

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122922\
 Data File : VY012025.D
 Acq On : 29 Dec 2022 14:05
 Operator : KP/MD
 Sample : N6229-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 NB-8-122822

Quant Time: Dec 30 03:58:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122022S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 20 12:37:37 2022
 Response via : Initial Calibration

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

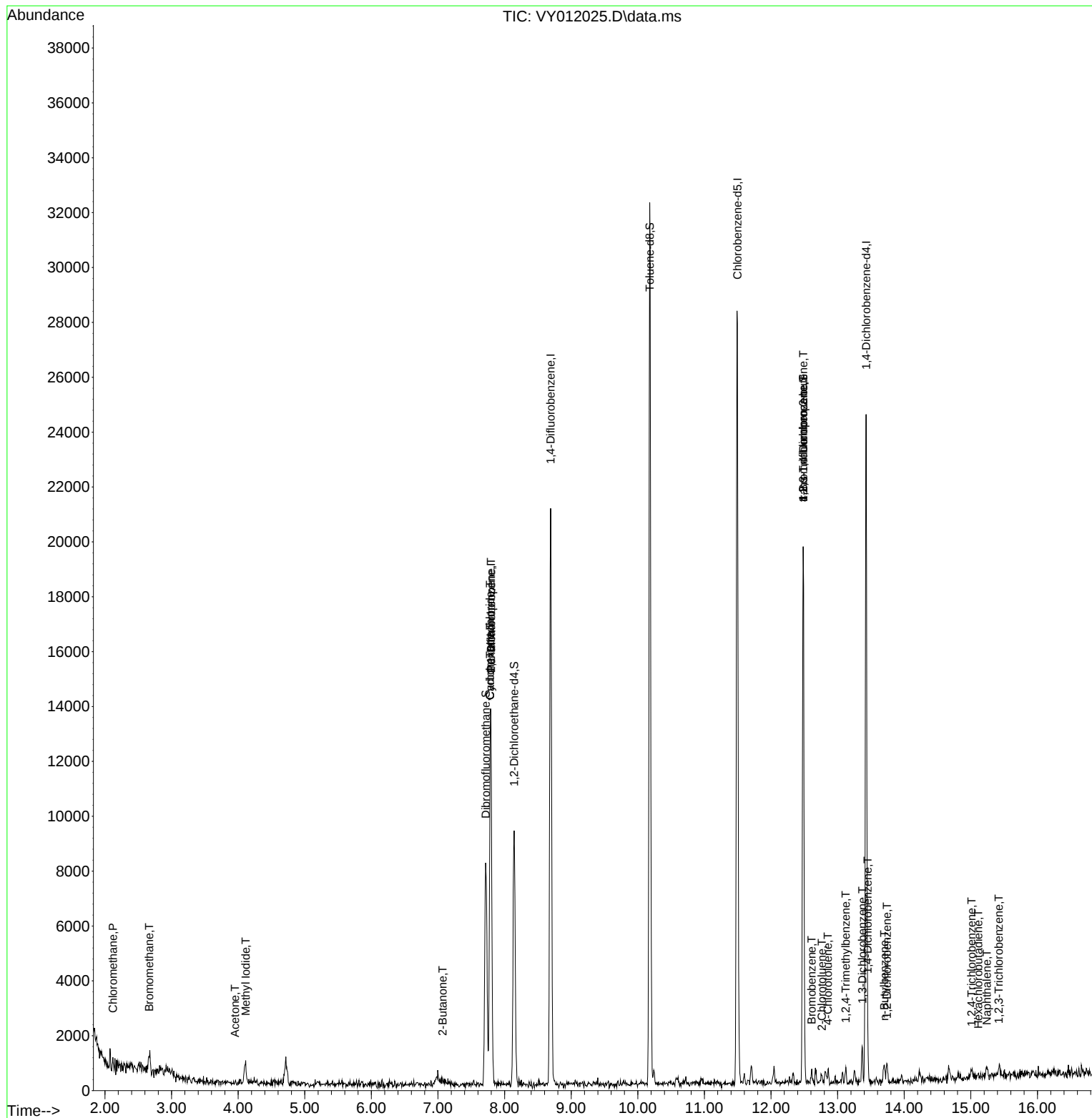
Internal Standards						
1) Pentafluorobenzene	7.795	168	11363	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	18900	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	17449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	6751	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	7929	69.261	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 138.520%			
35) Dibromofluoromethane	7.716	113	6161	54.147	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.300%			
50) Toluene-d8	10.179	98	22735	49.248	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.500%			
62) 4-Bromofluorobenzene	12.483	95	6321	40.712	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 81.420%			
Target Compounds						Qvalue
3) Chloromethane	2.119	50	273	2.699	ug/l #	41
5) Bromomethane	2.662	94	456	5.747	ug/l #	60
10) Methyl Iodide	4.113	142	1096	7.371	ug/l #	95
16) Acetone	3.954	43	22	5.506	ug/l #	40
20) Methylene Chloride	4.716	84	720	Below Cal	#	75
25) 2-Butanone	7.069	43	46	1.206	ug/l #	46
31) Cyclohexane	7.783	56	257	1.334	ug/l #	52
36) 1,1-Dichloropropene	7.795	75	880	4.822	ug/l #	41
38) Carbon Tetrachloride	7.783	117	1154	5.475	ug/l #	14
76) 1,2,3-Trichloropropane	12.483	75	3420	40.712	ug/l #	100
77) Bromobenzene	12.611	156	166	1.432	ug/l	91
79) 2-Chlorotoluene	12.764	91	352	1.040	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.483	75	3420	111.490	ug/l #	13
82) 4-Chlorotoluene	12.855	91	487	1.391	ug/l	82
84) 1,2,4-Trimethylbenzene	13.123	105	464	1.100	ug/l	98
87) 1,3-Dichlorobenzene	13.373	146	527	2.261	ug/l	79
88) 1,4-Dichlorobenzene	13.452	146	516	2.227	ug/l	89
89) n-Butylbenzene	13.702	91	444	1.071	ug/l #	89
91) 1,2-Dichlorobenzene	13.739	146	440	2.165	ug/l	94
93) 1,2,4-Trichlorobenzene	15.013	180	210	1.757	ug/l #	64
94) Hexachlorobutadiene	15.111	225	86	1.113	ug/l #	18
95) Naphthalene	15.239	128	483	4.613	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.422	180	271	2.681	ug/l #	85

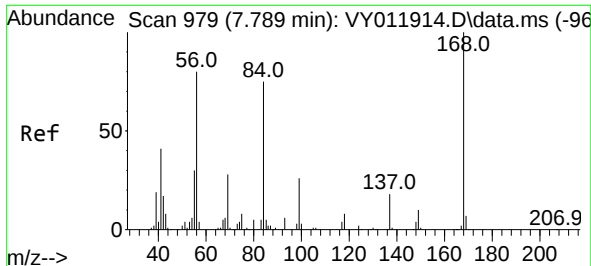
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122922\
Data File : VY012025.D
Acq On : 29 Dec 2022 14:05
Operator : KP/MD
Sample : N6229-01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

Quant Time: Dec 30 03:58:19 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122022S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 20 12:37:37 2022
Response via : Initial Calibration

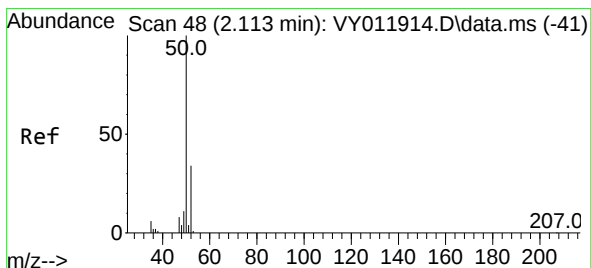
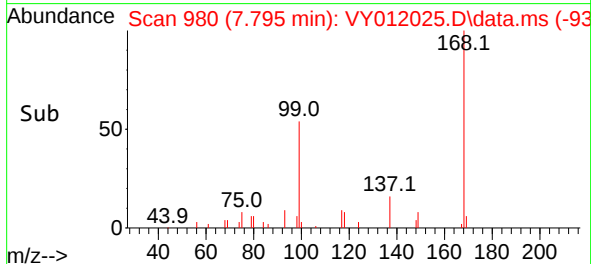
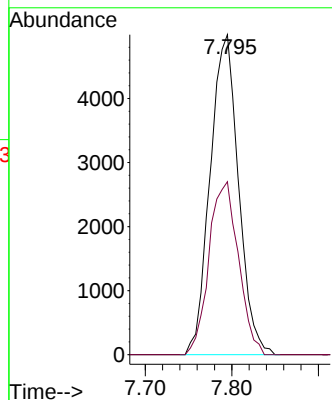
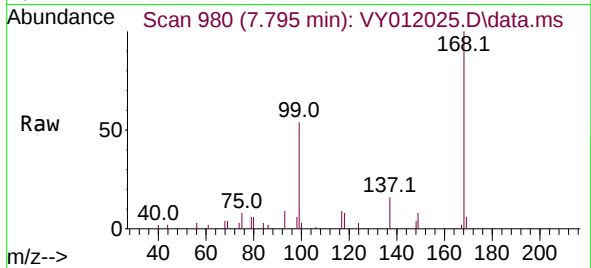




