

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY083024\
 Data File : VY019411.D
 Acq On : 30 Aug 2024 21:17
 Operator : SY/MD
 Sample : P3787-05
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

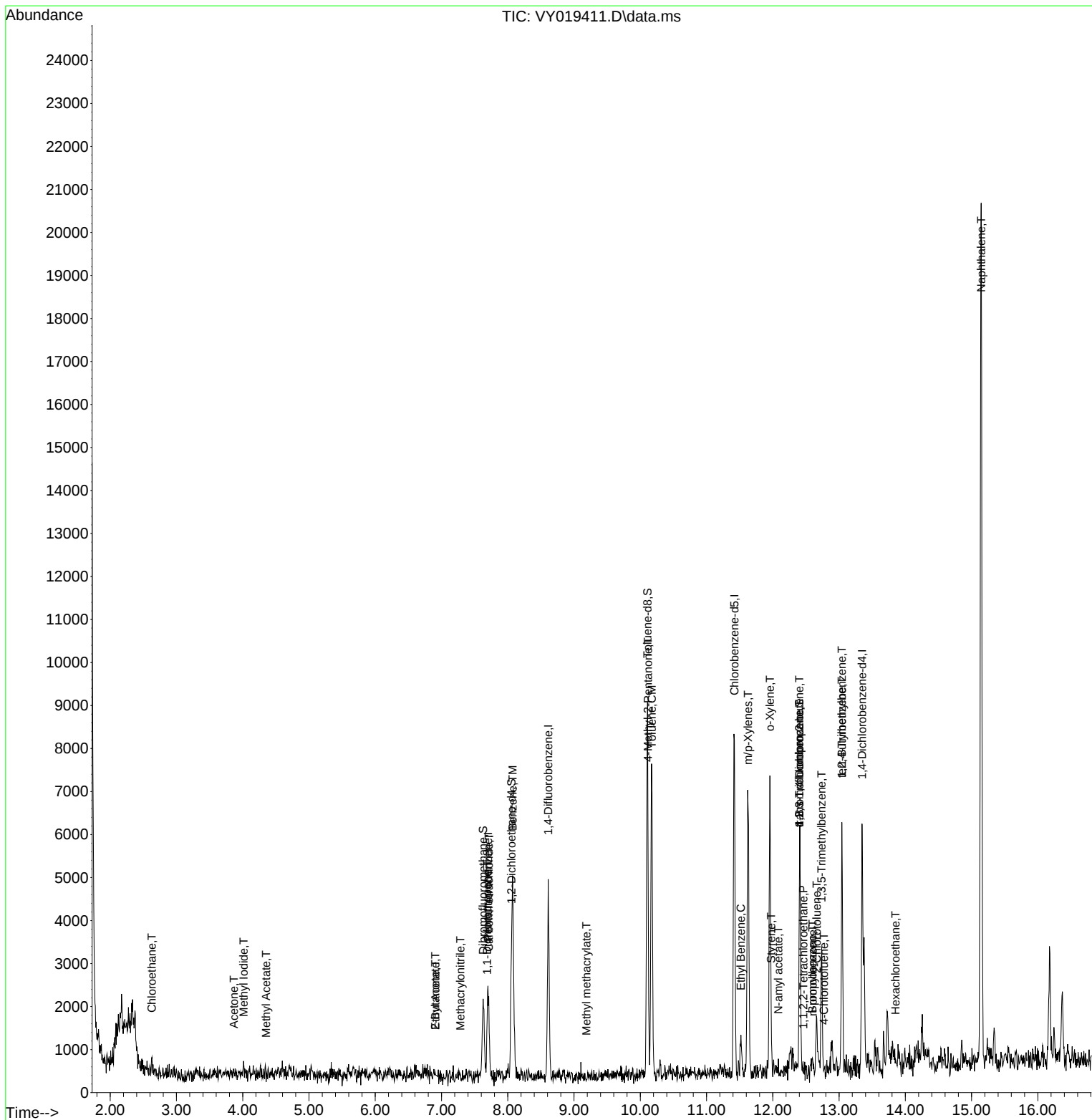
Quant Time: Aug 30 23:21:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082924S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 02:45:30 2024
 Response via : Initial Calibration

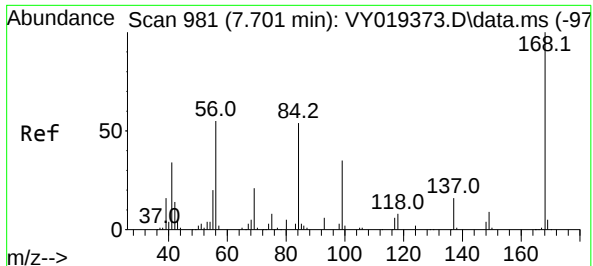
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.701	168	2266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	4063	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	5007	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	1522	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	1714	79.858	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 159.720%	
35) Dibromofluoromethane	7.628	113	1637	63.727	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 127.460%	
50) Toluene-d8	10.109	98	5674	60.003	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 120.000%	
62) 4-Bromofluorobenzene	12.402	95	1714	56.041	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 112.080%	
Target Compounds						
					Qvalue	
6) Chloroethane	2.629	64	53	2.525	ug/l #	42
10) Methyl Iodide	4.013	142	144	6.378	ug/l #	42
16) Acetone	3.867	43	53	12.555	ug/l #	36
18) Methyl Acetate	4.354	43	19	2.039	ug/l #	46
25) 2-Butanone	6.909	43	42	7.438	ug/l #	41
36) 1,1-Dichloropropene	7.689	75	56	1.543	ug/l #	40
37) Ethyl Acetate	6.909	43	42	2.923	ug/l #	67
38) Carbon Tetrachloride	7.713	117	89	2.012	ug/l #	13
40) Benzene	8.073	78	3241	29.337	ug/l #	83
41) Methacrylonitrile	7.287	41	56	6.462	ug/l #	20
48) Methyl methacrylate	9.189	41	25	1.886	ug/l #	7
51) 4-Methyl-2-Pentanone	10.115	43	41	2.792	ug/l #	31
52) Toluene	10.176	92	3095	42.733	ug/l	97
67) Ethyl Benzene	11.518	91	810	4.136	ug/l #	58
68) m/p-Xylenes	11.627	106	2289	29.539	ug/l	91
69) o-Xylene	11.957	106	1861	25.784	ug/l	92
70) Styrene	11.975	104	327	2.769	ug/l #	34
74) N-amyl acetate	12.085	43	26	1.114	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	12.463	83	19	1.053	ug/l #	26
76) 1,2,3-Trichloropropane	12.402	75	1067	79.828	ug/l #	100
77) Bromobenzene	12.597	156	239	8.358	ug/l #	1
78) n-propylbenzene	12.603	91	255	1.739	ug/l #	53
79) 2-Chlorotoluene	12.664	91	116	1.420	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.737	105	1245	13.020	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.402	75	1067	197.501	ug/l #	16
82) 4-Chlorotoluene	12.774	91	84	1.016	ug/l #	39
83) tert-Butylbenzene	13.042	119	275	3.145	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.042	105	2872	31.285	ug/l	92
90) Hexachloroethane	13.853	117	51	2.410	ug/l #	12
95) Naphthalene	15.145	128	16799	430.092	ug/l	98

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

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Response via : Initial Calibration

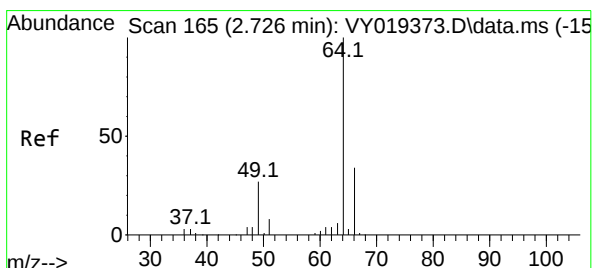
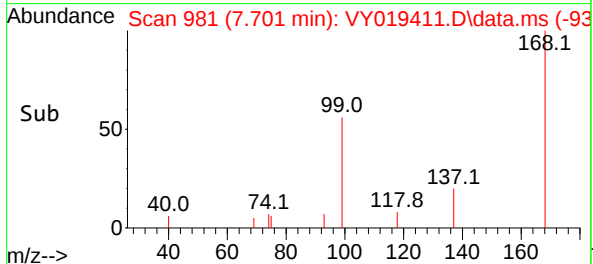
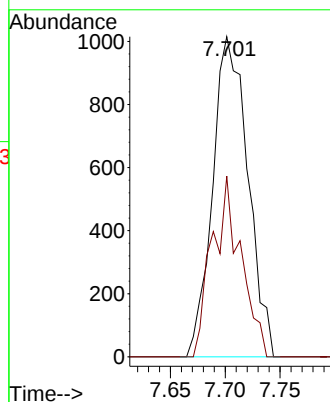
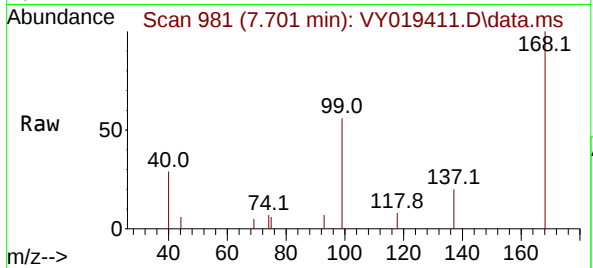




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

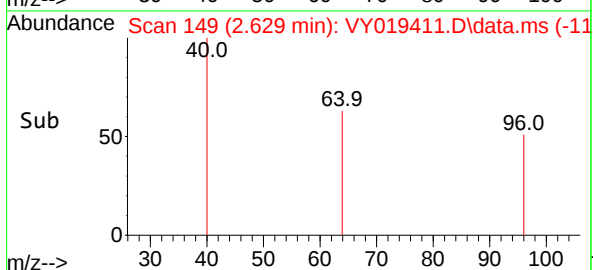
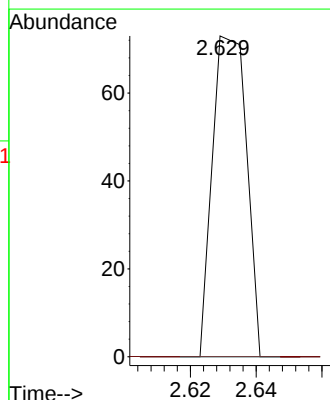
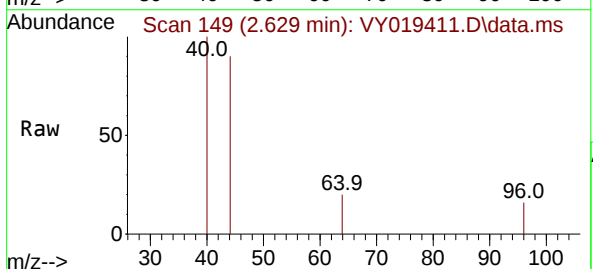
Instrument :
MSVOA_Y
ClientSampleId :

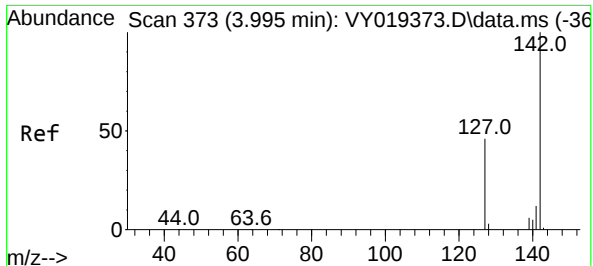
Tgt Ion:168 Resp: 2266
Ion Ratio Lower Upper
168 100
99 56.5 39.1 58.7



