Software UniChrom to unify work with different analytical equipments from different vendors

There is the following situation in the researches laboratories: very heterogeneous park of analytical equipments

From different Vendors

Gas chromatographs



Liquid chromatographs

Spectrometers UV, IR, Vis, AES, AAS, MS























Device model	Vendor	Software name
Agilent (HP) -USA	Agilent (Hewlett-Packard)	ChemStation
Varian - USA	Varian	Star WorkStation / Gallaxy
Perkin-Elmer - USA	Perkin-Elmer	TurboChrom / TotalChrom
Shimadzu GC17/2010 -Japan	Shimadzu	GC Solution / Class VP
Crystall 2000M/5000 -Russia	JS «Chromatek»	Chromatec-Analytic
Crystalluks 4000 Russia	JS «Metachrom»	NetChrom
Tswett-800	Tswett Ltd.	Tswett-Chrom
MiLiChrom-5	JS «Nauchpribor»	E-Chrom
MiLiChrom A-02	JS «EcoNova»	M-Chrom
ThermoFinnigan Trace2000/Focus	Scientific Software	EZChrom / Xcalibur

The analogue situation was about 30 years ago.

There were many text processor packages in Laboratories.

Demand to free migration of text documents between different computers has generated the following situation:

- the computers may be different but the text processor software Microsoft Word is the same in the most offices computers over the world.

All devices are controlled in unified style

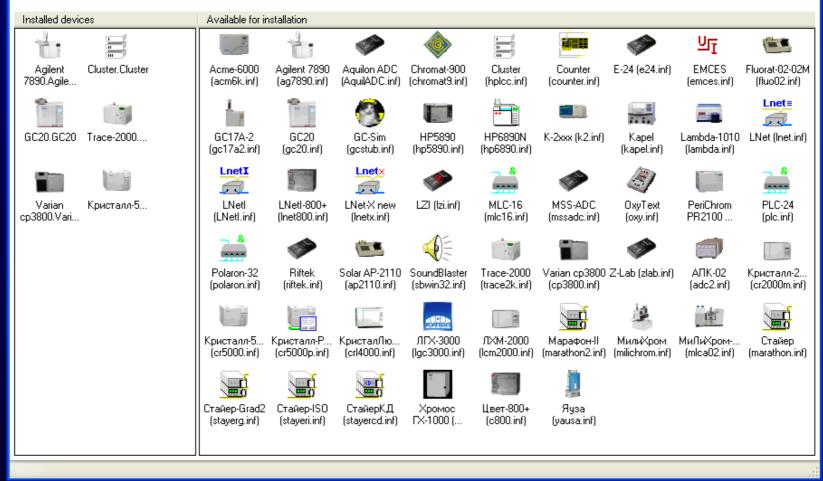
🖳 UniChrom[™] - driver installer and configuration editor



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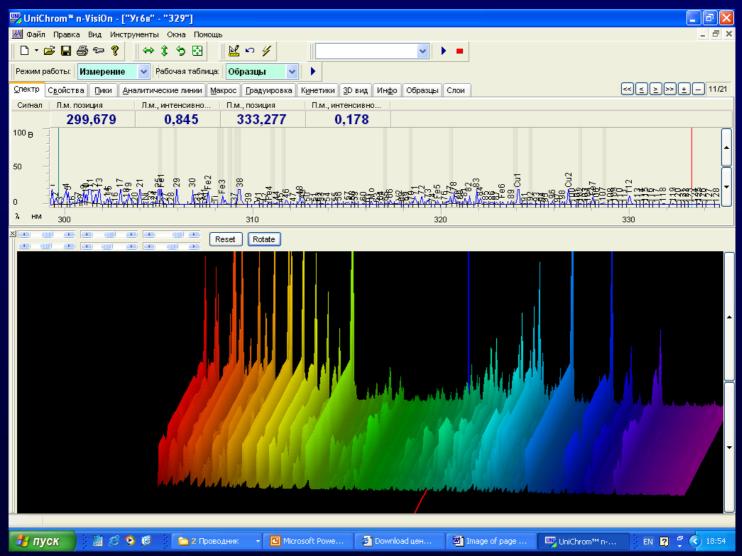


For driver installation just drag with the mouse Instrument icon from the "Available section" (at the right) to "Installed" section (at the left). For driver Removal drag the Instrument icon from the "Installed devices" section to the "Available" instruments. Instrument settings is done in Settings Dialog on double click on Instrument icon in left section.

