Guide de fonctionnement de l'analyseur CNS VARIO EL Cube ELEMENTAR

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GUIDE DE FONCTIONNEMENT VARIO EL Cube ELEMENTAR

E.lecloux

Guide fonctionnement VarioEL-cube

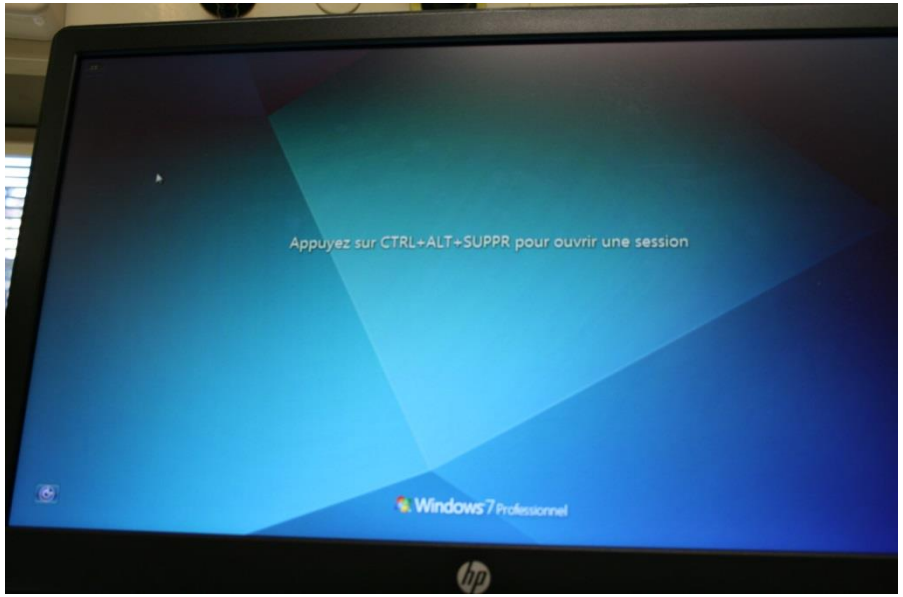
-Ne jamais arrêter l’appareil

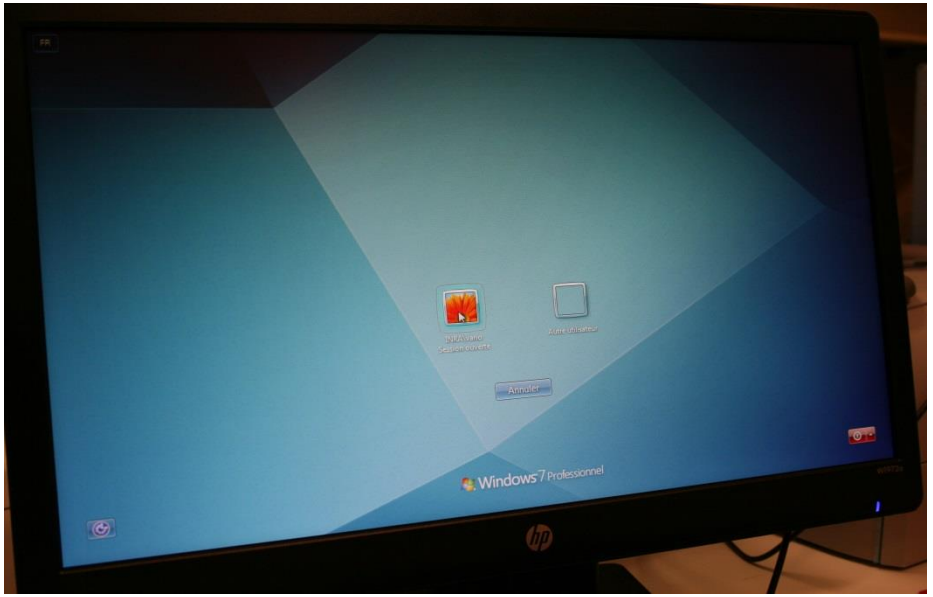
-Ne jamais arrêter l’ordinateur

-Ne jamais fermer le programme

-Sauvegarder le fichier en fin d’analyse

Ouverture de la session machine

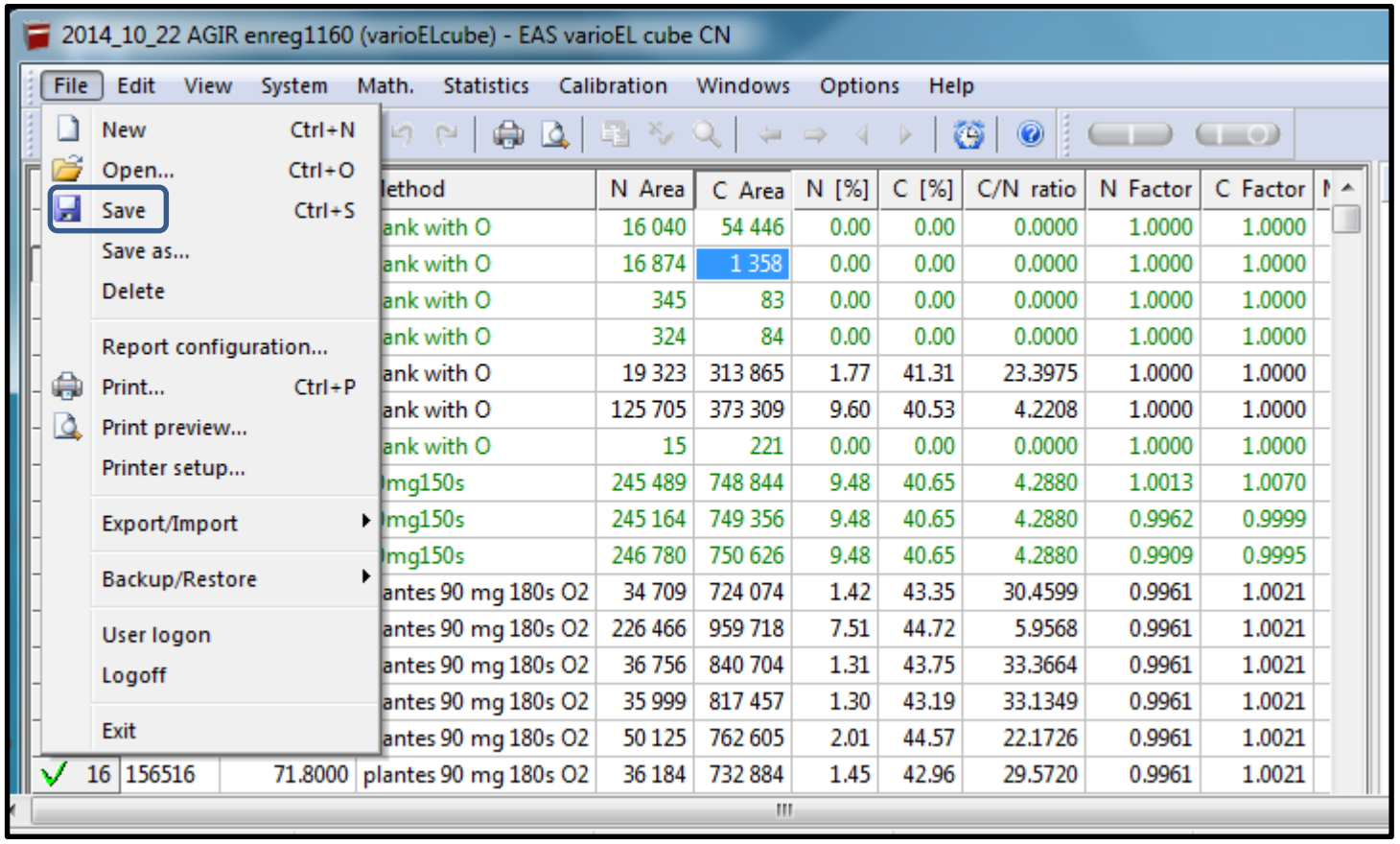




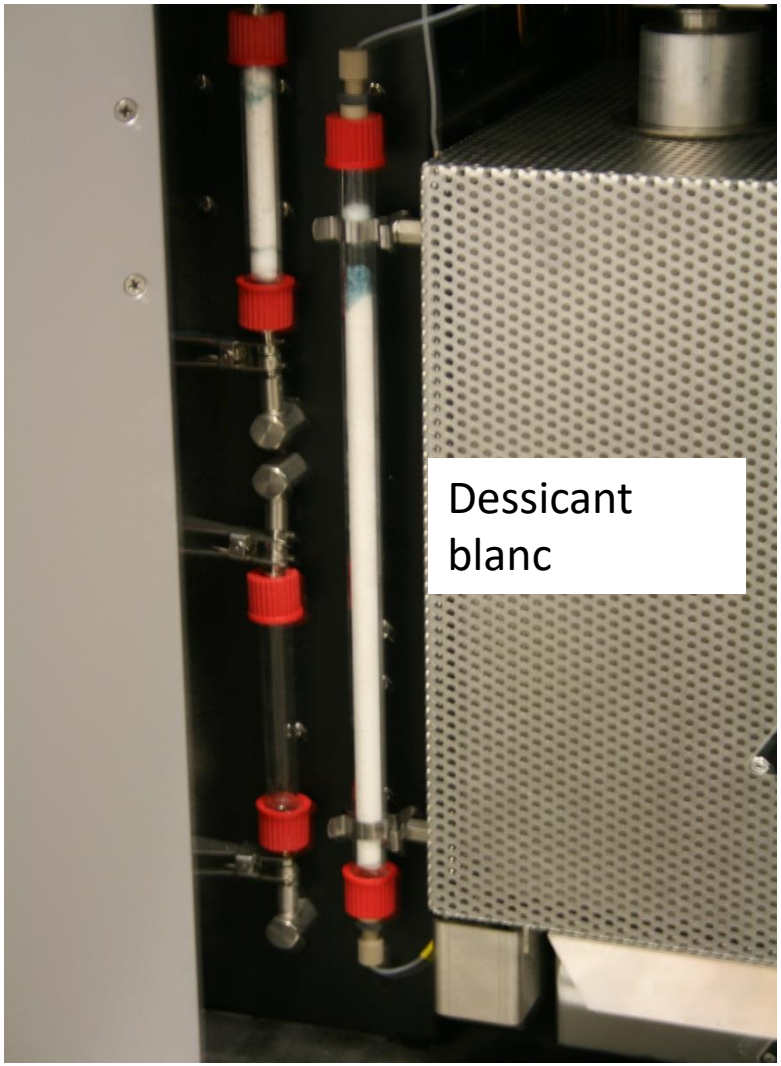
Identification

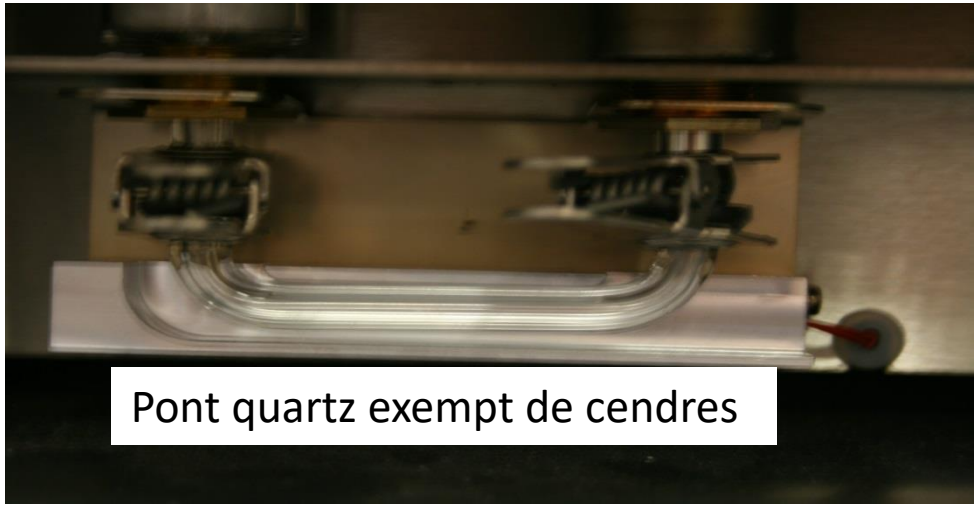
Analyse12*

Sauvegarde de la session précédente



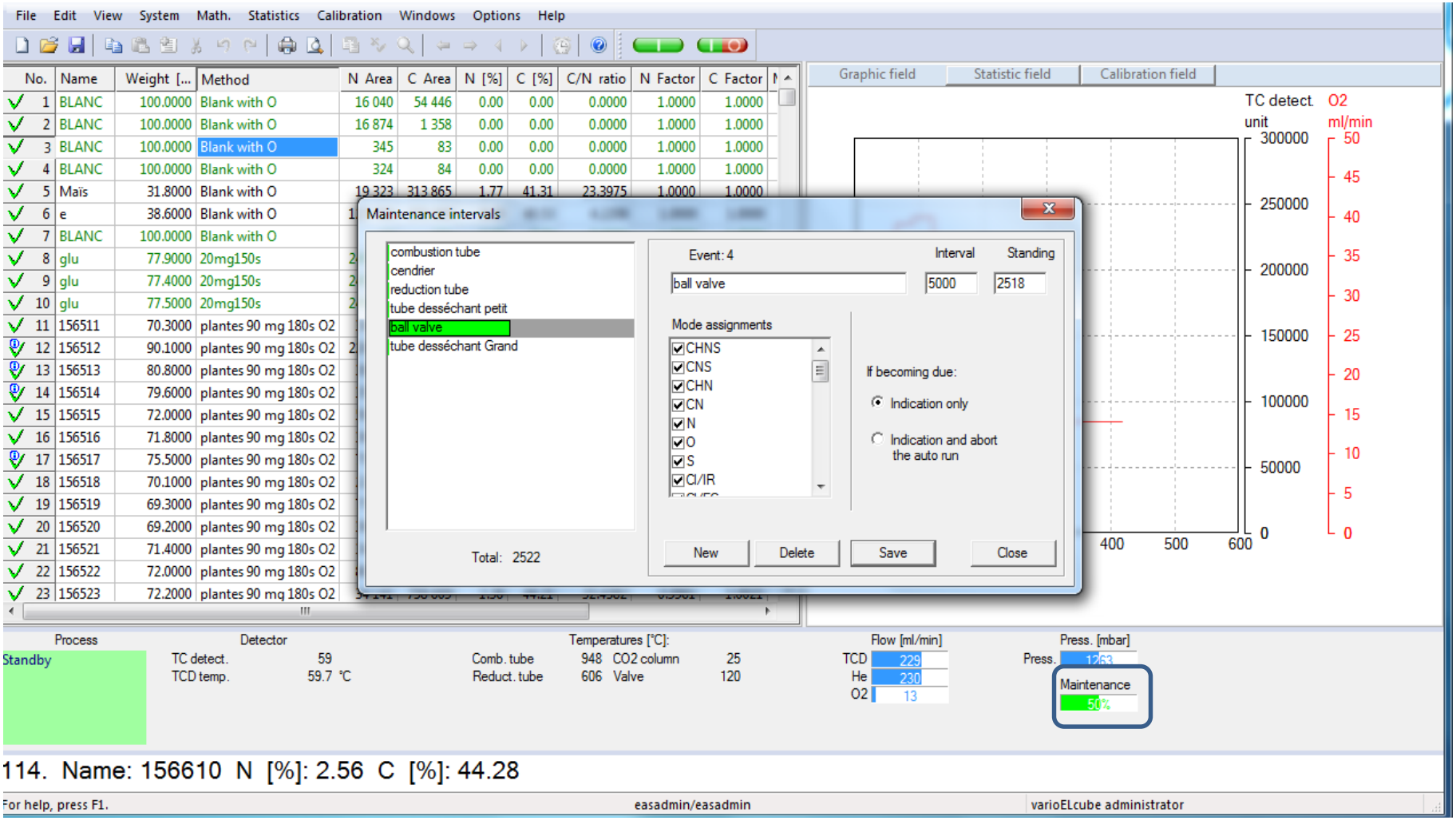
Vérification de l'état de l'appareil



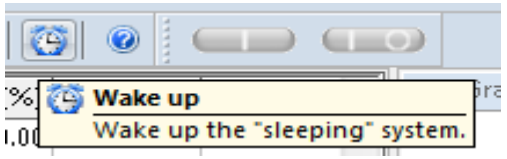


Vérification de l'état de l'appareil

cliquer sur maintenance (cf. guide de maintenance)



Mise sous pression Feeding ou



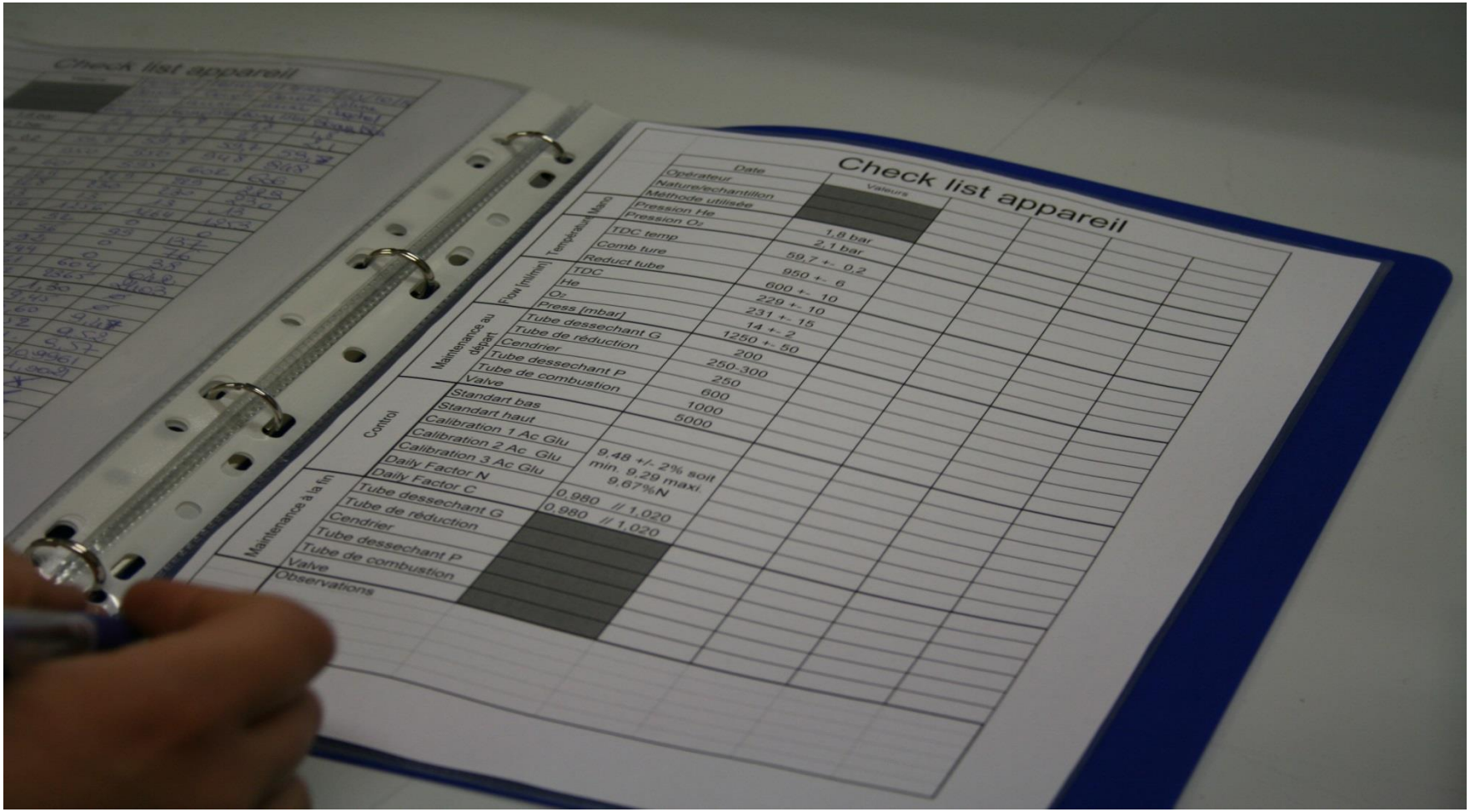
2014_10_22 AGIR enreg1160 (varioELcube) - EAS varioEL cube CN

File Edit View System Math. Statistics Calibration Windows Options Help

Auto run
Single run
Stop
Auto zero
Wake up
Feeding...
Carousel position
Mode...

No.	Name			N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
1	BLANC			16 040	54 446	0.00	0.00	0.0000	1.0000	1.0000
2	BLANC			16 874	1 358	0.00	0.00	0.0000	1.0000	1.0000
3	BLANC			345	83	0.00	0.00	0.0000	1.0000	1.0000
4	BLANC			324	84	0.00	0.00	0.0000	1.0000	1.0000
