

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039259.D
 Acq On : 03 Oct 2025 18:49
 Operator : SY/MD
 Sample : Q3201-04 10X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW10

Quant Time: Oct 04 01:16:10 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)

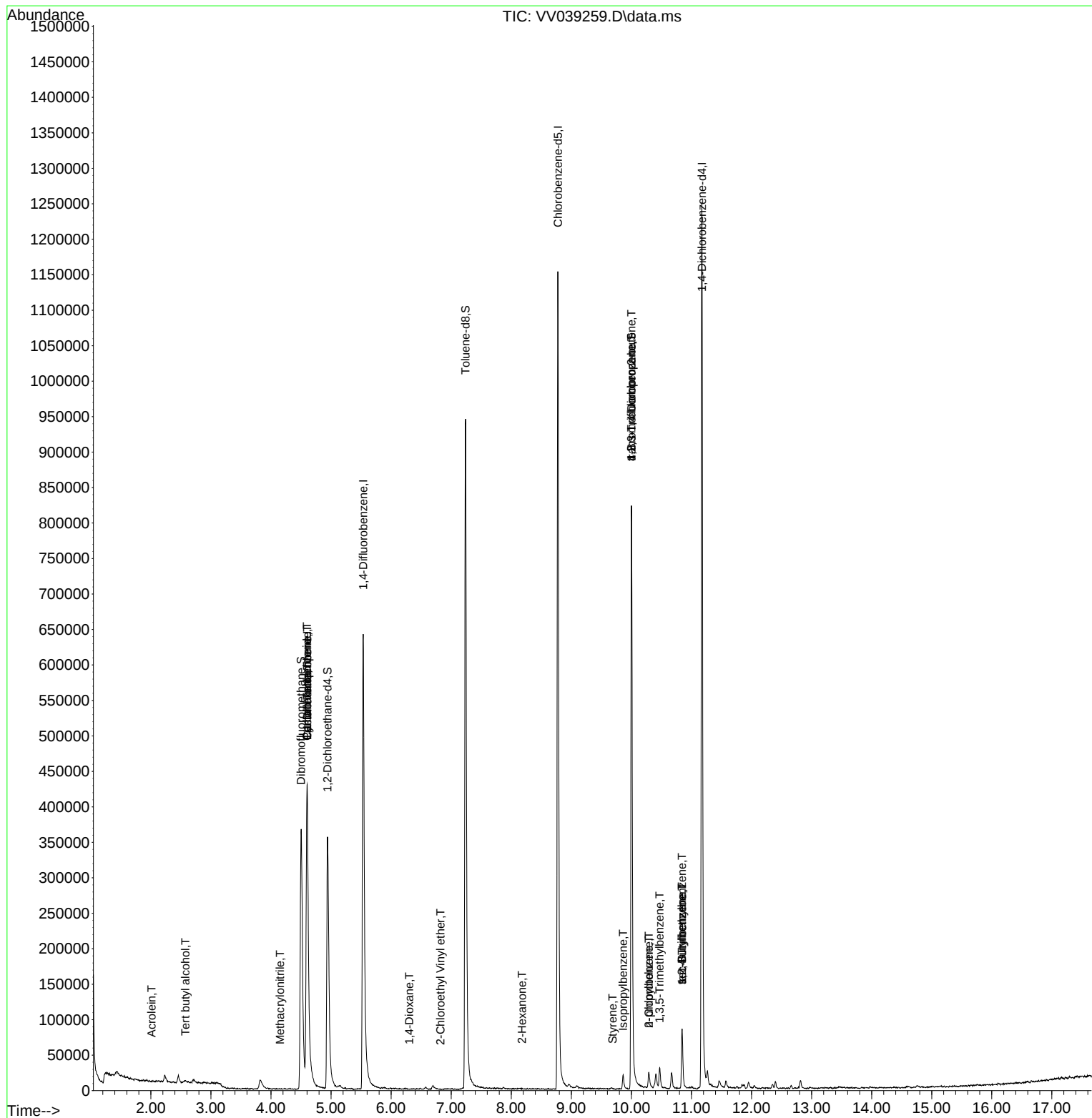
Internal Standards						
1) Pentafluorobenzene	4.603	168	370003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	637755	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	661236	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	339907	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	315217	58.864	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	117.720%
35) Dibromofluoromethane	4.503	113	305851	59.655	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	119.300%#
50) Toluene-d8	7.239	98	697713	46.335	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	92.660%
62) 4-Bromofluorobenzene	10.001	95	285785	46.102	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	92.200%
Target Compounds						
					Qvalue	
6) Chloroethane	1.571	64	806	Below Cal	#	66
11) Tert butyl alcohol	2.577	59	950	0.839	ug/l	96
13) Acrolein	2.011	56	160	0.815	ug/l #	1
16) Acetone	2.130	43	2661	Below Cal		90
20) Methylene Chloride	2.458	84	4574	Below Cal	#	81
31) Cyclohexane	4.603	56	7680	0.804	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	32033	4.132	ug/l #	46
38) Carbon Tetrachloride	4.600	117	38059	4.017	ug/l #	17
41) Methacrylonitrile	4.149	41	39	1.919	ug/l #	1
49) 1,4-Dioxane	6.301	88	50	0.533	ug/l #	14
58) 2-Chloroethyl Vinyl ether	6.821	63	22	9.628	ug/l #	47
59) 2-Hexanone	8.181	43	118	2.343	ug/l	75
70) Styrene	9.686	104	21	1.562	ug/l #	26
73) Isopropylbenzene	9.860	105	11345	0.460	ug/l	96
76) 1,2,3-Trichloropropane	10.001	75	137198	17.728	ug/l #	56
78) n-propylbenzene	10.291	91	18671	0.622	ug/l	97
79) 2-Chlorotoluene	10.291	91	18671	1.039	ug/l #	41
80) 1,3,5-Trimethylbenzene	10.471	105	15495	0.756	ug/l	97
81) trans-1,4-Dichloro-2-b...	10.001	75	137198	42.559	ug/l #	13
83) tert-Butylbenzene	10.844	119	7473	0.366	ug/l #	59
84) 1,2,4-Trimethylbenzene	10.844	105	47499	2.388	ug/l	100
85) sec-Butylbenzene	10.844	105	47499	1.753	ug/l #	58
92) 1,2-Dibromo-3-Chloropr...	12.387	75	141	Below Cal	#	5

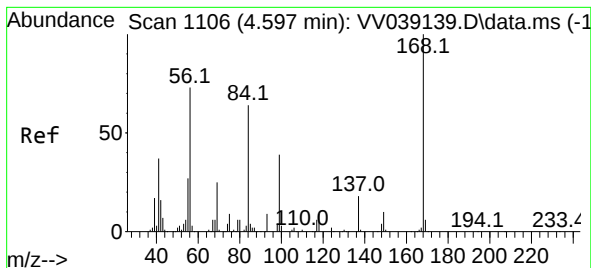
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

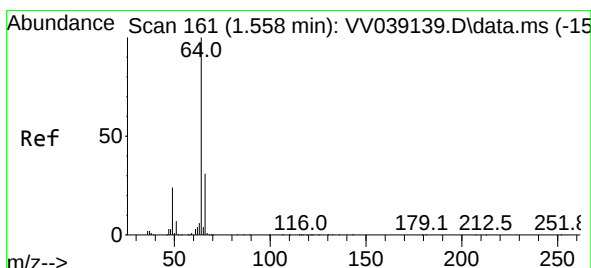
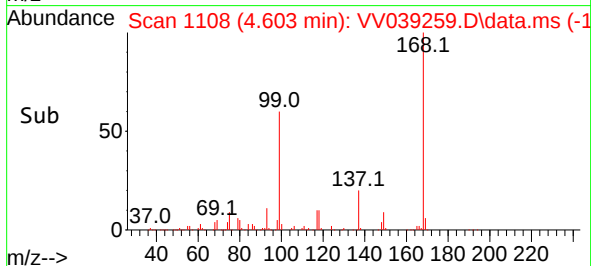
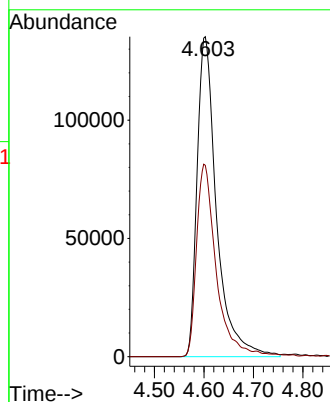
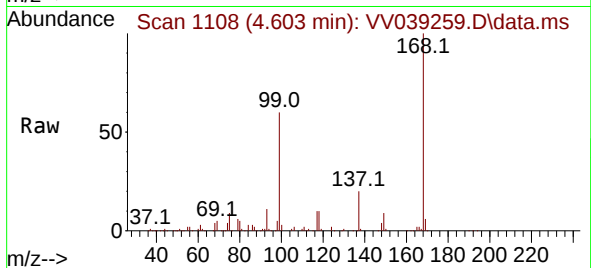
MW10