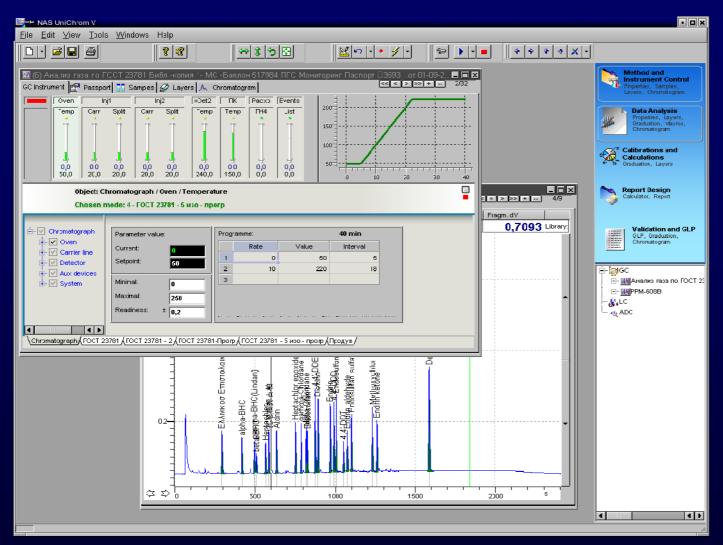


Different UV, IR, AAS and AES

UniChrom – AES



Distinctives of Unichrom



Abstract representation of the method focused the Analyst to analytical details instead of instrument peculiarities

Quality control of Spirit Drinks. Thousands food control laboratories: over the world, day-and-night, there are many different analytical equipments but the software may be the same.

🥙 UniChrom - поверка систелык - Windows Internet Explorer		
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Free migration of methods between different instruments.

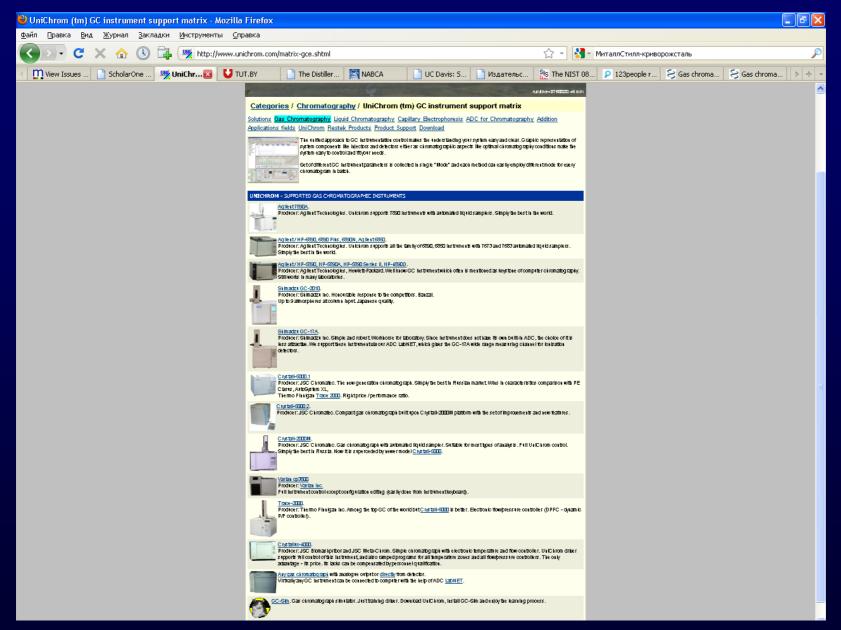
- 1. Certification of the software package UniChrom.
- 2. Development and Approval of the unified State Standard for validation different analytical equipment with UniChrom.
- **3.** Introducing in the Accredited testing Laboratories
- 4. The biggest Oil Refineries
- 5. Food control Laboratories
- 6. Toxic laboratories in narco dispensaries
- 7. Studies and Researches Laboratories in the leading Universities
- 8. Participation in leading international conferences and exhibitions.
- 9. Ready analytical solutions and there openness
- 10.Openness presentation in *Internet*.



Control laboratory in JS «Nevynnommusky Azot» (Russian Federation) . UniChrom from one PC controls simultaneous: Crystal-5000 (3), Crystall-2000M (3), HP6890N (1), Tswett-800 (2), Tswett-100 (3).

