

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
 Data File : VN087289.D
 Acq On : 07 Jul 2025 13:05
 Operator : JC\MD
 Sample : Q2487-23
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 G2(9)

Quant Time: Jul 08 01:32:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

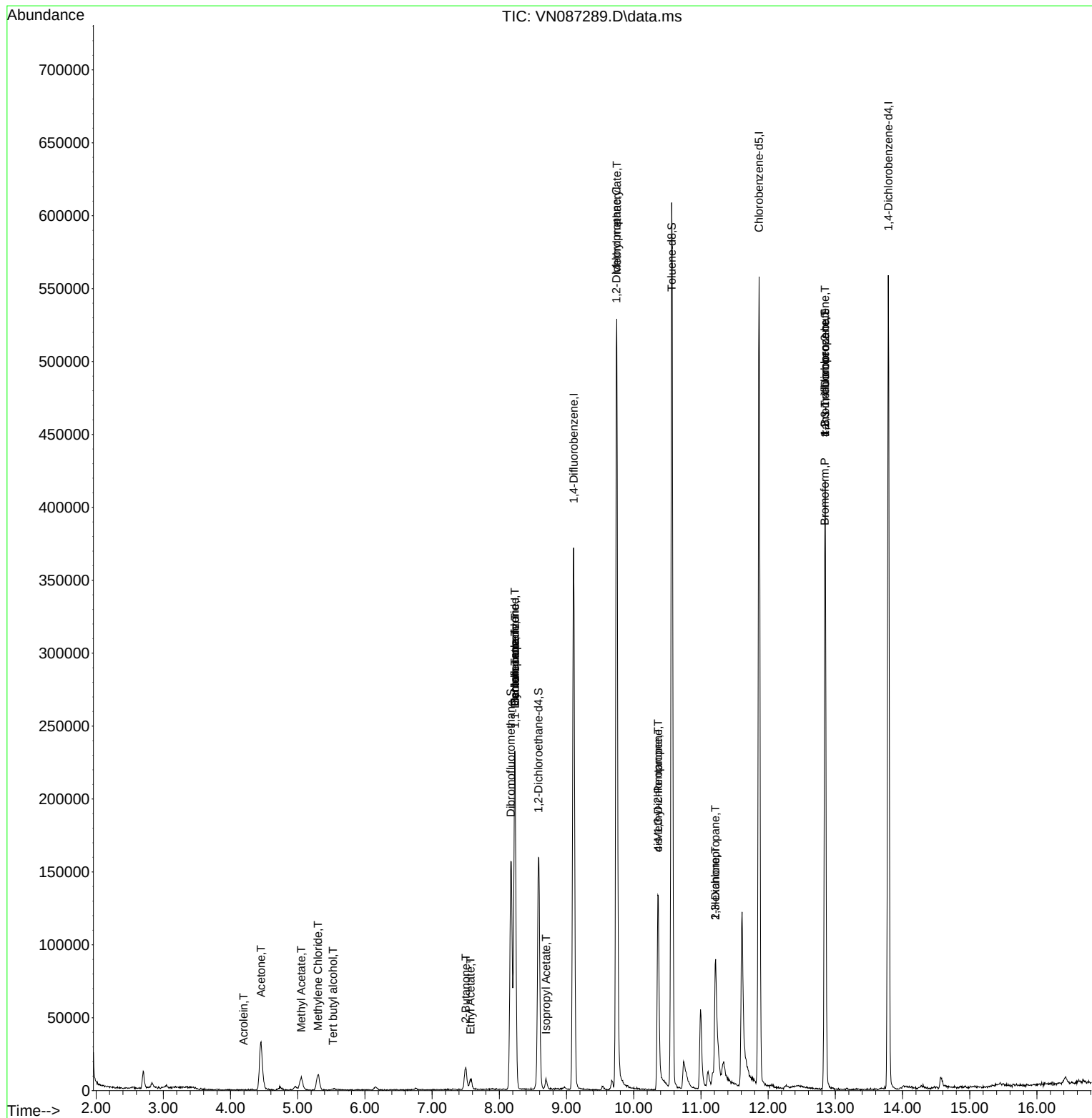
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	180189	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	346519	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337646	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	160324	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	134667	59.548	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	119.100%
35) Dibromofluoromethane	8.171	113	118485	53.401	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.800%
50) Toluene-d8	10.565	98	436873	50.515	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.020%
62) 4-Bromofluorobenzene	12.847	95	147410	47.905	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.800%
Target Compounds						Qvalue
11) Tert butyl alcohol	5.524	59	790	1.917	ug/l #	72
13) Acrolein	4.195	56	63	0.221	ug/l #	13
16) Acetone	4.453	43	65948	76.276	ug/l	100
18) Methyl Acetate	5.053	43	18086	9.138	ug/l	94
20) Methylene Chloride	5.300	84	9317	4.865	ug/l	95
25) 2-Butanone	7.500	43	25559	18.916	ug/l	99
31) Cyclohexane	8.230	56	3243	1.053	ug/l #	44
36) 1,1-Dichloropropene	8.236	75	13723	4.548	ug/l #	45
37) Ethyl Acetate	7.571	43	9847	3.036	ug/l #	94
38) Carbon Tetrachloride	8.230	117	17648	5.162	ug/l #	18
43) Isopropyl Acetate	8.694	43	7311	1.453	ug/l	92
45) 1,2-Dichloropropane	9.741	63	627	0.308	ug/l #	45
48) Methyl methacrylate	9.747	41	51786	24.427	ug/l #	35
51) 4-Methyl-2-Pentanone	10.365	43	59849	19.446	ug/l #	44
54) cis-1,3-Dichloropropene	10.365	75	31452	8.704	ug/l #	65
57) 1,3-Dichloropropane	11.212	76	1588	0.420	ug/l #	41
59) 2-Hexanone	11.212	43	18366	8.331	ug/l #	59
71) Bromoform	12.841	173	1347	0.667	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	72982	23.933	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72982	56.215	ug/l #	14

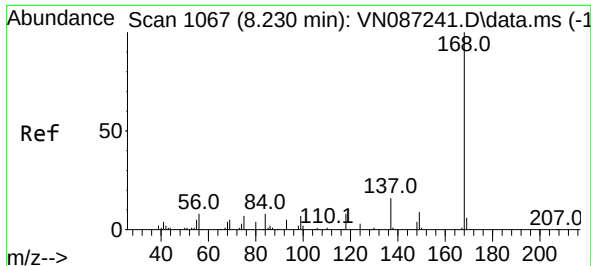
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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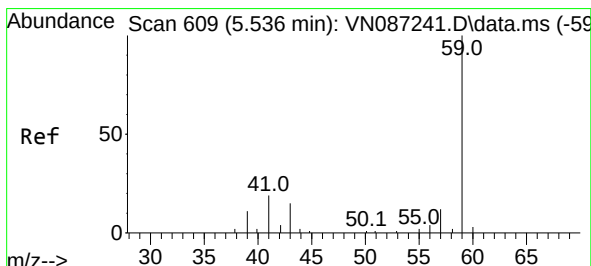
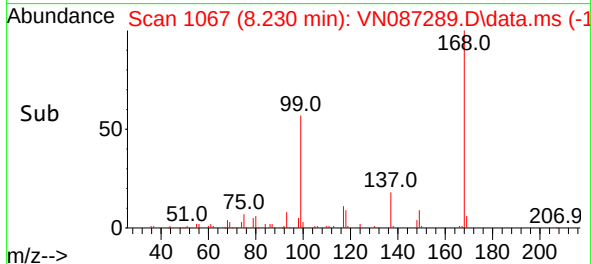
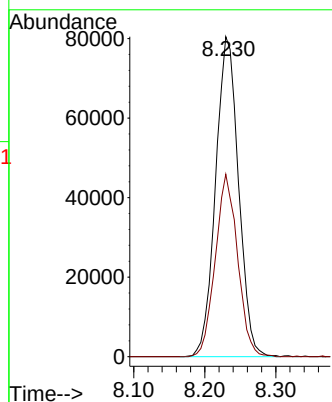
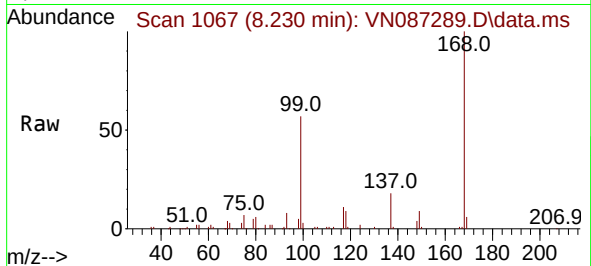




