

VISTACHROM 1.4.7

Chromatotec[®]



OUTLINE

- Organisation of VistaCHROM 1.4.7.
- Synoptic of the analyzer
- Method Manager
- Setup the GC
- Soft configuration
- Peak Viewer
- Unit Manager
- ServiceGC



ORGANISATION OF VISTACHROM



CHROMATOTEC GROUP ORGANISATION OF VISTACHROM





SYNOPTIC OF THE ANALYZER





SYNOPTIC OF THE ANALYZER (VOC ANALYZERS)





SYNOPTIC OF THE ANALYZER (MEDORS ANALYZERS)





- Allow you to see, create or modify:
 - Sequences
 - Methods
 - Substances tables



Choose your working sequence

8 @ 8 @	1 8 1 F 1					
Sequences	Sequence	4	AMBIANT (Seque	ence for VOC instr	ument ty	ире)
Methods	Sequence Informations	Met	hods List			
		#	Methods	Repetition		
	Name :	1	CAL212-6	1		
	AMBIANT	2	√212-600	4		
		3				V Cyclic
	Author :	4				
	Chromato-Sud	5				
		6				⊉ i Insert
	Analyzer Type :	7				
	VOC 💌	8				
		9				1
		10				T Hemove
		laa.	1		• 1	
				0	14	

Sequence « AMBIANT » is composed by one CAL212-6 method and four V212-600 methods. This is a cycling sequence.

• You can modify the sequences: adding or removing methods



• You can modify the sequences: adding or removing methods which already exist.

	Metho	ds List		
	#	Methods	Repetition	
	1	CAL212-6	2	
	2	V212-600	6	
	3	CAL212-6	1	🔽 Cyclic
	4	V212-600	4	
	5			
	6			≓ : Insert
	7			••
	8			
	9			
	10			T Remove
	4 4			1
		LAL212-6	2 1/4	J
L				

- 1 Double click to choose a method
- 2 Choose the number of methods
- 3 Click on "INSERT" to validate

Ouvrir		? 🔀
Regarder dans :	🎦 Program 💽 🗲 🛍 📅	
Htt. AMBIANT CAL212-4 Htt. CAL212-6 Htt. CALIB212 CLEAN Htt. CLEAN	His REPEAT His V212-000 His V212-240 His V212-600	
Nom <u>d</u> u fichier : Fichiers de <u>typ</u> e :	CAL212-6 Concept or Method Files (*.Mth ; *.Cpt)	<u>O</u> uvrir Annuler

4 – Save the sequence: File Save As...







SAMP-1-3 (Method f	or VC	IC instrument type)								
General Information Program Oven Program Relay Program	Press	ure Program Time Graph			Tin	ne retentio	n	Funct	tion use	d for results
Cycle Duration 1800 🔀 s Synchronisation	n 60	* 4 s								
Sampling Delay 0 🛐 s Duration 178	* ⁄4 s	Relay 0: No relay	▼ Volur	ne Little 💌		ndow	Dochonco	facto	rc	
Desorption Delay 180 🔀 s Duration 5	*	\$				Г	vesponse	Tacio		
Cooling Stop at 0 1/4 + 5 s before desorp	Hit	dit substances table								
Injection Start at 105 🛣 + 5 s after description	Т		+1 11	RT RT-R						
	Sul	ostances table information	12 12		7 -		/			
		Substances table name	C#248	4	thor CHROMATO	-SUD				
Move Sample Lube Delay 179 s Stop at 1621	Fo	r the analyzer serial number #24	481000	Analyzer t	ype none	• /				
Detector Amplification 3-High						Substances				
Integration Slope 5 🏒 Signal unit/s Min A	#	Name	BT Min	T Max	Select Peak	GC Result formula	With X=	^	Calibratit h curv	/e
Substances Table BOUCLE-3	1	ETHANE	6	16	Max	1,05 * X	Area/BS		Linear	•
	2	ETHYLENE	26	36	Max	0,96 * X	Area/BS		Factor *X	
	3	PROPANE	61	71	Max	1,05 * X	Area/BS		With X = [Area +	+ AreaOfs) / BS
	4	PROPENE	160	170	Max	0,96 *×	Area/BS		Nama	Make
	5	I-BUTANE	198	208	Max	×	Area/BS			
	6	N-BUTANE	216	226	Max	×	Area/BS		Factor	1,05
	7	ACETYLENE	259	269	Max	0,9 * X	Area/BS		AreaUrs	0
	8	TRANS-2-BUTENE	331	341	Middle	0,96 * X	Area/BS			
	9	1-BUTENE	342	352	Middle	0,96 * X	Area/BS			
	10	CIS-2-BUTENE	371	381	Max	0,96 * X	Area/BS			
	11	I-PENTANE	392	402	Max	X	Area/BS			
	12	N-PENTANE	409	419	Max	X	Area/BS			
	13	1-3-BUTADIENE	453	463	Max	0,98 * X	Area/BS			
	14	TRANS-2-PENTENE	474	484	Middle	0,96 * X	Area/BS			
	15	1-PENTENE	500	510	Max	0,96 * X	Area/BS			
	16	CIS-2-PENTENE	515	525	Max	0,96 × X	Area/BS			
	17	N-HEXANE	572	582	Max	×	Area/BS			
	18	ISOPRENE	595	605	Max	×	Area/BS	~		





