

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041922\
 Data File : VN072044.D
 Acq On : 19 Apr 2022 12:59
 Operator : JC\MD
 Sample : PB144164TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB144164TB

Quant Time: Apr 20 01:24:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

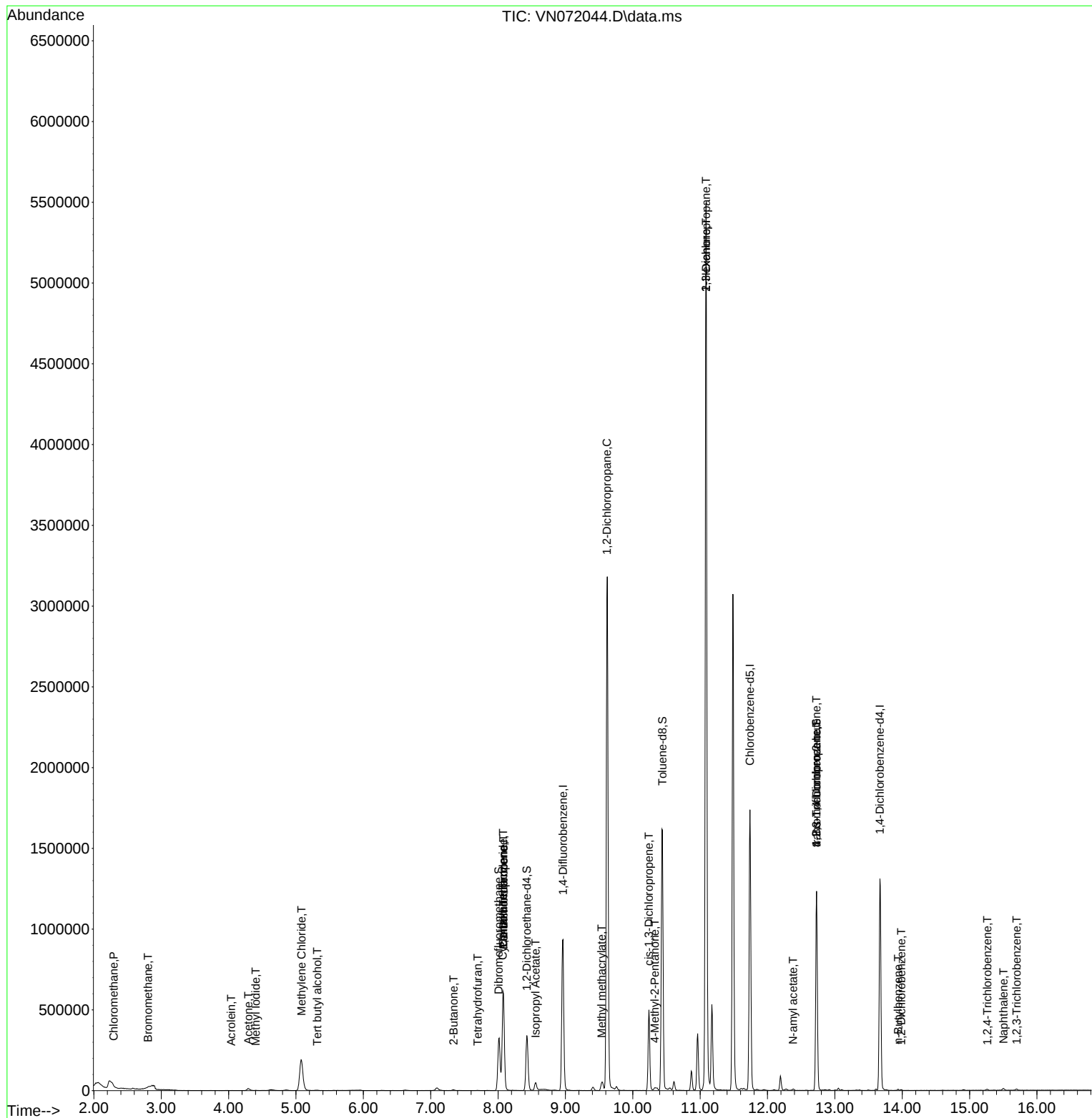
Internal Standards						
1) Pentafluorobenzene	8.081	168	521412	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	885596	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1083112	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	402259	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.428	65	281450	47.282	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.560%		
35) Dibromofluoromethane	8.010	113	245506	47.111	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.220%		
50) Toluene-d8	10.439	98	1209738	56.747	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	113.500%		
62) 4-Bromofluorobenzene	12.727	95	434731	63.054	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	126.100%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	2092	0.398	ug/l	95
5) Bromomethane	2.805	94	1177	0.314	ug/l #	65
10) Methyl Iodide	4.404	142	2076	0.328	ug/l #	82
11) Tert butyl alcohol	5.316	59	3160	3.271	ug/l #	72
13) Acrolein	4.040	56	377	0.320	ug/l #	35
16) Acetone	4.293	43	17474	6.869	ug/l #	85
18) Methyl Acetate	4.857	43	8343	Below Cal		93
20) Methylene Chloride	5.081	84	178806	33.348	ug/l	96
25) 2-Butanone	7.340	43	7854	2.142	ug/l	94
29) Tetrahydrofuran	7.698	42	1163	0.490	ug/l #	66
31) Cyclohexane	8.069	56	8266	1.021	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	33004	4.535	ug/l #	49
38) Carbon Tetrachloride	8.075	117	45499	6.379	ug/l #	16
43) Isopropyl Acetate	8.557	43	56369	4.255	ug/l #	91
45) 1,2-Dichloropropane	9.616	63	4232	0.737	ug/l #	44
48) Methyl methacrylate	9.539	41	13155	2.393	ug/l #	10
49) 1,4-Dioxane	9.569	88	1035	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.328	43	11016	1.446	ug/l #	86
54) cis-1,3-Dichloropropene	10.239	75	100690	11.328	ug/l #	58
57) 1,3-Dichloropropane	11.086	76	64773	6.478	ug/l #	43
59) 2-Hexanone	11.086	43	758237	141.385	ug/l #	49
74) N-amyl acetate	12.380	43	6231	0.642	ug/l #	83
76) 1,2,3-Trichloropropane	12.727	75	204556	21.951	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	204556	68.026	ug/l #	10
89) n-Butylbenzene	13.939	91	4819	0.256	ug/l	97
91) 1,2-Dichlorobenzene	13.986	146	2669	0.201	ug/l	95
93) 1,2,4-Trichlorobenzene	15.263	180	3713	2.642	ug/l	91
95) Naphthalene	15.504	128	14102	4.514	ug/l	100
96) 1,2,3-Trichlorobenzene	15.698	180	4332	3.079	ug/l	94

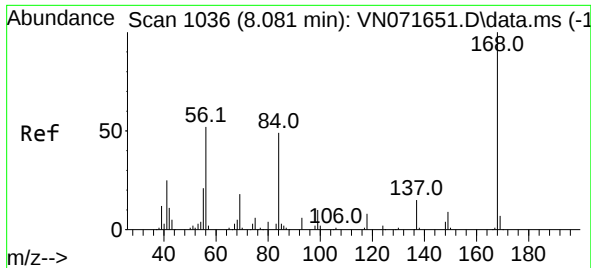
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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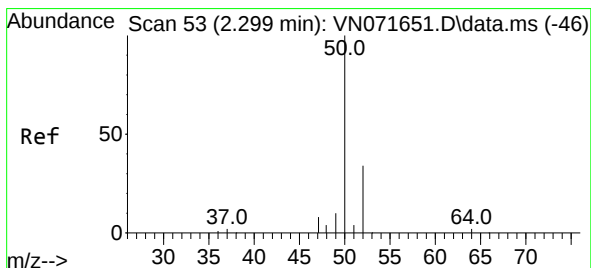
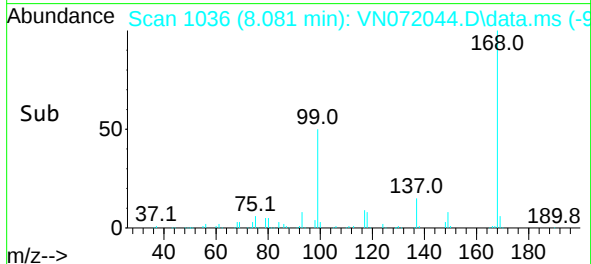
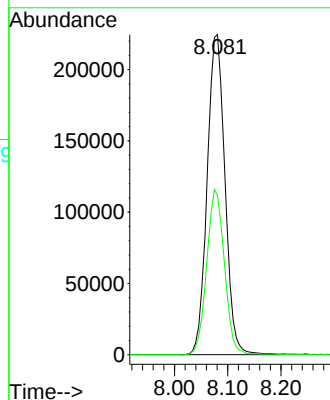
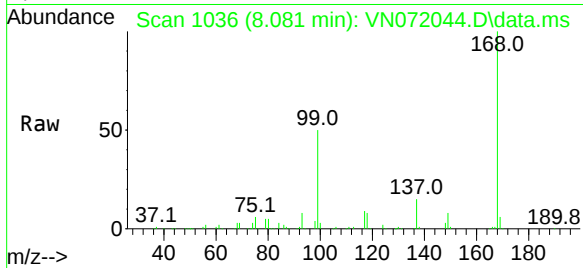




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

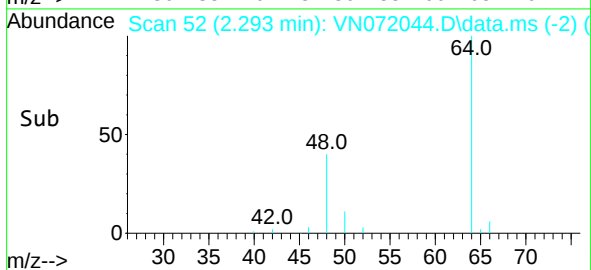
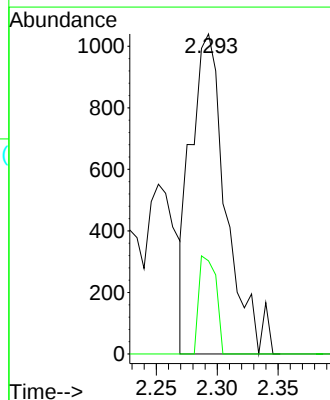
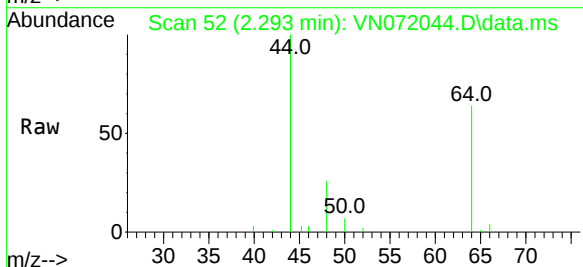
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

