

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022344.D
 Acq On : 20 May 2025 15:45
 Operator : SY/MD
 Sample : Q2075-02
 Misc : 8.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SS-910

Quant Time: May 21 01:50:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

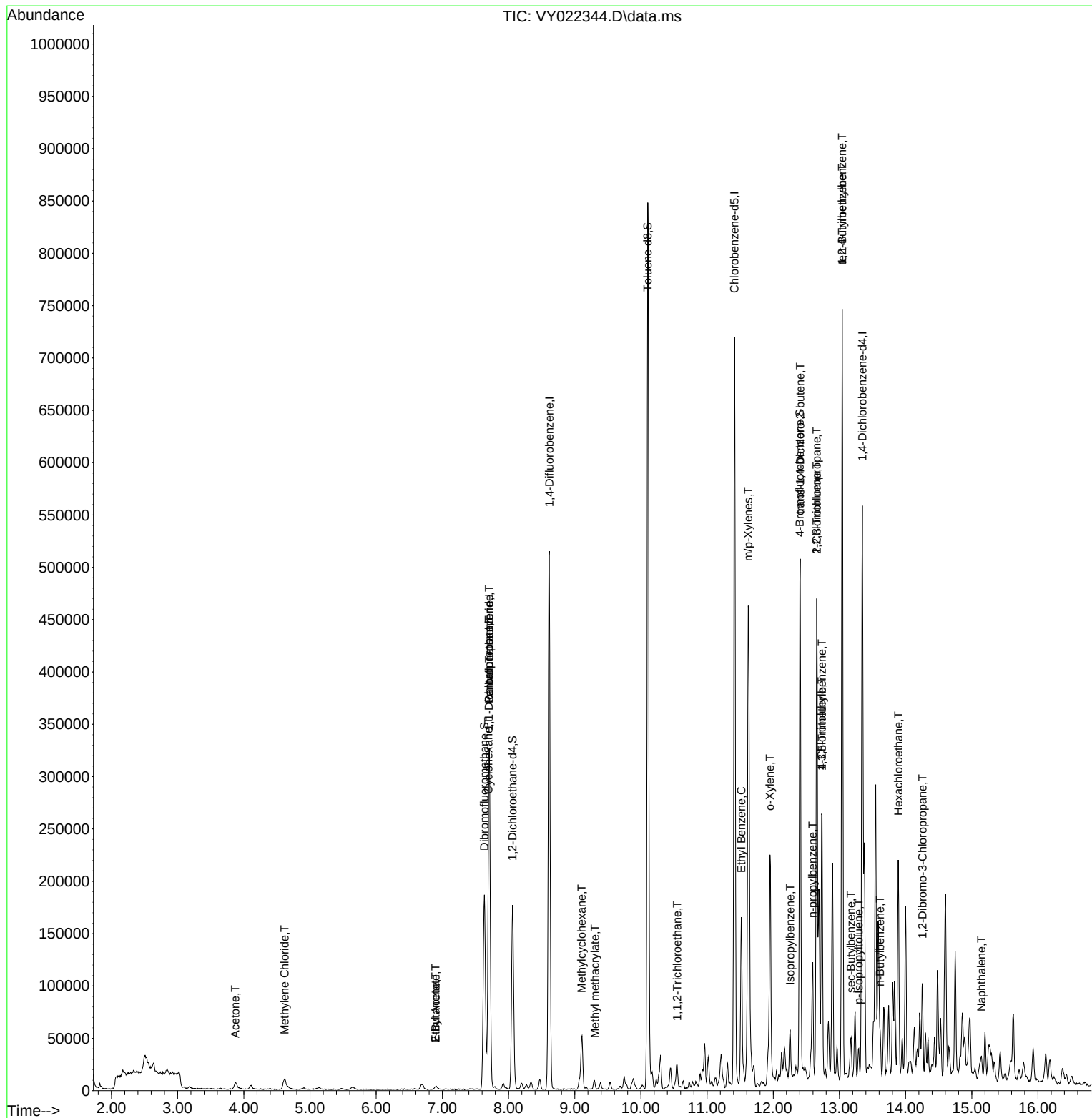
Internal Standards						
1) Pentafluorobenzene	7.707	168	241551	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	430984	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	344445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	126954	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	128674	48.742	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.480%		
35) Dibromofluoromethane	7.634	113	127466	49.552	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.100%		
50) Toluene-d8	10.103	98	512727	48.668	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.340%		
62) 4-Bromofluorobenzene	12.402	95	133041	39.841	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	79.680%		
Target Compounds					Qvalue	
16) Acetone	3.873	43	11631	23.497	ug/l	92
20) Methylene Chloride	4.616	84	6624	2.071	ug/l #	81
25) 2-Butanone	6.896	43	4548	5.493	ug/l	99
31) Cyclohexane	7.695	56	12121	2.270	ug/l #	79
36) 1,1-Dichloropropene	7.701	75	21177	4.998	ug/l #	51
37) Ethyl Acetate	6.896	43	4548	2.231	ug/l #	70
38) Carbon Tetrachloride	7.707	117	24857	5.668	ug/l #	16
39) Methylcyclohexane	9.103	83	21570	3.789	ug/l	97
48) Methyl methacrylate	9.305	41	2241	1.078	ug/l #	59
55) 1,1,2-Trichloroethane	10.548	97	8527	4.077	ug/l #	18
67) Ethyl Benzene	11.518	91	102927	7.072	ug/l	95
68) m/p-Xylenes	11.621	106	133393	24.324	ug/l	97
69) o-Xylene	11.950	106	53096	10.233	ug/l	97
73) Isopropylbenzene	12.255	105	28275	2.688	ug/l	100
76) 1,2,3-Trichloropropane	12.658	75	3223	2.506	ug/l #	100
78) n-propylbenzene	12.597	91	83294	6.566	ug/l	99
79) 2-Chlorotoluene	12.658	91	35448	5.085	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.737	105	100815	11.874	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	78325	123.363	ug/l #	12
82) 4-Chlorotoluene	12.731	91	11031	1.538	ug/l #	41
83) tert-Butylbenzene	13.042	119	45307	6.004	ug/l #	68
84) 1,2,4-Trimethylbenzene	13.042	105	361565	42.901	ug/l	98
85) sec-Butylbenzene	13.176	105	22583	2.016	ug/l	87
86) p-Isopropyltoluene	13.292	119	12154	1.290	ug/l	99
89) n-Butylbenzene	13.615	91	19377	2.174	ug/l #	80
90) Hexachloroethane	13.889	117	5889	3.097	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.255	75	469	1.798	ug/l #	1
95) Naphthalene	15.145	128	12896	3.054	ug/l #	91

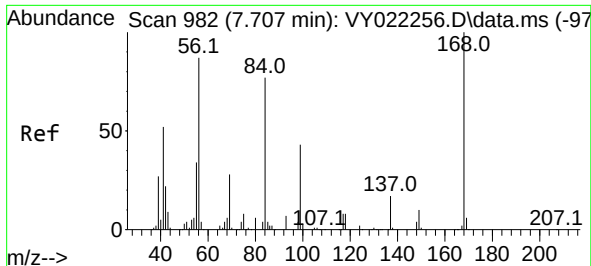
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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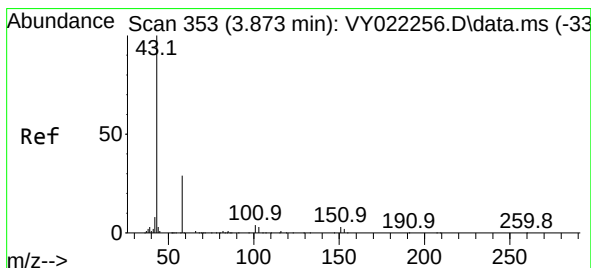
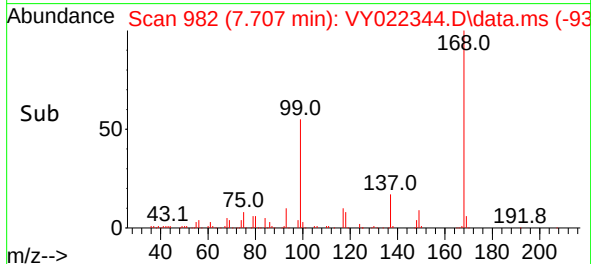
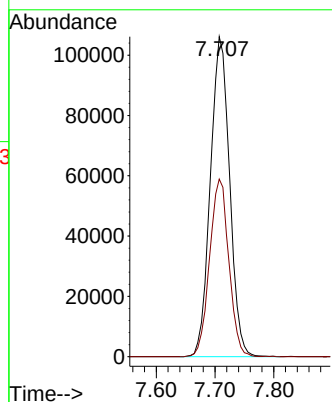
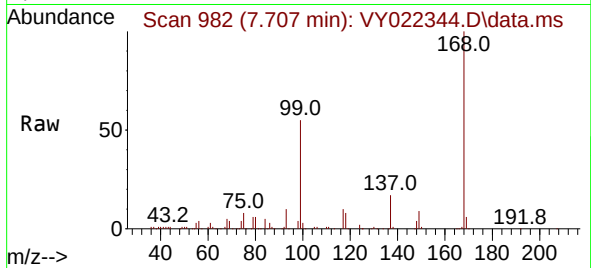




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

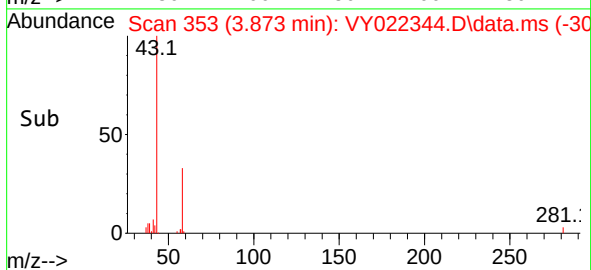
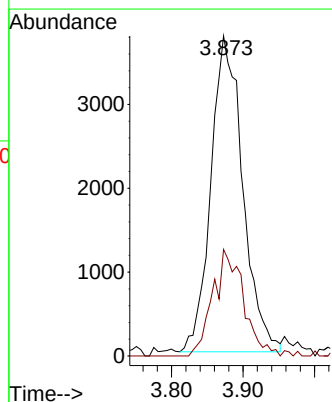
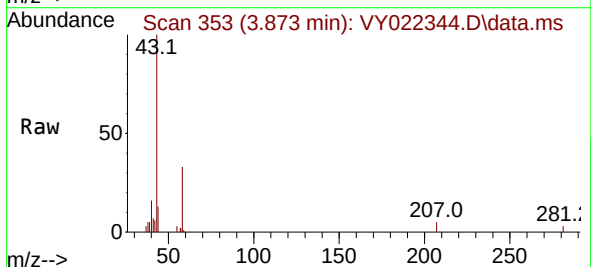
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

