

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086588.D
 Acq On : 12 May 2025 18:06
 Operator : JC\MD
 Sample : PB167932ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#13

Quant Time: May 13 01:57:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

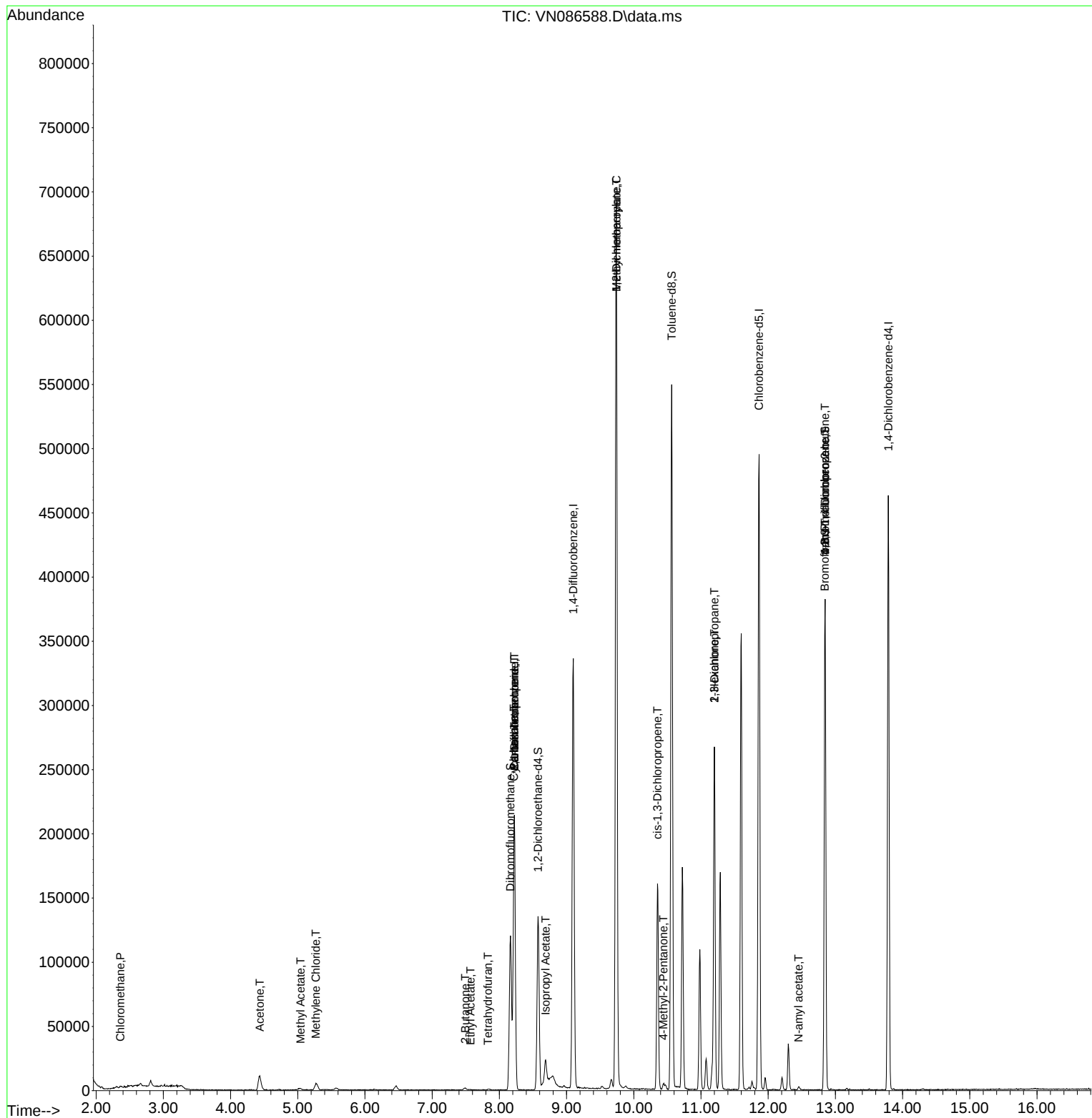
Internal Standards						
1) Pentafluorobenzene	8.224	168	157662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	300760	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	295000	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125423	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	112989	49.421	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	98.840%	
35) Dibromofluoromethane	8.165	113	88245	63.219	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	126.440%#	
50) Toluene-d8	10.565	98	385105	51.621	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	103.240%	
62) 4-Bromofluorobenzene	12.847	95	137505	50.534	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	101.060%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	709	0.261	ug/l #	82
16) Acetone	4.436	43	21941	22.566	ug/l	99
18) Methyl Acetate	5.042	43	3261	1.188	ug/l #	87
20) Methylene Chloride	5.271	84	4180	1.978	ug/l	87
25) 2-Butanone	7.494	43	3039	2.136	ug/l #	88
29) Tetrahydrofuran	7.830	42	424	0.446	ug/l #	32
31) Cyclohexane	8.218	56	3409	0.920	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13019	4.670	ug/l #	48
37) Ethyl Acetate	7.571	43	625	0.213	ug/l #	68
38) Carbon Tetrachloride	8.224	117	15366	5.787	ug/l #	17
43) Isopropyl Acetate	8.688	43	35939	5.048	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	849	0.388	ug/l #	43
48) Methyl methacrylate	9.741	41	62117	24.099	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	3031	1.008	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	30446	8.253	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3167	0.890	ug/l #	43
59) 2-Hexanone	11.200	43	51225	22.977	ug/l #	43
71) Bromoform	12.841	173	767	0.469	ug/l #	1
74) N-amyl acetate	12.453	43	2601	0.509	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69510	23.485	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69510	56.402	ug/l #	10

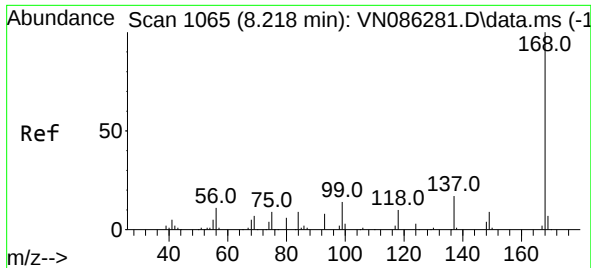
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

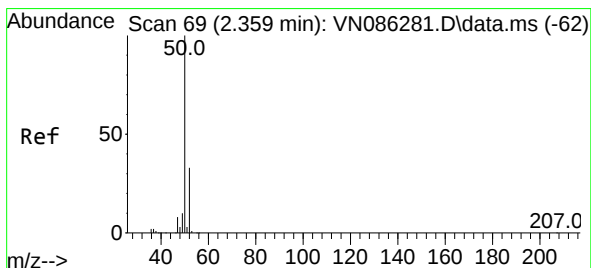
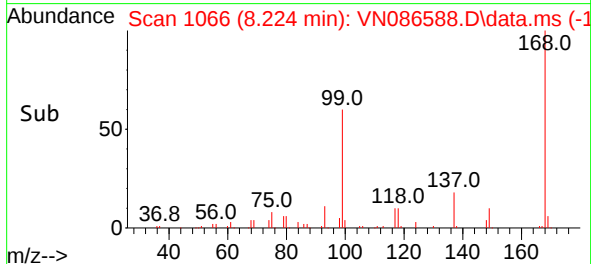
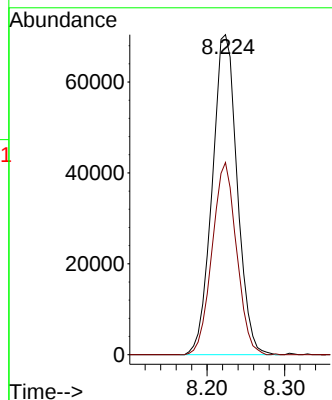
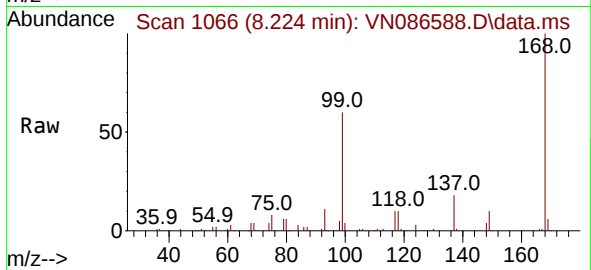




