

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111025\
 Data File : VY023717.D
 Acq On : 10 Nov 2025 16:14
 Operator : SY/MD
 Sample : Q3593-05
 Misc : 5.61g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 A-LAW-25-0167-0175-COMP

Quant Time: Nov 11 02:08:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

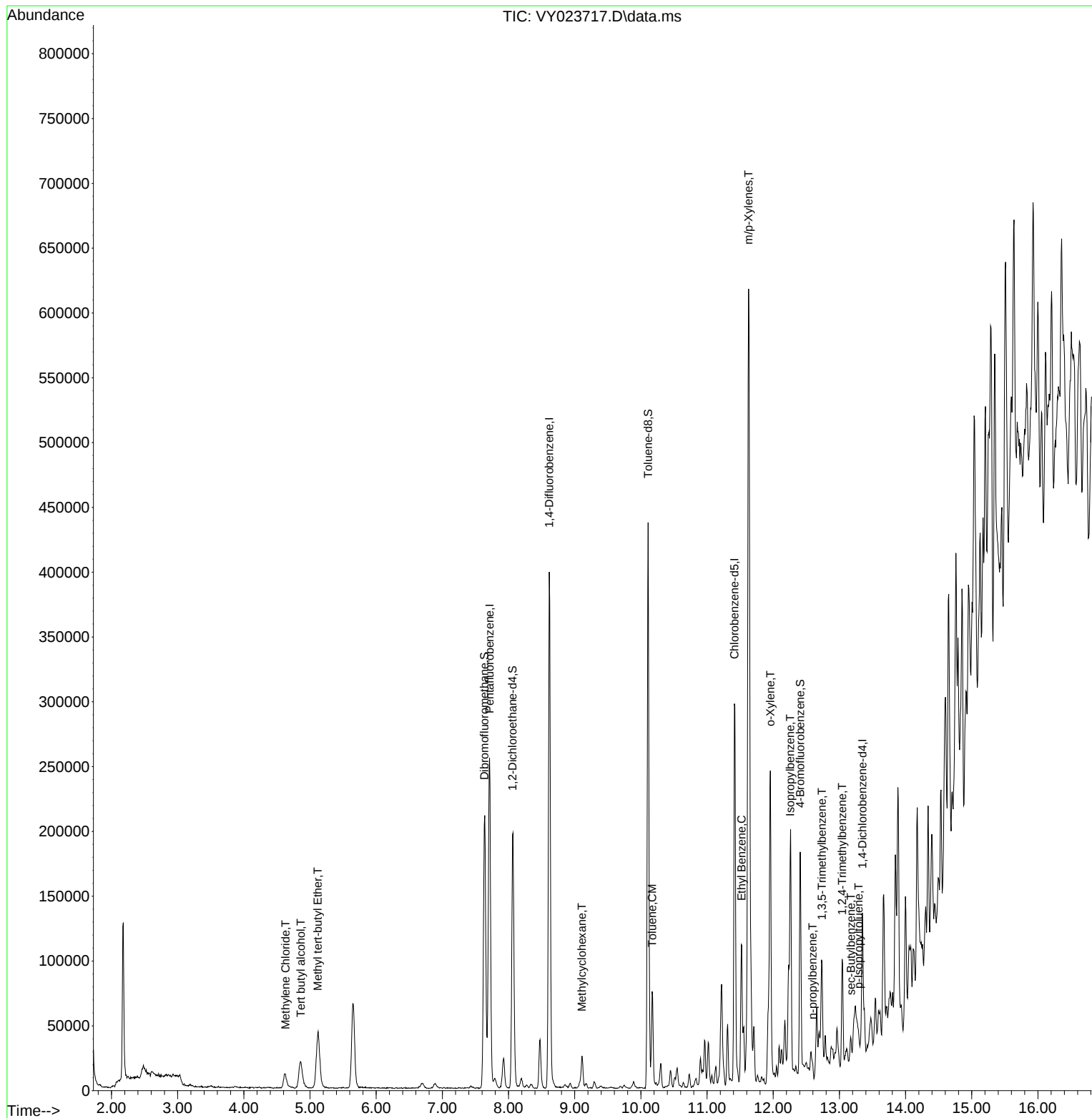
Internal Standards						
1) Pentafluorobenzene	7.713	168	204413	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	353046	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	170922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	30280	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	157177	91.952	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	183.900%#
35) Dibromofluoromethane	7.634	113	153191	70.618	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	141.240%
50) Toluene-d8	10.109	98	281375	34.829	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	69.660%
62) 4-Bromofluorobenzene	12.408	95	48269	18.097	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	36.200%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	38265	300.910	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	70797	16.155	ug/l	99
20) Methylene Chloride	4.628	84	8603	3.910	ug/l	95
39) Methylcyclohexane	9.109	83	8252	2.207	ug/l #	83
52) Toluene	10.170	92	30308	5.132	ug/l	95
67) Ethyl Benzene	11.524	91	73850	12.273	ug/l	99
68) m/p-Xylenes	11.627	106	174714	72.388	ug/l	96
69) o-Xylene	11.956	106	59717	26.378	ug/l	95
73) Isopropylbenzene	12.255	105	13240	6.635	ug/l	75
78) n-propylbenzene	12.597	91	8724	3.778	ug/l	95
80) 1,3,5-Trimethylbenzene	12.737	105	12292	7.623	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	41846	26.003	ug/l	98
85) sec-Butylbenzene	13.176	105	6790	3.179	ug/l	80
86) p-Isopropyltoluene	13.292	119	5892	3.240	ug/l	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111025\
Data File : VY023717.D
Acq On : 10 Nov 2025 16:14
Operator : SY/MD
Sample : Q3593-05
Misc : 5.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
A-LAW-25-0167-0175-COMP

Quant Time: Nov 11 02:08:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

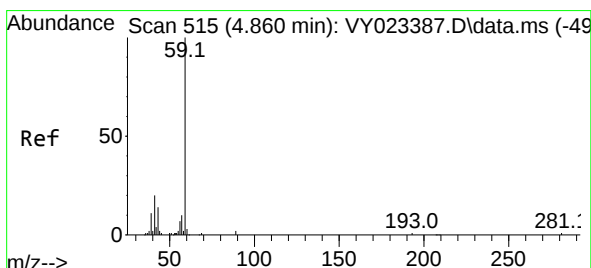
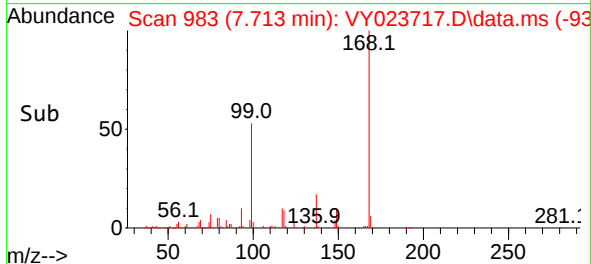
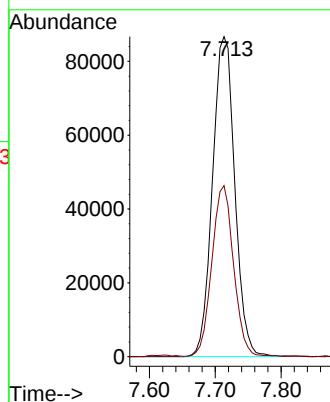
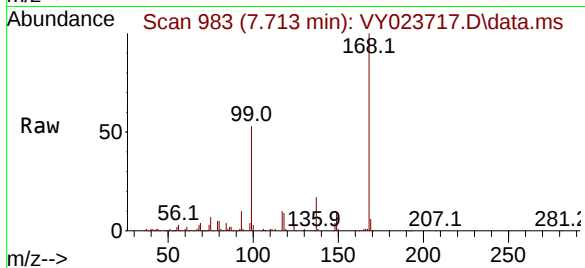




