

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
 Data File : VN087192.D
 Acq On : 26 Jun 2025 14:08
 Operator : JC\MD
 Sample : Q2399-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

Quant Time: Jun 27 01:25:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

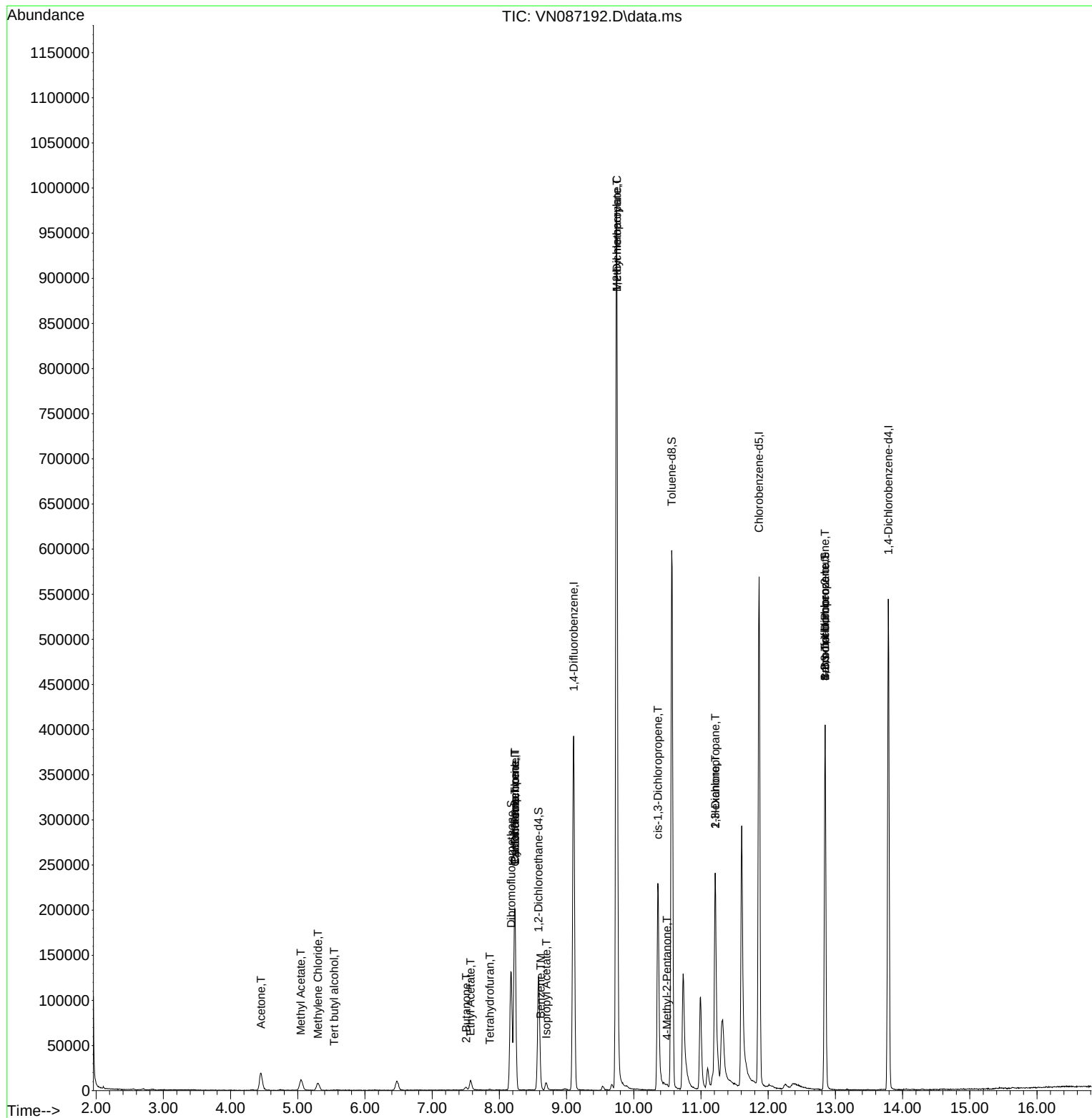
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	153701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	346353	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	148433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	106109	51.562	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 103.120%		
35) Dibromofluoromethane	8.177	113	101829	49.611	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 99.220%		
50) Toluene-d8	10.565	98	433318	53.328	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 106.660%		
62) 4-Bromofluorobenzene	12.847	95	151332	50.128	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 100.260%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.541	59	255	0.457	ug/l #	73
16) Acetone	4.453	43	40080	36.726	ug/l	91
18) Methyl Acetate	5.047	43	26393	8.299	ug/l	99
20) Methylene Chloride	5.300	84	7005	3.429	ug/l #	92
25) 2-Butanone	7.506	43	5994	3.379	ug/l	96
29) Tetrahydrofuran	7.859	42	711	0.615	ug/l #	36
31) Cyclohexane	8.229	56	3423	1.026	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	13156	4.301	ug/l #	48
37) Ethyl Acetate	7.571	43	16848	4.327	ug/l	97
38) Carbon Tetrachloride	8.235	117	15585	5.190	ug/l #	15
40) Benzene	8.612	78	3999	0.400	ug/l	95
43) Isopropyl Acetate	8.700	43	10095	1.615	ug/l #	87
45) 1,2-Dichloropropane	9.747	63	1210	0.497	ug/l #	43
48) Methyl methacrylate	9.747	41	90836	31.581	ug/l #	36
51) 4-Methyl-2-Pentanone	10.494	43	4849	1.289	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	52188	13.118	ug/l #	60
57) 1,3-Dichloropropane	11.212	76	3205	0.786	ug/l #	43
59) 2-Hexanone	11.212	43	41835	17.264	ug/l #	50
71) Bromoform	12.847	173	925	0.522	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	72919	20.667	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72919	47.574	ug/l #	16

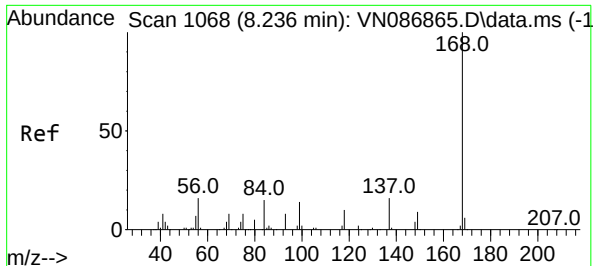
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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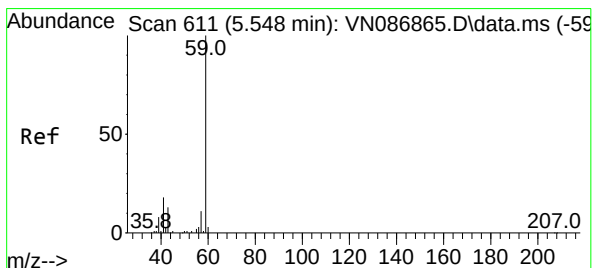
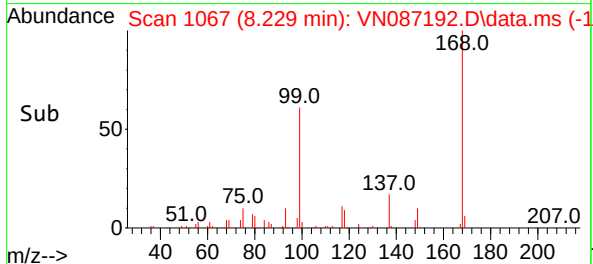
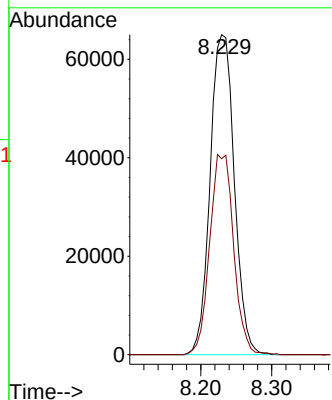
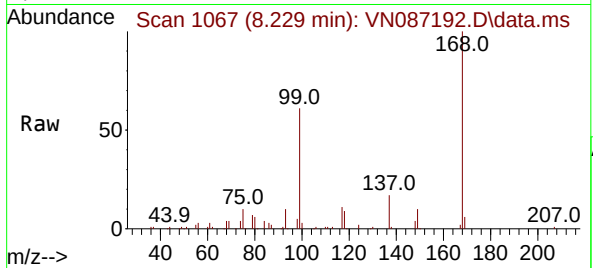




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.007 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