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

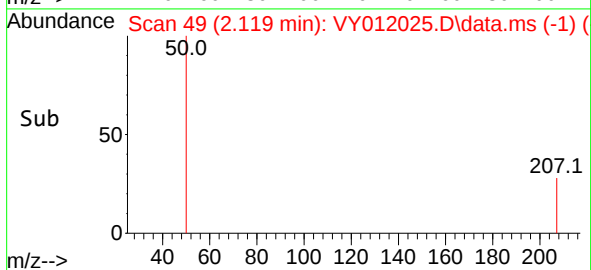
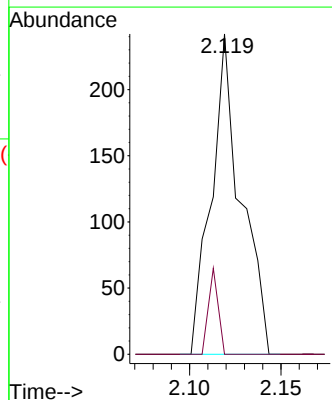
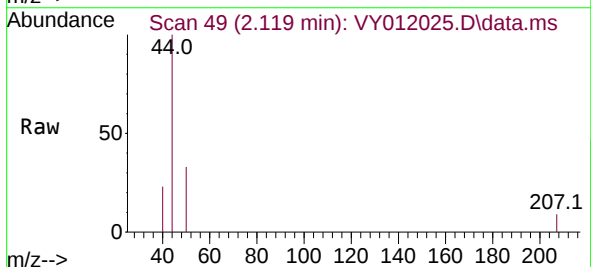
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

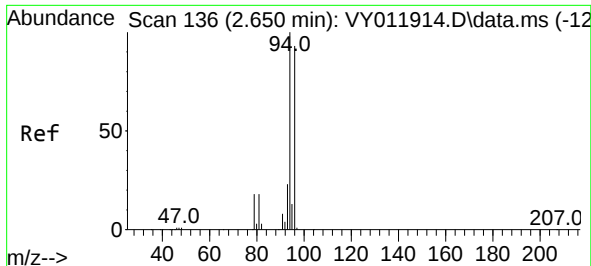
Tgt Ion:168 Resp: 11363
Ion Ratio Lower Upper
168 100
99 54.1 44.0 66.0



#3
Chloromethane
Concen: 2.699 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion: 50 Resp: 273
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#





#5

Bromomethane

Concen: 5.747 ug/l

RT: 2.662 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

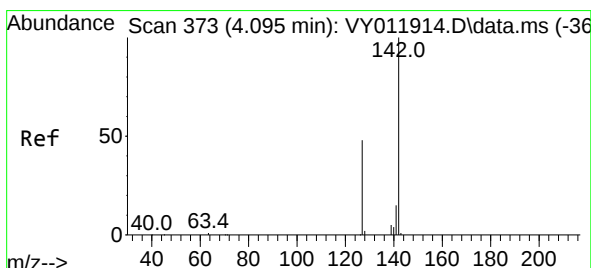
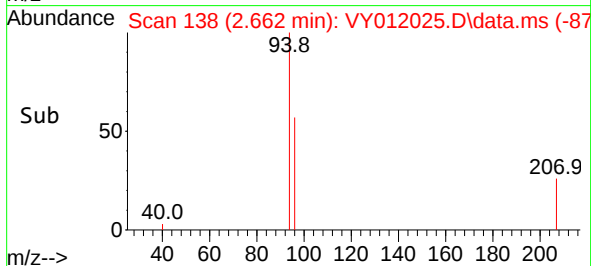
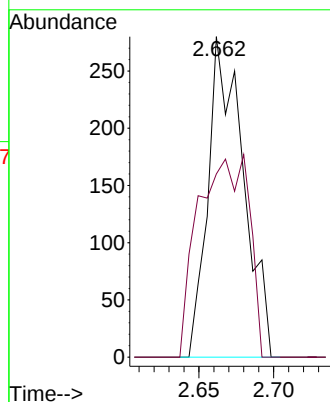
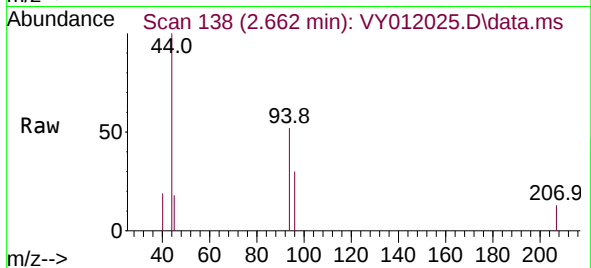
NB-8-122822

Tgt Ion: 94 Resp: 456

Ion Ratio Lower Upper

94 100

96 57.1 77.4 116.2#



#10

Methyl Iodide

Concen: 7.371 ug/l

RT: 4.113 min Scan# 376

Delta R.T. 0.018 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

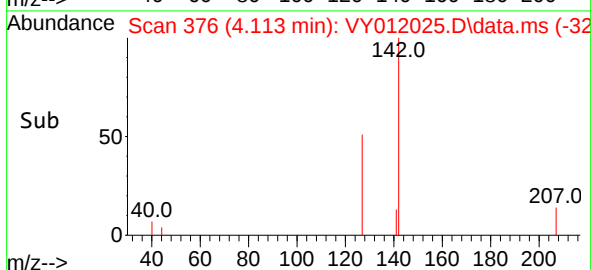
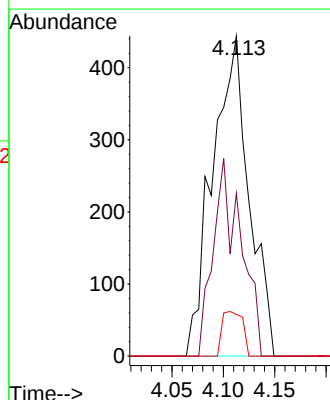
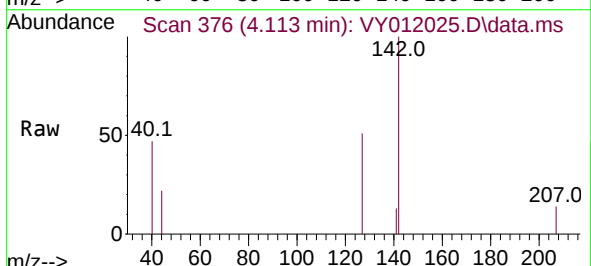
Tgt Ion: 142 Resp: 1096

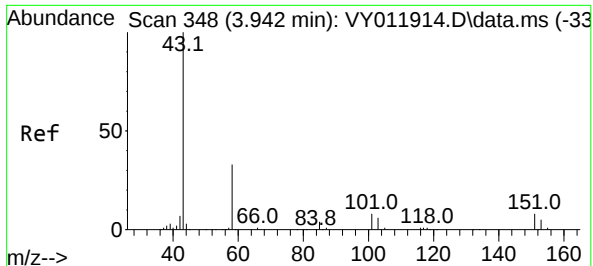
Ion Ratio Lower Upper

142 100

127 47.0 37.0 55.4

141 7.8 11.4 17.0#





#16

Acetone

Concen: 5.506 ug/l

RT: 3.954 min Scan# 31

Delta R.T. 0.006 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

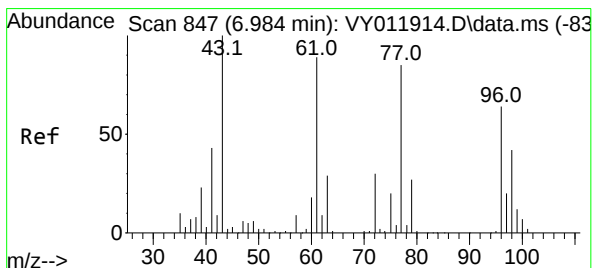
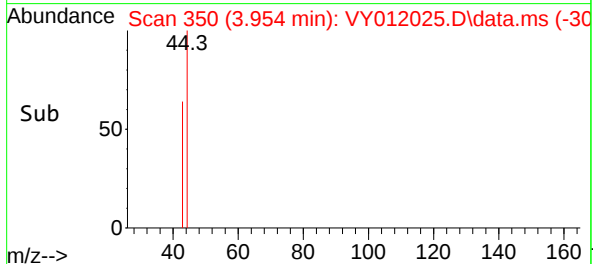
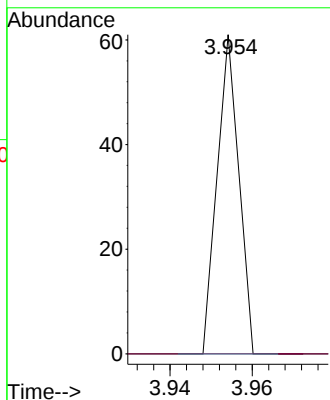
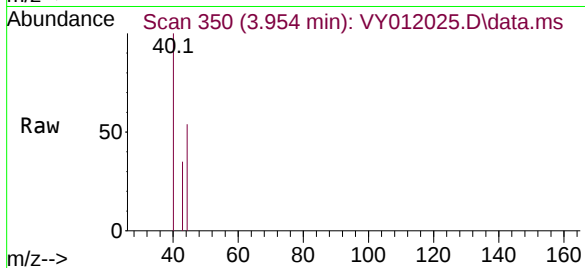
NB-8-122822

