

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087834.D
 Acq On : 15 Sep 2025 13:59
 Operator : JC\MD
 Sample : Q3092-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 291376

Quant Time: Sep 16 01:36:58 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	170547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	375163	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	377116	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	169450	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	177354	50.755	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.520%
35) Dibromofluoromethane	8.153	113	144073	53.190	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.380%
50) Toluene-d8	10.547	98	500185	49.337	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.829	95	170787	47.370	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.740%

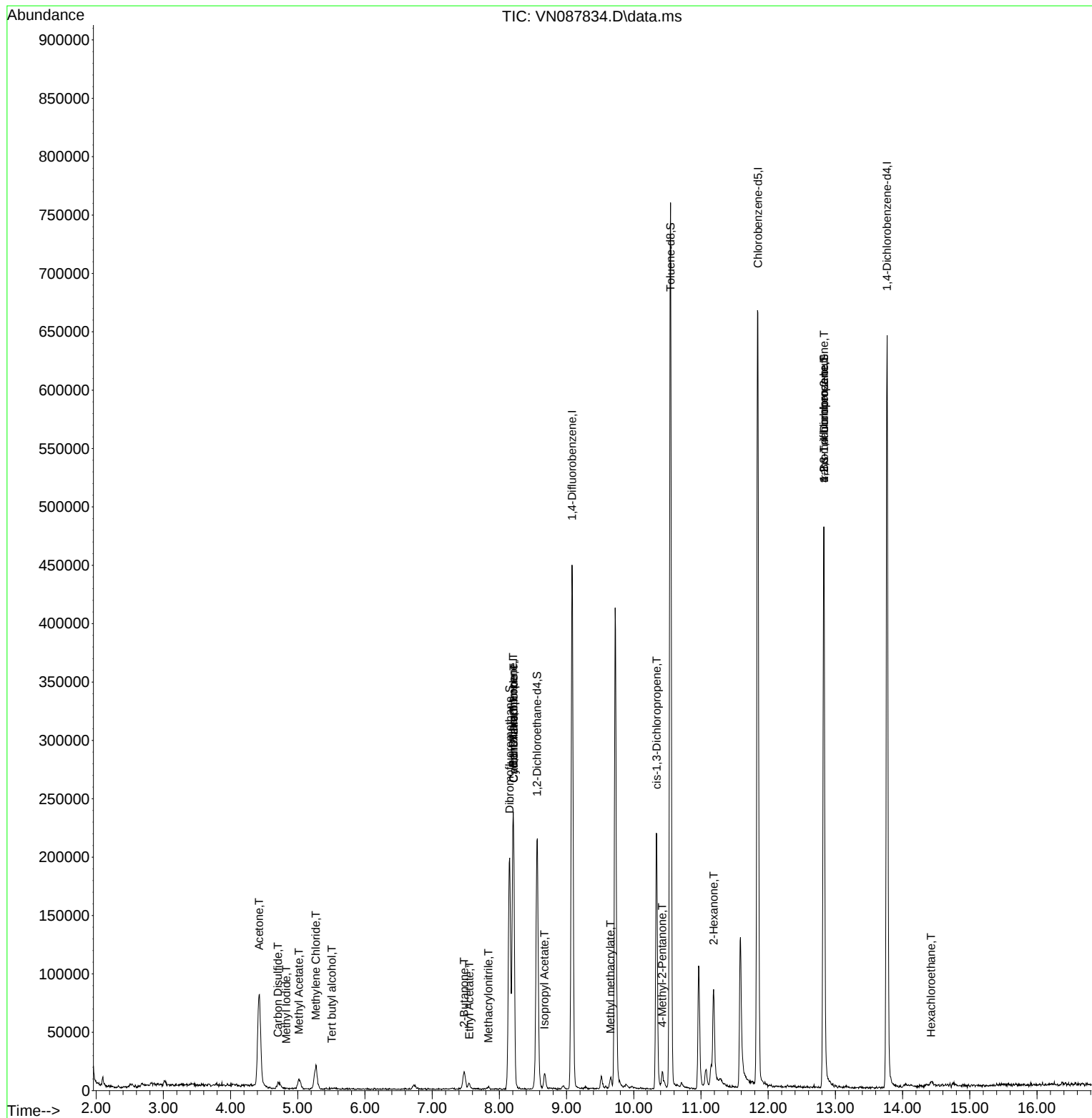
Target Compounds					Qvalue	
10) Methyl Iodide	4.830	142	131	6.874	ug/l #	38
11) Tert butyl alcohol	5.506	59	230	0.379	ug/l #	52
16) Acetone	4.424	43	166517	87.540	ug/l	97
17) Carbon Disulfide	4.706	76	1971	0.291	ug/l #	74
18) Methyl Acetate	5.018	43	17769	4.461	ug/l	100
20) Methylene Chloride	5.271	84	15134	4.368	ug/l #	92
25) 2-Butanone	7.477	43	25408	10.153	ug/l	97
31) Cyclohexane	8.212	56	5124	1.166	ug/l #	28
36) 1,1-Dichloropropene	8.206	75	16450	3.959	ug/l #	52
37) Ethyl Acetate	7.553	43	7437	1.310	ug/l #	87
38) Carbon Tetrachloride	8.212	117	18862	4.597	ug/l #	18
41) Methacrylonitrile	7.835	41	692	0.235	ug/l #	46
43) Isopropyl Acetate	8.671	43	14751	1.664	ug/l #	80
48) Methyl methacrylate	9.653	41	1508	0.360	ug/l #	13
51) 4-Methyl-2-Pentanone	10.424	43	8959	1.675	ug/l	91
54) cis-1,3-Dichloropropene	10.341	75	38935	7.394	ug/l #	60
59) 2-Hexanone	11.188	43	15445	4.569	ug/l #	60
76) 1,2,3-Trichloropropane	12.829	75	94445	23.768	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	94445	62.922	ug/l #	1
90) Hexachloroethane	14.423	117	1367	0.605	ug/l #	22

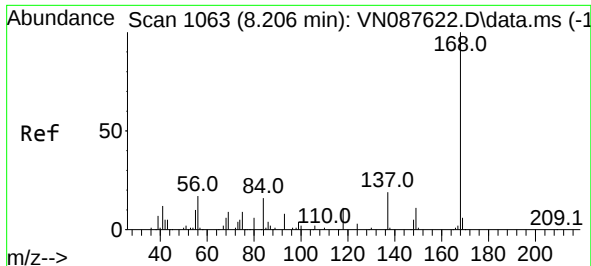
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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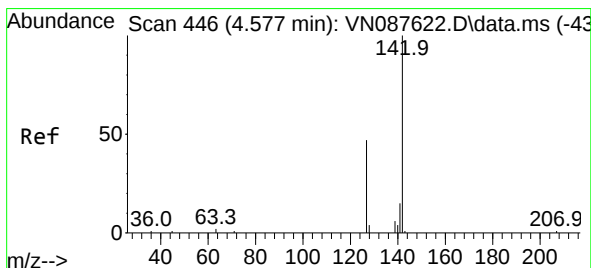
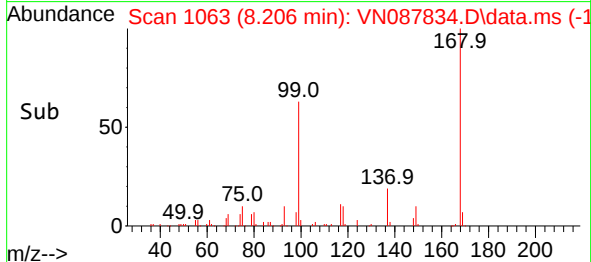
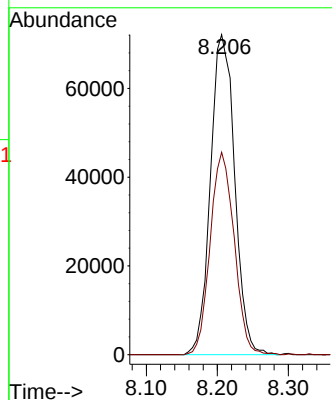
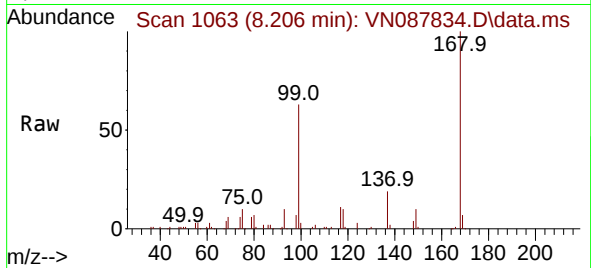