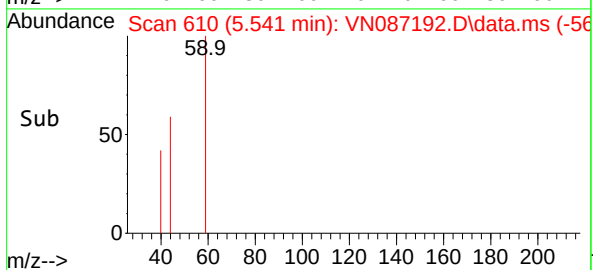
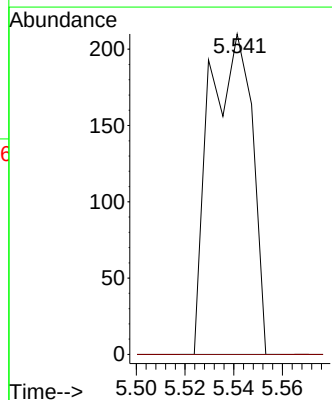
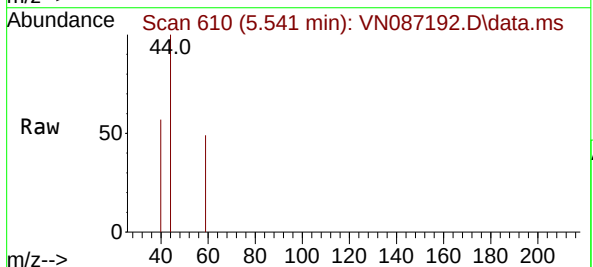
Instrument :
MSVOA_N
ClientSampleId :
TP-13

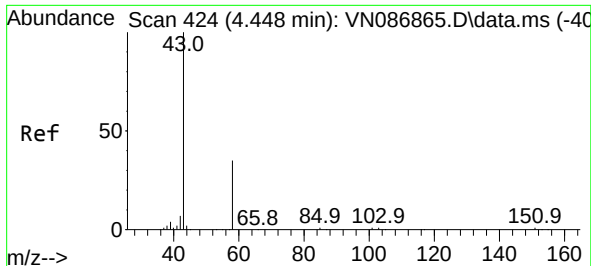
Tgt Ion:168 Resp: 153701
Ion Ratio Lower Upper
168 100
99 61.2 49.1 73.7



#11
Tert butyl alcohol
Concen: 0.457 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion: 59 Resp: 255
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

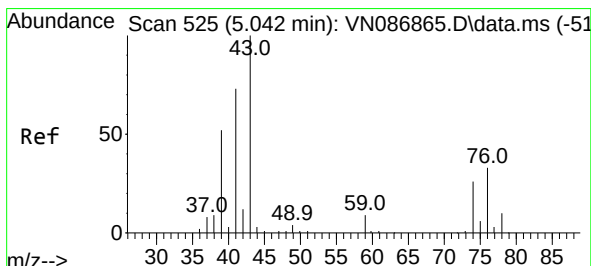
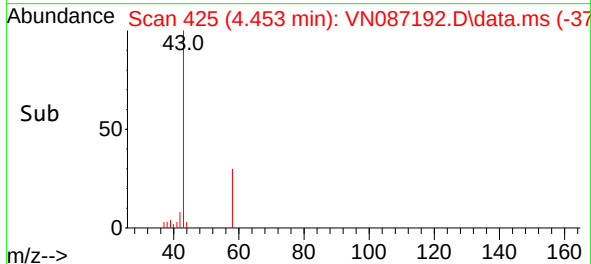
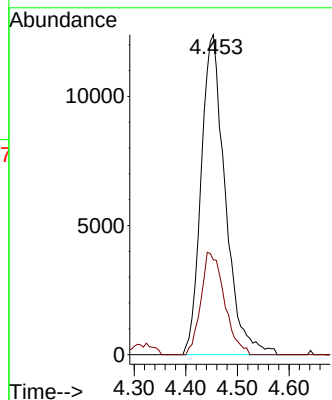
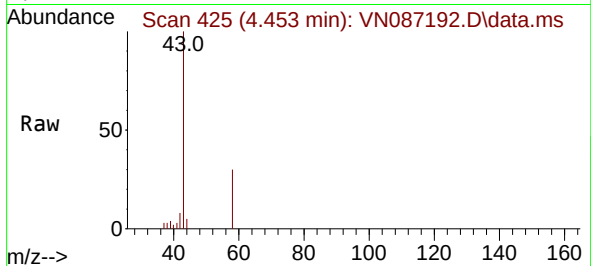




#16
Acetone
Concen: 36.726 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

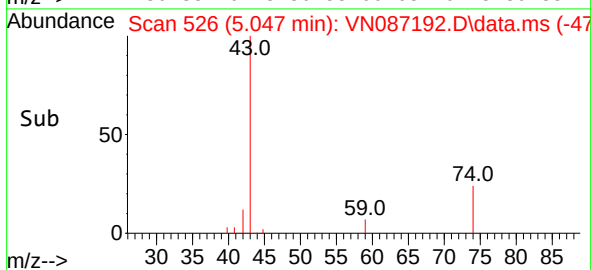
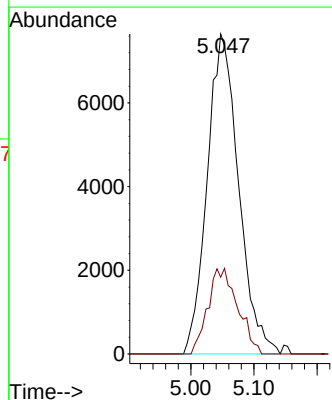
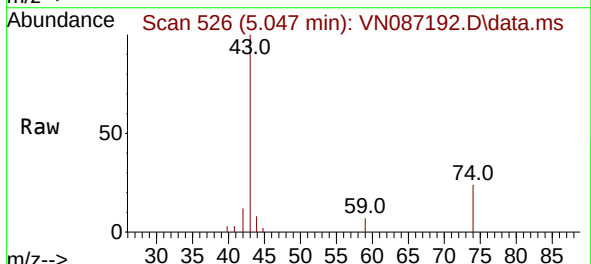
Instrument :
MSVOA_N
ClientSampleId :
TP-13

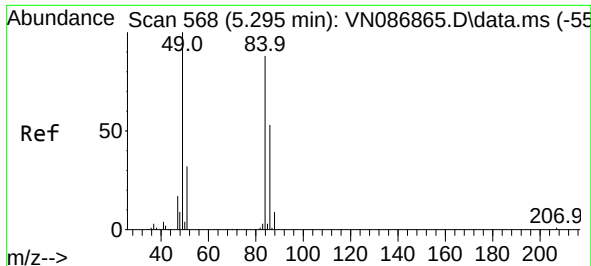
Tgt Ion: 43 Resp: 40080
Ion Ratio Lower Upper
43 100
58 29.7 28.0 42.0



#18
Methyl Acetate
Concen: 8.299 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion: 43 Resp: 26393
Ion Ratio Lower Upper
43 100
74 25.4 20.7 31.1





#20

Methylene Chloride

Concen: 3.429 ug/l

RT: 5.300 min Scan# 50

Delta R.T. 0.006 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

TP-13

Tgt Ion: 84 Resp: 7005

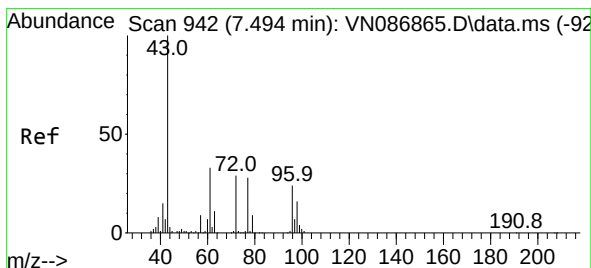
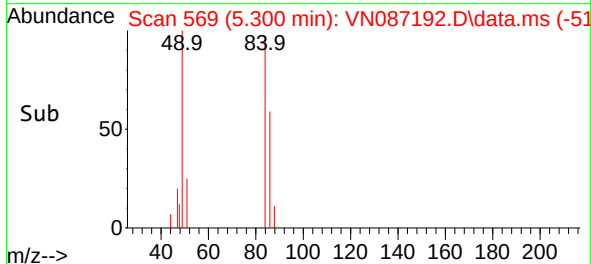
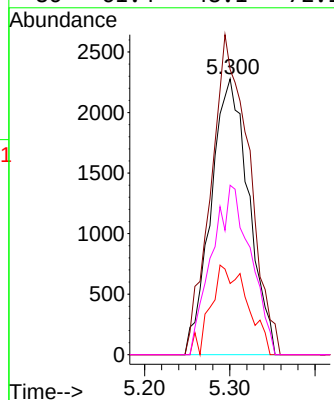
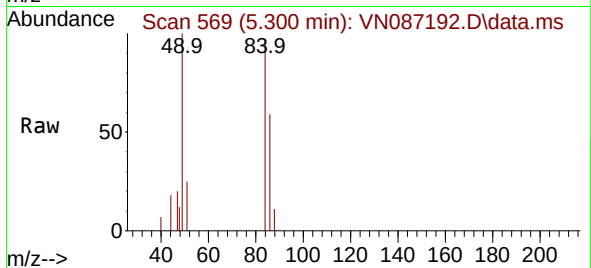
Ion Ratio Lower Upper

