

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087826.D
 Acq On : 15 Sep 2025 11:11
 Operator : JC\MD
 Sample : Q3088-02 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 90525-LQ

Quant Time: Sep 16 01:32:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	211429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	477510	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	470640	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	225379	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	237617	54.852	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	109.700%
35) Dibromofluoromethane	8.153	113	178677	51.826	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.660%
50) Toluene-d8	10.547	98	629350	48.773	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.540%
62) 4-Bromofluorobenzene	12.829	95	218515	47.617	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.240%

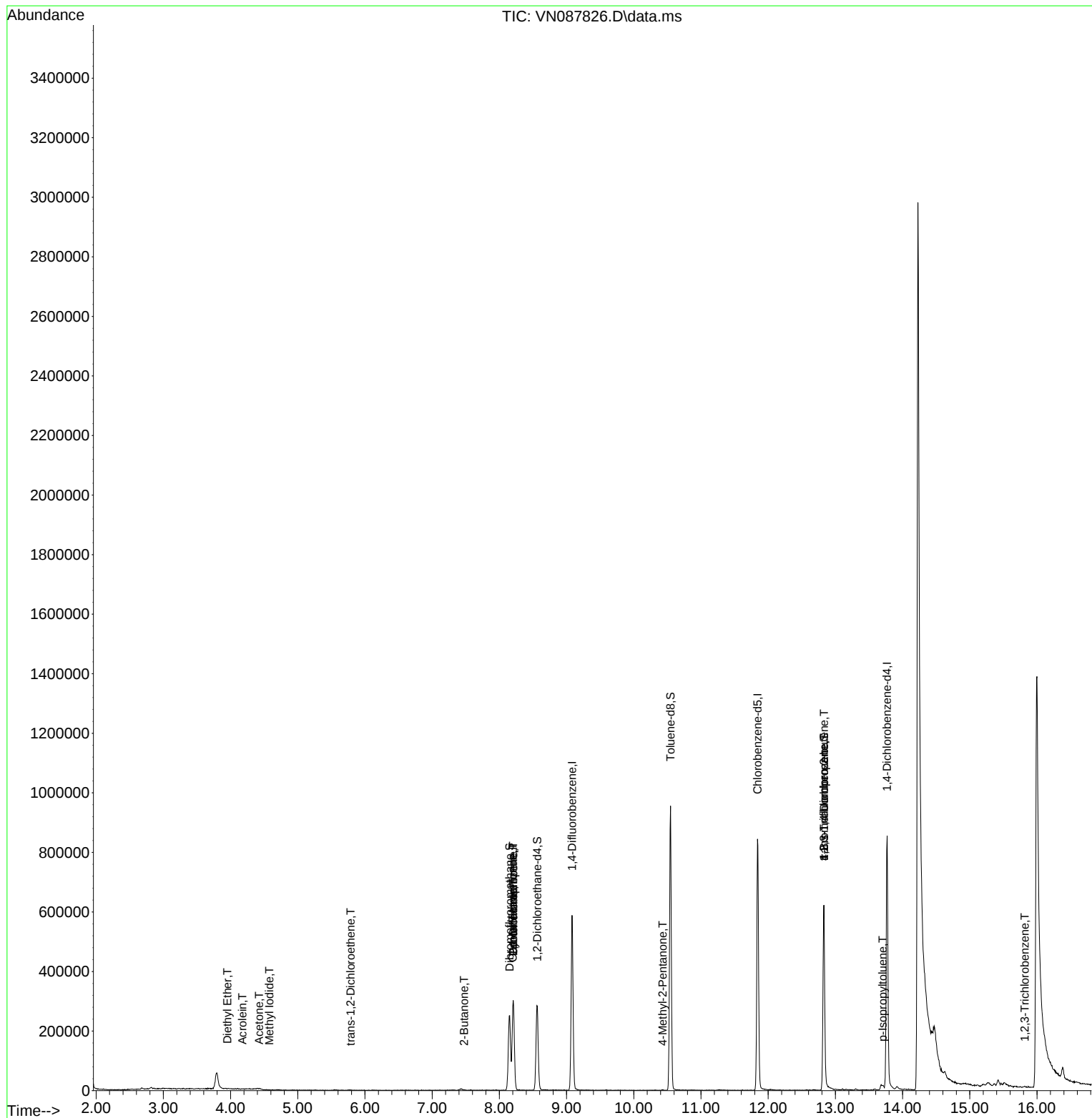
Target Compounds					Qvalue	
8) Diethyl Ether	3.953	74	595	0.261	ug/l #	1
10) Methyl Iodide	4.577	142	55	6.832	ug/l #	1
13) Acrolein	4.177	56	314	0.340	ug/l #	14
16) Acetone	4.424	43	5153	2.185	ug/l #	72
20) Methylene Chloride	5.265	84	224	Below Cal	#	41
21) trans-1,2-Dichloroethene	5.789	96	692	0.209	ug/l #	40
25) 2-Butanone	7.477	43	1379	0.444	ug/l #	50
31) Cyclohexane	8.206	56	5949	1.092	ug/l #	12
36) 1,1-Dichloropropene	8.206	75	18529	3.503	ug/l #	53
38) Carbon Tetrachloride	8.200	117	23502	4.501	ug/l #	16
51) 4-Methyl-2-Pentanone	10.429	43	1507	0.221	ug/l #	77
76) 1,2,3-Trichloropropane	12.829	75	124506	23.557	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	124506	62.365	ug/l #	1
86) p-Isopropyltoluene	13.706	119	3214	0.204	ug/l	91
96) 1,2,3-Trichlorobenzene	15.817	180	947	0.201	ug/l #	27

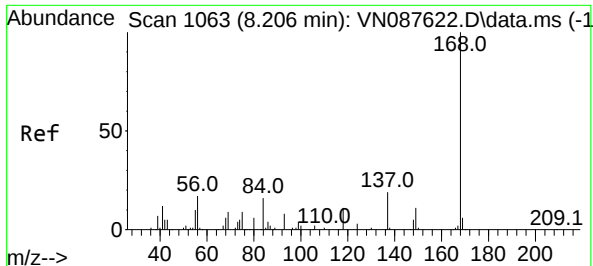
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
Data File : VN087826.D
Acq On : 15 Sep 2025 11:11
Operator : JC\MD
Sample : Q3088-02 50X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