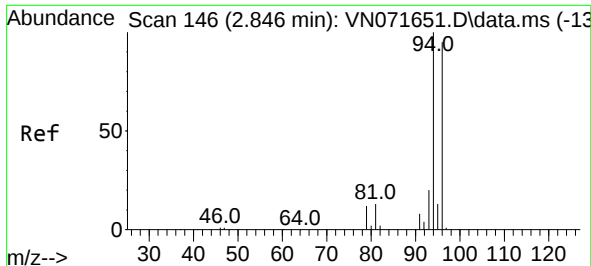
Tgt Ion:168 Resp: 521412
Ion Ratio Lower Upper
168 100
99 49.7 42.3 63.5



#3
Chloromethane
Concen: 0.398 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 50 Resp: 2092
Ion Ratio Lower Upper
50 100
52 29.1 25.7 38.5

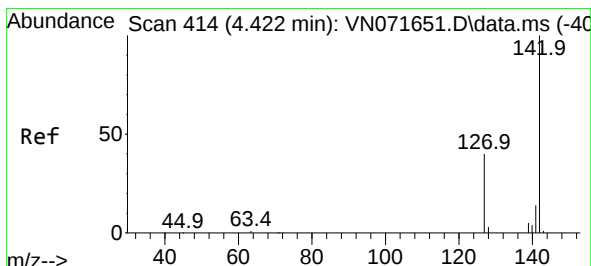
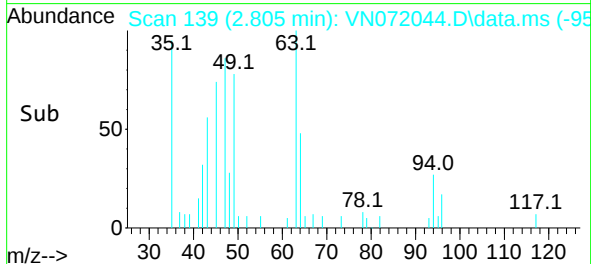
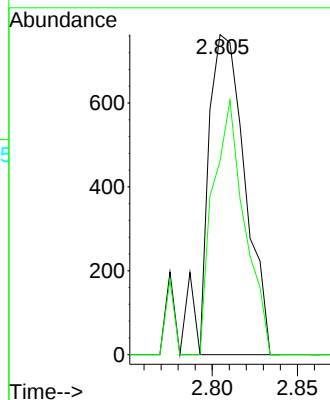
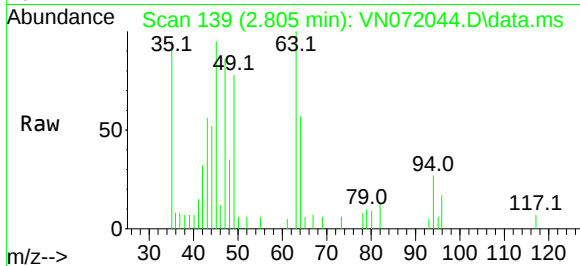




#5
Bromomethane
Concen: 0.314 ug/l
RT: 2.805 min Scan# 1177
Delta R.T. -0.041 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

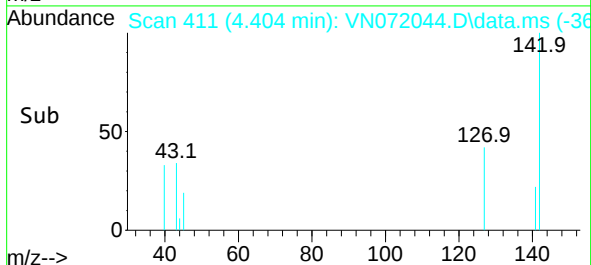
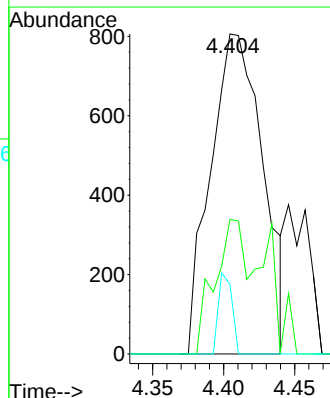
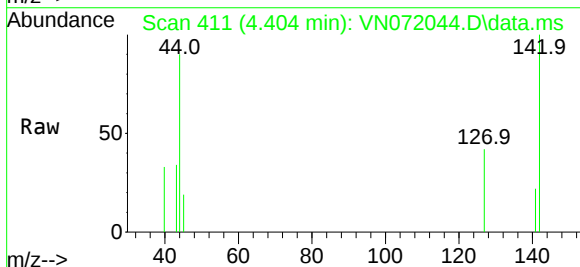
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

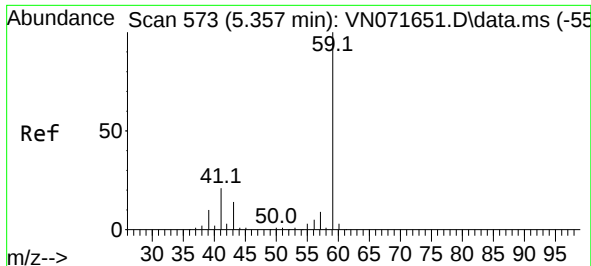
Tgt Ion: 94 Resp: 1177
Ion Ratio Lower Upper
94 100
96 60.6 76.0 114.0#



#10
Methyl Iodide
Concen: 0.328 ug/l
RT: 4.404 min Scan# 411
Delta R.T. -0.018 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 142 Resp: 2076
Ion Ratio Lower Upper
142 100
127 27.9 31.3 46.9#
141 6.5 11.2 16.8#

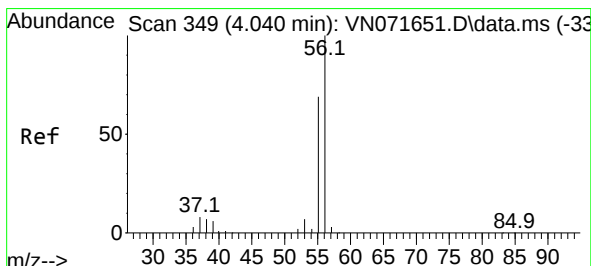
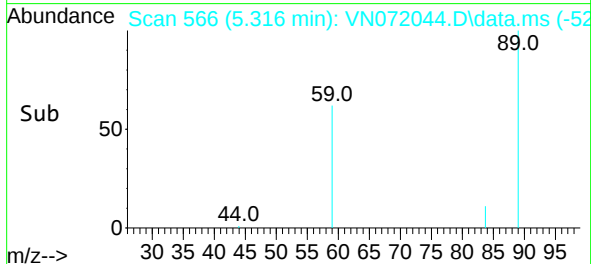
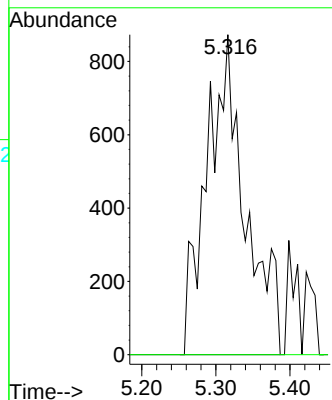
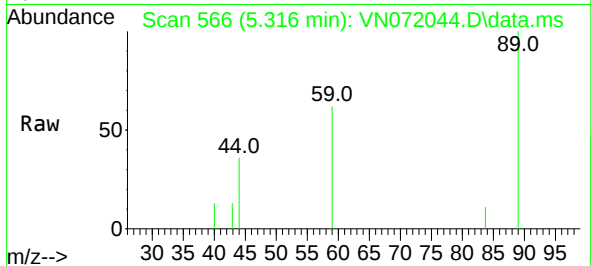




#11
Tert butyl alcohol
Concen: 3.271 ug/l
RT: 5.316 min Scan# 50
Delta R.T. -0.041 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

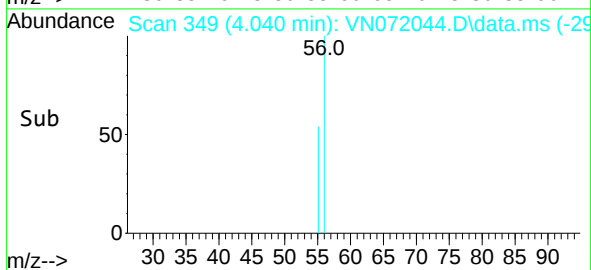
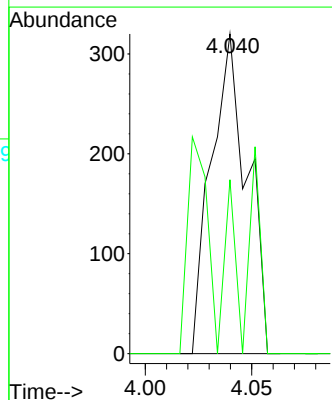
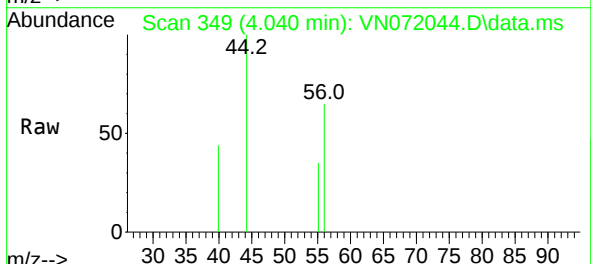
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

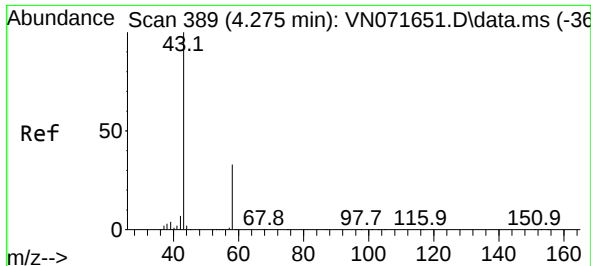
Tgt Ion: 59 Resp: 3160
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.320 ug/l
RT: 4.040 min Scan# 349
Delta R.T. -0.000 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 56 Resp: 377
Ion Ratio Lower Upper
56 100
55 16.2 54.8 82.2#





#16

Acetone

Concen: 6.869 ug/l

RT: 4.293 min Scan# 391

Delta R.T. 0.018 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Instrument :

MSVOA_N

ClientSampleId :

