

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
 Data File : VY022510.D
 Acq On : 02 Jun 2025 19:31
 Operator : SY/MD
 Sample : Q2161-01RE
 Misc : 6.00g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 BFB

Quant Time: Jun 03 04:10:41 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)

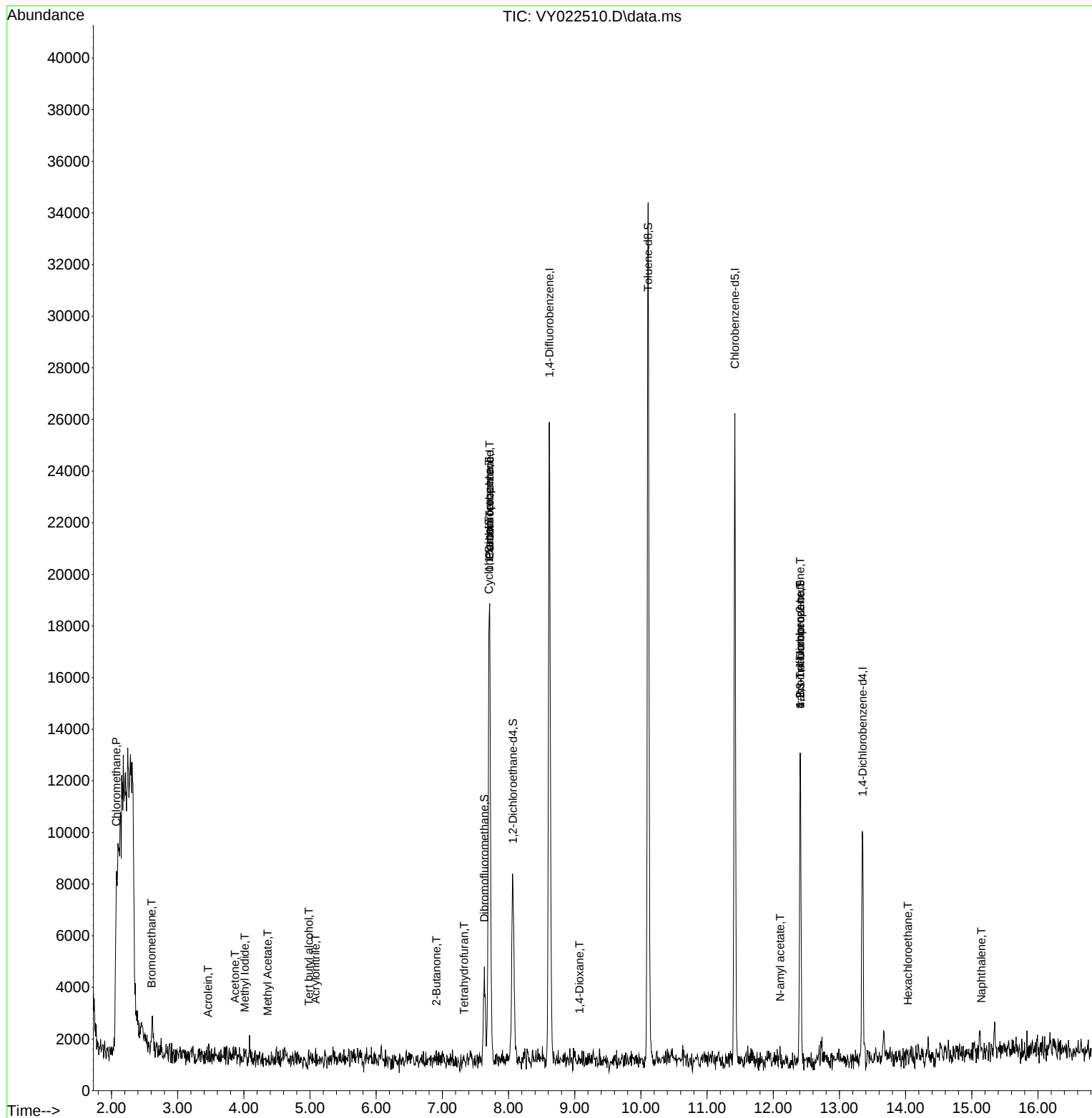
Internal Standards						
1) Pentafluorobenzene	7.713	168	13361	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	19969	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	11738	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	2342	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	5802	38.826	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	77.660%		
35) Dibromofluoromethane	7.634	113	2487	20.866	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	41.740%#		
50) Toluene-d8	10.109	98	21085	43.780	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	87.560%		
62) 4-Bromofluorobenzene	12.408	95	3274	22.816	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	45.640%		
Target Compounds						Qvalue
3) Chloromethane	2.074	50	661	1.870	ug/l #	85
5) Bromomethane	2.605	94	501	1.275	ug/l #	51
10) Methyl Iodide	4.013	142	446	2.812	ug/l #	51
11) Tert butyl alcohol	4.982	59	36	3.373	ug/l #	1
13) Acrolein	3.458	56	45	3.383	ug/l #	14
15) Acrylonitrile	5.086	53	57	1.717	ug/l #	17
16) Acetone	3.867	43	564	18.584	ug/l #	45
18) Methyl Acetate	4.360	43	90	1.001	ug/l #	51
25) 2-Butanone	6.909	43	94	2.147	ug/l #	46
29) Tetrahydrofuran	7.329	42	104	3.684	ug/l #	31
31) Cyclohexane	7.701	56	524	1.825	ug/l #	32
36) 1,1-Dichloropropene	7.707	75	1454	7.516	ug/l #	42
38) Carbon Tetrachloride	7.713	117	1588	8.002	ug/l #	13
49) 1,4-Dioxane	9.073	88	49	54.445	ug/l #	24
74) N-amyl acetate	12.103	43	85	1.752	ug/l #	34
76) 1,2,3-Trichloropropane	12.408	75	2237	83.491	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	2237	201.625	ug/l #	10
90) Hexachloroethane	14.035	117	38	1.141	ug/l #	16
95) Naphthalene	15.145	128	178	2.437	ug/l #	69

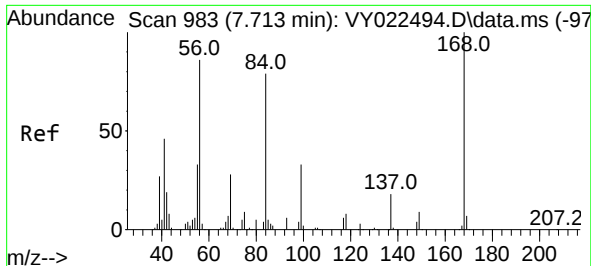
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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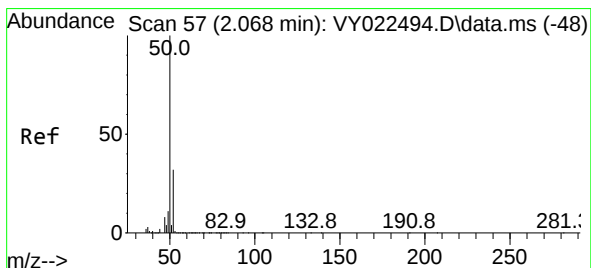
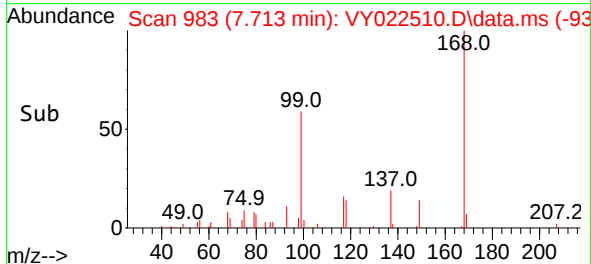
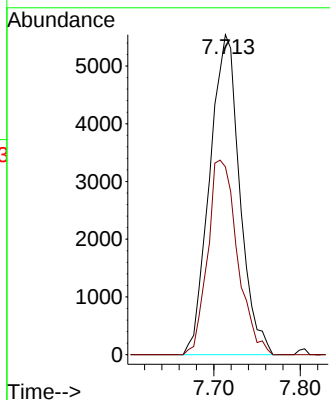
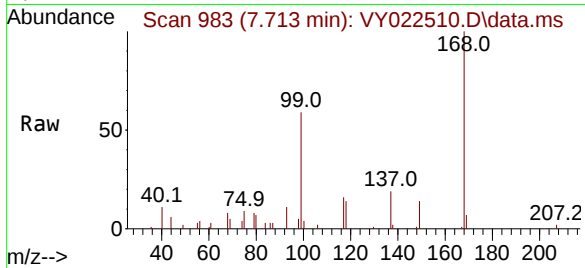




