



# Covestro NV Centraal laboratorium

# NuGenesis SDMS Version 8.0.0.21 SR-2

W Bogaerts, A Verbueken KVCV 26 november 2015 Grobbendonk

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# **NuGenesis SDMS**

- opbouw
- rapportering
- archivering
- visualisatie









# Rapportering

Printen vanuit een toestel gebeurt via een geïnstalleerde NG printer (UNIFY).

Deze UNIFY-printer is in staat om inhoud van een rapport op te halen en dit in zoekvelden in te vullen (om later eenvoudig rapporten terug te vinden). Ook wordt "vaste" informatie van het rapport meegegeven (filenaam – filepath – datum – PC identificatie -....).

Per rapport-layout wordt een template ontworpen om info uit het rapport te halen en in de zoekvelden in te vullen (batch mode = automatisch).

Is het niet mogelijk om info uit een rapport te halen (niet lokaliseerbaar, geen eenduidige info beschikbaar, ..), dan kan dit manueel ingevuld worden (manual mode).

Voorbeeld van UNIFY-printer setup op een toestel PC



NuGenesis UNIFY Setup - NuGenesis UNIFY 8.0
UNIFY Options Project Batch Settings Font Replacements
Mode     Manual     About UNIFY
Show Tag Dialog Before Processing
Additional Printer:
(None)
Default Tags to Previous Values     Batch     Use Notification
Additional Printer
(None)
Error Handling:       Image: With the seconds         Image: With the seconds   Seconds
Paper Size:
Orientation           Orientation           A           Orientation           C           Landscape
Minimum Available Disk Space       Transport Engine Temp. Folder       500       KB       Print Spooler Folder       500
OK Annuleren

Voorbeeld van NG-printer setup op een toestel PC (vervolg)



Browse
• Browse
with Project
cemplate selection
250
<b>_</b>
<u>•</u>
*
<u></u>

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## Voorbeeld van template builder voor ICP-rapport

