

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082225\
 Data File : VY023195.D
 Acq On : 22 Aug 2025 16:11
 Operator : SY/MD
 Sample : Q2917-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-082025

Quant Time: Aug 25 05:19:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

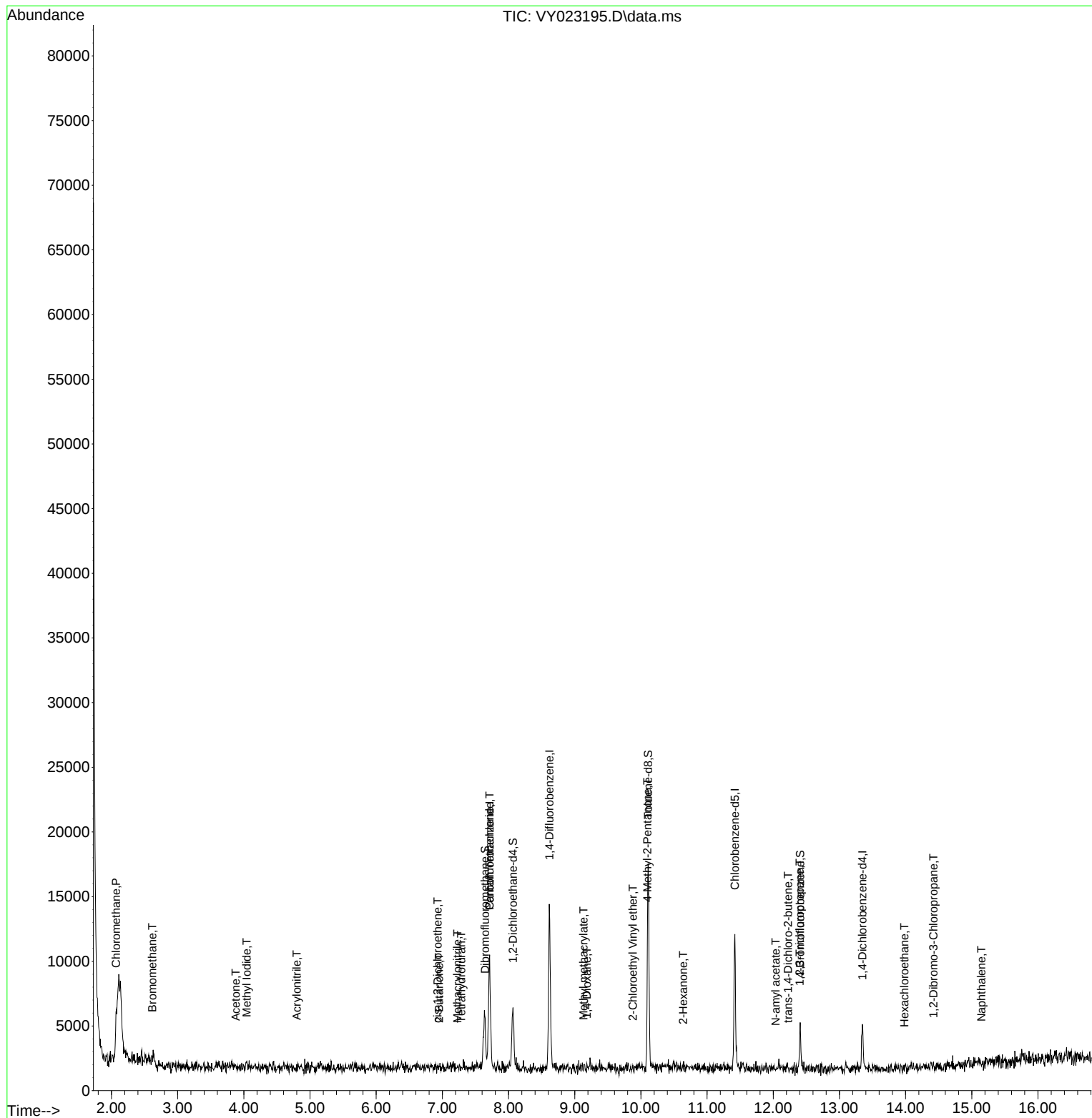
Internal Standards						
1) Pentafluorobenzene	7.713	168	7152	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	10601	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	6232	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.347	152	1110	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	3607	52.917	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.840%	
35) Dibromofluoromethane	7.646	113	3397	53.553	ug/l	0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.100%	
50) Toluene-d8	10.109	98	11368	45.875	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 91.740%	
62) 4-Bromofluorobenzene	12.408	95	1217	15.271	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 30.540%	
Target Compounds						
						Qvalue
3) Chloromethane	2.068	50	351	3.712	ug/l	90
5) Bromomethane	2.617	94	458	5.247	ug/l	87
10) Methyl Iodide	4.043	142	197	2.604	ug/l #	90
15) Acrylonitrile	4.799	53	39	2.551	ug/l #	18
16) Acetone	3.879	43	67	4.537	ug/l #	41
20) Methylene Chloride	4.610	84	82	Below Cal	#	1
25) 2-Butanone	6.951	43	59	2.938	ug/l #	45
27) cis-1,2-Dichloroethene	6.927	96	99	1.106	ug/l #	1
29) Tetrahydrofuran	7.287	42	41	3.293	ug/l #	29
38) Carbon Tetrachloride	7.713	117	710	6.934	ug/l #	13
41) Methacrylonitrile	7.226	41	29	1.269	ug/l #	36
48) Methyl methacrylate	9.134	41	41	1.070	ug/l #	1
49) 1,4-Dioxane	9.183	88	52	115.575	ug/l #	24
51) 4-Methyl-2-Pentanone	10.097	43	98	2.374	ug/l #	61
58) 2-Chloroethyl Vinyl ether	9.878	63	49	1.581	ug/l #	46
59) 2-Hexanone	10.640	43	44	1.565	ug/l #	21
74) N-amyl acetate	12.036	43	22	1.324	ug/l #	40
76) 1,2,3-Trichloropropane	12.402	75	556	51.901	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.225	75	24	5.423	ug/l #	14
90) Hexachloroethane	13.981	117	24	1.681	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.420	75	22	10.563	ug/l #	1
95) Naphthalene	15.145	128	75	2.301	ug/l #	69

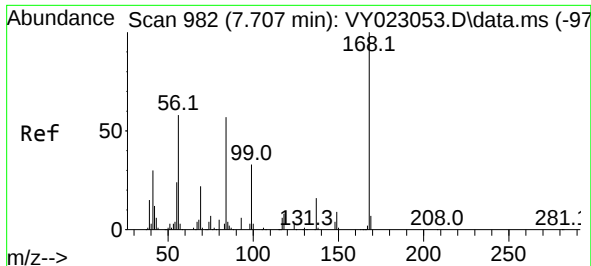
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 25 05:19:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

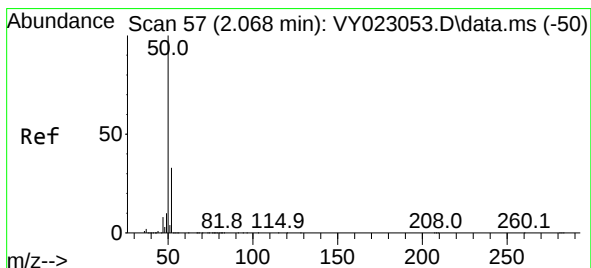
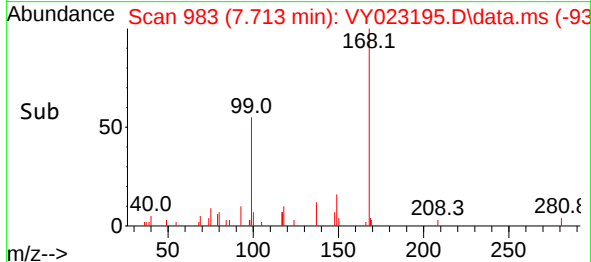
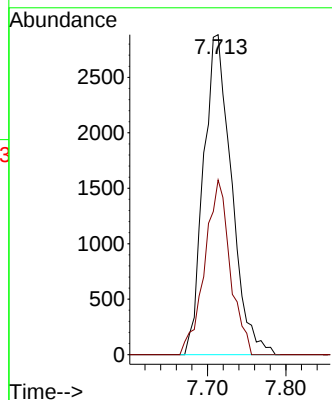
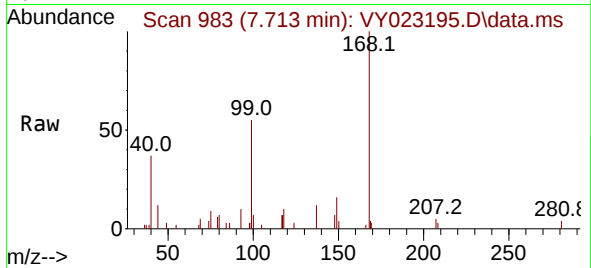




