

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY010323\
 Data File : VY012046.D
 Acq On : 03 Jan 2023 14:58
 Operator : KP/MD
 Sample : 01001-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-C2

Quant Time: Jan 04 01:18:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122022S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 20 12:37:37 2022
 Response via : Initial Calibration

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

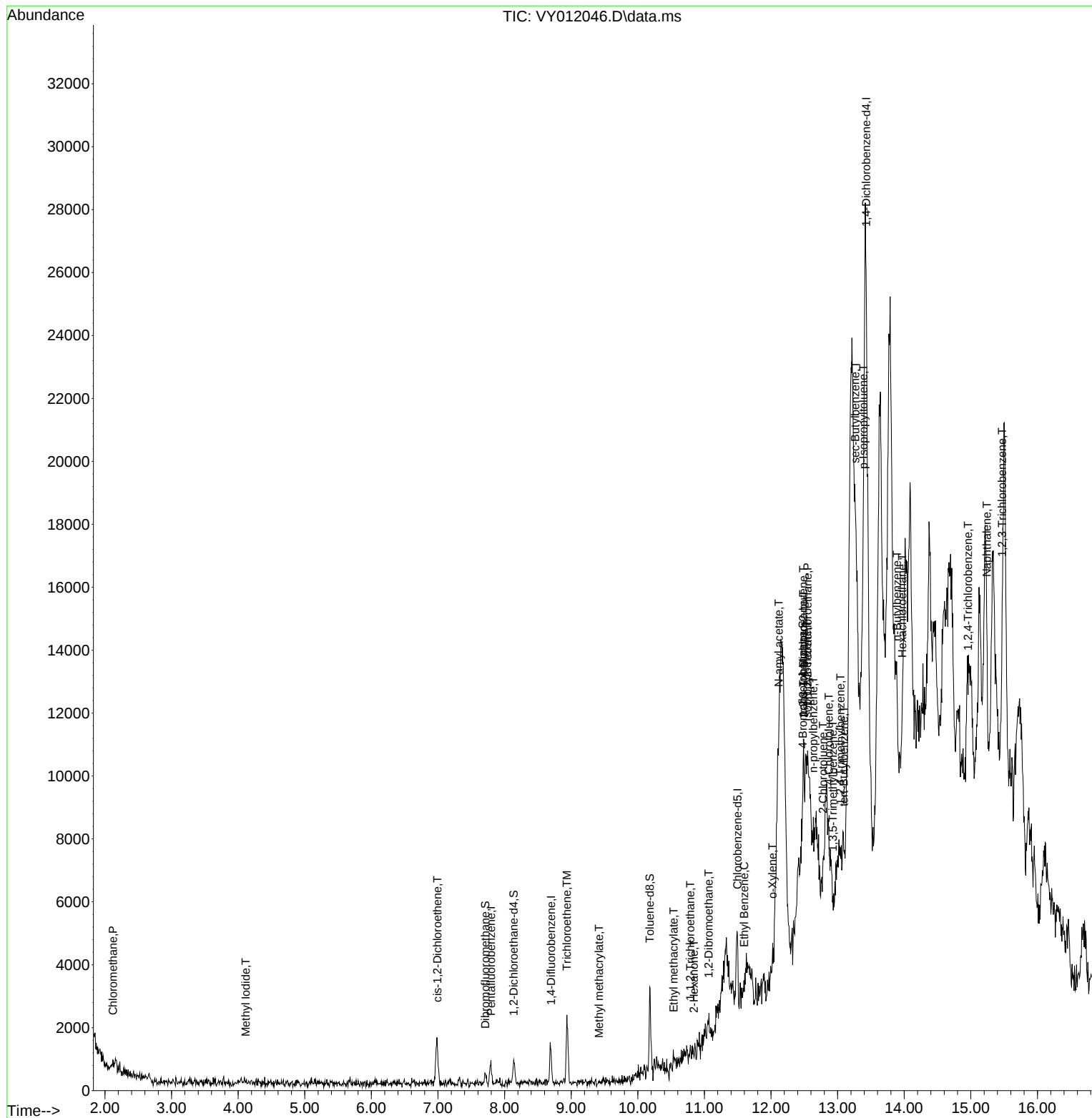
Internal Standards						
1) Pentafluorobenzene	7.795	168	849	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.697	114	1598	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	1423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	745	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	765	89.437	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 178.880%#	
35) Dibromofluoromethane	7.710	113	228	23.700	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 47.400%#	
50) Toluene-d8	10.179	98	1856	47.550	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 95.100%	
62) 4-Bromofluorobenzene	12.477	95	849	64.674	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 129.340%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	44	5.823	ug/l	# 41
10) Methyl Iodide	4.113	142	192	17.281	ug/l	# 69
27) cis-1,2-Dichloroethene	6.990	96	1100	111.432	ug/l	81
44) Trichloroethene	8.935	130	897	72.063	ug/l	91
48) Methyl methacrylate	9.417	41	44	7.516	ug/l	# 10
55) 1,1,2-Trichloroethane	10.788	97	60	7.194	ug/l	# 44
56) Ethyl methacrylate	10.538	69	205	19.413	ug/l	# 55
59) 2-Hexanone	10.843	43	25	5.040	ug/l	# 23
61) 1,2-Dibromoethane	11.063	107	112	14.353	ug/l	86
67) Ethyl Benzene	11.599	91	191	3.576	ug/l	# 43
69) o-Xylene	12.026	106	38	1.966	ug/l	# 1
73) Isopropylbenzene	12.544	105	120	2.171	ug/l	86
74) N-amyl acetate	12.117	43	438	38.645	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.550	83	98	10.626	ug/l	# 26
76) 1,2,3-Trichloropropane	12.483	75	179	19.309	ug/l	# 100
78) n-propylbenzene	12.636	91	229	3.446	ug/l	89
79) 2-Chlorotoluene	12.782	91	160	4.283	ug/l	# 40
80) 1,3,5-Trimethylbenzene	12.928	105	55	1.162	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.483	75	179	52.878	ug/l	# 13
82) 4-Chlorotoluene	12.867	91	84	2.173	ug/l	# 41
83) tert-Butylbenzene	13.093	119	249	6.207	ug/l	# 78
84) 1,2,4-Trimethylbenzene	13.044	105	95	2.040	ug/l	98
85) sec-Butylbenzene	13.263	105	107	1.786	ug/l	# 56
86) p-Isopropyltoluene	13.385	119	240	4.748	ug/l	# 2
89) n-Butylbenzene	13.891	91	202	4.415	ug/l	84
90) Hexachloroethane	13.971	117	134	13.895	ug/l	# 9
93) 1,2,4-Trichlorobenzene	14.958	180	21	1.592	ug/l	# 1
95) Naphthalene	15.239	128	166	8.492	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.470	180	19	1.704	ug/l	# 1

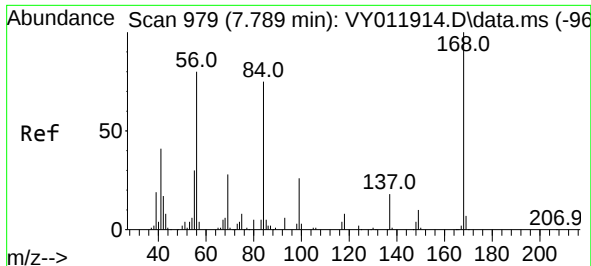
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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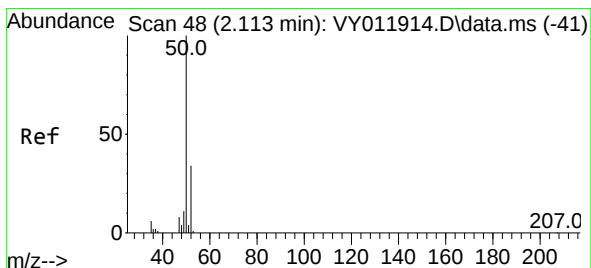
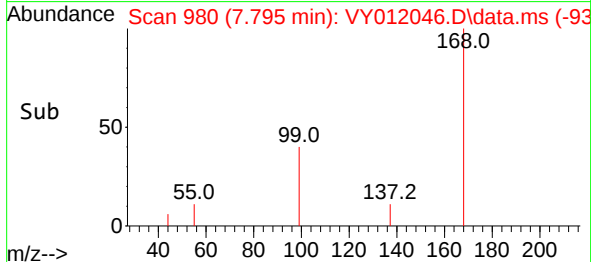
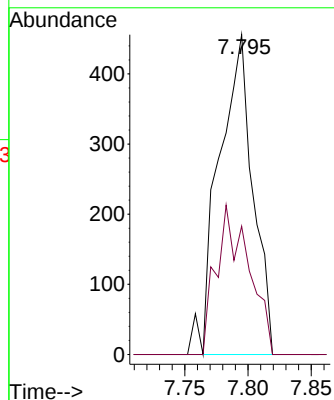
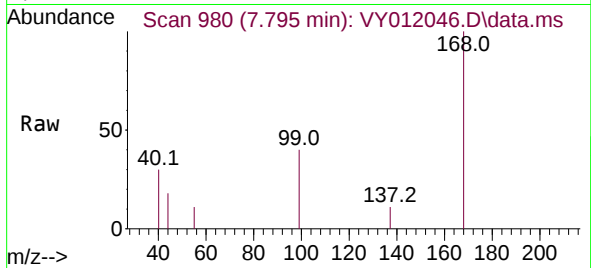




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

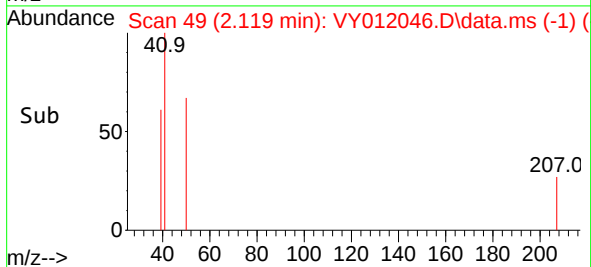
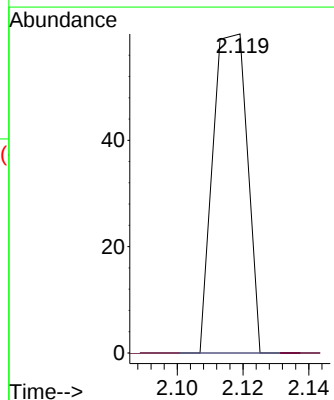
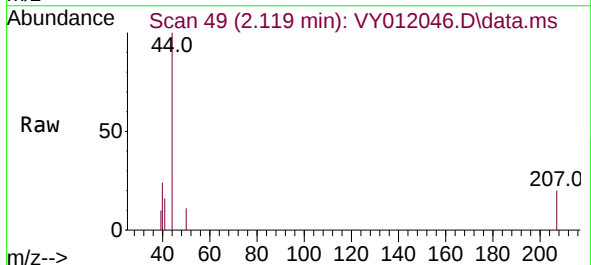
Instrument :
MSVOA_Y
ClientSampleId :
TP-C2

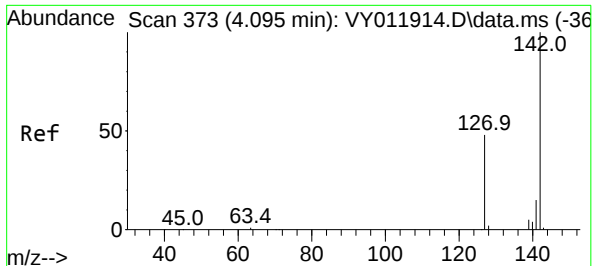
Tgt Ion:168 Resp: 849
Ion Ratio Lower Upper
168 100
99 40.1 44.0 66.0#



