

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100625\
 Data File : VV039273.D
 Acq On : 06 Oct 2025 15:03
 Operator : SY/MD
 Sample : PB169972TB
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PB169972TB

Quant Time: Oct 07 03:35:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

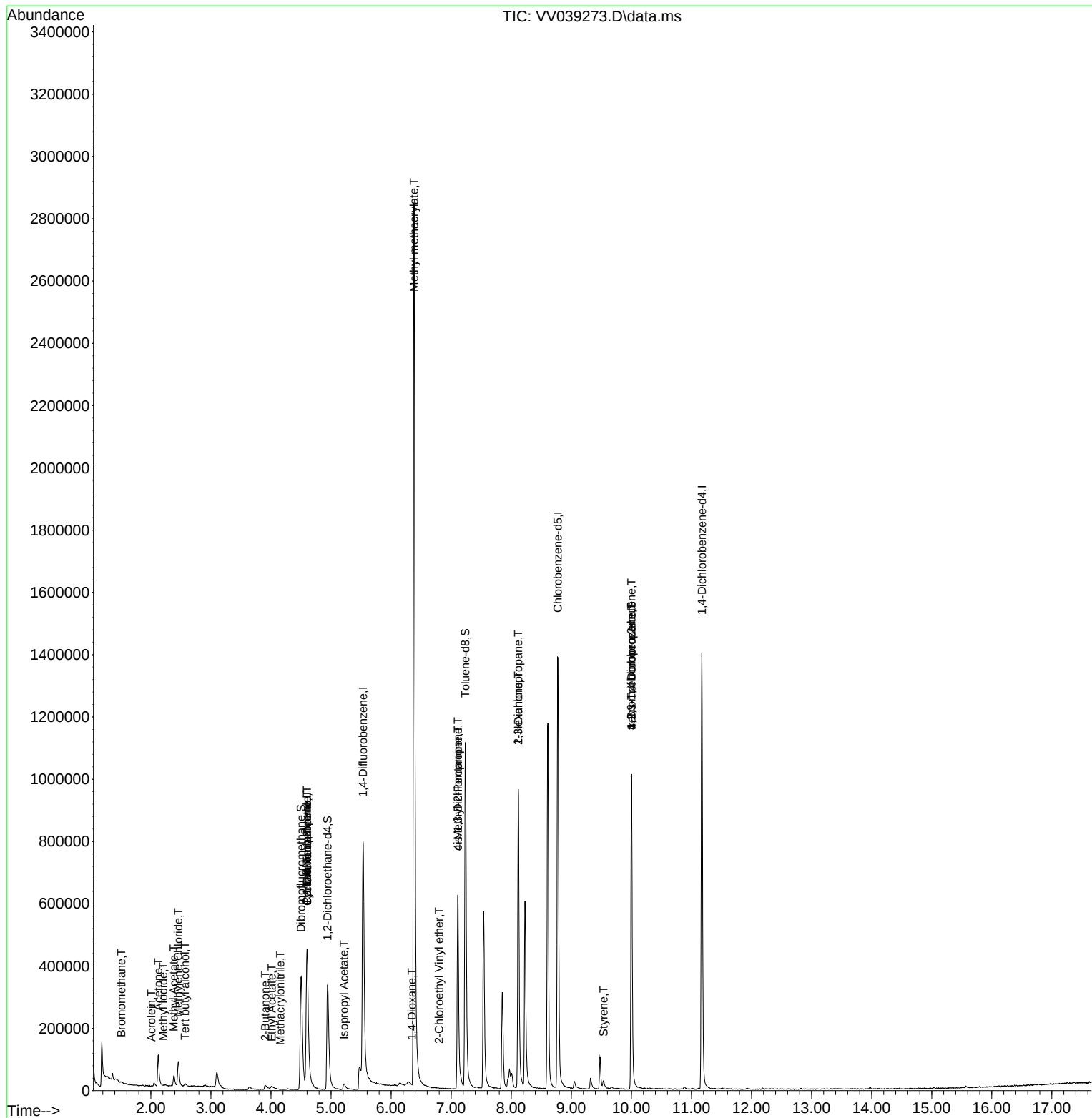
Internal Standards						
1) Pentafluorobenzene	4.600	168	395082	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	720678	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	799081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	377415	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	307185	53.722	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 107.440%			
35) Dibromofluoromethane	4.503	113	307790	53.125	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 106.260%			
50) Toluene-d8	7.236	98	803391	47.214	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.420%			
62) 4-Bromofluorobenzene	10.001	95	341508	48.752	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 97.500%			
Target Compounds					Qvalue	
5) Bromomethane	1.507	94	1267	0.280	ug/l #	38
6) Chloroethane	1.806	64	847	Below Cal	#	44
10) Methyl Iodide	2.204	142	2232	0.379	ug/l #	74
11) Tert butyl alcohol	2.568	59	6087	5.037	ug/l #	93
13) Acrolein	2.008	56	515	2.456	ug/l	89
16) Acetone	2.124	43	121916	28.812	ug/l	99
18) Methyl Acetate	2.381	43	47605	5.619	ug/l	97
20) Methylene Chloride	2.458	84	39078	4.449	ug/l	92
25) 2-Butanone	3.905	43	26821	5.858	ug/l	96
31) Cyclohexane	4.603	56	8891	0.872	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	31634	3.611	ug/l #	45
37) Ethyl Acetate	4.011	43	9271	0.872	ug/l #	90
38) Carbon Tetrachloride	4.600	117	39709	3.709	ug/l #	16
41) Methacrylonitrile	4.156	41	46	1.920	ug/l #	1
43) Isopropyl Acetate	5.214	43	28578	1.972	ug/l #	75
48) Methyl methacrylate	6.381	41	255005	38.817	ug/l #	39
49) 1,4-Dioxane	6.346	88	50	0.472	ug/l #	25
51) 4-Methyl-2-Pentanone	7.111	43	239780	25.149	ug/l #	47
54) cis-1,3-Dichloropropene	7.111	75	121079	11.219	ug/l #	64
57) 1,3-Dichloropropane	8.117	76	10476	0.895	ug/l #	45
58) 2-Chloroethyl Vinyl ether	6.799	63	20	9.627	ug/l #	47
59) 2-Hexanone	8.117	43	136543	19.903	ug/l #	58
70) Styrene	9.535	104	155	1.568	ug/l #	70
76) 1,2,3-Trichloropropane	10.001	75	168757	19.639	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	168757	47.146	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.358	75	55	Below Cal	#	5

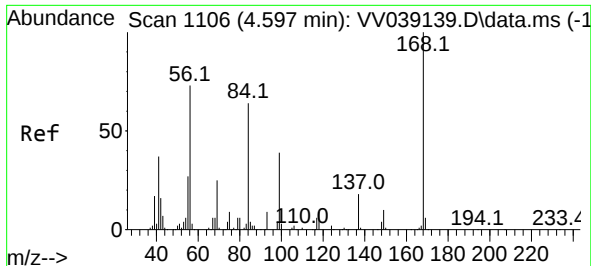
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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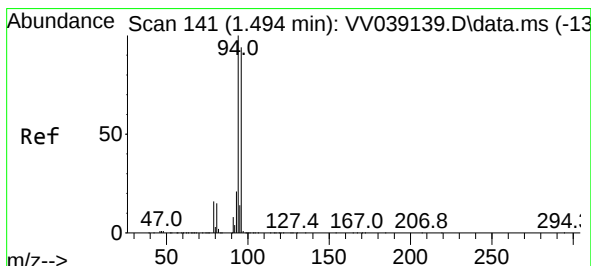
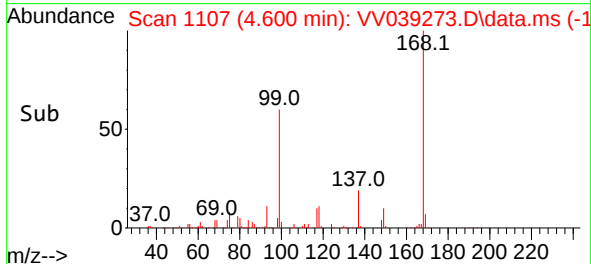
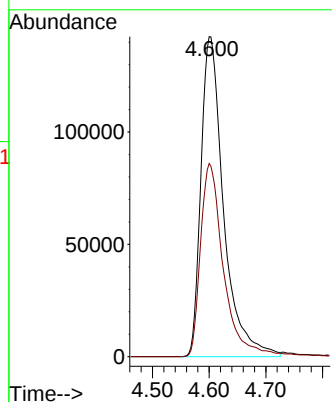
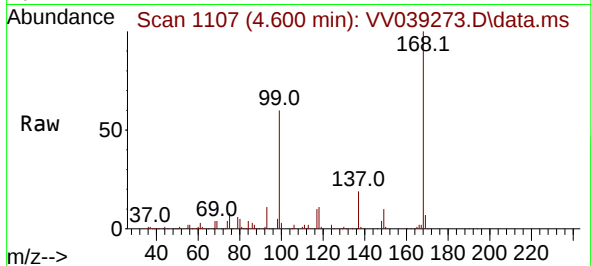




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

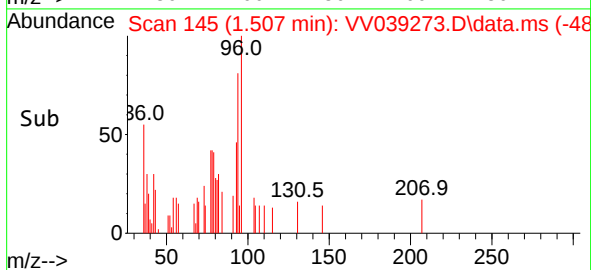
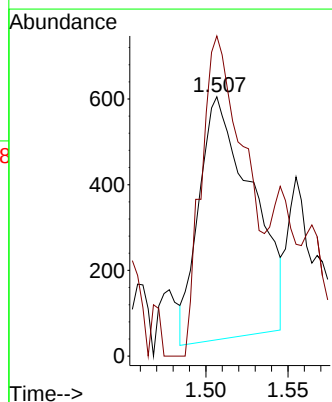
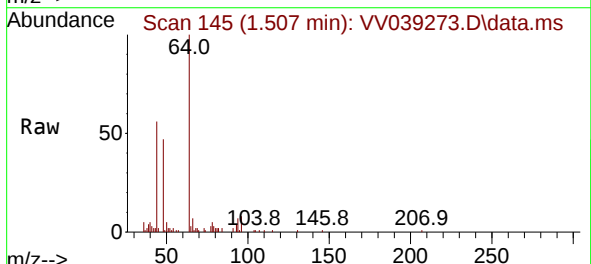
Instrument :
MSVOA_V
ClientSampleId :
PB169972TB

