

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110118\
 Data File : VN052113.D
 Acq On : 1 Nov 2018 19:49
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/2/2018 9:21:45 AM

Quant Time: Nov 02 07:42:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 01 10:27:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	57314	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	340435	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	298462	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	135533	31.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.20%
60) 4-Bromofluorobenzene	12.40	95	142121	29.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.23%
63) Toluene-d8	10.09	98	425342	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	73219	19.128	ug/l 98
3) Chloromethane	2.06	50	87014	19.889	ug/l 95
4) Vinyl Chloride	2.19	62	87903	20.482	ug/l 96
5) Bromomethane	2.57	94	57277	19.552	ug/l 85
6) Chloroethane	2.71	64	54073	19.705	ug/l 93
7) Trichlorofluoromethane	3.02	101	113100	19.461	ug/l 96
8) Diethyl Ether	3.42	74	39799	20.282	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	66470	19.569	ug/l # 50
10) 1,1-Dichloroethene	3.74	96	63246	19.954	ug/l 97
11) Methyl Iodide	3.96	142	83096	18.133	ug/l 86
12) Methyl Acetate	4.33	43	60859	22.103	ug/l 95
13) Acrolein	3.61	56	32344	113.019	ug/l 86
14) Acrylonitrile	4.99	53	124162	104.950	ug/l # 76
15) Acetone	3.82	58	28086	100.446	ug/l 81
16) Carbon Disulfide	4.06	76	167798	17.930	ug/l 99
17) Allyl chloride	4.33	41	105637	19.630	ug/l 92
18) Methylene Chloride	4.55	84	74034	18.924	ug/l 92
19) trans-1,2-Dichloroethene	5.05	96	69033	19.879	ug/l 95
20) Diisopropyl ether	5.96	45	235042	20.088	ug/l 88
21) 1,1-Dichloroethane	5.85	63	131814	19.288	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	82631	20.376	ug/l 92
23) tert-Butyl Alcohol	4.78	59	24456m	131.024	ug/l
24) Methyl tert-Butyl Ether	5.05	73	184865	20.574	ug/l # 56
25) Chloroform	7.37	83	136749	19.928	ug/l 96
26) Cyclohexane	7.66	56	116142	18.958	ug/l # 91
29) 1,1-Dichloropropene	7.80	75	102344	18.935	ug/l 97
30) 2-Butanone	6.84	43	147732	102.637	ug/l # 98
31) 2,2-Dichloropropane	6.83	77	86606	15.547	ug/l # 82
32) 1,1,1-Trichloroethane	7.57	97	117234	19.386	ug/l 98
33) Carbon Tetrachloride	7.78	117	95532	17.763	ug/l 95
34) Benzene	8.04	78	308872	19.517	ug/l # 71
35) Methacrylonitrile	7.18	41	37809	12.519	ug/l 96
36) 1,2-Dichloroethane	8.13	62	102706	19.410	ug/l 100
37) Trichloroethene	8.84	130	73665	18.598	ug/l 95
38) Methylcyclohexane	9.09	83	116242	17.630	ug/l 92
39) 1,2-Dichloropropane	9.12	63	80504	19.110	ug/l 96
40) Dibromomethane	9.21	93	51294	19.754	ug/l 87

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

41) Bromodichloromethane	9.40	83	99104	18.653	ug/l #	93
42) Vinyl Acetate	5.90	43	840479	99.744	ug/l	99
43) Ethyl Acetate	6.84	43	150047m	13.977	ug/l	
44) Isopropyl Acetate	8.17	43	130334	21.762	ug/l	98
45) 1,4-Dioxane	9.21	88	12216	447.123	ug/l	90
46) Methyl methacrylate	9.20	41	61511	20.633	ug/l	94
48) t-1,3-Dichloropropene	10.38	75	98025	18.580	ug/l	94
49) cis-1,3-Dichloropropene	9.84	75	112332	18.448	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	66161	19.268	ug/l #	89
51) Ethyl methacrylate	10.43	69	87694	19.761	ug/l	93
52) 1,3-Dichloropropane	10.71	76	121023	20.234	ug/l	95
53) Dibromochloromethane	10.90	129	67157	18.116	ug/l	97
54) 1,2-Dibromoethane	11.01	107	68719	19.736	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	253939	104.498	ug/l	99
56) Bromoform	12.13	173	36929	17.248	ug/l #	89
58) 4-Methyl-2-Pentanone	9.99	43	347823	108.757	ug/l	99
59) 2-Hexanone	10.75	43	232971	105.797	ug/l	99
61) Tetrachloroethene	10.63	164	59764	18.412	ug/l #	88
62) Toluene	10.16	91	332051	19.819	ug/l	98
64) Chlorobenzene	11.44	112	205081	19.313	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	68441	18.937	ug/l	97
66) Ethyl Benzene	11.51	91	344543	19.038	ug/l	98
67) m/p-Xylenes	11.62	106	265329	38.081	ug/l	97
68) o-Xylene	11.95	106	128382	19.326	ug/l	97
69) Styrene	11.97	104	205216	19.171	ug/l	98
70) Isopropylbenzene	12.25	105	338318	18.972	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	84333	21.500	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	77983m	24.202	ug/l	
73) Bromobenzene	12.53	156	76242	19.295	ug/l	88
74) n-propylbenzene	12.59	91	386812	18.627	ug/l	99
75) 2-Chlorotoluene	12.68	91	229366	19.158	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	267667	18.719	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	18101	16.774	ug/l	88
78) 4-Chlorotoluene	12.77	91	228409	18.945	ug/l	98
79) tert-butylbenzene	12.99	119	236110	18.955	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	275390	19.332	ug/l	100
81) sec-Butylbenzene	13.17	105	314534	18.349	ug/l	99
82) p-Isopropyltoluene	13.29	119	262207	18.100	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	130780	18.711	ug/l	94
84) 1,4-Dichlorobenzene	13.36	146	126357	18.262	ug/l	94
85) n-Butylbenzene	13.62	91	214984	17.146	ug/l	97
86) Hexachloroethane	13.88	117	42443	17.361	ug/l	72
87) 1,2-Dichlorobenzene	13.65	146	123416	18.585	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11880	22.150	ug/l	88
89) 1,2,4-Trichlorobenzene	14.91	180	47914	19.191	ug/l	96
90) Hexachlorobutadiene	15.01	225	24737	16.773	ug/l	96
91) Naphthalene	15.13	128	122837	20.884	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	41910	17.839	ug/l	93

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