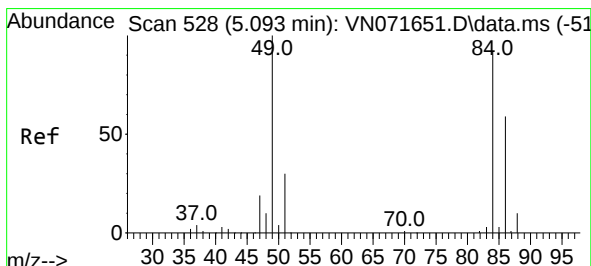
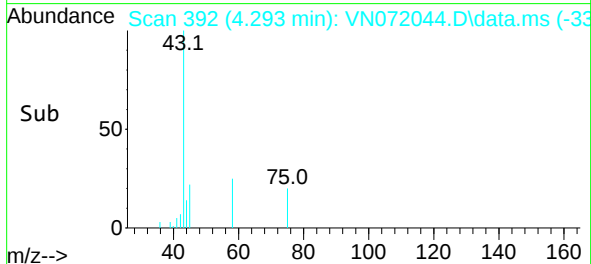
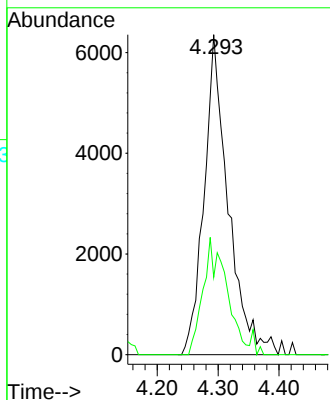
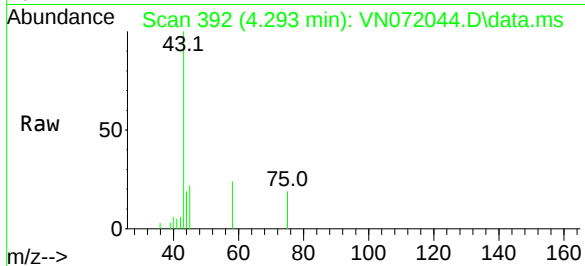
PB144164TB

Tgt Ion: 43 Resp: 17474

Ion Ratio Lower Upper

43 100

58 24.2 26.0 39.0#



#20

Methylene Chloride

Concen: 33.348 ug/l

RT: 5.081 min Scan# 526

Delta R.T. -0.012 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Tgt Ion: 84 Resp: 178806

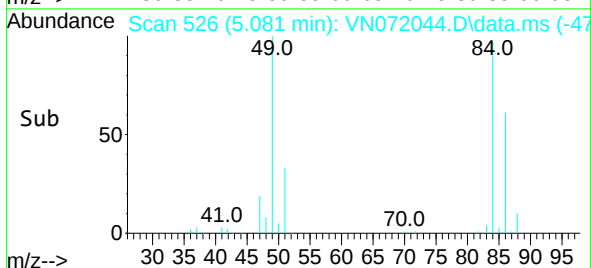
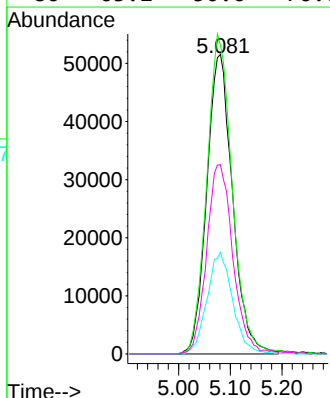
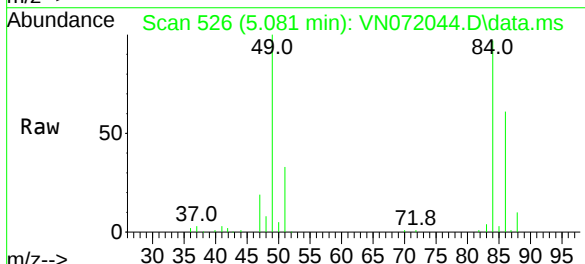
Ion Ratio Lower Upper

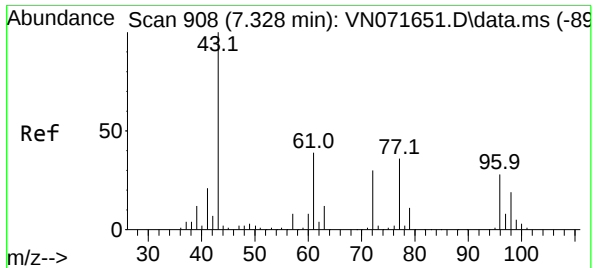
84 100

49 103.2 88.3 132.5

51 33.9 28.2 42.2

86 63.2 50.6 76.0





#25

2-Butanone

Concen: 2.142 ug/l

RT: 7.340 min Scan# 910

Delta R.T. 0.012 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Instrument :

MSVOA_N

ClientSampleId :

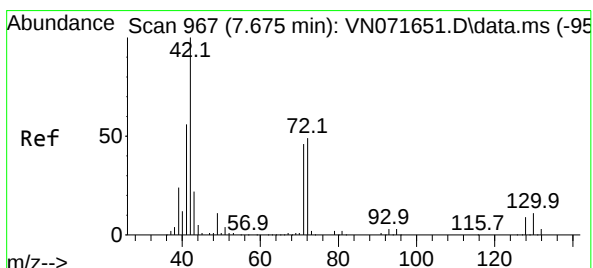
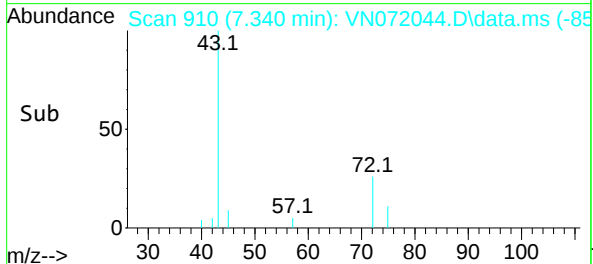
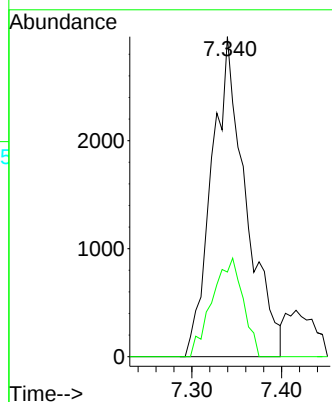
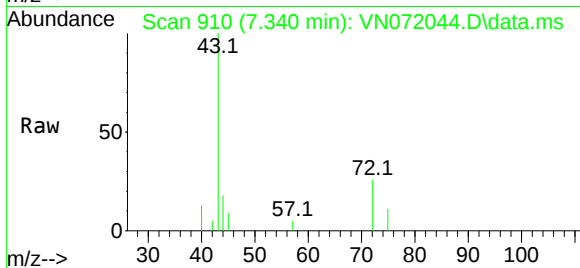
PB144164TB

Tgt Ion: 43 Resp: 7854

Ion Ratio Lower Upper

43 100

72 26.5 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.490 ug/l

RT: 7.698 min Scan# 971

Delta R.T. 0.023 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

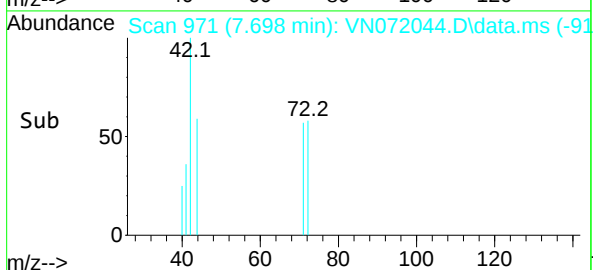
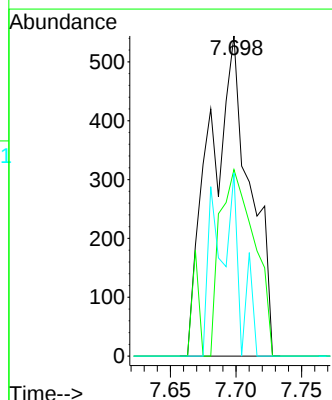
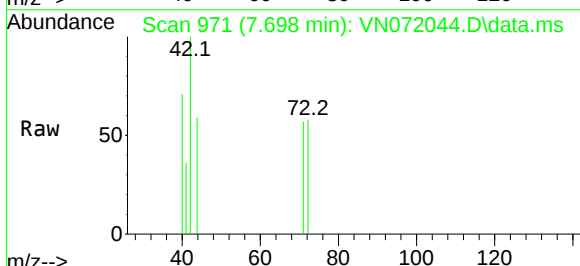
Tgt Ion: 42 Resp: 1163

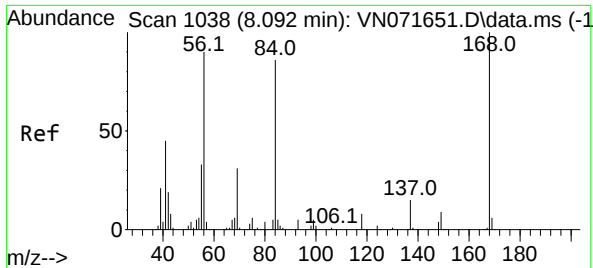
Ion Ratio Lower Upper

42 100

72 50.0 39.7 59.5

71 0.0 36.6 55.0#

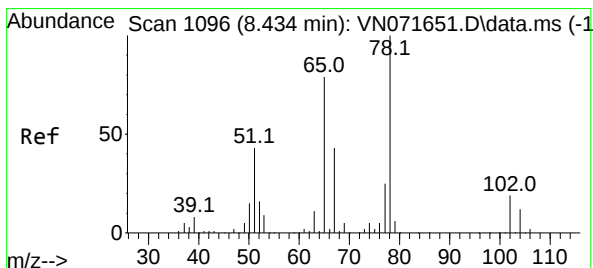
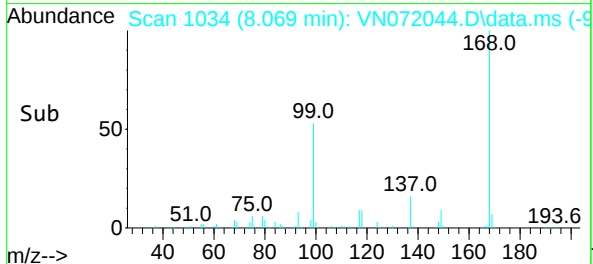
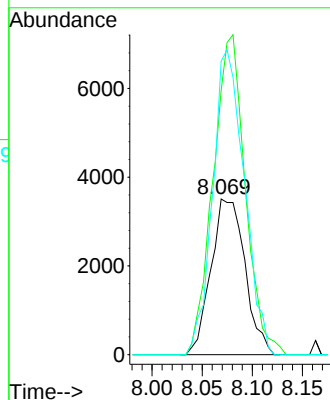
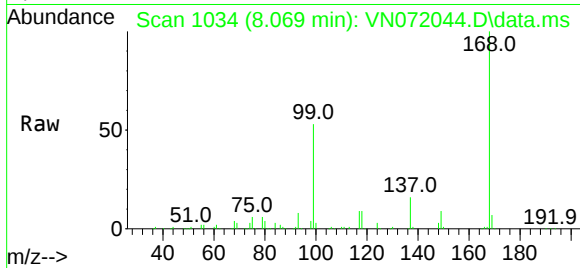




#31
Cyclohexane
Concen: 1.021 ug/l
RT: 8.069 min Scan# 1034
Delta R.T. -0.023 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

