

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078366.D
 Acq On : 23 Jun 2023 09:58
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2023
 Supervised By : Mahesh Dadoda 06/26/2023

Quant Time: Jun 24 00:30:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:28:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	82439	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	443939	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	397724	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	180296	29.043	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.800%		
60) 4-Bromofluorobenzene	12.853	95	165377	29.513	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.367%		
63) Toluene-d8	10.571	98	581842	30.193	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.633%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	93475	18.721	ug/l	99
3) Chloromethane	2.371	50	116899	19.413	ug/l	90
4) Vinyl Chloride	2.524	62	142373	19.221	ug/l	99
5) Bromomethane	2.971	94	96735	16.065	ug/l	96
6) Chloroethane	3.130	64	106213	20.132	ug/l	97
7) Trichlorofluoromethane	3.506	101	163817	18.791	ug/l	95
8) Diethyl Ether	3.971	74	53386	18.345	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.383	101	85374	18.015	ug/l	97
10) 1,1-Dichloroethene	4.353	96	84535	18.193	ug/l	94
11) Methyl Iodide	4.600	142	122121	18.551	ug/l	99
12) Methyl Acetate	5.042	43	132932	18.446	ug/l	96
13) Acrolein	4.189	56	82499	91.397	ug/l	99
14) Acrylonitrile	5.736	53	179976	90.959	ug/l	98
15) Acetone	4.436	58	53582	96.698	ug/l	93
16) Carbon Disulfide	4.724	76	222409	17.516	ug/l	98
17) Allyl chloride	5.036	41	105884	18.131	ug/l	92
18) Methylene Chloride	5.283	84	101359	18.409	ug/l	97
19) trans-1,2-Dichloroethene	5.794	96	91345	17.813	ug/l	92
20) Diisopropyl ether	6.689	45	252935	18.067	ug/l	98
21) 1,1-Dichloroethane	6.577	63	168663	18.163	ug/l #	95
22) cis-1,2-Dichloroethene	7.500	96	104831	17.970	ug/l	99
23) tert-Butyl Alcohol	5.536	59	63658	87.508	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	262201	17.896	ug/l	97
25) Chloroform	7.977	83	181938	18.540	ug/l	99
26) Cyclohexane	8.265	56	121887	18.340	ug/l #	100
29) 1,1-Dichloropropene	8.383	75	131075	19.046	ug/l	100
30) 2-Butanone	7.494	43	226498	93.898	ug/l	98
31) 2,2-Dichloropropane	7.500	77	140230	19.058	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	160806	19.177	ug/l	98
33) Carbon Tetrachloride	8.371	117	141026	19.289	ug/l	95
34) Benzene	8.612	78	393564	19.178	ug/l	99
35) Methacrylonitrile	7.788	41	49262	17.796	ug/l	94
36) 1,2-Dichloroethane	8.677	62	130600	18.666	ug/l	99
37) Trichloroethene	9.359	130	97794	18.651	ug/l	93
38) Methylcyclohexane	9.606	83	111216	18.394	ug/l	96
39) 1,2-Dichloropropane	9.630	63	98506	19.162	ug/l	99
40) Dibromomethane	9.718	93	69539	18.746	ug/l	98
41) Bromodichloromethane	9.894	83	140270	19.464	ug/l	97
42) Vinyl Acetate	6.612	43	729840	94.980	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	98154m	19.838	ug/l	
44) Isopropyl Acetate	8.694	43	167308	18.238	ug/l	98
45) 1,4-Dioxane	9.700	88	31005	392.371	ug/l	94
46) Methyl methacrylate	9.688	41	81655	19.996	ug/l	91
47) n-amyl Acetate	12.500	43	126156	18.708	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	138096	18.668	ug/l	94
49) cis-1,3-Dichloropropene	10.318	75	157016	19.256	ug/l	100
50) 1,1,2-Trichloroethane	11.024	97	95672	19.238	ug/l	98
51) Ethyl methacrylate	10.882	69	126008	18.522	ug/l	88
52) 1,3-Dichloropropane	11.171	76	160175	19.191	ug/l	99
53) Dibromochloromethane	11.365	129	101143	19.176	ug/l	95
54) 1,2-Dibromoethane	11.471	107	95060	18.966	ug/l	97
55) 2-Chloroethyl vinyl ether	10.171	63	254052	101.223	ug/l	98
56) Bromoform	12.582	173	61707	19.112	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	485385	91.388	ug/l	100
59) 2-Hexanone	11.200	43	333962	91.044	ug/l	99
61) Tetrachloroethene	11.112	164	80076	18.374	ug/l	95
62) Toluene	10.635	91	431466	18.640	ug/l	100
64) Chlorobenzene	11.900	112	250795	18.280	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	95435	18.039	ug/l	98
66) Ethyl Benzene	11.971	91	434332	18.440	ug/l	96
67) m/p-Xylenes	12.076	106	335671	37.691	ug/l	99
68) o-Xylene	12.400	106	158512	18.355	ug/l	95
69) Styrene	12.418	104	255453	18.682	ug/l	98
70) Isopropylbenzene	12.700	105	395686	18.646	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	129938	18.829	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	98719m	16.229	ug/l	
73) Bromobenzene	12.988	156	90840	17.905	ug/l	97
74) n-propylbenzene	13.041	91	423945	18.372	ug/l	99
75) 2-Chlorotoluene	13.129	91	277087	17.739	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	320243	18.200	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	32540	17.502	ug/l	76
78) 4-Chlorotoluene	13.223	91	252339	17.263	ug/l	99
79) tert-butylbenzene	13.441	119	249025	17.204	ug/l	95
80) 1,2,4-Trimethylbenzene	13.488	105	306516	18.435	ug/l	99
81) sec-Butylbenzene	13.623	105	327218	18.121	ug/l	99
82) p-Isopropyltoluene	13.735	119	266136	18.323	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	146068	18.165	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	140211	18.034	ug/l	100
85) n-Butylbenzene	14.059	91	188646	17.583	ug/l	97
86) Hexachloroethane	14.335	117	52579	18.808	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	148102	18.581	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	18713	17.997	ug/l	95
89) 1,2,4-Trichlorobenzene	15.400	180	39055	16.069	ug/l	98
90) Hexachlorobutadiene	15.506	225	26964	16.318	ug/l	98
91) Naphthalene	15.647	128	111883	14.049	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	43765	15.565	ug/l	94

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

