

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101724\
 Data File : VY019934.D
 Acq On : 17 Oct 2024 16:01
 Operator : SY/MD
 Sample : P4417-04
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 18 01:43:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

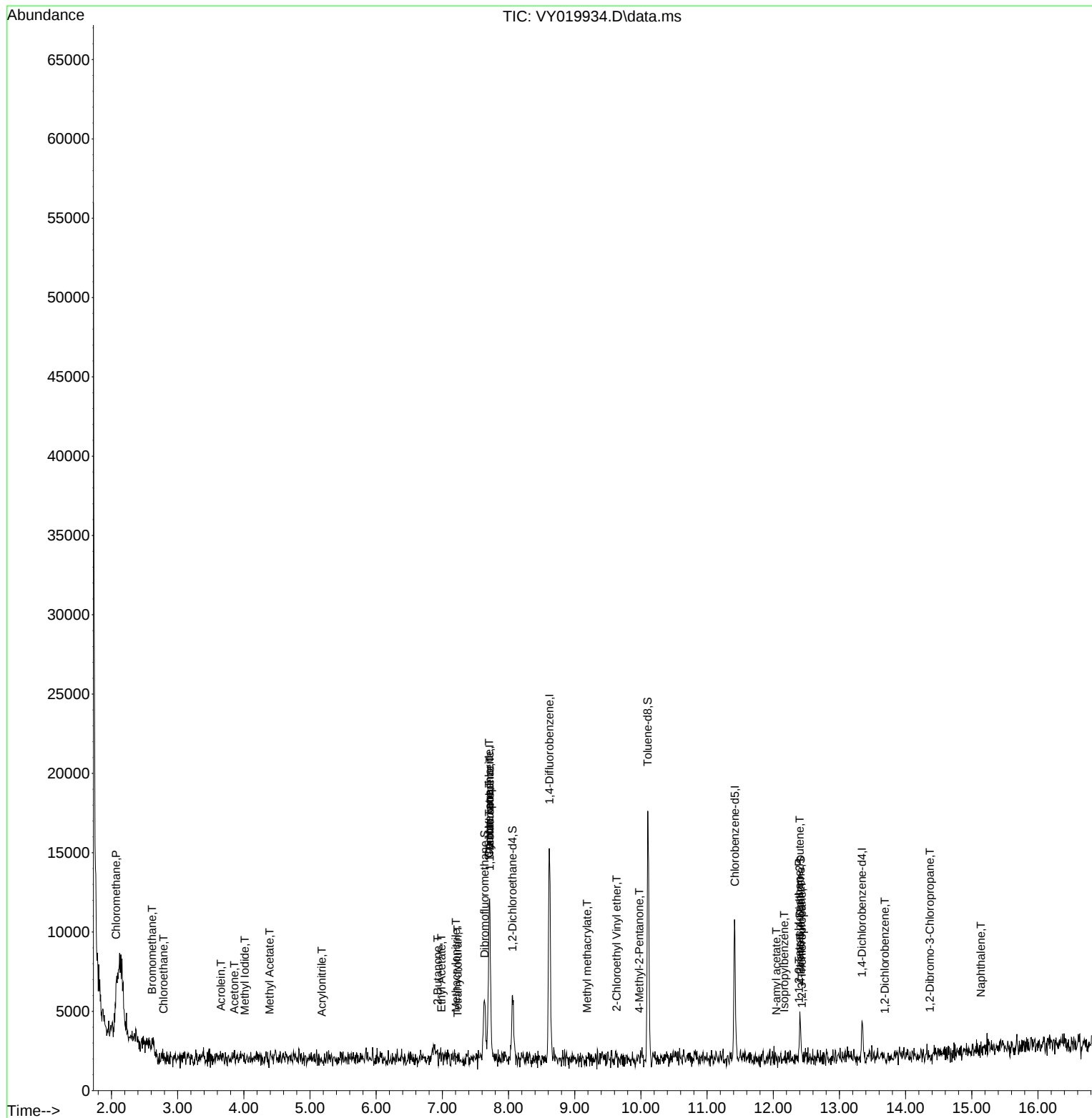
Internal Standards						
1) Pentafluorobenzene	7.713	168	6767	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	11005	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	4424	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	2790	33.485	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	66.960%
35) Dibromofluoromethane	7.640	113	2882	39.686	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	79.380%
50) Toluene-d8	10.103	98	10309	38.441	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	76.880%
62) 4-Bromofluorobenzene	12.414	95	1039	10.722	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	21.440%#
Target Compounds						
						Qvalue
3) Chloromethane	2.068	50	160	1.951	ug/l	# 87
5) Bromomethane	2.611	94	78	1.366	ug/l	# 1
6) Chloroethane	2.787	64	68	1.122	ug/l	# 42
10) Methyl Iodide	4.013	142	86	1.089	ug/l	# 73
11) Tert butyl alcohol	4.830	59	78	Below Cal	#	88
13) Acrolein	3.653	56	39	6.370	ug/l	# 15
15) Acrylonitrile	5.177	53	56	3.001	ug/l	# 18
16) Acetone	3.854	43	170	7.838	ug/l	# 36
18) Methyl Acetate	4.391	43	84	1.798	ug/l	# 46
20) Methylene Chloride	4.604	84	45	Below Cal	#	11
25) 2-Butanone	6.927	43	108	3.720	ug/l	# 41
29) Tetrahydrofuran	7.232	42	43	2.594	ug/l	# 26
31) Cyclohexane	7.707	56	144	1.034	ug/l	# 1
36) 1,1-Dichloropropene	7.720	75	751	7.178	ug/l	# 40
37) Ethyl Acetate	6.988	43	76	1.393	ug/l	# 67
38) Carbon Tetrachloride	7.707	117	935	8.336	ug/l	# 13
41) Methacrylonitrile	7.207	41	71	2.405	ug/l	# 22
48) Methyl methacrylate	9.189	41	160	3.269	ug/l	# 7
51) 4-Methyl-2-Pentanone	9.975	43	123	2.167	ug/l	91
58) 2-Chloroethyl Vinyl ether	9.634	63	56	1.470	ug/l	# 45
73) Isopropylbenzene	12.164	105	71	1.218	ug/l	# 48
74) N-amyl acetate	12.048	43	25	1.619	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.389	83	22	2.124	ug/l	# 26
76) 1,2,3-Trichloropropane	12.432	75	38	2.799	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.402	75	352	104.657	ug/l	# 16
91) 1,2-Dichlorobenzene	13.688	146	22	1.002	ug/l	# 25
92) 1,2-Dibromo-3-Chloropr...	14.365	75	19	11.494	ug/l	# 1
95) Naphthalene	15.139	128	32	1.379	ug/l	# 69

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

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QLast Update : Wed Oct 16 05:44:48 2024
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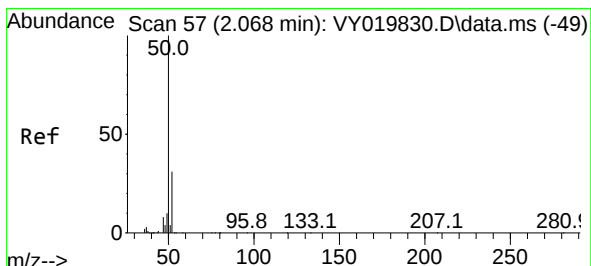
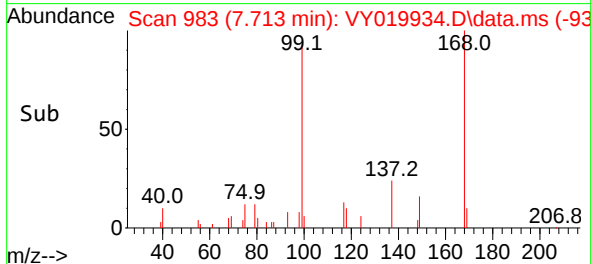
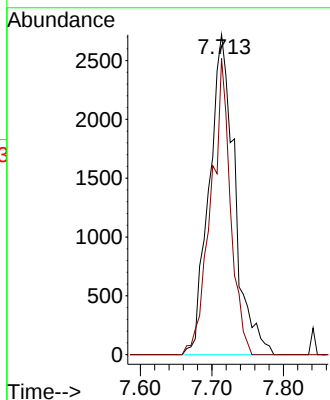
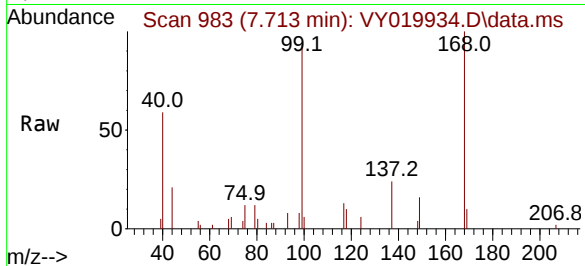




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

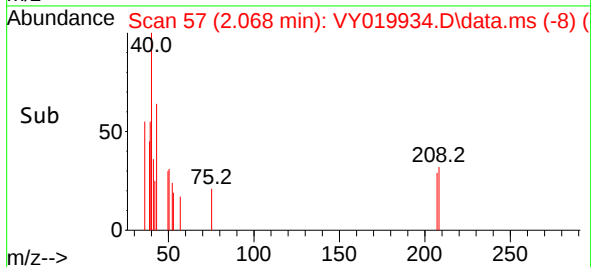
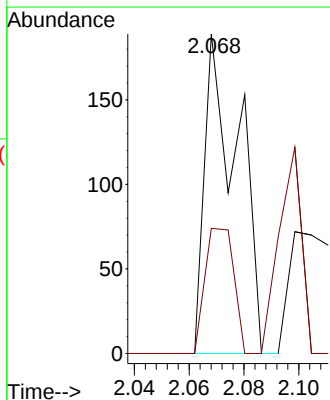
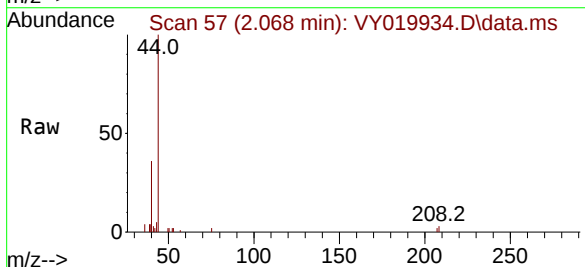
Instrument :
MSVOA_Y
ClientSampleId :

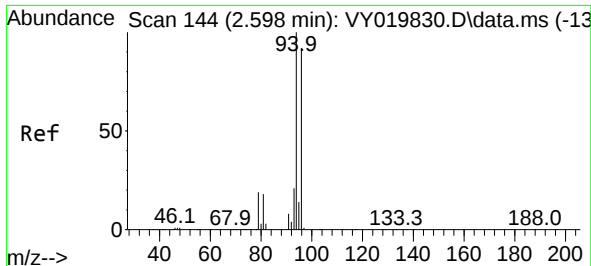
Tgt Ion:168 Resp: 6767
Ion Ratio Lower Upper
168 100
99 92.6 39.1 58.7#



