

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056687.D
 Acq On : 12 Jul 2019 14:02
 Operator : JC/SP
 Sample : K3591-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:38 AM

Quant Time: Jul 13 00:29:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53104	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	287305	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	240489	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110453	30.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.37%
60) 4-Bromofluorobenzene	12.40	95	97394	26.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.20%
63) Toluene-d8	10.09	98	345191	31.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	5542	1.837 ug/l	97
3) Chloromethane	2.06	50	9655	2.392 ug/l	99
4) Vinyl Chloride	2.19	62	9334	2.351 ug/l	100
5) Bromomethane	2.55	94	6430	2.570 ug/l	83
6) Chloroethane	2.70	64	5478	2.415 ug/l #	86
7) Trichlorofluoromethane	3.01	101	12079	2.373 ug/l	93
8) Diethyl Ether	3.41	74	5203	2.499 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.75	101	7649	2.409 ug/l	98
10) 1,1-Dichloroethene	3.73	96	7549	2.410 ug/l	92
11) Methyl Iodide	3.95	142	7686	1.847 ug/l	93
12) Methyl Acetate	4.33	43	15107	3.603 ug/l	95
13) Acrolein	3.61	56	4655	15.748 ug/l	99
14) Acrylonitrile	5.00	53	21843	11.827 ug/l #	62
15) Acetone	3.83	58	6780m	10.635 ug/l	
16) Carbon Disulfide	4.05	76	18325	2.218 ug/l	96
17) Allyl chloride	4.32	41	12861	2.347 ug/l	98
18) Methylene Chloride	4.56	84	9449m	2.570 ug/l	
19) trans-1,2-Dichloroethene	5.04	96	8167m	2.436 ug/l	
20) Diisopropyl ether	5.95	45	26317	2.411 ug/l #	89
21) 1,1-Dichloroethane	5.85	63	15860	2.543 ug/l	97
22) cis-1,2-Dichloroethene	6.83	96	9777	2.494 ug/l #	87
23) tert-Butyl Alcohol	4.79	59	8341	12.947 ug/l #	62
24) Methyl tert-Butyl Ether	5.04	73	23743m	2.377 ug/l	
25) Chloroform	7.37	83	16203	2.666 ug/l	98
26) Cyclohexane	7.65	56	13659	2.356 ug/l #	94
29) 1,1-Dichloropropene	7.79	75	10532	2.306 ug/l	99
30) 2-Butanone	6.84	43	29550	11.176 ug/l #	76
31) 2,2-Dichloropropane	6.82	77	10144	2.295 ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	11668	2.397 ug/l #	85
33) Carbon Tetrachloride	7.77	117	9203	2.197 ug/l	88
34) Benzene	8.04	78	35776	2.550 ug/l #	37
35) Methacrylonitrile	7.18	41	3523m	1.744 ug/l	
36) 1,2-Dichloroethane	8.13	62	11746	2.606 ug/l #	87
37) Trichloroethene	8.84	130	9196	2.413 ug/l	96
38) Methylcyclohexane	9.08	83	13316	2.308 ug/l	97
39) 1,2-Dichloropropane	9.12	63	9461	2.512 ug/l	97
40) Dibromomethane	9.21	93	5914	2.465 ug/l	100

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

41) Bromodichloromethane	9.40	83	10046	2.272	ug/l	96
42) Vinyl Acetate	5.90	43	93391	10.612	ug/l	98
43) Ethyl Acetate	6.93	43	10322	2.160	ug/l #	78
44) Isopropyl Acetate	8.17	43	17323	2.324	ug/l	97
45) 1,4-Dioxane	9.20	88	4030	53.451	ug/l	98
46) Methyl methacrylate	9.20	41	8527	2.382	ug/l	94
47) n-amyl Acetate	12.07	43	10924	1.792	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	9742	2.003	ug/l	89
49) cis-1,3-Dichloropropene	9.84	75	11339	2.067	ug/l	93
50) 1,1,2-Trichloroethane	10.56	97	9001	2.575	ug/l	89
51) Ethyl methacrylate	10.43	69	11402	2.121	ug/l	96
52) 1,3-Dichloropropane	10.71	76	14863	2.541	ug/l	100
53) Dibromochloromethane	10.90	129	7516	2.128	ug/l	96
54) 1,2-Dibromoethane	11.00	107	8811	2.426	ug/l	95
55) 2-Chloroethyl vinyl ether	9.70	63	26577	10.223	ug/l	98
56) Bromoform	12.12	173	5382	2.058	ug/l #	90
58) 4-Methyl-2-Pentanone	9.99	43	59819	13.216	ug/l	97
59) 2-Hexanone	10.75	43	40223	11.707	ug/l	98
61) Tetrachloroethene	10.63	164	9728	2.815	ug/l	94
62) Toluene	10.15	91	37636	2.664	ug/l	98
64) Chlorobenzene	11.43	112	22066	2.561	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	7781	2.464	ug/l	99
66) Ethyl Benzene	11.51	91	36877	2.415	ug/l	99
67) m/p-Xylenes	11.62	106	26450	4.590	ug/l	100
68) o-Xylene	11.95	106	13886	2.471	ug/l	93
69) Styrene	11.96	104	19420	2.085	ug/l	96
70) Isopropylbenzene	12.25	105	34677	2.354	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	12730	2.662	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	11188m	2.738	ug/l	
73) Bromobenzene	12.53	156	8692	2.258	ug/l	95
74) n-propylbenzene	12.59	91	36201	2.178	ug/l	99
75) 2-Chlorotoluene	12.67	91	23785	2.376	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	27797	2.212	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	2272	1.672	ug/l	80
78) 4-Chlorotoluene	12.77	91	19175	1.975	ug/l	100
79) tert-butylbenzene	12.99	119	25276	2.365	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	27221	2.184	ug/l	95
81) sec-Butylbenzene	13.17	105	30359	2.146	ug/l	99
82) p-Isopropyltoluene	13.29	119	27178	2.112	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	11875	1.851	ug/l	95
84) 1,4-Dichlorobenzene	13.36	146	10827	1.760	ug/l	95
85) n-Butylbenzene	13.61	91	17648	1.663	ug/l	98
86) Hexachloroethane	13.87	117	4047	2.005	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	13539	2.100	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1729	2.096	ug/l	86
89) 1,2,4-Trichlorobenzene	14.91	180	4455	1.285	ug/l	92
90) Hexachlorobutadiene	15.01	225	5287	2.345	ug/l	96
91) Naphthalene	15.13	128	10722	1.149	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	5570	1.532	ug/l	97

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

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