

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
 Data File : VN087083.D
 Acq On : 18 Jun 2025 14:18
 Operator : JC\MD
 Sample : Q2341-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Quant Time: Jun 19 01:28:50 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)

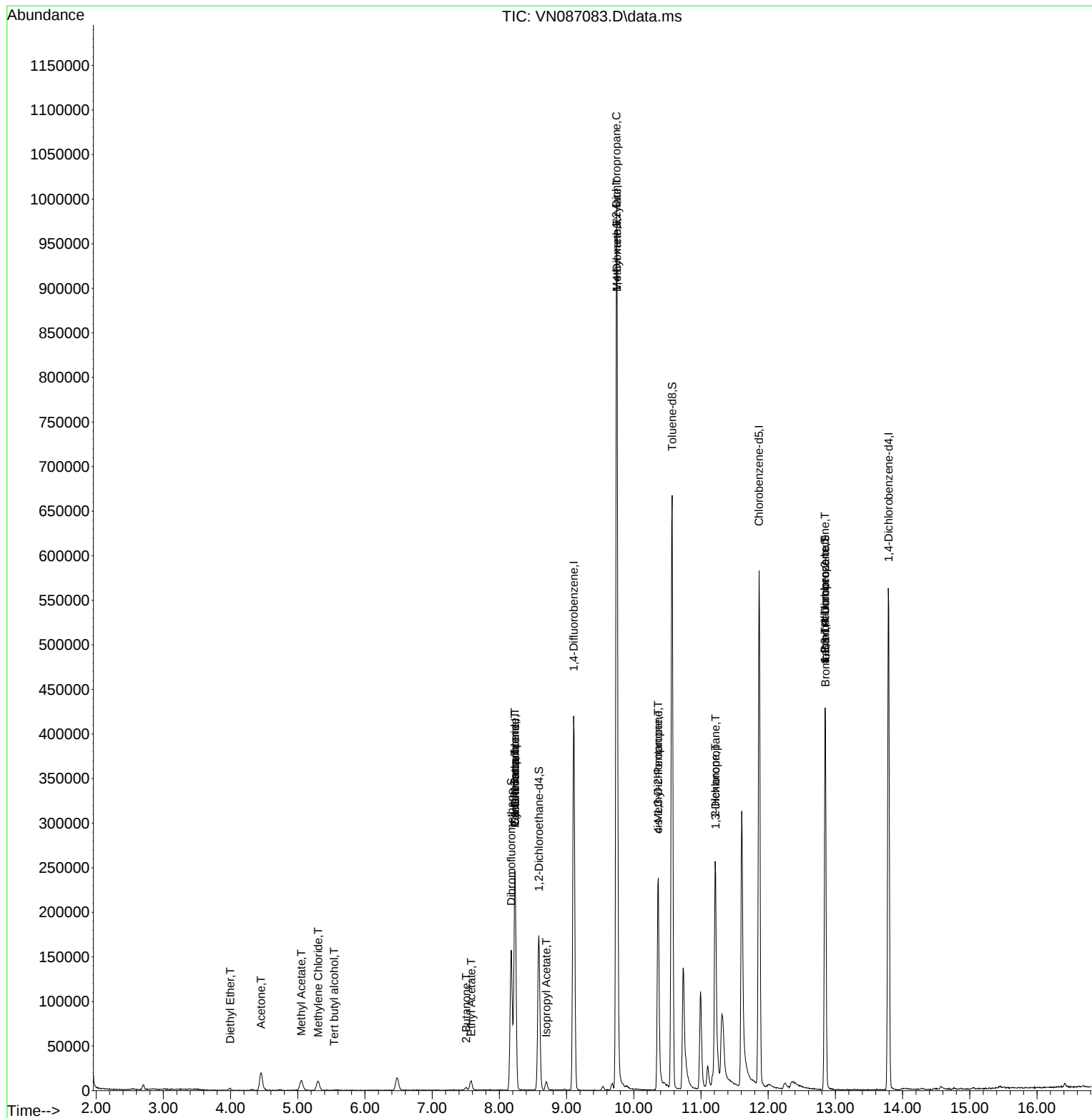
Internal Standards						
1) Pentafluorobenzene	8.235	168	195994	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394336	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	361007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167899	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	143905	54.839	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 109.680%		
35) Dibromofluoromethane	8.177	113	122039	52.222	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.440%		
50) Toluene-d8	10.571	98	489669	52.930	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.860%		
62) 4-Bromofluorobenzene	12.847	95	169879	49.425	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 98.840%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.995	74	1213	0.819	ug/l #	47
11) Tert butyl alcohol	5.541	59	396	0.556	ug/l #	73
16) Acetone	4.453	43	40138	28.843	ug/l	93
18) Methyl Acetate	5.053	43	25059	6.179	ug/l	99
20) Methylene Chloride	5.306	84	9703	3.724	ug/l #	92
25) 2-Butanone	7.506	43	5086	2.248	ug/l	90
31) Cyclohexane	8.230	56	3538	0.831	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	14789	4.247	ug/l #	49
37) Ethyl Acetate	7.583	43	17065	3.850	ug/l	99
38) Carbon Tetrachloride	8.230	117	18923	5.535	ug/l #	17
43) Isopropyl Acetate	8.700	43	10950	1.539	ug/l	93
45) 1,2-Dichloropropane	9.741	63	1535	0.554	ug/l #	43
48) Methyl methacrylate	9.747	41	83967	25.641	ug/l #	36
49) 1,4-Dioxane	9.747	88	121	2.031	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	94333	22.024	ug/l #	45
54) cis-1,3-Dichloropropene	10.365	75	58684	12.955	ug/l #	57
57) 1,3-Dichloropropane	11.218	76	3953	0.851	ug/l #	43
59) 2-Hexanone	11.212	43	50705	18.378	ug/l #	47
71) Bromoform	12.853	173	873	0.460	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	79528	19.927	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	79528	45.870	ug/l #	16

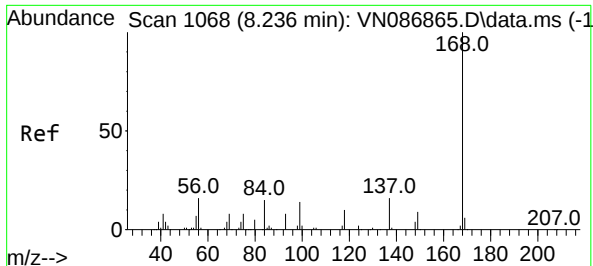
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

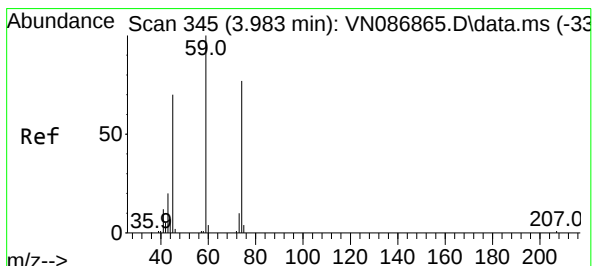
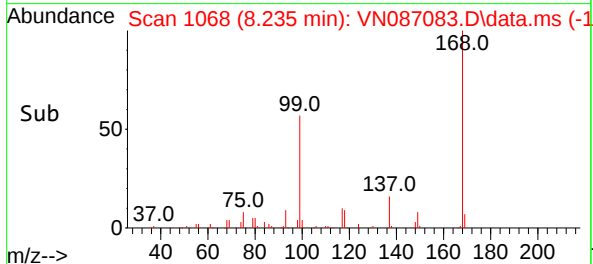
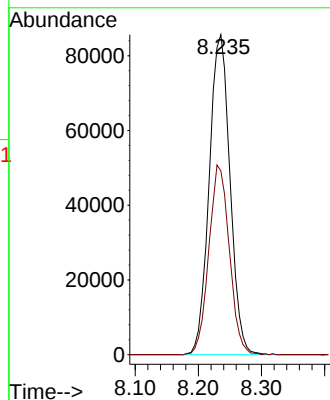
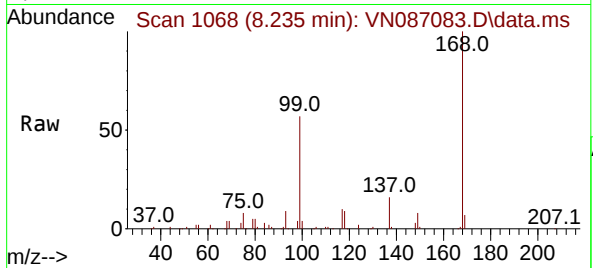




