

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY013125\
 Data File : VY021015.D
 Acq On : 31 Jan 2025 17:17
 Operator : SY/MD
 Sample : Q1244-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

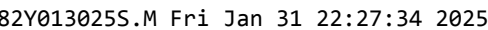
Quant Time: Jan 31 22:27:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y013025S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 31 16:50:06 2025
 Response via : Initial Calibration

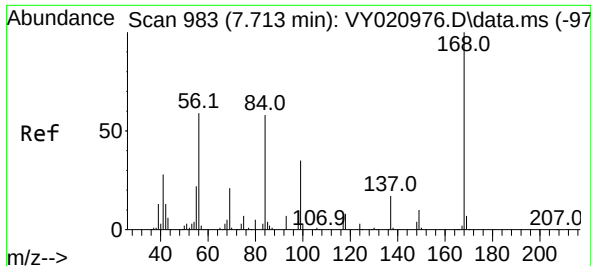
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	204809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	367314	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	352145	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	156100	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	108395	62.161	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.320%	
35) Dibromofluoromethane	7.634	113	119603	54.162	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.320%	
50) Toluene-d8	10.109	98	436823	50.682	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.360%	
62) 4-Bromofluorobenzene	12.408	95	157033	54.298	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 108.600%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	326	2.559	ug/l #	73
16) Acetone	3.866	43	1443	6.071	ug/l	96
31) Cyclohexane	7.707	56	3352	1.093	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	13841	4.394	ug/l #	50
38) Carbon Tetrachloride	7.707	117	20075	5.149	ug/l #	16
59) 2-Hexanone	10.731	43	1668	2.128	ug/l #	21
67) Ethyl Benzene	11.517	91	14333	1.116	ug/l	97
68) m/p-Xylenes	11.627	106	24137	4.890	ug/l	99
69) o-Xylene	11.956	106	14634	3.190	ug/l	98
73) Isopropylbenzene	12.255	105	11258	1.027	ug/l	98
74) N-amyl acetate	12.048	43	12646	6.335	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.456	83	2672	1.510	ug/l #	26
76) 1,2,3-Trichloropropane	12.408	75	80869	65.443	ug/l #	100
78) n-propylbenzene	12.597	91	34210	2.662	ug/l	98
79) 2-Chlorotoluene	12.658	91	13240	1.809	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.737	105	81842	9.112	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	80869	135.847	ug/l #	15
82) 4-Chlorotoluene	12.737	91	10230	1.365	ug/l #	52
83) tert-Butylbenzene	13.048	119	40922	4.912	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.048	105	327152	37.288	ug/l	99
85) sec-Butylbenzene	13.176	105	38953	3.303	ug/l	87
86) p-Isopropyltoluene	13.292	119	31352	3.163	ug/l	99
89) n-Butylbenzene	13.621	91	32511	3.662	ug/l #	70
90) Hexachloroethane	13.895	117	12051	6.010	ug/l #	7
92) 1,2-Dibromo-3-Chloropr...	14.304	75	557	2.044	ug/l #	31
95) Naphthalene	15.145	128	17416	7.384	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.352	180	980	4.838	ug/l #	1

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

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QLast Update : Fri Jan 31 16:50:06 2025
Response via : Initial Calibration

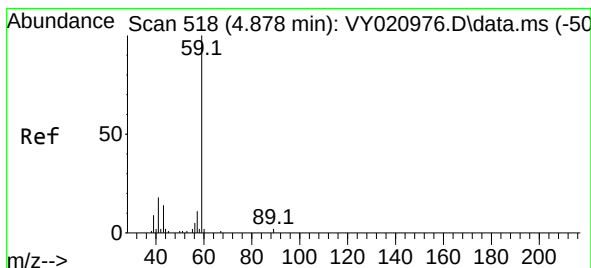
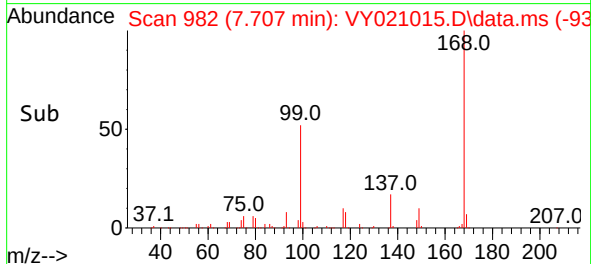
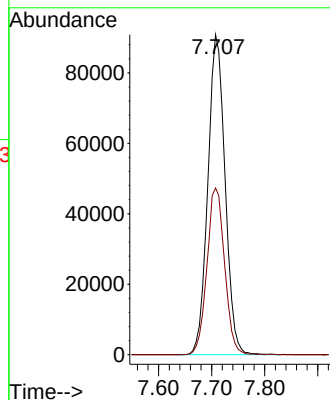
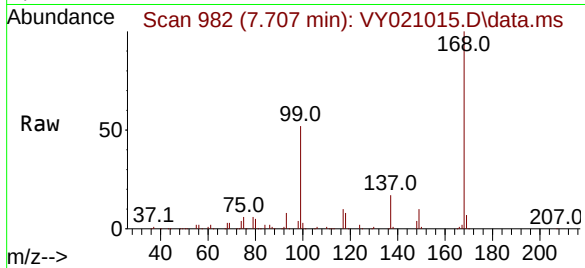




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

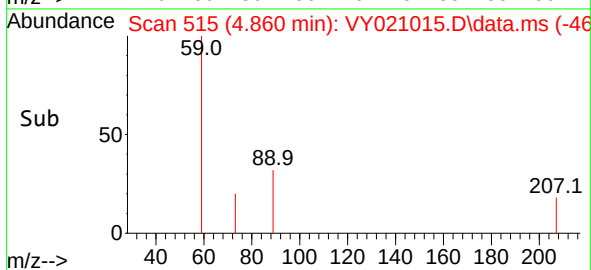
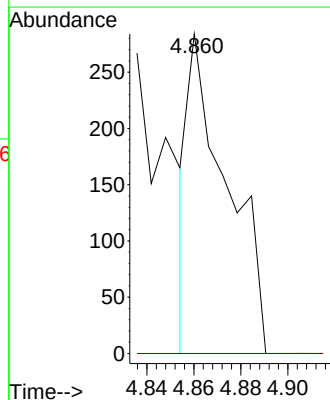
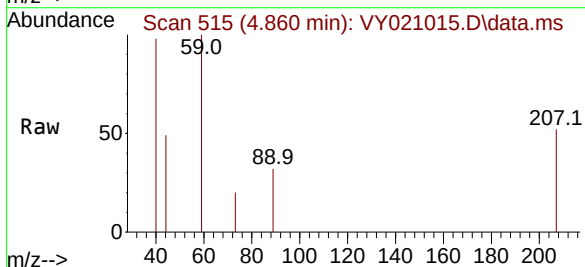
Instrument :
MSVOA_Y
ClientSampleId :

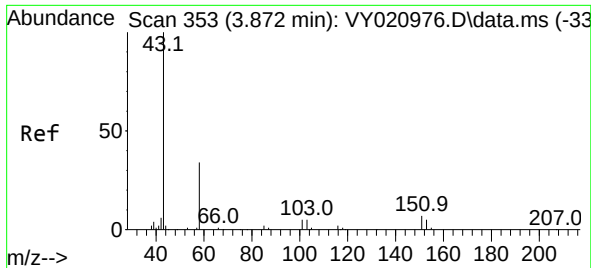
Tgt Ion:168 Resp: 204809
Ion Ratio Lower Upper
168 100
99 52.1 42.2 63.2



#11
Tert butyl alcohol
Concen: 2.559 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.018 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

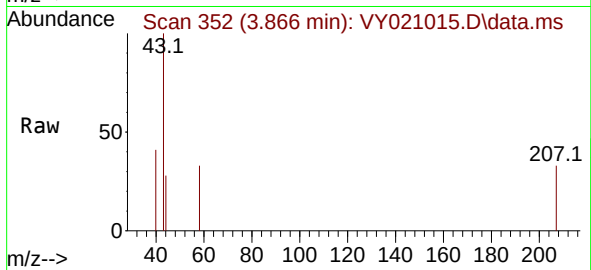
Tgt Ion: 59 Resp: 326
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



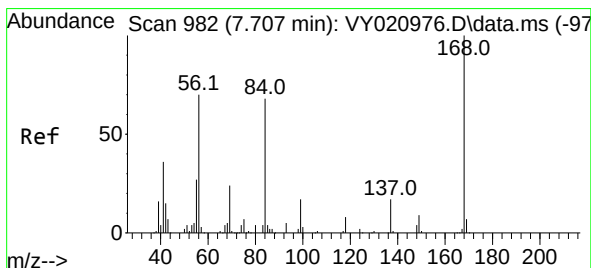
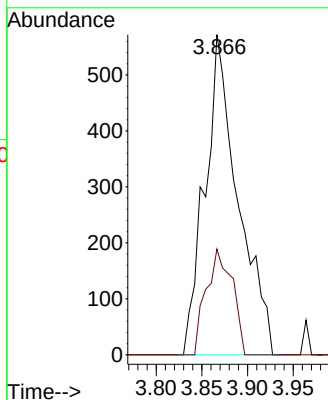
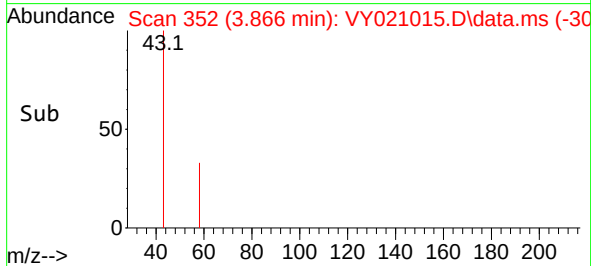


#16
Acetone
Concen: 6.071 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

Instrument :
MSVOA_Y
ClientSampleId :

