

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041522\
 Data File : VN072023.D
 Acq On : 16 Apr 2022 00:03
 Operator : JC\MD
 Sample : PB144101ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB144101ZHE#11

Quant Time: Apr 16 01:12:37 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)

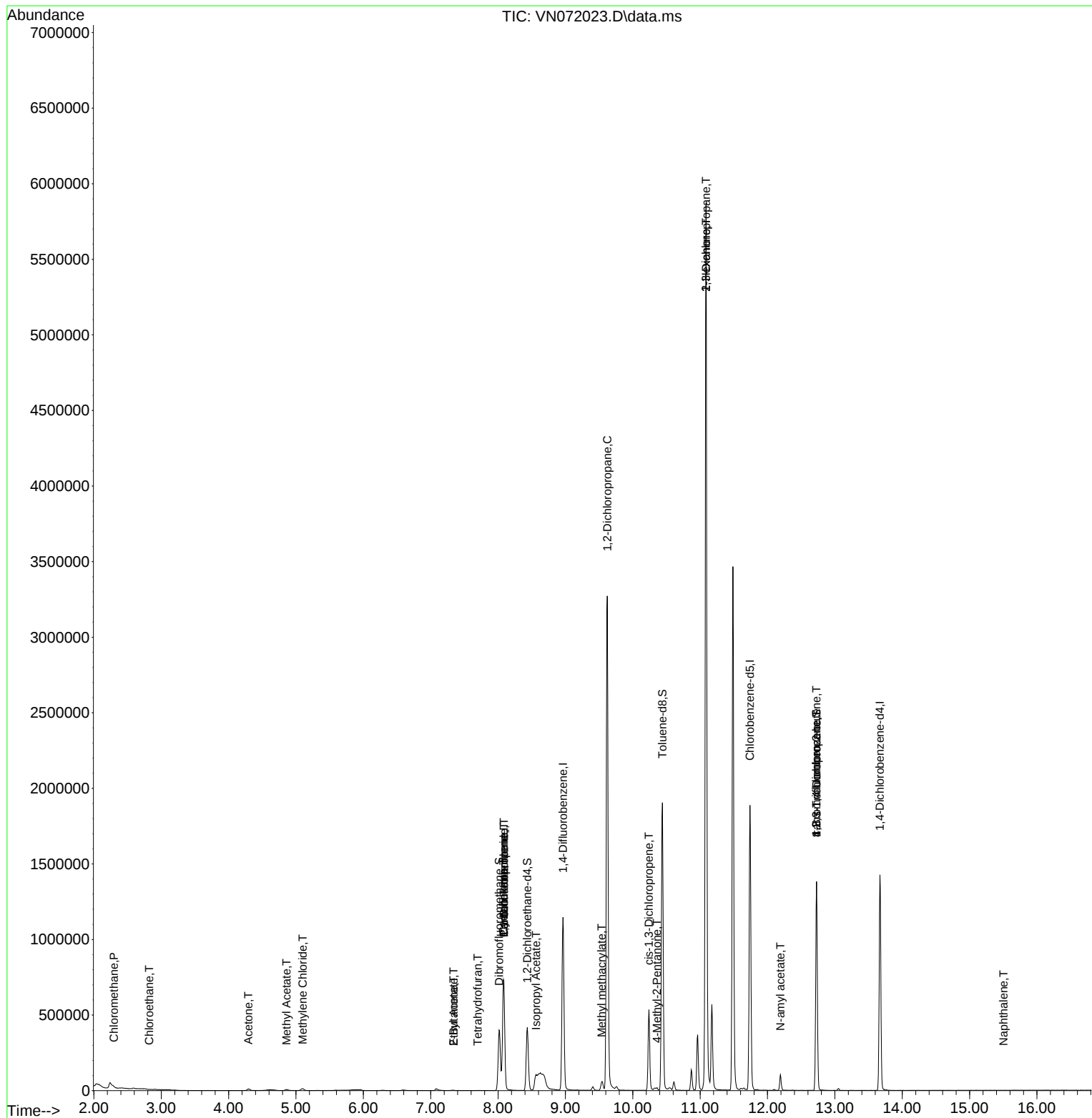
Internal Standards						
1) Pentafluorobenzene	8.086	168	624478	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1076351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1187361	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	429208	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	340355	47.741	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.480%		
35) Dibromofluoromethane	8.016	113	302689	47.790	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.580%		
50) Toluene-d8	10.439	98	1401700	54.099	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	108.200%		
62) 4-Bromofluorobenzene	12.727	95	483886	57.746	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	115.500%		
Target Compounds					Qvalue	
3) Chloromethane	2.298	50	1509	0.240	ug/l #	73
6) Chloroethane	2.822	64	5392	1.085	ug/l #	42
16) Acetone	4.292	43	16884	5.542	ug/l	94
18) Methyl Acetate	4.857	43	14934	0.480	ug/l	95
20) Methylene Chloride	5.098	84	11385	1.773	ug/l	94
25) 2-Butanone	7.339	43	3377	0.769	ug/l #	84
29) Tetrahydrofuran	7.698	42	712	0.250	ug/l #	43
31) Cyclohexane	8.080	56	10117	1.044	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	40373	4.565	ug/l #	49
37) Ethyl Acetate	7.339	43	3377	0.349	ug/l #	67
38) Carbon Tetrachloride	8.086	117	54816	6.324	ug/l #	18
43) Isopropyl Acetate	8.563	43	129198	8.024	ug/l #	73
45) 1,2-Dichloropropane	9.621	63	4399	0.630	ug/l #	44
48) Methyl methacrylate	9.539	41	15093	2.259	ug/l #	10
49) 1,4-Dioxane	9.633	88	696	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.357	43	21096	2.279	ug/l #	33
54) cis-1,3-Dichloropropene	10.239	75	108922	10.083	ug/l #	55
57) 1,3-Dichloropropane	11.086	76	66933	5.507	ug/l #	43
59) 2-Hexanone	11.086	43	784875	120.415	ug/l #	49
74) N-amyl acetate	12.192	43	27277	2.632	ug/l #	51
76) 1,2,3-Trichloropropane	12.727	75	232495	23.383	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	232495	72.463	ug/l #	10
95) Naphthalene	15.503	128	117	3.808	ug/l #	69

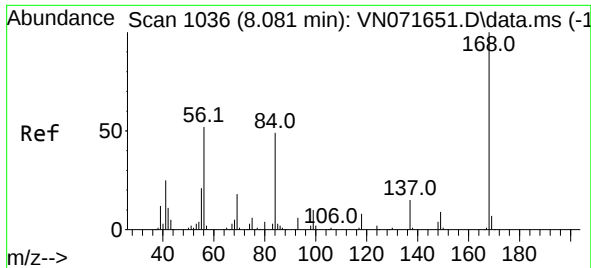
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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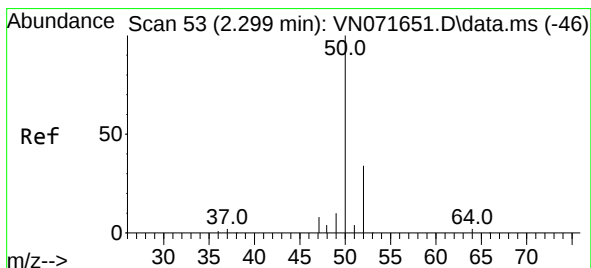
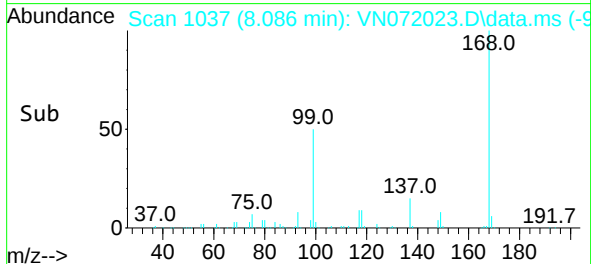
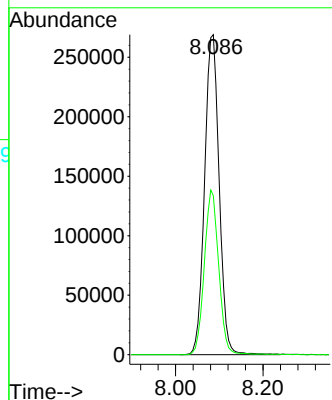
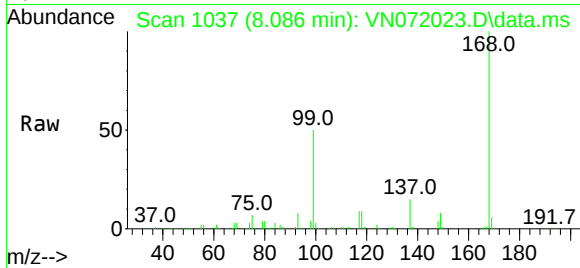




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

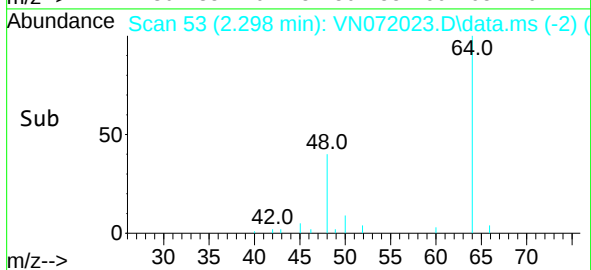
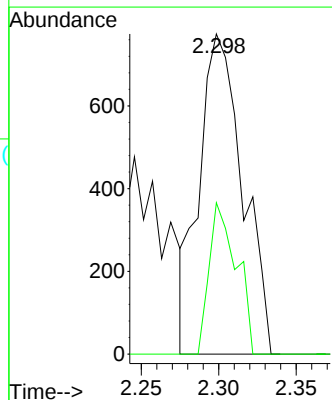
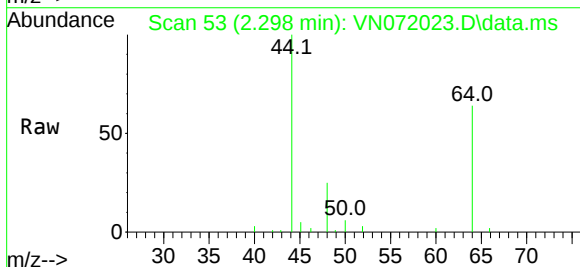
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

