

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
 Data File : VY022546.D
 Acq On : 04 Jun 2025 13:26
 Operator : SY/MD
 Sample : Q2195-01
 Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-01-060325

Quant Time: Jun 05 04:14:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

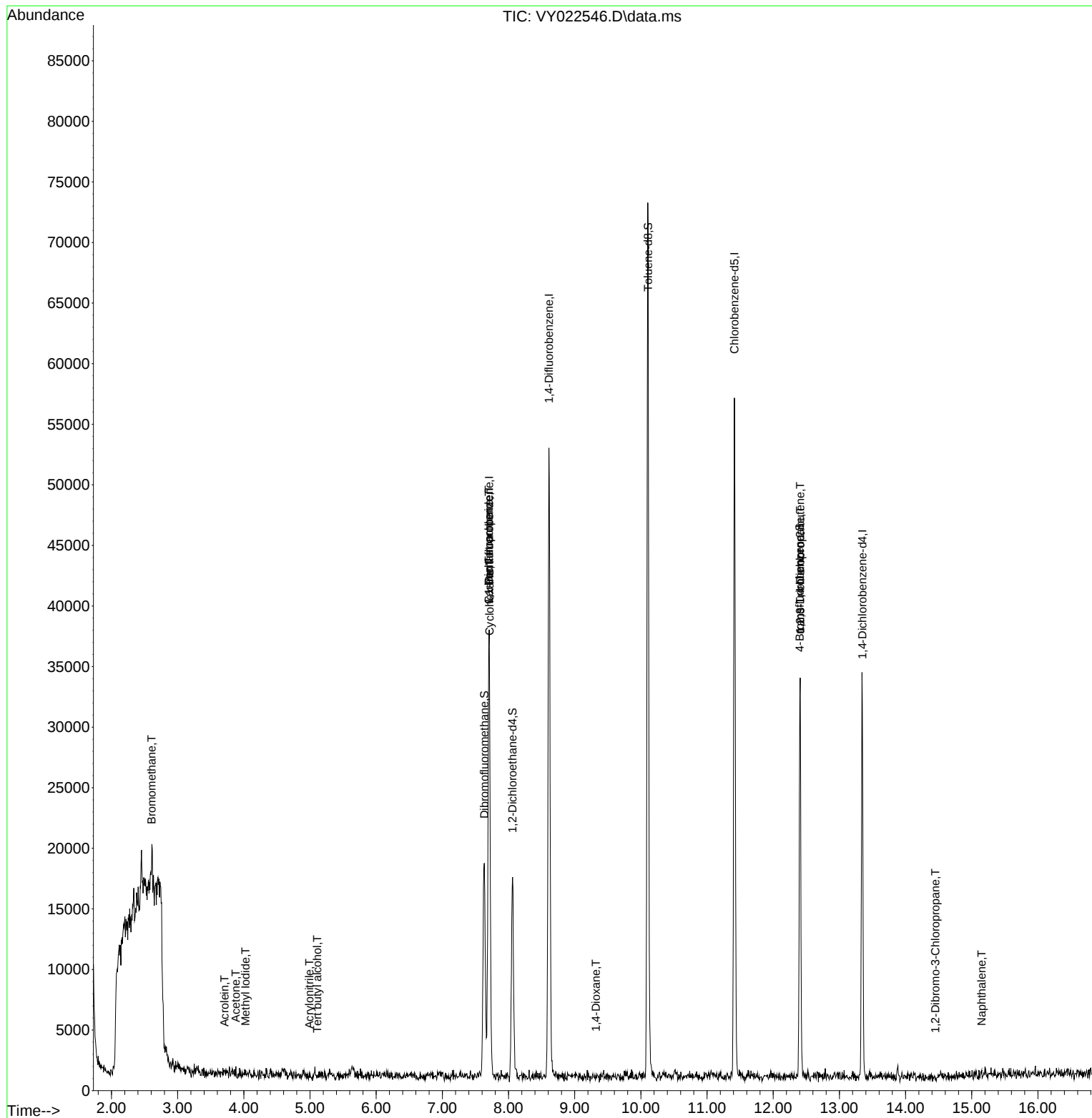
Internal Standards						
1) Pentafluorobenzene	7.707	168	27241	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	42301	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	28413	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	7204	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12528	41.119	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	82.240%		
35) Dibromofluoromethane	7.634	113	12584	49.840	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.680%		
50) Toluene-d8	10.109	98	46049	45.137	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	90.280%		
62) 4-Bromofluorobenzene	12.401	95	9563	31.460	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	62.920%		
Target Compounds					Qvalue	
5) Bromomethane	2.604	94	1465	1.829	ug/l	83
10) Methyl Iodide	4.025	142	432	1.336	ug/l #	68
11) Tert butyl alcohol	5.110	59	53	2.436	ug/l #	73
13) Acrolein	3.708	56	58	2.139	ug/l #	14
15) Acrylonitrile	4.988	53	74	1.093	ug/l #	17
16) Acetone	3.879	43	125	2.020	ug/l #	45
31) Cyclohexane	7.713	56	726	1.240	ug/l #	74
36) 1,1-Dichloropropene	7.701	75	2724	6.647	ug/l #	50
38) Carbon Tetrachloride	7.701	117	3101	7.377	ug/l #	13
49) 1,4-Dioxane	9.323	88	42	22.030	ug/l #	20
76) 1,2,3-Trichloropropane	12.408	75	5344	64.841	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	5344	156.588	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.450	75	19	1.344	ug/l #	2
95) Naphthalene	15.151	128	281	1.251	ug/l #	69

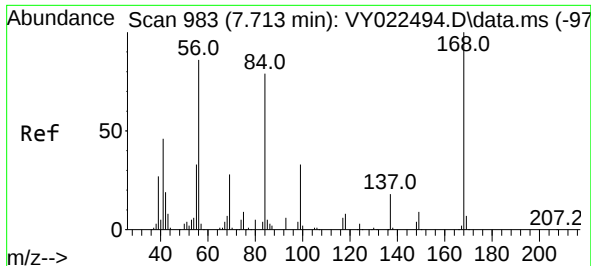
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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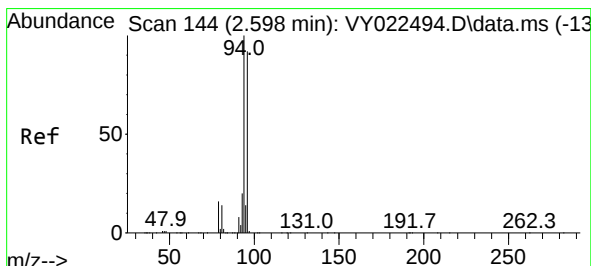
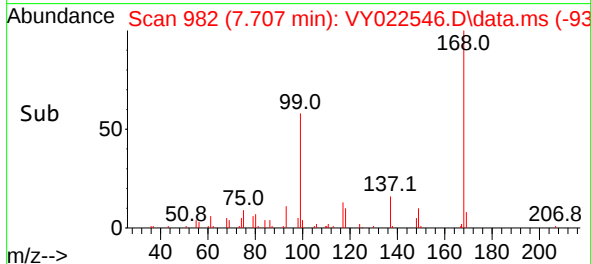
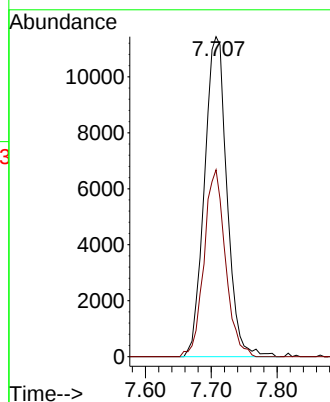
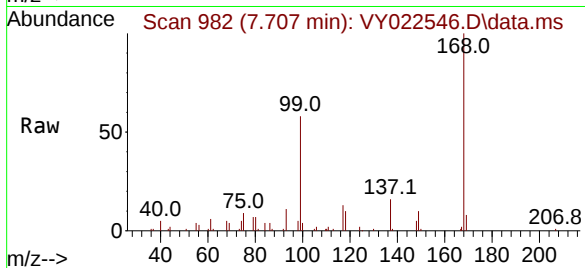