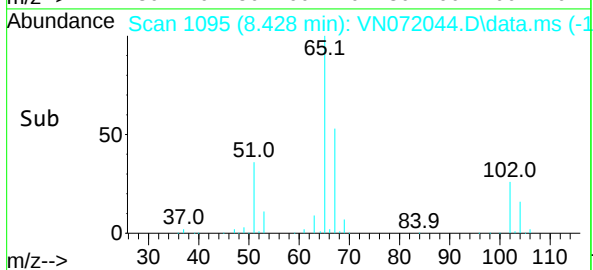
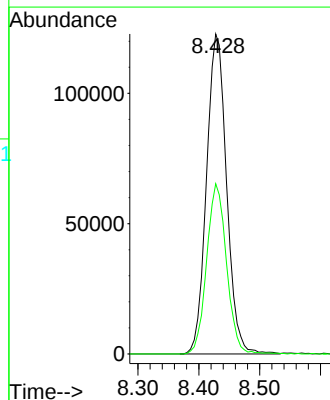
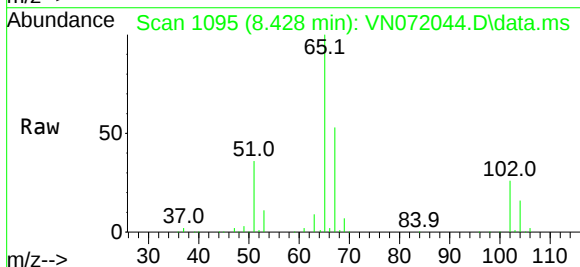
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PB144164TB

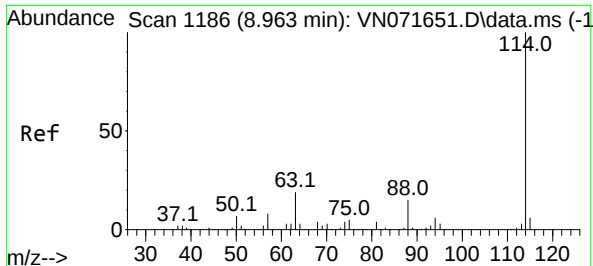
Tgt Ion: 56 Resp: 8266
Ion Ratio Lower Upper
56 100
69 170.0 27.8 41.8#
84 188.7 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.282 ug/l
RT: 8.428 min Scan# 1095
Delta R.T. -0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 65 Resp: 281450
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Instrument :

MSVOA_N

ClientSampleId :

PB144164TB

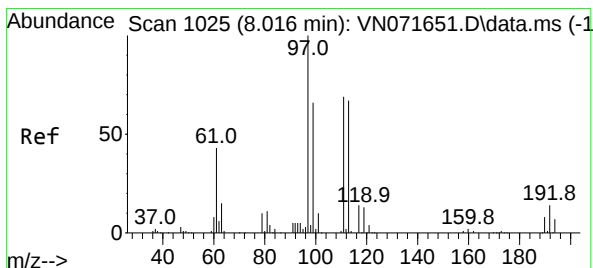
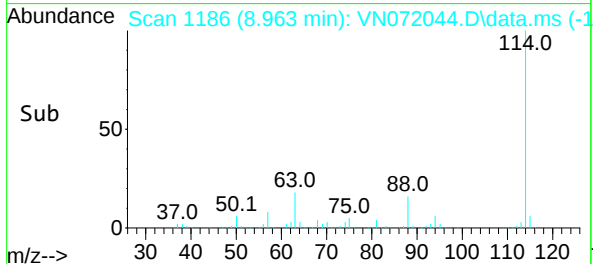
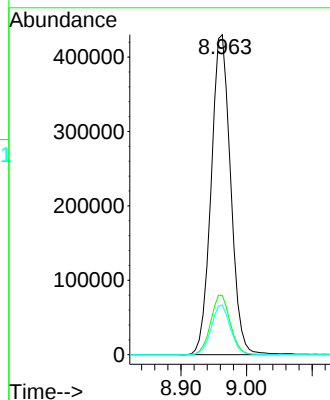
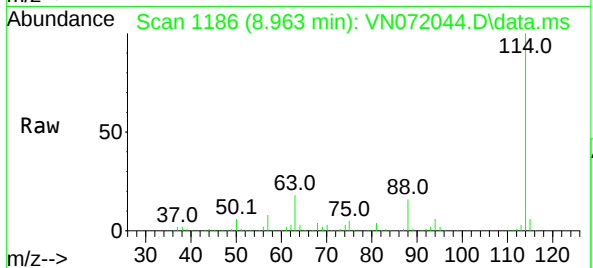
Tgt Ion:114 Resp: 885596

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.0

88 15.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.111 ug/l

RT: 8.010 min Scan# 1024

Delta R.T. -0.006 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

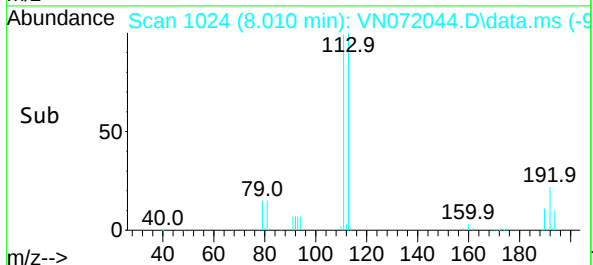
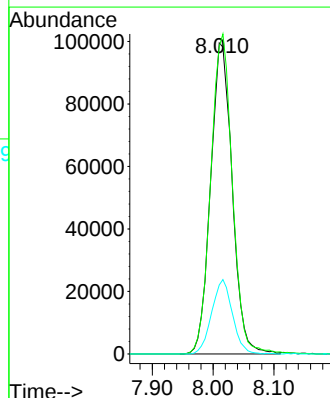
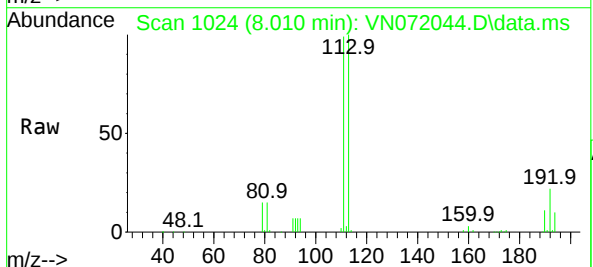
Tgt Ion:113 Resp: 245506

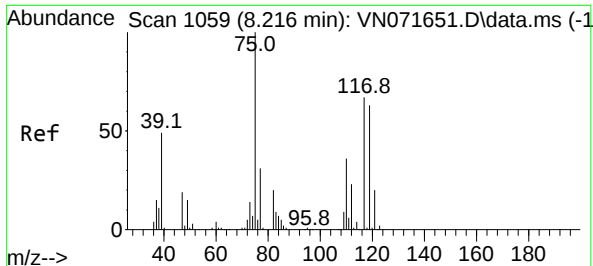
Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

192 22.9 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.535 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Instrument :

MSVOA_N

ClientSampleId :

PB144164TB

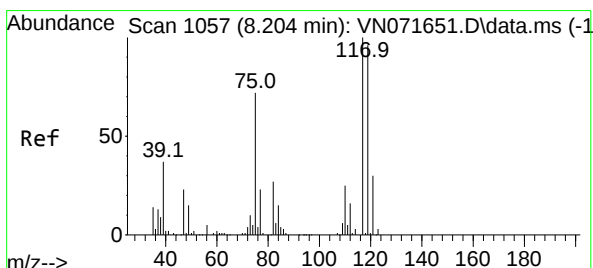
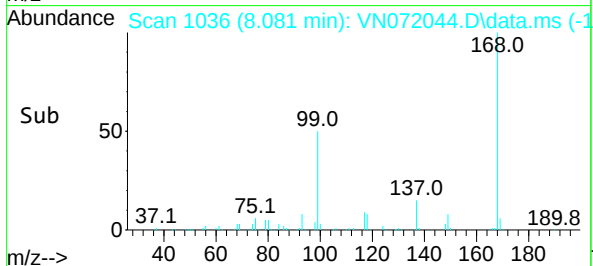
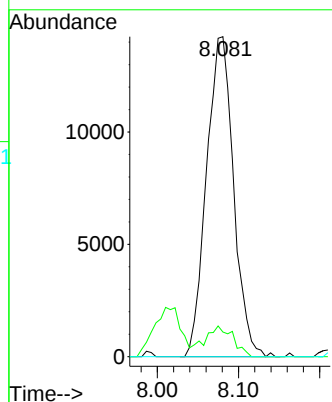
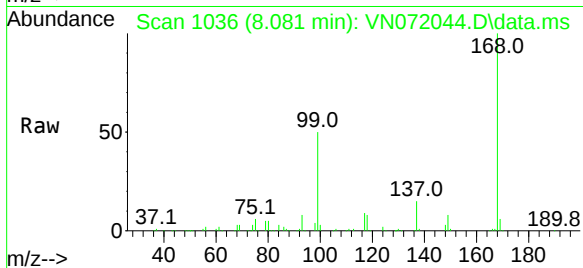
Tgt Ion: 75 Resp: 33004

Ion Ratio Lower Upper

75 100

110 9.5 18.3 54.8#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.379 ug/l

RT: 8.075 min Scan# 1035

Delta R.T. -0.129 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

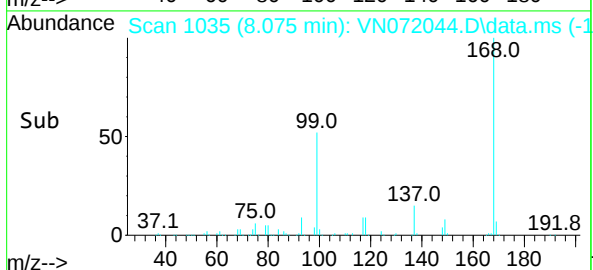
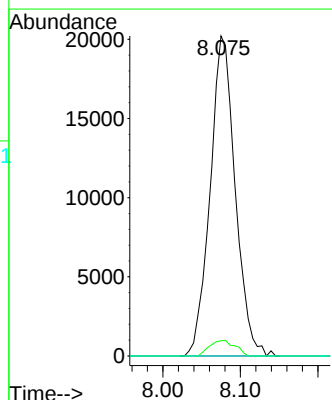
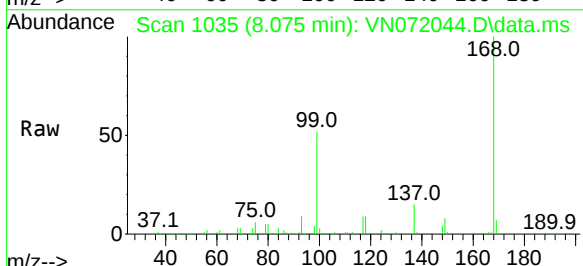
Tgt Ion: 117 Resp: 45499

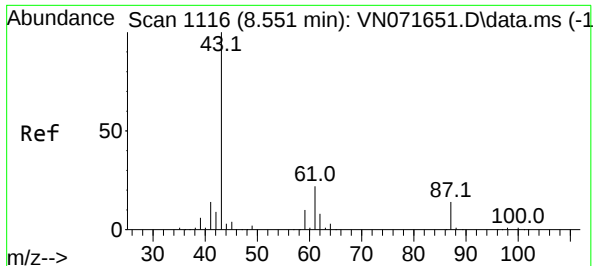
Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.8#

