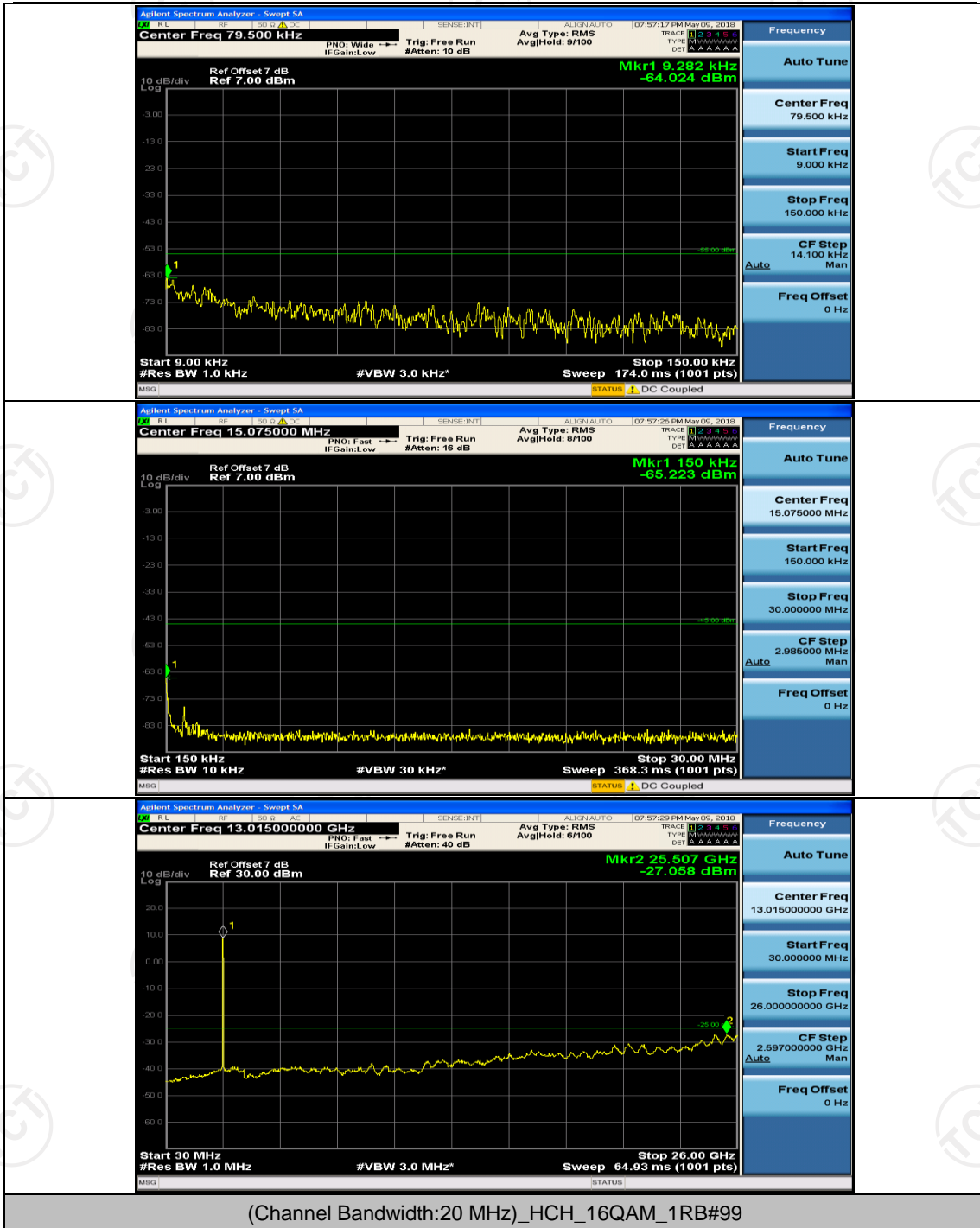


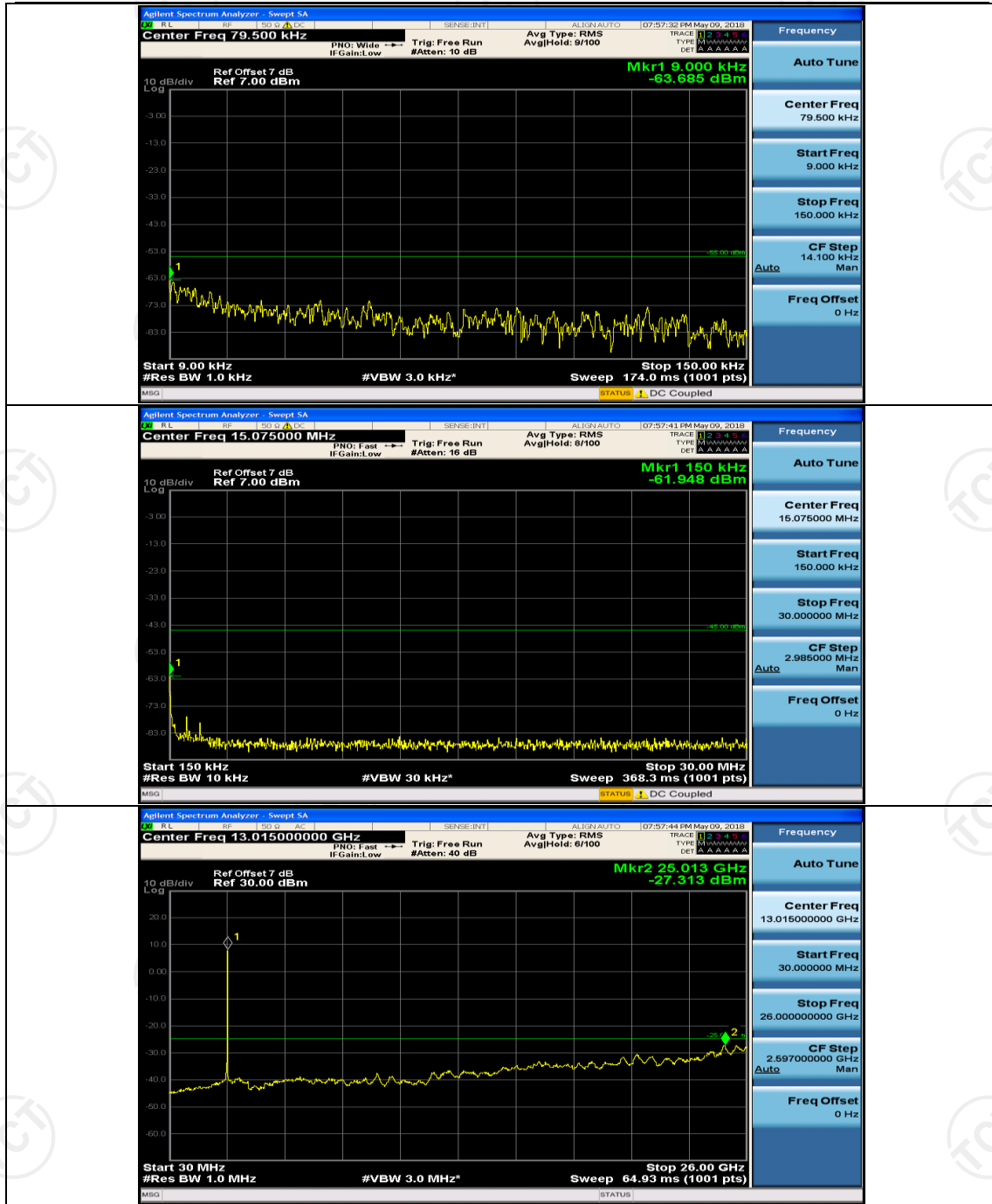




(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0









## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.3	25	-0.002475	± 2.5	PASS
		3.8	25	-0.002351	± 2.5	PASS
		4.2	25	-0.001455	± 2.5	PASS
	MCH	3.3	25	-0.002640	± 2.5	PASS
		3.8	25	0.001753	± 2.5	PASS
		4.2	25	0.002342	± 2.5	PASS
	HCH	3.3	25	0.000124	± 2.5	PASS
		3.8	25	-0.002043	± 2.5	PASS
		4.2	25	0.000346	± 2.5	PASS
16QAM	LCH	3.3	25	-0.001438	± 2.5	PASS
		3.8	25	-0.003146	± 2.5	PASS
		4.2	25	-0.001623	± 2.5	PASS
	MCH	3.3	25	-0.001372	± 2.5	PASS
		3.8	25	-0.003142	± 2.5	PASS
		4.2	25	-0.001643	± 2.5	PASS
	HCH	3.3	25	-0.001534	± 2.5	PASS
		3.8	25	-0.001543	± 2.5	PASS
		4.2	25	-0.000614	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.8	-30	-0.001453	± 2.5	PASS
		3.8	-20	-0.002372	± 2.5	PASS
		3.8	-10	-0.001374	± 2.5	PASS
		3.8	0	-0.002374	± 2.5	PASS
		3.8	10	-0.000232	± 2.5	PASS
		3.8	20	-0.001273	± 2.5	PASS
		3.8	30	-0.001765	± 2.5	PASS
		3.8	40	-0.004424	± 2.5	PASS
		3.8	50	-0.002345	± 2.5	PASS
	MCH	3.8	-30	-0.003465	± 2.5	PASS
		3.8	-20	-0.002234	± 2.5	PASS
		3.8	-10	-0.001564	± 2.5	PASS
		3.8	0	-0.001437	± 2.5	PASS
		3.8	10	-0.002354	± 2.5	PASS
		3.8	20	0.000463	± 2.5	PASS