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

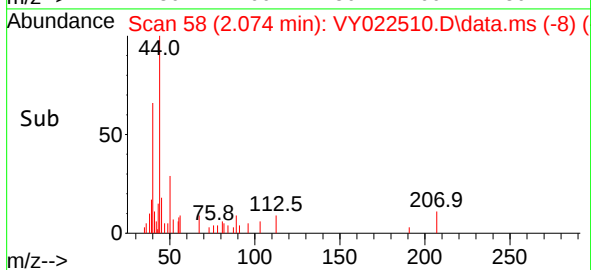
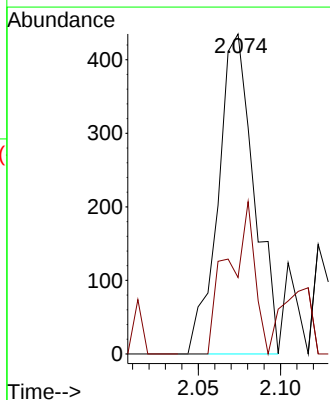
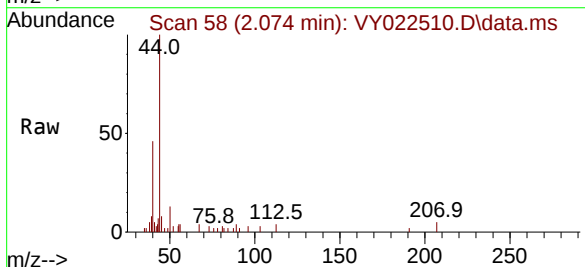
Instrument :
MSVOA_Y
ClientSampleId :
BFB

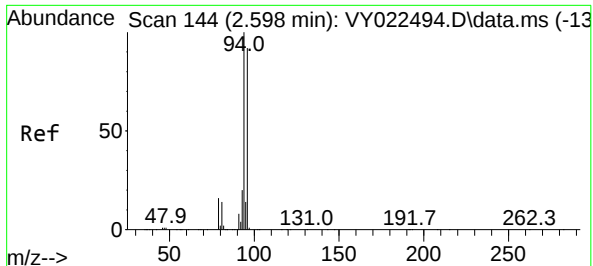
Tgt Ion:168 Resp: 13361
Ion Ratio Lower Upper
168 100
99 58.7 44.3 66.5



#3
Chloromethane
Concen: 1.870 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 50 Resp: 661
Ion Ratio Lower Upper
50 100
52 23.9 26.0 39.0

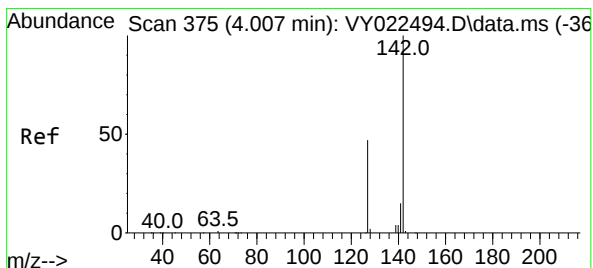
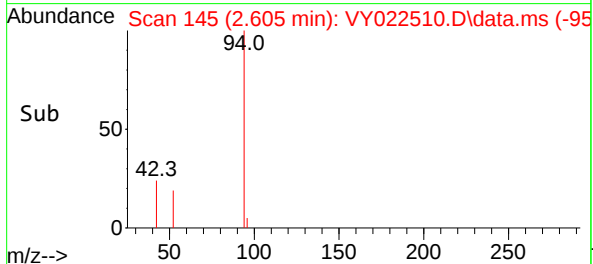
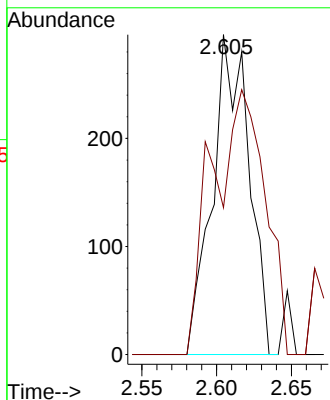
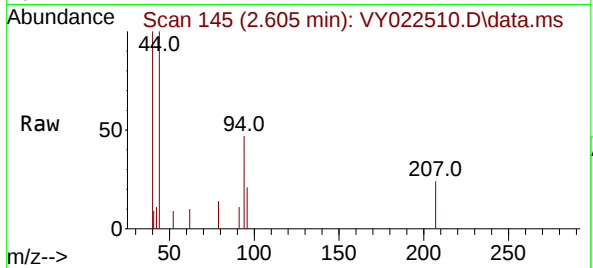




#5
Bromomethane
Concen: 1.275 ug/l
RT: 2.605 min Scan# 144
Delta R.T. 0.006 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

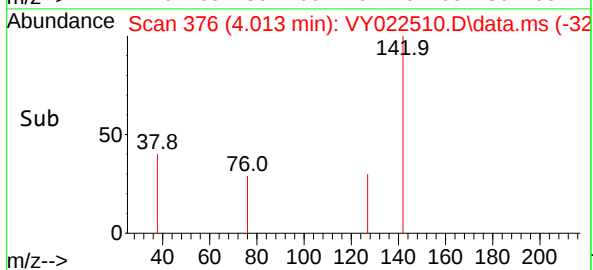
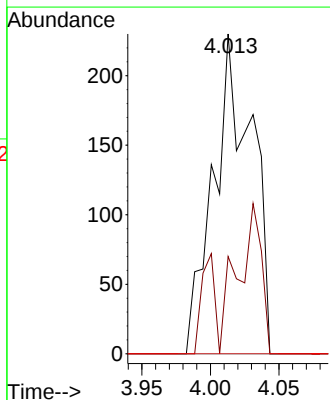
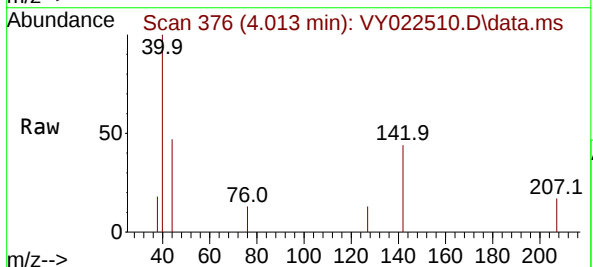
Instrument :
MSVOA_Y
ClientSampleId :
BFB

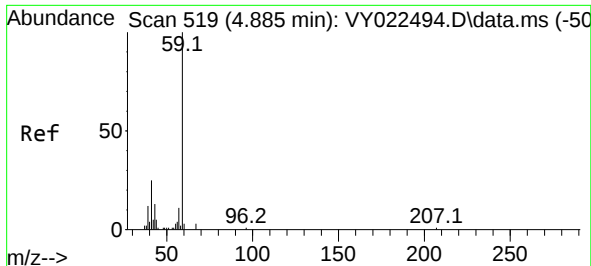
Tgt Ion: 94 Resp: 501
Ion Ratio Lower Upper
94 100
96 45.9 74.0 111.0#



#10
Methyl Iodide
Concen: 2.812 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 142 Resp: 446
Ion Ratio Lower Upper
142 100
127 10.8 37.1 55.7#
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 3.373 ug/l

RT: 4.982 min Scan# 51

Delta R.T. 0.098 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

Instrument :

MSVOA_Y

ClientSampleId :