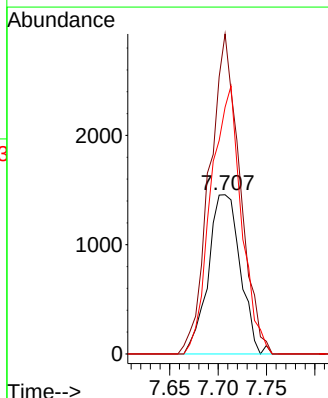
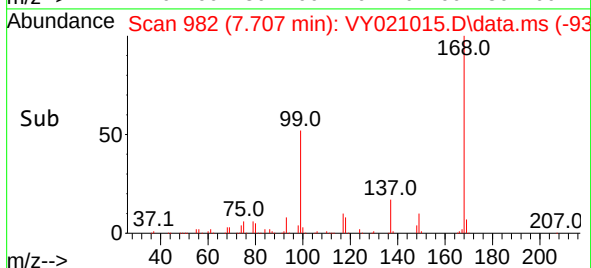
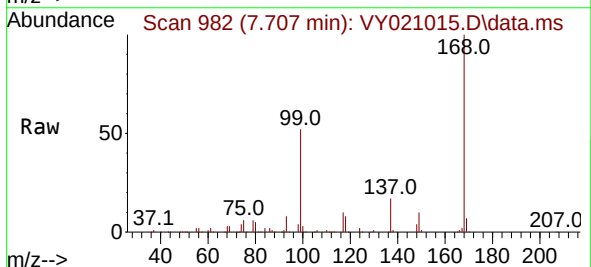


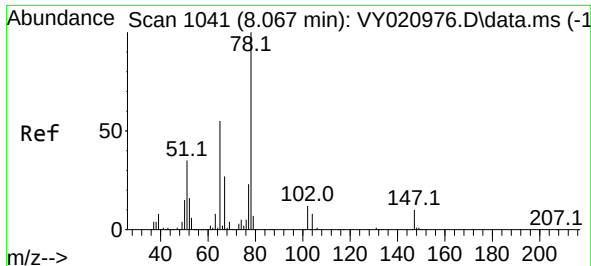
Tgt Ion: 43 Resp: 1443
Ion Ratio Lower Upper
43 100
58 33.0 28.4 42.6



#31
Cyclohexane
Concen: 1.093 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

Tgt Ion: 56 Resp: 3352
Ion Ratio Lower Upper
56 100
69 201.0 27.7 41.5#
84 155.0 77.5 116.3#





#33

1,2-Dichloroethane-d4

Concen: 62.161 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

Instrument :

MSVOA_Y

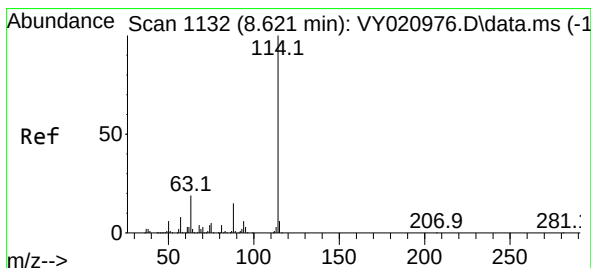
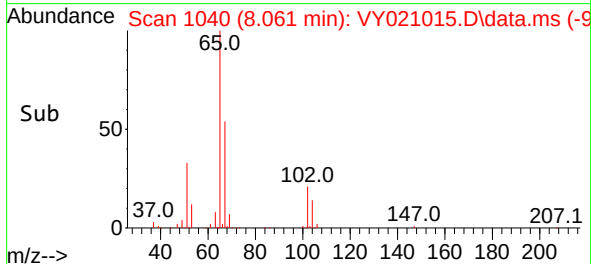
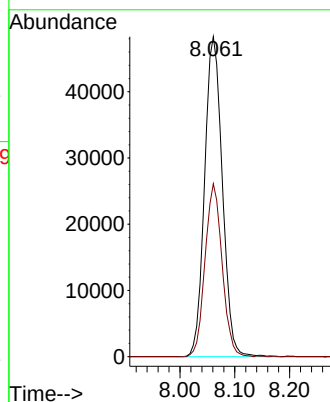
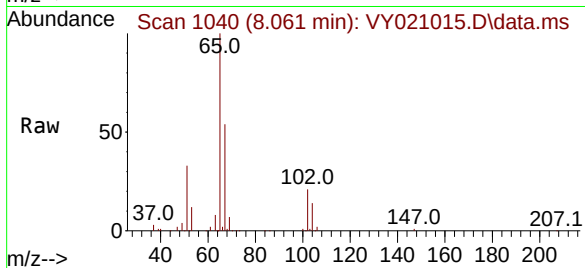
ClientSampleId :

Tgt Ion: 65 Resp: 108395

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

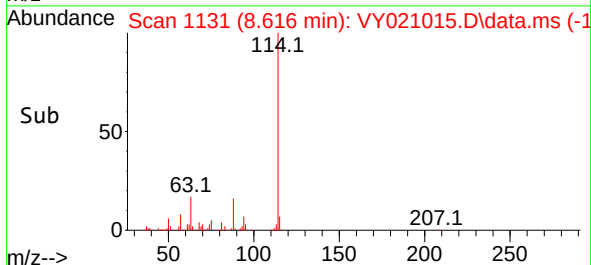
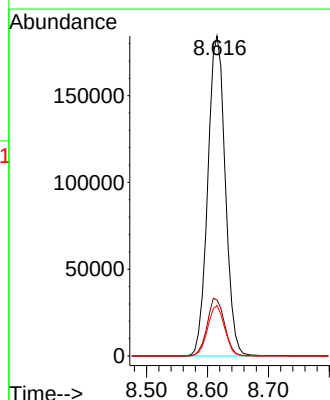
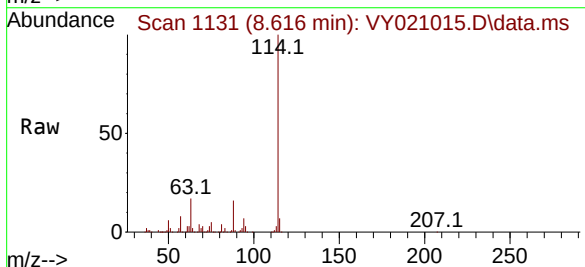
Tgt Ion: 114 Resp: 367314

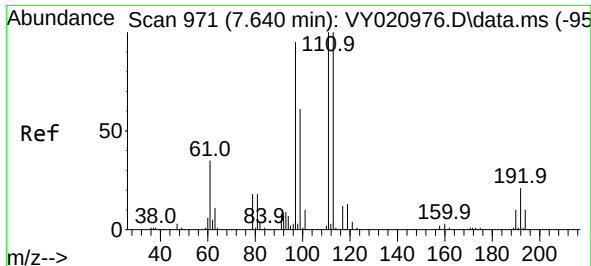
Ion Ratio Lower Upper

114 100

63 17.5 0.0 37.2

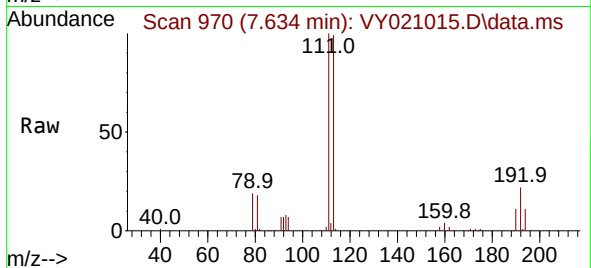
88 15.7 0.0 29.6



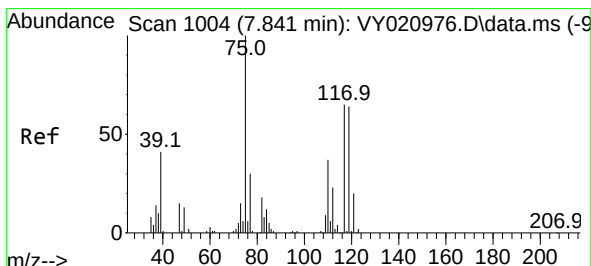
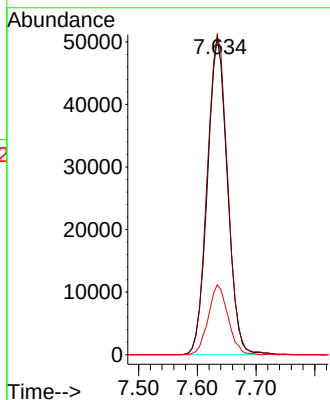
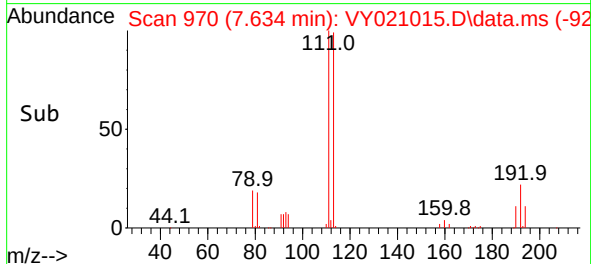


#35
Dibromofluoromethane
Concen: 54.162 ug/l
RT: 7.634 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

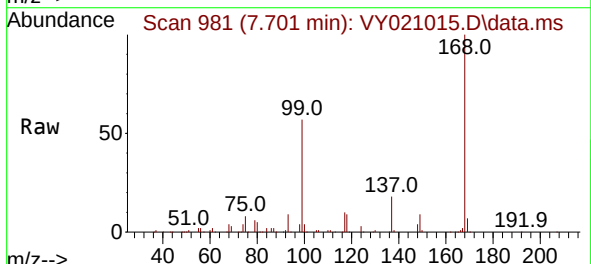
Instrument :
MSVOA_Y
ClientSampleId :



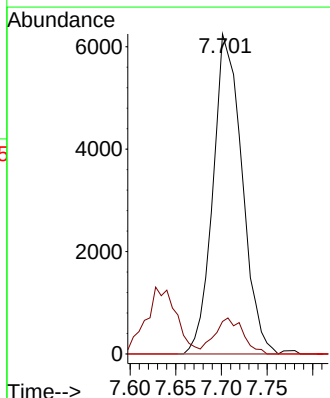
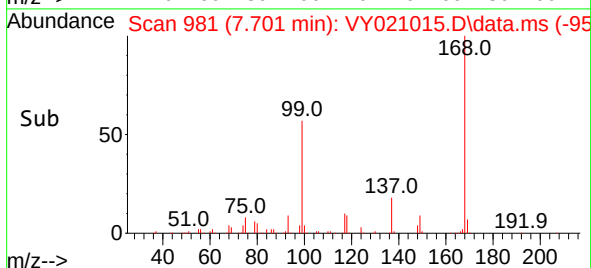
Tgt Ion:113 Resp: 119603
Ion Ratio Lower Upper
113 100
111 103.3 82.6 123.8
192 21.8 16.8 25.2

