

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041522\
 Data File : VN072013.D
 Acq On : 15 Apr 2022 20:03
 Operator : JC\MD
 Sample : PB144101ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB144101ZHE#01

Quant Time: Apr 16 00:07:54 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)

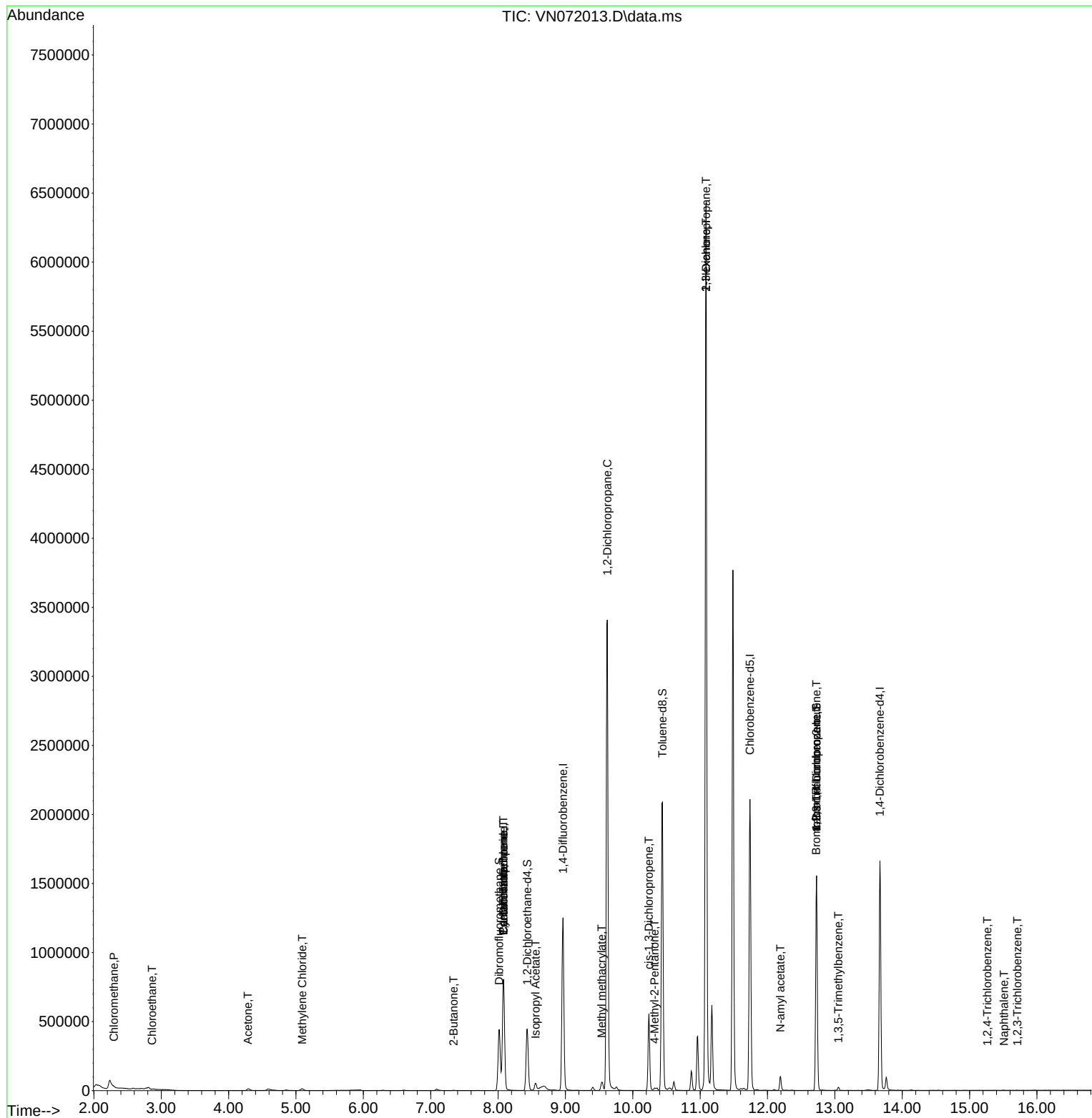
Internal Standards						
1) Pentafluorobenzene	8.081	168	677974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1157430	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1324616	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	490489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	370518	47.871	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.740%		
35) Dibromofluoromethane	8.016	113	327074	48.023	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.040%		
50) Toluene-d8	10.439	98	1528607	54.865	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	109.720%		
62) 4-Bromofluorobenzene	12.727	95	545485	60.537	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	121.080%		
Target Compounds						Qvalue
3) Chloromethane	2.299	50	2490	0.365	ug/l #	79
6) Chloroethane	2.863	64	4320	0.801	ug/l #	66
16) Acetone	4.287	43	20857	6.306	ug/l	99
18) Methyl Acetate	4.851	43	9424	Below Cal		92
20) Methylene Chloride	5.093	84	11484	1.647	ug/l	96
25) 2-Butanone	7.340	43	3323	0.697	ug/l	99
31) Cyclohexane	8.081	56	10481	0.996	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	44598	4.689	ug/l #	49
38) Carbon Tetrachloride	8.081	117	63054	6.764	ug/l #	17
43) Isopropyl Acetate	8.557	43	59283	3.424	ug/l #	93
45) 1,2-Dichloropropane	9.622	63	5110	0.681	ug/l #	44
48) Methyl methacrylate	9.539	41	16146	2.248	ug/l #	10
49) 1,4-Dioxane	9.575	88	71	Below Cal	#	25
51) 4-Methyl-2-Pentanone	10.322	43	8611	0.865	ug/l #	80
54) cis-1,3-Dichloropropene	10.239	75	111705	9.616	ug/l #	57
57) 1,3-Dichloropropane	11.086	76	73798	5.647	ug/l #	43
59) 2-Hexanone	11.086	43	846918	120.832	ug/l #	49
71) Bromoform	12.722	173	2820	0.387	ug/l #	28
74) N-amyl acetate	12.192	43	29263	2.471	ug/l #	51
76) 1,2,3-Trichloropropane	12.727	75	260318	22.910	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.051	105	11077	0.338	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.727	75	260318	70.998	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.263	180	221	2.113	ug/l #	61
95) Naphthalene	15.510	128	978	3.843	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.710	180	395	2.464	ug/l #	12

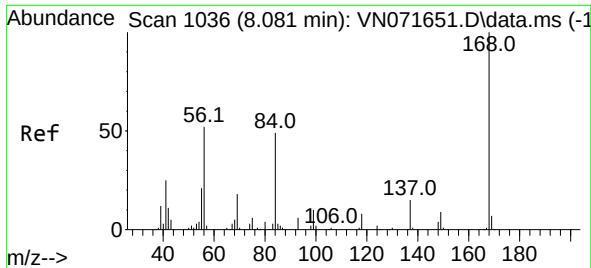
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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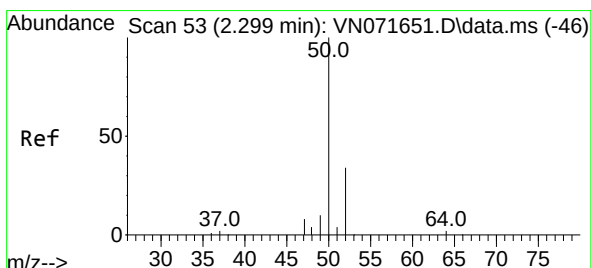
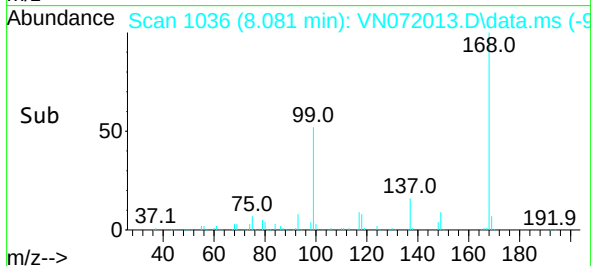
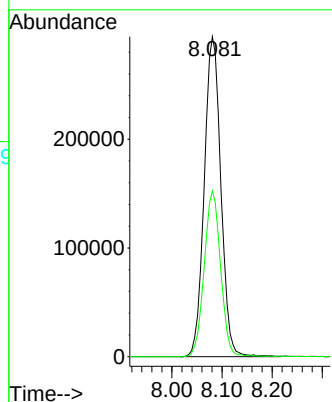
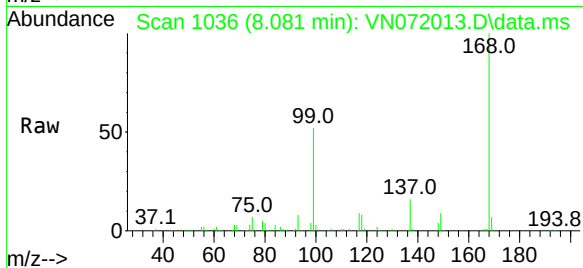




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

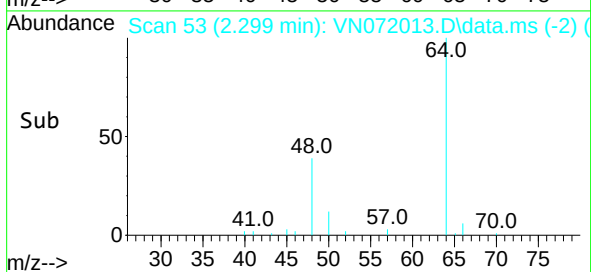
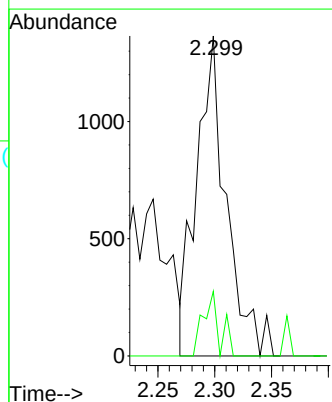
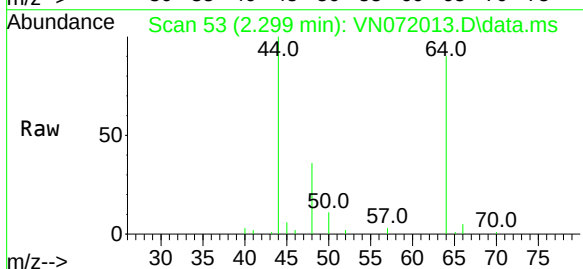
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

