

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
 Data File : VY019467.D
 Acq On : 09 Sep 2024 15:57
 Operator : SY/MD
 Sample : P3852-04
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 10 01:49:00 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)

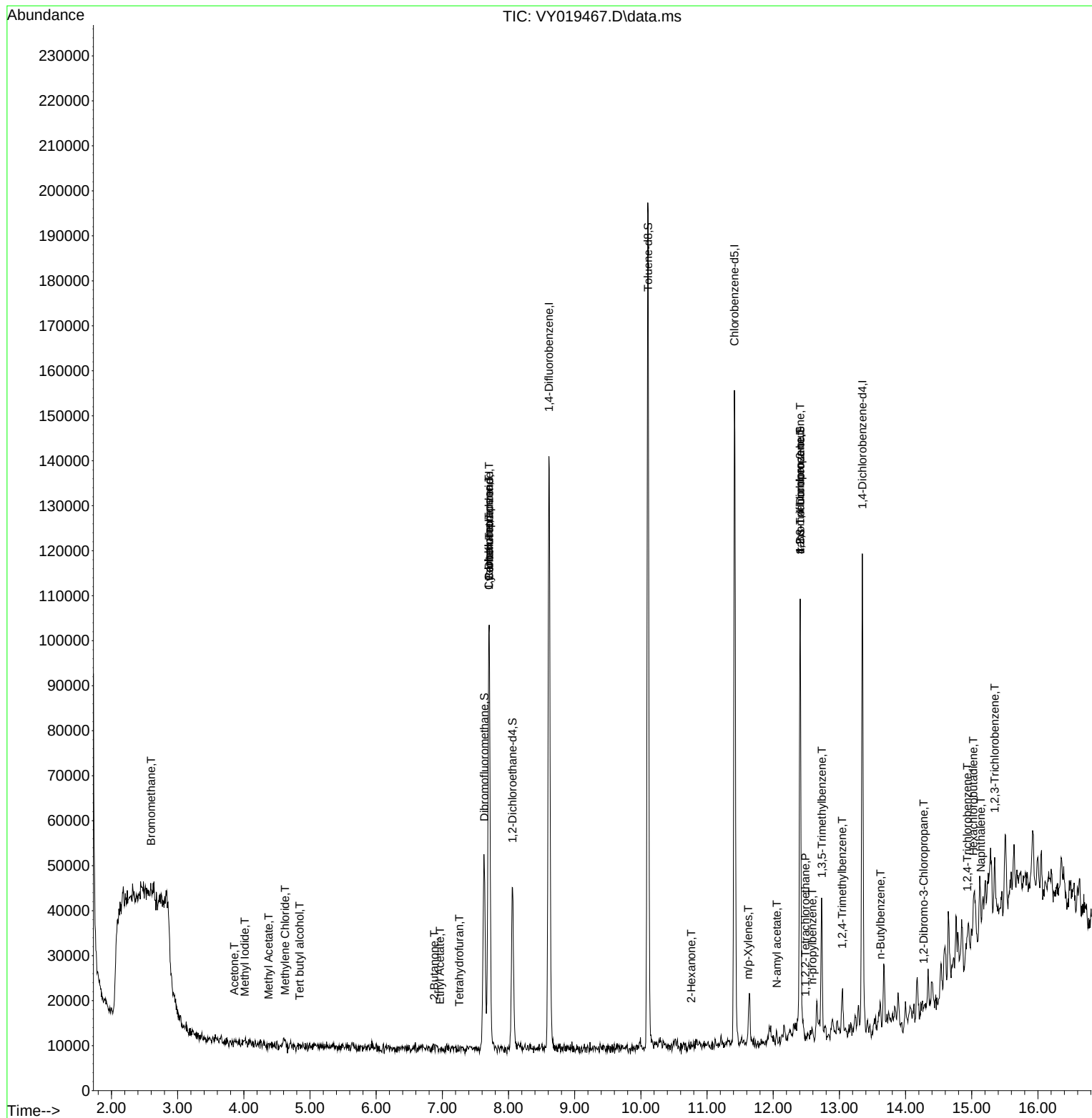
Internal Standards						
1) Pentafluorobenzene	7.707	168	70757	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.610	114	113138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	77953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	24059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	28938	44.167	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.340%
35) Dibromofluoromethane	7.634	113	31329	48.839	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.680%
50) Toluene-d8	10.109	98	124418	52.438	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	104.880%
62) 4-Bromofluorobenzene	12.408	95	31423	34.444	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	68.880%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.855	85	143	Below Cal	#	43
5) Bromomethane	2.599	94	725	1.865	ug/l #	45
10) Methyl Iodide	4.013	142	977	1.167	ug/l #	95
11) Tert butyl alcohol	4.842	59	286	5.405	ug/l #	20
13) Acrolein	3.647	56	201	Below Cal	#	1
16) Acetone	3.854	43	1540	9.866	ug/l #	81
18) Methyl Acetate	4.373	43	507	1.197	ug/l #	46
20) Methylene Chloride	4.623	84	1371	1.926	ug/l #	75
25) 2-Butanone	6.878	43	486	2.189	ug/l #	73
29) Tetrahydrofuran	7.256	42	216	1.600	ug/l #	31
31) Cyclohexane	7.701	56	1572	1.341	ug/l #	9
36) 1,1-Dichloropropene	7.701	75	6567	7.524	ug/l #	52
37) Ethyl Acetate	6.964	43	453	1.013	ug/l #	1
38) Carbon Tetrachloride	7.707	117	7702	7.825	ug/l #	17
59) 2-Hexanone	10.762	43	764	2.205	ug/l	88
68) m/p-Xylenes	11.621	106	1038	1.008	ug/l	85
74) N-amyl acetate	12.054	43	1063	2.239	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.487	83	443	1.430	ug/l #	33
76) 1,2,3-Trichloropropane	12.408	75	16924	75.050	ug/l #	100
78) n-propylbenzene	12.591	91	2157	1.043	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	2545	1.794	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.408	75	16924	144.074	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.042	105	5906	4.205	ug/l	93
89) n-Butylbenzene	13.621	91	1843	1.263	ug/l #	82
92) 1,2-Dibromo-3-Chloropr...	14.273	75	59	1.143	ug/l #	17
93) 1,2,4-Trichlorobenzene	14.932	180	708	1.734	ug/l #	67
94) Hexachlorobutadiene	15.023	225	444	2.036	ug/l #	64
95) Naphthalene	15.139	128	2678	3.276	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.346	180	938	2.686	ug/l #	12

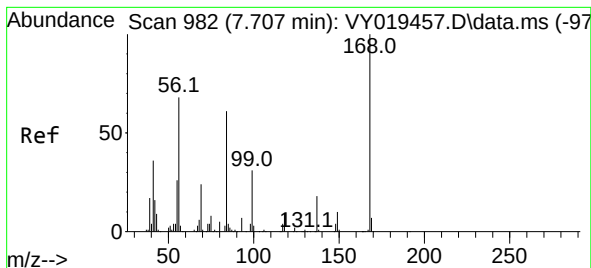
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

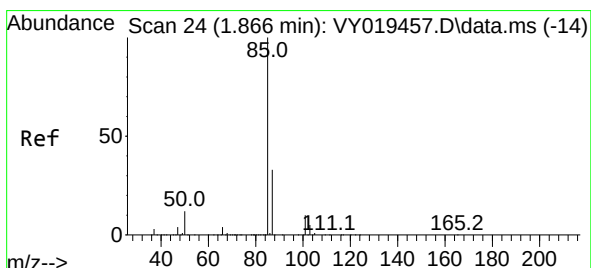
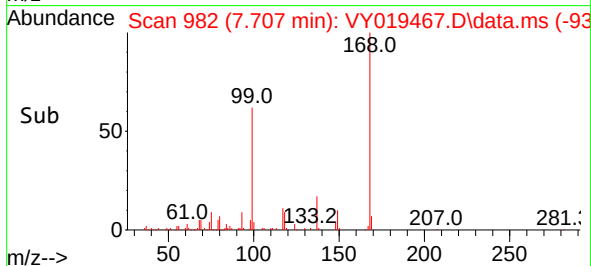
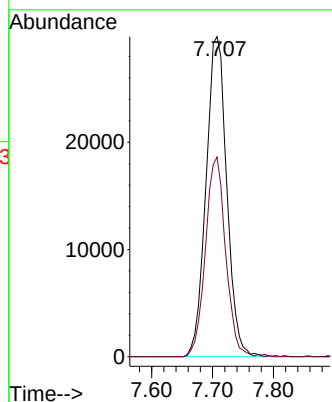
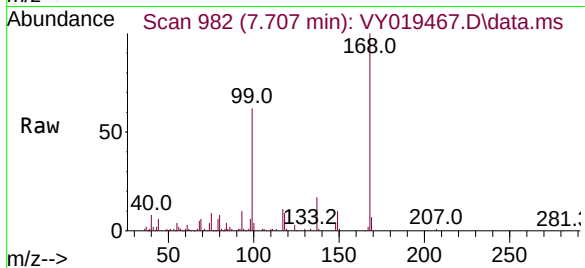
ClientSampleId :

Tgt Ion:168 Resp: 70757

Ion Ratio Lower Upper

168 100

99 62.4 39.1 58.7#



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.855 min Scan# 22

Delta R.T. -0.011 min

Lab File: VY019467.D

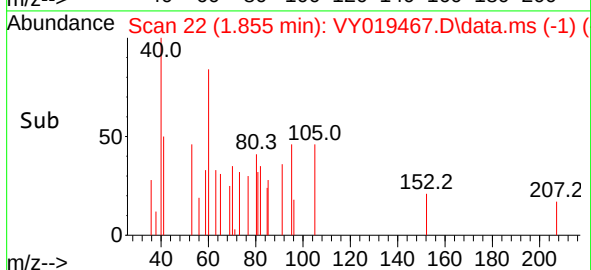
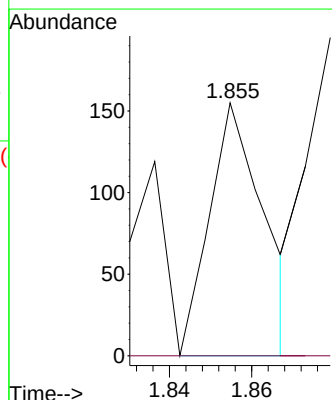
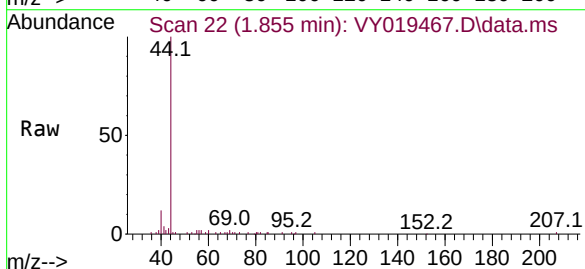
Acq: 09 Sep 2024 15:57