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

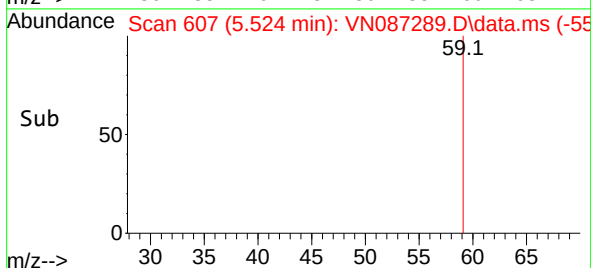
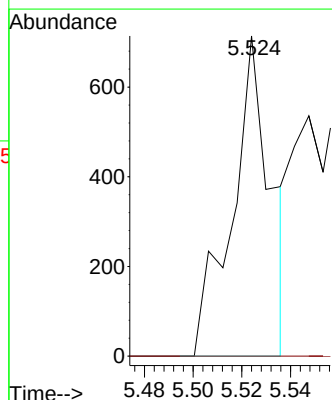
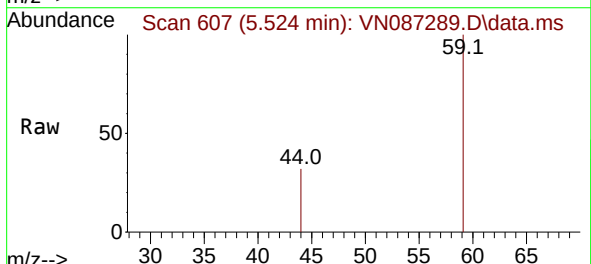
Instrument :
MSVOA_N
ClientSampleId :
G2(9)

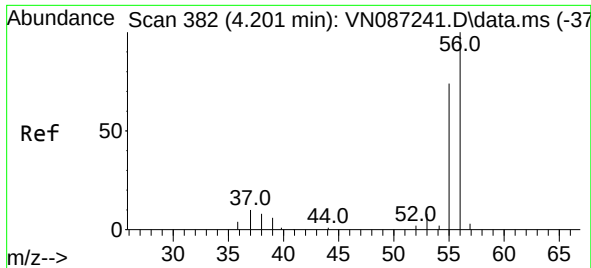
Tgt Ion:168 Resp: 180189
Ion Ratio Lower Upper
168 100
99 57.0 42.6 64.0



#11
Tert butyl alcohol
Concen: 1.917 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 59 Resp: 790
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

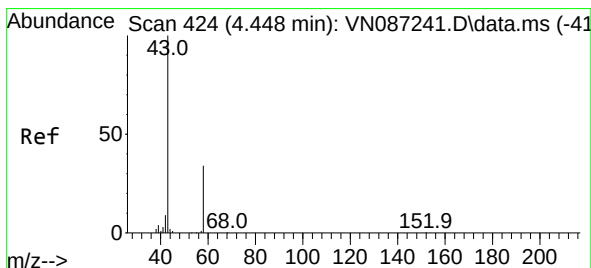
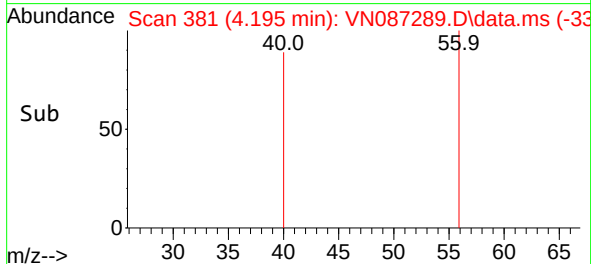
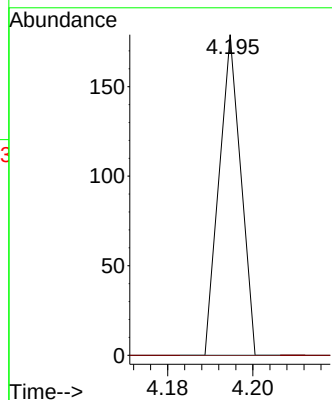
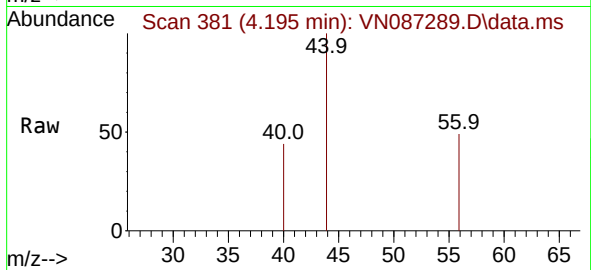




#13
Acrolein
Concen: 0.221 ug/l
RT: 4.195 min Scan# 381
Delta R.T. -0.006 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

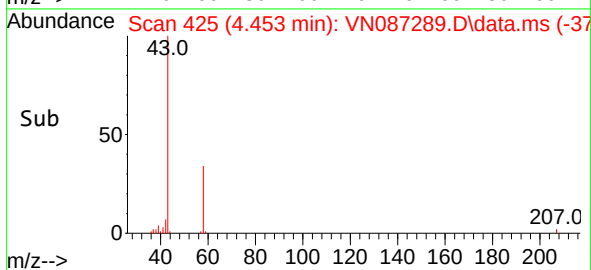
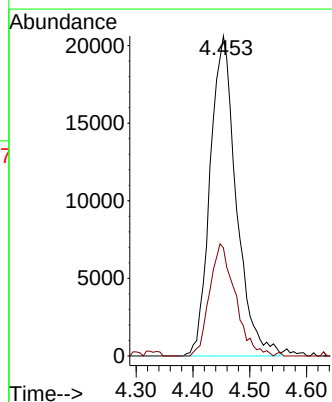
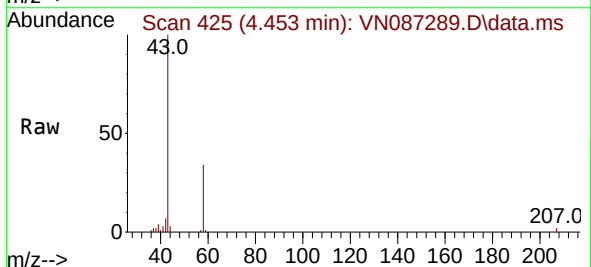
Instrument :
MSVOA_N
ClientSampleId :
G2(9)

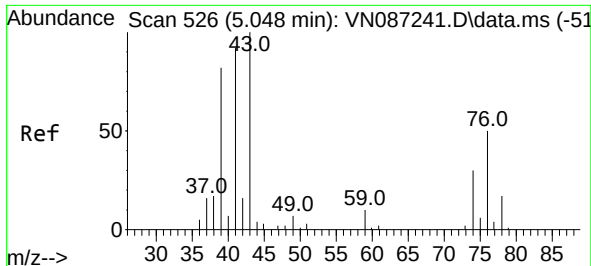
Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 58.6 88.0#



#16
Acetone
Concen: 76.276 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 43 Resp: 65948
Ion Ratio Lower Upper
43 100
58 33.8 27.1 40.7

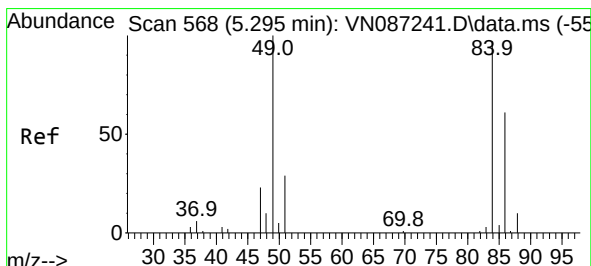
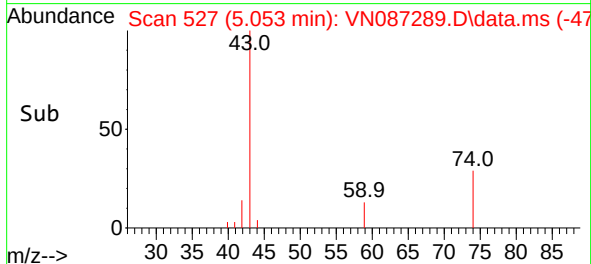
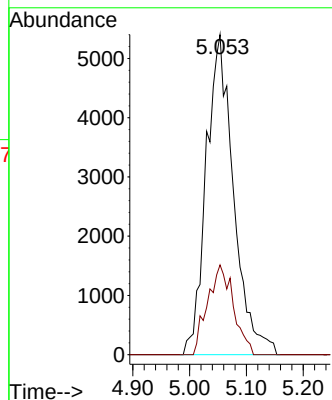
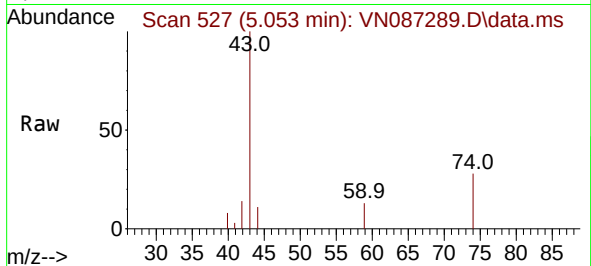




