

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100523\
 Data File : VX038109.D
 Acq On : 05 Oct 2023 19:37
 Operator : JC/MD
 Sample : VX1005WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1005WBS02

Quant Time: Oct 06 06:33:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

10/06/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.904	128	24560	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	140120	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	136762	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	62789	35.466	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 118.233%#	
60) 4-Bromofluorobenzene	11.079	95	67256	30.167	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.567%	
63) Toluene-d8	8.653	98	182836	30.969	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.233%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	24212	18.806	ug/l	99
3) Chloromethane	1.307	50	24413	17.706	ug/l	98
4) Vinyl Chloride	1.374	62	29318	18.994	ug/l	96
5) Bromomethane	1.605	94	29942	25.180	ug/l	94
6) Chloroethane	1.685	64	22477	21.691	ug/l	94
7) Trichlorofluoromethane	1.886	101	59568	23.379	ug/l	100
8) Diethyl Ether	2.136	74	22544	23.983	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	22902	17.631	ug/l	97
10) 1,1-Dichloroethene	2.319	96	22260	17.506	ug/l	98
11) Methyl Iodide	2.453	142	32572	18.927	ug/l	95
12) Methyl Acetate	2.703	43	68851	26.639	ug/l	98
13) Acrolein	2.233	56	38266	128.299	ug/l	96
14) Acrylonitrile	3.063	53	93251	130.675	ug/l	97
15) Acetone	2.380	58	25559	123.824	ug/l	97
16) Carbon Disulfide	2.514	76	55546	17.901	ug/l	98
17) Allyl chloride	2.666	41	38047	19.544	ug/l	96
18) Methylene Chloride	2.788	84	30053	19.719	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	28133	19.630	ug/l	96
20) Diisopropyl ether	3.757	45	87865	21.141	ug/l #	77
21) 1,1-Dichloroethane	3.611	63	52234	20.802	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	33044	19.418	ug/l	98
23) tert-Butyl Alcohol	2.959	59	45938	154.285	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	91214	20.724	ug/l	98
25) Chloroform	5.093	83	58830	21.303	ug/l	96
26) Cyclohexane	5.471	56	42169	19.733	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	41017	20.250	ug/l	99
30) 2-Butanone	4.556	43	137594	141.549	ug/l	98
31) 2,2-Dichloropropane	4.477	77	36205	17.743	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	49418	20.361	ug/l	99
33) Carbon Tetrachloride	5.684	117	39690	19.103	ug/l	95
34) Benzene	6.044	78	121043	20.005	ug/l	95
35) Methacrylonitrile	4.922	41	25588	25.038	ug/l	91
36) 1,2-Dichloroethane	6.086	62	48019	22.434	ug/l	97
37) Trichloroethene	7.129	130	32060	19.207	ug/l	95
38) Methylcyclohexane	7.379	83	46633	18.317	ug/l	98
39) 1,2-Dichloropropane	7.434	63	31314	20.229	ug/l	96
40) Dibromomethane	7.580	93	23854	20.883	ug/l	96
41) Bromodichloromethane	7.824	83	42142	20.208	ug/l #	98
42) Vinyl Acetate	3.727	43	334158	109.049	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	49395	25.704	ug/l	99
44) Isopropyl Acetate	6.342	43	75041	23.604	ug/l	100
45) 1,4-Dioxane	7.659	88	18222	497.397	ug/l #	1
46) Methyl methacrylate	7.696	41	36583	24.207	ug/l	96
47) n-amyl Acetate	10.842	43	66677	22.292	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	43789	19.329	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	47450	19.503	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	33829	20.725	ug/l	98
51) Ethyl methacrylate	9.116	69	50163	20.856	ug/l	96
52) 1,3-Dichloropropane	9.311	76	55352	21.139	ug/l	98
53) Dibromochloromethane	9.519	129	32062	19.059	ug/l	99
54) 1,2-Dibromoethane	9.610	107	36308	20.498	ug/l	97
55) 2-Chloroethyl vinyl ether	8.245	63	136117	116.097	ug/l	99
56) Bromoform	10.799	173	23113	18.267	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	271251	135.488	ug/l	98
59) 2-Hexanone	9.427	43	215821	141.950	ug/l	99
61) Tetrachloroethene	9.275	164	26796	18.411	ug/l	97
62) Toluene	8.720	91	140566	19.814	ug/l	99
64) Chlorobenzene	10.080	112	87991	19.883	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	30133	18.758	ug/l	99
66) Ethyl Benzene	10.195	91	156833	20.031	ug/l	98
67) m/p-Xylenes	10.299	106	120015	38.911	ug/l	95
68) o-Xylene	10.640	106	58434	19.564	ug/l	93
69) Styrene	10.659	104	97983	19.554	ug/l	98
70) Isopropylbenzene	10.964	105	155431	19.608	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	58552	22.412	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	52254m	22.780	ug/l	
73) Bromobenzene	11.201	156	37914	18.857	ug/l	97
74) n-propylbenzene	11.305	91	190749	20.142	ug/l	99
75) 2-Chlorotoluene	11.366	91	113371	20.449	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	133960	19.597	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	13633	18.765	ug/l	97
78) 4-Chlorotoluene	11.457	91	133129	20.470	ug/l	99
79) tert-butylbenzene	11.713	119	130763	19.436	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	134936	19.857	ug/l	98
81) sec-Butylbenzene	11.890	105	170456	19.701	ug/l	97
82) p-Isopropyltoluene	12.012	119	142374	19.600	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	75358	19.398	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	74853	19.015	ug/l	99
85) n-Butylbenzene	12.335	91	133596	19.657	ug/l	98
86) Hexachloroethane	12.536	117	21144	17.866	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	72527	18.948	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13638	26.209	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	46718	17.940	ug/l	97
90) Hexachlorobutadiene	13.725	225	18928	16.545	ug/l	96
91) Naphthalene	13.774	128	164796	20.865	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	46587	18.375	ug/l	99

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