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

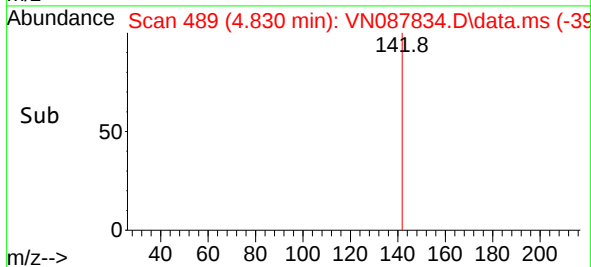
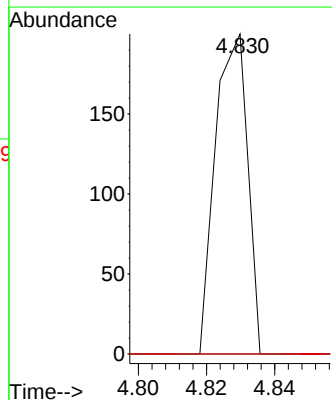
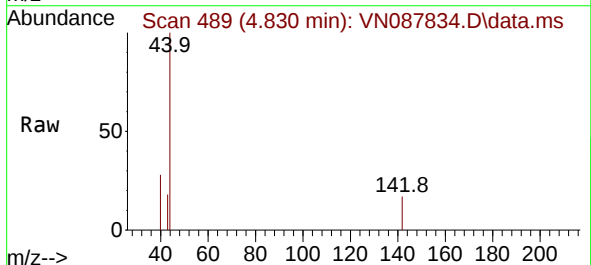
Instrument :
MSVOA_N
ClientSampleId :
291376

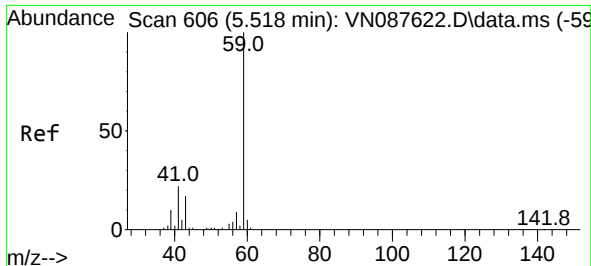
Tgt Ion:168 Resp: 170547
Ion Ratio Lower Upper
168 100
99 63.2 57.2 85.8



#10
Methyl Iodide
Concen: 6.874 ug/l
RT: 4.830 min Scan# 489
Delta R.T. 0.253 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion:142 Resp: 131
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

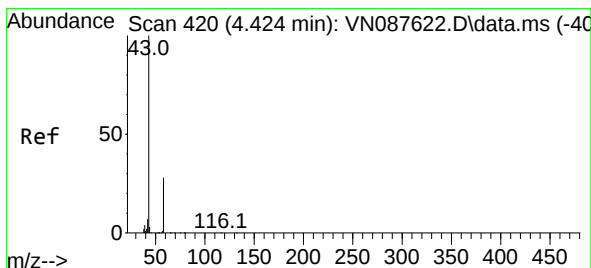
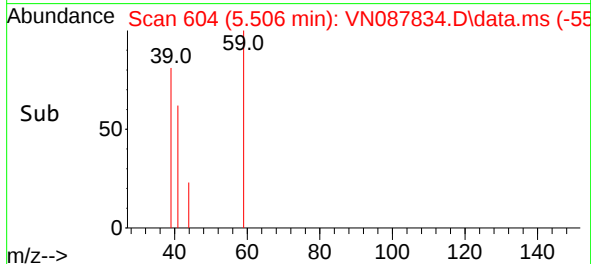
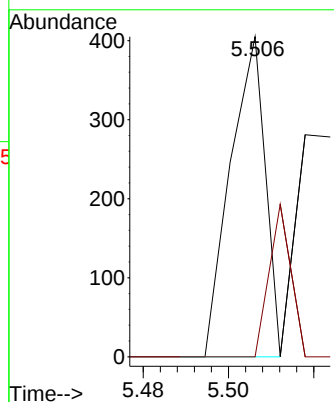
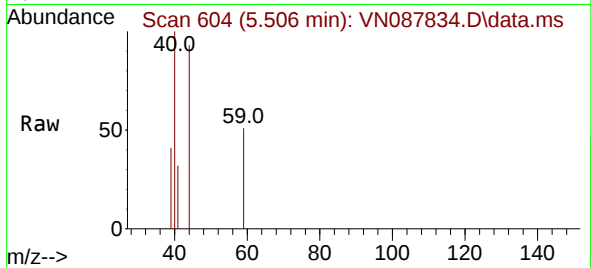




#11
Tert butyl alcohol
Concen: 0.379 ug/l
RT: 5.506 min Scan# 606
Delta R.T. -0.012 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

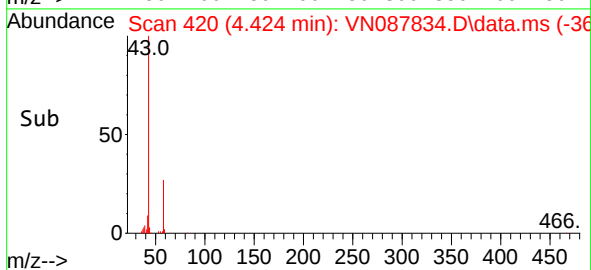
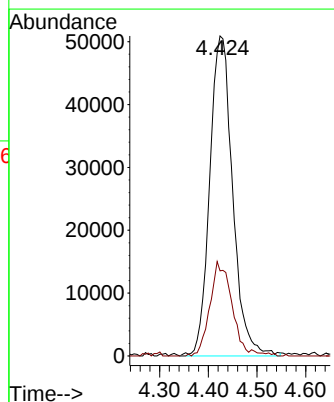
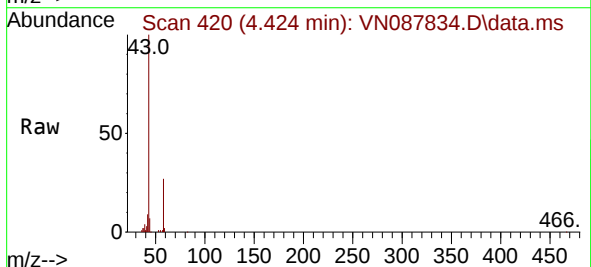
Instrument :
MSVOA_N
ClientSampleId :
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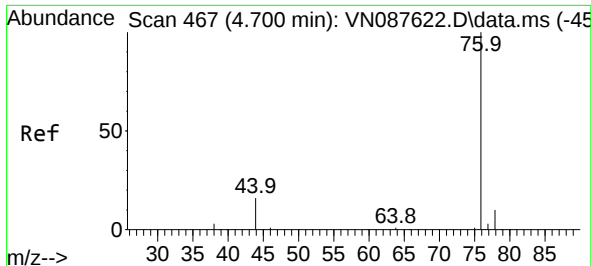
Tgt Ion: 59 Resp: 230
Ion Ratio Lower Upper
59 100
57 29.6 9.0 13.4#



#16
Acetone
Concen: 87.540 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 43 Resp: 166517
Ion Ratio Lower Upper
43 100
58 26.6 22.6 33.8

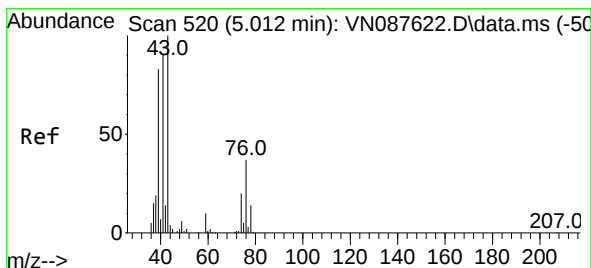
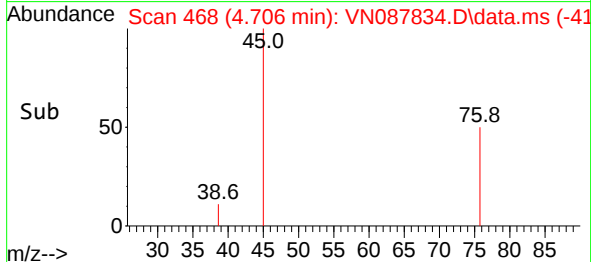
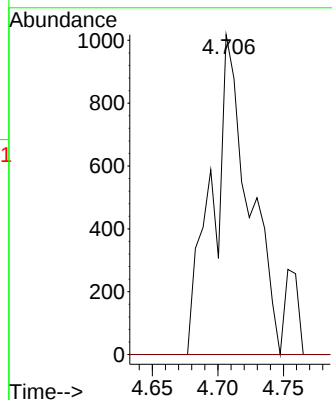
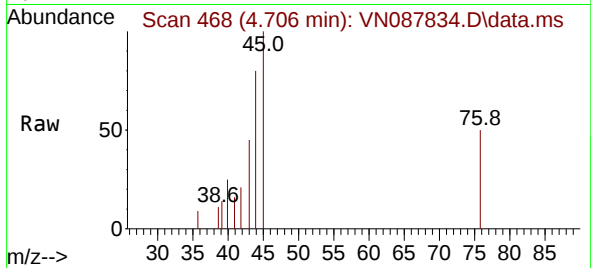




