

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111125\
 Data File : VY023734.D
 Acq On : 11 Nov 2025 12:53
 Operator : SY/MD
 Sample : Q3593-07
 Misc : 5.68g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Nov 12 03:35:27 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	760597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1123575	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	569760	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	73531	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	223313	35.111	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	70.220%
35) Dibromofluoromethane	7.640	113	313250	45.373	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.740%
50) Toluene-d8	10.109	98	1061208	41.275	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	82.560%
62) 4-Bromofluorobenzene	12.408	95	147621	17.391	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	34.780%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.842	59	9177	19.395	ug/l #	94
19) Methyl tert-butyl Ether	5.122	73	20159	1.236	ug/l	95
20) Methylene Chloride	4.622	84	9685	1.183	ug/l	91
31) Cyclohexane	7.713	56	15196	1.436	ug/l #	23
36) 1,1-Dichloropropene	7.713	75	49698	5.437	ug/l #	49
38) Carbon Tetrachloride	7.713	117	68995	6.225	ug/l #	17
68) m/p-Xylenes	11.627	106	21511	2.674	ug/l	88
69) o-Xylene	11.956	106	8002	1.060	ug/l	90
73) Isopropylbenzene	12.261	105	9682	1.998	ug/l	86
76) 1,2,3-Trichloropropane	12.408	75	72058	111.074	ug/l #	100
78) n-propylbenzene	12.597	91	7953	1.418	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	10257	2.619	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.408	75	72058	272.374	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.048	105	35774	9.154	ug/l	96
85) sec-Butylbenzene	13.176	105	7108	1.371	ug/l	90
86) p-Isopropyltoluene	13.237	119	4700	1.064	ug/l	86
89) n-Butylbenzene	13.621	91	5067	1.317	ug/l #	78
92) 1,2-Dibromo-3-Chloropr...	14.182	75	268	2.061	ug/l	76
93) 1,2,4-Trichlorobenzene	14.932	180	1816	1.324	ug/l #	53
95) Naphthalene	15.145	128	5468	2.504	ug/l #	55
96) 1,2,3-Trichlorobenzene	15.297	180	7309	6.154	ug/l #	19

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

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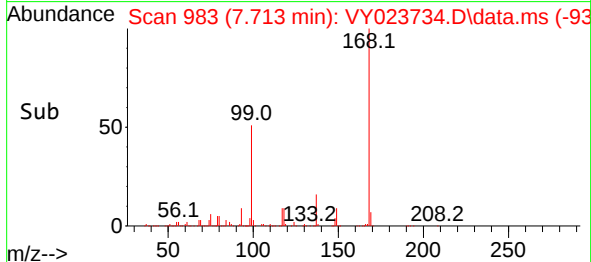
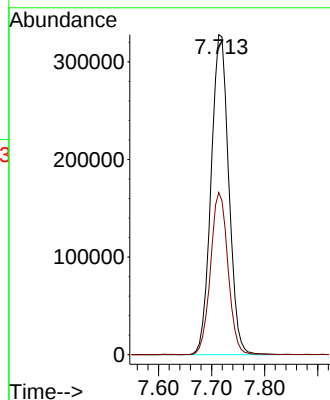
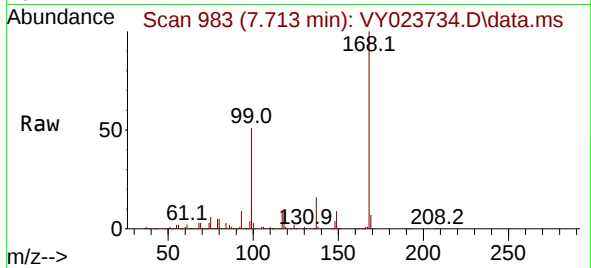




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

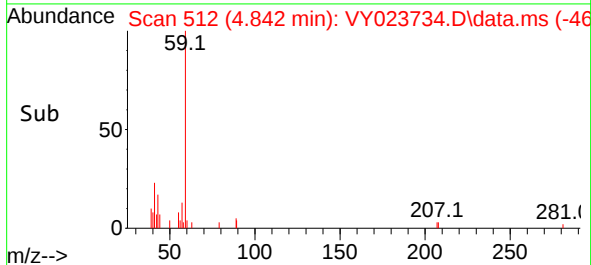
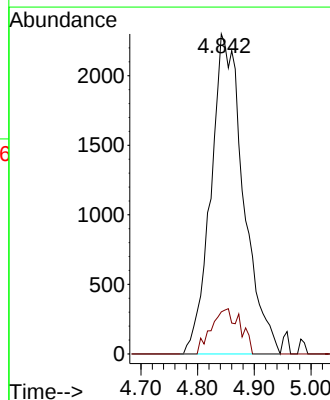
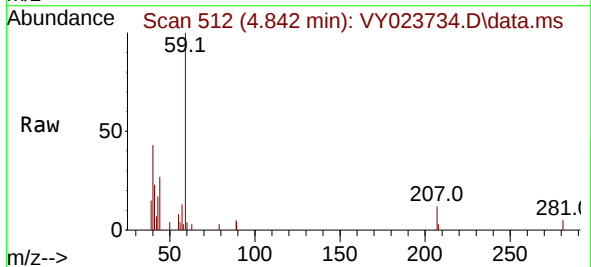
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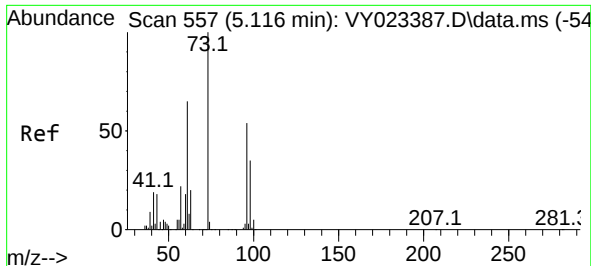
Tgt Ion:168 Resp: 760597
Ion Ratio Lower Upper
168 100
99 50.7 39.7 59.5



#11
Tert butyl alcohol
Concen: 19.395 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.018 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 59 Resp: 9177
Ion Ratio Lower Upper
59 100
57 12.5 8.3 12.5#





#19

Methyl tert-butyl Ether

Concen: 1.236 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Instrument :

MSVOA_Y

ClientSampleId :

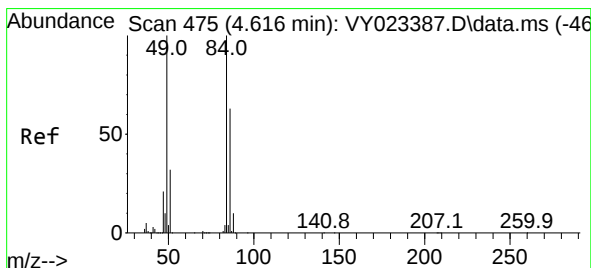
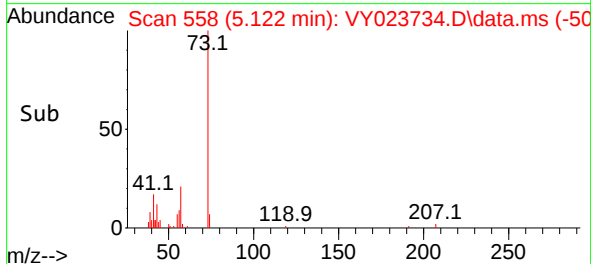
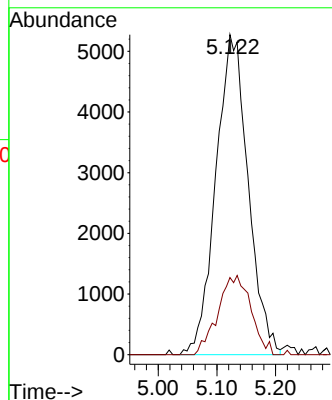
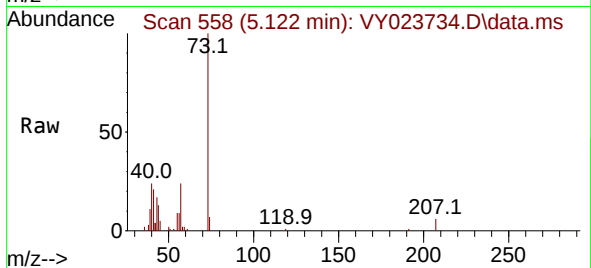
B-LAW-25-0167-0175-COMP