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

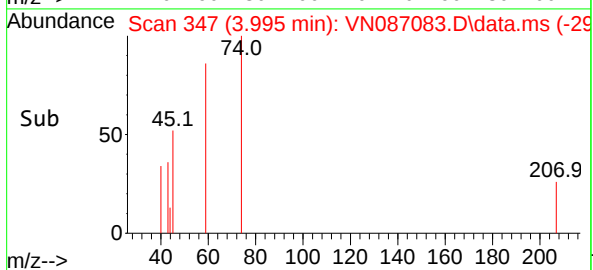
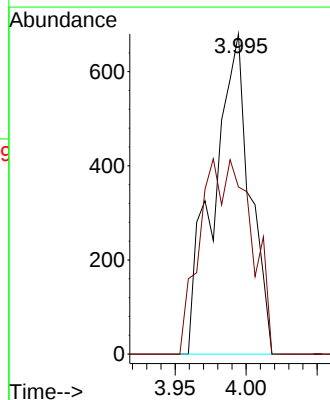
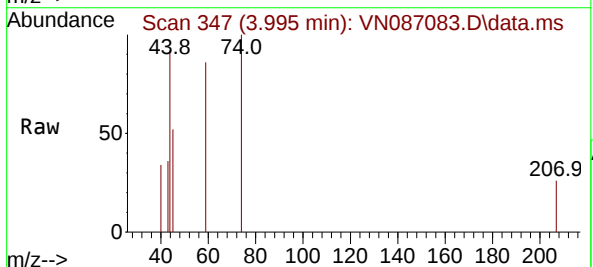
Instrument :
MSVOA_N
ClientSampleId :
TP-9

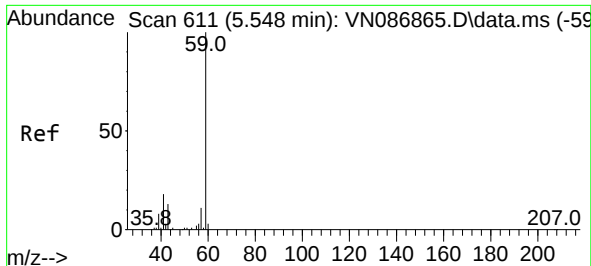
Tgt Ion:168 Resp: 195994
Ion Ratio Lower Upper
168 100
99 57.5 49.1 73.7



#8
Diethyl Ether
Concen: 0.819 ug/l
RT: 3.995 min Scan# 347
Delta R.T. 0.012 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion: 74 Resp: 1213
Ion Ratio Lower Upper
74 100
45 41.1 45.5 136.5#

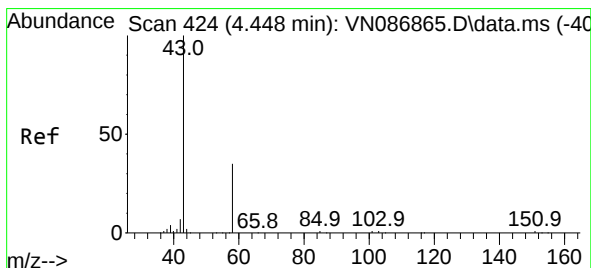
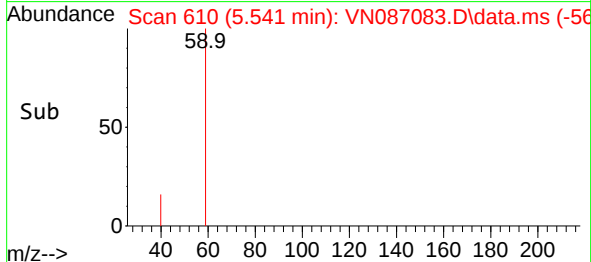
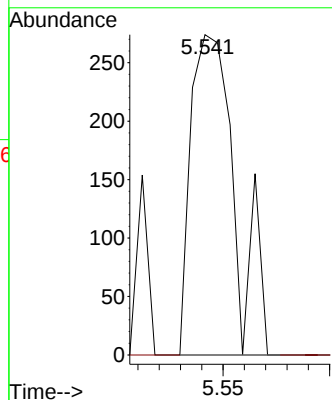
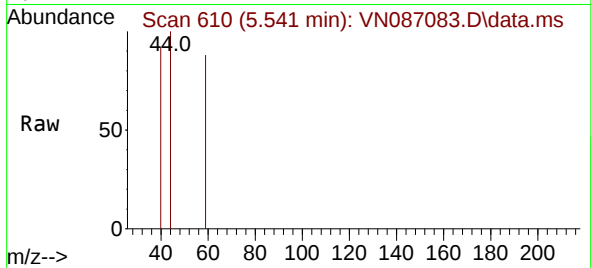




#11
Tert butyl alcohol
Concen: 0.556 ug/l
RT: 5.541 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

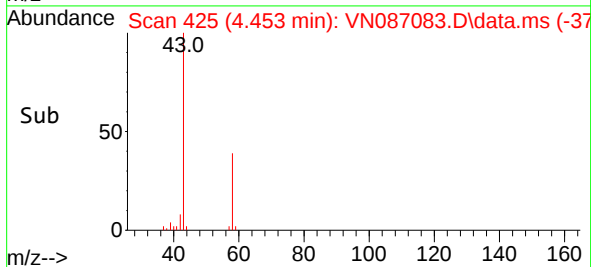
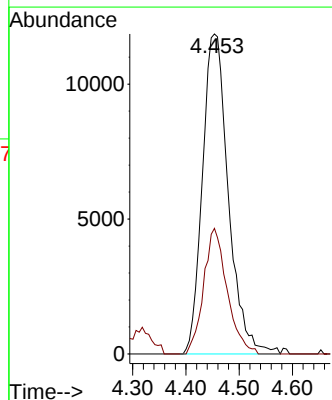
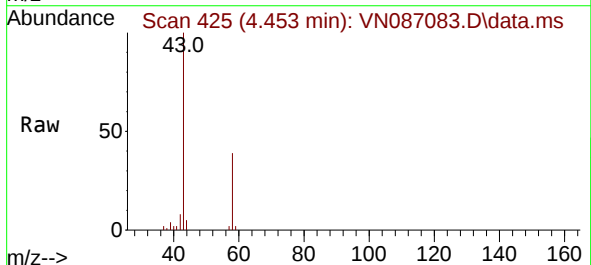
Instrument :
MSVOA_N
ClientSampleId :
TP-9

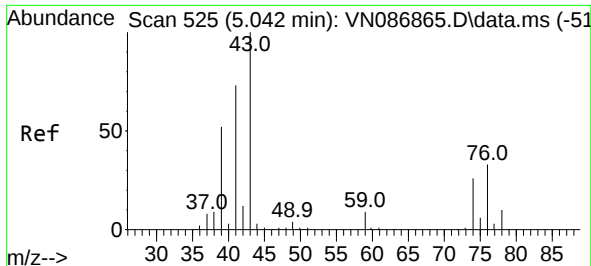
Tgt Ion: 59 Resp: 396
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 28.843 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion: 43 Resp: 40138
Ion Ratio Lower Upper
43 100
58 39.2 28.0 42.0

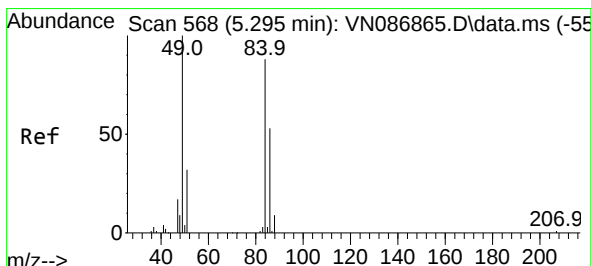
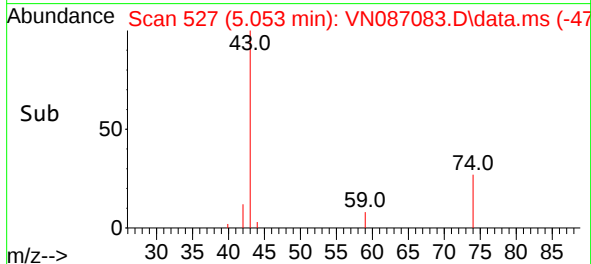
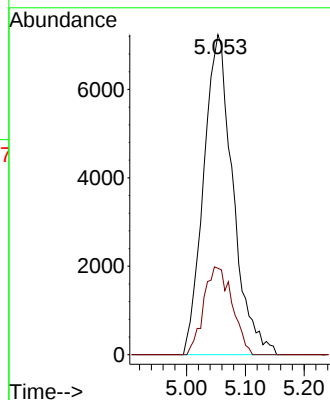
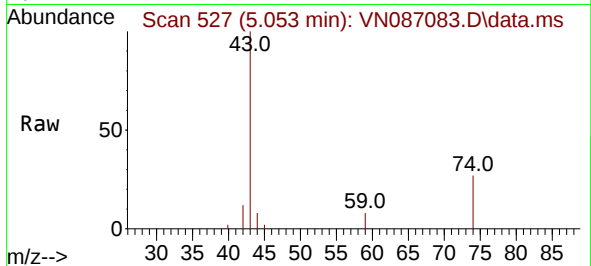




#18
Methyl Acetate
Concen: 6.179 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

