

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091124\
 Data File : VY019507.D
 Acq On : 11 Sep 2024 14:32
 Operator : SY/MD
 Sample : P3916-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 12 01:32:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

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

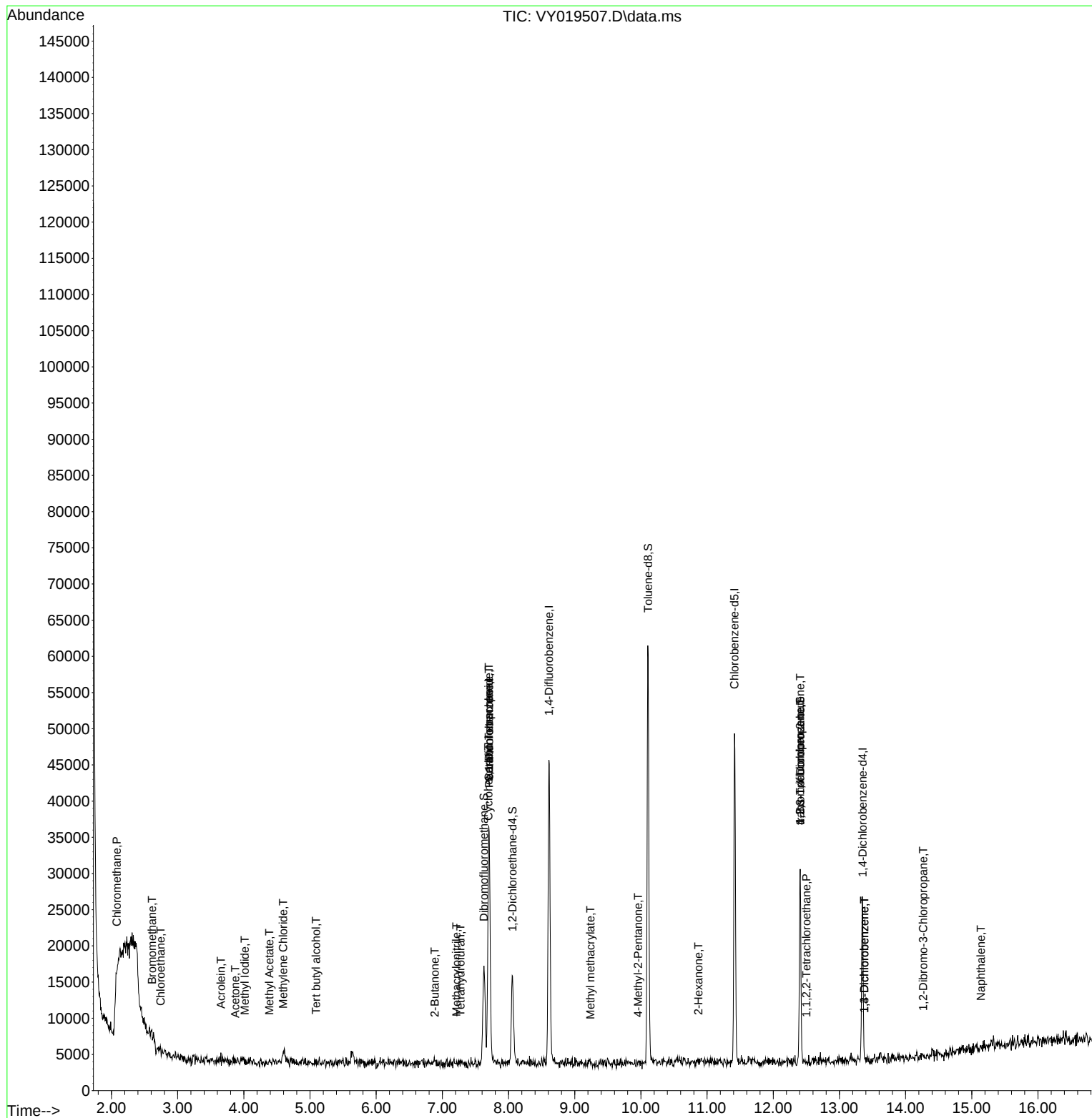
Internal Standards						
1) Pentafluorobenzene	7.707	168	24904	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	36689	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	24593	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	5697	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	9939	43.100	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.200%
35) Dibromofluoromethane	7.628	113	10345	49.731	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.460%
50) Toluene-d8	10.109	98	38187	49.631	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.260%
62) 4-Bromofluorobenzene	12.407	95	8587	29.025	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	58.060%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.989	85	51	Below Cal	#	43
3) Chloromethane	2.080	50	440	2.135	ug/l	90
5) Bromomethane	2.610	94	238	1.739	ug/l #	3
6) Chloroethane	2.745	64	157	1.078	ug/l #	42
10) Methyl Iodide	4.013	142	395	1.341	ug/l #	65
11) Tert butyl alcohol	5.092	59	27	1.450	ug/l #	1
13) Acrolein	3.653	56	238	12.960	ug/l #	42
16) Acetone	3.872	43	776	14.125	ug/l	96
18) Methyl Acetate	4.385	43	242	1.623	ug/l #	46
20) Methylene Chloride	4.592	84	717	2.862	ug/l #	63
25) 2-Butanone	6.884	43	148	1.894	ug/l #	41
29) Tetrahydrofuran	7.274	42	459	9.662	ug/l #	26
31) Cyclohexane	7.695	56	982	2.379	ug/l #	63
36) 1,1-Dichloropropene	7.701	75	2174	7.680	ug/l #	53
38) Carbon Tetrachloride	7.701	117	2629	8.236	ug/l #	21
41) Methacrylonitrile	7.213	41	221	2.614	ug/l #	20
48) Methyl methacrylate	9.237	41	455	3.162	ug/l #	57
51) 4-Methyl-2-Pentanone	9.957	43	207	1.350	ug/l	94
59) 2-Hexanone	10.871	43	132	1.175	ug/l	65
75) 1,1,2,2-Tetrachloroethane	12.499	83	100	1.363	ug/l #	47
76) 1,2,3-Trichloropropane	12.407	75	4443	83.206	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	4443	159.732	ug/l #	16
87) 1,3-Dichlorobenzene	13.377	146	191	1.072	ug/l	72
88) 1,4-Dichlorobenzene	13.377	146	191	1.081	ug/l	71
92) 1,2-Dibromo-3-Chloropr...	14.267	75	32	2.617	ug/l #	1
95) Naphthalene	15.139	128	465	2.402	ug/l #	75

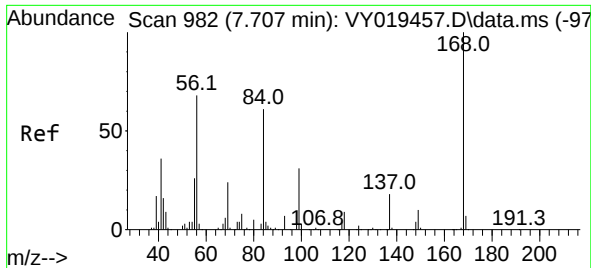
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

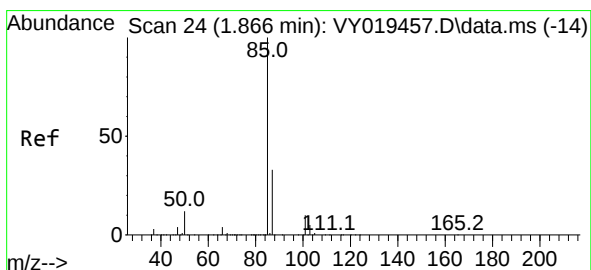
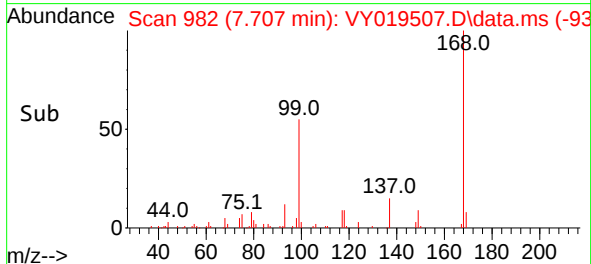
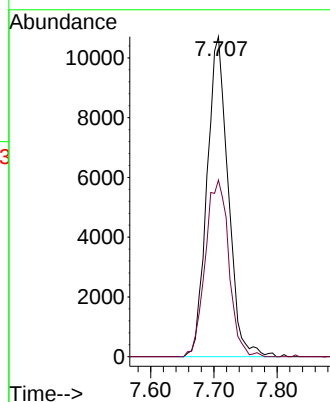
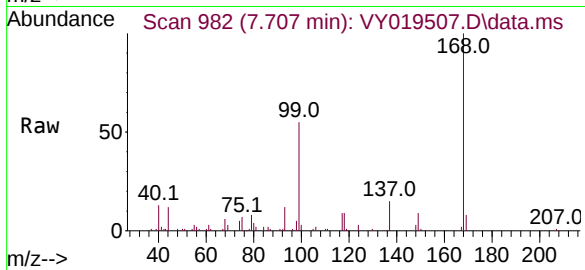




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

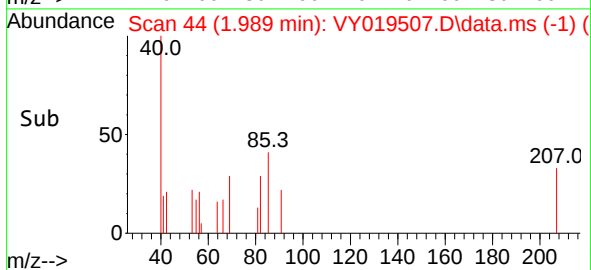
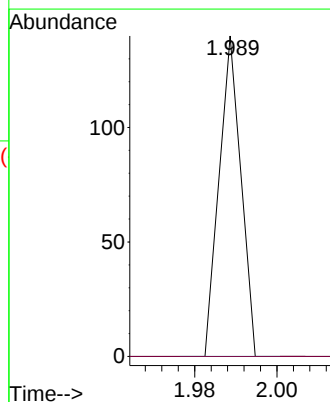
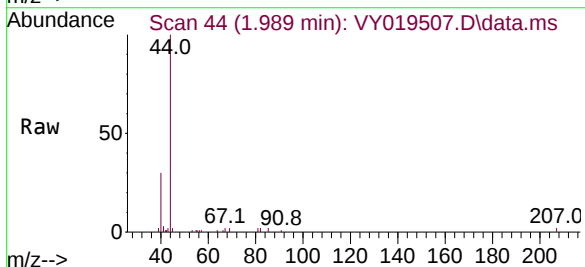
Instrument :
MSVOA_Y
ClientSampleId :

