

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081424\
 Data File : VY019057.D
 Acq On : 14 Aug 2024 14:36
 Operator : SY/MD
 Sample : P3580-02
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 14 21:46:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080824S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 09 04:24:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.695	168	1148	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1495	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	252	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	686	68.060	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	136.120%
35) Dibromofluoromethane	7.610	113	583	49.636	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.280%
50) Toluene-d8	10.097	98	1956	43.356	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.720%
62) 4-Bromofluorobenzene	12.408	95	365	27.270	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	54.540%

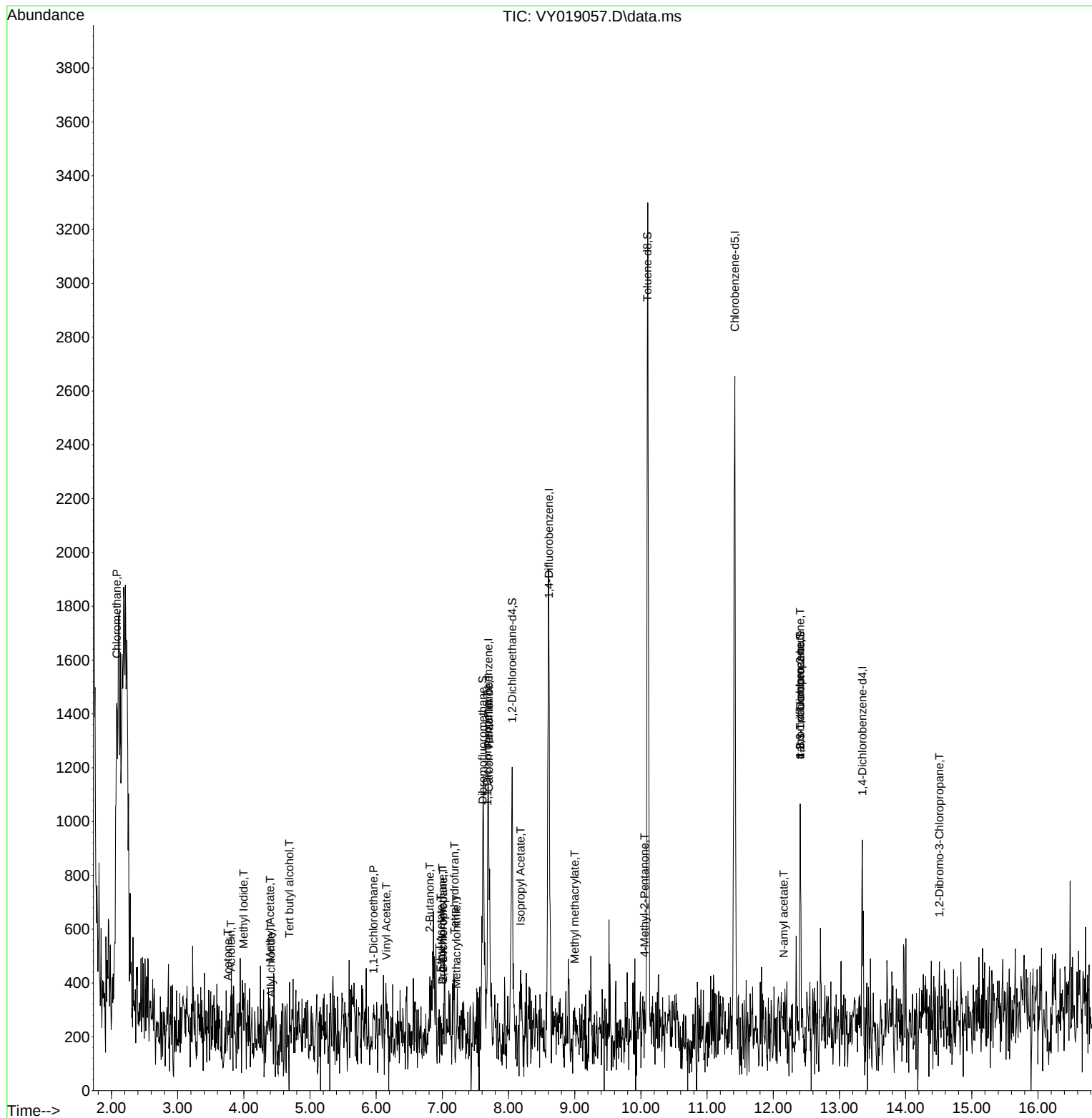
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.080	50	151	6.011	ug/l #	43
10) Methyl Iodide	3.994	142	45	3.785	ug/l #	42
11) Tert butyl alcohol	4.689	59	73	40.267	ug/l #	88
13) Acrolein	3.805	56	19	15.866	ug/l #	15
14) Allyl chloride	4.409	41	19	1.366	ug/l #	1
16) Acetone	3.757	43	22	20.551	ug/l #	36
18) Methyl Acetate	4.397	43	66	11.781	ug/l #	46
23) Vinyl Acetate	6.153	43	27	1.032	ug/l #	67
24) 1,1-Dichloroethane	5.958	63	48	2.580	ug/l #	80
25) 2-Butanone	6.811	43	40	12.257	ug/l #	41
26) 2,2-Dichloropropane	7.012	77	19	1.085	ug/l #	51
28) Bromochloromethane	7.000	49	22	2.568	ug/l #	6
29) Tetrahydrofuran	7.183	42	54	28.062	ug/l #	26
31) Cyclohexane	7.469	56	44	Below Cal	#	11
36) 1,1-Dichloropropene	7.683	75	44	2.791	ug/l #	40
37) Ethyl Acetate	6.976	43	21	2.914	ug/l #	67
38) Carbon Tetrachloride	7.701	117	65	3.596	ug/l #	13
41) Methacrylonitrile	7.213	41	22	4.824	ug/l #	1
43) Isopropyl Acetate	8.183	43	28	1.911	ug/l #	47
48) Methyl methacrylate	9.000	41	65	10.152	ug/l #	7
51) 4-Methyl-2-Pentanone	10.054	43	27	3.572	ug/l #	31
74) N-amyl acetate	12.158	43	52	12.319	ug/l #	37
76) 1,2,3-Trichloropropane	12.408	75	87	46.342	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	87	95.491	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.511	75	20	49.253	ug/l #	1

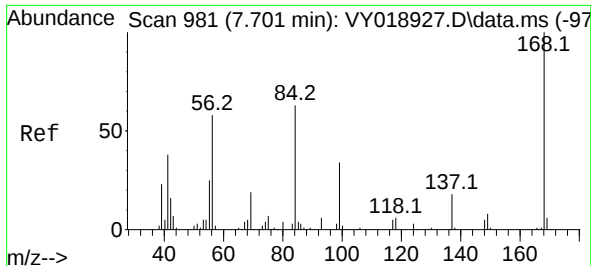
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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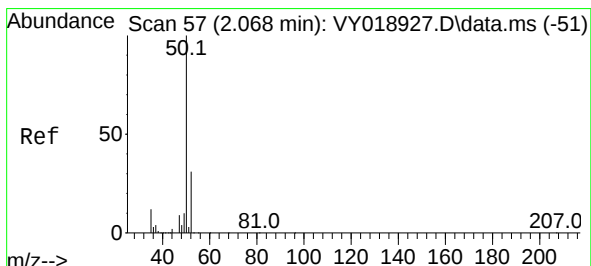
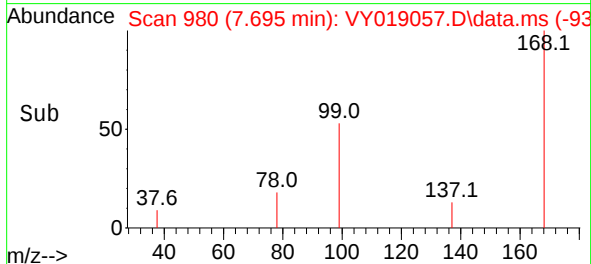
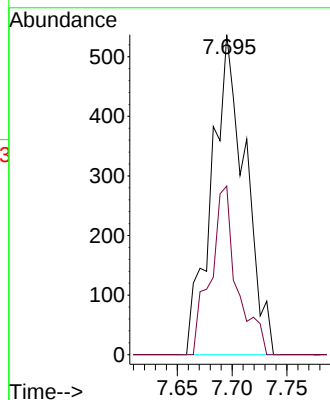
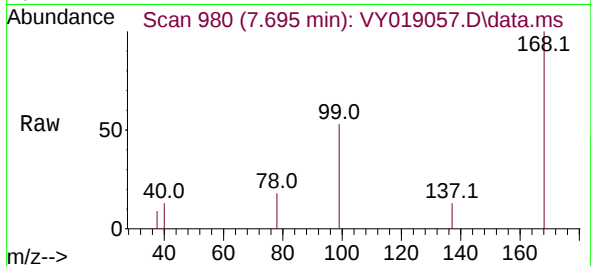




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 99
Delta R.T. -0.006 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

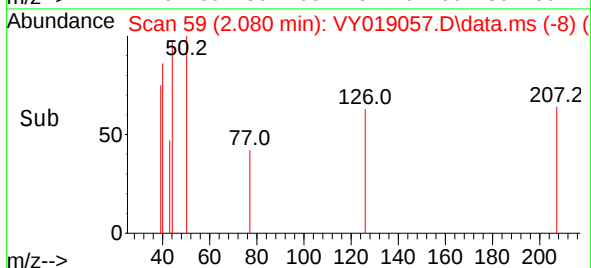
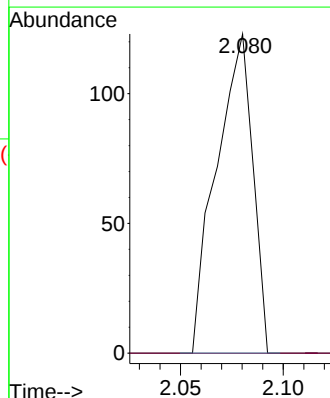
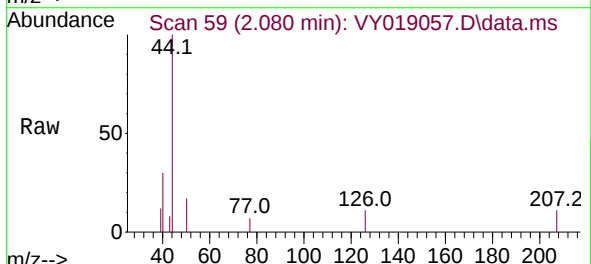
Instrument :
MSVOA_Y
ClientSampleId :