Tgt Ion: 43 Resp: 22

Ion Ratio Lower Upper

43 100

58 0.0 27.9 41.9#



#25

2-Butanone

Concen: 1.206 ug/l

RT: 7.069 min Scan# 861

Delta R.T. 0.085 min

Lab File: VY012025.D

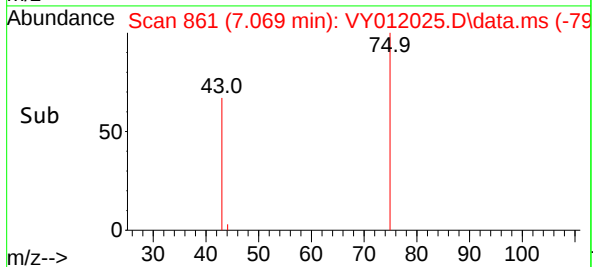
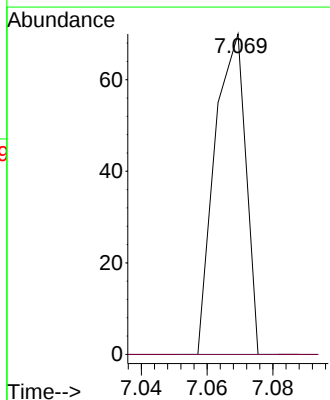
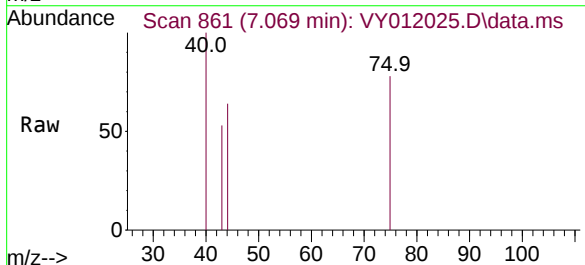
Acq: 29 Dec 2022 14:05

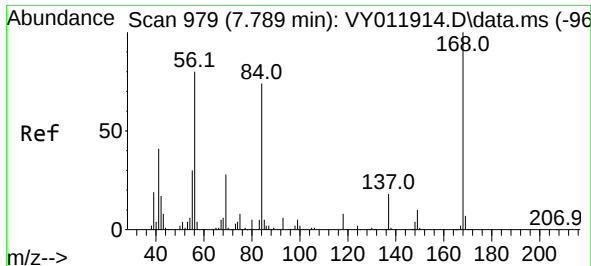
Tgt Ion: 43 Resp: 46

Ion Ratio Lower Upper

43 100

72 0.0 22.6 34.0#

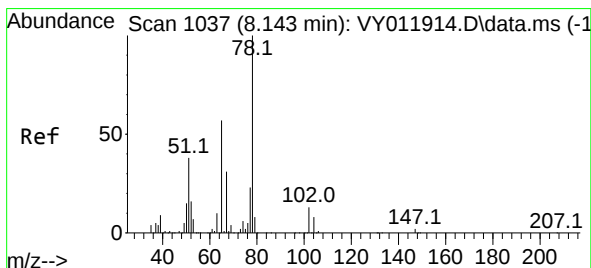
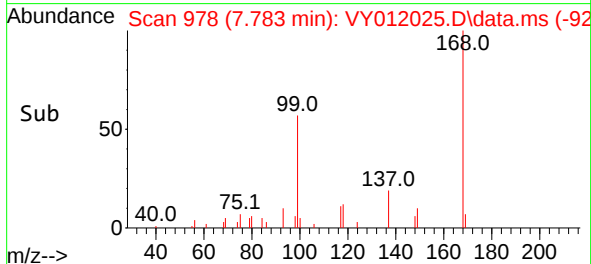
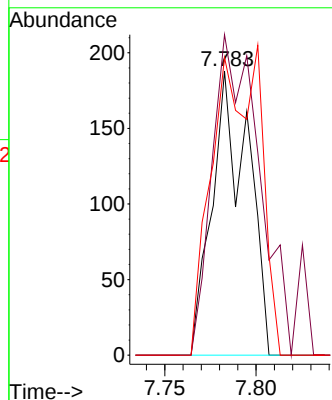
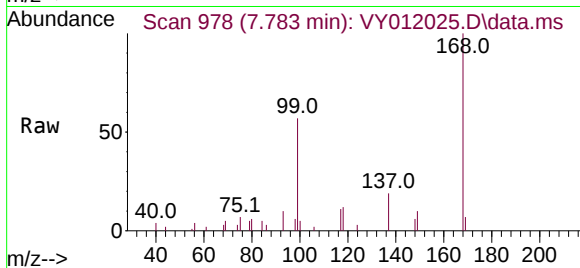




#31
Cyclohexane
Concen: 1.334 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

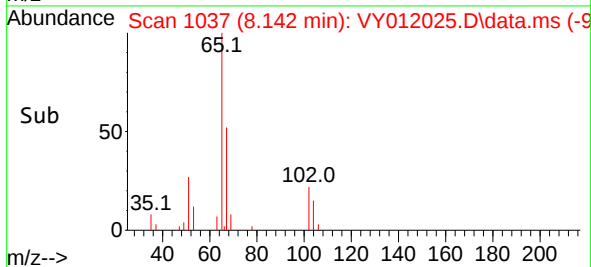
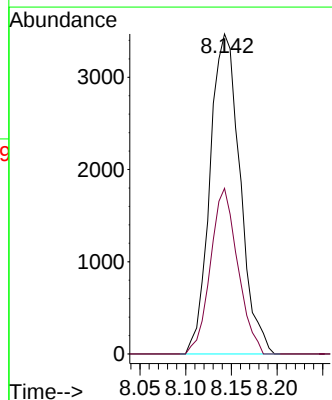
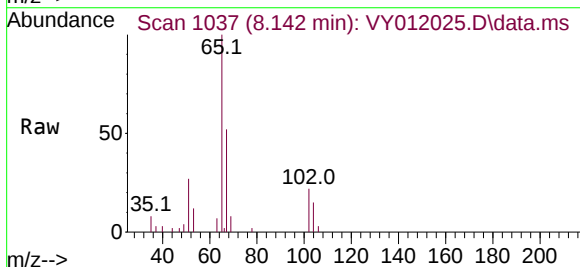
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

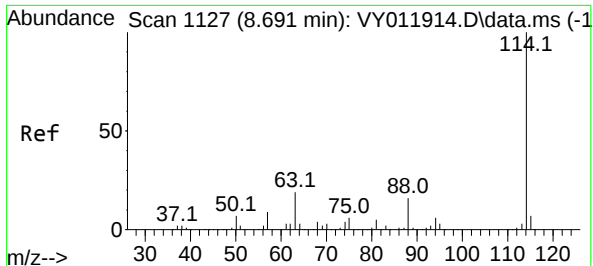
Tgt Ion: 56 Resp: 257
Ion Ratio Lower Upper
56 100
69 112.8 29.2 43.8#
84 104.8 72.6 108.8



#33
1,2-Dichloroethane-d4
Concen: 69.261 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.001 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion: 65 Resp: 7929
Ion Ratio Lower Upper
65 100
67 47.0 0.0 103.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

NB-8-122822

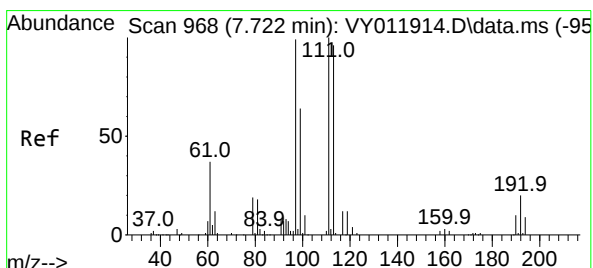
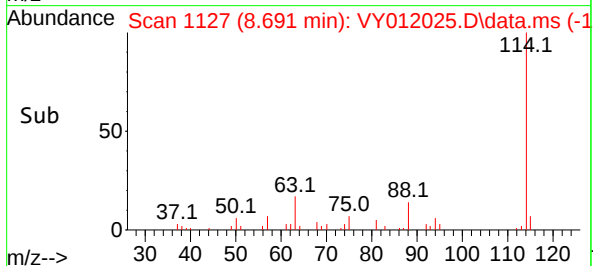
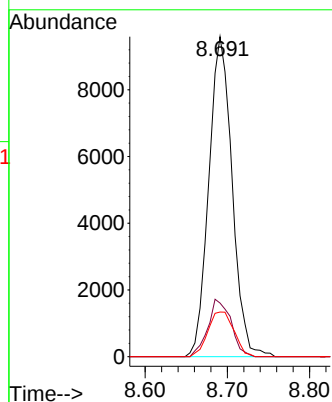
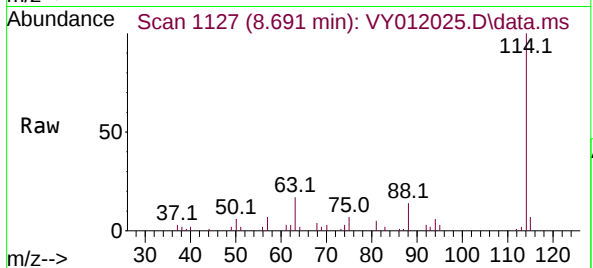
Tgt Ion:114 Resp: 18900