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

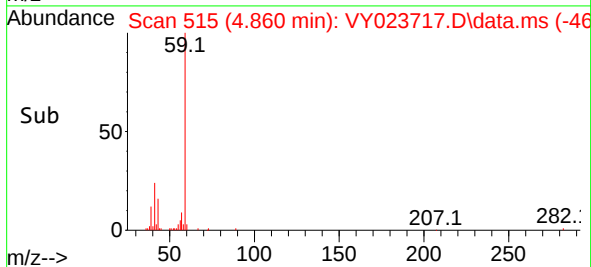
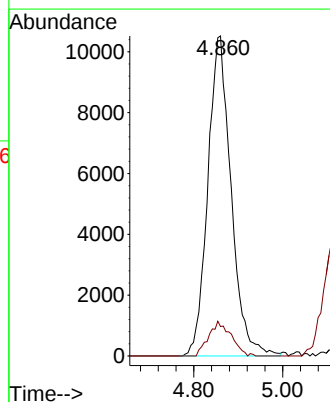
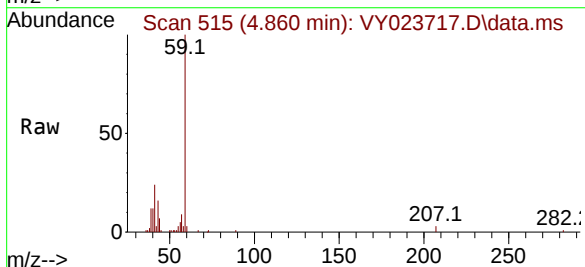
Instrument :
MSVOA_Y
ClientSampleId :
A-LAW-25-0167-0175-COMP

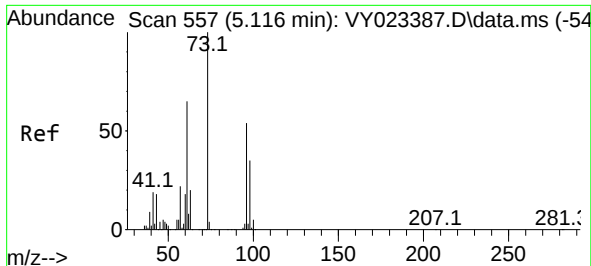
Tgt Ion:168 Resp: 204413
Ion Ratio Lower Upper
168 100
99 53.3 39.7 59.5



#11
Tert butyl alcohol
Concen: 300.910 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.000 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

Tgt Ion: 59 Resp: 38265
Ion Ratio Lower Upper
59 100
57 10.3 8.3 12.5





#19

Methyl tert-butyl Ether

Concen: 16.155 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.000 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

Instrument :

MSVOA_Y

ClientSampleId :

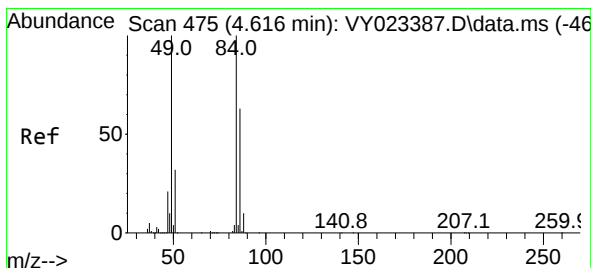
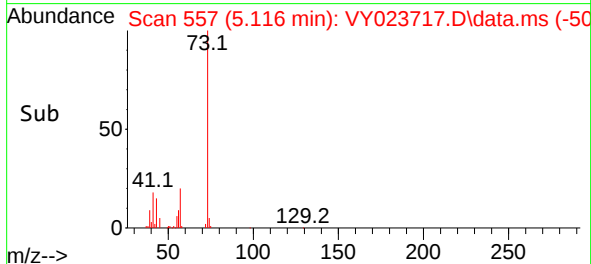
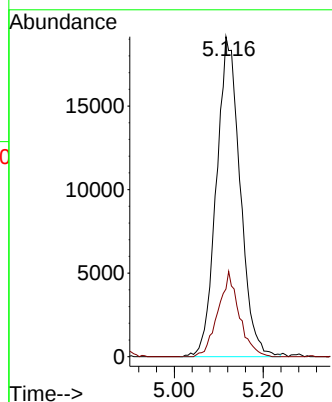
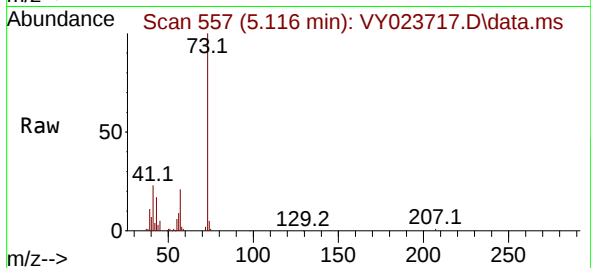
A-LAW-25-0167-0175-COMP

Tgt Ion: 73 Resp: 70797

Ion Ratio Lower Upper

73 100

57 21.2 17.4 26.0



#20

Methylene Chloride

Concen: 3.910 ug/l

RT: 4.628 min Scan# 477

Delta R.T. 0.012 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

Tgt Ion: 84 Resp: 8603

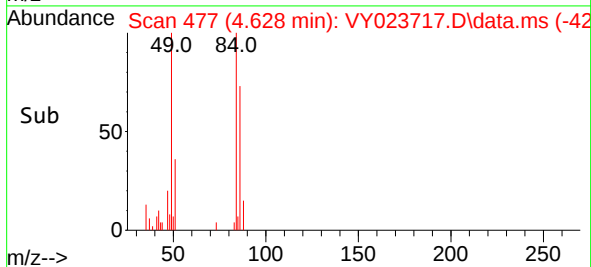
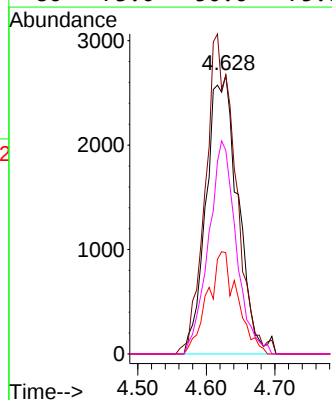
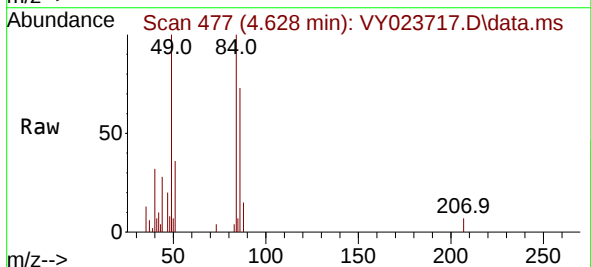
Ion Ratio Lower Upper