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

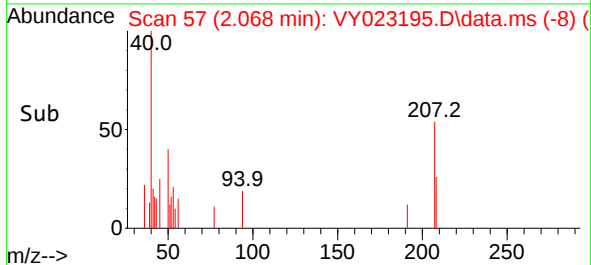
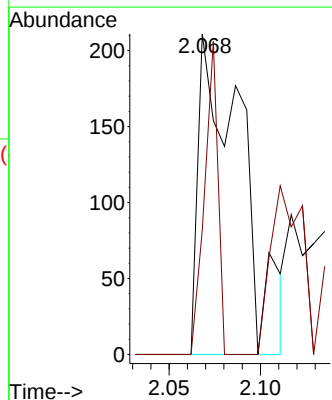
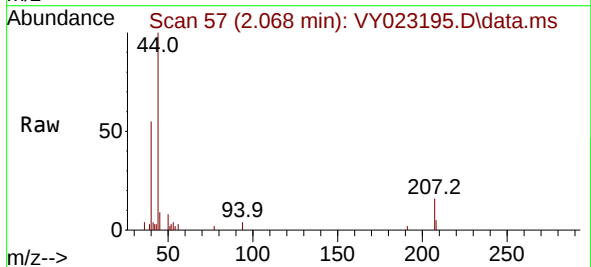
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

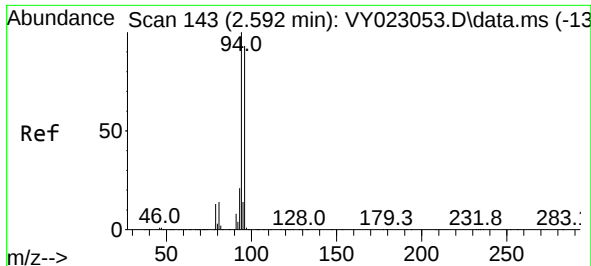
Tgt Ion:168 Resp: 7152
Ion Ratio Lower Upper
168 100
99 54.6 42.8 64.2



#3
Chloromethane
Concen: 3.712 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

Tgt Ion: 50 Resp: 351
Ion Ratio Lower Upper
50 100
52 38.9 26.7 40.1

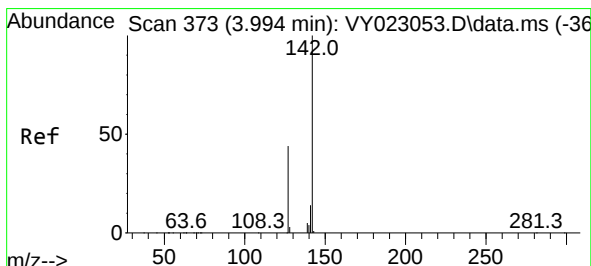
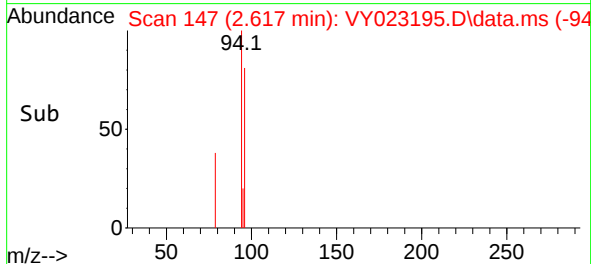
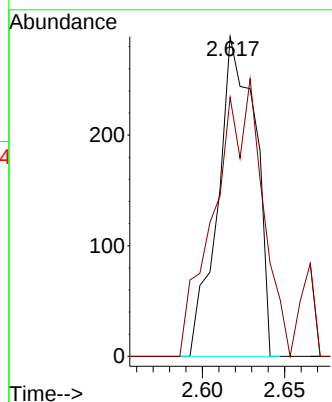
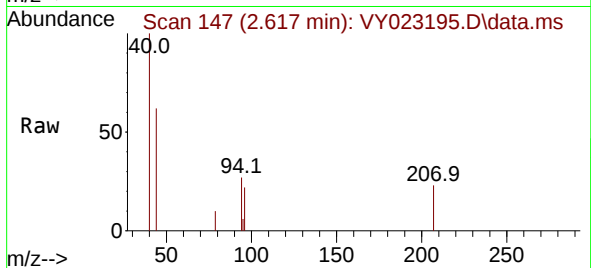




#5
Bromomethane
Concen: 5.247 ug/l
RT: 2.617 min Scan# 14
Delta R.T. 0.025 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

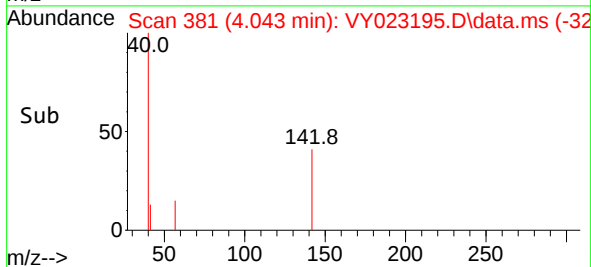
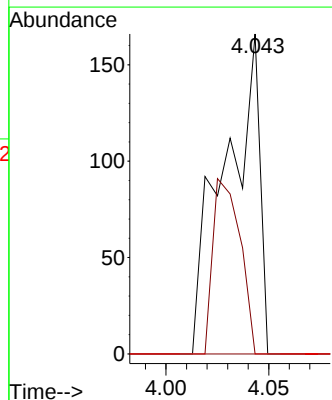
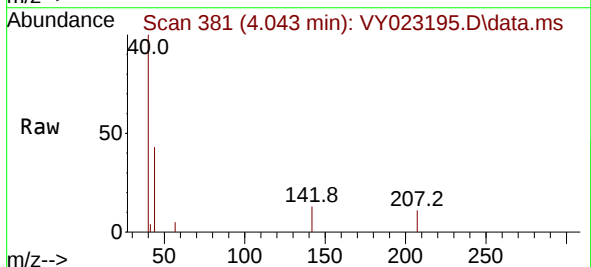
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

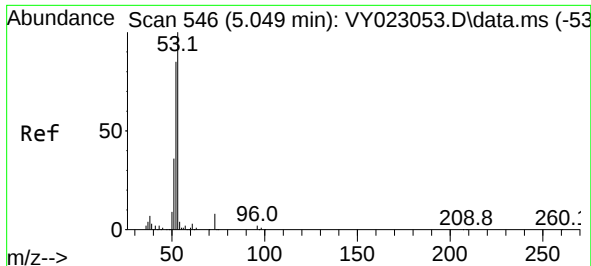
Tgt Ion: 94 Resp: 458
Ion Ratio Lower Upper
94 100
96 81.0 74.6 112.0



#10
Methyl Iodide
Concen: 2.604 ug/l
RT: 4.043 min Scan# 381
Delta R.T. 0.049 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

Tgt Ion: 142 Resp: 197
Ion Ratio Lower Upper
142 100
127 42.6 34.9 52.3
141 0.0 11.3 16.9#

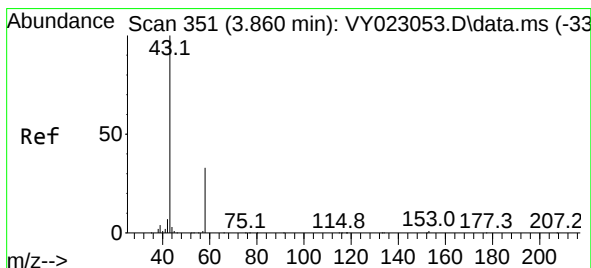
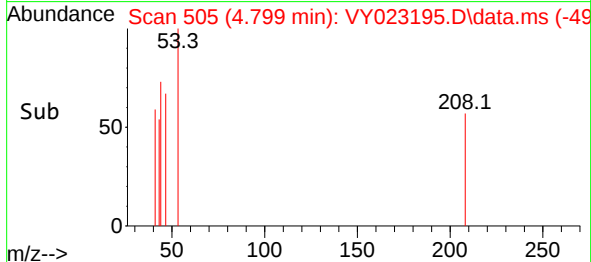
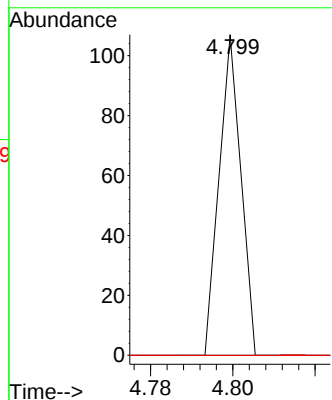
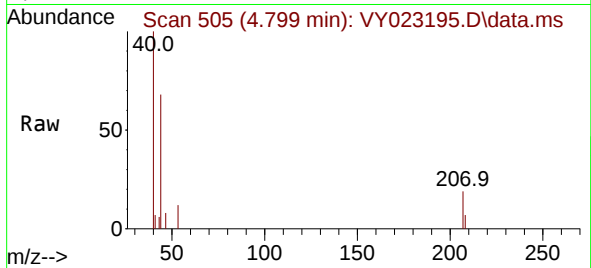




#15
Acrylonitrile
Concen: 2.551 ug/l
RT: 4.799 min Scan# 50
Delta R.T. -0.250 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