Quant Time: Sep 16 01:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

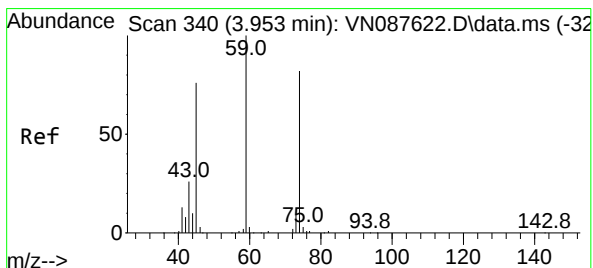
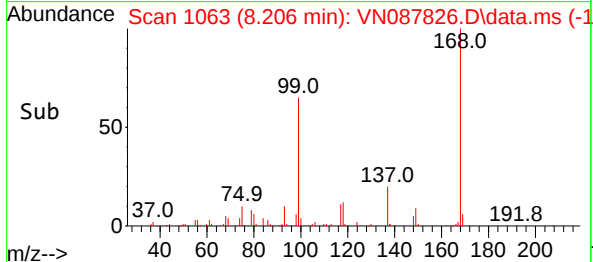
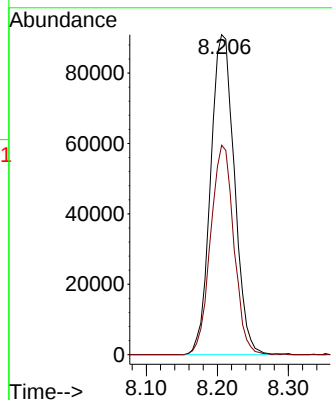
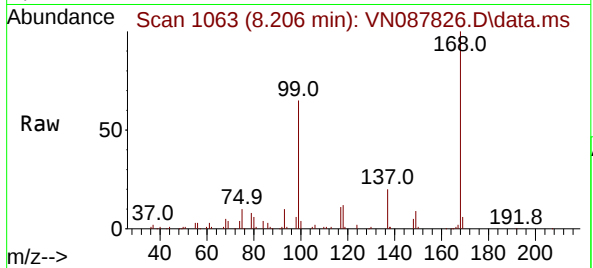




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

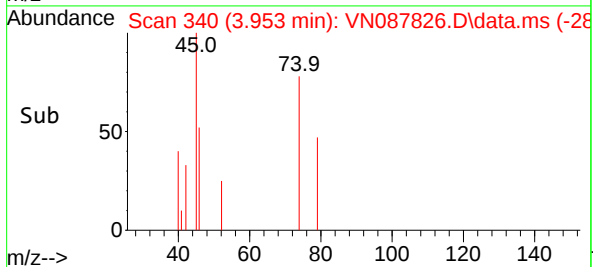
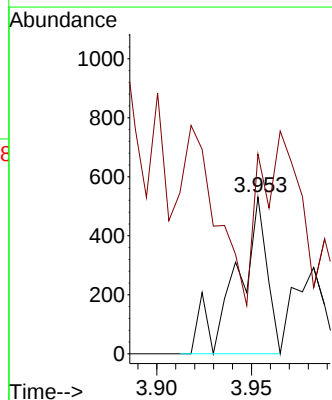
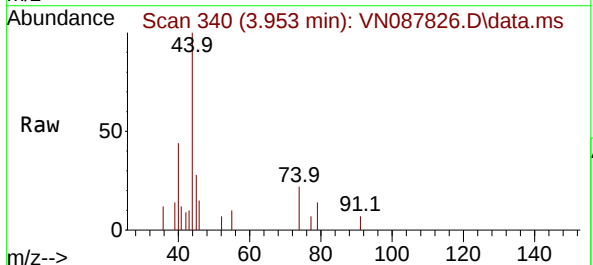
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

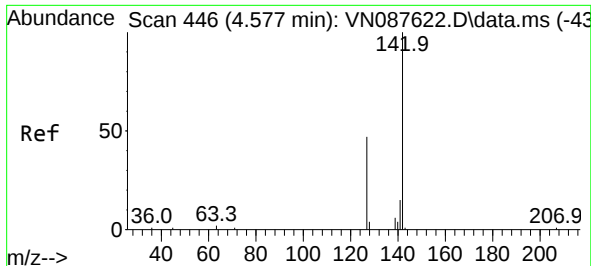
Tgt Ion:168 Resp: 211429
Ion Ratio Lower Upper
168 100
99 65.4 57.2 85.8



#8
Diethyl Ether
Concen: 0.261 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 74 Resp: 595
Ion Ratio Lower Upper
74 100
45 0.0 50.6 151.9#

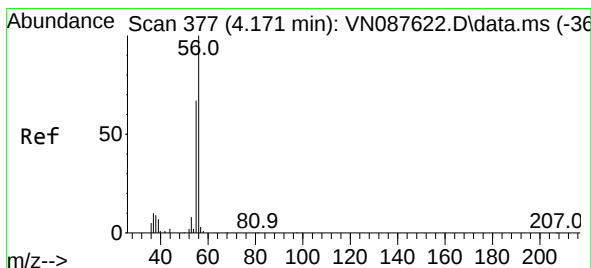
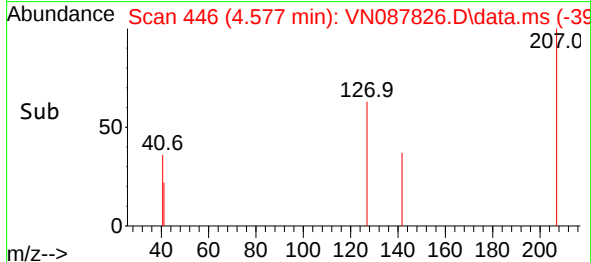
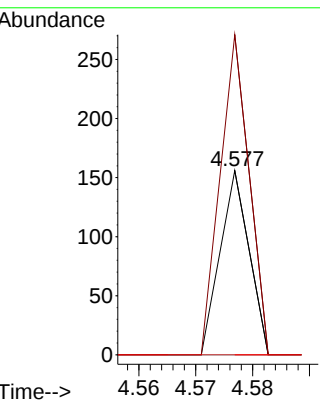
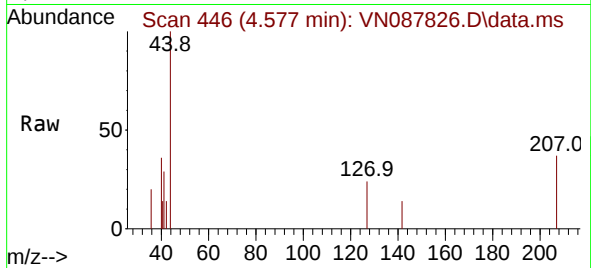




#10
Methyl Iodide
Concen: 6.832 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

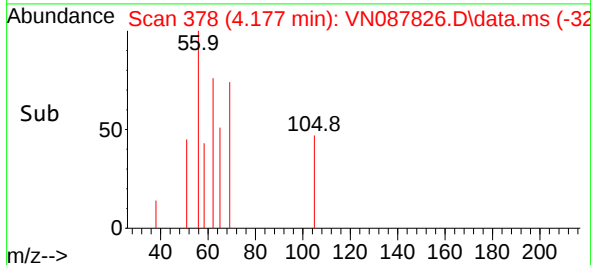
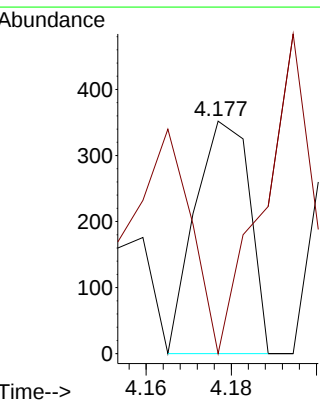
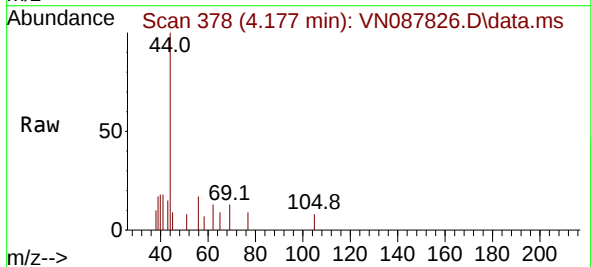
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

