

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012225\
 Data File : VY020901.D
 Acq On : 22 Jan 2025 16:05
 Operator : SY/MD
 Sample : Q1154-01
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 23 00:46:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010625S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 00:38:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.725	168	280649	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.628	114	531588	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.426	117	371602	50.000	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	125144	50.000	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	146555	61.438	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	122.880%
35) Dibromofluoromethane	7.652	113	158212	47.506	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.020%
50) Toluene-d8	10.121	98	531271	45.761	ug/l	-0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.520%
62) 4-Bromofluorobenzene	12.420	95	140281	32.721	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	65.440%

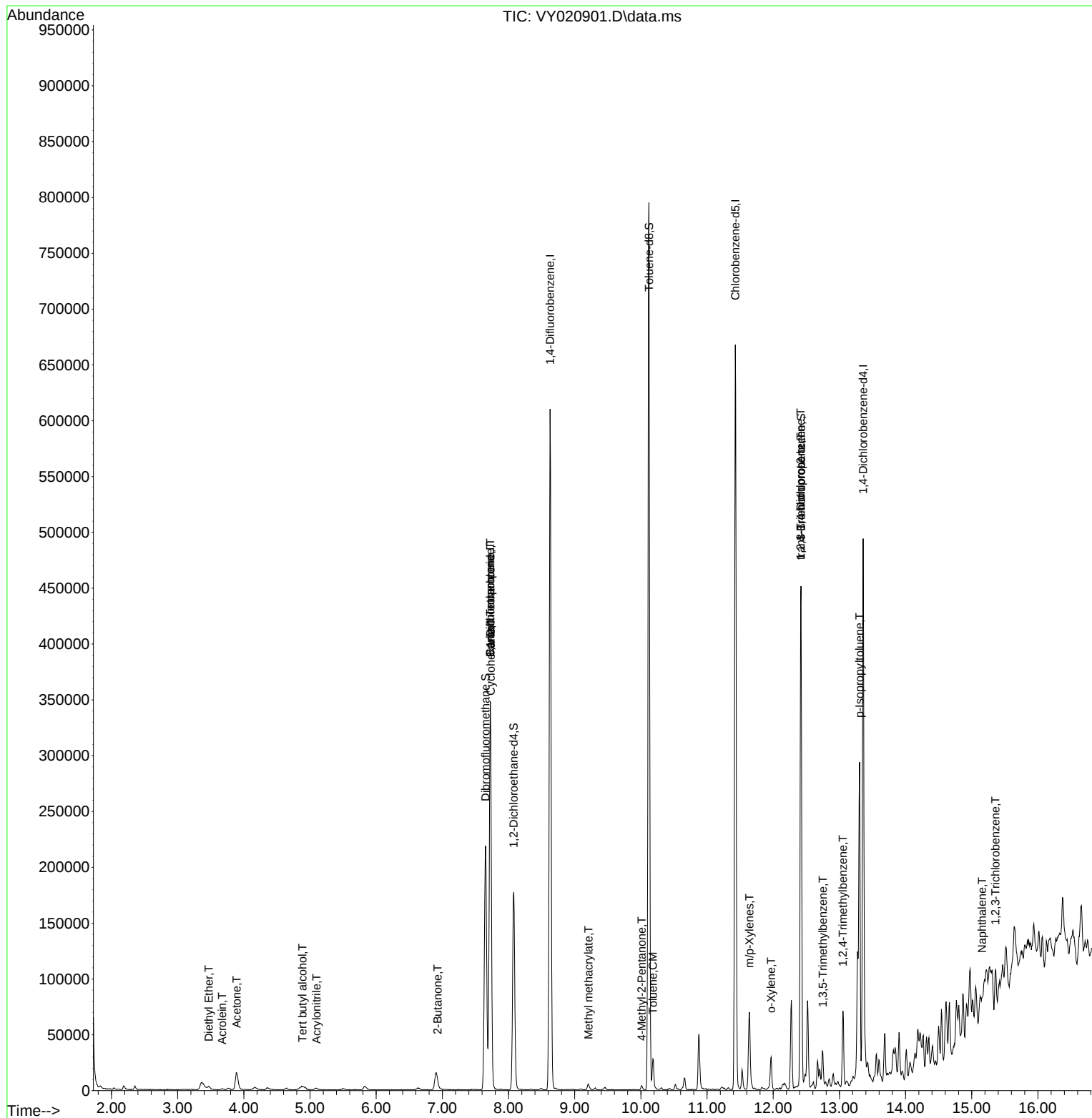
Target Compounds						Qvalue
8) Diethyl Ether	3.470	74	1465	1.266	ug/l #	8
11) Tert butyl alcohol	4.884	59	7592	42.120	ug/l #	89
13) Acrolein	3.671	56	1085	21.435	ug/l	92
15) Acrylonitrile	5.098	53	2074	4.217	ug/l	91
16) Acetone	3.891	43	29787	87.812	ug/l	97
25) 2-Butanone	6.927	43	3938	7.067	ug/l	96
31) Cyclohexane	7.732	56	4676	1.347	ug/l #	12
36) 1,1-Dichloropropene	7.725	75	19497	4.590	ug/l #	50
38) Carbon Tetrachloride	7.725	117	26895	4.548	ug/l #	16
48) Methyl methacrylate	9.207	41	1658	1.076	ug/l #	33
51) 4-Methyl-2-Pentanone	10.012	43	2600	1.514	ug/l	97
52) Toluene	10.182	92	11503	1.332	ug/l	97
68) m/p-Xylenes	11.639	106	21369	3.902	ug/l	97
69) o-Xylene	11.969	106	7119	1.371	ug/l	98
76) 1,2,3-Trichloropropane	12.414	75	70701	64.568	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.749	105	8533	1.061	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.414	75	70701	136.144	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.054	105	37340	4.753	ug/l	99
86) p-Isopropyltoluene	13.304	119	153912	17.165	ug/l	95
95) Naphthalene	15.157	128	17159	4.659	ug/l	98
96) 1,2,3-Trichlorobenzene	15.358	180	2149	1.146	ug/l #	12

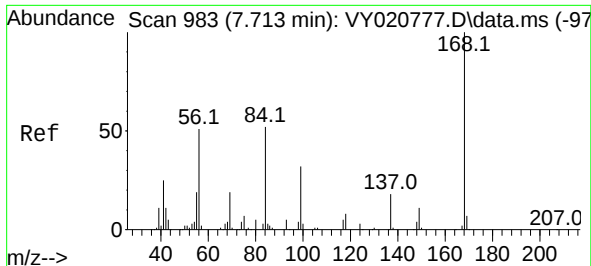
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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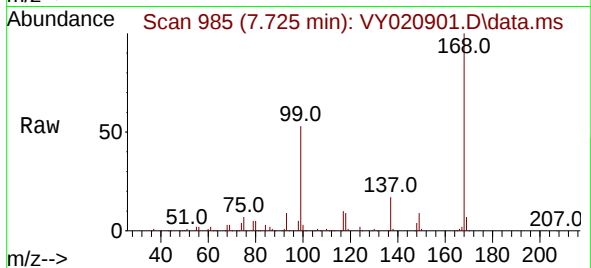
Quant Time: Jan 23 00:46:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010625S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 00:38:42 2025
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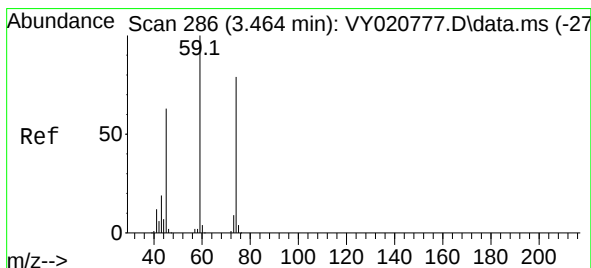
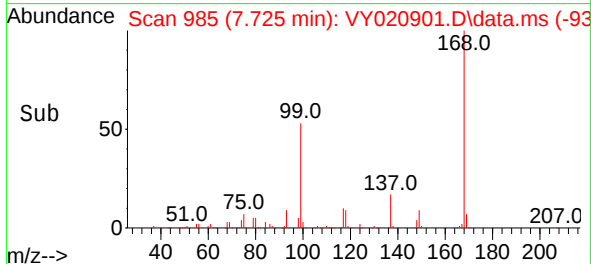
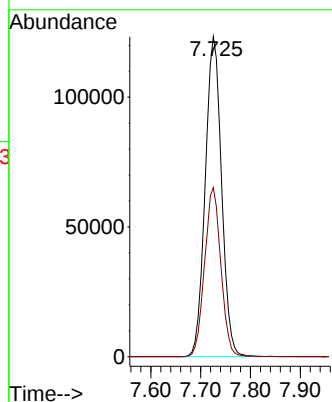


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.725 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

Instrument :
MSVOA_Y
ClientSampleId :

