

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031924\
 Data File : VX040710.D
 Acq On : 19 Mar 2024 09:47
 Operator : JC/MD
 Sample : VX0319WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0319WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/20/2024
 Supervised By : Mahesh Dadoda 03/20/2024

Quant Time: Mar 20 04:31:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	18382	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.751	114	96989	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	94279	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	50559	27.539	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.800%
60) 4-Bromofluorobenzene	11.079	95	50649	31.319	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	104.400%
63) Toluene-d8	8.647	98	122706	29.451	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.167%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	23628	18.952	ug/l	99
3) Chloromethane	1.295	50	23836	18.659	ug/l	93
4) Vinyl Chloride	1.374	62	24494	17.742	ug/l	97
5) Bromomethane	1.605	94	20464	24.270	ug/l	99
6) Chloroethane	1.691	64	16063	19.804	ug/l	94
7) Trichlorofluoromethane	1.892	101	47255	22.482	ug/l	99
8) Diethyl Ether	2.130	74	13176	18.462	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	24115	20.945	ug/l	96
10) 1,1-Dichloroethene	2.319	96	21387	19.511	ug/l	94
11) Methyl Iodide	2.453	142	20808	15.695	ug/l	97
12) Methyl Acetate	2.697	43	34225	18.954	ug/l	92
13) Acrolein	2.233	56	35116	103.158	ug/l	98
14) Acrylonitrile	3.056	53	64764	91.086	ug/l	98
15) Acetone	2.374	58	20759	102.141	ug/l	75
16) Carbon Disulfide	2.514	76	53942	17.905	ug/l	97
17) Allyl chloride	2.660	41	39902	19.725	ug/l	86
18) Methylene Chloride	2.788	84	24037	19.206	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	22498	18.799	ug/l	97
20) Diisopropyl ether	3.751	45	79895	19.749	ug/l	96
21) 1,1-Dichloroethane	3.605	63	45838	19.690	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	26811	19.292	ug/l	93
23) tert-Butyl Alcohol	2.947	59	27079	80.607	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	78315	19.359	ug/l	95
25) Chloroform	5.080	83	50418	19.787	ug/l	92
26) Cyclohexane	5.458	56	35978	19.149	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	35778	21.312	ug/l	96
30) 2-Butanone	4.544	43	103558	101.087	ug/l	97
31) 2,2-Dichloropropane	4.465	77	40162	22.165	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	44231	20.909	ug/l	98
33) Carbon Tetrachloride	5.672	117	38103	21.408	ug/l	91
34) Benzene	6.031	78	94680	20.891	ug/l	98
35) Methacrylonitrile	4.904	41	20982	19.951	ug/l	93
36) 1,2-Dichloroethane	6.074	62	45641	21.781	ug/l #	94
37) Trichloroethene	7.123	130	25960	21.316	ug/l	91
38) Methylcyclohexane	7.379	83	38929	21.535	ug/l	96
39) 1,2-Dichloropropane	7.428	63	24909	21.587	ug/l	93
40) Dibromomethane	7.574	93	19755	21.792	ug/l	97
41) Bromodichloromethane	7.818	83	39871	22.109	ug/l #	98
42) Vinyl Acetate	3.715	43	362256	102.704	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	38099	19.747	ug/l	100
44) Isopropyl Acetate	6.330	43	60484	19.639	ug/l	97
45) 1,4-Dioxane	7.653	88	10810	341.469	ug/l	98
46) Methyl methacrylate	7.690	41	31733	20.745	ug/l	99
47) n-amyl Acetate	10.842	43	53369	20.107	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	40336	21.162	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	42101	21.682	ug/l	91
50) 1,1,2-Trichloroethane	9.147	97	25545	21.215	ug/l	95
51) Ethyl methacrylate	9.110	69	39733	20.959	ug/l	96
52) 1,3-Dichloropropane	9.305	76	44617	21.715	ug/l	99
53) Dibromochloromethane	9.519	129	29007	21.132	ug/l	98
54) 1,2-Dibromoethane	9.604	107	27604	20.718	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	99384	102.947	ug/l	100
56) Bromoform	10.799	173	20531	21.087	ug/l #	96
58) 4-Methyl-2-Pentanone	8.568	43	204994	97.646	ug/l	98
59) 2-Hexanone	9.427	43	164571	97.050	ug/l	96
61) Tetrachloroethene	9.269	164	23624	21.112	ug/l	95
62) Toluene	8.714	91	107316	20.667	ug/l	100
64) Chlorobenzene	10.073	112	67286	21.202	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	25625	21.169	ug/l	96
66) Ethyl Benzene	10.189	91	126104	21.063	ug/l	100
67) m/p-Xylenes	10.299	106	94639	42.807	ug/l	98
68) o-Xylene	10.640	106	45528	21.392	ug/l	96
69) Styrene	10.653	104	76185	21.306	ug/l	99
70) Isopropylbenzene	10.957	105	123353	21.450	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	41527	20.598	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37668m	20.765	ug/l	
73) Bromobenzene	11.195	156	29237	21.475	ug/l	96
74) n-propylbenzene	11.299	91	154937	21.814	ug/l	100
75) 2-Chlorotoluene	11.360	91	91265	21.653	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	102740	20.293	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	11098	19.686	ug/l	78
78) 4-Chlorotoluene	11.451	91	103067	20.498	ug/l	100
79) tert-butylbenzene	11.713	119	101804	21.544	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	107608	21.572	ug/l	98
81) sec-Butylbenzene	11.890	105	134055	21.486	ug/l	99
82) p-Isopropyltoluene	12.006	119	112387	22.007	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	56913	21.484	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	57913	21.378	ug/l	99
85) n-Butylbenzene	12.329	91	106145	21.360	ug/l	98
86) Hexachloroethane	12.536	117	18681	20.964	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	55159	21.428	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	10335	19.172	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	36735	21.194	ug/l	97
90) Hexachlorobutadiene	13.725	225	15670	22.359	ug/l	98
91) Naphthalene	13.774	128	110717	19.583	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	35250	20.626	ug/l	98

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

