

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041825\
 Data File : VY021931.D
 Acq On : 18 Apr 2025 15:20
 Operator : SY/MD
 Sample : Q1832-38
 Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PL-714-VOC-07

Quant Time: Apr 19 01:14:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

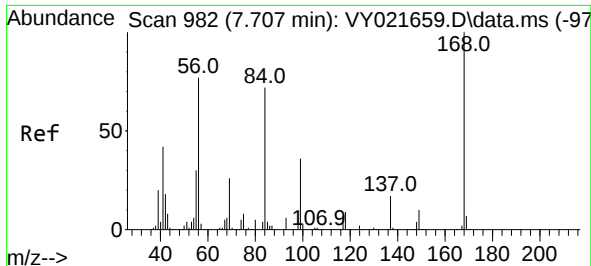
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	223134	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	421491	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	360389	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138522	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	125741	52.011	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.020%			
35) Dibromofluoromethane	7.634	113	140799	51.497	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.000%			
50) Toluene-d8	10.109	98	512454	49.267	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.540%			
62) 4-Bromofluorobenzene	12.408	95	156663	44.528	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 89.060%			
Target Compounds						
20) Methylene Chloride	4.610	84	1367	Below Cal	Qvalue 92	
31) Cyclohexane	7.707	56	5349	1.254	ug/l #	10
36) 1,1-Dichloropropene	7.707	75	18123	4.352	ug/l #	50
38) Carbon Tetrachloride	7.701	117	22321	4.680	ug/l #	16
49) 1,4-Dioxane	9.359	88	43	2.359	ug/l #	21
51) 4-Methyl-2-Pentanone	10.109	43	2526	1.303	ug/l #	1
73) Isopropylbenzene	12.261	105	14227	1.383	ug/l #	72
74) N-amyl acetate	12.261	43	6659	2.758	ug/l #	19
76) 1,2,3-Trichloropropane	12.408	75	80903	58.920	ug/l #	100
79) 2-Chlorotoluene	12.816	91	65437	9.108	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.816	105	8967	1.066	ug/l #	49
81) trans-1,4-Dichloro-2-b...	12.408	75	80903	135.761	ug/l #	11
82) 4-Chlorotoluene	12.816	91	65437	8.737	ug/l #	41

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

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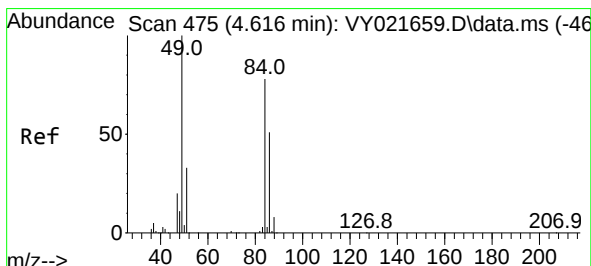
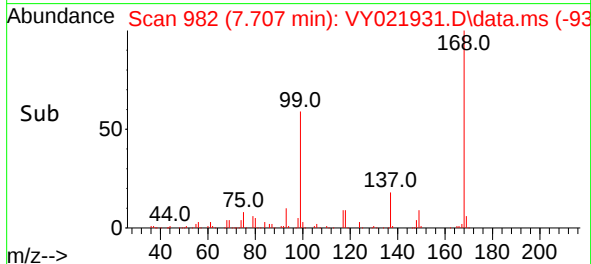
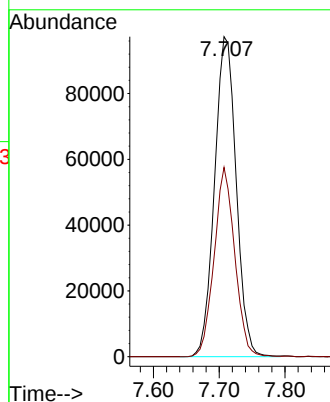
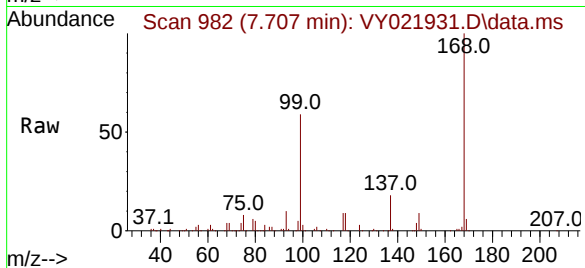




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

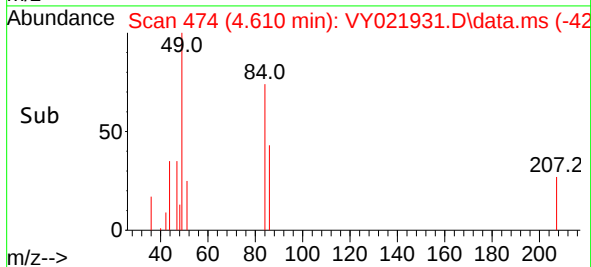
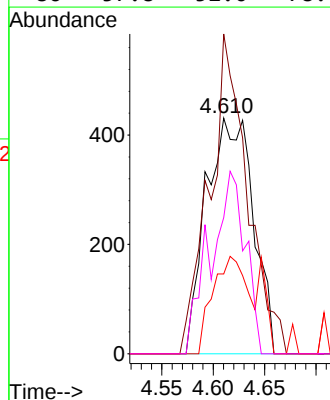
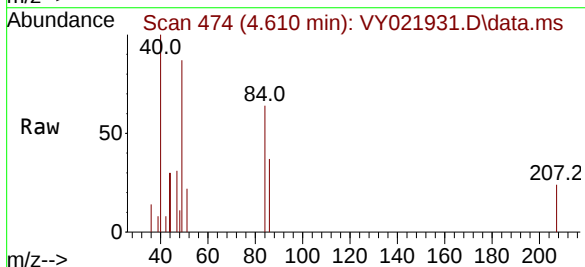
Instrument :
MSVOA_Y
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PL-714-VOC-07