Ion Ratio Lower Upper

114 100

63 16.8 0.0 39.6

88 14.0 0.0 32.2



#35

Dibromofluoromethane

Concen: 54.147 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

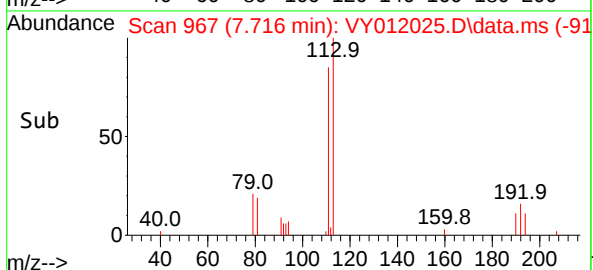
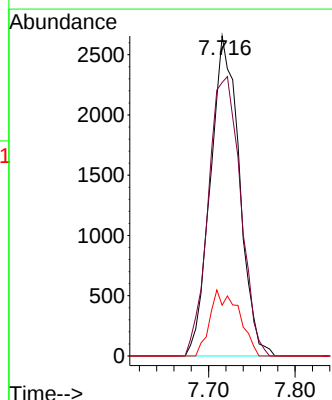
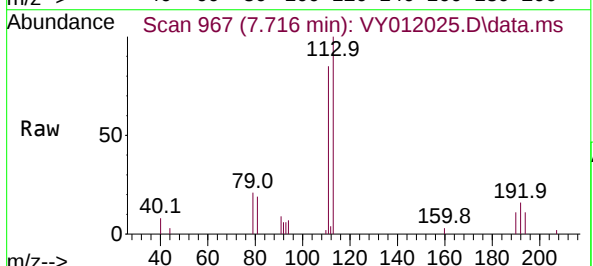
Tgt Ion:113 Resp: 6161

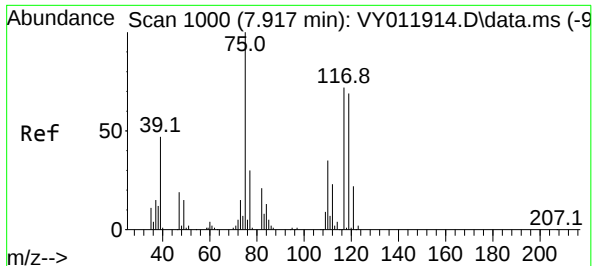
Ion Ratio Lower Upper

113 100

111 97.2 83.0 124.4

192 20.5 16.0 24.0





#36

1,1-Dichloropropene

Concen: 4.822 ug/l

RT: 7.795 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

NB-8-122822

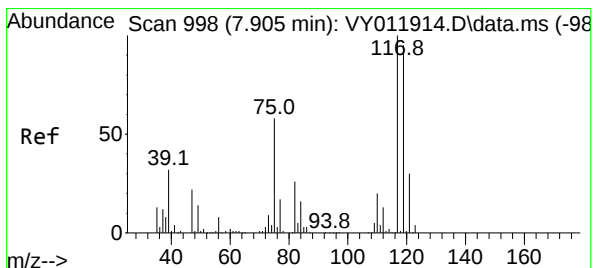
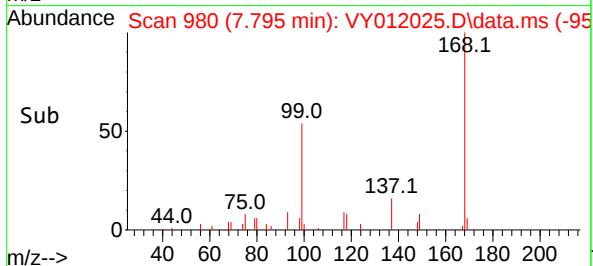
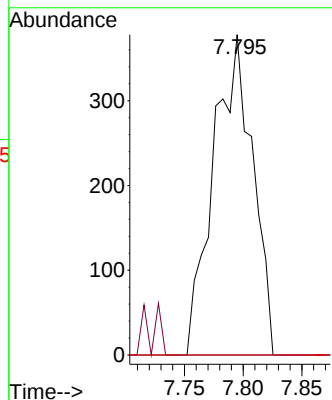
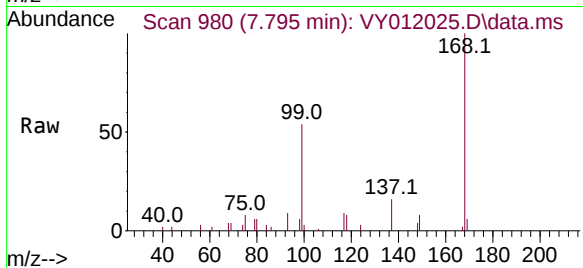
Tgt Ion: 75 Resp: 880

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.475 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.122 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

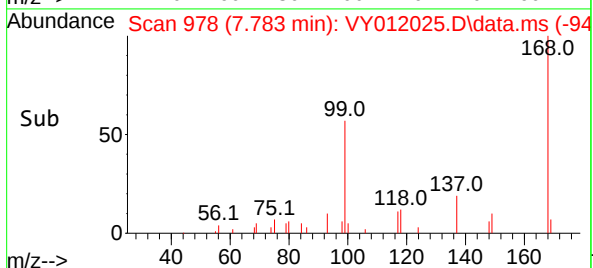
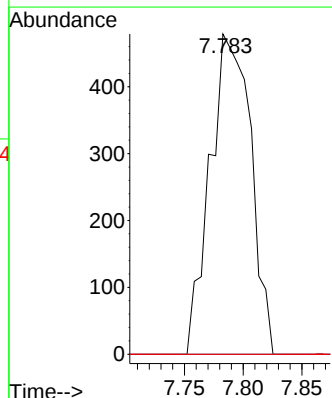
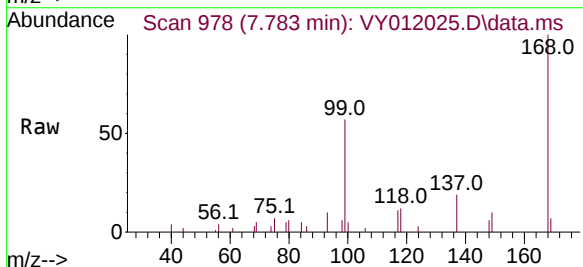
Tgt Ion: 117 Resp: 1154

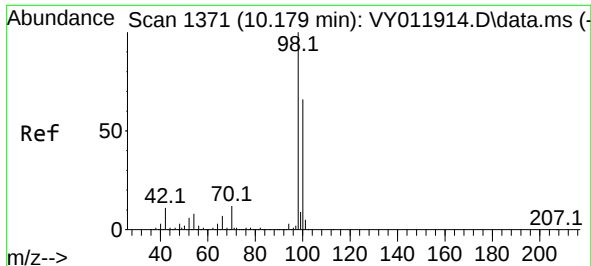
Ion Ratio Lower Upper

117 100

119 0.0 73.8 110.8#

121 0.0 25.2 37.8#

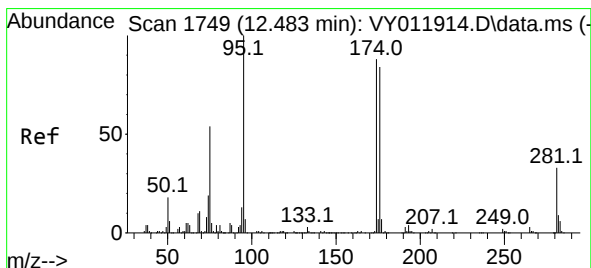
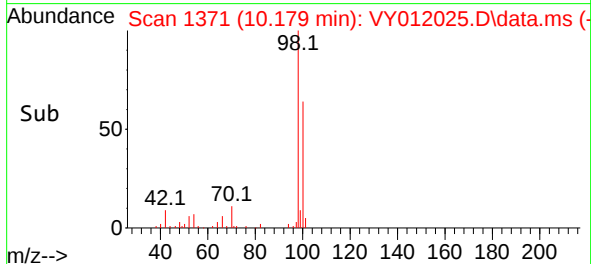
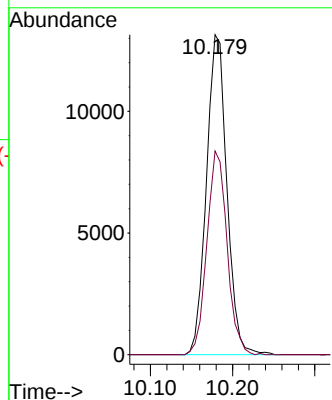
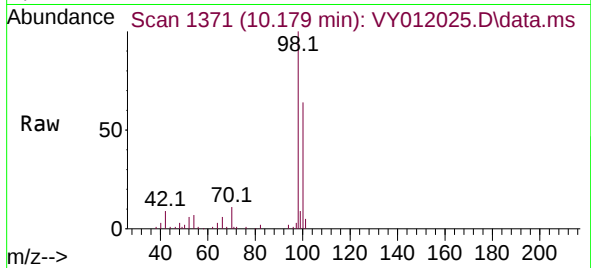




#50
Toluene-d8
Concen: 49.248 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

