

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052219.D
 Acq On : 8 Nov 2018 13:18
 Operator : MD\SY
 Sample : VN1108WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1108WBS02

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:49:17 AM

Quant Time: Nov 08 13:48:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	63595	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	372700	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	339042	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	134960	28.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.30%
60) 4-Bromofluorobenzene	12.40	95	148837	27.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.47%
63) Toluene-d8	10.09	98	468601	29.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	87289	20.551	ug/l 99
3) Chloromethane	2.06	50	99052	20.405	ug/l 98
4) Vinyl Chloride	2.19	62	94410	19.826	ug/l 95
5) Bromomethane	2.58	94	62819	19.326	ug/l 94
6) Chloroethane	2.71	64	56797	18.653	ug/l 96
7) Trichlorofluoromethane	3.02	101	130489	20.235	ug/l 97
8) Diethyl Ether	3.41	74	41934	19.259	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	79681	21.141	ug/l 94
10) 1,1-Dichloroethene	3.74	96	70048	19.918	ug/l 99
11) Methyl Iodide	3.96	142	103313	20.318	ug/l 97
12) Methyl Acetate	4.33	43	55885	18.879	ug/l 94
13) Acrolein	3.61	56	23682	75.426	ug/l 98
14) Acrylonitrile	4.99	53	117544	89.542	ug/l 89
15) Acetone	3.82	58	30389m	97.948	ug/l
16) Carbon Disulfide	4.06	76	195405	18.818	ug/l 99
17) Allyl chloride	4.33	41	109916	18.408	ug/l 99
18) Methylene Chloride	4.55	84	83185	19.163	ug/l 91
19) trans-1,2-Dichloroethene	5.04	96	75942	19.708	ug/l 95
20) Diisopropyl ether	5.95	45	263185	20.283	ug/l 97
21) 1,1-Dichloroethane	5.85	63	142541	18.798	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	89095	19.801	ug/l 99
23) tert-Butyl Alcohol	4.77	59	18129m	88.637	ug/l
24) Methyl tert-Butyl Ether	5.05	73	191160	19.173	ug/l # 75
25) Chloroform	7.37	83	147901	19.425	ug/l 97
26) Cyclohexane	7.65	56	136123	20.025	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	112884	19.077	ug/l 95
30) 2-Butanone	6.83	43	143060	90.786	ug/l # 73
31) 2,2-Dichloropropane	6.82	77	113559	18.631	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	127156	19.206	ug/l 97
33) Carbon Tetrachloride	7.78	117	112319	19.076	ug/l 98
34) Benzene	8.04	78	340921	19.677	ug/l 98
35) Methacrylonitrile	7.20	41	52675m	24.371	ug/l
36) 1,2-Dichloroethane	8.12	62	107085	18.486	ug/l 99
37) Trichloroethene	8.83	130	86922	20.045	ug/l 85
38) Methylcyclohexane	9.08	83	140188	19.421	ug/l 97
39) 1,2-Dichloropropane	9.12	63	91091	19.751	ug/l 98
40) Dibromomethane	9.20	93	53616	18.860	ug/l 95

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

41) Bromodichloromethane	9.40	83	109900	18.895	ug/l	94
42) Vinyl Acetate	5.90	43	865722	93.845	ug/l	100
43) Ethyl Acetate	6.83	43	143060	18.065	ug/l #	86
44) Isopropyl Acetate	8.16	43	118230	18.032	ug/l	99
45) 1,4-Dioxane	9.19	88	9993	334.094	ug/l #	71
46) Methyl methacrylate	9.20	41	60229	18.454	ug/l	95
47) n-amyl Acetate	12.07	43	103310	17.383	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	107799	18.664	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	127700	19.156	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	72128	19.187	ug/l	96
51) Ethyl methacrylate	10.43	69	87716	18.055	ug/l	96
52) 1,3-Dichloropropane	10.71	76	125653	19.190	ug/l	98
53) Dibromochloromethane	10.90	129	79149	19.503	ug/l	98
54) 1,2-Dibromoethane	11.00	107	71084	18.648	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	248690	93.478	ug/l	100
56) Bromoform	12.13	173	43563	18.585	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	319394	87.914	ug/l	99
59) 2-Hexanone	10.75	43	218280	87.261	ug/l	98
61) Tetrachloroethene	10.63	164	78765	21.361	ug/l	95
62) Toluene	10.16	91	371937	19.542	ug/l	98
64) Chlorobenzene	11.43	112	229680	19.041	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	80733	19.665	ug/l	99
66) Ethyl Benzene	11.51	91	397740	19.347	ug/l	97
67) m/p-Xylenes	11.62	106	312417	39.472	ug/l	94
68) o-Xylene	11.95	106	148581	19.690	ug/l	94
69) Styrene	11.96	104	236557	19.454	ug/l	97
70) Isopropylbenzene	12.25	105	402319	19.860	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	79785	17.906	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	60997m	15.570	ug/l	
73) Bromobenzene	12.53	156	90652	20.196	ug/l	89
74) n-propylbenzene	12.59	91	459691	19.487	ug/l	100
75) 2-Chlorotoluene	12.67	91	259748	19.099	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	314310	19.350	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	20438	16.673	ug/l	96
78) 4-Chlorotoluene	12.77	91	262534	19.169	ug/l	97
79) tert-butylbenzene	12.99	119	281798	19.915	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	314895	19.459	ug/l	98
81) sec-Butylbenzene	13.17	105	383760	19.707	ug/l	98
82) p-Isopropyltoluene	13.29	119	327391	19.895	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	161421	20.331	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	155369	19.767	ug/l	97
85) n-Butylbenzene	13.61	91	270149	18.967	ug/l	99
86) Hexachloroethane	13.87	117	52155	18.781	ug/l	90
87) 1,2-Dichlorobenzene	13.65	146	150448	19.944	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10655	17.488	ug/l	89
89) 1,2,4-Trichlorobenzene	14.91	180	63249	20.655	ug/l	98
90) Hexachlorobutadiene	15.01	225	37620	22.456	ug/l	100
91) Naphthalene	15.13	128	140215	19.866	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	58268	21.833	ug/l	99

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