#17
Carbon Disulfide
Concen: 0.291 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

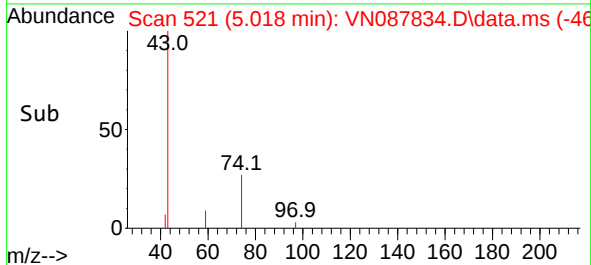
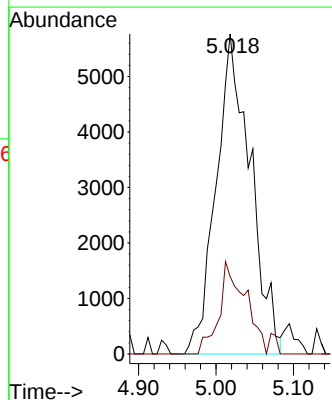
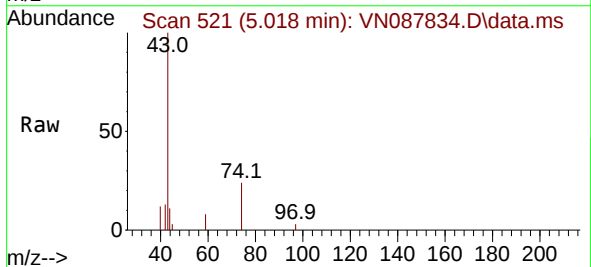
Instrument :
MSVOA_N
ClientSampleId :
291376

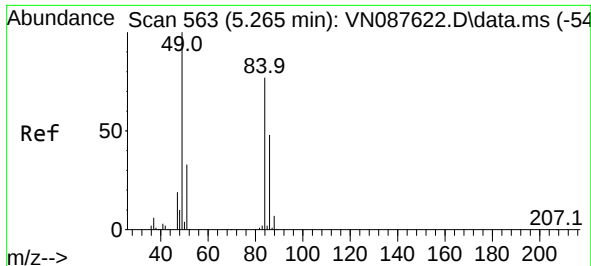
Tgt Ion: 76 Resp: 1971
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 4.461 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 43 Resp: 17769
Ion Ratio Lower Upper
43 100
74 22.2 17.6 26.4

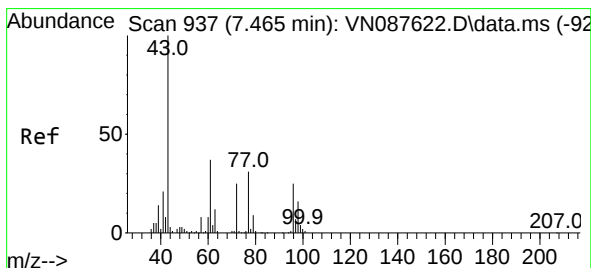
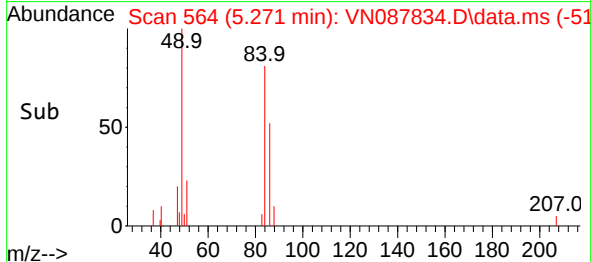
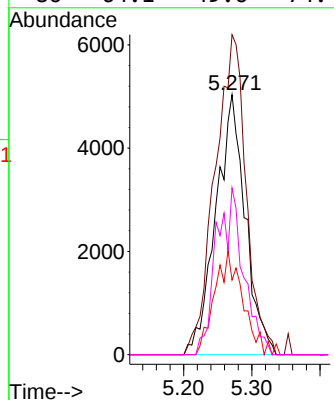
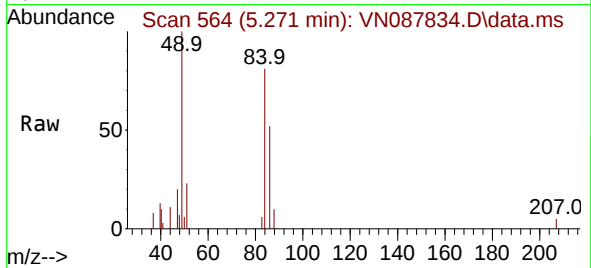




#20
Methylene Chloride
Concen: 4.368 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

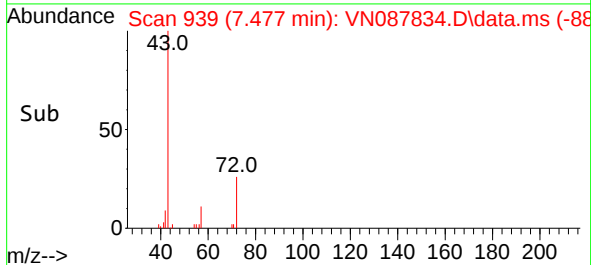
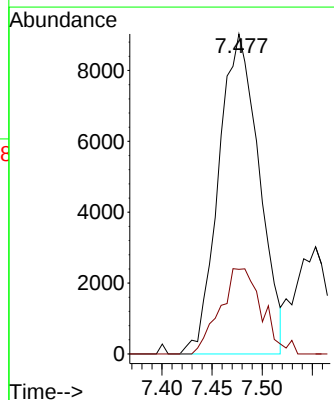
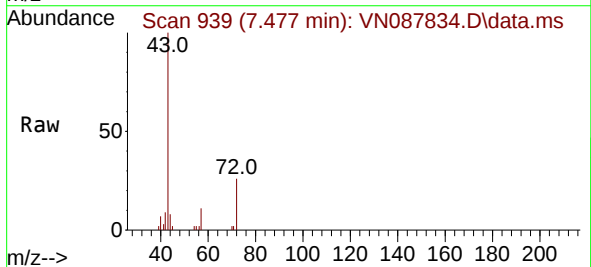
Instrument :
MSVOA_N
ClientSampleId :
291376

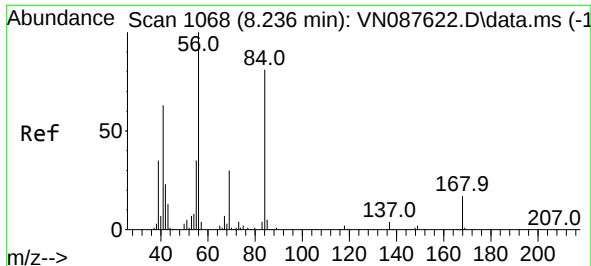
Tgt Ion:	84	Resp:	15134
Ion	Ratio	Lower	Upper
84	100		
49	123.1	103.4	155.2
51	28.7	33.8	50.8#
86	64.1	49.6	74.4



#25
2-Butanone
Concen: 10.153 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion:	43	Resp:	25408
Ion	Ratio	Lower	Upper
43	100		
72	26.5	19.9	29.9

