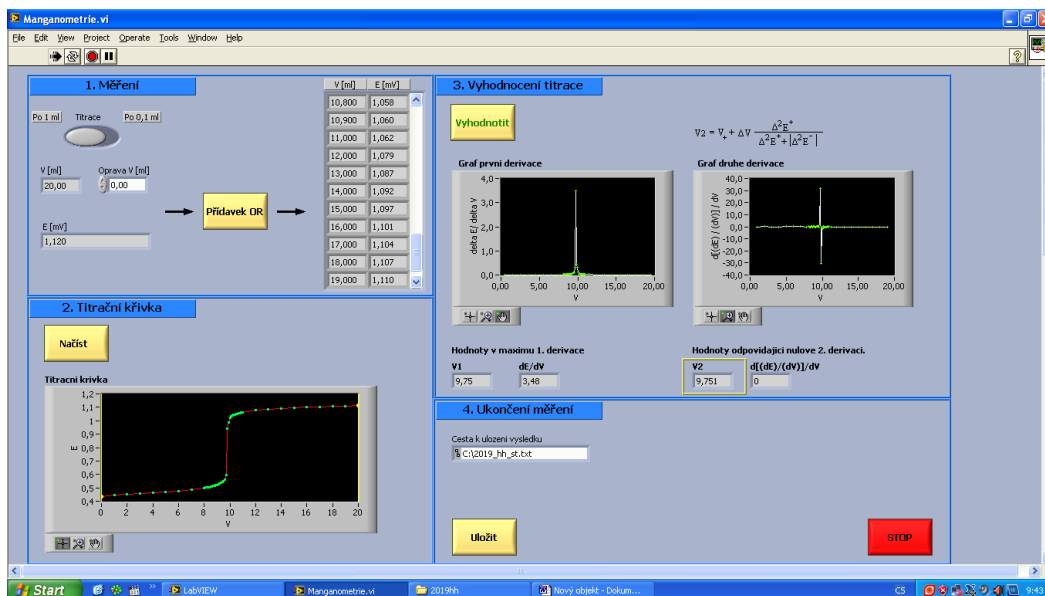


# 12\_MANGANOMETRIE

## 1) Stanovení koncentrace 0,002m KMnO<sub>4</sub>

- titrace byla provedena pouze 1×
- navážka K<sub>4</sub>[Fe(CN)<sub>3</sub>]·3H<sub>2</sub>O      m<sub>N</sub> = **400,5 mg**

V (ml)	E (V)	V (ml)	E (V)	V (ml)	E (V)	V (ml)	E (V)
0,000	0,437	8,600	0,510	10,000	1,019	15,000	1,097
1,000	0,444	8,700	0,513	10,100	1,033	16,000	1,101
2,000	0,450	8,800	0,515	10,200	1,037	17,000	1,104
3,000	0,457	8,900	0,518	10,300	1,042	18,000	1,107
4,000	0,463	9,000	0,522	10,400	1,046	19,000	1,110
5,000	0,469	9,100	0,526	10,500	1,049	20,000	1,111
6,000	0,477	9,200	0,530	10,600	1,052		
7,000	0,487	9,300	0,536	10,700	1,055		
8,000	0,500	9,400	0,543	10,800	1,058		
8,100	0,501	9,500	0,552	10,900	1,060		
8,200	0,503	9,600	0,561	11,000	1,062		
8,300	0,505	9,700	0,594	12,000	1,079		
8,400	0,506	9,800	0,942	13,000	1,087		
8,500	0,508	9,900	0,987	14,000	1,092		

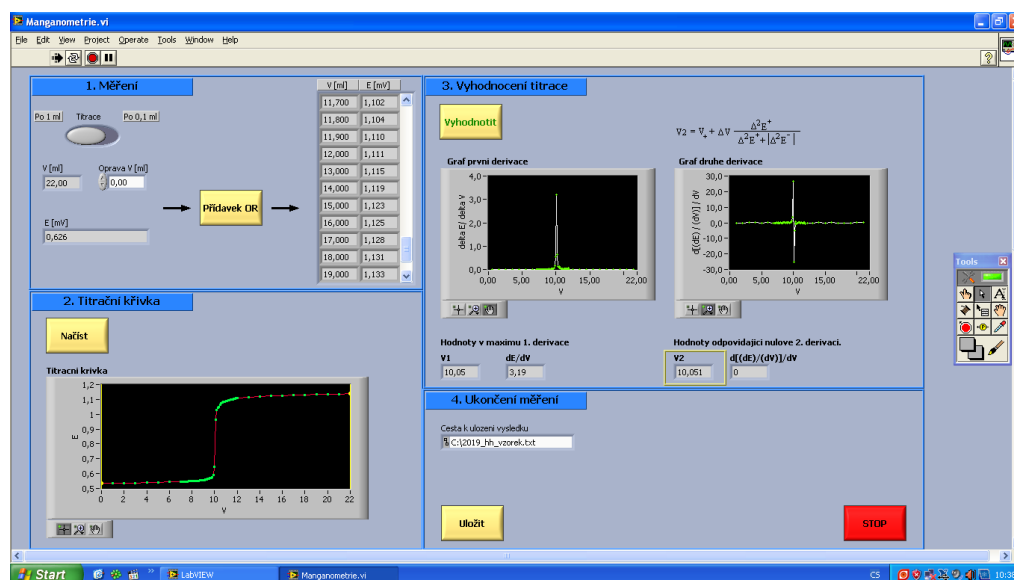


Obr. 1 Ukázka standardizace 0,002M KMnO<sub>4</sub> pomocí programu LabView

## 2) Stanovení koncentrace Fe<sup>2+</sup> v neznámém vzorku

- neznámý vzorek byl v 50 ml odměrné baňce doplněn po rysku dest.vodou
- titrace byla provedena pouze 1×

V (ml)	E (V)	V (ml)	E (V)	V (ml)	E (V)	V (ml)	E (V)
0,000	0,534	8,000	0,548	9,700	0,572	11,400	1,097
1,000	0,535	8,100	0,549	9,800	0,577	11,500	1,099
2,000	0,536	8,200	0,550	9,900	0,592	11,600	1,100
3,000	0,537	8,300	0,550	10,000	0,645	11,700	1,102
4,000	0,539	8,400	0,551	10,100	0,964	11,800	1,104
5,000	0,541	8,500	0,551	10,200	1,029	11,900	1,110
6,000	0,543	8,600	0,552	10,300	1,043	12,000	1,111
7,000	0,546	8,700	0,553	10,400	1,051	13,000	1,115
7,100	0,546	8,800	0,554	10,500	1,065	14,000	1,119
7,200	0,546	8,900	0,554	10,600	1,073	15,000	1,123
7,300	0,546	9,000	0,556	10,700	1,079	16,000	1,125
7,400	0,546	9,100	0,557	10,800	1,082	17,000	1,128
7,500	0,547	9,200	0,558	10,900	1,086	18,000	1,131
7,600	0,547	9,300	0,560	11,000	1,090	19,000	1,133
7,700	0,548	9,400	0,563	11,100	1,091	20,000	1,134
7,800	0,548	9,500	0,565	11,200	1,093	21,000	1,136
7,900	0,548	9,600	0,568	11,300	1,095	22,000	1,139



Obr. 2 Ukázka standardizace 0,002M KMnO<sub>4</sub> pomocí programu LabView