#18
Methyl Acetate
Concen: 9.138 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

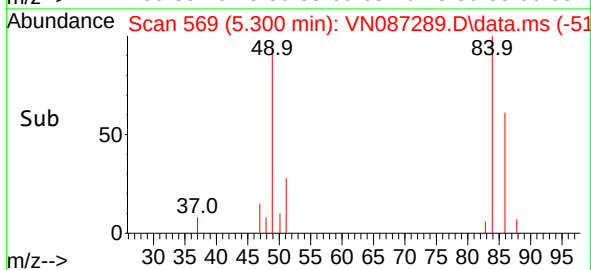
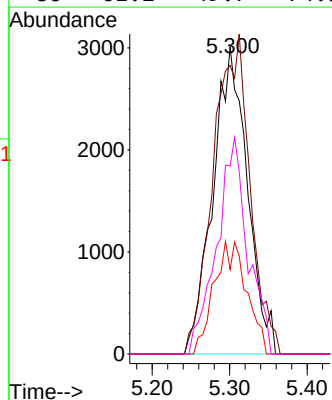
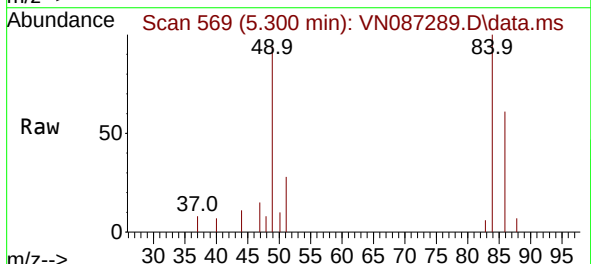
Instrument :
MSVOA_N
ClientSampleId :
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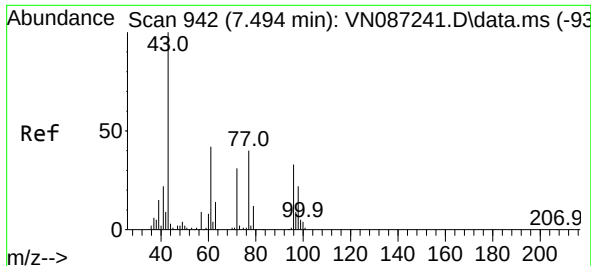
Tgt Ion: 43 Resp: 18086
Ion Ratio Lower Upper
43 100
74 26.4 23.8 35.6



#20
Methylene Chloride
Concen: 4.865 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 84 Resp: 9317
Ion Ratio Lower Upper
84 100
49 93.9 82.1 123.1
51 27.5 23.5 35.3
86 61.2 49.7 74.5

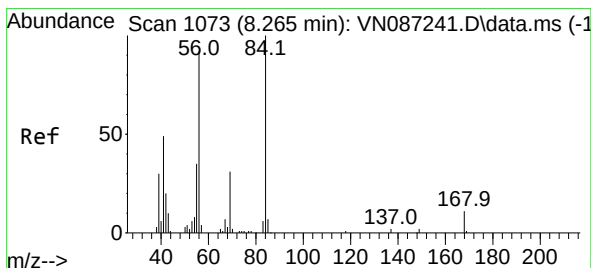
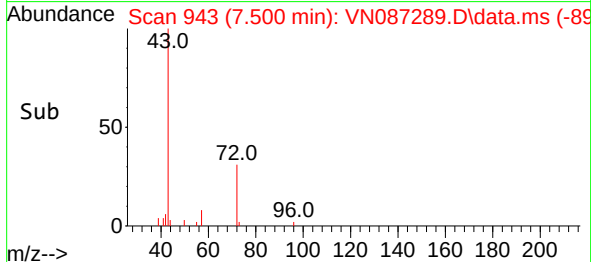
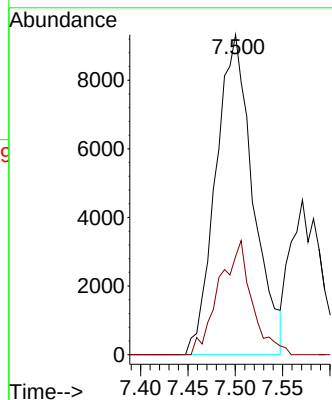
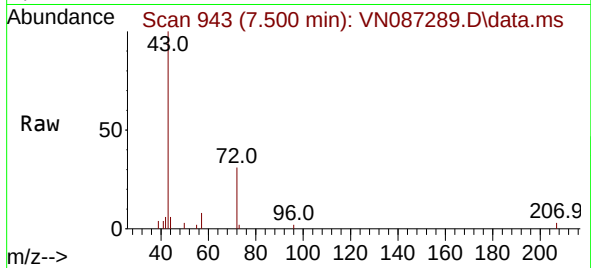




#25
2-Butanone
Concen: 18.916 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

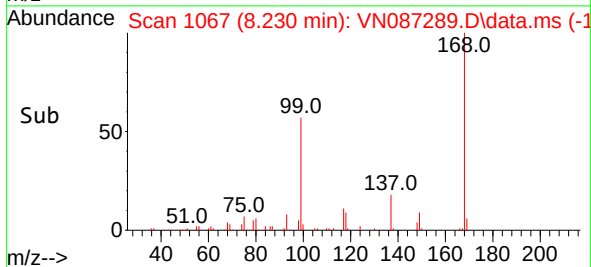
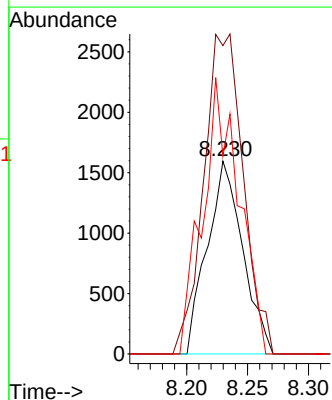
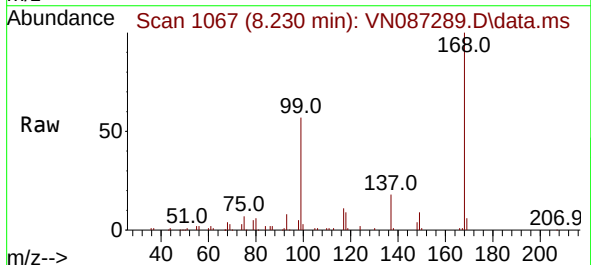
Instrument :
MSVOA_N
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G2(9)

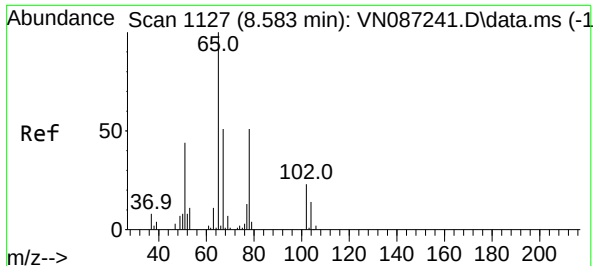
Tgt Ion: 43 Resp: 25559
Ion Ratio Lower Upper
43 100
72 30.7 24.8 37.2



#31
Cyclohexane
Concen: 1.053 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 56 Resp: 3243
Ion Ratio Lower Upper
56 100
69 160.0 27.0 40.6#
84 102.6 86.2 129.4