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

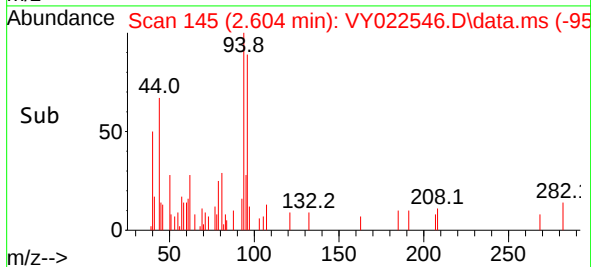
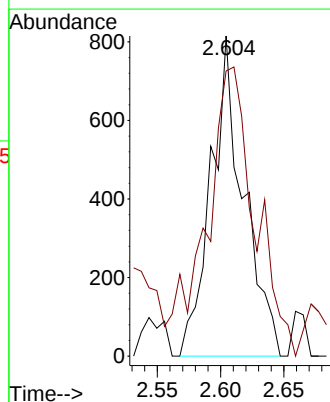
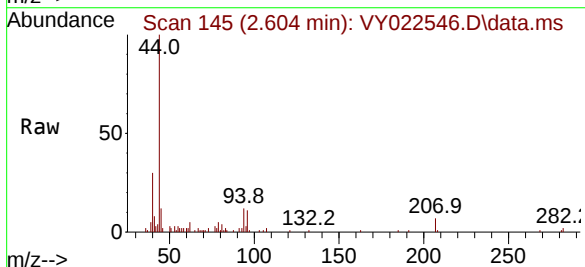
Instrument :
MSVOA_Y
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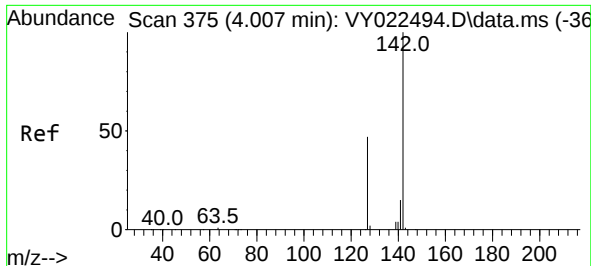
Tgt Ion:168 Resp: 27241
Ion Ratio Lower Upper
168 100
99 58.4 44.3 66.5



#5
Bromomethane
Concen: 1.829 ug/l
RT: 2.604 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 94 Resp: 1465
Ion Ratio Lower Upper
94 100
96 76.7 74.0 111.0

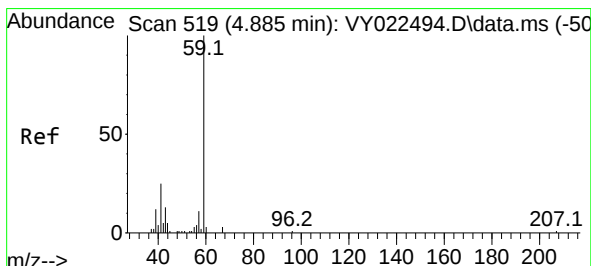
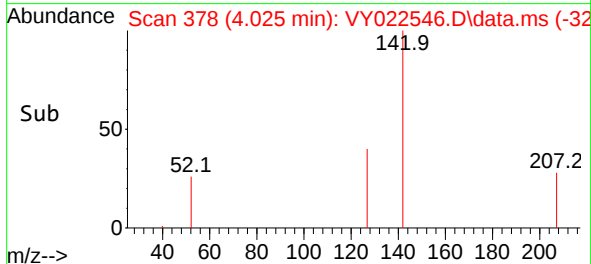
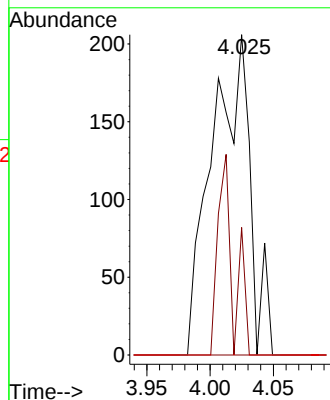
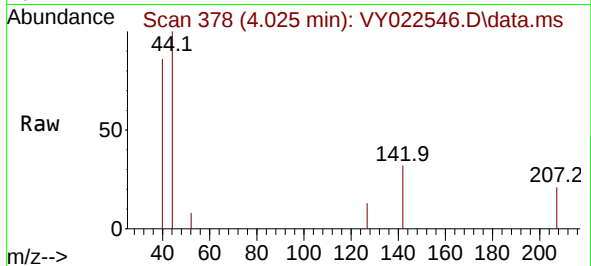




#10
Methyl Iodide
Concen: 1.336 ug/l
RT: 4.025 min Scan# 31
Delta R.T. 0.018 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

