

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092424\
 Data File : VY019686.D
 Acq On : 24 Sep 2024 16:42
 Operator : SY/MD
 Sample : P4168-01
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 25 01:27:34 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)

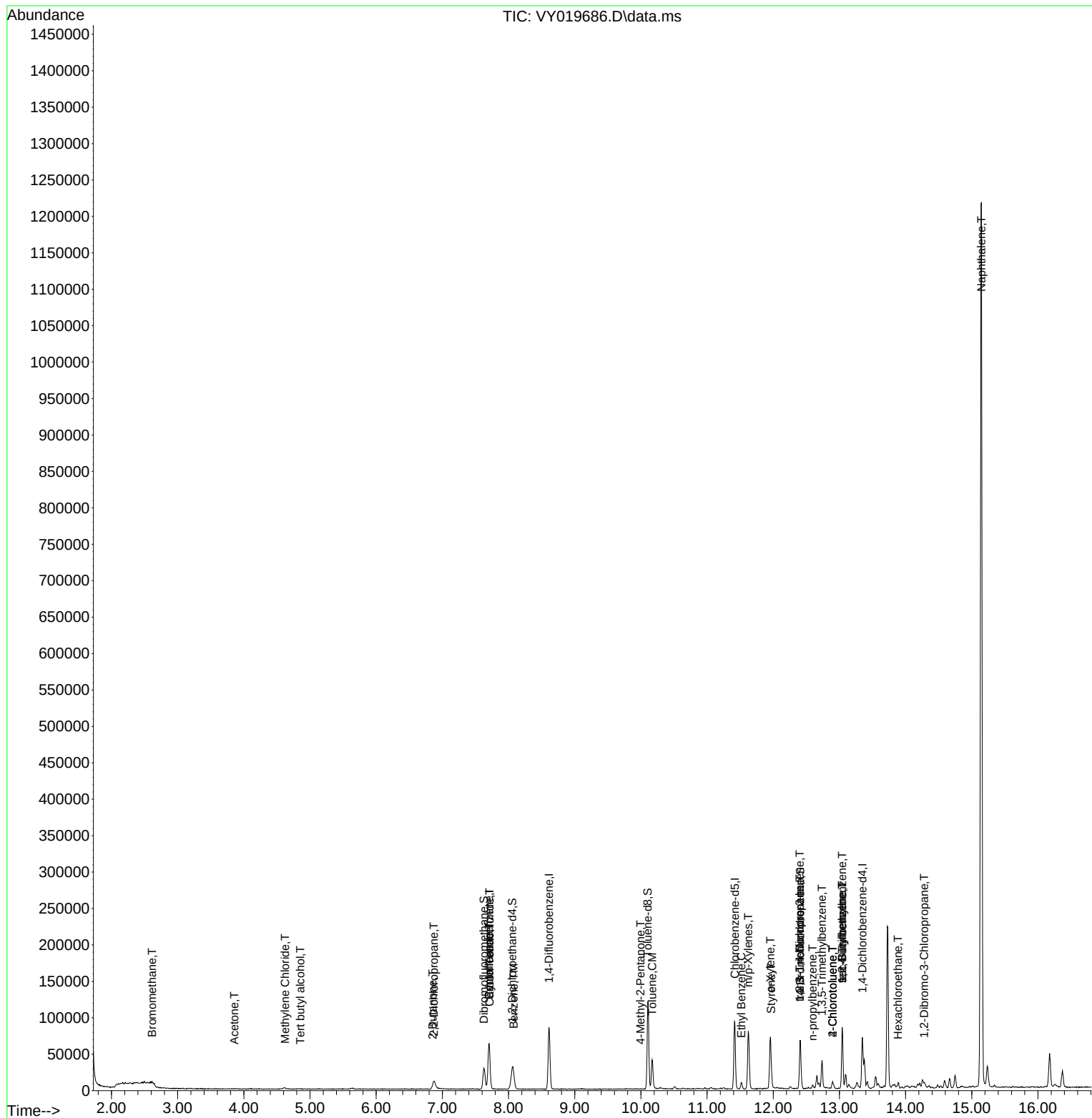
Internal Standards						
1) Pentafluorobenzene	7.707	168	46125	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	72788	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	49605	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	16145	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	17872	41.844	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	83.680%
35) Dibromofluoromethane	7.628	113	20655	50.049	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.100%
50) Toluene-d8	10.103	98	77935	51.056	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.120%
62) 4-Bromofluorobenzene	12.408	95	19076	32.501	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	65.000%
Target Compounds						
						Qvalue
5) Bromomethane	2.610	94	579	2.284	ug/l	# 51
11) Tert butyl alcohol	4.854	59	183	5.306	ug/l	# 80
13) Acrolein	3.647	56	50	Below Cal	#	60
16) Acetone	3.854	43	1100	10.811	ug/l	# 36
20) Methylene Chloride	4.622	84	1027	2.213	ug/l	# 75
25) 2-Butanone	6.854	43	385	2.660	ug/l	# 41
26) 2,2-Dichloropropane	6.872	77	779	1.021	ug/l	# 51
31) Cyclohexane	7.707	56	1184	1.549	ug/l	# 60
38) Carbon Tetrachloride	7.713	117	4780	7.548	ug/l	# 14
40) Benzene	8.079	78	12950	7.487	ug/l	96
51) 4-Methyl-2-Pentanone	9.993	43	383	1.259	ug/l	# 31
52) Toluene	10.170	92	16282	14.637	ug/l	100
67) Ethyl Benzene	11.517	91	6283	3.624	ug/l	89
68) m/p-Xylenes	11.621	106	24390	37.204	ug/l	98
69) o-Xylene	11.956	106	16260	25.361	ug/l	87
70) Styrene	11.969	104	9170	8.471	ug/l	# 71
76) 1,2,3-Trichloropropane	12.401	75	10409	68.785	ug/l	# 100
78) n-propylbenzene	12.597	91	2273	1.637	ug/l	96
79) 2-Chlorotoluene	12.895	91	884	1.093	ug/l	85
80) 1,3,5-Trimethylbenzene	12.737	105	18151	19.062	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.401	75	10409	132.048	ug/l	# 16
82) 4-Chlorotoluene	12.895	91	884	1.063	ug/l	86
83) tert-Butylbenzene	13.042	119	5082	5.895	ug/l	# 47
84) 1,2,4-Trimethylbenzene	13.042	105	44165	46.857	ug/l	99
85) sec-Butylbenzene	13.042	105	44165	35.268	ug/l	# 56
90) Hexachloroethane	13.883	117	1020	4.785	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.279	75	184	5.311	ug/l	# 1
95) Naphthalene	15.145	128	999444	1821.725	ug/l	99

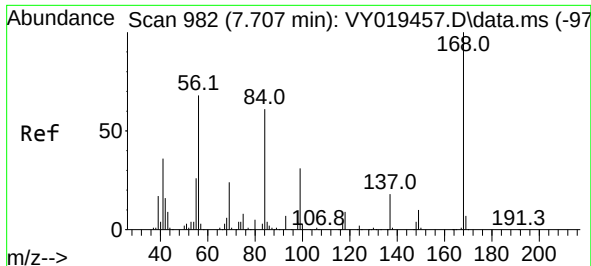
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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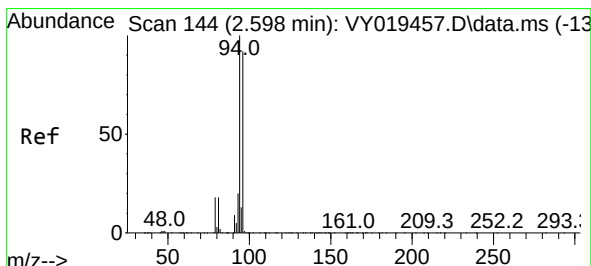
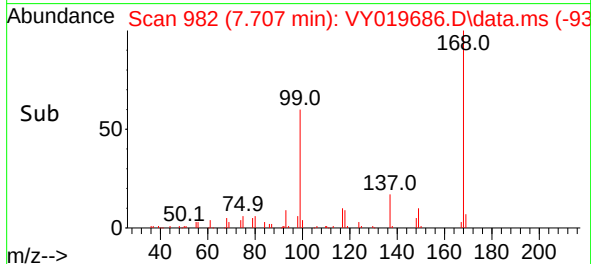
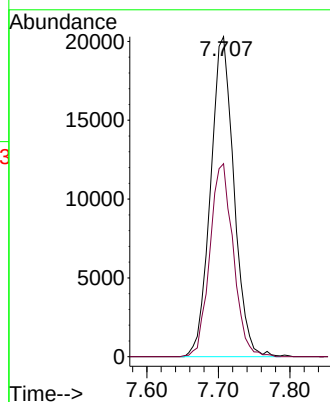
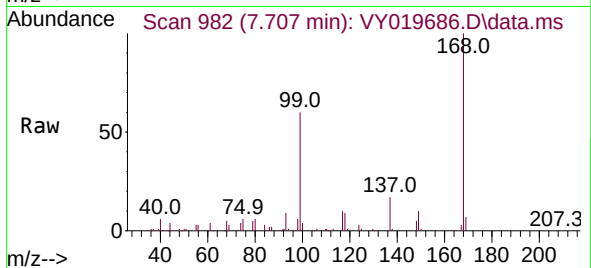




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

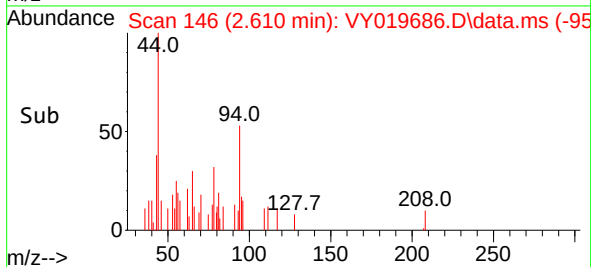
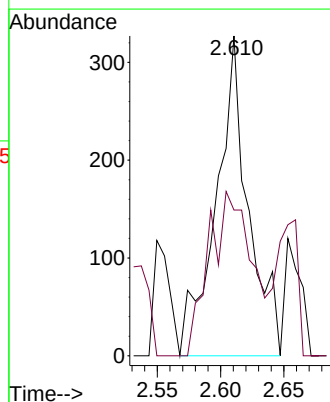
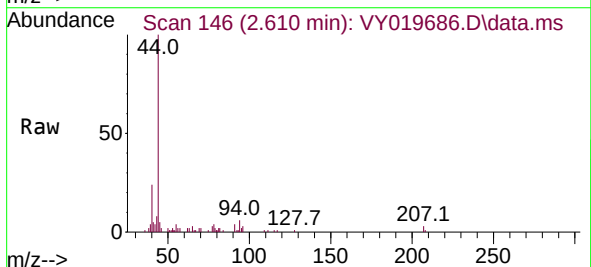
Instrument :
MSVOA_Y
ClientSampleId :