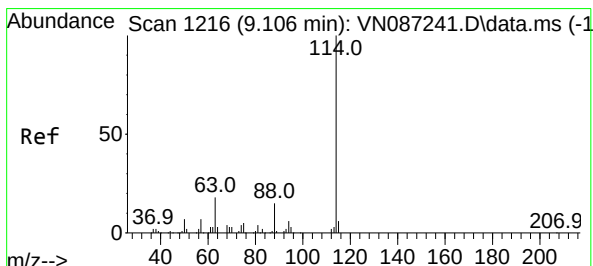
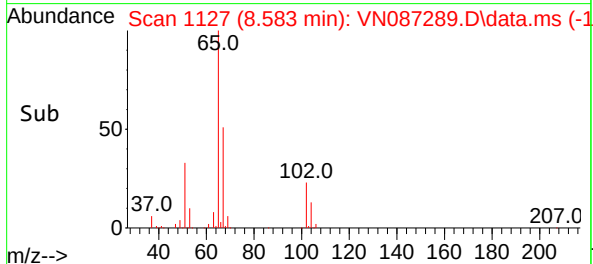
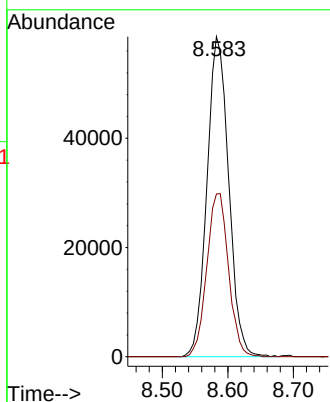
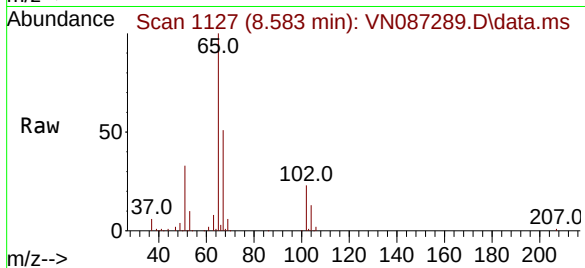




#33
1,2-Dichloroethane-d4
Concen: 59.548 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

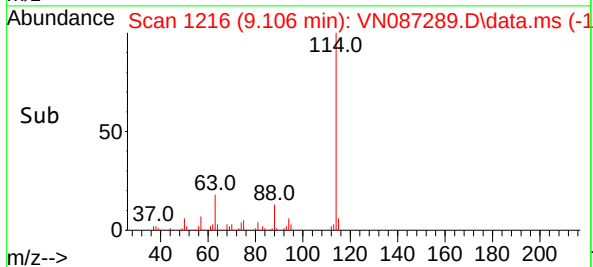
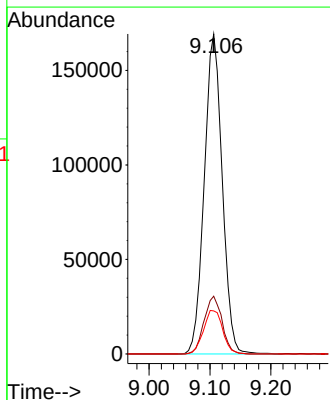
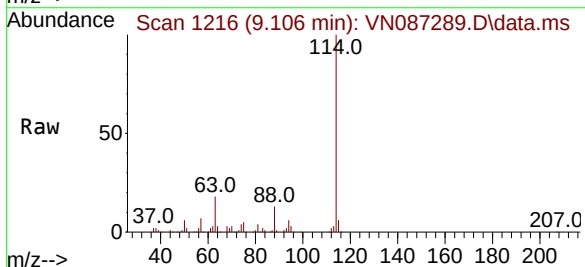
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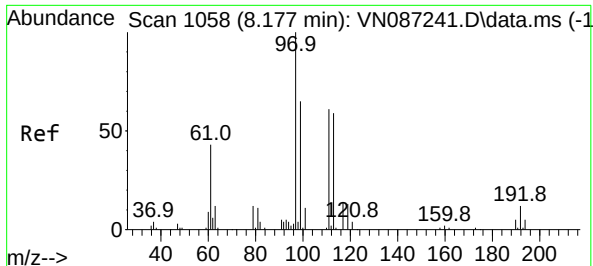
Tgt Ion: 65 Resp: 134667
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 114 Resp: 346519
Ion Ratio Lower Upper
114 100
63 18.1 0.0 36.6
88 13.5 0.0 29.6

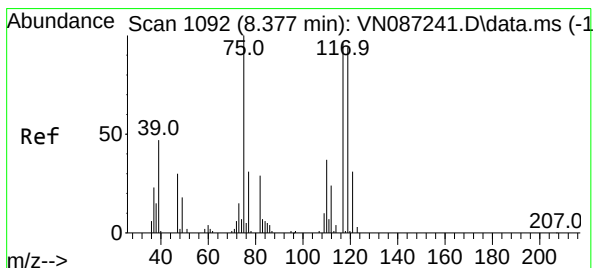
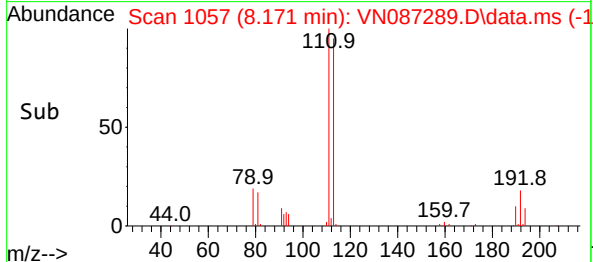
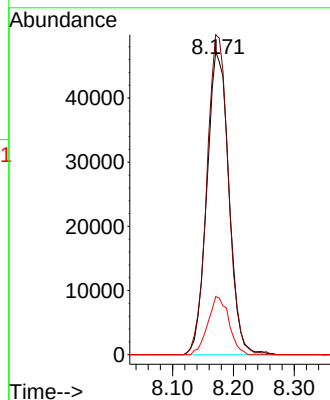
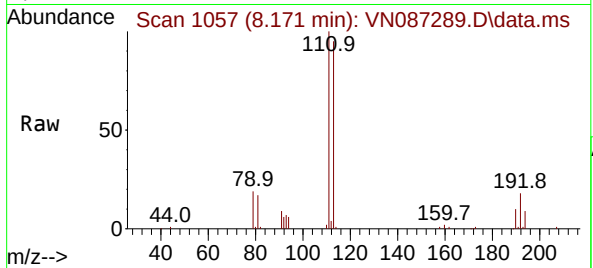




#35
Dibromofluoromethane
Concen: 53.401 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

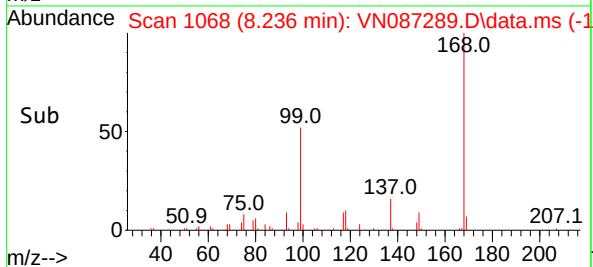
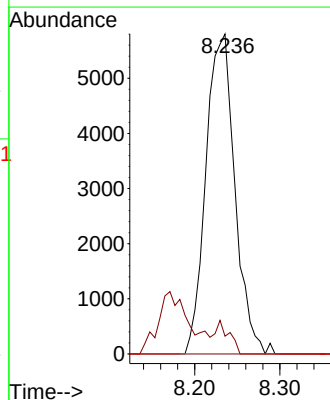
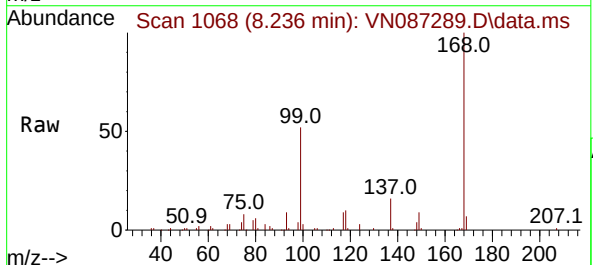
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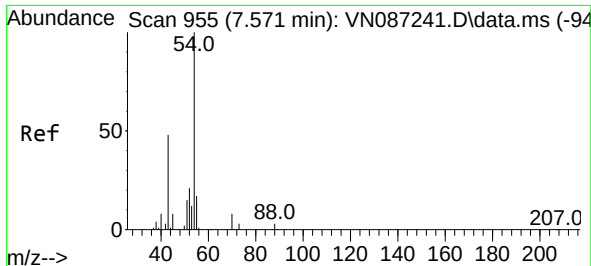
Tgt Ion:113 Resp: 118485
Ion Ratio Lower Upper
113 100
111 103.4 81.4 122.2
192 18.4 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.548 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 75 Resp: 13723
Ion Ratio Lower Upper
75 100
110 5.0 18.7 56.1#
77 0.0 24.5 36.7#

