

Microwave-Assisted Rapid Extraction of Chlorinated Solvents from Low Permeability Rock Samples

Yongdong Liu ¹, Maria Górecka ², Jonathan Kennel ², Merrik Kobarfard ², Tadeusz Górecki ^{1,*} and Beth Parker ²

¹ Department of Chemistry, University of Waterloo, 200 University Avenue West, Waterloo, ON N2L 3G1, Canada

² Morwick G360 Groundwater Research Institute, College of Engineering, University of Guelph, Guelph, ON N1G 2W1, Canada; kobarfaa@uoguelph.ca (M.K.)

* Correspondence: tgorecki@uwaterloo.ca

Table S1. TCE determination results for split samples, processed by MAE and the shake-flask extraction method.

Well ID	Sample Elevation (masl)	Shake-flask extraction (µg/g wet rock)	MAE (µg/g wet rock)
MW-22	317.42	Detected, <MQL	Detected, <MQL
MW-22	317.56	Detected, <MQL	5.7E-03
MW-22	317.70	Detected, <MQL	Detected, <MQL
MW-22	317.99	Detected, <MQL	Detected, <MQL
MW-22	318.20	Detected, <MQL	Detected, <MQL
MW-22	318.40	4.7E-04	Detected, <MQL
MW-22	318.67	Detected, <MQL	Detected, <MQL
MW-22	318.79	2.4E-03	Detected, <MQL
MW-22	319.27	Detected, <MQL	Detected, <MQL
MW-22	319.52	Detected, <MQL	Detected, <MQL
MW-22	319.71	Detected, <MQL	Detected, <MQL
MW-22	320.19	5.9E-04	Detected, <MQL
MW-22	320.52	5.1E-04	Detected, <MQL
MW-22	320.62	Detected, <MQL	Detected, <MQL
MW-22	320.79	Detected, <MQL	Detected, <MQL
MW-22	320.94	4.9E-03	Detected, <MQL
MW-22	321.27	7.2E-04	6.7E-04
MW-22	321.47	3.4E-03	3.6E-03
MW-22	321.82	Detected, <MQL	Detected, <MQL
MW-22	322.16	6.0E-04	Detected, <MQL
MW-22	322.58	5.0E-03	Detected, <MQL
MW-22	322.82	3.0E-03	2.7E-03
MW-22	322.96	5.1E-03	4.9E-03
MW-22	323.24	2.3E-03	2.8E-03

MW-22	323.41	1.3E-02	1.5E-02
MW-22	323.62	4.6E-04	Detected, <MQL
MW-22	323.75	1.4E-03	1.2E-03
MW-22	323.89	2.1E-03	2.1E-03
MW-22	324.12	1.8E-03	2.1E-03
MW-22	324.55	1.4E-02	1.9E-02
MW-22	325.13	4.1E-03	7.6E-03
MW-22	325.56	7.3E-04	1.0E-03
MW-22	325.68	4.9E-04	1.1E-03
MW-22	325.82	6.2E-04	1.2E-03
MW-22	325.97	3.1E-03	3.7E-03
MW-22	326.23	3.4E-03	6.5E-03
MW-22	326.82	5.7E-04	1.0E-03
MW-22	326.99	1.1E-03	1.5E-03
MW-22	327.25	1.0E-03	1.0E-03
MW-22	327.41	5.4E-03	7.0E-03
MW-22	327.54	8.5E-04	1.2E-03
MW-22	327.92	8.5E-04	1.1E-03
MW-22	328.11	1.1E-03	9.1E-04
MW-22	328.48	1.8E-03	2.4E-03
MW-22	328.80	5.6E-04	1.5E-03
MW-22	328.93	1.1E-03	1.6E-03
MW-22	329.11	1.4E-03	4.7E-03
MW-22	329.38	2.9E-03	4.9E-03
MW-22	329.59	8.0E-04	1.6E-03
MW-22	329.74	1.4E-02	1.5E-02
MW-22	329.94	5.0E-03	1.2E-02
MW-22	330.06	3.4E-02	4.1E-02
MW-22	330.29	1.6E-03	5.0E-03
MW-22	330.44	7.9E-03	1.1E-02
MW-22	331.24	2.9E-03	9.4E-03
MW-22	331.37	4.6E-03	1.6E-02
MW-22	331.69	8.7E-03	1.4E-02
MW-22	332.12	3.8E-03	1.4E-02
MW-22	332.30	7.5E-03	1.4E-02
MW-22	332.98	7.5E-03	2.2E-02
MW-22	333.30	4.6E-03	9.9E-03
MW-22	333.45	9.9E-04	2.0E-03

