

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085611.D
 Acq On : 31 Jan 2025 18:53
 Operator : JC\MD
 Sample : PB166357ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#16

Quant Time: Jan 31 22:33:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

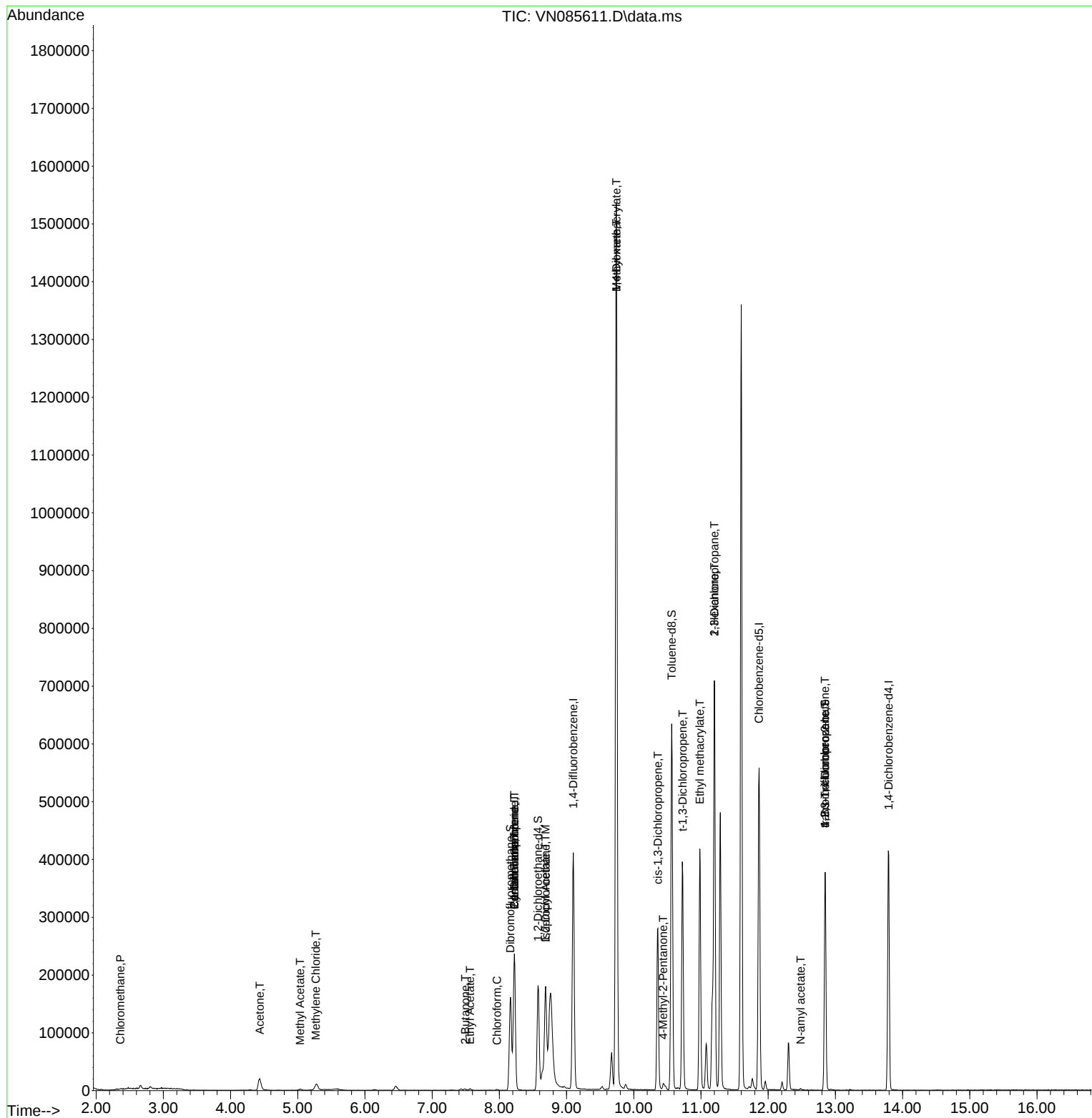
Internal Standards						
1) Pentafluorobenzene	8.224	168	155996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	326939	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	307240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	107910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	152857	60.703	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.400%			
35) Dibromofluoromethane	8.165	113	114281	50.385	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.780%			
50) Toluene-d8	10.565	98	420261	52.150	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.300%			
62) 4-Bromofluorobenzene	12.847	95	123955	44.965	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.940%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	722	0.316	ug/l #	41
16) Acetone	4.436	43	39992	49.153	ug/l	94
18) Methyl Acetate	5.036	43	3826	1.546	ug/l #	76
20) Methylene Chloride	5.271	84	8115	4.029	ug/l #	78
25) 2-Butanone	7.494	43	3959	3.307	ug/l #	77
30) Chloroform	7.965	83	1631	0.429	ug/l	90
31) Cyclohexane	8.224	56	4593	1.437	ug/l #	22
36) 1,1-Dichloropropene	8.224	75	15082	4.738	ug/l #	50
37) Ethyl Acetate	7.565	43	3820	1.189	ug/l #	85
38) Carbon Tetrachloride	8.224	117	17842	4.896	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	1196	0.332	ug/l #	76
43) Isopropyl Acetate	8.688	43	223465	43.404	ug/l #	79
48) Methyl methacrylate	9.741	41	146837	63.375	ug/l #	46
49) 1,4-Dioxane	9.741	88	139	3.563	ug/l #	1
51) 4-Methyl-2-Pentanone	10.435	43	12445	4.166	ug/l #	71
53) t-1,3-Dichloropropene	10.729	75	934	0.275	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	47177	13.013	ug/l #	69
56) Ethyl methacrylate	10.982	69	2442	2.567	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7245	1.900	ug/l #	43
59) 2-Hexanone	11.200	43	85163	40.512	ug/l #	59
74) N-amyl acetate	12.482	43	1364	0.417	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	68364	31.169	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68364	84.331	ug/l #	3

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

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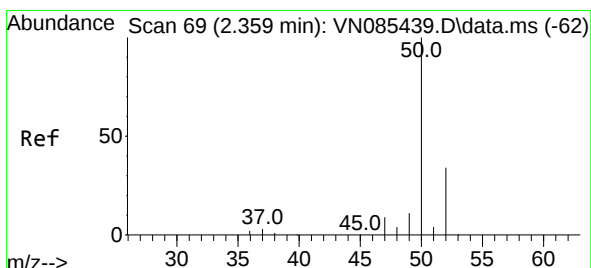
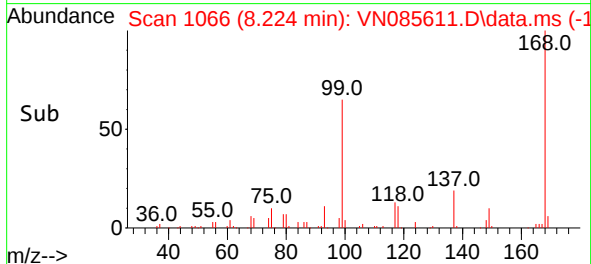
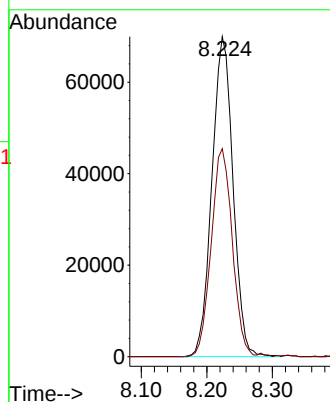
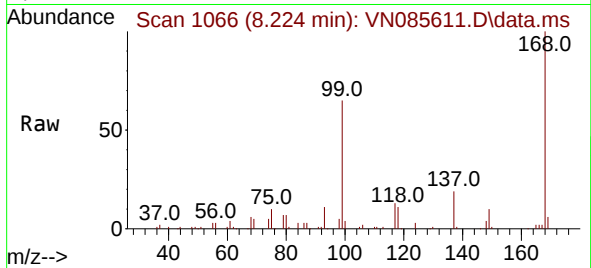




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

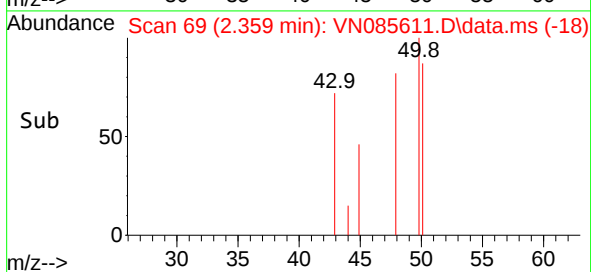
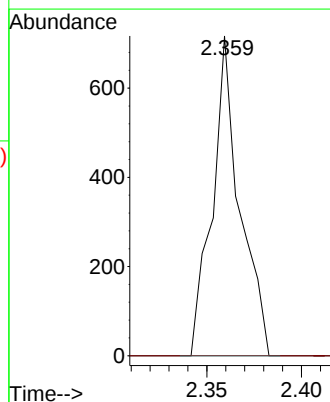
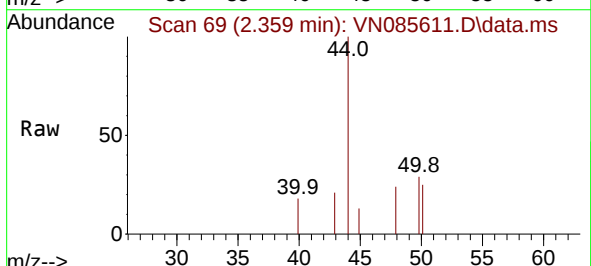
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

