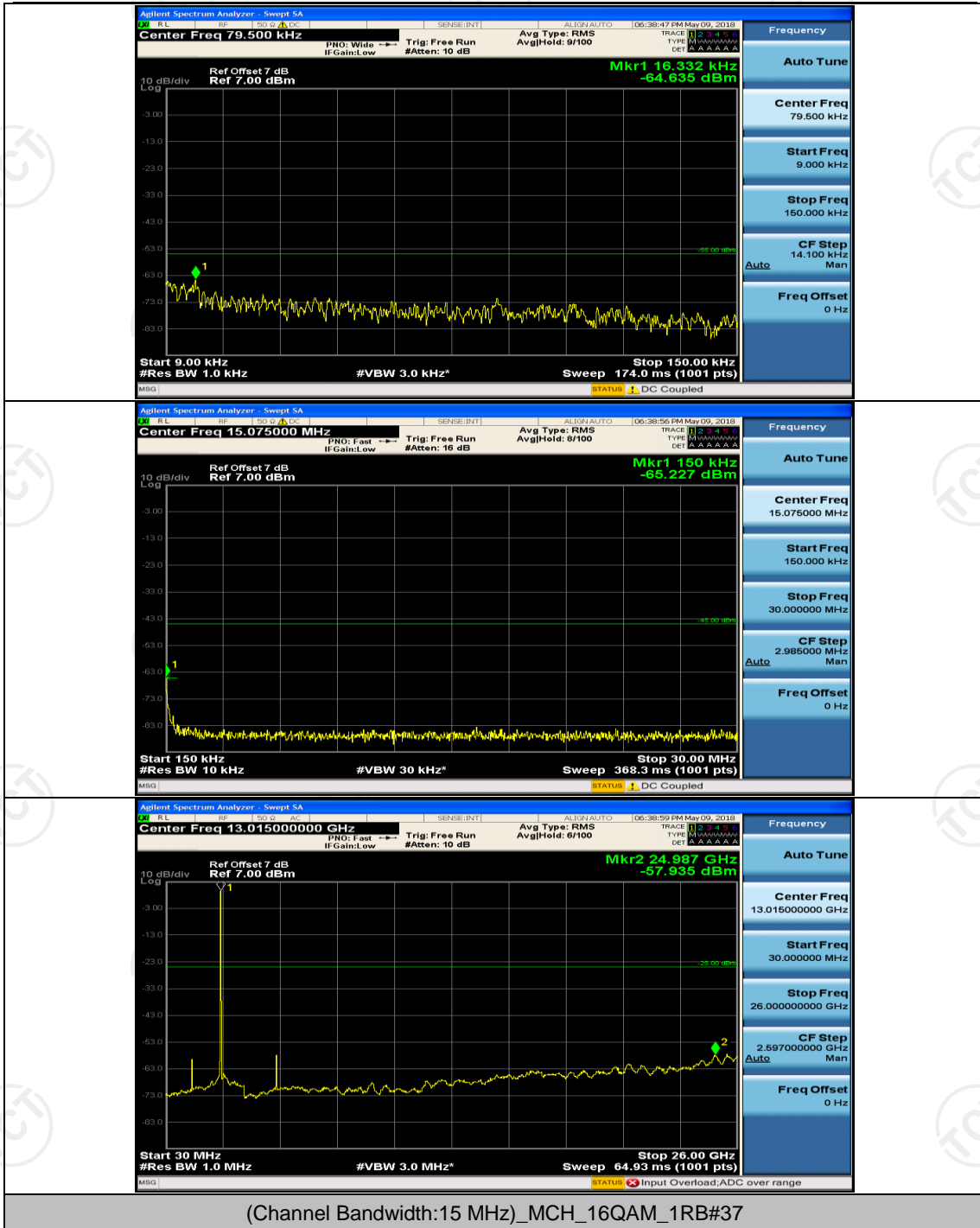
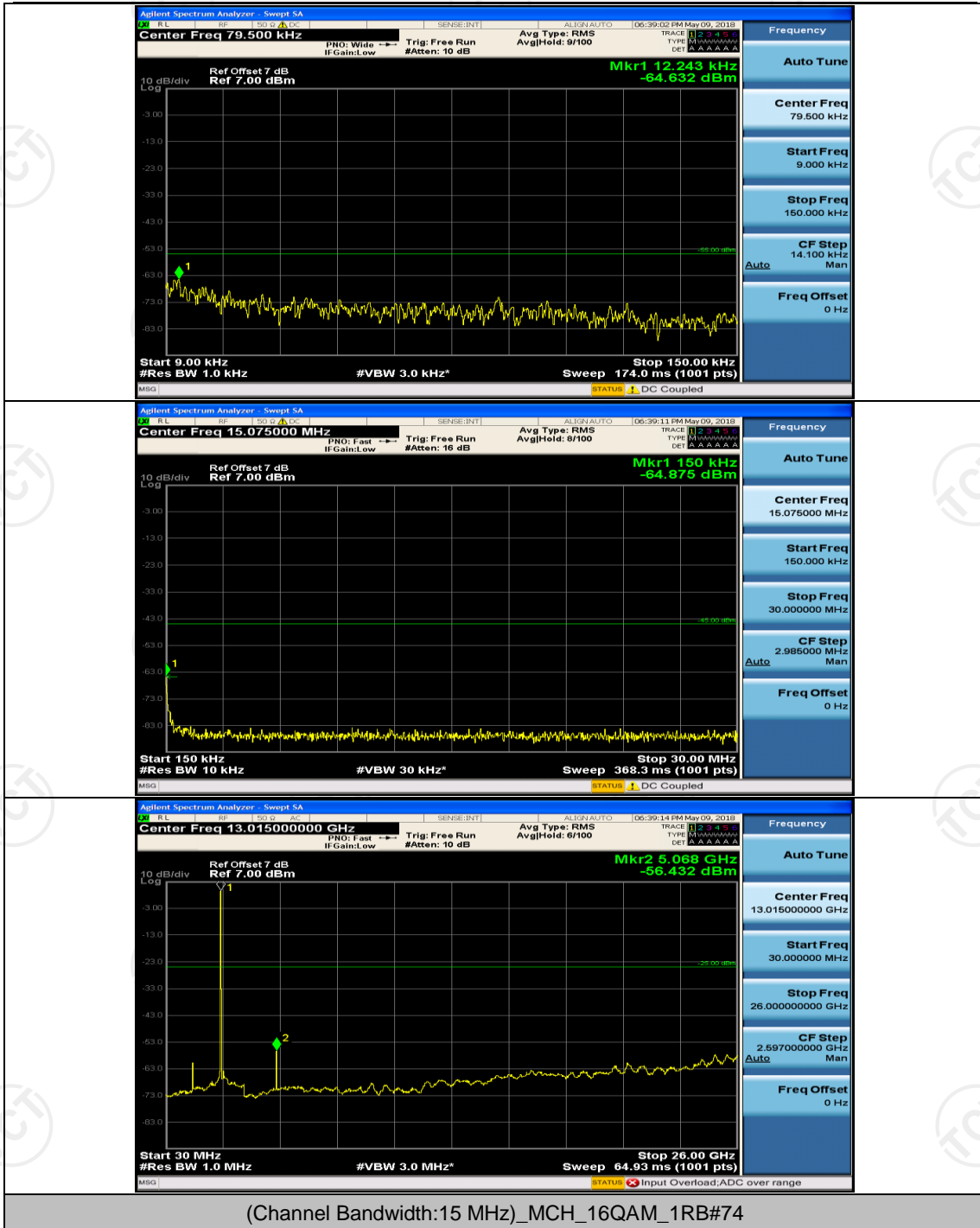
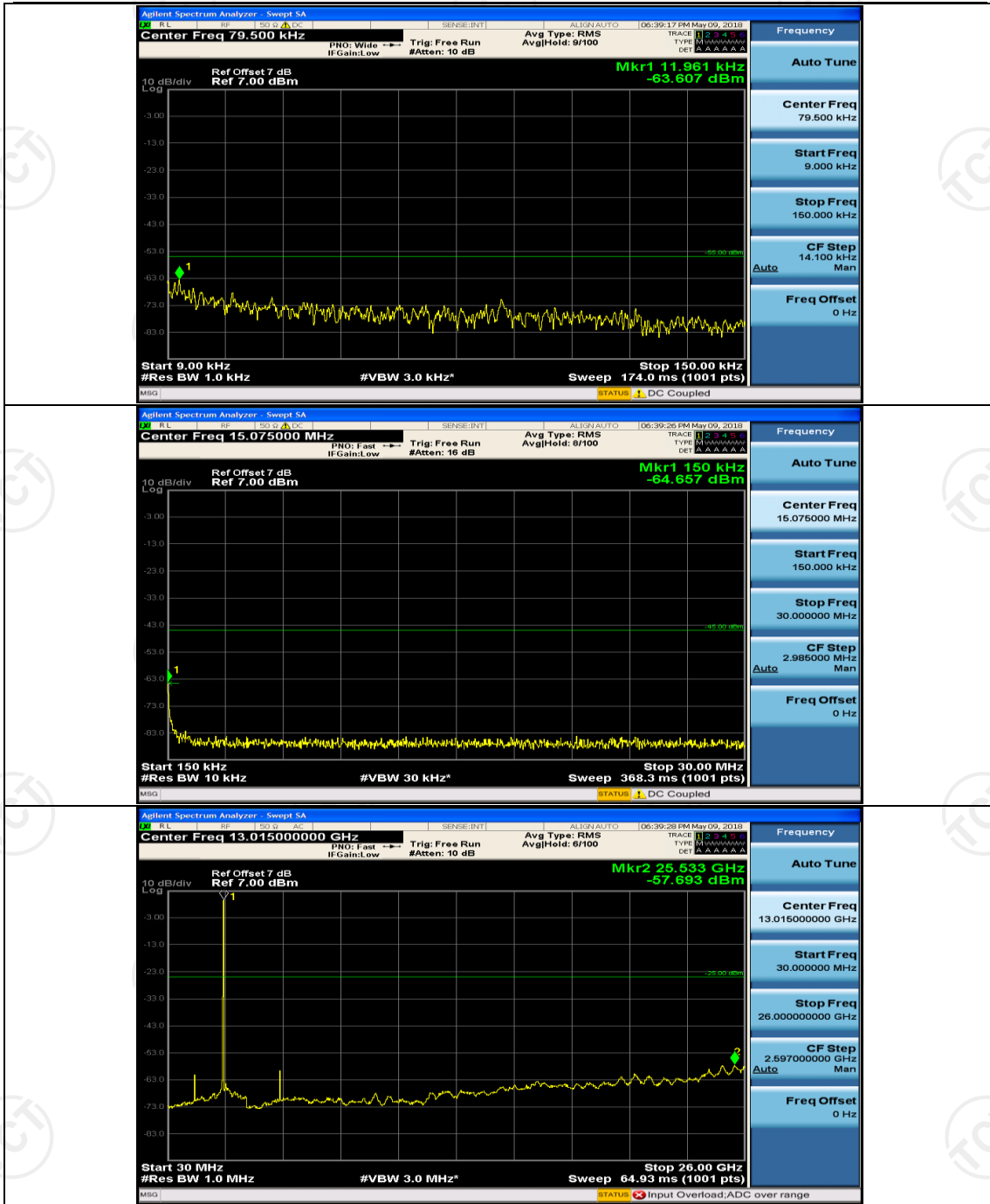