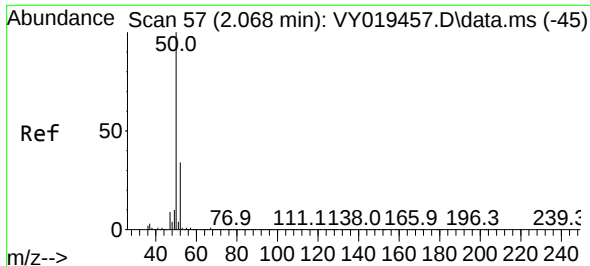
Tgt Ion:168 Resp: 24904
Ion Ratio Lower Upper
168 100
99 55.2 39.1 58.7



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.989 min Scan# 44
Delta R.T. 0.123 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 85 Resp: 51
Ion Ratio Lower Upper
85 100
87 0.0 16.0 48.0#

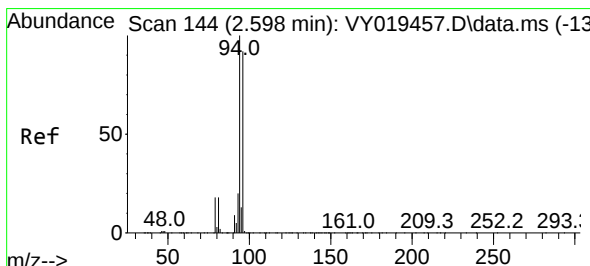
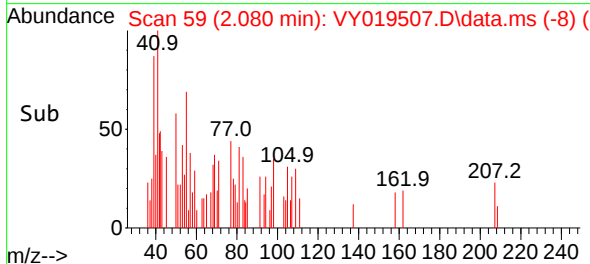
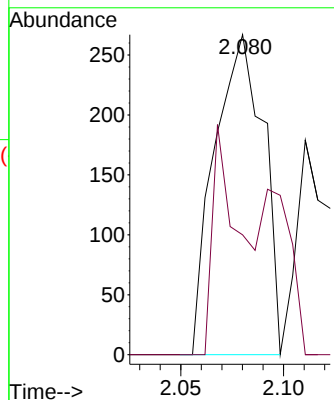
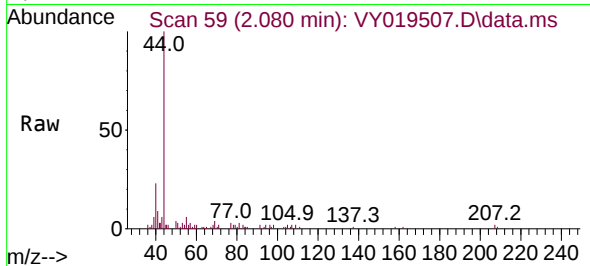




#3
Chloromethane
Concen: 2.135 ug/l
RT: 2.080 min Scan# 51
Delta R.T. 0.012 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

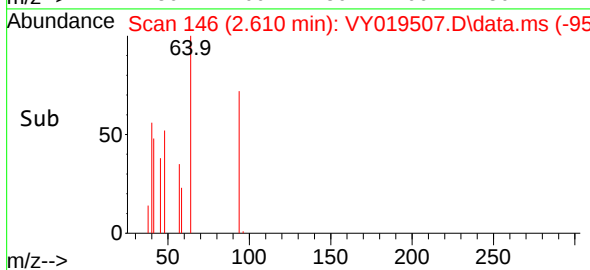
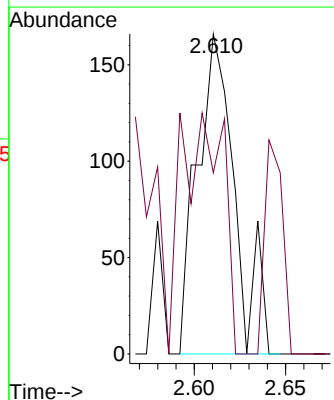
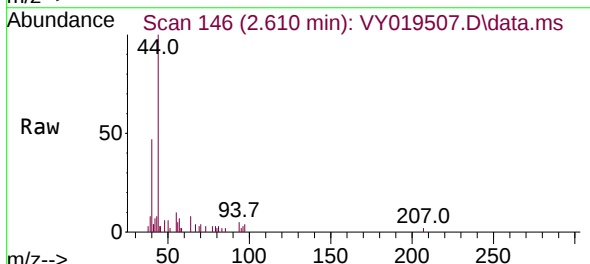
Instrument :
MSVOA_Y
ClientSampleId :

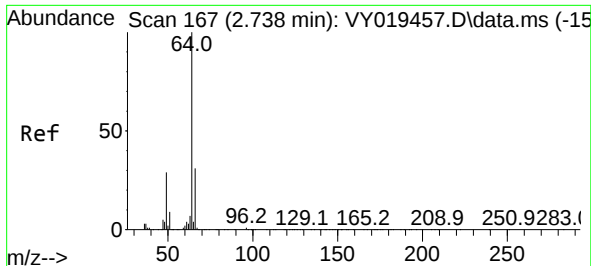
Tgt Ion: 50 Resp: 440
Ion Ratio Lower Upper
50 100
52 37.5 25.6 38.4



#5
Bromomethane
Concen: 1.739 ug/l
RT: 2.610 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 94 Resp: 238
Ion Ratio Lower Upper
94 100
96 0.0 74.1 111.1#

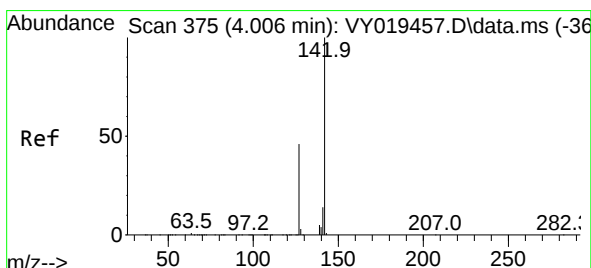
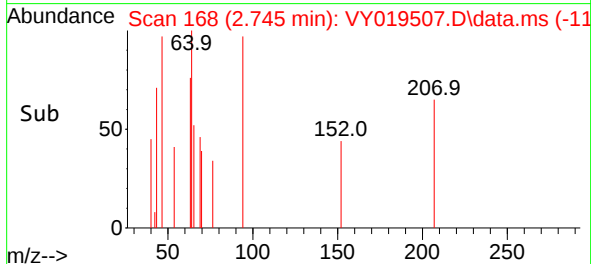
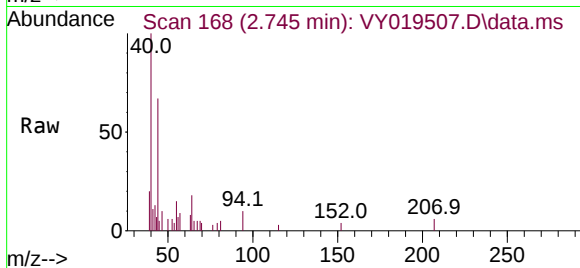




#6
Chloroethane
Concen: 1.078 ug/l
RT: 2.745 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

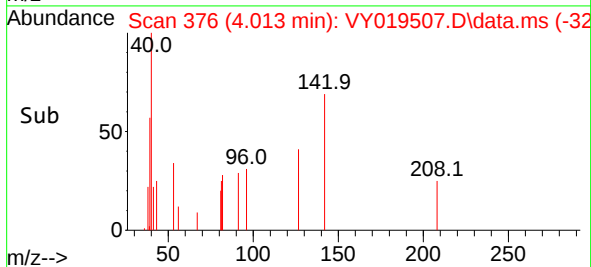
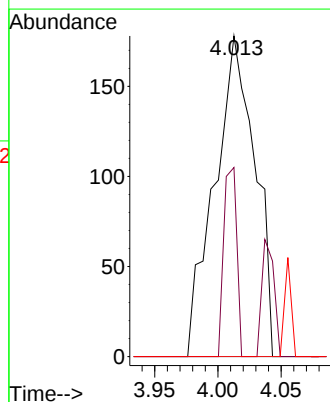
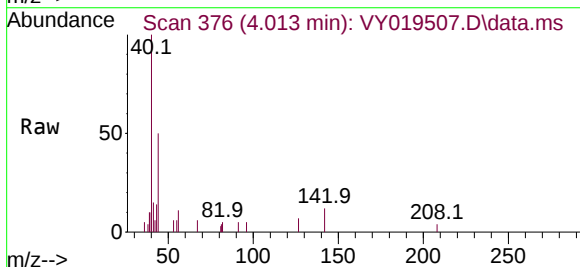
Instrument :
MSVOA_Y
ClientSampleId :

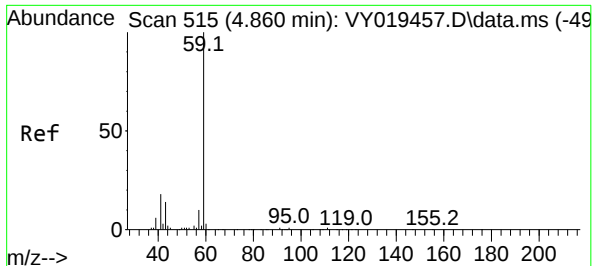
Tgt Ion: 64 Resp: 157
Ion Ratio Lower Upper
64 100
66 0.0 26.1 39.1#



#10
Methyl Iodide
Concen: 1.341 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 142 Resp: 395
Ion Ratio Lower Upper
142 100
127 19.0 32.8 49.2#
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 1.450 ug/l

