

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111725\
 Data File : VW032464.D
 Acq On : 17 Nov 2025 17:30
 Operator : SY/MD
 Sample : Q3640-01
 Misc : 5.34g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LAW-25-0179

Quant Time: Nov 18 03:07:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

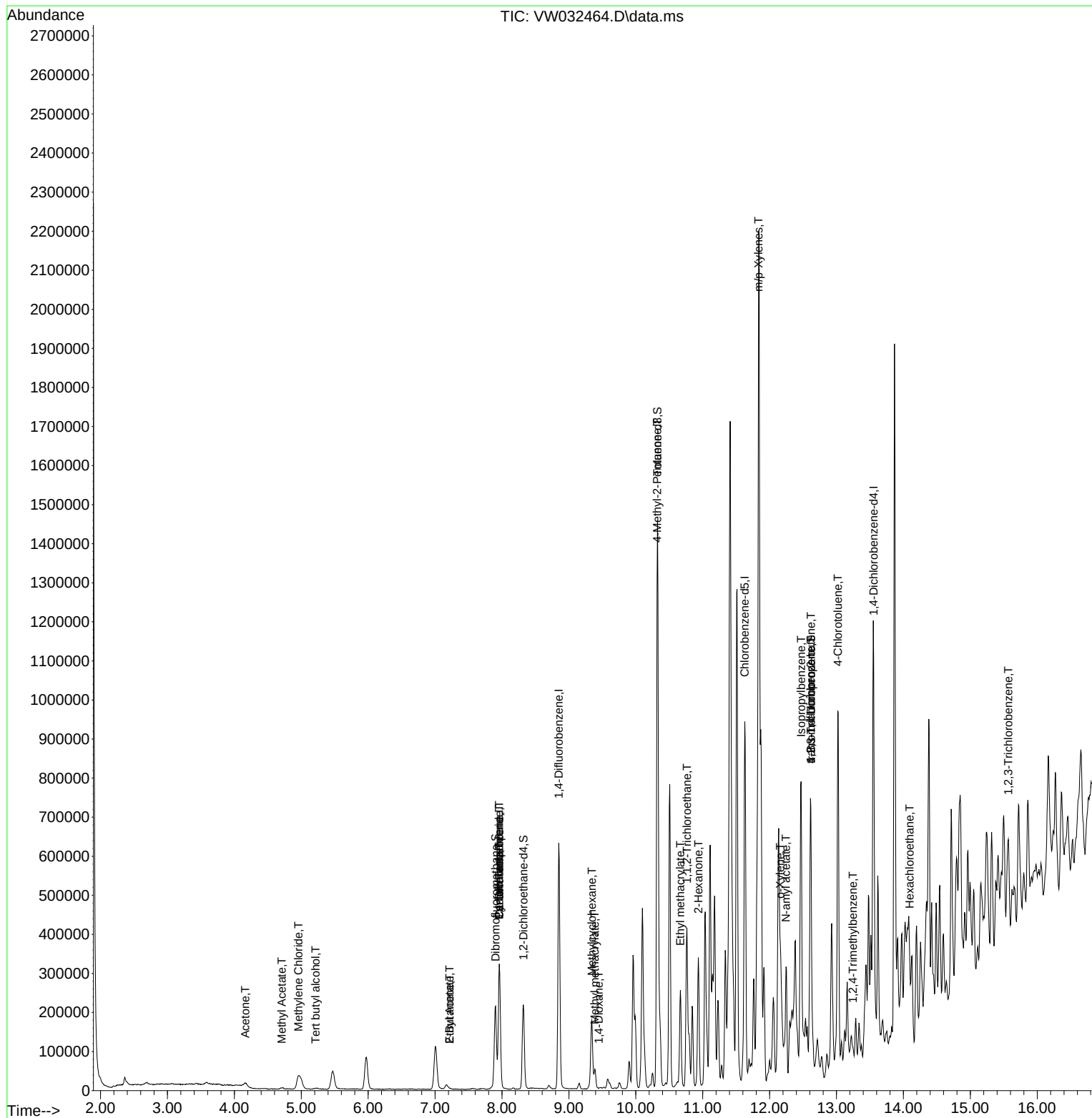
Internal Standards						
1) Pentafluorobenzene	7.959	168	224079	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	526624	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	531377	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	197643	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	177020	61.276	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 122.560%			
35) Dibromofluoromethane	7.904	113	160547	50.918	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 101.840%			
50) Toluene-d8	10.325	98	613536	50.722	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.440%			
62) 4-Bromofluorobenzene	12.617	95	212576	46.522	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 93.040%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.216	59	2508	10.040	ug/l #	72
16) Acetone	4.161	43	12889	14.913	ug/l #	83
18) Methyl Acetate	4.710	43	8688	4.059	ug/l	99
20) Methylene Chloride	4.960	84	26201	8.477	ug/l	99
25) 2-Butanone	7.215	43	4058	3.187	ug/l #	62
31) Cyclohexane	7.959	56	7395	1.547	ug/l #	6
36) 1,1-Dichloropropene	7.959	75	19427	4.182	ug/l #	53
37) Ethyl Acetate	7.215	43	4058	1.175	ug/l #	72
38) Carbon Tetrachloride	7.959	117	23690	5.739	ug/l #	17
39) Methylcyclohexane	9.343	83	59901	9.953	ug/l #	84
48) Methyl methacrylate	9.386	41	8426	2.899	ug/l #	16
49) 1,4-Dioxane	9.447	88	58	1.902	ug/l #	1
51) 4-Methyl-2-Pentanone	10.319	43	27451	8.118	ug/l #	70
55) 1,1,2-Trichloroethane	10.764	97	150446	50.378	ug/l #	20
56) Ethyl methacrylate	10.666	69	25086	5.475	ug/l #	7
59) 2-Hexanone	10.934	43	126503	51.132	ug/l #	29
68) m/p-Xylenes	11.837	106	25732	3.458	ug/l	89
69) o-Xylene	12.160	106	17703	2.485	ug/l	95
73) Isopropylbenzene	12.471	105	31278	2.155	ug/l #	66
74) N-amyl acetate	12.245	43	65597	13.005	ug/l #	43
76) 1,2,3-Trichloropropane	12.617	75	111271	41.059	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	111271	94.044	ug/l #	11
82) 4-Chlorotoluene	13.019	91	106493	9.488	ug/l #	44
84) 1,2,4-Trimethylbenzene	13.245	105	22453	1.843	ug/l	93
90) Hexachloroethane	14.092	117	2332	1.010	ug/l #	18
96) 1,2,3-Trichlorobenzene	15.568	180	12221	3.536	ug/l #	17

