

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042398.D
 Acq On : 19 Jul 2024 12:47
 Operator : JC/MD
 Sample : VX0719WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0719WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/19/2024
 Supervised By : Mahesh Dadoda 07/22/2024

Quant Time: Jul 19 16:07:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	33069	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	184472	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	170922	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	70087	29.588	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.633%		
60) 4-Bromofluorobenzene	11.079	95	80775	30.374	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.233%		
63) Toluene-d8	8.647	98	221102	29.778	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.267%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	35619	17.969	ug/l	98
3) Chloromethane	1.295	50	36516	17.618	ug/l	100
4) Vinyl Chloride	1.374	62	34828	16.915	ug/l	99
5) Bromomethane	1.593	94	18311	17.715	ug/l	98
6) Chloroethane	1.666	64	15650	17.636	ug/l	99
7) Trichlorofluoromethane	1.868	101	47434	18.412	ug/l	99
8) Diethyl Ether	2.136	74	21096	19.525	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	36767	18.325	ug/l	99
10) 1,1-Dichloroethene	2.307	96	34830	18.064	ug/l	95
11) Methyl Iodide	2.447	142	37009	16.977	ug/l	98
12) Methyl Acetate	2.709	43	68771	21.701	ug/l	99
13) Acrolein	2.239	56	39198	98.466	ug/l	97
14) Acrylonitrile	3.069	53	121443	102.048	ug/l	100
15) Acetone	2.392	58	33133	93.600	ug/l	95
16) Carbon Disulfide	2.502	76	65193	17.104	ug/l	98
17) Allyl chloride	2.654	41	59767	19.481	ug/l	95
18) Methylene Chloride	2.782	84	42728	19.404	ug/l	93
19) trans-1,2-Dichloroethene	3.087	96	35554	18.255	ug/l	98
20) Diisopropyl ether	3.764	45	127161	19.670	ug/l	99
21) 1,1-Dichloroethane	3.605	63	68244	18.596	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	45744	18.756	ug/l	98
23) tert-Butyl Alcohol	2.989	59	46890	103.388	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	127766	19.853	ug/l	99
25) Chloroform	5.093	83	71113	18.749	ug/l	95
26) Cyclohexane	5.465	56	55004	18.097	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	44927	18.677	ug/l	98
30) 2-Butanone	4.562	43	168499	104.916	ug/l	100
31) 2,2-Dichloropropane	4.471	77	53251	19.256	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	58844	18.939	ug/l	100
33) Carbon Tetrachloride	5.672	117	49250	18.150	ug/l	99
34) Benzene	6.031	78	152240	19.275	ug/l	98
35) Methacrylonitrile	4.922	41	33821	21.340	ug/l	93
36) 1,2-Dichloroethane	6.086	62	51893	20.257	ug/l	99
37) Trichloroethene	7.123	130	41260	19.425	ug/l	96
38) Methylcyclohexane	7.379	83	59087	19.102	ug/l	98
39) 1,2-Dichloropropane	7.428	63	37847	19.492	ug/l	99
40) Dibromomethane	7.580	93	28134	20.074	ug/l	100
41) Bromodichloromethane	7.818	83	50688	19.283	ug/l	99
42) Vinyl Acetate	3.721	43	542131	104.335	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	60998	21.401	ug/l	98
44) Isopropyl Acetate	6.342	43	92379	20.632	ug/l	99
45) 1,4-Dioxane	7.671	88	22034m	439.263	ug/l	
46) Methyl methacrylate	7.696	41	45574	20.886	ug/l	98
47) n-amyl Acetate	10.842	43	81013	20.363	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	51828	19.777	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	58408	19.830	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	42303	20.582	ug/l	99
51) Ethyl methacrylate	9.116	69	66749	20.767	ug/l	99
52) 1,3-Dichloropropane	9.305	76	68737	20.588	ug/l	97
53) Dibromochloromethane	9.519	129	44576	19.736	ug/l	99
54) 1,2-Dibromoethane	9.610	107	43659	20.425	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	170523	109.457	ug/l	100
56) Bromoform	10.799	173	35471	19.488	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	324352	107.675	ug/l	99
59) 2-Hexanone	9.433	43	250459	106.155	ug/l	100
61) Tetrachloroethene	9.269	164	40447	19.507	ug/l	97
62) Toluene	8.714	91	166720	19.510	ug/l	99
64) Chlorobenzene	10.080	112	114154	19.796	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	40574	19.553	ug/l	98
66) Ethyl Benzene	10.195	91	181593	19.500	ug/l	100
67) m/p-Xylenes	10.299	106	146238	39.278	ug/l	99
68) o-Xylene	10.640	106	72635	19.603	ug/l	98
69) Styrene	10.653	104	121987	19.575	ug/l	99
70) Isopropylbenzene	10.964	105	186288	19.719	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	68123	20.955	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	54735m	21.205	ug/l	
73) Bromobenzene	11.195	156	53385	19.774	ug/l	99
74) n-propylbenzene	11.305	91	204126	19.559	ug/l	99
75) 2-Chlorotoluene	11.360	91	129407	19.717	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	155510	19.703	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18685	19.737	ug/l	98
78) 4-Chlorotoluene	11.451	91	142756	19.525	ug/l	99
79) tert-butylbenzene	11.713	119	167398	19.868	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	157165	19.790	ug/l	100
81) sec-Butylbenzene	11.890	105	193702	19.457	ug/l	100
82) p-Isopropyltoluene	12.006	119	170490	19.762	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	94737	19.536	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	96043	19.939	ug/l	99
85) n-Butylbenzene	12.329	91	129685	19.140	ug/l	99
86) Hexachloroethane	12.536	117	26670	18.180	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	96515	19.691	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	13479	20.239	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	64668	19.488	ug/l	100
90) Hexachlorobutadiene	13.725	225	32338	19.637	ug/l	99
91) Naphthalene	13.774	128	205625	20.780	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	68339	19.994	ug/l	99

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

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