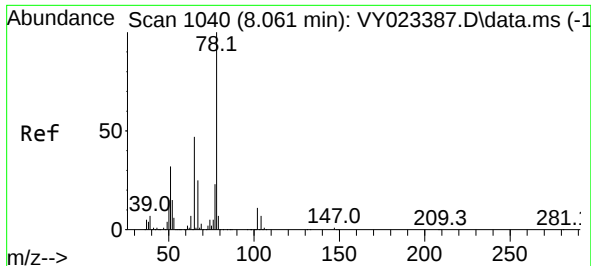
84 100

49 100.0 80.2 120.4

51 36.3 25.9 38.9

86 73.0 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 91.952 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

Instrument :

MSVOA_Y

ClientSampleId :

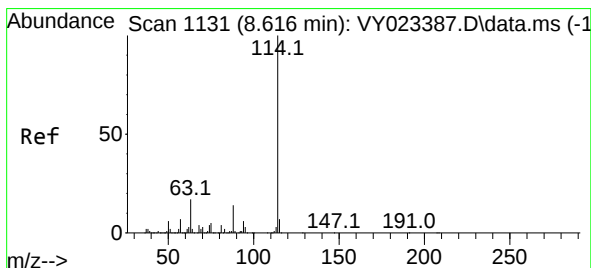
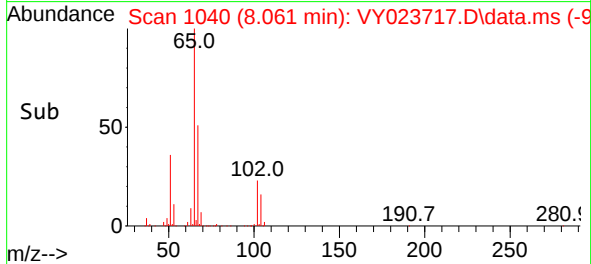
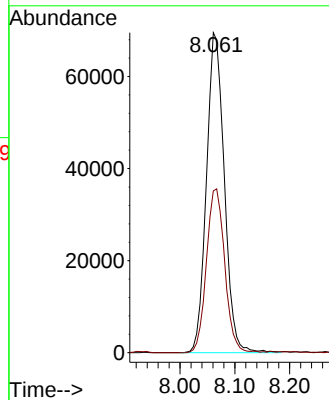
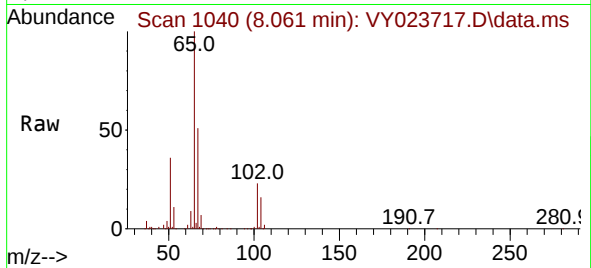
A-LAW-25-0167-0175-COMP

Tgt Ion: 65 Resp: 157177

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

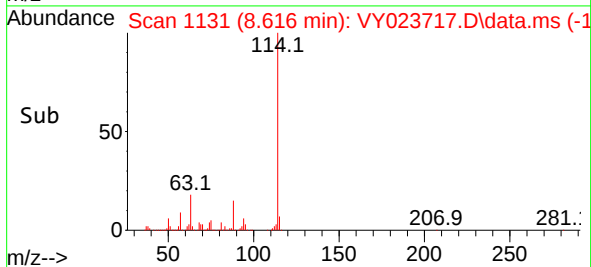
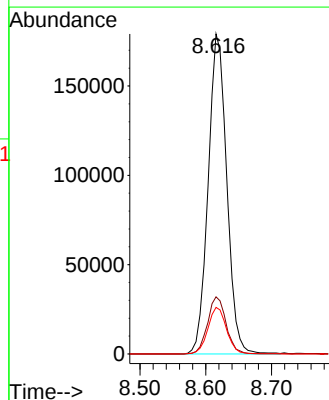
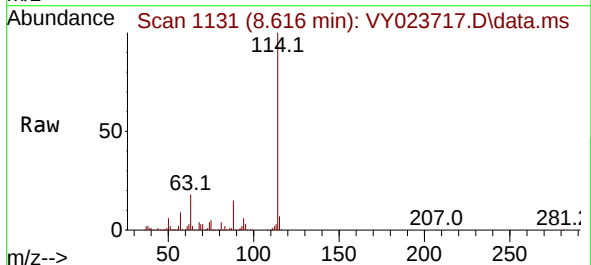
Tgt Ion: 114 Resp: 353046

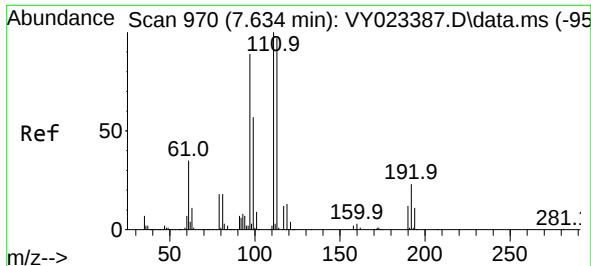
Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.2

88 14.6 0.0 28.4

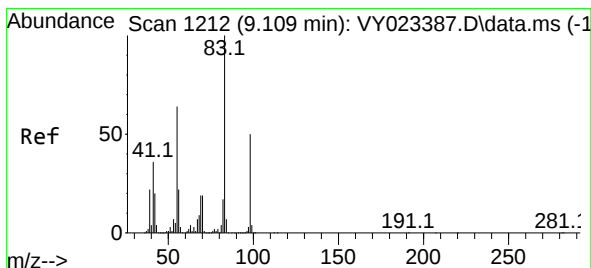
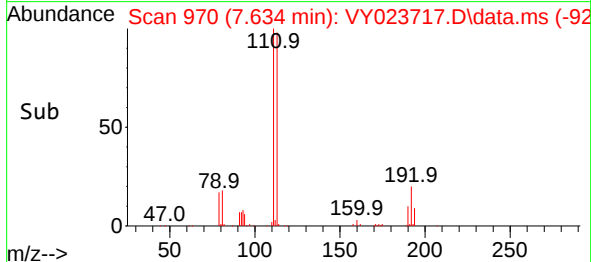
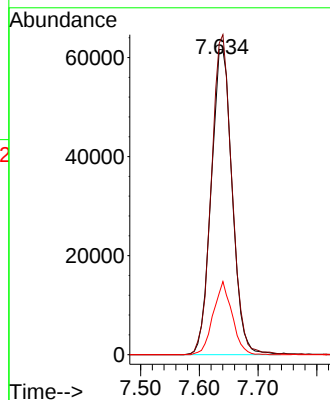
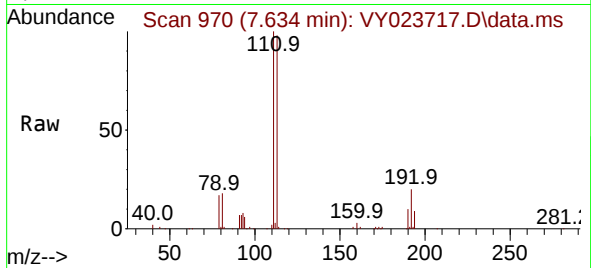