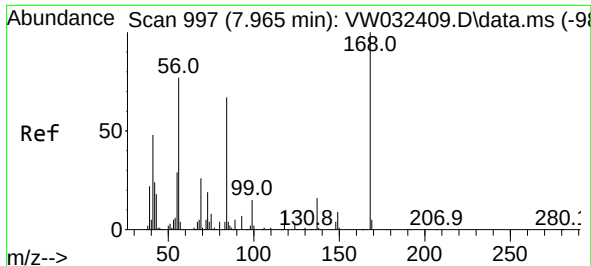
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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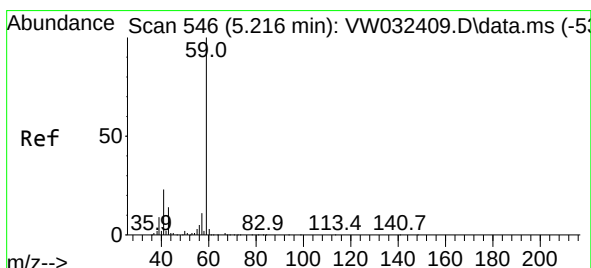
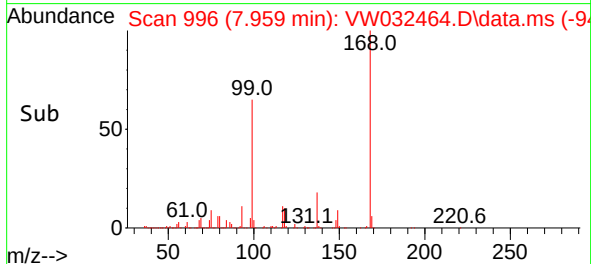
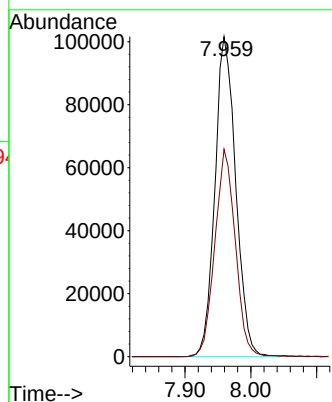
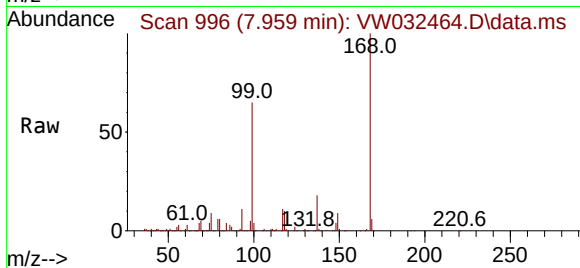




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

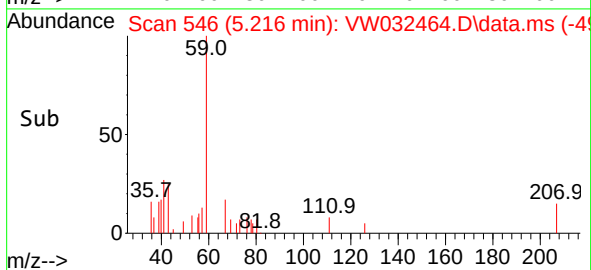
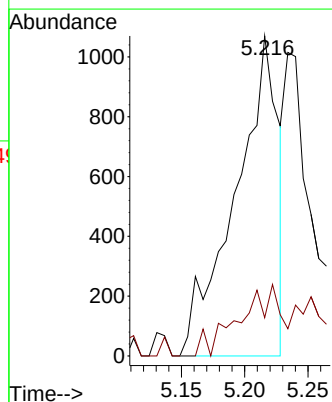
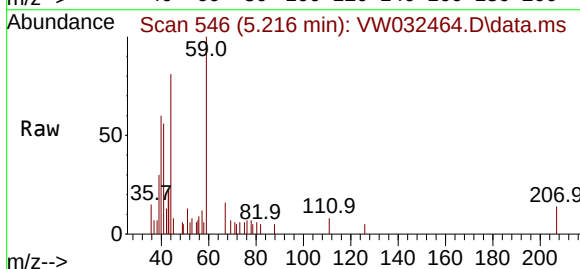
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

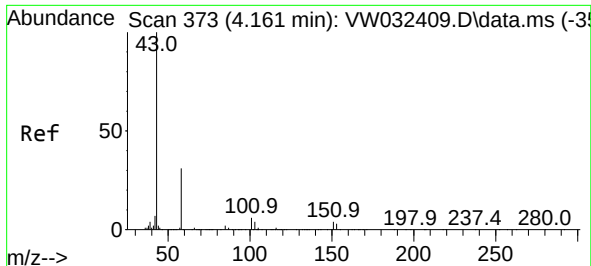
Tgt Ion:168 Resp: 224079
Ion Ratio Lower Upper
168 100
99 64.8 45.4 68.2