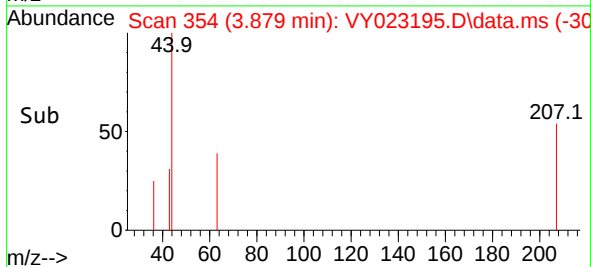
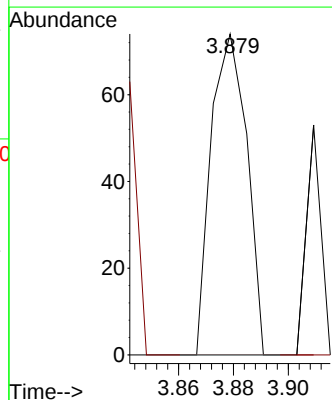
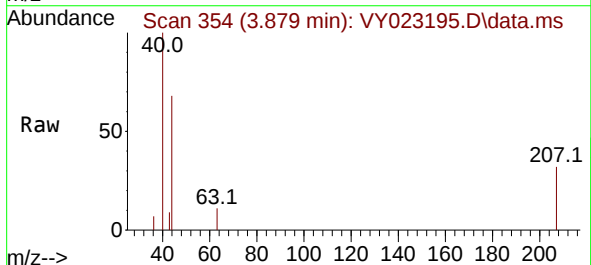
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

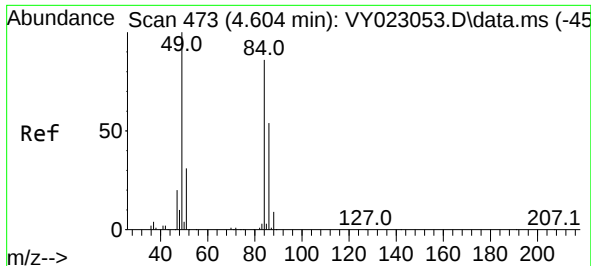
Tgt Ion: 53 Resp: 39
Ion Ratio Lower Upper
53 100
52 0.0 65.3 97.9#
51 0.0 29.5 44.3#



#16
Acetone
Concen: 4.537 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.018 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
58 0.0 27.1 40.7#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.610 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY023195.D

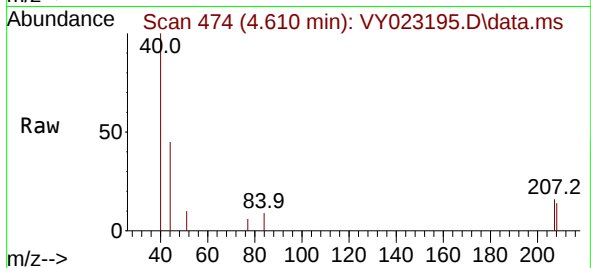
Acq: 22 Aug 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-082025



Tgt Ion: 84 Resp: 82

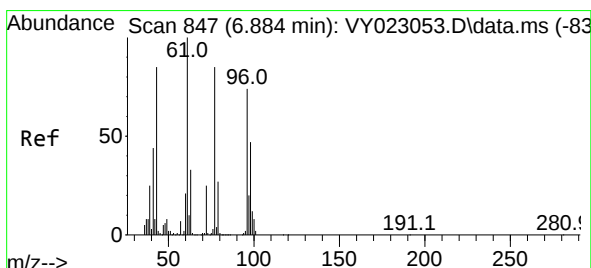
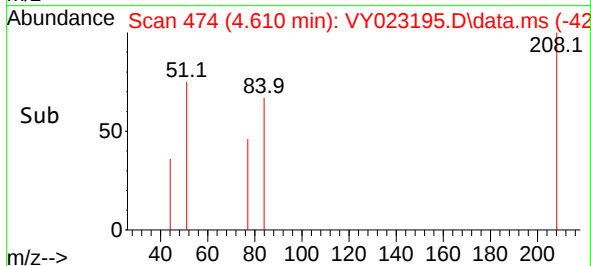
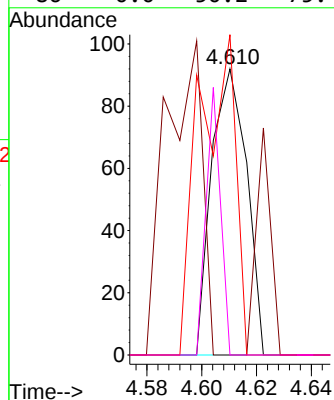
Ion Ratio Lower Upper

84 100

49 0.0 93.0 139.6#

51 112.0 29.0 43.4#

86 0.0 50.2 75.4#



#25

2-Butanone

Concen: 2.938 ug/l

RT: 6.951 min Scan# 858

Delta R.T. 0.067 min

Lab File: VY023195.D

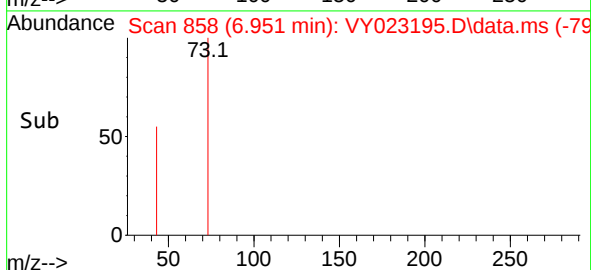
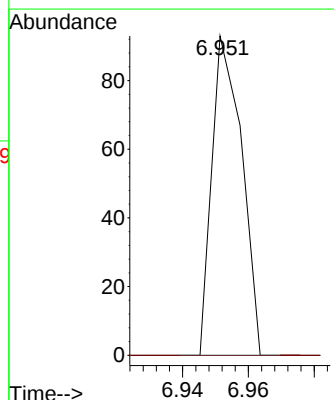
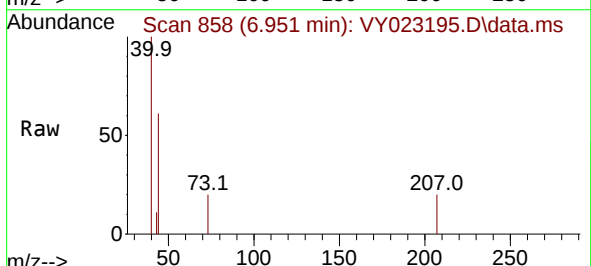
Acq: 22 Aug 2025 16:11

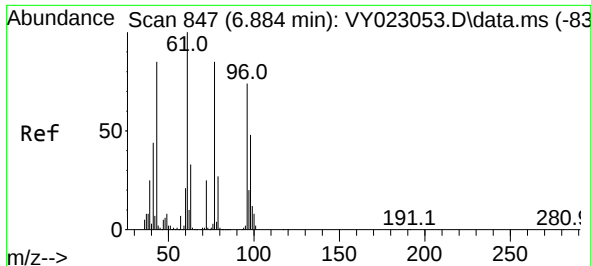
Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

72 0.0 23.5 35.3#





#27

cis-1,2-Dichloroethene

Concen: 1.106 ug/l

RT: 6.927 min Scan# 81

Delta R.T. 0.043 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Instrument :

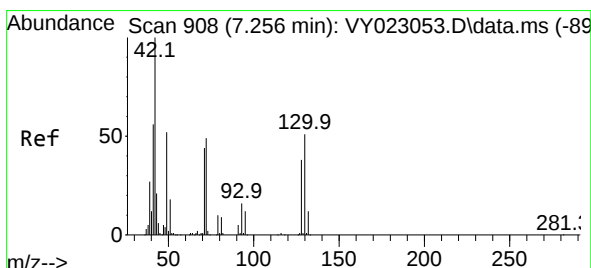
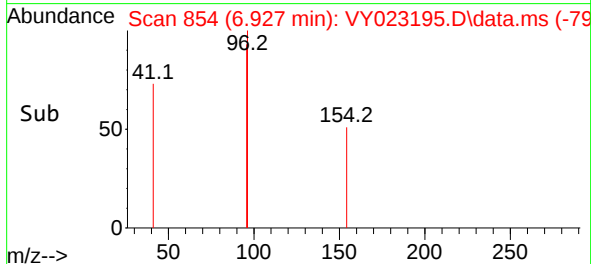
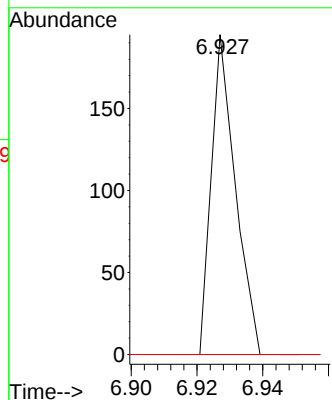
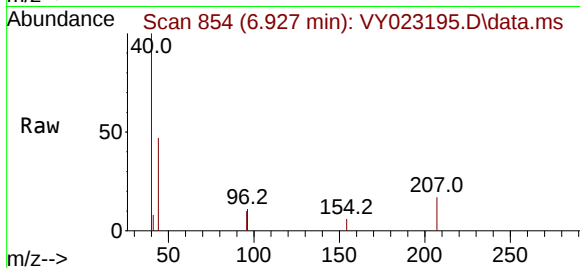
MSVOA_Y

ClientSampleId :

