

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042123\
 Data File : VN077419.D
 Acq On : 21 Apr 2023 11:11
 Operator : JC\MD
 Sample : VN0421WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0421WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2023
 Supervised By : Mahesh Dadoda 04/24/2023

Quant Time: Apr 22 02:39:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	55527	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	412090	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	452822	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	148237	31.478	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	104.933%		
60) 4-Bromofluorobenzene	12.854	95	227038	28.996	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.667%		
63) Toluene-d8	10.571	98	459374	28.857	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	100721	19.080	ug/l	97
3) Chloromethane	2.372	50	91282	13.016	ug/l	96
4) Vinyl Chloride	2.525	62	120710	12.017	ug/l	97
5) Bromomethane	2.960	94	104449	13.799	ug/l	96
6) Chloroethane	3.131	64	90848	13.493	ug/l	90
7) Trichlorofluoromethane	3.507	101	176427	18.863	ug/l	95
8) Diethyl Ether	3.972	74	68317	17.136	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.378	101	112446	19.226	ug/l	99
10) 1,1-Dichloroethene	4.348	96	102736	17.559	ug/l	95
11) Methyl Iodide	4.601	142	130941	19.809	ug/l	97
12) Methyl Acetate	5.031	43	137913	15.821	ug/l	97
13) Acrolein	4.189	56	117840	108.906	ug/l	99
14) Acrylonitrile	5.731	53	233789	78.460	ug/l	98
15) Acetone	4.442	58	75958	70.266	ug/l	88
16) Carbon Disulfide	4.719	76	236529	15.316	ug/l #	93
17) Allyl chloride	5.037	41	109821	14.581	ug/l	91
18) Methylene Chloride	5.284	84	124980	18.394	ug/l	96
19) trans-1,2-Dichloroethene	5.801	96	114910	18.062	ug/l	98
20) Diisopropyl ether	6.678	45	283979	15.819	ug/l	96
21) 1,1-Dichloroethane	6.578	63	196309	17.253	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	141380	18.229	ug/l	97
23) tert-Butyl Alcohol	5.525	59	94697	71.473	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	386604	18.353	ug/l #	84
25) Chloroform	7.972	83	229892	18.643	ug/l	98
26) Cyclohexane	8.260	56	157569	15.937	ug/l #	94
29) 1,1-Dichloropropene	8.377	75	155892	17.463	ug/l	96
30) 2-Butanone	7.489	43	298722	70.762	ug/l	95
31) 2,2-Dichloropropane	7.495	77	194354	17.735	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	213178	19.404	ug/l	97
33) Carbon Tetrachloride	8.372	117	175913	18.761	ug/l	91
34) Benzene	8.613	78	489918	17.737	ug/l	96
35) Methacrylonitrile	7.783	41	62209	15.643	ug/l	94
36) 1,2-Dichloroethane	8.672	62	171136	19.762	ug/l	98
37) Trichloroethene	9.354	130	125256	18.539	ug/l	96
38) Methylcyclohexane	9.607	83	206083	17.021	ug/l	98
39) 1,2-Dichloropropane	9.624	63	121216	17.678	ug/l	99
40) Dibromomethane	9.713	93	93609	18.947	ug/l	100
41) Bromodichloromethane	9.889	83	186575	18.939	ug/l	100
42) Vinyl Acetate	6.613	43	1101919m	90.190	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	117395	15.031	ug/l	97
44) Isopropyl Acetate	8.695	43	228573	16.345	ug/l #	100
45) 1,4-Dioxane	9.701	88	48494	328.815	ug/l	92
46) Methyl methacrylate	9.683	41	98764	16.404	ug/l	98
47) n-amyl Acetate	12.495	43	179410	14.681	ug/l	95
48) t-1,3-Dichloropropene	10.842	75	190268	17.257	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	210203	17.921	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	133510	18.605	ug/l	97
51) Ethyl methacrylate	10.877	69	189564	17.201	ug/l	95
52) 1,3-Dichloropropane	11.166	76	219882	18.359	ug/l	98
53) Dibromochloromethane	11.360	129	141262	18.677	ug/l	99
54) 1,2-Dibromoethane	11.471	107	134081	18.612	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	310490	91.255	ug/l	95
56) Bromoform	12.583	173	85329	16.795	ug/l	96
58) 4-Methyl-2-Pentanone	10.448	43	643150	75.858	ug/l	97
59) 2-Hexanone	11.195	43	468255	71.451	ug/l	99
61) Tetrachloroethene	11.107	164	98371	18.265	ug/l	97
62) Toluene	10.630	91	567065	17.948	ug/l	99
64) Chlorobenzene	11.895	112	345628	18.006	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	128714	18.235	ug/l	98
66) Ethyl Benzene	11.965	91	620625	17.731	ug/l	100
67) m/p-Xylenes	12.077	106	486809	35.482	ug/l	100
68) o-Xylene	12.401	106	245092	17.856	ug/l	98
69) Styrene	12.413	104	385306	17.521	ug/l	99
70) Isopropylbenzene	12.701	105	625612	17.960	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	189573	17.771	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	156881m	21.635	ug/l	
73) Bromobenzene	12.983	156	131076	18.521	ug/l	91
74) n-propylbenzene	13.036	91	681066	17.671	ug/l	99
75) 2-Chlorotoluene	13.130	91	413429	17.906	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	476508	16.807	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	58379	15.806	ug/l	95
78) 4-Chlorotoluene	13.224	91	390583	17.903	ug/l	100
79) tert-butylbenzene	13.442	119	440782	17.864	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	446353	16.150	ug/l	99
81) sec-Butylbenzene	13.618	105	611235	17.345	ug/l	100
82) p-Isopropyltoluene	13.730	119	482937	17.106	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	239828	17.873	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	229642	17.640	ug/l	99
85) n-Butylbenzene	14.059	91	375215	16.083	ug/l	99
86) Hexachloroethane	14.336	117	100373	16.713	ug/l	97
87) 1,2-Dichlorobenzene	14.107	146	240362	18.281	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	33426	16.352	ug/l	95
89) 1,2,4-Trichlorobenzene	15.371	180	58127	11.239	ug/l	98
90) Hexachlorobutadiene	15.465	225	49444	18.641	ug/l	98
91) Naphthalene	15.589	128	214569	10.860	ug/l	99
92) 1,2,3-Trichlorobenzene	15.759	180	54749	10.849	ug/l	98

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

