

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040587.D
 Acq On : 05 Mar 2024 14:34
 Operator : JC/MD
 Sample : VX0305WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0305WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/06/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 06 00:11:58 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	4.897	128	16138	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	88807	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85269	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	47465	29.449	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.167%	
60) 4-Bromofluorobenzene	11.079	95	40694	27.823	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	92.733%	
63) Toluene-d8	8.647	98	111055	29.471	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.233%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21002	19.188	ug/l	96
3) Chloromethane	1.294	50	20860	18.600	ug/l	97
4) Vinyl Chloride	1.374	62	22653	18.690	ug/l	96
5) Bromomethane	1.605	94	16471	22.251	ug/l	95
6) Chloroethane	1.685	64	13890	19.506	ug/l	98
7) Trichlorofluoromethane	1.886	101	34500	18.696	ug/l	94
8) Diethyl Ether	2.130	74	11615	18.538	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.325	101	19981	19.767	ug/l	94
10) 1,1-Dichloroethene	2.319	96	17798	18.494	ug/l	98
11) Methyl Iodide	2.453	142	20920	17.973	ug/l	98
12) Methyl Acetate	2.697	43	29350	18.515	ug/l	99
13) Acrolein	2.233	56	28494	95.344	ug/l	98
14) Acrylonitrile	3.062	53	59700	95.639	ug/l	98
15) Acetone	2.380	58	15491	86.819	ug/l	77
16) Carbon Disulfide	2.514	76	49309	18.643	ug/l	96
17) Allyl chloride	2.660	41	32746	18.439	ug/l	88
18) Methylene Chloride	2.788	84	21063	19.170	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	19464	18.526	ug/l	96
20) Diisopropyl ether	3.757	45	66426	18.702	ug/l #	98
21) 1,1-Dichloroethane	3.611	63	37601	18.397	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	22975	18.830	ug/l	95
23) tert-Butyl Alcohol	2.953	59	28458m	96.491	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	67945	19.131	ug/l	93
25) Chloroform	5.093	83	42002	18.776	ug/l	96
26) Cyclohexane	5.471	56	30096	18.246	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	31146	20.262	ug/l	97
30) 2-Butanone	4.550	43	88807	94.674	ug/l	98
31) 2,2-Dichloropropane	4.471	77	31909	19.233	ug/l #	79
32) 1,1,1-Trichloroethane	5.379	97	37235	19.224	ug/l	97
33) Carbon Tetrachloride	5.672	117	30661	18.814	ug/l	98
34) Benzene	6.037	78	80165	19.318	ug/l	99
35) Methacrylonitrile	4.916	41	18773	19.495	ug/l	92
36) 1,2-Dichloroethane	6.086	62	37122	19.348	ug/l #	87
37) Trichloroethene	7.123	130	21510	19.289	ug/l	97
38) Methylcyclohexane	7.379	83	33941	20.505	ug/l	98
39) 1,2-Dichloropropane	7.427	63	21040	19.914	ug/l	96
40) Dibromomethane	7.580	93	16499	19.877	ug/l	96
41) Bromodichloromethane	7.818	83	33021	19.997	ug/l	99
42) Vinyl Acetate	3.721	43	315267	97.617	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	32616	18.462	ug/l	98
44) Isopropyl Acetate	6.336	43	55087	19.535	ug/l	95
45) 1,4-Dioxane	7.653	88	11393	393.042	ug/l	97
46) Methyl methacrylate	7.690	41	28345	20.238	ug/l	93
47) n-amyl Acetate	10.842	43	44305	18.230	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	33012	18.915	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	35181	19.787	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	21371	19.383	ug/l	98
51) Ethyl methacrylate	9.116	69	33622	19.370	ug/l	99
52) 1,3-Dichloropropane	9.305	76	37314	19.834	ug/l	99
53) Dibromochloromethane	9.519	129	23359	18.585	ug/l	97
54) 1,2-Dibromoethane	9.610	107	24218	19.851	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	81681	92.405	ug/l	99
56) Bromoform	10.799	173	15698	17.609	ug/l #	95
58) 4-Methyl-2-Pentanone	8.568	43	182538	96.137	ug/l	99
59) 2-Hexanone	9.427	43	143571	93.613	ug/l	97
61) Tetrachloroethene	9.275	164	19710	19.475	ug/l	92
62) Toluene	8.720	91	90866	19.348	ug/l	99
64) Chlorobenzene	10.079	112	56608	19.722	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	20736	18.940	ug/l	97
66) Ethyl Benzene	10.195	91	104205	19.244	ug/l	98
67) m/p-Xylenes	10.299	106	77956	38.987	ug/l	96
68) o-Xylene	10.640	106	34352	17.846	ug/l	96
69) Styrene	10.653	104	58397	18.057	ug/l	98
70) Isopropylbenzene	10.963	105	93400	17.957	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	32932	18.061	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37478	22.844	ug/l	88
73) Bromobenzene	11.195	156	22064	17.919	ug/l	94
74) n-propylbenzene	11.305	91	115520	17.983	ug/l	100
75) 2-Chlorotoluene	11.366	91	70387	18.464	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	80982	17.685	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	9183	18.010	ug/l	85
78) 4-Chlorotoluene	11.451	91	81270	17.871	ug/l	97
79) tert-butylbenzene	11.713	119	75013	17.552	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	79489	17.619	ug/l	99
81) sec-Butylbenzene	11.890	105	103202	18.289	ug/l	100
82) p-Isopropyltoluene	12.006	119	88119	19.078	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	45792	19.113	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	47796	19.508	ug/l	98
85) n-Butylbenzene	12.335	91	85531	19.031	ug/l	96
86) Hexachloroethane	12.536	117	14298	17.741	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	44349	19.049	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9562	19.612	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	30559	19.494	ug/l	98
90) Hexachlorobutadiene	13.725	225	12591	19.864	ug/l	100
91) Naphthalene	13.774	128	95540	18.684	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	29698	19.213	ug/l	99

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

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