

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030624\
 Data File : VX040594.D
 Acq On : 06 Mar 2024 09:36
 Operator : JC/MD
 Sample : VX0306WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/07/2024
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 04:32:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	16396	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	90504	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85931	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	48060	29.349	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.833%		
60) 4-Bromofluorobenzene	11.079	95	44535	30.214	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.700%		
63) Toluene-d8	8.647	98	113759	29.956	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.867%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19764	17.773	ug/l	96
3) Chloromethane	1.294	50	20690	18.159	ug/l	98
4) Vinyl Chloride	1.373	62	22615	18.365	ug/l	97
5) Bromomethane	1.605	94	16190	21.527	ug/l	99
6) Chloroethane	1.690	64	13377	18.490	ug/l	95
7) Trichlorofluoromethane	1.886	101	38495	20.532	ug/l	99
8) Diethyl Ether	2.129	74	11278	17.717	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	19362	18.854	ug/l	93
10) 1,1-Dichloroethene	2.318	96	17698	18.101	ug/l	95
11) Methyl Iodide	2.453	142	20950	17.716	ug/l	94
12) Methyl Acetate	2.702	43	28625	17.773	ug/l	97
13) Acrolein	2.233	56	25775	84.889	ug/l	100
14) Acrylonitrile	3.062	53	59673	94.092	ug/l	98
15) Acetone	2.379	58	16399	90.462	ug/l	72
16) Carbon Disulfide	2.514	76	47408	17.642	ug/l	97
17) Allyl chloride	2.660	41	32705	18.126	ug/l	90
18) Methylene Chloride	2.788	84	21116	18.916	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	19518	18.285	ug/l	99
20) Diisopropyl ether	3.757	45	65842	18.246	ug/l #	99
21) 1,1-Dichloroethane	3.611	63	38391	18.488	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	22515	18.163	ug/l	94
23) tert-Butyl Alcohol	2.959	59	27335m	91.225	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	67855	18.805	ug/l	95
25) Chloroform	5.092	83	42160	18.550	ug/l	93
26) Cyclohexane	5.470	56	30649	18.289	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	30084	19.204	ug/l	96
30) 2-Butanone	4.550	43	90365	94.529	ug/l	98
31) 2,2-Dichloropropane	4.477	77	32192	19.039	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	36083	18.280	ug/l	97
33) Carbon Tetrachloride	5.678	117	30206	18.188	ug/l	97
34) Benzene	6.037	78	79398	18.775	ug/l	98
35) Methacrylonitrile	4.909	41	18853	19.211	ug/l	99
36) 1,2-Dichloroethane	6.086	62	37310	19.081	ug/l #	92
37) Trichloroethene	7.122	130	21608	19.014	ug/l	92
38) Methylcyclohexane	7.378	83	32327	19.164	ug/l	97
39) 1,2-Dichloropropane	7.427	63	20358	18.907	ug/l	95
40) Dibromomethane	7.580	93	17332	20.489	ug/l	95
41) Bromodichloromethane	7.817	83	33066	19.649	ug/l	98
42) Vinyl Acetate	3.721	43	312030	94.804	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	32406	18.000	ug/l	99
44) Isopropyl Acetate	6.336	43	54441	18.944	ug/l	96
45) 1,4-Dioxane	7.659	88	11230	380.154	ug/l	97
46) Methyl methacrylate	7.689	41	28641	20.066	ug/l	96
47) n-amyl Acetate	10.841	43	45927	18.543	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	33741	18.970	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	35510	19.598	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	22534	20.055	ug/l	96
51) Ethyl methacrylate	9.116	69	34484	19.494	ug/l	97
52) 1,3-Dichloropropane	9.305	76	37026	19.312	ug/l	98
53) Dibromochloromethane	9.518	129	24326	18.992	ug/l	98
54) 1,2-Dibromoethane	9.610	107	24089	19.375	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	90346	100.291	ug/l	98
56) Bromoform	10.799	173	17602	19.375	ug/l #	98
58) 4-Methyl-2-Pentanone	8.567	43	185055	96.712	ug/l	98
59) 2-Hexanone	9.427	43	146261	94.632	ug/l	96
61) Tetrachloroethene	9.274	164	19831	19.444	ug/l	95
62) Toluene	8.720	91	90595	19.142	ug/l	98
64) Chlorobenzene	10.079	112	55374	19.143	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.158	131	20841	18.890	ug/l	98
66) Ethyl Benzene	10.195	91	102071	18.705	ug/l	100
67) m/p-Xylenes	10.299	106	76272	37.851	ug/l	96
68) o-Xylene	10.640	106	37318	19.238	ug/l	94
69) Styrene	10.652	104	62609	19.210	ug/l	97
70) Isopropylbenzene	10.963	105	102447	19.545	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	35939	19.558	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	32187m	19.467	ug/l	
73) Bromobenzene	11.195	156	24333	19.610	ug/l	95
74) n-propylbenzene	11.305	91	126969	19.613	ug/l	100
75) 2-Chlorotoluene	11.366	91	74508	19.395	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	89493	19.393	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9603	18.689	ug/l	81
78) 4-Chlorotoluene	11.451	91	89776	19.590	ug/l	96
79) tert-butylbenzene	11.713	119	82641	19.187	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	88687	19.506	ug/l	97
81) sec-Butylbenzene	11.890	105	107012	18.818	ug/l	100
82) p-Isopropyltoluene	12.006	119	90919	19.533	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	46215	19.141	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	48125	19.491	ug/l	98
85) n-Butylbenzene	12.335	91	85017	18.771	ug/l	98
86) Hexachloroethane	12.536	117	15265	18.795	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	45068	19.208	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.938	75	8808	17.926	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	28345	17.942	ug/l	98
90) Hexachlorobutadiene	13.725	225	12132	18.992	ug/l	99
91) Naphthalene	13.774	128	98233	19.063	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	30278	19.437	ug/l	99

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