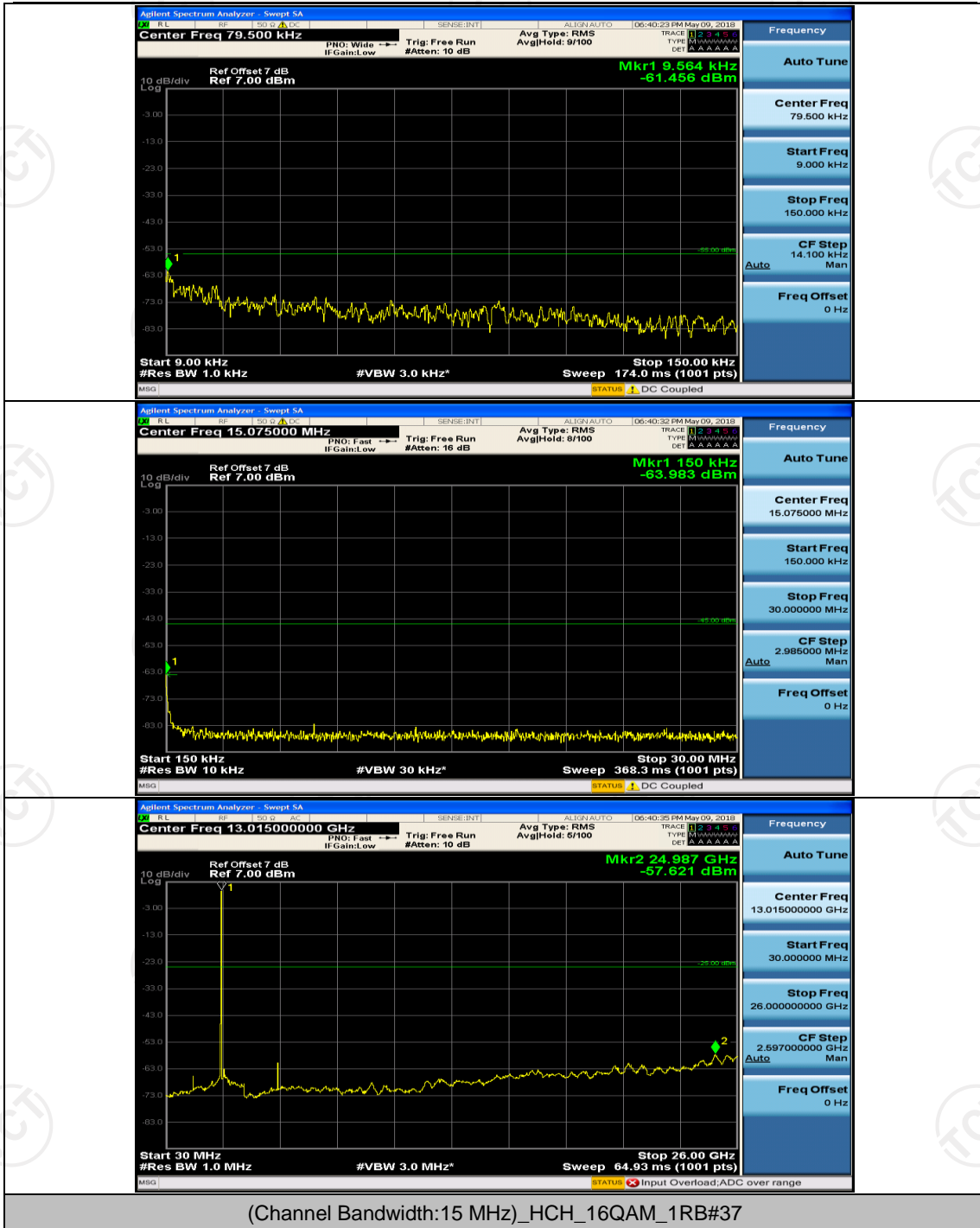
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