RT: 5.092 min Scan# 51

Delta R.T. 0.232 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

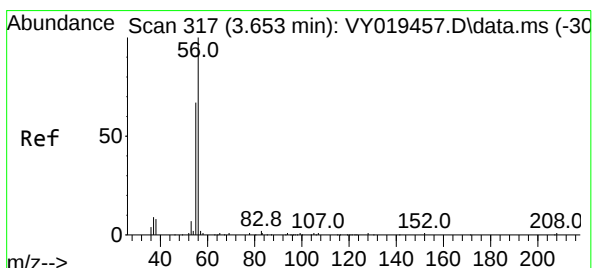
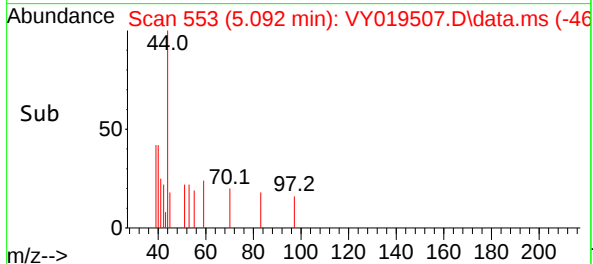
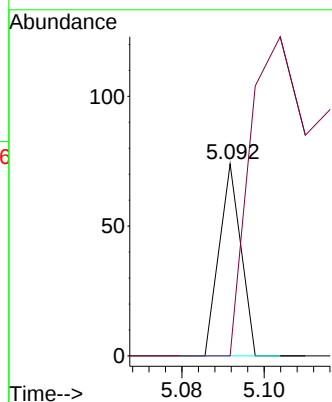
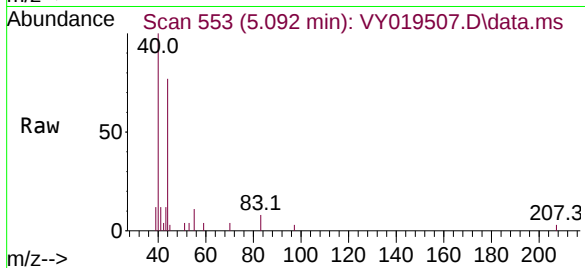
ClientSampleId :

Tgt Ion: 59 Resp: 27

Ion Ratio Lower Upper

59 100

57 422.2 3.0 4.6#



#13

Acrolein

Concen: 12.960 ug/l

RT: 3.653 min Scan# 317

Delta R.T. -0.000 min

Lab File: VY019507.D

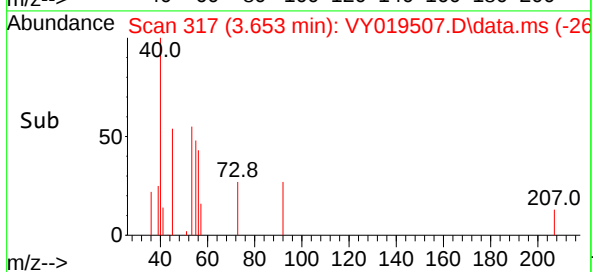
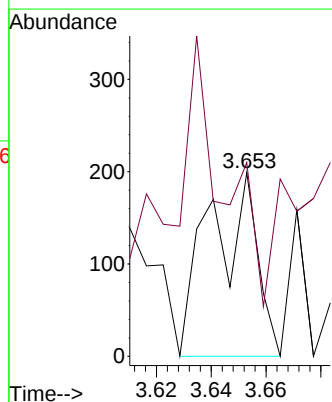
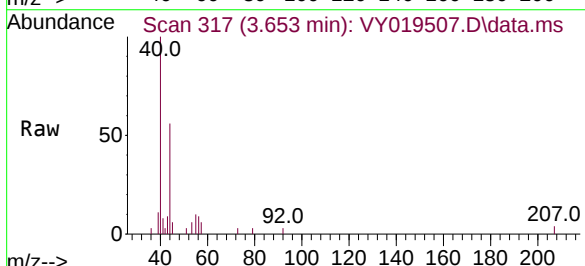
Acq: 11 Sep 2024 14:32

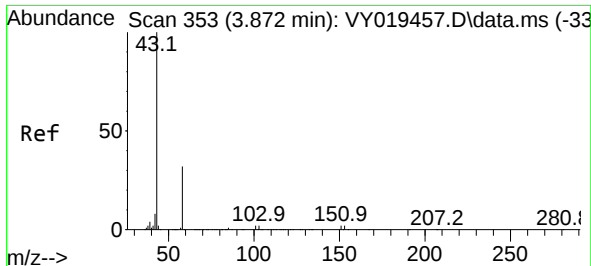
Tgt Ion: 56 Resp: 238

Ion Ratio Lower Upper

56 100

55 116.8 55.7 83.5#

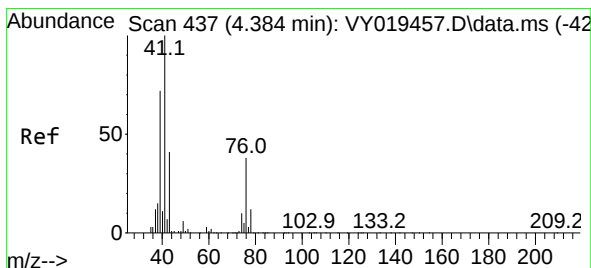
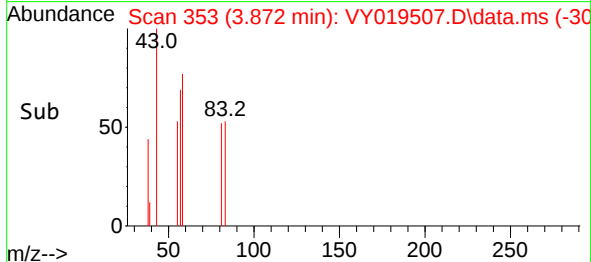
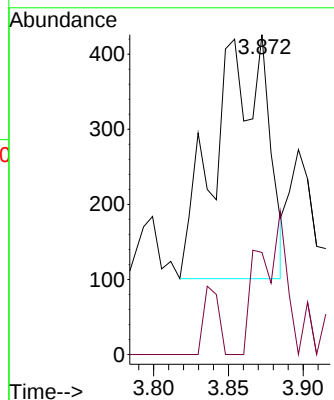
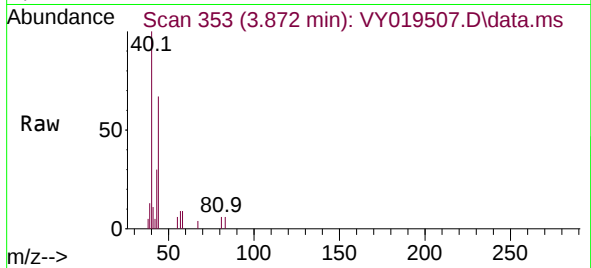




#16
Acetone
Concen: 14.125 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

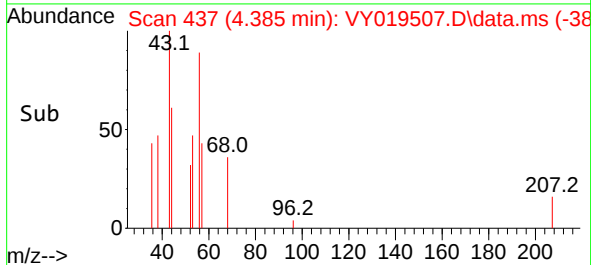
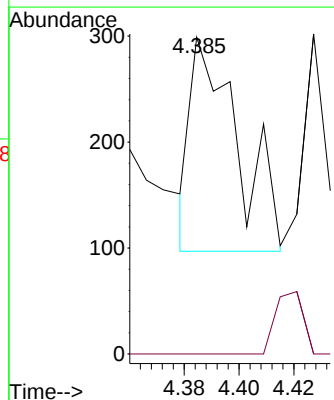
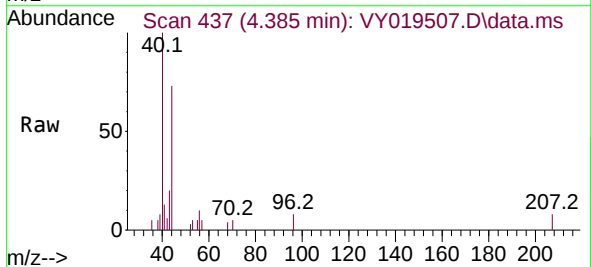
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ClientSampleId :

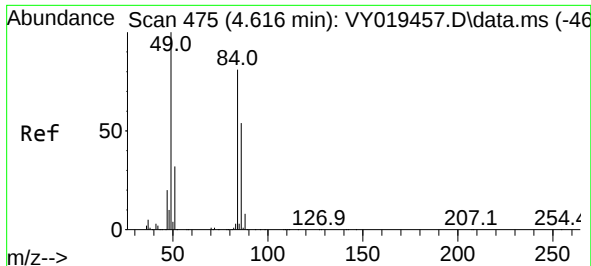
Tgt Ion: 43 Resp: 776
Ion Ratio Lower Upper
43 100
58 41.8 31.7 47.5



#18
Methyl Acetate
Concen: 1.623 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

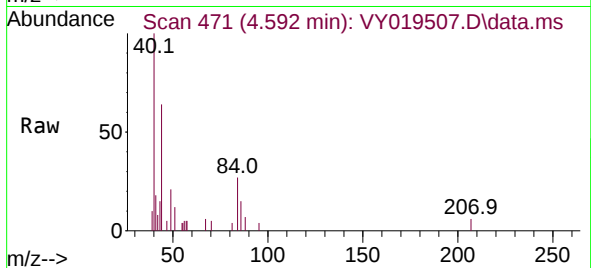
Tgt Ion: 43 Resp: 242
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#



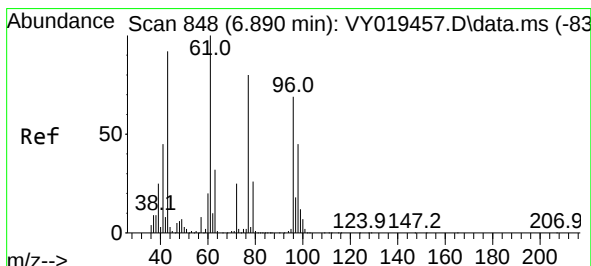
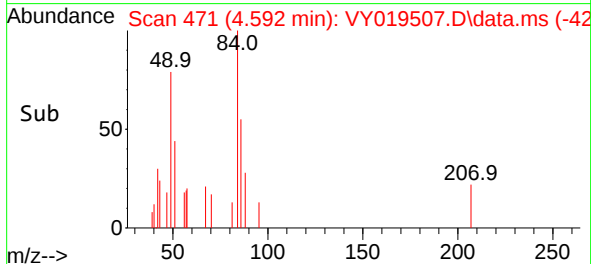
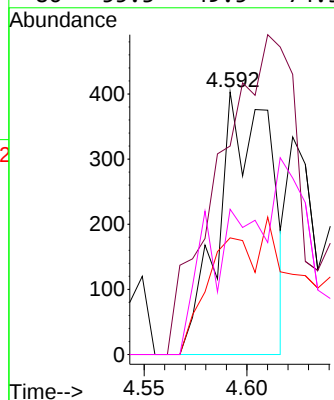


