

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036553.D
 Acq On : 14 Jul 2023 10:57
 Operator : JC/MD
 Sample : 03572-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2023

Quant Time: Jul 17 01:27:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/17/2023
 Supervised By : Semsettin Yesilyurt 07/17/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	30451	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	157447	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	147517	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	74116	29.326	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.767%		
60) 4-Bromofluorobenzene	11.079	95	68907	28.797	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.000%		
63) Toluene-d8	8.646	98	199986	29.461	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3208	1.886	ug/l	98
3) Chloromethane	1.300	50	5161	2.217	ug/l	97
4) Vinyl Chloride	1.373	62	4593	1.914	ug/l	100
5) Bromomethane	1.611	94	5717	2.326	ug/l	96
6) Chloroethane	1.684	64	3601	2.204	ug/l	92
7) Trichlorofluoromethane	1.885	101	7802	2.004	ug/l	97
8) Diethyl Ether	2.135	74	3984	2.462	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.330	101	3547	2.012	ug/l	93
10) 1,1-Dichloroethene	2.318	96	4027	2.260	ug/l	98
11) Methyl Iodide	2.452	142	3533	1.740	ug/l	84
12) Methyl Acetate	2.702	43	9819	2.344	ug/l	96
13) Acrolein	2.245	56	3325	9.677	ug/l	93
14) Acrylonitrile	3.068	53	14288	12.169	ug/l	97
15) Acetone	2.385	58	4206	12.653	ug/l	97
16) Carbon Disulfide	2.513	76	9483	2.193	ug/l #	92
17) Allyl chloride	2.666	41	6386	2.020	ug/l	96
18) Methylene Chloride	2.788	84	5070	2.363	ug/l	93
19) trans-1,2-Dichloroethene	3.099	96	4126	2.118	ug/l	93
20) Diisopropyl ether	3.763	45	15586	2.419	ug/l	98
21) 1,1-Dichloroethane	3.611	63	8321	2.215	ug/l #	95
22) cis-1,2-Dichloroethene	4.489	96	5359	2.286	ug/l	97
23) tert-Butyl Alcohol	2.971	59	5858	10.744	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	14709	2.270	ug/l	100
25) Chloroform	5.092	83	9200	2.369	ug/l	97
26) Cyclohexane	5.464	56	5452	1.892	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	5515	2.323	ug/l	92
30) 2-Butanone	4.568	43	19385	12.967	ug/l	100
31) 2,2-Dichloropropane	4.476	77	6019	2.312	ug/l #	70
32) 1,1,1-Trichloroethane	5.385	97	6392	2.266	ug/l #	80
33) Carbon Tetrachloride	5.677	117	5242	2.178	ug/l #	86
34) Benzene	6.043	78	18834	2.574	ug/l	98
35) Methacrylonitrile	4.928	41	3918m	2.526	ug/l	
36) 1,2-Dichloroethane	6.092	62	7217	2.568	ug/l #	82
37) Trichloroethene	7.128	130	4788	2.486	ug/l #	74
38) Methylcyclohexane	7.378	83	5727	2.073	ug/l	97
39) 1,2-Dichloropropane	7.433	63	5019	2.530	ug/l	89
40) Dibromomethane	7.580	93	3676	2.558	ug/l	95
41) Bromodichloromethane	7.823	83	6346	2.433	ug/l #	82
42) Vinyl Acetate	3.727	43	55868	12.373	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036553.D
 Acq On : 14 Jul 2023 10:57
 Operator : JC/MD
 Sample : 03572-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2023

Quant Time: Jul 17 01:27:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/17/2023
 Supervised By :Semsettin Yesilyurt 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.714	43	7744	2.661	ug/l	#	90
44) Isopropyl Acetate	6.342	43	11779m	2.538	ug/l		
45) 1,4-Dioxane	7.695	88	2374	45.068	ug/l	#	1
46) Methyl methacrylate	7.695	41	5070	2.286	ug/l		89
47) n-amyl Acetate	10.841	43	9131	2.320	ug/l		97
48) t-1,3-Dichloropropene	8.982	75	6120	2.140	ug/l		93
49) cis-1,3-Dichloropropene	8.372	75	6623	2.144	ug/l		93
50) 1,1,2-Trichloroethane	9.152	97	4798	2.460	ug/l		93
51) Ethyl methacrylate	9.116	69	7268	2.373	ug/l		94
52) 1,3-Dichloropropane	9.311	76	8949	2.719	ug/l		96
53) Dibromochloromethane	9.518	129	4282	2.175	ug/l		91
54) 1,2-Dibromoethane	9.610	107	5130	2.504	ug/l		94
55) 2-Chloroethyl vinyl ether	8.244	63	20930	12.708	ug/l		98
56) Bromoform	10.799	173	2746	2.005	ug/l	#	93
58) 4-Methyl-2-Pentanone	8.573	43	37372	12.251	ug/l		99
59) 2-Hexanone	9.433	43	27987	12.060	ug/l		97
61) Tetrachloroethene	9.274	164	4176	2.364	ug/l		92
62) Toluene	8.720	91	21158	2.556	ug/l		95
64) Chlorobenzene	10.079	112	12199	2.367	ug/l		93
65) 1,1,1,2-Tetrachloroethane	10.164	131	4451	2.392	ug/l		93
66) Ethyl Benzene	10.195	91	21422	2.381	ug/l		99
67) m/p-Xylenes	10.305	106	15347	4.376	ug/l		99
68) o-Xylene	10.646	106	8167	2.347	ug/l		99
69) Styrene	10.658	104	12485	2.213	ug/l		97
70) Isopropylbenzene	10.963	105	18533	2.138	ug/l		98
71) 1,1,2,2-Tetrachloroethane	11.213	83	7988	2.525	ug/l		97
72) 1,2,3-Trichloropropane	11.237	75	6643m	2.266	ug/l		
73) Bromobenzene	11.201	156	5203	2.428	ug/l		96
74) n-propylbenzene	11.305	91	20945	2.053	ug/l		98
75) 2-Chlorotoluene	11.365	91	14661	2.363	ug/l		99
76) 1,3,5-Trimethylbenzene	11.451	105	16067	2.157	ug/l		100
77) t-1,4-Dichloro-2-butene	11.018	75	1570	1.631	ug/l		84
78) 4-Chlorotoluene	11.457	91	15921	2.254	ug/l		100
79) tert-butylbenzene	11.713	119	14561	2.060	ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	16246	2.201	ug/l		97
81) sec-Butylbenzene	11.890	105	18009	2.024	ug/l		97
82) p-Isopropyltoluene	12.012	119	14556	1.966	ug/l		97
83) 1,3-Dichlorobenzene	11.969	146	9102	2.284	ug/l		98
84) 1,4-Dichlorobenzene	12.042	146	9123	2.297	ug/l		97
85) n-Butylbenzene	12.329	91	12088	1.794	ug/l		97
86) Hexachloroethane	12.542	117	2086	1.702	ug/l		99
87) 1,2-Dichlorobenzene	12.335	146	9288	2.323	ug/l		94
88) 1,2-Dibromo-3-Chloropr...	12.944	75	1425	2.003	ug/l		99
89) 1,2,4-Trichlorobenzene	13.591	180	5092	2.020	ug/l		97
90) Hexachlorobutadiene	13.725	225	1908	2.084	ug/l		92
91) Naphthalene	13.774	128	18041	2.039	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	5033	1.978	ug/l		95

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