MW-22	333.60	7.4E-04	2.0E-03
MW-22	334.29	3.5E-03	7.8E-03
MW-22	334.91	5.5E-03	1.6E-02
MW-22	335.21	3.6E-03	6.4E-03
MW-22	335.30	3.9E-03	6.6E-03
MW-22	335.75	2.1E-03	5.1E-03
MW-22	335.93	5.9E-03	1.1E-02
MW-22	336.33	3.7E-03	6.7E-03
MW-22	336.67	1.3E-03	3.0E-03
MW-22	337.24	6.9E-03	<MDL
MW-22	337.47	8.2E-03	<MDL
MW-23	301.23	Detected, <MQL	Detected, <MQL
MW-23	301.36	Detected, <MQL	<MDL
MW-23	301.93	Detected, <MQL	Detected, <MQL
MW-23	302.14	Detected, <MQL	<MDL
MW-23	302.39	Detected, <MQL	<MDL
MW-23	302.77	Detected, <MQL	<MDL
MW-23	302.92	Detected, <MQL	<MDL
MW-23	303.11	Detected, <MQL	<MDL
MW-23	304.20	Detected, <MQL	<MDL
MW-23	304.32	Detected, <MQL	<MDL
MW-23	304.81	Detected, <MQL	<MDL
MW-23	304.91	<MDL	<MDL
MW-23	305.27	Detected, <MQL	<MDL
MW-23	305.60	<MDL	<MDL
MW-23	305.85	<MDL	<MDL
MW-23	306.03	<MDL	<MDL
MW-23	306.56	1.1E-03	<MDL
MW-23	306.68	Detected, <MQL	8.4E-04
MW-23	306.80	<MDL	<MDL
MW-23	306.87	<MDL	<MDL
MW-23	307.01	<MDL	<MDL
MW-23	307.57	<MDL	<MDL
MW-23	307.70	Detected, <MQL	<MDL
MW-23	308.30	<MDL	<MDL
MW-23	308.40	<MDL	<MDL
MW-23	308.54	<MDL	<MDL
MW-23	308.85	<MDL	<MDL

MW-23	309.01	<MDL	<MDL
MW-23	309.24	<MDL	<MDL
MW-23	309.74	<MDL	<MDL
MW-23	309.93	Detected, <MQL	<MDL
MW-23	309.98	<MDL	<MDL
MW-23	310.36	<MDL	<MDL
MW-23	310.71	Detected, <MQL	<MDL
MW-23	311.15	<MDL	<MDL
MW-23	311.24	<MDL	<MDL
MW-23	311.38	<MDL	<MDL
MW-23	311.91	<MDL	<MDL
MW-23	312.09	<MDL	<MDL
MW-23	312.18	<MDL	<MDL
MW-23	312.32	<MDL	<MDL
MW-23	312.45	<MDL	<MDL
MW-23	312.60	<MDL	<MDL
MW-23	313.58	<MDL	<MDL
MW-23	313.68	<MDL	<MDL
MW-23	313.81	<MDL	Detected, <MQL
MW-23	313.93	<MDL	Detected, <MQL
MW-23	314.23	9.6E-04	Detected, <MQL
MW-23	314.41	8.4E-04	Detected, <MQL
MW-23	314.55	6.4E-04	Detected, <MQL
MW-23	315.00	6.5E-04	Detected, <MQL
MW-23	315.61	1.1E-03	Detected, <MQL
MW-23	315.71	1.3E-03	8.3E-04
MW-23	315.79	1.2E-03	8.2E-04
MW-23	315.92	1.3E-03	Detected, <MQL
MW-23	316.76	Detected, <MQL	<MDL
MW-23	316.95	7.1E-04	Detected, <MQL
MW-23	317.03	1.2E-03	<MDL
MW-23	317.29	1.2E-03	<MDL
MW-23	317.35	9.7E-04	<MDL
MW-23	317.42	8.7E-04	<MDL
MW-23	317.84	8.1E-04	<MDL
MW-23	318.04	9.1E-04	<MDL
MW-23	318.78	1.4E-03	<MDL
MW-23	318.84	1.0E-03	<MDL

