

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041868.D
 Acq On : 14 Jun 2024 09:53
 Operator : JC/MD
 Sample : VX0614WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0614WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 14 10:19:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	30635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	181777	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	171189	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	67402m	27.939	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.133%	
60) 4-Bromofluorobenzene	11.079	95	82507	30.874	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	102.900%	
63) Toluene-d8	8.646	98	210673	28.709	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	95.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30485	19.025	ug/l	98
3) Chloromethane	1.300	50	35601	20.289	ug/l	98
4) Vinyl Chloride	1.373	62	37576	20.340	ug/l	96
5) Bromomethane	1.599	94	20254	17.237	ug/l	99
6) Chloroethane	1.666	64	17341	18.566	ug/l	95
7) Trichlorofluoromethane	1.867	101	57891	20.645	ug/l	99
8) Diethyl Ether	2.135	74	24104	23.018	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.318	101	38061	23.407	ug/l	97
10) 1,1-Dichloroethene	2.306	96	35469	22.630	ug/l	95
11) Methyl Iodide	2.440	142	44607	23.895	ug/l	95
12) Methyl Acetate	2.708	43	68176	28.881	ug/l	99
13) Acrolein	2.239	56	27393	95.322	ug/l	98
14) Acrylonitrile	3.068	53	117390	113.109	ug/l	99
15) Acetone	2.391	58	35471	127.560	ug/l	82
16) Carbon Disulfide	2.501	76	61523	17.385	ug/l	98
17) Allyl chloride	2.654	41	57289	20.597	ug/l	88
18) Methylene Chloride	2.788	84	43398	23.280	ug/l	87
19) trans-1,2-Dichloroethene	3.086	96	36072	20.070	ug/l	92
20) Diisopropyl ether	3.763	45	122970	21.042	ug/l	91
21) 1,1-Dichloroethane	3.605	63	68533	20.895	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	45942	21.036	ug/l	93
23) tert-Butyl Alcohol	3.086	59	875	1.987	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	120423	20.579	ug/l	91
25) Chloroform	5.086	83	71699	20.520	ug/l	99
26) Cyclohexane	5.458	56	55330	20.229	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	45320	18.847	ug/l	99
30) 2-Butanone	4.562	43	164431	103.024	ug/l	98
31) 2,2-Dichloropropane	4.470	77	53432	18.934	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	58945	18.269	ug/l	96
33) Carbon Tetrachloride	5.665	117	50629	18.340	ug/l	95
34) Benzene	6.031	78	153799	20.253	ug/l	99
35) Methacrylonitrile	4.921	41	32020	19.888	ug/l	92
36) 1,2-Dichloroethane	6.080	62	50384	17.779	ug/l #	95
37) Trichloroethene	7.122	130	42357	20.019	ug/l	96
38) Methylcyclohexane	7.372	83	59659	19.540	ug/l	99
39) 1,2-Dichloropropane	7.427	63	37473	20.875	ug/l	97
40) Dibromomethane	7.580	93	27607	19.540	ug/l	98
41) Bromodichloromethane	7.817	83	50709	19.118	ug/l	99
42) Vinyl Acetate	3.720	43	505753	91.331	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	56068	18.206	ug/l	100
44) Isopropyl Acetate	6.342	43	89670	19.263	ug/l	95
45) 1,4-Dioxane	7.665	88	20748	395.205	ug/l	96
46) Methyl methacrylate	7.689	41	44629	19.268	ug/l	88
47) n-amyl Acetate	10.841	43	80379	19.041	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	50761	19.057	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	57620	19.971	ug/l #	89
50) 1,1,2-Trichloroethane	9.152	97	42175	21.459	ug/l	95
51) Ethyl methacrylate	9.116	69	65394	20.671	ug/l	87
52) 1,3-Dichloropropane	9.305	76	68148	20.983	ug/l	99
53) Dibromochloromethane	9.518	129	44942	20.097	ug/l	98
54) 1,2-Dibromoethane	9.610	107	44254	21.233	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	211537	136.994	ug/l	99
56) Bromoform	10.798	173	36109	20.154	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	321350	102.737	ug/l	95
59) 2-Hexanone	9.433	43	249845	100.266	ug/l	95
61) Tetrachloroethene	9.268	164	42938	20.501	ug/l	95
62) Toluene	8.713	91	171726	20.160	ug/l	99
64) Chlorobenzene	10.079	112	119395	20.635	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.158	131	42431	20.719	ug/l	99
66) Ethyl Benzene	10.195	91	188754	19.955	ug/l	99
67) m/p-Xylenes	10.299	106	154552	41.785	ug/l	98
68) o-Xylene	10.640	106	77334	20.771	ug/l	95
69) Styrene	10.652	104	130303	20.873	ug/l	97
70) Isopropylbenzene	10.963	105	199268	21.181	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	69807	21.599	ug/l	100
72) 1,2,3-Trichloropropane	11.237	75	74086	25.419	ug/l	89
73) Bromobenzene	11.195	156	57114	20.661	ug/l	98
74) n-propylbenzene	11.304	91	221938	20.921	ug/l	99
75) 2-Chlorotoluene	11.365	91	141044	21.172	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	166736	20.764	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18901	20.632	ug/l	83
78) 4-Chlorotoluene	11.451	91	155205	20.455	ug/l	97
79) tert-butylbenzene	11.713	119	177500	20.768	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	167211	20.775	ug/l	98
81) sec-Butylbenzene	11.890	105	210464	21.074	ug/l	100
82) p-Isopropyltoluene	12.006	119	184551	21.110	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	104400	21.058	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	103421	20.645	ug/l	99
85) n-Butylbenzene	12.329	91	141325	20.089	ug/l	99
86) Hexachloroethane	12.536	117	28863	19.610	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	106174	20.982	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.944	75	13878	19.553	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	69698	20.499	ug/l	100
90) Hexachlorobutadiene	13.725	225	35987	21.695	ug/l	98
91) Naphthalene	13.774	128	211108	20.774	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	74089	21.328	ug/l	99

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

