

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120225\
 Data File : VY023859.D
 Acq On : 02 Dec 2025 14:29
 Operator : SY/MD
 Sample : Q3742-06
 Misc : 2.12g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 03 01:04:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y112625S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 27 01:14:36 2025
 Response via : Initial Calibration

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

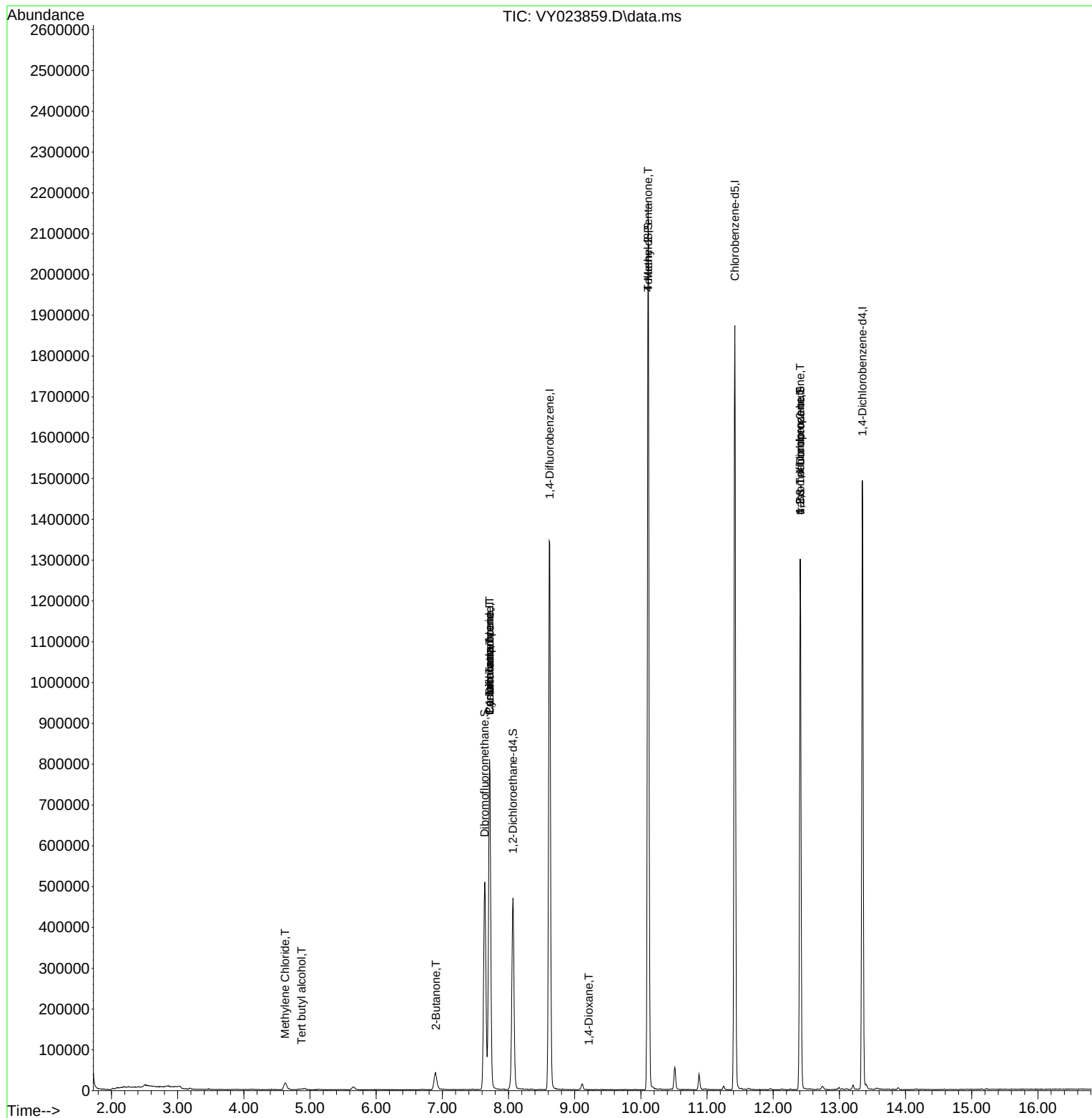
Internal Standards						
1) Pentafluorobenzene	7.713	168	636410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1167519	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	987282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	379120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	361522	58.332	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.660%	
35) Dibromofluoromethane	7.640	113	366141	52.939	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.880%	
50) Toluene-d8	10.109	98	1385526	50.435	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.880%	
62) 4-Bromofluorobenzene	12.408	95	384883	42.580	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 85.160%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.872	59	1118	2.196	ug/l #	73
20) Methylene Chloride	4.622	84	12115	1.605	ug/l	93
25) 2-Butanone	6.902	43	2540	1.166	ug/l	98
31) Cyclohexane	7.713	56	14927	1.253	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	49978	4.713	ug/l #	49
38) Carbon Tetrachloride	7.713	117	61927	5.320	ug/l #	16
49) 1,4-Dioxane	9.213	88	52	1.111	ug/l #	25
51) 4-Methyl-2-Pentanone	10.109	43	6172	1.258	ug/l #	1
76) 1,2,3-Trichloropropane	12.408	75	200571	60.836	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	200571	128.590	ug/l #	14

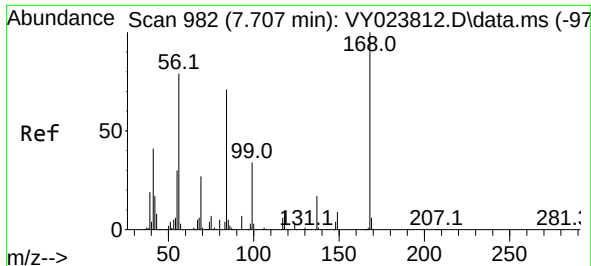
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120225\
Data File : VY023859.D
Acq On : 02 Dec 2025 14:29
Operator : SY/MD
Sample : Q3742-06
Misc : 2.12g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Dec 03 01:04:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y112625S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 27 01:14:36 2025
Response via : Initial Calibration