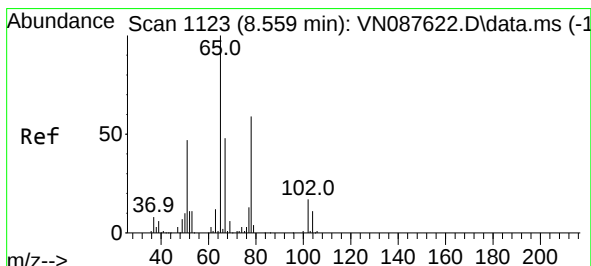
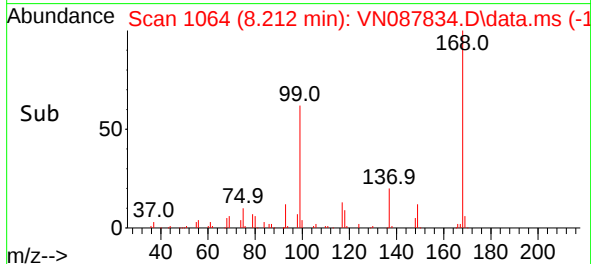
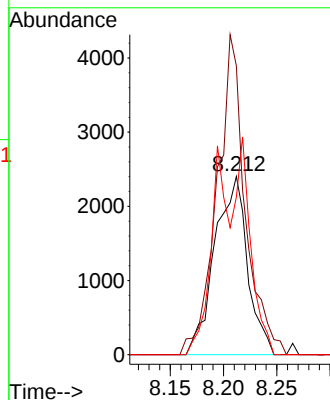
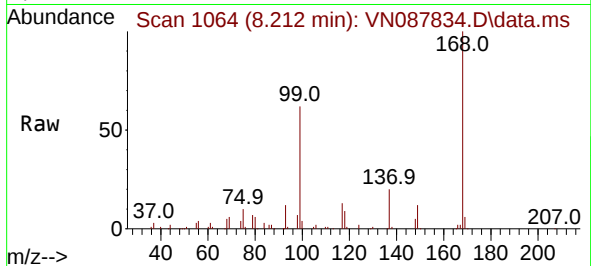




#31
Cyclohexane
Concen: 1.166 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

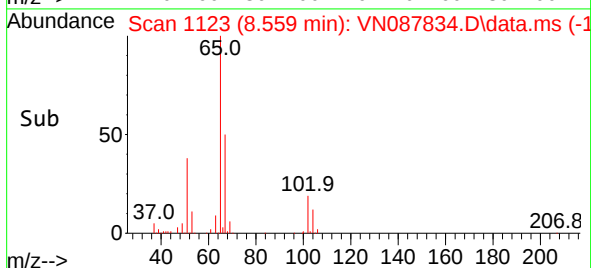
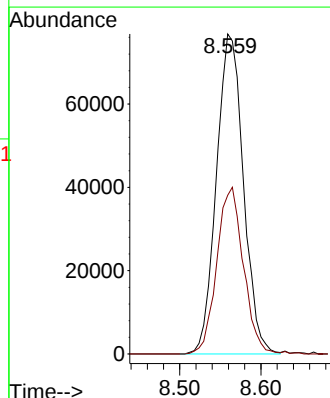
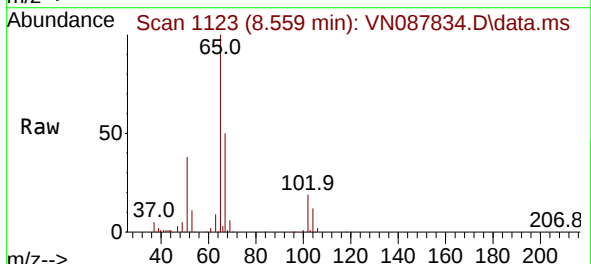
Instrument :
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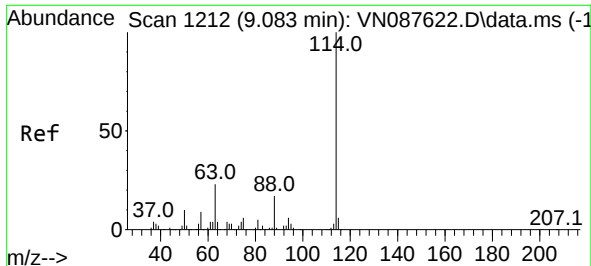
Tgt Ion: 56 Resp: 5124
Ion Ratio Lower Upper
56 100
69 161.9 23.7 35.5#
84 88.4 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 50.755 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 65 Resp: 177354
Ion Ratio Lower Upper
65 100
67 51.3 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087834.D

Acq: 15 Sep 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

291376

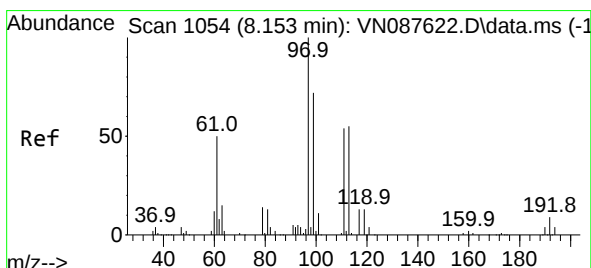
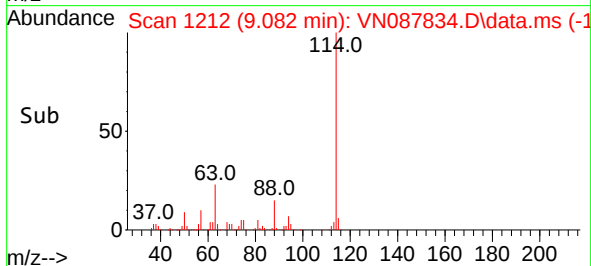
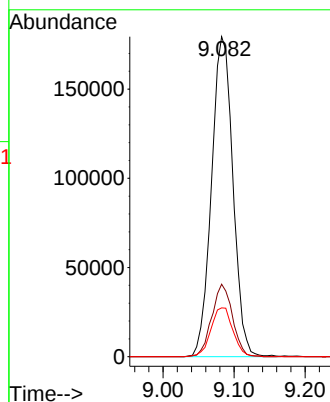
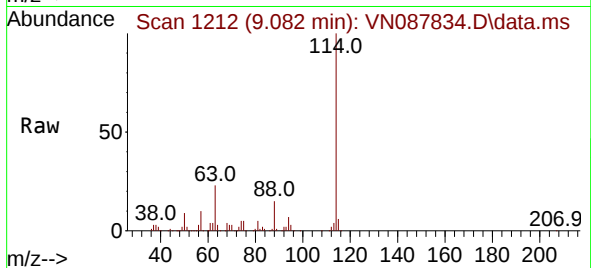
Tgt Ion:114 Resp: 375163

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.2

88 15.3 0.0 33.4



#35

Dibromofluoromethane

Concen: 53.190 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087834.D

Acq: 15 Sep 2025 13:59

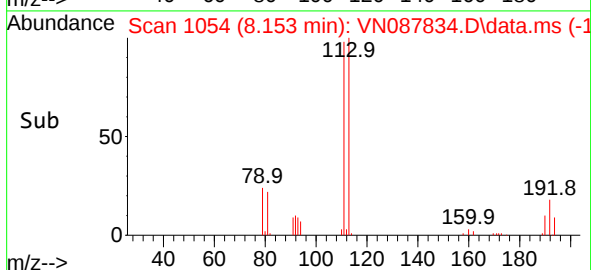
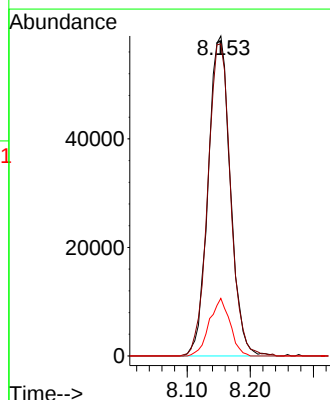
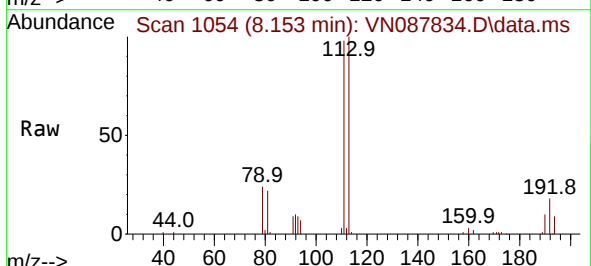
Tgt Ion:113 Resp: 144073