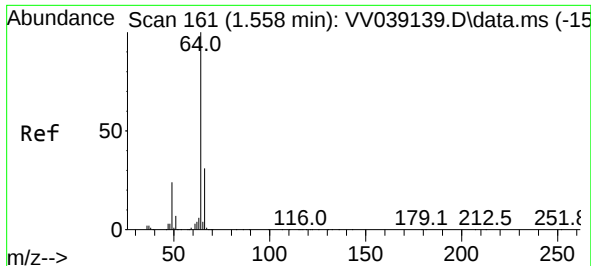
Tgt Ion:168 Resp: 395082
Ion Ratio Lower Upper
168 100
99 60.3 49.6 74.4



#5
Bromomethane
Concen: 0.280 ug/l
RT: 1.507 min Scan# 145
Delta R.T. 0.013 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion: 94 Resp: 1267
Ion Ratio Lower Upper
94 100
96 153.4 74.9 112.3#

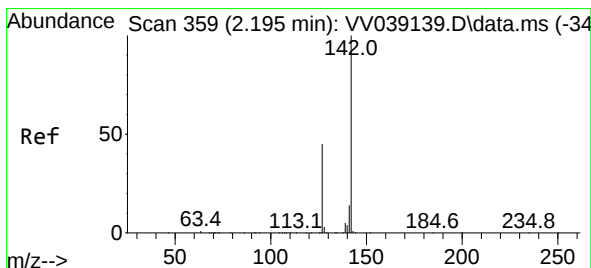
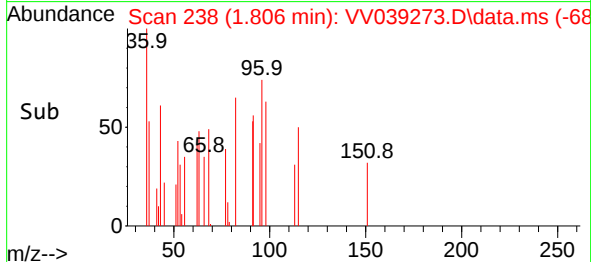
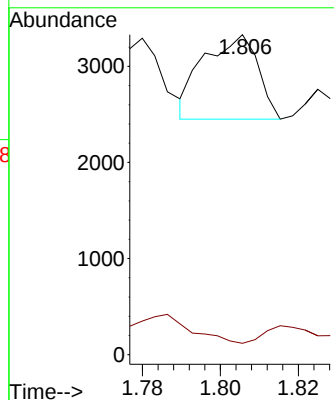
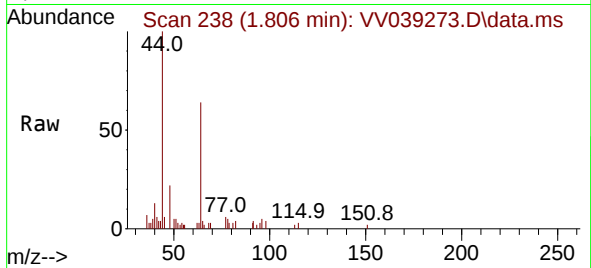




#6
Chloroethane
Concen: Below Cal
RT: 1.806 min Scan# 21
Delta R.T. 0.248 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

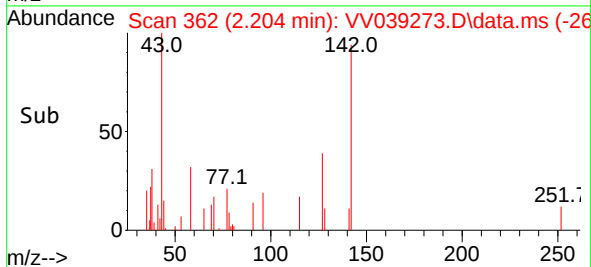
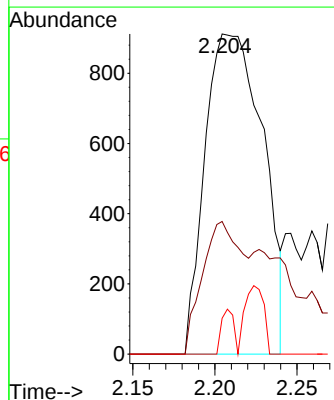
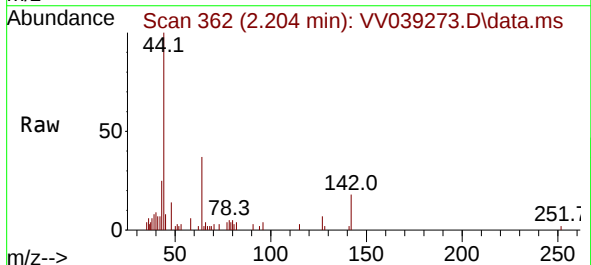
Instrument :
MSVOA_V
ClientSampleId :
PB169972TB

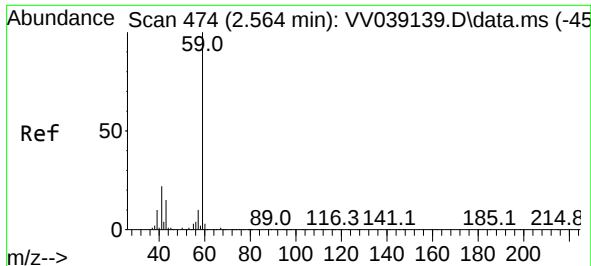
Tgt Ion: 64 Resp: 847
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#10
Methyl Iodide
Concen: 0.379 ug/l
RT: 2.204 min Scan# 362
Delta R.T. 0.010 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion:142 Resp: 2232
Ion Ratio Lower Upper
142 100
127 28.9 36.3 54.5#
141 3.0 11.2 16.8#

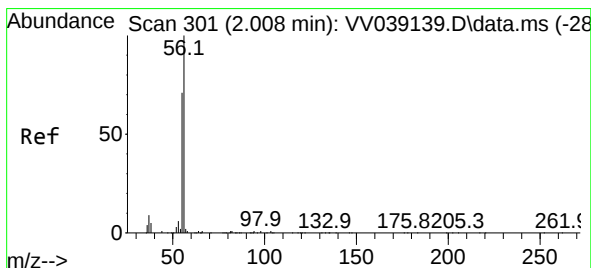
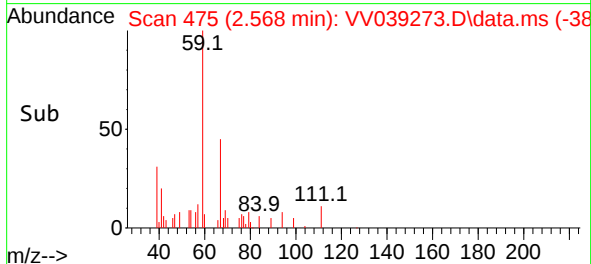
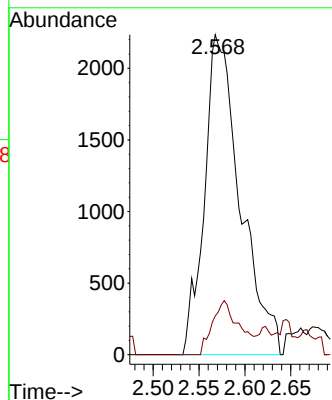
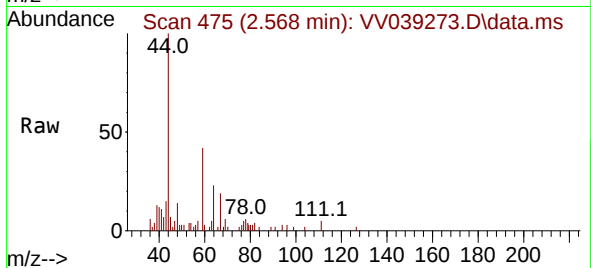




#11
Tert butyl alcohol
Concen: 5.037 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

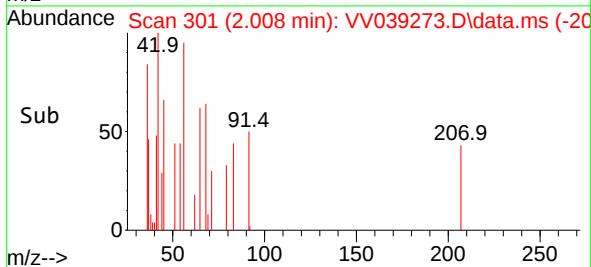
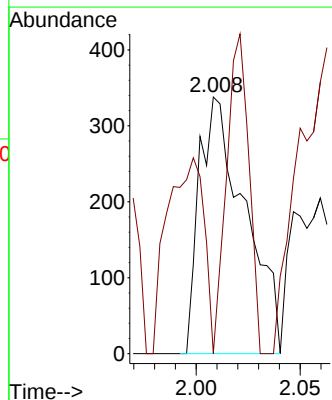
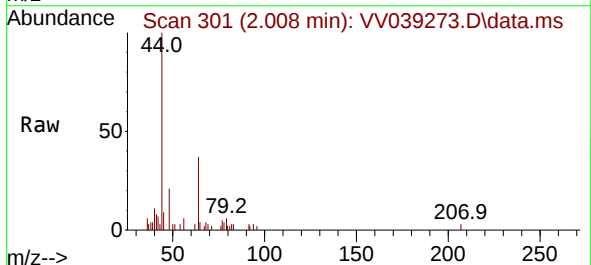
Instrument :
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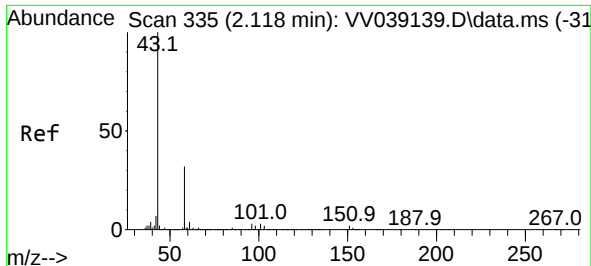
Tgt Ion: 59 Resp: 6087
Ion Ratio Lower Upper
59 100
57 12.5 7.8 11.8#



#13
Acrolein
Concen: 2.456 ug/l
RT: 2.008 min Scan# 301
Delta R.T. 0.000 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion: 56 Resp: 515
Ion Ratio Lower Upper
56 100
55 61.2 56.2 84.4