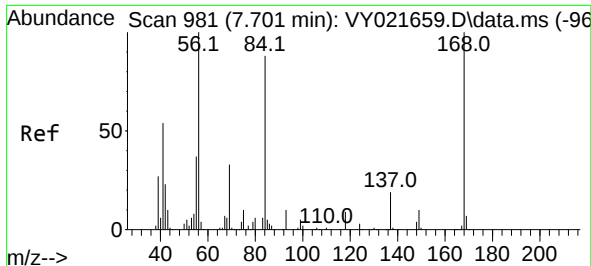
Tgt Ion:168 Resp: 223134
Ion Ratio Lower Upper
168 100
99 59.2 46.7 70.1



#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

Tgt Ion: 84 Resp: 1367
Ion Ratio Lower Upper
84 100
49 135.7 102.8 154.2
51 33.9 33.5 50.3
86 57.8 52.0 78.0

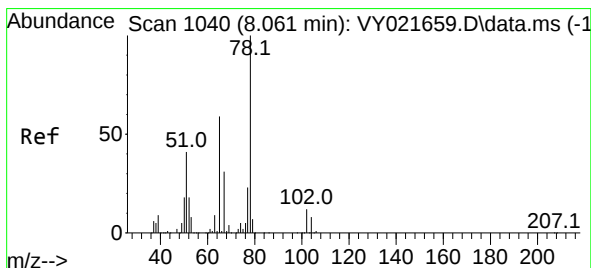
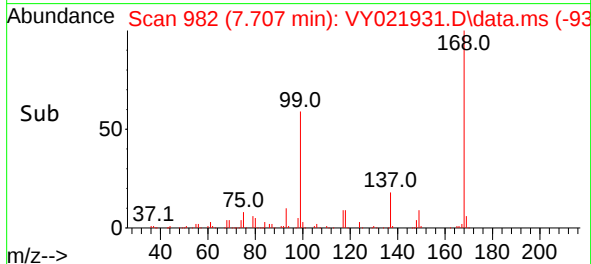
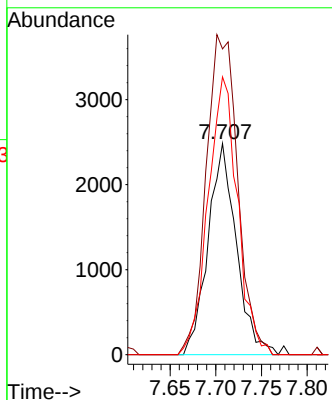
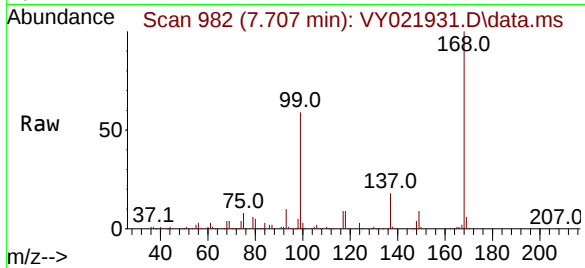




#31
Cyclohexane
Concen: 1.254 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

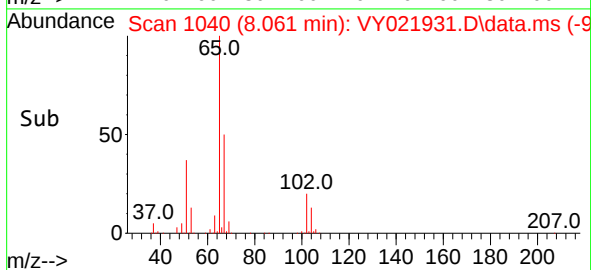
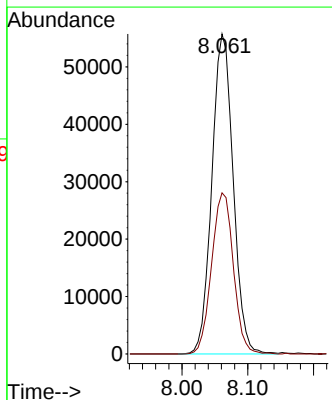
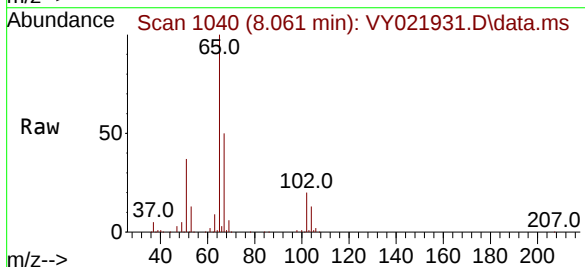
Instrument :
MSVOA_Y
ClientSampleId :
PL-714-VOC-07

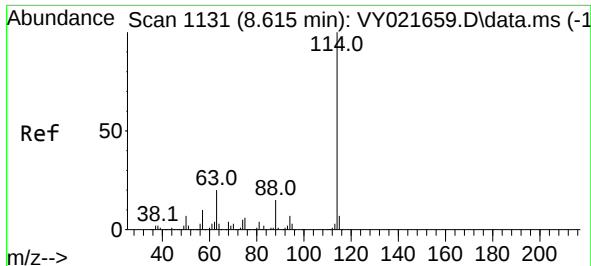
Tgt Ion: 56 Resp: 5349
Ion Ratio Lower Upper
56 100
69 144.8 26.6 40.0#
84 131.6 69.0 103.4#



#33
1,2-Dichloroethane-d4
Concen: 52.011 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