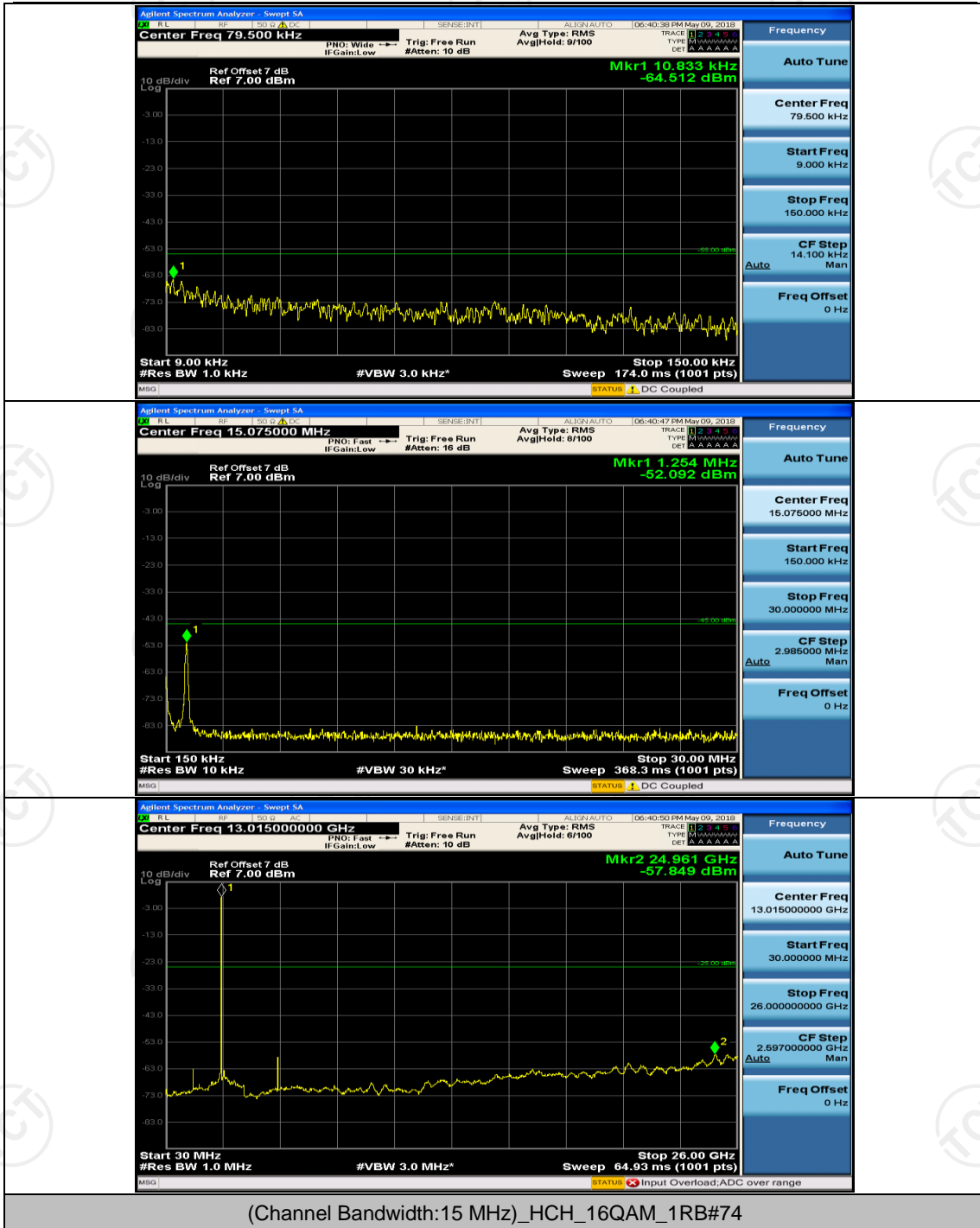


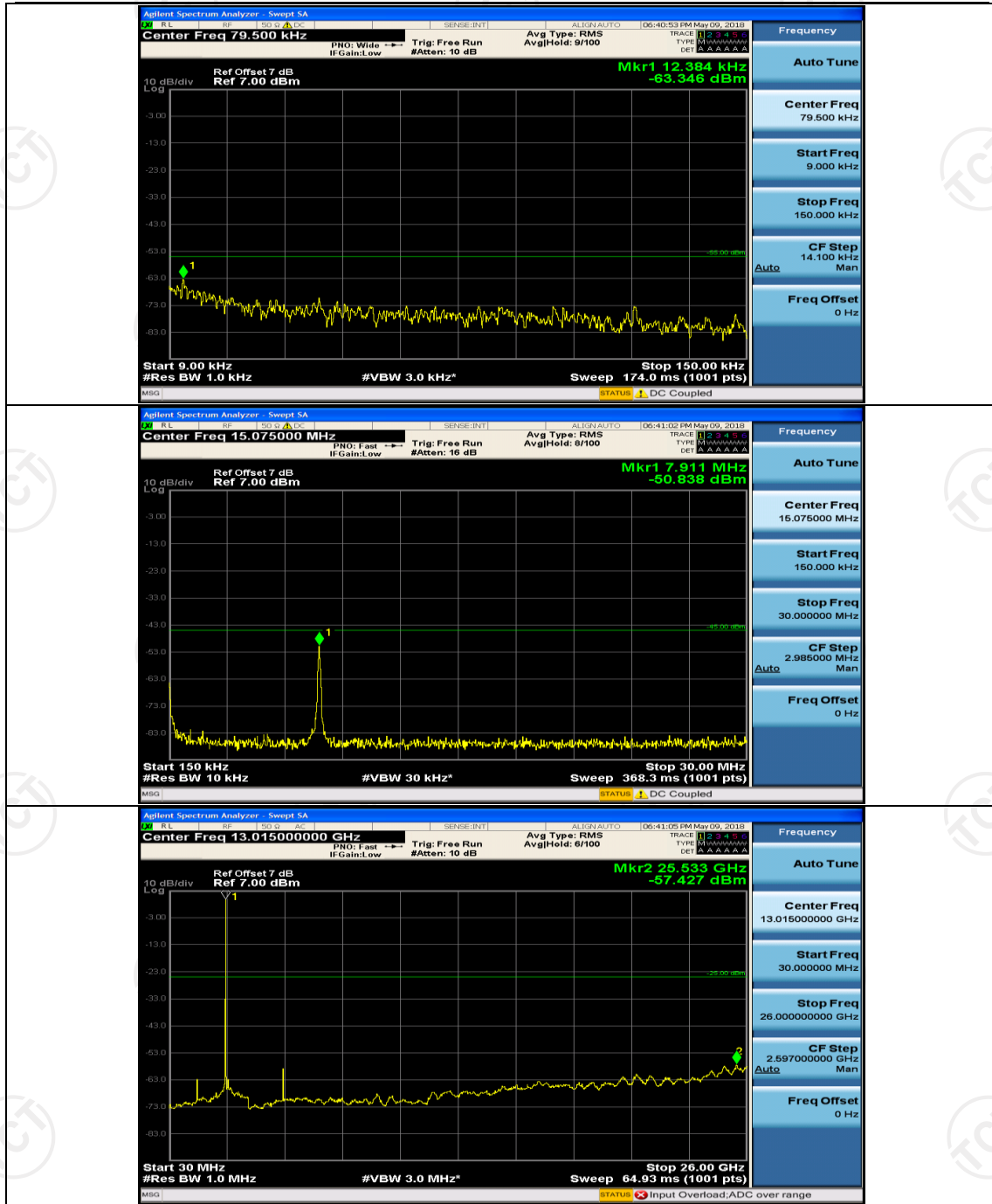




(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

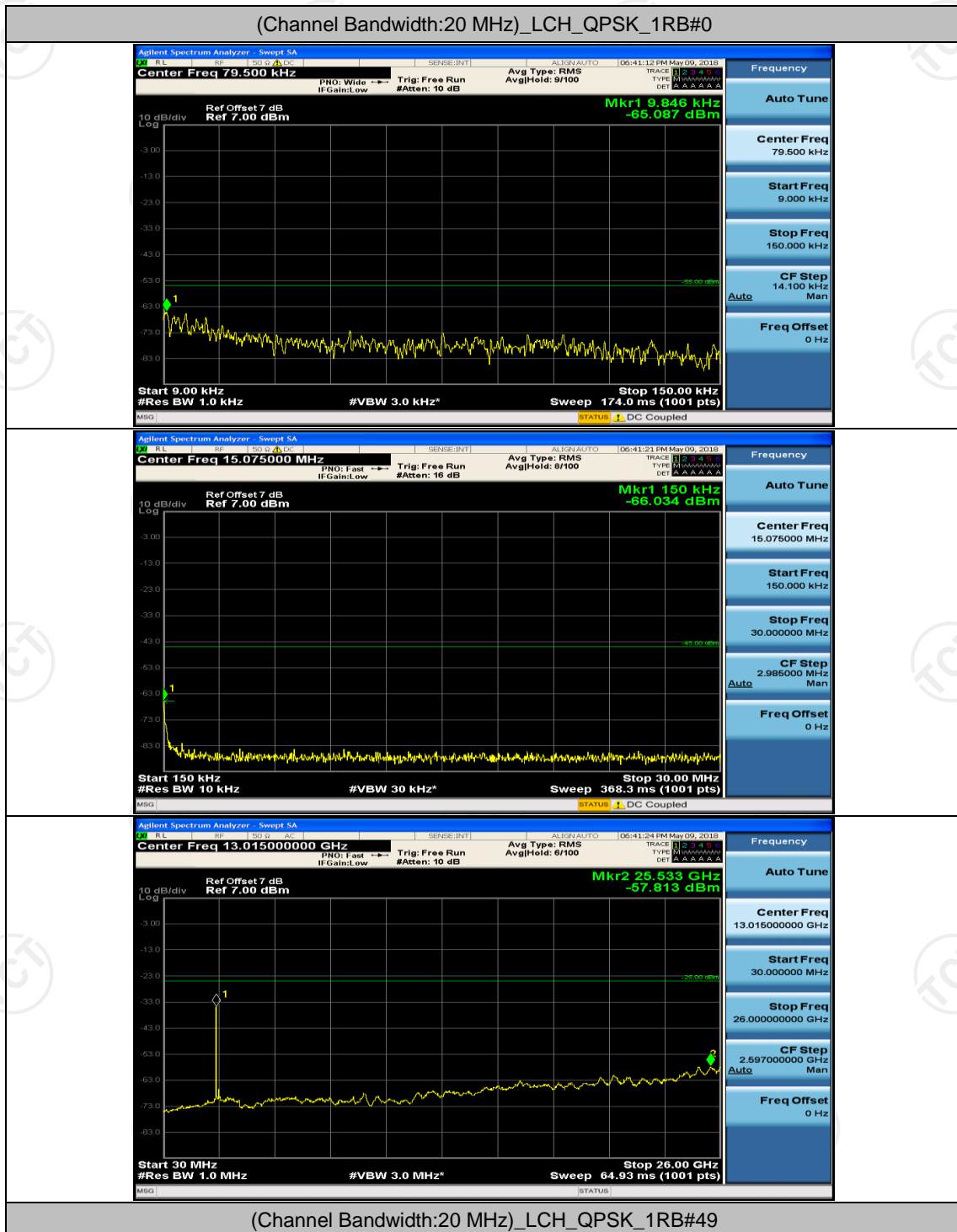




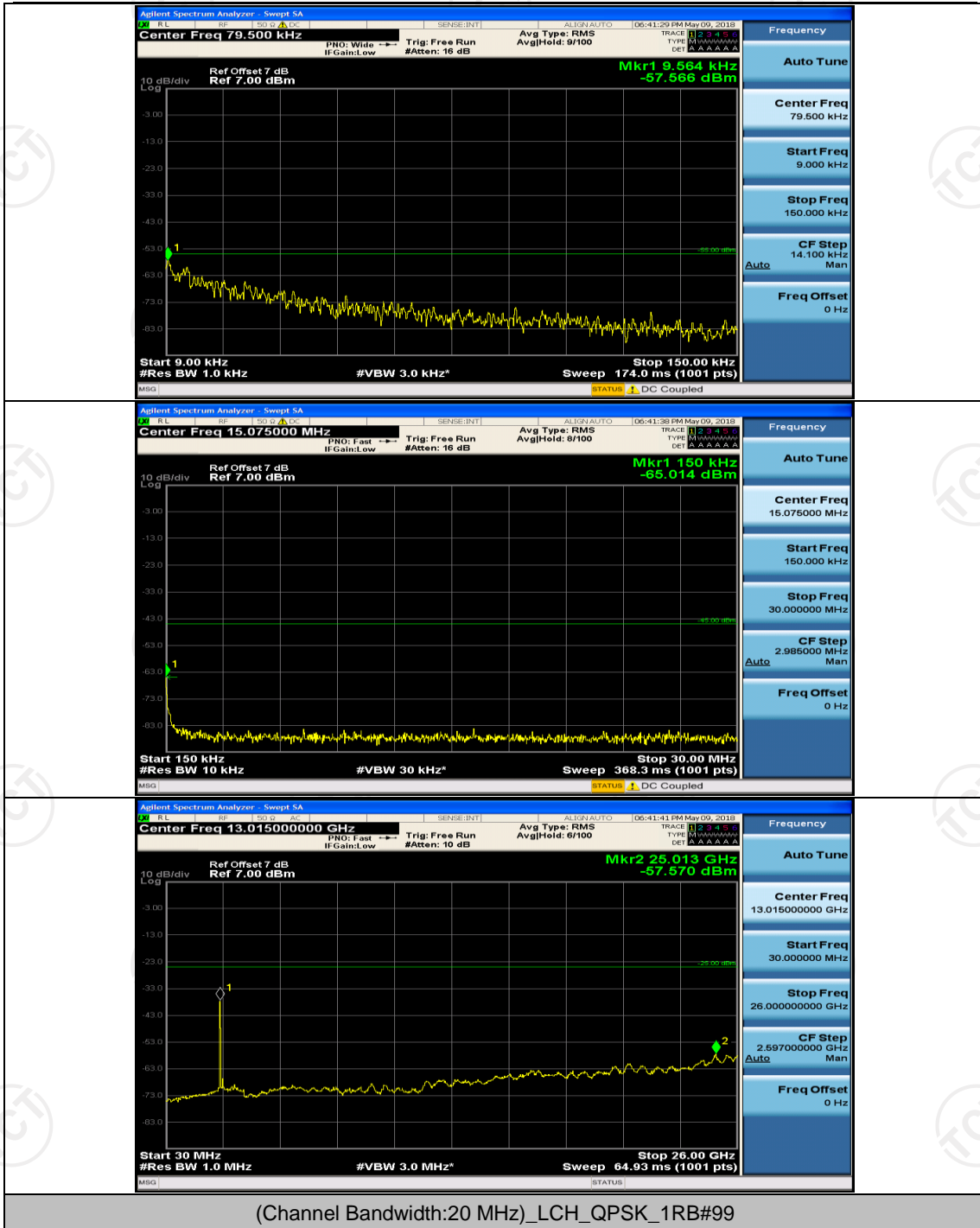


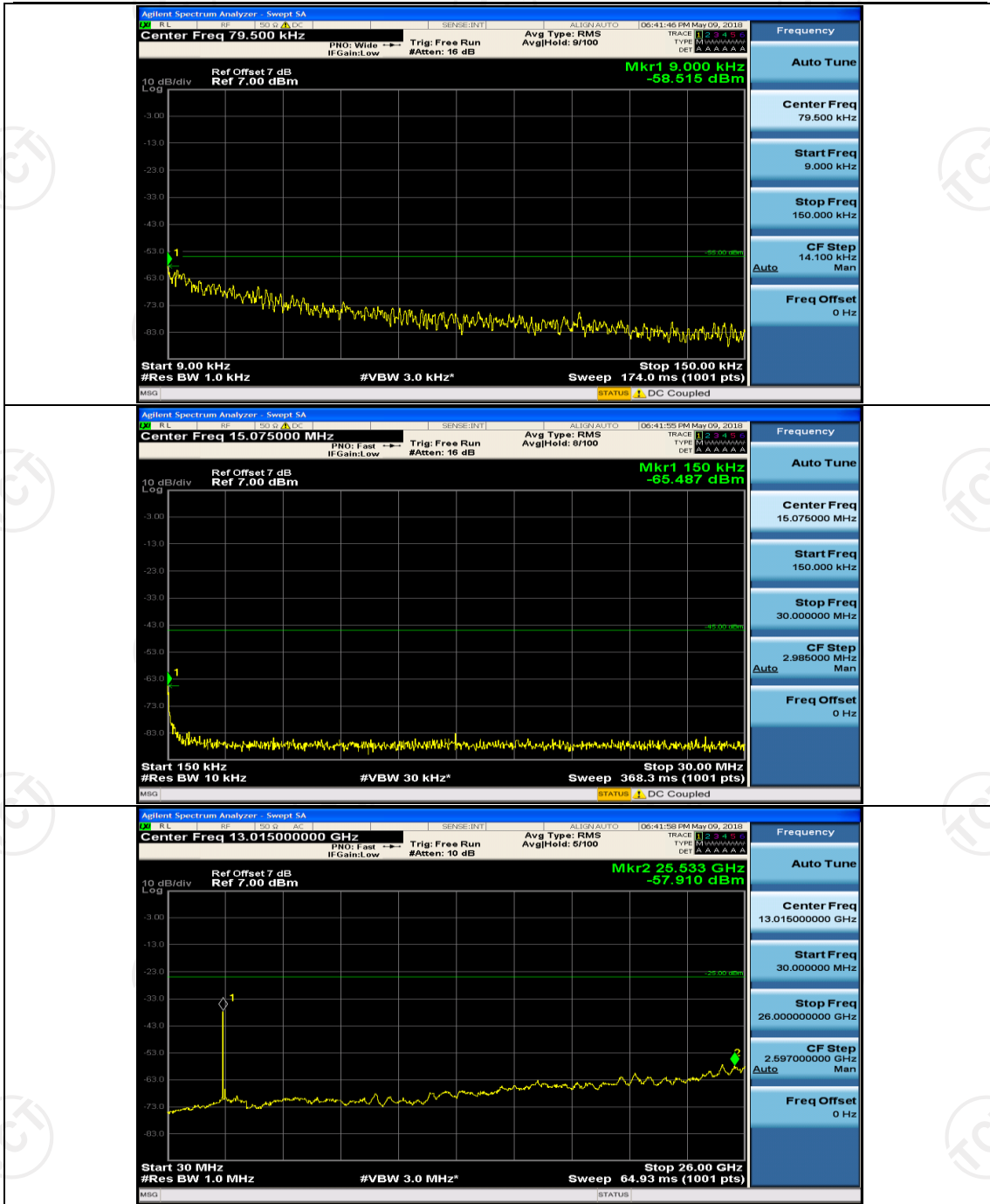


