

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034779.D
 Acq On : 28 Mar 2023 09:06
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 15:16:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	28416	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	202544	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	218840	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	82707	30.292	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.967%			
60) 4-Bromofluorobenzene	11.079	95	127178	29.084	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.933%			
63) Toluene-d8	8.647	98	223669	30.075	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	56714	21.043	ug/l	99
3) Chloromethane	1.294	50	72595	20.773	ug/l	98
4) Vinyl Chloride	1.374	62	71476	20.730	ug/l	99
5) Bromomethane	1.618	94	48050	21.187	ug/l	98
6) Chloroethane	1.691	64	46099	20.545	ug/l	99
7) Trichlorofluoromethane	1.892	101	115868	21.097	ug/l	100
8) Diethyl Ether	2.130	74	40086	20.274	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	59442	21.333	ug/l	99
10) 1,1-Dichloroethene	2.319	96	56421	20.003	ug/l	99
11) Methyl Iodide	2.453	142	70331	19.581	ug/l	96
12) Methyl Acetate	2.703	43	122714	19.646	ug/l	97
13) Acrolein	2.239	56	75241	103.876	ug/l	98
14) Acrylonitrile	3.062	53	166409	96.750	ug/l	99
15) Acetone	2.392	58	53149	113.821	ug/l	95
16) Carbon Disulfide	2.514	76	142006	19.683	ug/l	100
17) Allyl chloride	2.666	41	110366	20.221	ug/l	98
18) Methylene Chloride	2.788	84	65766	19.794	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	63082	20.439	ug/l	99
20) Diisopropyl ether	3.751	45	226338	20.242	ug/l	91
21) 1,1-Dichloroethane	3.605	63	117859	19.712	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	72074	20.050	ug/l	100
23) tert-Butyl Alcohol	3.008	59	76954m	99.440	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	205537	19.610	ug/l	98
25) Chloroform	5.086	83	120009	19.734	ug/l	97
26) Cyclohexane	5.471	56	109121	20.827	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	92118	19.774	ug/l	98
30) 2-Butanone	4.556	43	264002	101.619	ug/l	99
31) 2,2-Dichloropropane	4.471	77	97311	20.598	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	103467	18.933	ug/l	99
33) Carbon Tetrachloride	5.678	117	86560	19.191	ug/l	99
34) Benzene	6.037	78	264613	19.546	ug/l	98
35) Methacrylonitrile	4.916	41	51396	18.075	ug/l	98
36) 1,2-Dichloroethane	6.086	62	101647	19.150	ug/l	99
37) Trichloroethene	7.123	130	68425	19.860	ug/l	99
38) Methylcyclohexane	7.379	83	105646	20.757	ug/l	98
39) 1,2-Dichloropropane	7.427	63	68287	19.406	ug/l	96
40) Dibromomethane	7.580	93	46621	19.287	ug/l	99
41) Bromodichloromethane	7.818	83	86456	18.988	ug/l #	97
42) Vinyl Acetate	3.721	43	818183	96.535	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	96894	19.230	ug/l	99
44) Isopropyl Acetate	6.336	43	158204	18.548	ug/l	99
45) 1,4-Dioxane	7.714	88	33860	400.690	ug/l #	91
46) Methyl methacrylate	7.690	41	77329	18.607	ug/l	98
47) n-amyl Acetate	10.842	43	135222	18.235	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	91926	18.530	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	105174	19.297	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	64271	19.085	ug/l	99
51) Ethyl methacrylate	9.116	69	101080	18.493	ug/l	98
52) 1,3-Dichloropropane	9.305	76	115379	19.395	ug/l	100
53) Dibromochloromethane	9.519	129	61217	18.375	ug/l	98
54) 1,2-Dibromoethane	9.610	107	66815	18.548	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	297132	103.301	ug/l	100
56) Bromoform	10.799	173	39825	17.337	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	482361	96.136	ug/l	100
59) 2-Hexanone	9.427	43	383947	101.633	ug/l	100
61) Tetrachloroethene	9.275	164	58858	19.960	ug/l	97
62) Toluene	8.714	91	282527	19.744	ug/l	100
64) Chlorobenzene	10.079	112	173872	19.731	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	59572	18.911	ug/l	97
66) Ethyl Benzene	10.195	91	316781	19.876	ug/l	99
67) m/p-Xylenes	10.299	106	242231	39.945	ug/l	99
68) o-Xylene	10.640	106	119565	19.938	ug/l	99
69) Styrene	10.653	104	191630	19.383	ug/l	99
70) Isopropylbenzene	10.963	105	307171	19.791	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	97959	19.201	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	81667m	17.585	ug/l	
73) Bromobenzene	11.195	156	73255	19.653	ug/l	99
74) n-propylbenzene	11.305	91	364759	20.188	ug/l	100
75) 2-Chlorotoluene	11.360	91	222509	19.754	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	259277	19.845	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	24840	17.417	ug/l	93
78) 4-Chlorotoluene	11.451	91	253032	19.595	ug/l	100
79) tert-butylbenzene	11.713	119	243931	19.558	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	258953	19.945	ug/l	99
81) sec-Butylbenzene	11.890	105	301983	19.982	ug/l	100
82) p-Isopropyltoluene	12.006	119	254355	19.945	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	138342	19.654	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	137737	19.485	ug/l	100
85) n-Butylbenzene	12.329	91	218464	19.877	ug/l	98
86) Hexachloroethane	12.536	117	38569	18.465	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	135400	19.658	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	19629	17.607	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	82669	20.008	ug/l	99
90) Hexachlorobutadiene	13.725	225	32911	20.654	ug/l	95
91) Naphthalene	13.774	128	282546	19.354	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	81782	19.799	ug/l	99

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

