

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079582.D
 Acq On : 17 Oct 2023 15:23
 Operator : JC\MD
 Sample : 04699-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2023

Quant Time: Oct 18 02:30:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	21670	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	157938	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	184521	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	92091	29.890	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.633%		
60) 4-Bromofluorobenzene	12.853	95	94593	28.033	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.433%		
63) Toluene-d8	10.570	98	243942	30.852	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.833%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	15571	4.955	ug/l	88
3) Chloromethane	2.365	50	21217	5.209	ug/l	98
4) Vinyl Chloride	2.518	62	21936	4.990	ug/l #	87
5) Bromomethane	2.953	94	14730	5.404	ug/l	100
6) Chloroethane	3.118	64	18337	5.927	ug/l #	83
7) Trichlorofluoromethane	3.494	101	28983	5.403	ug/l	100
8) Diethyl Ether	3.959	74	10141	5.216	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	15606	5.085	ug/l	71
10) 1,1-Dichloroethene	4.347	96	14257	4.883	ug/l	95
11) Methyl Iodide	4.606	142	13932	4.310	ug/l	95
12) Methyl Acetate	5.030	43	37450	5.320	ug/l	100
13) Acrolein	4.194	56	15564	26.749	ug/l #	45
14) Acrylonitrile	5.724	53	42116m	24.985	ug/l	
15) Acetone	4.441	58	12350	23.128	ug/l	96
16) Carbon Disulfide	4.712	76	43488	4.884	ug/l	97
17) Allyl chloride	5.030	41	22276	4.948	ug/l	95
18) Methylene Chloride	5.277	84	19229	5.350	ug/l	94
19) trans-1,2-Dichloroethene	5.794	96	16180	4.953	ug/l	95
20) Diisopropyl ether	6.677	45	50235	4.706	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	32656	5.034	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	18350	4.877	ug/l	99
23) tert-Butyl Alcohol	5.530	59	14457	25.648	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	46635	4.760	ug/l #	83
25) Chloroform	7.965	83	32126	4.902	ug/l	93
26) Cyclohexane	8.259	56	22450	4.579	ug/l #	99
29) 1,1-Dichloropropene	8.376	75	23655	5.125	ug/l	85
30) 2-Butanone	7.494	43	57246	24.744	ug/l #	82
31) 2,2-Dichloropropane	7.500	77	25123	4.828	ug/l #	84
32) 1,1,1-Trichloroethane	8.171	97	27615	5.034	ug/l	98
33) Carbon Tetrachloride	8.365	117	23957	5.135	ug/l	93
34) Benzene	8.612	78	70587	5.034	ug/l #	85
35) Methacrylonitrile	7.782	41	11902	4.890	ug/l	84
36) 1,2-Dichloroethane	8.682	62	27297	5.452	ug/l	100
37) Trichloroethene	9.353	130	17222	5.254	ug/l	95
38) Methylcyclohexane	9.600	83	19811	4.458	ug/l	92
39) 1,2-Dichloropropane	9.623	63	19095	5.160	ug/l	100
40) Dibromomethane	9.718	93	12571	5.176	ug/l	96
41) Bromodichloromethane	9.894	83	25511	5.069	ug/l	99
42) Vinyl Acetate	6.606	43	133765	22.792	ug/l #	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079582.D
 Acq On : 17 Oct 2023 15:23
 Operator : JC\MD
 Sample : 04699-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2023

Quant Time: Oct 18 02:30:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	23574m	5.419	ug/l	
44) Isopropyl Acetate	8.694	43	37567	4.858	ug/l	99
45) 1,4-Dioxane	9.700	88	5537	91.467	ug/l #	41
46) Methyl methacrylate	9.688	41	16707	4.870	ug/l	96
47) n-amyl Acetate	12.500	43	23816	4.267	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	24499	4.815	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	26334	4.733	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	17098	5.075	ug/l	97
51) Ethyl methacrylate	10.876	69	21369	4.597	ug/l	94
52) 1,3-Dichloropropane	11.170	76	29896	5.009	ug/l	100
53) Dibromochloromethane	11.359	129	17082	4.961	ug/l	97
54) 1,2-Dibromoethane	11.476	107	17144	5.158	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	33265	18.757	ug/l	97
56) Bromoform	12.582	173	11285	4.954	ug/l #	95
58) 4-Methyl-2-Pentanone	10.447	43	111619	25.934	ug/l	98
59) 2-Hexanone	11.200	43	77041	24.400	ug/l	98
61) Tetrachloroethene	11.106	164	13877	5.477	ug/l	94
62) Toluene	10.635	91	73957	5.244	ug/l	99
64) Chlorobenzene	11.894	112	42579	5.206	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.964	131	16682	5.354	ug/l	97
66) Ethyl Benzene	11.970	91	70587	4.858	ug/l	100
67) m/p-Xylenes	12.076	106	47325	8.806	ug/l	92
68) o-Xylene	12.400	106	24916	4.850	ug/l	95
69) Styrene	12.417	104	34566	4.238	ug/l	95
70) Isopropylbenzene	12.700	105	58137	4.409	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	26408	5.633	ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	22249m	5.226	ug/l	
73) Bromobenzene	12.988	156	14659	4.733	ug/l	94
74) n-propylbenzene	13.041	91	67631	4.406	ug/l	100
75) 2-Chlorotoluene	13.129	91	43359	4.544	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	47847	4.439	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	6102	4.696	ug/l	92
78) 4-Chlorotoluene	13.223	91	37353	4.143	ug/l	99
79) tert-butylbenzene	13.441	119	42311	4.883	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	42783	4.097	ug/l	97
81) sec-Butylbenzene	13.617	105	54306	4.464	ug/l	98
82) p-Isopropyltoluene	13.735	119	40417	4.188	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	21527	4.227	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	19404	3.974	ug/l	98
85) n-Butylbenzene	14.058	91	26649	3.534	ug/l	98
86) Hexachloroethane	14.341	117	10858	5.205	ug/l	98
87) 1,2-Dichlorobenzene	14.111	146	20448	4.039	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	3335	4.669	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	5048m	2.829	ug/l	
90) Hexachlorobutadiene	15.505	225	5684	4.497	ug/l	92
91) Naphthalene	15.641	128	12520	2.720	ug/l #	96
92) 1,2,3-Trichlorobenzene	15.841	180	5048m	2.829	ug/l	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
Data File : VN079582.D
Acq On : 17 Oct 2023 15:23
Operator : JC\MD
Sample : 04699-08 5.0PPB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2023

Quant Time: Oct 18 02:30:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/18/2023
Supervised By :Mahesh Dadoda 10/20/2023

