

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040623\
 Data File : VX034949.D
 Acq On : 06 Apr 2023 10:08
 Operator : JC/MD
 Sample : VX0406WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0406WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/07/2023
 Supervised By : Mahesh Dadoda 04/07/2023

Quant Time: Apr 07 03:16:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	29030	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	200121	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	216719	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	90077	32.294	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.633%			
60) 4-Bromofluorobenzene	11.079	95	132371	30.568	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.900%			
63) Toluene-d8	8.647	98	217747	29.566	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.567%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	64500	23.426	ug/l	99
3) Chloromethane	1.294	50	72295	20.250	ug/l	98
4) Vinyl Chloride	1.373	62	70100	19.901	ug/l	97
5) Bromomethane	1.617	94	43933	18.962	ug/l	94
6) Chloroethane	1.690	64	40916	17.849	ug/l	94
7) Trichlorofluoromethane	1.886	101	101436	18.079	ug/l	96
8) Diethyl Ether	2.129	74	39898	19.752	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	58421	20.523	ug/l	98
10) 1,1-Dichloroethene	2.318	96	54011	18.744	ug/l	93
11) Methyl Iodide	2.453	142	67067	18.277	ug/l	98
12) Methyl Acetate	2.703	43	133114	20.860	ug/l	99
13) Acrolein	2.239	56	69661	94.138	ug/l	100
14) Acrylonitrile	3.062	53	180647	102.807	ug/l	99
15) Acetone	2.386	58	57195	119.895	ug/l	94
16) Carbon Disulfide	2.514	76	131812	17.884	ug/l	99
17) Allyl chloride	2.666	41	113357	20.330	ug/l	97
18) Methylene Chloride	2.788	84	66563	19.610	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	61216	19.414	ug/l	93
20) Diisopropyl ether	3.757	45	231558	20.270	ug/l	95
21) 1,1-Dichloroethane	3.611	63	121375	19.871	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	72452	19.729	ug/l	99
23) tert-Butyl Alcohol	2.989	59	79328m	100.339	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	220892	20.629	ug/l	98
25) Chloroform	5.092	83	123957	19.952	ug/l	98
26) Cyclohexane	5.470	56	102776	19.201	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	89281	19.397	ug/l	98
30) 2-Butanone	4.556	43	276340	107.656	ug/l	99
31) 2,2-Dichloropropane	4.471	77	95680	20.498	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	105668	19.569	ug/l	98
33) Carbon Tetrachloride	5.678	117	87961	19.738	ug/l	96
34) Benzene	6.037	78	260849	19.502	ug/l	100
35) Methacrylonitrile	4.916	41	57324	20.404	ug/l	98
36) 1,2-Dichloroethane	6.086	62	110162	21.006	ug/l	99
37) Trichloroethene	7.122	130	65604	19.272	ug/l	90
38) Methylcyclohexane	7.378	83	96434	19.177	ug/l	98
39) 1,2-Dichloropropane	7.427	63	68672	19.751	ug/l	100
40) Dibromomethane	7.580	93	47676	19.962	ug/l	99
41) Bromodichloromethane	7.817	83	90567	20.132	ug/l #	99
42) Vinyl Acetate	3.721	43	848744	101.353	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	101830	20.455	ug/l	99
44) Isopropyl Acetate	6.336	43	165430	19.630	ug/l	99
45) 1,4-Dioxane	7.696	88	35184	421.399	ug/l	95
46) Methyl methacrylate	7.689	41	82425	20.073	ug/l	97
47) n-amyl Acetate	10.841	43	136025	18.566	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	93818	19.140	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	105615	19.612	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	66672	20.037	ug/l	98
51) Ethyl methacrylate	9.116	69	105408	19.519	ug/l	99
52) 1,3-Dichloropropane	9.305	76	119351	20.305	ug/l	100
53) Dibromochloromethane	9.518	129	65404	19.870	ug/l	100
54) 1,2-Dibromoethane	9.610	107	70550	19.822	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	283107	99.617	ug/l	98
56) Bromoform	10.799	173	42449	18.703	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	513102	103.263	ug/l	99
59) 2-Hexanone	9.427	43	394085	105.338	ug/l	99
61) Tetrachloroethene	9.274	164	58399	19.999	ug/l	97
62) Toluene	8.714	91	278748	19.671	ug/l	99
64) Chlorobenzene	10.079	112	172821	19.804	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	62486	20.030	ug/l	97
66) Ethyl Benzene	10.195	91	313950	19.891	ug/l	99
67) m/p-Xylenes	10.299	106	241330	40.186	ug/l	99
68) o-Xylene	10.640	106	117027	19.705	ug/l	96
69) Styrene	10.652	104	193565	19.771	ug/l	99
70) Isopropylbenzene	10.963	105	304792	19.830	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	102796	20.347	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	86228m	18.749	ug/l	
73) Bromobenzene	11.195	156	72710	19.698	ug/l	96
74) n-propylbenzene	11.305	91	347321	19.411	ug/l	100
75) 2-Chlorotoluene	11.366	91	222455	19.943	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	255041	19.712	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	24140	17.092	ug/l	94
78) 4-Chlorotoluene	11.451	91	256823	20.083	ug/l	99
79) tert-butylbenzene	11.713	119	239227	19.369	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	256416	19.943	ug/l	99
81) sec-Butylbenzene	11.890	105	289093	19.317	ug/l	99
82) p-Isopropyltoluene	12.006	119	243213	19.258	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	135205	19.396	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	138216	19.745	ug/l	100
85) n-Butylbenzene	12.335	91	209535	19.251	ug/l	100
86) Hexachloroethane	12.536	117	36453	17.623	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	138240	20.267	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	21928	19.861	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	79131	19.339	ug/l	99
90) Hexachlorobutadiene	13.725	225	33958	21.519	ug/l	96
91) Naphthalene	13.774	128	285242	19.730	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	81042	19.812	ug/l	99

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

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