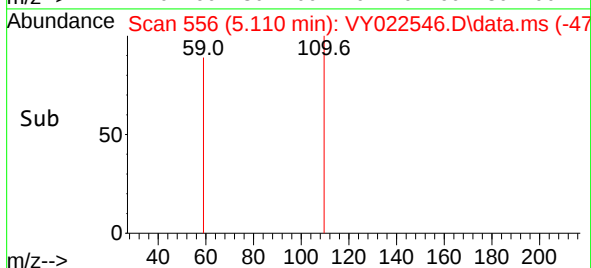
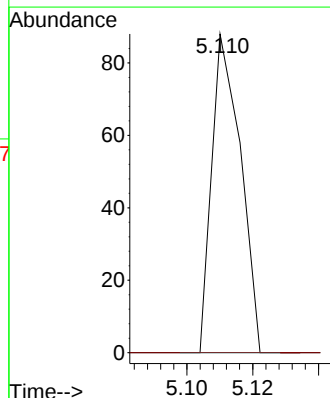
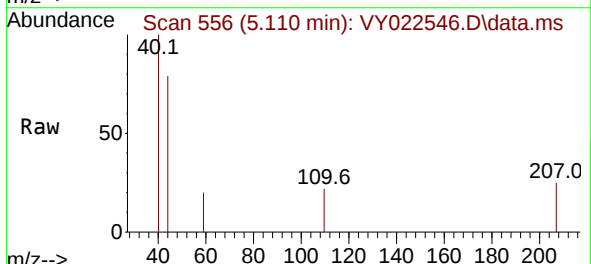
Instrument :
MSVOA_Y
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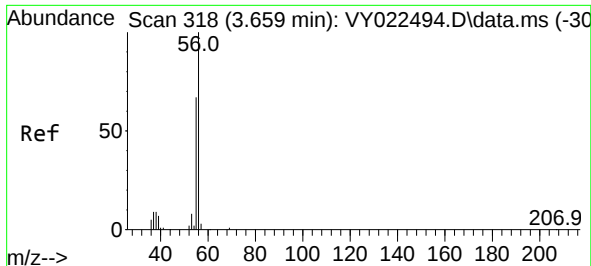
Tgt Ion:142 Resp: 432
Ion Ratio Lower Upper
142 100
127 25.5 37.1 55.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.436 ug/l
RT: 5.110 min Scan# 556
Delta R.T. 0.225 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 59 Resp: 53
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

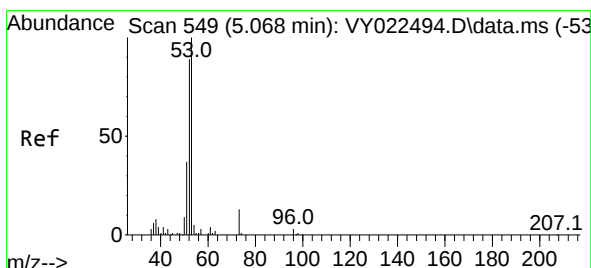
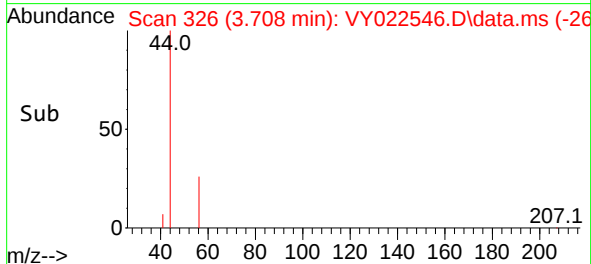
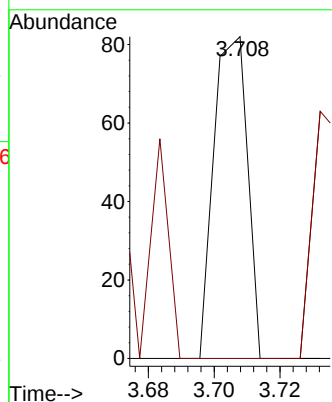
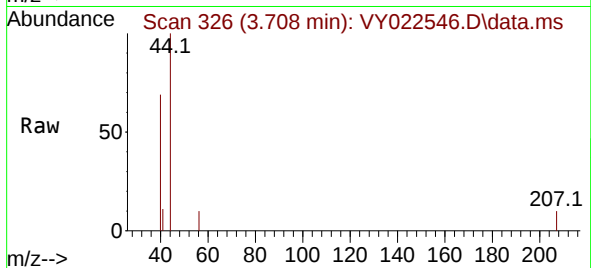




#13
Acrolein
Concen: 2.139 ug/l
RT: 3.708 min Scan# 318
Delta R.T. 0.049 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

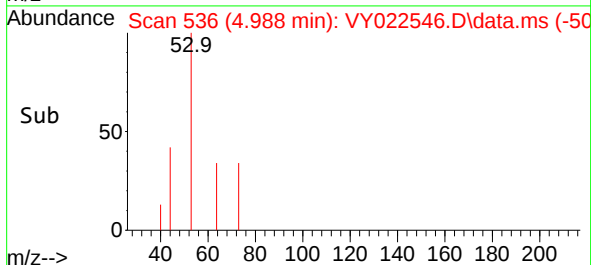
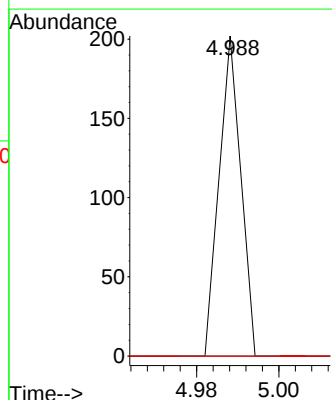
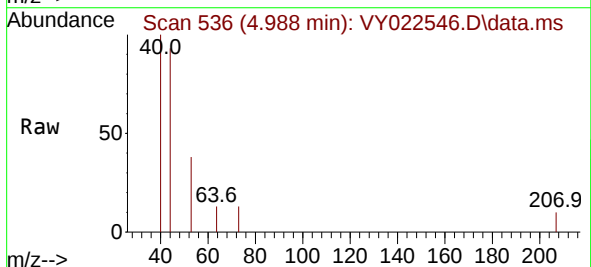
Instrument :
MSVOA_Y
ClientSampleId :
OK-01-060325

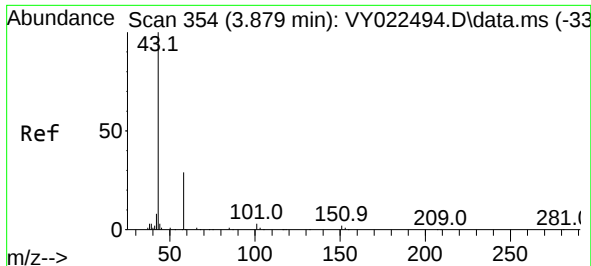
Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#



#15
Acrylonitrile
Concen: 1.093 ug/l
RT: 4.988 min Scan# 536
Delta R.T. -0.079 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 53 Resp: 74
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 0.0 30.1 45.1#





#16

Acetone

Concen: 2.020 ug/l

RT: 3.879 min Scan# 31

Delta R.T. -0.000 min

Lab File: VY022546.D

Acq: 04 Jun 2025 13:26

Instrument :

MSVOA_Y

ClientSampleId :

