

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068457.D
 Acq On : 13 Sep 2021 14:55
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/14/2021
 Supervised By : Mahesh Dadoda 09/14/2021

Quant Time: Sep 14 04:11:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:08:29 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	114913	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	582932	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	556371	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	188946	27.842	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.800%		
60) 4-Bromofluorobenzene	12.734	95	239551	30.208	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.700%		
63) Toluene-d8	10.443	98	713925	29.496	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.333%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.070	85	539039	102.987	ug/l	99
3) Chloromethane	2.301	50	486737	96.134	ug/l	100
4) Vinyl Chloride	2.440	62	751750	93.681	ug/l	100
5) Bromomethane	2.829	94	700056	87.828	ug/l	99
6) Chloroethane	3.001	64	521533	91.057	ug/l	100
7) Trichlorofluoromethane	3.368	101	945382	95.574	ug/l	98
8) Diethyl Ether	3.824	74	310231	99.436	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.210	101	534090	94.793	ug/l	98
10) 1,1-Dichloroethene	4.183	96	505770	96.584	ug/l	97
11) Methyl Iodide	4.422	142	897170	110.341	ug/l	99
12) Methyl Acetate	4.854	43	525392	96.392	ug/l	97
13) Acrolein	4.044	56	200103	456.797	ug/l	98
14) Acrylonitrile	5.554	53	1182274	500.884	ug/l	99
15) Acetone	4.285	58	305258	474.556	ug/l	98
16) Carbon Disulfide	4.535	76	1306515	96.676	ug/l	99
17) Allyl chloride	4.840	41	653149	99.890	ug/l	98
18) Methylene Chloride	5.095	84	580422	92.592	ug/l	96
19) trans-1,2-Dichloroethene	5.597	96	586901	99.895	ug/l	98
20) Diisopropyl ether	6.495	45	1415742	97.612	ug/l	95
21) 1,1-Dichloroethane	6.388	63	923306	95.784	ug/l	97
22) cis-1,2-Dichloroethene	7.327	96	700841	99.387	ug/l	95
23) tert-Butyl Alcohol	5.366	59	451112	472.936	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	1792173	100.508	ug/l	98
25) Chloroform	7.820	83	1106145	95.884	ug/l	100
26) Cyclohexane	8.096	56	803336	98.574	ug/l #	97
29) 1,1-Dichloropropene	8.222	75	785836	100.615	ug/l	97
30) 2-Butanone	7.332	43	1480110	496.519	ug/l #	95
31) 2,2-Dichloropropane	7.327	77	886887	98.674	ug/l	96
32) 1,1,1-Trichloroethane	8.016	97	1068538	100.746	ug/l	98
33) Carbon Tetrachloride	8.209	117	1014551	102.335	ug/l	100
34) Benzene	8.461	78	2378938	99.883	ug/l #	95
35) Methacrylonitrile	7.640	41	280232	97.474	ug/l	96
36) 1,2-Dichloroethane	8.531	62	771676	96.231	ug/l	98
37) Trichloroethene	9.217	130	776833	101.478	ug/l	93
38) Methylcyclohexane	9.462	83	1040630	103.655	ug/l	97
39) 1,2-Dichloropropane	9.491	63	555587	99.115	ug/l	97
40) Dibromomethane	9.580	93	461637	100.235	ug/l	91
41) Bromodichloromethane	9.765	83	902255	101.370	ug/l	96
42) Vinyl Acetate	6.434	43	5611891	523.985	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068457.D
 Acq On : 13 Sep 2021 14:55
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/14/2021
 Supervised By : Mahesh Dadoda 09/14/2021

Quant Time: Sep 14 04:11:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:08:29 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	622137	96.195	ug/l #	78
44) Isopropyl Acetate	8.560	43	1070504	99.657	ug/l	98
45) 1,4-Dioxane	9.569	88	224070	2058.929	ug/l	95
46) Methyl methacrylate	9.561	41	454937	104.504	ug/l	96
47) n-amyl Acetate	12.390	43	832896	110.209	ug/l	97
48) t-1,3-Dichloropropene	10.719	75	945600	104.927	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	995953	102.829	ug/l	96
50) 1,1,2-Trichloroethane	10.902	97	669470	100.587	ug/l	97
51) Ethyl methacrylate	10.762	69	912078	106.731	ug/l	99
52) 1,3-Dichloropropane	11.047	76	997132	100.744	ug/l	99
53) Dibromochloromethane	11.240	129	867785	106.032	ug/l	100
54) 1,2-Dibromoethane	11.347	107	738025	103.394	ug/l	99
55) 2-Chloroethyl vinyl ether	10.044	63	905498	625.900	ug/l	99
56) Bromoform	12.460	173	738243	112.302	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	3232676	493.581	ug/l	96
59) 2-Hexanone	11.087	43	2264457	498.872	ug/l	96
61) Tetrachloroethene	10.980	164	804246	100.534	ug/l	96
62) Toluene	10.507	91	2882033	98.421	ug/l	99
64) Chlorobenzene	11.773	112	1950662	101.002	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	806878	102.370	ug/l	100
66) Ethyl Benzene	11.846	91	3250560	102.140	ug/l	99
67) m/p-Xylenes	11.956	106	2684905	204.671	ug/l	98
68) o-Xylene	12.283	106	1340087	103.467	ug/l	96
69) Styrene	12.296	104	2162788	105.309	ug/l	98
70) Isopropylbenzene	12.581	105	3420195	104.005	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	894655	99.947	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	746972m	103.795	ug/l	
73) Bromobenzene	12.862	156	991067	106.164	ug/l	91
74) n-propylbenzene	12.924	91	3668743	103.449	ug/l	98
75) 2-Chlorotoluene	13.010	91	2171037	101.719	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	2846468	103.674	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	268096	109.028	ug/l	97
78) 4-Chlorotoluene	13.106	91	2110996	103.061	ug/l	98
79) tert-butylbenzene	13.326	119	2657571	105.359	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	2790978m	86.991	ug/l	
81) sec-Butylbenzene	13.503	105	3515452	105.438	ug/l	98
82) p-Isopropyltoluene	13.619	119	3103479	108.521	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	1739616	107.208	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	1676840	107.874	ug/l	98
85) n-Butylbenzene	13.943	91	2243659	110.300	ug/l	98
86) Hexachloroethane	14.211	117	561027	106.799	ug/l	85
87) 1,2-Dichlorobenzene	13.989	146	1670868	107.156	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	159753	105.543	ug/l	83
89) 1,2,4-Trichlorobenzene	15.265	180	902393	119.779	ug/l	98
90) Hexachlorobutadiene	15.373	225	545465	114.477	ug/l	99
91) Naphthalene	15.507	128	1919794	118.125	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	831352	117.174	ug/l	99

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