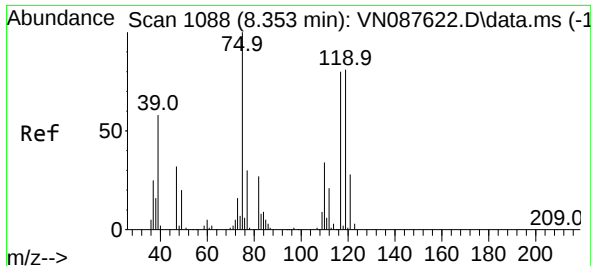
Ion Ratio Lower Upper

113 100

111 99.4 82.8 124.2

192 16.8 12.8 19.2

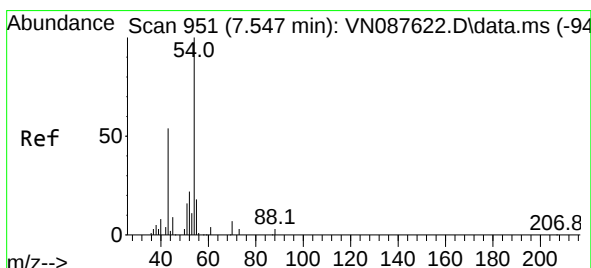
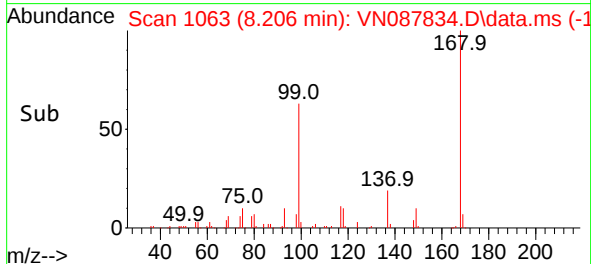
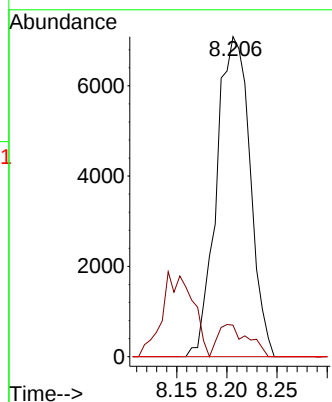
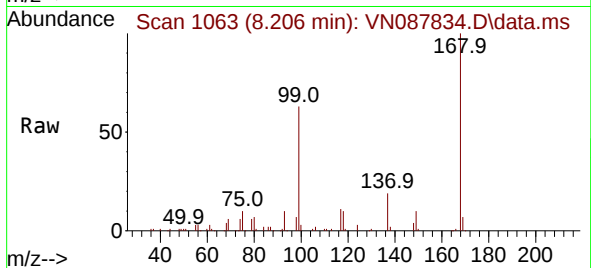




#36
1,1-Dichloropropene
Concen: 3.959 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

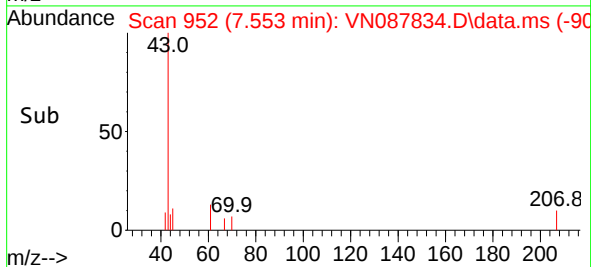
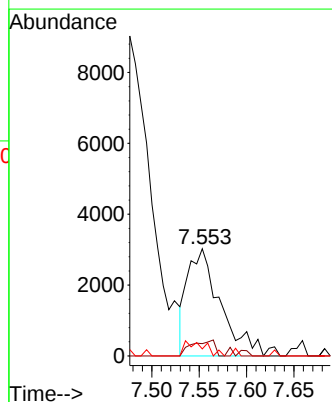
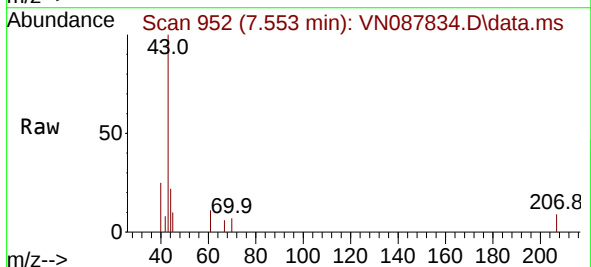
Instrument :
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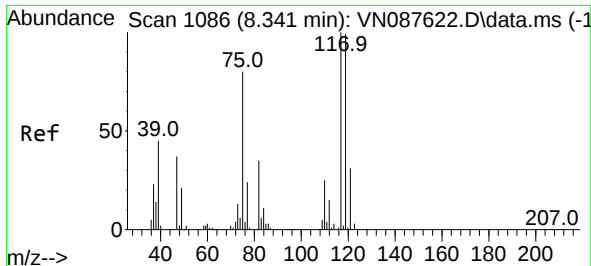
Tgt Ion: 75 Resp: 16450
Ion Ratio Lower Upper
75 100
110 9.0 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.310 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

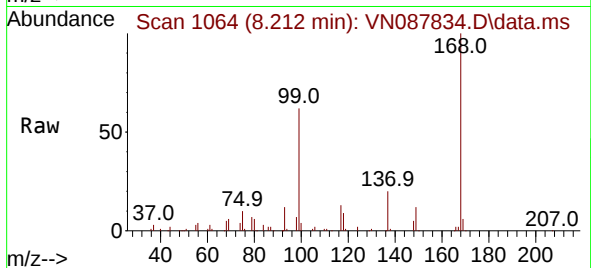
Tgt Ion: 43 Resp: 7437
Ion Ratio Lower Upper
43 100
61 10.1 9.3 13.9
70 0.0 7.0 10.6#



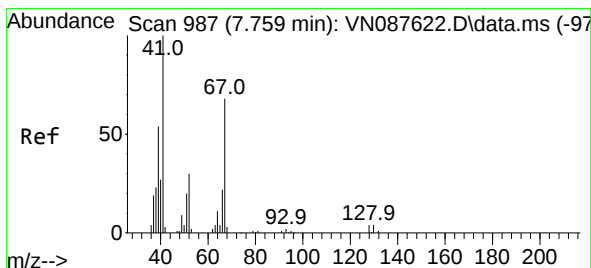
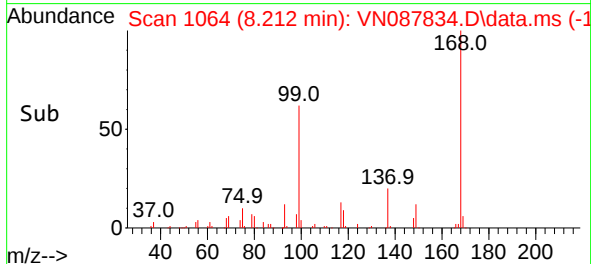
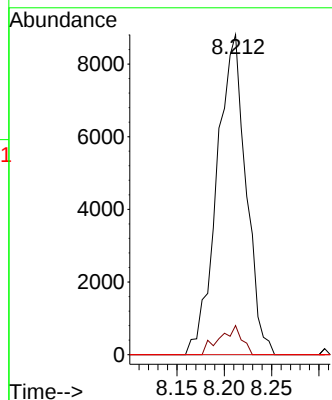


#38
Carbon Tetrachloride
Concen: 4.597 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Instrument :
MSVOA_N
ClientSampleId :
291376

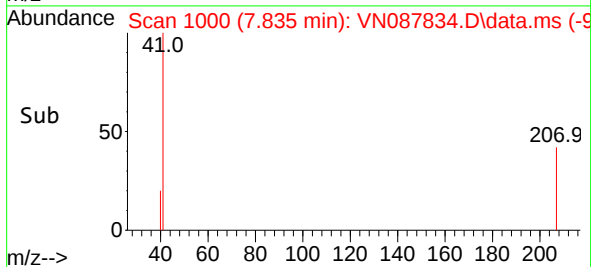
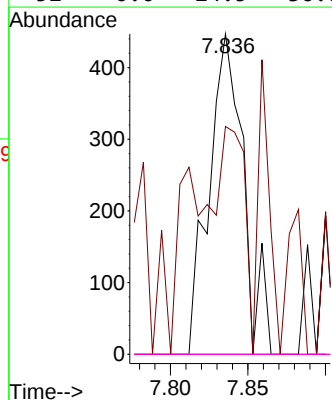
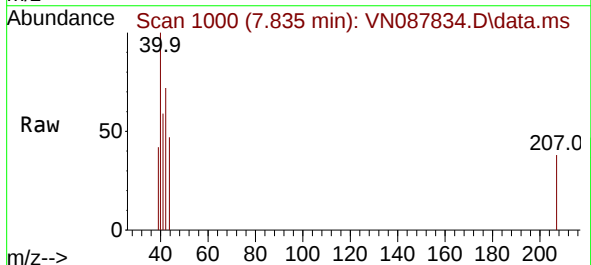


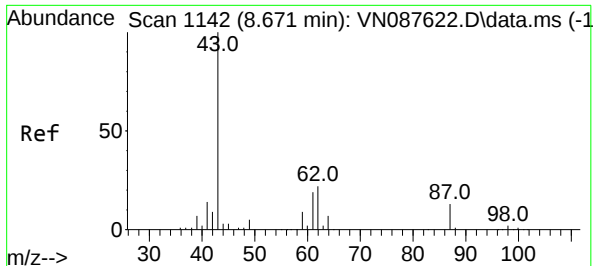
Tgt Ion:117 Resp: 18862
Ion Ratio Lower Upper
117 100
119 9.1 79.0 118.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.235 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.076 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 41 Resp: 692
Ion Ratio Lower Upper
41 100
39 46.4 45.4 68.0
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#