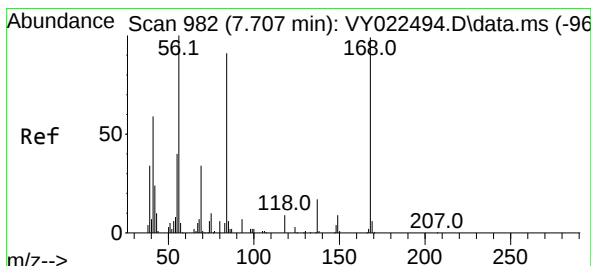
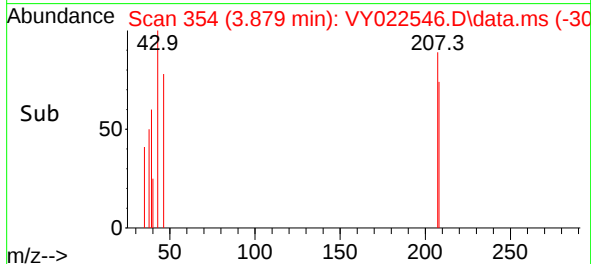
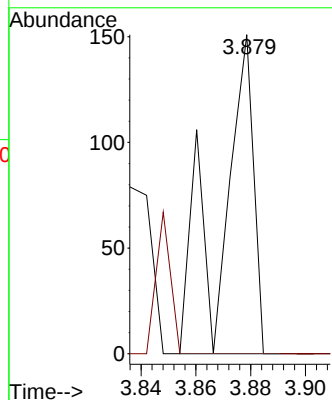
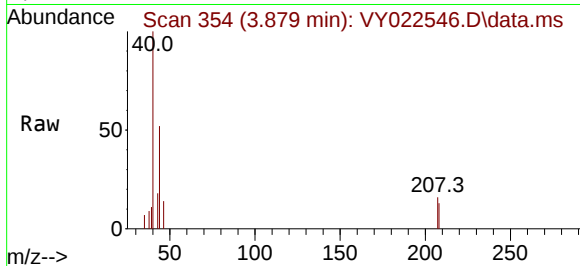
OK-01-060325

Tgt Ion: 43 Resp: 125

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#



#31

Cyclohexane

Concen: 1.240 ug/l

RT: 7.713 min Scan# 983

Delta R.T. 0.006 min

Lab File: VY022546.D

Acq: 04 Jun 2025 13:26

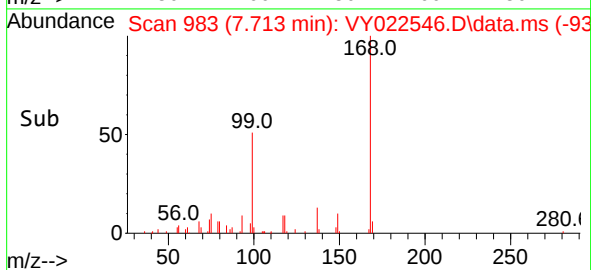
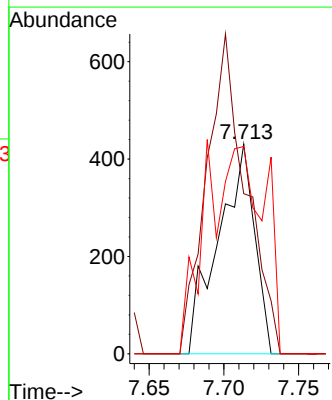
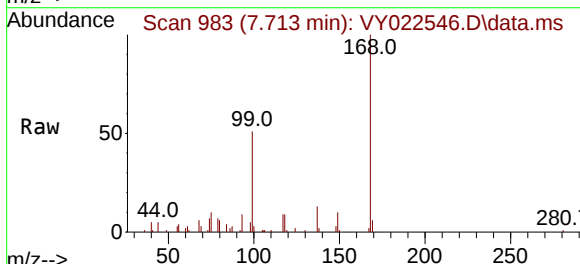
Tgt Ion: 56 Resp: 726

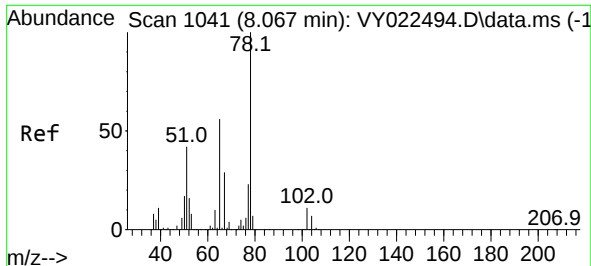
Ion Ratio Lower Upper

56 100

69 76.3 27.0 40.6#

84 98.8 72.6 109.0





#33

1,2-Dichloroethane-d4

Concen: 41.119 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022546.D

Acq: 04 Jun 2025 13:26

Instrument :

MSVOA_Y

ClientSampleId :

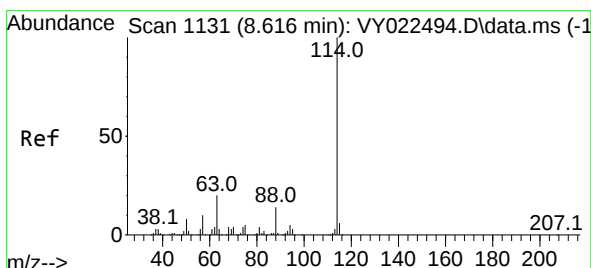
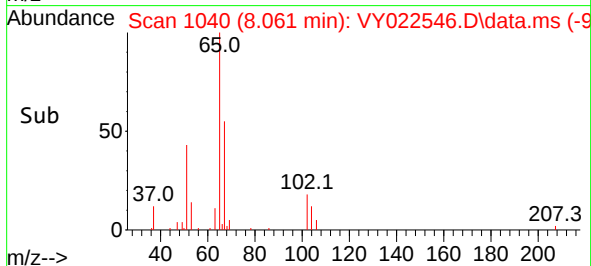
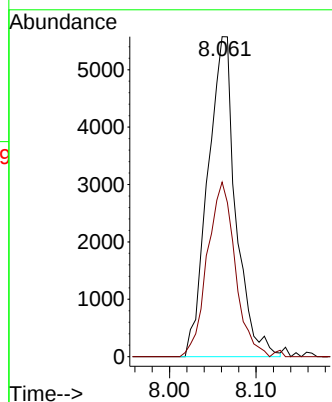
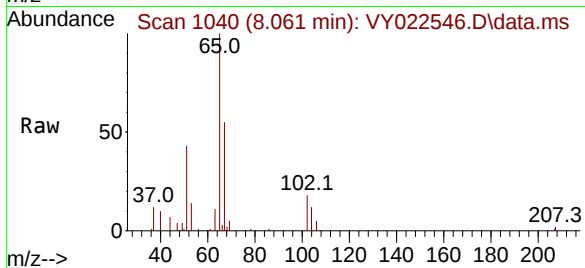
OK-01-060325

