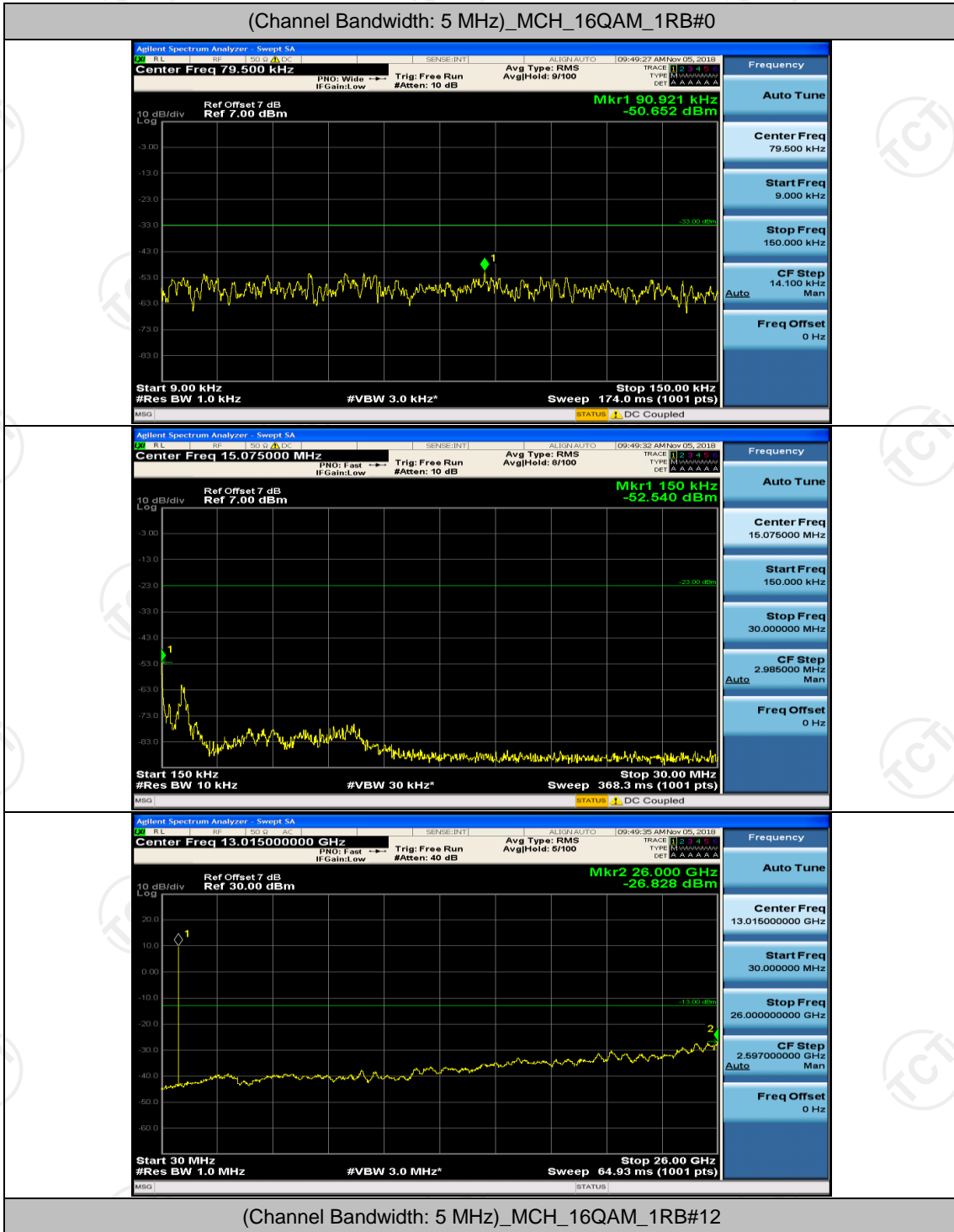
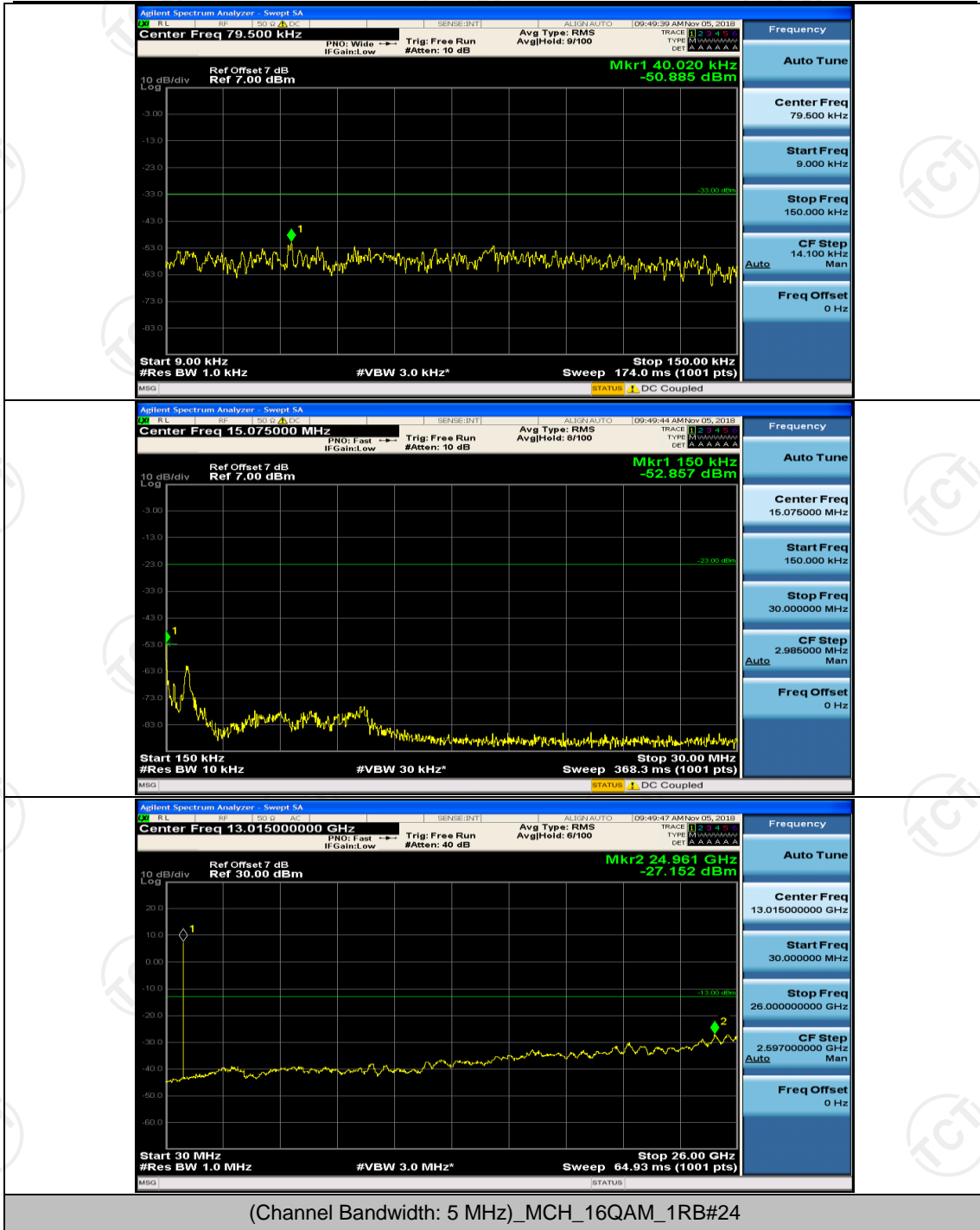
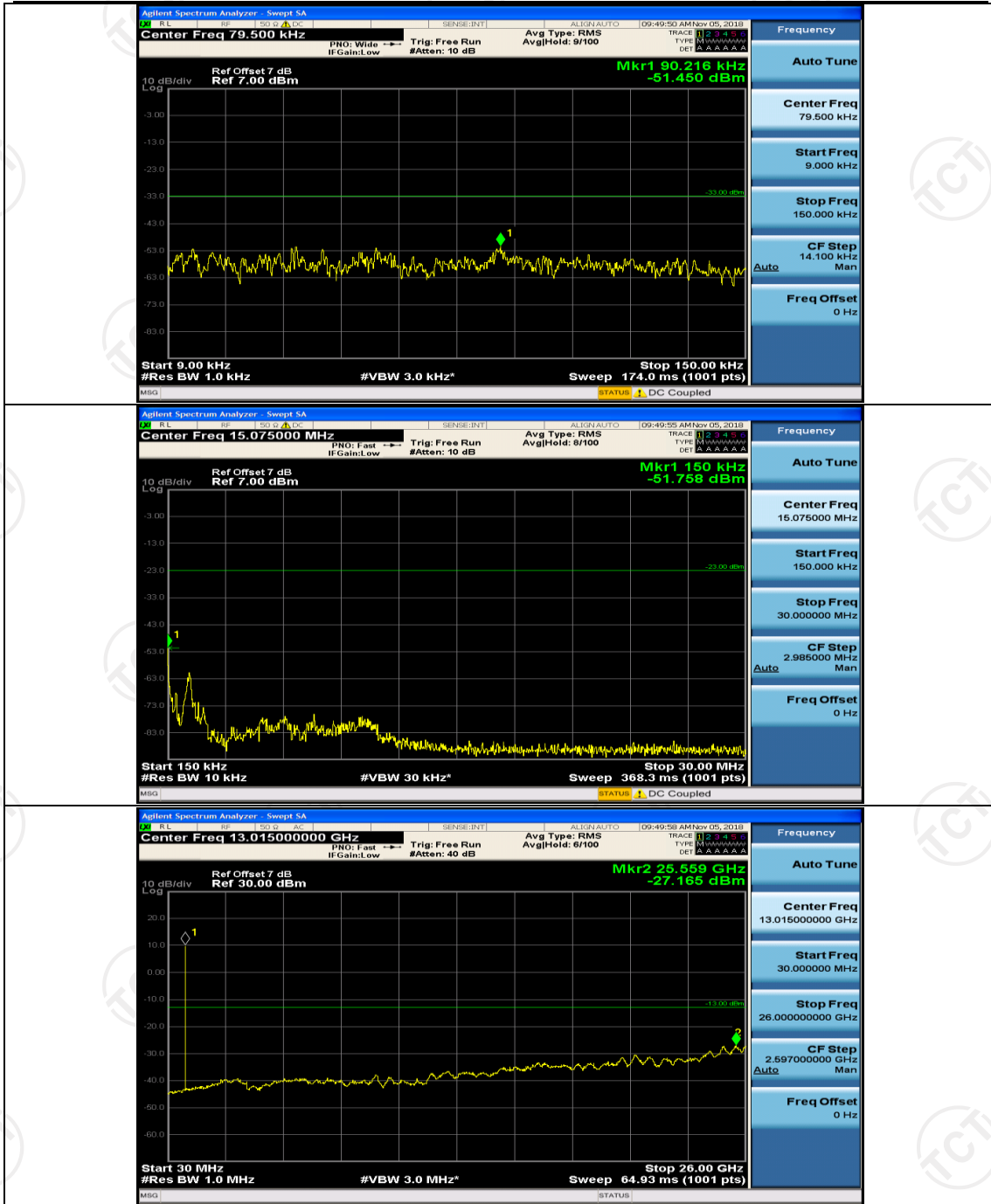