#35
Dibromofluoromethane
Concen: 70.618 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

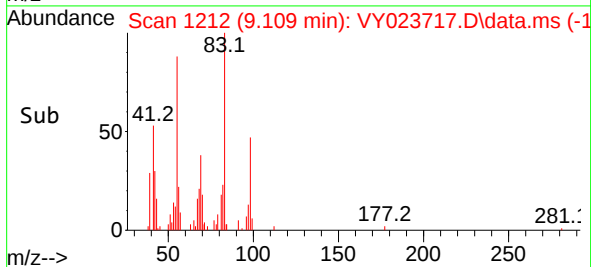
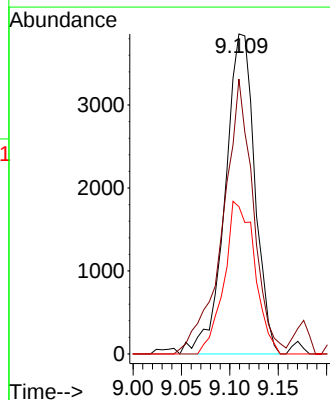
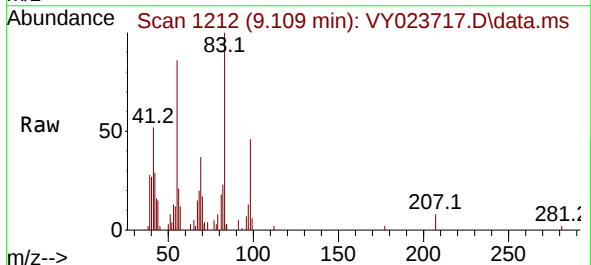
Instrument :
MSVOA_Y
ClientSampleId :
A-LAW-25-0167-0175-COMP

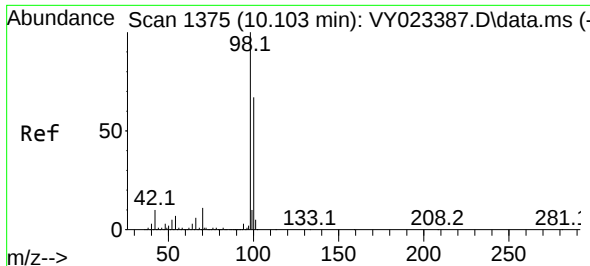
Tgt Ion:113 Resp: 153191
Ion Ratio Lower Upper
113 100
111 102.6 81.8 122.6
192 21.6 18.0 27.0



#39
Methylcyclohexane
Concen: 2.207 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

Tgt Ion: 83 Resp: 8252
Ion Ratio Lower Upper
83 100
55 84.4 51.4 77.2#
98 46.0 40.4 60.6

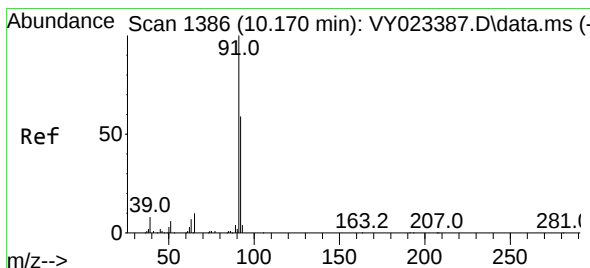
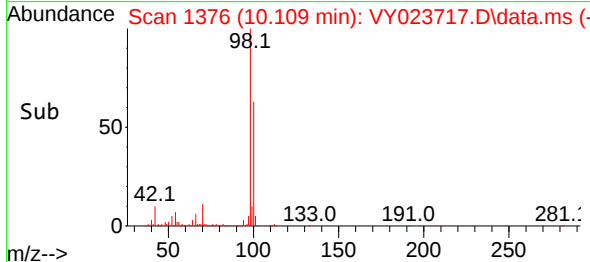
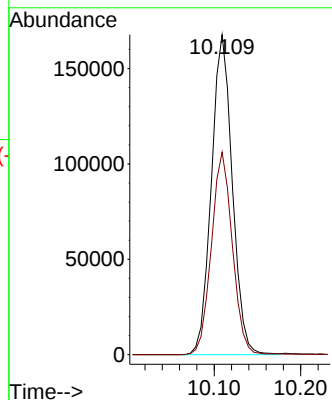
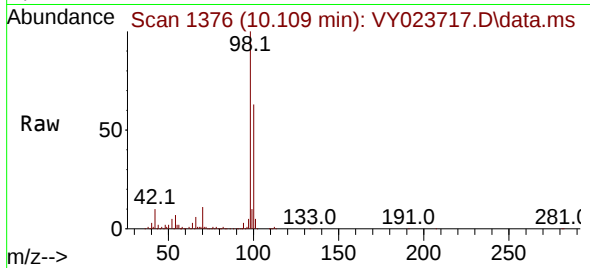




#50
Toluene-d8
Concen: 34.829 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

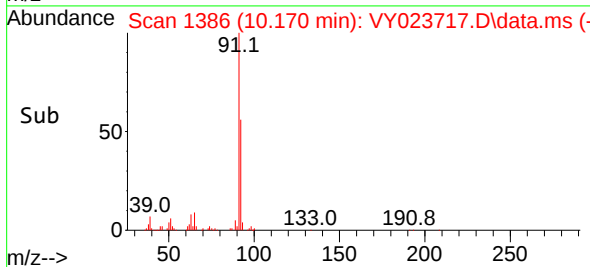
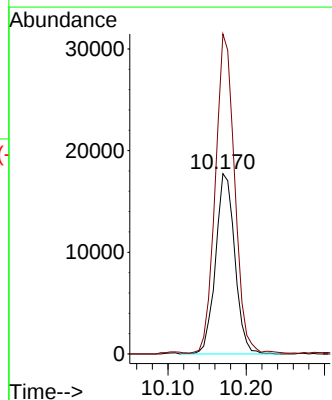
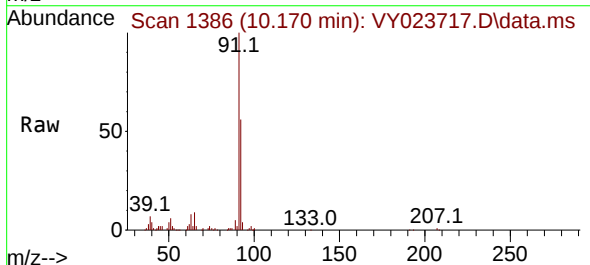
Instrument :
MSVOA_Y
ClientSampleId :
A-LAW-25-0167-0175-COMP