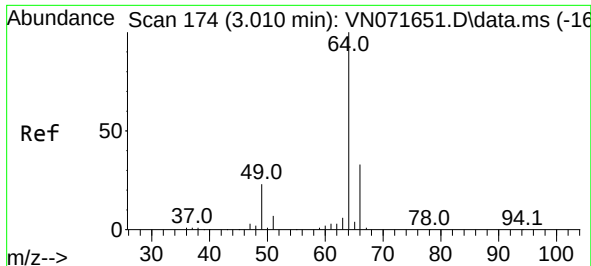
Tgt Ion:168 Resp: 677974
Ion Ratio Lower Upper
168 100
99 51.8 42.3 63.5



#3
Chloromethane
Concen: 0.365 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion: 50 Resp: 2490
Ion Ratio Lower Upper
50 100
52 20.2 25.7 38.5#

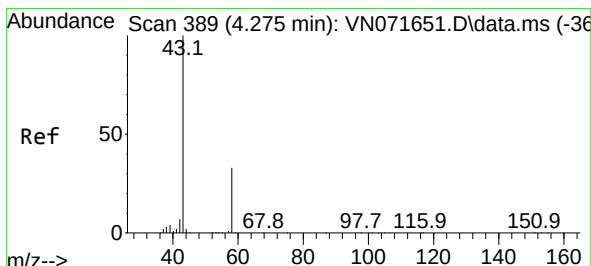
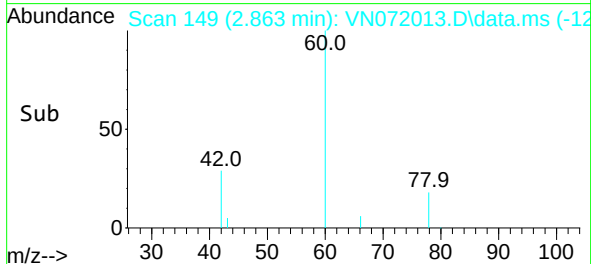
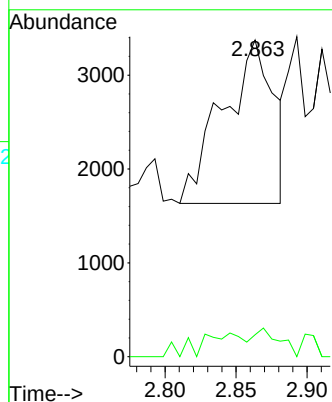
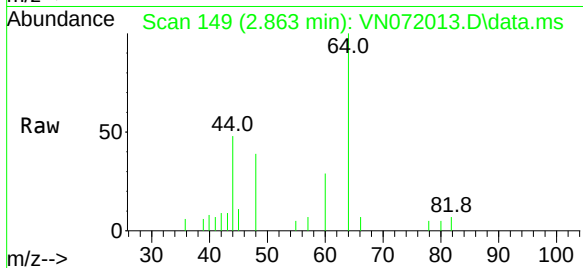




#6
Chloroethane
Concen: 0.801 ug/l
RT: 2.863 min Scan# 14
Delta R.T. -0.147 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

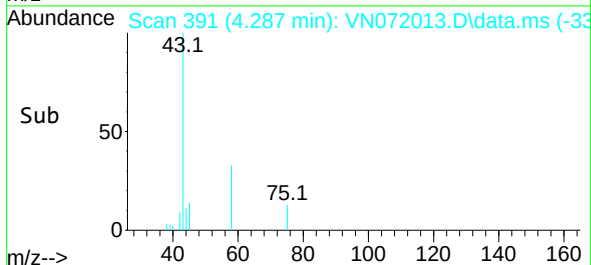
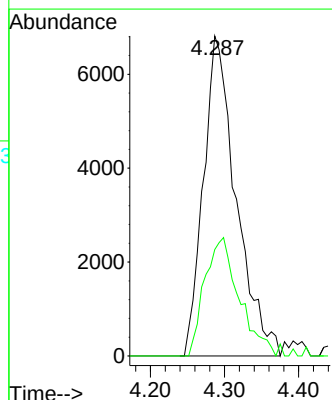
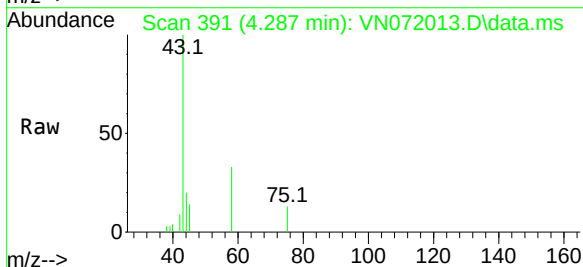
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

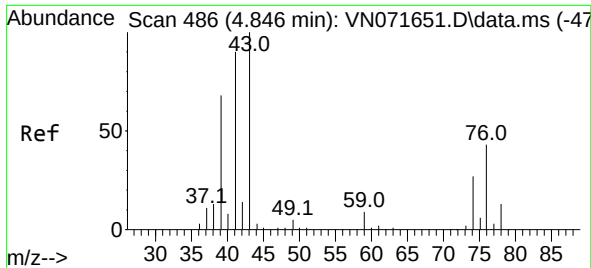
Tgt Ion: 64 Resp: 4320
Ion Ratio Lower Upper
64 100
66 13.4 26.2 39.4#



#16
Acetone
Concen: 6.306 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion: 43 Resp: 20857
Ion Ratio Lower Upper
43 100
58 33.2 26.0 39.0

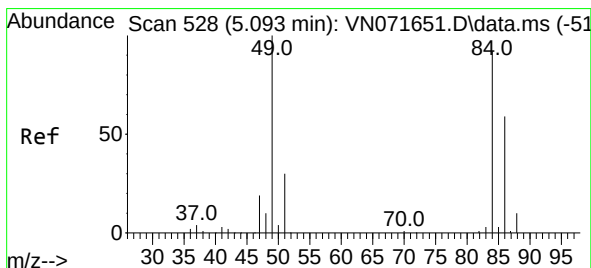
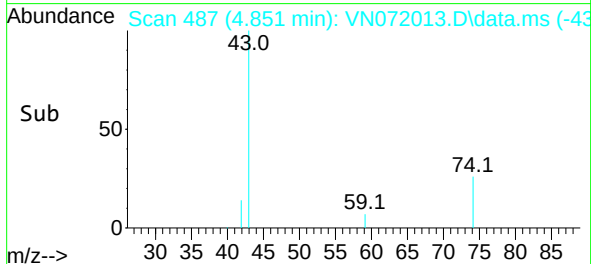
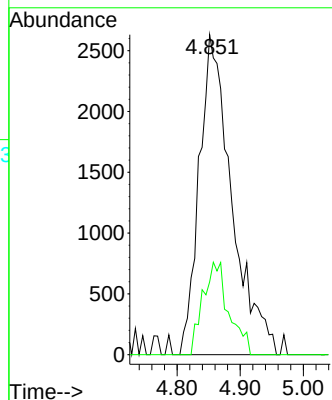
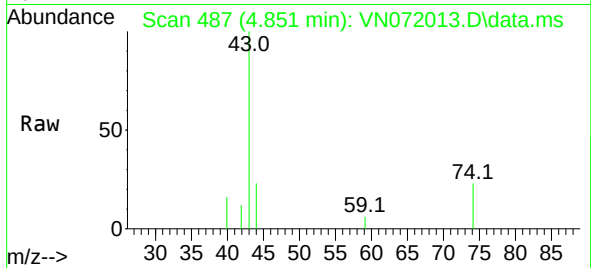




#18
Methyl Acetate
Concen: Below Cal
RT: 4.851 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

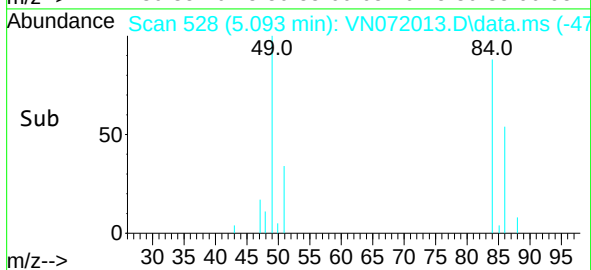
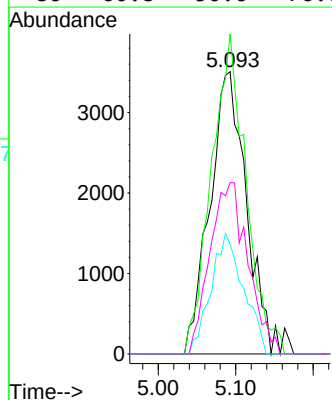
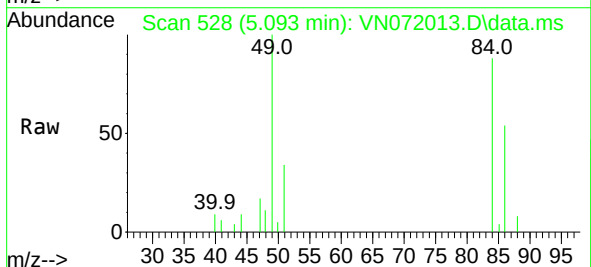
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

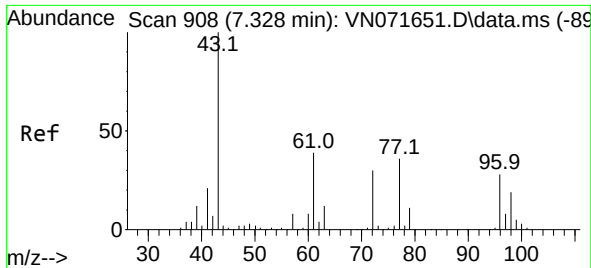
Tgt Ion: 43 Resp: 9424
Ion Ratio Lower Upper
43 100
74 23.0 21.6 32.4