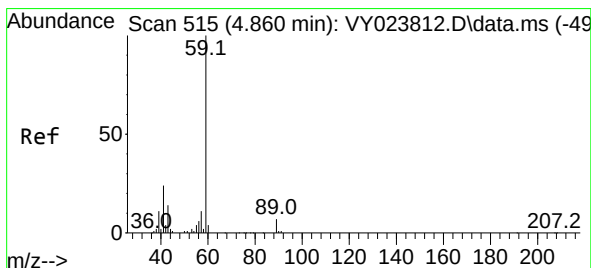
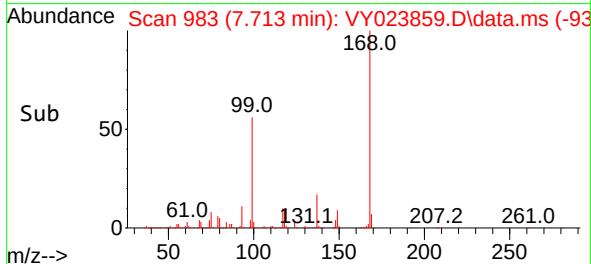
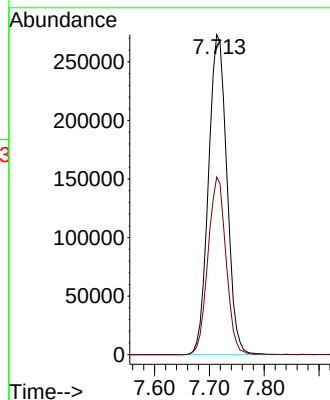
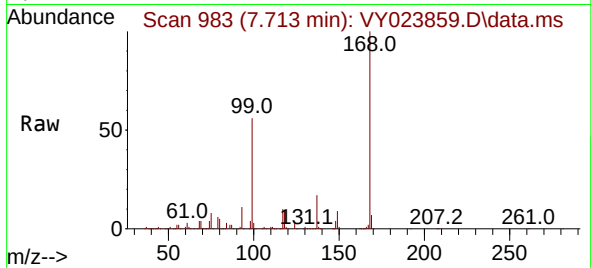




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023859.D
Acq: 02 Dec 2025 14:29

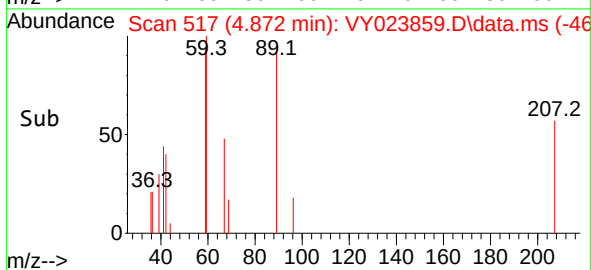
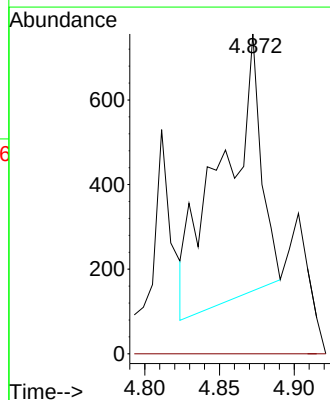
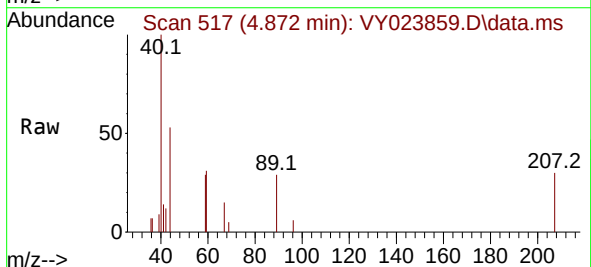
Instrument :
MSVOA_Y
ClientSampleId :

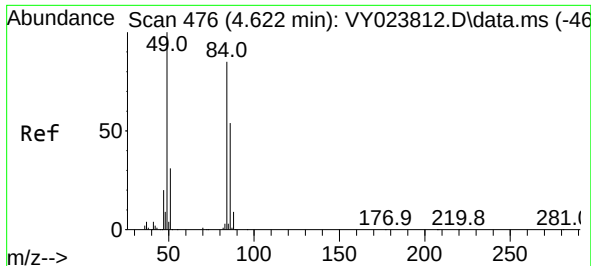
Tgt Ion:168 Resp: 636410
Ion Ratio Lower Upper
168 100
99 55.5 44.0 66.0



#11
Tert butyl alcohol
Concen: 2.196 ug/l
RT: 4.872 min Scan# 517
Delta R.T. 0.012 min
Lab File: VY023859.D
Acq: 02 Dec 2025 14:29

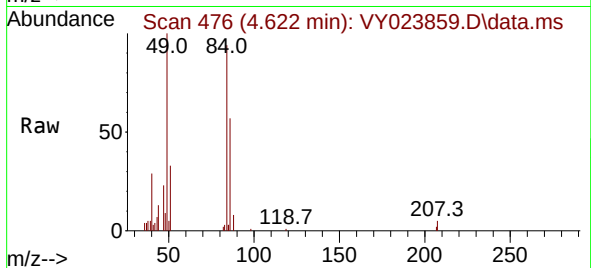
Tgt Ion: 59 Resp: 1118
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