#20
Methylene Chloride
Concen: 2.862 ug/l
RT: 4.592 min Scan# 41
Delta R.T. -0.024 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Instrument :
MSVOA_Y
ClientSampleId :

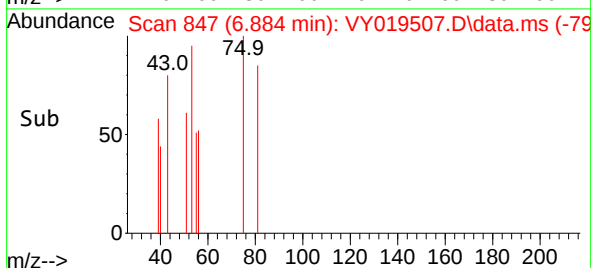
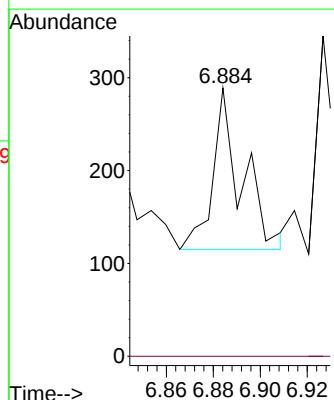
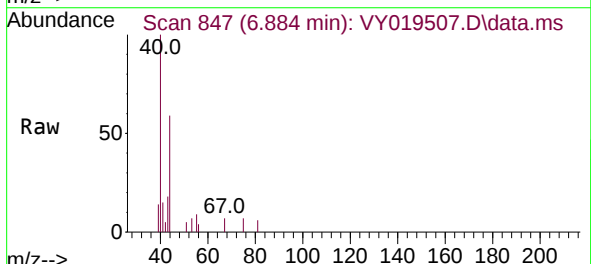


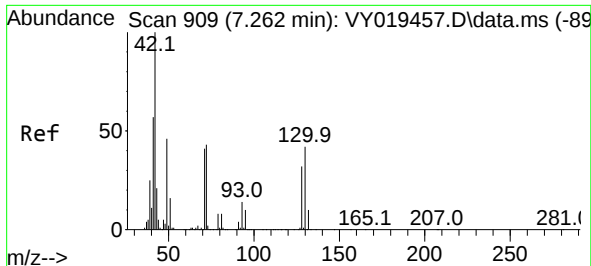
Tgt Ion:	84	Resp:	717
Ion	Ratio	Lower	Upper
84	100		
49	45.4	84.4	126.6#
51	44.4	26.0	39.0#
86	55.3	49.5	74.3



#25
2-Butanone
Concen: 1.894 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

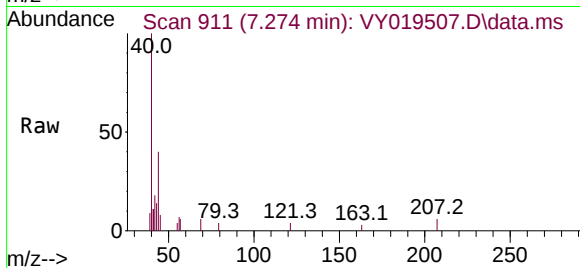
Tgt Ion:	43	Resp:	148
Ion	Ratio	Lower	Upper
43	100		
72	0.0	27.3	40.9#



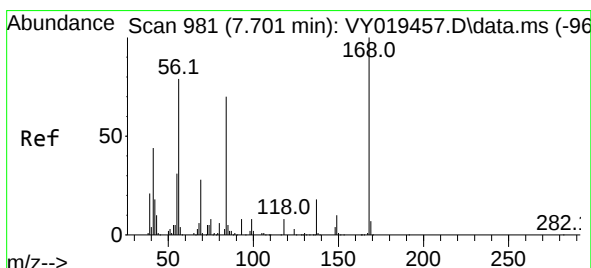
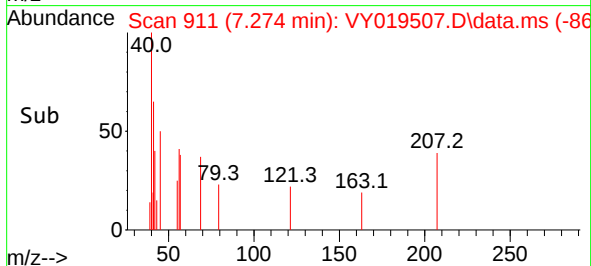
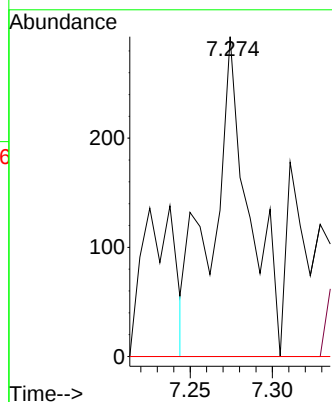


#29
Tetrahydrofuran
Concen: 9.662 ug/l
RT: 7.274 min Scan# 911
Delta R.T. 0.012 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Instrument :
MSVOA_Y
ClientSampleId :

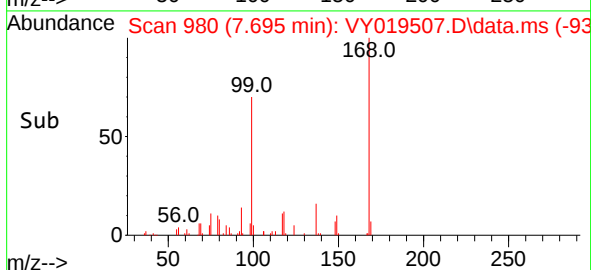
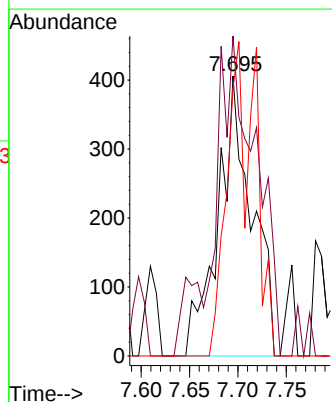
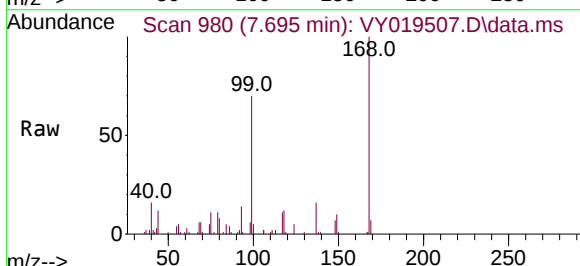


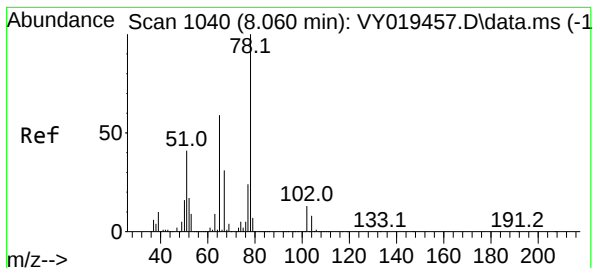
Tgt Ion: 42 Resp: 459
Ion Ratio Lower Upper
42 100
72 0.0 43.0 64.4#
71 0.0 40.8 61.2#



#31
Cyclohexane
Concen: 2.379 ug/l
RT: 7.695 min Scan# 980
Delta R.T. -0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 56 Resp: 982
Ion Ratio Lower Upper
56 100
69 114.3 28.7 43.1#
84 95.6 77.7 116.5





#33

1,2-Dichloroethane-d4

Concen: 43.100 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

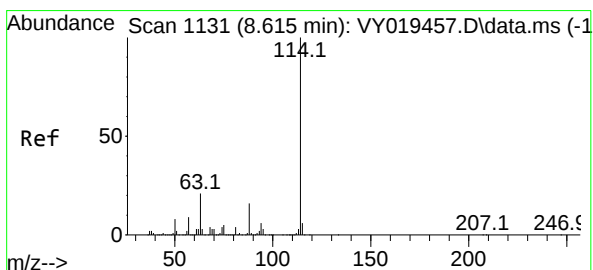
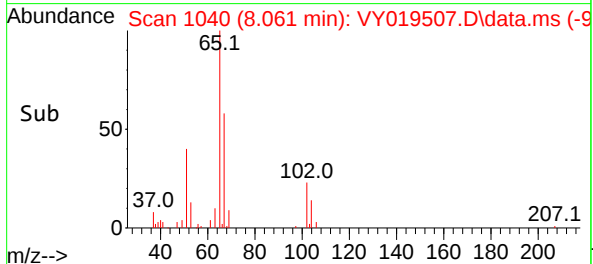
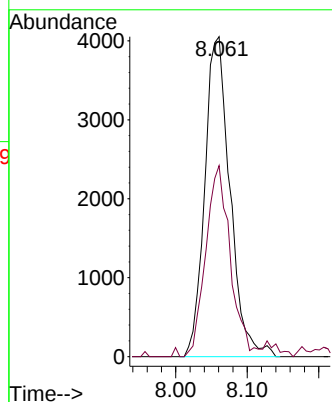
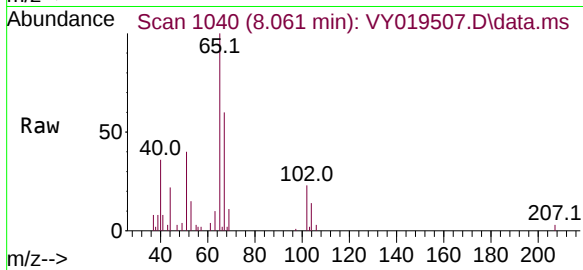
ClientSampleId :

