

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090525\
 Data File : VN087735.D
 Acq On : 05 Sep 2025 12:13
 Operator : JC\MD
 Sample : VN0905WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 06 01:02:55 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	157950	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	371230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	344375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	156701	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	175360	54.187	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 108.380%		
35) Dibromofluoromethane	8.153	113	135893	50.701	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.400%		
50) Toluene-d8	10.547	98	479308	47.779	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 95.560%		
62) 4-Bromofluorobenzene	12.829	95	160337	44.942	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 89.880%		

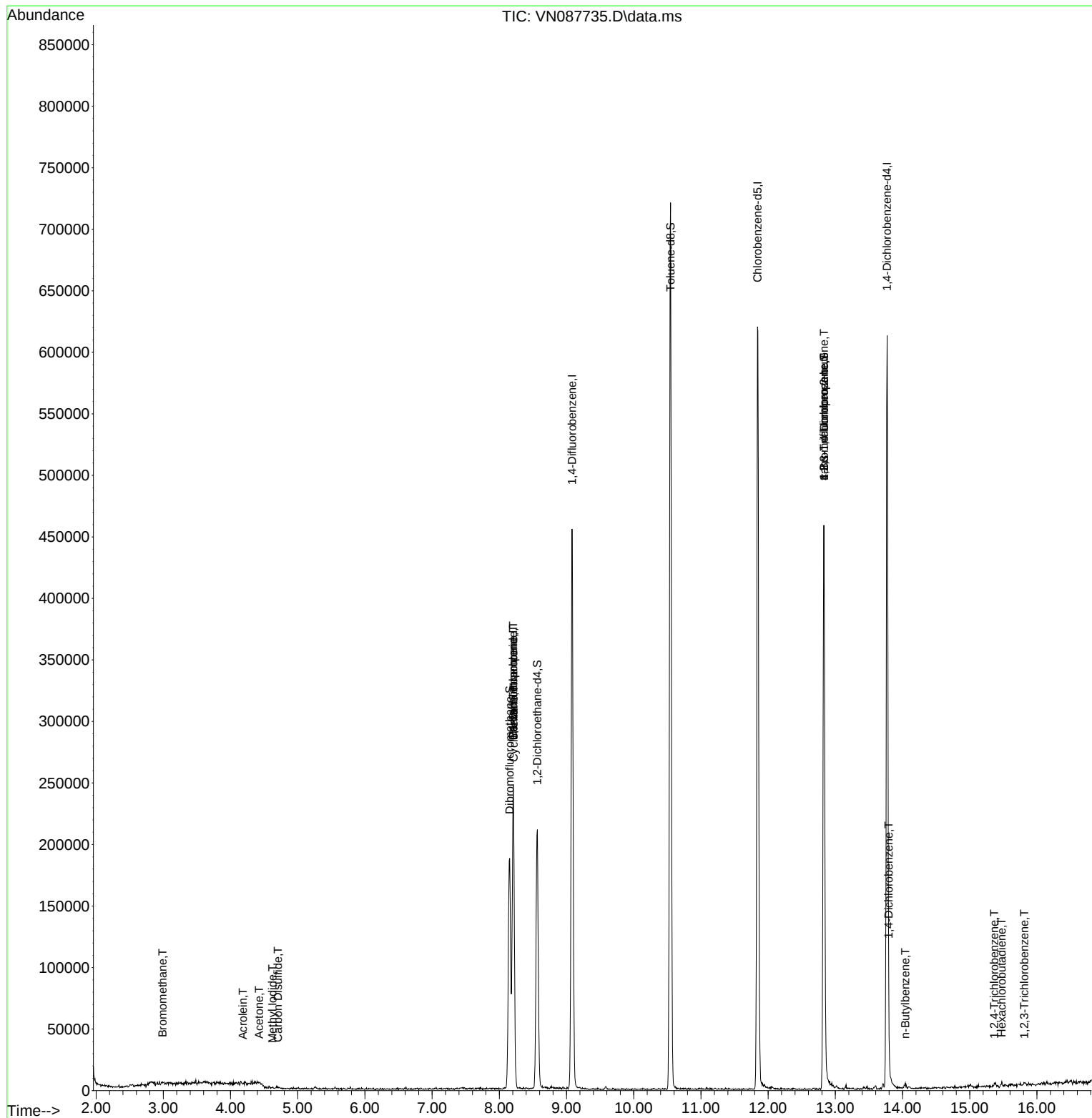
Target Compounds					Qvalue	
5) Bromomethane	2.989	94	512	0.371	ug/l	85
10) Methyl Iodide	4.624	142	61	6.842	ug/l #	38
13) Acrolein	4.183	56	228	0.330	ug/l #	1
16) Acetone	4.424	43	2115	1.201	ug/l #	78
17) Carbon Disulfide	4.706	76	2259	0.360	ug/l #	74
20) Methylene Chloride	5.248	84	557	Below Cal	#	43
31) Cyclohexane	8.212	56	5395	1.325	ug/l #	37
36) 1,1-Dichloropropene	8.206	75	16655	4.050	ug/l #	50
38) Carbon Tetrachloride	8.206	117	18883	4.651	ug/l #	16
76) 1,2,3-Trichloropropane	12.829	75	93516	25.448	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	93516	67.372	ug/l #	1
88) 1,4-Dichlorobenzene	13.794	146	1357	0.222	ug/l #	1
89) n-Butylbenzene	14.041	91	2615	0.240	ug/l	94
93) 1,2,4-Trichlorobenzene	15.365	180	785	0.234	ug/l	87
94) Hexachlorobutadiene	15.476	225	612	0.513	ug/l #	63
96) 1,2,3-Trichlorobenzene	15.812	180	812	0.248	ug/l #	57

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

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Acq On : 05 Sep 2025 12:13
Operator : JC\MD
Sample : VN0905WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

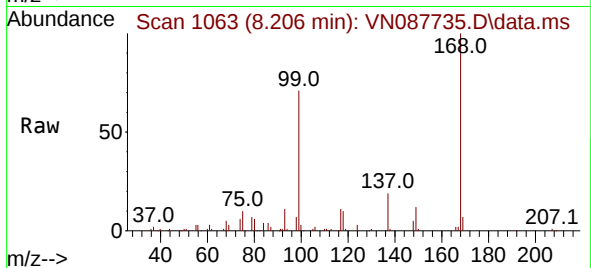
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



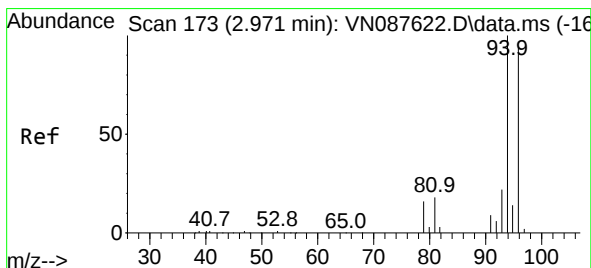
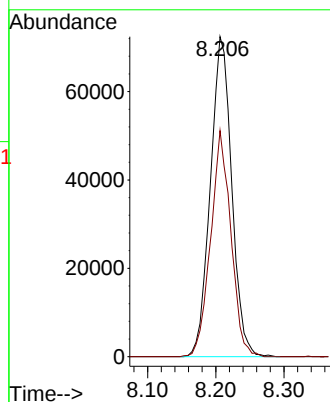
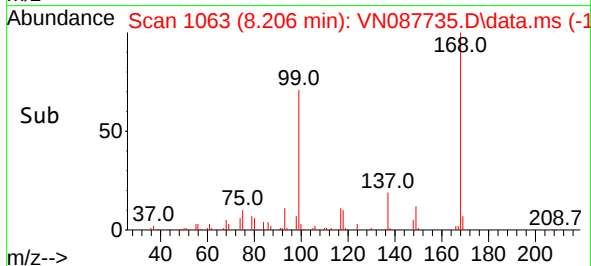


