

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062322\
 Data File : VN073067.D
 Acq On : 24 Jun 2022 00:46
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 04:21:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:19:33 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.587	128	42553	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	244575	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	222293	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	122707	26.164	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	87.200%#		
60) 4-Bromofluorobenzene	12.669	95	129003	28.615	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.367%		
63) Toluene-d8	10.375	98	362701	29.682	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.933%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	179800	55.018	ug/l	99
3) Chloromethane	2.269	50	163230	47.578	ug/l	96
4) Vinyl Chloride	2.405	62	148250	47.905	ug/l	98
5) Bromomethane	2.799	94	58867	38.280	ug/l	92
6) Chloroethane	2.963	64	89431	44.410	ug/l	95
7) Trichlorofluoromethane	3.316	101	268295	48.378	ug/l	96
8) Diethyl Ether	3.763	74	110728	50.711	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.140	101	146472	49.601	ug/l #	69
10) 1,1-Dichloroethene	4.116	96	151023	53.019	ug/l	96
11) Methyl Iodide	4.352	142	152789	55.817	ug/l	92
12) Methyl Acetate	4.775	43	300584	51.100	ug/l	93
13) Acrolein	3.981	56	158006	292.286	ug/l	97
14) Acrylonitrile	5.475	53	594787	252.857	ug/l	98
15) Acetone	4.222	58	164160	254.893	ug/l	86
16) Carbon Disulfide	4.457	76	401151	55.393	ug/l	97
17) Allyl chloride	4.763	41	284520	47.935	ug/l	85
18) Methylene Chloride	5.016	84	176053	50.177	ug/l	94
19) trans-1,2-Dichloroethene	5.516	96	158179	52.118	ug/l	93
20) Diisopropyl ether	6.410	45	610152	51.433	ug/l	97
21) 1,1-Dichloroethane	6.304	63	316027	48.127	ug/l	98
22) cis-1,2-Dichloroethene	7.251	96	189857	50.465	ug/l	95
23) tert-Butyl Alcohol	5.287	59	231101	219.047	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	562648	46.279	ug/l	98
25) Chloroform	7.745	83	316525	47.276	ug/l	100
26) Cyclohexane	8.022	56	274478	49.719	ug/l #	94
29) 1,1-Dichloropropene	8.151	75	227497	49.208	ug/l	97
30) 2-Butanone	7.257	43	860979	253.394	ug/l	94
31) 2,2-Dichloropropane	7.251	77	105181	19.056	ug/l	93
32) 1,1,1-Trichloroethane	7.940	97	280145	46.981	ug/l	97
33) Carbon Tetrachloride	8.134	117	236438	46.077	ug/l	97
34) Benzene	8.392	78	708244	51.046	ug/l	99
35) Methacrylonitrile	7.563	41	149634	45.233	ug/l	89
36) 1,2-Dichloroethane	8.463	62	258491	45.509	ug/l	98
37) Trichloroethene	9.145	130	174040	52.002	ug/l	97
38) Methylcyclohexane	9.392	83	268018	48.408	ug/l	91
39) 1,2-Dichloropropane	9.428	63	184111	49.006	ug/l	99
40) Dibromomethane	9.510	93	123350	47.864	ug/l	94
41) Bromodichloromethane	9.692	83	249226	46.174	ug/l	94
42) Vinyl Acetate	6.351	43	2738946	251.422	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062322\
 Data File : VN073067.D
 Acq On : 24 Jun 2022 00:46
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 04:21:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:19:33 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.340	43	345497	52.824	ug/l	99
44) Isopropyl Acetate	8.492	43	508315	48.199	ug/l	98
45) 1,4-Dioxane	9.504	88	86730	988.693	ug/l	92
46) Methyl methacrylate	9.492	41	231571	48.870	ug/l	79
47) n-amyl Acetate	12.327	43	414549	50.531	ug/l	97
48) t-1,3-Dichloropropene	10.657	75	236746	39.469	ug/l	99
49) cis-1,3-Dichloropropene	10.128	75	255094	41.410	ug/l	96
50) 1,1,2-Trichloroethane	10.839	97	178071	48.921	ug/l	98
51) Ethyl methacrylate	10.698	69	308288	47.244	ug/l	90
52) 1,3-Dichloropropane	10.980	76	306460	47.817	ug/l	100
53) Dibromochloromethane	11.175	129	186453	47.207	ug/l	100
54) 1,2-Dibromoethane	11.280	107	189314	49.464	ug/l	98
55) 2-Chloroethyl vinyl ether	9.981	63	642498	242.519	ug/l	100
56) Bromoform	12.392	173	137698	49.541	ug/l #	100
58) 4-Methyl-2-Pentanone	10.269	43	1653567	248.645	ug/l	97
59) 2-Hexanone	11.022	43	1270334	251.171	ug/l	98
61) Tetrachloroethene	10.910	164	149293	53.998	ug/l	89
62) Toluene	10.439	91	762117	50.544	ug/l	97
64) Chlorobenzene	11.704	112	455070	49.768	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	174299	49.158	ug/l	98
66) Ethyl Benzene	11.780	91	849207	49.677	ug/l	99
67) m/p-Xylenes	11.886	106	634686	100.838	ug/l	99
68) o-Xylene	12.216	106	321054	50.208	ug/l	100
69) Styrene	12.227	104	521422	50.908	ug/l	98
70) Isopropylbenzene	12.516	105	820750	49.243	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.763	83	274203	48.580	ug/l	99
72) 1,2,3-Trichloropropane	12.816	75	220939m	46.676	ug/l	
73) Bromobenzene	12.798	156	191101	55.016	ug/l	95
74) n-propylbenzene	12.857	91	937695	49.202	ug/l	100
75) 2-Chlorotoluene	12.945	91	577449	48.677	ug/l	97
76) 1,3,5-Trimethylbenzene	12.998	105	676142	49.297	ug/l	98
77) t-1,4-Dichloro-2-butene	12.563	75	70123	36.139	ug/l	97
78) 4-Chlorotoluene	13.039	91	561276	50.026	ug/l	96
79) tert-butylbenzene	13.257	119	616201	50.486	ug/l	97
80) 1,2,4-Trimethylbenzene	13.304	105	671779m	41.861	ug/l	
81) sec-Butylbenzene	13.433	105	824836	49.844	ug/l	99
82) p-Isopropyltoluene	13.551	119	672387	50.520	ug/l	99
83) 1,3-Dichlorobenzene	13.551	146	338974	55.099	ug/l	98
84) 1,4-Dichlorobenzene	13.627	146	335340	55.983	ug/l	98
85) n-Butylbenzene	13.880	91	539870	48.579	ug/l	96
86) Hexachloroethane	14.145	117	129159	45.559	ug/l	94
87) 1,2-Dichlorobenzene	13.921	146	354065	57.687	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.533	75	69553	48.967	ug/l	94
89) 1,2,4-Trichlorobenzene	15.192	180	188845	60.907	ug/l	95
90) Hexachlorobutadiene	15.298	225	72126	53.545	ug/l	98
91) Naphthalene	15.427	128	725434	58.431	ug/l	99
92) 1,2,3-Trichlorobenzene	15.621	180	189651	59.784	ug/l	99

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