5	Maïs			19 323	313 865	1.77	41.31	23.3975	1.0000	1.0000
6	e			125 705	373 309	9.60	40.53	4.2208	1.0000	1.0000
7	BLANC			15	221	0.00	0.00	0.0000	1.0000	1.0000
8	glu			245 489	748 844	9.48	40.65	4.2880	1.0013	1.0070
9	glu	77.4000	20mg150s	245 164	749 356	9.48	40.65	4.2880	0.9962	0.9999
10	glu	77.5000	20mg150s	246 780	750 626	9.48	40.65	4.2880	0.9909	0.9995
11	156511	70.3000	plantes 90 mg 180s O2	34 709	724 074	1.42	43.35	30.4599	0.9961	1.0021
12	156512	90.1000	plantes 90 mg 180s O2	226 466	959 718	7.51	44.72	5.9568	0.9961	1.0021
13	156513	80.8000	plantes 90 mg 180s O2	36 756	840 704	1.31	43.75	33.3664	0.9961	1.0021
14	156514	79.6000	plantes 90 mg 180s O2	35 999	817 457	1.30	43.19	33.1349	0.9961	1.0021
15	156515	72.0000	plantes 90 mg 180s O2	50 125	762 605	2.01	44.57	22.1726	0.9961	1.0021
16	156516	71.8000	plantes 90 mg 180s O2	36 184	732 884	1.45	42.96	29.5720	0.9961	1.0021

Remplir la feuille de contrôle



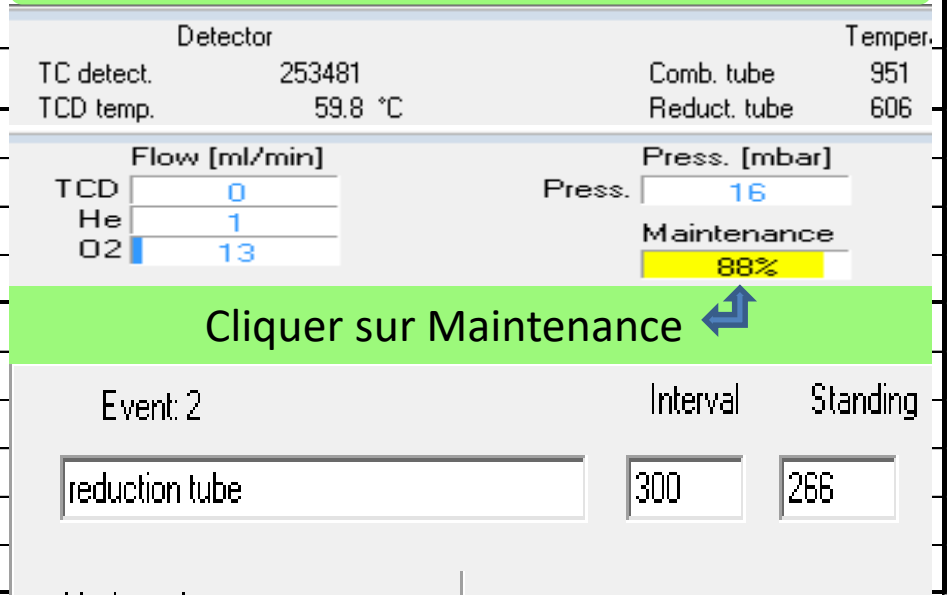
Check List appareil avant le début des analyses

Check list appareil

	Date	Valeurs
	Opérateur	
	Nature/echantillon	
	Méthode utilisée	
Mano	Pression He	1,8 bar
	Pression O_2	2,1 bar
Température	TDC temp	59,7 +- 0,2
	Comb ture	950 +- 6
	Reduct tube	600 +- 10
Flow [ml/min]	TDC	229 +- 10
	He	231 +- 15
	O_2	14 +- 2
	Press [mbar]	1250 +- 50
Maintenance au départ	Tube dessechant G	200
	Tube de réduction	250-300
	Cendrier	250
	Tube dessechant P	600
	Tube de combustion	1000
	Valve	5000