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

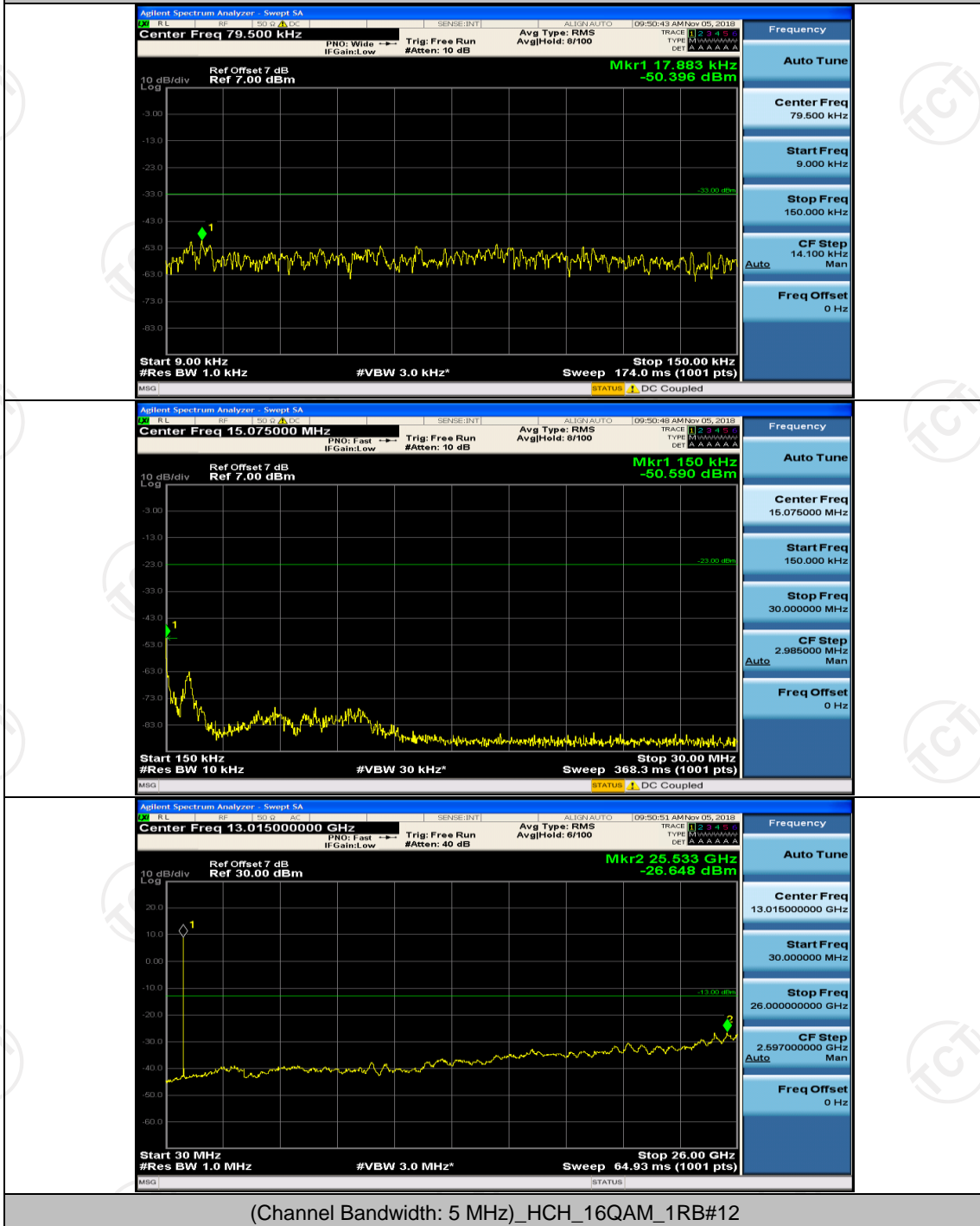


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12

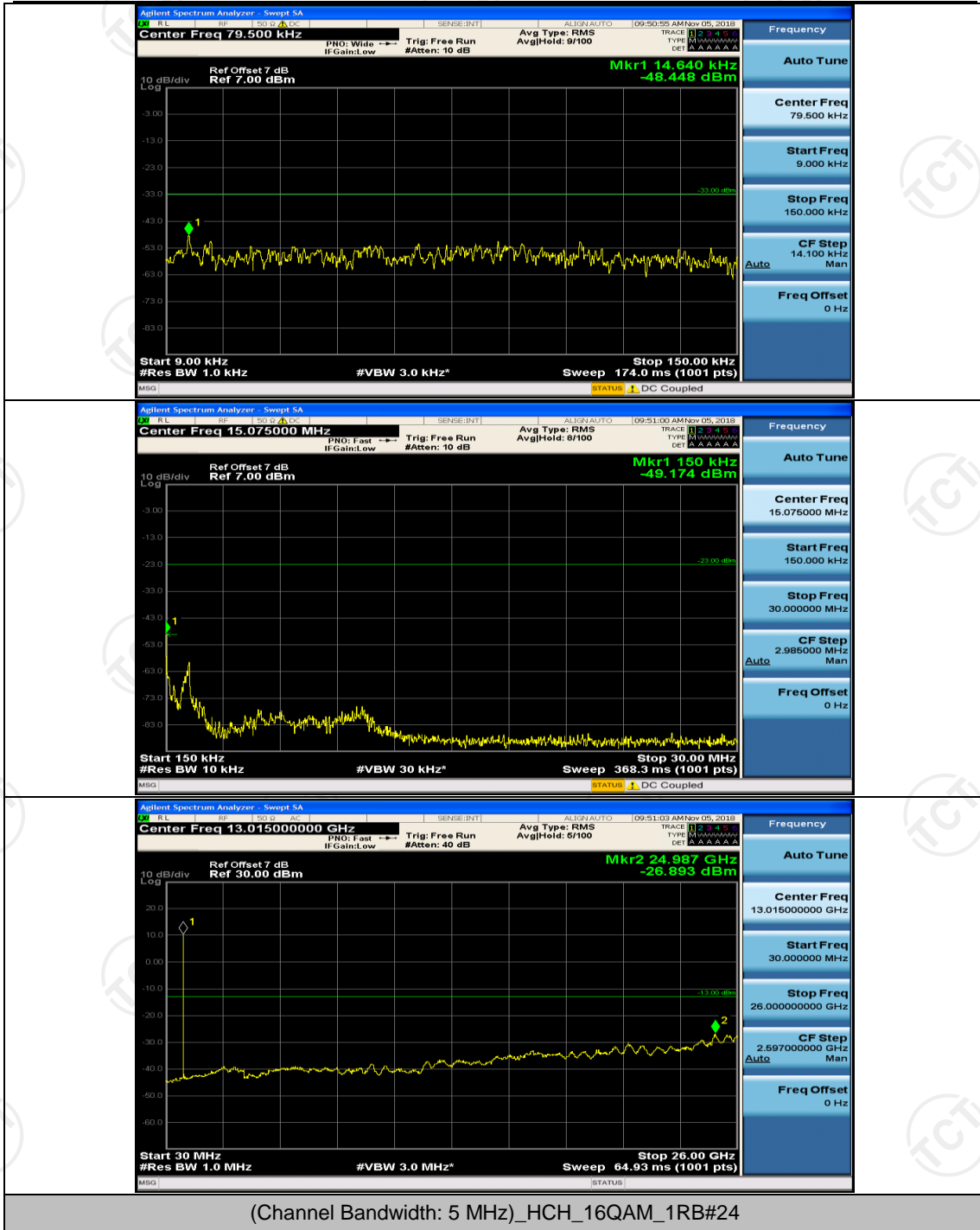