Tgt Ion: 73 Resp: 20159

Ion Ratio Lower Upper

73 100

57 24.1 17.4 26.0



#20

Methylene Chloride

Concen: 1.183 ug/l

RT: 4.622 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Tgt Ion: 84 Resp: 9685

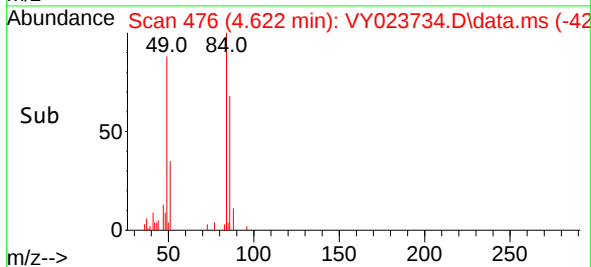
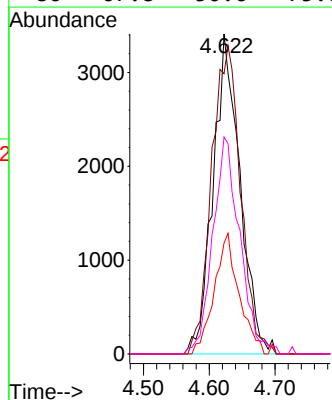
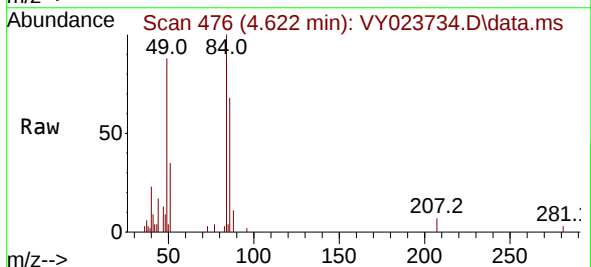
Ion Ratio Lower Upper

84 100

49 87.5 80.2 120.4

51 34.7 25.9 38.9

86 67.8 50.6 75.8

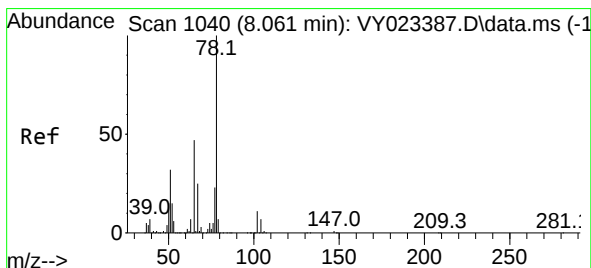
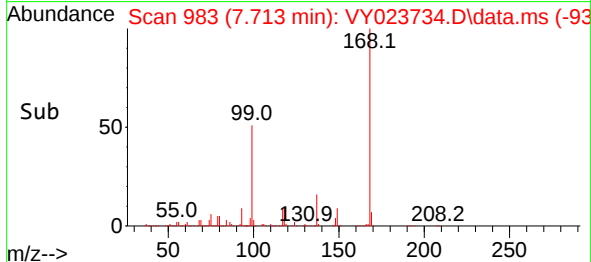
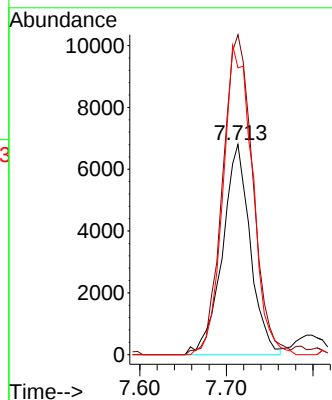
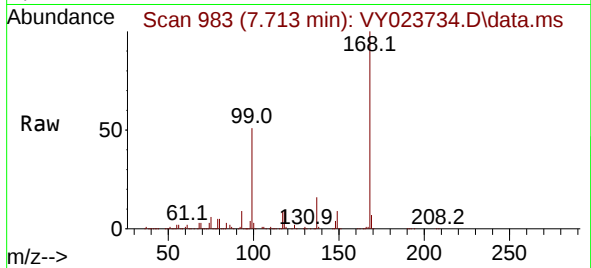




#31
Cyclohexane
Concen: 1.436 ug/l
RT: 7.713 min Scan# 981
Delta R.T. 0.012 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

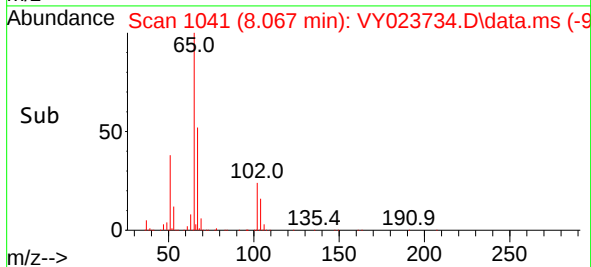
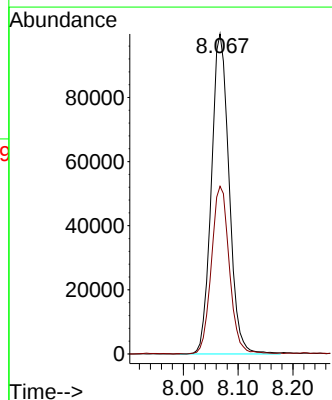
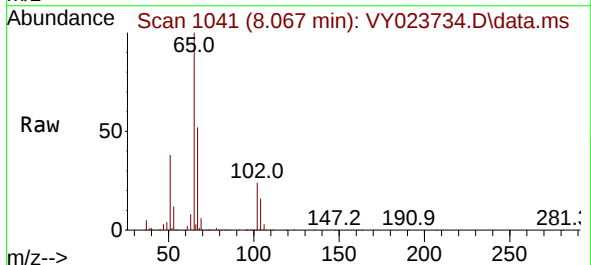
Instrument :
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ClientSampleId :
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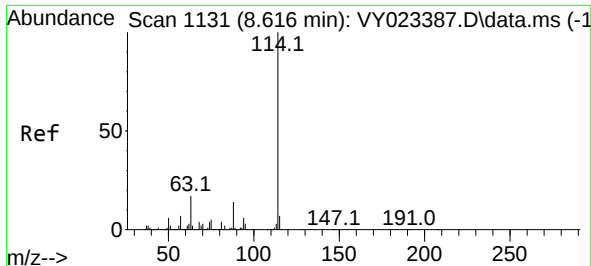
Tgt Ion: 56 Resp: 15196
Ion Ratio Lower Upper
56 100
69 152.2 30.0 45.0#
84 136.5 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 35.111 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 65 Resp: 223313
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.8

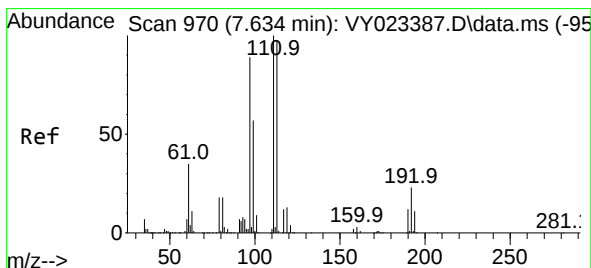
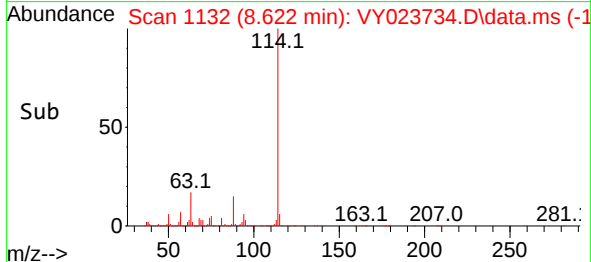
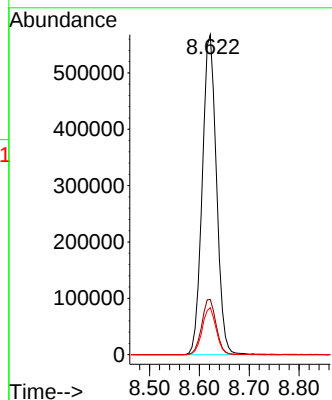
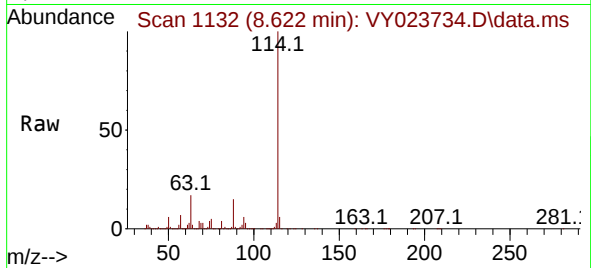