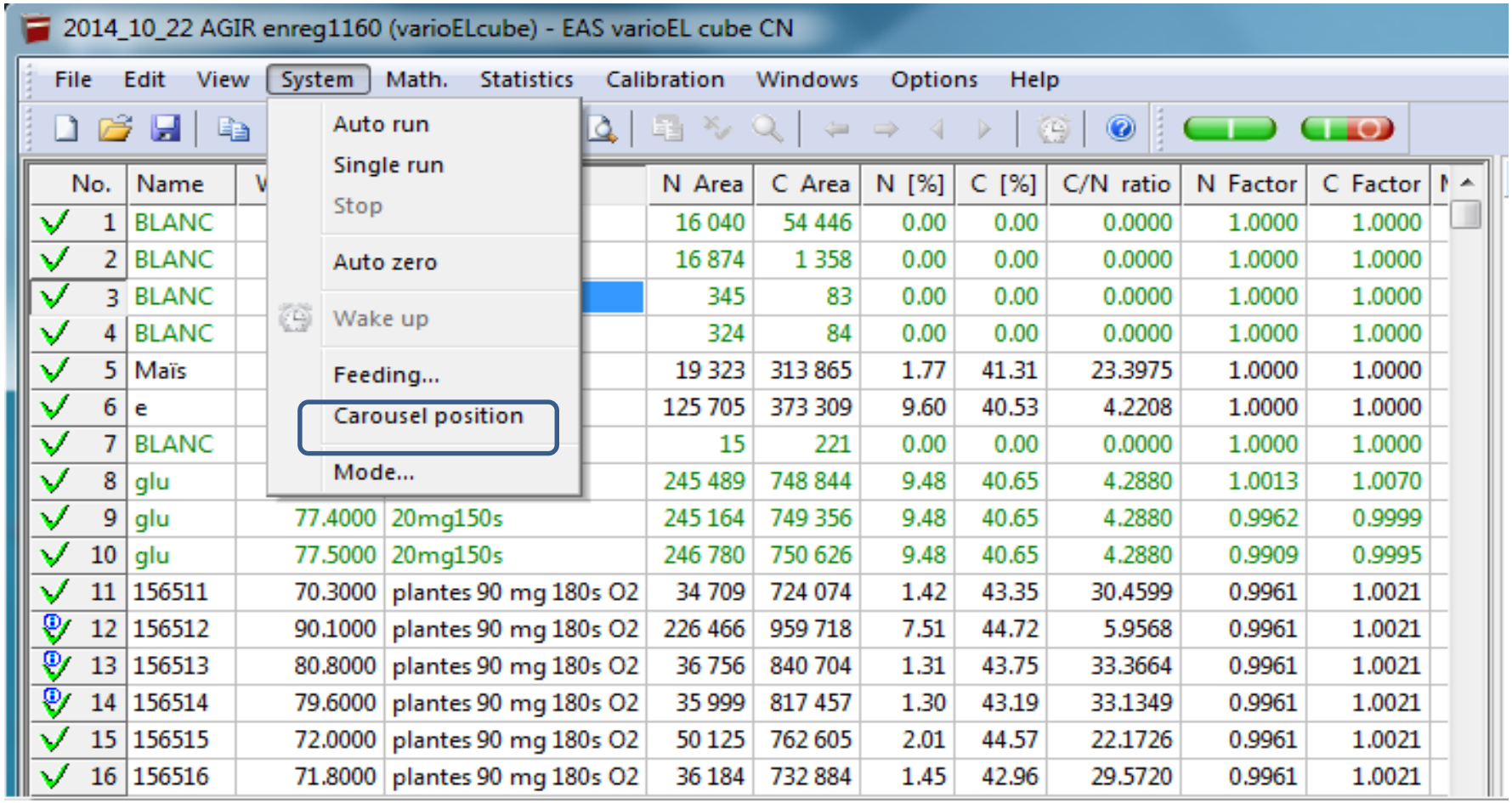
Manomètres mural au dessus de l'analyseur