121 0.0 24.6 37.0#

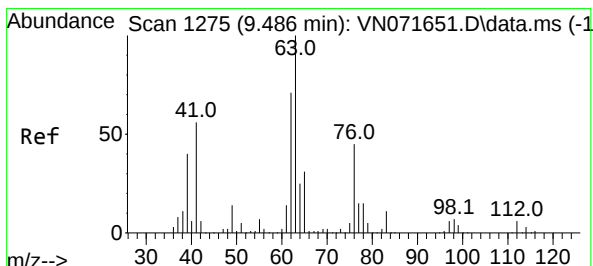
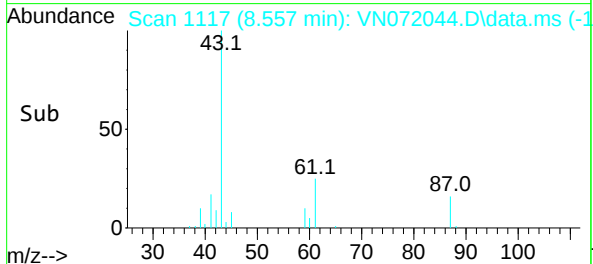
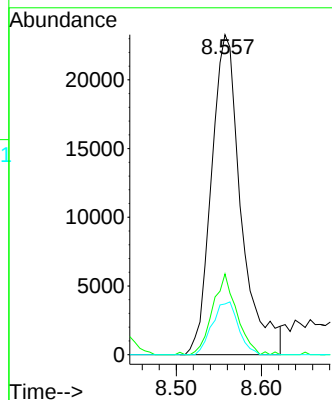
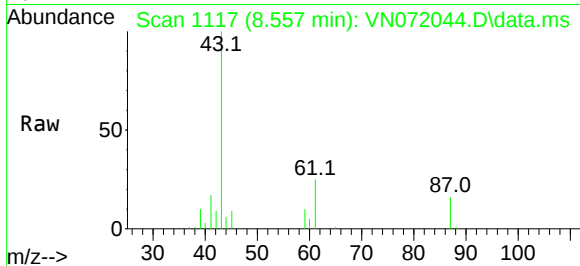




#43
Isopropyl Acetate
Concen: 4.255 ug/l
RT: 8.557 min Scan# 1116
Delta R.T. 0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

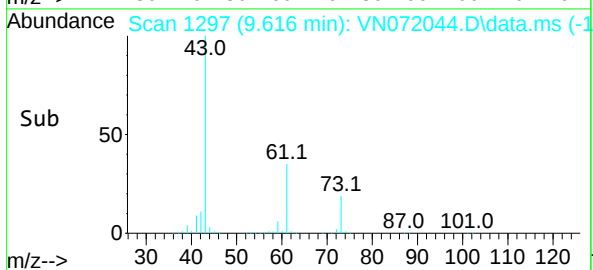
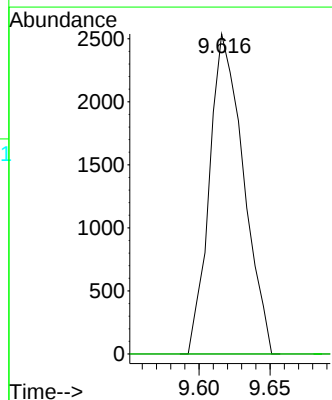
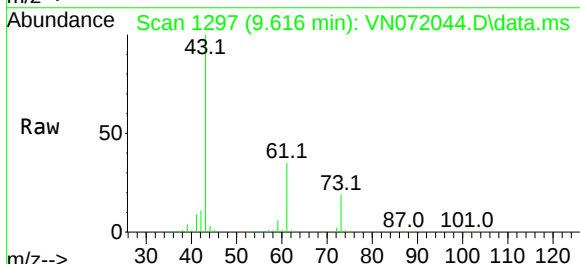
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

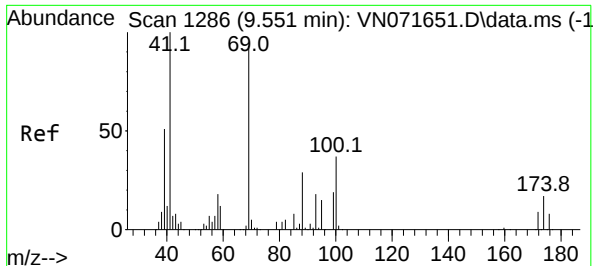
Tgt Ion: 43 Resp: 56369
Ion Ratio Lower Upper
43 100
61 20.6 21.9 32.9#
87 14.4 12.0 18.0



#45
1,2-Dichloropropane
Concen: 0.737 ug/l
RT: 9.616 min Scan# 1297
Delta R.T. 0.130 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 63 Resp: 4232
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#





#48

Methyl methacrylate

Concen: 2.393 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.012 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Instrument :

MSVOA_N

ClientSampleId :

PB144164TB

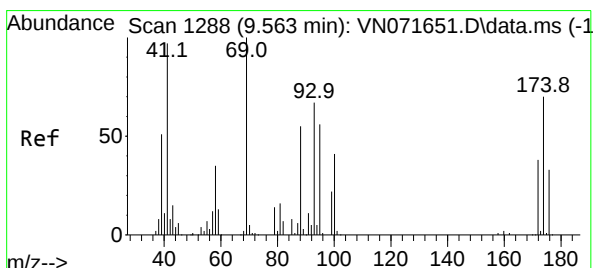
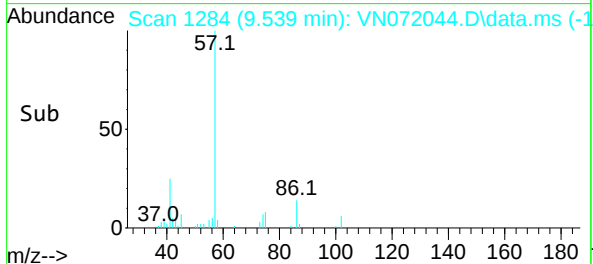
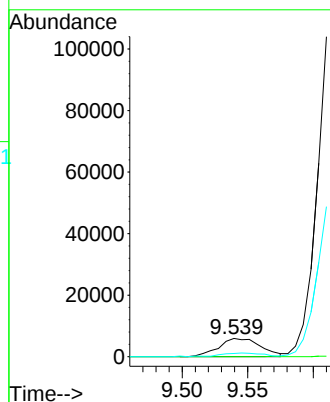
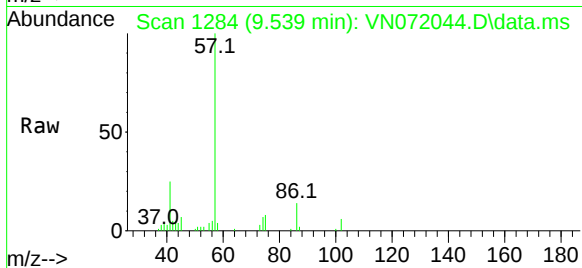
Tgt Ion: 41 Resp: 13155

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.569 min Scan# 1289

Delta R.T. 0.006 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

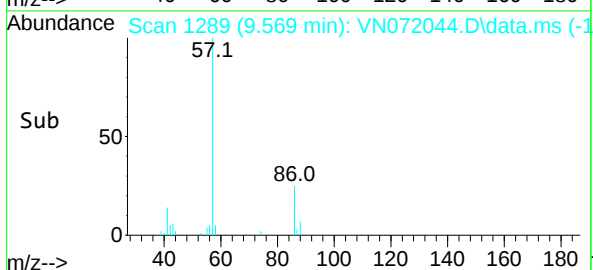
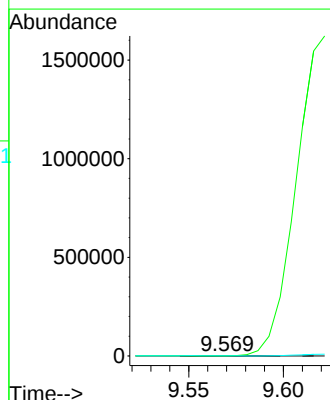
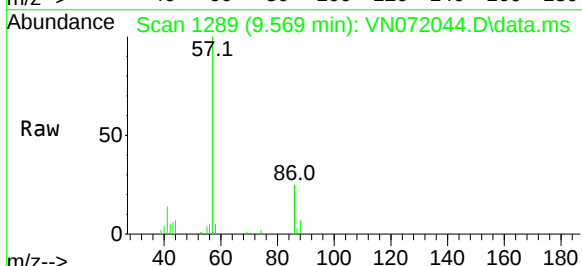
Tgt Ion: 88 Resp: 1035

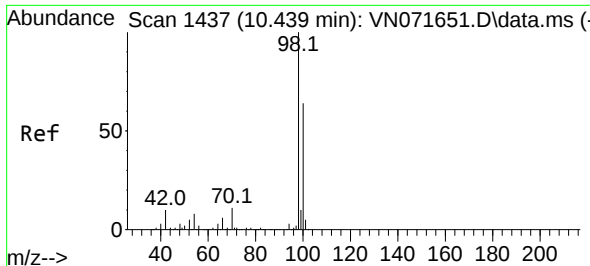
Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.4#

58 297.6 54.2 81.4#

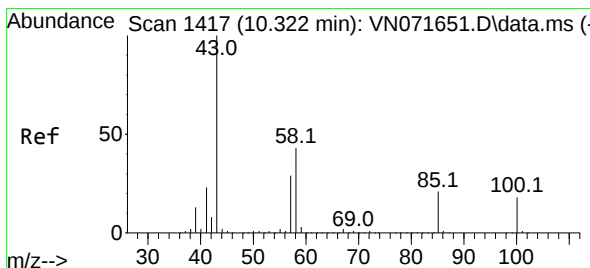
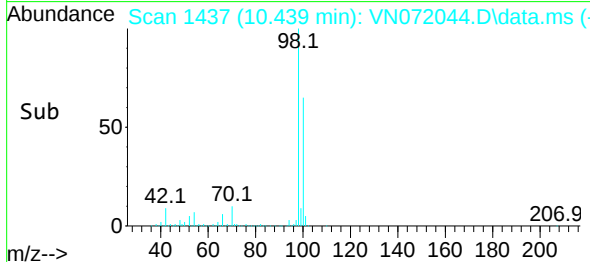
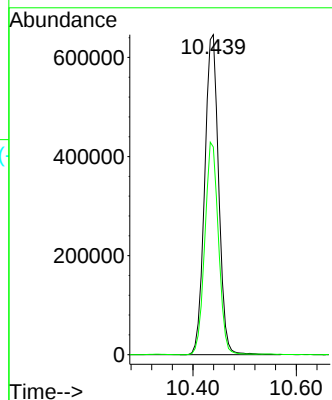
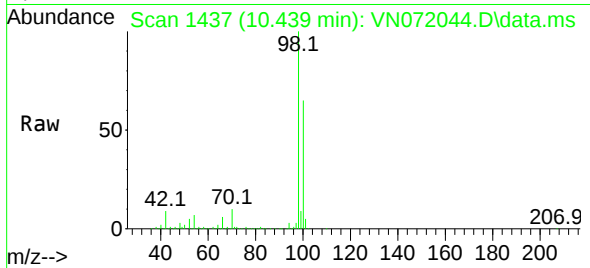