#6
Chloroethane
Concen: 2.525 ug/l
RT: 2.629 min Scan# 149
Delta R.T. -0.097 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 64 Resp: 53
Ion Ratio Lower Upper
64 100
66 0.0 26.1 39.1#





#10

Methyl Iodide

Concen: 6.378 ug/l

RT: 4.013 min Scan# 31

Delta R.T. 0.018 min

Lab File: VY019411.D

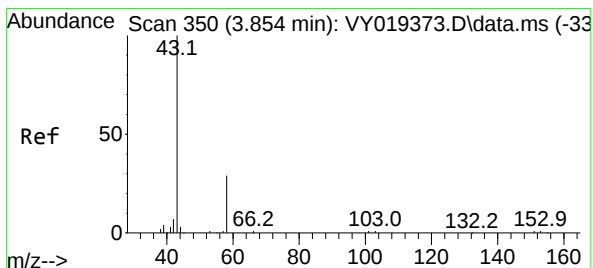
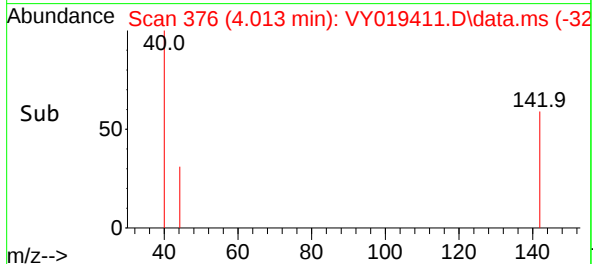
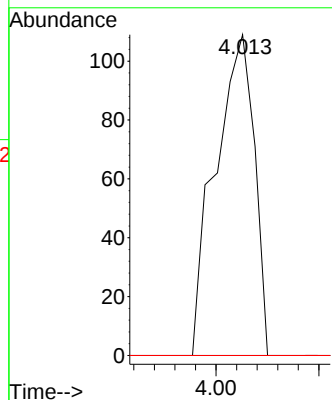
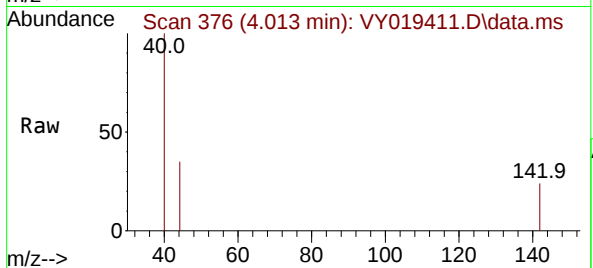
Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:142	Resp:	144
Ion	Ratio	Lower Upper
142	100	
127	0.0	32.8 49.2#
141	0.0	11.4 17.2#



#16

Acetone

Concen: 12.555 ug/l

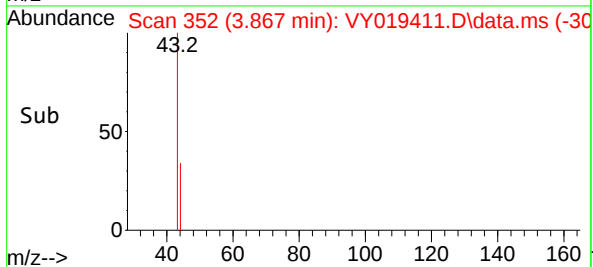
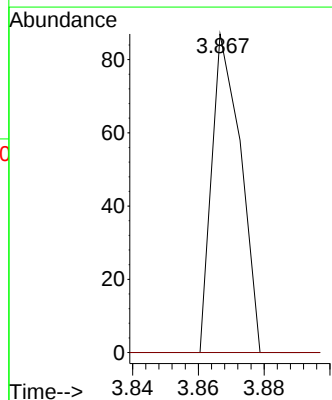
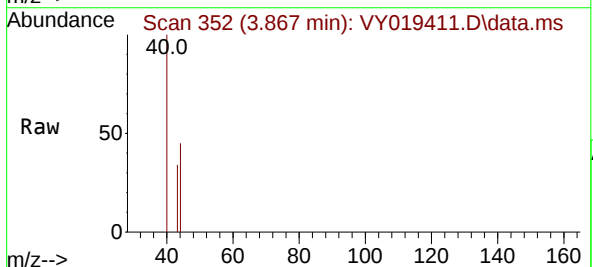
RT: 3.867 min Scan# 352

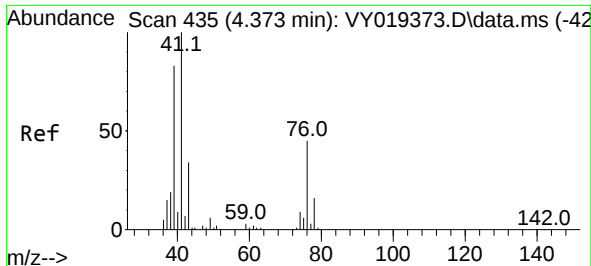
Delta R.T. 0.012 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

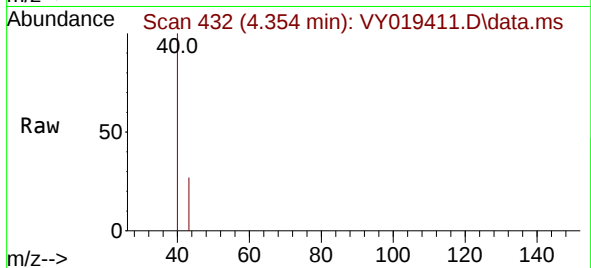
Tgt Ion: 43	Resp:	53
Ion	Ratio	Lower Upper
43	100	
58	0.0	31.7 47.5#



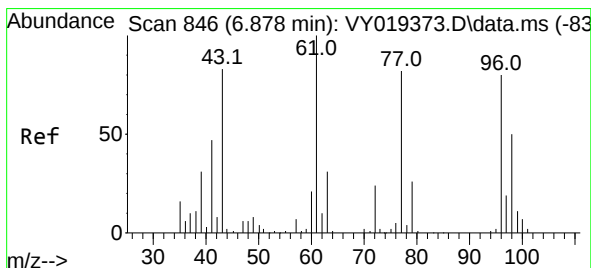
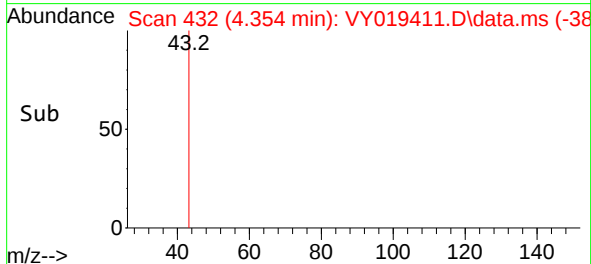
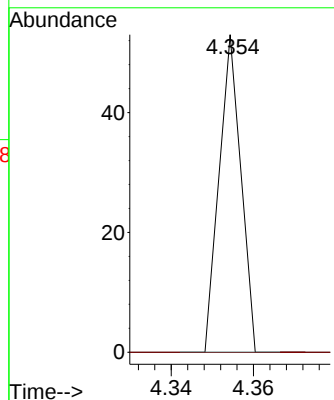


#18
Methyl Acetate
Concen: 2.039 ug/l
RT: 4.354 min Scan# 41
Delta R.T. -0.018 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Instrument :
MSVOA_Y
ClientSampleId :

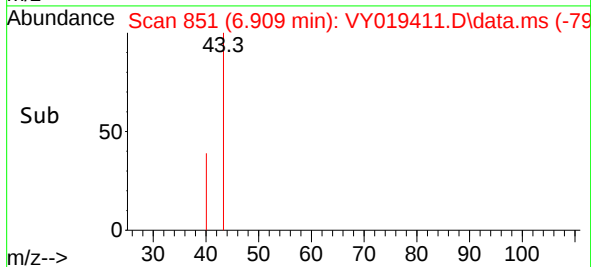
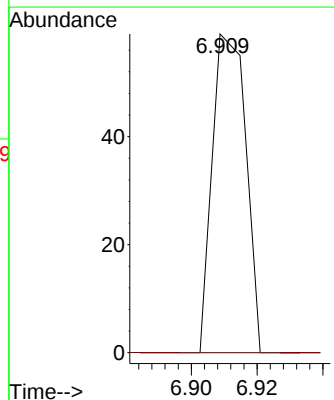
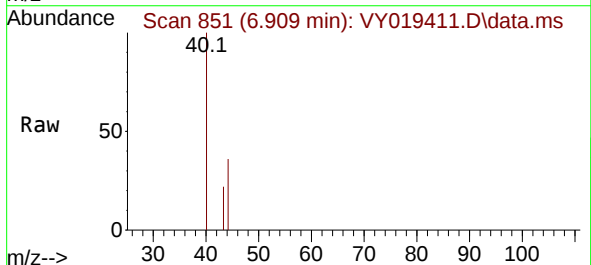


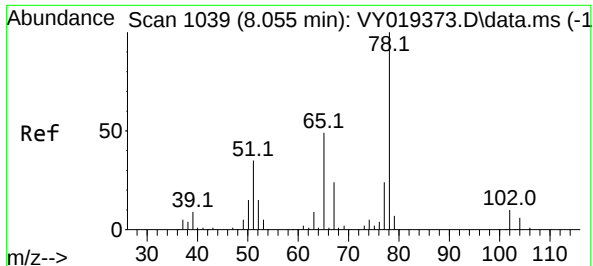
Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#



#25
2-Butanone
Concen: 7.438 ug/l
RT: 6.909 min Scan# 851
Delta R.T. 0.031 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#





#33

1,2-Dichloroethane-d4

Concen: 79.858 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. 0.000 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

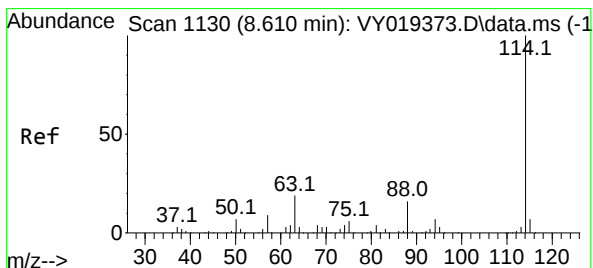
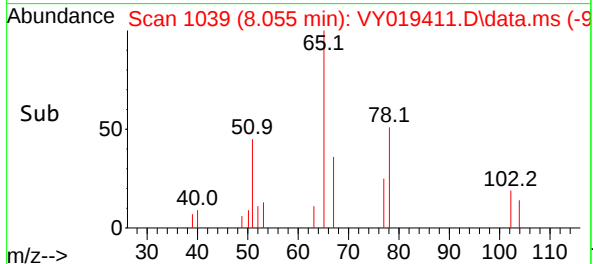
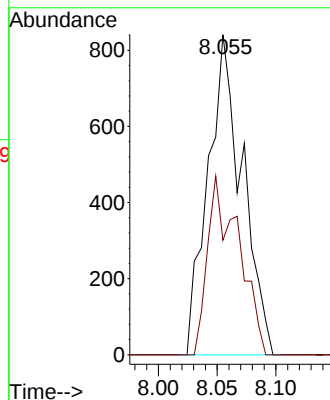
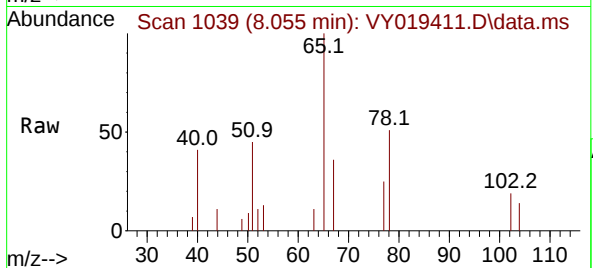
ClientSampleId :