Tgt Ion: 65 Resp: 9939

Ion Ratio Lower Upper

65 100

67 58.2 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

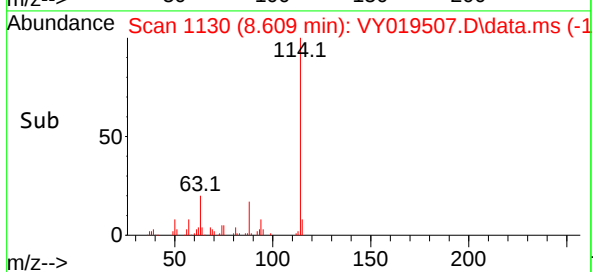
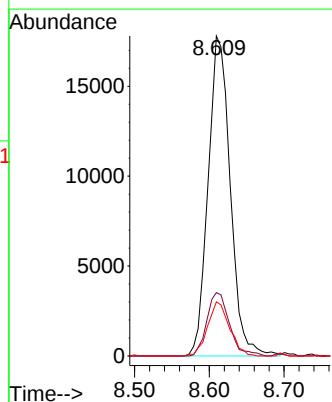
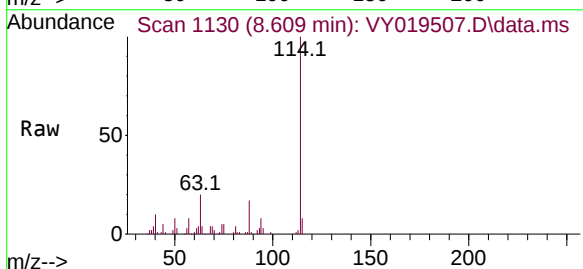
Tgt Ion: 114 Resp: 36689

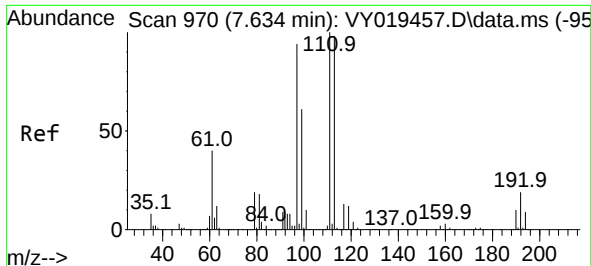
Ion Ratio Lower Upper

114 100

63 19.8 0.0 35.0

88 16.9 0.0 27.2





#35

Dibromofluoromethane

Concen: 49.731 ug/l

RT: 7.628 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY019507.D

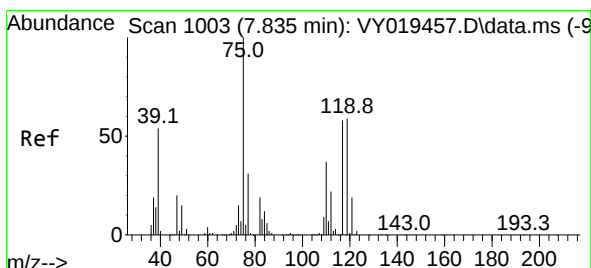
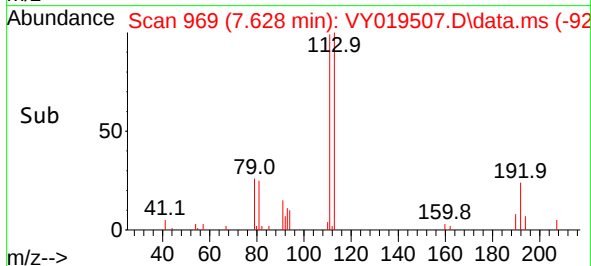
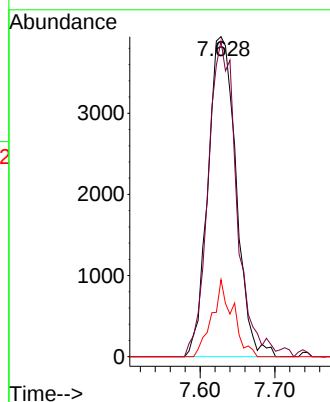
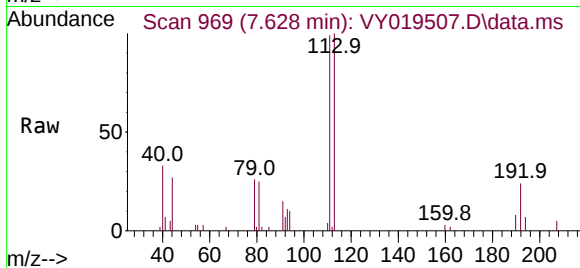
Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:113	Resp:	10345
Ion	Ratio	Lower Upper
113	100	
111	100.8	82.2 123.4
192	18.0	15.9 23.9



#36

1,1-Dichloropropene

Concen: 7.680 ug/l

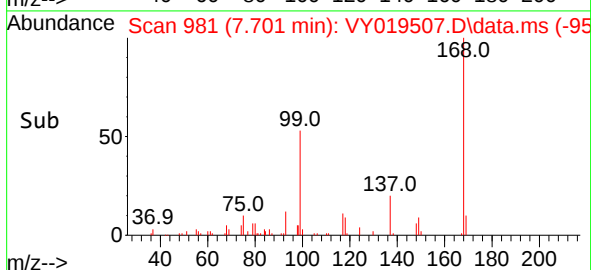
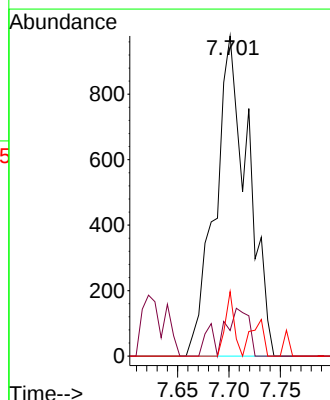
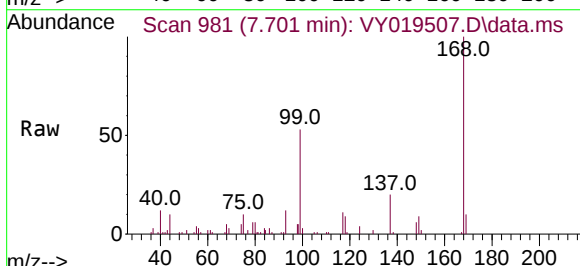
RT: 7.701 min Scan# 981

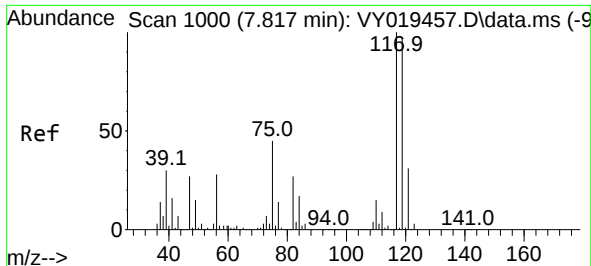
Delta R.T. -0.134 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

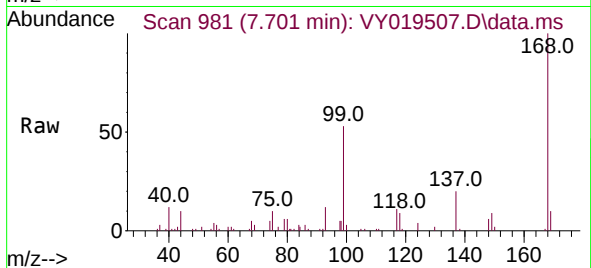
Tgt Ion: 75	Resp:	2174
Ion	Ratio	Lower Upper
75	100	
110	9.8	19.0 57.0#
77	5.4	25.3 37.9#



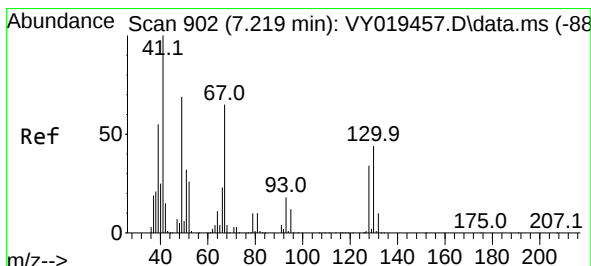
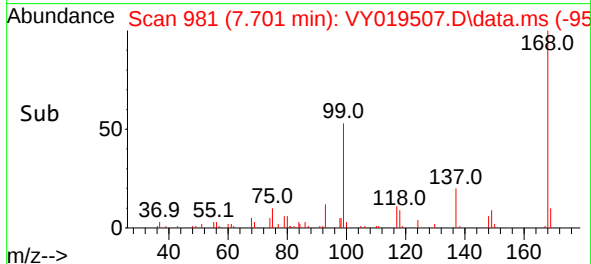
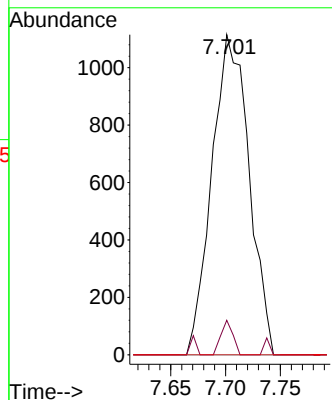


#38
Carbon Tetrachloride
Concen: 8.236 ug/l
RT: 7.701 min Scan# 901
Delta R.T. -0.116 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Instrument :
MSVOA_Y
ClientSampleId :

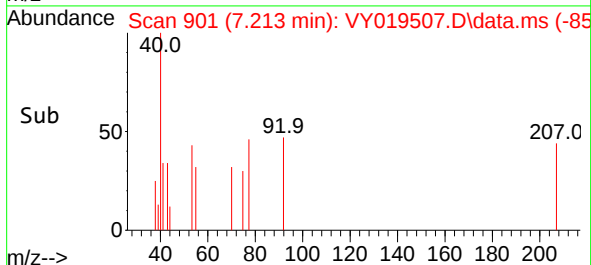
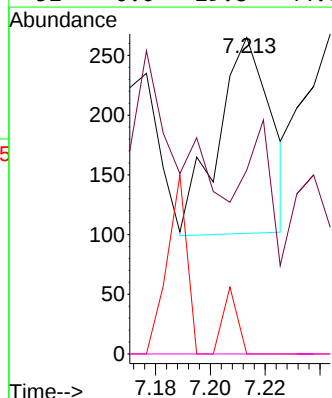
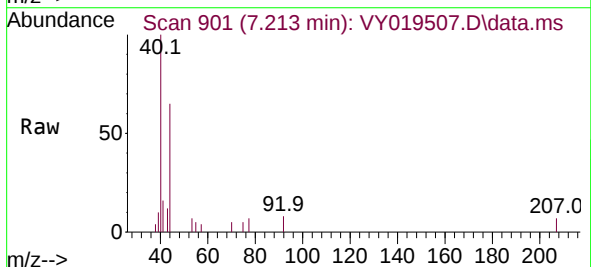