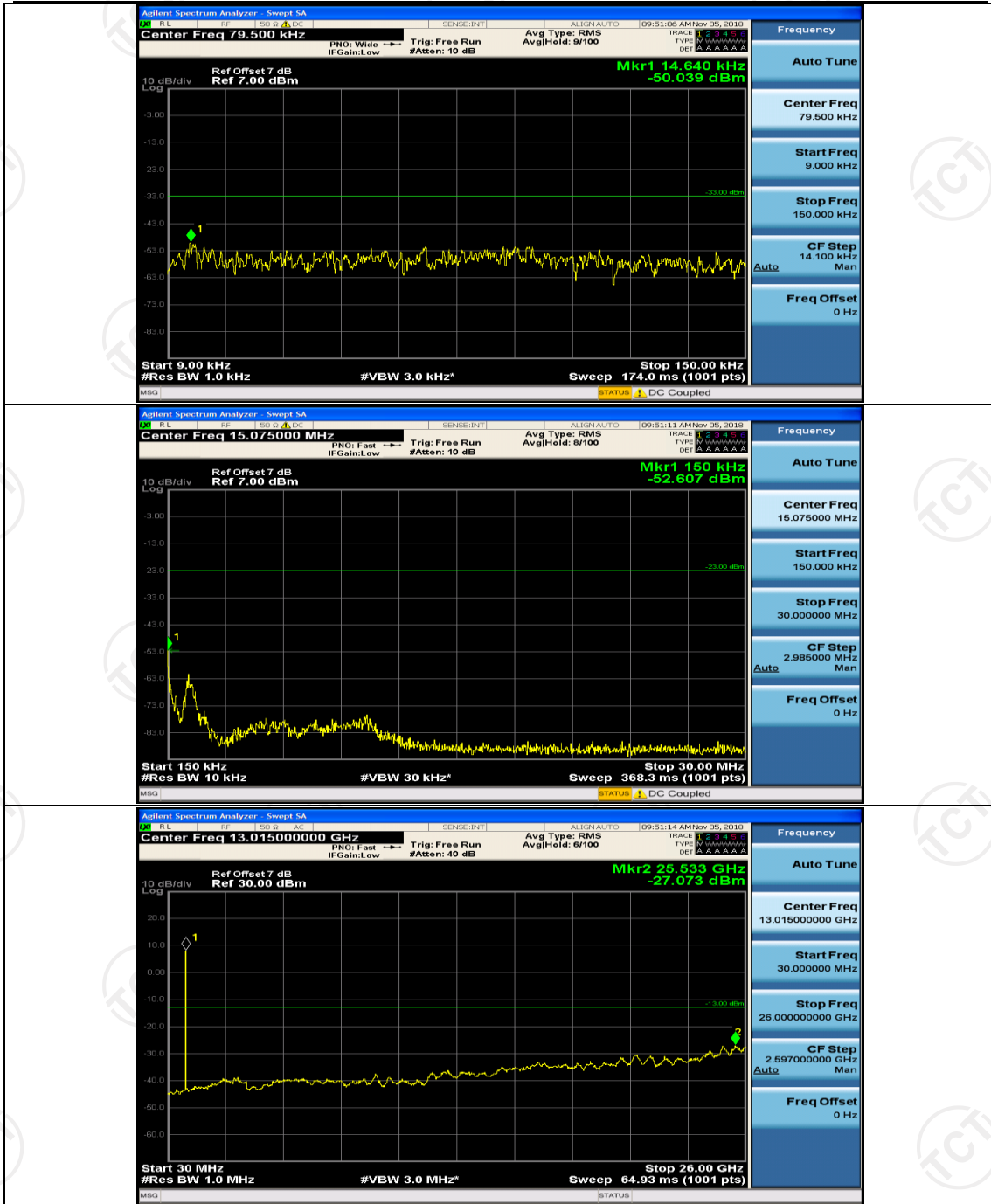


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

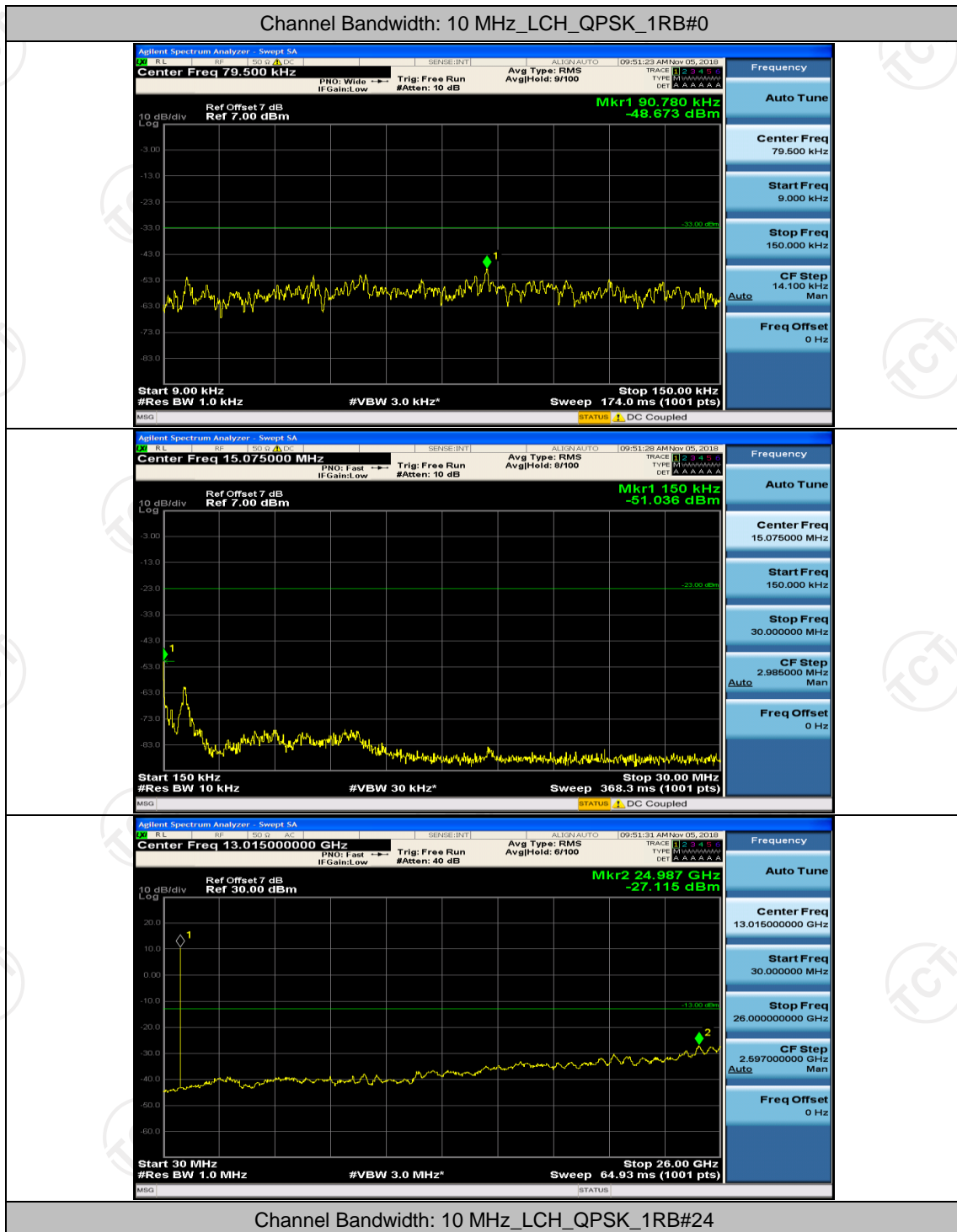


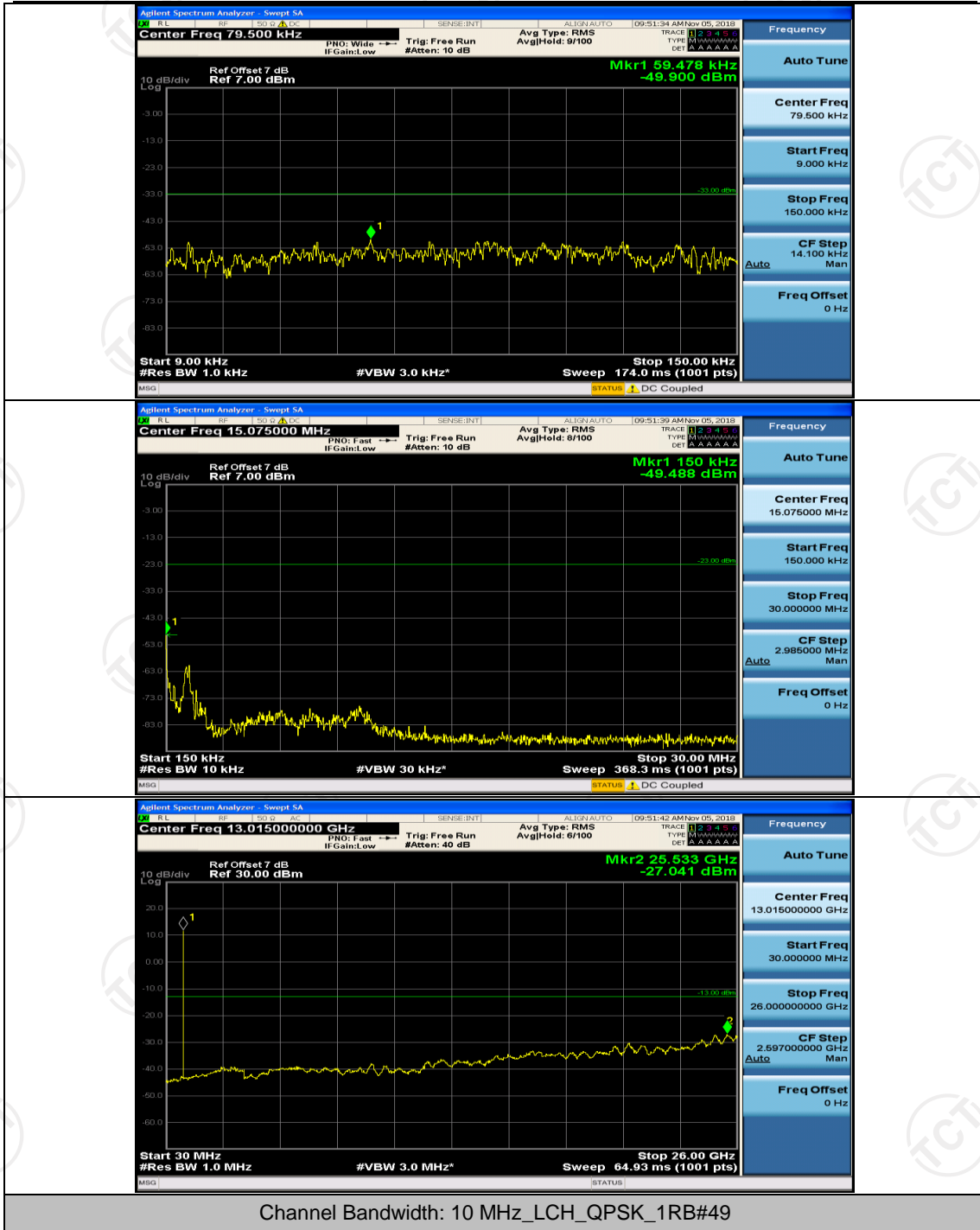
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