84 100

49 103.3 90.5 135.7

51 25.8 28.5 42.7#

86 61.4 48.1 72.1



#25

2-Butanone

Concen: 3.379 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.012 min

Lab File: VN087192.D

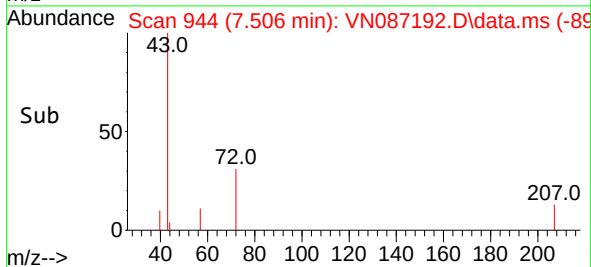
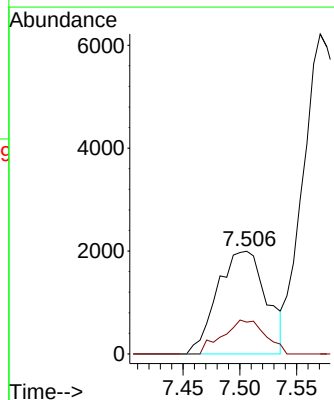
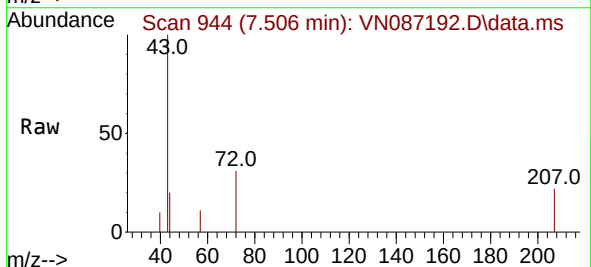
Acq: 26 Jun 2025 14:08

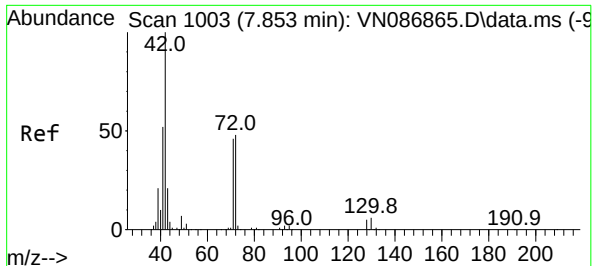
Tgt Ion: 43 Resp: 5994

Ion Ratio Lower Upper

43 100

72 31.1 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.615 ug/l

RT: 7.859 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

TP-13

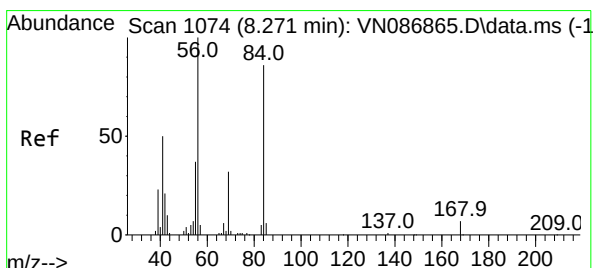
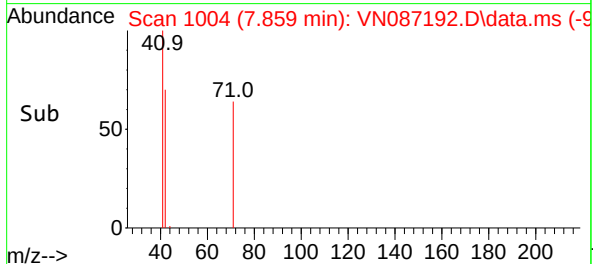
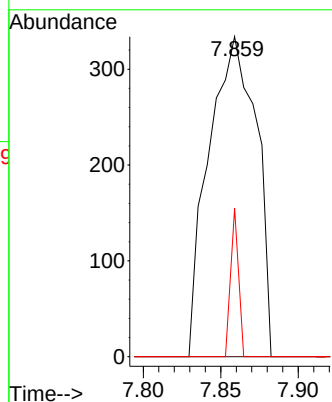
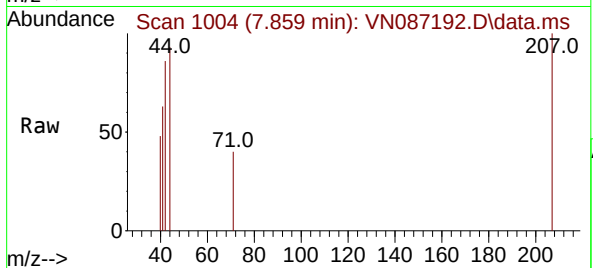
Tgt Ion: 42 Resp: 711

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 7.7 35.6 53.4#



#31

Cyclohexane

Concen: 1.026 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

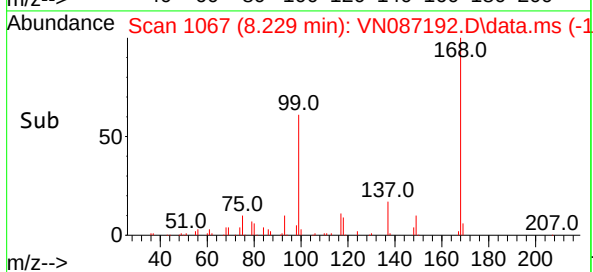
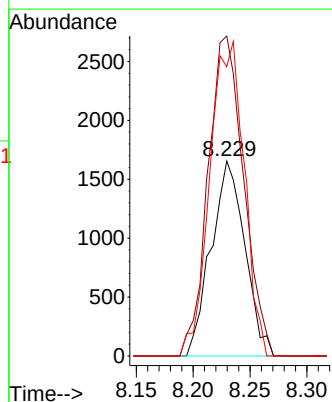
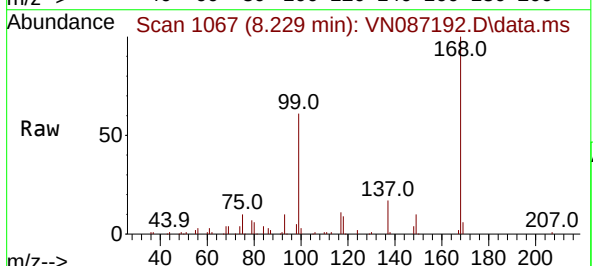
Tgt Ion: 56 Resp: 3423

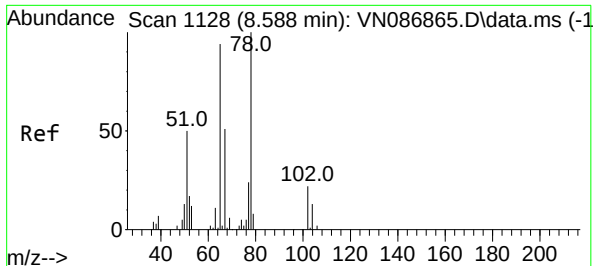
Ion Ratio Lower Upper

56 100

69 164.3 25.4 38.0#

84 148.5 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 51.562 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

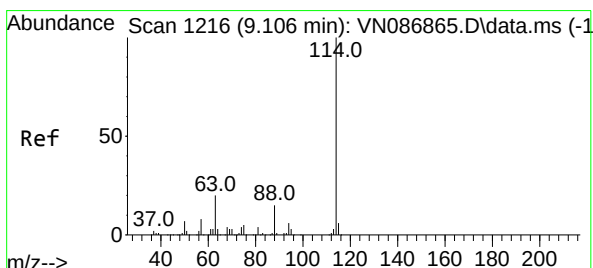
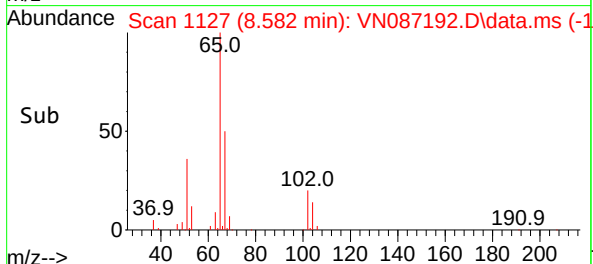
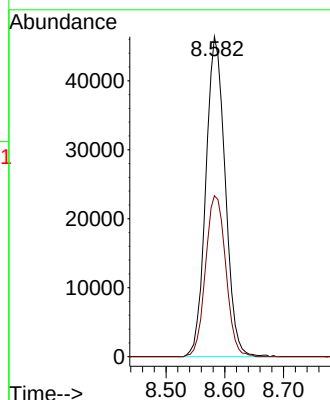
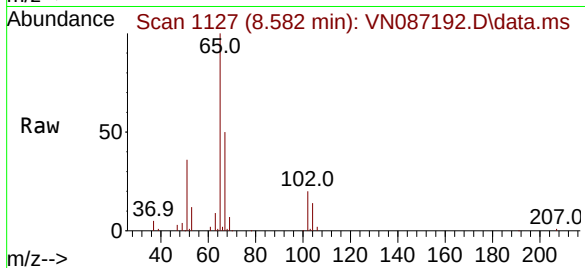
TP-13