Tgt Ion: 65 Resp: 1714

Ion Ratio Lower Upper

65 100

67 50.6 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: VY019411.D

Acq: 30 Aug 2024 21:17

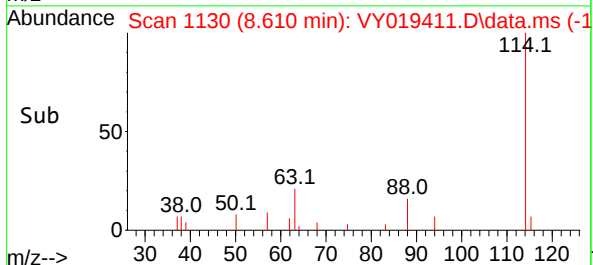
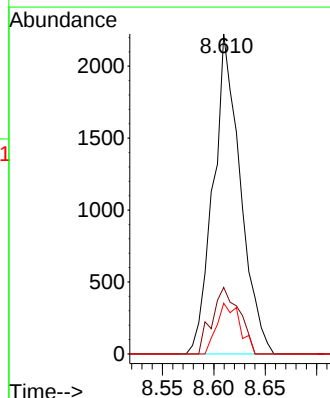
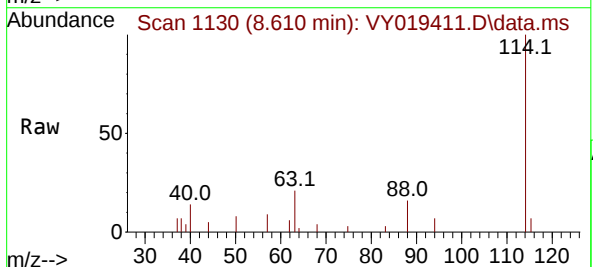
Tgt Ion: 114 Resp: 4063

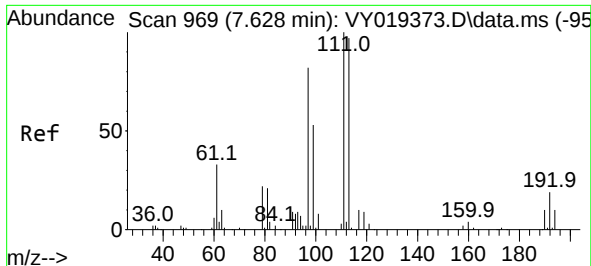
Ion Ratio Lower Upper

114 100

63 20.8 0.0 35.0

88 15.8 0.0 27.2

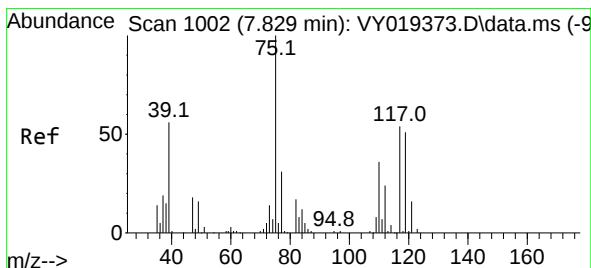
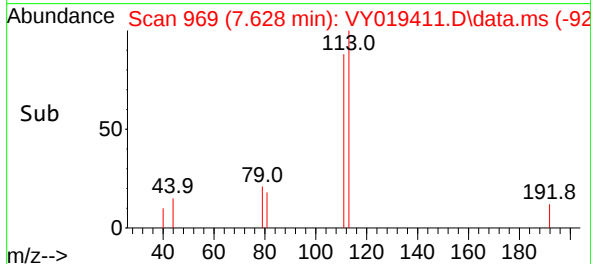
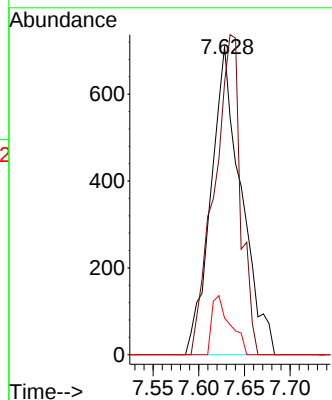
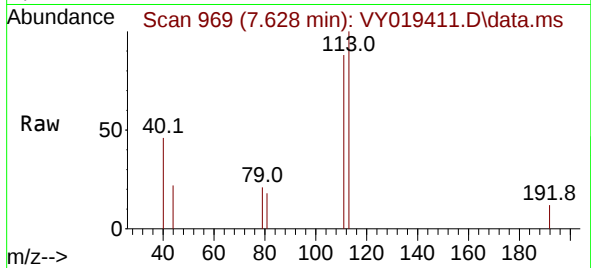




#35
Dibromofluoromethane
Concen: 63.727 ug/l
RT: 7.628 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

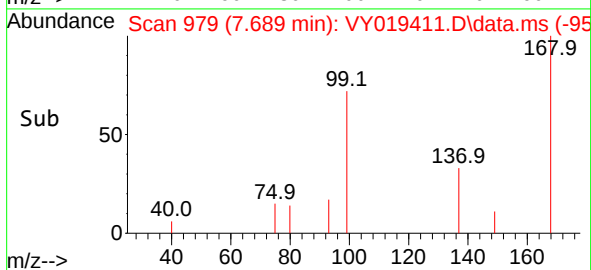
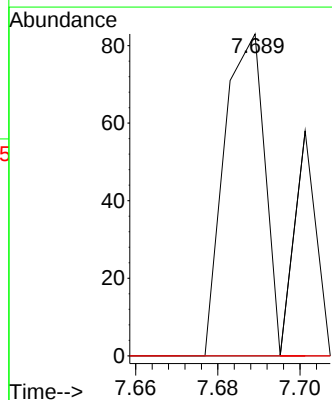
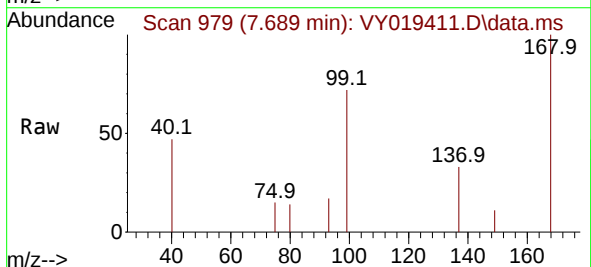
Instrument :
MSVOA_Y
ClientSampleId :

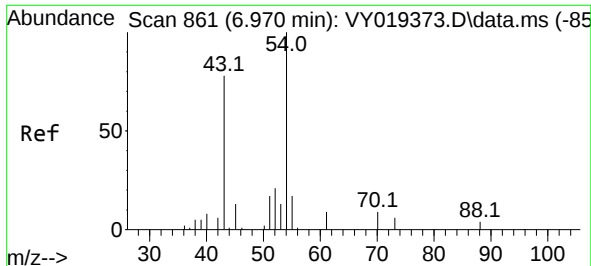
Tgt Ion:113 Resp: 1637
Ion Ratio Lower Upper
113 100
111 90.7 82.2 123.4
192 11.5 15.9 23.9#



#36
1,1-Dichloropropene
Concen: 1.543 ug/l
RT: 7.689 min Scan# 979
Delta R.T. -0.140 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
110 0.0 19.0 57.0#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 2.923 ug/l

RT: 6.909 min Scan# 81

Delta R.T. -0.061 min

Lab File: VY019411.D

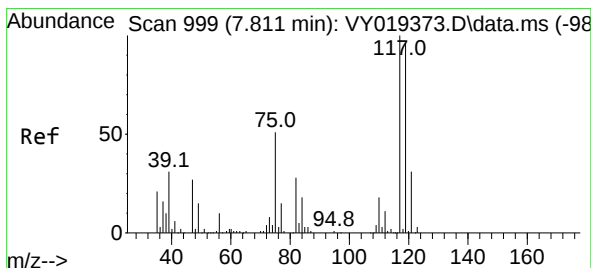
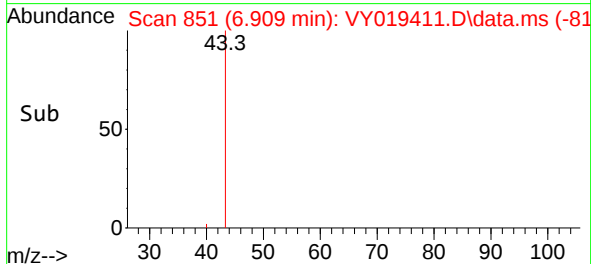
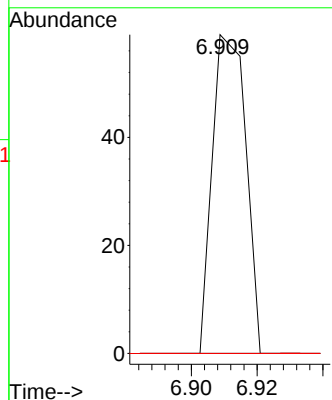
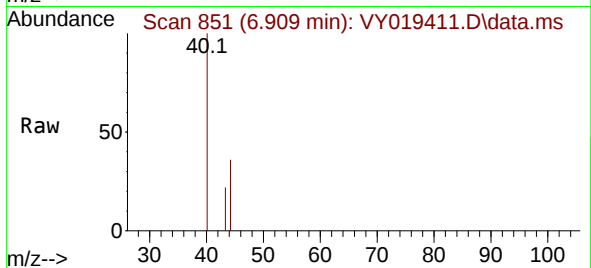
Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	43	Resp:	42
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.6	19.0#
70	0.0	7.8	11.8#



#38

Carbon Tetrachloride

Concen: 2.012 ug/l

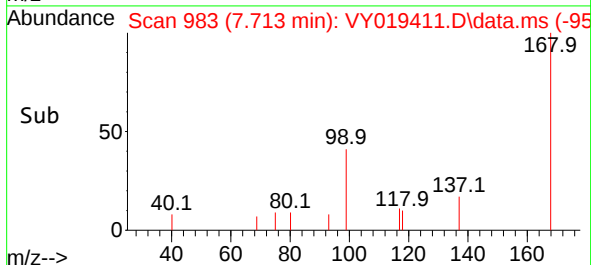
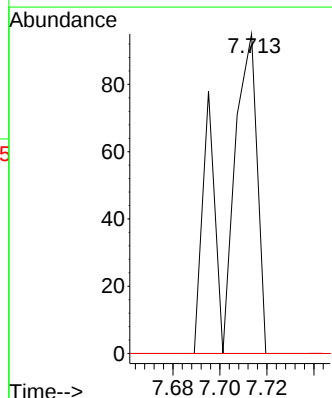
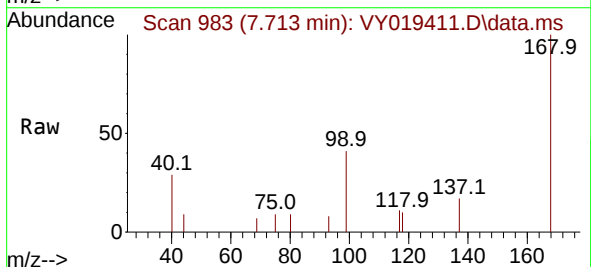
RT: 7.713 min Scan# 983

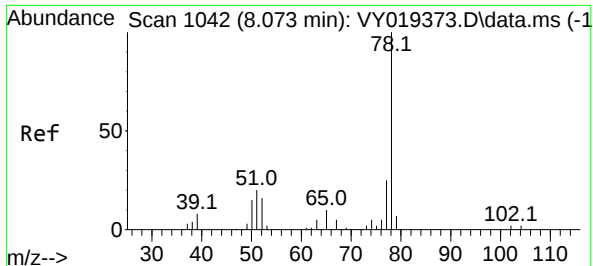
Delta R.T. -0.097 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Tgt Ion:	117	Resp:	89
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.6#
121	0.0	24.0	36.0#