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

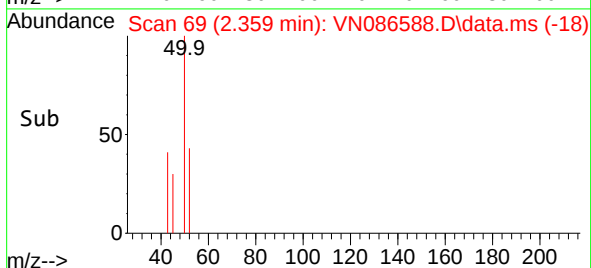
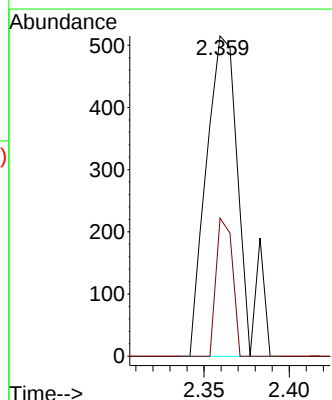
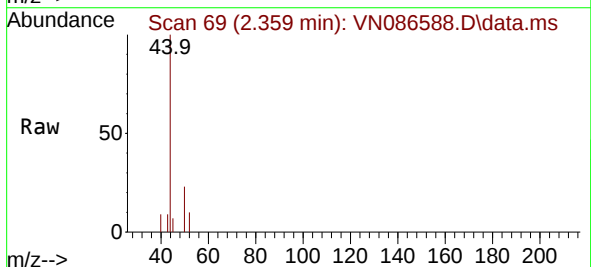
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

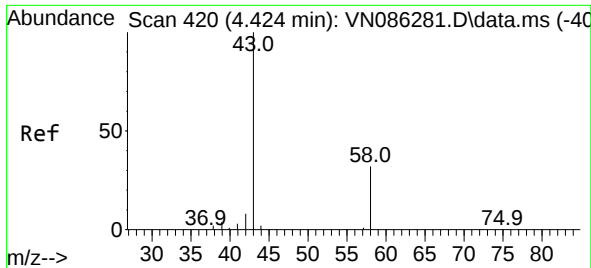
Tgt Ion:168 Resp: 157662
Ion Ratio Lower Upper
168 100
99 60.0 52.5 78.7



#3
Chloromethane
Concen: 0.261 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion: 50 Resp: 709
Ion Ratio Lower Upper
50 100
52 43.1 26.5 39.7#

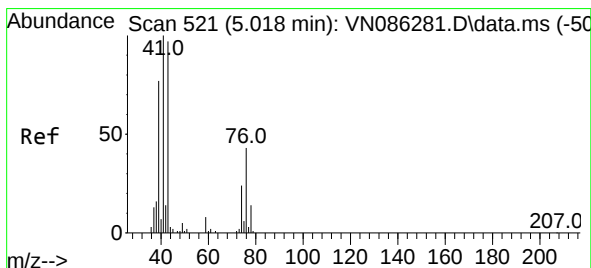
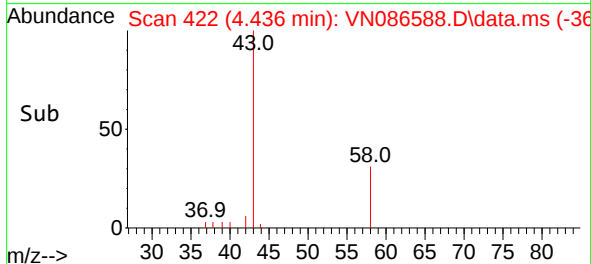
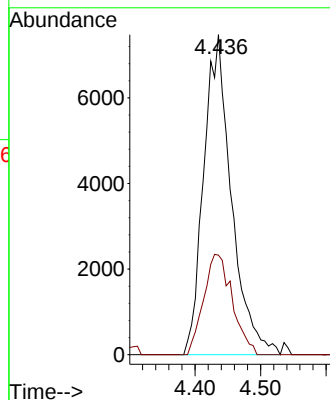
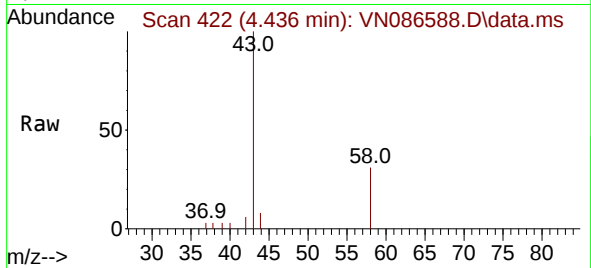




#16
Acetone
Concen: 22.566 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

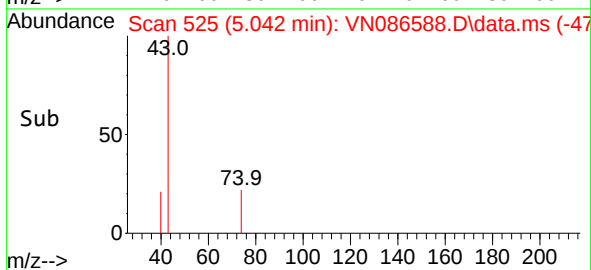
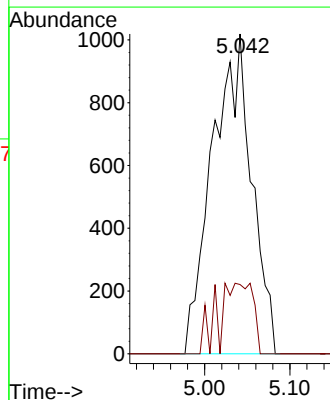
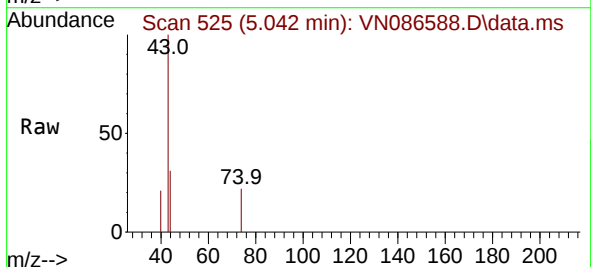
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

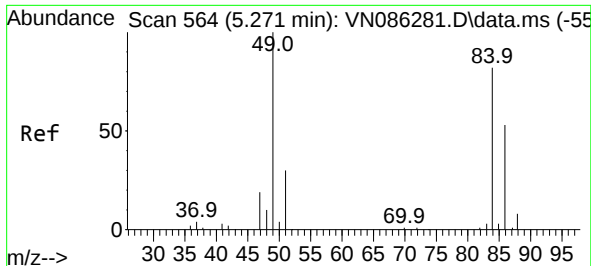
Tgt Ion: 43 Resp: 21941
Ion Ratio Lower Upper
43 100
58 31.1 25.3 37.9



#18
Methyl Acetate
Concen: 1.188 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.023 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

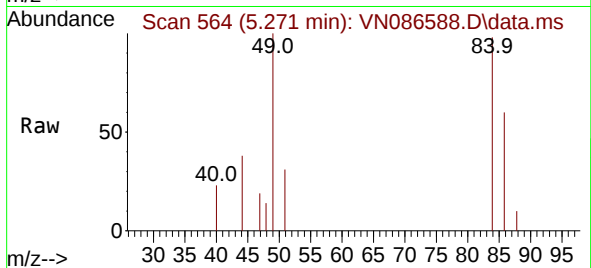
Tgt Ion: 43 Resp: 3261
Ion Ratio Lower Upper
43 100
74 18.0 19.8 29.6#



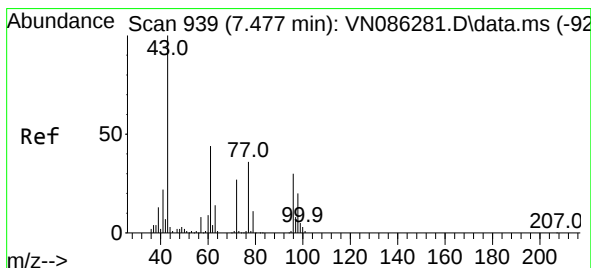
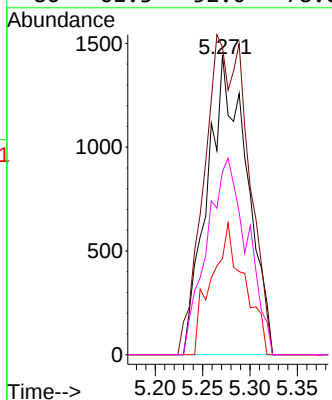


#20
Methylene Chloride
Concen: 1.978 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