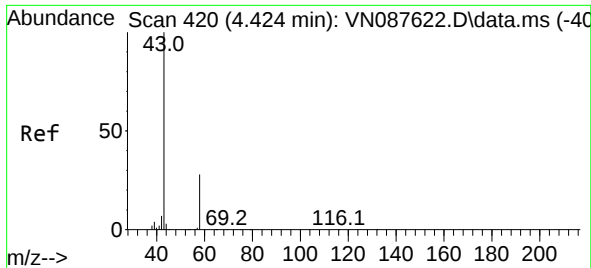
Tgt Ion:142 Resp: 55
Ion Ratio Lower Upper
142 100
127 173.7 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.340 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 56 Resp: 314
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#

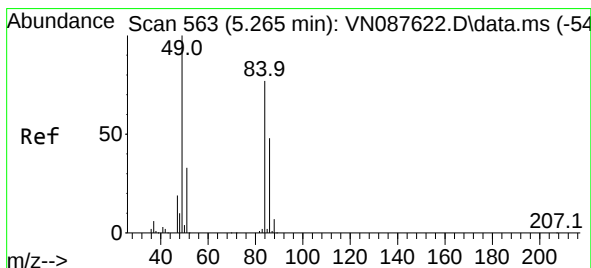
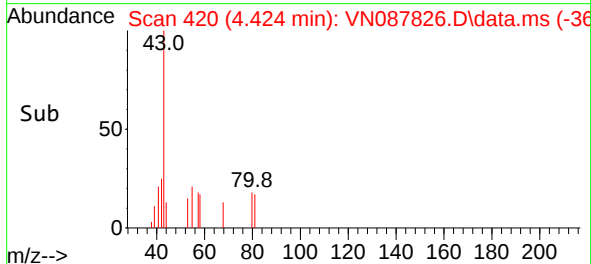
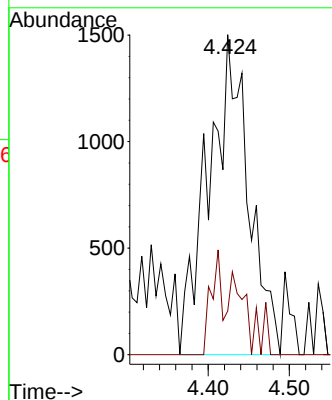
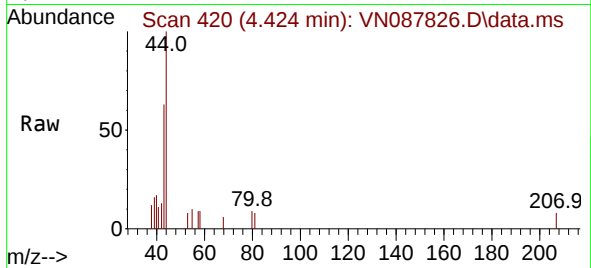




#16
Acetone
Concen: 2.185 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

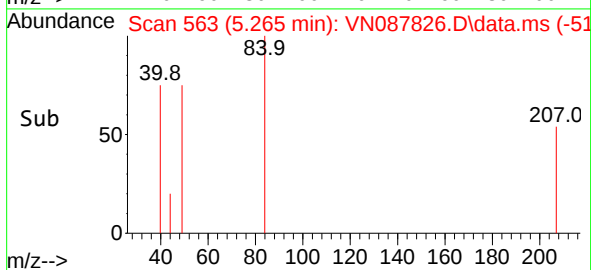
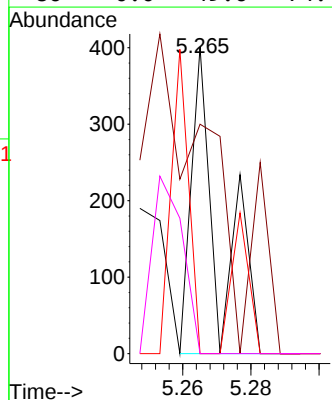
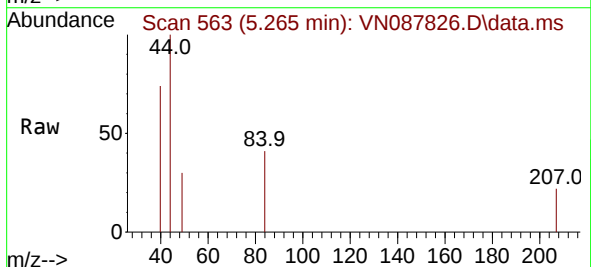
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

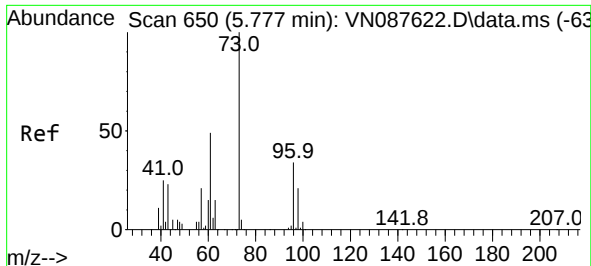
Tgt Ion: 43 Resp: 5153
Ion Ratio Lower Upper
43 100
58 13.6 22.6 33.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 84 Resp: 224
Ion Ratio Lower Upper
84 100
49 74.8 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

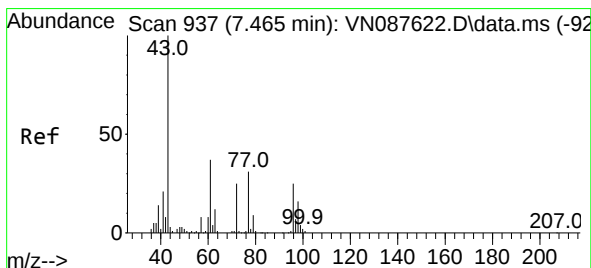
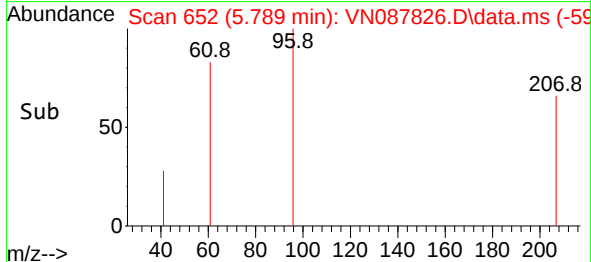
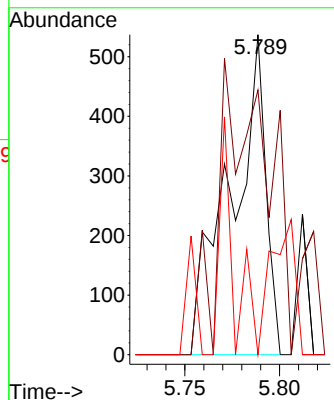
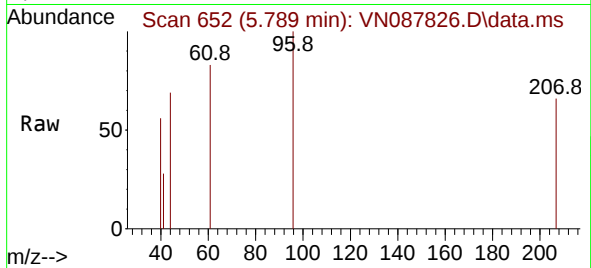