Function: $Y = A \times X^{P}$



METHOD MANAGER (CALIBRATION / AUTO-CALIBRATION SUBSTANCES TABLE)





SETUP THE GC

GC Configuration Editor ¥1.4.7 Beta 3
Information General Sampling Precolumn Column Detector
Analyzer Serial Number #2460707 Type BTX1000
Instrument sensitivity
Base Sensitivity : 4200.00 3 Base sensitivity
Comments
Location Saint Antoine
Owner Chromato-Sud
Setup file version Version 6 🜠 Release 1 🌠
Last update Date 16:40 02-02-2012
Super User access User name : SUPER USER

GC Configuration Editor ¥1.4.7 Beta 3	- I ×
Information General Sampling Precolumn Column Det	ector
Instrument mode	
Instrument in Semi-Master 💌 mode	
Baud rate Data transfert sp	eed
C 9600 © 19200 C 38400	
Protocol None Results in GC Unit/SamplingVol.	
Security heaters settings Maximum 200.0 ★ Heating time at maximum power 900.0 ★ s	
Super User access User name : SUPER USER	



regulators

09/01/2014

SETUP THE GC



Used in voc

from the col

Enabled

Manufacturer a

🗸 🗶 🙆 🛞 Information General Sampling Precolumn Column Detector Acquisition Temperature Pressure Setup temperature of detector Temperature 150,00 °C Calibration coefficients of temperature sensor (PT1000) C coeff. 39.35420 -42964,91016 D coeff. Temperature control coefficient Integral coeff. Proportional coeff. 9.99999 30,00000 User name : CHROMATOTEC Aanufacturer access

Temperature of the detector (or permeation oven for MEDORS analyzers)

A	🗸 🗙 🖸 🔒
General Sampling Precolumn Column Detector	Information Ge
e Pressure	Loop volume
essure on Shut Down	Volume 1,00
0 Raw value (0-250)	Use :
essure (PK) calibration parameters	Flow jet calibra
Offset 0,20230 Factor 1,15260	Normal flow jet:
pressure (PKV) calibration parameters	Large Bow jet:
Offset 0,00000 Factor 0,96930	Ambient pressu
sure controller parameters	
1010 mode only, to control the pressure regulator (PKV) umn pressure sensor(PK)	-Vacuum pressu
Proportional 0,05000 Integral 0,25000	
ccess User name : CHROMATOTEC	Manufacturer acces
	·