Tgt Ion:168 Resp: 370003

Ion Ratio Lower Upper

168 100

99 59.8 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.571 min Scan# 165

Delta R.T. 0.013 min

Lab File: VV039259.D

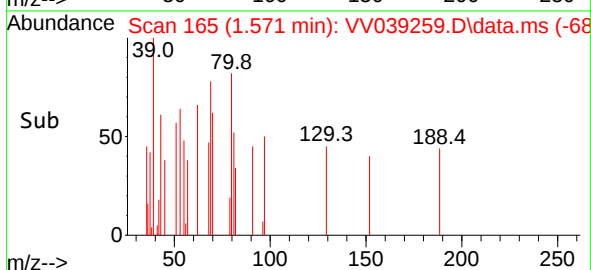
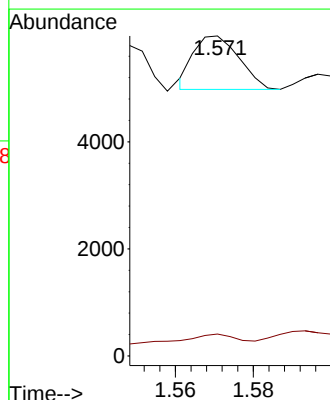
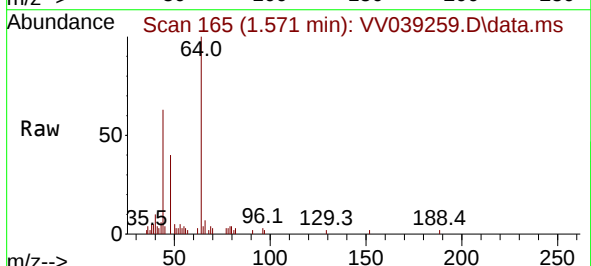
Acq: 03 Oct 2025 18:49

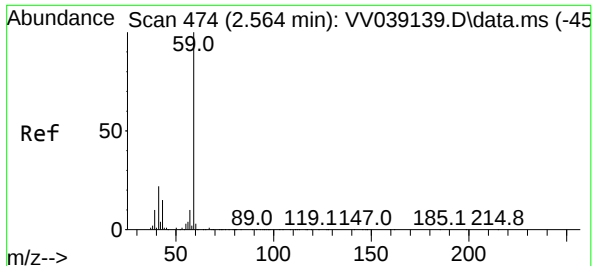
Tgt Ion: 64 Resp: 806

Ion Ratio Lower Upper

64 100

66 12.3 24.6 36.8#

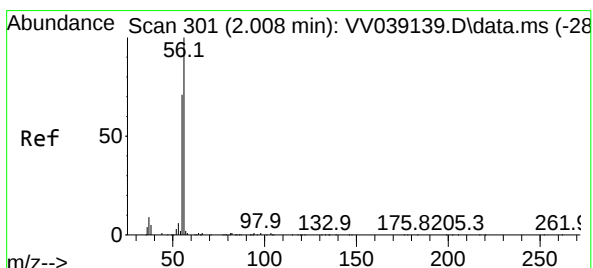
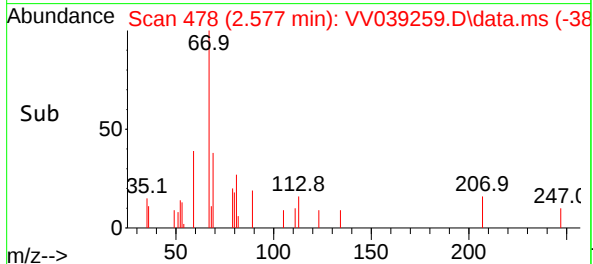
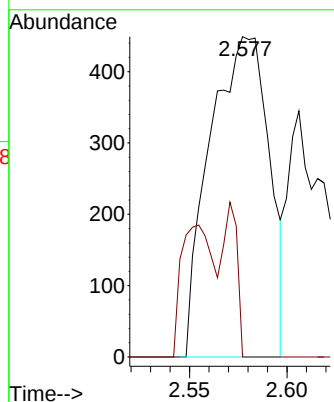
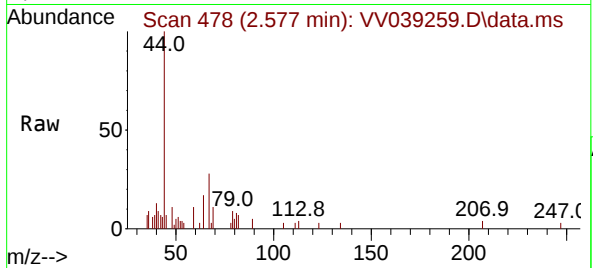




#11
Tert butyl alcohol
Concen: 0.839 ug/l
RT: 2.577 min Scan# 41
Delta R.T. 0.013 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

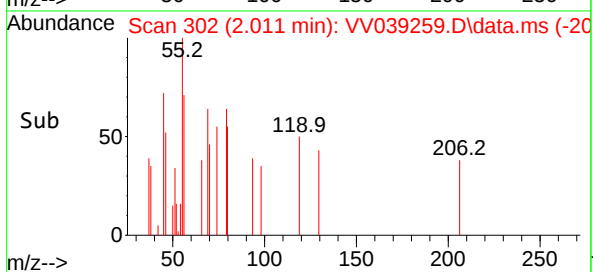
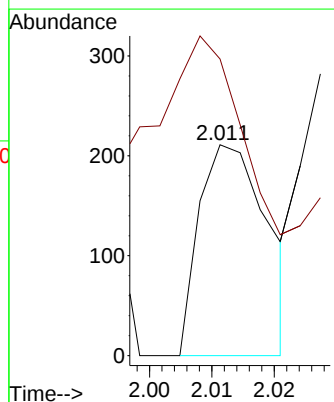
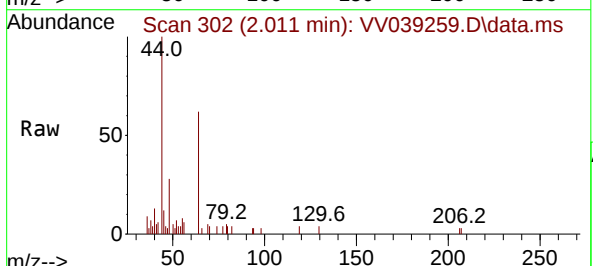
Instrument :
MSVOA_V
ClientSampleId :
MW10

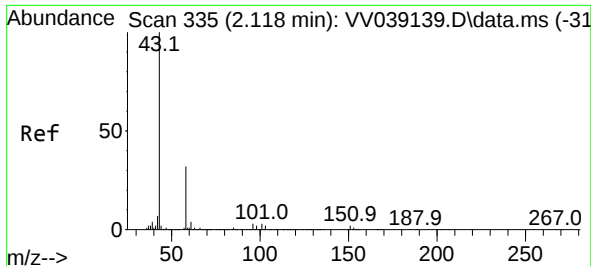
Tgt Ion: 59 Resp: 950
Ion Ratio Lower Upper
59 100
57 11.4 7.8 11.8



#13
Acrolein
Concen: 0.815 ug/l
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

Tgt Ion: 56 Resp: 160
Ion Ratio Lower Upper
56 100
55 158.1 56.2 84.4#

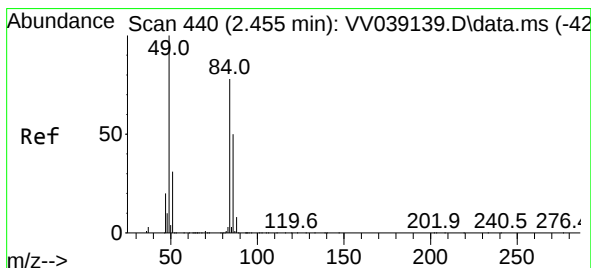
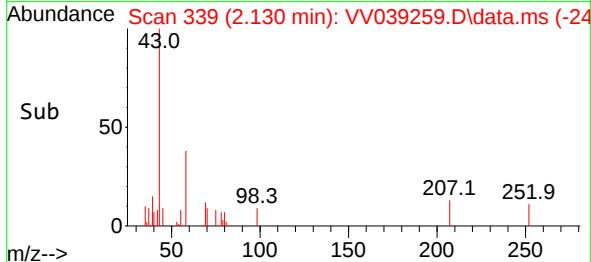
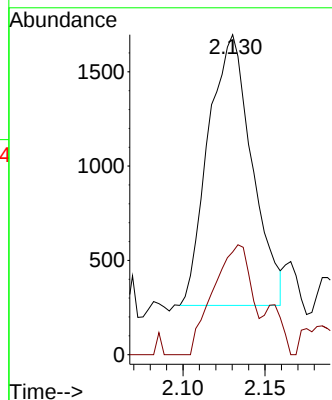
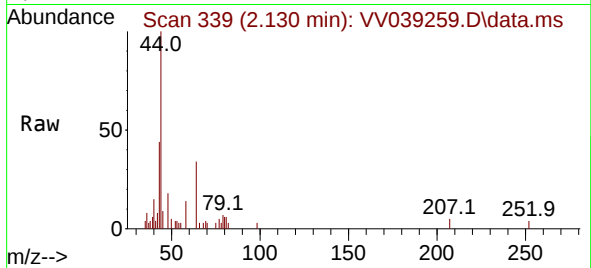




#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 31
Delta R.T. 0.012 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

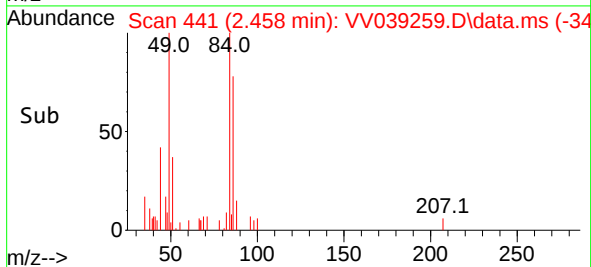
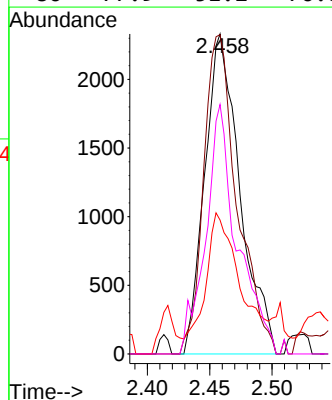
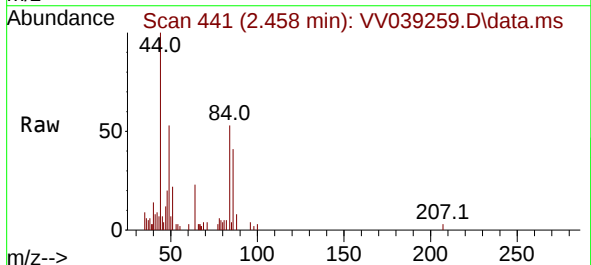
Instrument :
MSVOA_V
ClientSampleId :
MW10