-	Home Extract	Options					
	🔚 Save 🥂 🖸 R Save As 🧖 S Template	Description 🔁 Lo Set Type 🚑 P R	oad Details rint leport	← → 1 of 5 Page	Page wi	idth 💽	Layout •
	Name	Description	2		Results		
	Toestel	Derived from	n Template N	lame (value opti	or ICP Vist	ta AX	
	Data Fenalsm	Left of mark	er All Gata R	leport (not requ		0317-kt	
44	Acquisitiedatum	Right of mar	rker "All Data	Report" (not red	qu 17/03/2	2011, 12:19:00	5
	Operator	Left of mark	er "All Data R	leport" (not requ	uir -K1		
					1.191		
	V-20110317-KL	All Data Report 1	7/03/2011	12 19 06			
	V-20110317-KL Label	All Data Report 1 Sol'n Conc.	7/03/2011 Units	12:19:06 SD	%RSD	Int. (c/s) (	Calc Conc.
	<mark>X-20110317-KL Label</mark> Fe 239.563	All Data Report 1 Sol'n Conc. 0.000600	7/03/2011. Units mg/L	12:19:06 SD 0.000773	% <b>R SD</b> 128.9	<b>Int. (c/s) (</b> 71.9051	Calc Conc. 0.000600 mg/L
	<mark>X-20110317-KL Label</mark> Fe 239.563 Fe 234.350	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv	7 <mark>/03/2011_</mark> Units mg/L mg/L	12.19.06 SD 0.000773 0.000372	<b>%R SD</b> 128.9 24.7	<b>Int. (c/s) (</b> 71.9051 111.588	C <b>alc Conc.</b> 0.000600 mg/L -0.001503 mg/L
	1220110317-KL Label Fe 239.563 Fe 234.350 Cu 223.009	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv -0.003382uv	7/03/2011 Units mg/L mg/L mg/L	12:19:06 SD 0.000773 0.000372 0.002055	<b>%R.SD</b> 128.9 24.7 60.8	Int. (c/s) ( 71.9051 111.588 45.8723	Calc Conc. 0.000600 mg/L -0.001503 mg/L -0.003382 mg/L
	Label Fe 239.563 Fe 234.350 Cu 223.009 Cu 213.598	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv -0.003382uv 0.000944	7/03/2011 Units mg/L mg/L mg/L mg/L	12:19:06 SD 0.000773 0.000372 0.002055 0.000991	%RSD 128.9 24.7 60.8 105.0	<b>Int. (c/s)</b> 71.9051 111.588 45.8723 44.0550	Calc Conc. 0.000600 mg/L -0.001503 mg/L -0.003382 mg/L 0.000944 mg/L
	Label Fe 239.563 Fe 234.350 Cu 223.009 Cu 213.598 Cu 224.700	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv -0.003382uv 0.000944 -0.003003uv	7/03/2011 Units mg/L mg/L mg/L mg/L mg/L	12:19:06 SD 0.000773 0.000372 0.002055 0.000991 0.001125	<b>% R.SD</b> 128.9 24.7 60.8 105.0 37.5	Int. (c/s) ( 71.9051 111.588 45.8723 44.0550 32.5622	Calc Conc. 0.000600 mg/L -0.001503 mg/L -0.003382 mg/L 0.000944 mg/L -0.003003 mg/L
	K-20110317-KL Label Fe 239.563 Fe 234.350 Cu 223.009 Cu 213.598 Cu 224.700 Cr 205.560	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv -0.003382uv 0.000944 -0.003003uv -0.001787uv	7/03/2011. mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.19.06 SD 0.000773 0.000372 0.002055 0.000991 0.001125 0.000199	%R.SD 128.9 24.7 60.8 105.0 37.5 11.2	<b>Int. (c/s)</b> ( 71.9051 111.588 45.8723 44.0550 32.5622 36.6493	Calc Conc. 0.000600 mg/L -0.001503 mg/L -0.003382 mg/L 0.000944 mg/L -0.003003 mg/L -0.001787 mg/L
	K-20110317-KL Label Fe 239.563 Fe 234.350 Cu 223.009 Cu 213.598 Cu 224.700 Cr 205.560 MQW (Samp)	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv -0.003382uv 0.000944 -0.003003uv -0.001787uv 1	7/03/2011. mg/L mg/L mg/L mg/L mg/L mg/L mg/L 3/03/2011, 1	12:19:06 SD 0.000773 0.000372 0.002055 0.000991 0.001125 0.000199 12:10:45	%R.SD 128.9 24.7 60.8 105.0 37.5 11.2 Tu	Int. (c/s) ( 71.9051 111.588 45.8723 44.0550 32.5622 36.6493 be 37	Calc Conc. 0.000600 mg/L -0.001503 mg/L -0.003382 mg/L 0.000944 mg/L -0.003003 mg/L -0.001787 mg/L
	V-20110317-KL Label Fe 239.563 Fe 234.350 Cu 223.009 Cu 213.598 Cu 224.700 Cr 205.560 MQW (Samp) Weight: 1	All Data Report 1 Sol'n Conc. 0.000600 -0.001503uv -0.003382uv 0.000944 -0.003003uv -0.001787uv 1	7/03/2011. mg/L mg/L mg/L mg/L mg/L mg/L 7/03/2011, 1 7/03/2011, 1	12:19:06 SD 0.000773 0.000372 0.002055 0.000991 0.001125 0.000199 12:10:45	%R.SD 128.9 24.7 60.8 105.0 37.5 11.2 Tu Dil	Int. (c/s) ( 71.9051 111.588 45.8723 44.0550 32.5622 36.6493 be 37 be 37	Calc Conc. 0.000600 mg/L -0.001503 mg/L -0.003382 mg/L 0.000944 mg/L -0.003003 mg/L -0.001787 mg/L



# Rapportering

Eens een rapport geprint, kunnen we dit raadplegen via NG-VISION (web-based interface).