OR-02-082025

Tgt Ion: 96 Resp: 99

Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	278.6
98	0.0	0.0	130.4



#29

Tetrahydrofuran

Concen: 3.293 ug/l

RT: 7.287 min Scan# 913

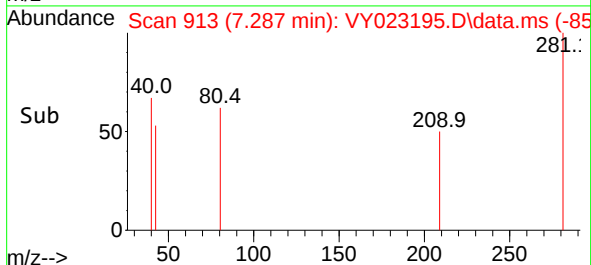
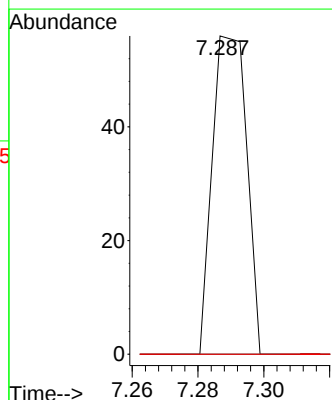
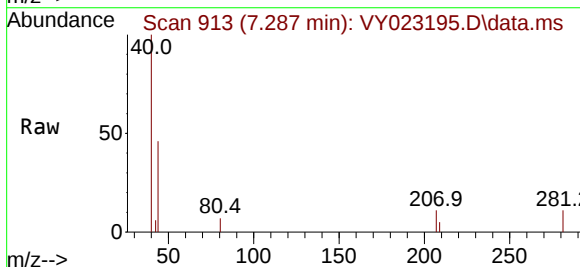
Delta R.T. 0.031 min

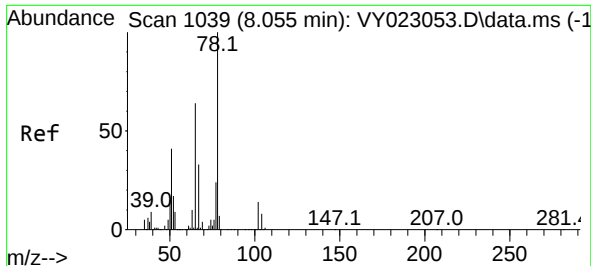
Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Tgt Ion: 42 Resp: 41

Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.4	59.2#
71	0.0	36.5	54.7#





#33

1,2-Dichloroethane-d4

Concen: 52.917 ug/l

RT: 8.067 min Scan# 1103

Delta R.T. 0.012 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

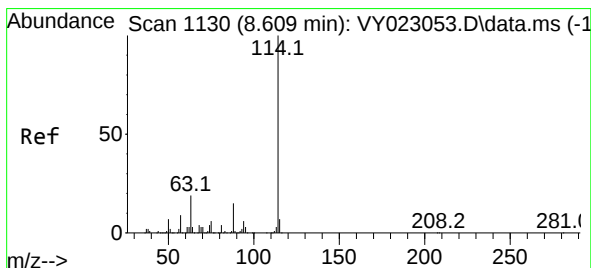
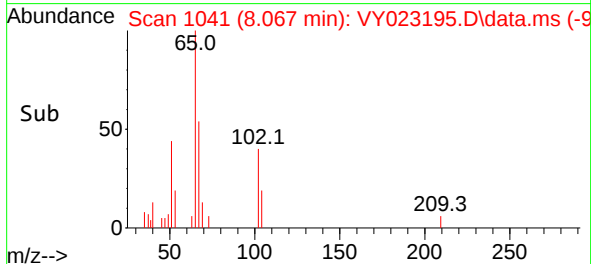
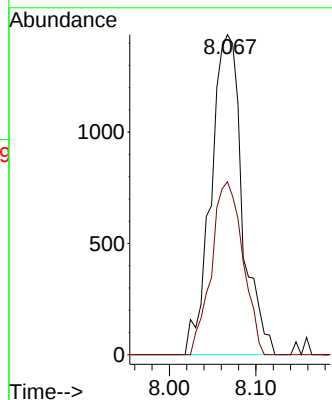
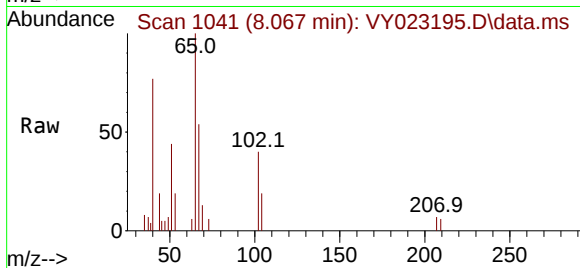
OR-02-082025

Tgt Ion: 65 Resp: 3607

Ion Ratio Lower Upper

65 100

67 54.3 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

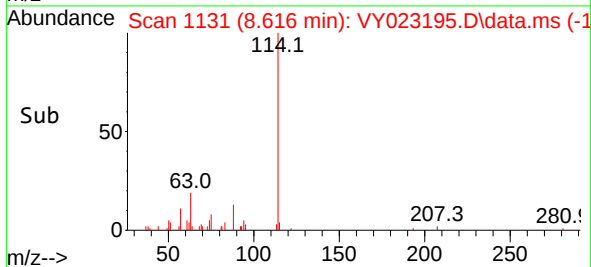
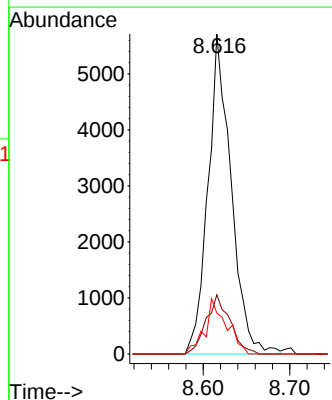
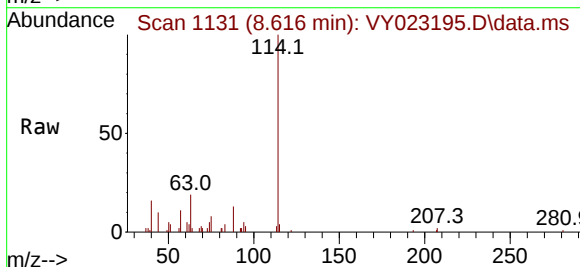
Tgt Ion: 114 Resp: 10601

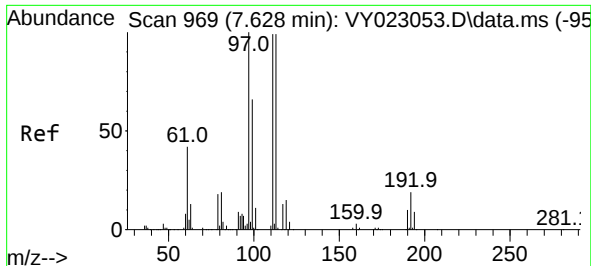
Ion Ratio Lower Upper

114 100

63 18.5 0.0 38.4

88 12.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.553 ug/l

RT: 7.646 min Scan# 91

Delta R.T. 0.018 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-082025

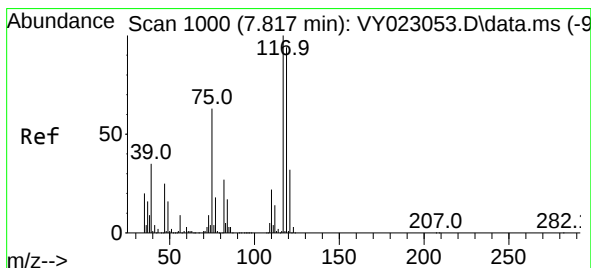
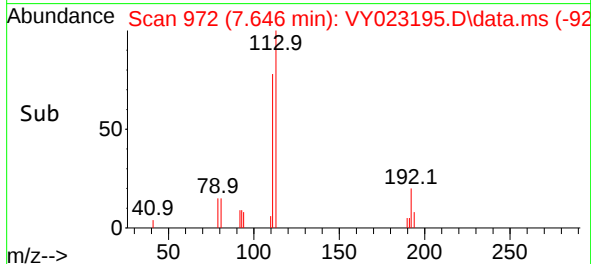
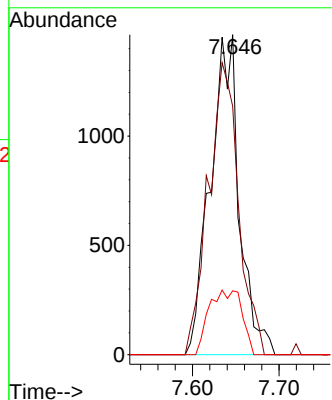
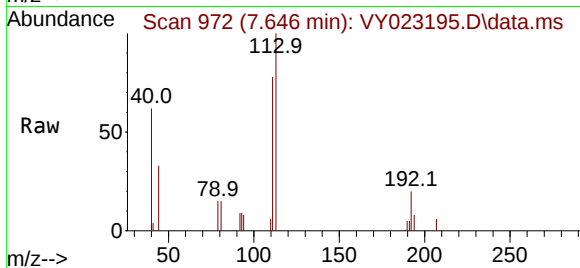
Tgt Ion:113 Resp: 3397

Ion Ratio Lower Upper

113 100

111 95.2 81.1 121.7

192 23.0 16.2 24.4



#38

Carbon Tetrachloride

Concen: 6.934 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.103 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