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

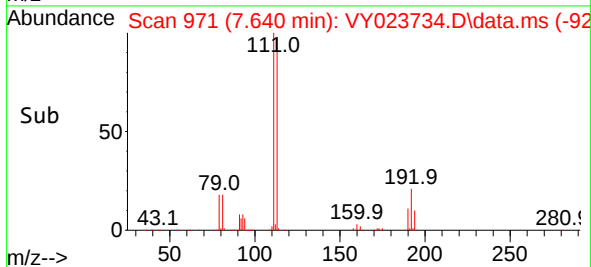
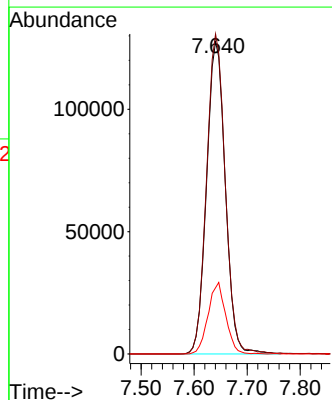
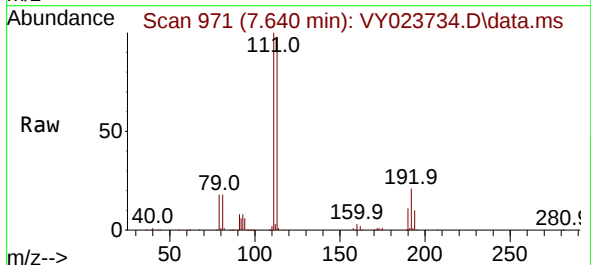
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ClientSampleId :
B-LAW-25-0167-0175-COMP

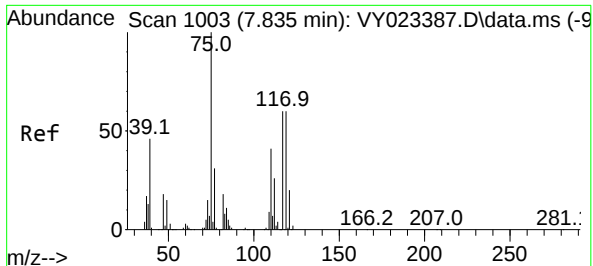
Tgt Ion:114 Resp: 1123575
Ion Ratio Lower Upper
114 100
63 17.2 0.0 34.2
88 14.7 0.0 28.4



#35
Dibromofluoromethane
Concen: 45.373 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion:113 Resp: 313250
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.6
192 21.6 18.0 27.0





#36

1,1-Dichloropropene

Concen: 5.437 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Instrument :

MSVOA_Y

ClientSampleId :

B-LAW-25-0167-0175-COMP

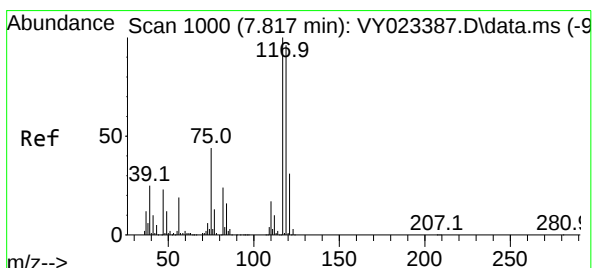
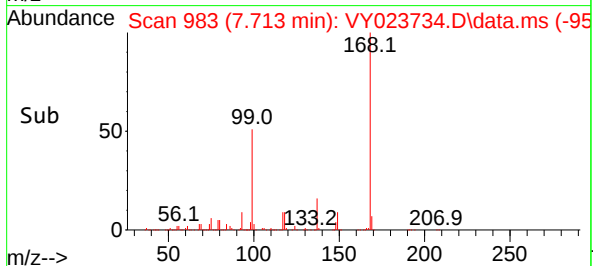
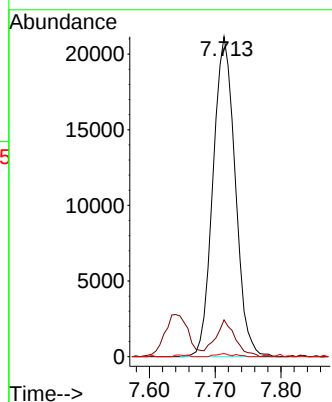
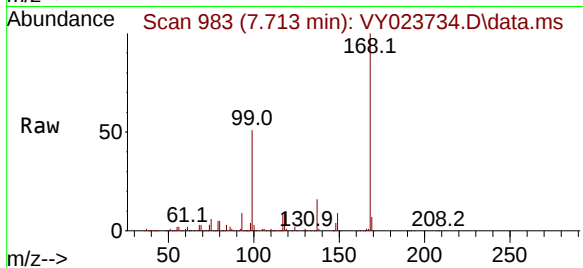
Tgt Ion: 75 Resp: 49698

Ion Ratio Lower Upper

75 100

110 10.1 19.9 59.7#

77 0.6 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 6.225 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

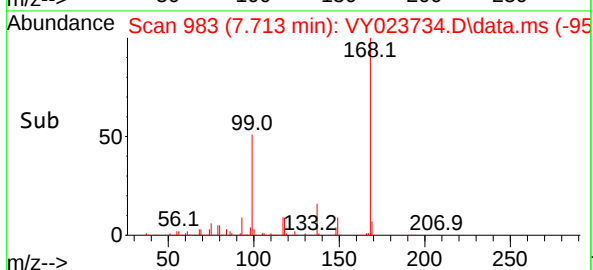
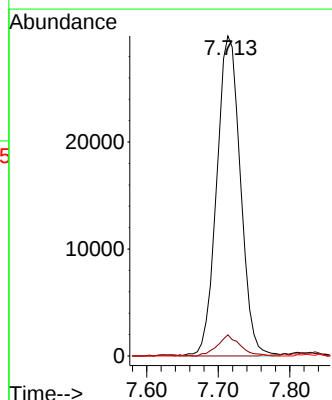
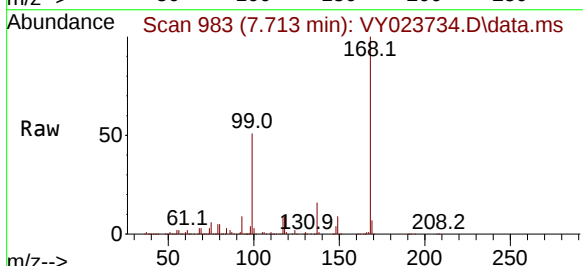
Tgt Ion: 117 Resp: 68995

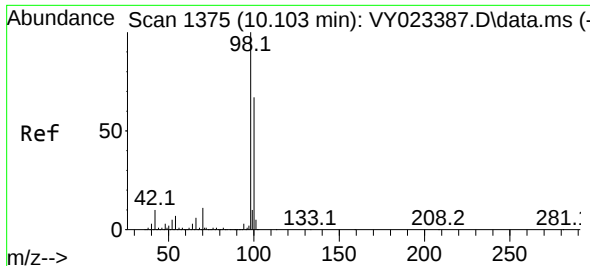
Ion Ratio Lower Upper

117 100

119 6.3 76.8 115.2#

121 0.0 24.5 36.7#

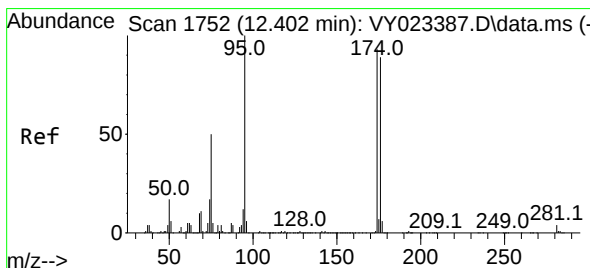
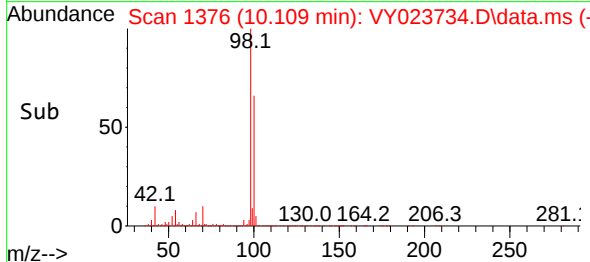
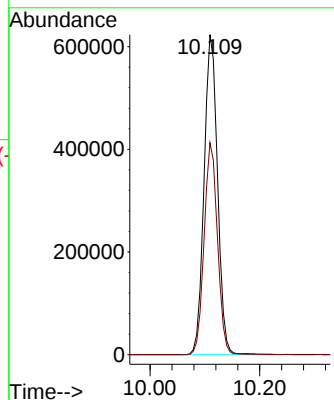
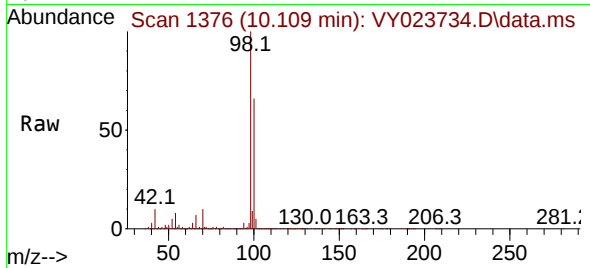