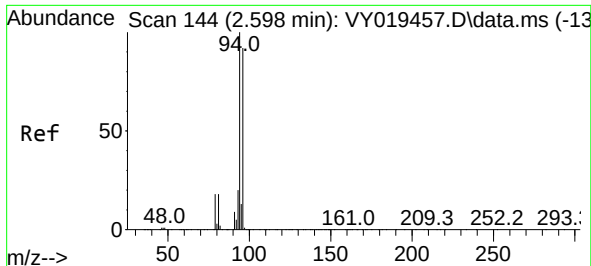
Tgt Ion: 85 Resp: 143

Ion Ratio Lower Upper

85 100

87 0.0 16.0 48.0#

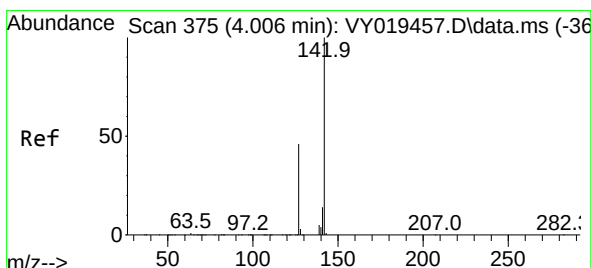
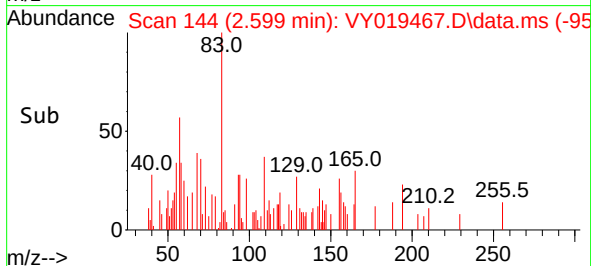
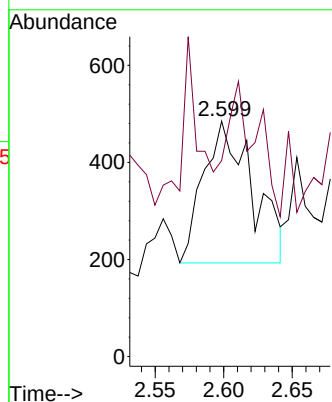
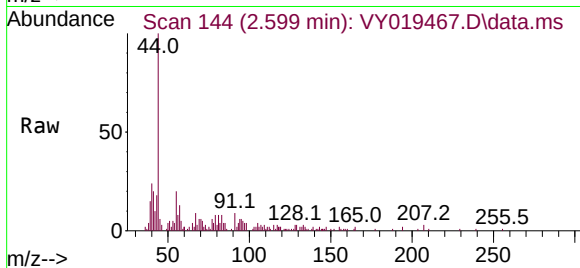




#5
Bromomethane
Concen: 1.865 ug/l
RT: 2.599 min Scan# 144
Delta R.T. 0.000 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

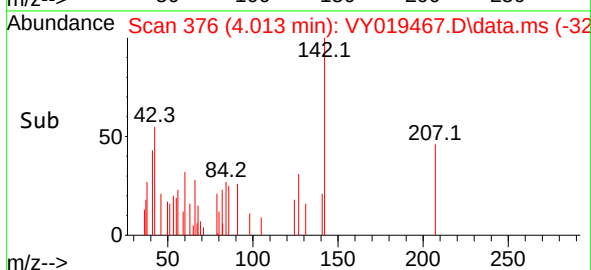
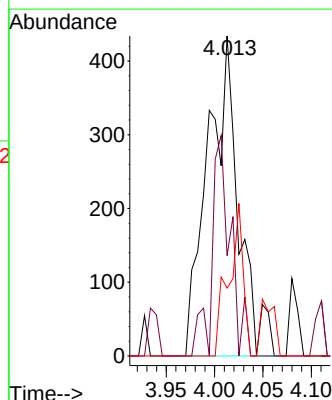
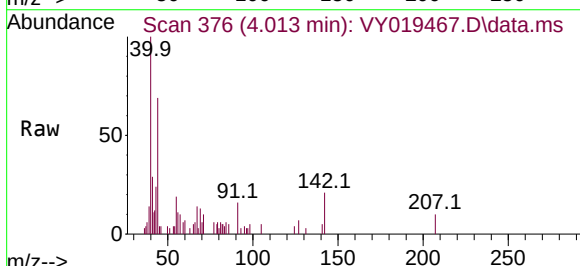
Instrument :
MSVOA_Y
ClientSampleId :

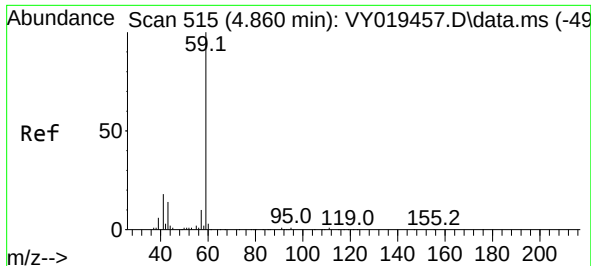
Tgt Ion: 94 Resp: 725
Ion Ratio Lower Upper
94 100
96 39.7 74.1 111.1#



#10
Methyl Iodide
Concen: 1.167 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.007 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

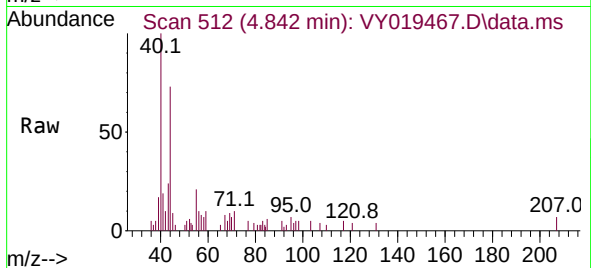
Tgt Ion: 142 Resp: 977
Ion Ratio Lower Upper
142 100
127 40.8 32.8 49.2
141 22.2 11.4 17.2#



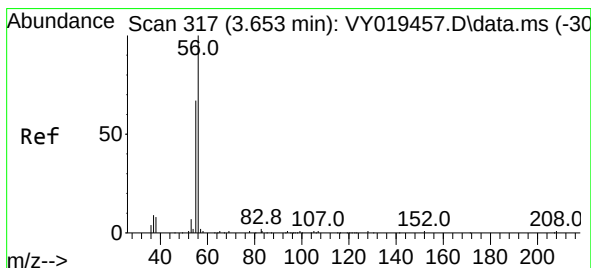
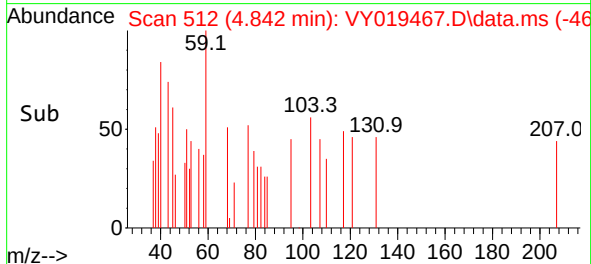
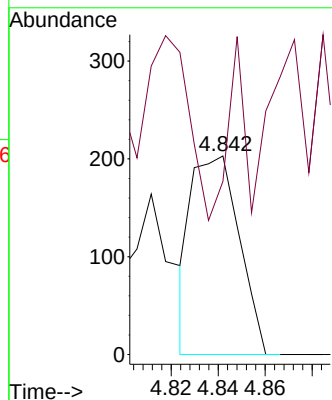


#11
Tert butyl alcohol
Concen: 5.405 ug/l
RT: 4.842 min Scan# 51
Delta R.T. -0.018 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Instrument :
MSVOA_Y
ClientSampleId :

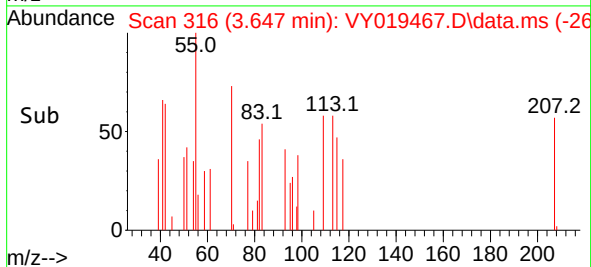
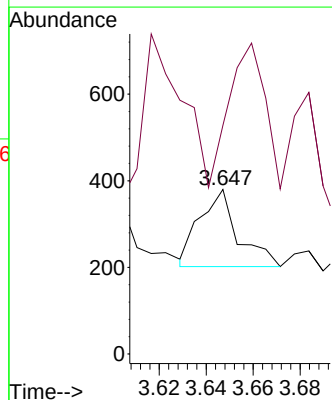
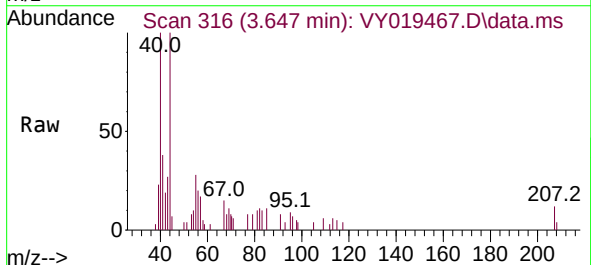


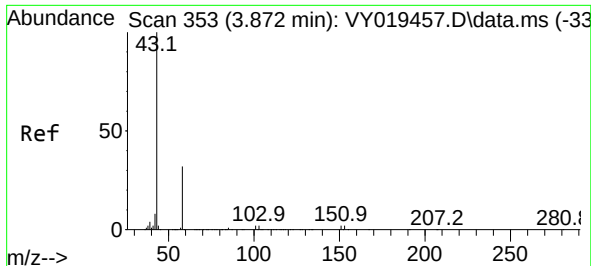
Tgt Ion: 59 Resp: 286
Ion Ratio Lower Upper
59 100
57 30.1 3.0 4.6#



#13
Acrolein
Concen: Below Cal
RT: 3.647 min Scan# 316
Delta R.T. -0.006 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 202.5 55.7 83.5#

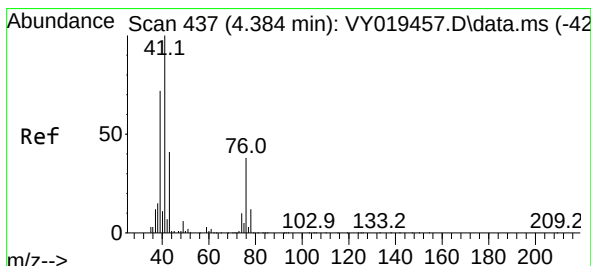
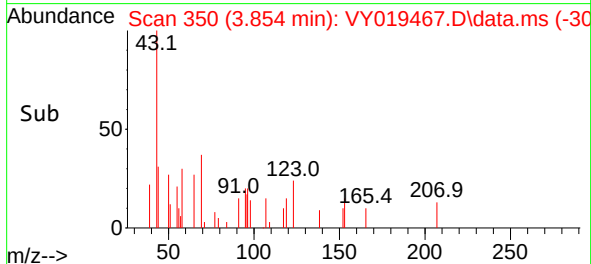
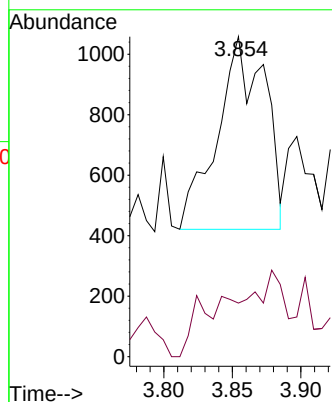
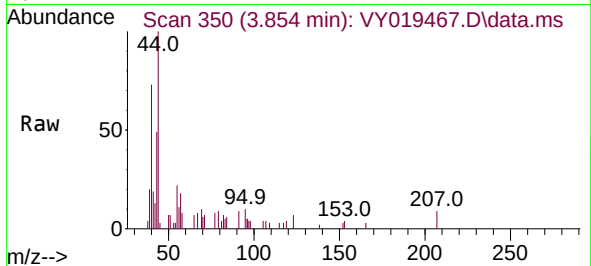