#3
Chloromethane
Concen: 1.951 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion: 50 Resp: 160
Ion Ratio Lower Upper
50 100
52 39.2 25.6 38.4#

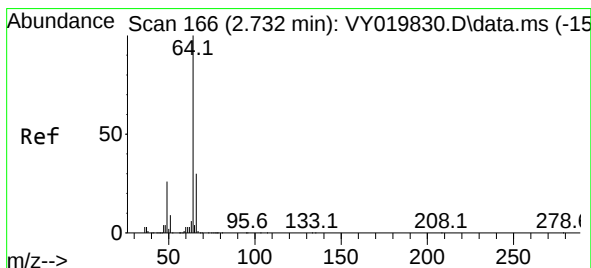
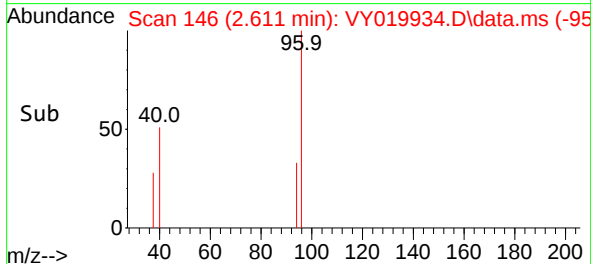
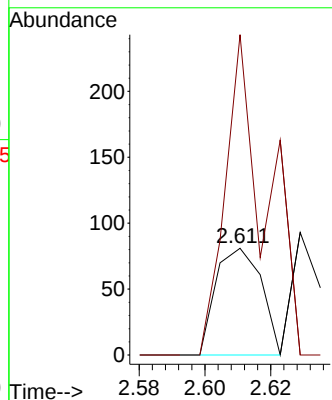
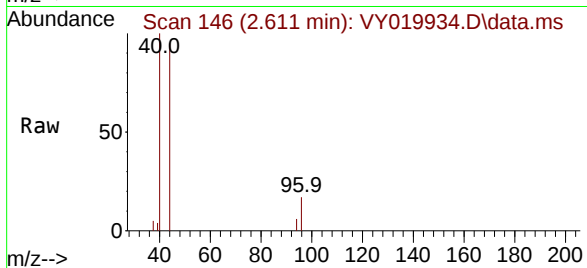




#5
Bromomethane
Concen: 1.366 ug/l
RT: 2.611 min Scan# 144
Delta R.T. 0.013 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

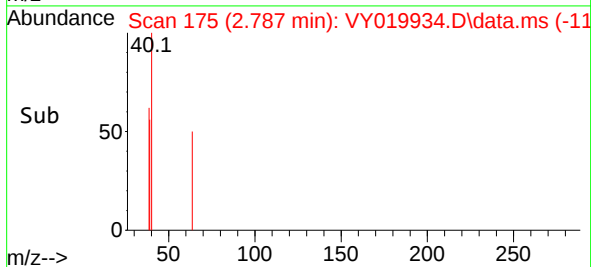
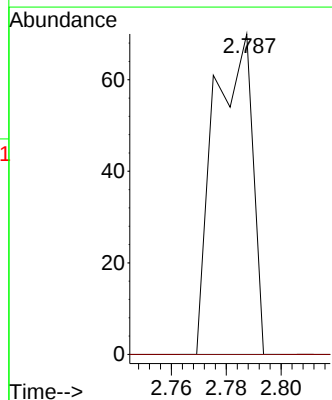
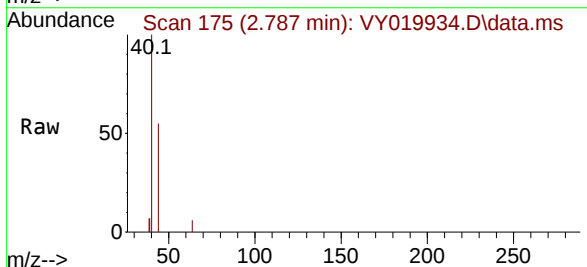
Instrument :
MSVOA_Y
ClientSampleId :

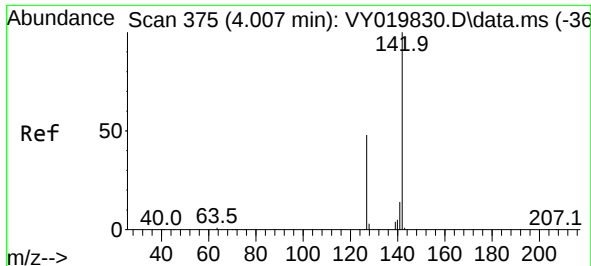
Tgt Ion: 94 Resp: 78
Ion Ratio Lower Upper
94 100
96 300.0 74.1 111.1#



#6
Chloroethane
Concen: 1.122 ug/l
RT: 2.787 min Scan# 175
Delta R.T. 0.049 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

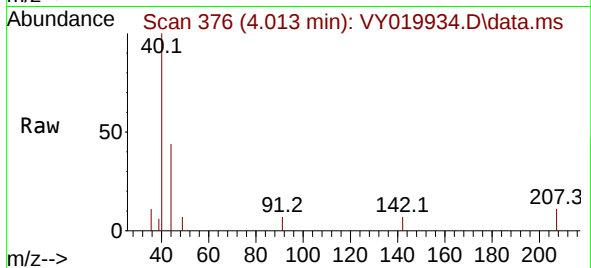
Tgt Ion: 64 Resp: 68
Ion Ratio Lower Upper
64 100
66 0.0 26.1 39.1#



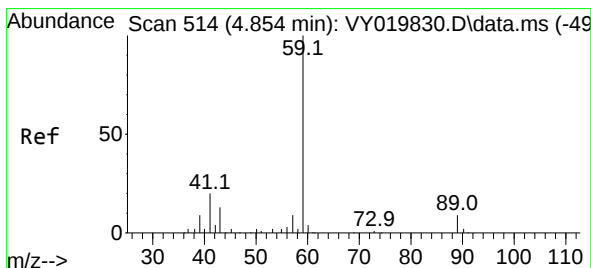
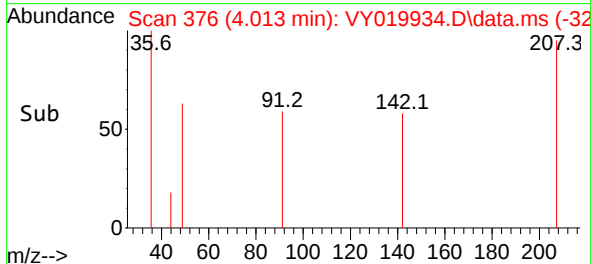
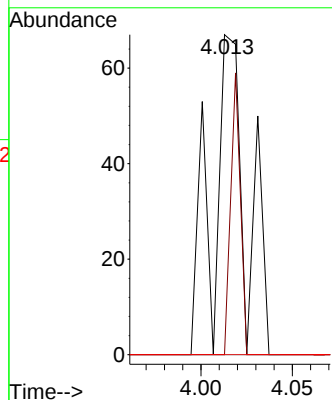


#10
Methyl Iodide
Concen: 1.089 ug/l
RT: 4.013 min Scan# 31
Delta R.T. 0.007 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

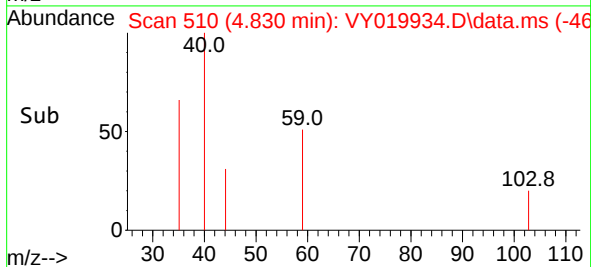
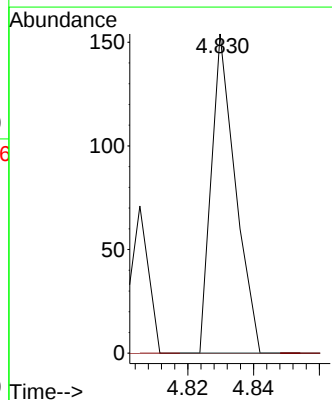
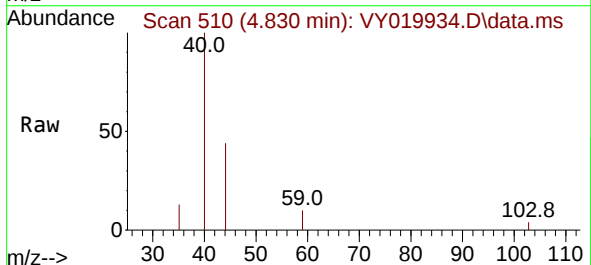


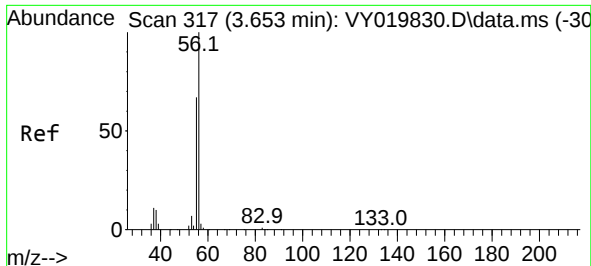
Tgt Ion:142 Resp: 86
Ion Ratio Lower Upper
142 100
127 25.6 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.830 min Scan# 510
Delta R.T. -0.030 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion: 59 Resp: 78
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#





#13

Acrolein

Concen: 6.370 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

Instrument :