Tgt Ion: 65 Resp: 125741
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.6

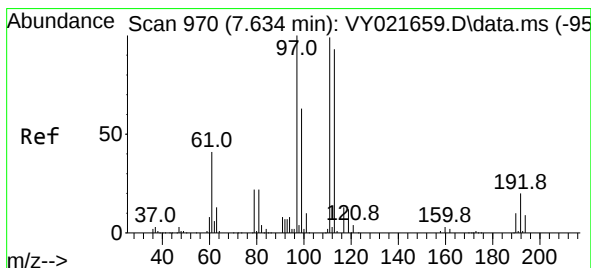
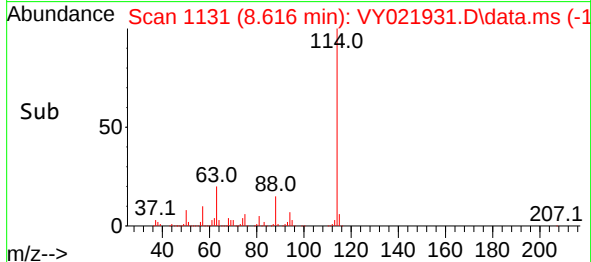
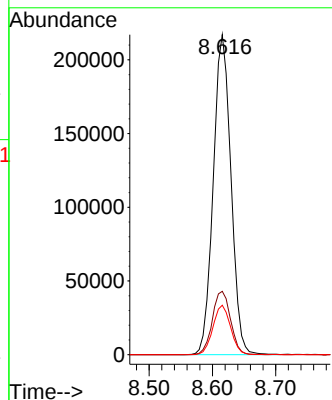
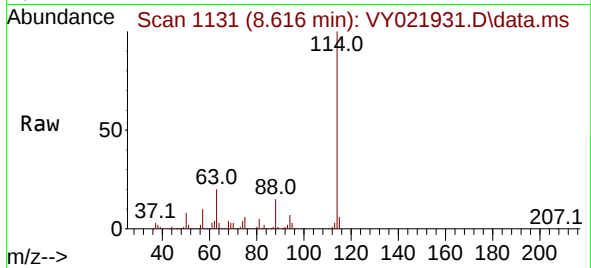




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

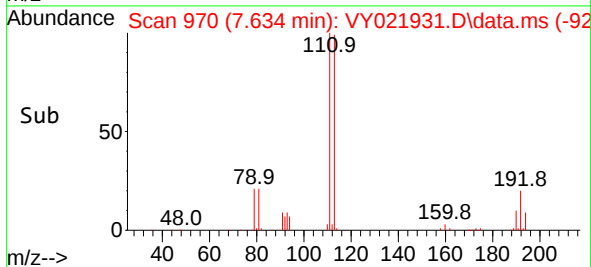
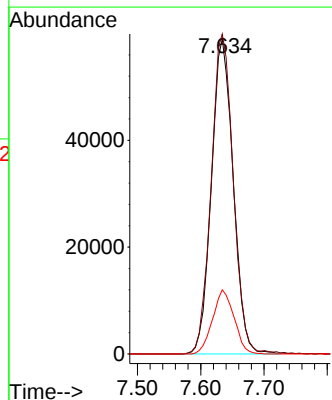
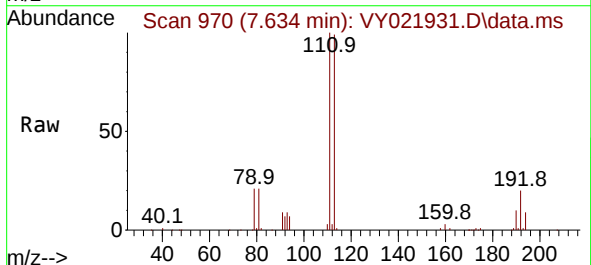
Instrument :
MSVOA_Y
ClientSampleId :
PL-714-VOC-07

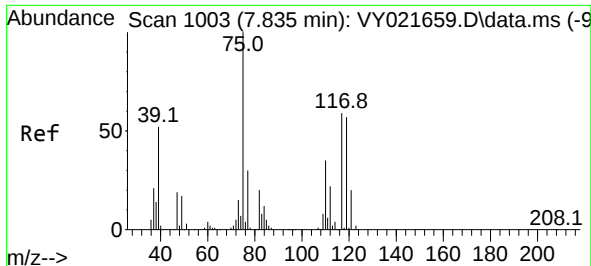
Tgt Ion:	114	Resp:	421491
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.2
88	15.4	0.0	29.8



#35
Dibromofluoromethane
Concen: 51.497 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

Tgt Ion:	113	Resp:	140799
Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	20.0	16.2	24.4





#36

1,1-Dichloropropene

Concen: 4.352 ug/l

RT: 7.707 min Scan# 9

Delta R.T. -0.128 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

Instrument :

MSVOA_Y

ClientSampleId :

PL-714-VOC-07

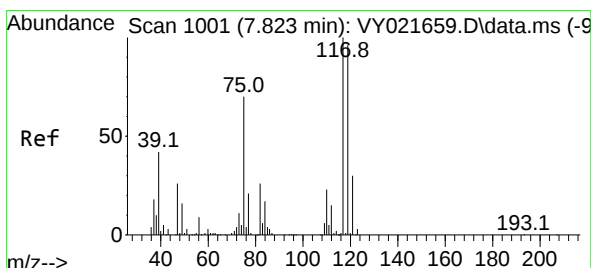
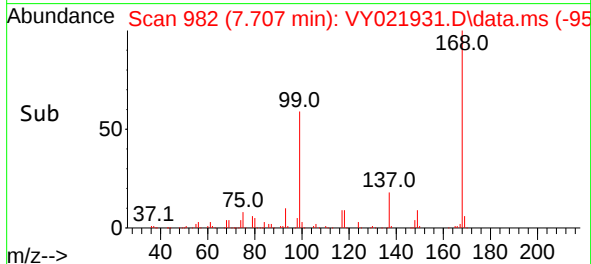
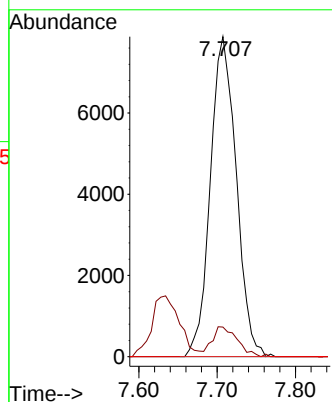
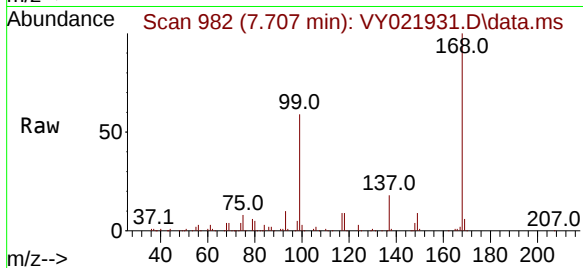
Tgt Ion: 75 Resp: 18123

Ion Ratio Lower Upper

75 100

110 8.9 17.0 50.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.680 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.122 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

