

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051832.D
 Acq On : 12 Oct 2018 15:01
 Operator : MD\SY
 Sample : J5164-07 2.5ppb
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:57 AM

Quant Time: Oct 13 03:25:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	127184	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	715417	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	590545	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	239205	30.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.03%
60) 4-Bromofluorobenzene	12.40	95	219383	25.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.87%
63) Toluene-d8	10.09	98	818336	31.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.37%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	13573	2.75	ug/l	100
3) Chloromethane	2.06	50	15091	2.89	ug/l	94
4) Vinyl Chloride	2.18	62	21902	2.81	ug/l	94
5) Bromomethane	2.57	94	25493	3.70	ug/l	88
6) Chloroethane	2.70	64	16339	2.91	ug/l	98
7) Trichlorofluoromethane	3.01	101	28393	2.55	ug/l	99
8) Diethyl Ether	3.42	74	8838	2.73	ug/l	73
9) 1,1,2-Trichlorotrifluoroet	3.76	101	18173	2.87	ug/l #	43
10) 1,1-Dichloroethene	3.75	96	16288m	2.78	ug/l	
11) Methyl Iodide	3.96	142	16521	1.94	ug/l	97
12) Methyl Acetate	4.33	43	11488	3.16	ug/l	96
13) Acrolein	3.61	56	4542	18.96	ug/l	90
14) Acrylonitrile	5.00	53	19206	11.82	ug/l #	41
15) Acetone	3.82	58	5388m	13.41	ug/l	
16) Carbon Disulfide	4.05	76	38286	2.49	ug/l	96
17) Allyl chloride	4.33	41	17626	2.54	ug/l	79
18) Methylene Chloride	4.55	84	18232	2.78	ug/l #	84
19) trans-1,2-Dichloroethene	5.04	96	18087m	2.71	ug/l	
20) Diisopropyl ether	5.96	45	40885	2.64	ug/l #	83
21) 1,1-Dichloroethane	5.86	63	29209m	2.70	ug/l	
22) cis-1,2-Dichloroethene	6.84	96	21124m	2.69	ug/l	
23) tert-Butyl Alcohol	4.79	59	5972m	13.95	ug/l	
24) Methyl tert-Butyl Ether	5.05	73	46259	2.74	ug/l #	95
25) Chloroform	7.37	83	34169	2.66	ug/l	86
26) Cyclohexane	7.65	56	23913	2.61	ug/l #	70
29) 1,1-Dichloropropene	7.80	75	23958	2.60	ug/l	96
30) 2-Butanone	6.84	43	23514m	12.20	ug/l	
31) 2,2-Dichloropropane	6.82	77	25974m	2.39	ug/l	
32) 1,1,1-Trichloroethane	7.57	97	32292	2.64	ug/l	94
33) Carbon Tetrachloride	7.78	117	26820	2.42	ug/l	89
34) Benzene	8.05	78	71213	2.61	ug/l #	80
35) Methacrylonitrile	7.21	41	9005m	3.56	ug/l	
36) 1,2-Dichloroethane	8.13	62	24062	2.75	ug/l #	94
37) Trichloroethene	8.84	130	21474	2.54	ug/l	99
38) Methylcyclohexane	9.09	83	29876	2.53	ug/l	79
39) 1,2-Dichloropropane	9.12	63	16922	2.63	ug/l	99
40) Dibromomethane	9.21	93	13142	2.76	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	24123	2.45	ug/l #	98
42) Vinyl Acetate	5.90	43	133143	12.27	ug/l #	92
43) Ethyl Acetate	6.95	43	6967	1.66	ug/l	97
44) Isopropyl Acetate	8.17	43	20683	2.47	ug/l #	89
45) 1,4-Dioxane	9.21	88	3921m	58.41	ug/l	
46) Methyl methacrylate	9.20	41	10534	2.73	ug/l	76
47) n-amyl Acetate	12.08	43	12173	1.74	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	19950	2.08	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	23889	2.26	ug/l	92
50) 1,1,2-Trichloroethane	10.56	97	16184	2.46	ug/l	94
51) Ethyl methacrylate	10.43	69	16925	2.24	ug/l	81
52) 1,3-Dichloropropane	10.71	76	25359	2.49	ug/l	97
53) Dibromochloromethane	10.90	129	16292	2.00	ug/l	99
54) 1,2-Dibromoethane	11.01	107	15208	2.20	ug/l	93
55) 2-Chloroethyl vinyl ether	9.70	63	37125	11.51	ug/l #	94
56) Bromoform	12.13	173	8864	1.65	ug/l #	92
58) 4-Methyl-2-Pentanone	9.99	43	55421	14.02	ug/l #	87
59) 2-Hexanone	10.75	43	30961m	11.61	ug/l	
61) Tetrachloroethene	10.63	164	20539	2.72	ug/l	98
62) Toluene	10.16	91	80677	2.75	ug/l	99
64) Chlorobenzene	11.44	112	50494	2.63	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.51	131	18137	2.46	ug/l	98
66) Ethyl Benzene	11.51	91	82920	2.56	ug/l	99
67) m/p-Xylenes	11.62	106	61779	4.70	ug/l	97
68) o-Xylene	11.95	106	31620	2.44	ug/l	97
69) Styrene	11.97	104	42796	2.15	ug/l	99
70) Isopropylbenzene	12.25	105	83763	2.42	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	17245	2.53	ug/l	93
72) 1,2,3-Trichloropropane	12.55	75	14415m	2.68	ug/l	
73) Bromobenzene	12.53	156	18761	2.19	ug/l	89
74) n-propylbenzene	12.59	91	83202	2.24	ug/l	99
75) 2-Chlorotoluene	12.67	91	52022	2.39	ug/l	95
76) 1,3,5-Trimethylbenzene	12.73	105	65887	2.31	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	2954	1.66	ug/l	92
78) 4-Chlorotoluene	12.77	91	43357	2.02	ug/l	94
79) tert-butylbenzene	12.99	119	61455	2.34	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	60840	2.13	ug/l	97
81) sec-Butylbenzene	13.17	105	76178	2.22	ug/l	97
82) p-Isopropyltoluene	13.29	119	60872	1.98	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	27177	1.80	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	24152	1.70	ug/l	94
85) n-Butylbenzene	13.62	91	35314	1.52	ug/l	95
86) Hexachloroethane	13.88	117	10451	1.97	ug/l	84
87) 1,2-Dichlorobenzene	13.65	146	29052	1.99	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2110	2.07	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	7516	8.51	ug/l	98
90) Hexachlorobutadiene	15.01	225	10625	2.25	ug/l	97
91) Naphthalene	15.14	128	19298	9.50	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	9586m	1.44	ug/l	

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