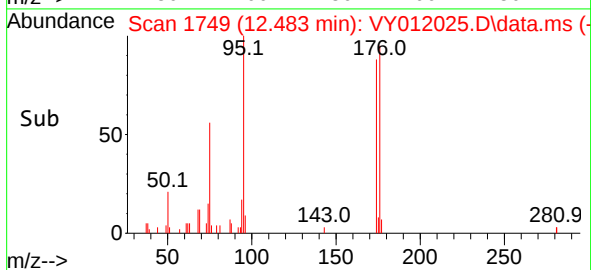
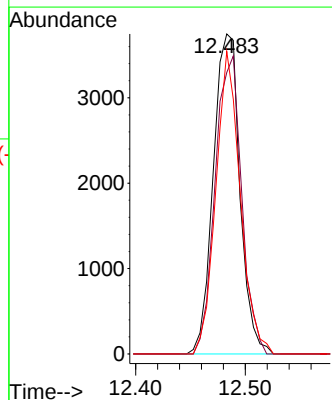
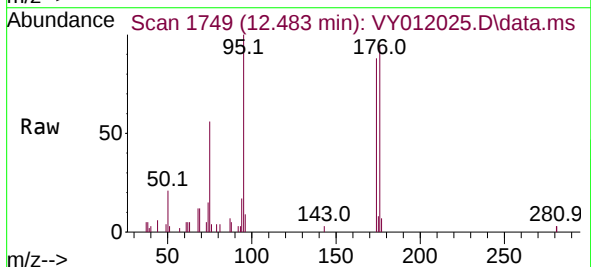
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

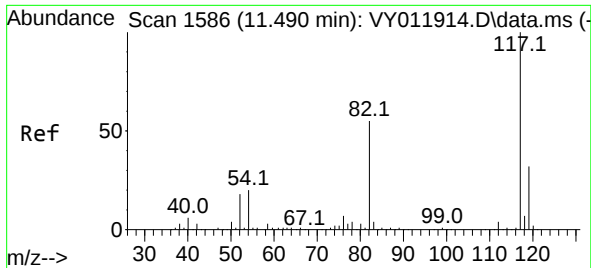
Tgt Ion: 98 Resp: 22735
Ion Ratio Lower Upper
98 100
100 62.9 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 40.712 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion: 95 Resp: 6321
Ion Ratio Lower Upper
95 100
174 92.5 0.0 172.0
176 86.8 0.0 167.6

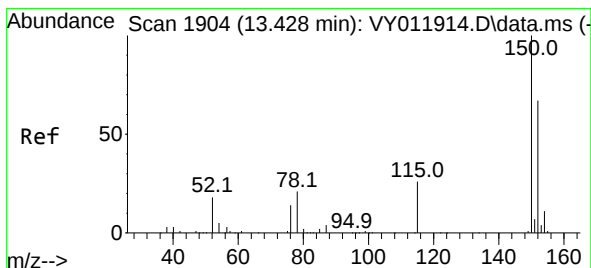
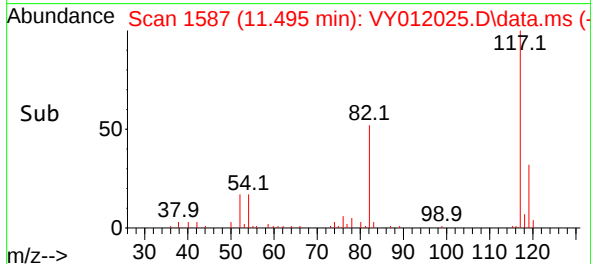
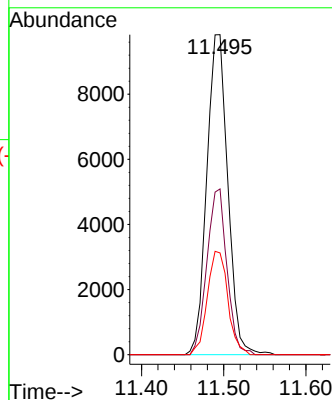
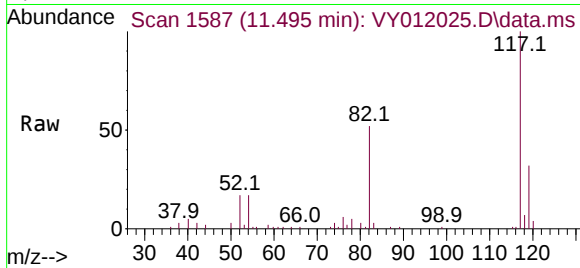




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

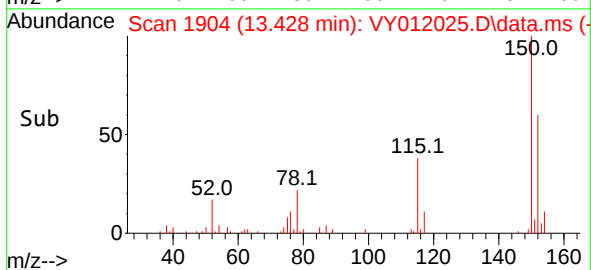
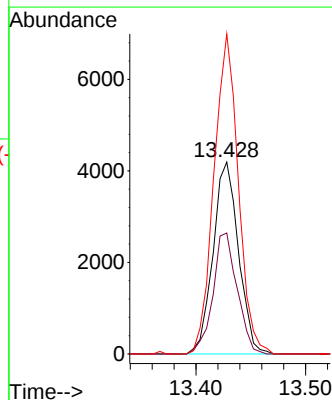
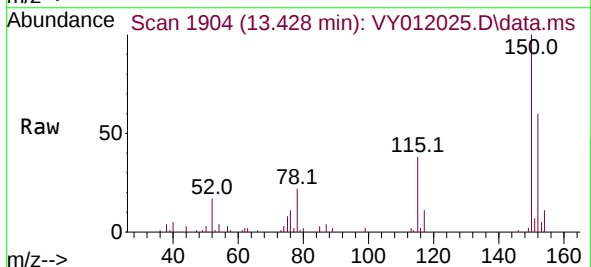
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

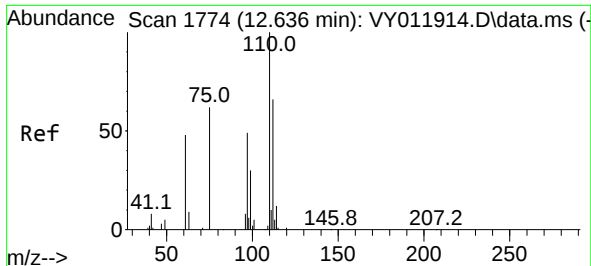
Tgt Ion:117 Resp: 17449
Ion Ratio Lower Upper
117 100
82 51.8 44.8 67.2
119 31.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion:152 Resp: 6751
Ion Ratio Lower Upper
152 100
115 60.0 29.1 87.3
150 159.9 0.0 342.6

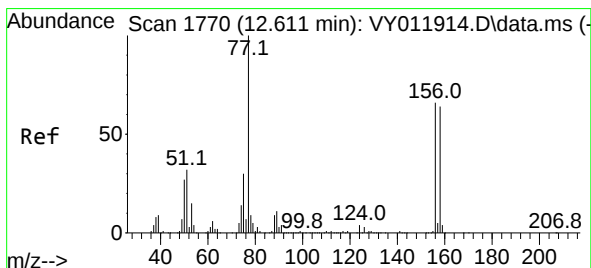
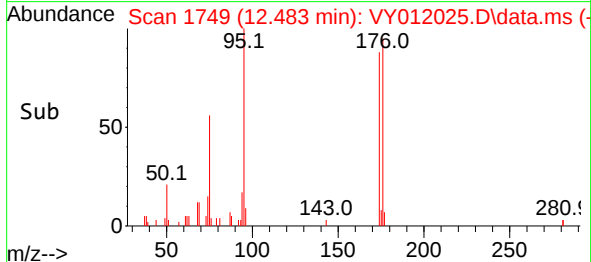
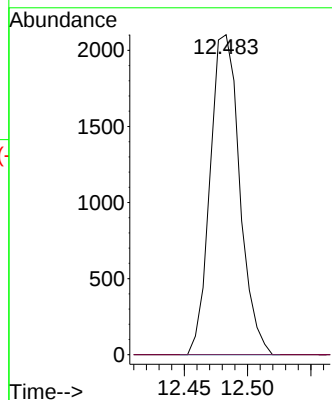
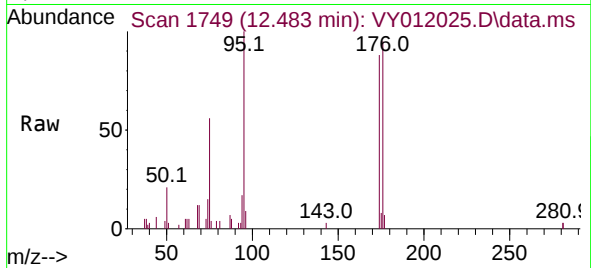




#76
1,2,3-Trichloropropane
Concen: 40.712 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