SOFT CONFIGURATION

	Soft Configuration	Soft Configuration	<u> </u>
	Global Files Errors Units Group	Global Files Errors Units Group	Euron list
	Files	General	Error list
Soft Configuration	Save .Chrom file:	Error hold time 10 1	Stop on Error Enabled
Global Files Errors Units Group			
At the end of analyze	Save .Trend files	Filter : Valid Errors	-Stop Errors
The and of analyze	Gave ASC files	101-A frame received with an incorrect	🗖 111-Frame error detected.
Wait second analyse.		107-Input buffer overflow.	112-Parity error detected.
Display results dialog	Naming type : Method+Sample Date 💌	108-Protocol Violation may be caused 1 109-Command with wrong parameters	113-Data transmitted to receiver could 114-During on-line mode, ring buffer for
		□ 110-Checksum error.	Internet of the second seco
Send results to main wind		□ 111-Frame error detected.	□ 123-Power fails during method process
Timeout on results : 150 🏹 % of cycle time	Default value	□ 112-Parity error detected. □ 113-Data transmitted to receiver could	□ 140-Standard factor parameter is equa
		□ 114-During on-line mode, ring buffer fc	□ 142-Standard sensitivity value is out of
At shutdown	Concentration : 0.00	□ 115-Ring buffer for chromatography da	143-Standard sensitivity means is out c
Immediate stop GC	Area: 00 1	123-Power fails during method process 140-Standard factor parameter is equal	224-Temperature sensor of the oven fa
		141-Standard sampling volume is equal	231-Column pressure is below 50 hPa.
L	Retention Time : 0.00 🏒	✓ 142-Standard sensitivity value is out of 148 Standard sensitivity value is out of	241-During concept processing a call fi
	Volume : 0.00	■ 143-Standard sensitivity means is out (146-Overflow of the on-line command to a	242-Oven temperature is greater than 250-The temporary licence has expired
		7.994 Temperature sensor of the oven f	
C-0 C 0			
Clobal Files France Units Crown	Cancel		
Units	of results	Cancer	
	Soft Config	juration	×
	Global	Files Errors Units Group	
	Group	os : Substances :	
Unit type Eactory unit Display and	Name	e Method Unit Substance	Factor
	RSH	453-SPL mg/m ^a S METHYL-SH	1
Results mg/m3		ETHYL-SH	1
		ISO-PROPYL-	-SH 1
Temperature Celcius (°C) 💽 Celcius (°C		JBM	1
	In anie of	N-PROPYL-S	H 1
Pressure hecto-Pascal (hP 🔹 hecto-Pas	the group	2-BUTYL-SH	1
		Composition of the	group
		composition of the	group
GC unit (mg/m ³ for sample			
loops and ng for traps)	<u></u>	±i ‡i	±i
	Nam	ne RSH Substance 2	-BUTYL-SH
🗙 Cancel 🛛 🗸 OK	htat	hod (153-SPI	
	Mel	Factor :	1.000 🚺
	L	Init mg/mª S	
09/01/2014			101
JJ/ J/ 201 1		X Cancel	✓ UK 16



PEAK VIEWER





PEAK VIEWER

• Trend function (follow a parameter during the time)





PEAK VIEWER

- Post process function
- 1) Select chromatograms you want to reprocess
- 2) Select Post process tab
- 3) Select the substances table
- 4) Select the unit of your BS (ng for trap or mg/m³ for loop) and of your results
- 5) Create ASCII files
- 6) Give a BS value
- 7) Retreatment functions
- 8) Click on Start Process
- 9) Select Chromato tab and click on « Recalc » to see the chromatogram post calculated.





UNIT MANAGER

• D:Application/Vistachrom/UnitManager

Units [MolecularWeight] Molar volume [24.04] dm ³ at [20] 💌	C°	
Molecular Mass Molecular name 11112TetraCL-ETHAN Molecular mass 167.85 g fiel	 1112TetraCL-ETHAN 111-TriCL-ETHANE 1122TetraCL-ETHAN 112-TriCL-ETHANE 1-1DICHLOROETHANE 1-1DICHLOROETHANE 1-1DICL-PROPENE 123-TriCL-BENZENE 123-TriCL-PROPANE 124-TriCL-BENZENE 120IBR-3CL-PROPAN 1-2DIBR-MOETHANE 1-2DICHLOROETHANE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-BENZENE 1-2DICL-PROPANE 1-3-BUTADIENE 1-3DIBB-3CL-PROPAN 	* III



SERVICE GC

• D:Application/Vistachrom/ServiceGC







Thank you for your attention !