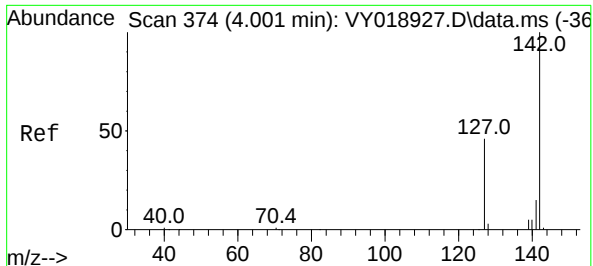
Tgt Ion:168 Resp: 1148
Ion Ratio Lower Upper
168 100
99 52.7 39.1 58.7



#3
Chloromethane
Concen: 6.011 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.012 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Tgt Ion: 50 Resp: 151
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#





#10

Methyl Iodide

Concen: 3.785 ug/l

RT: 3.994 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY019057.D

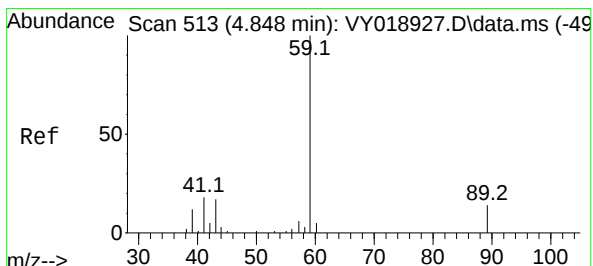
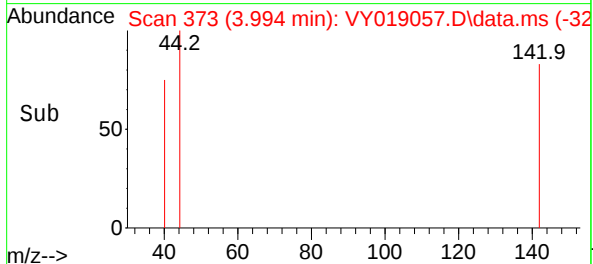
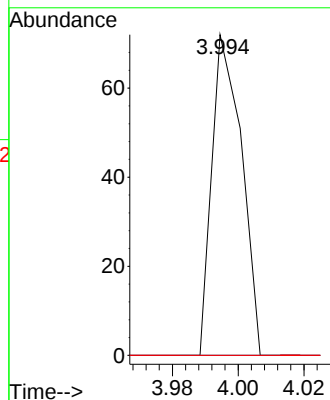
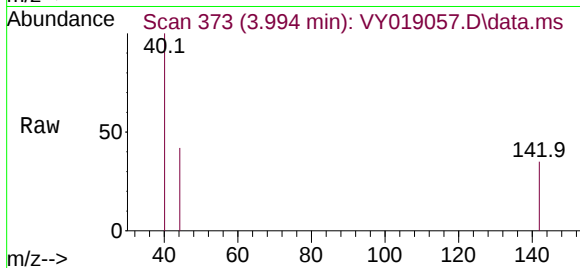
Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:142	Resp:	45
Ion Ratio	Lower	Upper
142	100	
127	0.0	32.8 49.2#
141	0.0	11.4 17.2#



#11

Tert butyl alcohol

Concen: 40.267 ug/l

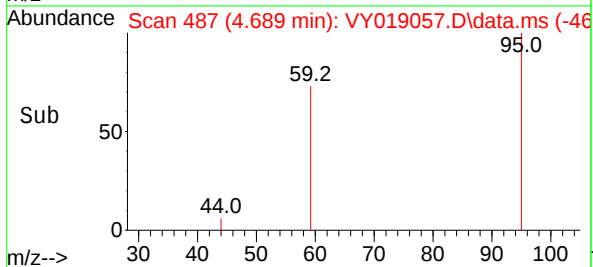
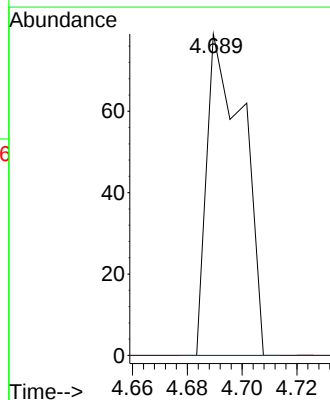
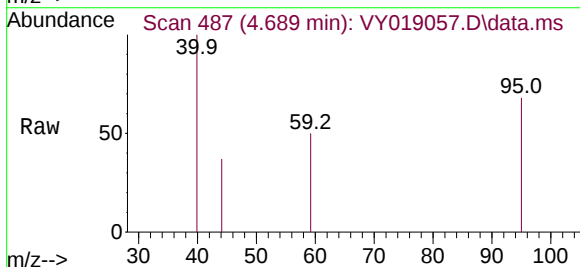
RT: 4.689 min Scan# 487

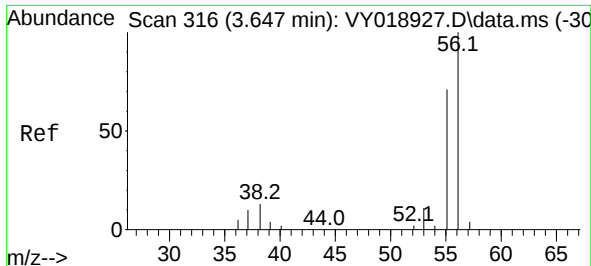
Delta R.T. -0.159 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Tgt Ion: 59	Resp:	73
Ion Ratio	Lower	Upper
59	100	
57	0.0	3.0 4.6#





#13

Acrolein

Concen: 15.866 ug/l

RT: 3.805 min Scan# 341

Delta R.T. 0.159 min

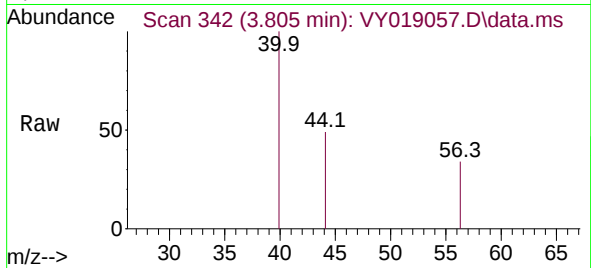
Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

ClientSampleId :

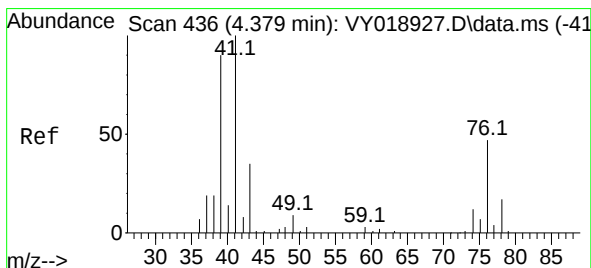
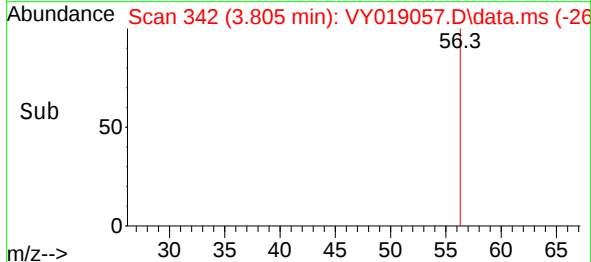
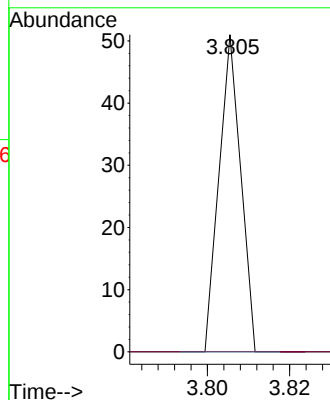


Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#14

Allyl chloride

Concen: 1.366 ug/l

RT: 4.409 min Scan# 441

Delta R.T. 0.030 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

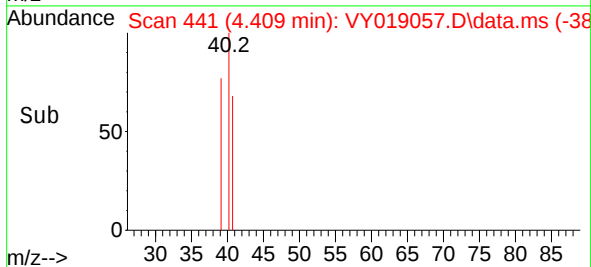
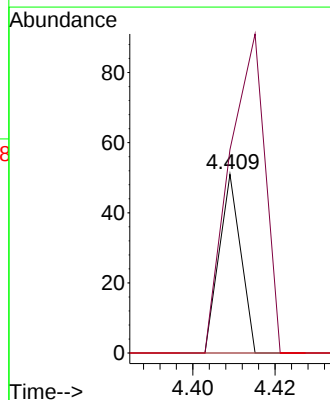
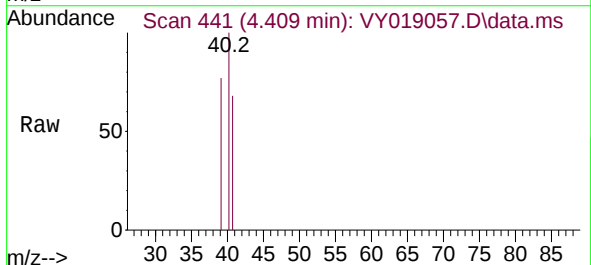
Tgt Ion: 41 Resp: 19