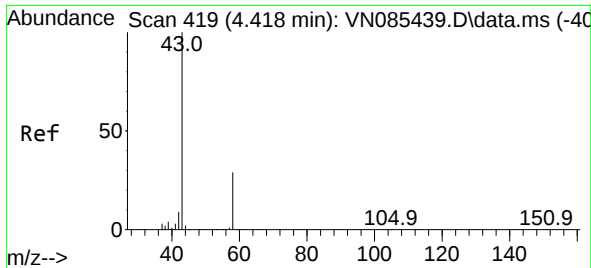
Tgt Ion:168 Resp: 155996
Ion Ratio Lower Upper
168 100
99 65.0 53.6 80.4



#3
Chloromethane
Concen: 0.316 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Tgt Ion: 50 Resp: 722
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

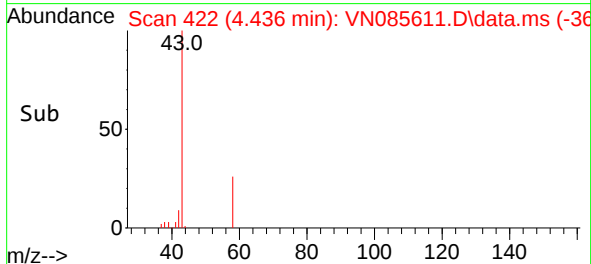
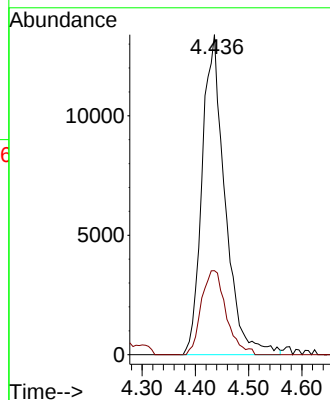
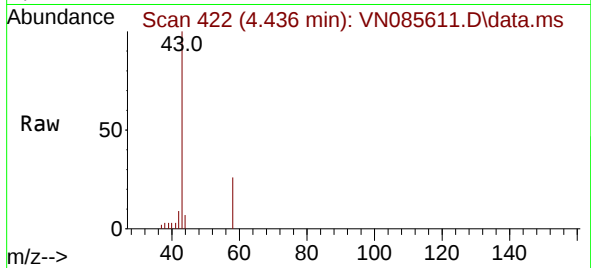




#16
Acetone
Concen: 49.153 ug/l
RT: 4.436 min Scan# 419
Delta R.T. 0.018 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

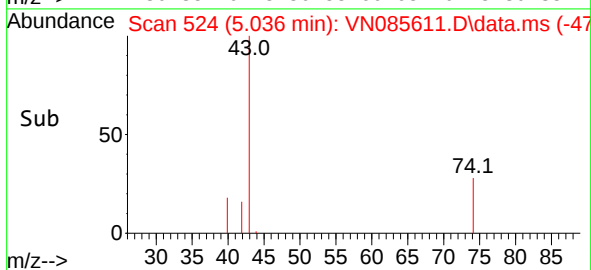
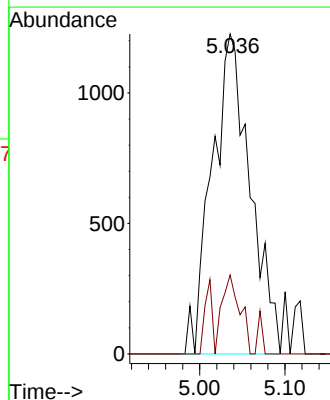
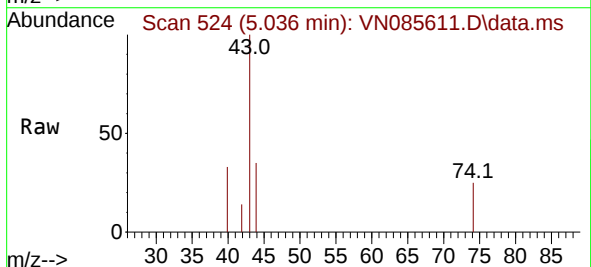
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

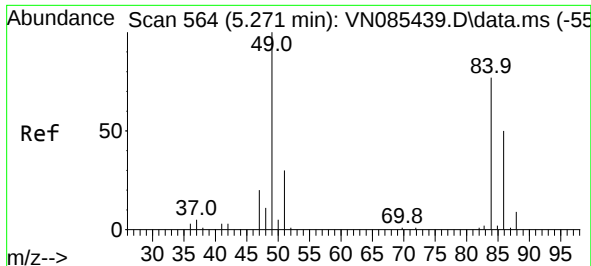
Tgt Ion: 43 Resp: 39992
Ion Ratio Lower Upper
43 100
58 26.2 23.8 35.6



#18
Methyl Acetate
Concen: 1.546 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

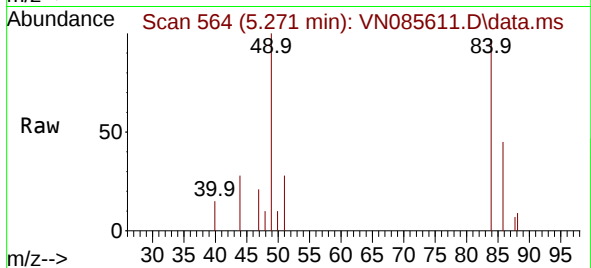
Tgt Ion: 43 Resp: 3826
Ion Ratio Lower Upper
43 100
74 11.6 18.6 28.0#



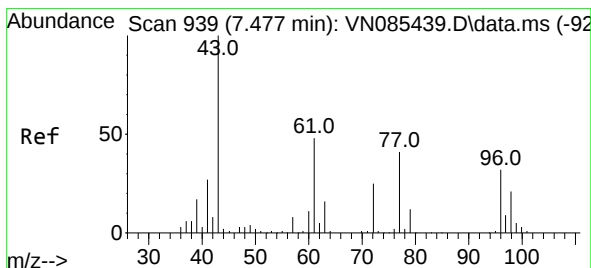
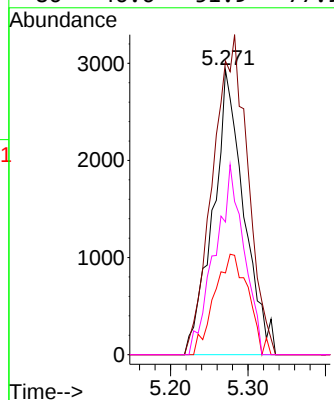


#20
Methylene Chloride
Concen: 4.029 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

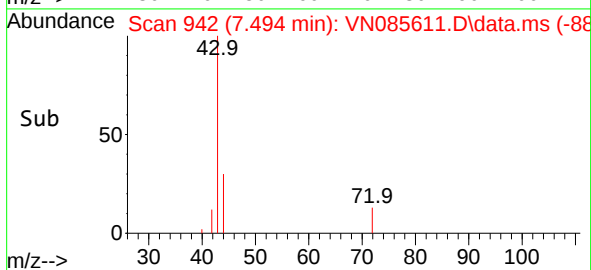
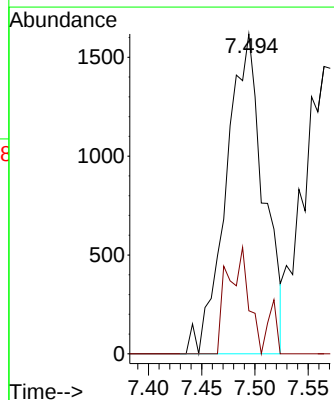
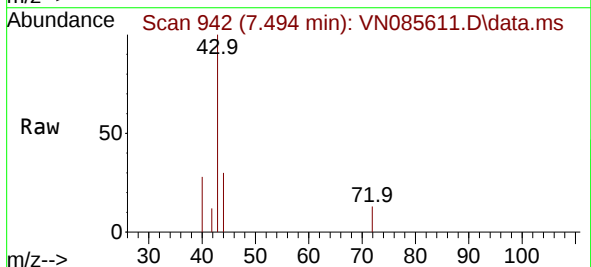


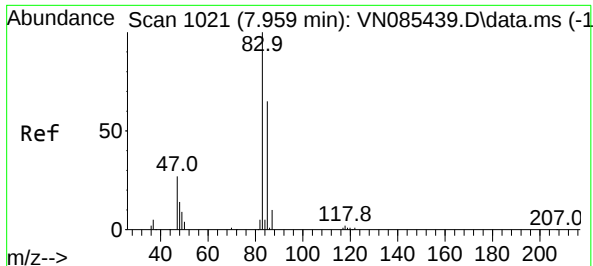
Tgt Ion:	84	Resp:	8115
Ion	Ratio	Lower	Upper
84	100		
49	103.2	104.1	156.1#
51	28.7	31.0	46.4#
86	46.6	51.9	77.9#



