

MDLWATER-ISM02.4-2018

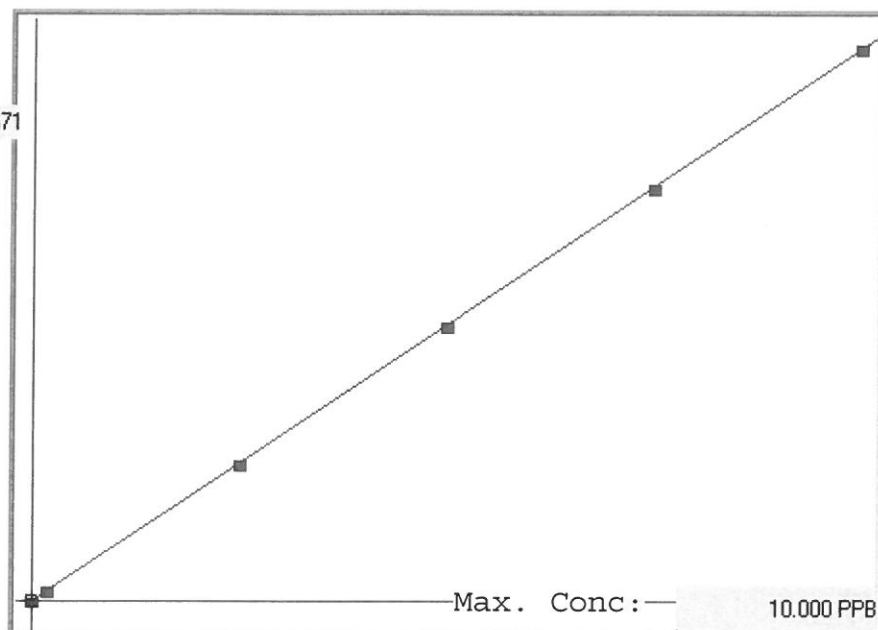
ISM02.4

INSTRUMENT ID: CV1

Linear

μ Abs.:

38671



A= 0.0000e+000

B= 2.5900e-004

C= 5.5810e-003

Rho= 0.9999923

Accept=Accepted

*5 slope
15 intercept*

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.00	0.000	-0.002	-0.002	-31	0.000	-31					1
0.2	0.200	0.213	0.013	799	0.0 %	799					6
2.5	2.500	2.502	0.002	9640	0.0 %	9640					0
5.0	5.000	4.988	-0.012	19237	0.0 %	19237					0
7.5	7.500	7.478	-0.022	28851	0.0 %	28851					0
10.0	10.000	10.021	0.021	38671	0.0 %	38671					0

11/22/17

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INSTRUMENT ID : CV1

Sample ID	Extended ID	μ Abs.	Conc.	Std Conc	Method	Units	Date	Type
	0 S0.0	-31	-		0 ISM02.4	PPB	11/22/2017 15:38	Std
	0.2 S0.2	799	-		0.2 ISM02.4	PPB	11/22/2017 15:40	Std
	2.5 S2.5	9640	-		2.5 ISM02.4	PPB	11/22/2017 15:43	Std
	5 S5	19237	-		5 ISM02.4	PPB	11/22/2017 15:45	Std
	7.5 S7.5	28851	-		7.5 ISM02.4	PPB	11/22/2017 15:47	Std
	10 S10	38671	-		10 ISM02.4	PPB	11/22/2017 15:50	Std
ICV	ICV	14000	3.6316 -		ISM02.4	PPB	11/22/2017 15:52	SMPL
ICB	ICB	-188	-0.0431 -		ISM02.4	PPB	11/22/2017 15:54	SMPL
CCV084	CCV084	19287	5.001 -		ISM02.4	PPB	11/22/2017 15:57	SMPL
CCB084	CCB084	-184	-0.0421 -		ISM02.4	PPB	11/22/2017 15:59	SMPL
PBW	PBW003	-46	-0.0063 -		ISM02.4	PPB	11/22/2017 16:01	SMPL
MDL1	MDL1	165	0.0483 -		ISM02.4	PPB	11/22/2017 16:04	SMPL
MDL2	MDL2	182	0.0527 -		ISM02.4	PPB	11/22/2017 16:06	SMPL
MDL3	MDL3	172	0.0501 -		ISM02.4	PPB	11/22/2017 16:08	SMPL
MDL4	MDL4	183	0.053 -		ISM02.4	PPB	11/22/2017 16:10	SMPL
MDL5	MDL5	266	0.0745 -		ISM02.4	PPB	11/22/2017 16:13	SMPL
MDL6	MDL6	184	0.0532 -		ISM02.4	PPB	11/22/2017 16:17	SMPL
MDL7	MDL7	185	0.0535 -		ISM02.4	PPB	11/22/2017 16:20	SMPL
CCV085	CCV085	19047	4.9388 -		ISM02.4	PPB	11/22/2017 16:22	SMPL
CCB085	CCB085	-171	-0.0387 -		ISM02.4	PPB	11/22/2017 16:24	SMPL