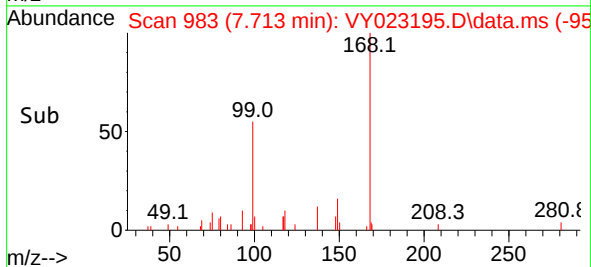
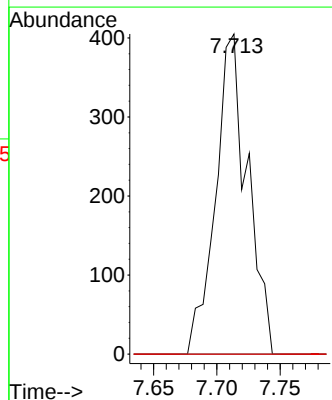
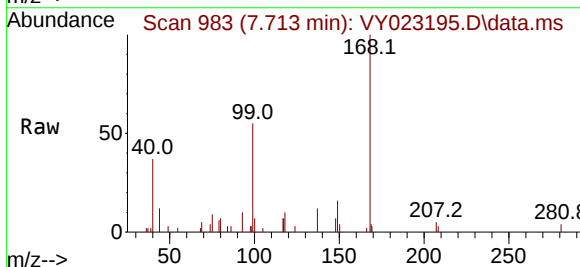
Tgt Ion:117 Resp: 710

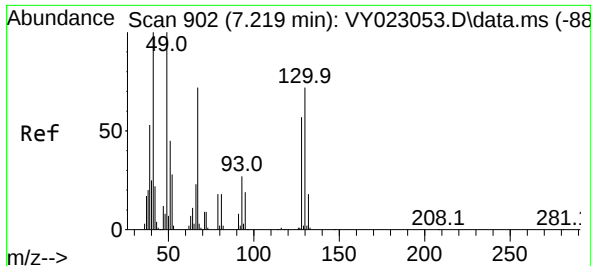
Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

121 0.0 25.8 38.8#

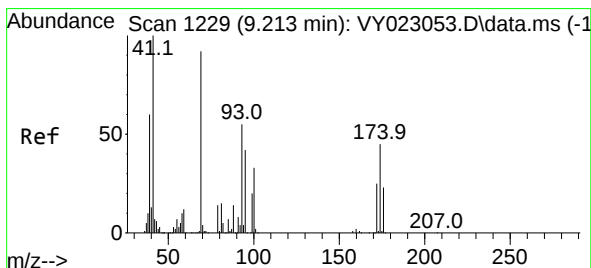
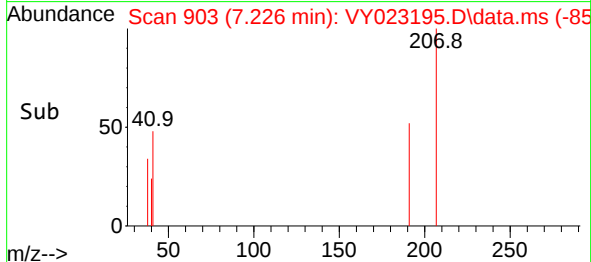
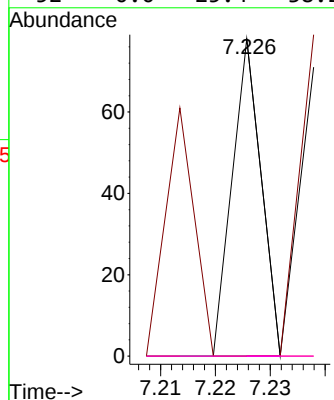
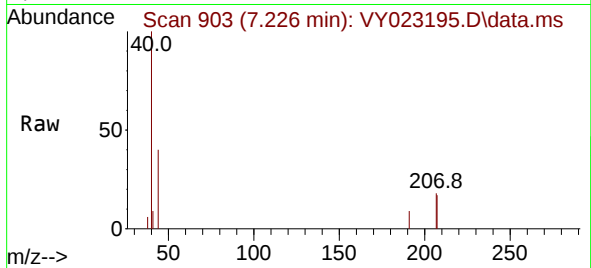




#41
Methacrylonitrile
Concen: 1.269 ug/l
RT: 7.226 min Scan# 902
Delta R.T. 0.006 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

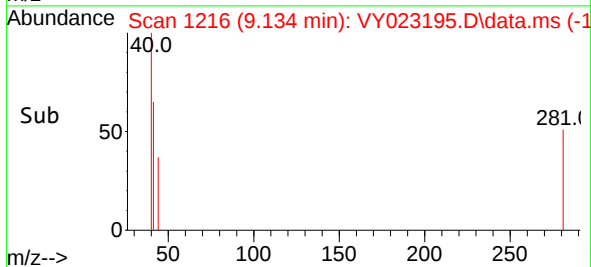
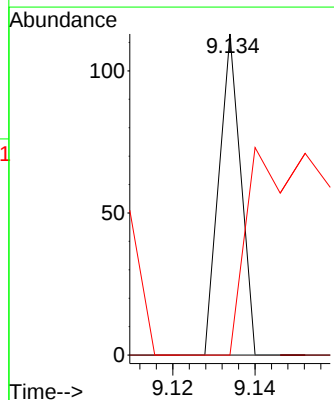
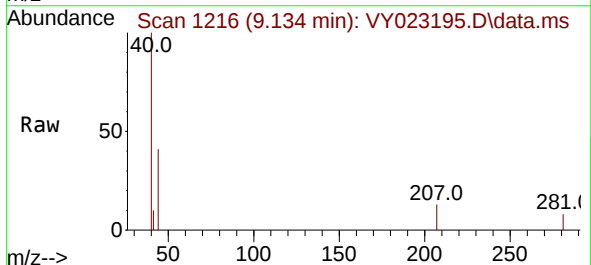
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

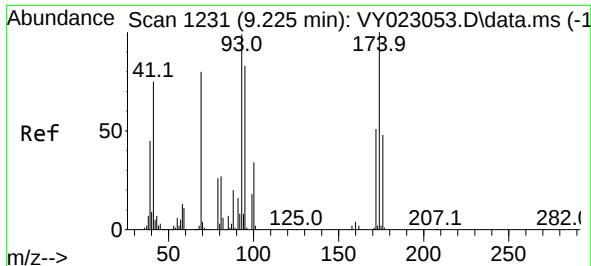
Tgt Ion:	41	Resp:	29
Ion	Ratio	Lower	Upper
41	100		
39	75.9	43.4	65.2#
67	0.0	63.6	95.4#
52	0.0	25.4	38.2#



#48
Methyl methacrylate
Concen: 1.070 ug/l
RT: 9.134 min Scan# 1216
Delta R.T. -0.079 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

Tgt Ion:	41	Resp:	41
Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.2	109.8#
39	231.7	47.0	70.4#





#49

1,4-Dioxane

Concen: 115.575 ug/l

RT: 9.183 min Scan# 11

Delta R.T. -0.042 min

Lab File: VY023195.D

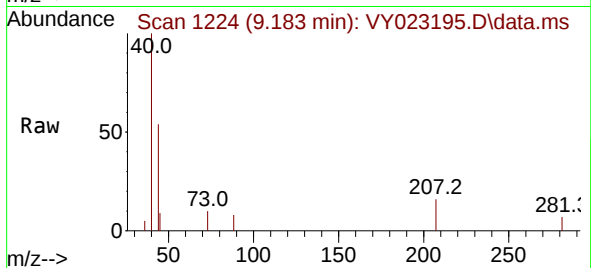
Acq: 22 Aug 2025 16:11

Instrument :

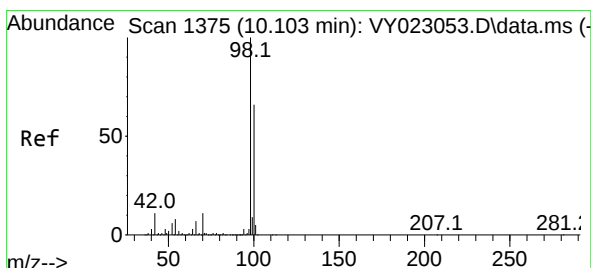
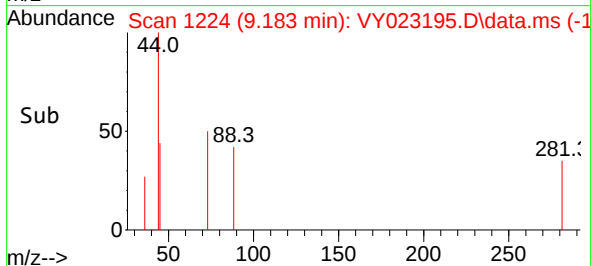
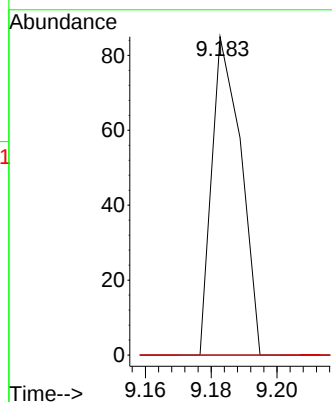
MSVOA_Y

ClientSampleId :

OR-02-082025



Tgt Ion:	88	Resp:	52
Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.3	36.5#
58	0.0	55.4	83.0#