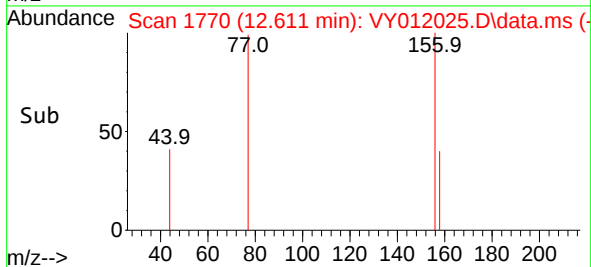
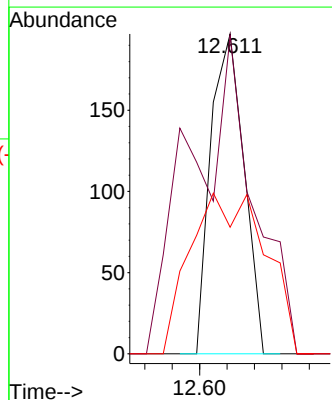
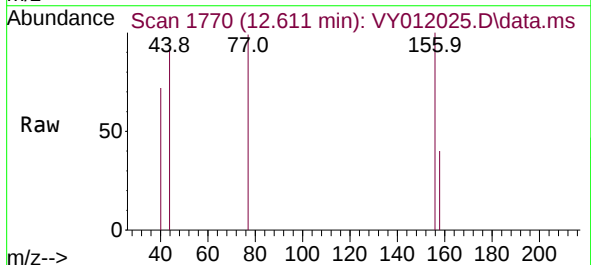
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

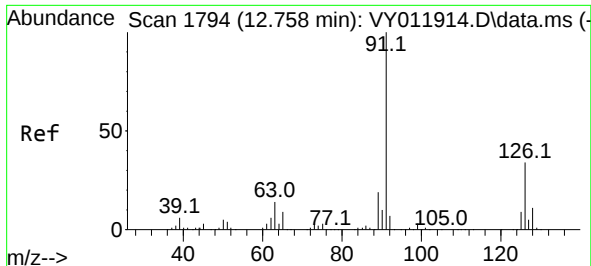
Tgt Ion: 75 Resp: 3420
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 1.432 ug/l
RT: 12.611 min Scan# 1770
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion: 156 Resp: 166
Ion Ratio Lower Upper
156 100
77 187.3 90.0 270.0
158 113.9 48.4 145.2

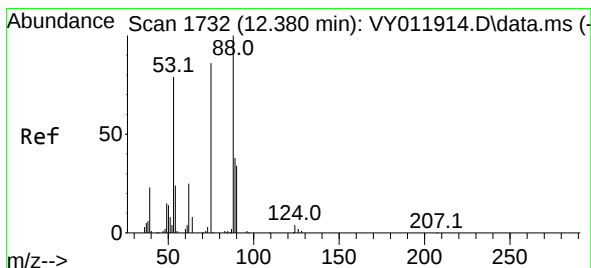
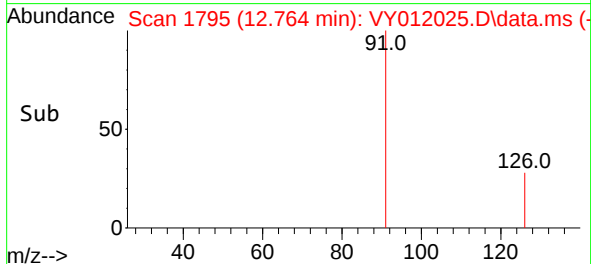
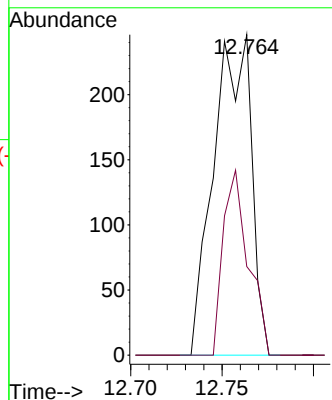
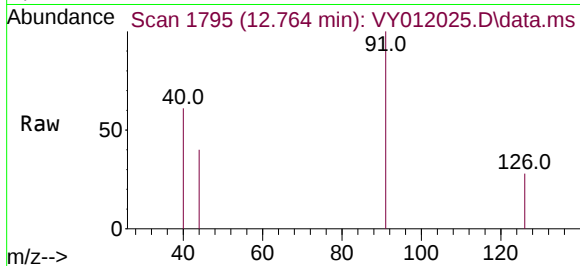




#79
2-Chlorotoluene
Concen: 1.040 ug/l
RT: 12.764 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

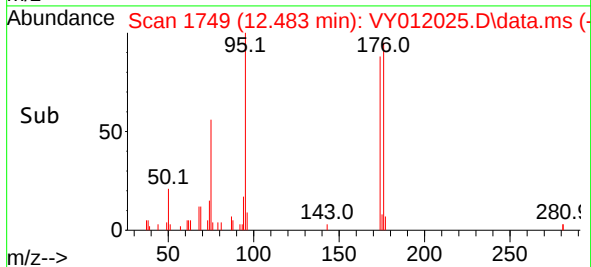
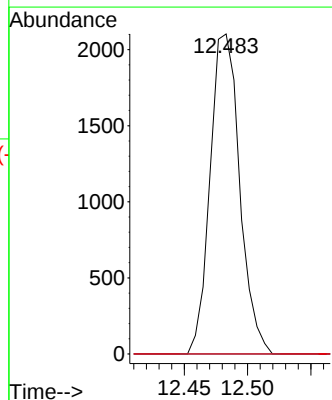
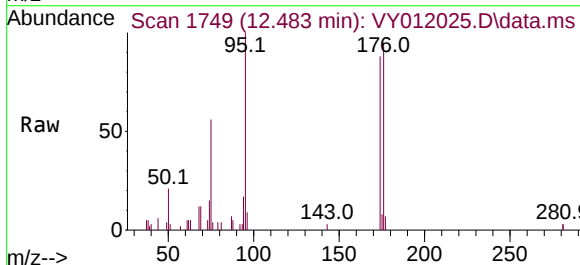
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

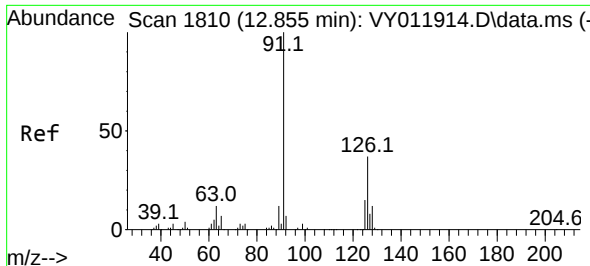
Tgt Ion: 91 Resp: 352
Ion Ratio Lower Upper
91 100
126 38.9 17.2 51.5



#81
trans-1,4-Dichloro-2-butene
Concen: 111.490 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion: 75 Resp: 3420
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#

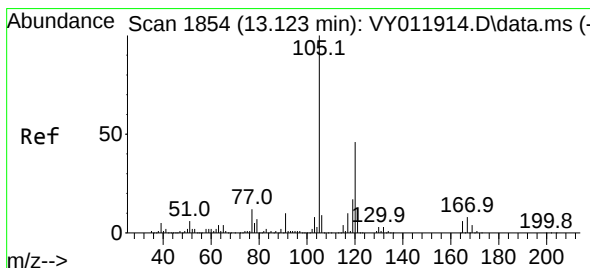
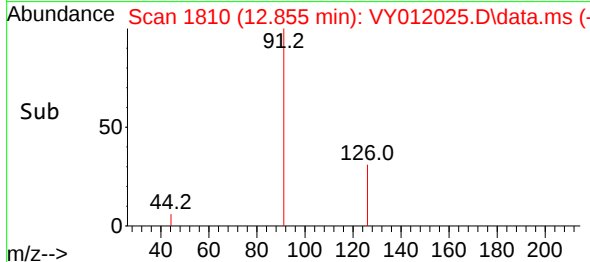
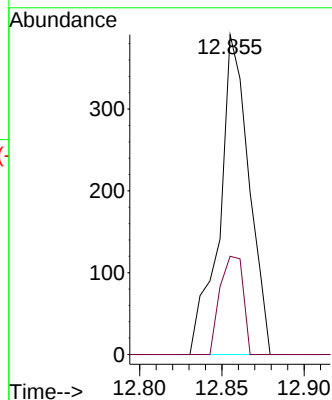
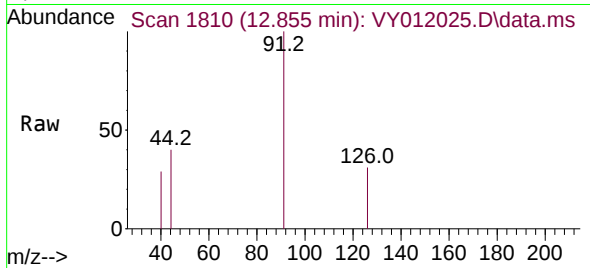




#82
4-Chlorotoluene
Concen: 1.391 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

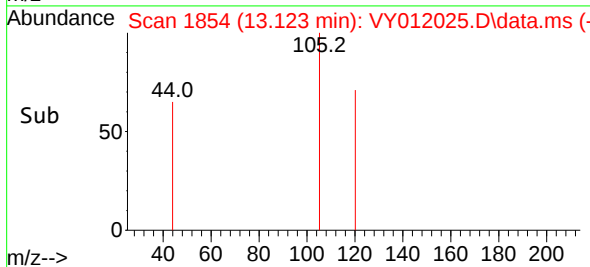
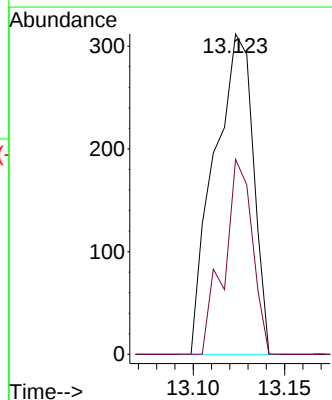
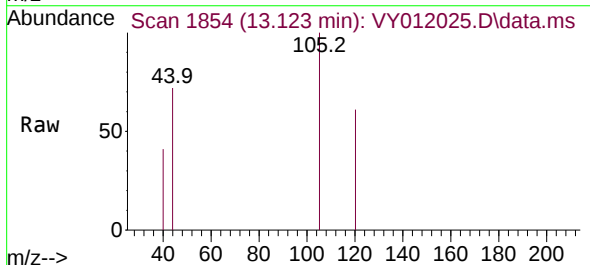
Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