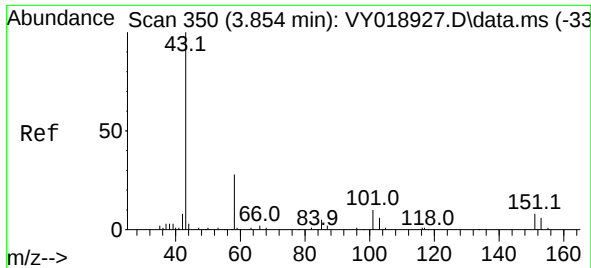
Ion Ratio Lower Upper

41 100

39 289.5 58.3 87.5#

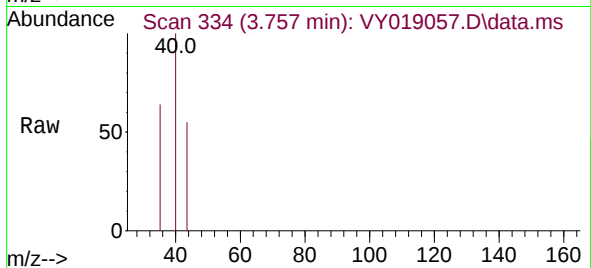
76 0.0 39.0 58.6#



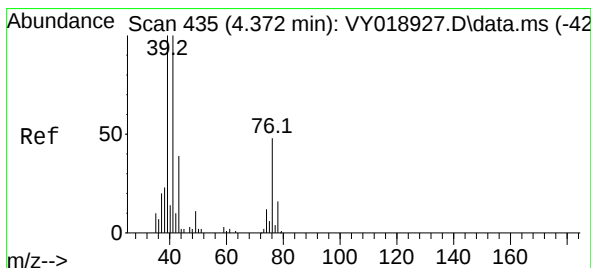
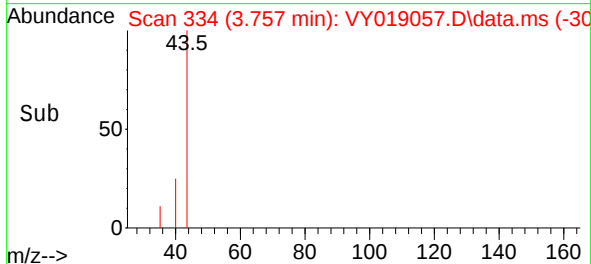
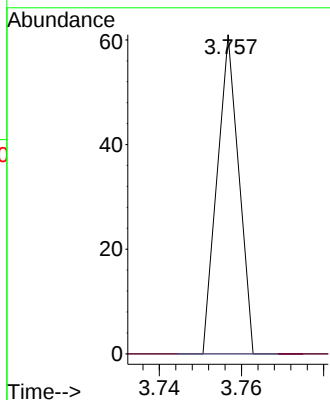


#16
Acetone
Concen: 20.551 ug/l
RT: 3.757 min Scan# 341
Delta R.T. -0.098 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Instrument :
MSVOA_Y
ClientSampleId :

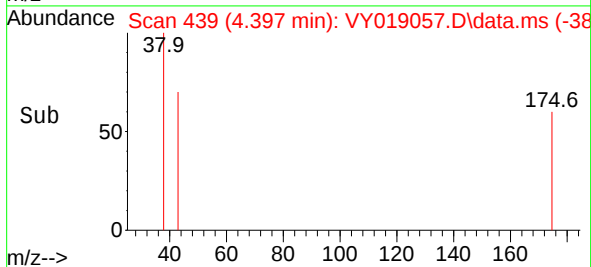
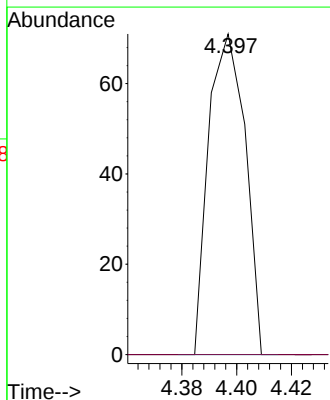
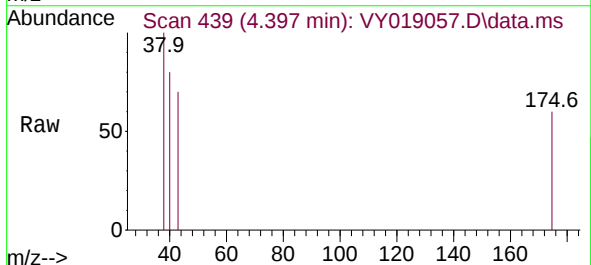


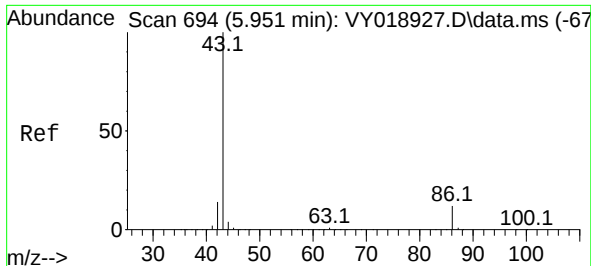
Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#18
Methyl Acetate
Concen: 11.781 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.024 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#

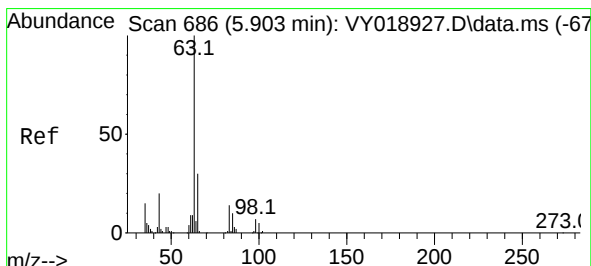
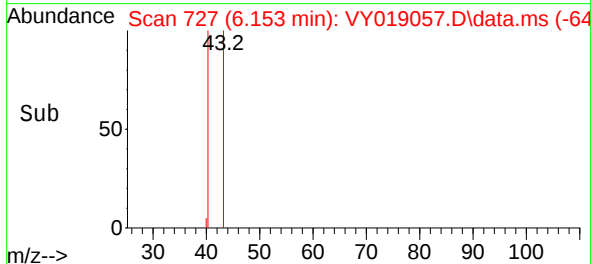
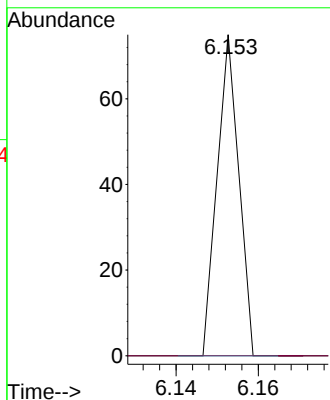
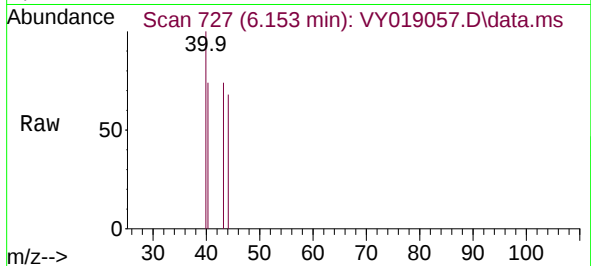




#23
 Vinyl Acetate
 Concen: 1.032 ug/l
 RT: 6.153 min Scan# 71
 Delta R.T. 0.201 min
 Lab File: VY019057.D
 Acq: 14 Aug 2024 14:36

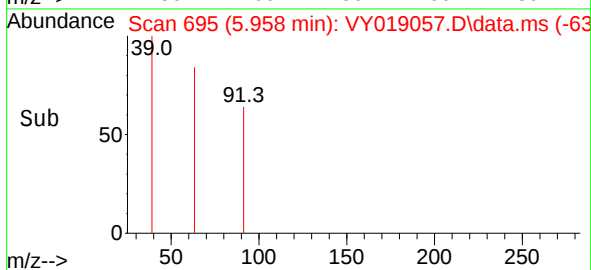
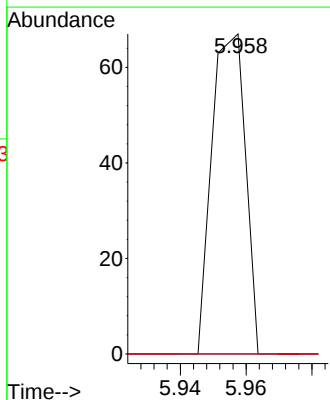
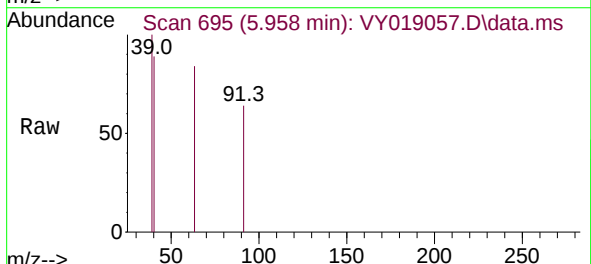
Instrument :
 MSVOA_Y
 ClientSampleId :

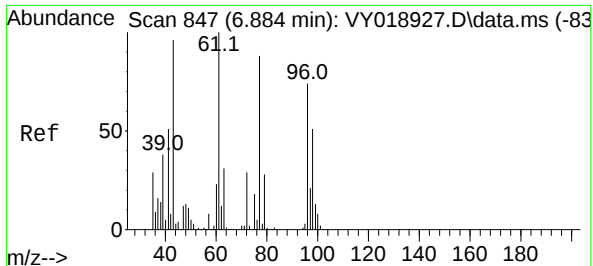
Tgt Ion: 43 Resp: 27
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.6 16.0#



#24
 1,1-Dichloroethane
 Concen: 2.580 ug/l
 RT: 5.958 min Scan# 695
 Delta R.T. 0.055 min
 Lab File: VY019057.D
 Acq: 14 Aug 2024 14:36

Tgt Ion: 63 Resp: 48
 Ion Ratio Lower Upper
 63 100
 98 0.0 4.0 12.2#
 100 0.0 2.6 8.0#





#25

2-Butanone

Concen: 12.257 ug/l

RT: 6.811 min Scan# 841

Delta R.T. -0.073 min

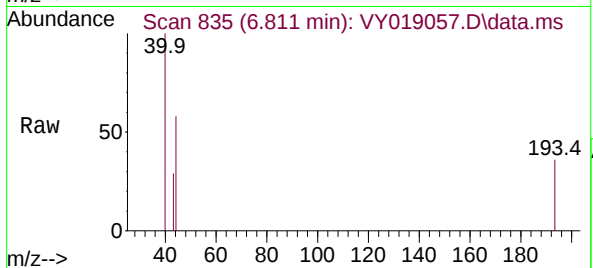
Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

ClientSampleId :