#3
Chloromethane
Concen: 5.823 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 50 Resp: 44
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

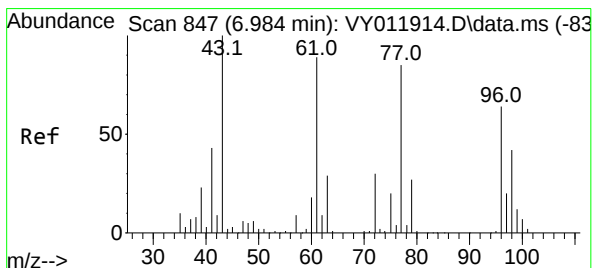
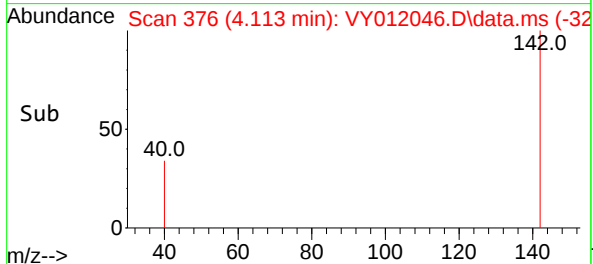
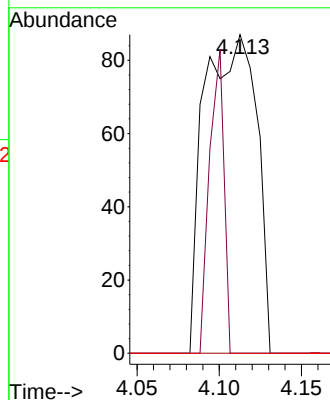
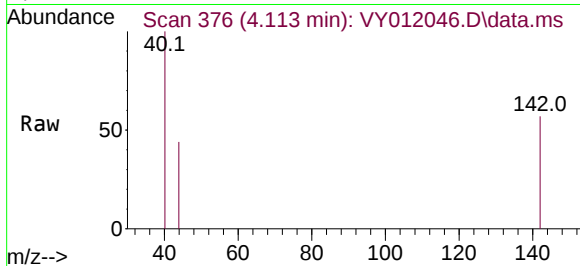




#10
Methyl Iodide
Concen: 17.281 ug/l
RT: 4.113 min Scan# 31
Delta R.T. 0.018 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

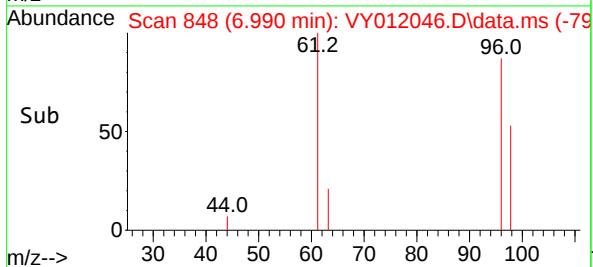
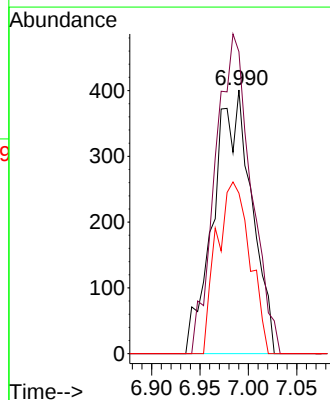
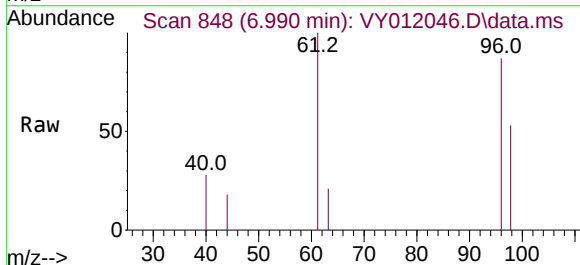
Instrument :
MSVOA_Y
ClientSampleId :
TP-C2

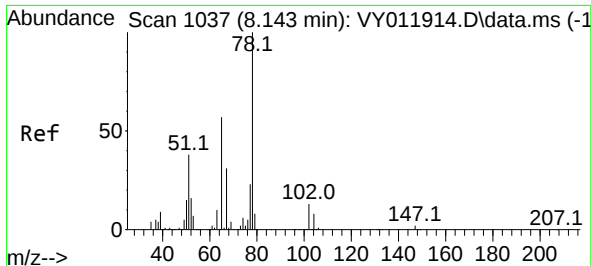
Tgt Ion:142 Resp: 192
Ion Ratio Lower Upper
142 100
127 26.6 37.0 55.4#
141 0.0 11.4 17.0#



#27
cis-1,2-Dichloroethene
Concen: 111.432 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 96 Resp: 1100
Ion Ratio Lower Upper
96 100
61 113.7 0.0 283.4
98 56.8 0.0 127.6





#33

1,2-Dichloroethane-d4

Concen: 89.437 ug/l

RT: 8.136 min Scan# 1

Delta R.T. -0.007 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

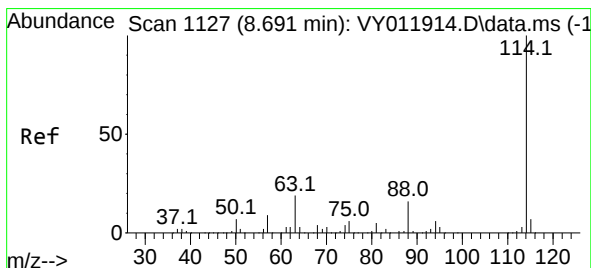
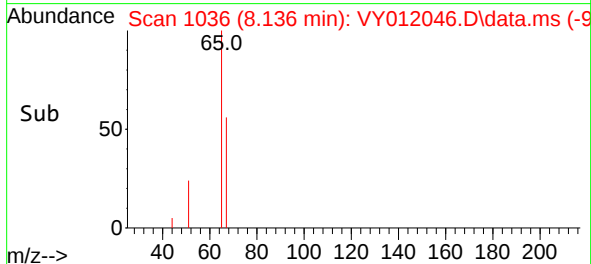
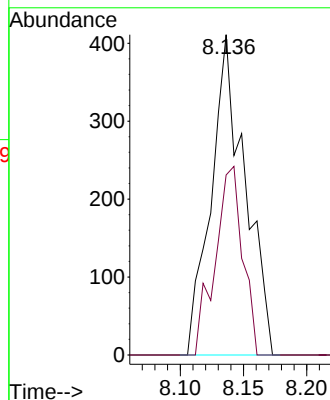
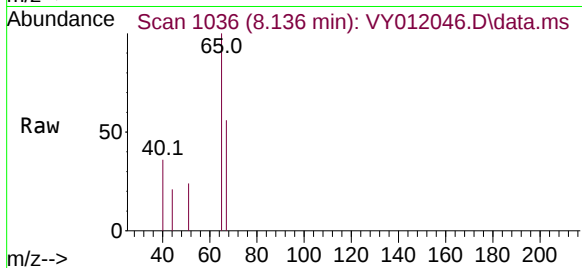
TP-C2

Tgt Ion: 65 Resp: 765

Ion Ratio Lower Upper

65 100

67 48.0 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

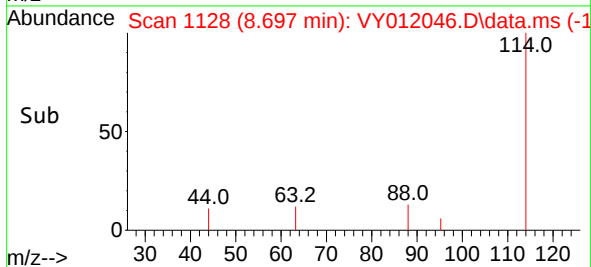
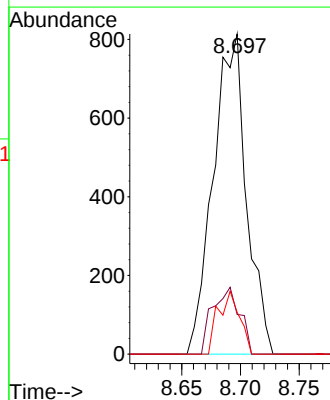
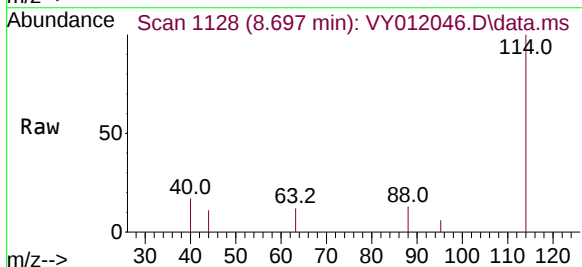
Tgt Ion: 114 Resp: 1598

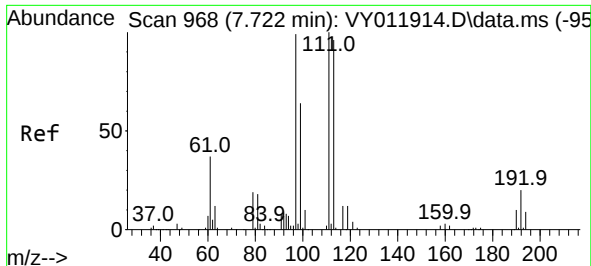
Ion Ratio Lower Upper

114 100

63 12.4 0.0 39.6

88 13.0 0.0 32.2

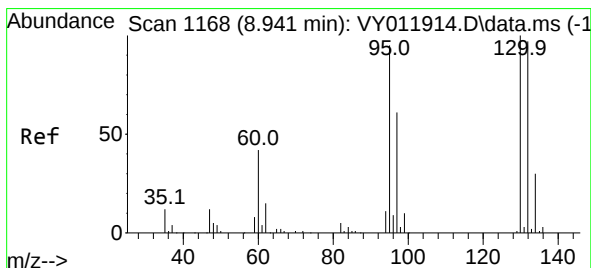
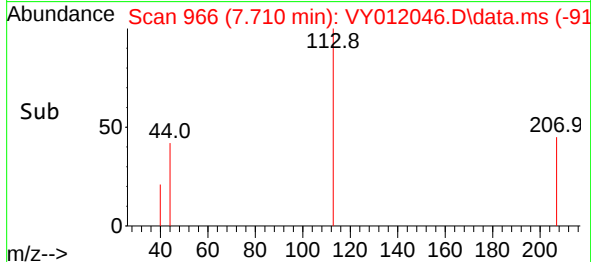
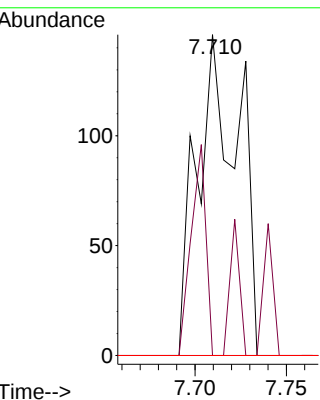
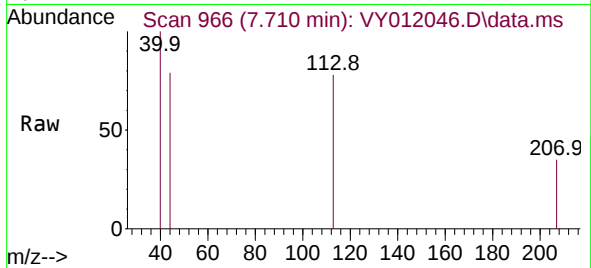