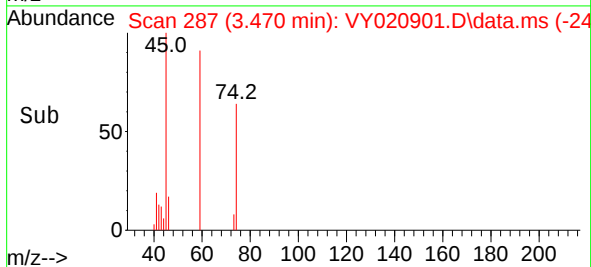
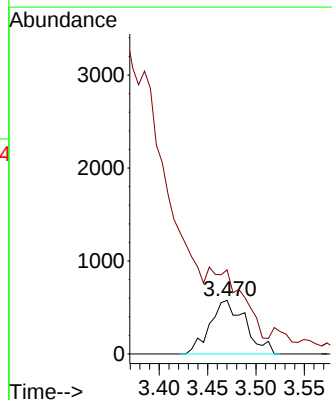
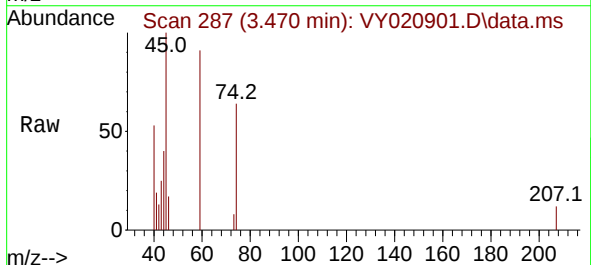


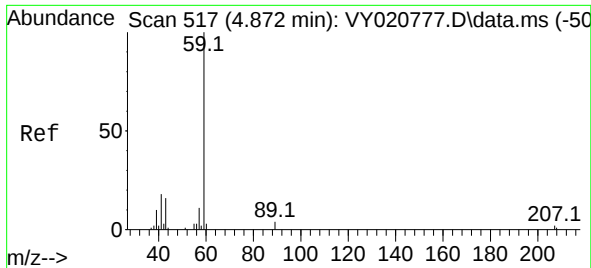
Tgt Ion:168 Resp: 280649
Ion Ratio Lower Upper
168 100
99 52.8 44.3 66.5



#8
Diethyl Ether
Concen: 1.266 ug/l
RT: 3.470 min Scan# 287
Delta R.T. -0.018 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

Tgt Ion: 74 Resp: 1465
Ion Ratio Lower Upper
74 100
45 0.0 41.3 124.1#





#11

Tert butyl alcohol

Concen: 42.120 ug/l

RT: 4.884 min Scan# 51

Delta R.T. -0.043 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

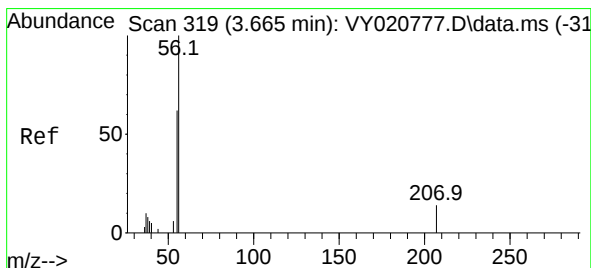
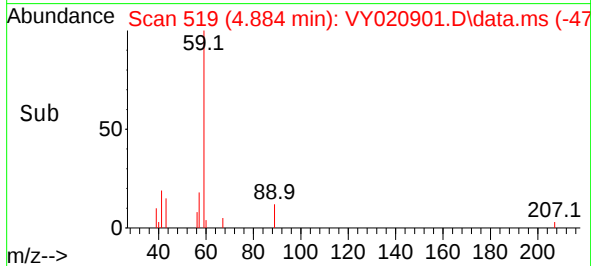
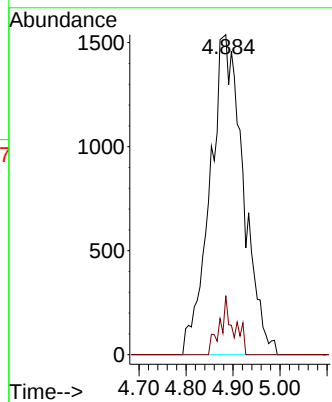
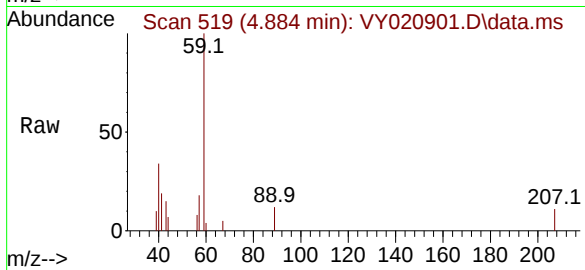
ClientSampleId :

Tgt Ion: 59 Resp: 7592

Ion Ratio Lower Upper

59 100

57 5.7 7.8 11.8#



#13

Acrolein

Concen: 21.435 ug/l

RT: 3.671 min Scan# 320

Delta R.T. -0.018 min

Lab File: VY020901.D

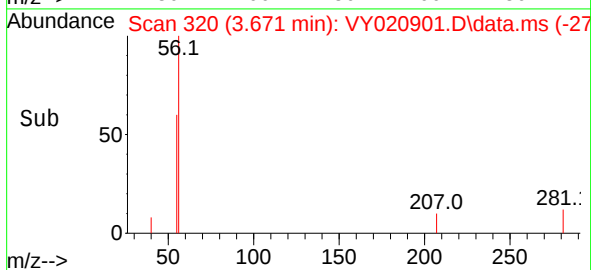
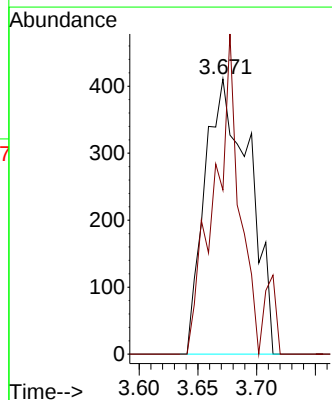
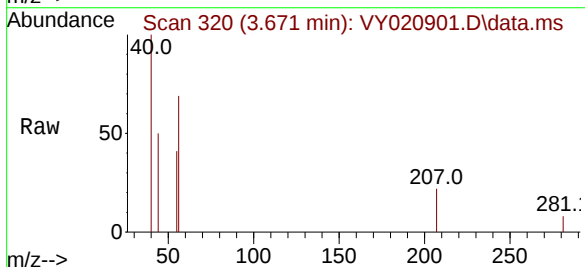
Acq: 22 Jan 2025 16:05

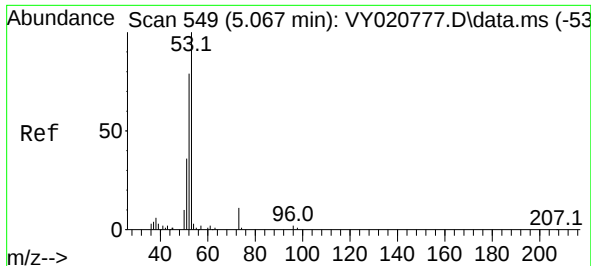
Tgt Ion: 56 Resp: 1085

Ion Ratio Lower Upper

56 100

55 65.9 58.1 87.1





#15

Acrylonitrile

Concen: 4.217 ug/l

RT: 5.098 min Scan# 51

Delta R.T. -0.006 min

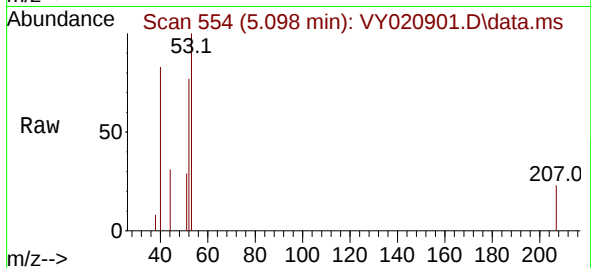
Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

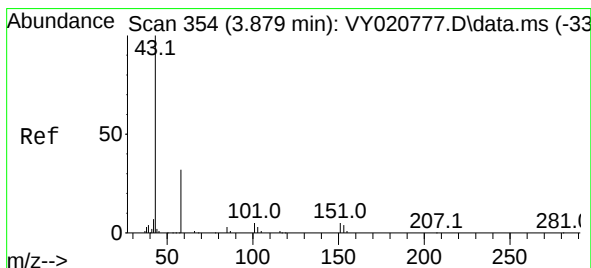
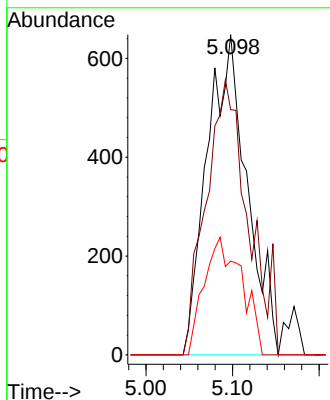
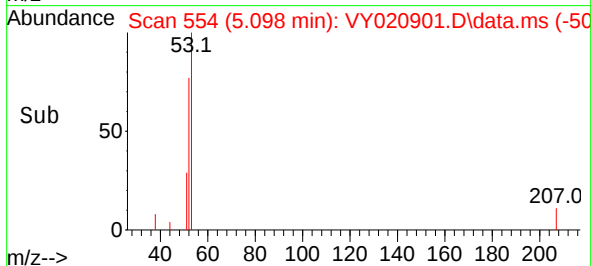
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	53	Resp:	2074
Ion	Ratio	Lower	Upper
53	100		
52	90.5	64.3	96.5
51	34.8	29.3	43.9