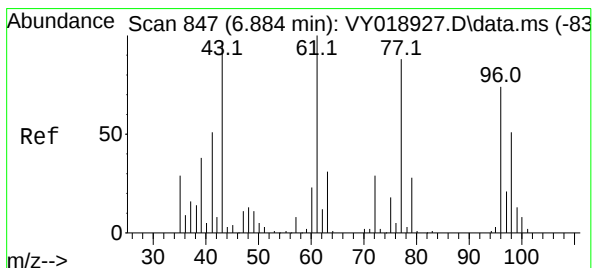
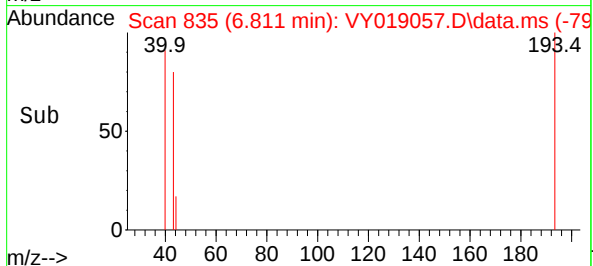
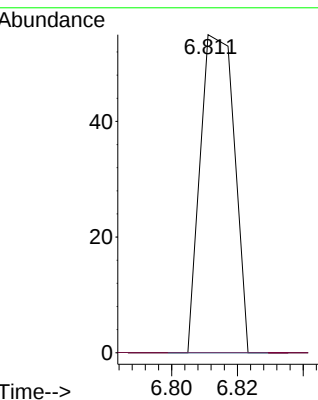


Tgt Ion: 43 Resp: 40

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#26

2,2-Dichloropropane

Concen: 1.085 ug/l

RT: 7.012 min Scan# 868

Delta R.T. 0.128 min

Lab File: VY019057.D

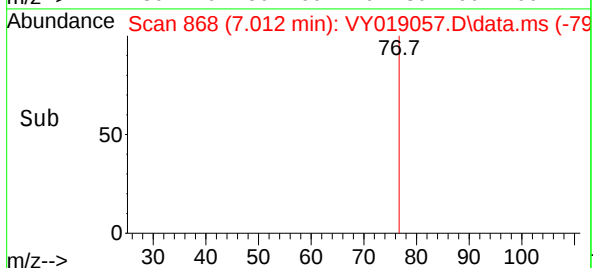
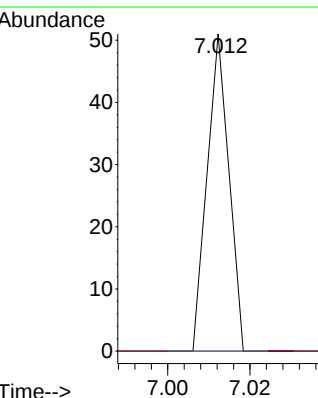
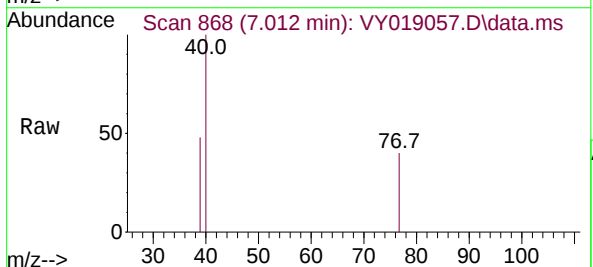
Acq: 14 Aug 2024 14:36

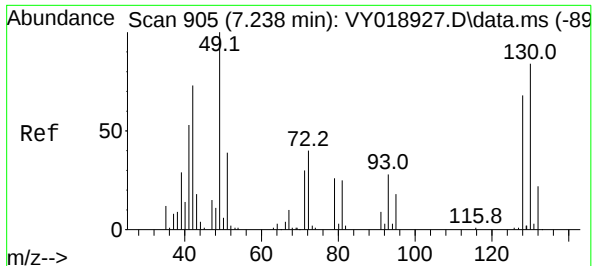
Tgt Ion: 77 Resp: 19

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#





#28

Bromochloromethane

Concen: 2.568 ug/l

RT: 7.000 min Scan# 80

Delta R.T. -0.238 min

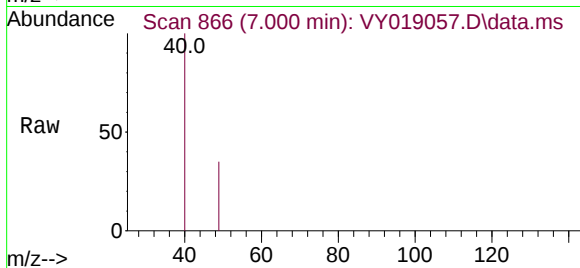
Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

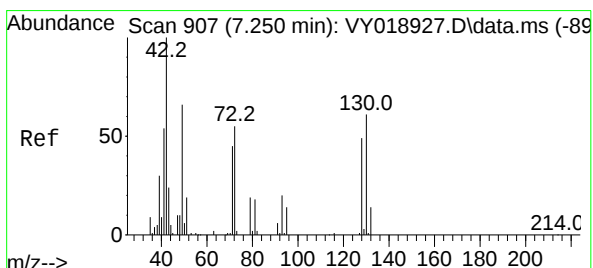
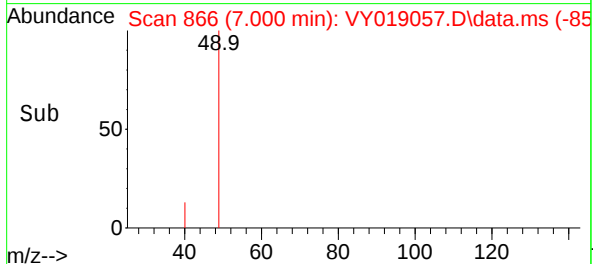
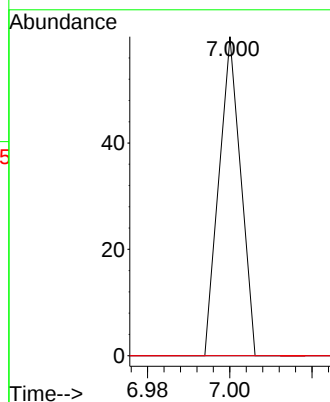
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	49	Resp:	22
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	0.0	72.7	109.1#



#29

Tetrahydrofuran

Concen: 28.062 ug/l

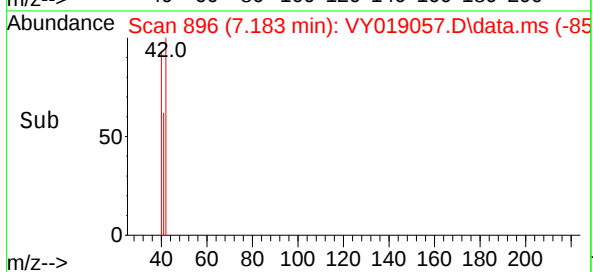
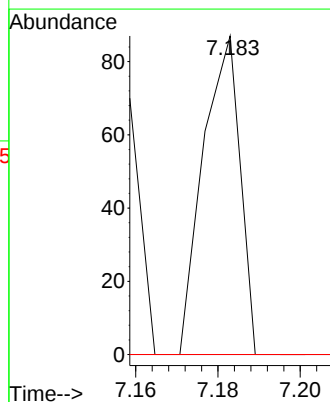
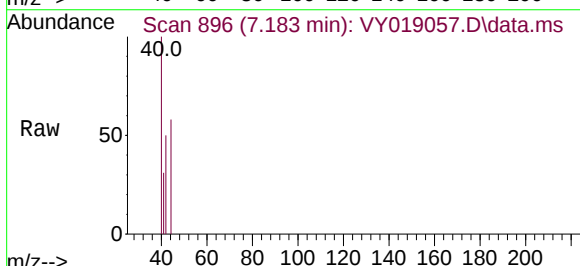
RT: 7.183 min Scan# 896

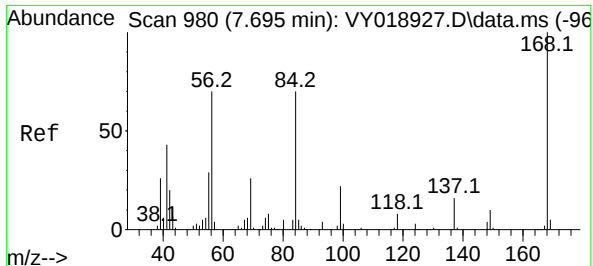
Delta R.T. -0.067 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

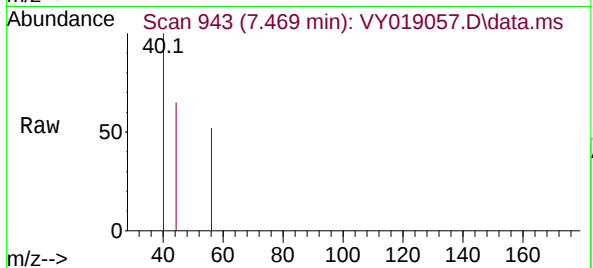
Tgt Ion:	42	Resp:	54
Ion	Ratio	Lower	Upper
42	100		
72	0.0	43.0	64.4#
71	0.0	40.8	61.2#



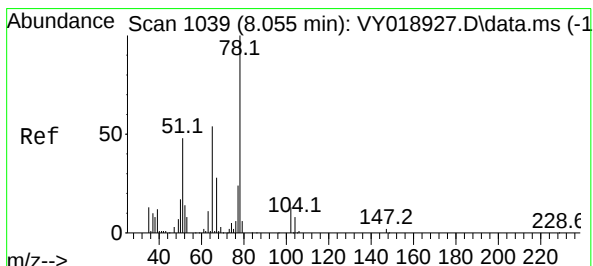
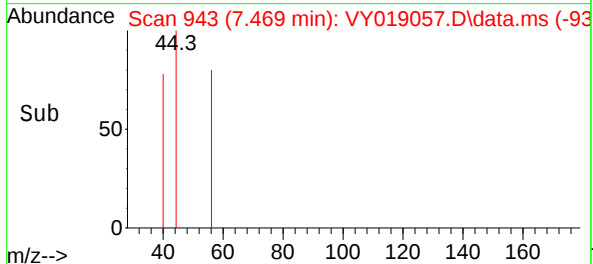
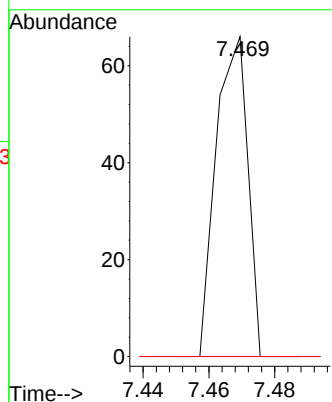


