

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
 Data File : VX041780.D
 Acq On : 07 Jun 2024 10:55
 Operator : JC/MD
 Sample : VX0607WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0607WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/10/2024
 Supervised By : Mahesh Dadoda 06/10/2024

Quant Time: Jun 08 04:03:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	22696	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	125446	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	118593	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	55822	31.233	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.100%			
60) 4-Bromofluorobenzene	11.079	95	57906	31.278	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.267%			
63) Toluene-d8	8.647	98	148347	29.181	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.267%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21163	17.827	ug/l	96
3) Chloromethane	1.300	50	23240	17.878	ug/l	97
4) Vinyl Chloride	1.374	62	23699	17.316	ug/l	95
5) Bromomethane	1.599	94	16367	18.802	ug/l	94
6) Chloroethane	1.666	64	14682	21.218	ug/l	94
7) Trichlorofluoromethane	1.867	101	42841	20.622	ug/l	96
8) Diethyl Ether	2.136	74	19127	24.655	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	24002	19.924	ug/l	97
10) 1,1-Dichloroethene	2.306	96	22009	18.954	ug/l	96
11) Methyl Iodide	2.440	142	29176	21.096	ug/l	95
12) Methyl Acetate	2.709	43	46650	26.675	ug/l	95
13) Acrolein	2.239	56	21812	102.451	ug/l	98
14) Acrylonitrile	3.068	53	80123	104.206	ug/l	99
15) Acetone	2.392	58	23797	115.513	ug/l	98
16) Carbon Disulfide	2.501	76	38505	14.687	ug/l	100
17) Allyl chloride	2.654	41	39307	19.075	ug/l	94
18) Methylene Chloride	2.782	84	28340	20.520	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	23218	17.437	ug/l	98
20) Diisopropyl ether	3.763	45	86212	19.912	ug/l	97
21) 1,1-Dichloroethane	3.605	63	45707	18.810	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	30243	18.691	ug/l	97
23) tert-Butyl Alcohol	2.995	59	29690	90.992	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	85489	19.720	ug/l	99
25) Chloroform	5.092	83	49064	18.953	ug/l	97
26) Cyclohexane	5.458	56	35344	17.442	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	30521	18.393	ug/l	99
30) 2-Butanone	4.568	43	121201	110.038	ug/l	99
31) 2,2-Dichloropropane	4.471	77	35961	18.465	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	40302	18.100	ug/l	97
33) Carbon Tetrachloride	5.672	117	34312	18.010	ug/l	97
34) Benzene	6.031	78	100660	19.207	ug/l	99
35) Methacrylonitrile	4.922	41	24134	21.721	ug/l	99
36) 1,2-Dichloroethane	6.086	62	40262	20.587	ug/l	99
37) Trichloroethene	7.123	130	27096	18.557	ug/l	92
38) Methylcyclohexane	7.373	83	37661	17.874	ug/l	98
39) 1,2-Dichloropropane	7.427	63	25434	20.530	ug/l	98
40) Dibromomethane	7.580	93	19341	19.837	ug/l	97
41) Bromodichloromethane	7.818	83	34794	19.008	ug/l	100
42) Vinyl Acetate	3.721	43	375609	98.288	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	40768	19.183	ug/l	99
44) Isopropyl Acetate	6.342	43	66212	20.610	ug/l	100
45) 1,4-Dioxane	7.665	88	11624	320.837	ug/l #	88
46) Methyl methacrylate	7.696	41	33904	21.211	ug/l	97
47) n-amyl Acetate	10.841	43	56376	19.352	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	33569	18.262	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	37334	18.751	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	28835	21.259	ug/l	92
51) Ethyl methacrylate	9.116	69	44032	20.169	ug/l	98
52) 1,3-Dichloropropane	9.305	76	46041	20.542	ug/l	97
53) Dibromochloromethane	9.518	129	29675	19.229	ug/l	99
54) 1,2-Dibromoethane	9.610	107	29281	20.358	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	126582	118.787	ug/l	99
56) Bromoform	10.799	173	22554	18.242	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	237186	109.460	ug/l	99
59) 2-Hexanone	9.433	43	184800	107.054	ug/l	100
61) Tetrachloroethene	9.269	164	25991	17.913	ug/l	95
62) Toluene	8.714	91	111287	18.859	ug/l	99
64) Chlorobenzene	10.079	112	76521	19.091	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	26846	18.923	ug/l	98
66) Ethyl Benzene	10.195	91	123609	18.864	ug/l	99
67) m/p-Xylenes	10.299	106	98677	38.511	ug/l	99
68) o-Xylene	10.640	106	49817	19.314	ug/l	98
69) Styrene	10.652	104	82129	18.991	ug/l	99
70) Isopropylbenzene	10.963	105	126606	19.426	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	47783	21.342	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37583m	18.613	ug/l	
73) Bromobenzene	11.195	156	35932	18.763	ug/l	98
74) n-propylbenzene	11.305	91	140167	19.073	ug/l	99
75) 2-Chlorotoluene	11.366	91	89502	19.394	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	107726	19.365	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	11487	18.100	ug/l	99
78) 4-Chlorotoluene	11.457	91	98980	18.831	ug/l	99
79) tert-butylbenzene	11.713	119	112000	18.916	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	106482	19.097	ug/l	100
81) sec-Butylbenzene	11.890	105	133471	19.292	ug/l	100
82) p-Isopropyltoluene	12.006	119	113089	18.673	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	64672	18.830	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	64275	18.521	ug/l	99
85) n-Butylbenzene	12.335	91	87546	17.964	ug/l	99
86) Hexachloroethane	12.536	117	17882	17.537	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	66847	19.069	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9659	19.644	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	42897	18.212	ug/l	99
90) Hexachlorobutadiene	13.725	225	21687	18.873	ug/l	99
91) Naphthalene	13.774	128	136814	19.434	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	46045	19.134	ug/l	99

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