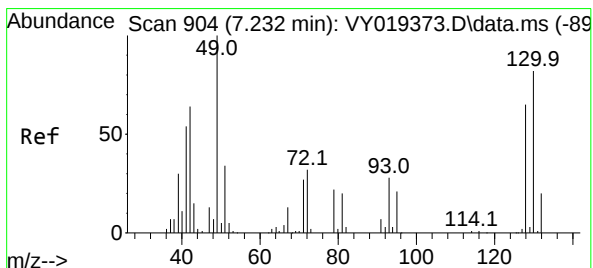
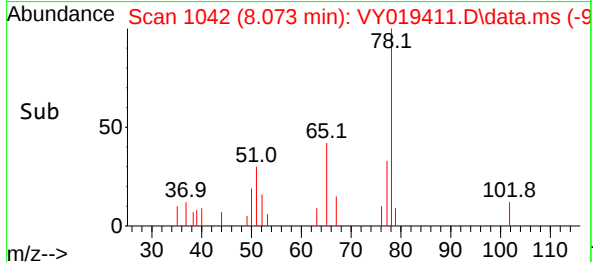
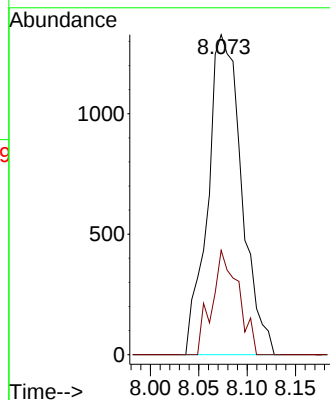
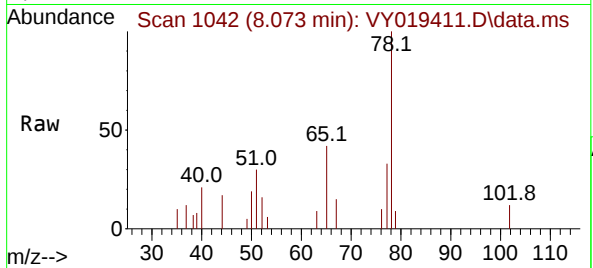




#40
Benzene
Concen: 29.337 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

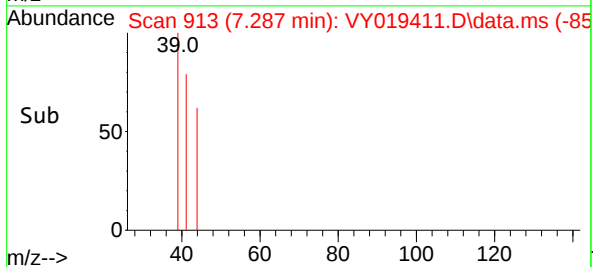
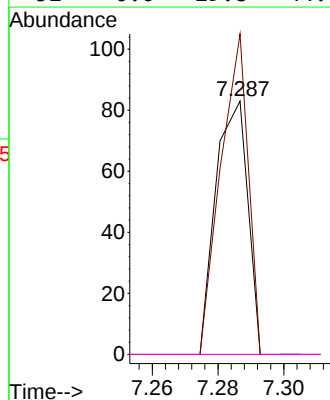
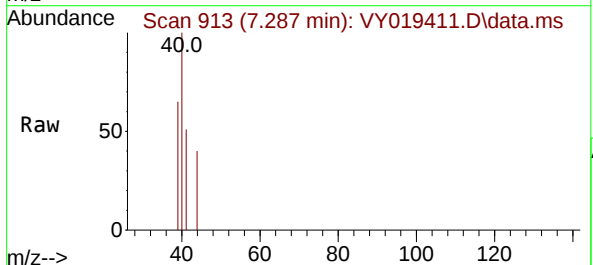
Instrument :
MSVOA_Y
ClientSampleId :

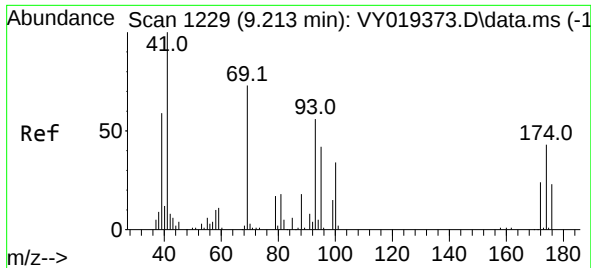
Tgt Ion: 78 Resp: 3241
Ion Ratio Lower Upper
78 100
77 32.6 19.5 29.3#



#41
Methacrylonitrile
Concen: 6.462 ug/l
RT: 7.287 min Scan# 913
Delta R.T. 0.055 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

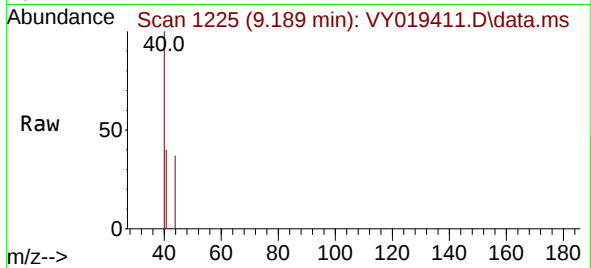
Tgt Ion: 41 Resp: 56
Ion Ratio Lower Upper
41 100
39 108.9 48.0 72.0#
67 0.0 75.1 112.7#
52 0.0 29.8 44.6#



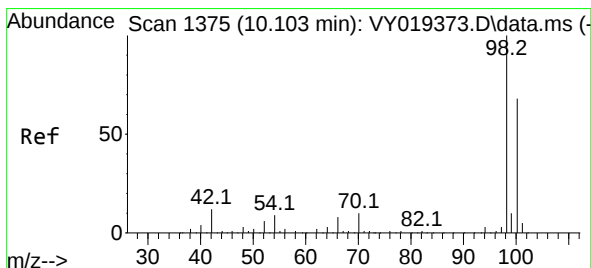
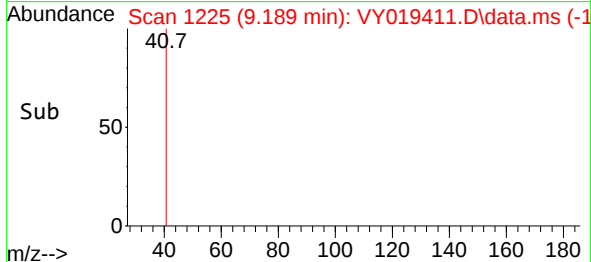
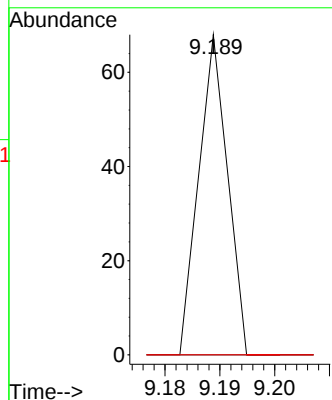


#48
Methyl methacrylate
Concen: 1.886 ug/l
RT: 9.189 min Scan# 1225
Delta R.T. -0.024 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Instrument :
MSVOA_Y
ClientSampleId :

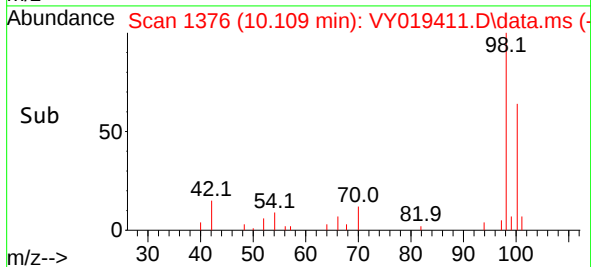
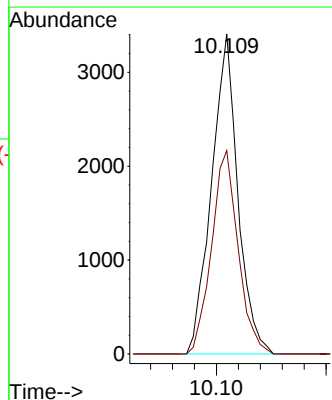
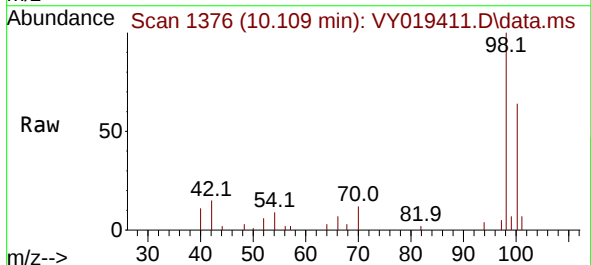


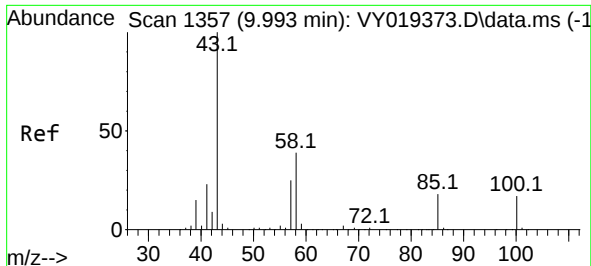
Tgt Ion: 41 Resp: 25
Ion Ratio Lower Upper
41 100
69 0.0 84.1 126.1#
39 0.0 43.6 65.4#



#50
Toluene-d8
Concen: 60.003 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 98 Resp: 5674
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 2.792 ug/l

RT: 10.115 min Scan# 11

Delta R.T. 0.122 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

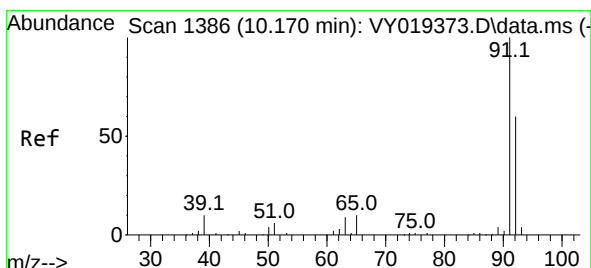
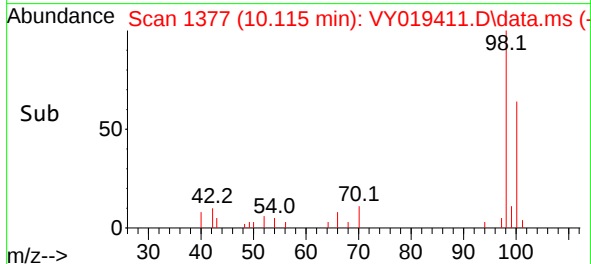
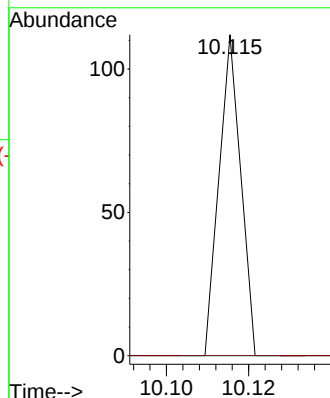
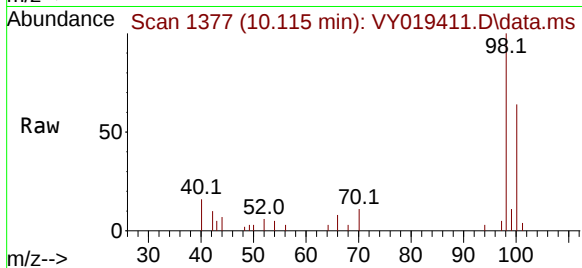
ClientSampleId :