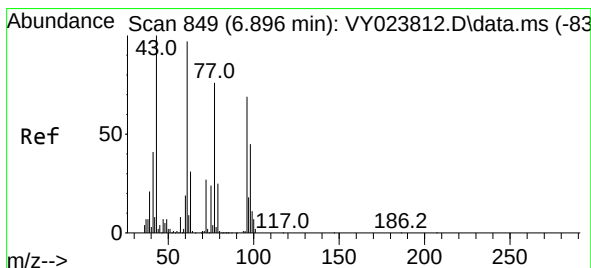
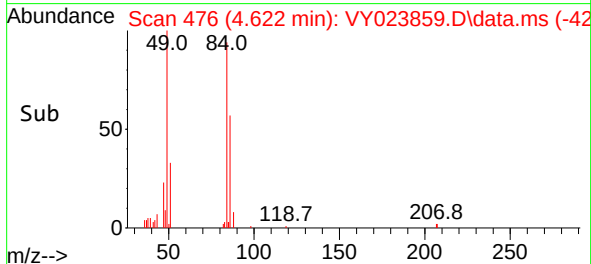
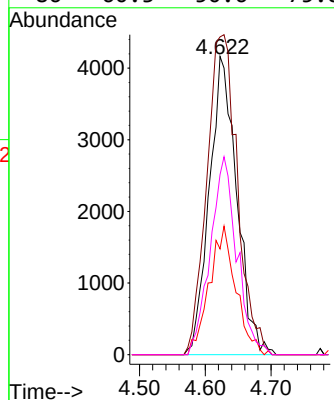


#20
Methylene Chloride
Concen: 1.605 ug/l
RT: 4.622 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023859.D
Acq: 02 Dec 2025 14:29

Instrument :
MSVOA_Y
ClientSampleId :

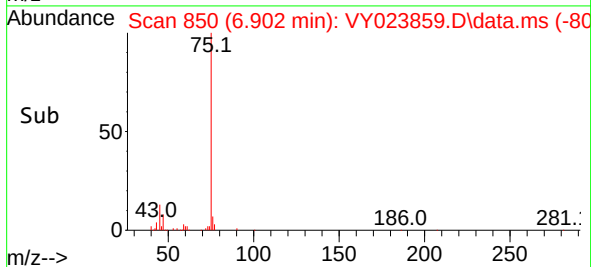
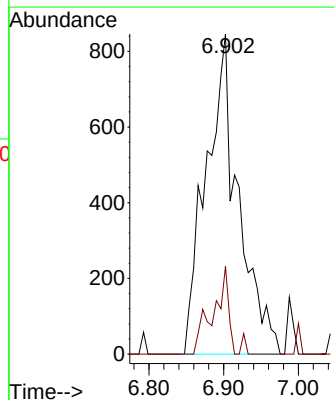
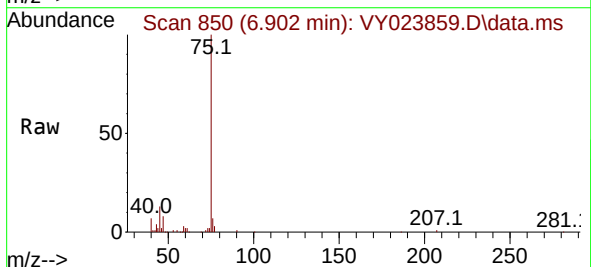


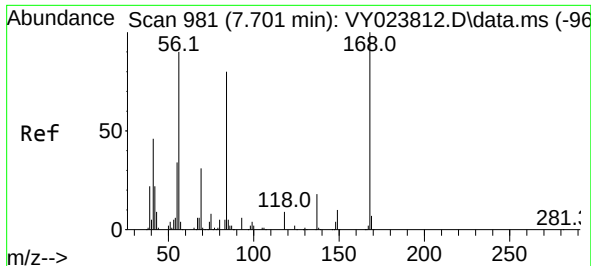
Tgt Ion:	84	Resp:	12115
Ion	Ratio	Lower	Upper
84	100		
49	106.5	94.0	141.0
51	35.5	29.2	43.8
86	60.3	50.6	75.8



#25
2-Butanone
Concen: 1.166 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY023859.D
Acq: 02 Dec 2025 14:29

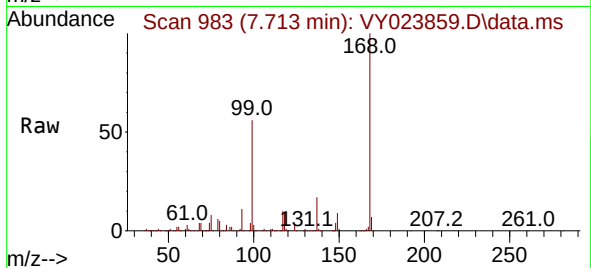
Tgt Ion:	43	Resp:	2540
Ion	Ratio	Lower	Upper
43	100		
72	27.4	21.3	31.9



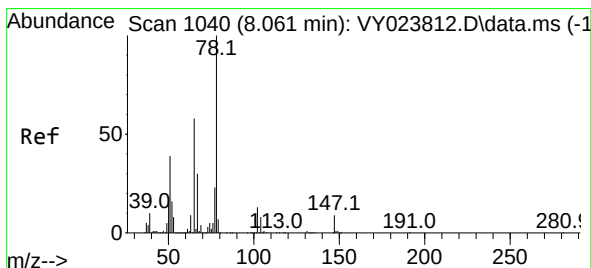
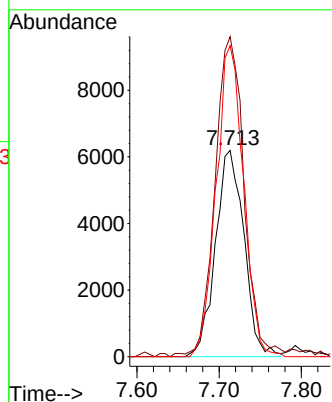
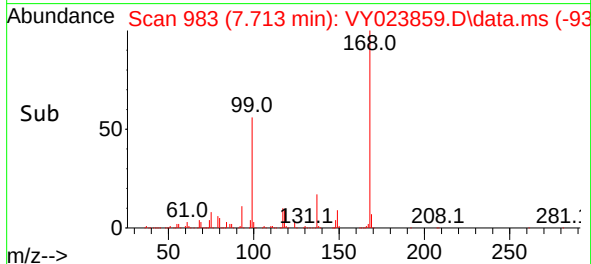