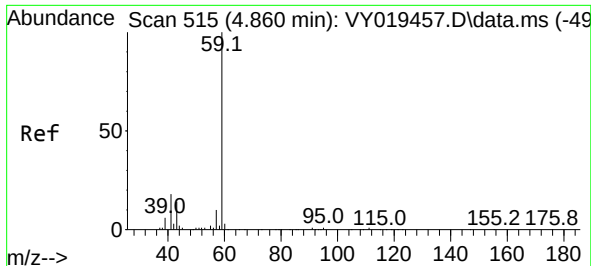
Tgt Ion:168 Resp: 46125
Ion Ratio Lower Upper
168 100
99 60.3 39.1 58.7#



#5
Bromomethane
Concen: 2.284 ug/l
RT: 2.610 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 94 Resp: 579
Ion Ratio Lower Upper
94 100
96 45.6 74.1 111.1#





#11

Tert butyl alcohol

Concen: 5.306 ug/l

RT: 4.854 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

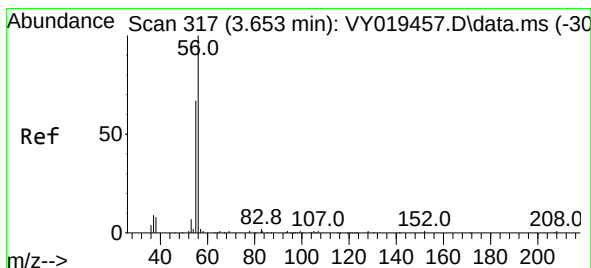
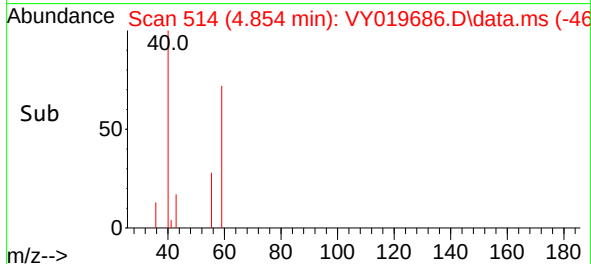
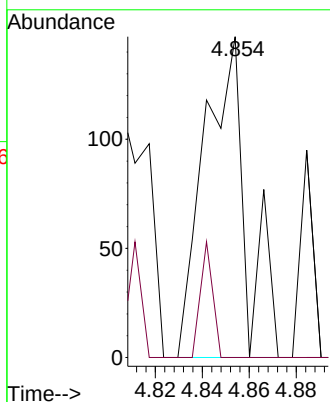
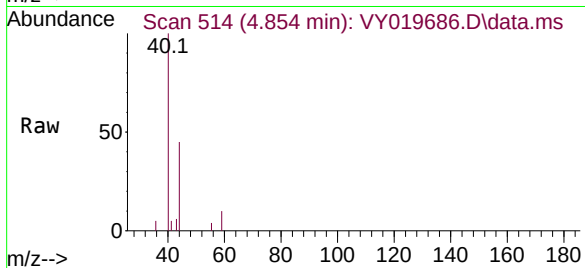
ClientSampleId :

Tgt Ion: 59 Resp: 183

Ion Ratio Lower Upper

59 100

57 10.4 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.647 min Scan# 316

Delta R.T. -0.006 min

Lab File: VY019686.D

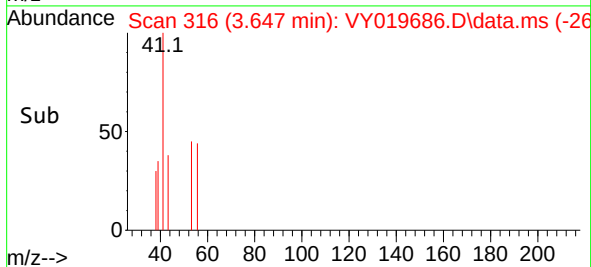
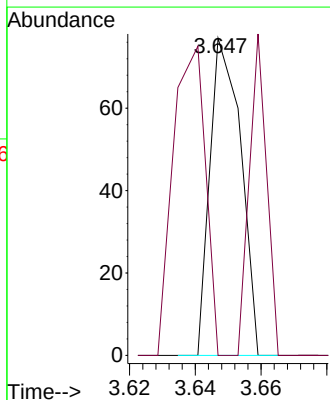
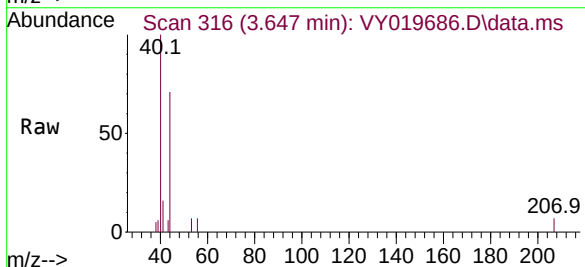
Acq: 24 Sep 2024 16:42

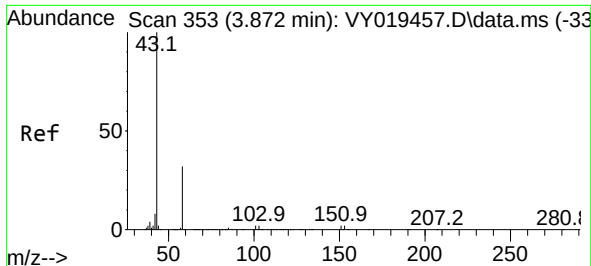
Tgt Ion: 56 Resp: 50

Ion Ratio Lower Upper

56 100

55 102.0 55.7 83.5#

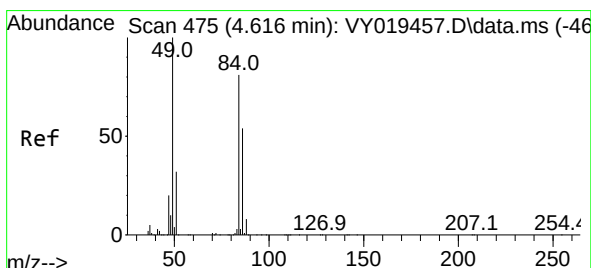
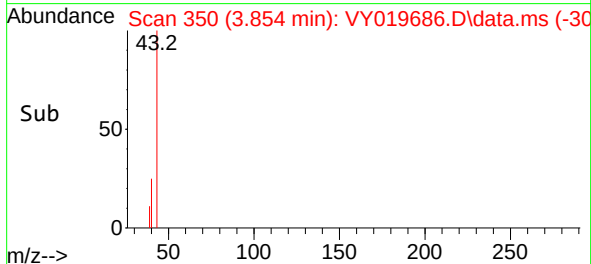
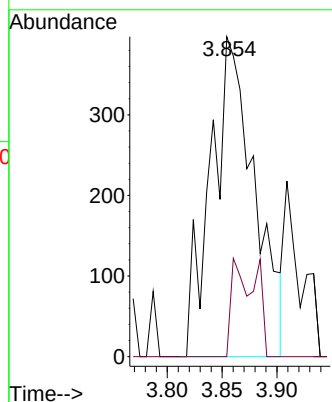
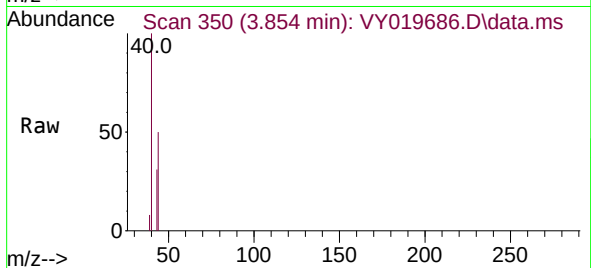




#16
Acetone
Concen: 10.811 ug/l
RT: 3.854 min Scan# 311
Delta R.T. -0.018 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

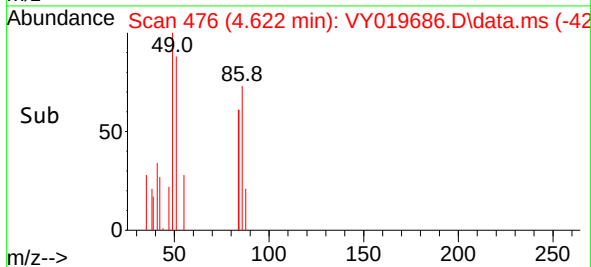
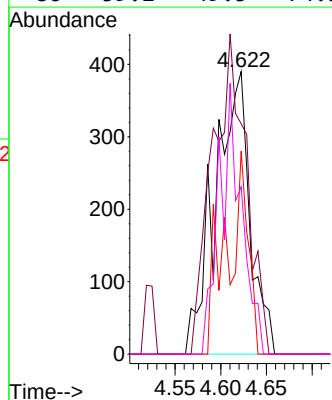
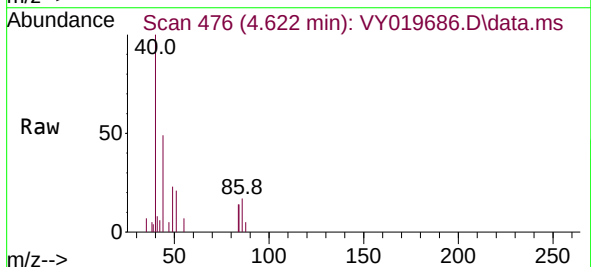
Instrument :
MSVOA_Y
ClientSampleId :

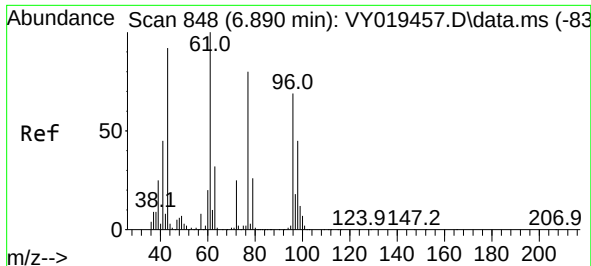
Tgt Ion: 43 Resp: 1100
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#20
Methylene Chloride
Concen: 2.213 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 84 Resp: 1027
Ion Ratio Lower Upper
84 100
49 81.5 84.4 126.6#
51 71.8 26.0 39.0#
86 59.2 49.5 74.3





#25

2-Butanone

Concen: 2.660 ug/l

RT: 6.854 min Scan# 84

Delta R.T. -0.036 min

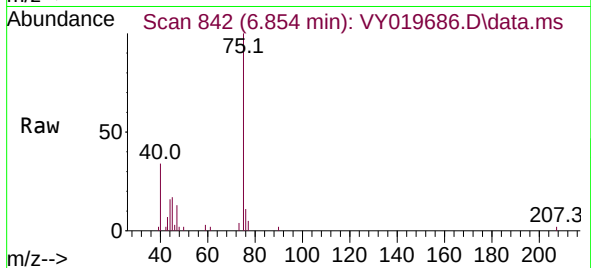
Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

ClientSampleId :