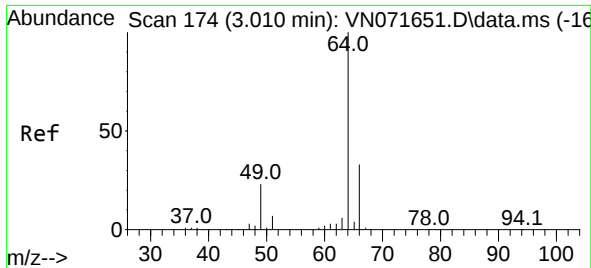
Tgt Ion:168 Resp: 624478
Ion Ratio Lower Upper
168 100
99 49.7 42.3 63.5



#3
Chloromethane
Concen: 0.240 ug/l
RT: 2.298 min Scan# 53
Delta R.T. -0.001 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 50 Resp: 1509
Ion Ratio Lower Upper
50 100
52 47.3 25.7 38.5#

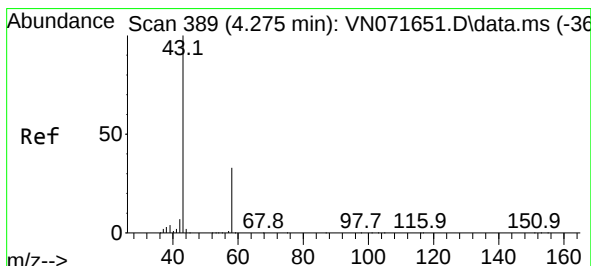
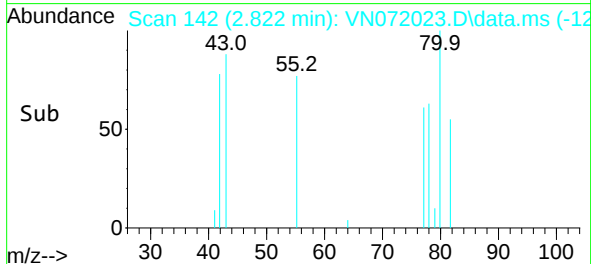
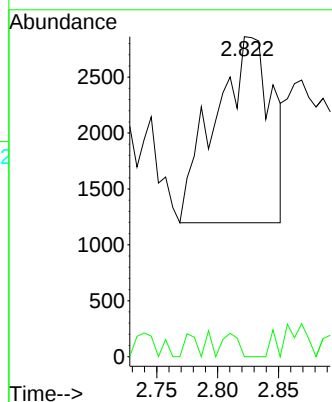
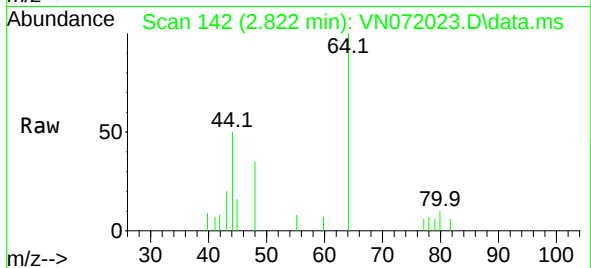




#6
Chloroethane
Concen: 1.085 ug/l
RT: 2.822 min Scan# 14
Delta R.T. -0.188 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

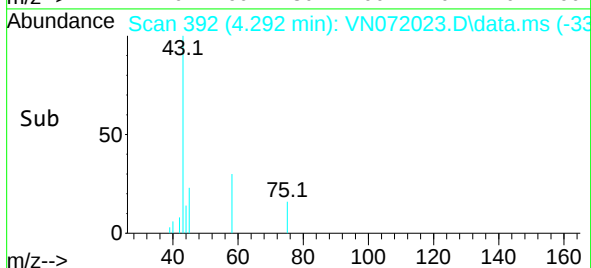
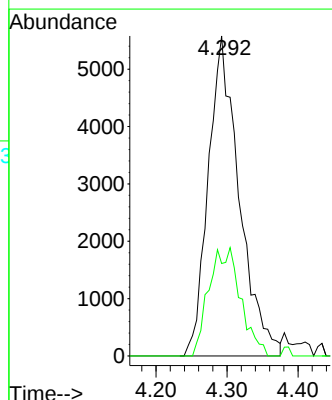
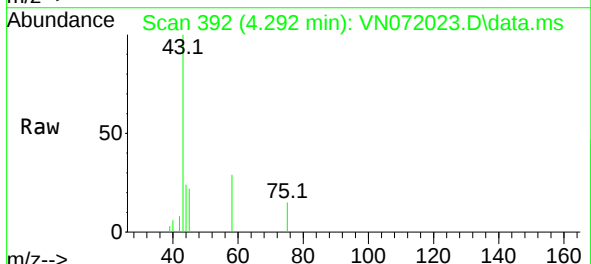
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

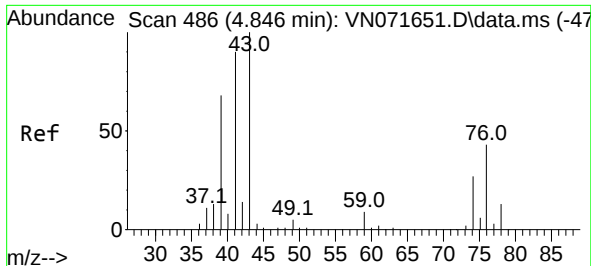
Tgt Ion: 64 Resp: 5392
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#16
Acetone
Concen: 5.542 ug/l
RT: 4.292 min Scan# 392
Delta R.T. 0.017 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 43 Resp: 16884
Ion Ratio Lower Upper
43 100
58 28.9 26.0 39.0

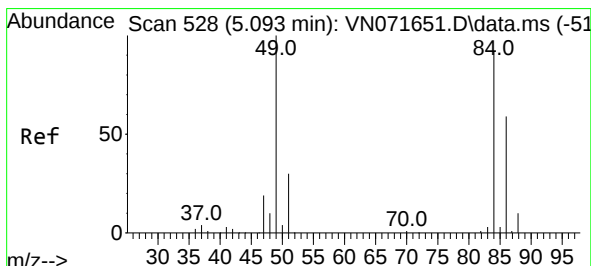
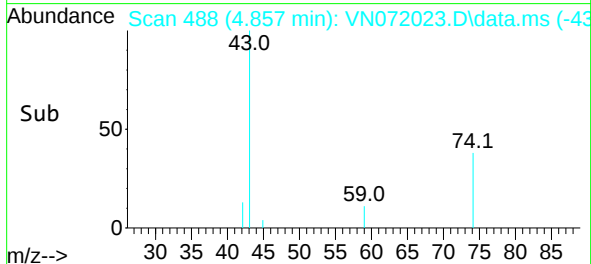
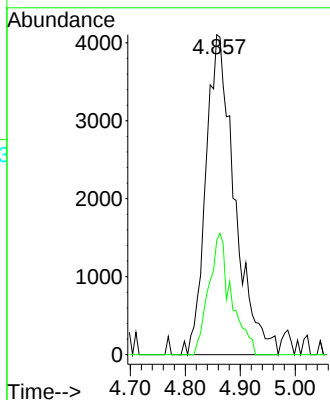
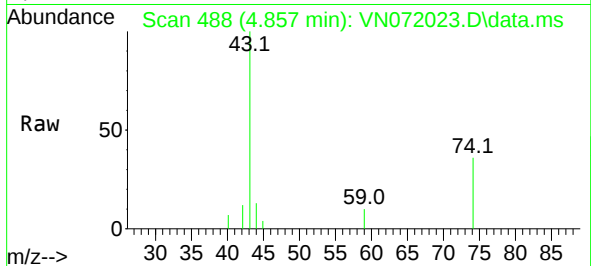




#18
Methyl Acetate
Concen: 0.480 ug/l
RT: 4.857 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

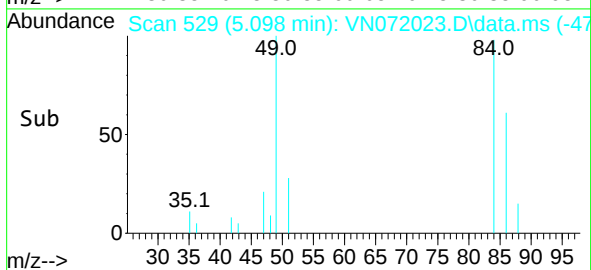
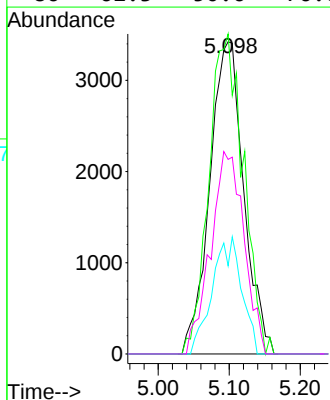
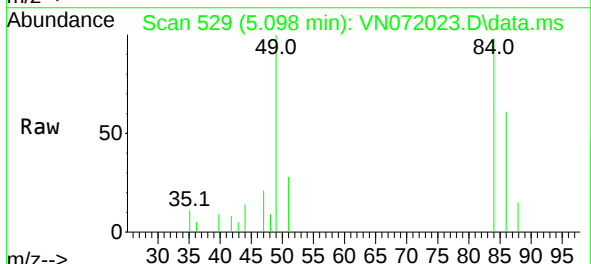
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