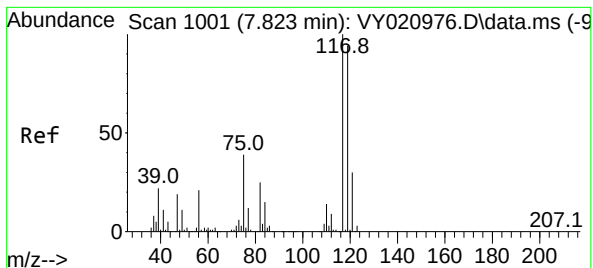


#36
1,1-Dichloropropene
Concen: 4.394 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17



Tgt Ion: 75 Resp: 13841
Ion Ratio Lower Upper
75 100
110 10.9 18.4 55.2#
77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.149 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.115 min

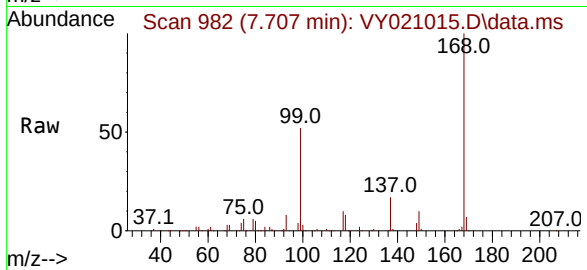
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Acq: 31 Jan 2025 17:17

Instrument :

MSVOA_Y

ClientSampleId :



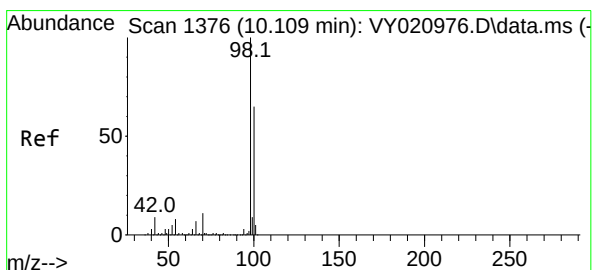
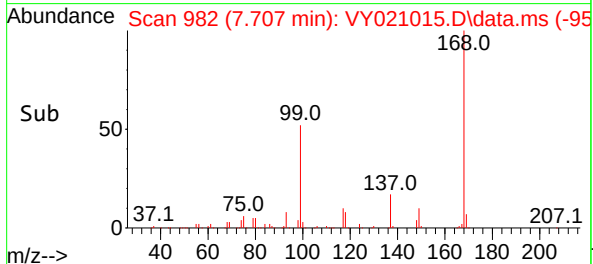
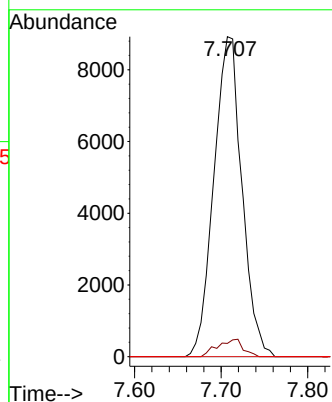
Tgt Ion:117 Resp: 20075

Ion Ratio Lower Upper

117 100

119 4.2 75.0 112.6#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 50.682 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021015.D

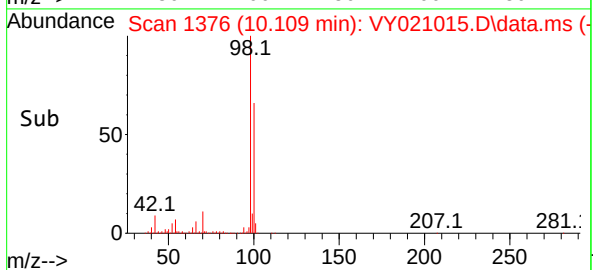
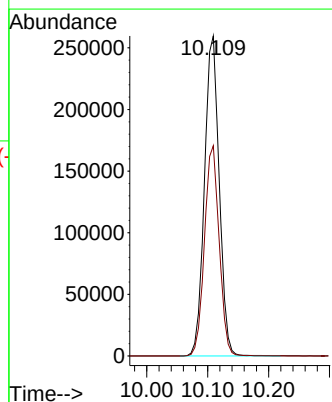
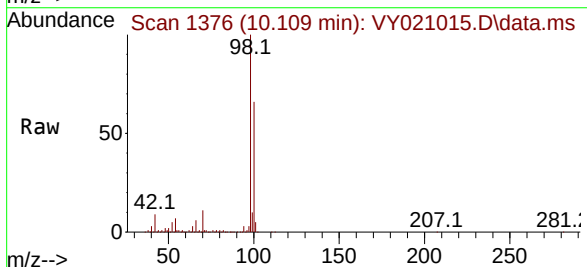
Acq: 31 Jan 2025 17:17

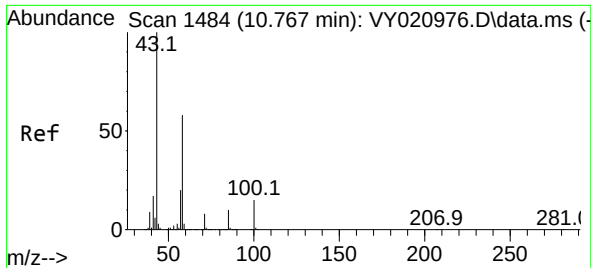
Tgt Ion: 98 Resp: 436823

Ion Ratio Lower Upper

98 100

100 65.4 52.6 79.0

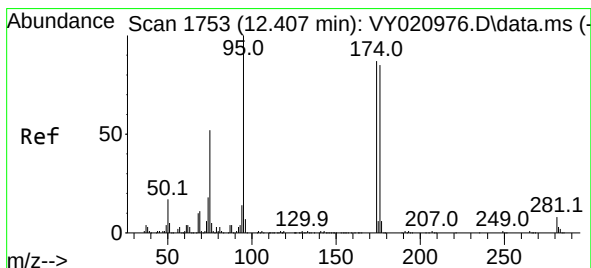
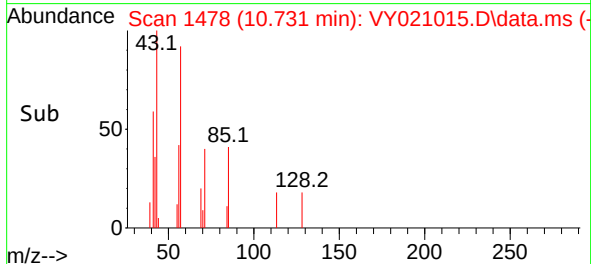
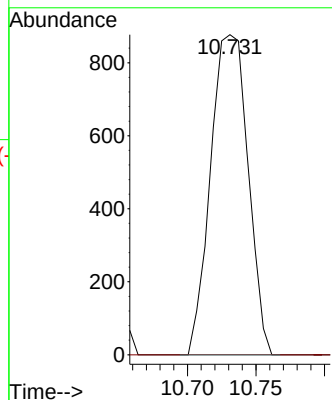
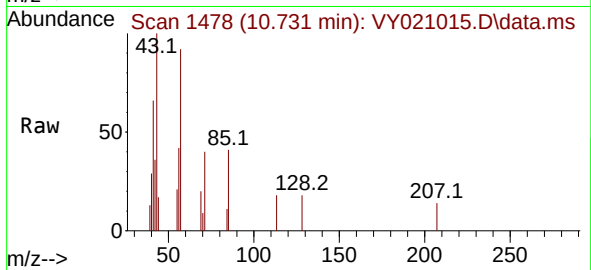




#59
2-Hexanone
Concen: 2.128 ug/l
RT: 10.731 min Scan# 1484
Delta R.T. -0.036 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

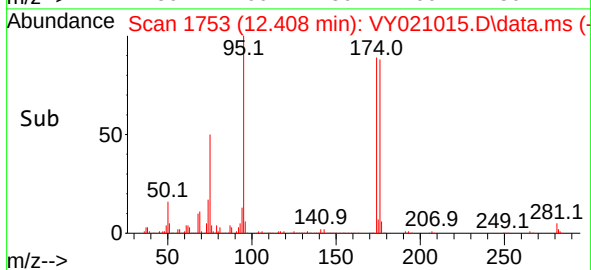
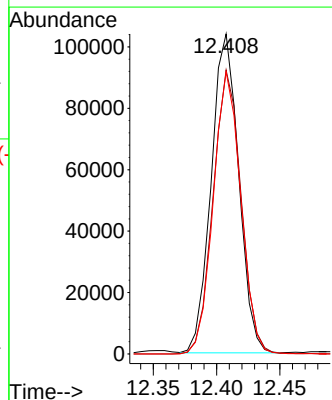
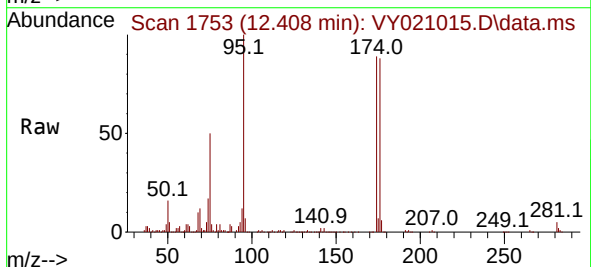
Instrument :
MSVOA_Y
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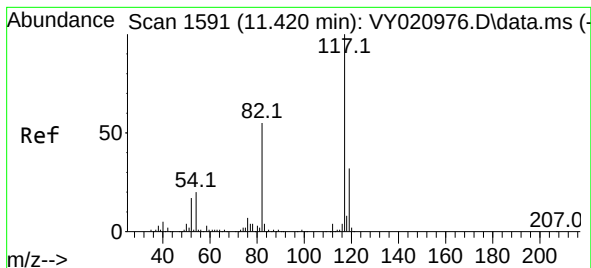
Tgt Ion: 43 Resp: 1668
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.3#



#62
4-Bromofluorobenzene
Concen: 54.298 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

Tgt Ion: 95 Resp: 157033
Ion Ratio Lower Upper
95 100
174 90.4 0.0 181.2
176 88.4 0.0 175.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

Instrument :

MSVOA_Y

ClientSampleId :