Tgt Ion: 65 Resp: 12528

Ion Ratio Lower Upper

65 100

67 54.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022546.D

Acq: 04 Jun 2025 13:26

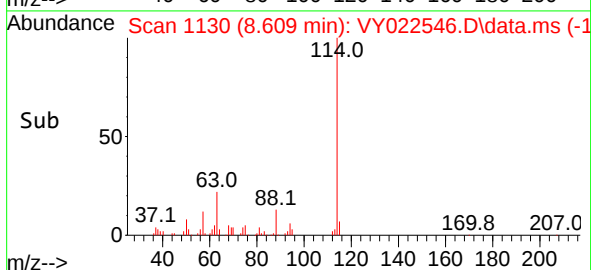
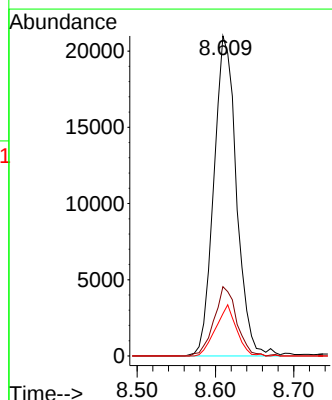
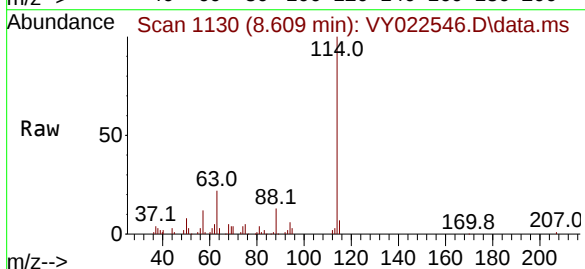
Tgt Ion: 114 Resp: 42301

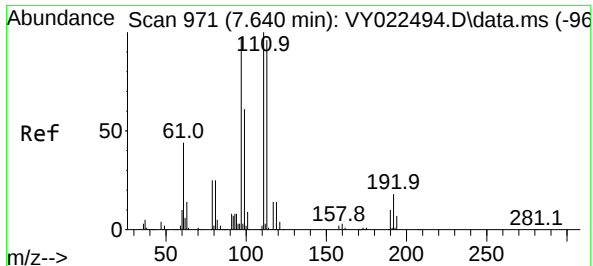
Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.8

88 13.2 0.0 27.8

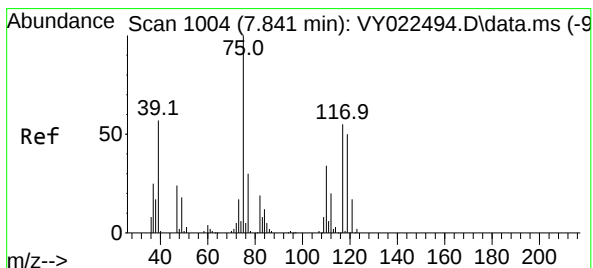
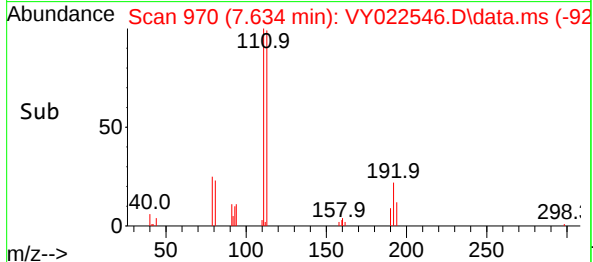
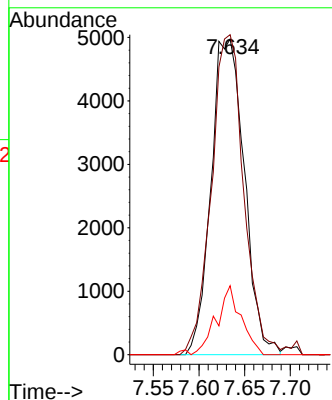
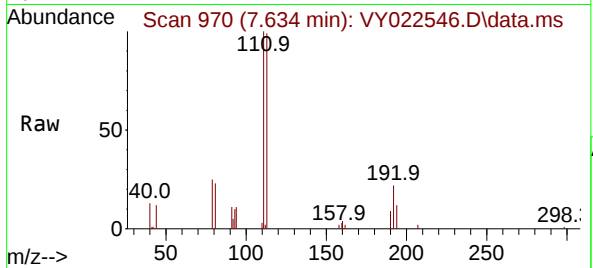




#35
Dibromofluoromethane
Concen: 49.840 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

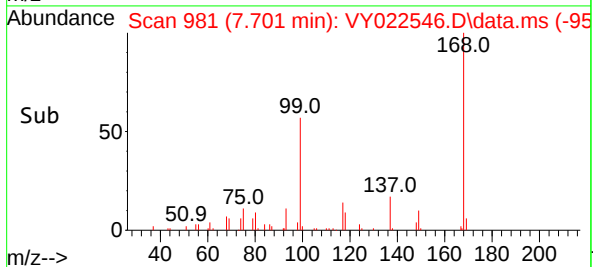
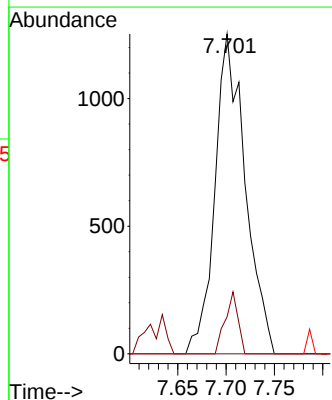
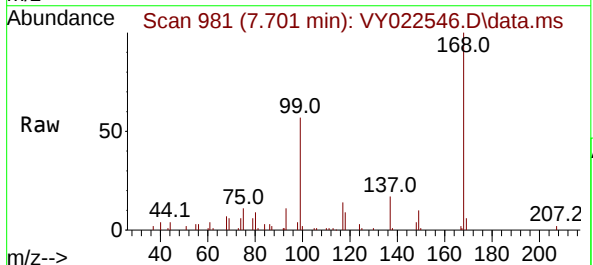
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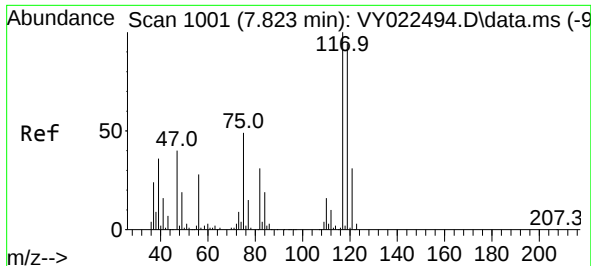
Tgt Ion:113 Resp: 12584
Ion Ratio Lower Upper
113 100
111 98.5 81.1 121.7
192 16.1 14.2 21.2



#36
1,1-Dichloropropene
Concen: 6.647 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 75 Resp: 2724
Ion Ratio Lower Upper
75 100
110 8.1 16.9 50.7#
77 0.0 24.8 37.2#