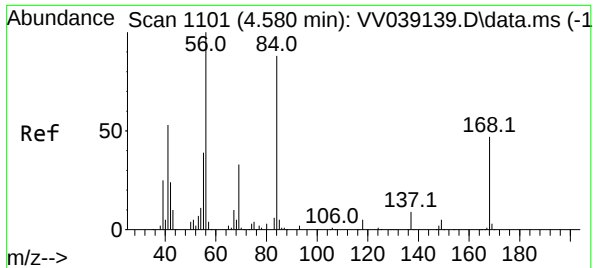
Tgt Ion: 43 Resp: 2661
Ion Ratio Lower Upper
43 100
58 38.0 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

Tgt Ion: 84 Resp: 4574
Ion Ratio Lower Upper
84 100
49 99.8 102.8 154.2#
51 36.8 31.9 47.9
86 77.9 51.2 76.8#

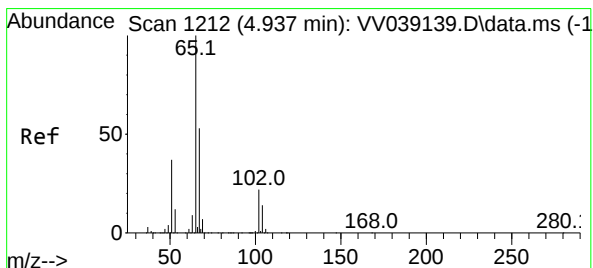
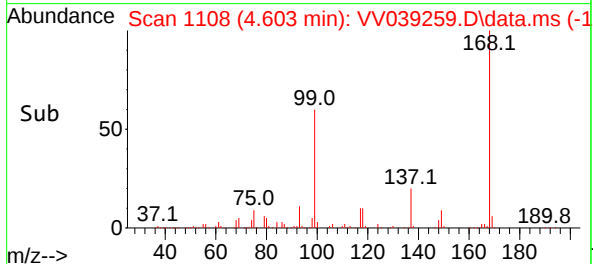
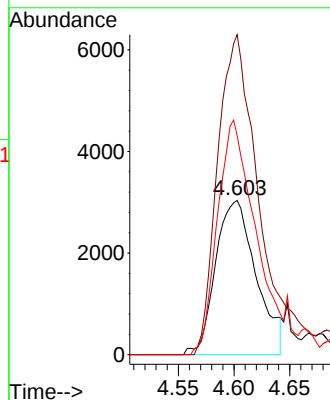
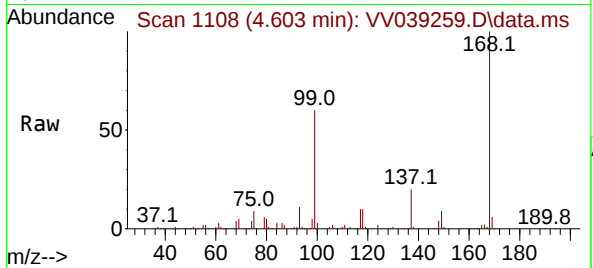




#31
Cyclohexane
Concen: 0.804 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

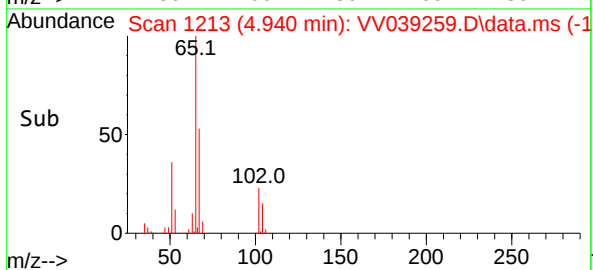
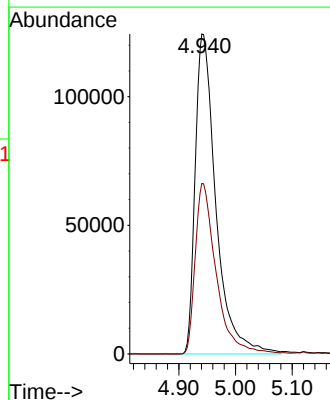
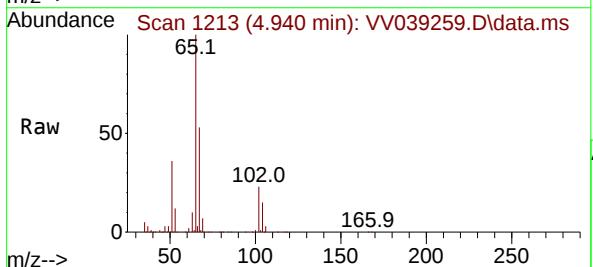
Instrument :
MSVOA_V
ClientSampleId :
MW10

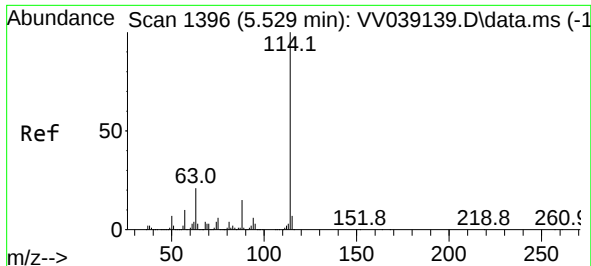
Tgt Ion: 56 Resp: 7680
Ion Ratio Lower Upper
56 100
69 207.4 26.2 39.2#
84 142.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 58.864 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

Tgt Ion: 65 Resp: 315217
Ion Ratio Lower Upper
65 100
67 54.0 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

MW10

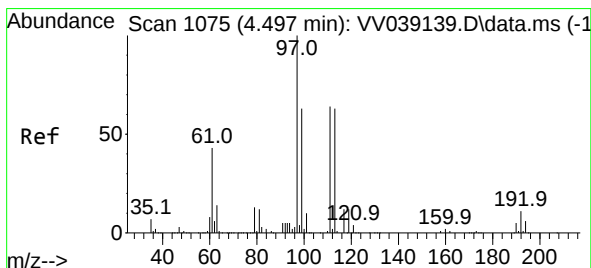
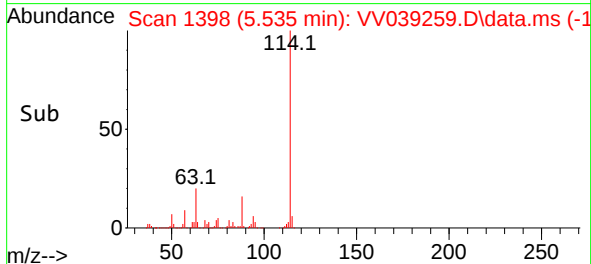
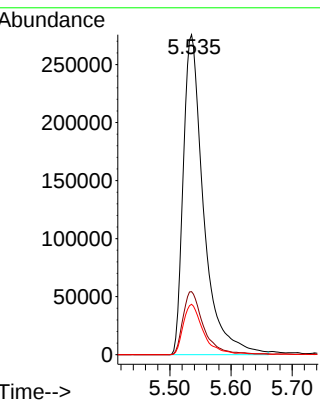
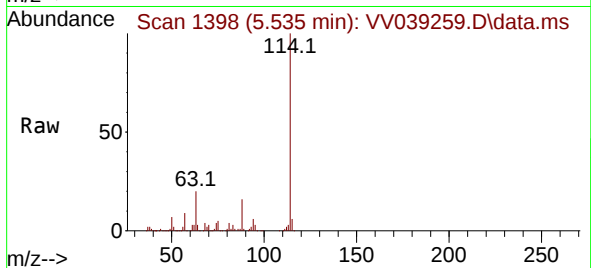
Tgt Ion:114 Resp: 637755

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 59.655 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

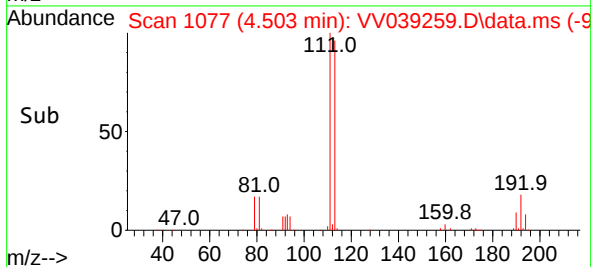
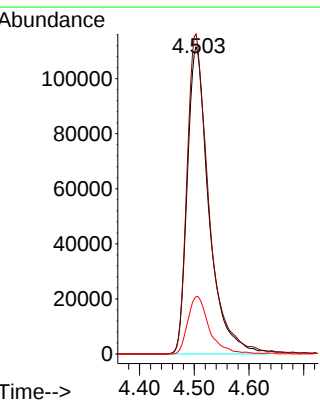
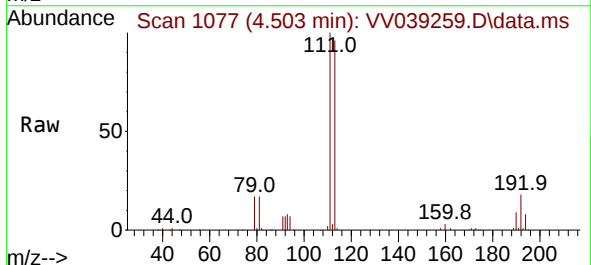
Tgt Ion:113 Resp: 305851