#35
Dibromofluoromethane
Concen: 23.700 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

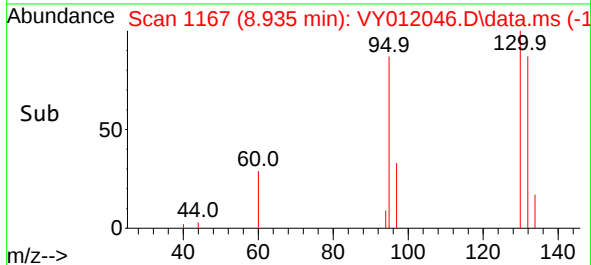
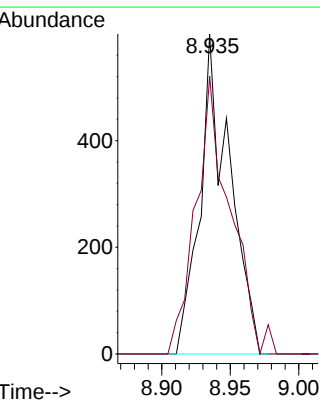
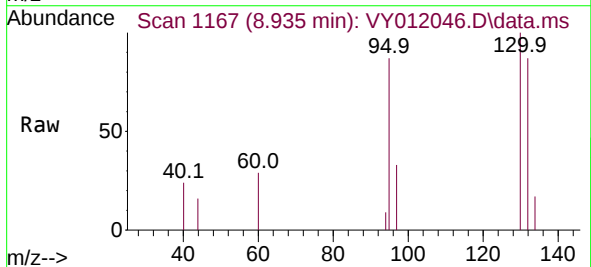
Instrument :
MSVOA_Y
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TP-C2

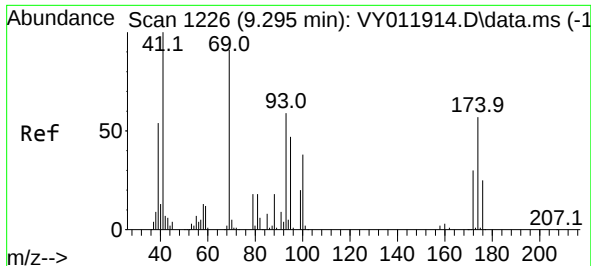
Tgt Ion:113 Resp: 228
Ion Ratio Lower Upper
113 100
111 23.7 83.0 124.4#
192 0.0 16.0 24.0#



#44
Trichloroethene
Concen: 72.063 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. -0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion:130 Resp: 897
Ion Ratio Lower Upper
130 100
95 86.8 0.0 190.6





#48

Methyl methacrylate

Concen: 7.516 ug/l

RT: 9.417 min Scan# 1

Delta R.T. 0.128 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-C2

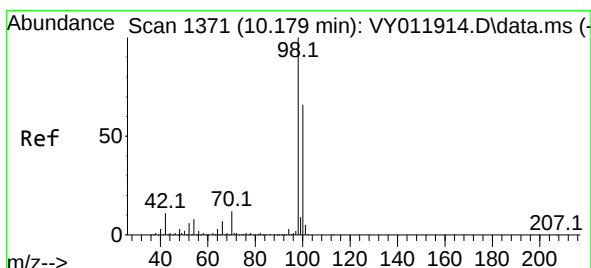
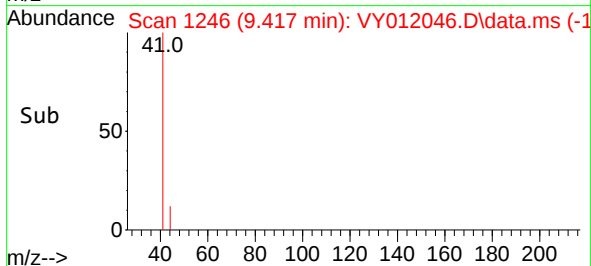
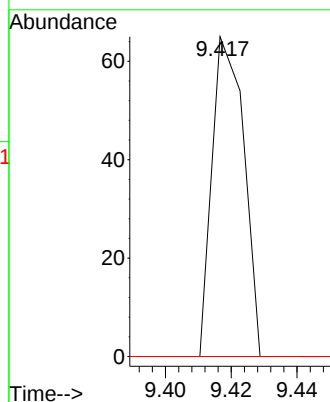
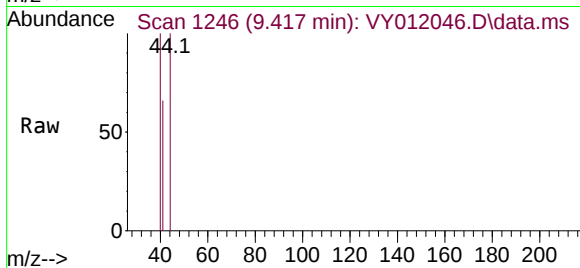
Tgt Ion: 41 Resp: 44

Ion Ratio Lower Upper

41 100

69 0.0 74.2 111.2#

39 0.0 46.3 69.5#



#50

Toluene-d8

Concen: 47.550 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY012046.D

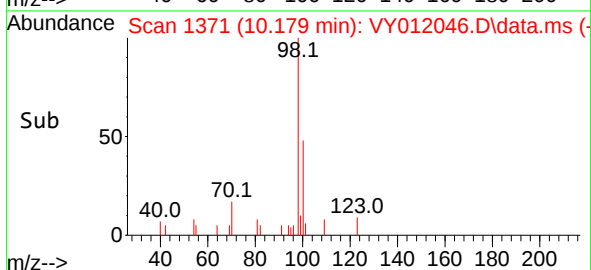
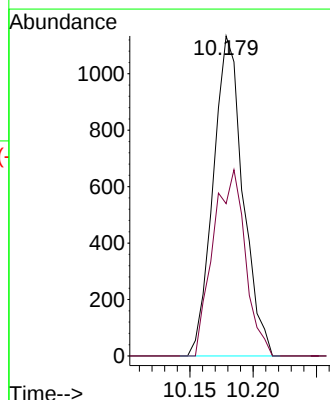
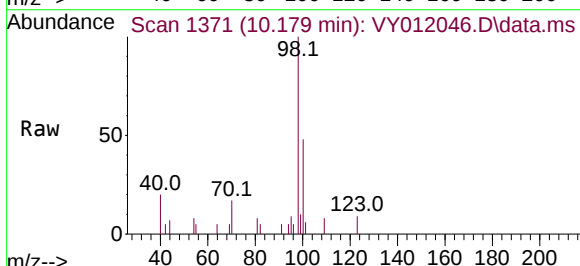
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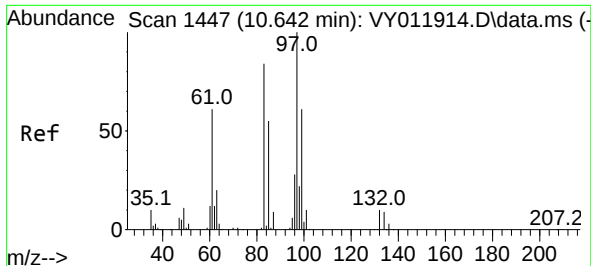
Tgt Ion: 98 Resp: 1856

Ion Ratio Lower Upper

98 100

100 62.7 51.9 77.9

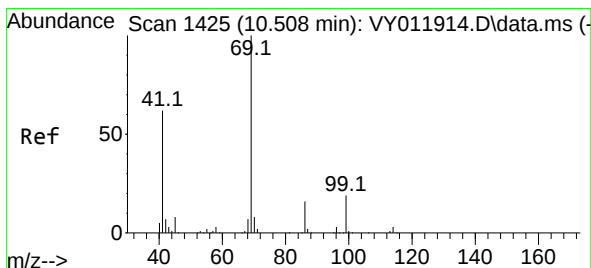
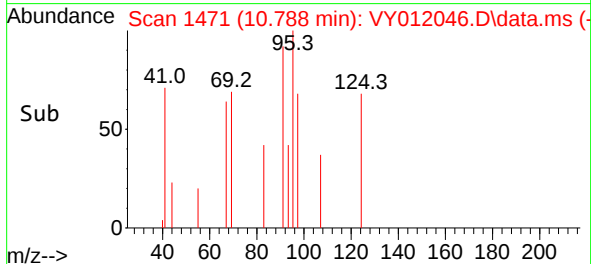
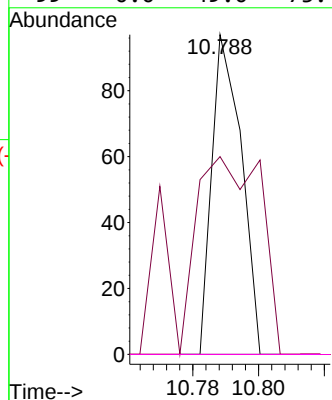
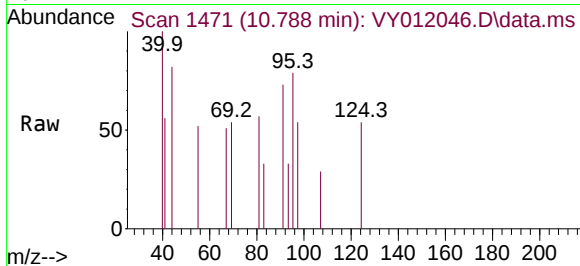




#55
1,1,2-Trichloroethane
Concen: 7.194 ug/l
RT: 10.788 min Scan# 1447
Delta R.T. 0.140 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

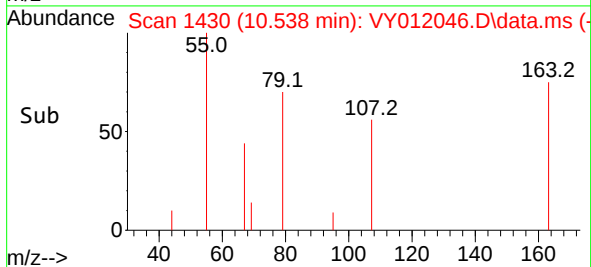
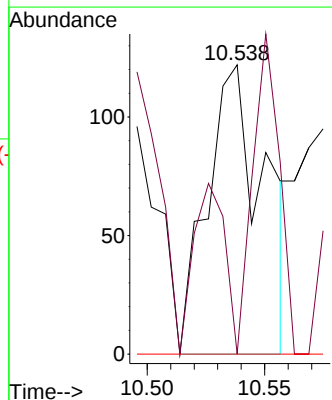
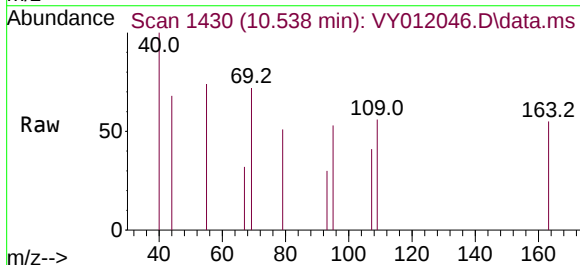
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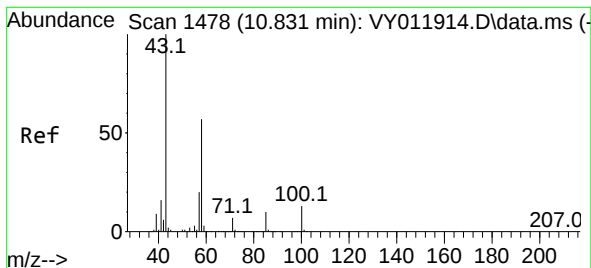
Tgt Ion: 97	Resp: 60
Ion Ratio	Lower Upper
97 100	
83 61.9	67.7 101.5#
85 0.0	43.8 65.8#
99 0.0	49.0 73.4#