Select I None						
	Date	Time	Acquisitiedatum	Operator	Data filenaam	Toestel
	2015-11-23	10:14:34	23/11/2015 10:14:33	-K1	V-20151123-K1	ICP Vista AX
	2015-11-19	13:42:07	19/11/2015, 13:42:04	-T1	V-20151119-T1	ICP Vista AX
□3	2015-11-19	09:45:28	19/11/2015, 09.45.26	-K1	V-20151119-K1	ICP Vista AX
4	2015-11-18	11:03:32	18/11/2015, 11:03:30	-K3	V-20151118-K3	ICP Vista AX
5	2015-11-18	09:37:17	18/11/2015, 09:37:16	-K2	V-20151118-K2	ICP Vista AX
6	2015-11-18	08:29:43	18/11/2015, 08:29:42	-K1	V-20151118-K1	ICP Vista AX
<b>7</b>	2015-11-12	12:22:48	12/11/2015, 12:22:43	-T1	V-20151112-T1	ICP Vista AX
8	2015-11-10	14:41:07	10/11/2015, 14:41:05	-K3	V-20151110-K3	ICP Vista AX
<b>□</b> 9	2015-11-10	12:40:40	10/11/2015, 12:40:38	-K2	V-20151110-K2	ICP Vista AX
10	2015-11-10	11:02:58	10/11/2015, 11:02:57	-K1	V-20151110-K1	ICP Vista AX
11	2015-11-09	09:48:35	09/11/2015, 09:48:34	-K1	V-20151109-K1	ICP Vista AX
12	2015-11-05	11:24:59	05/11/2015, 11:24:58	-K1	V-20151105-K1	ICP Vista AX
13	2015-11-05	07:10:36	05/11/2015, 07:10:17	-K3	V-20151104-K3	ICP Vista AX
14	2015-11-04	15:14:32	04/11/2015, 15:14:31	-K3	V-20151104-K3	ICP Vista AX
15	2015-11-04	13:06:30	04/11/2015, 13:06:29	-K2	V-20151104-K2	ICP Vista AX
16	2015-11-04	09:53:21	04/11/2015, 09:53:19	-K1	V-20151104-K1	ICP Vista AX
17	2015-11-04	09:52:21	04/11/2015, 09:52:19	-K1	V-20151104-K1	ICP Vista AX
18	2015-11-04	09:16:21	04/11/2015, 09:16:20	-T1	V-20151030-T1	ICP Vista AX