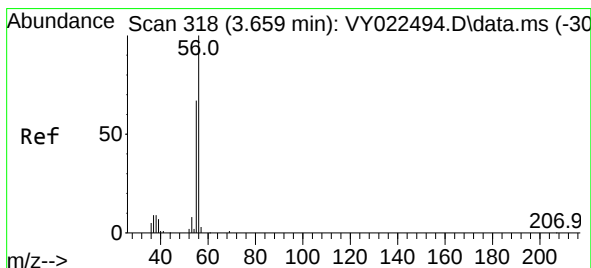
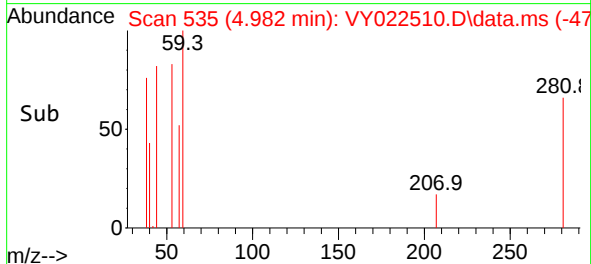
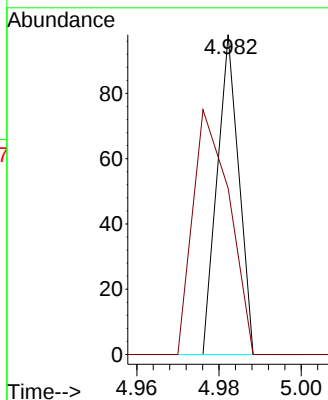
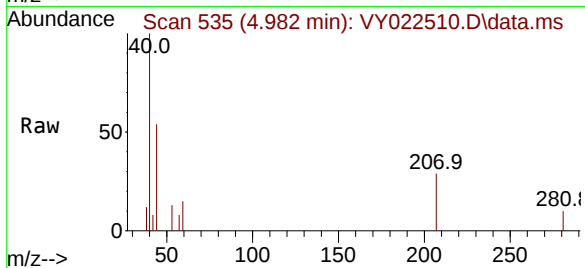
BFB

Tgt Ion: 59 Resp: 36

Ion Ratio Lower Upper

59 100

57 127.8 8.0 12.0#



#13

Acrolein

Concen: 3.383 ug/l

RT: 3.458 min Scan# 285

Delta R.T. -0.201 min

Lab File: VY022510.D

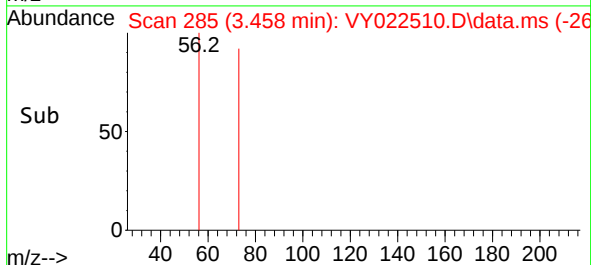
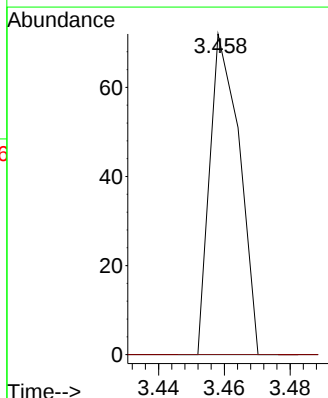
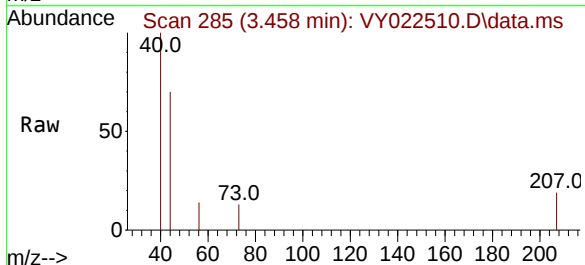
Acq: 02 Jun 2025 19:31

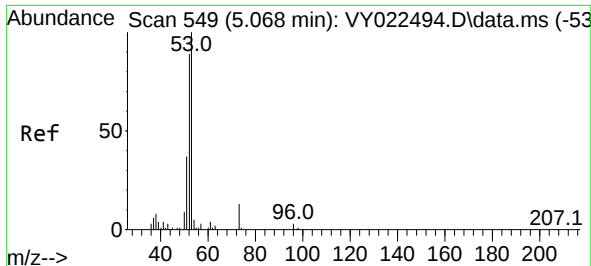
Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.6#

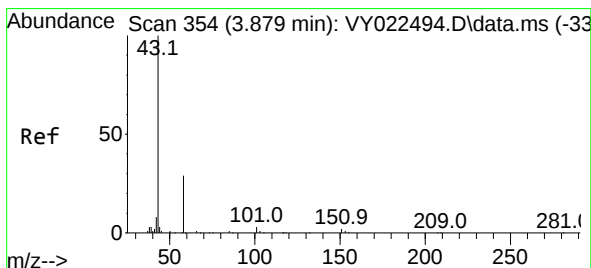
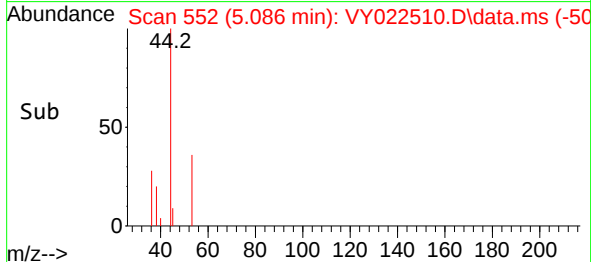
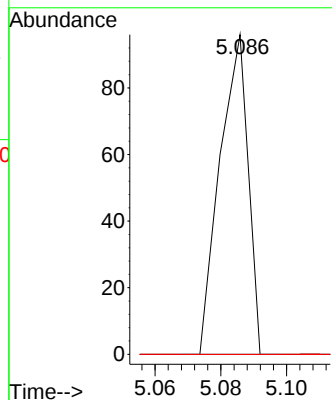
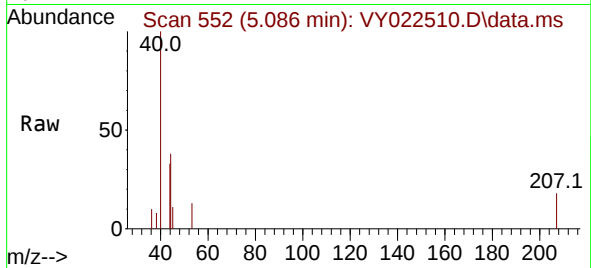




#15
Acrylonitrile
Concen: 1.717 ug/l
RT: 5.086 min Scan# 51
Delta R.T. 0.018 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

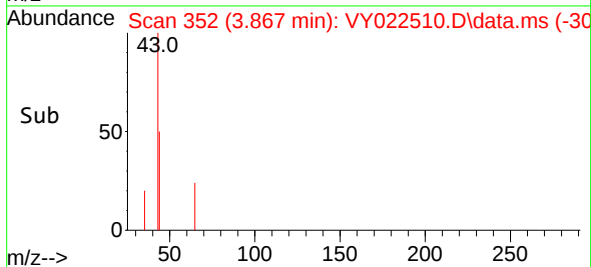
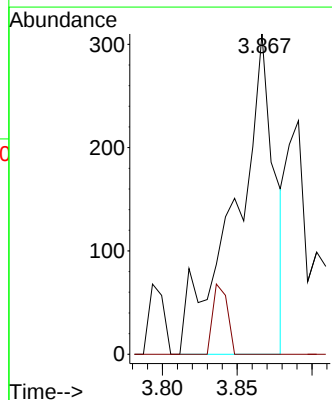
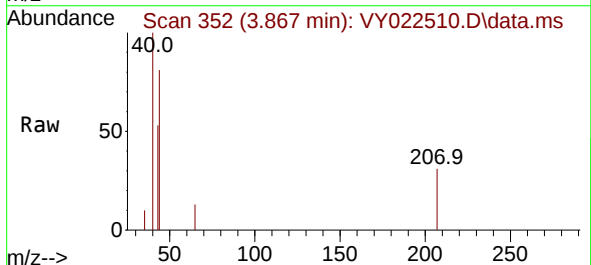
Instrument :
MSVOA_Y
ClientSampleId :
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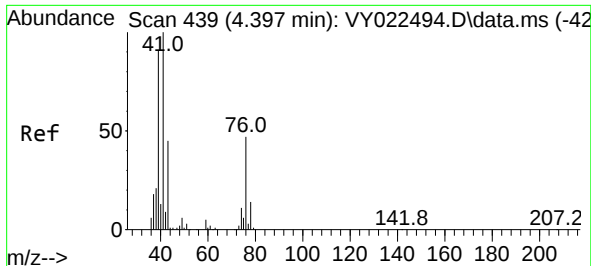
Tgt Ion: 53 Resp: 57
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 0.0 30.1 45.1#



#16
Acetone
Concen: 18.584 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 43 Resp: 564
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#