#11
Tert butyl alcohol
Concen: 10.040 ug/l
RT: 5.216 min Scan# 546
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 59 Resp: 2508
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

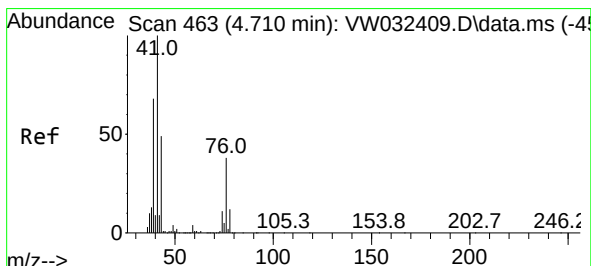
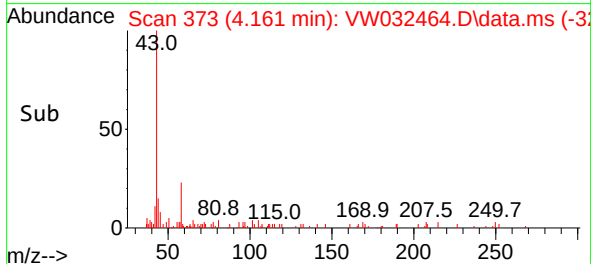
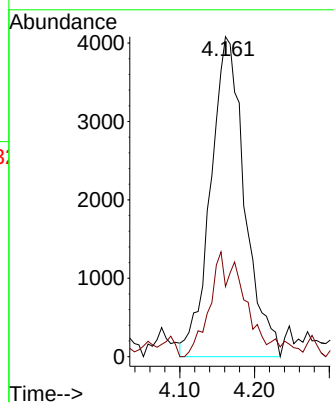
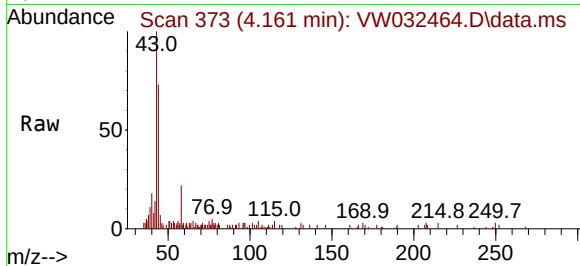




#16
Acetone
Concen: 14.913 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

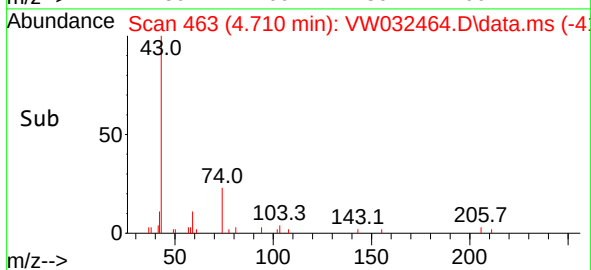
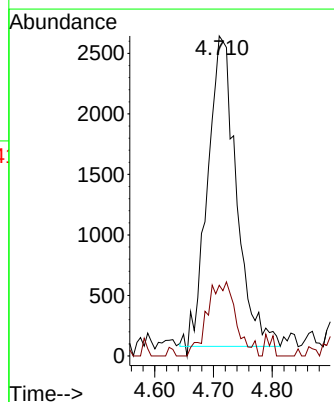
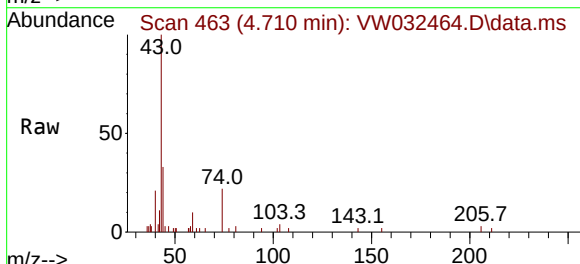
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

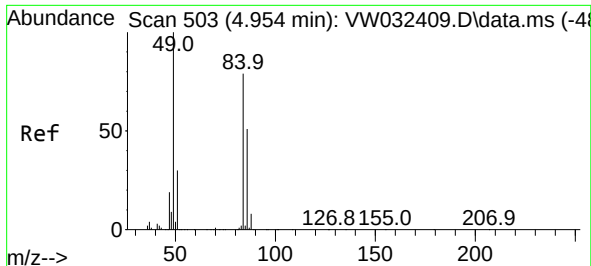
Tgt Ion: 43 Resp: 12889
Ion Ratio Lower Upper
43 100
58 21.9 24.8 37.2#



#18
Methyl Acetate
Concen: 4.059 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 43 Resp: 8688
Ion Ratio Lower Upper
43 100
74 24.0 18.9 28.3

