

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060123\
 Data File : VX035952.D
 Acq On : 01 Jun 2023 12:11
 Operator : JC/MD
 Sample : VX0601WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0601WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/02/2023
 Supervised By : Semsettin Yesilyurt 06/02/2023

Quant Time: Jun 02 01:36:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	35147	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	207504	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	185717	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	93053	31.864	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.200%			
60) 4-Bromofluorobenzene	11.079	95	98204	31.513	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.033%			
63) Toluene-d8	8.647	98	250150	30.468	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	49390	27.480	ug/l	98
3) Chloromethane	1.294	50	46855	21.250	ug/l	93
4) Vinyl Chloride	1.374	62	47138	22.749	ug/l	99
5) Bromomethane	1.618	94	28634	20.541	ug/l	97
6) Chloroethane	1.691	64	29306	22.434	ug/l	100
7) Trichlorofluoromethane	1.892	101	73604	23.431	ug/l	94
8) Diethyl Ether	2.136	74	27864	21.335	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	44153	26.125	ug/l	97
10) 1,1-Dichloroethene	2.319	96	39482	22.410	ug/l	90
11) Methyl Iodide	2.453	142	43903	20.627	ug/l	94
12) Methyl Acetate	2.709	43	114862	23.072	ug/l	100
13) Acrolein	2.246	56	50729	128.906	ug/l	99
14) Acrylonitrile	3.075	53	140853	112.863	ug/l	98
15) Acetone	2.404	58	41948	112.374	ug/l	95
16) Carbon Disulfide	2.514	76	87098	22.779	ug/l	100
17) Allyl chloride	2.666	41	80385	22.616	ug/l	96
18) Methylene Chloride	2.794	84	47219	20.580	ug/l	100
19) trans-1,2-Dichloroethene	3.093	96	44836	22.575	ug/l	95
20) Diisopropyl ether	3.757	45	167933	21.886	ug/l	96
21) 1,1-Dichloroethane	3.611	63	91506	22.752	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	54166	22.040	ug/l	99
23) tert-Butyl Alcohol	3.032	59	61504m	135.009	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	163010	22.956	ug/l	95
25) Chloroform	5.093	83	95212	23.069	ug/l	99
26) Cyclohexane	5.471	56	74099	24.360	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	65946	22.822	ug/l	99
30) 2-Butanone	4.568	43	213828	113.044	ug/l	100
31) 2,2-Dichloropropane	4.477	77	71931	23.170	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	82425	24.427	ug/l	99
33) Carbon Tetrachloride	5.684	117	66859	25.092	ug/l	98
34) Benzene	6.038	78	196994	21.610	ug/l	98
35) Methacrylonitrile	4.922	41	43168	21.387	ug/l	96
36) 1,2-Dichloroethane	6.086	62	79331	22.362	ug/l	100
37) Trichloroethene	7.129	130	49814	21.740	ug/l	95
38) Methylcyclohexane	7.379	83	75113	23.703	ug/l	98
39) 1,2-Dichloropropane	7.434	63	52034	21.207	ug/l	97
40) Dibromomethane	7.580	93	35954	21.666	ug/l	98
41) Bromodichloromethane	7.824	83	68267	22.756	ug/l	98
42) Vinyl Acetate	3.721	43	592525	106.643	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	75166	20.837	ug/l	99
44) Isopropyl Acetate	6.336	43	122864	20.894	ug/l	99
45) 1,4-Dioxane	7.732	88	28000	501.338	ug/l #	31
46) Methyl methacrylate	7.696	41	60539	21.308	ug/l	94
47) n-amyl Acetate	10.842	43	100675	20.383	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	70852	21.348	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	78070	21.315	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	51929	21.872	ug/l	99
51) Ethyl methacrylate	9.116	69	77969	21.304	ug/l	97
52) 1,3-Dichloropropane	9.311	76	89365	21.599	ug/l	98
53) Dibromochloromethane	9.519	129	48964	22.488	ug/l	98
54) 1,2-Dibromoethane	9.610	107	53197	21.567	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	213645	110.001	ug/l	98
56) Bromoform	10.799	173	31679	22.444	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	398711	110.529	ug/l	98
59) 2-Hexanone	9.433	43	303959	111.984	ug/l	99
61) Tetrachloroethene	9.275	164	42153	23.568	ug/l	98
62) Toluene	8.720	91	212612	22.230	ug/l	98
64) Chlorobenzene	10.079	112	133981	22.120	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.165	131	48103	22.716	ug/l	100
66) Ethyl Benzene	10.195	91	240940	22.526	ug/l	100
67) m/p-Xylenes	10.299	106	187471	46.305	ug/l	97
68) o-Xylene	10.640	106	89600	22.125	ug/l	96
69) Styrene	10.653	104	151172	22.618	ug/l	99
70) Isopropylbenzene	10.963	105	241675	23.380	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	81294	22.204	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	68347m	21.434	ug/l	
73) Bromobenzene	11.195	156	55155	21.963	ug/l	95
74) n-propylbenzene	11.305	91	280777	22.788	ug/l	100
75) 2-Chlorotoluene	11.366	91	172706	22.820	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	203139	23.139	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	20250	21.051	ug/l	96
78) 4-Chlorotoluene	11.451	91	198581	23.032	ug/l	99
79) tert-butylbenzene	11.713	119	196180	23.148	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	200391	22.713	ug/l	98
81) sec-Butylbenzene	11.890	105	239106	22.346	ug/l	100
82) p-Isopropyltoluene	12.006	119	202234	22.718	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	105058	22.104	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	105790	22.176	ug/l	99
85) n-Butylbenzene	12.329	91	171269	21.626	ug/l	100
86) Hexachloroethane	12.536	117	30426	21.704	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	105831	22.726	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	17650	25.224	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	60034	21.511	ug/l	97
90) Hexachlorobutadiene	13.725	225	24120	23.444	ug/l	99
91) Naphthalene	13.774	128	224777	23.274	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	60772	21.809	ug/l	98

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