#16
Acetone
Concen: 9.866 ug/l
RT: 3.854 min Scan# 31
Delta R.T. -0.018 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

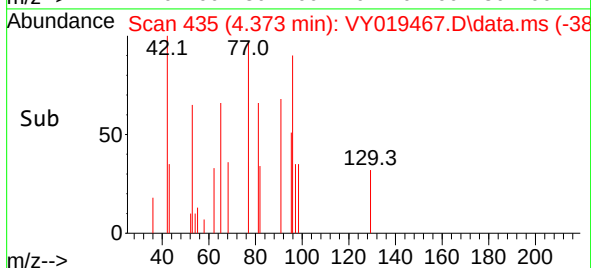
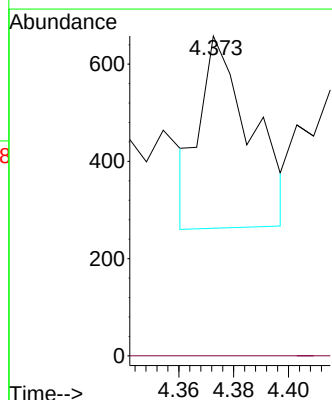
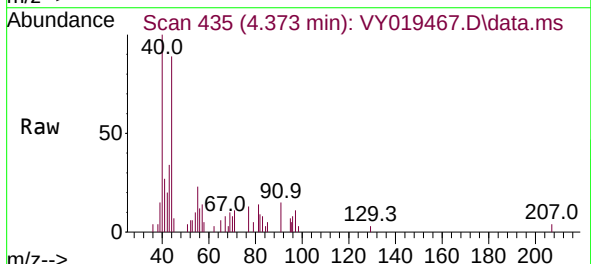
Instrument :
MSVOA_Y
ClientSampleId :

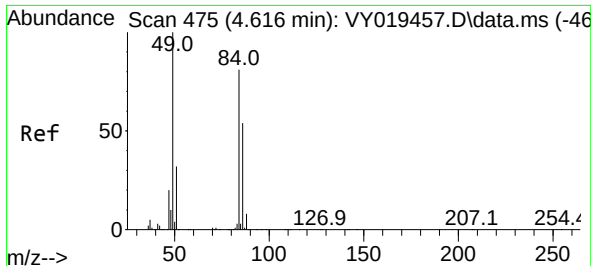
Tgt Ion: 43 Resp: 1540
Ion Ratio Lower Upper
43 100
58 27.8 31.7 47.5#



#18
Methyl Acetate
Concen: 1.197 ug/l
RT: 4.373 min Scan# 435
Delta R.T. -0.012 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Tgt Ion: 43 Resp: 507
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#





#20

Methylene Chloride

Concen: 1.926 ug/l

RT: 4.623 min Scan# 41

Delta R.T. 0.007 min

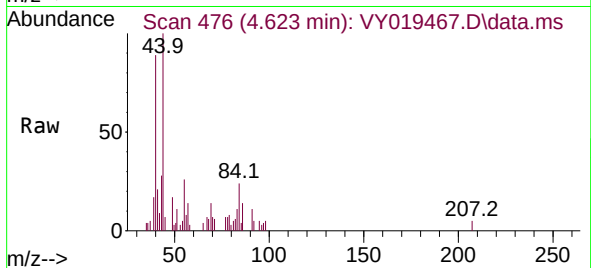
Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 1371

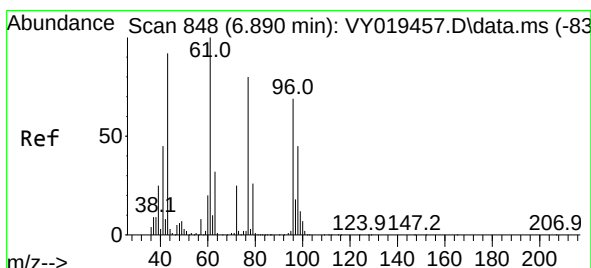
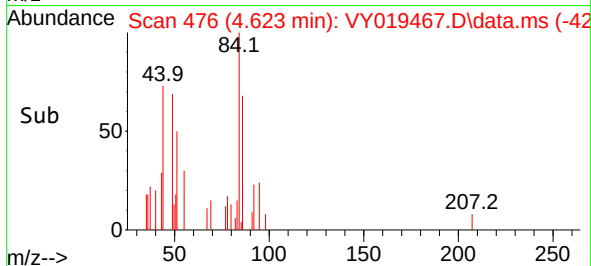
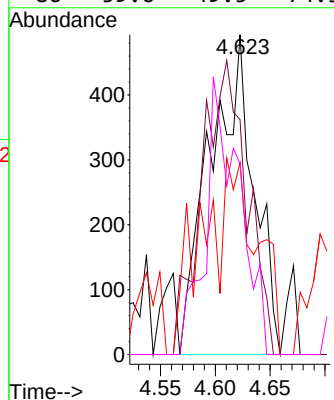
Ion Ratio Lower Upper

84 100

49 73.4 84.4 126.6#

51 60.0 26.0 39.0#

86 59.6 49.5 74.3



#25

2-Butanone

Concen: 2.189 ug/l

RT: 6.878 min Scan# 846

Delta R.T. -0.012 min

Lab File: VY019467.D

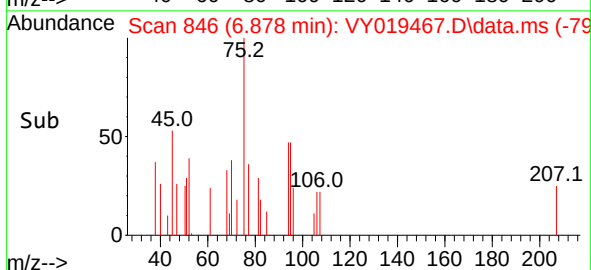
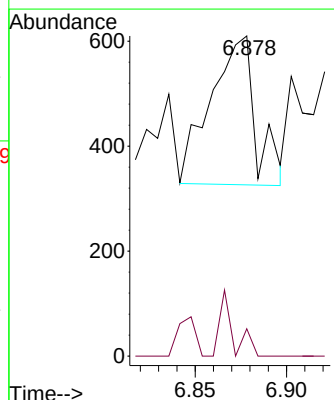
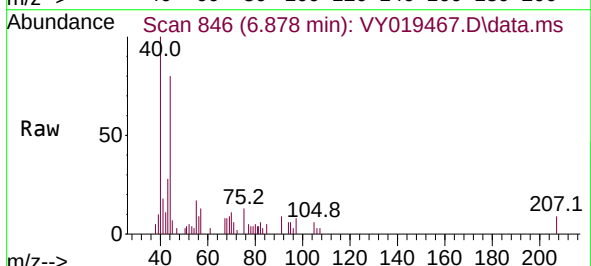
Acq: 09 Sep 2024 15:57

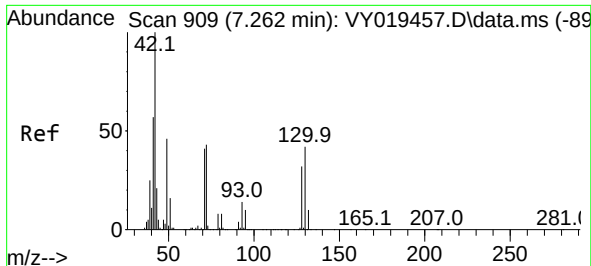
Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

43 100

72 18.6 27.3 40.9#





#29

Tetrahydrofuran

Concen: 1.600 ug/l

RT: 7.256 min Scan# 909

Delta R.T. -0.006 min

Lab File: VY019467.D

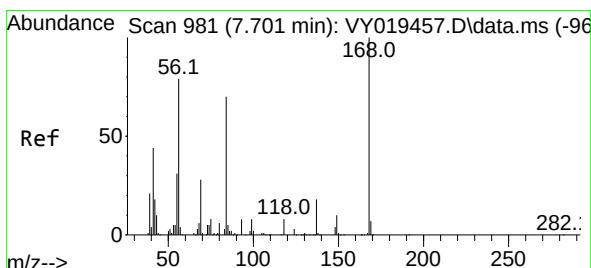
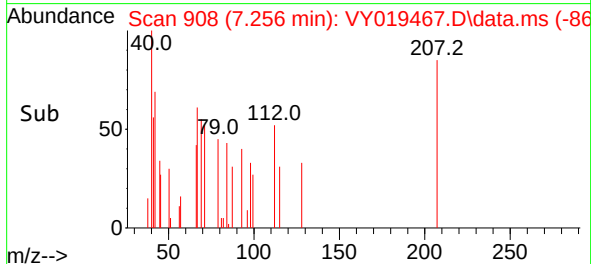
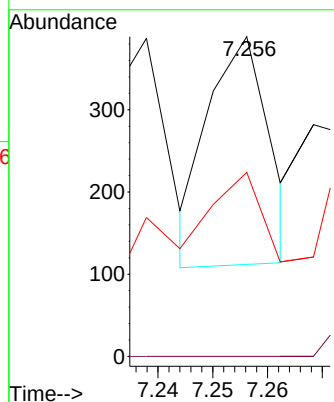
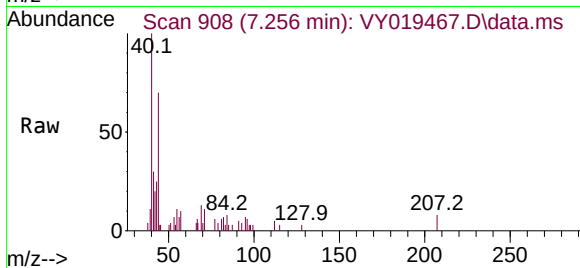
Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 42	Resp: 216
Ion Ratio	Lower Upper
42 100	
72 0.0	43.0 64.4#
71 94.0	40.8 61.2#



#31

Cyclohexane

Concen: 1.341 ug/l

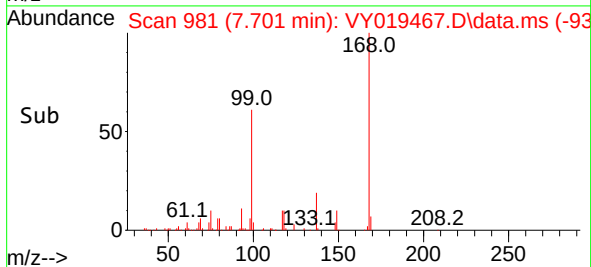
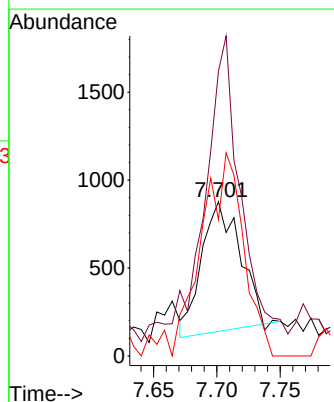
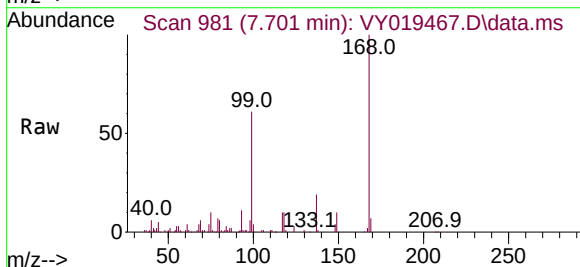
RT: 7.701 min Scan# 981

