

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022936.D
 Acq On : 03 Jul 2025 12:39
 Operator : SY/MD
 Sample : Q2473-04
 Misc : 7.27g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PIT#4RE

Quant Time: Jul 04 03:18:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

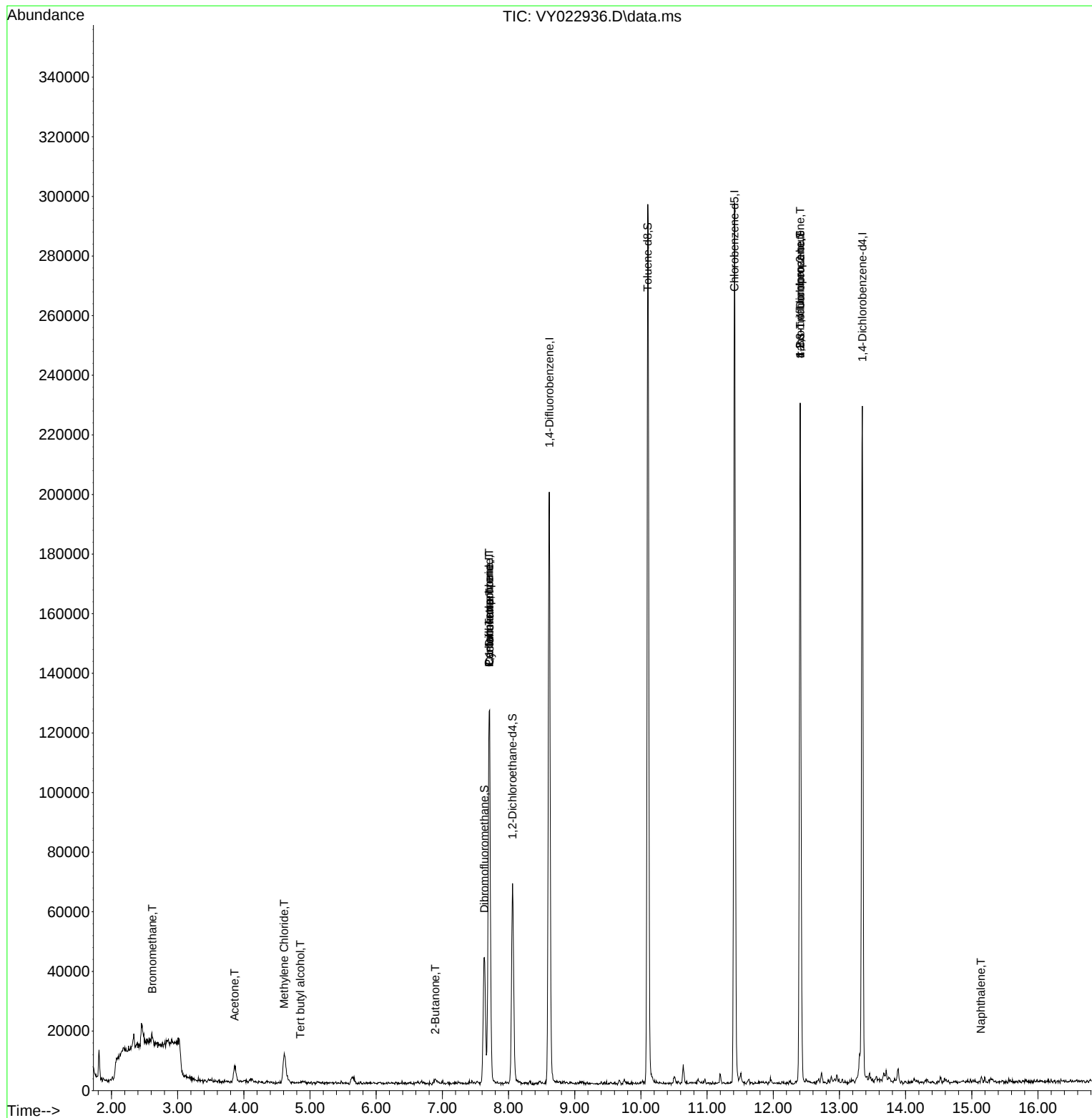
Internal Standards						
1) Pentafluorobenzene	7.707	168	95586	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	165245	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	149379	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	56106	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	52063	48.801	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.600%		
35) Dibromofluoromethane	7.634	113	31217	31.064	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	62.120%		
50) Toluene-d8	10.103	98	195347	48.987	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.980%		
62) 4-Bromofluorobenzene	12.408	95	59387	46.326	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	92.660%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.617	94	2172	1.417	ug/l	96
11) Tert butyl alcohol	4.854	59	372	5.244	ug/l #	92
16) Acetone	3.860	43	10436	51.756	ug/l #	88
20) Methylene Chloride	4.610	84	6900	5.419	ug/l #	86
25) 2-Butanone	6.890	43	1603	5.462	ug/l #	63
31) Cyclohexane	7.713	56	2550	1.392	ug/l #	11
36) 1,1-Dichloropropene	7.707	75	8600	5.646	ug/l #	52
38) Carbon Tetrachloride	7.707	117	9745	6.063	ug/l #	17
76) 1,2,3-Trichloropropane	12.408	75	33541	58.557	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	33541	147.937	ug/l #	11
95) Naphthalene	15.139	128	1788	1.052	ug/l #	92

