

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077616.D
 Acq On : 08 May 2023 14:44
 Operator : JC\MD
 Sample : VN0508WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

Quant Time: May 09 06:01:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	110801	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	608193	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	553879	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	244225	30.650	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.167%			
60) 4-Bromofluorobenzene	12.854	95	255703	29.034	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.767%			
63) Toluene-d8	10.571	98	765670	29.930	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	126184	17.346	ug/l	95
3) Chloromethane	2.372	50	104161	18.840	ug/l	97
4) Vinyl Chloride	2.525	62	140588	16.526	ug/l	97
5) Bromomethane	2.966	94	123168	21.721	ug/l	96
6) Chloroethane	3.125	64	102905	18.516	ug/l	99
7) Trichlorofluoromethane	3.501	101	185408	16.026	ug/l	94
8) Diethyl Ether	3.972	74	78782	21.605	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.384	101	108937	17.444	ug/l	96
10) 1,1-Dichloroethene	4.348	96	106434	18.030	ug/l	90
11) Methyl Iodide	4.601	142	175860	19.153	ug/l	93
12) Methyl Acetate	5.025	43	153109m	21.455	ug/l	
13) Acrolein	4.190	56	90484	103.513	ug/l	97
14) Acrylonitrile	5.725	53	240364	110.729	ug/l	99
15) Acetone	4.437	58	66376	100.749	ug/l	100
16) Carbon Disulfide	4.719	76	242489	17.100	ug/l	98
17) Allyl chloride	5.031	41	107285	17.507	ug/l	86
18) Methylene Chloride	5.289	84	138933	19.364	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	117924	17.756	ug/l	95
20) Diisopropyl ether	6.678	45	295215	19.808	ug/l #	92
21) 1,1-Dichloroethane	6.572	63	210615	19.265	ug/l	95
22) cis-1,2-Dichloroethene	7.495	96	159548	19.937	ug/l	89
23) tert-Butyl Alcohol	5.536	59	97162	114.258	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	411563	20.596	ug/l	97
25) Chloroform	7.972	83	256825	19.709	ug/l	95
26) Cyclohexane	8.260	56	152704	17.015	ug/l #	91
29) 1,1-Dichloropropene	8.377	75	160765	18.362	ug/l	96
30) 2-Butanone	7.489	43	279473	119.751	ug/l	91
31) 2,2-Dichloropropane	7.495	77	188384	18.468	ug/l	98
32) 1,1,1-Trichloroethane	8.172	97	215736	19.039	ug/l	96
33) Carbon Tetrachloride	8.366	117	182555	19.051	ug/l	96
34) Benzene	8.613	78	538050	20.352	ug/l	96
35) Methacrylonitrile	7.783	41	63044	23.799	ug/l	87
36) 1,2-Dichloroethane	8.677	62	200413	22.738	ug/l	100
37) Trichloroethene	9.354	130	130334	19.071	ug/l	97
38) Methylcyclohexane	9.601	83	208693	18.512	ug/l	95
39) 1,2-Dichloropropane	9.624	63	130772	21.365	ug/l	91
40) Dibromomethane	9.713	93	103758	21.502	ug/l	93
41) Bromodichloromethane	9.895	83	203218	20.914	ug/l #	94
42) Vinyl Acetate	6.613	43	933770m	107.863	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077616.D
 Acq On : 08 May 2023 14:44
 Operator : JC\MD
 Sample : VN0508WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0508WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

Quant Time: May 09 06:01:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	114462m	22.821	ug/l	
44) Isopropyl Acetate	8.695	43	212831	23.176	ug/l	93
45) 1,4-Dioxane	9.695	88	57274	501.727	ug/l	93
46) Methyl methacrylate	9.683	41	92565	22.444	ug/l	89
47) n-amyl Acetate	12.495	43	172595	21.822	ug/l	95
48) t-1,3-Dichloropropene	10.836	75	207869	21.220	ug/l	94
49) cis-1,3-Dichloropropene	10.313	75	228397	21.272	ug/l	94
50) 1,1,2-Trichloroethane	11.013	97	148817	21.415	ug/l	91
51) Ethyl methacrylate	10.877	69	201154	22.423	ug/l	96
52) 1,3-Dichloropropane	11.166	76	245104	21.814	ug/l	98
53) Dibromochloromethane	11.360	129	151310	20.928	ug/l	98
54) 1,2-Dibromoethane	11.471	107	152477	22.089	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	457439	112.763	ug/l	97
56) Bromoform	12.583	173	93982	22.091	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	602873	118.196	ug/l #	94
59) 2-Hexanone	11.201	43	428153	116.284	ug/l	94
61) Tetrachloroethene	11.107	164	103021	19.229	ug/l	91
62) Toluene	10.636	91	613400	20.003	ug/l	99
64) Chlorobenzene	11.895	112	378851	20.089	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	140173	20.604	ug/l	93
66) Ethyl Benzene	11.965	91	653319	19.228	ug/l	100
67) m/p-Xylenes	12.077	106	524617	39.244	ug/l	95
68) o-Xylene	12.401	106	261310	19.835	ug/l	96
69) Styrene	12.413	104	422050	20.035	ug/l	99
70) Isopropylbenzene	12.701	105	650309	19.004	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	202148	22.029	ug/l	96
72) 1,2,3-Trichloropropane	12.995	75	172804m	22.632	ug/l	
73) Bromobenzene	12.983	156	145923	20.394	ug/l	93
74) n-propylbenzene	13.036	91	725887	18.972	ug/l	100
75) 2-Chlorotoluene	13.130	91	453029	19.578	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	529246	19.571	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	55735	20.954	ug/l	93
78) 4-Chlorotoluene	13.224	91	435349	19.268	ug/l	99
79) tert-butylbenzene	13.442	119	466376	19.256	ug/l	96
80) 1,2,4-Trimethylbenzene	13.489	105	493934	18.820	ug/l	97
81) sec-Butylbenzene	13.618	105	645705	18.994	ug/l	100
82) p-Isopropyltoluene	13.736	119	512058	18.931	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	255534	19.232	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	246831	18.977	ug/l	99
85) n-Butylbenzene	14.059	91	392133	17.622	ug/l	99
86) Hexachloroethane	14.336	117	93559	18.560	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	256524	19.890	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	36137	21.670	ug/l	95
89) 1,2,4-Trichlorobenzene	15.401	180	76255	17.161	ug/l	98
90) Hexachlorobutadiene	15.501	225	51614	20.599	ug/l	94
91) Naphthalene	15.648	128	276941	18.245	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	71300	17.423	ug/l	97

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

