

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071422\
 Data File : VX030057.D
 Acq On : 14 Jul 2022 13:35
 Operator : JC/MD
 Sample : VX0714WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0714WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2022
 Supervised By : Mahesh Dadoda 07/15/2022

Quant Time: Jul 14 13:59:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	28109	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	155688	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	139191	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	68586	29.923	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.733%		
60) 4-Bromofluorobenzene	11.079	95	79928	30.470	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.567%		
63) Toluene-d8	8.653	98	225904	29.931	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.767%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	37691	19.609	ug/l	96
3) Chloromethane	1.288	50	38861	19.388	ug/l	99
4) Vinyl Chloride	1.374	62	41367	18.213	ug/l	99
5) Bromomethane	1.612	94	19753	21.109	ug/l	94
6) Chloroethane	1.685	64	23152	19.034	ug/l	100
7) Trichlorofluoromethane	1.886	101	54295	18.859	ug/l	89
8) Diethyl Ether	2.136	74	22340	18.243	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.325	101	38453	19.836	ug/l	96
10) 1,1-Dichloroethene	2.319	96	38133	19.264	ug/l	93
11) Methyl Iodide	2.453	142	35958	23.729	ug/l	93
12) Methyl Acetate	2.709	43	69284	21.492	ug/l	93
13) Acrolein	2.239	56	36077	95.260	ug/l	98
14) Acrylonitrile	3.069	53	144546	104.179	ug/l	99
15) Acetone	2.386	58	39292	104.255	ug/l	93
16) Carbon Disulfide	2.508	76	94023	18.196	ug/l	98
17) Allyl chloride	2.660	41	67153	19.251	ug/l	90
18) Methylene Chloride	2.788	84	45237	19.616	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	40734	18.963	ug/l	95
20) Diisopropyl ether	3.764	45	136339	19.510	ug/l	90
21) 1,1-Dichloroethane	3.611	63	73629	19.571	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	47938	18.794	ug/l	99
23) tert-Butyl Alcohol	2.983	59	62178	97.823	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	125527	19.657	ug/l	100
25) Chloroform	5.099	83	73768	19.675	ug/l	95
26) Cyclohexane	5.471	56	65455	18.778	ug/l #	93
29) 1,1-Dichloropropene	5.696	75	53852	20.220	ug/l	97
30) 2-Butanone	4.568	43	196545	109.334	ug/l	100
31) 2,2-Dichloropropane	4.477	77	48940	19.226	ug/l	91
32) 1,1,1-Trichloroethane	5.391	97	57999	20.253	ug/l	97
33) Carbon Tetrachloride	5.684	117	48216	20.046	ug/l	94
34) Benzene	6.044	78	173735	20.299	ug/l	99
35) Methacrylonitrile	4.922	41	40110	22.044	ug/l	97
36) 1,2-Dichloroethane	6.092	62	54310	20.845	ug/l	97
37) Trichloroethene	7.129	130	46964	20.518	ug/l	98
38) Methylcyclohexane	7.385	83	72140	20.875	ug/l	94
39) 1,2-Dichloropropane	7.434	63	44078	20.231	ug/l	98
40) Dibromomethane	7.586	93	30620	20.734	ug/l	94
41) Bromodichloromethane	7.824	83	56113	21.271	ug/l	98
42) Vinyl Acetate	3.727	43	598081	104.035	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	72269	21.342	ug/l	99
44) Isopropyl Acetate	6.342	43	106219	20.648	ug/l	99
45) 1,4-Dioxane	7.678	88	26691	441.991	ug/l #	89
46) Methyl methacrylate	7.696	41	51571	21.155	ug/l	95
47) n-amyl Acetate	10.842	43	84743	19.176	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	56373	19.337	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	65301	19.947	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	46284	21.155	ug/l	96
51) Ethyl methacrylate	9.116	69	70791	20.793	ug/l	97
52) 1,3-Dichloropropane	9.311	76	74335	21.122	ug/l	99
53) Dibromochloromethane	9.525	129	42300	20.888	ug/l	98
54) 1,2-Dibromoethane	9.610	107	48206	21.218	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	197331	112.437	ug/l	96
56) Bromoform	10.805	173	29130	20.549	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	369735	107.539	ug/l	98
59) 2-Hexanone	9.433	43	290602	109.280	ug/l	98
61) Tetrachloroethene	9.275	164	47243	22.605	ug/l	96
62) Toluene	8.720	91	186359	20.127	ug/l	96
64) Chlorobenzene	10.080	112	112793	20.398	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	39519	20.495	ug/l	95
66) Ethyl Benzene	10.195	91	199908	20.317	ug/l	100
67) m/p-Xylenes	10.305	106	155478	40.720	ug/l	99
68) o-Xylene	10.647	106	75996	19.987	ug/l	100
69) Styrene	10.659	104	127858	20.321	ug/l	97
70) Isopropylbenzene	10.964	105	194806	20.349	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	71378	20.503	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	65153m	20.821	ug/l	
73) Bromobenzene	11.201	156	45857	19.976	ug/l	92
74) n-propylbenzene	11.305	91	232109	20.212	ug/l	99
75) 2-Chlorotoluene	11.366	91	135428	20.026	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	162962	20.275	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	20209	18.776	ug/l	90
78) 4-Chlorotoluene	11.457	91	152337	20.071	ug/l	97
79) tert-butylbenzene	11.719	119	153558	19.639	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	163947	19.841	ug/l	99
81) sec-Butylbenzene	11.890	105	213054	20.130	ug/l	98
82) p-Isopropyltoluene	12.012	119	166546	19.547	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	88446	19.914	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	87497	19.425	ug/l	99
85) n-Butylbenzene	12.335	91	152544	19.078	ug/l	96
86) Hexachloroethane	12.543	117	28036	19.805	ug/l	84
87) 1,2-Dichlorobenzene	12.335	146	86790	19.790	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16112	20.295	ug/l	89
89) 1,2,4-Trichlorobenzene	13.591	180	52763	19.431	ug/l	97
90) Hexachlorobutadiene	13.725	225	21623	20.997	ug/l	97
91) Naphthalene	13.780	128	214423	19.811	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54507	19.707	ug/l	100

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

