

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042861.D
 Acq On : 06 Aug 2024 10:54
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

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

Quant Time: Aug 07 04:26:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:19:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	40360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	250915	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	230178	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	110832	29.841	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.467%		
60) 4-Bromofluorobenzene	11.079	95	111729	29.753	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.167%		
63) Toluene-d8	8.647	98	314704	30.268	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	111878	47.292	ug/l	99
3) Chloromethane	1.301	50	102319	47.125	ug/l	97
4) Vinyl Chloride	1.374	62	110164	47.522	ug/l	98
5) Bromomethane	1.599	94	64766	45.837	ug/l	100
6) Chloroethane	1.666	64	66110	47.938	ug/l	97
7) Trichlorofluoromethane	1.874	101	161827	43.766	ug/l	100
8) Diethyl Ether	2.136	74	70049	48.219	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	119593	47.448	ug/l	99
10) 1,1-Dichloroethene	2.313	96	112804	46.856	ug/l	97
11) Methyl Iodide	2.447	142	107942	48.749	ug/l	99
12) Methyl Acetate	2.709	43	276239	52.502	ug/l	99
13) Acrolein	2.240	56	31829m	213.076	ug/l	
14) Acrylonitrile	3.069	53	391340	244.675	ug/l	99
15) Acetone	2.386	58	105354	203.006	ug/l	83
16) Carbon Disulfide	2.502	76	225159	44.942	ug/l	100
17) Allyl chloride	2.660	41	185691	47.658	ug/l	98
18) Methylene Chloride	2.788	84	134030	48.008	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	116177	47.386	ug/l	99
20) Diisopropyl ether	3.764	45	420162	49.379	ug/l	94
21) 1,1-Dichloroethane	3.605	63	236838	48.942	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	152312	49.513	ug/l	95
23) tert-Butyl Alcohol	2.983	59	167420	226.965	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	427296	49.046	ug/l	100
25) Chloroform	5.093	83	253723	48.460	ug/l	97
26) Cyclohexane	5.465	56	178898	46.861	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	156438	48.380	ug/l	100
30) 2-Butanone	4.562	43	558857	234.694	ug/l	99
31) 2,2-Dichloropropane	4.471	77	185747	49.161	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	218371	48.772	ug/l	99
33) Carbon Tetrachloride	5.672	117	186259	48.639	ug/l	98
34) Benzene	6.038	78	505361	48.817	ug/l	98
35) Methacrylonitrile	4.922	41	112583	49.677	ug/l	97
36) 1,2-Dichloroethane	6.086	62	187776	49.149	ug/l	100
37) Trichloroethene	7.123	130	125997	48.076	ug/l	94
38) Methylcyclohexane	7.379	83	188437	47.023	ug/l	98
39) 1,2-Dichloropropane	7.428	63	128914	48.849	ug/l	92
40) Dibromomethane	7.580	93	97416	48.889	ug/l	98
41) Bromodichloromethane	7.824	83	191323	48.420	ug/l	99
42) Vinyl Acetate	3.721	43	1715846	246.376	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	189325	46.740	ug/l	100
44) Isopropyl Acetate	6.342	43	312538	48.614	ug/l	98
45) 1,4-Dioxane	7.665	88	64897m	991.748	ug/l	
46) Methyl methacrylate	7.696	41	158503	49.612	ug/l	97
47) n-amyl Acetate	10.842	43	265375	48.254	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	181284	47.859	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	200391	48.850	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	132061	48.593	ug/l	98
51) Ethyl methacrylate	9.116	69	217533	48.919	ug/l	99
52) 1,3-Dichloropropane	9.311	76	217596	48.790	ug/l	99
53) Dibromochloromethane	9.519	129	154083	48.718	ug/l	100
54) 1,2-Dibromoethane	9.610	107	138021	48.833	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	550087	267.874	ug/l	99
56) Bromoform	10.799	173	108428	47.826	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	1072342	247.389	ug/l	99
59) 2-Hexanone	9.433	43	817808	238.699	ug/l	99
61) Tetrachloroethene	9.275	164	110247	48.243	ug/l	97
62) Toluene	8.720	91	548627	48.664	ug/l	100
64) Chlorobenzene	10.080	112	348819	48.343	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	128727	49.144	ug/l	97
66) Ethyl Benzene	10.195	91	607865	48.511	ug/l	96
67) m/p-Xylenes	10.299	106	460332	97.167	ug/l	100
68) o-Xylene	10.640	106	230991	49.461	ug/l	98
69) Styrene	10.653	104	395272	49.152	ug/l	99
70) Isopropylbenzene	10.964	105	600140	48.826	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	214336	48.349	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	177945m	49.140	ug/l	
73) Bromobenzene	11.195	156	150500	48.188	ug/l	98
74) n-propylbenzene	11.305	91	701233	48.769	ug/l	100
75) 2-Chlorotoluene	11.366	91	430674	49.074	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	509101	48.868	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	64940	50.439	ug/l	98
78) 4-Chlorotoluene	11.451	91	488348	48.519	ug/l	99
79) tert-butylbenzene	11.713	119	524019	49.021	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	508606	49.485	ug/l	100
81) sec-Butylbenzene	11.890	105	637336	48.645	ug/l	99
82) p-Isopropyltoluene	12.006	119	531148	48.410	ug/l	99
83) 1,3-Dichlorobenzene	11.970	146	276359	48.076	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	275607	47.689	ug/l	99
85) n-Butylbenzene	12.329	91	475767	48.111	ug/l	98
86) Hexachloroethane	12.536	117	95550	48.253	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	277484	48.456	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	49313	49.240	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	179968	48.306	ug/l	98
90) Hexachlorobutadiene	13.725	225	76947	47.793	ug/l	97
91) Naphthalene	13.774	128	620124	49.445	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	183191	48.691	ug/l	98

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