Tgt Ion: 43 Resp: 41

Ion Ratio Lower Upper

43 100

58 0.0 35.7 53.5#



#52

Toluene

Concen: 42.733 ug/l

RT: 10.176 min Scan# 1387

Delta R.T. 0.006 min

Lab File: VY019411.D

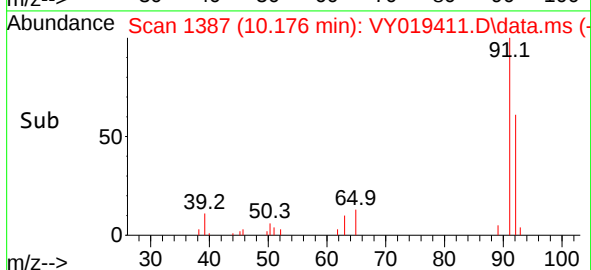
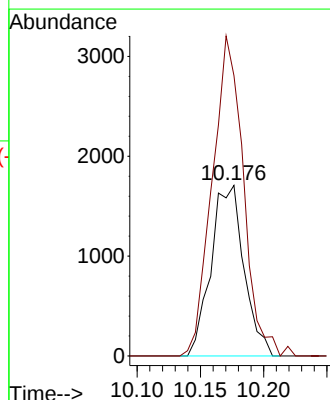
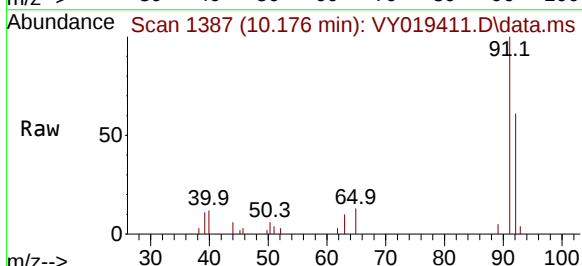
Acq: 30 Aug 2024 21:17

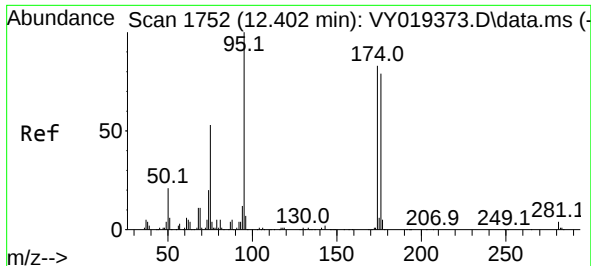
Tgt Ion: 92 Resp: 3095

Ion Ratio Lower Upper

92 100

91 177.7 139.0 208.6





#62

4-Bromofluorobenzene

Concen: 56.041 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

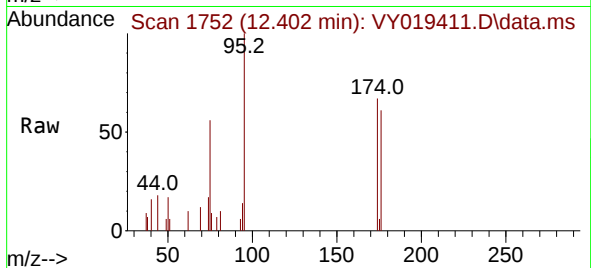
Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

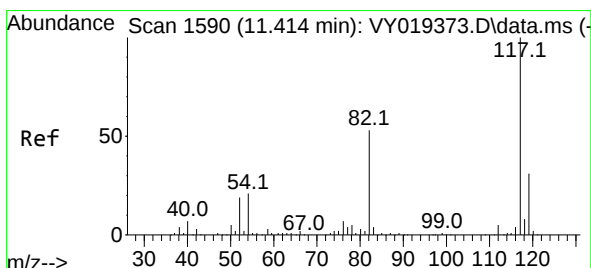
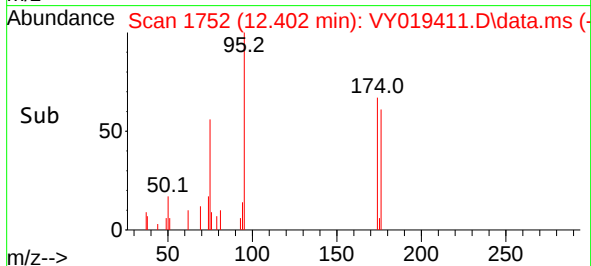
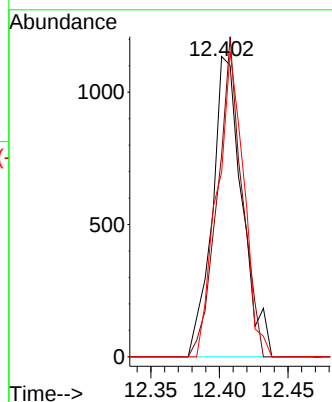
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	95	Resp:	1714
Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	175.6
176	90.6	0.0	171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

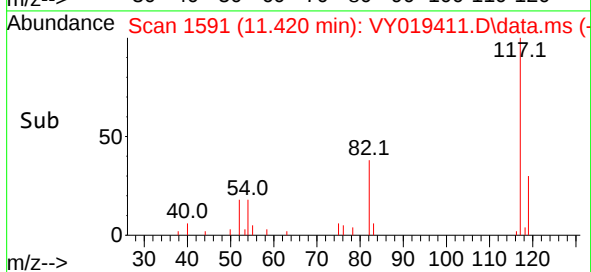
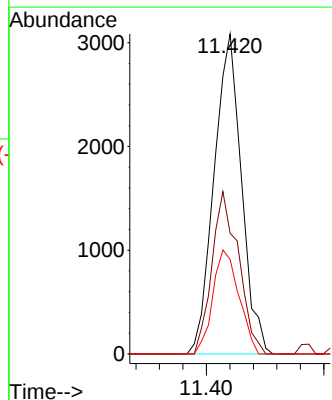
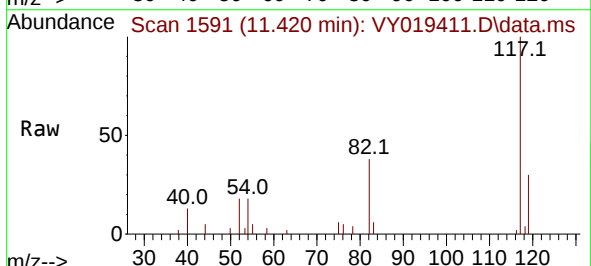
RT: 11.420 min Scan# 1591

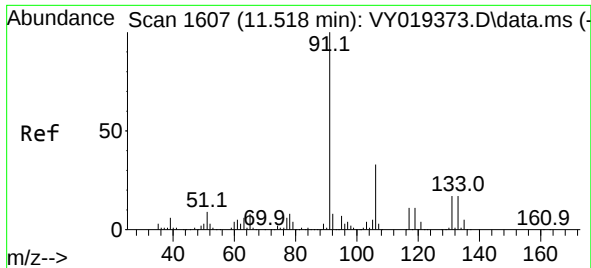
Delta R.T. 0.006 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Tgt Ion:	117	Resp:	5007
Ion	Ratio	Lower	Upper
117	100		
82	37.7	42.4	63.6#
119	29.6	25.9	38.9





#67

Ethyl Benzene

Concen: 4.136 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

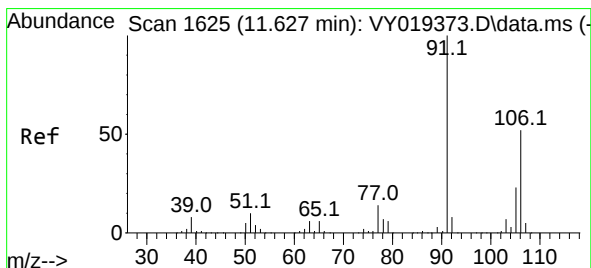
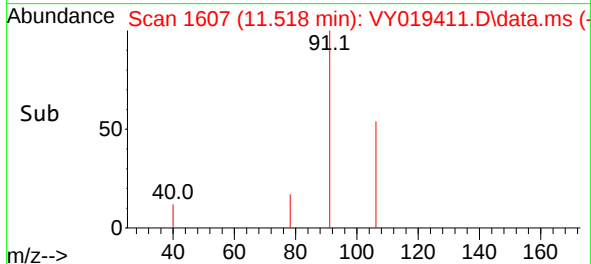
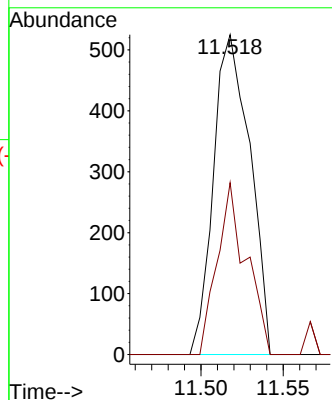
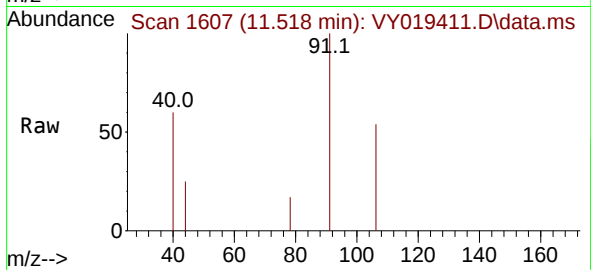
ClientSampleId :

Tgt Ion: 91 Resp: 810

Ion Ratio Lower Upper

91 100

106 53.7 24.5 36.7#



#68

m/p-Xylenes

Concen: 29.539 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY019411.D

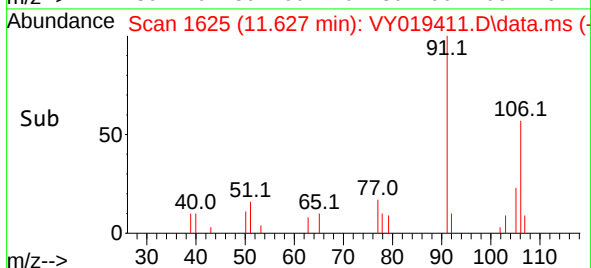
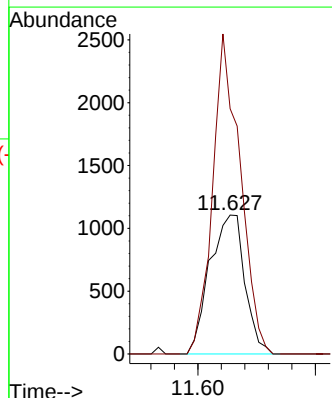
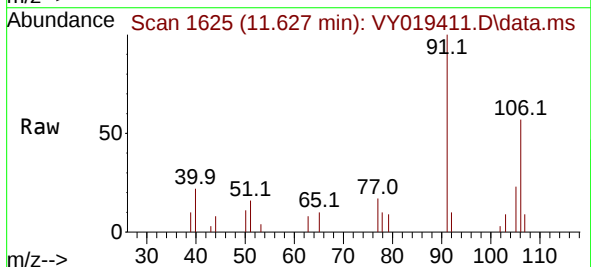
Acq: 30 Aug 2024 21:17