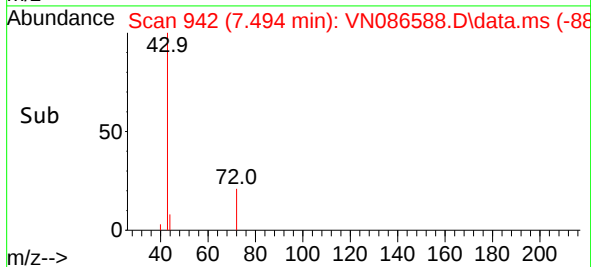
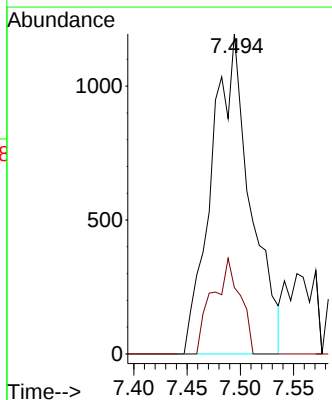
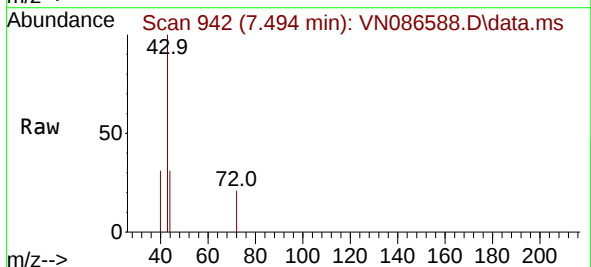


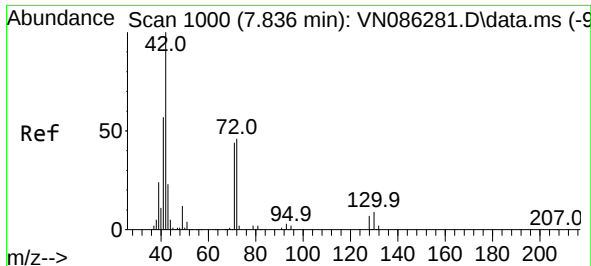
Tgt Ion:	84	Resp:	4180
Ion	Ratio	Lower	Upper
84	100		
49	102.5	98.2	147.2
51	32.1	29.8	44.6
86	61.3	52.0	78.0



#25
2-Butanone
Concen: 2.136 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion:	43	Resp:	3039
Ion	Ratio	Lower	Upper
43	100		
72	20.8	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.446 ug/l

RT: 7.830 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

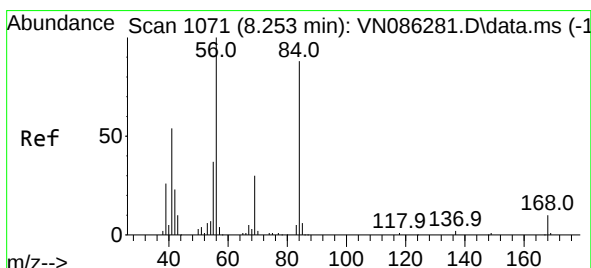
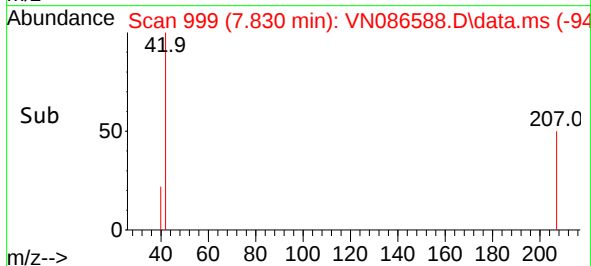
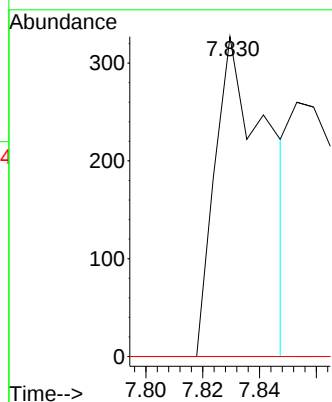
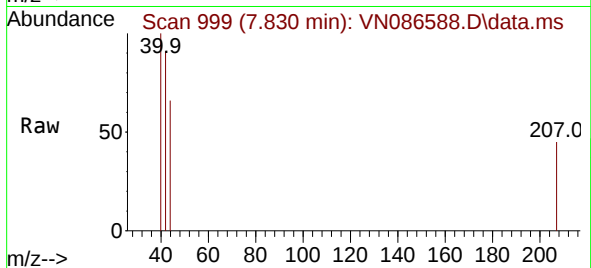
Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#13

Tgt Ion:	42	Resp:	424
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.920 ug/l

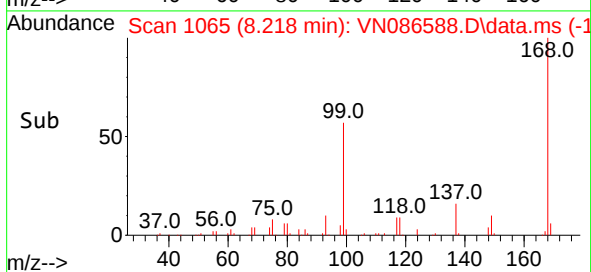
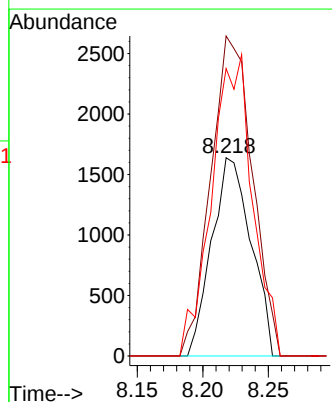
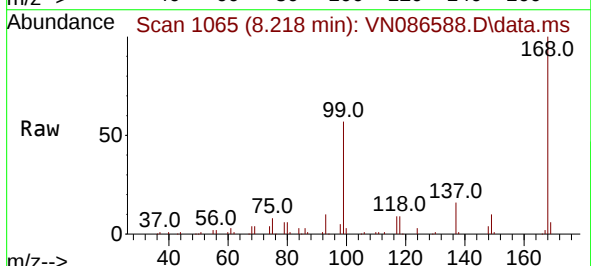
RT: 8.218 min Scan# 1065

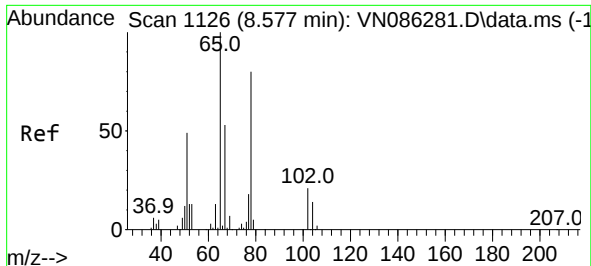
Delta R.T. -0.035 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

Tgt Ion:	56	Resp:	3409
Ion	Ratio	Lower	Upper
56	100		
69	161.4	24.2	36.2#
84	154.9	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.421 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

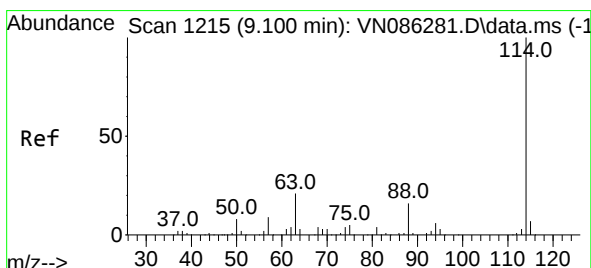
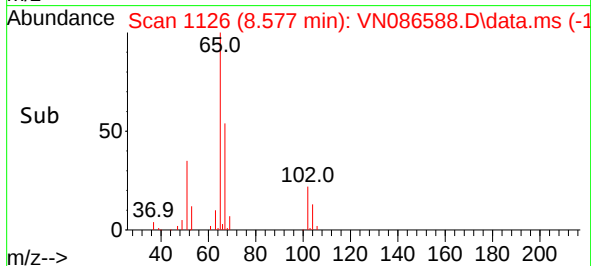
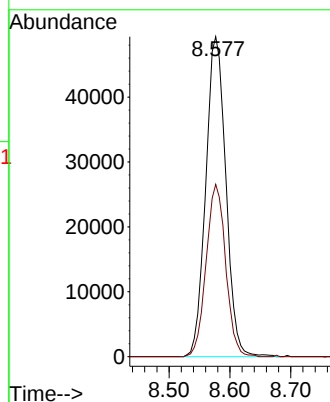
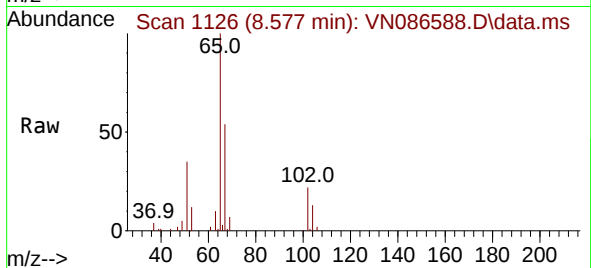
PB167932ZHE#13