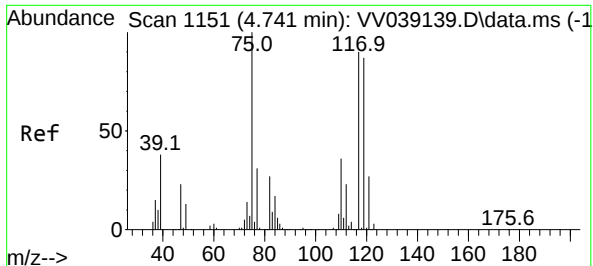
Ion Ratio Lower Upper

113 100

111 105.0 82.4 123.6

192 18.3 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.132 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

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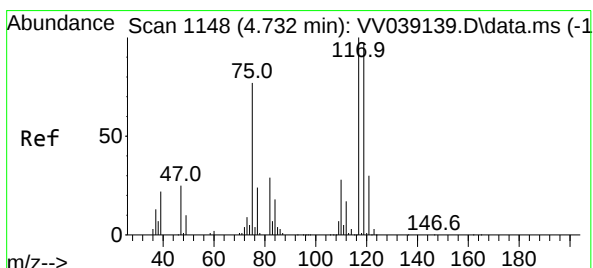
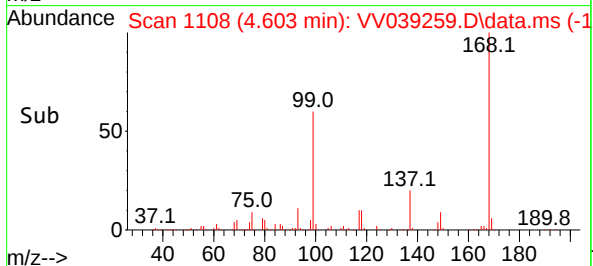
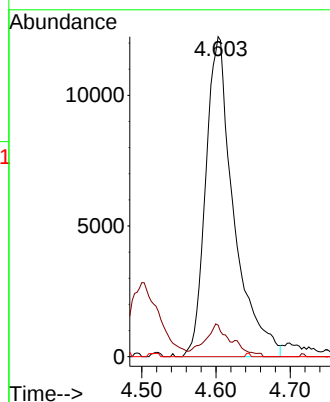
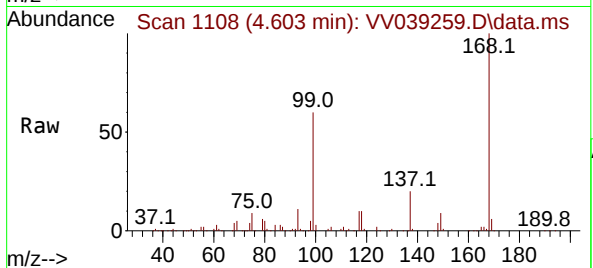
Tgt Ion: 75 Resp: 32033

Ion Ratio Lower Upper

75 100

110 5.5 18.1 54.1#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.017 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.132 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

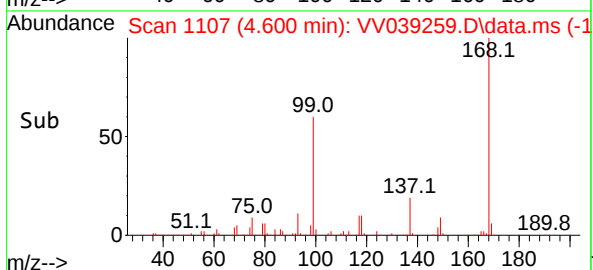
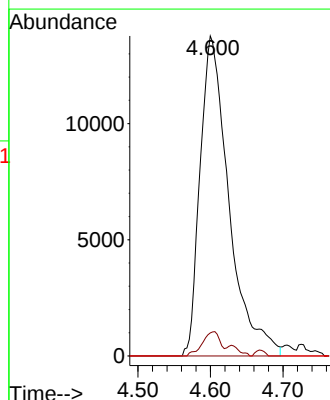
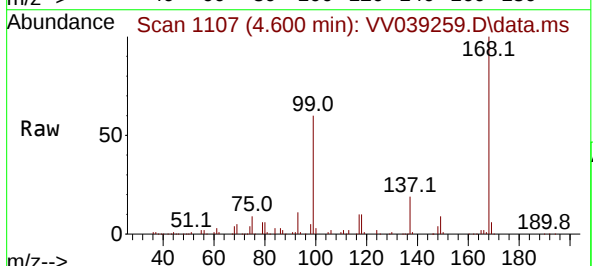
Tgt Ion: 117 Resp: 38059

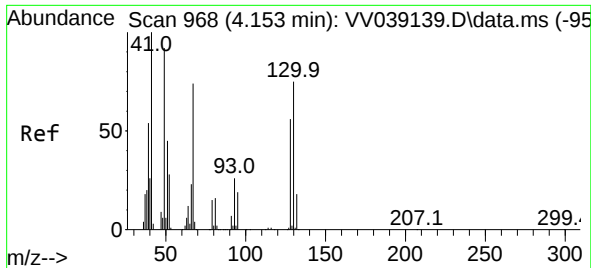
Ion Ratio Lower Upper

117 100

119 7.2 77.2 115.8#

121 0.0 24.2 36.2#

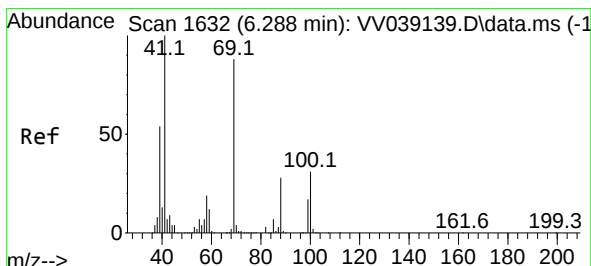
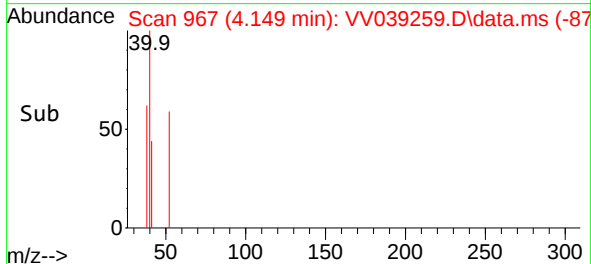
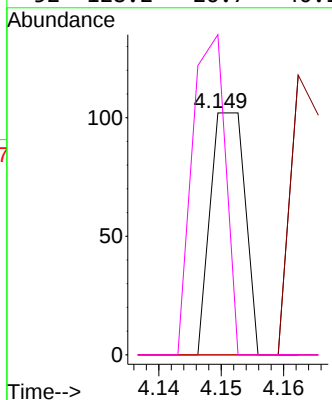
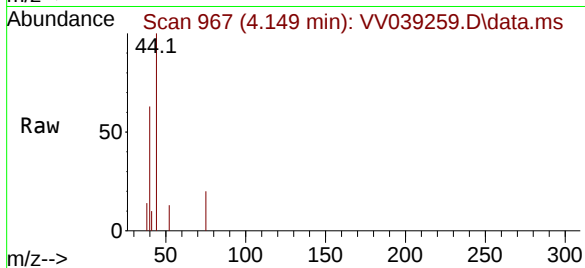




#41
Methacrylonitrile
Concen: 1.919 ug/l
RT: 4.149 min Scan# 967
Delta R.T. -0.004 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

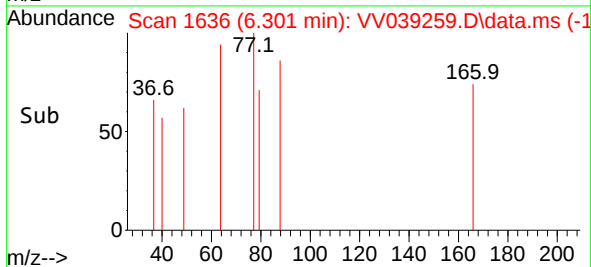
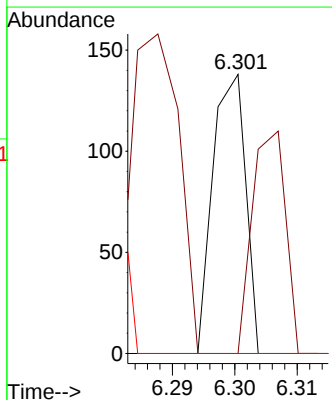
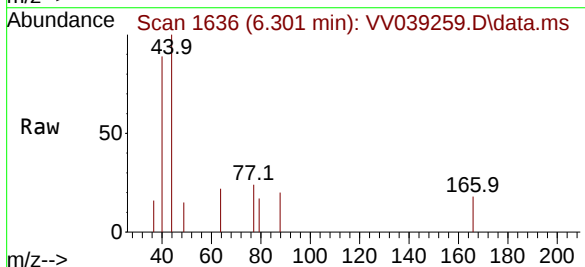
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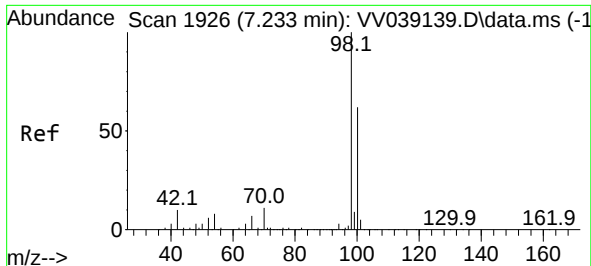
Tgt Ion:	41	Resp:	39
Ion	Ratio	Lower	Upper
41	100		
39	107.7	42.2	63.2#
67	0.0	67.9	101.9#
52	128.2	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.533 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.013 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