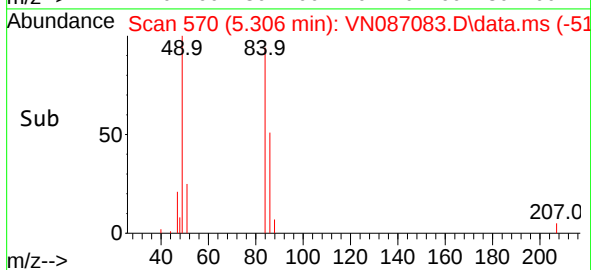
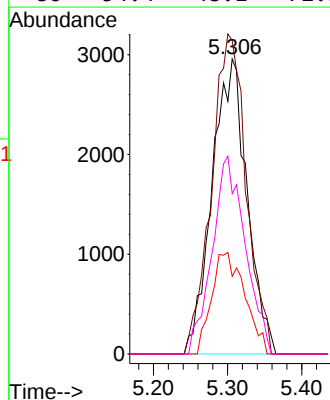
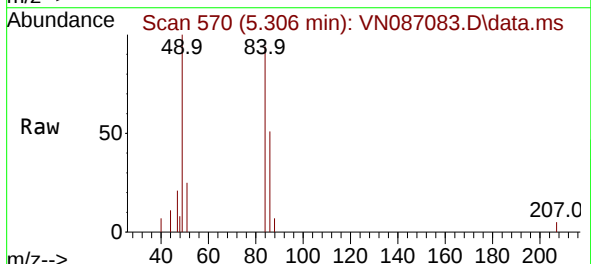
Instrument :
MSVOA_N
ClientSampleId :
TP-9

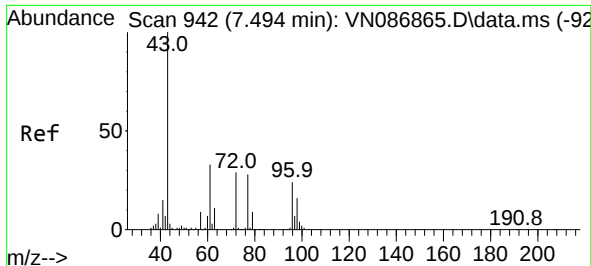
Tgt Ion: 43 Resp: 25059
Ion Ratio Lower Upper
43 100
74 26.6 20.7 31.1



#20
Methylene Chloride
Concen: 3.724 ug/l
RT: 5.306 min Scan# 570
Delta R.T. 0.012 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion: 84 Resp: 9703
Ion Ratio Lower Upper
84 100
49 106.2 90.5 135.7
51 26.3 28.5 42.7#
86 54.4 48.1 72.1

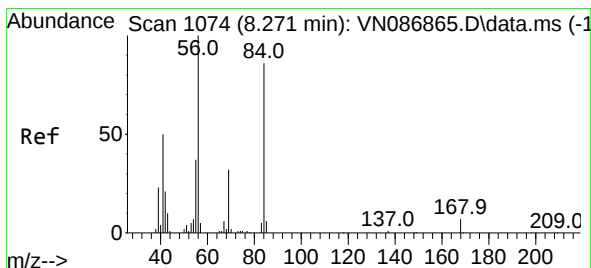
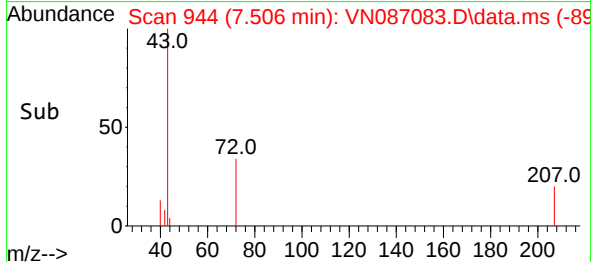
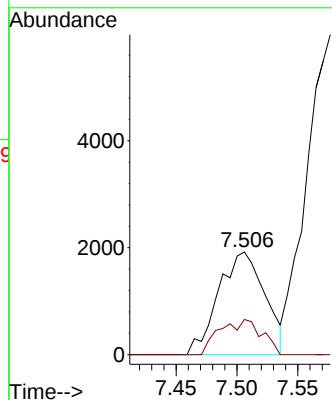
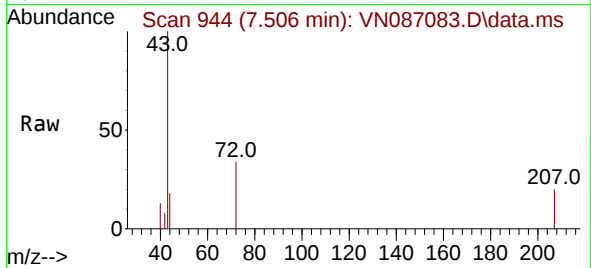




#25
2-Butanone
Concen: 2.248 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

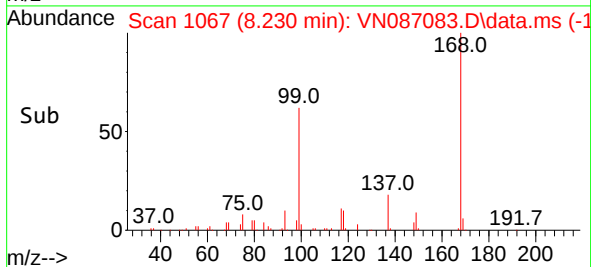
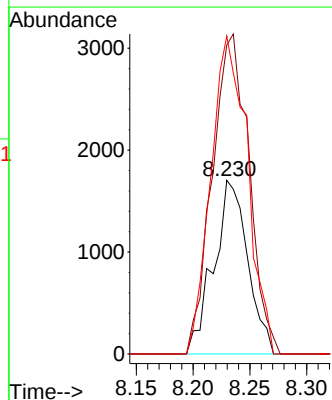
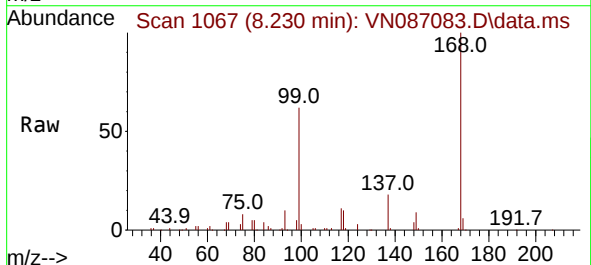
Instrument :
MSVOA_N
ClientSampleId :
TP-9

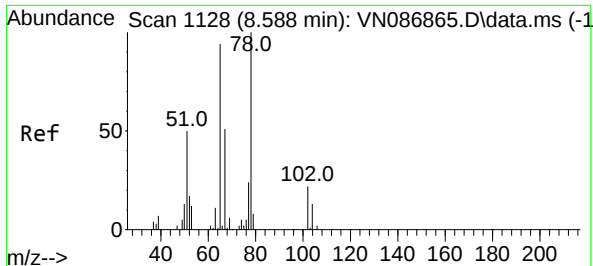
Tgt Ion: 43 Resp: 5086
Ion Ratio Lower Upper
43 100
72 34.3 23.0 34.6



#31
Cyclohexane
Concen: 0.831 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion: 56 Resp: 3538
Ion Ratio Lower Upper
56 100
69 178.0 25.4 38.0#
84 183.1 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 54.839 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

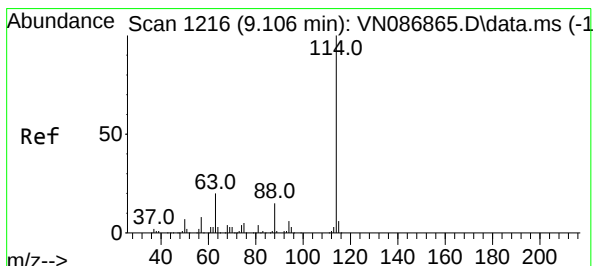
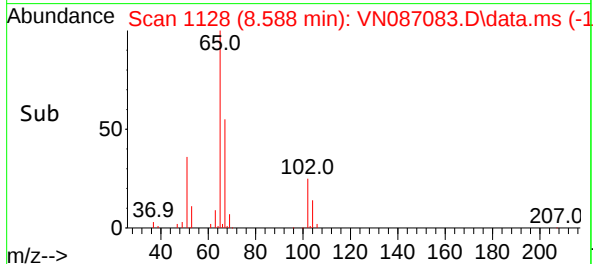
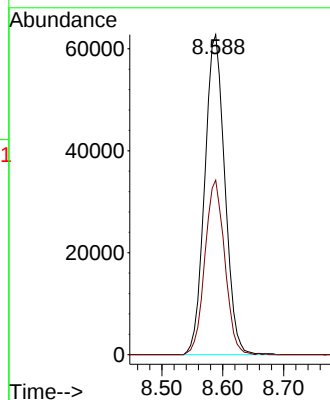
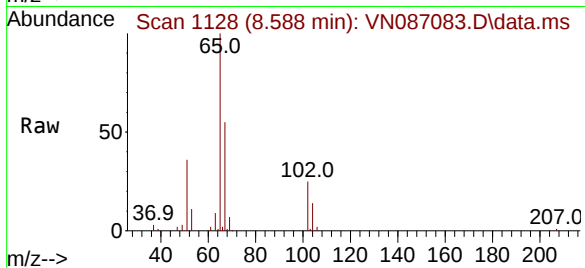
TP-9

