

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
 Data File : VN069656.D
 Acq On : 26 Nov 2021 14:01
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 29 00:17:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	185139	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1059067	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	961490	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	512901	31.943	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.467%			
60) 4-Bromofluorobenzene	12.731	95	457143	29.711	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.033%			
63) Toluene-d8	10.440	98	1359519	30.623	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	303797	22.206	ug/l	99
3) Chloromethane	2.306	50	327674	22.972	ug/l	95
4) Vinyl Chloride	2.448	62	312753	21.624	ug/l	99
5) Bromomethane	2.861	94	178584	19.279	ug/l	97
6) Chloroethane	3.025	64	188161	20.620	ug/l	99
7) Trichlorofluoromethane	3.379	101	410549	19.366	ug/l	95
8) Diethyl Ether	3.824	74	152861	22.843	ug/l	80
9) 1,1,2-Trichlorotrifluo...	4.210	101	222601m	22.692	ug/l	
10) 1,1-Dichloroethene	4.181	96	202760	21.915	ug/l	87
11) Methyl Iodide	4.422	142	284091	22.038	ug/l	96
12) Methyl Acetate	4.857	43	618278	23.204	ug/l #	88
13) Acrolein	4.044	56	84654	115.554	ug/l	95
14) Acrylonitrile	5.557	53	827816	113.876	ug/l	99
15) Acetone	4.291	58	235237	97.115	ug/l	80
16) Carbon Disulfide	4.529	76	474145	20.502	ug/l	99
17) Allyl chloride	4.846	41	450002m	22.884	ug/l	
18) Methylene Chloride	5.098	84	261192	22.160	ug/l	89
19) trans-1,2-Dichloroethene	5.599	96	221401	21.807	ug/l	85
20) Diisopropyl ether	6.498	45	945417	22.437	ug/l #	95
21) 1,1-Dichloroethane	6.388	63	482839	22.587	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	272653	21.652	ug/l	91
23) tert-Butyl Alcohol	5.380	59	256405	101.348	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	824594	22.239	ug/l	95
25) Chloroform	7.817	83	489068	22.127	ug/l	100
26) Cyclohexane	8.096	56	448827	22.115	ug/l #	85
29) 1,1-Dichloropropene	8.222	75	350754	21.696	ug/l	96
30) 2-Butanone	7.337	43	1258196	107.521	ug/l	92
31) 2,2-Dichloropropane	7.327	77	360651	21.102	ug/l	97
32) 1,1,1-Trichloroethane	8.013	97	412511	21.857	ug/l	96
33) Carbon Tetrachloride	8.206	117	337245	21.635	ug/l	98
34) Benzene	8.461	78	1065461	21.672	ug/l #	95
35) Methacrylonitrile	7.638	41	238281	22.202	ug/l	89
36) 1,2-Dichloroethane	8.531	62	434604	22.930	ug/l	99
37) Trichloroethene	9.217	130	249652	21.019	ug/l	90
38) Methylcyclohexane	9.459	83	418330	20.915	ug/l	89
39) 1,2-Dichloropropane	9.491	63	287157	22.054	ug/l	99
40) Dibromomethane	9.577	93	188418	21.607	ug/l	96
41) Bromodichloromethane	9.762	83	354114	21.635	ug/l	95
42) Vinyl Acetate	6.436	43	3652149m	110.438	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
 Data File : VN069656.D
 Acq On : 26 Nov 2021 14:01
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 29 00:17:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	493706	22.766	ug/l	94
44) Isopropyl Acetate	8.563	43	743578	21.993	ug/l	96
45) 1,4-Dioxane	9.569	88	110637	403.127	ug/l	91
46) Methyl methacrylate	9.561	41	342145	21.973	ug/l	84
47) n-amyl Acetate	12.390	43	461911	17.792	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	356727	20.308	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	402627	21.064	ug/l	94
50) 1,1,2-Trichloroethane	10.899	97	267105	21.570	ug/l	98
51) Ethyl methacrylate	10.762	69	428168	20.623	ug/l	91
52) 1,3-Dichloropropane	11.047	76	470104	21.978	ug/l	98
53) Dibromochloromethane	11.240	129	238614	20.165	ug/l	100
54) 1,2-Dibromoethane	11.347	107	267732	20.876	ug/l	96
55) 2-Chloroethyl vinyl ether	10.043	63	1014985	214.923	ug/l	96
56) Bromoform	12.457	173	166270	19.594	ug/l #	98
58) 4-Methyl-2-Pentanone	10.330	43	2470718	117.065	ug/l	94
59) 2-Hexanone	11.087	43	1751526	109.101	ug/l	95
61) Tetrachloroethene	10.977	164	238434	23.105	ug/l	95
62) Toluene	10.505	91	1147131	21.711	ug/l	98
64) Chlorobenzene	11.771	112	679928	21.449	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.840	131	243448	21.814	ug/l	99
66) Ethyl Benzene	11.846	91	1253133	21.428	ug/l	100
67) m/p-Xylenes	11.953	106	919783	42.345	ug/l	95
68) o-Xylene	12.280	106	456205	20.976	ug/l	94
69) Styrene	12.294	104	717849	20.359	ug/l	97
70) Isopropylbenzene	12.581	105	1193606	20.985	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	400948	21.363	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	374004m	20.456	ug/l	
73) Bromobenzene	12.862	156	272704	20.799	ug/l	92
74) n-propylbenzene	12.921	91	1321795	20.235	ug/l	99
75) 2-Chlorotoluene	13.007	91	826059	20.773	ug/l	95
76) 1,3,5-Trimethylbenzene	13.058	105	966001	20.692	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	89138	18.061	ug/l	78
78) 4-Chlorotoluene	13.106	91	763453	20.048	ug/l	95
79) tert-butylbenzene	13.324	119	840274	20.461	ug/l	100
80) 1,2,4-Trimethylbenzene	13.369	105	937428m	20.585	ug/l	
81) sec-Butylbenzene	13.503	105	1141355	19.864	ug/l	100
82) p-Isopropyltoluene	13.616	119	912255	19.898	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	450876	20.113	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	432918	19.907	ug/l	100
85) n-Butylbenzene	13.943	91	696015	18.190	ug/l	99
86) Hexachloroethane	14.211	117	146397	19.295	ug/l	89
87) 1,2-Dichlorobenzene	13.989	146	444123	20.528	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	66851	20.347	ug/l	98
89) 1,2,4-Trichlorobenzene	15.263	180	185523	17.884	ug/l	97
90) Hexachlorobutadiene	15.370	225	120654	21.508	ug/l	98
91) Naphthalene	15.509	128	487712	16.321	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	186774	18.315	ug/l	98

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