Valeurs analyseur

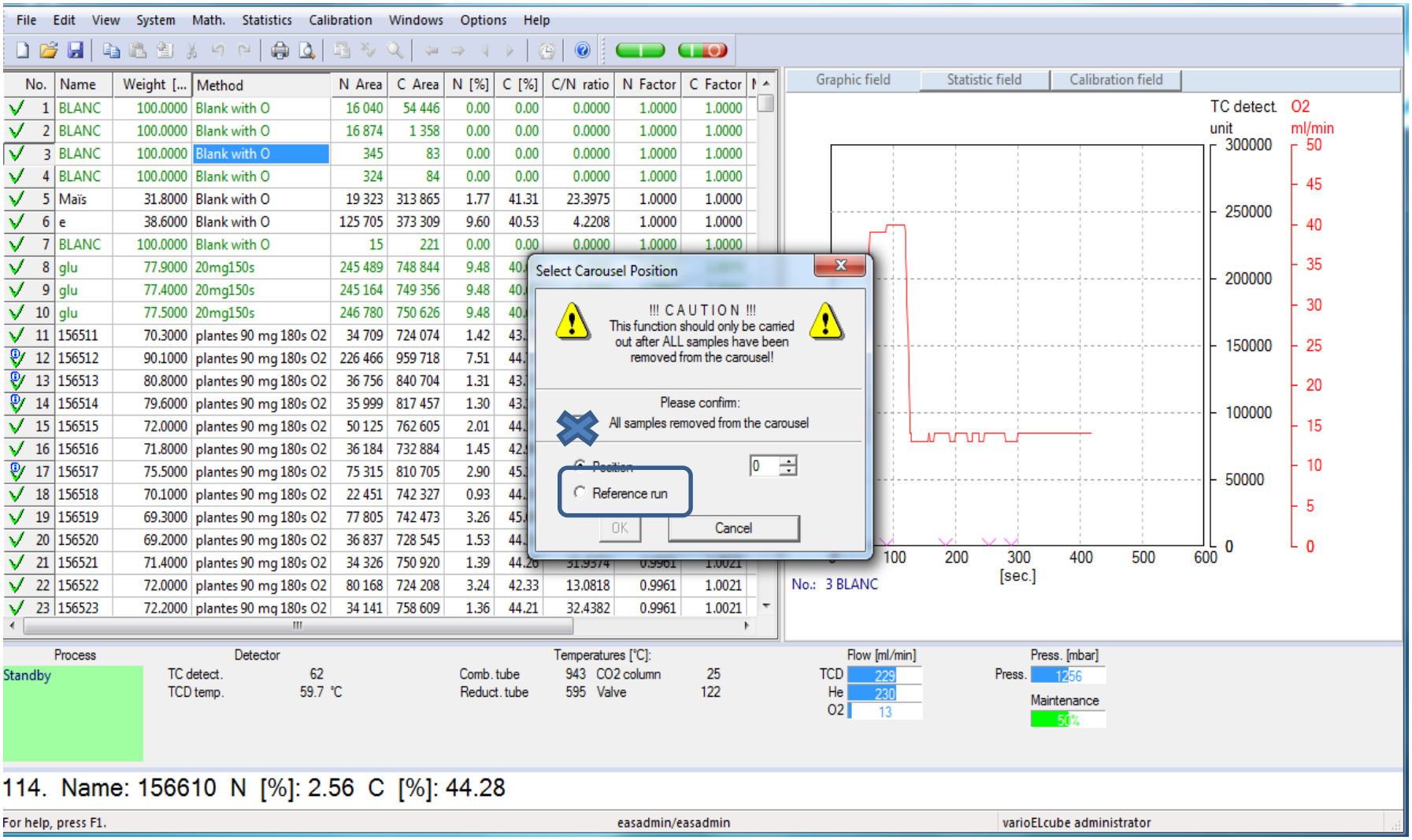


Cliquer sur Maintenance

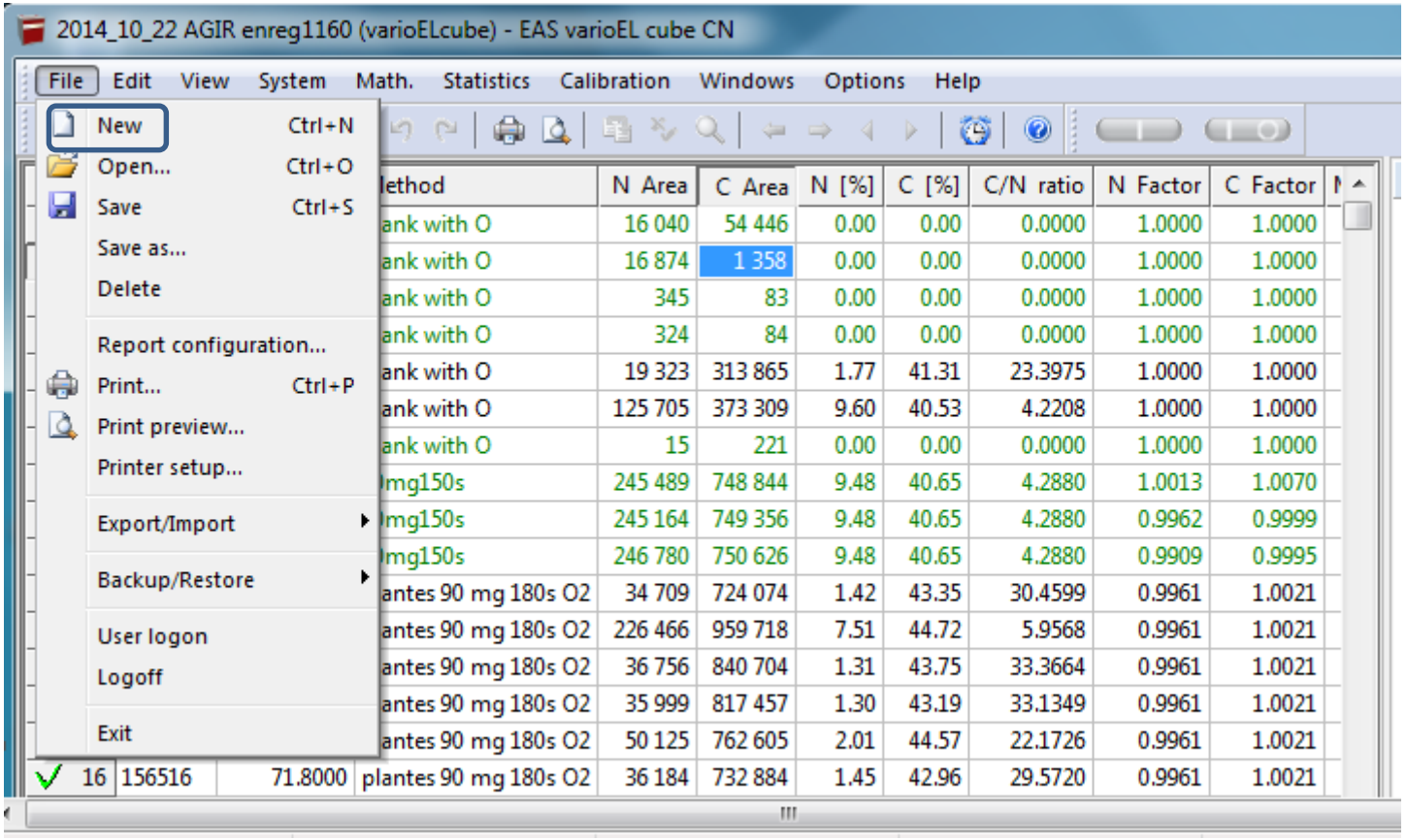
Positionnement du caroussel



Positionnement du caroussel

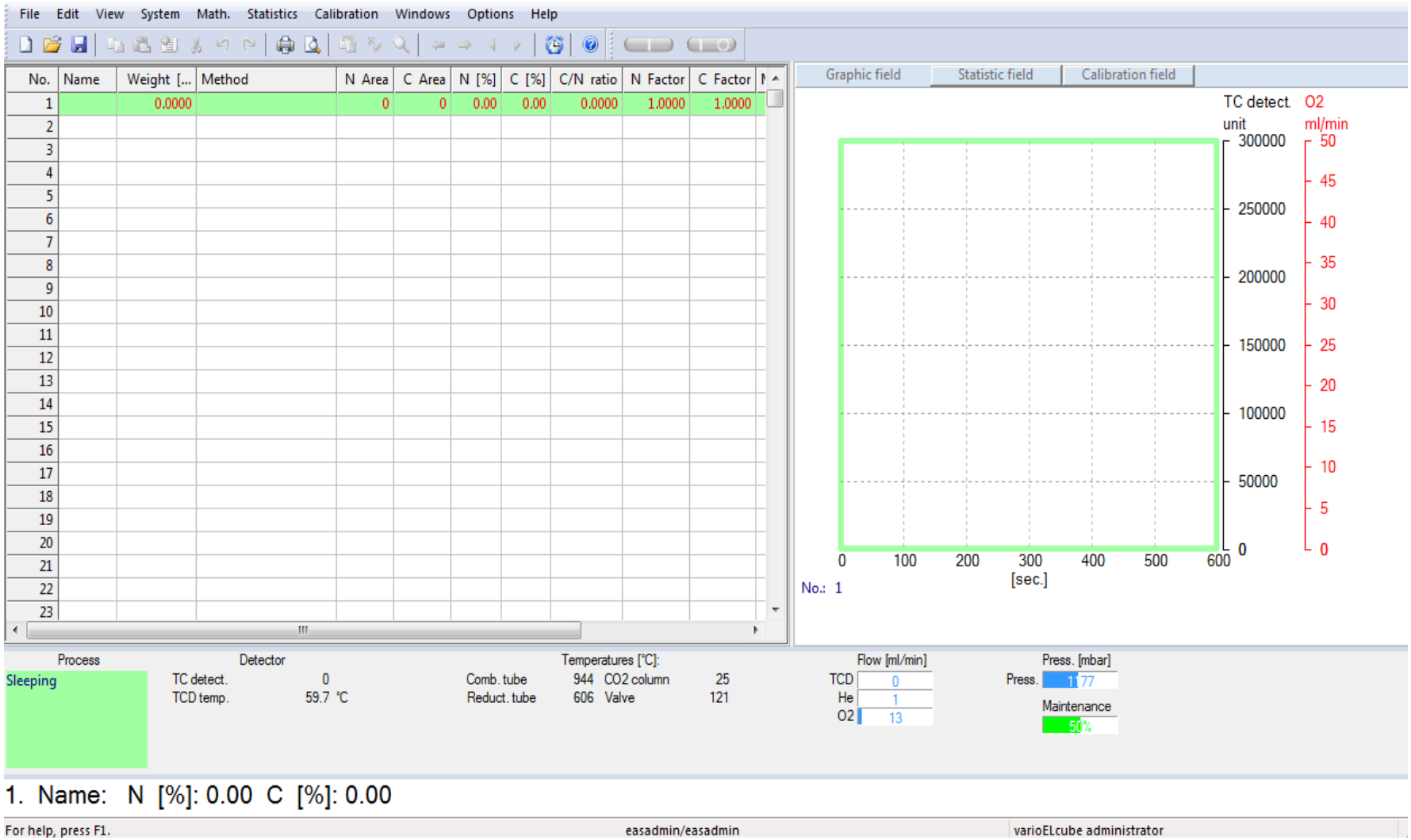


Création d'une nouvelle session

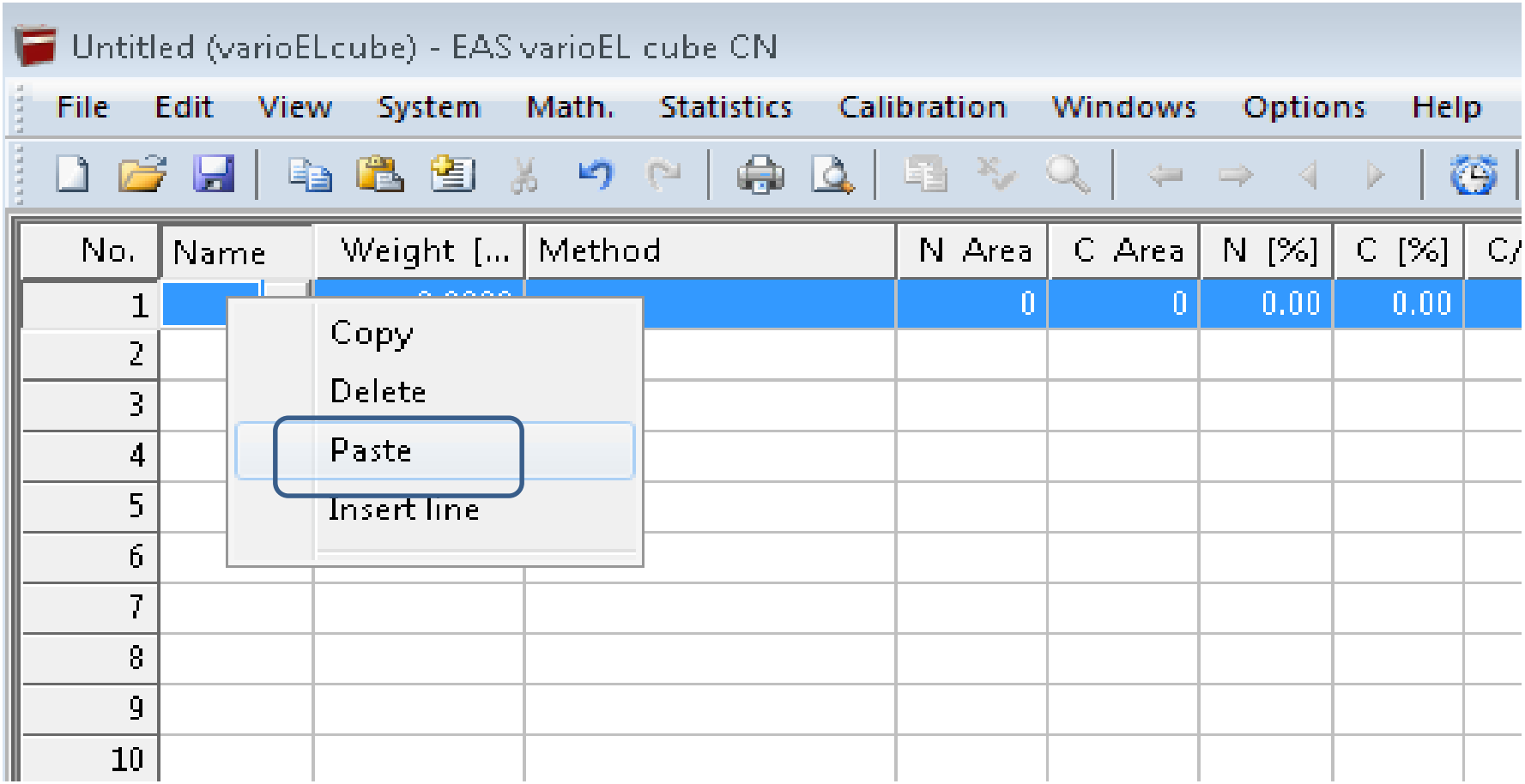


Fichier vierge pour importation Excel

Préparation préalable des standards et des contrôles

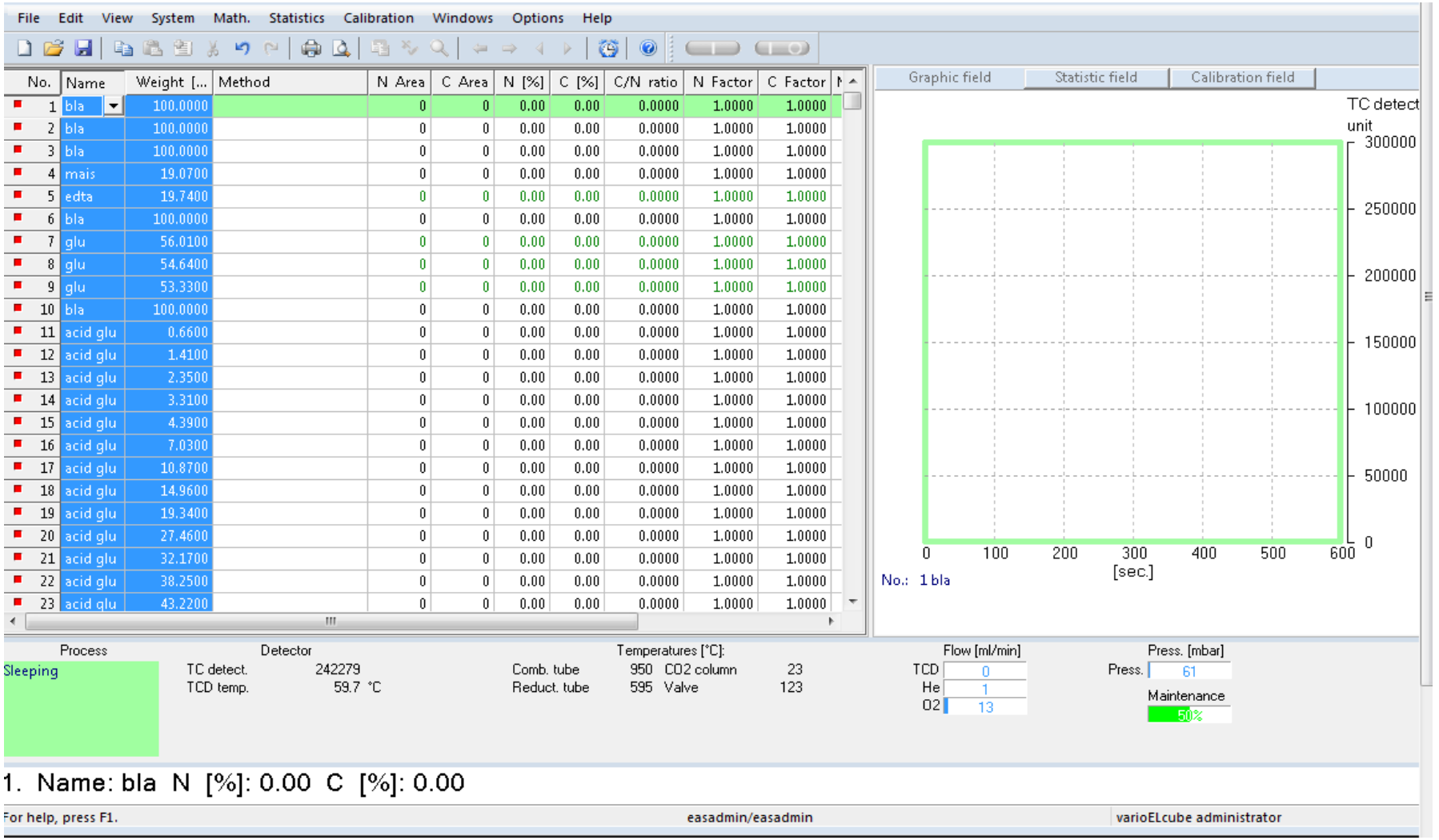


Coller le Fichier: identifiant-pesées



Mise en place du fichier

les points rouge indiquent des cellules non renseignées (ex: colonne Method)



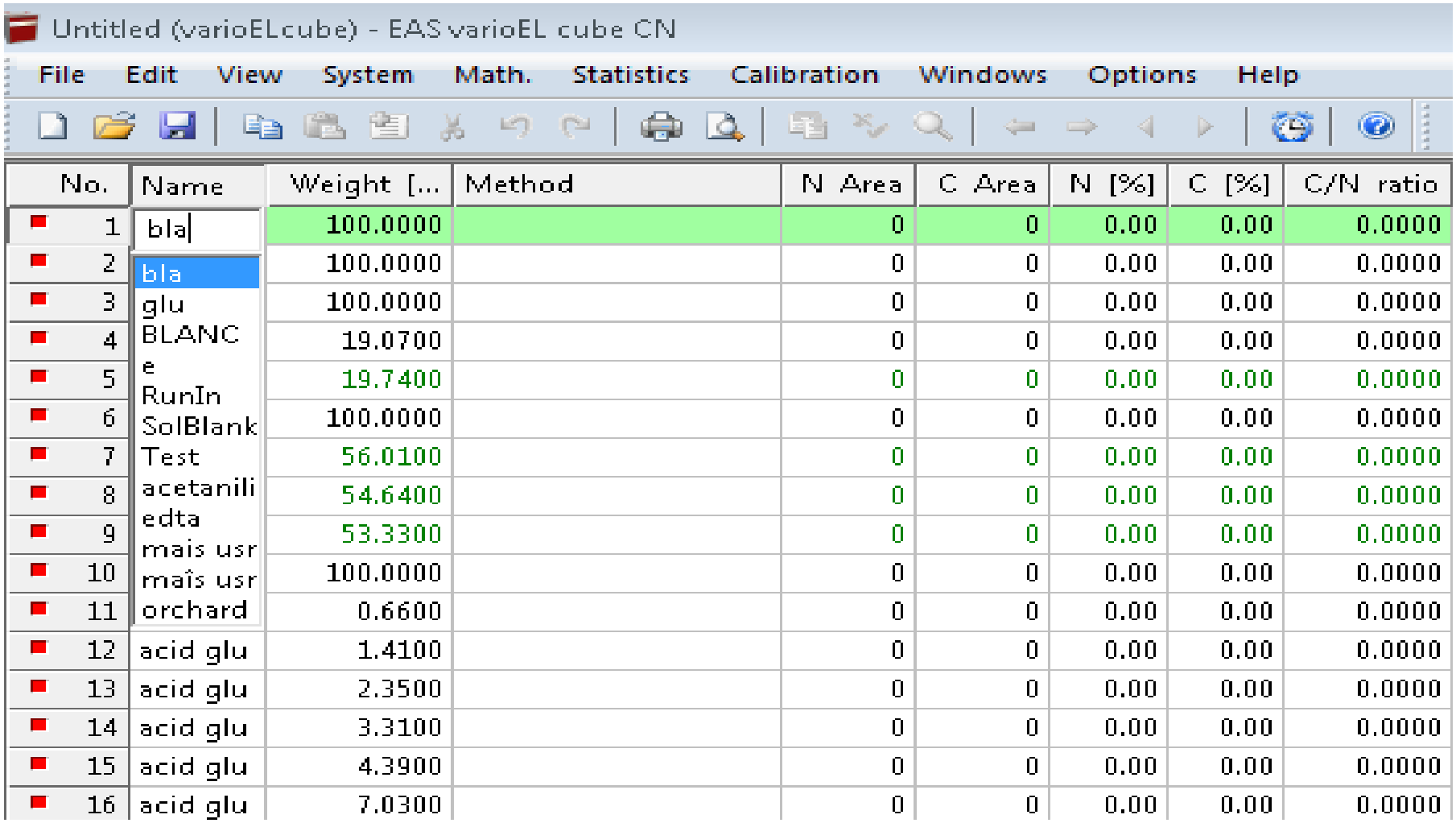
Convention

Création Fichier Excel machine format
(AAAA_MM_JJ UNITE)

Dénomination Usuelle	Code machine	Masse préconisée	Méthodes
Blancs	BLC	100mg	Blank withO
Standard bas	maïs	20mg	20mg 150s
Standard haut	EDTA A	20 mg	20mg 150s
Etalon 1/2/3	glu	50mg	90mg 180s
Contrôles	control N°	60mg	90mg 180s
Tous les 20 échantillons plus 1 en fin de série			
Echantillons	N° labo	50 à 70mg	90mg 180s
Poudre végétale ou autres			

Utilisation du menu déroulant: Name

blancs->Blc, standards->maïs et EDTA A, acide glutamique->glu



No.	Name	Weight [...	Method	N Area	C Area	N [%]	C [%]	C/N ratio
1	bla	100.0000		0	0	0.00	0.00	0.0000
2		100.0000		0	0	0.00	0.00	0.0000
3		100.0000		0	0	0.00	0.00	0.0000
4		19.0700		0	0	0.00	0.00	0.0000
5		19.7400		0	0	0.00	0.00	0.0000
6		100.0000		0	0	0.00	0.00	0.0000
7		56.0100		0	0	0.00	0.00	0.0000
8		54.6400		0	0	0.00	0.00	0.0000
9		53.3300		0	0	0.00	0.00	0.0000
10		100.0000		0	0	0.00	0.00	0.0000
11		0.6600		0	0	0.00	0.00	0.0000
12	acid glu	1.4100		0	0	0.00	0.00	0.0000
13	acid glu	2.3500		0	0	0.00	0.00	0.0000
14	acid glu	3.3100		0	0	0.00	0.00	0.0000
15	acid glu	4.3900		0	0	0.00	0.00	0.0000
16	acid glu	7.0300		0	0	0.00	0.00	0.0000