#20
Methylene Chloride
Concen: 1.647 ug/l
RT: 5.093 min Scan# 528
Delta R.T. -0.000 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion: 84 Resp: 11484
Ion Ratio Lower Upper
84 100
49 113.4 88.3 132.5
51 38.9 28.2 42.2
86 60.8 50.6 76.0

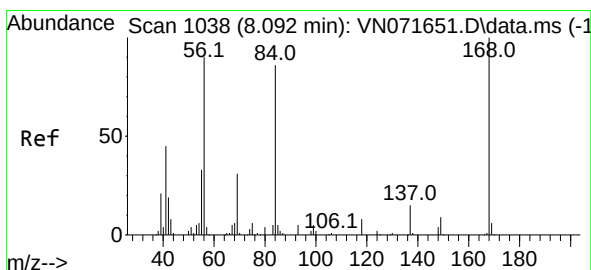
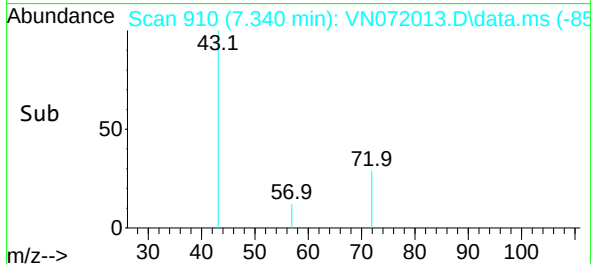
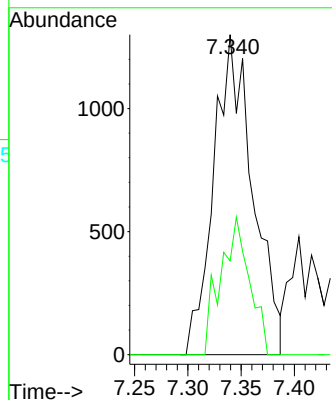
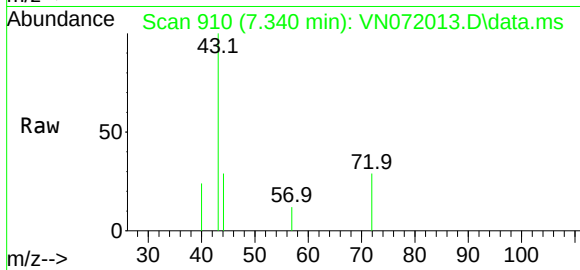




#25
2-Butanone
Concen: 0.697 ug/l
RT: 7.340 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

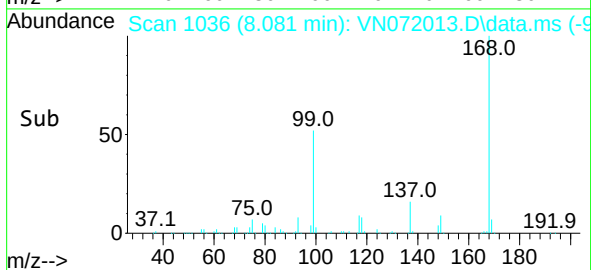
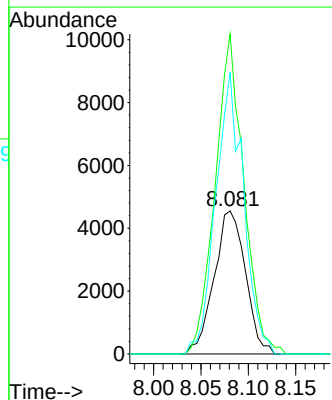
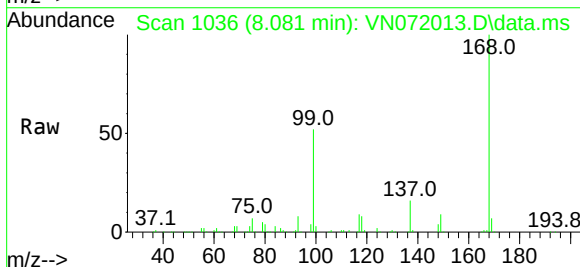
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

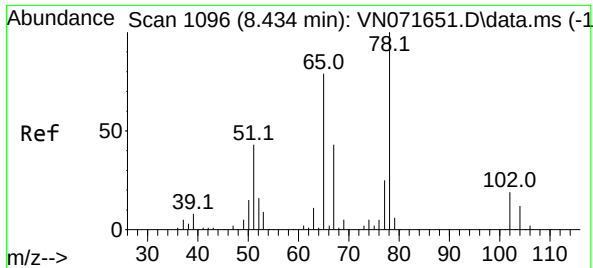
Tgt Ion: 43 Resp: 3323
Ion Ratio Lower Upper
43 100
72 29.3 23.7 35.5



#31
Cyclohexane
Concen: 0.996 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.011 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion: 56 Resp: 10481
Ion Ratio Lower Upper
56 100
69 223.6 27.8 41.8#
84 196.8 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 47.871 ug/l

RT: 8.434 min Scan# 1109

Delta R.T. -0.000 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

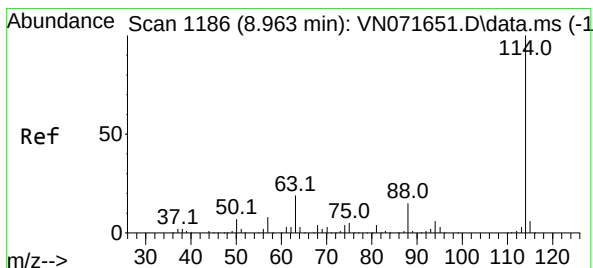
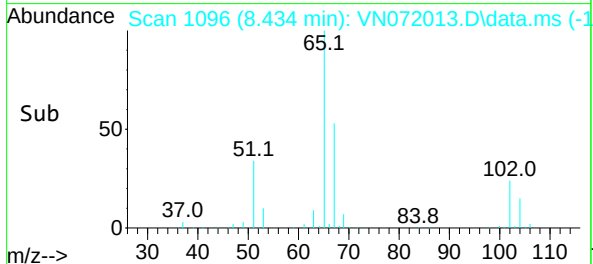
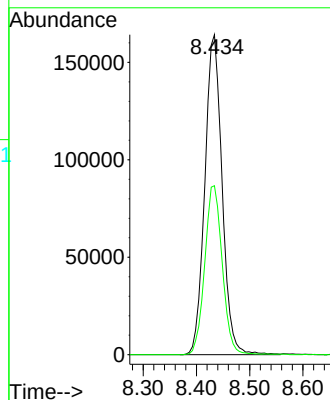
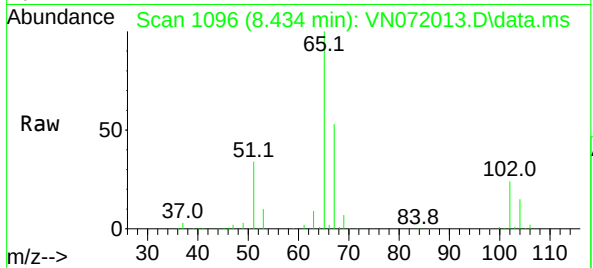
PB144101ZHE#01

Tgt Ion: 65 Resp: 370518

Ion Ratio Lower Upper

65 100

67 53.5 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: VN072013.D

Acq: 15 Apr 2022 20:03

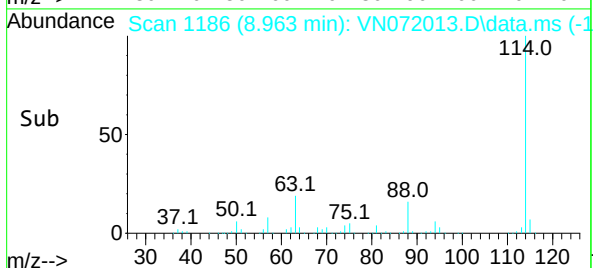
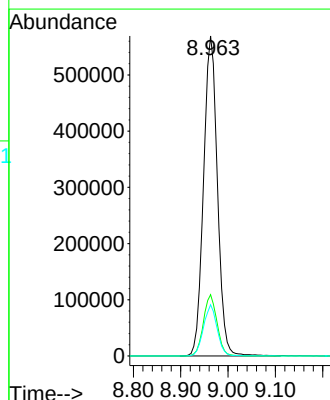
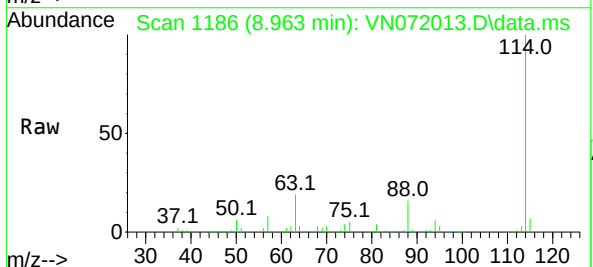
Tgt Ion: 114 Resp: 1157430

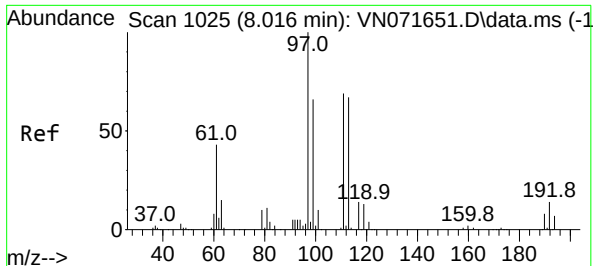
Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.023 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

