

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087829.D
 Acq On : 15 Sep 2025 12:14
 Operator : JC\MD
 Sample : Q3082-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-30

Quant Time: Sep 16 01:34:08 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

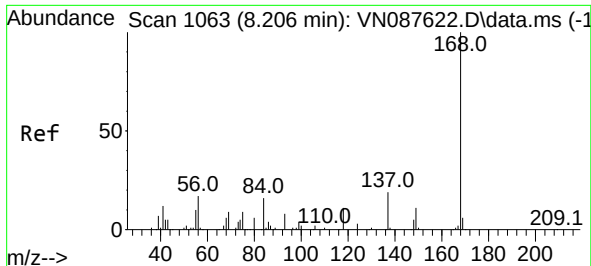
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	180990	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	413704	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	422006	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	190840	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	197879	53.361	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.720%			
35) Dibromofluoromethane	8.153	113	157167	52.618	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.240%			
50) Toluene-d8	10.547	98	552025	49.378	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.760%			
62) 4-Bromofluorobenzene	12.829	95	192800	48.493	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.980%			
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.677	142	69	6.842	ug/l #	38
11) Tert butyl alcohol	5.536	59	1229	1.909	ug/l #	71
13) Acrolein	4.165	56	246	0.311	ug/l #	14
16) Acetone	4.424	43	108396	53.697	ug/l	94
17) Carbon Disulfide	4.712	76	2389	0.333	ug/l #	71
18) Methyl Acetate	5.018	43	10624	2.514	ug/l #	49
20) Methylene Chloride	5.271	84	10415	2.385	ug/l #	67
25) 2-Butanone	7.483	43	12994	4.893	ug/l #	81
29) Tetrahydrofuran	7.836	42	1650	0.965	ug/l #	39
31) Cyclohexane	8.206	56	5373	1.152	ug/l #	17
36) 1,1-Dichloropropene	8.206	75	16357	3.570	ug/l #	52
37) Ethyl Acetate	7.553	43	10346	1.652	ug/l	97
38) Carbon Tetrachloride	8.206	117	19721	4.359	ug/l #	17
43) Isopropyl Acetate	8.671	43	22331	2.284	ug/l	96
45) 1,2-Dichloropropane	9.718	63	1819	0.491	ug/l #	43
48) Methyl methacrylate	9.724	41	127844	27.647	ug/l #	47
49) 1,4-Dioxane	9.741	88	133	2.219	ug/l #	13
51) 4-Methyl-2-Pentanone	10.424	43	8107	1.374	ug/l #	86
54) cis-1,3-Dichloropropene	10.341	75	52800	9.092	ug/l #	64
57) 1,3-Dichloropropane	11.188	76	3538	0.593	ug/l #	42
59) 2-Hexanone	11.188	43	61005	16.365	ug/l #	51
76) 1,2,3-Trichloropropane	12.824	75	106387	23.772	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.824	75	106387	62.934	ug/l #	1

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

Quant Time: Sep 16 01:34:08 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

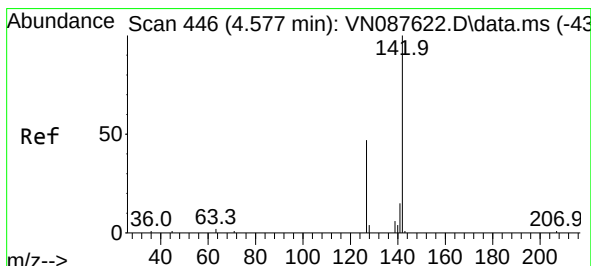
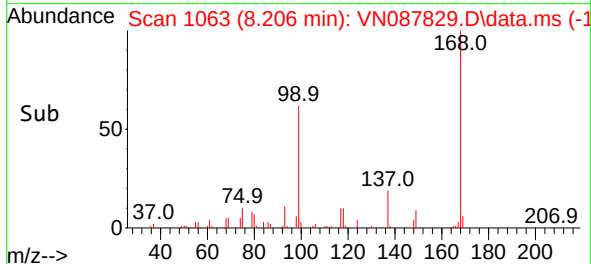
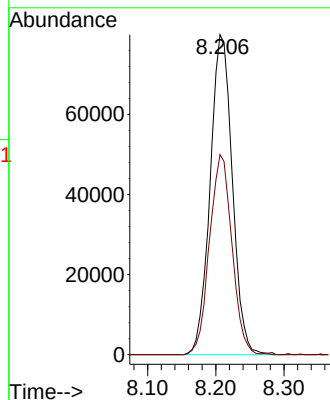
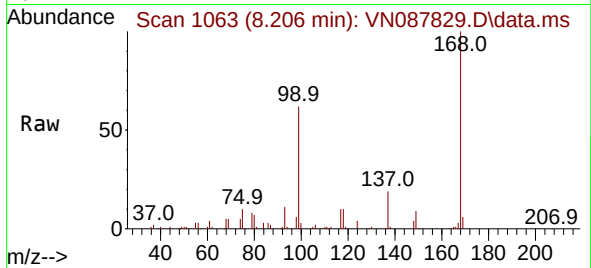




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

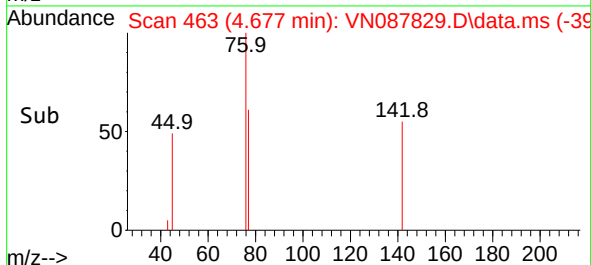
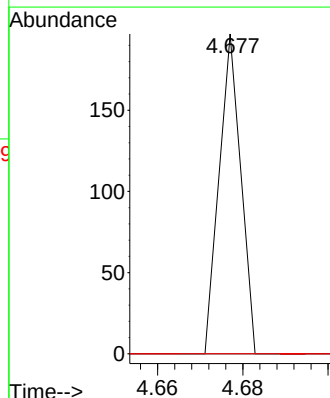
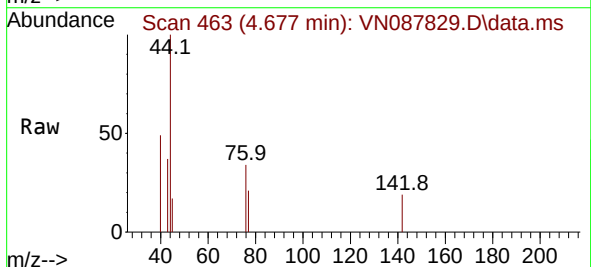
Instrument :
MSVOA_N
ClientSampleId :
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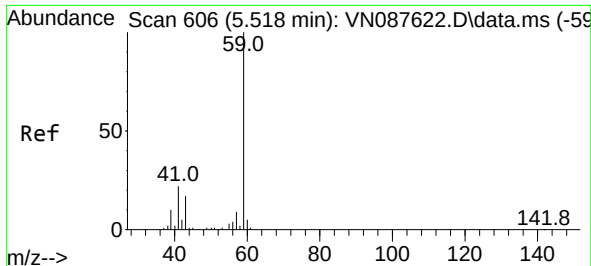
Tgt Ion:168 Resp: 180990
Ion Ratio Lower Upper
168 100
99 62.5 57.2 85.8



#10
Methyl Iodide
Concen: 6.842 ug/l
RT: 4.677 min Scan# 463
Delta R.T. 0.100 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion:142 Resp: 69
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

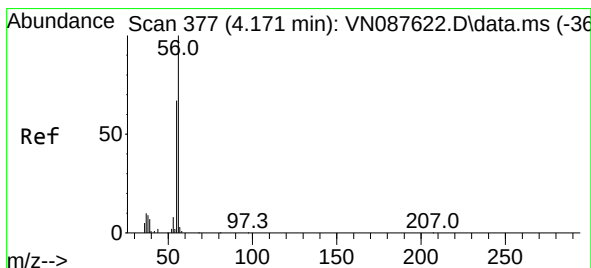
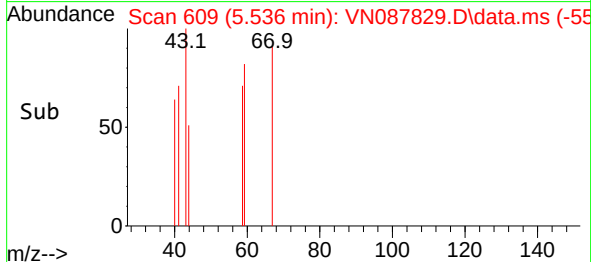
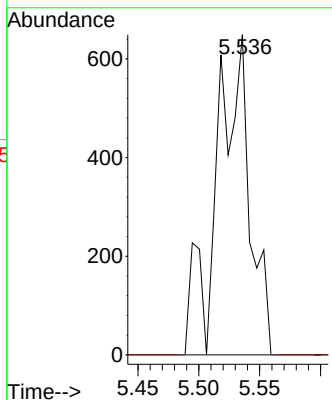
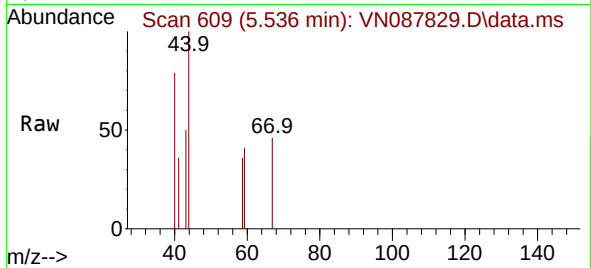