Tgt Ion: 65 Resp: 106109

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

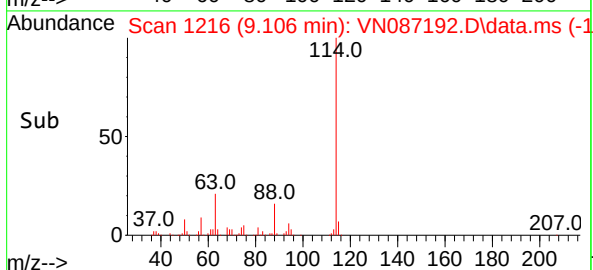
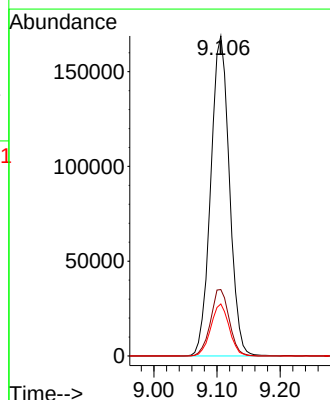
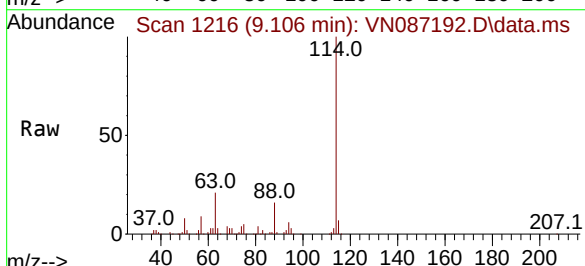
Tgt Ion: 114 Resp: 346353

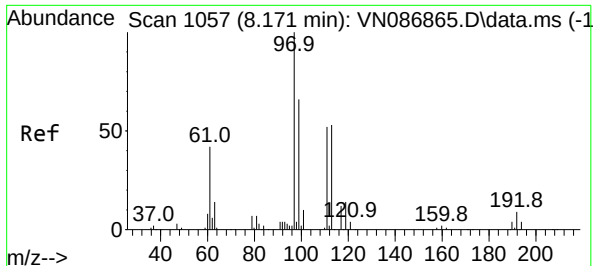
Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

88 16.3 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.611 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

TP-13

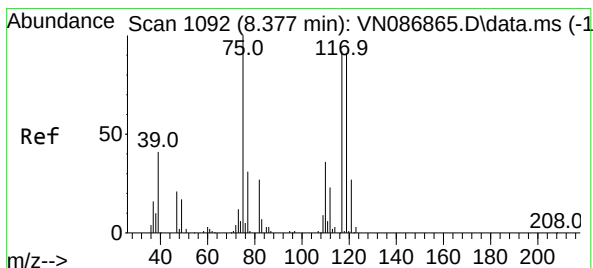
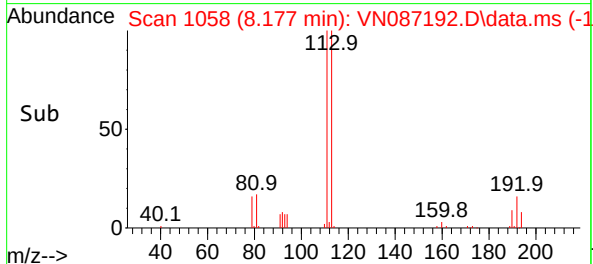
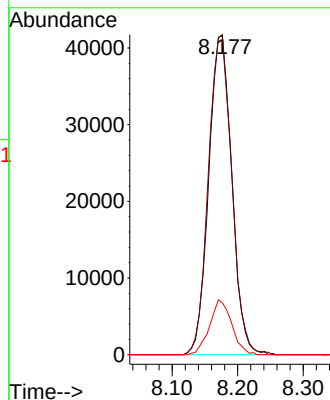
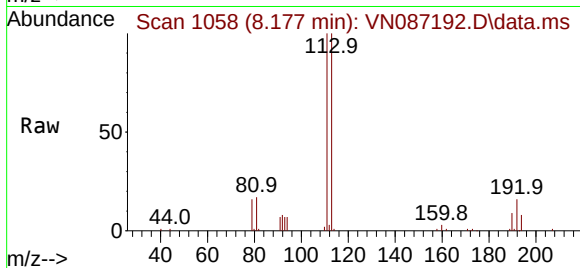
Tgt Ion:113 Resp: 101829

Ion Ratio Lower Upper

113 100

111 101.5 84.2 126.2

192 16.5 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.301 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

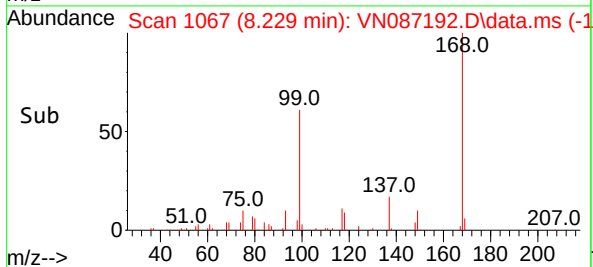
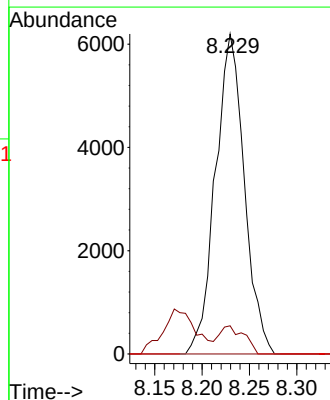
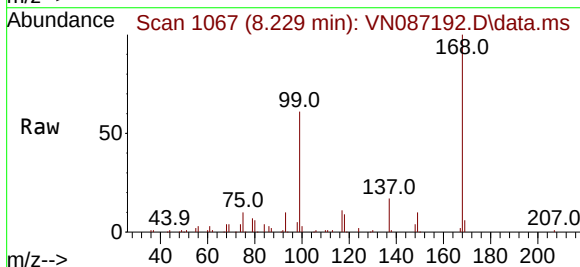
Tgt Ion: 75 Resp: 13156

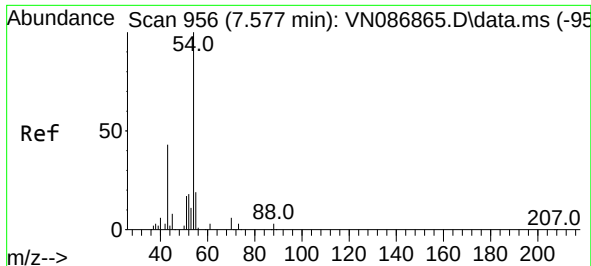
Ion Ratio Lower Upper

75 100

110 7.4 17.6 52.9#

77 0.0 25.3 37.9#

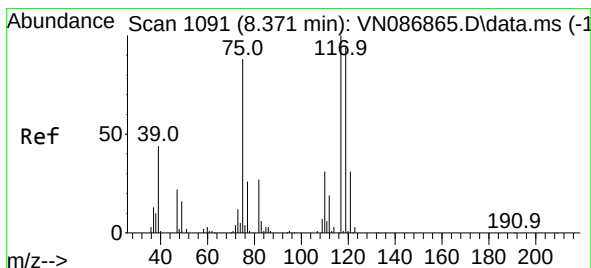
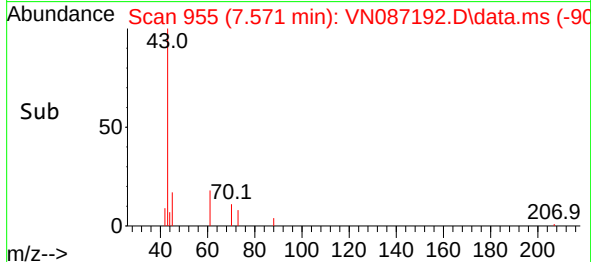
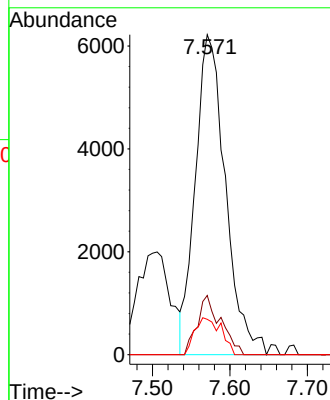
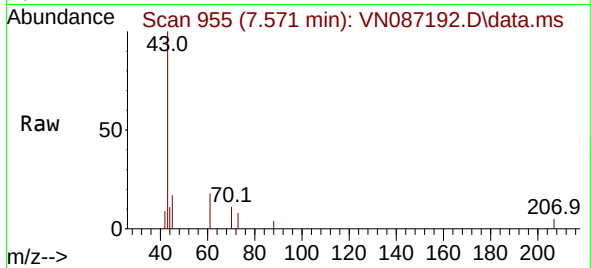