PB144101ZHE#01

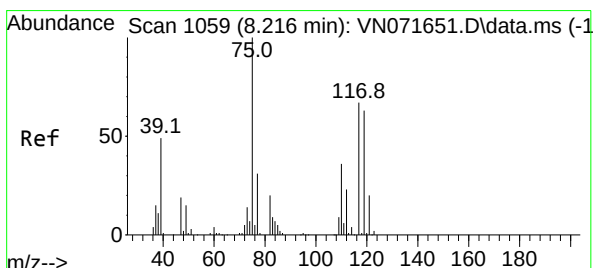
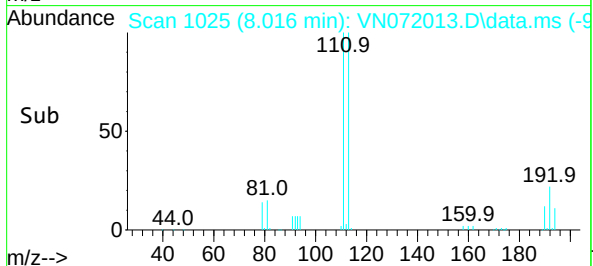
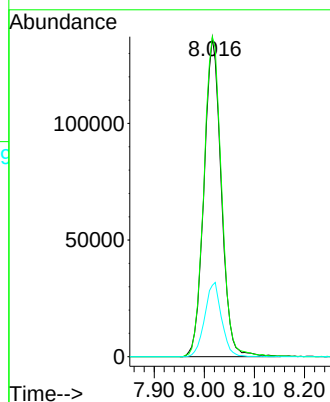
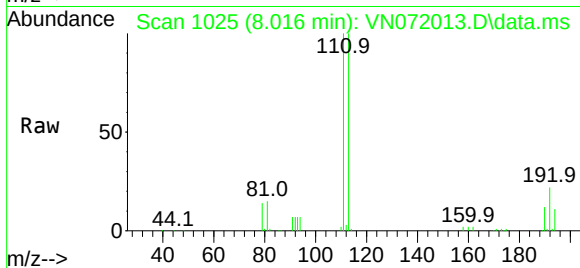
Tgt Ion:113 Resp: 327074

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

192 22.7 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.689 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

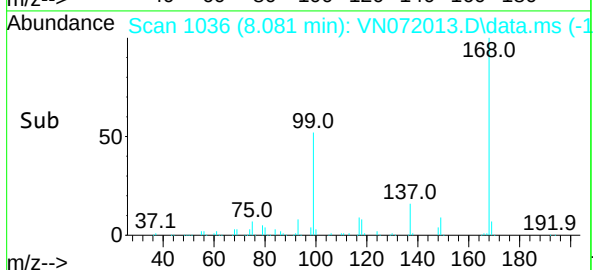
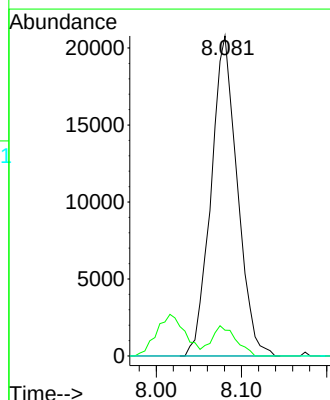
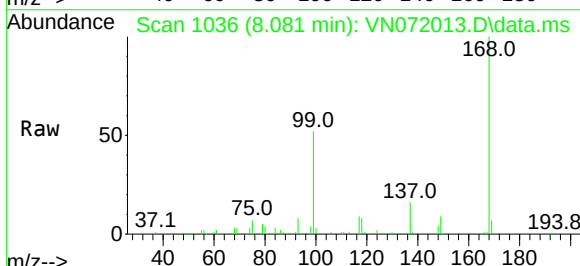
Tgt Ion: 75 Resp: 44598

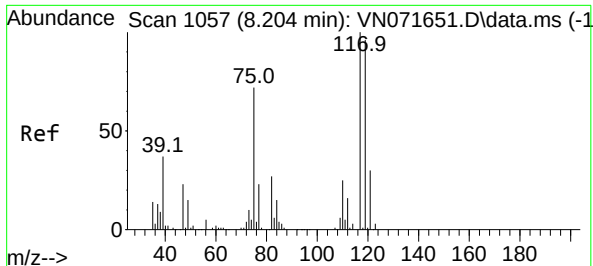
Ion Ratio Lower Upper

75 100

110 8.7 18.3 54.8#

77 0.0 25.1 37.7#

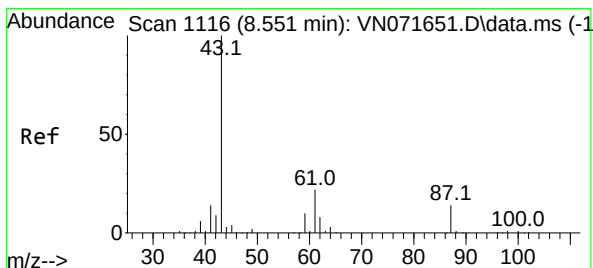
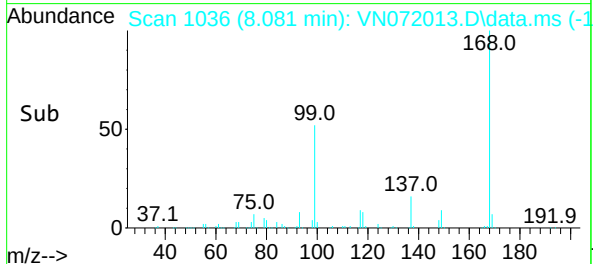
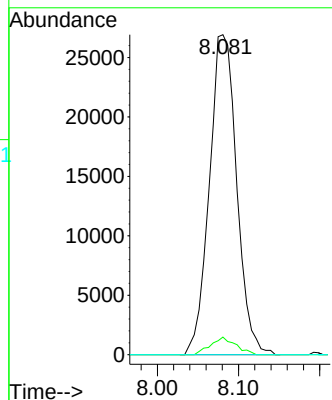
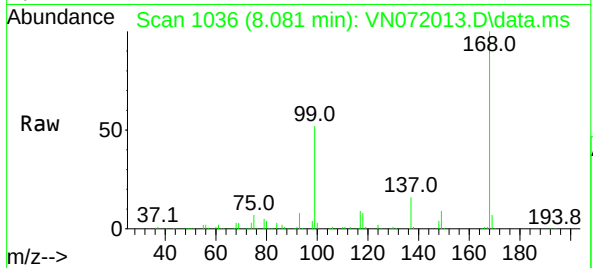




#38
Carbon Tetrachloride
Concen: 6.764 ug/l
RT: 8.081 min Scan# 1107
Delta R.T. -0.123 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

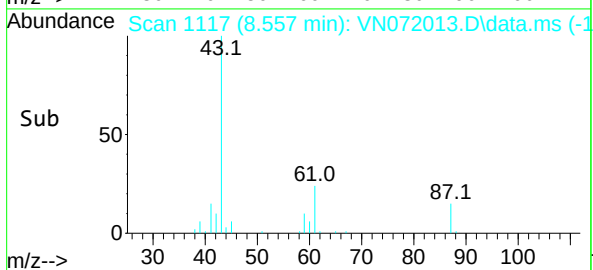
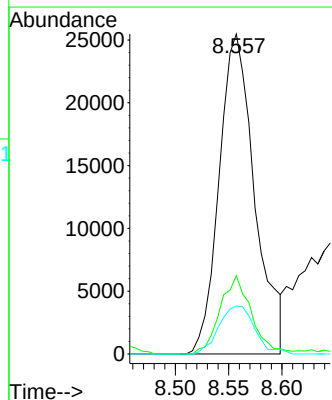
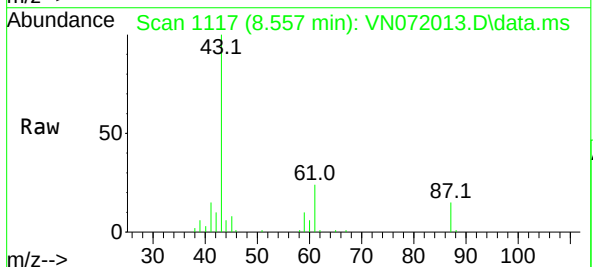
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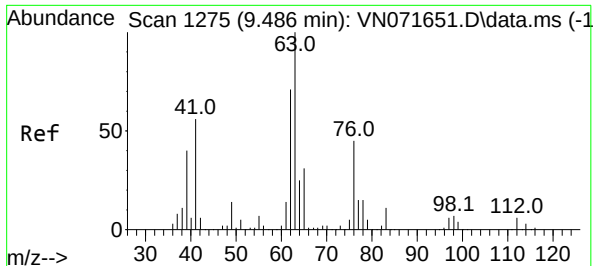
Tgt Ion:117 Resp: 63054
Ion Ratio Lower Upper
117 100
119 5.5 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 3.424 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion: 43 Resp: 59283
Ion Ratio Lower Upper
43 100
61 21.5 21.9 32.9#
87 15.0 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.681 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.136 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

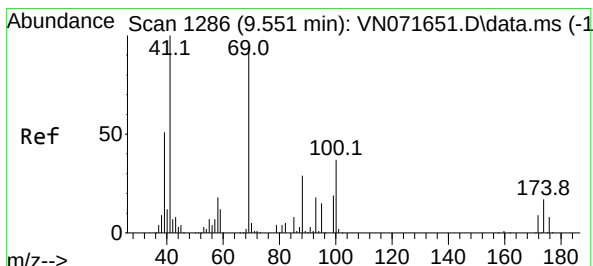
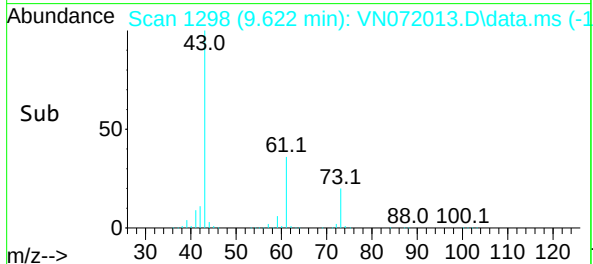
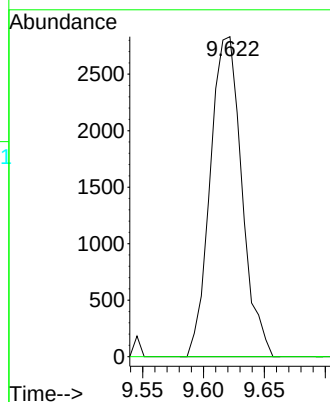
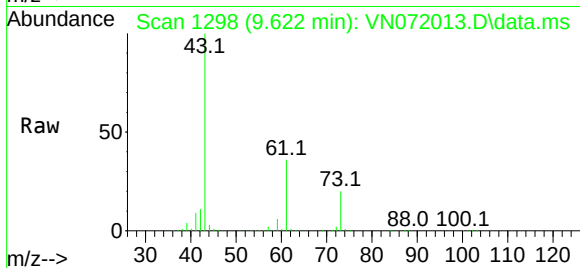
PB144101ZHE#01

