

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052220.D
 Acq On : 8 Nov 2018 13:45
 Operator : MD\SY
 Sample : VN1108WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1108WBSD02

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:49:22 AM

Quant Time: Nov 08 14:08:22 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	63654	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	375970	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	335239	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	137133	29.03	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.77%
60) 4-Bromofluorobenzene	12.40	95	149495	27.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.93%
63) Toluene-d8	10.09	98	471452	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	85359	20.078	ug/l 98
3) Chloromethane	2.06	50	95193	19.591	ug/l 97
4) Vinyl Chloride	2.19	62	89860	18.853	ug/l 95
5) Bromomethane	2.58	94	61388	18.869	ug/l 92
6) Chloroethane	2.71	64	55681	18.270	ug/l 95
7) Trichlorofluoromethane	3.02	101	129160	20.010	ug/l 95
8) Diethyl Ether	3.41	74	44864	20.586	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	77411	20.520	ug/l 86
10) 1,1-Dichloroethene	3.74	96	70951	20.156	ug/l 86
11) Methyl Iodide	3.96	142	104322	20.497	ug/l 94
12) Methyl Acetate	4.33	43	65181	21.999	ug/l 100
13) Acrolein	3.61	56	27373	87.101	ug/l 99
14) Acrylonitrile	4.99	53	138099	105.103	ug/l # 88
15) Acetone	3.82	58	33438	107.676	ug/l 99
16) Carbon Disulfide	4.06	76	189650	18.247	ug/l 99
17) Allyl chloride	4.33	41	109317	18.290	ug/l 95
18) Methylene Chloride	4.55	84	81294	18.710	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	74392	19.288	ug/l 91
20) Diisopropyl ether	5.95	45	259179	19.956	ug/l 97
21) 1,1-Dichloroethane	5.86	63	145881	19.220	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	86578	19.223	ug/l 97
23) tert-Butyl Alcohol	4.79	59	23603m	115.294	ug/l
24) Methyl tert-Butyl Ether	5.05	73	199448	19.986	ug/l 99
25) Chloroform	7.37	83	147153	19.309	ug/l 96
26) Cyclohexane	7.65	56	130905	19.240	ug/l # 96
29) 1,1-Dichloropropene	7.80	75	108217	18.130	ug/l 97
30) 2-Butanone	6.84	43	170162	107.046	ug/l # 78
31) 2,2-Dichloropropane	6.83	77	110986	18.050	ug/l 96
32) 1,1,1-Trichloroethane	7.57	97	126564	18.951	ug/l 96
33) Carbon Tetrachloride	7.78	117	111269	18.733	ug/l 98
34) Benzene	8.04	78	324845	18.586	ug/l 99
35) Methacrylonitrile	7.20	41	57107m	26.192	ug/l
36) 1,2-Dichloroethane	8.13	62	108011	18.483	ug/l 96
37) Trichloroethene	8.83	130	85725	19.597	ug/l 87
38) Methylcyclohexane	9.08	83	130426	17.912	ug/l 99
39) 1,2-Dichloropropane	9.12	63	87981	18.911	ug/l 93
40) Dibromomethane	9.21	93	53749	18.743	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	111510	19.005	ug/l	98
42) Vinyl Acetate	5.90	43	904916	97.241	ug/l #	77
43) Ethyl Acetate	6.84	43	170162	21.300	ug/l #	86
44) Isopropyl Acetate	8.17	43	135104	20.426	ug/l	97
45) 1,4-Dioxane	9.20	88	13506	447.616	ug/l #	81
46) Methyl methacrylate	9.20	41	68147	20.698	ug/l	96
47) n-amyl Acetate	12.07	43	115048	19.189	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	105477	18.103	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	124879	18.570	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	74057	19.529	ug/l	97
51) Ethyl methacrylate	10.43	69	93343	19.046	ug/l	95
52) 1,3-Dichloropropane	10.71	76	128383	19.436	ug/l	96
53) Dibromochloromethane	10.90	129	80025	19.547	ug/l	98
54) 1,2-Dibromoethane	11.01	107	75265	19.573	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	268715	100.127	ug/l	99
56) Bromoform	12.13	173	45798	19.369	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	372908	103.809	ug/l	99
59) 2-Hexanone	10.75	43	250721	101.367	ug/l	99
61) Tetrachloroethene	10.63	164	74145	20.336	ug/l	92
62) Toluene	10.16	91	361644	19.217	ug/l	98
64) Chlorobenzene	11.43	112	227354	19.062	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	80526	19.837	ug/l	99
66) Ethyl Benzene	11.51	91	376398	18.516	ug/l	100
67) m/p-Xylenes	11.62	106	290874	37.167	ug/l	96
68) o-Xylene	11.95	106	140958	18.892	ug/l	96
69) Styrene	11.96	104	222470	18.503	ug/l	97
70) Isopropylbenzene	12.25	105	382102	19.076	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	90436	20.527	ug/l	94
72) 1,2,3-Trichloropropane	12.55	75	71361m	18.422	ug/l	
73) Bromobenzene	12.53	156	87603	19.738	ug/l	89
74) n-propylbenzene	12.59	91	426032	18.265	ug/l	98
75) 2-Chlorotoluene	12.67	91	250746	18.646	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	297660	18.533	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	19885	16.406	ug/l	97
78) 4-Chlorotoluene	12.77	91	250499	18.498	ug/l	96
79) tert-butylbenzene	12.99	119	263764	18.852	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	304132	19.007	ug/l	98
81) sec-Butylbenzene	13.17	105	359099	18.650	ug/l	99
82) p-Isopropyltoluene	13.29	119	305491	18.774	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	155472	19.804	ug/l	95
84) 1,4-Dichlorobenzene	13.36	146	151895	19.545	ug/l	94
85) n-Butylbenzene	13.61	91	251545	17.861	ug/l	99
86) Hexachloroethane	13.87	117	49075	17.872	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	148710	19.937	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12603	20.920	ug/l #	87
89) 1,2,4-Trichlorobenzene	14.91	180	64987	21.464	ug/l	98
90) Hexachlorobutadiene	15.01	225	36943	22.302	ug/l	98
91) Naphthalene	15.13	128	154360	22.118	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	60695	23.001	ug/l	100

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