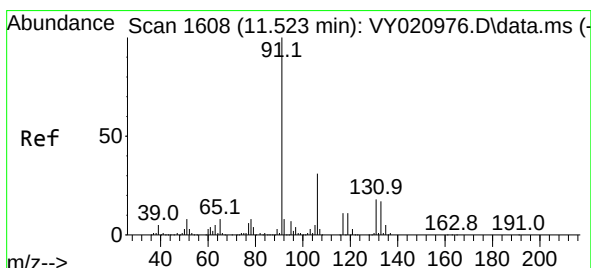
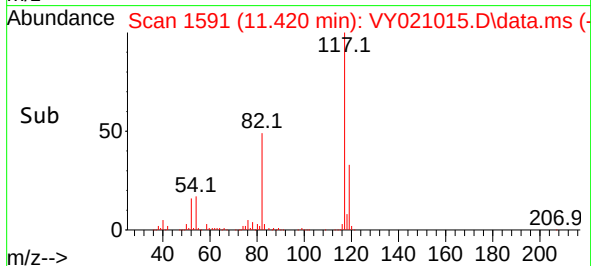
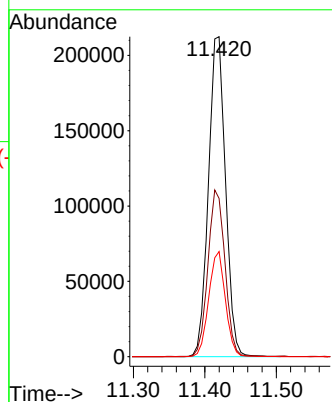
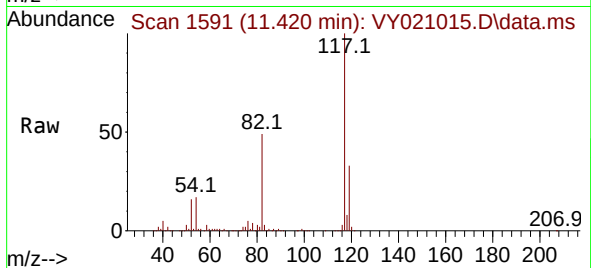
Tgt Ion:117 Resp: 352145

Ion Ratio Lower Upper

117 100

82 49.4 44.2 66.2

119 32.9 25.9 38.9



#67

Ethyl Benzene

Concen: 1.116 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY021015.D

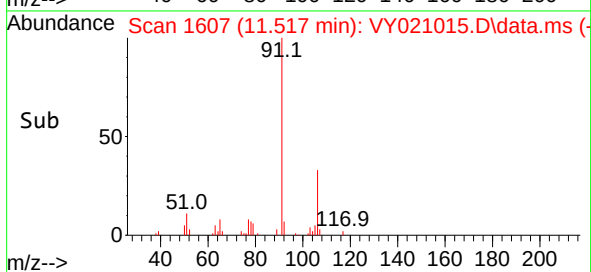
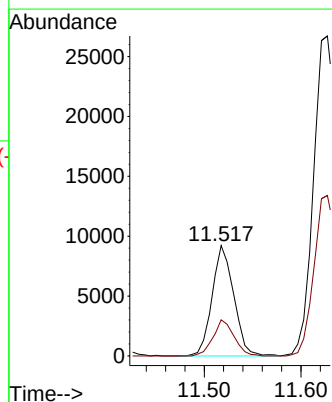
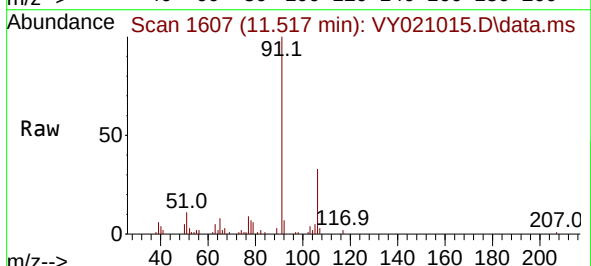
Acq: 31 Jan 2025 17:17

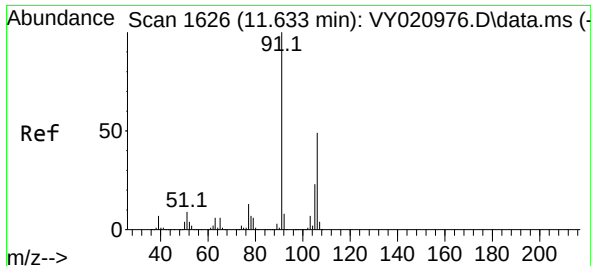
Tgt Ion: 91 Resp: 14333

Ion Ratio Lower Upper

91 100

106 32.7 24.9 37.3

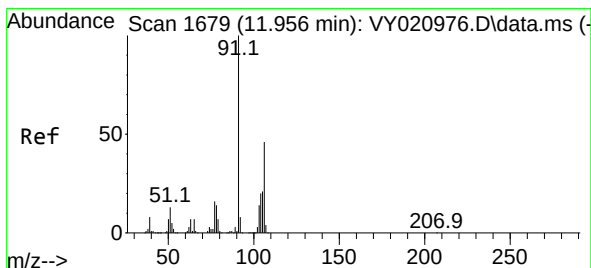
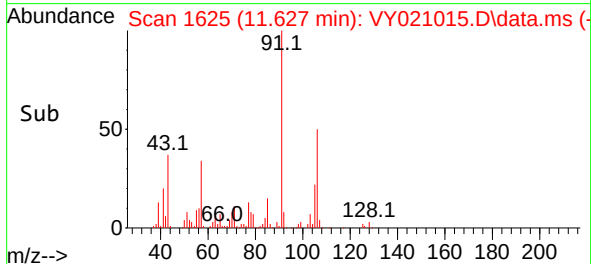
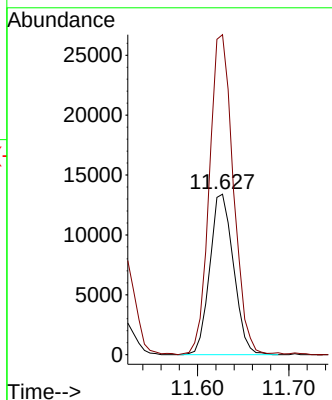
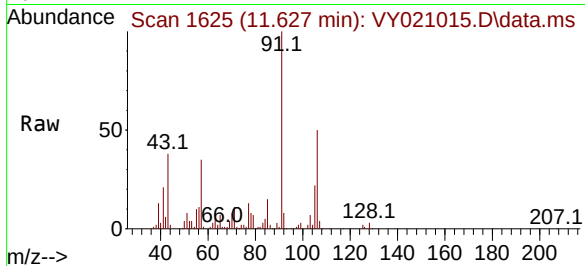




#68
m/p-Xylenes
Concen: 4.890 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

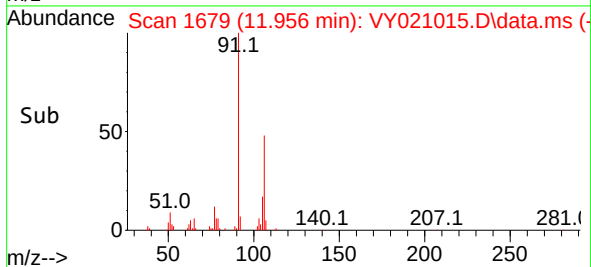
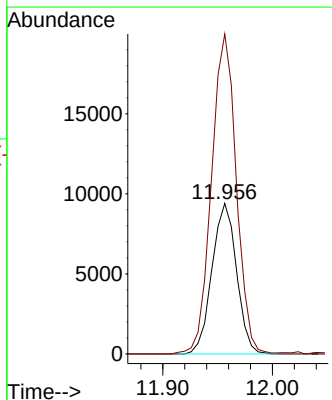
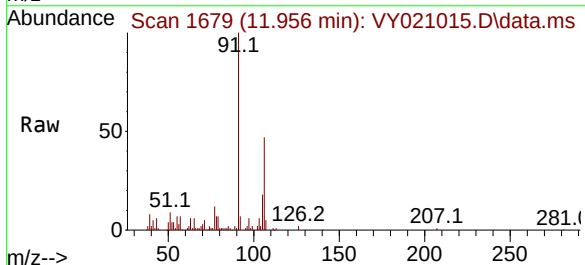
Instrument :
MSVOA_Y
ClientSampleId :

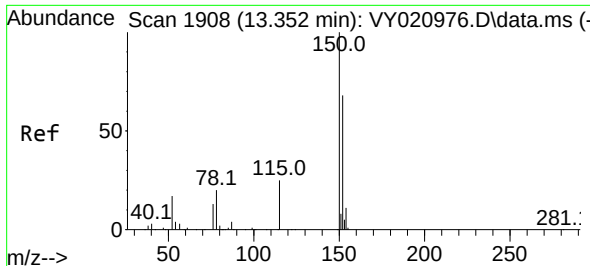
Tgt Ion:106 Resp: 24137
Ion Ratio Lower Upper
106 100
91 202.0 160.0 240.0



#69
o-Xylene
Concen: 3.190 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.000 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

Tgt Ion:106 Resp: 14634
Ion Ratio Lower Upper
106 100
91 214.6 105.8 317.6

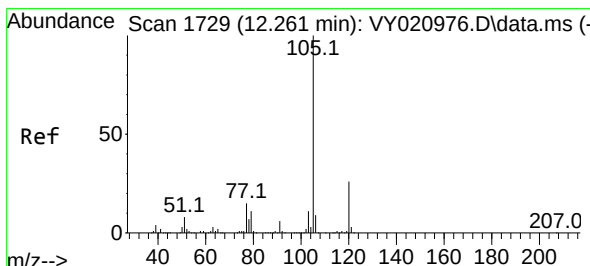
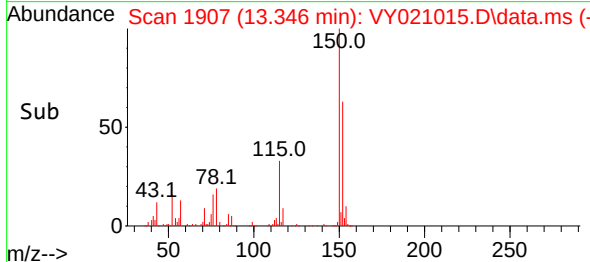
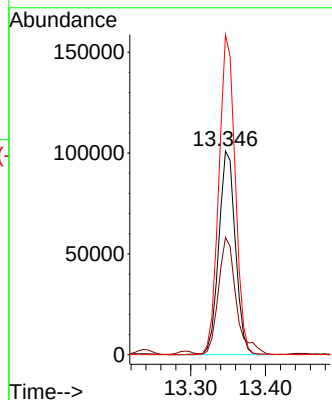
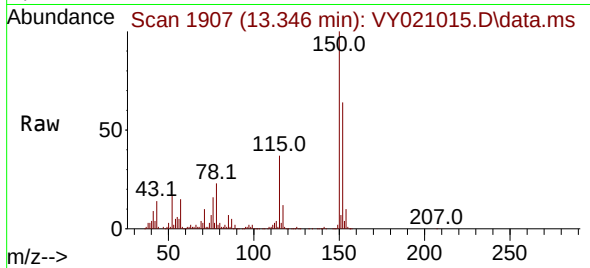