Tgt Ion: 63 Resp: 5110

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.248 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.012 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

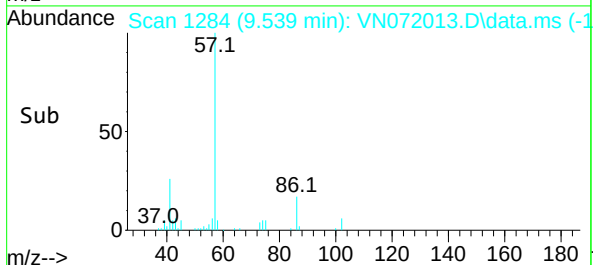
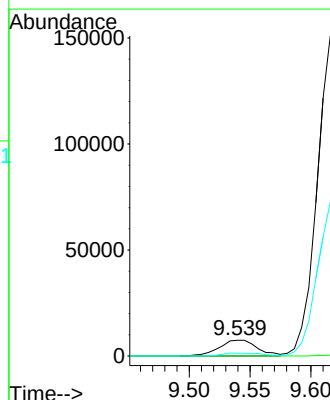
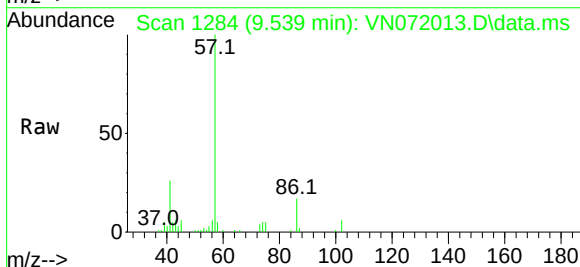
Tgt Ion: 41 Resp: 16146

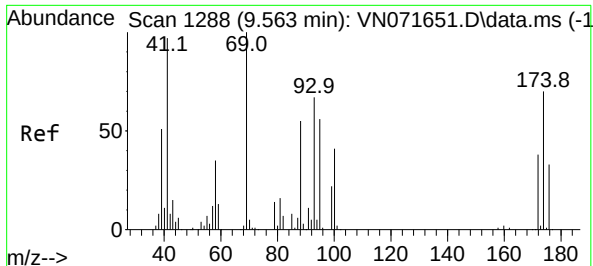
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.575 min Scan# 1288

Delta R.T. 0.012 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

PB144101ZHE#01

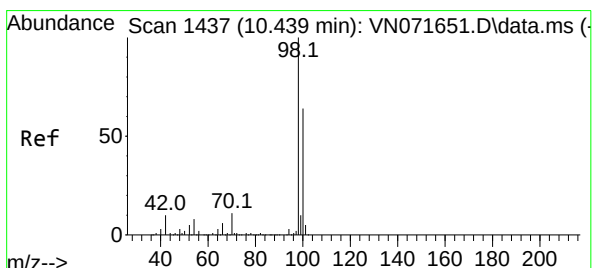
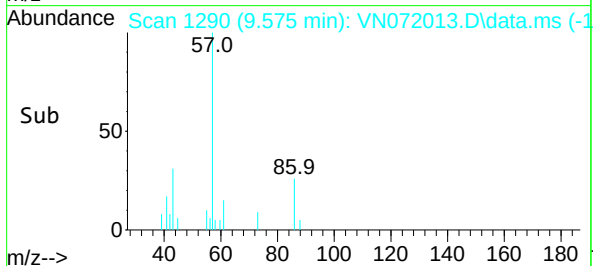
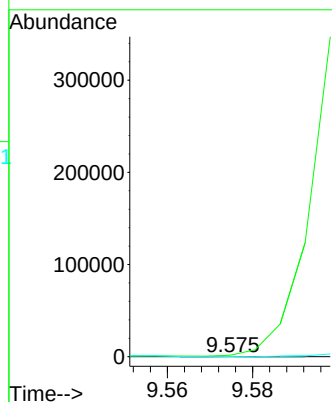
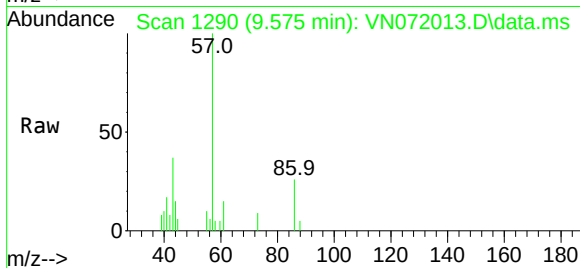
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.4#

58 0.0 54.2 81.4#



#50

Toluene-d8

Concen: 54.865 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN072013.D

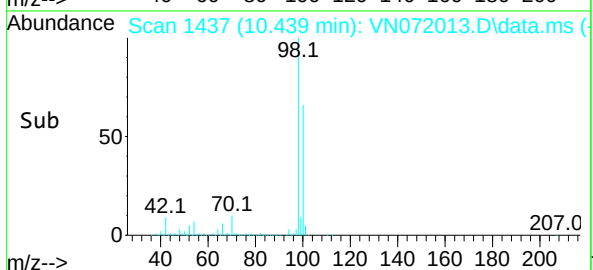
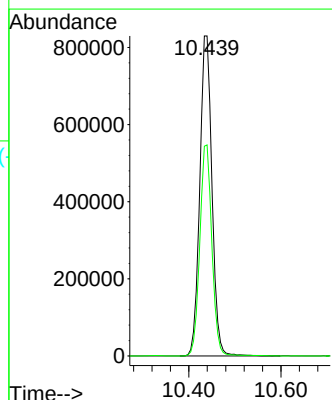
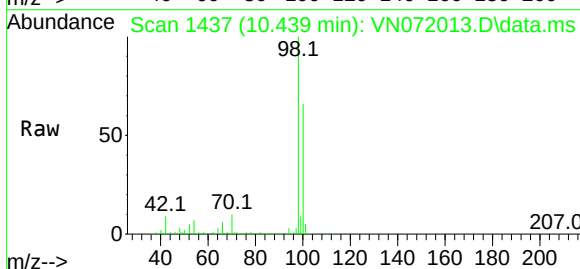
Acq: 15 Apr 2022 20:03

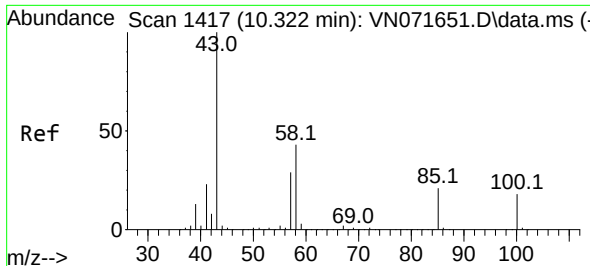
Tgt Ion: 98 Resp: 1528607

Ion Ratio Lower Upper

98 100

100 65.2 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 0.865 ug/l

RT: 10.322 min Scan# 1417

Delta R.T. -0.000 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

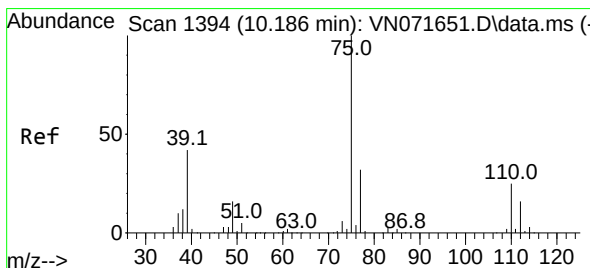
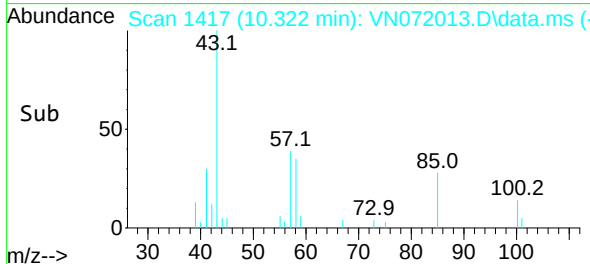
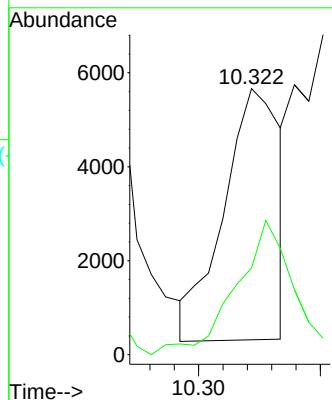
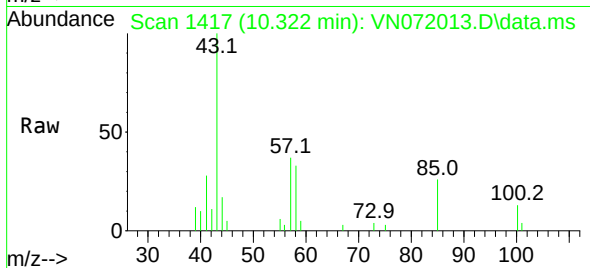
PB144101ZHE#01

Tgt Ion: 43 Resp: 8611

Ion Ratio Lower Upper

43 100

58 55.4 34.1 51.1#



#54

cis-1,3-Dichloropropene

Concen: 9.616 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.053 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