			? \?			
2015-11-19	42-04			Tim	e: 13:42:07	
filenaam: V-20151119-T1	0.42.04			Toe	stel: ICP Vista AX	
ine: BXA04296				ID: (	6601	
T GUID: 38700ECC-9884-4	44e1-8C26-A8A46C3	25370		Pag	e: 1 0T 4	
V-20151119-T1. A	All Data Report	19/11/2015, <sup>-</sup>	13:42:04			
Blank (Blk)		19/11/2015, 1	1.59:50	Rack	2, Tube 1	
Label	Sol'n Conc.	Units	SD(Int) %R	SD(Int)	Int. (c/s)	
Ca 317.933	0.000000	mg/L	27.916	3.3	835.917	
0			• • • • •			
Standard 1 (Std)		19/11/2015, 1	2:01:40	Rack	2, Tube 2	
Standard 1 (Std)		19/11/2015, 1	2:01:40	Rack	2, Tube 2	
Standard 1 (Std) Label	Sol'n Conc.	19/11/2015, 1 Units	2:01:40 SD(Int) %R	Rack SD(Int)	2, Tube 2 Int. (c/s)	
Standard 1 (Std) Label Ca 317.933	<b>Sol'n Conc.</b> 2.00000	<b>19/11/2015, 1</b> Units mg/L	2:01:40 <u>SD(Int) %R</u> 2214.348	<b>Rack</b> <u><b>SD(Int)</b></u> 2.1	<b>2, Tube 2</b> Int. (c/s) 103258	
Standard 1 (Std) Label Ca 317.933	<b>Sol'n Conc.</b> 2.00000	19/11/2015, 1 <u>Units</u> mg/L	<b>2:01:40</b> <b>SD(Int) %R</b> 2214.348	<b>Rack</b> <u><b>SD(Int)</b></u> 2.1	<b>2, Tube 2</b> Int. (c/s) 103258	
Standard 1 (Std) Label Ca 317.933	Sol'n Conc. 2.00000	19/11/2015, 1 Units mg/L	2:01:40 <u>SD(Int) %R</u> 2214.348	Rack SD(Int) 2.1	2, Tube 2 <u>Int. (c/s)</u> 103258	
Standard 1 (Std) Label Ca 317.933 Standard 2 (Std)	Sol'n Conc. 2.00000	19/11/2015, 1 <u>Units</u> mg/L 19/11/2015, 1	2:01:40 <u>SD(Int) %R</u> 2214.348 2:03:29	Rack <u>SD(Int)</u> 2.1 Rack	2, Tube 2 <u>Int. (c/s)</u> 103258 2, Tube 3	
Standard 1 (Std) Label Ca 317.933 Standard 2 (Std) Label	Sol'n Conc. 2.00000	19/11/2015, 1 <u>Units</u> mg/L 19/11/2015, 1 Units	2:01:40 <u>SD(Int) %R</u> 2214.348 2:03:29 SD(Int) %R	Rack <u>SD(Int)</u> 2.1 Rack SD(Int)	2, Tube 2 <u>Int. (c/s)</u> 103258 2, Tube 3 Int. (c/s)	

#### **Quantitative Analysis Sample Report**

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#### Quantitation Results

# Covestro NV - Centraal laboratorium : NUGENESIS V8.0 Rapportering GCMS MassHunter : vervolg



#### Quantitation Results

Compound	I STD	RT	Resp	I STD Resp	RR	Final Conc	
RCVRY naftaleen d8	p-Terfenyl D14	7.437	255719	506819	0.5046	102.0592	%
naftaleen	naftaleen D8	7.477	278141	255719	1.0877	396.5874	ng/l
acenaftyleen	naftaleen D8	10.509	293378	255719	1.1473	398.9208	ng/l
RCVRY acenafteen d10	p-Terfenyl D14	10.796	145600	506819	0.2873	102.4039	%
acenafteen	acenafteen D10	10.857	183720	145157	1.2657	399.0377	ng/l
fluoreen	acenafteen D10	11.887	200767	145157	1.3831	400.4138	ng/l
RCVRY fenantreen d10	p-Terfenyl D14	13.743	210177	506819	0.4147	98.3583	%
fenantreen	fenantreen D10	13.789	225824	210177	1.0744	400.5950	ng/l
antraceen	fenantreen D10	13.890	238353	210177	1.1341	402.7421	ng/l
fluorantheen	fenantreen D10	16.165	205743	210177	0.9789	404.7661	ng/l
pyreen	fenantreen D10	16.603	209019	210177	0.9945	404.8113	ng/l
benz(a)antraceen	Chryseen D12	19.021	168147	116517	1.4431	402.8525	ng/l
RCVRY chryseen d12	p-Terfenyl D14	19.036	116512	506819	0.2299	98.8428	%
chryseen	Chryseen D12	19.086	153050	116517	1.3135	407.5983	ng/l
SURROG 6-Methylchryseen	p-Terfenyl D14	19.976	77753	506819	0.1534	217.4134	ng/l
benzo(b)fluorantheen	Perylene D12	21.024	135346	35378	3.8257	400.5683	ng/l
benzo(k)fluorantheen	Perylene D12	21.074	153304	35378	4.3334	402.8610	ng/l
benzo(a)pyreen	Perylene D12	21.616	129604	35378	3.6634	400.3399	ng/l
RCVRY perylen d12	p-Terfenyl D14	21.724	35420	506819	0.0699	98.1519	%
indeno(1,2,3,c,d)pyreen	Benzo(g,h,i)peryleen D12	24.124	107293	88384	1.2139	395.0115	ng/l
dibenzo(a,h)anthraceen RCVRY benzo(a,h i)pervleen	Benzo(g,h,i)peryleen D12	24.221	113474	88384	1.2839	387.5577	ng/l
d12	p-Terfenyl D14	24.745	88384	506819	0.1744	96.1426	%
benzo(g,h,i)peryleen	Benzo(g,h,i)peryleen D12	24.821	112600	88384	1.2740	391.9527	ng/l