#16

Acetone

Concen: 87.812 ug/l

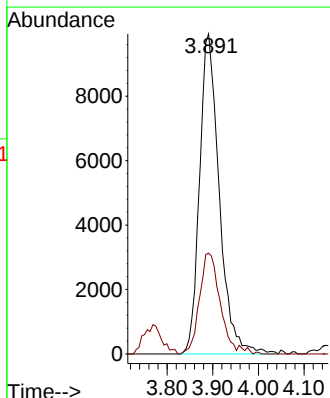
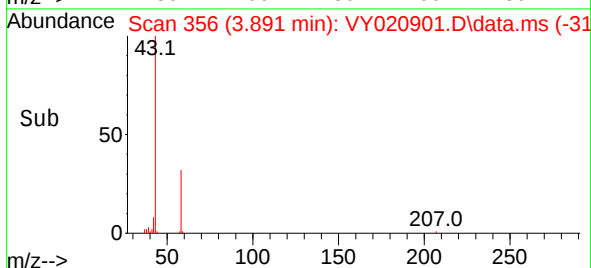
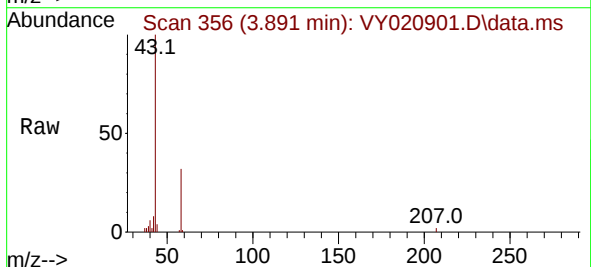
RT: 3.891 min Scan# 356

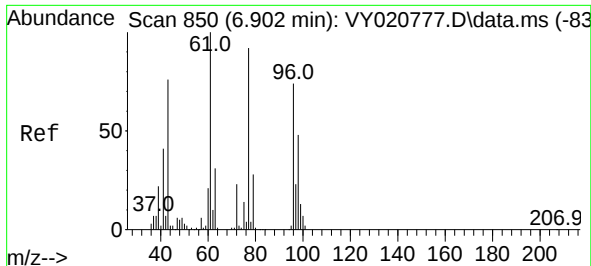
Delta R.T. -0.024 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Tgt Ion:	43	Resp:	29787
Ion	Ratio	Lower	Upper
43	100		
58	31.5	26.7	40.1





#25

2-Butanone

Concen: 7.067 ug/l

RT: 6.927 min Scan# 854

Delta R.T. -0.006 min

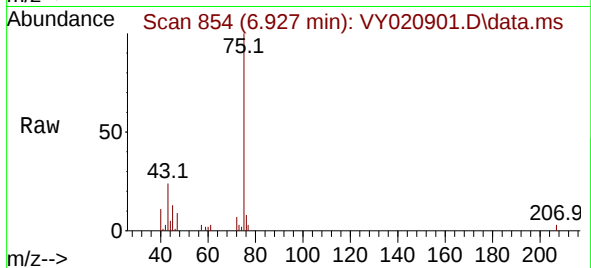
Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

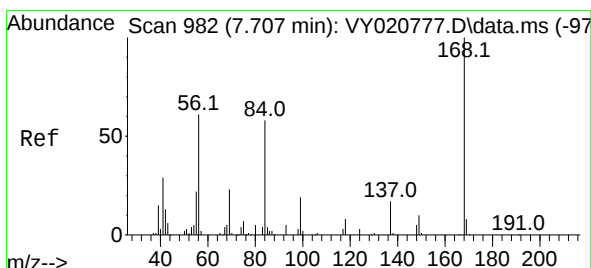
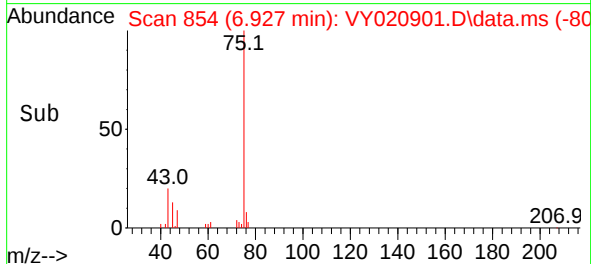
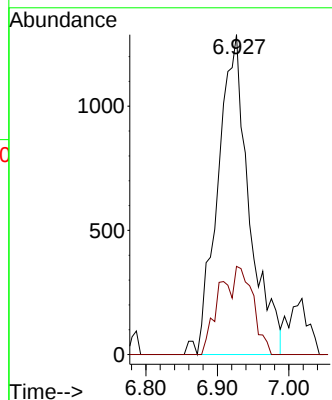


Tgt Ion: 43 Resp: 3938

Ion Ratio Lower Upper

43 100

72 27.6 24.0 36.0



#31

Cyclohexane

Concen: 1.347 ug/l

RT: 7.732 min Scan# 986

Delta R.T. -0.006 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

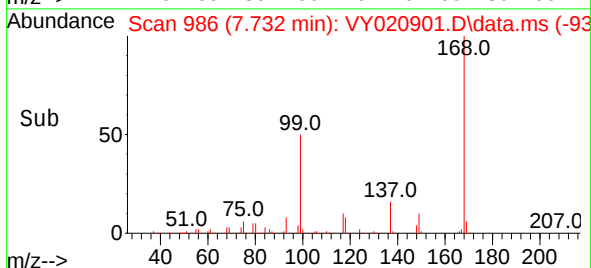
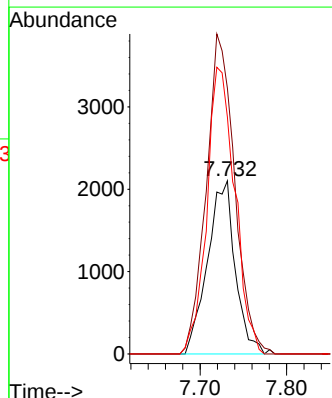
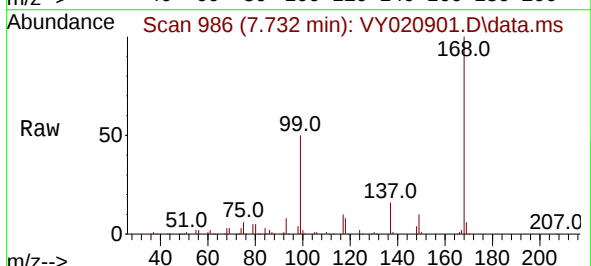
Tgt Ion: 56 Resp: 4676

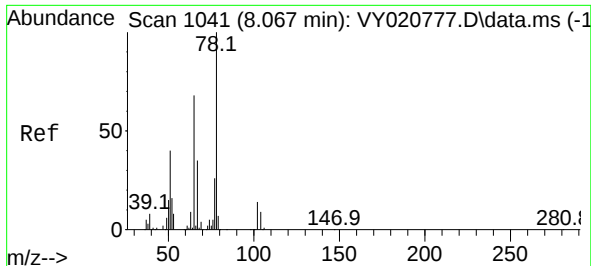
Ion Ratio Lower Upper

56 100

69 153.5 30.5 45.7#

84 141.1 76.6 115.0#

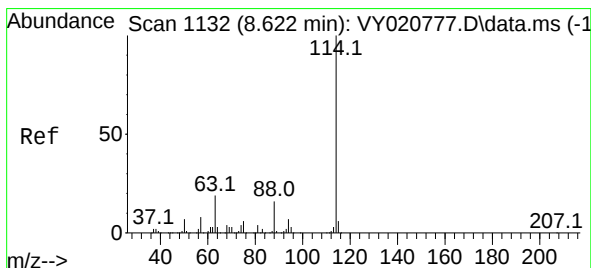
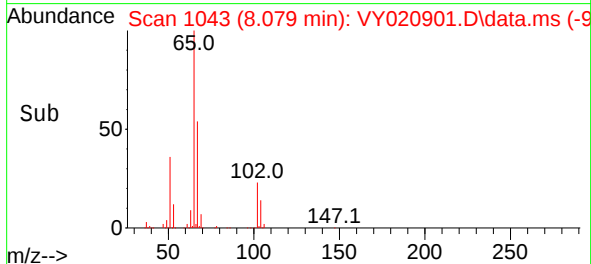
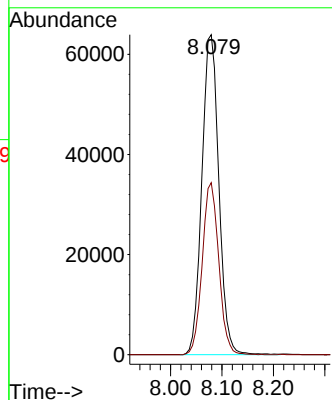
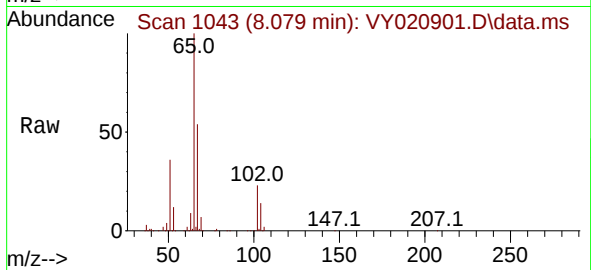