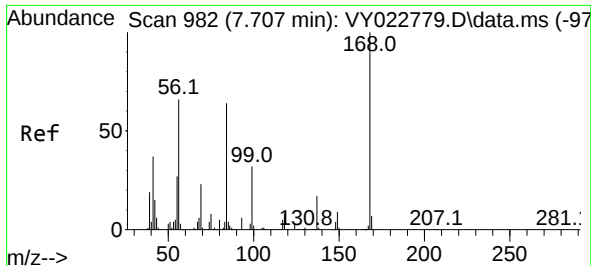
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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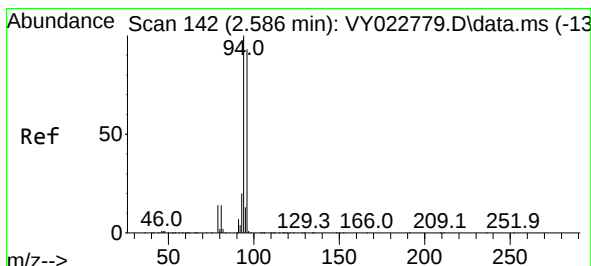
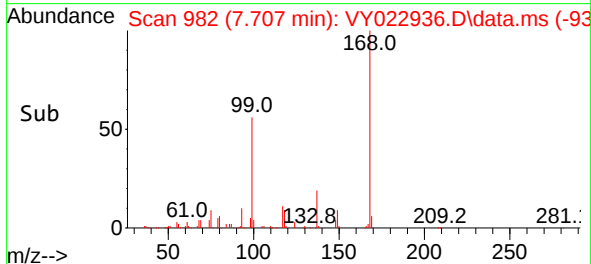
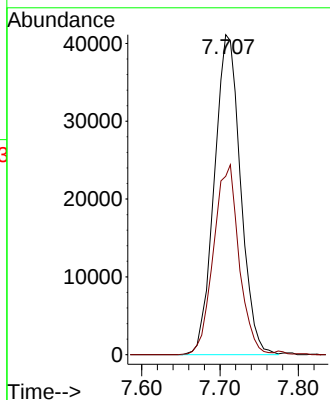
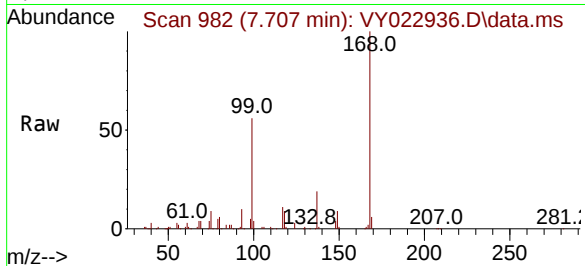




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

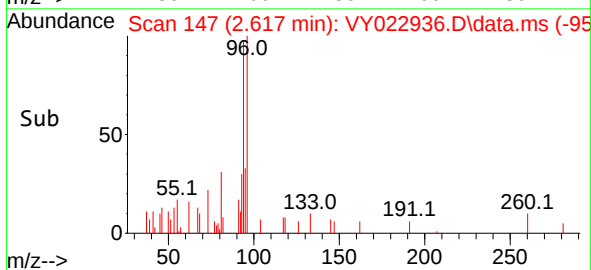
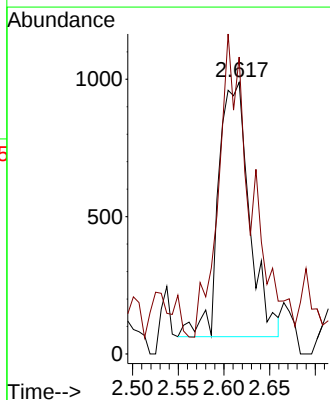
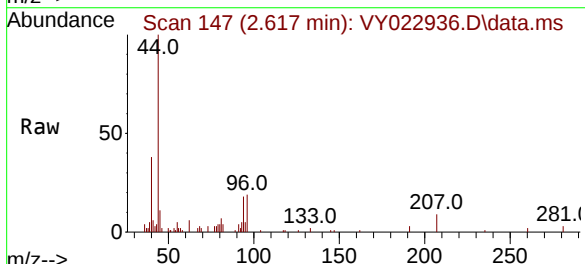
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4RE

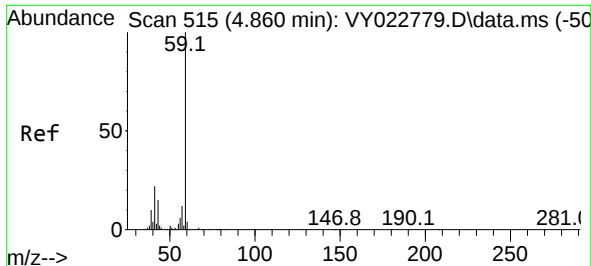
Tgt Ion:168 Resp: 95586
Ion Ratio Lower Upper
168 100
99 55.8 44.3 66.5



#5
Bromomethane
Concen: 1.417 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.018 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

Tgt Ion: 94 Resp: 2172
Ion Ratio Lower Upper
94 100
96 96.0 74.0 111.0





#11

Tert butyl alcohol

Concen: 5.244 ug/l

RT: 4.854 min Scan# 515

Delta R.T. -0.031 min

Lab File: VY022936.D

Acq: 03 Jul 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

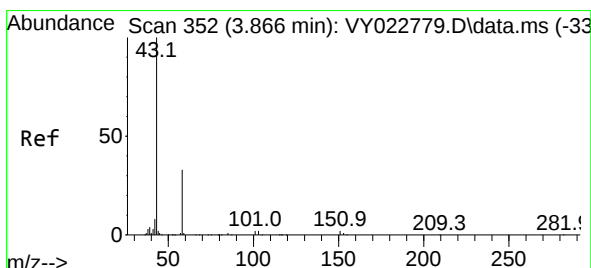
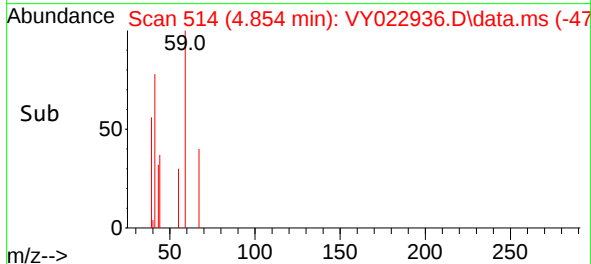
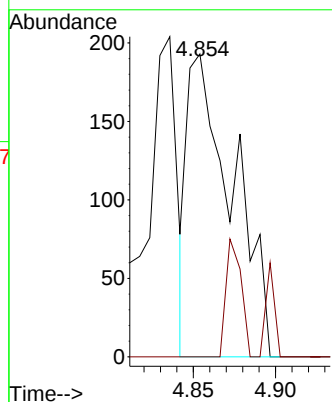
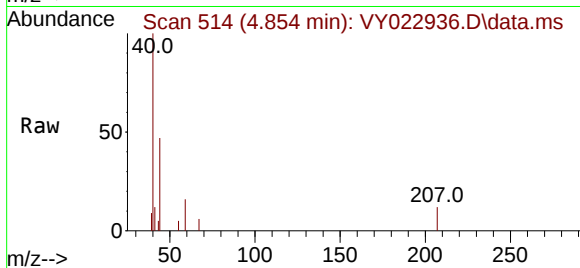
PIT#4RE

