

TARSTURS

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Cd 228.802	5	Lin, Calc Int	119.0	33890	0.00000	0.999950	> 0.995
Co 228.616	5	Lin, Calc Int	94.4	18160	0.00000	0.999841	> 0.995
Cr 267.716	5	Lin, Calc Int	54.5	35180	0.00000	0.999988	> 0.995
Pb 220.353	5	Lin, Calc Int	4.4	1153	0.00000	0.999951	> 0.995
Ni 231.604	5	Lin, Calc Int	-11.4	4529	0.00000	0.999827	> 0.995
V 292.402	5	Lin, Calc Int	194.7	55410	0.00000	0.999984	> 0.995
Zn 206.200	5	Lin, Calc Int	47.1	8633	0.00000	0.999758	> 0.995
Mn 257.610	5	Lin, Calc Int	695.5	357400	0.00000	0.999988	> 0.995
As 188.979	5	Lin, Calc Int	9.4	643.3	0.00000	0.999047	> 0.995

OK

Sequence No.: 1  
Sample ID: reagent blank  
Analyst:  
Logged In Analyst (Original) : Administrator  
Initial Sample Wt:  
Dilution:

Autosampler Location:  
Date Collected: 03/05/2021 13.06.43  
Data Type: Reprocessed on 06/05/2021 17.06.14

Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: reagent blank

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y_XL	601094.0	601094.0			13:07:28
1	Y_RL	20618.7	20618.7			13:07:11
1	Cd 228.802	59.4	-4.4	-0.004 mg/L	-0.004 mg/L	13:07:34
1	Co 228.616	46.2	97.2	0.000 mg/L	0.000 mg/L	13:07:34
1	Cr 267.716	375.9	232.1	0.005 mg/L	0.005 mg/L	13:07:34
1	Pb 220.353	40.4	20.4	0.014 mg/L	0.014 mg/L	13:07:34
1	V 292.402	-651.1	62.7	-0.002 mg/L	-0.002 mg/L	13:07:34
2	Y_XL	600969.6	600969.6			13:07:35
2	Y_RL	20226.6	20226.6			13:07:19
2	Cd 228.802	112.8	49.1	-0.002 mg/L	-0.002 mg/L	13:07:40
2	Co 228.616	40.2	91.2	0.000 mg/L	0.000 mg/L	13:07:40
2	Cr 267.716	389.3	245.5	0.005 mg/L	0.005 mg/L	13:07:40
2	Pb 220.353	43.3	23.2	0.016 mg/L	0.016 mg/L	13:07:40
2	V 292.402	-773.5	-59.7	-0.005 mg/L	-0.005 mg/L	13:07:40
3	Y_XL	608839.1	608839.1			13:07:42
3	Y_RL	20610.6	20610.6			13:07:26
3	Cd 228.802	60.4	-3.4	-0.004 mg/L	-0.004 mg/L	13:07:47
3	Co 228.616	27.9	79.0	-0.001 mg/L	-0.001 mg/L	13:07:47
3	Cr 267.716	408.4	264.6	0.006 mg/L	0.006 mg/L	13:07:47
3	Pb 220.353	27.0	6.9	0.002 mg/L	0.002 mg/L	13:07:47
3	V 292.402	-735.7	-21.8	-0.004 mg/L	-0.004 mg/L	13:07:47

Mean Data: reagent blank

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y_XL	603634.2				4507.96	0.75%
Y_RL	20485.3				224.06	1.09%
Cd 228.802	13.8	-0.003 mg/L	0.0009	-0.003 mg/L	0.0009	29.03%
Co 228.616	89.1	0.000 mg/L	0.0005	0.000 mg/L	0.0005	177.25%
Cr 267.716	247.4	0.005 mg/L	0.0005	0.005 mg/L	0.0005	8.47%
Pb 220.353	16.8	0.011 mg/L	0.0075	0.011 mg/L	0.0075	69.83%
V 292.402	-6.2	-0.004 mg/L	0.0011	-0.004 mg/L	0.0011	31.19%

Sequence No.: 2  
Sample ID: 2702 HNO3/HCl (3:1) ml  
Analyst:  
Logged In Analyst (Original) : Administrator  
Initial Sample Wt:  
Dilution:

Autosampler Location:  
Date Collected: 03/05/2021 13.08.20  
Data Type: Reprocessed on 06/05/2021 17.06.14

Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: 2702 HNO3/HCl (3:1) ml

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y_XL	779340.3	779340.3			13:08:54

1	Y_RL	22255.6	22255.6			13:08:43
1	Cd 228.802	338.1	274.3	0.008 mg/L	0.008 mg/L	13:09:00
1	Co 228.616	6061.1	6112.2	0.332 mg/L	0.332 mg/L	13:09:00
1	Cr 267.716	121957.3	121813.5	3.456 mg/L	3.456 mg/L	13:08:54
1	Pb 220.353	1592.4	1572.4	1.349 mg/L	1.349 mg/L	13:09:00
1	Ni 231.604	3188.0	3130.8	0.694 mg/L	0.694 mg/L	13:09:00
1	V 292.402	202038.2	202752.1	3.659 mg/L	3.659 mg/L	13:08:54
1	Zn 206.200	40374.5	40402.1	4.674 mg/L	4.674 mg/L	13:08:54
1	Mn 257.610	6293472.0	6293367.4	17.60 mg/L	17.60 mg/L	13:08:52
1	As 188.979	243.9	250.4	0.375 mg/L	0.375 mg/L	13:09:00
2	Y_XL	793004.4	793004.4			13:09:05
2	Y_RL	23168.4	23168.4			13:08:45
2	Cd 228.802	336.5	272.7	0.008 mg/L	0.008 mg/L	13:09:11
2	Co 228.616	6019.4	6070.5	0.329 mg/L	0.329 mg/L	13:09:11
2	Cr 267.716	118496.9	118353.1	3.358 mg/L	3.358 mg/L	13:09:05
2	Pb 220.353	1594.2	1574.1	1.351 mg/L	1.351 mg/L	13:09:11
2	Ni 231.604	3232.6	3175.4	0.704 mg/L	0.704 mg/L	13:09:11
2	V 292.402	195142.7	195856.6	3.535 mg/L	3.535 mg/L	13:09:05
2	Zn 206.200	39029.8	39057.5	4.519 mg/L	4.519 mg/L	13:09:05
2	Mn 257.610	6313857.7	6313753.1	17.66 mg/L	17.66 mg/L	13:09:03
2	As 188.979	270.5	277.1	0.416 mg/L	0.416 mg/L	13:09:11
3	Y_XL	769611.6	769611.6			13:09:16
3	Y_RL	23346.1	23346.1			13:08:47
3	Cd 228.802	256.5	192.7	0.005 mg/L	0.005 mg/L	13:09:22
3	Co 228.616	6066.7	6117.7	0.332 mg/L	0.332 mg/L	13:09:22
3	Cr 267.716	120325.0	120181.2	3.409 mg/L	3.409 mg/L	13:09:16
3	Pb 220.353	1595.3	1575.2	1.351 mg/L	1.351 mg/L	13:09:22
3	Ni 231.604	3261.0	3203.8	0.710 mg/L	0.710 mg/L	13:09:22
3	V 292.402	198147.3	198861.2	3.589 mg/L	3.589 mg/L	13:09:16
3	Zn 206.200	39389.4	39417.0	4.560 mg/L	4.560 mg/L	13:09:16
3	Mn 257.610	6381389.2	6381284.6	17.85 mg/L	17.85 mg/L	13:09:15
3	As 188.979	251.8	258.4	0.387 mg/L	0.387 mg/L	13:09:22

Mean Data: 2702 HNO3/HCl (3:1) m1

PROVA 1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y_XL	780652.1				11751.43	1.51%
Y_RL	22923.4				585.06	2.55%
Cd 228.802	246.6	0.007 mg/L	0.0014	0.007 mg/L	0.0014	20.04%
Co 228.616	6100.1	0.331 mg/L	0.0014	0.331 mg/L	0.0014	0.43%
Cr 267.716	120115.9	3.408 mg/L	0.0492	3.408 mg/L	0.0492	1.44%
Pb 220.353	1573.9	1.350 mg/L	0.0012	1.350 mg/L	0.0012	0.09%
Ni 231.604	3170.0	0.703 mg/L	0.0081	0.703 mg/L	0.0081	1.16%
V 292.402	199156.6	3.594 mg/L	0.0624	3.594 mg/L	0.0624	1.74%
Zn 206.200	39625.5	4.584 mg/L	0.0806	4.584 mg/L	0.0806	1.76%
Mn 257.610	6329468.3	17.71 mg/L	0.129	17.71 mg/L	0.129	0.73%
As 188.979	262.0	0.393 mg/L	0.0213	0.393 mg/L	0.0213	5.42%