MW-23	318.96	8.7E-04	<MDL
MW-23	319.60	8.4E-04	<MDL
MW-23	319.78	6.6E-04	1.0E-03
MW-23	320.03	1.0E-03	6.6E-04
MW-23	320.20	9.7E-04	1.1E-03
MW-23	320.51	6.8E-04	<MDL
MW-23	320.63	6.8E-04	<MDL
MW-23	321.08	8.0E-04	<MDL
MW-23	321.17	1.2E-03	<MDL
MW-23	321.57	6.9E-04	<MDL
MW-23	321.99	1.3E-03	<MDL
MW-23	322.78	7.9E-04	<MDL
MW-23	323.12	6.4E-04	<MDL
MW-23	323.53	1.1E-03	<MDL
MW-23	323.64	8.5E-04	<MDL
MW-23	323.97	9.1E-04	<MDL
MW-23	324.10	7.7E-04	<MDL
MW-23	324.84	2.4E-03	<MDL
MW-23	324.96	7.1E-03	<MDL
MW-23	325.07	2.5E-03	<MDL
MW-23	325.72	9.7E-04	<MDL
MW-23	326.08	8.6E-04	<MDL
MW-23	326.19	9.9E-04	6.8E-04
MW-23	326.79	9.8E-04	Detected, <MQL
MW-23	327.32	8.1E-04	<MDL
MW-23	327.46	1.0E-03	Detected, <MQL
MW-23	327.66	9.5E-04	Detected, <MQL
MW-23	327.80	6.3E-04	<MDL
MW-23	327.93	1.0E-03	<MDL
MW-23	328.66	8.3E-04	Detected, <MQL
MW-23	328.80	9.7E-04	<MDL
MW-23	328.94	9.3E-04	<MDL
MW-23	329.11	1.4E-03	<MDL
MW-23	329.59	8.4E-04	<MDL
MW-23	329.69	1.3E-03	<MDL
MW-23	329.79	8.4E-04	<MDL
MW-23	329.97	1.0E-03	<MDL
MW-23	330.53	9.3E-04	<MDL