#31
Cyclohexane
Concen: 1.253 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023859.D
Acq: 02 Dec 2025 14:29

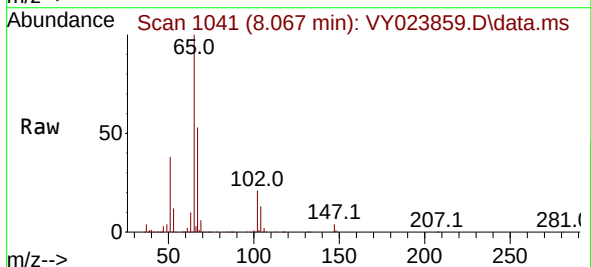
Instrument :
MSVOA_Y
ClientSampleId :



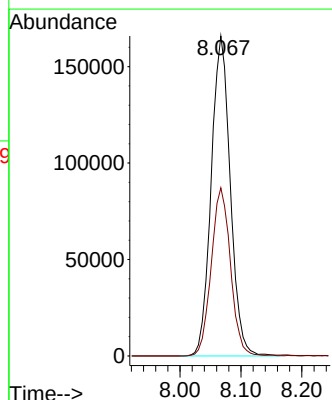
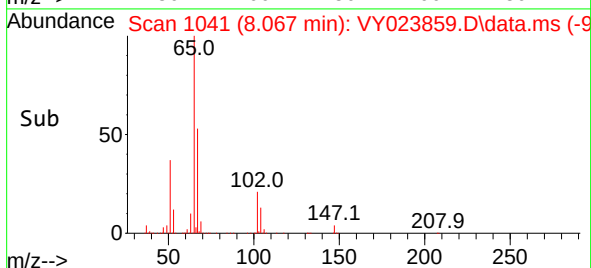
Tgt Ion: 56 Resp: 14927
Ion Ratio Lower Upper
56 100
69 153.6 27.8 41.6#
84 150.7 71.8 107.8#

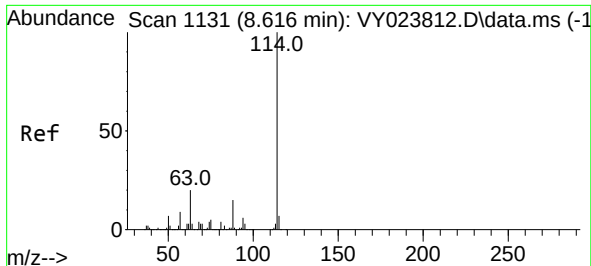


#33
1,2-Dichloroethane-d4
Concen: 58.332 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023859.D
Acq: 02 Dec 2025 14:29



Tgt Ion: 65 Resp: 361522
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Instrument :

MSVOA_Y

ClientSampleId :

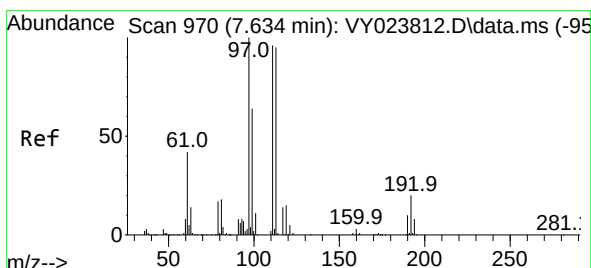
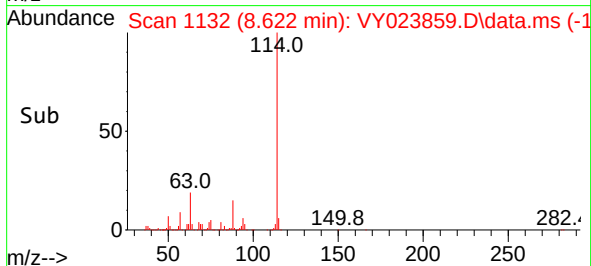
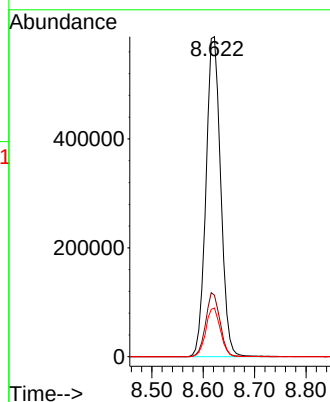
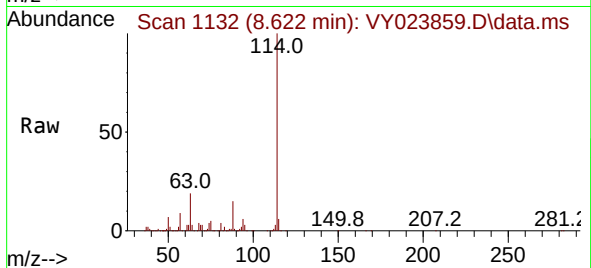
Tgt Ion:114 Resp: 1167519