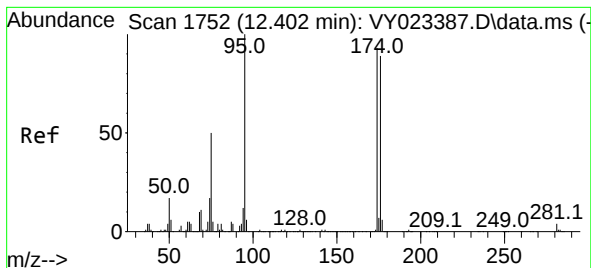
Tgt Ion: 98 Resp: 281375
Ion Ratio Lower Upper
98 100
100 63.3 53.0 79.4



#52
Toluene
Concen: 5.132 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

Tgt Ion: 92 Resp: 30308
Ion Ratio Lower Upper
92 100
91 177.2 136.4 204.6





#62

4-Bromofluorobenzene

Concen: 18.097 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

Instrument :

MSVOA_Y

ClientSampleId :

A-LAW-25-0167-0175-COMP

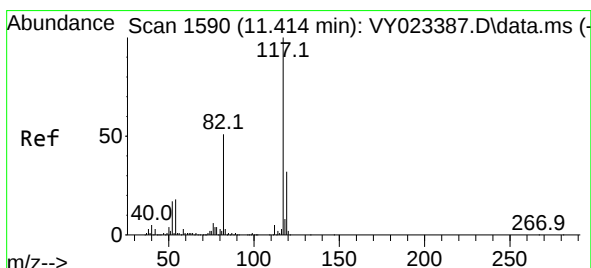
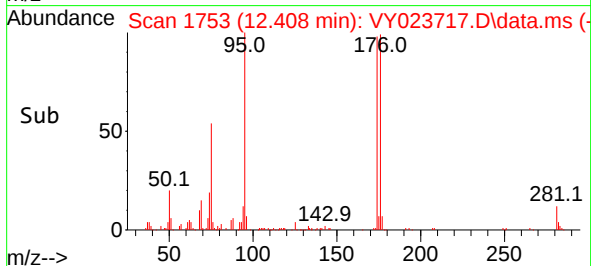
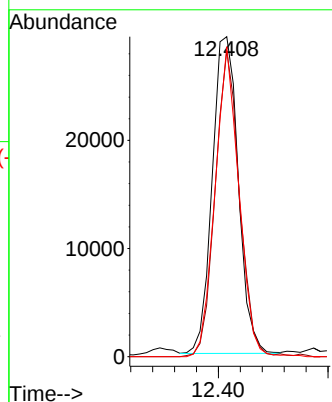
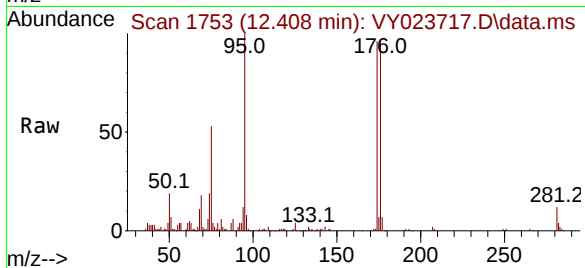
Tgt Ion: 95 Resp: 48269

Ion Ratio Lower Upper

95 100

174 90.2 0.0 192.8

176 89.5 0.0 187.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

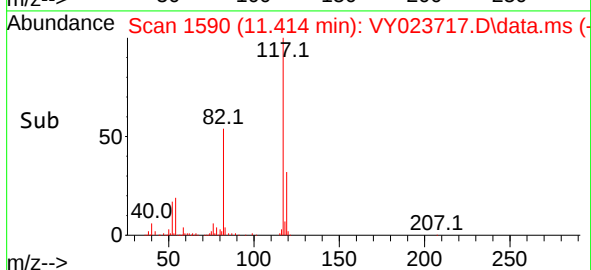
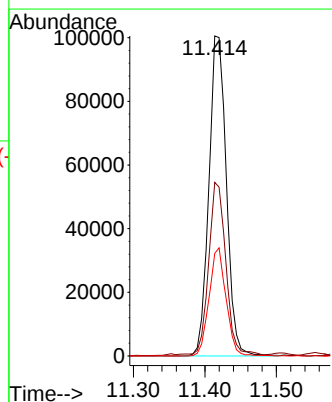
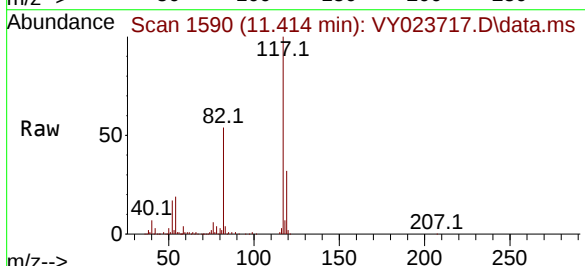
Tgt Ion: 117 Resp: 170922

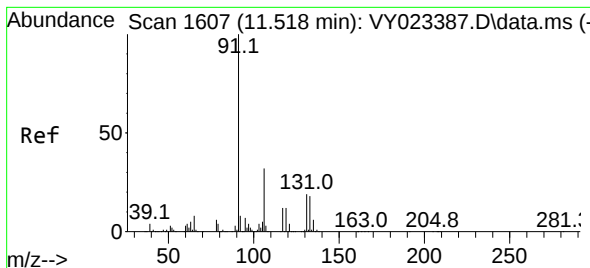
Ion Ratio Lower Upper

117 100

82 53.7 41.0 61.4

119 32.1 25.6 38.4





#67

Ethyl Benzene

Concen: 12.273 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.006 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

Instrument :

MSVOA_Y

ClientSampleId :