#50
Toluene-d8
Concen: 41.275 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

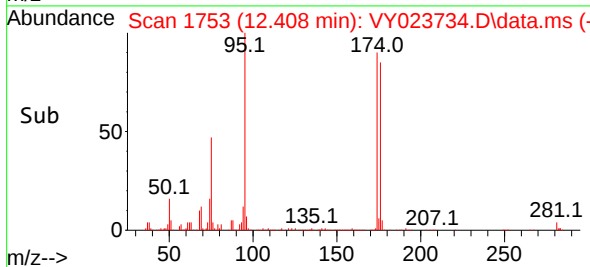
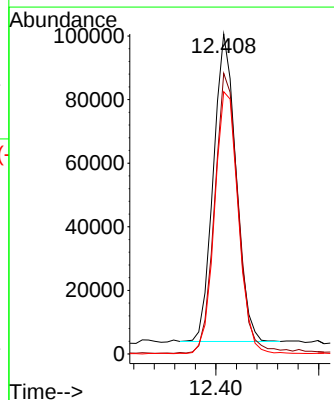
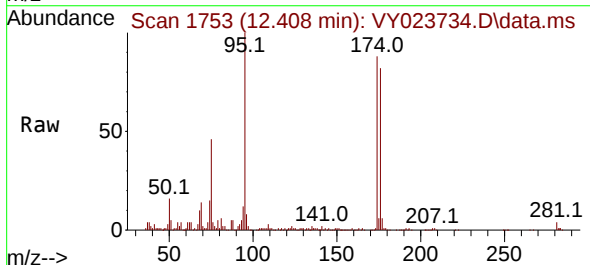
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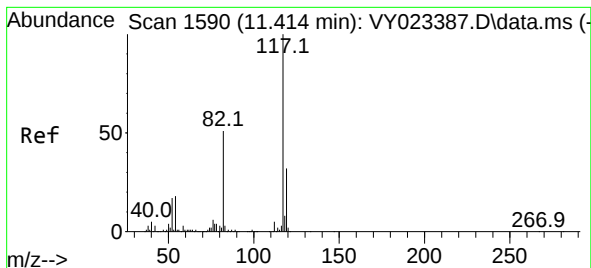
Tgt Ion: 98 Resp: 1061208
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 17.391 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 95 Resp: 147621
Ion Ratio Lower Upper
95 100
174 96.0 0.0 192.8
176 89.1 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Instrument :

MSVOA_Y

ClientSampleId :

B-LAW-25-0167-0175-COMP

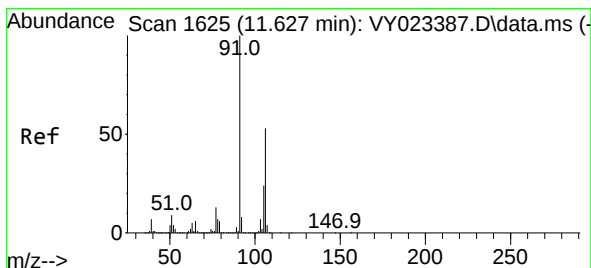
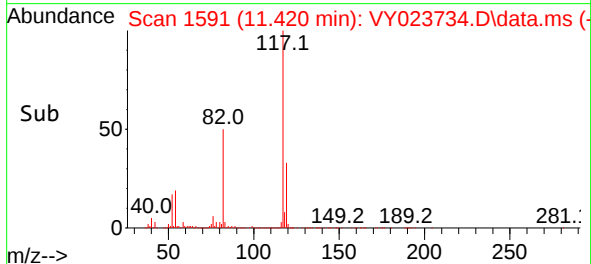
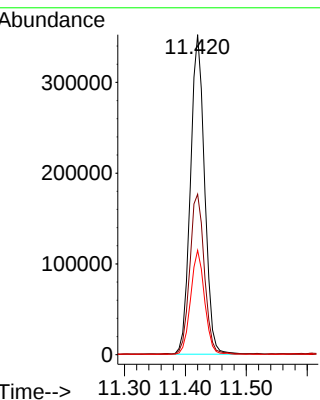
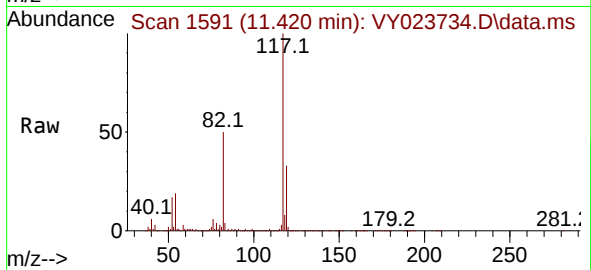
Tgt Ion:117 Resp: 569760

Ion Ratio Lower Upper

117 100

82 50.0 41.0 61.4

119 32.6 25.6 38.4



#68

m/p-Xylenes

Concen: 2.674 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.000 min

Lab File: VY023734.D

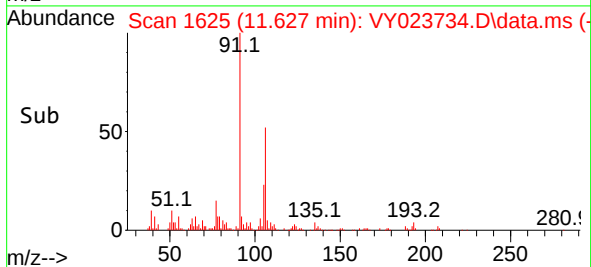
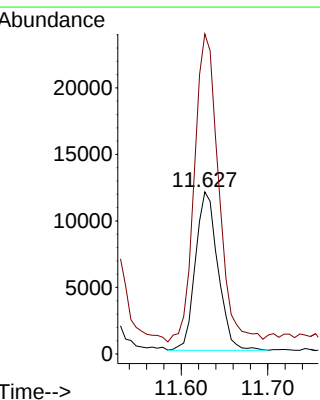
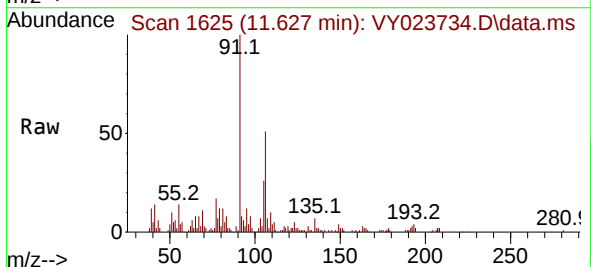
Acq: 11 Nov 2025 12:53