#50
Toluene-d8
Concen: 56.747 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

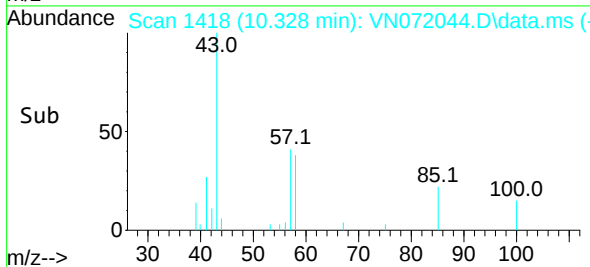
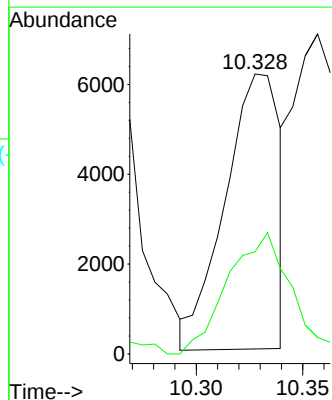
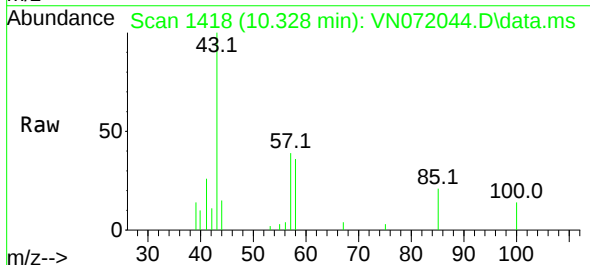
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

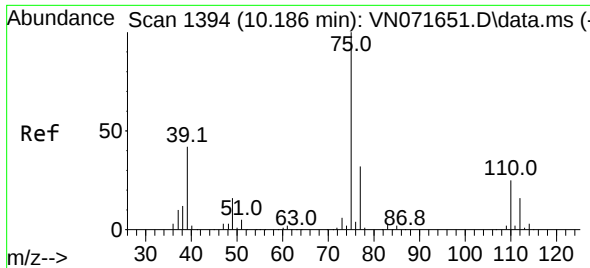
Tgt Ion: 98 Resp: 1209738
Ion Ratio Lower Upper
98 100
100 65.0 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.446 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 43 Resp: 11016
Ion Ratio Lower Upper
43 100
58 51.2 34.1 51.1#

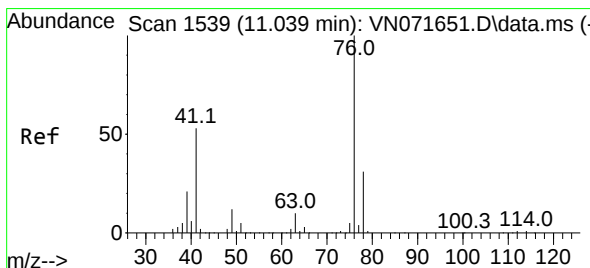
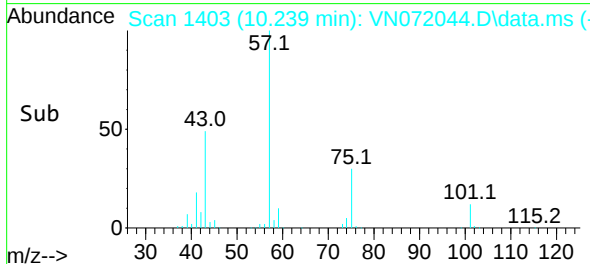
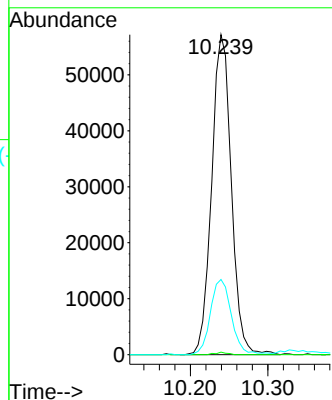
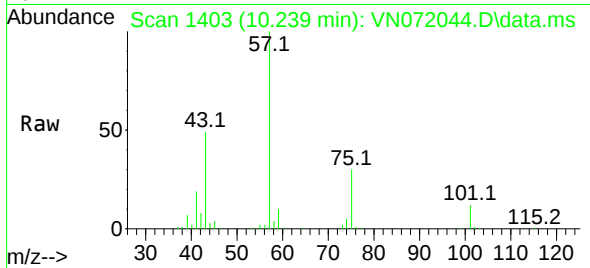




#54
 cis-1,3-Dichloropropene
 Concen: 11.328 ug/l
 RT: 10.239 min Scan# 1403
 Delta R.T. 0.053 min
 Lab File: VN072044.D
 Acq: 19 Apr 2022 12:59

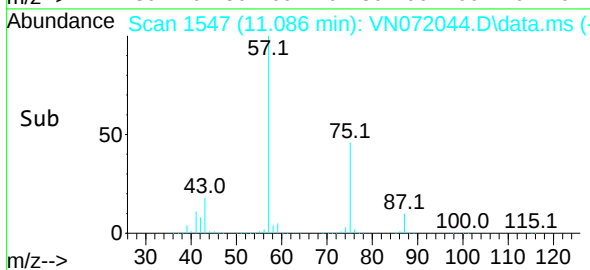
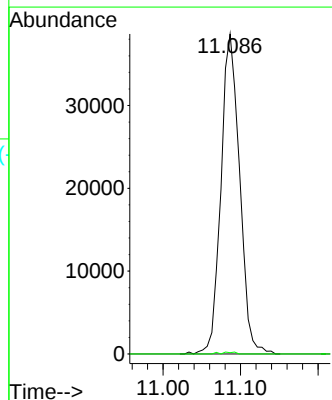
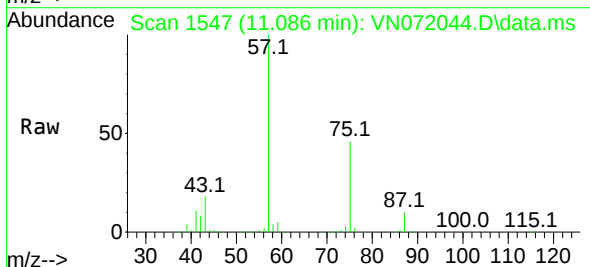
Instrument :
 MSVOA_N
 ClientSampleId :
 PB144164TB

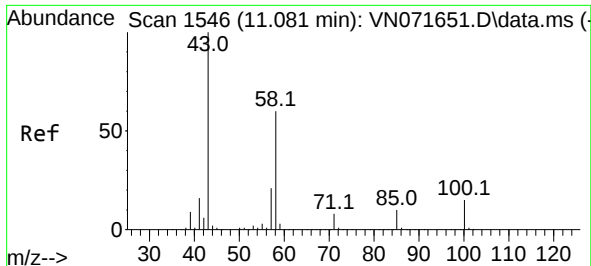
Tgt Ion: 75 Resp: 100690
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 23.5 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 6.478 ug/l
 RT: 11.086 min Scan# 1547
 Delta R.T. 0.047 min
 Lab File: VN072044.D
 Acq: 19 Apr 2022 12:59

Tgt Ion: 76 Resp: 64773
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.2 39.2#

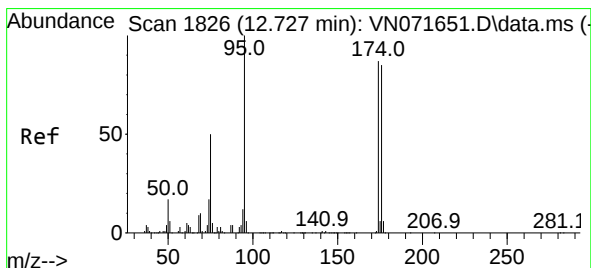
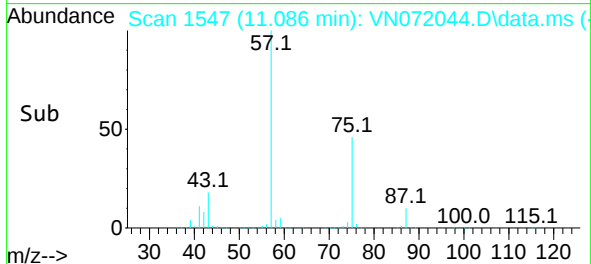
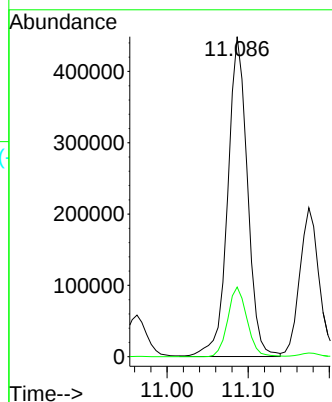
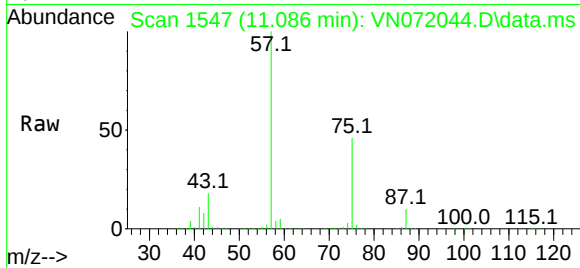




#59
2-Hexanone
Concen: 141.385 ug/l
RT: 11.086 min Scan# 1154
Delta R.T. 0.005 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

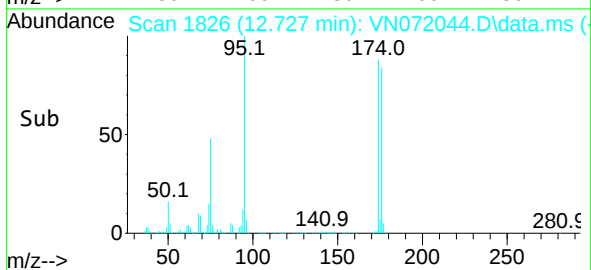
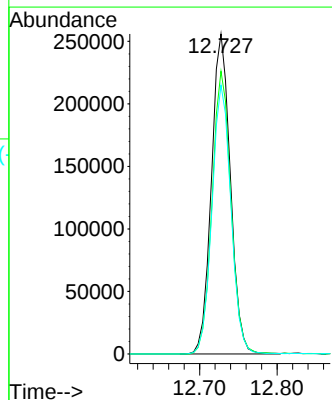
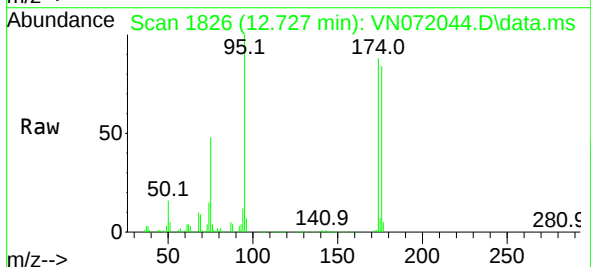
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