		3.8	30	0.000674	± 2.5	PASS	
		3.8	40	0.001343	± 2.5	PASS	
		3.8	50	-0.001034	± 2.5	PASS	
	HCH	3.8	-30	-0.000824	± 2.5	PASS	
		3.8	-20	-0.000433	± 2.5	PASS	
		3.8	-10	-0.000645	± 2.5	PASS	
		3.8	0	0.000243	± 2.5	PASS	
		3.8	10	0.000867	± 2.5	PASS	
		3.8	20	-0.001534	± 2.5	PASS	
		3.8	30	-0.002543	± 2.5	PASS	
		3.8	40	-0.002343	± 2.5	PASS	
		3.8	50	-0.000545	± 2.5	PASS	
		16QAM	LCH	3.8	-30	-0.006344	± 2.5
3.8	-20			-0.002354	± 2.5	PASS	
3.8	-10			-0.001645	± 2.5	PASS	
3.8	0			-0.001530	± 2.5	PASS	
3.8	10			-0.001237	± 2.5	PASS	
3.8	20			-0.000963	± 2.5	PASS	
3.8	30			-0.001634	± 2.5	PASS	
3.8	40			-0.001924	± 2.5	PASS	
MCH	3.8		50	-0.000563	± 2.5	PASS	
	3.8		-30	-0.001537	± 2.5	PASS	
	3.8		-20	-0.001344	± 2.5	PASS	
	3.8		-10	-0.000204	± 2.5	PASS	
	3.8		0	-0.001531	± 2.5	PASS	
	3.8		10	-0.002347	± 2.5	PASS	
	3.8		20	-0.001234	± 2.5	PASS	
	3.8		30	-0.001361	± 2.5	PASS	
	3.8		40	-0.002370	± 2.5	PASS	
	3.8		50	-0.002735	± 2.5	PASS	
HCH	3.8		-30	-0.000864	± 2.5	PASS	
	3.8		-20	-0.000572	± 2.5	PASS	
	3.8		-10	-0.000547	± 2.5	PASS	
	3.8		0	-0.000832	± 2.5	PASS	
	3.8		10	-0.001273	± 2.5	PASS	
	3.8		20	-0.001450	± 2.5	PASS	
	3.8		30	-0.001534	± 2.5	PASS	
	3.8		40	-0.001863	± 2.5	PASS	
			3.8	50	-0.001643	± 2.5	PASS

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

## Appendix G :Field Strength of Spurious Radiation Measurement

### Test Result

<b>Bandwidth:</b>	<b>5M</b>		<b>Test channel:</b>	<b>Lowest</b>
<b>Modulation:</b>	<b>QPSK</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5075.0	Vertical	-43.44	-13.00	PASS
7612.5	V	-44.64		
-	V	-		
5075.0	Horizontal	-38.35		
7612.5	H	-41.67		
-	H	-		
<b>Bandwidth:</b>	<b>5M</b>		<b>Test channel:</b>	<b>Middle</b>
<b>Modulation:</b>	<b>QPSK</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5186	Vertical	-41.57	-13.00	PASS
7779	V	-46.88		
-	V	-		
5186	Horizontal	-41.65		
7779	H	-47.05		
-	H	-		
<b>Bandwidth:</b>	<b>5M</b>		<b>Test channel:</b>	<b>Highest</b>
<b>Modulation:</b>	<b>QPSK</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5295.2	Vertical	-42.65	-13.00	PASS
7942.8	V	-46.73		
-	V	-		

5295.2	Horizontal	-41.77		
7942.8	H	-45.67		
-	H	-		

<b>Bandwidth:</b>	<b>5M</b>	<b>Test channel:</b>	<b>Lowest</b>
<b>Modulation:</b>	<b>16QAM</b>	<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>	<b>Relative Humidity:</b>	<b>46~48%</b>

**Note:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5075.0	Vertical	-43.72	-13.00	PASS
7612.5	V	-47.67		
-	V	-		
5075.0	Horizontal	-42.65		
7612.5	H	-46.72		
-	H	-		

<b>Bandwidth:</b>	<b>5M</b>	<b>Test channel:</b>	<b>Middle</b>
<b>Modulation:</b>	<b>16QAM</b>	<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>	<b>Relative Humidity:</b>	<b>46~48%</b>

**Note:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5186	Vertical	-42.63	-13.00	PASS
7779	V	-46.81		
-	V	-		
5186	Horizontal	-42.54		
7779	H	-46.37		
-	H	-		

<b>Bandwidth:</b>	<b>5M</b>	<b>Test channel:</b>	<b>Highest</b>
<b>Modulation:</b>	<b>16QAM</b>	<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>	<b>Relative Humidity:</b>	<b>46~48%</b>

**Note:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5295.2	Vertical	-42.37	-13.00	PASS
7942.8	V	-47.64		
-	V	-		

5295.2	Horizontal	-43.17		
7942.8	H	-46.44		
-	H	-		

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