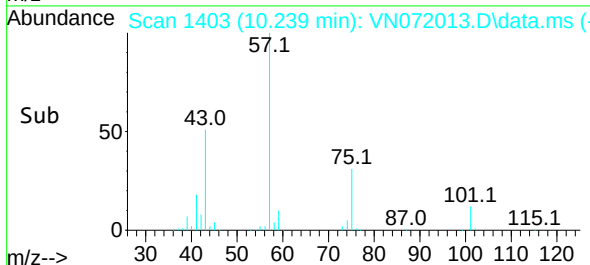
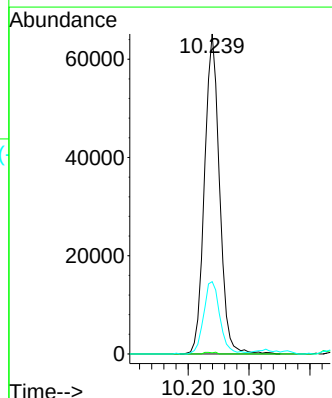
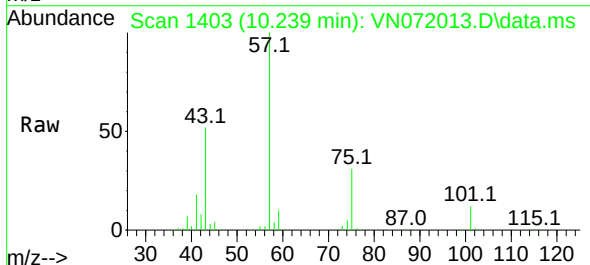
Tgt Ion: 75 Resp: 111705

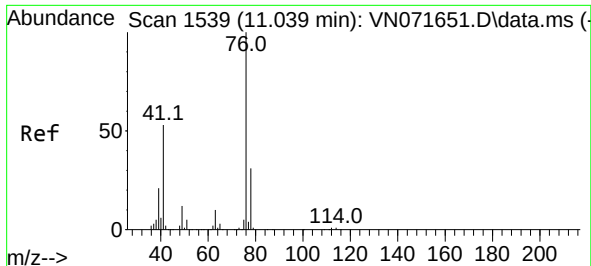
Ion Ratio Lower Upper

75 100

77 0.3 25.2 37.8#

39 22.6 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 5.647 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

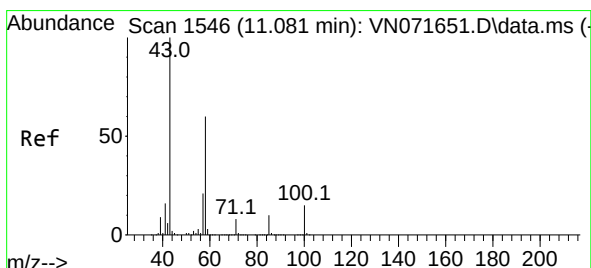
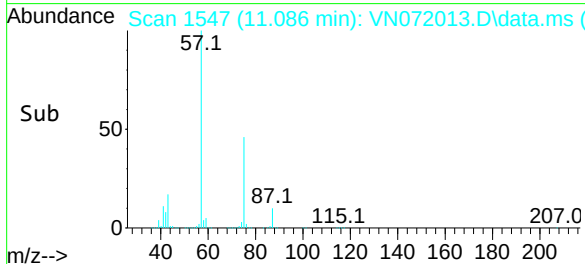
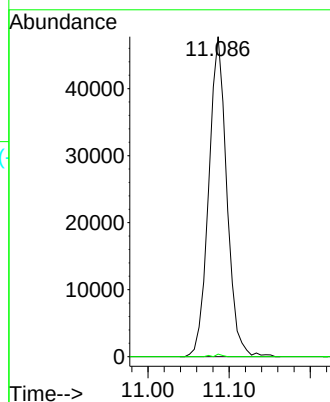
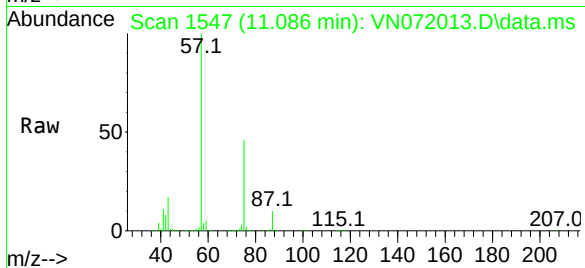
PB144101ZHE#01

Tgt Ion: 76 Resp: 73798

Ion Ratio Lower Upper

76 100

78 0.4 26.2 39.2#



#59

2-Hexanone

Concen: 120.832 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.005 min

Lab File: VN072013.D

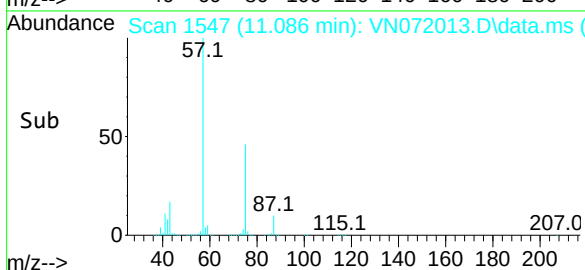
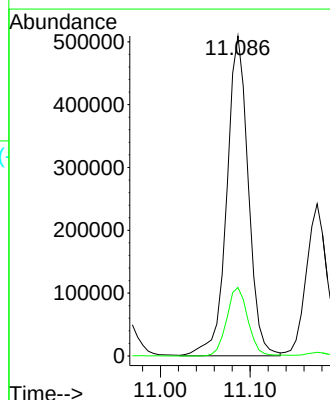
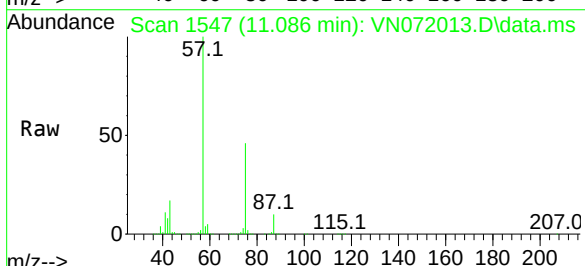
Acq: 15 Apr 2022 20:03

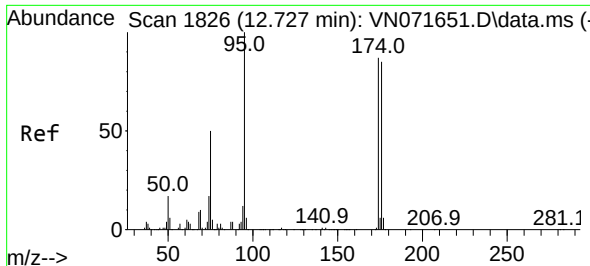
Tgt Ion: 43 Resp: 846918

Ion Ratio Lower Upper

43 100

58 21.2 29.7 89.1#

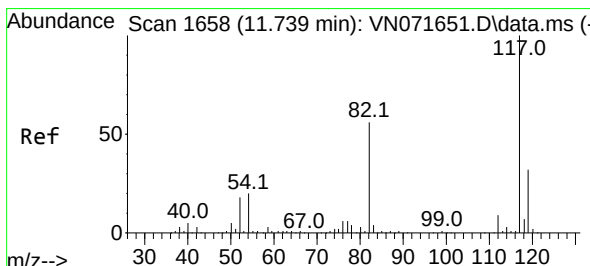
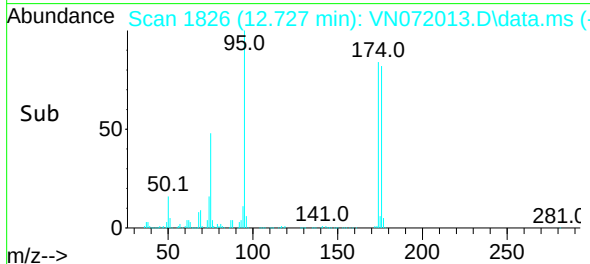
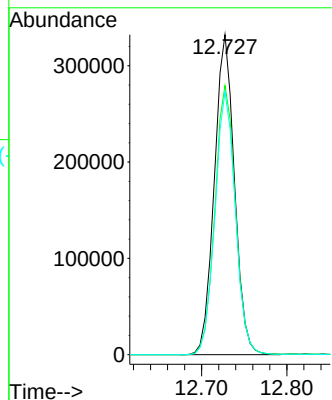
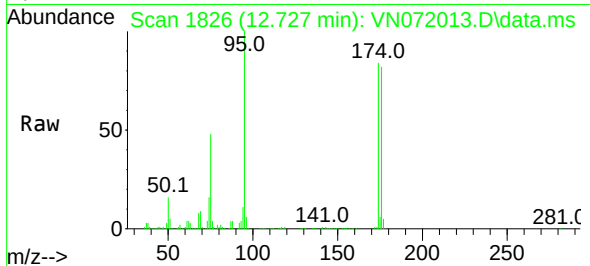




#62
4-Bromofluorobenzene
Concen: 60.537 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

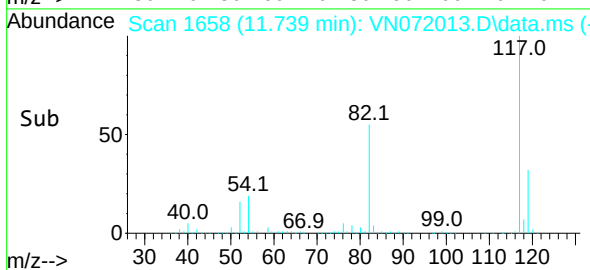
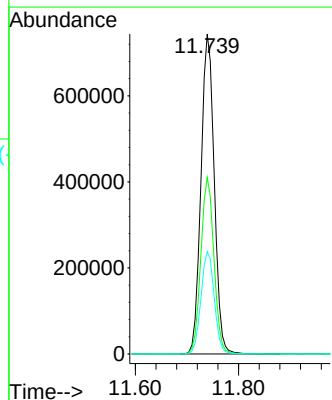
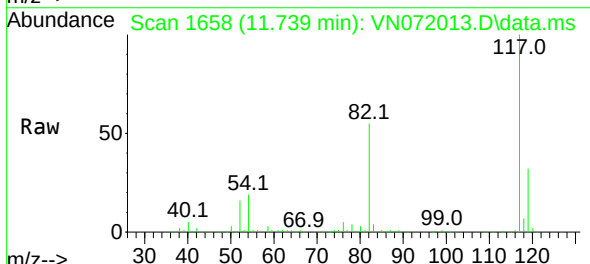
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