## Channel Bandwidth: 20 MHz

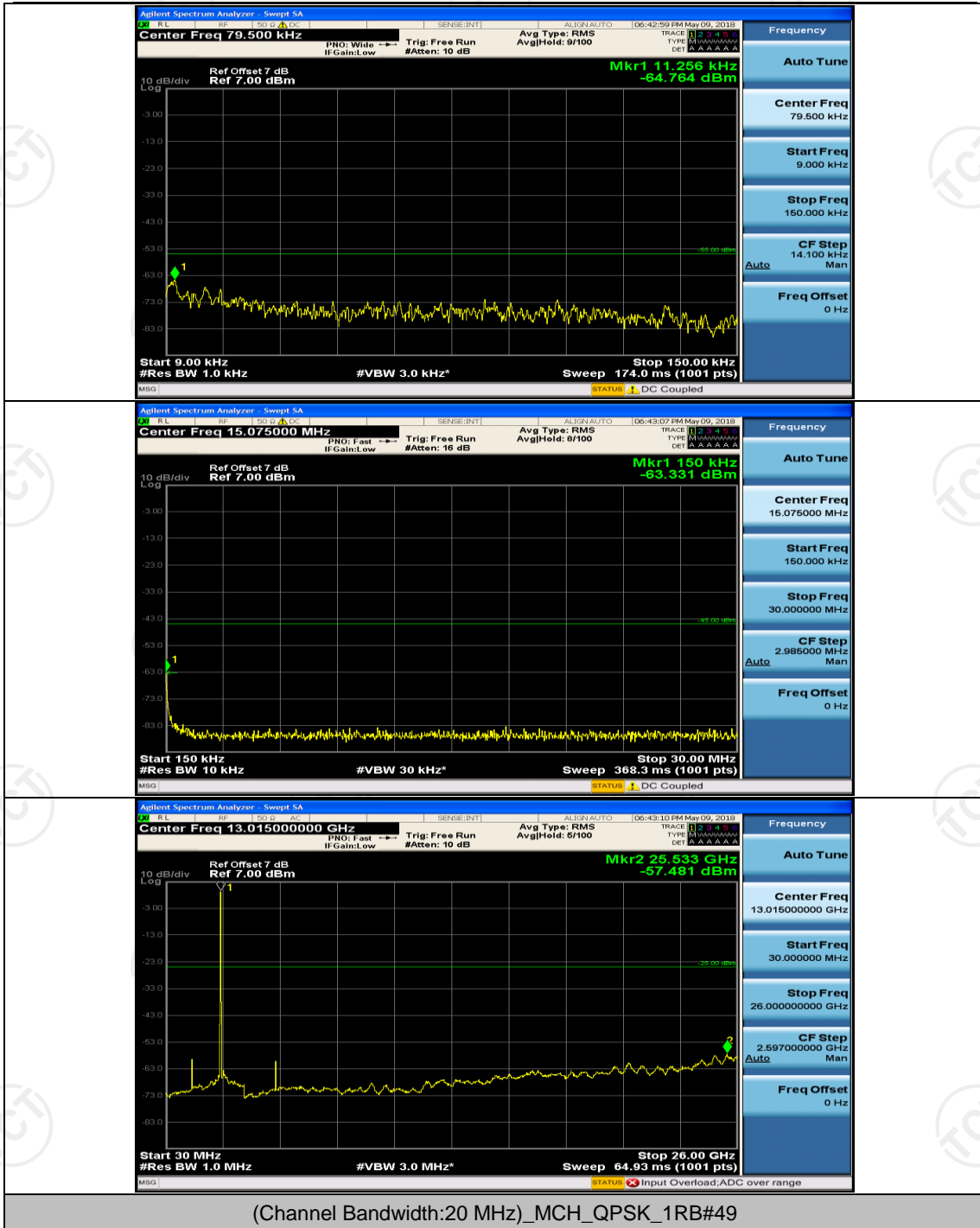


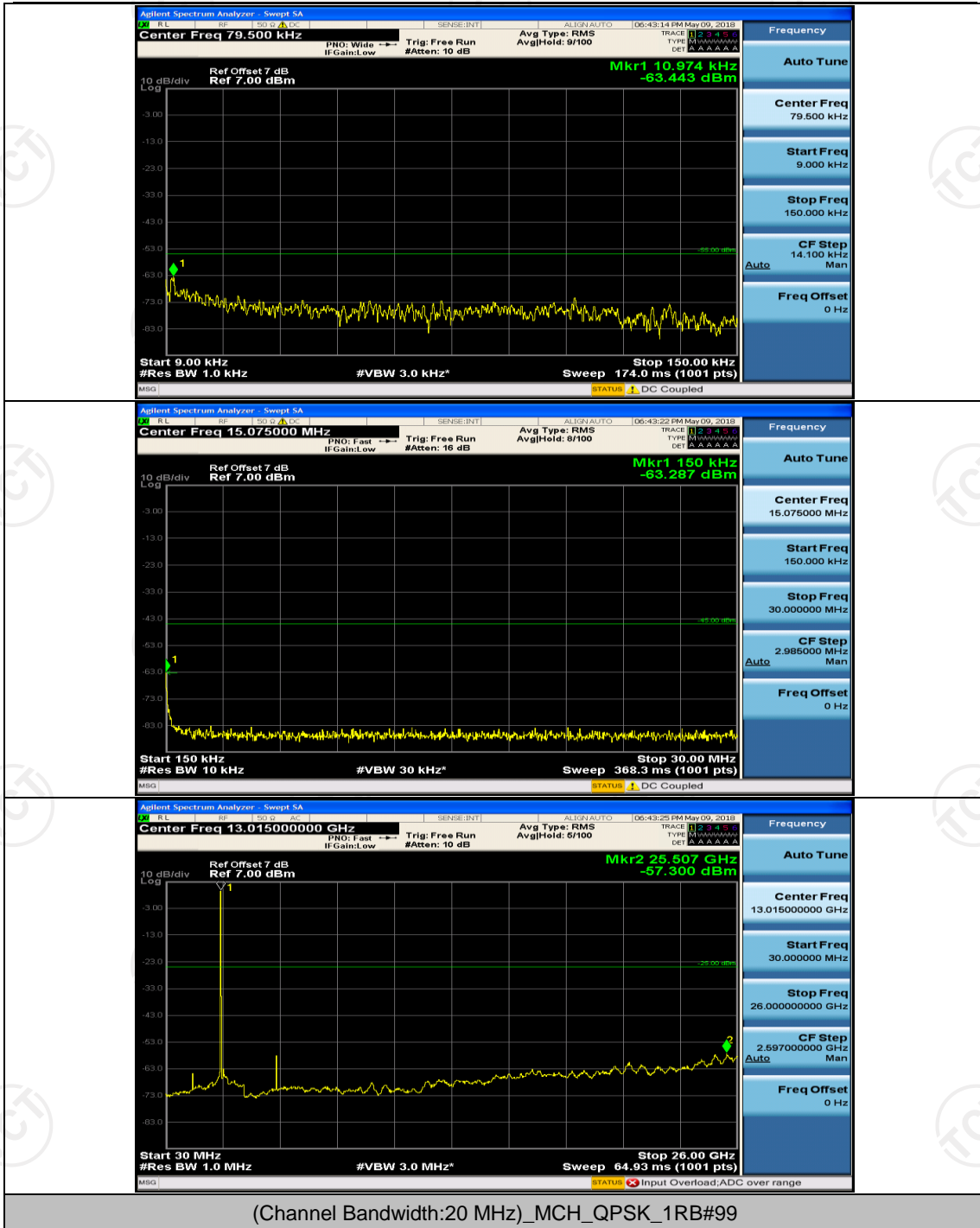


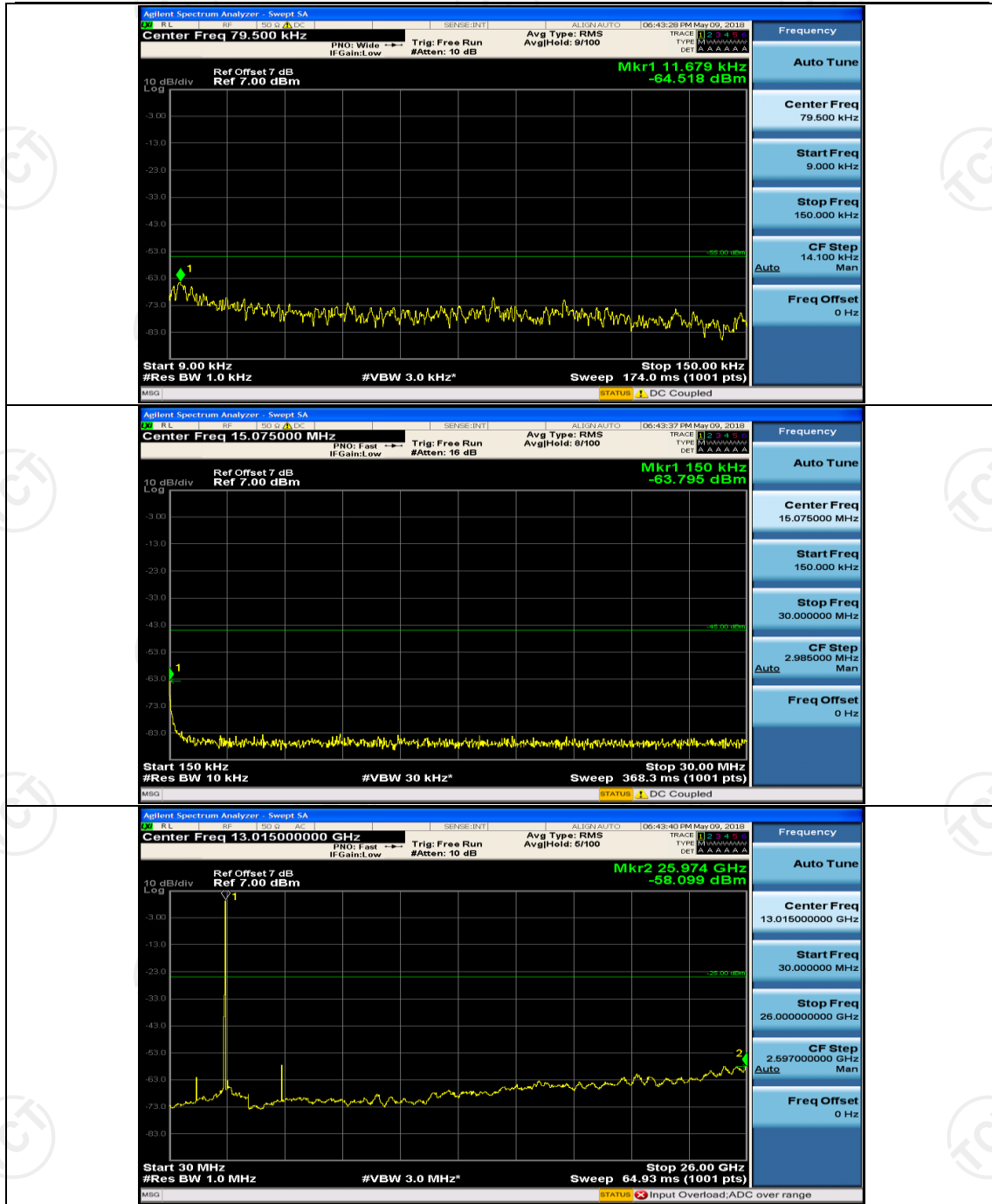




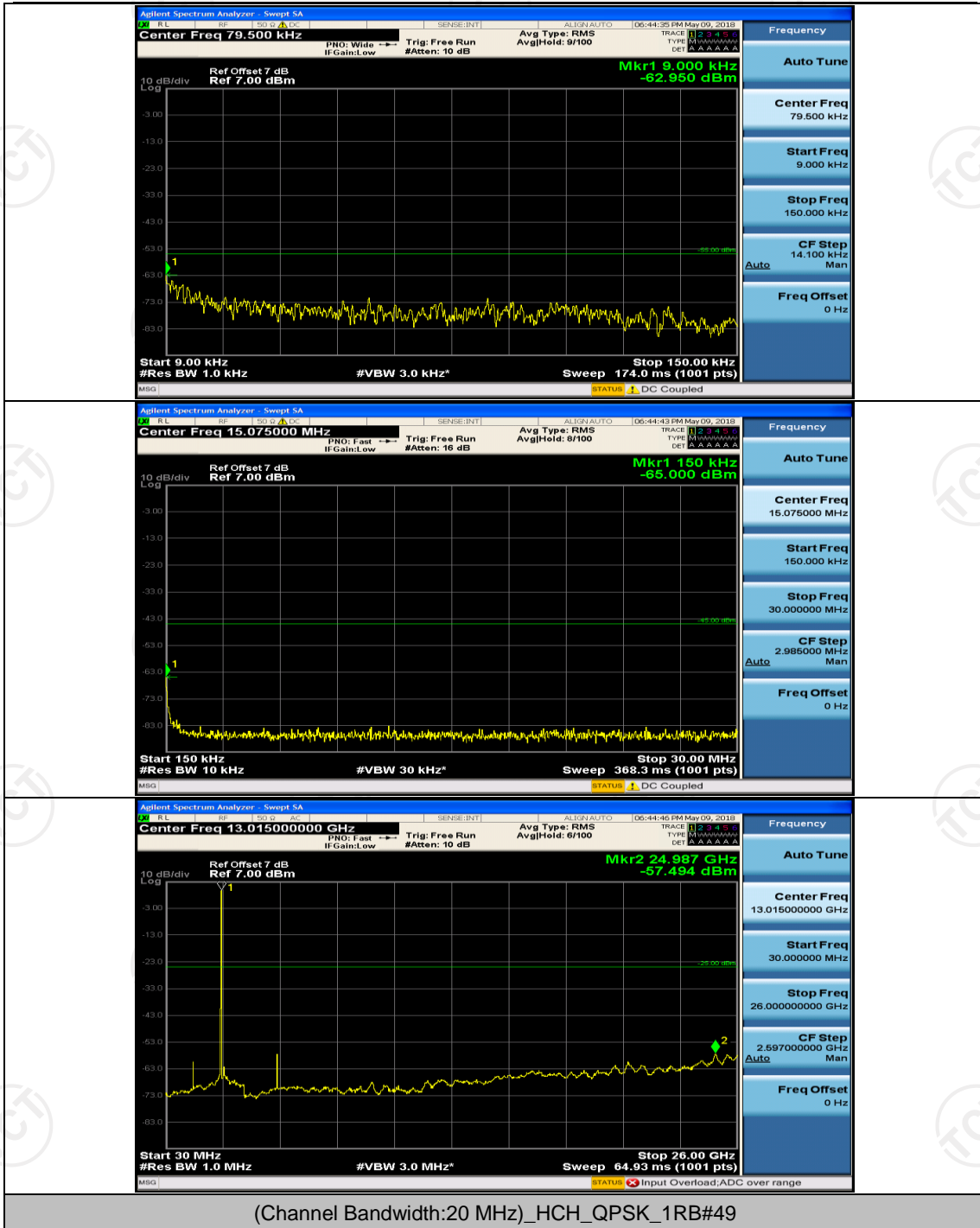
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0