#37
Ethyl Acetate
Concen: 4.327 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

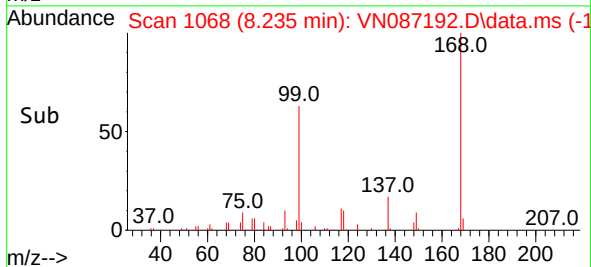
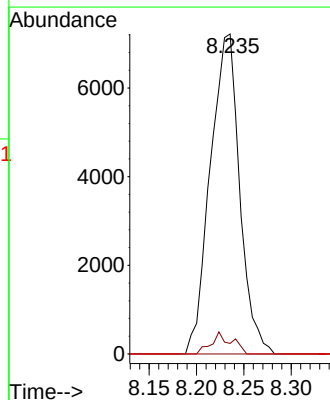
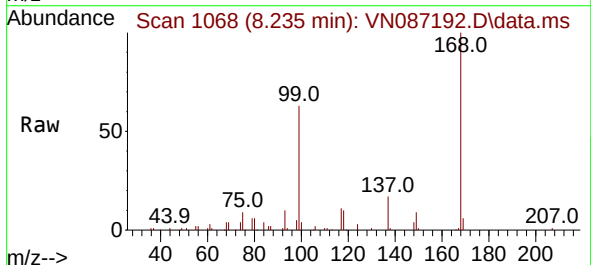
Instrument :
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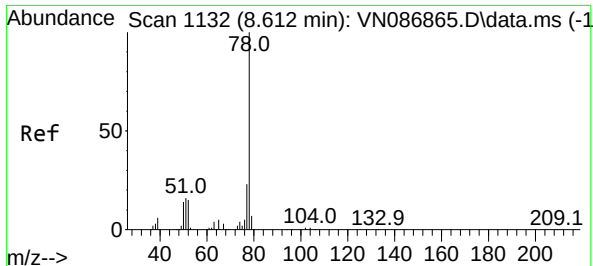
Tgt Ion:	43	Resp:	16848
Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.1	18.1
70	10.0	9.8	14.6



#38
Carbon Tetrachloride
Concen: 5.190 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.136 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion:	117	Resp:	15585
Ion	Ratio	Lower	Upper
117	100		
119	3.3	75.0	112.6#
121	0.0	24.9	37.3#

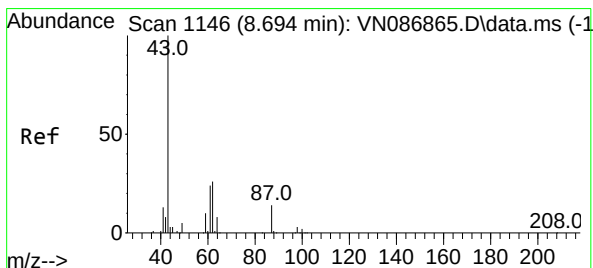
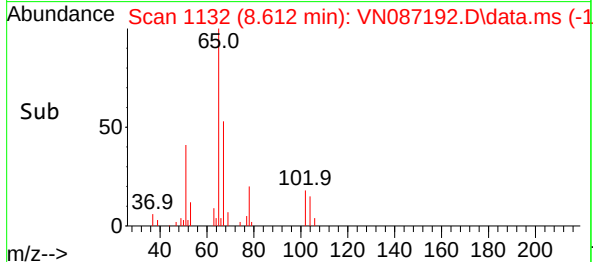
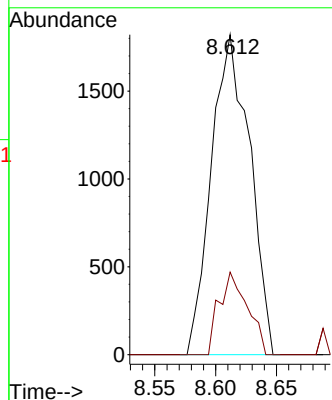
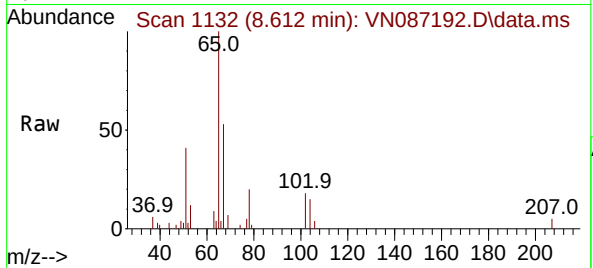




#40
Benzene
Concen: 0.400 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

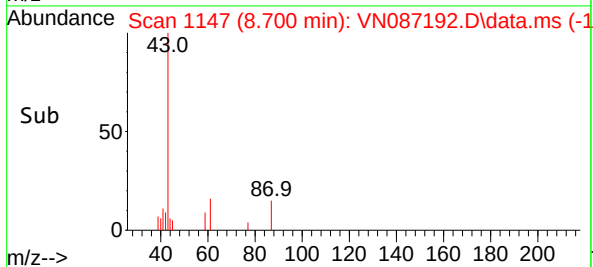
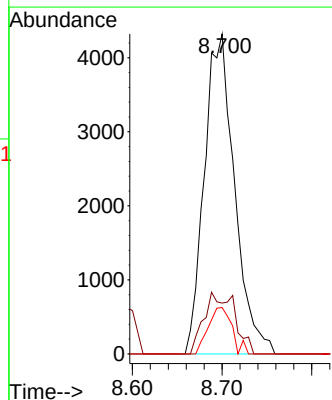
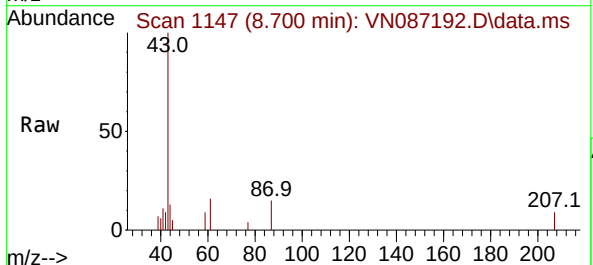
Instrument :
MSVOA_N
ClientSampleId :
TP-13

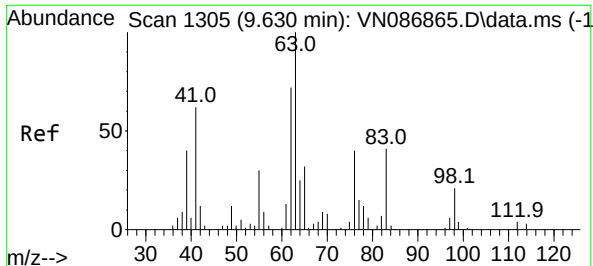
Tgt Ion: 78 Resp: 3999
Ion Ratio Lower Upper
78 100
77 25.8 18.7 28.1



#43
Isopropyl Acetate
Concen: 1.615 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion: 43 Resp: 10095
Ion Ratio Lower Upper
43 100
61 19.6 22.1 33.1#
87 11.3 11.8 17.6#





#45

1,2-Dichloropropane

Concen: 0.497 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.117 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

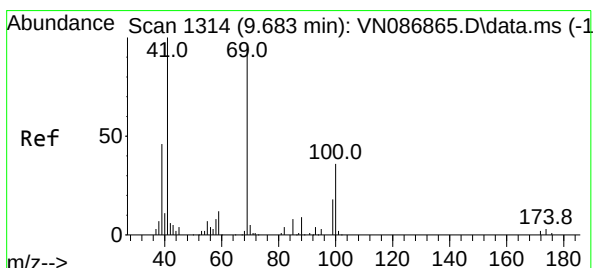
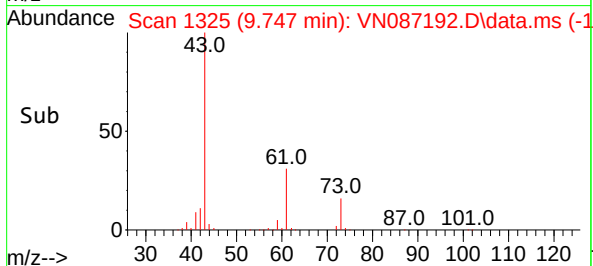
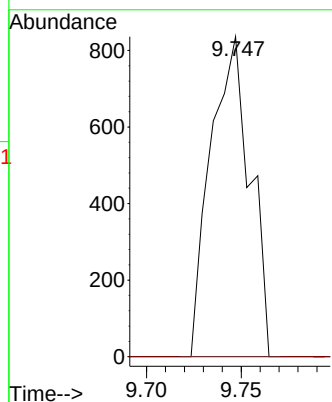
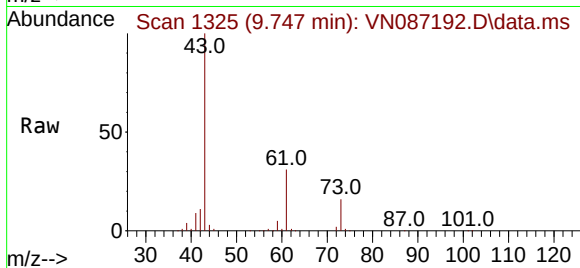
TP-13

