

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087682.D
 Acq On : 28 Aug 2025 14:05
 Operator : JC\MD
 Sample : PB169423TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB169423TB

Quant Time: Aug 29 03:18:04 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)

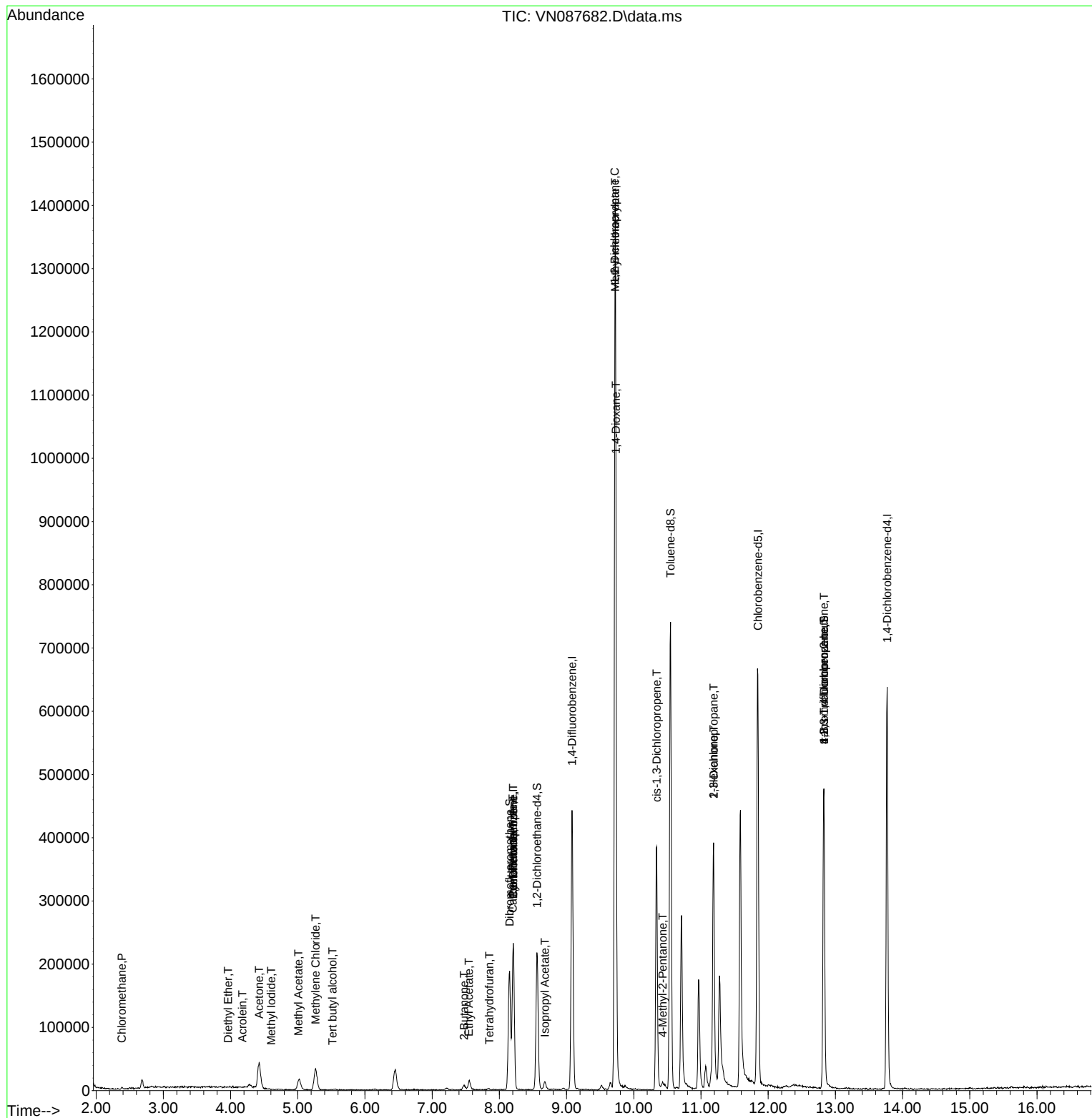
Internal Standards						
1) Pentafluorobenzene	8.206	168	153995	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	361978	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	361531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	160948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	178106	56.449	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.900%			
35) Dibromofluoromethane	8.153	113	135757	51.945	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.900%			
50) Toluene-d8	10.547	98	479662	49.036	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.080%			
62) 4-Bromofluorobenzene	12.829	95	164425	47.266	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.540%			
Target Compounds						Qvalue
3) Chloromethane	2.383	50	3184	1.417	ug/l #	86
8) Diethyl Ether	3.965	74	342	0.206	ug/l	86
10) Methyl Iodide	4.606	142	188	6.911	ug/l #	38
11) Tert butyl alcohol	5.518	59	714	1.304	ug/l #	71
13) Acrolein	4.177	56	378	0.561	ug/l #	14
16) Acetone	4.424	43	76375	44.467	ug/l	93
18) Methyl Acetate	5.012	43	37443	10.412	ug/l	99
20) Methylene Chloride	5.265	84	25411	9.216	ug/l	93
25) 2-Butanone	7.476	43	12285	5.437	ug/l	98
29) Tetrahydrofuran	7.853	42	1415	0.973	ug/l #	52
31) Cyclohexane	8.206	56	4686	1.181	ug/l #	17
36) 1,1-Dichloropropene	8.206	75	15711	3.919	ug/l #	50
37) Ethyl Acetate	7.547	43	22555	4.117	ug/l	96
38) Carbon Tetrachloride	8.200	117	18902	4.775	ug/l #	15
43) Isopropyl Acetate	8.676	43	15554	1.818	ug/l #	79
45) 1,2-Dichloropropane	9.718	63	1861	0.574	ug/l #	43
48) Methyl methacrylate	9.723	41	137014	33.864	ug/l #	46
49) 1,4-Dioxane	9.735	88	134	2.555	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	8191	1.587	ug/l	88
54) cis-1,3-Dichloropropene	10.341	75	65770	12.944	ug/l #	66
57) 1,3-Dichloropropane	11.188	76	4341	0.832	ug/l #	42
59) 2-Hexanone	11.188	43	77845	23.867	ug/l #	51
76) 1,2,3-Trichloropropane	12.829	75	96089	25.459	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	96089	67.399	ug/l #	1

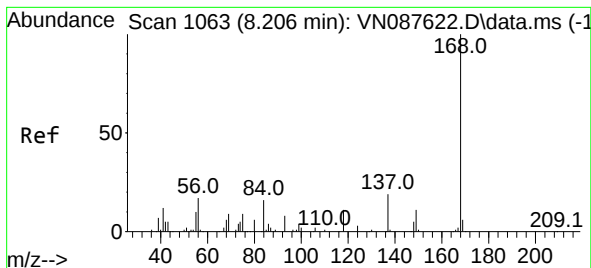
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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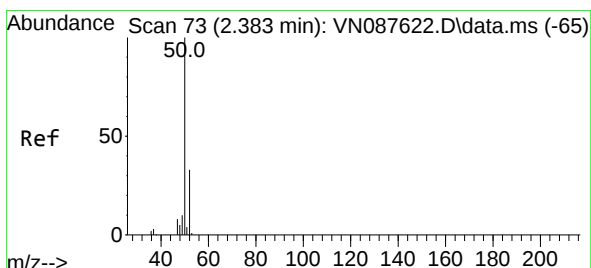
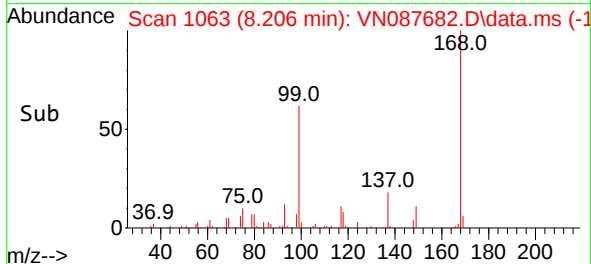
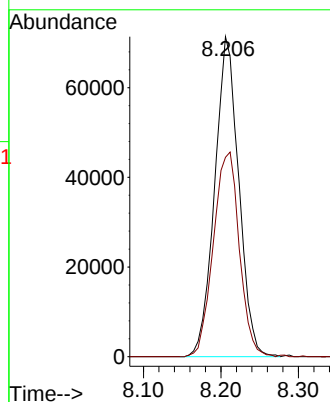
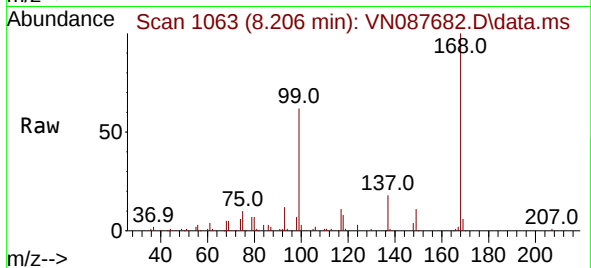




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

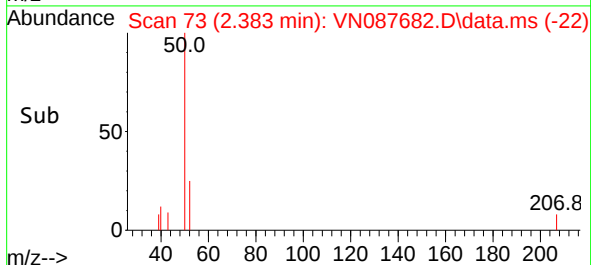
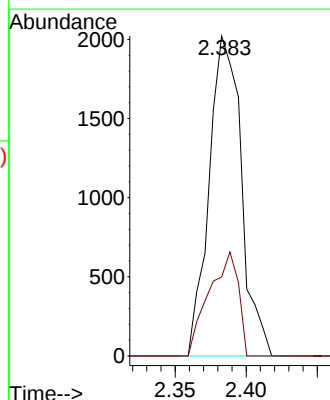
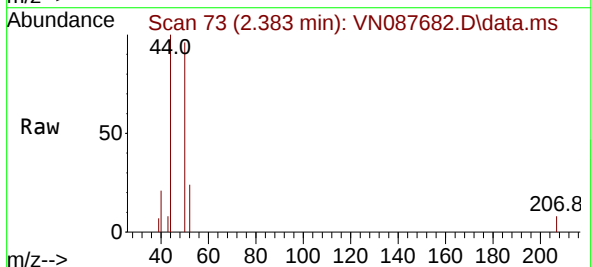
Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