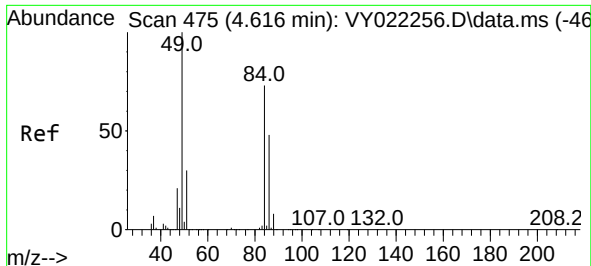
Tgt Ion:168 Resp: 241551
Ion Ratio Lower Upper
168 100
99 55.5 44.2 66.4



#16
Acetone
Concen: 23.497 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 43 Resp: 11631
Ion Ratio Lower Upper
43 100
58 33.8 23.6 35.4

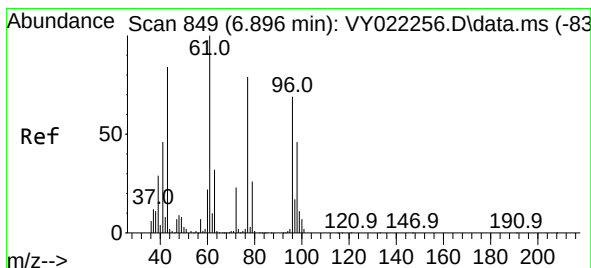
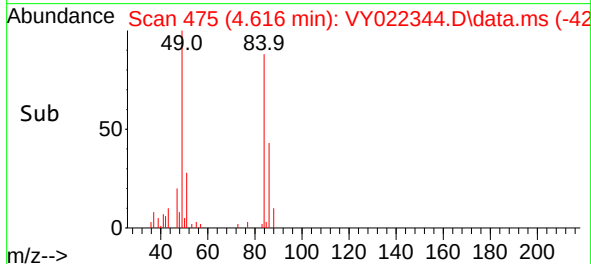
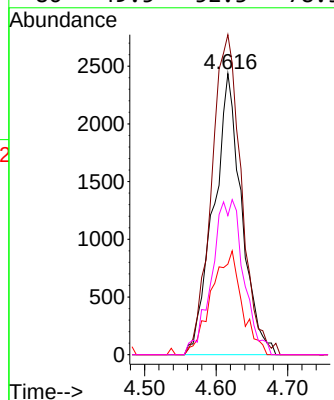
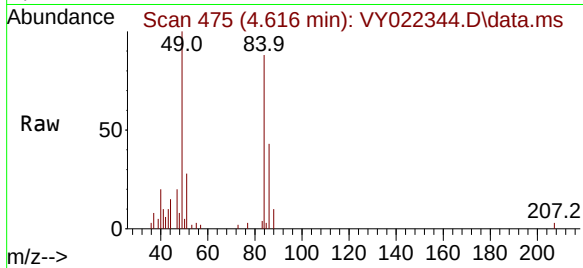




#20
Methylene Chloride
Concen: 2.071 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

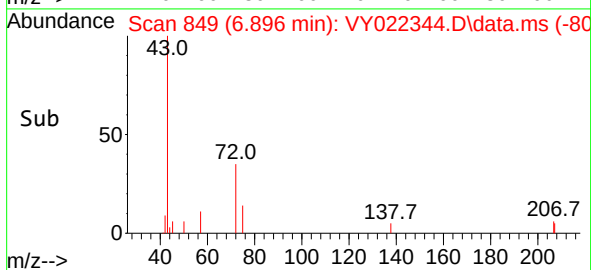
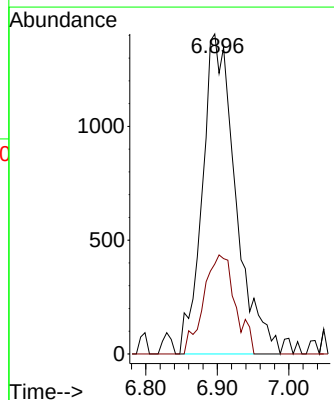
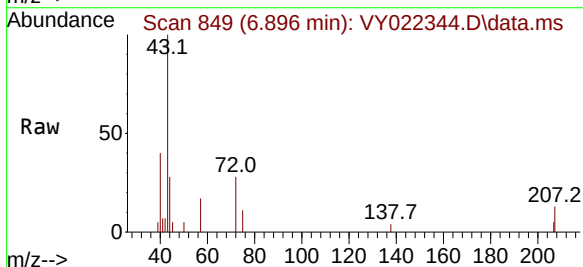
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

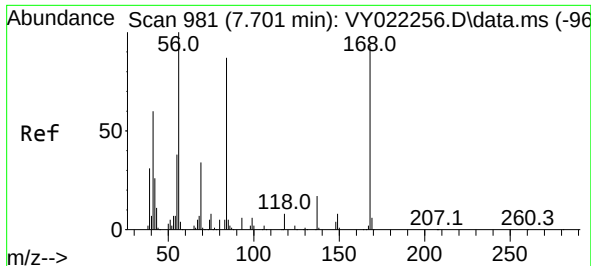
Tgt Ion:	84	Resp:	6624
Ion	Ratio	Lower	Upper
84	100		
49	113.8	109.6	164.4
51	32.2	32.4	48.6#
86	49.5	52.3	78.5#



#25
2-Butanone
Concen: 5.493 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:	43	Resp:	4548
Ion	Ratio	Lower	Upper
43	100		
72	28.1	22.1	33.1

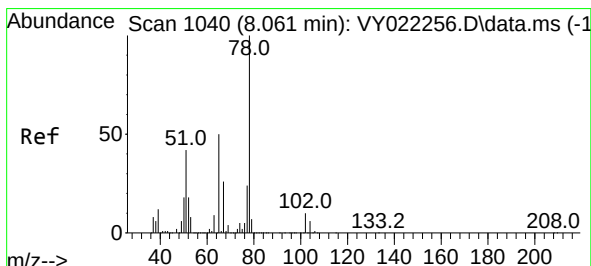
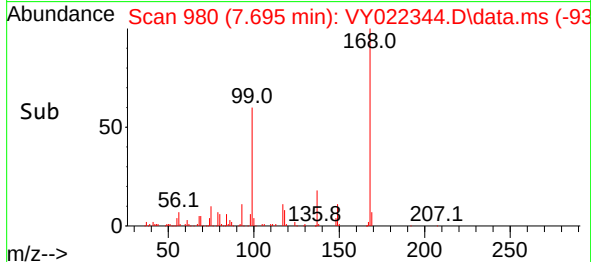
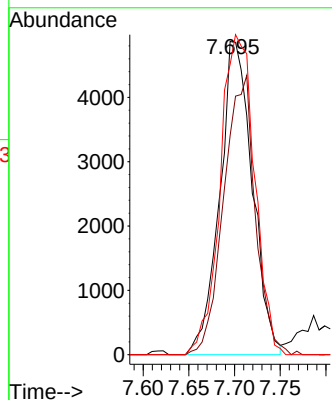
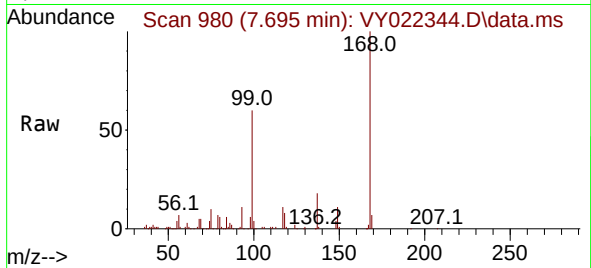




#31
Cyclohexane
Concen: 2.270 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

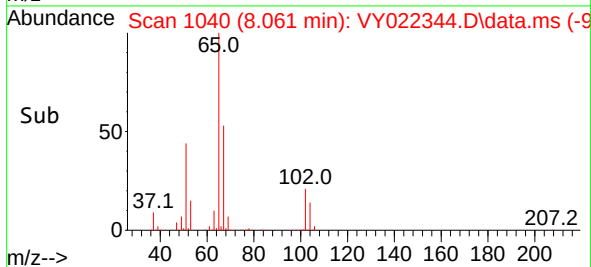
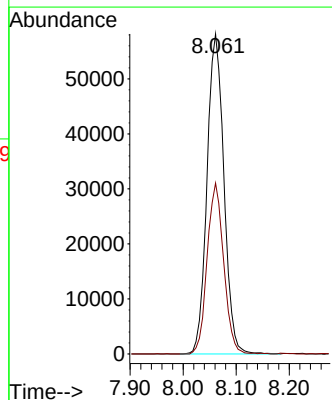
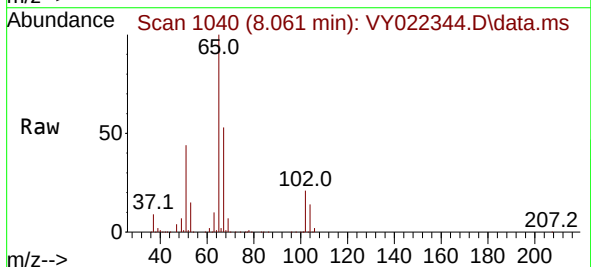
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

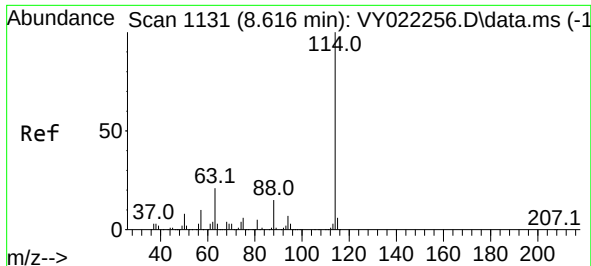
Tgt Ion: 56 Resp: 12121
Ion Ratio Lower Upper
56 100
69 69.9 27.4 41.2#
84 92.7 70.0 105.0



#33
1,2-Dichloroethane-d4
Concen: 48.742 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 65 Resp: 128674
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.6

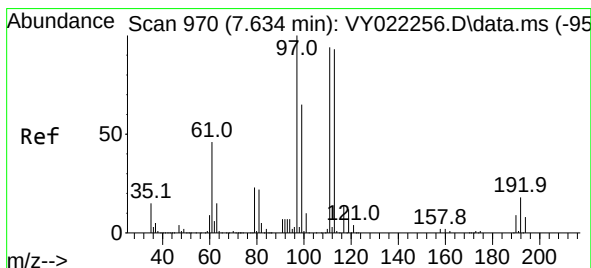
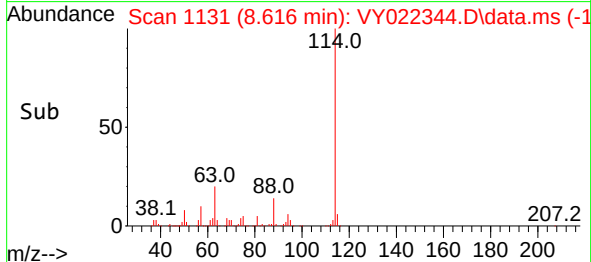
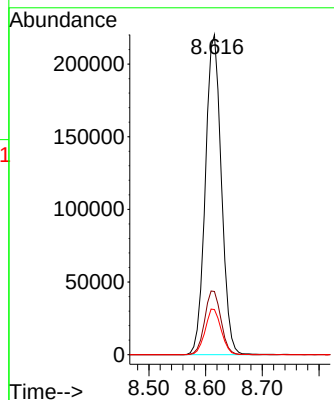
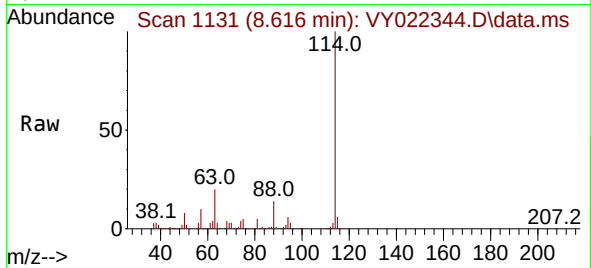