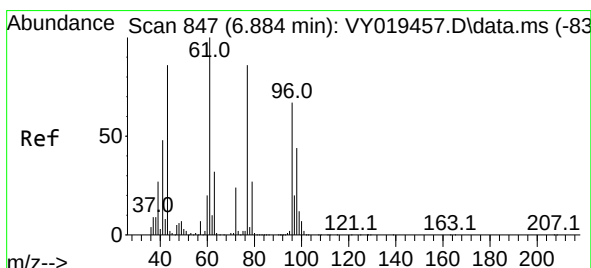
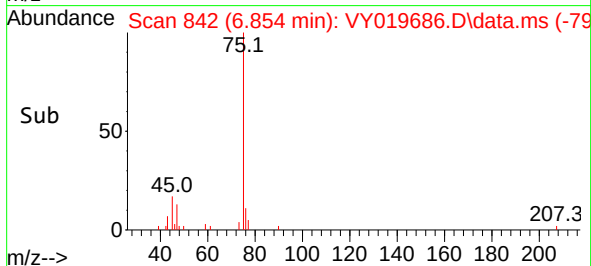
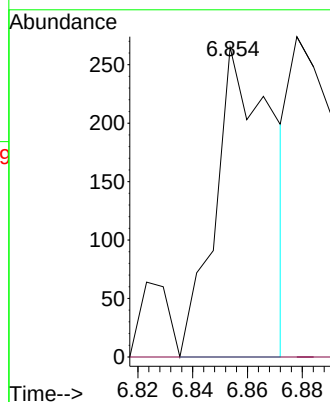


Tgt Ion: 43 Resp: 385

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#26

2,2-Dichloropropane

Concen: 1.021 ug/l

RT: 6.872 min Scan# 845

Delta R.T. -0.012 min

Lab File: VY019686.D

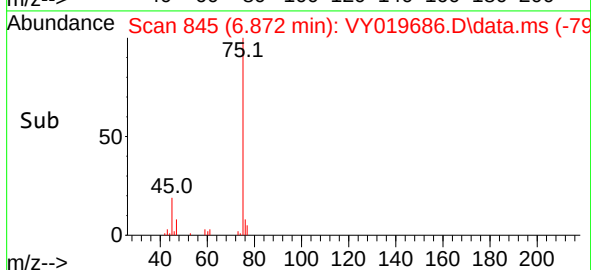
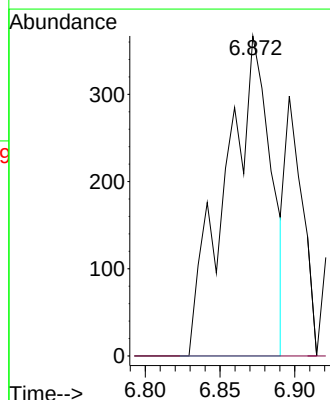
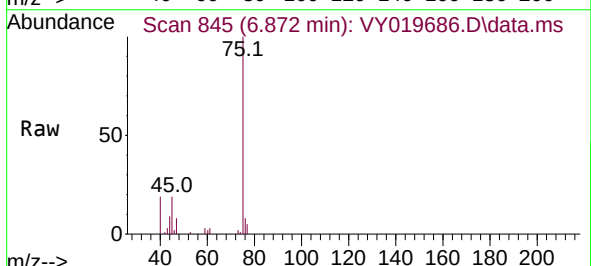
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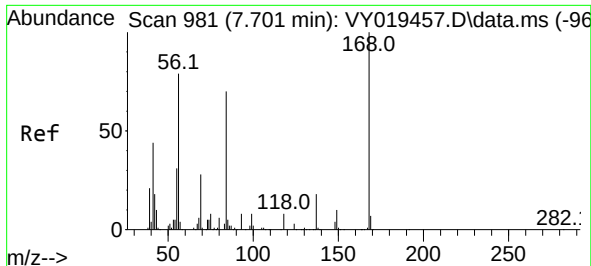
Tgt Ion: 77 Resp: 779

Ion Ratio Lower Upper

77 100

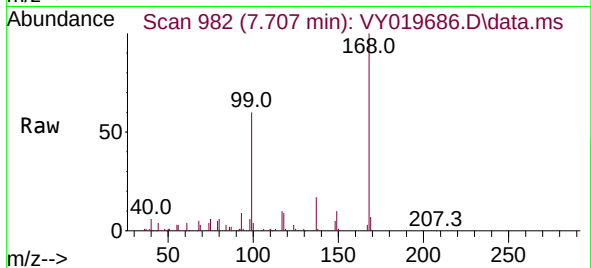
97 0.0 12.0 36.1#



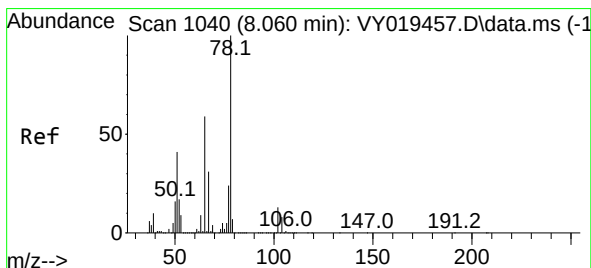
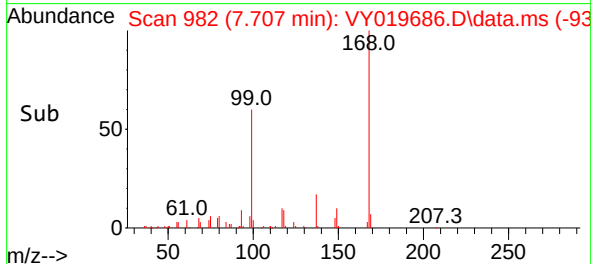
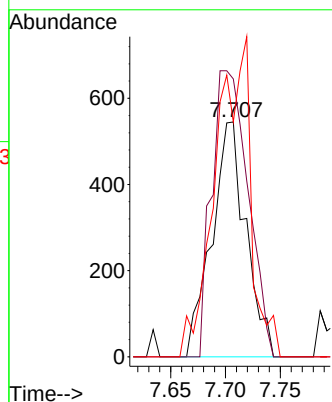


#31
Cyclohexane
Concen: 1.549 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Instrument :
MSVOA_Y
ClientSampleId :

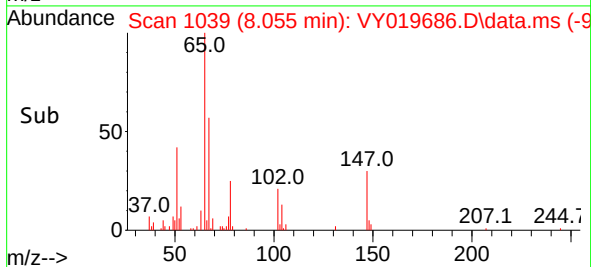
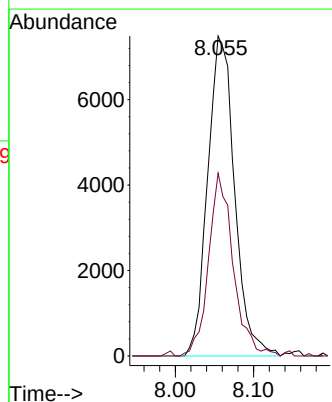
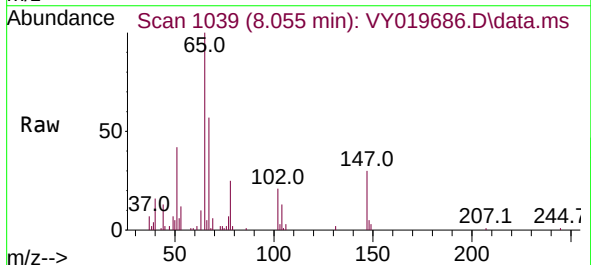


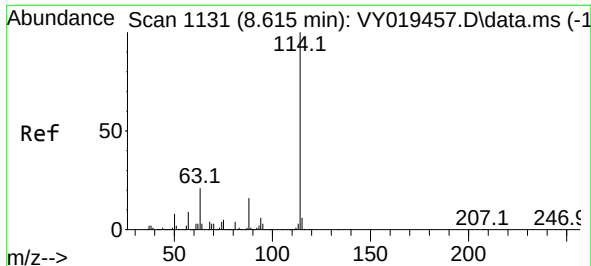
Tgt Ion: 56 Resp: 1184
Ion Ratio Lower Upper
56 100
69 118.3 28.7 43.1#
84 100.0 77.7 116.5



#33
1,2-Dichloroethane-d4
Concen: 41.844 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 65 Resp: 17872
Ion Ratio Lower Upper
65 100
67 52.3 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

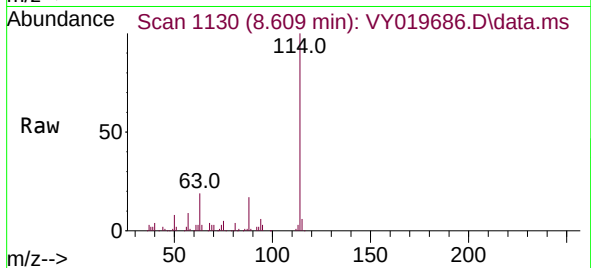
Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

ClientSampleId :



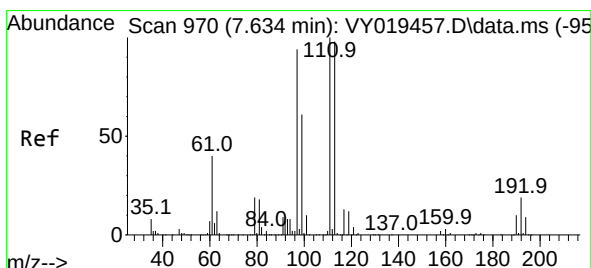
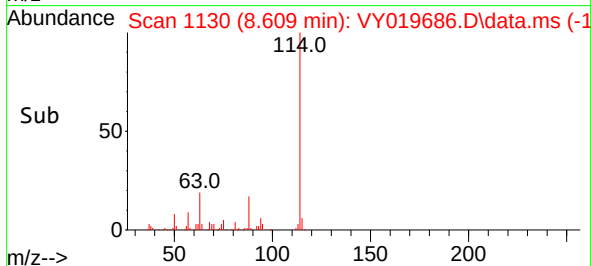
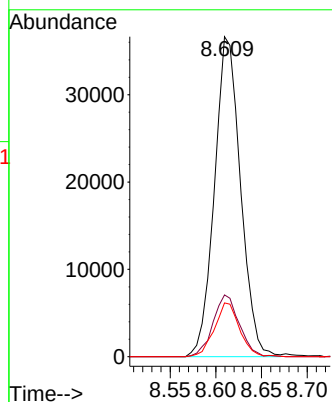
Tgt Ion:114 Resp: 72788

Ion Ratio Lower Upper

114 100

63 19.3 0.0 35.0

88 16.8 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.049 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

