

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074623.D
 Acq On : 27 Sep 2022 12:28
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 07:19:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:17:56 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.492	128	141513	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	860761	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.616	117	784368	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	403746	30.258	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.867%			
60) 4-Bromofluorobenzene	12.604	95	411672	27.020	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.067%			
63) Toluene-d8	10.310	98	1313317	29.684	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.999	85	171443	20.615	ug/l	100
3) Chloromethane	2.216	50	250563	20.516	ug/l	100
4) Vinyl Chloride	2.357	62	321221	20.544	ug/l	100
5) Bromomethane	2.734	94	229930	22.813	ug/l	100
6) Chloroethane	2.899	64	225476	20.402	ug/l	100
7) Trichlorofluoromethane	3.240	101	300152	20.669	ug/l	100
8) Diethyl Ether	3.681	74	159302	20.798	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.046	101	186527	20.312	ug/l	100
10) 1,1-Dichloroethene	4.022	96	198892	20.779	ug/l	100
11) Methyl Iodide	4.257	142	248352	20.199	ug/l	100
12) Methyl Acetate	4.669	43	420330	20.451	ug/l	100
13) Acrolein	3.893	56	160623	95.987	ug/l	100
14) Acrylonitrile	5.363	53	848558	101.885	ug/l	100
15) Acetone	4.122	58	224247	104.581	ug/l	100
16) Carbon Disulfide	4.357	76	539812	20.009	ug/l	100
17) Allyl chloride	4.657	41	400463	20.407	ug/l	100
18) Methylene Chloride	4.898	84	255672	20.892	ug/l	100
19) trans-1,2-Dichloroethene	5.404	96	214019	19.698	ug/l	100
20) Diisopropyl ether	6.304	45	855563	19.981	ug/l	100
21) 1,1-Dichloroethane	6.198	63	442904	20.481	ug/l	100
22) cis-1,2-Dichloroethene	7.145	96	264203	20.036	ug/l	100
23) tert-Butyl Alcohol	5.169	59	358886	104.567	ug/l	100
24) Methyl tert-Butyl Ether	5.422	73	799413	20.097	ug/l	100
25) Chloroform	7.657	83	429802	20.049	ug/l	100
26) Cyclohexane	7.934	56	401163	20.630	ug/l #	100
29) 1,1-Dichloropropene	8.069	75	305361	18.994	ug/l	100
30) 2-Butanone	7.163	43	1221764	99.606	ug/l	100
31) 2,2-Dichloropropane	7.151	77	378159	19.629	ug/l	100
32) 1,1,1-Trichloroethane	7.857	97	370924	19.530	ug/l	100
33) Carbon Tetrachloride	8.045	117	305619	19.240	ug/l	100
34) Benzene	8.304	78	1037387	19.491	ug/l	100
35) Methacrylonitrile	7.475	41	226716m	19.428	ug/l	
36) 1,2-Dichloroethane	8.381	62	329394	18.953	ug/l	100
37) Trichloroethene	9.075	130	224099	19.829	ug/l	100
38) Methylcyclohexane	9.322	83	398979	19.174	ug/l	100
39) 1,2-Dichloropropane	9.351	63	281926	20.007	ug/l	100
40) Dibromomethane	9.445	93	176017	19.359	ug/l	100
41) Bromodichloromethane	9.628	83	348833	19.300	ug/l	100
42) Vinyl Acetate	6.245	43	3900534	97.859	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074623.D
 Acq On : 27 Sep 2022 12:28
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 07:19:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:17:56 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.239	43	474383	19.968	ug/l	100
44) Isopropyl Acetate	8.416	43	763970	19.803	ug/l	100
45) 1,4-Dioxane	9.433	88	139914	424.998	ug/l	100
46) Methyl methacrylate	9.428	41	314445	19.570	ug/l	100
47) n-amyl Acetate	12.269	43	650255	18.416	ug/l	100
48) t-1,3-Dichloropropene	10.592	75	406190	18.512	ug/l	100
49) cis-1,3-Dichloropropene	10.063	75	437511	19.162	ug/l	100
50) 1,1,2-Trichloroethane	10.775	97	263097	19.903	ug/l	100
51) Ethyl methacrylate	10.639	69	463575	18.703	ug/l	100
52) 1,3-Dichloropropane	10.922	76	454875	19.415	ug/l	100
53) Dibromochloromethane	11.110	129	259753	18.593	ug/l	100
54) 1,2-Dibromoethane	11.216	107	261674	19.135	ug/l	100
55) 2-Chloroethyl vinyl ether	9.910	63	899702	93.533	ug/l	100
56) Bromoform	12.333	173	183050	16.763	ug/l	100
58) 4-Methyl-2-Pentanone	10.204	43	2462395	101.160	ug/l	100
59) 2-Hexanone	10.963	43	1888888	100.189	ug/l	100
61) Tetrachloroethene	10.851	164	165607	18.927	ug/l	100
62) Toluene	10.375	91	1090800	18.992	ug/l	100
64) Chlorobenzene	11.645	112	642680	19.528	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.716	131	240231	19.427	ug/l	100
66) Ethyl Benzene	11.722	91	1193229	19.564	ug/l	100
67) m/p-Xylenes	11.827	106	885500	36.160	ug/l	100
68) o-Xylene	12.157	106	452029	18.130	ug/l	100
69) Styrene	12.169	104	731352	17.436	ug/l	100
70) Isopropylbenzene	12.457	105	1136347	17.864	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.704	83	444414	19.682	ug/l	100
72) 1,2,3-Trichloropropane	12.757	75	315912m	11.575	ug/l	
73) Bromobenzene	12.733	156	239271	18.721	ug/l	100
74) n-propylbenzene	12.798	91	1303926	18.192	ug/l	100
75) 2-Chlorotoluene	12.880	91	786233	18.083	ug/l	100
76) 1,3,5-Trimethylbenzene	12.939	105	928092	17.304	ug/l	100
77) t-1,4-Dichloro-2-butene	12.504	75	161014	18.186	ug/l	100
78) 4-Chlorotoluene	12.980	91	739790	16.978	ug/l	100
79) tert-butylbenzene	13.198	119	812719	17.319	ug/l	100
80) 1,2,4-Trimethylbenzene	13.245	105	900235	16.994	ug/l	100
81) sec-Butylbenzene	13.374	105	1159215	17.459	ug/l	100
82) p-Isopropyltoluene	13.492	119	919797	16.831	ug/l	100
83) 1,3-Dichlorobenzene	13.492	146	433729	16.513	ug/l	100
84) 1,4-Dichlorobenzene	13.568	146	426209	16.315	ug/l	100
85) n-Butylbenzene	13.821	91	765094	16.410	ug/l	100
86) Hexachloroethane	14.086	117	201503	19.143	ug/l	100
87) 1,2-Dichlorobenzene	13.863	146	446675	16.625	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.480	75	88849	18.788	ug/l	100
89) 1,2,4-Trichlorobenzene	15.127	180	200227	17.868	ug/l	100
90) Hexachlorobutadiene	15.233	225	92753	18.786	ug/l	100
91) Naphthalene	15.362	128	850946	18.100	ug/l	100
92) 1,2,3-Trichlorobenzene	15.551	180	204498	18.203	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
Data File : VN074623.D
Acq On : 27 Sep 2022 12:28
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

Reviewed By : John Carlone 09/28/2022
Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 07:19:16 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Sep 28 07:17:56 2022
Response via : Initial Calibration