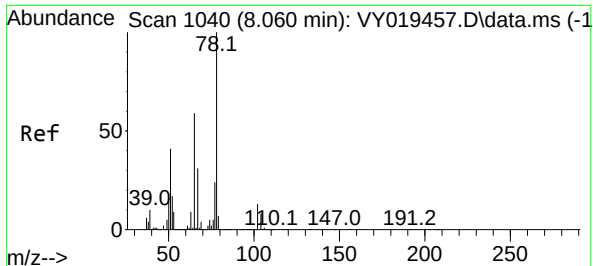
Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Tgt Ion: 56	Resp: 1572
Ion Ratio	Lower Upper
56 100	
69 207.2	28.7 43.1#
84 113.8	77.7 116.5





#33

1,2-Dichloroethane-d4

Concen: 44.167 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

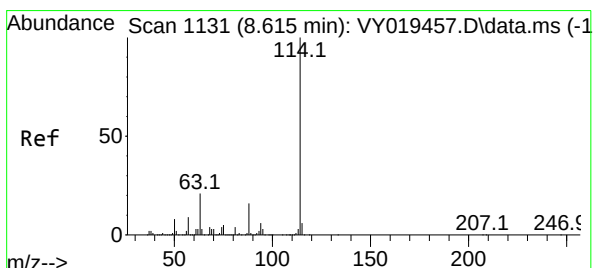
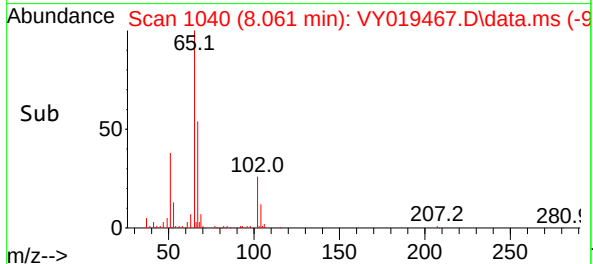
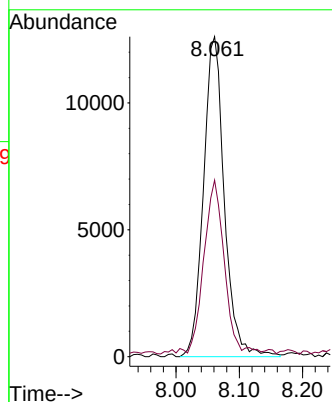
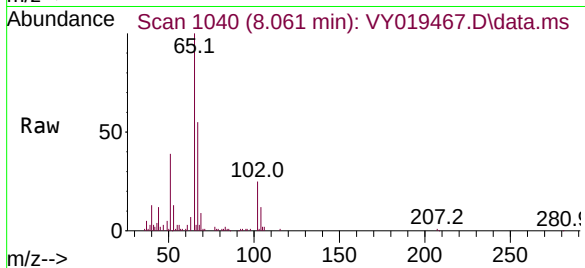
ClientSampleId :

Tgt Ion: 65 Resp: 28938

Ion Ratio Lower Upper

65 100

67 53.1 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

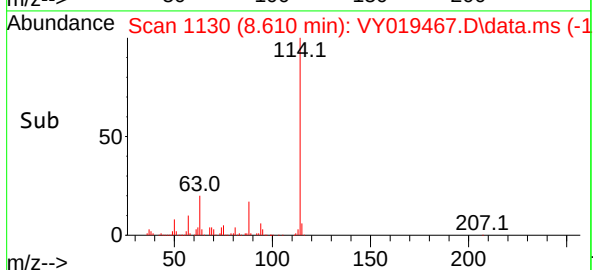
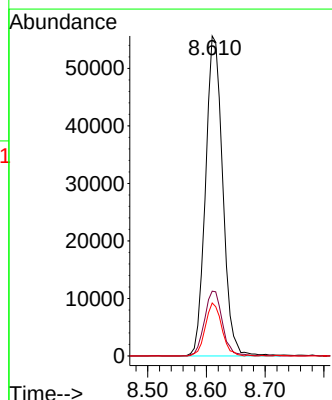
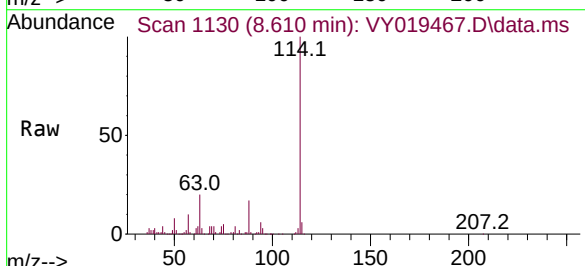
Tgt Ion: 114 Resp: 113138

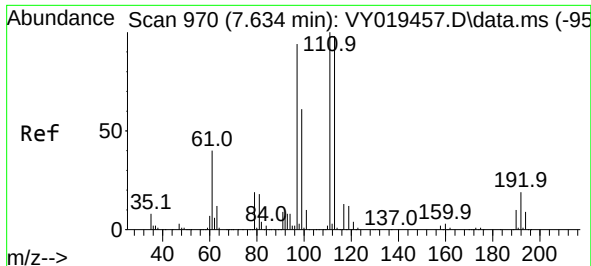
Ion Ratio Lower Upper

114 100

63 20.3 0.0 35.0

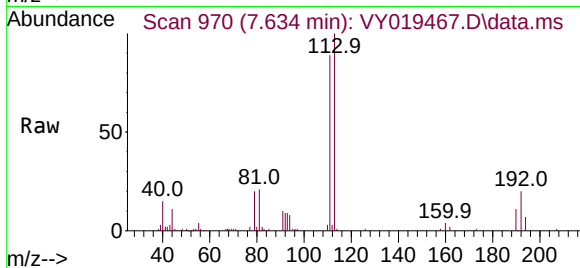
88 16.5 0.0 27.2



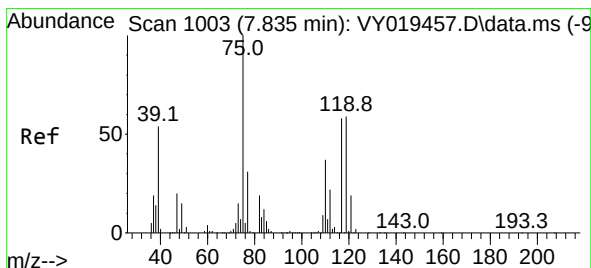
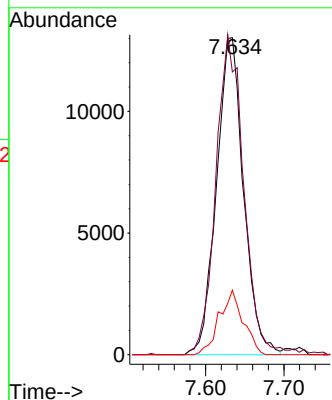
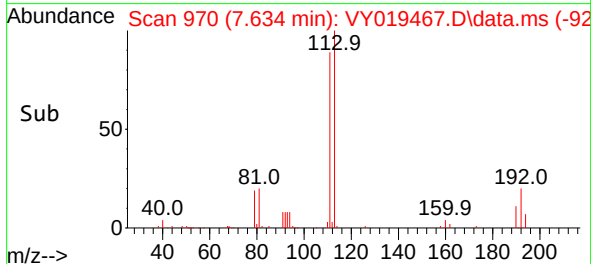


#35
Dibromofluoromethane
Concen: 48.839 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

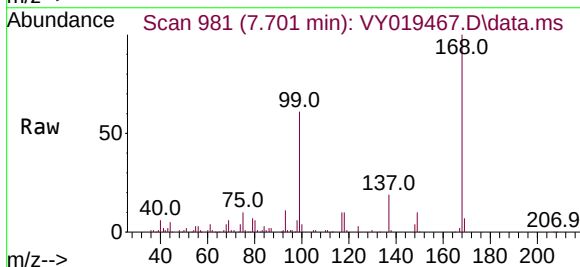
Instrument :
MSVOA_Y
ClientSampleId :



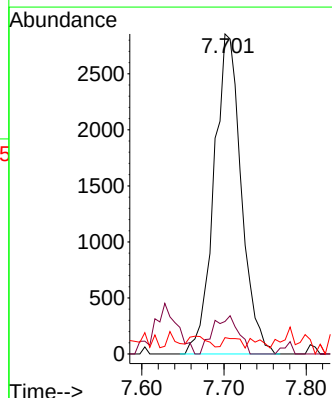
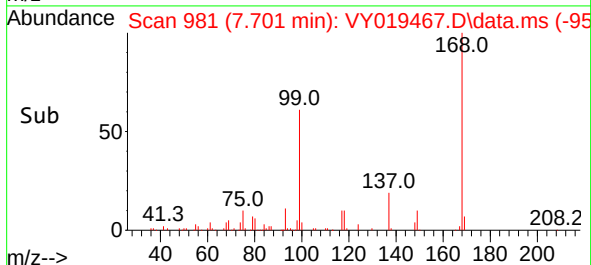
Tgt Ion:113 Resp: 31329
Ion Ratio Lower Upper
113 100
111 104.3 82.2 123.4
192 18.0 15.9 23.9

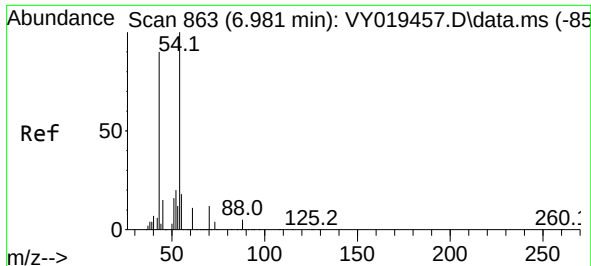


#36
1,1-Dichloropropene
Concen: 7.524 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57



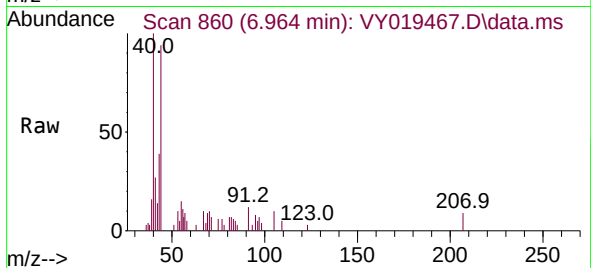
Tgt Ion: 75 Resp: 6567
Ion Ratio Lower Upper
75 100
110 11.2 19.0 57.0#
77 2.1 25.3 37.9#



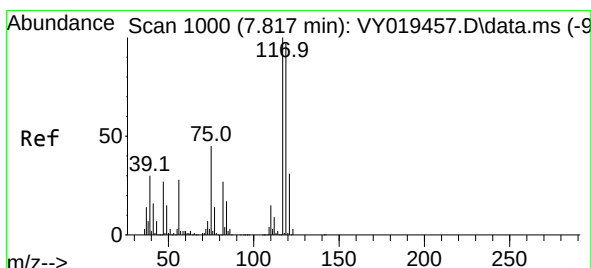
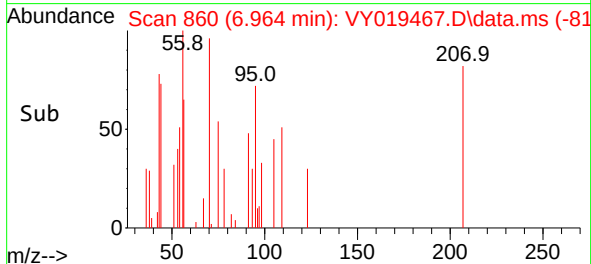
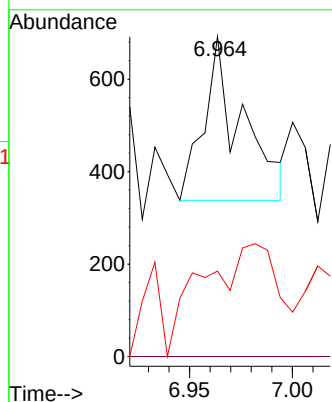