#33
1,2-Dichloroethane-d4
Concen: 61.438 ug/l
RT: 8.079 min Scan# 1104
Delta R.T. -0.012 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

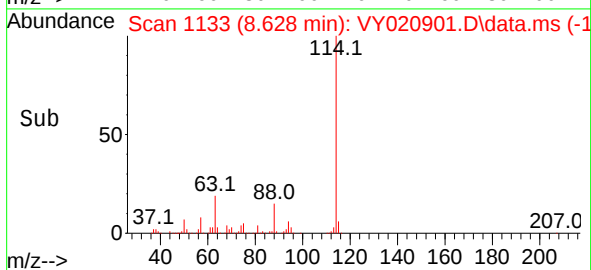
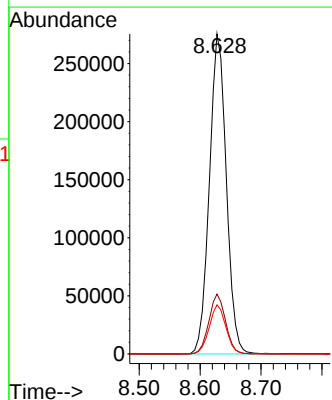
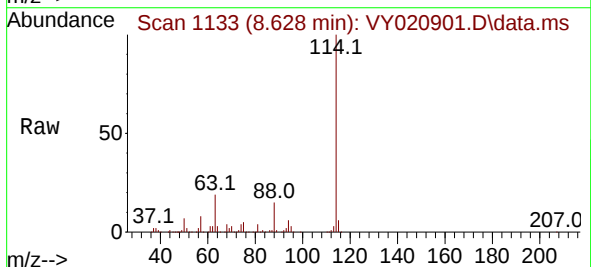
Instrument :
MSVOA_Y
ClientSampleId :

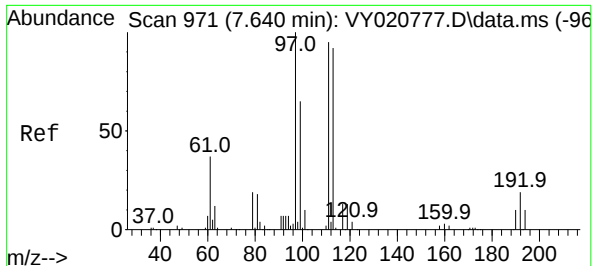
Tgt Ion: 65 Resp: 146555
Ion Ratio Lower Upper
65 100
67 52.3 0.0 102.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1133
Delta R.T. -0.012 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

Tgt Ion:114 Resp: 531588
Ion Ratio Lower Upper
114 100
63 18.7 0.0 38.4
88 15.3 0.0 31.2





#35

Dibromofluoromethane

Concen: 47.506 ug/l

RT: 7.652 min Scan# 91

Delta R.T. -0.012 min

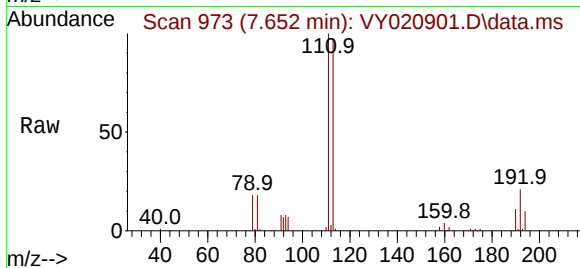
Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :



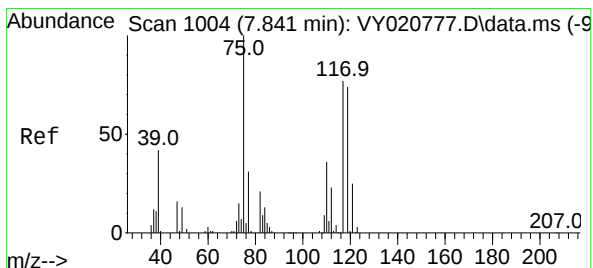
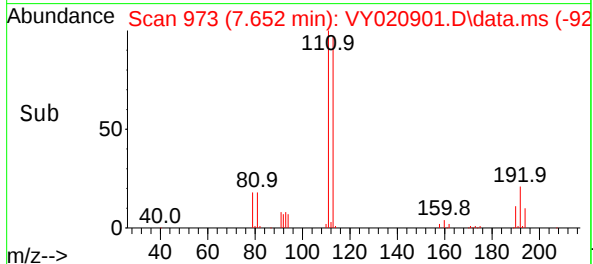
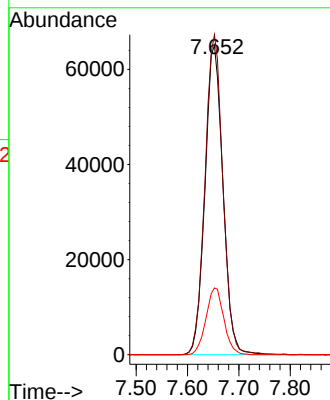
Tgt Ion:113 Resp: 158212

Ion Ratio Lower Upper

113 100

111 102.7 81.7 122.5

192 21.4 16.7 25.1



#36

1,1-Dichloropropene

Concen: 4.590 ug/l

RT: 7.725 min Scan# 985

Delta R.T. -0.140 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

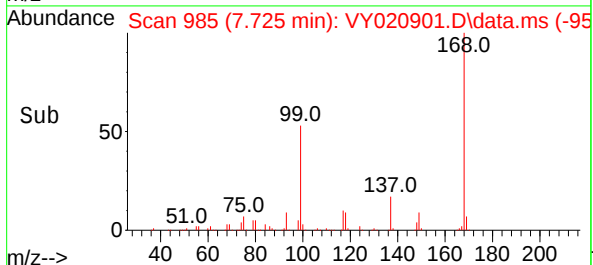
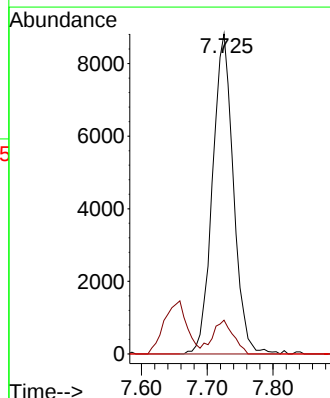
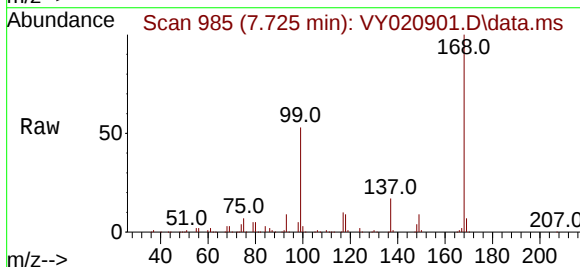
Tgt Ion: 75 Resp: 19497

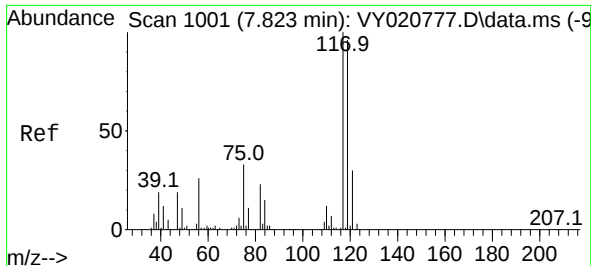
Ion Ratio Lower Upper

75 100

110 10.5 18.5 55.5#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.548 ug/l

RT: 7.725 min Scan# 91

Delta R.T. -0.122 min

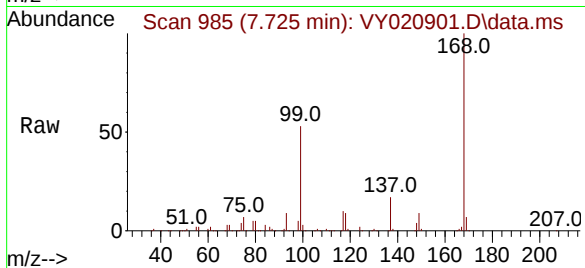
Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

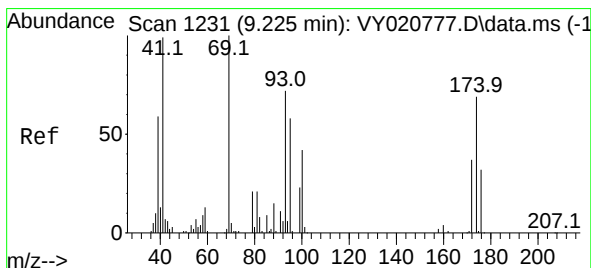
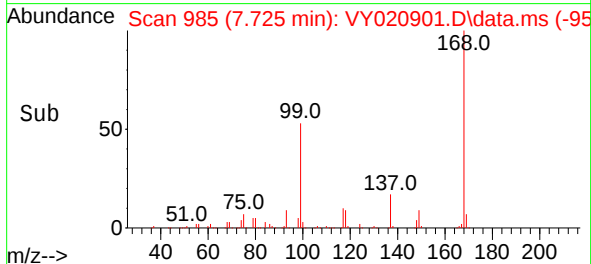
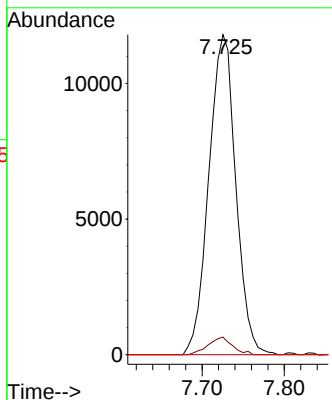
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	117	Resp:	26895
Ion	Ratio	Lower	Upper
117	100		
119	5.5	76.5	114.7#
121	0.0	24.3	36.5#



