

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077621.D
 Acq On : 08 May 2023 17:06
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: May 09 06:04:01 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.819	128	111291	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	661758	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	595348	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	246298	30.774	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	102.567%		
60) 4-Bromofluorobenzene	12.854	95	279156	29.489	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.300%		
63) Toluene-d8	10.566	98	824582	29.988	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.967%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	137471	18.814	ug/l	91
3) Chloromethane	2.372	50	111261	20.036	ug/l	98
4) Vinyl Chloride	2.519	62	163414	19.125	ug/l	97
5) Bromomethane	2.966	94	140691	24.702	ug/l	97
6) Chloroethane	3.131	64	116067	20.792	ug/l	99
7) Trichlorofluoromethane	3.507	101	206604	17.779	ug/l	92
8) Diethyl Ether	3.972	74	75196	20.531	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.378	101	123340	19.664	ug/l	97
10) 1,1-Dichloroethene	4.349	96	112020	18.892	ug/l	96
11) Methyl Iodide	4.601	142	175764	19.058	ug/l	92
12) Methyl Acetate	5.031	43	147928	20.638	ug/l #	87
13) Acrolein	4.190	56	74129	84.430	ug/l	97
14) Acrylonitrile	5.731	53	220405	101.088	ug/l	98
15) Acetone	4.437	58	73408	110.932	ug/l	97
16) Carbon Disulfide	4.719	76	255390	17.930	ug/l	98
17) Allyl chloride	5.031	41	118278	19.216	ug/l	93
18) Methylene Chloride	5.290	84	140593	19.509	ug/l #	92
19) trans-1,2-Dichloroethene	5.796	96	130775	19.604	ug/l	98
20) Diisopropyl ether	6.684	45	293695	19.619	ug/l #	93
21) 1,1-Dichloroethane	6.578	63	221206	20.145	ug/l	97
22) cis-1,2-Dichloroethene	7.495	96	155729	19.374	ug/l	92
23) tert-Butyl Alcohol	5.531	59	91849	107.534	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	390869	19.475	ug/l	97
25) Chloroform	7.966	83	260457	19.899	ug/l	98
26) Cyclohexane	8.260	56	172436	19.129	ug/l #	90
29) 1,1-Dichloropropene	8.378	75	180367	18.933	ug/l	97
30) 2-Butanone	7.490	43	281982	111.046	ug/l	91
31) 2,2-Dichloropropane	7.501	77	204068	18.386	ug/l	97
32) 1,1,1-Trichloroethane	8.178	97	242608	19.677	ug/l	96
33) Carbon Tetrachloride	8.366	117	200210	19.202	ug/l	99
34) Benzene	8.613	78	551475	19.171	ug/l	96
35) Methacrylonitrile	7.790	41	63767	22.124	ug/l	92
36) 1,2-Dichloroethane	8.672	62	189293	19.738	ug/l	100
37) Trichloroethene	9.354	130	139478	18.757	ug/l	99
38) Methylcyclohexane	9.607	83	237105	19.330	ug/l	95
39) 1,2-Dichloropropane	9.625	63	128660	19.319	ug/l	98
40) Dibromomethane	9.713	93	99214	18.896	ug/l	93
41) Bromodichloromethane	9.895	83	203577	19.255	ug/l	96
42) Vinyl Acetate	6.613	43	900652m	95.616	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	112567	20.627	ug/l #	91
44) Isopropyl Acetate	8.695	43	198469	19.862	ug/l	91
45) 1,4-Dioxane	9.695	88	52619	423.638	ug/l #	94
46) Methyl methacrylate	9.684	41	90555	20.179	ug/l	87
47) n-amyl Acetate	12.495	43	170001	19.754	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	199939	18.758	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	224107	19.183	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	152580	20.179	ug/l	89
51) Ethyl methacrylate	10.878	69	194784	19.956	ug/l	90
52) 1,3-Dichloropropane	11.166	76	237198	19.402	ug/l	100
53) Dibromochloromethane	11.360	129	152285	19.358	ug/l	97
54) 1,2-Dibromoethane	11.472	107	145402	19.359	ug/l	97
55) 2-Chloroethyl vinyl ether	10.166	63	455455	103.186	ug/l	97
56) Bromoform	12.583	173	92221	19.923	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	592927	108.148	ug/l #	93
59) 2-Hexanone	11.201	43	430258	108.716	ug/l	93
61) Tetrachloroethene	11.107	164	115610	20.076	ug/l	96
62) Toluene	10.631	91	644277	19.547	ug/l	99
64) Chlorobenzene	11.895	112	392863	19.381	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.966	131	142337	19.464	ug/l	93
66) Ethyl Benzene	11.966	91	718142	19.664	ug/l	99
67) m/p-Xylenes	12.072	106	567978	39.528	ug/l	98
68) o-Xylene	12.401	106	280148	19.784	ug/l	95
69) Styrene	12.413	104	445108	19.658	ug/l	97
70) Isopropylbenzene	12.701	105	735917	20.008	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	200725	20.350	ug/l	99
72) 1,2,3-Trichloropropane	13.001	75	175695m	21.408	ug/l	
73) Bromobenzene	12.983	156	151532	19.703	ug/l	91
74) n-propylbenzene	13.036	91	809634	19.687	ug/l	99
75) 2-Chlorotoluene	13.130	91	494871	19.896	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	581881	20.018	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	53848	18.834	ug/l	92
78) 4-Chlorotoluene	13.224	91	465901	19.184	ug/l	99
79) tert-butylbenzene	13.442	119	517422	19.876	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	551179	19.539	ug/l	99
81) sec-Butylbenzene	13.619	105	726801	19.890	ug/l	99
82) p-Isopropyltoluene	13.736	119	574580	19.763	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	278345	19.490	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	266314	19.048	ug/l	98
85) n-Butylbenzene	14.060	91	444830	18.598	ug/l	99
86) Hexachloroethane	14.342	117	102904	18.992	ug/l	93
87) 1,2-Dichlorobenzene	14.107	146	277475	20.016	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	37382	20.856	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	82380	17.248	ug/l	96
90) Hexachlorobutadiene	15.501	225	59494	22.090	ug/l	93
91) Naphthalene	15.648	128	295031	18.083	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	81320	18.487	ug/l	96

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