#37
Ethyl Acetate
Concen: 1.013 ug/l
RT: 6.964 min Scan# 80
Delta R.T. -0.018 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Instrument :
MSVOA_Y
ClientSampleId :

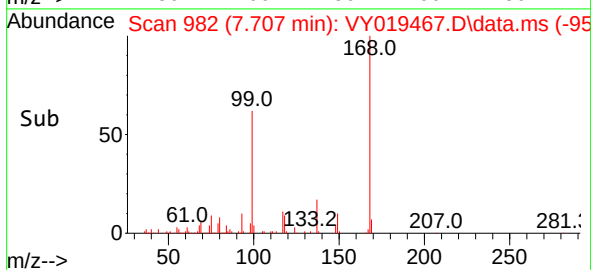
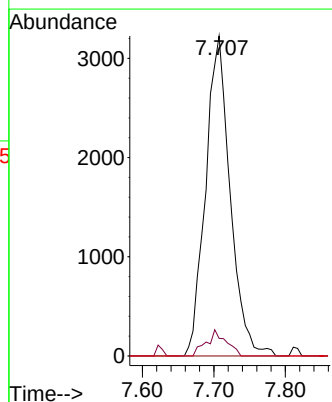
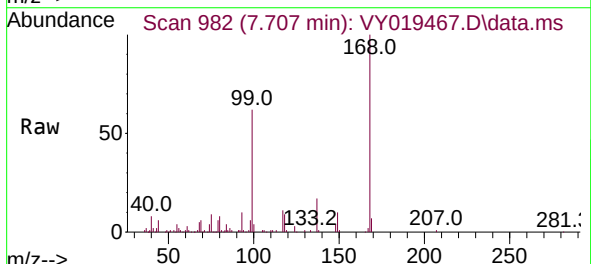


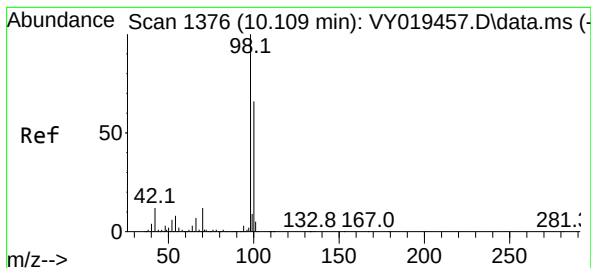
Tgt Ion: 43 Resp: 453
Ion Ratio Lower Upper
43 100
61 0.0 12.6 19.0#
70 140.4 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 7.825 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.109 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Tgt Ion: 117 Resp: 7702
Ion Ratio Lower Upper
117 100
119 5.5 75.8 113.6#
121 0.0 24.0 36.0#

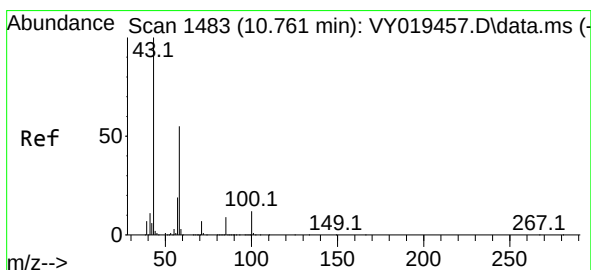
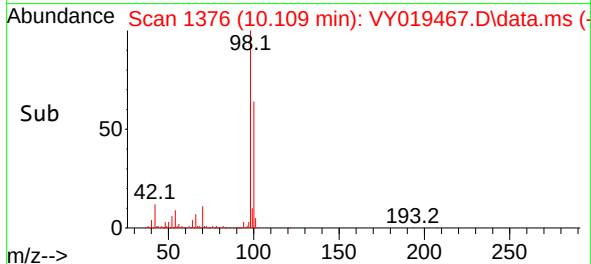
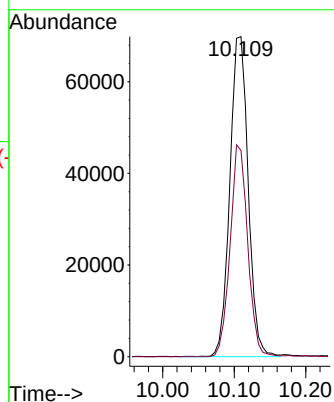
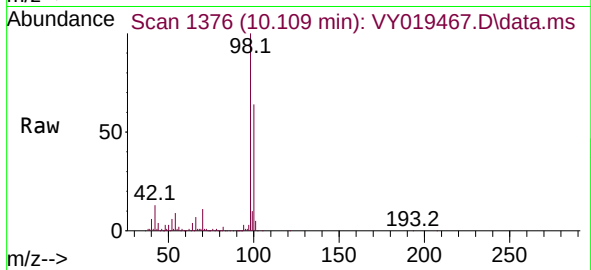




#50
Toluene-d8
Concen: 52.438 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

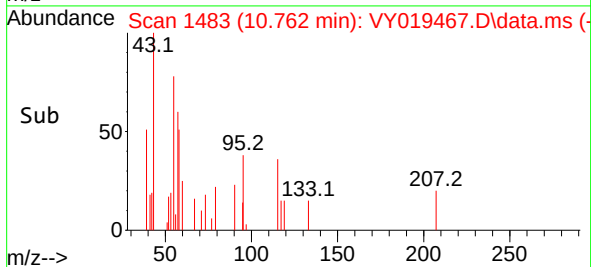
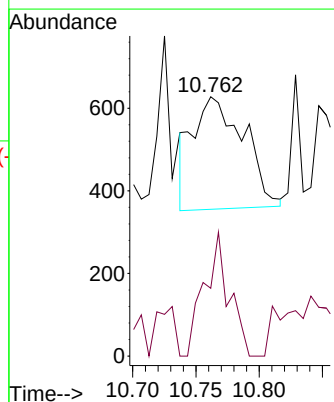
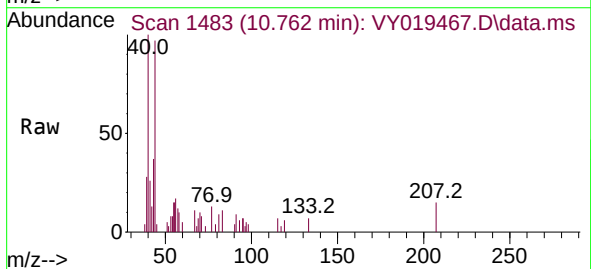
Instrument :
MSVOA_Y
ClientSampleId :

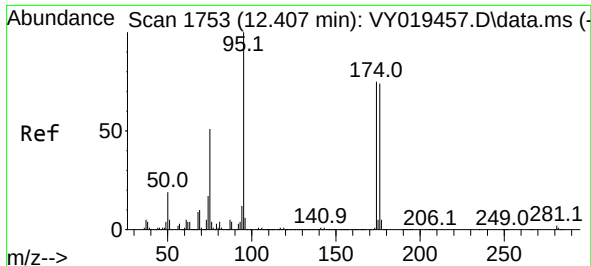
Tgt Ion: 98 Resp: 124418
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#59
2-Hexanone
Concen: 2.205 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. 0.000 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Tgt Ion: 43 Resp: 764
Ion Ratio Lower Upper
43 100
58 53.4 31.4 94.0





#62

4-Bromofluorobenzene

Concen: 34.444 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

ClientSampleId :

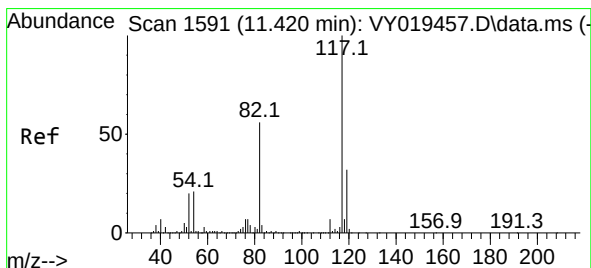
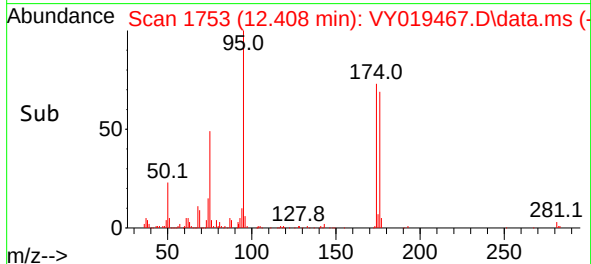
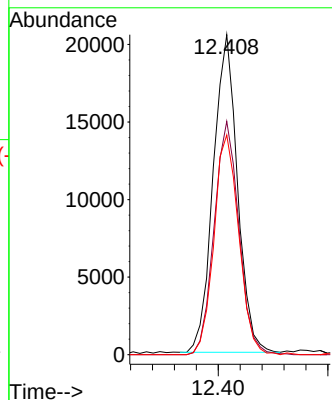
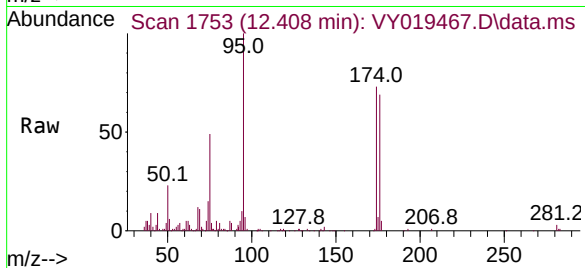
Tgt Ion: 95 Resp: 31423

Ion Ratio Lower Upper

95 100

174 75.0 0.0 175.6

176 70.8 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: VY019467.D

Acq: 09 Sep 2024 15:57

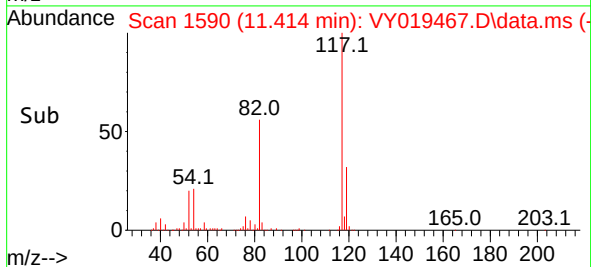
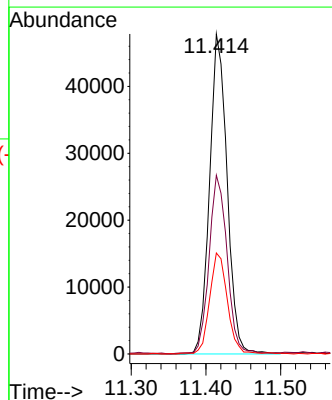
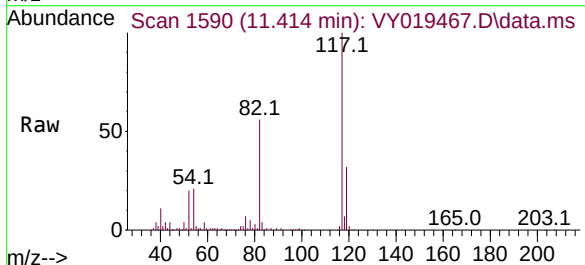
Tgt Ion: 117 Resp: 77953

