

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
 Data File : VX042557.D
 Acq On : 25 Jul 2024 10:42
 Operator : JC/MD
 Sample : VX0726WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0726WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/26/2024
 Supervised By : Mahesh Dadoda 07/26/2024

Quant Time: Jul 26 01:33:14 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	19422	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	107644	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100380	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	41493	29.825	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.433%		
60) 4-Bromofluorobenzene	11.079	95	45921	29.402	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.000%		
63) Toluene-d8	8.647	98	131184	30.084	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.267%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	23755	20.405	ug/l	98
3) Chloromethane	1.301	50	20529	16.864	ug/l	99
4) Vinyl Chloride	1.374	62	19161	15.845	ug/l	98
5) Bromomethane	1.599	94	11556	19.036	ug/l	100
6) Chloroethane	1.666	64	10225	19.618	ug/l	99
7) Trichlorofluoromethane	1.874	101	29131	19.253	ug/l	100
8) Diethyl Ether	2.136	74	11594	18.271	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	23464	19.912	ug/l	98
10) 1,1-Dichloroethene	2.307	96	21597	19.071	ug/l	95
11) Methyl Iodide	2.447	142	23340	18.229	ug/l	96
12) Methyl Acetate	2.709	43	42896	23.048	ug/l	96
13) Acrolein	2.240	56	16490	70.529	ug/l	100
14) Acrylonitrile	3.069	53	68125	97.469	ug/l	93
15) Acetone	2.392	58	19437	93.491	ug/l	97
16) Carbon Disulfide	2.502	76	35989	16.077	ug/l	100
17) Allyl chloride	2.660	41	32470	18.021	ug/l	93
18) Methylene Chloride	2.782	84	25510	19.725	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	21979	19.215	ug/l	98
20) Diisopropyl ether	3.764	45	73440	19.342	ug/l	94
21) 1,1-Dichloroethane	3.605	63	41719	19.356	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	28133	19.640	ug/l	99
23) tert-Butyl Alcohol	2.989	59	25806	96.881	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	78742	20.833	ug/l	100
25) Chloroform	5.093	83	45549	20.447	ug/l	97
26) Cyclohexane	5.465	56	31500	17.646	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	27613	19.672	ug/l	97
30) 2-Butanone	4.562	43	97883	104.446	ug/l	99
31) 2,2-Dichloropropane	4.471	77	33493	20.756	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	37781	20.838	ug/l	99
33) Carbon Tetrachloride	5.672	117	32599	20.589	ug/l	95
34) Benzene	6.032	78	91966	19.954	ug/l	98
35) Methacrylonitrile	4.922	41	19288	20.856	ug/l	96
36) 1,2-Dichloroethane	6.086	62	32196	21.538	ug/l	98
37) Trichloroethene	7.123	130	25901	20.897	ug/l	98
38) Methylcyclohexane	7.379	83	35113	19.454	ug/l	98
39) 1,2-Dichloropropane	7.428	63	22717	20.050	ug/l	93
40) Dibromomethane	7.580	93	17357	21.224	ug/l	97
41) Bromodichloromethane	7.824	83	31497	20.535	ug/l	96
42) Vinyl Acetate	3.721	43	303063	99.954	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	34831	20.942	ug/l	99
44) Isopropyl Acetate	6.342	43	53080	20.317	ug/l	100
45) 1,4-Dioxane	7.671	88	11847m	404.744	ug/l	
46) Methyl methacrylate	7.696	41	26084	20.486	ug/l	96
47) n-amyl Acetate	10.842	43	43717	18.831	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	30407	19.885	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	35591	20.708	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	25470	21.237	ug/l	96
51) Ethyl methacrylate	9.116	69	37437	19.961	ug/l	96
52) 1,3-Dichloropropane	9.305	76	40864	20.976	ug/l	99
53) Dibromochloromethane	9.519	129	27353	20.754	ug/l	98
54) 1,2-Dibromoethane	9.610	107	27184	21.794	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	89726	98.700	ug/l	99
56) Bromoform	10.799	173	21716	20.446	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	187700	106.100	ug/l	99
59) 2-Hexanone	9.433	43	143048	103.237	ug/l	100
61) Tetrachloroethene	9.275	164	26803	22.010	ug/l	94
62) Toluene	8.714	91	101796	20.284	ug/l	99
64) Chlorobenzene	10.080	112	69712	20.584	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	25913	21.263	ug/l	97
66) Ethyl Benzene	10.195	91	110689	20.239	ug/l	97
67) m/p-Xylenes	10.299	106	88043	40.266	ug/l	99
68) o-Xylene	10.640	106	43936	20.191	ug/l	100
69) Styrene	10.653	104	74596	20.382	ug/l	99
70) Isopropylbenzene	10.964	105	114714	20.676	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	39955	20.927	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	35654m	23.520	ug/l	
73) Bromobenzene	11.195	156	33026	20.829	ug/l	98
74) n-propylbenzene	11.305	91	124000	20.231	ug/l	100
75) 2-Chlorotoluene	11.366	91	79512	20.628	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	95118	20.521	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	10457	18.808	ug/l	94
78) 4-Chlorotoluene	11.457	91	88204	20.542	ug/l	99
79) tert-butylbenzene	11.713	119	100497	20.310	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	96203	20.627	ug/l	97
81) sec-Butylbenzene	11.890	105	117581	20.110	ug/l	99
82) p-Isopropyltoluene	12.006	119	103371	20.403	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	58863	20.668	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	57958	20.488	ug/l	100
85) n-Butylbenzene	12.329	91	76459	19.214	ug/l	100
86) Hexachloroethane	12.536	117	16532	19.189	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	59002	20.497	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8261	21.121	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	38984	20.004	ug/l	99
90) Hexachlorobutadiene	13.725	225	21134	21.852	ug/l	99
91) Naphthalene	13.774	128	116604	20.065	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	40729	20.290	ug/l	97

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

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