#48

Methyl methacrylate

Concen: 1.076 ug/l

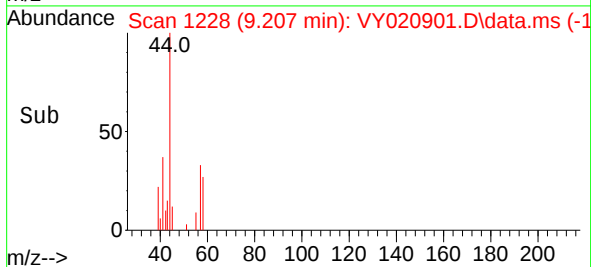
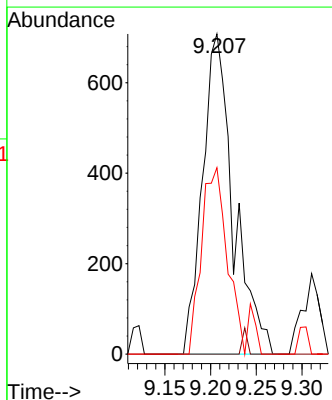
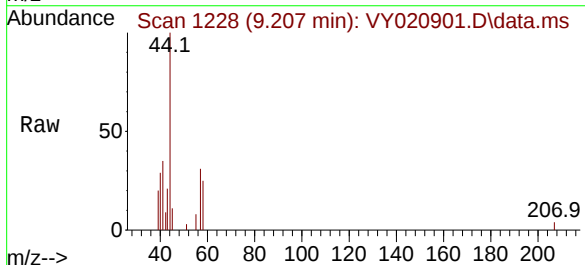
RT: 9.207 min Scan# 1228

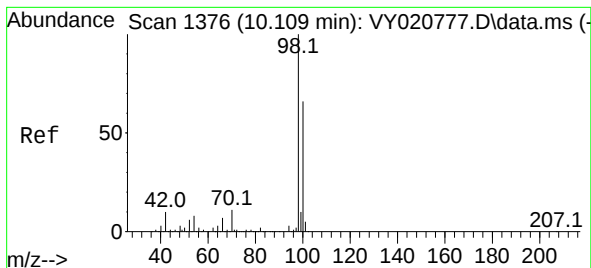
Delta R.T. -0.036 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Tgt Ion:	41	Resp:	1658
Ion	Ratio	Lower	Upper
41	100		
69	0.0	78.9	118.3#
39	48.6	44.6	67.0





#50

Toluene-d8

Concen: 45.761 ug/l

RT: 10.121 min Scan# 1376

Delta R.T. -0.012 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

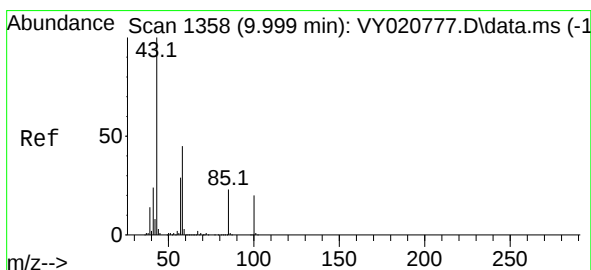
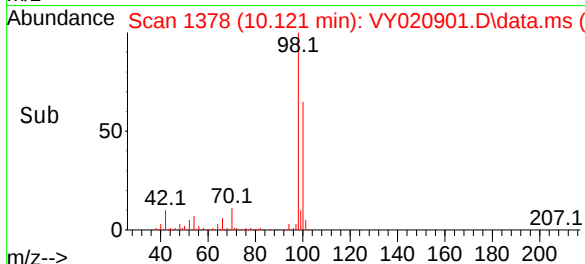
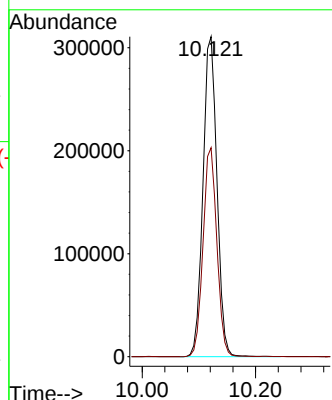
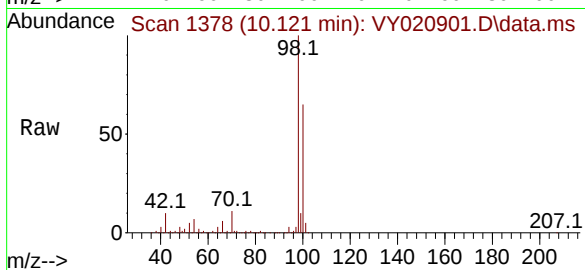
ClientSampleId :

Tgt Ion: 98 Resp: 531271

Ion Ratio Lower Upper

98 100

100 64.7 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 1.514 ug/l

RT: 10.012 min Scan# 1360

Delta R.T. -0.006 min

Lab File: VY020901.D

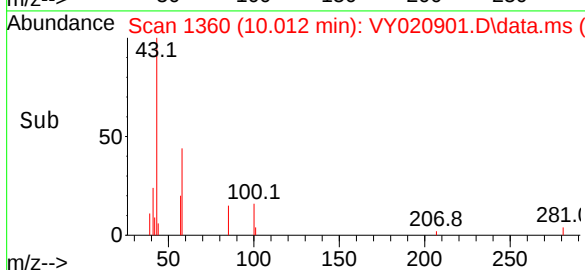
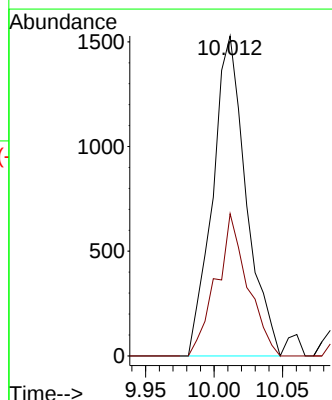
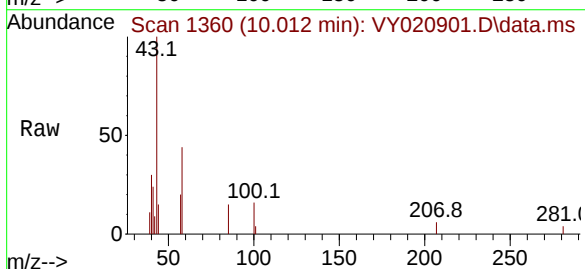
Acq: 22 Jan 2025 16:05

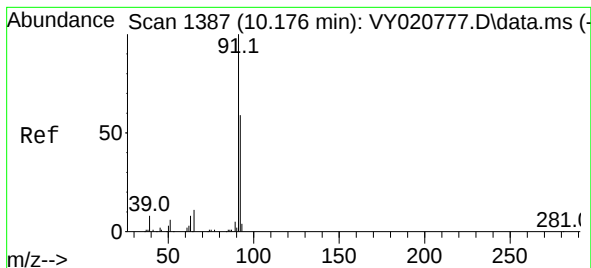
Tgt Ion: 43 Resp: 2600

Ion Ratio Lower Upper

43 100

58 41.6 34.8 52.2





#52

Toluene

Concen: 1.332 ug/l

RT: 10.182 min Scan# 1388

Delta R.T. -0.012 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

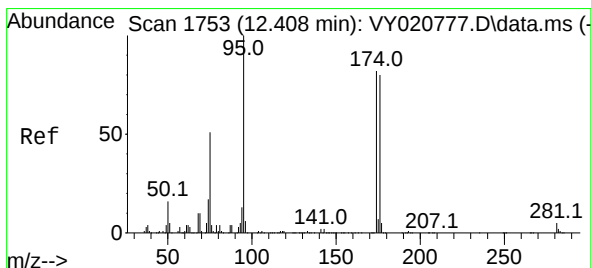
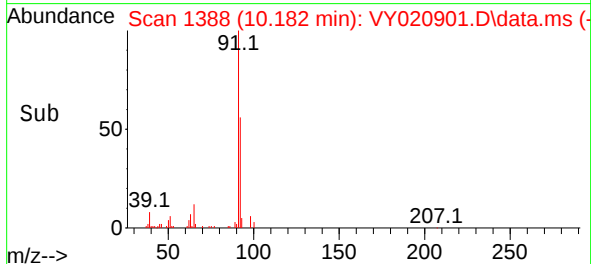
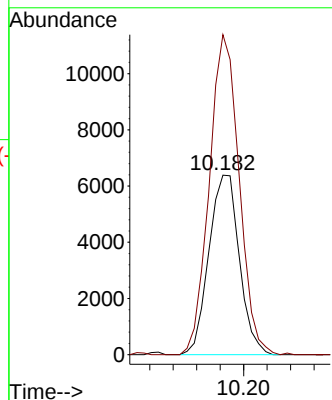
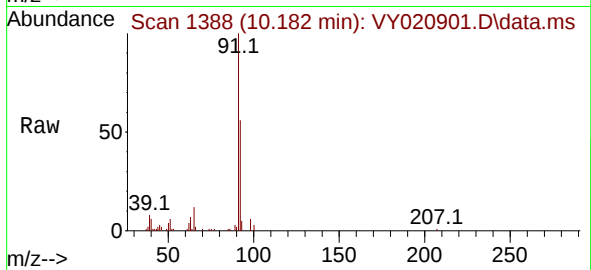
ClientSampleId :

