

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052824\
 Data File : VX041653.D
 Acq On : 28 May 2024 09:59
 Operator : JC/MD
 Sample : VX0528WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0528WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/29/2024
 Supervised By : Mahesh Dadoda 05/29/2024

Quant Time: May 29 05:37:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	26930	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.756	114	153329	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142092	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64270	30.306	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.033%			
60) 4-Bromofluorobenzene	11.079	95	68861	31.044	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.467%			
63) Toluene-d8	8.646	98	179955	29.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28048	19.913	ug/l	100
3) Chloromethane	1.300	50	28371	18.394	ug/l	97
4) Vinyl Chloride	1.373	62	30709	18.910	ug/l	93
5) Bromomethane	1.599	94	20068	19.429	ug/l	99
6) Chloroethane	1.666	64	17629	21.471	ug/l	96
7) Trichlorofluoromethane	1.867	101	54585	22.144	ug/l	96
8) Diethyl Ether	2.135	74	20734	22.524	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.318	101	31255	21.866	ug/l	98
10) 1,1-Dichloroethene	2.306	96	29076	21.103	ug/l	95
11) Methyl Iodide	2.446	142	36550	22.272	ug/l	99
12) Methyl Acetate	2.702	43	48005	23.134	ug/l	98
13) Acrolein	2.239	56	22863	90.504	ug/l	99
14) Acrylonitrile	3.068	53	93221	102.179	ug/l	98
15) Acetone	2.385	58	35372	144.705	ug/l	99
16) Carbon Disulfide	2.501	76	60547	19.463	ug/l	99
17) Allyl chloride	2.654	41	51546	21.081	ug/l	99
18) Methylene Chloride	2.782	84	34605	21.117	ug/l	96
19) trans-1,2-Dichloroethene	3.080	96	30405	19.245	ug/l	95
20) Diisopropyl ether	3.757	45	104834	20.406	ug/l	95
21) 1,1-Dichloroethane	3.605	63	57634	19.989	ug/l	99
22) cis-1,2-Dichloroethene	4.476	96	37608	19.589	ug/l	99
23) tert-Butyl Alcohol	2.995	59	41263	106.578	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	102074	19.844	ug/l	98
25) Chloroform	5.086	83	61718	20.093	ug/l	97
26) Cyclohexane	5.458	56	46930	19.519	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	39556	19.502	ug/l	99
30) 2-Butanone	4.562	43	146854	109.083	ug/l	100
31) 2,2-Dichloropropane	4.464	77	49394	20.750	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	53830	19.780	ug/l	99
33) Carbon Tetrachloride	5.665	117	47685	20.478	ug/l	99
34) Benzene	6.031	78	125851	19.647	ug/l	98
35) Methacrylonitrile	4.921	41	28330	20.861	ug/l	97
36) 1,2-Dichloroethane	6.080	62	48158	20.147	ug/l	99
37) Trichloroethene	7.122	130	35055	19.642	ug/l	99
38) Methylcyclohexane	7.372	83	49454	19.203	ug/l	98
39) 1,2-Dichloropropane	7.427	63	31156	20.576	ug/l	97
40) Dibromomethane	7.573	93	24150	20.265	ug/l	95
41) Bromodichloromethane	7.817	83	45380	20.283	ug/l	98
42) Vinyl Acetate	3.720	43	465138	99.581	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	51587	19.859	ug/l	99
44) Isopropyl Acetate	6.336	43	79515	20.250	ug/l	99
45) 1,4-Dioxane	7.665	88	15024	339.271	ug/l #	77
46) Methyl methacrylate	7.689	41	39696	20.319	ug/l	98
47) n-amyl Acetate	10.841	43	71482	20.075	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	43860	19.521	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	47961	19.708	ug/l	98
50) 1,1,2-Trichloroethane	9.152	97	34472	20.794	ug/l	93
51) Ethyl methacrylate	9.116	69	52786	19.782	ug/l	96
52) 1,3-Dichloropropane	9.305	76	56231	20.526	ug/l	99
53) Dibromochloromethane	9.518	129	38669	20.500	ug/l	99
54) 1,2-Dibromoethane	9.610	107	35952	20.451	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	148329	113.882	ug/l	100
56) Bromoform	10.798	173	30734	20.337	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	274550	105.749	ug/l	99
59) 2-Hexanone	9.433	43	224063	108.333	ug/l	99
61) Tetrachloroethene	9.268	164	34108	19.620	ug/l	96
62) Toluene	8.713	91	141365	19.994	ug/l	99
64) Chlorobenzene	10.079	112	96477	20.089	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.158	131	35656	20.976	ug/l	98
66) Ethyl Benzene	10.189	91	156463	19.929	ug/l	99
67) m/p-Xylenes	10.299	106	124921	40.690	ug/l	98
68) o-Xylene	10.640	106	62214	20.132	ug/l	99
69) Styrene	10.652	104	104553	20.178	ug/l	100
70) Isopropylbenzene	10.963	105	162584	20.820	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	56344	21.004	ug/l	100
72) 1,2,3-Trichloropropane	11.237	75	46671m	19.292	ug/l	
73) Bromobenzene	11.195	156	46281	20.170	ug/l	99
74) n-propylbenzene	11.304	91	182678	20.746	ug/l	100
75) 2-Chlorotoluene	11.365	91	113785	20.578	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	137311	20.601	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	15856	20.852	ug/l	94
78) 4-Chlorotoluene	11.451	91	128303	20.373	ug/l	99
79) tert-butylbenzene	11.713	119	146386	20.635	ug/l	99
80) 1,2,4-Trimethylbenzene	11.749	105	137802	20.627	ug/l	99
81) sec-Butylbenzene	11.890	105	171955	20.744	ug/l	100
82) p-Isopropyltoluene	12.006	119	149008	20.535	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	83793	20.363	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	83372	20.051	ug/l	99
85) n-Butylbenzene	12.329	91	119090	20.395	ug/l	99
86) Hexachloroethane	12.536	117	24963	20.433	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	84811	20.192	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	12453	21.138	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	57655	20.430	ug/l	99
90) Hexachlorobutadiene	13.725	225	29218	21.221	ug/l	98
91) Naphthalene	13.774	128	176369	20.909	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	59782	20.733	ug/l	99

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