#50

Toluene-d8

Concen: 45.875 ug/l

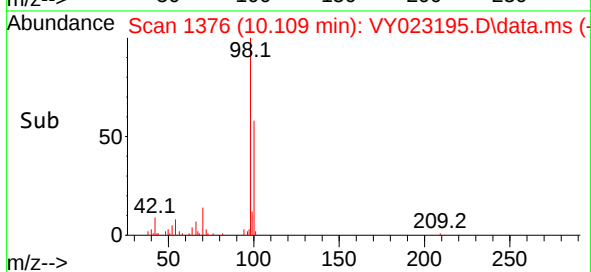
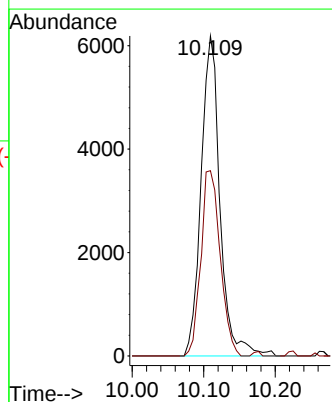
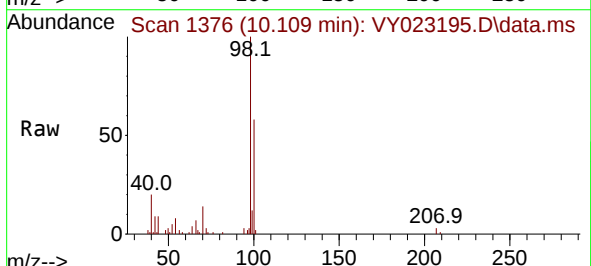
RT: 10.109 min Scan# 1376

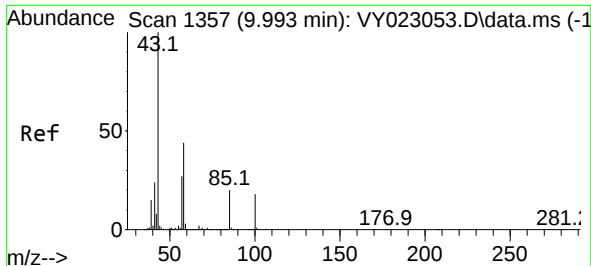
Delta R.T. 0.006 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Tgt Ion:	98	Resp:	11368
Ion	Ratio	Lower	Upper
98	100		
100	59.1	52.3	78.5





#51

4-Methyl-2-Pentanone

Concen: 2.374 ug/l

RT: 10.097 min Scan# 11

Delta R.T. 0.104 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

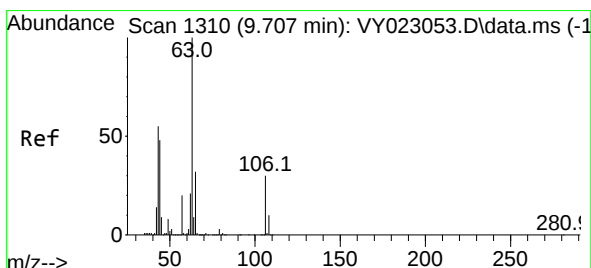
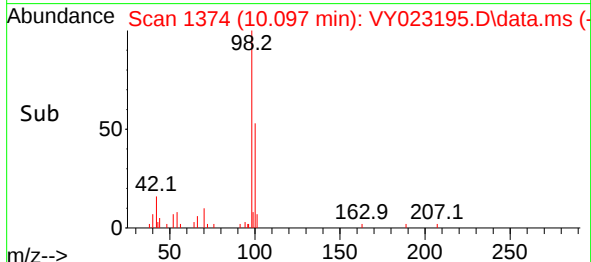
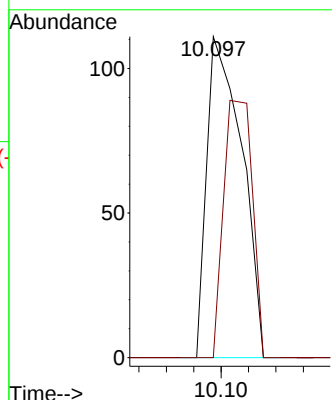
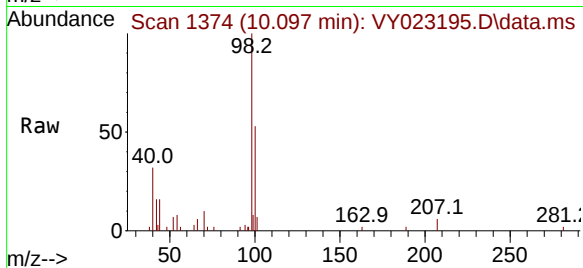
OR-02-082025

Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

43 100

58 66.3 33.5 50.3#



#58

2-Chloroethyl Vinyl ether

Concen: 1.581 ug/l

RT: 9.878 min Scan# 1338

Delta R.T. 0.171 min

Lab File: VY023195.D

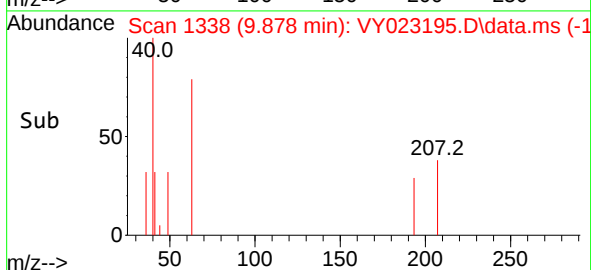
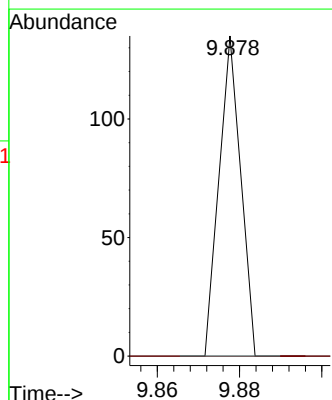
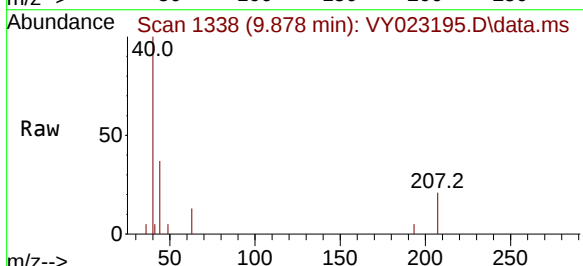
Acq: 22 Aug 2025 16:11

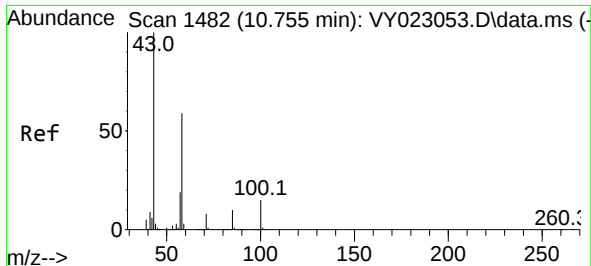
Tgt Ion: 63 Resp: 49

Ion Ratio Lower Upper

63 100

106 0.0 23.2 34.8#

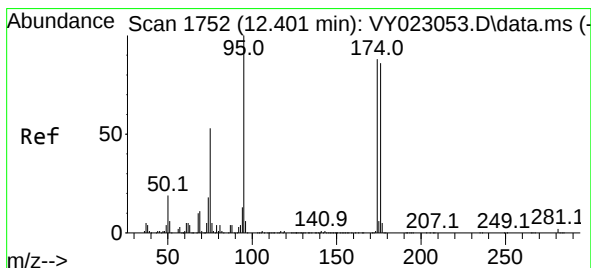
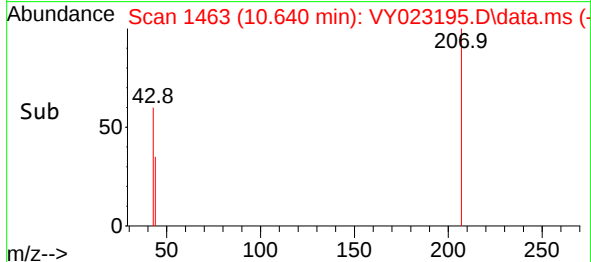
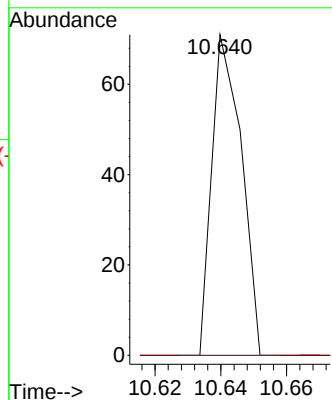
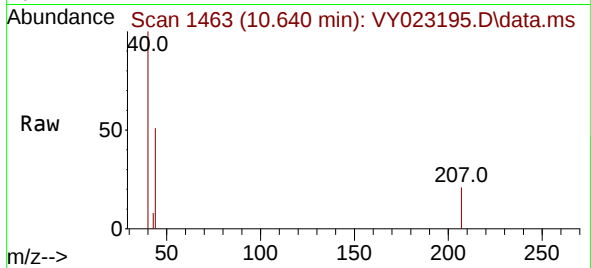




#59
2-Hexanone
Concen: 1.565 ug/l
RT: 10.640 min Scan# 1482
Delta R.T. -0.116 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