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

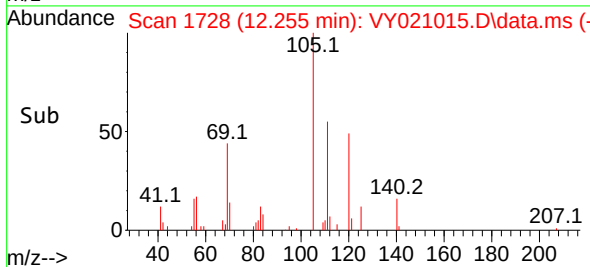
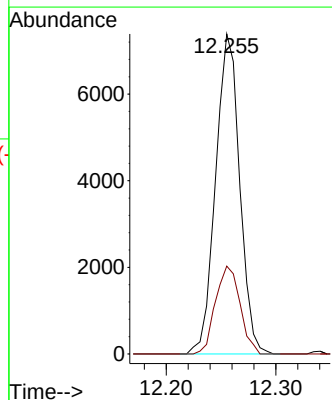
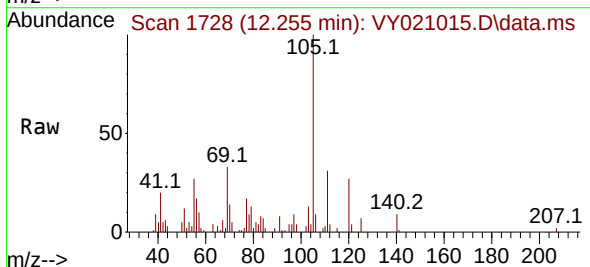
Instrument :
 MSVOA_Y
 ClientSampleId :

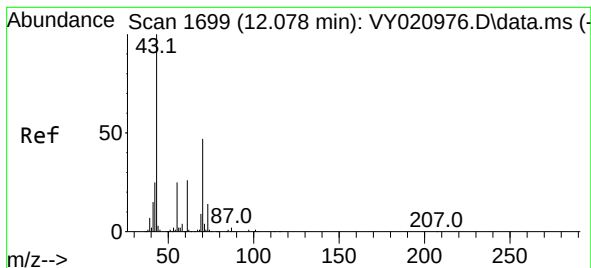
Tgt Ion:152 Resp: 156100
 Ion Ratio Lower Upper
 152 100
 115 61.2 28.4 85.2
 150 154.4 0.0 342.8



#73
 Isopropylbenzene
 Concen: 1.027 ug/l
 RT: 12.255 min Scan# 1728
 Delta R.T. -0.006 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

Tgt Ion:105 Resp: 11258
 Ion Ratio Lower Upper
 105 100
 120 28.0 13.4 40.2





#74

N-amy1 acetate

Concen: 6.335 ug/l

RT: 12.048 min Scan# 1

Delta R.T. -0.030 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 43 Resp: 12646

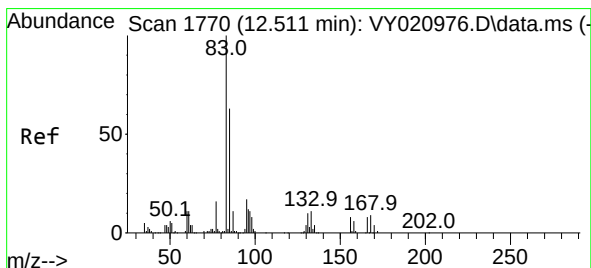
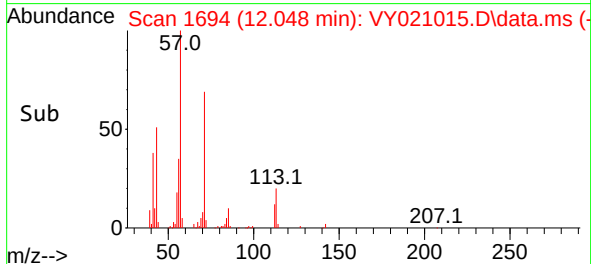
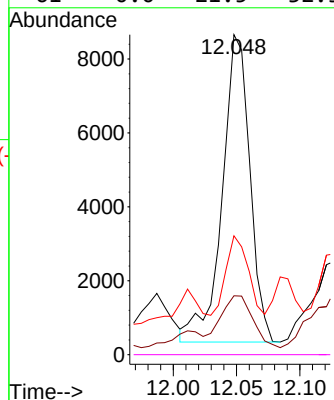
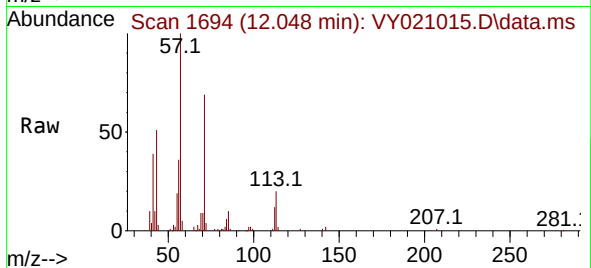
Ion Ratio Lower Upper

43 100

70 19.7 39.3 58.9#

55 20.3 22.3 33.5#

61 0.0 21.5 32.3#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.510 ug/l

RT: 12.456 min Scan# 1761

Delta R.T. -0.055 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

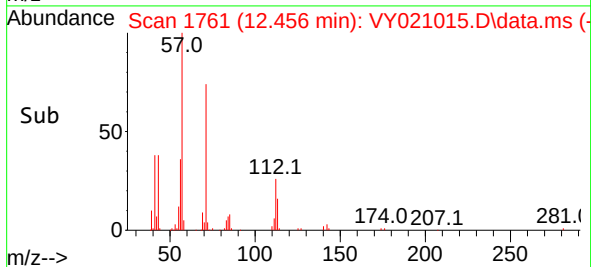
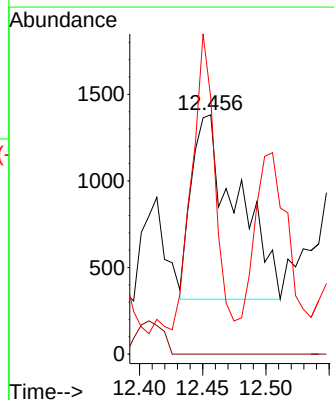
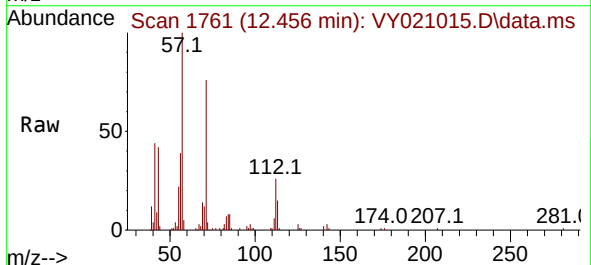
Tgt Ion: 83 Resp: 2672

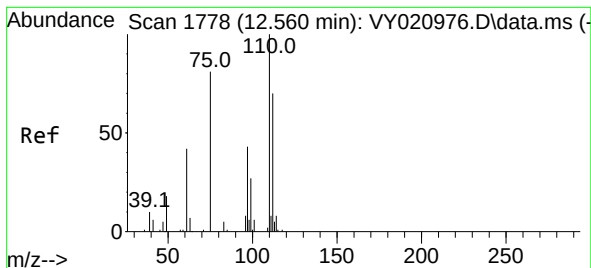
Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 0.0 31.9 95.9#

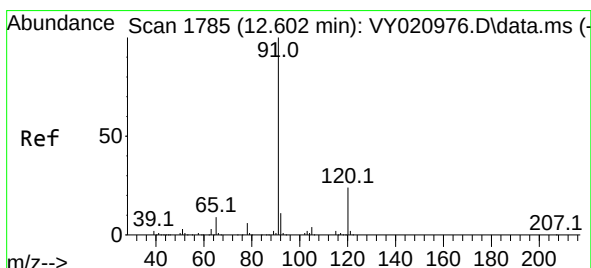
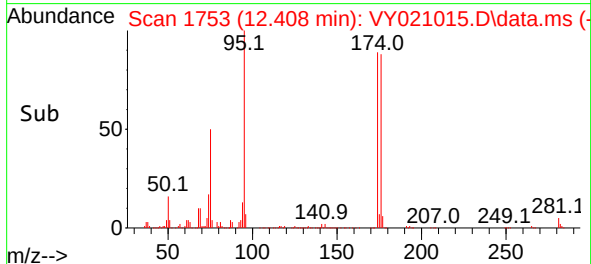
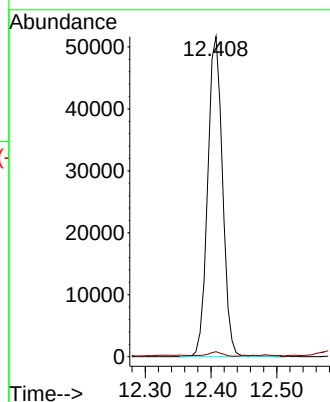
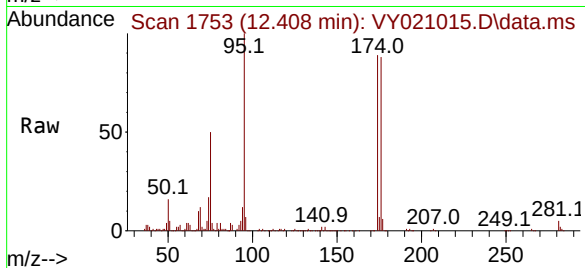




#76
1,2,3-Trichloropropane
Concen: 65.443 ug/l
RT: 12.408 min Scan# 1778
Delta R.T. -0.152 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

