

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
 Data File : VY022815.D
 Acq On : 25 Jun 2025 11:24
 Operator : SY/MD
 Sample : Q2403-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0093RE

Quant Time: Jun 26 01:23:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

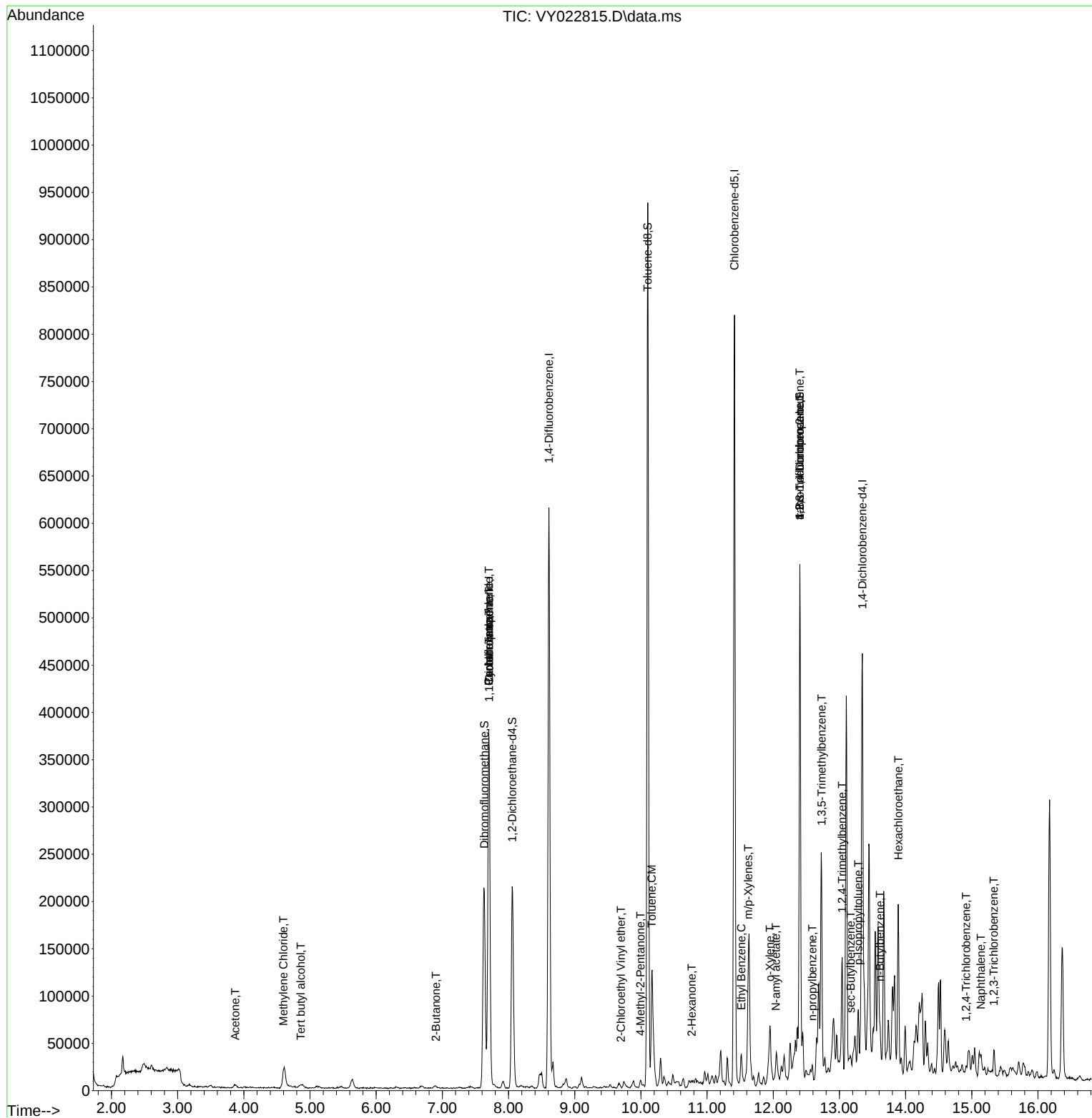
Internal Standards						
1) Pentafluorobenzene	7.701	168	286271	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.610	114	509592	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	415699	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	97432	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	163895	51.296	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.600%	
35) Dibromofluoromethane	7.634	113	156368	50.456	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.920%	
50) Toluene-d8	10.103	98	581453	47.282	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.560%	
62) 4-Bromofluorobenzene	12.402	95	151079	38.216	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 76.440%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	5927	27.898	ug/l	96
16) Acetone	3.873	43	6843	11.331	ug/l	96
20) Methylene Chloride	4.598	84	16609	4.355	ug/l	86
25) 2-Butanone	6.903	43	1869	2.126	ug/l #	83
31) Cyclohexane	7.701	56	9243	1.684	ug/l #	20
36) 1,1-Dichloropropene	7.707	75	23839	5.075	ug/l #	51
38) Carbon Tetrachloride	7.701	117	29078	5.867	ug/l #	18
51) 4-Methyl-2-Pentanone	9.994	43	5334	2.491	ug/l	94
52) Toluene	10.164	92	48126	5.282	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.701	63	23	15.667	ug/l #	48
59) 2-Hexanone	10.768	43	3415	2.346	ug/l	93
67) Ethyl Benzene	11.518	91	18339	1.143	ug/l	93
68) m/p-Xylenes	11.621	106	31013	4.999	ug/l	93
69) o-Xylene	11.950	106	12402	2.122	ug/l	94
74) N-amyl acetate	12.042	43	9734	6.018	ug/l #	59
76) 1,2,3-Trichloropropane	12.402	75	85350	85.805	ug/l #	100
78) n-propylbenzene	12.591	91	12116	1.393	ug/l	98
80) 1,3,5-Trimethylbenzene	12.731	105	15012	2.581	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.402	75	85350	216.777	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.042	105	63760	10.948	ug/l	98
85) sec-Butylbenzene	13.170	105	8591	1.113	ug/l	83
86) p-Isopropyltoluene	13.286	119	8575	1.335	ug/l	97
89) n-Butylbenzene	13.615	91	19700	3.261	ug/l #	73
90) Hexachloroethane	13.889	117	7624	5.959	ug/l #	17
93) 1,2,4-Trichlorobenzene	14.913	180	2414	1.479	ug/l	97
95) Naphthalene	15.139	128	16777	5.684	ug/l	96
96) 1,2,3-Trichlorobenzene	15.334	180	2760	1.957	ug/l #	82

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

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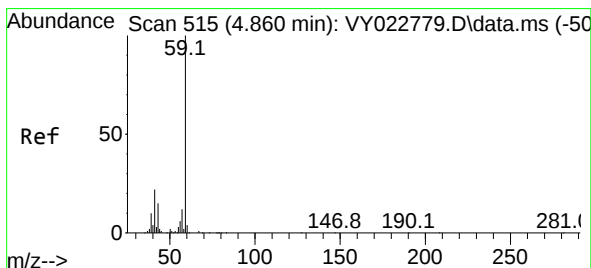
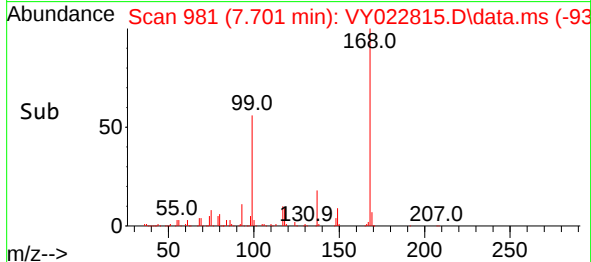
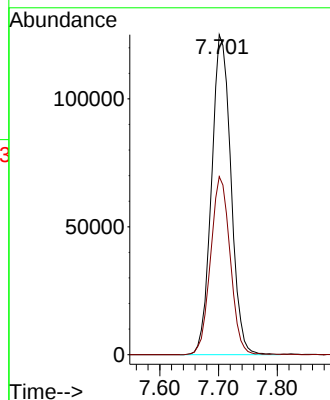
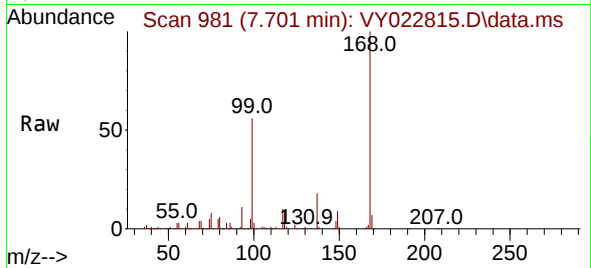




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

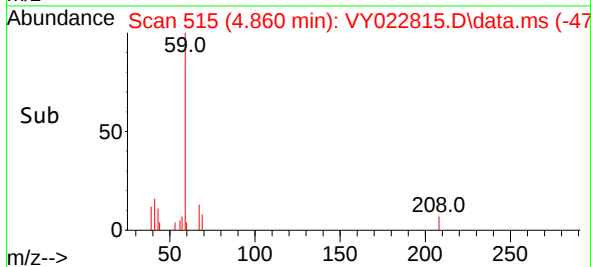
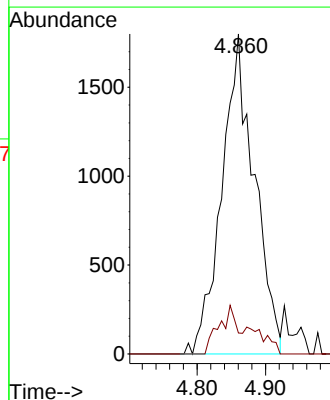
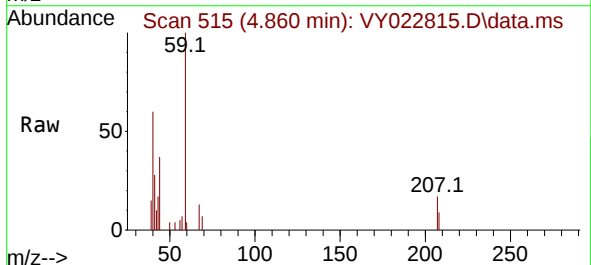
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MSVOA_Y
ClientSampleId :
LAW-25-0093RE

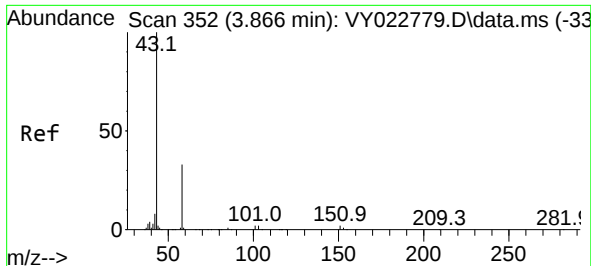
Tgt Ion:168 Resp: 286271
Ion Ratio Lower Upper
168 100
99 55.6 44.3 66.5



