

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021822\
 Data File : VX027093.D
 Acq On : 17 Feb 2022 21:58
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/18/2022
 Supervised By : Mahesh Dadoda 02/21/2022

Quant Time: Feb 18 04:53:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 18 04:52:41 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	14491	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	78881	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	69171	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	31205	28.144	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.800%	
60) 4-Bromofluorobenzene	11.085	95	33890	29.784	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.267%	
63) Toluene-d8	8.653	98	94277	30.343	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.133%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	17642	20.344	ug/l	100
3) Chloromethane	1.294	50	16672	17.649	ug/l	100
4) Vinyl Chloride	1.374	62	16107	17.046	ug/l	100
5) Bromomethane	1.605	94	9808	18.127	ug/l	100
6) Chloroethane	1.691	64	9938	16.811	ug/l	100
7) Trichlorofluoromethane	1.892	101	25129	16.576	ug/l	100
8) Diethyl Ether	2.136	74	8953	16.527	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	17581	19.941	ug/l	100
10) 1,1-Dichloroethene	2.325	96	17372	20.278	ug/l	100
11) Methyl Iodide	2.459	142	21596	18.203	ug/l	100
12) Methyl Acetate	2.709	43	25645	20.198	ug/l	100
13) Acrolein	2.239	56	17276	116.556	ug/l	100
14) Acrylonitrile	3.068	53	57095	101.625	ug/l	100
15) Acetone	2.380	58	15578	96.151	ug/l	100
16) Carbon Disulfide	2.514	76	44293	20.685	ug/l	100
17) Allyl chloride	2.672	41	30350	19.363	ug/l	100
18) Methylene Chloride	2.794	84	19511	19.568	ug/l	100
19) trans-1,2-Dichloroethene	3.099	96	18591	20.249	ug/l	100
20) Diisopropyl ether	3.769	45	62227	19.855	ug/l	100
21) 1,1-Dichloroethane	3.617	63	34066	19.886	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	21532	20.221	ug/l	100
23) tert-Butyl Alcohol	2.959	59	21792	88.508	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	60253	20.124	ug/l	100
25) Chloroform	5.099	83	35090	19.949	ug/l	100
26) Cyclohexane	5.483	56	31778	20.355	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	25943	20.613	ug/l	100
30) 2-Butanone	4.562	43	80180	98.445	ug/l	100
31) 2,2-Dichloropropane	4.483	77	21879	16.328	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	30302	20.144	ug/l	100
33) Carbon Tetrachloride	5.690	117	26281	20.059	ug/l	100
34) Benzene	6.043	78	76570	20.433	ug/l	100
35) Methacrylonitrile	4.928	41	16143	19.362	ug/l	100
36) 1,2-Dichloroethane	6.092	62	27618	19.477	ug/l	100
37) Trichloroethene	7.129	130	22335	21.498	ug/l	100
38) Methylcyclohexane	7.385	83	31925	20.097	ug/l	100
39) 1,2-Dichloropropane	7.433	63	19288	19.785	ug/l	100
40) Dibromomethane	7.586	93	13704	19.814	ug/l	100
41) Bromodichloromethane	7.830	83	25615	20.134	ug/l	100
42) Vinyl Acetate	3.727	43	267169	99.149	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021822\
 Data File : VX027093.D
 Acq On : 17 Feb 2022 21:58
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/18/2022
 Supervised By : Mahesh Dadoda 02/21/2022

Quant Time: Feb 18 04:53:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 18 04:52:41 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	30670	20.006	ug/l	100
44) Isopropyl Acetate	6.348	43	45961	18.919	ug/l	100
45) 1,4-Dioxane	7.665	88	9754	390.749	ug/l	100
46) Methyl methacrylate	7.696	41	22705	19.302	ug/l	100
47) n-amyl Acetate	10.847	43	36375	17.798	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	24527	17.098	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	28682	18.609	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	19800	19.760	ug/l	100
51) Ethyl methacrylate	9.116	69	30512	19.259	ug/l	100
52) 1,3-Dichloropropane	9.311	76	33099	20.098	ug/l	100
53) Dibromochloromethane	9.525	129	19256	19.059	ug/l	100
54) 1,2-Dibromoethane	9.610	107	20139	19.141	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	65301	85.498	ug/l	100
56) Bromoform	10.799	173	12994	18.134	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	152171	101.852	ug/l	100
59) 2-Hexanone	9.433	43	115107	100.212	ug/l	100
61) Tetrachloroethene	9.275	164	23800	24.240	ug/l	100
62) Toluene	8.720	91	82348	20.790	ug/l	100
64) Chlorobenzene	10.079	112	49894	20.056	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	18065	19.600	ug/l	100
66) Ethyl Benzene	10.195	91	90287	20.544	ug/l	100
67) m/p-Xylenes	10.305	106	69972	41.216	ug/l	100
68) o-Xylene	10.646	106	34300	20.491	ug/l	100
69) Styrene	10.659	104	56302	20.372	ug/l	100
70) Isopropylbenzene	10.963	105	89562	20.338	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	26443	19.229	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	26015m	20.044	ug/l	
73) Bromobenzene	11.201	156	21803	20.373	ug/l	100
74) n-propylbenzene	11.305	91	100355	19.790	ug/l	100
75) 2-Chlorotoluene	11.366	91	62717	20.543	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	74404	20.391	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	6897	15.432	ug/l	100
78) 4-Chlorotoluene	11.457	91	70163	20.345	ug/l	100
79) tert-butylbenzene	11.719	119	68835	19.569	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	74253	20.565	ug/l	100
81) sec-Butylbenzene	11.890	105	90374	19.955	ug/l	100
82) p-Isopropyltoluene	12.012	119	75482	20.212	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	39699	20.402	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	40020	20.691	ug/l	100
85) n-Butylbenzene	12.335	91	61099	18.736	ug/l	100
86) Hexachloroethane	12.542	117	11251	18.640	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	39630	21.021	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6140	19.646	ug/l	100
89) 1,2,4-Trichlorobenzene	13.591	180	23584	20.164	ug/l	100
90) Hexachlorobutadiene	13.725	225	9887	19.248	ug/l	100
91) Naphthalene	13.780	128	84721	20.977	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	23885	20.350	ug/l	100

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