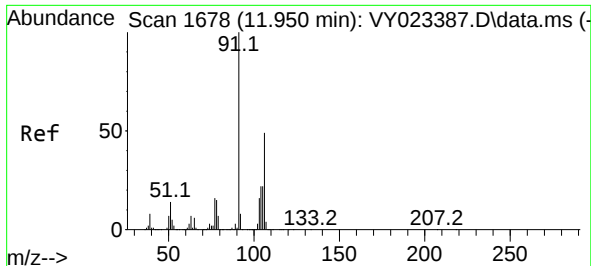
Tgt Ion:106 Resp: 21511

Ion Ratio Lower Upper

106 100

91 208.6 152.6 229.0

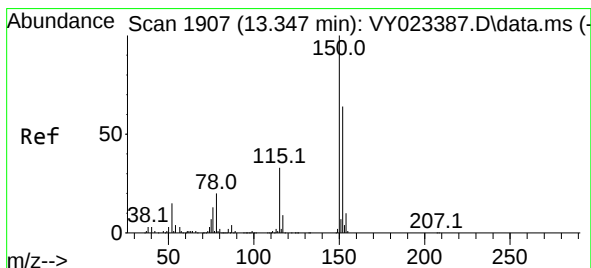
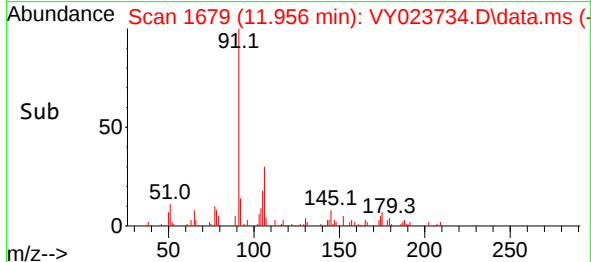
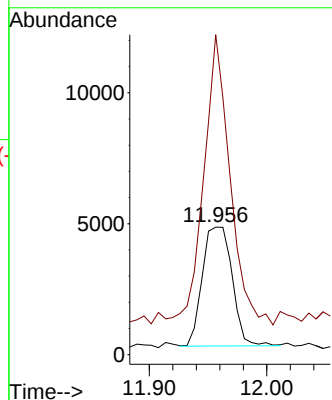
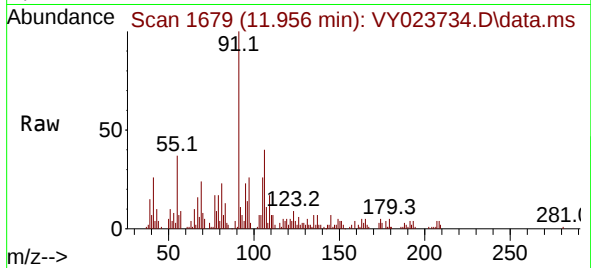




#69
o-Xylene
Concen: 1.060 ug/l
RT: 11.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

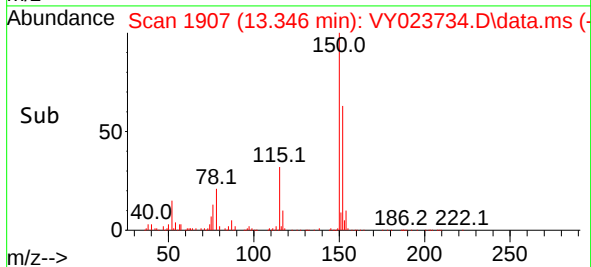
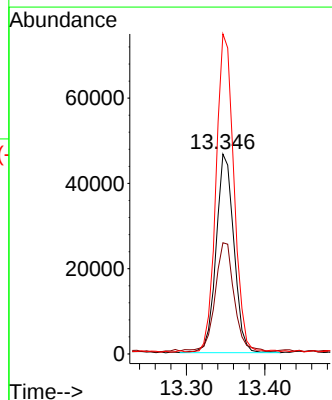
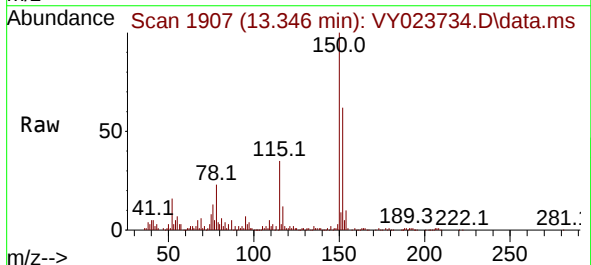
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

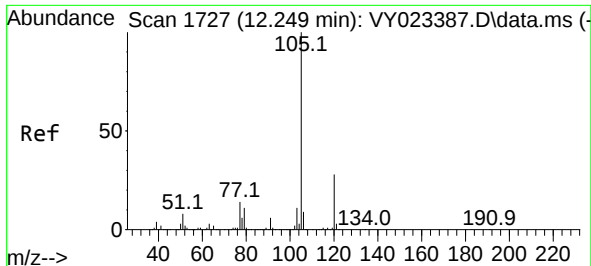
Tgt Ion:106 Resp: 8002
Ion Ratio Lower Upper
106 100
91 218.7 101.4 304.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion:152 Resp: 73531
Ion Ratio Lower Upper
152 100
115 58.9 27.1 81.2
150 160.8 0.0 347.4

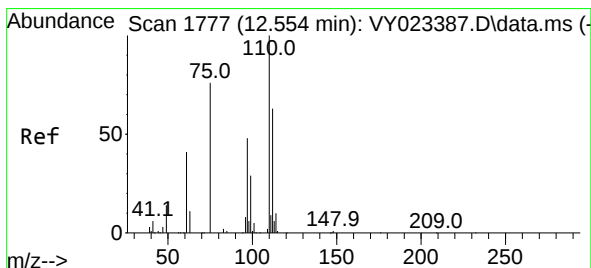
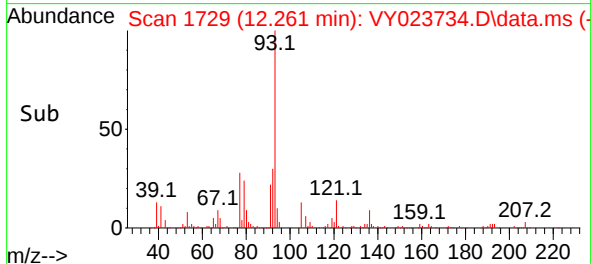
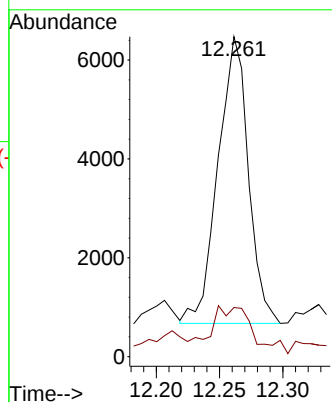
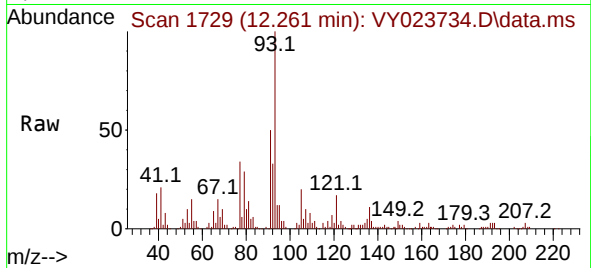




#73
Isopropylbenzene
Concen: 1.998 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.012 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

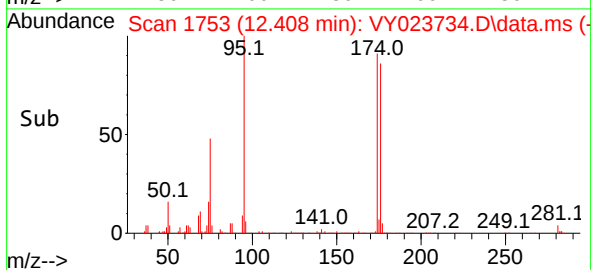
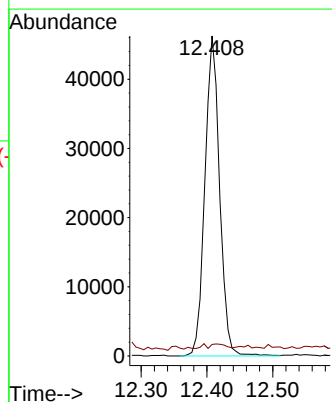
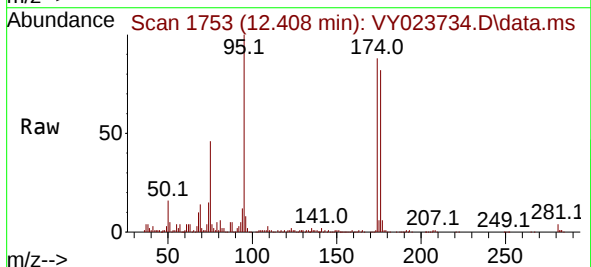
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