### **Quantitative Analysis Sample Report**

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#### **Compound Graphics**

#### acenaftyleen



#### RCVRY acenafteen d10



# Archivering



Het labo bewaart de ruwe data nu 5 jaar. Deze archivering wordt door NUGENESIS beheerd (prints en files).

Via een configurator ("template builder") kunnen we de data-, method-, sequence- en batch files (MassHunter) van toestellen archiveren volgens een vastgelegde frekwentie (= Archive Protocol). Ook de automatische clean-up van de files (= Delete Protocol) op de toestel PC's wordt hier vastgelegd.

Zoals bij een "print template" is het ook hier mogelijk om data van de file op te vragen en dit in zoekvelden op te slaan. Meta data bv. "filename, filepath, creation date,.." zijn als "vaste" gegevens beschikbaar. Alternatief kan info uit de inhoud van de file opgehaald worden ("vendor" afhankelijk).

Filerachivering door NG : volledige filea								
groep		toestel -	techniek					
AG1	L2850	SKALAR	FIA					
Totaa	al AG1							
AG2	L2598	DIONEX 500	IC					
AG2	L2599	Metrohm 1	IC					
AG2	L2601	Metrohm 2	IC					
Totaa	al AG2							
AG3	L2271	Zeeman Varian GTA120	GFAAS					
AG3	L801	ICP VISTA AX	ICP					
AG3	L802	ICP VISTA Pro	ICP					
Totaa	al AG3							
AG5	L1075	Thermo Separation Products	HPLC4					
AG5	L1076	LCQ Duo / Thermo Separation Products	HPLC_MS					
AG5	L1101	GC4 + FID + ECD	GC					
AG5	L1102	GC2 + FPD + TCD	GC					
AG5	L1111	GC6 + FID + TCD	GC					
AG5	L1121	GC1 + 2x FID	GC					
AG5	L1122	GC3 + 2x FID + Headspace	GC					
AG5	L1123	GC0 + 2 x FID	GC					
AG5	L1170	Polaris Q Interscience -Trace	GC_MS					
AG5	L1213	PERKIN ELMER Spectrum 100 SN82083	FTIR					
AG5	L1271	Spectra-Physics	HPLC1					
AG5	L1273	Thermo Separation Products	HPLC3					
AG5	L1300	MSD5973-GC6890	GC_MS					
AG5	L1302	MSD5975 inert	GC_MS					
AG5	L1411	Thermo Separation Products	HPLC7					
AG5	L1412	Thermo Separation Products	HPLC9					
AG5	L1413	Thermo Separation Products	HPLC8 (RID)					
AG5	L1414	Thermo Separation Products	HPLC10					
AG5	L1421	THERMO ELECTRON	HPLCAccela (UPLC)					
Totaa	al AG5							

Toestellen waarvan de relevante files gearchiveerd worden

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## Voorbeeld van NG-file capture template builder (per toestel een template)