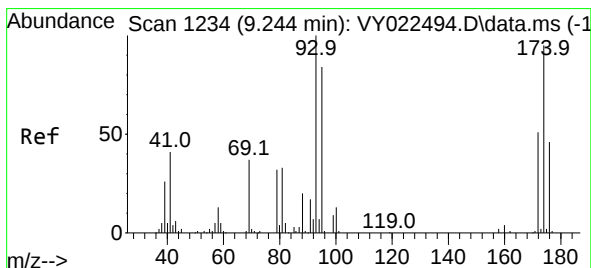
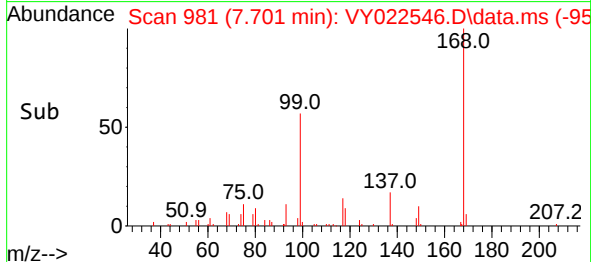
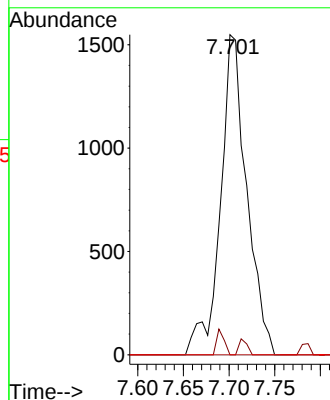
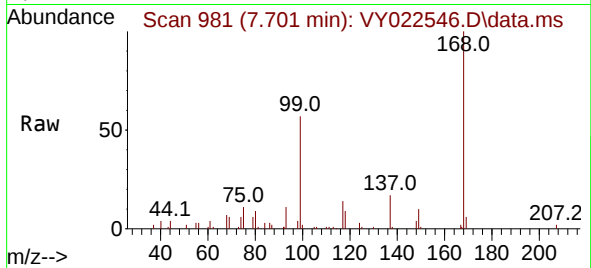




#38
Carbon Tetrachloride
Concen: 7.377 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

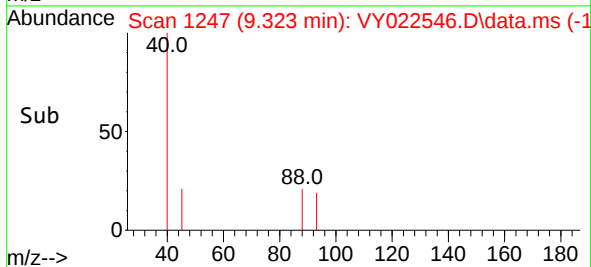
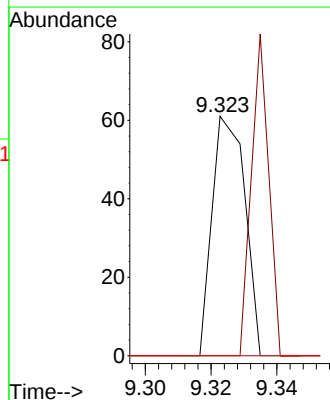
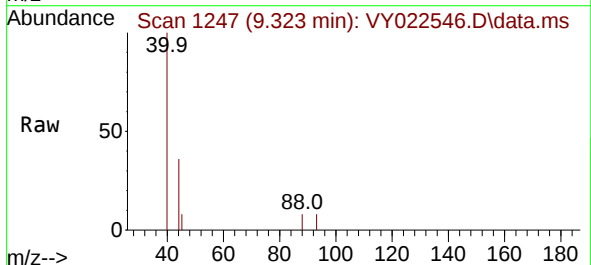
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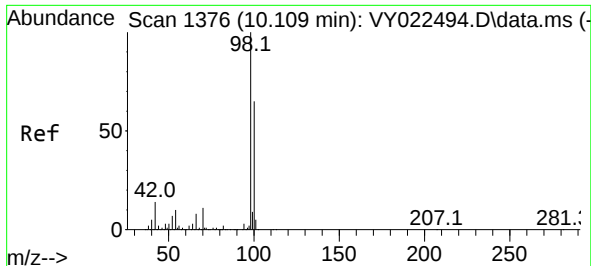
Tgt Ion:117 Resp: 3101
Ion Ratio Lower Upper
117 100
119 0.0 75.0 112.6#
121 0.0 25.0 37.4#



#49
1,4-Dioxane
Concen: 22.030 ug/l
RT: 9.323 min Scan# 1247
Delta R.T. 0.079 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 71.4 25.4 38.2#
58 0.0 54.9 82.3#

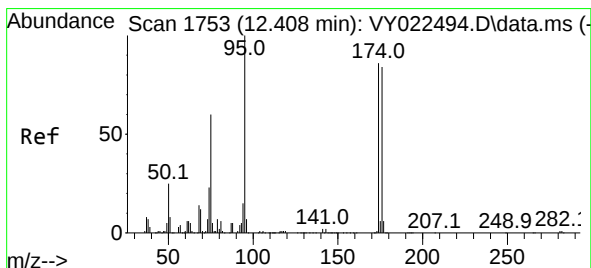
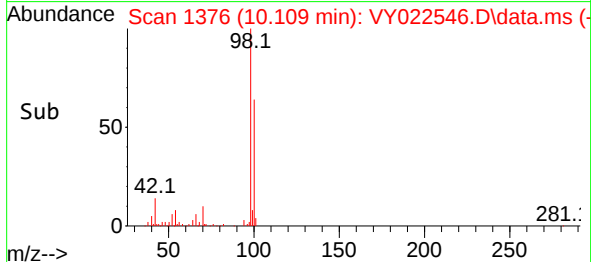
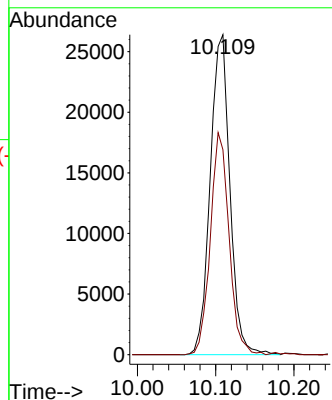
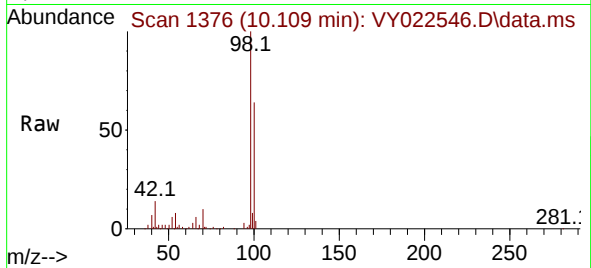




#50
Toluene-d8
Concen: 45.137 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