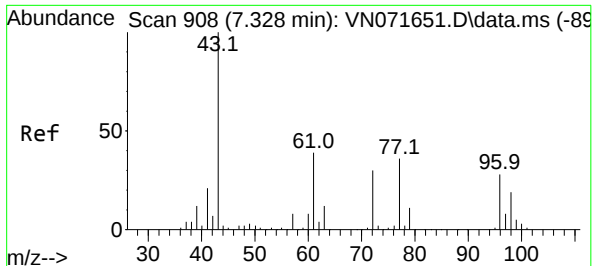
Tgt Ion: 43 Resp: 14934
Ion Ratio Lower Upper
43 100
74 29.7 21.6 32.4



#20
Methylene Chloride
Concen: 1.773 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 84 Resp: 11385
Ion Ratio Lower Upper
84 100
49 102.5 88.3 132.5
51 28.2 28.2 42.2
86 62.3 50.6 76.0





#25

2-Butanone

Concen: 0.769 ug/l

RT: 7.339 min Scan# 91

Delta R.T. 0.011 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

Instrument :

MSVOA_N

ClientSampleId :

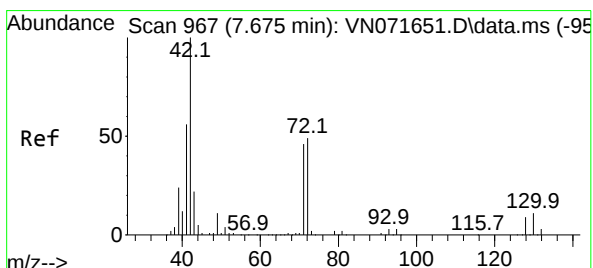
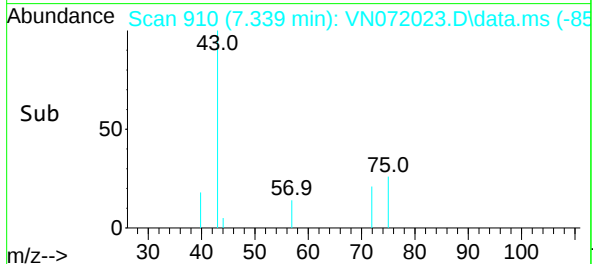
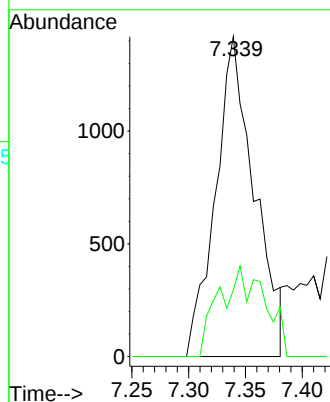
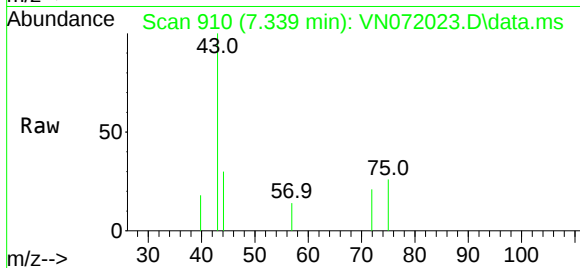
PB144101ZHE#11

Tgt Ion: 43 Resp: 3377

Ion Ratio Lower Upper

43 100

72 20.8 23.7 35.5#



#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 7.698 min Scan# 971

Delta R.T. 0.023 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

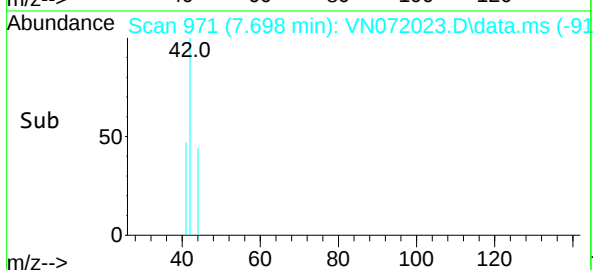
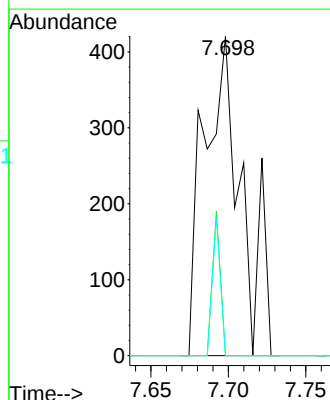
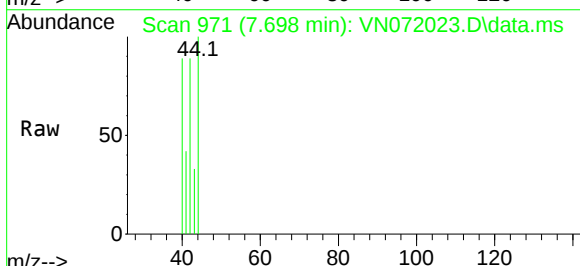
Tgt Ion: 42 Resp: 712

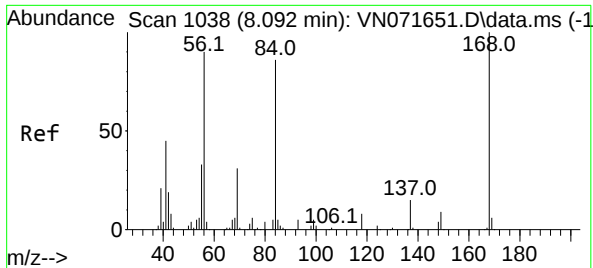
Ion Ratio Lower Upper

42 100

72 9.4 39.7 59.5#

71 9.1 36.6 55.0#

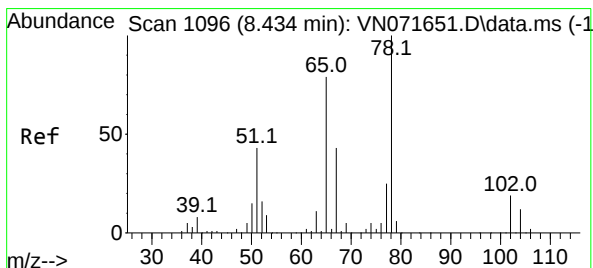
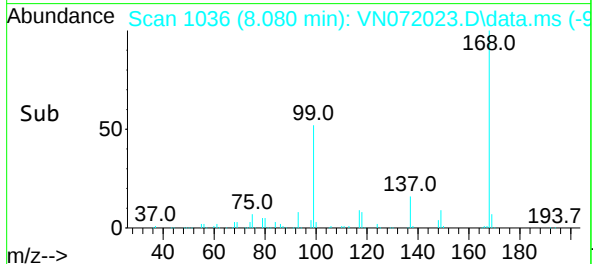
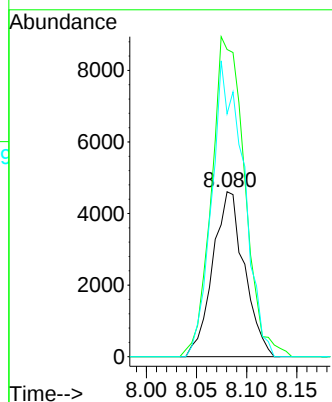
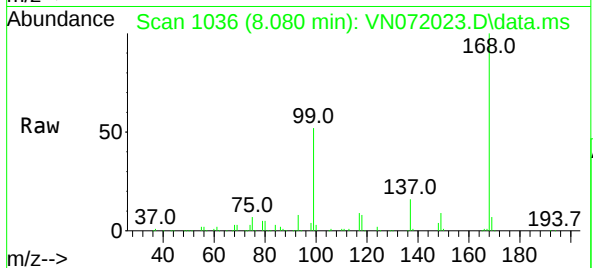




#31
Cyclohexane
Concen: 1.044 ug/l
RT: 8.080 min Scan# 1036
Delta R.T. -0.012 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

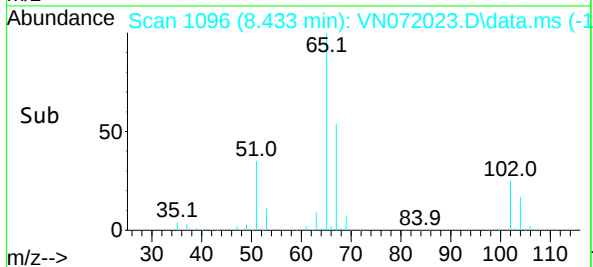
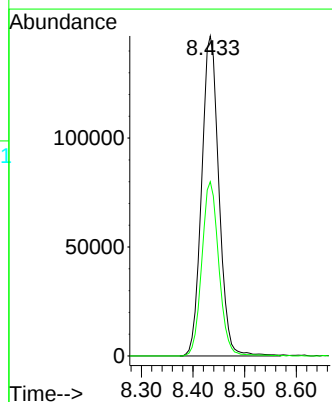
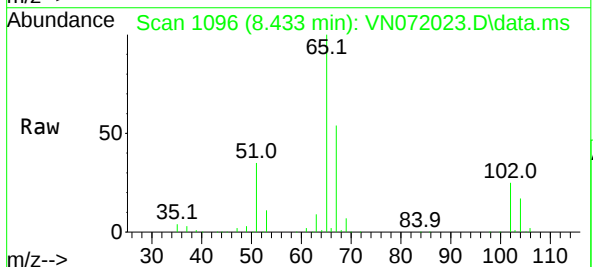
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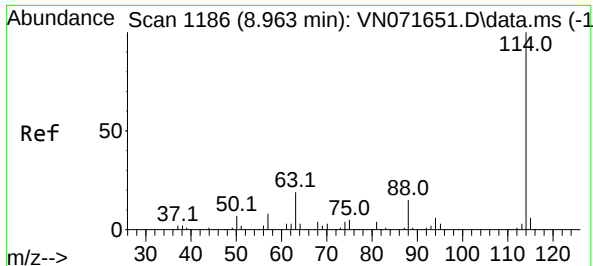
Tgt Ion: 56 Resp: 10117
Ion Ratio Lower Upper
56 100
69 186.3 27.8 41.8#
84 147.3 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.741 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 65 Resp: 340355
Ion Ratio Lower Upper
65 100
67 53.8 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: VN072023.D