Tgt Ion: 65 Resp: 112989

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

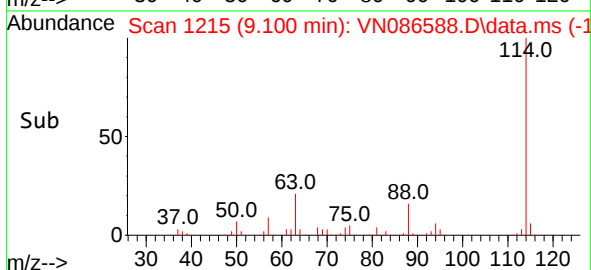
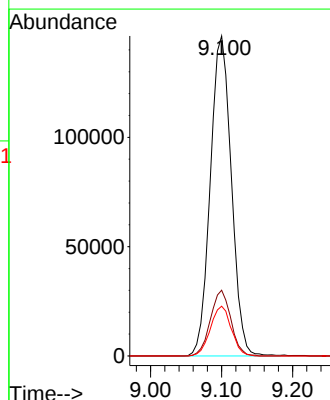
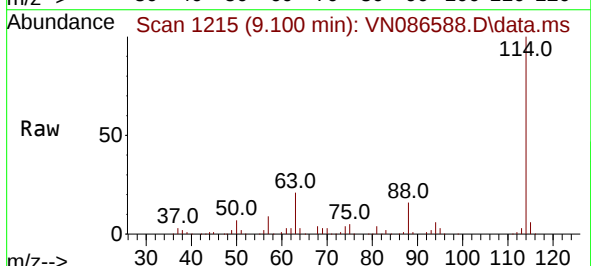
Tgt Ion: 114 Resp: 300760

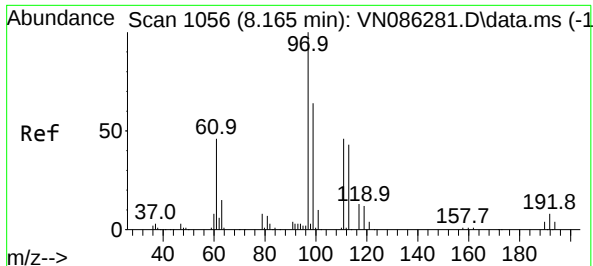
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.219 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

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PB167932ZHE#13

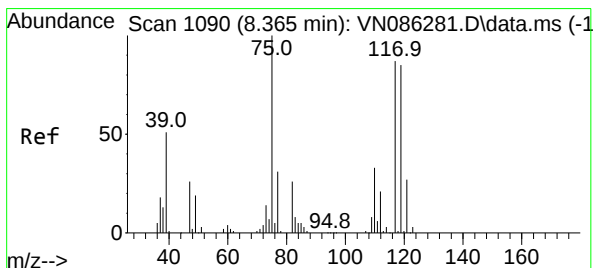
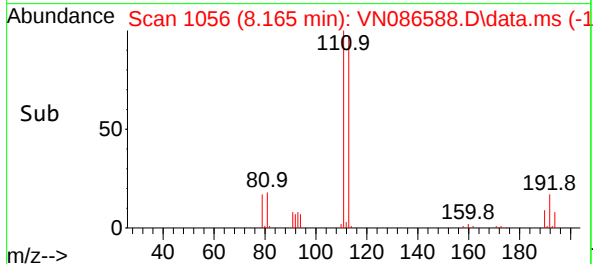
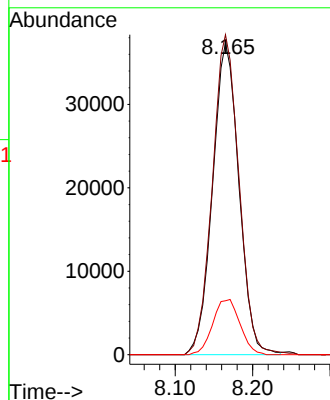
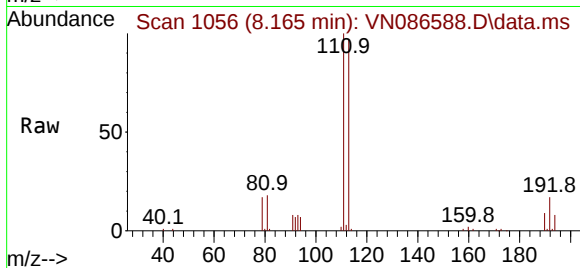
Tgt Ion:113 Resp: 88245

Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.0

192 18.4 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.670 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

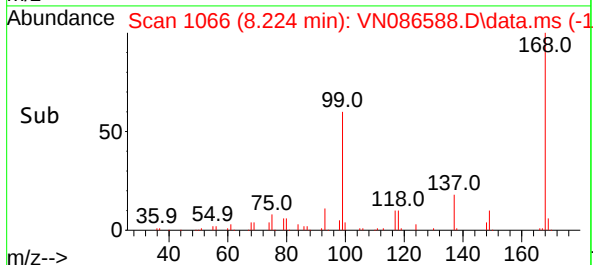
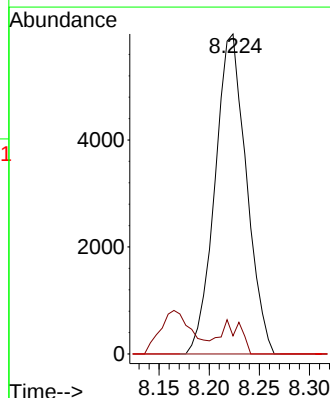
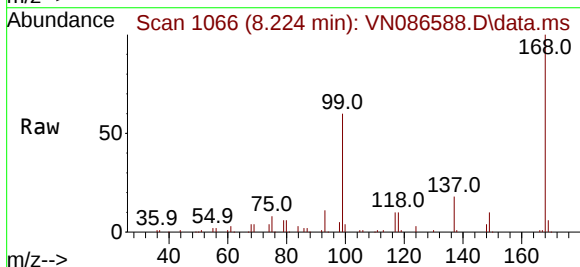
Tgt Ion: 75 Resp: 13019

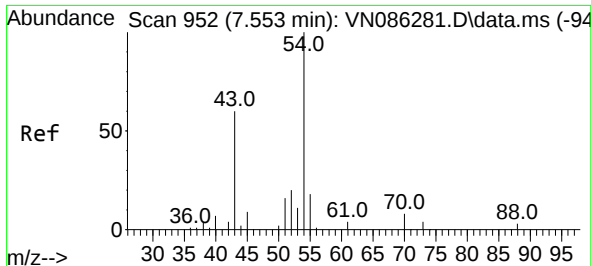
Ion Ratio Lower Upper

75 100

110 6.8 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.213 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#13

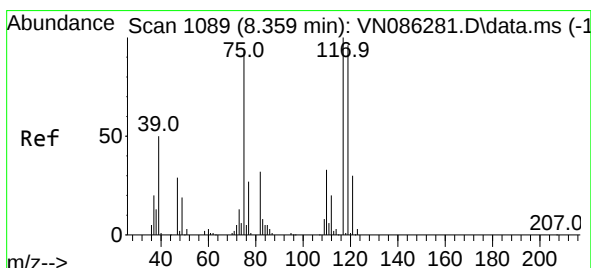
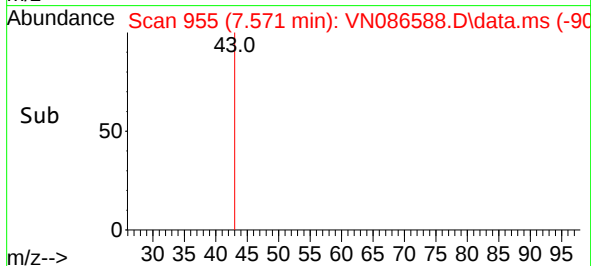
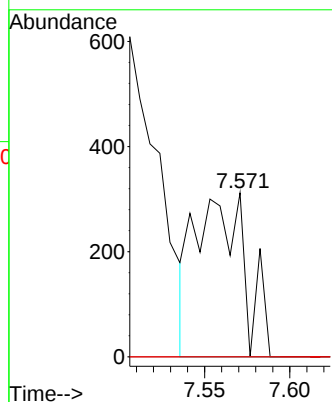
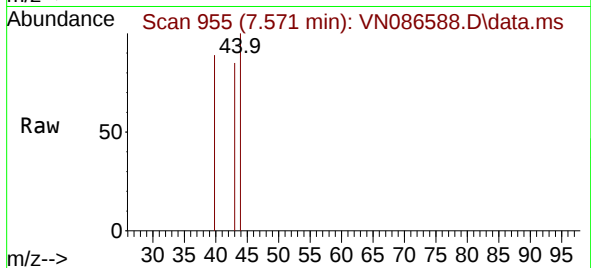
Tgt Ion: 43 Resp: 625