Tgt Ion: 63 Resp: 1210

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 31.581 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.064 min

Lab File: VN087192.D

Acq: 26 Jun 2025 14:08

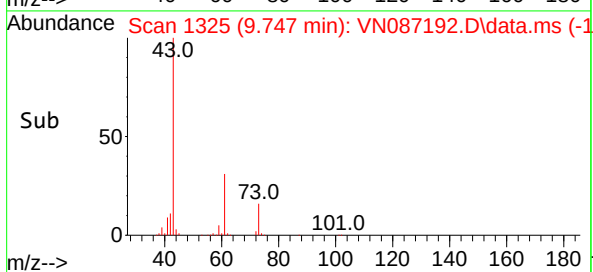
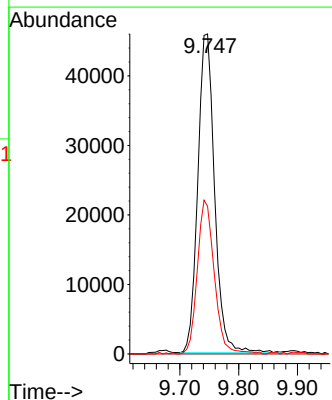
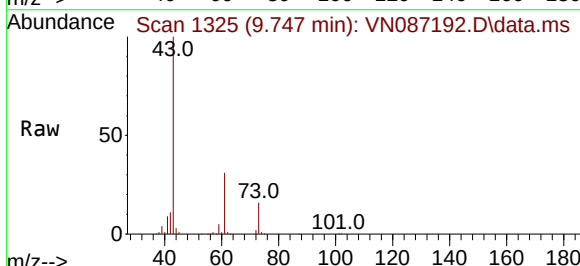
Tgt Ion: 41 Resp: 90836

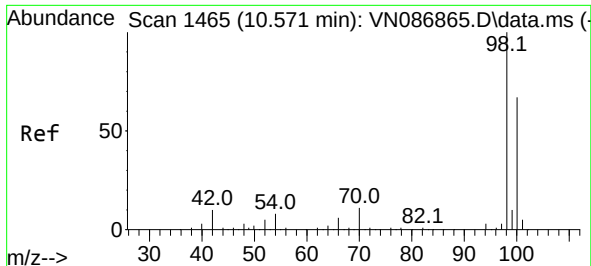
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 49.1 40.2 60.4

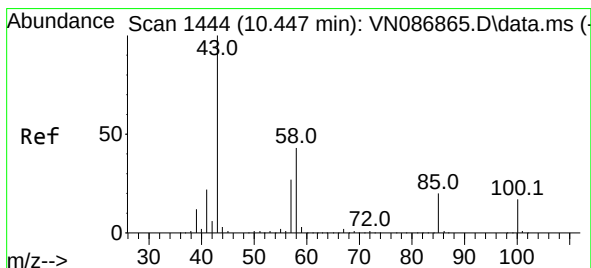
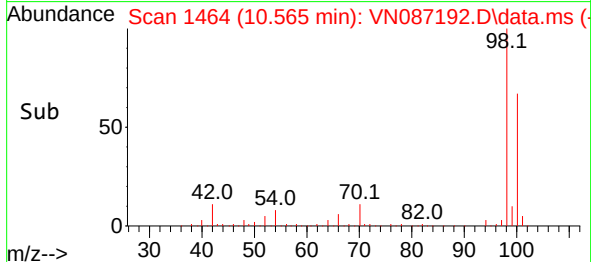
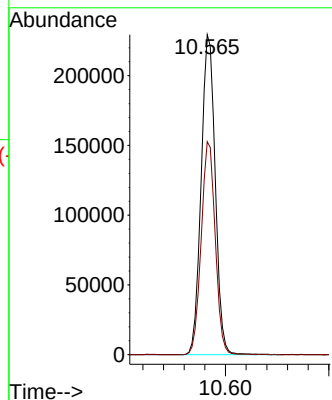
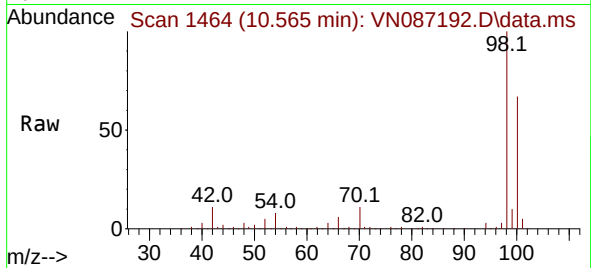




#50
Toluene-d8
Concen: 53.328 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

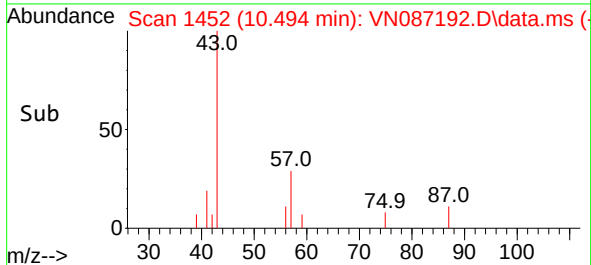
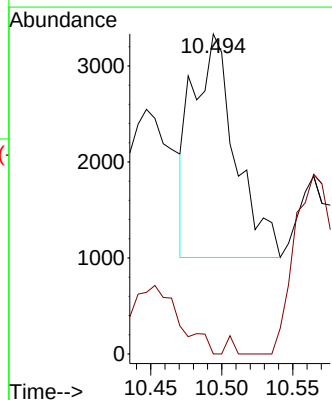
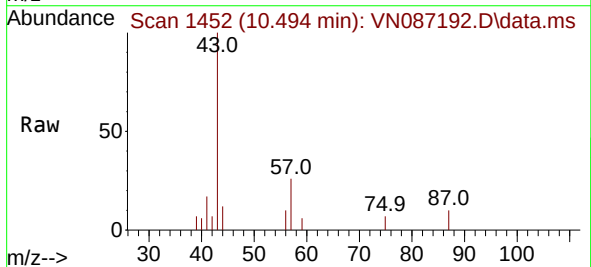
Instrument :
MSVOA_N
ClientSampleId :
TP-13

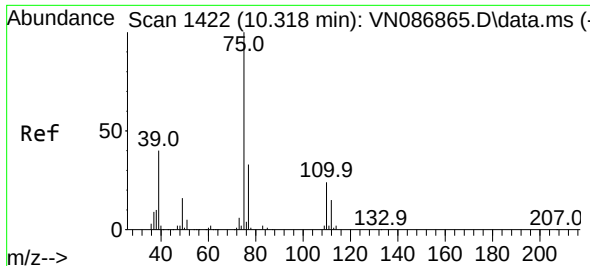
Tgt Ion: 98 Resp: 433318
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.289 ug/l
RT: 10.494 min Scan# 1452
Delta R.T. 0.047 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion: 43 Resp: 4849
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#

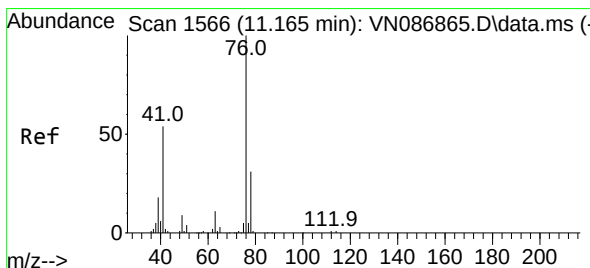
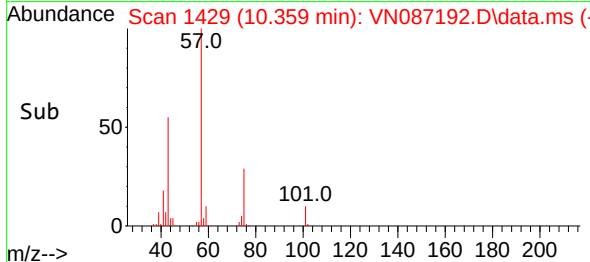
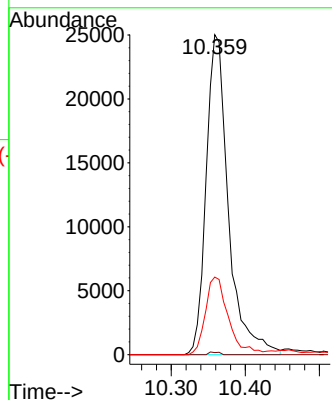
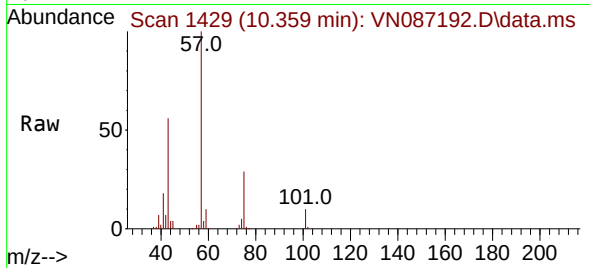