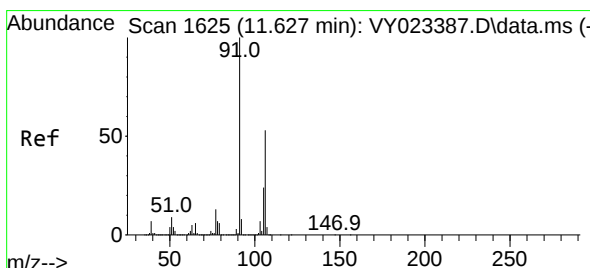
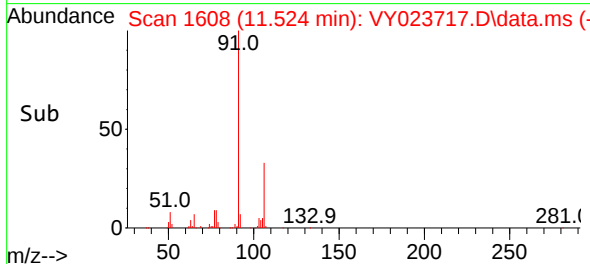
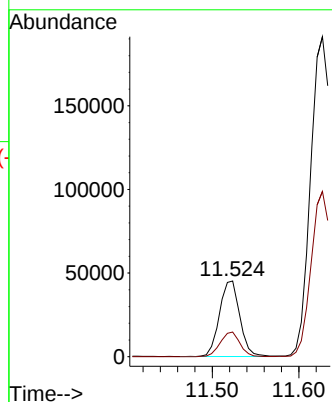
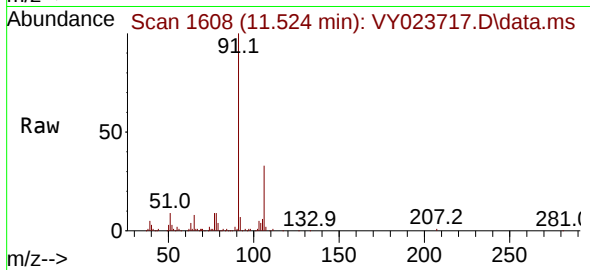
A-LAW-25-0167-0175-COMP

Tgt Ion: 91 Resp: 73850

Ion Ratio Lower Upper

91 100

106 32.7 25.8 38.8



#68

m/p-Xylenes

Concen: 72.388 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.000 min

Lab File: VY023717.D

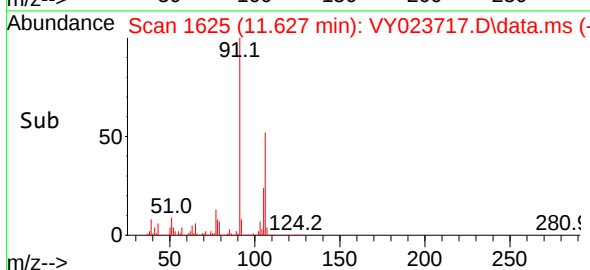
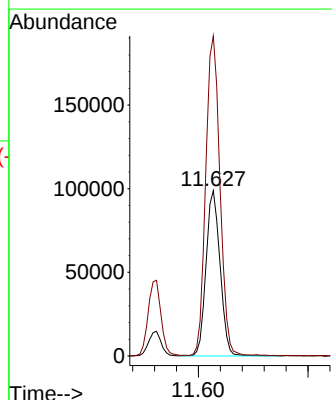
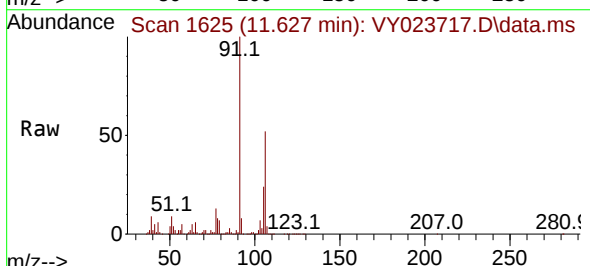
Acq: 10 Nov 2025 16:14

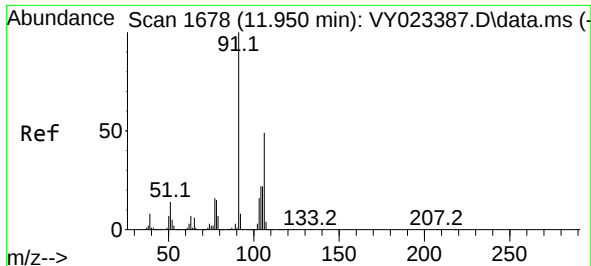
Tgt Ion:106 Resp: 174714

Ion Ratio Lower Upper

106 100

91 196.7 152.6 229.0

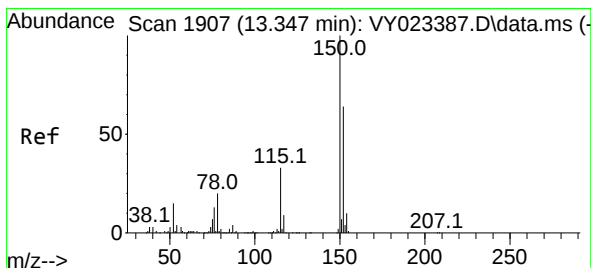
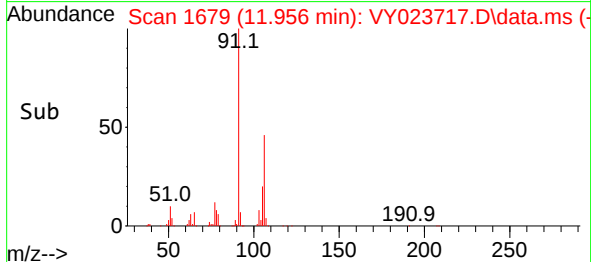
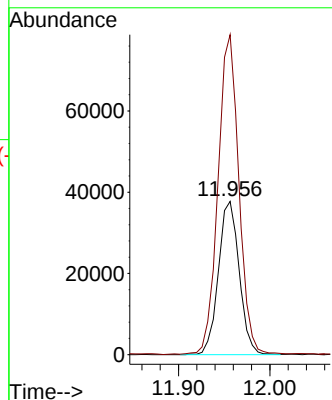
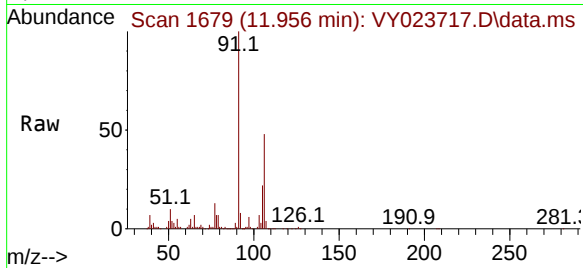




#69
o-Xylene
Concen: 26.378 ug/l
RT: 11.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

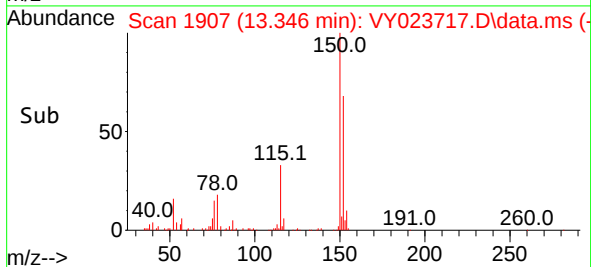
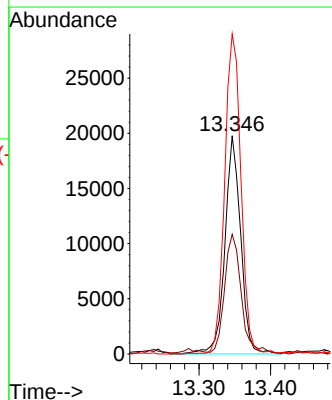
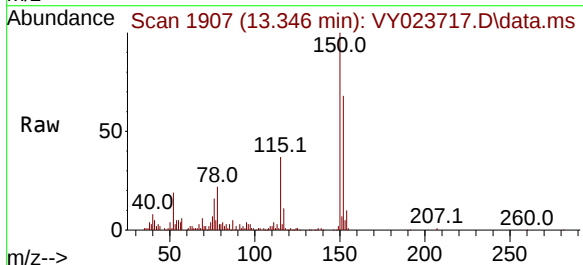
Instrument :
MSVOA_Y
ClientSampleId :
A-LAW-25-0167-0175-COMP