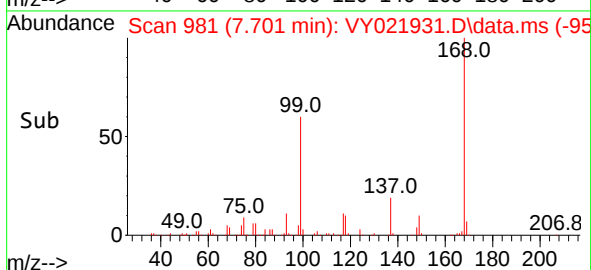
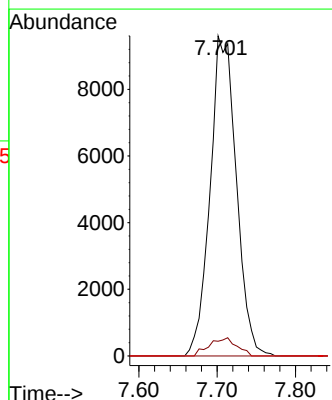
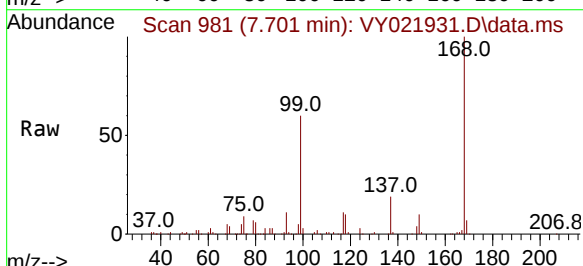
Tgt Ion: 117 Resp: 22321

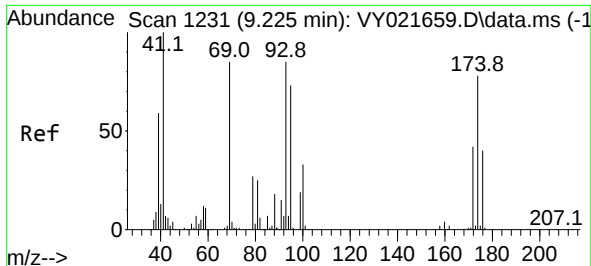
Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.4#

121 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 2.359 ug/l

RT: 9.359 min Scan# 1253

Delta R.T. 0.134 min

Lab File: VY021931.D

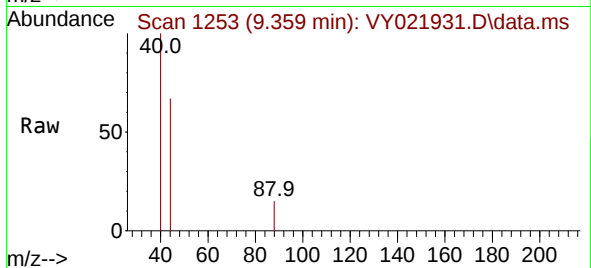
Acq: 18 Apr 2025 15:20

Instrument :

MSVOA_Y

ClientSampleId :

PL-714-VOC-07



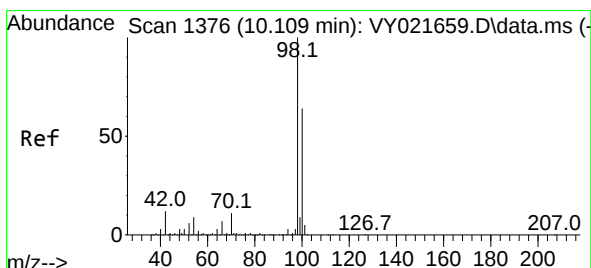
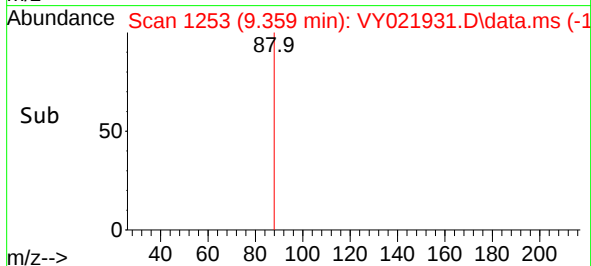
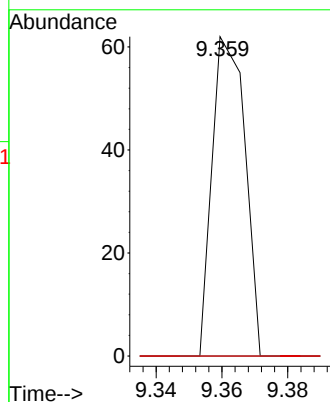
Tgt Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

43 0.0 28.8 43.2#

58 0.0 59.4 89.2#



#50

Toluene-d8

Concen: 49.267 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021931.D

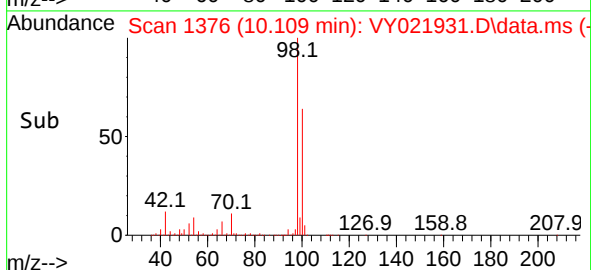
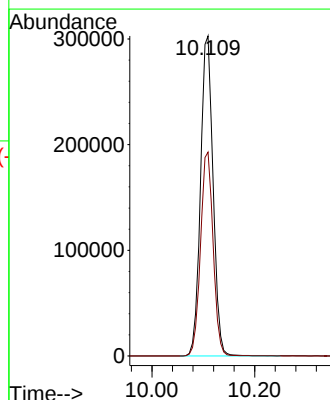
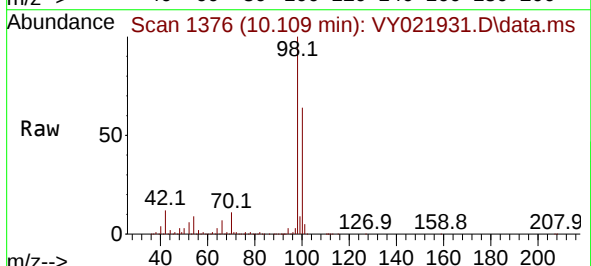
Acq: 18 Apr 2025 15:20