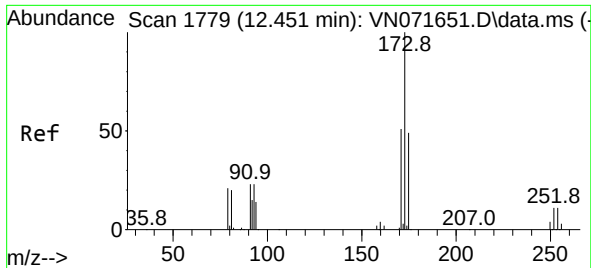
Tgt Ion: 95 Resp: 545485
Ion Ratio Lower Upper
95 100
174 85.7 0.0 167.6
176 83.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion: 117 Resp: 1324616
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 32.0 25.4 38.0

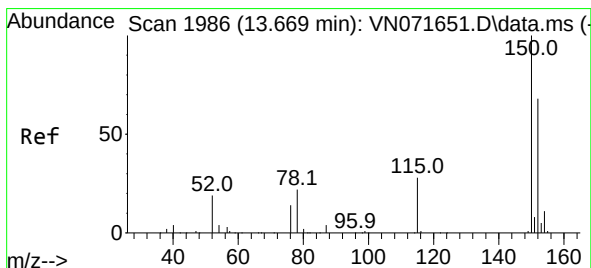
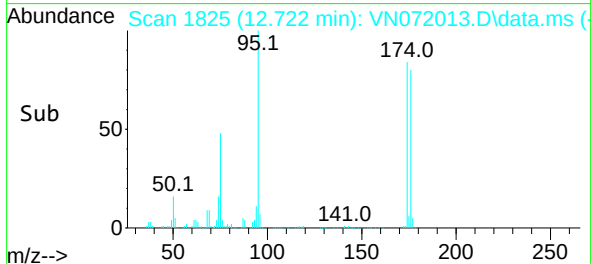
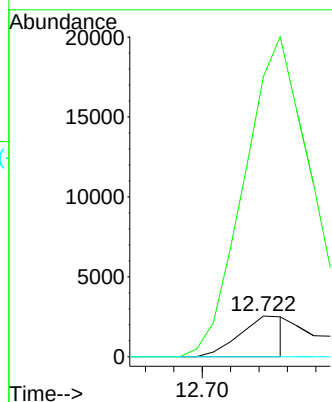
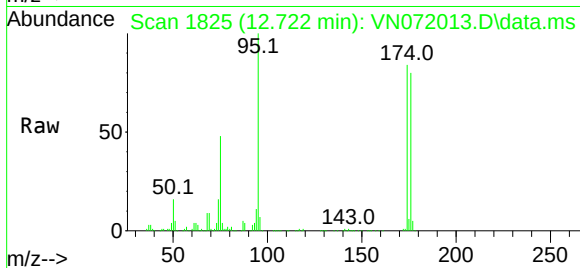




#71
Bromoform
Concen: 0.387 ug/l
RT: 12.722 min Scan# 1825
Delta R.T. 0.271 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

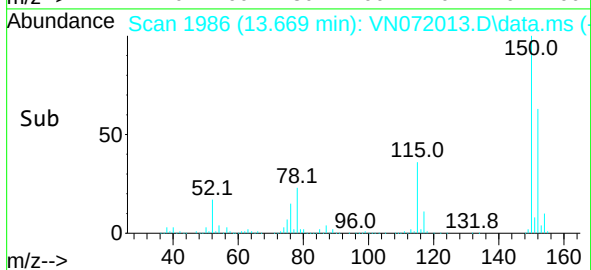
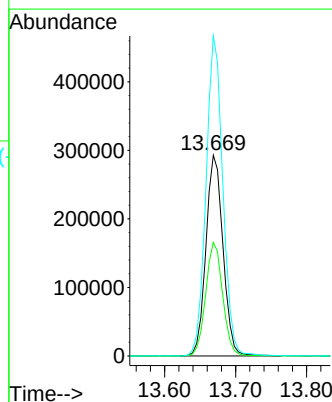
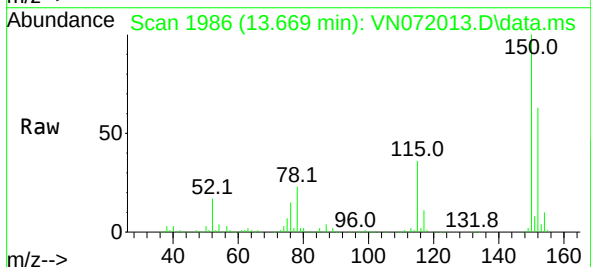
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

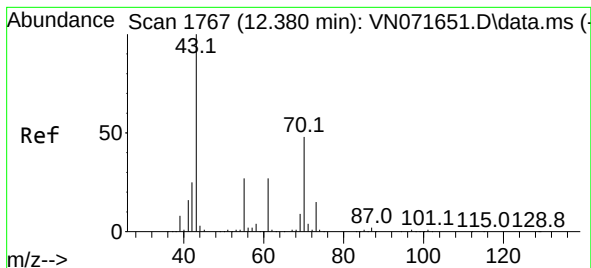
Tgt Ion:173 Resp: 2820
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. -0.000 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

Tgt Ion:152 Resp: 490489
Ion Ratio Lower Upper
152 100
115 56.3 28.9 86.7
150 156.7 0.0 356.2





#74

N-amy1 acetate

Concen: 2.471 ug/l

RT: 12.192 min Scan# 1

Delta R.T. -0.188 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

PB144101ZHE#01

Tgt Ion: 43 Resp: 29263

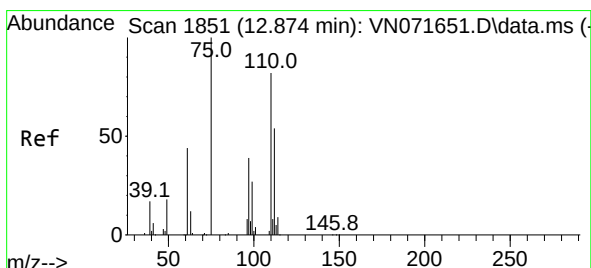
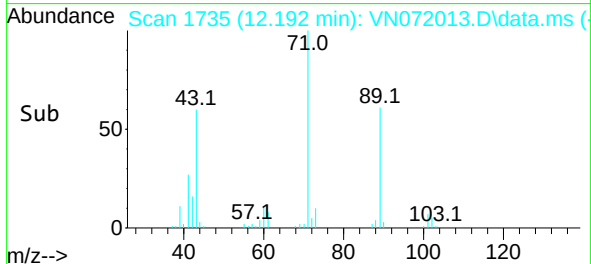
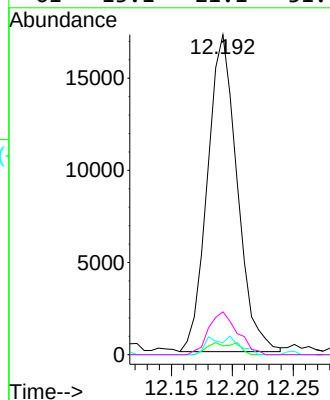
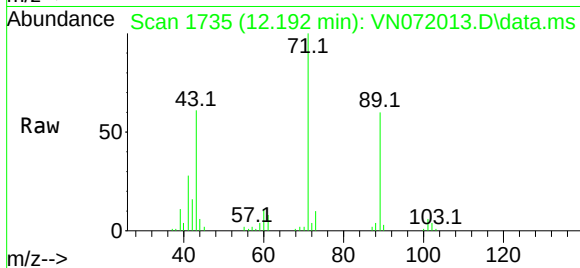
Ion Ratio Lower Upper

43 100

70 3.8 39.0 58.4#

55 5.8 21.1 31.7#

61 13.1 21.1 31.7#



#76

1,2,3-Trichloropropane

Concen: 22.910 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. -0.147 min

Lab File: VN072013.D

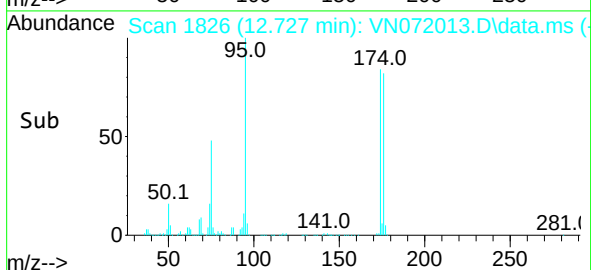
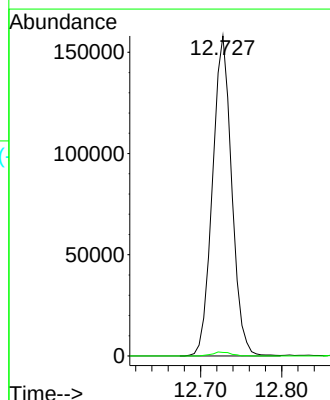
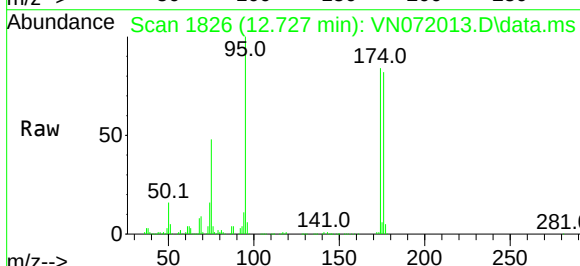
Acq: 15 Apr 2022 20:03

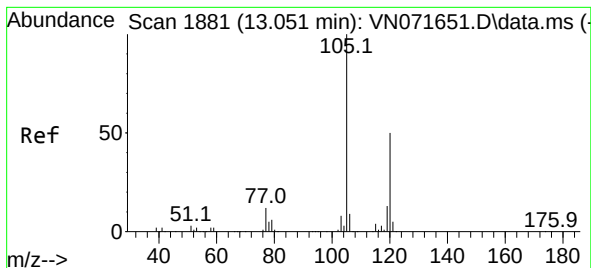
Tgt Ion: 75 Resp: 260318

Ion Ratio Lower Upper

75 100

77 1.2 98.5 295.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.338 ug/l

RT: 13.051 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

Instrument :