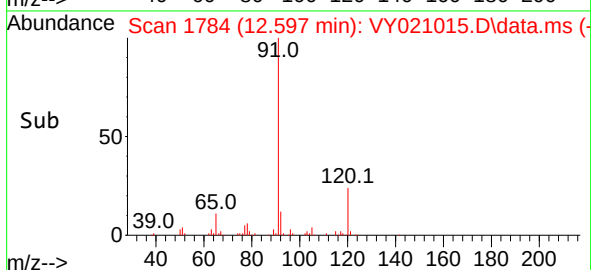
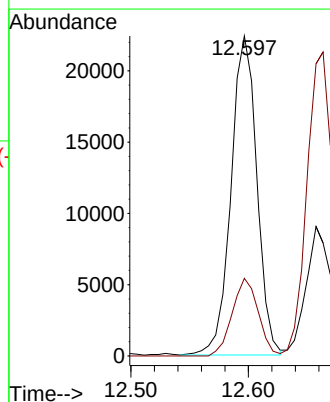
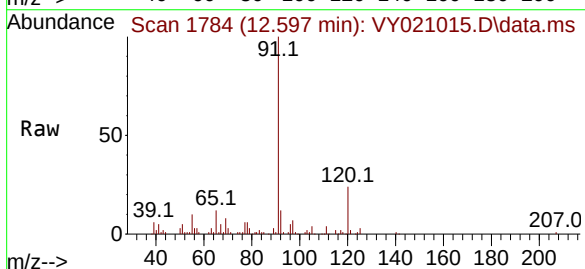
Instrument :
MSVOA_Y
ClientSampleId :

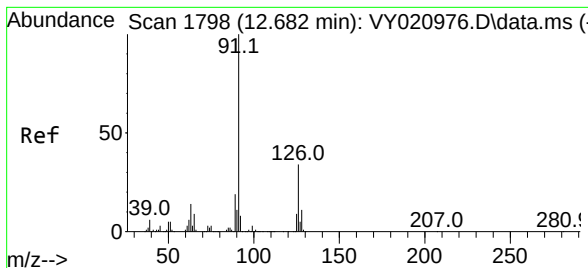
Tgt Ion: 75 Resp: 80869
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#78
n-propylbenzene
Concen: 2.662 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

Tgt Ion: 91 Resp: 34210
Ion Ratio Lower Upper
91 100
120 24.5 11.8 35.4

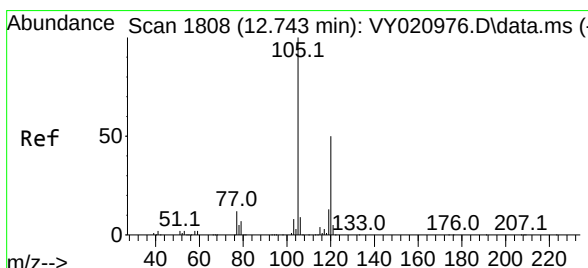
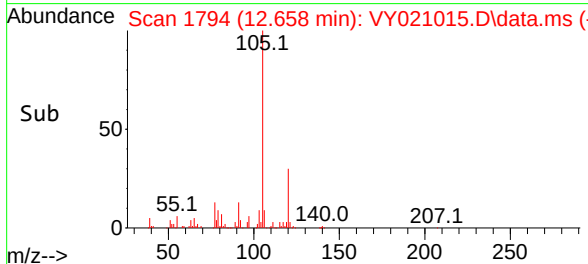
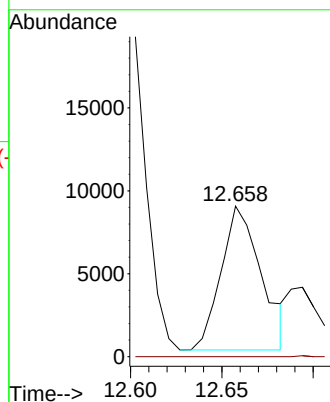
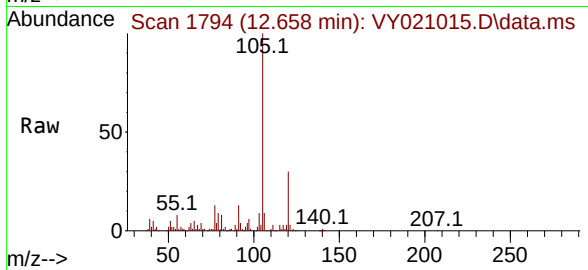




#79
2-Chlorotoluene
Concen: 1.809 ug/l
RT: 12.658 min Scan# 1794
Delta R.T. -0.024 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

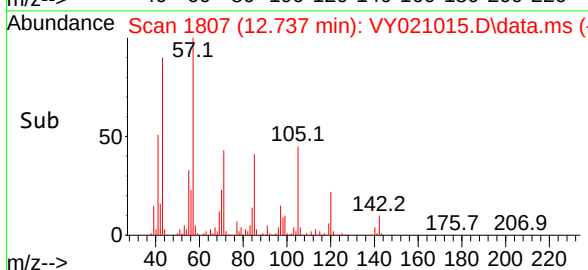
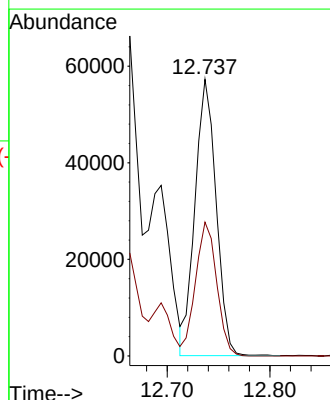
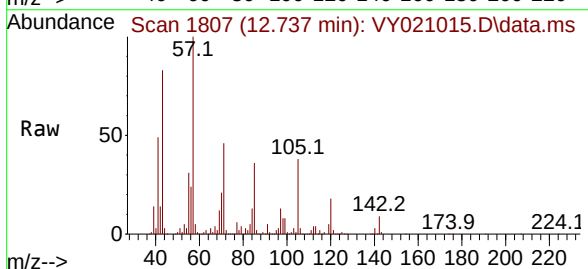
Instrument :
MSVOA_Y
ClientSampleId :

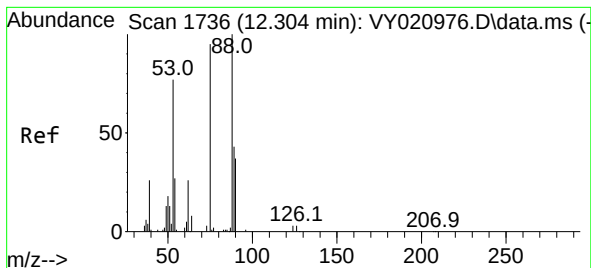
Tgt Ion: 91 Resp: 13240
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#



#80
1,3,5-Trimethylbenzene
Concen: 9.112 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

Tgt Ion: 105 Resp: 81842
Ion Ratio Lower Upper
105 100
120 48.7 24.3 72.9

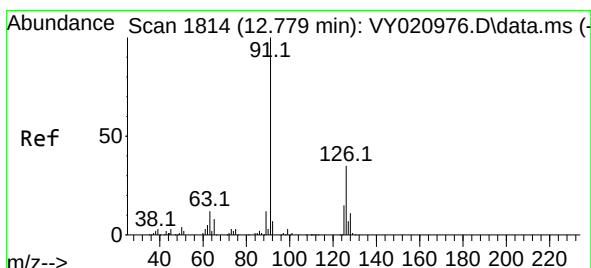
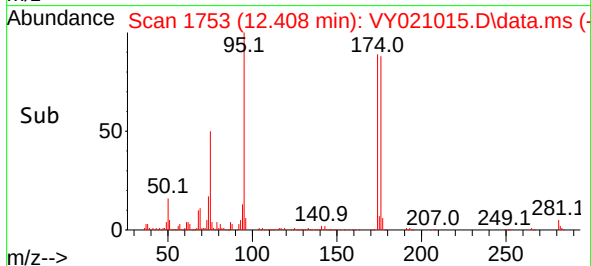
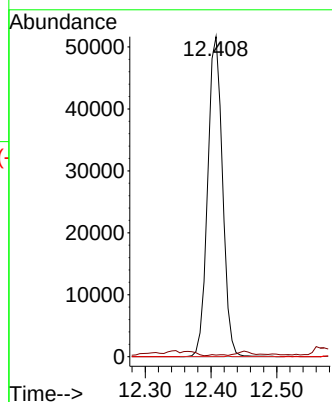
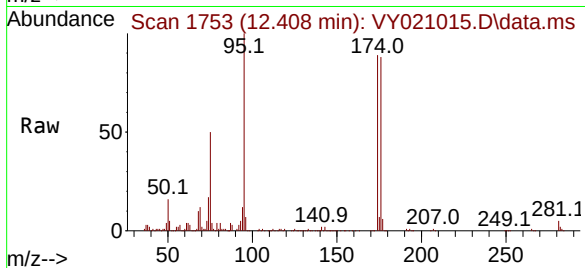




#81
 trans-1,4-Dichloro-2-butene
 Concen: 135.847 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

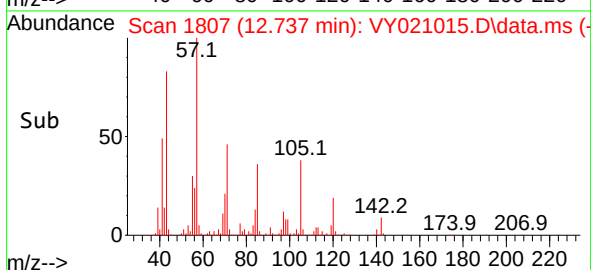
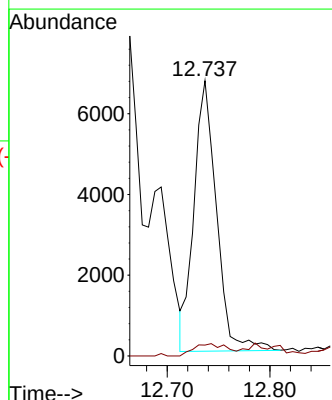
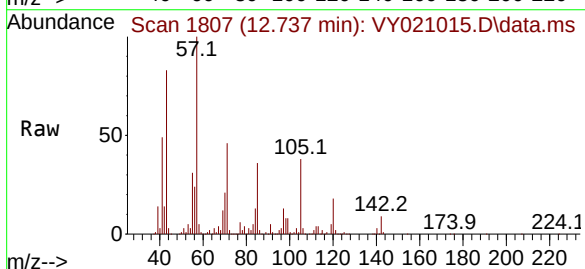
Instrument :
 MSVOA_Y
 ClientSampleId :