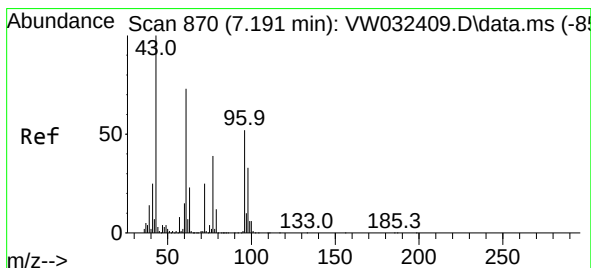
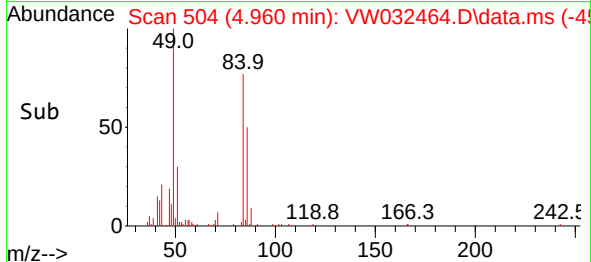
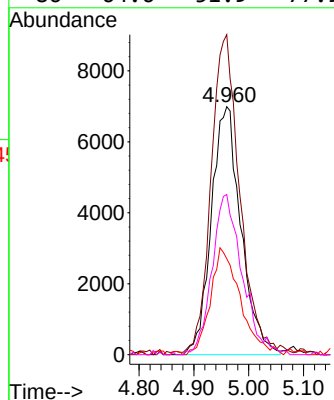
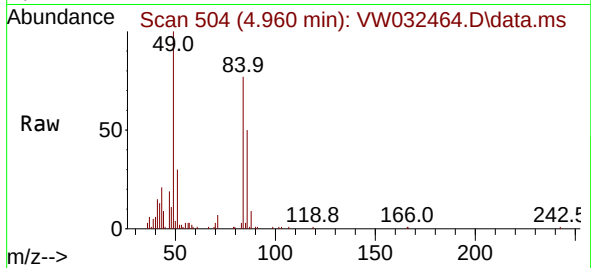




#20
Methylene Chloride
Concen: 8.477 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

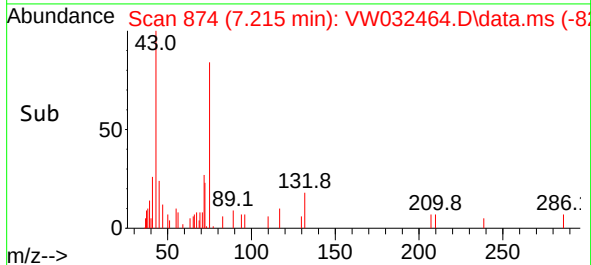
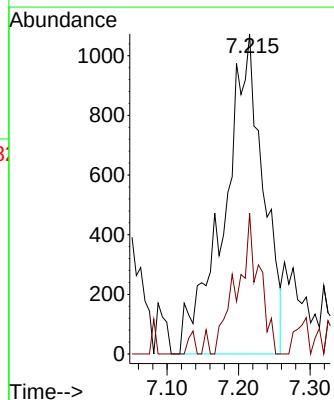
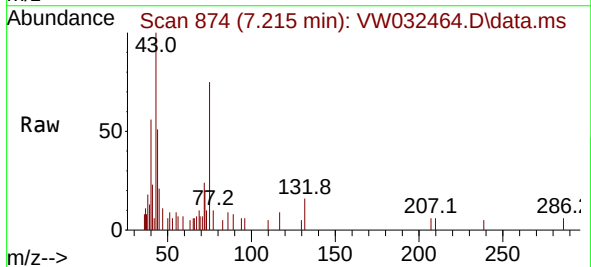
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

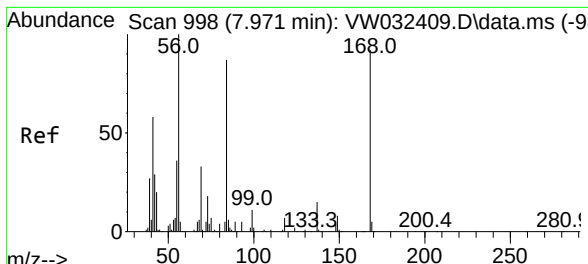
Tgt Ion: 84 Resp: 26201
Ion Ratio Lower Upper
84 100
49 128.1 101.5 152.3
51 37.8 30.6 46.0
86 64.6 51.9 77.9



#25
2-Butanone
Concen: 3.187 ug/l
RT: 7.215 min Scan# 874
Delta R.T. 0.024 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 43 Resp: 4058
Ion Ratio Lower Upper
43 100
72 44.0 20.0 30.0#

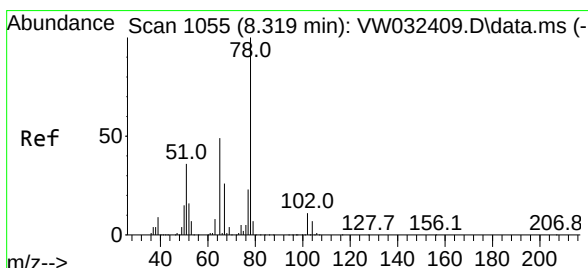
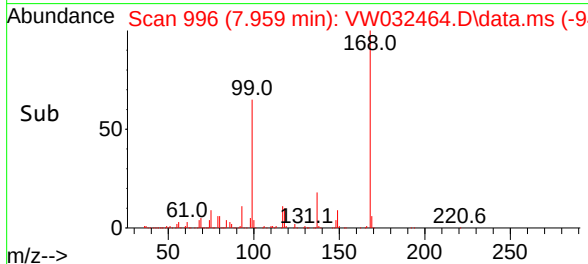
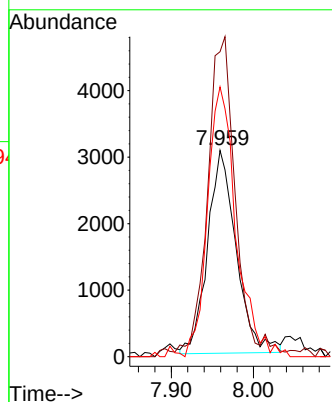
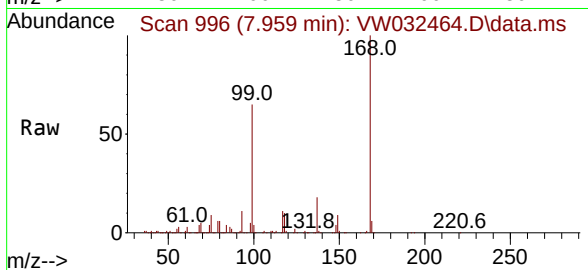




#31
Cyclohexane
Concen: 1.547 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