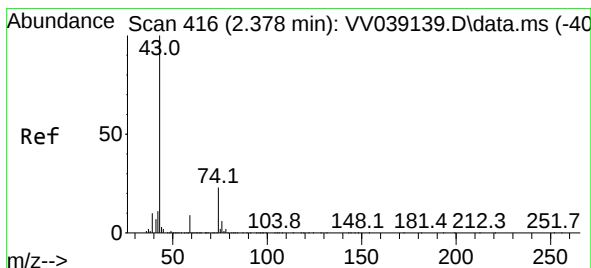
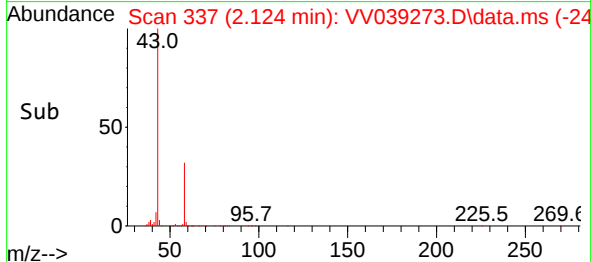
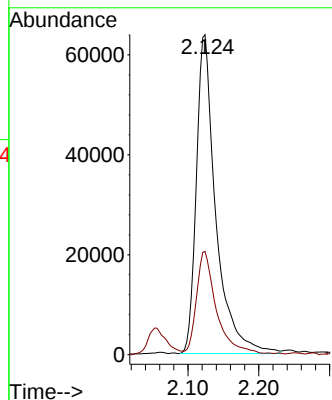
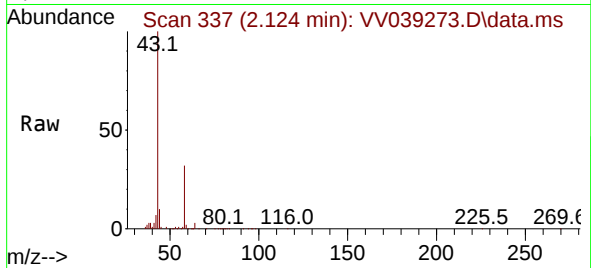




#16
Acetone
Concen: 28.812 ug/l
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

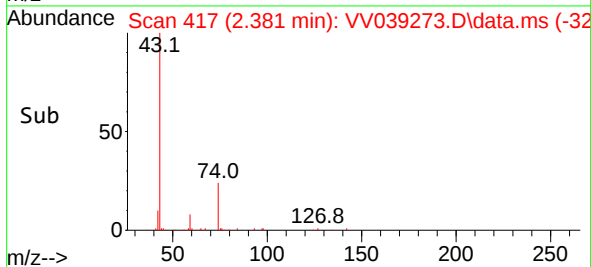
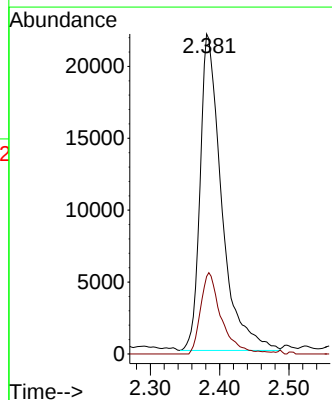
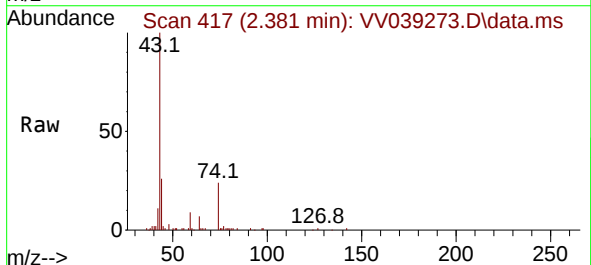
Instrument :
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ClientSampleId :
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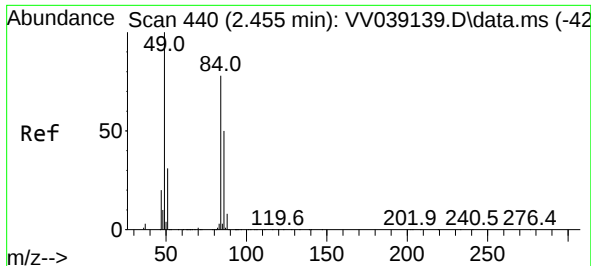
Tgt Ion: 43 Resp: 121916
Ion Ratio Lower Upper
43 100
58 31.9 25.8 38.6



#18
Methyl Acetate
Concen: 5.619 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion: 43 Resp: 47605
Ion Ratio Lower Upper
43 100
74 24.7 18.6 27.8

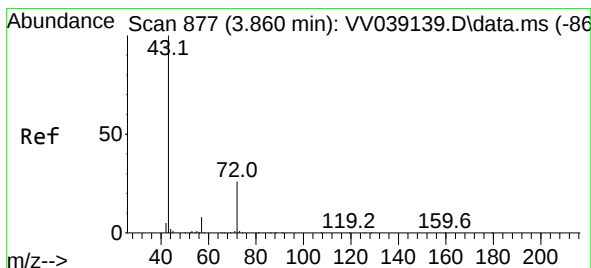
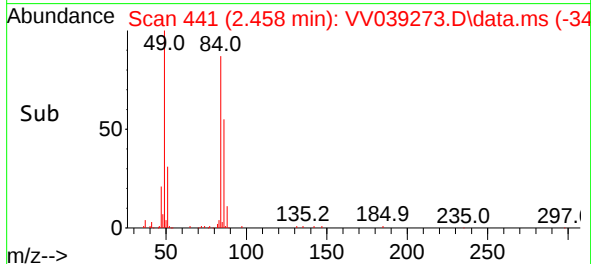
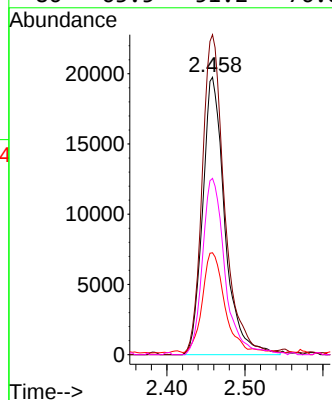
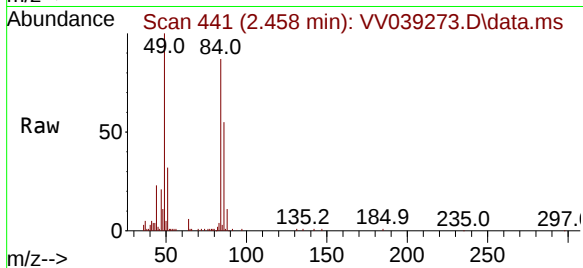




#20
Methylene Chloride
Concen: 4.449 ug/l
RT: 2.458 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

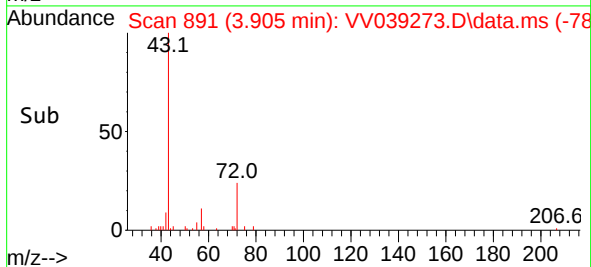
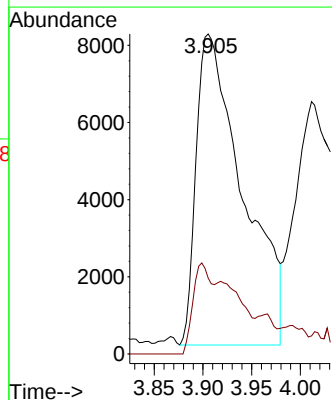
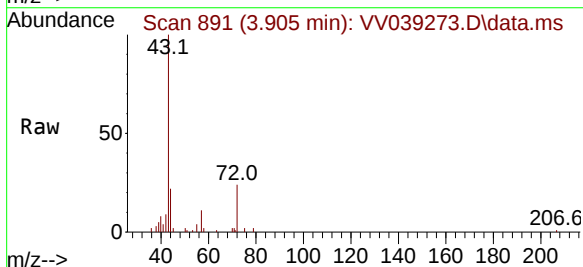
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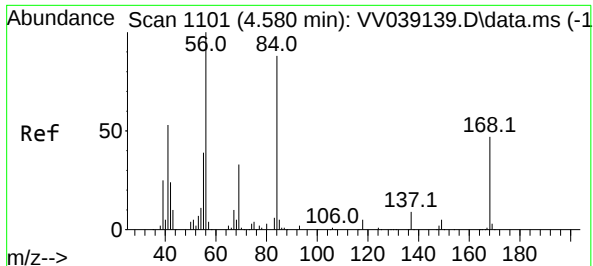
Tgt Ion:	84	Resp:	39078
Ion	Ratio	Lower	Upper
84	100		
49	115.4	102.8	154.2
51	35.8	31.9	47.9
86	63.5	51.2	76.8



#25
2-Butanone
Concen: 5.858 ug/l
RT: 3.905 min Scan# 891
Delta R.T. 0.045 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion:	43	Resp:	26821
Ion	Ratio	Lower	Upper
43	100		
72	24.4	21.0	31.6

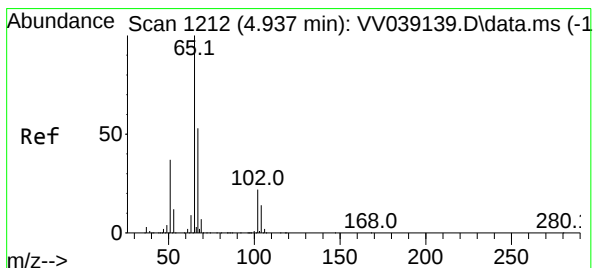
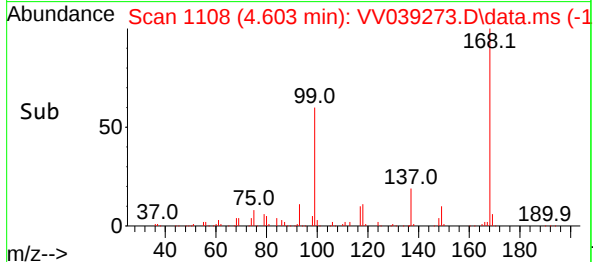
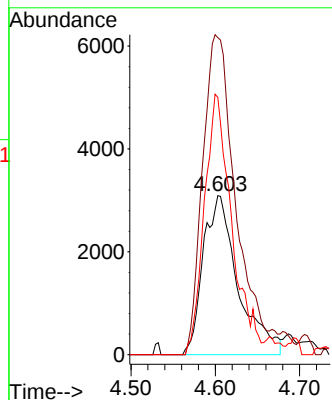
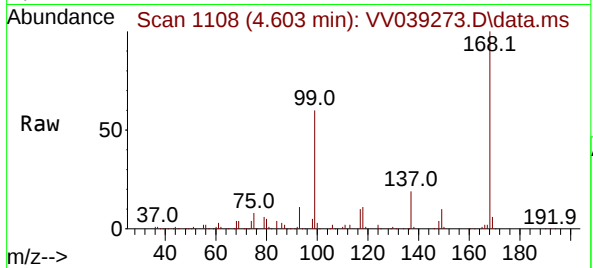




