

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035803.D
 Acq On : 23 May 2023 09:19
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 11:18:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:17:24 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

05/25/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.891	128	35890	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	195066	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	181271	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	88518	26.327	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	87.767%#
60) 4-Bromofluorobenzene	11.079	95	88988	25.194	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.967%
63) Toluene-d8	8.647	98	234107	35.861	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	119.533%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	7789	2.592	ug/l	92
3) Chloromethane	1.294	50	11633	2.965	ug/l	91
4) Vinyl Chloride	1.374	62	10496	2.718	ug/l	98
5) Bromomethane	1.618	94	7956	3.111	ug/l	98
6) Chloroethane	1.691	64	6324	2.507	ug/l	99
7) Trichlorofluoromethane	1.886	101	14981	2.458	ug/l	95
8) Diethyl Ether	2.130	74	7187	3.183	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	7344	2.367	ug/l	98
10) 1,1-Dichloroethene	2.313	96	8591	2.686	ug/l	96
11) Methyl Iodide	2.447	142	8721	2.138	ug/l	87
12) Methyl Acetate	2.709	43	23522	3.200	ug/l	98
13) Acrolein	2.239	56	12226	15.180	ug/l	96
14) Acrylonitrile	3.068	53	31917	16.036	ug/l	99
15) Acetone	2.404	58	11036	20.045	ug/l	95
16) Carbon Disulfide	2.508	76	16239	2.010	ug/l	97
17) Allyl chloride	2.660	41	15892	2.543	ug/l	94
18) Methylene Chloride	2.782	84	12280	3.221	ug/l	93
19) trans-1,2-Dichloroethene	3.087	96	10037	2.834	ug/l	95
20) Diisopropyl ether	3.757	45	39344	3.062	ug/l	93
21) 1,1-Dichloroethane	3.605	63	19769	2.883	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	12399	2.999	ug/l	95
23) tert-Butyl Alcohol	3.093	59	10501m	11.913	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	36456	3.025	ug/l	94
25) Chloroform	5.080	83	21399	3.056	ug/l	97
26) Cyclohexane	5.464	56	13794	2.360	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	13163	3.192	ug/l	76
30) 2-Butanone	4.568	43	46746	19.782	ug/l #	95
31) 2,2-Dichloropropane	4.471	77	13136	3.114	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	15052m	3.111	ug/l	
33) Carbon Tetrachloride	5.678	117	10764	2.708	ug/l	95
34) Benzene	6.031	78	46056	3.797	ug/l	98
35) Methacrylonitrile	4.928	41	9488m	3.680	ug/l	
36) 1,2-Dichloroethane	6.080	62	17706	3.700	ug/l	97
37) Trichloroethene	7.123	130	11294	3.650	ug/l	90
38) Methylcyclohexane	7.373	83	12873	2.936	ug/l	97
39) 1,2-Dichloropropane	7.427	63	12396	3.906	ug/l	94
40) Dibromomethane	7.580	93	7903	3.636	ug/l	97
41) Bromodichloromethane	7.818	83	12597	3.079	ug/l	99
42) Vinyl Acetate	3.721	43	133407	17.724	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.708	43	18408	4.063	ug/l	#	77
44) Isopropyl Acetate	6.336	43	27697	3.615	ug/l		97
45) 1,4-Dioxane	7.775	88	5068m	66.755	ug/l		
46) Methyl methacrylate	7.690	41	13213	3.532	ug/l		94
47) n-amyl Acetate	10.841	43	21801	3.275	ug/l		97
48) t-1,3-Dichloropropene	8.976	75	13184	2.948	ug/l		97
49) cis-1,3-Dichloropropene	8.360	75	15111	3.074	ug/l		96
50) 1,1,2-Trichloroethane	9.153	97	11857	3.880	ug/l		96
51) Ethyl methacrylate	9.116	69	16640	3.396	ug/l		91
52) 1,3-Dichloropropane	9.305	76	20758	3.859	ug/l		99
53) Dibromochloromethane	9.519	129	8771	2.928	ug/l		98
54) 1,2-Dibromoethane	9.604	107	11924	3.657	ug/l		98
55) 2-Chloroethyl vinyl ether	8.238	63	42650	16.448	ug/l		99
56) Bromoform	10.793	173	5291	2.569	ug/l	#	98
58) 4-Methyl-2-Pentanone	8.574	43	88695	22.085	ug/l		100
59) 2-Hexanone	9.427	43	66642	21.932	ug/l		98
61) Tetrachloroethene	9.269	164	8474	3.666	ug/l		90
62) Toluene	8.714	91	47512	4.181	ug/l		98
64) Chlorobenzene	10.079	112	30398	4.314	ug/l		98
65) 1,1,1,2-Tetrachloroethane	10.159	131	9525	3.807	ug/l		100
66) Ethyl Benzene	10.189	91	51002	4.036	ug/l		100
67) m/p-Xylenes	10.299	106	39308	8.133	ug/l		98
68) o-Xylene	10.640	106	19655	4.109	ug/l		97
69) Styrene	10.652	104	30724	3.887	ug/l		98
70) Isopropylbenzene	10.963	105	47032	3.815	ug/l		99
71) 1,1,2,2-Tetrachloroethane	11.213	83	18261	4.451	ug/l		99
72) 1,2,3-Trichloropropane	11.238	75	15287m	4.161	ug/l		
73) Bromobenzene	11.201	156	12349	4.152	ug/l		96
74) n-propylbenzene	11.305	91	54468	3.781	ug/l		99
75) 2-Chlorotoluene	11.360	91	36335	4.041	ug/l		99
76) 1,3,5-Trimethylbenzene	11.451	105	40675	3.908	ug/l		99
77) t-1,4-Dichloro-2-butene	11.018	75	3299	2.895	ug/l		79
78) 4-Chlorotoluene	11.451	91	40773	3.943	ug/l		98
79) tert-butylbenzene	11.713	119	38050	3.832	ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	40692	3.916	ug/l		100
81) sec-Butylbenzene	11.890	105	46122	3.826	ug/l		99
82) p-Isopropyltoluene	12.006	119	38383	3.767	ug/l		98
83) 1,3-Dichlorobenzene	11.969	146	23310	4.145	ug/l		99
84) 1,4-Dichlorobenzene	12.036	146	23503	4.151	ug/l		99
85) n-Butylbenzene	12.329	91	31888	3.637	ug/l		99
86) Hexachloroethane	12.536	117	5392	3.238	ug/l		88
87) 1,2-Dichlorobenzene	12.335	146	23337	4.230	ug/l		100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2735	3.078	ug/l		91
89) 1,2,4-Trichlorobenzene	13.585	180	12030	3.649	ug/l		94
90) Hexachlorobutadiene	13.725	225	4160	3.374	ug/l		98
91) Naphthalene	13.774	128	41251	3.562	ug/l		99
92) 1,2,3-Trichlorobenzene	13.957	180	12714	3.875	ug/l		94

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