#11
Tert butyl alcohol
Concen: 1.909 ug/l
RT: 5.536 min Scan# 606
Delta R.T. 0.018 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

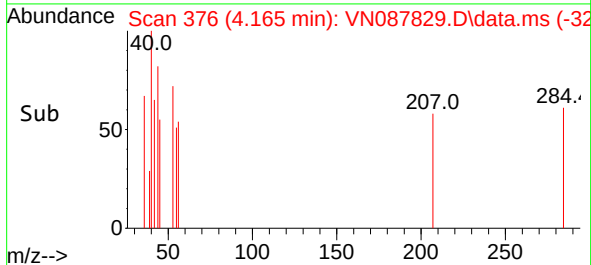
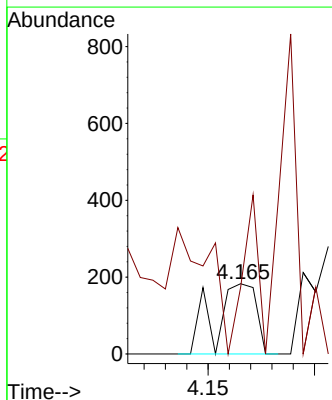
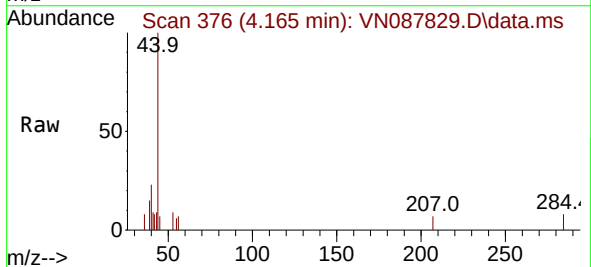
Instrument :
MSVOA_N
ClientSampleId :
WC-30

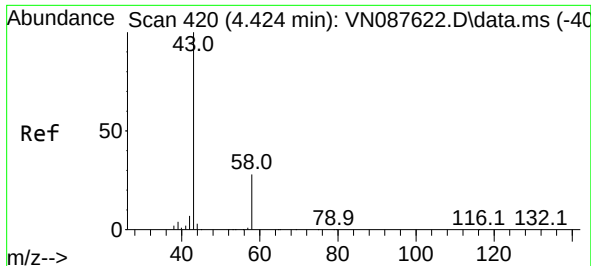
Tgt Ion: 59 Resp: 1229
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.311 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion: 56 Resp: 246
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#





#16

Acetone

Concen: 53.697 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

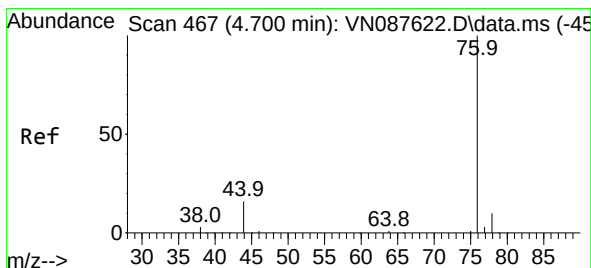
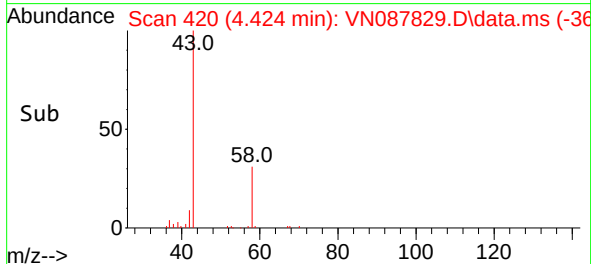
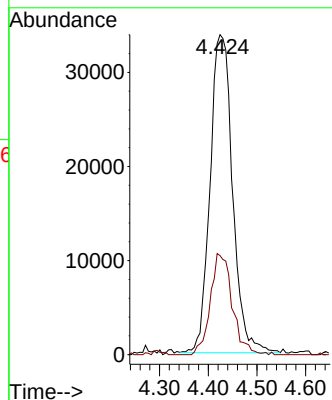
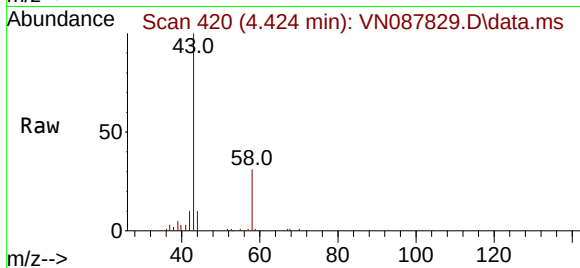
WC-30

Tgt Ion: 43 Resp: 108396

Ion Ratio Lower Upper

43 100

58 31.1 22.6 33.8



#17

Carbon Disulfide

Concen: 0.333 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.012 min

Lab File: VN087829.D

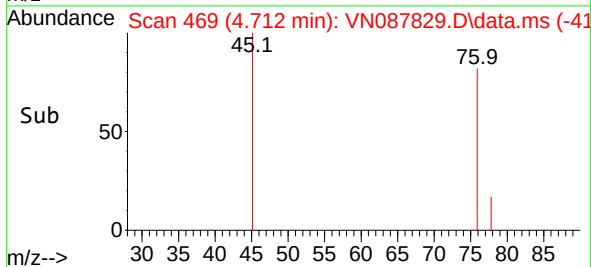
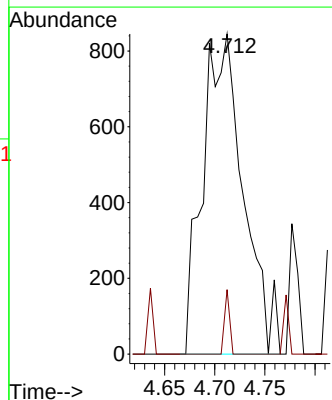
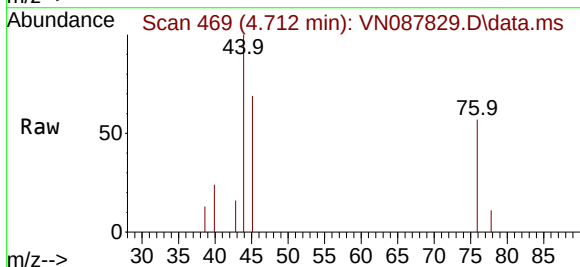
Acq: 15 Sep 2025 12:14

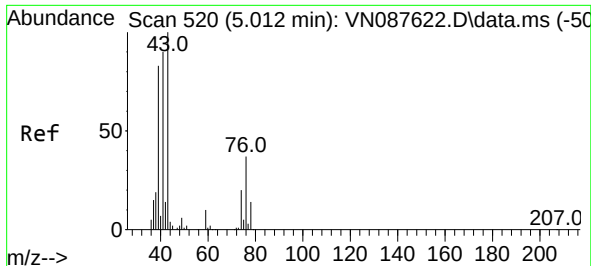
Tgt Ion: 76 Resp: 2389

Ion Ratio Lower Upper

76 100

78 20.1 7.6 11.4#





#18

Methyl Acetate

Concen: 2.514 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

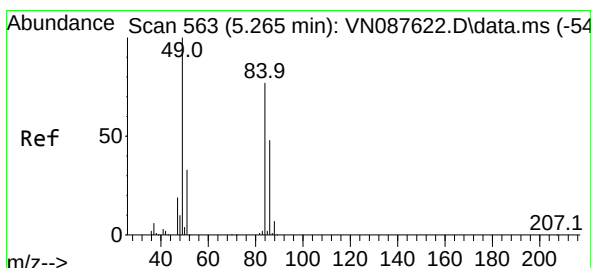
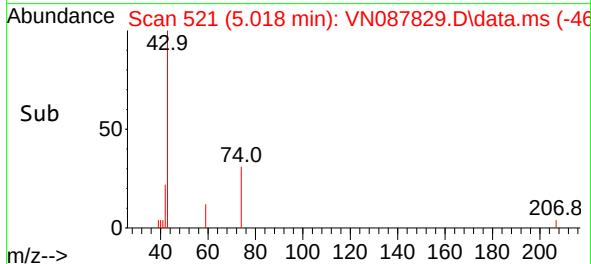
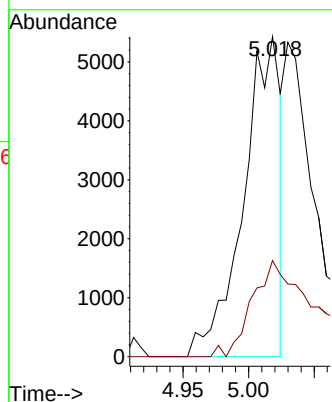
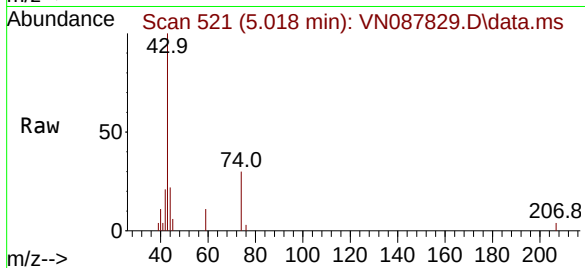
WC-30

