

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055723.D
 Acq On : 22 May 2019 16:57
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:49 PM

Quant Time: May 23 05:40:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59214	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	315145	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	266511	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	114044	25.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	84.23%
60) 4-Bromofluorobenzene	12.40	95	115537	28.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.57%
63) Toluene-d8	10.09	98	376556	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	15169	4.883	ug/l 97
3) Chloromethane	2.06	50	20212	4.603	ug/l 99
4) Vinyl Chloride	2.19	62	19922	5.371	ug/l 99
5) Bromomethane	2.53	94	11876	5.618	ug/l 96
6) Chloroethane	2.68	64	11951	5.692	ug/l 92
7) Trichlorofluoromethane	3.00	101	25165	4.763	ug/l 97
8) Diethyl Ether	3.40	74	10826	4.935	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	15790	4.699	ug/l 99
10) 1,1-Dichloroethene	3.72	96	16497	5.150	ug/l 97
11) Methyl Iodide	3.94	142	20050	4.053	ug/l 98
12) Methyl Acetate	4.33	43	23118	5.166	ug/l 97
13) Acrolein	3.60	56	15641	57.677	ug/l 97
14) Acrylonitrile	4.99	53	43691	26.150	ug/l 99
15) Acetone	3.82	58	15026	35.022	ug/l 91
16) Carbon Disulfide	4.04	76	46024	5.188	ug/l 99
17) Allyl chloride	4.31	41	29109	4.325	ug/l 97
18) Methylene Chloride	4.54	84	18812	4.824	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	17453	5.015	ug/l 96
20) Diisopropyl ether	5.95	45	56459	4.212	ug/l 99
21) 1,1-Dichloroethane	5.84	63	31665	4.463	ug/l 97
22) cis-1,2-Dichloroethene	6.82	96	20027	4.937	ug/l 98
23) tert-Butyl Alcohol	4.82	59	20422m	43.966	ug/l
24) Methyl tert-Butyl Ether	5.04	73	54708	5.188	ug/l 100
25) Chloroform	7.37	83	32010	4.760	ug/l 98
26) Cyclohexane	7.65	56	29671	4.733	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	22511	4.607	ug/l 98
30) 2-Butanone	6.85	43	61893	29.653	ug/l 99
31) 2,2-Dichloropropane	6.82	77	28578	5.910	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	28121	5.117	ug/l 98
33) Carbon Tetrachloride	7.77	117	25250	5.400	ug/l 95
34) Benzene	8.04	78	71267	4.851	ug/l # 72
35) Methacrylonitrile	7.18	41	10802	4.841	ug/l 97
36) 1,2-Dichloroethane	8.12	62	23565	4.575	ug/l 95
37) Trichloroethene	8.84	130	19913	5.263	ug/l 99
38) Methylcyclohexane	9.08	83	30176	5.590	ug/l 97
39) 1,2-Dichloropropane	9.12	63	19133	4.613	ug/l 98
40) Dibromomethane	9.21	93	12680	5.200	ug/l 99

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

41) Bromodichloromethane	9.40	83	26084	5.186	ug/l	94
42) Vinyl Acetate	5.90	43	236817	24.546	ug/l	100
43) Ethyl Acetate	6.93	43	25173	5.847	ug/l #	100
44) Isopropyl Acetate	8.17	43	39250	5.120	ug/l #	87
45) 1,4-Dioxane	9.20	88	7672	167.070	ug/l	95
46) Methyl methacrylate	9.20	41	17542	4.848	ug/l	97
47) n-amyl Acetate	12.07	43	31268	5.449	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	26158	5.148	ug/l	92
49) cis-1,3-Dichloropropene	9.84	75	29433	5.062	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	18294	5.405	ug/l	99
51) Ethyl methacrylate	10.43	69	27926	5.765	ug/l	97
52) 1,3-Dichloropropane	10.71	76	29148	4.906	ug/l	100
53) Dibromochloromethane	10.90	129	20820	5.751	ug/l	97
54) 1,2-Dibromoethane	11.00	107	18234	5.442	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	52208	33.603	ug/l	99
56) Bromoform	12.13	173	16728	6.655	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	120302	28.449	ug/l	99
59) 2-Hexanone	10.75	43	85021	30.693	ug/l	99
61) Tetrachloroethene	10.63	164	19304	5.553	ug/l	93
62) Toluene	10.16	91	75389	5.038	ug/l	99
64) Chlorobenzene	11.43	112	44746	5.022	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	18945	5.592	ug/l	100
66) Ethyl Benzene	11.51	91	81904	5.102	ug/l	98
67) m/p-Xylenes	11.62	106	61558	10.442	ug/l	100
68) o-Xylene	11.95	106	31269	5.338	ug/l	98
69) Styrene	11.96	104	47371	5.123	ug/l	100
70) Isopropylbenzene	12.25	105	81064	5.259	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	25426	5.807	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	22306m	5.830	ug/l	
73) Bromobenzene	12.53	156	20203	5.377	ug/l	98
74) n-propylbenzene	12.59	91	80666	4.718	ug/l	100
75) 2-Chlorotoluene	12.67	91	51422	4.900	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	65718	5.168	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	8475	7.531	ug/l	97
78) 4-Chlorotoluene	12.77	91	44396	4.463	ug/l	99
79) tert-butylbenzene	12.99	119	60604	5.509	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	65035	5.298	ug/l	98
81) sec-Butylbenzene	13.17	105	72937	5.065	ug/l	99
82) p-Isopropyltoluene	13.29	119	65406	5.349	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	27623	4.553	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	24793	4.332	ug/l	97
85) n-Butylbenzene	13.61	91	44935	4.774	ug/l	99
86) Hexachloroethane	13.87	117	13524	6.216	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	29782	4.902	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4562	6.619	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	10820	4.198	ug/l	95
90) Hexachlorobutadiene	15.01	225	13624	6.405	ug/l	97
91) Naphthalene	15.13	128	32086	5.092	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	12772	4.709	ug/l	96

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