#31
Cyclohexane
Concen: 0.872 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

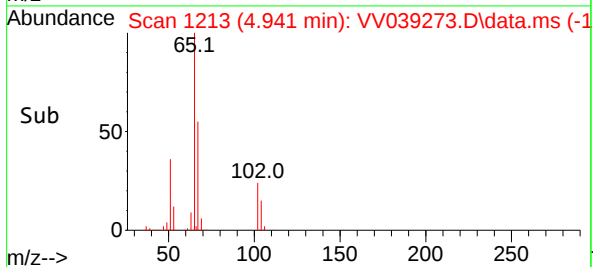
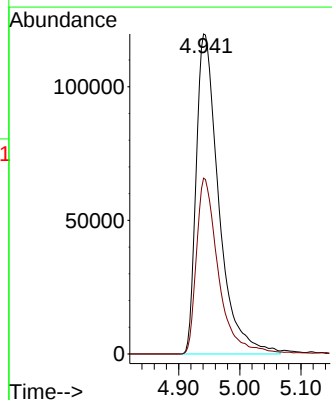
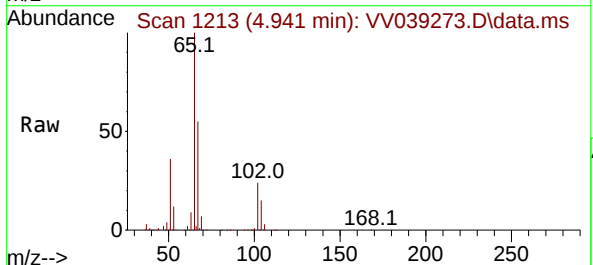
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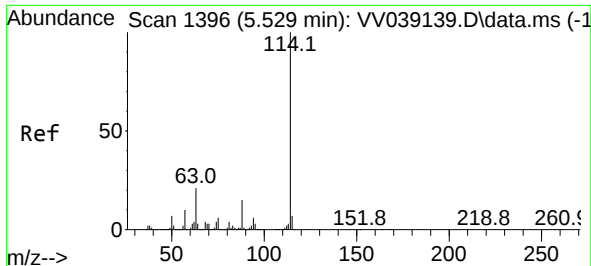
Tgt Ion: 56 Resp: 8891
Ion Ratio Lower Upper
56 100
69 199.4 26.2 39.2#
84 161.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 53.722 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion: 65 Resp: 307185
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

PB169972TB

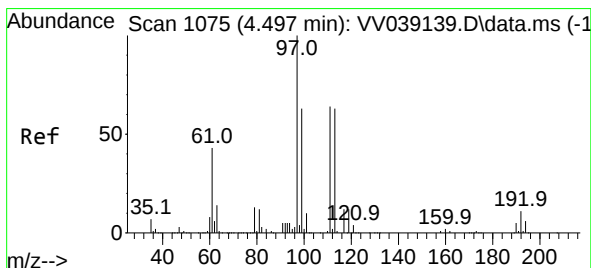
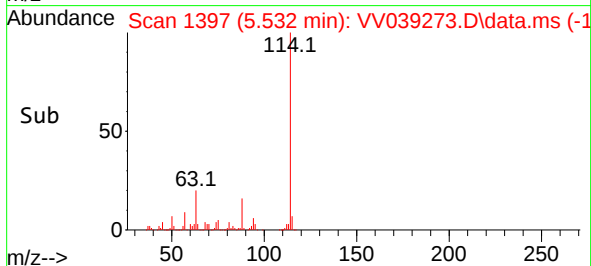
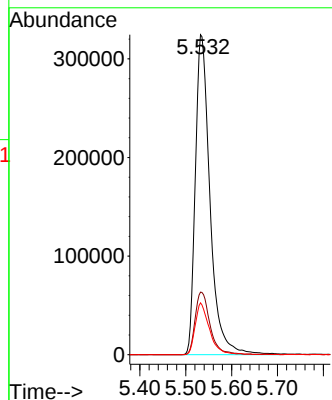
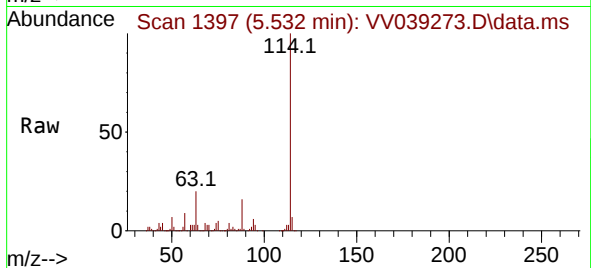
Tgt Ion:114 Resp: 720678

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

88 16.2 0.0 30.8



#35

Dibromofluoromethane

Concen: 53.125 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

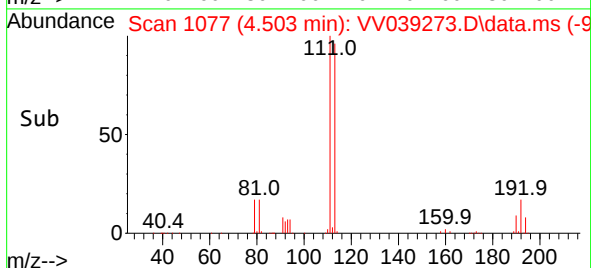
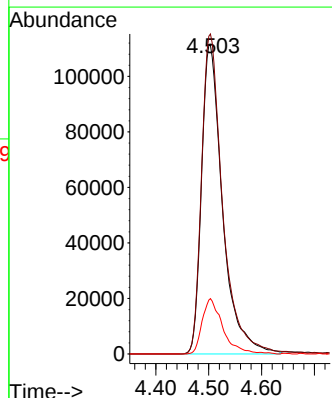
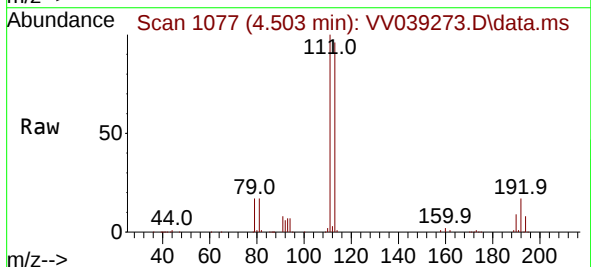
Tgt Ion:113 Resp: 307790

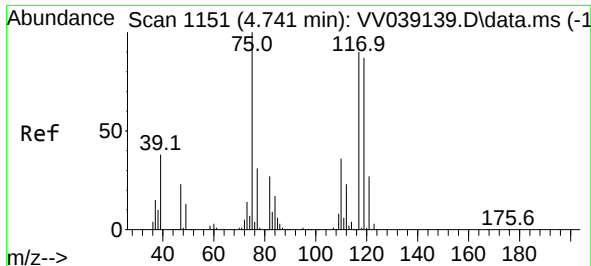
Ion Ratio Lower Upper

113 100

111 104.0 82.4 123.6

192 17.5 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.611 ug/l

RT: 4.600 min Scan# 1151

Delta R.T. -0.141 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

PB169972TB

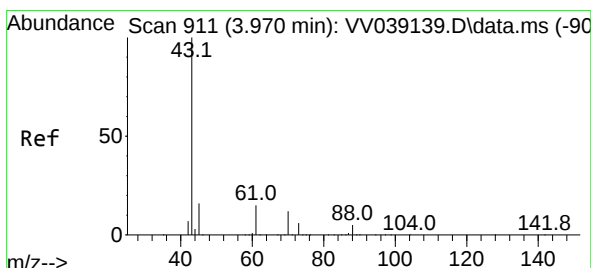
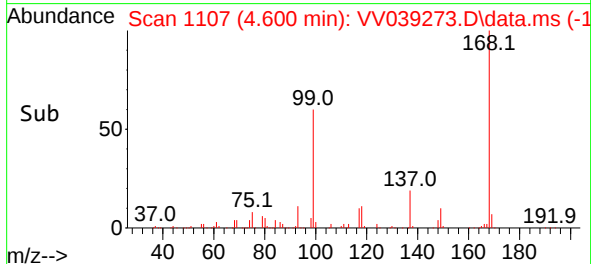
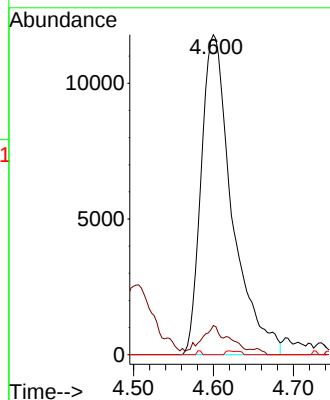
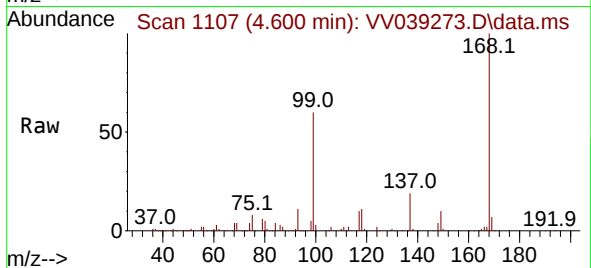
Tgt Ion: 75 Resp: 31634