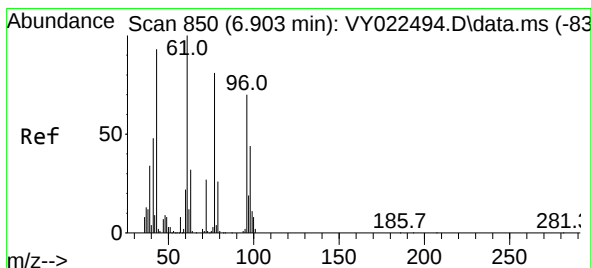
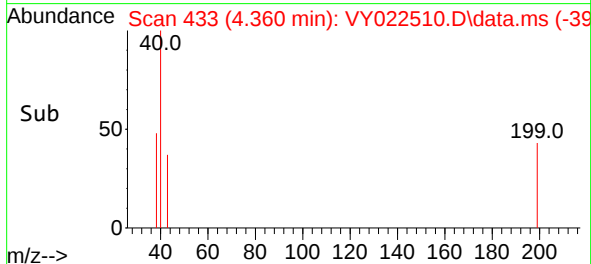
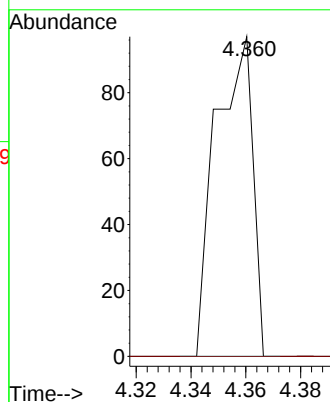
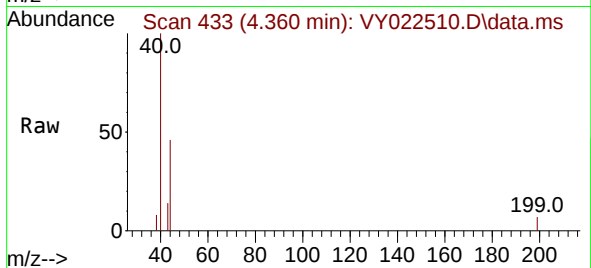




#18
Methyl Acetate
Concen: 1.001 ug/l
RT: 4.360 min Scan# 41
Delta R.T. -0.037 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

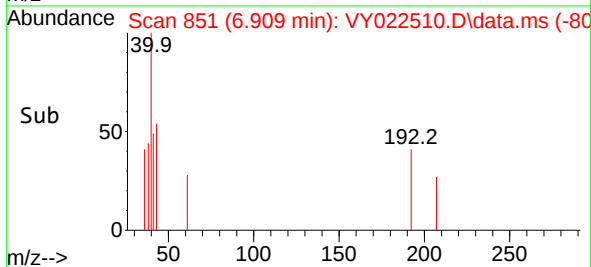
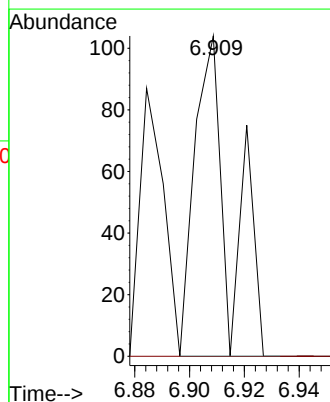
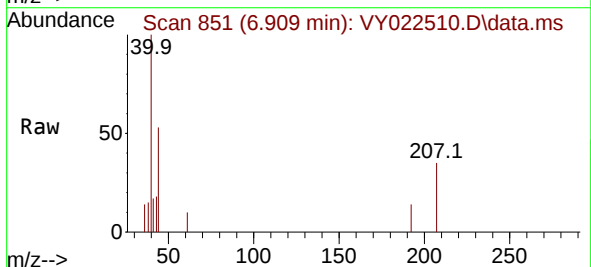
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MSVOA_Y
ClientSampleId :
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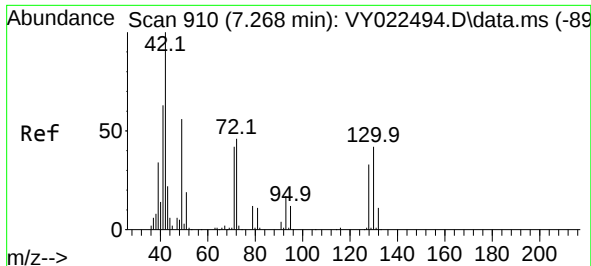
Tgt Ion: 43 Resp: 90
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#25
2-Butanone
Concen: 2.147 ug/l
RT: 6.909 min Scan# 851
Delta R.T. 0.006 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
72 0.0 22.9 34.3#





#29

Tetrahydrofuran

Concen: 3.684 ug/l

RT: 7.329 min Scan# 910

Delta R.T. 0.061 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

Instrument :

MSVOA_Y

ClientSampleId :

BFB

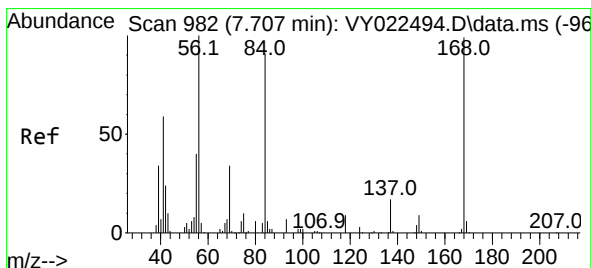
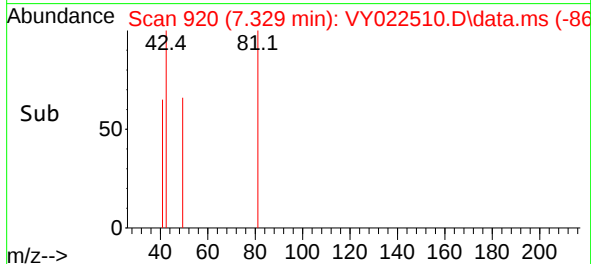
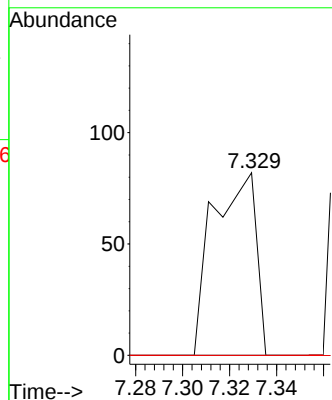
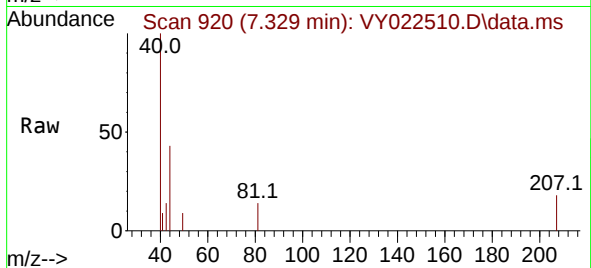
Tgt Ion: 42 Resp: 104

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.2#

71 0.0 34.2 51.2#



#31

Cyclohexane

Concen: 1.825 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.006 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

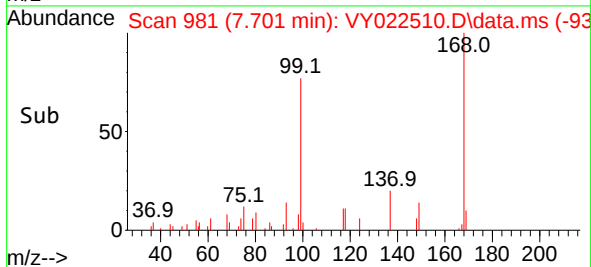
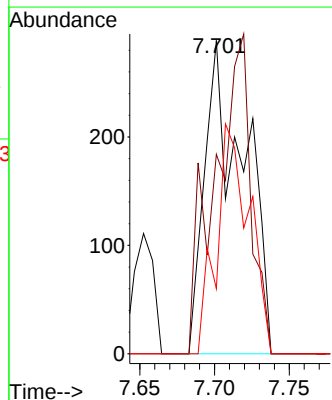
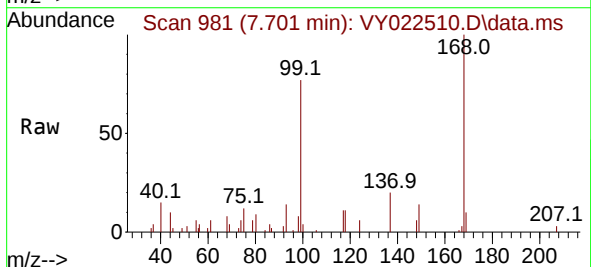
Tgt Ion: 56 Resp: 524