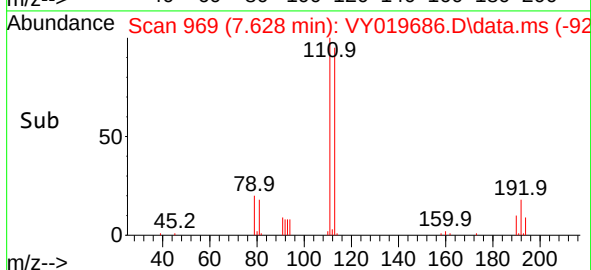
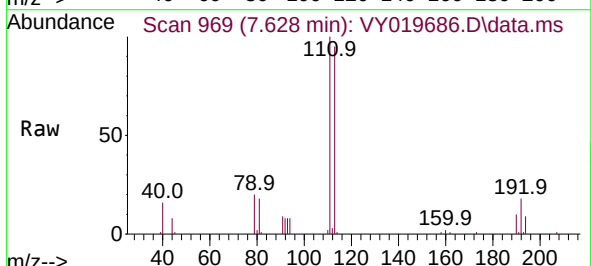
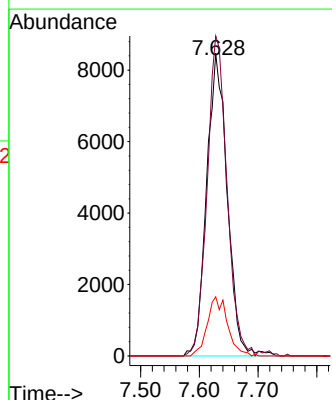
Tgt Ion:113 Resp: 20655

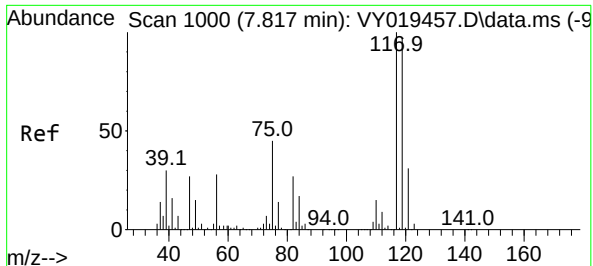
Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

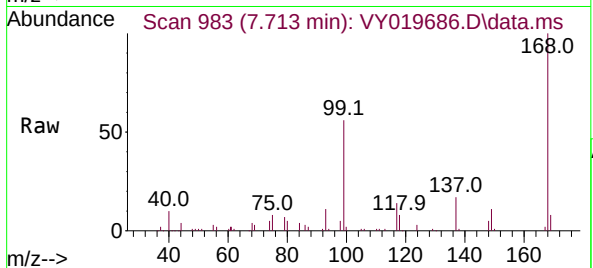
192 19.2 15.9 23.9



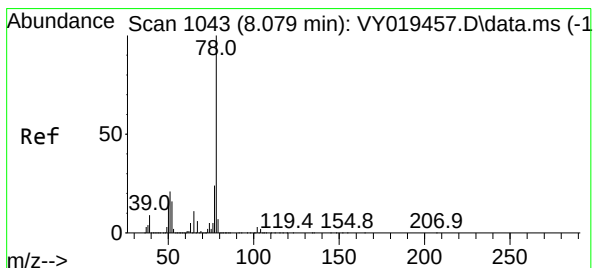
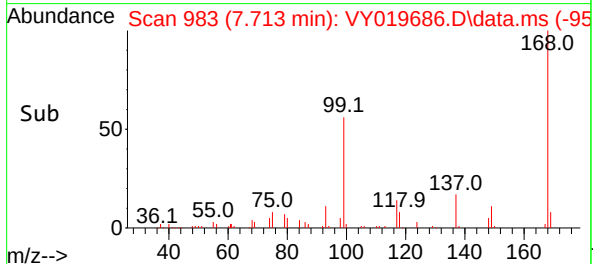
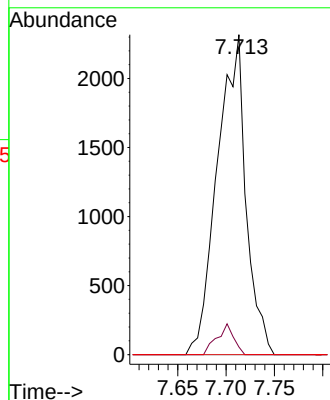


#38
Carbon Tetrachloride
Concen: 7.548 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.103 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Instrument :
MSVOA_Y
ClientSampleId :

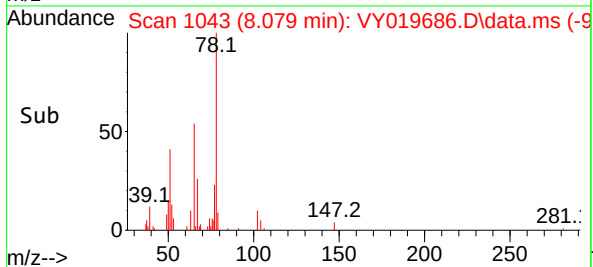
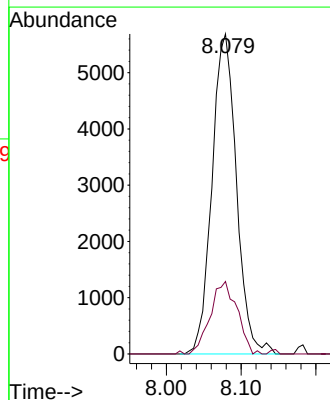
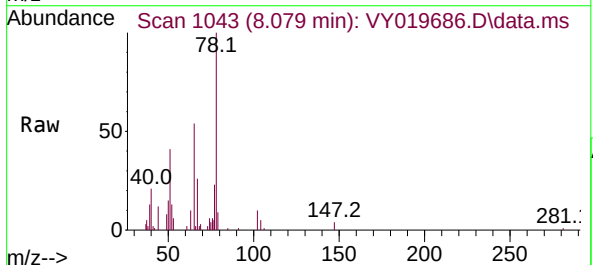


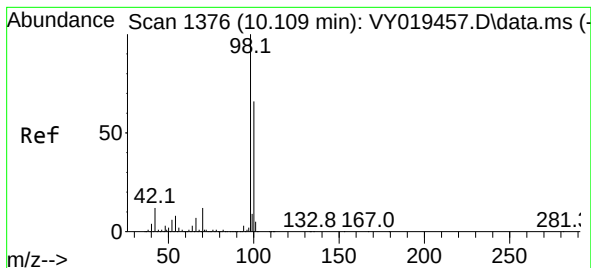
Tgt Ion:117 Resp: 4780
Ion Ratio Lower Upper
117 100
119 2.4 75.8 113.6#
121 0.0 24.0 36.0#



#40
Benzene
Concen: 7.487 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 78 Resp: 12950
Ion Ratio Lower Upper
78 100
77 22.6 19.5 29.3

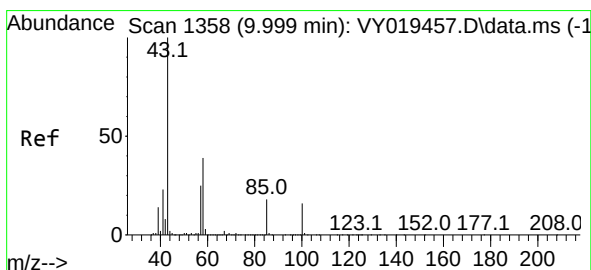
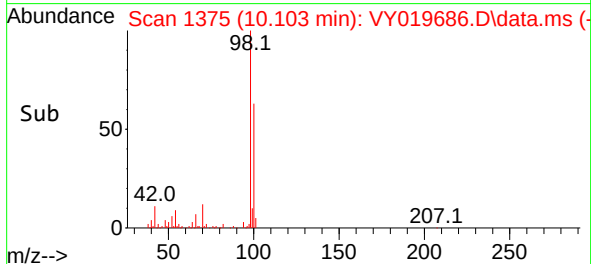
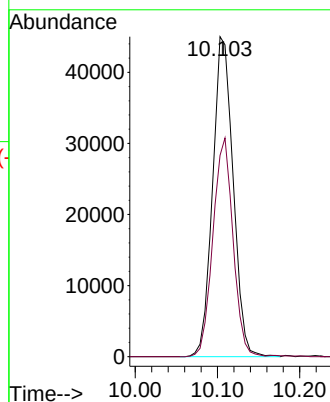
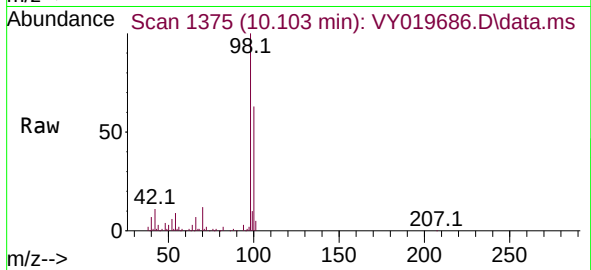




#50
Toluene-d8
Concen: 51.056 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

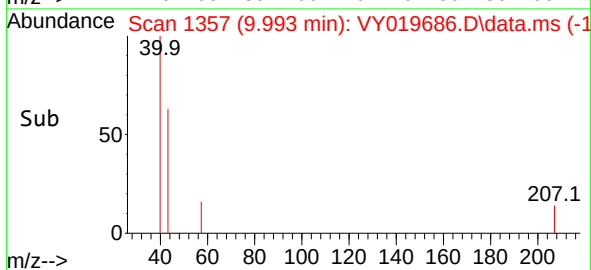
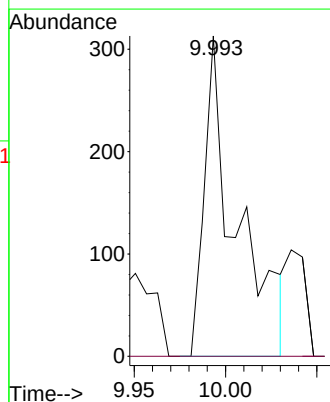
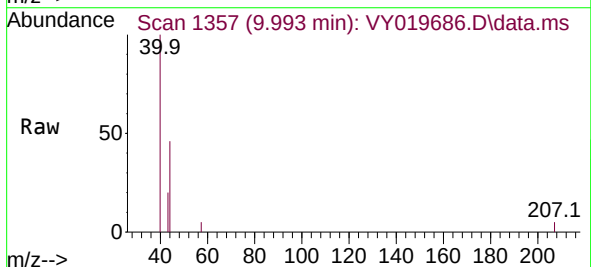
Instrument :
MSVOA_Y
ClientSampleId :

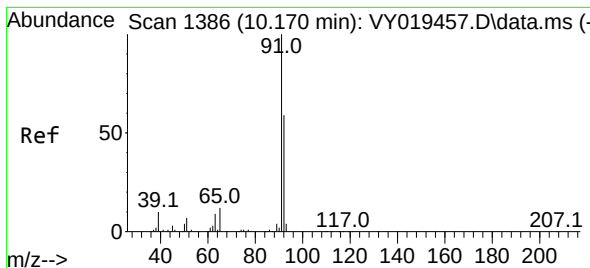
Tgt Ion: 98 Resp: 77935
Ion Ratio Lower Upper
98 100
100 66.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.259 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 43 Resp: 383
Ion Ratio Lower Upper
43 100
58 0.0 35.7 53.5#





