

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100523\
 Data File : VX038110.D
 Acq On : 05 Oct 2023 20:00
 Operator : JC/MD
 Sample : VX1005WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1005WBSD02

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

10/06/2023
 Supervised By :Mahesh
 Dadoda

Quant Time: Oct 06 06:34:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	24875	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	142387	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	140304	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	63725	35.539	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 118.467%#	
60) 4-Bromofluorobenzene	11.079	95	68490	29.945	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.800%	
63) Toluene-d8	8.647	98	183034	30.220	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.733%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25002	19.173	ug/l	97
3) Chloromethane	1.301	50	25399	18.187	ug/l	93
4) Vinyl Chloride	1.374	62	30635	19.596	ug/l	99
5) Bromomethane	1.605	94	30228	25.099	ug/l	95
6) Chloroethane	1.685	64	23255	22.157	ug/l	97
7) Trichlorofluoromethane	1.886	101	61537	23.846	ug/l	97
8) Diethyl Ether	2.136	74	22112	23.226	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.331	101	24189	18.386	ug/l	97
10) 1,1-Dichloroethene	2.319	96	23089	17.928	ug/l	98
11) Methyl Iodide	2.453	142	34315	19.687	ug/l	97
12) Methyl Acetate	2.703	43	70687	27.003	ug/l	97
13) Acrolein	2.233	56	35014	115.909	ug/l	96
14) Acrylonitrile	3.062	53	94952	131.374	ug/l	96
15) Acetone	2.380	58	26132	124.996	ug/l	99
16) Carbon Disulfide	2.514	76	57570	18.319	ug/l	96
17) Allyl chloride	2.666	41	38370	19.460	ug/l	93
18) Methylene Chloride	2.788	84	30291	19.624	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	28366	19.541	ug/l	98
20) Diisopropyl ether	3.764	45	88649	21.060	ug/l	94
21) 1,1-Dichloroethane	3.611	63	53216	20.924	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	35059	20.342	ug/l	99
23) tert-Butyl Alcohol	2.959	59	47656	158.028	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	93926	21.070	ug/l	99
25) Chloroform	5.099	83	60179	21.516	ug/l	98
26) Cyclohexane	5.471	56	45100	20.837	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	42342	20.572	ug/l	99
30) 2-Butanone	4.556	43	140904	142.646	ug/l	98
31) 2,2-Dichloropropane	4.477	77	36287	17.500	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	49383	20.023	ug/l	98
33) Carbon Tetrachloride	5.678	117	41396	19.607	ug/l	94
34) Benzene	6.044	78	124855	20.306	ug/l	97
35) Methacrylonitrile	4.922	41	26666	25.677	ug/l	97
36) 1,2-Dichloroethane	6.092	62	49839	22.914	ug/l	99
37) Trichloroethene	7.129	130	33161	19.550	ug/l	97
38) Methylcyclohexane	7.385	83	49992	19.324	ug/l	97
39) 1,2-Dichloropropane	7.434	63	31715	20.162	ug/l	95
40) Dibromomethane	7.586	93	25327	21.820	ug/l	95
41) Bromodichloromethane	7.824	83	44141	20.829	ug/l	98
42) Vinyl Acetate	3.721	43	344333	110.580	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	52012	26.635	ug/l	97
44) Isopropyl Acetate	6.342	43	77879	24.107	ug/l	100
45) 1,4-Dioxane	7.659	88	19385	520.718	ug/l #	1
46) Methyl methacrylate	7.696	41	36376	23.687	ug/l	99
47) n-amyl Acetate	10.842	43	67402	22.176	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	44933	19.518	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	48147	19.475	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	34337	20.701	ug/l	98
51) Ethyl methacrylate	9.116	69	51734	21.167	ug/l	98
52) 1,3-Dichloropropane	9.311	76	56539	21.249	ug/l	100
53) Dibromochloromethane	9.519	129	33120	19.374	ug/l	99
54) 1,2-Dibromoethane	9.610	107	37488	20.827	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	130090	109.190	ug/l	99
56) Bromoform	10.799	173	23822	18.528	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	281921	137.263	ug/l	100
59) 2-Hexanone	9.433	43	227095	145.595	ug/l	99
61) Tetrachloroethene	9.275	164	27817	18.630	ug/l	98
62) Toluene	8.720	91	146153	20.082	ug/l	99
64) Chlorobenzene	10.080	112	91241	20.097	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	30765	18.668	ug/l	99
66) Ethyl Benzene	10.195	91	162842	20.273	ug/l	99
67) m/p-Xylenes	10.299	106	123570	39.052	ug/l	93
68) o-Xylene	10.640	106	60490	19.741	ug/l	95
69) Styrene	10.653	104	101611	19.766	ug/l	98
70) Isopropylbenzene	10.964	105	161842	19.902	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	59820	22.320	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	54827m	23.298	ug/l	
73) Bromobenzene	11.195	156	39060	18.937	ug/l	97
74) n-propylbenzene	11.305	91	198022	20.383	ug/l	98
75) 2-Chlorotoluene	11.366	91	116472	20.478	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	139809	19.936	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	14248	19.117	ug/l	97
78) 4-Chlorotoluene	11.457	91	138472	20.754	ug/l	99
79) tert-butylbenzene	11.713	119	132868	19.250	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	138349	19.845	ug/l	98
81) sec-Butylbenzene	11.890	105	177828	20.034	ug/l	97
82) p-Isopropyltoluene	12.006	119	144134	19.342	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	76516	19.199	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	78326	19.395	ug/l	99
85) n-Butylbenzene	12.335	91	138984	19.934	ug/l	98
86) Hexachloroethane	12.542	117	22293	18.361	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	73651	18.756	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13739	25.736	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	49309	18.457	ug/l	99
90) Hexachlorobutadiene	13.725	225	19923	16.975	ug/l	99
91) Naphthalene	13.774	128	171705	21.191	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	48661	18.709	ug/l	99

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