#25
2-Butanone
Concen: 3.307 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Tgt Ion:	43	Resp:	3959
Ion	Ratio	Lower	Upper
43	100		
72	13.5	20.2	30.4#





#30

Chloroform

Concen: 0.429 ug/l

RT: 7.965 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

Instrument :

MSVOA_N

ClientSampleId :

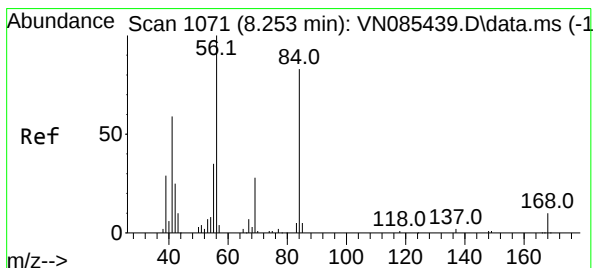
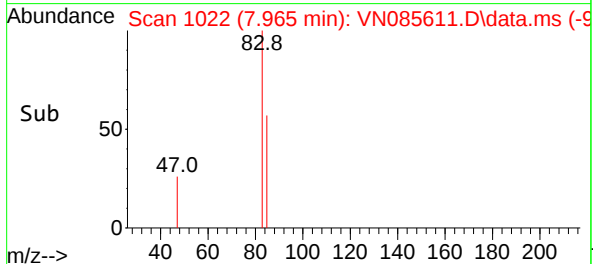
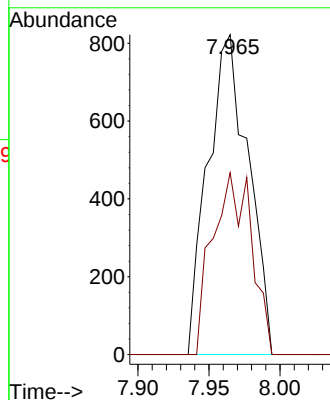
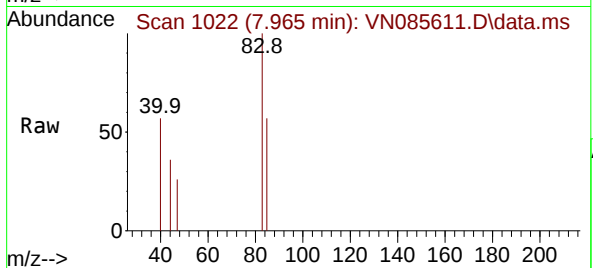
PB166357ZHE#16

Tgt Ion: 83 Resp: 1631

Ion Ratio Lower Upper

83 100

85 56.8 51.8 77.6



#31

Cyclohexane

Concen: 1.437 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

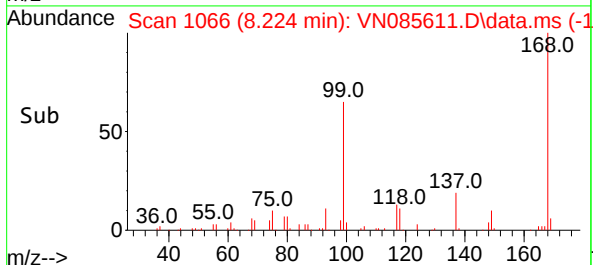
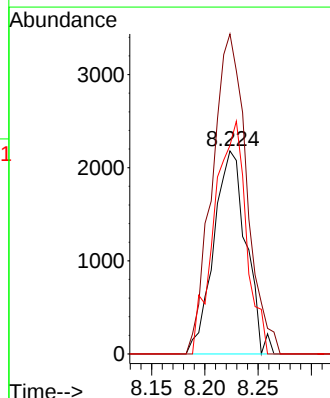
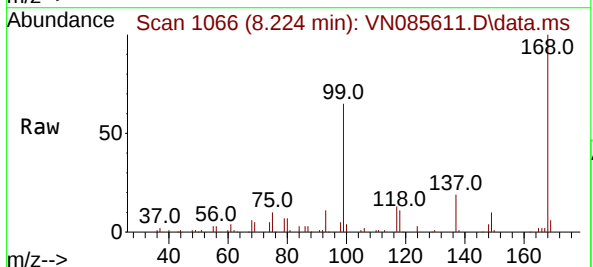
Tgt Ion: 56 Resp: 4593

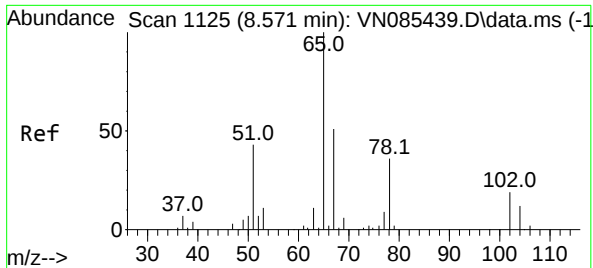
Ion Ratio Lower Upper

56 100

69 157.5 22.2 33.4#

84 102.7 66.4 99.6#

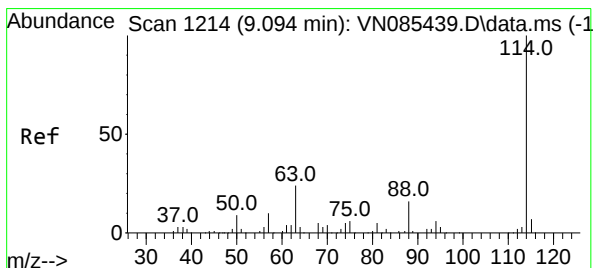
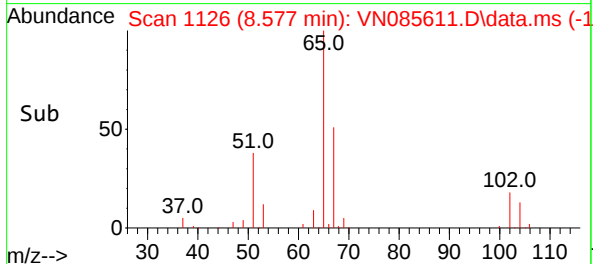
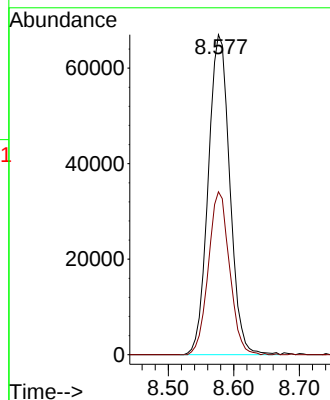
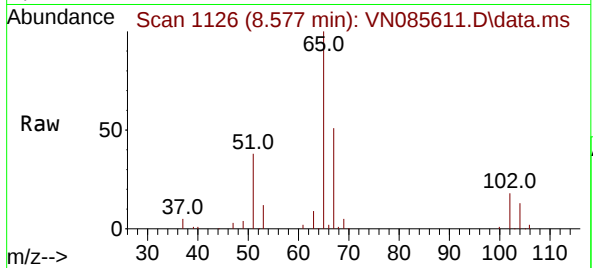




#33
 1,2-Dichloroethane-d4
 Concen: 60.703 ug/l
 RT: 8.577 min Scan# 1125
 Delta R.T. 0.006 min
 Lab File: VN085611.D
 Acq: 31 Jan 2025 18:53

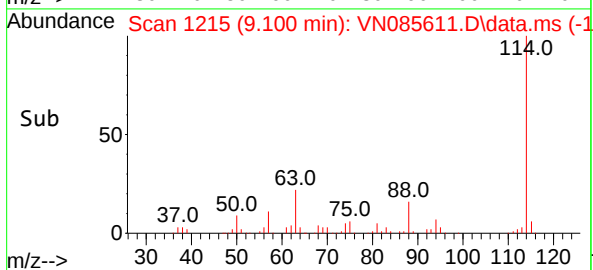
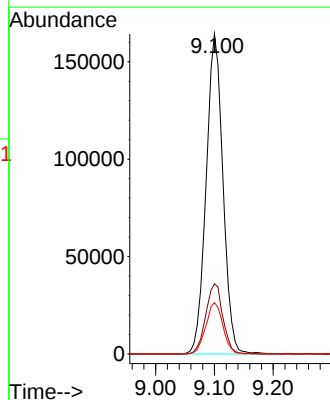
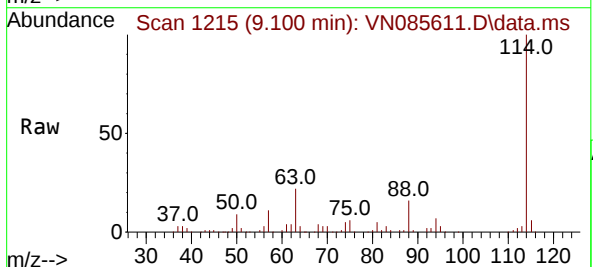
Instrument :
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 PB166357ZHE#16

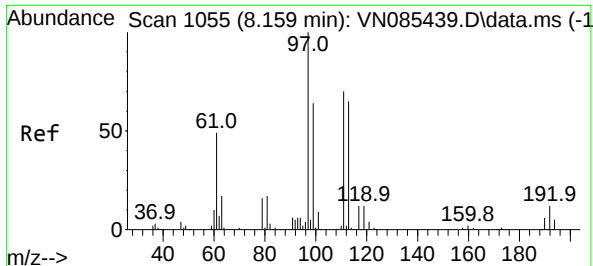
Tgt Ion: 65 Resp: 152857
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.006 min
 Lab File: VN085611.D
 Acq: 31 Jan 2025 18:53