Tgt Ion: 65 Resp: 143905

Ion Ratio Lower Upper

65 100

67 53.8 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: VN087083.D

Acq: 18 Jun 2025 14:18

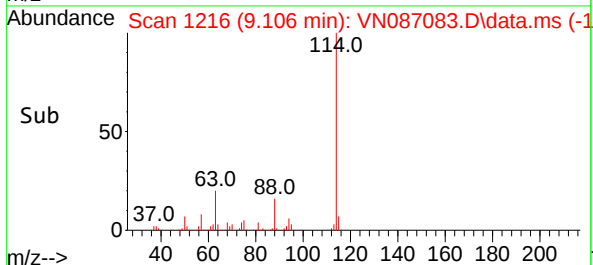
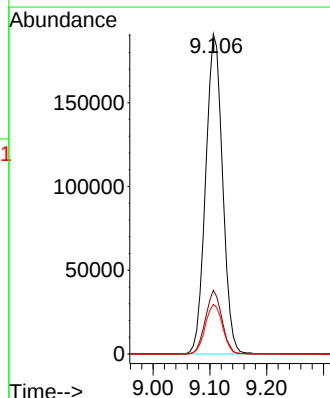
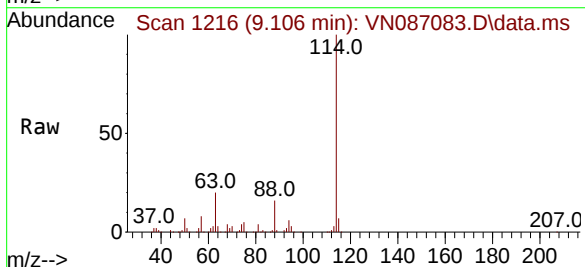
Tgt Ion: 114 Resp: 394336

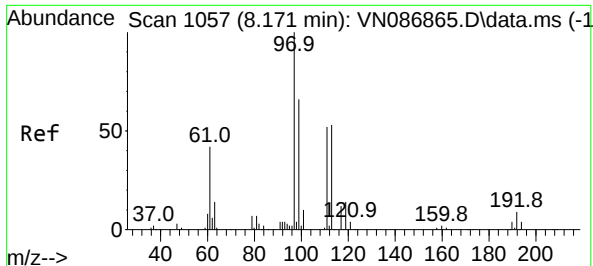
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.5 0.0 30.2





#35

Dibromofluoromethane

Concen: 52.222 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

TP-9

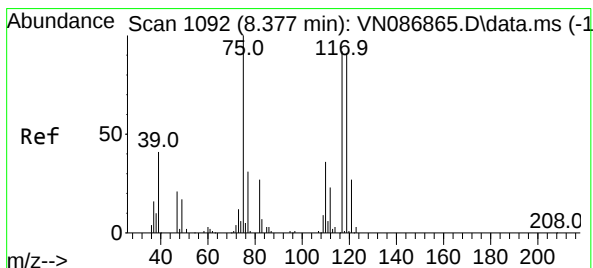
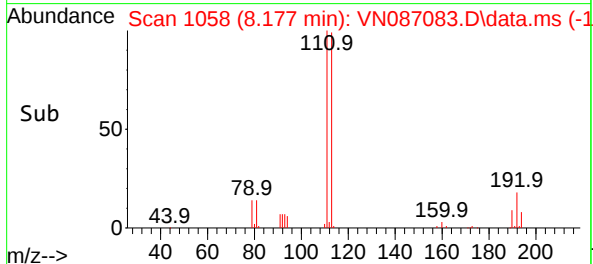
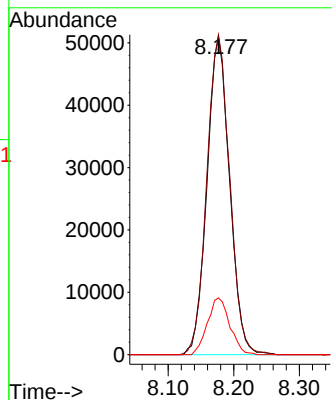
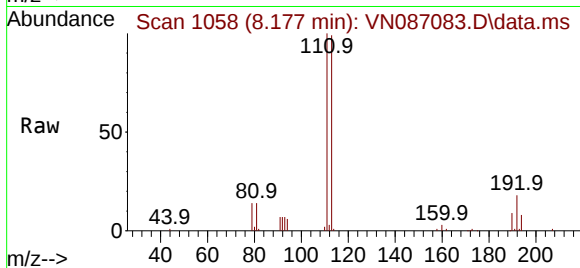
Tgt Ion:113 Resp: 122039

Ion Ratio Lower Upper

113 100

111 101.9 84.2 126.2

192 17.6 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.247 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

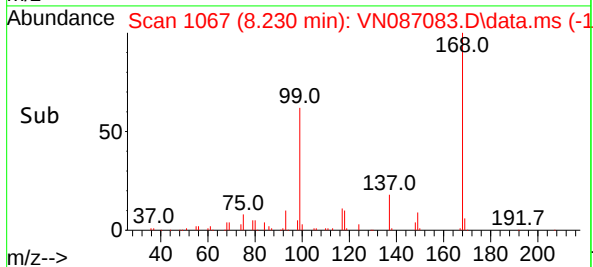
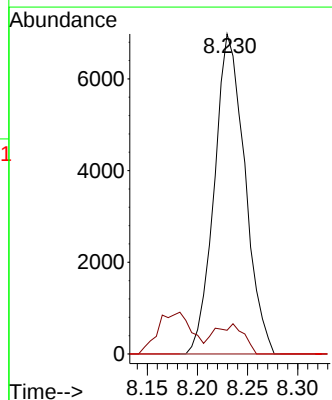
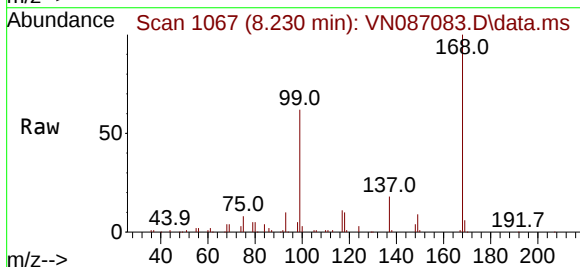
Tgt Ion: 75 Resp: 14789

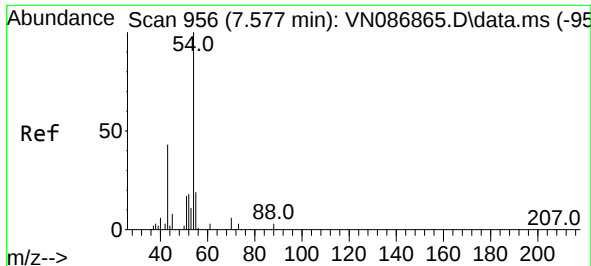
Ion Ratio Lower Upper

75 100

110 9.1 17.6 52.9#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 3.850 ug/l

RT: 7.583 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

TP-9

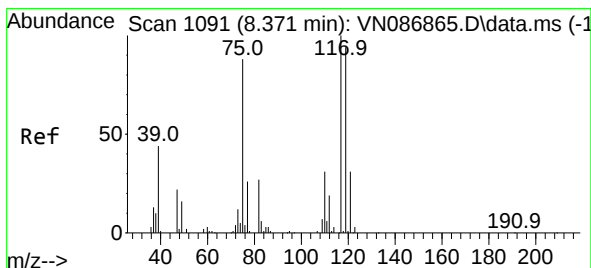
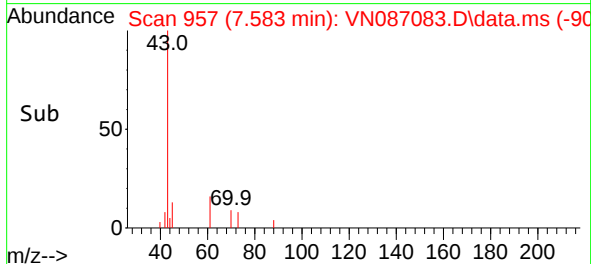
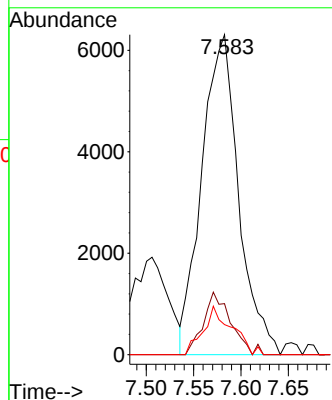
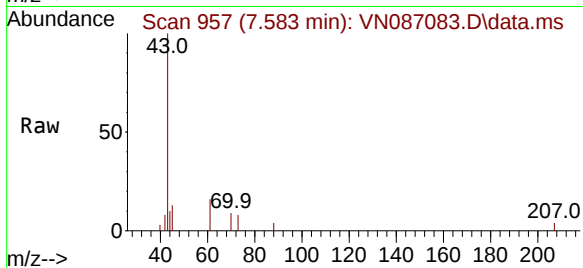
Tgt Ion: 43 Resp: 17065