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 5.787 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

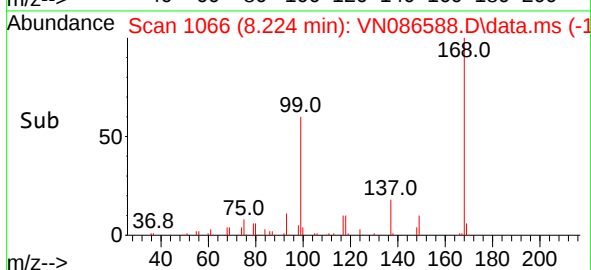
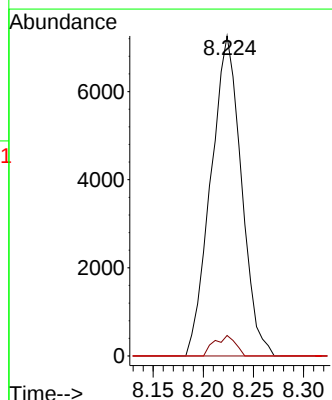
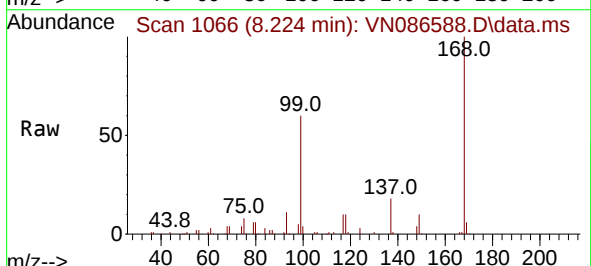
Tgt Ion: 117 Resp: 15366

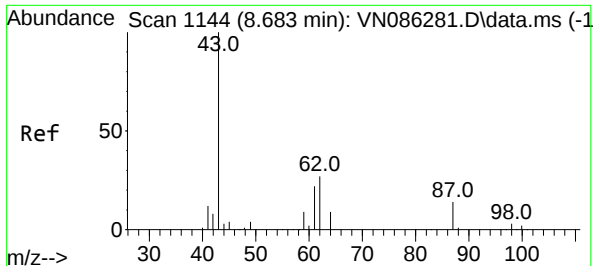
Ion Ratio Lower Upper

117 100

119 6.4 76.8 115.2#

121 0.0 23.8 35.8#

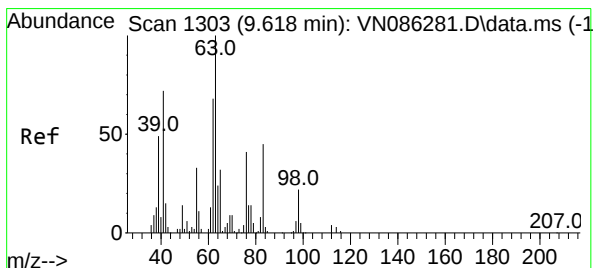
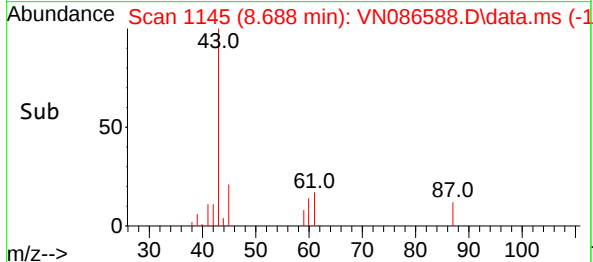
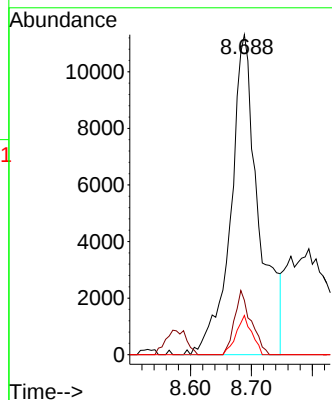
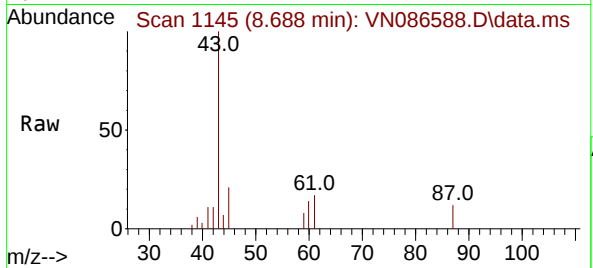




#43
Isopropyl Acetate
Concen: 5.048 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

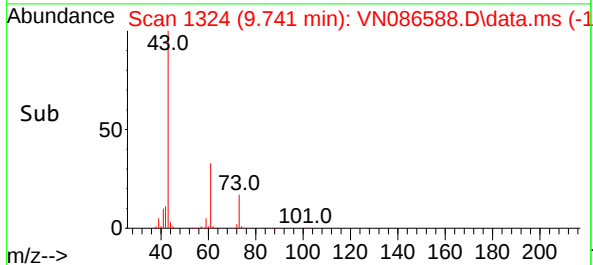
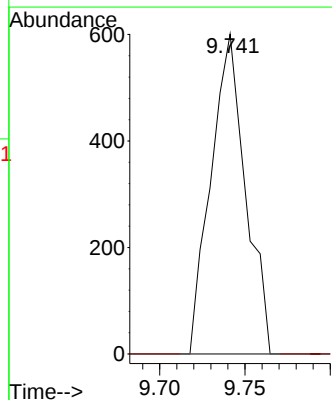
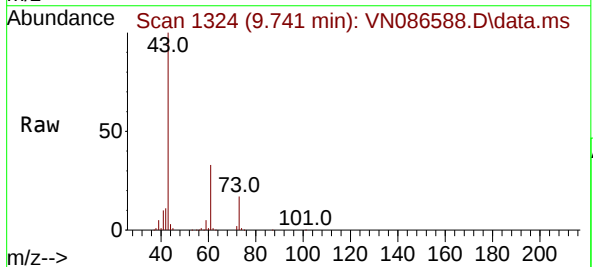
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

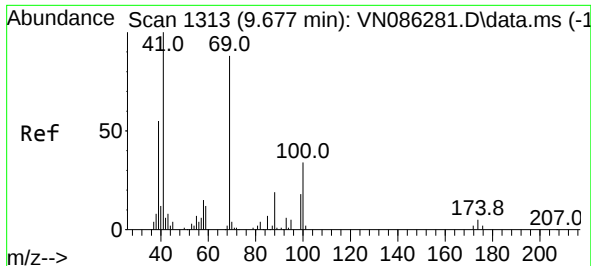
Tgt Ion: 43 Resp: 35939
Ion Ratio Lower Upper
43 100
61 12.0 20.5 30.7#
87 6.9 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.388 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion: 63 Resp: 849
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

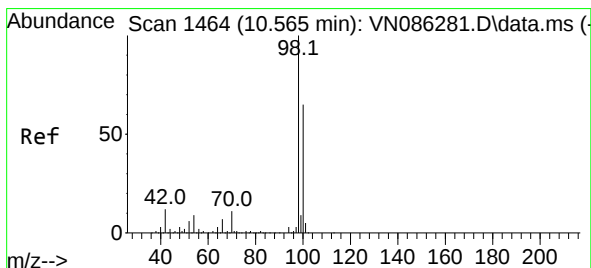
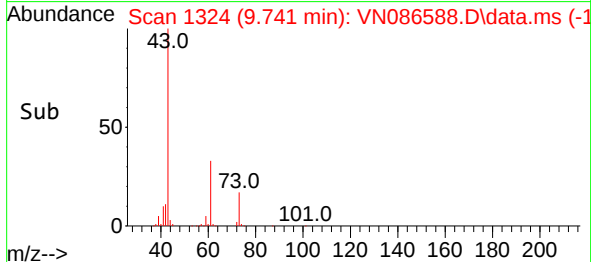
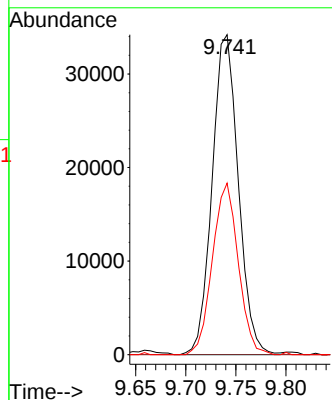
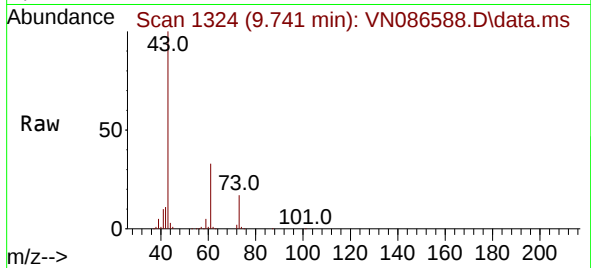