#52

Toluene

Concen: 14.637 ug/l

RT: 10.170 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

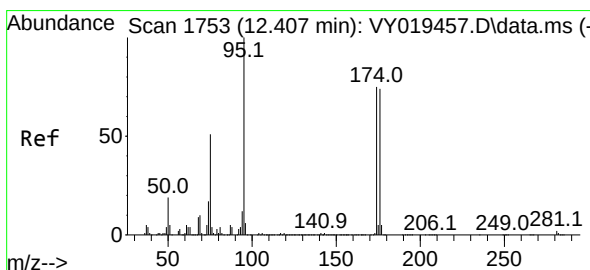
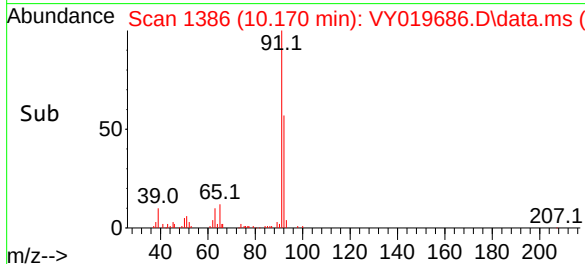
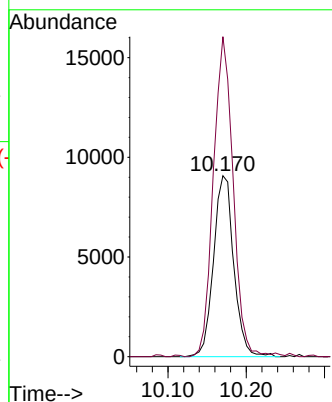
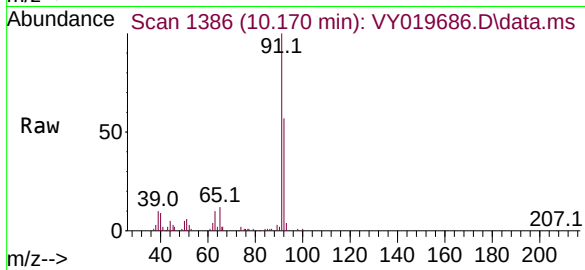
ClientSampleId :

Tgt Ion: 92 Resp: 16282

Ion Ratio Lower Upper

92 100

91 173.3 139.0 208.6



#62

4-Bromofluorobenzene

Concen: 32.501 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

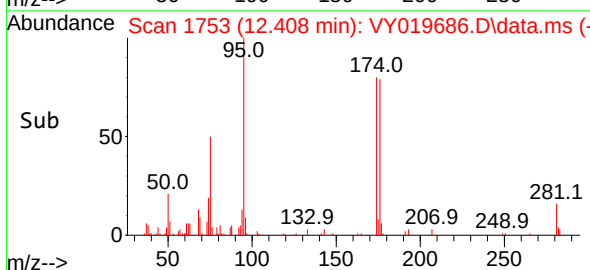
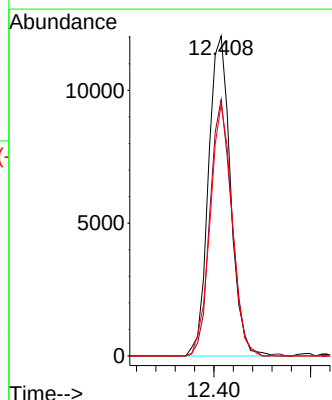
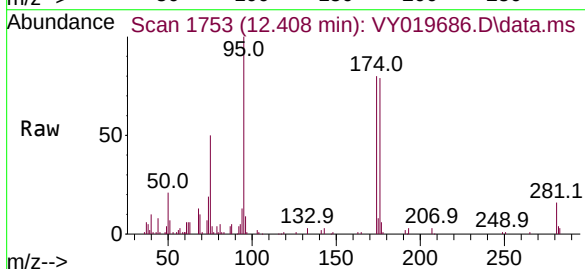
Tgt Ion: 95 Resp: 19076

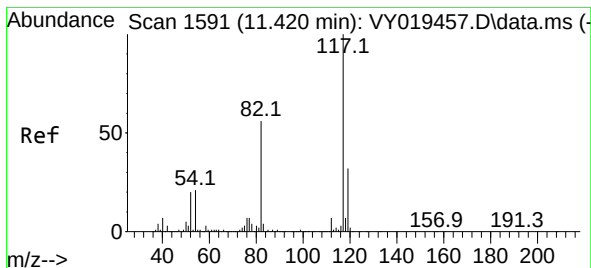
Ion Ratio Lower Upper

95 100

174 78.8 0.0 175.6

176 78.4 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019686.D

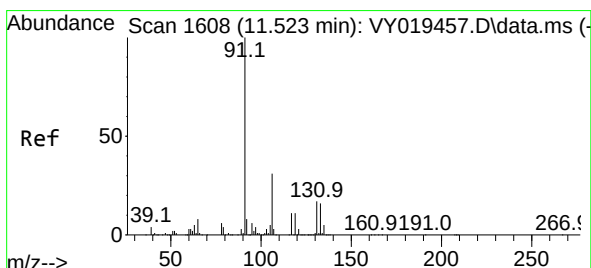
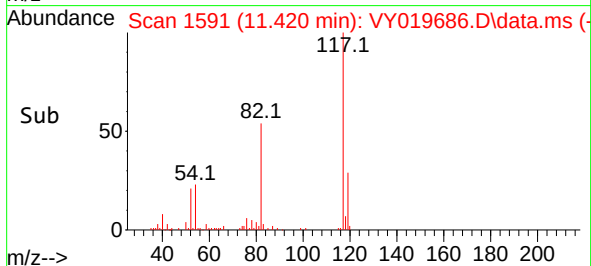
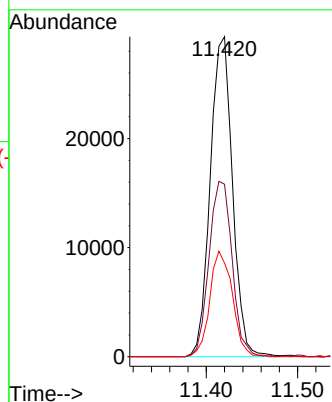
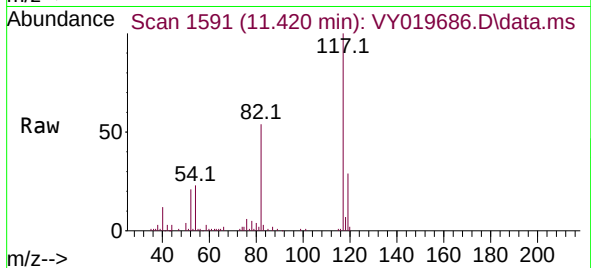
Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	49605
Ion	Ratio	Lower Upper
117	100	
82	53.9	42.4 63.6
119	29.3	25.9 38.9



#67

Ethyl Benzene

Concen: 3.624 ug/l

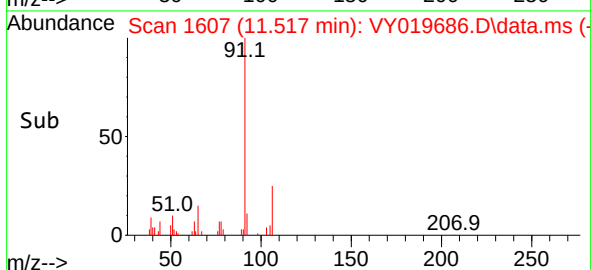
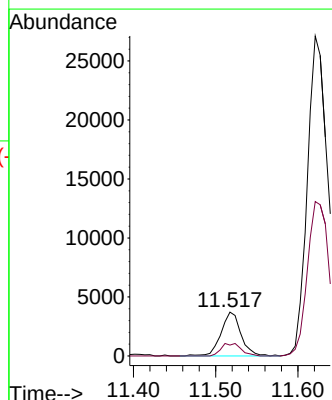
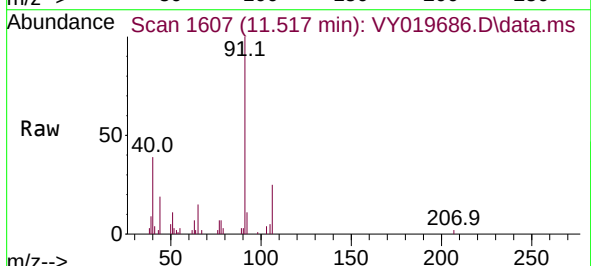
RT: 11.517 min Scan# 1607

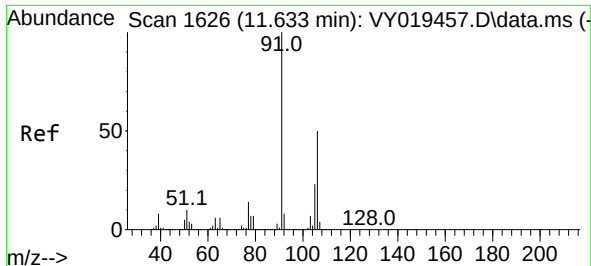
Delta R.T. -0.006 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Tgt Ion: 91	Resp:	6283
Ion	Ratio	Lower Upper
91	100	
106	24.7	24.5 36.7

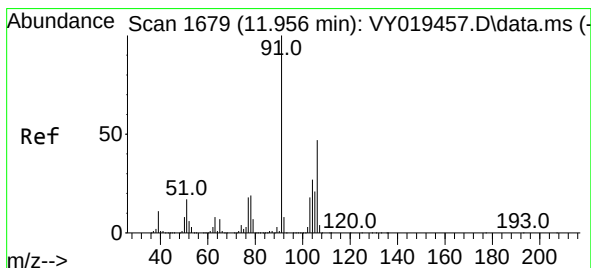
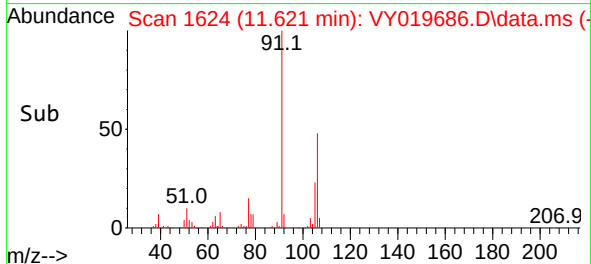
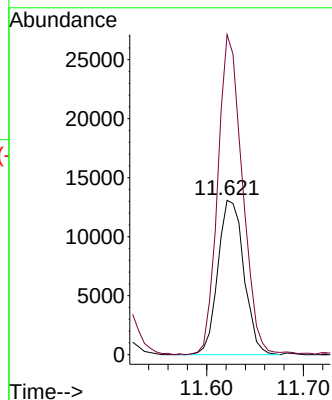
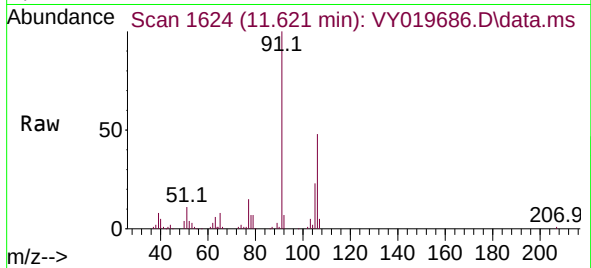