Tgt Ion:	88	Resp:	50
Ion	Ratio	Lower	Upper
88	100		
43	82.0	25.1	37.7#
58	0.0	53.6	80.4#

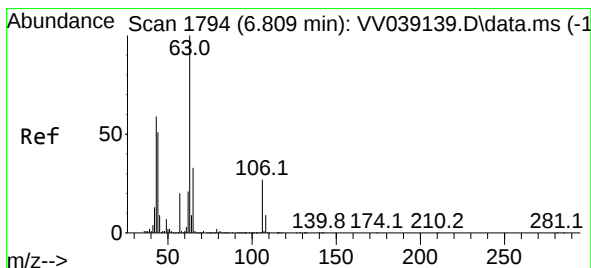
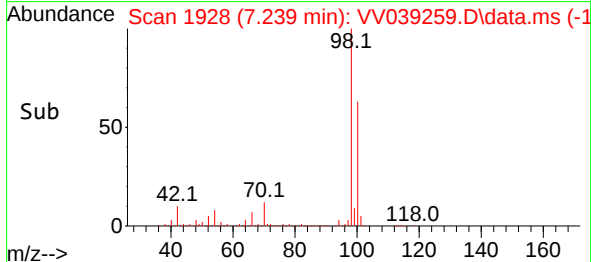
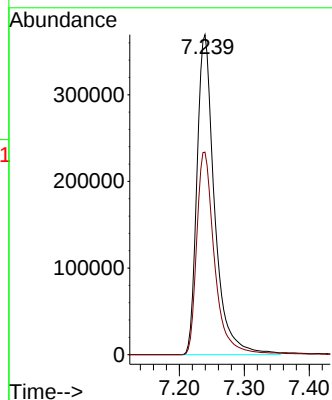
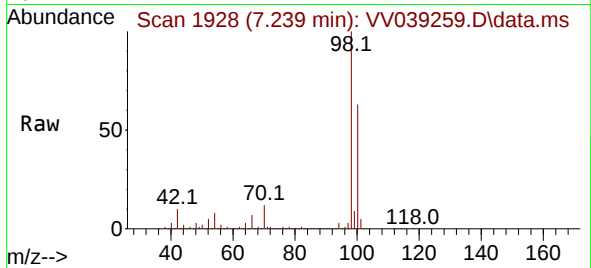




#50
Toluene-d8
Concen: 46.335 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

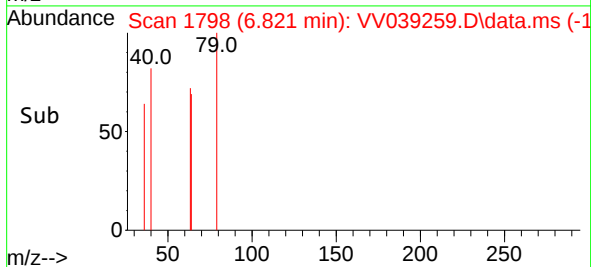
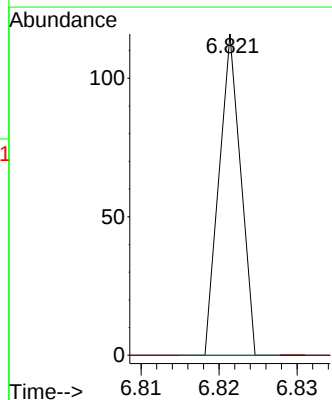
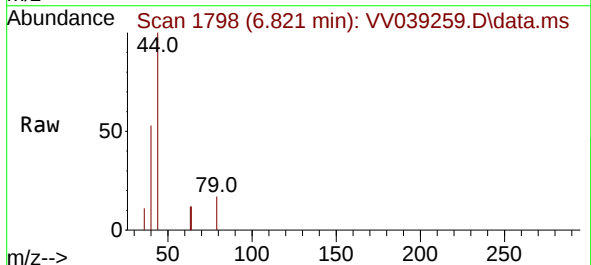
Instrument :
MSVOA_V
ClientSampleId :
MW10

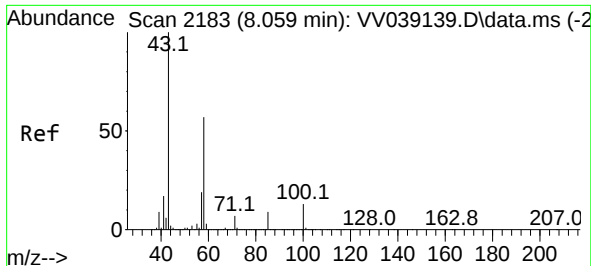
Tgt Ion: 98 Resp: 697713
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.628 ug/l
RT: 6.821 min Scan# 1798
Delta R.T. 0.012 min
Lab File: VV039259.D
Acq: 03 Oct 2025 18:49

Tgt Ion: 63 Resp: 22
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.343 ug/l

RT: 8.181 min Scan# 2183

Delta R.T. 0.122 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

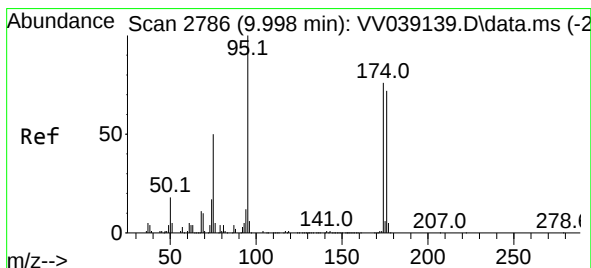
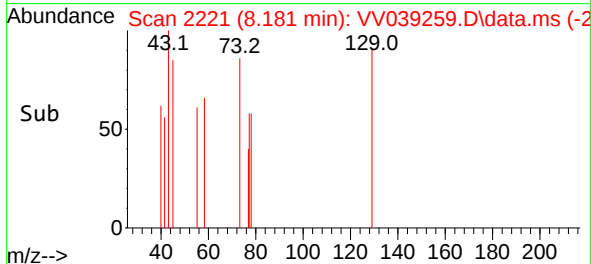
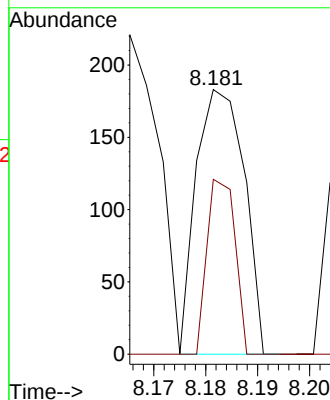
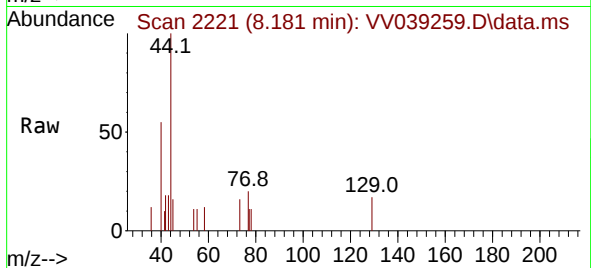
MW10

Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

58 38.1 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 46.102 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

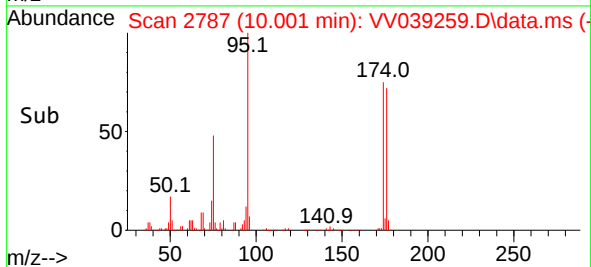
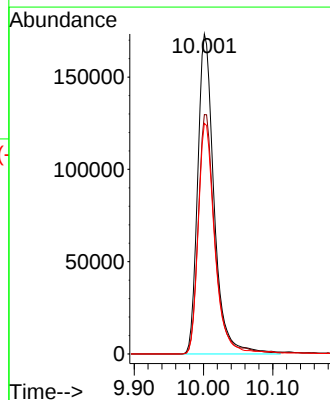
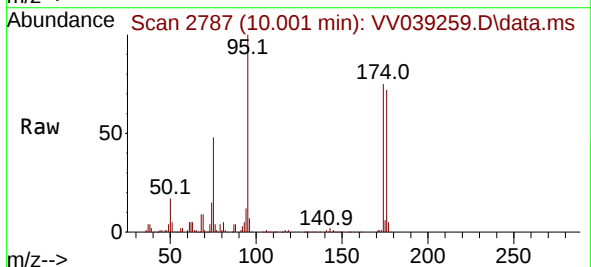
Tgt Ion: 95 Resp: 285785

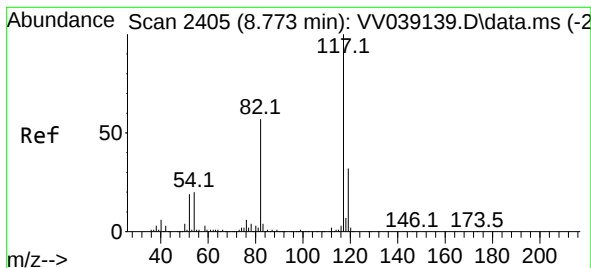
Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.4