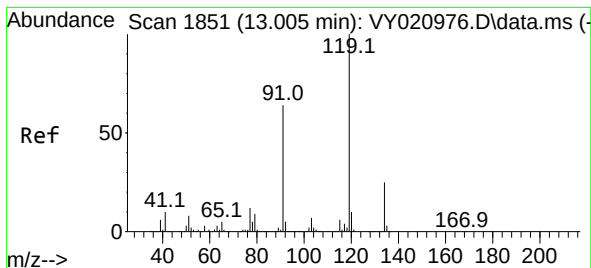
Tgt Ion: 75 Resp: 80869
 Ion Ratio Lower Upper
 75 100
 53 0.3 68.6 103.0#
 89 0.0 38.1 57.1#



#82
 4-Chlorotoluene
 Concen: 1.365 ug/l
 RT: 12.737 min Scan# 1807
 Delta R.T. -0.042 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

Tgt Ion: 91 Resp: 10230
 Ion Ratio Lower Upper
 91 100
 126 6.7 17.3 52.0#





#83

tert-Butylbenzene

Concen: 4.912 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.043 min

Lab File: VY021015.D

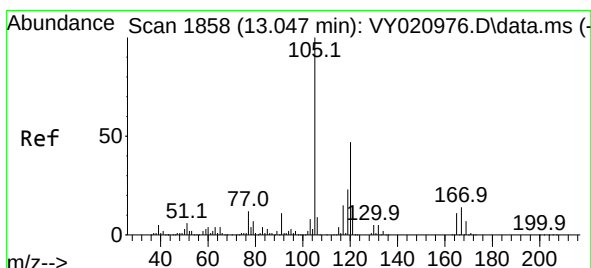
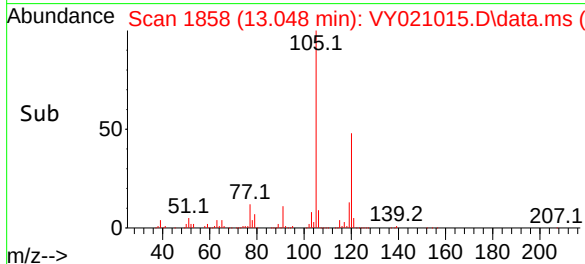
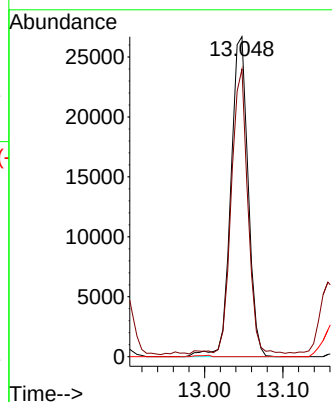
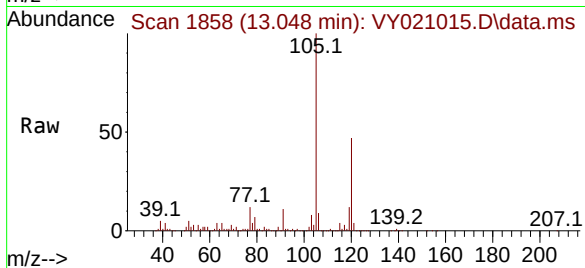
Acq: 31 Jan 2025 17:17

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:119	Resp:	40922
Ion Ratio	Lower	Upper
119	100	
91	83.9	31.4 94.0
134	0.0	13.1 39.1#



#84

1,2,4-Trimethylbenzene

Concen: 37.288 ug/l

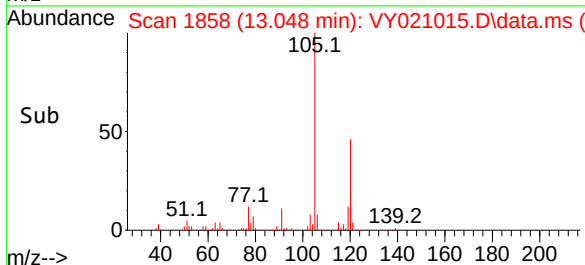
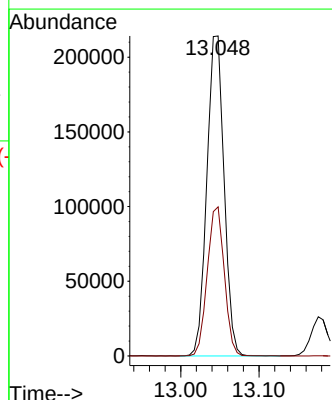
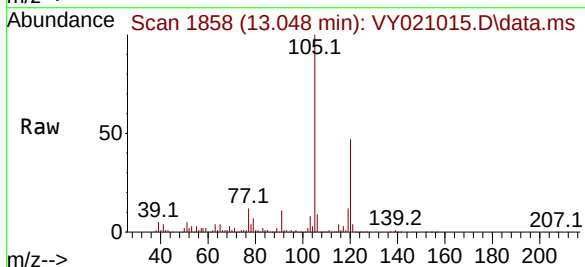
RT: 13.048 min Scan# 1858

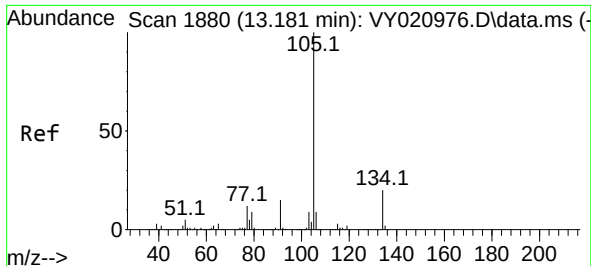
Delta R.T. 0.000 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

Tgt Ion:105	Resp:	327152
Ion Ratio	Lower	Upper
105	100	
120	46.0	22.7 68.0

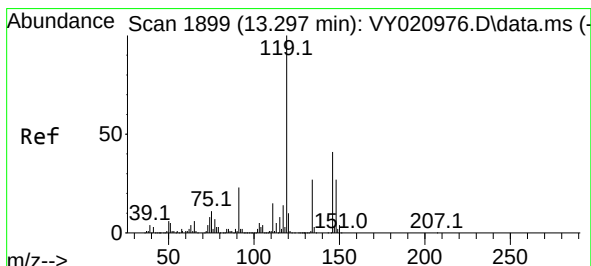
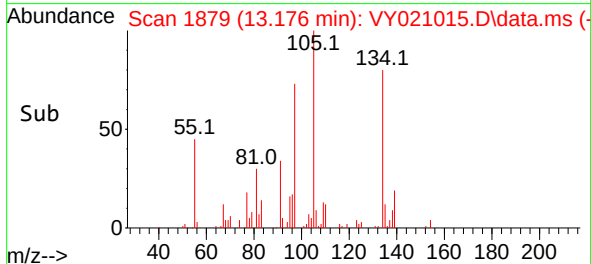
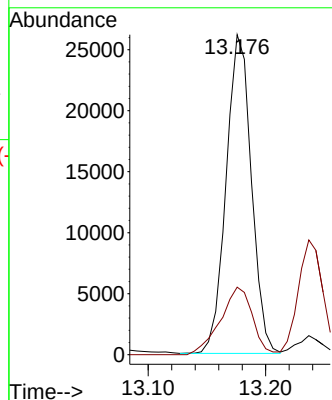
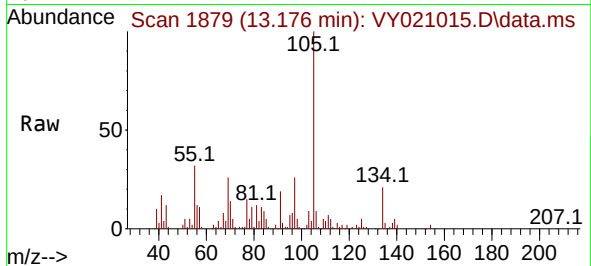




#85
 sec-Butylbenzene
 Concen: 3.303 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. -0.006 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

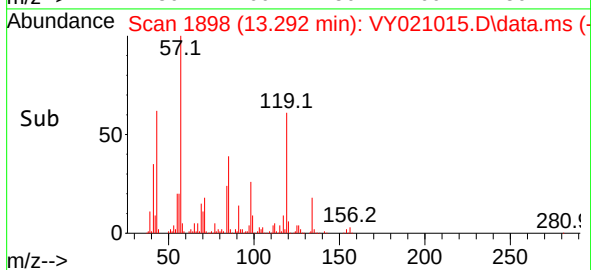
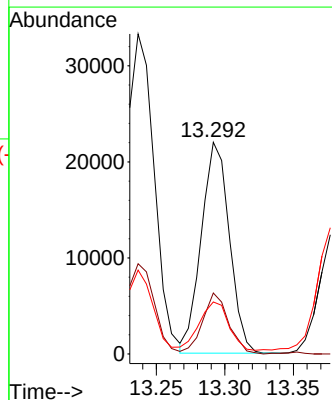
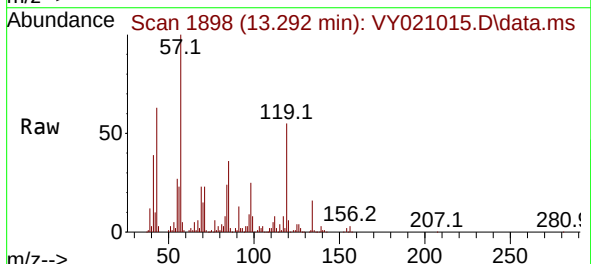
Instrument :
 MSVOA_Y
 ClientSampleId :

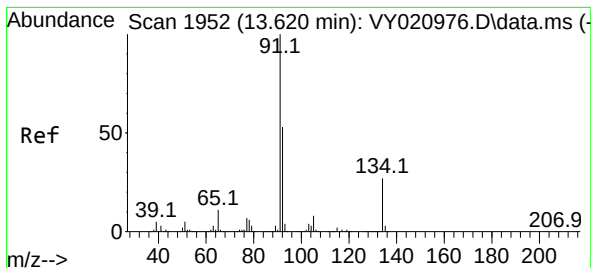
Tgt Ion:105 Resp: 38953
 Ion Ratio Lower Upper
 105 100
 134 26.7 10.3 30.8



#86
 p-Isopropyltoluene
 Concen: 3.163 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. -0.006 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