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.616 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: VY022344.D
 Acq: 20 May 2025 15:45

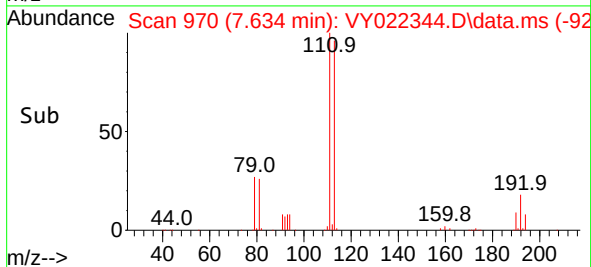
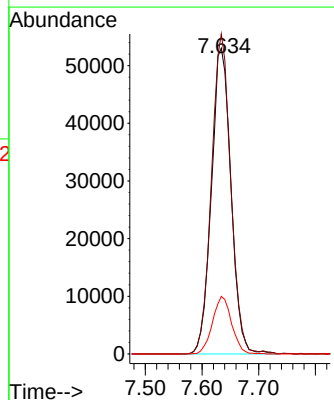
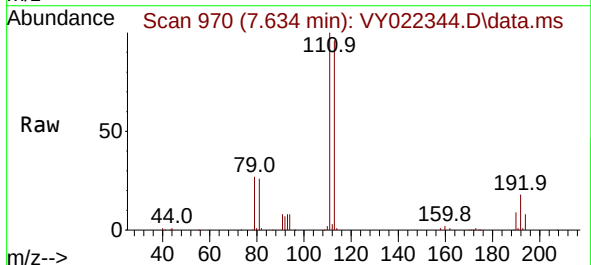
Instrument :
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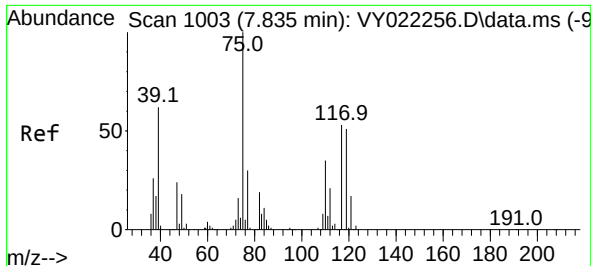
Tgt Ion:114 Resp: 430984
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.0
 88 14.1 0.0 29.4



#35
 Dibromofluoromethane
 Concen: 49.552 ug/l
 RT: 7.634 min Scan# 970
 Delta R.T. 0.000 min
 Lab File: VY022344.D
 Acq: 20 May 2025 15:45

Tgt Ion:113 Resp: 127466
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.6 123.8
 192 18.4 15.2 22.8





#36

1,1-Dichloropropene

Concen: 4.998 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

SS-910

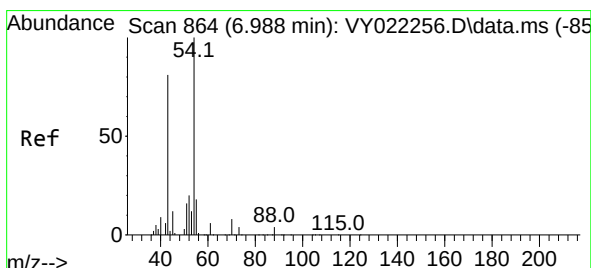
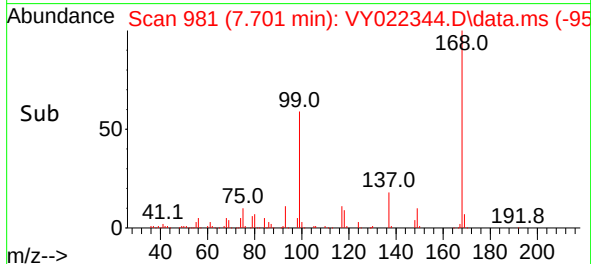
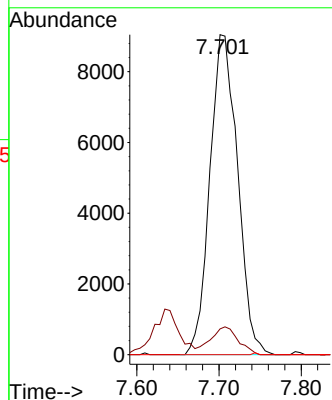
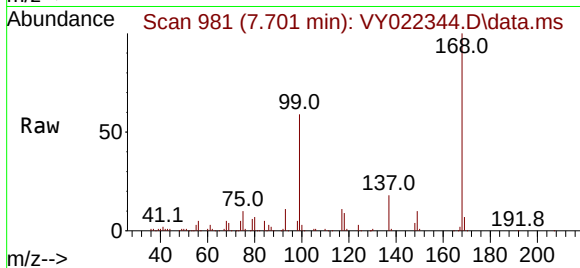
Tgt Ion: 75 Resp: 21177

Ion Ratio Lower Upper

75 100

110 8.8 16.6 49.8#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 2.231 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.091 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

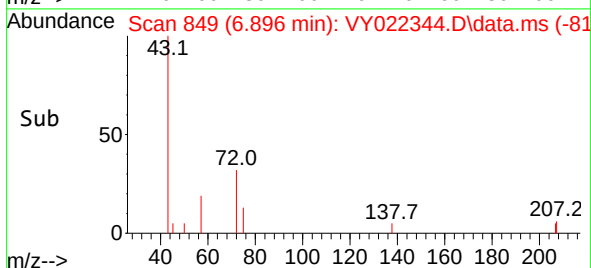
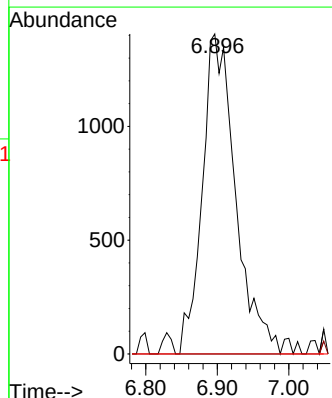
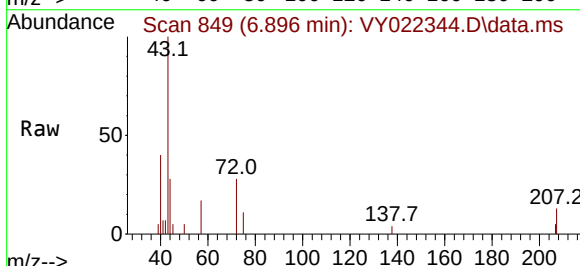
Tgt Ion: 43 Resp: 4548

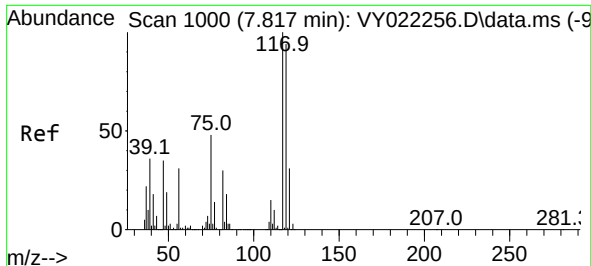
Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

70 0.0 7.6 11.4#

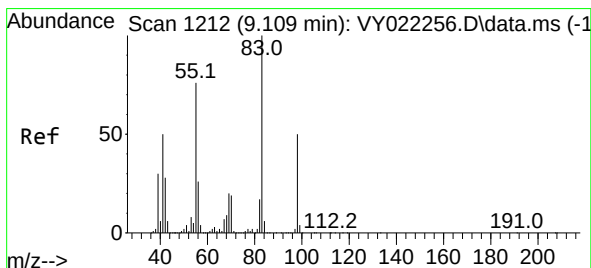
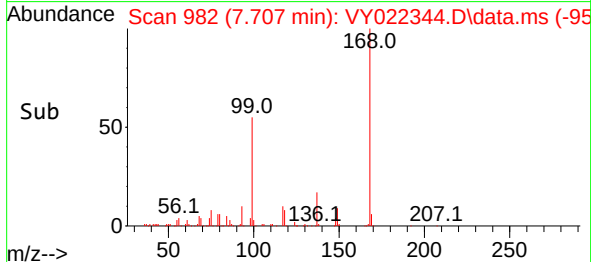
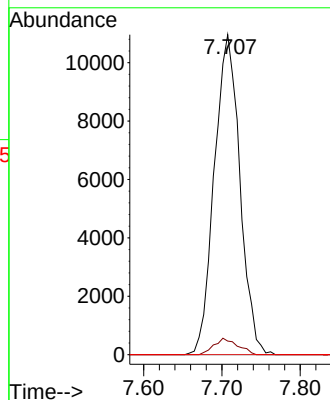
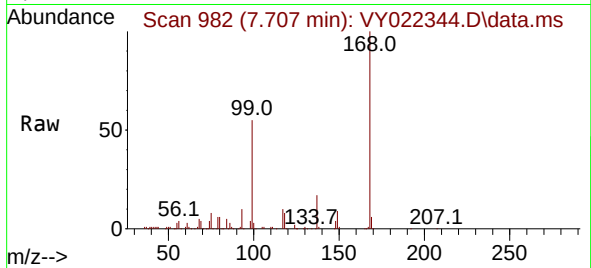




#38
Carbon Tetrachloride
Concen: 5.668 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