MSVOA_Y

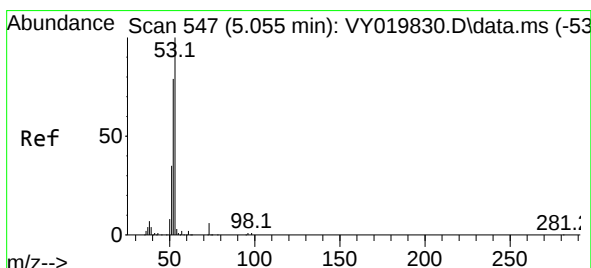
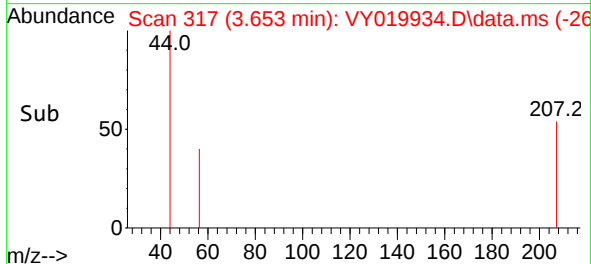
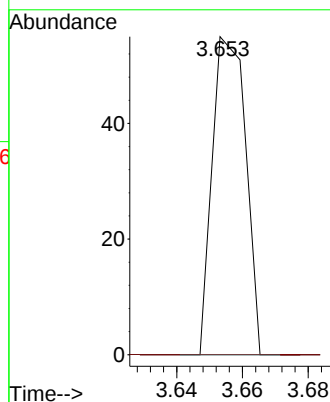
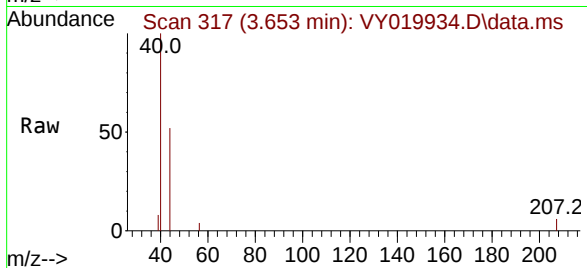
ClientSampleId :

Tgt Ion: 56 Resp: 39

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#15

Acrylonitrile

Concen: 3.001 ug/l

RT: 5.177 min Scan# 567

Delta R.T. 0.122 min

Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

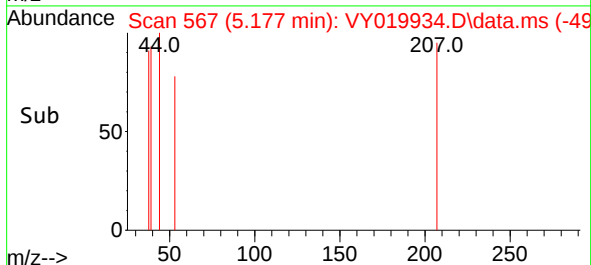
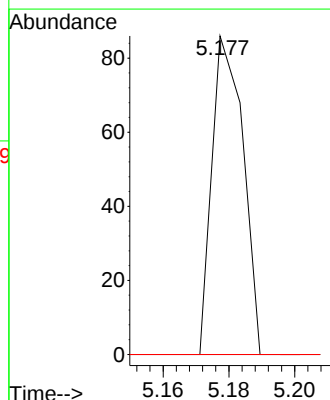
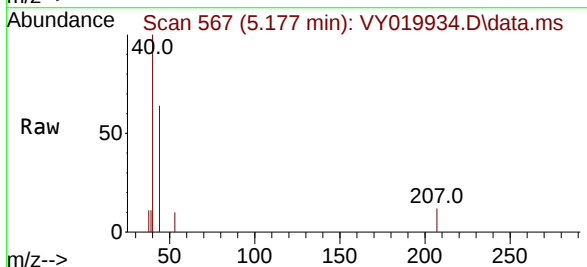
Tgt Ion: 53 Resp: 56

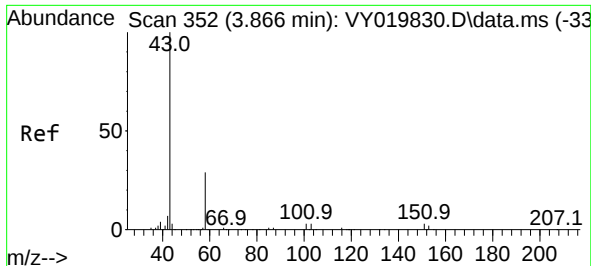
Ion Ratio Lower Upper

53 100

52 0.0 64.7 97.1#

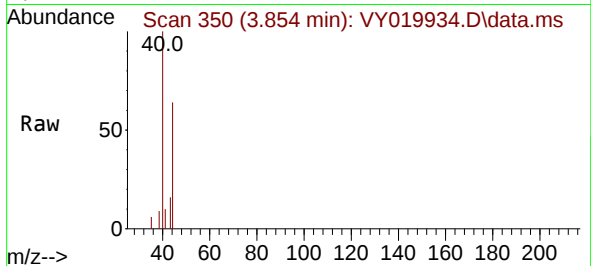
51 0.0 28.4 42.6#



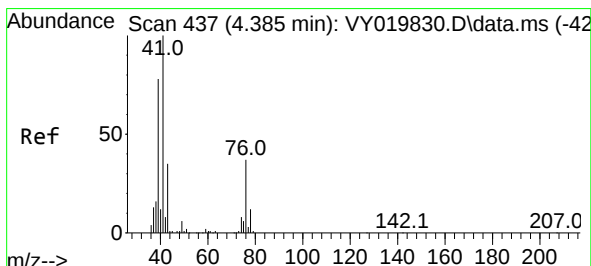
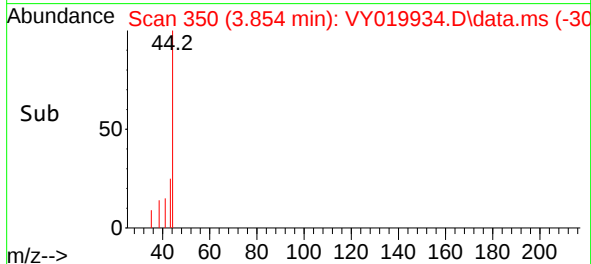
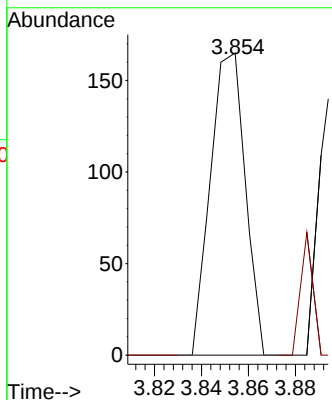


#16
Acetone
Concen: 7.838 ug/l
RT: 3.854 min Scan# 316
Delta R.T. -0.018 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

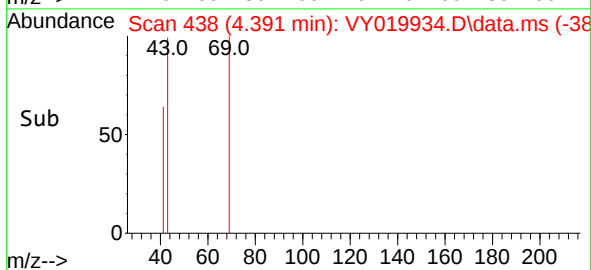
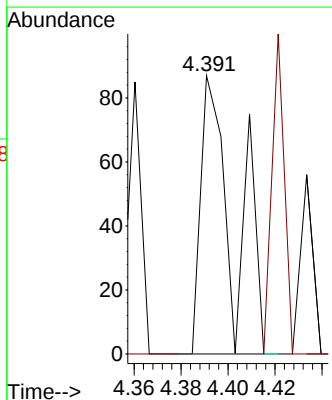
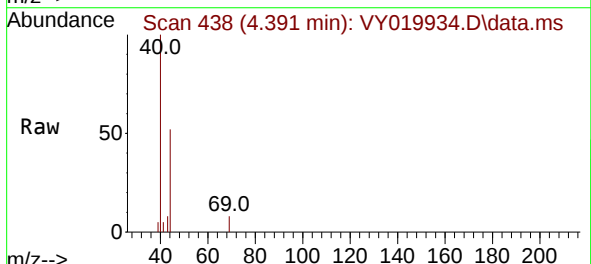


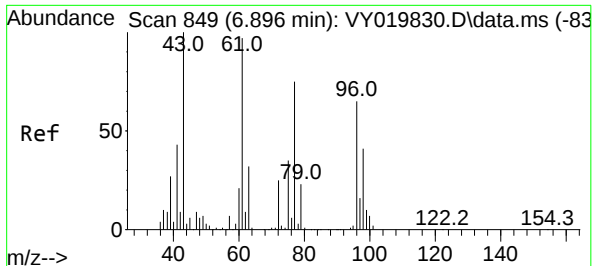
Tgt Ion: 43 Resp: 170
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#18
Methyl Acetate
Concen: 1.798 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.007 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion: 43 Resp: 84
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#

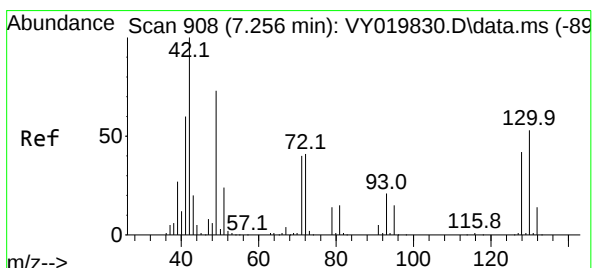
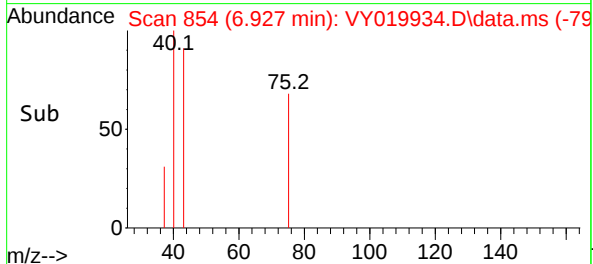
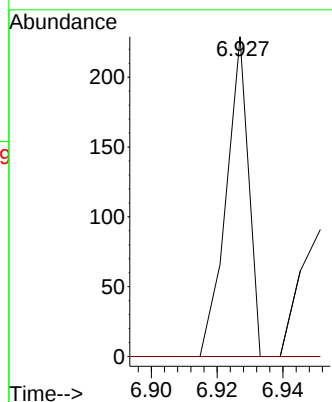
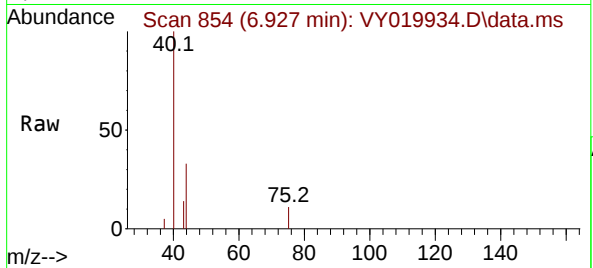




#25
2-Butanone
Concen: 3.720 ug/l
RT: 6.927 min Scan# 81
Delta R.T. 0.037 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