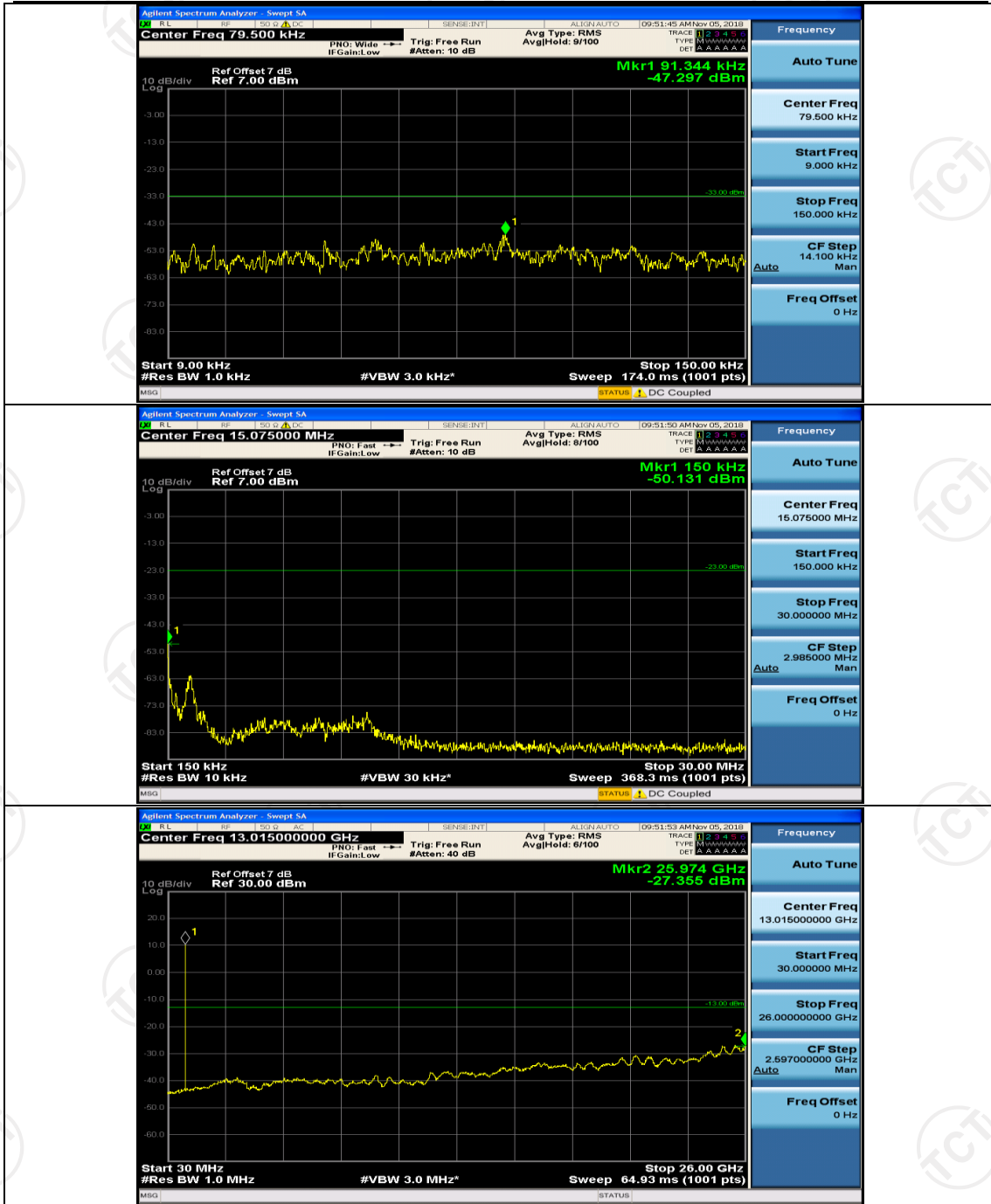


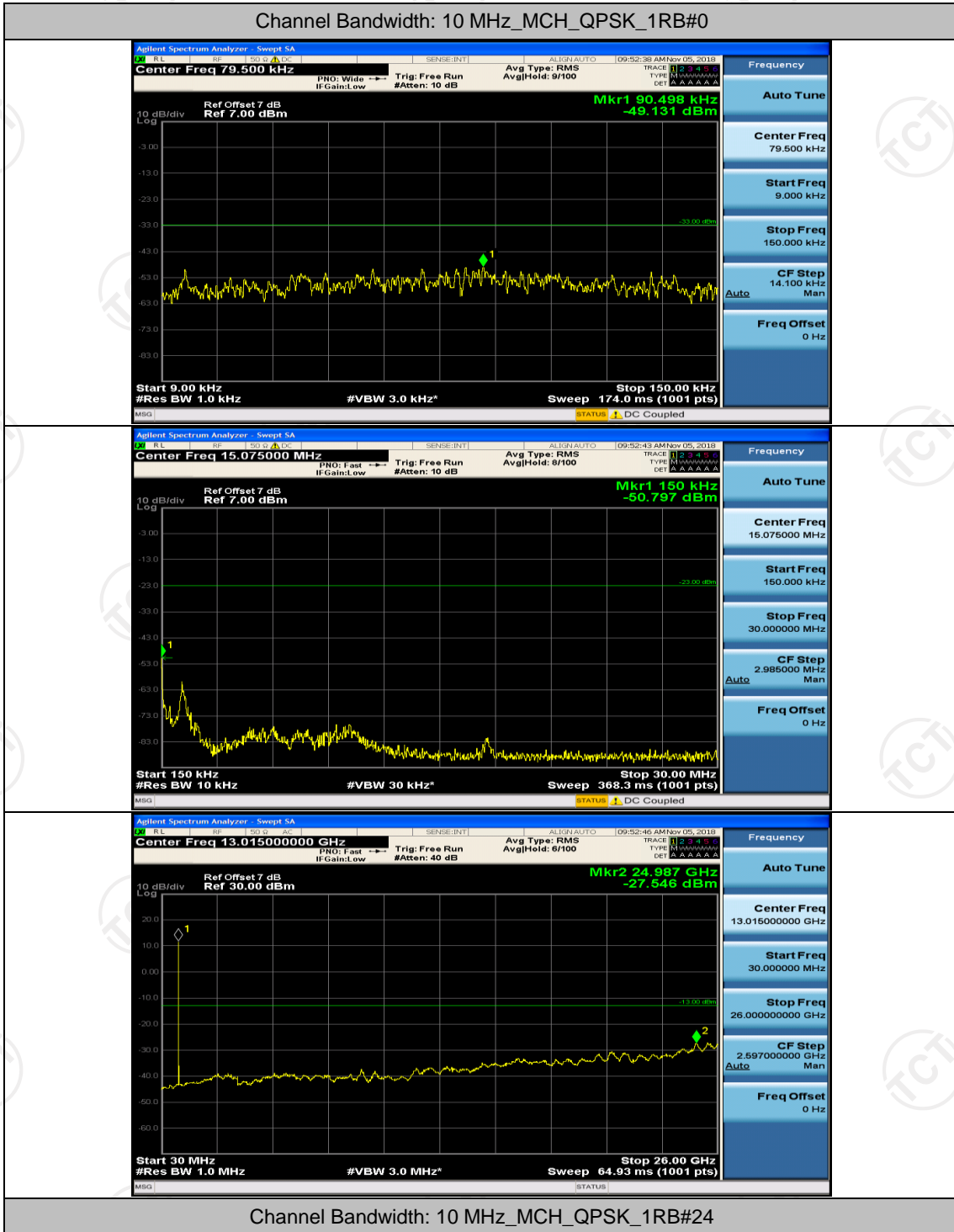
## Channel Bandwidth: 10 MHz

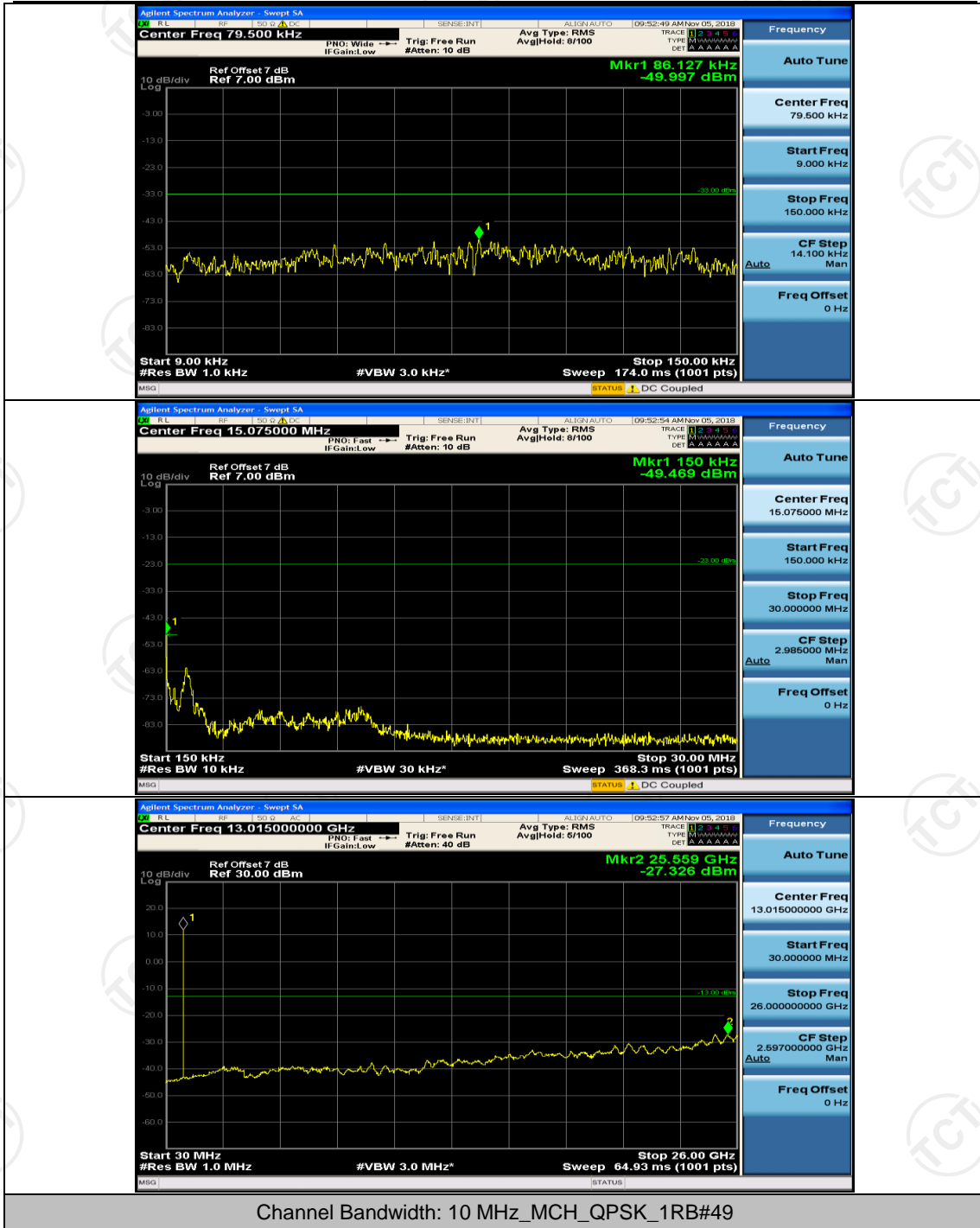


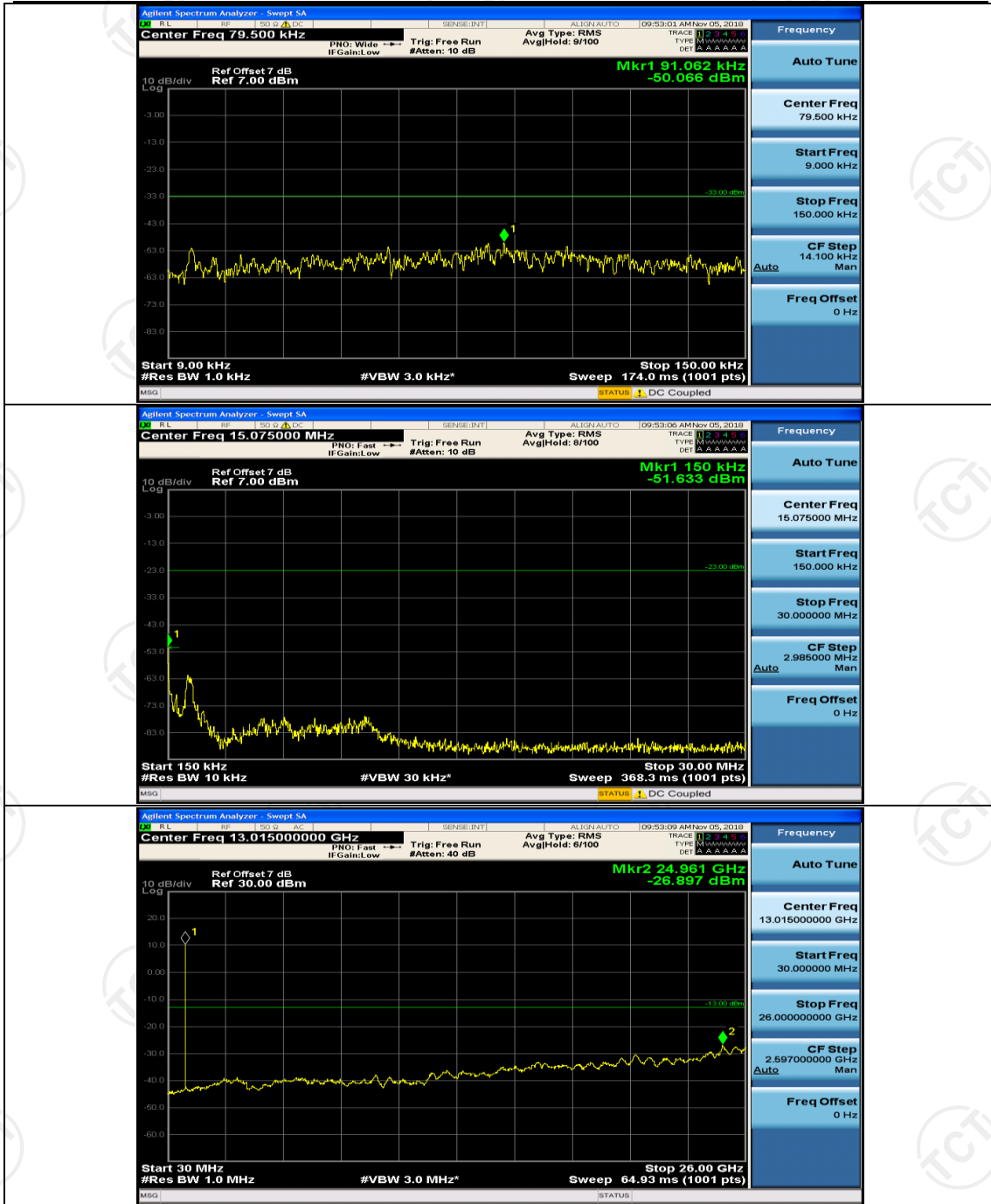