Tgt Ion: 59 Resp: 372

Ion Ratio Lower Upper

59 100

57 12.9 8.0 12.0#



#16

Acetone

Concen: 51.756 ug/l

RT: 3.860 min Scan# 351

Delta R.T. -0.018 min

Lab File: VY022936.D

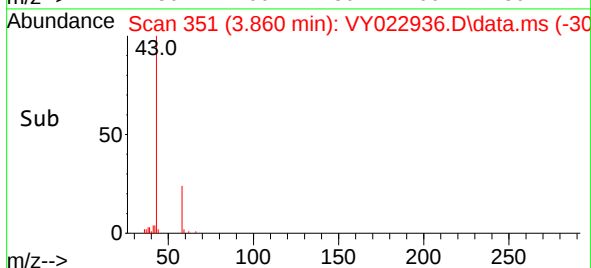
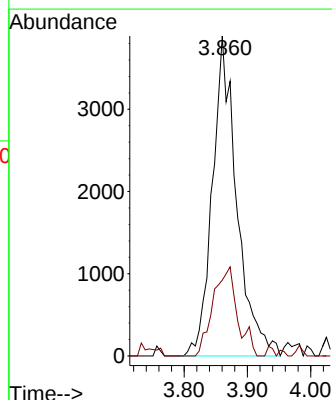
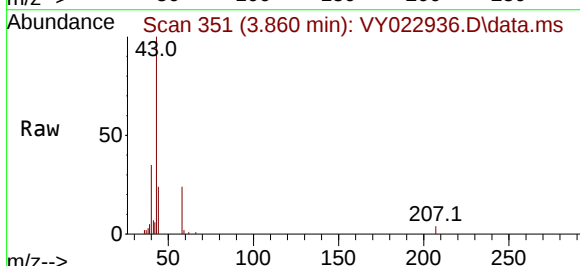
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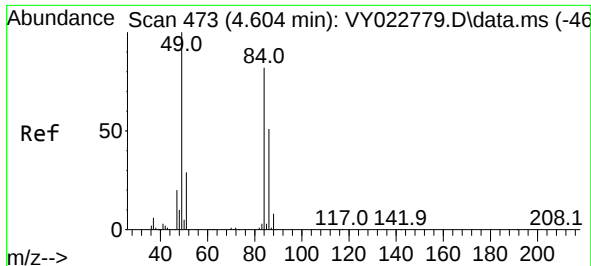
Tgt Ion: 43 Resp: 10436

Ion Ratio Lower Upper

43 100

58 23.7 24.0 36.0#

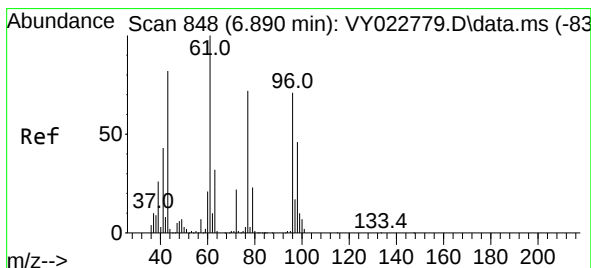
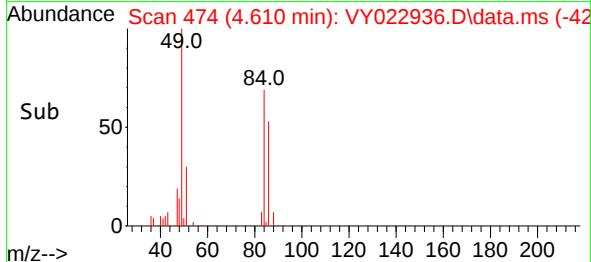
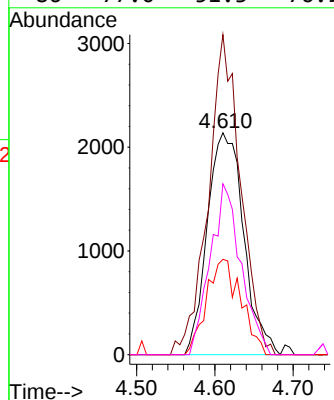
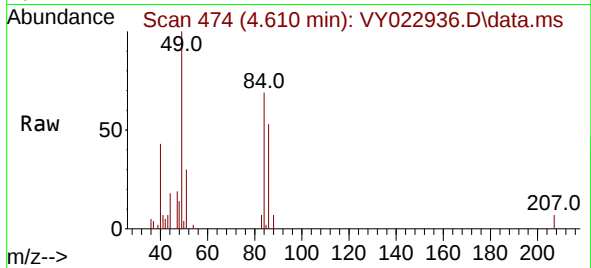




#20
Methylene Chloride
Concen: 5.419 ug/l
RT: 4.610 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