#56
Ethyl methacrylate
Concen: 19.413 ug/l
RT: 10.538 min Scan# 1430
Delta R.T. 0.030 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 69	Resp: 205
Ion Ratio	Lower Upper
69 100	
41 32.2	48.9 73.3#
39 0.0	25.9 38.9#

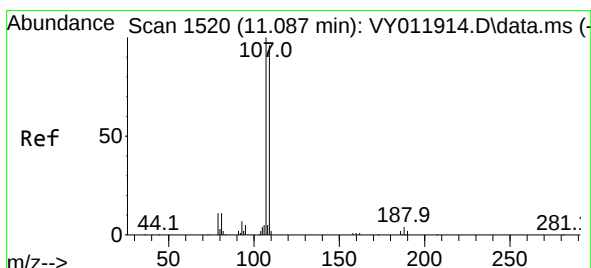
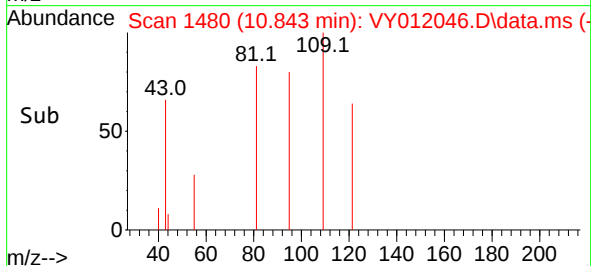
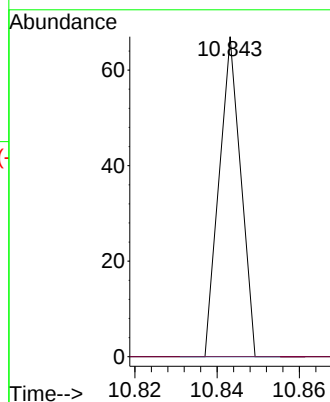
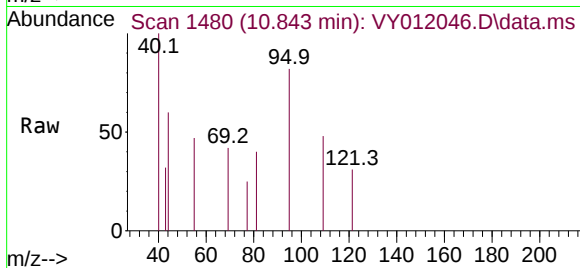




#59
2-Hexanone
Concen: 5.040 ug/l
RT: 10.843 min Scan# 1478
Delta R.T. 0.012 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

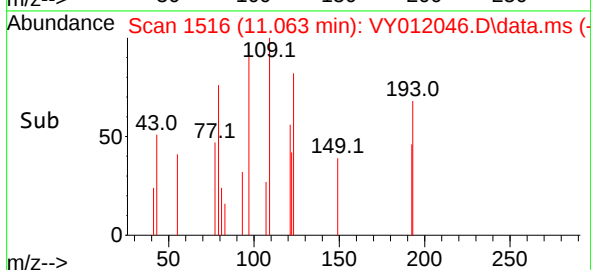
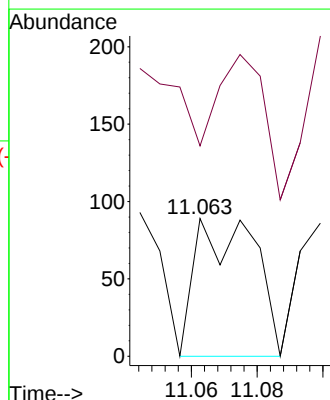
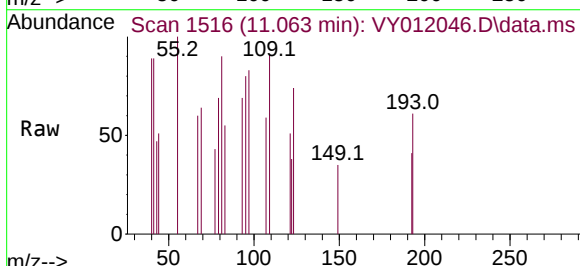
Instrument :
MSVOA_Y
ClientSampleId :
TP-C2

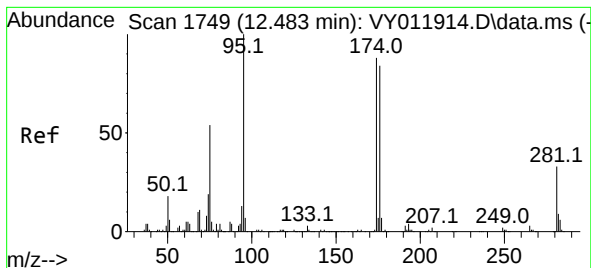
Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.2#



#61
1,2-Dibromoethane
Concen: 14.353 ug/l
RT: 11.063 min Scan# 1516
Delta R.T. -0.025 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 107 Resp: 112
Ion Ratio Lower Upper
107 100
109 81.3 75.8 113.6

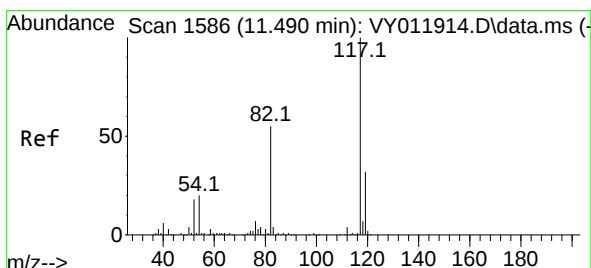
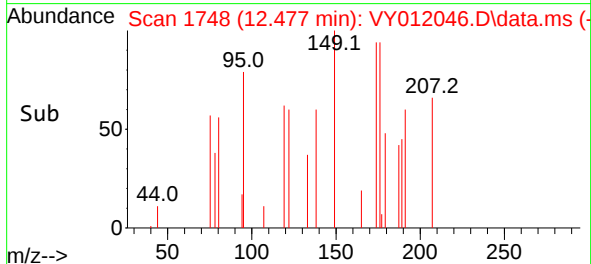
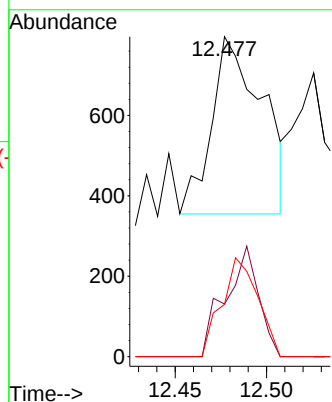
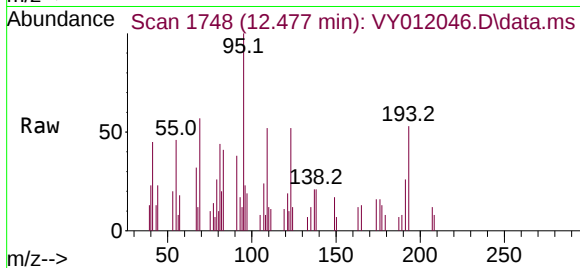




#62
4-Bromofluorobenzene
Concen: 64.674 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

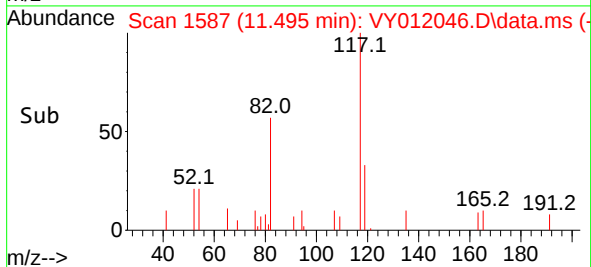
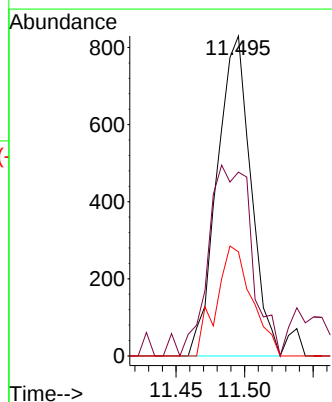
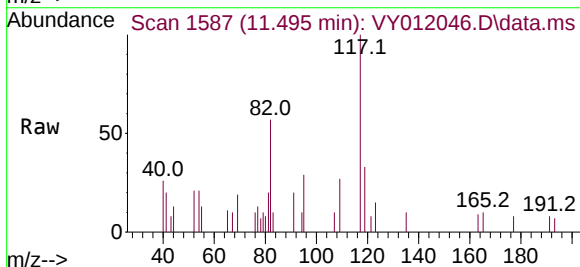
Instrument :
MSVOA_Y
ClientSampleId :
TP-C2

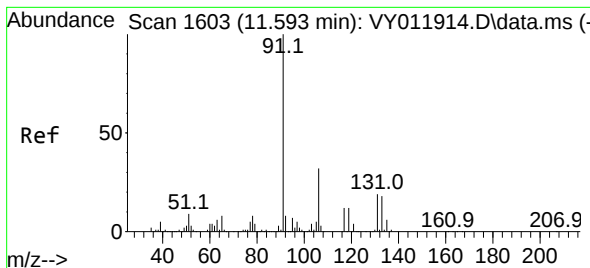
Tgt Ion: 95 Resp: 849
Ion Ratio Lower Upper
95 100
174 40.9 0.0 172.0
176 39.8 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 117 Resp: 1423
Ion Ratio Lower Upper
117 100
82 57.5 44.8 67.2
119 32.5 25.4 38.2





#67

Ethyl Benzene

Concen: 3.576 ug/l

RT: 11.599 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

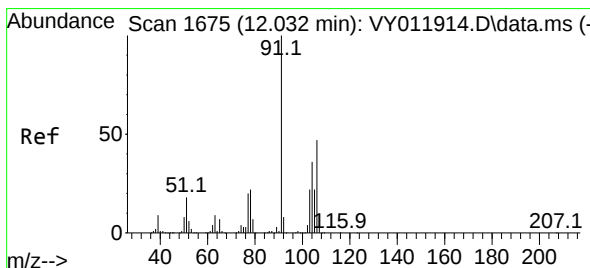
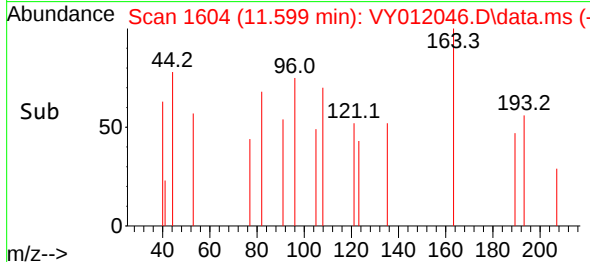
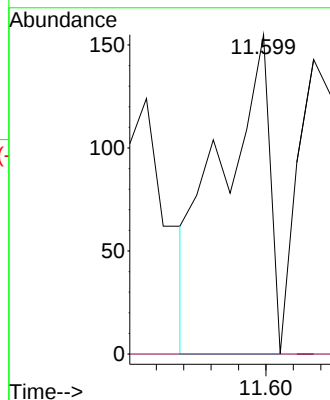
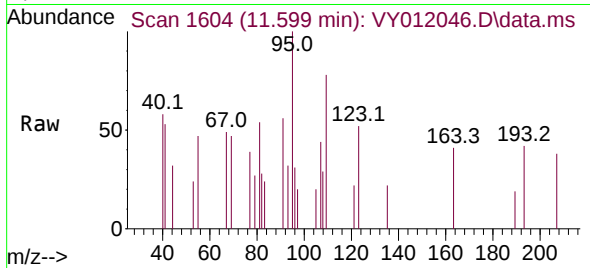
TP-C2