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.4

88 15.2 0.0 30.8



#35

Dibromofluoromethane

Concen: 52.939 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

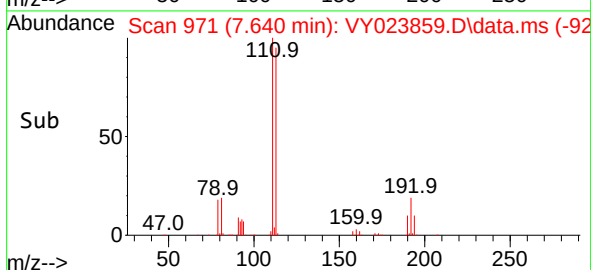
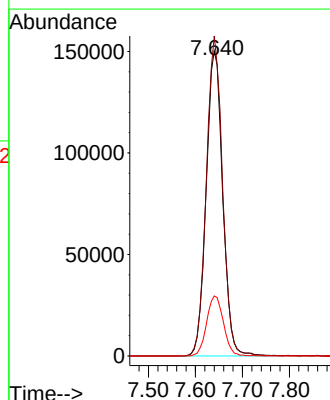
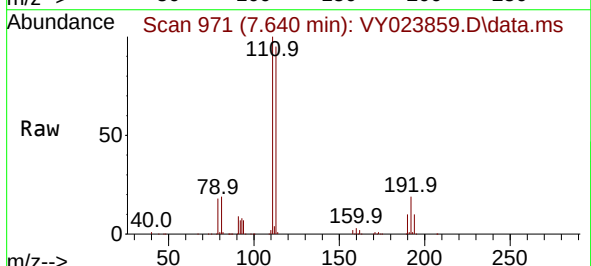
Tgt Ion:113 Resp: 366141

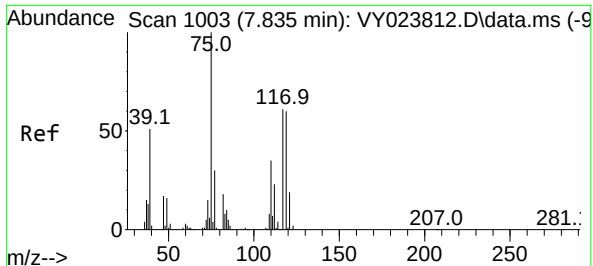
Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 20.1 15.8 23.8





#36

1,1-Dichloropropene

Concen: 4.713 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

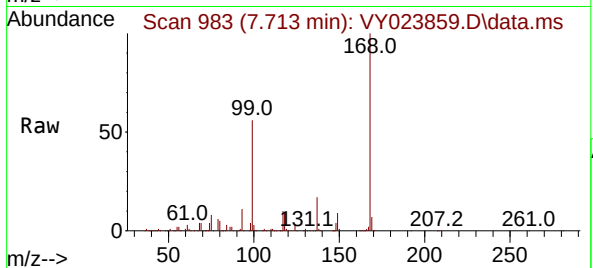
Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Instrument :

MSVOA_Y

ClientSampleId :



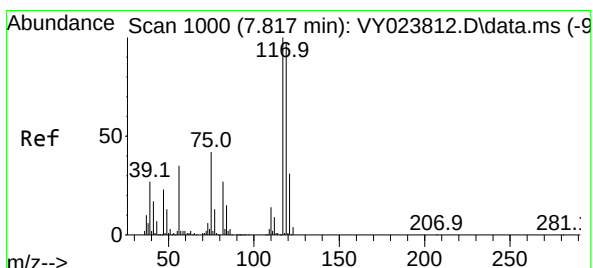
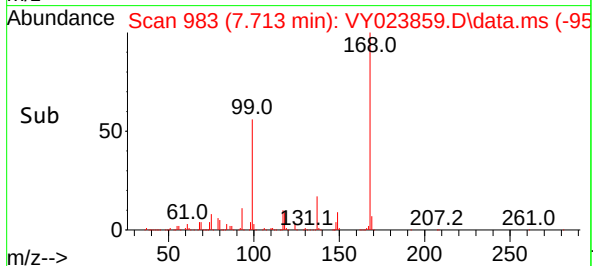
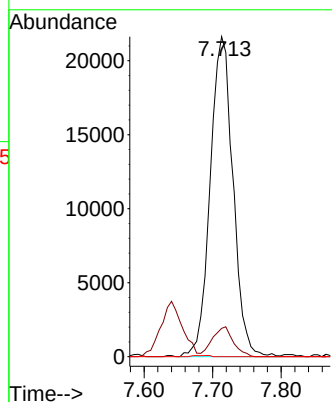
Tgt Ion: 75 Resp: 49978

Ion Ratio Lower Upper

75 100

110 8.5 17.6 52.8#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.320 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

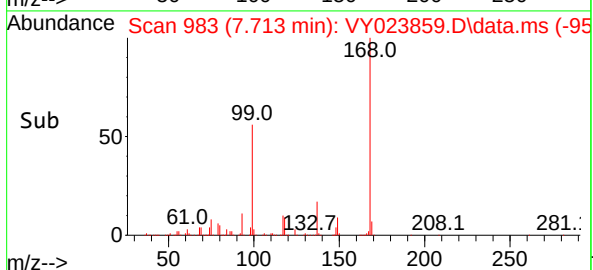
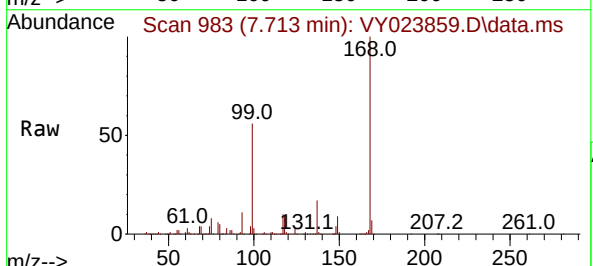
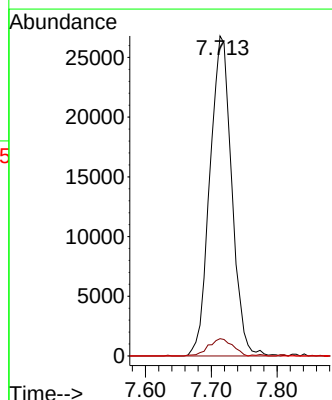
Tgt Ion: 117 Resp: 61927