#21
trans-1,2-Dichloroethene
Concen: 0.209 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

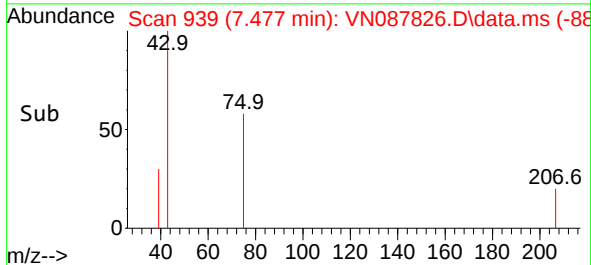
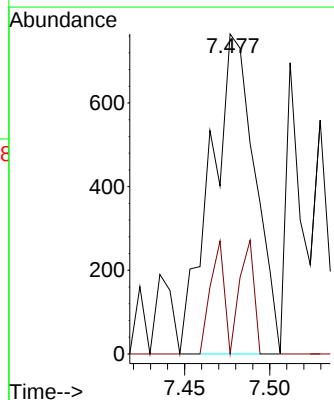
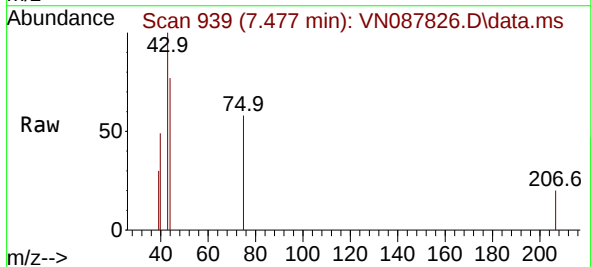
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

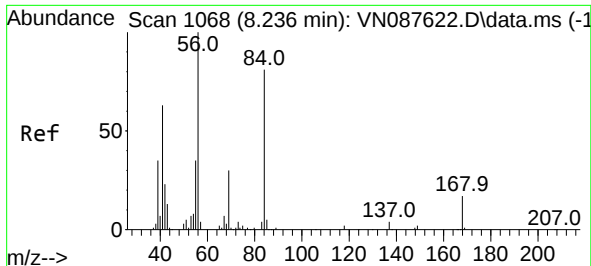
Tgt Ion: 96 Resp: 692
Ion Ratio Lower Upper
96 100
61 82.7 118.0 177.0#
98 0.0 50.0 75.0#



#25
2-Butanone
Concen: 0.444 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 43 Resp: 1379
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

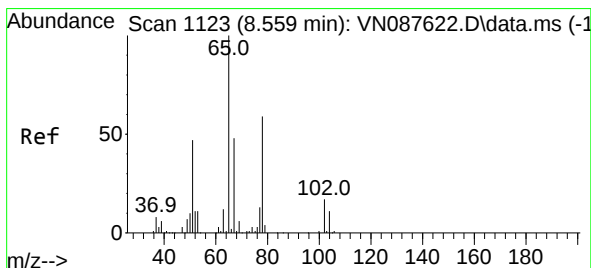
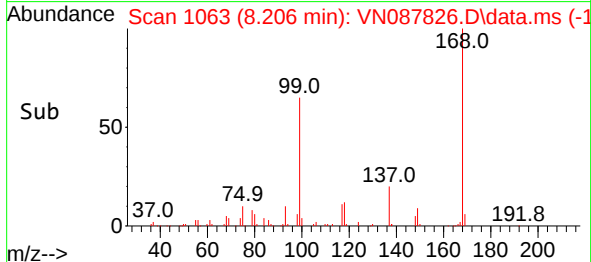
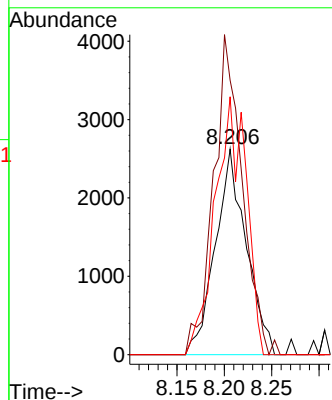
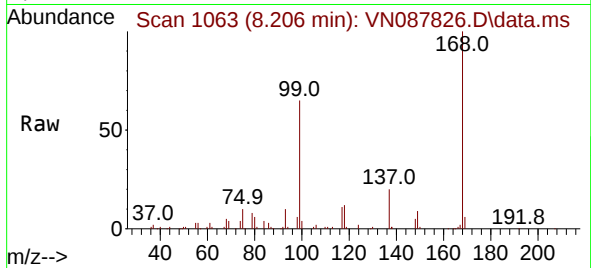




#31
Cyclohexane
Concen: 1.092 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

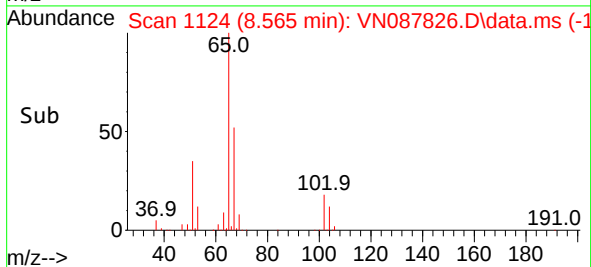
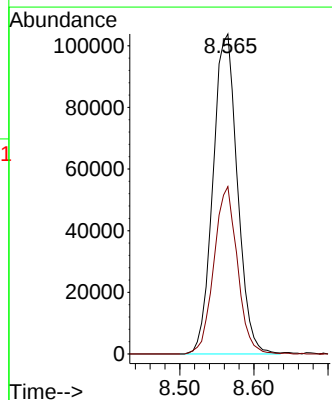
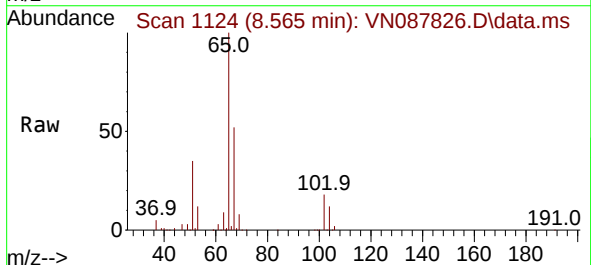
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

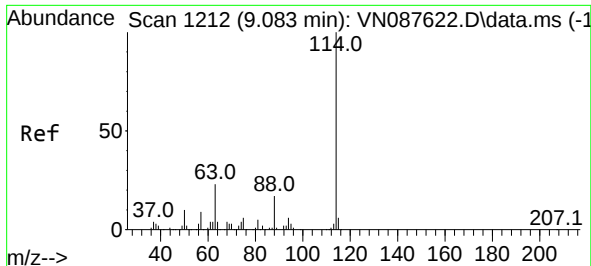
Tgt Ion: 56 Resp: 5949
Ion Ratio Lower Upper
56 100
69 133.5 23.7 35.5#
84 125.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 54.852 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 65 Resp: 237617
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087826.D

