

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040583.D
 Acq On : 05 Mar 2024 12:30
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/05/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 05 13:17:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	15141	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90491	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82295	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	47615	20.060	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	66.867%#		
60) 4-Bromofluorobenzene	11.079	95	44721	24.638	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	82.133%		
63) Toluene-d8	8.653	98	107147	31.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	105.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	158148	61.825	ug/l	98
3) Chloromethane	1.294	50	164013	57.711	ug/l	95
4) Vinyl Chloride	1.373	62	173690	62.622	ug/l	99
5) Bromomethane	1.593	94	79707	60.138	ug/l	100
6) Chloroethane	1.666	64	100855	79.885	ug/l	96
7) Trichlorofluoromethane	1.879	101	266128	67.948	ug/l	96
8) Diethyl Ether	2.135	74	89785	61.267	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.324	101	144900	60.402	ug/l	95
10) 1,1-Dichloroethene	2.312	96	141494	61.558	ug/l	96
11) Methyl Iodide	2.446	142	180421	71.631	ug/l	95
12) Methyl Acetate	2.702	43	239042	64.573	ug/l	99
13) Acrolein	2.239	56	222549	402.924	ug/l	99
14) Acrylonitrile	3.068	53	462809	272.619	ug/l	98
15) Acetone	2.385	58	124691	232.859	ug/l	71
16) Carbon Disulfide	2.507	76	392530	63.343	ug/l	99
17) Allyl chloride	2.660	41	262130	57.833	ug/l	89
18) Methylene Chloride	2.788	84	161948	60.272	ug/l	97
19) trans-1,2-Dichloroethene	3.086	96	154509	63.350	ug/l	99
20) Diisopropyl ether	3.763	45	542588	61.329	ug/l	91
21) 1,1-Dichloroethane	3.605	63	302596	61.257	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	182119	63.880	ug/l	95
23) tert-Butyl Alcohol	2.983	59	230088	289.331	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	536842	63.722	ug/l	96
25) Chloroform	5.092	83	333152	68.720	ug/l	94
26) Cyclohexane	5.470	56	242363	56.557	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	236597	91.110	ug/l	98
30) 2-Butanone	4.562	43	716523	384.709	ug/l	98
31) 2,2-Dichloropropane	4.476	77	263075	91.118	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	302729	100.865	ug/l	98
33) Carbon Tetrachloride	5.671	117	257156	108.686	ug/l	97
34) Benzene	6.037	78	636848	82.670	ug/l	98
35) Methacrylonitrile	4.922	41	152101	84.874	ug/l	96
36) 1,2-Dichloroethane	6.086	62	296560	98.172	ug/l	96
37) Trichloroethene	7.122	130	171881	93.911	ug/l	100
38) Methylcyclohexane	7.378	83	246462	77.573	ug/l	99
39) 1,2-Dichloropropane	7.433	63	156654	75.472	ug/l	98
40) Dibromomethane	7.580	93	123397	88.012	ug/l	96
41) Bromodichloromethane	7.823	83	253239	97.471	ug/l	100
42) Vinyl Acetate	3.727	43	2575374	418.206	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	274108	78.518	ug/l	100
44) Isopropyl Acetate	6.342	43	451041	83.576	ug/l	96
45) 1,4-Dioxane	7.659	88	86643	1665.217	ug/l	96
46) Methyl methacrylate	7.695	41	219827	84.813	ug/l	94
47) n-amyl Acetate	10.841	43	403742	85.663	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	276895	99.024	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	274205	89.540	ug/l	93
50) 1,1,2-Trichloroethane	9.152	97	165061	85.884	ug/l	98
51) Ethyl methacrylate	9.116	69	272495	84.877	ug/l	95
52) 1,3-Dichloropropane	9.311	76	273084	82.341	ug/l	100
53) Dibromochloromethane	9.524	129	192788	107.788	ug/l	100
54) 1,2-Dibromoethane	9.610	107	178192	88.468	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	673444	431.088	ug/l	100
56) Bromoform	10.799	173	148504	123.270	ug/l #	97
58) 4-Methyl-2-Pentanone	8.579	43	1394247	515.063	ug/l	99
59) 2-Hexanone	9.433	43	1115918	509.271	ug/l	97
61) Tetrachloroethene	9.274	164	139090	127.592	ug/l	96
62) Toluene	8.720	91	669412	109.724	ug/l	99
64) Chlorobenzene	10.079	112	416755	117.490	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.164	131	164816	130.695	ug/l	98
66) Ethyl Benzene	10.195	91	792614	118.315	ug/l	99
67) m/p-Xylenes	10.305	106	588491	240.494	ug/l	97
68) o-Xylene	10.640	106	289160	117.706	ug/l	96
69) Styrene	10.658	104	499592	127.207	ug/l	98
70) Isopropylbenzene	10.963	105	787947	121.521	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	276237	110.918	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	236839m	113.697	ug/l	
73) Bromobenzene	11.201	156	187738	131.142	ug/l	95
74) n-propylbenzene	11.305	91	978115	126.519	ug/l	99
75) 2-Chlorotoluene	11.365	91	587913	122.409	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	754508	136.211	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	87895	128.576	ug/l	85
78) 4-Chlorotoluene	11.457	91	753519	141.453	ug/l	98
79) tert-butylbenzene	11.713	119	705822	134.477	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	744028	135.344	ug/l	98
81) sec-Butylbenzene	11.890	105	913171	135.375	ug/l	99
82) p-Isopropyltoluene	12.006	119	762734	142.076	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	390059	145.780	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	392391	147.859	ug/l	99
85) n-Butylbenzene	12.335	91	757234	154.112	ug/l	99
86) Hexachloroethane	12.536	117	141282	153.825	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	374169	139.542	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	82215	137.866	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	250113	165.442	ug/l	98
90) Hexachlorobutadiene	13.725	225	98534	148.885	ug/l	96
91) Naphthalene	13.774	128	839683	142.365	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	246470	157.461	ug/l	100

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