Tgt Ion: 114 Resp: 326939
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 47.6
 88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.385 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB166357ZHE#16

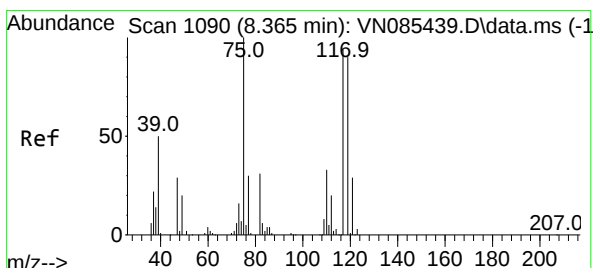
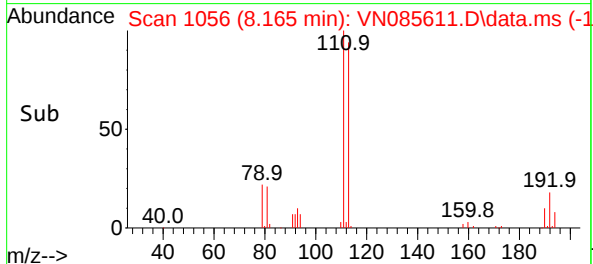
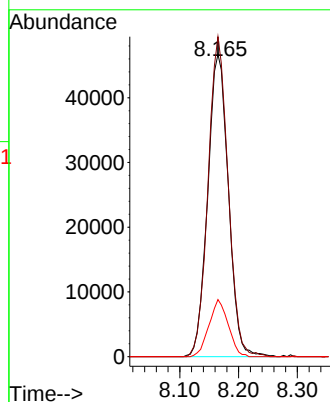
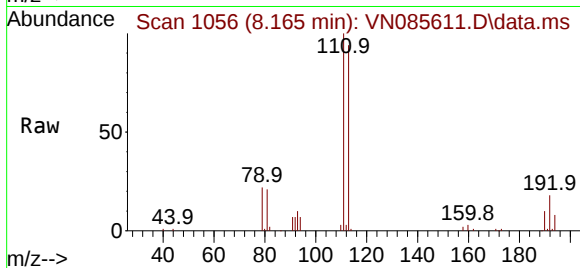
Tgt Ion:113 Resp: 114281

Ion Ratio Lower Upper

113 100

111 102.4 82.7 124.1

192 17.6 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.738 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

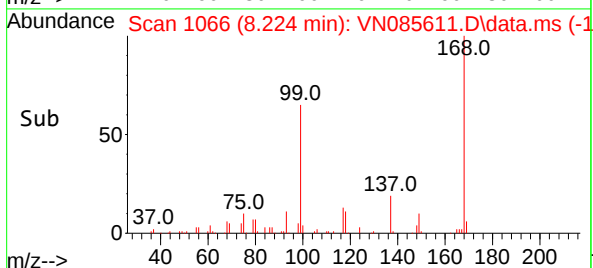
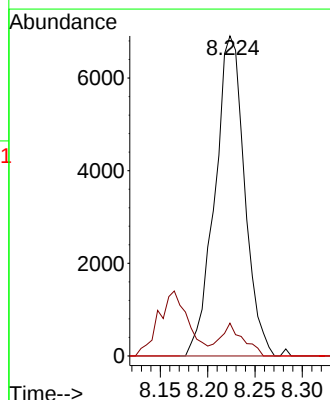
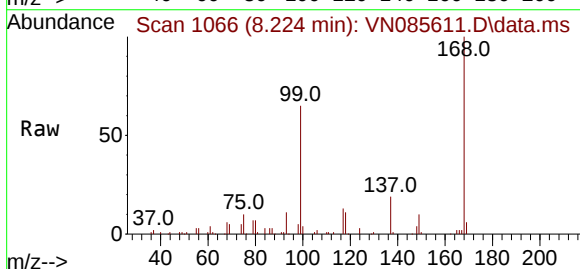
Tgt Ion: 75 Resp: 15082

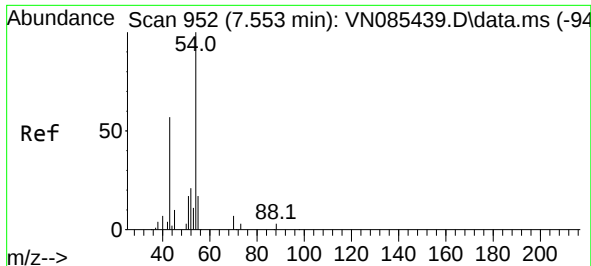
Ion Ratio Lower Upper

75 100

110 7.9 16.5 49.5#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.189 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

Instrument :

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PB166357ZHE#16

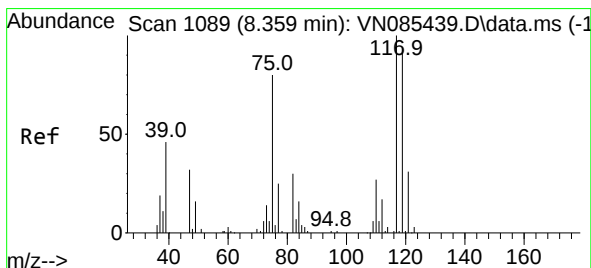
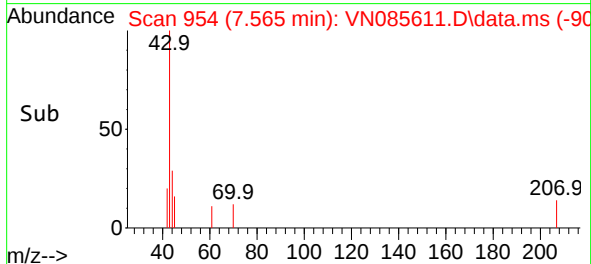
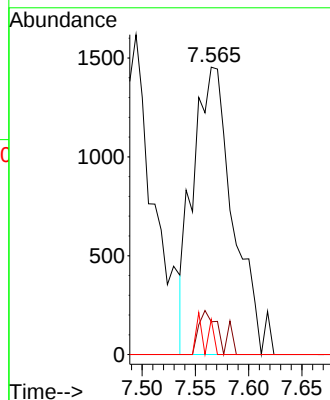
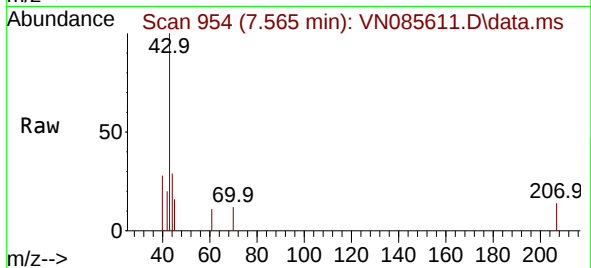
Tgt Ion: 43 Resp: 3820

Ion Ratio Lower Upper

43 100

61 8.1 10.9 16.3#

70 3.6 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 4.896 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

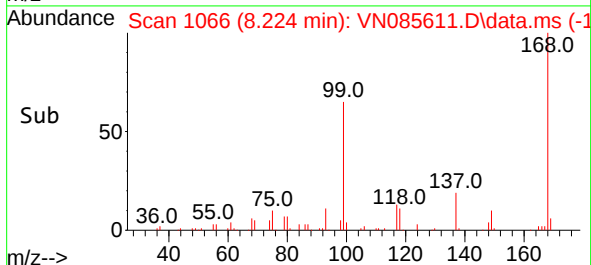
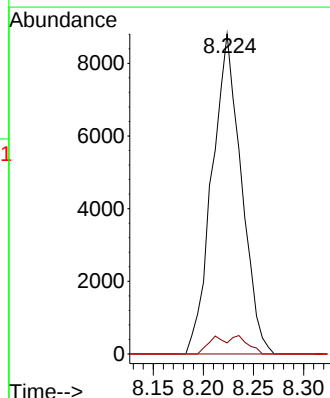
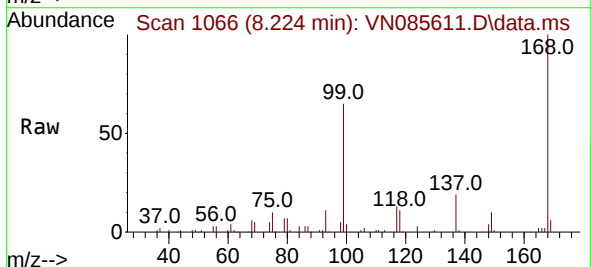
Tgt Ion: 117 Resp: 17842

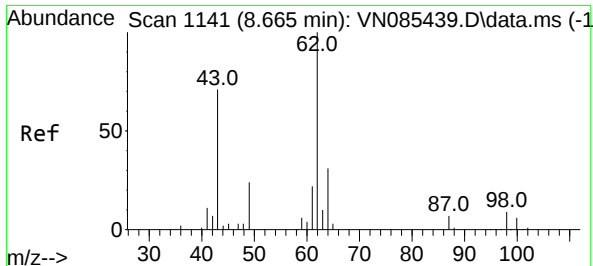
Ion Ratio Lower Upper

117 100

119 3.5 75.4 113.2#

121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.332 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.023 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