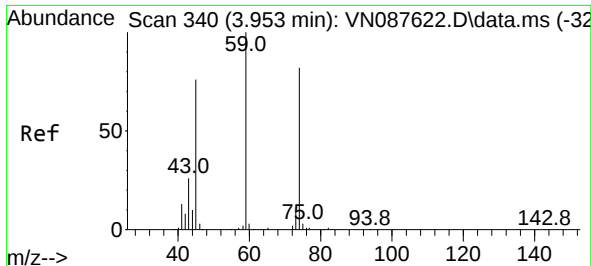
Tgt Ion:168 Resp: 153995
Ion Ratio Lower Upper
168 100
99 62.3 57.2 85.8



#3
Chloromethane
Concen: 1.417 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion: 50 Resp: 3184
Ion Ratio Lower Upper
50 100
52 24.7 26.2 39.4#





#8

Diethyl Ether

Concen: 0.206 ug/l

RT: 3.965 min Scan# 34

Delta R.T. 0.011 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

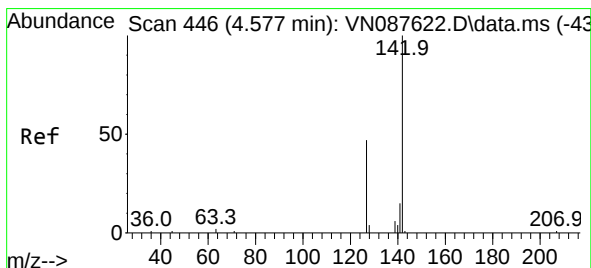
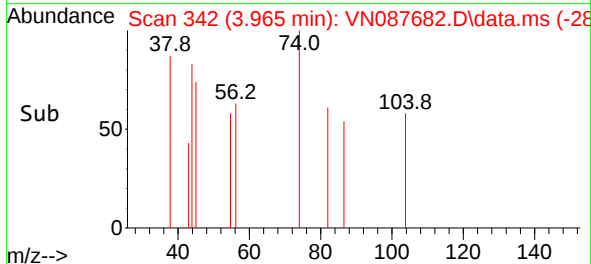
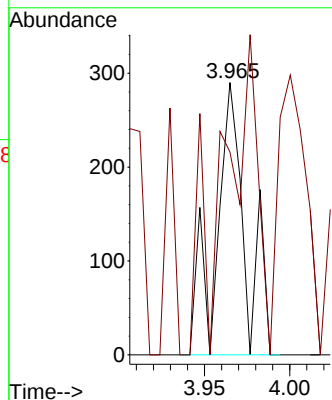
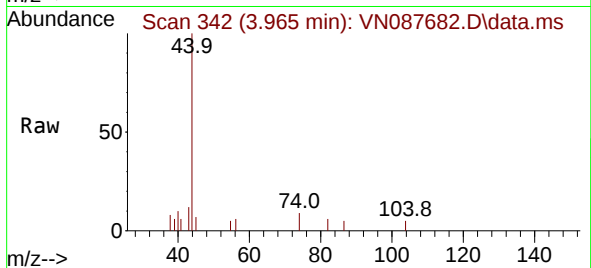
PB169423TB

Tgt Ion: 74 Resp: 342

Ion Ratio Lower Upper

74 100

45 115.5 50.6 151.9



#10

Methyl Iodide

Concen: 6.911 ug/l

RT: 4.606 min Scan# 451

Delta R.T. 0.029 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

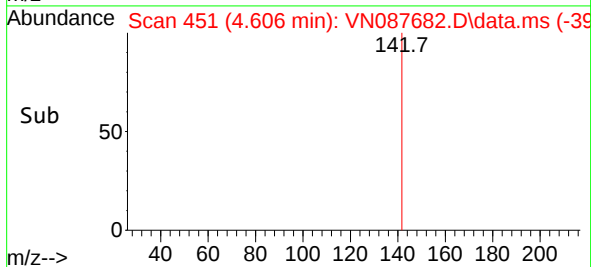
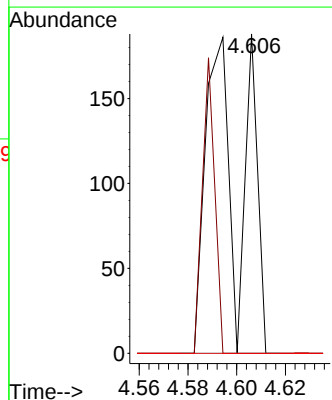
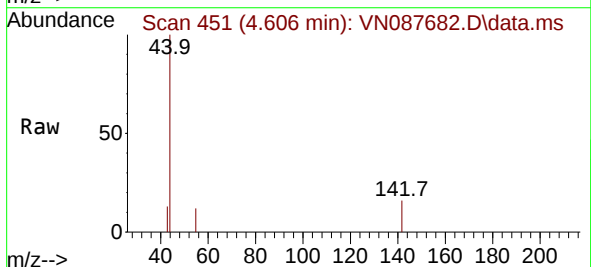
Tgt Ion: 142 Resp: 188

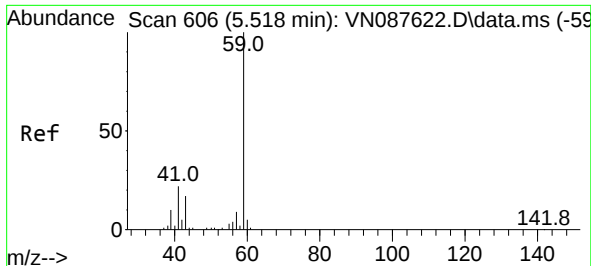
Ion Ratio Lower Upper

142 100

127 0.0 38.0 57.0#

141 0.0 12.0 18.0#

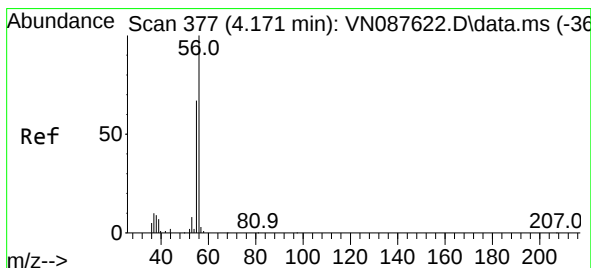
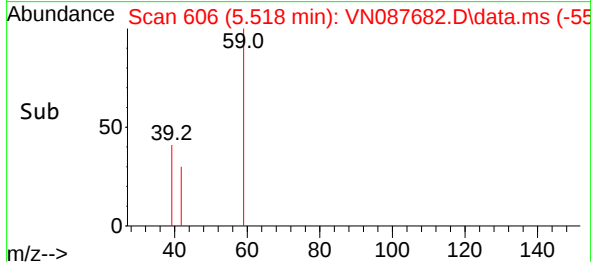
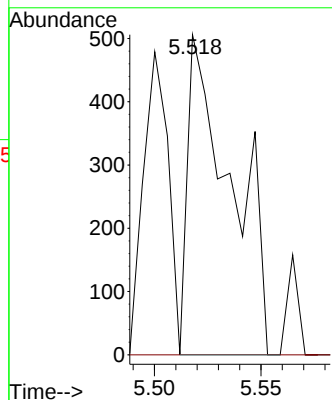
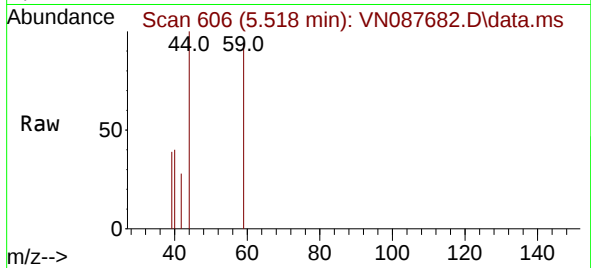




#11
Tert butyl alcohol
Concen: 1.304 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

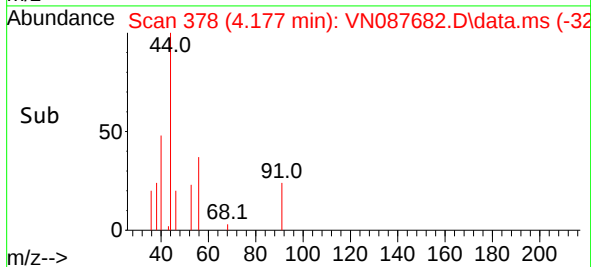
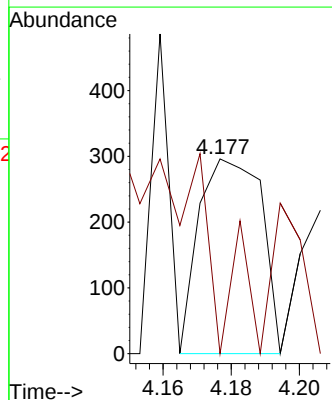
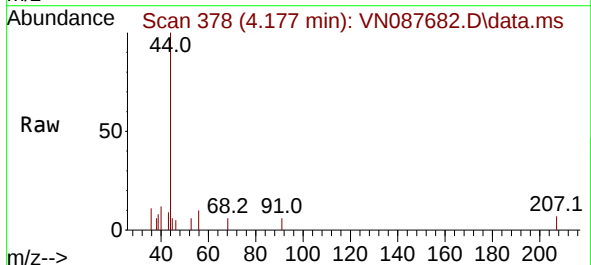
Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