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

Instrument :
MSVOA_N
ClientSampleId :

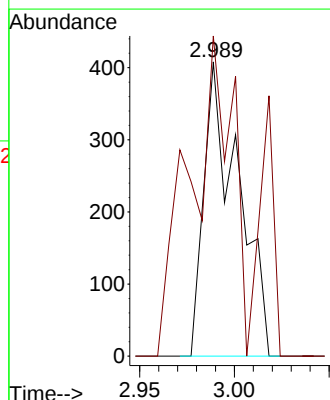
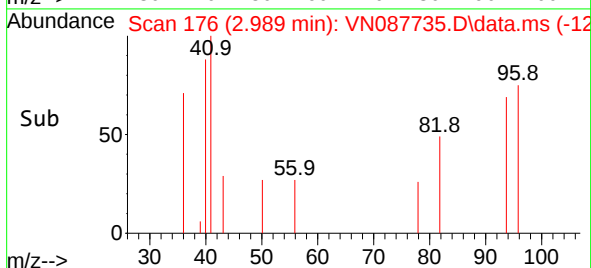
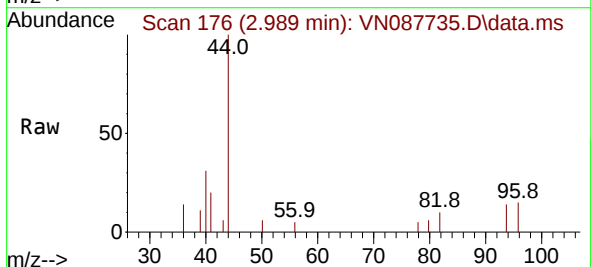


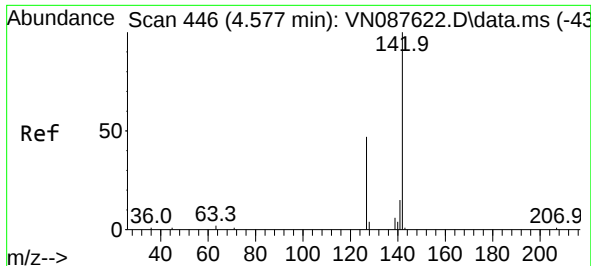
Tgt Ion:168 Resp: 157950
Ion Ratio Lower Upper
168 100
99 70.6 57.2 85.8



#5
Bromomethane
Concen: 0.371 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

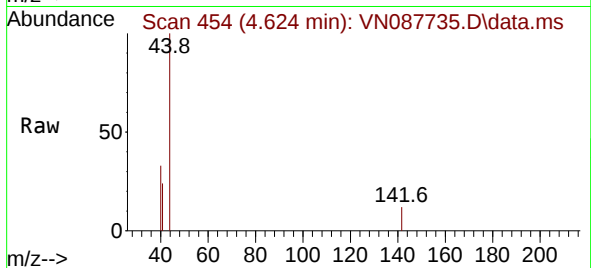
Tgt Ion: 94 Resp: 512
Ion Ratio Lower Upper
94 100
96 108.8 75.4 113.2



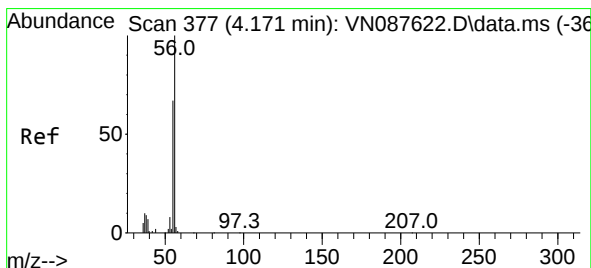
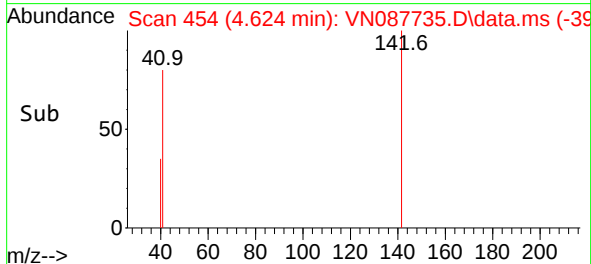
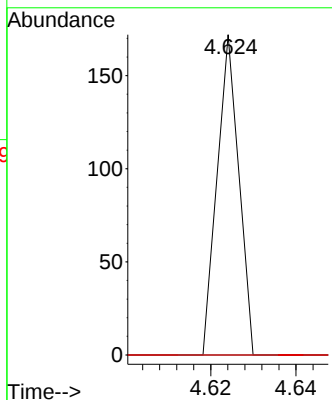


#10
Methyl Iodide
Concen: 6.842 ug/l
RT: 4.624 min Scan# 41
Delta R.T. 0.047 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

Instrument :
MSVOA_N
ClientSampleId :

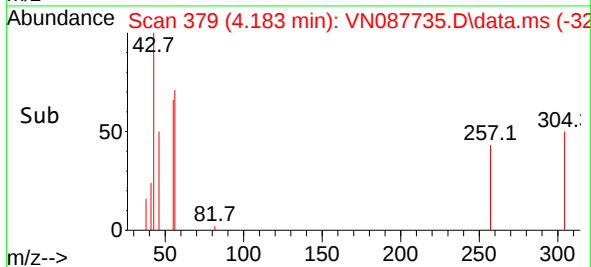
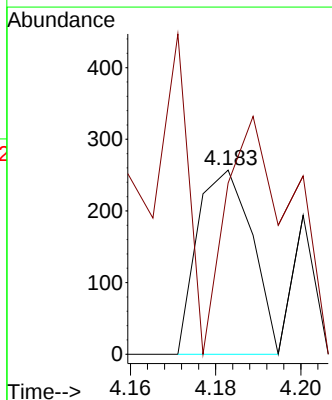
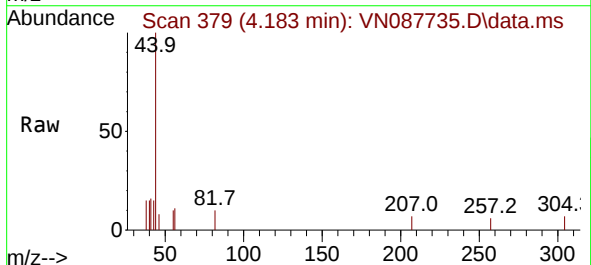


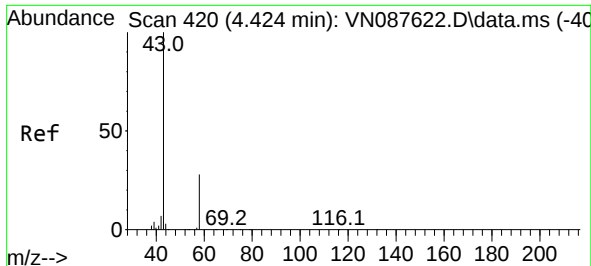
Tgt Ion:142 Resp: 61
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.330 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

