

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092723\
 Data File : VX037932.D
 Acq On : 27 Sep 2023 19:13
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Sep 28 05:45:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 03:42:12 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/28/2023
 Supervised By : Semsettin Yesilyurt 09/28/2023

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

Internal Standards						
1) Bromochloromethane	4.898	128	46833	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	261348	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	252102	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	101479	30.060	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.200%	
60) 4-Bromofluorobenzene	11.079	95	123131	29.961	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.867%	
63) Toluene-d8	8.647	98	329235	30.253	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.833%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	118661	48.333	ug/l	100
3) Chloromethane	1.295	50	128901	49.025	ug/l	96
4) Vinyl Chloride	1.374	62	144247	49.007	ug/l	99
5) Bromomethane	1.605	94	116558m	51.404	ug/l	
6) Chloroethane	1.685	64	94025	47.566	ug/l	93
7) Trichlorofluoromethane	1.886	101	239539	49.303	ug/l	99
8) Diethyl Ether	2.130	74	88366	49.299	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.331	101	120882	48.801	ug/l	98
10) 1,1-Dichloroethene	2.319	96	119581	49.317	ug/l	93
11) Methyl Iodide	2.453	142	163073	49.692	ug/l	100
12) Methyl Acetate	2.703	43	242260	49.155	ug/l	98
13) Acrolein	2.233	56	137053	240.977	ug/l	95
14) Acrylonitrile	3.063	53	334702	245.966	ug/l	98
15) Acetone	2.380	58	92291	234.474	ug/l	89
16) Carbon Disulfide	2.514	76	294829	49.829	ug/l	97
17) Allyl chloride	2.666	41	184068	49.585	ug/l	97
18) Methylene Chloride	2.788	84	139648	48.053	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	134820	49.332	ug/l	96
20) Diisopropyl ether	3.758	45	391820	49.440	ug/l	88
21) 1,1-Dichloroethane	3.611	63	235842	49.254	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	160901	49.586	ug/l	95
23) tert-Butyl Alcohol	2.953	59	137569m	242.371	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	413877	49.314	ug/l	96
25) Chloroform	5.093	83	261534	49.665	ug/l	99
26) Cyclohexane	5.471	56	201143	49.361	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	186752	49.433	ug/l	96
30) 2-Butanone	4.550	43	447469	246.803	ug/l	96
31) 2,2-Dichloropropane	4.477	77	188419	49.506	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	226449	50.023	ug/l	98
33) Carbon Tetrachloride	5.678	117	196770	50.777	ug/l	95
34) Benzene	6.038	78	559814	49.604	ug/l #	96
35) Methacrylonitrile	4.922	41	95783	50.249	ug/l	94
36) 1,2-Dichloroethane	6.086	62	194432	48.702	ug/l	98
37) Trichloroethene	7.129	130	154835	49.732	ug/l	94
38) Methylcyclohexane	7.379	83	238164	50.155	ug/l	94
39) 1,2-Dichloropropane	7.428	63	143080	49.556	ug/l	96
40) Dibromomethane	7.580	93	106631	50.050	ug/l	98
41) Bromodichloromethane	7.824	83	198237	50.965	ug/l	99
42) Vinyl Acetate	3.721	43	1441081	252.138	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	177303	49.467	ug/l	99
44) Isopropyl Acetate	6.342	43	296163	49.946	ug/l	97
45) 1,4-Dioxane	7.659	88	67745	991.438	ug/l #	1
46) Methyl methacrylate	7.690	41	142296	50.483	ug/l	92
47) n-amyl Acetate	10.842	43	280359	50.254	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	215076	50.900	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	231317	50.975	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	152243	50.005	ug/l	97
51) Ethyl methacrylate	9.116	69	226932	50.586	ug/l	95
52) 1,3-Dichloropropane	9.311	76	243517	49.862	ug/l	99
53) Dibromochloromethane	9.519	129	161445	51.452	ug/l	100
54) 1,2-Dibromoethane	9.610	107	165954	50.232	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	549195	251.140	ug/l	98
56) Bromoform	10.799	173	119551	50.658	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	921632	249.733	ug/l	95
59) 2-Hexanone	9.427	43	700383	249.901	ug/l	95
61) Tetrachloroethene	9.275	164	134614	50.176	ug/l	97
62) Toluene	8.720	91	645390	49.352	ug/l	99
64) Chlorobenzene	10.080	112	408150	50.032	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	150569	50.847	ug/l	99
66) Ethyl Benzene	10.195	91	727901	50.434	ug/l	97
67) m/p-Xylenes	10.299	106	570545	100.350	ug/l	100
68) o-Xylene	10.640	106	280574	50.959	ug/l	99
69) Styrene	10.653	104	470517	50.940	ug/l	97
70) Isopropylbenzene	10.964	105	738707	50.555	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.214	83	242639	50.384	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	215788m	51.032	ug/l	
73) Bromobenzene	11.195	156	185911	50.162	ug/l	91
74) n-propylbenzene	11.305	91	887259	50.827	ug/l	100
75) 2-Chlorotoluene	11.366	91	512405	50.138	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	637121	50.563	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	69637	51.999	ug/l	89
78) 4-Chlorotoluene	11.451	91	599733	50.025	ug/l	98
79) tert-butylbenzene	11.713	119	631308	50.904	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	632016	50.455	ug/l	99
81) sec-Butylbenzene	11.890	105	806972	50.597	ug/l	99
82) p-Isopropyltoluene	12.006	119	682348	50.959	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	359107	50.147	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	363012	50.026	ug/l	99
85) n-Butylbenzene	12.329	91	641254	51.186	ug/l	99
86) Hexachloroethane	12.536	117	112492	51.565	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	354891	50.299	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	49616	51.726	ug/l	85
89) 1,2,4-Trichlorobenzene	13.585	180	240952	50.194	ug/l	98
90) Hexachlorobutadiene	13.725	225	106619	50.557	ug/l	95
91) Naphthalene	13.774	128	733618	50.389	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	234671	50.213	ug/l	99

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

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