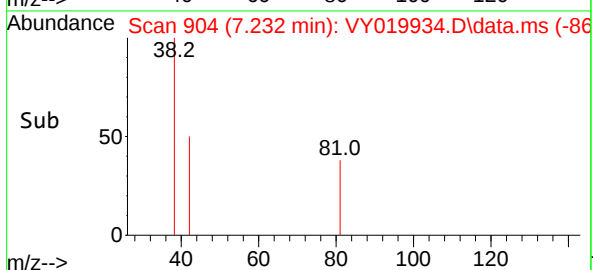
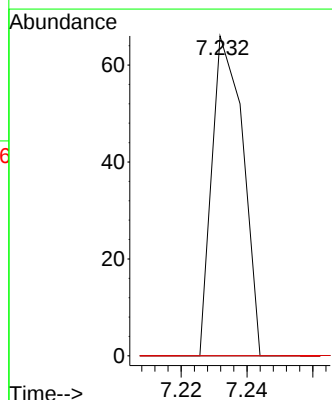
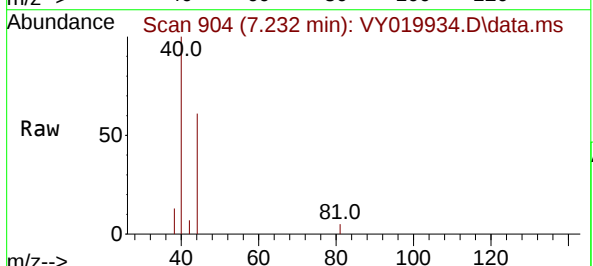
Instrument :
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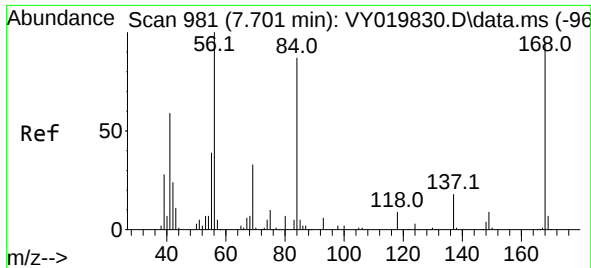
Tgt Ion: 43 Resp: 108
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#



#29
Tetrahydrofuran
Concen: 2.594 ug/l
RT: 7.232 min Scan# 904
Delta R.T. -0.030 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

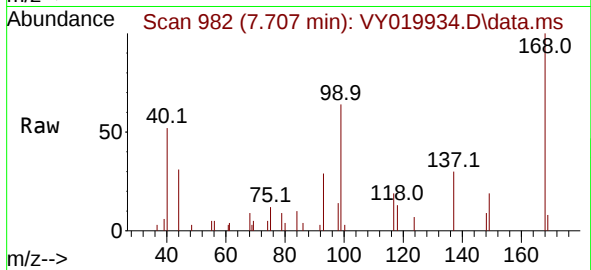
Tgt Ion: 42 Resp: 43
Ion Ratio Lower Upper
42 100
72 0.0 43.0 64.4#
71 0.0 40.8 61.2#



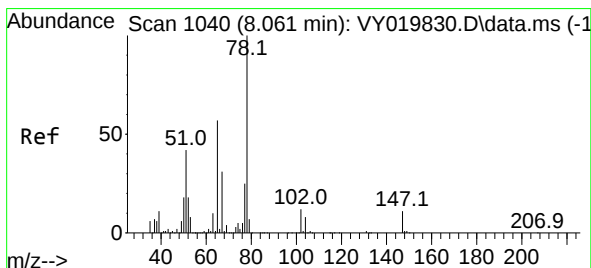
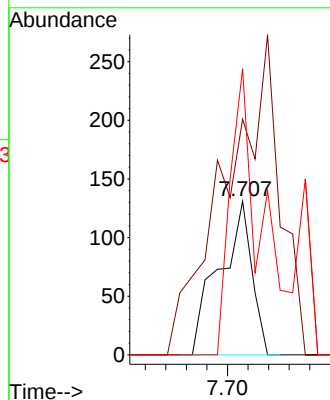
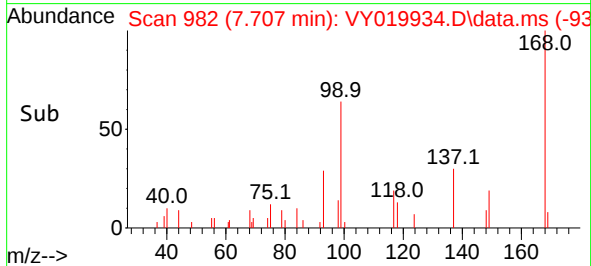


#31
Cyclohexane
Concen: 1.034 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.007 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

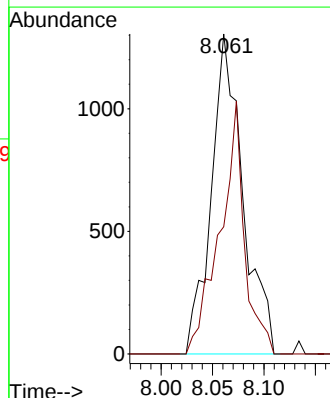
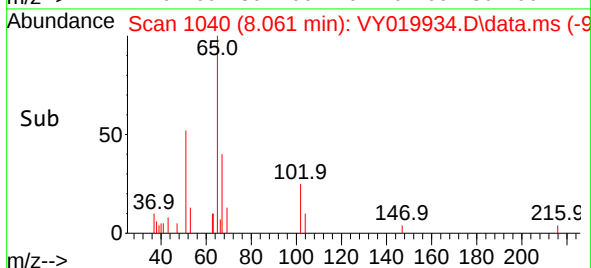
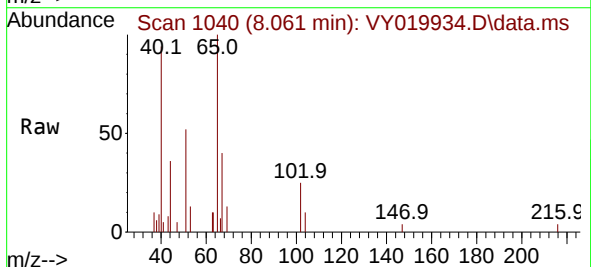


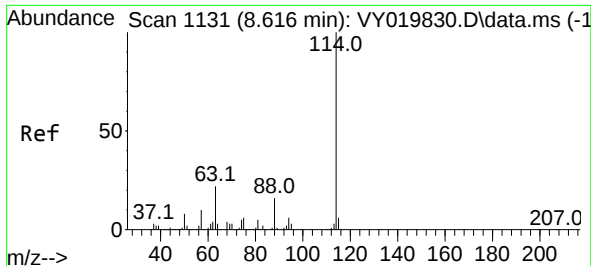
Tgt Ion: 56 Resp: 144
Ion Ratio Lower Upper
56 100
69 113.0 28.7 43.1#
84 186.3 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 33.485 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

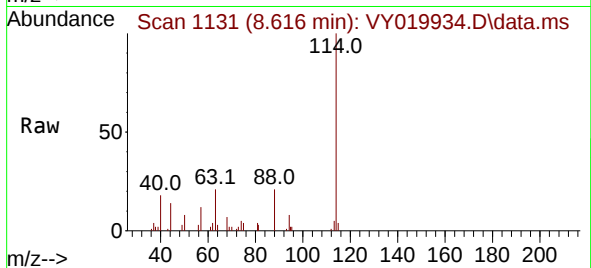
Tgt Ion: 65 Resp: 2790
Ion Ratio Lower Upper
65 100
67 61.2 0.0 109.6



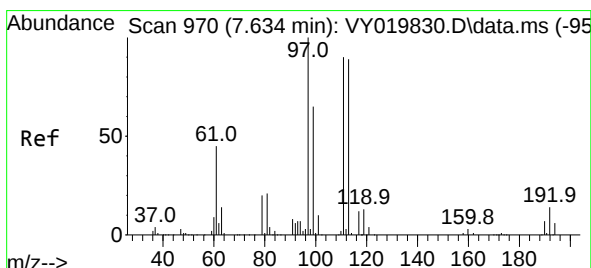
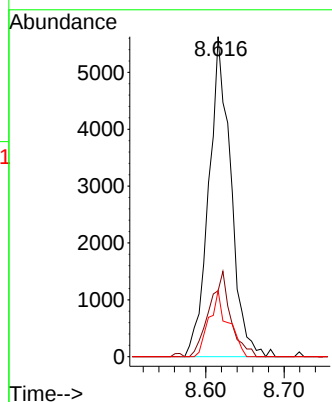
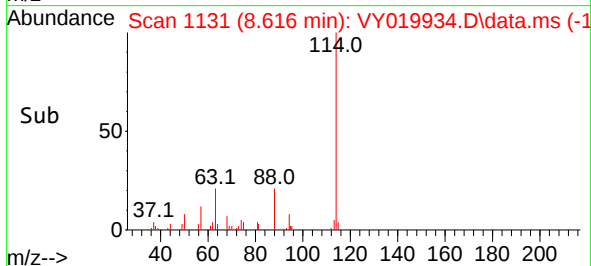


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

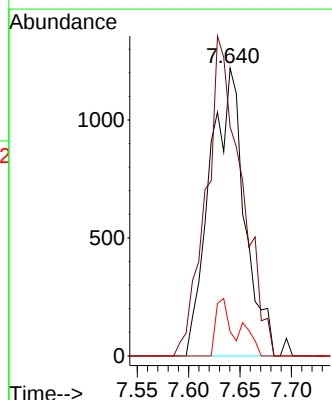
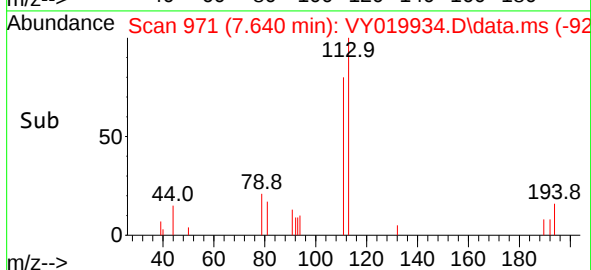
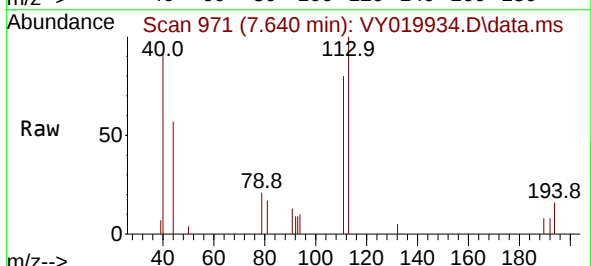


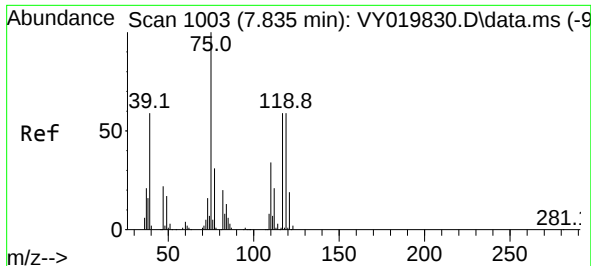
Tgt Ion:114 Resp: 11005
Ion Ratio Lower Upper
114 100
63 20.6 0.0 35.0
88 20.6 0.0 27.2