#54
cis-1,3-Dichloropropene
Concen: 13.118 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

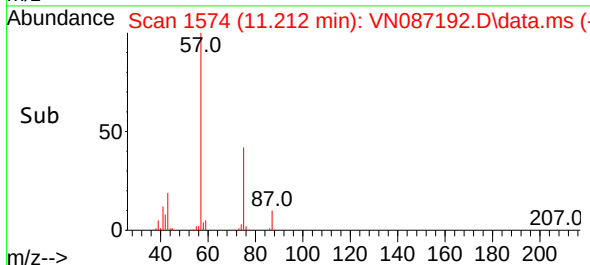
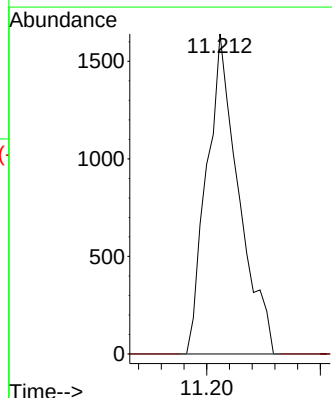
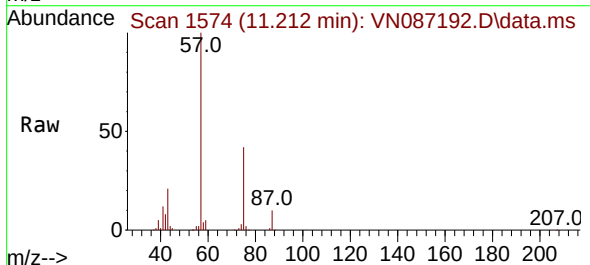
Instrument :
MSVOA_N
ClientSampleId :
TP-13

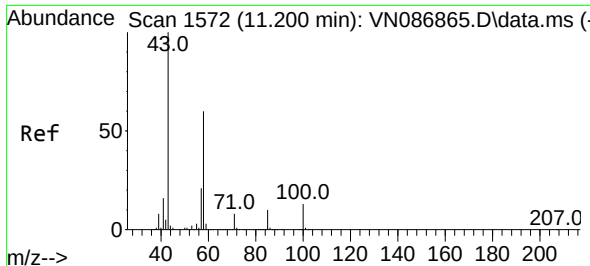
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	26.2	39.4#
39	24.2	32.3	48.5#



#57
1,3-Dichloropropane
Concen: 0.786 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.3	37.9#

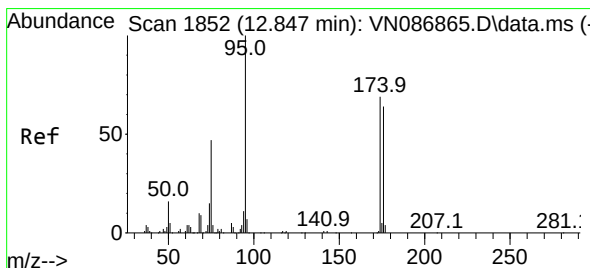
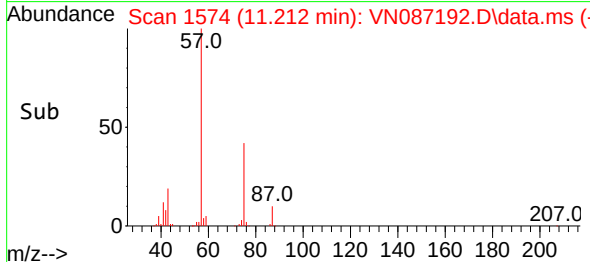
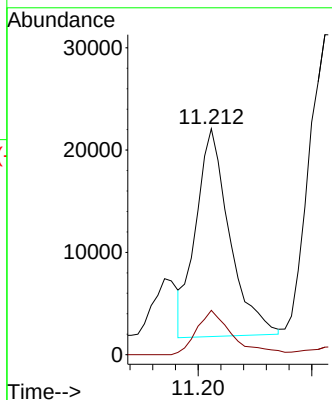
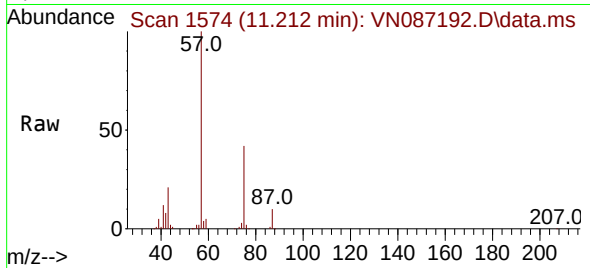




#59
2-Hexanone
Concen: 17.264 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

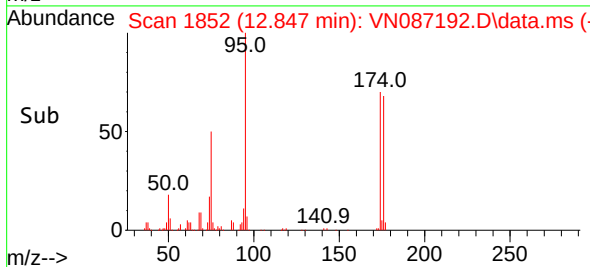
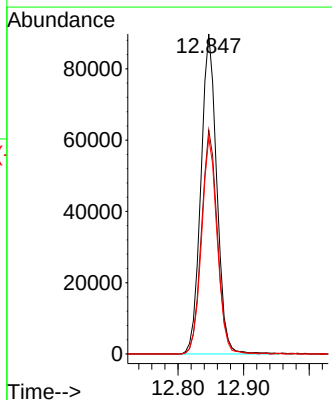
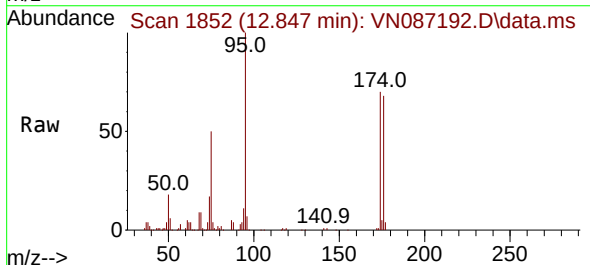
Instrument :
MSVOA_N
ClientSampleId :
TP-13

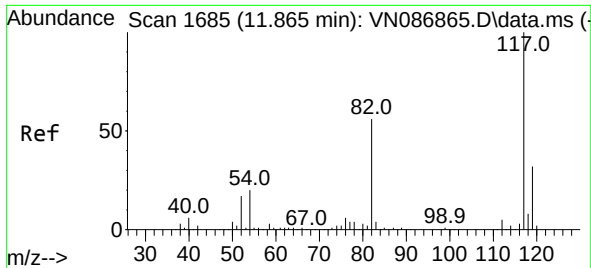
Tgt Ion: 43 Resp: 41835
Ion Ratio Lower Upper
43 100
58 22.6 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 50.128 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion: 95 Resp: 151332
Ion Ratio Lower Upper
95 100
174 70.3 0.0 141.8
176 66.6 0.0 132.6

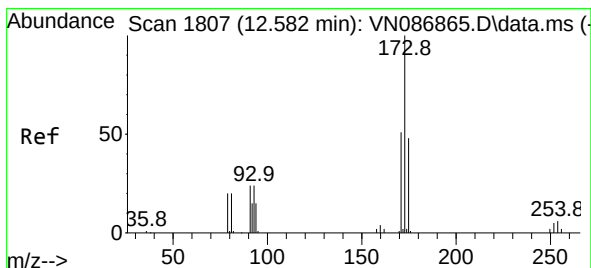
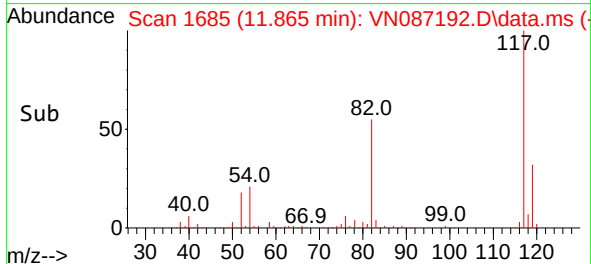
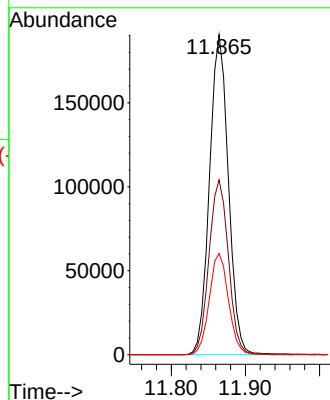
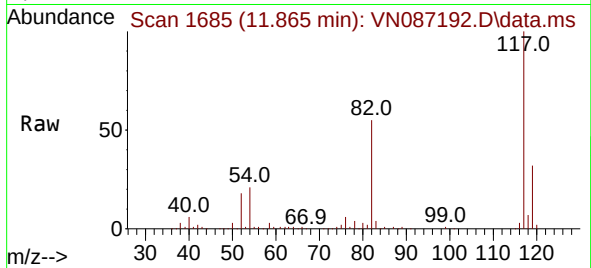