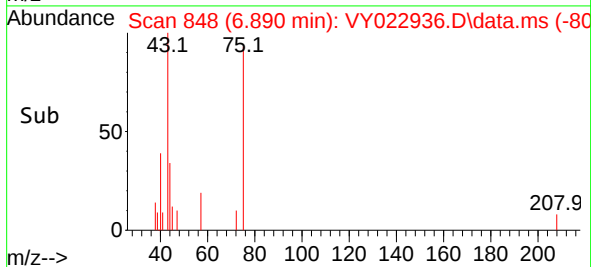
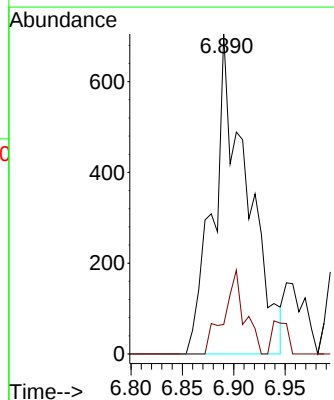
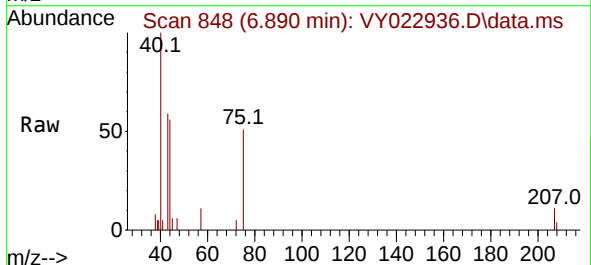
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4RE

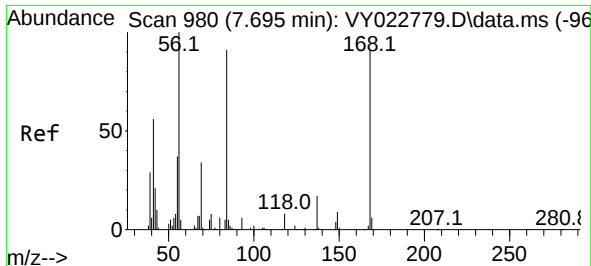
Tgt Ion:	84	Resp:	6900
Ion	Ratio	Lower	Upper
84	100		
49	144.2	101.9	152.9
51	43.0	29.8	44.8
86	77.0	51.3	76.9#



#25
2-Butanone
Concen: 5.462 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

Tgt Ion:	43	Resp:	1603
Ion	Ratio	Lower	Upper
43	100		
72	9.2	22.9	34.3#

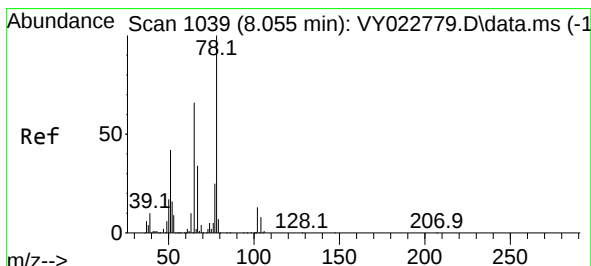
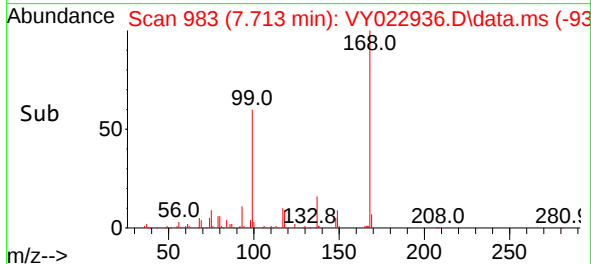
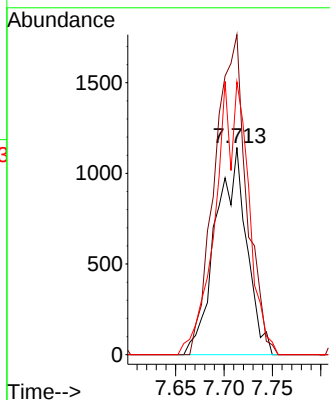
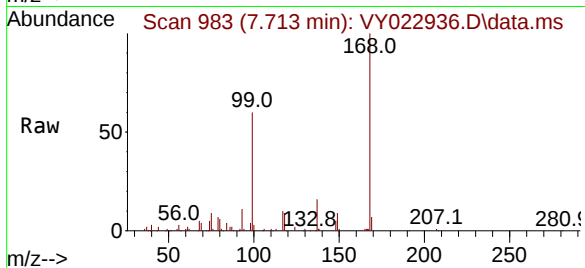




#31
Cyclohexane
Concen: 1.392 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

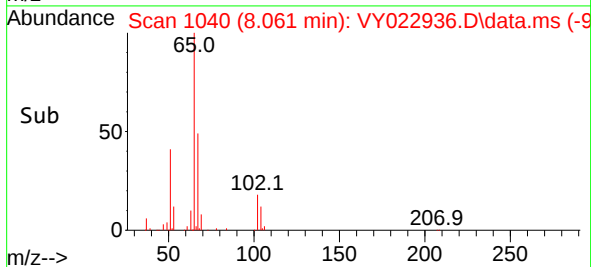
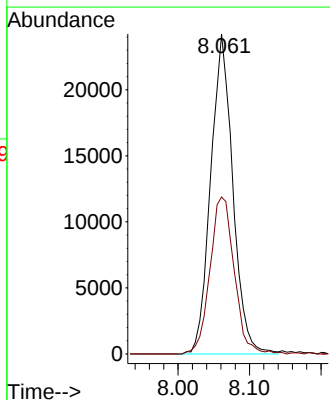
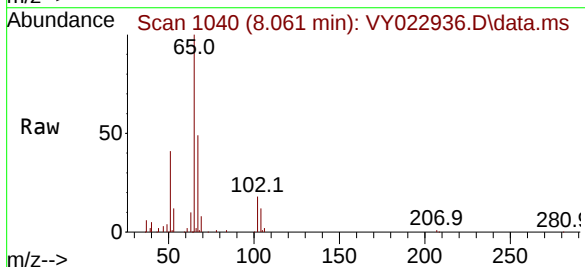
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4RE

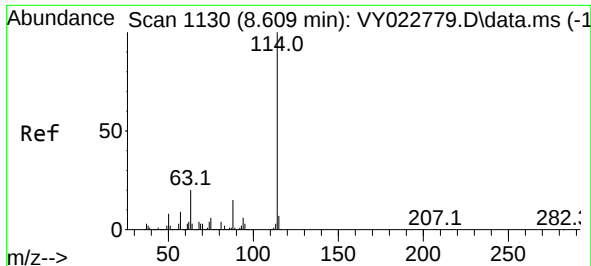
Tgt Ion: 56 Resp: 2550
Ion Ratio Lower Upper
56 100
69 154.4 27.0 40.6#
84 131.7 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 48.801 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

