

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
 Data File : VX042941.D
 Acq On : 08 Aug 2024 09:47
 Operator : JC/MD
 Sample : VX0808WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0808WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 14:50:30 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

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

Internal Standards						
1) Bromochloromethane	4.903	128	42764	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	249168	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	225401	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	110937	28.093	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.633%		
60) 4-Bromofluorobenzene	11.079	95	109826	29.866	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.567%		
63) Toluene-d8	8.647	98	307632	30.215	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.733%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	46225	18.381	ug/l	100
3) Chloromethane	1.300	50	40370	17.490	ug/l	100
4) Vinyl Chloride	1.373	62	43459	17.636	ug/l	94
5) Bromomethane	1.599	94	26073	17.361	ug/l	96
6) Chloroethane	1.666	64	25065	17.103	ug/l	97
7) Trichlorofluoromethane	1.873	101	72831	18.535	ug/l	97
8) Diethyl Ether	2.136	74	27539	17.832	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.318	101	48557	18.124	ug/l	98
10) 1,1-Dichloroethene	2.312	96	44220	17.279	ug/l	94
11) Methyl Iodide	2.446	142	47130	20.013	ug/l	93
12) Methyl Acetate	2.709	43	110534	19.759	ug/l	97
13) Acrolein	2.239	56	14074	87.008	ug/l	93
14) Acrylonitrile	3.068	53	145273	85.430	ug/l	97
15) Acetone	2.386	58	46364	84.097	ug/l	98
16) Carbon Disulfide	2.501	76	79794	14.984	ug/l #	95
17) Allyl chloride	2.660	41	77105	18.619	ug/l	99
18) Methylene Chloride	2.788	84	48025	16.181	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	43939	16.861	ug/l	98
20) Diisopropyl ether	3.763	45	163261	18.049	ug/l	95
21) 1,1-Dichloroethane	3.605	63	93151	18.109	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	57360	17.540	ug/l	98
23) tert-Butyl Alcohol	2.989	59	67506	86.106	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	170911	18.452	ug/l	99
25) Chloroform	5.092	83	100881	18.125	ug/l	96
26) Cyclohexane	5.464	56	66482	16.384	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	57883	18.026	ug/l	99
30) 2-Butanone	4.562	43	215936	91.319	ug/l	99
31) 2,2-Dichloropropane	4.471	77	78111	20.818	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	85763	19.292	ug/l	98
33) Carbon Tetrachloride	5.672	117	70381	18.508	ug/l	95
34) Benzene	6.037	78	193851	18.857	ug/l	97
35) Methacrylonitrile	4.922	41	41379	18.522	ug/l	89
36) 1,2-Dichloroethane	6.086	62	72926	19.222	ug/l	98
37) Trichloroethene	7.122	130	47934	18.418	ug/l	98
38) Methylcyclohexane	7.372	83	72696	18.268	ug/l	99
39) 1,2-Dichloropropane	7.427	63	48363	18.454	ug/l	92
40) Dibromomethane	7.580	93	36401	18.396	ug/l	96
41) Bromodichloromethane	7.824	83	73111	18.633	ug/l	99
42) Vinyl Acetate	3.721	43	634354	91.725	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	69047	17.406	ug/l	100
44) Isopropyl Acetate	6.342	43	118653	18.585	ug/l	99
45) 1,4-Dioxane	7.665	88	26748m	400.208	ug/l	
46) Methyl methacrylate	7.696	41	58305	18.377	ug/l	96
47) n-amyl Acetate	10.841	43	94053	17.222	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	69738	18.540	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	76282	18.726	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	51619	19.127	ug/l	96
51) Ethyl methacrylate	9.116	69	80005	18.118	ug/l	98
52) 1,3-Dichloropropane	9.305	76	84242	19.021	ug/l	99
53) Dibromochloromethane	9.518	129	56042	17.844	ug/l	99
54) 1,2-Dibromoethane	9.610	107	53596	19.096	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	201437	98.781	ug/l	98
56) Bromoform	10.799	173	39006	17.326	ug/l	96
58) 4-Methyl-2-Pentanone	8.573	43	404551	95.308	ug/l	99
59) 2-Hexanone	9.433	43	310058	92.417	ug/l	99
61) Tetrachloroethene	9.268	164	43657	19.509	ug/l	96
62) Toluene	8.714	91	211850	19.190	ug/l	100
64) Chlorobenzene	10.079	112	137937	19.522	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	51139	19.937	ug/l	99
66) Ethyl Benzene	10.195	91	236705	19.291	ug/l	96
67) m/p-Xylenes	10.299	106	180056	38.812	ug/l	99
68) o-Xylene	10.640	106	90977	19.893	ug/l	100
69) Styrene	10.652	104	151552	19.245	ug/l	99
70) Isopropylbenzene	10.963	105	234391	19.474	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	83728	19.287	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	68101m	19.205	ug/l	
73) Bromobenzene	11.195	156	56526	18.483	ug/l	97
74) n-propylbenzene	11.305	91	266529	18.929	ug/l	99
75) 2-Chlorotoluene	11.366	91	169066	19.673	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	198432	19.451	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	22465	17.818	ug/l	97
78) 4-Chlorotoluene	11.451	91	187988	19.073	ug/l	98
79) tert-butylbenzene	11.713	119	202709	19.365	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	198012	19.674	ug/l	99
81) sec-Butylbenzene	11.890	105	245765	19.156	ug/l	100
82) p-Isopropyltoluene	12.006	119	203657	18.955	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	106157	18.859	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	106538	18.825	ug/l	99
85) n-Butylbenzene	12.335	91	168970	17.449	ug/l	99
86) Hexachloroethane	12.536	117	35146	18.125	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	108495	19.348	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.938	75	17807	18.158	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	65924	18.070	ug/l	98
90) Hexachlorobutadiene	13.725	225	30183	19.145	ug/l	97
91) Naphthalene	13.774	128	229673	18.701	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	68270	18.530	ug/l	98

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

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