Tgt Ion: 43 Resp: 10624

Ion Ratio Lower Upper

43 100

74 46.3 17.6 26.4#



#20

Methylene Chloride

Concen: 2.385 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Tgt Ion: 84 Resp: 10415

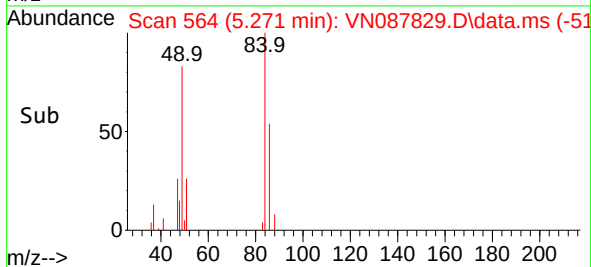
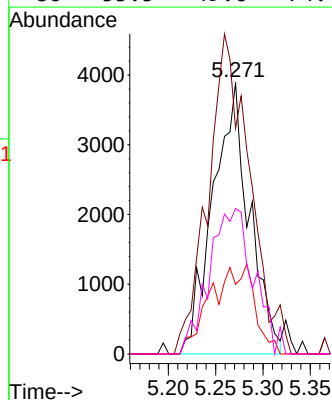
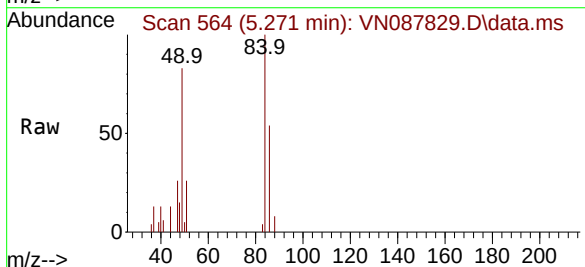
Ion Ratio Lower Upper

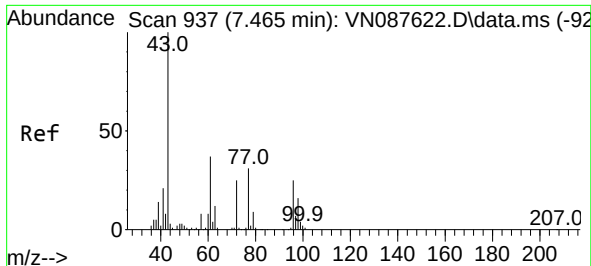
84 100

49 75.7 103.4 155.2#

51 25.6 33.8 50.8#

86 53.5 49.6 74.4

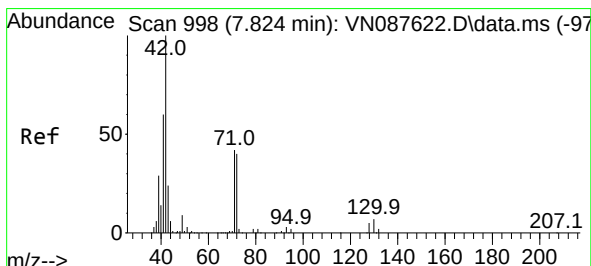
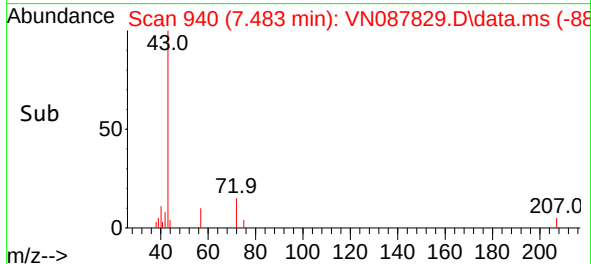
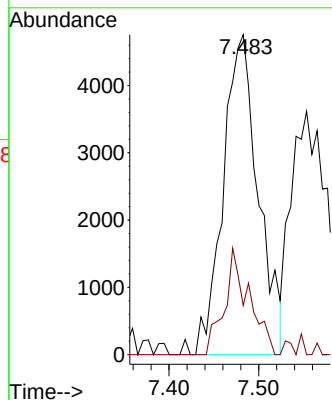
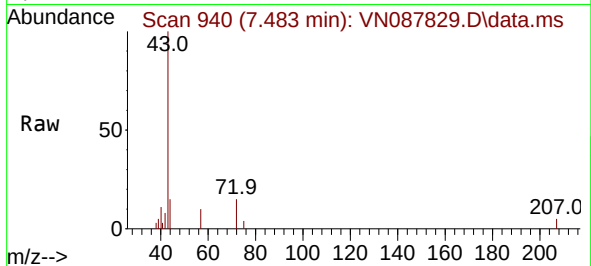




#25
2-Butanone
Concen: 4.893 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

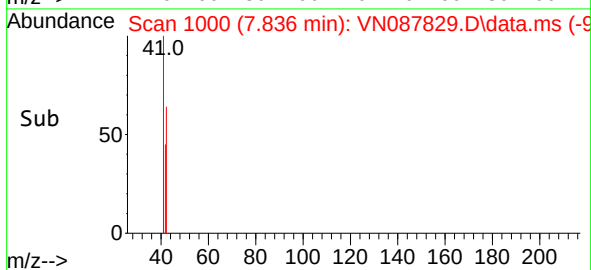
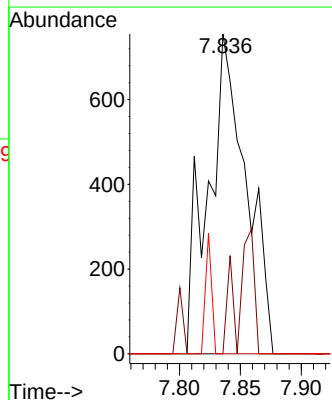
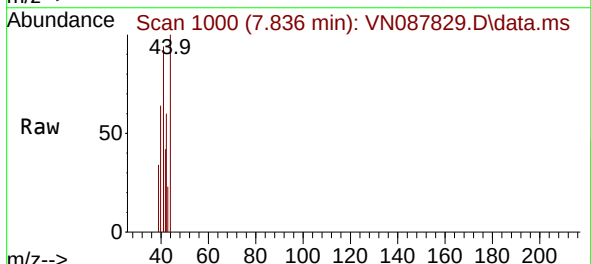
Instrument :
MSVOA_N
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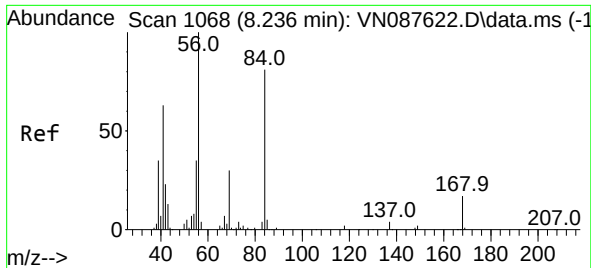
Tgt Ion: 43 Resp: 12994
Ion Ratio Lower Upper
43 100
72 15.4 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.965 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion: 42 Resp: 1650
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 6.1 31.9 47.9#

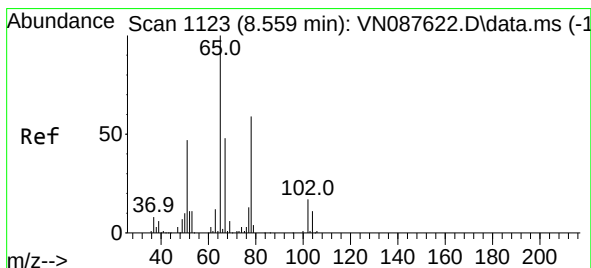
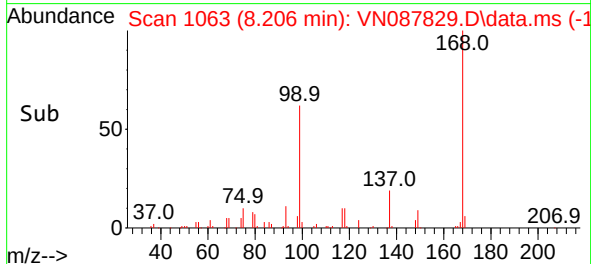
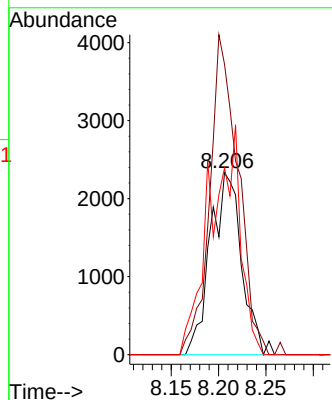
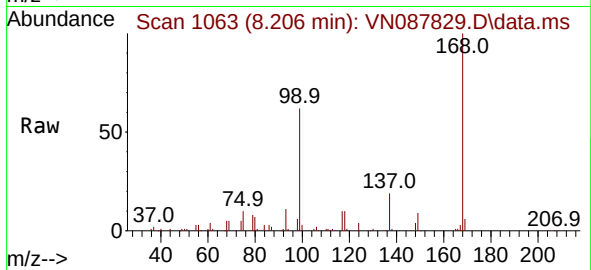