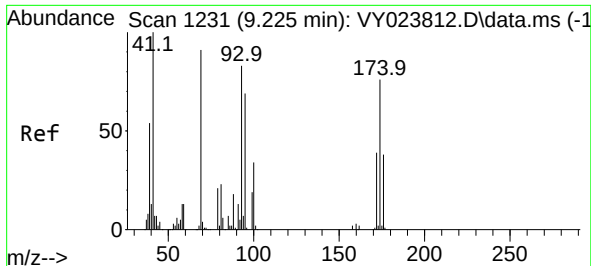
Ion Ratio Lower Upper

117 100

119 5.4 77.3 115.9#

121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 1.111 ug/l

RT: 9.213 min Scan# 11

Delta R.T. -0.012 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Instrument :

MSVOA_Y

ClientSampleId :

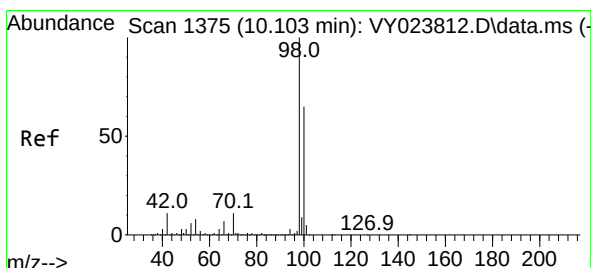
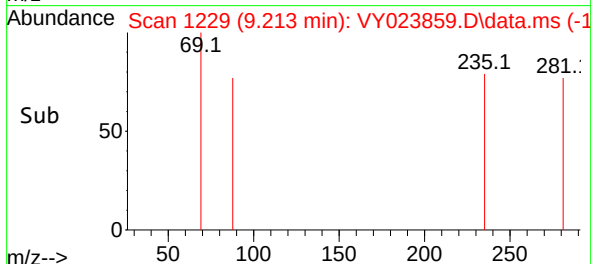
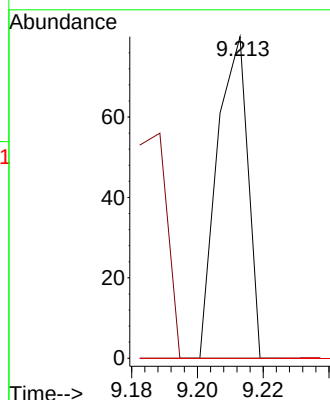
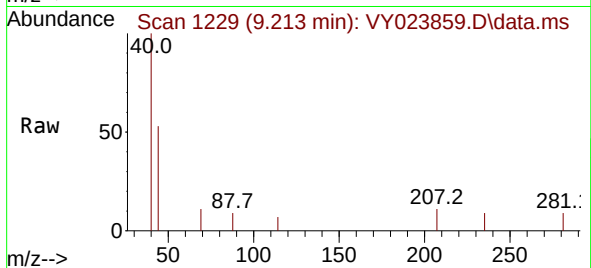
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 0.0 24.6 37.0#

58 0.0 53.4 80.2#



#50

Toluene-d8

Concen: 50.435 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023859.D

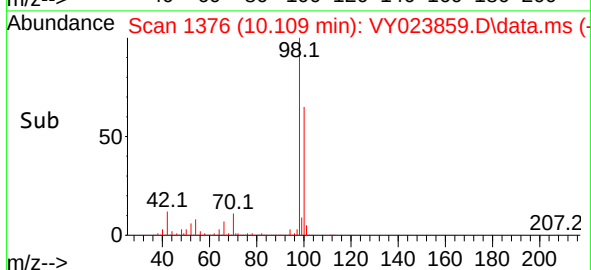
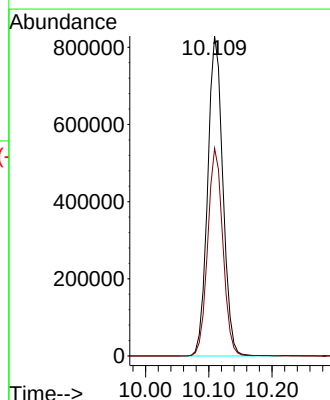
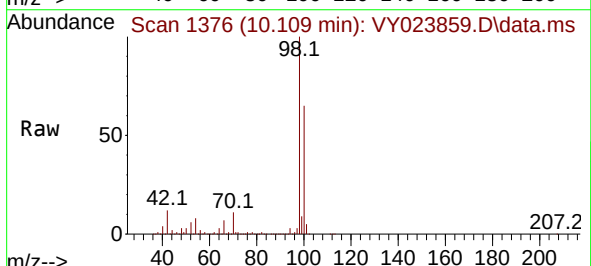
Acq: 02 Dec 2025 14:29

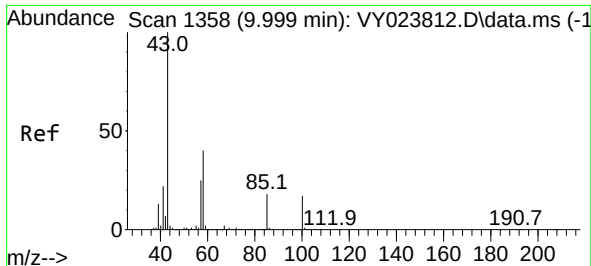
Tgt Ion: 98 Resp: 1385526

Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 1.258 ug/l

RT: 10.109 min Scan# 1

Delta R.T. 0.110 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Instrument :