#31
Cyclohexane
Concen: Below Cal
RT: 7.469 min Scan# 943
Delta R.T. -0.226 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Instrument :
MSVOA_Y
ClientSampleId :

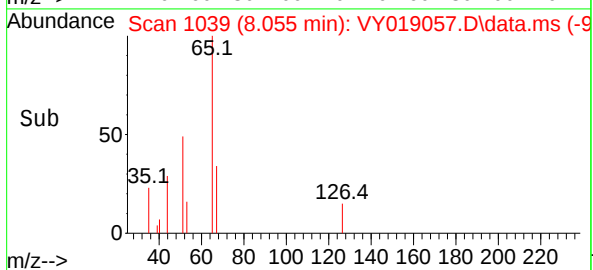
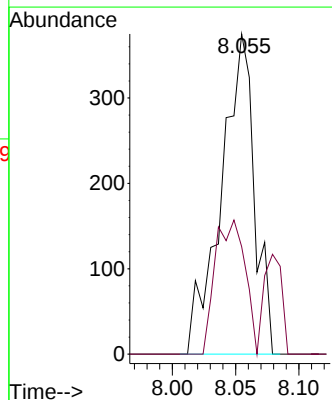
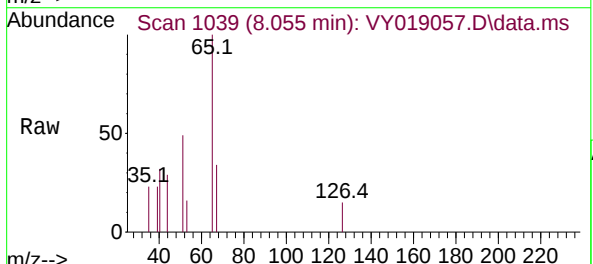


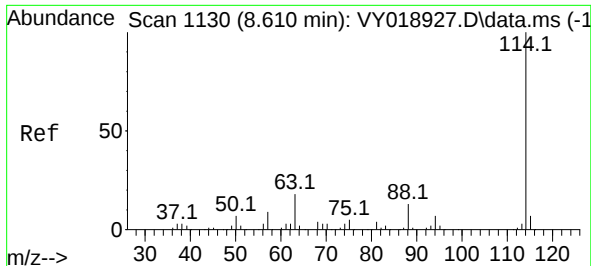
Tgt Ion: 56 Resp: 44
Ion Ratio Lower Upper
56 100
69 0.0 28.7 43.1#
84 0.0 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 68.060 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Tgt Ion: 65 Resp: 686
Ion Ratio Lower Upper
65 100
67 37.6 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY019057.D

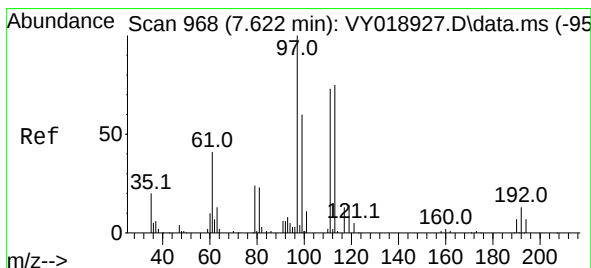
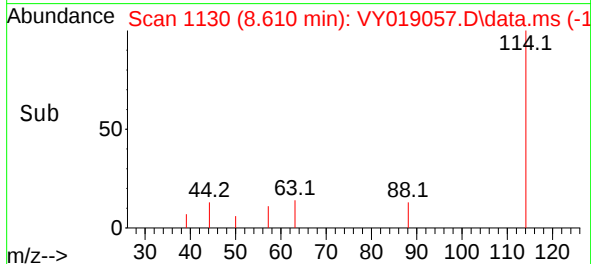
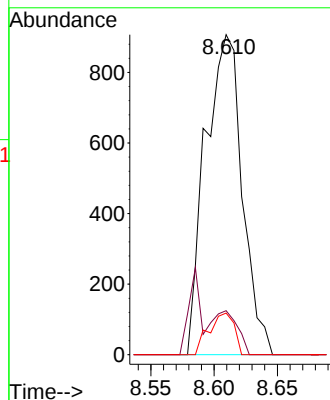
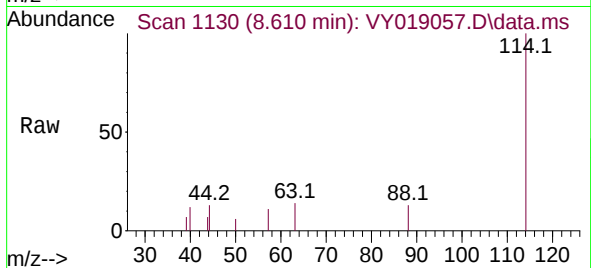
Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:114	Resp:	1839
Ion Ratio	Lower	Upper
114	100	
63	13.8	0.0 35.0
88	13.0	0.0 27.2



#35

Dibromofluoromethane

Concen: 49.636 ug/l

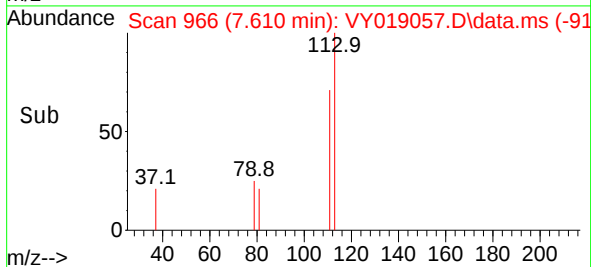
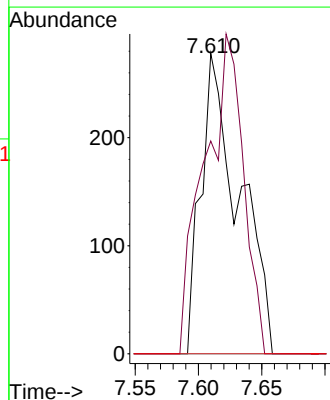
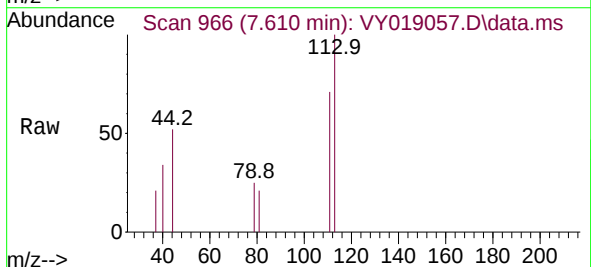
RT: 7.610 min Scan# 966

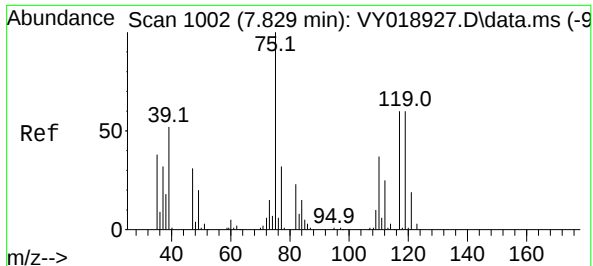
Delta R.T. -0.012 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

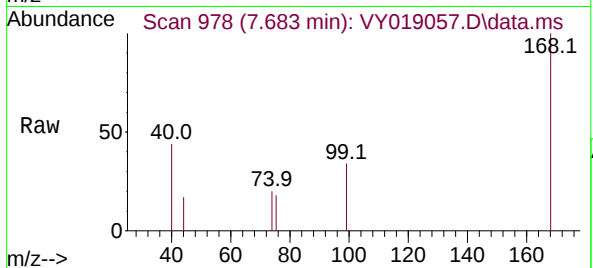
Tgt Ion:113	Resp:	583
Ion Ratio	Lower	Upper
113	100	
111	108.4	82.2 123.4
192	0.0	15.9 23.9#



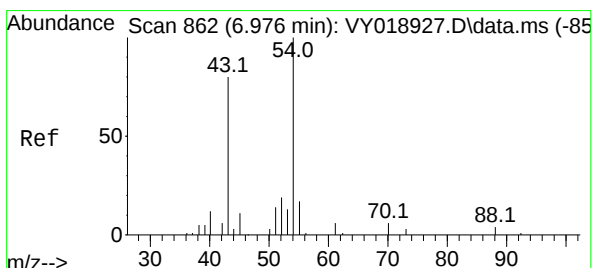
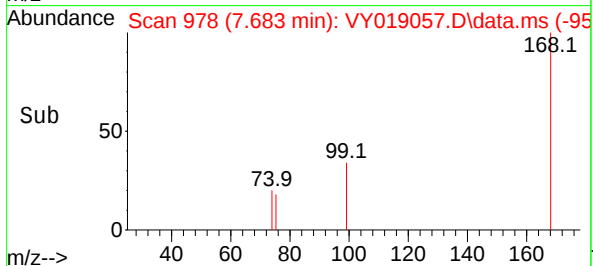
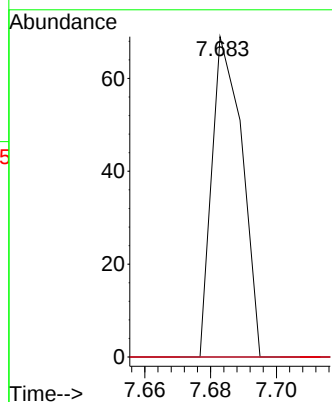


#36
1,1-Dichloropropene
Concen: 2.791 ug/l
RT: 7.683 min Scan# 91
Delta R.T. -0.146 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Instrument :
MSVOA_Y
ClientSampleId :