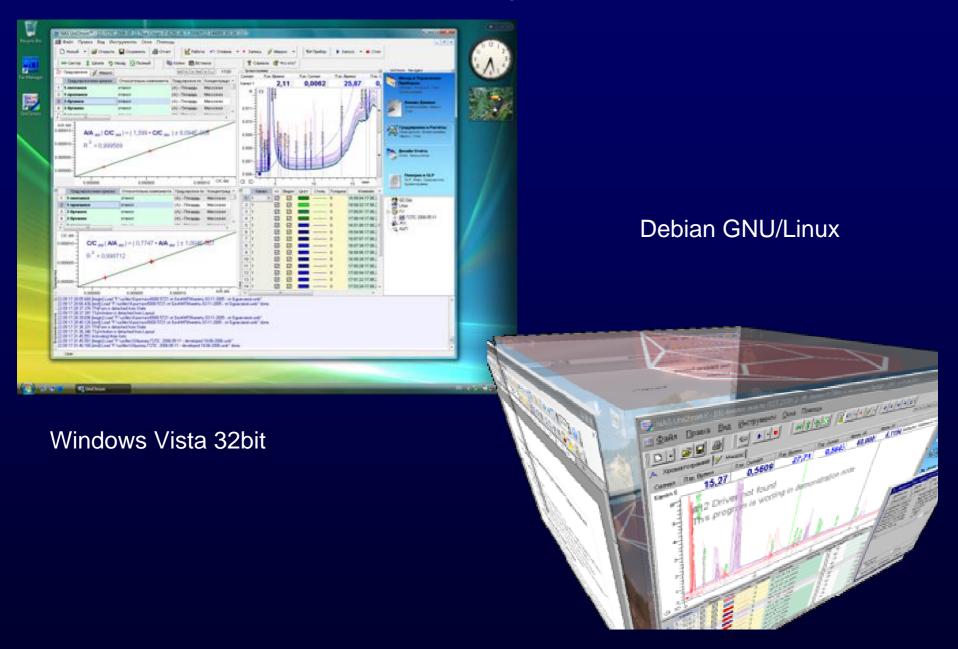
Day-and-night Unichrom is working in the following biggest petrochemical enterprises:

- JS "Novopolotsk Oil Refinery",
- JS "Mosyrskii Oil Refinery",
- JS "Lisichanskii Oil Refinery",
- JS "ArcelorMittal Kryviy Rih",
- JS "Mogilov HIMVOLOKNO",
- JS "Grodno Azot",
- JS "Nevynnomuskii Azot",
- JS "Schekino Azot",
- JS "Cherkaskii Azot",
- JS "Severodonetskii Azot",
- JS "Polimir»,
- FSI "Siberian Chemical Enterprise" (Russia) and Busher NC (Iran).



Download Center is opened Day-and-Night

Unified stile for different operation systems



Results:

Certification in Belarus, Russia and Ukraine

Day-and-Night service at the biggest petrochemical enterprises: JS "Novopolotsk Oil Refinery", J "Mosyrskii Oil Refinery", JS "Lisichanskii Oil Refinery", JS "ArcelorMittal Kryviy Rih", JS "Mogilov HIMVOLOKNO", JS "Grodno Azot", JS "Nevynnomuskii Azot", JS "Shchekino Azot", JS "Severodonetskii Azot", JS "Polimir", Federal State Int "Siberian Chemical Enterprise" (Russia) and Busher NC (Iran).

More than 1 million alcohol in blood analysis (very social important) have been done using Unichrom in Belarus and in the city of <u>Moscow</u>.

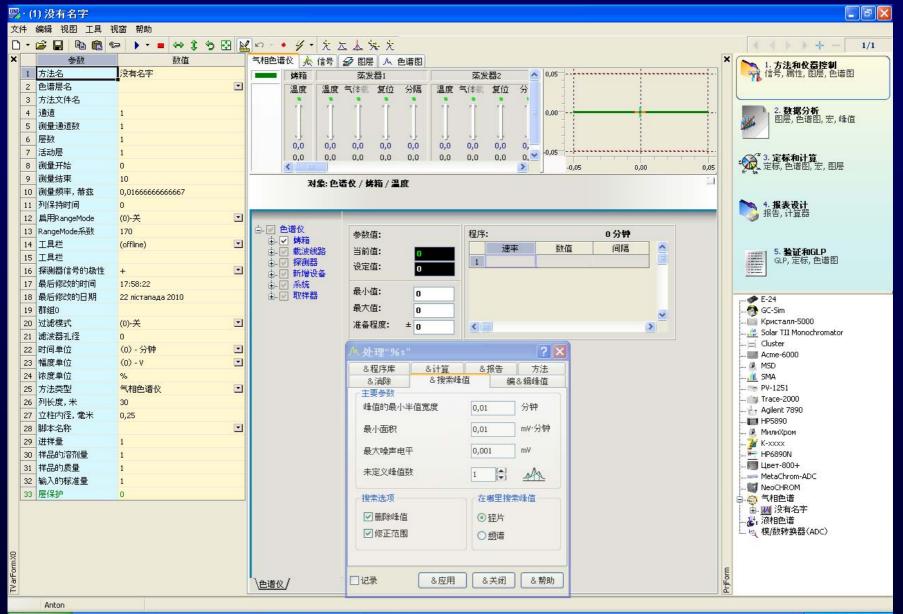
There is <u>Device</u> <u>Development</u> <u>K</u>it (DDK) on the site <u>www.unichrom.com</u>. So independent researches can develop drivers for new analytical devices independently.

Software package UniChrom is proposed for High Schools on free charge basis.

<u>Plans:</u>

To expand park of new analytical devices under control of Unichrom. Total support of modern multidimensional detectors (UV/Vis DAD, GC/MS, GC x GC) To supply modern Laboratory Information Management Systems (LIMS) with genetic plane texts E-Lab

Installation with local market language: Chinese or Korean



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Installation with local market language: Chinese or Korean

