

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090823\
 Data File : VN079206.D
 Acq On : 08 Sep 2023 18:43
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2023
 Supervised By : Mahesh Dadoda 09/11/2023

Quant Time: Sep 08 23:19:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	20382	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	109178	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	94758	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	47500	31.019	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.400%			
60) 4-Bromofluorobenzene	12.853	95	41155	29.476	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.267%			
63) Toluene-d8	10.576	98	145598	32.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 109.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	21552	18.959	ug/l	95
3) Chloromethane	2.365	50	25346	22.236	ug/l	91
4) Vinyl Chloride	2.512	62	29819	26.442	ug/l	99
5) Bromomethane	2.948	94	8444	12.200	ug/l	92
6) Chloroethane	3.112	64	20571	29.785	ug/l #	85
7) Trichlorofluoromethane	3.495	101	42250	31.469	ug/l	94
8) Diethyl Ether	3.965	74	14270	28.988	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	22204	30.010	ug/l	91
10) 1,1-Dichloroethene	4.348	96	20881	29.127	ug/l	98
11) Methyl Iodide	4.589	142	8264m	9.151	ug/l	
12) Methyl Acetate	5.036	43	49045	29.356	ug/l	98
13) Acrolein	4.195	56	15109	99.296	ug/l	95
14) Acrylonitrile	5.730	53	64423	131.436	ug/l	96
15) Acetone	4.447	58	17471	136.639	ug/l	82
16) Carbon Disulfide	4.718	76	59073	27.886	ug/l #	93
17) Allyl chloride	5.030	41	29374	25.499	ug/l	91
18) Methylene Chloride	5.283	84	27424	28.521	ug/l	91
19) trans-1,2-Dichloroethene	5.789	96	24690	27.527	ug/l	89
20) Diisopropyl ether	6.677	45	76268	22.177	ug/l #	91
21) 1,1-Dichloroethane	6.571	63	47359	23.507	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	29327	20.907	ug/l	93
23) tert-Butyl Alcohol	5.542	59	22953	121.730	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	74470	26.320	ug/l #	82
25) Chloroform	7.977	83	50489	20.782	ug/l	97
26) Cyclohexane	8.259	56	33320	18.238	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	33473	19.123	ug/l	98
30) 2-Butanone	7.494	43	82638	93.859	ug/l	100
31) 2,2-Dichloropropane	7.500	77	32900	18.843	ug/l #	80
32) 1,1,1-Trichloroethane	8.177	97	43406	21.048	ug/l	98
33) Carbon Tetrachloride	8.365	117	37518	21.178	ug/l	99
34) Benzene	8.612	78	105638	18.994	ug/l	98
35) Methacrylonitrile	7.788	41	17587	18.552	ug/l	96
36) 1,2-Dichloroethane	8.677	62	38628	21.060	ug/l	97
37) Trichloroethene	9.353	130	26383	20.070	ug/l	92
38) Methylcyclohexane	9.606	83	31560	18.035	ug/l	98
39) 1,2-Dichloropropane	9.630	63	27775	19.361	ug/l	99
40) Dibromomethane	9.718	93	19240	20.337	ug/l	97
41) Bromodichloromethane	9.894	83	39894	21.154	ug/l	98
42) Vinyl Acetate	6.612	43	224799	107.510	ug/l	99

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 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
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 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	34705m	20.755	ug/l	
44) Isopropyl Acetate	8.700	43	55799	18.550	ug/l	99
45) 1,4-Dioxane	9.700	88	10796	360.570	ug/l	96
46) Methyl methacrylate	9.688	41	22029	16.392	ug/l	94
47) n-amyl Acetate	12.500	43	38840	18.360	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	37623	18.440	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	42152	19.806	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	27206	20.498	ug/l	96
51) Ethyl methacrylate	10.882	69	38473	18.770	ug/l	94
52) 1,3-Dichloropropane	11.171	76	45030	19.873	ug/l	97
53) Dibromochloromethane	11.365	129	28773	20.670	ug/l	100
54) 1,2-Dibromoethane	11.476	107	25417	18.859	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	72986	100.212	ug/l	98
56) Bromoform	12.582	173	19741	20.352	ug/l	98
58) 4-Methyl-2-Pentanone	10.453	43	179323	103.126	ug/l	98
59) 2-Hexanone	11.200	43	125414	102.698	ug/l	99
61) Tetrachloroethene	11.106	164	22610	21.929	ug/l	88
62) Toluene	10.635	91	118039	21.394	ug/l	100
64) Chlorobenzene	11.900	112	63866	19.842	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	24662	20.014	ug/l	97
66) Ethyl Benzene	11.971	91	109328	19.680	ug/l	98
67) m/p-Xylenes	12.076	106	83472	39.934	ug/l	99
68) o-Xylene	12.406	106	41818	20.745	ug/l	95
69) Styrene	12.418	104	66981	20.832	ug/l	97
70) Isopropylbenzene	12.700	105	103579	20.215	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	37626	19.630	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	31821m	19.730	ug/l	
73) Bromobenzene	12.988	156	26889	21.008	ug/l	89
74) n-propylbenzene	13.041	91	116758	19.999	ug/l	99
75) 2-Chlorotoluene	13.129	91	74366	19.865	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	88573	20.906	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	8997	15.845	ug/l	92
78) 4-Chlorotoluene	13.229	91	70207	19.862	ug/l	99
79) tert-butylbenzene	13.447	119	73962	21.268	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	86045	21.266	ug/l	99
81) sec-Butylbenzene	13.623	105	100685	21.161	ug/l	98
82) p-Isopropyltoluene	13.735	119	79424	21.132	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	43638	21.468	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	40923	21.466	ug/l	98
85) n-Butylbenzene	14.065	91	57205	19.984	ug/l	99
86) Hexachloroethane	14.341	117	15645	21.024	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	43269	21.570	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.729	75	6704	20.692	ug/l	96
89) 1,2,4-Trichlorobenzene	15.847	180	16751	19.514	ug/l	98
90) Hexachlorobutadiene	15.506	225	11114	21.315	ug/l	97
91) Naphthalene	15.647	128	36303	16.184	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	16751	19.514	ug/l	98

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

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