Tgt Ion: 65 Resp: 52063
Ion Ratio Lower Upper
65 100
67 53.8 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022936.D

Acq: 03 Jul 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

PIT#4RE

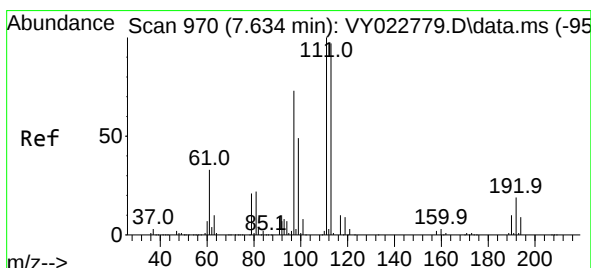
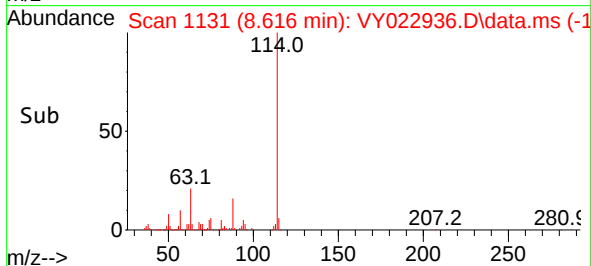
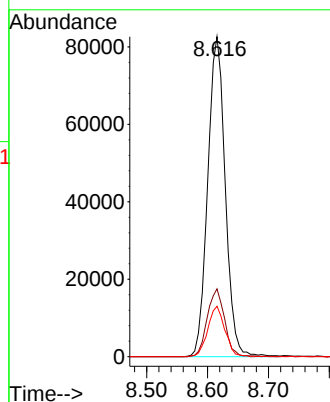
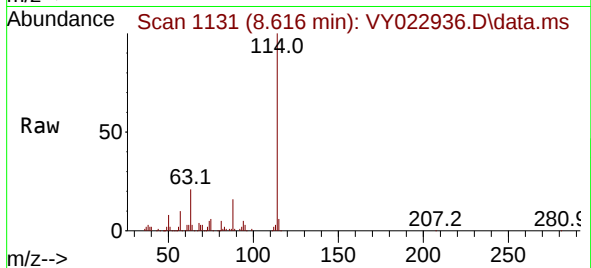
Tgt Ion:114 Resp: 165245

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

88 15.7 0.0 27.8



#35

Dibromofluoromethane

Concen: 31.064 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022936.D

Acq: 03 Jul 2025 12:39

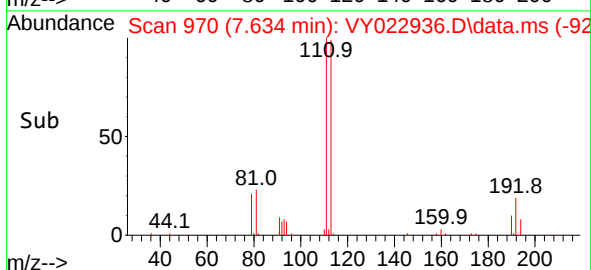
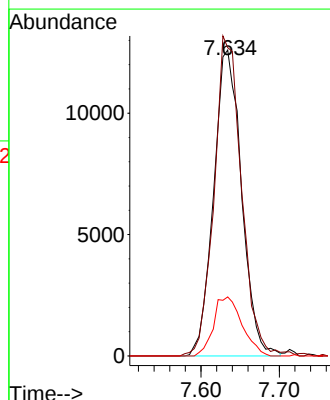
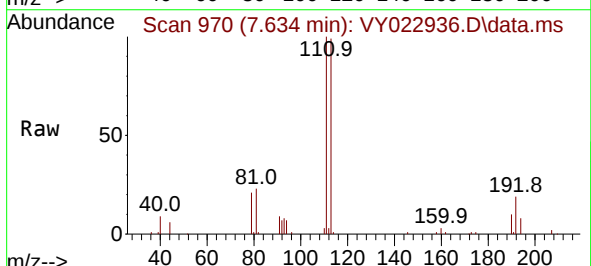
Tgt Ion:113 Resp: 31217

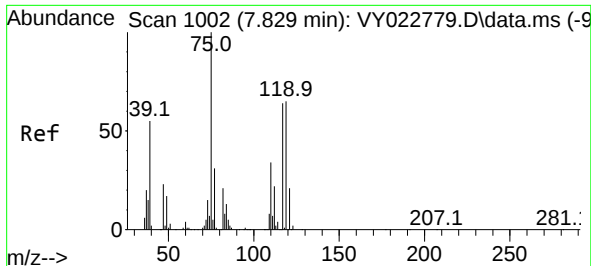
Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

192 19.7 14.2 21.2

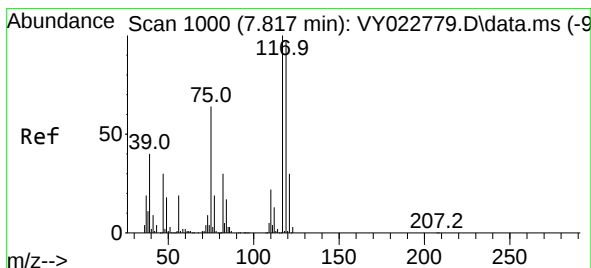
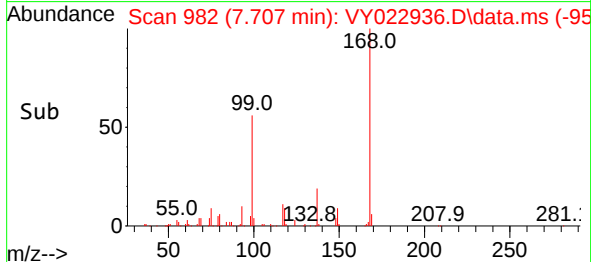
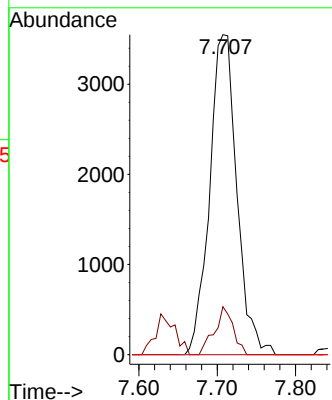
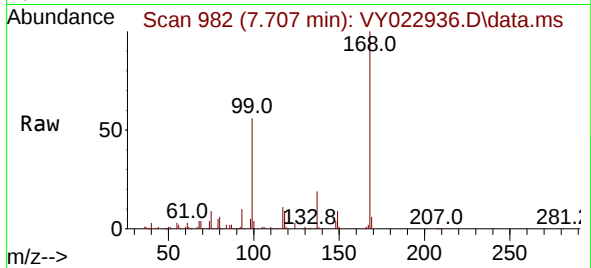