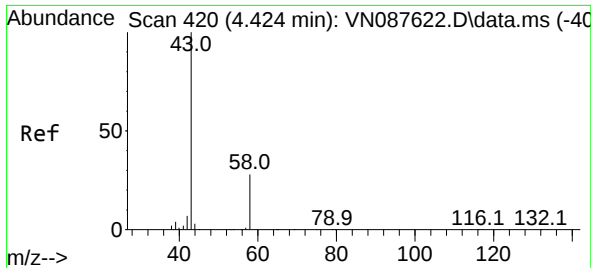
Tgt Ion: 59 Resp: 714
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.561 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion: 56 Resp: 378
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#

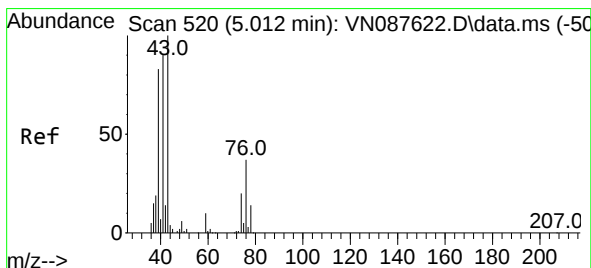
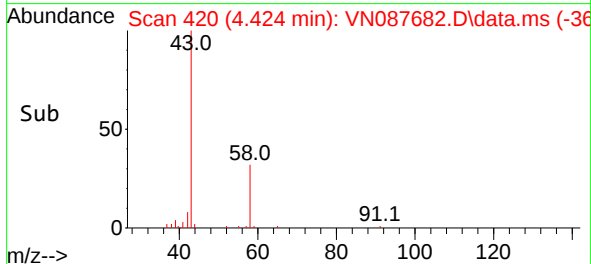
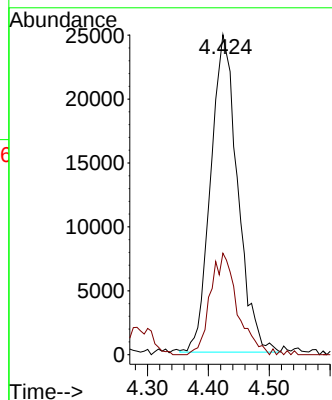
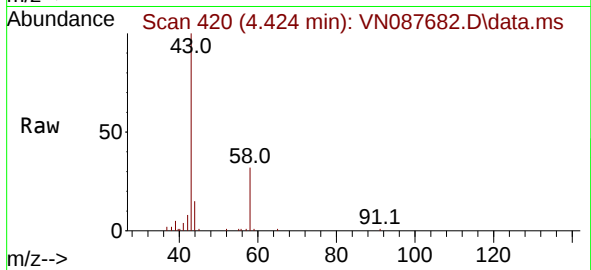




#16
Acetone
Concen: 44.467 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

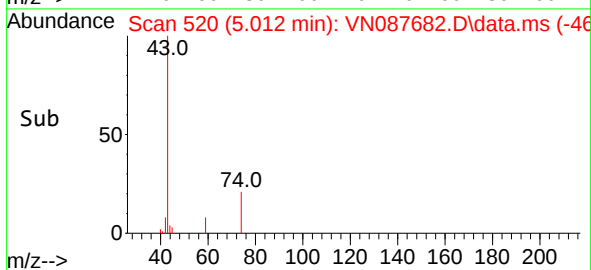
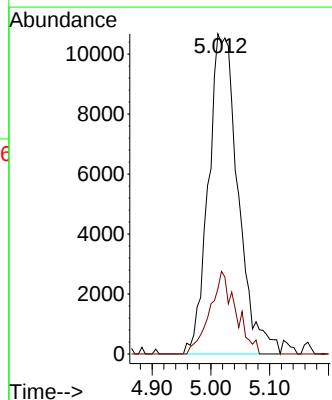
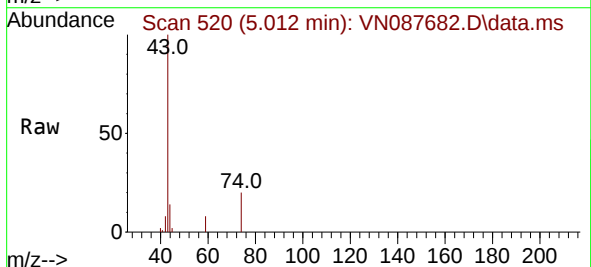
Instrument :
MSVOA_N
ClientSampleId :
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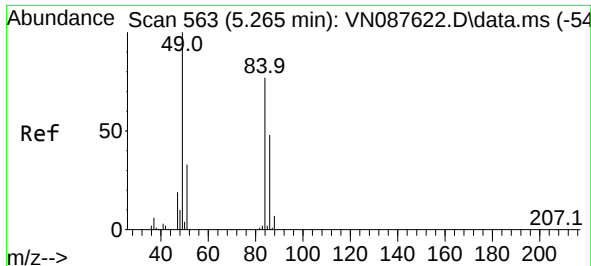
Tgt Ion: 43 Resp: 76375
Ion Ratio Lower Upper
43 100
58 32.0 22.6 33.8



#18
Methyl Acetate
Concen: 10.412 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion: 43 Resp: 37443
Ion Ratio Lower Upper
43 100
74 22.7 17.6 26.4

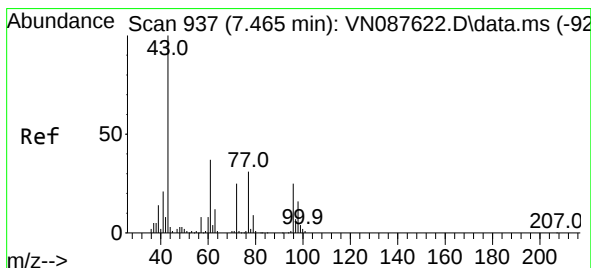
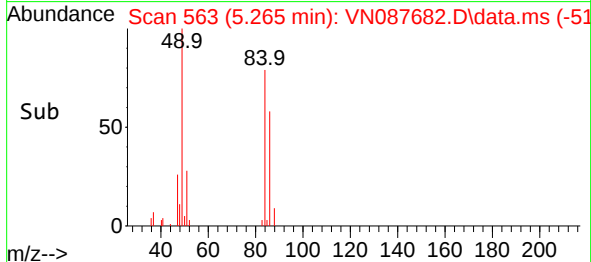
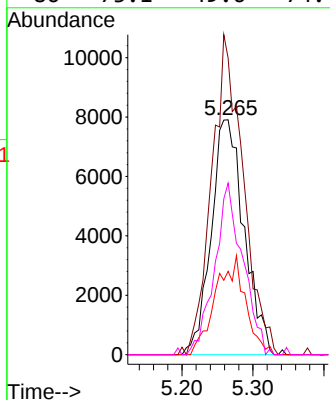
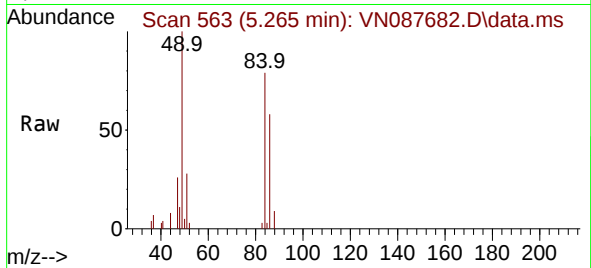




#20
Methylene Chloride
Concen: 9.216 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

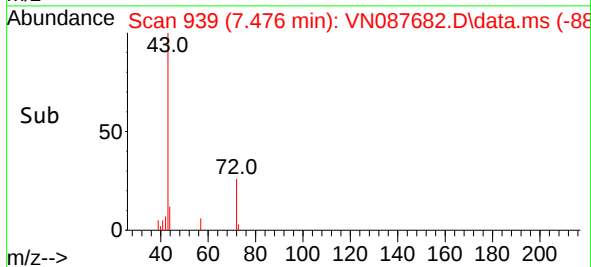
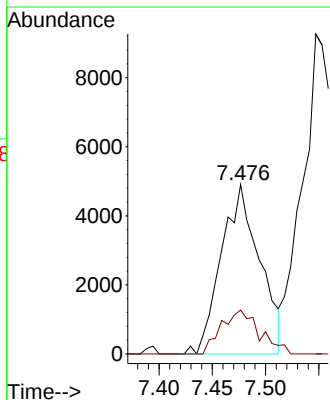
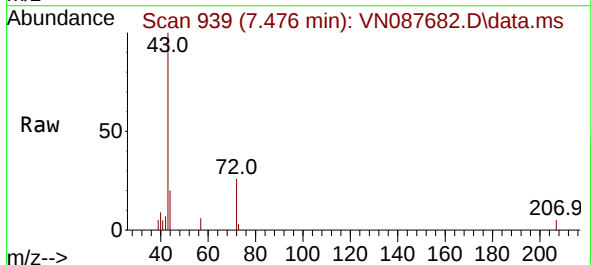
Instrument :
MSVOA_N
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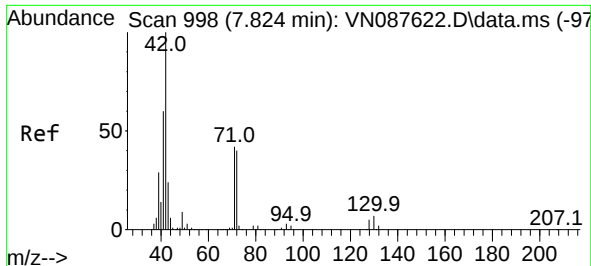
Tgt Ion:	84	Resp:	25411
Ion	Ratio	Lower	Upper
84	100		
49	126.3	103.4	155.2
51	35.5	33.8	50.8
86	73.1	49.6	74.4