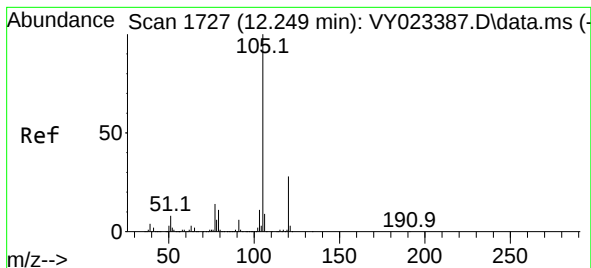
Tgt Ion:106 Resp: 59717
Ion Ratio Lower Upper
106 100
91 209.7 101.4 304.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023717.D
Acq: 10 Nov 2025 16:14

Tgt Ion:152 Resp: 30280
Ion Ratio Lower Upper
152 100
115 58.8 27.1 81.2
150 151.7 0.0 347.4





#73

Isopropylbenzene

Concen: 6.635 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.006 min

Lab File: VY023717.D

Acq: 10 Nov 2025 16:14

Instrument :

MSVOA_Y

ClientSampleId :

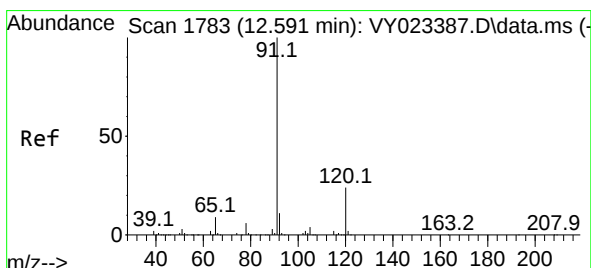
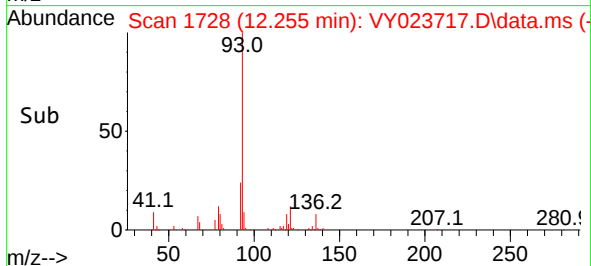
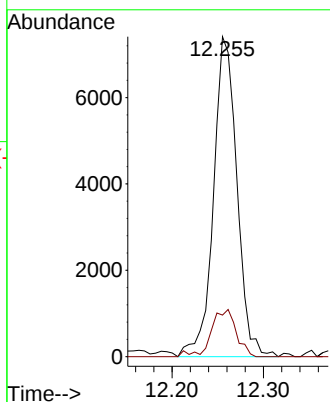
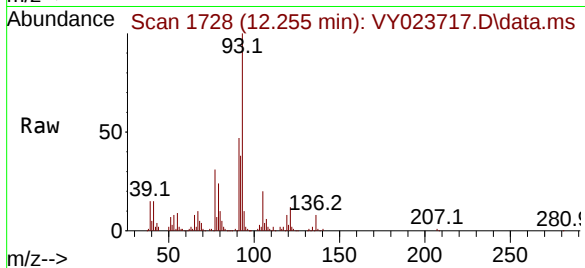
A-LAW-25-0167-0175-COMP

Tgt Ion:105 Resp: 13240

Ion Ratio Lower Upper

105 100

120 14.7 13.9 41.7



#78

n-propylbenzene

Concen: 3.778 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.006 min

Lab File: VY023717.D

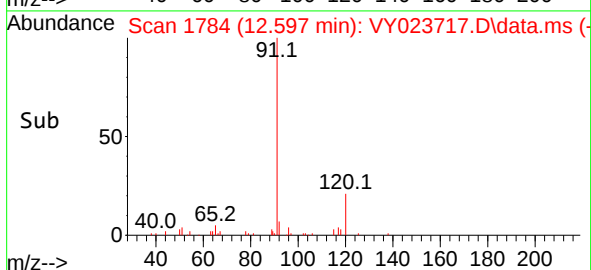
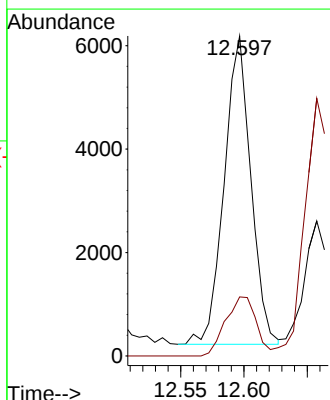
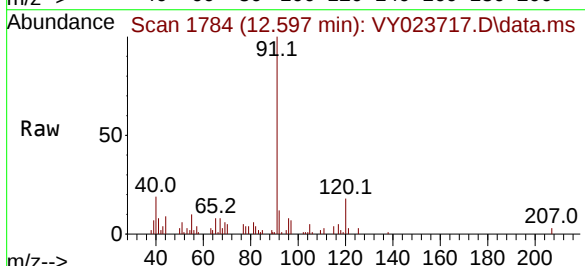
Acq: 10 Nov 2025 16:14