Instrument :

MSVOA_N

ClientSampleId :

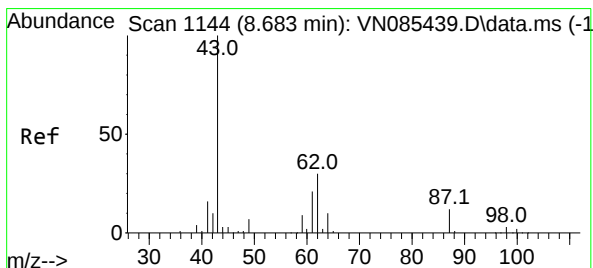
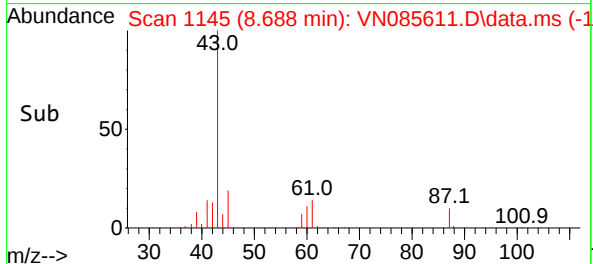
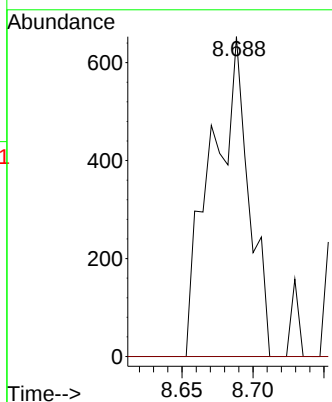
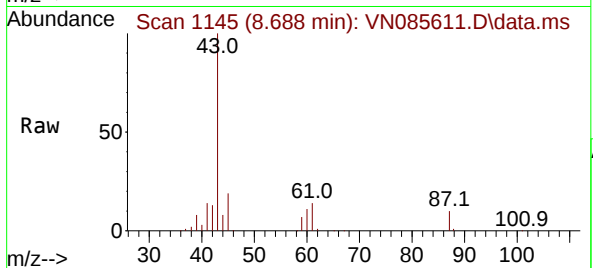
PB166357ZHE#16

Tgt Ion: 62 Resp: 1196

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 43.404 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

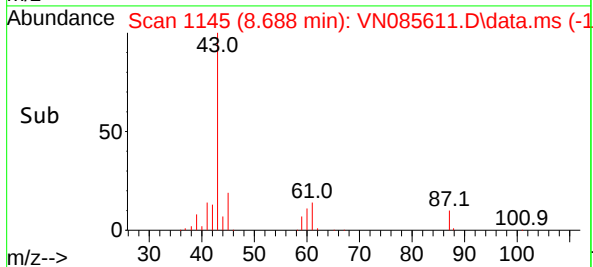
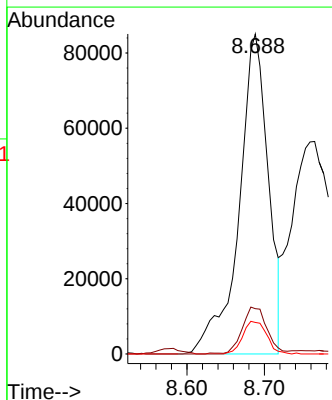
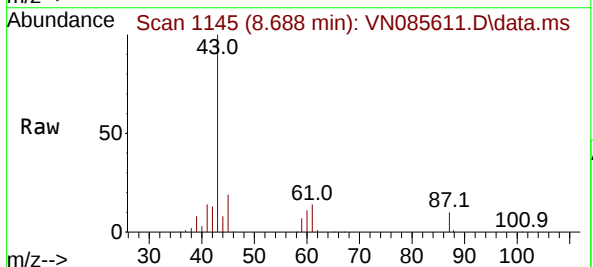
Tgt Ion: 43 Resp: 223465

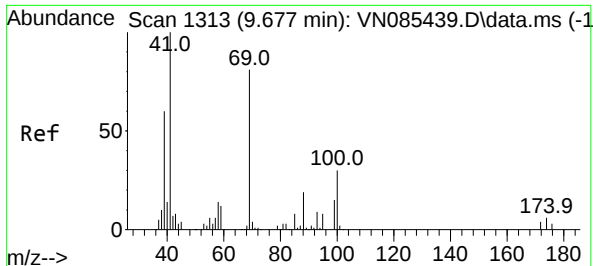
Ion Ratio Lower Upper

43 100

61 12.4 20.7 31.1#

87 8.4 9.8 14.8#





#48

Methyl methacrylate

Concen: 63.375 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB166357ZHE#16

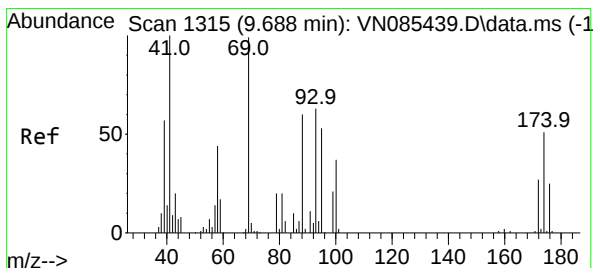
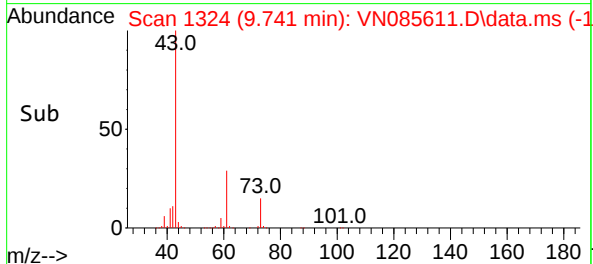
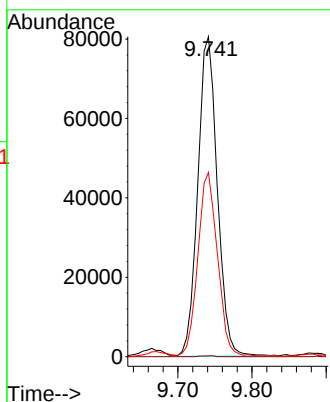
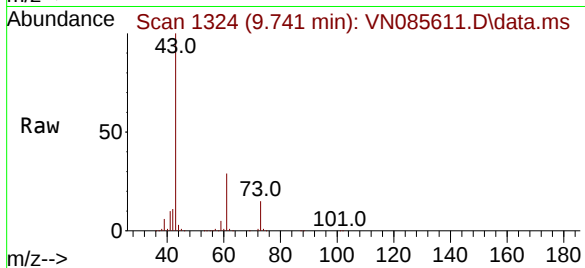
Tgt Ion: 41 Resp: 146837

Ion Ratio Lower Upper

41 100

69 0.2 64.7 97.1#

39 57.8 49.0 73.6



#49

1,4-Dioxane

Concen: 3.563 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.053 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

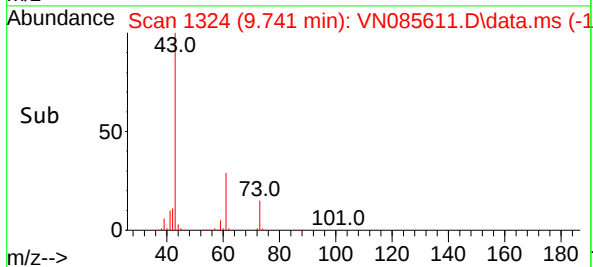
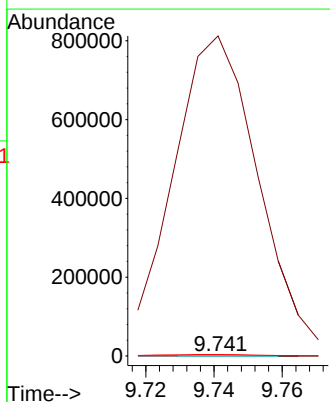
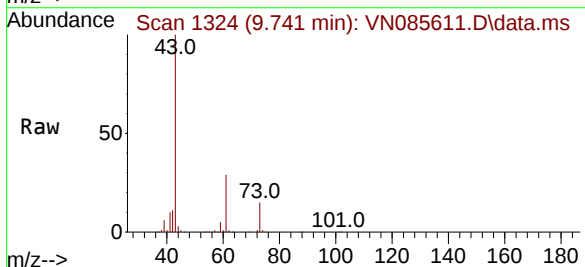
Tgt Ion: 88 Resp: 139

