

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032224\
 Data File : VX040772.D
 Acq On : 22 Mar 2024 11:43
 Operator : JC/MD
 Sample : VX0322WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0322WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2024
 Supervised By : Semsettin Yesilyurt 03/25/2024

Quant Time: Mar 23 05:03:01 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	4.898	128	18263	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	102634	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93579	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	50985	27.952	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.167%		
60) 4-Bromofluorobenzene	11.079	95	51109	31.840	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	106.133%		
63) Toluene-d8	8.647	98	127210	30.760	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.533%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	21692	17.512	ug/l	98
3) Chloromethane	1.301	50	19265	15.179	ug/l	97
4) Vinyl Chloride	1.374	62	20133	14.678	ug/l	96
5) Bromomethane	1.612	94	14261	17.024	ug/l	94
6) Chloroethane	1.691	64	13730	17.038	ug/l	96
7) Trichlorofluoromethane	1.892	101	36758	17.602	ug/l	93
8) Diethyl Ether	2.130	74	12322	17.378	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	21885	19.132	ug/l	98
10) 1,1-Dichloroethene	2.325	96	19506	17.911	ug/l	95
11) Methyl Iodide	2.453	142	27526	20.897	ug/l	93
12) Methyl Acetate	2.697	43	33608	18.734	ug/l	97
13) Acrolein	2.233	56	28802	85.161	ug/l	99
14) Acrylonitrile	3.056	53	62831	88.943	ug/l	99
15) Acetone	2.374	58	17140	84.884	ug/l #	63
16) Carbon Disulfide	2.514	76	47390	15.833	ug/l	99
17) Allyl chloride	2.666	41	35694	17.760	ug/l	82
18) Methylene Chloride	2.788	84	22714	18.267	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	21639	18.199	ug/l	96
20) Diisopropyl ether	3.757	45	74142	18.446	ug/l	95
21) 1,1-Dichloroethane	3.605	63	42365	18.317	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	26024	18.847	ug/l	99
23) tert-Butyl Alcohol	2.941	59	26816m	80.344	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	72833	18.121	ug/l	95
25) Chloroform	5.087	83	46644	18.425	ug/l	90
26) Cyclohexane	5.465	56	33641	18.022	ug/l #	63
29) 1,1-Dichloropropene	5.696	75	33340	18.767	ug/l	96
30) 2-Butanone	4.544	43	92029	84.892	ug/l	98
31) 2,2-Dichloropropane	4.471	77	37683	19.653	ug/l	94
32) 1,1,1-Trichloroethane	5.385	97	40418	18.056	ug/l	96
33) Carbon Tetrachloride	5.672	117	35974	19.101	ug/l	92
34) Benzene	6.031	78	88393	18.431	ug/l	99
35) Methacrylonitrile	4.910	41	19501	17.523	ug/l	95
36) 1,2-Dichloroethane	6.080	62	39341	17.742	ug/l	96
37) Trichloroethene	7.123	130	23586	18.301	ug/l	92
38) Methylcyclohexane	7.373	83	35325	18.466	ug/l	97
39) 1,2-Dichloropropane	7.428	63	23394	19.159	ug/l	95
40) Dibromomethane	7.580	93	18148	18.919	ug/l	97
41) Bromodichloromethane	7.818	83	35566	18.637	ug/l	95
42) Vinyl Acetate	3.715	43	339885	91.062	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	35218	17.250	ug/l	97
44) Isopropyl Acetate	6.336	43	58395	17.918	ug/l	94
45) 1,4-Dioxane	7.653	88	10123	302.180	ug/l #	94
46) Methyl methacrylate	7.690	41	29932	18.492	ug/l	94
47) n-amyl Acetate	10.842	43	53946	19.206	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	36899	18.294	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	38109	18.547	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	23157	18.174	ug/l	94
51) Ethyl methacrylate	9.110	69	36467	18.179	ug/l	92
52) 1,3-Dichloropropane	9.305	76	42085	19.356	ug/l	98
53) Dibromochloromethane	9.519	129	25985	17.889	ug/l	99
54) 1,2-Dibromoethane	9.604	107	24929	17.681	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	104495	102.288	ug/l	99
56) Bromoform	10.799	173	17448	16.935	ug/l	92
58) 4-Methyl-2-Pentanone	8.568	43	195699	93.916	ug/l	97
59) 2-Hexanone	9.427	43	152641	90.688	ug/l	95
61) Tetrachloroethene	9.269	164	20033	18.036	ug/l	96
62) Toluene	8.714	91	99002	19.209	ug/l	98
64) Chlorobenzene	10.073	112	61648	19.570	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	22889	19.050	ug/l	99
66) Ethyl Benzene	10.189	91	114599	19.285	ug/l	98
67) m/p-Xylenes	10.299	106	81266	37.033	ug/l	97
68) o-Xylene	10.640	106	38785	18.360	ug/l	92
69) Styrene	10.653	104	66321	18.686	ug/l	98
70) Isopropylbenzene	10.957	105	112845	19.769	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	38978	19.478	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	33708m	18.721	ug/l	
73) Bromobenzene	11.195	156	26468	19.587	ug/l	96
74) n-propylbenzene	11.299	91	143786	20.396	ug/l	99
75) 2-Chlorotoluene	11.360	91	81653	19.517	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	96831	19.269	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	11178	19.976	ug/l	79
78) 4-Chlorotoluene	11.451	91	99018	19.840	ug/l	98
79) tert-butylbenzene	11.713	119	90128	19.215	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	92001	18.581	ug/l	99
81) sec-Butylbenzene	11.890	105	115626	18.671	ug/l	100
82) p-Isopropyltoluene	12.006	119	99157	19.562	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48395	18.405	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	51533	19.165	ug/l	99
85) n-Butylbenzene	12.329	91	95982	19.460	ug/l	97
86) Hexachloroethane	12.536	117	16375	18.514	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	47739	18.684	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9442	17.646	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	32376	18.819	ug/l	96
90) Hexachlorobutadiene	13.725	225	13933	20.029	ug/l	98
91) Naphthalene	13.774	128	109803	19.567	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	33035	19.474	ug/l	100

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