MW-23	330.65	7.7E-04	<MDL
MW-23	330.87	1.0E-03	<MDL
MW-23	331.12	1.1E-03	<MDL
MW-23	331.25	7.6E-04	<MDL
MW-23	331.56	8.5E-04	<MDL
MW-23	331.68	1.1E-03	<MDL
MW-23	331.83	7.0E-04	Detected, <MQL
MW-23	332.34	6.0E-04	<MDL
MW-23	332.50	1.0E-03	<MDL
MW-23	332.89	9.0E-04	Detected, <MQL
MW-23	333.34	7.5E-04	<MDL
MW-23	333.46	9.9E-04	1.2E-03
MW-23	333.62	8.0E-04	<MDL
MW-23	333.86	8.5E-04	<MDL
MW-23	334.08	1.6E-03	<MDL
MW-23	334.63	9.0E-04	<MDL
MW-23	335.10	1.3E-03	<MDL
MW-23	335.26	3.2E-03	Detected, <MQL
MW-23	335.47	8.9E-03	1.7E-02
MW-23	335.71	6.1E-03	6.5E-03
MW-23	335.92	5.5E-03	6.3E-03
MW-23	336.17	1.0E-03	1.6E-03
MW-23	336.54	1.9E-03	2.0E-03
MW-23	336.90	Detected, <MQL	<MDL
MW-23	337.24	Detected, <MQL	<MDL
MW-23	337.41	Detected, <MQL	Detected, <MQL
MW-23	337.59	Detected, <MQL	Detected, <MQL
MW-367-4	307.08	Detected, <MQL	Detected, <MQL
MW-367-4	307.24	<MDL	Detected, <MQL
MW-367-4	307.54	<MDL	Detected, <MQL
MW-367-4	307.79	<MDL	Detected, <MQL
MW-367-4	307.96	Detected, <MQL	Detected, <MQL
MW-367-4	308.07	Detected, <MQL	Detected, <MQL
MW-367-4	308.94	<MDL	Detected, <MQL
MW-367-4	309.20	Detected, <MQL	Detected, <MQL
MW-367-4	309.44	Detected, <MQL	Detected, <MQL
MW-367-4	309.55	Detected, <MQL	Detected, <MQL
MW-367-4	309.69	<MDL	Detected, <MQL

MW-367-4	309.92	<MDL	Detected, <MQL
MW-367-4	310.12	Detected, <MQL	Detected, <MQL
MW-367-4	310.27	<MDL	<MDL
MW-367-4	310.43	<MDL	Detected, <MQL
MW-367-4	310.56	<MDL	Detected, <MQL
MW-367-4	310.72	<MDL	Detected, <MQL
MW-367-4	310.91	<MDL	Detected, <MQL
MW-367-4	311.07	<MDL	Detected, <MQL
MW-367-4	311.54	<MDL	Detected, <MQL
MW-367-4	311.75	Detected, <MQL	Detected, <MQL
MW-367-4	311.93	<MDL	Detected, <MQL
MW-367-4	312.04	<MDL	Detected, <MQL
MW-367-4	312.18	Detected, <MQL	Detected, <MQL
MW-367-4	312.31	Detected, <MQL	Detected, <MQL
MW-367-4	312.45	Detected, <MQL	Detected, <MQL
MW-367-4	312.77	Detected, <MQL	Detected, <MQL
MW-367-4	312.92	Detected, <MQL	Detected, <MQL
MW-367-4	313.21	Detected, <MQL	Detected, <MQL
MW-367-4	313.26	4.4E-04	Detected, <MQL
MW-367-4	314.00	6.5E-04	Detected, <MQL
MW-367-4	314.03	Detected, <MQL	Detected, <MQL
MW-367-4	314.06	Detected, <MQL	Detected, <MQL
MW-367-4	314.28	Detected, <MQL	Detected, <MQL
MW-367-4	314.56	Detected, <MQL	Detected, <MQL
MW-367-4	314.71	Detected, <MQL	Detected, <MQL
MW-367-4	315.02	Detected, <MQL	Detected, <MQL
MW-367-4	315.19	Detected, <MQL	Detected, <MQL
MW-367-4	315.39	Detected, <MQL	Detected, <MQL
MW-367-4	315.74	<MDL	Detected, <MQL
MW-367-4	315.95	Detected, <MQL	Detected, <MQL
MW-367-4	316.28	Detected, <MQL	Detected, <MQL
MW-367-4	316.41	Detected, <MQL	Detected, <MQL
MW-367-4	316.67	Detected, <MQL	Detected, <MQL
MW-367-4	316.82	Detected, <MQL	Detected, <MQL
MW-367-4	317.01	Detected, <MQL	Detected, <MQL
MW-367-4	317.26	Detected, <MQL	Detected, <MQL
MW-367-4	317.36	Detected, <MQL	Detected, <MQL
MW-367-4	317.59	Detected, <MQL	Detected, <MQL

