

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054976.D
 Acq On : 11 Apr 2019 14:26
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:02 PM

Quant Time: Apr 12 07:47:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:37:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	71772	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	389759	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	343421	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	165548	32.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.27%
60) 4-Bromofluorobenzene	12.40	95	147212	28.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.93%
63) Toluene-d8	10.09	98	499875	30.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	23330	6.475 ug/l	98
3) Chloromethane	2.06	50	31872	6.683 ug/l	93
4) Vinyl Chloride	2.19	62	27574	5.829 ug/l	96
5) Bromomethane	2.56	94	16201	5.600 ug/l	89
6) Chloroethane	2.71	64	15729	5.680 ug/l	93
7) Trichlorofluoromethane	3.02	101	34444	5.971 ug/l	97
8) Diethyl Ether	3.41	74	10641	5.005 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	19584	5.327 ug/l	97
10) 1,1-Dichloroethene	3.73	96	18523	5.406 ug/l	92
11) Methyl Iodide	3.94	142	24197	4.804 ug/l	90
12) Methyl Acetate	4.33	43	18363	6.235 ug/l	100
13) Acrolein	3.60	56	9395	33.265 ug/l	88
14) Acrylonitrile	5.00	53	38950	28.110 ug/l	96
15) Acetone	3.82	58	10269	25.596 ug/l	77
16) Carbon Disulfide	4.04	76	53572	4.844 ug/l	100
17) Allyl chloride	4.32	41	38106	6.206 ug/l	95
18) Methylene Chloride	4.55	84	27339	6.794 ug/l	95
19) trans-1,2-Dichloroethene	5.03	96	20974	5.595 ug/l #	87
20) Diisopropyl ether	5.95	45	80087m	6.492 ug/l	
21) 1,1-Dichloroethane	5.85	63	44510m	6.118 ug/l	
22) cis-1,2-Dichloroethene	6.83	96	25554	6.103 ug/l	96
23) tert-Butyl Alcohol	4.81	59	6164m	25.211 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	50810	5.474 ug/l	99
25) Chloroform	7.37	83	42434	6.051 ug/l	96
26) Cyclohexane	7.65	56	40763	6.190 ug/l #	99
29) 1,1-Dichloropropene	7.79	75	29995	5.607 ug/l	96
30) 2-Butanone	6.85	43	46047	27.311 ug/l #	98
31) 2,2-Dichloropropane	6.82	77	27914	5.314 ug/l #	100
32) 1,1,1-Trichloroethane	7.56	97	32845	5.709 ug/l	100
33) Carbon Tetrachloride	7.77	117	29046	5.715 ug/l	91
34) Benzene	8.04	78	93848	5.904 ug/l #	69
35) Methacrylonitrile	7.17	41	10124	5.263 ug/l	95
36) 1,2-Dichloroethane	8.12	62	33237	6.439 ug/l	100
37) Trichloroethene	8.83	130	24289	5.835 ug/l	93
38) Methylcyclohexane	9.08	83	36865	5.846 ug/l	98
39) 1,2-Dichloropropane	9.12	63	25490	5.830 ug/l	98
40) Dibromomethane	9.21	93	15017	6.010 ug/l	97

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

41) Bromodichloromethane	9.40	83	28601	5.421	ug/l	97
42) Vinyl Acetate	5.90	43	232716	26.972	ug/l	100
43) Ethyl Acetate	6.94	43	20464	5.812	ug/l #	77
44) Isopropyl Acetate	8.17	43	32041	5.221	ug/l	95
45) 1,4-Dioxane	9.20	88	3737	114.551	ug/l #	86
46) Methyl methacrylate	9.20	41	15591	5.279	ug/l	92
47) n-amyl Acetate	12.07	43	18658	4.210	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	22257	4.282	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	29733	4.834	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	19570	5.605	ug/l	94
51) Ethyl methacrylate	10.43	69	20454	4.977	ug/l	95
52) 1,3-Dichloropropane	10.71	76	32710	5.473	ug/l	99
53) Dibromochloromethane	10.90	129	17813	4.701	ug/l	97
54) 1,2-Dibromoethane	11.00	107	17123	5.206	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	37479	19.834	ug/l	100
56) Bromoform	12.12	173	10808	4.340	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	90353	26.983	ug/l	98
59) 2-Hexanone	10.75	43	54593	24.945	ug/l	99
61) Tetrachloroethene	10.63	164	24315	5.765	ug/l	97
62) Toluene	10.15	91	99151	5.886	ug/l	100
64) Chlorobenzene	11.43	112	56949	5.541	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	19705	5.252	ug/l	95
66) Ethyl Benzene	11.51	91	102142	5.802	ug/l	99
67) m/p-Xylenes	11.62	106	73540	11.146	ug/l	99
68) o-Xylene	11.94	106	37126	5.782	ug/l	95
69) Styrene	11.96	104	54988	5.466	ug/l	99
70) Isopropylbenzene	12.25	105	99721	5.914	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	22761	5.510	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	18834m	5.969	ug/l	
73) Bromobenzene	12.52	156	22373	5.296	ug/l	98
74) n-propylbenzene	12.59	91	103373	5.177	ug/l	100
75) 2-Chlorotoluene	12.67	91	65698	5.598	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	79217	5.574	ug/l	99
77) t-1,4-Dichloro-2-butene	12.29	75	3677	3.430	ug/l	93
78) 4-Chlorotoluene	12.77	91	56542	4.855	ug/l	99
79) tert-butylbenzene	12.99	119	68512	5.489	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	73972	5.264	ug/l	99
81) sec-Butylbenzene	13.17	105	89372	5.243	ug/l	99
82) p-Isopropyltoluene	13.29	119	72772	5.017	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	33434	4.527	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	30202	4.293	ug/l	99
85) n-Butylbenzene	13.61	91	50722	4.086	ug/l	99
86) Hexachloroethane	13.87	117	11034	4.088	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	33827	4.719	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2381	4.081	ug/l	87
89) 1,2,4-Trichlorobenzene	14.91	180	9687	2.762	ug/l	96
90) Hexachlorobutadiene	15.01	225	12768	4.815	ug/l	95
91) Naphthalene	15.13	128	19772	2.841	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.31	180	11434	3.270	ug/l	98

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