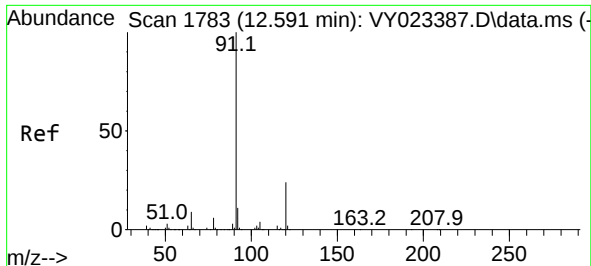
Tgt Ion:105 Resp: 9682
Ion Ratio Lower Upper
105 100
120 20.4 13.9 41.7



#76
1,2,3-Trichloropropane
Concen: 111.074 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 75 Resp: 72058
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

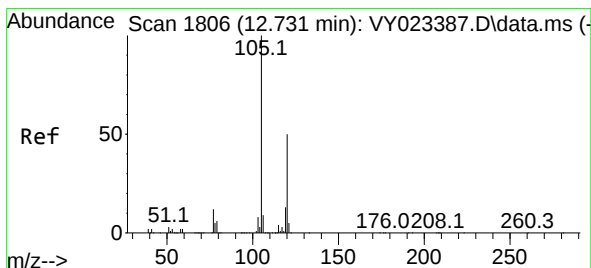
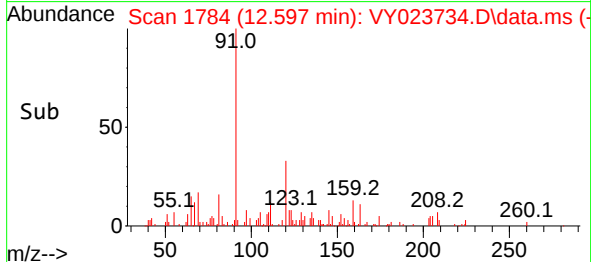
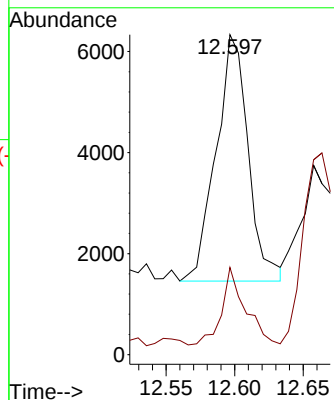
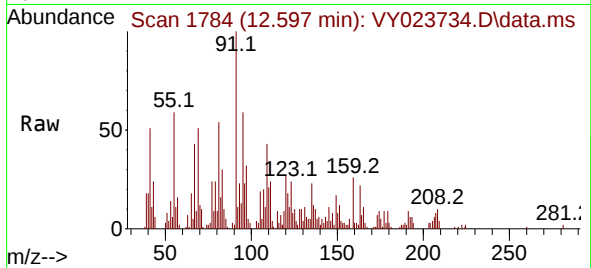




#78
n-propylbenzene
Concen: 1.418 ug/l
RT: 12.597 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

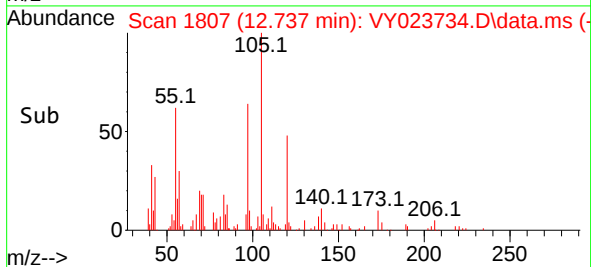
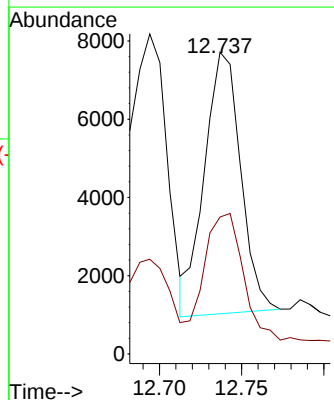
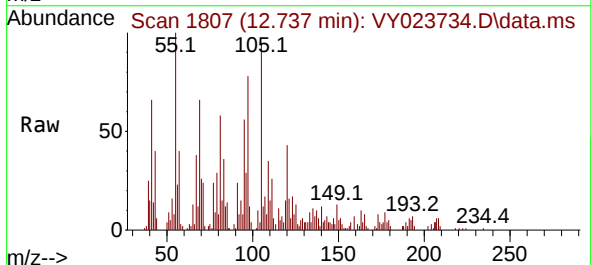
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

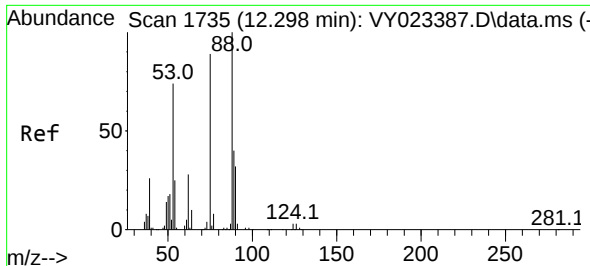
Tgt Ion: 91 Resp: 7953
Ion Ratio Lower Upper
91 100
120 23.1 12.3 36.8



#80
1,3,5-Trimethylbenzene
Concen: 2.619 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 105 Resp: 10257
Ion Ratio Lower Upper
105 100
120 57.0 25.4 76.4

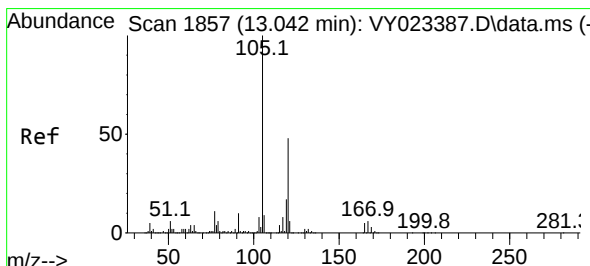
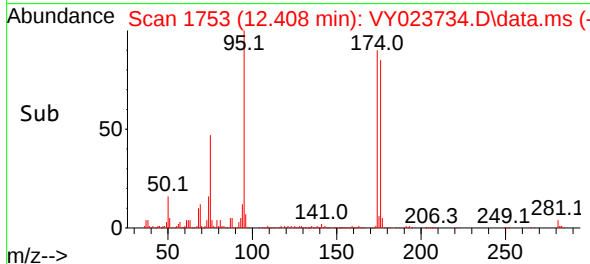
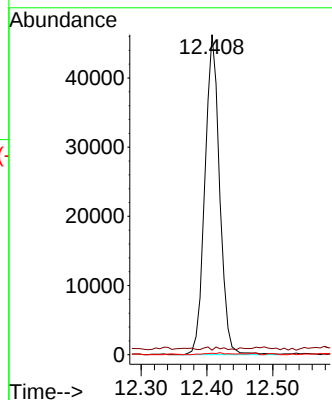
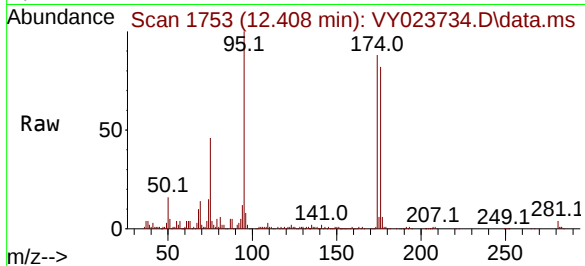




#81
trans-1,4-Dichloro-2-butene
Concen: 272.374 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.110 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

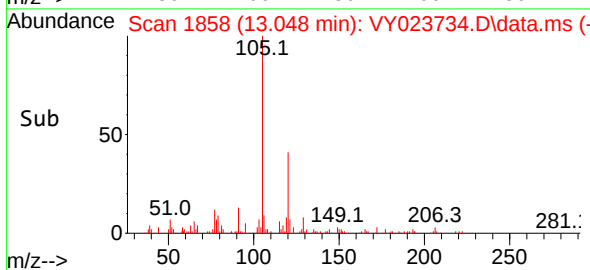
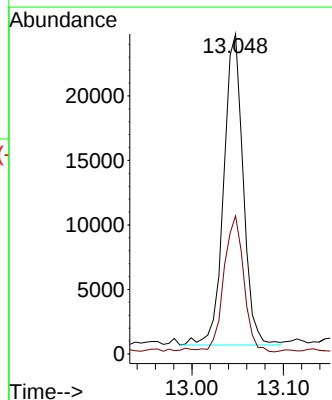
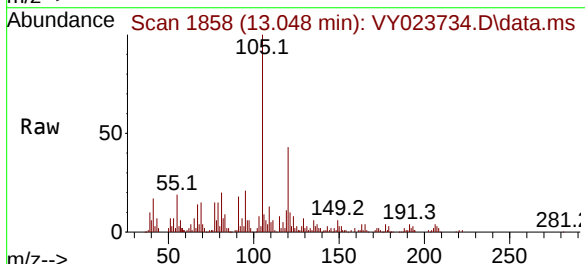
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