#11
Tert butyl alcohol
Concen: 27.898 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.024 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 59 Resp: 5927
Ion Ratio Lower Upper
59 100
57 8.7 8.0 12.0

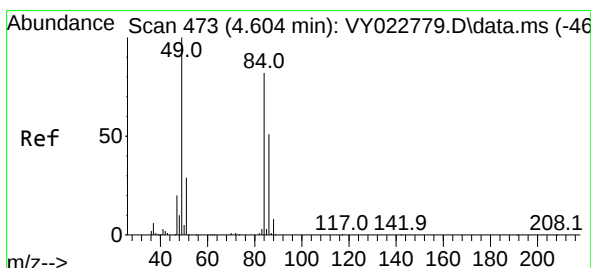
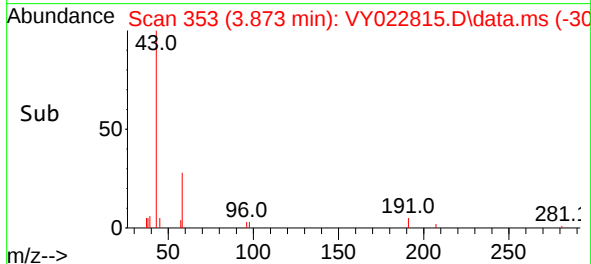
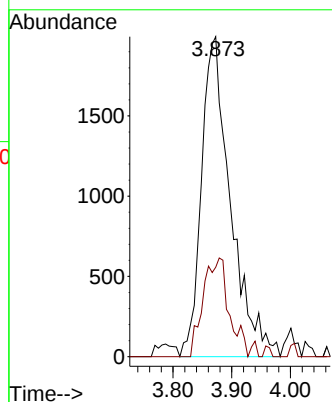
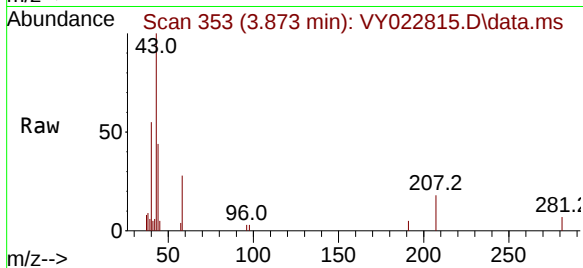




#16
Acetone
Concen: 11.331 ug/l
RT: 3.873 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

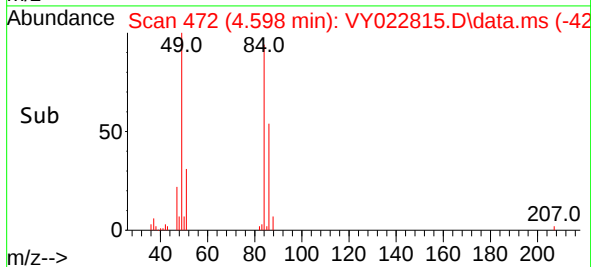
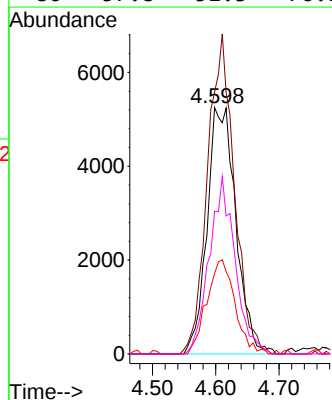
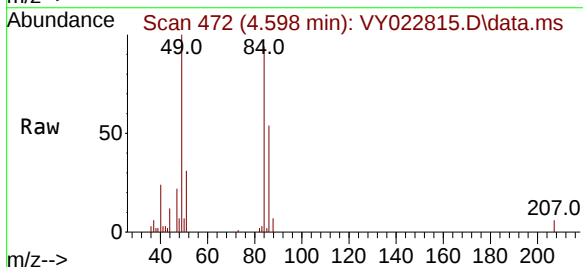
Instrument :
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ClientSampleId :
LAW-25-0093RE

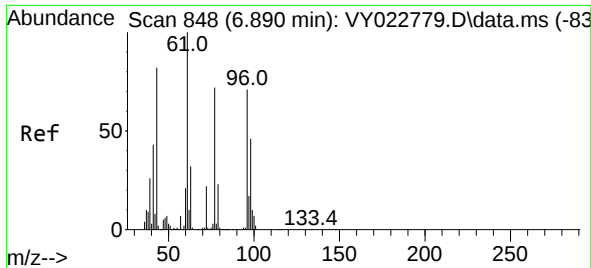
Tgt Ion: 43 Resp: 6843
Ion Ratio Lower Upper
43 100
58 27.9 24.0 36.0



#20
Methylene Chloride
Concen: 4.355 ug/l
RT: 4.598 min Scan# 472
Delta R.T. -0.024 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 84 Resp: 16609
Ion Ratio Lower Upper
84 100
49 106.3 101.9 152.9
51 32.7 29.8 44.8
86 57.8 51.3 76.9

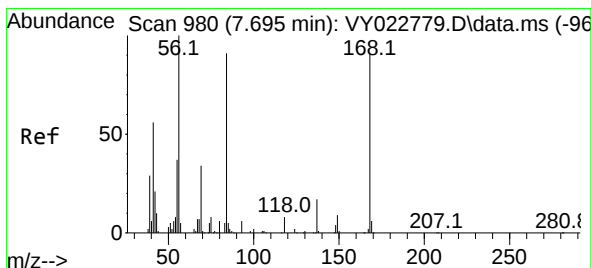
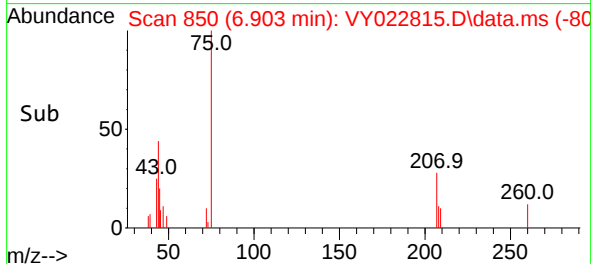
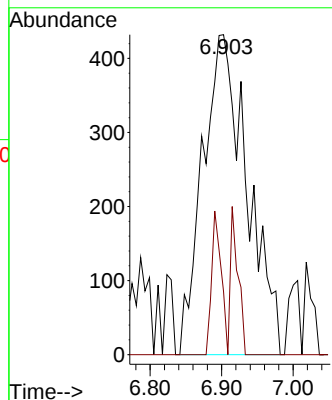
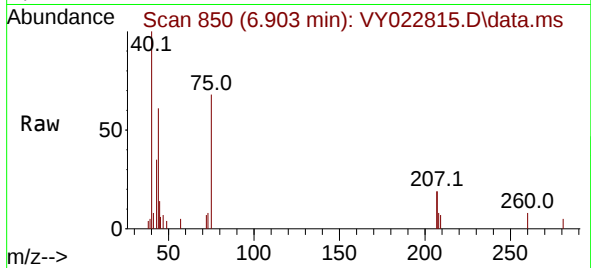




#25
2-Butanone
Concen: 2.126 ug/l
RT: 6.903 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

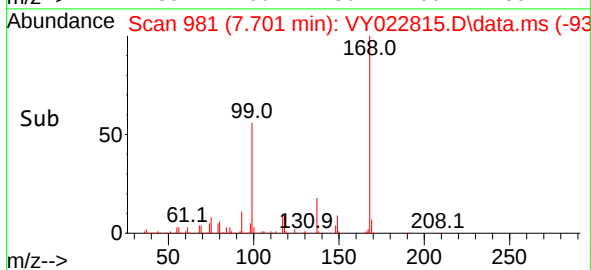
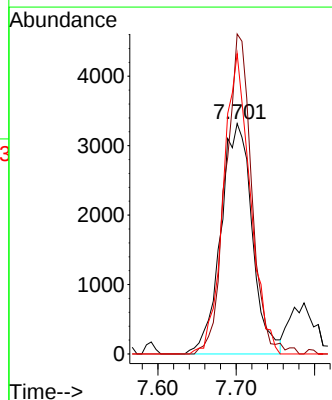
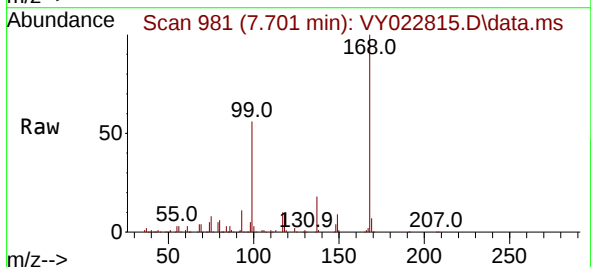
Instrument :
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ClientSampleId :
LAW-25-0093RE

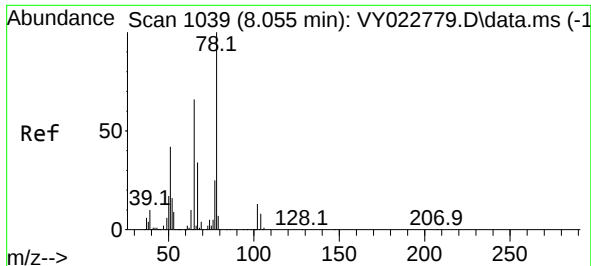
Tgt Ion: 43 Resp: 1869
Ion Ratio Lower Upper
43 100
72 19.7 22.9 34.3#



#31
Cyclohexane
Concen: 1.684 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.006 min
Lab File: VY022815.D
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Tgt Ion: 56 Resp: 9243
Ion Ratio Lower Upper
56 100
69 138.9 27.0 40.6#
84 130.3 72.6 109.0#

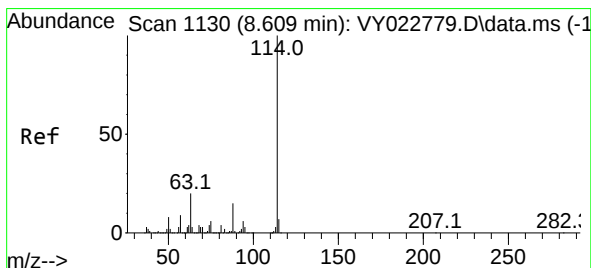
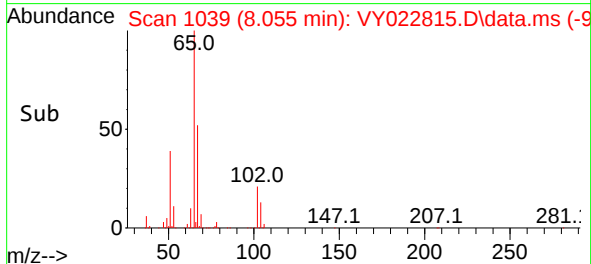
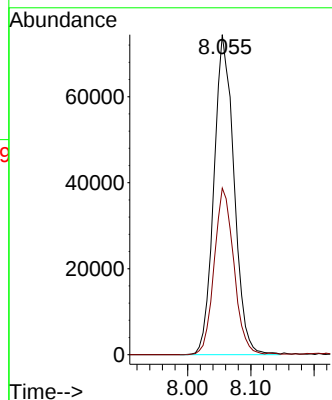
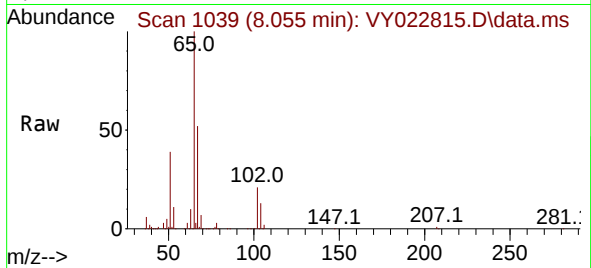