#35
Dibromofluoromethane
Concen: 39.686 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.007 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion:113 Resp: 2882
Ion Ratio Lower Upper
113 100
111 111.9 82.2 123.4
192 8.0 15.9 23.9#





#36

1,1-Dichloropropene

Concen: 7.178 ug/l

RT: 7.720 min Scan# 91

Delta R.T. -0.115 min

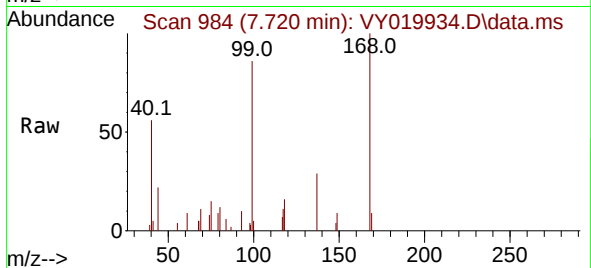
Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :



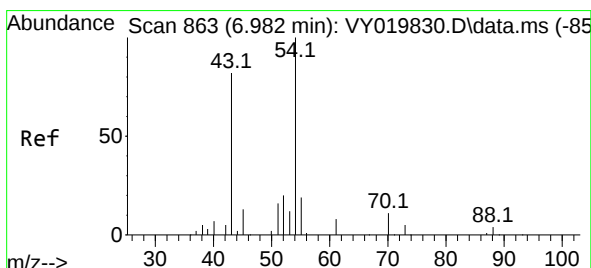
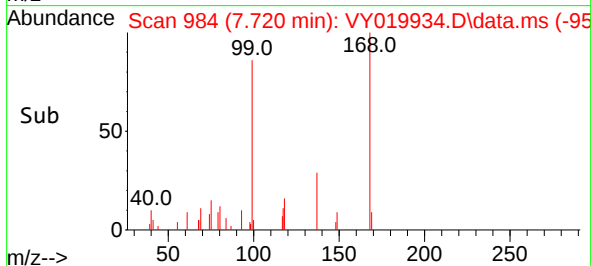
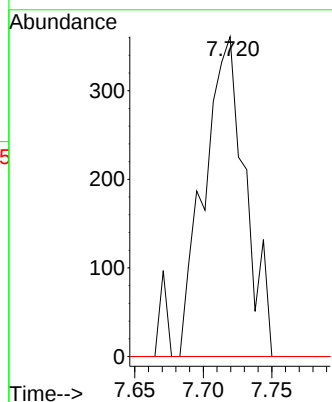
Tgt Ion: 75 Resp: 751

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 1.393 ug/l

RT: 6.988 min Scan# 864

Delta R.T. 0.007 min

Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

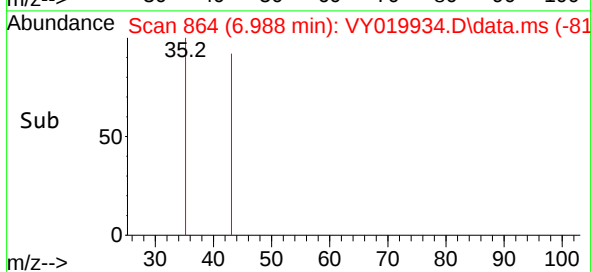
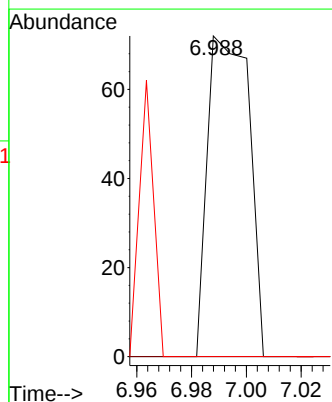
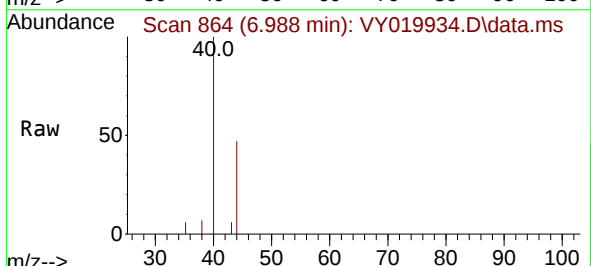
Tgt Ion: 43 Resp: 76

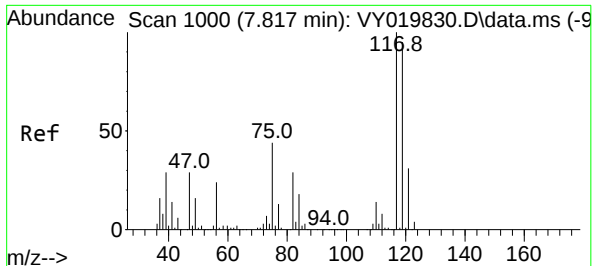
Ion Ratio Lower Upper

43 100

61 0.0 12.6 19.0#

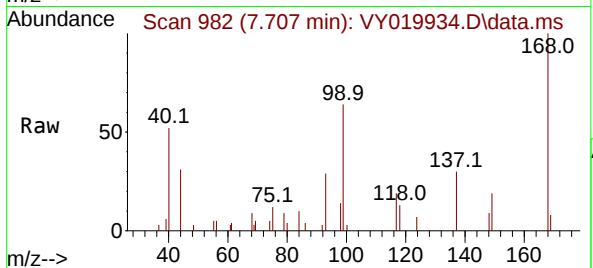
70 0.0 7.8 11.8#



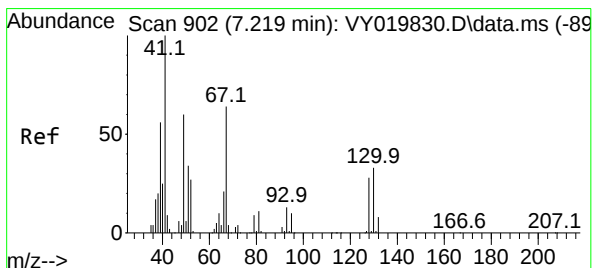
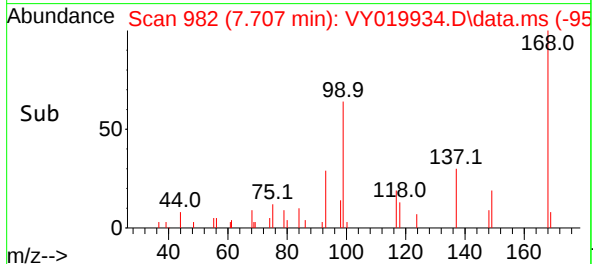
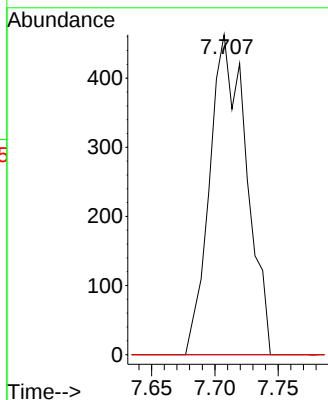


#38
Carbon Tetrachloride
Concen: 8.336 ug/l
RT: 7.707 min Scan# 911
Delta R.T. -0.109 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

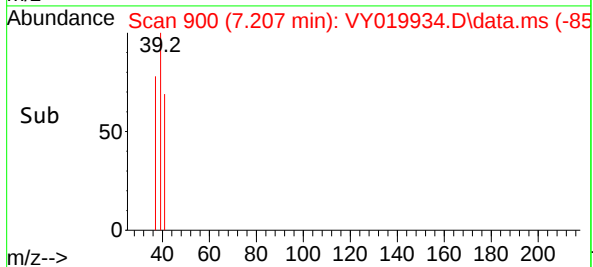
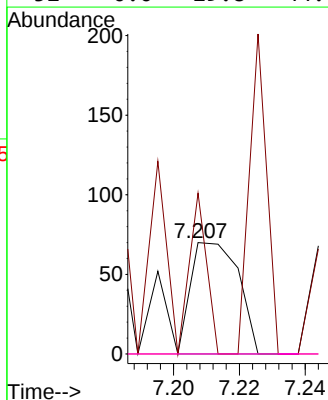
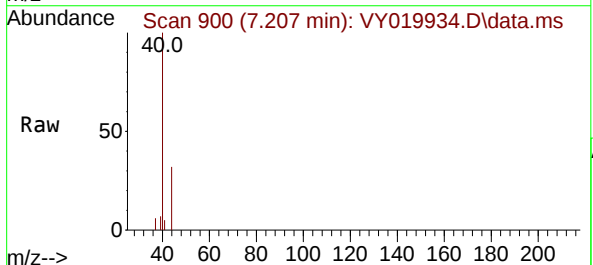


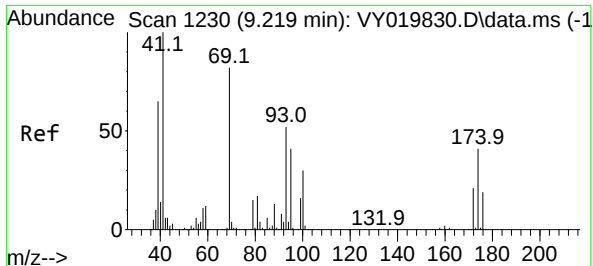
Tgt Ion:117 Resp: 935
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.0 36.0#



#41
Methacrylonitrile
Concen: 2.405 ug/l
RT: 7.207 min Scan# 900
Delta R.T. -0.012 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion: 41 Resp: 71
Ion Ratio Lower Upper
41 100
39 102.8 48.0 72.0#
67 0.0 75.1 112.7#
52 0.0 29.8 44.6#