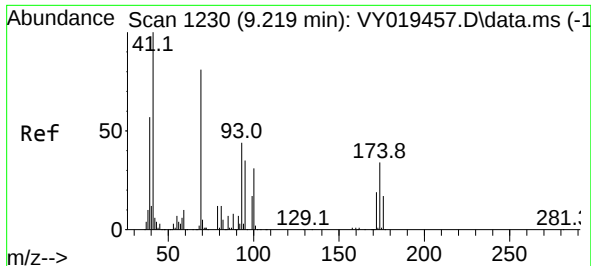
Tgt Ion:117 Resp: 2629
Ion Ratio Lower Upper
117 100
119 10.8 75.8 113.6#
121 0.0 24.0 36.0#



#41
Methacrylonitrile
Concen: 2.614 ug/l
RT: 7.213 min Scan# 901
Delta R.T. -0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 41 Resp: 221
Ion Ratio Lower Upper
41 100
39 0.0 48.0 72.0#
67 9.0 75.1 112.7#
52 0.0 29.8 44.6#

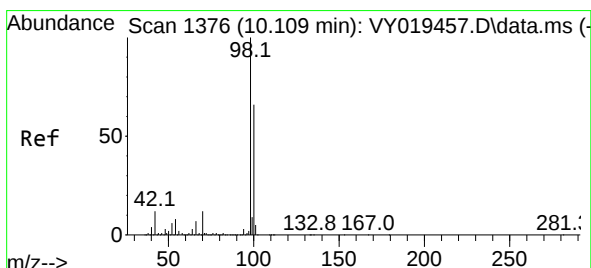
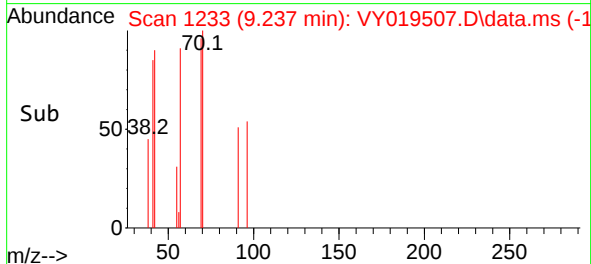
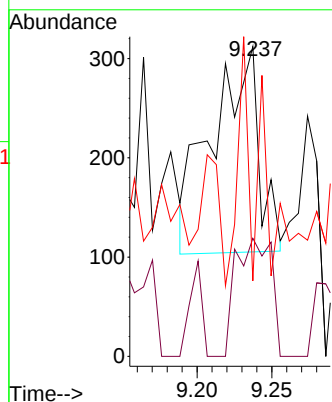
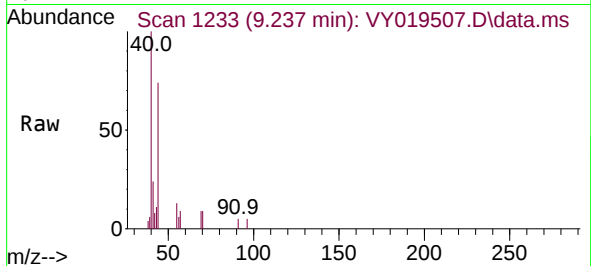




#48
Methyl methacrylate
Concen: 3.162 ug/l
RT: 9.237 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

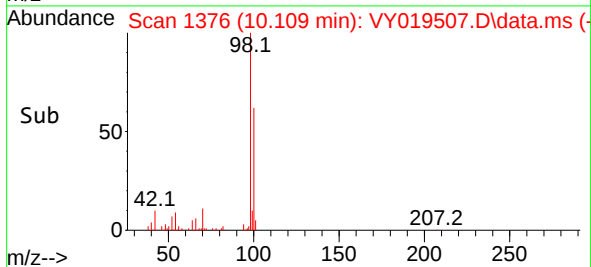
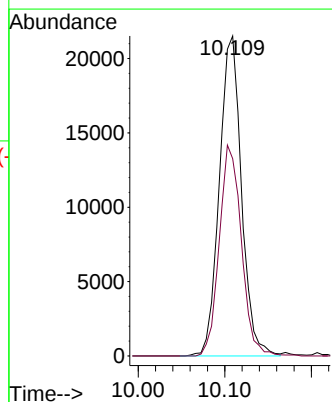
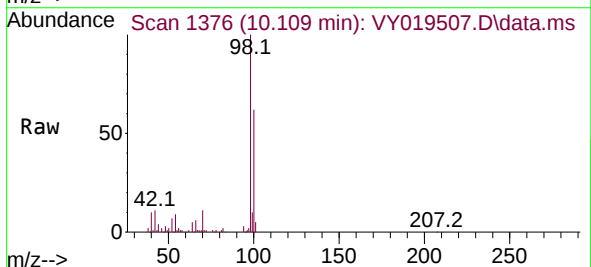
Instrument :
MSVOA_Y
ClientSampleId :

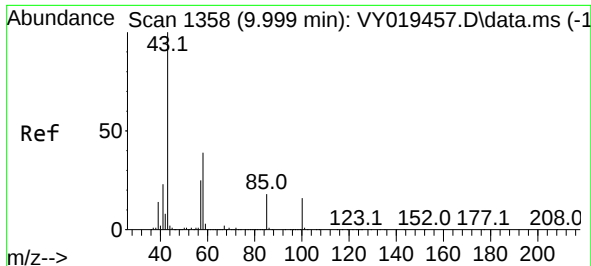
Tgt Ion: 41 Resp: 455
Ion Ratio Lower Upper
41 100
69 42.9 84.1 126.1#
39 61.8 43.6 65.4



#50
Toluene-d8
Concen: 49.631 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 98 Resp: 38187
Ion Ratio Lower Upper
98 100
100 65.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.350 ug/l

RT: 9.957 min Scan# 1

Delta R.T. -0.042 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

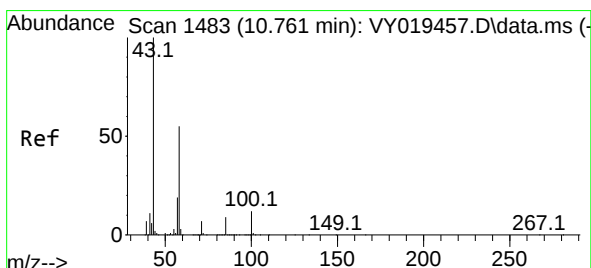
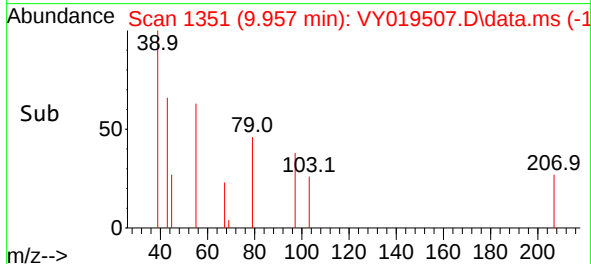
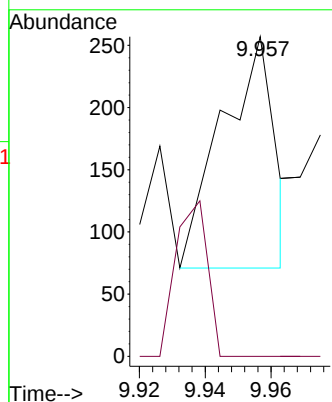
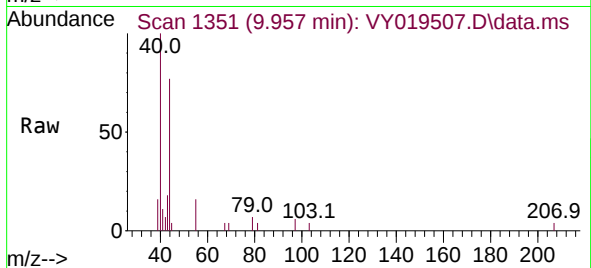
ClientSampleId :

Tgt Ion: 43 Resp: 207

Ion Ratio Lower Upper

43 100

58 40.6 35.7 53.5



#59

2-Hexanone

Concen: 1.175 ug/l

RT: 10.871 min Scan# 1501

Delta R.T. 0.110 min

Lab File: VY019507.D

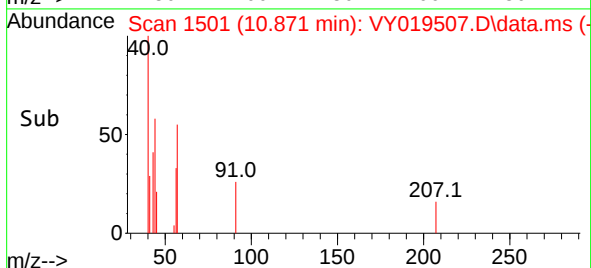
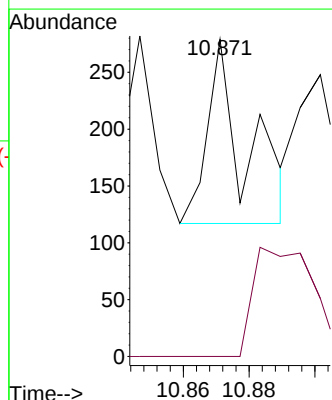
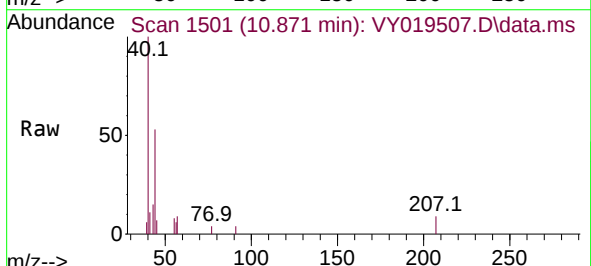
Acq: 11 Sep 2024 14:32

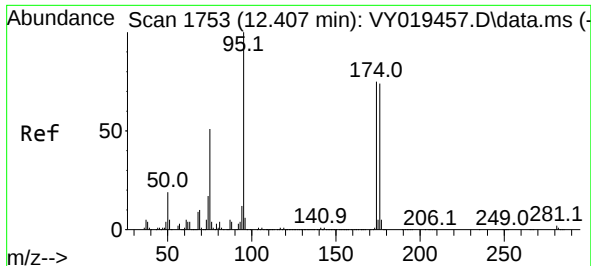
Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