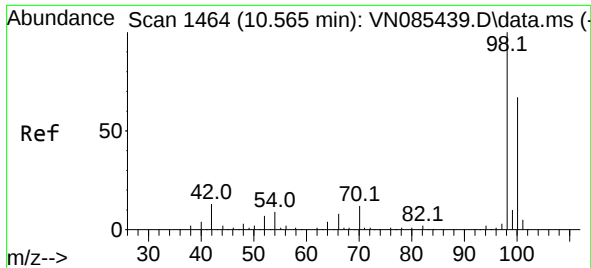
Ion Ratio Lower Upper

88 100

43 1043999.3 26.6 39.8#

58 5560.4 59.5 89.3#

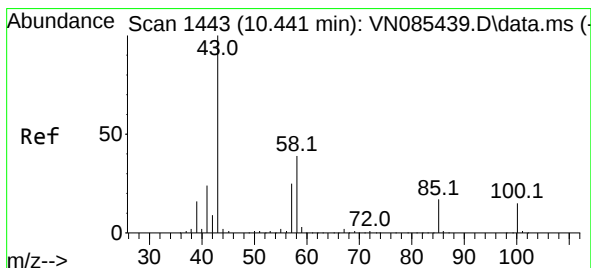
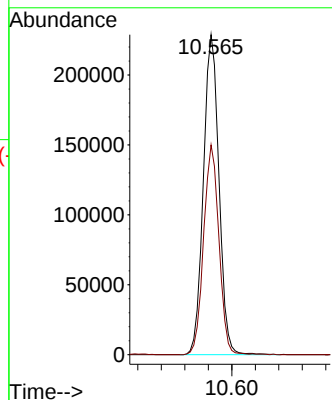
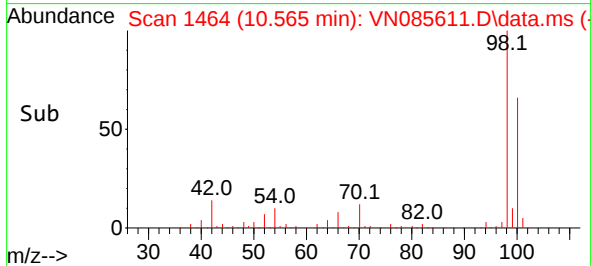
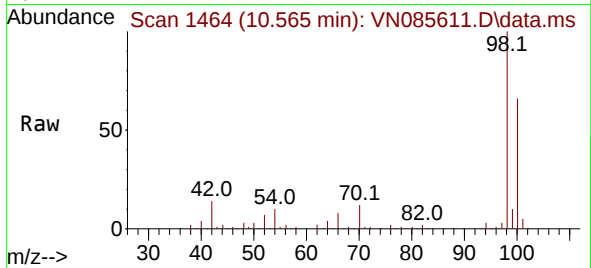




#50
Toluene-d8
Concen: 52.150 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

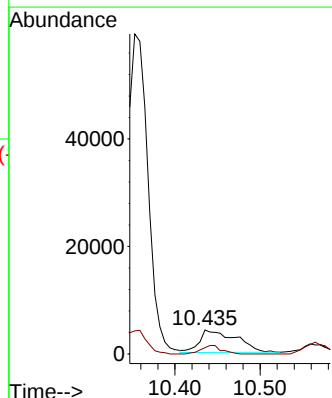
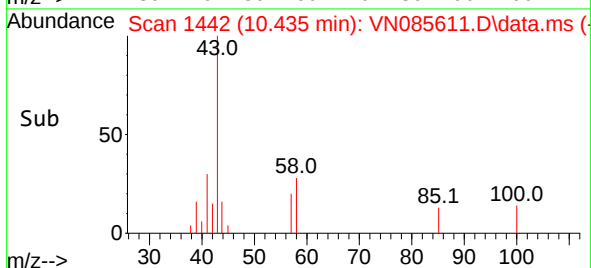
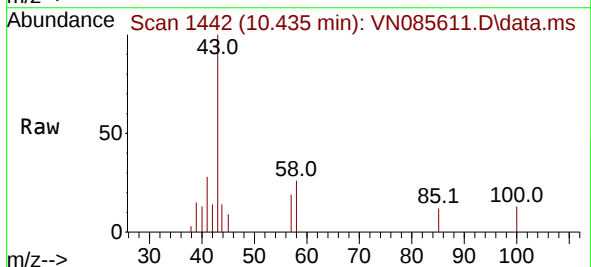
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

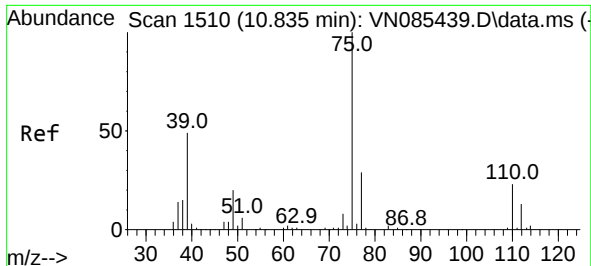
Tgt Ion: 98 Resp: 420261
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 4.166 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Tgt Ion: 43 Resp: 12445
Ion Ratio Lower Upper
43 100
58 20.7 30.5 45.7#

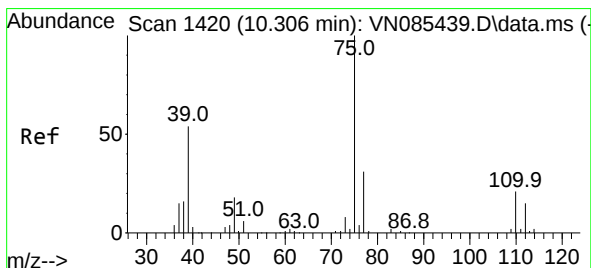
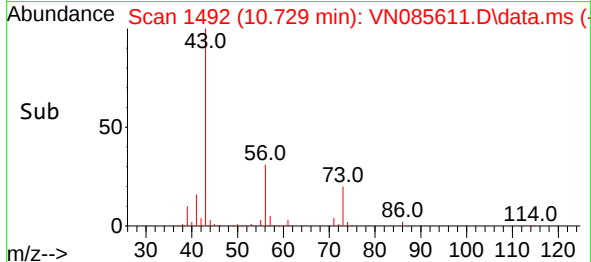
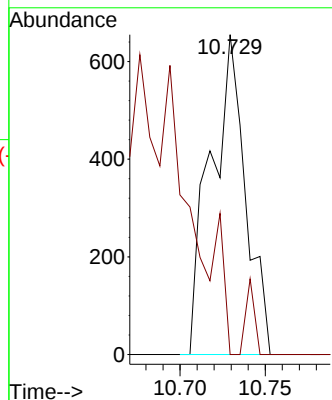
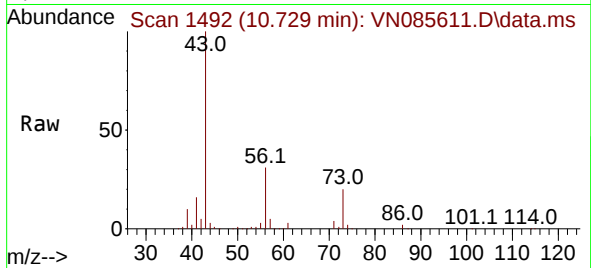




#53
 t-1,3-Dichloropropene
 Concen: 0.275 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN085611.D
 Acq: 31 Jan 2025 18:53

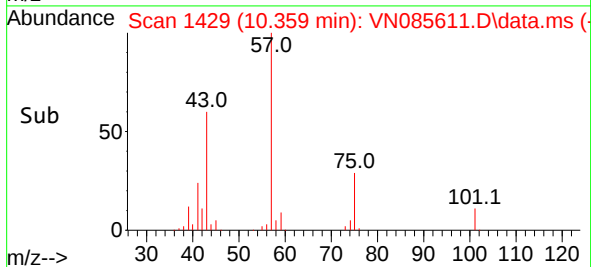
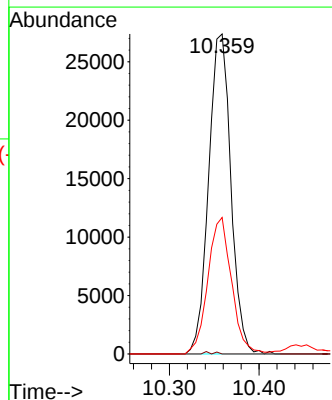
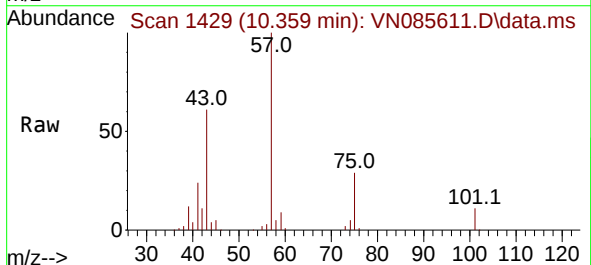
Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#16

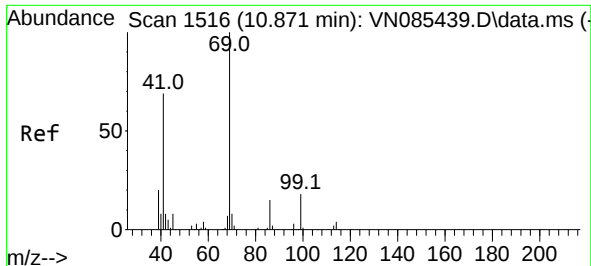
Tgt Ion: 75 Resp: 934
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.5 35.3#



#54
 cis-1,3-Dichloropropene
 Concen: 13.013 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN085611.D
 Acq: 31 Jan 2025 18:53