#33
 1,2-Dichloroethane-d4
 Concen: 51.296 ug/l
 RT: 8.055 min Scan# 1039
 Delta R.T. -0.012 min
 Lab File: VY022815.D
 Acq: 25 Jun 2025 11:24

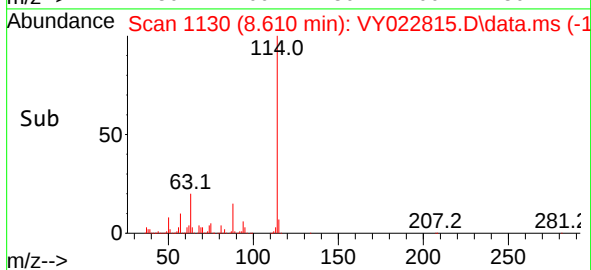
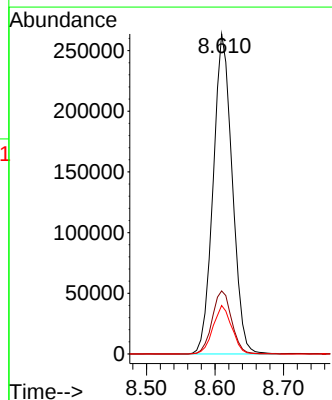
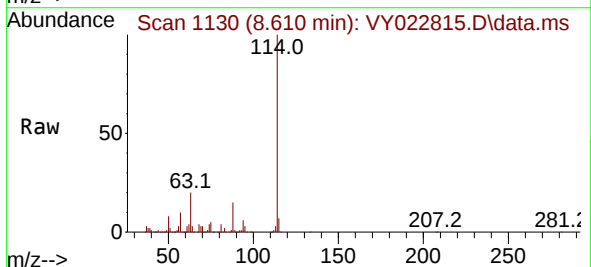
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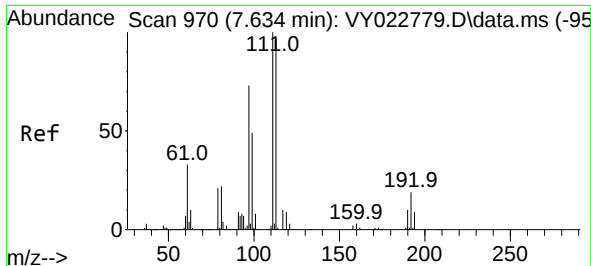
Tgt Ion: 65 Resp: 163895
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.610 min Scan# 1130
 Delta R.T. -0.006 min
 Lab File: VY022815.D
 Acq: 25 Jun 2025 11:24

Tgt Ion: 114 Resp: 509592
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.8
 88 15.1 0.0 27.8

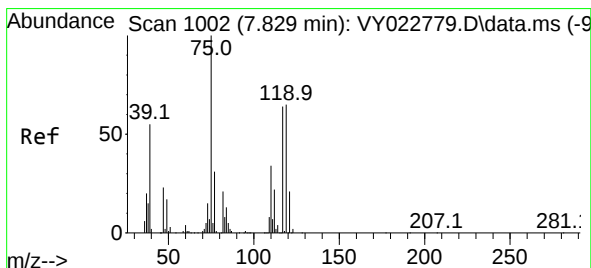
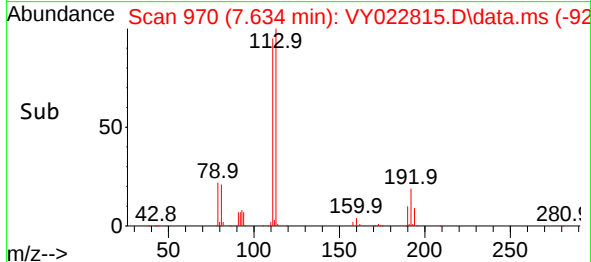
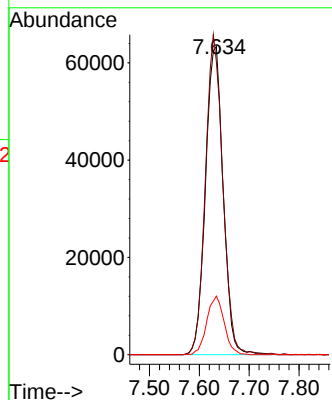
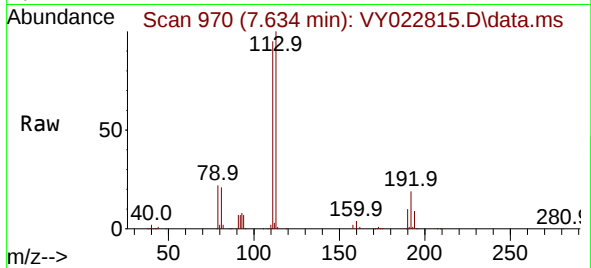




#35
Dibromofluoromethane
Concen: 50.456 ug/l
RT: 7.634 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

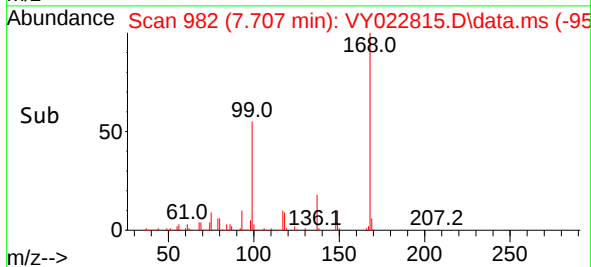
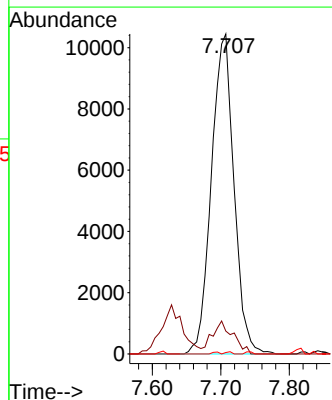
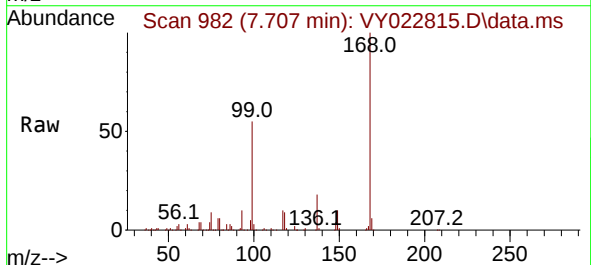
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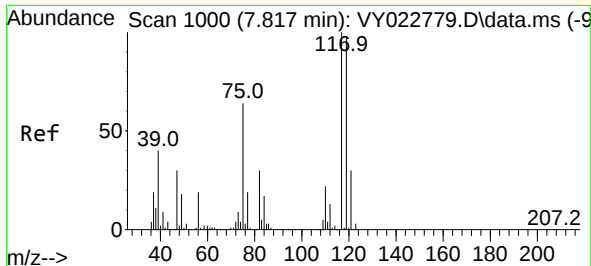
Tgt Ion:113 Resp: 156368
Ion Ratio Lower Upper
113 100
111 101.8 81.1 121.7
192 18.8 14.2 21.2



#36
1,1-Dichloropropene
Concen: 5.075 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.134 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 75 Resp: 23839
Ion Ratio Lower Upper
75 100
110 9.6 16.9 50.7#
77 0.0 24.8 37.2#

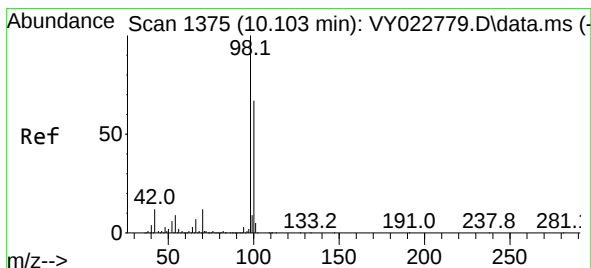
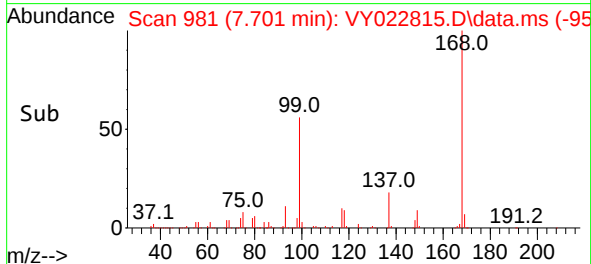
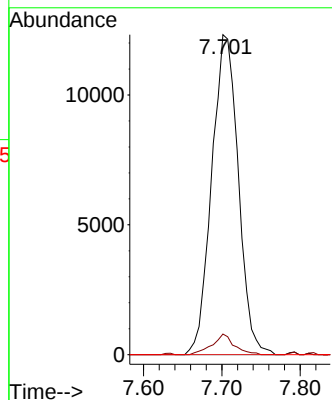
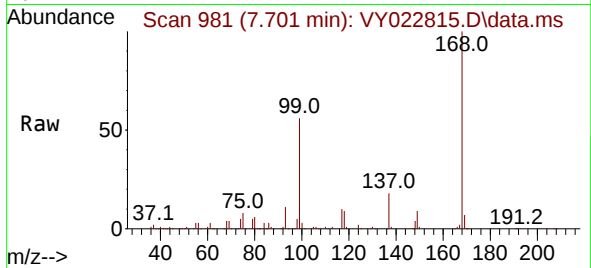




#38
Carbon Tetrachloride
Concen: 5.867 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