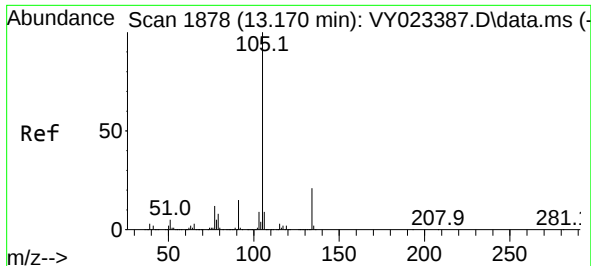
Tgt Ion: 75 Resp: 72058
Ion Ratio Lower Upper
75 100
53 0.7 68.6 102.8#
89 0.8 39.0 58.4#



#84
1,2,4-Trimethylbenzene
Concen: 9.154 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 105 Resp: 35774
Ion Ratio Lower Upper
105 100
120 44.6 23.8 71.2

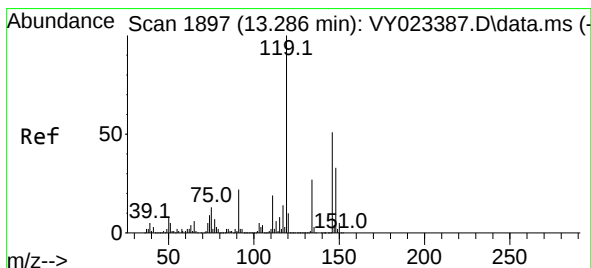
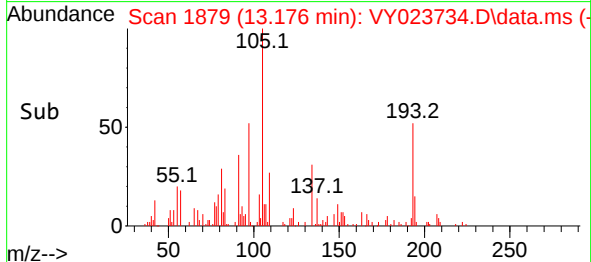
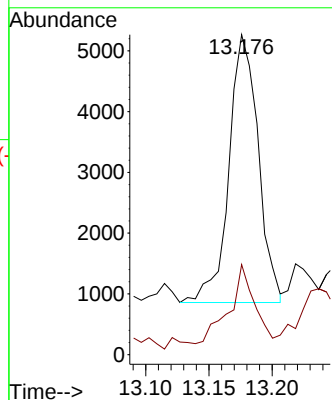
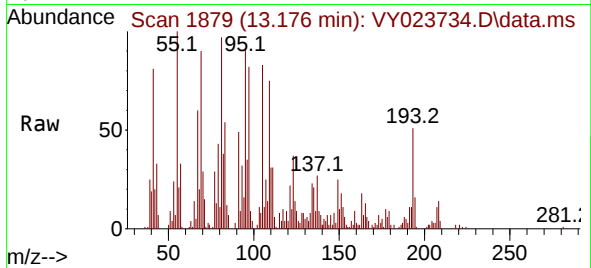




#85
 sec-Butylbenzene
 Concen: 1.371 ug/l
 RT: 13.176 min Scan# 1878
 Delta R.T. 0.006 min
 Lab File: VY023734.D
 Acq: 11 Nov 2025 12:53

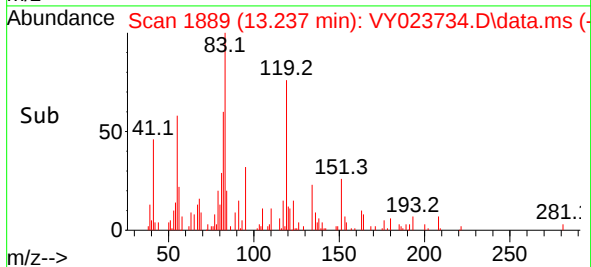
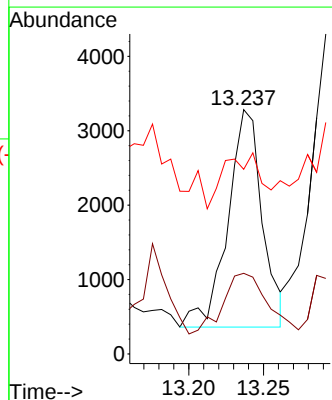
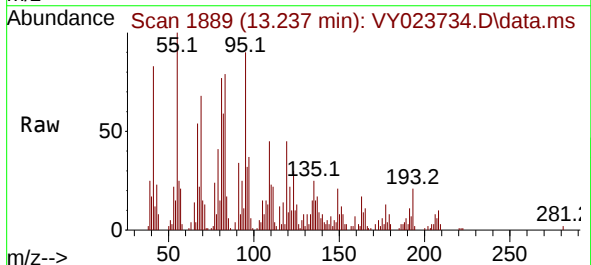
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-LAW-25-0167-0175-COMP

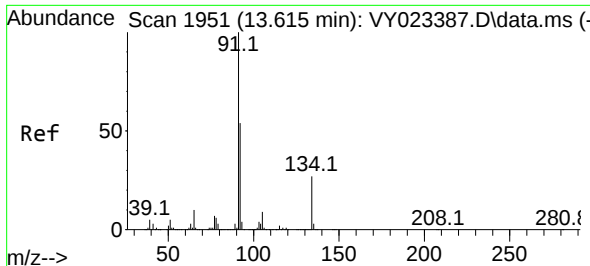
Tgt Ion:105 Resp: 7108
 Ion Ratio Lower Upper
 105 100
 134 26.1 10.7 32.1



#86
 p-Isopropyltoluene
 Concen: 1.064 ug/l
 RT: 13.237 min Scan# 1889
 Delta R.T. -0.049 min
 Lab File: VY023734.D
 Acq: 11 Nov 2025 12:53

Tgt Ion:119 Resp: 4700
 Ion Ratio Lower Upper
 119 100
 134 35.8 13.6 40.7
 91 27.1 10.9 32.9

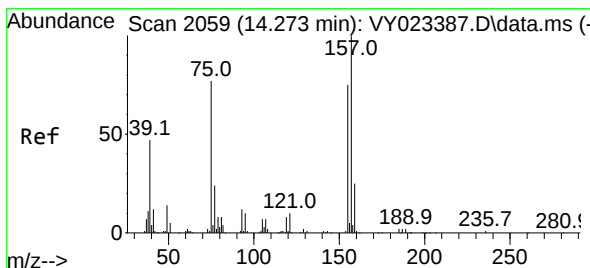
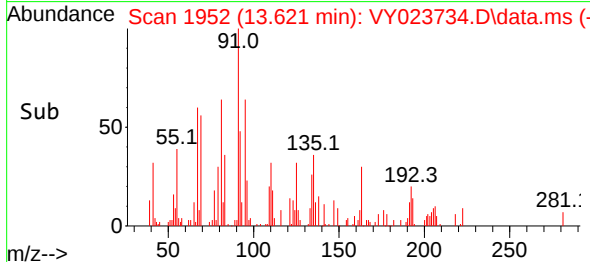
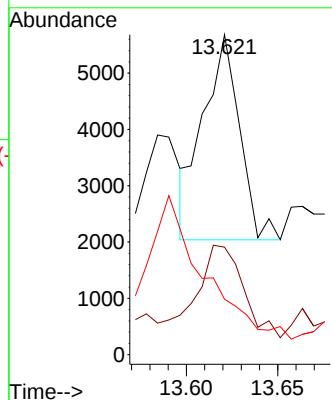
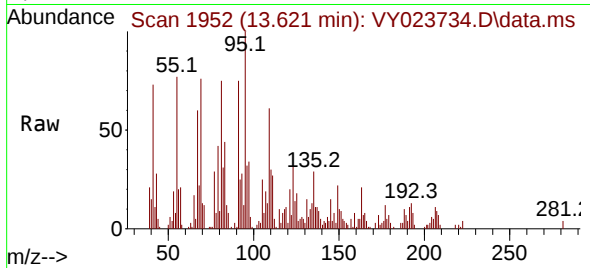