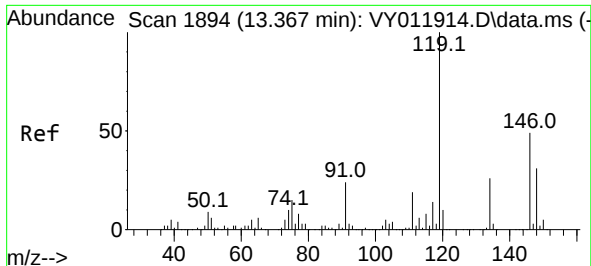
Tgt Ion: 91 Resp: 487
Ion Ratio Lower Upper
91 100
126 24.0 17.1 51.2



#84
1,2,4-Trimethylbenzene
Concen: 1.100 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion: 105 Resp: 464
Ion Ratio Lower Upper
105 100
120 44.4 22.9 68.7





#87

1,3-Dichlorobenzene

Concen: 2.261 ug/l

RT: 13.373 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

NB-8-122822

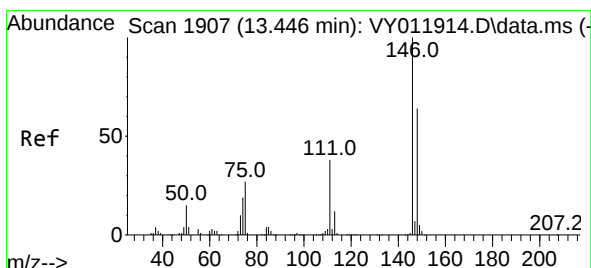
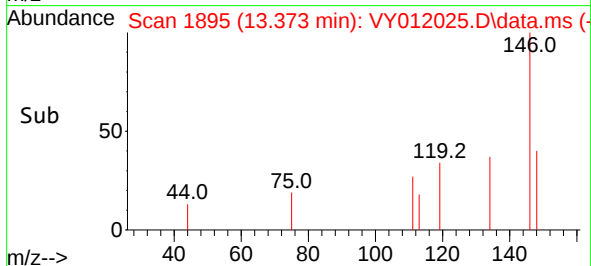
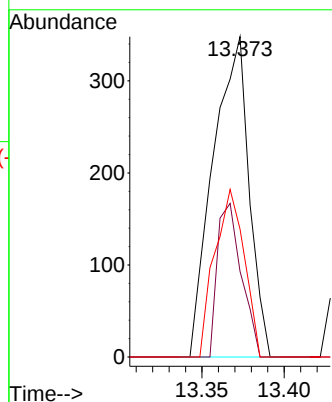
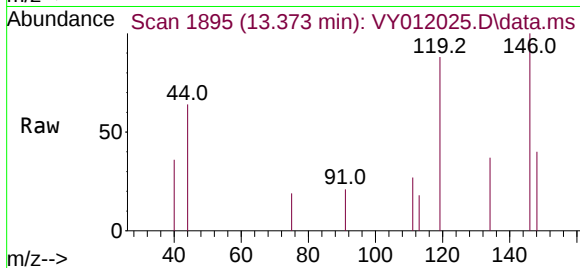
Tgt Ion:146 Resp: 527

Ion Ratio Lower Upper

146 100

111 32.1 19.7 59.0

148 43.1 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 2.227 ug/l

RT: 13.452 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

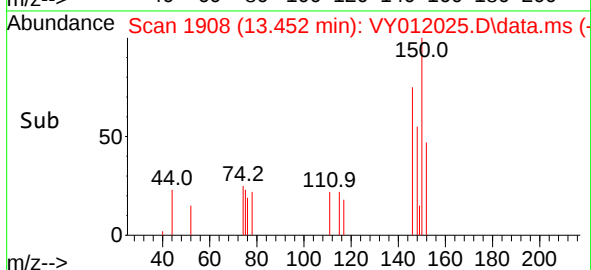
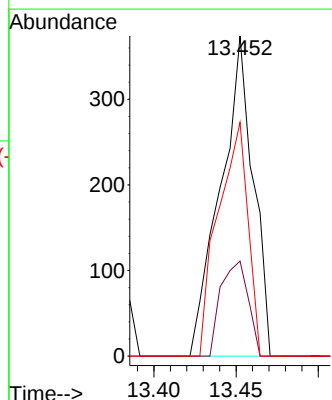
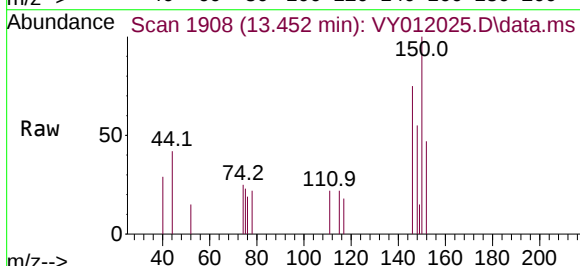
Tgt Ion:146 Resp: 516

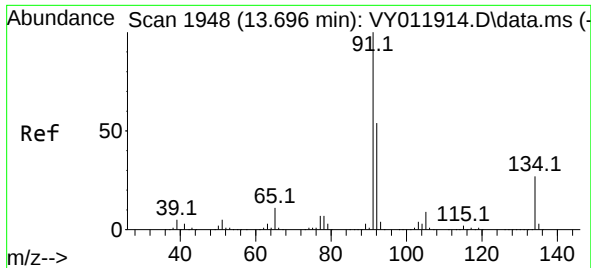
Ion Ratio Lower Upper

146 100

111 24.8 19.6 58.7

148 66.3 31.9 95.7





#89

n-Butylbenzene

Concen: 1.071 ug/l

RT: 13.702 min Scan# 1949

Delta R.T. 0.006 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

NB-8-122822

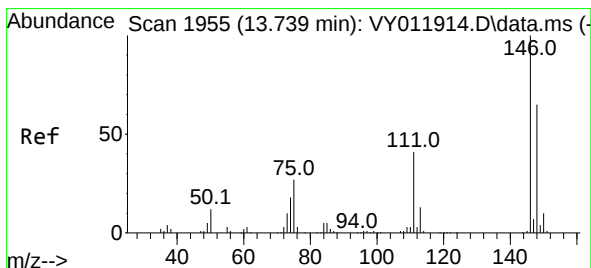
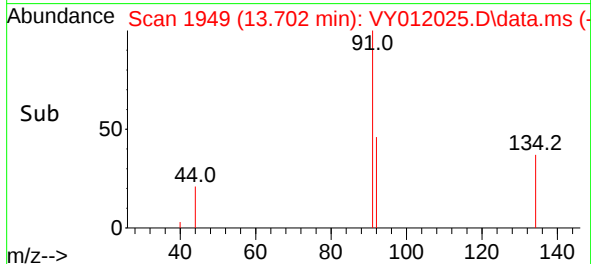
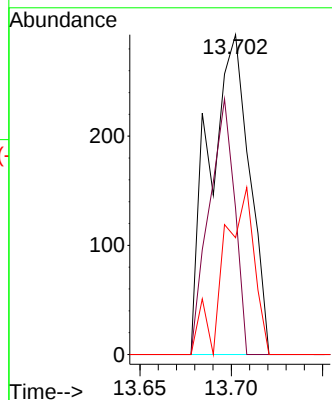
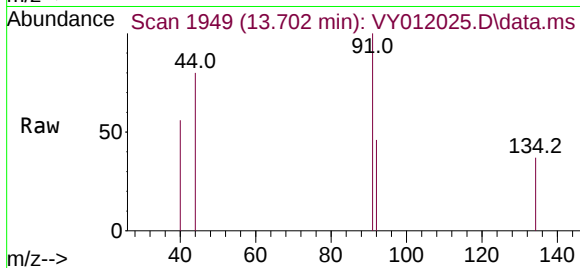
Tgt Ion: 91 Resp: 444

Ion Ratio Lower Upper

91 100

92 51.4 26.8 80.4

134 40.3 13.3 39.8#



#91

1,2-Dichlorobenzene

Concen: 2.165 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. -0.000 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