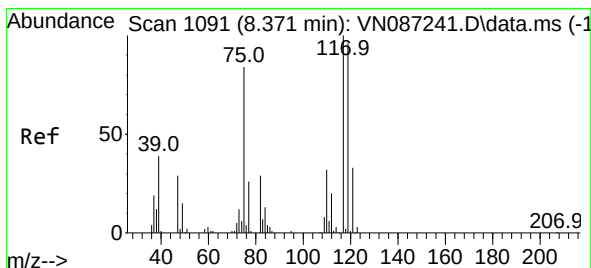
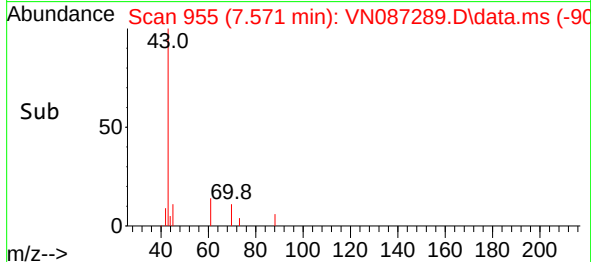
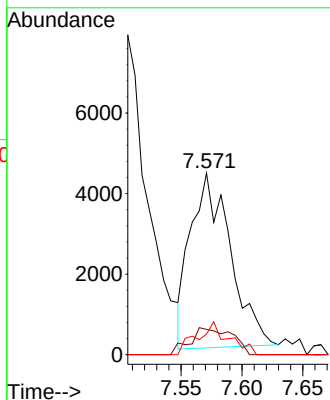
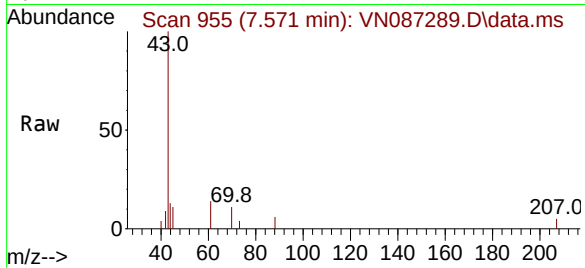




#37
Ethyl Acetate
Concen: 3.036 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

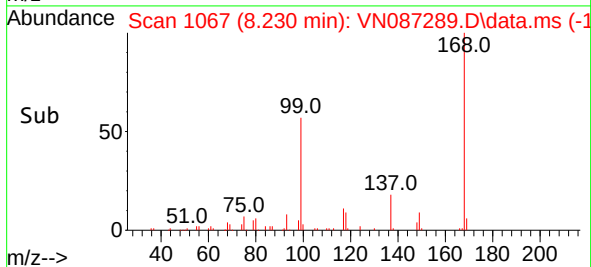
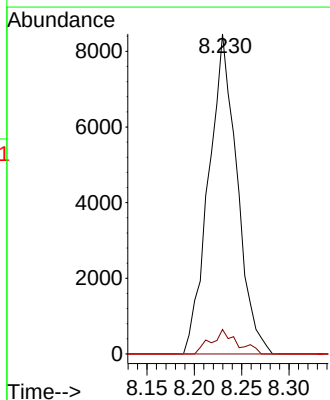
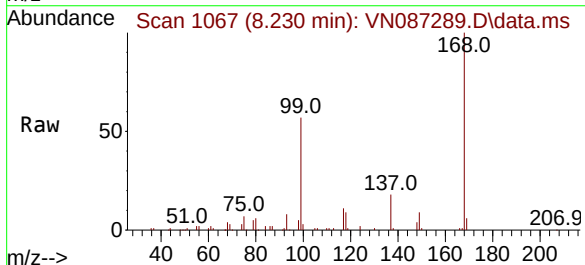
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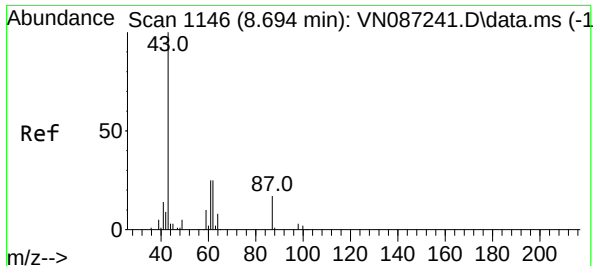
Tgt Ion: 43 Resp: 9847
Ion Ratio Lower Upper
43 100
61 16.3 11.3 16.9
70 15.0 9.9 14.9#



#38
Carbon Tetrachloride
Concen: 5.162 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 117 Resp: 17648
Ion Ratio Lower Upper
117 100
119 7.7 77.2 115.8#
121 0.0 26.6 39.8#

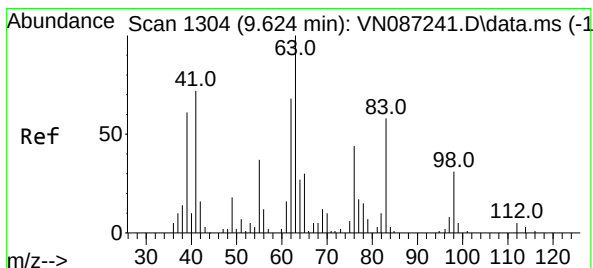
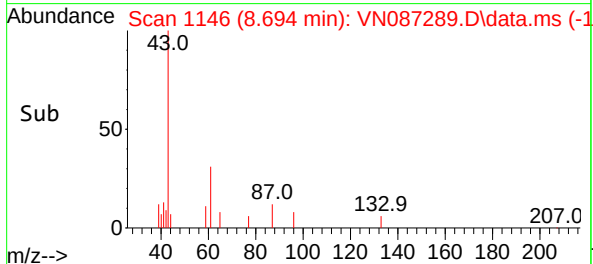
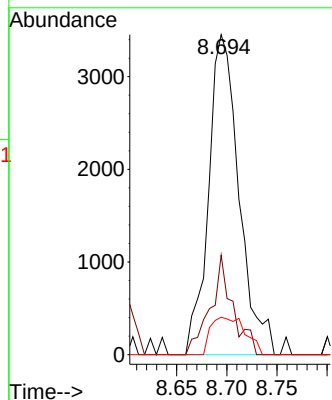
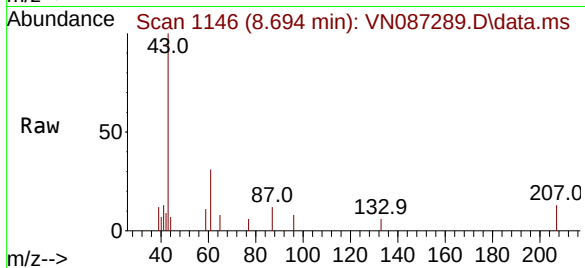




#43
Isopropyl Acetate
Concen: 1.453 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

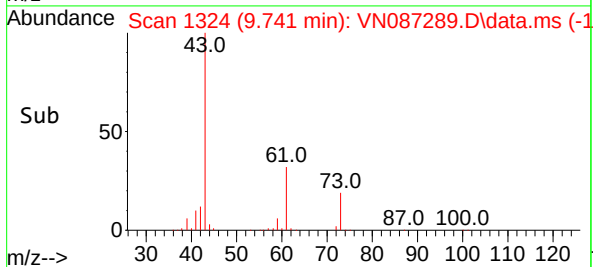
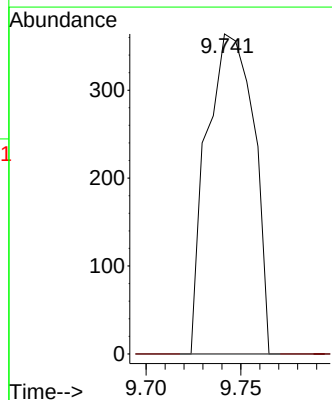
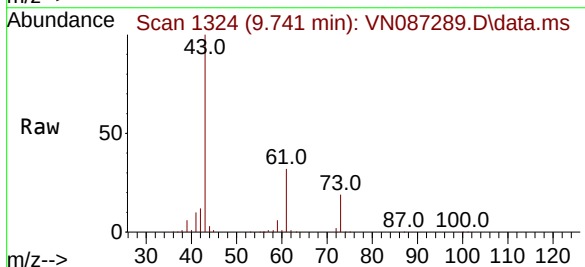
Instrument :
MSVOA_N
ClientSampleId :
G2(9)

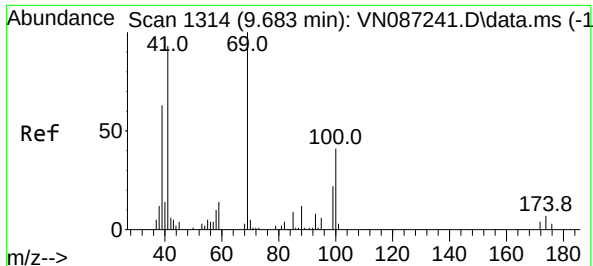
Tgt Ion:	43	Resp:	7311
Ion	Ratio	Lower	Upper
43	100		
61	22.9	22.4	33.6
87	13.3	12.8	19.2



#45
1,2-Dichloropropane
Concen: 0.308 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion:	63	Resp:	627
Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.8	35.8#