#25
2-Butanone
Concen: 5.437 ug/l
RT: 7.476 min Scan# 939
Delta R.T. 0.011 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion:	43	Resp:	12285
Ion	Ratio	Lower	Upper
43	100		
72	25.9	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.973 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.029 min

Lab File: VN087682.D

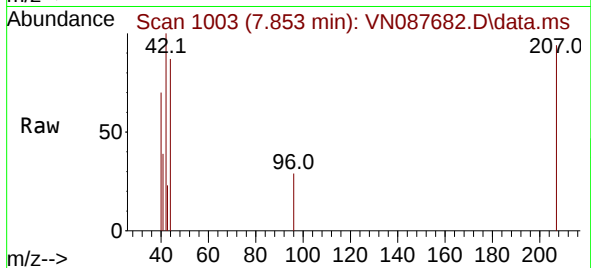
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Instrument :

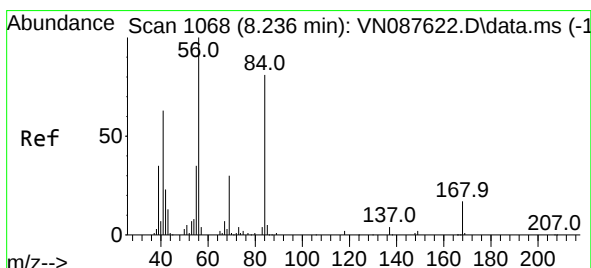
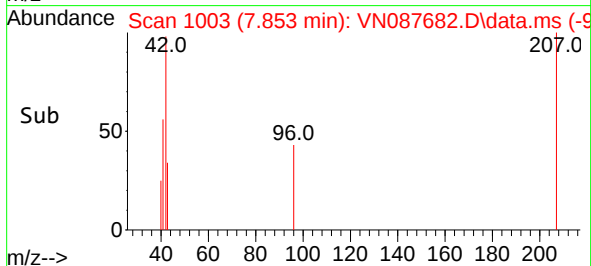
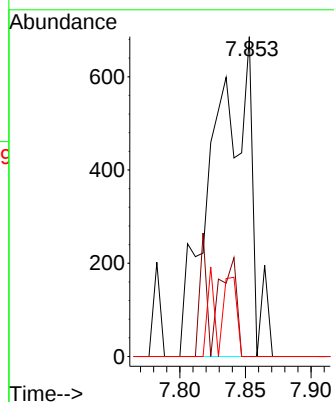
MSVOA_N

ClientSampleId :

PB169423TB



Tgt Ion:	42	Resp:	1415
Ion Ratio	Lower	Upper	
42	100		
72	13.4	33.7	50.5#
71	8.4	31.9	47.9#



#31

Cyclohexane

Concen: 1.181 ug/l

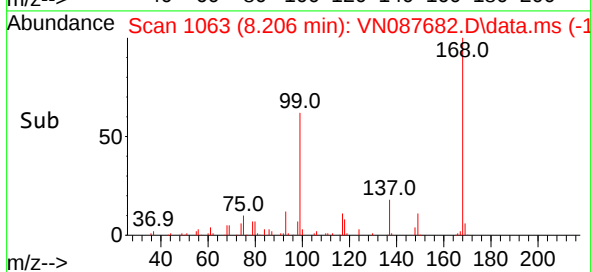
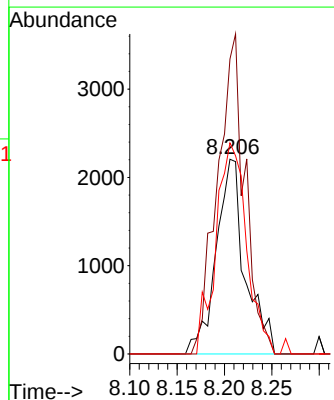
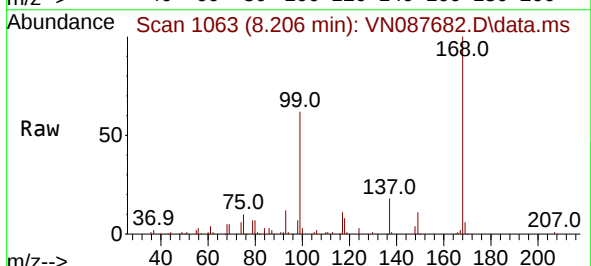
RT: 8.206 min Scan# 1063

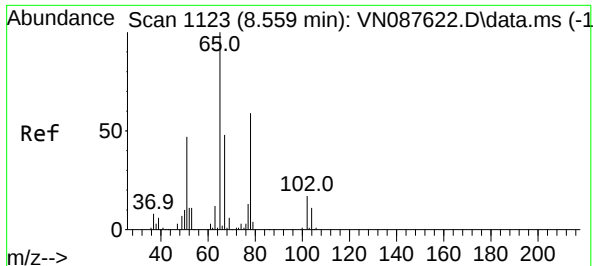
Delta R.T. -0.030 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

Tgt Ion:	56	Resp:	4686
Ion Ratio	Lower	Upper	
56	100		
69	151.4	23.7	35.5#
84	108.3	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 56.449 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

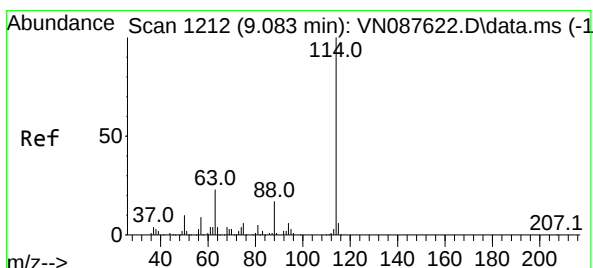
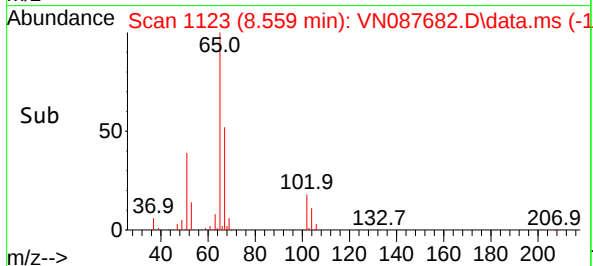
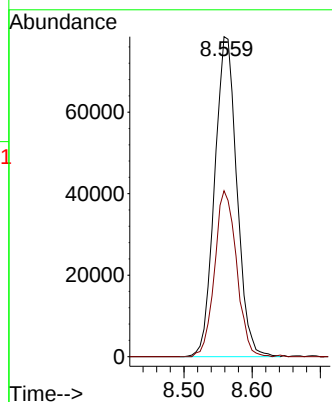
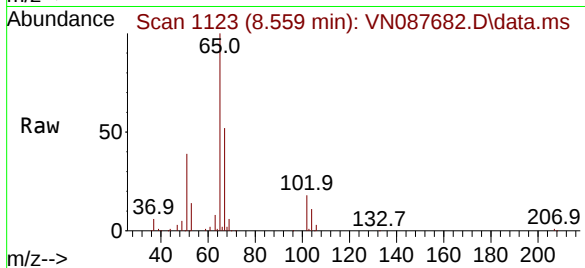
PB169423TB

Tgt Ion: 65 Resp: 178106

Ion Ratio Lower Upper

65 100

67 51.2 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

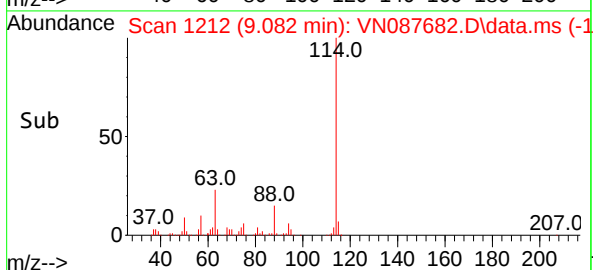
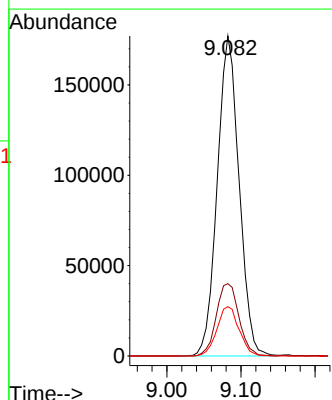
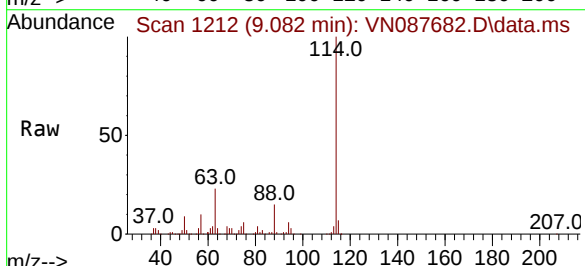
Tgt Ion: 114 Resp: 361978

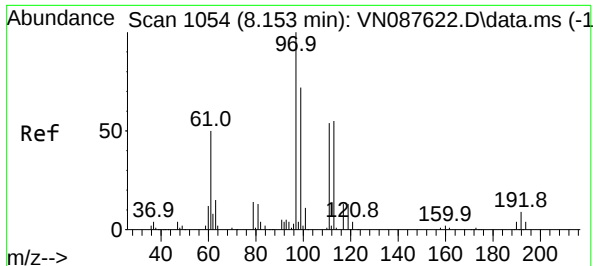
Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.2