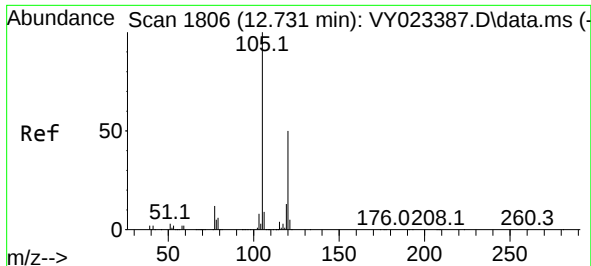
Tgt Ion: 91 Resp: 8724

Ion Ratio Lower Upper

91 100

120 22.1 12.3 36.8

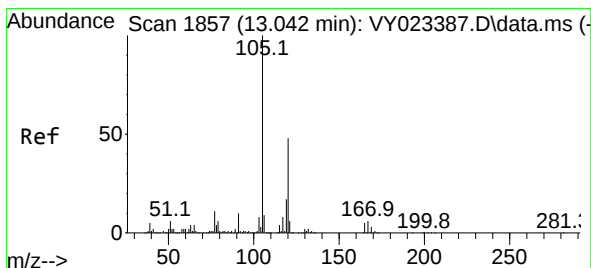
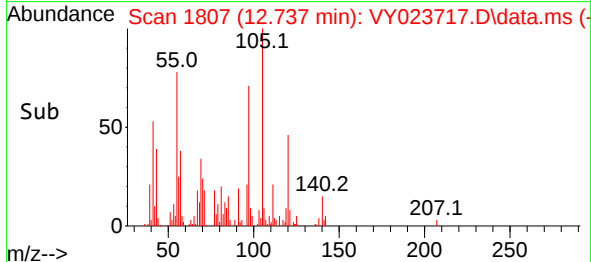
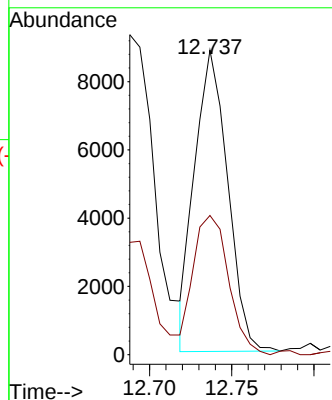
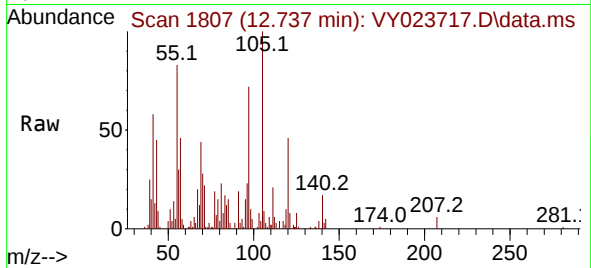




#80
 1,3,5-Trimethylbenzene
 Concen: 7.623 ug/l
 RT: 12.737 min Scan# 1806
 Delta R.T. 0.006 min
 Lab File: VY023717.D
 Acq: 10 Nov 2025 16:14

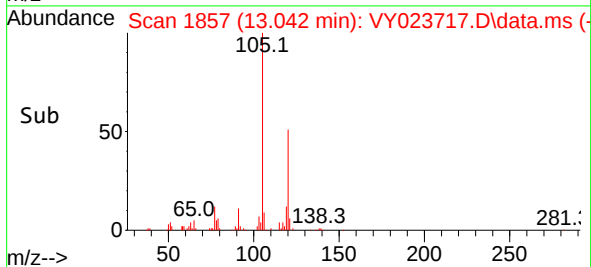
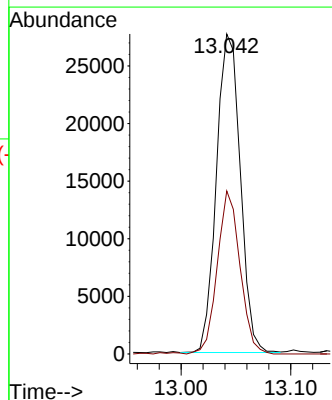
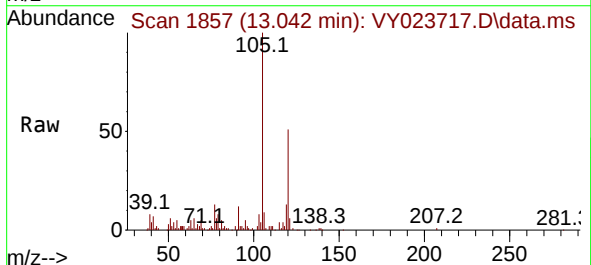
Instrument :
 MSVOA_Y
 ClientSampleId :
 A-LAW-25-0167-0175-COMP

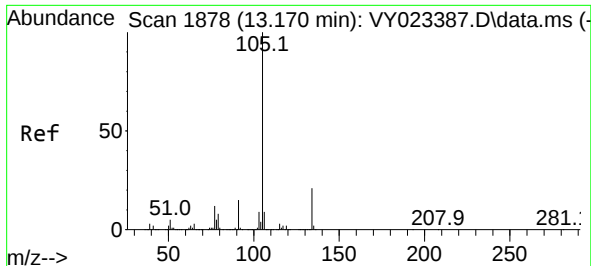
Tgt Ion:105 Resp: 12292
 Ion Ratio Lower Upper
 105 100
 120 49.4 25.4 76.4



#84
 1,2,4-Trimethylbenzene
 Concen: 26.003 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. -0.000 min
 Lab File: VY023717.D
 Acq: 10 Nov 2025 16:14

Tgt Ion:105 Resp: 41846
 Ion Ratio Lower Upper
 105 100
 120 48.7 23.8 71.2

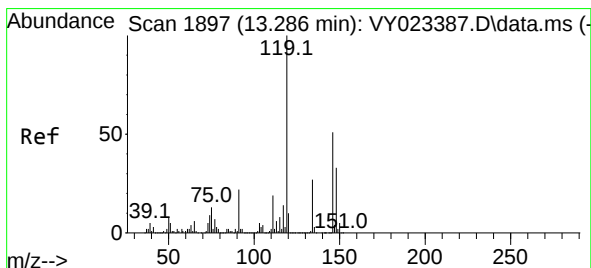
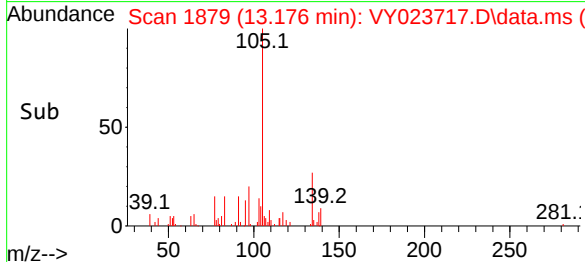
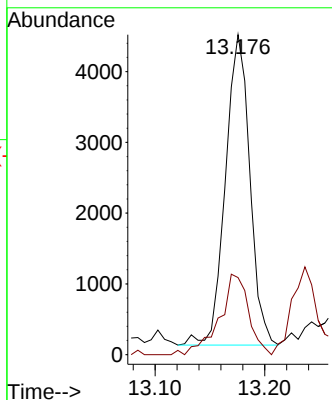
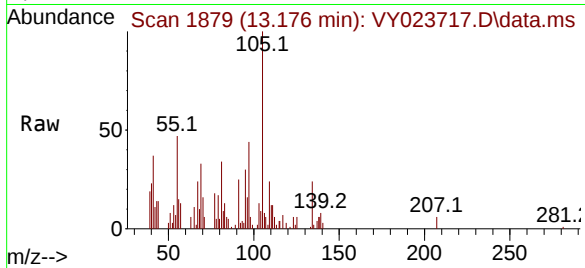




#85
 sec-Butylbenzene
 Concen: 3.179 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. 0.006 min
 Lab File: VY023717.D
 Acq: 10 Nov 2025 16:14

Instrument :
 MSVOA_Y
 ClientSampleId :
 A-LAW-25-0167-0175-COMP

Tgt Ion:105 Resp: 6790
 Ion Ratio Lower Upper
 105 100
 134 30.8 10.7 32.1



#86
 p-Isopropyltoluene
 Concen: 3.240 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. 0.006 min
 Lab File: VY023717.D
 Acq: 10 Nov 2025 16:14

Tgt Ion:119 Resp: 5892
 Ion Ratio Lower Upper
 119 100
 134 27.4 13.6 40.7
 91 26.8 10.9 32.9