#48

Methyl methacrylate

Concen: 3.269 ug/l

RT: 9.189 min Scan# 11

Delta R.T. -0.030 min

Lab File: VY019934.D

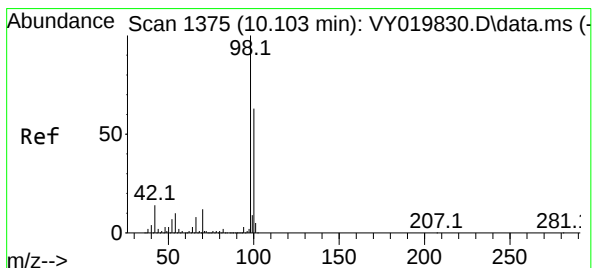
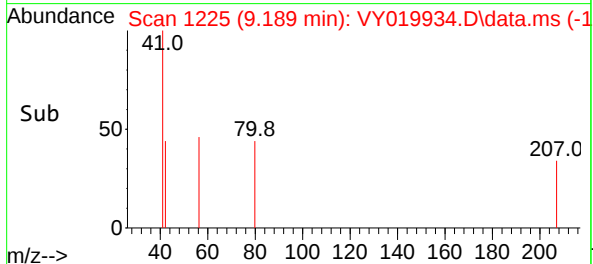
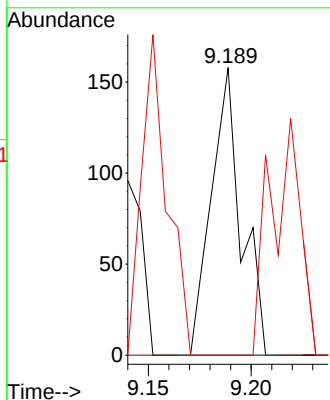
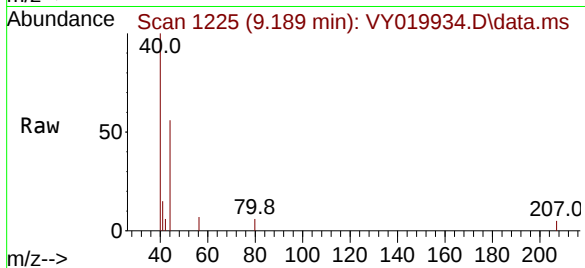
Acq: 17 Oct 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	41	Resp:	160
Ion	Ratio	Lower	Upper
41	100		
69	0.0	84.1	126.1#
39	0.0	43.6	65.4#



#50

Toluene-d8

Concen: 38.441 ug/l

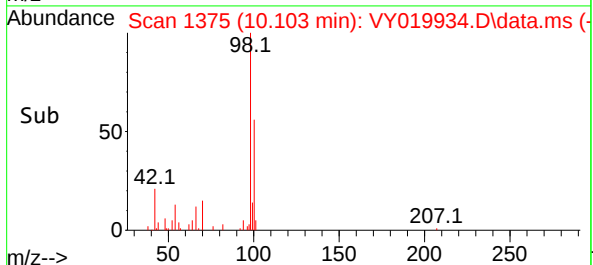
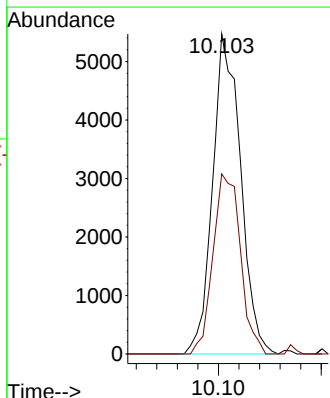
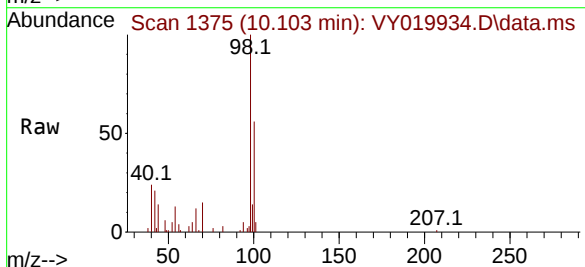
RT: 10.103 min Scan# 1375

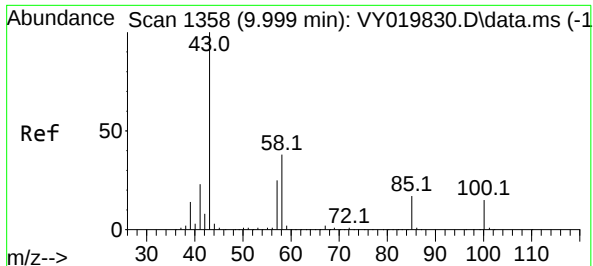
Delta R.T. -0.006 min

Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

Tgt Ion:	98	Resp:	10309
Ion	Ratio	Lower	Upper
98	100		
100	55.2	52.0	78.0

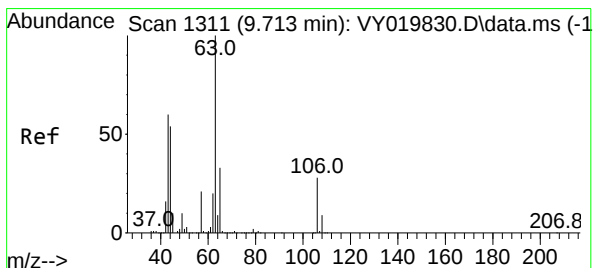
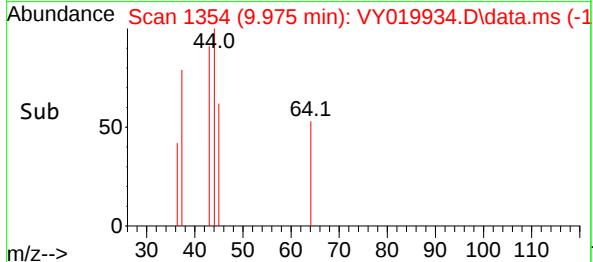
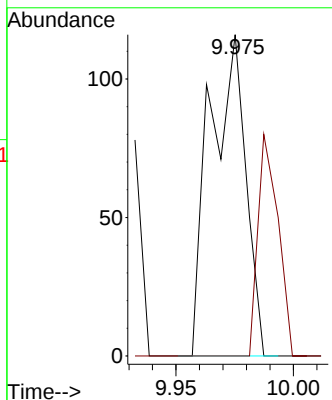
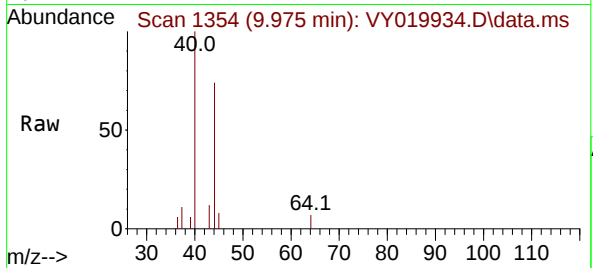




#51
4-Methyl-2-Pentanone
Concen: 2.167 ug/l
RT: 9.975 min Scan# 11
Delta R.T. -0.024 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

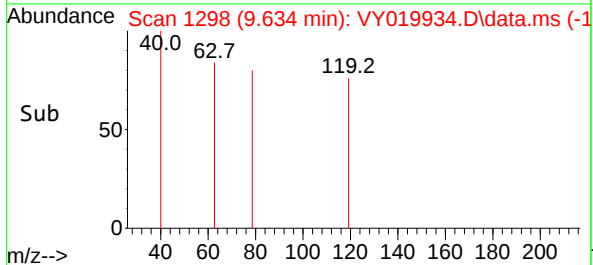
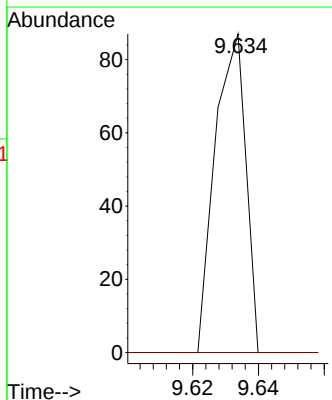
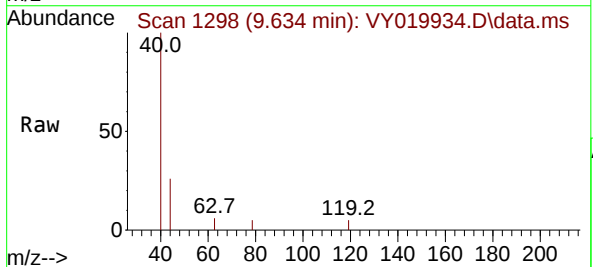
Instrument :
MSVOA_Y
ClientSampleId :

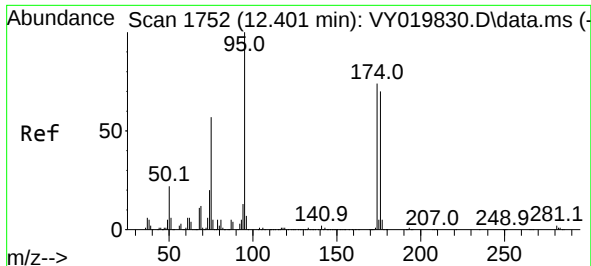
Tgt Ion: 43 Resp: 123
Ion Ratio Lower Upper
43 100
58 39.0 35.7 53.5



#58
2-Chloroethyl Vinyl ether
Concen: 1.470 ug/l
RT: 9.634 min Scan# 1298
Delta R.T. -0.079 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
106 0.0 23.7 35.5#





#62

4-Bromofluorobenzene

Concen: 10.722 ug/l

RT: 12.414 min Scan# 1

Delta R.T. 0.007 min

Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

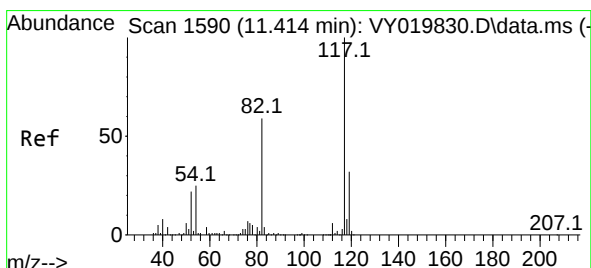
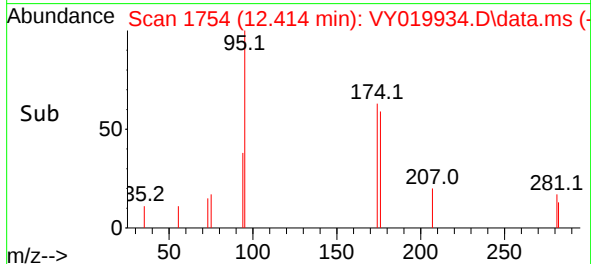
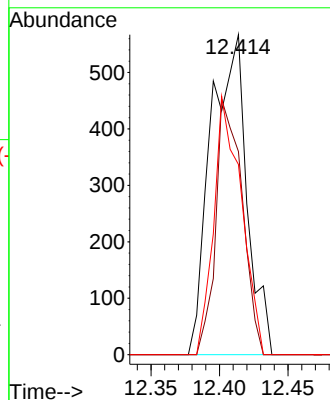
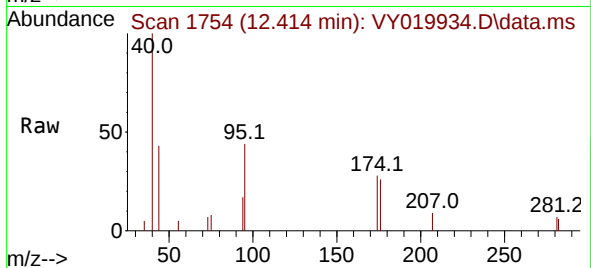
Tgt Ion: 95 Resp: 1039