Tgt Ion: 75 Resp: 47177
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 42.6 43.1 64.7#

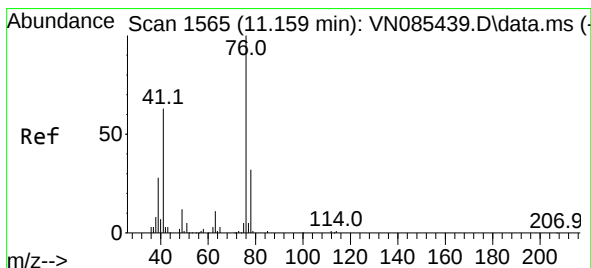
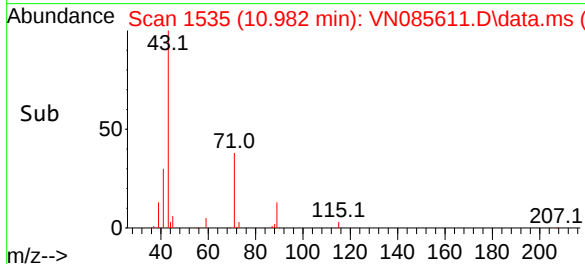
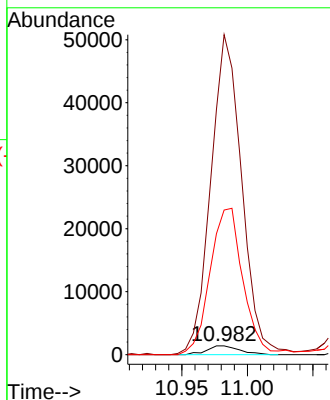
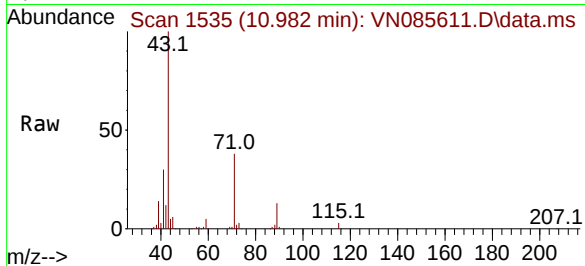




#56
Ethyl methacrylate
Concen: 2.567 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

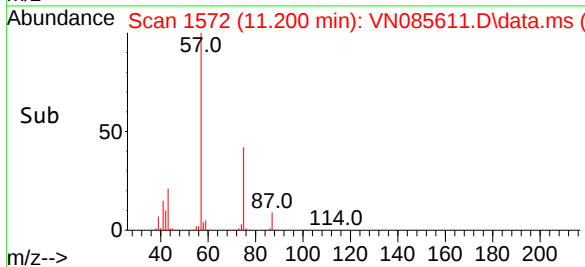
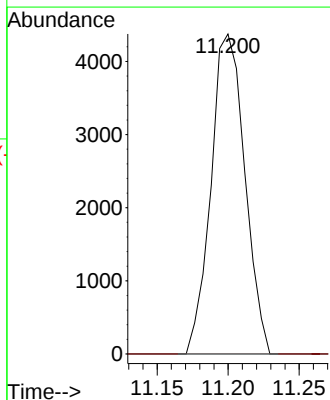
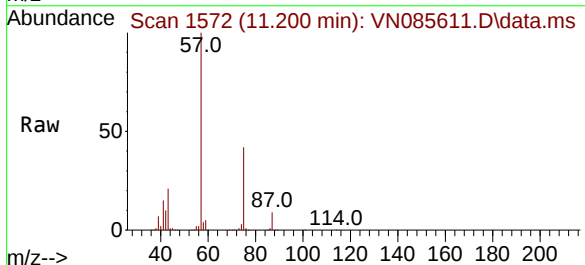
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

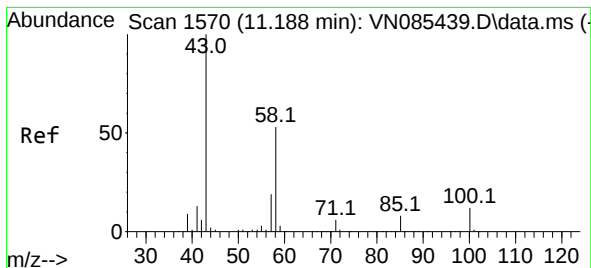
Tgt Ion: 69 Resp: 2442
Ion Ratio Lower Upper
69 100
41 3411.8 54.6 82.0#
39 1668.0 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.900 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Tgt Ion: 76 Resp: 7245
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

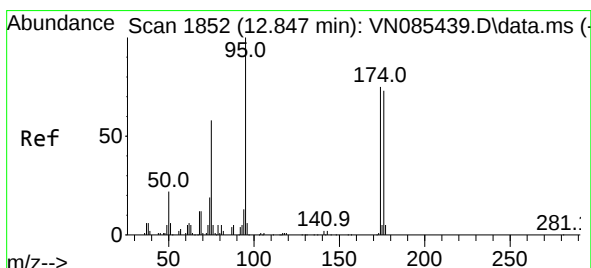
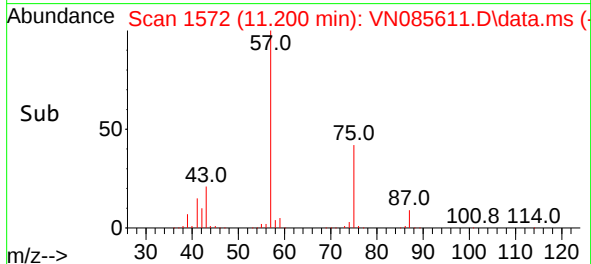
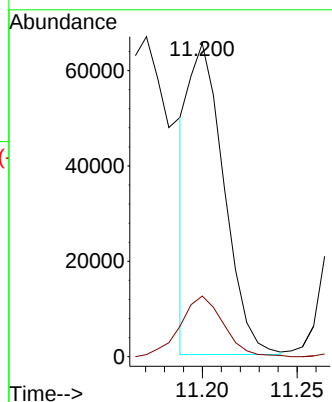
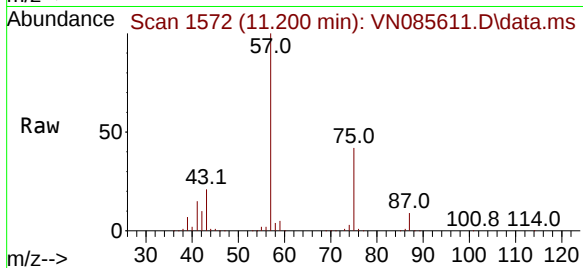




#59
2-Hexanone
Concen: 40.512 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.012 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

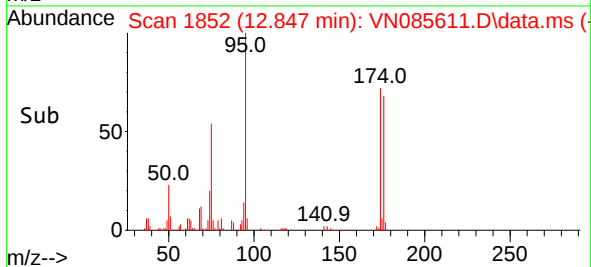
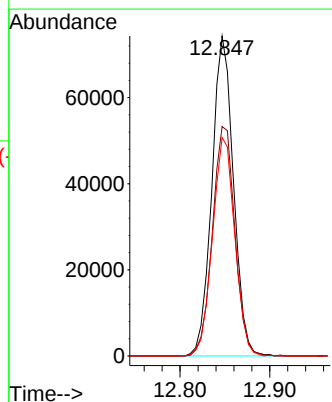
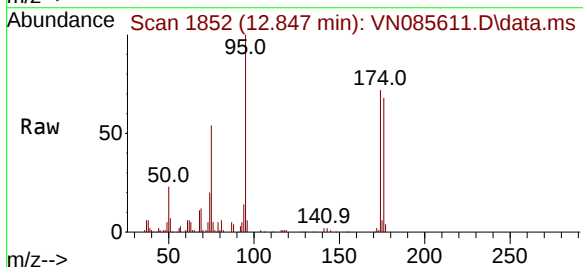
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

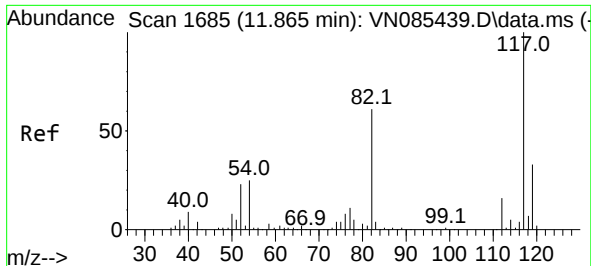
Tgt Ion: 43 Resp: 85163
Ion Ratio Lower Upper
43 100
58 23.7 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 44.965 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Tgt Ion: 95 Resp: 123955
Ion Ratio Lower Upper
95 100
174 74.6 0.0 145.0
176 70.7 0.0 142.4