Tgt Ion: 56 Resp: 228
Ion Ratio Lower Upper
56 100
55 154.8 57.3 85.9#

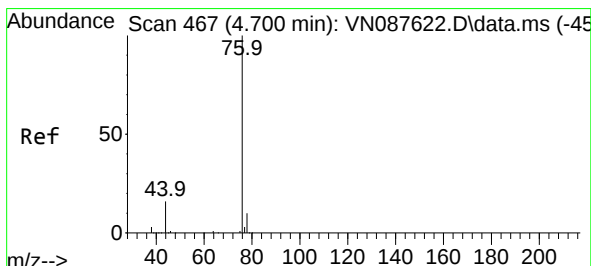
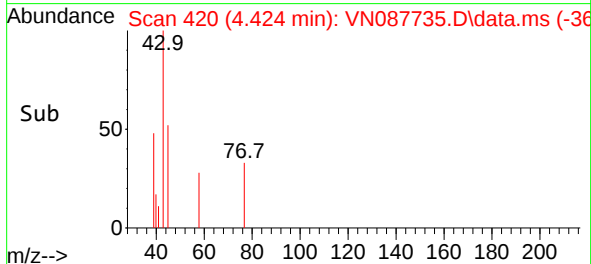
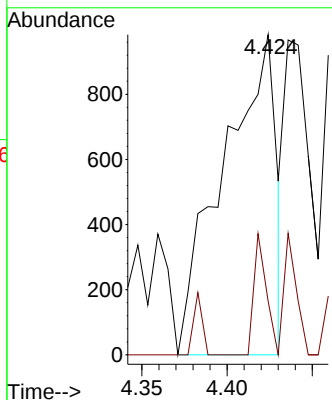
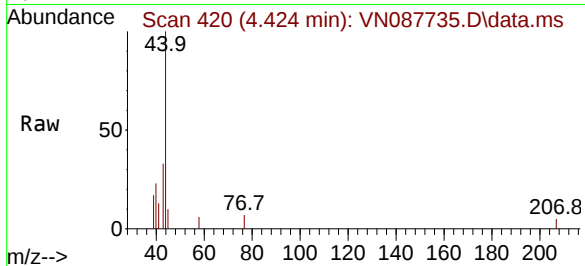




#16
Acetone
Concen: 1.201 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

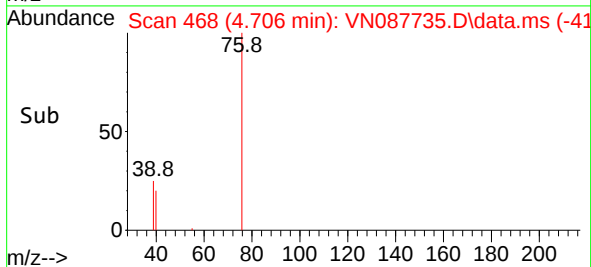
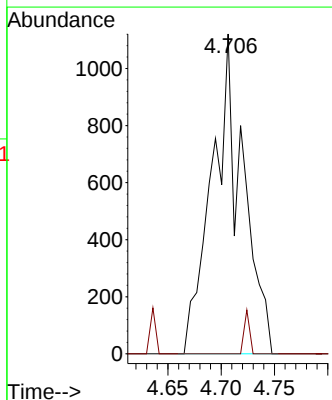
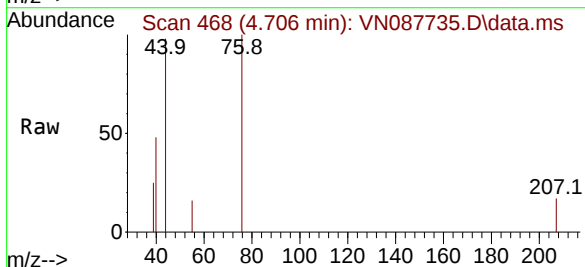
Instrument :
MSVOA_N
ClientSampleId :

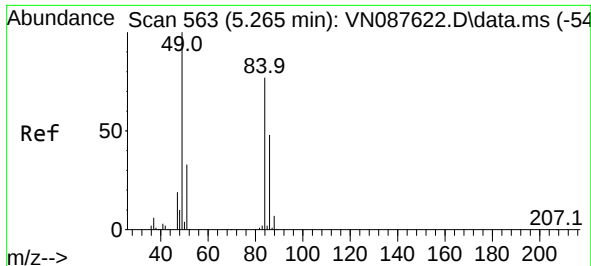
Tgt Ion: 43 Resp: 2115
Ion Ratio Lower Upper
43 100
58 16.8 22.6 33.8#



#17
Carbon Disulfide
Concen: 0.360 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

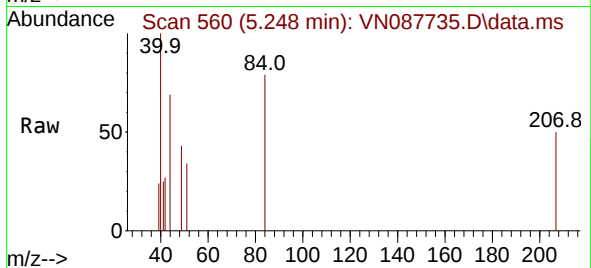
Tgt Ion: 76 Resp: 2259
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



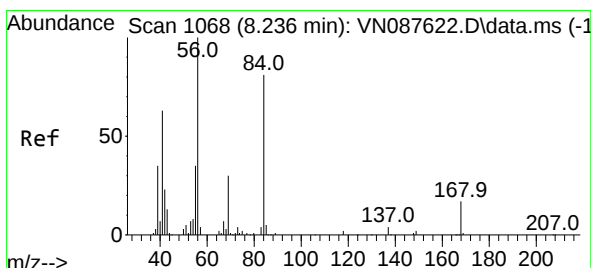
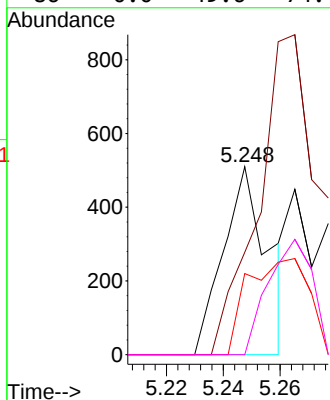
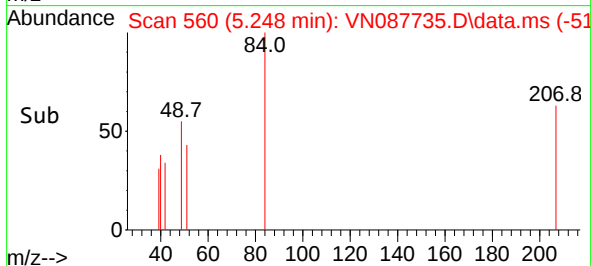


#20
Methylene Chloride
Concen: Below Cal
RT: 5.248 min Scan# 51
Delta R.T. -0.017 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

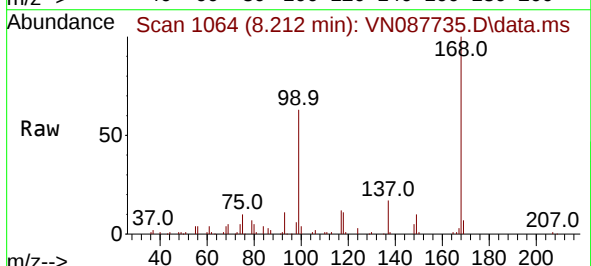
Instrument :
MSVOA_N
ClientSampleId :