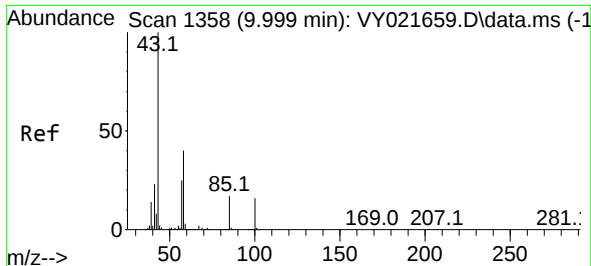
Tgt Ion: 98 Resp: 512454

Ion Ratio Lower Upper

98 100

100 64.1 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.303 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.110 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

Instrument :

MSVOA_Y

ClientSampleId :

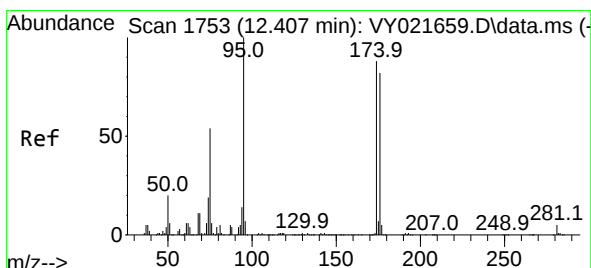
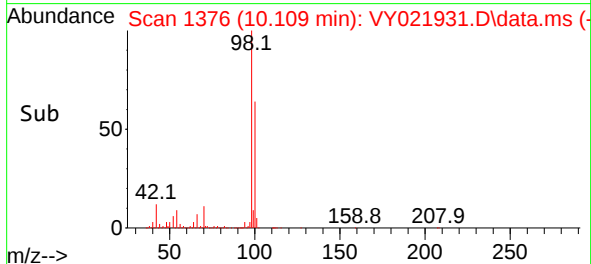
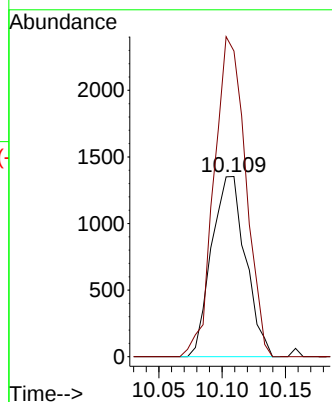
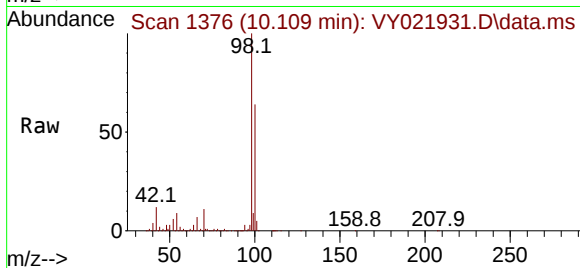
PL-714-VOC-07

Tgt Ion: 43 Resp: 2526

Ion Ratio Lower Upper

43 100

58 165.6 31.5 47.3#



#62

4-Bromofluorobenzene

Concen: 44.528 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

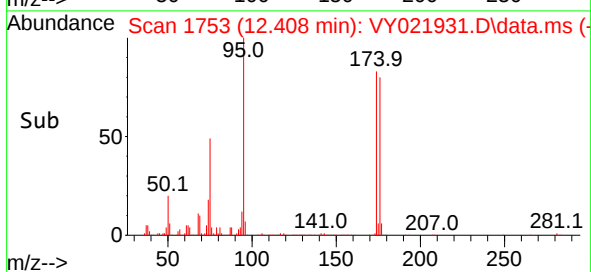
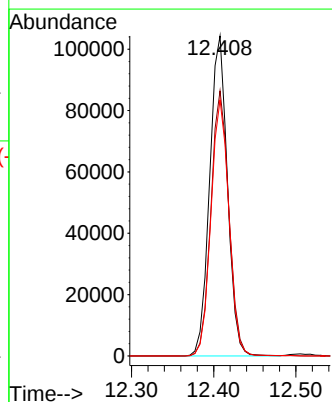
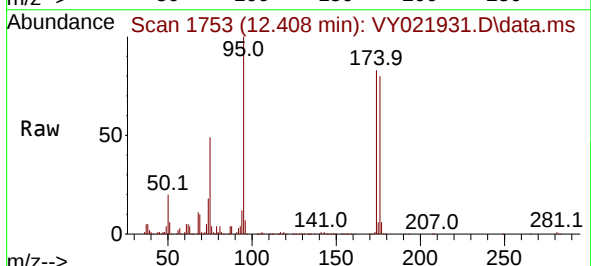
Tgt Ion: 95 Resp: 156663

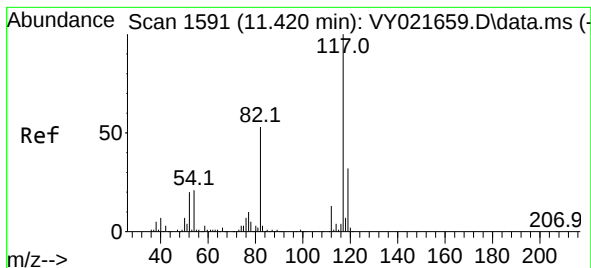
Ion Ratio Lower Upper

95 100

174 84.1 0.0 170.8

176 80.9 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

Instrument :

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ClientSampleId :