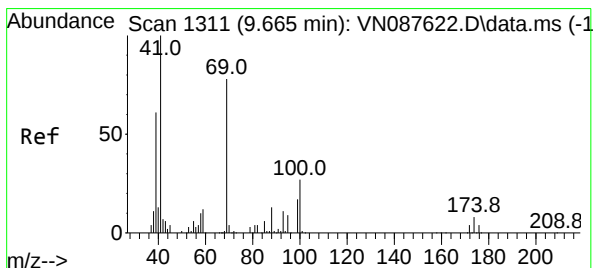
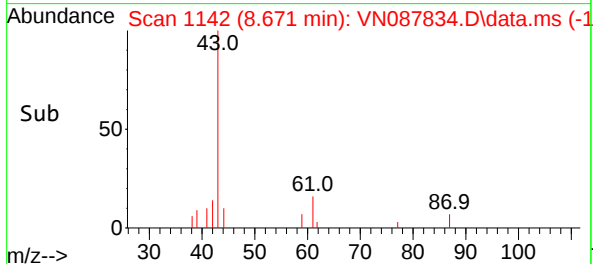
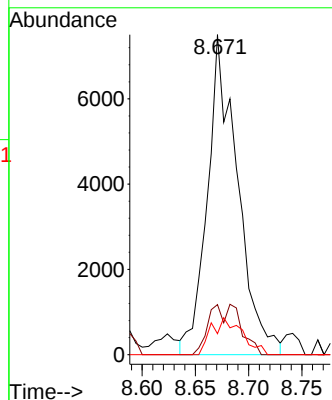
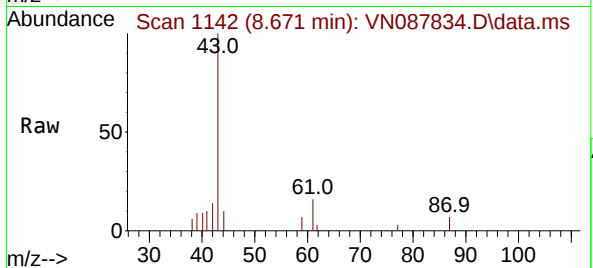




#43
Isopropyl Acetate
Concen: 1.664 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

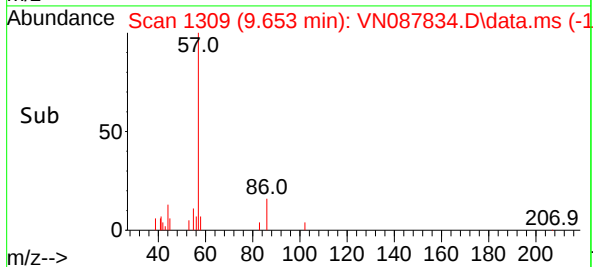
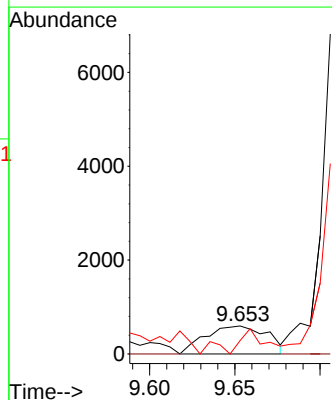
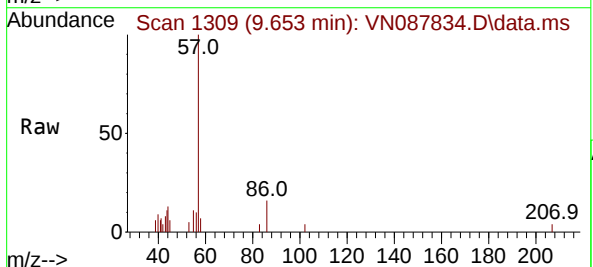
Instrument :
MSVOA_N
ClientSampleId :
291376

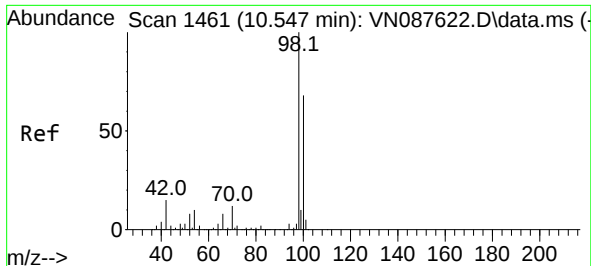
Tgt Ion: 43 Resp: 14751
Ion Ratio Lower Upper
43 100
61 8.5 18.8 28.2#
87 11.8 9.6 14.4



#48
Methyl methacrylate
Concen: 0.360 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.012 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 41 Resp: 1508
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.9 79.3#

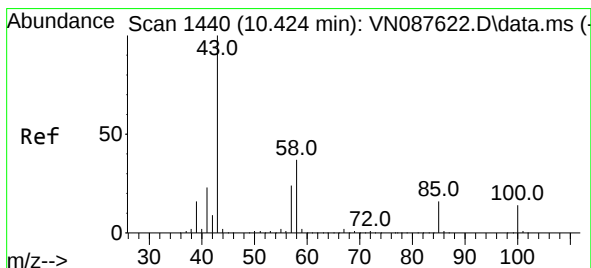
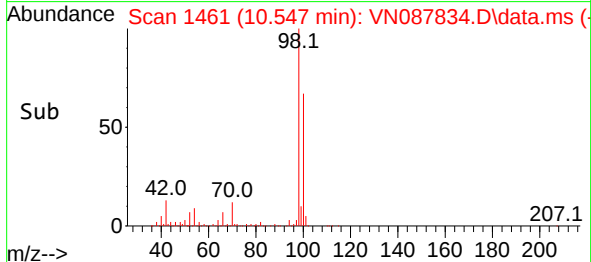
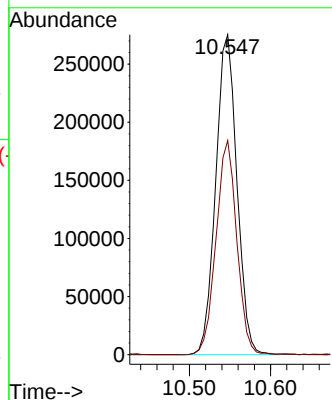
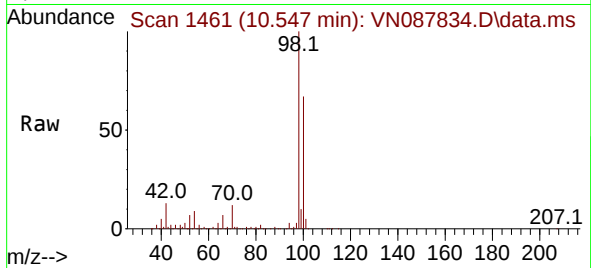




#50
Toluene-d8
Concen: 49.337 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

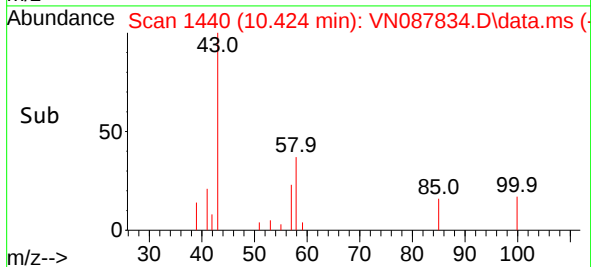
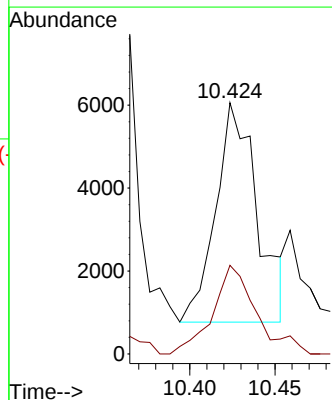
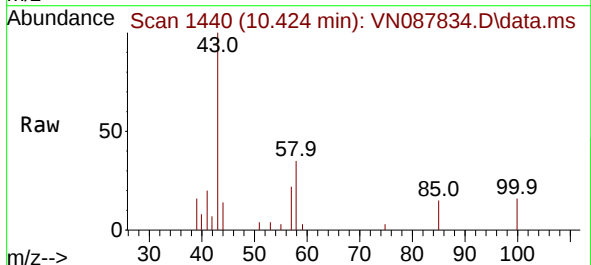
Instrument :
MSVOA_N
ClientSampleId :
291376