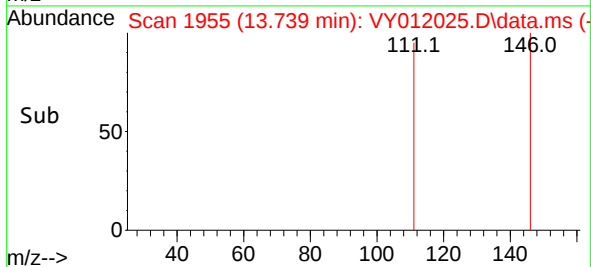
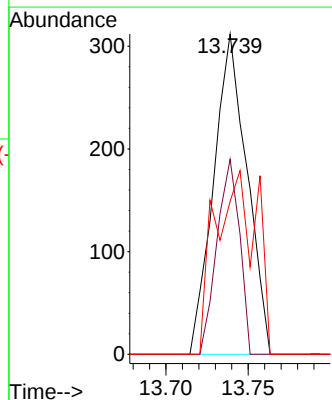
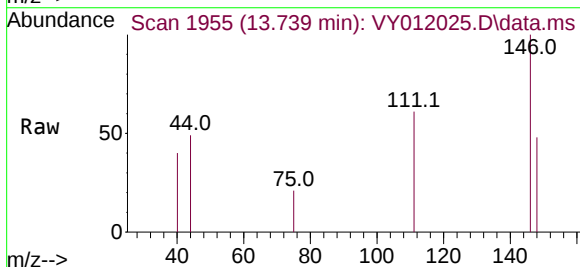
Tgt Ion:146 Resp: 440

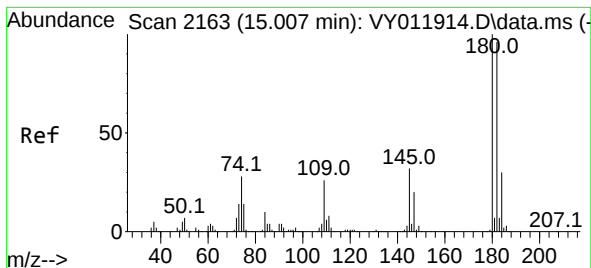
Ion Ratio Lower Upper

146 100

111 41.1 20.3 60.8

148 70.5 31.8 95.4





#93

1,2,4-Trichlorobenzene

Concen: 1.757 ug/l

RT: 15.013 min Scan# 2163

Delta R.T. 0.006 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

Instrument :

MSVOA_Y

ClientSampleId :

NB-8-122822

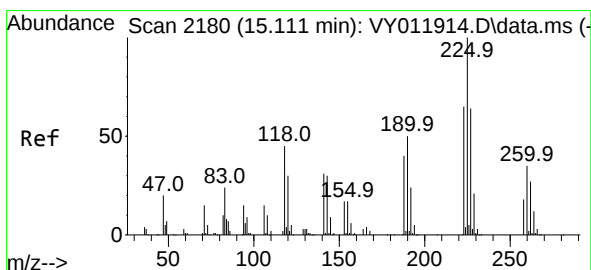
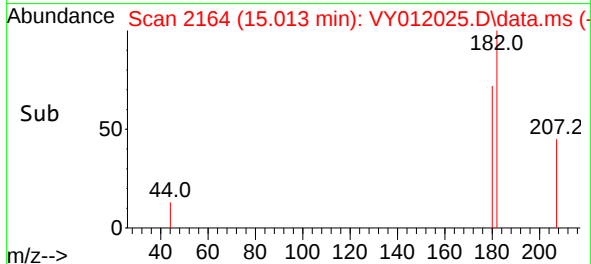
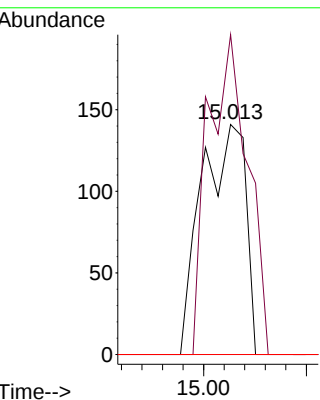
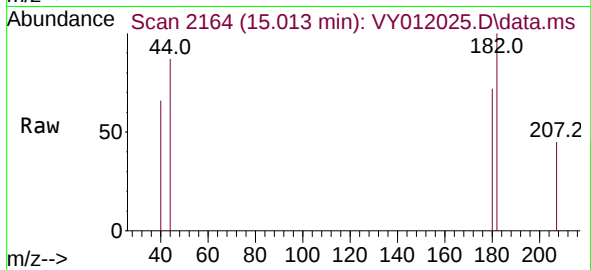
Tgt Ion:180 Resp: 210

Ion Ratio Lower Upper

180 100

182 124.8 48.1 144.3

145 0.0 15.4 46.4#



#94

Hexachlorobutadiene

Concen: 1.113 ug/l

RT: 15.111 min Scan# 2180

Delta R.T. -0.000 min

Lab File: VY012025.D

Acq: 29 Dec 2022 14:05

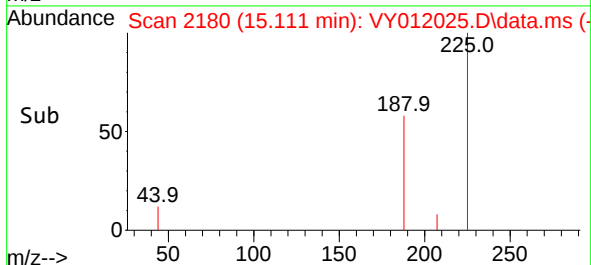
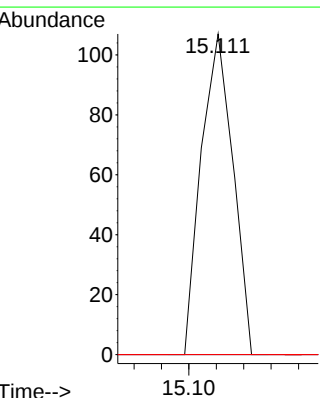
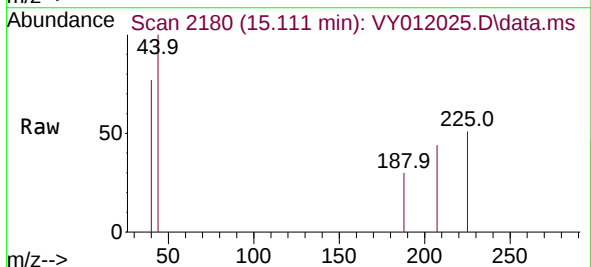
Tgt Ion:225 Resp: 86

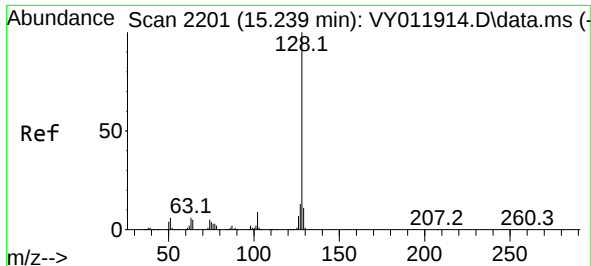
Ion Ratio Lower Upper

225 100

223 0.0 31.4 94.2#

227 0.0 32.6 97.8#

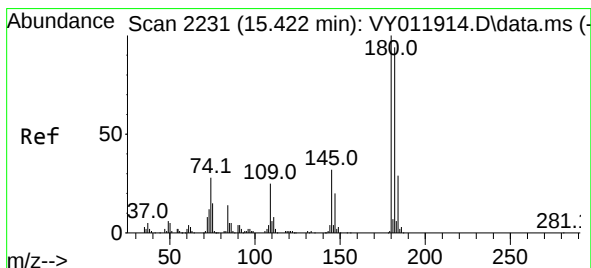
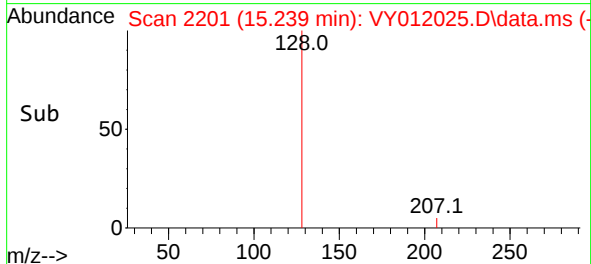
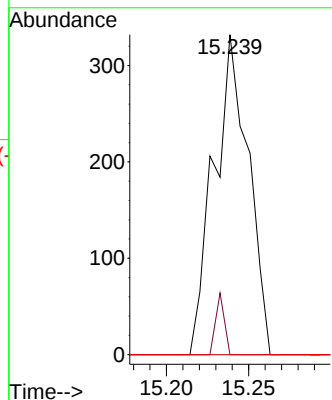
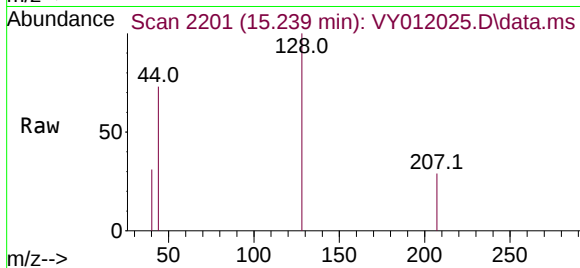




#95
Naphthalene
Concen: 4.613 ug/l
RT: 15.239 min Scan# 211
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Instrument :
MSVOA_Y
ClientSampleId :
NB-8-122822

Tgt Ion:128 Resp: 483
Ion Ratio Lower Upper
128 100
127 4.8 10.2 15.2#
129 0.0 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 2.681 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY012025.D
Acq: 29 Dec 2022 14:05

Tgt Ion:180 Resp: 271
Ion Ratio Lower Upper
180 100
182 96.3 47.9 143.7
145 0.0 16.1 48.2#