#31
Cyclohexane
Concen: 1.152 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

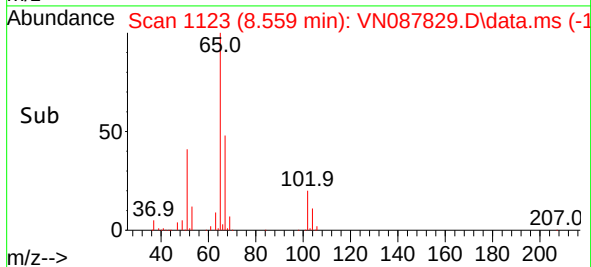
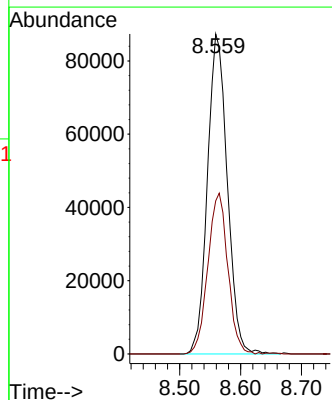
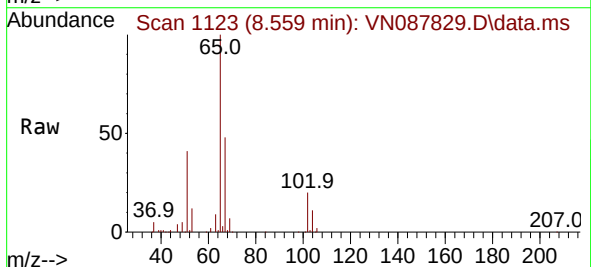
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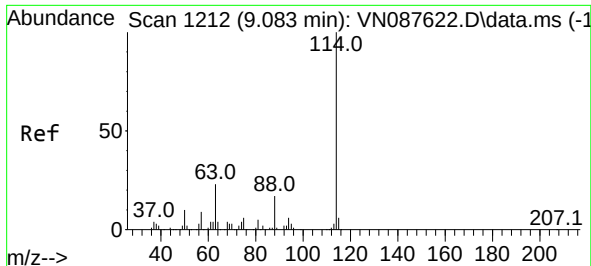
Tgt Ion: 56 Resp: 5373
Ion Ratio Lower Upper
56 100
69 159.6 23.7 35.5#
84 102.7 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 53.361 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion: 65 Resp: 197879
Ion Ratio Lower Upper
65 100
67 50.6 0.0 100.0

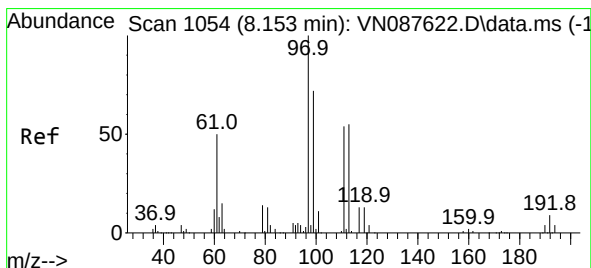
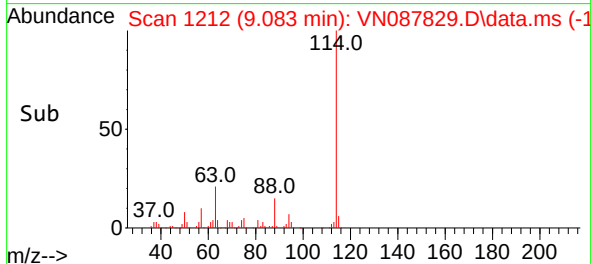
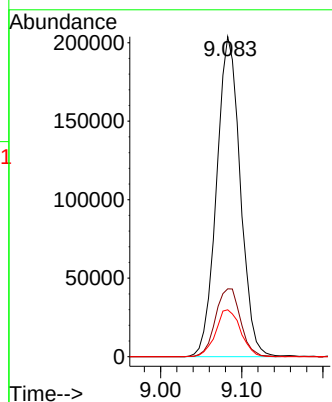
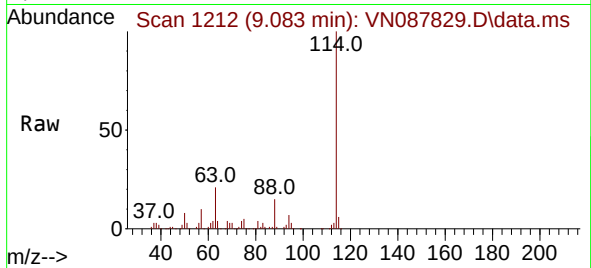




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

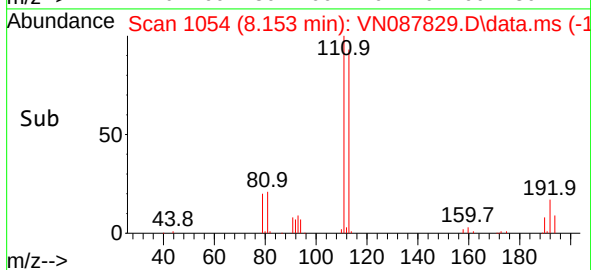
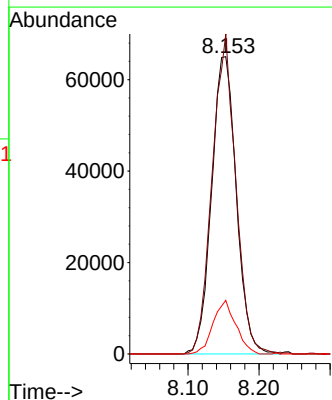
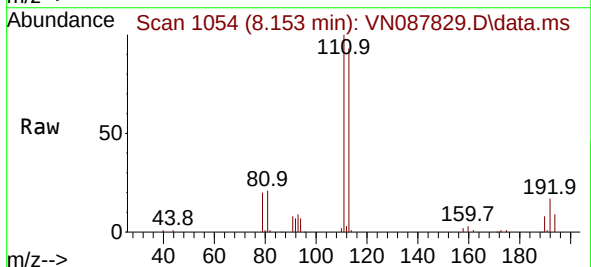
Instrument :
MSVOA_N
ClientSampleId :
WC-30

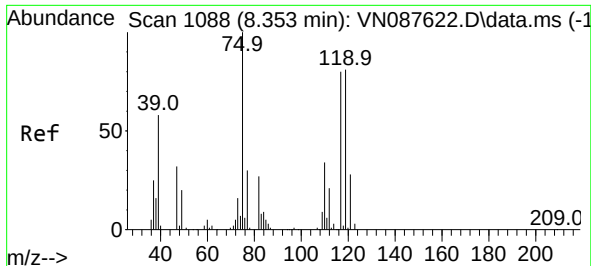
Tgt Ion:114 Resp: 413704
Ion Ratio Lower Upper
114 100
63 21.2 0.0 45.2
88 14.6 0.0 33.4



#35
Dibromofluoromethane
Concen: 52.618 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion:113 Resp: 157167
Ion Ratio Lower Upper
113 100
111 102.5 82.8 124.2
192 16.6 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.570 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