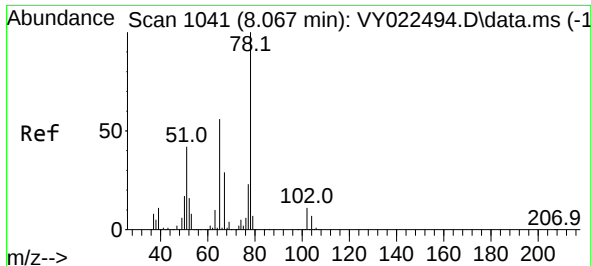
Ion Ratio Lower Upper

56 100

69 63.7 27.0 40.6#

84 20.8 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 38.826 ug/l

RT: 8.067 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

Instrument :

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ClientSampleId :

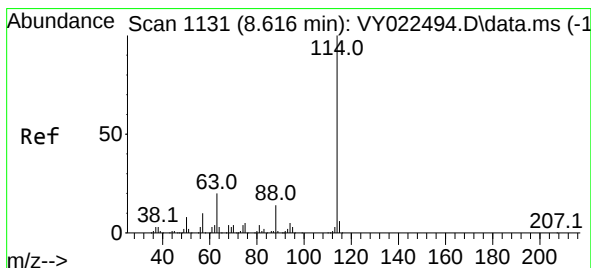
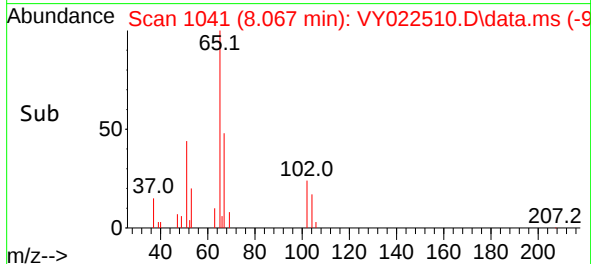
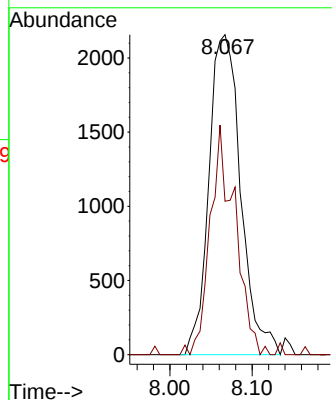
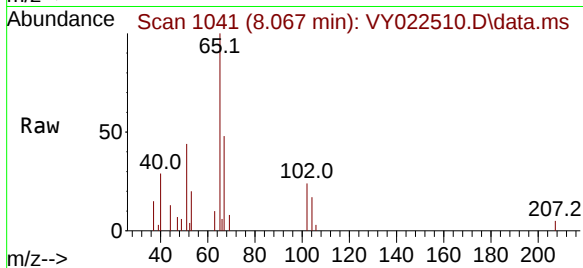
BFB

Tgt Ion: 65 Resp: 5802

Ion Ratio Lower Upper

65 100

67 56.3 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

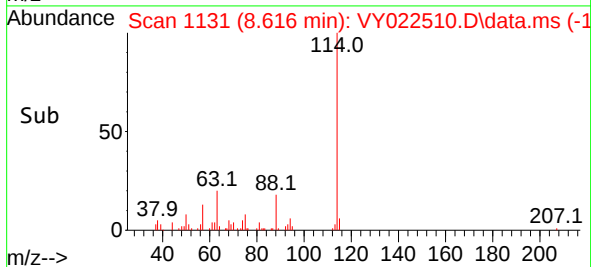
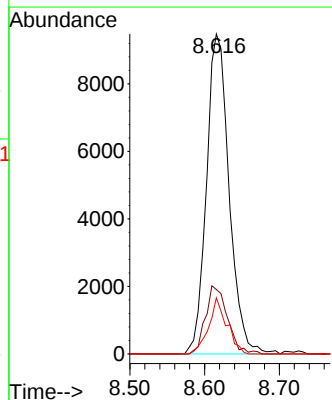
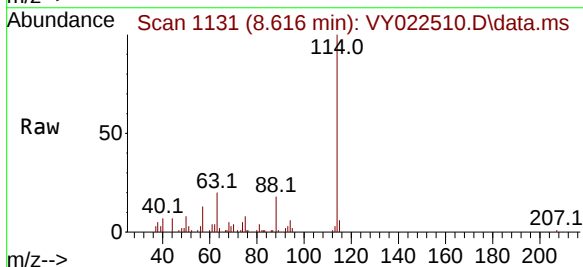
Tgt Ion: 114 Resp: 19969

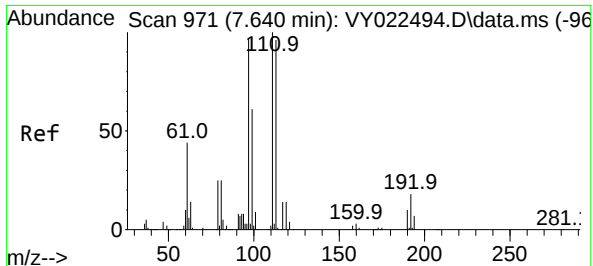
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

88 17.6 0.0 27.8





#35

Dibromofluoromethane

Concen: 20.866 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

Instrument :

MSVOA_Y

ClientSampleId :

BFB

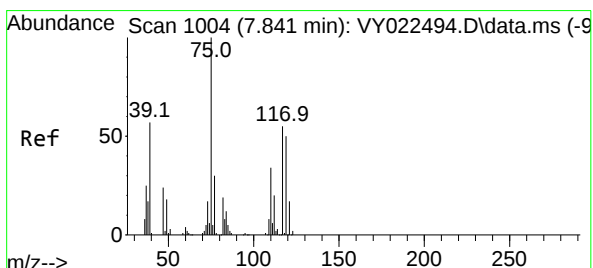
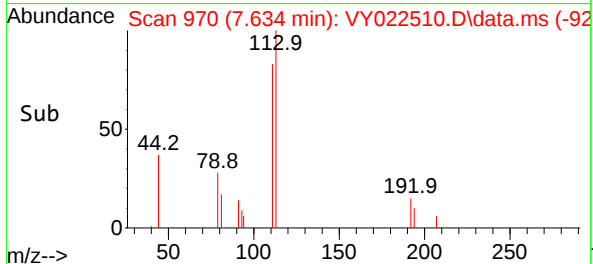
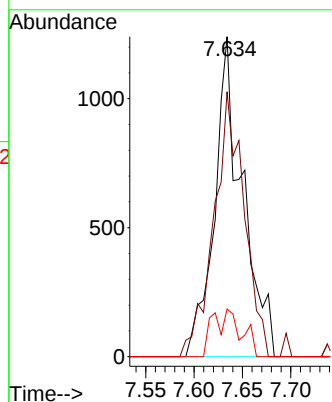
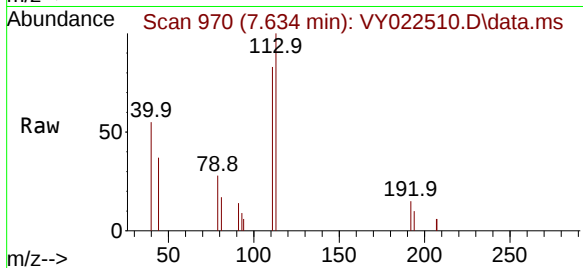
Tgt Ion:113 Resp: 2487

