

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076618.D
 Acq On : 10 Feb 2023 18:45
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/13/2023
 Supervised By : Mahesh Dadoda 02/13/2023

Quant Time: Feb 11 00:59:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.822	128	29016	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	198434	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	220664	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.581	65	84603	24.739	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	82.467%#		
60) 4-Bromofluorobenzene	12.851	95	130296	26.155	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	87.167%		
63) Toluene-d8	10.569	98	233170	28.778	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.140	85	73548	18.313	ug/l	95
3) Chloromethane	2.375	50	56032	11.603	ug/l	97
4) Vinyl Chloride	2.528	62	49264	11.684	ug/l	99
5) Bromomethane	2.963	94	22341	10.554	ug/l	90
6) Chloroethane	3.122	64	27337	11.324	ug/l	91
7) Trichlorofluoromethane	3.510	101	119507	16.692	ug/l	86
8) Diethyl Ether	3.981	74	41005	18.057	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.393	101	63288	18.363	ug/l	85
10) 1,1-Dichloroethene	4.352	96	59007	18.219	ug/l	87
11) Methyl Iodide	4.604	142	81117	17.239	ug/l	97
12) Methyl Acetate	5.040	43	114071	16.784	ug/l	94
13) Acrolein	4.193	56	67721	77.794	ug/l	97
14) Acrylonitrile	5.734	53	175597	88.187	ug/l	97
15) Acetone	4.440	58	46256	80.455	ug/l	75
16) Carbon Disulfide	4.728	76	165653	18.611	ug/l	98
17) Allyl chloride	5.034	41	109593m	17.553	ug/l	
18) Methylene Chloride	5.287	84	72506	18.919	ug/l #	89
19) trans-1,2-Dichloroethene	5.798	96	63347	19.040	ug/l	94
20) Diisopropyl ether	6.681	45	230773	16.192	ug/l	94
21) 1,1-Dichloroethane	6.581	63	128525	16.537	ug/l	98
22) cis-1,2-Dichloroethene	7.492	96	74330	18.645	ug/l	96
23) tert-Butyl Alcohol	5.534	59	55516	83.087	ug/l #	100
24) Methyl tert-Butyl Ether	5.816	73	214930	18.427	ug/l	98
25) Chloroform	7.975	83	131600	17.112	ug/l	96
26) Cyclohexane	8.269	56	111186	16.122	ug/l #	99
29) 1,1-Dichloropropene	8.381	75	94844	18.465	ug/l	97
30) 2-Butanone	7.492	43	242794	87.573	ug/l	100
31) 2,2-Dichloropropane	7.498	77	91155	17.093	ug/l	99
32) 1,1,1-Trichloroethane	8.175	97	114802	18.015	ug/l	96
33) Carbon Tetrachloride	8.369	117	101255	18.418	ug/l	96
34) Benzene	8.616	78	289712m	18.357	ug/l	
35) Methacrylonitrile	7.787	41	58696	18.413	ug/l	88
36) 1,2-Dichloroethane	8.675	62	107332	17.735	ug/l	96
37) Trichloroethene	9.357	130	66991	20.732	ug/l	88
38) Methylcyclohexane	9.604	83	111643	19.638	ug/l	96
39) 1,2-Dichloropropane	9.628	63	77089	20.468	ug/l #	88
40) Dibromomethane	9.716	93	49459	19.962	ug/l	93
41) Bromodichloromethane	9.892	83	100888	19.366	ug/l #	88
42) Vinyl Acetate	6.616	43	766559m	85.003	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076618.D
 Acq On : 10 Feb 2023 18:45
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/13/2023
 Supervised By : Mahesh Dadoda 02/13/2023

Quant Time: Feb 11 00:59:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.575	43	104127	18.419	ug/l	100
44) Isopropyl Acetate	8.698	43	160703	17.281	ug/l	98
45) 1,4-Dioxane	9.698	88	30288	399.543	ug/l	94
46) Methyl methacrylate	9.686	41	79660	17.767	ug/l	87
47) n-amyl Acetate	12.498	43	137880	17.443	ug/l #	88
48) t-1,3-Dichloropropene	10.839	75	97586	18.608	ug/l	95
49) cis-1,3-Dichloropropene	10.316	75	110132	18.998	ug/l	95
50) 1,1,2-Trichloroethane	11.016	97	69267	20.585	ug/l	96
51) Ethyl methacrylate	10.881	69	103999	19.464	ug/l	95
52) 1,3-Dichloropropane	11.169	76	123620	19.708	ug/l	98
53) Dibromochloromethane	11.363	129	74503	21.308	ug/l	96
54) 1,2-Dibromoethane	11.469	107	68631	20.156	ug/l	99
55) 2-Chloroethyl vinyl ether	10.163	63	236671	96.975	ug/l	98
56) Bromoform	12.580	173	46497	20.648	ug/l	98
58) 4-Methyl-2-Pentanone	10.451	43	520314	84.349	ug/l	99
59) 2-Hexanone	11.198	43	382627	85.311	ug/l	97
61) Tetrachloroethene	11.110	164	54939	19.477	ug/l	91
62) Toluene	10.633	91	305897	18.698	ug/l	100
64) Chlorobenzene	11.898	112	182418	19.248	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.963	131	68064	18.944	ug/l	98
66) Ethyl Benzene	11.969	91	330735	18.440	ug/l	99
67) m/p-Xylenes	12.075	106	256454	38.110	ug/l	96
68) o-Xylene	12.404	106	129090	19.472	ug/l	98
69) Styrene	12.416	104	208790	19.841	ug/l	95
70) Isopropylbenzene	12.698	105	328201	18.473	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.945	83	107346	17.330	ug/l	98
72) 1,2,3-Trichloropropane	12.992	75	103403m	18.278	ug/l	
73) Bromobenzene	12.980	156	73868	17.522	ug/l	94
74) n-propylbenzene	13.039	91	387054	16.986	ug/l	99
75) 2-Chlorotoluene	13.127	91	238592	16.646	ug/l	97
76) 1,3,5-Trimethylbenzene	13.174	105	284944	17.175	ug/l	98
77) t-1,4-Dichloro-2-butene	12.745	75	28324	16.599	ug/l	80
78) 4-Chlorotoluene	13.222	91	234032	16.238	ug/l	96
79) tert-butylbenzene	13.445	119	247291	17.561	ug/l	95
80) 1,2,4-Trimethylbenzene	13.486	105	283683	17.339	ug/l	95
81) sec-Butylbenzene	13.622	105	343536	17.422	ug/l	100
82) p-Isopropyltoluene	13.733	119	279056	17.613	ug/l	97
83) 1,3-Dichlorobenzene	13.739	146	134818	17.290	ug/l	95
84) 1,4-Dichlorobenzene	13.816	146	137197	17.636	ug/l	98
85) n-Butylbenzene	14.057	91	223480	15.190	ug/l	97
86) Hexachloroethane	14.339	117	49497	16.090	ug/l	90
87) 1,2-Dichlorobenzene	14.110	146	139493	16.297	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.721	75	22966	18.190	ug/l	86
89) 1,2,4-Trichlorobenzene	15.398	180	69715	19.529	ug/l	99
90) Hexachlorobutadiene	15.504	225	33970	19.698	ug/l	97
91) Naphthalene	15.645	128	237516	19.501	ug/l	99
92) 1,2,3-Trichlorobenzene	15.839	180	71060	19.944	ug/l	99

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