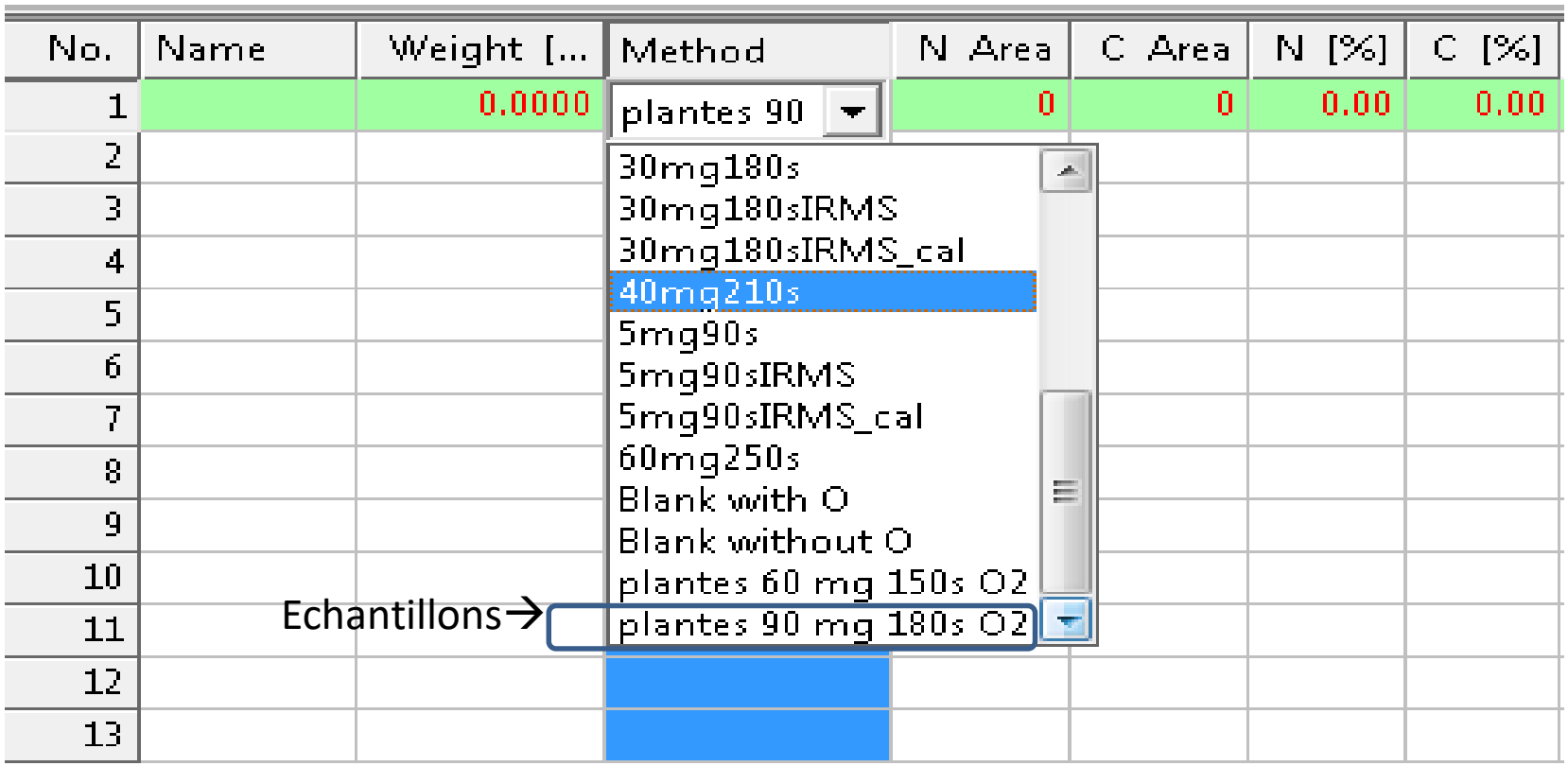
Utilisation du menu déroulant: Method

-BLC (masse fictive 100mg) →Blank with O

-standards (masse environ 20mg)→ 20mg 150s

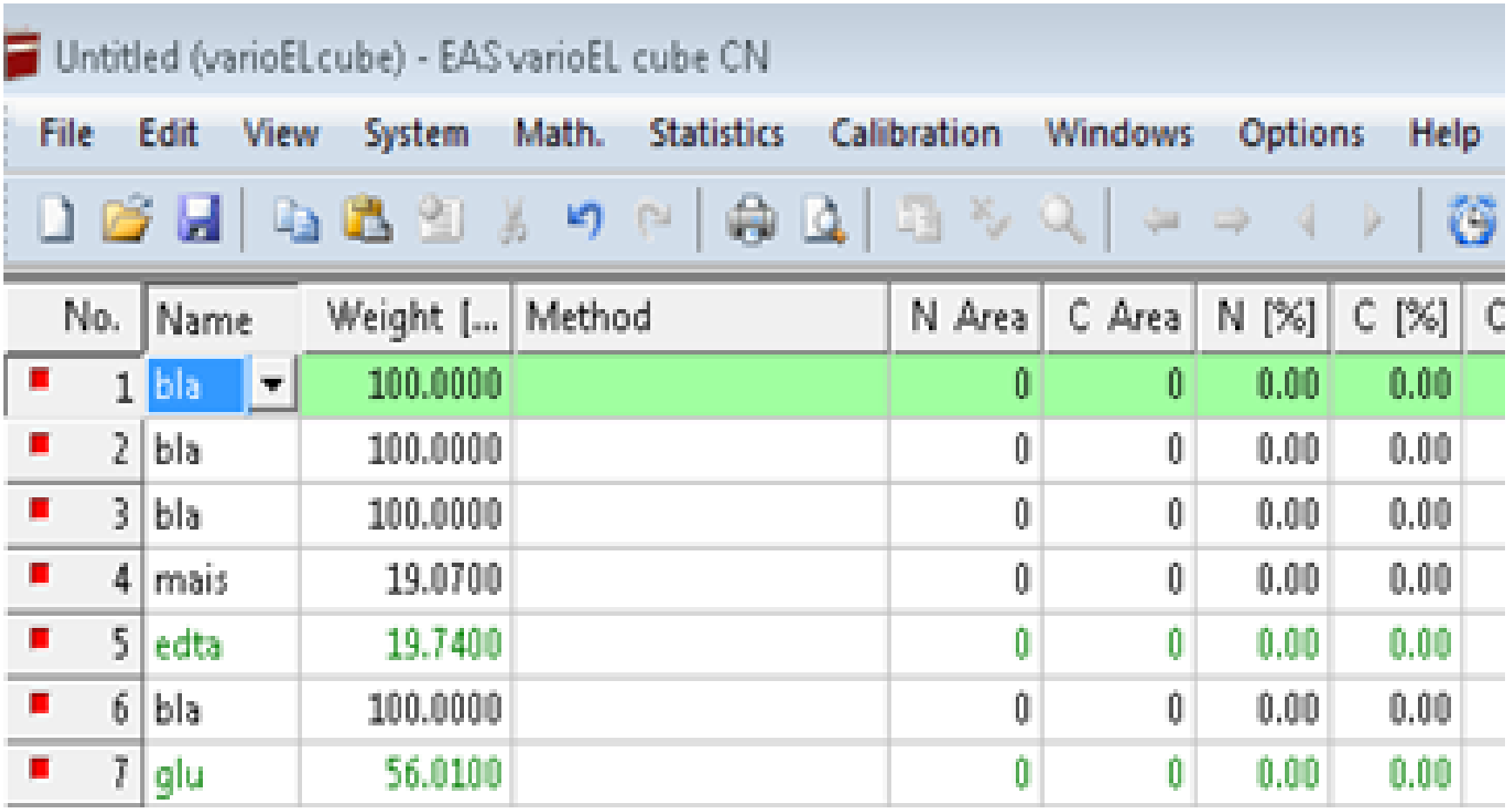
-contrôles (masse entre 50 et 60mg) →90mg 180s

-échantillons végétaux (masse environ 60mg) → 90mg 180s



Modifier un identifiant ou une pesée

après avoir sélectionné la cellule, saisir l'identifiant, idem pour le poids

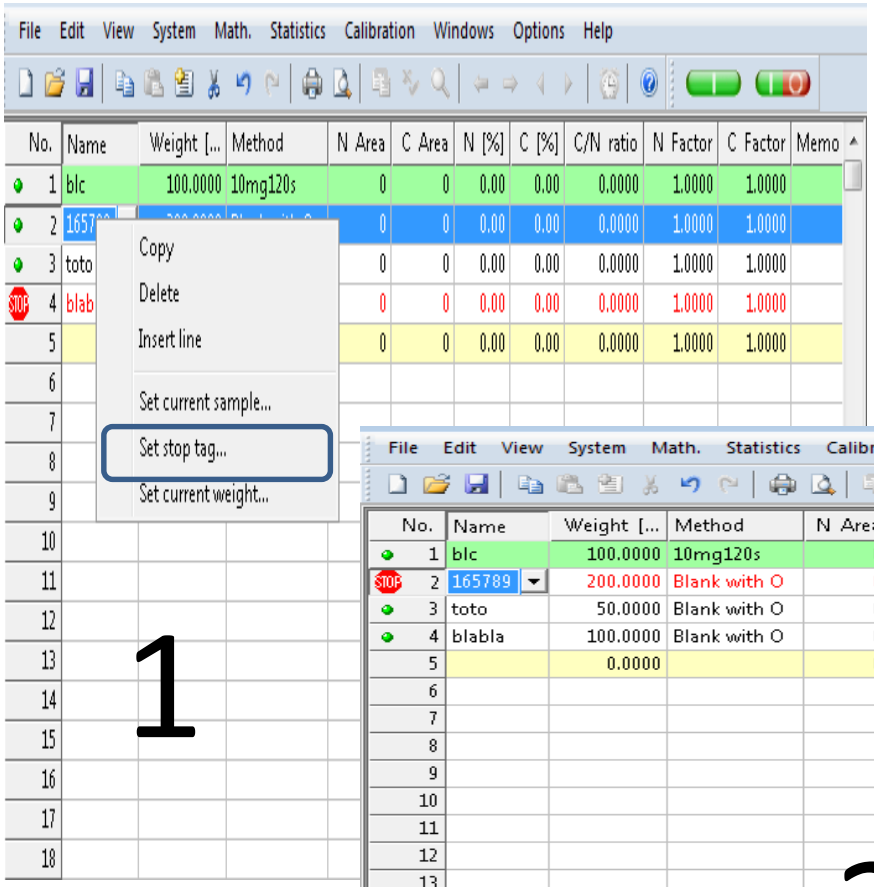


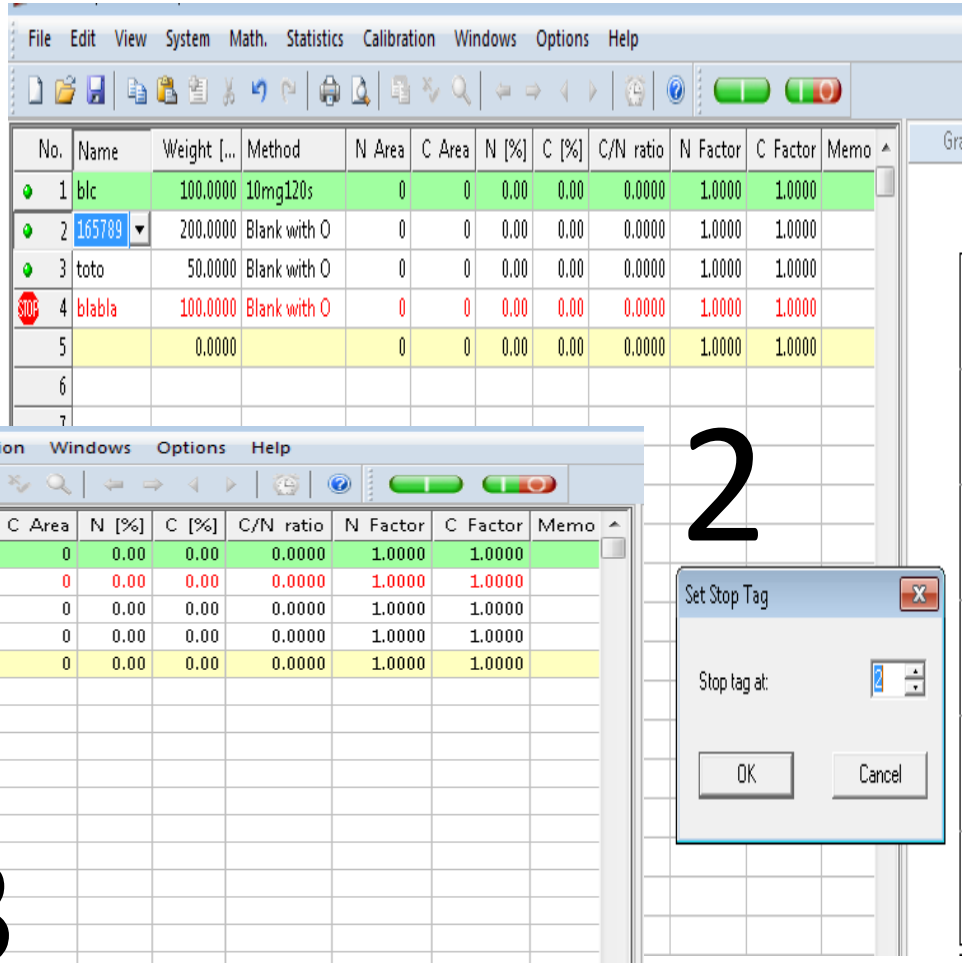
No.	Name	Weight [...	Method	N Area	C Area	N [%]	C [%]	C
1	bla	100.0000		0	0	0.00	0.00	
2	bla	100.0000		0	0	0.00	0.00	
3	bla	100.0000		0	0	0.00	0.00	
4	mais	19.0700		0	0	0.00	0.00	
5	edta	19.7400		0	0	0.00	0.00	
6	bla	100.0000		0	0	0.00	0.00	
7	glu	56.0100		0	0	0.00	0.00	