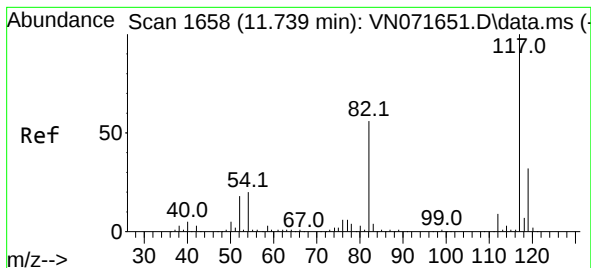
Tgt Ion: 43 Resp: 758237
Ion Ratio Lower Upper
43 100
58 21.3 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 63.054 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 95 Resp: 434731
Ion Ratio Lower Upper
95 100
174 87.7 0.0 167.6
176 84.0 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.739 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

Instrument :

MSVOA_N

ClientSampleId :

PB144164TB

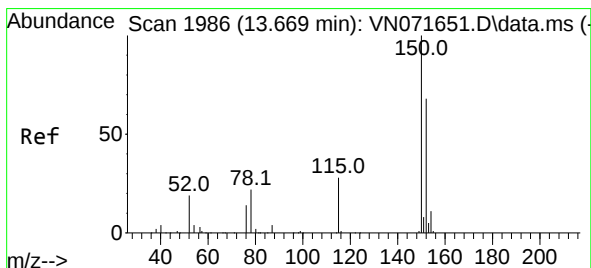
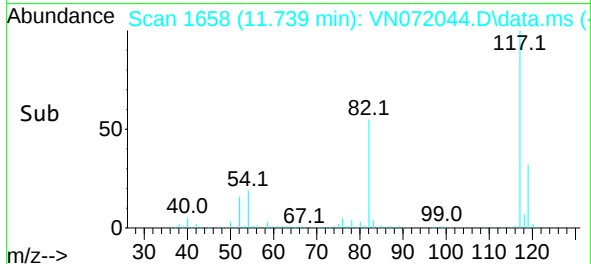
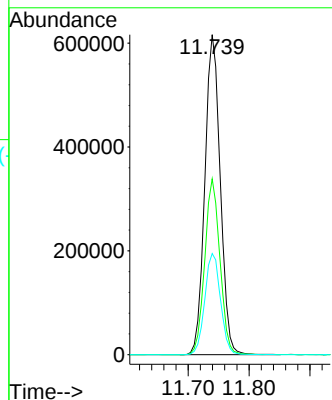
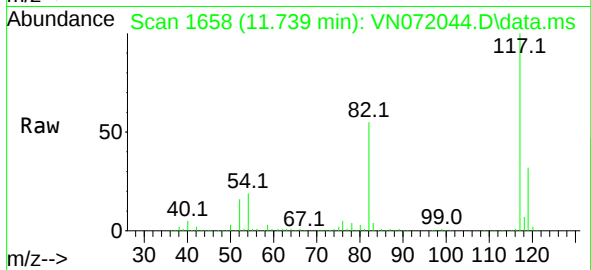
Tgt Ion:117 Resp: 1083112

Ion Ratio Lower Upper

117 100

82 54.9 44.2 66.2

119 31.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.669 min Scan# 1986

Delta R.T. -0.000 min

Lab File: VN072044.D

Acq: 19 Apr 2022 12:59

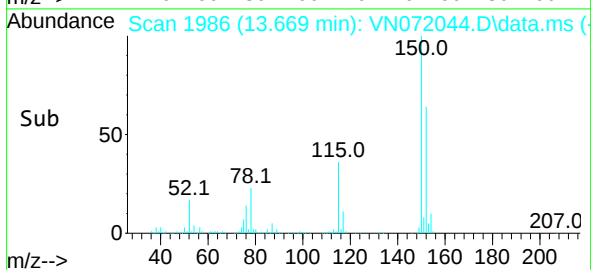
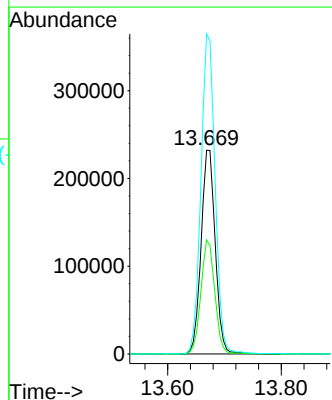
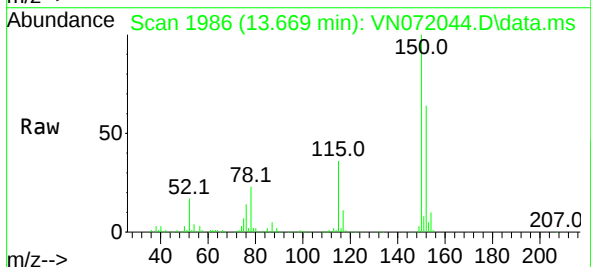
Tgt Ion:152 Resp: 402259

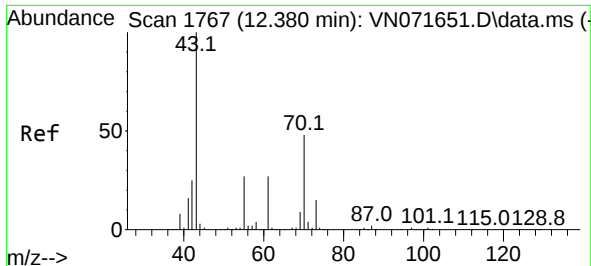
Ion Ratio Lower Upper

152 100

115 54.9 28.9 86.7

150 156.9 0.0 356.2

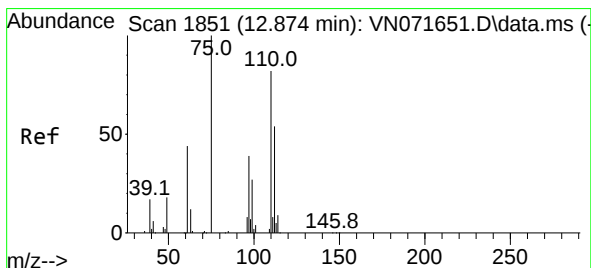
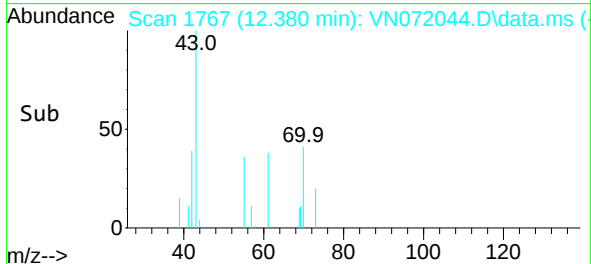
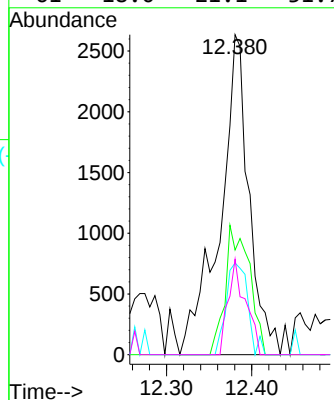
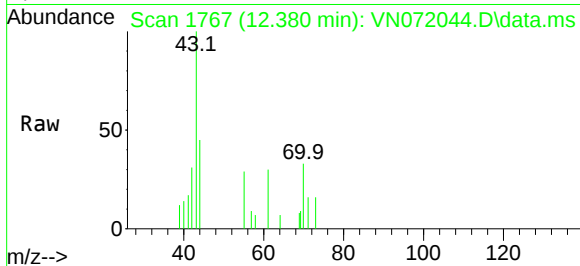




#74
N-amy1 acetate
Concen: 0.642 ug/l
RT: 12.380 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

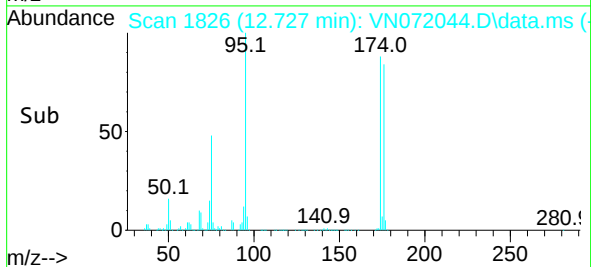
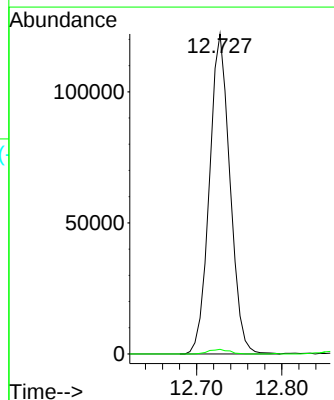
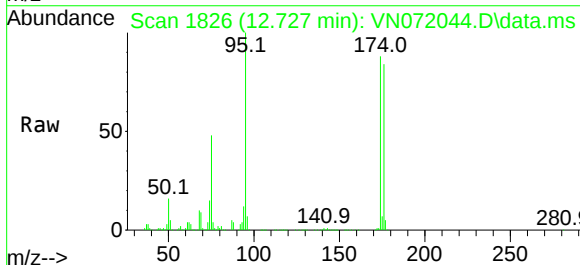
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

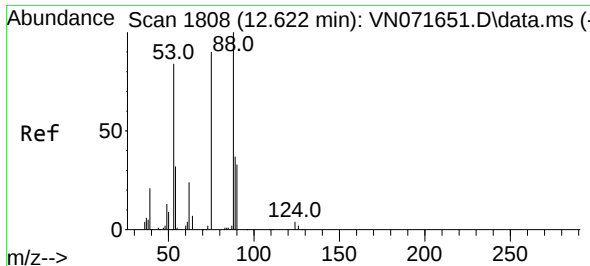
Tgt Ion: 43	Resp: 6231
Ion Ratio	Lower Upper
43 100	
70 33.7	39.0 58.4#
55 21.3	21.1 31.7
61 18.0	21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 21.951 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 75	Resp: 204556
Ion Ratio	Lower Upper
75 100	
77 1.4	98.5 295.5#