#36
1,1-Dichloropropene
Concen: 5.646 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

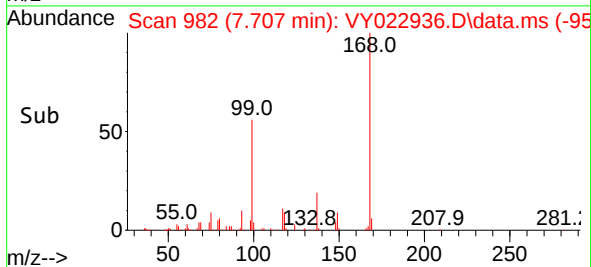
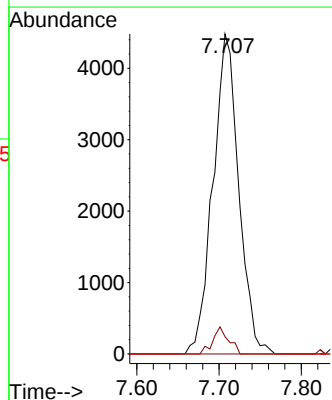
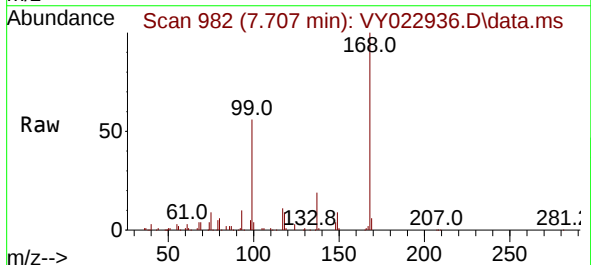
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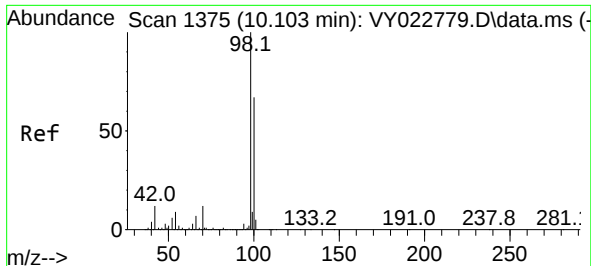
Tgt Ion: 75 Resp: 8600
Ion Ratio Lower Upper
75 100
110 10.2 16.9 50.7#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 6.063 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.116 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

Tgt Ion: 117 Resp: 9745
Ion Ratio Lower Upper
117 100
119 5.4 75.0 112.6#
121 0.0 25.0 37.4#

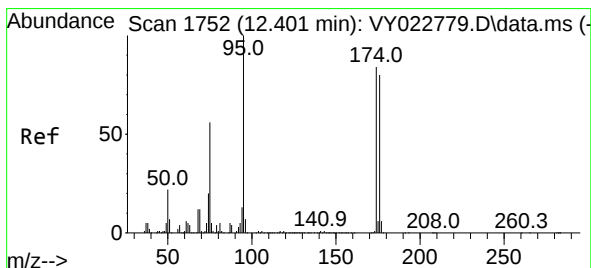
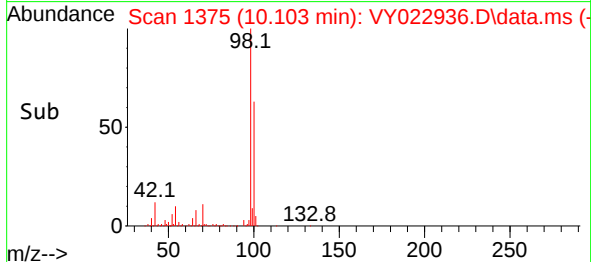
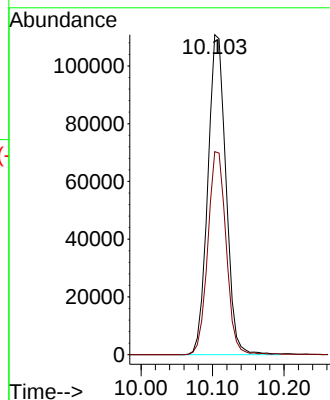
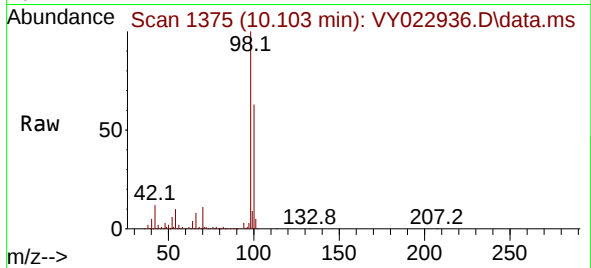




#50
Toluene-d8
Concen: 48.987 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

