

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042870.D
 Acq On : 06 Aug 2024 14:46
 Operator : JC/MD
 Sample : P3390-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT3-2024

Quant Time: Aug 07 06:12:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/07/2024
 Supervised By : Mahesh Dadoda 08/08/2024

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

Internal Standards						
1) Bromochloromethane	4.910	128	39181	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	230332	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	212009	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	103505	28.608	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.367%	
60) 4-Bromofluorobenzene	11.079	95	96781	27.981	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	93.267%	
63) Toluene-d8	8.647	98	293297	30.627	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.100%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	11915	5.171	ug/l	98
3) Chloromethane	1.301	50	13581	6.422	ug/l	97
4) Vinyl Chloride	1.374	62	12714	5.631	ug/l	90
5) Bromomethane	1.599	94	8548	6.212	ug/l	92
6) Chloroethane	1.666	64	7318	5.450	ug/l	99
7) Trichlorofluoromethane	1.874	101	19657	5.460	ug/l	97
8) Diethyl Ether	2.136	74	7696	5.439	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	12703	5.175	ug/l	98
10) 1,1-Dichloroethene	2.306	96	12625	5.384	ug/l	96
11) Methyl Iodide	2.447	142	10711	4.964	ug/l	95
12) Methyl Acetate	2.709	43	19579	3.820	ug/l	96
13) Acrolein	2.239	56	7780	52.496	ug/l	86
14) Acrylonitrile	3.069	53	38426	24.663	ug/l	99
15) Acetone	2.392	58	11347	22.464	ug/l	82
16) Carbon Disulfide	2.502	76	27961	5.731	ug/l #	94
17) Allyl chloride	2.660	41	19335	5.096	ug/l	95
18) Methylene Chloride	2.788	84	16465	6.055	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	12386	5.188	ug/l	91
20) Diisopropyl ether	3.764	45	43021	5.191	ug/l	88
21) 1,1-Dichloroethane	3.611	63	24861	5.275	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	16111	5.377	ug/l	92
23) tert-Butyl Alcohol	2.989	59	17251	24.016	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	43258	5.097	ug/l #	77
25) Chloroform	5.099	83	26606	5.217	ug/l	96
26) Cyclohexane	5.464	56	19440	5.229	ug/l #	94
29) 1,1-Dichloropropene	5.696	75	15302	5.155	ug/l	97
30) 2-Butanone	4.574	43	56986	26.070	ug/l	99
31) 2,2-Dichloropropane	4.471	77	15855	4.571	ug/l #	82
32) 1,1,1-Trichloroethane	5.391	97	22242m	5.412	ug/l	
33) Carbon Tetrachloride	5.672	117	18224	5.184	ug/l #	84
34) Benzene	6.038	78	53549	5.635	ug/l	96
35) Methacrylonitrile	4.928	41	10613	5.139	ug/l	91
36) 1,2-Dichloroethane	6.092	62	19277	5.496	ug/l	100
37) Trichloroethene	7.129	130	13507	5.614	ug/l	98
38) Methylcyclohexane	7.379	83	19890	5.407	ug/l	98
39) 1,2-Dichloropropane	7.428	63	12979	5.358	ug/l	98
40) Dibromomethane	7.586	93	9798	5.357	ug/l	98
41) Bromodichloromethane	7.824	83	17846	4.920	ug/l	90
42) Vinyl Acetate	3.727	43	178742	27.959	ug/l	100

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43) Ethyl Acetate	4.733	43	18898	5.154	ug/l	100
44) Isopropyl Acetate	6.355	43	30807	5.220	ug/l #	78
45) 1,4-Dioxane	7.677	88	5897m	95.447	ug/l	
46) Methyl methacrylate	7.702	41	14471	4.934	ug/l	99
47) n-amyl Acetate	10.848	43	24941	4.940	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	16018	4.607	ug/l	95
49) cis-1,3-Dichloropropene	8.372	75	17874	4.747	ug/l #	92
50) 1,1,2-Trichloroethane	9.159	97	14160	5.676	ug/l	90
51) Ethyl methacrylate	9.122	69	19292	4.726	ug/l	95
52) 1,3-Dichloropropane	9.311	76	22289	5.444	ug/l	99
53) Dibromochloromethane	9.525	129	13639	4.698	ug/l	94
54) 1,2-Dibromoethane	9.610	107	13584	5.236	ug/l	95
55) 2-Chloroethyl vinyl ether	8.244	63	48973	25.979	ug/l	98
56) Bromoform	10.799	173	8876	4.265	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	107706	26.977	ug/l	100
59) 2-Hexanone	9.433	43	81789	25.918	ug/l	98
61) Tetrachloroethene	9.275	164	12989	6.171	ug/l	97
62) Toluene	8.720	91	58051	5.590	ug/l	100
64) Chlorobenzene	10.079	112	36413	5.479	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	11736	4.864	ug/l	93
66) Ethyl Benzene	10.195	91	59651	5.168	ug/l	97
67) m/p-Xylenes	10.305	106	43080	9.873	ug/l	98
68) o-Xylene	10.640	106	23046	5.358	ug/l	98
69) Styrene	10.659	104	37630	5.080	ug/l	98
70) Isopropylbenzene	10.963	105	57328	5.064	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	21773	5.332	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	17395m	5.215	ug/l	
73) Bromobenzene	11.201	156	14738	5.123	ug/l	96
74) n-propylbenzene	11.305	91	63245	4.775	ug/l	98
75) 2-Chlorotoluene	11.366	91	41079	5.082	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	47503	4.950	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	4973	4.194	ug/l	88
78) 4-Chlorotoluene	11.457	91	44284	4.777	ug/l	99
79) tert-butylbenzene	11.713	119	48443	4.920	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	45541	4.811	ug/l	96
81) sec-Butylbenzene	11.890	105	57878	4.796	ug/l	99
82) p-Isopropyltoluene	12.012	119	44306	4.384	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	25909	4.893	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	25675	4.823	ug/l	96
85) n-Butylbenzene	12.335	91	35300	3.876	ug/l	99
86) Hexachloroethane	12.536	117	8319	4.561	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	26912	5.102	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	4532	4.913	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	13461	3.923	ug/l	91
90) Hexachlorobutadiene	13.725	225	6476	4.367	ug/l	93
91) Naphthalene	13.774	128	50796	4.397	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	15818	4.565	ug/l	98

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