Acq: 15 Sep 2025 11:11

Instrument :

MSVOA_N

ClientSampleId :

90525-LQ

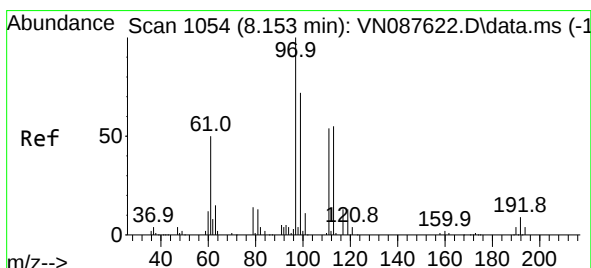
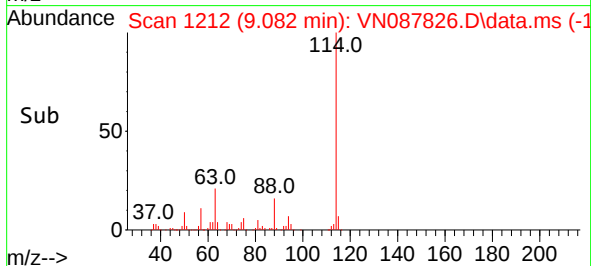
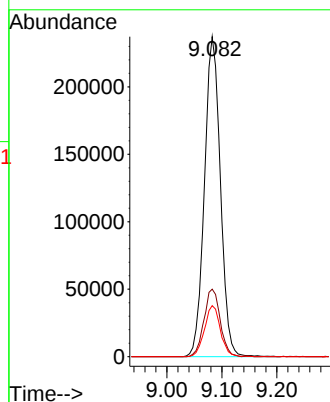
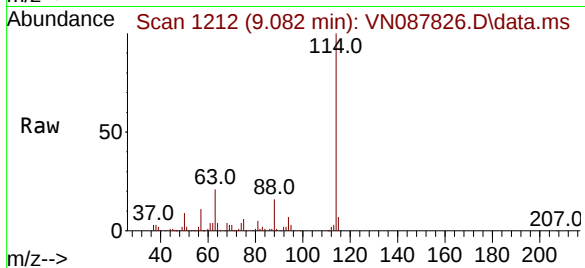
Tgt Ion:114 Resp: 477510

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.2

88 15.9 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.826 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087826.D

Acq: 15 Sep 2025 11:11

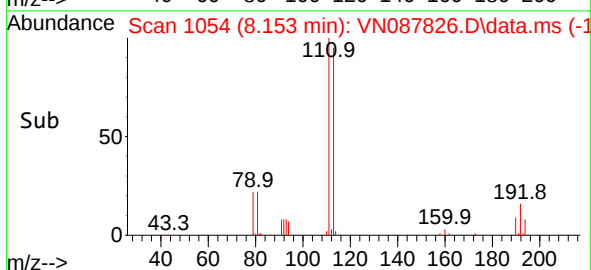
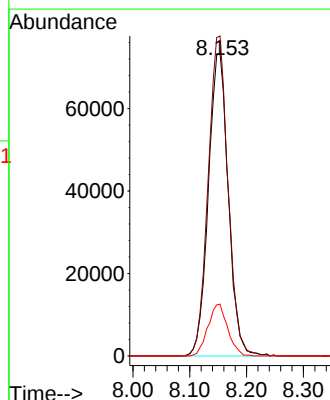
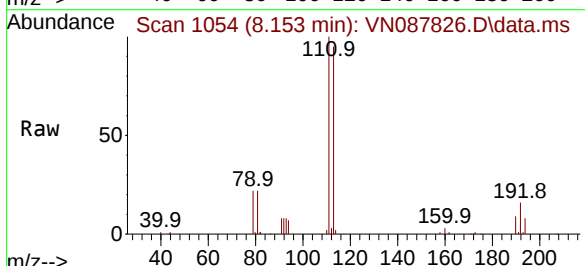
Tgt Ion:113 Resp: 178677

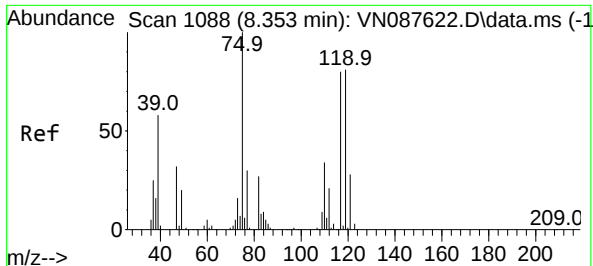
Ion Ratio Lower Upper

113 100

111 105.3 82.8 124.2

192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.503 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087826.D

Acq: 15 Sep 2025 11:11

Instrument :

MSVOA_N

ClientSampleId :

90525-LQ

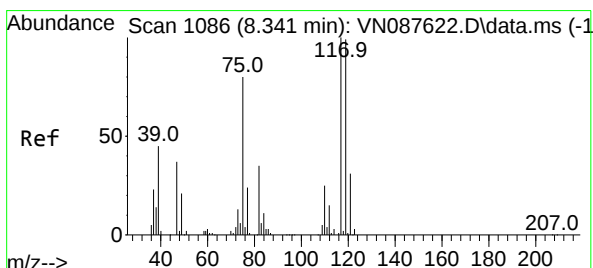
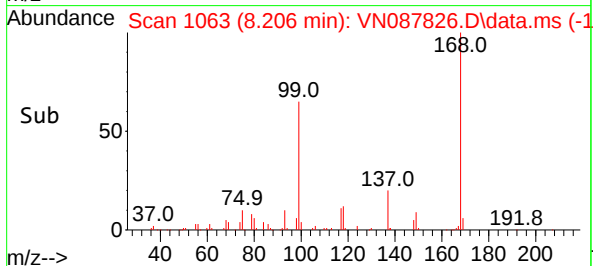
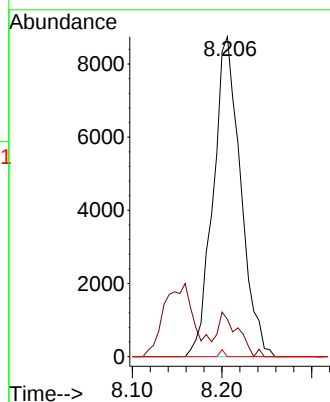
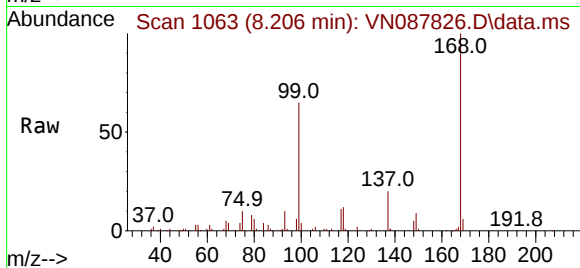
Tgt Ion: 75 Resp: 18529