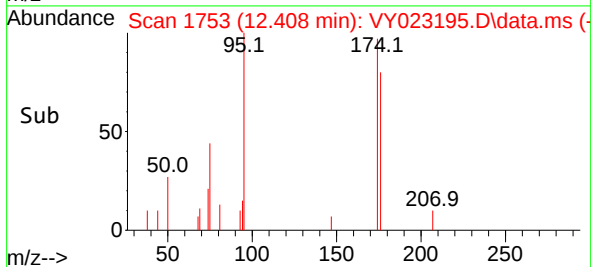
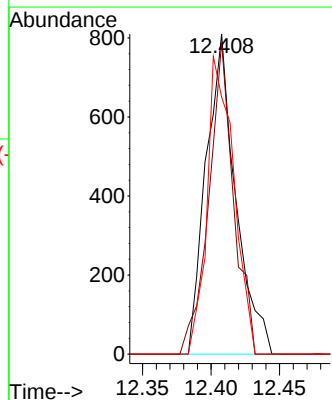
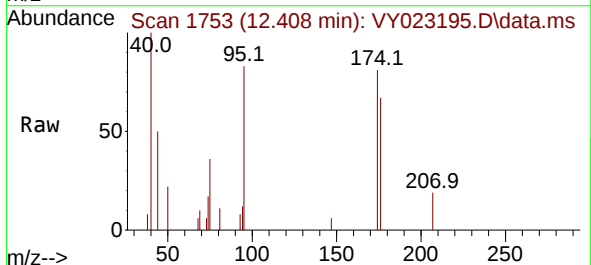
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

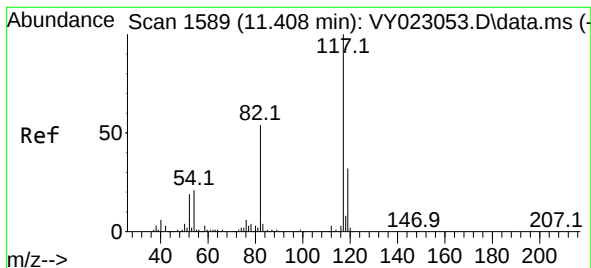
Tgt Ion: 43 Resp: 44
Ion Ratio Lower Upper
43 100
58 0.0 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 15.271 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

Tgt Ion: 95 Resp: 1217
Ion Ratio Lower Upper
95 100
174 81.6 0.0 171.6
176 83.9 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-082025

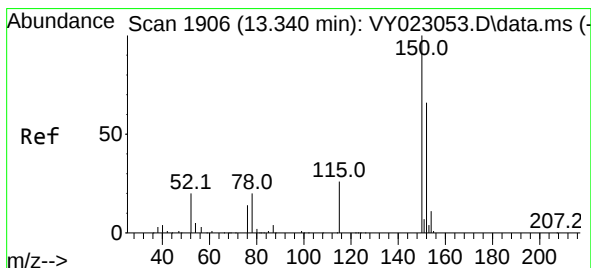
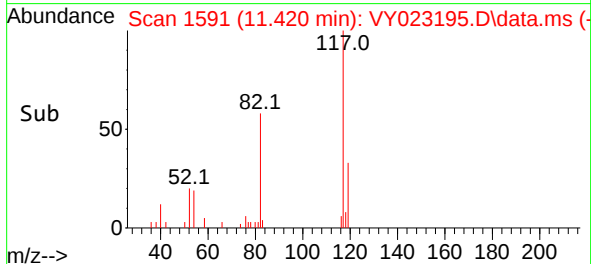
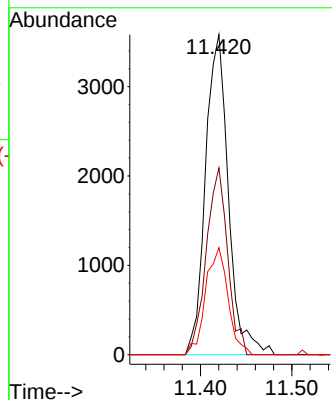
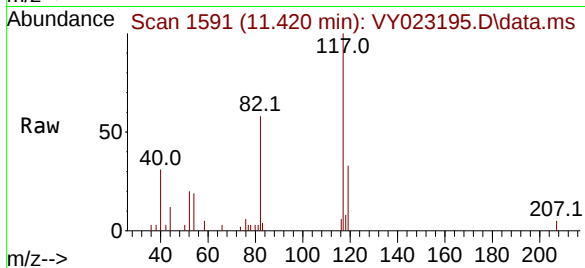
Tgt Ion:117 Resp: 6232

Ion Ratio Lower Upper

117 100

82 58.4 43.4 65.0

119 33.5 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

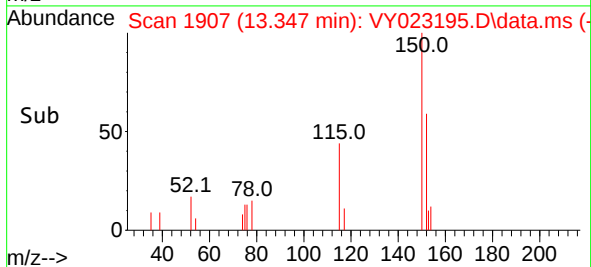
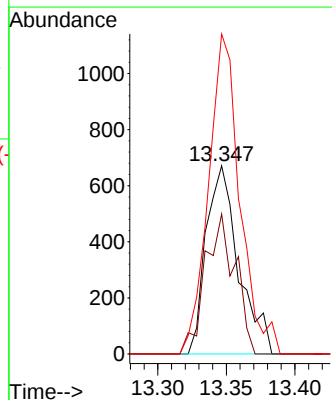
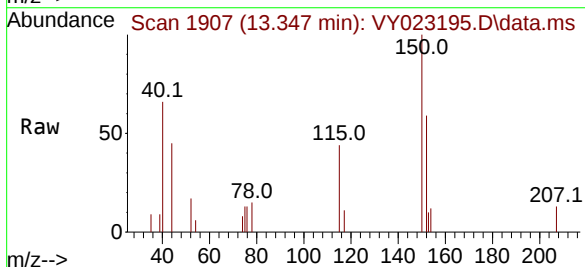
Tgt Ion:152 Resp: 1110

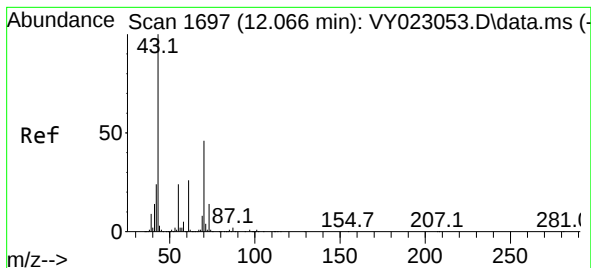
Ion Ratio Lower Upper

152 100

115 68.4 28.2 84.6

150 164.0 0.0 348.0

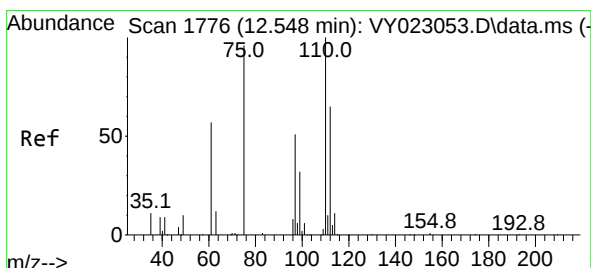
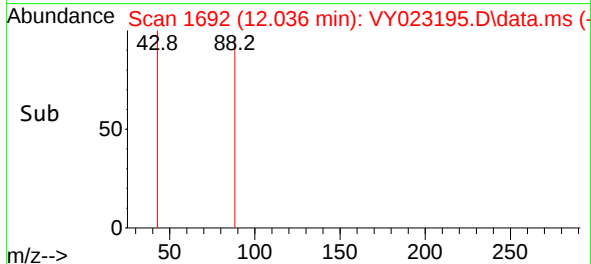
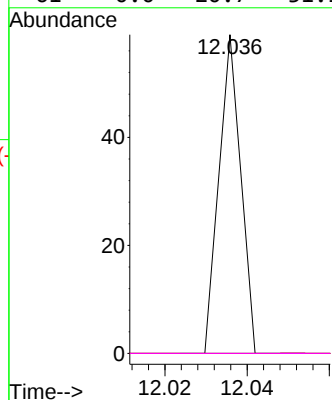
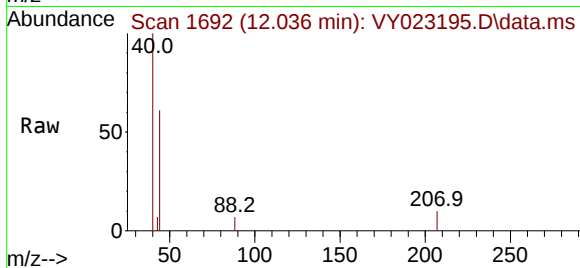




#74
N-amy1 acetate
Concen: 1.324 ug/l
RT: 12.036 min Scan# 1752
Delta R.T. -0.030 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