Tgt Ion: 92 Resp: 11503

Ion Ratio Lower Upper

92 100

91 174.8 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 32.721 ug/l

RT: 12.420 min Scan# 1755

Delta R.T. -0.006 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

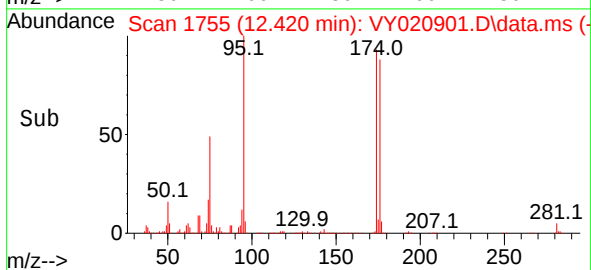
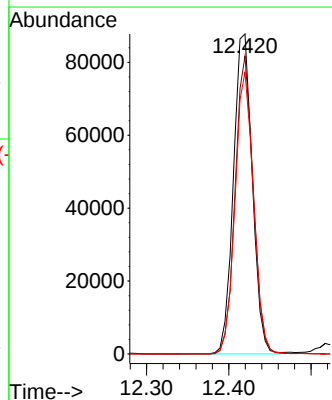
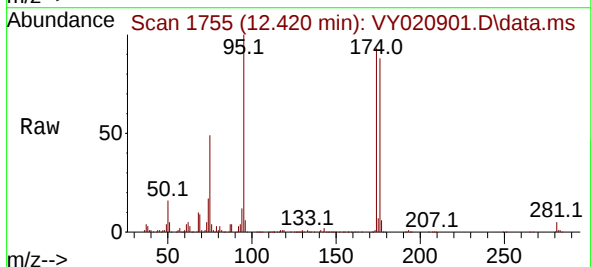
Tgt Ion: 95 Resp: 140281

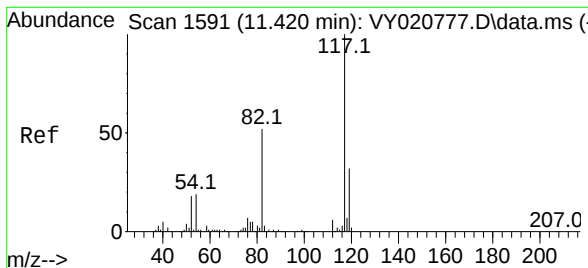
Ion Ratio Lower Upper

95 100

174 89.3 0.0 178.0

176 86.2 0.0 172.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.426 min Scan# 1591

Delta R.T. -0.012 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

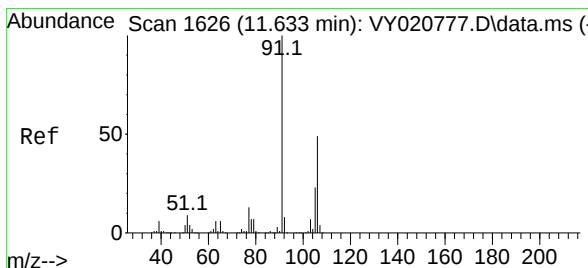
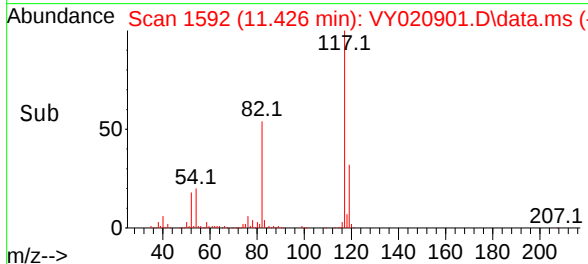
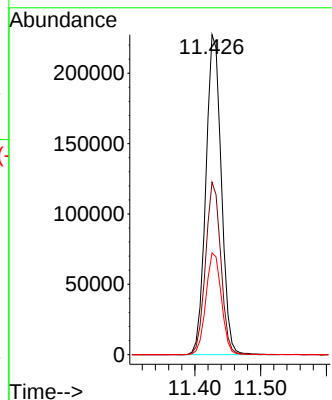
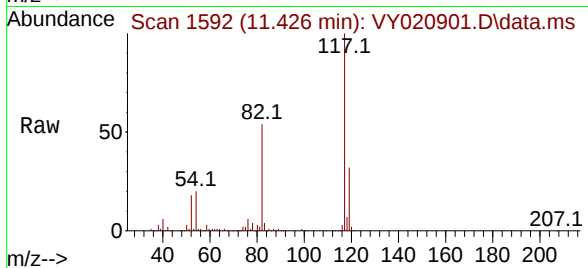
Tgt Ion:117 Resp: 371602

Ion Ratio Lower Upper

117 100

82 53.9 41.8 62.6

119 31.8 25.8 38.8



#68

m/p-Xylenes

Concen: 3.902 ug/l

RT: 11.639 min Scan# 1627

Delta R.T. -0.012 min

Lab File: VY020901.D

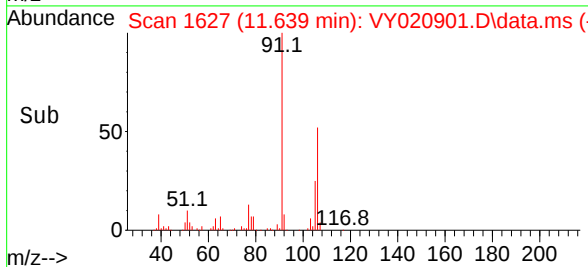
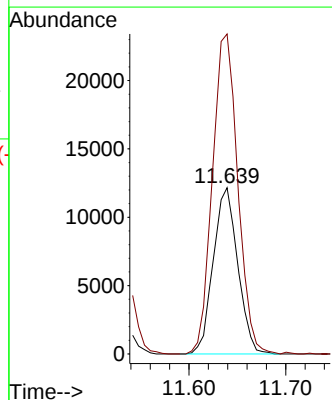
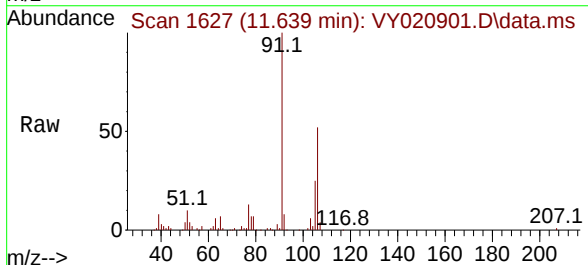
Acq: 22 Jan 2025 16:05

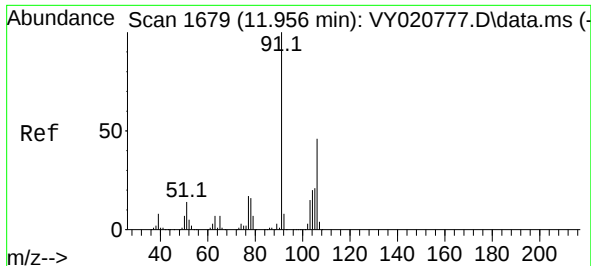
Tgt Ion:106 Resp: 21369

Ion Ratio Lower Upper

106 100

91 199.1 162.6 243.8





#69

o-Xylene

Concen: 1.371 ug/l

RT: 11.969 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

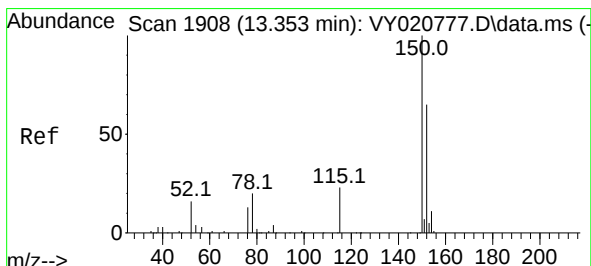
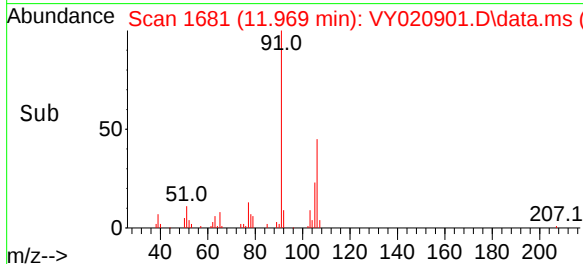
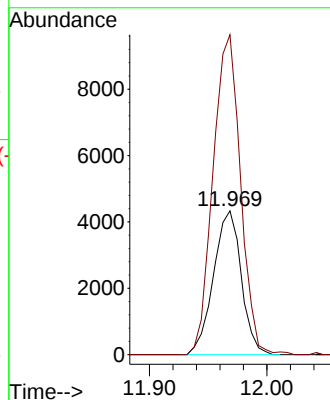
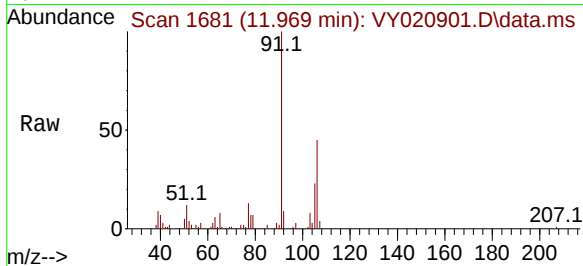
ClientSampleId :