#89
n-Butylbenzene
Concen: 1.317 ug/l
RT: 13.621 min Scan# 1952
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

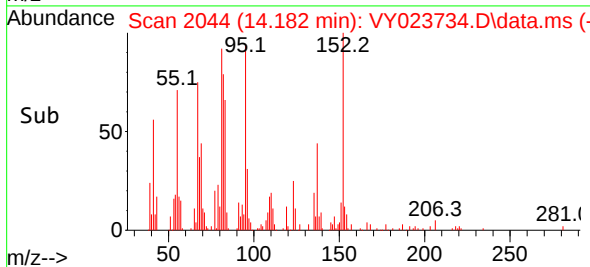
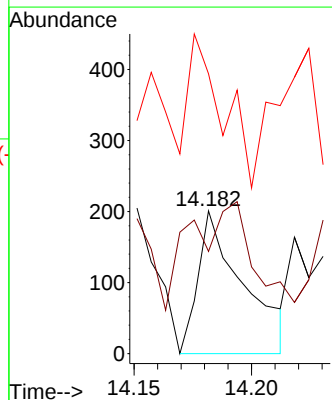
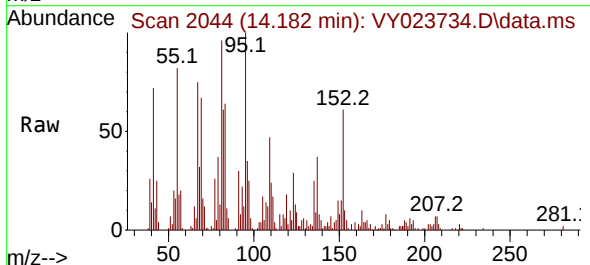
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

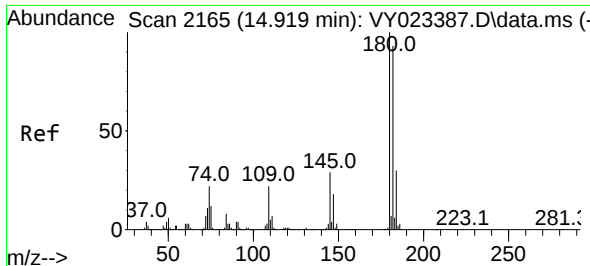
Tgt Ion:	91	Resp:	5067
Ion	Ratio	Lower	Upper
91	100		
92	57.6	27.0	80.8
134	0.0	14.1	42.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.061 ug/l
RT: 14.182 min Scan# 2044
Delta R.T. -0.091 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion:	75	Resp:	268
Ion	Ratio	Lower	Upper
75	100		
155	103.4	50.0	150.0
157	80.6	63.8	191.5

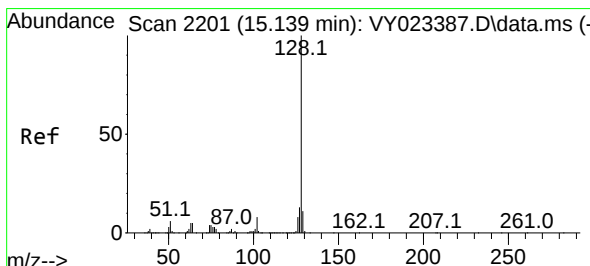
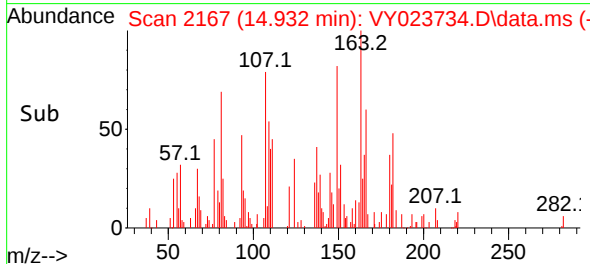
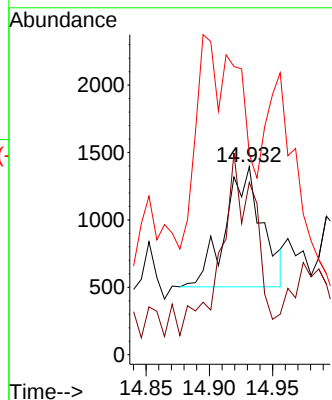
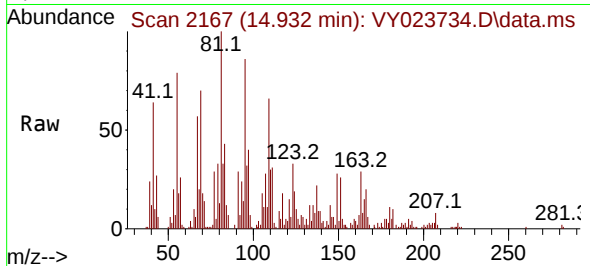




#93
1,2,4-Trichlorobenzene
Concen: 1.324 ug/l
RT: 14.932 min Scan# 2167
Delta R.T. 0.012 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

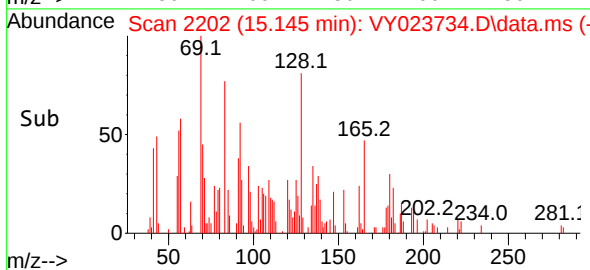
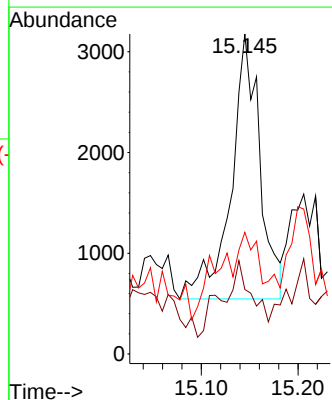
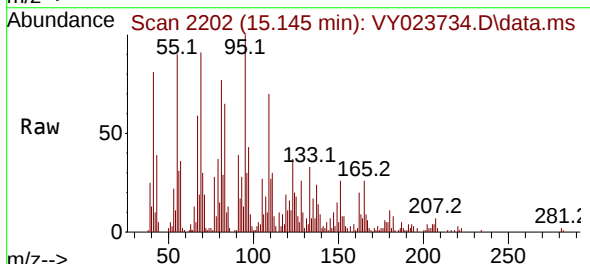
Instrument : MSVOA_Y
ClientSampleId : B-LAW-25-0167-0175-COMP

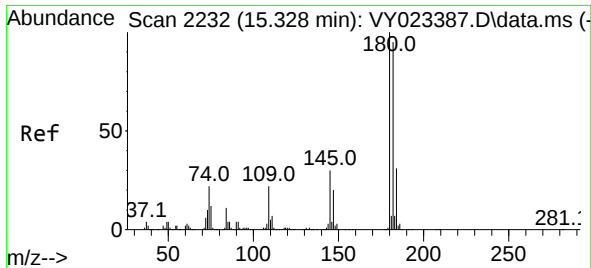
Tgt Ion:180 Resp: 1816
Ion Ratio Lower Upper
180 100
182 139.0 47.9 143.6
145 0.0 14.7 44.1#



#95
Naphthalene
Concen: 2.504 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

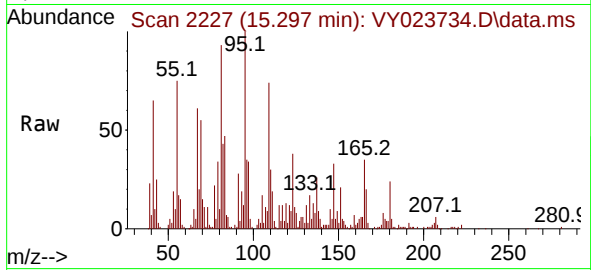
Tgt Ion:128 Resp: 5468
Ion Ratio Lower Upper
128 100
127 14.9 10.4 15.6
129 46.1 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 6.154 ug/l
 RT: 15.297 min Scan# 21
 Delta R.T. -0.030 min
 Lab File: VY023734.D
 Acq: 11 Nov 2025 12:53

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



Tgt Ion:180 Resp: 7309
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 45.8 15.3 45.9