Acq: 16 Apr 2022 00:03

Instrument :

MSVOA_N

ClientSampleId :

PB144101ZHE#11

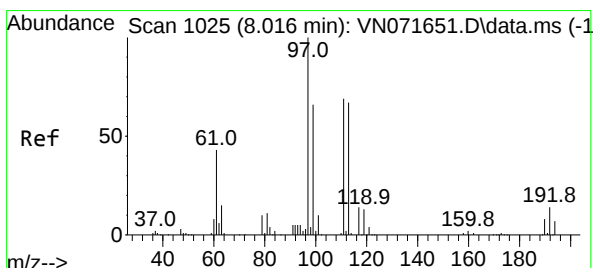
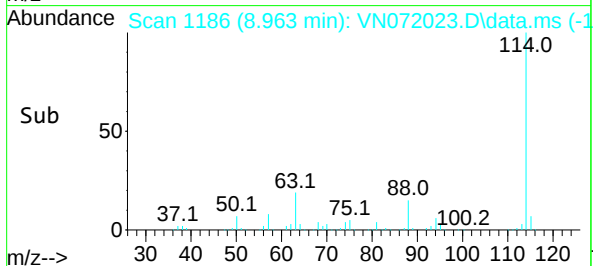
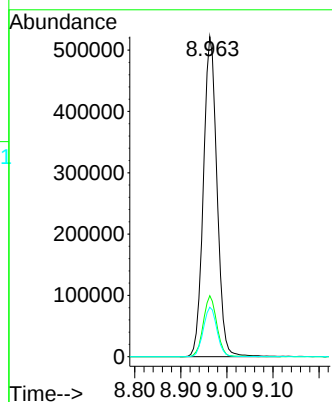
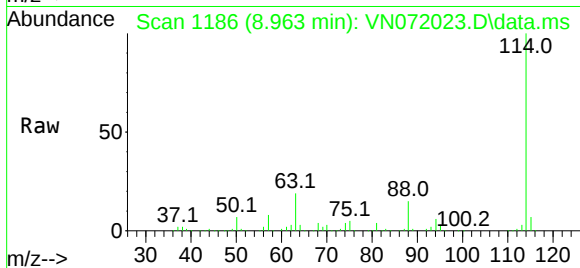
Tgt Ion:114 Resp: 1076351

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 15.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.790 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

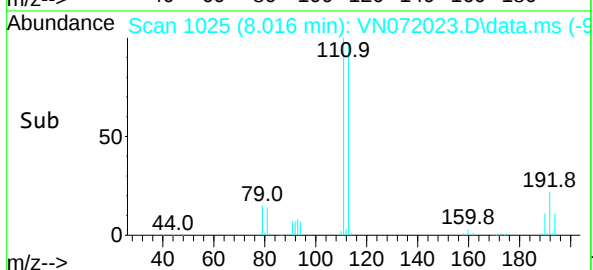
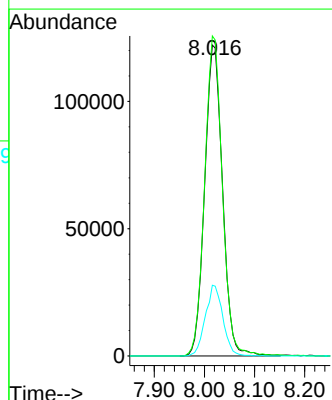
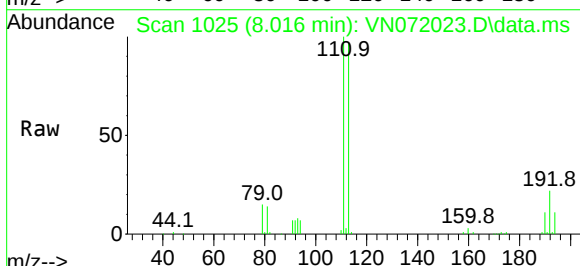
Tgt Ion:113 Resp: 302689

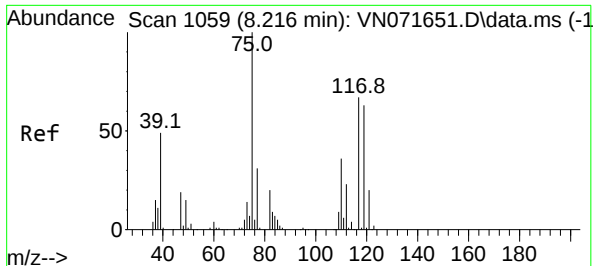
Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

192 22.3 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.565 ug/l

RT: 8.086 min Scan# 1

Delta R.T. -0.130 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

Instrument :

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ClientSampleId :

PB144101ZHE#11

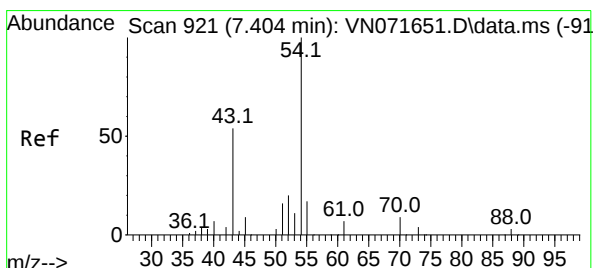
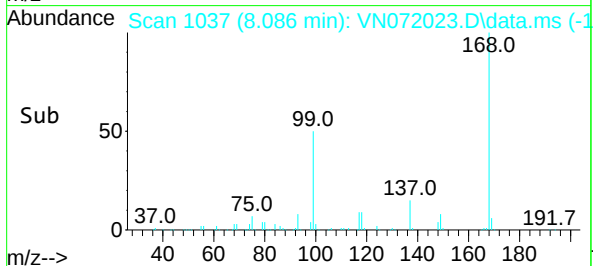
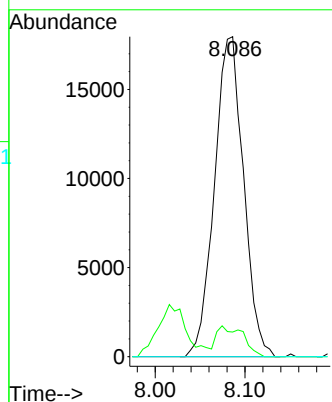
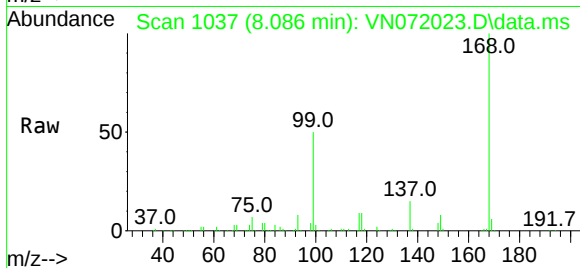
Tgt Ion: 75 Resp: 40373

Ion Ratio Lower Upper

75 100

110 9.1 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.349 ug/l

RT: 7.339 min Scan# 910

Delta R.T. -0.065 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

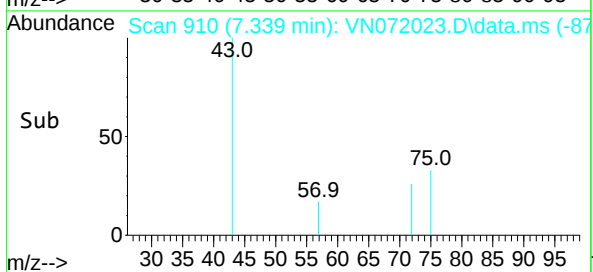
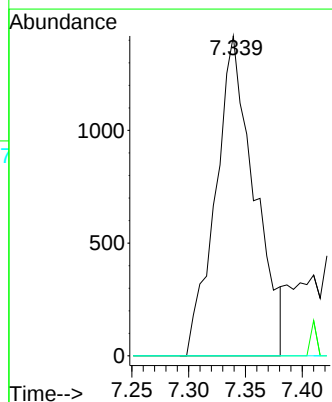
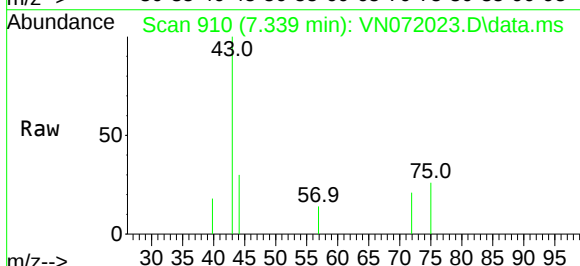
Tgt Ion: 43 Resp: 3377

