

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077503.D
 Acq On : 28 Apr 2023 15:59
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042823

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 16:22:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:20:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	71219	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	533895	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	569278	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	192301	30.287	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.967%			
60) 4-Bromofluorobenzene	12.848	95	306415	30.723	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.400%			
63) Toluene-d8	10.566	98	607406	30.280	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	186182	20.998	ug/l	97
3) Chloromethane	2.372	50	127410	19.452	ug/l	98
4) Vinyl Chloride	2.525	62	174218	19.124	ug/l	93
5) Bromomethane	2.943	94	145152	18.875	ug/l	95
6) Chloroethane	3.131	64	114580	17.466	ug/l	98
7) Trichlorofluoromethane	3.501	101	289103	21.519	ug/l	96
8) Diethyl Ether	3.966	74	95264	20.263	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.384	101	154647	20.367	ug/l	100
10) 1,1-Dichloroethene	4.354	96	145009	19.907	ug/l	92
11) Methyl Iodide	4.601	142	178464	19.970	ug/l	95
12) Methyl Acetate	5.043	43	200381	19.074	ug/l	99
13) Acrolein	4.190	56	123401	97.967	ug/l	98
14) Acrylonitrile	5.725	53	293192	90.966	ug/l	99
15) Acetone	4.431	58	101154	98.297	ug/l	81
16) Carbon Disulfide	4.719	76	356645	19.524	ug/l	98
17) Allyl chloride	5.031	41	151147	18.923	ug/l	96
18) Methylene Chloride	5.290	84	163329	19.006	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	158888	19.741	ug/l	98
20) Diisopropyl ether	6.678	45	358251	19.268	ug/l	98
21) 1,1-Dichloroethane	6.578	63	264960	19.499	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	190929	19.806	ug/l	99
23) tert-Butyl Alcohol	5.537	59	124999	89.896	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	489728	19.383	ug/l	100
25) Chloroform	7.972	83	305440	19.558	ug/l	99
26) Cyclohexane	8.260	56	216241	19.509	ug/l	95
29) 1,1-Dichloropropene	8.378	75	217685	19.343	ug/l	99
30) 2-Butanone	7.489	43	371395	90.013	ug/l #	98
31) 2,2-Dichloropropane	7.495	77	264251	20.068	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	281462	19.377	ug/l	97
33) Carbon Tetrachloride	8.366	117	238388	18.908	ug/l	99
34) Benzene	8.607	78	653405	18.880	ug/l	96
35) Methacrylonitrile	7.784	41	75817	17.997	ug/l	93
36) 1,2-Dichloroethane	8.672	62	223463	18.906	ug/l	99
37) Trichloroethene	9.354	130	168828	19.300	ug/l	97
38) Methylcyclohexane	9.601	83	293390	19.843	ug/l	99
39) 1,2-Dichloropropane	9.625	63	156439	19.516	ug/l	99
40) Dibromomethane	9.707	93	123897	19.599	ug/l	97
41) Bromodichloromethane	9.889	83	243701	19.519	ug/l	99
42) Vinyl Acetate	6.613	43	1110671	85.472	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	146864m	18.390	ug/l	
44) Isopropyl Acetate	8.695	43	258959	18.305	ug/l	98
45) 1,4-Dioxane	9.695	88	67862	395.543	ug/l	92
46) Methyl methacrylate	9.683	41	123668	19.208	ug/l	97
47) n-amyl Acetate	12.495	43	216201	19.065	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	245960	19.350	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	269595	19.647	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	172732	19.248	ug/l	96
51) Ethyl methacrylate	10.877	69	242116	19.488	ug/l	94
52) 1,3-Dichloropropane	11.166	76	281812	19.352	ug/l	100
53) Dibromochloromethane	11.360	129	179512	19.430	ug/l	100
54) 1,2-Dibromoethane	11.472	107	175085	19.065	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	338439	83.014	ug/l	99
56) Bromoform	12.577	173	106686	18.513	ug/l #	99
58) 4-Methyl-2-Pentanone	10.448	43	767941	93.669	ug/l	99
59) 2-Hexanone	11.195	43	574324	95.083	ug/l	100
61) Tetrachloroethene	11.107	164	133613	20.094	ug/l	95
62) Toluene	10.630	91	772058	20.165	ug/l	99
64) Chlorobenzene	11.895	112	462525	19.775	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.966	131	172703	20.662	ug/l	97
66) Ethyl Benzene	11.966	91	826044	19.759	ug/l	100
67) m/p-Xylenes	12.077	106	661765	40.651	ug/l	99
68) o-Xylene	12.401	106	325662	20.140	ug/l	98
69) Styrene	12.413	104	518737	20.631	ug/l	99
70) Isopropylbenzene	12.695	105	841343	20.498	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	240871	19.265	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	201566m	18.952	ug/l	
73) Bromobenzene	12.983	156	176509	19.997	ug/l	97
74) n-propylbenzene	13.036	91	934217	20.454	ug/l	99
75) 2-Chlorotoluene	13.124	91	572459	20.320	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	645275	20.395	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	70423	20.048	ug/l	98
78) 4-Chlorotoluene	13.224	91	541167	20.291	ug/l	99
79) tert-butylbenzene	13.442	119	596191	20.370	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	608969	20.928	ug/l	100
81) sec-Butylbenzene	13.618	105	836976	20.513	ug/l	99
82) p-Isopropyltoluene	13.730	119	651905	20.389	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	315853	20.455	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	305939	20.052	ug/l	99
85) n-Butylbenzene	14.060	91	513134	20.768	ug/l	98
86) Hexachloroethane	14.336	117	130701	20.179	ug/l	96
87) 1,2-Dichlorobenzene	14.107	146	312587	19.898	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	44478	19.245	ug/l	98
89) 1,2,4-Trichlorobenzene	15.395	180	81494	19.765	ug/l	99
90) Hexachlorobutadiene	15.507	225	65835	19.632	ug/l	97
91) Naphthalene	15.642	128	326285	21.677	ug/l	98
92) 1,2,3-Trichlorobenzene	15.848	180	83250	21.580	ug/l	97