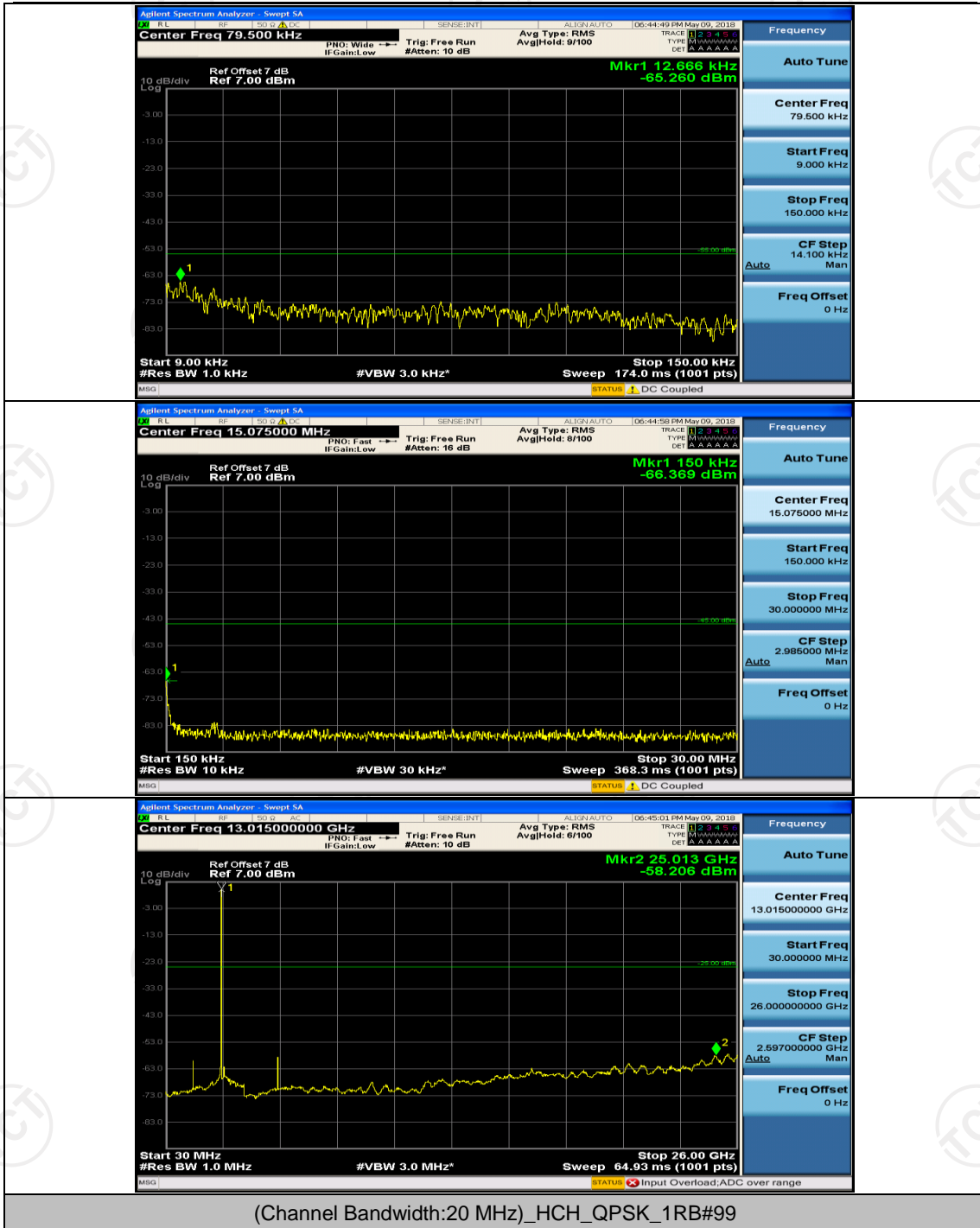




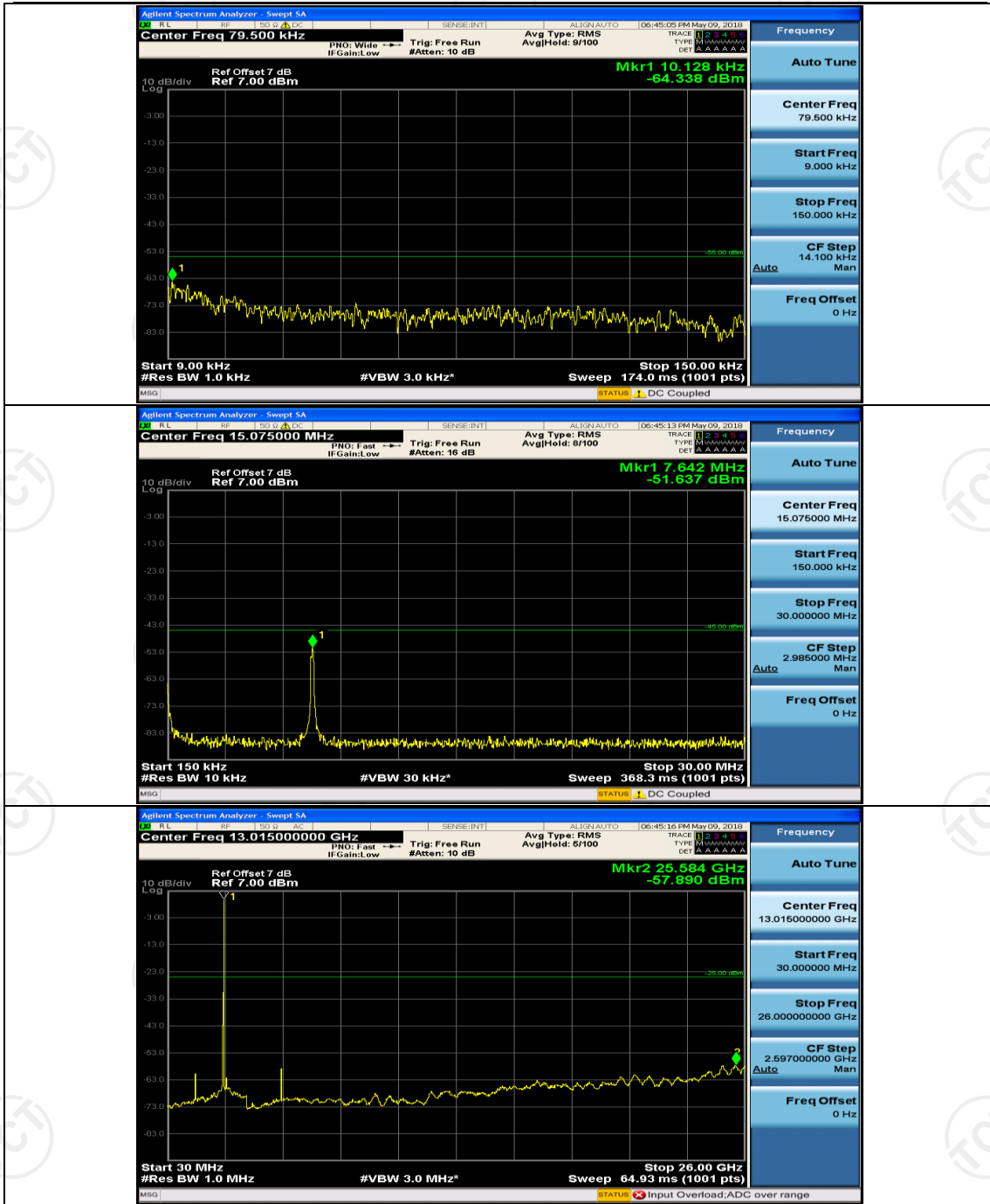


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

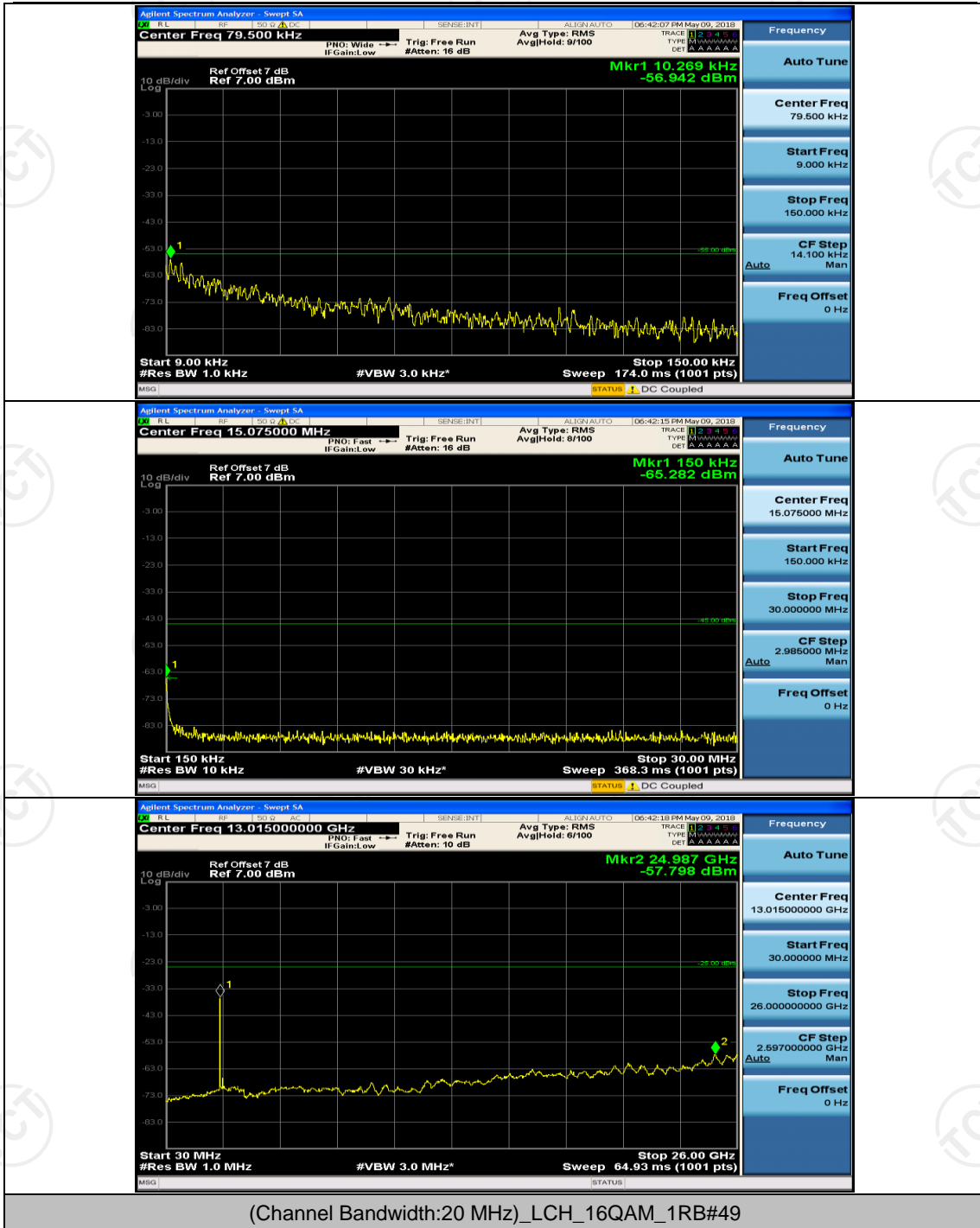