WC-30

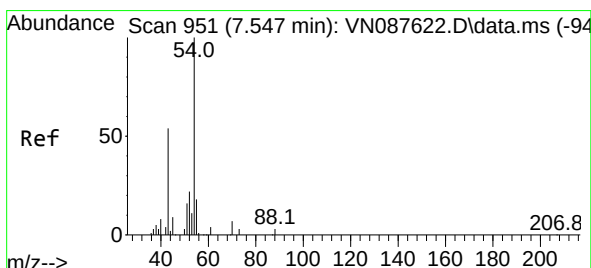
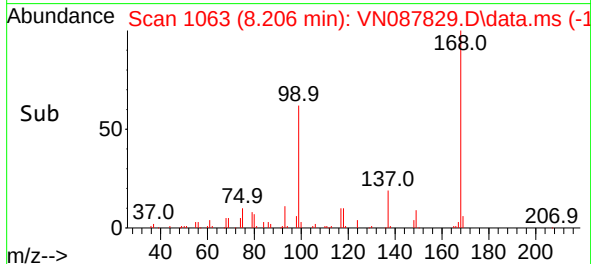
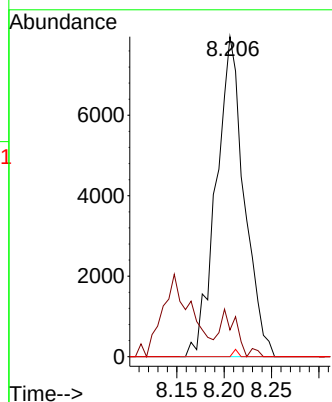
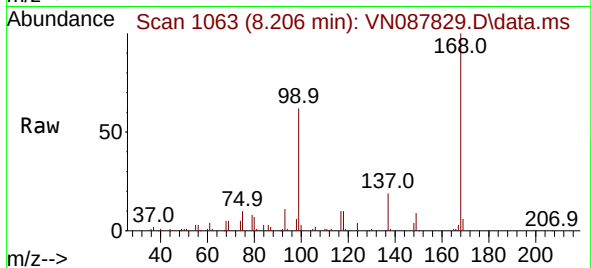
Tgt Ion: 75 Resp: 16357

Ion Ratio Lower Upper

75 100

110 9.0 15.9 47.6#

77 0.4 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.652 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

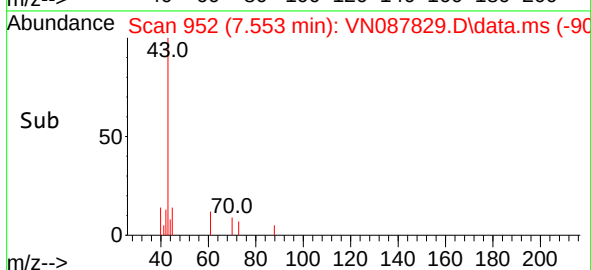
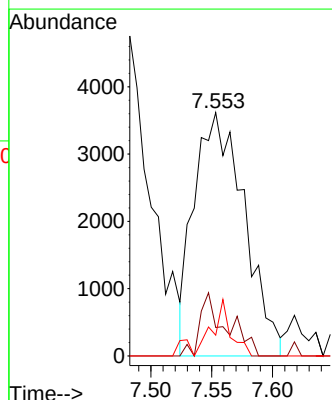
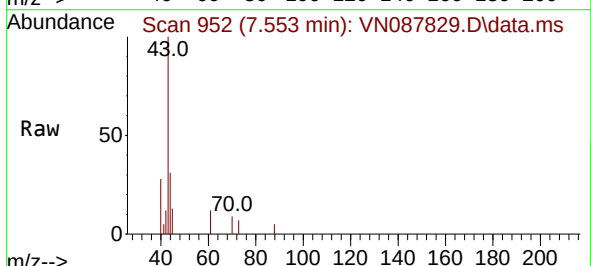
Tgt Ion: 43 Resp: 10346

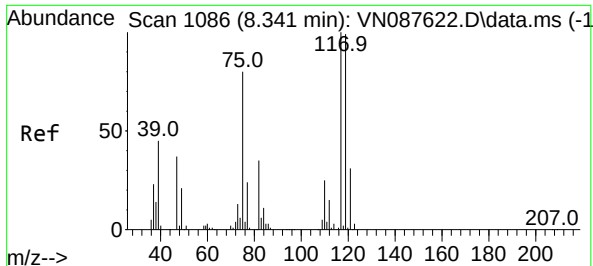
Ion Ratio Lower Upper

43 100

61 10.0 9.3 13.9

70 8.4 7.0 10.6

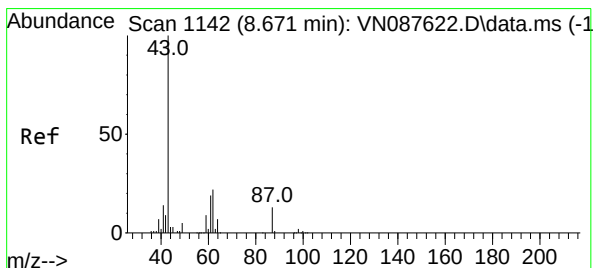
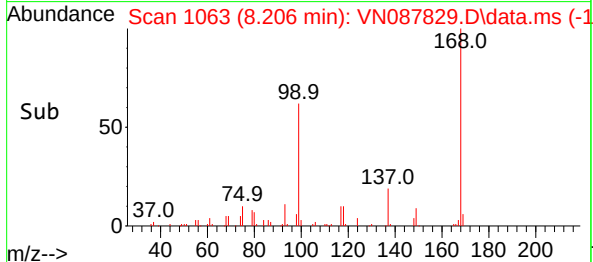
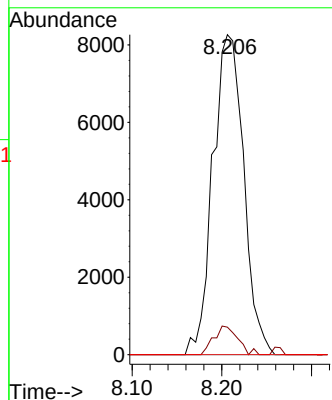
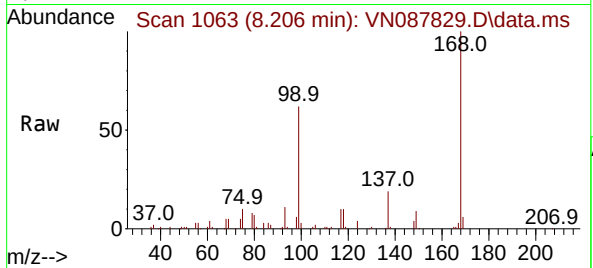




#38
Carbon Tetrachloride
Concen: 4.359 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

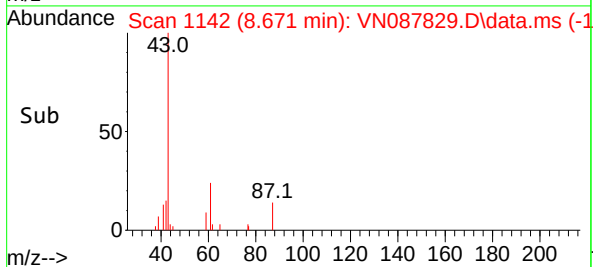
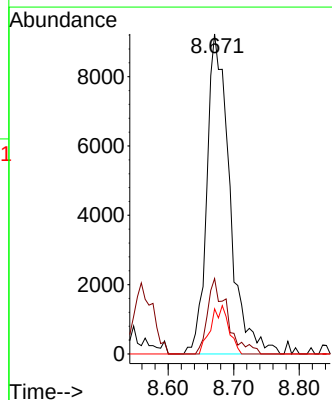
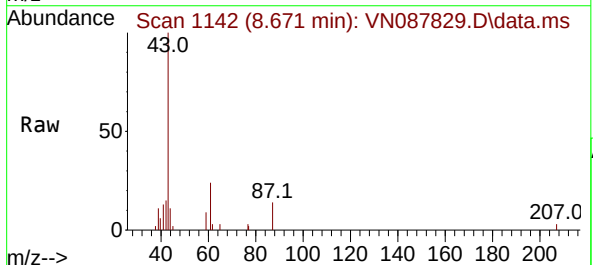
Instrument :
MSVOA_N
ClientSampleId :
WC-30

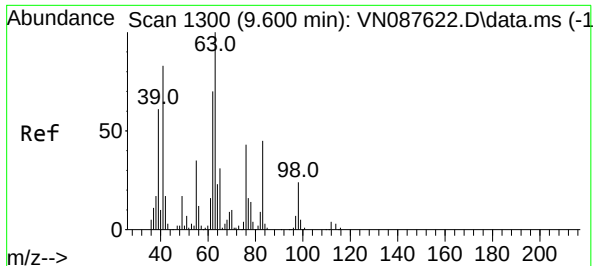
Tgt Ion:117 Resp: 19721
Ion Ratio Lower Upper
117 100
119 8.6 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.284 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion: 43 Resp: 22331
Ion Ratio Lower Upper
43 100
61 20.4 18.8 28.2
87 11.9 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.491 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.118 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