Sequence No.: 3

Autosampler Location:

Sample ID: 2702 HNO3/HCl (3:1) m2

Date Collected: 03/05/2021 13.09.32

Analyst:

Data Type: Reprocessed on 06/05/2021 17.06.14

Logged In Analyst (Original) : Administrator

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution:

Replicate Data: 2702 HNO3/HCl (3:1) m2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y_XL	768776.8	768776.8			13:10:02
1	Y_RL	24945.3	24945.3			13:09:54
1	Cd 228.802	267.5	203.7	0.006 mg/L	0.006 mg/L	13:10:08
1	Co 228.616	5543.7	5594.7	0.303 mg/L	0.303 mg/L	13:10:08
1	Cr 267.716	108311.0	108167.2	3.068 mg/L	3.068 mg/L	13:10:03
1	Pb 220.353	1497.3	1477.2	1.267 mg/L	1.267 mg/L	13:10:08
1	Ni 231.604	3008.8	2951.5	0.654 mg/L	0.654 mg/L	13:10:08
1	V 292.402	177745.1	178458.9	3.221 mg/L	3.221 mg/L	13:10:03
1	Zn 206.200	35264.1	35291.7	4.082 mg/L	4.082 mg/L	13:10:03
1	Mn 257.610	5753462.7	5753358.1	16.09 mg/L	16.09 mg/L	13:10:02
1	As 188.979	238.8	245.3	0.367 mg/L	0.367 mg/L	13:10:08
2	Y_XL	790147.5	790147.5			13:10:12
2	Y_RL	24220.6	24220.6			13:09:55



2	Cd 228.802	342.2	278.4	0.008 mg/L	0.008 mg/L	13:10:18
2	Co 228.616	5409.2	5460.2	0.296 mg/L	0.296 mg/L	13:10:18
2	Cr 267.716	108757.6	108613.8	3.081 mg/L	3.081 mg/L	13:10:13
2	Pb 220.353	1468.8	1448.7	1.242 mg/L	1.242 mg/L	13:10:18
2	Ni 231.604	2954.3	2897.0	0.642 mg/L	0.642 mg/L	13:10:18
2	V 292.402	178532.0	179245.9	3.235 mg/L	3.235 mg/L	13:10:13
2	Zn 206.200	35630.2	35657.8	4.125 mg/L	4.125 mg/L	13:10:13
2	Mn 257.610	5740165.8	5740061.2	16.06 mg/L	16.06 mg/L	13:10:12
2	As 188.979	243.4	249.9	0.374 mg/L	0.374 mg/L	13:10:18
3	Y_XL	797048.1	797048.1			13:10:22
3	Y_RL	24111.0	24111.0			13:09:56
3	Cd 228.802	287.1	223.3	0.006 mg/L	0.006 mg/L	13:10:28
3	Co 228.616	5368.0	5419.0	0.293 mg/L	0.293 mg/L	13:10:28
3	Cr 267.716	108851.8	108708.0	3.083 mg/L	3.083 mg/L	13:10:23
3	Pb 220.353	1447.0	1426.9	1.223 mg/L	1.223 mg/L	13:10:28
3	Ni 231.604	2940.2	2882.9	0.639 mg/L	0.639 mg/L	13:10:28
3	V 292.402	178211.4	178925.2	3.229 mg/L	3.229 mg/L	13:10:23
3	Zn 206.200	35623.1	35650.8	4.124 mg/L	4.124 mg/L	13:10:23
3	Mn 257.610	5610926.4	5610821.7	15.70 mg/L	15.70 mg/L	13:10:22
3	As 188.979	242.8	249.4	0.373 mg/L	0.373 mg/L	13:10:28