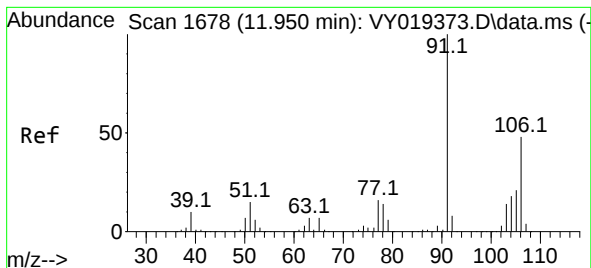
Tgt Ion:106 Resp: 2289

Ion Ratio Lower Upper

106 100

91 181.3 156.0 234.0





#69

o-Xylene

Concen: 25.784 ug/l

RT: 11.957 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

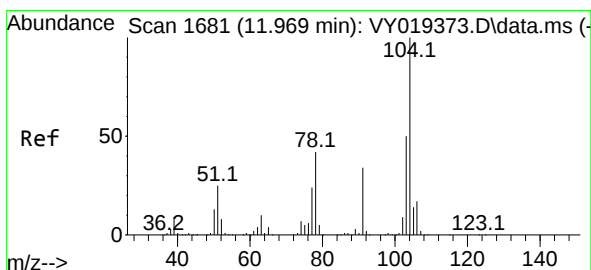
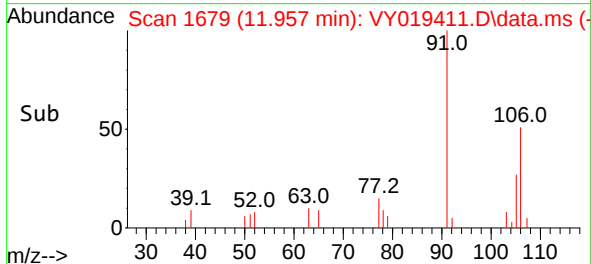
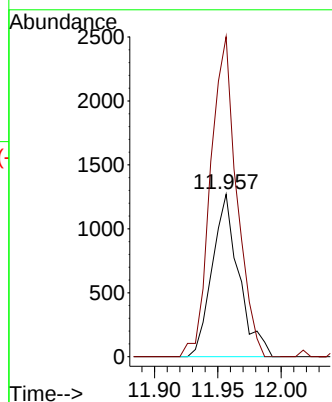
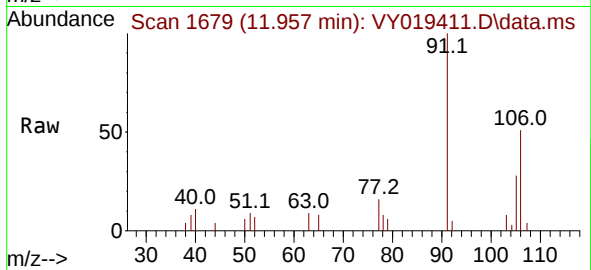
ClientSampleId :

Tgt Ion:106 Resp: 1861

Ion Ratio Lower Upper

106 100

91 194.2 103.6 310.8



#70

Styrene

Concen: 2.769 ug/l

RT: 11.975 min Scan# 1682

Delta R.T. 0.006 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

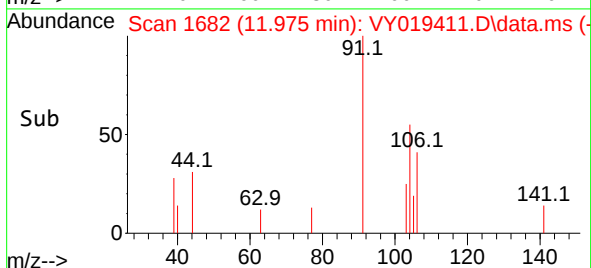
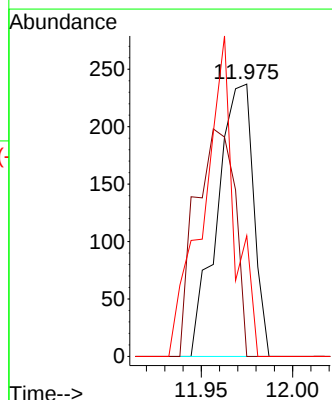
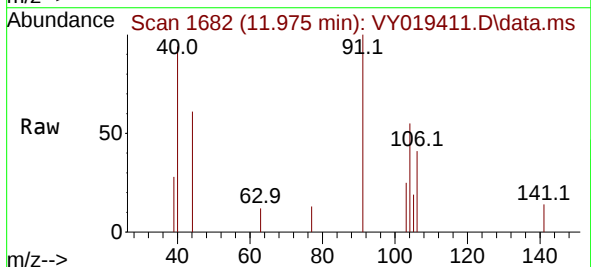
Tgt Ion:104 Resp: 327

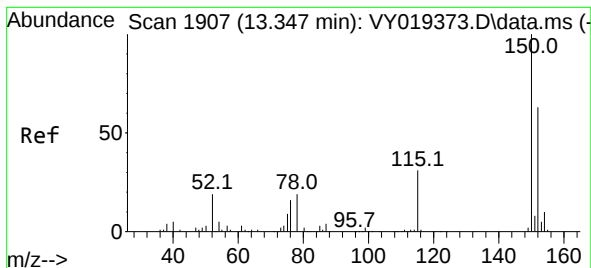
Ion Ratio Lower Upper

104 100

78 90.8 37.0 55.4#

103 101.8 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

ClientSampleId :

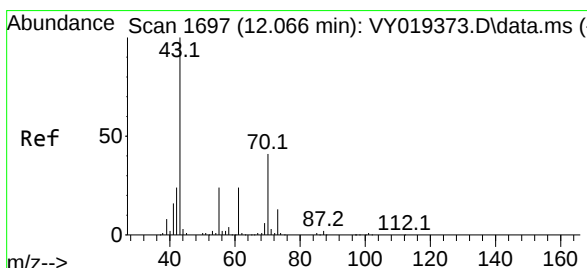
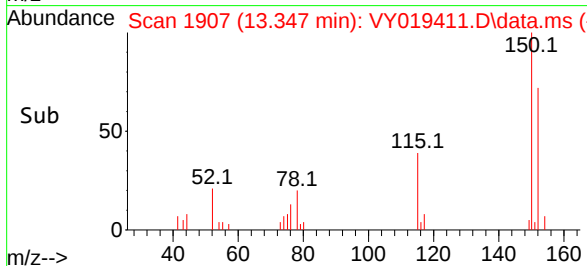
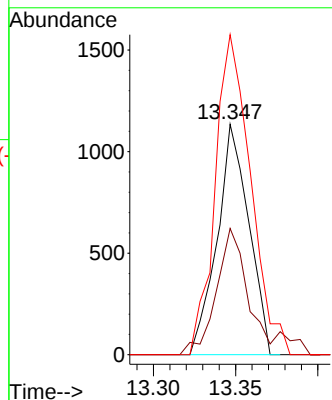
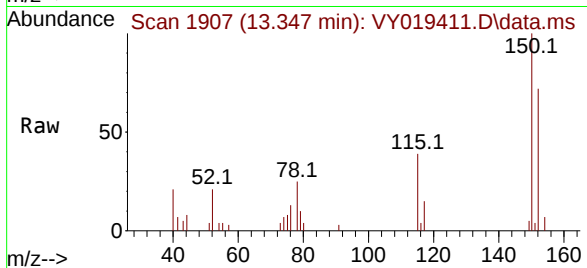
Tgt Ion:152 Resp: 1522

Ion Ratio Lower Upper

152 100

115 59.8 28.2 84.7

150 155.7 0.0 345.6



#74

N-ethyl acetate

Concen: 1.114 ug/l

RT: 12.085 min Scan# 1700

Delta R.T. 0.018 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Tgt Ion: 43 Resp: 26

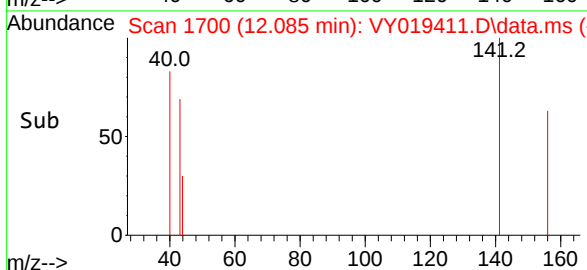
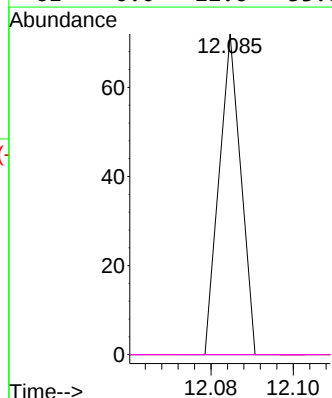
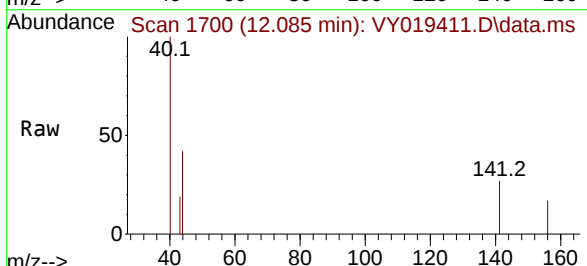
Ion Ratio Lower Upper

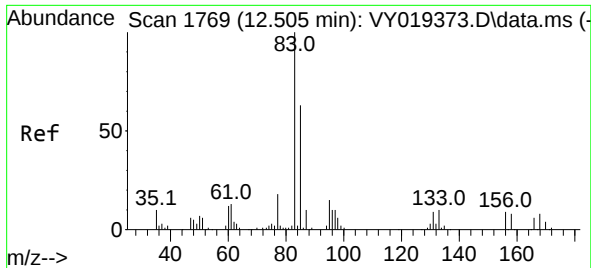
43 100

70 0.0 41.4 62.2#

55 0.0 23.3 34.9#

61 0.0 22.6 33.8#

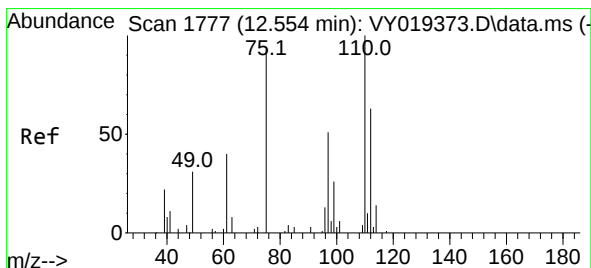
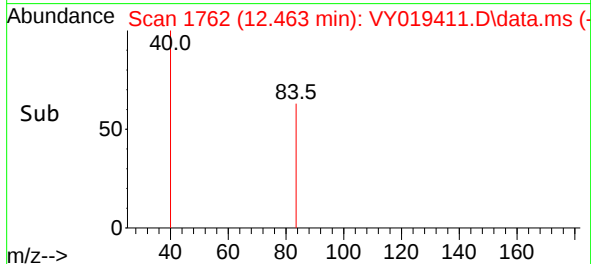
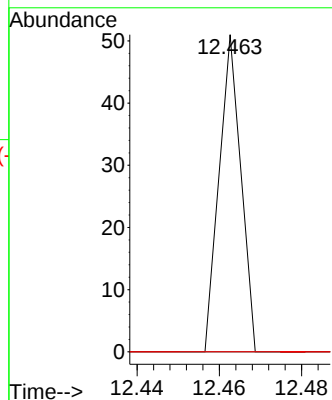
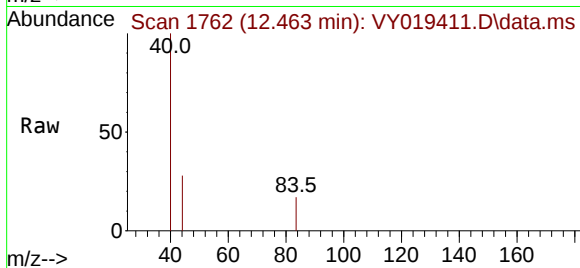




#75
1,1,2,2-Tetrachloroethane
Concen: 1.053 ug/l
RT: 12.463 min Scan# 1752
Delta R.T. -0.043 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