Ion Ratio Lower Upper

95 100

174 58.3 0.0 175.6

176 61.5 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: VY019934.D

Acq: 17 Oct 2024 16:01

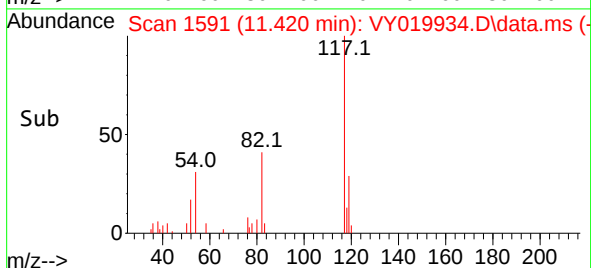
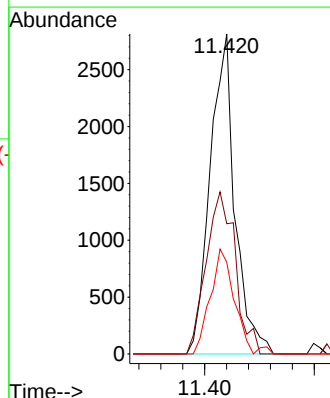
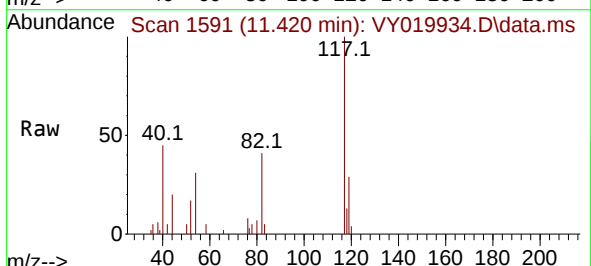
Tgt Ion: 117 Resp: 4424

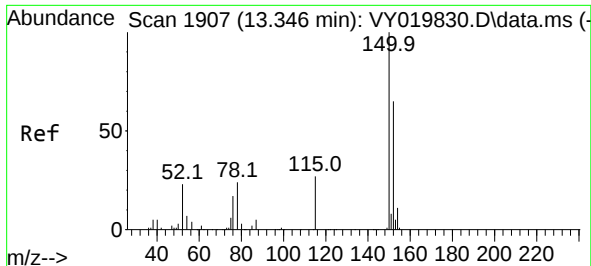
Ion Ratio Lower Upper

117 100

82 40.7 42.4 63.6#

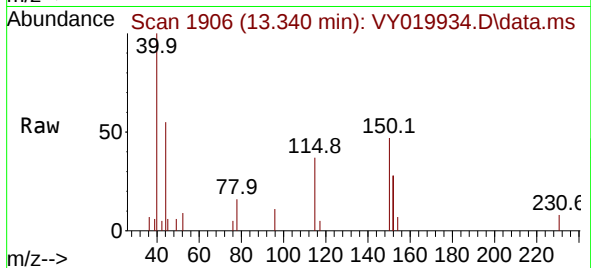
119 28.6 25.9 38.9



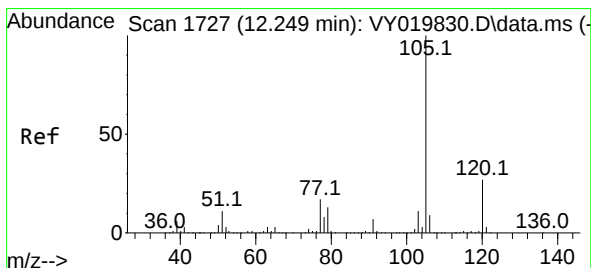
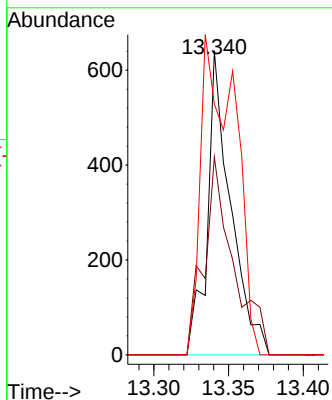
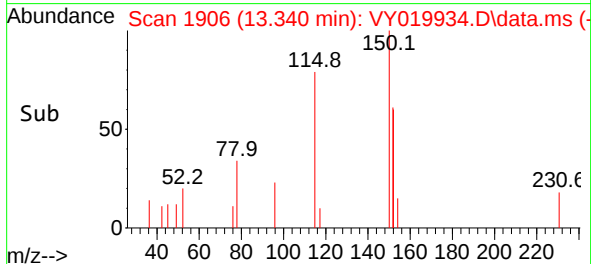


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

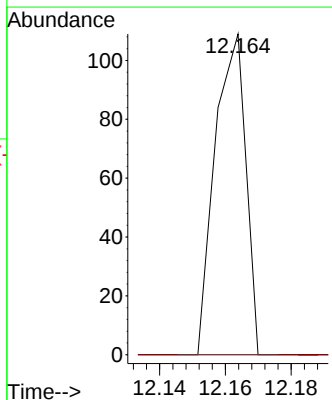
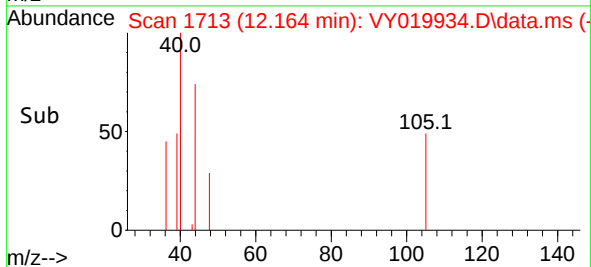
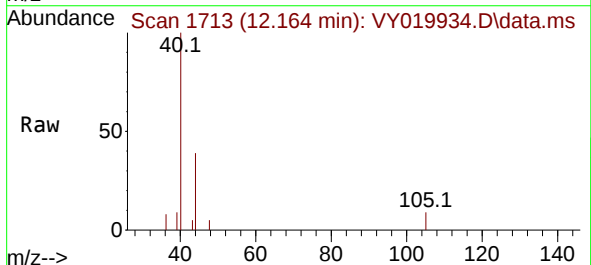


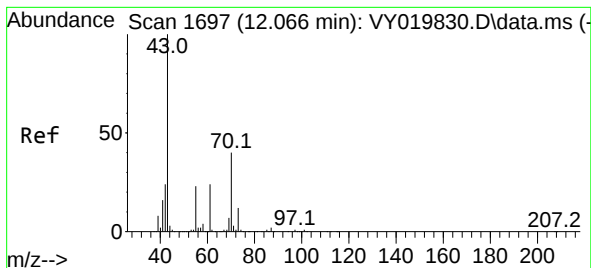
Tgt Ion:152 Resp: 693
Ion Ratio Lower Upper
152 100
115 81.8 28.2 84.7
150 154.7 0.0 345.6



#73
Isopropylbenzene
Concen: 1.218 ug/l
RT: 12.164 min Scan# 1713
Delta R.T. -0.091 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Tgt Ion:105 Resp: 71
Ion Ratio Lower Upper
105 100
120 0.0 13.4 40.1#





#74

N-amy1 acetate

Concen: 1.619 ug/l

RT: 12.048 min Scan# 1

Delta R.T. -0.024 min

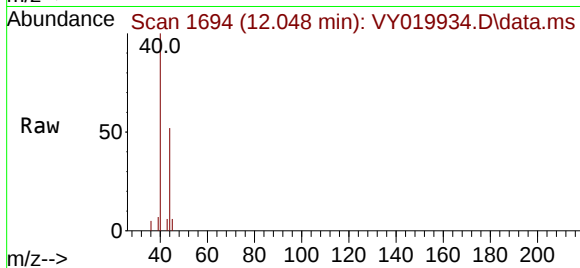
Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 43 Resp: 25

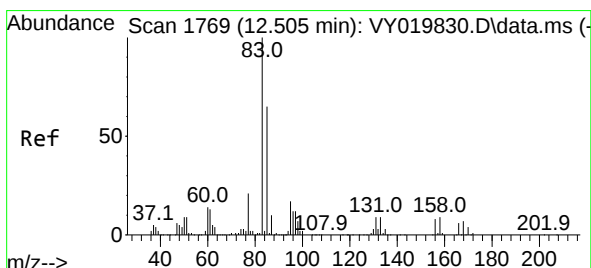
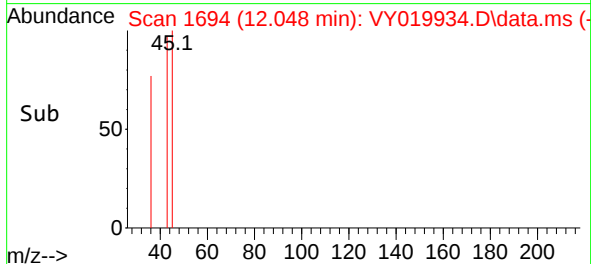
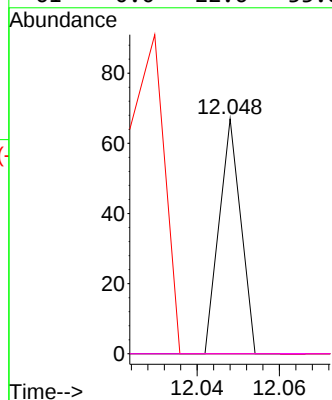
Ion Ratio Lower Upper

43 100

70 0.0 41.4 62.2#

55 228.0 23.3 34.9#

61 0.0 22.6 33.8#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.124 ug/l

RT: 12.389 min Scan# 1750

Delta R.T. -0.121 min

Lab File: VY019934.D

Acq: 17 Oct 2024 16:01

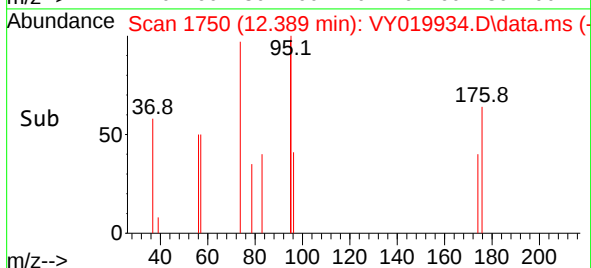
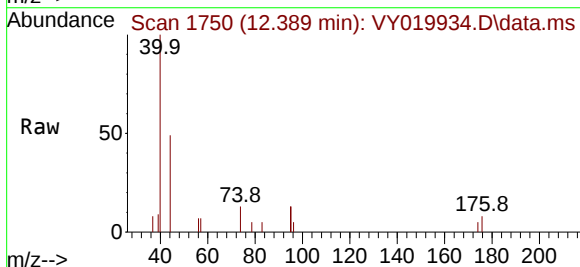
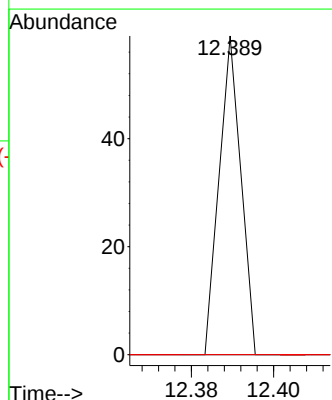
Tgt Ion: 83 Resp: 22