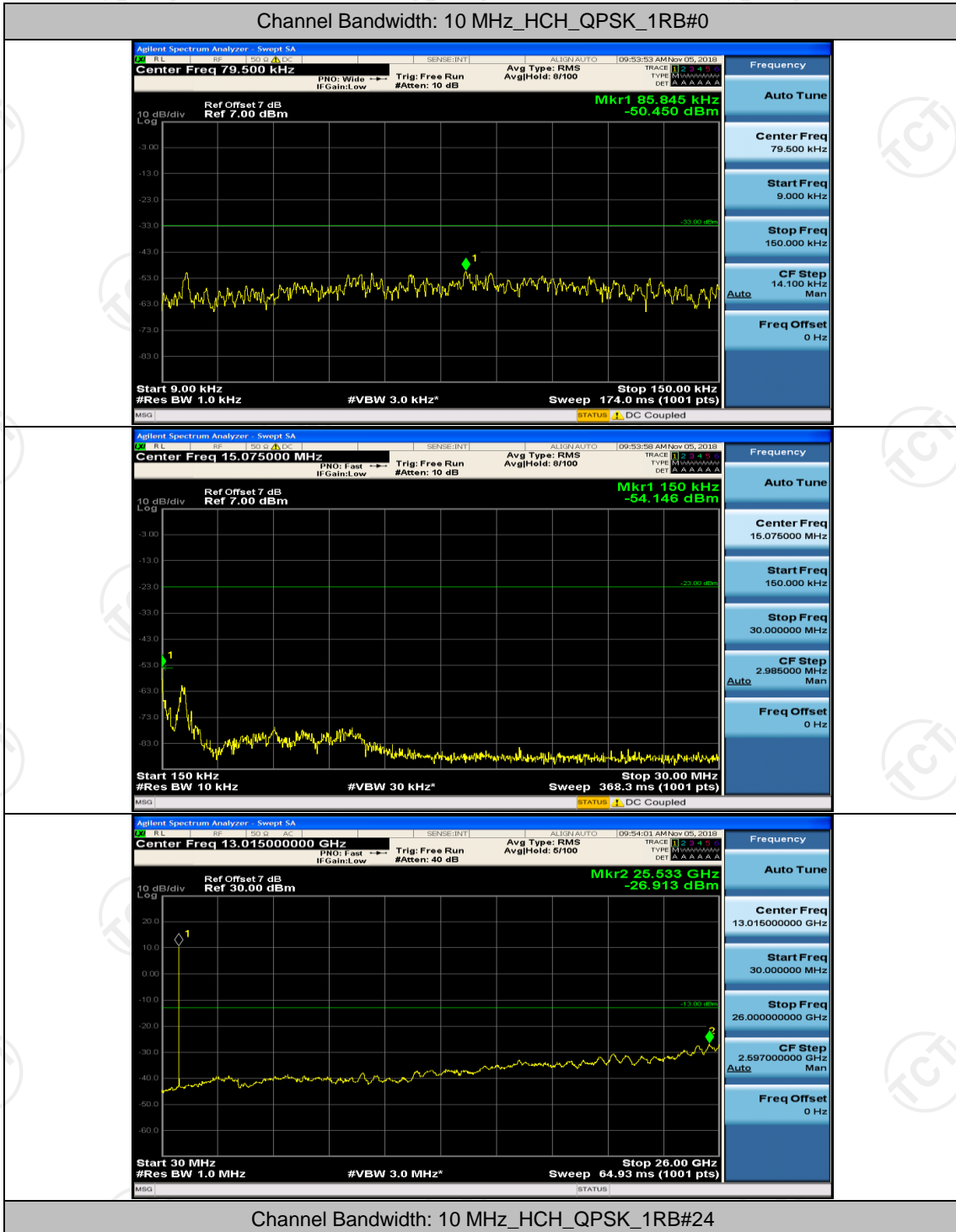


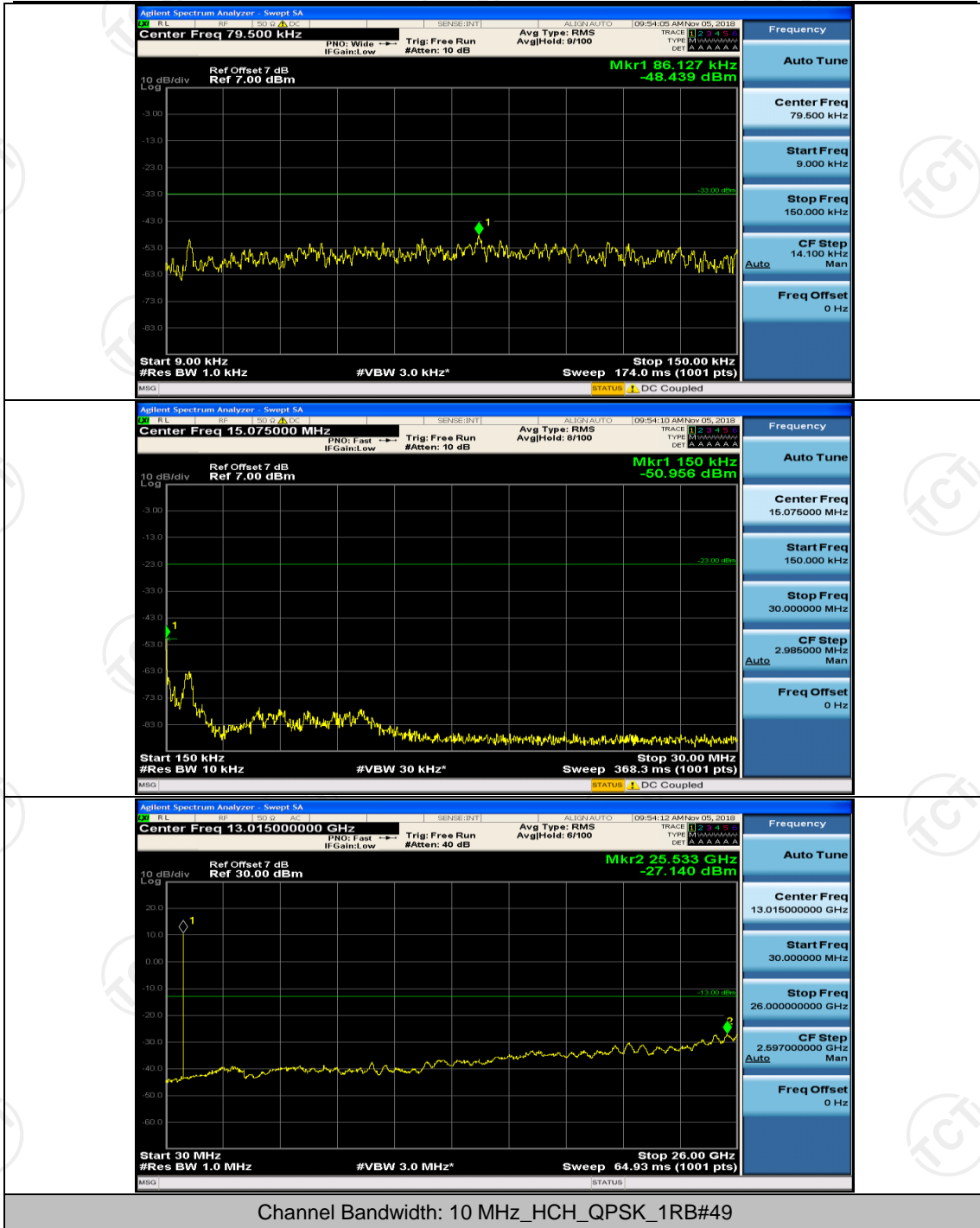


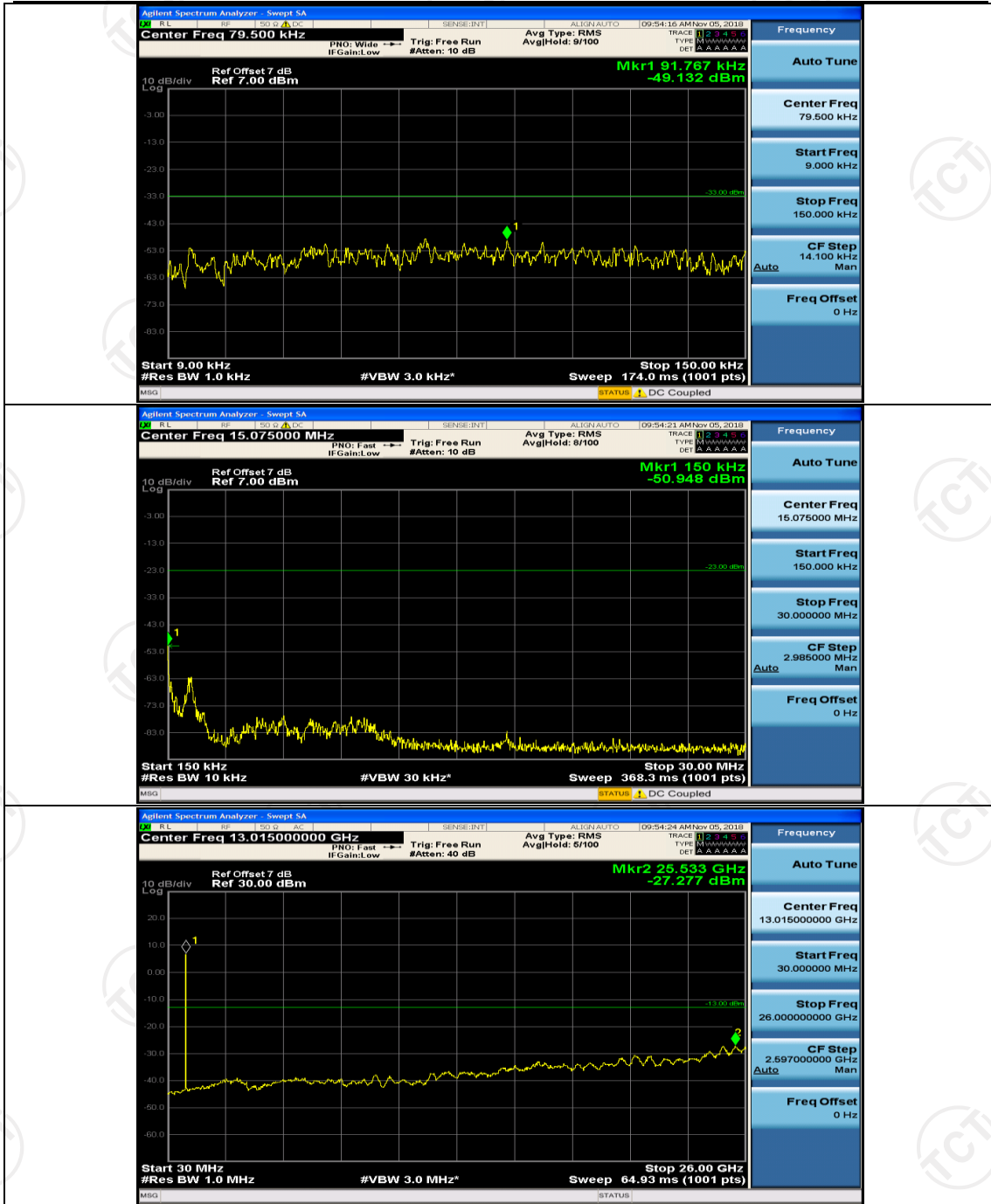




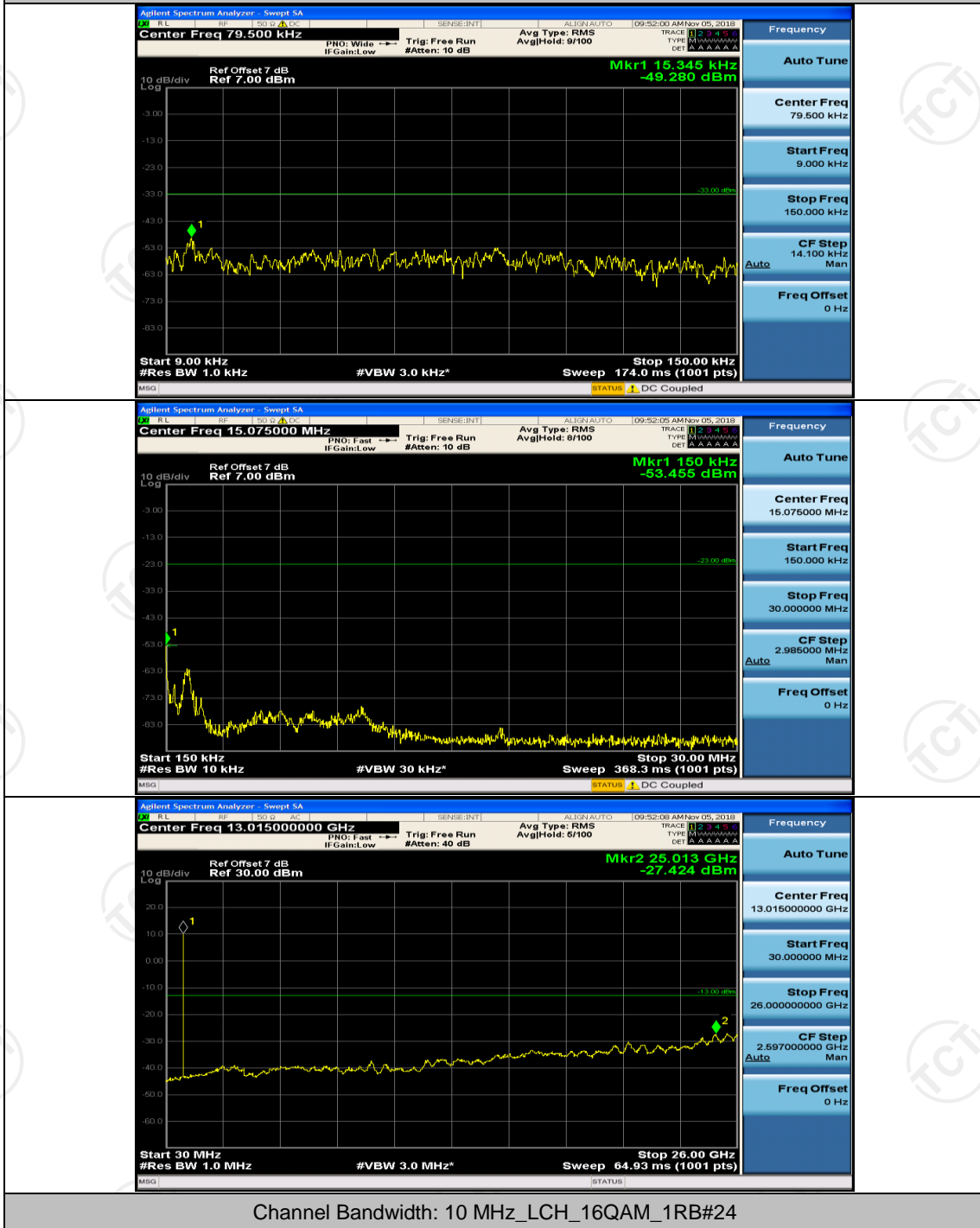
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