Tgt Ion:106 Resp: 7119

Ion Ratio Lower Upper

106 100

91 220.2 108.2 324.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.359 min Scan# 1909

Delta R.T. -0.012 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

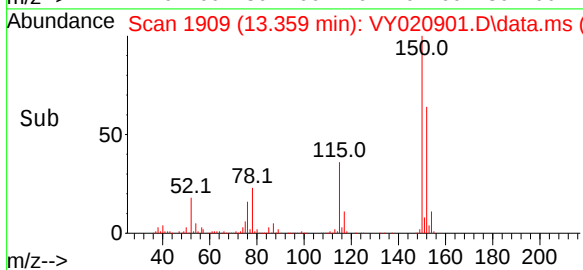
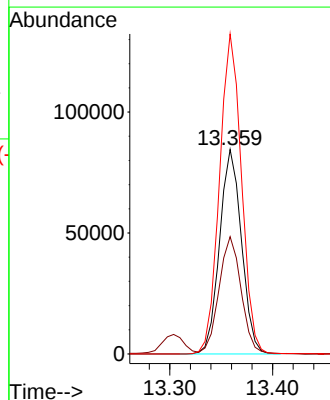
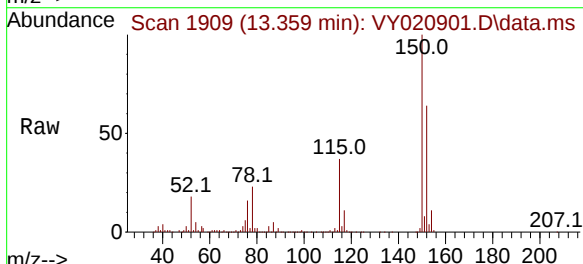
Tgt Ion:152 Resp: 125144

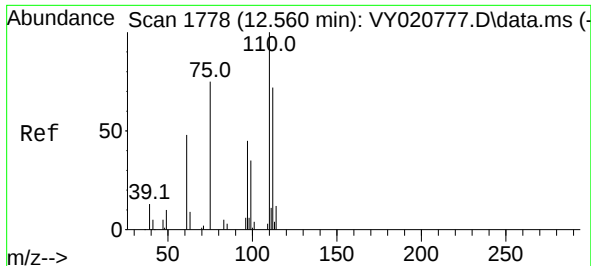
Ion Ratio Lower Upper

152 100

115 58.0 29.0 87.0

150 156.8 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 64.568 ug/l

RT: 12.414 min Scan# 11

Delta R.T. -0.164 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

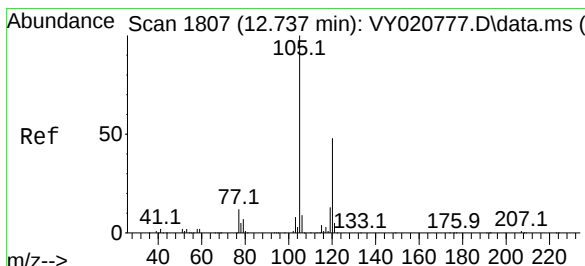
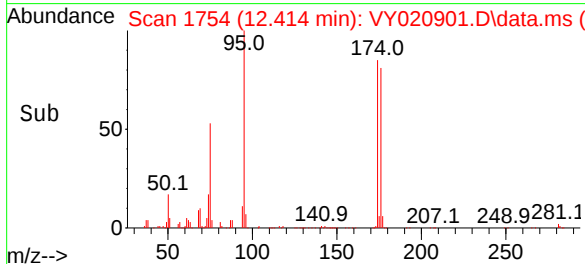
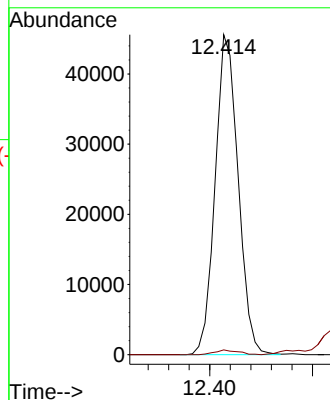
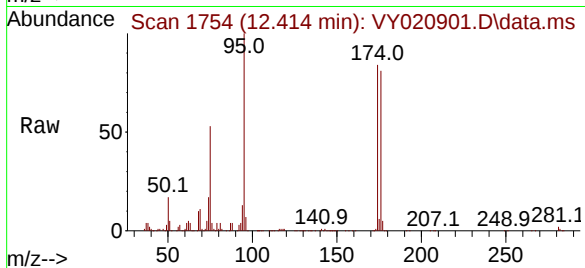
ClientSampleId :

Tgt Ion: 75 Resp: 70701

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.061 ug/l

RT: 12.749 min Scan# 1809

Delta R.T. -0.006 min

Lab File: VY020901.D

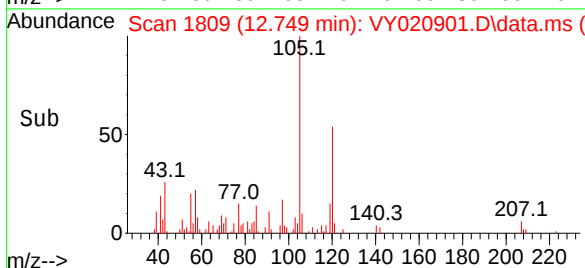
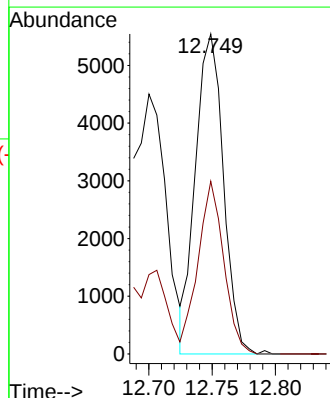
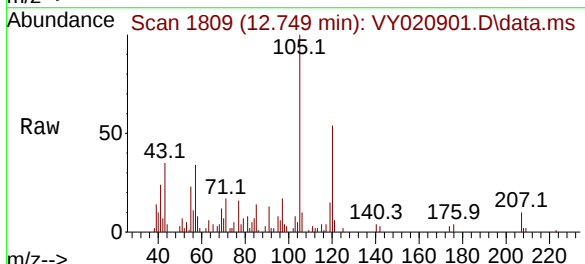
Acq: 22 Jan 2025 16:05

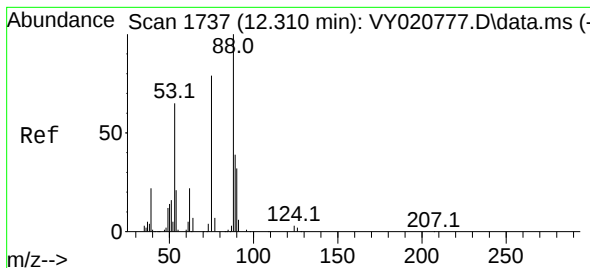
Tgt Ion:105 Resp: 8533

Ion Ratio Lower Upper

105 100

120 49.7 24.5 73.5

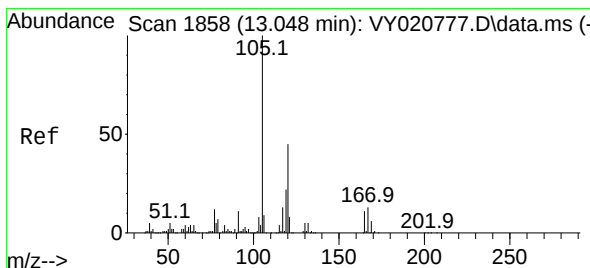
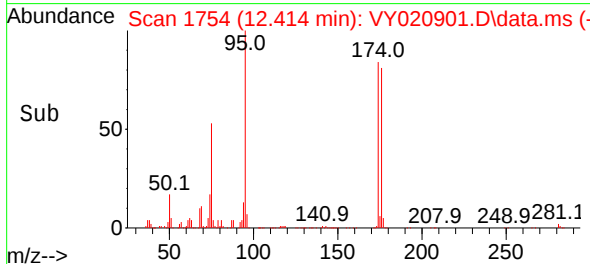
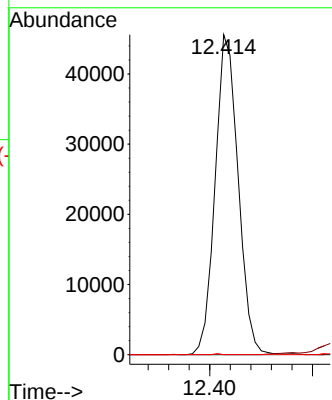
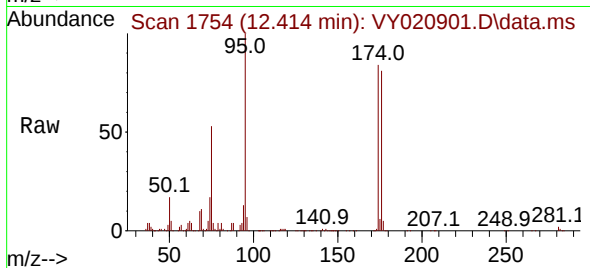