MSVOA_N

ClientSampleId :

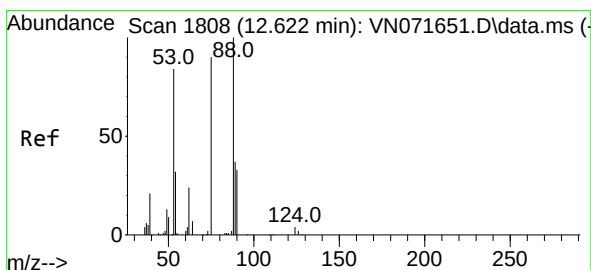
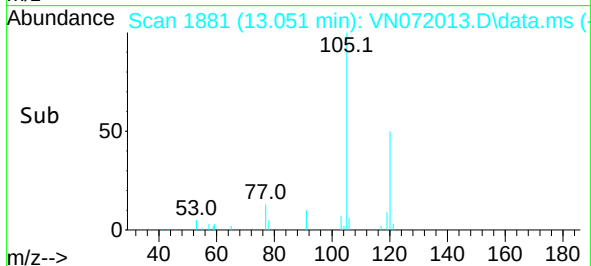
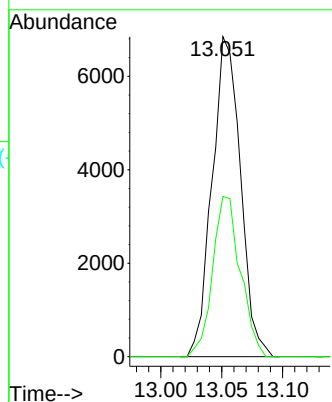
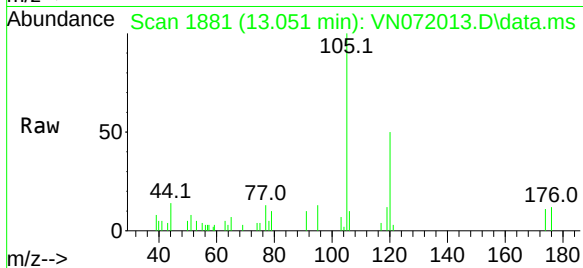
PB144101ZHE#01

Tgt Ion:105 Resp: 11077

Ion Ratio Lower Upper

105 100

120 49.1 24.9 74.7



#81

trans-1,4-Dichloro-2-butene

Concen: 70.998 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.105 min

Lab File: VN072013.D

Acq: 15 Apr 2022 20:03

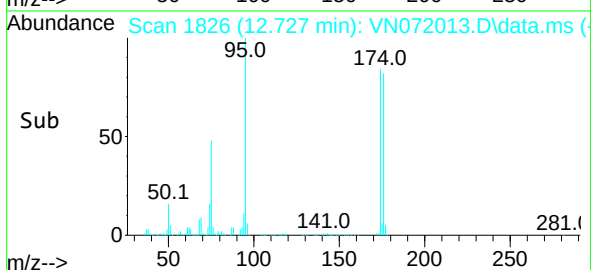
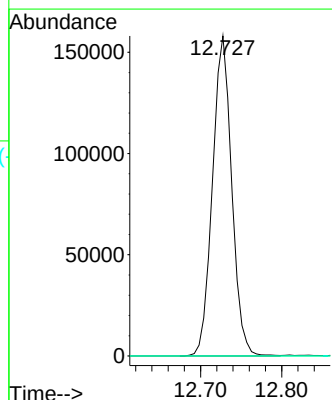
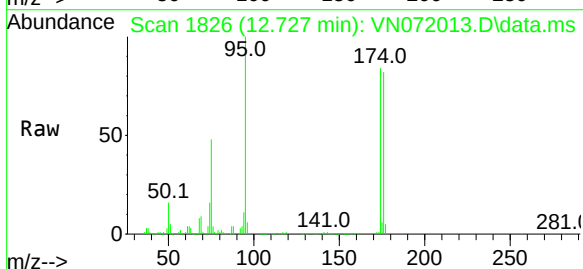
Tgt Ion: 75 Resp: 260318

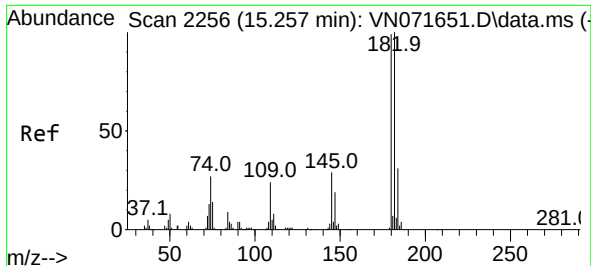
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 37.2 55.8#

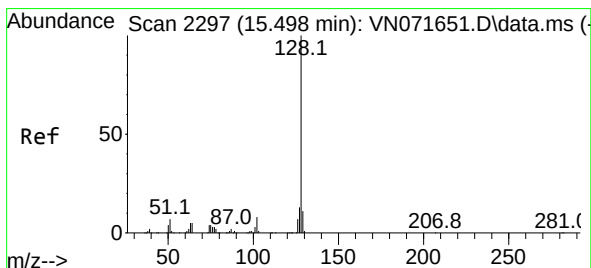
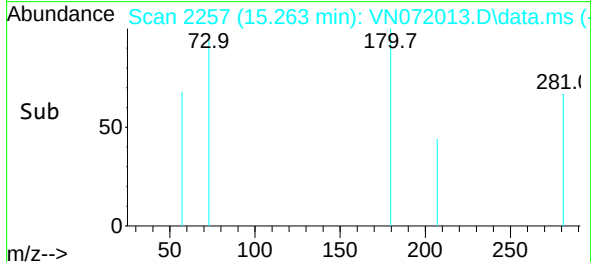
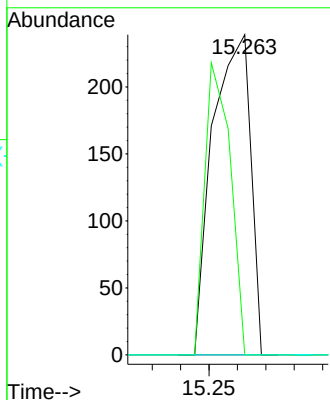
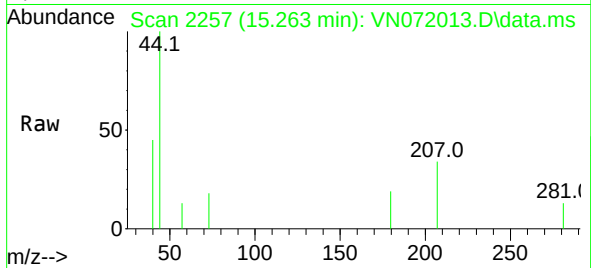




#93
1,2,4-Trichlorobenzene
Concen: 2.113 ug/l
RT: 15.263 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

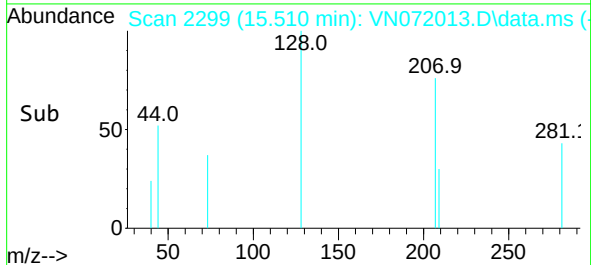
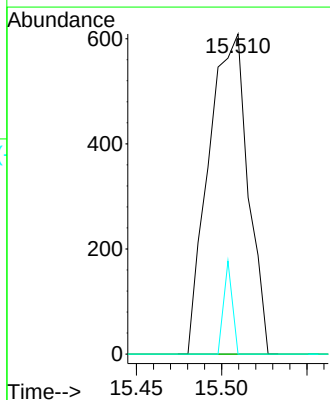
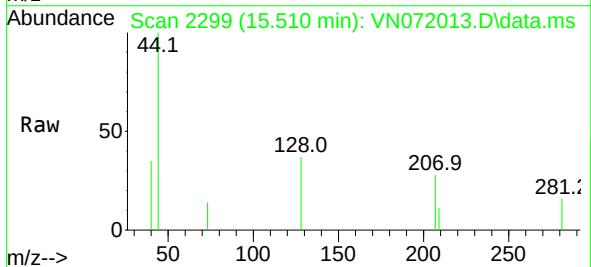
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#01

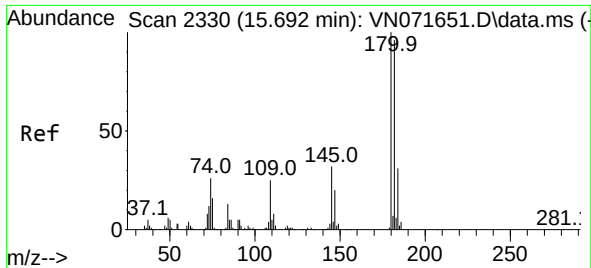
Tgt Ion:180 Resp: 221
Ion Ratio Lower Upper
180 100
182 62.0 47.5 142.5
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 3.843 ug/l
RT: 15.510 min Scan# 2299
Delta R.T. 0.012 min
Lab File: VN072013.D
Acq: 15 Apr 2022 20:03

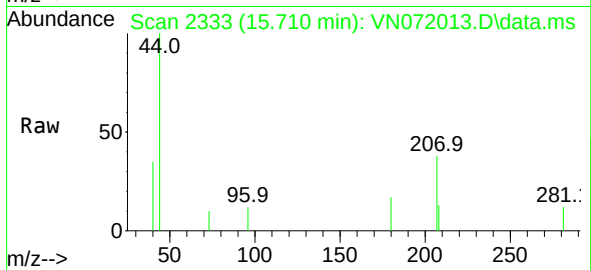
Tgt Ion:128 Resp: 978
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 6.3 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.464 ug/l
 RT: 15.710 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VN072013.D
 Acq: 15 Apr 2022 20:03

Instrument :
 MSVOA_N
 ClientSampleId :
 PB144101ZHE#01



Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.8	143.3#
145	0.0	15.5	46.5#