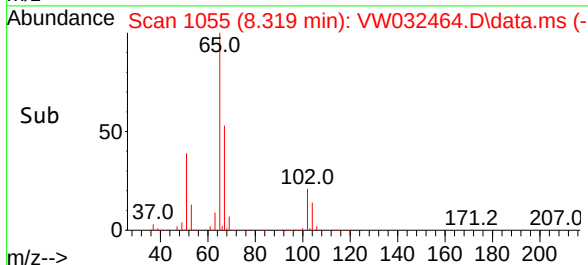
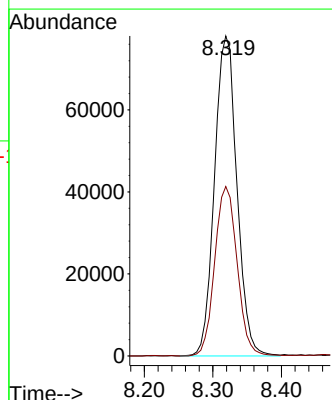
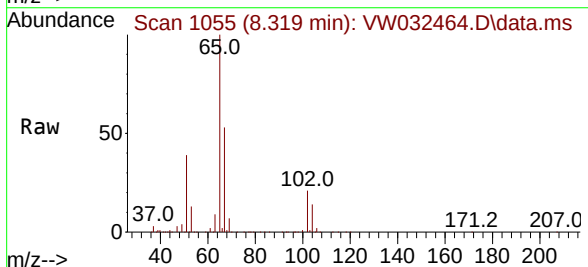
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

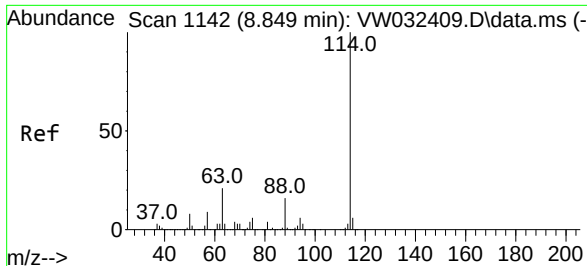
Tgt Ion: 56	Resp: 7395
Ion Ratio	Lower Upper
56 100	
69 150.1	26.5 39.7#
84 133.8	69.6 104.4#



#33
1,2-Dichloroethane-d4
Concen: 61.276 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 65	Resp: 177020
Ion Ratio	Lower Upper
65 100	
67 53.0	0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

LAW-25-0179

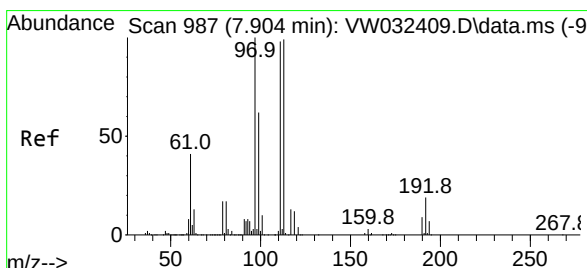
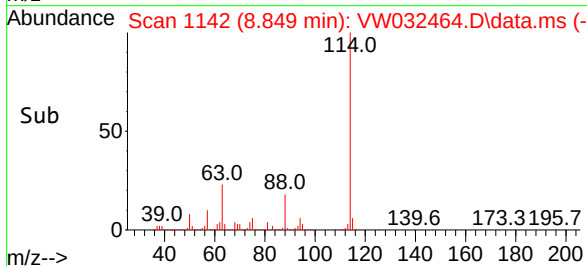
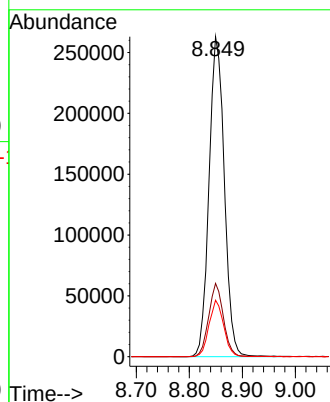
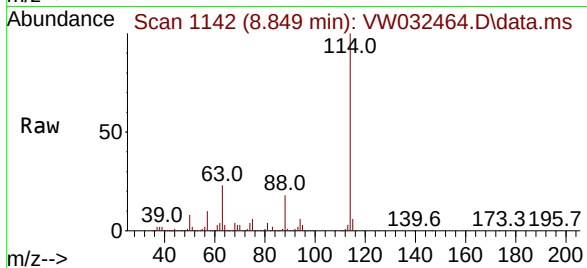
Tgt Ion:114 Resp: 526624

Ion Ratio Lower Upper

114 100

63 22.9 0.0 41.8

88 17.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.918 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

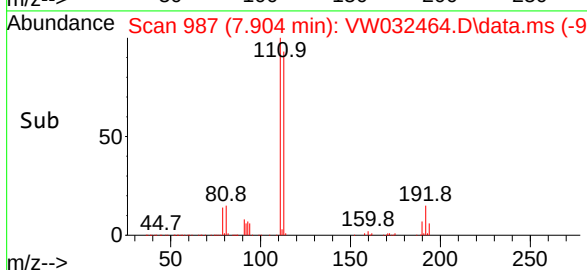
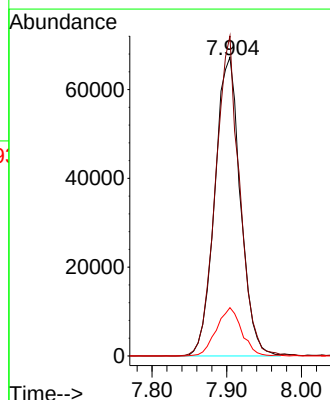
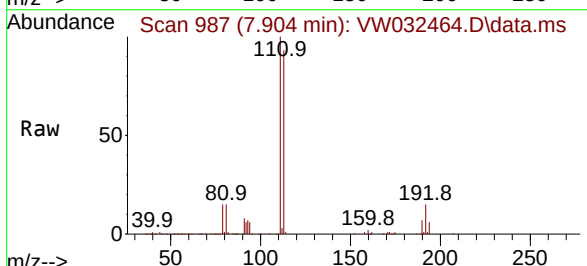
Tgt Ion:113 Resp: 160547