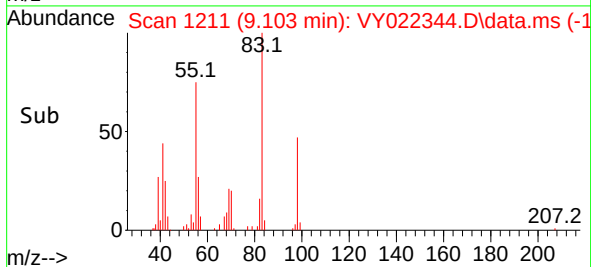
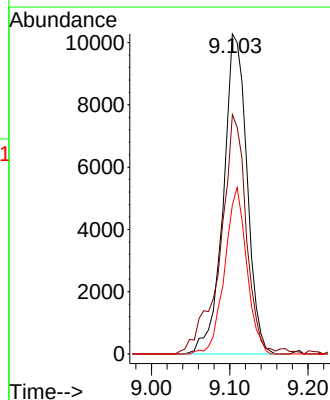
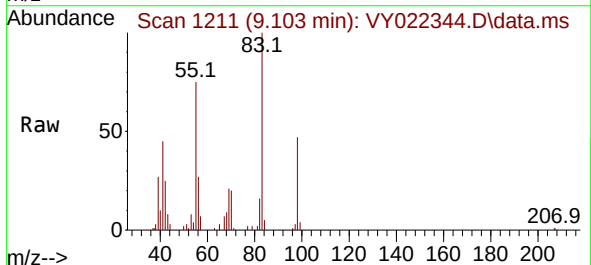
Instrument :
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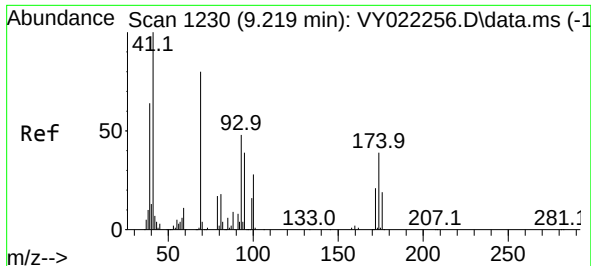
Tgt Ion:117 Resp: 24857
Ion Ratio Lower Upper
117 100
119 4.2 75.3 112.9#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 3.789 ug/l
RT: 9.103 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 83 Resp: 21570
Ion Ratio Lower Upper
83 100
55 74.0 60.6 90.8
98 46.6 40.0 60.0





#48

Methyl methacrylate

Concen: 1.078 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.085 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

SS-910

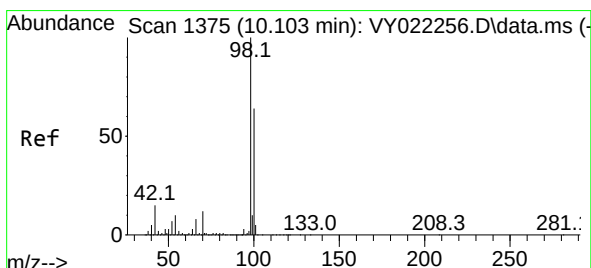
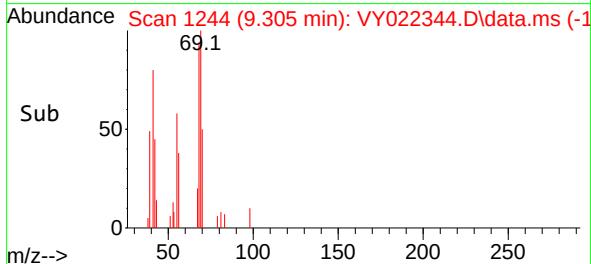
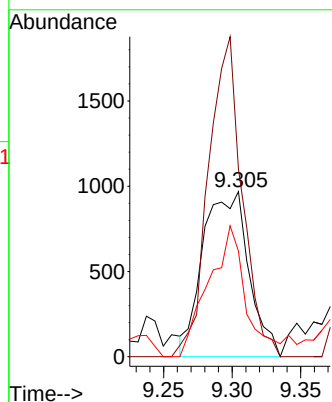
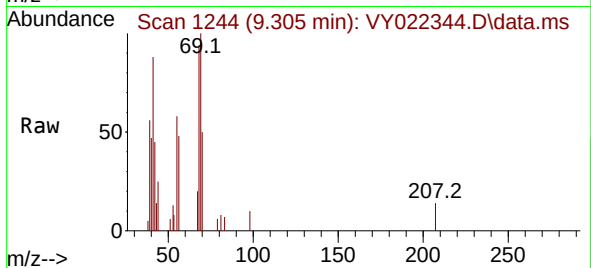
Tgt Ion: 41 Resp: 2241

Ion Ratio Lower Upper

41 100

69 143.0 63.5 95.3#

39 64.5 50.8 76.2



#50

Toluene-d8

Concen: 48.668 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY022344.D

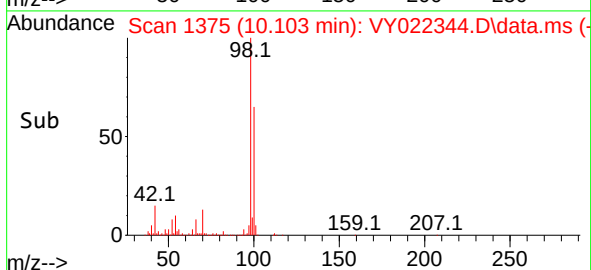
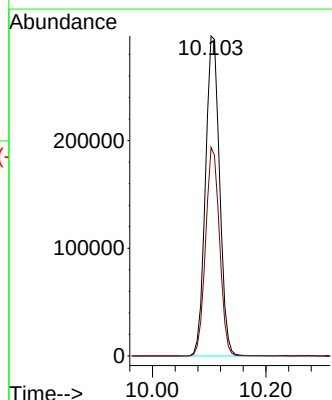
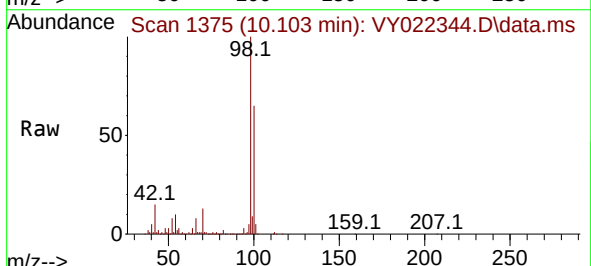
Acq: 20 May 2025 15:45

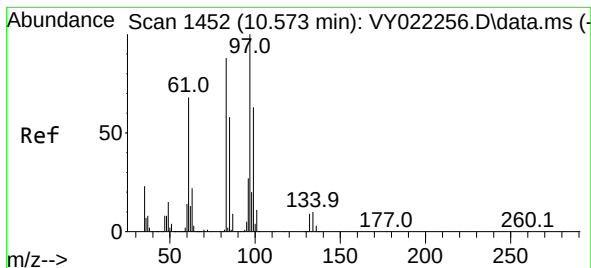
Tgt Ion: 98 Resp: 512727

Ion Ratio Lower Upper

98 100

100 64.3 51.8 77.8

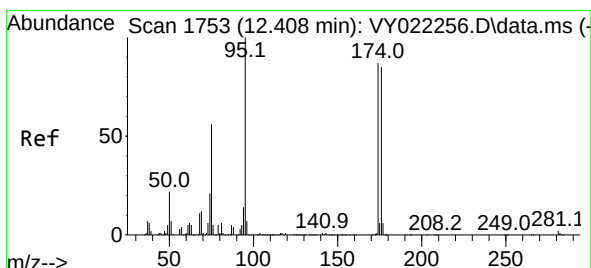
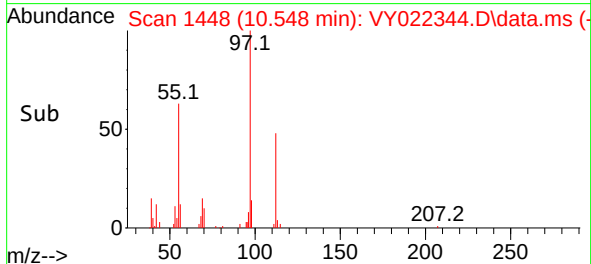
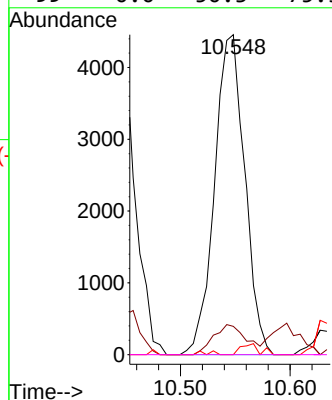
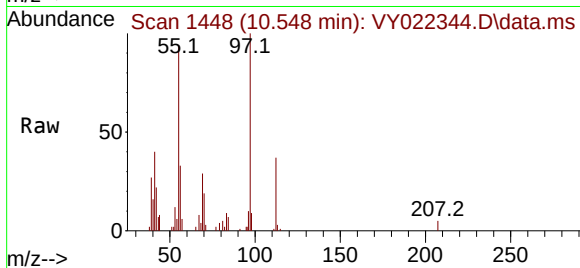




#55
1,1,2-Trichloroethane
Concen: 4.077 ug/l
RT: 10.548 min Scan# 1452
Delta R.T. -0.024 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

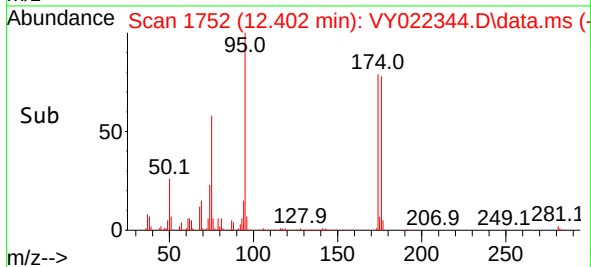
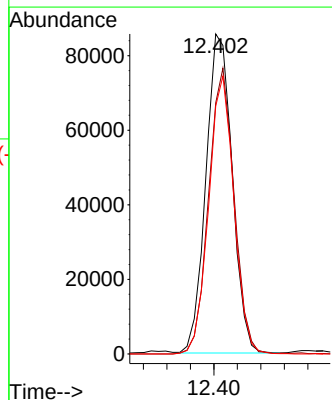
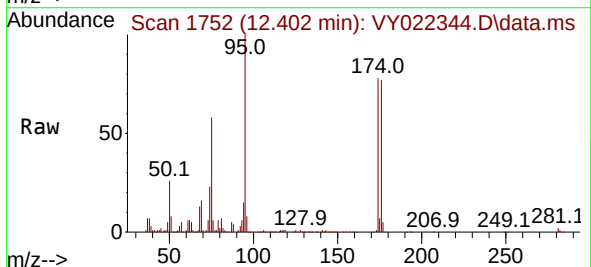
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

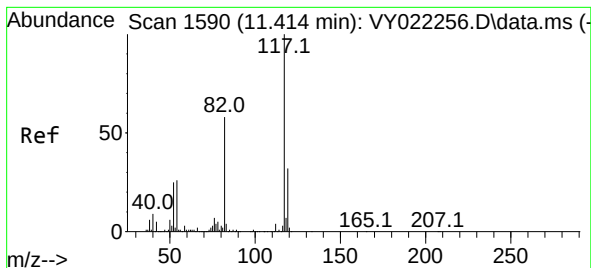
Tgt Ion: 97	Resp: 8527
Ion Ratio	Lower Upper
97 100	
83 8.8	70.3 105.5#
85 0.0	46.2 69.4#
99 0.0	50.3 75.5#



#62
4-Bromofluorobenzene
Concen: 39.841 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 95	Resp: 133041
Ion Ratio	Lower Upper
95 100	
174 86.7	0.0 166.8
176 83.5	0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