MSVOA_Y

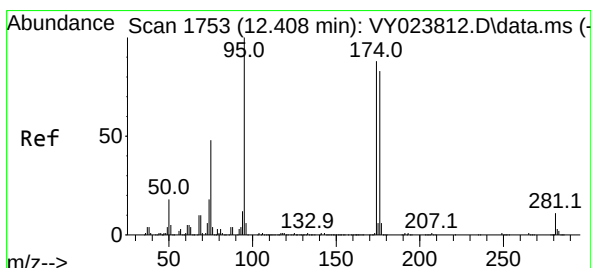
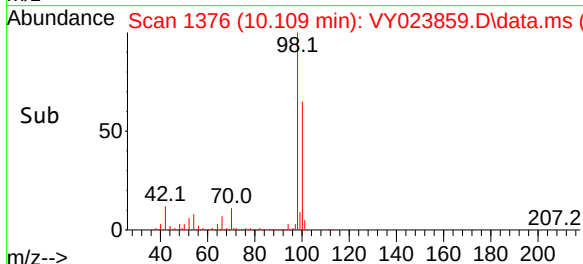
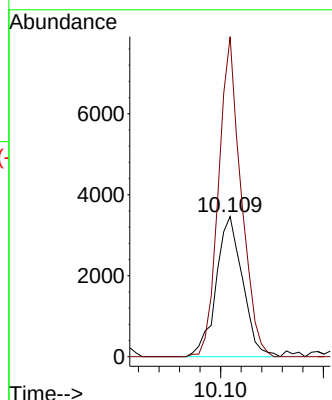
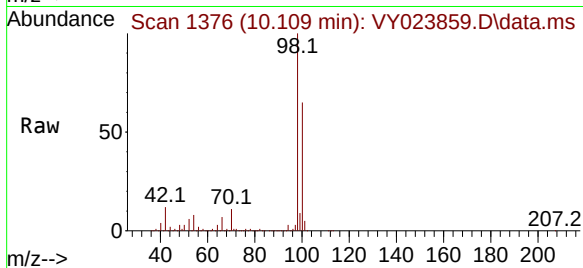
ClientSampleId :

Tgt Ion: 43 Resp: 6172

Ion Ratio Lower Upper

43 100

58 194.7 32.4 48.6#



#62

4-Bromofluorobenzene

Concen: 42.580 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

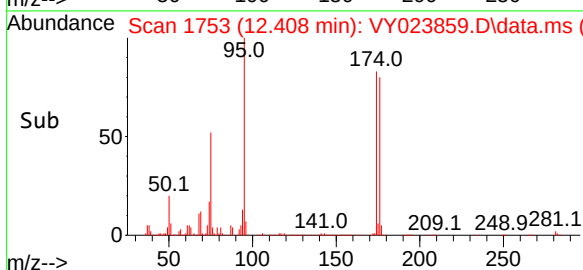
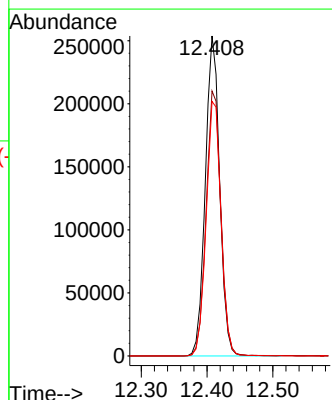
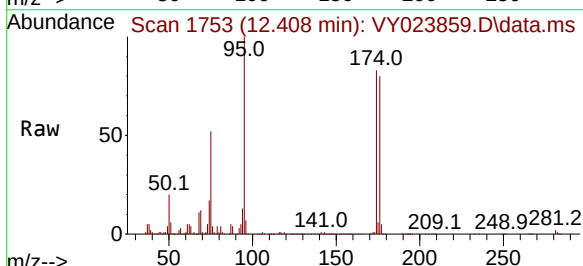
Tgt Ion: 95 Resp: 384883

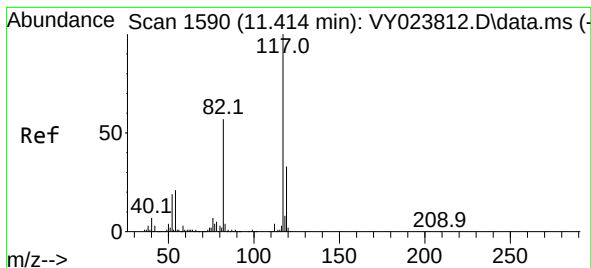
Ion Ratio Lower Upper

95 100

174 85.4 0.0 168.6

176 82.3 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Instrument :

MSVOA_Y

ClientSampleId :

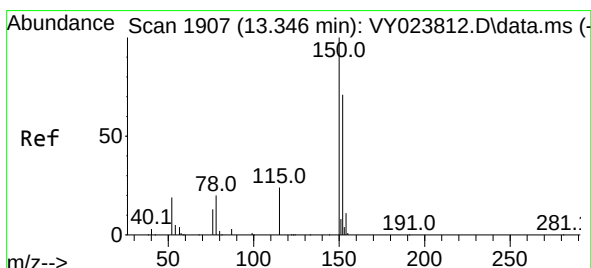
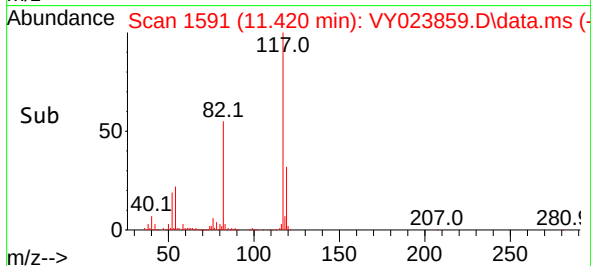
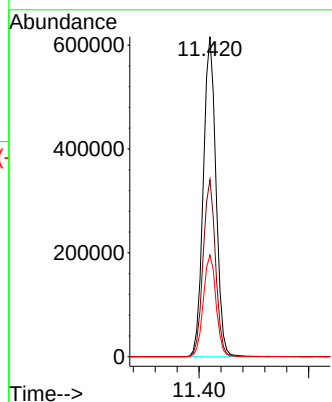
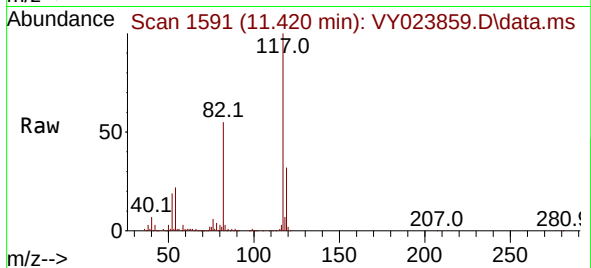
Tgt Ion:117 Resp: 987282