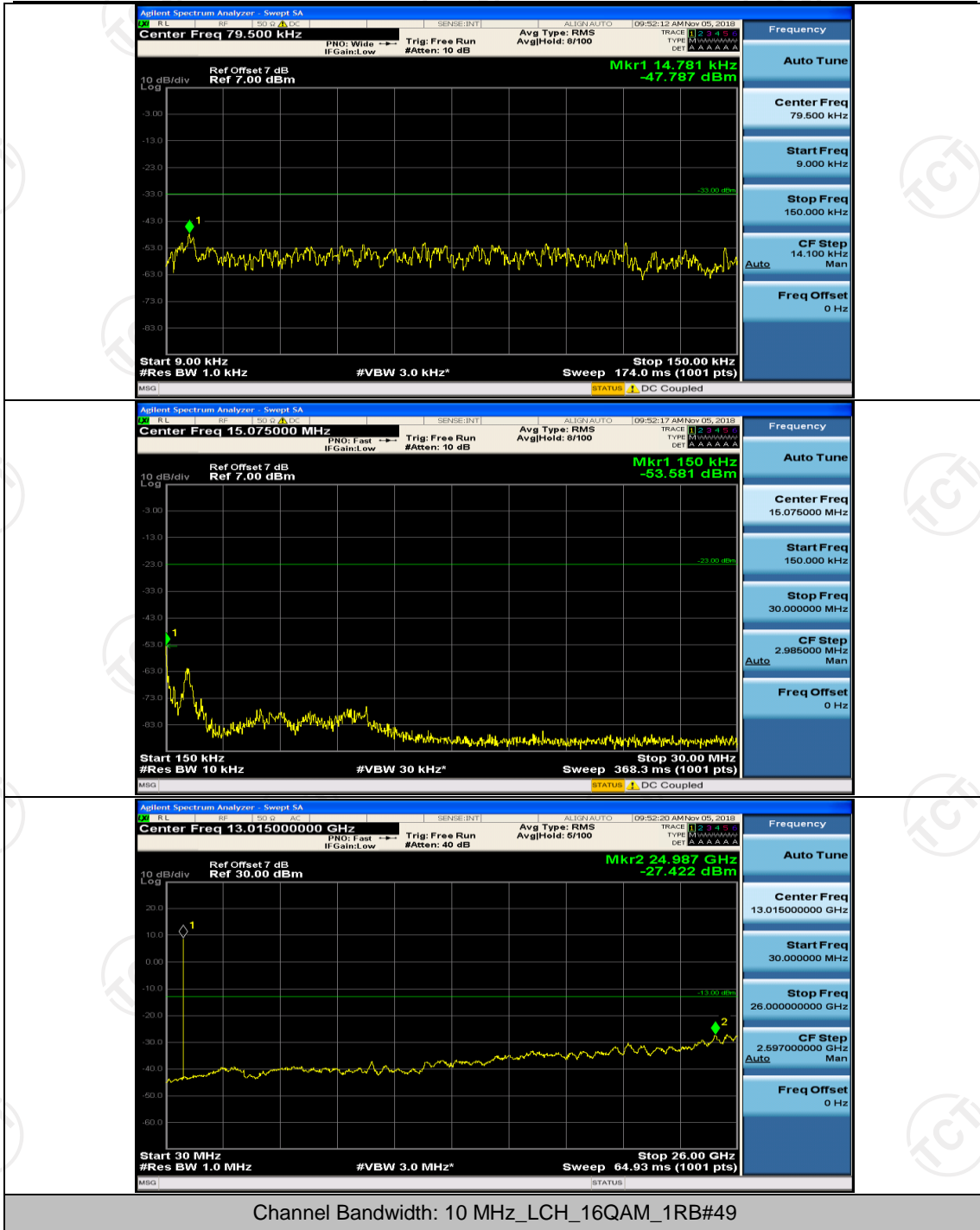


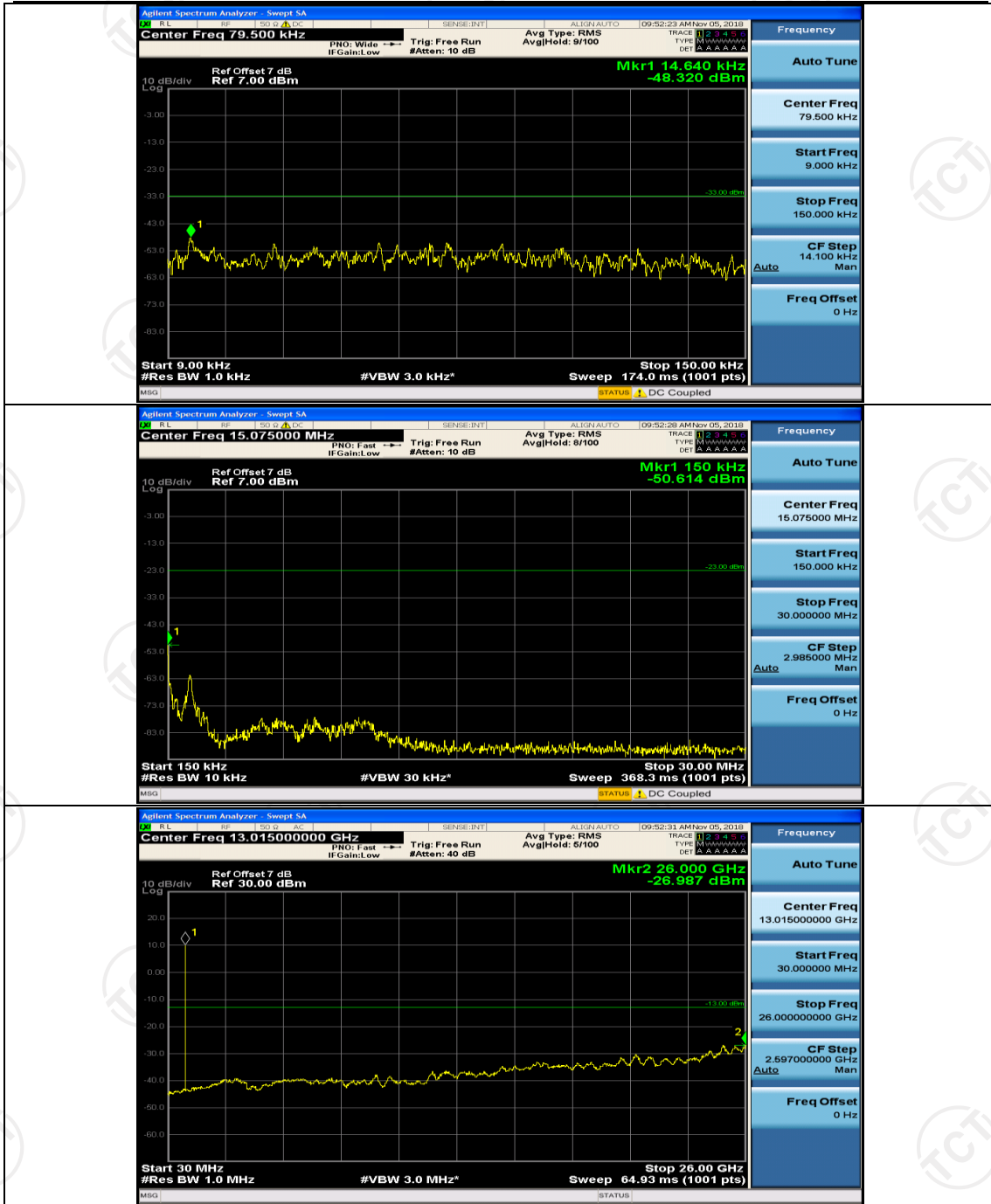


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

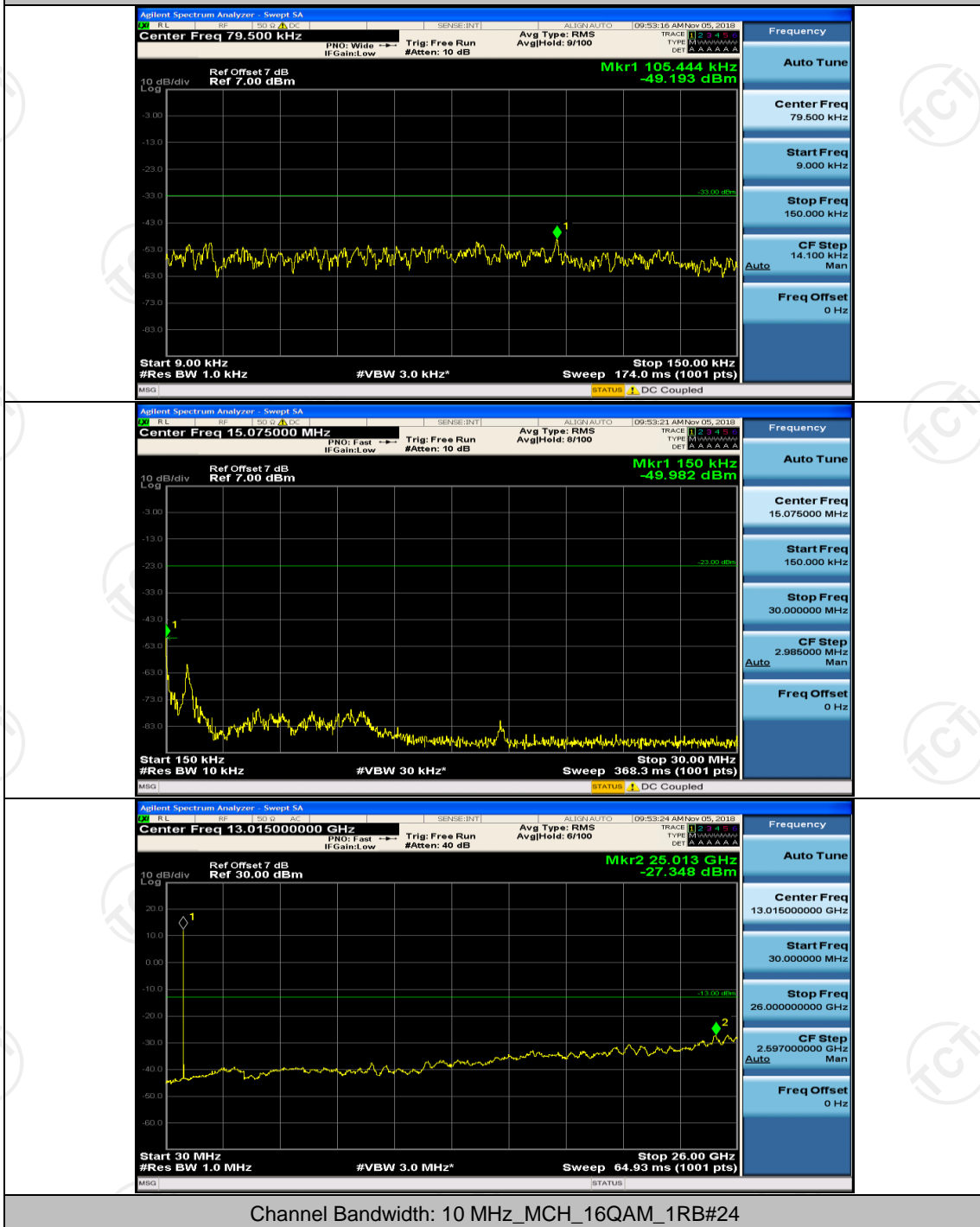




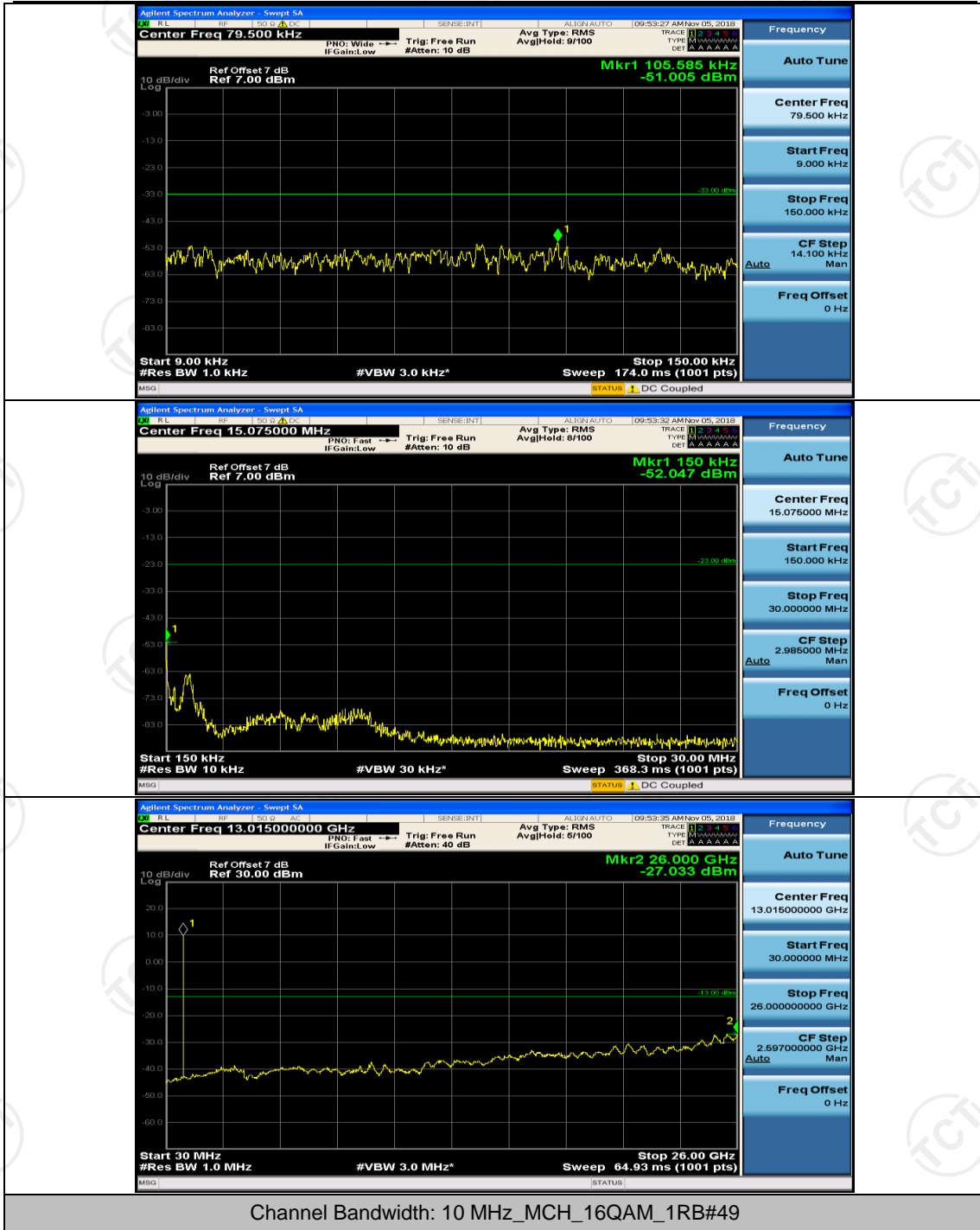


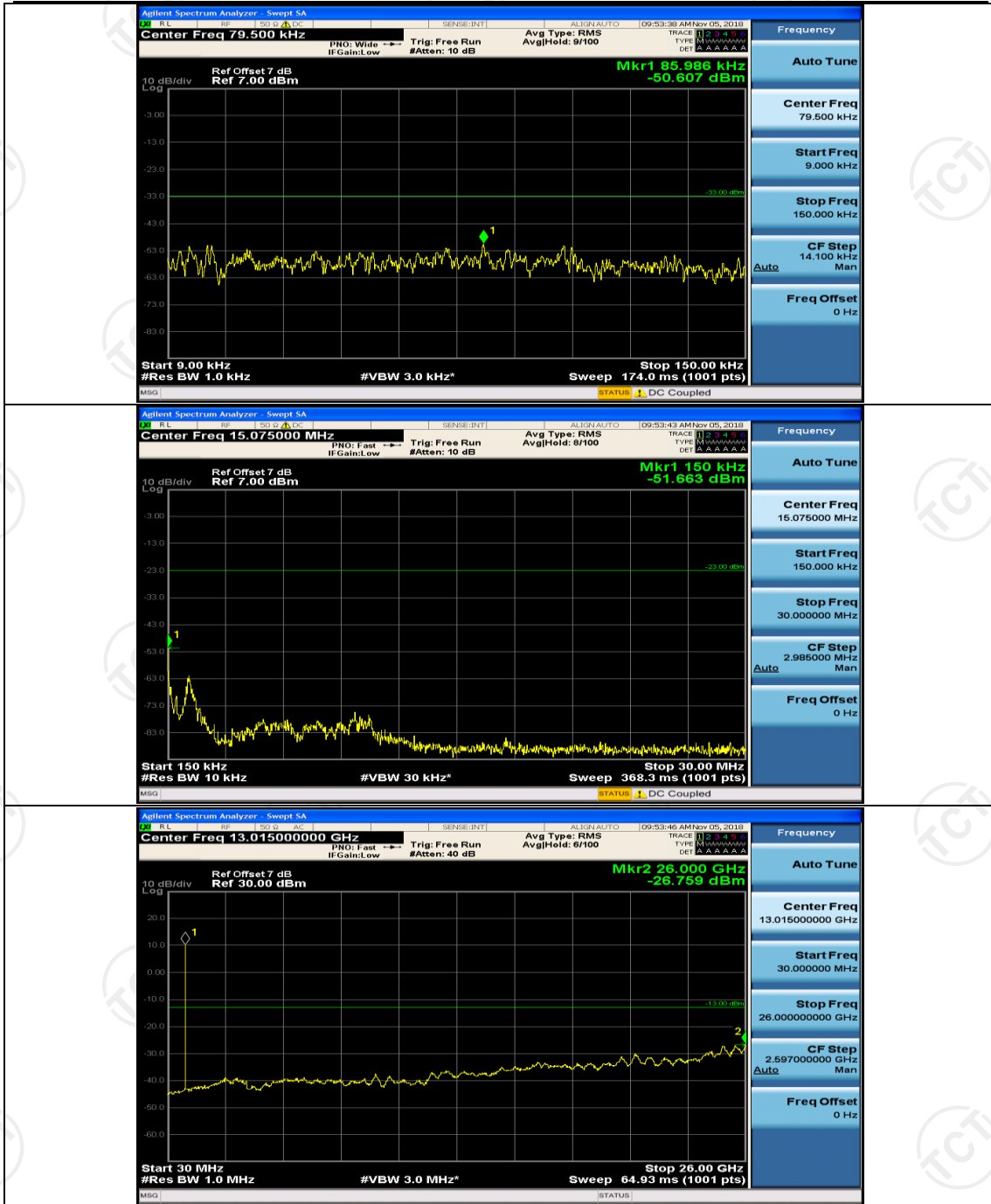


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

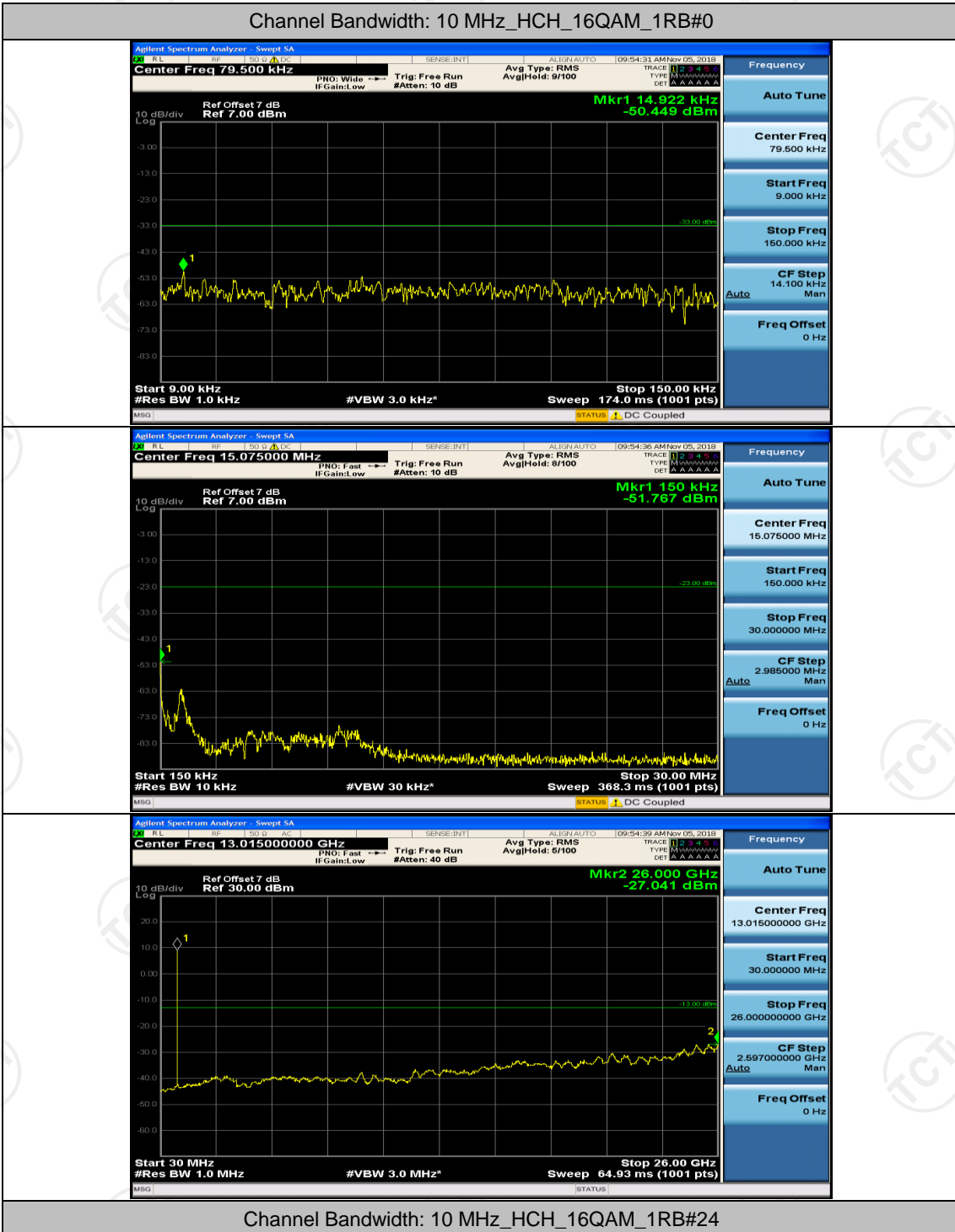


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24

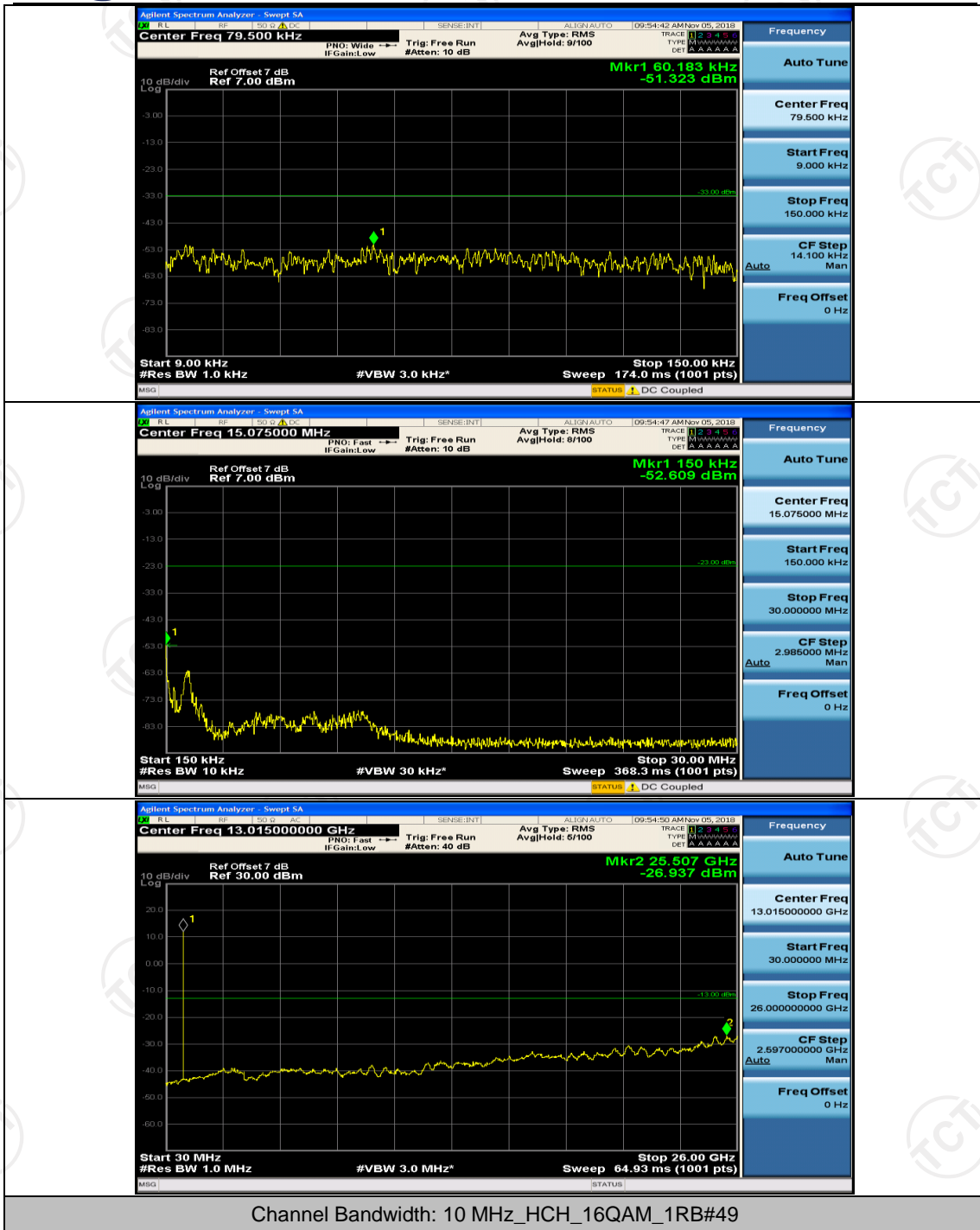


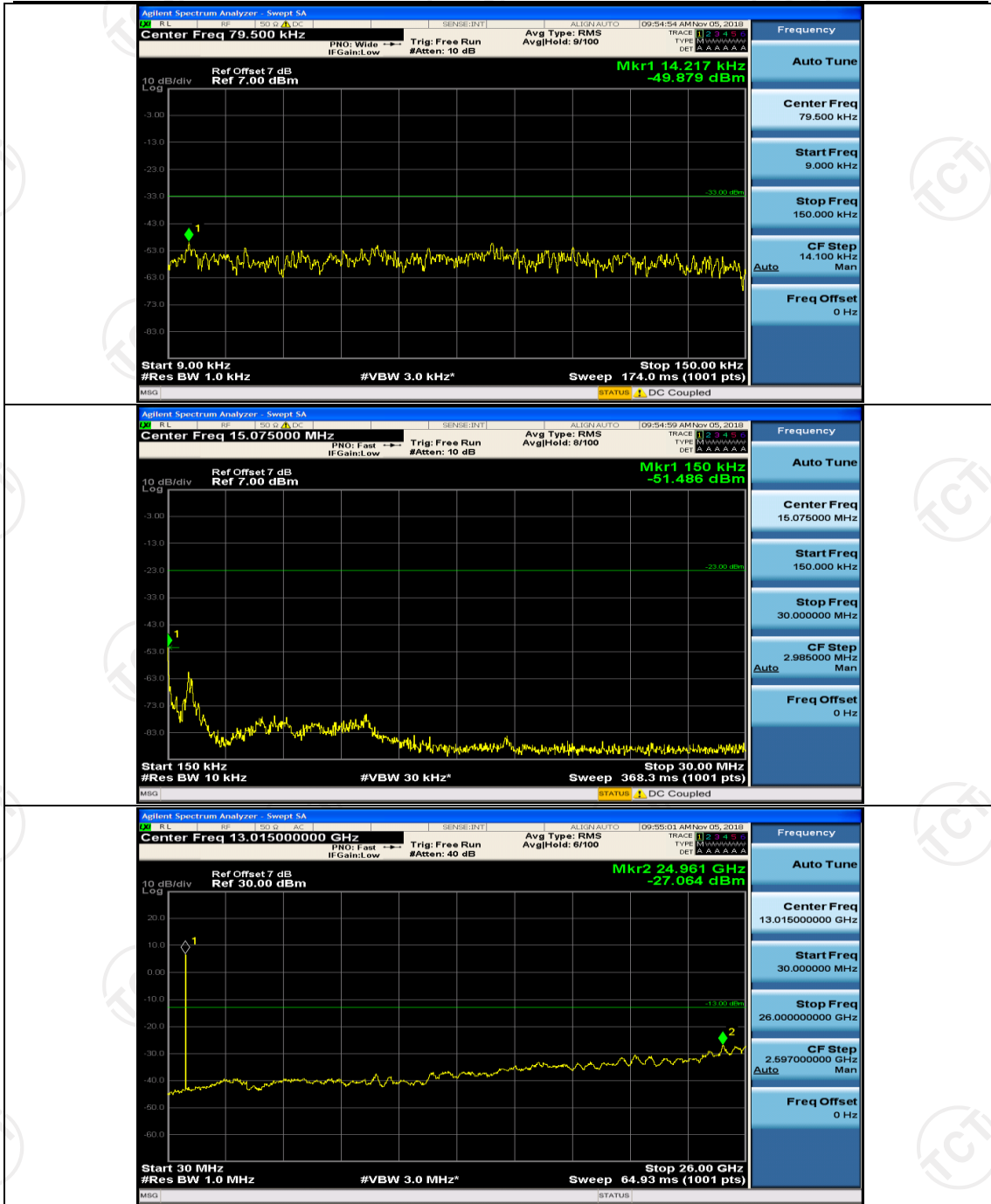


Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24







## Appendix F: Frequency Stability

### Test Result

**Channel Bandwidth: 1.4 MHz**

Channel Bandwidth: 1.4 MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.4	25	0.001821	± 2.5	PASS
		3.85	25	0.001625	± 2.5	PASS
		4.5	25	0.000776	± 2.5	PASS
	MCH	3.4	25	0.000954	± 2.5	PASS
		3.85	25	0.001967	± 2.5	PASS
		4.5	25	0.000944	± 2.5	PASS
	HCH	3.4	25	0.002166	± 2.5	PASS
		3.85	25	0.003369	± 2.5	PASS
		4.5	25	-0.001333	± 2.5	PASS
16QAM	LCH	3.4	25	-0.002166	± 2.5	PASS
		3.85	25	0.001984	± 2.5	PASS
		4.5	25	-0.000810	± 2.5	PASS
	MCH	3.4	25	0.002267	± 2.5	PASS
		3.85	25	0.004481	± 2.5	PASS
		4.5	25	-0.001183	± 2.5	PASS
	HCH	3.4	25	0.003289	± 2.5	PASS
		3.85	25	0.000821	± 2.5	PASS
		4.5	25	-0.001927	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.85	-30	0.000052	± 2.5	PASS
		3.85	-20	0.000798	± 2.5	PASS
		3.85	-10	0.000225	± 2.5	PASS
		3.85	0	0.000607	± 2.5	PASS