SS-910

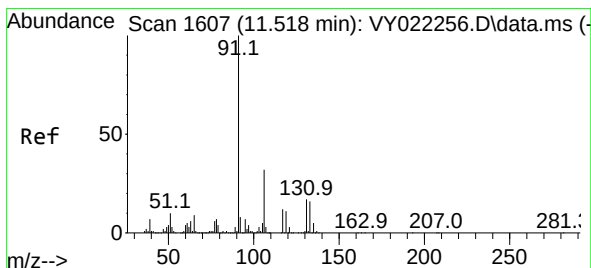
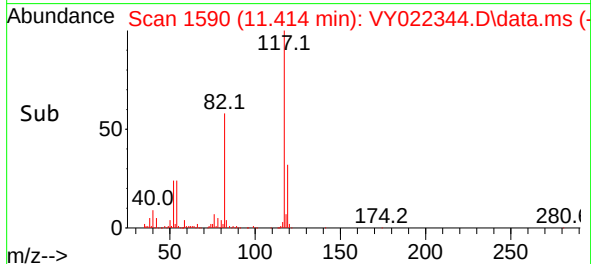
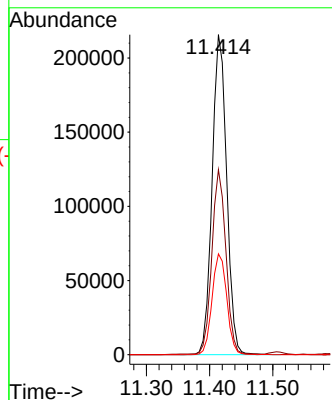
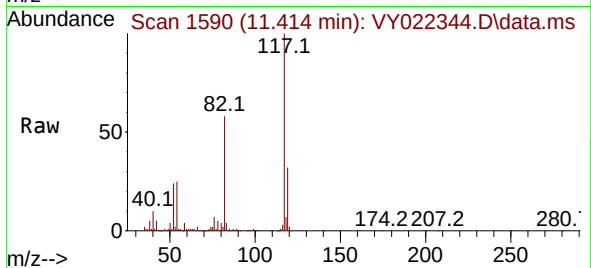
Tgt Ion:117 Resp: 344445

Ion Ratio Lower Upper

117 100

82 57.6 46.6 70.0

119 31.5 25.8 38.6



#67

Ethyl Benzene

Concen: 7.072 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY022344.D

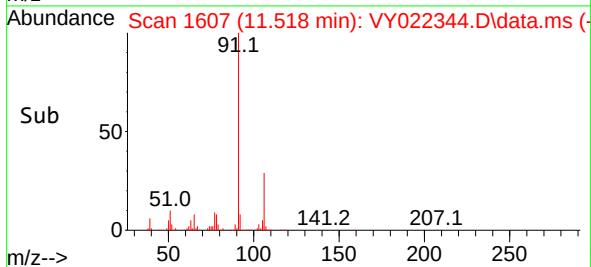
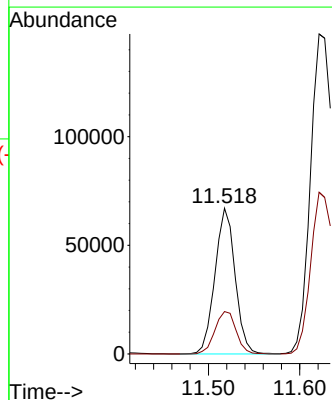
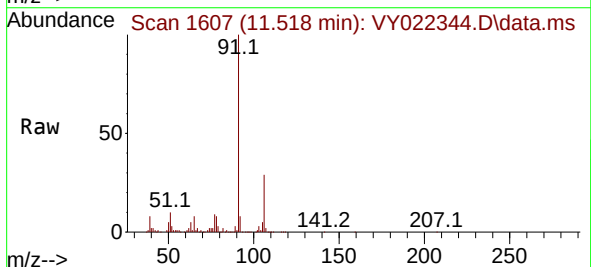
Acq: 20 May 2025 15:45

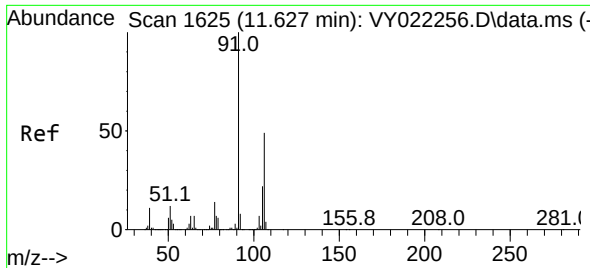
Tgt Ion: 91 Resp: 102927

Ion Ratio Lower Upper

91 100

106 29.1 25.4 38.0

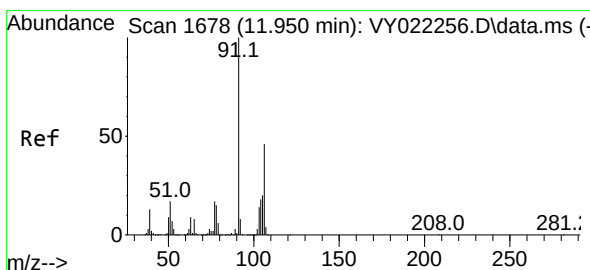
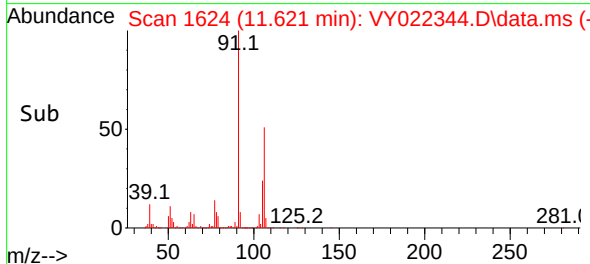
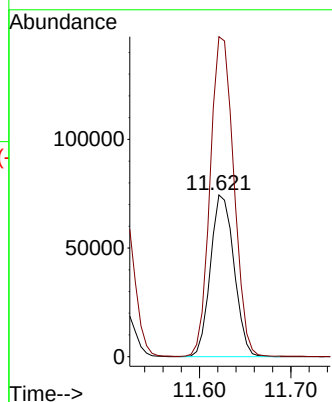
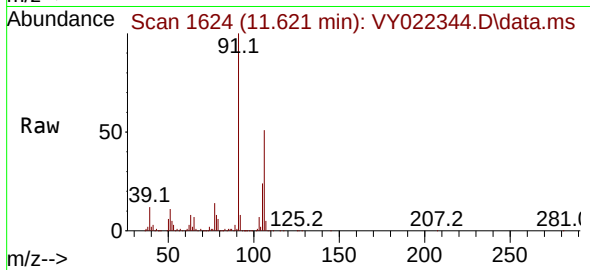




#68
m/p-Xylenes
Concen: 24.324 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

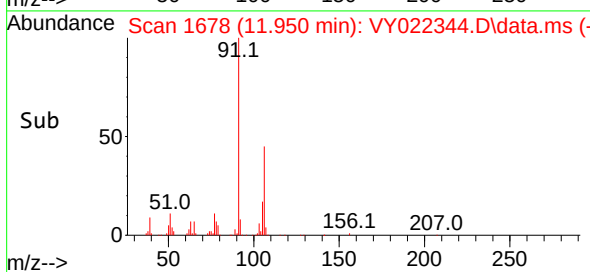
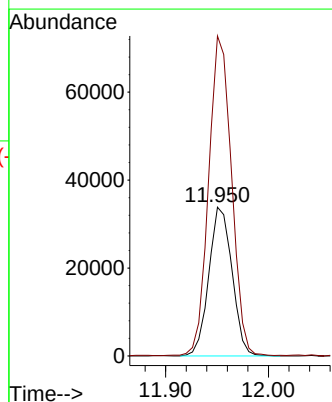
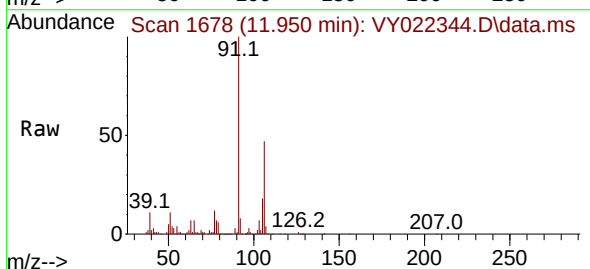
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

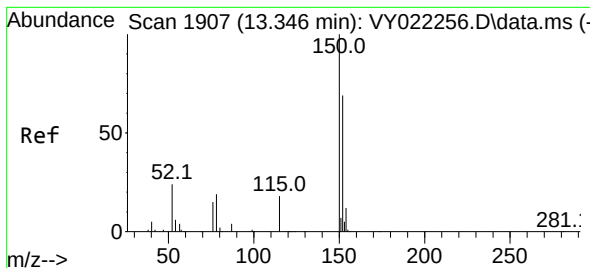
Tgt Ion:106 Resp: 133393
Ion Ratio Lower Upper
106 100
91 199.0 163.0 244.4



#69
o-Xylene
Concen: 10.233 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:106 Resp: 53096
Ion Ratio Lower Upper
106 100
91 212.1 108.3 324.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

SS-910

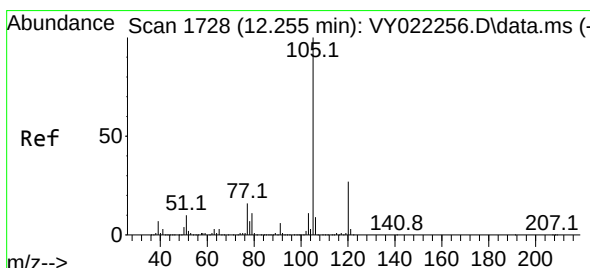
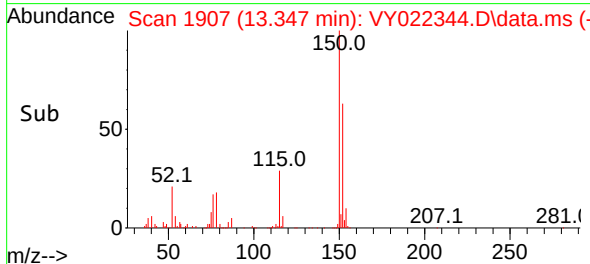
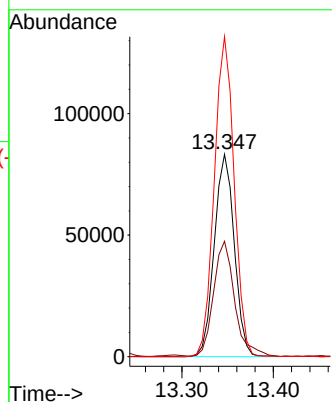
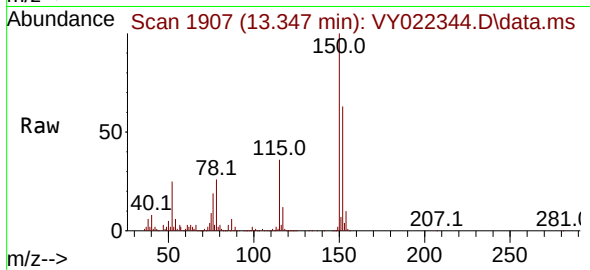
Tgt Ion:152 Resp: 126954