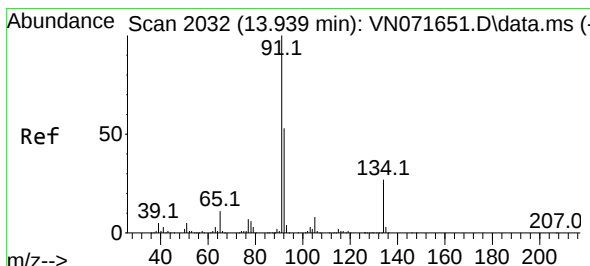
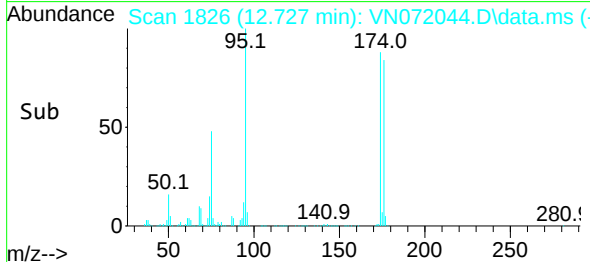
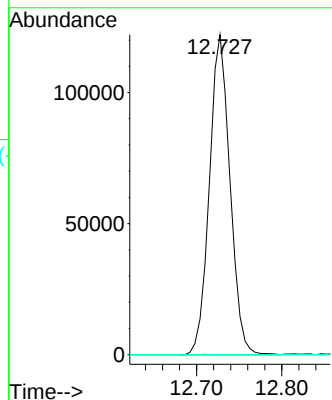
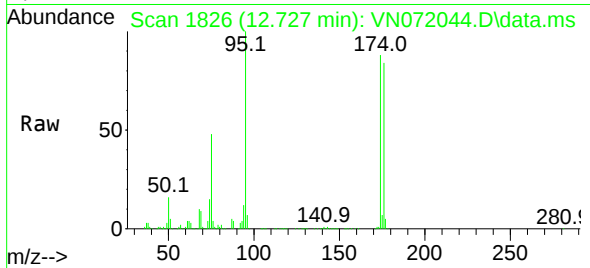




#81
trans-1,4-Dichloro-2-butene
Concen: 68.026 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.105 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

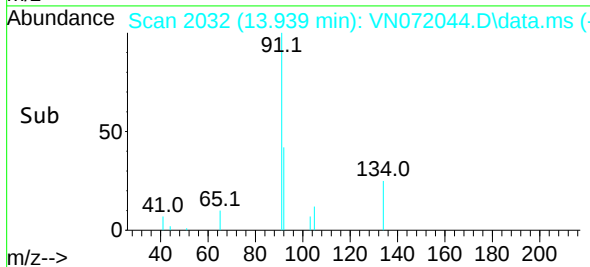
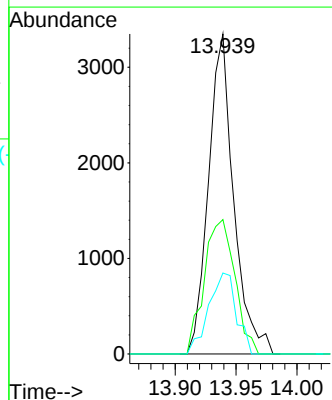
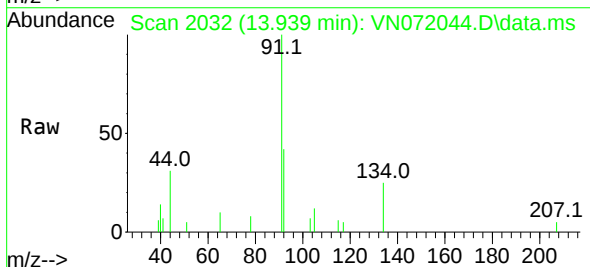
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

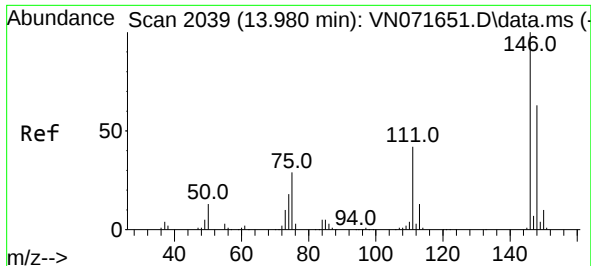
Tgt Ion: 75 Resp: 204556
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#89
n-Butylbenzene
Concen: 0.256 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion: 91 Resp: 4819
Ion Ratio Lower Upper
91 100
92 51.2 26.9 80.7
134 27.7 13.6 40.8

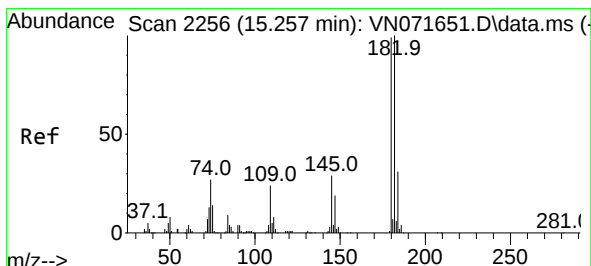
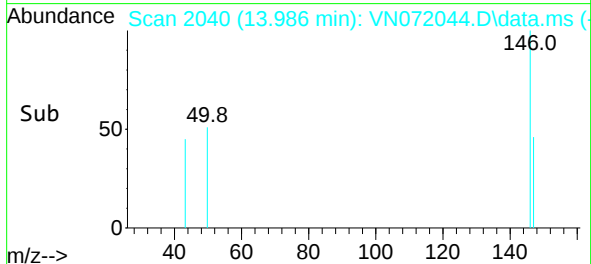
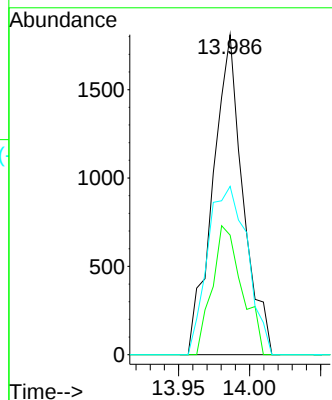
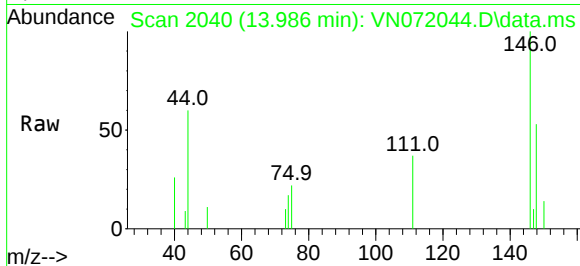




#91
1,2-Dichlorobenzene
Concen: 0.201 ug/l
RT: 13.986 min Scan# 2039
Delta R.T. 0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

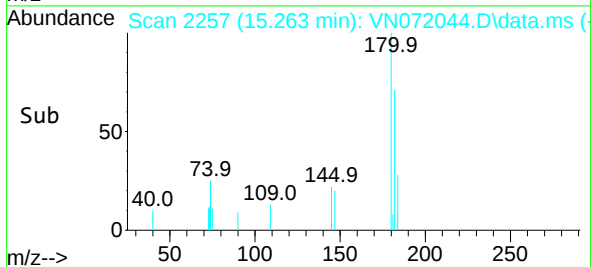
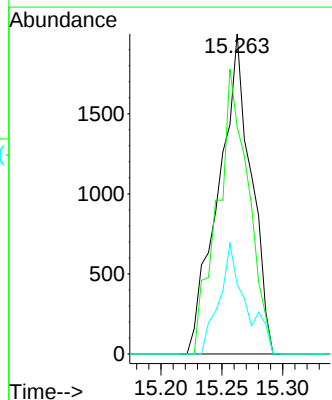
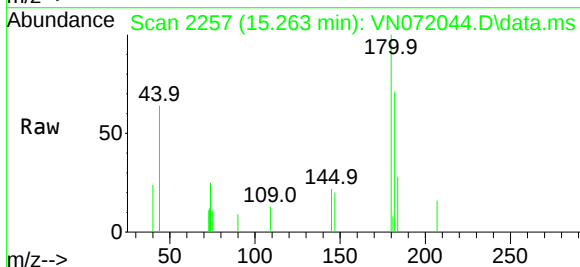
Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

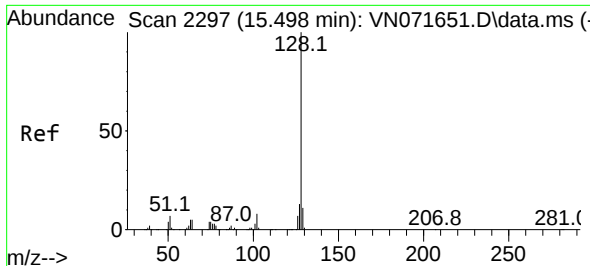
Tgt Ion:146 Resp: 2669
Ion Ratio Lower Upper
146 100
111 39.9 20.9 62.8
148 69.5 32.1 96.3



#93
1,2,4-Trichlorobenzene
Concen: 2.642 ug/l
RT: 15.263 min Scan# 2257
Delta R.T. 0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion:180 Resp: 3713
Ion Ratio Lower Upper
180 100
182 84.7 47.5 142.5
145 28.0 14.5 43.5

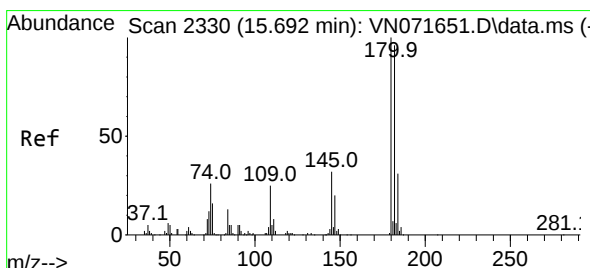
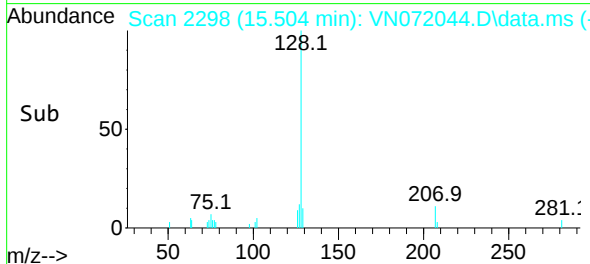
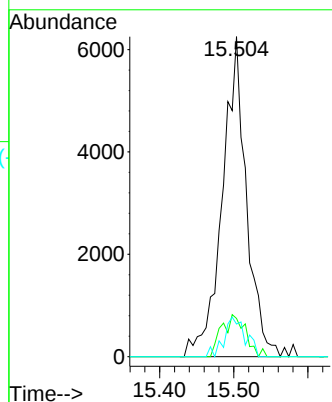
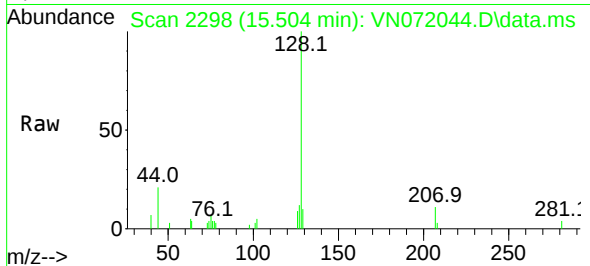




#95
Naphthalene
Concen: 4.514 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Instrument :
MSVOA_N
ClientSampleId :
PB144164TB

Tgt Ion:128 Resp: 14102
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 11.0 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 3.079 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN072044.D
Acq: 19 Apr 2022 12:59

Tgt Ion:180 Resp: 4332
Ion Ratio Lower Upper
180 100
182 91.0 47.8 143.3
145 24.4 15.5 46.5