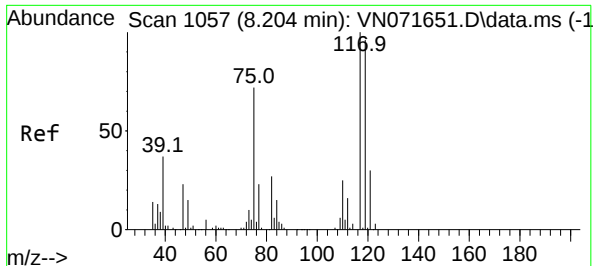
Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 9.3 13.9#

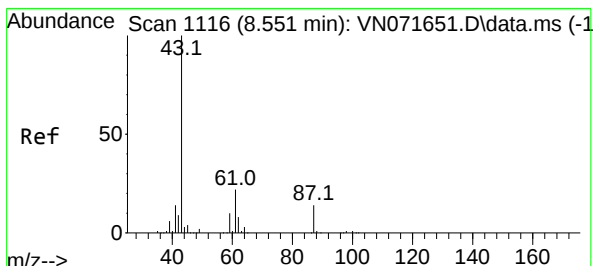
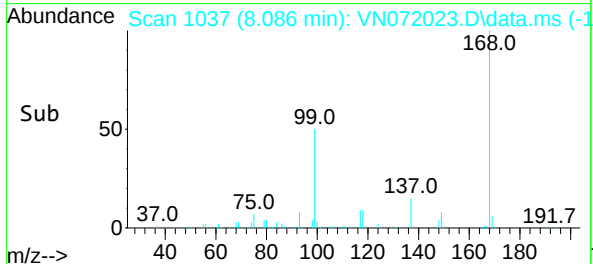
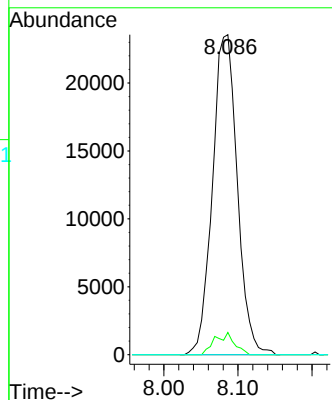
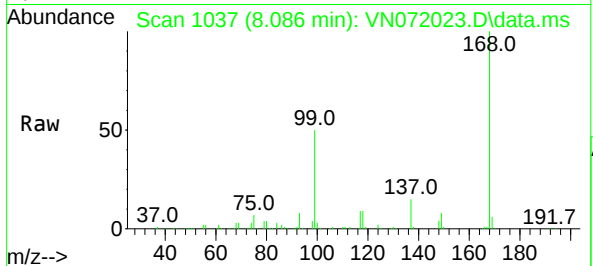




#38
Carbon Tetrachloride
Concen: 6.324 ug/l
RT: 8.086 min Scan# 1117
Delta R.T. -0.118 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

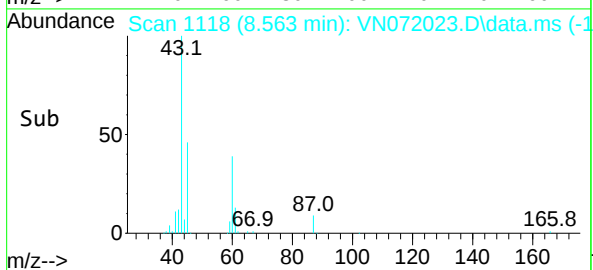
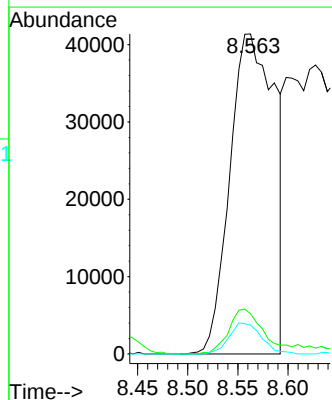
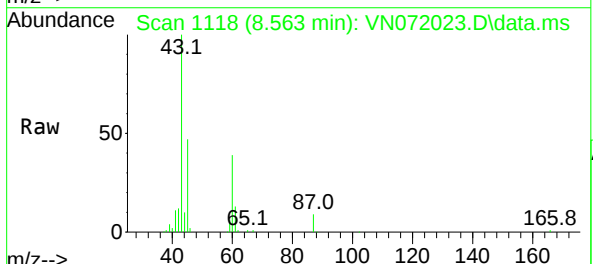
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

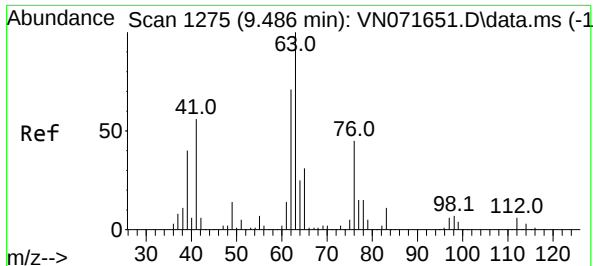
Tgt Ion:117 Resp: 54816
Ion Ratio Lower Upper
117 100
119 6.9 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 8.024 ug/l
RT: 8.563 min Scan# 1118
Delta R.T. 0.012 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 43 Resp: 129198
Ion Ratio Lower Upper
43 100
61 10.9 21.9 32.9#
87 6.9 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.630 ug/l

RT: 9.621 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

Instrument :

MSVOA_N

ClientSampleId :

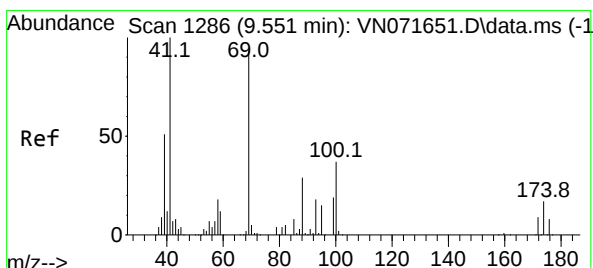
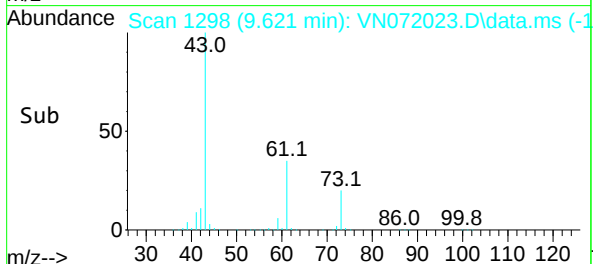
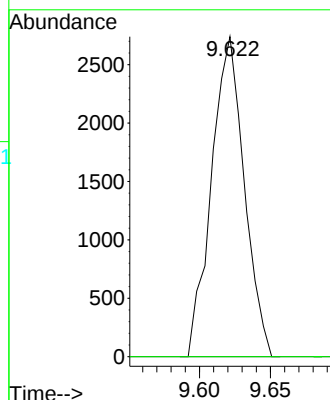
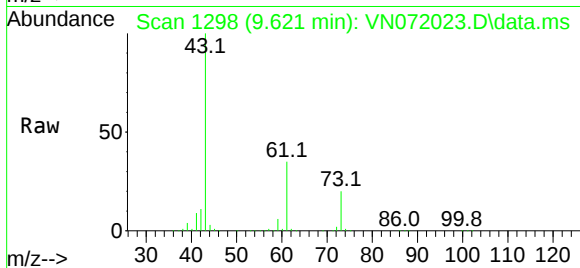
PB144101ZHE#11

Tgt Ion: 63 Resp: 4399

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.259 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.012 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

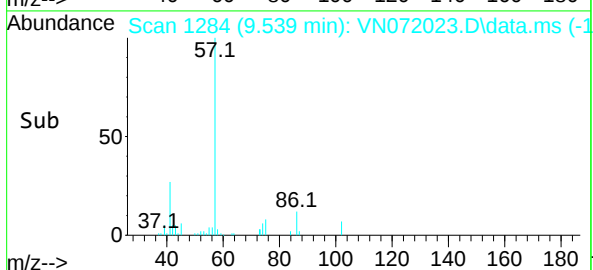
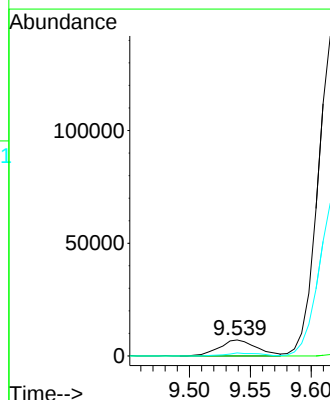
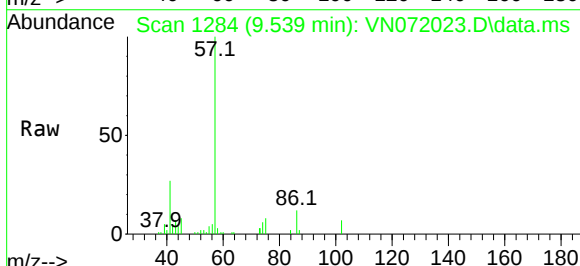
Tgt Ion: 41 Resp: 15093

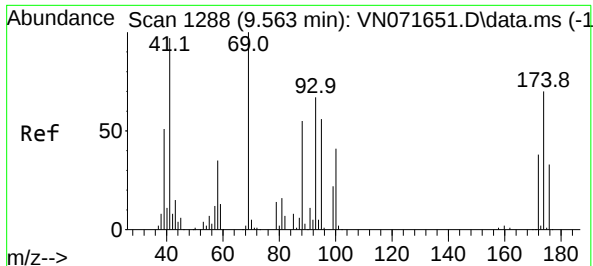
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#