#68
m/p-Xylenes
Concen: 37.204 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

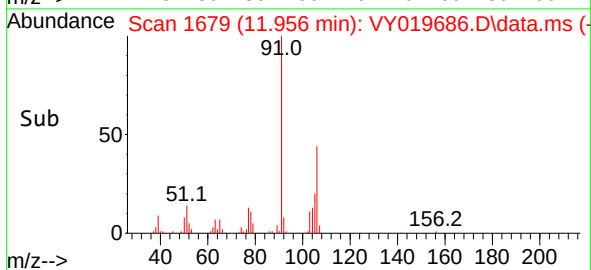
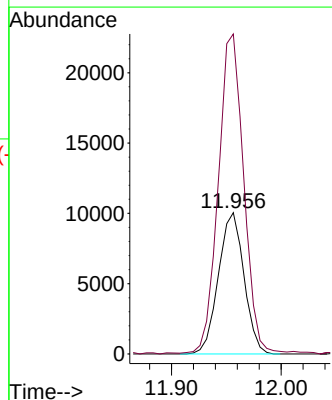
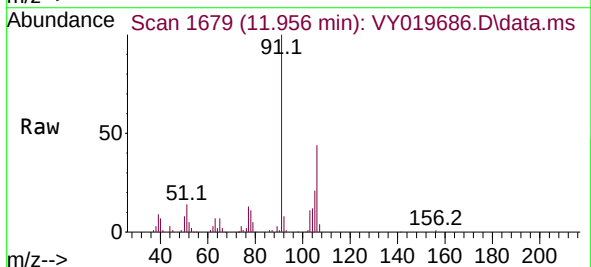
Instrument :
MSVOA_Y
ClientSampleId :

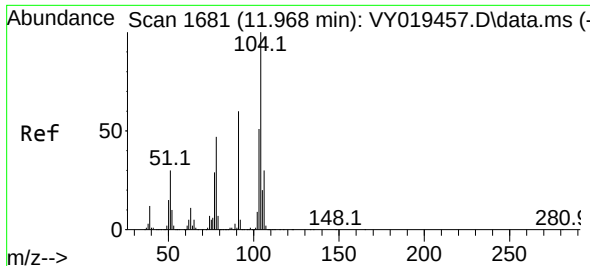
Tgt Ion:106 Resp: 24390
Ion Ratio Lower Upper
106 100
91 197.5 156.0 234.0



#69
o-Xylene
Concen: 25.361 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion:106 Resp: 16260
Ion Ratio Lower Upper
106 100
91 227.5 103.6 310.8

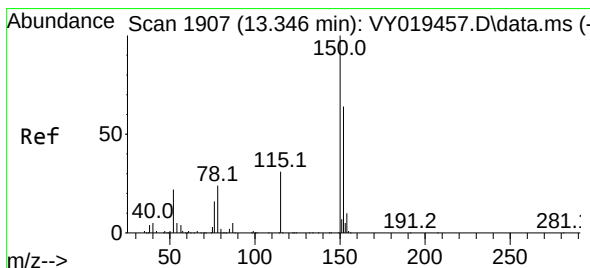
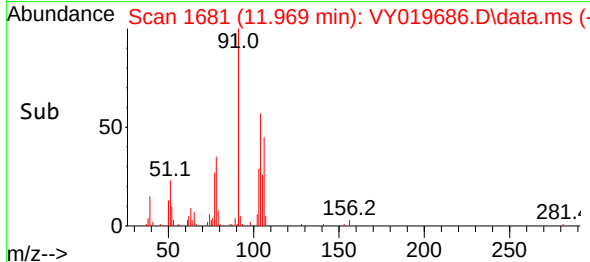
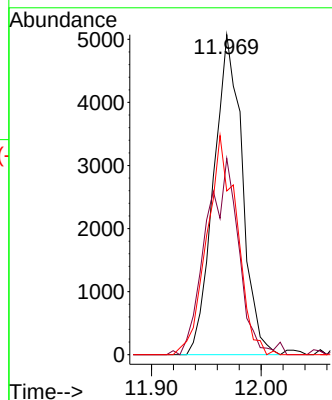
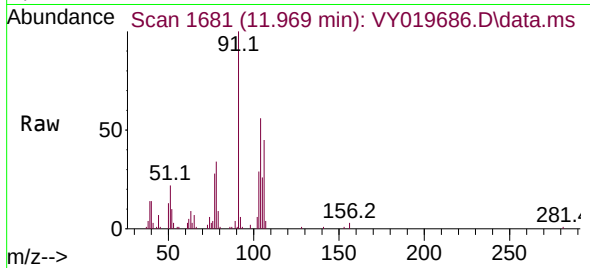




#70
Styrene
Concen: 8.471 ug/l
RT: 11.969 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

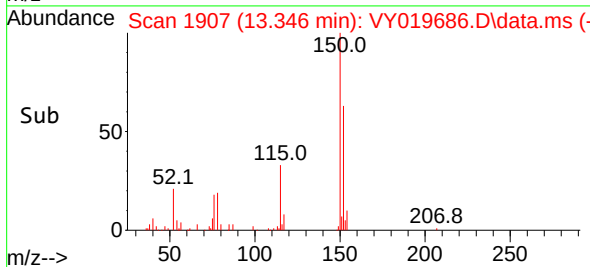
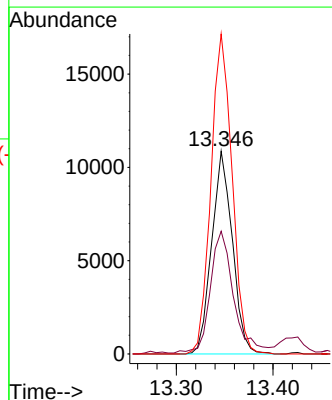
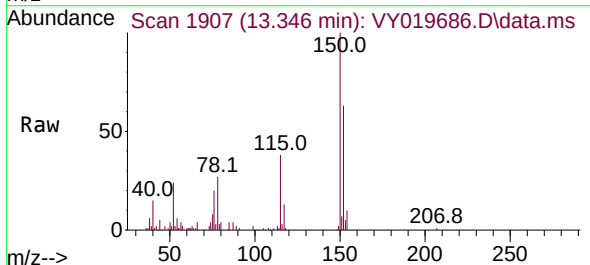
Instrument :
MSVOA_Y
ClientSampleId :

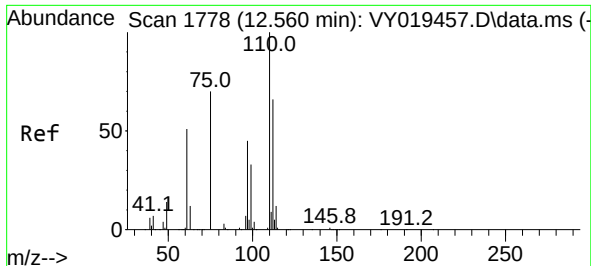
Tgt Ion:104 Resp: 9170
Ion Ratio Lower Upper
104 100
78 70.5 37.0 55.4#
103 71.6 44.2 66.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion:152 Resp: 16145
Ion Ratio Lower Upper
152 100
115 67.0 28.2 84.7
150 161.5 0.0 345.6

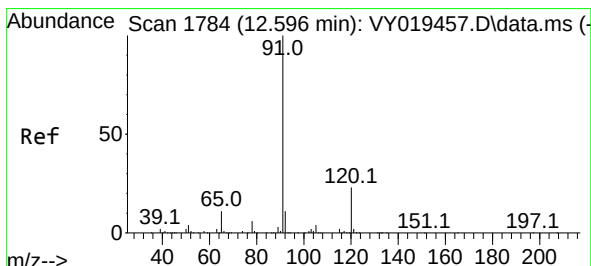
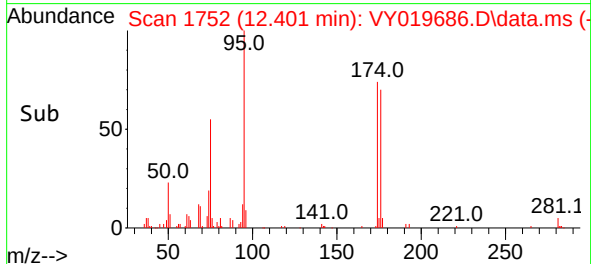
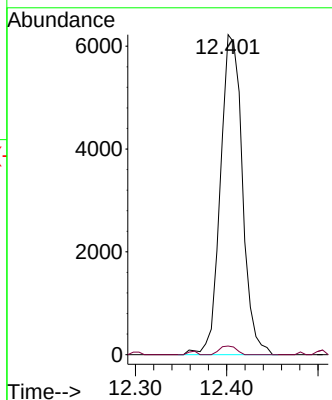
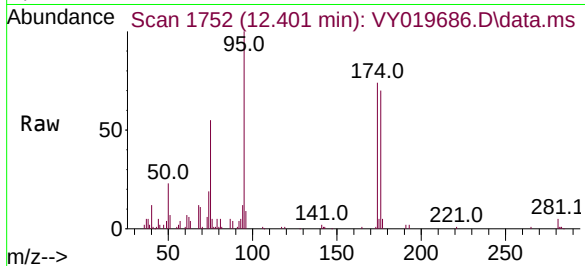




#76
1,2,3-Trichloropropane
Concen: 68.785 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.158 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

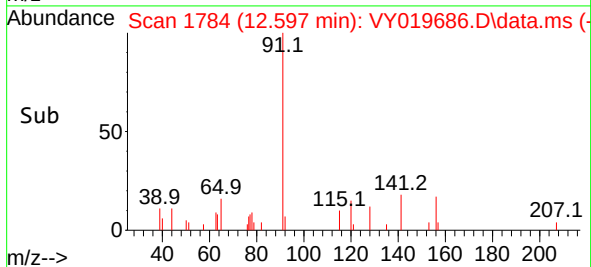
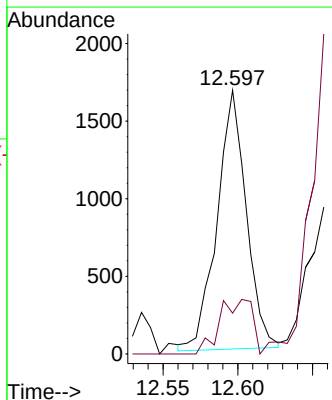
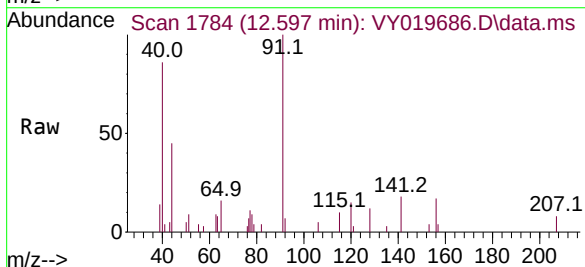
Instrument :
MSVOA_Y
ClientSampleId :

