

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093022\
 Data File : VX031808.D
 Acq On : 30 Sep 2022 12:34
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Oct 03 00:36:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X093022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 03 00:33:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	22543	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	122577	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	121808	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	50737	29.903	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.667%
60) 4-Bromofluorobenzene	11.079	95	68413	30.340	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.133%
63) Toluene-d8	8.653	98	184018	29.738	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.133%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	45483	48.385	ug/l	99
3) Chloromethane	1.288	50	48575	49.315	ug/l	99
4) Vinyl Chloride	1.373	62	65993	49.947	ug/l	100
5) Bromomethane	1.611	94	58478	48.377	ug/l	98
6) Chloroethane	1.684	64	60983	52.347	ug/l	89
7) Trichlorofluoromethane	1.886	101	141372	50.069	ug/l	98
8) Diethyl Ether	2.135	74	47641	49.796	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	65287	48.720	ug/l	100
10) 1,1-Dichloroethene	2.318	96	59422	48.013	ug/l	98
11) Methyl Iodide	2.452	142	67794	50.036	ug/l	96
12) Methyl Acetate	2.709	43	69051	48.833	ug/l	100
13) Acrolein	2.239	56	27033	215.832	ug/l	98
14) Acrylonitrile	3.068	53	150451	250.674	ug/l	99
15) Acetone	2.385	58	38864	239.032	ug/l	96
16) Carbon Disulfide	2.513	76	132702	48.873	ug/l	99
17) Allyl chloride	2.666	41	75121	50.141	ug/l	95
18) Methylene Chloride	2.788	84	69313	48.936	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	71425	49.839	ug/l	95
20) Diisopropyl ether	3.757	45	175435	50.956	ug/l	99
21) 1,1-Dichloroethane	3.611	63	113248	50.420	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	86437	49.928	ug/l	97
23) tert-Butyl Alcohol	3.001	59	52499	234.838	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	212182	49.882	ug/l	98
25) Chloroform	5.092	83	138832	50.344	ug/l	99
26) Cyclohexane	5.470	56	93907	50.684	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	95592	50.310	ug/l	99
30) 2-Butanone	4.562	43	193100	249.666	ug/l	99
31) 2,2-Dichloropropane	4.476	77	97009	50.988	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	127525	50.703	ug/l	96
33) Carbon Tetrachloride	5.678	117	115587	50.122	ug/l	97
34) Benzene	6.037	78	285107	50.704	ug/l	98
35) Methacrylonitrile	4.922	41	41544	51.401	ug/l	95
36) 1,2-Dichloroethane	6.086	62	99813	50.382	ug/l	99
37) Trichloroethene	7.128	130	91237	49.732	ug/l	99
38) Methylcyclohexane	7.385	83	116414	50.051	ug/l	99
39) 1,2-Dichloropropane	7.427	63	64178	49.937	ug/l	95
40) Dibromomethane	7.580	93	55729	49.577	ug/l	95
41) Bromodichloromethane	7.823	83	104629	51.319	ug/l	100
42) Vinyl Acetate	3.721	43	724684	259.828	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	77338	49.766	ug/l #	87
44) Isopropyl Acetate	6.342	43	126540	51.231	ug/l	97
45) 1,4-Dioxane	7.689	88	35915	1016.115	ug/l	99
46) Methyl methacrylate	7.695	41	60034	52.071	ug/l	96
47) n-amyl Acetate	10.847	43	113070	53.304	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	107477	53.474	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	114675	52.010	ug/l	97
50) 1,1,2-Trichloroethane	9.152	97	83462	51.263	ug/l	98
51) Ethyl methacrylate	9.116	69	110693	52.447	ug/l	98
52) 1,3-Dichloropropane	9.311	76	129286	51.819	ug/l	98
53) Dibromochloromethane	9.524	129	97064	53.537	ug/l	99
54) 1,2-Dibromoethane	9.610	107	94185	52.219	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	258921	250.192	ug/l	98
56) Bromoform	10.799	173	71597	53.879	ug/l	100
58) 4-Methyl-2-Pentanone	8.573	43	416027	254.050	ug/l	99
59) 2-Hexanone	9.433	43	308505	251.887	ug/l	99
61) Tetrachloroethene	9.274	164	96476	49.326	ug/l	98
62) Toluene	8.720	91	348216	49.930	ug/l	100
64) Chlorobenzene	10.079	112	236830	49.769	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	92228	51.124	ug/l	100
66) Ethyl Benzene	10.195	91	397627	50.590	ug/l	99
67) m/p-Xylenes	10.299	106	335237	102.427	ug/l	98
68) o-Xylene	10.640	106	165426	51.481	ug/l	96
69) Styrene	10.658	104	270616	51.851	ug/l	99
70) Isopropylbenzene	10.963	105	429119	51.387	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	120023	50.425	ug/l	100
72) 1,2,3-Trichloropropane	11.237	75	104136m	50.913	ug/l	
73) Bromobenzene	11.201	156	114848	51.279	ug/l	96
74) n-propylbenzene	11.305	91	471703	51.383	ug/l	99
75) 2-Chlorotoluene	11.366	91	279705	50.678	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	364458	51.775	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	31355	52.455	ug/l	93
78) 4-Chlorotoluene	11.457	91	319094	50.714	ug/l	97
79) tert-butylbenzene	11.713	119	365392	51.639	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	365056	52.298	ug/l	100
81) sec-Butylbenzene	11.890	105	443142	51.139	ug/l	98
82) p-Isopropyltoluene	12.012	119	396557	52.071	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	221291	52.218	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	225662	51.925	ug/l	99
85) n-Butylbenzene	12.335	91	304206	51.798	ug/l	99
86) Hexachloroethane	12.542	117	62107	51.944	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	221460	52.376	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.944	75	25437	53.260	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	141354	51.668	ug/l	99
90) Hexachlorobutadiene	13.725	225	54313	49.416	ug/l	99
91) Naphthalene	13.774	128	456471	52.150	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	139820	51.600	ug/l	97

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

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