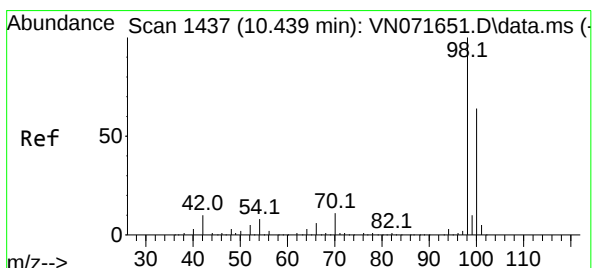
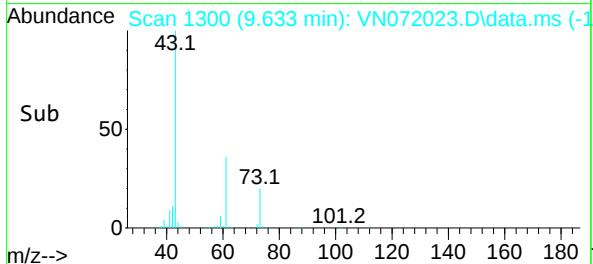
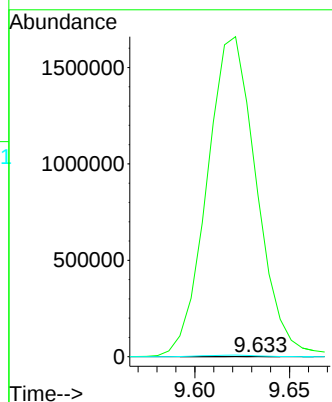
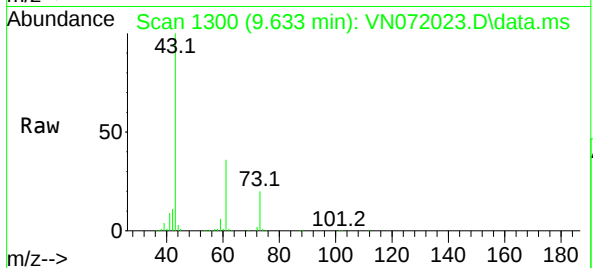




#49
1,4-Dioxane
Concen: Below Cal
RT: 9.633 min Scan# 11
Delta R.T. 0.070 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

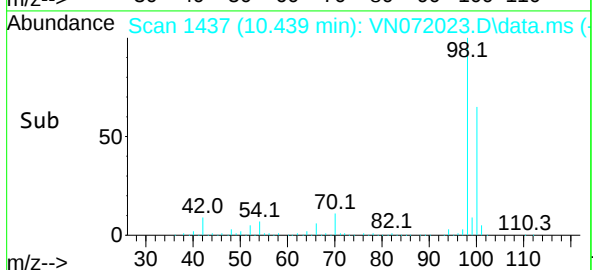
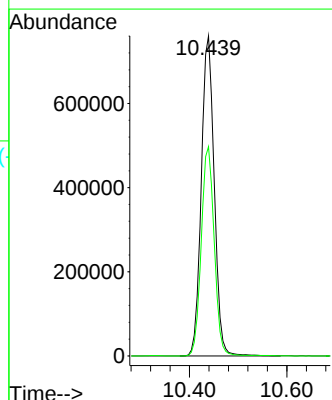
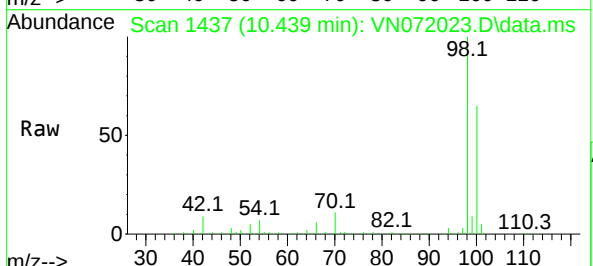
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

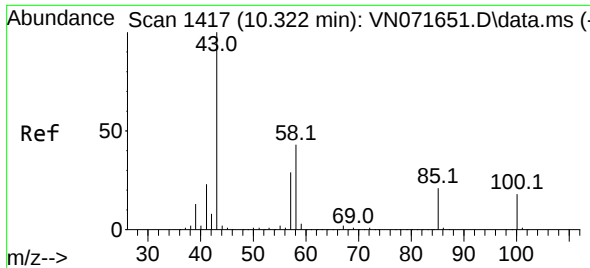
Tgt Ion: 88 Resp: 696
Ion Ratio Lower Upper
88 100
43 441482.3 20.2 30.4#
58 2307.6 54.2 81.4#



#50
Toluene-d8
Concen: 54.099 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 98 Resp: 1401700
Ion Ratio Lower Upper
98 100
100 65.7 52.6 78.8

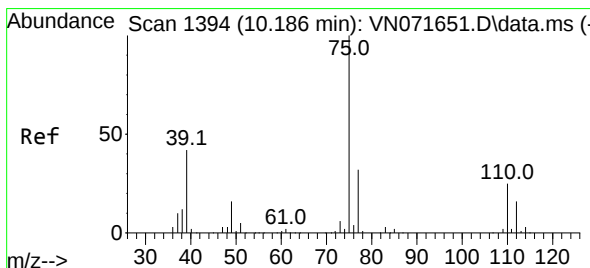
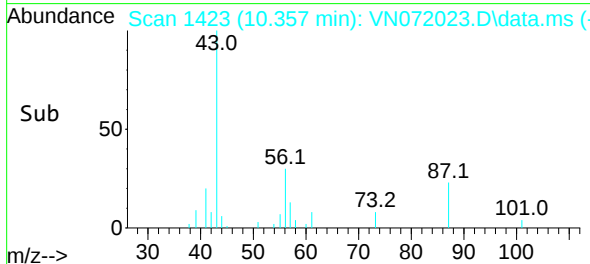
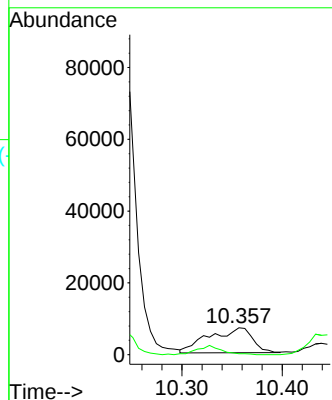
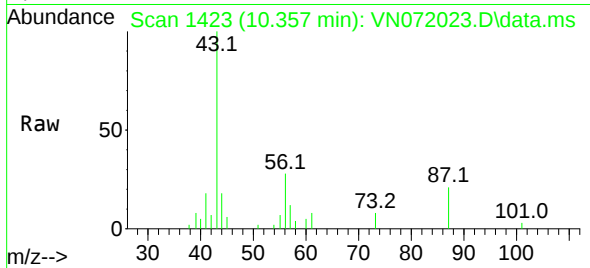




#51
4-Methyl-2-Pentanone
Concen: 2.279 ug/l
RT: 10.357 min Scan# 1417
Delta R.T. 0.035 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

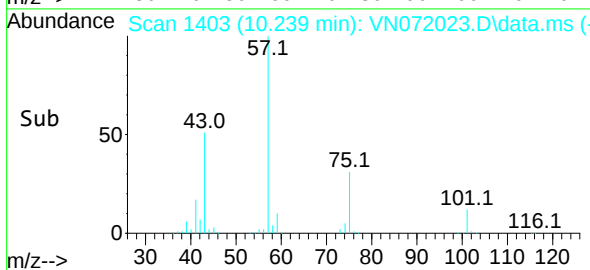
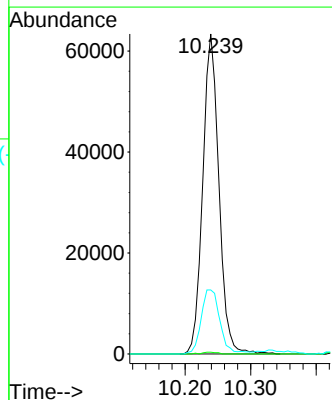
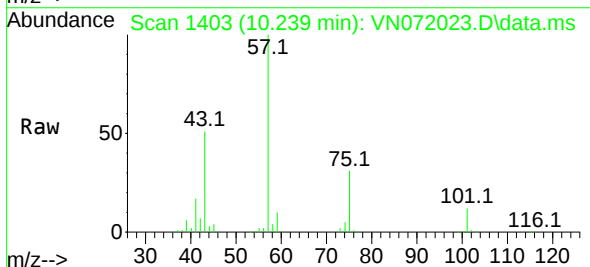
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

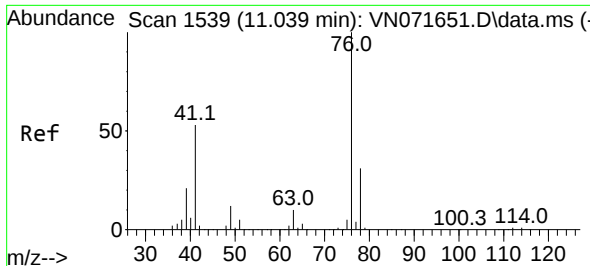
Tgt Ion: 43 Resp: 21096
Ion Ratio Lower Upper
43 100
58 0.0 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 10.083 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 75 Resp: 108922
Ion Ratio Lower Upper
75 100
77 0.6 25.2 37.8#
39 20.0 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 5.507 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN072023.D

Acq: 16 Apr 2022 00:03

Instrument :

MSVOA_N

ClientSampleId :