Ion Ratio Lower Upper

43 100

61 14.6 12.1 18.1

70 11.8 9.8 14.6



#38

Carbon Tetrachloride

Concen: 5.535 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

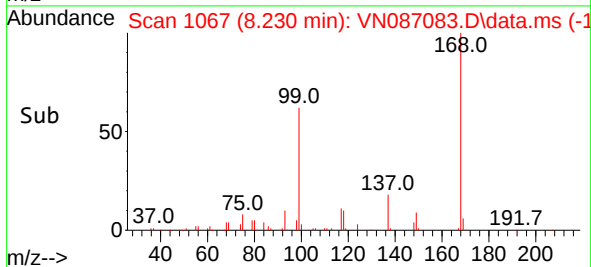
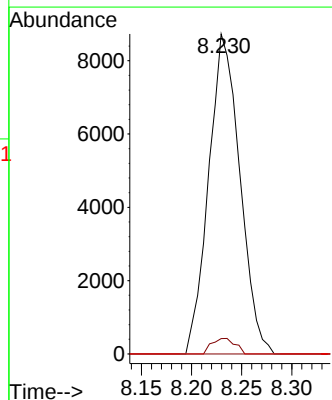
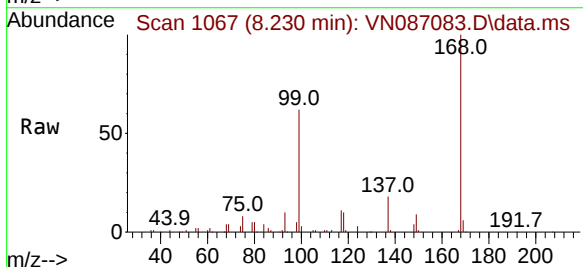
Tgt Ion: 117 Resp: 18923

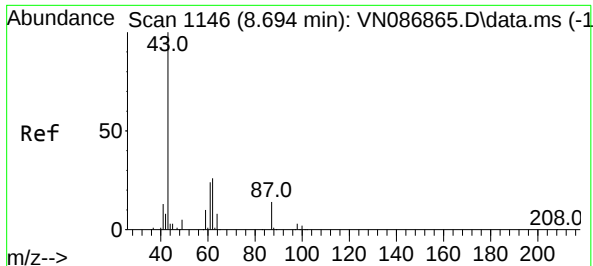
Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.6#

121 0.0 24.9 37.3#

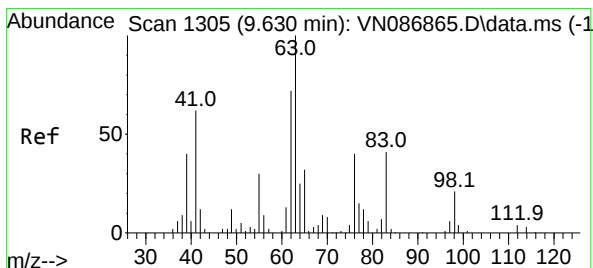
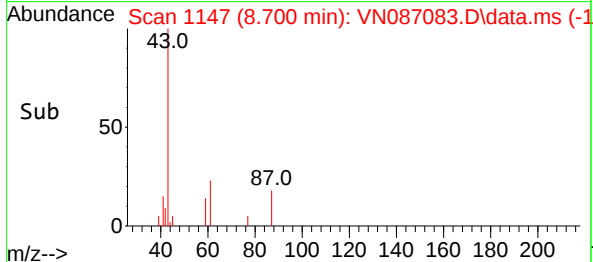
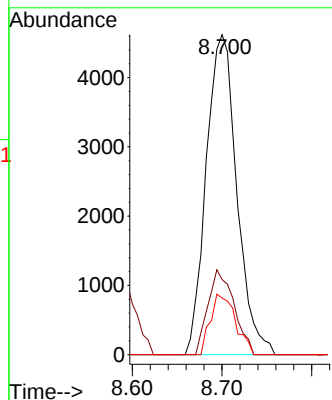
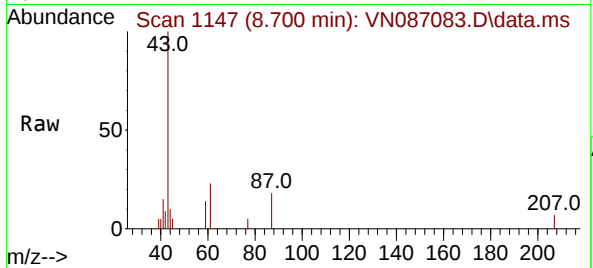




#43
Isopropyl Acetate
Concen: 1.539 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

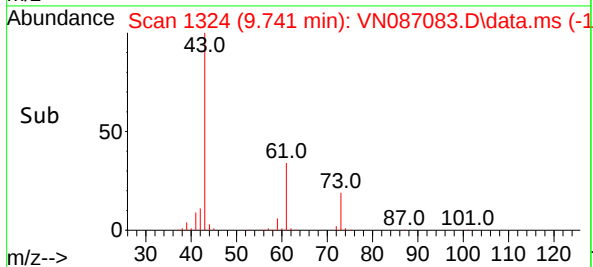
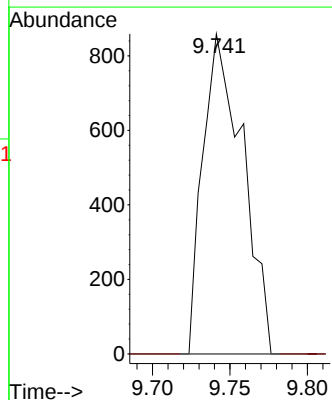
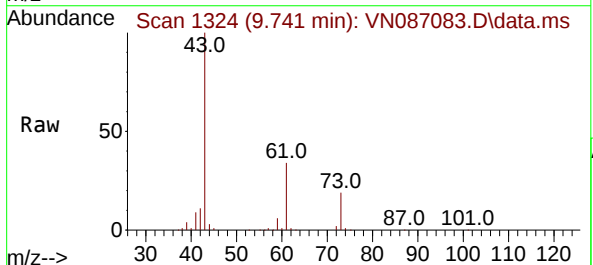
Instrument :
MSVOA_N
ClientSampleId :
TP-9

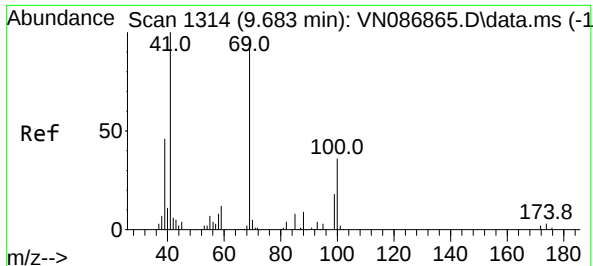
Tgt Ion:	43	Resp:	10950
Ion	Ratio	Lower	Upper
43	100		
61	22.6	22.1	33.1
87	15.5	11.8	17.6



#45
1,2-Dichloropropane
Concen: 0.554 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.112 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion:	63	Resp:	1535
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.5	38.3#





#48

Methyl methacrylate

Concen: 25.641 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

TP-9

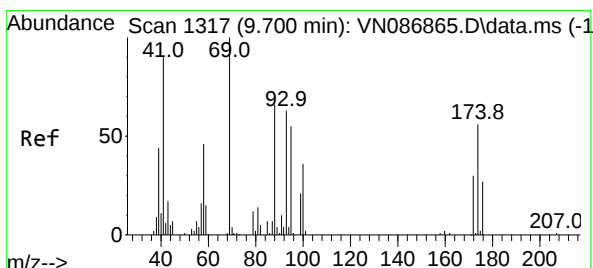
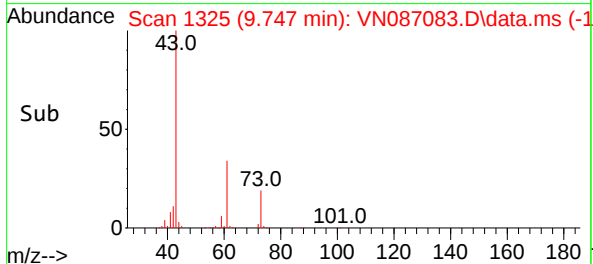
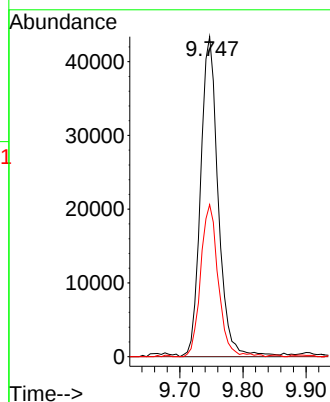
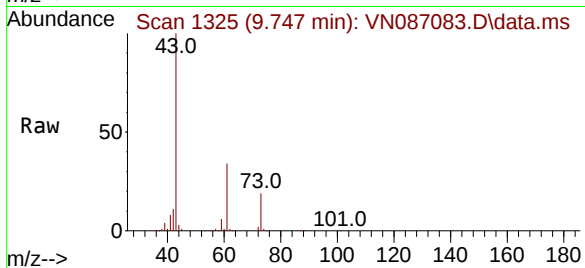
Tgt Ion: 41 Resp: 83967

Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 47.6 40.2 60.4



#49

1,4-Dioxane

Concen: 2.031 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.047 min

Lab File: VN087083.D

Acq: 18 Jun 2025 14:18

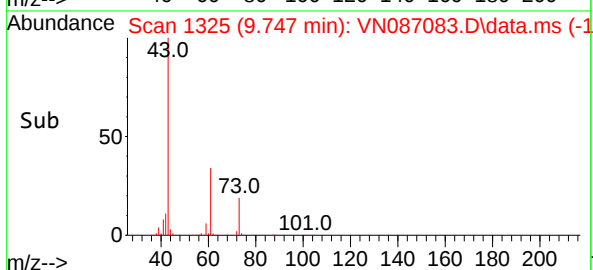
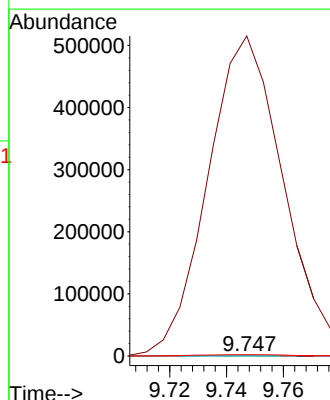
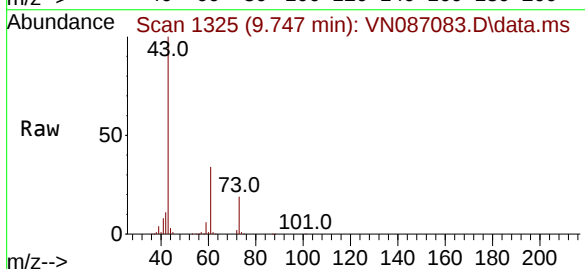
Tgt Ion: 88 Resp: 121

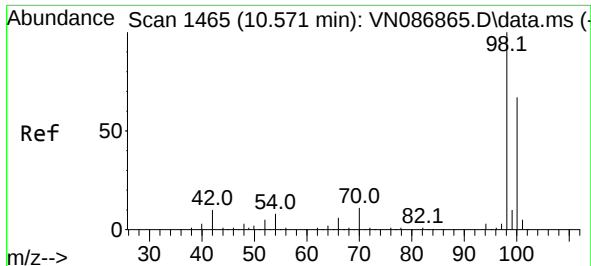
Ion Ratio Lower Upper

88 100

43 814590.1 0.0 0.0#

58 3740.5 57.7 86.5#

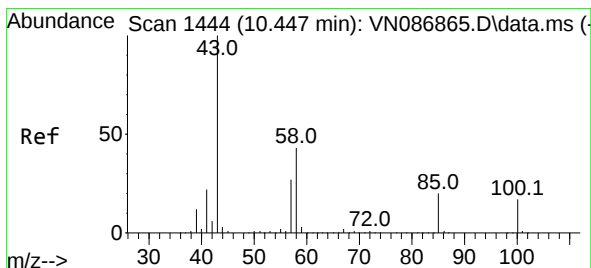
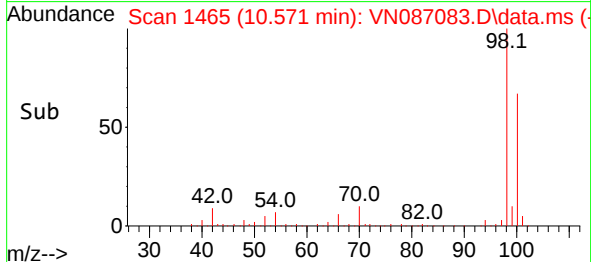
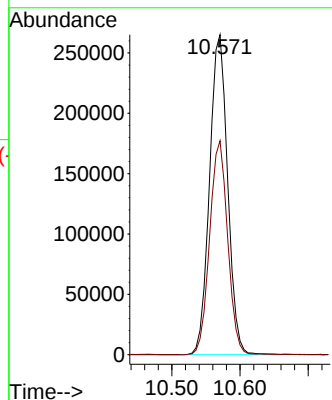
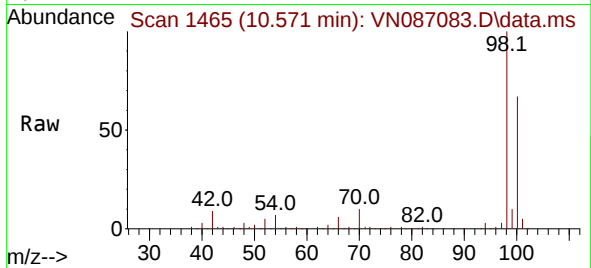




#50
Toluene-d8
Concen: 52.930 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

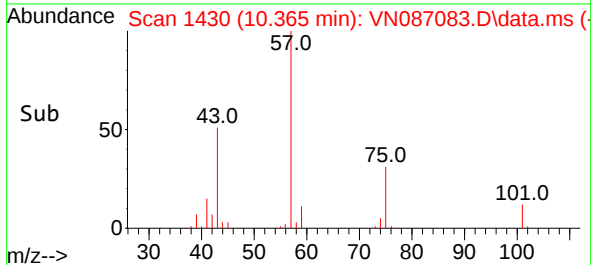
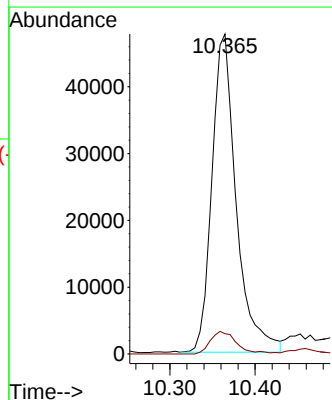
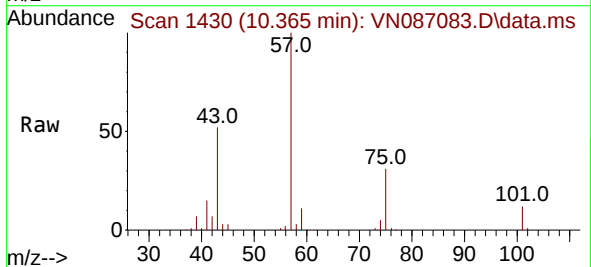
Instrument :
MSVOA_N
ClientSampleId :
TP-9

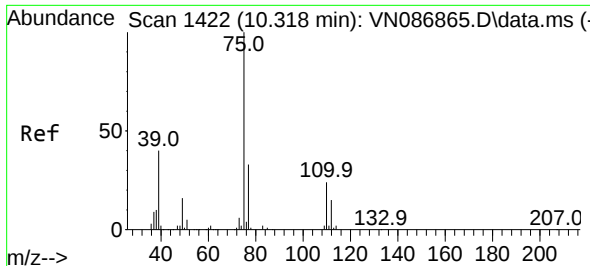
Tgt Ion: 98 Resp: 489669
Ion Ratio Lower Upper
98 100
100 66.6 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 22.024 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.083 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion: 43 Resp: 94333
Ion Ratio Lower Upper
43 100
58 7.6 34.2 51.4#

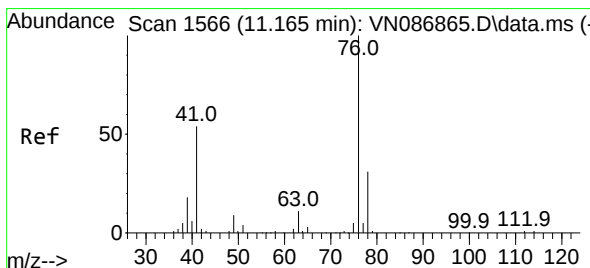
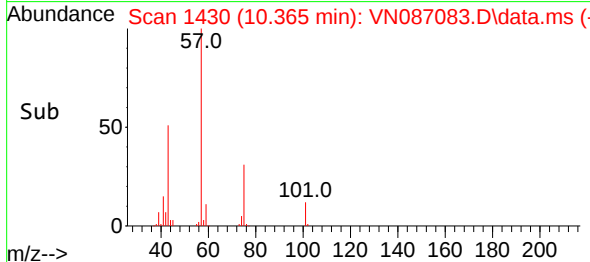
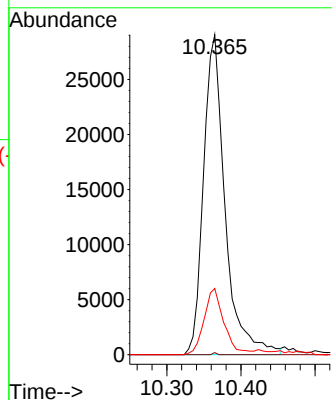
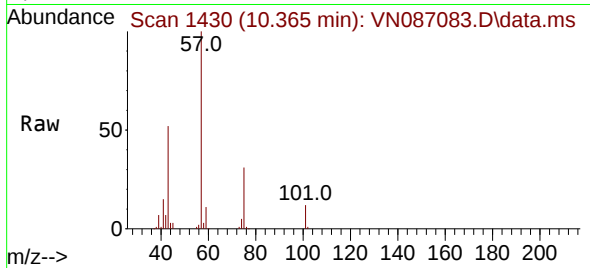