Ion Ratio Lower Upper

152 100

115 59.9 29.4 88.2

150 156.6 0.0 353.8



#73

Isopropylbenzene

Concen: 2.688 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.000 min

Lab File: VY022344.D

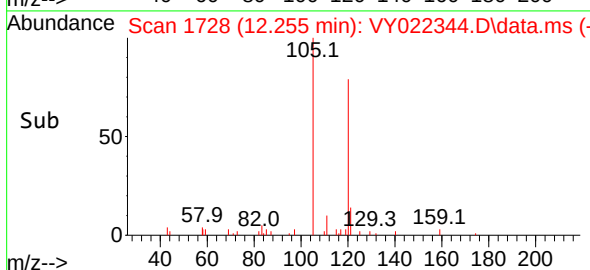
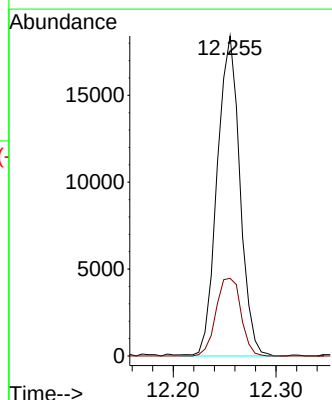
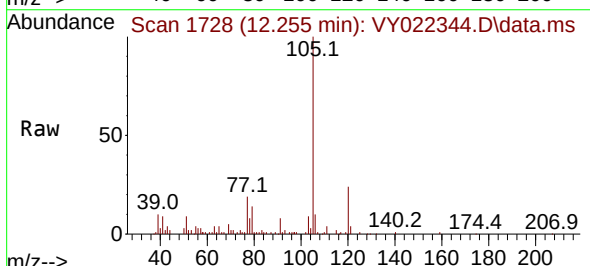
Acq: 20 May 2025 15:45

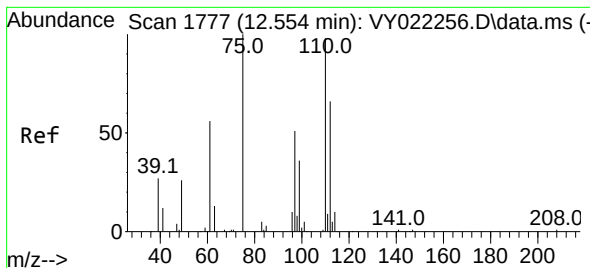
Tgt Ion:105 Resp: 28275

Ion Ratio Lower Upper

105 100

120 26.5 13.2 39.6

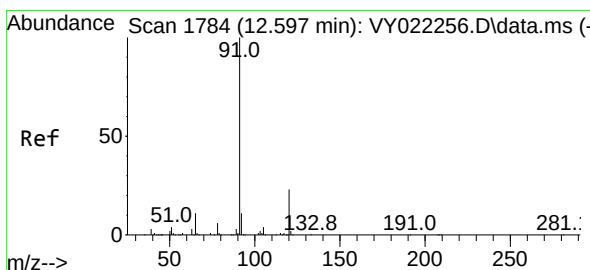
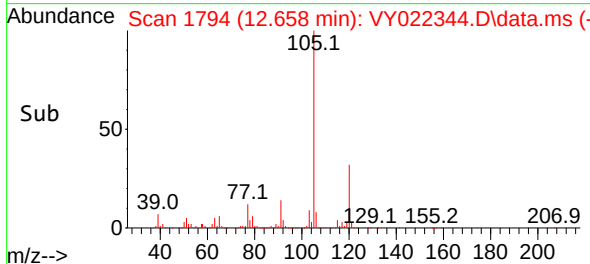
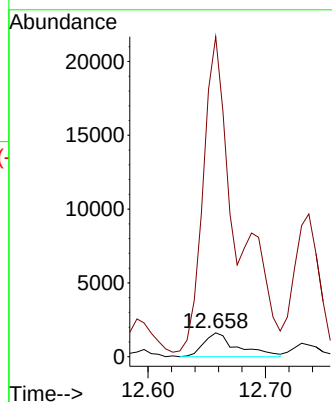
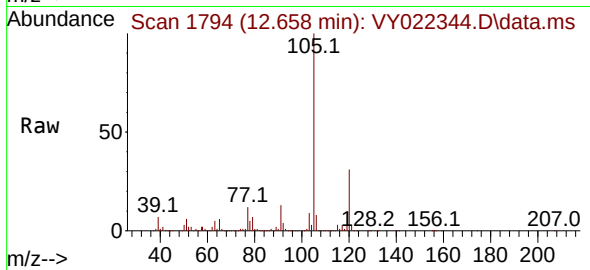




#76
1,2,3-Trichloropropane
Concen: 2.506 ug/l
RT: 12.658 min Scan# 1777
Delta R.T. 0.104 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

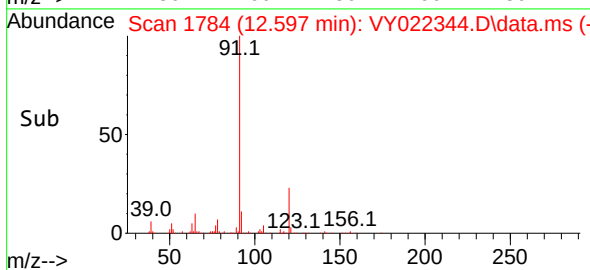
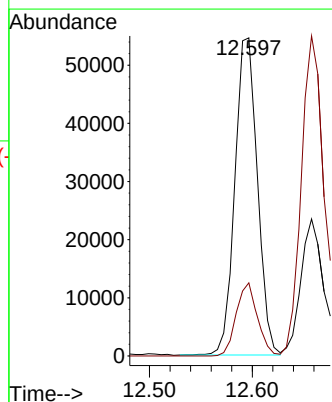
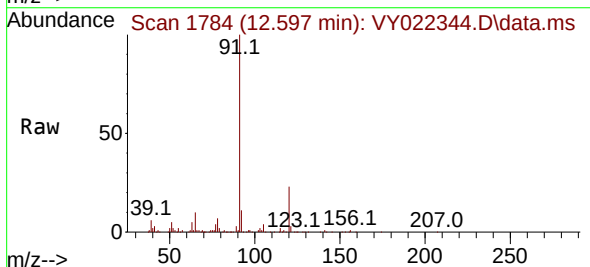
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

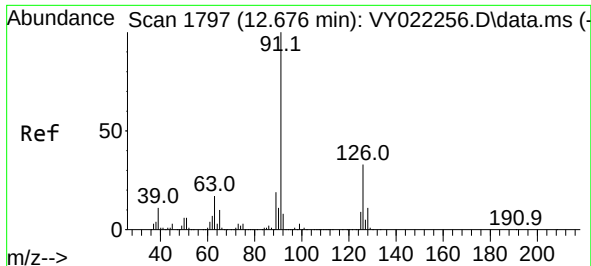
Tgt Ion: 75 Resp: 3223
Ion Ratio Lower Upper
75 100
77 959.3 0.0 0.0#



#78
n-propylbenzene
Concen: 6.566 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 91 Resp: 83294
Ion Ratio Lower Upper
91 100
120 21.8 11.1 33.3

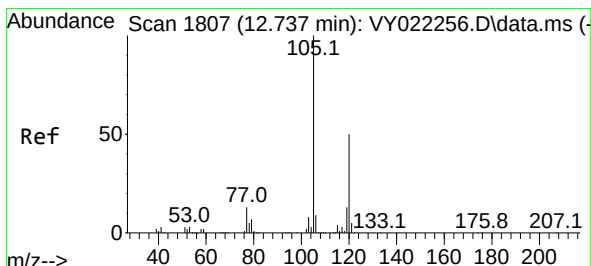
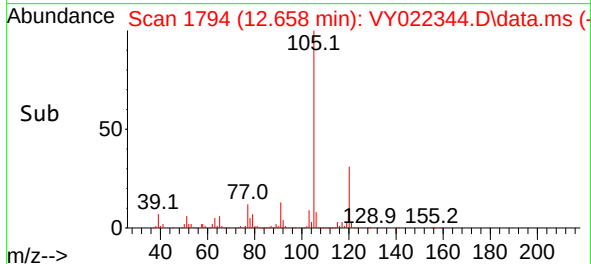
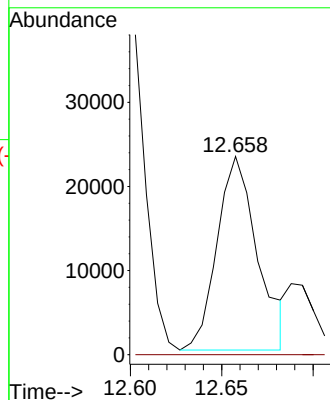
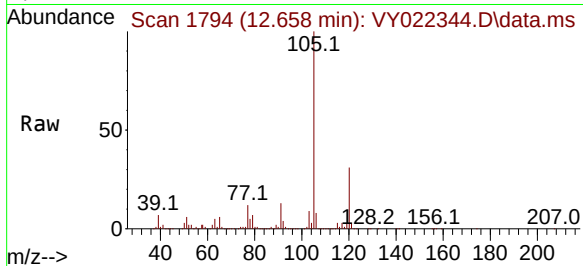




#79
2-Chlorotoluene
Concen: 5.085 ug/l
RT: 12.658 min Scan# 1794
Delta R.T. -0.018 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

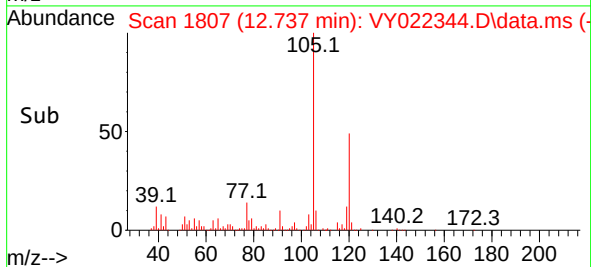
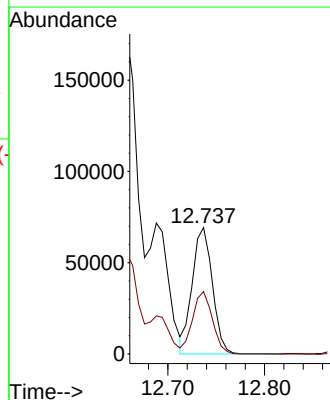
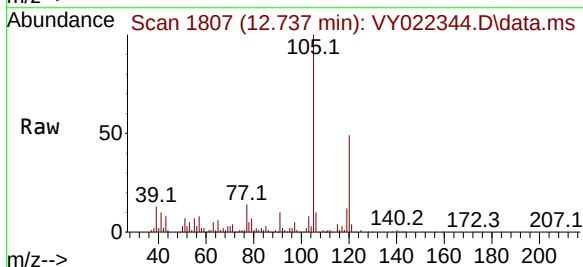
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