Ion Ratio Lower Upper

113 100

111 89.5 81.1 121.7

192 6.0 14.2 21.2#



#36

1,1-Dichloropropene

Concen: 7.516 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

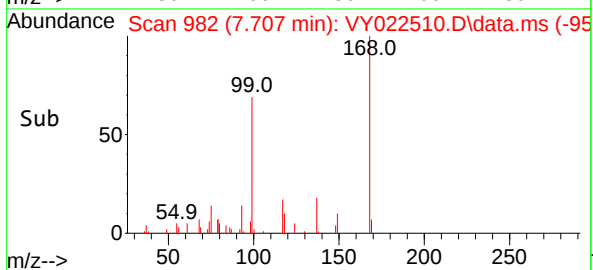
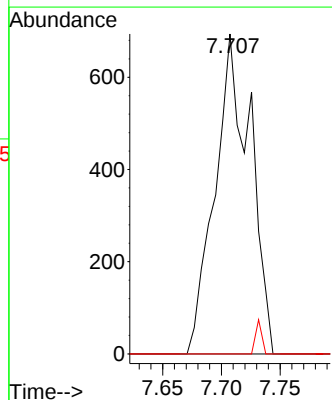
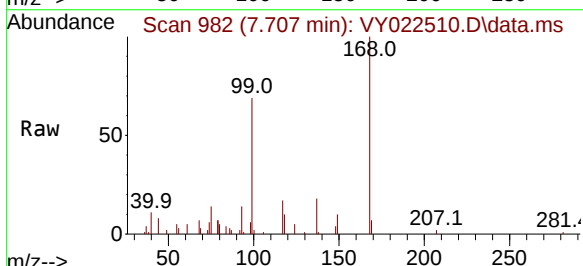
Tgt Ion: 75 Resp: 1454

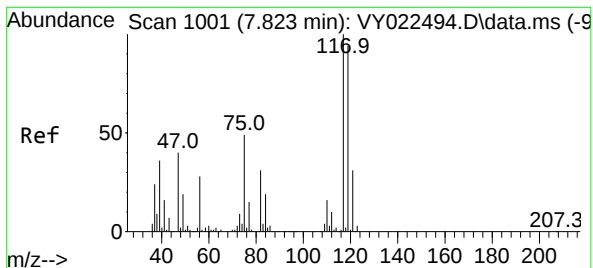
Ion Ratio Lower Upper

75 100

110 0.0 16.9 50.7#

77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 8.002 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.110 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

Instrument :

MSVOA_Y

ClientSampleId :

BFB

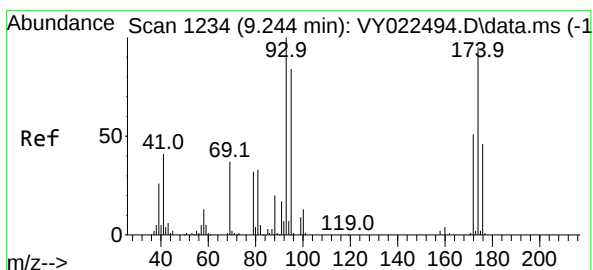
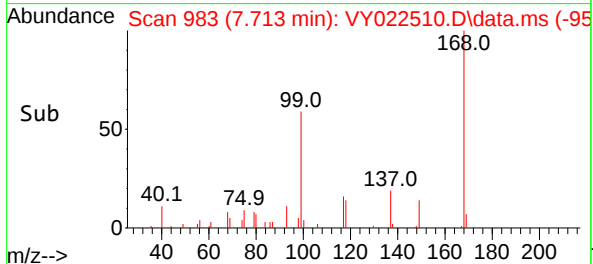
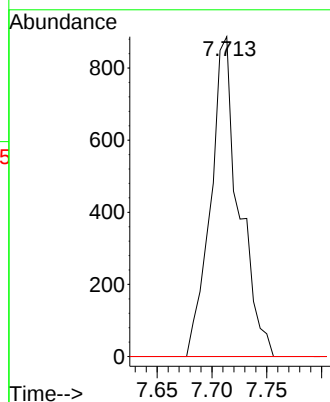
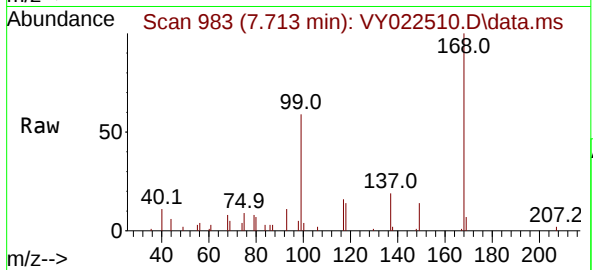
Tgt Ion:117 Resp: 1588

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: 54.445 ug/l

RT: 9.073 min Scan# 1206

Delta R.T. -0.171 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

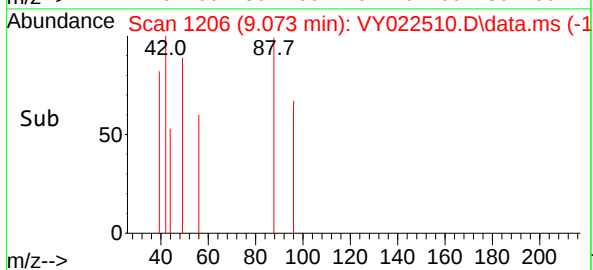
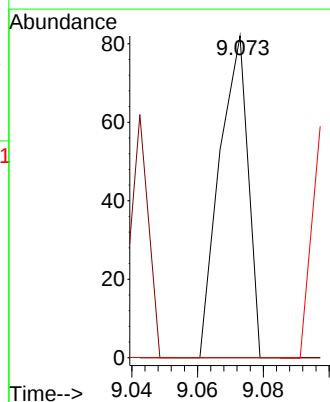
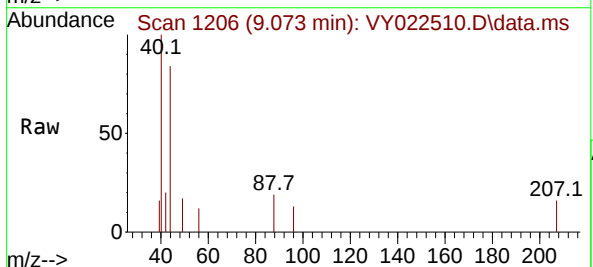
Tgt Ion: 88 Resp: 49

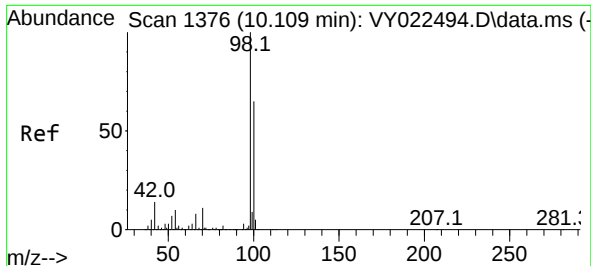
Ion Ratio Lower Upper

88 100

43 0.0 25.4 38.2#

58 0.0 54.9 82.3#

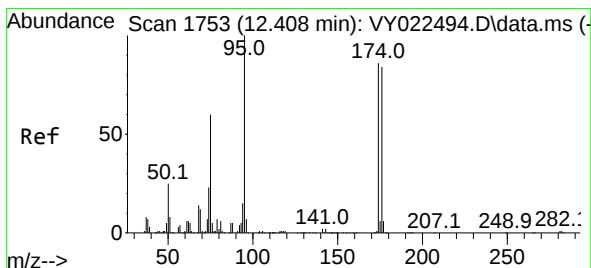
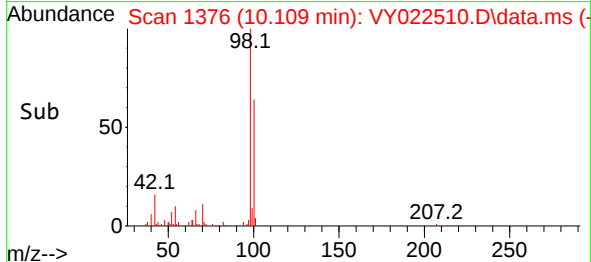
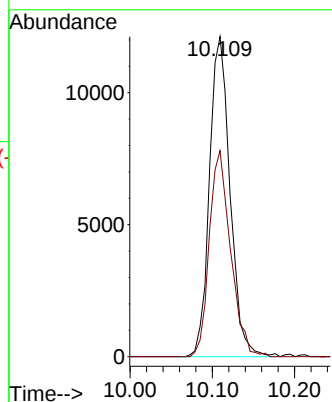
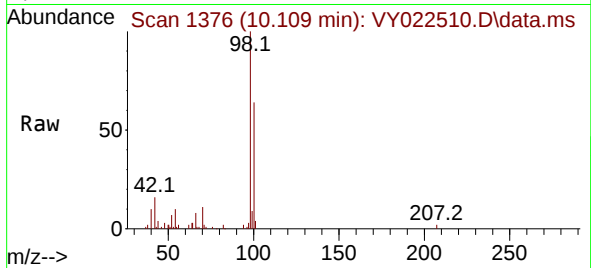




#50
Toluene-d8
Concen: 43.780 ug/l
RT: 10.109 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