Tgt Ion:119 Resp: 31352
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.1 39.3
 91 23.9 11.5 34.5





#89

n-Butylbenzene

Concen: 3.662 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VY021015.D

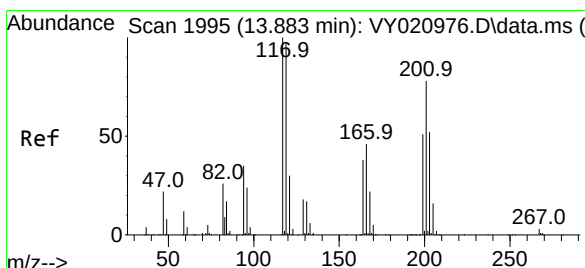
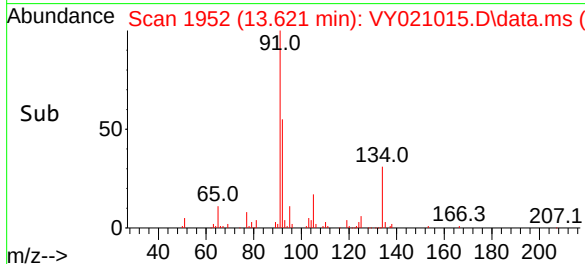
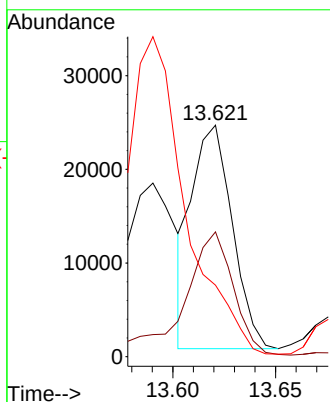
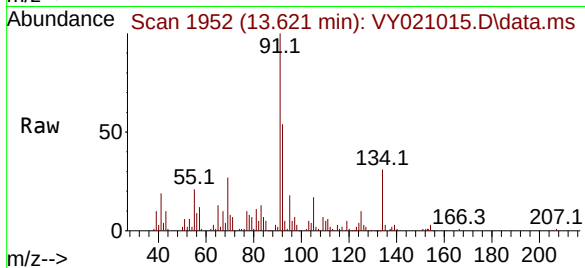
Acq: 31 Jan 2025 17:17

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	91	Resp:	32511
Ion	Ratio	Lower	Upper
91	100		
92	66.8	26.7	80.1
134	0.0	13.7	41.1#



#90

Hexachloroethane

Concen: 6.010 ug/l

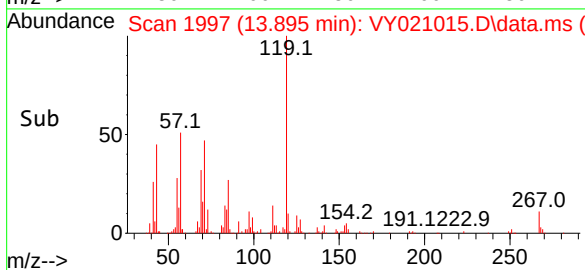
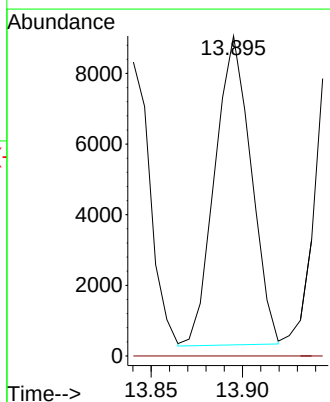
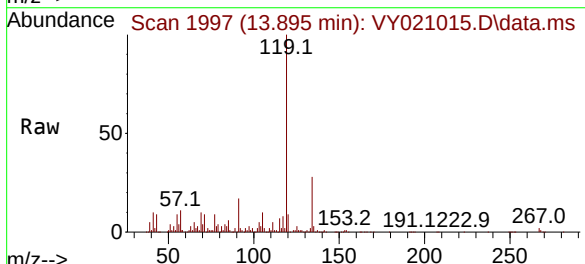
RT: 13.895 min Scan# 1997

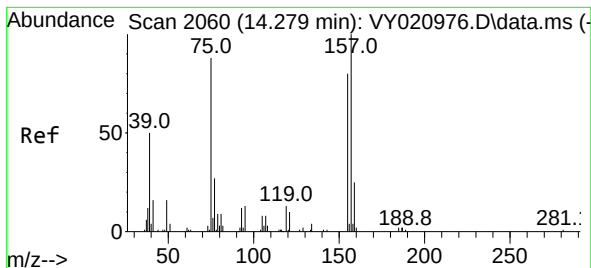
Delta R.T. 0.013 min

Lab File: VY021015.D

Acq: 31 Jan 2025 17:17

Tgt Ion:	117	Resp:	12051
Ion	Ratio	Lower	Upper
117	100		
201	0.0	42.5	127.5#

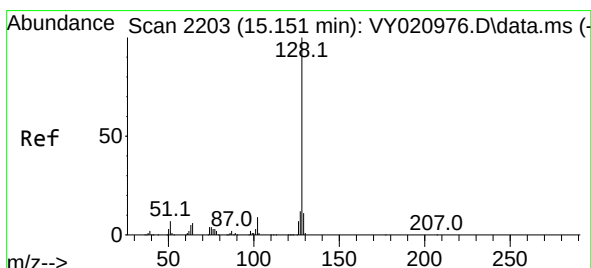
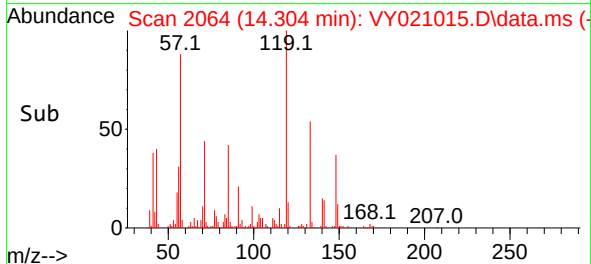
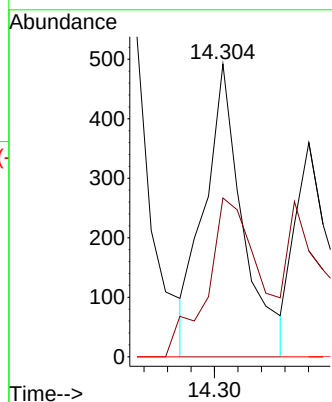
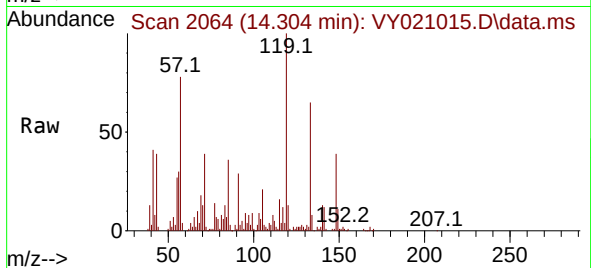




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.044 ug/l
RT: 14.304 min Scan# 2064
Delta R.T. 0.025 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

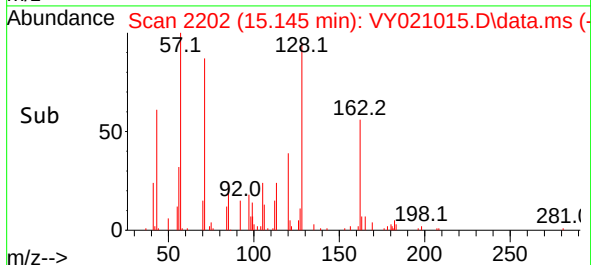
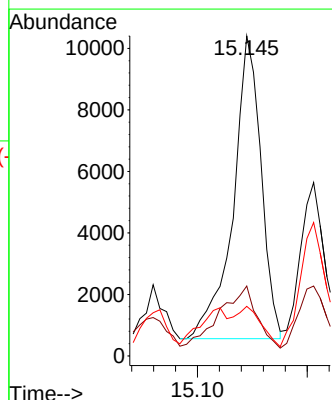
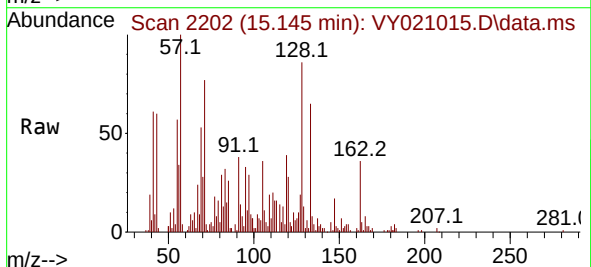
Instrument :
MSVOA_Y
ClientSampleId :

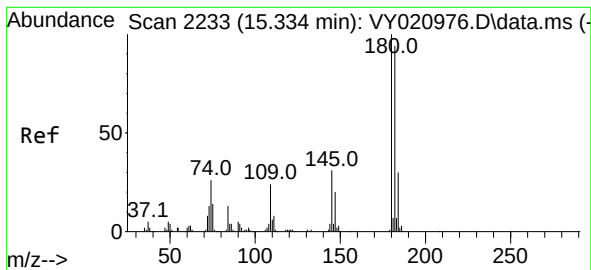
Tgt Ion: 75 Resp: 557
Ion Ratio Lower Upper
75 100
155 74.1 45.9 137.6
157 0.0 59.3 177.9#



#95
Naphthalene
Concen: 7.384 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.006 min
Lab File: VY021015.D
Acq: 31 Jan 2025 17:17

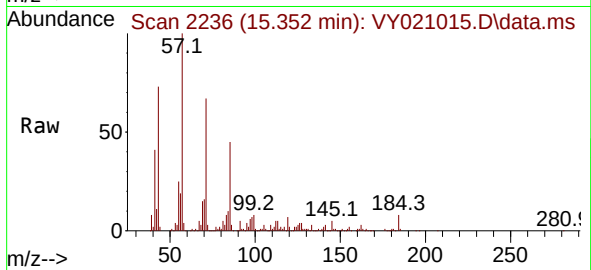
Tgt Ion: 128 Resp: 17416
Ion Ratio Lower Upper
128 100
127 27.2 10.2 15.4#
129 10.6 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 4.838 ug/l
 RT: 15.352 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VY021015.D
 Acq: 31 Jan 2025 17:17

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 980
 Ion Ratio Lower Upper
 180 100
 182 14.6 47.7 143.1#
 145 1773.1 15.6 46.7#