176 72.2 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

MW10

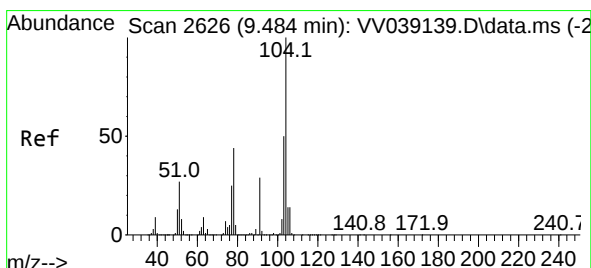
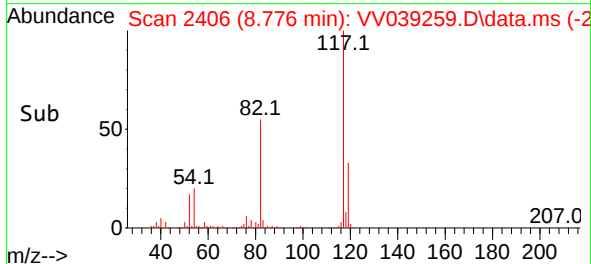
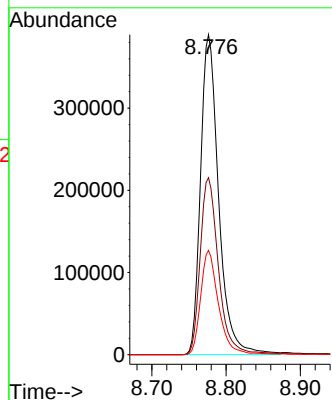
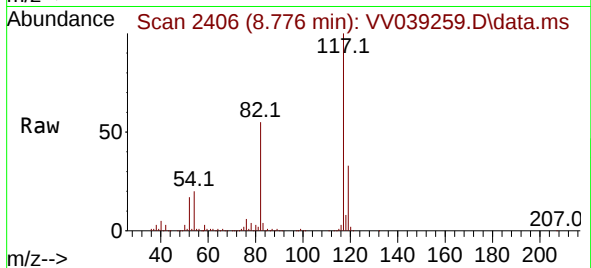
Tgt Ion:117 Resp: 661236

Ion Ratio Lower Upper

117 100

82 55.3 45.4 68.2

119 32.6 25.6 38.4



#70

Styrene

Concen: 1.562 ug/l

RT: 9.686 min Scan# 2689

Delta R.T. 0.202 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

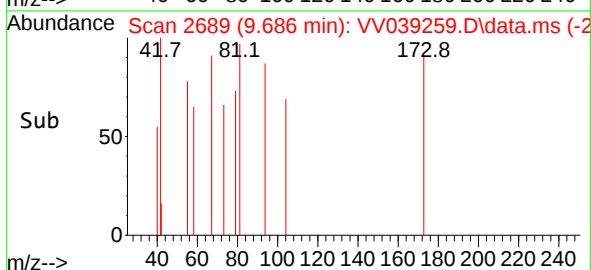
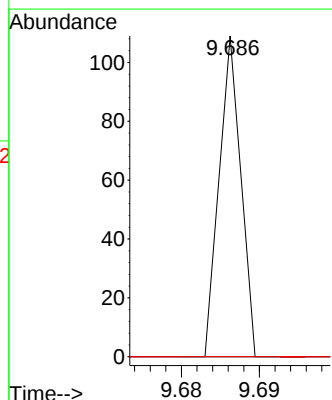
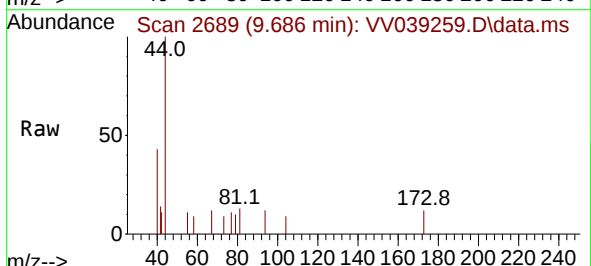
Tgt Ion:104 Resp: 21

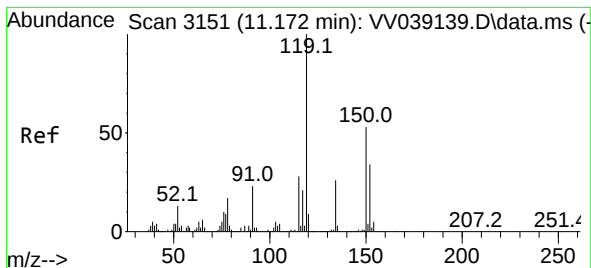
Ion Ratio Lower Upper

104 100

78 0.0 39.8 59.6#

103 0.0 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: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

MW10

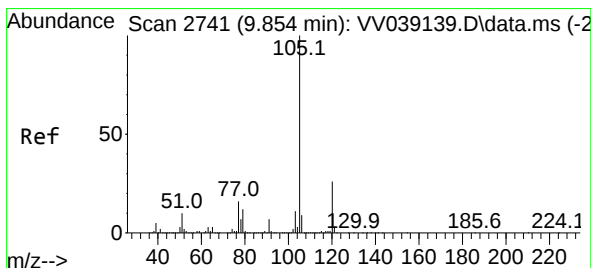
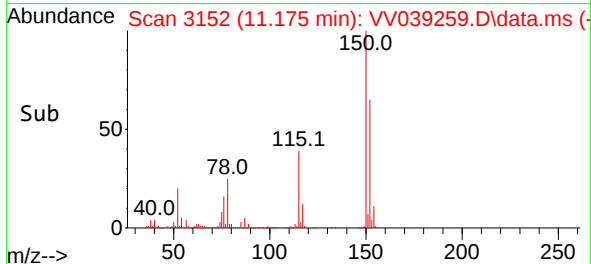
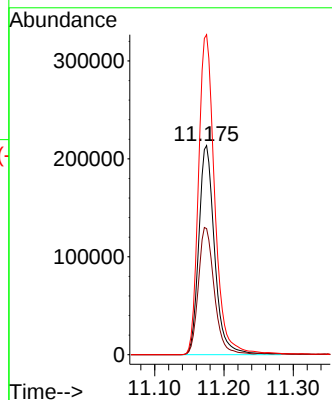
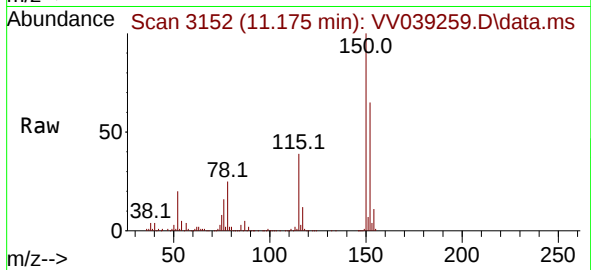
Tgt Ion:152 Resp: 339907

Ion Ratio Lower Upper

152 100

115 61.1 44.8 134.4

150 156.5 0.0 353.8



#73

Isopropylbenzene

Concen: 0.460 ug/l

RT: 9.860 min Scan# 2743

Delta R.T. 0.006 min

Lab File: VV039259.D

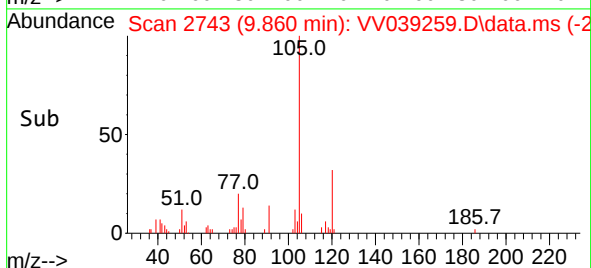
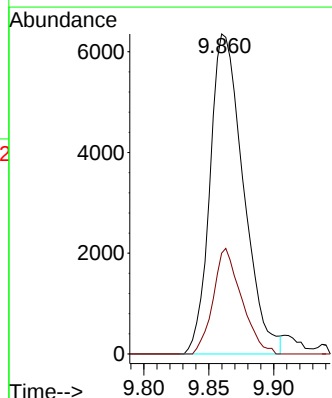
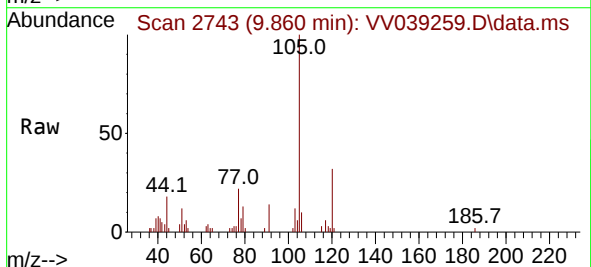
Acq: 03 Oct 2025 18:49

