

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078729.D
 Acq On : 02 Aug 2023 12:23
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/03/2023
 Supervised By : Semsettin Yesilyurt 08/03/2023

Quant Time: Aug 03 05:31:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	101177	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	556841	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	493907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	226154	29.819	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.400%
60) 4-Bromofluorobenzene	12.853	95	212051	28.648	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.500%
63) Toluene-d8	10.571	98	723882	29.669	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	118208	18.522	ug/l	100
3) Chloromethane	2.371	50	220462	28.064	ug/l	94
4) Vinyl Chloride	2.524	62	221079	20.708	ug/l	95
5) Bromomethane	2.965	94	154364	19.343	ug/l	96
6) Chloroethane	3.136	64	150578	21.657	ug/l	97
7) Trichlorofluoromethane	3.506	101	242837	22.174	ug/l	91
8) Diethyl Ether	3.971	74	81043	22.667	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.383	101	141999	24.156	ug/l	97
10) 1,1-Dichloroethene	4.359	96	128858	22.860	ug/l	98
11) Methyl Iodide	4.600	142	184534	23.290	ug/l	97
12) Methyl Acetate	5.036	43	169775	18.569	ug/l	99
13) Acrolein	4.195	56	93459	95.992	ug/l	99
14) Acrylonitrile	5.736	53	258446	96.534	ug/l	95
15) Acetone	4.442	58	96351	124.213	ug/l	97
16) Carbon Disulfide	4.718	76	300545	18.875	ug/l	97
17) Allyl chloride	5.030	41	155829	20.247	ug/l	96
18) Methylene Chloride	5.289	84	136325	20.158	ug/l	95
19) trans-1,2-Dichloroethene	5.794	96	120338	18.465	ug/l	95
20) Diisopropyl ether	6.683	45	347629	20.060	ug/l	97
21) 1,1-Dichloroethane	6.571	63	227793	19.852	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	146356	19.996	ug/l	97
23) tert-Butyl Alcohol	5.530	59	99056m	90.544	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	366583	19.340	ug/l	97
25) Chloroform	7.977	83	246001	20.250	ug/l	95
26) Cyclohexane	8.265	56	173110	20.480	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	184557	22.525	ug/l	98
30) 2-Butanone	7.494	43	336089	103.764	ug/l	99
31) 2,2-Dichloropropane	7.500	77	205616	21.869	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	224104	21.618	ug/l	99
33) Carbon Tetrachloride	8.371	117	204210	22.179	ug/l	97
34) Benzene	8.612	78	536328	21.791	ug/l	97
35) Methacrylonitrile	7.788	41	69440	19.523	ug/l	86
36) 1,2-Dichloroethane	8.677	62	189625	21.937	ug/l	99
37) Trichloroethene	9.359	130	143241	20.739	ug/l	98
38) Methylcyclohexane	9.606	83	172355	20.473	ug/l	98
39) 1,2-Dichloropropane	9.630	63	136758	20.727	ug/l	97
40) Dibromomethane	9.718	93	95985	21.019	ug/l	96
41) Bromodichloromethane	9.894	83	195402	21.403	ug/l	97
42) Vinyl Acetate	6.612	43	1098207	105.462	ug/l	99

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 ALS Vial : 1 Sample Multiplier: 1

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 ClientSampleId :
 VSTDCCC020

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	130174	19.440	ug/l	97
44) Isopropyl Acetate	8.694	43	240055	20.433	ug/l	99
45) 1,4-Dioxane	9.700	88	41039	379.745	ug/l	94
46) Methyl methacrylate	9.688	41	110015	20.449	ug/l	97
47) n-amyl Acetate	12.500	43	178255	19.701	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	197802	20.300	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	224207	21.664	ug/l	94
50) 1,1,2-Trichloroethane	11.024	97	132428	20.486	ug/l	98
51) Ethyl methacrylate	10.877	69	174738	19.744	ug/l	87
52) 1,3-Dichloropropane	11.165	76	218306	18.789	ug/l	99
53) Dibromochloromethane	11.365	129	151057	20.685	ug/l	97
54) 1,2-Dibromoethane	11.476	107	139139	21.435	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	303897	107.759	ug/l	100
56) Bromoform	12.582	173	97562	20.418	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	700474	94.752	ug/l	99
59) 2-Hexanone	11.200	43	503280	89.911	ug/l	99
61) Tetrachloroethene	11.106	164	132244	20.362	ug/l	94
62) Toluene	10.635	91	606054	20.400	ug/l	100
64) Chlorobenzene	11.894	112	362545	20.902	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	140636	20.559	ug/l	98
66) Ethyl Benzene	11.971	91	618408	20.654	ug/l	98
67) m/p-Xylenes	12.076	106	474859	41.518	ug/l	99
68) o-Xylene	12.406	106	227398	19.540	ug/l	99
69) Styrene	12.418	104	360364	19.245	ug/l	99
70) Isopropylbenzene	12.700	105	586102	20.358	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	176770	18.902	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	139009m	17.719	ug/l	
73) Bromobenzene	12.988	156	138266	19.594	ug/l	97
74) n-propylbenzene	13.041	91	636908	19.960	ug/l	100
75) 2-Chlorotoluene	13.129	91	402169	18.250	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	477330	18.570	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	49754	18.146	ug/l	85
78) 4-Chlorotoluene	13.229	91	375384	17.642	ug/l	100
79) tert-butylbenzene	13.441	119	388632	17.566	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	457346	18.630	ug/l	99
81) sec-Butylbenzene	13.623	105	509878	17.980	ug/l	99
82) p-Isopropyltoluene	13.735	119	418474	17.975	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	226268	18.082	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	213435	18.219	ug/l	98
85) n-Butylbenzene	14.059	91	284000	17.592	ug/l	99
86) Hexachloroethane	14.335	117	78760	18.568	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	222777	19.022	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	27945	17.595	ug/l	95
89) 1,2,4-Trichlorobenzene	15.394	180	57996	17.356	ug/l	96
90) Hexachlorobutadiene	15.506	225	48593	19.089	ug/l	99
91) Naphthalene	15.647	128	158879	15.695	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	68020	17.887	ug/l	100

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