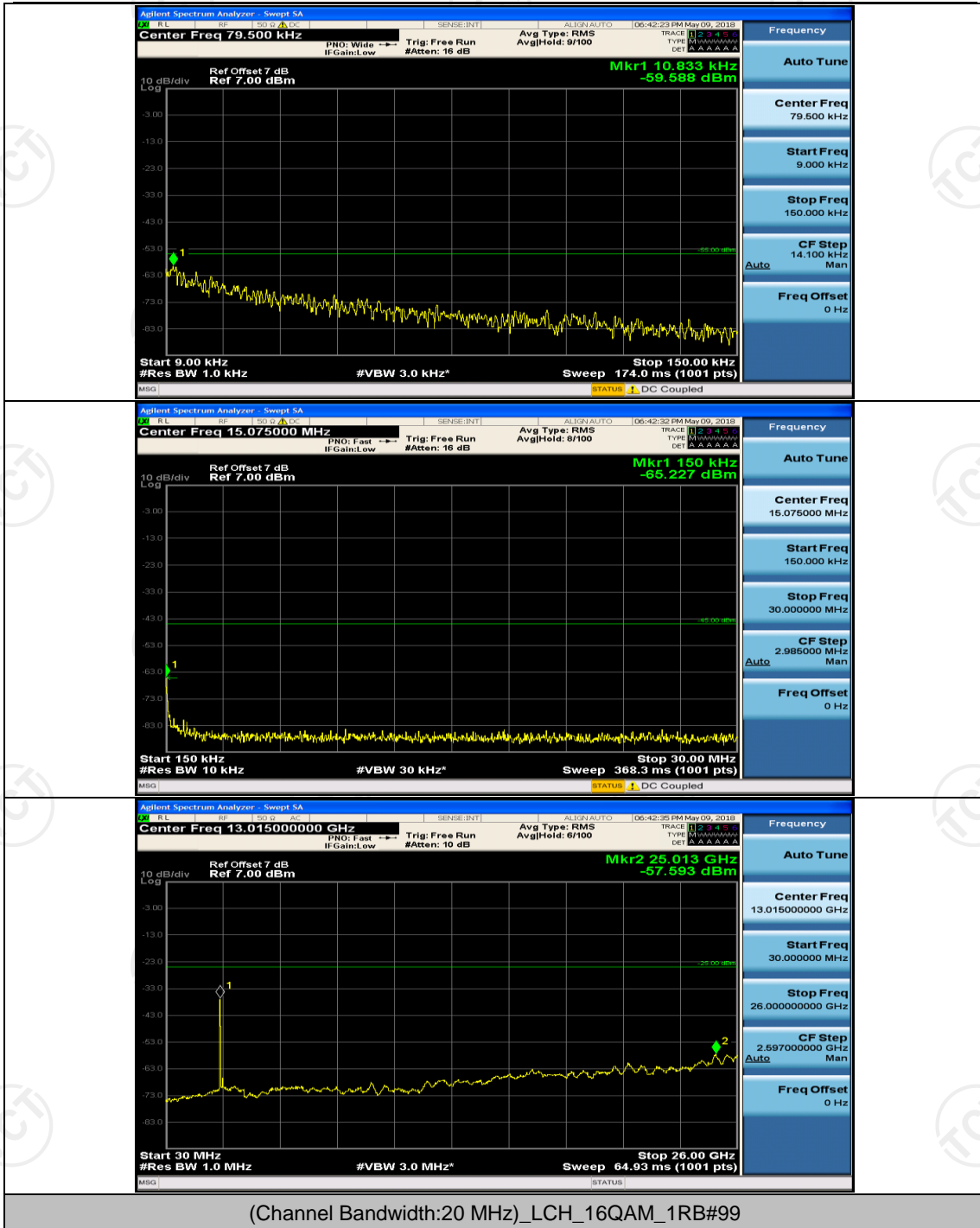


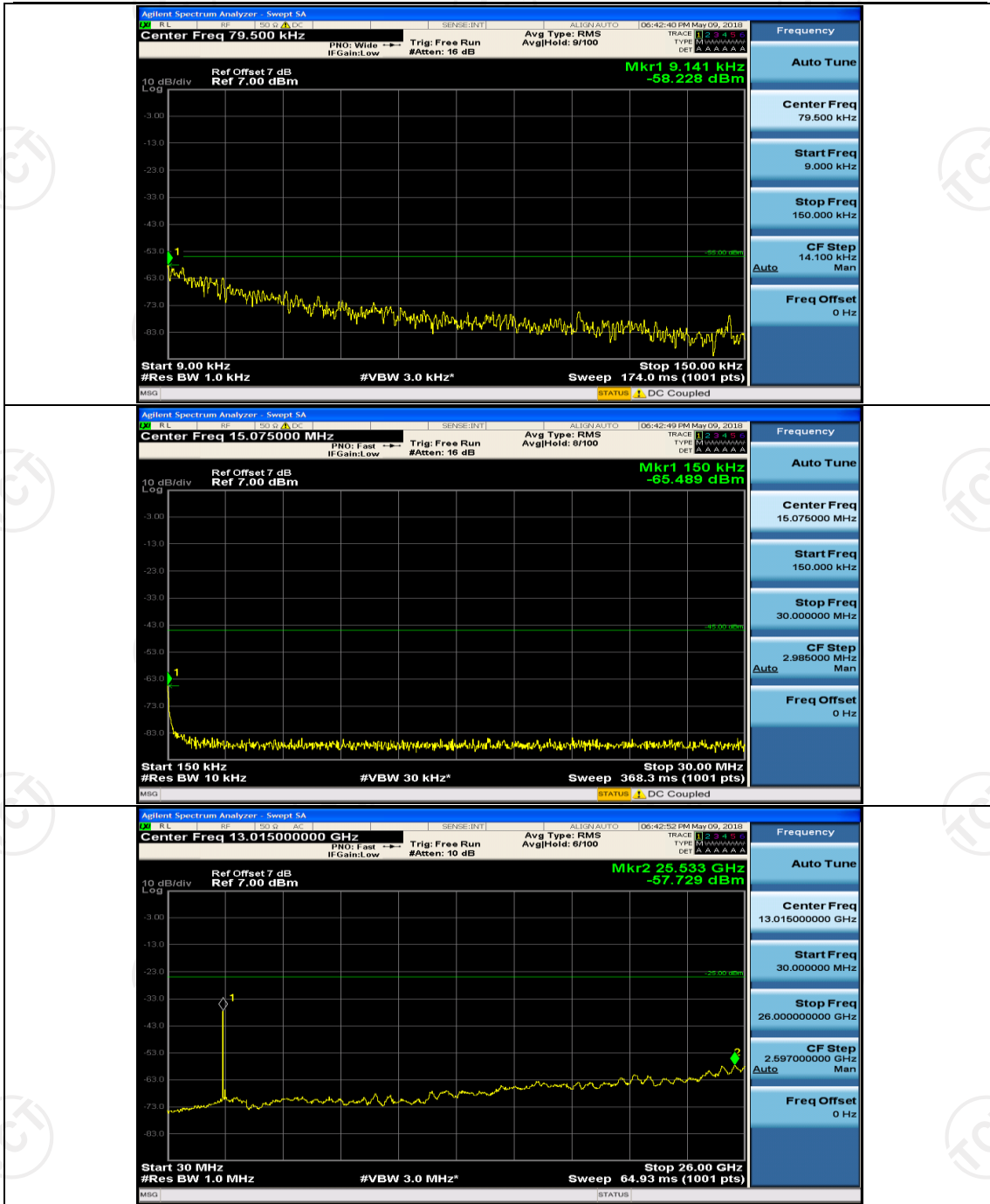




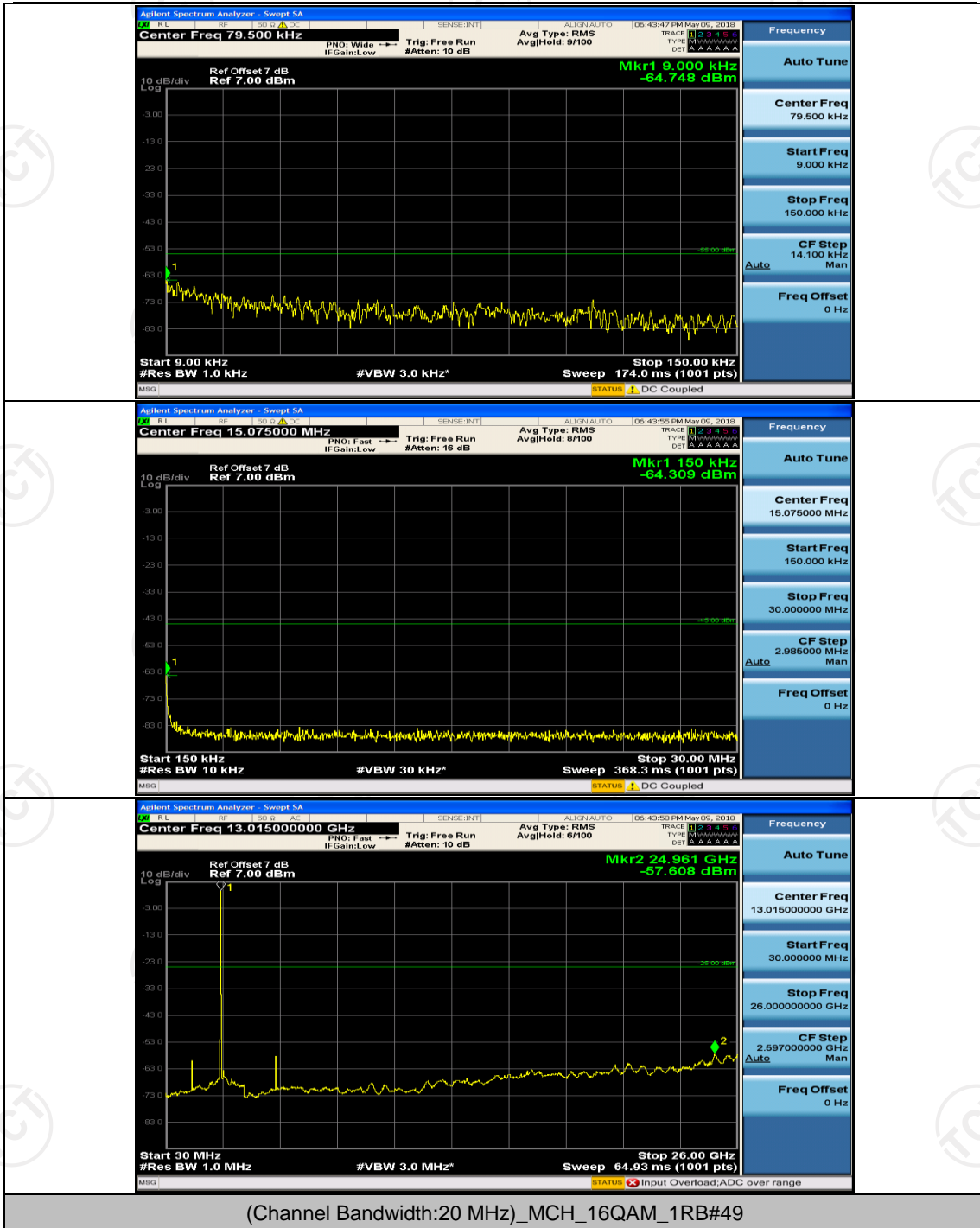
(Channel Bandwidth:20 MHz) LCH\_16QAM\_1RB#0