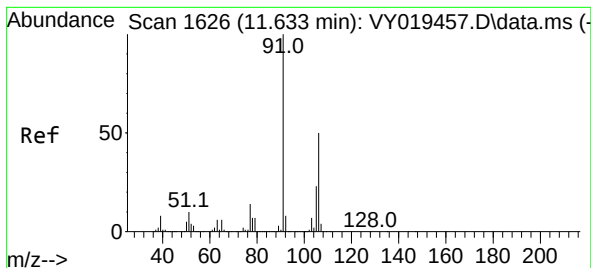
Ion Ratio Lower Upper

117 100

82 55.6 42.4 63.6

119 31.4 25.9 38.9





#68

m/p-Xylenes

Concen: 1.008 ug/l

RT: 11.621 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

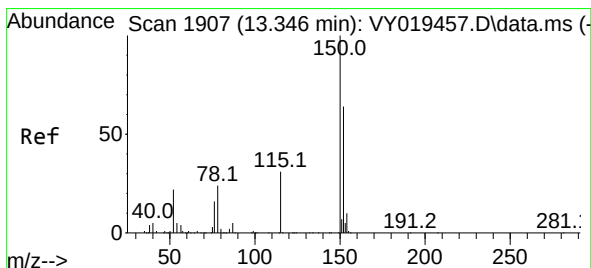
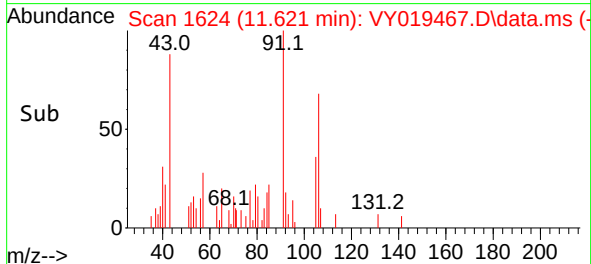
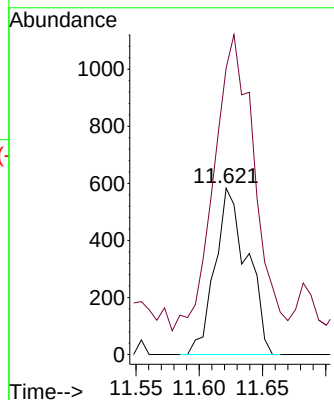
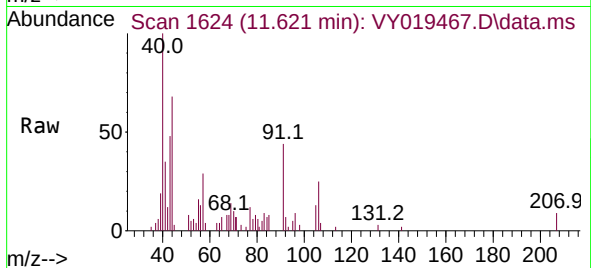
ClientSampleId :

Tgt Ion:106 Resp: 1038

Ion Ratio Lower Upper

106 100

91 218.0 156.0 234.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

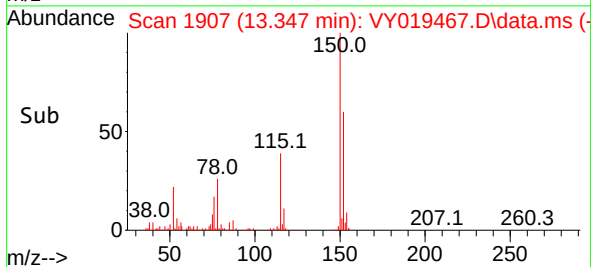
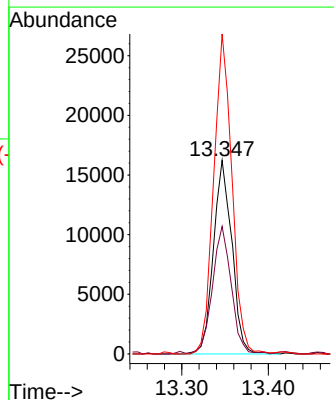
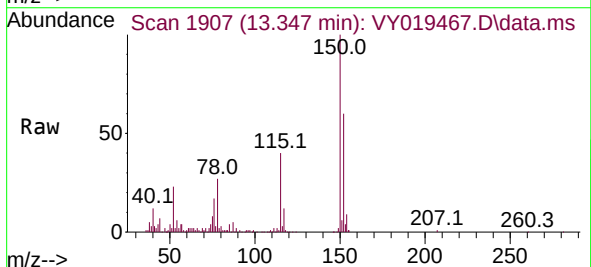
Tgt Ion:152 Resp: 24059

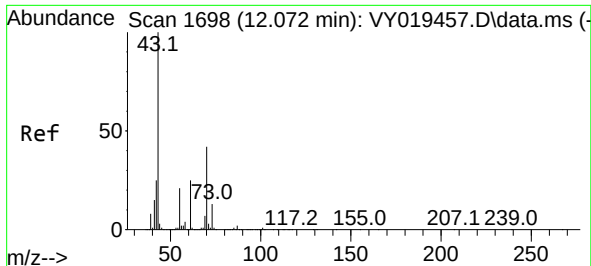
Ion Ratio Lower Upper

152 100

115 65.8 28.2 84.7

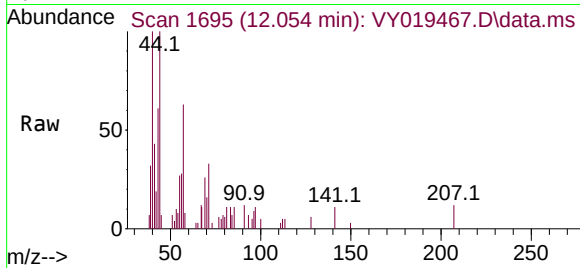
150 163.2 0.0 345.6



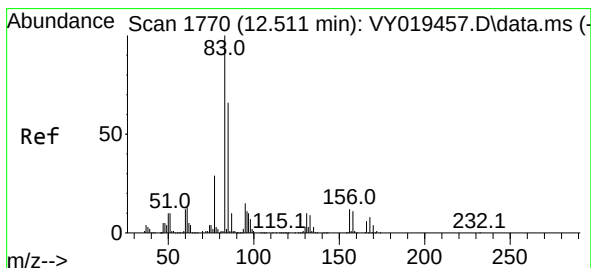
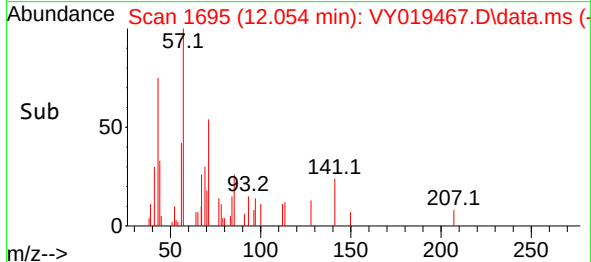
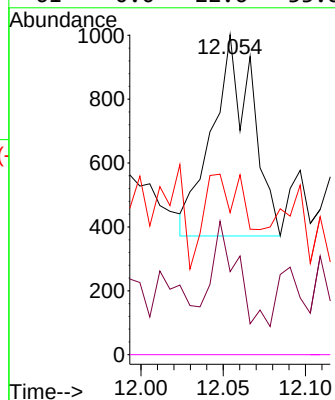


#74
N-amy1 acetate
Concen: 2.239 ug/l
RT: 12.054 min Scan# 1765
Delta R.T. -0.018 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Instrument :
MSVOA_Y
ClientSampleId :

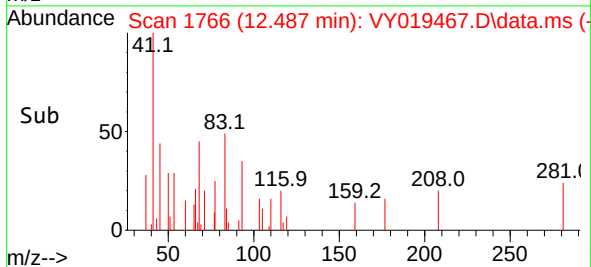
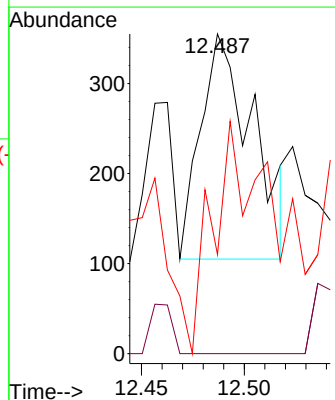
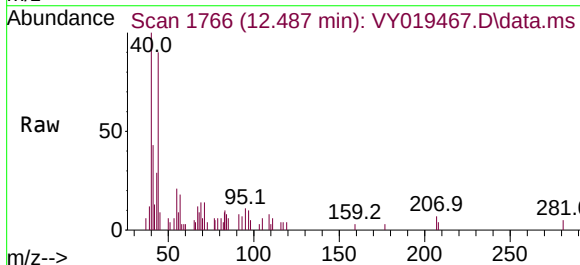


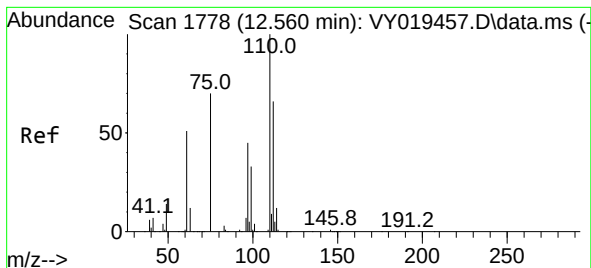
Tgt Ion: 43 Resp: 1063
Ion Ratio Lower Upper
43 100
70 31.5 41.4 62.2#
55 48.9 23.3 34.9#
61 0.0 22.6 33.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.430 ug/l
RT: 12.487 min Scan# 1766
Delta R.T. -0.024 min
Lab File: VY019467.D
Acq: 09 Sep 2024 15:57

Tgt Ion: 83 Resp: 443
Ion Ratio Lower Upper
83 100
131 0.0 5.0 14.9#
85 121.4 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 75.050 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

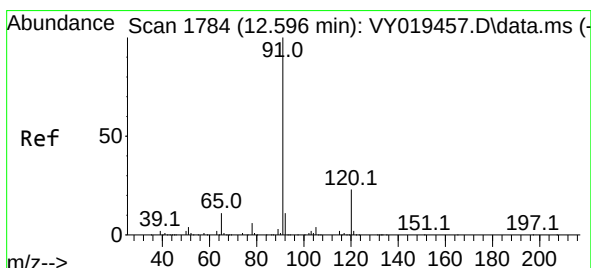
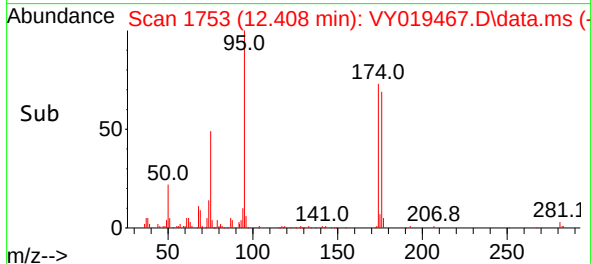
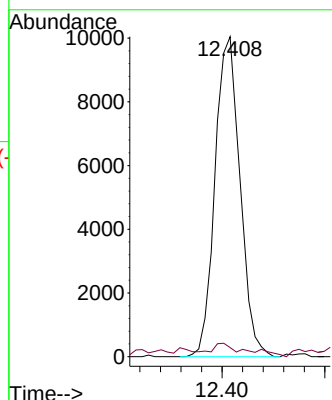
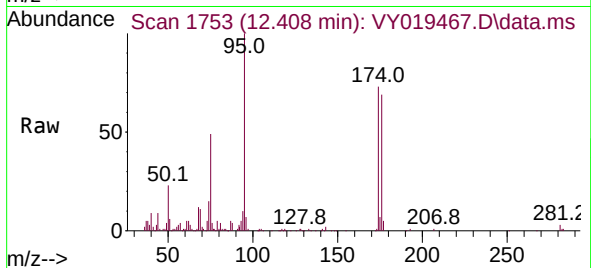
ClientSampleId :