PL-714-VOC-07

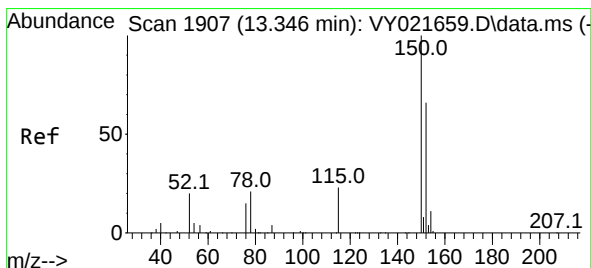
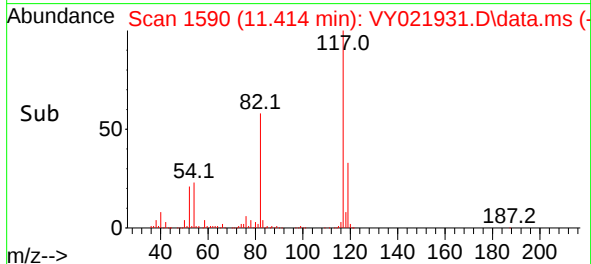
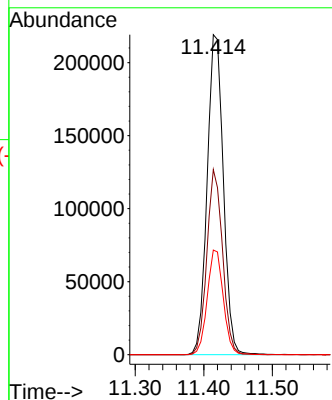
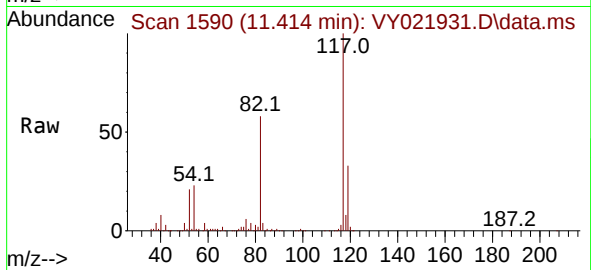
Tgt Ion:117 Resp: 360389

Ion Ratio Lower Upper

117 100

82 57.8 42.8 64.2

119 32.7 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

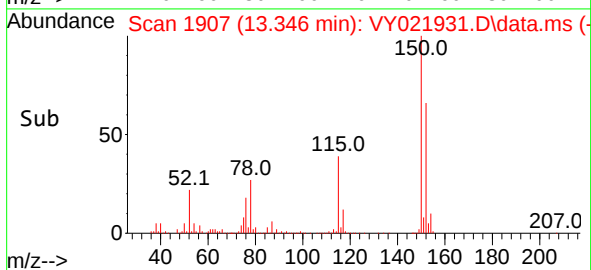
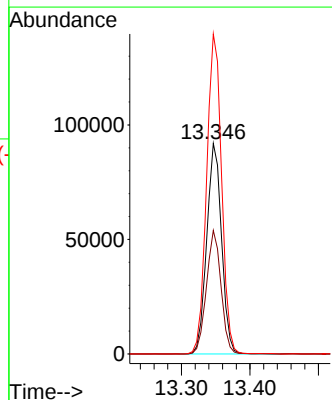
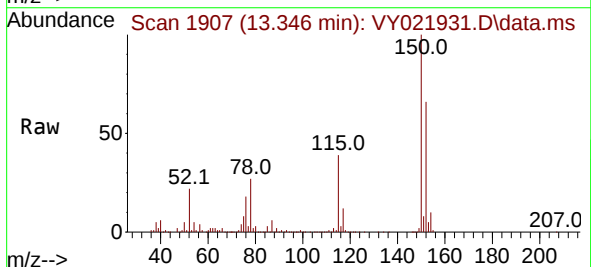
Tgt Ion:152 Resp: 138522

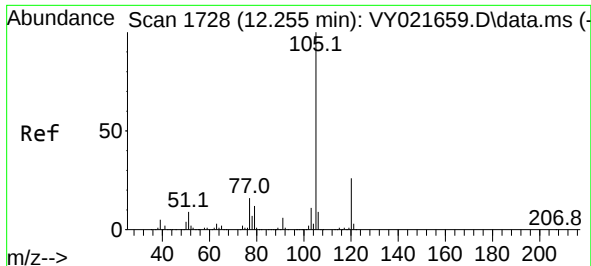
Ion Ratio Lower Upper

152 100

115 57.7 28.8 86.5

150 153.3 0.0 348.4

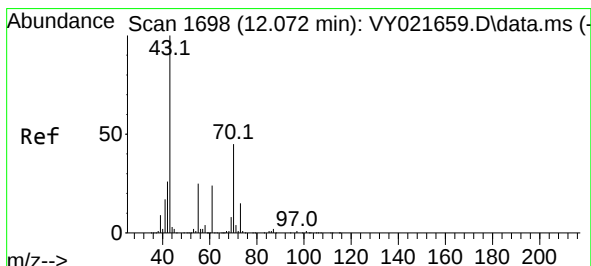
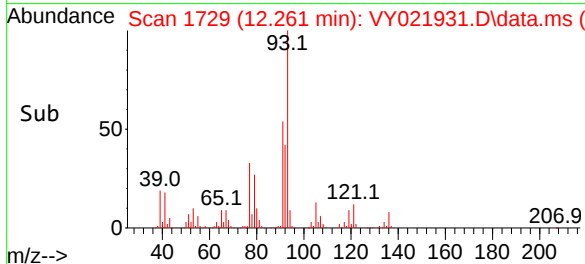
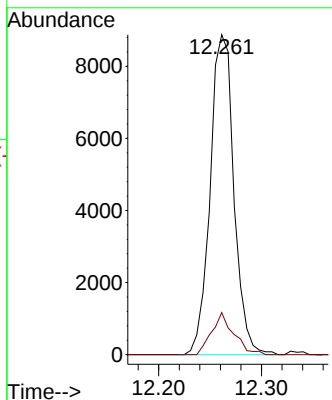
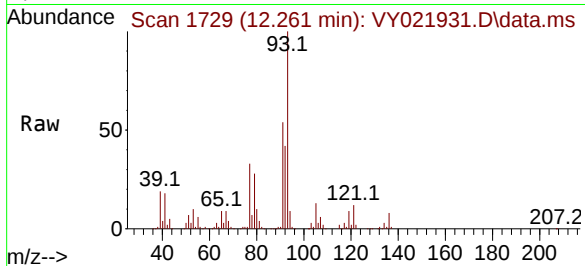




#73
Isopropylbenzene
Concen: 1.383 ug/l
RT: 12.261 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