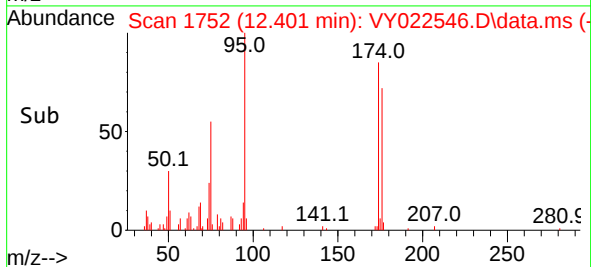
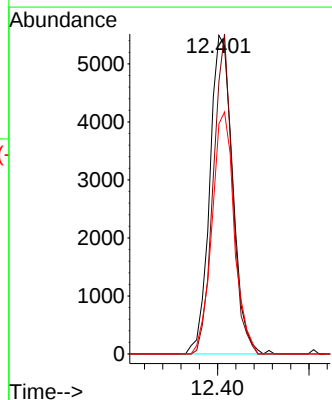
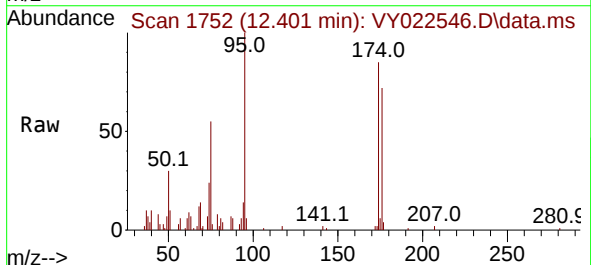
Instrument :
MSVOA_Y
ClientSampleId :
OK-01-060325

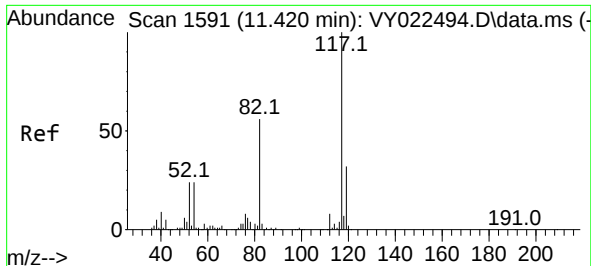
Tgt Ion: 98 Resp: 46049
Ion Ratio Lower Upper
98 100
100 66.0 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 31.460 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 95 Resp: 9563
Ion Ratio Lower Upper
95 100
174 84.0 0.0 170.0
176 73.9 0.0 166.2

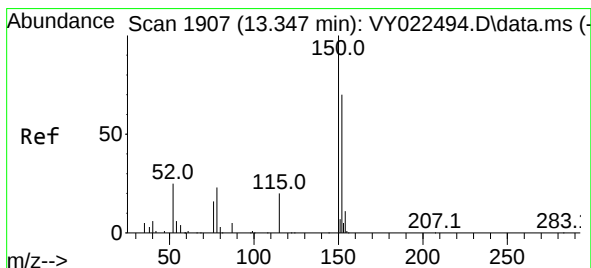
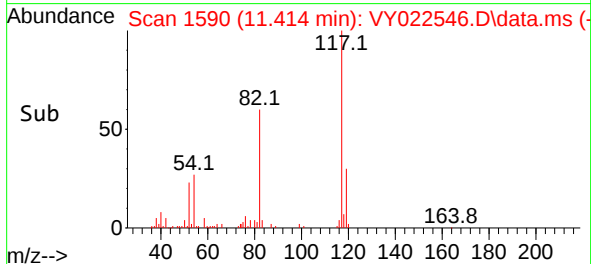
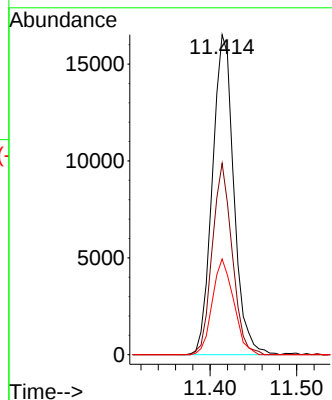
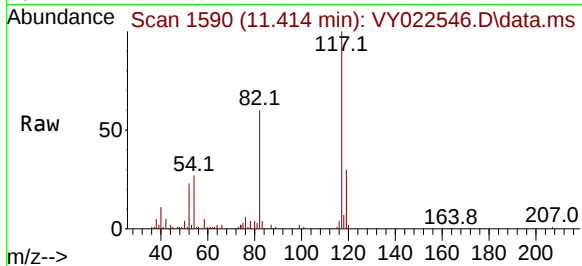




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

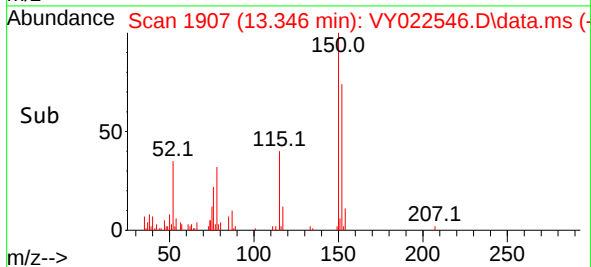
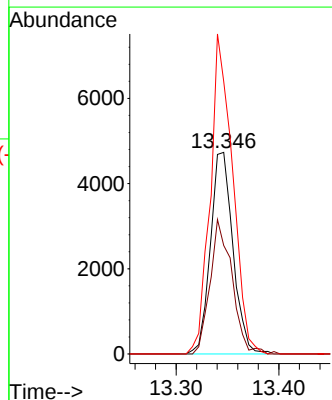
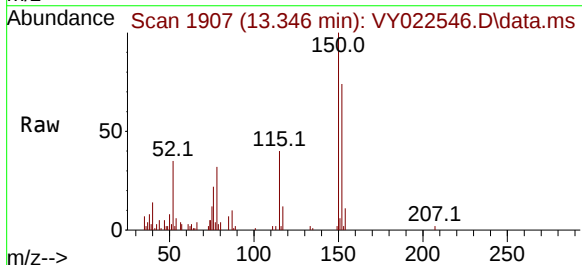
Instrument :
MSVOA_Y
ClientSampleId :
OK-01-060325

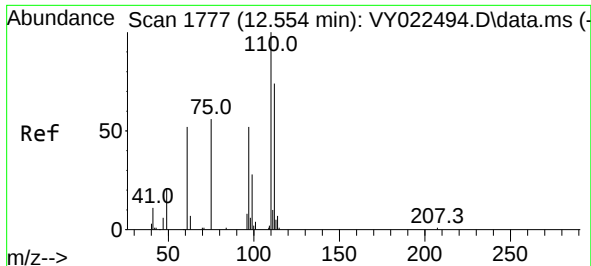
Tgt Ion:	117	Resp:	28413
Ion	Ratio	Lower	Upper
117	100		
82	59.8	44.6	66.8
119	29.9	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion:	152	Resp:	7204
Ion	Ratio	Lower	Upper
152	100		
115	65.0	28.9	86.7
150	156.9	0.0	349.6

