

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032756.D
 Acq On : 11 Nov 2022 05:13
 Operator : JC/MD
 Sample : VX1110WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1110WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/11/2022
 Supervised By : Mahesh Dadoda 11/11/2022

Quant Time: Nov 11 06:49:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	11531	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	79990	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	86428	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	33094	29.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.167%		
60) 4-Bromofluorobenzene	11.079	95	49230	29.778	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.267%		
63) Toluene-d8	8.647	98	88528	30.352	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.167%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21213	20.786	ug/l	94
3) Chloromethane	1.294	50	21251	20.984	ug/l	98
4) Vinyl Chloride	1.374	62	23652	20.655	ug/l	99
5) Bromomethane	1.611	94	20067	19.739	ug/l	97
6) Chloroethane	1.691	64	19443	21.497	ug/l	88
7) Trichlorofluoromethane	1.886	101	44873	20.329	ug/l	98
8) Diethyl Ether	2.130	74	14879	20.848	ug/l	74
9) 1,1,2-Trichlorotrifluo...	2.331	101	22905	19.507	ug/l	96
10) 1,1-Dichloroethene	2.319	96	22425	19.991	ug/l	88
11) Methyl Iodide	2.453	142	23570	19.545	ug/l	95
12) Methyl Acetate	2.709	43	33682	20.270	ug/l #	84
13) Acrolein	2.239	56	23509	106.095	ug/l	98
14) Acrylonitrile	3.069	53	60379	101.362	ug/l	98
15) Acetone	2.386	58	16403	105.897	ug/l	85
16) Carbon Disulfide	2.514	76	53362	19.109	ug/l	97
17) Allyl chloride	2.666	41	35015	19.645	ug/l	89
18) Methylene Chloride	2.788	84	25719	19.881	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	24834	20.097	ug/l #	82
20) Diisopropyl ether	3.764	45	79229	19.824	ug/l #	85
21) 1,1-Dichloroethane	3.611	63	44900	20.012	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	28272	19.596	ug/l	89
23) tert-Butyl Alcohol	2.989	59	22925	118.529	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	79108	19.694	ug/l #	91
25) Chloroform	5.099	83	49654	19.843	ug/l	99
26) Cyclohexane	5.477	56	39225	20.020	ug/l #	83
29) 1,1-Dichloropropene	5.696	75	34971	19.713	ug/l	96
30) 2-Butanone	4.562	43	86719	104.836	ug/l #	90
31) 2,2-Dichloropropane	4.477	77	26477	17.451	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	44427	19.909	ug/l	94
33) Carbon Tetrachloride	5.684	117	38430	19.614	ug/l	97
34) Benzene	6.044	78	100485	20.103	ug/l #	96
35) Methacrylonitrile	4.928	41	18755	20.019	ug/l	90
36) 1,2-Dichloroethane	6.092	62	41489	20.162	ug/l #	93
37) Trichloroethene	7.129	130	27873	19.932	ug/l	89
38) Methylcyclohexane	7.385	83	38988	19.615	ug/l	88
39) 1,2-Dichloropropane	7.427	63	25663	20.283	ug/l	95
40) Dibromomethane	7.580	93	19253	19.930	ug/l	100
41) Bromodichloromethane	7.824	83	36881	20.030	ug/l	95
42) Vinyl Acetate	3.721	43	314840	99.054	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	34324	20.628	ug/l #	88
44) Isopropyl Acetate	6.342	43	55052	19.742	ug/l	93
45) 1,4-Dioxane	7.696	88	11968	446.822	ug/l #	87
46) Methyl methacrylate	7.696	41	29150	20.765	ug/l	81
47) n-amyl Acetate	10.842	43	49260	19.871	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	35102	18.583	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	38235	19.169	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	26540	19.982	ug/l	95
51) Ethyl methacrylate	9.116	69	38528	19.423	ug/l	81
52) 1,3-Dichloropropane	9.311	76	44383	20.439	ug/l	98
53) Dibromochloromethane	9.525	129	27857	19.285	ug/l	98
54) 1,2-Dibromoethane	9.610	107	28702	20.062	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	94440	98.518	ug/l	93
56) Bromoform	10.805	173	19623	18.975	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	177791	105.084	ug/l #	91
59) 2-Hexanone	9.433	43	134490	107.964	ug/l	90
61) Tetrachloroethene	9.275	164	24452	20.244	ug/l	98
62) Toluene	8.720	91	113751	20.238	ug/l	98
64) Chlorobenzene	10.079	112	70806	20.376	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	26446	19.978	ug/l	99
66) Ethyl Benzene	10.195	91	130854	20.752	ug/l	95
67) m/p-Xylenes	10.305	106	98478	40.138	ug/l	89
68) o-Xylene	10.640	106	48917	20.320	ug/l	91
69) Styrene	10.659	104	79816	19.942	ug/l	95
70) Isopropylbenzene	10.963	105	128228	19.946	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	40908	20.983	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	36322m	21.452	ug/l	
73) Bromobenzene	11.201	156	31355	20.077	ug/l	88
74) n-propylbenzene	11.305	91	146585	20.068	ug/l	94
75) 2-Chlorotoluene	11.366	91	91077	20.594	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	110263	20.289	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	9215	17.835	ug/l	92
78) 4-Chlorotoluene	11.457	91	104075	20.430	ug/l	92
79) tert-butylbenzene	11.713	119	107698	20.392	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	110698	20.833	ug/l	93
81) sec-Butylbenzene	11.890	105	129903	20.430	ug/l	95
82) p-Isopropyltoluene	12.012	119	109169	20.373	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	58238	20.326	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	58744	20.416	ug/l	96
85) n-Butylbenzene	12.335	91	88473	19.480	ug/l	95
86) Hexachloroethane	12.536	117	17196	19.548	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	58652	20.592	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8317	20.108	ug/l	82
89) 1,2,4-Trichlorobenzene	13.591	180	34490	19.716	ug/l	99
90) Hexachlorobutadiene	13.725	225	14463	20.542	ug/l	97
91) Naphthalene	13.774	128	120999	20.494	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	35629	20.251	ug/l	97

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