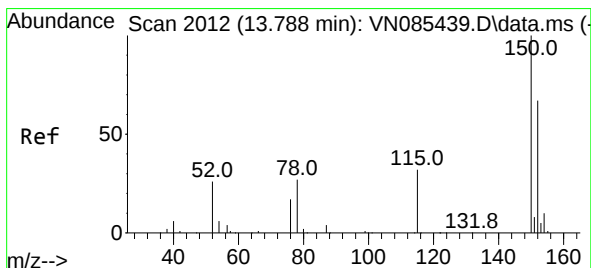
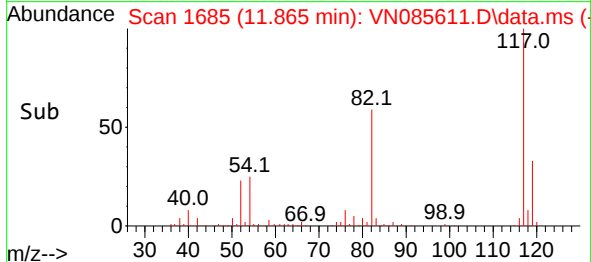
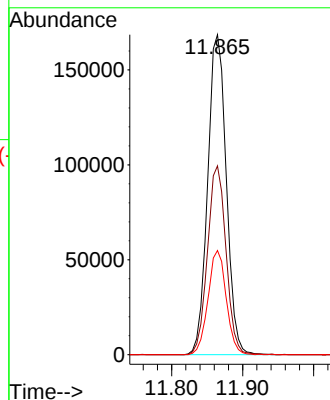
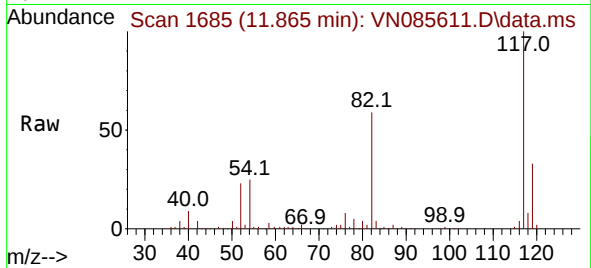




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

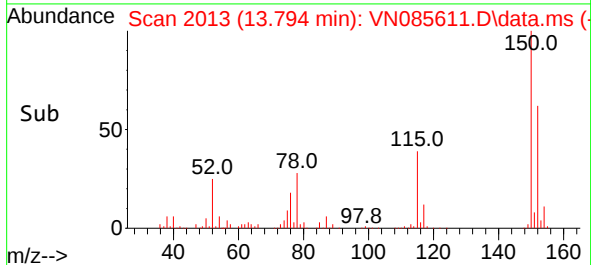
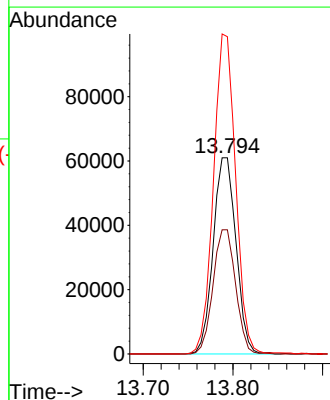
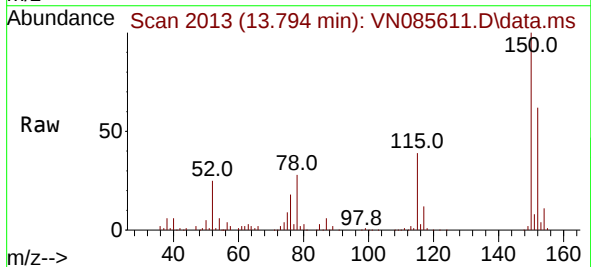
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#16

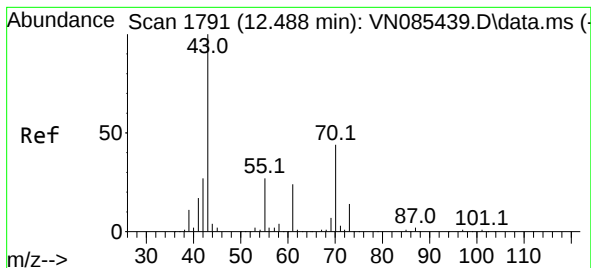
Tgt Ion:117 Resp: 307240
Ion Ratio Lower Upper
117 100
82 59.0 48.6 72.8
119 32.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN085611.D
Acq: 31 Jan 2025 18:53

Tgt Ion:152 Resp: 107910
Ion Ratio Lower Upper
152 100
115 62.5 31.1 93.3
150 157.4 0.0 343.6





#74

N-amy1 acetate

Concen: 0.417 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN085611.D

Acq: 31 Jan 2025 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB166357ZHE#16

Tgt Ion: 43 Resp: 1364

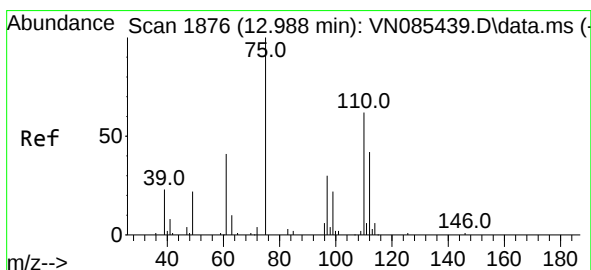
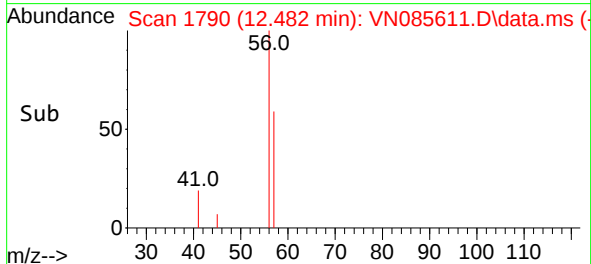
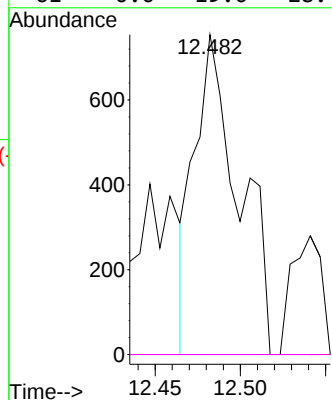
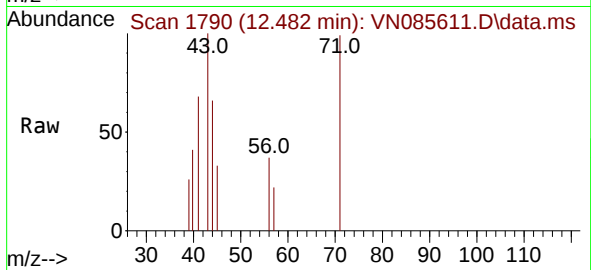
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 21.4 32.2#

61 0.0 19.0 28.4#



#76

1,2,3-Trichloropropane

Concen: 31.169 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085611.D

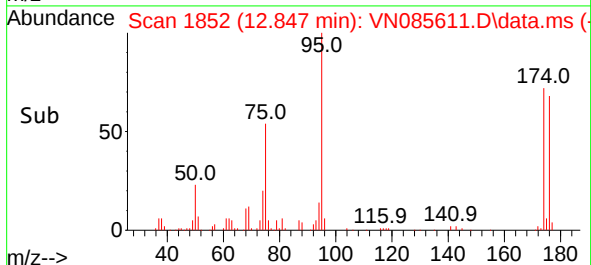
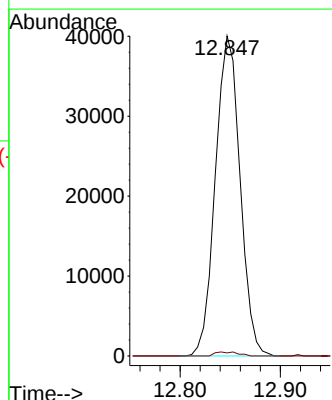
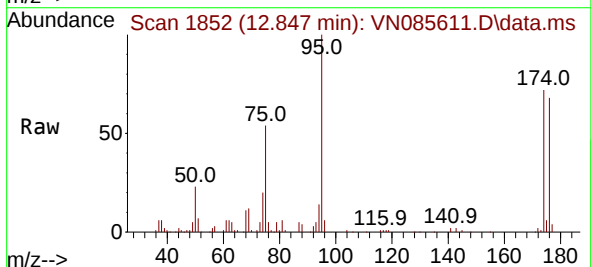
Acq: 31 Jan 2025 18:53

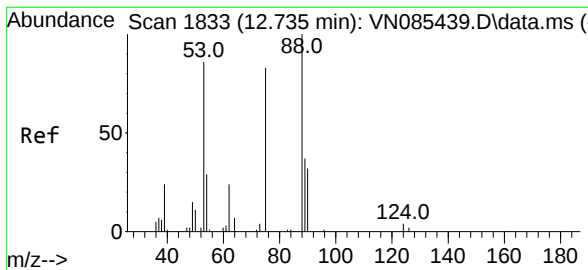
Tgt Ion: 75 Resp: 68364

Ion Ratio Lower Upper

75 100

77 1.2 109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.331 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085611.D
 Acq: 31 Jan 2025 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#16

Tgt Ion: 75 Resp: 68364
 Ion Ratio Lower Upper
 75 100
 53 0.2 95.6 143.4#
 89 0.0 37.0 55.6#