Tgt Ion: 91 Resp: 191

Ion Ratio Lower Upper

91 100

106 0.0 25.0 37.4#



#69

o-Xylene

Concen: 1.966 ug/l

RT: 12.026 min Scan# 1674

Delta R.T. -0.006 min

Lab File: VY012046.D

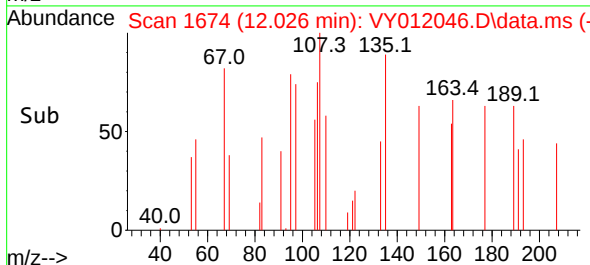
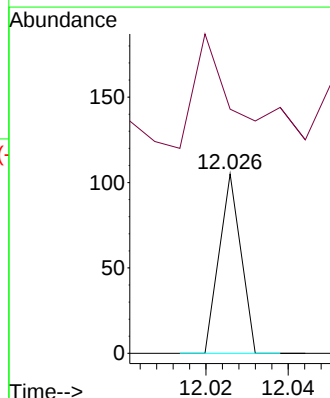
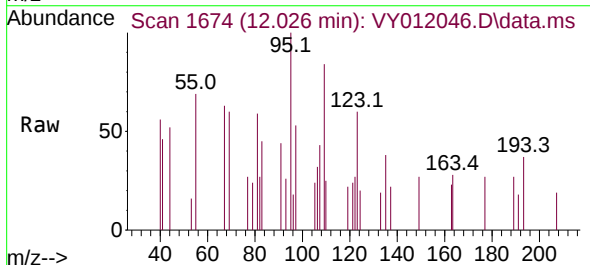
Acq: 03 Jan 2023 14:58

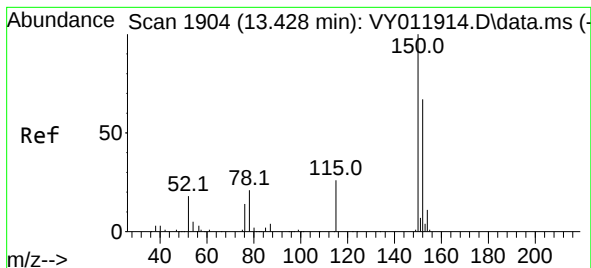
Tgt Ion:106 Resp: 38

Ion Ratio Lower Upper

106 100

91 813.2 107.5 322.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-C2

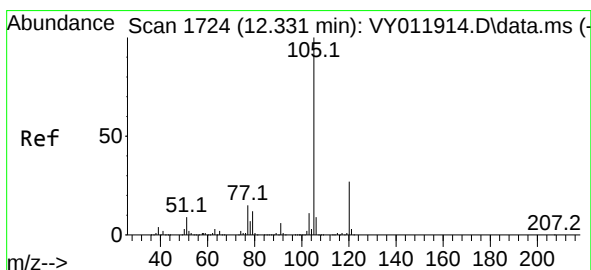
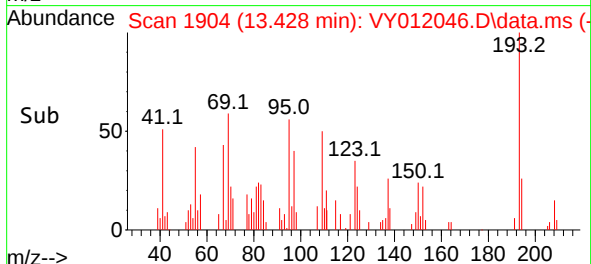
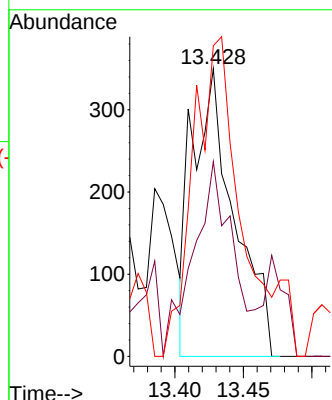
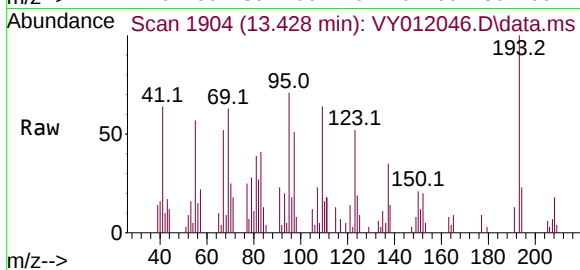
Tgt Ion:152 Resp: 745

Ion Ratio Lower Upper

152 100

115 61.3 29.1 87.3

150 129.8 0.0 342.6



#73

Isopropylbenzene

Concen: 2.171 ug/l

RT: 12.544 min Scan# 1759

Delta R.T. 0.213 min

Lab File: VY012046.D

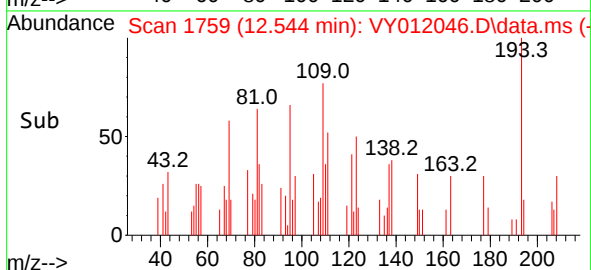
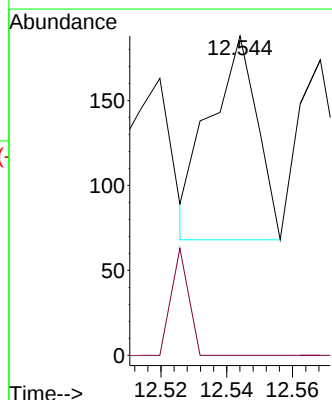
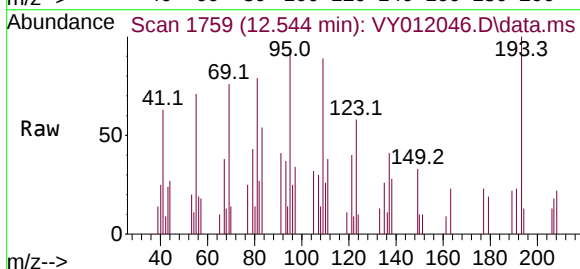
Acq: 03 Jan 2023 14:58

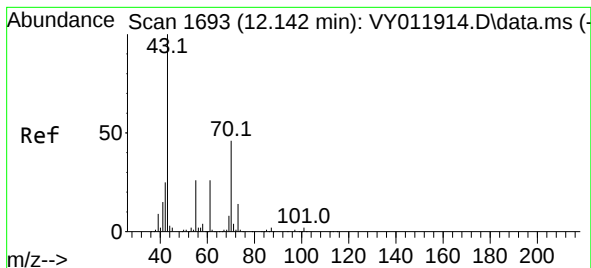
Tgt Ion:105 Resp: 120

Ion Ratio Lower Upper

105 100

120 19.2 13.2 39.6





#74

N-amy1 acetate

Concen: 38.645 ug/l

RT: 12.117 min Scan# 1

Delta R.T. -0.025 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-C2

Tgt Ion: 43 Resp: 438

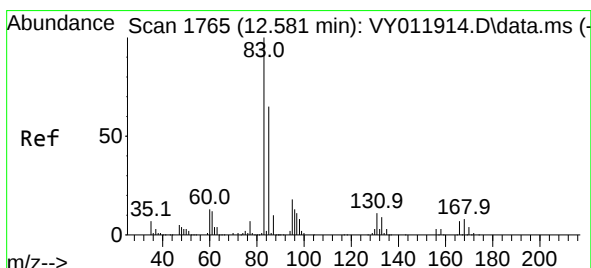
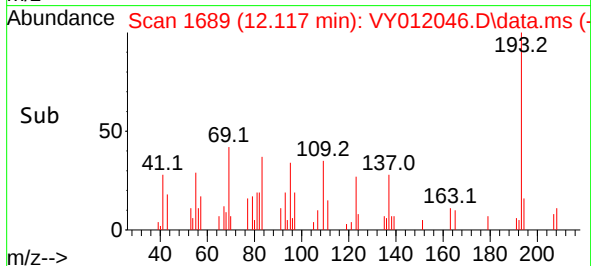
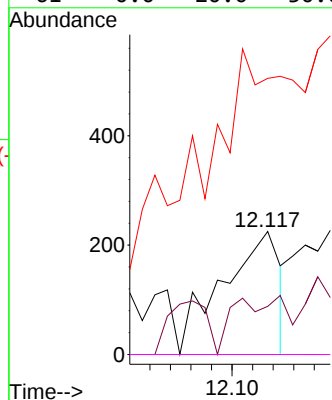
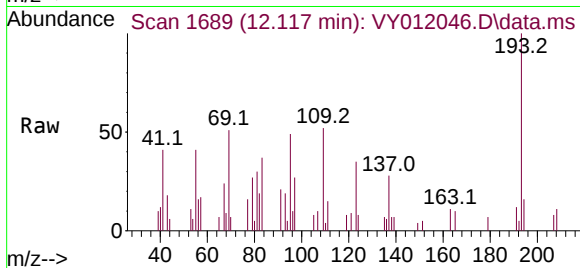
Ion Ratio Lower Upper

43 100

70 43.2 35.8 53.8

55 337.2 21.0 31.4#

61 0.0 20.0 30.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 10.626 ug/l

RT: 12.550 min Scan# 1760

Delta R.T. -0.031 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

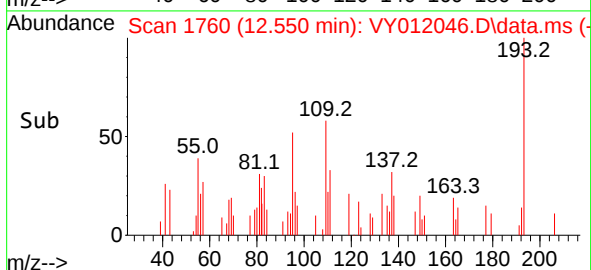
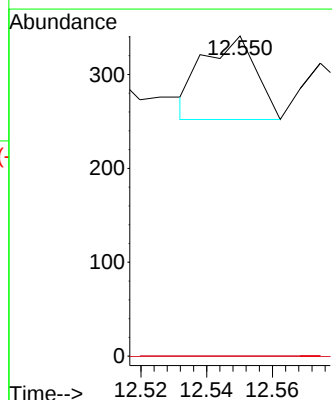
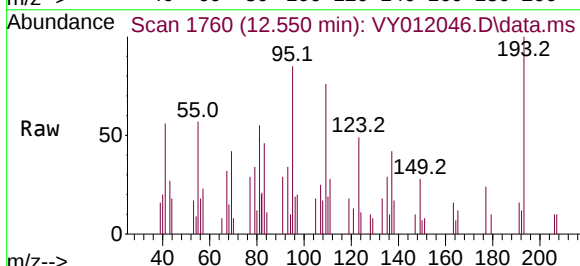
Tgt Ion: 83 Resp: 98