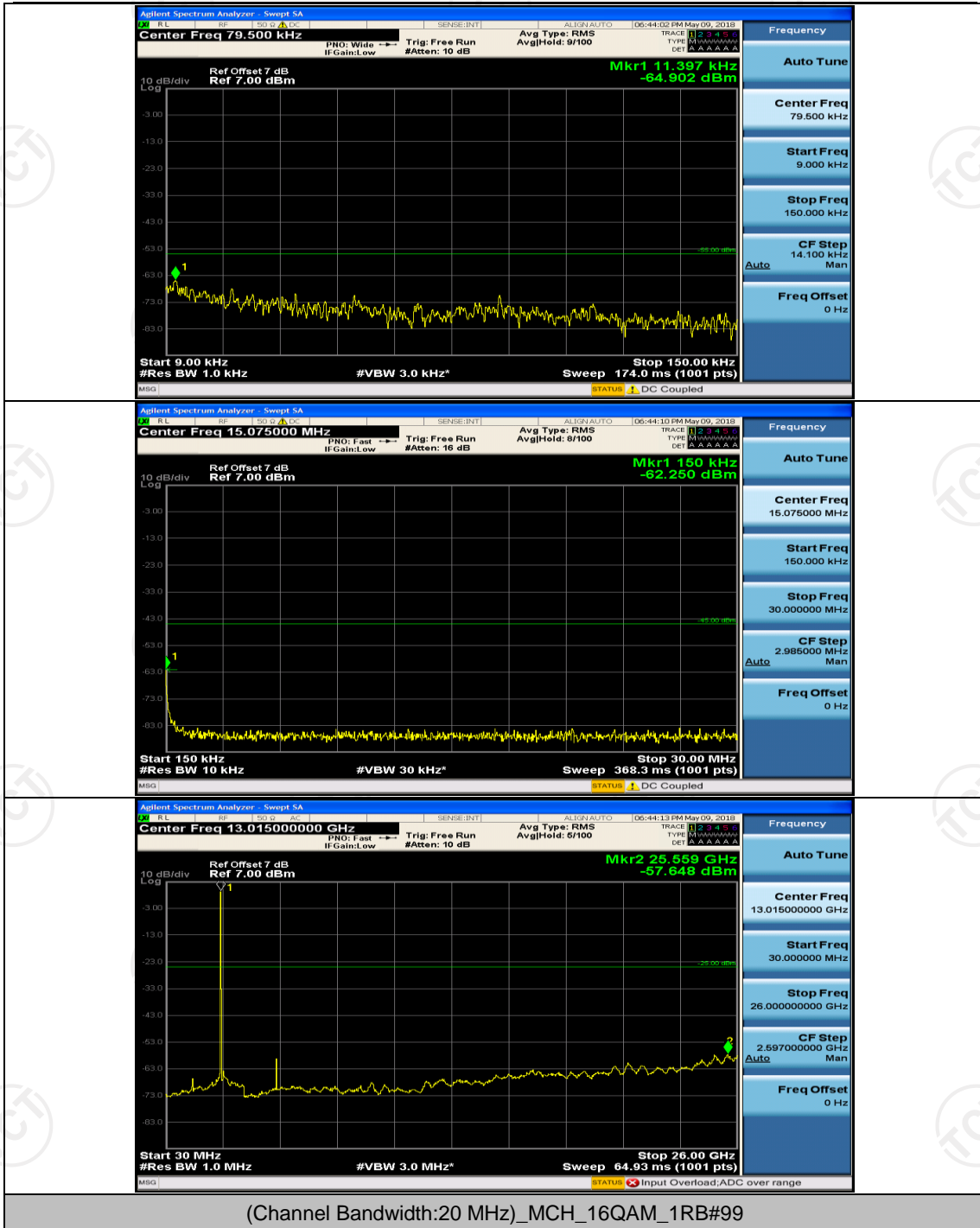


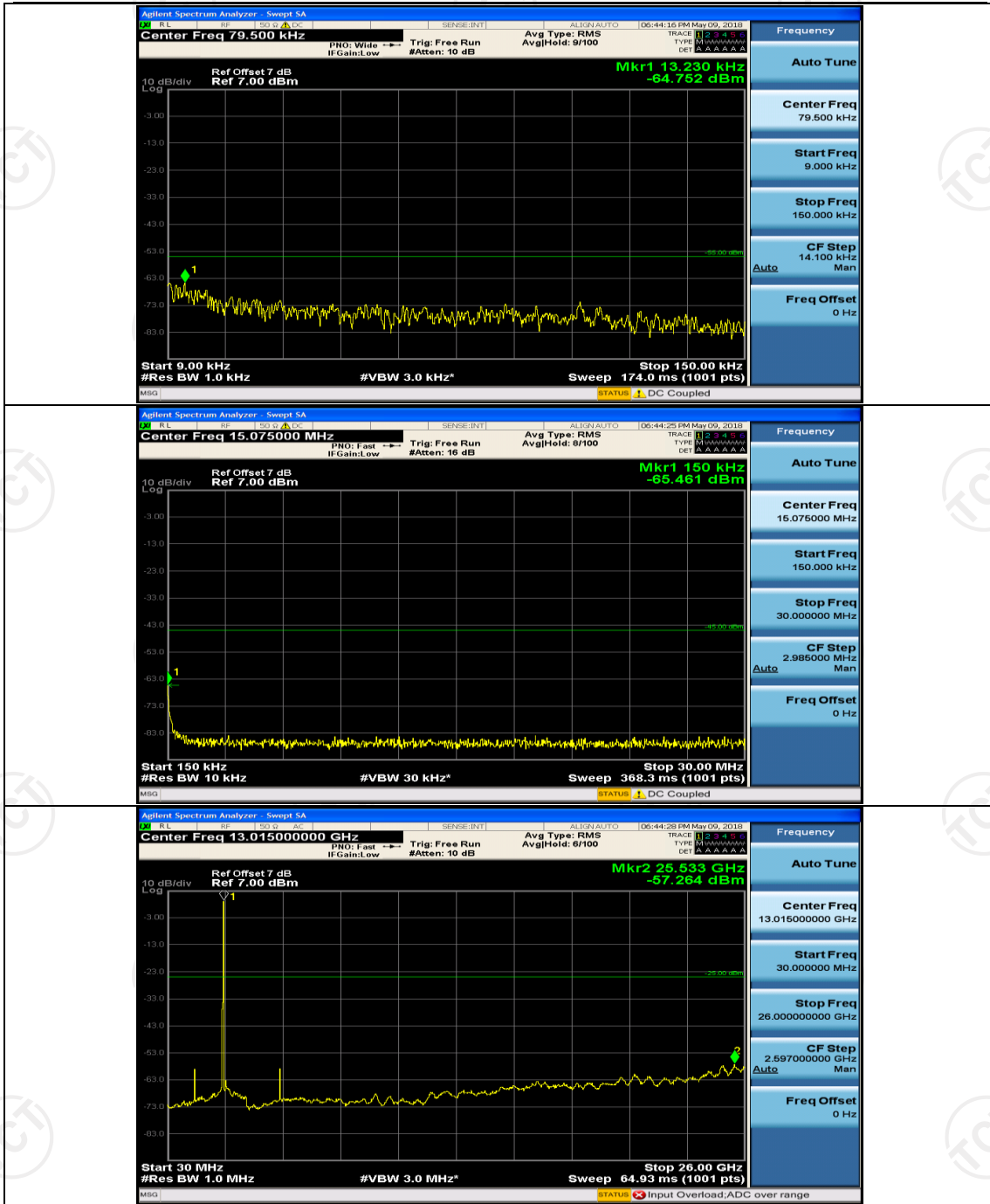




(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

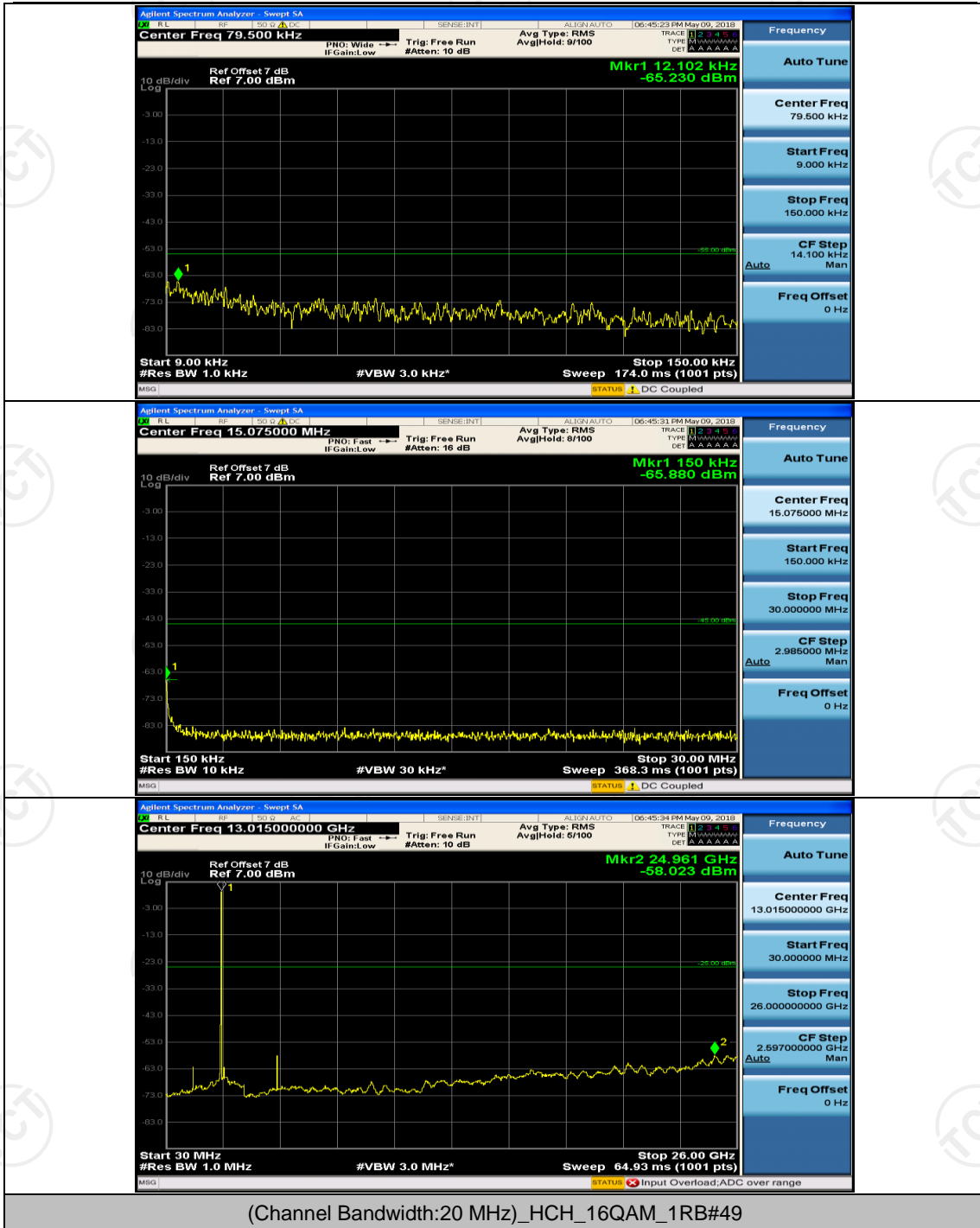


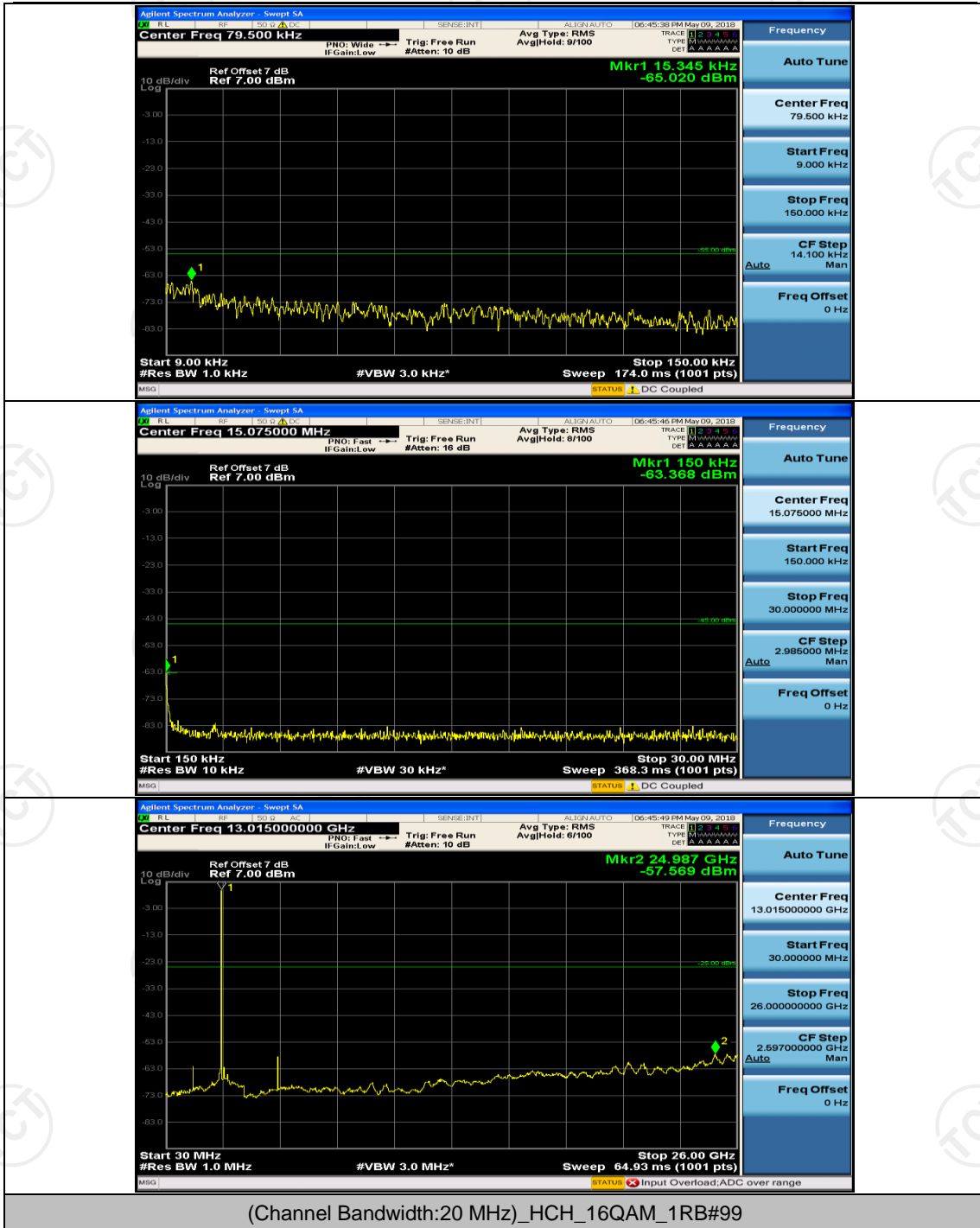


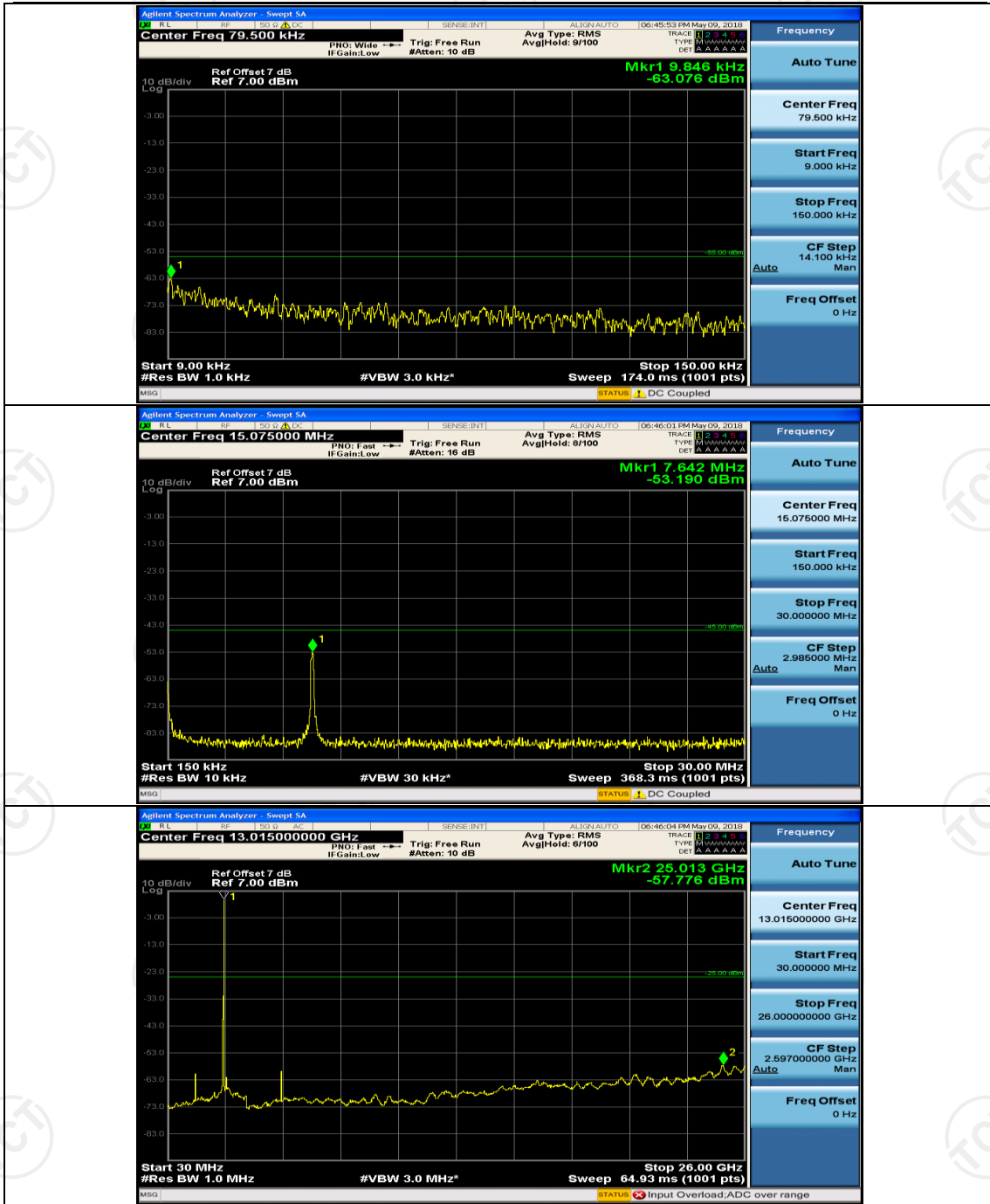


(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0









## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 1.4 MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.3	25	-0.000135	± 2.5	PASS
		3.8	25	0.000286	± 2.5	PASS
		4.2	25	-0.000233	± 2.5	PASS
	MCH	3.3	25	-0.000521	± 2.5	PASS
		3.8	25	-0.000824	± 2.5	PASS
		4.2	25	0.000215	± 2.5	PASS
	HCH	3.3	25	0.000049	± 2.5	PASS
		3.8	25	0.000117	± 2.5	PASS
		4.2	25	0.000154	± 2.5	PASS
16QAM	LCH	3.3	25	-0.000172	± 2.5	PASS
		3.8	25	-0.000783	± 2.5	PASS
		4.2	25	-0.000363	± 2.5	PASS
	MCH	3.3	25	-0.000485	± 2.5	PASS
		3.8	25	0.000751	± 2.5	PASS
		4.2	25	-0.000632	± 2.5	PASS
	HCH	3.3	25	-0.000705	± 2.5	PASS
		3.8	25	-0.001003	± 2.5	PASS
		4.2	25	-0.000641	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.8	-30	0.000812	± 2.5	PASS
		3.8	-20	0.001172	± 2.5	PASS
		3.8	-10	0.000346	± 2.5	PASS
		3.8	0	0.001292	± 2.5	PASS
		3.8	10	0.000457	± 2.5	PASS
		3.8	20	0.001572	± 2.5	PASS
		3.8	30	0.000246	± 2.5	PASS
		3.8	40	0.001692	± 2.5	PASS
		3.8	50	0.000057	± 2.5	PASS
	MCH	3.8	-30	0.000755	± 2.5	PASS
		3.8	-20	0.001207	± 2.5	PASS
		3.8	-10	0.000831	± 2.5	PASS
		3.8	0	0.001190	± 2.5	PASS
		3.8	10	0.001373	± 2.5	PASS
		3.8	20	0.001902	± 2.5	PASS

		3.8	30	0.000632	± 2.5	PASS	
		3.8	40	0.001794	± 2.5	PASS	
		3.8	50	0.001772	± 2.5	PASS	
	HCH	3.8	-30	0.000420	± 2.5	PASS	
		3.8	-20	0.000175	± 2.5	PASS	
		3.8	-10	0.000133	± 2.5	PASS	
		3.8	0	0.000147	± 2.5	PASS	
		3.8	10	0.000380	± 2.5	PASS	
		3.8	20	0.000290	± 2.5	PASS	
		3.8	30	0.000535	± 2.5	PASS	
		3.8	40	-0.000033	± 2.5	PASS	
		3.8	50	0.001153	± 2.5	PASS	
		16QAM	LCH	3.8	-30	0.000157	± 2.5
3.8	-20			-0.001012	± 2.5	PASS	
3.8	-10			-0.000173	± 2.5	PASS	