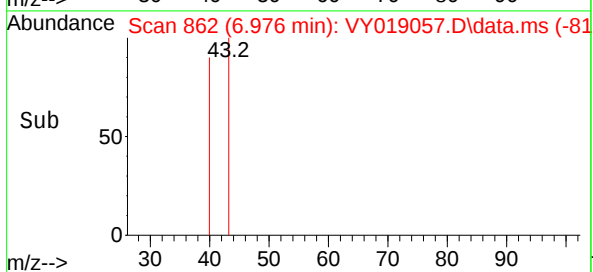
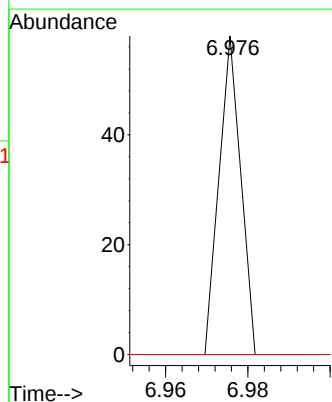
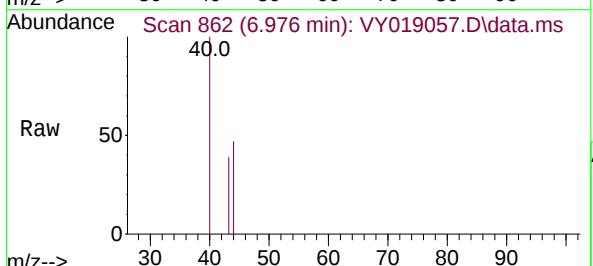


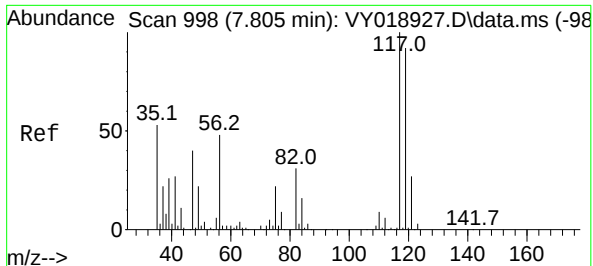
Tgt Ion: 75 Resp: 44
Ion Ratio Lower Upper
75 100
110 0.0 19.0 57.0#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 2.914 ug/l
RT: 6.976 min Scan# 862
Delta R.T. -0.000 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

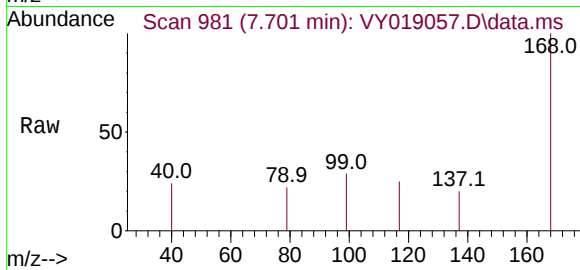
Tgt Ion: 43 Resp: 21
Ion Ratio Lower Upper
43 100
61 0.0 12.6 19.0#
70 0.0 7.8 11.8#



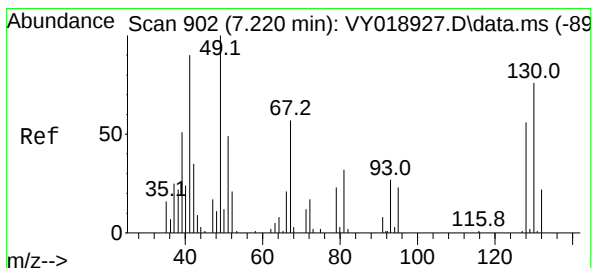
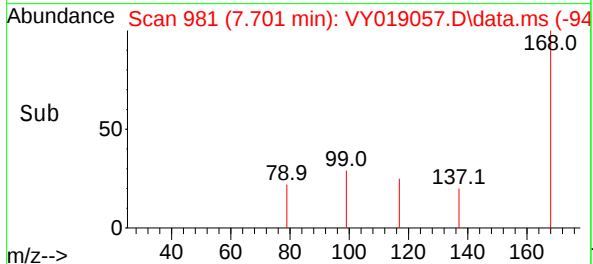
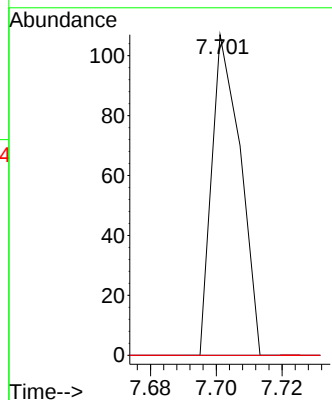


#38
Carbon Tetrachloride
Concen: 3.596 ug/l
RT: 7.701 min Scan# 901
Delta R.T. -0.104 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Instrument :
MSVOA_Y
ClientSampleId :

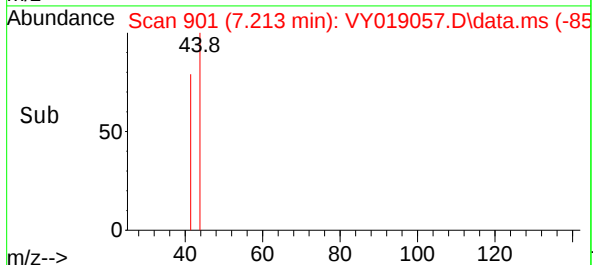
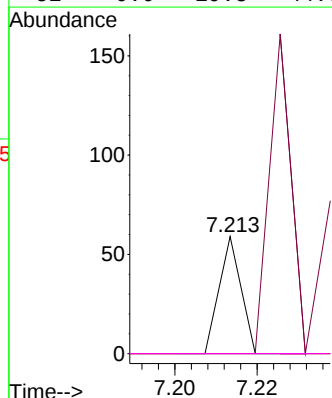
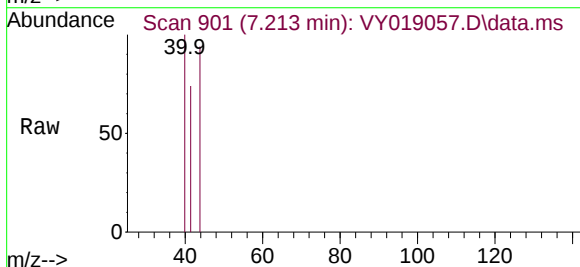


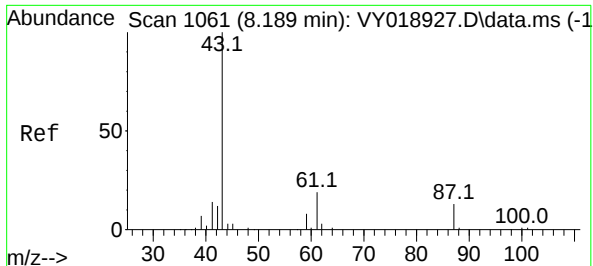
Tgt Ion:117 Resp: 65
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.0 36.0#



#41
Methacrylonitrile
Concen: 4.824 ug/l
RT: 7.213 min Scan# 901
Delta R.T. -0.006 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

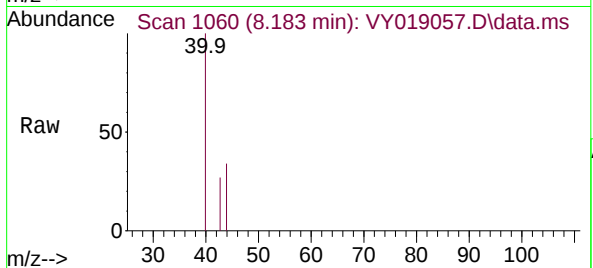
Tgt Ion: 41 Resp: 22
Ion Ratio Lower Upper
41 100
39 395.5 48.0 72.0#
67 0.0 75.1 112.7#
52 0.0 29.8 44.6#



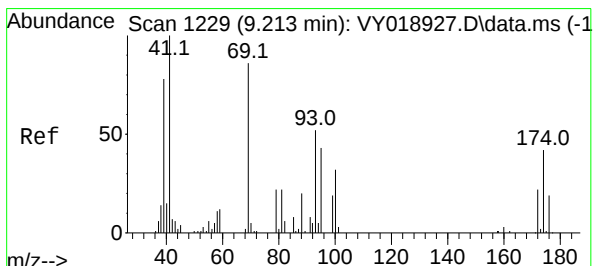
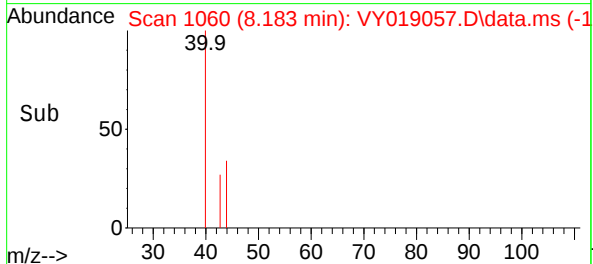
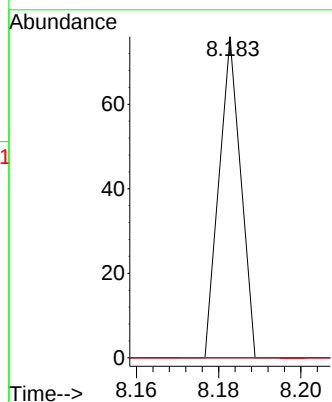


#43
Isopropyl Acetate
Concen: 1.911 ug/l
RT: 8.183 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Instrument :
MSVOA_Y
ClientSampleId :

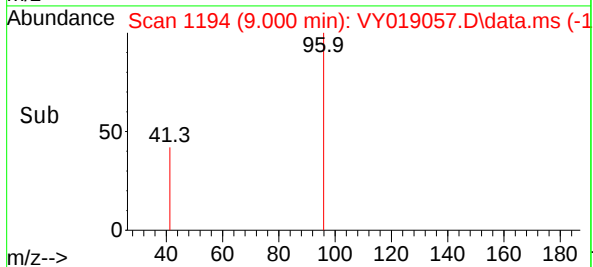
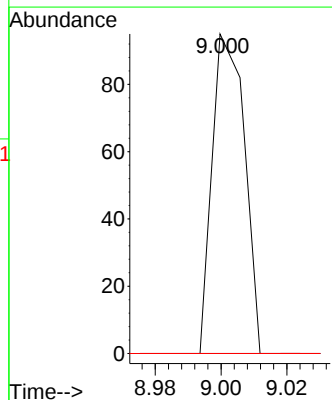
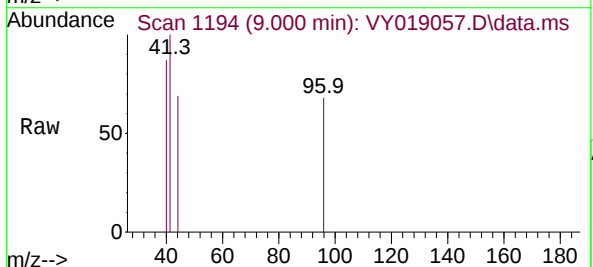