MW-367-4	317.70	Detected, <MQL	Detected, <MQL
MW-367-4	318.15	Detected, <MQL	Detected, <MQL
MW-367-4	318.33	1.1E-04	Detected, <MQL
MW-367-4	318.50	Detected, <MQL	Detected, <MQL
MW-367-4	318.62	Detected, <MQL	Detected, <MQL
MW-367-4	318.77	Detected, <MQL	Detected, <MQL
MW-367-4	318.89	Detected, <MQL	Detected, <MQL
MW-367-4	319.17	4.9E-04	Detected, <MQL
MW-367-4	319.32	7.1E-04	6.5E-04
MW-367-4	319.49	Detected, <MQL	Detected, <MQL
MW-367-4	319.64	Detected, <MQL	Detected, <MQL
MW-367-4	319.87	Detected, <MQL	Detected, <MQL
MW-367-4	320.04	Detected, <MQL	Detected, <MQL
MW-367-4	320.37	Detected, <MQL	Detected, <MQL
MW-367-4	320.61	Detected, <MQL	Detected, <MQL
MW-367-4	320.98	Detected, <MQL	Detected, <MQL
MW-367-4	321.16	Detected, <MQL	Detected, <MQL
MW-367-4	321.44	Detected, <MQL	Detected, <MQL
MW-367-4	321.68	Detected, <MQL	Detected, <MQL
MW-367-4	322.24	Detected, <MQL	Detected, <MQL
MW-367-4	322.51	Detected, <MQL	2.6E-03
MW-367-4	322.72	<MDL	Detected, <MQL
MW-367-4	322.88	Detected, <MQL	Detected, <MQL
MW-367-4	323.04	Detected, <MQL	Detected, <MQL
MW-367-4	323.20	Detected, <MQL	Detected, <MQL
MW-367-4	323.64	Detected, <MQL	Detected, <MQL
MW-367-4	323.78	Detected, <MQL	Detected, <MQL
MW-367-4	323.89	8.7E-04	Detected, <MQL
MW-367-4	324.27	Detected, <MQL	Detected, <MQL
MW-367-4	324.38	Detected, <MQL	Detected, <MQL
MW-367-4	324.62	6.7E-04	1.1E-03
MW-367-4	324.85	3.1E-03	3.5E-03
MW-367-4	325.34	Detected, <MQL	Detected, <MQL
MW-367-4	325.65	1.5E-03	2.3E-03
MW-367-4	325.80	5.6E-04	1.2E-03
MW-367-4	325.96	1.6E-03	2.5E-03
MW-367-4	326.40	2.2E-03	3.6E-03
MW-367-4	326.73	4.7E-03	1.3E-02

MW-367-4	326.93	3.0E-03	4.4E-03
MW-367-4	327.24	1.9E-03	3.1E-03
MW-367-4	327.46	1.4E-03	1.8E-03
MW-367-4	327.54	1.2E-03	2.3E-03
MW-367-4	328.55	7.1E-04	1.1E-03
MW-367-4	328.69	1.1E-03	2.0E-03
MW-367-4	328.83	5.3E-04	1.6E-03
MW-367-4	329.11	5.6E-04	7.3E-04
MW-367-4	329.39	Detected, <MQL	Detected, <MQL
MW-367-4	329.85	1.1E-03	2.0E-03
MW-367-4	330.04	1.9E-03	3.8E-03
MW-367-4	330.19	1.3E-03	2.8E-03
MW-367-4	330.54	6.5E-04	2.3E-03
MW-367-4	330.73	7.3E-04	1.6E-03
MW-367-4	330.96	1.0E-03	2.2E-03
MW-367-4	331.24	1.3E-03	1.6E-03
MW-367-4	331.48	Detected, <MQL	1.4E-03
MW-367-4	331.70	9.8E-04	2.4E-03
MW-367-4	331.82	7.3E-04	2.5E-03
MW-367-4	332.00	1.0E-03	2.4E-03
MW-367-4	332.18	9.2E-04	2.2E-03
MW-367-4	332.31	1.5E-03	4.2E-03
MW-367-4	332.56	9.5E-04	3.2E-03
MW-367-4	332.99	Detected, <MQL	1.5E-03
MW-367-4	333.24	Detected, <MQL	Detected, <MQL
MW-367-4	333.52	Detected, <MQL	Detected, <MQL
MW-367-4	333.66	<MDL	Detected, <MQL
MW-367-4	333.86	1.2E-03	1.6E-03
MW-367-4	334.12	4.2E-03	8.6E-03
MW-367-4	334.35	3.0E-03	5.9E-03
MW-367-4	334.66	2.7E-03	4.9E-03
MW-367-4	334.93	1.2E-02	2.1E-02
MW-367-4	335.11	8.9E-02	1.3E-01
MW-367-4	335.39	2.2E-03	4.3E-03
MW-367-4	336.05	1.6E-03	2.8E-03
MW-367-4	336.36	3.1E-03	7.3E-03
MW-367-4	336.54	6.8E-03	1.1E-02
MW-367-4	336.99	1.8E-03	4.3E-03