Tgt Ion: 75 Resp: 16924

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#



#78

n-propylbenzene

Concen: 1.043 ug/l

RT: 12.591 min Scan# 1783

Delta R.T. -0.006 min

Lab File: VY019467.D

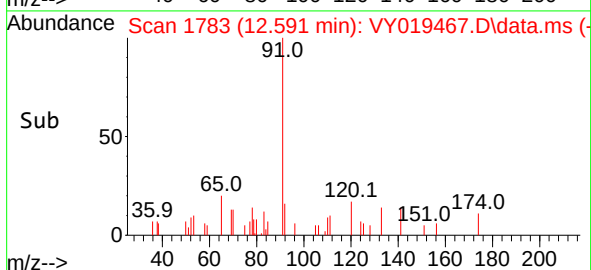
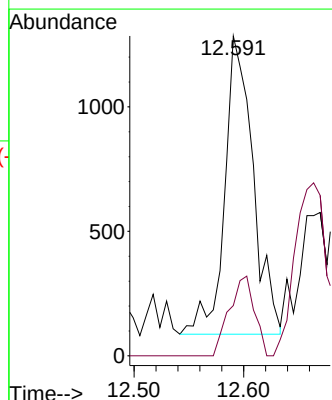
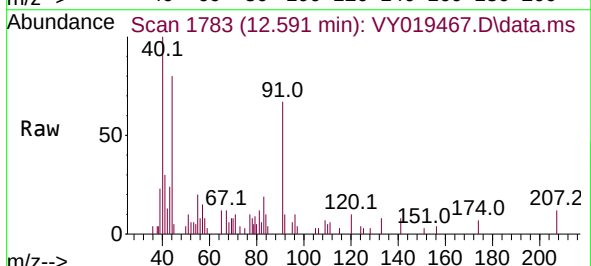
Acq: 09 Sep 2024 15:57

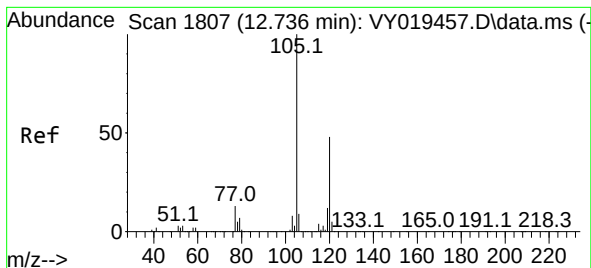
Tgt Ion: 91 Resp: 2157

Ion Ratio Lower Upper

91 100

120 23.5 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 1.794 ug/l

RT: 12.737 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

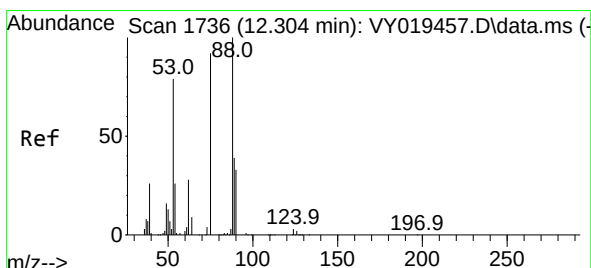
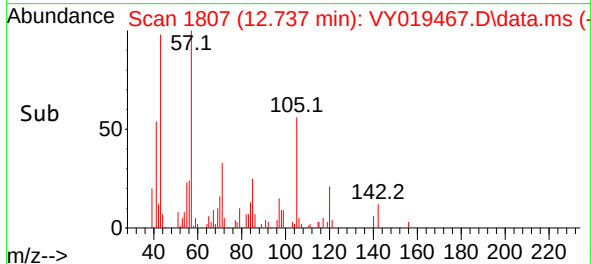
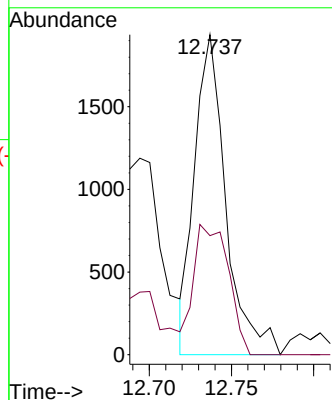
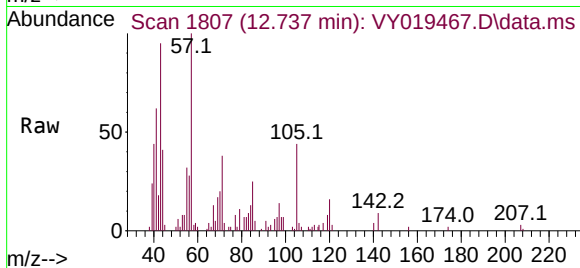
ClientSampleId :

Tgt Ion:105 Resp: 2545

Ion Ratio Lower Upper

105 100

120 45.5 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 144.074 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

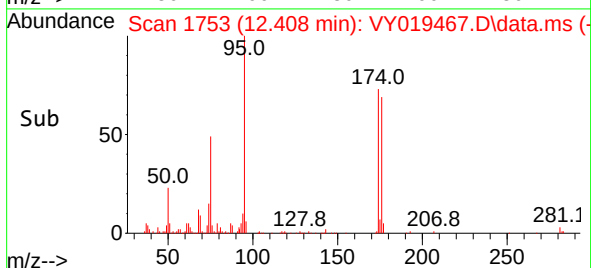
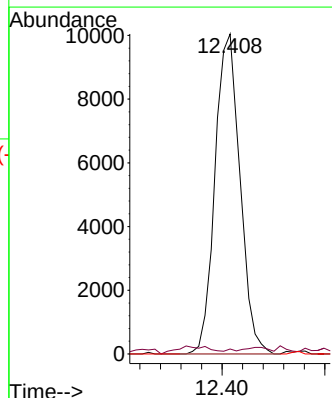
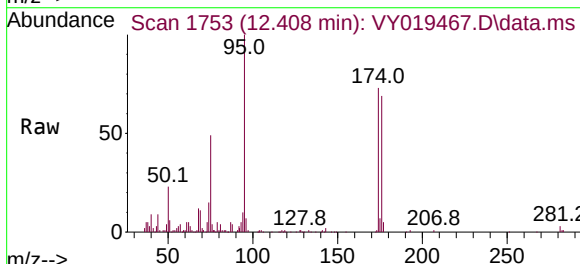
Tgt Ion: 75 Resp: 16924

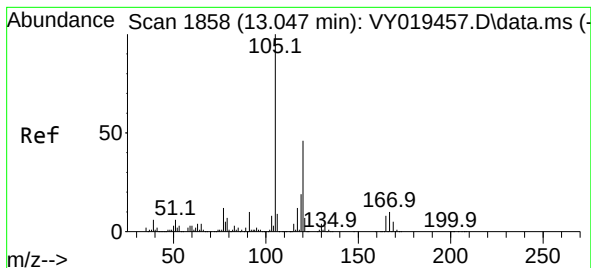
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 4.205 ug/l

RT: 13.042 min Scan# 1858

Delta R.T. -0.006 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

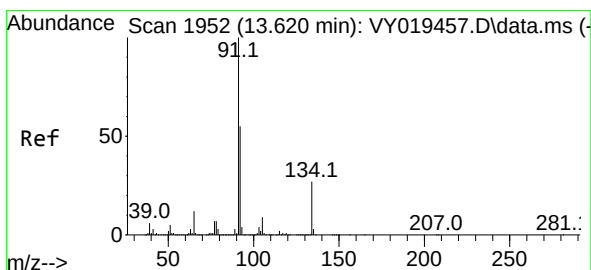
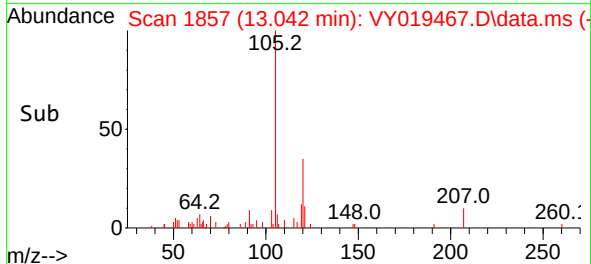
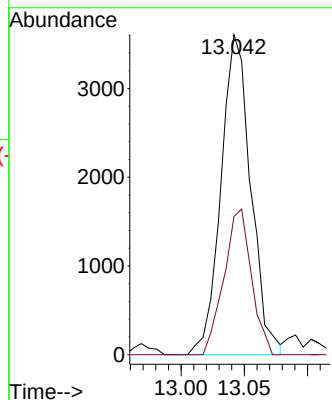
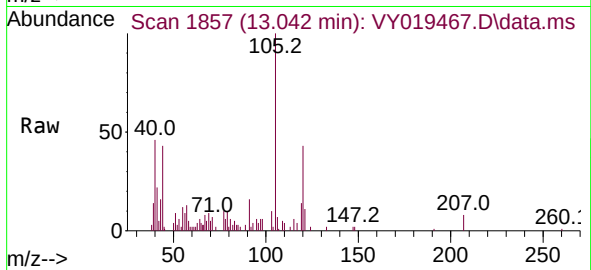
ClientSampleId :

Tgt Ion:105 Resp: 5906

Ion Ratio Lower Upper

105 100

120 41.9 23.2 69.6



#89

n-Butylbenzene

Concen: 1.263 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

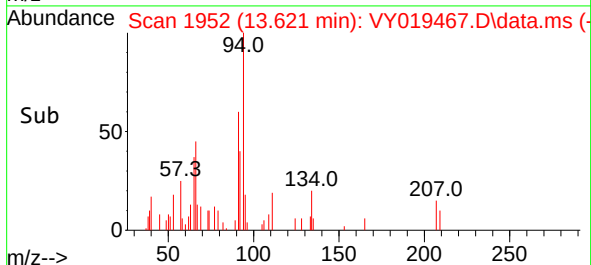
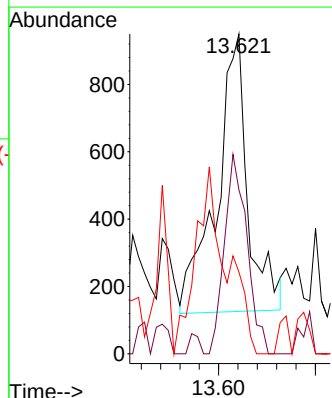
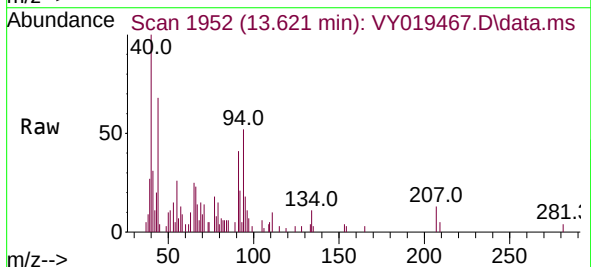
Tgt Ion: 91 Resp: 1843