		3.85	10	0.000359	± 2.5	PASS
		3.85	20	-0.000581	± 2.5	PASS
		3.85	30	0.001334	± 2.5	PASS
		3.85	40	-0.001522	± 2.5	PASS
	MCH	3.85	50	0.002209	± 2.5	PASS
		3.85	-30	-0.000101	± 2.5	PASS
		3.85	-20	0.001906	± 2.5	PASS
		3.85	-10	0.003744	± 2.5	PASS
		3.85	0	-0.004007	± 2.5	PASS
		3.85	10	-0.003330	± 2.5	PASS
		3.85	20	0.000833	± 2.5	PASS
3.85	30	-0.002793	± 2.5	PASS		

		3.85	40	0.001231	± 2.5	PASS
		3.85	50	0.000941	± 2.5	PASS
	HCH	3.85	-30	0.002155	± 2.5	PASS
		3.85	-20	0.002514	± 2.5	PASS
		3.85	-10	0.000101	± 2.5	PASS
		3.85	0	0.002395	± 2.5	PASS
		3.85	10	-0.001804	± 2.5	PASS
		3.85	20	0.001467	± 2.5	PASS
		3.85	30	0.000052	± 2.5	PASS
		3.85	40	0.001248	± 2.5	PASS
		3.85	50	0.001092	± 2.5	PASS
16QAM		LCH	3.85	-30	0.001282	± 2.5
	3.85		-20	-0.002086	± 2.5	PASS
	3.85		-10	-0.000428	± 2.5	PASS
	3.85		0	0.000068	± 2.5	PASS
	3.85		10	0.001864	± 2.5	PASS
	3.85		20	0.001063	± 2.5	PASS
	3.85		30	0.001367	± 2.5	PASS
	3.85		40	-0.001350	± 2.5	PASS
	3.85		50	-0.000928	± 2.5	PASS
	MCH		3.85	-30	0.001300	± 2.5
		3.85	-20	0.001057	± 2.5	PASS
		3.85	-10	0.001282	± 2.5	PASS
		3.85	0	0.000780	± 2.5	PASS
		3.85	10	0.001454	± 2.5	PASS
		3.85	20	0.001847	± 2.5	PASS
		3.85	30	0.001043	± 2.5	PASS
		3.85	40	0.001283	± 2.5	PASS
		3.85	50	0.000152	± 2.5	PASS
		HCH	3.85	-30	0.002886	± 2.5
	3.85		-20	-0.000945	± 2.5	PASS
	3.85		-10	-0.000371	± 2.5	PASS
	3.85		0	0.002285	± 2.5	PASS
	3.85		10	0.003167	± 2.5	PASS
	3.85		20	0.001540	± 2.5	PASS