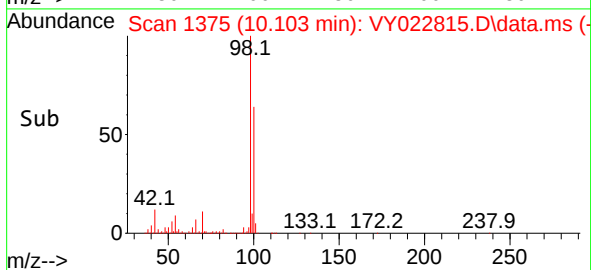
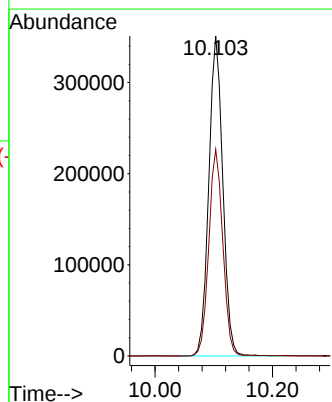
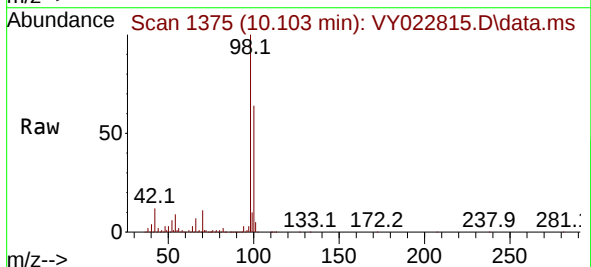
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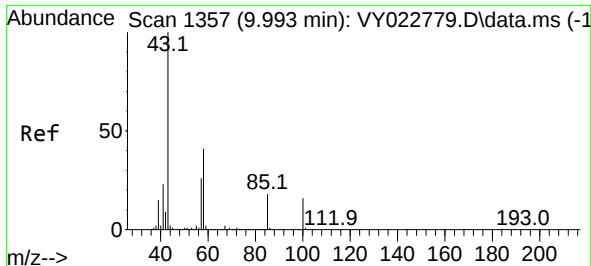
Tgt Ion:117 Resp: 29078
Ion Ratio Lower Upper
117 100
119 6.5 75.0 112.6#
121 0.0 25.0 37.4#



#50
Toluene-d8
Concen: 47.282 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 98 Resp: 581453
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 2.491 ug/l

RT: 9.994 min Scan# 1357

Delta R.T. -0.006 min

Lab File: VY022815.D

Acq: 25 Jun 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

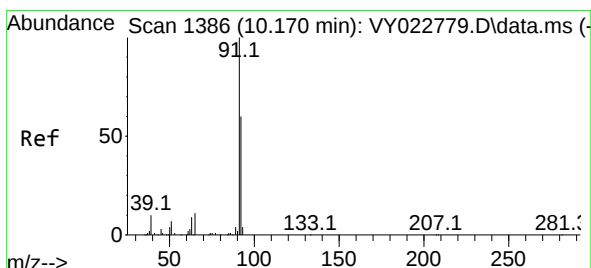
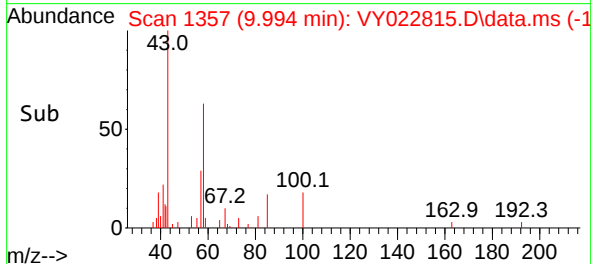
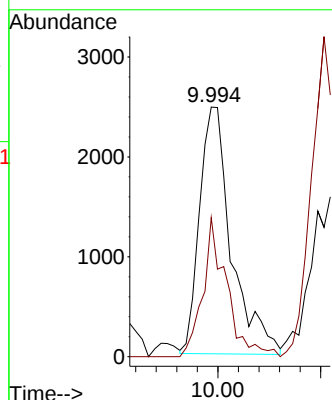
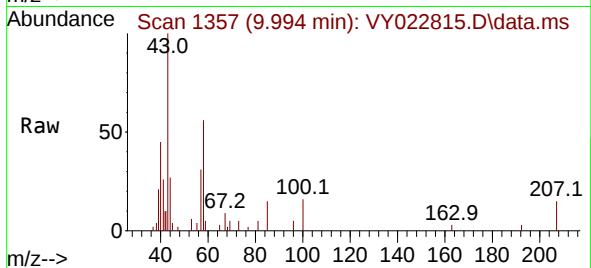
LAW-25-0093RE

Tgt Ion: 43 Resp: 5334

Ion Ratio Lower Upper

43 100

58 41.9 30.4 45.6



#52

Toluene

Concen: 5.282 ug/l

RT: 10.164 min Scan# 1385

Delta R.T. -0.012 min

Lab File: VY022815.D

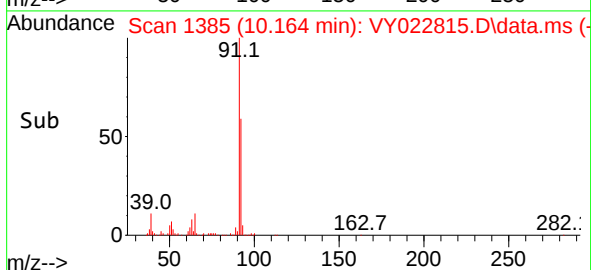
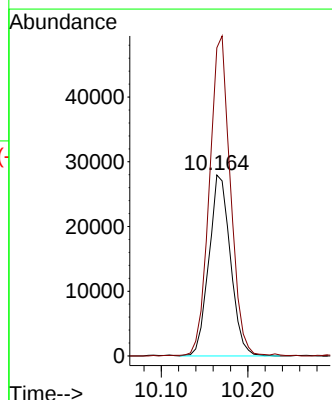
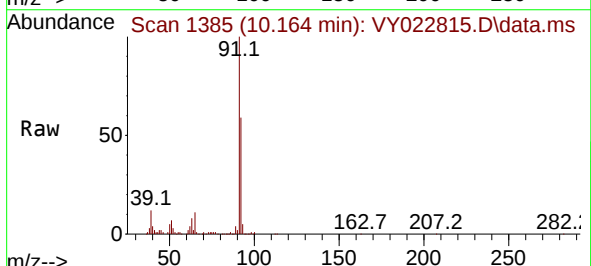
Acq: 25 Jun 2025 11:24

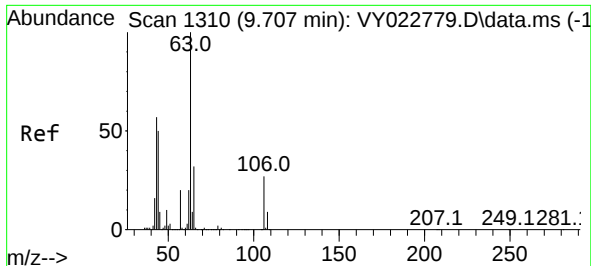
Tgt Ion: 92 Resp: 48126

Ion Ratio Lower Upper

92 100

91 173.2 139.0 208.4

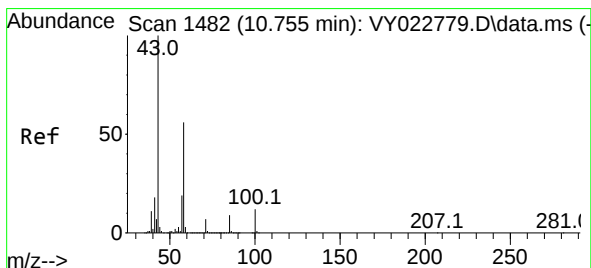
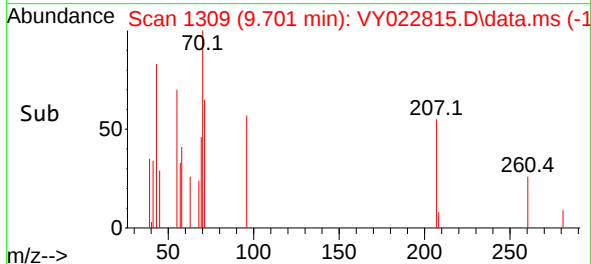
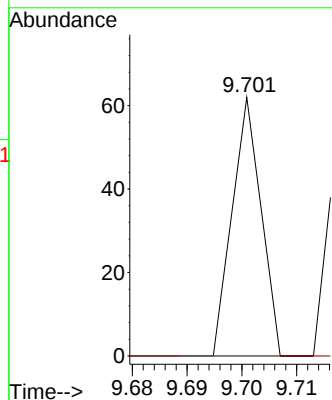
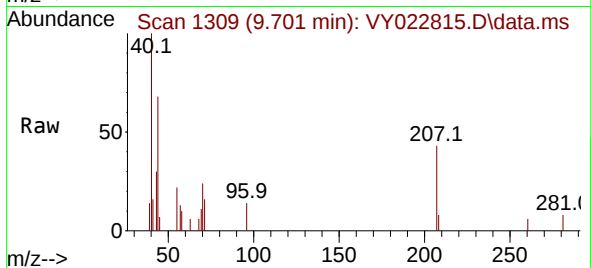




#58
2-Chloroethyl Vinyl ether
Concen: 15.667 ug/l
RT: 9.701 min Scan# 1310
Delta R.T. -0.012 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

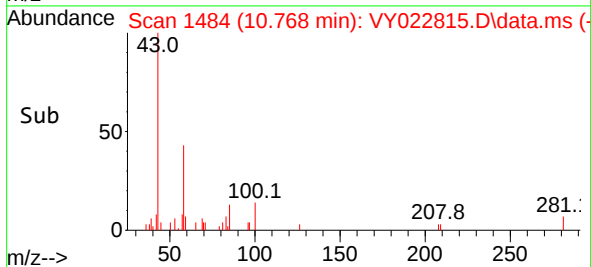
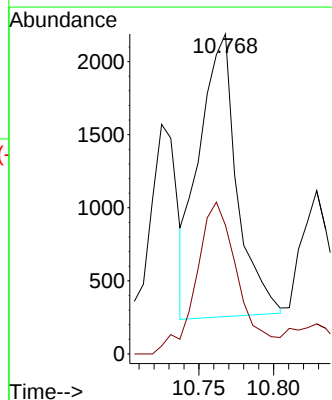
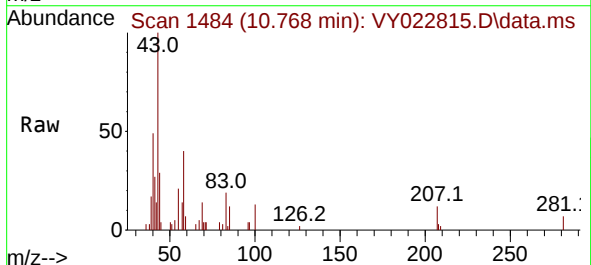
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