43 100

58 90.2 31.4 94.0

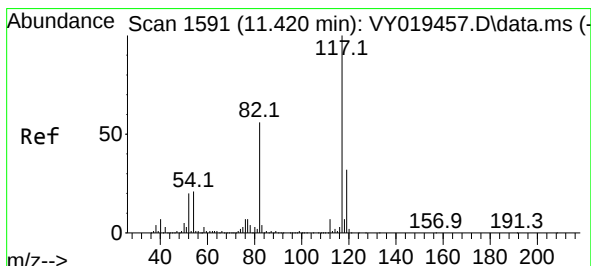
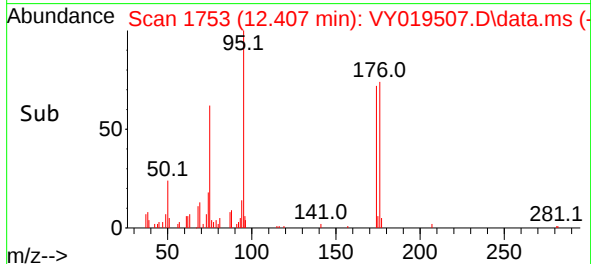
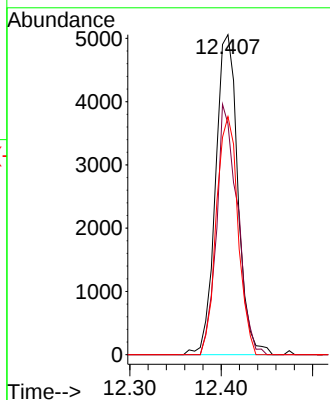
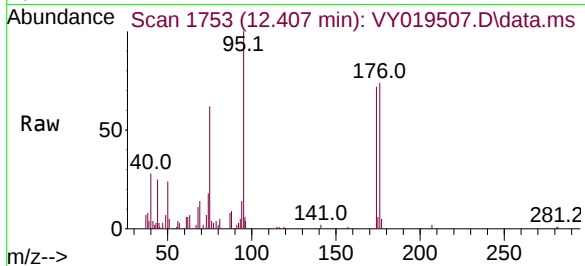




#62
4-Bromofluorobenzene
Concen: 29.025 ug/l
RT: 12.407 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

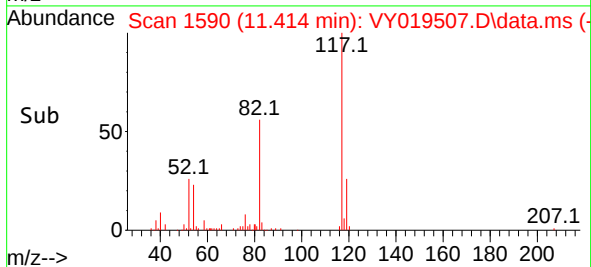
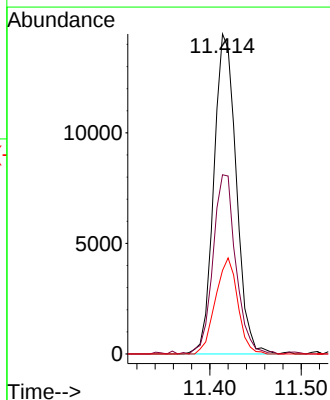
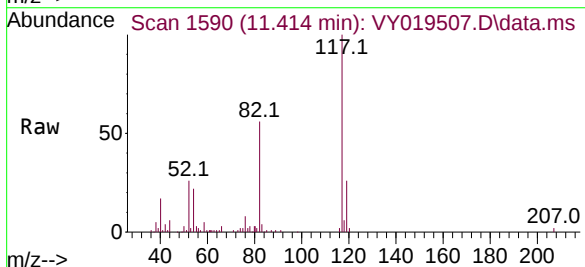
Instrument :
MSVOA_Y
ClientSampleId :

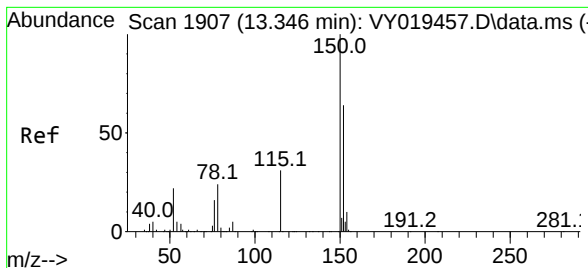
Tgt Ion: 95 Resp: 8587
Ion Ratio Lower Upper
95 100
174 73.7 0.0 175.6
176 72.1 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 117 Resp: 24593
Ion Ratio Lower Upper
117 100
82 56.0 42.4 63.6
119 26.1 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

ClientSampleId :

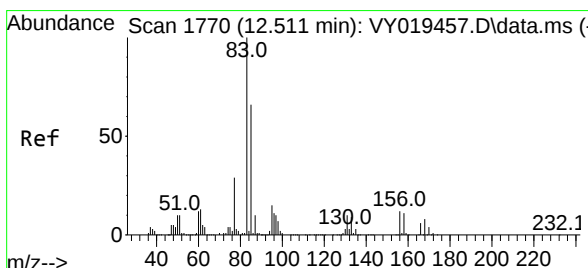
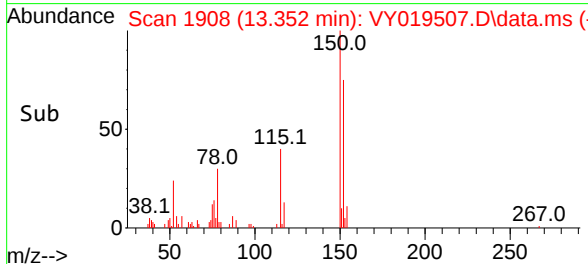
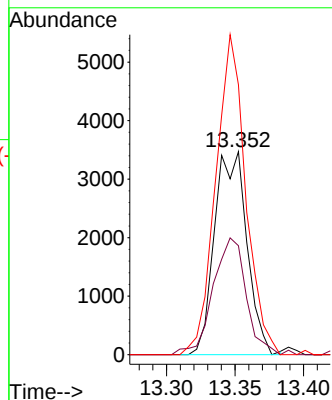
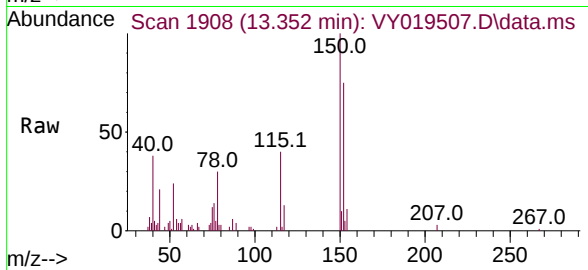
Tgt Ion:152 Resp: 5697

Ion Ratio Lower Upper

152 100

115 59.1 28.2 84.7

150 146.0 0.0 345.6



#75

1,1,2,2-Tetrachloroethane

Concen: 1.363 ug/l

RT: 12.499 min Scan# 1768

Delta R.T. -0.012 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

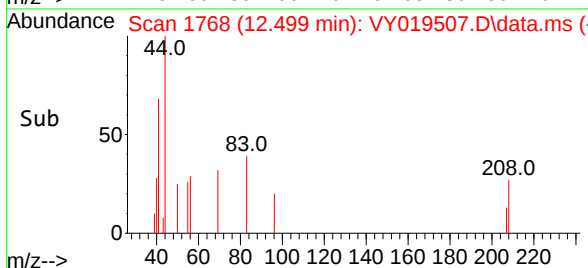
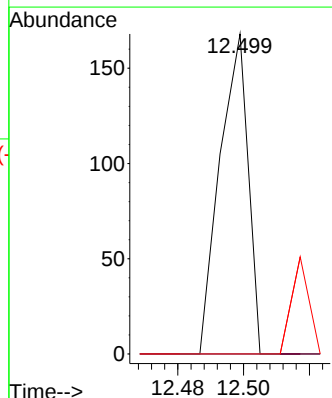
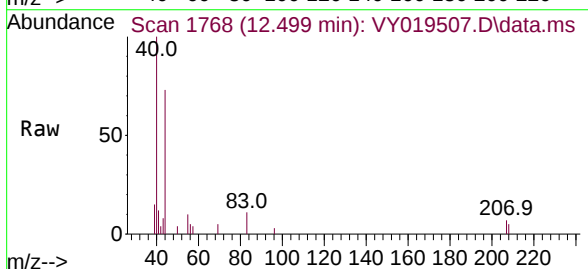
Tgt Ion: 83 Resp: 100

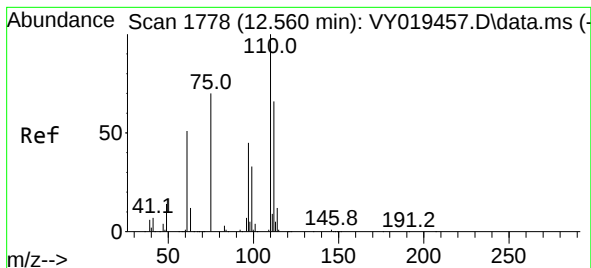
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 19.0 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 83.206 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

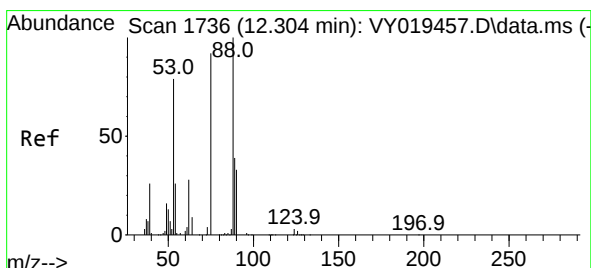
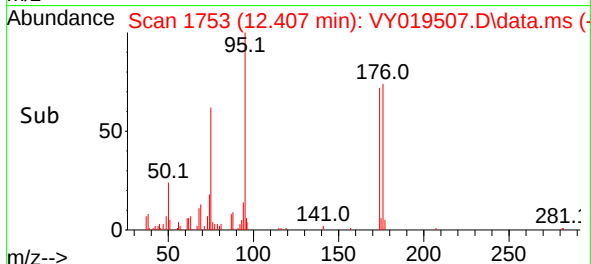
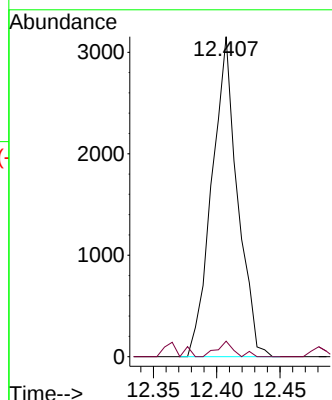
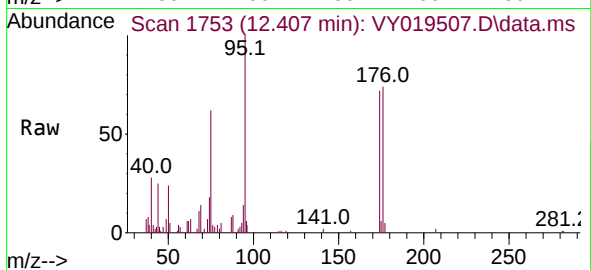
ClientSampleId :