MW-367-4	337.74	9.8E-04	Detected, <MQL
MW-367-5	307.48	<MDL	Detected, <MQL
MW-367-5	307.63	Detected, <MQL	Detected, <MQL
MW-367-5	307.83	Detected, <MQL	Detected, <MQL
MW-367-5	308.03	Detected, <MQL	Detected, <MQL
MW-367-5	308.23	<MDL	Detected, <MQL
MW-367-5	308.49	<MDL	Detected, <MQL
MW-367-5	308.61	<MDL	Detected, <MQL
MW-367-5	308.71	<MDL	Detected, <MQL
MW-367-5	309.29	<MDL	Detected, <MQL
MW-367-5	309.41	Detected, <MQL	Detected, <MQL
MW-367-5	309.52	<MDL	Detected, <MQL
MW-367-5	309.71	<MDL	Detected, <MQL
MW-367-5	309.89	Detected, <MQL	Detected, <MQL
MW-367-5	311.04	Detected, <MQL	Detected, <MQL
MW-367-5	311.26	Detected, <MQL	Detected, <MQL
MW-367-5	311.37	<MDL	Detected, <MQL
MW-367-5	311.46	Detected, <MQL	Detected, <MQL
MW-367-5	311.63	Detected, <MQL	Detected, <MQL
MW-367-5	312.04	4.9E-04	Detected, <MQL
MW-367-5	312.29	Detected, <MQL	Detected, <MQL
MW-367-5	312.48	<MDL	Detected, <MQL
MW-367-5	312.69	8.1E-04	9.7E-04
MW-367-5	313.05	Detected, <MQL	Detected, <MQL
MW-367-5	313.66	Detected, <MQL	Detected, <MQL
MW-367-5	314.21	Detected, <MQL	Detected, <MQL
MW-367-5	314.33	<MDL	Detected, <MQL
MW-367-5	314.45	Detected, <MQL	Detected, <MQL
MW-367-5	314.58	Detected, <MQL	Detected, <MQL
MW-367-5	314.70	Detected, <MQL	Detected, <MQL
MW-367-5	315.26	<MDL	Detected, <MQL
MW-367-5	315.40	Detected, <MQL	Detected, <MQL
MW-367-5	315.78	2.3E-03	3.2E-03
MW-367-5	315.93	1.6E-03	2.0E-03
MW-367-5	316.13	1.4E-03	1.4E-03
MW-367-5	316.73	7.2E-04	7.7E-04
MW-367-5	316.82	Detected, <MQL	Detected, <MQL
MW-367-5	317.25	Detected, <MQL	Detected, <MQL