Ion Ratio Lower Upper

75 100

110 10.3 15.9 47.6#

77 0.4 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.501 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.141 min

Lab File: VN087826.D

Acq: 15 Sep 2025 11:11

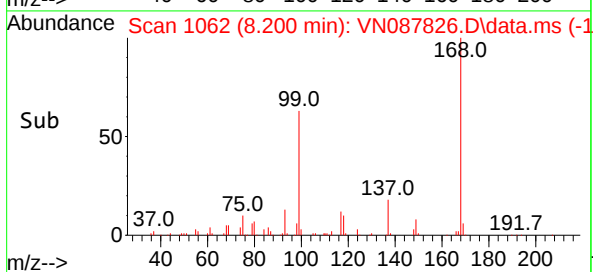
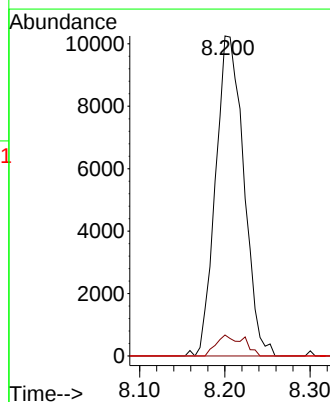
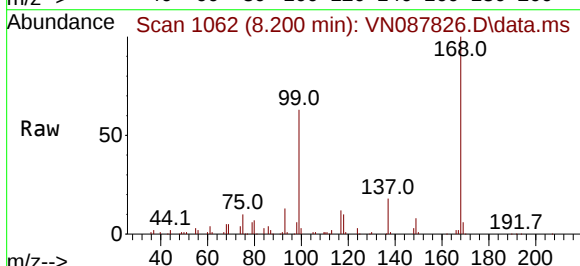
Tgt Ion: 117 Resp: 23502

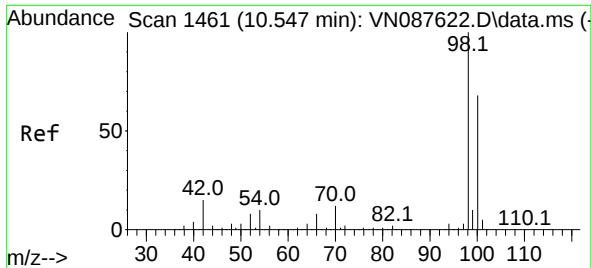
Ion Ratio Lower Upper

117 100

119 6.6 79.0 118.6#

121 0.0 25.0 37.6#

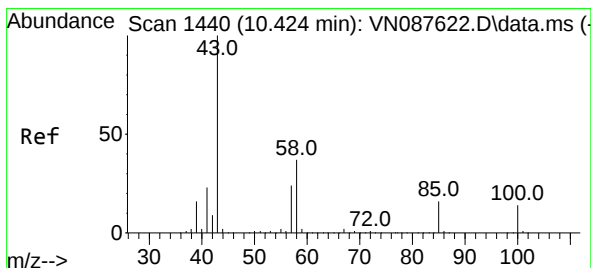
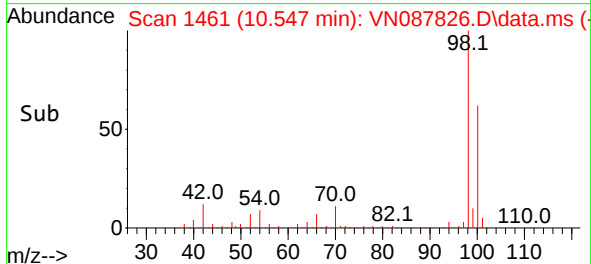
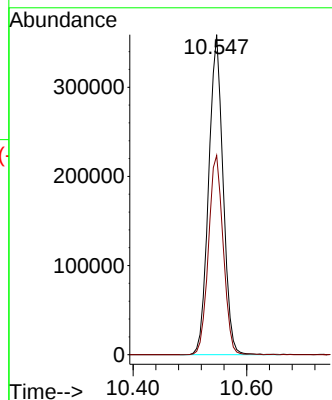
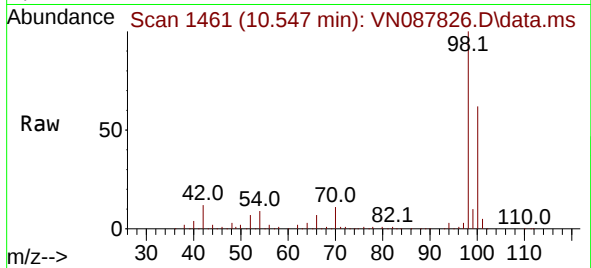




#50
Toluene-d8
Concen: 48.773 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

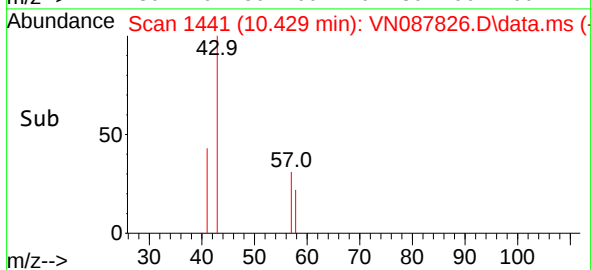
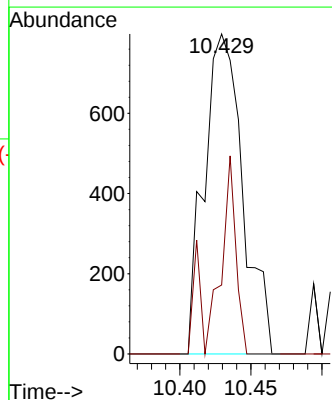
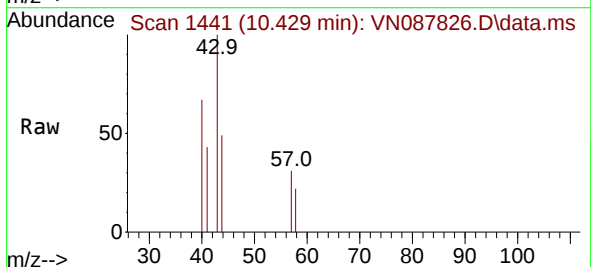
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

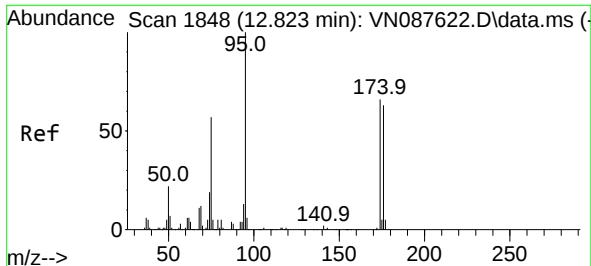
Tgt Ion: 98 Resp: 629350
Ion Ratio Lower Upper
98 100
100 63.6 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.221 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 43 Resp: 1507
Ion Ratio Lower Upper
43 100
58 23.1 29.6 44.4#