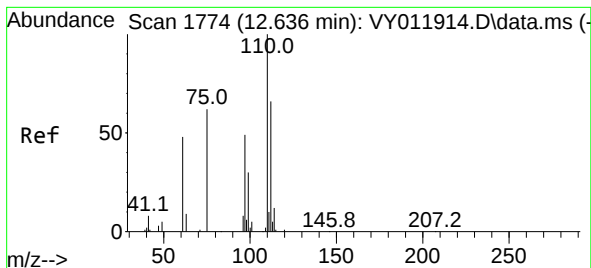
Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

85 0.0 32.3 96.8#

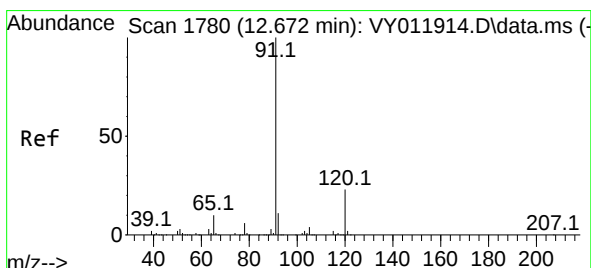
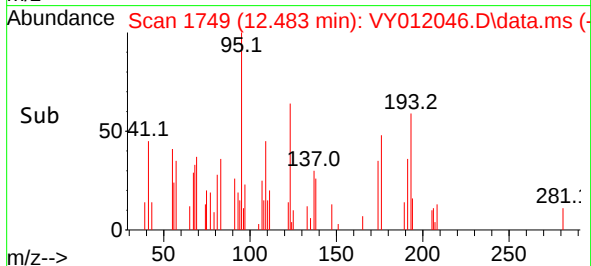
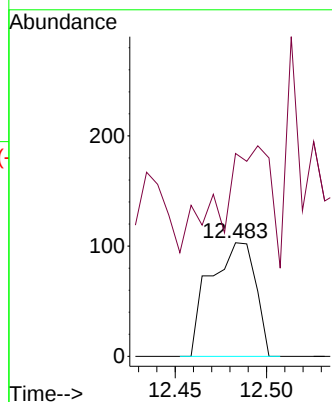
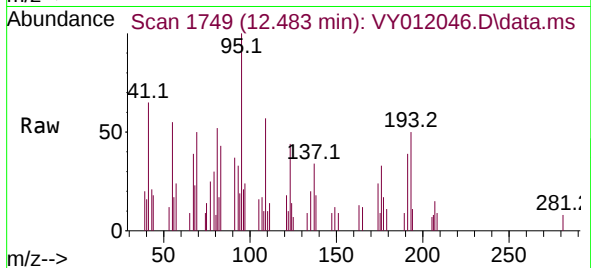




#76
1,2,3-Trichloropropane
Concen: 19.309 ug/l
RT: 12.483 min Scan# 1774
Delta R.T. -0.153 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

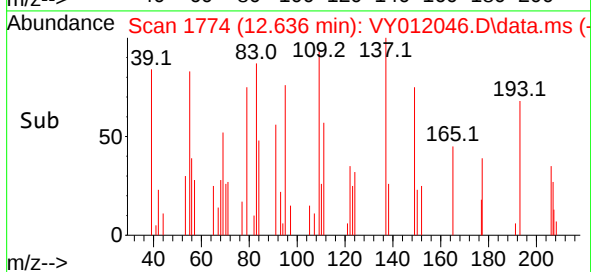
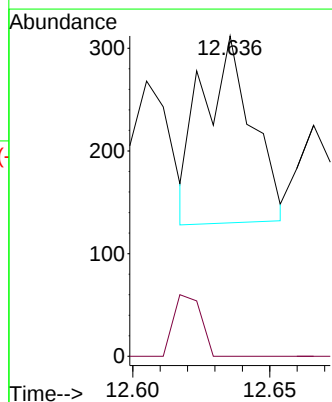
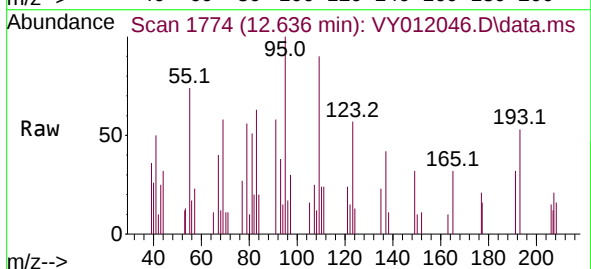
Instrument :
MSVOA_Y
ClientSampleId :
TP-C2

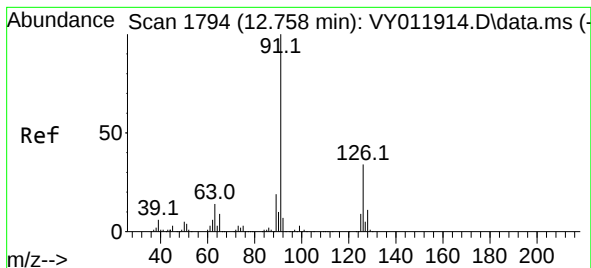
Tgt Ion: 75 Resp: 179
Ion Ratio Lower Upper
75 100
77 124.0 0.0 0.0#



#78
n-propylbenzene
Concen: 3.446 ug/l
RT: 12.636 min Scan# 1774
Delta R.T. -0.037 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 91 Resp: 229
Ion Ratio Lower Upper
91 100
120 18.3 11.8 35.4





#79

2-Chlorotoluene

Concen: 4.283 ug/l

RT: 12.782 min Scan# 11

Delta R.T. 0.024 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

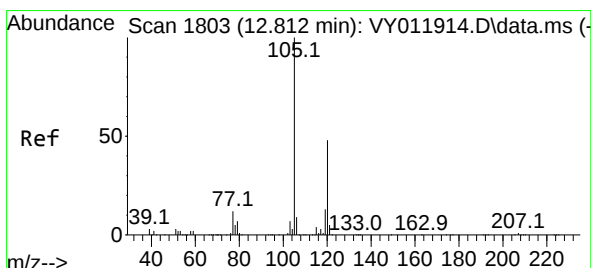
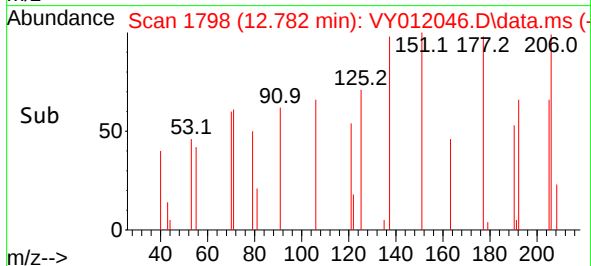
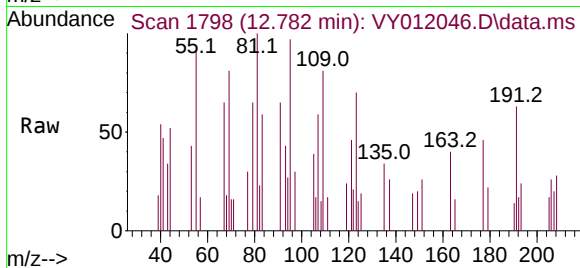
TP-C2

Tgt Ion: 91 Resp: 160

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.5#



#80

1,3,5-Trimethylbenzene

Concen: 1.162 ug/l

RT: 12.928 min Scan# 1822

Delta R.T. 0.116 min

Lab File: VY012046.D

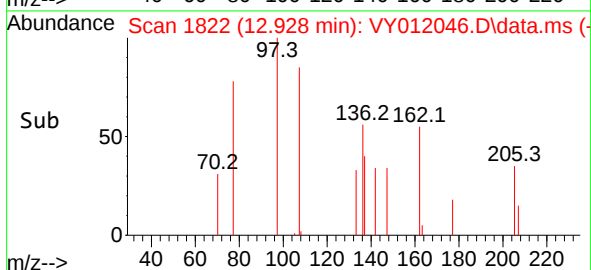
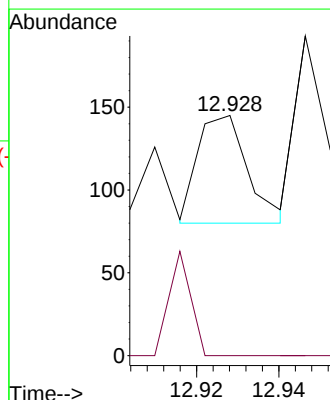
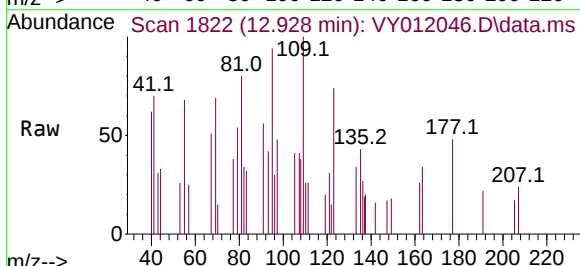
Acq: 03 Jan 2023 14:58

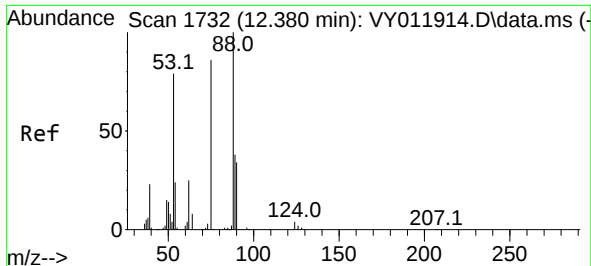
Tgt Ion: 105 Resp: 55

Ion Ratio Lower Upper

105 100

120 41.8 24.2 72.6

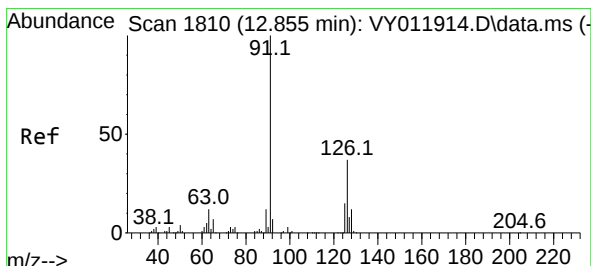
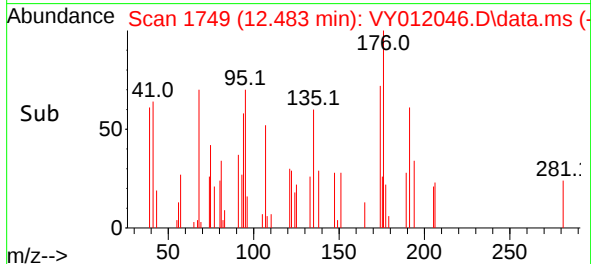
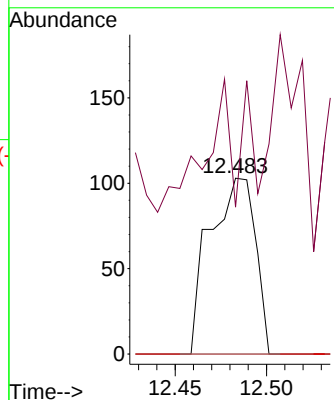
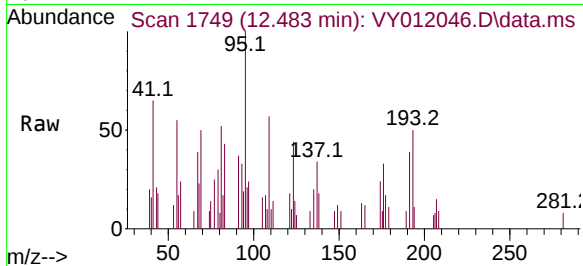