88 15.4 0.0 33.4

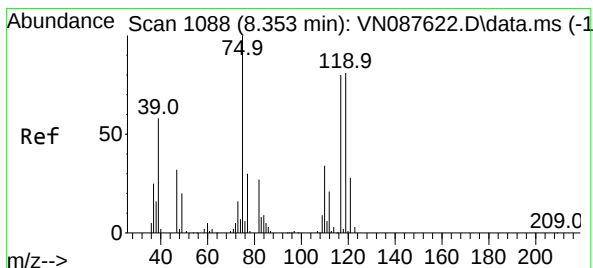
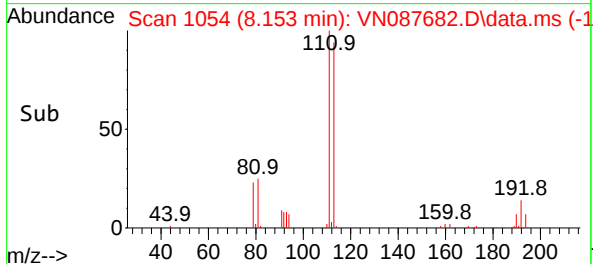
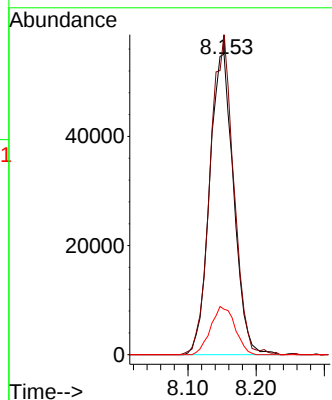
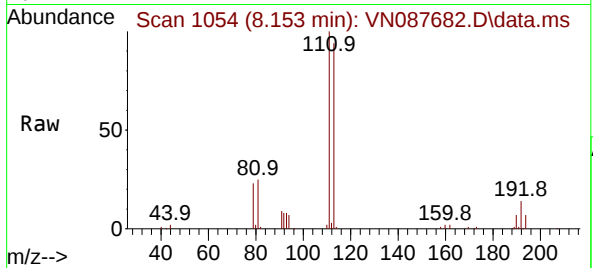




#35
Dibromofluoromethane
Concen: 51.945 ug/l
RT: 8.153 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

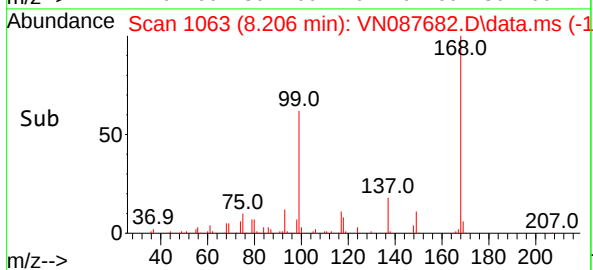
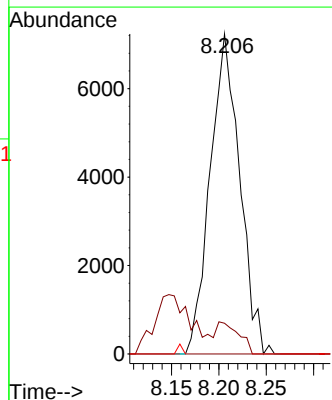
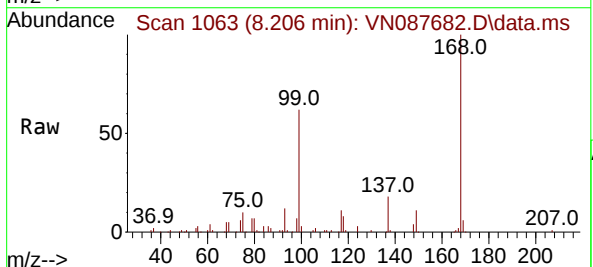
Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

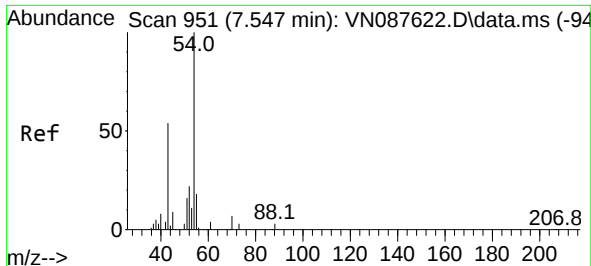
Tgt Ion:113 Resp: 135757
Ion Ratio Lower Upper
113 100
111 103.9 82.8 124.2
192 16.1 12.8 19.2



#36
1,1-Dichloropropene
Concen: 3.919 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

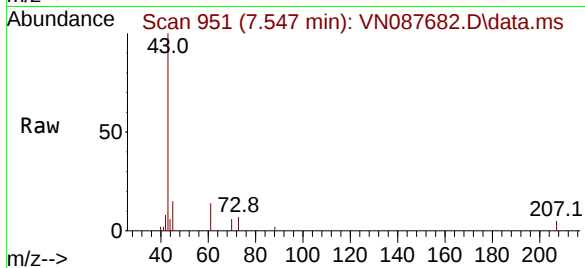
Tgt Ion: 75 Resp: 15711
Ion Ratio Lower Upper
75 100
110 7.4 15.9 47.6#
77 0.0 24.4 36.6#



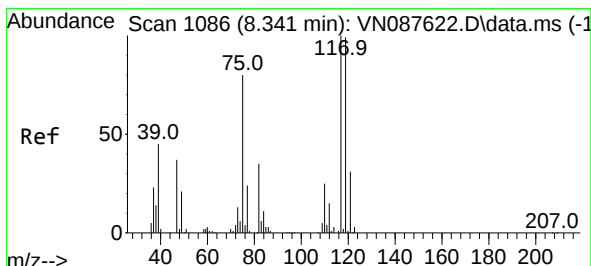
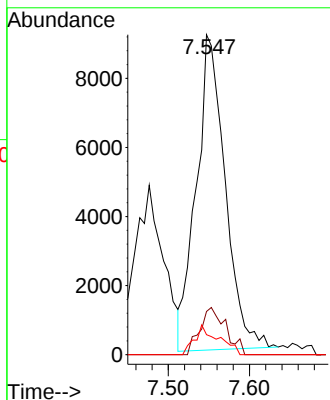
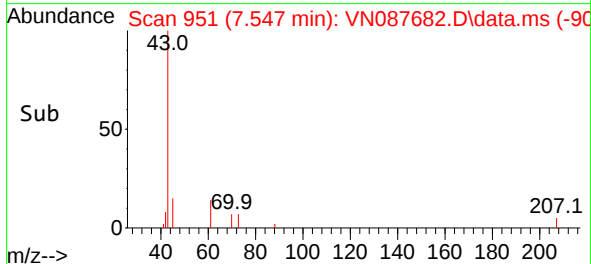


#37
Ethyl Acetate
Concen: 4.117 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

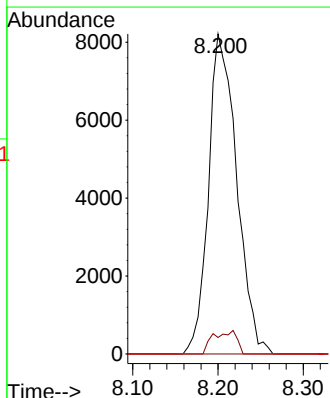
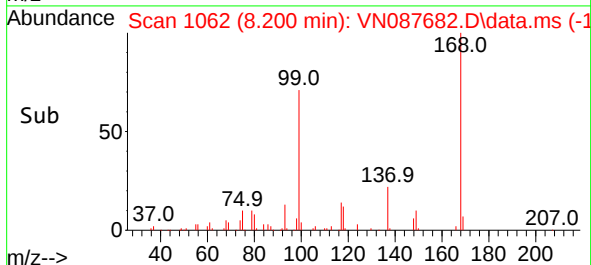
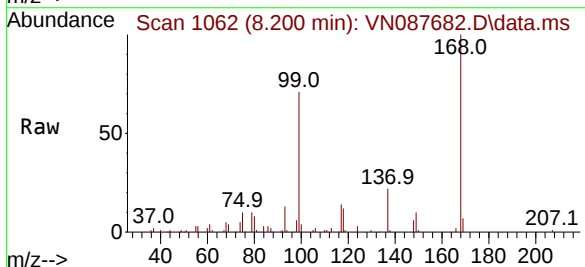


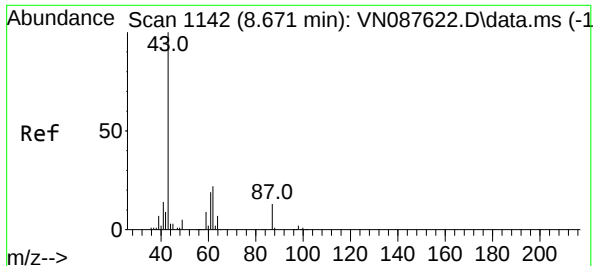
Tgt Ion:	43	Resp:	22555
Ion	Ratio	Lower	Upper
43	100		
61	13.4	9.3	13.9
70	7.7	7.0	10.6



#38
Carbon Tetrachloride
Concen: 4.775 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.141 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion:	117	Resp:	18902
Ion	Ratio	Lower	Upper
117	100		
119	5.1	79.0	118.6#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 1.818 ug/l

RT: 8.676 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN087682.D

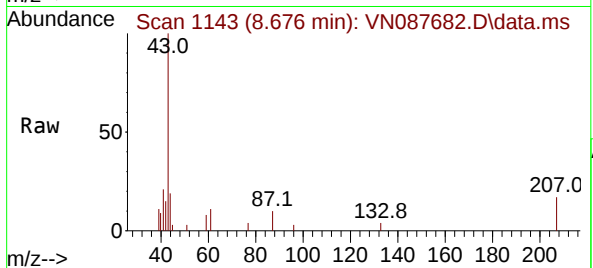
Acq: 28 Aug 2025 14:05

Instrument :