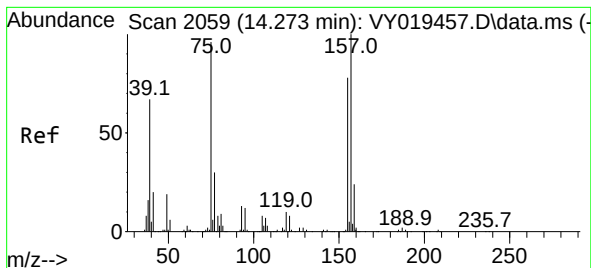
Ion Ratio Lower Upper

91 100

92 52.0 26.6 79.7

134 0.0 12.9 38.7#

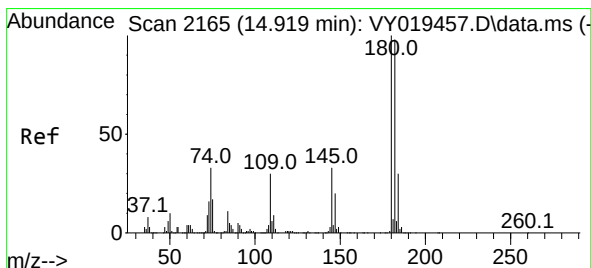
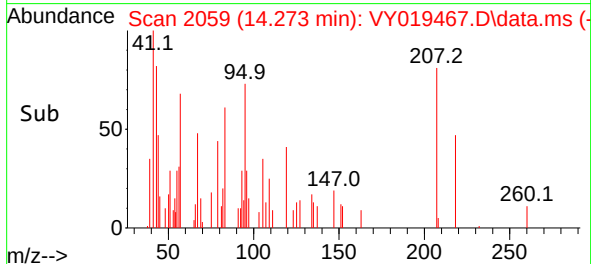
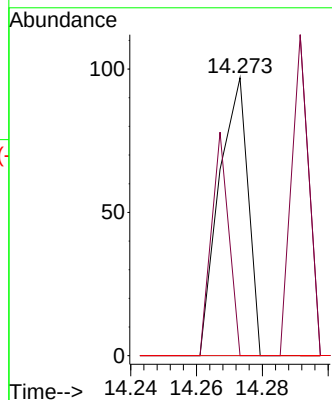
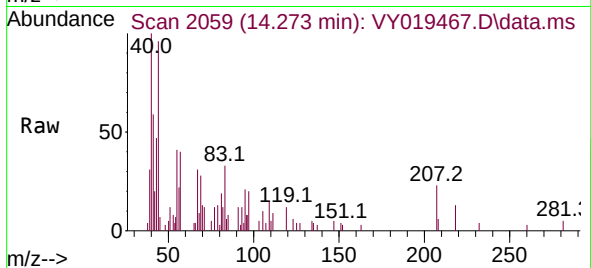




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.143 ug/l
 RT: 14.273 min Scan# 2059
 Delta R.T. 0.000 min
 Lab File: VY019467.D
 Acq: 09 Sep 2024 15:57

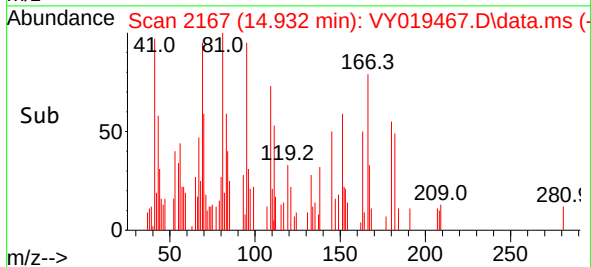
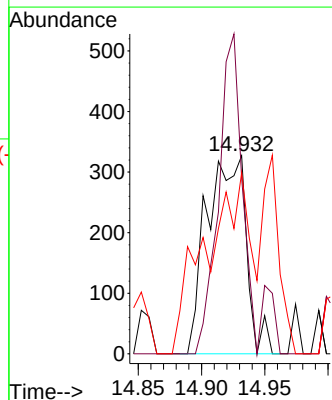
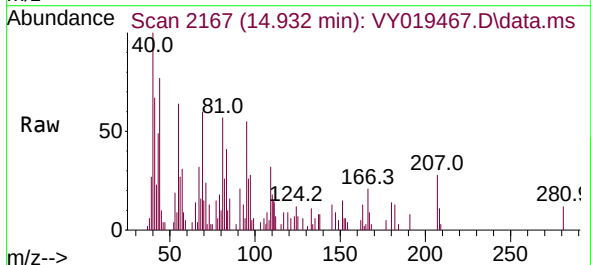
Instrument :
 MSVOA_Y
 ClientSampleId :

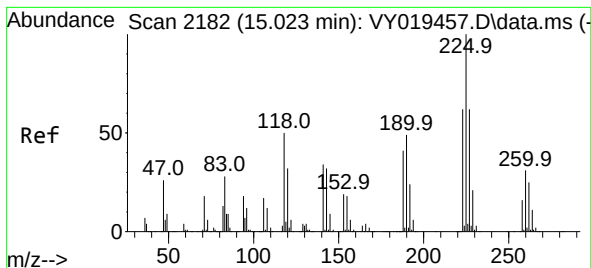
Tgt Ion: 75 Resp: 59
 Ion Ratio Lower Upper
 75 100
 155 49.2 48.6 145.8
 157 0.0 62.7 188.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.734 ug/l
 RT: 14.932 min Scan# 2167
 Delta R.T. 0.013 min
 Lab File: VY019467.D
 Acq: 09 Sep 2024 15:57

Tgt Ion: 180 Resp: 708
 Ion Ratio Lower Upper
 180 100
 182 96.5 47.9 143.8
 145 104.1 14.2 42.6#





#94

Hexachlorobutadiene

Concen: 2.036 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.000 min

Lab File: VY019467.D

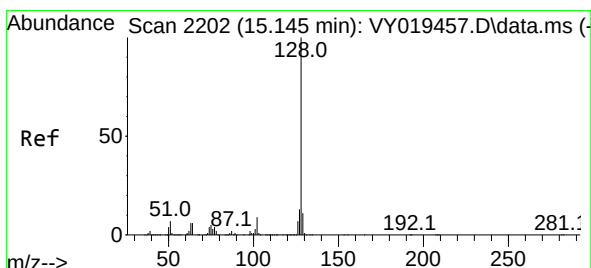
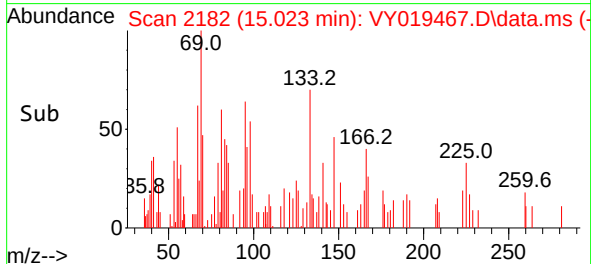
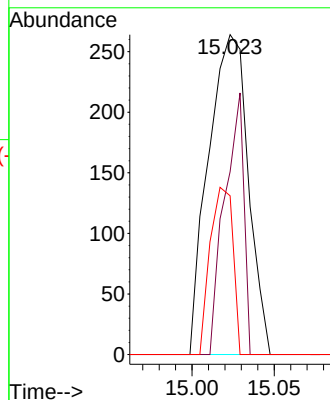
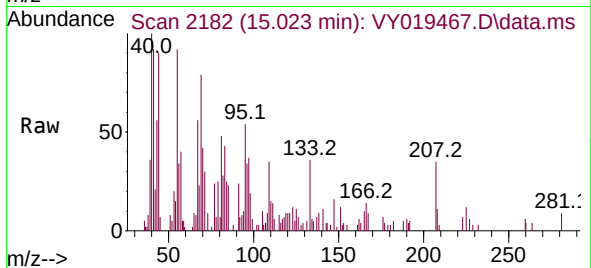
Acq: 09 Sep 2024 15:57

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	225	Resp:	444
Ion Ratio	Lower	Upper	
225	100		
223	39.4	30.4	91.2
227	29.7	31.9	95.9#



#95

Naphthalene

Concen: 3.276 ug/l

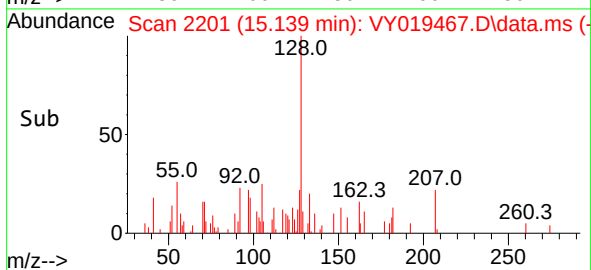
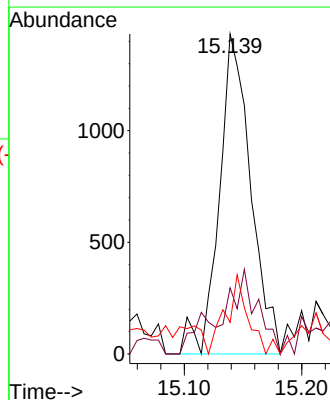
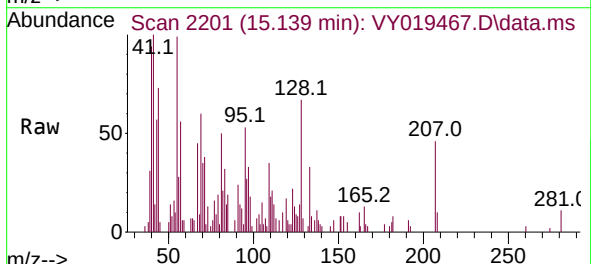
RT: 15.139 min Scan# 2201

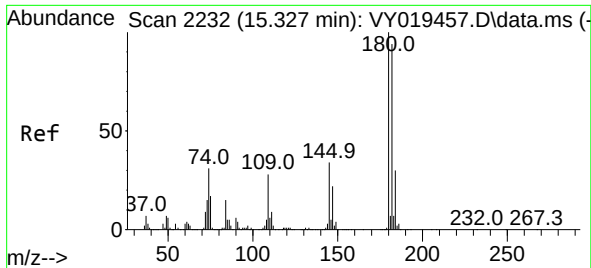
Delta R.T. -0.006 min

Lab File: VY019467.D

Acq: 09 Sep 2024 15:57

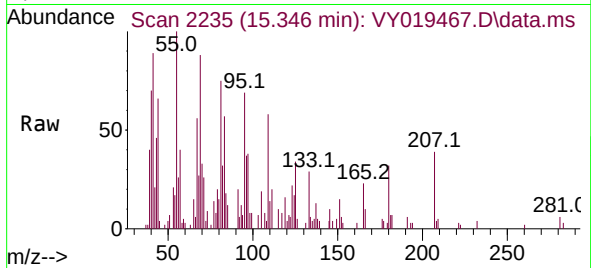
Tgt Ion:	128	Resp:	2678
Ion Ratio	Lower	Upper	
128	100		
127	22.6	10.6	16.0#
129	17.7	8.6	13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.686 ug/l
 RT: 15.346 min Scan# 21
 Delta R.T. 0.019 min
 Lab File: VY019467.D
 Acq: 09 Sep 2024 15:57

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	180	Resp:	938
Ion Ratio	Lower	Upper	
180	100		
182	0.0	47.6	142.9#
145	0.0	15.4	46.1#