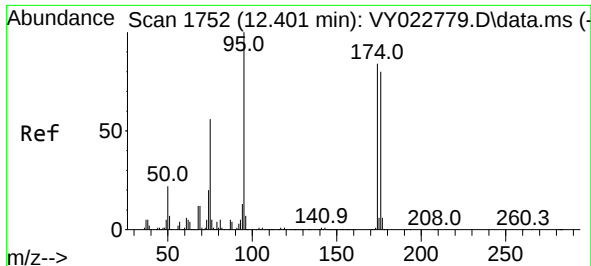
Tgt Ion: 63 Resp: 23
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#59
2-Hexanone
Concen: 2.346 ug/l
RT: 10.768 min Scan# 1484
Delta R.T. 0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 43 Resp: 3415
Ion Ratio Lower Upper
43 100
58 59.7 27.3 81.8

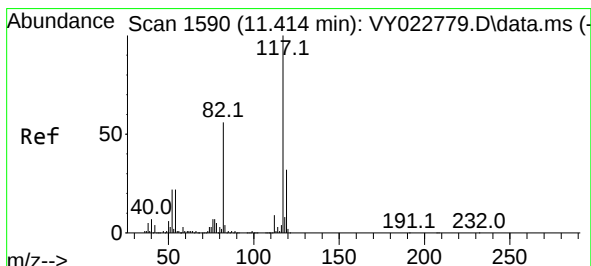
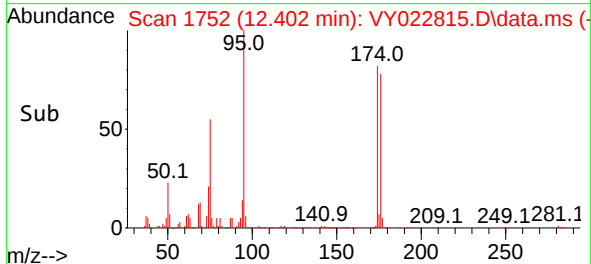
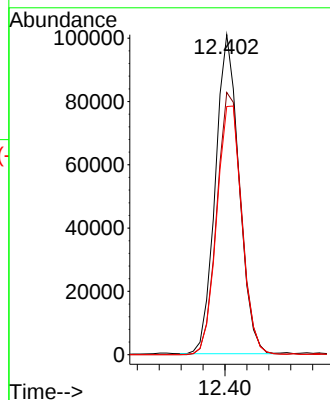
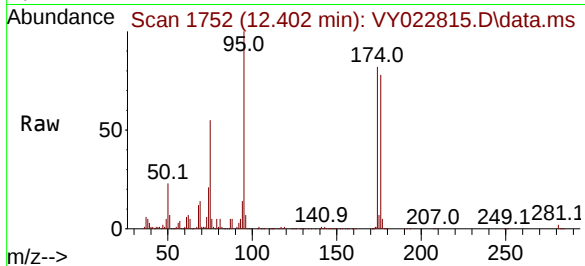




#62
4-Bromofluorobenzene
Concen: 38.216 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

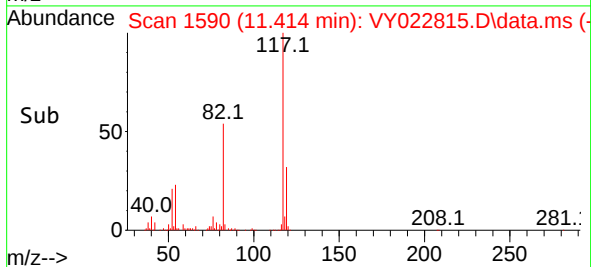
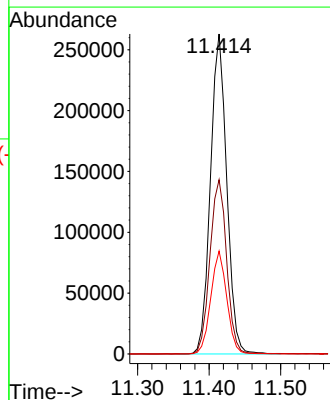
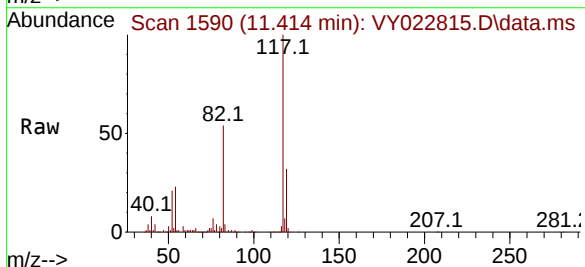
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

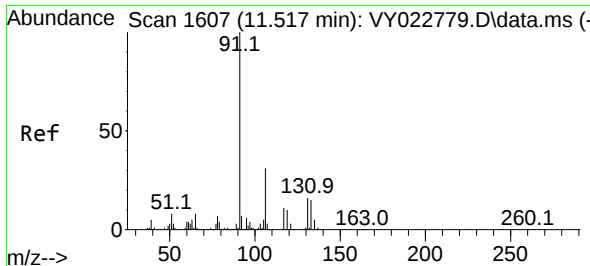
Tgt Ion: 95 Resp: 151079
Ion Ratio Lower Upper
95 100
174 86.1 0.0 170.0
176 83.0 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 117 Resp: 415699
Ion Ratio Lower Upper
117 100
82 54.4 44.6 66.8
119 32.1 25.4 38.0





#67

Ethyl Benzene

Concen: 1.143 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY022815.D

Acq: 25 Jun 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

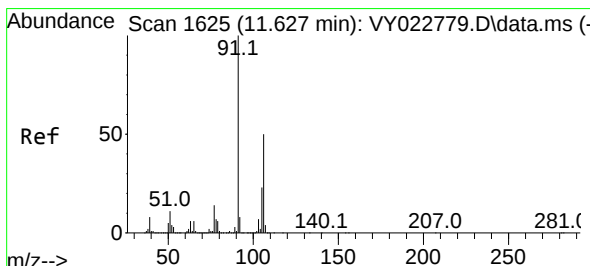
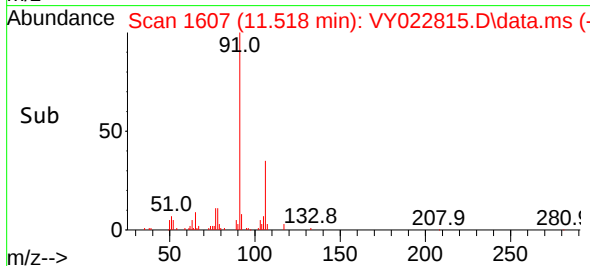
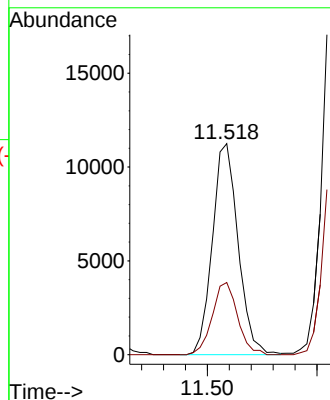
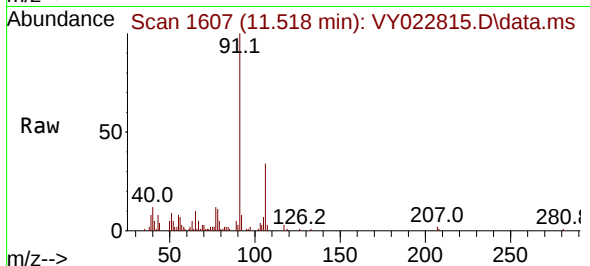
LAW-25-0093RE

Tgt Ion: 91 Resp: 18339

Ion Ratio Lower Upper

91 100

106 34.2 24.2 36.4



#68

m/p-Xylenes

Concen: 4.999 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY022815.D

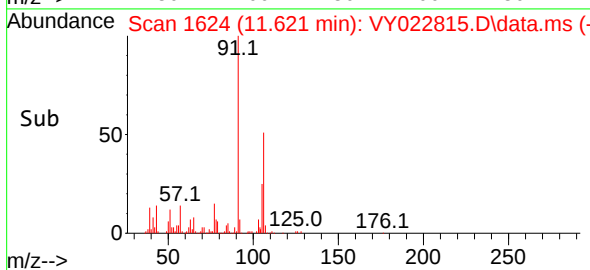
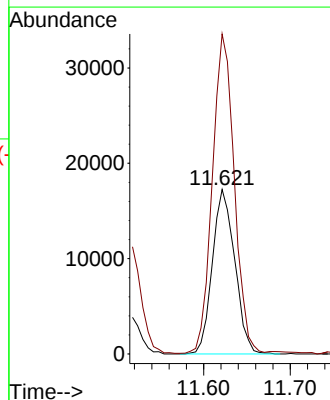
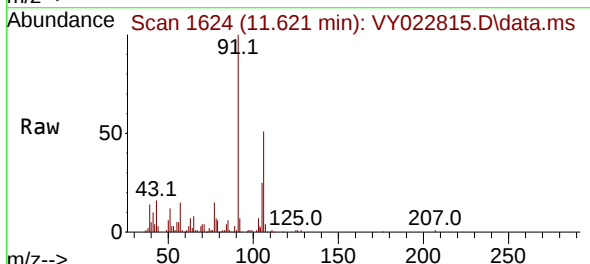
Acq: 25 Jun 2025 11:24

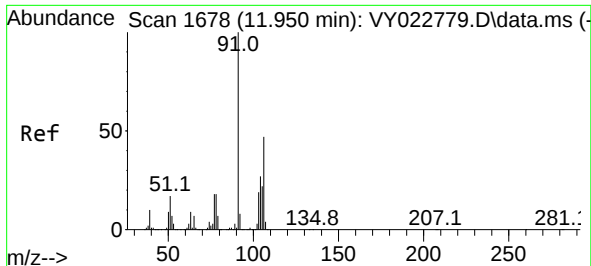
Tgt Ion: 106 Resp: 31013

Ion Ratio Lower Upper

106 100

91 189.4 159.4 239.0

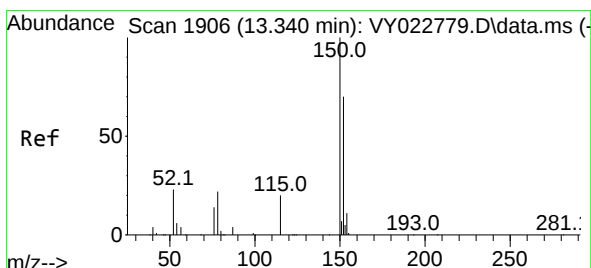
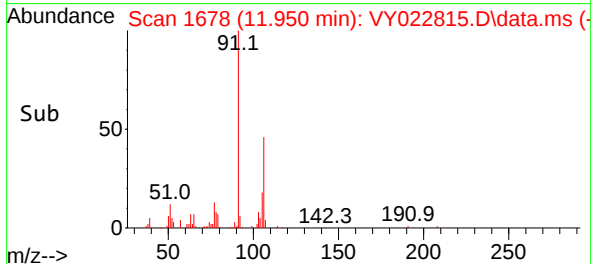
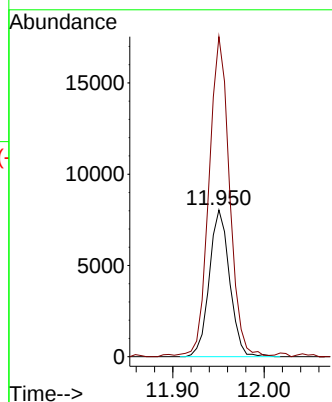
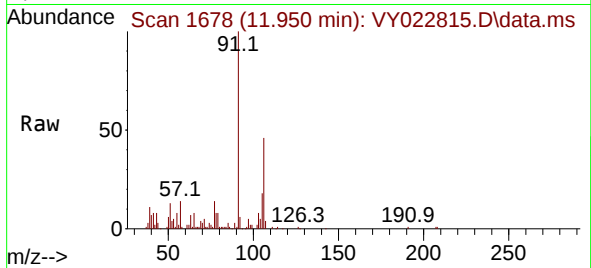