#48
Methyl methacrylate
Concen: 24.099 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

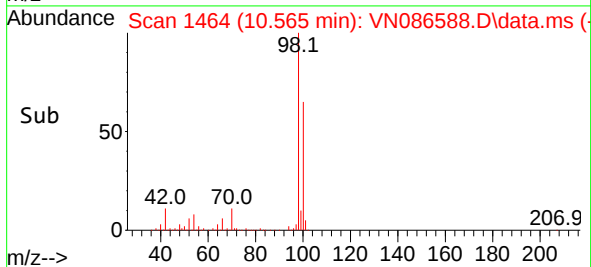
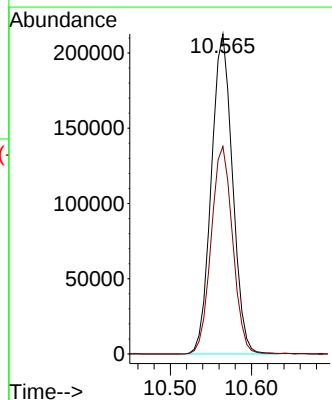
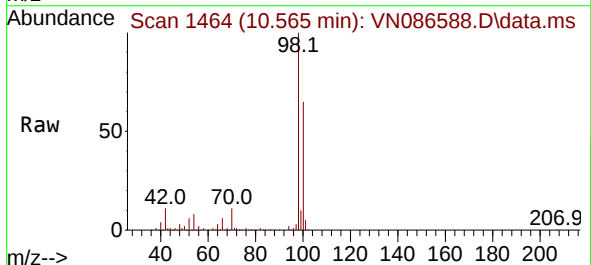
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

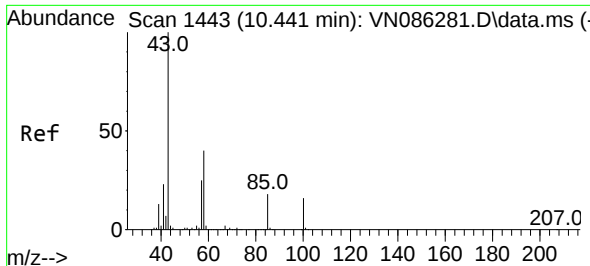
Tgt Ion: 41 Resp: 62117
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.9 45.2 67.8



#50
Toluene-d8
Concen: 51.621 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion: 98 Resp: 385105
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7

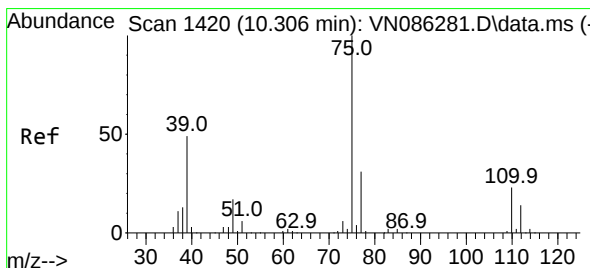
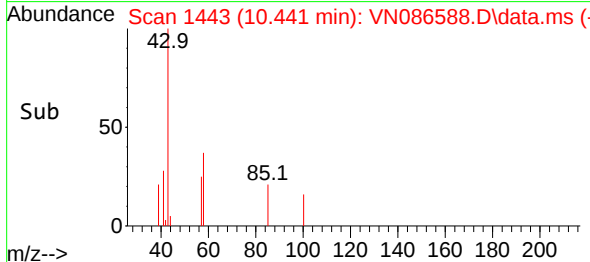
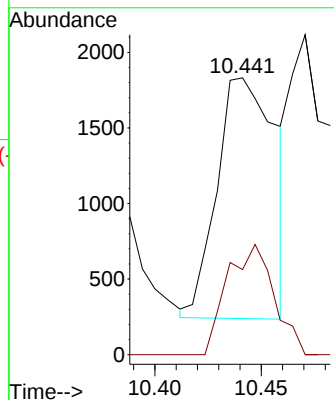
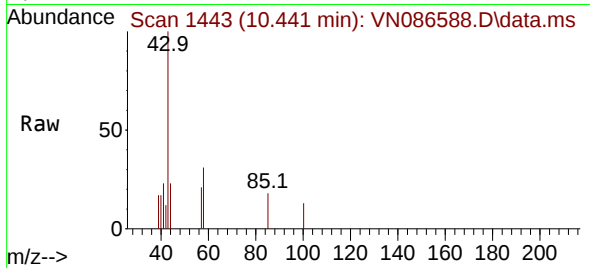




#51
4-Methyl-2-Pentanone
Concen: 1.008 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

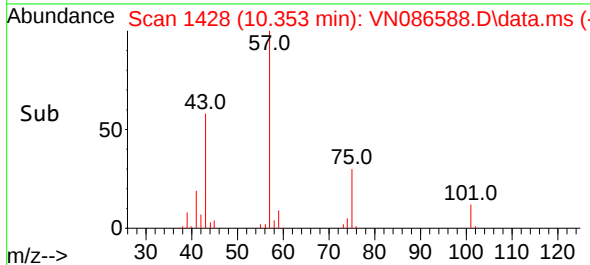
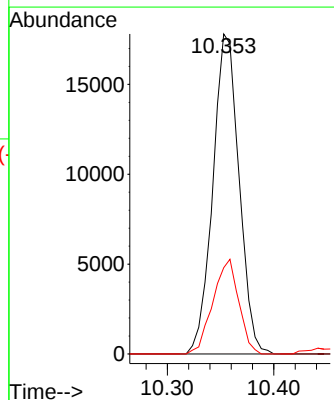
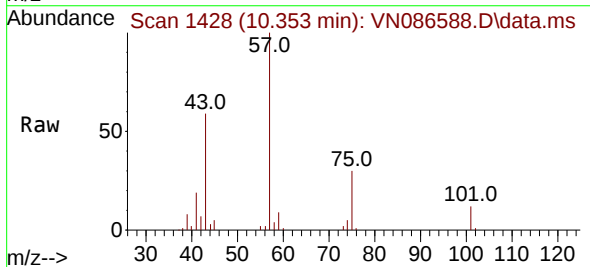
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

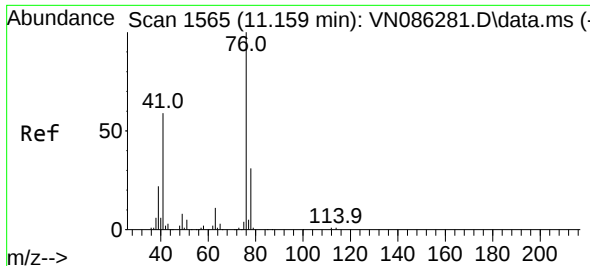
Tgt Ion: 43 Resp: 3031
Ion Ratio Lower Upper
43 100
58 36.8 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.253 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion: 75 Resp: 30446
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.0 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.890 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086588.D