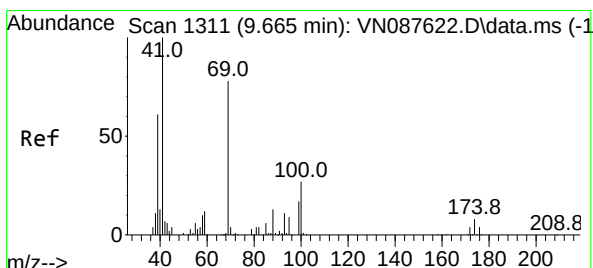
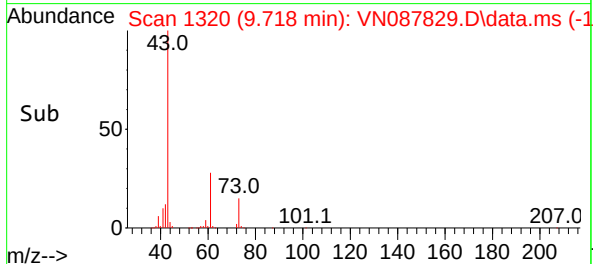
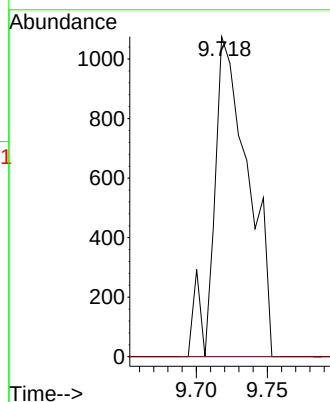
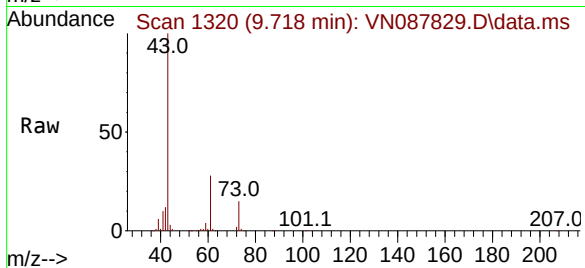
WC-30

Tgt Ion: 63 Resp: 1819

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 27.647 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

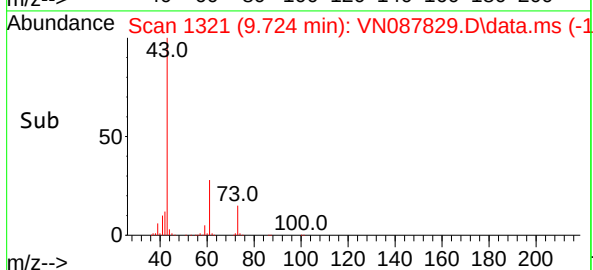
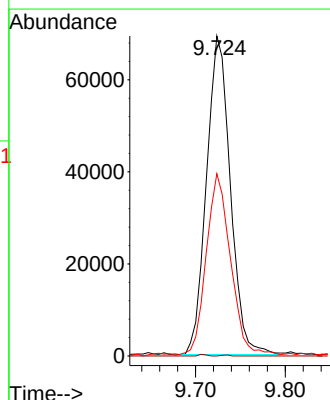
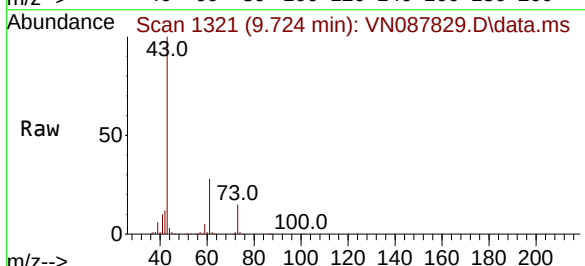
Tgt Ion: 41 Resp: 127844

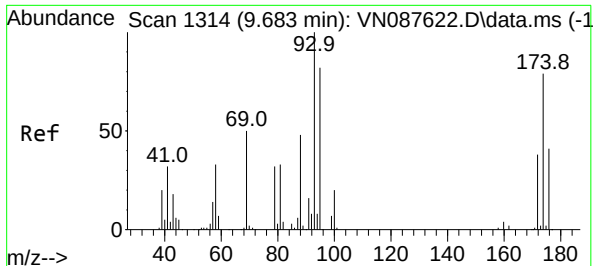
Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 57.9 52.9 79.3





#49

1,4-Dioxane

Concen: 2.219 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

WC-30

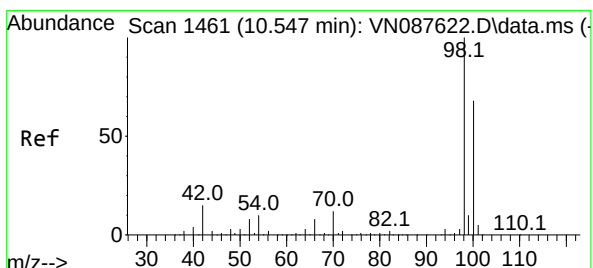
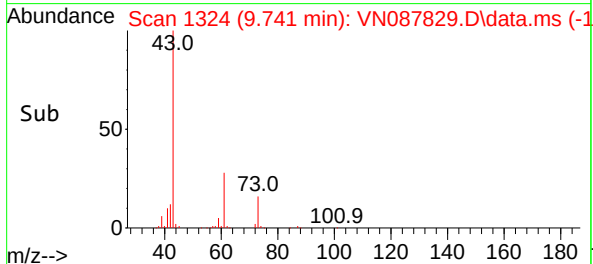
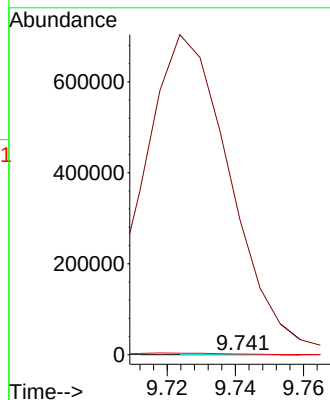
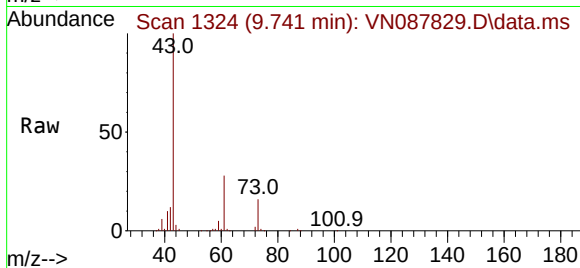
Tgt Ion: 88 Resp: 133

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 49.378 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087829.D

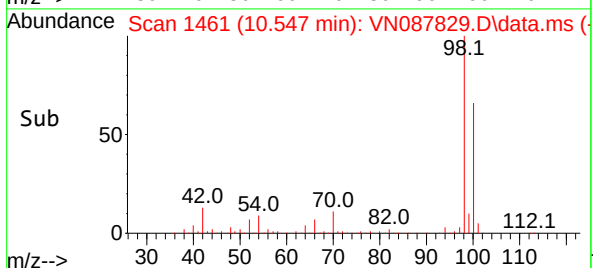
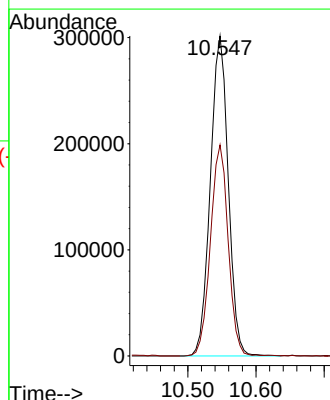
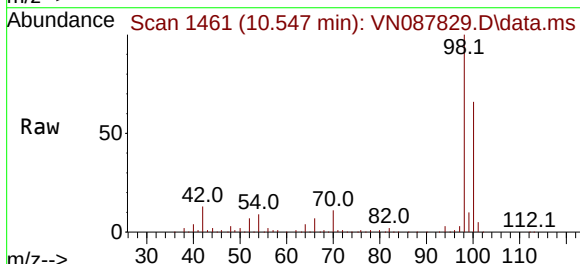
Acq: 15 Sep 2025 12:14

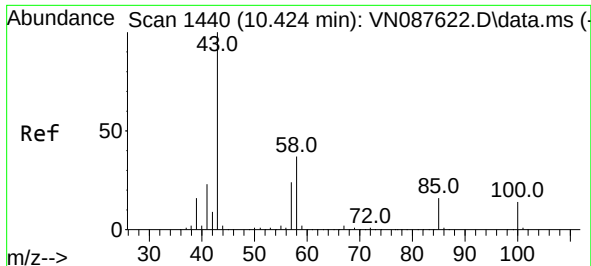
Tgt Ion: 98 Resp: 552025

Ion Ratio Lower Upper

98 100

100 65.2 52.8 79.2

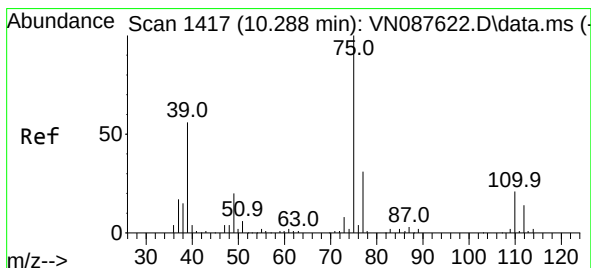
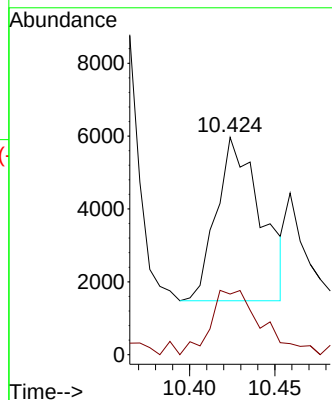
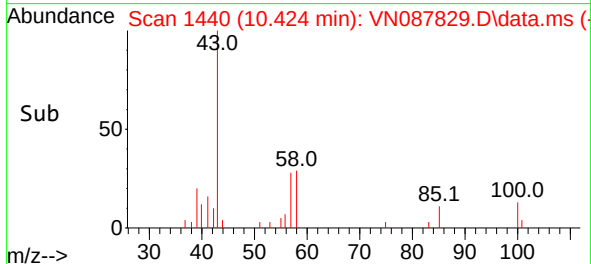
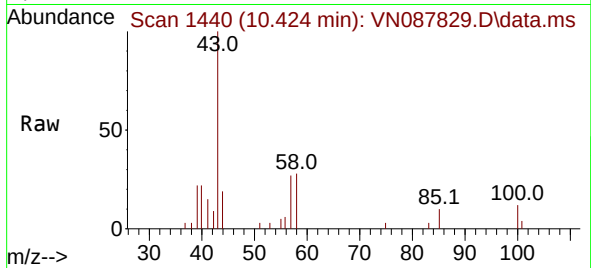