#54
 cis-1,3-Dichloropropene
 Concen: 12.955 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN087083.D
 Acq: 18 Jun 2025 14:18

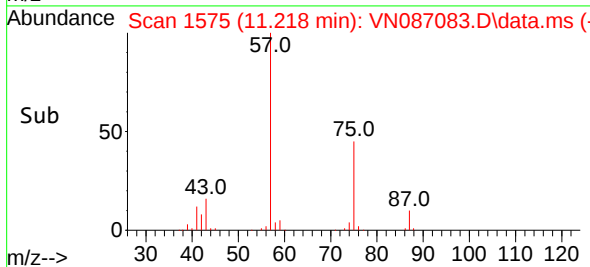
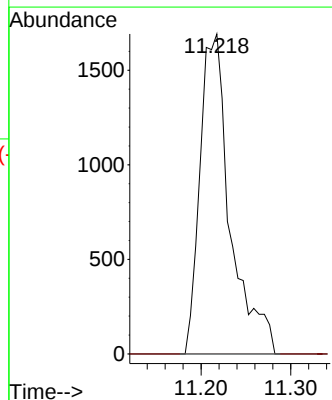
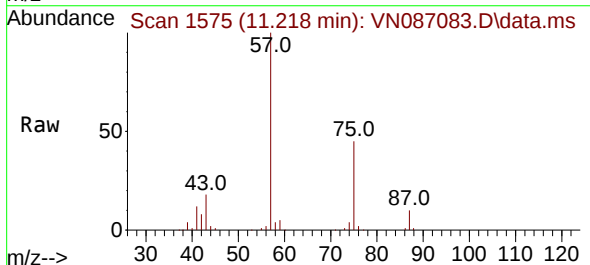
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

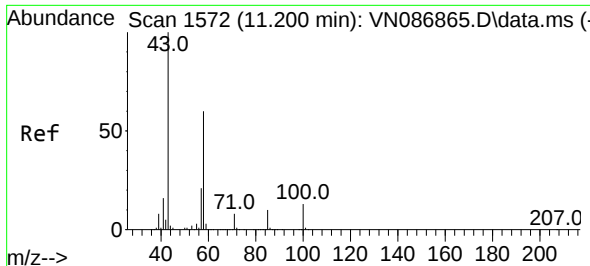
Tgt Ion: 75 Resp: 58684
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.2 39.4#
 39 20.7 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.851 ug/l
 RT: 11.218 min Scan# 1575
 Delta R.T. 0.053 min
 Lab File: VN087083.D
 Acq: 18 Jun 2025 14:18

Tgt Ion: 76 Resp: 3953
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

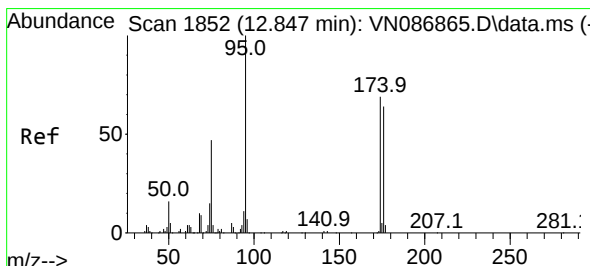
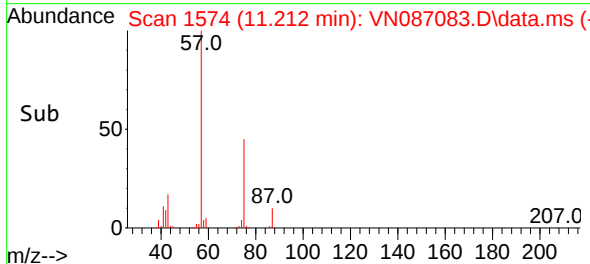
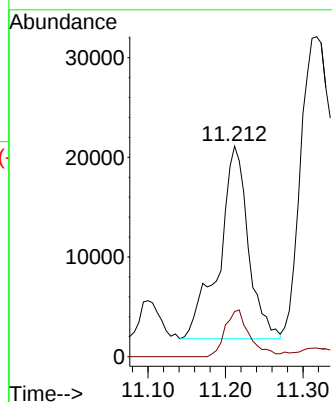
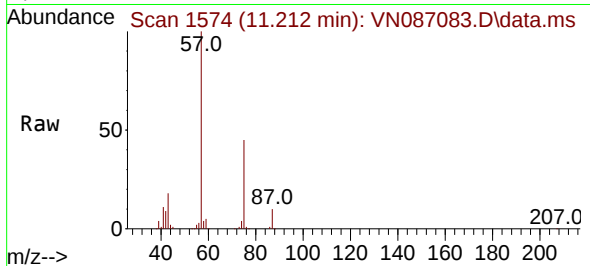




#59
2-Hexanone
Concen: 18.378 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

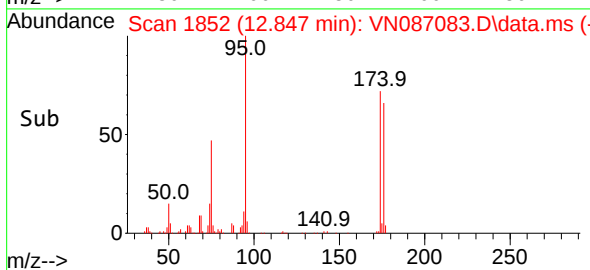
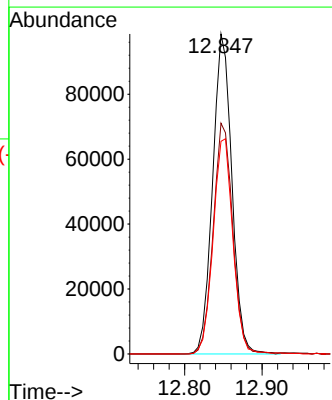
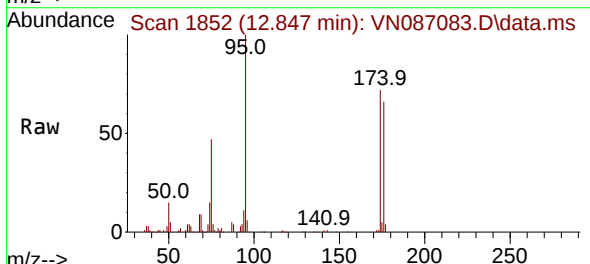
Instrument :
MSVOA_N
ClientSampleId :
TP-9

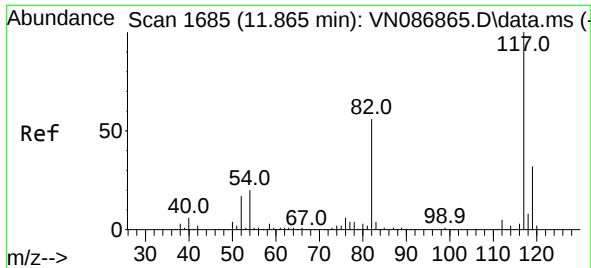
Tgt Ion: 43 Resp: 50705
Ion Ratio Lower Upper
43 100
58 20.5 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 49.425 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion: 95 Resp: 169879
Ion Ratio Lower Upper
95 100
174 73.1 0.0 141.8
176 69.4 0.0 132.6