#81
trans-1,4-Dichloro-2-butene
Concen: 136.144 ug/l
RT: 12.414 min Scan# 1737
Delta R.T. 0.086 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

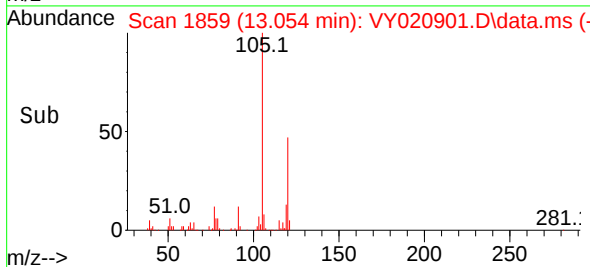
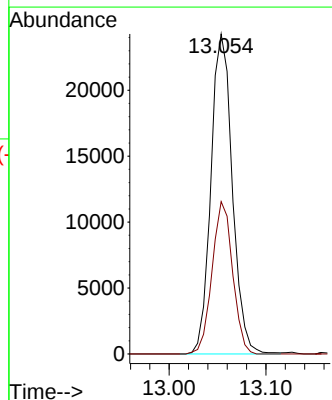
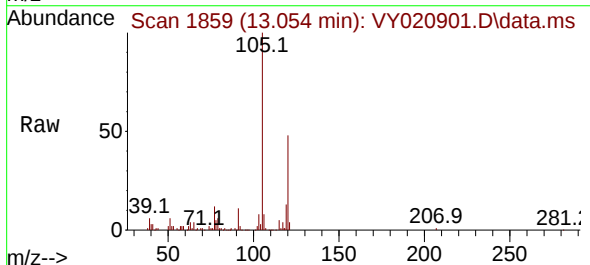
Instrument :
MSVOA_Y
ClientSampleId :

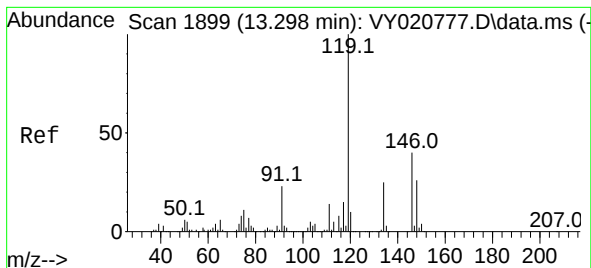
Tgt Ion: 75 Resp: 70701
Ion Ratio Lower Upper
75 100
53 0.0 69.4 104.0#
89 0.1 39.6 59.4#



#84
1,2,4-Trimethylbenzene
Concen: 4.753 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. -0.012 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

Tgt Ion:105 Resp: 37340
Ion Ratio Lower Upper
105 100
120 45.5 22.4 67.2





#86

p-Isopropyltoluene

Concen: 17.165 ug/l

RT: 13.304 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

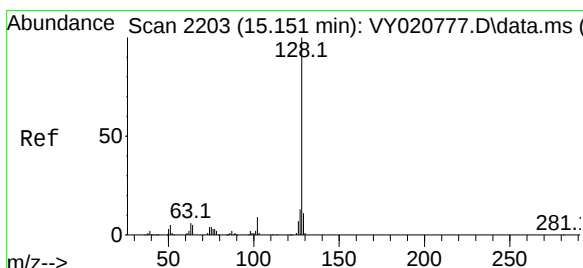
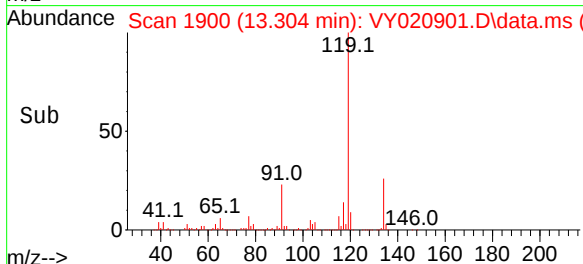
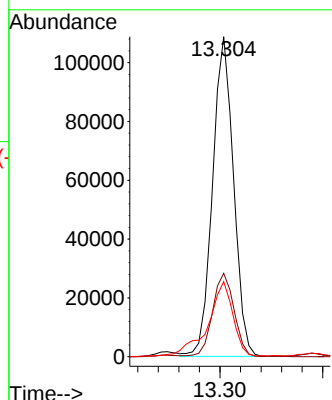
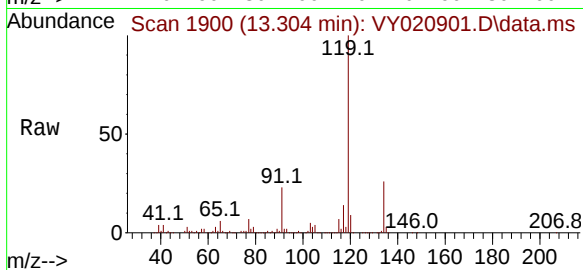
Tgt Ion:119 Resp: 153912

Ion Ratio Lower Upper

119 100

134 26.5 13.0 38.9

91 28.4 11.8 35.3



#95

Naphthalene

Concen: 4.659 ug/l

RT: 15.157 min Scan# 2204

Delta R.T. -0.012 min

Lab File: VY020901.D

Acq: 22 Jan 2025 16:05

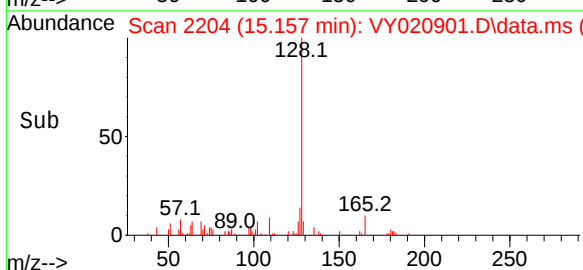
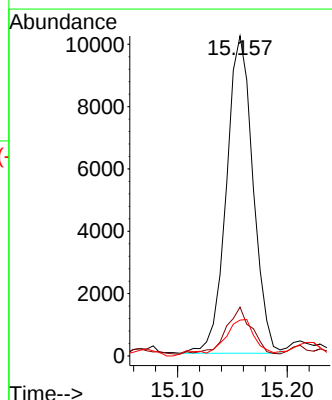
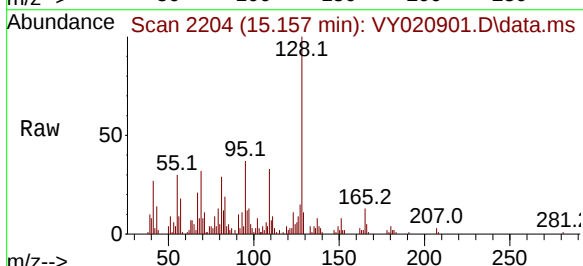
Tgt Ion:128 Resp: 17159

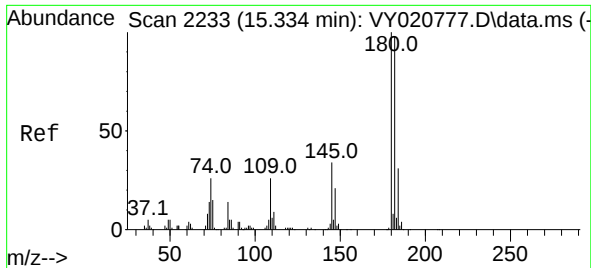
Ion Ratio Lower Upper

128 100

127 14.4 10.5 15.7

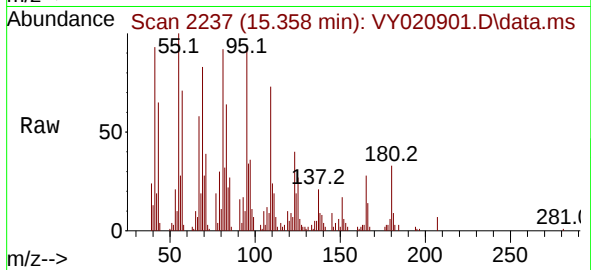
129 10.5 8.6 12.8





#96
1,2,3-Trichlorobenzene
Concen: 1.146 ug/l
RT: 15.358 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY020901.D
Acq: 22 Jan 2025 16:05

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:180 Resp: 2149
Ion Ratio Lower Upper
180 100
182 0.0 48.1 144.3#
145 0.0 16.1 48.2#