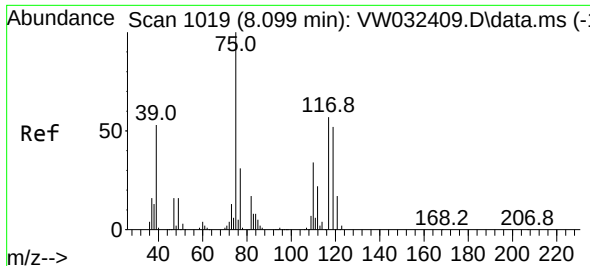
Ion Ratio Lower Upper

113 100

111 100.8 83.1 124.7

192 16.0 13.4 20.2

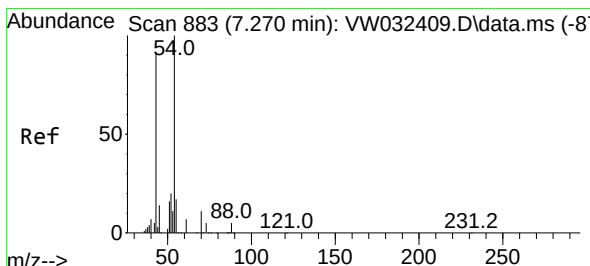
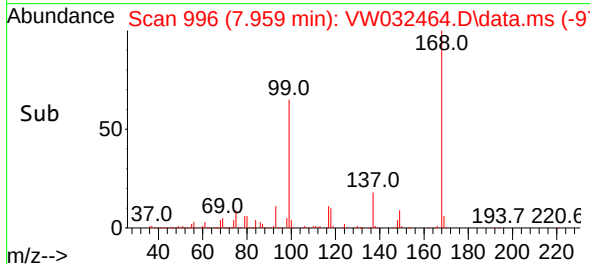
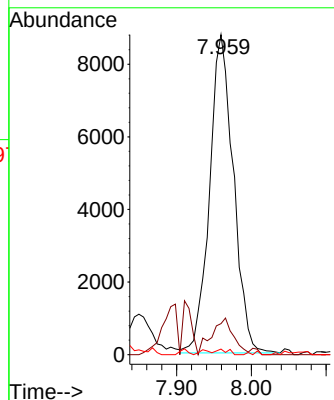
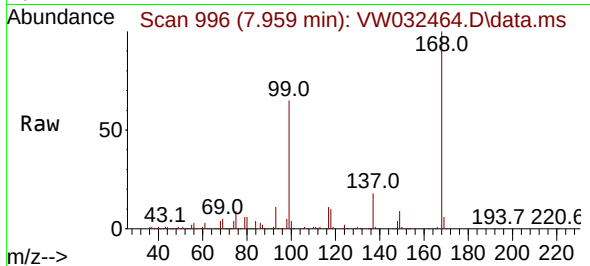




#36
 1,1-Dichloropropene
 Concen: 4.182 ug/l
 RT: 7.959 min Scan# 91
 Delta R.T. -0.140 min
 Lab File: VW032464.D
 Acq: 17 Nov 2025 17:30

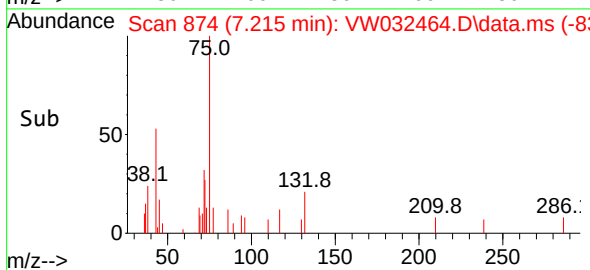
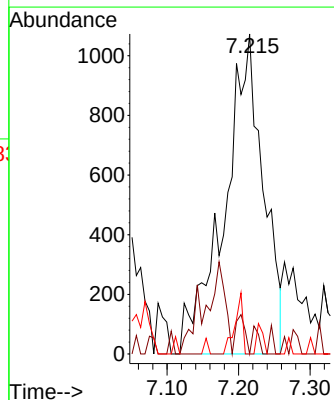
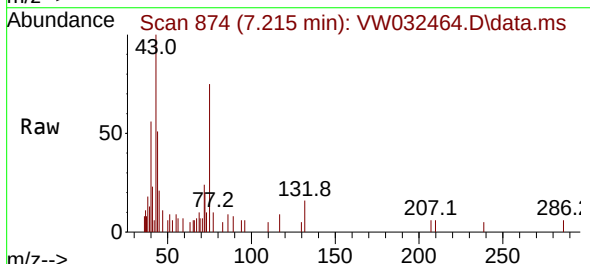
Instrument :
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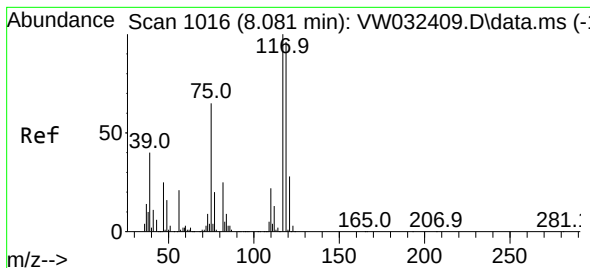
Tgt Ion: 75 Resp: 19427
 Ion Ratio Lower Upper
 75 100
 110 10.5 17.2 51.5#
 77 0.9 24.5 36.7#