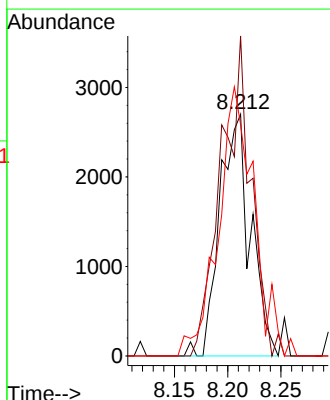
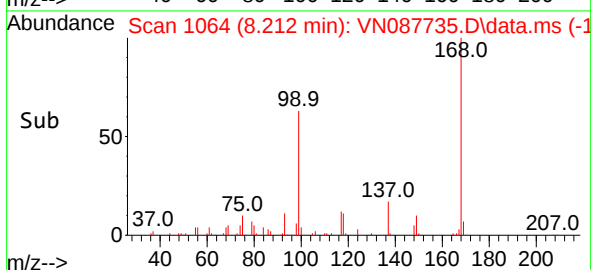
Tgt Ion: 84 Resp: 557
Ion Ratio Lower Upper
84 100
49 54.5 103.4 155.2#
51 43.1 33.8 50.8
86 0.0 49.6 74.4#

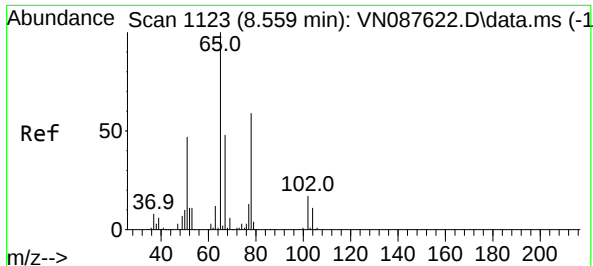


#31
Cyclohexane
Concen: 1.325 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13



Tgt Ion: 56 Resp: 5395
Ion Ratio Lower Upper
56 100
69 132.4 23.7 35.5#
84 95.8 64.7 97.1

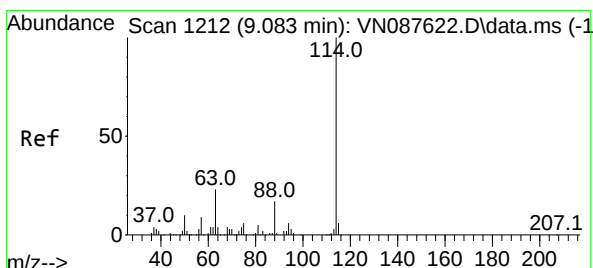
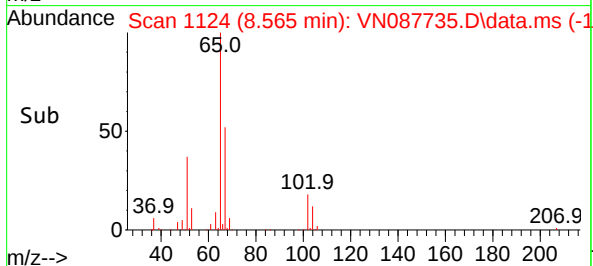
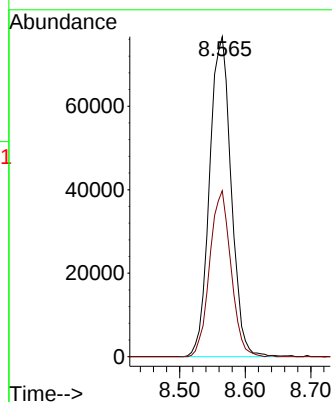
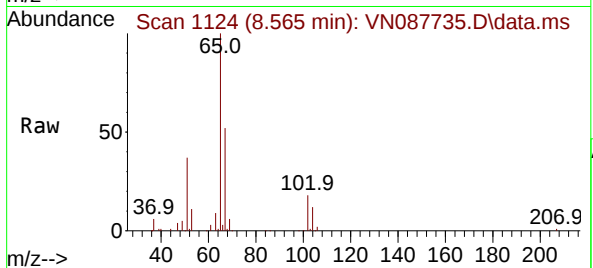




#33
 1,2-Dichloroethane-d4
 Concen: 54.187 ug/l
 RT: 8.565 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: VN087735.D
 Acq: 05 Sep 2025 12:13

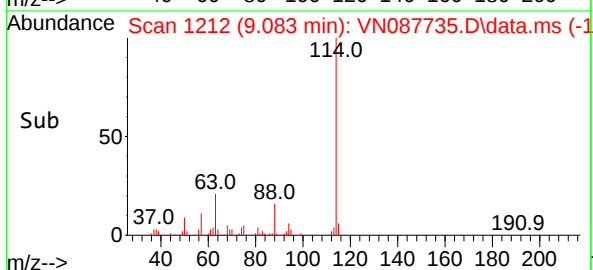
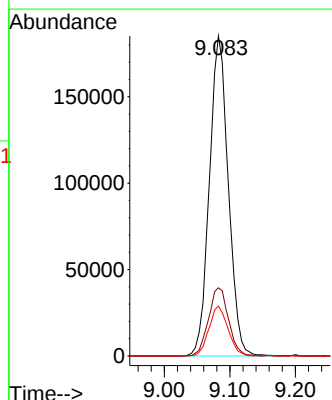
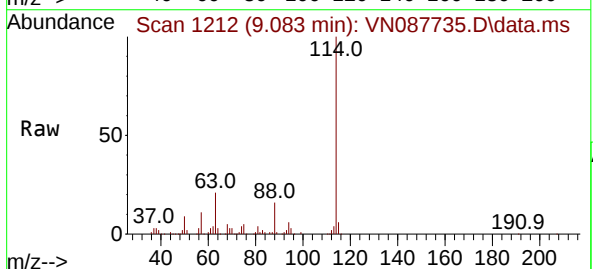
Instrument :
 MSVOA_N
 ClientSampleId :

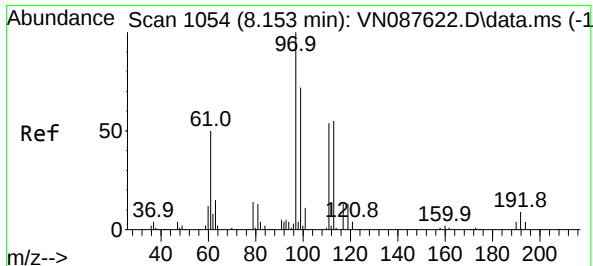
Tgt Ion: 65 Resp: 175360
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 100.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.083 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN087735.D
 Acq: 05 Sep 2025 12:13

Tgt Ion: 114 Resp: 371230
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 45.2
 88 15.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.701 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN087735.D

Acq: 05 Sep 2025 12:13

Instrument :

MSVOA_N

ClientSampleId :