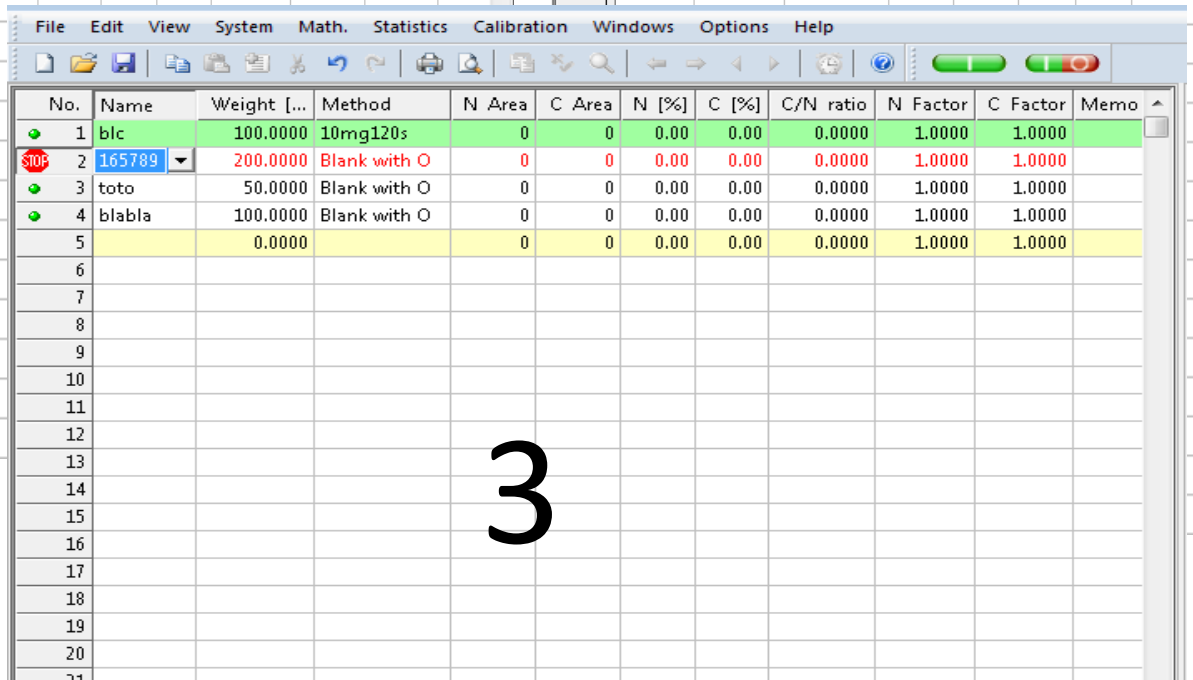
Positionnement intermédiaire: Stop Tag

Clic droit sur le numéro de ligne choisi -> set stop tag

dans l'exemple le panneau stop remontera en ligne 2

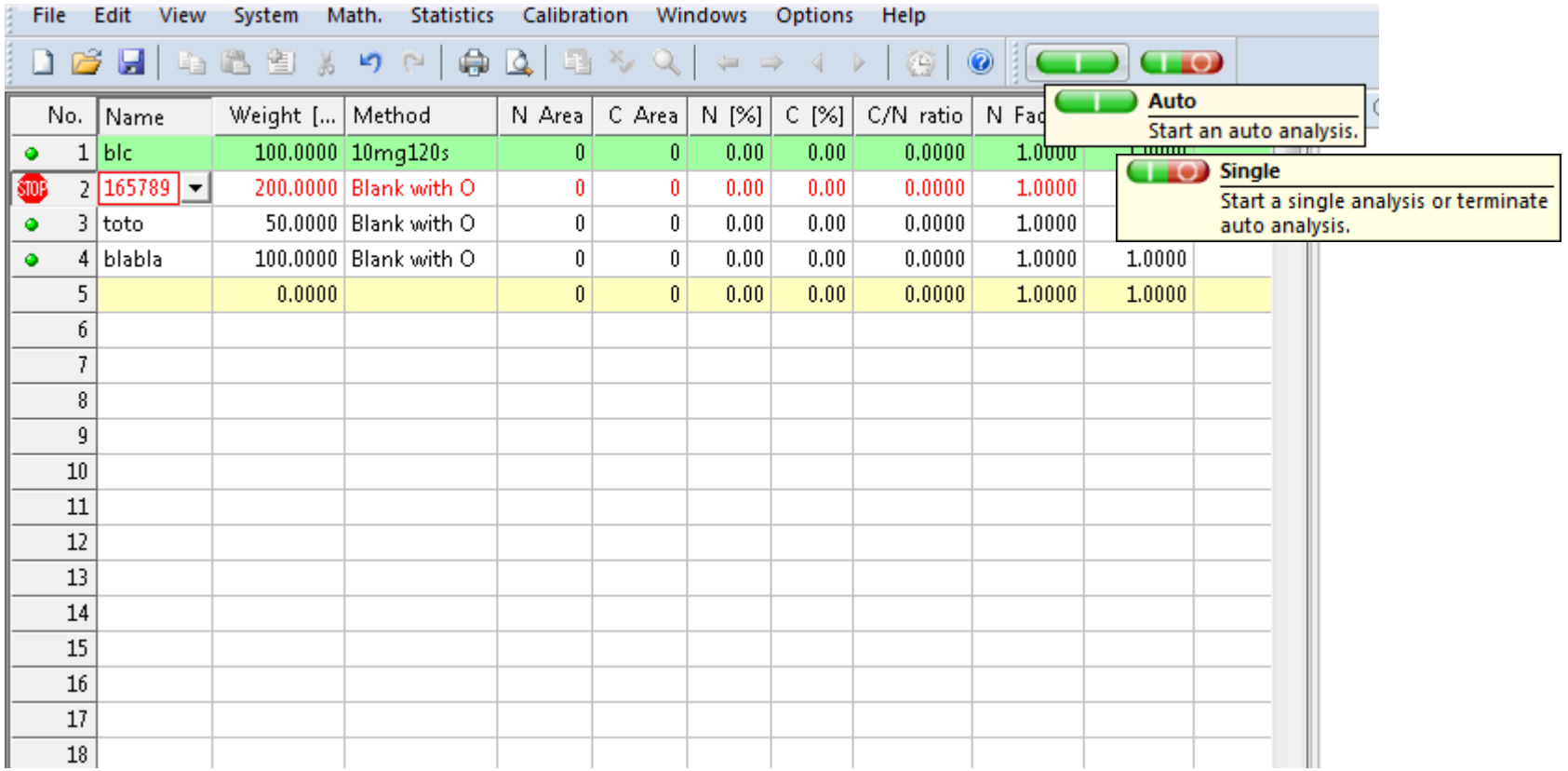




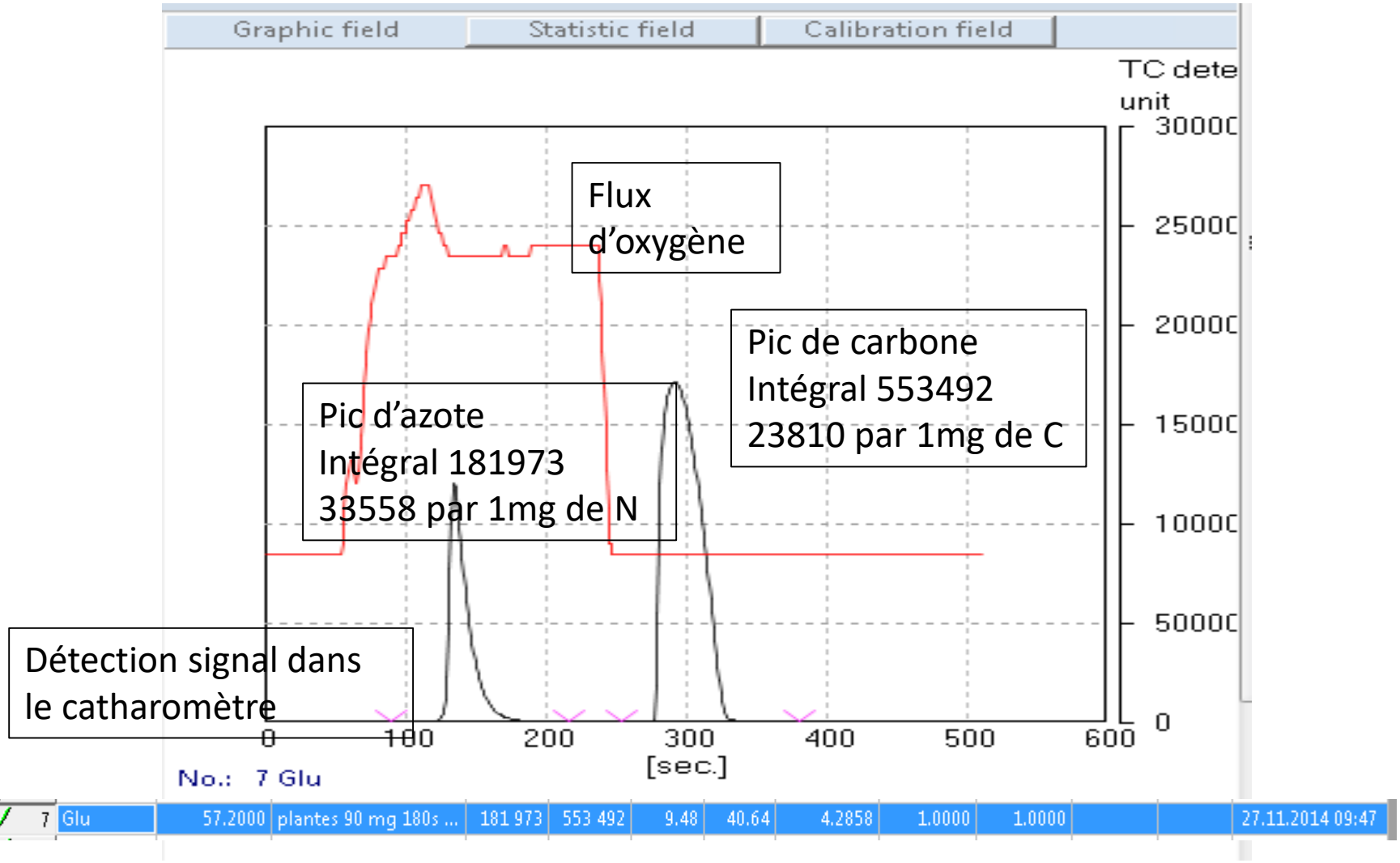


Démarrer les analyses

bouton vert (Auto) ou analyse pas a pas (Single)



Graphique type: 57,2mg acide glutamique



Valeurs des standards

Check list appareil

	Date	Valeurs					
	Opérateur						
	Nature/echantillon						
	Méthode utilisée						
Control	Standart bas		2%	- N% +	2%	2%	- C% +	2%
	Standart haut	sol leco	0,179	0,183	0,187	1,98	2,02	2,06
	Calibration 1 Ac Glu	maïs usrave	1,25	1,28	1,31			
	Calibration 2 Ac Glu	acide L glutamique	9,29	9,48	9,67	39,84	40,65	41,46
	Calibration 3 Ac Glu	EDTA Agir	9,37	9,57	9,76	40,23	41,06	41,88
	Daily Factor							
Maintenance a la fin	Tube dessechant G							
	Tube de réduction							
	Cendrier							
	Tube dessechant P							
	Tube de combustion							
	Valve							
	Observations							