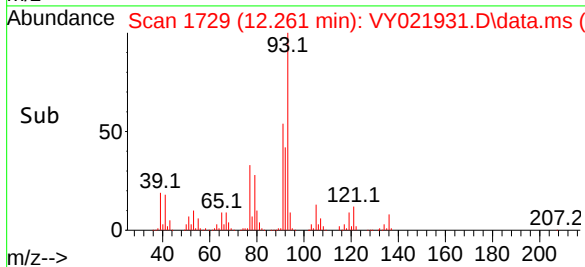
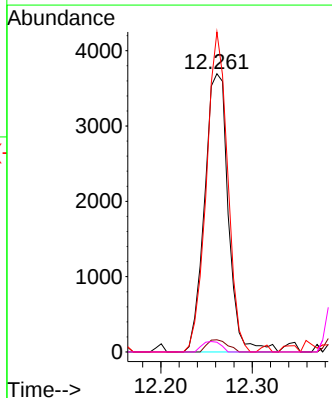
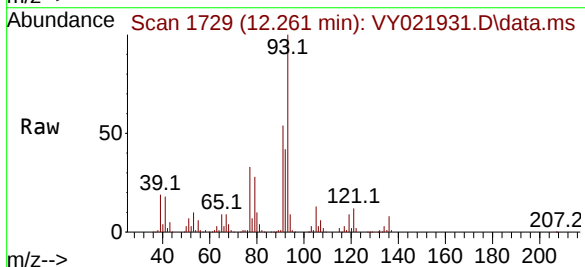
Instrument :
MSVOA_Y
ClientSampleId :
PL-714-VOC-07

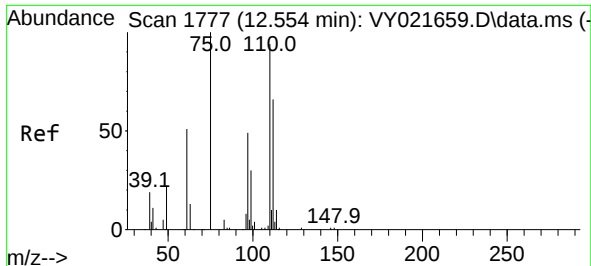
Tgt Ion:105 Resp: 14227
Ion Ratio Lower Upper
105 100
120 12.2 13.2 39.5#



#74
N-ethyl acetate
Concen: 2.758 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.189 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

Tgt Ion: 43 Resp: 6659
Ion Ratio Lower Upper
43 100
70 3.8 34.7 52.1#
55 102.7 21.2 31.8#
61 3.0 19.5 29.3#

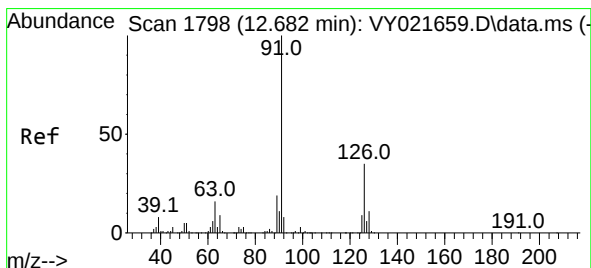
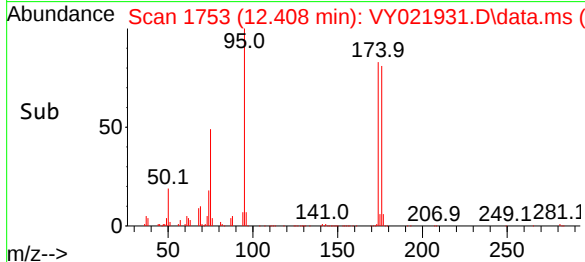
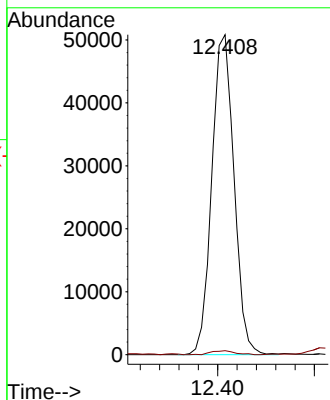
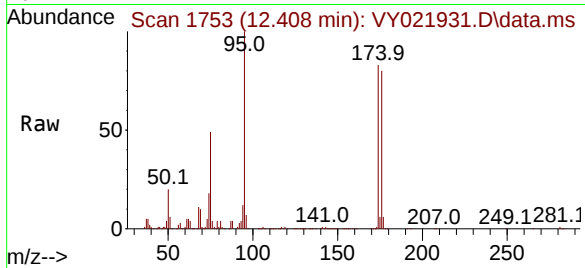




#76
1,2,3-Trichloropropane
Concen: 58.920 ug/l
RT: 12.408 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

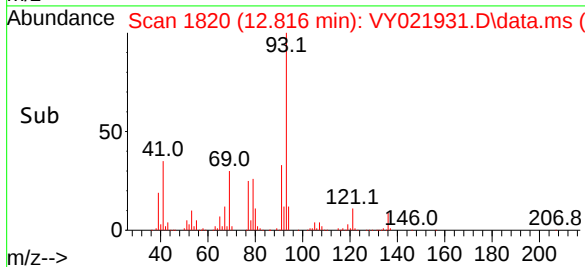
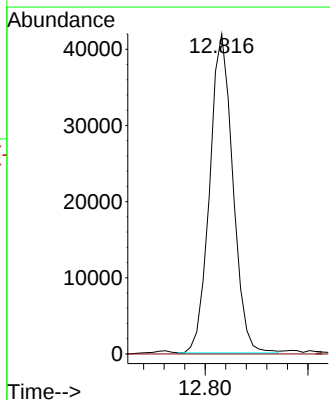
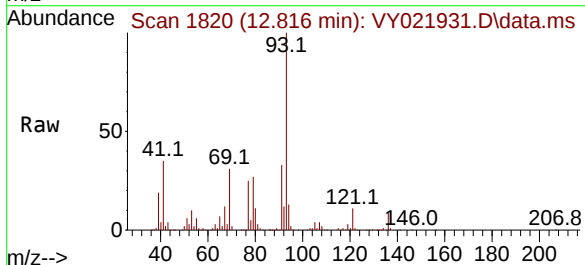
Instrument :
MSVOA_Y
ClientSampleId :
PL-714-VOC-07

