

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042869.D
 Acq On : 06 Aug 2024 14:22
 Operator : JC/MD
 Sample : P3390-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2024

Quant Time: Aug 07 06:11:23 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	4.897	128	39555	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	246806	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	221915	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	108633	29.742	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.133%		
60) 4-Bromofluorobenzene	11.079	95	99417	27.460	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.533%		
63) Toluene-d8	8.647	98	304050	30.332	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.100%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	5884	2.530	ug/l	84
3) Chloromethane	1.300	50	7041	3.298	ug/l	96
4) Vinyl Chloride	1.374	62	6900	3.027	ug/l	95
5) Bromomethane	1.599	94	5132	3.694	ug/l	97
6) Chloroethane	1.666	64	3577	2.639	ug/l	93
7) Trichlorofluoromethane	1.874	101	10395	2.860	ug/l	98
8) Diethyl Ether	2.136	74	3700	2.590	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.319	101	6634	2.677	ug/l	95
10) 1,1-Dichloroethene	2.312	96	6092	2.574	ug/l	93
11) Methyl Iodide	2.441	142	5481	2.516	ug/l	87
12) Methyl Acetate	2.709	43	9415	1.820	ug/l	94
13) Acrolein	2.239	56	3785	25.298	ug/l	89
14) Acrylonitrile	3.075	53	18968	12.059	ug/l	98
15) Acetone	2.392	58	5666	11.111	ug/l	84
16) Carbon Disulfide	2.501	76	14956	3.036	ug/l	98
17) Allyl chloride	2.660	41	10118	2.642	ug/l	88
18) Methylene Chloride	2.788	84	9730	3.544	ug/l #	88
19) trans-1,2-Dichloroethene	3.093	96	6528	2.708	ug/l	88
20) Diisopropyl ether	3.763	45	21016	2.512	ug/l #	79
21) 1,1-Dichloroethane	3.611	63	12256	2.576	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	8947	2.958	ug/l	86
23) tert-Butyl Alcohol	2.989	59	9575m	13.204	ug/l	
24) Methyl tert-Butyl Ether	3.123	73	21313	2.488	ug/l	99
25) Chloroform	5.099	83	13685	2.658	ug/l	92
26) Cyclohexane	5.464	56	10769m	2.869	ug/l	
29) 1,1-Dichloropropene	5.690	75	8275	2.602	ug/l	61
30) 2-Butanone	4.580	43	26970	11.515	ug/l #	89
31) 2,2-Dichloropropane	4.471	77	8586m	2.310	ug/l	
32) 1,1,1-Trichloroethane	5.379	97	11233	2.551	ug/l	100
33) Carbon Tetrachloride	5.678	117	9407	2.497	ug/l	96
34) Benzene	6.037	78	26887	2.640	ug/l	97
35) Methacrylonitrile	4.934	41	4980m	2.250	ug/l	
36) 1,2-Dichloroethane	6.086	62	10586m	2.817	ug/l	
37) Trichloroethene	7.135	130	7413	2.876	ug/l	83
38) Methylcyclohexane	7.373	83	10462	2.654	ug/l	99
39) 1,2-Dichloropropane	7.427	63	6853	2.640	ug/l #	80
40) Dibromomethane	7.586	93	5005	2.554	ug/l	99
41) Bromodichloromethane	7.824	83	9191	2.365	ug/l	99
42) Vinyl Acetate	3.727	43	89422	13.054	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	10165m	2.587	ug/l	
44) Isopropyl Acetate	6.354	43	14629	2.313	ug/l	98
45) 1,4-Dioxane	7.677	88	3928m	59.334	ug/l	
46) Methyl methacrylate	7.702	41	6290	2.002	ug/l	92
47) n-amyl Acetate	10.841	43	11255	2.081	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	7429	1.994	ug/l #	87
49) cis-1,3-Dichloropropene	8.372	75	8900	2.206	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	6708	2.509	ug/l	96
51) Ethyl methacrylate	9.122	69	9156	2.093	ug/l	92
52) 1,3-Dichloropropane	9.311	76	11267	2.568	ug/l	100
53) Dibromochloromethane	9.525	129	6821	2.193	ug/l	100
54) 1,2-Dibromoethane	9.610	107	6899	2.482	ug/l	93
55) 2-Chloroethyl vinyl ether	8.244	63	22478	11.128	ug/l	97
56) Bromoform	10.805	173	4803	2.154	ug/l	94
58) 4-Methyl-2-Pentanone	8.580	43	53567	12.818	ug/l	99
59) 2-Hexanone	9.433	43	36756	11.128	ug/l	97
61) Tetrachloroethene	9.275	164	6279	2.850	ug/l	96
62) Toluene	8.720	91	29720	2.734	ug/l	96
64) Chlorobenzene	10.079	112	18903	2.717	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.165	131	6266	2.481	ug/l	96
66) Ethyl Benzene	10.195	91	29495	2.442	ug/l	93
67) m/p-Xylenes	10.305	106	22328	4.888	ug/l	99
68) o-Xylene	10.640	106	11094	2.464	ug/l	93
69) Styrene	10.659	104	16568	2.137	ug/l	97
70) Isopropylbenzene	10.963	105	27834	2.349	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	10775	2.521	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	8735m	2.502	ug/l	
73) Bromobenzene	11.201	156	7658	2.543	ug/l	98
74) n-propylbenzene	11.305	91	31813	2.295	ug/l	99
75) 2-Chlorotoluene	11.366	91	21834	2.581	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	22468	2.237	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	2366	1.906	ug/l	97
78) 4-Chlorotoluene	11.457	91	23910	2.464	ug/l	95
79) tert-butylbenzene	11.713	119	24228	2.351	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	21757	2.196	ug/l	96
81) sec-Butylbenzene	11.890	105	27242	2.157	ug/l	100
82) p-Isopropyltoluene	12.012	119	22404	2.118	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	13726	2.477	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	13550	2.432	ug/l	98
85) n-Butylbenzene	12.335	91	17742	1.861	ug/l	99
86) Hexachloroethane	12.536	117	4208	2.204	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	13976	2.531	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2232	2.312	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	7127	1.984	ug/l	91
90) Hexachlorobutadiene	13.725	225	3589	2.312	ug/l	97
91) Naphthalene	13.774	128	25447	2.105	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	7725	2.130	ug/l	97

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

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