Ion Ratio Lower Upper

75 100

110 4.5 18.1 54.1#

77 0.2 24.8 37.2#



#37

Ethyl Acetate

Concen: 0.872 ug/l

RT: 4.011 min Scan# 924

Delta R.T. 0.041 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

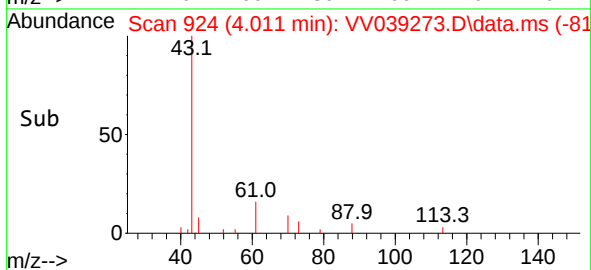
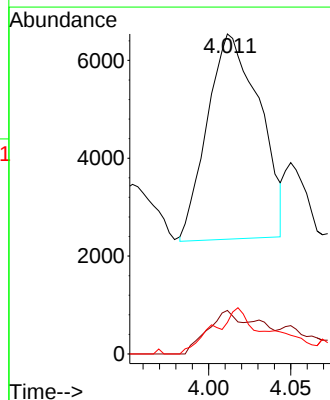
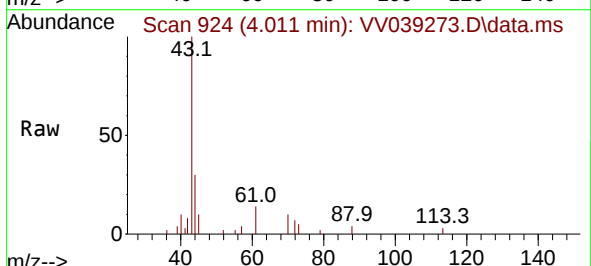
Tgt Ion: 43 Resp: 9271

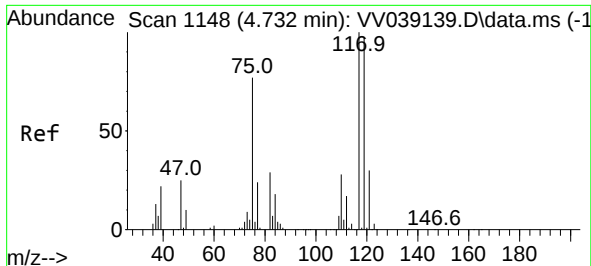
Ion Ratio Lower Upper

43 100

61 13.1 10.3 15.5

70 18.1 8.0 12.0#

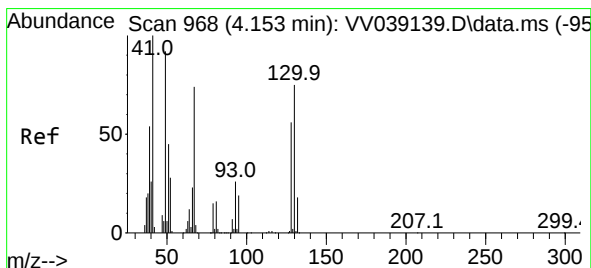
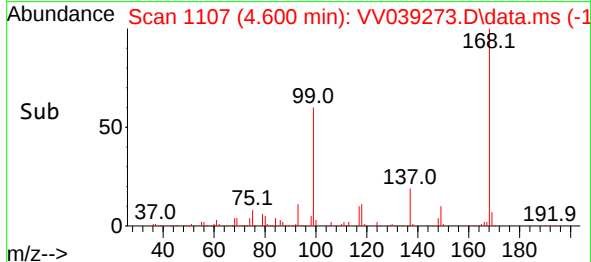
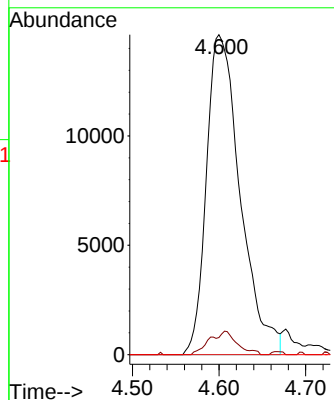
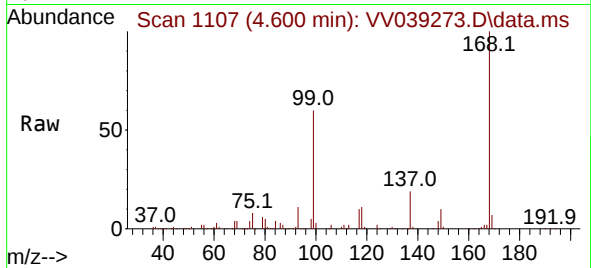




#38
Carbon Tetrachloride
Concen: 3.709 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

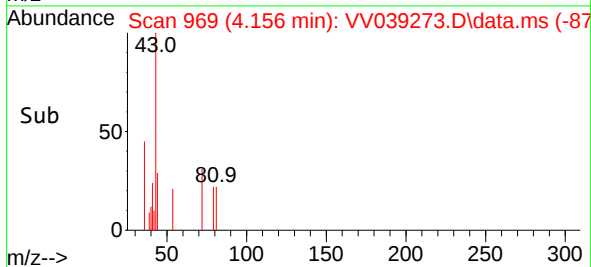
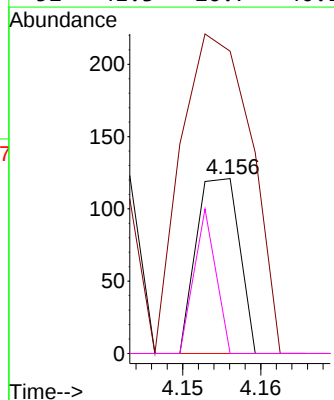
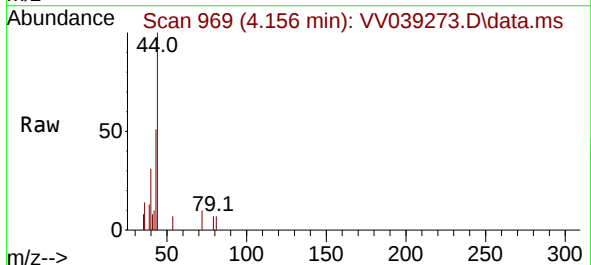
Instrument :
MSVOA_V
ClientSampleId :
PB169972TB

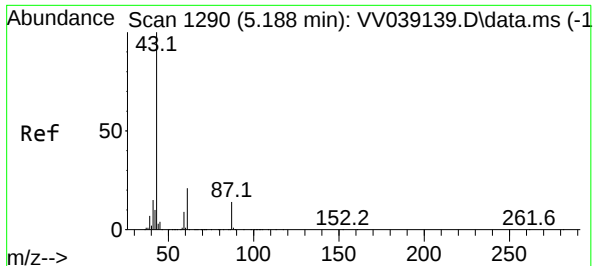
Tgt Ion:117 Resp: 39709
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.920 ug/l
RT: 4.156 min Scan# 969
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion: 41 Resp: 46
Ion Ratio Lower Upper
41 100
39 300.0 42.2 63.2#
67 0.0 67.9 101.9#
52 41.3 26.7 40.1#





#43

Isopropyl Acetate

Concen: 1.972 ug/l

RT: 5.214 min Scan# 11

Delta R.T. 0.026 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

PB169972TB

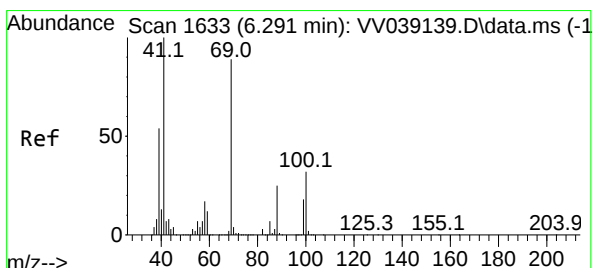
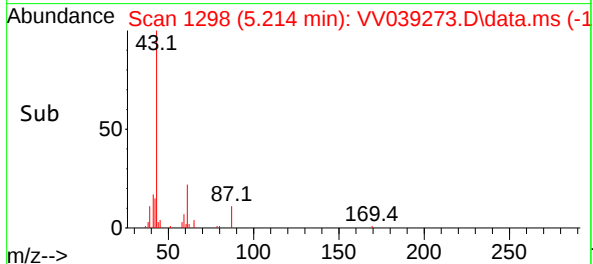
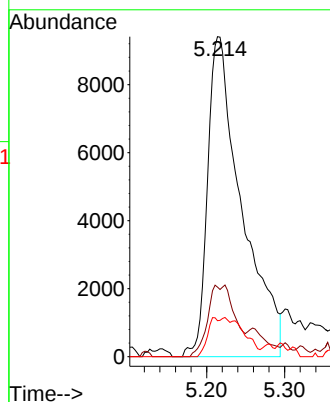
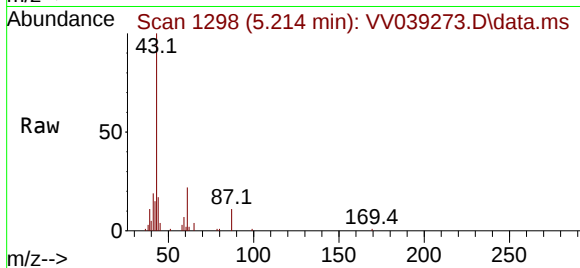
Tgt Ion: 43 Resp: 28578

Ion Ratio Lower Upper

43 100

61 8.6 15.9 23.9#

87 3.8 11.0 16.6#



#48

Methyl methacrylate

Concen: 38.817 ug/l

RT: 6.381 min Scan# 1661

Delta R.T. 0.090 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

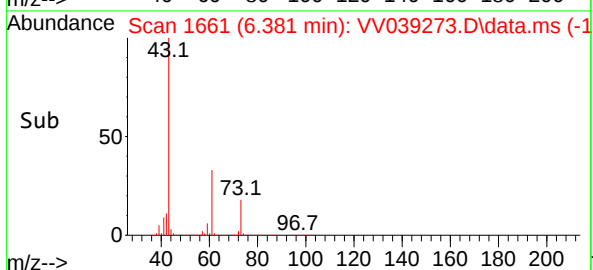
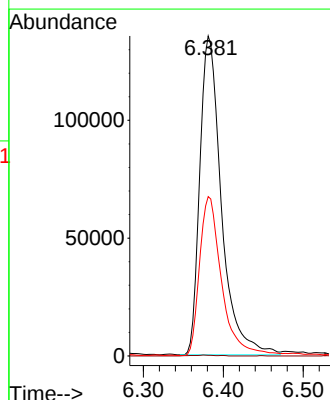
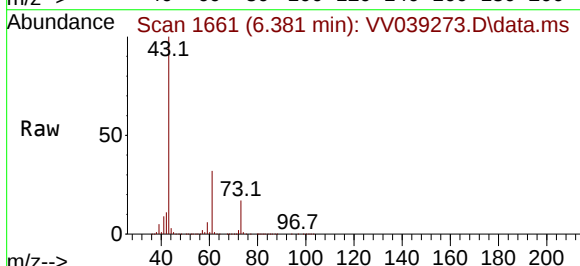
Tgt Ion: 41 Resp: 255005

