

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051486.D
 Acq On : 25 Sep 2018 15:44
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:21:34 AM

Quant Time: Sep 26 03:35:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	100421	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	521105	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	452974	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	211511	30.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.00%
60) 4-Bromofluorobenzene	12.40	95	203179	30.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.83%
63) Toluene-d8	10.09	98	655939	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	74245	17.263	ug/l 98
3) Chloromethane	2.06	50	145572	19.686	ug/l 96
4) Vinyl Chloride	2.18	62	150742	19.104	ug/l 99
5) Bromomethane	2.57	94	104419	20.248	ug/l 90
6) Chloroethane	2.70	64	100897	20.745	ug/l 97
7) Trichlorofluoromethane	3.02	101	192751	18.820	ug/l 92
8) Diethyl Ether	3.41	74	69586	22.598	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	106551	20.487	ug/l # 41
10) 1,1-Dichloroethene	3.74	96	99689	21.043	ug/l 99
11) Methyl Iodide	3.95	142	142406	20.385	ug/l 98
12) Methyl Acetate	4.33	43	99273	23.841	ug/l # 89
13) Acrolein	3.61	56	66208	119.245	ug/l 88
14) Acrylonitrile	4.99	53	194481	114.981	ug/l # 60
15) Acetone	3.82	58	46782	112.300	ug/l 86
16) Carbon Disulfide	4.05	76	294561	19.603	ug/l 97
17) Allyl chloride	4.33	41	178543	21.349	ug/l 97
18) Methylene Chloride	4.55	84	127323	22.504	ug/l 92
19) trans-1,2-Dichloroethene	5.05	96	109023	21.259	ug/l 97
20) Diisopropyl ether	5.96	45	396068	23.852	ug/l # 85
21) 1,1-Dichloroethane	5.85	63	223371	22.332	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	128137	22.329	ug/l 95
23) tert-Butyl Alcohol	4.79	59	38785	121.767	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	296917	23.012	ug/l # 61
25) Chloroform	7.37	83	224599	22.513	ug/l 95
26) Cyclohexane	7.65	56	175327	20.589	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	156340	21.308	ug/l 99
30) 2-Butanone	6.84	43	220171	116.169	ug/l # 97
31) 2,2-Dichloropropane	6.83	77	167745	21.433	ug/l # 80
32) 1,1,1-Trichloroethane	7.57	97	183860	21.950	ug/l 99
33) Carbon Tetrachloride	7.78	117	165712	21.561	ug/l 94
34) Benzene	8.04	78	493863	22.671	ug/l # 69
35) Methacrylonitrile	7.18	41	46087	16.874	ug/l 90
36) 1,2-Dichloroethane	8.13	62	164782	23.231	ug/l 97
37) Trichloroethene	8.84	130	124680	21.595	ug/l 99
38) Methylcyclohexane	9.08	83	172902	20.328	ug/l 94
39) 1,2-Dichloropropane	9.12	63	139025	23.460	ug/l 96
40) Dibromomethane	9.21	93	78865	23.382	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	169146	22.810	ug/l	96
42) Vinyl Acetate	5.90	43	1263378	119.879	ug/l	99
43) Ethyl Acetate	6.93	43	105840	26.839	ug/l #	85
44) Isopropyl Acetate	8.17	43	183889	24.246	ug/l	99
45) 1,4-Dioxane	9.20	88	22934	497.037	ug/l	90
46) Methyl methacrylate	9.20	41	89937	23.946	ug/l	94
47) n-amyl Acetate	12.07	43	130305	21.500	ug/l #	71
48) t-1,3-Dichloropropene	10.38	75	163436	22.195	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	195879	22.981	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	113893	23.617	ug/l	93
51) Ethyl methacrylate	10.43	69	129252	22.646	ug/l	97
52) 1,3-Dichloropropane	10.71	76	191576	23.547	ug/l	96
53) Dibromochloromethane	10.90	129	127649	23.012	ug/l	95
54) 1,2-Dibromoethane	11.01	107	106711	22.933	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	328847	116.683	ug/l	100
56) Bromoform	12.13	173	82858	22.156	ug/l	95
58) 4-Methyl-2-Pentanone	9.99	43	502650	126.267	ug/l	96
59) 2-Hexanone	10.75	43	306086	116.825	ug/l	97
61) Tetrachloroethene	10.63	164	118549	22.495	ug/l	96
62) Toluene	10.16	91	517374	22.311	ug/l	99
64) Chlorobenzene	11.43	112	318427	22.397	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	124847	22.713	ug/l	99
66) Ethyl Benzene	11.51	91	517820	21.645	ug/l	97
67) m/p-Xylenes	11.62	106	401504	43.596	ug/l	97
68) o-Xylene	11.95	106	195068	22.239	ug/l	95
69) Styrene	11.96	104	305176	22.025	ug/l	99
70) Isopropylbenzene	12.25	105	517372	22.039	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	133176	24.100	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	118616m	27.220	ug/l	
73) Bromobenzene	12.53	156	128663	21.747	ug/l	97
74) n-propylbenzene	12.59	91	575883	21.101	ug/l	98
75) 2-Chlorotoluene	12.67	91	357219	22.179	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	431469	22.275	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	32312	21.501	ug/l	92
78) 4-Chlorotoluene	12.77	91	347331	21.743	ug/l	98
79) tert-butylbenzene	12.99	119	366245	21.716	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	435532	22.366	ug/l	99
81) sec-Butylbenzene	13.17	105	500488	21.573	ug/l	99
82) p-Isopropyltoluene	13.29	119	430080	21.475	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	222163	21.409	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	206548	21.193	ug/l	97
85) n-Butylbenzene	13.62	91	323811	19.693	ug/l	98
86) Hexachloroethane	13.87	117	84785	21.127	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	220321	22.396	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18853	23.116	ug/l #	93
89) 1,2,4-Trichlorobenzene	14.91	180	94450	19.275	ug/l	97
90) Hexachlorobutadiene	15.01	225	81977	21.586	ug/l	96
91) Naphthalene	15.13	128	163423	17.675	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	96868	19.583	ug/l	95

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