Template <u>N</u>	ame: FC CLABO				Version: 4	Modified on	: 06 aug 2015 08:2	5:02		
Req. Proxy	Vendor	Product	Rev.	Scan F	<sup>v</sup> ath				Fi	le Pal Comment
1 No	NuGenesis Technologies (	Generic	0	) <mark>\\Bxa</mark> 0	15674\bxa0567	4_c\data			×:	×
2 No	NuGenesis Technologies (	Generic	0	) \\BxaO	/5674\bxa0567/	4_c\methods			×.:	x
3 No	NuGenesis Technologies (	Generic	0	) \\BxaO	/5674\bxa05674	4_c\Methods Massł	nunter		× :	×
4 No	NuGenesis Technologies (	Generic	0	) \\BxaO	5674\bxa05674	4_c\SEQUENCE		Г	Dath van da t	
5 No	Nutienesis Technologies U Nutienesis Technologies (	. Generic Conoria		J \\BxaU	5/42\bxaU5/42	2_U\data		Г	alli vali ue i	e
6 NO	nologies (	Generic		) \\Bxau	0742\DXaU0742	2_c\methods 2_c\Methods Messi	ounter	а	rchiveren file	es
	ninologies C	Generic			5742\bya05742	2_CAMEGIOUS MASSI 2_c\SEQUENCE		7	× :	×
ie pau		Generic		) \\Bxa0	15703\bxa0570	3 C\data				x
	nologies C	Generic		) \\Bxa0	J5703\bxa0570	3 c\methods		/	×.	x
	*ic		Advance		Y	 Other		] Tag I	Marker Mapping	
– Comma	ution/Activation	State	Adranoc			0000	$-\!/-$			
Execute	d 🔽	Deactivate Com	nand 🗔		(Non-Execut	able Commands are	ed by "*".)		Tag Label	Tag Marker
Adapte	neters					/		1	Unilab	
	Rem	ote DCOM Server: <	N/A>					2	Data Type	< Constant Value='DATA' >
г								$\boxed{3}$	Toestel	< Constant Value='MSD597
Vendor:	hesis Technologies Corp	p. <u>P</u> roduct:  G	eneric			- He on: U			Operator	
Adapter F		Language: <	N/A>			/				
<u> </u>	rameters								Sample	
	a05674\bya05674_c\dat							6	Methode	
Fam: p							<u>&gt;_</u>	7	Bedrijf	
Sub-Folder	scan: All 💽 Fo	lder Pattern: 👯						8	Datum	
File	<b>_</b>	Grouping: Mono			-		(	9	Original File Path	FILE PATH
Fattern		aroaping. Inone							Computer Name	< Constant Value=BXA056
Execution	on parameters		Archive	Bit				1 11	Application Software	
Source US:	WINDOWS	Beset	Archive F	Bir	First Run D	ate/Time 07/30/20	)15 16:14:43 💌	$\left\  \frac{1}{12} \right\ $		
Scan Frequ	iency : 2 Hours	- Do no	t Archive	if cannot				12		
		Reset	Archive E	Bit				13		
	Protocol	Delete Pro	ocol —					14		
Archive			_							



# Covestro NV - Centraal laboratorium : NUGENESIS V8.0 Archivering



Opvolging gearchiveerd geheugen:





# Visualisatie

Het weergeven van rapporten / file archivering verloopt via een web-based interface.

Verschillende mogelijkheden zijn voorzien om rapporten te vinden:

- Indeling in printprojecten met een "VIEW" per toestel met mogelijkheid tot "filteren"
- Zoeken naar rapporten in inhoud en/of in zoekvelden (tags)