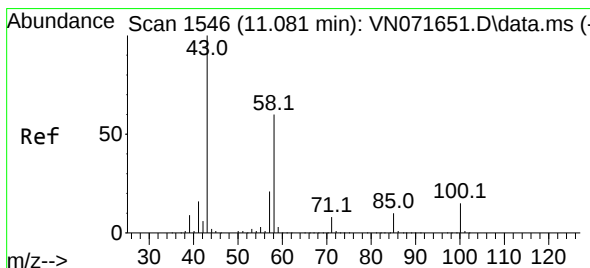
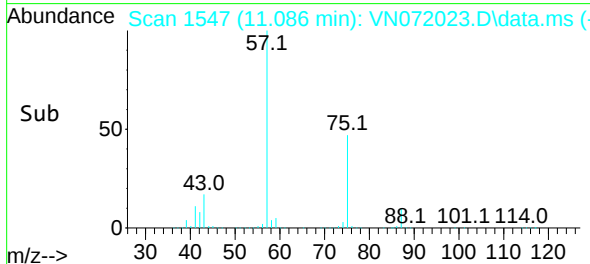
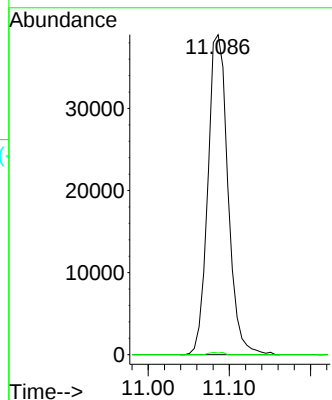
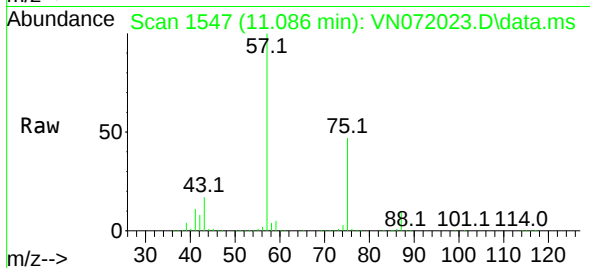
PB144101ZHE#11

Tgt Ion: 76 Resp: 66933

Ion Ratio Lower Upper

76 100

78 0.5 26.2 39.2#



#59

2-Hexanone

Concen: 120.415 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.005 min

Lab File: VN072023.D

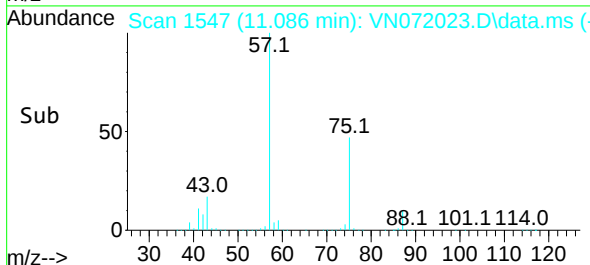
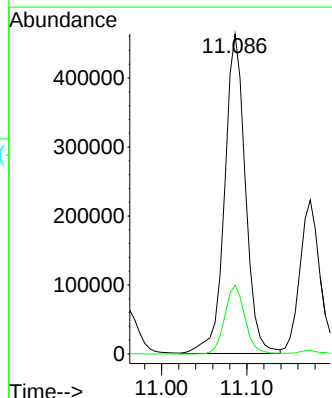
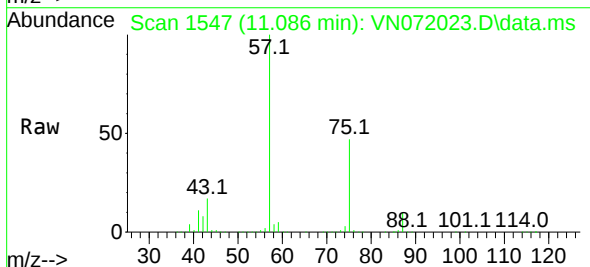
Acq: 16 Apr 2022 00:03

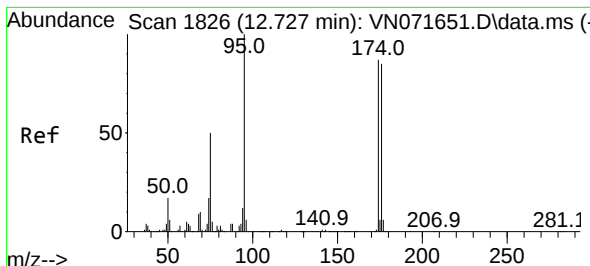
Tgt Ion: 43 Resp: 784875

Ion Ratio Lower Upper

43 100

58 20.9 29.7 89.1#

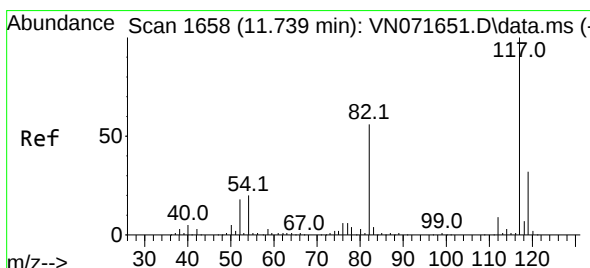
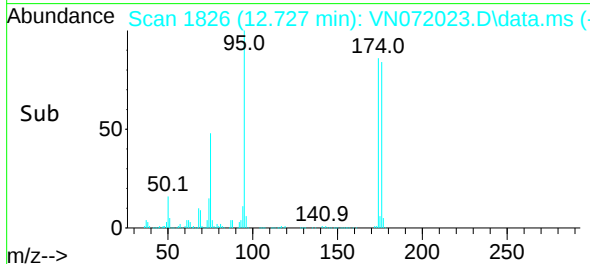
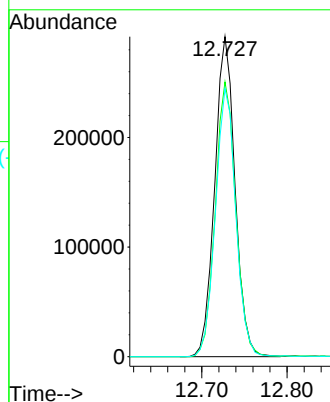
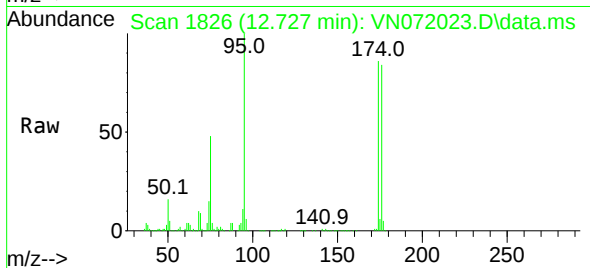




#62
4-Bromofluorobenzene
Concen: 57.746 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

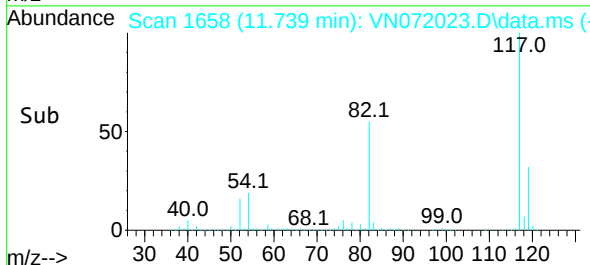
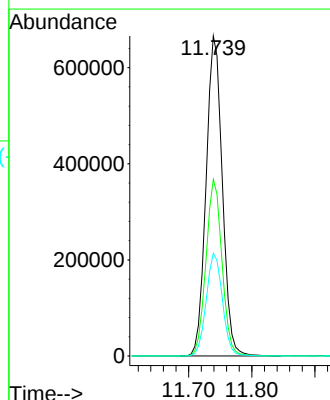
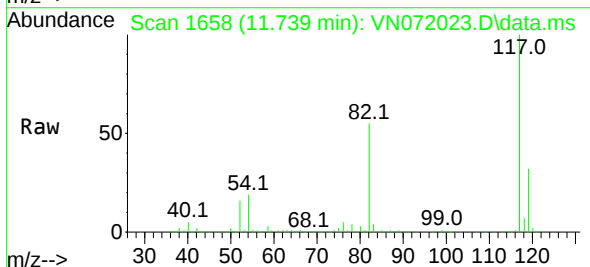
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

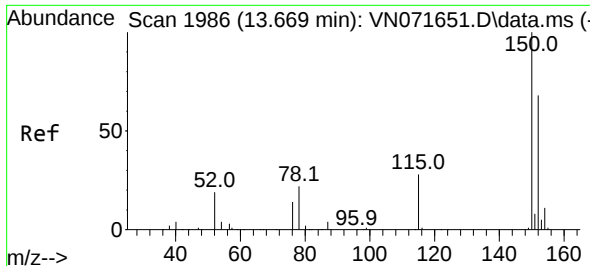
Tgt Ion: 95 Resp: 483886
Ion Ratio Lower Upper
95 100
174 86.6 0.0 167.6
176 84.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

Tgt Ion: 117 Resp: 1187361
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 32.1 25.4 38.0