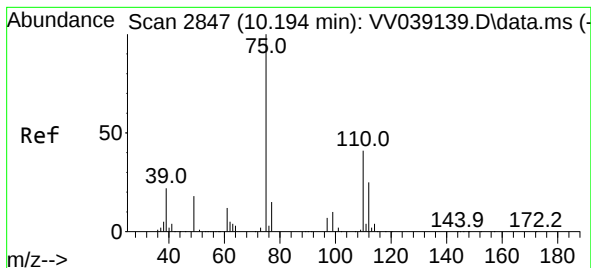
Tgt Ion:105 Resp: 11345

Ion Ratio Lower Upper

105 100

120 28.0 13.1 39.1





#76

1,2,3-Trichloropropane

Concen: 17.728 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

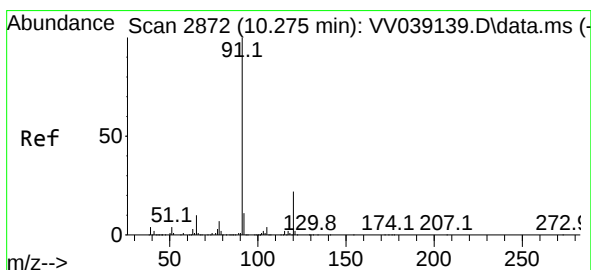
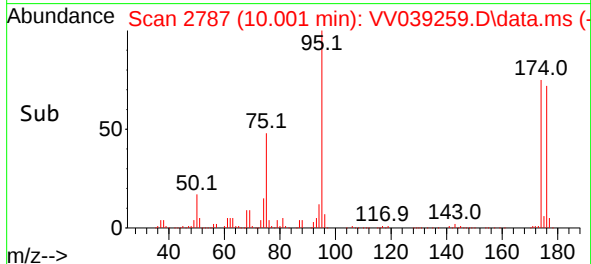
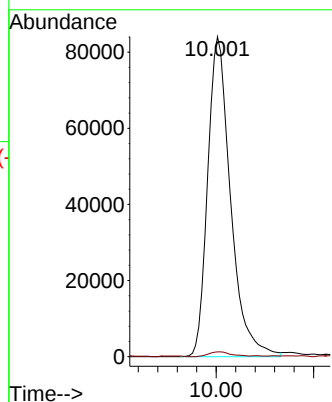
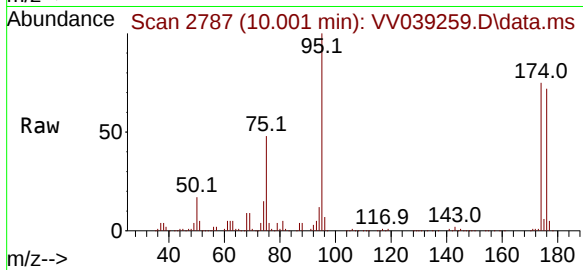
MW10

Tgt Ion: 75 Resp: 137198

Ion Ratio Lower Upper

75 100

77 1.5 11.3 33.8#



#78

n-propylbenzene

Concen: 0.622 ug/l

RT: 10.291 min Scan# 2877

Delta R.T. 0.016 min

Lab File: VV039259.D

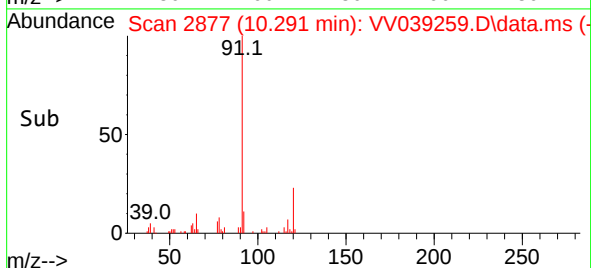
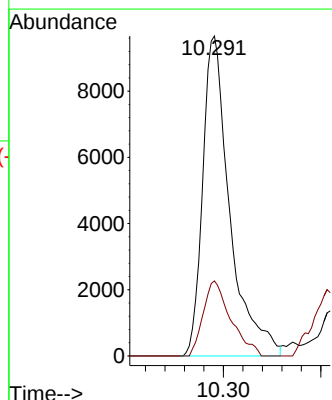
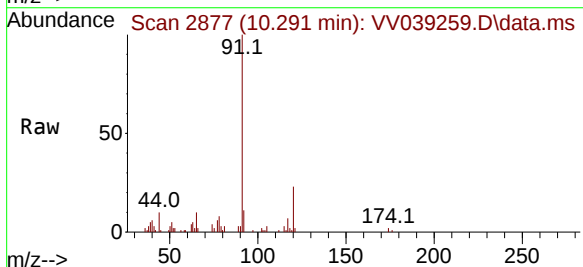
Acq: 03 Oct 2025 18:49

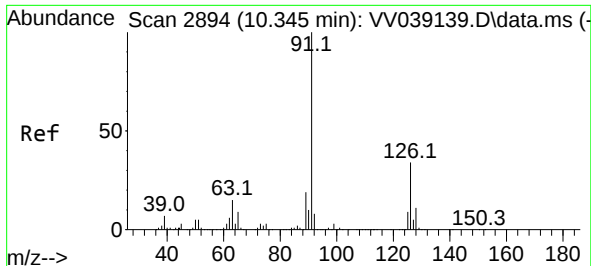
Tgt Ion: 91 Resp: 18671

Ion Ratio Lower Upper

91 100

120 23.8 11.1 33.3





#79

2-Chlorotoluene

Concen: 1.039 ug/l

RT: 10.291 min Scan# 21

Delta R.T. -0.055 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

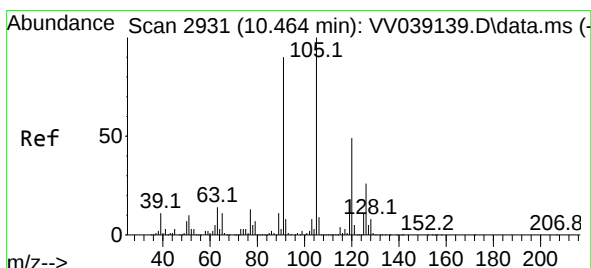
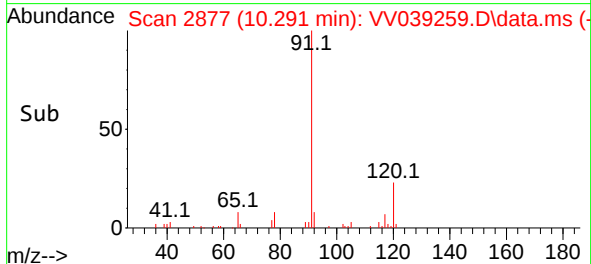
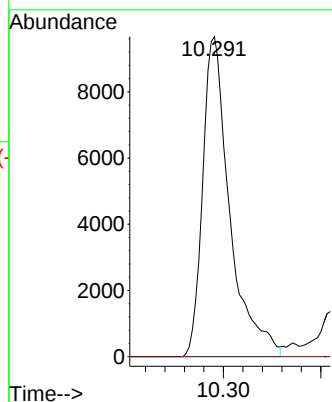
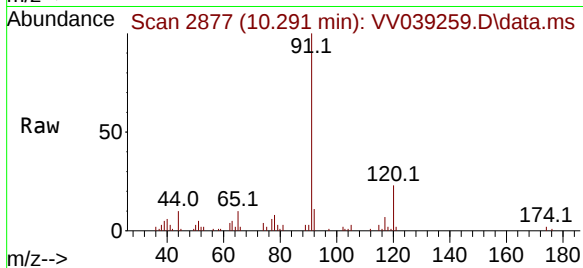
MW10

Tgt Ion: 91 Resp: 18671

Ion Ratio Lower Upper

91 100

126 0.0 16.7 50.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.756 ug/l

RT: 10.471 min Scan# 2933

Delta R.T. 0.006 min

Lab File: VV039259.D

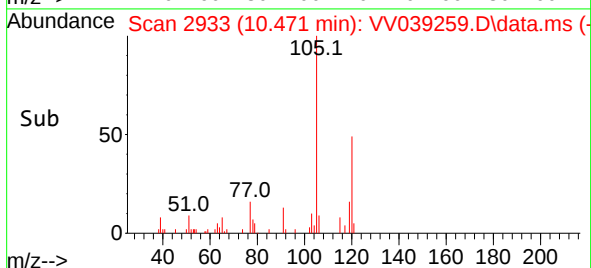
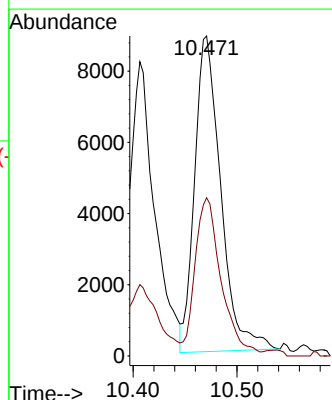
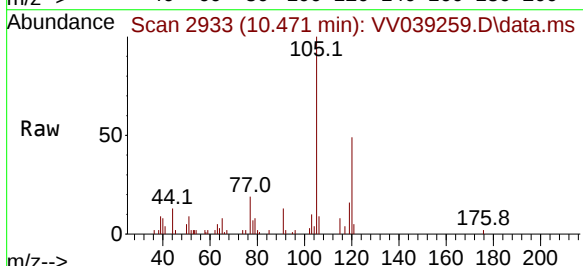
Acq: 03 Oct 2025 18:49

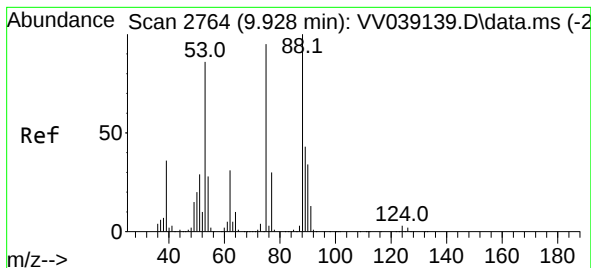
Tgt Ion:105 Resp: 15495

Ion Ratio Lower Upper

105 100

120 50.4 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 42.559 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.074 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