#37
 Ethyl Acetate
 Concen: 1.175 ug/l
 RT: 7.215 min Scan# 874
 Delta R.T. -0.055 min
 Lab File: VW032464.D
 Acq: 17 Nov 2025 17:30

Tgt Ion: 43 Resp: 4058
 Ion Ratio Lower Upper
 43 100
 61 1.5 11.0 16.6#
 70 1.6 8.3 12.5#





#38

Carbon Tetrachloride

Concen: 5.739 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.122 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

LAW-25-0179

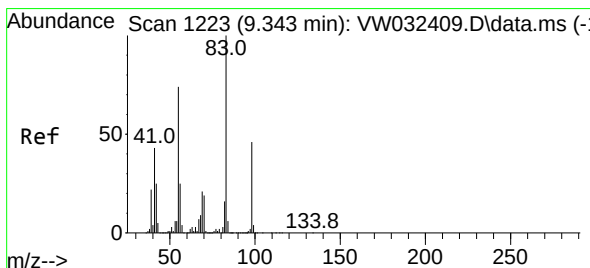
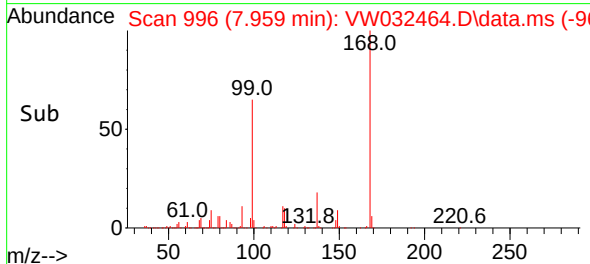
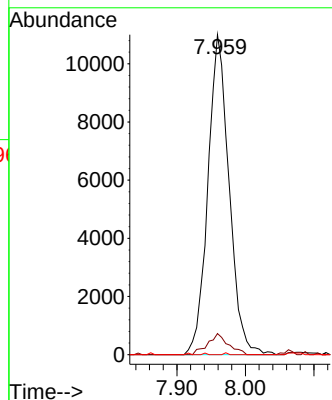
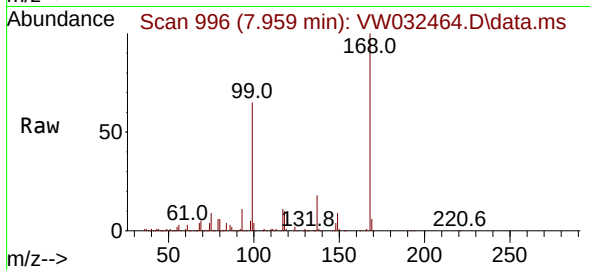
Tgt Ion:117 Resp: 23690

Ion Ratio Lower Upper

117 100

119 6.6 77.0 115.4#

121 0.0 22.0 33.0#



#39

Methylcyclohexane

Concen: 9.953 ug/l

RT: 9.343 min Scan# 1223

Delta R.T. 0.000 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

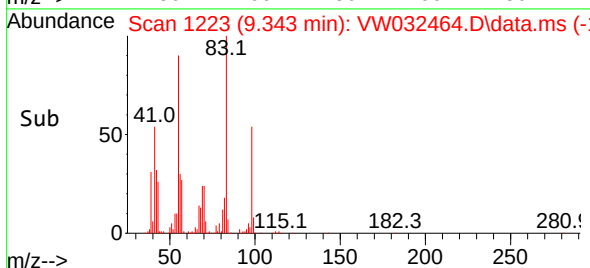
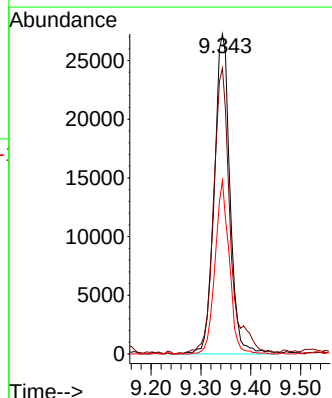
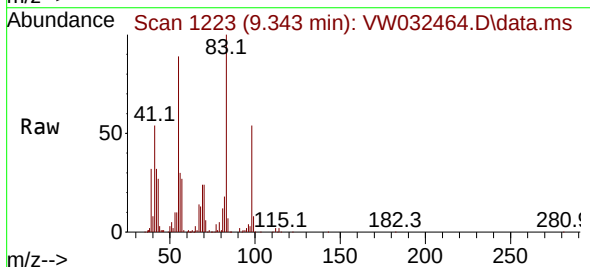
Tgt Ion: 83 Resp: 59901