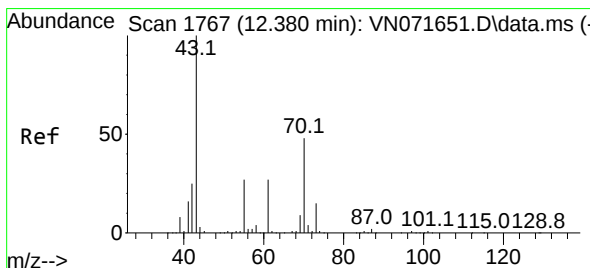
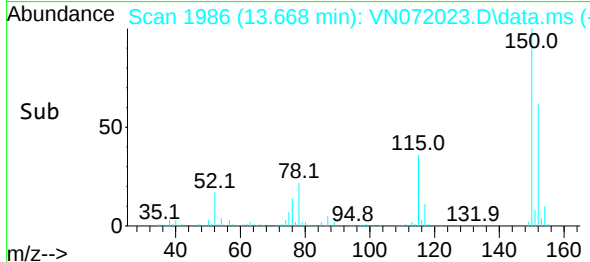
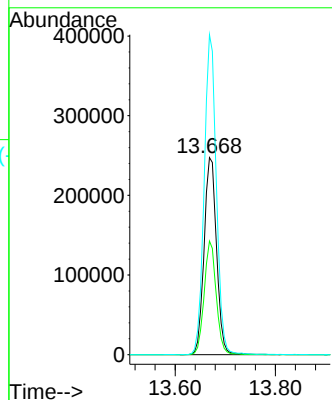
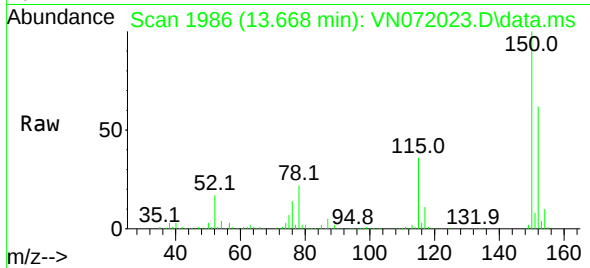




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. -0.001 min
 Lab File: VN072023.D
 Acq: 16 Apr 2022 00:03

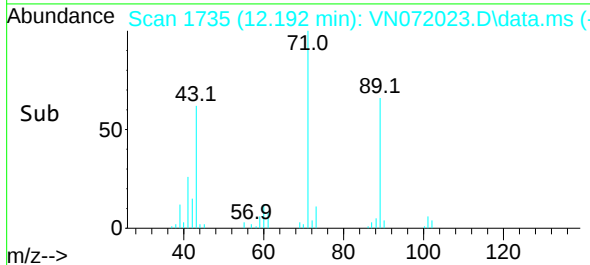
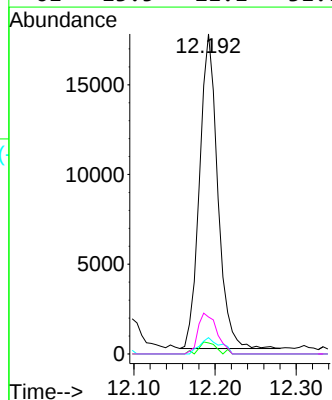
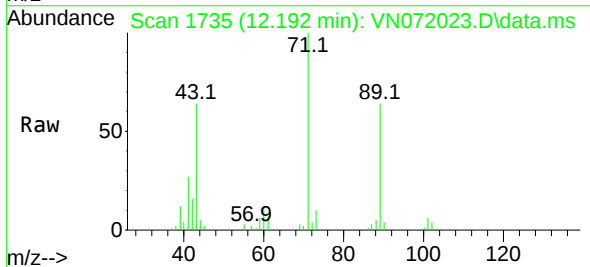
Instrument :
 MSVOA_N
 ClientSampleId :
 PB144101ZHE#11

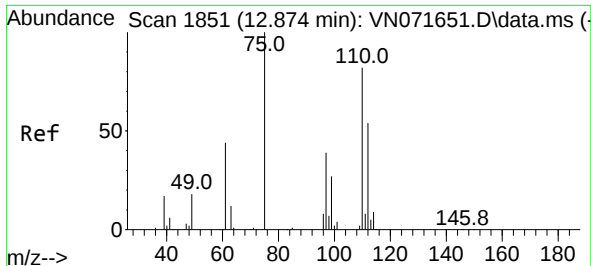
Tgt Ion:152 Resp: 429208
 Ion Ratio Lower Upper
 152 100
 115 55.6 28.9 86.7
 150 157.9 0.0 356.2



#74
 N-ethyl acetate
 Concen: 2.632 ug/l
 RT: 12.192 min Scan# 1735
 Delta R.T. -0.188 min
 Lab File: VN072023.D
 Acq: 16 Apr 2022 00:03

Tgt Ion: 43 Resp: 27277
 Ion Ratio Lower Upper
 43 100
 70 3.7 39.0 58.4#
 55 5.7 21.1 31.7#
 61 13.5 21.1 31.7#

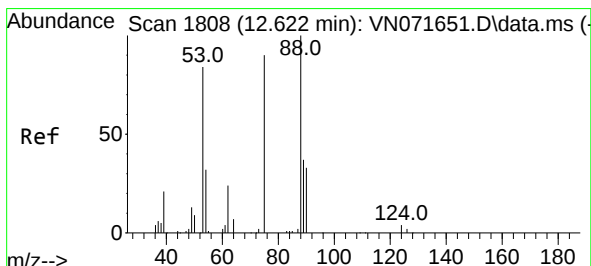
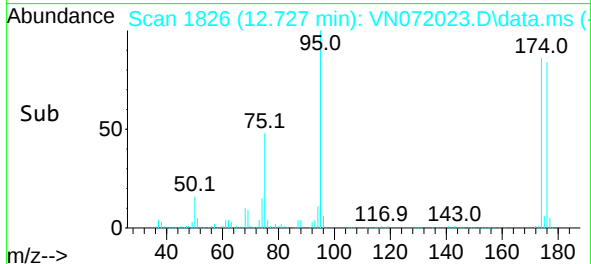
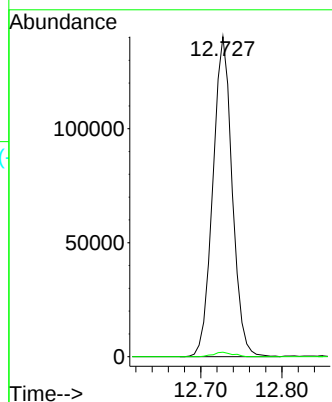
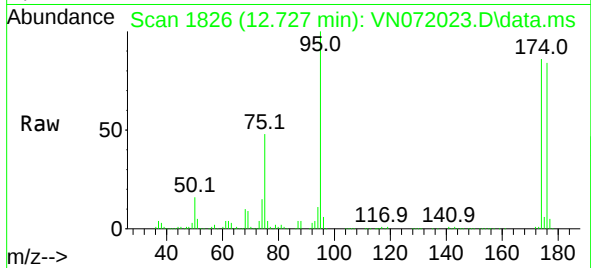




#76
1,2,3-Trichloropropane
Concen: 23.383 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

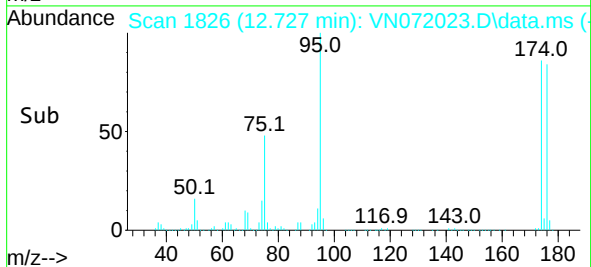
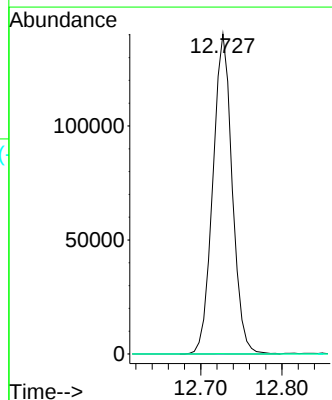
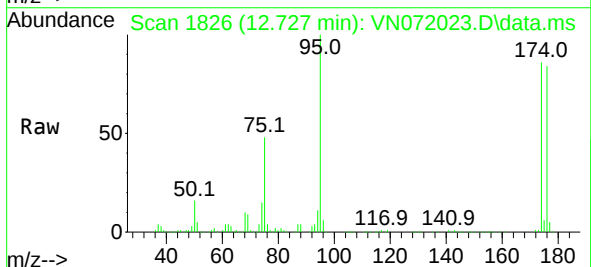
Instrument :
MSVOA_N
ClientSampleId :
PB144101ZHE#11

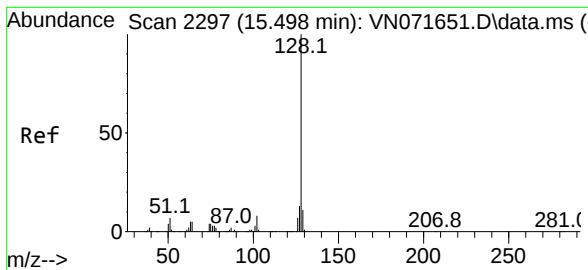
Tgt Ion: 75 Resp: 232495
Ion Ratio Lower Upper
75 100
77 1.4 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.463 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN072023.D
Acq: 16 Apr 2022 00:03

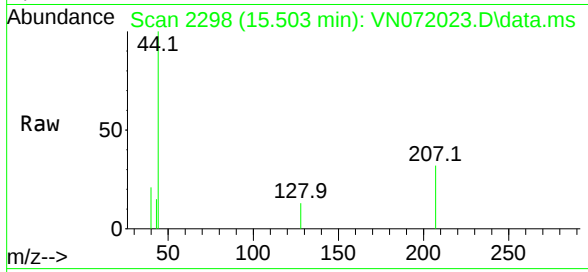
Tgt Ion: 75 Resp: 232495
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#





#95
 Naphthalene
 Concen: 3.808 ug/l
 RT: 15.503 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN072023.D
 Acq: 16 Apr 2022 00:03

Instrument :
 MSVOA_N
 ClientSampleId :
 PB144101ZHE#11



Tgt Ion:	128	Resp:	117
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

