

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034767.D
 Acq On : 27 Mar 2023 23:20
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 05:47:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 05:37:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	28444	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	202784	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	223911	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	85680	37.410	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 124.700%#			
60) 4-Bromofluorobenzene	11.079	95	137380m	34.027	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 113.433%#			
63) Toluene-d8	8.647	98	228218	31.713	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.700%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	144280	56.347	ug/l	98
3) Chloromethane	1.295	50	183183	60.343	ug/l	100
4) Vinyl Chloride	1.374	62	181384	61.608	ug/l	100
5) Bromomethane	1.618	94	114942	59.385	ug/l	96
6) Chloroethane	1.691	64	115869	70.862	ug/l	100
7) Trichlorofluoromethane	1.886	101	289777	65.906	ug/l	100
8) Diethyl Ether	2.130	74	101967	61.224	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	142851	56.016	ug/l	90
10) 1,1-Dichloroethene	2.319	96	145693	57.495	ug/l	93
11) Methyl Iodide	2.453	142	189250	50.991	ug/l	94
12) Methyl Acetate	2.703	43	322871	68.487	ug/l	99
13) Acrolein	2.240	56	185763	338.362	ug/l	95
14) Acrylonitrile	3.063	53	444372	301.451	ug/l	99
15) Acetone	2.386	58	120914	278.736	ug/l	92
16) Carbon Disulfide	2.514	76	378887	60.482	ug/l	99
17) Allyl chloride	2.666	41	284429	61.320	ug/l	95
18) Methylene Chloride	2.788	84	166803	57.369	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	158333	57.967	ug/l	94
20) Diisopropyl ether	3.758	45	576337	62.134	ug/l	95
21) 1,1-Dichloroethane	3.611	63	309194	61.428	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	185557	57.614	ug/l	91
23) tert-Butyl Alcohol	2.989	59	199123m	373.839	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	532598	61.281	ug/l	96
25) Chloroform	5.093	83	313906	62.169	ug/l	96
26) Cyclohexane	5.471	56	273670	61.109	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	236521	59.575	ug/l	96
30) 2-Butanone	4.556	43	650843	291.537	ug/l	98
31) 2,2-Dichloropropane	4.477	77	235699	61.189	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	273745	59.436	ug/l	98
33) Carbon Tetrachloride	5.678	117	231614	57.608	ug/l	97
34) Benzene	6.038	78	677811	57.304	ug/l	96
35) Methacrylonitrile	4.916	41	142730	58.895	ug/l	93
36) 1,2-Dichloroethane	6.086	62	265152	61.996	ug/l	95
37) Trichloroethene	7.123	130	176398	54.381	ug/l	93
38) Methylcyclohexane	7.379	83	258371	55.122	ug/l	98
39) 1,2-Dichloropropane	7.428	63	178211	60.200	ug/l	99
40) Dibromomethane	7.580	93	122317	58.522	ug/l	89
41) Bromodichloromethane	7.824	83	231980	58.923	ug/l	99
42) Vinyl Acetate	3.721	43	2160805	289.319	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	258325	58.842	ug/l	99
44) Isopropyl Acetate	6.336	43	433000	63.673	ug/l	99
45) 1,4-Dioxane	7.702	88	86540	1236.462	ug/l #	95
46) Methyl methacrylate	7.690	41	211500	62.285	ug/l	94
47) n-amyl Acetate	10.842	43	390785	67.444	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	259789	61.670	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	280668	59.590	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	169795	55.284	ug/l	96
51) Ethyl methacrylate	9.116	69	279051	60.001	ug/l	97
52) 1,3-Dichloropropane	9.305	76	302382	57.612	ug/l	99
53) Dibromochloromethane	9.519	129	174245	53.230	ug/l	99
54) 1,2-Dibromoethane	9.610	107	184284	55.658	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	749223	332.656	ug/l	97
56) Bromoform	10.799	173	119535	48.936	ug/l #	97
58) 4-Methyl-2-Pentanone	8.574	43	1297680	308.082	ug/l	99
59) 2-Hexanone	9.427	43	993678	314.384	ug/l	100
61) Tetrachloroethene	9.275	164	150410	51.162	ug/l	95
62) Toluene	8.720	91	736657	58.095	ug/l	99
64) Chlorobenzene	10.080	112	453832	54.405	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	166390	54.174	ug/l	98
66) Ethyl Benzene	10.195	91	839800	58.244	ug/l	95
67) m/p-Xylenes	10.299	106	632677	112.286	ug/l	94
68) o-Xylene	10.640	106	310923	55.341	ug/l	89
69) Styrene	10.653	104	517941	56.333	ug/l	94
70) Isopropylbenzene	10.964	105	815976	56.781	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.214	83	268034	59.947	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	225295m	55.471	ug/l	
73) Bromobenzene	11.195	156	192108	50.408	ug/l	79
74) n-propylbenzene	11.305	91	963859	58.838	ug/l	96
75) 2-Chlorotoluene	11.366	91	587644	59.679	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	686532	57.677	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	77474	63.348	ug/l	97
78) 4-Chlorotoluene	11.451	91	679096	61.198	ug/l	93
79) tert-butylbenzene	11.713	119	658109	54.748	ug/l	91
80) 1,2,4-Trimethylbenzene	11.750	105	688307	58.221	ug/l	97
81) sec-Butylbenzene	11.890	105	801000	54.851	ug/l	97
82) p-Isopropyltoluene	12.006	119	681686	54.349	ug/l	94
83) 1,3-Dichlorobenzene	11.969	146	369149	53.141	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	374379	53.781	ug/l	96
85) n-Butylbenzene	12.335	91	591152	57.277	ug/l	97
86) Hexachloroethane	12.536	117	113624	57.398	ug/l	75
87) 1,2-Dichlorobenzene	12.335	146	358791	53.439	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	61613	68.026	ug/l #	73
89) 1,2,4-Trichlorobenzene	13.591	180	219232	48.309	ug/l	98
90) Hexachlorobutadiene	13.725	225	83951	40.607	ug/l	97
91) Naphthalene	13.774	128	770689	55.512	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	217794	48.663	ug/l	97

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