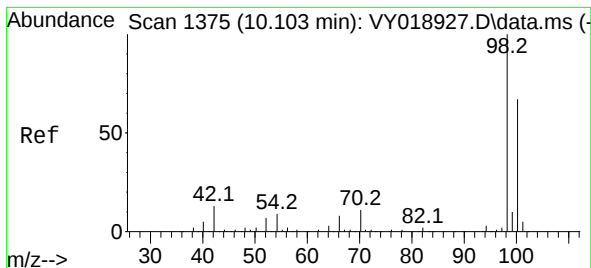
Tgt Ion: 43 Resp: 28
Ion Ratio Lower Upper
43 100
61 0.0 27.9 41.9#
87 0.0 13.1 19.7#



#48
Methyl methacrylate
Concen: 10.152 ug/l
RT: 9.000 min Scan# 1194
Delta R.T. -0.213 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Tgt Ion: 41 Resp: 65
Ion Ratio Lower Upper
41 100
69 0.0 84.1 126.1#
39 0.0 43.6 65.4#





#50

Toluene-d8

Concen: 43.356 ug/l

RT: 10.097 min Scan# 1374

Delta R.T. -0.006 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

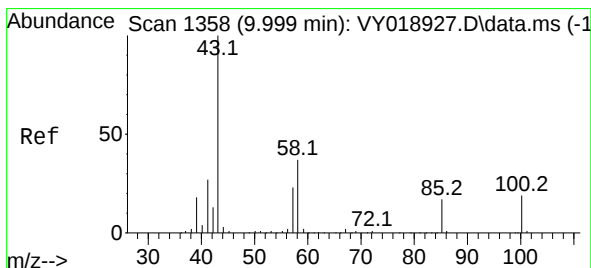
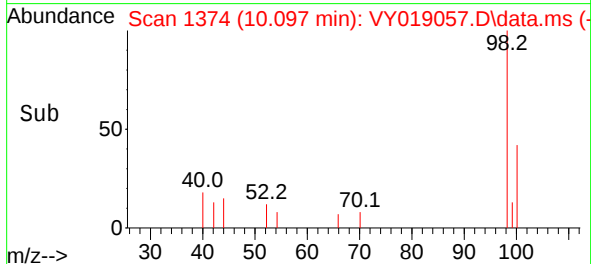
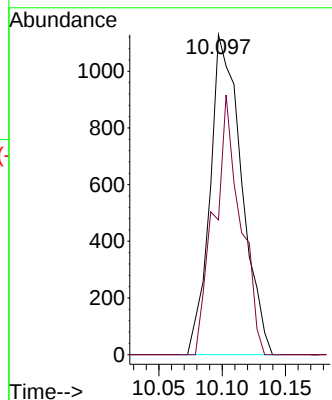
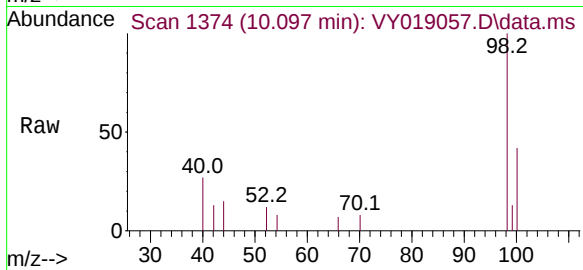
ClientSampleId :

Tgt Ion: 98 Resp: 1956

Ion Ratio Lower Upper

98 100

100 67.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 3.572 ug/l

RT: 10.054 min Scan# 1367

Delta R.T. 0.055 min

Lab File: VY019057.D

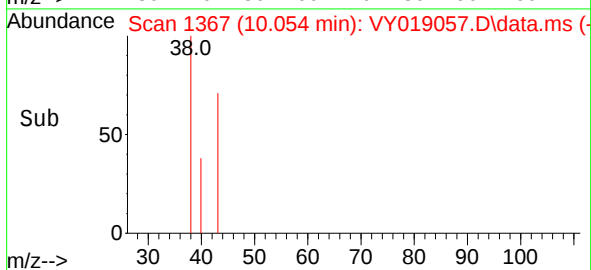
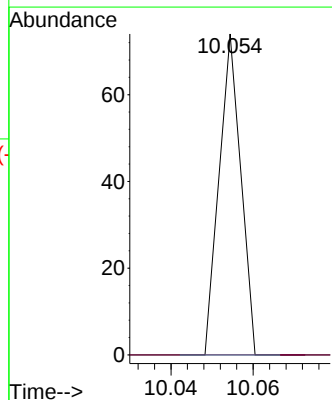
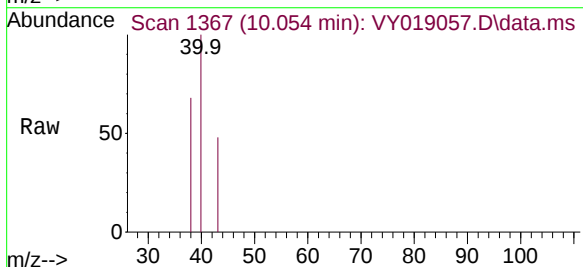
Acq: 14 Aug 2024 14:36

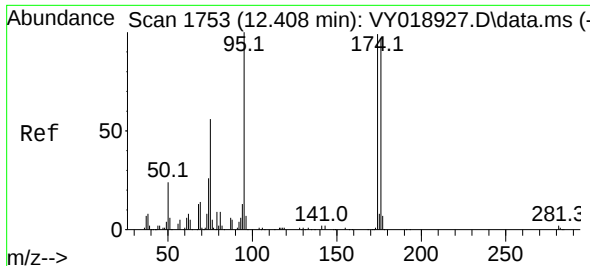
Tgt Ion: 43 Resp: 27

Ion Ratio Lower Upper

43 100

58 0.0 35.7 53.5#





#62

4-Bromofluorobenzene

Concen: 27.270 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.000 min

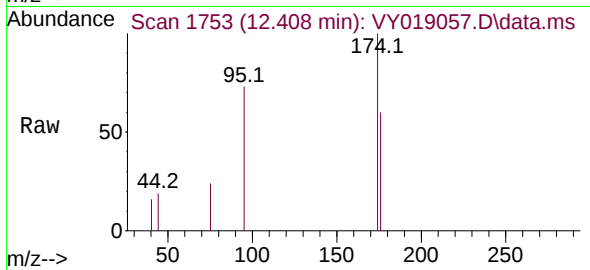
Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

ClientSampleId :



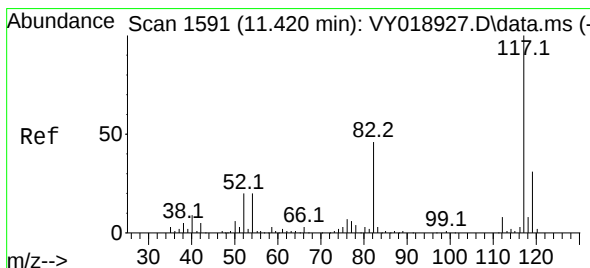
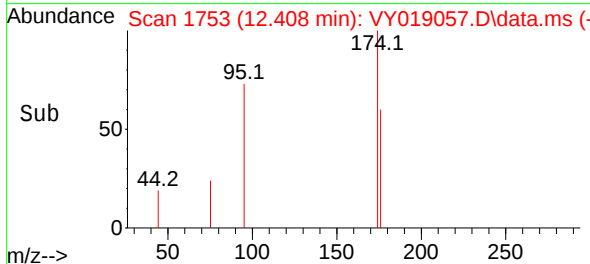
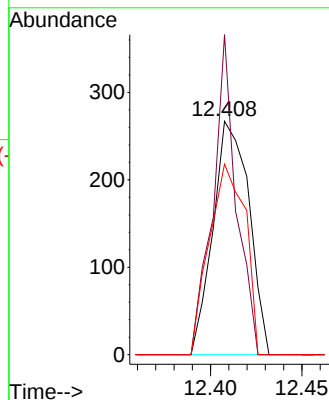
Tgt Ion: 95 Resp: 365

Ion Ratio Lower Upper

95 100

174 89.3 0.0 175.6

176 81.6 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.000 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

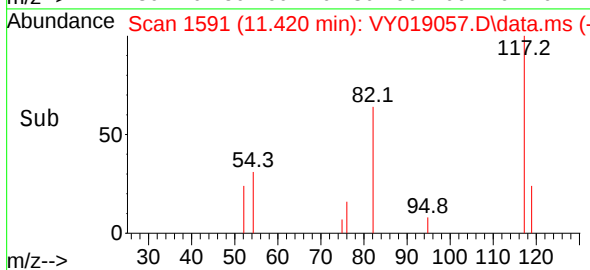
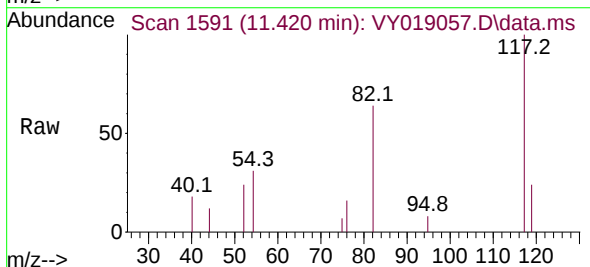
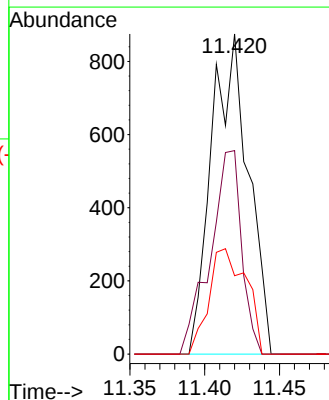
Tgt Ion: 117 Resp: 1495

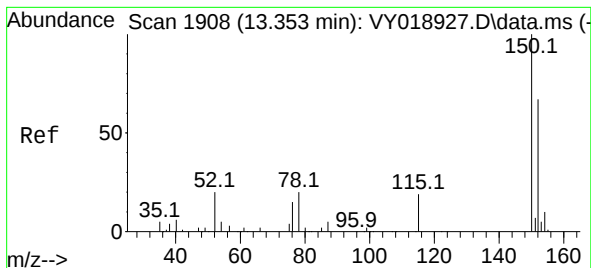
Ion Ratio Lower Upper

117 100

82 63.5 42.4 63.6

119 24.5 25.9 38.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

ClientSampleId :