Mean Data: 2702 HNO3/HCl (3:1) m2

PROVA 2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y_XL	785324.1				14739.92	1.88%
Y_RL	24425.6				453.37	1.86%
Cd 228.802	235.1	0.007 mg/L	0.0011	0.007 mg/L	0.0011	17.49%
Co 228.616	5491.3	0.297 mg/L	0.0051	0.297 mg/L	0.0051	1.70%
Cr 267.716	108496.3	3.077 mg/L	0.0082	3.077 mg/L	0.0082	0.27%
Pb 220.353	1450.9	1.244 mg/L	0.0219	1.244 mg/L	0.0219	1.76%
Ni 231.604	2910.5	0.645 mg/L	0.0080	0.645 mg/L	0.0080	1.24%
V 292.402	178876.7	3.228 mg/L	0.0071	3.228 mg/L	0.0071	0.22%
Zn 206.200	35533.4	4.110 mg/L	0.0242	4.110 mg/L	0.0242	0.59%
Mn 257.610	5701413.7	15.95 mg/L	0.220	15.95 mg/L	0.220	1.38%
As 188.979	248.2	0.371 mg/L	0.0039	0.371 mg/L	0.0039	1.05%

Sequence No.: 1

Sample ID: 2702HNO3/HCl (3:1) ml d10

Analyst:

Logged In Analyst (Original) : Administrator

Initial Sample Wt:

Dilution:

Autosampler Location:

Date Collected: 03/05/2021 15.59.37

Data Type: Reprocessed on 06/05/2021 17.06.28

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 2702HNO3/HCl (3:1) ml d10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y_XL	746579.9	746579.9			16:00:06
1	Y_RL	28547.5	28547.5			15:59:58
1	Zn 206.200	3623.2	3650.8	0.417 mg/L	0.417 mg/L	16:00:12
1	Mn 257.610	566274.6	566170.0	1.582 mg/L	1.582 mg/L	16:00:06
2	Y_XL	736481.4	736481.4			16:00:15
2	Y_RL	28167.9	28167.9			16:00:00
2	Zn 206.200	3672.4	3700.0	0.423 mg/L	0.423 mg/L	16:00:21
2	Mn 257.610	549871.5	549766.9	1.536 mg/L	1.536 mg/L	16:00:15
3	Y_XL	743322.1	743322.1			16:00:24
3	Y_RL	27961.9	27961.9			16:00:01
3	Zn 206.200	3631.1	3658.8	0.418 mg/L	0.418 mg/L	16:00:31
3	Mn 257.610	553946.3	553841.6	1.548 mg/L	1.548 mg/L	16:00:24

Mean Data: 2702HNO3/HCl (3:1) ml d10

PROVA 1 DIL 10 TEST DILUZIONI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y_XL	742127.8				5154.12	0.69%
Y_RL	28225.8				297.07	1.05%
Zn 206.200	3669.9	0.420 mg/L	0.0031	0.420 mg/L	0.0031	0.73%
Mn 257.610	556592.9	1.555 mg/L	0.0239	1.555 mg/L	0.0239	1.54%

Sequence No.: 1

Sample ID: 2702HNO3/HCl (3:1) m2 d10

Autosampler Location:

Date Collected: 03/05/2021 16.00.39

Analyst:  
 Logged In Analyst (Original) : Administrator  
 Initial Sample Wt:  
 Dilution:

Data Type: Reprocessed on 06/05/2021 17.06.39  
 Initial Sample Vol:  
 Sample Prep Vol:

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Replicate Data: 2702HNO3/HCl (3:1) m2 d10 *PROVA 2 BIL DO TEST DIVISIONE*

Repl#	Analyte	Intensity Net	Intensity Corrected	Conc. Units Calib.	Conc. Units Sample	Analysis Time
1	Y_XL	732622.6	732622.6			16:01:09
1	Y_RL	27502.8	27502.8			16:01:01
1	Cr 267.716	13416.3	13272.5	0.312 mg/L	0.312 mg/L	16:01:10
2	Y_XL	728262.5	728262.5			16:01:19
2	Y_RL	27252.0	27252.0			16:01:02
2	Cr 267.716	13960.7	13816.9	0.386 mg/L	0.386 mg/L	16:01:20
3	Y_XL	744684.6	744684.6			16:01:29
3	Y_RL	26931.6	26931.6			16:01:03
3	Cr 267.716	11153.5	11009.7	0.306 mg/L	0.306 mg/L	16:01:31

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Mean Data: 2702HNO3/HCl (3:1) m2 d10

Analyte	Intensity Mean Corrected	Conc. Units Calib.	Std.Dev.	Conc. Units Sample	Std.Dev.	RSD
Y_XL	735189.9				8506.74	1.16%
Y_RL	27228.8				286.32	1.05%
Cr 267.716	13366.4	0.334 mg/L	0.0141	0.334 mg/L	0.0141	4.94%