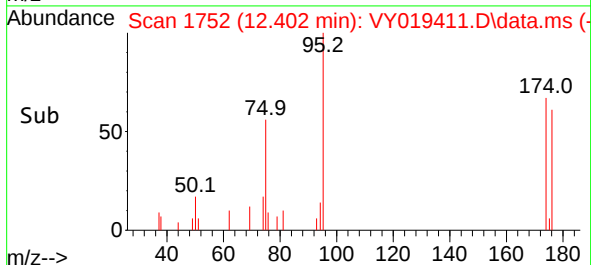
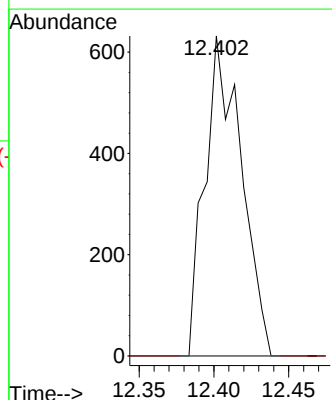
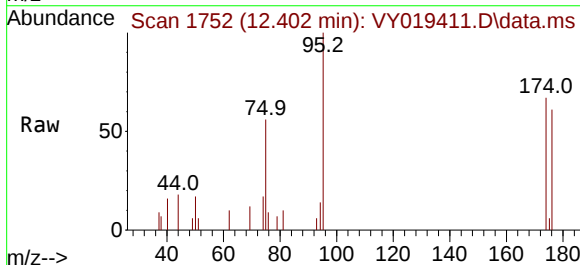
Instrument :
MSVOA_Y
ClientSampleId :

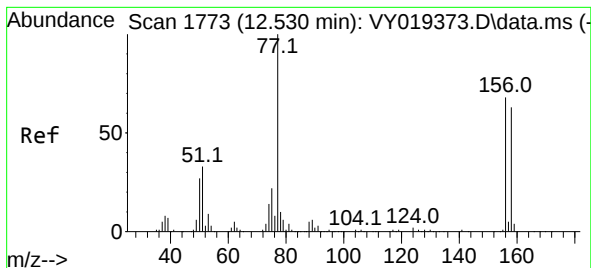
Tgt Ion: 83 Resp: 19
Ion Ratio Lower Upper
83 100
131 0.0 5.0 14.9#
85 0.0 32.0 96.0#



#76
1,2,3-Trichloropropane
Concen: 79.828 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 75 Resp: 1067
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 8.358 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.067 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

ClientSampleId :

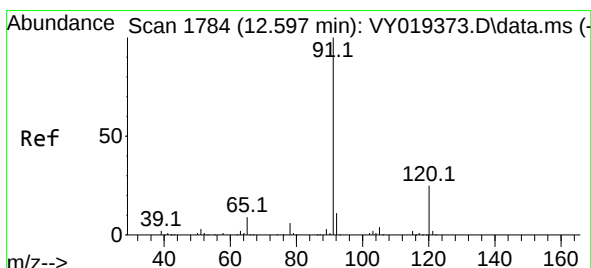
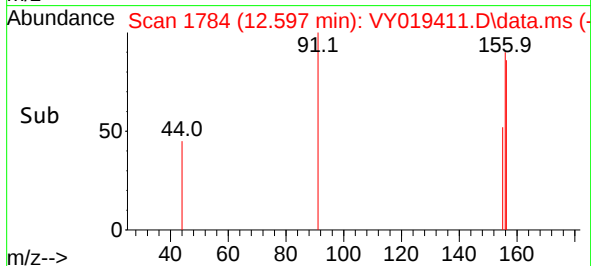
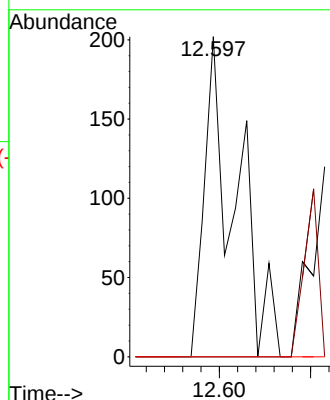
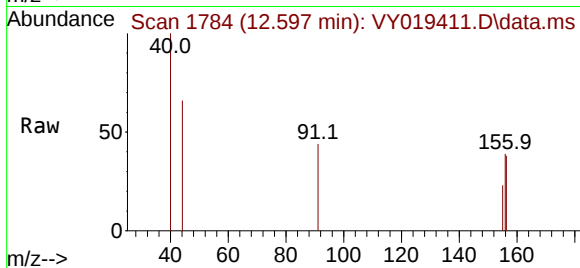
Tgt Ion:156 Resp: 239

Ion Ratio Lower Upper

156 100

77 0.0 87.1 261.3#

158 0.0 48.6 145.9#



#78

n-propylbenzene

Concen: 1.739 ug/l

RT: 12.603 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VY019411.D

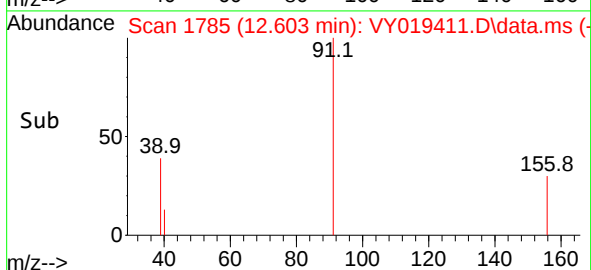
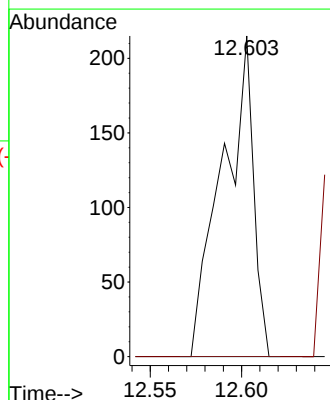
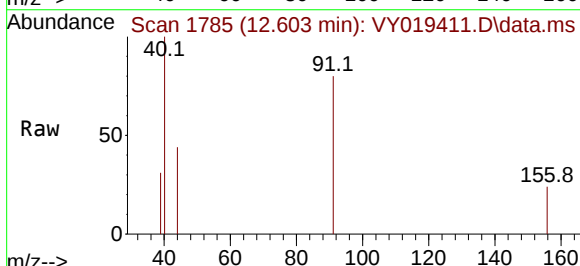
Acq: 30 Aug 2024 21:17

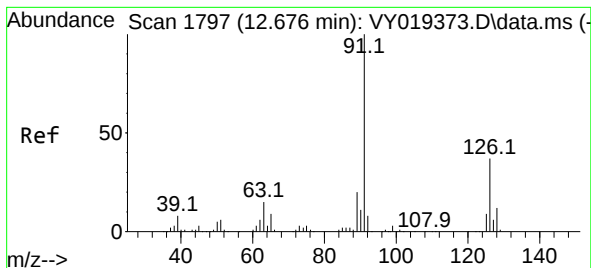
Tgt Ion: 91 Resp: 255

Ion Ratio Lower Upper

91 100

120 0.0 11.5 34.4#

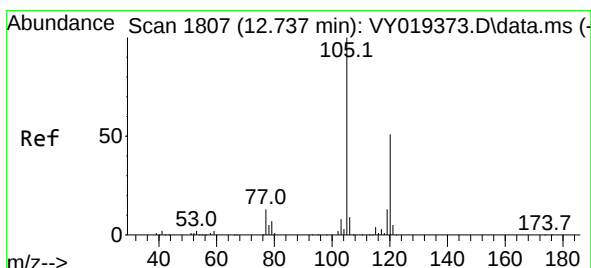
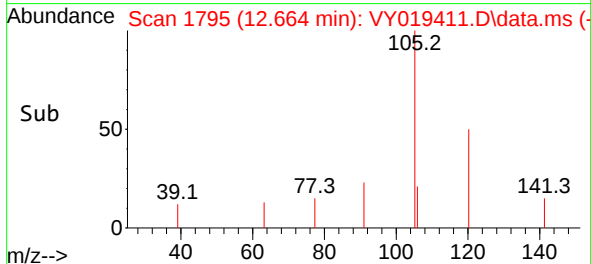
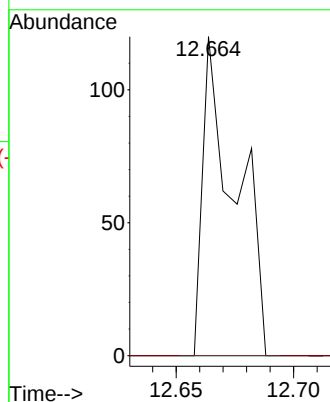
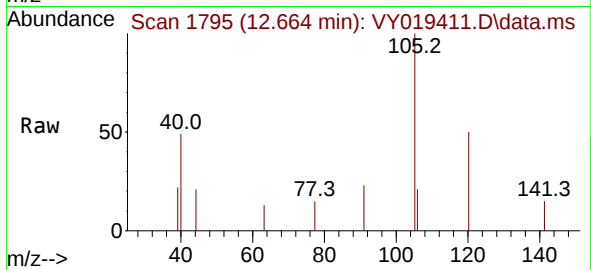




#79
2-Chlorotoluene
Concen: 1.420 ug/l
RT: 12.664 min Scan# 1795
Delta R.T. -0.012 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

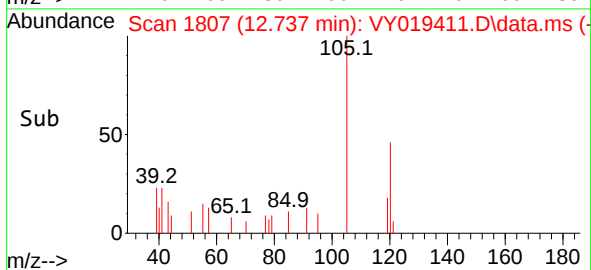
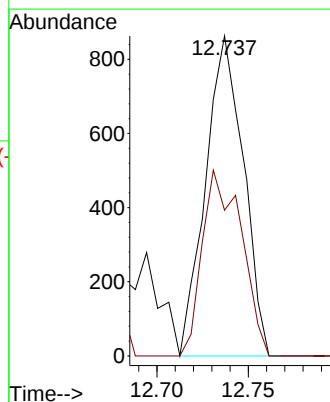
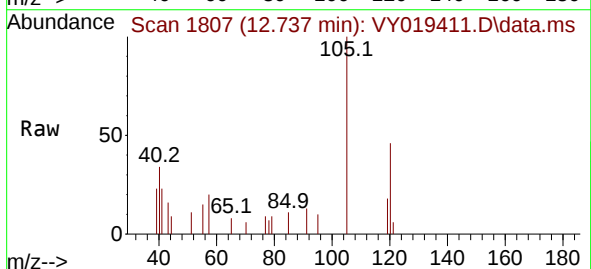
Instrument :
MSVOA_Y
ClientSampleId :

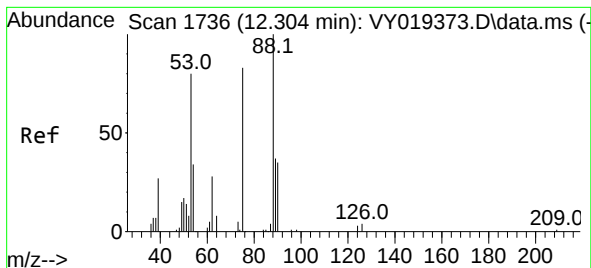
Tgt Ion: 91 Resp: 116
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



#80
1,3,5-Trimethylbenzene
Concen: 13.020 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 105 Resp: 1245
Ion Ratio Lower Upper
105 100
120 59.8 25.1 75.2