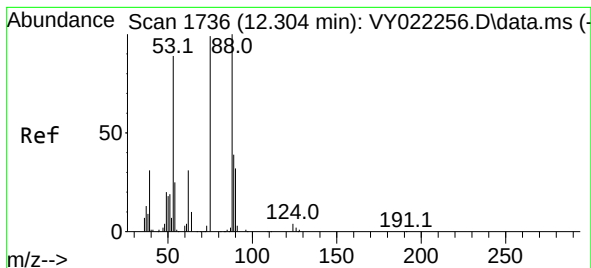
Tgt Ion: 91 Resp: 35448
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#



#80
1,3,5-Trimethylbenzene
Concen: 11.874 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 105 Resp: 100815
Ion Ratio Lower Upper
105 100
120 48.4 24.2 72.6

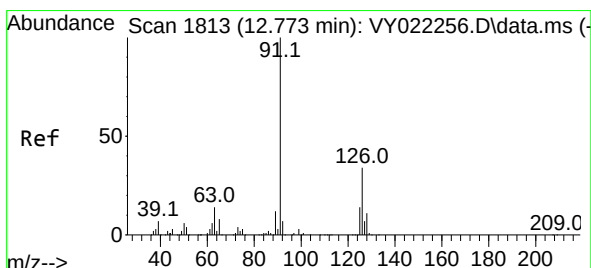
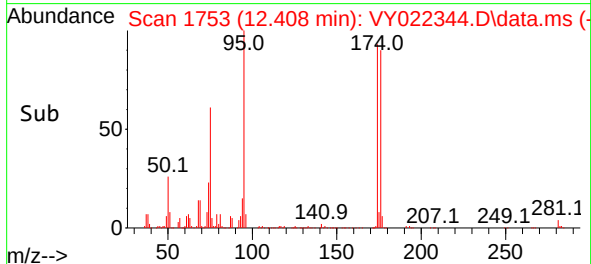
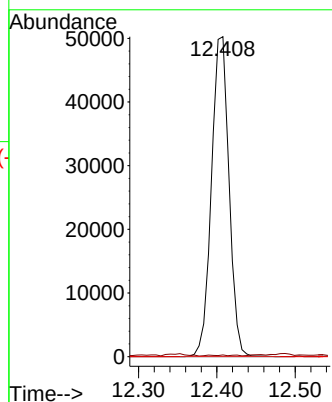
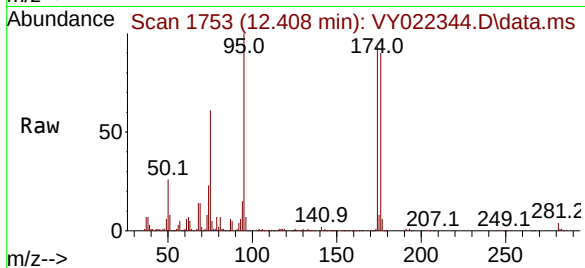




#81
trans-1,4-Dichloro-2-butene
Concen: 123.363 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

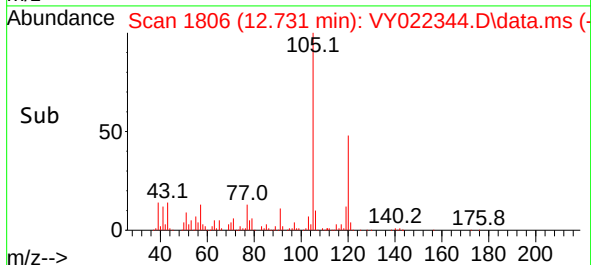
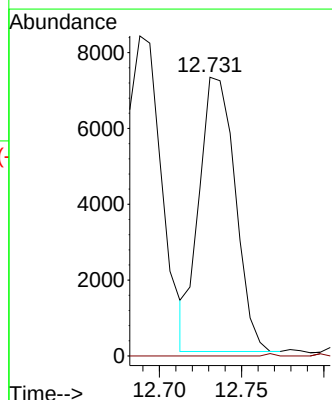
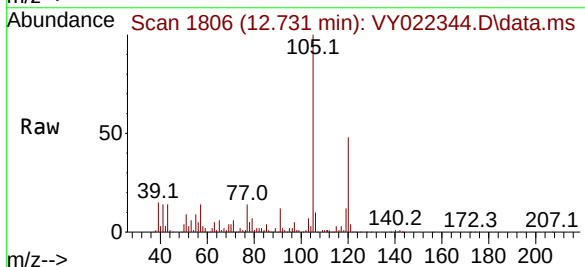
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

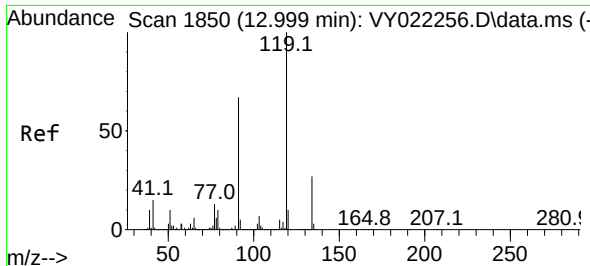
Tgt Ion: 75 Resp: 78325
Ion Ratio Lower Upper
75 100
53 0.2 75.8 113.8#
89 0.0 36.2 54.2#



#82
4-Chlorotoluene
Concen: 1.538 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.043 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 91 Resp: 11031
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#

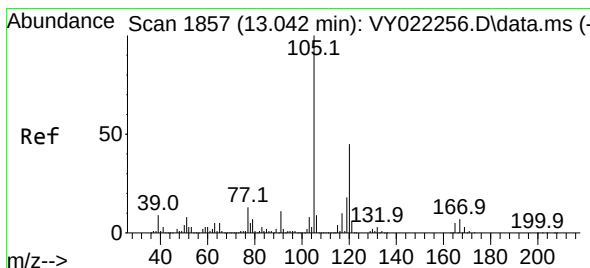
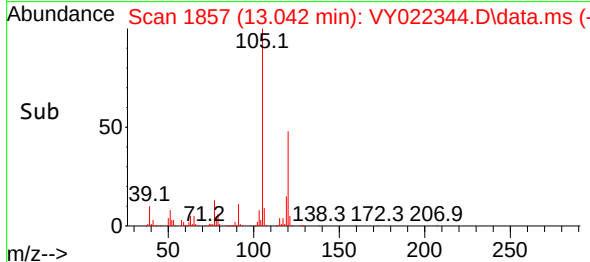
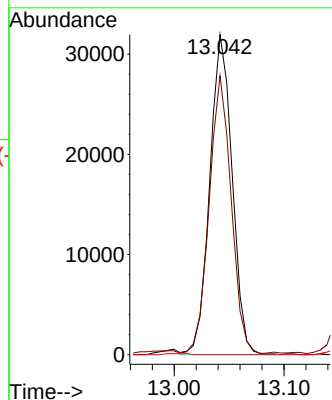
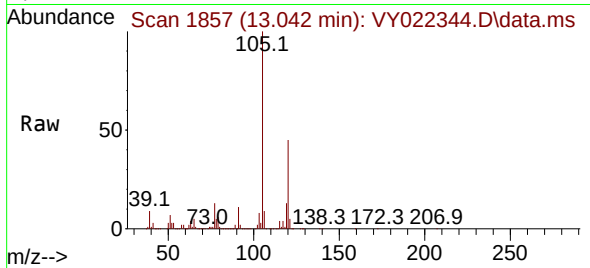




#83
tert-Butylbenzene
Concen: 6.004 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.043 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

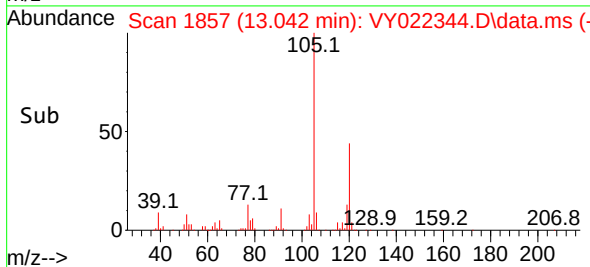
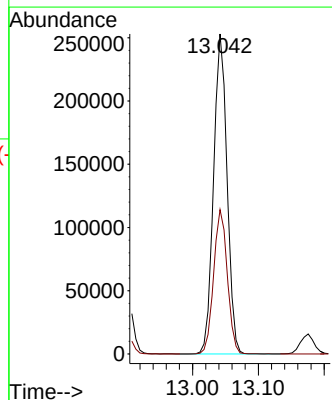
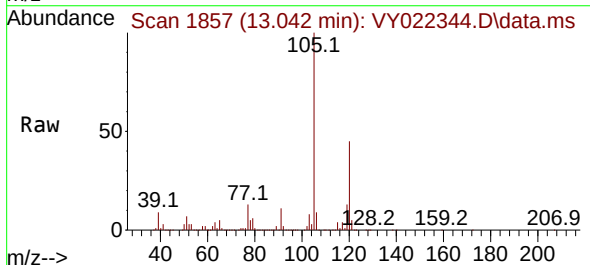
Instrument :
MSVOA_Y
ClientSampleId :
SS-910

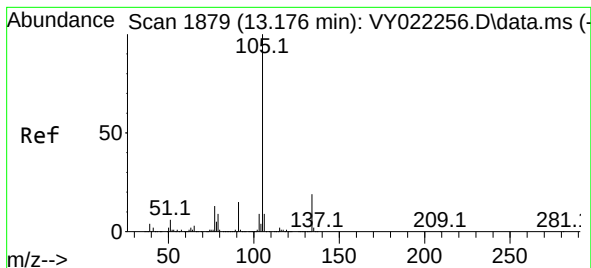
Tgt Ion:119 Resp: 45307
Ion Ratio Lower Upper
119 100
91 84.7 32.8 98.3
134 0.0 12.9 38.6#



#84
1,2,4-Trimethylbenzene
Concen: 42.901 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:105 Resp: 361565
Ion Ratio Lower Upper
105 100
120 45.7 22.3 66.9