Acq: 12 May 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

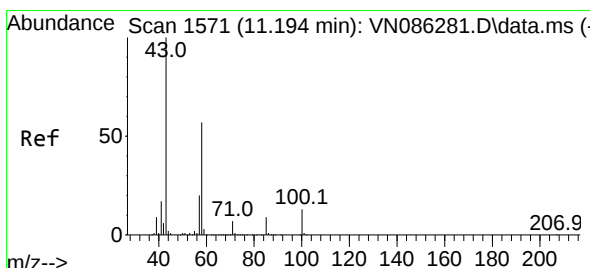
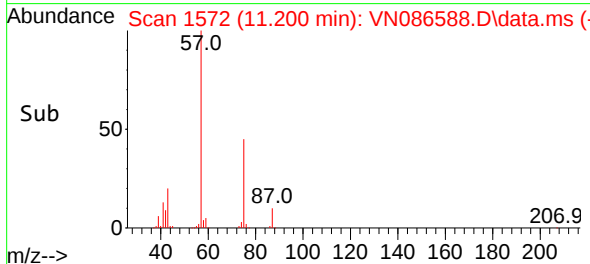
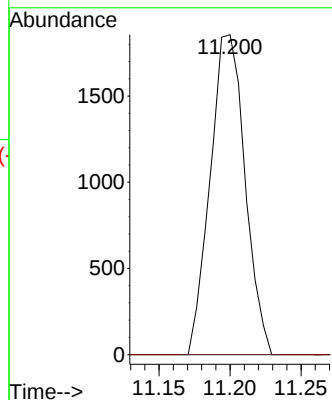
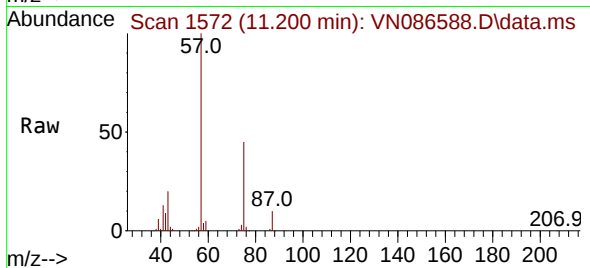
PB167932ZHE#13

Tgt Ion: 76 Resp: 3167

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.977 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086588.D

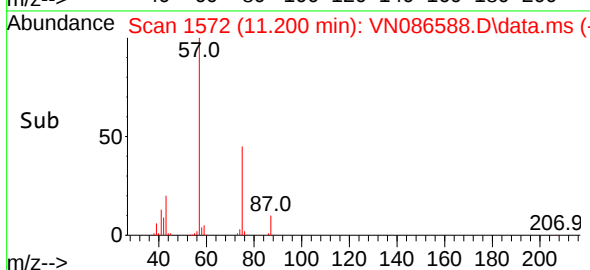
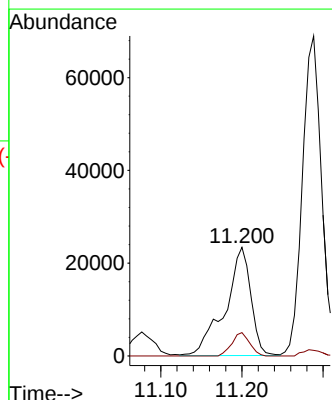
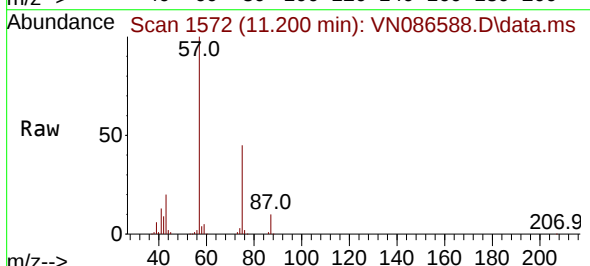
Acq: 12 May 2025 18:06

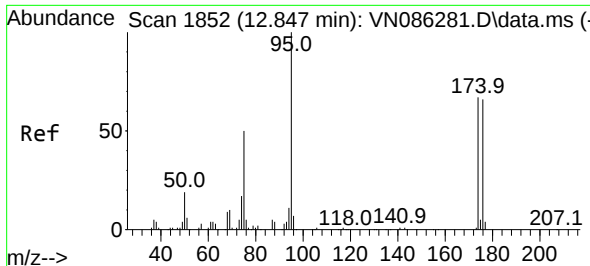
Tgt Ion: 43 Resp: 51225

Ion Ratio Lower Upper

43 100

58 15.0 28.3 85.0#

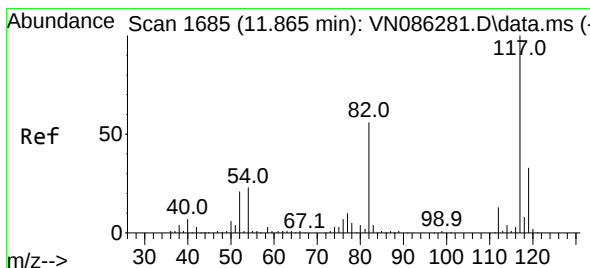
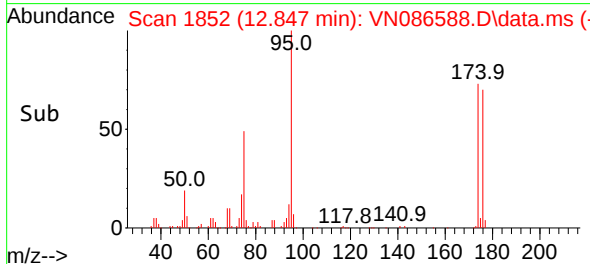
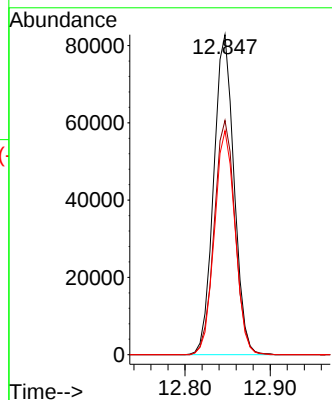
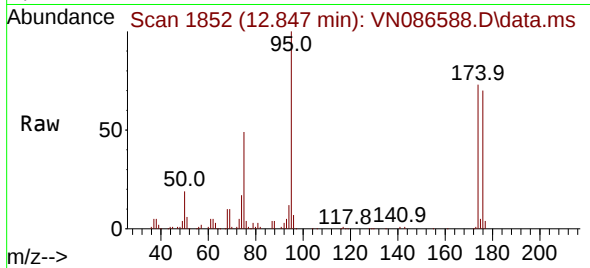




#62
4-Bromofluorobenzene
Concen: 50.534 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

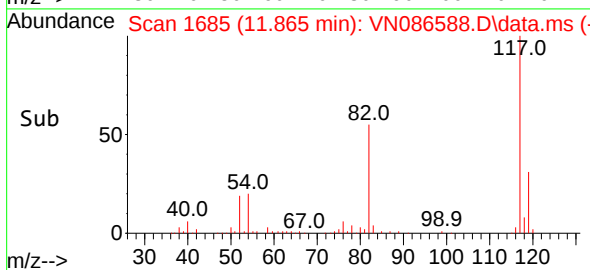
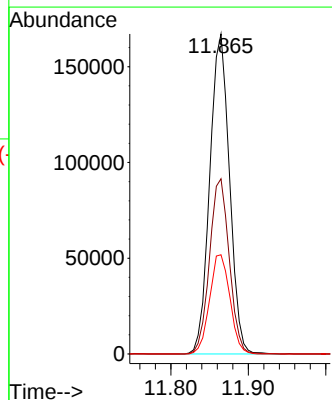
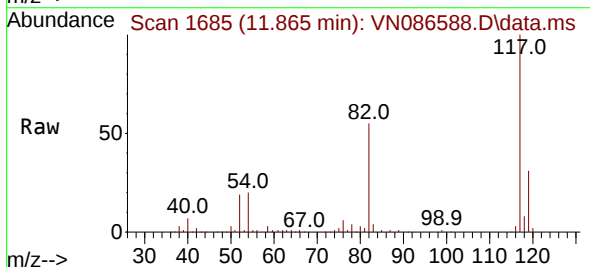
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

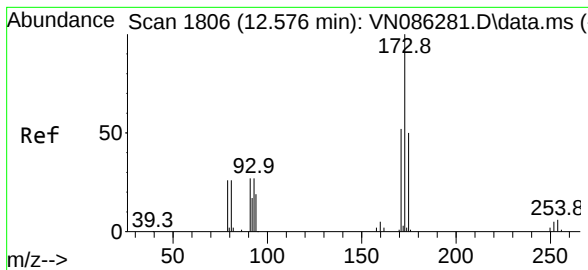
Tgt Ion: 95 Resp: 137505
Ion Ratio Lower Upper
95 100
174 75.1 0.0 133.4
176 71.0 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion: 117 Resp: 295000
Ion Ratio Lower Upper
117 100
82 54.8 44.7 67.1
119 31.0 26.4 39.6