Recently viewed		Project: A	AG3 View: Vista	AX				
🕶 All Available		Select						
MBEANTS0030		All None	Date	Timo	Acquisitiodatum	Operator	Data filonaam	vestro
AG1			Date	Time	Acquisitedatum	Operator	Data menaam	
				44.00.50				
			2015-11-23	14:38:52	23/11/2015, 14 88:51	K23	V-2( 1123-K23	
		2	2015-11-23	10:14:34	View per toes	tel	V-20 123-K1	
✓ AULE printfiles		3	2015-11-19	13:42:07			V-20 9-T1	
DefaultView		4	2015-11-19	09:45:28	19/11/2015, 09:45:26	-K1	Filterve	Iden
LAMBDA 900		5	2015-11-18	11:03:32	18/11/2015, 11:03:30	-K3	V-20151118-K3	_
SA 🖓		6	2015-11-18	09:37:17	18/11/2015, 09:37:16	-K2	V-20151118-K2	
Vista		7	2015-11-18	08:29:43	18/11/2015, 08:29:42	-K1	V-20151118-K1	
Vista AX		8 🗌	2015-11-12	12:22:48	12/11/2015, 12:22:43	-T1	V-20151112-T1	
Vista PRO		□ <u>9</u>	2015-11-10	14:41:07	10/11/2015, 14:41:05	-K3	V-20151110-КЗ	
AG3 ARCHIEF	2	10	2015-11-10	12:40:40	10/11/2015, 12:40:38	-K2	V-20151110-K2	
🔫 🤍 AG5		□ <u>11</u>	2015-11-10	11:02:58	10/11/2015 11:02:57	-K1	V-20151110-K1	
Alle GC_s				11.02.00	00/11/2015 00:49:24	-K1	V-20151100-K1	
Alle HPLC_s		Printp	roiecten	5	09/11/2015, 09:46:54	-K1	V-20131109-K1	
Alle MSD_s		T	-,	9	05/11/2015, 11:24:58	-K1	V-20151105-K1	
Archief		14	2015-11-05	07:10:36	05/11/2015, 07:10:17	-K3	V-20151104-K3	
DefaultView		15	2015-11-04	15:14:32	04/11/2015, 15:14:31	-K3	V-20151104-K3	_
SC00		16	2015-11-04	13:06:30	04/11/2015, 13:06:29	-K2	V-20151104-K2	
SC01		17	2015-11-04	09:53:21	04/11/2015, 09:53:19	-K1	V-20151104-K1	
✓ GC02		18	2015-11-04	09:52:21	04/11/2015, 09:52:19	-К1	V-20151104-K1	
GC03		19	2015-11-04	09:16:21	04/11/2015, 09:16:20	-T1	V-20151030-T1	-
GC04		20	2015-11-04	09:16:06			_	
GC05		21	2015-11-03	14:47:15	03/11/2015, 14:47:14	-K2	V-20151103-K2	
GC07		22	2015-11-03	09:04:01	03/11/2015_09:04:00	-K1	V-20151103-K1	
⊂ GC08			2015-10-30	15:32:46	30/10/2015 15:33:37	-T1	V-20151030-T1	
GPC PSS			2015-10-37	15:11:55	50/10/2013, 13:53:57	11	v 20131030-11	
<sup>©</sup> GPC10			2015-10-27	15:11:55				
IR Perkin Elmer		□ 25	2015-10-27	15:11:15				
<sup>↓</sup> LCQ			More					
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# Visualisatie



Zoeken naar rapporten in inhoud en/of in zoekvelden (tags) met ADVANCED SEARCH

# Visualisatie

Zoeken naar rapporten met "385664" in het rapport

V-20151119-T1. All Data Report 19/11/2015, 13:42:04

	385664 (Samp)		19/11/2015, 12	2:15:44	Ra	ick 1, Tube s	5
	Weight: 0.649		Volume: 50		Di	lution: 1	
	Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.
	Ca <u>317.933</u>	1.18326	mg/L	0.003253	0.3	61569.8	91.1599 mg/L
	385664' (Samp)		19/11/2015, 12	2:29:55	Ra	i	
	Weight: 0.5969		Volume: 50		Dil	ution: 1	
	Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	Calc Conc.
	Ca 317.933	0.590081	mg/L	0.002264	0.4	31034.2	49.4288 mg/L
(	385664+ (Samp) Weight: 0.649		19/11/2015, 12 Volume: 50	::31:45	Ra Dil		
	I shel	Sol'n Conc	Units	SD	%RSD	Int (c/s) (	Sale Cone
	Ca 317 933	3 29467	mg/L	0.068973	2.1	170262	253 827 mg/L
	04011000	2.27107		0.000715	2.1	1,0202	2001027 mg/L



# Bedankt voor uw aandacht

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