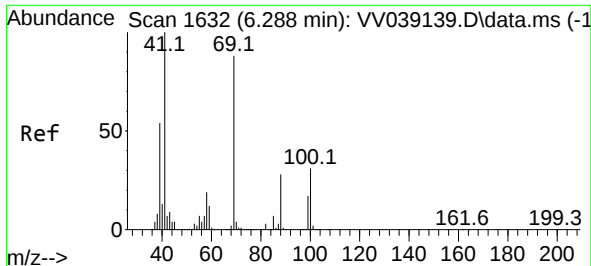
Ion Ratio Lower Upper

41 100

69 0.2 72.4 108.6#

39 50.8 42.5 63.7





#49

1,4-Dioxane

Concen: 0.472 ug/l

RT: 6.346 min Scan# 1

Delta R.T. 0.058 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

PB169972TB

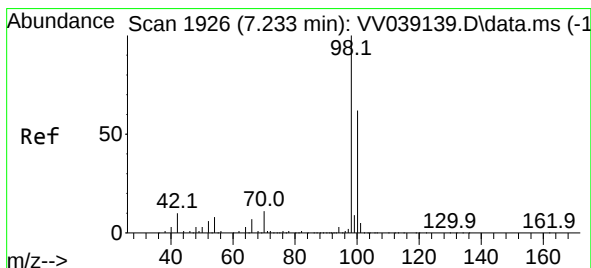
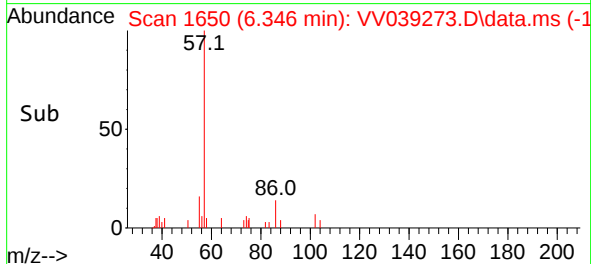
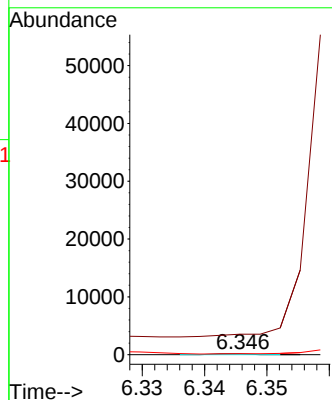
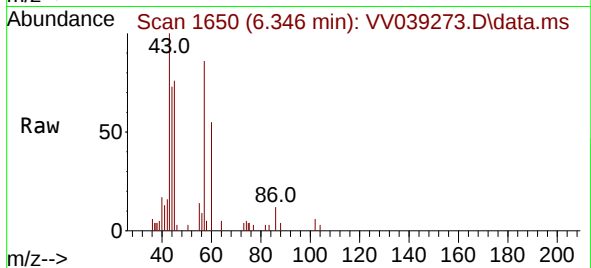
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 47.214 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039273.D

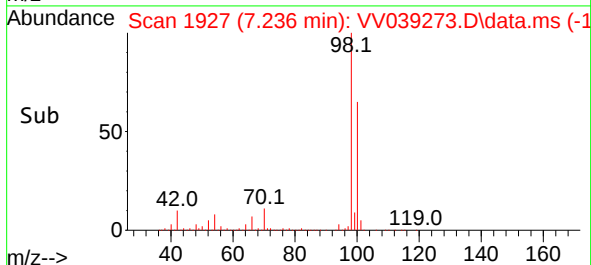
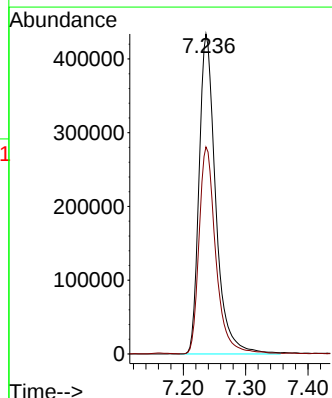
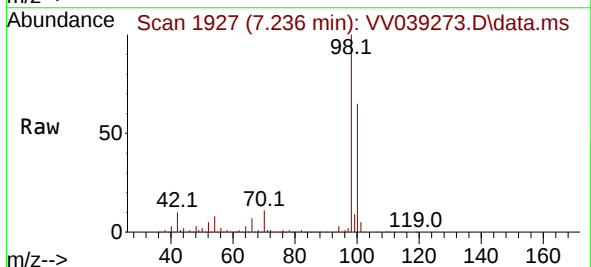
Acq: 06 Oct 2025 15:03

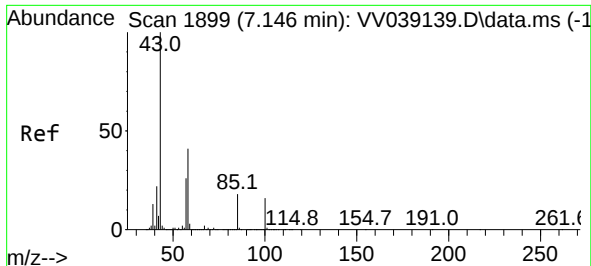
Tgt Ion: 98 Resp: 803391

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 25.149 ug/l

RT: 7.111 min Scan# 1888

Delta R.T. -0.035 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

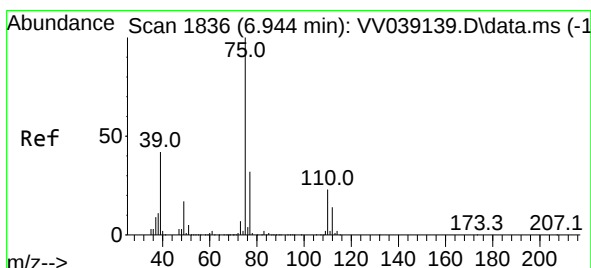
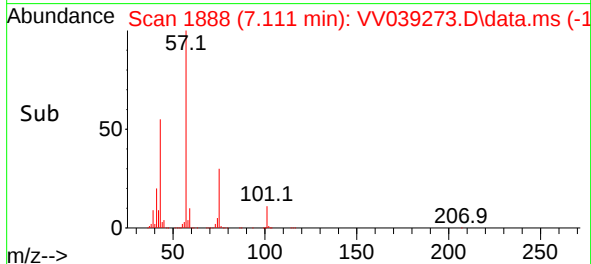
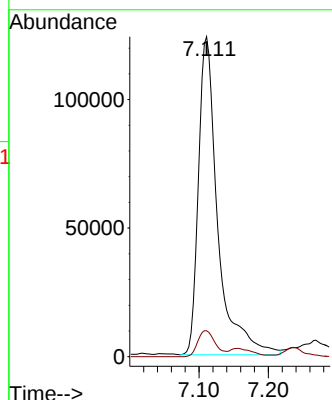
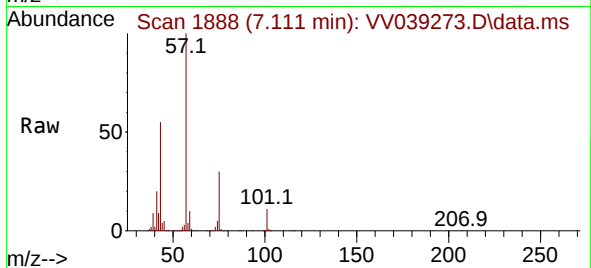
PB169972TB

Tgt Ion: 43 Resp: 239780

Ion Ratio Lower Upper

43 100

58 7.5 32.3 48.5#



#54

cis-1,3-Dichloropropene

Concen: 11.219 ug/l

RT: 7.111 min Scan# 1888

Delta R.T. 0.167 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

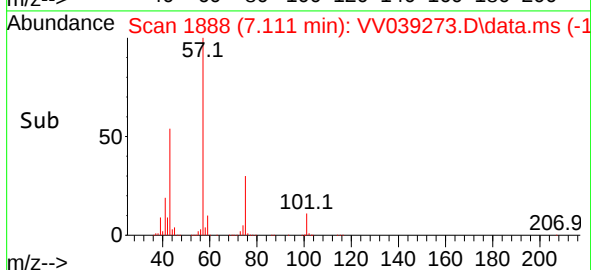
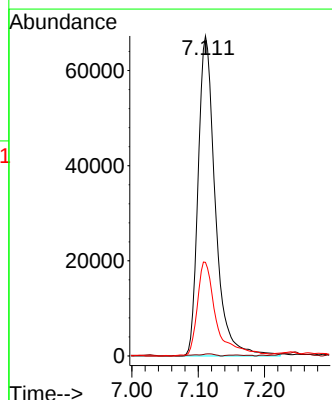
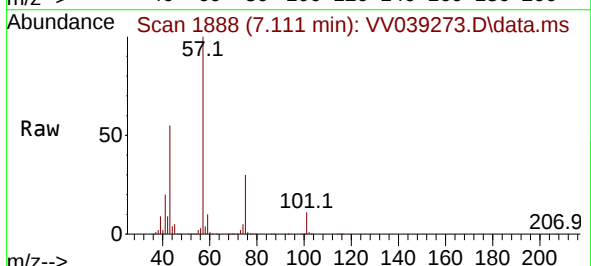
Tgt Ion: 75 Resp: 121079