MW-367-5	317.37	4.5E-04	Detected, <MQL
MW-367-5	317.77	Detected, <MQL	Detected, <MQL
MW-367-5	318.36	Detected, <MQL	Detected, <MQL
MW-367-5	318.61	Detected, <MQL	Detected, <MQL
MW-367-5	318.70	<MDL	Detected, <MQL
MW-367-5	318.90	Detected, <MQL	Detected, <MQL
MW-367-5	319.25	1.5E-03	2.0E-03
MW-367-5	319.80	2.9E-03	4.3E-03
MW-367-5	319.95	1.9E-03	3.0E-03
MW-367-5	320.08	1.3E-03	1.1E-03
MW-367-5	320.30	7.9E-04	9.5E-04
MW-367-5	320.63	1.4E-03	1.7E-03
MW-367-5	321.44	Detected, <MQL	Detected, <MQL
MW-367-5	321.54	Detected, <MQL	Detected, <MQL
MW-367-5	321.62	Detected, <MQL	Detected, <MQL
MW-367-5	321.90	Detected, <MQL	Detected, <MQL
MW-367-5	322.30	4.7E-02	5.4E-02
MW-367-5	322.77	Detected, <MQL	Detected, <MQL
MW-367-5	322.92	7.4E-02	8.3E-02
MW-367-5	323.48	4.7E-02	5.1E-02
MW-367-5	323.61	4.8E-03	6.6E-03
MW-367-5	323.73	2.0E-02	3.0E-02
MW-367-5	324.31	Detected, <MQL	Detected, <MQL
MW-367-5	324.45	Detected, <MQL	7.1E-04
MW-367-5	324.74	5.3E-04	9.1E-04
MW-367-5	324.84	Detected, <MQL	Detected, <MQL
MW-367-5	325.41	4.9E-04	7.9E-04
MW-367-5	325.73	2.2E-02	2.0E-02
MW-367-5	325.93	1.9E-02	1.7E-02
MW-367-5	326.12	9.5E-03	1.2E-02
MW-367-5	326.64	4.1E-03	4.8E-03
MW-367-5	327.25	1.6E-02	1.5E-02
MW-367-5	327.36	1.5E-02	1.5E-02
MW-367-5	327.74	1.4E-02	1.6E-02
MW-367-5	327.96	3.9E-03	5.0E-03
MW-367-5	328.16	1.4E-02	1.3E-02
MW-367-5	328.80	9.0E-03	9.7E-03
MW-367-5	329.15	1.8E-02	1.2E-02

MW-367-5	329.52	4.8E-03	6.3E-03
MW-367-5	329.75	4.8E-03	5.8E-03
MW-367-5	330.47	7.0E-03	7.6E-03
MW-367-5	330.93	2.2E-03	1.2E-03
MW-367-5	331.03	2.0E-03	2.8E-03
MW-367-5	331.12	1.9E-03	2.3E-03
MW-367-5	331.33	6.7E-04	8.8E-04
MW-367-5	331.46	7.9E-04	9.4E-04
MW-367-5	331.57	5.5E-04	8.1E-04
MW-367-5	332.14	2.6E-03	3.7E-03
MW-367-5	332.30	2.3E-03	2.5E-03
MW-367-5	332.43	1.8E-03	2.4E-03
MW-367-5	332.67	1.7E-03	1.7E-03
MW-367-5	332.84	Detected, <MQL	2.5E-03
MW-367-5	333.03	1.3E-03	1.6E-03
MW-367-5	333.31	3.5E-03	4.6E-03
MW-367-5	333.60	3.6E-03	5.9E-03
MW-367-5	333.91	1.4E-03	2.0E-03
MW-367-5	334.06	1.2E-03	1.9E-03
MW-367-5	334.49	2.5E-03	3.1E-03
MW-367-5	335.03	1.8E-03	2.0E-03
MW-367-5	335.38	1.4E-03	2.1E-03
MW-367-5	335.99	1.2E-02	1.7E-02
MW-367-5	336.49	1.8E-03	6.9E-04
MW-367-5	337.14	6.1E-04	1.6E-03
MW-367-5	337.57	Detected, <MQL	Detected, <MQL
MW-367-5	337.84	5.2E-04	Detected, <MQL