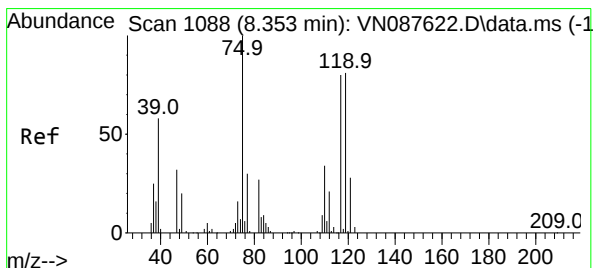
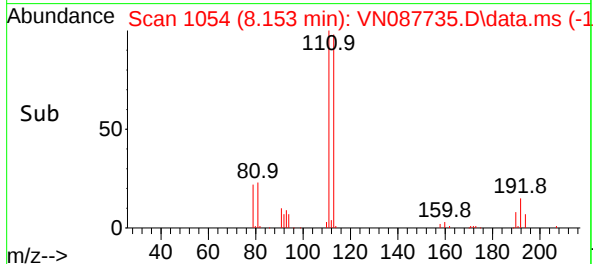
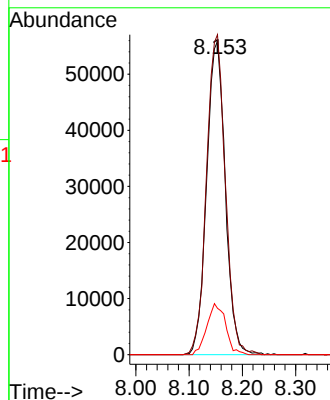
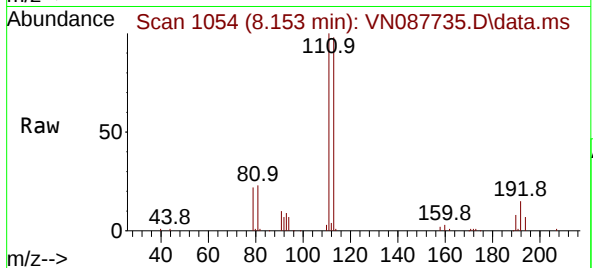
Tgt Ion:113 Resp: 135893

Ion Ratio Lower Upper

113 100

111 103.0 82.8 124.2

192 16.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.050 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087735.D

Acq: 05 Sep 2025 12:13

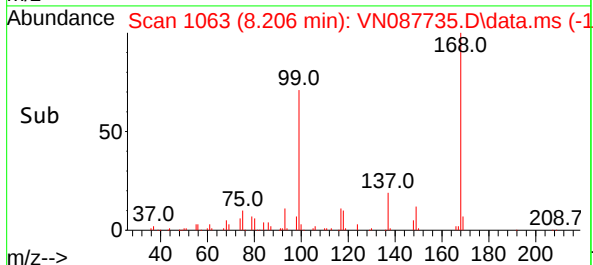
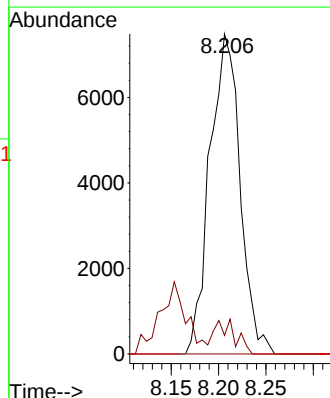
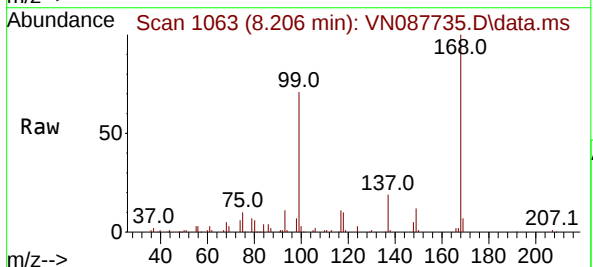
Tgt Ion: 75 Resp: 16655

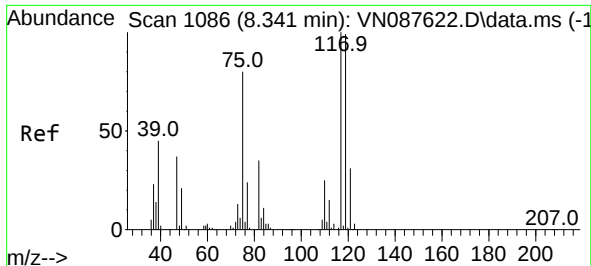
Ion Ratio Lower Upper

75 100

110 7.2 15.9 47.6#

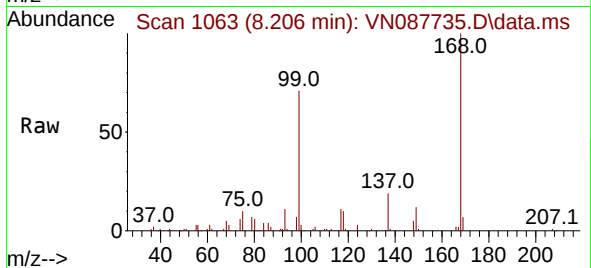
77 0.0 24.4 36.6#



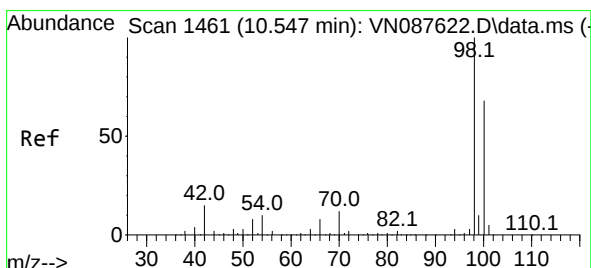
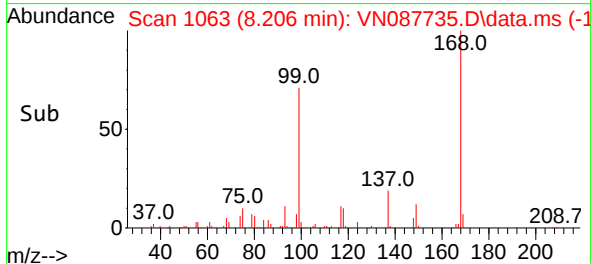
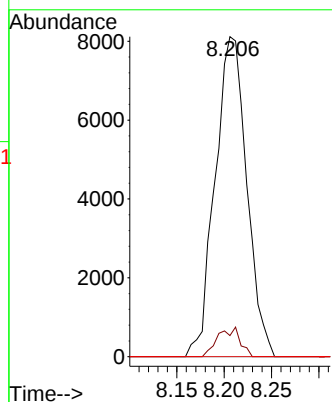


#38
Carbon Tetrachloride
Concen: 4.651 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

Instrument :
MSVOA_N
ClientSampleId :

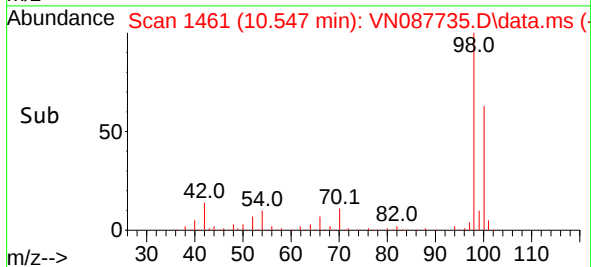
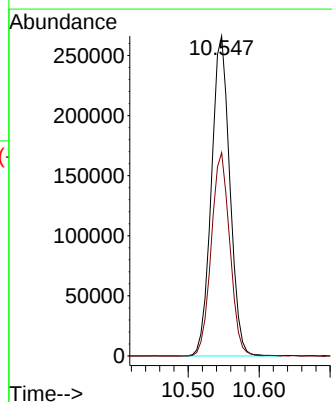
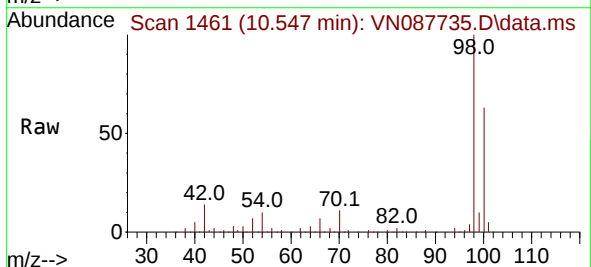