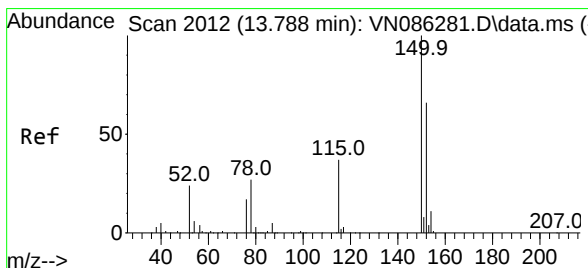
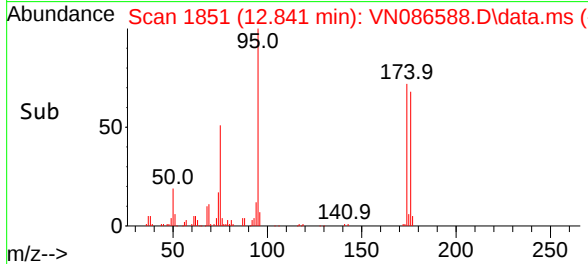
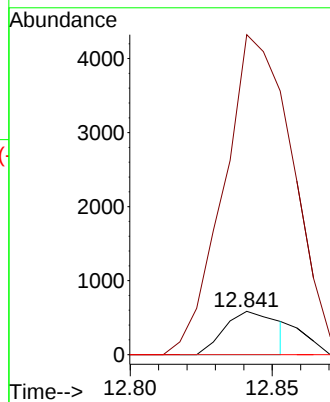
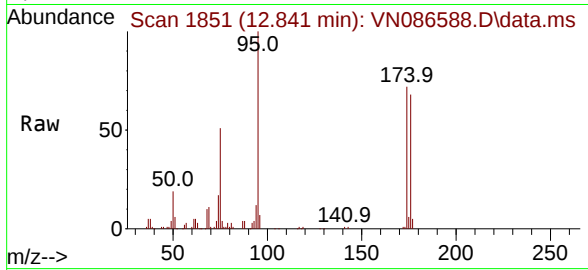




#71
Bromoform
Concen: 0.469 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

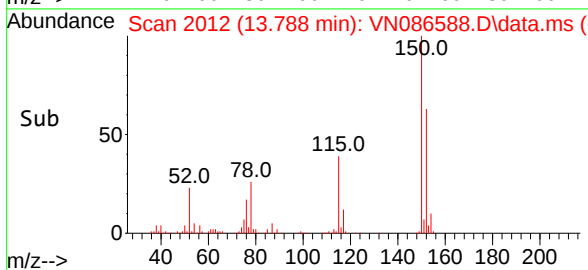
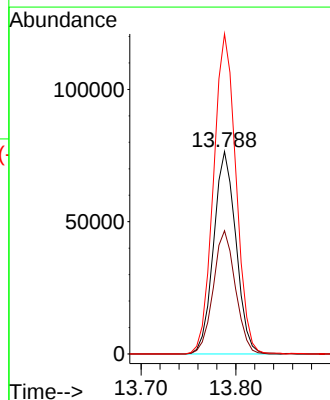
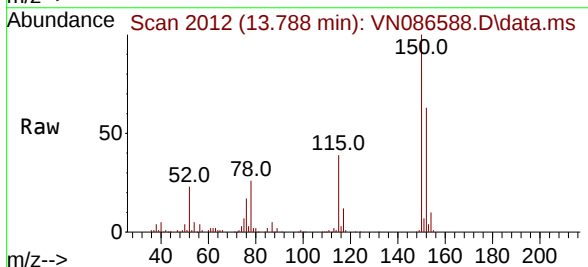
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

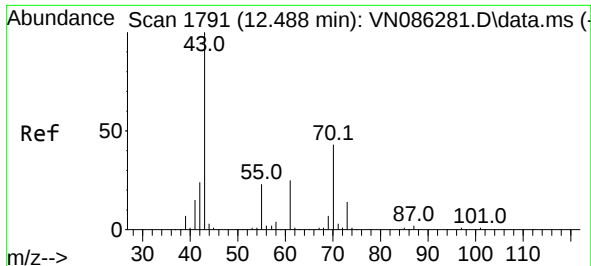
Tgt Ion:173 Resp: 767
Ion Ratio Lower Upper
173 100
175 785.9 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion:152 Resp: 125423
Ion Ratio Lower Upper
152 100
115 60.5 31.9 95.9
150 159.4 0.0 352.0

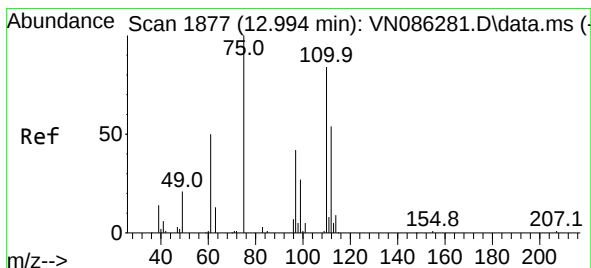
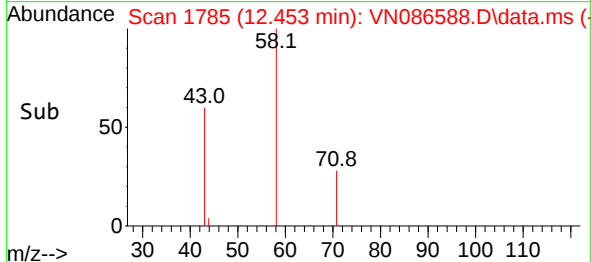
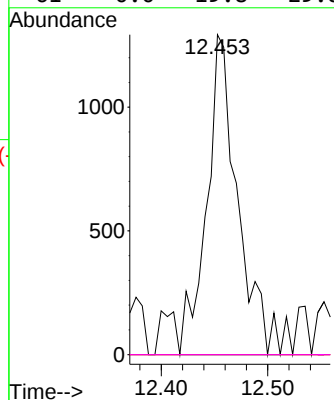
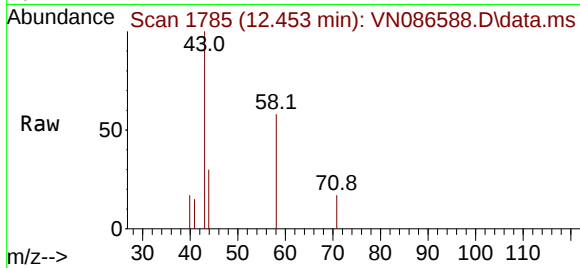




#74
N-amy1 acetate
Concen: 0.509 ug/l
RT: 12.453 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

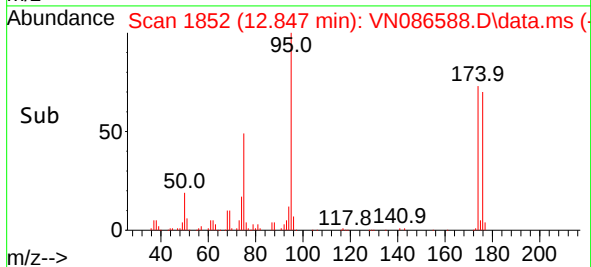
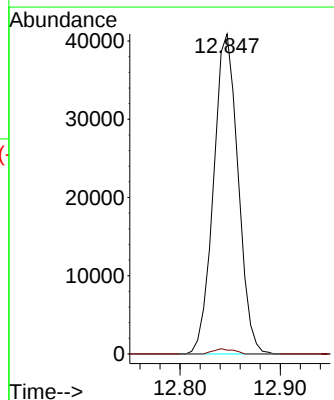
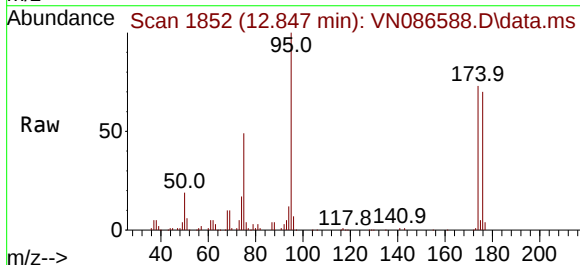
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#13

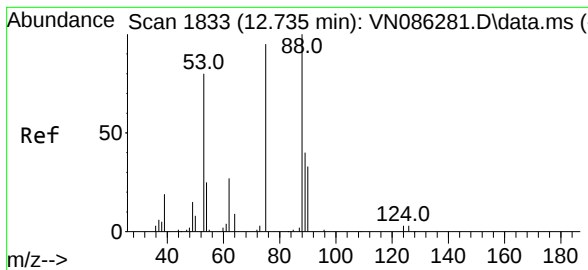
Tgt Ion: 43	Resp: 2601
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.485 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086588.D
Acq: 12 May 2025 18:06

Tgt Ion: 75	Resp: 69510
Ion Ratio	Lower Upper
75 100	
77 1.3	98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.402 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086588.D
 Acq: 12 May 2025 18:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#13

Tgt Ion: 75 Resp: 69510
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