#48

Methyl methacrylate

Concen: 24.427 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN087289.D

Acq: 07 Jul 2025 13:05

Instrument :

MSVOA_N

ClientSampleId :

G2(9)

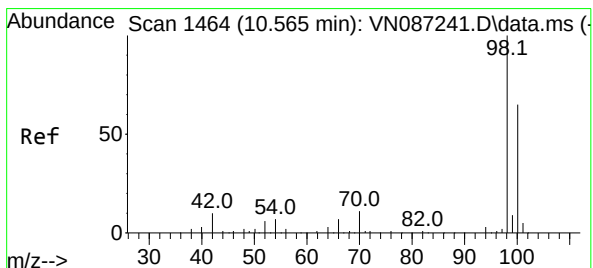
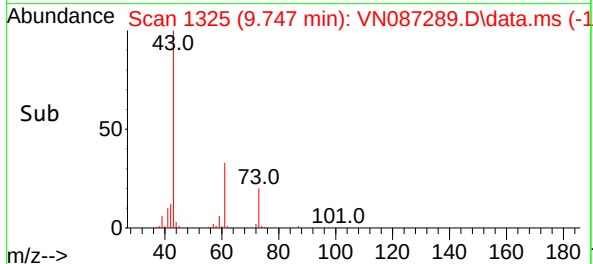
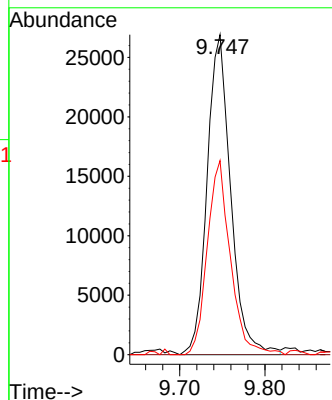
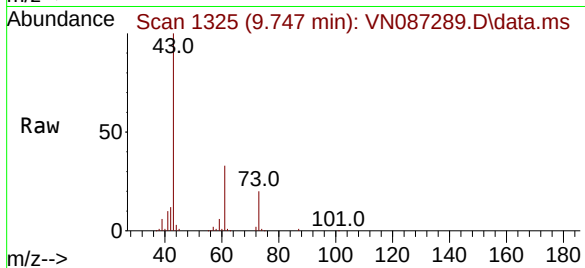
Tgt Ion: 41 Resp: 51786

Ion Ratio Lower Upper

41 100

69 0.0 81.4 122.2#

39 59.5 56.9 85.3



#50

Toluene-d8

Concen: 50.515 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN087289.D

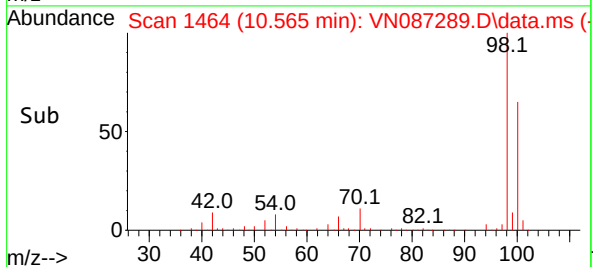
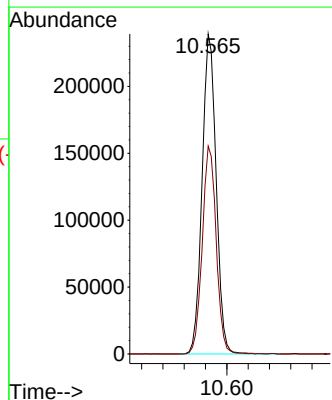
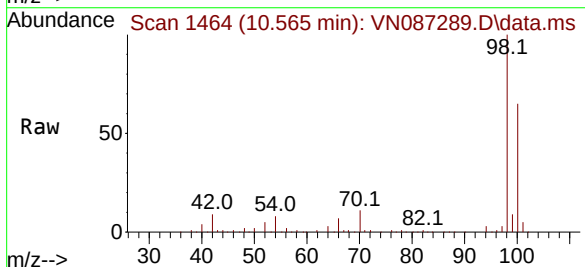
Acq: 07 Jul 2025 13:05

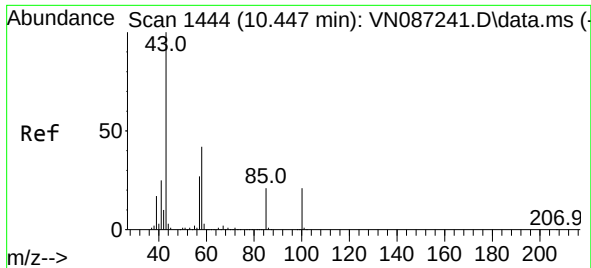
Tgt Ion: 98 Resp: 436873

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1

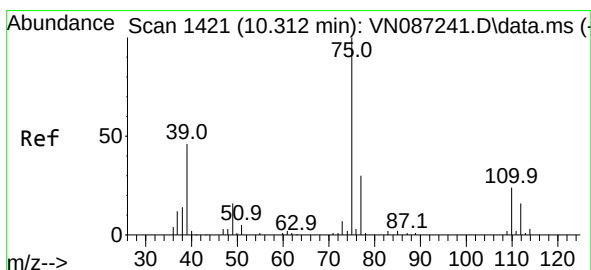
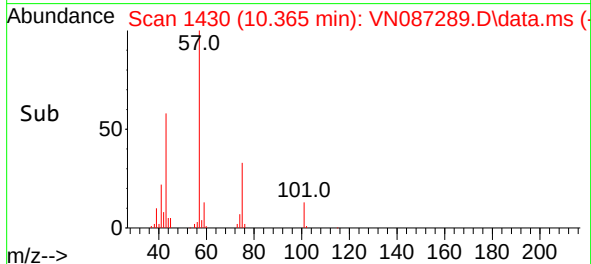
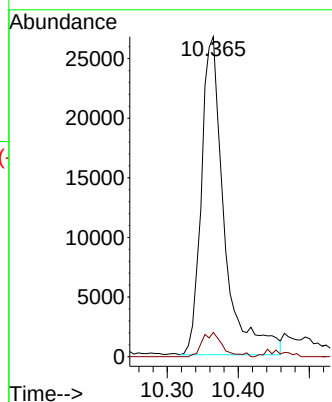
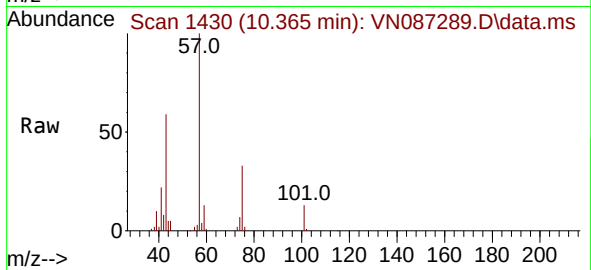




#51
4-Methyl-2-Pentanone
Concen: 19.446 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.082 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

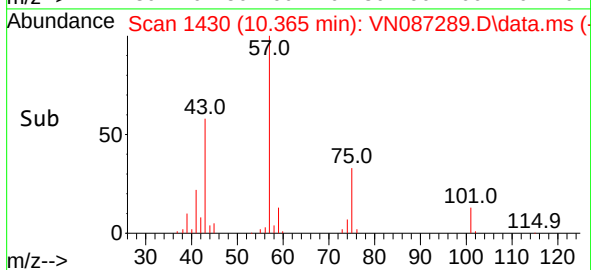
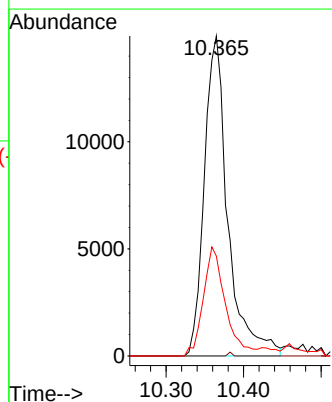
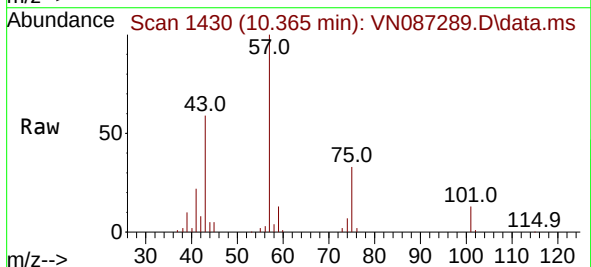
Instrument :
MSVOA_N
ClientSampleId :
G2(9)