#81
trans-1,4-Dichloro-2-butene
Concen: 52.878 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

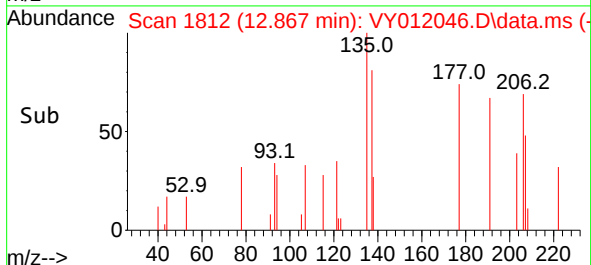
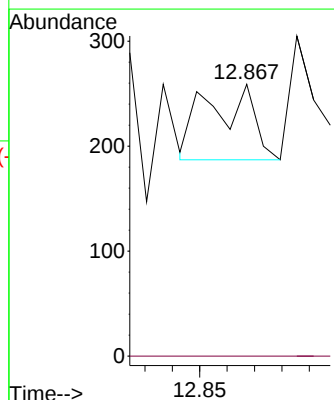
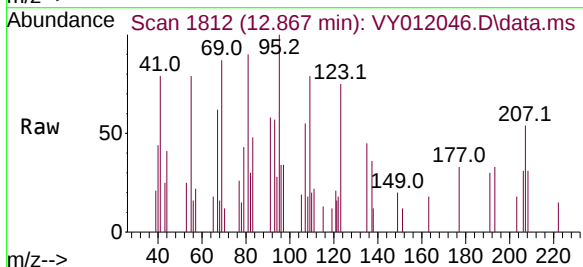
Instrument :
MSVOA_Y
ClientSampleId :
TP-C2

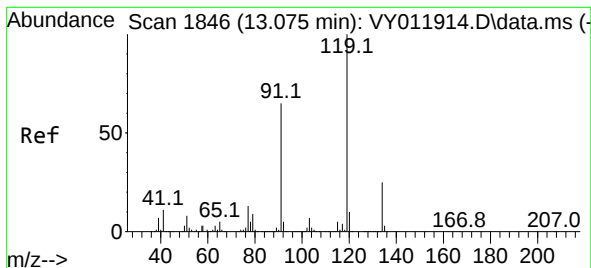
Tgt Ion: 75 Resp: 179
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#



#82
4-Chlorotoluene
Concen: 2.173 ug/l
RT: 12.867 min Scan# 1812
Delta R.T. 0.012 min
Lab File: VY012046.D
Acq: 03 Jan 2023 14:58

Tgt Ion: 91 Resp: 84
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#





#83

tert-Butylbenzene

Concen: 6.207 ug/l

RT: 13.093 min Scan# 1849

Delta R.T. 0.018 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-C2

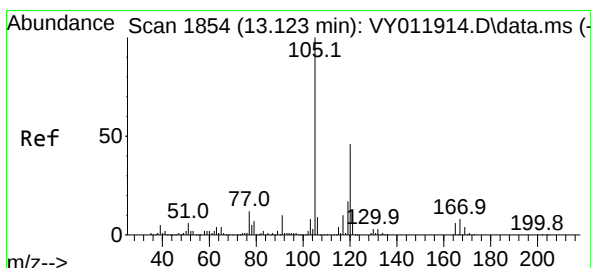
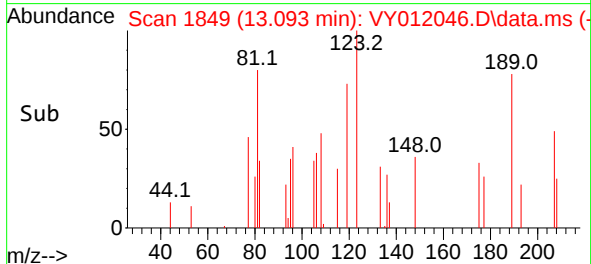
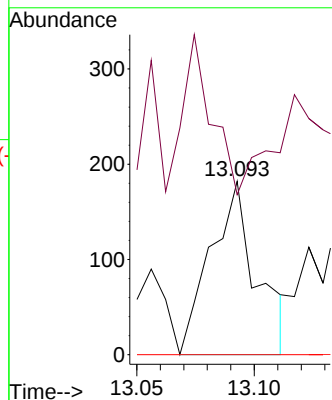
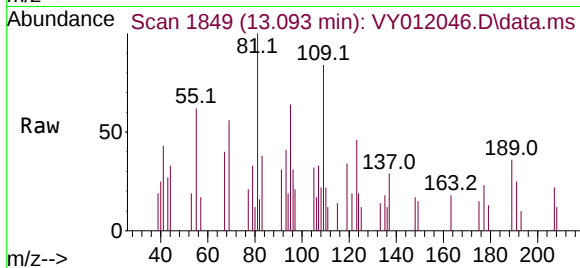
Tgt Ion:119 Resp: 249

Ion Ratio Lower Upper

119 100

91 56.2 32.3 96.8

134 0.0 13.0 39.0#



#84

1,2,4-Trimethylbenzene

Concen: 2.040 ug/l

RT: 13.044 min Scan# 1841

Delta R.T. -0.073 min

Lab File: VY012046.D

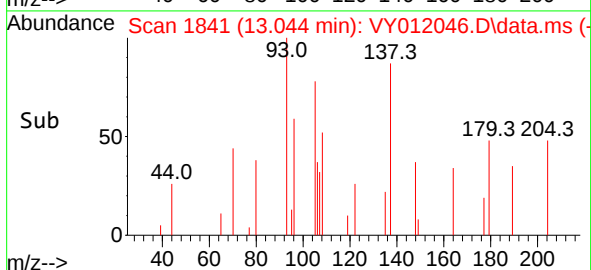
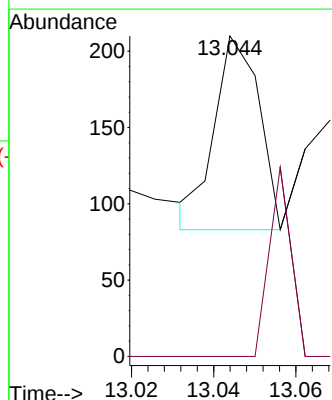
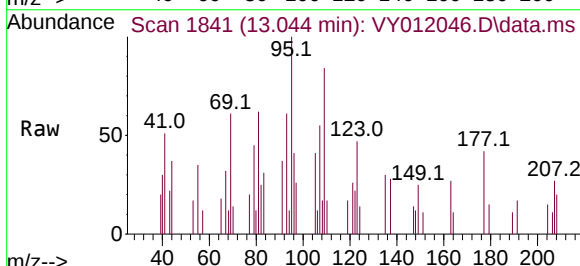
Acq: 03 Jan 2023 14:58

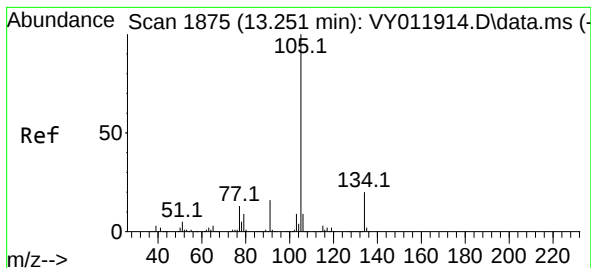
Tgt Ion:105 Resp: 95

Ion Ratio Lower Upper

105 100

120 47.4 22.9 68.7





#85

sec-Butylbenzene

Concen: 1.786 ug/l

RT: 13.263 min Scan# 1875

Delta R.T. 0.012 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

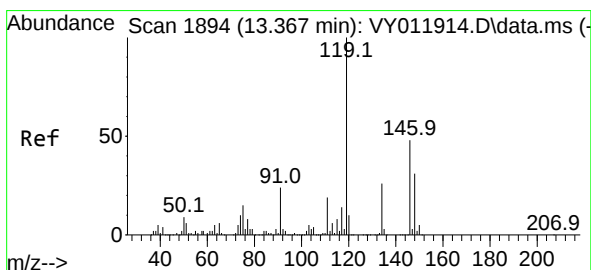
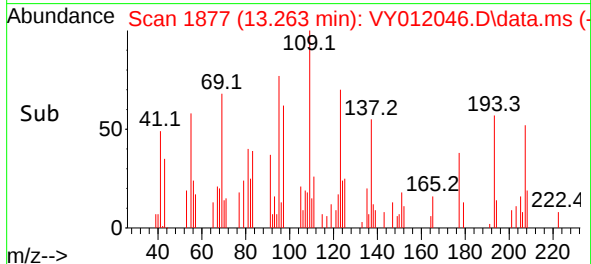
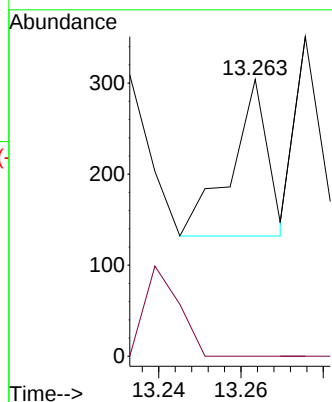
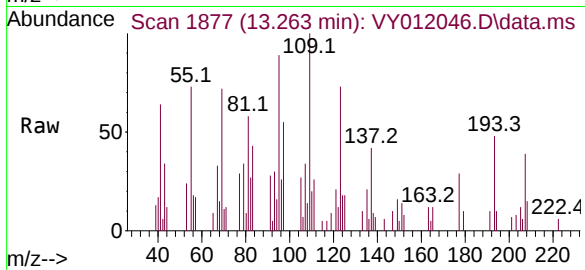
TP-C2