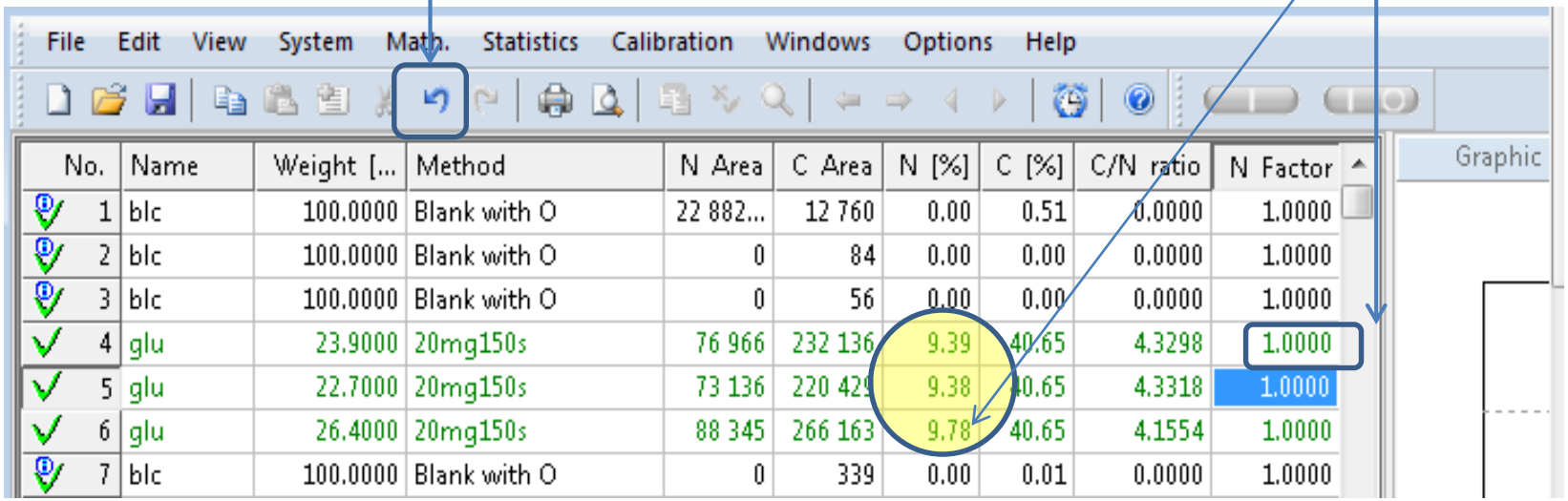
N et C daily factor
valeurs acceptées entre 0,98 et 1,02

File Edit View System Math. Statistics Calibration Windows Options Help

No.	Name	Weight [...	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor
1	blc	100.0000	Blank with O	22 882...	12 760	0.00	0.51	0.0000	1.0000
2	blc	100.0000	Blank with O	0	84	0.00	0.00	0.0000	1.0000
3	blc	100.0000	Blank with O	0	56	0.00	0.00	0.0000	1.0000
4	glu	23.9000	20mg150s	76 966	232 136	9.48	40.65	4.2880	1.0098
5	glu	22.7000	20mg150s	73 136	220 429	9.48	40.65	4.2880	1.0102
6	glu	26.4000	20mg150s	88 345	266 163	9.48	40.65	4.2880	0.9691
7	blc	100.0000	Blank with O	0	339	0.00	0.01	0.0000	0.9964

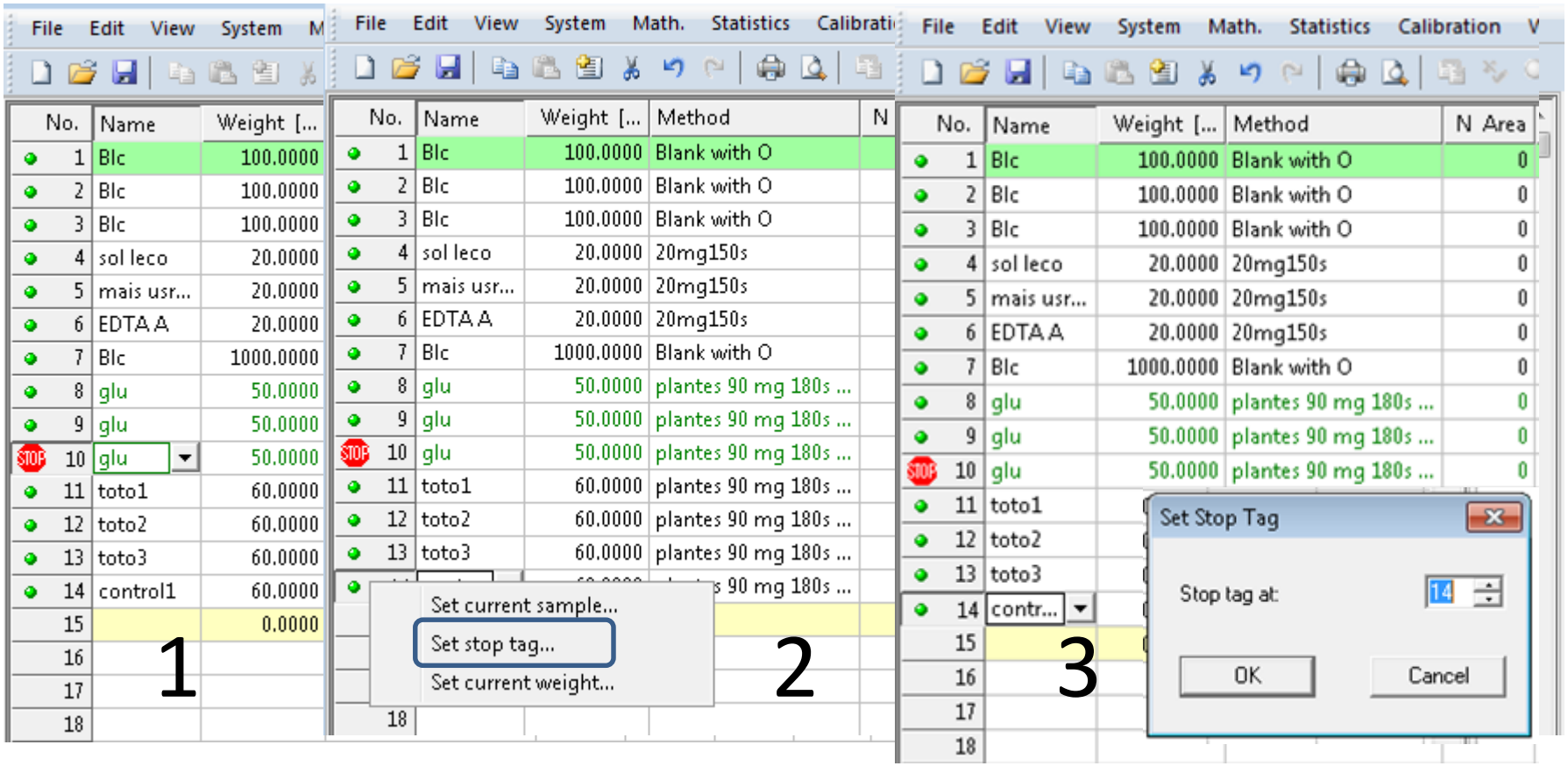
Valeurs non retenues

Affecter le coefficient 1 pour connaitre les valeurs réelles du standard
Utiliser la flèche de commande arrière pour revenir aux valeurs initiales

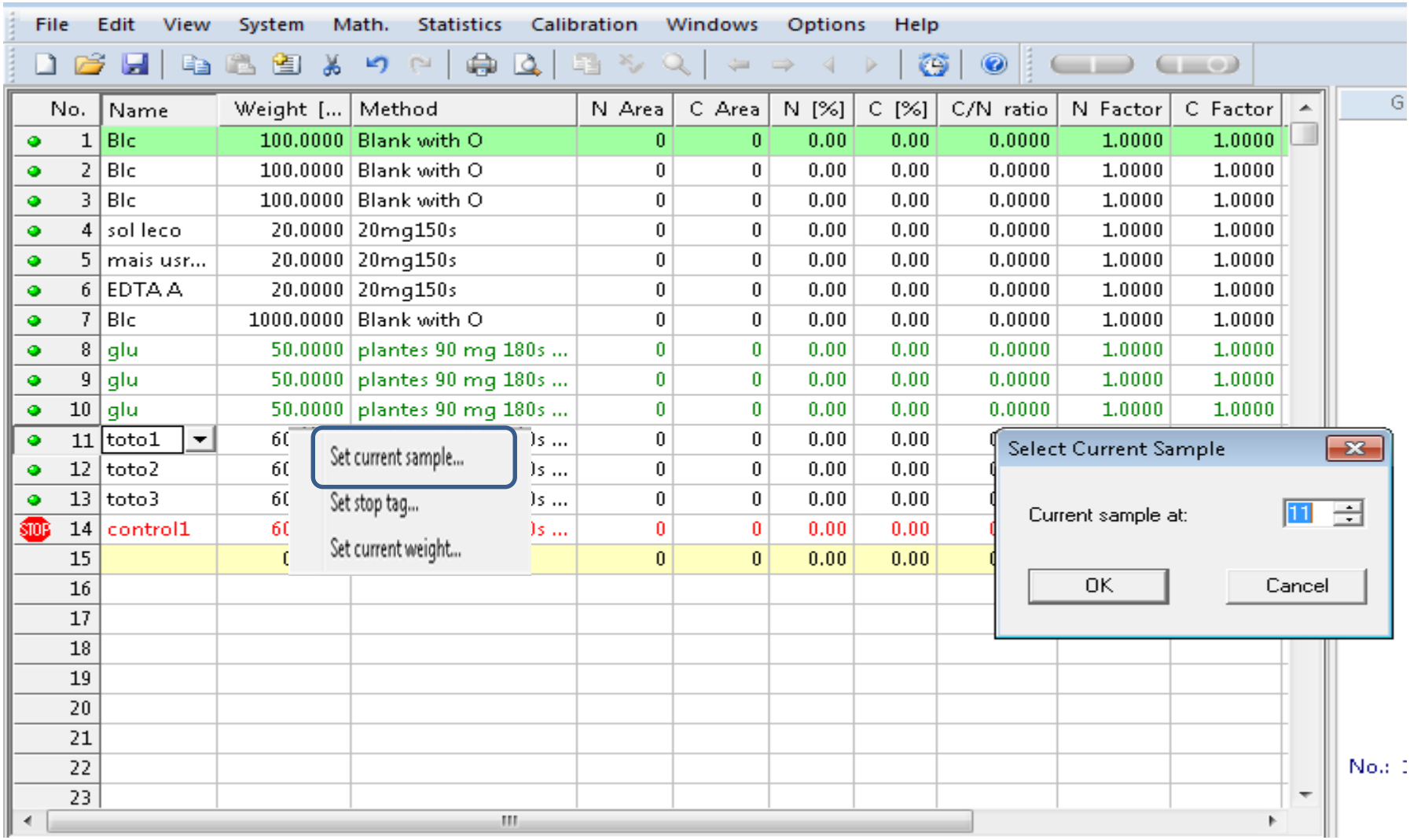


No.	Name	Weight [...	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor
1	blc	100.0000	Blank with O	22 882...	12 760	0.00	0.51	0.0000	1.0000
2	blc	100.0000	Blank with O	0	84	0.00	0.00	0.0000	1.0000
3	blc	100.0000	Blank with O	0	56	0.00	0.00	0.0000	1.0000
4	glu	23.9000	20mg150s	76 966	232 136	9.39	40.65	4.3298	1.0000
5	glu	22.7000	20mg150s	73 136	220 429	9.38	40.65	4.3318	1.0000
6	glu	26.4000	20mg150s	88 345	266 163	9.78	40.65	4.1554	1.0000
7	blc	100.0000	Blank with O	0	339	0.00	0.01	0.0000	1.0000

