

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061121\
 Data File : VN067301.D
 Acq On : 11 Jun 2021 21:34
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 6/14/2021 4:11:22 PM

Quant Time: Jun 12 08:58:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N061121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 12 08:57:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.659	128	69204	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	412417	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	376838	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	220344	34.943	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 116.467%#	
60) 4-Bromofluorobenzene	12.733	95	215362	32.186	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 107.300%	
63) Toluene-d8	10.443	98	543247	31.696	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 105.667%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	25925	6.940	ug/l	98
3) Chloromethane	2.301	50	28686	6.065	ug/l	95
4) Vinyl Chloride	2.443	62	27760	5.664	ug/l	96
5) Bromomethane	2.845	94	16076	4.981	ug/l	99
6) Chloroethane	3.011	64	16333	5.677	ug/l	92
7) Trichlorofluoromethane	3.368	101	37401	5.148	ug/l	94
8) Diethyl Ether	3.824	74	15556	6.060	ug/l	45
9) 1,1,2-Trichlorotrifluo...	4.205	101	22288	6.809	ug/l	55
10) 1,1-Dichloroethene	4.170	96	20619	5.730	ug/l	93
11) Methyl Iodide	4.414	142	21810	4.147	ug/l	97
12) Methyl Acetate	4.867	43	31900	7.676	ug/l	97
13) Acrolein	4.036	56	20558m	30.910	ug/l	
14) Acrylonitrile	5.559	53	64580	33.238	ug/l #	88
15) Acetone	4.293	58	16652	30.676	ug/l	93
16) Carbon Disulfide	4.521	76	66122	6.173	ug/l	95
17) Allyl chloride	4.835	41	47308m	7.011	ug/l	
18) Methylene Chloride	5.095	84	28194m	6.382	ug/l	
19) trans-1,2-Dichloroethene	5.591	96	22965	5.636	ug/l	88
20) Diisopropyl ether	6.498	45	86095	6.566	ug/l #	95
21) 1,1-Dichloroethane	6.385	63	50376	6.273	ug/l	97
22) cis-1,2-Dichloroethene	7.329	96	28679	5.821	ug/l	99
23) tert-Butyl Alcohol	5.388	59	31413m	36.847	ug/l	
24) Methyl tert-Butyl Ether	5.621	73	91568	6.235	ug/l #	71
25) Chloroform	7.817	83	52200	6.085	ug/l	99
26) Cyclohexane	8.096	56	43492	6.890	ug/l #	98
29) 1,1-Dichloropropene	8.222	75	37244	5.949	ug/l	99
30) 2-Butanone	7.345	43	96522	36.325	ug/l #	95
31) 2,2-Dichloropropane	7.329	77	42558	5.383	ug/l #	77
32) 1,1,1-Trichloroethane	8.016	97	48438	5.961	ug/l	98
33) Carbon Tetrachloride	8.209	117	39892	5.773	ug/l	98
34) Benzene	8.461	78	106111	5.654	ug/l #	85
35) Methacrylonitrile	7.638	41	21237m	7.046	ug/l	
36) 1,2-Dichloroethane	8.531	62	46818	6.102	ug/l	98
37) Trichloroethene	9.217	130	25606	5.149	ug/l	98
38) Methylcyclohexane	9.459	83	40320	6.046	ug/l	96
39) 1,2-Dichloropropane	9.491	63	28761	5.953	ug/l	98
40) Dibromomethane	9.579	93	20408	6.189	ug/l	99
41) Bromodichloromethane	9.765	83	41736	5.664	ug/l	100
42) Vinyl Acetate	6.436	43	397722m	33.744	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	35830	6.170	ug/l #	75
44) Isopropyl Acetate	8.563	43	72576	7.140	ug/l	92
45) 1,4-Dioxane	9.577	88	8687	104.925	ug/l #	80
46) Methyl methacrylate	9.561	41	31364	6.694	ug/l	96
47) n-amyl Acetate	12.390	43	58417	7.597	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	45229	5.372	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	45837	5.319	ug/l	98
50) 1,1,2-Trichloroethane	10.902	97	25627	5.616	ug/l	96
51) Ethyl methacrylate	10.765	69	45940	6.382	ug/l	99
52) 1,3-Dichloropropane	11.047	76	46249	5.756	ug/l	100
53) Dibromochloromethane	11.242	129	27272	4.977	ug/l	98
54) 1,2-Dibromoethane	11.347	107	26538	5.545	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	54068	23.486	ug/l	99
56) Bromoform	12.460	173	17625	4.863	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	208858	37.797	ug/l	100
59) 2-Hexanone	11.089	43	148310	37.956	ug/l	98
61) Tetrachloroethene	10.979	164	23755	4.999	ug/l	97
62) Toluene	10.507	91	116396	5.828	ug/l	99
64) Chlorobenzene	11.771	112	67972	5.351	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.846	131	25540	5.229	ug/l	98
66) Ethyl Benzene	11.848	91	135662	5.907	ug/l	98
67) m/p-Xylenes	11.956	106	93197	10.671	ug/l	98
68) o-Xylene	12.283	106	48108	5.598	ug/l	94
69) Styrene	12.296	104	77052	5.419	ug/l	99
70) Isopropylbenzene	12.581	105	120085	5.354	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	36157	5.841	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	38558m	6.196	ug/l	
73) Bromobenzene	12.865	156	24805	4.714	ug/l	99
74) n-propylbenzene	12.921	91	141393	5.615	ug/l	98
75) 2-Chlorotoluene	13.010	91	92841	5.773	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	102196	5.132	ug/l	98
77) t-1,4-Dichloro-2-butene	12.629	75	11499	5.234	ug/l	91
78) 4-Chlorotoluene	13.106	91	88269	5.423	ug/l	100
79) tert-butylbenzene	13.326	119	81198	4.933	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	100807m	5.135	ug/l	
81) sec-Butylbenzene	13.503	105	112297	5.354	ug/l	98
82) p-Isopropyltoluene	13.619	119	90406	4.672	ug/l	98
83) 1,3-Dichlorobenzene	13.616	146	43875	4.786	ug/l	96
84) 1,4-Dichlorobenzene	13.696	146	44430	4.969	ug/l	98
85) n-Butylbenzene	13.943	91	83796	5.314	ug/l	99
86) Hexachloroethane	14.214	117	18596	5.841	ug/l	92
87) 1,2-Dichlorobenzene	13.991	146	42984	4.756	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.600	75	9207	6.072	ug/l #	51
89) 1,2,4-Trichlorobenzene	15.265	180	19839	4.021	ug/l	97
90) Hexachlorobutadiene	15.373	225	11751	5.236	ug/l	96
91) Naphthalene	15.507	128	69157	4.735	ug/l	98
92) 1,2,3-Trichlorobenzene	15.702	180	19840	4.015	ug/l	97

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

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