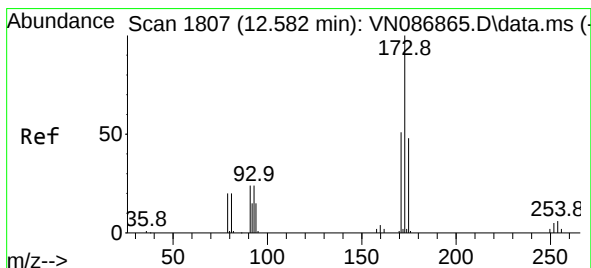
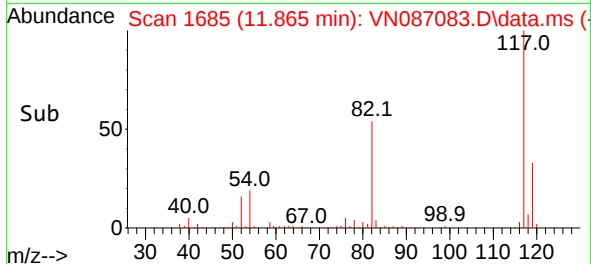
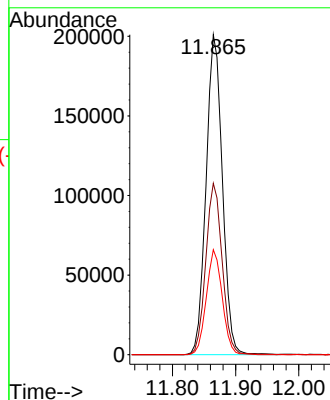
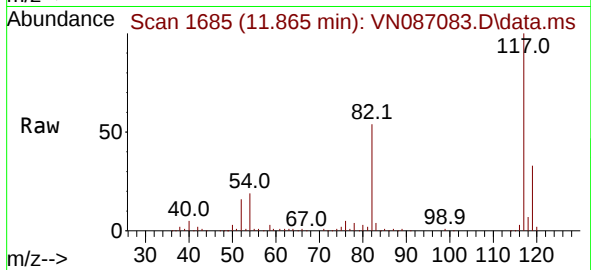




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

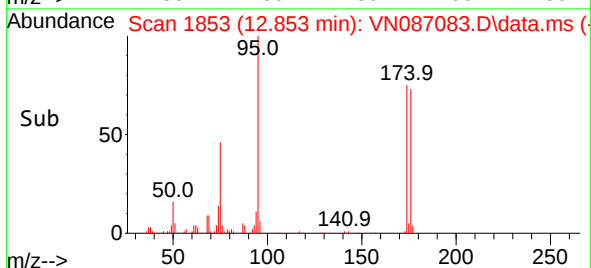
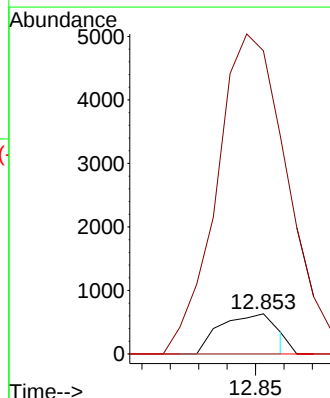
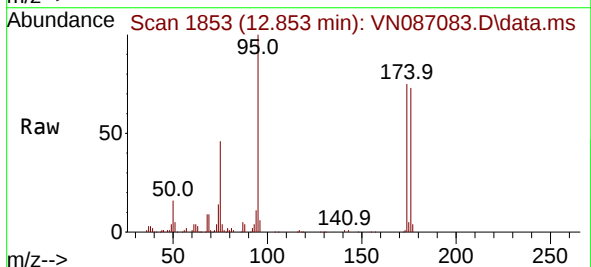
Instrument :
MSVOA_N
ClientSampleId :
TP-9

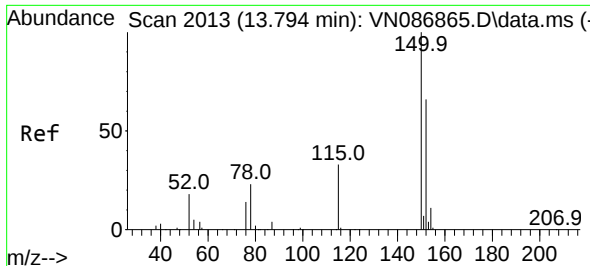
Tgt Ion:117 Resp: 361007
Ion Ratio Lower Upper
117 100
82 53.6 44.6 67.0
119 32.8 25.5 38.3



#71
Bromoform
Concen: 0.460 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Tgt Ion:173 Resp: 873
Ion Ratio Lower Upper
173 100
175 862.8 24.1 72.4#
254 0.0 0.0 0.0

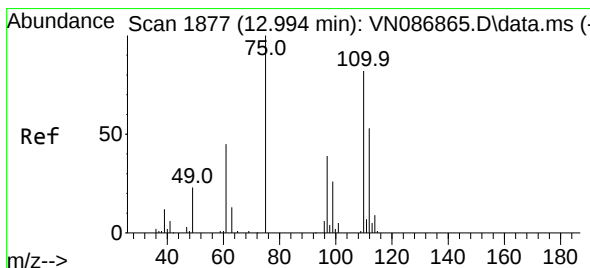
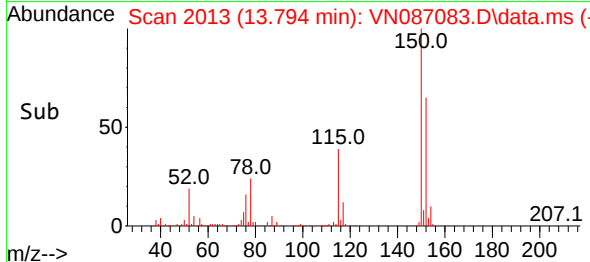
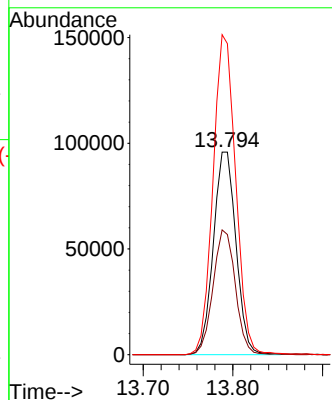
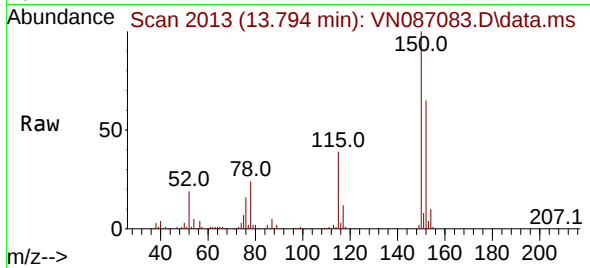




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN087083.D
 Acq: 18 Jun 2025 14:18

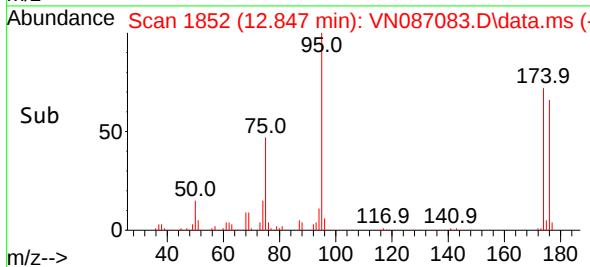
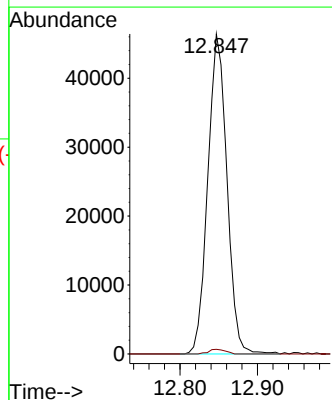
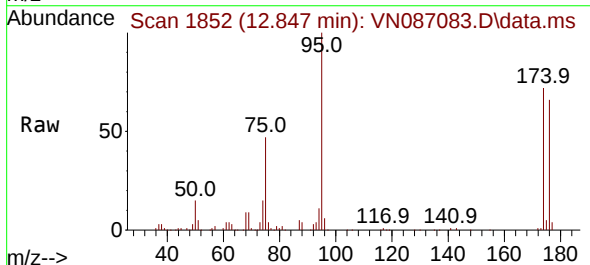
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

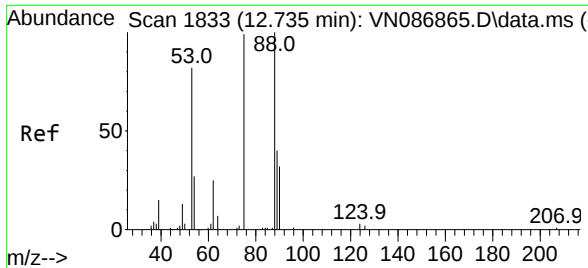
Tgt Ion:152 Resp: 167899
 Ion Ratio Lower Upper
 152 100
 115 60.8 30.1 90.5
 150 158.2 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.927 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087083.D
 Acq: 18 Jun 2025 14:18

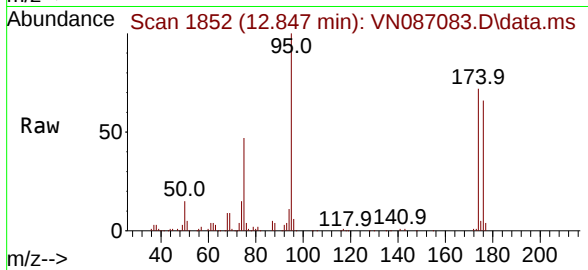
Tgt Ion: 75 Resp: 79528
 Ion Ratio Lower Upper
 75 100
 77 1.3 79.3 237.9#





#81
trans-1,4-Dichloro-2-butene
Concen: 45.870 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087083.D
Acq: 18 Jun 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
TP-9



Tgt Ion: 75 Resp: 79528
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#