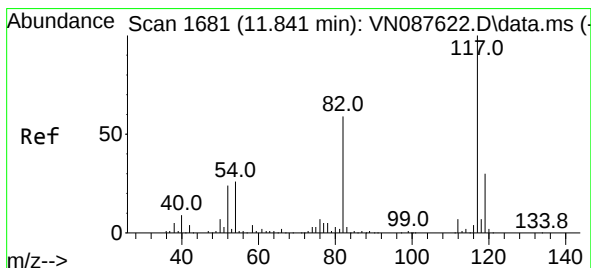
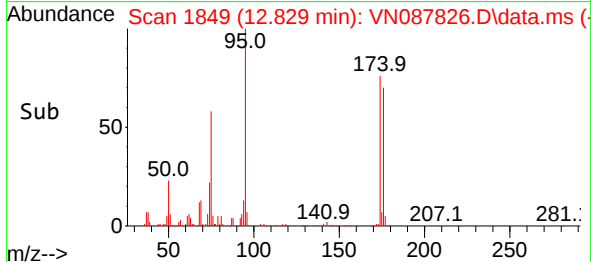
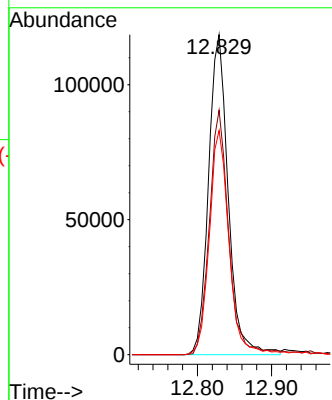
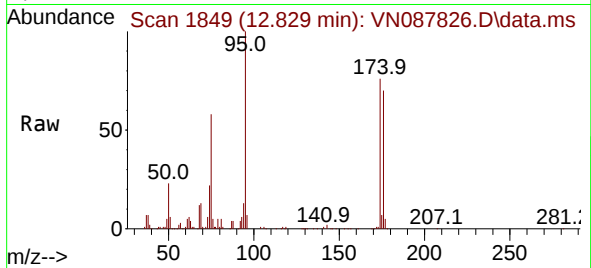




#62
4-Bromofluorobenzene
Concen: 47.617 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

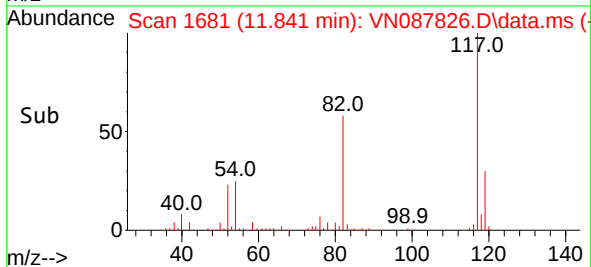
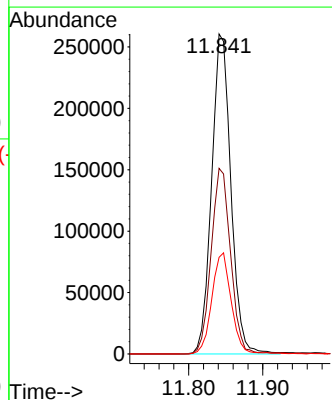
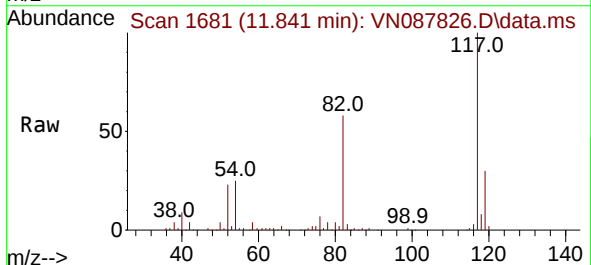
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

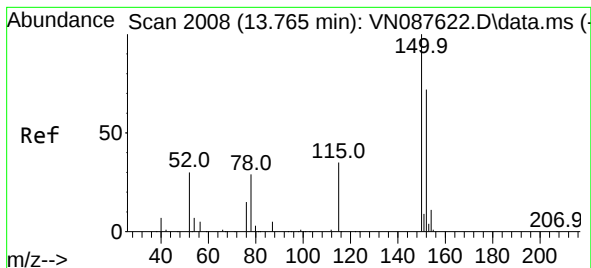
Tgt Ion: 95 Resp: 218515
Ion Ratio Lower Upper
95 100
174 75.8 0.0 138.4
176 69.9 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 117 Resp: 470640
Ion Ratio Lower Upper
117 100
82 58.0 47.4 71.2
119 30.2 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087826.D

Acq: 15 Sep 2025 11:11

Instrument :

MSVOA_N

ClientSampleId :

90525-LQ

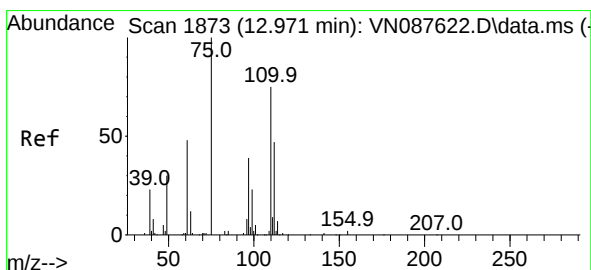
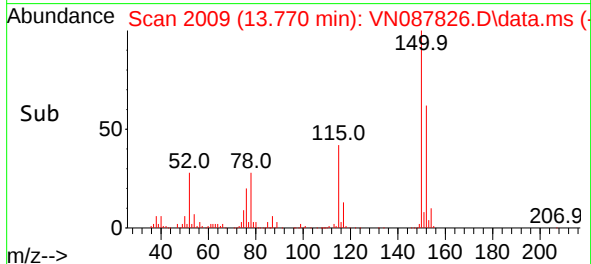
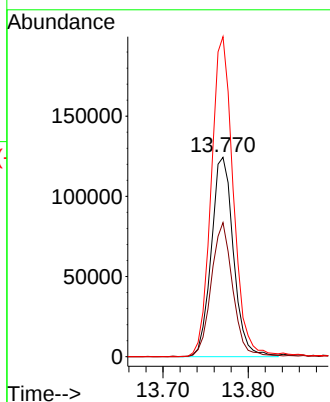
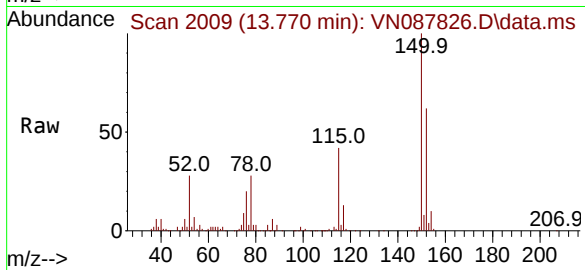
Tgt Ion:152 Resp: 225379

Ion Ratio Lower Upper

152 100

115 64.9 32.3 96.8

150 160.7 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.557 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087826.D

