

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079297.D
 Acq On : 19 Sep 2023 11:00
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/19/2023
 Supervised By : Mahesh Dadoda 09/20/2023

Quant Time: Sep 19 15:40:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	38831	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	202403	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	188071	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	102147	35.013	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 116.700%#			
60) 4-Bromofluorobenzene	12.853	95	86023	31.043	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.467%			
63) Toluene-d8	10.571	98	278603	31.698	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	42906	19.812	ug/l	99
3) Chloromethane	2.365	50	51816	23.861	ug/l #	83
4) Vinyl Chloride	2.518	62	57384	26.709	ug/l	95
5) Bromomethane	2.953	94	31662	24.011	ug/l	93
6) Chloroethane	3.124	64	41626	31.635	ug/l #	87
7) Trichlorofluoromethane	3.500	101	79550	31.100	ug/l	98
8) Diethyl Ether	3.965	74	26077	27.805	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.377	101	43790	31.066	ug/l	94
10) 1,1-Dichloroethene	4.342	96	40784	29.861	ug/l	94
11) Methyl Iodide	4.589	142	43970	25.557	ug/l	98
12) Methyl Acetate	5.036	43	88437	27.785	ug/l	99
13) Acrolein	4.183	56	40996	141.419	ug/l	99
14) Acrylonitrile	5.724	53	118202	126.580	ug/l	99
15) Acetone	4.430	58	39004	160.116	ug/l	89
16) Carbon Disulfide	4.712	76	111936	27.736	ug/l	97
17) Allyl chloride	5.030	41	58302	26.565	ug/l	91
18) Methylene Chloride	5.277	84	51067	27.877	ug/l	94
19) trans-1,2-Dichloroethene	5.794	96	45357	26.543	ug/l	99
20) Diisopropyl ether	6.677	45	155887	23.793	ug/l	95
21) 1,1-Dichloroethane	6.577	63	94582	24.642	ug/l	100
22) cis-1,2-Dichloroethene	7.494	96	54175	20.272	ug/l	93
23) tert-Butyl Alcohol	5.530	59	36848m	102.575	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	135791	25.191	ug/l	94
25) Chloroform	7.971	83	100920	21.804	ug/l	99
26) Cyclohexane	8.259	56	67171	19.299	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	69240	21.337	ug/l	97
30) 2-Butanone	7.488	43	162188	99.365	ug/l	97
31) 2,2-Dichloropropane	7.494	77	74657	23.064	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	84466	22.093	ug/l	96
33) Carbon Tetrachloride	8.371	117	73097	22.257	ug/l	94
34) Benzene	8.612	78	210062	20.374	ug/l	99
35) Methacrylonitrile	7.783	41	34491	19.625	ug/l	93
36) 1,2-Dichloroethane	8.671	62	79840	23.480	ug/l	95
37) Trichloroethene	9.353	130	49527	20.323	ug/l	99
38) Methylcyclohexane	9.606	83	60939	18.784	ug/l	96
39) 1,2-Dichloropropane	9.624	63	54840	20.620	ug/l #	88
40) Dibromomethane	9.712	93	38025	21.680	ug/l	94
41) Bromodichloromethane	9.894	83	79692	22.793	ug/l	92
42) Vinyl Acetate	6.612	43	435918	112.455	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079297.D
 Acq On : 19 Sep 2023 11:00
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/19/2023
 Supervised By : Mahesh Dadoda 09/20/2023

Quant Time: Sep 19 15:40:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	69591	22.449	ug/l	97
44) Isopropyl Acetate	8.694	43	102321	18.349	ug/l	99
45) 1,4-Dioxane	9.694	88	18484	332.997	ug/l #	59
46) Methyl methacrylate	9.688	41	48869	19.615	ug/l	90
47) n-amyl Acetate	12.500	43	77441	19.746	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	73805	19.512	ug/l	91
49) cis-1,3-Dichloropropene	10.318	75	83710	21.217	ug/l	90
50) 1,1,2-Trichloroethane	11.018	97	52280	21.248	ug/l	94
51) Ethyl methacrylate	10.876	69	67735m	17.825	ug/l	
52) 1,3-Dichloropropane	11.165	76	90071	21.442	ug/l	98
53) Dibromochloromethane	11.365	129	52644	20.400	ug/l	97
54) 1,2-Dibromoethane	11.471	107	49616	19.858	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	114101	84.506	ug/l	98
56) Bromoform	12.582	173	35378	19.674	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	334902	97.039	ug/l	94
59) 2-Hexanone	11.200	43	236144	97.429	ug/l	94
61) Tetrachloroethene	11.106	164	43843	21.424	ug/l	94
62) Toluene	10.635	91	224404	20.493	ug/l	100
64) Chlorobenzene	11.894	112	129783	20.316	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	51300	20.975	ug/l	99
66) Ethyl Benzene	11.970	91	228772	20.749	ug/l	97
67) m/p-Xylenes	12.076	106	176129	42.455	ug/l	98
68) o-Xylene	12.406	106	81674	20.414	ug/l	95
69) Styrene	12.418	104	132776	20.806	ug/l	97
70) Isopropylbenzene	12.700	105	213687	21.012	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	74938	19.698	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	61189m	19.116	ug/l	
73) Bromobenzene	12.982	156	51620	20.320	ug/l	99
74) n-propylbenzene	13.041	91	254743	21.985	ug/l	98
75) 2-Chlorotoluene	13.129	91	157185	21.156	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	182528	21.707	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	19360	17.178	ug/l	82
78) 4-Chlorotoluene	13.223	91	148561	21.176	ug/l	97
79) tert-butylbenzene	13.441	119	141880	20.556	ug/l	93
80) 1,2,4-Trimethylbenzene	13.488	105	178049	22.172	ug/l	99
81) sec-Butylbenzene	13.623	105	204654	21.671	ug/l	99
82) p-Isopropyltoluene	13.735	119	163947	21.978	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	84972	21.062	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	78702	20.800	ug/l	100
85) n-Butylbenzene	14.059	91	122572	21.574	ug/l	95
86) Hexachloroethane	14.335	117	34126	23.106	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	82432	20.704	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11491	17.870	ug/l	89
89) 1,2,4-Trichlorobenzene	15.847	180	26115m	15.328	ug/l	
90) Hexachlorobutadiene	15.506	225	20598	19.904	ug/l	97
91) Naphthalene	15.641	128	53151	11.938	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	26118	15.330	ug/l	92

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