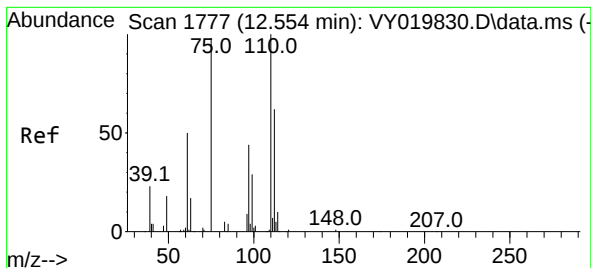
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.0 96.0#

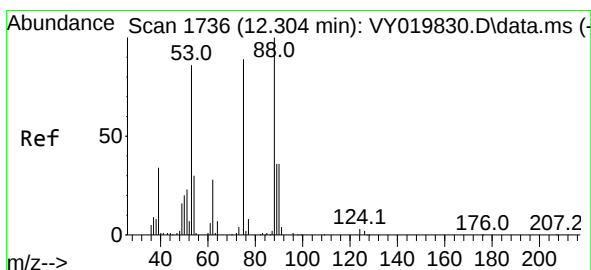
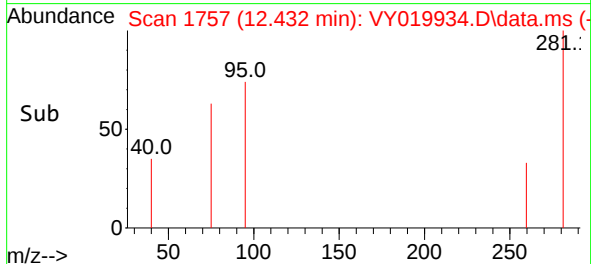
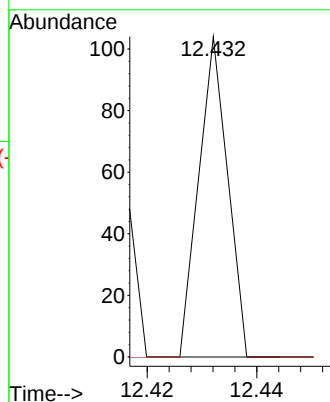
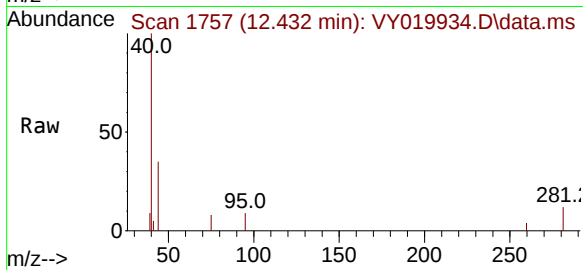




#76
1,2,3-Trichloropropane
Concen: 2.799 ug/l
RT: 12.432 min Scan# 1757
Delta R.T. -0.128 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

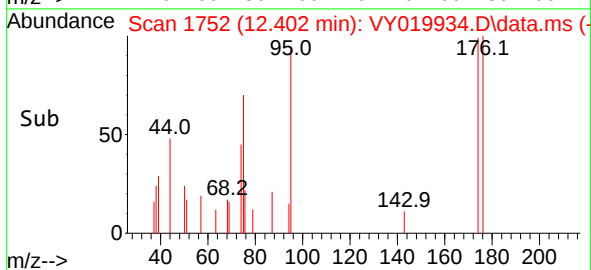
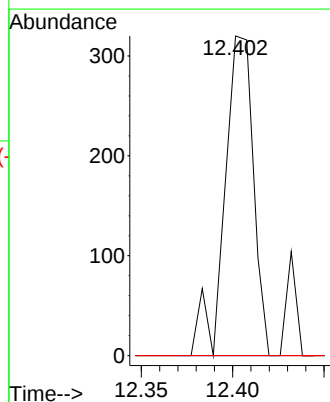
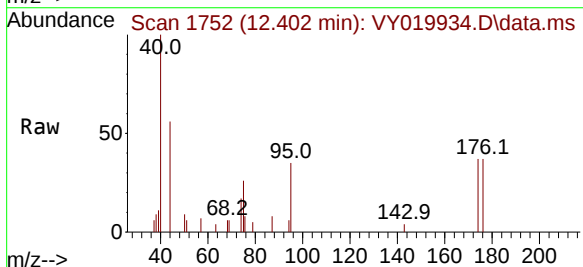
Instrument :
MSVOA_Y
ClientSampleId :

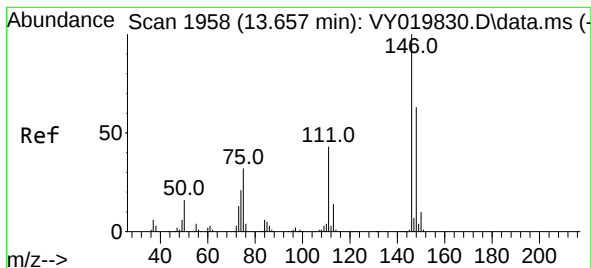
Tgt Ion: 75 Resp: 38
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 104.657 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

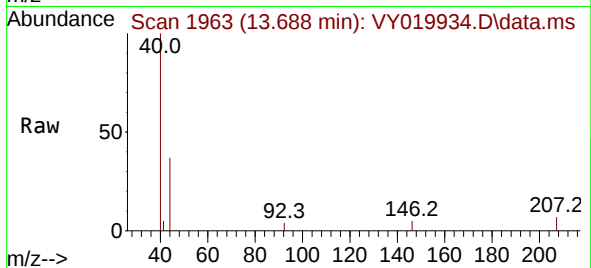
Tgt Ion: 75 Resp: 352
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#



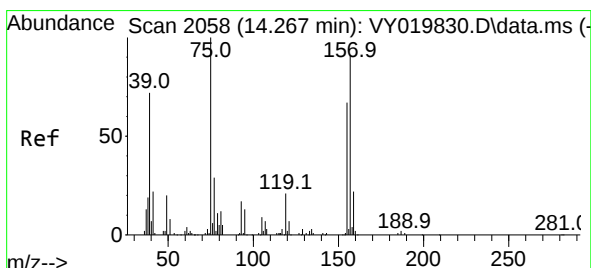
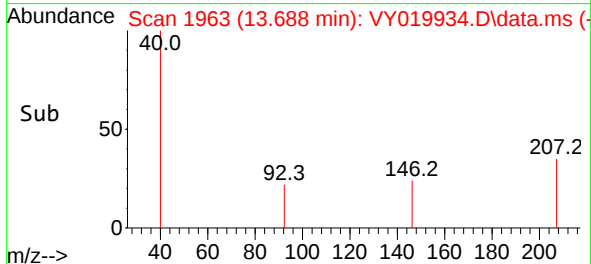
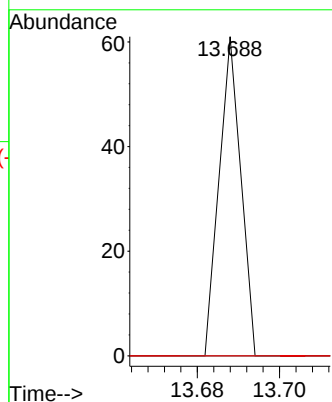


#91
1,2-Dichlorobenzene
Concen: 1.002 ug/l
RT: 13.688 min Scan# 1958
Delta R.T. 0.031 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

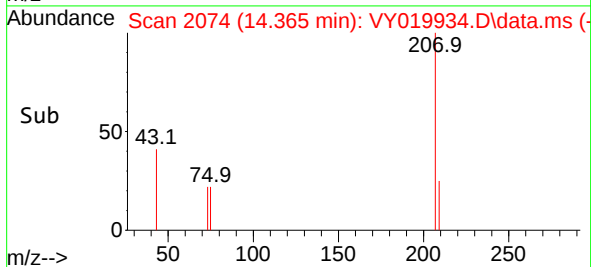
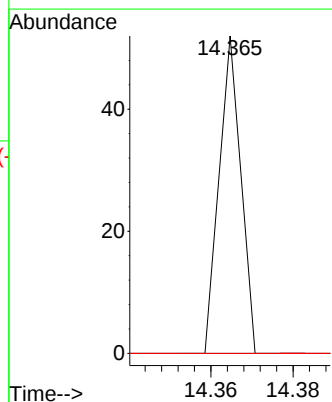
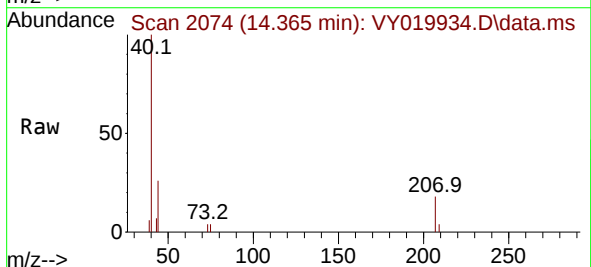


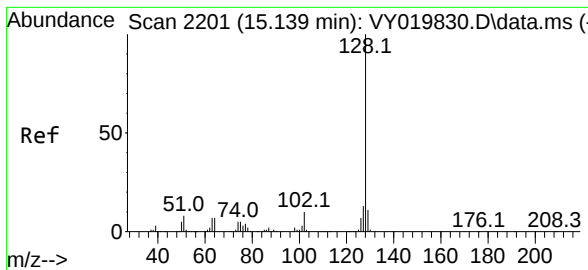
Tgt Ion:146 Resp: 22
Ion Ratio Lower Upper
146 100
111 0.0 19.9 59.7#
148 0.0 31.8 95.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 11.494 ug/l
RT: 14.365 min Scan# 2074
Delta R.T. 0.092 min
Lab File: VY019934.D
Acq: 17 Oct 2024 16:01

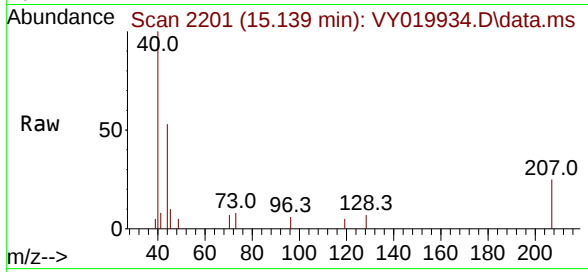
Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#





#95
 Naphthalene
 Concen: 1.379 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VY019934.D
 Acq: 17 Oct 2024 16:01

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	128	Resp:	32
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	13.0#

