

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078715.D
 Acq On : 01 Aug 2023 14:11
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

Quant Time: Aug 02 02:51:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 02:50:16 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	111579	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	663817	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	541485	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	245488	29.199	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.333%		
60) 4-Bromofluorobenzene	12.853	95	226111	28.983	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.600%		
63) Toluene-d8	10.571	98	764641	28.514	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.033%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	125185	20.282	ug/l	98
3) Chloromethane	2.371	50	174778	22.789	ug/l	93
4) Vinyl Chloride	2.518	62	221526	22.101	ug/l	96
5) Bromomethane	2.965	94	160964	20.962	ug/l	98
6) Chloroethane	3.124	64	136066	20.660	ug/l	99
7) Trichlorofluoromethane	3.501	101	225908	21.696	ug/l	98
8) Diethyl Ether	3.977	74	71923	21.389	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.383	101	115675	20.862	ug/l	93
10) 1,1-Dichloroethene	4.348	96	116719	21.931	ug/l	98
11) Methyl Iodide	4.600	142	157787	21.401	ug/l	96
12) Methyl Acetate	5.042	43	183351	23.320	ug/l	97
13) Acrolein	4.189	56	97788	105.358	ug/l	100
14) Acrylonitrile	5.736	53	268053	117.694	ug/l	98
15) Acetone	4.448	58	76220	111.976	ug/l	98
16) Carbon Disulfide	4.718	76	331012	21.772	ug/l	100
17) Allyl chloride	5.030	41	168736m	22.761	ug/l	
18) Methylene Chloride	5.289	84	137353	23.891	ug/l #	96
19) trans-1,2-Dichloroethene	5.795	96	130134m	20.993	ug/l	
20) Diisopropyl ether	6.683	45	356727	21.956	ug/l	96
21) 1,1-Dichloroethane	6.577	63	231420	21.343	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	154211	22.403	ug/l	99
23) tert-Butyl Alcohol	5.536	59	110918	106.448	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	388674	21.674	ug/l	95
25) Chloroform	7.971	83	248246	21.922	ug/l	98
26) Cyclohexane	8.265	56	184890	23.367	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	181647	22.159	ug/l	100
30) 2-Butanone	7.494	43	364464	112.907	ug/l	98
31) 2,2-Dichloropropane	7.494	77	213490	22.783	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	235028	22.429	ug/l	98
33) Carbon Tetrachloride	8.371	117	204787	22.176	ug/l	99
34) Benzene	8.612	78	547720	22.164	ug/l	98
35) Methacrylonitrile	7.789	41	78940	21.977	ug/l	91
36) 1,2-Dichloroethane	8.677	62	197695	22.677	ug/l	99
37) Trichloroethene	9.359	130	148253	21.778	ug/l	96
38) Methylcyclohexane	9.606	83	178190	21.896	ug/l	99
39) 1,2-Dichloropropane	9.630	63	139491	21.510	ug/l	93
40) Dibromomethane	9.718	93	100284	21.808	ug/l	98
41) Bromodichloromethane	9.894	83	205797	22.362	ug/l	96
42) Vinyl Acetate	6.618	43	1166766	107.918	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078715.D
 Acq On : 01 Aug 2023 14:11
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

Quant Time: Aug 02 02:51:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 02:50:16 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	168936	24.823	ug/l	99
44) Isopropyl Acetate	8.700	43	270241	22.694	ug/l	94
45) 1,4-Dioxane	9.700	88	44886	419.837	ug/l	90
46) Methyl methacrylate	9.688	41	115888	21.797	ug/l	99
47) n-amyl Acetate	12.500	43	197362	22.655	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	226851	23.209	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	228459	22.060	ug/l	97
50) 1,1,2-Trichloroethane	11.029	97	153663	23.241	ug/l	99
51) Ethyl methacrylate	10.877	69	205290	23.221	ug/l	92
52) 1,3-Dichloropropane	11.165	76	247530	20.610	ug/l	99
53) Dibromochloromethane	11.365	129	171229	23.424	ug/l	99
54) 1,2-Dibromoethane	11.477	107	153795	23.561	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	331153	117.537	ug/l	99
56) Bromoform	12.582	173	101261	22.007	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	749453	107.891	ug/l	99
59) 2-Hexanone	11.200	43	586177	111.171	ug/l	98
61) Tetrachloroethene	11.106	164	131183	21.189	ug/l	96
62) Toluene	10.635	91	609796	21.941	ug/l	100
64) Chlorobenzene	11.894	112	363027	22.594	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	145486	22.806	ug/l	99
66) Ethyl Benzene	11.971	91	633415	23.055	ug/l	98
67) m/p-Xylenes	12.076	106	478310	45.743	ug/l	100
68) o-Xylene	12.400	106	233511	22.346	ug/l	99
69) Styrene	12.418	104	362152	22.261	ug/l	99
70) Isopropylbenzene	12.700	105	584398	22.494	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	188073	21.628	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	152784m	18.537	ug/l	
73) Bromobenzene	12.982	156	143220	22.284	ug/l	95
74) n-propylbenzene	13.041	91	633951	22.058	ug/l	98
75) 2-Chlorotoluene	13.129	91	401318	21.963	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	477671	22.347	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	54601	22.584	ug/l	92
78) 4-Chlorotoluene	13.223	91	404008	23.063	ug/l	98
79) tert-butylbenzene	13.441	119	404663	21.792	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	466754	23.001	ug/l	100
81) sec-Butylbenzene	13.623	105	509710	21.554	ug/l	97
82) p-Isopropyltoluene	13.735	119	441108	22.867	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	242064	23.512	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	225343	23.602	ug/l	99
85) n-Butylbenzene	14.059	91	311900	23.911	ug/l	100
86) Hexachloroethane	14.335	117	82620	22.280	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	229845	23.775	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	29657	22.529	ug/l	99
89) 1,2,4-Trichlorobenzene	15.400	180	66721	23.928	ug/l	98
90) Hexachlorobutadiene	15.506	225	52821	22.121	ug/l	97
91) Naphthalene	15.641	128	204828	23.444	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	77545	23.141	ug/l	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
Data File : VN078715.D
Acq On : 01 Aug 2023 14:11
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Quant Time: Aug 02 02:51:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 02 02:50:16 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 08/02/2023
Supervised By : Mahesh Dadoda 08/02/2023