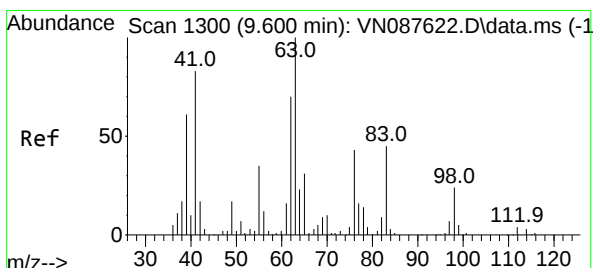
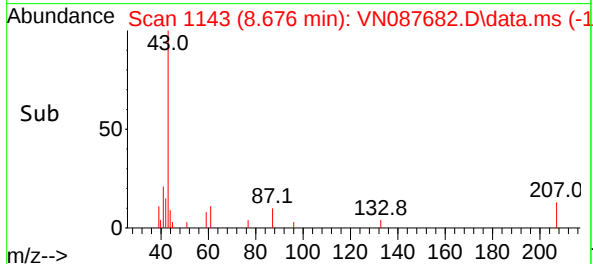
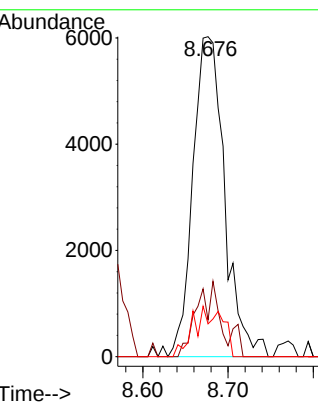
MSVOA_N

ClientSampleId :

PB169423TB



Tgt Ion:	43	Resp:	15554
Ion	Ratio	Lower	Upper
43	100		
61	9.5	18.8	28.2#
87	9.5	9.6	14.4#



#45

1,2-Dichloropropane

Concen: 0.574 ug/l

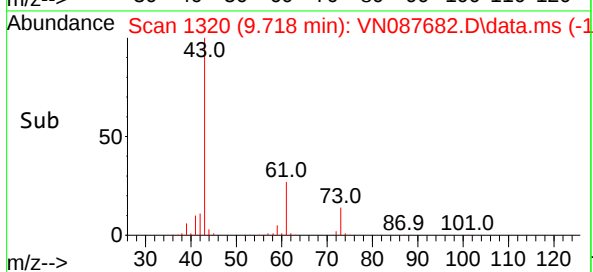
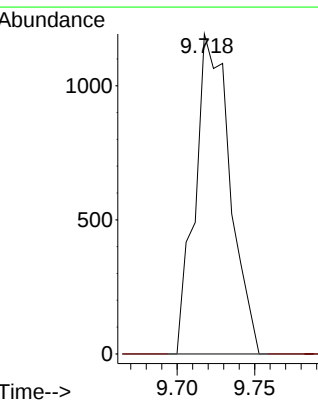
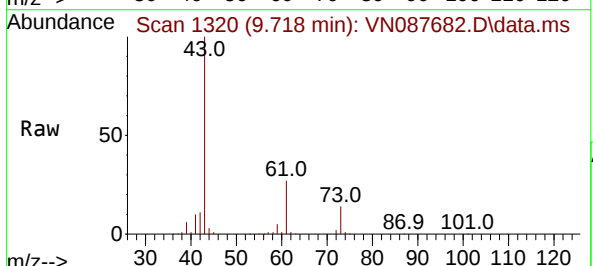
RT: 9.718 min Scan# 1320

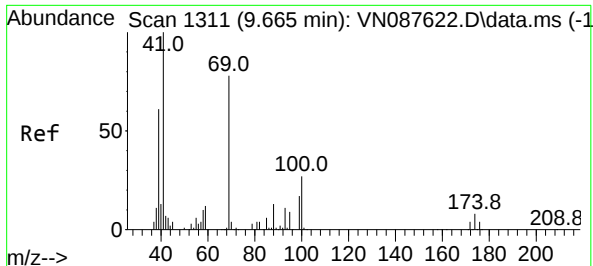
Delta R.T. 0.117 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

Tgt Ion:	63	Resp:	1861
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#





#48

Methyl methacrylate

Concen: 33.864 ug/l

RT: 9.723 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB169423TB

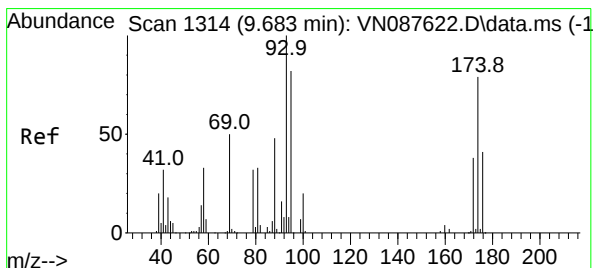
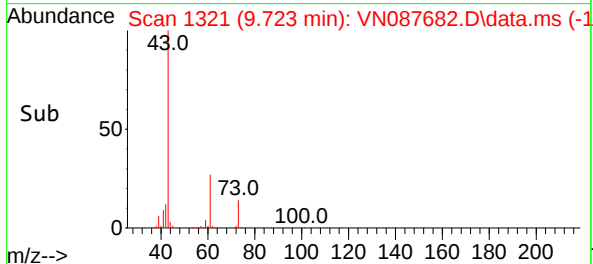
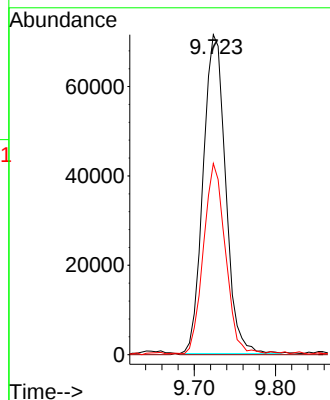
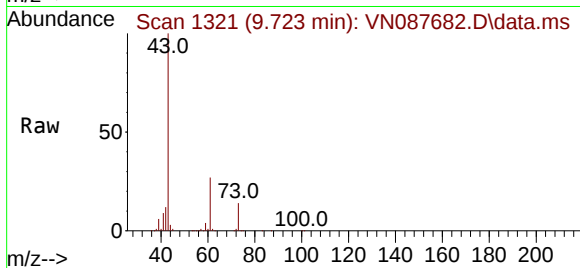
Tgt Ion: 41 Resp: 137014

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 57.8 52.9 79.3



#49

1,4-Dioxane

Concen: 2.555 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.053 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

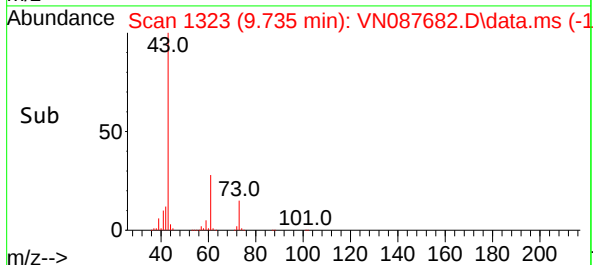
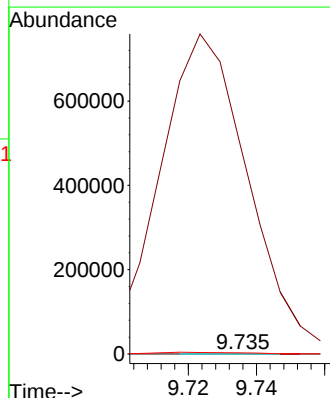
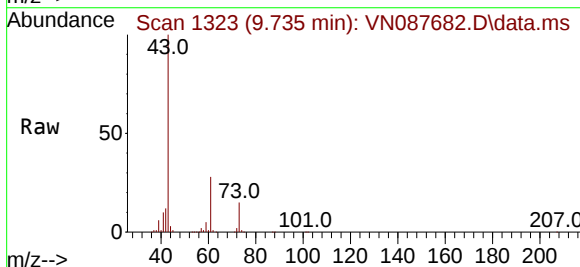
Tgt Ion: 88 Resp: 134

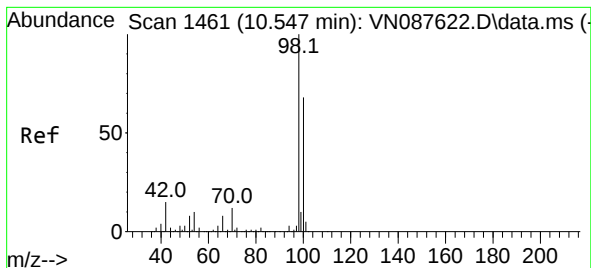
Ion Ratio Lower Upper

88 100

43 1048941.8 0.0 0.0#

58 5732.1 57.9 86.9#





#50

Toluene-d8

Concen: 49.036 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087682.D

Acq: 28 Aug 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

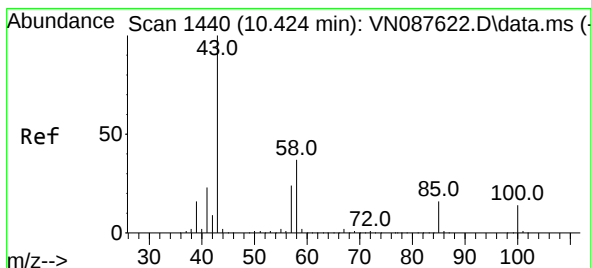
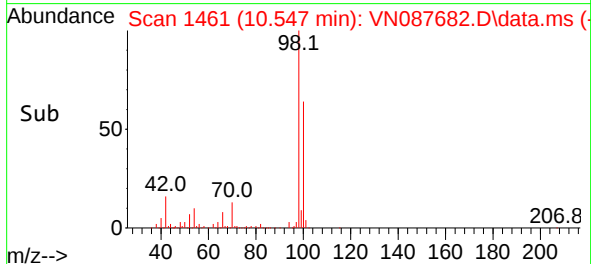
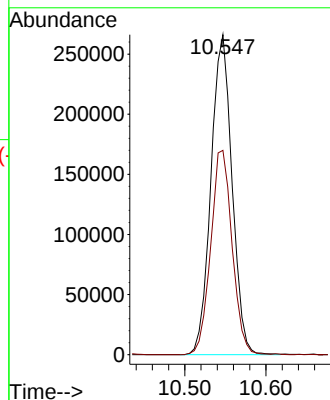
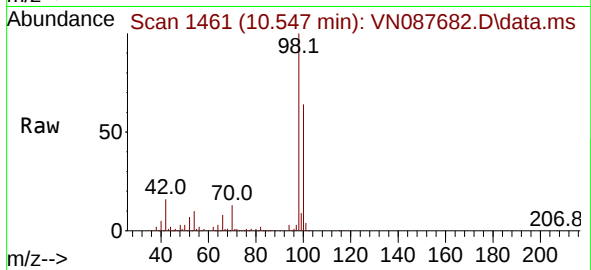
PB169423TB