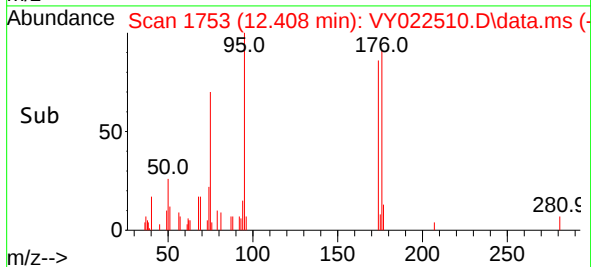
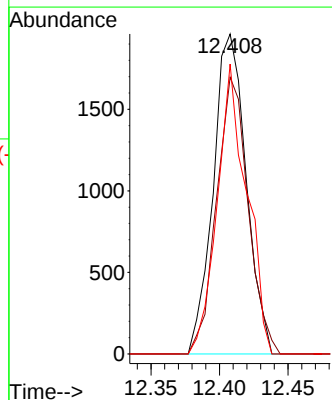
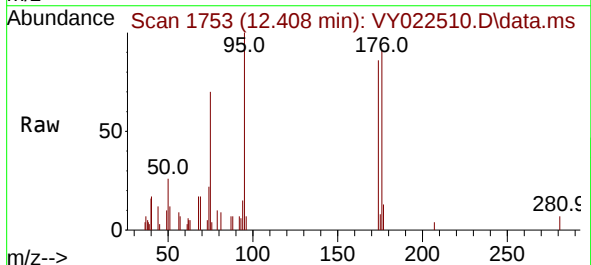
Instrument :
MSVOA_Y
ClientSampleId :
BFB

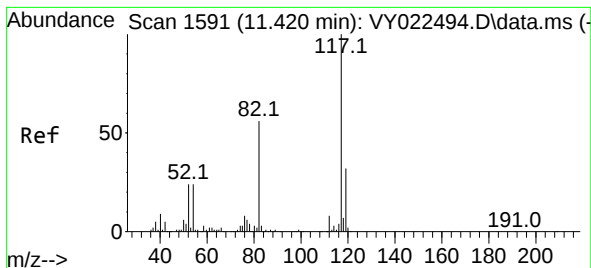
Tgt Ion: 98 Resp: 21085
Ion Ratio Lower Upper
98 100
100 66.5 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 22.816 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 95 Resp: 3274
Ion Ratio Lower Upper
95 100
174 83.1 0.0 170.0
176 81.3 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11738

Delta R.T. -0.000 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

Instrument :

MSVOA_Y

ClientSampleId :

BFB

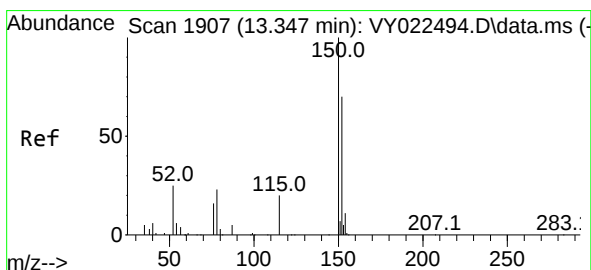
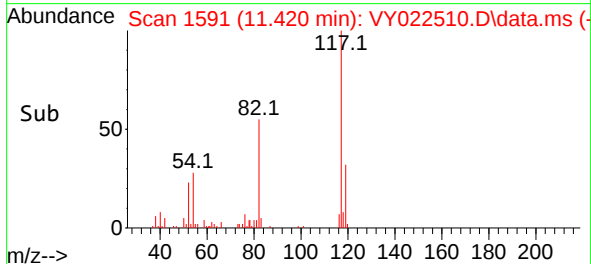
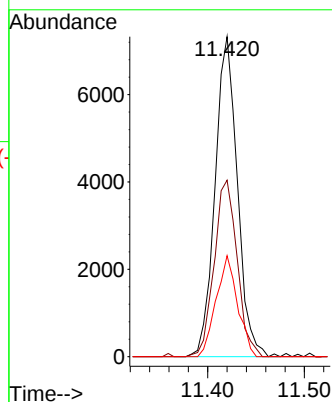
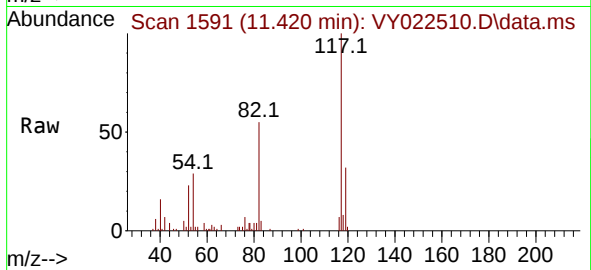
Tgt Ion:117 Resp: 11738

Ion Ratio Lower Upper

117 100

82 55.1 44.6 66.8

119 31.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022510.D

Acq: 02 Jun 2025 19:31

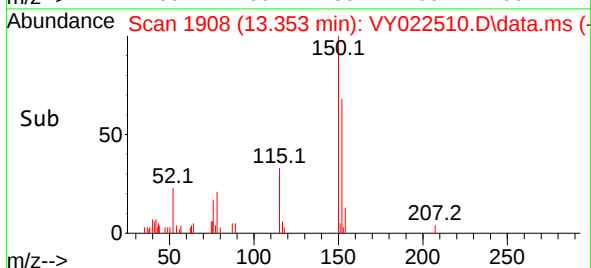
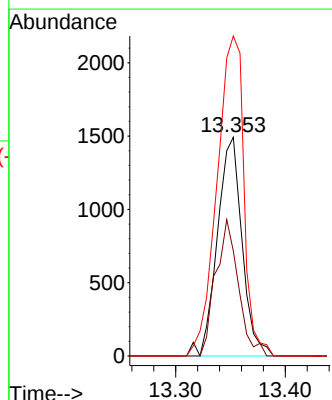
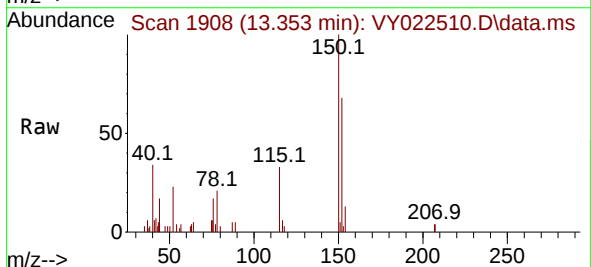
Tgt Ion:152 Resp: 2342

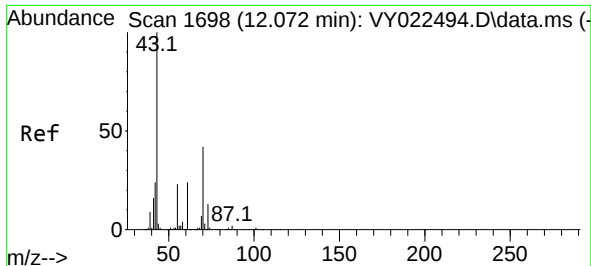
Ion Ratio Lower Upper

152 100

115 57.1 28.9 86.7

150 158.9 0.0 349.6

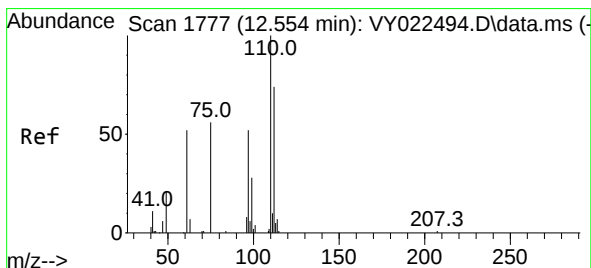
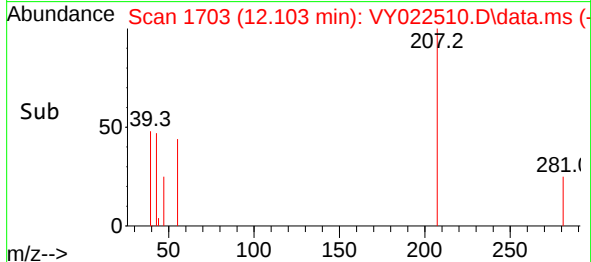
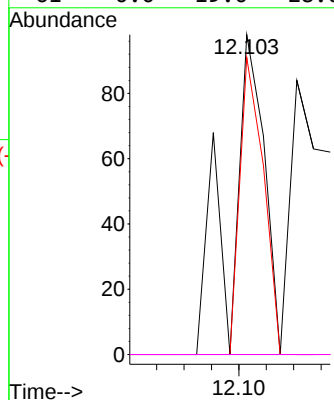
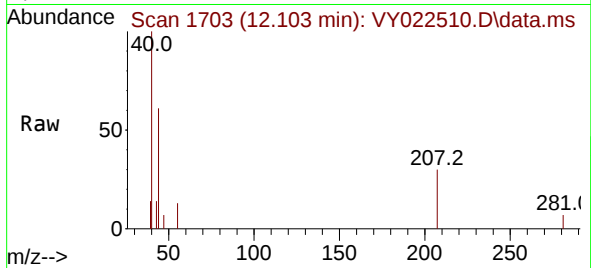