#69
o-Xylene
Concen: 2.122 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

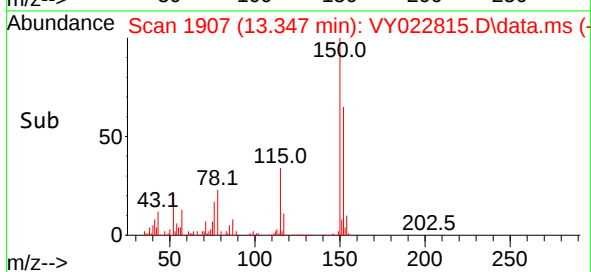
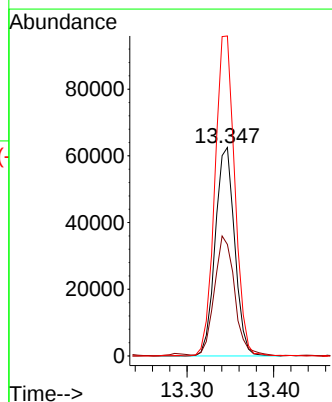
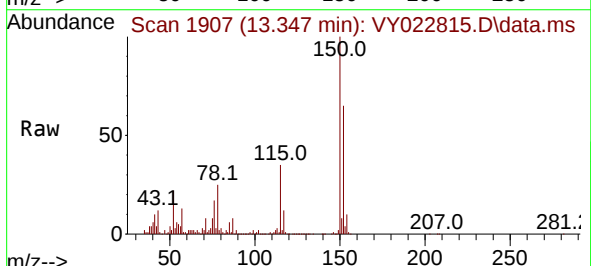
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

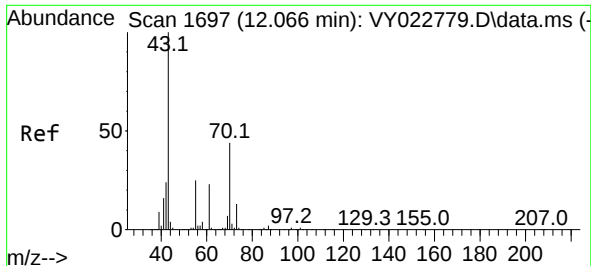
Tgt Ion:106 Resp: 12402
Ion Ratio Lower Upper
106 100
91 221.5 105.8 317.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion:152 Resp: 97432
Ion Ratio Lower Upper
152 100
115 59.5 28.9 86.7
150 157.3 0.0 349.6

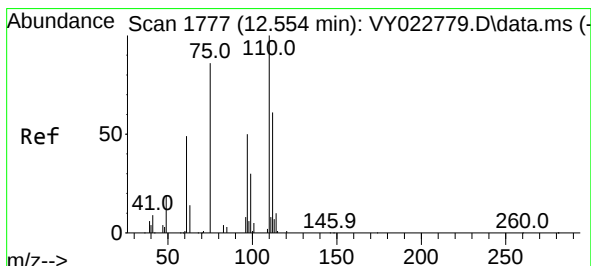
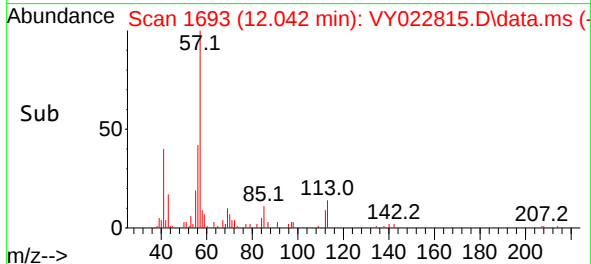
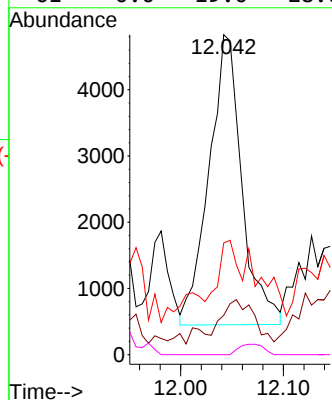
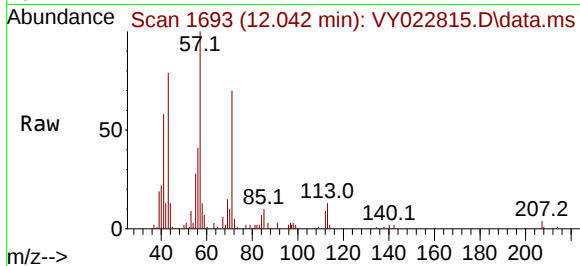




#74
N-amy1 acetate
Concen: 6.018 ug/l
RT: 12.042 min Scan# 1752
Delta R.T. -0.030 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

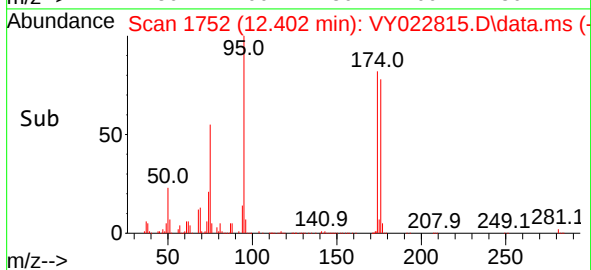
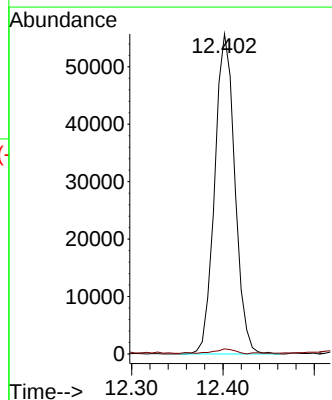
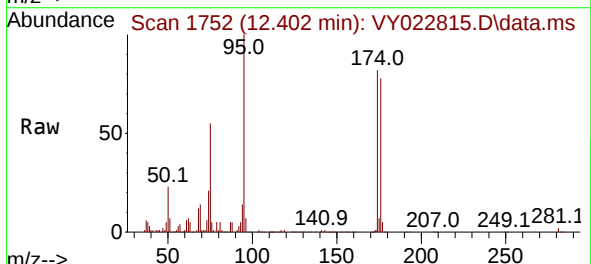
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

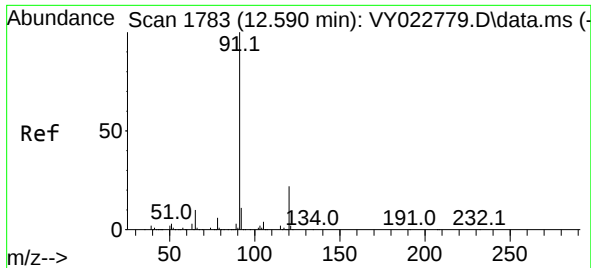
Tgt Ion: 43	Resp: 9734
Ion Ratio	Lower Upper
43 100	
70 13.6	34.2 51.2#
55 11.5	18.2 27.4#
61 0.0	19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 85.805 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 75	Resp: 85350
Ion Ratio	Lower Upper
75 100	
77 1.6	0.0 0.0#

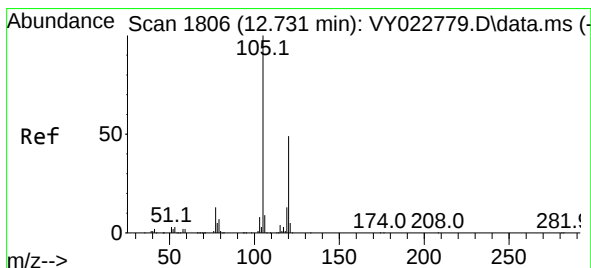
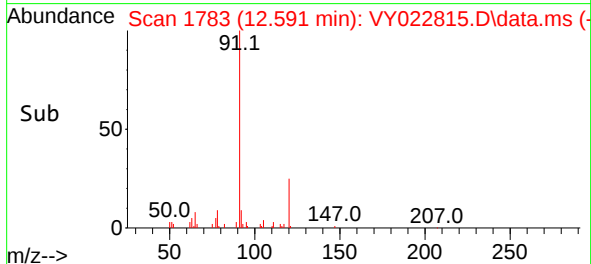
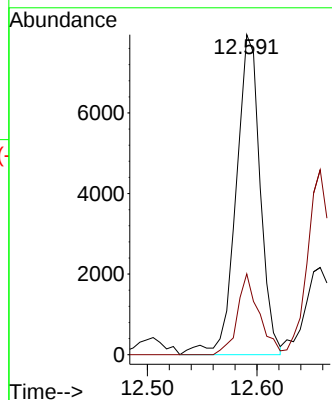
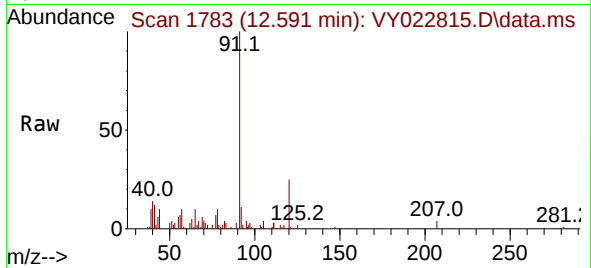




#78
n-propylbenzene
Concen: 1.393 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

