

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031924\
 Data File : VX040711.D
 Acq On : 19 Mar 2024 10:18
 Operator : JC/MD
 Sample : VX0319WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0319WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/20/2024
 Supervised By : Mahesh Dadoda 03/20/2024

Quant Time: Mar 20 04:32:13 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	4.891	128	16180	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	81638	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	78864	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	45790	28.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.467%		
60) 4-Bromofluorobenzene	11.079	95	42405	31.347	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.500%		
63) Toluene-d8	8.647	98	103398	29.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	19918	18.150	ug/l	99
3) Chloromethane	1.295	50	20863	18.555	ug/l	97
4) Vinyl Chloride	1.374	62	22226	18.290	ug/l	94
5) Bromomethane	1.605	94	18579	25.034	ug/l	97
6) Chloroethane	1.685	64	14089	19.734	ug/l	98
7) Trichlorofluoromethane	1.892	101	33805	18.272	ug/l	96
8) Diethyl Ether	2.130	74	12331	19.630	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	20514	20.242	ug/l	96
10) 1,1-Dichloroethene	2.319	96	18375	19.044	ug/l	93
11) Methyl Iodide	2.453	142	18388	15.757	ug/l	97
12) Methyl Acetate	2.697	43	34495	21.704	ug/l	96
13) Acrolein	2.233	56	39526	131.915	ug/l	99
14) Acrylonitrile	3.056	53	65670	104.930	ug/l	99
15) Acetone	2.374	58	21358	119.390	ug/l	82
16) Carbon Disulfide	2.514	76	44175	16.659	ug/l	100
17) Allyl chloride	2.666	41	35309	19.830	ug/l	93
18) Methylene Chloride	2.788	84	21942	19.918	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	19236	18.261	ug/l	95
20) Diisopropyl ether	3.751	45	74782	21.000	ug/l	93
21) 1,1-Dichloroethane	3.605	63	40298	19.666	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	24072	19.678	ug/l	95
23) tert-Butyl Alcohol	2.941	59	30098m	101.787	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	75451	21.189	ug/l	95
25) Chloroform	5.093	83	44629	19.899	ug/l	96
26) Cyclohexane	5.465	56	31465	19.027	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	30221	21.386	ug/l	96
30) 2-Butanone	4.544	43	103927	120.523	ug/l	98
31) 2,2-Dichloropropane	4.471	77	34180	22.411	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	38432	21.584	ug/l	99
33) Carbon Tetrachloride	5.672	117	31913	21.302	ug/l	95
34) Benzene	6.038	78	82855	21.720	ug/l	99
35) Methacrylonitrile	4.910	41	21096	23.831	ug/l	93
36) 1,2-Dichloroethane	6.080	62	42049	23.840	ug/l	95
37) Trichloroethene	7.117	130	22374	21.826	ug/l	92
38) Methylcyclohexane	7.379	83	34236	22.500	ug/l	99
39) 1,2-Dichloropropane	7.428	63	22461	23.125	ug/l	94
40) Dibromomethane	7.574	93	18180	23.826	ug/l	97
41) Bromodichloromethane	7.818	83	34577	22.778	ug/l	97
42) Vinyl Acetate	3.715	43	347468	117.036	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	38127	23.477	ug/l	98
44) Isopropyl Acetate	6.330	43	60050	23.165	ug/l	95
45) 1,4-Dioxane	7.653	88	12426	466.323	ug/l	97
46) Methyl methacrylate	7.690	41	31754	24.662	ug/l	96
47) n-amyl Acetate	10.842	43	50918	22.790	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	37505	23.376	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	38025	23.265	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	23783	23.465	ug/l	98
51) Ethyl methacrylate	9.110	69	37336	23.398	ug/l	97
52) 1,3-Dichloropropane	9.305	76	40584	23.466	ug/l	99
53) Dibromochloromethane	9.519	129	26477	22.916	ug/l	99
54) 1,2-Dibromoethane	9.604	107	25988	23.173	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	81138	99.851	ug/l	99
56) Bromoform	10.799	173	19300	23.551	ug/l #	96
58) 4-Methyl-2-Pentanone	8.568	43	202818	115.493	ug/l	99
59) 2-Hexanone	9.427	43	163365	115.170	ug/l	96
61) Tetrachloroethene	9.269	164	20673	22.085	ug/l	97
62) Toluene	8.714	91	93963	21.633	ug/l	98
64) Chlorobenzene	10.073	112	58510	22.040	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.159	131	22345	22.068	ug/l	98
66) Ethyl Benzene	10.189	91	109331	21.831	ug/l	98
67) m/p-Xylenes	10.299	106	80199	43.366	ug/l	92
68) o-Xylene	10.640	106	38670	21.721	ug/l	93
69) Styrene	10.653	104	65352	21.849	ug/l	97
70) Isopropylbenzene	10.957	105	107867	22.423	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	39555	23.455	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	36172m	23.838	ug/l	
73) Bromobenzene	11.195	156	25605	22.484	ug/l	97
74) n-propylbenzene	11.299	91	133905	22.538	ug/l	99
75) 2-Chlorotoluene	11.360	91	79669	22.596	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	94481	22.309	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10926	23.169	ug/l	82
78) 4-Chlorotoluene	11.451	91	93302	22.183	ug/l	99
79) tert-butylbenzene	11.713	119	87465	22.127	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	91407	21.906	ug/l	99
81) sec-Butylbenzene	11.890	105	116449	22.313	ug/l	99
82) p-Isopropyltoluene	12.006	119	93812	21.961	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	49224	22.214	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	50745	22.393	ug/l	99
85) n-Butylbenzene	12.329	91	92408	22.231	ug/l	96
86) Hexachloroethane	12.536	117	15912	21.347	ug/l	86
87) 1,2-Dichlorobenzene	12.335	146	48669	22.602	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10183	22.582	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	28431	19.609	ug/l	98
90) Hexachlorobutadiene	13.725	225	11233	19.161	ug/l	97
91) Naphthalene	13.774	128	89737	18.975	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	27486	19.226	ug/l	99

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