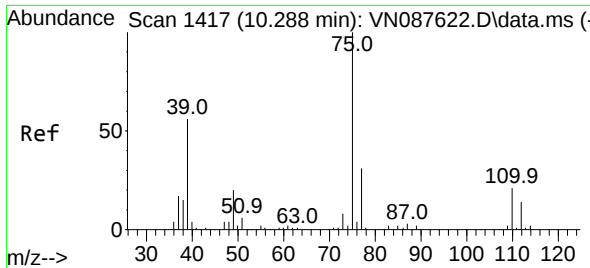
Tgt Ion: 98 Resp: 500185
Ion Ratio Lower Upper
98 100
100 65.6 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.675 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 43 Resp: 8959
Ion Ratio Lower Upper
43 100
58 42.2 29.6 44.4

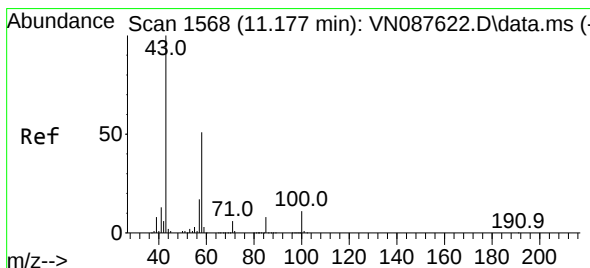
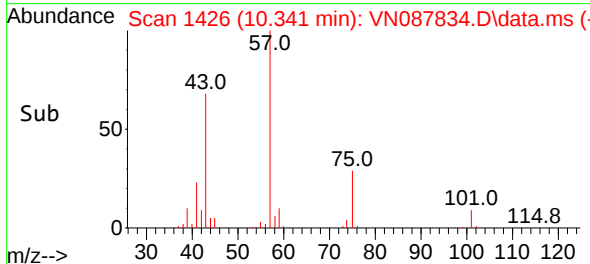
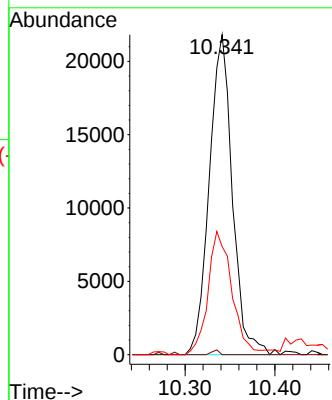
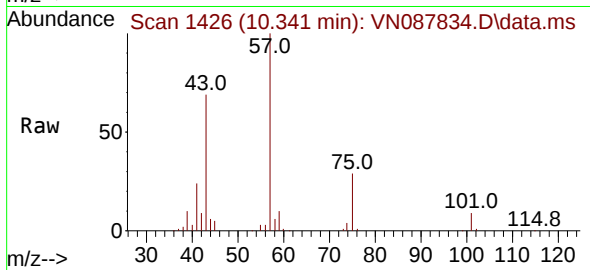




#54
 cis-1,3-Dichloropropene
 Concen: 7.394 ug/l
 RT: 10.341 min Scan# 1417
 Delta R.T. 0.053 min
 Lab File: VN087834.D
 Acq: 15 Sep 2025 13:59

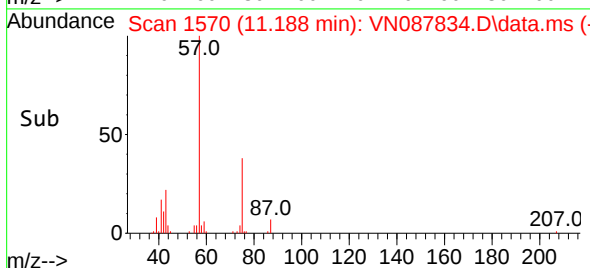
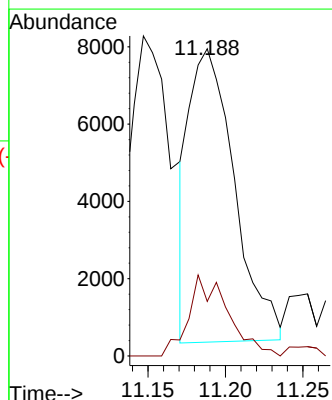
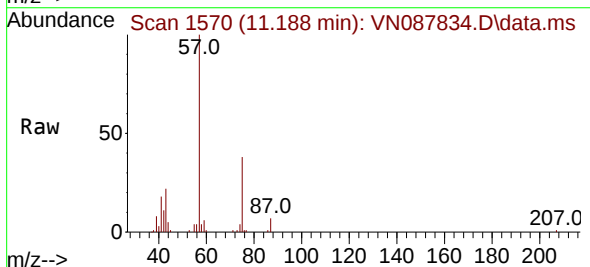
Instrument :
 MSVOA_N
 ClientSampleId :
 291376

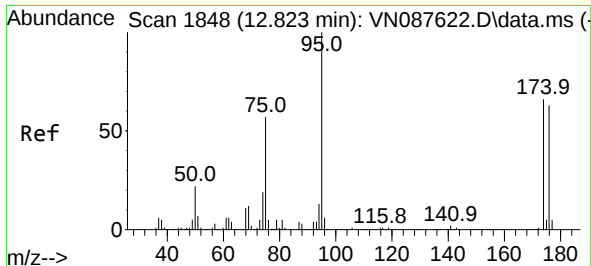
Tgt Ion: 75 Resp: 38935
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 33.8 45.2 67.8#



#59
 2-Hexanone
 Concen: 4.569 ug/l
 RT: 11.188 min Scan# 1570
 Delta R.T. 0.012 min
 Lab File: VN087834.D
 Acq: 15 Sep 2025 13:59

Tgt Ion: 43 Resp: 15445
 Ion Ratio Lower Upper
 43 100
 58 24.0 25.9 77.8#

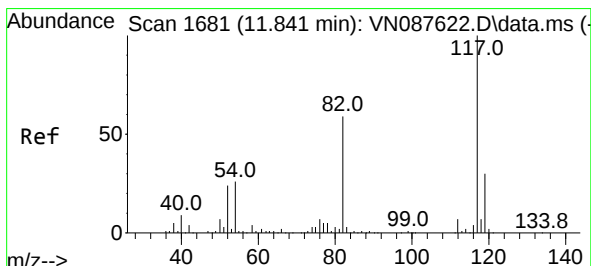
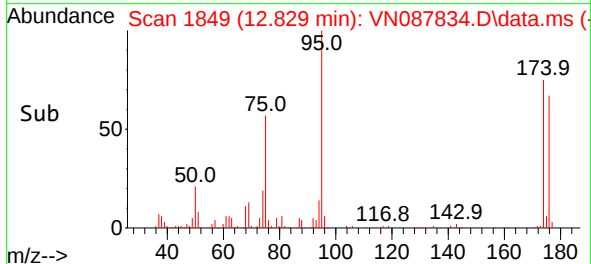
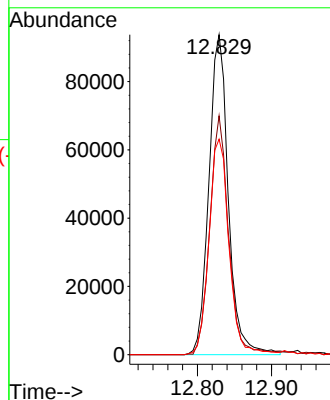
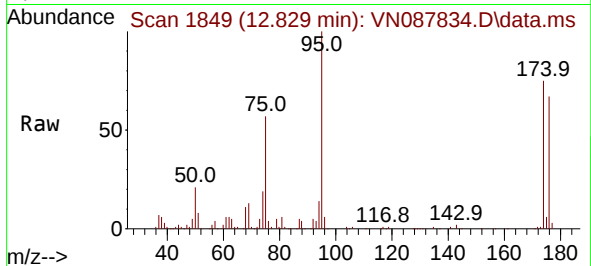




#62
4-Bromofluorobenzene
Concen: 47.370 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

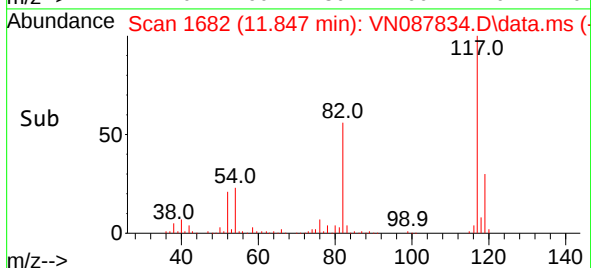
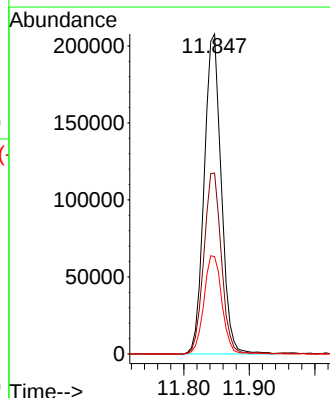
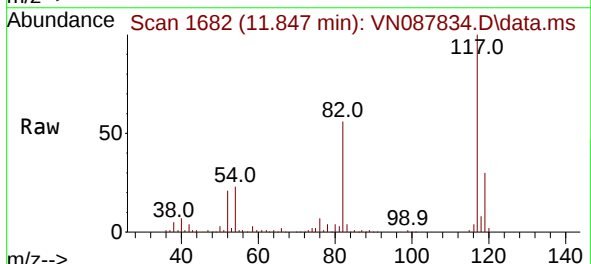
Instrument :
MSVOA_N
ClientSampleId :
291376