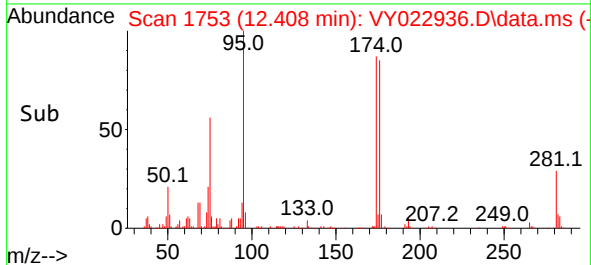
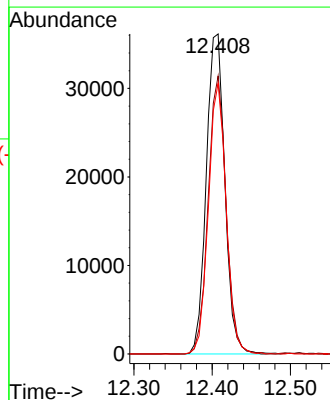
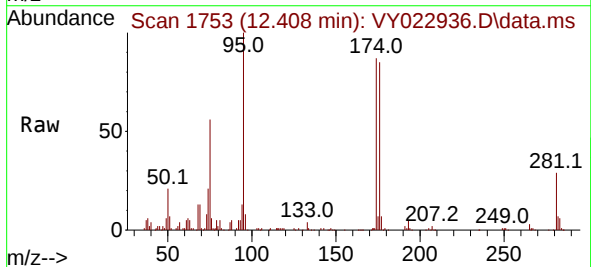
Instrument :
MSVOA_Y
ClientSampleId :
PIT#4RE

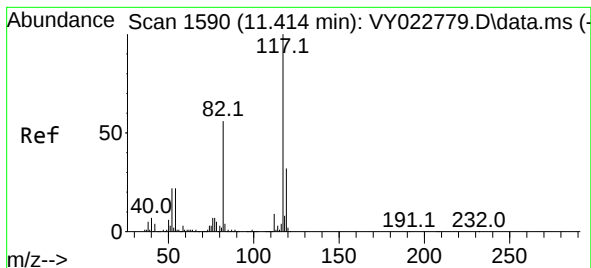
Tgt Ion: 98 Resp: 195347
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 46.326 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022936.D
Acq: 03 Jul 2025 12:39

Tgt Ion: 95 Resp: 59387
Ion Ratio Lower Upper
95 100
174 84.2 0.0 170.0
176 80.8 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022936.D

Acq: 03 Jul 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

PIT#4RE

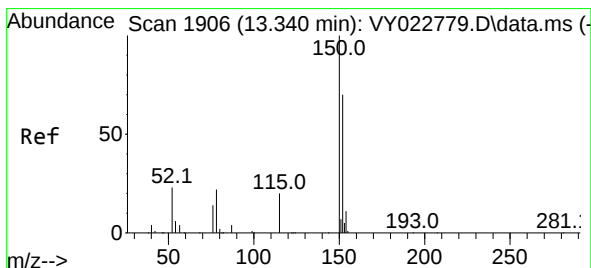
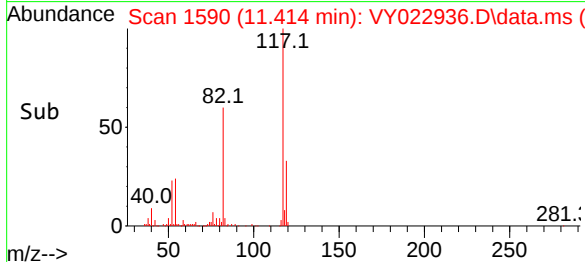
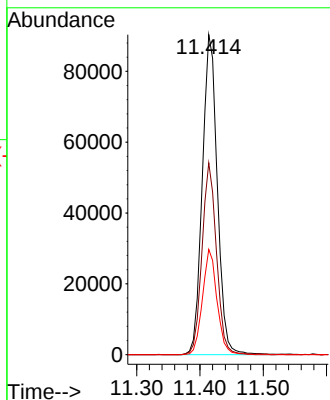
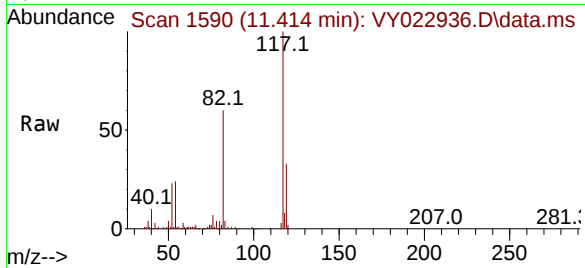
Tgt Ion:117 Resp: 149379

Ion Ratio Lower Upper

117 100

82 59.9 44.6 66.8

119 32.9 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022936.D

Acq: 03 Jul 2025 12:39

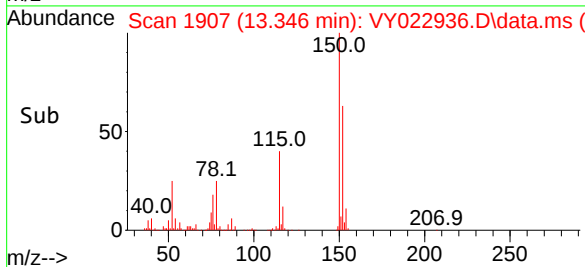
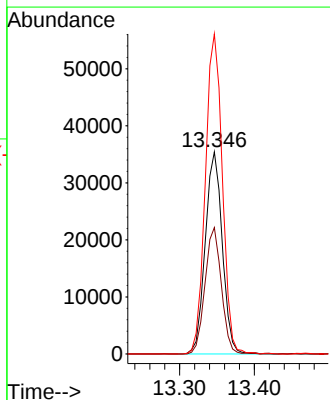
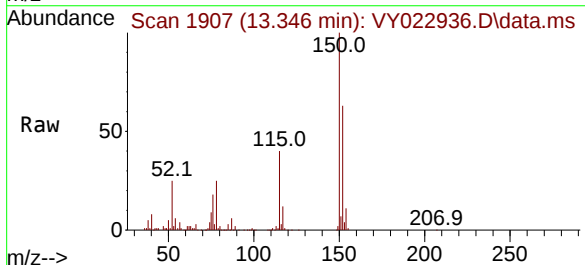
Tgt Ion:152 Resp: 56106