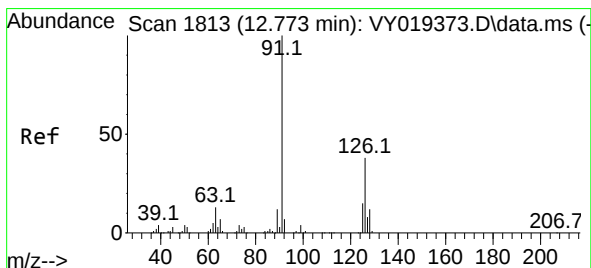
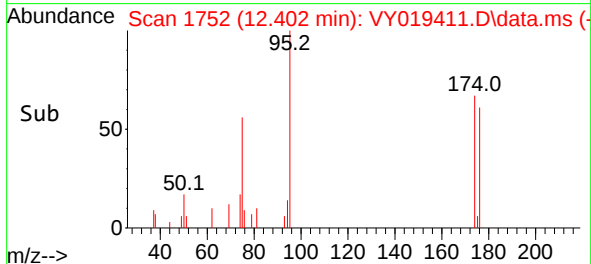
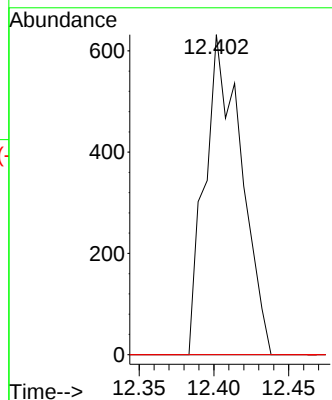
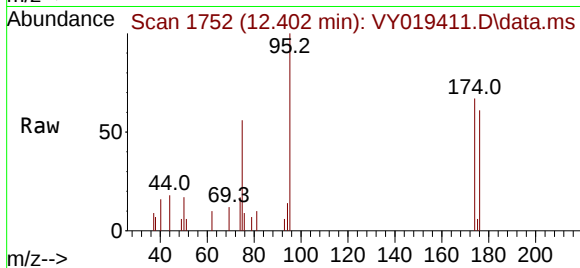




#81
trans-1,4-Dichloro-2-butene
Concen: 197.501 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

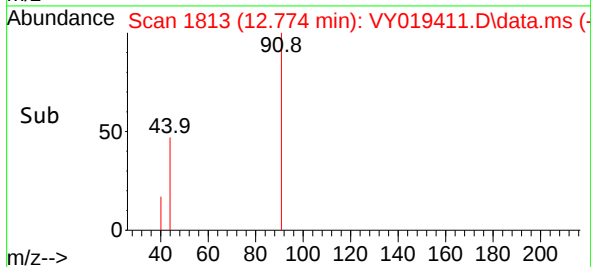
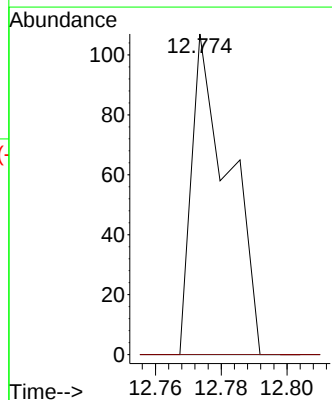
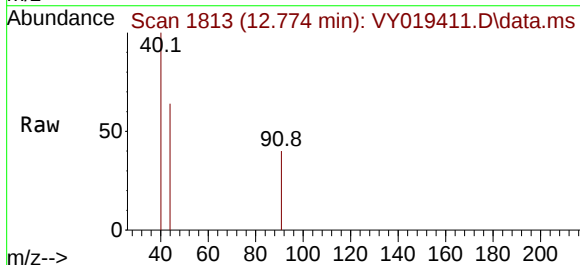
Instrument :
MSVOA_Y
ClientSampleId :

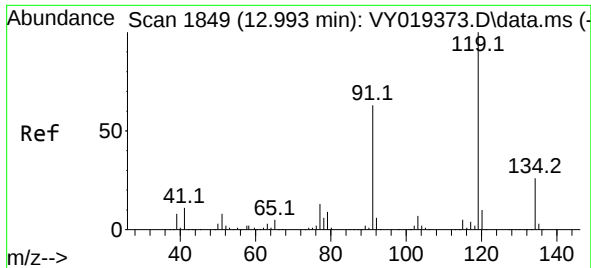
Tgt Ion: 75 Resp: 1067
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#



#82
4-Chlorotoluene
Concen: 1.016 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion: 91 Resp: 84
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.9#

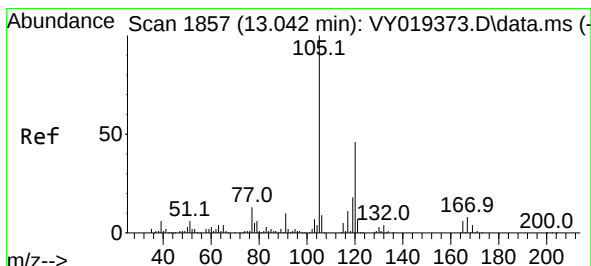
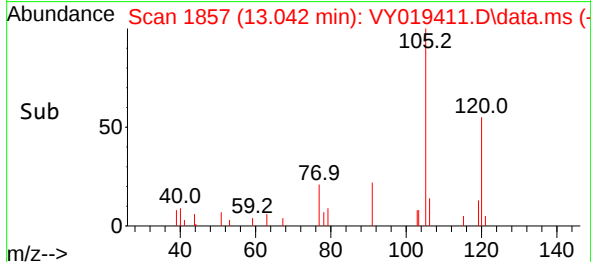
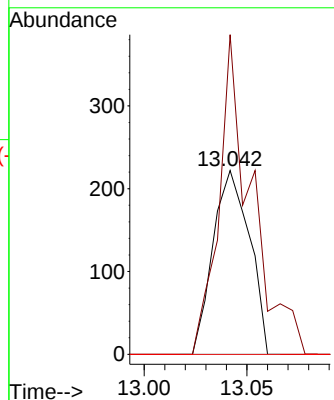
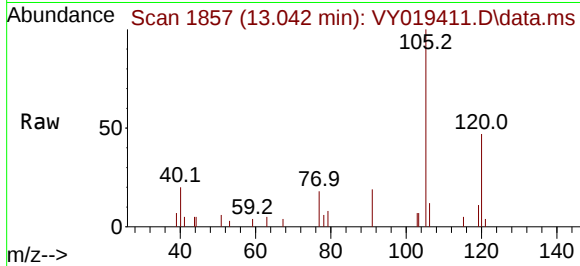




#83
tert-Butylbenzene
Concen: 3.145 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.049 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

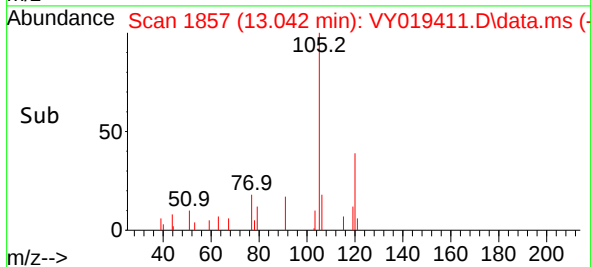
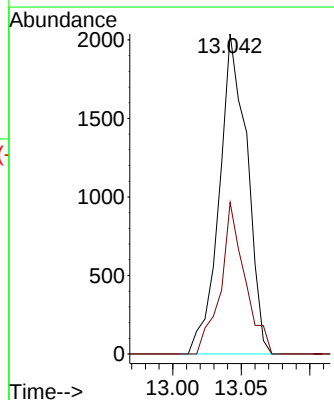
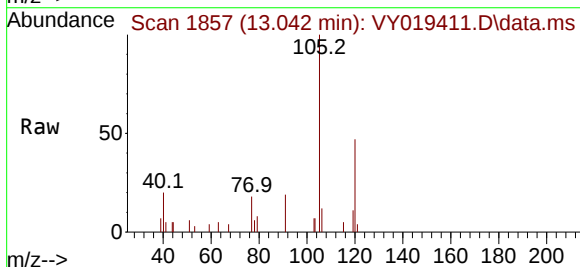
Instrument :
MSVOA_Y
ClientSampleId :

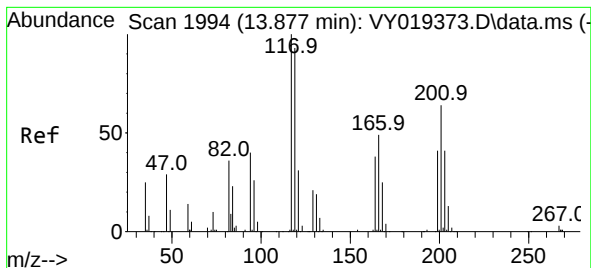
Tgt Ion:119 Resp: 275
Ion Ratio Lower Upper
119 100
91 155.3 31.3 93.8#
134 0.0 13.4 40.1#



#84
1,2,4-Trimethylbenzene
Concen: 31.285 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY019411.D
Acq: 30 Aug 2024 21:17

Tgt Ion:105 Resp: 2872
Ion Ratio Lower Upper
105 100
120 41.4 23.2 69.6





#90

Hexachloroethane

Concen: 2.410 ug/l

RT: 13.853 min Scan# 1990

Delta R.T. -0.024 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Instrument :

MSVOA_Y

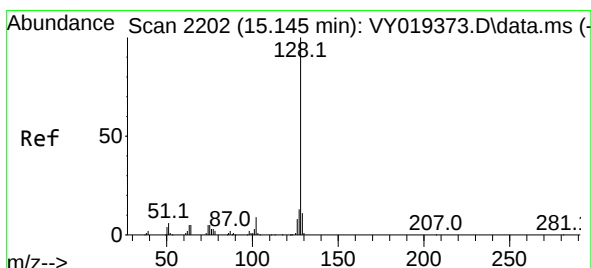
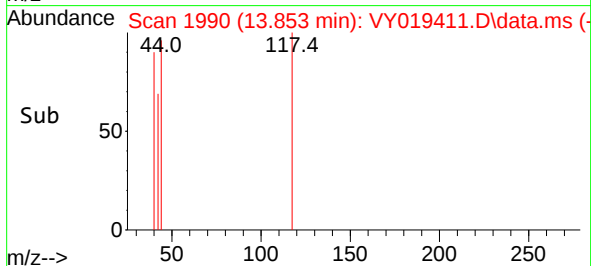
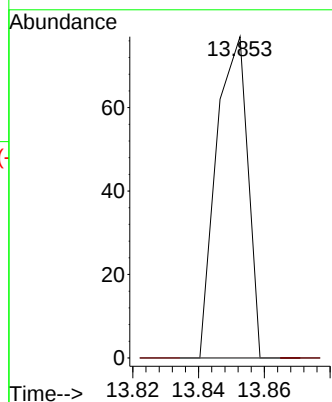
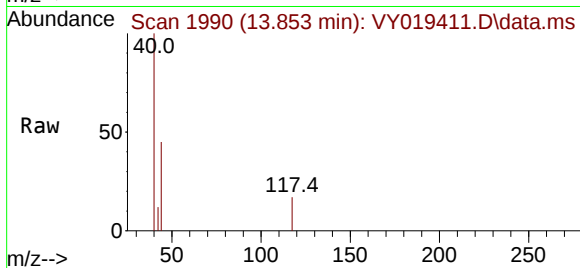
ClientSampleId :

Tgt Ion:117 Resp: 51

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#95

Naphthalene

Concen: 430.092 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY019411.D

Acq: 30 Aug 2024 21:17

Tgt Ion:128 Resp: 16799

Ion Ratio Lower Upper

128 100

127 12.6 10.6 16.0

129 11.4 8.6 13.0