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

Manual Integrations APPROVED

Reviewed By :John Carlone 04/29/2023
Supervised By :Semsettin Yesilyurt 04/29/2023

Abundance

TIC: VN077503.D\data.ms

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

2100000
2000000
1900000
1800000
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600000
500000
400000
300000
200000
100000
0

Dichlorodifluoromethane, M
Chloromethane, M
Vinyl Chloride, M
Bromomethane, M
Chloroethane, M
Trichlorofluoromethane, M
Diethyl Ether, T
Acrolein, M
Acetone, M
Methyl Iodide, M
Carbon Disulfide, M
Methyl Acetate, M
Methylene Chloride, M
tert-Butyl Alcohol, M
Acrylonitrile, M
Methyl 2-ethylhexanoate, M
1,1-Dichloroethane, M
Vinyl Acetate, M
Diisopropyl ether, T
Ethyl Acetate, M
Methacrylonitrile, M
Bromochloromethane, I
Chloroform, M
1,1,1-Trichloroethane, M
1,2-Dichloroethane, M
1,4-Dichlorobenzene, M
Benzene, M
1,4-Difluorobenzene, I
Trichloroethene, M
Dichloromethane, M
Bromodichloromethane, M
cis-1,3-Dichloropropene, T
2-Chloroethyl vinyl ether, M
Toluene-d8, S
Toluene, M
Ethyl Benzoate, M
1,1,2-Trichloroethane, M
1,2-Dichloropropane, M
1,3-Dichloropropane, M
Dibromochloromethane, M
1,2-Dibromoethane, M
Chlorobenzene, M
Chlorobenzene-d5, I
m,p-Xylenes, M
Ethyl Benzoate, M
Styrene, M
Isopropylbenzene, M
4-Bromofluorobenzene, S
1,2,3-Trichlorobenzene, M
1,2,4-Trichlorobenzene, M
4-Chlorotoluene, M
tert-butylbenzene, M
sec-Butylbenzene, M
1,2,4-Trimethylbenzene, M
1,2-Dichlorobenzene, M
1,4-Dichlorobenzene, M
1,2-Dichloroethane, T
Hexachloroethane, T
1,2-Dibromo-3-Chloropropane, M
1,2,4-Trichlorobenzene, M
Hexachlorobutadiene, M
Naphthalene, M
1,2,3-Trichlorobenzene, M