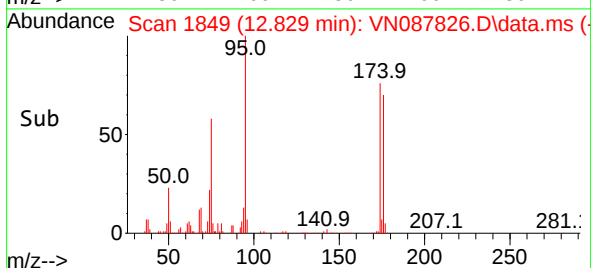
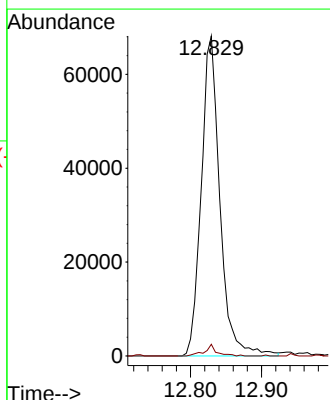
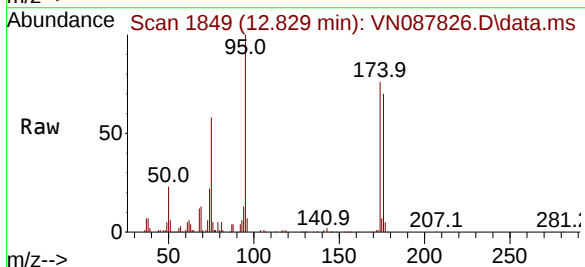
Acq: 15 Sep 2025 11:11

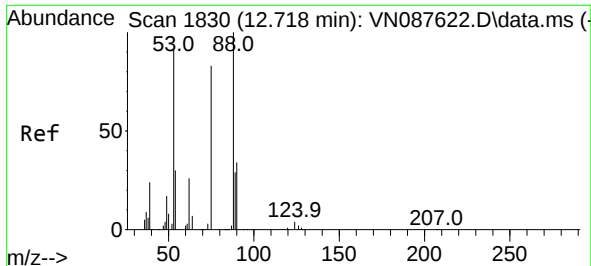
Tgt Ion: 75 Resp: 124506

Ion Ratio Lower Upper

75 100

77 2.3 89.1 267.4#

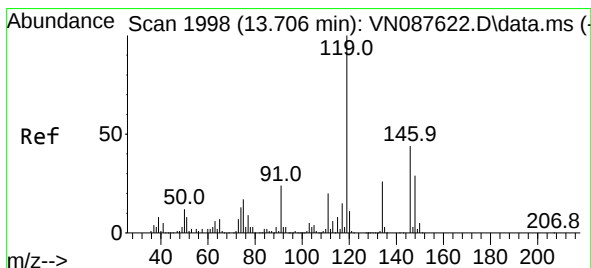
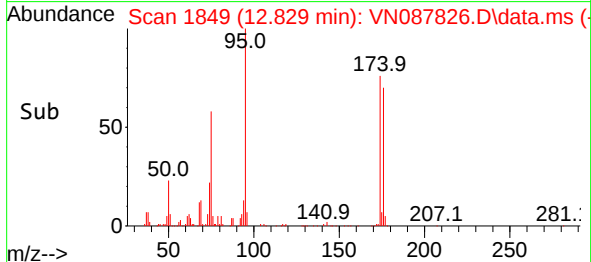
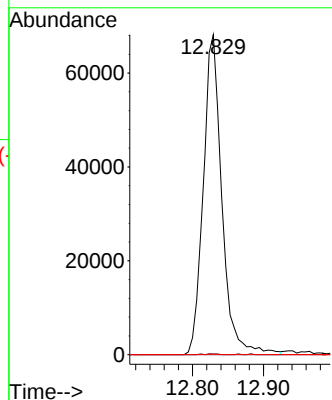
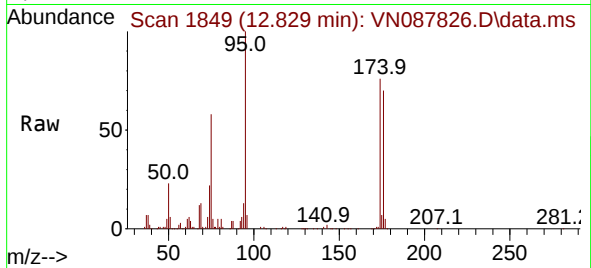




#81
trans-1,4-Dichloro-2-butene
Concen: 62.365 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

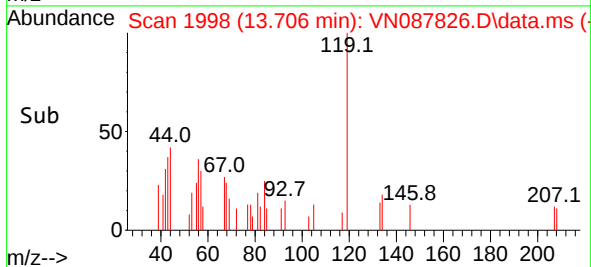
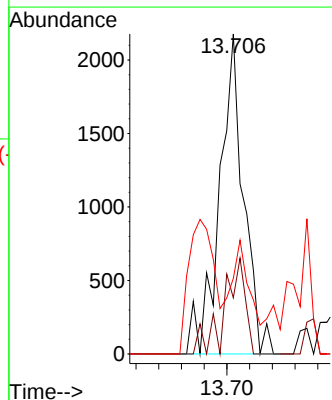
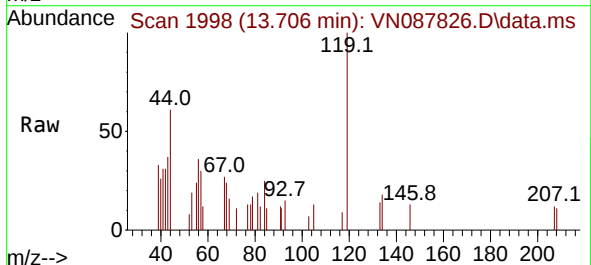
Instrument :
MSVOA_N
ClientSampleId :
90525-LQ

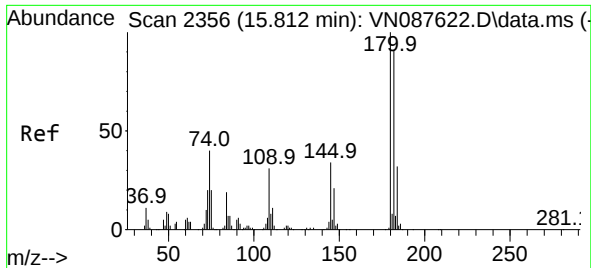
Tgt Ion: 75 Resp: 124506
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.0 35.6 53.4#



#86
p-Isopropyltoluene
Concen: 0.204 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087826.D
Acq: 15 Sep 2025 11:11

Tgt Ion: 119 Resp: 3214
Ion Ratio Lower Upper
119 100
134 23.7 12.7 38.0
91 32.5 12.5 37.5





#96
 1,2,3-Trichlorobenzene
 Concen: 0.201 ug/l
 RT: 15.817 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN087826.D
 Acq: 15 Sep 2025 11:11

Instrument :
 MSVOA_N
 ClientSampleId :
 90525-LQ

Tgt Ion	Ratio	Lower	Upper
180	100		
182	18.2	46.8	140.3#
145	0.0	17.3	52.0#