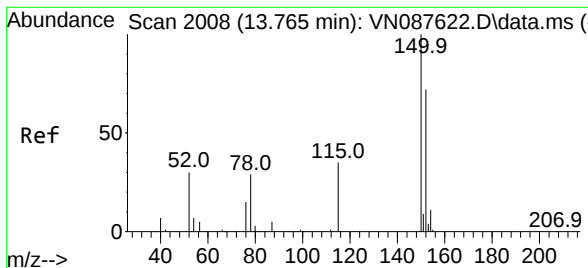
Tgt Ion: 95 Resp: 170787
Ion Ratio Lower Upper
95 100
174 72.1 0.0 138.4
176 69.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 117 Resp: 377116
Ion Ratio Lower Upper
117 100
82 56.5 47.4 71.2
119 30.4 24.3 36.5

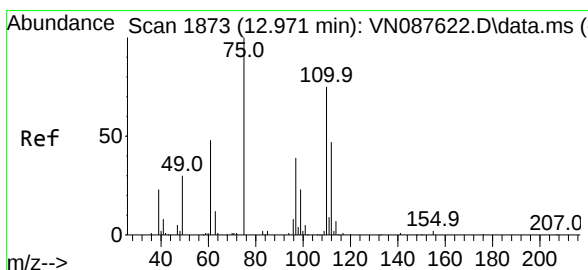
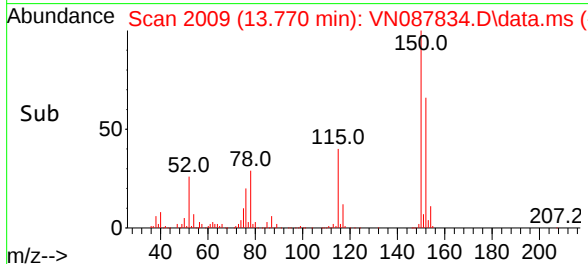
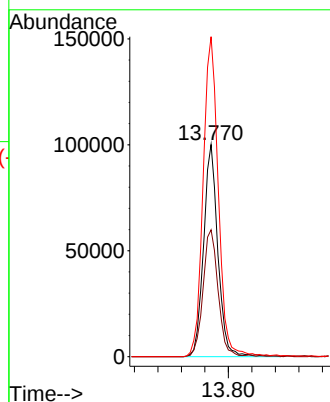
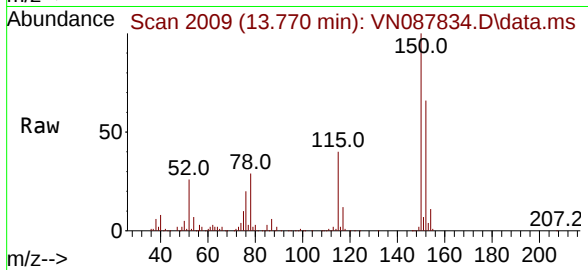




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN087834.D
 Acq: 15 Sep 2025 13:59

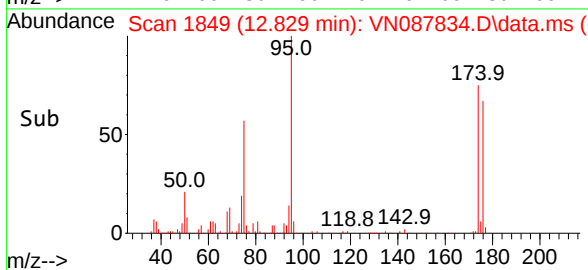
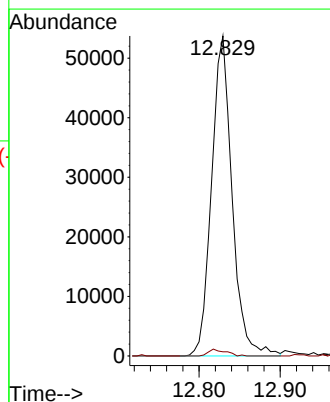
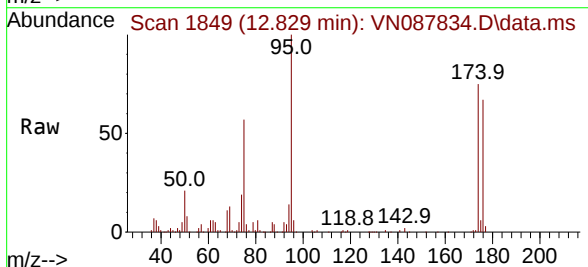
Instrument :
 MSVOA_N
 ClientSampleId :
 291376

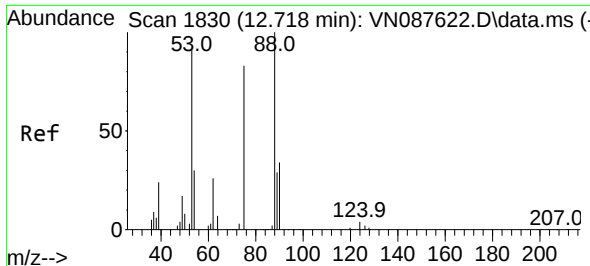
Tgt Ion:152 Resp: 169450
 Ion Ratio Lower Upper
 152 100
 115 62.7 32.3 96.8
 150 160.5 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.768 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087834.D
 Acq: 15 Sep 2025 13:59

Tgt Ion: 75 Resp: 94445
 Ion Ratio Lower Upper
 75 100
 77 1.8 89.1 267.4#

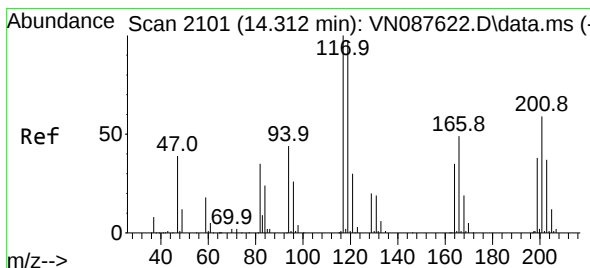
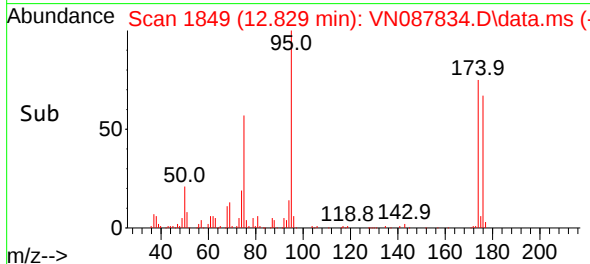
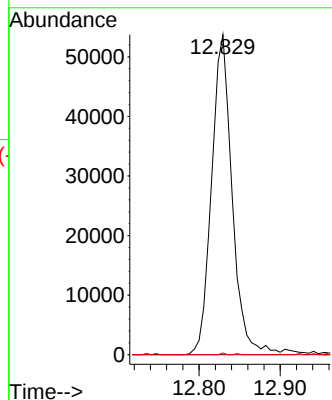
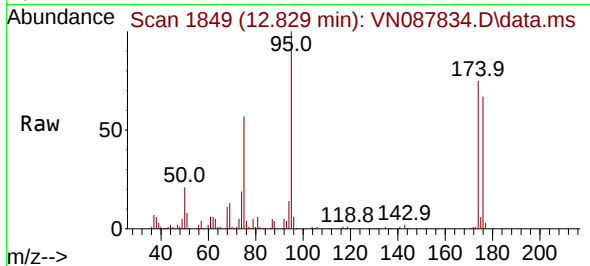




#81
trans-1,4-Dichloro-2-butene
Concen: 62.922 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Instrument :
MSVOA_N
ClientSampleId :
291376

Tgt Ion: 75 Resp: 94445
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.1 35.6 53.4#



#90
Hexachloroethane
Concen: 0.605 ug/l
RT: 14.423 min Scan# 2120
Delta R.T. 0.112 min
Lab File: VN087834.D
Acq: 15 Sep 2025 13:59

Tgt Ion: 117 Resp: 1367
Ion Ratio Lower Upper
117 100
201 0.0 29.1 87.4#