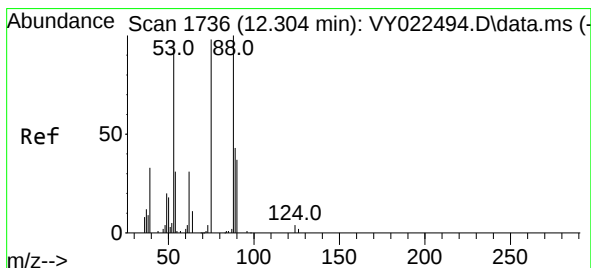
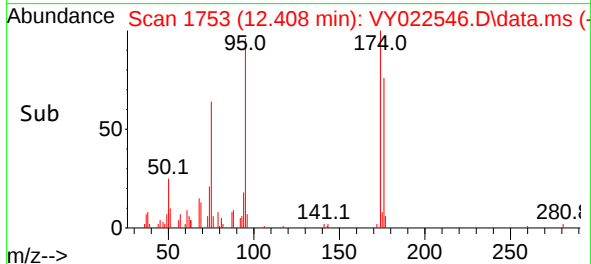
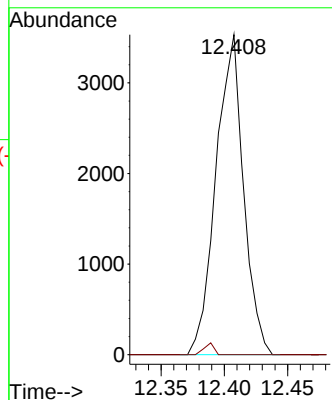
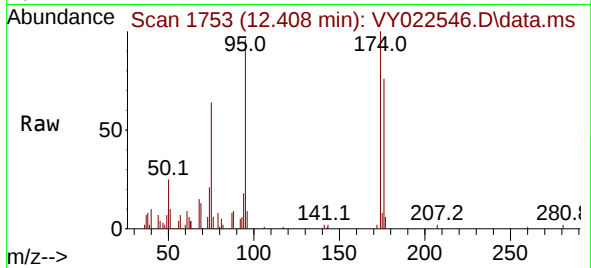




#76
1,2,3-Trichloropropane
Concen: 64.841 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.147 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

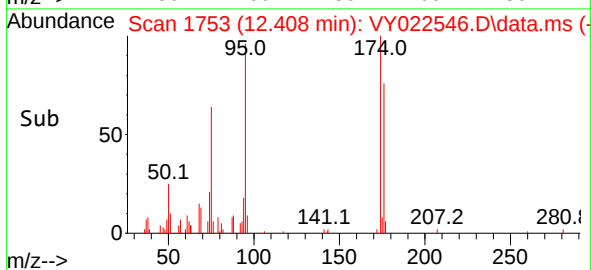
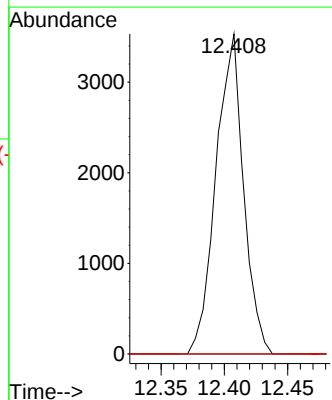
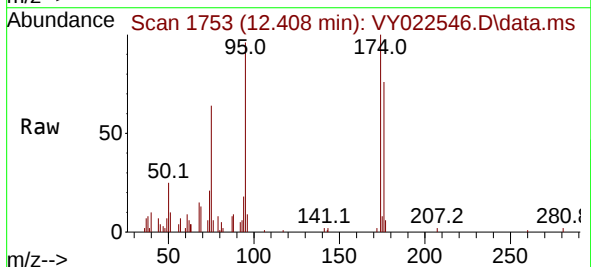
Instrument :
MSVOA_Y
ClientSampleId :
OK-01-060325

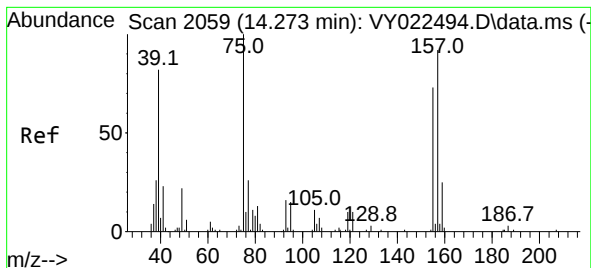
Tgt Ion: 75 Resp: 5344
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 156.588 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.103 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 75 Resp: 5344
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 35.7 53.5#

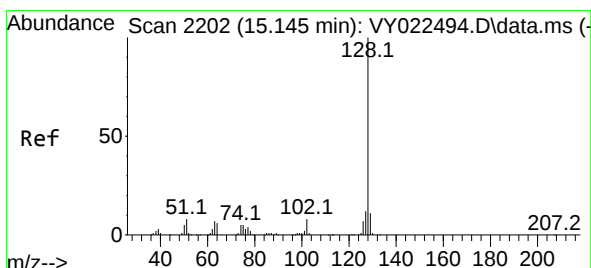
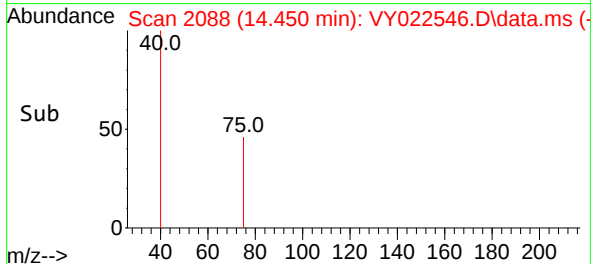
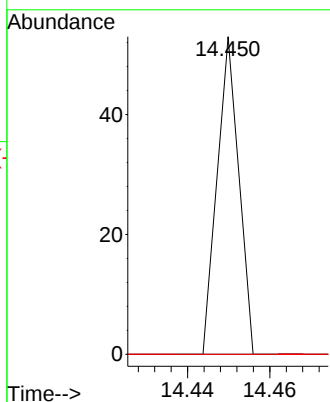
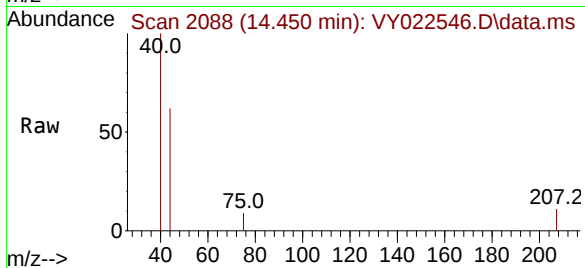




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.344 ug/l
RT: 14.450 min Scan# 2059
Delta R.T. 0.177 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
OK-01-060325

Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
155 0.0 39.9 119.6#
157 0.0 54.0 162.0#



#95
Naphthalene
Concen: 1.251 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.006 min
Lab File: VY022546.D
Acq: 04 Jun 2025 13:26

Tgt Ion: 128 Resp: 281
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.9 13.3#