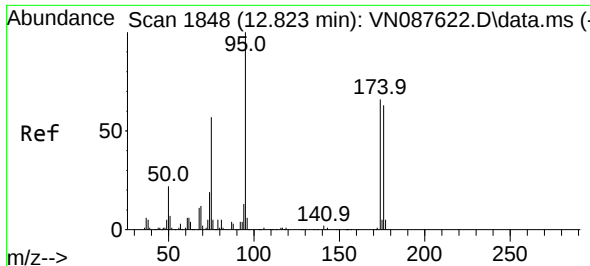
Tgt Ion:117 Resp: 18883
Ion Ratio Lower Upper
117 100
119 6.6 79.0 118.6#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 47.779 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

Tgt Ion: 98 Resp: 479308
Ion Ratio Lower Upper
98 100
100 63.8 52.8 79.2

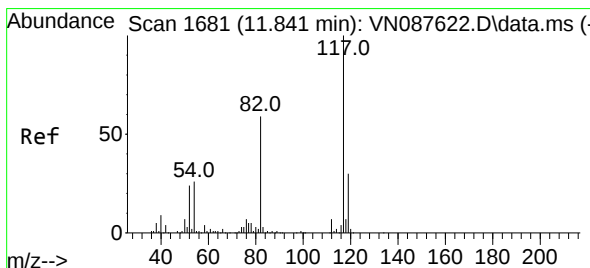
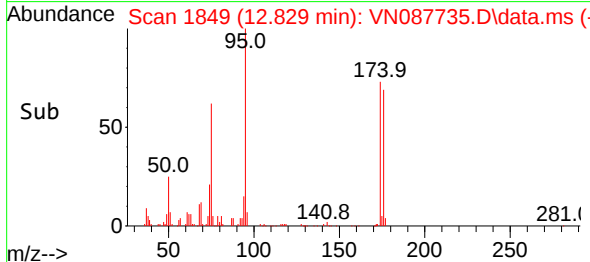
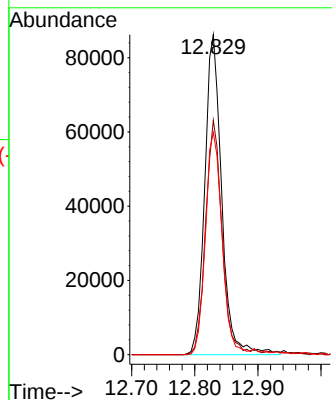
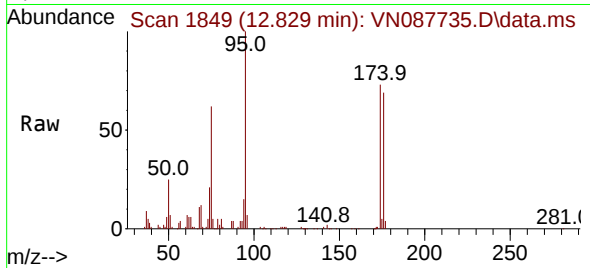




#62
4-Bromofluorobenzene
Concen: 44.942 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

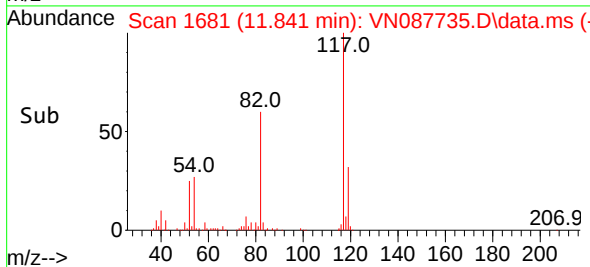
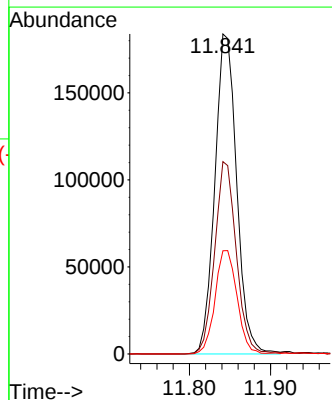
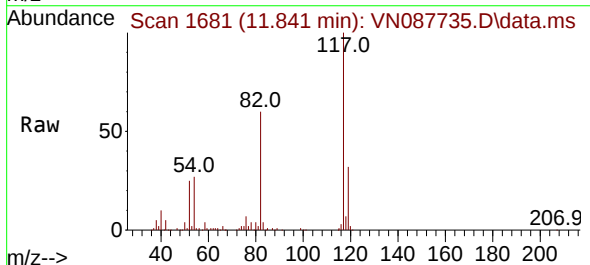
Instrument :
MSVOA_N
ClientSampleId :

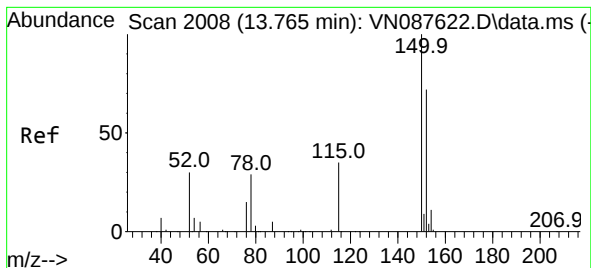
Tgt Ion: 95 Resp: 160337
Ion Ratio Lower Upper
95 100
174 71.7 0.0 138.4
176 68.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

Tgt Ion: 117 Resp: 344375
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 32.3 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 20

Delta R.T. 0.006 min

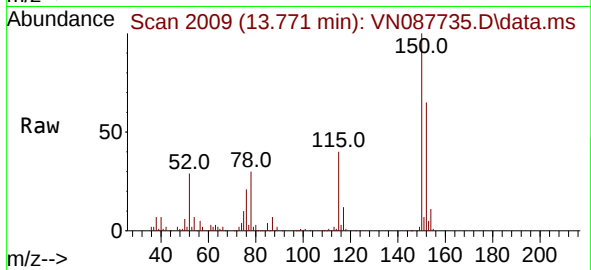
Lab File: VN087735.D

Acq: 05 Sep 2025 12:13

Instrument :

MSVOA_N

ClientSampleId :



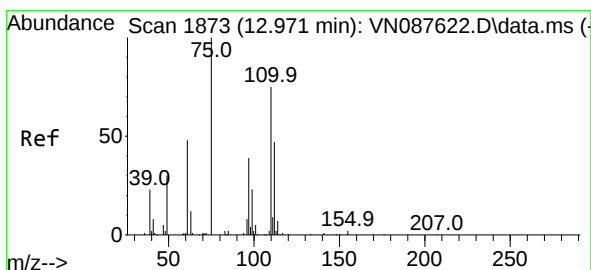
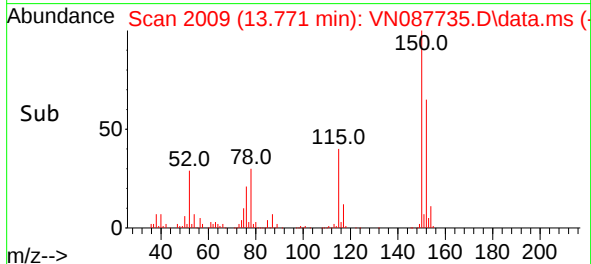
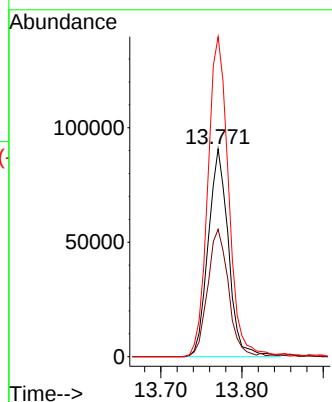
Tgt Ion:152 Resp: 156701