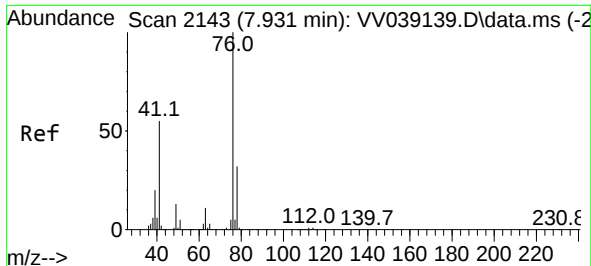
Ion Ratio Lower Upper

75 100

77 0.6 25.5 38.3#

39 29.0 33.8 50.6#





#57

1,3-Dichloropropane

Concen: 0.895 ug/l

RT: 8.117 min Scan# 2143

Delta R.T. 0.186 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

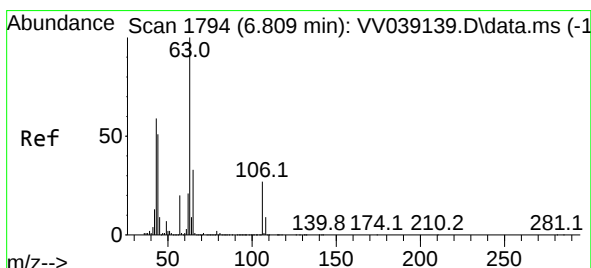
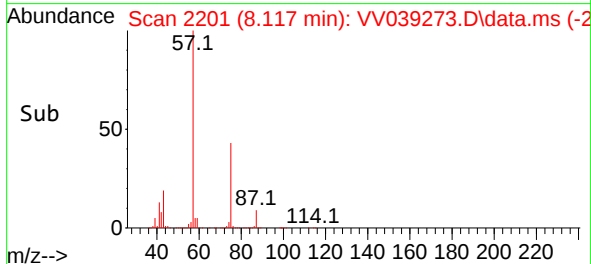
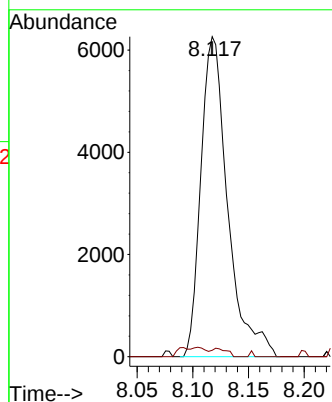
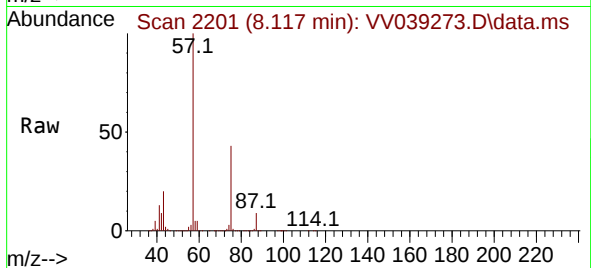
PB169972TB

Tgt Ion: 76 Resp: 10476

Ion Ratio Lower Upper

76 100

78 1.5 26.1 39.1#



#58

2-Chloroethyl Vinyl ether

Concen: 9.627 ug/l

RT: 6.799 min Scan# 1791

Delta R.T. -0.010 min

Lab File: VV039273.D

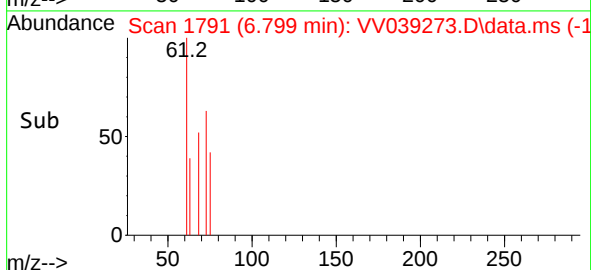
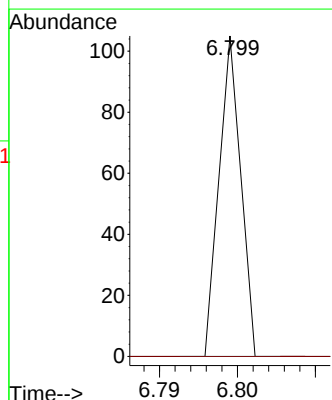
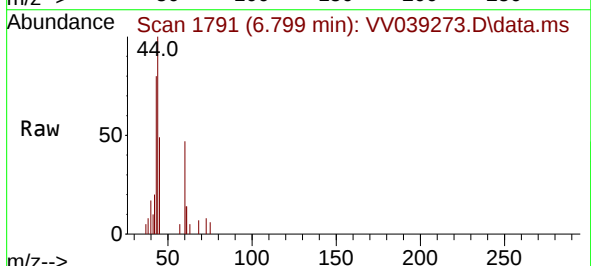
Acq: 06 Oct 2025 15:03

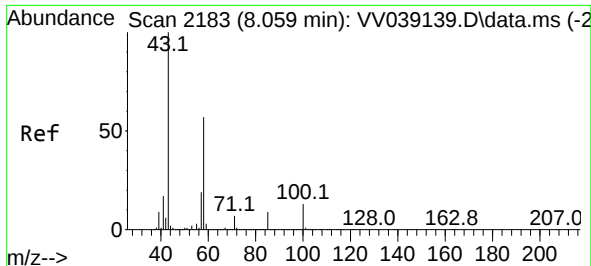
Tgt Ion: 63 Resp: 20

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

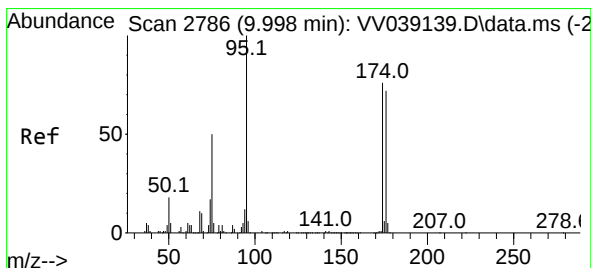
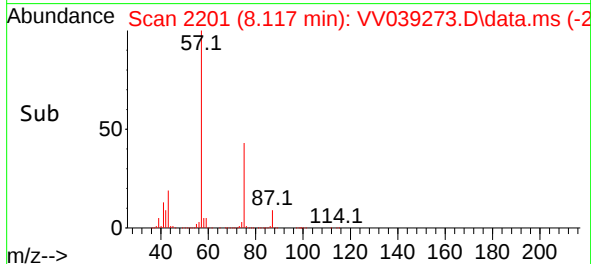
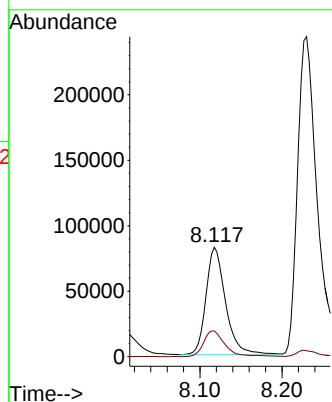
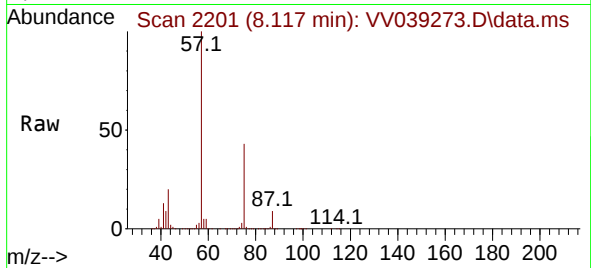




#59
2-Hexanone
Concen: 19.903 ug/l
RT: 8.117 min Scan# 2183
Delta R.T. 0.058 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

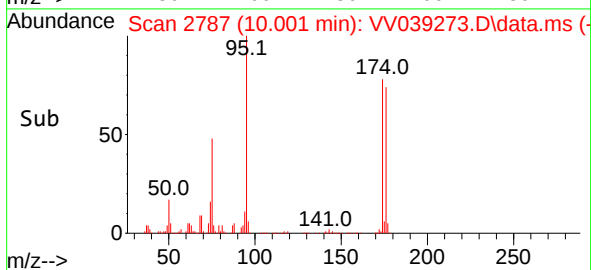
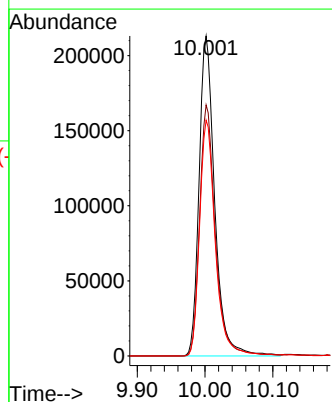
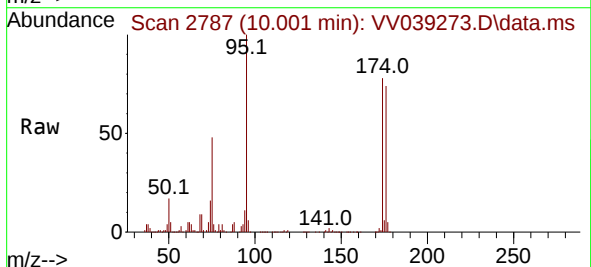
Instrument :
MSVOA_V
ClientSampleId :
PB169972TB

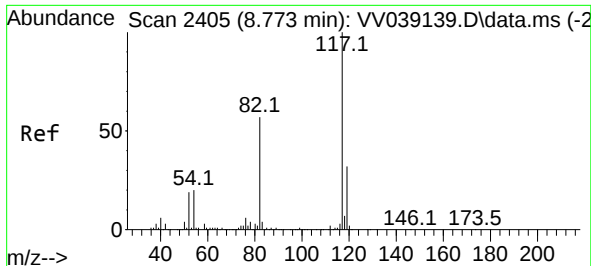
Tgt Ion: 43 Resp: 136543
Ion Ratio Lower Upper
43 100
58 25.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 48.752 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion: 95 Resp: 341508
Ion Ratio Lower Upper
95 100
174 78.7 0.0 150.4
176 73.8 0.0 144.2

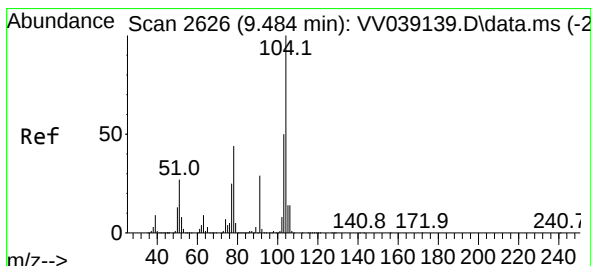
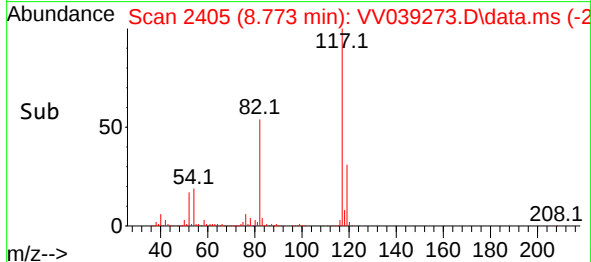
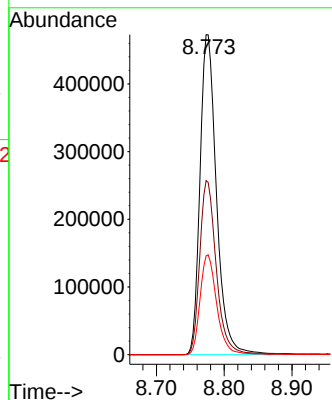
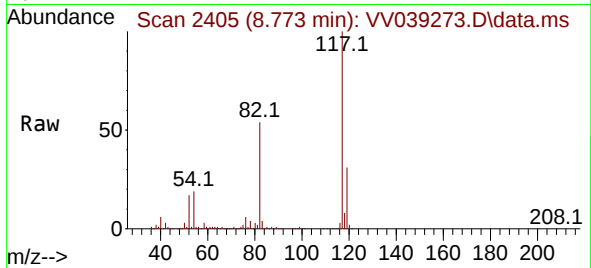




