

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078716.D
 Acq On : 01 Aug 2023 14:35
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

Quant Time: Aug 02 02:52:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 02:50:16 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	101657	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	582350	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	495167	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	238519	31.139	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.800%
60) 4-Bromofluorobenzene	12.853	95	201101	28.188	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.967%
63) Toluene-d8	10.571	98	819024	33.399	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	111.333%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	63428	11.279	ug/l	97
3) Chloromethane	2.377	50	75675	10.830	ug/l	96
4) Vinyl Chloride	2.524	62	110858	12.140	ug/l	95
5) Bromomethane	2.971	94	85261	12.187	ug/l	95
6) Chloroethane	3.130	64	70734	11.788	ug/l	97
7) Trichlorofluoromethane	3.506	101	112589	11.868	ug/l	95
8) Diethyl Ether	3.977	74	34903	11.393	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	60065	11.890	ug/l	95
10) 1,1-Dichloroethene	4.353	96	56429	11.638	ug/l	90
11) Methyl Iodide	4.595	142	75057	11.174	ug/l	92
12) Methyl Acetate	5.048	43	91369	12.755	ug/l	97
13) Acrolein	4.195	56	47986	56.747	ug/l	99
14) Acrylonitrile	5.736	53	133337	64.259	ug/l	98
15) Acetone	4.448	58	38362	61.859	ug/l	98
16) Carbon Disulfide	4.724	76	160800	11.609	ug/l	100
17) Allyl chloride	5.036	41	72873	10.789	ug/l	98
18) Methylene Chloride	5.289	84	70985	13.552	ug/l	94
19) trans-1,2-Dichloroethene	5.800	96	65381	11.577	ug/l	94
20) Diisopropyl ether	6.683	45	169505	11.451	ug/l	97
21) 1,1-Dichloroethane	6.583	63	116647	11.808	ug/l	95
22) cis-1,2-Dichloroethene	7.500	96	74911	11.945	ug/l	96
23) tert-Butyl Alcohol	5.542	59	57600m	60.674	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	188658m	11.547	ug/l	
25) Chloroform	7.971	83	125767	12.190	ug/l	96
26) Cyclohexane	8.271	56	86114	11.946	ug/l #	94
29) 1,1-Dichloropropene	8.383	75	90343	12.562	ug/l	99
30) 2-Butanone	7.494	43	170085	60.062	ug/l	99
31) 2,2-Dichloropropane	7.494	77	99088	12.054	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	118329	12.872	ug/l	98
33) Carbon Tetrachloride	8.371	117	100242	12.374	ug/l	95
34) Benzene	8.612	78	268993	12.408	ug/l #	93
35) Methacrylonitrile	7.789	41	37315	11.842	ug/l	83
36) 1,2-Dichloroethane	8.683	62	95117	12.437	ug/l	99
37) Trichloroethene	9.359	130	70613	11.824	ug/l	98
38) Methylcyclohexane	9.612	83	82778	11.595	ug/l	98
39) 1,2-Dichloropropane	9.630	63	69077	12.142	ug/l	100
40) Dibromomethane	9.718	93	49317	12.225	ug/l	96
41) Bromodichloromethane	9.894	83	97371	12.061	ug/l #	94
42) Vinyl Acetate	6.618	43	529609	55.838	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	73026	12.231	ug/l #	77
44) Isopropyl Acetate	8.700	43	127175	12.174	ug/l	99
45) 1,4-Dioxane	9.700	88	22801	243.102	ug/l	95
46) Methyl methacrylate	9.688	41	54900	11.771	ug/l	98
47) n-amyl Acetate	12.500	43	87779	11.486	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	109700	12.794	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	122348	13.466	ug/l	98
50) 1,1,2-Trichloroethane	11.024	97	71265	12.286	ug/l	97
51) Ethyl methacrylate	10.882	69	97436	12.563	ug/l	92
52) 1,3-Dichloropropane	11.171	76	160152	15.200	ug/l	97
53) Dibromochloromethane	11.365	129	80964	12.625	ug/l	96
54) 1,2-Dibromoethane	11.471	107	70722	12.350	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	149544	60.503	ug/l	97
56) Bromoform	12.582	173	47065	11.660	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	429239	67.573	ug/l	99
59) 2-Hexanone	11.200	43	316654	65.672	ug/l	99
61) Tetrachloroethene	11.112	164	83187	14.693	ug/l	95
62) Toluene	10.641	91	325412	12.804	ug/l	99
64) Chlorobenzene	11.894	112	177805	12.101	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	69070	11.840	ug/l	98
66) Ethyl Benzene	11.971	91	290495	11.562	ug/l	100
67) m/p-Xylenes	12.076	106	217971	22.796	ug/l	98
68) o-Xylene	12.400	106	107057	11.203	ug/l	95
69) Styrene	12.418	104	162138	10.899	ug/l	98
70) Isopropylbenzene	12.700	105	264843	11.147	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	93216	11.722	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	74204m	9.845	ug/l	
73) Bromobenzene	12.988	156	65971	11.225	ug/l	95
74) n-propylbenzene	13.041	91	280642	10.678	ug/l	100
75) 2-Chlorotoluene	13.129	91	186338	11.151	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	218419	11.174	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	22565	10.206	ug/l	74
78) 4-Chlorotoluene	13.229	91	169600	10.587	ug/l	100
79) tert-butylbenzene	13.441	119	186458	10.981	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	201994	10.885	ug/l	98
81) sec-Butylbenzene	13.623	105	233230	10.785	ug/l	99
82) p-Isopropyltoluene	13.735	119	188690	10.697	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	99816	10.602	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	94655	10.841	ug/l	99
85) n-Butylbenzene	14.065	91	127032	10.650	ug/l	98
86) Hexachloroethane	14.341	117	38829	11.450	ug/l	91
87) 1,2-Dichlorobenzene	14.112	146	99072	11.207	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	14275	11.858	ug/l	96
89) 1,2,4-Trichlorobenzene	15.400	180	26393	10.351	ug/l	94
90) Hexachlorobutadiene	15.500	225	25437	11.649	ug/l	98
91) Naphthalene	15.647	128	83566	10.459	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.841	180	35275	11.511	ug/l	93

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

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