MW10

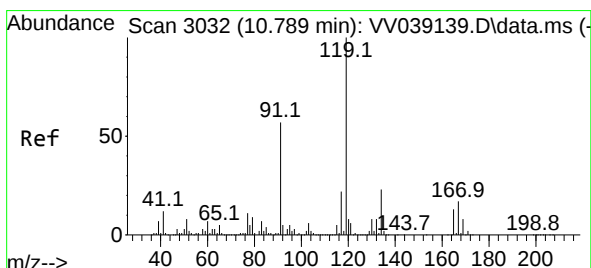
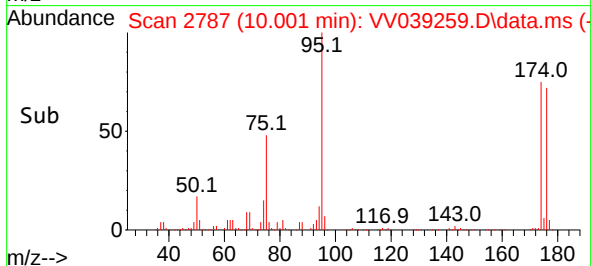
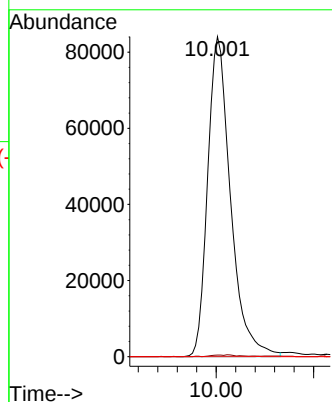
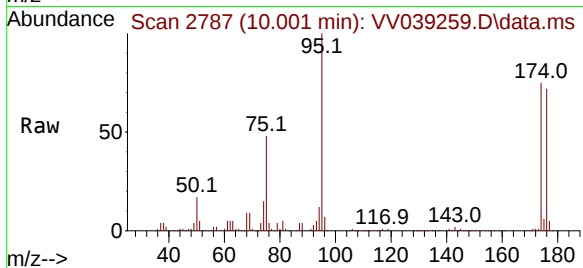
Tgt Ion: 75 Resp: 137198

Ion Ratio Lower Upper

75 100

53 0.3 72.5 108.7#

89 0.0 37.2 55.8#



#83

tert-Butylbenzene

Concen: 0.366 ug/l

RT: 10.844 min Scan# 3049

Delta R.T. 0.055 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

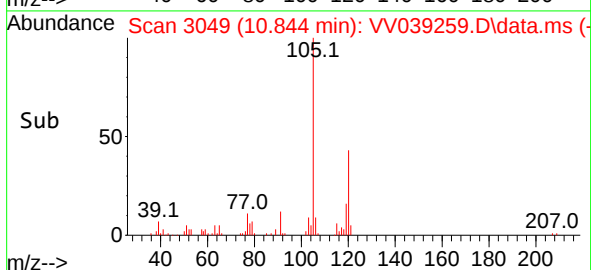
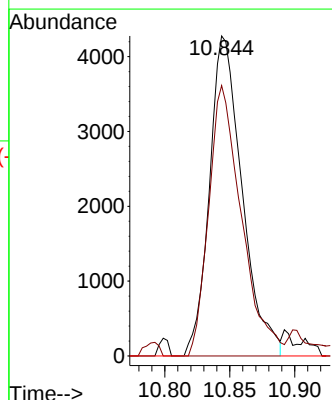
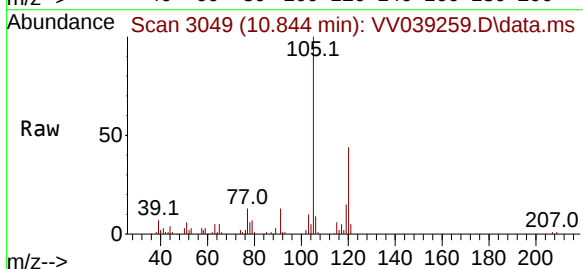
Tgt Ion: 119 Resp: 7473

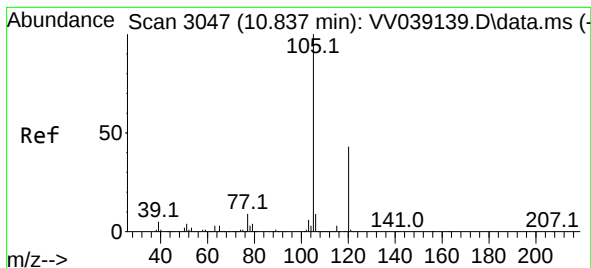
Ion Ratio Lower Upper

119 100

91 85.1 28.5 85.6

134 0.0 11.5 34.4#





#84

1,2,4-Trimethylbenzene

Concen: 2.388 ug/l

RT: 10.844 min Scan# 3049

Delta R.T. 0.006 min

Lab File: VV039259.D

Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

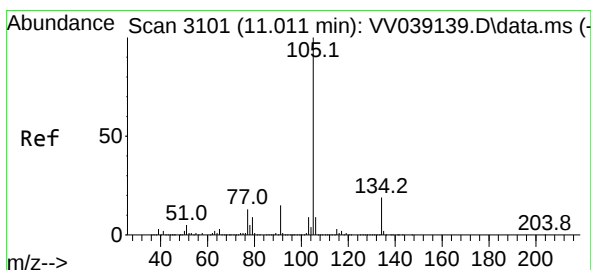
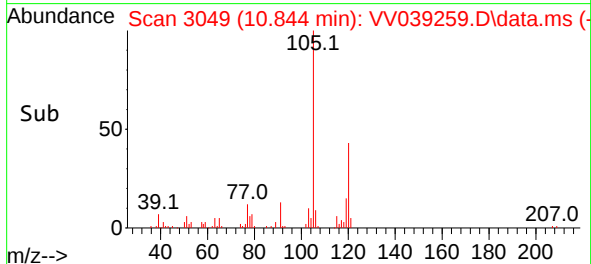
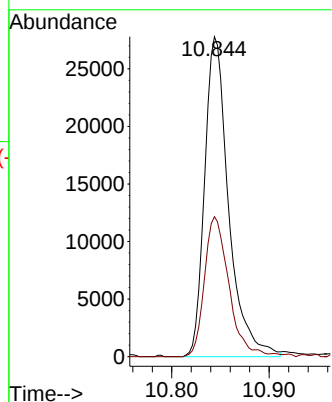
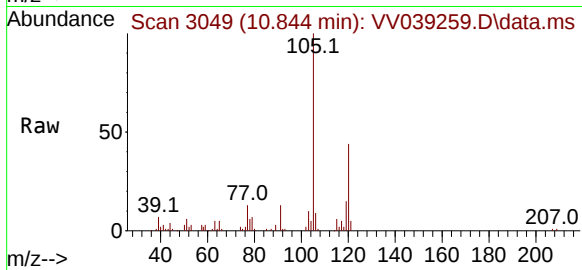
MW10

Tgt Ion:105 Resp: 47499

Ion Ratio Lower Upper

105 100

120 44.8 22.4 67.2



#85

sec-Butylbenzene

Concen: 1.753 ug/l

RT: 10.844 min Scan# 3049

Delta R.T. -0.167 min

Lab File: VV039259.D

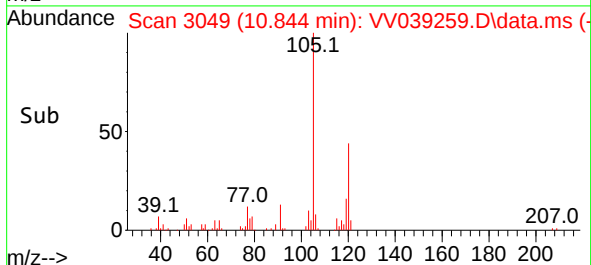
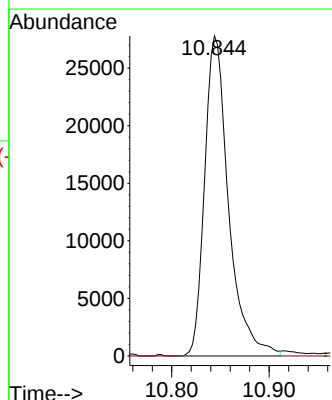
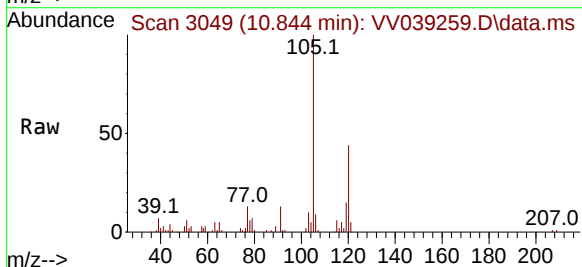
Acq: 03 Oct 2025 18:49

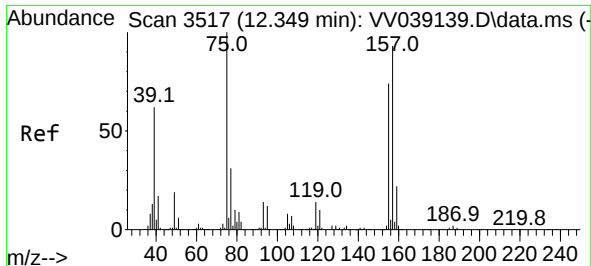
Tgt Ion:105 Resp: 47499

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.387 min Scan# 3

Delta R.T. 0.038 min

Lab File: VV039259.D

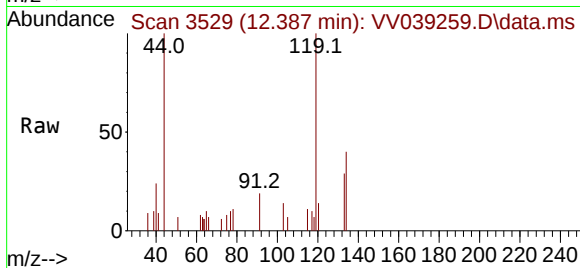
Acq: 03 Oct 2025 18:49

Instrument :

MSVOA_V

ClientSampleId :

MW10



Tgt Ion: 75 Resp: 141

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