Ion Ratio Lower Upper

117 100

82 55.3 45.4 68.0

119 31.8 26.0 39.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

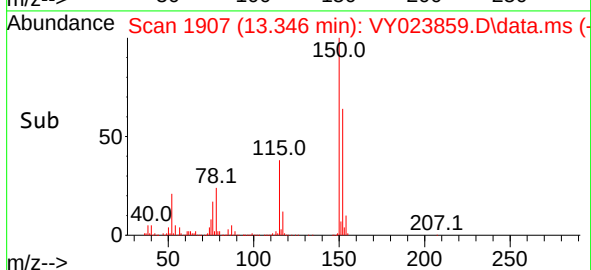
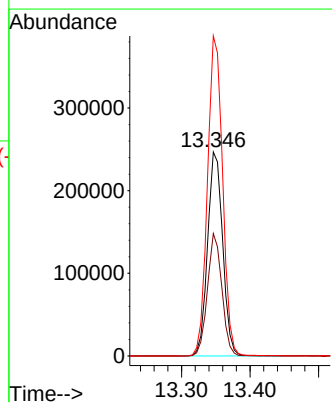
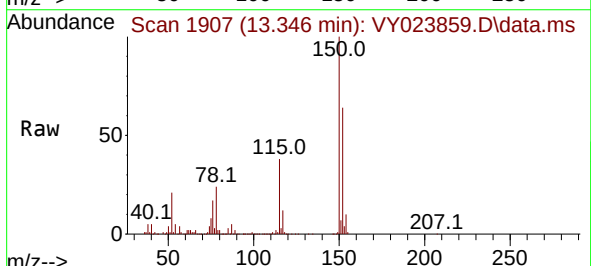
Tgt Ion:152 Resp: 379120

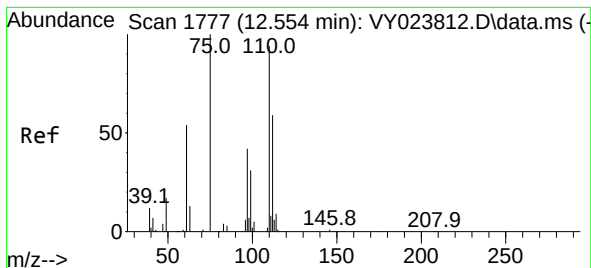
Ion Ratio Lower Upper

152 100

115 57.3 28.7 86.3

150 156.9 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 60.836 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Instrument :

MSVOA_Y

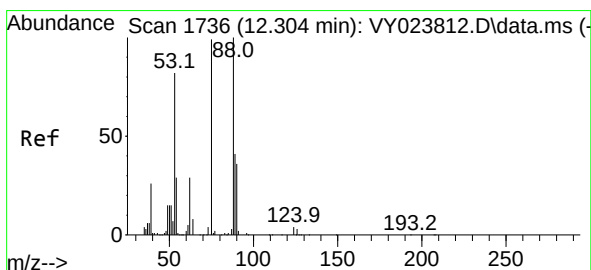
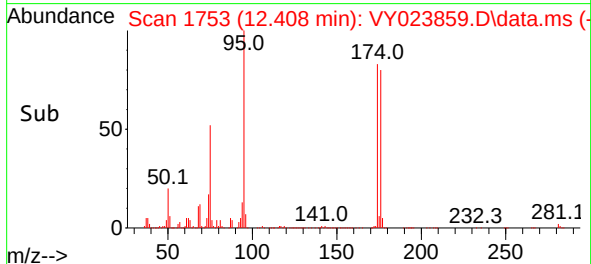
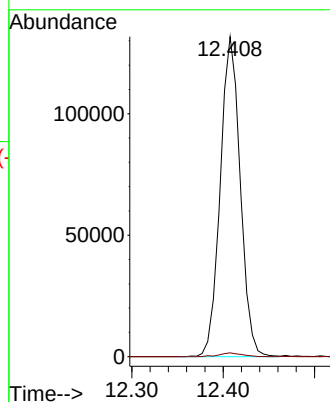
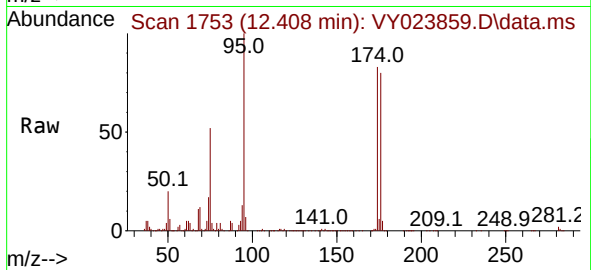
ClientSampleId :

Tgt Ion: 75 Resp: 200571

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 128.590 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY023859.D

Acq: 02 Dec 2025 14:29

Tgt Ion: 75 Resp: 200571

Ion Ratio Lower Upper

75 100

53 0.2 71.3 106.9#

89 0.0 37.0 55.4#