	3.85		30	0.003064	± 2.5	PASS
	3.85		40	0.004309	± 2.5	PASS
	3.85		50	0.000274	± 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>1.4M</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)		
1649.4	Vertical	-37.24	-13.00	PASS
2474.1	V	-48.59		
-	V	-		
1649.4	Horizontal	-41.73		
2474.1	H	-46.15		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</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)		
1673	Vertical	-39.42	-13.00	PASS
2509.5	V	-49.87		
-	V	-		
1673	Horizontal	-40.08		
2509.5	H	-48.54		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</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)		
1692.6	Vertical	-40.68	-13.00	PASS
2538.9	V	-46.14		
-	V	-		
1692.6	Horizontal	-39.39		
2538.9	H	-47.27		
-	H	-		

<b>Bandwidth:</b>	<b>1.4M</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)		
1649.4	Vertical	-40.13	-13.00	PASS
2474.1	V	-48.59		
-	V	-		
1649.4	Horizontal	-41.05		
2474.1	H	-46.72		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</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)		
1673	Vertical	-40.56	-13.00	PASS
2509.5	V	-48.24		
-	V	-		
1673	Horizontal	-41.09		
2509.5	H	-48.71		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</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)		
1692.6	Vertical	-39.80	-13.00	PASS
2538.9	V	-46.34		
-	V	-		
1692.6	Horizontal	-40.48		
2538.9	H	-49.72		
-	H	-		

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