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

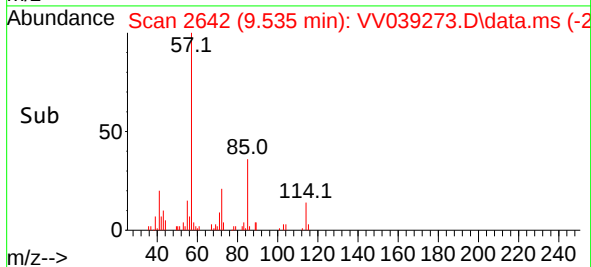
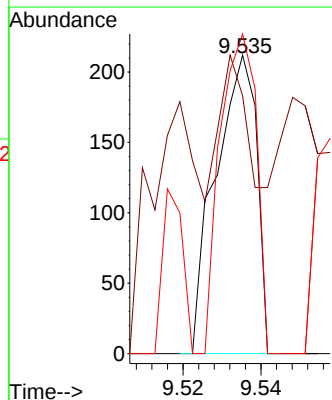
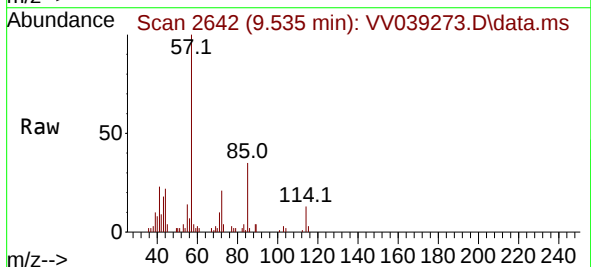
Instrument :
MSVOA_V
ClientSampleId :
PB169972TB

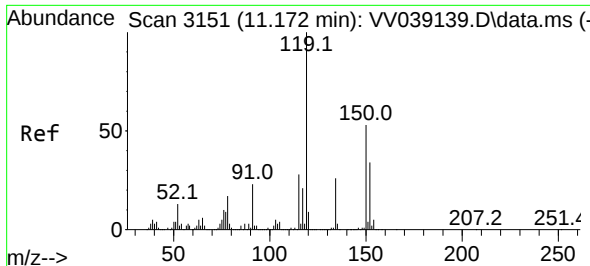
Tgt Ion:117 Resp: 799081
Ion Ratio Lower Upper
117 100
82 54.4 45.4 68.2
119 30.9 25.6 38.4



#70
Styrene
Concen: 1.568 ug/l
RT: 9.535 min Scan# 2642
Delta R.T. 0.051 min
Lab File: VV039273.D
Acq: 06 Oct 2025 15:03

Tgt Ion:104 Resp: 155
Ion Ratio Lower Upper
104 100
78 48.4 39.8 59.6
103 94.8 43.4 65.2#

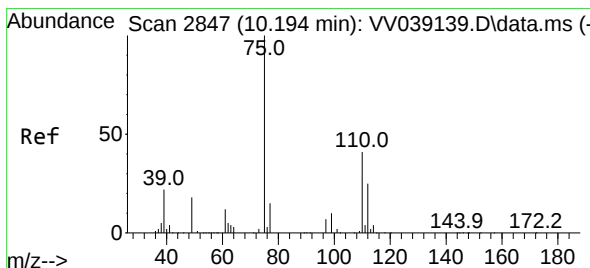
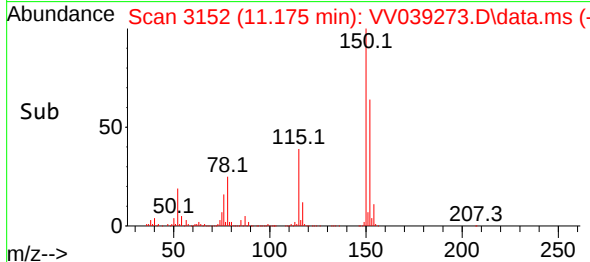
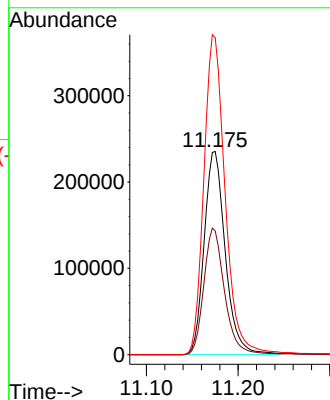
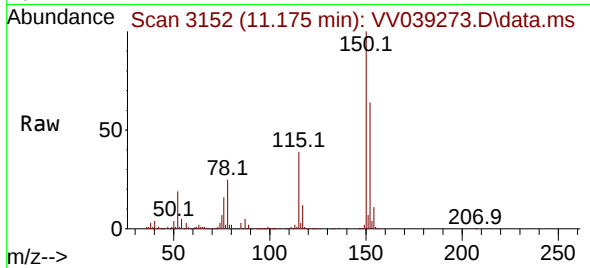




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039273.D
 Acq: 06 Oct 2025 15:03

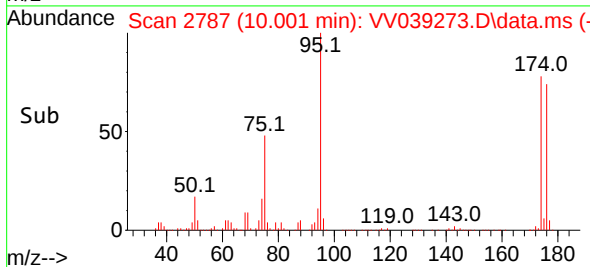
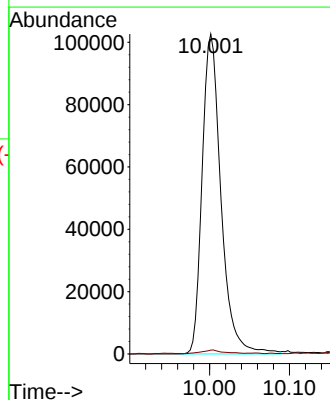
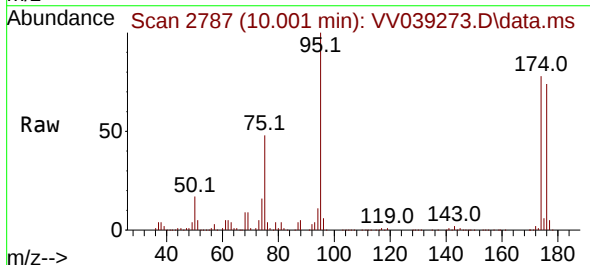
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 MSVOA_V
 ClientSampleId :
 PB169972TB

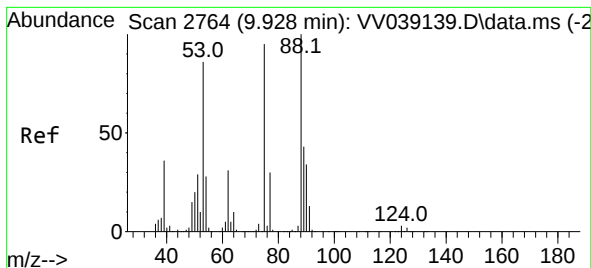
Tgt Ion:152 Resp: 377415
 Ion Ratio Lower Upper
 152 100
 115 61.4 44.8 134.4
 150 159.3 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 19.639 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039273.D
 Acq: 06 Oct 2025 15:03

Tgt Ion: 75 Resp: 168757
 Ion Ratio Lower Upper
 75 100
 77 1.4 11.3 33.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 47.146 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.074 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Instrument :

MSVOA_V

ClientSampleId :

PB169972TB

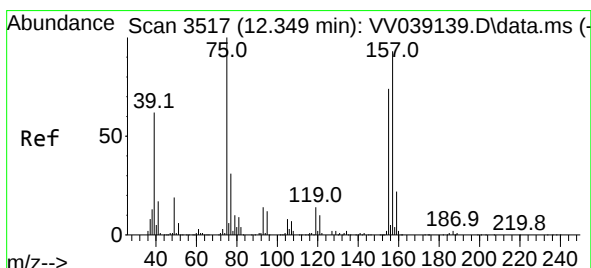
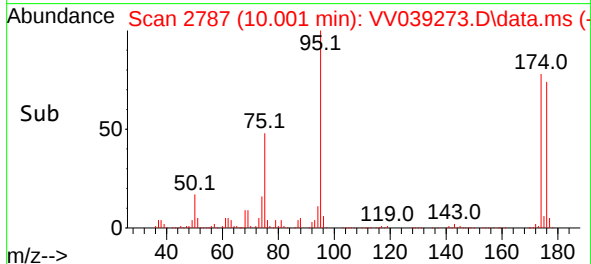
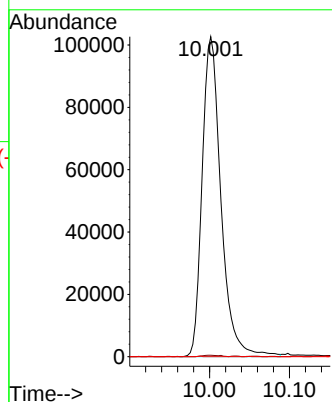
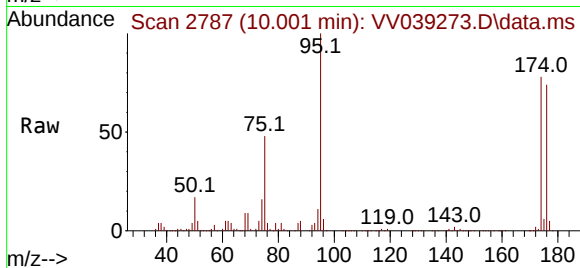
Tgt Ion: 75 Resp: 168757

Ion Ratio Lower Upper

75 100

53 0.4 72.5 108.7#

89 0.0 37.2 55.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.358 min Scan# 3520

Delta R.T. 0.009 min

Lab File: VV039273.D

Acq: 06 Oct 2025 15:03

Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