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Method Detection Limit (MDL) Determination

Parameter(s):
Analysis Method:
Prep Method:

HG ISM02.4
ISM02.4
7470A

Matrix:
Instrument:
Analyst:

WATER
CV1
MOHAN

Replicates	5	6	7	8
t value	3.747	3.365	3.143	2.998

Analytes	Units: ug/L								Blank Result ug/L	Spike Amount ug/L	t value	Raw MDL ug/L	Calculated MDL ug/L
	Replicate Number												
	1	2	3	4	5	6	7	8					
Hg	0.04830	0.05270	0.05010	0.05300	0.07450	0.05320	0.05350			0.05000	3.14300	0.0276	0.0276
Replicate ID:	MDL 1	MDL 2	MDL 3	MDL 4	MDL 5	MDL 6	MDL 7	MDL 8					
Determination Date:	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017					
Preparation Date:	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017					

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Analytes	Average Measured Value ug/L	Average Recovery (%R)	Standard Deviation ug/L	Spike Level Check (low) (<MDL)	Spike Level Check (high) (>10 X MDL)	Spike Level Check (high) (>5 X MDL)	Raw MDL ug/L	Calculated MDL ug/L
Hg	0.05504	110.08571	0.00879	Acceptable	Acceptable	Acceptable	0.0276	0.0276

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900

METALS PREPARATION WORKSHEETMethod# ISM02.4 Project#: MDL Hot plate temp: 95 °CInitial Volume/Weight 100 (g/mL)Balance Check: (0.20g): - Final Volume 100 mLIN: 10:50 TO 12:50
Digestion date: 11/22/17Analyst Signature: MB Supervisor Signature: [Signature] Date 11/22/17

Standard Name	mL used	STD REF# from Log	CHEMICAL USED	mL used	LOT#
ICV	100 mL	MP42940	H ₂ SO ₄ : HNO ₃ (2:1)	5 mL	MP42589
CCV	100 mL	MP42942	KMnO ₄	15 mL	MP42884
			K ₂ S ₂ O ₈	8 mL	MP42885
			NaCl-NH ₄ OH HCl	6 mL	MP42886

Lab Sample Number	Client Sample Number	Matrix Water, soil, leachate	Sample WT. (g) Vol. (mL)	Comments
BLANK 0.0 ppb	50.0	WATER	100 mL	MP42934
STD 0.2 ppb	50.2	WATER	100 mL	MP42935
STD 2.5 ppb	52.5	WATER	100 mL	MP42936
STD 5.0 ppb	55.0	WATER	100 mL	MP42937
STD 7.5 ppb	57.5	WATER	100 mL	MP42938
STD 10.0 ppb	510.0	WATER	100 mL	MP42939
ICV	ICV	WATER	100 mL	MP42940
ICB	ICB	WATER	100 mL	MP42941
CCV	CCV	WATER	100 mL	MP42942
CCB	CCB	WATER	100 mL	MP42943
PBW	PBW003	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL1	MDL1	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL2	MDL2	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL3	MDL3	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL4	MDL4	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL5	MDL5	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL6	MDL6	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask
MDL7	MDL7	WATER	100 mL	0.05 mL of MP42933 in 250 mL flask