Ion Ratio Lower Upper

152 100

115 63.6 32.3 96.8

150 158.0 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 25.448 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087735.D

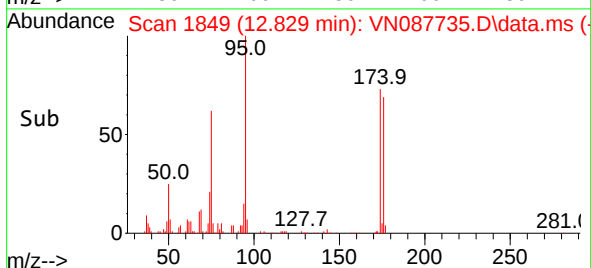
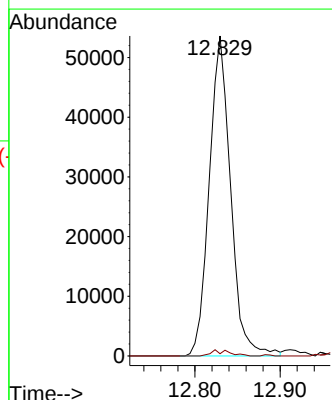
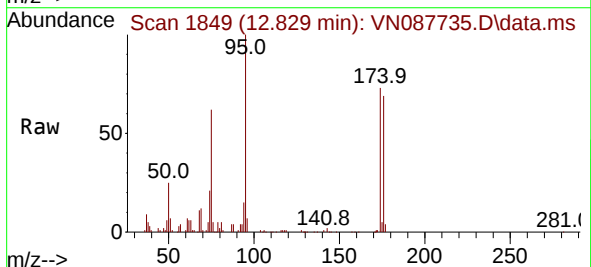
Acq: 05 Sep 2025 12:13

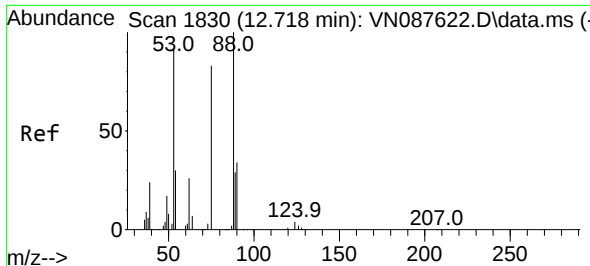
Tgt Ion: 75 Resp: 93516

Ion Ratio Lower Upper

75 100

77 1.6 89.1 267.4#

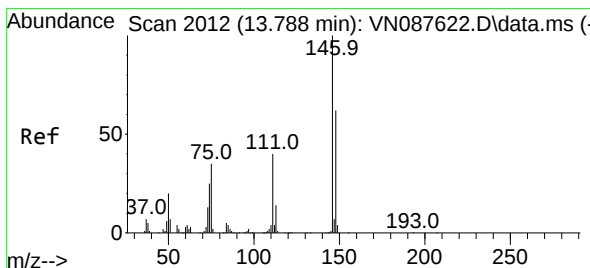
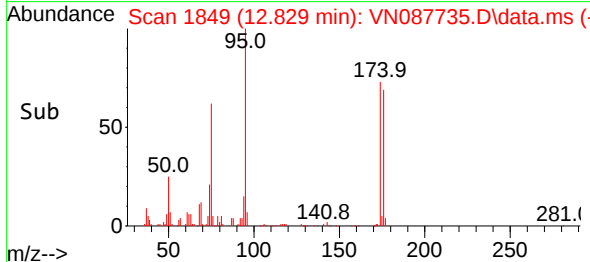
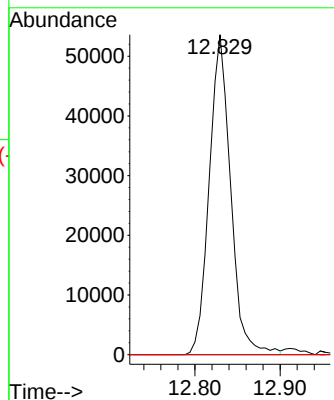
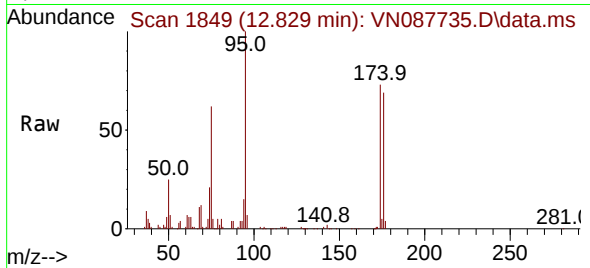




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.372 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087735.D
 Acq: 05 Sep 2025 12:13

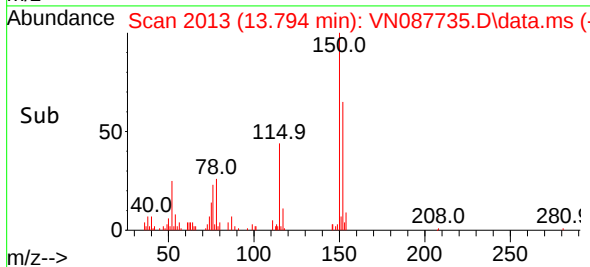
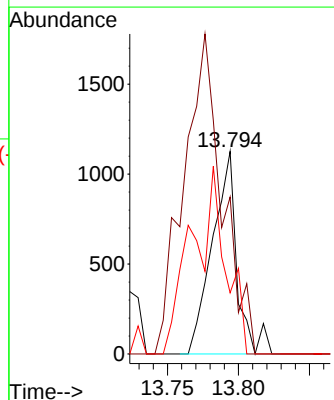
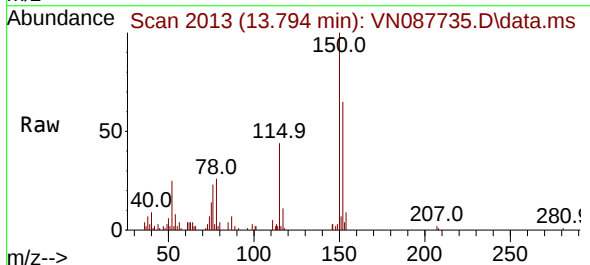
Instrument :
 MSVOA_N
 ClientSampleId :

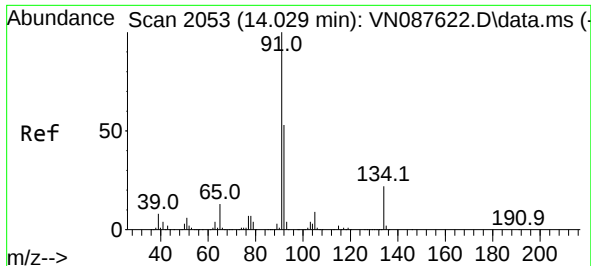
Tgt Ion: 75 Resp: 93516
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 35.6 53.4#



#88
 1,4-Dichlorobenzene
 Concen: 0.222 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.006 min
 Lab File: VN087735.D
 Acq: 05 Sep 2025 12:13

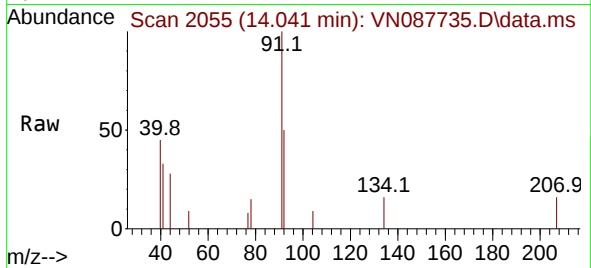
Tgt Ion:146 Resp: 1357
 Ion Ratio Lower Upper
 146 100
 111 247.4 21.0 63.0#
 148 126.2 32.0 96.0#



