

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035809.D
 Acq On : 23 May 2023 12:41
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX052323

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/25/2023
 Supervised By : Mahesh Dadoda 05/25/2023

Quant Time: May 24 05:41:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	37133	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	202808	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	185716	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	88832	28.791	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.967%		
60) 4-Bromofluorobenzene	11.079	95	90958	29.188	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.300%		
63) Toluene-d8	8.647	98	250356	30.493	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.633%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	39970	21.049	ug/l	99
3) Chloromethane	1.294	50	46087	19.784	ug/l	100
4) Vinyl Chloride	1.374	62	42866	19.581	ug/l	97
5) Bromomethane	1.617	94	27044	18.363	ug/l	97
6) Chloroethane	1.691	64	26294	19.051	ug/l	100
7) Trichlorofluoromethane	1.886	101	68005	20.491	ug/l	97
8) Diethyl Ether	2.130	74	26799	19.422	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	38899	21.785	ug/l	98
10) 1,1-Dichloroethene	2.319	96	36789	19.764	ug/l	98
11) Methyl Iodide	2.453	142	40138	17.850	ug/l	98
12) Methyl Acetate	2.709	43	104535	19.875	ug/l	100
13) Acrolein	2.239	56	38629	92.909	ug/l	100
14) Acrylonitrile	3.068	53	129368	98.116	ug/l	99
15) Acetone	2.404	58	36220	91.840	ug/l	96
16) Carbon Disulfide	2.508	76	76770	19.004	ug/l	99
17) Allyl chloride	2.660	41	72093	19.198	ug/l	99
18) Methylene Chloride	2.788	84	46602	19.225	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	41415	19.737	ug/l	93
20) Diisopropyl ether	3.751	45	160367	19.782	ug/l	92
21) 1,1-Dichloroethane	3.605	63	82111	19.324	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	51081	19.673	ug/l	95
23) tert-Butyl Alcohol	3.044	59	52586m	109.259	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	147732	19.692	ug/l	96
25) Chloroform	5.086	83	82940	19.021	ug/l	97
26) Cyclohexane	5.464	56	67869	21.119	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	60350	21.369	ug/l	98
30) 2-Butanone	4.568	43	187044	101.174	ug/l	100
31) 2,2-Dichloropropane	4.471	77	57826	19.058	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	65956	19.999	ug/l	99
33) Carbon Tetrachloride	5.672	117	52531	20.171	ug/l	93
34) Benzene	6.037	78	182112	20.440	ug/l	97
35) Methacrylonitrile	4.916	41	39118	19.829	ug/l	97
36) 1,2-Dichloroethane	6.080	62	70781	20.413	ug/l	99
37) Trichloroethene	7.123	130	45427	20.284	ug/l	96
38) Methylcyclohexane	7.379	83	71026	22.932	ug/l	97
39) 1,2-Dichloropropane	7.427	63	47461	19.791	ug/l	98
40) Dibromomethane	7.580	93	33235	20.491	ug/l	97
41) Bromodichloromethane	7.818	83	56518	19.275	ug/l	99
42) Vinyl Acetate	3.721	43	554127	102.041	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	71252	20.209	ug/l	100
44) Isopropyl Acetate	6.336	43	116705	20.307	ug/l	97
45) 1,4-Dioxane	7.744	88	25081m	459.472	ug/l	
46) Methyl methacrylate	7.690	41	56066	20.190	ug/l	96
47) n-amyl Acetate	10.841	43	96434	19.977	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	61008	18.807	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	68180	19.045	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	46602	20.083	ug/l	97
51) Ethyl methacrylate	9.116	69	72007	20.130	ug/l	98
52) 1,3-Dichloropropane	9.305	76	82664	20.442	ug/l	98
53) Dibromochloromethane	9.518	129	39913	18.756	ug/l	99
54) 1,2-Dibromoethane	9.610	107	48016	19.917	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	203390	107.146	ug/l	99
56) Bromoform	10.799	173	25280	18.325	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	367347	101.835	ug/l	100
59) 2-Hexanone	9.427	43	276303	101.795	ug/l	100
61) Tetrachloroethene	9.275	164	37184	20.790	ug/l	96
62) Toluene	8.714	91	191482	20.021	ug/l	99
64) Chlorobenzene	10.079	112	118223	19.518	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	40661	19.202	ug/l	98
66) Ethyl Benzene	10.189	91	214107	20.017	ug/l	100
67) m/p-Xylenes	10.299	106	163469	40.377	ug/l	97
68) o-Xylene	10.640	106	80840	19.962	ug/l	98
69) Styrene	10.652	104	132200	19.780	ug/l	99
70) Isopropylbenzene	10.963	105	209678	20.285	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	73141	19.977	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	66764m	20.938	ug/l	
73) Bromobenzene	11.195	156	48892	19.469	ug/l	96
74) n-propylbenzene	11.305	91	251520	20.414	ug/l	100
75) 2-Chlorotoluene	11.366	91	151553	20.025	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	177566	20.226	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16188	16.829	ug/l	92
78) 4-Chlorotoluene	11.451	91	168352	19.526	ug/l	97
79) tert-butylbenzene	11.713	119	171422	20.226	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	176365	19.990	ug/l	99
81) sec-Butylbenzene	11.890	105	222052	20.752	ug/l	99
82) p-Isopropyltoluene	12.006	119	184001	20.670	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	94529	19.889	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	96564	20.242	ug/l	98
85) n-Butylbenzene	12.329	91	162001	20.456	ug/l	99
86) Hexachloroethane	12.536	117	25357	18.088	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	95432	20.493	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	12862	18.381	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	57653	20.658	ug/l	98
90) Hexachlorobutadiene	13.725	225	22365	21.739	ug/l	97
91) Naphthalene	13.774	128	197126	20.411	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	56906	20.422	ug/l	98

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