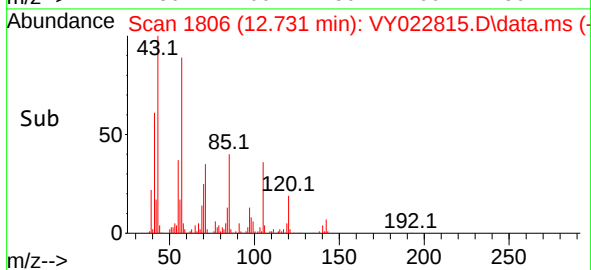
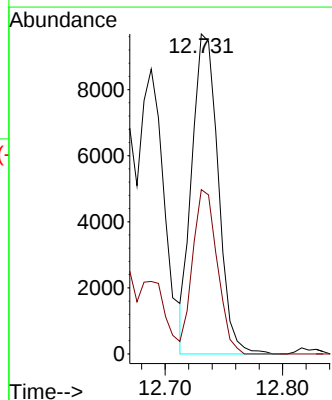
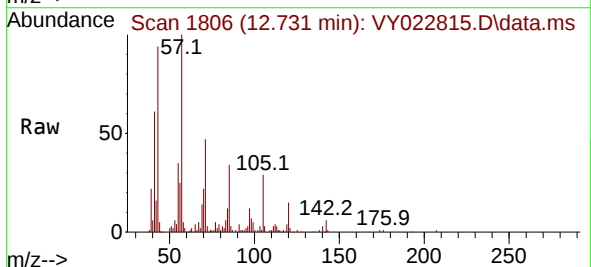
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

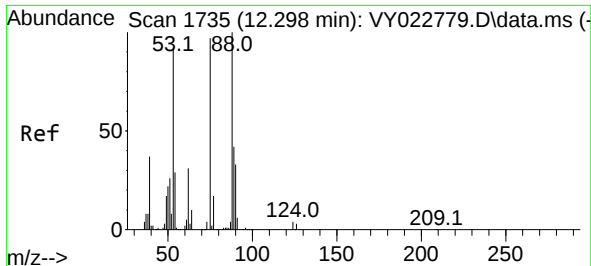
Tgt Ion: 91 Resp: 12116
Ion Ratio Lower Upper
91 100
120 22.6 10.8 32.4



#80
1,3,5-Trimethylbenzene
Concen: 2.581 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 105 Resp: 15012
Ion Ratio Lower Upper
105 100
120 48.2 24.1 72.4

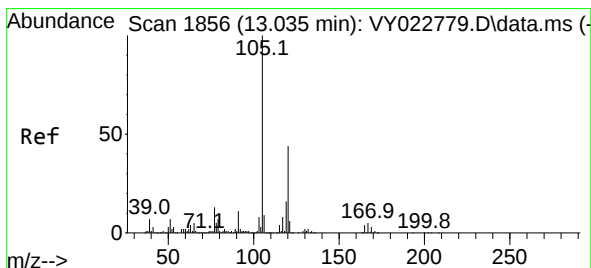
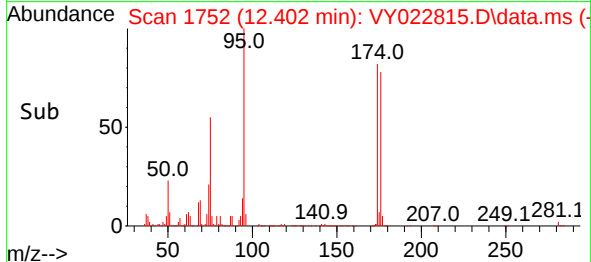
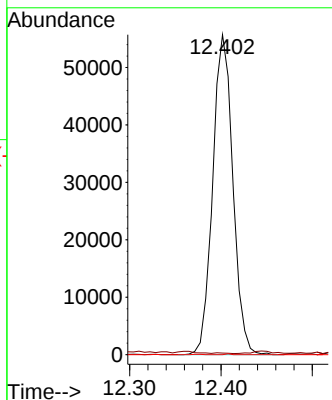
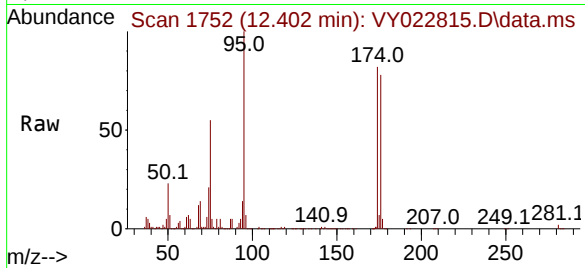




#81
trans-1,4-Dichloro-2-butene
Concen: 216.777 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

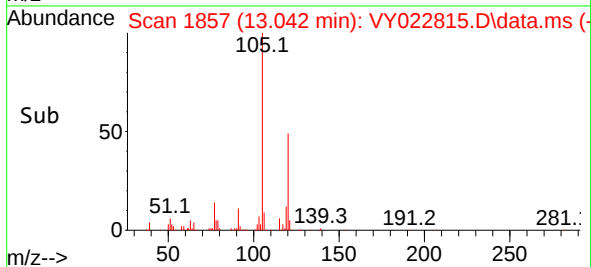
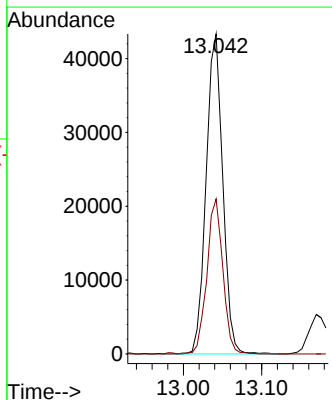
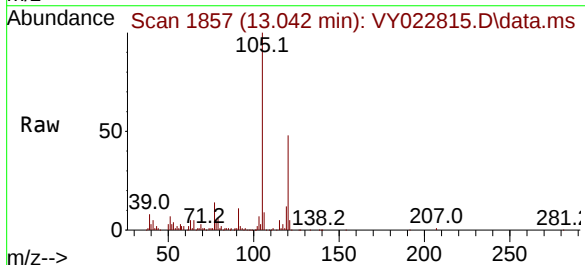
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

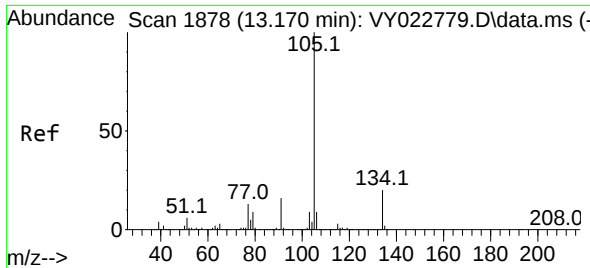
Tgt Ion: 75 Resp: 85350
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.1 35.7 53.5#



#84
1,2,4-Trimethylbenzene
Concen: 10.948 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 105 Resp: 63760
Ion Ratio Lower Upper
105 100
120 46.5 22.7 68.1

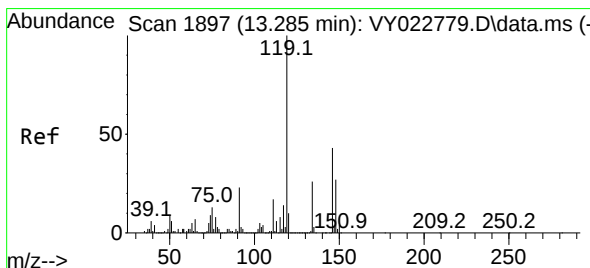
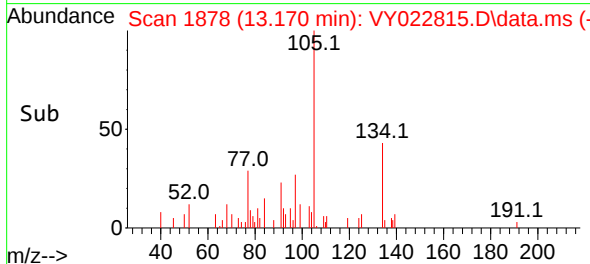
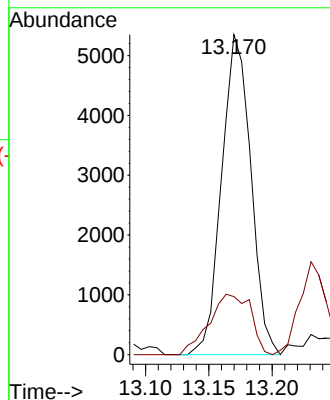
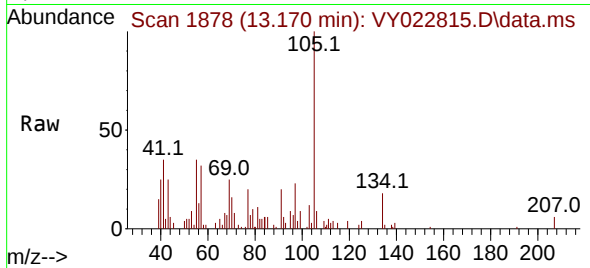




#85
 sec-Butylbenzene
 Concen: 1.113 ug/l
 RT: 13.170 min Scan# 1878
 Delta R.T. -0.006 min
 Lab File: VY022815.D
 Acq: 25 Jun 2025 11:24

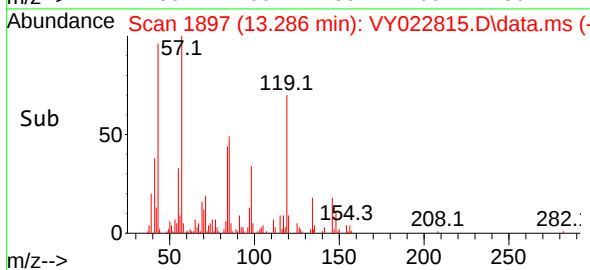
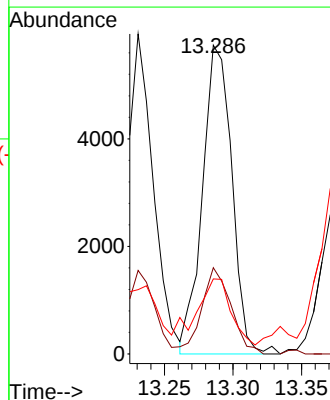
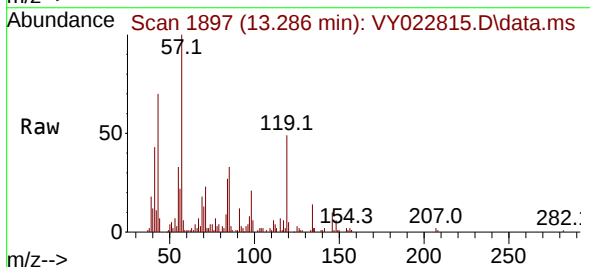
Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0093RE