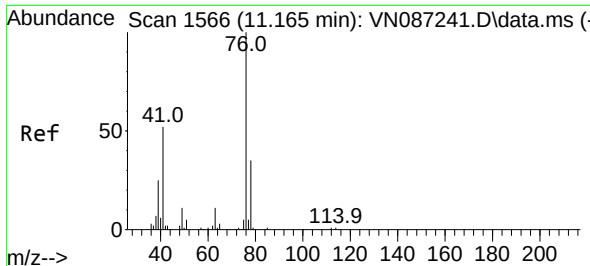
Tgt Ion: 43 Resp: 59849
Ion Ratio Lower Upper
43 100
58 6.8 34.2 51.2#



#54
cis-1,3-Dichloropropene
Concen: 8.704 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.053 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 75 Resp: 31452
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#
39 31.2 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 0.420 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN087289.D

Acq: 07 Jul 2025 13:05

Instrument :

MSVOA_N

ClientSampleId :

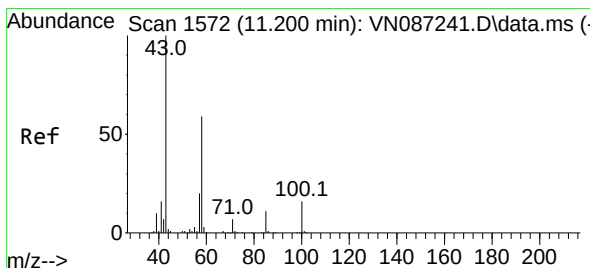
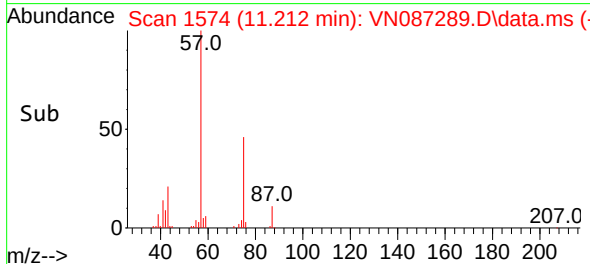
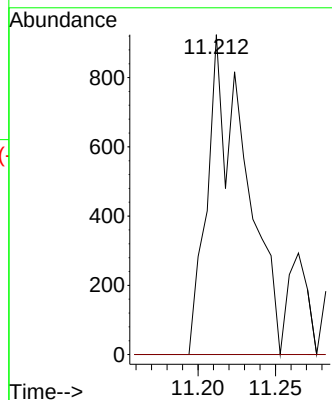
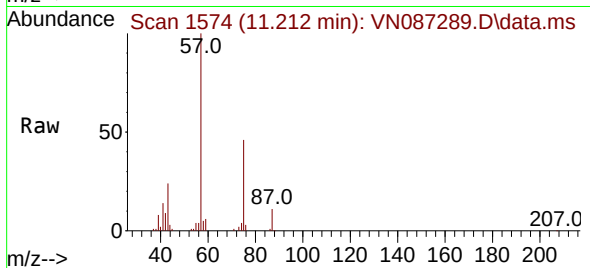
G2(9)

Tgt Ion: 76 Resp: 1588

Ion Ratio Lower Upper

76 100

78 0.0 27.1 40.7#



#59

2-Hexanone

Concen: 8.331 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087289.D

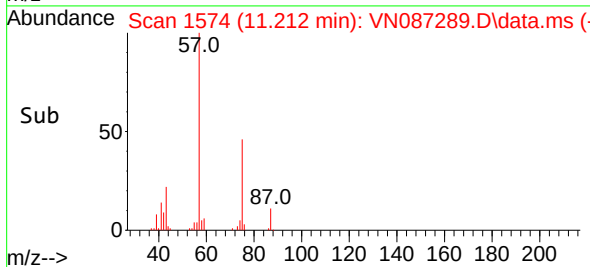
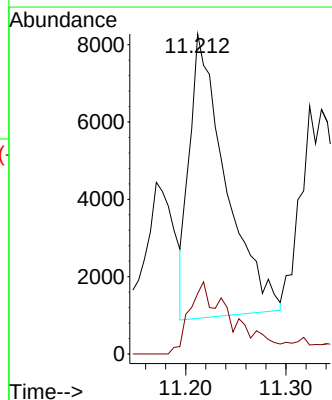
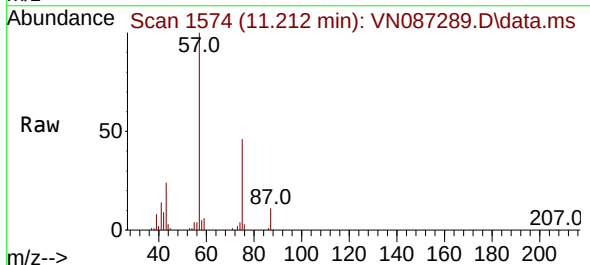
Acq: 07 Jul 2025 13:05

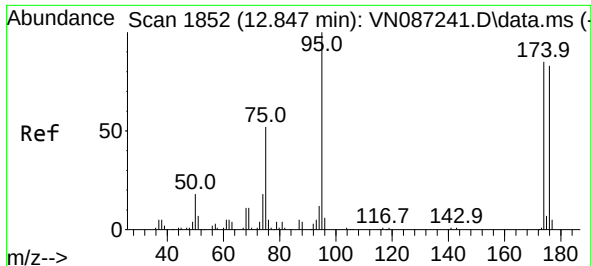
Tgt Ion: 43 Resp: 18366

Ion Ratio Lower Upper

43 100

58 30.2 31.1 93.3#

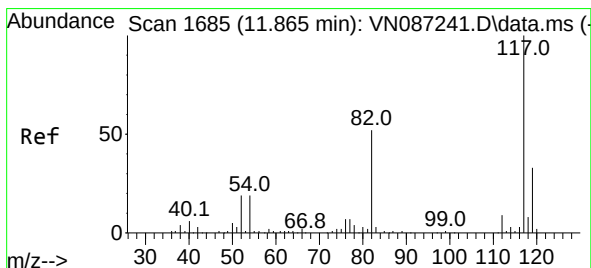
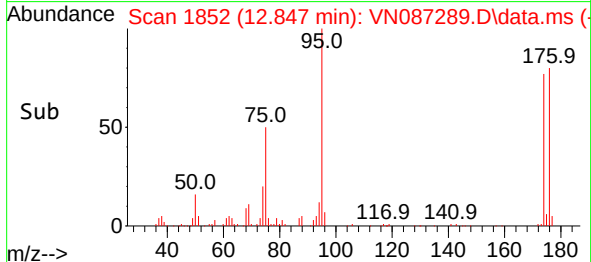
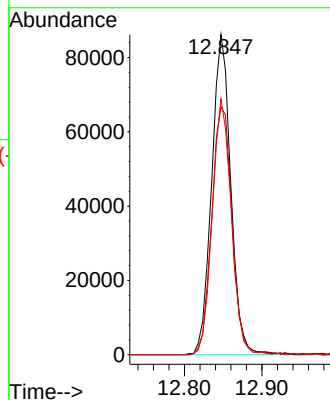
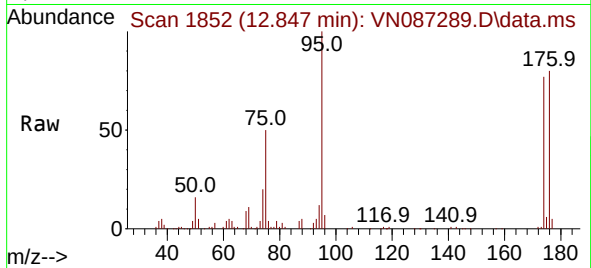




#62
4-Bromofluorobenzene
Concen: 47.905 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

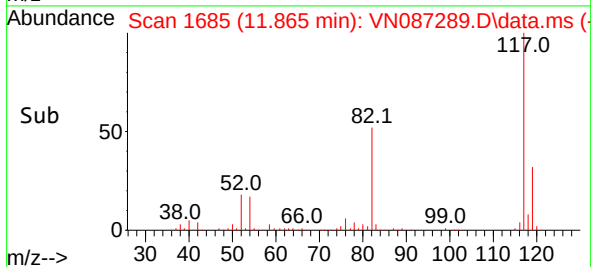
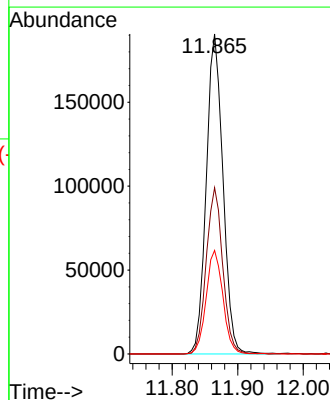
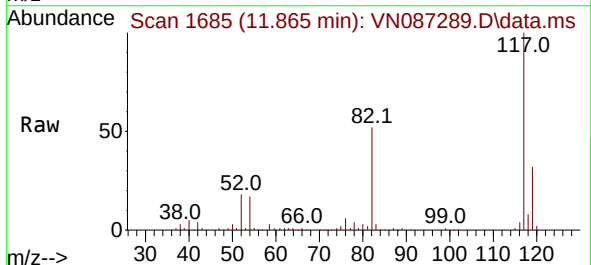
Instrument :
MSVOA_N
ClientSampleId :
G2(9)