Tgt Ion: 75 Resp: 4443

Ion Ratio Lower Upper

75 100

77 3.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 159.732 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

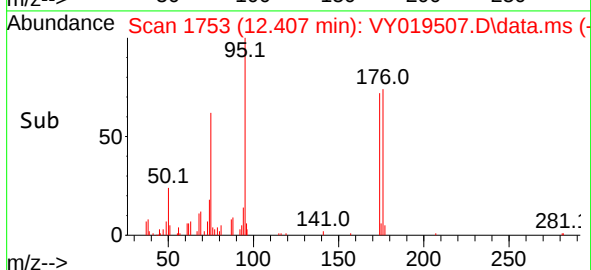
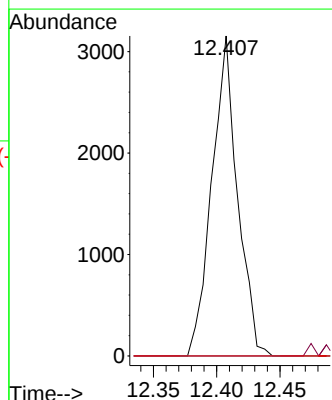
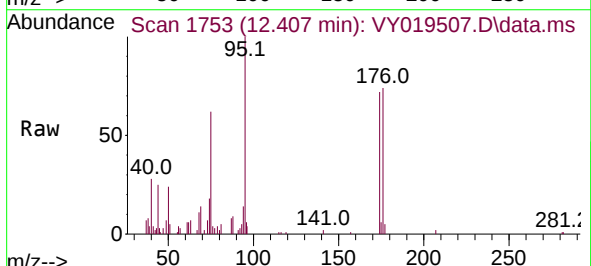
Tgt Ion: 75 Resp: 4443

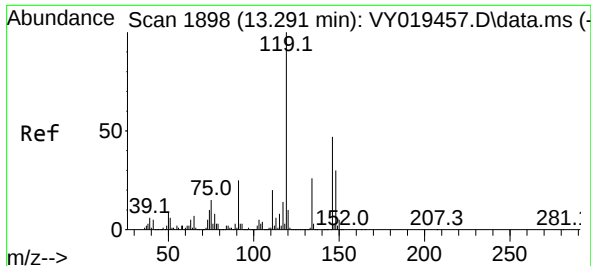
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#





#87

1,3-Dichlorobenzene

Concen: 1.072 ug/l

RT: 13.377 min Scan# 1912

Delta R.T. 0.086 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

Instrument :

MSVOA_Y

ClientSampleId :

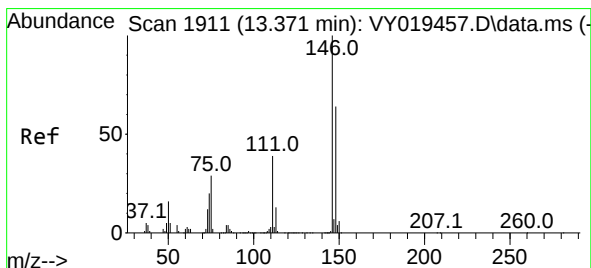
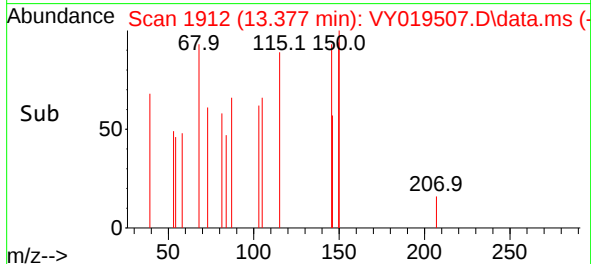
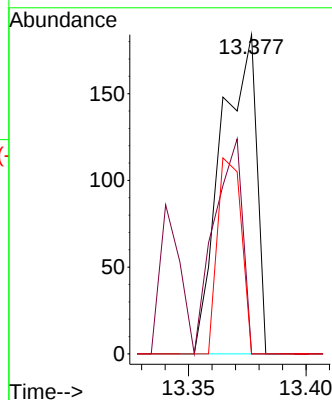
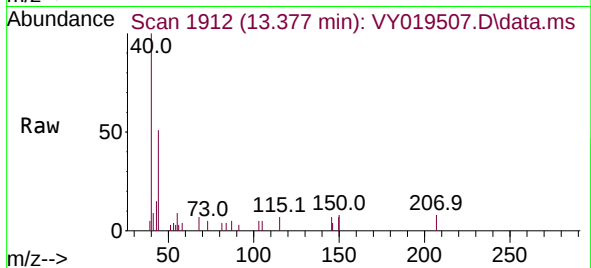
Tgt Ion:146 Resp: 191

Ion Ratio Lower Upper

146 100

111 54.5 19.0 57.0

148 41.9 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 1.081 ug/l

RT: 13.377 min Scan# 1912

Delta R.T. 0.006 min

Lab File: VY019507.D

Acq: 11 Sep 2024 14:32

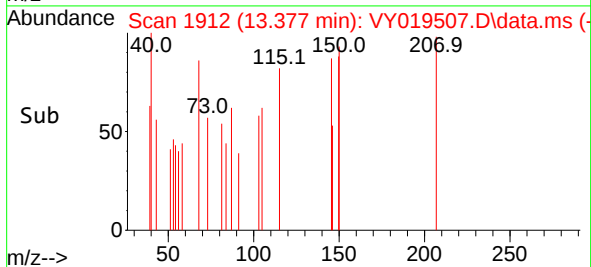
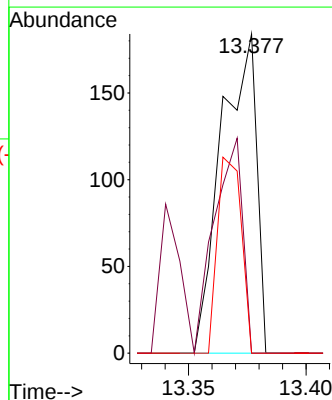
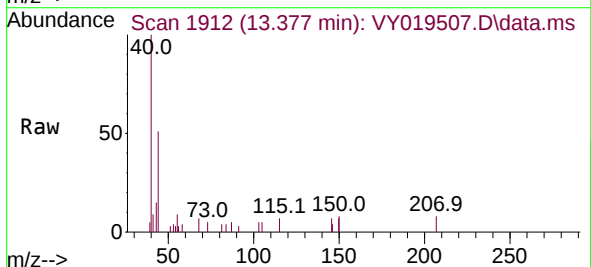
Tgt Ion:146 Resp: 191

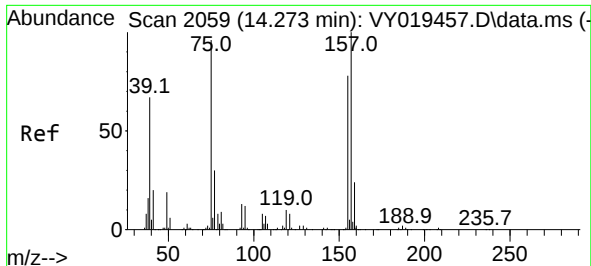
Ion Ratio Lower Upper

146 100

111 54.5 18.4 55.4

148 41.9 32.4 97.2

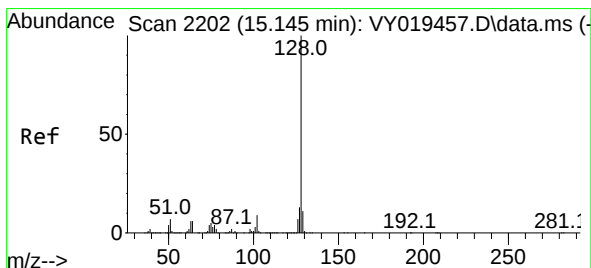
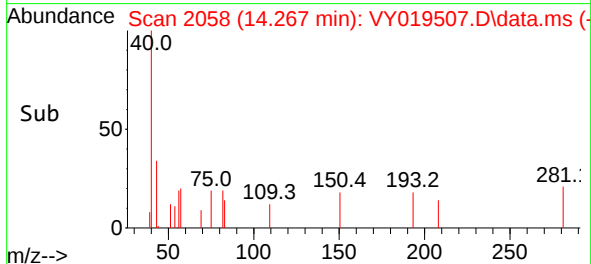
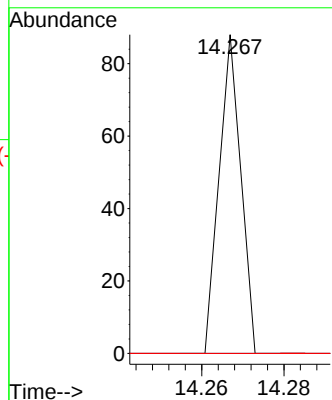
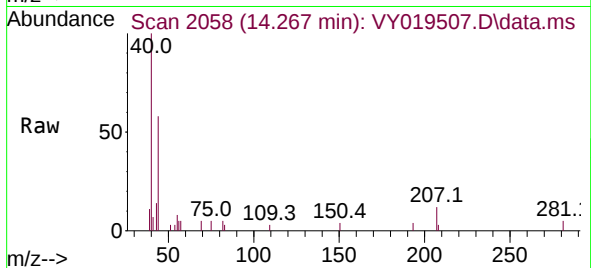




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.617 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 32
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#



#95
Naphthalene
Concen: 2.402 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. -0.006 min
Lab File: VY019507.D
Acq: 11 Sep 2024 14:32

Tgt Ion: 128 Resp: 465
Ion Ratio Lower Upper
128 100
127 4.7 10.6 16.0#
129 0.0 8.6 13.0#