#51
4-Methyl-2-Pentanone
Concen: 1.374 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

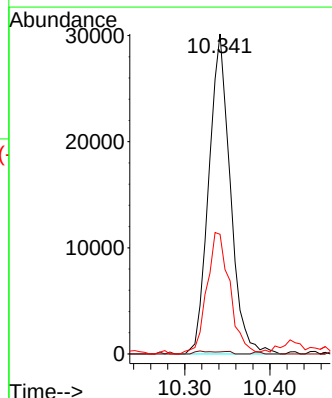
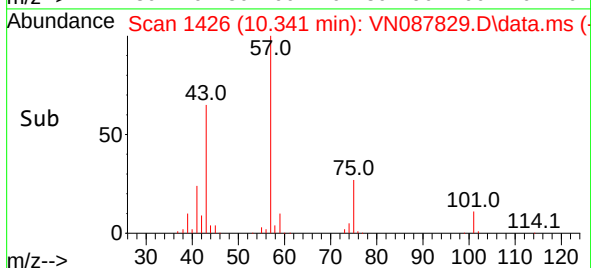
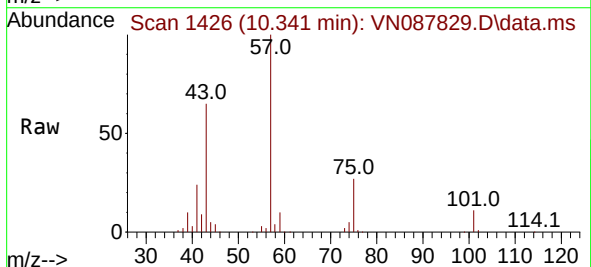
Instrument :
MSVOA_N
ClientSampleId :
WC-30

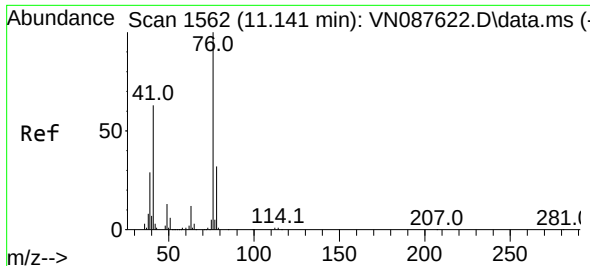
Tgt Ion: 43 Resp: 8107
Ion Ratio Lower Upper
43 100
58 45.5 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 9.092 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion: 75 Resp: 52800
Ion Ratio Lower Upper
75 100
77 0.6 24.6 37.0#
39 37.4 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.593 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

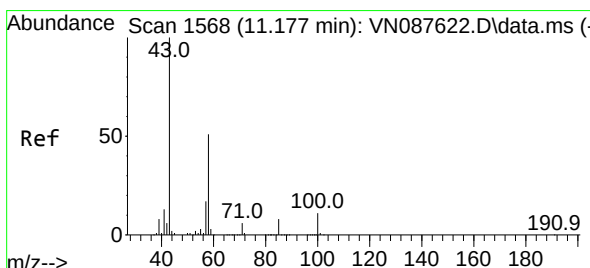
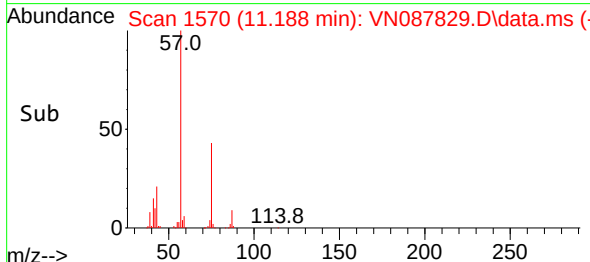
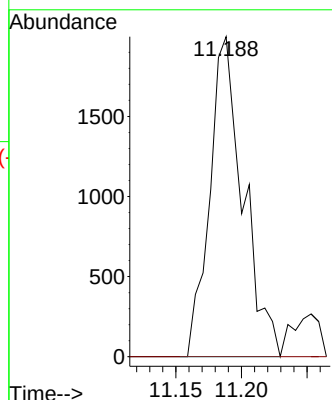
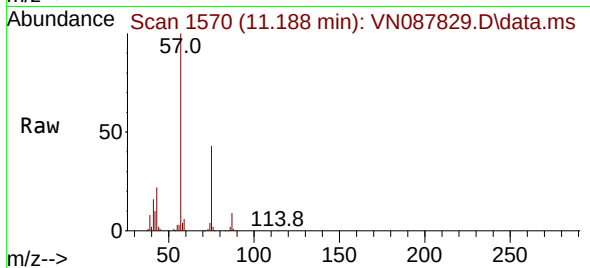
WC-30

Tgt Ion: 76 Resp: 3538

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 16.365 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN087829.D

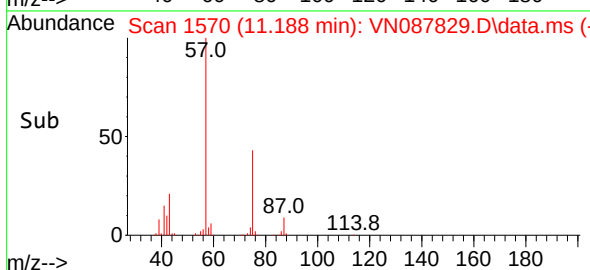
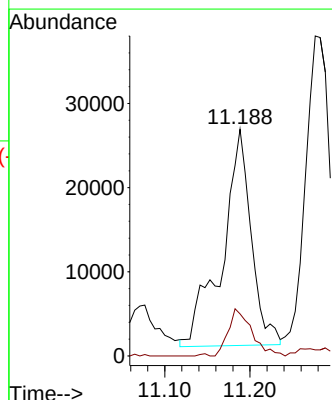
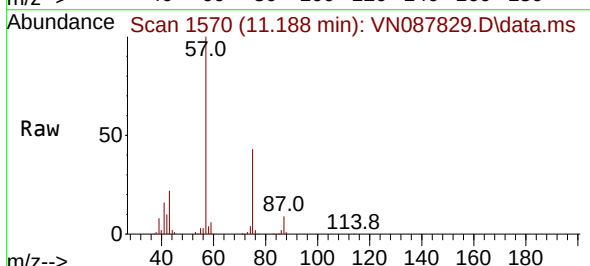
Acq: 15 Sep 2025 12:14