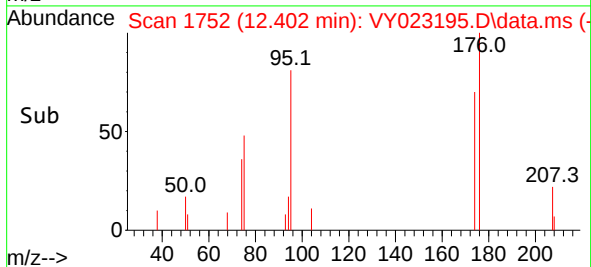
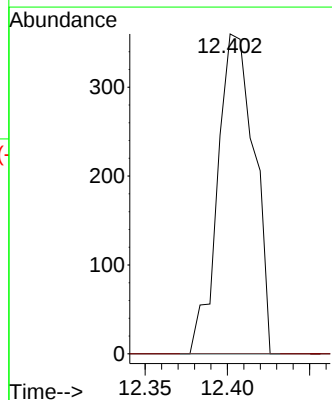
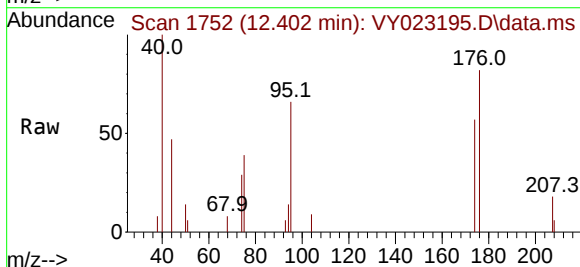
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-082025

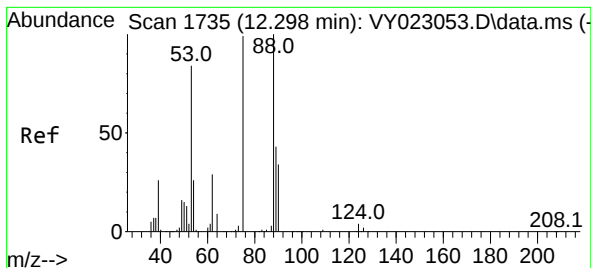
Tgt Ion: 43	Resp: 22
Ion Ratio	Lower Upper
43 100	
70 0.0	37.5 56.3#
55 0.0	20.7 31.1#
61 0.0	20.7 31.1#



#76
1,2,3-Trichloropropane
Concen: 51.901 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023195.D
Acq: 22 Aug 2025 16:11

Tgt Ion: 75	Resp: 556
Ion Ratio	Lower Upper
75 100	
77 0.0	0.0 0.0

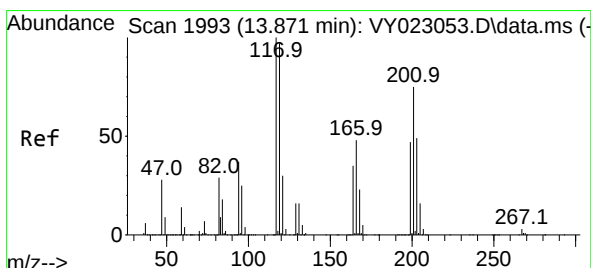
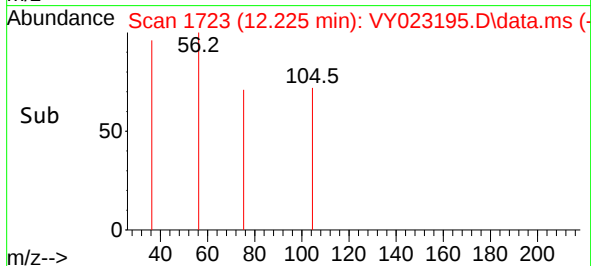
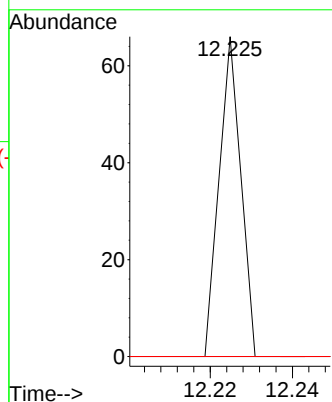
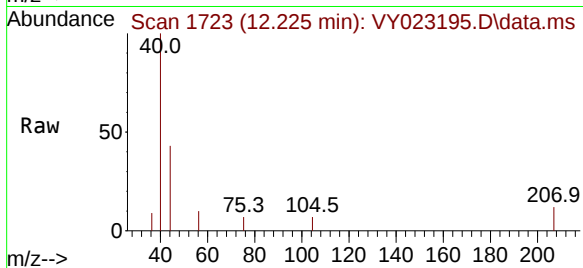




#81
 trans-1,4-Dichloro-2-butene
 Concen: 5.423 ug/l
 RT: 12.225 min Scan# 11
 Delta R.T. -0.073 min
 Lab File: VY023195.D
 Acq: 22 Aug 2025 16:11

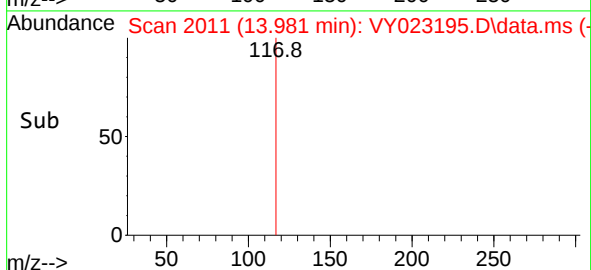
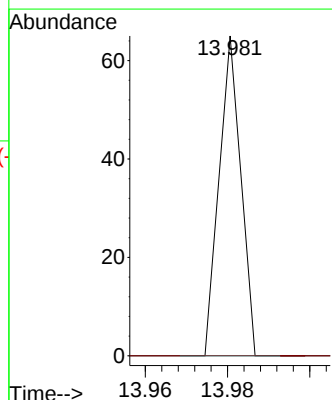
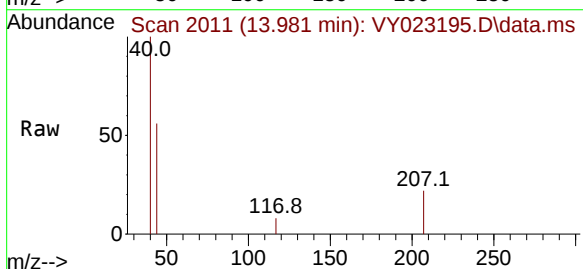
Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-082025

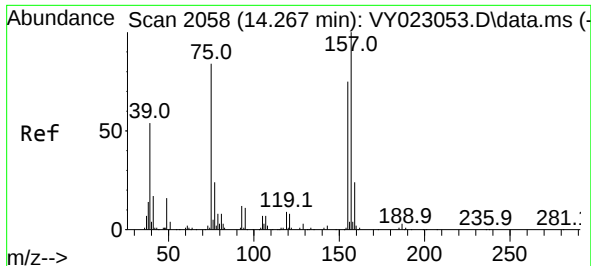
Tgt Ion: 75 Resp: 24
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.8 106.2#
 89 0.0 38.1 57.1#



#90
 Hexachloroethane
 Concen: 1.681 ug/l
 RT: 13.981 min Scan# 2011
 Delta R.T. 0.110 min
 Lab File: VY023195.D
 Acq: 22 Aug 2025 16:11

Tgt Ion: 117 Resp: 24
 Ion Ratio Lower Upper
 117 100
 201 0.0 38.4 115.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 10.563 ug/l

RT: 14.420 min Scan# 2058

Delta R.T. 0.153 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-082025

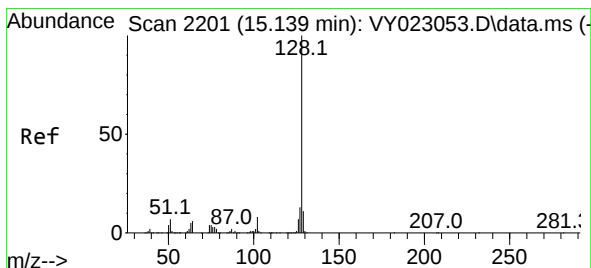
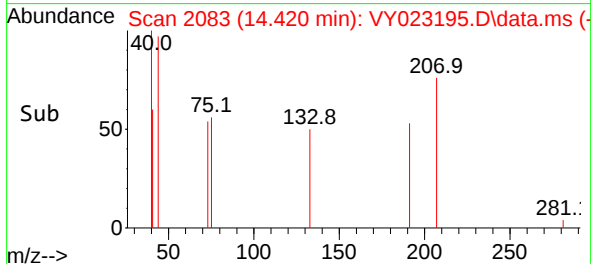
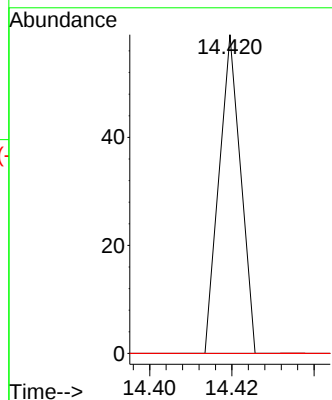
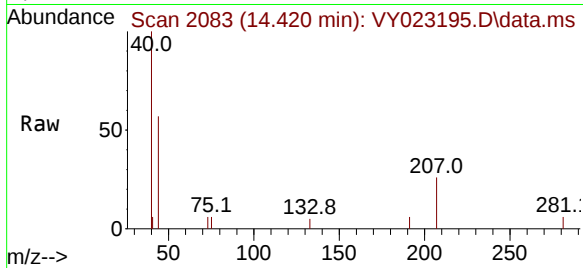
Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 57.2 171.6#



#95

Naphthalene

Concen: 2.301 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.006 min

Lab File: VY023195.D

Acq: 22 Aug 2025 16:11

Tgt Ion: 128 Resp: 75

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 9.0 13.4#