Tgt Ion: 98 Resp: 479662

Ion Ratio Lower Upper

98 100

100 64.9 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 1.587 ug/l

RT: 10.429 min Scan# 1441

Delta R.T. 0.006 min

Lab File: VN087682.D

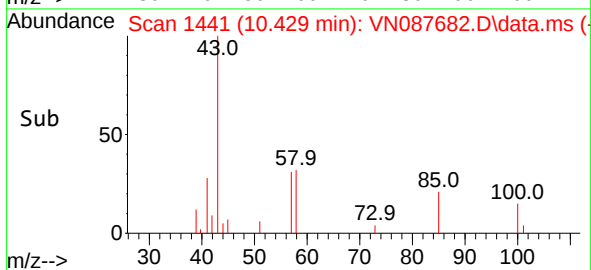
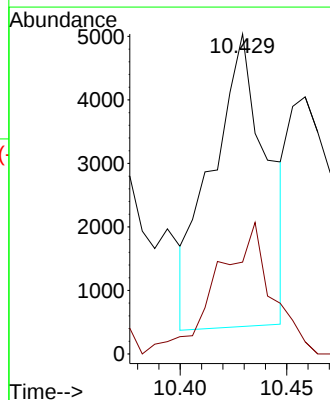
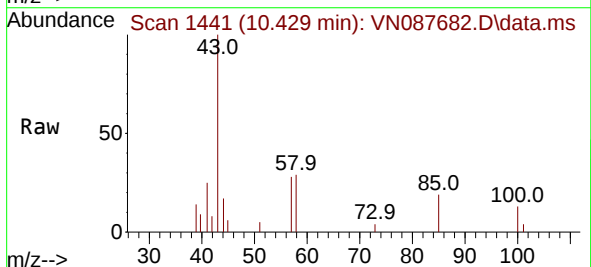
Acq: 28 Aug 2025 14:05

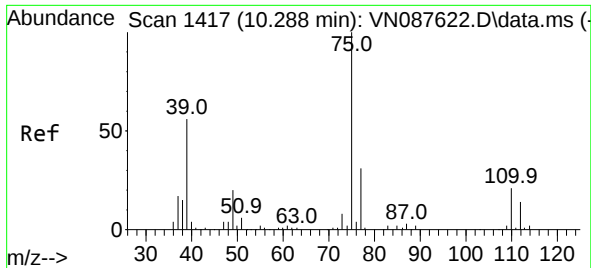
Tgt Ion: 43 Resp: 8191

Ion Ratio Lower Upper

43 100

58 44.3 29.6 44.4

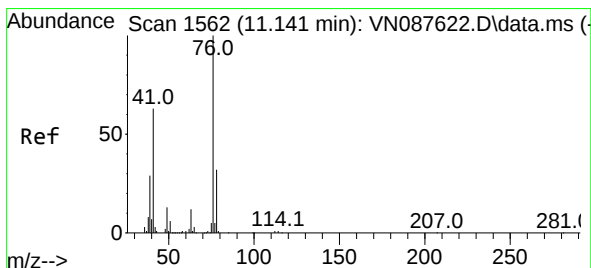
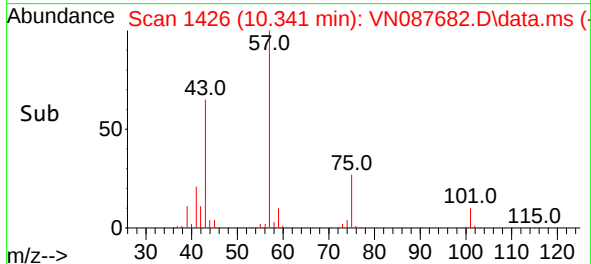
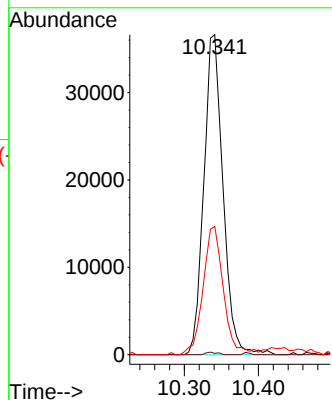
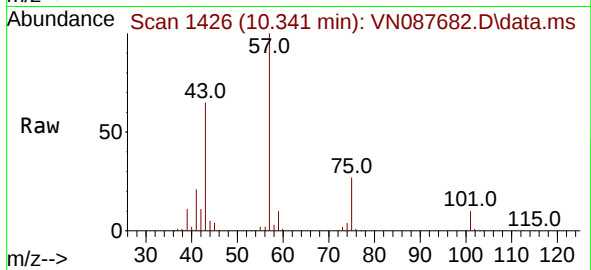




#54
cis-1,3-Dichloropropene
Concen: 12.944 ug/l
RT: 10.341 min Scan# 1417
Delta R.T. 0.053 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

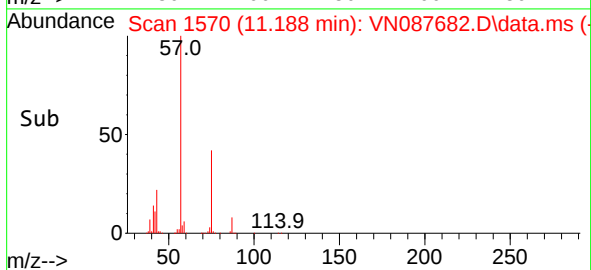
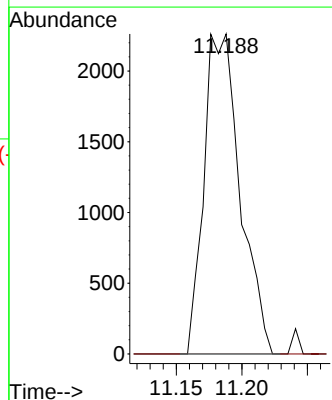
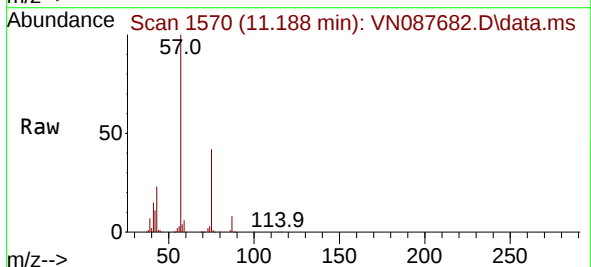
Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

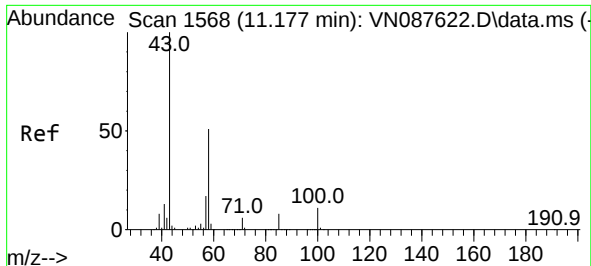
Tgt Ion: 75 Resp: 65770
Ion Ratio Lower Upper
75 100
77 0.4 24.6 37.0#
39 40.0 45.2 67.8#



#57
1,3-Dichloropropane
Concen: 0.832 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion: 76 Resp: 4341
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

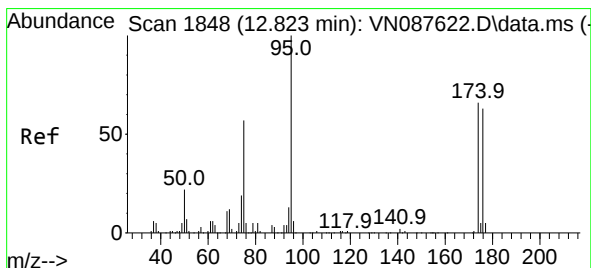
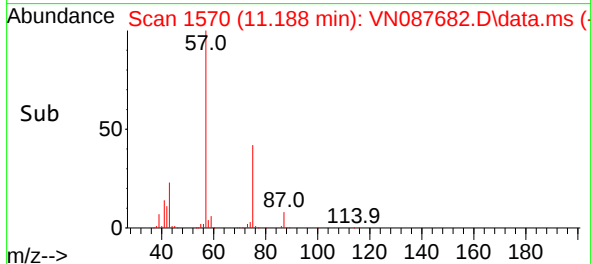
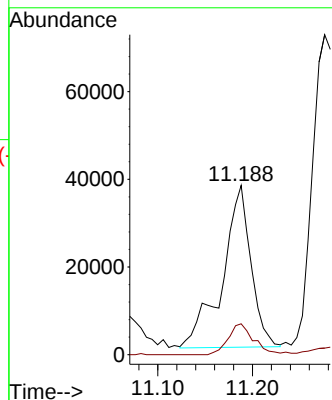
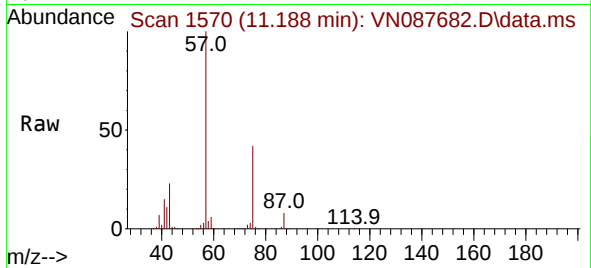