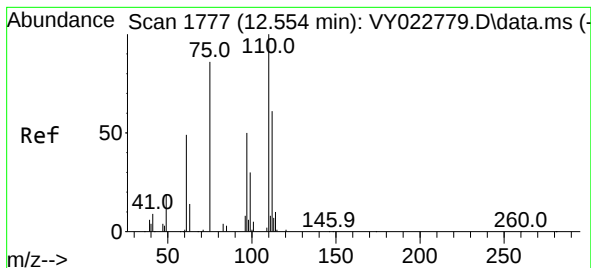
Ion Ratio Lower Upper

152 100

115 60.0 28.9 86.7

150 157.4 0.0 349.6

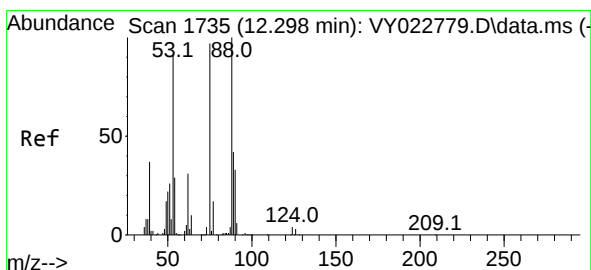
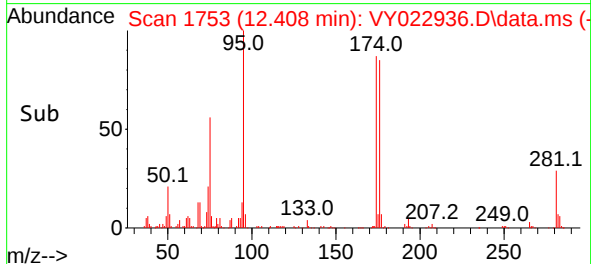
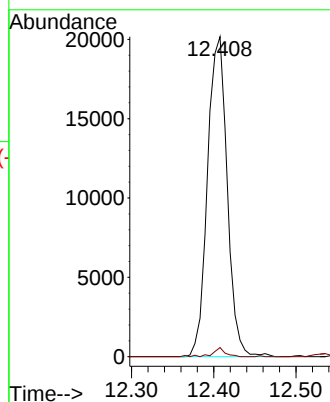
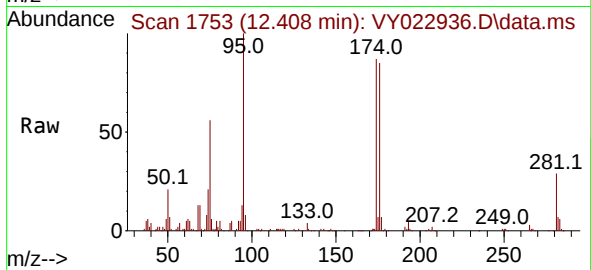




#76
 1,2,3-Trichloropropane
 Concen: 58.557 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.146 min
 Lab File: VY022936.D
 Acq: 03 Jul 2025 12:39

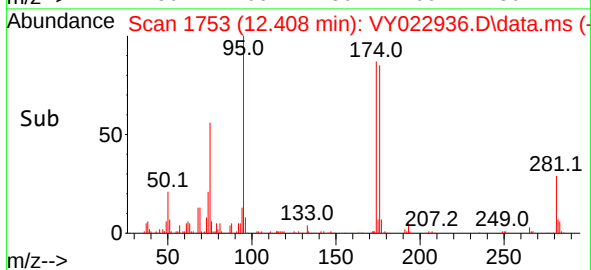
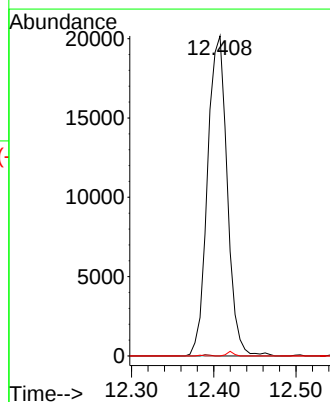
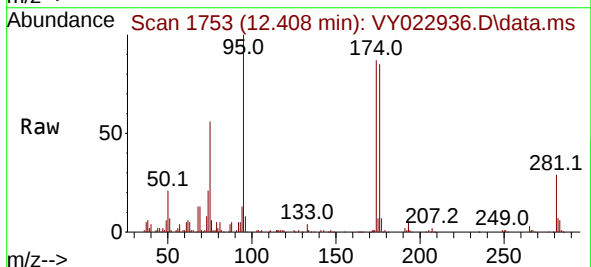
Instrument :
 MSVOA_Y
 ClientSampleId :
 PIT#4RE

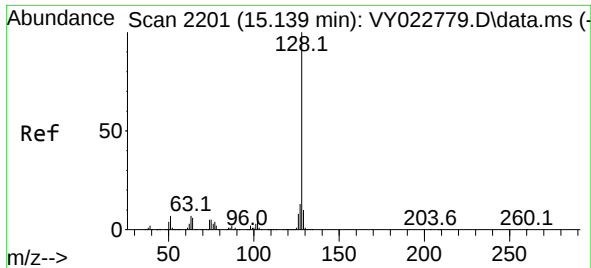
Tgt Ion: 75 Resp: 33541
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.937 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.103 min
 Lab File: VY022936.D
 Acq: 03 Jul 2025 12:39

Tgt Ion: 75 Resp: 33541
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.5 35.7 53.5#





#95

Naphthalene

Concen: 1.052 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY022936.D

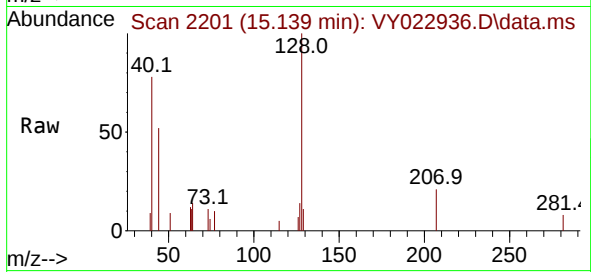
Acq: 03 Jul 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

PIT#4RE



Tgt Ion:	128	Resp:	1788
Ion	Ratio	Lower	Upper
128	100		
127	8.2	10.4	15.6#
129	10.3	8.9	13.3