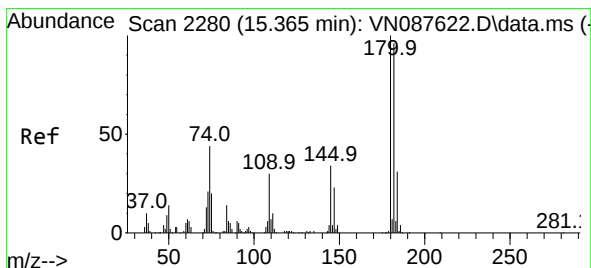
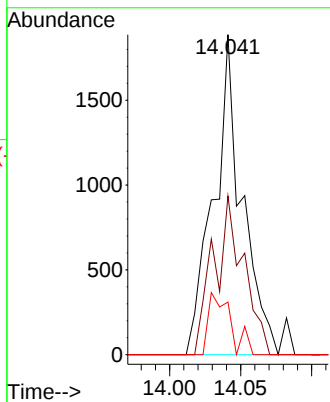
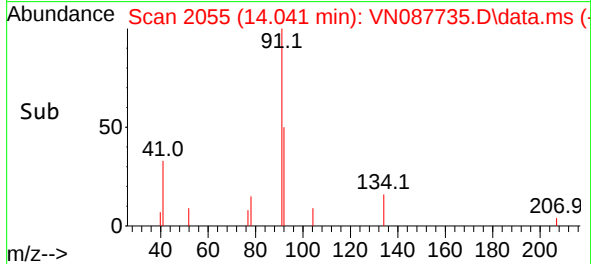


#89
n-Butylbenzene
Concen: 0.240 ug/l
RT: 14.041 min Scan# 2055
Delta R.T. 0.012 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13

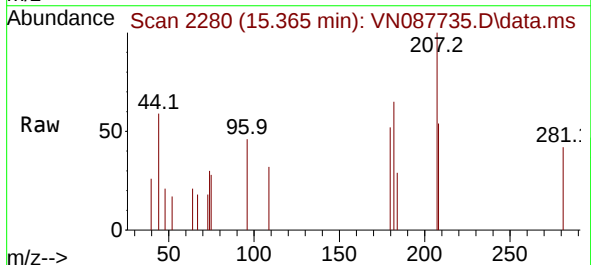
Instrument :
MSVOA_N
ClientSampleId :



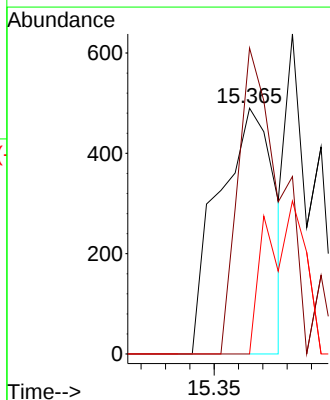
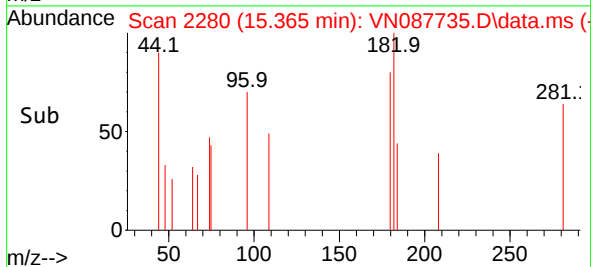
Tgt Ion: 91 Resp: 2615
Ion Ratio Lower Upper
91 100
92 52.4 25.9 77.8
134 15.2 11.7 35.0

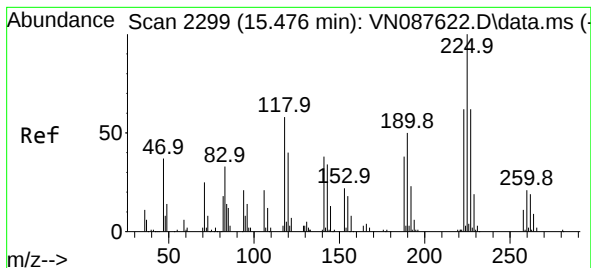


#93
1,2,4-Trichlorobenzene
Concen: 0.234 ug/l
RT: 15.365 min Scan# 2280
Delta R.T. 0.000 min
Lab File: VN087735.D
Acq: 05 Sep 2025 12:13



Tgt Ion: 180 Resp: 785
Ion Ratio Lower Upper
180 100
182 106.6 47.6 142.9
145 42.7 16.5 49.5





#94

Hexachlorobutadiene

Concen: 0.513 ug/l

RT: 15.476 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087735.D

Acq: 05 Sep 2025 12:13

Instrument :

MSVOA_N

ClientSampleId :

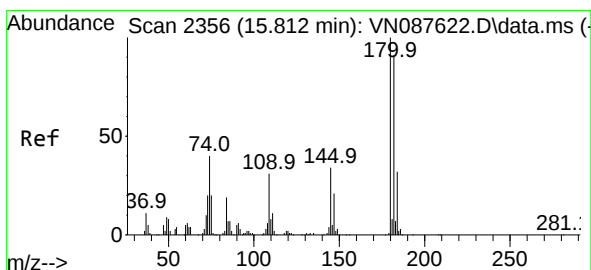
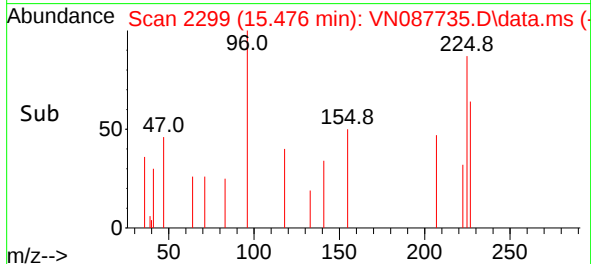
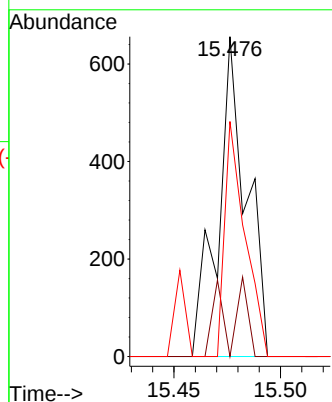
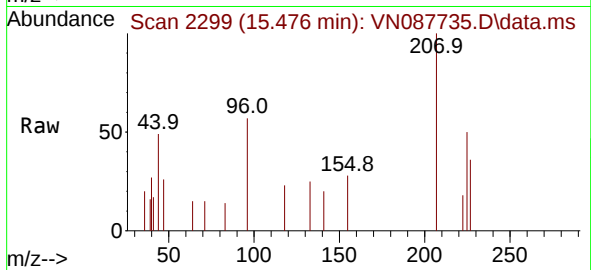
Tgt Ion:225 Resp: 612

Ion Ratio Lower Upper

225 100

223 18.5 32.0 96.2#

227 52.0 32.1 96.5



#96

1,2,3-Trichlorobenzene

Concen: 0.248 ug/l

RT: 15.812 min Scan# 2356

Delta R.T. 0.000 min

Lab File: VN087735.D

Acq: 05 Sep 2025 12:13

Tgt Ion:180 Resp: 812

Ion Ratio Lower Upper

180 100

182 48.4 46.8 140.3

145 14.9 17.3 52.0#