Positionnement du Stop Tag en fin d'analyse



Positionnement début d'analyse après validation des standards



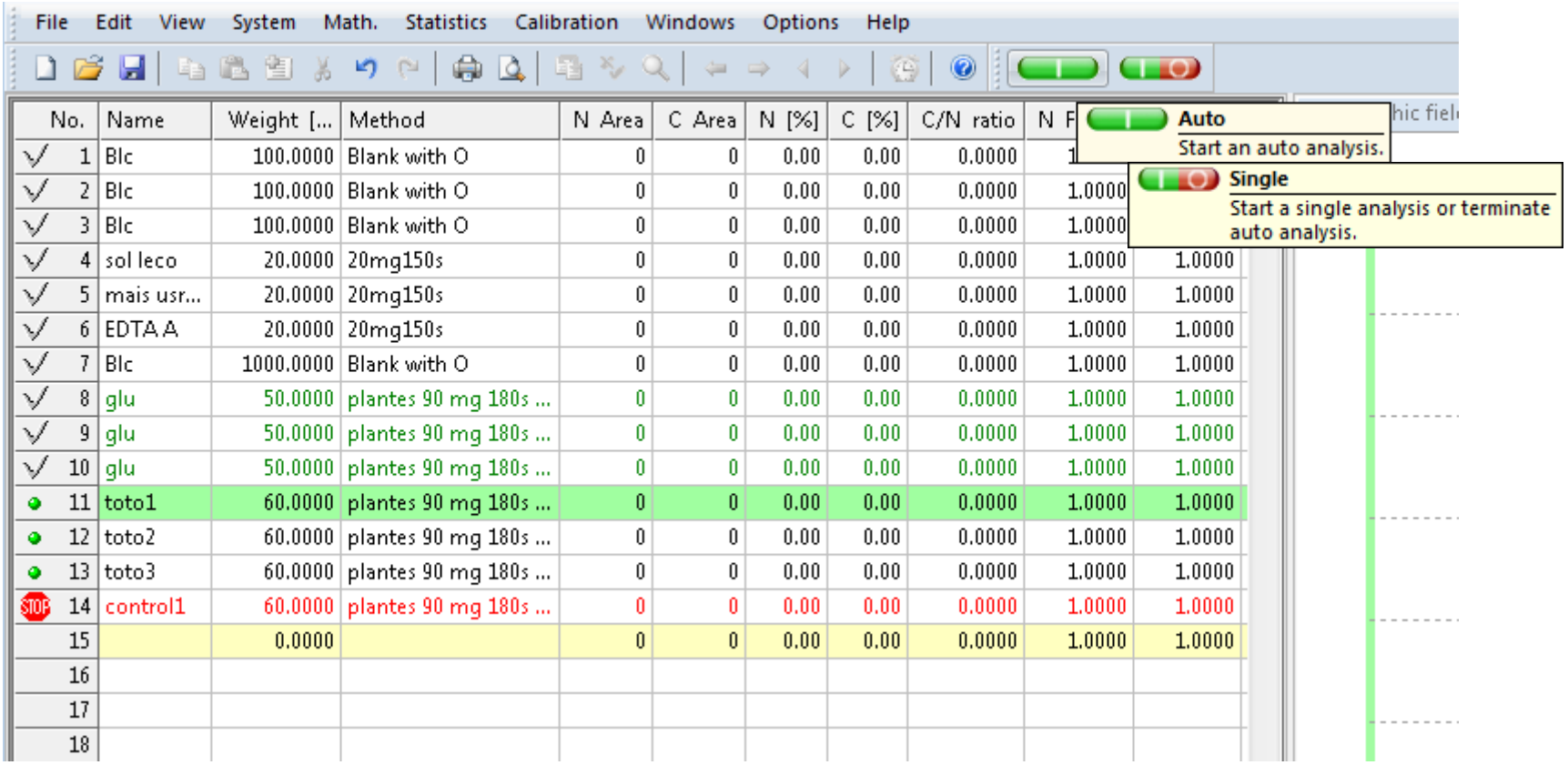
Positionnement du début des analyses

dans l'exemple les analyses débutent ligne N° 11

No.	Name	Weight [...	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
1	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
2	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
3	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
4	sol leco	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
5	mais usr...	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
6	EDTA A	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
7	Blc	1000.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
8	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
9	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
10	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
11	toto1	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
12	toto2	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
13	toto3	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
14	control1	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
15		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
16										
17										
18										

Démarrer les analyses

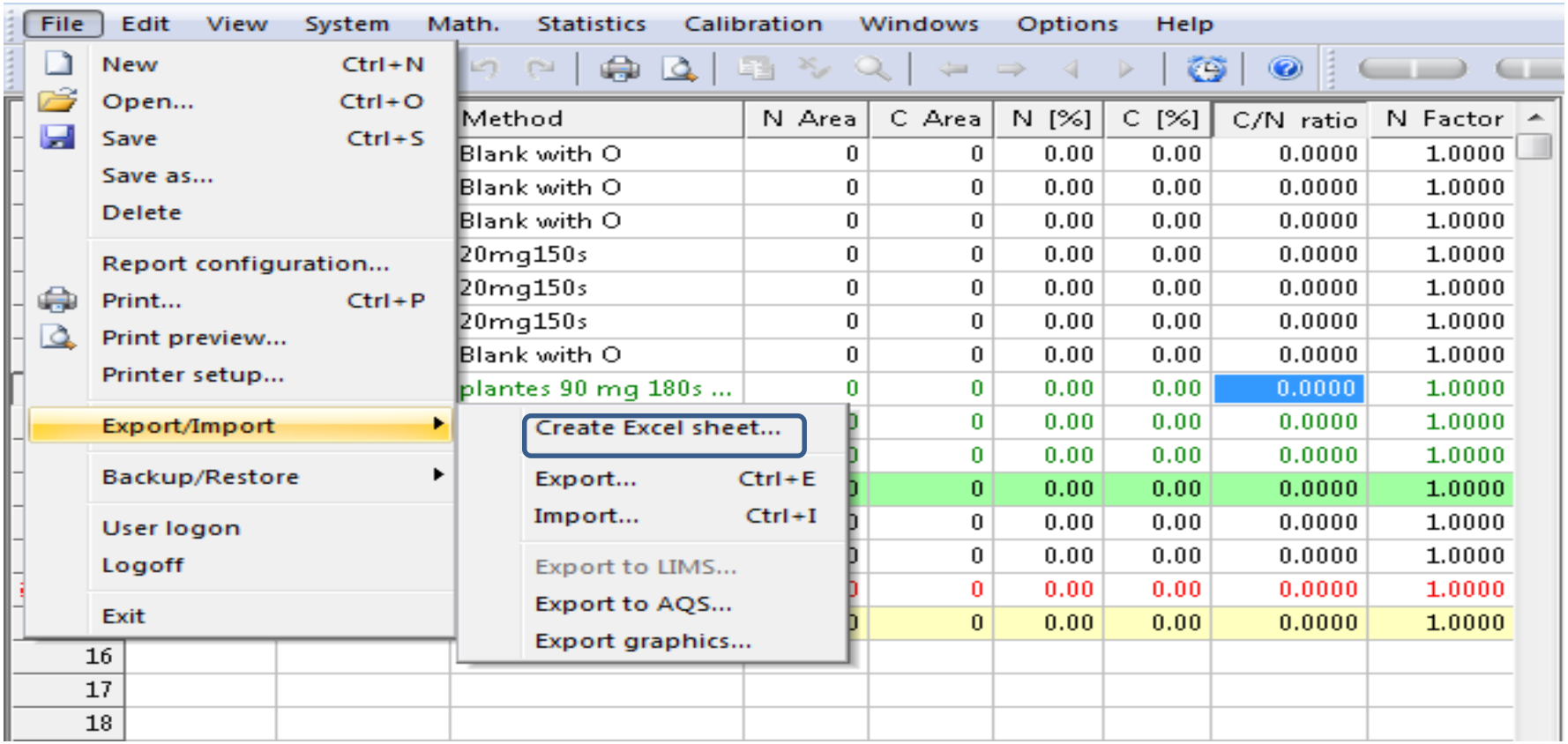
bouton vert Auto ou Single



No.	Name	Weight [...	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N F	
1	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1	
2	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	
3	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	
4	sol leco	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
5	mais usr...	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
6	EDTA A	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
7	Blc	1000.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
8	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
9	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
10	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
11	toto1	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
12	toto2	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
13	toto3	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
14	control1	60.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
15		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
16										
17										
18										

Fin des analyses

Sauvegarder le fichier en fin d'analyse et l'exporter



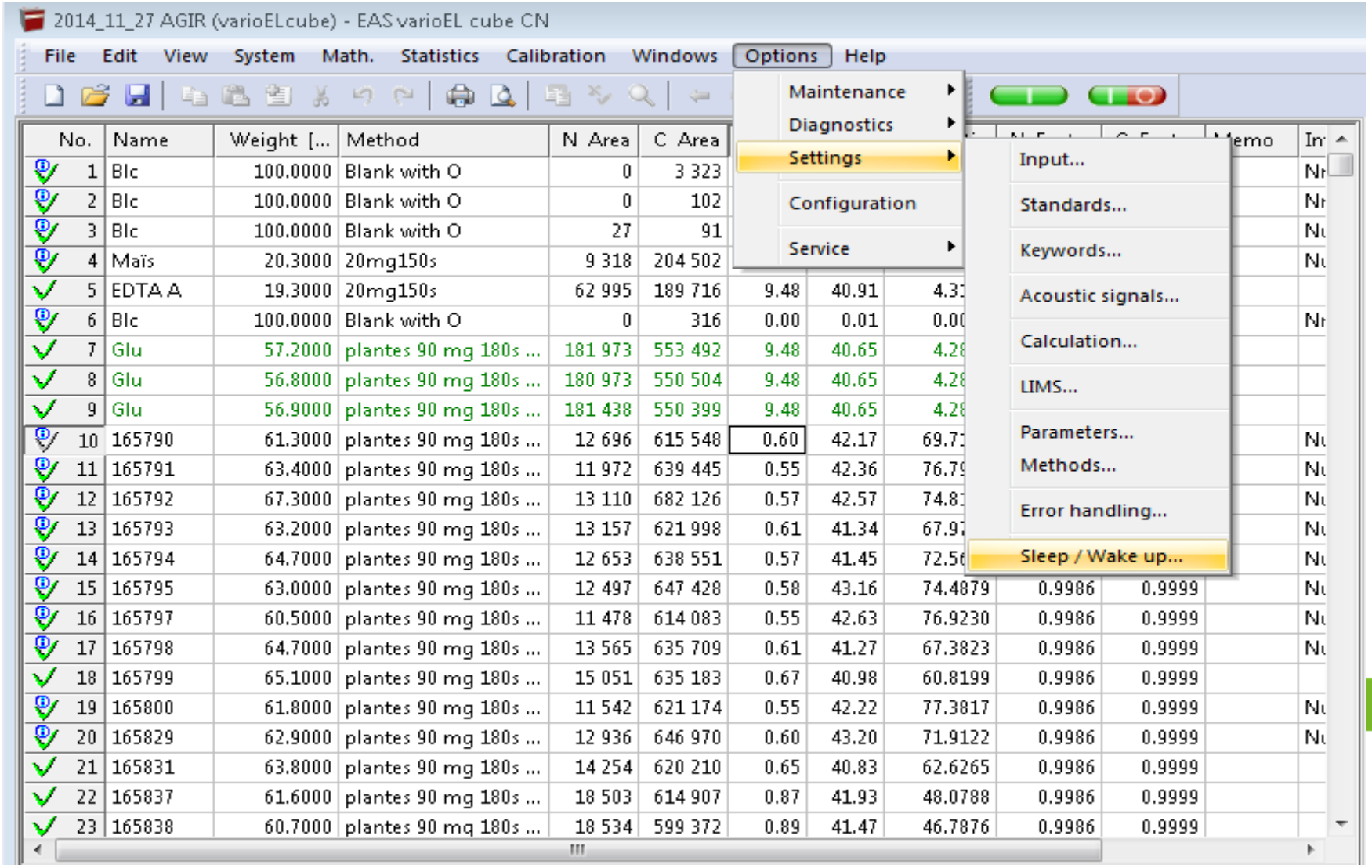
Compléter la feuille en fin d'analyse

cliquer sur maintenance (cf. guide de maintenance)

Check list appareil

	Date	Valeurs					
	Opérateur						
	Nature/echantillon						
	Méthode utilisée						
Control	Standart bas						
	Standart haut						
	Calibration 1 Ac Glu	9,48 +- 2%					
	Calibration 2 Ac Glu	9,48 +- 2%					
	Calibration 3 Ac Glu	9,48 +- 2%					
	Daily Factor	0,980 // 1,020					
Maintenance a la fin	Tube dessechant G						
	Tube de réduction						
	Cendrier						
	Tube dessechant P						
	Tube de combustion						
	Valve						
	Observations						

Mise en veille de l'analyseur



No.	Name	Weight [...	Method	N Area	C Area							
1	Blc	100.0000	Blank with O	0	3 323							
2	Blc	100.0000	Blank with O	0	102							
3	Blc	100.0000	Blank with O	27	91							
4	Maïs	20.3000	20mg150s	9 318	204 502							
5	EDTA A	19.3000	20mg150s	62 995	189 716	9.48	40.91	4.31				
6	Blc	100.0000	Blank with O	0	316	0.00	0.01	0.00				
7	Glu	57.2000	plantes 90 mg 180s ...	181 973	553 492	9.48	40.65	4.28				
8	Glu	56.8000	plantes 90 mg 180s ...	180 973	550 504	9.48	40.65	4.28				
9	Glu	56.9000	plantes 90 mg 180s ...	181 438	550 399	9.48	40.65	4.28				
10	165790	61.3000	plantes 90 mg 180s ...	12 696	615 548	0.60	42.17	69.71				
11	165791	63.4000	plantes 90 mg 180s ...	11 972	639 445	0.55	42.36	76.79				
12	165792	67.3000	plantes 90 mg 180s ...	13 110	682 126	0.57	42.57	74.81				
13	165793	63.2000	plantes 90 mg 180s ...	13 157	621 998	0.61	41.34	67.97				
14	165794	64.7000	plantes 90 mg 180s ...	12 653	638 551	0.57	41.45	72.56				
15	165795	63.0000	plantes 90 mg 180s ...	12 497	647 428	0.58	43.16	74.4879	0.9986	0.9999		
16	165797	60.5000	plantes 90 mg 180s ...	11 478	614 083	0.55	42.63	76.9230	0.9986	0.9999		
17	165798	64.7000	plantes 90 mg 180s ...	13 565	635 709	0.61	41.27	67.3823	0.9986	0.9999		
18	165799	65.1000	plantes 90 mg 180s ...	15 051	635 183	0.67	40.98	60.8199	0.9986	0.9999		
19	165800	61.8000	plantes 90 mg 180s ...	11 542	621 174	0.55	42.22	77.3817	0.9986	0.9999		
20	165829	62.9000	plantes 90 mg 180s ...	12 936	646 970	0.60	43.20	71.9122	0.9986	0.9999		
21	165831	63.8000	plantes 90 mg 180s ...	14 254	620 210	0.65	40.83	62.6265	0.9986	0.9999		
22	165837	61.6000	plantes 90 mg 180s ...	18 503	614 907	0.87	41.93	48.0788	0.9986	0.9999		
23	165838	60.7000	plantes 90 mg 180s ...	18 534	599 372	0.89	41.47	46.7876	0.9986	0.9999		

Mise en veille de l'analyseur (sleep now)