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

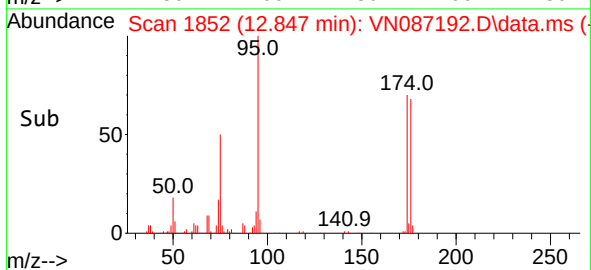
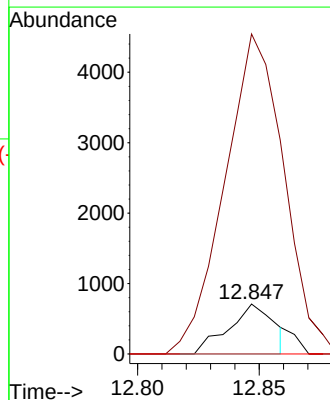
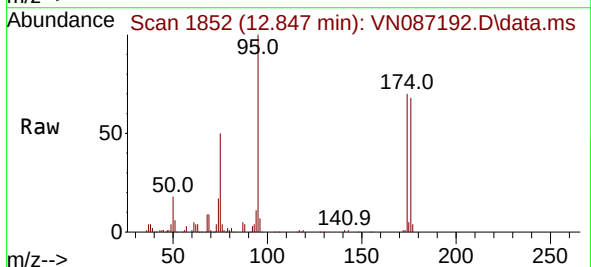
Instrument :
MSVOA_N
ClientSampleId :
TP-13

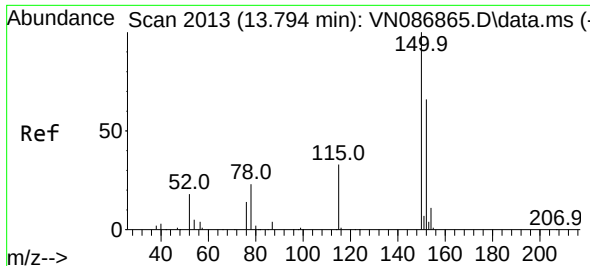
Tgt Ion:117 Resp: 337445
Ion Ratio Lower Upper
117 100
82 54.6 44.6 67.0
119 31.6 25.5 38.3



#71
Bromoform
Concen: 0.522 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.264 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

Tgt Ion:173 Resp: 925
Ion Ratio Lower Upper
173 100
175 739.4 24.1 72.4#
254 0.0 0.0 0.0

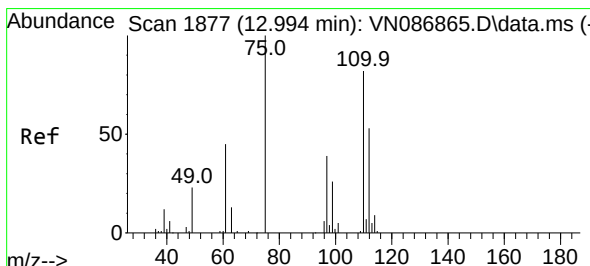
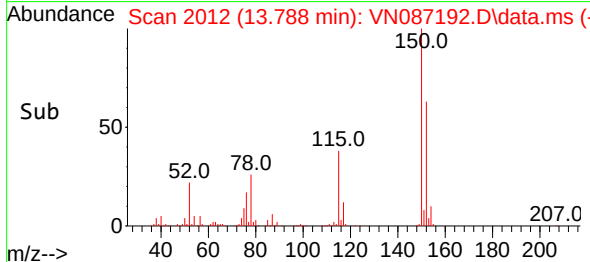
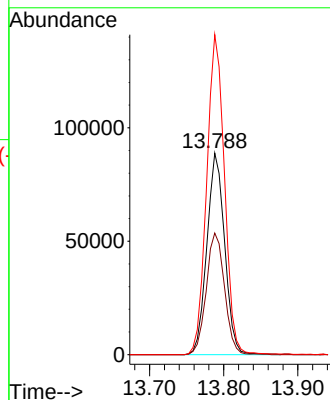
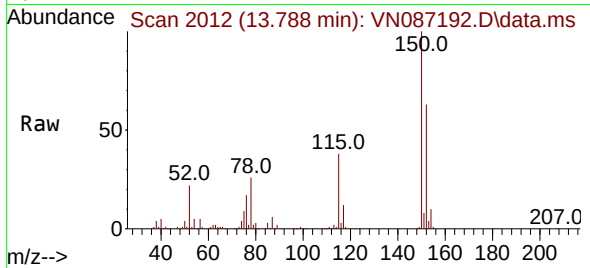




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

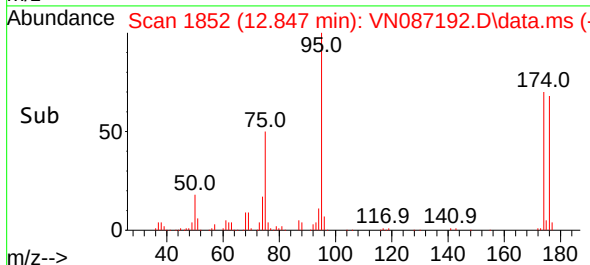
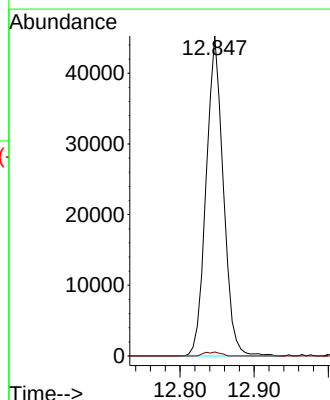
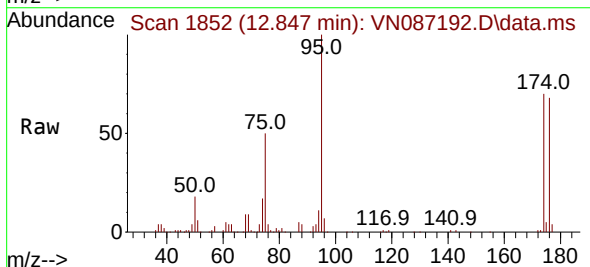
Instrument :
MSVOA_N
ClientSampleId :
TP-13

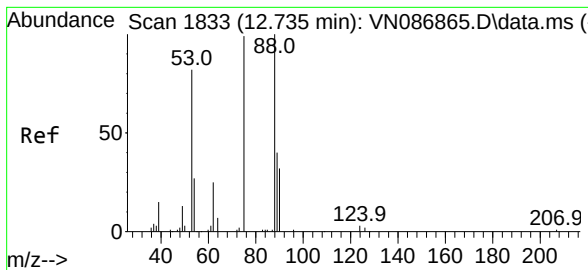
Tgt Ion:152 Resp: 148433
Ion Ratio Lower Upper
152 100
115 62.0 30.1 90.5
150 159.0 0.0 345.0



#76
1,2,3-Trichloropropane
Concen: 20.667 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087192.D
Acq: 26 Jun 2025 14:08

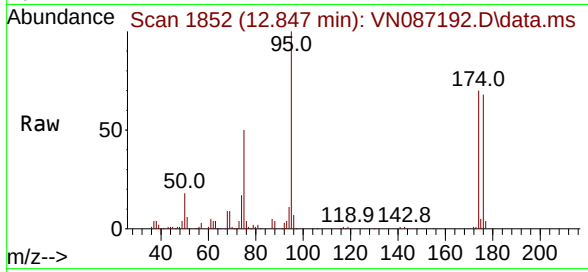
Tgt Ion: 75 Resp: 72919
Ion Ratio Lower Upper
75 100
77 1.2 79.3 237.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 47.574 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087192.D
 Acq: 26 Jun 2025 14:08

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13



Tgt Ion: 75 Resp: 72919
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.1 36.7 55.1#