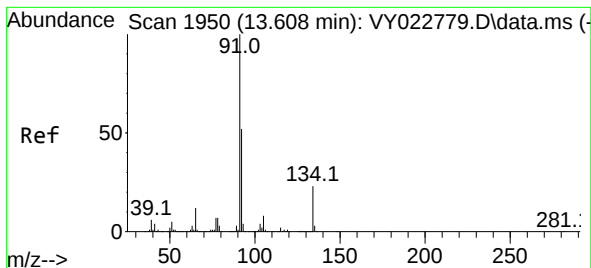
Tgt Ion:105 Resp: 8591
 Ion Ratio Lower Upper
 105 100
 134 26.9 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 1.335 ug/l
 RT: 13.286 min Scan# 1897
 Delta R.T. -0.006 min
 Lab File: VY022815.D
 Acq: 25 Jun 2025 11:24

Tgt Ion:119 Resp: 8575
 Ion Ratio Lower Upper
 119 100
 134 27.6 13.1 39.1
 91 24.9 11.6 34.8

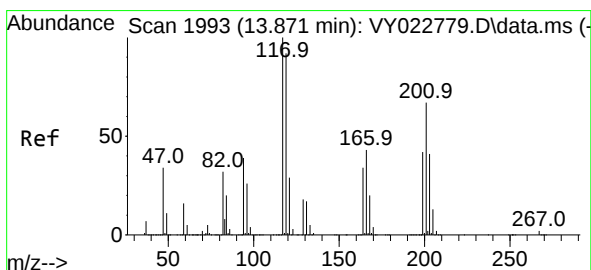
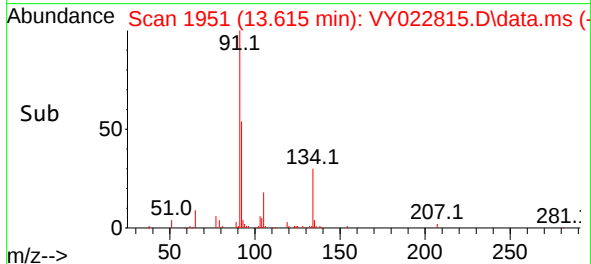
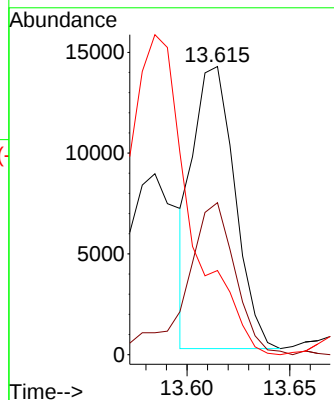
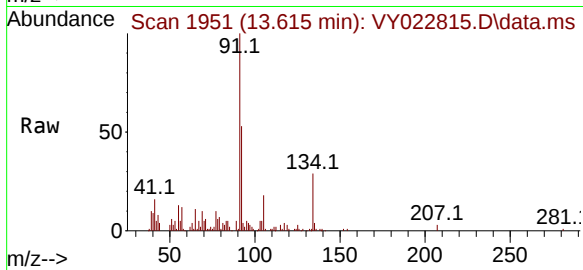




#89
n-Butylbenzene
Concen: 3.261 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

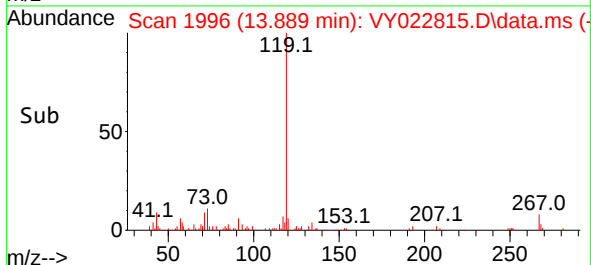
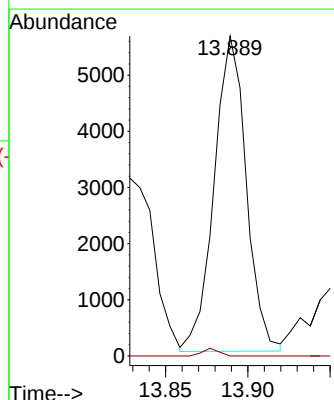
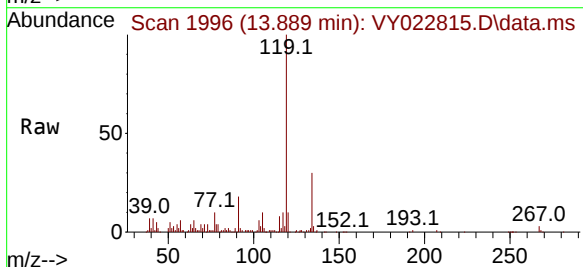
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

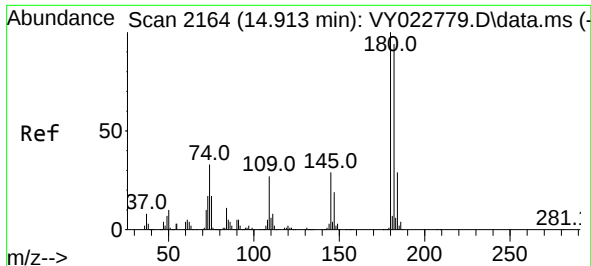
Tgt Ion: 91 Resp: 19700
Ion Ratio Lower Upper
91 100
92 63.9 25.9 77.8
134 0.0 12.0 36.1#



#90
Hexachloroethane
Concen: 5.959 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

Tgt Ion: 117 Resp: 7624
Ion Ratio Lower Upper
117 100
201 1.2 34.0 102.0#

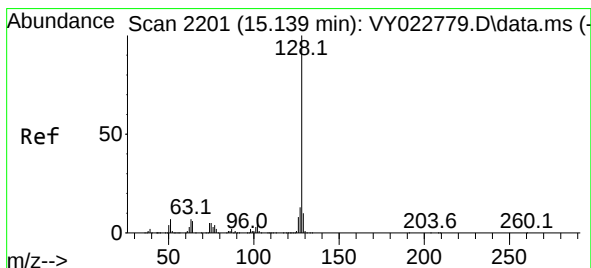
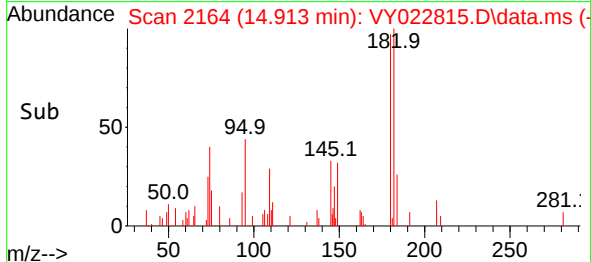
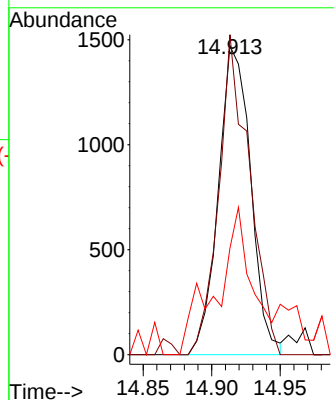
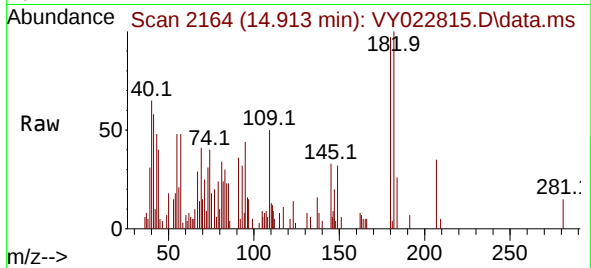




#93
1,2,4-Trichlorobenzene
Concen: 1.479 ug/l
RT: 14.913 min Scan# 2164
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

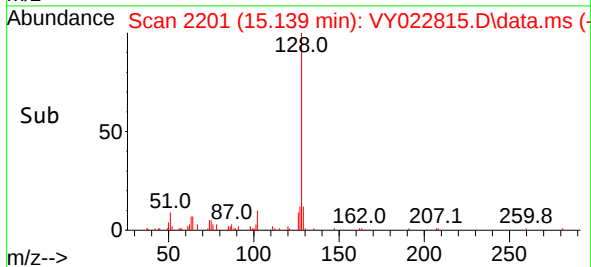
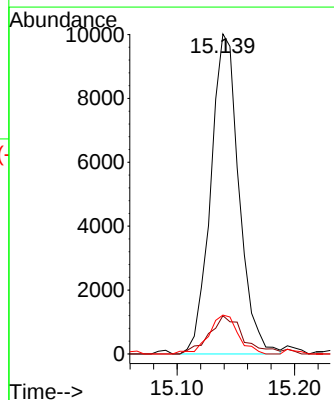
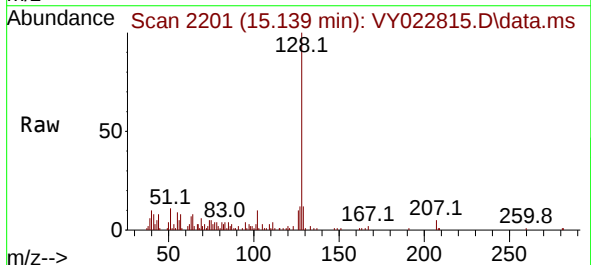
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093RE

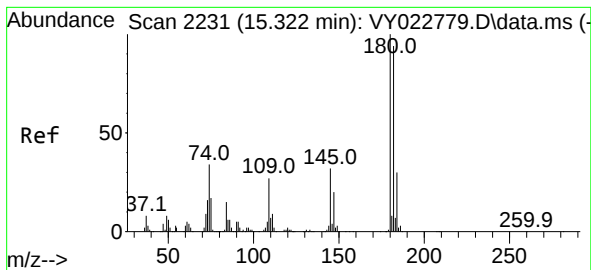
Tgt Ion:180	Resp:	2414
Ion Ratio	Lower	Upper
180	100	
182	98.4	48.4 145.3
145	34.2	15.5 46.5



#95
Naphthalene
Concen: 5.684 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. -0.006 min
Lab File: VY022815.D
Acq: 25 Jun 2025 11:24

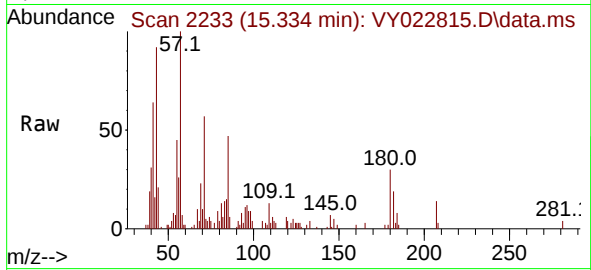
Tgt Ion:128	Resp:	16777
Ion Ratio	Lower	Upper
128	100	
127	14.8	10.4 15.6
129	12.6	8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 1.957 ug/l
 RT: 15.334 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY022815.D
 Acq: 25 Jun 2025 11:24

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0093RE



Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.8	47.1	141.3
145	0.0	15.2	45.6