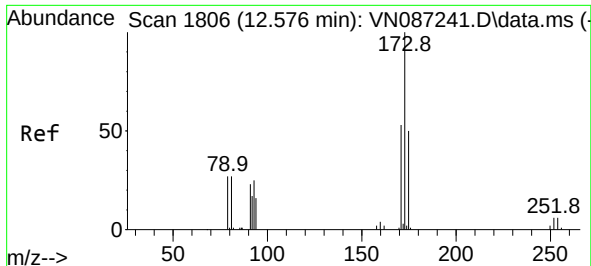
Tgt Ion: 95 Resp: 147410
Ion Ratio Lower Upper
95 100
174 82.7 0.0 169.6
176 79.6 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 117 Resp: 337646
Ion Ratio Lower Upper
117 100
82 52.0 41.9 62.9
119 32.4 26.2 39.4

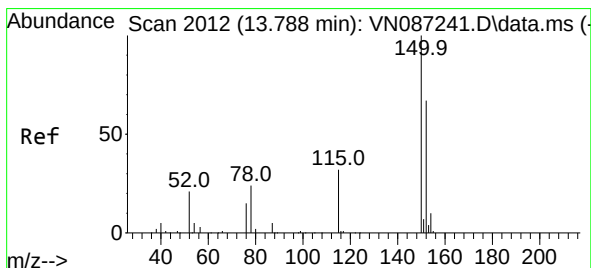
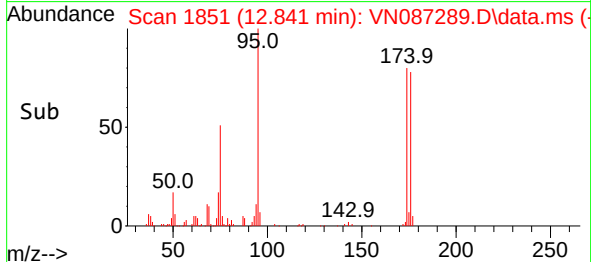
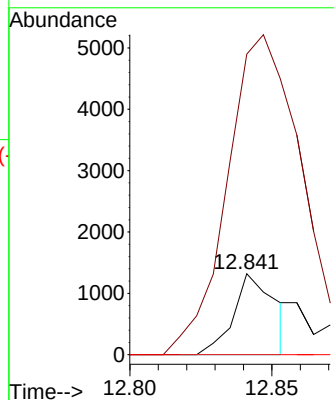
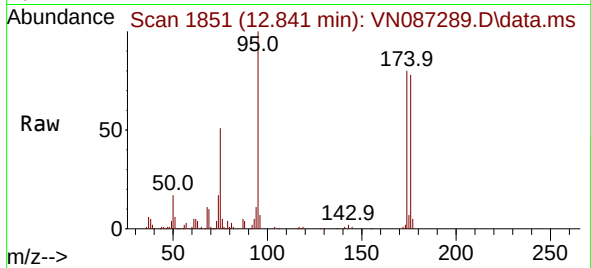




#71
Bromoform
Concen: 0.667 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

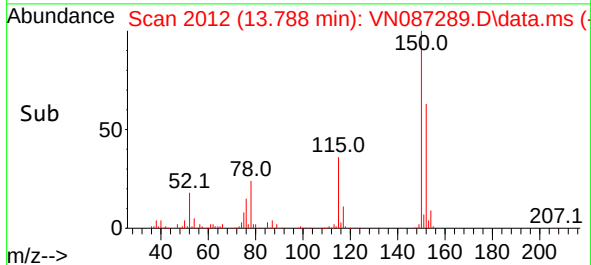
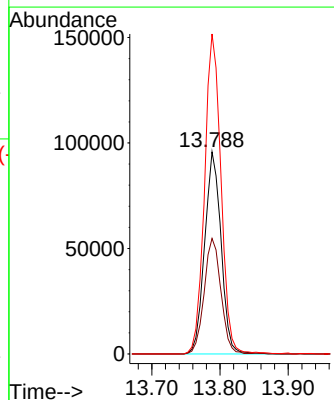
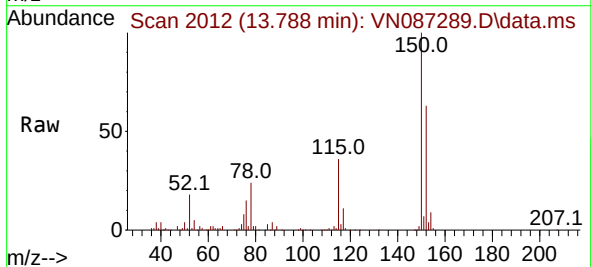
Instrument :
MSVOA_N
ClientSampleId :
G2(9)

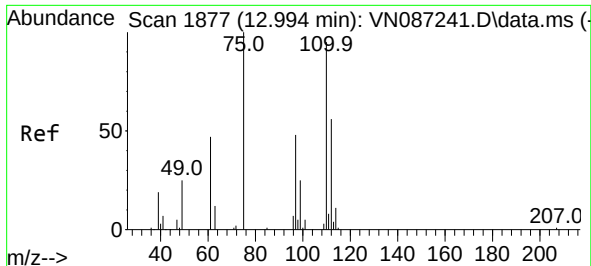
Tgt Ion:173 Resp: 1347
Ion Ratio Lower Upper
173 100
175 524.6 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion:152 Resp: 160324
Ion Ratio Lower Upper
152 100
115 58.3 28.3 84.9
150 158.4 0.0 344.6

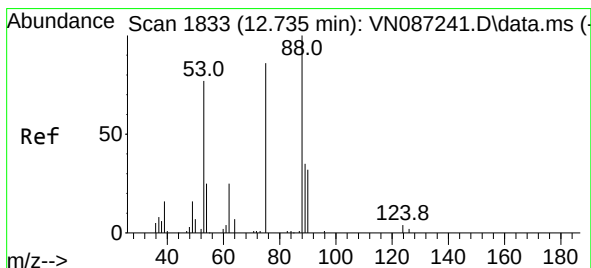
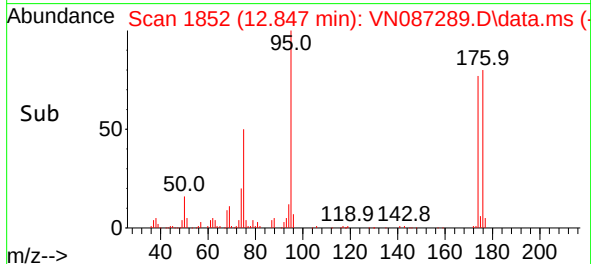
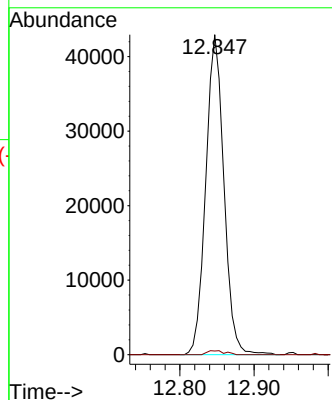
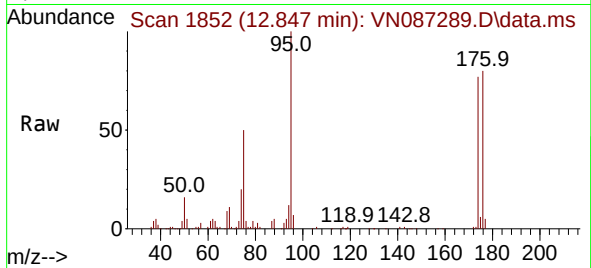




#76
1,2,3-Trichloropropane
Concen: 23.933 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Instrument :
MSVOA_N
ClientSampleId :
G2(9)

Tgt Ion: 75 Resp: 72982
Ion Ratio Lower Upper
75 100
77 1.2 82.0 245.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.215 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087289.D
Acq: 07 Jul 2025 13:05

Tgt Ion: 75 Resp: 72982
Ion Ratio Lower Upper
75 100
53 0.2 70.6 105.8#
89 0.0 36.1 54.1#