3.8	0			0.000835	± 2.5	PASS	
3.8	10			-0.001305	± 2.5	PASS	
3.8	20			0.000617	± 2.5	PASS	
3.8	30			-0.001155	± 2.5	PASS	
3.8	40			-0.000280	± 2.5	PASS	
MCH	3.8		50	0.001035	± 2.5	PASS	
	3.8		-30	0.000410	± 2.5	PASS	
	3.8		-20	0.000621	± 2.5	PASS	
	3.8		-10	0.000412	± 2.5	PASS	
	3.8		0	0.000545	± 2.5	PASS	
	3.8		10	0.000357	± 2.5	PASS	
	3.8		20	0.000570	± 2.5	PASS	
	3.8		30	0.000801	± 2.5	PASS	
	3.8		40	0.000514	± 2.5	PASS	
	3.8		50	0.000643	± 2.5	PASS	
HCH	3.8		-30	-0.000102	± 2.5	PASS	
	3.8		-20	0.000155	± 2.5	PASS	
	3.8		-10	-0.000243	± 2.5	PASS	
	3.8		0	-0.000289	± 2.5	PASS	
	3.8		10	-0.000341	± 2.5	PASS	
	3.8		20	-0.000072	± 2.5	PASS	
	3.8		30	0.000078	± 2.5	PASS	
	3.8		40	-0.000351	± 2.5	PASS	
			3.8	50	-0.000189	± 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)		
5005.0	Vertical	-43.72	-13.00	PASS
7507.5	V	-47.35		
-	V	-		
5005.0	Horizontal	-38.28		
7507.5	H	-43.56		
-	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)		
5070.0	Vertical	-43.28	-13.00	PASS
7605.0	V	-46.72		
-	V	-		
5070.0	Horizontal	-41.27		
7605.0	H	-46.76		
-	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)		
5135.0	Vertical	-43.51	-13.00	PASS
7702.5	V	-47.35		
-	V	-		
5135.0	Horizontal	-41.28		
7702.5	H	-46.45		
-	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>
<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)		
5005.0	Vertical	-43.82	-13.00	PASS
7507.5	V	-47.91		
-	V	-		
5005.0	Horizontal	-41.37		
7507.5	H	-45.08		
-	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>
<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)		
5070.0	Vertical	-41.38	-13.00	PASS
7605.0	V	-45.47		
-	V	-		
5070.0	Horizontal	-41.38		
7605.0	H	-45.76		
-	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>
<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)		
5135.0	Vertical	-40.34	-13.00	PASS
7702.5	V	-46.24		
-	V	-		
5135.0	Horizontal	-41.35		
7702.5	H	-47.72		
-	H	-		

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