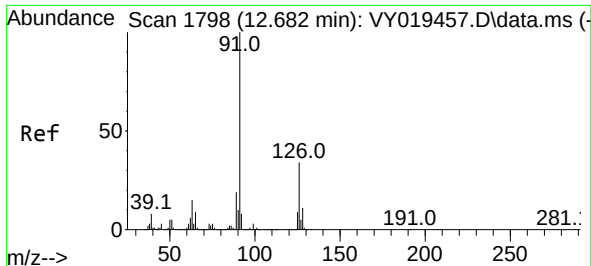
Tgt Ion: 75 Resp: 10409
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#78
n-propylbenzene
Concen: 1.637 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 91 Resp: 2273
Ion Ratio Lower Upper
91 100
120 24.7 11.5 34.4

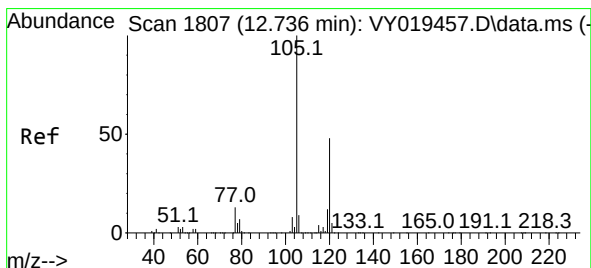
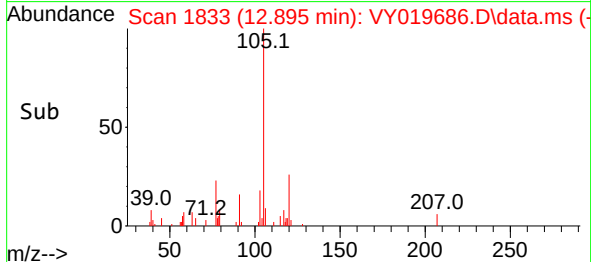
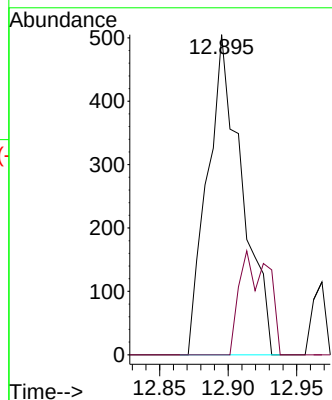
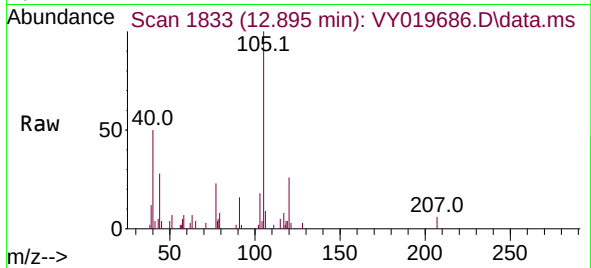




#79
2-Chlorotoluene
Concen: 1.093 ug/l
RT: 12.895 min Scan# 1833
Delta R.T. 0.214 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

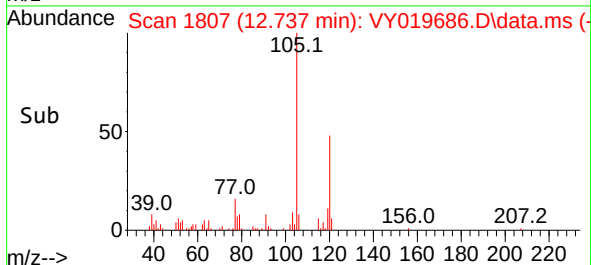
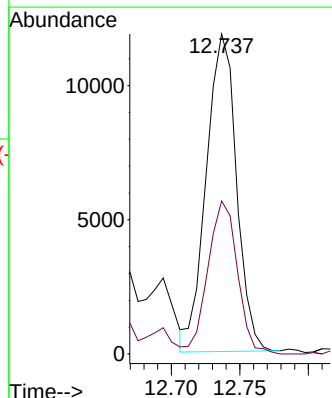
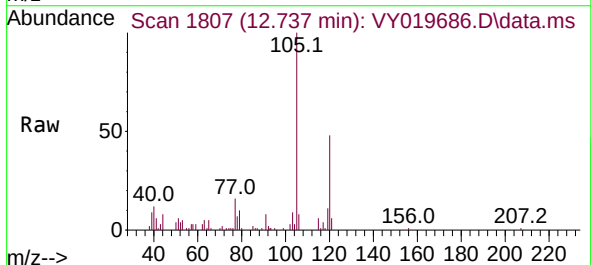
Instrument :
MSVOA_Y
ClientSampleId :

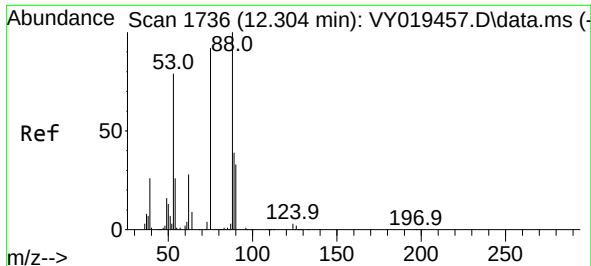
Tgt Ion: 91 Resp: 884
Ion Ratio Lower Upper
91 100
126 26.9 17.8 53.5



#80
1,3,5-Trimethylbenzene
Concen: 19.062 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 105 Resp: 18151
Ion Ratio Lower Upper
105 100
120 47.0 25.1 75.2

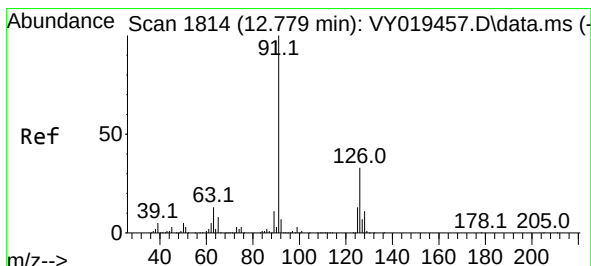
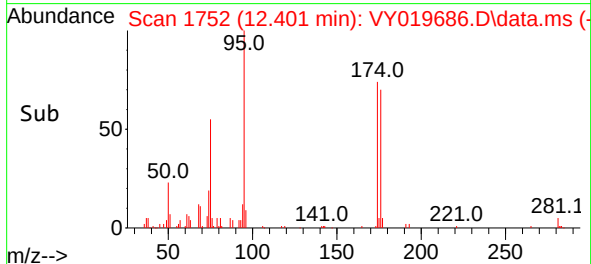
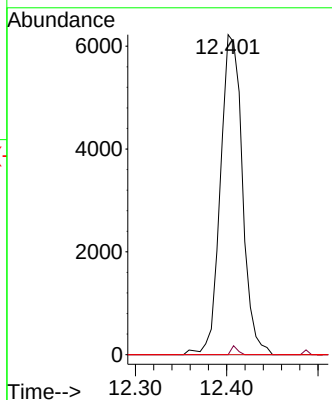
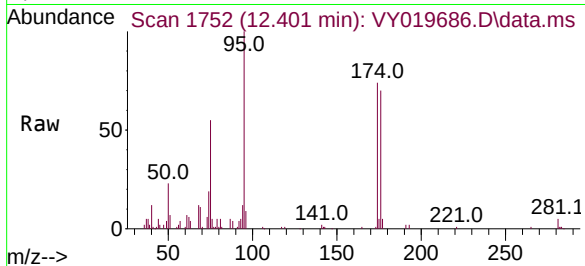




#81
trans-1,4-Dichloro-2-butene
Concen: 132.048 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

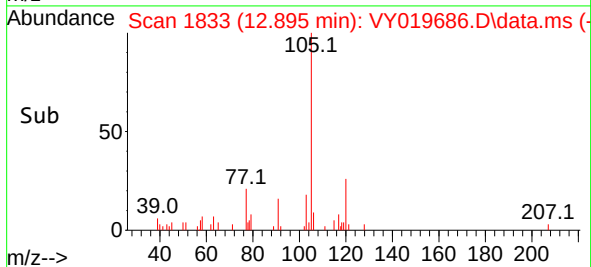
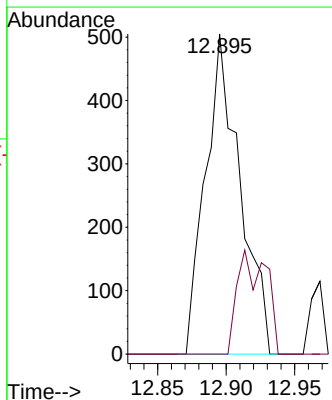
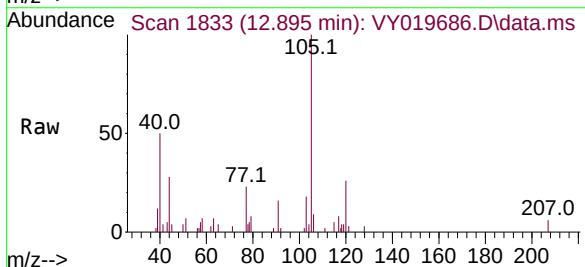
Instrument :
MSVOA_Y
ClientSampleId :

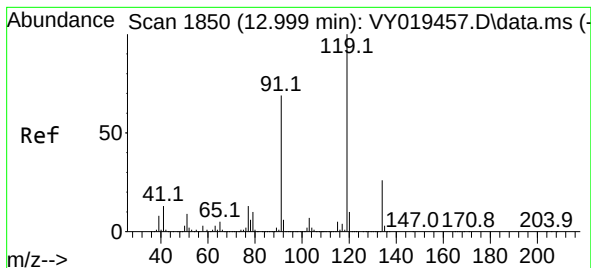
Tgt Ion: 75 Resp: 10409
Ion Ratio Lower Upper
75 100
53 0.8 66.8 100.2#
89 0.0 35.8 53.6#



#82
4-Chlorotoluene
Concen: 1.063 ug/l
RT: 12.895 min Scan# 1833
Delta R.T. 0.116 min
Lab File: VY019686.D
Acq: 24 Sep 2024 16:42

Tgt Ion: 91 Resp: 884
Ion Ratio Lower Upper
91 100
126 26.9 17.6 52.9





#83

tert-Butylbenzene

Concen: 5.895 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.043 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

ClientSampleId :