#59
2-Hexanone
Concen: 23.867 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

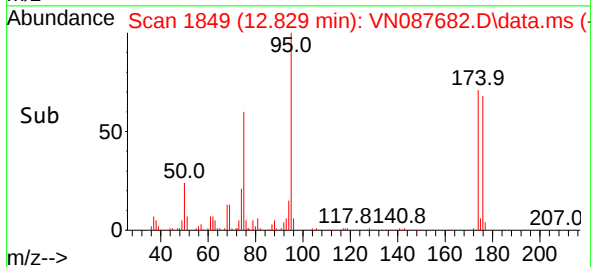
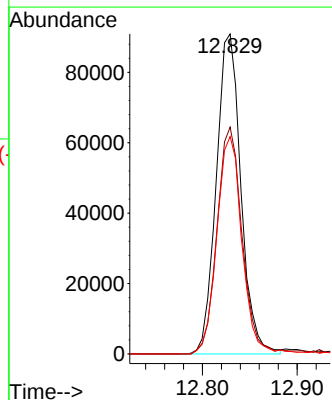
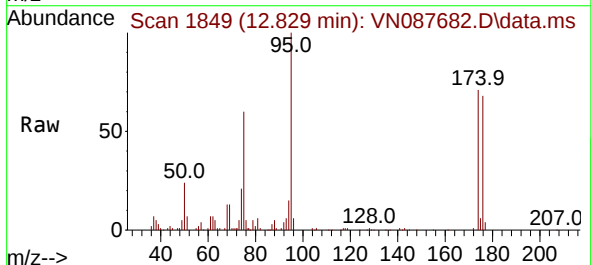
Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

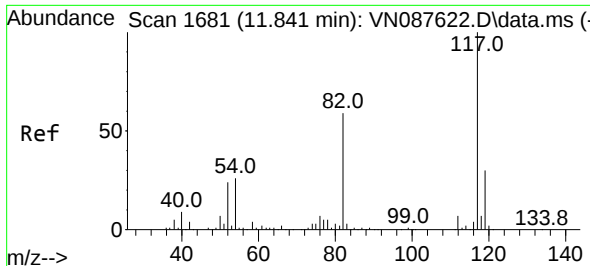
Tgt Ion: 43 Resp: 77845
Ion Ratio Lower Upper
43 100
58 17.4 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.266 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion: 95 Resp: 164425
Ion Ratio Lower Upper
95 100
174 72.9 0.0 138.4
176 69.3 0.0 132.6

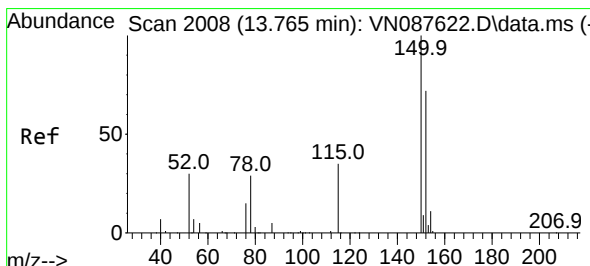
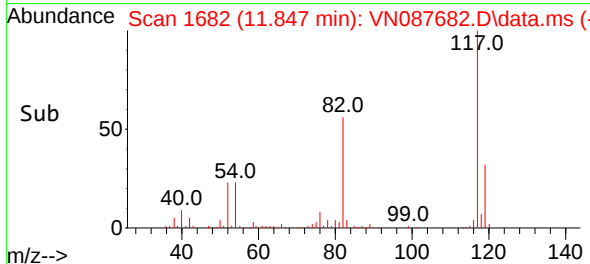
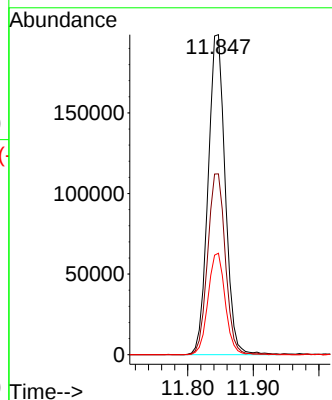
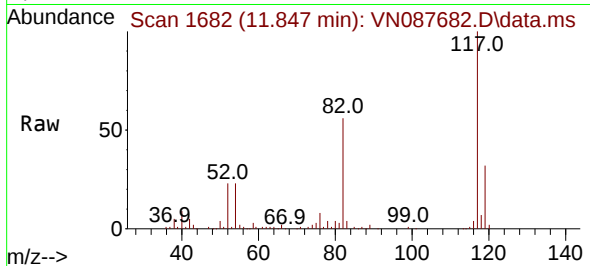




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

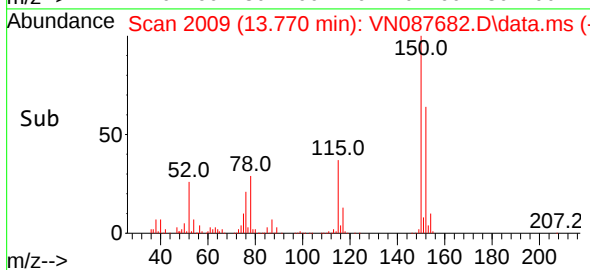
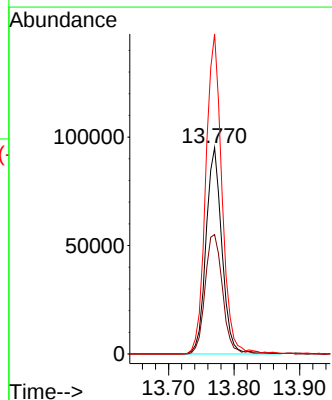
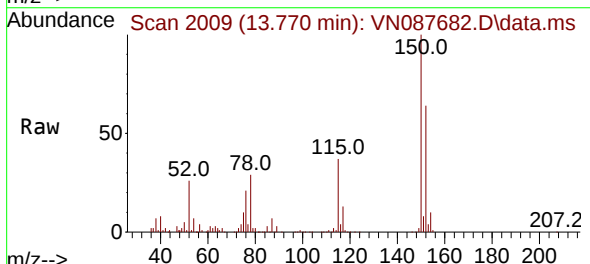
Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

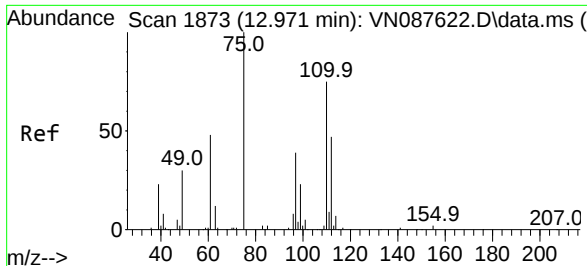
Tgt Ion:117 Resp: 361531
Ion Ratio Lower Upper
117 100
82 56.5 47.4 71.2
119 31.7 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion:152 Resp: 160948
Ion Ratio Lower Upper
152 100
115 63.4 32.3 96.8
150 157.0 0.0 351.0

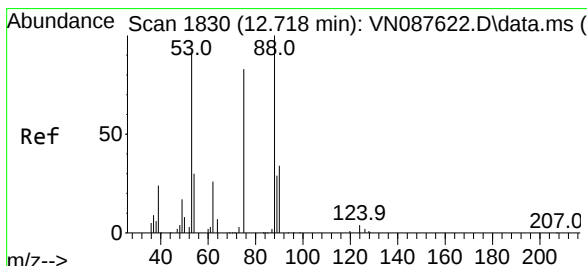
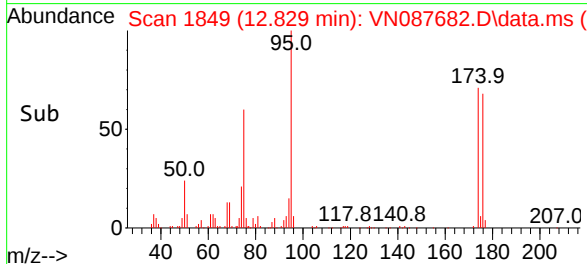
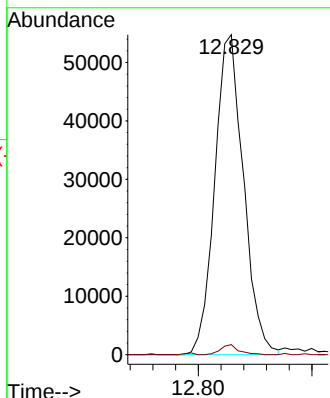
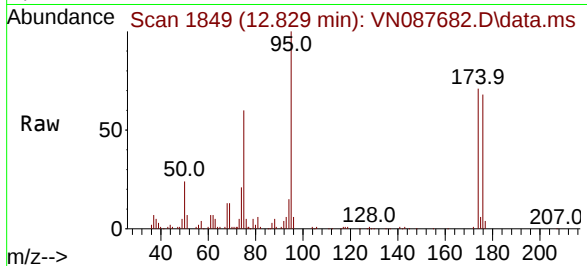




#76
1,2,3-Trichloropropane
Concen: 25.459 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Instrument :
MSVOA_N
ClientSampleId :
PB169423TB

Tgt Ion: 75 Resp: 96089
Ion Ratio Lower Upper
75 100
77 2.0 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.399 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.111 min
Lab File: VN087682.D
Acq: 28 Aug 2025 14:05

Tgt Ion: 75 Resp: 96089
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.3 35.6 53.4#