#85

sec-Butylbenzene

Concen: 2.016 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

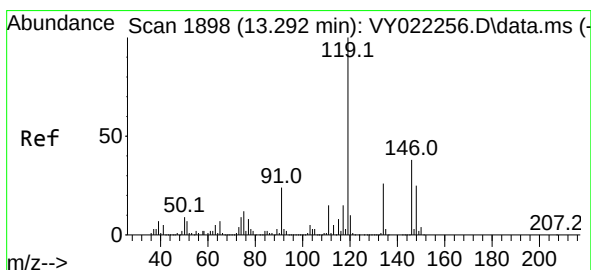
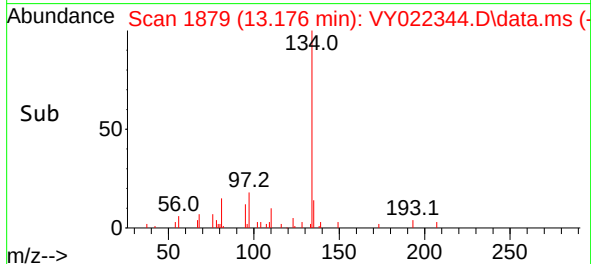
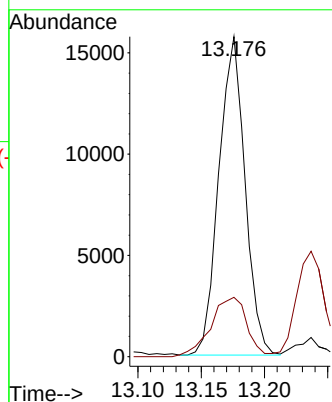
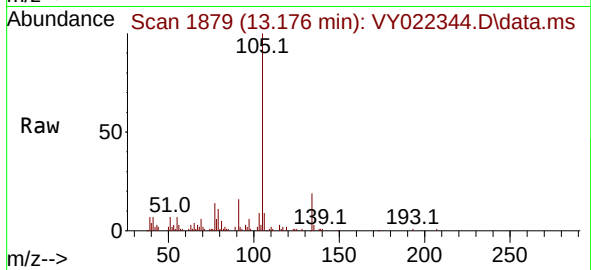
SS-910

Tgt Ion:105 Resp: 22583

Ion Ratio Lower Upper

105 100

134 25.5 9.8 29.5



#86

p-Isopropyltoluene

Concen: 1.290 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

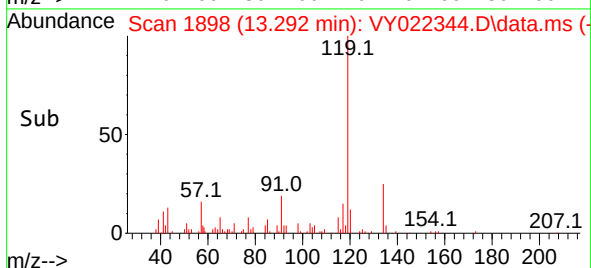
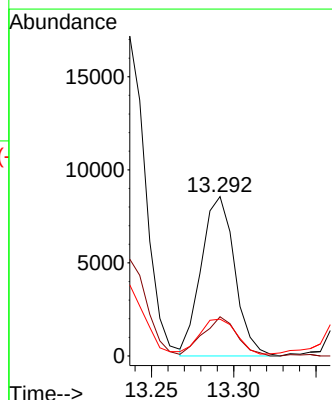
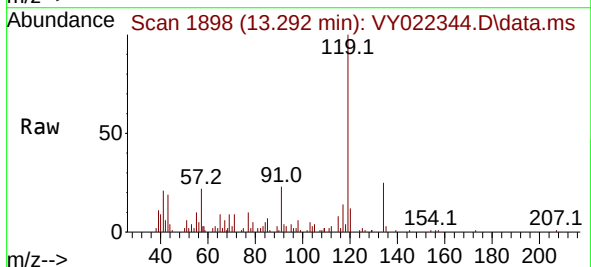
Tgt Ion:119 Resp: 12154

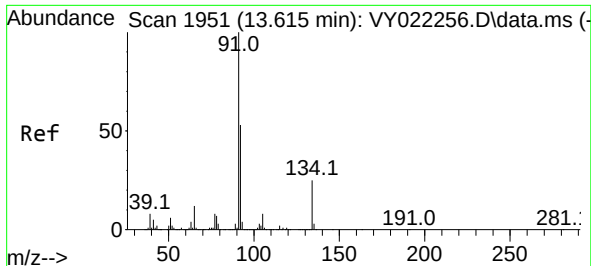
Ion Ratio Lower Upper

119 100

134 24.9 12.9 38.6

91 23.6 12.1 36.3





#89

n-Butylbenzene

Concen: 2.174 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

SS-910

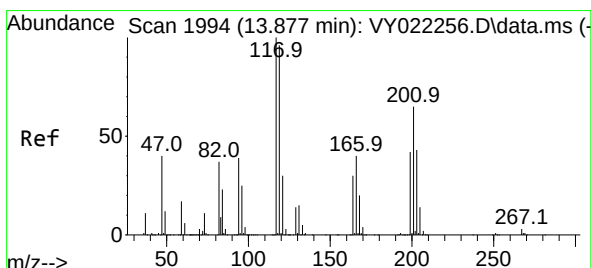
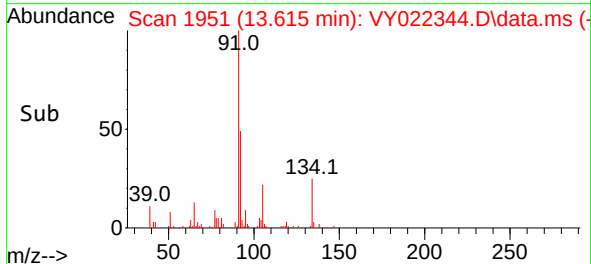
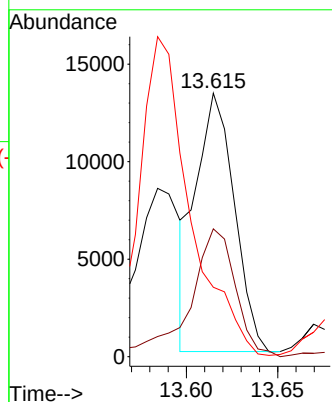
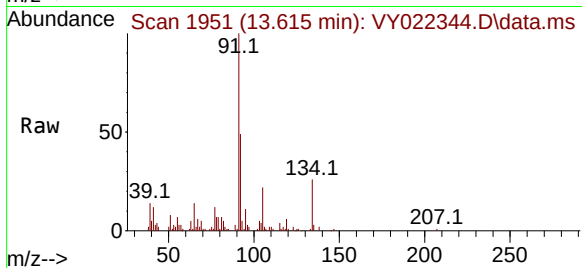
Tgt Ion: 91 Resp: 19377

Ion Ratio Lower Upper

91 100

92 57.3 26.3 78.9

134 0.0 12.4 37.4#



#90

Hexachloroethane

Concen: 3.097 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.012 min

Lab File: VY022344.D

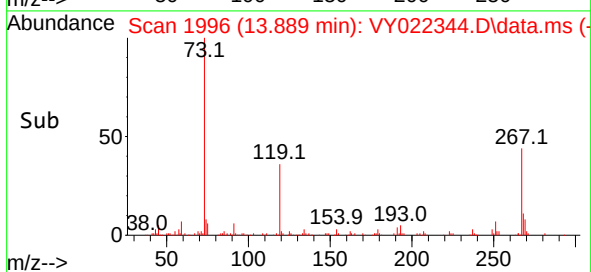
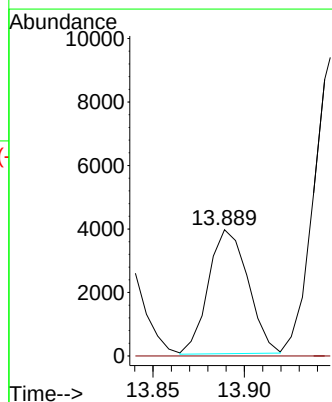
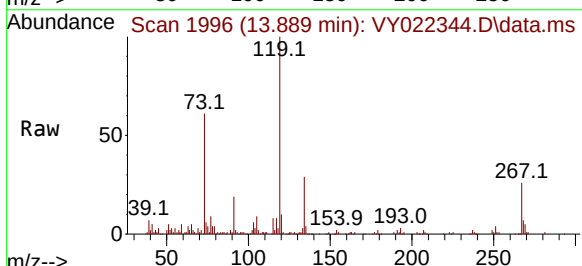
Acq: 20 May 2025 15:45

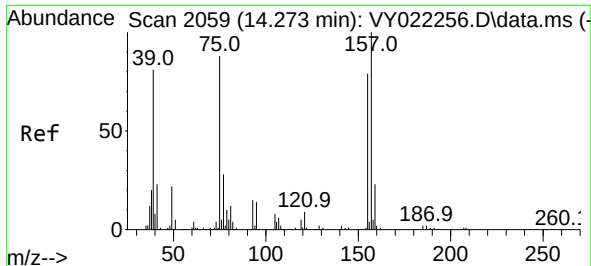
Tgt Ion: 117 Resp: 5889

Ion Ratio Lower Upper

117 100

201 0.0 35.2 105.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.798 ug/l

RT: 14.255 min Scan# 2056

Delta R.T. -0.018 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Instrument :

MSVOA_Y

ClientSampleId :

SS-910

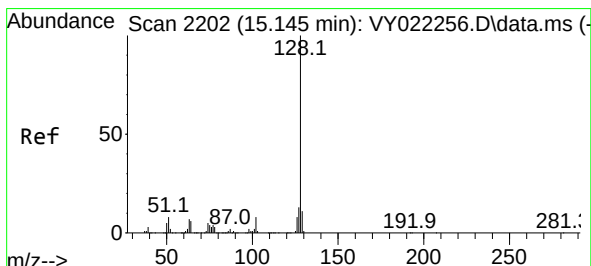
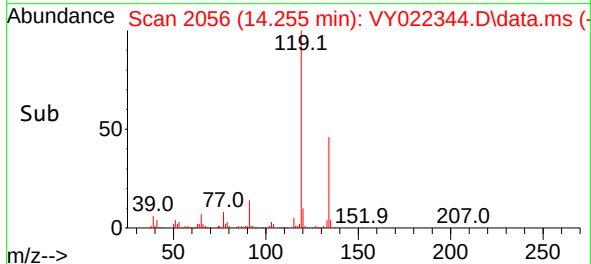
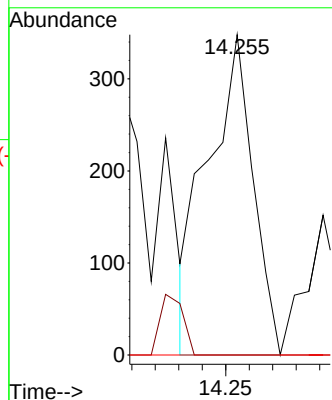
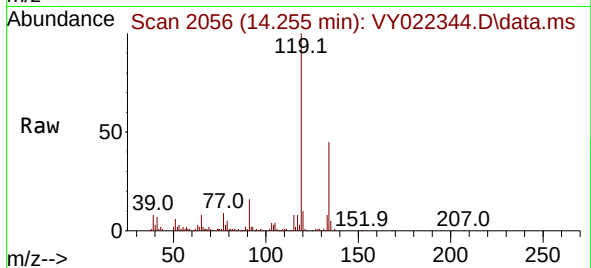
Tgt Ion: 75 Resp: 469

Ion Ratio Lower Upper

75 100

155 0.0 43.4 130.1#

157 0.0 54.6 163.9#



#95

Naphthalene

Concen: 3.054 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY022344.D

Acq: 20 May 2025 15:45

Tgt Ion:128 Resp: 12896

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.2

129 16.6 8.8 13.2#