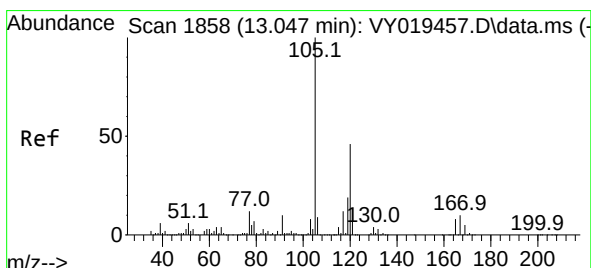
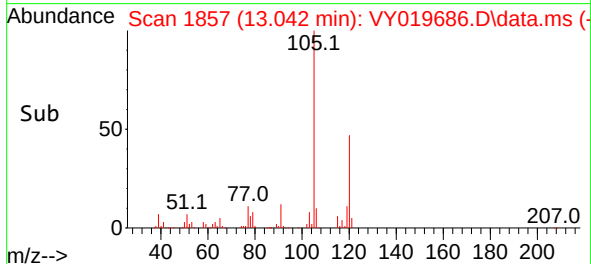
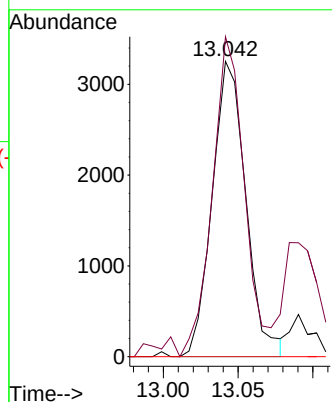
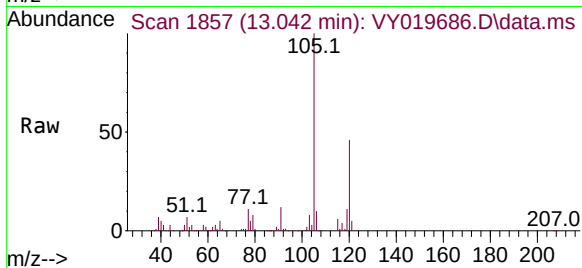
Tgt Ion:119 Resp: 5082

Ion Ratio Lower Upper

119 100

91 103.4 31.3 93.8#

134 0.0 13.4 40.1#



#84

1,2,4-Trimethylbenzene

Concen: 46.857 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY019686.D

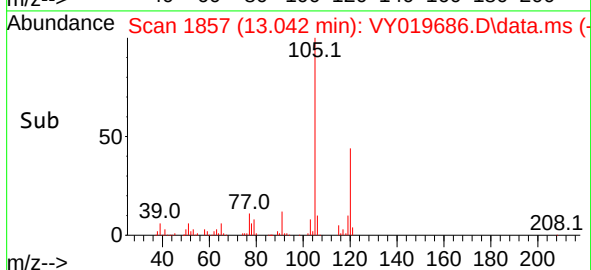
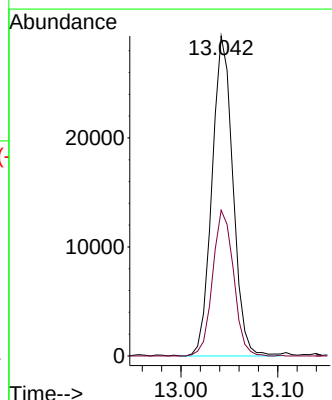
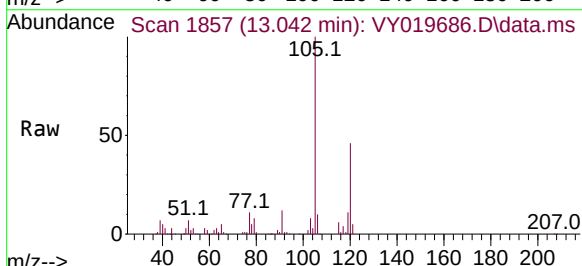
Acq: 24 Sep 2024 16:42

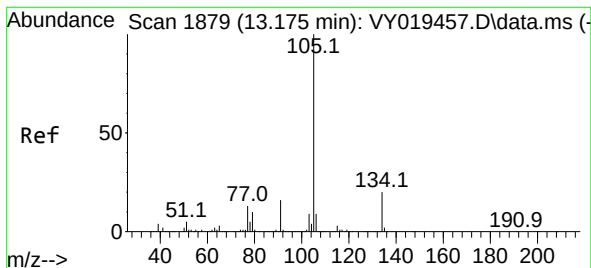
Tgt Ion:105 Resp: 44165

Ion Ratio Lower Upper

105 100

120 45.4 23.2 69.6





#85

sec-Butylbenzene

Concen: 35.268 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.134 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

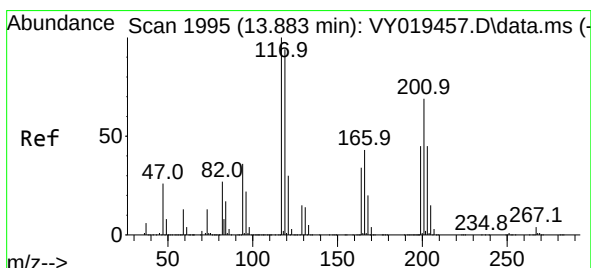
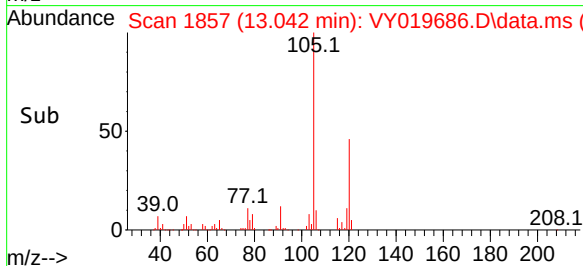
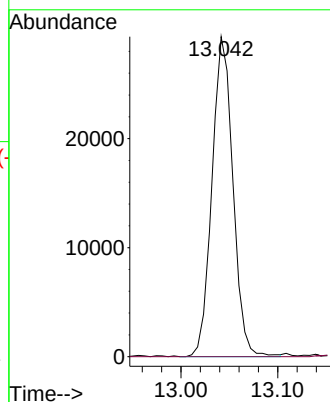
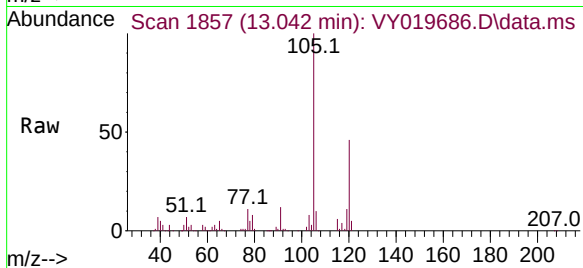
ClientSampleId :

Tgt Ion:105 Resp: 44165

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#



#90

Hexachloroethane

Concen: 4.785 ug/l

RT: 13.883 min Scan# 1995

Delta R.T. 0.000 min

Lab File: VY019686.D

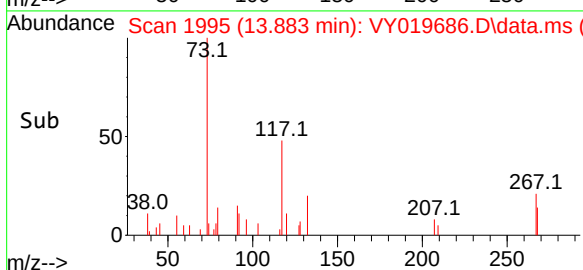
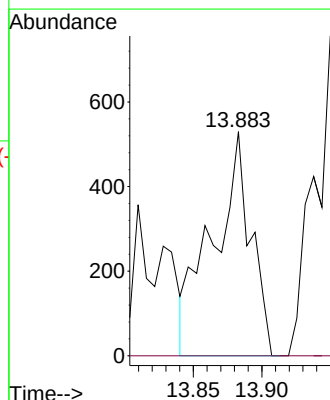
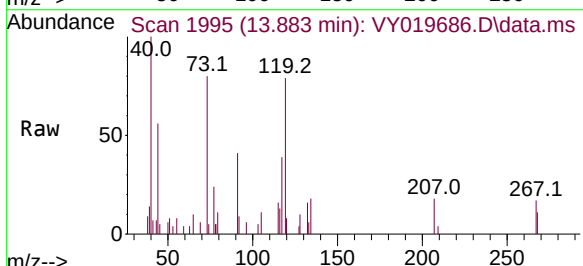
Acq: 24 Sep 2024 16:42

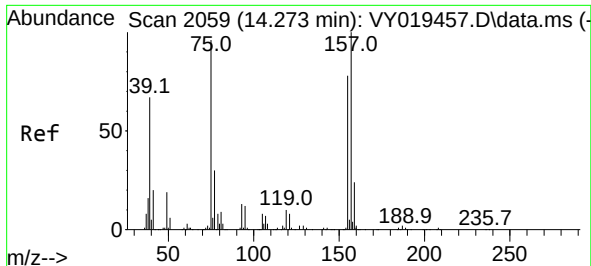
Tgt Ion:117 Resp: 1020

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.311 ug/l

RT: 14.279 min Scan# 2059

Delta R.T. 0.006 min

Lab File: VY019686.D

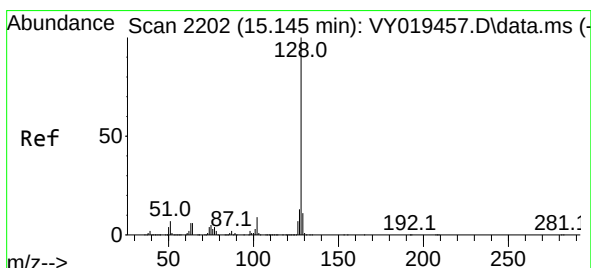
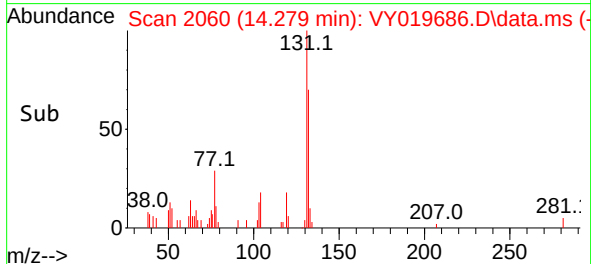
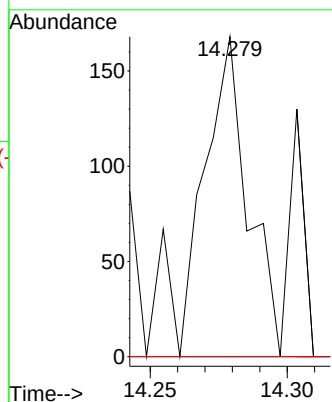
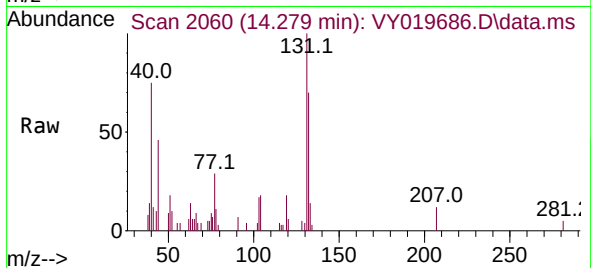
Acq: 24 Sep 2024 16:42

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 75	Resp:	184
Ion Ratio	Lower	Upper
75	100	
155	0.0	48.6 145.8#
157	0.0	62.7 188.2#



#95

Naphthalene

Concen: 1821.725 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY019686.D

Acq: 24 Sep 2024 16:42

Tgt Ion: 128	Resp:	999444
Ion Ratio	Lower	Upper
128	100	
127	12.9	10.6 16.0
129	11.1	8.6 13.0