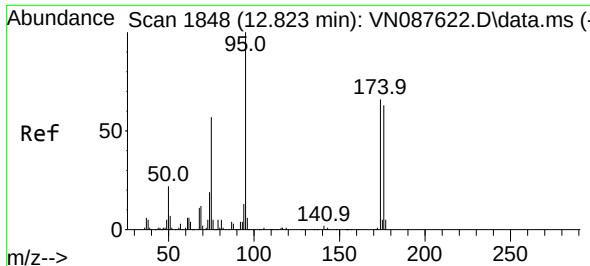
Tgt Ion: 43 Resp: 61005

Ion Ratio Lower Upper

43 100

58 17.5 25.9 77.8#

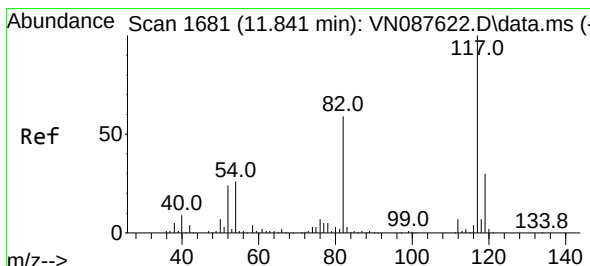
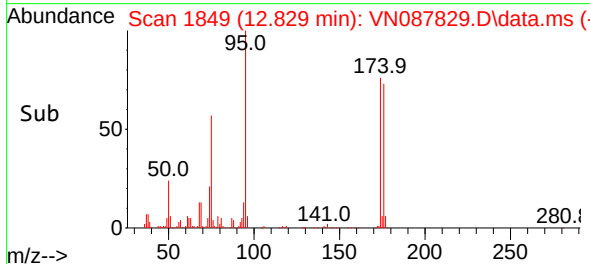
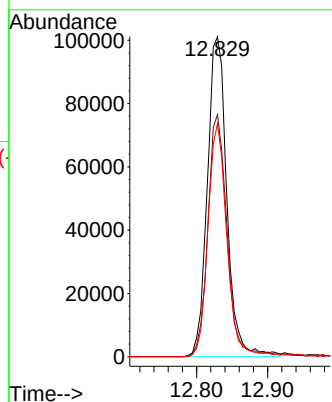
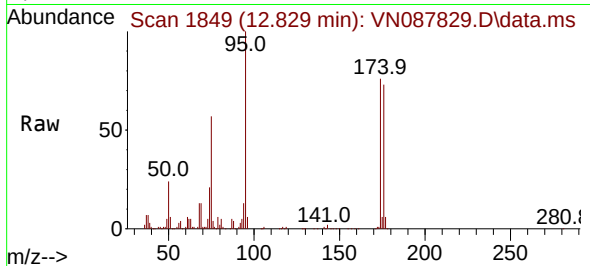




#62
4-Bromofluorobenzene
Concen: 48.493 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

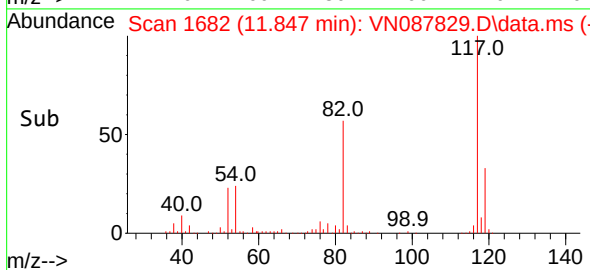
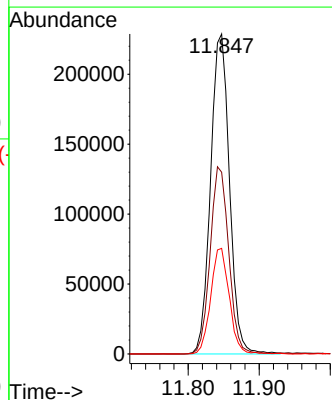
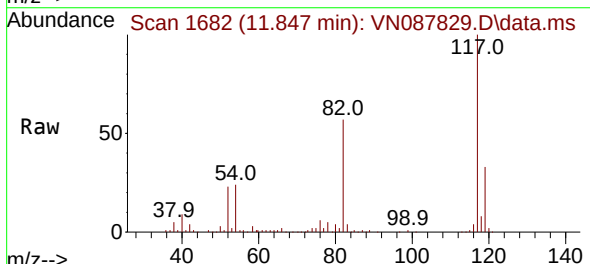
Instrument :
MSVOA_N
ClientSampleId :
WC-30

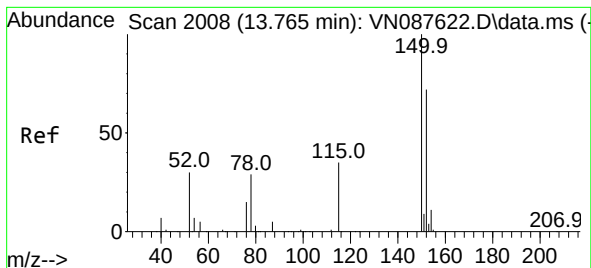
Tgt Ion: 95 Resp: 192800
Ion Ratio Lower Upper
95 100
174 75.1 0.0 138.4
176 70.7 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087829.D
Acq: 15 Sep 2025 12:14

Tgt Ion: 117 Resp: 422006
Ion Ratio Lower Upper
117 100
82 56.8 47.4 71.2
119 33.0 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: VN087829.D

Acq: 15 Sep 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

WC-30

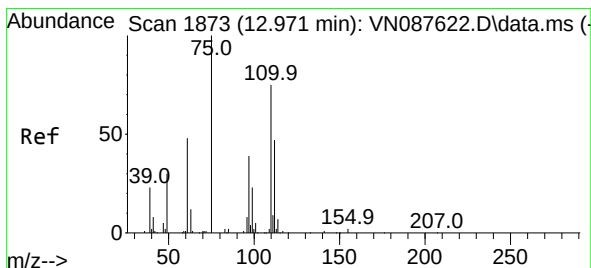
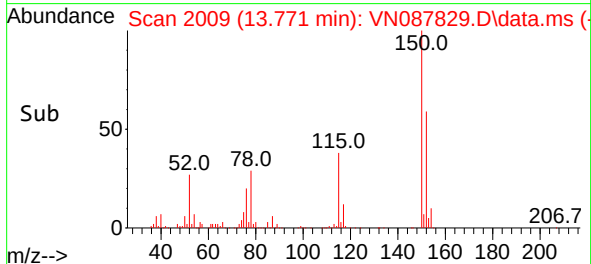
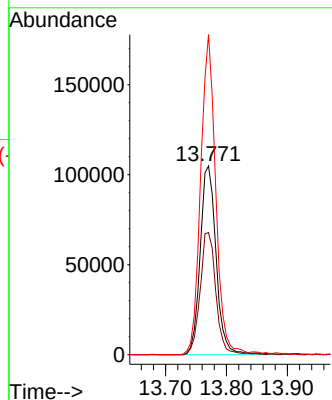
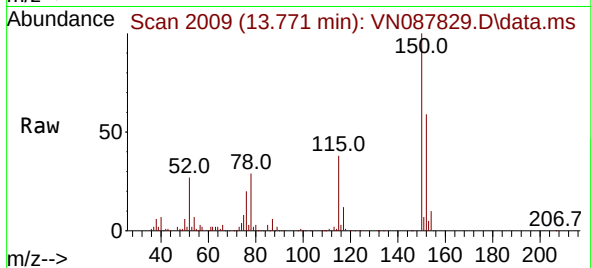
Tgt Ion:152 Resp: 190840

Ion Ratio Lower Upper

152 100

115 63.9 32.3 96.8

150 160.8 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.772 ug/l

RT: 12.824 min Scan# 1848

Delta R.T. -0.147 min

Lab File: VN087829.D

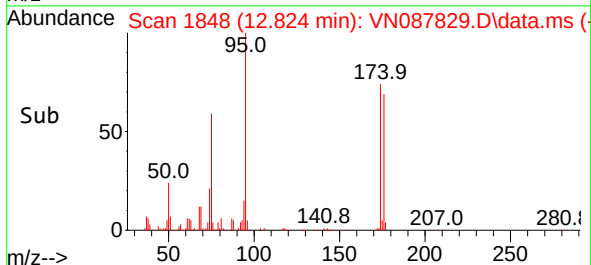
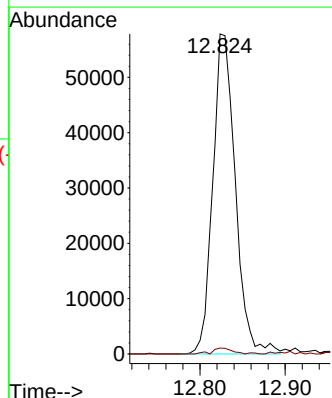
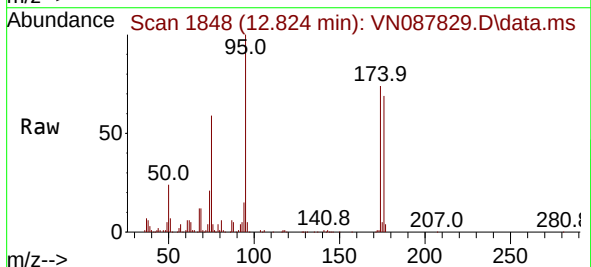
Acq: 15 Sep 2025 12:14

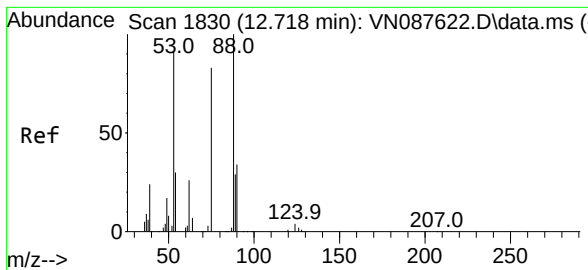
Tgt Ion: 75 Resp: 106387

Ion Ratio Lower Upper

75 100

77 1.6 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.934 ug/l
 RT: 12.824 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN087829.D
 Acq: 15 Sep 2025 12:14

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-30

Tgt Ion: 75 Resp: 106387
 Ion Ratio Lower Upper
 75 100
 53 0.2 101.8 152.6#
 89 0.5 35.6 53.4#