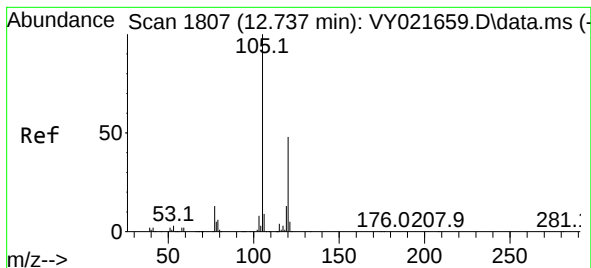
Tgt Ion: 75 Resp: 80903
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#79
2-Chlorotoluene
Concen: 9.108 ug/l
RT: 12.816 min Scan# 1820
Delta R.T. 0.134 min
Lab File: VY021931.D
Acq: 18 Apr 2025 15:20

Tgt Ion: 91 Resp: 65437
Ion Ratio Lower Upper
91 100
126 0.0 17.3 52.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.066 ug/l

RT: 12.816 min Scan# 11

Delta R.T. 0.079 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

Instrument :

MSVOA_Y

ClientSampleId :

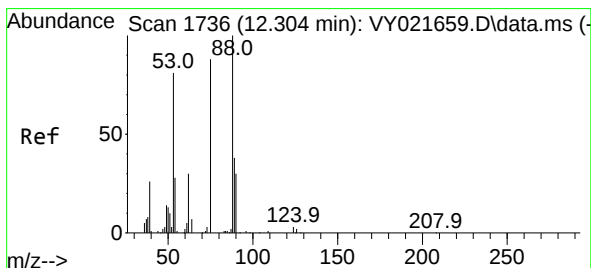
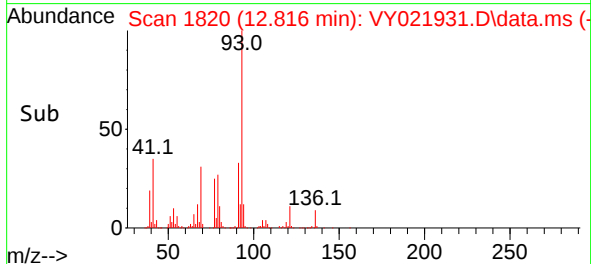
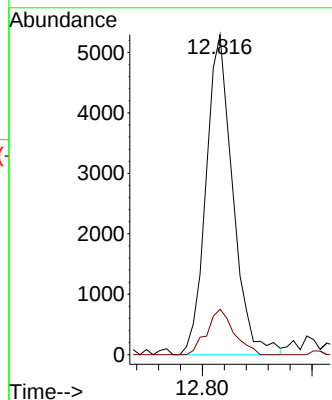
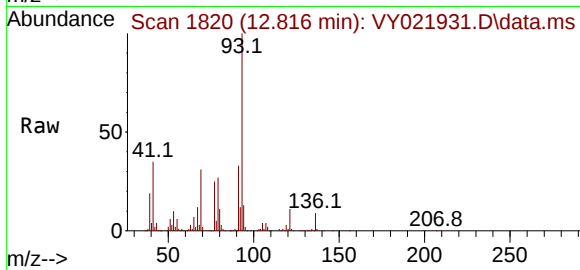
PL-714-VOC-07

Tgt Ion:105 Resp: 8967

Ion Ratio Lower Upper

105 100

120 14.3 24.5 73.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 135.761 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021931.D

Acq: 18 Apr 2025 15:20

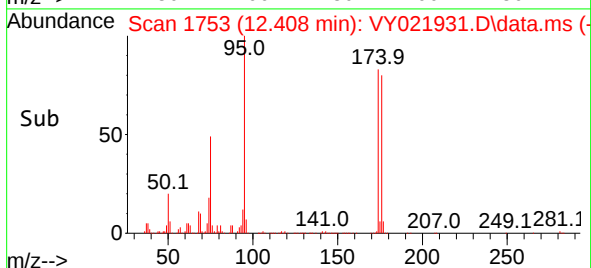
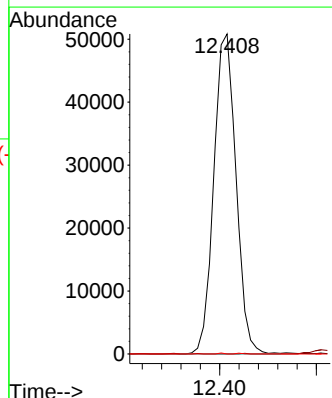
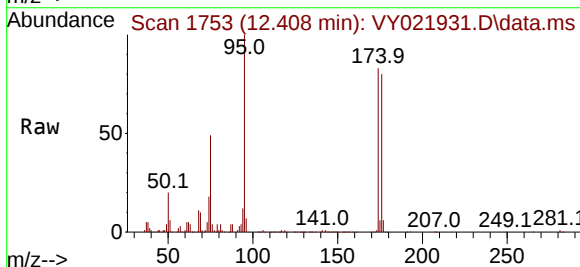
Tgt Ion: 75 Resp: 80903

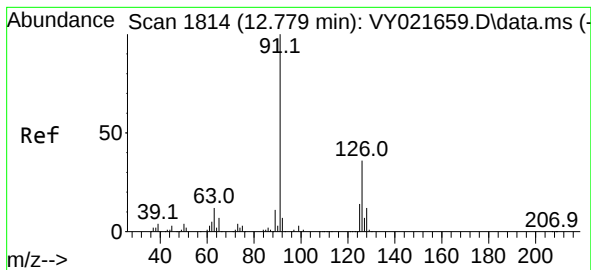
Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.1 36.2 54.4#





#82
 4-Chlorotoluene
 Concen: 8.737 ug/l
 RT: 12.816 min Scan# 11
 Delta R.T. 0.037 min
 Lab File: VY021931.D
 Acq: 18 Apr 2025 15:20

Instrument :
 MSVOA_Y
 ClientSampleId :
 PL-714-VOC-07

Tgt Ion: 91 Resp: 65437
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.0 50.9#