Tgt Ion:105 Resp: 107

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.3#



#86

p-Isopropyltoluene

Concen: 4.748 ug/l

RT: 13.385 min Scan# 1897

Delta R.T. 0.018 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

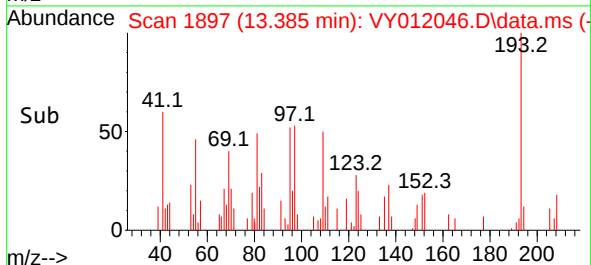
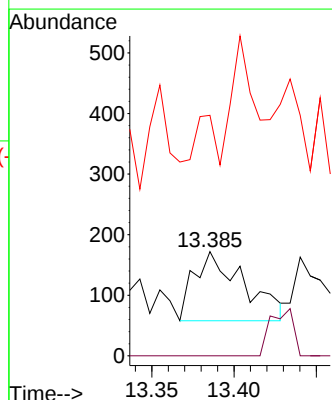
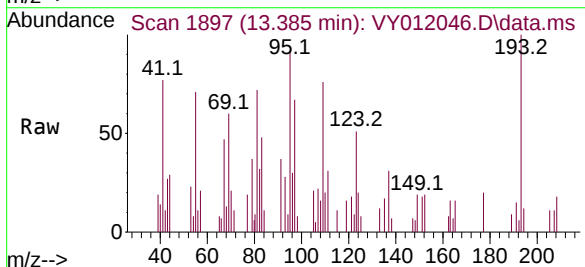
Tgt Ion:119 Resp: 240

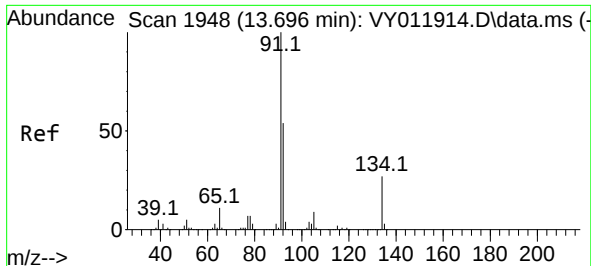
Ion Ratio Lower Upper

119 100

134 0.0 13.0 39.0#

91 97.1 11.9 35.9#





#89

n-Butylbenzene

Concen: 4.415 ug/l

RT: 13.891 min Scan# 1948

Delta R.T. 0.195 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-C2

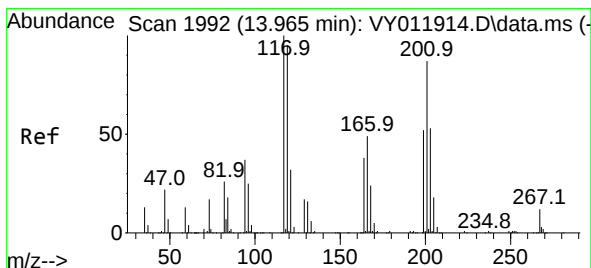
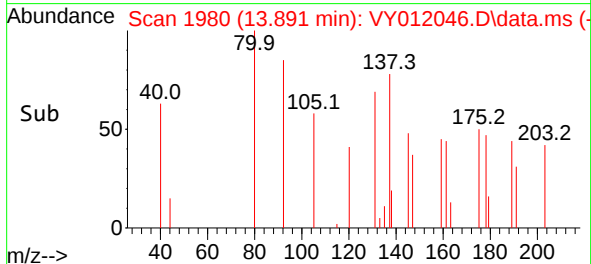
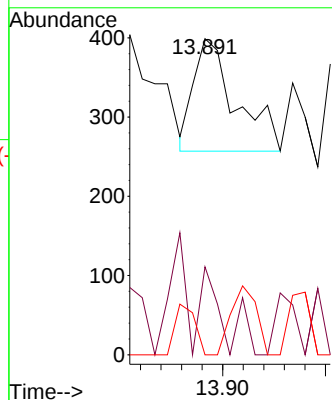
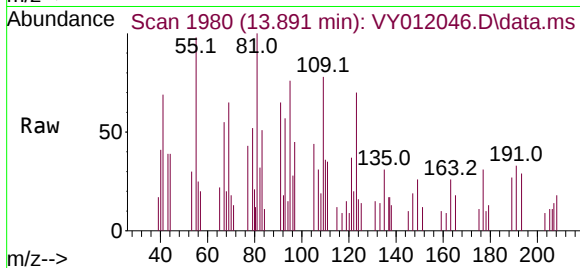
Tgt Ion: 91 Resp: 202

Ion Ratio Lower Upper

91 100

92 40.6 26.8 80.4

134 21.3 13.3 39.8



#90

Hexachloroethane

Concen: 13.895 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY012046.D

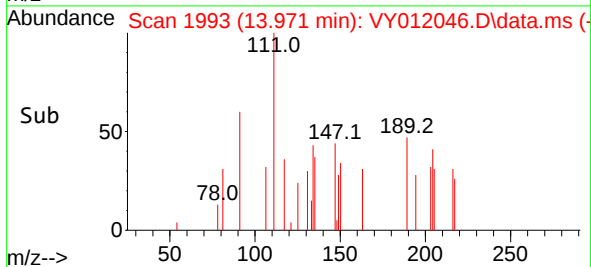
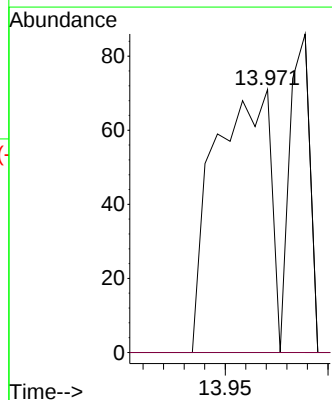
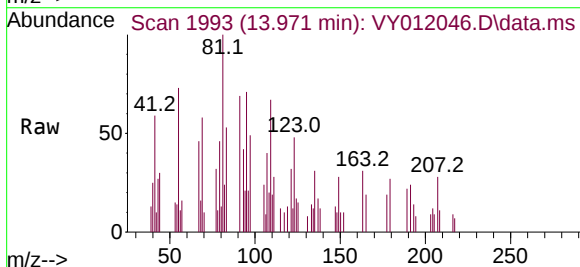
Acq: 03 Jan 2023 14:58

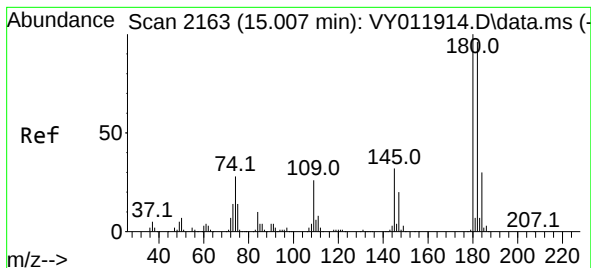
Tgt Ion: 117 Resp: 134

Ion Ratio Lower Upper

117 100

201 0.0 40.3 120.8#





#93

1,2,4-Trichlorobenzene

Concen: 1.592 ug/l

RT: 14.958 min Scan# 21

Delta R.T. -0.049 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-C2

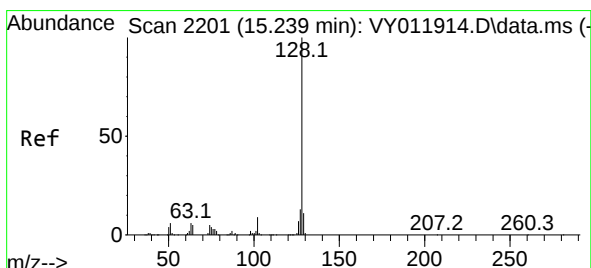
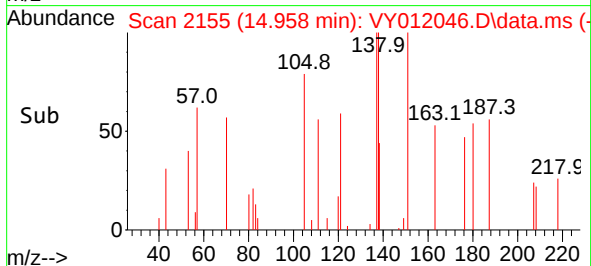
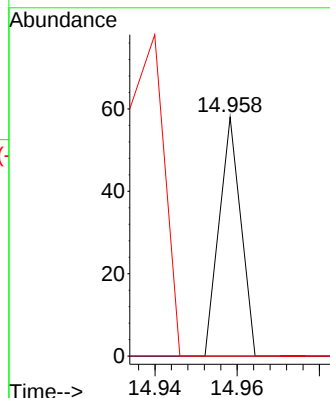
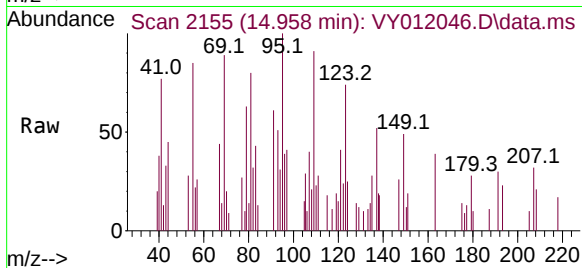
Tgt Ion:180 Resp: 21

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

145 333.3 15.4 46.4#



#95

Naphthalene

Concen: 8.492 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. -0.000 min

Lab File: VY012046.D

Acq: 03 Jan 2023 14:58

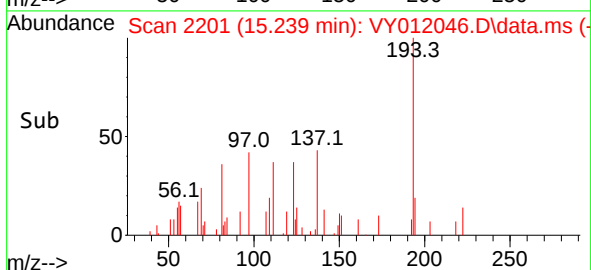
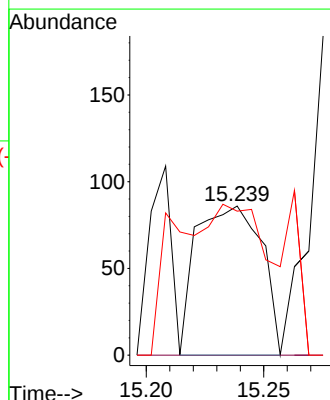
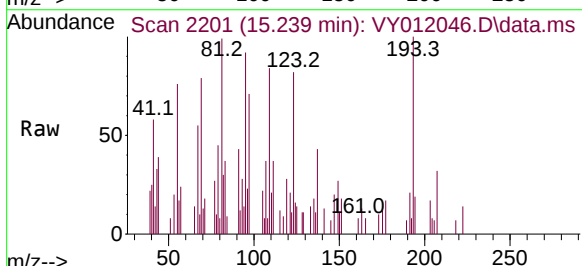
Tgt Ion:128 Resp: 166

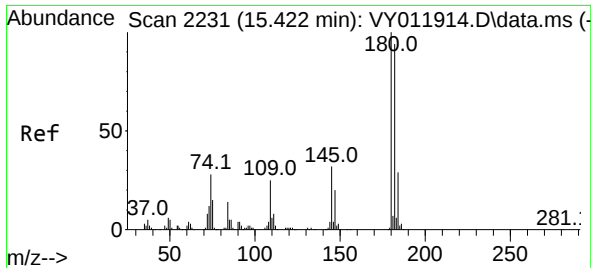
Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.704 ug/l
 RT: 15.470 min Scan# 21
 Delta R.T. 0.049 min
 Lab File: VY012046.D
 Acq: 03 Jan 2023 14:58

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-C2

Tgt Ion:180 Resp: 19
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.7#
 145 163.2 16.1 48.2#