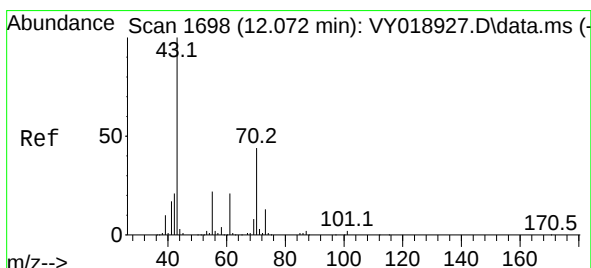
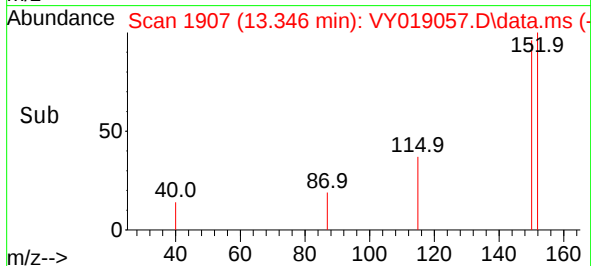
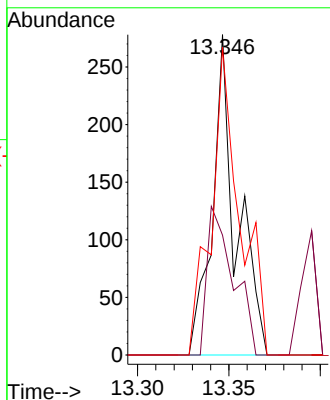
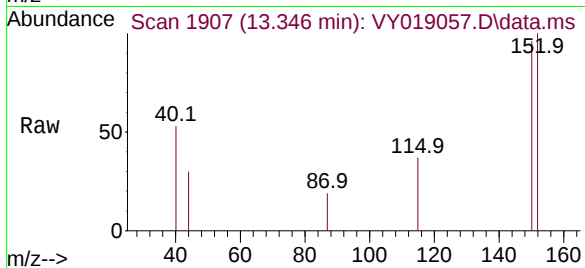
Tgt Ion:152 Resp: 252

Ion Ratio Lower Upper

152 100

115 51.2 28.2 84.7

150 115.1 0.0 345.6



#74

N-ethyl acetate

Concen: 12.319 ug/l

RT: 12.158 min Scan# 1712

Delta R.T. 0.085 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Tgt Ion: 43 Resp: 52

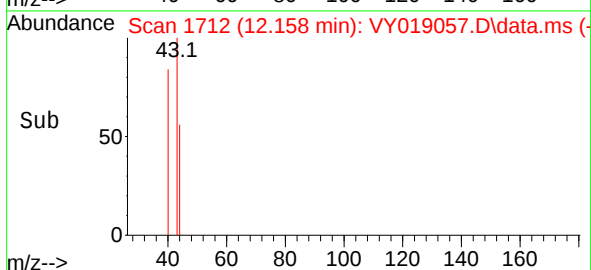
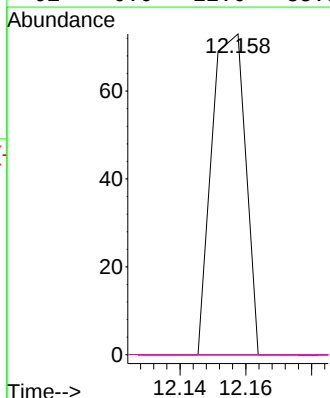
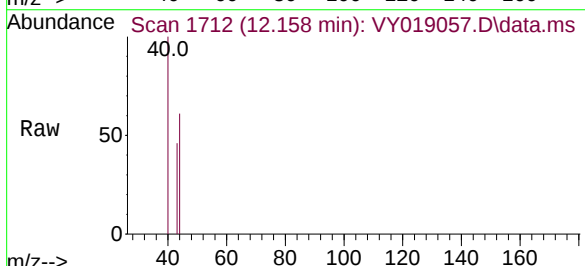
Ion Ratio Lower Upper

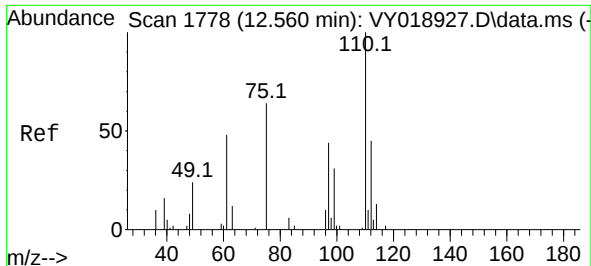
43 100

70 0.0 41.4 62.2#

55 0.0 23.3 34.9#

61 0.0 22.6 33.8#





#76

1,2,3-Trichloropropane

Concen: 46.342 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

Instrument :

MSVOA_Y

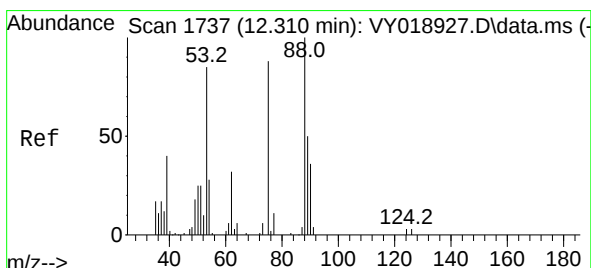
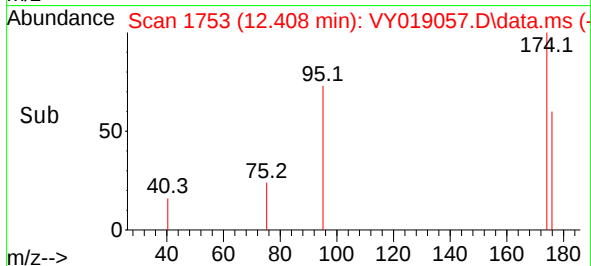
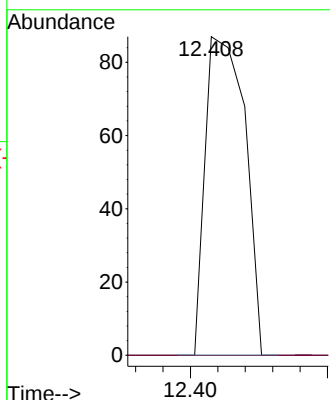
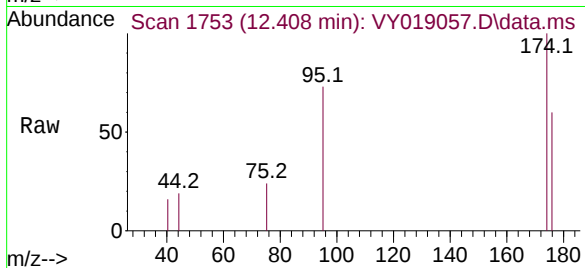
ClientSampleId :

Tgt Ion: 75 Resp: 87

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 95.491 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.098 min

Lab File: VY019057.D

Acq: 14 Aug 2024 14:36

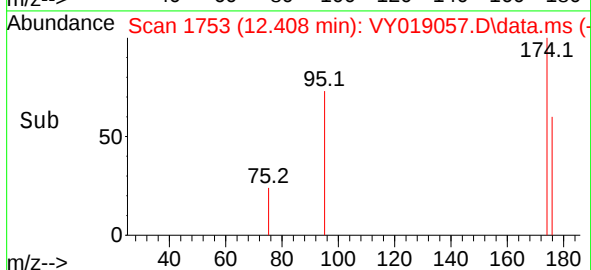
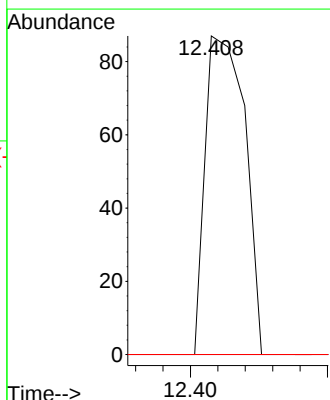
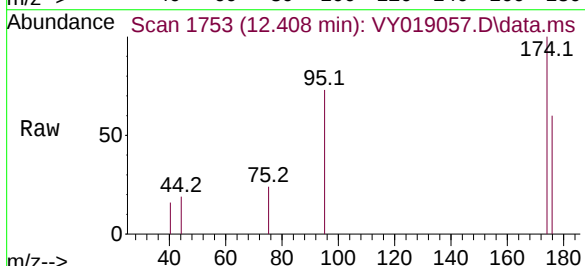
Tgt Ion: 75 Resp: 87

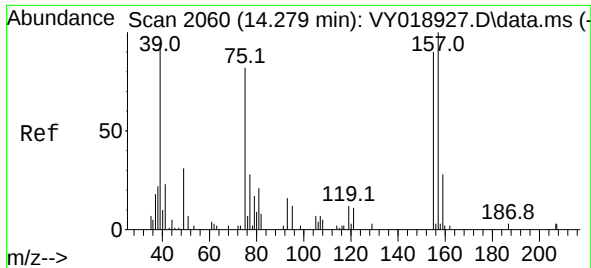
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

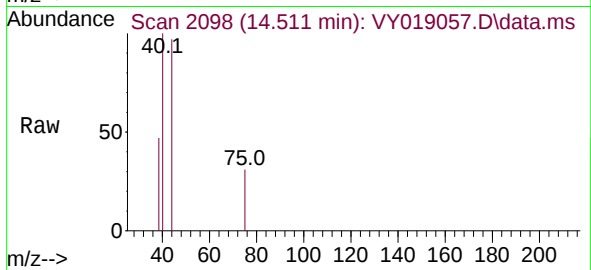
89 0.0 35.8 53.6#





#92
1,2-Dibromo-3-Chloropropane
Concen: 49.253 ug/l
RT: 14.511 min Scan# 20
Delta R.T. 0.232 min
Lab File: VY019057.D
Acq: 14 Aug 2024 14:36

Instrument :
MSVOA_Y
ClientSampleId :



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