#74
N-amy1 acetate
Concen: 1.752 ug/l
RT: 12.103 min Scan# 1703
Delta R.T. 0.030 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

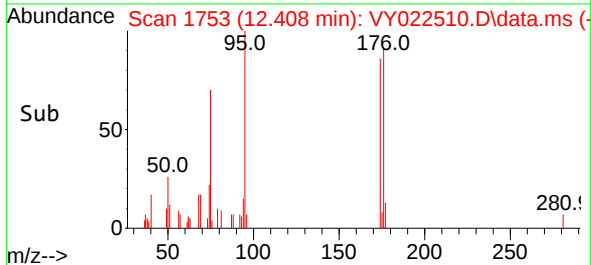
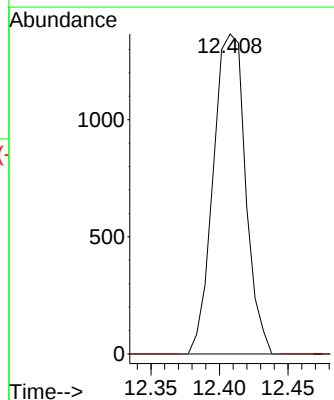
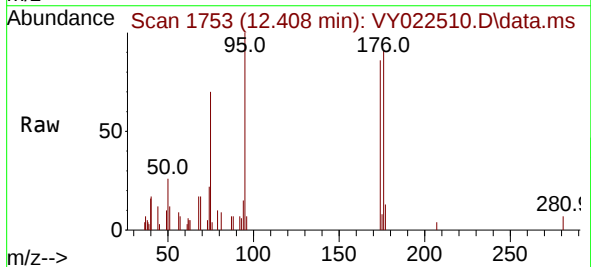
Instrument :
MSVOA_Y
ClientSampleId :
BFB

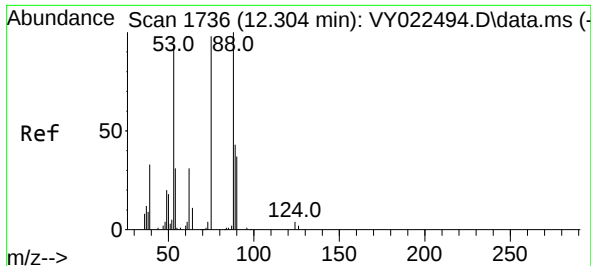
Tgt Ion: 43	Resp: 85
Ion Ratio	Lower Upper
43 100	
70 0.0	34.2 51.2#
55 63.5	18.2 27.4#
61 0.0	19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 83.491 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 75	Resp: 2237
Ion Ratio	Lower Upper
75 100	
77 0.0	0.0 0.0

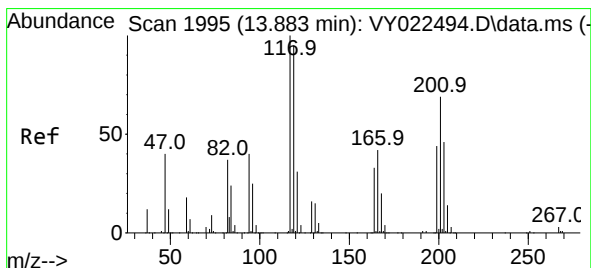
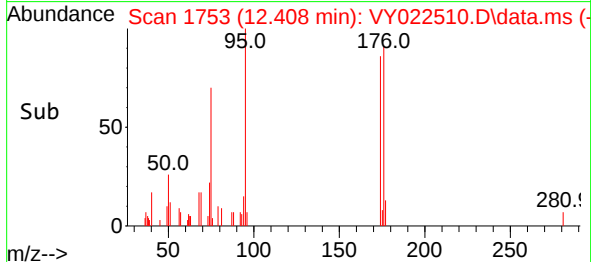
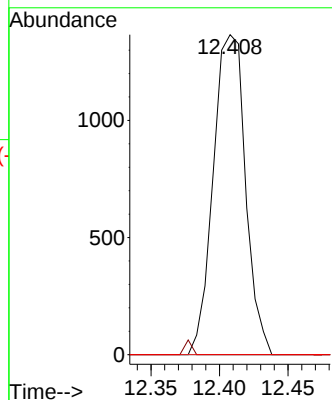
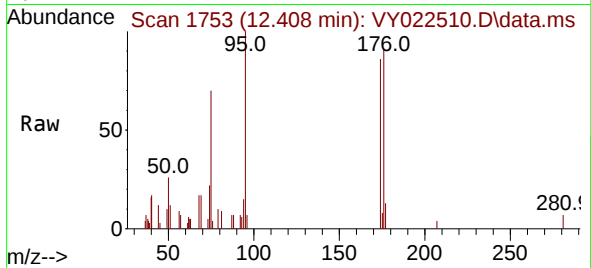




#81
trans-1,4-Dichloro-2-butene
Concen: 201.625 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

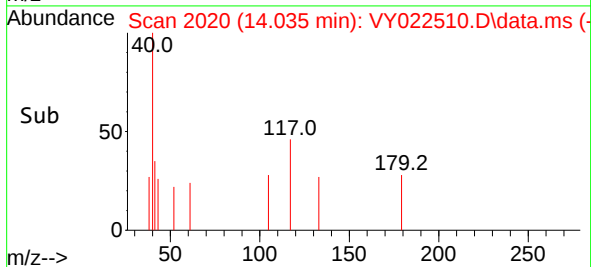
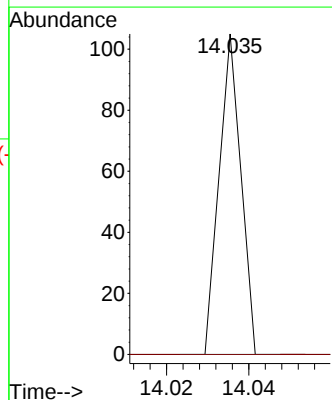
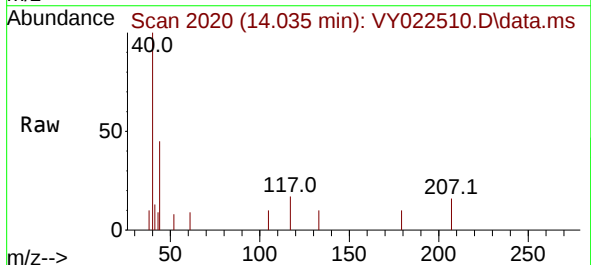
Instrument :
MSVOA_Y
ClientSampleId :
BFB

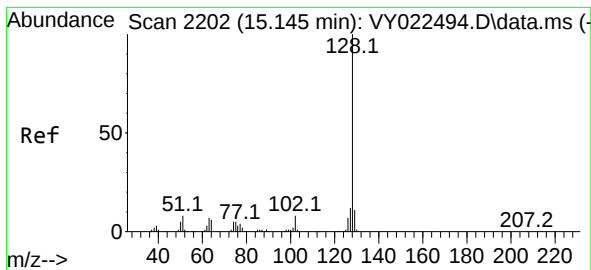
Tgt Ion: 75 Resp: 2237
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 35.7 53.5#



#90
Hexachloroethane
Concen: 1.141 ug/l
RT: 14.035 min Scan# 2020
Delta R.T. 0.152 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Tgt Ion: 117 Resp: 38
Ion Ratio Lower Upper
117 100
201 0.0 34.0 102.0#





#95
Naphthalene
Concen: 2.437 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022510.D
Acq: 02 Jun 2025 19:31

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Tgt Ion:128 Resp: 178
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.9 13.3#