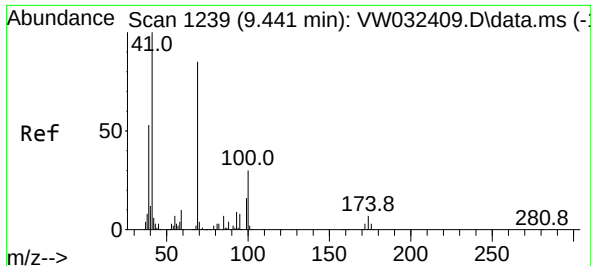
Ion Ratio Lower Upper

83 100

55 89.0 59.2 88.8#

98 54.0 36.6 54.8





#48

Methyl methacrylate

Concen: 2.899 ug/l

RT: 9.386 min Scan# 11

Delta R.T. -0.055 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

LAW-25-0179

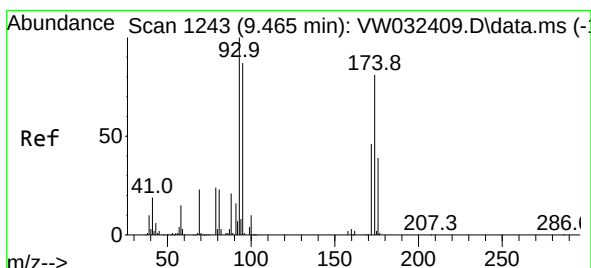
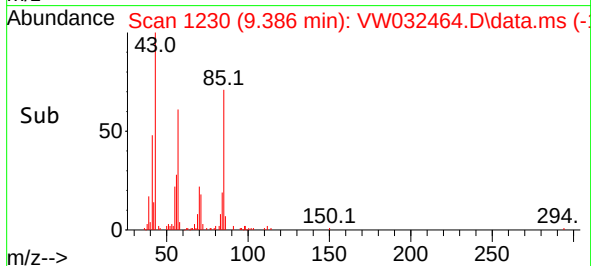
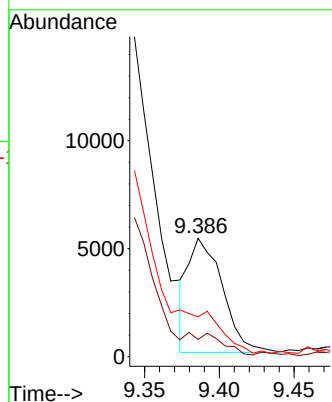
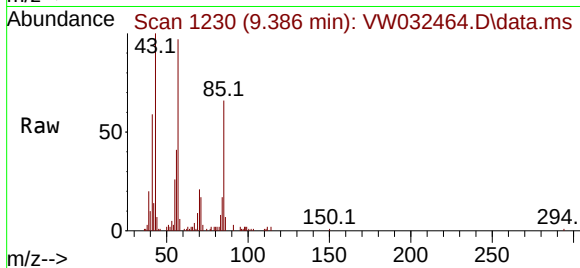
Tgt Ion: 41 Resp: 8426

Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.6#

39 0.0 38.6 57.8#



#49

1,4-Dioxane

Concen: 1.902 ug/l

RT: 9.447 min Scan# 1240

Delta R.T. -0.018 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

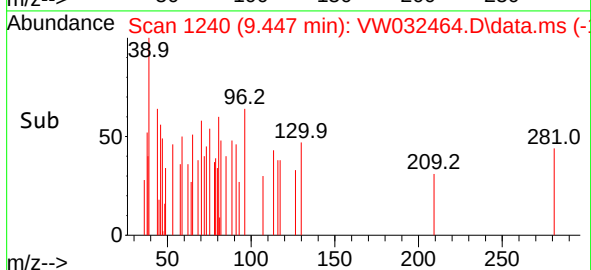
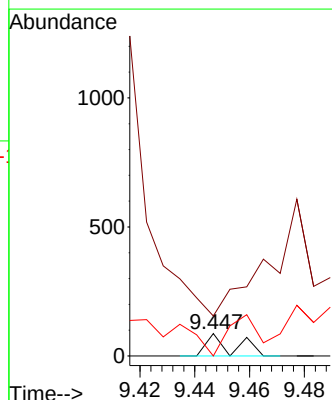
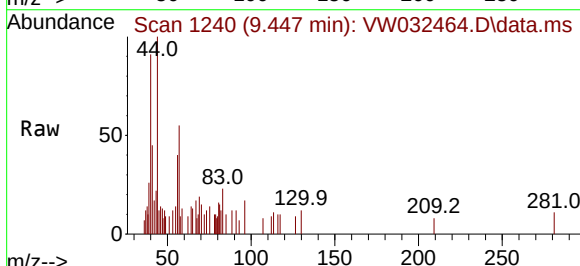
Tgt Ion: 88 Resp: 58

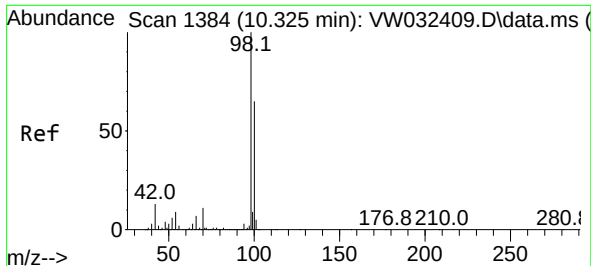
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 206.9 63.0 94.4#

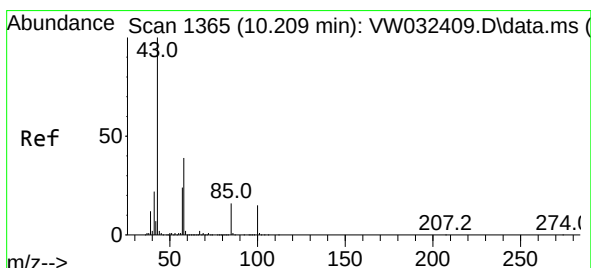
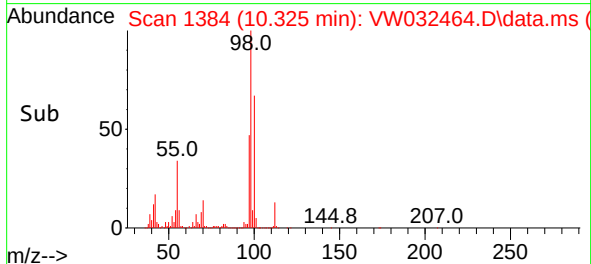
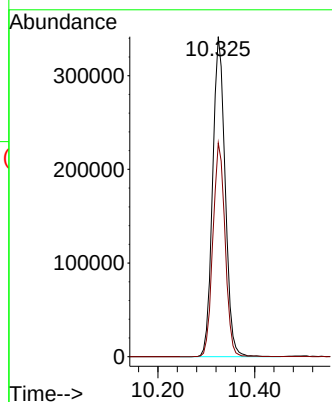
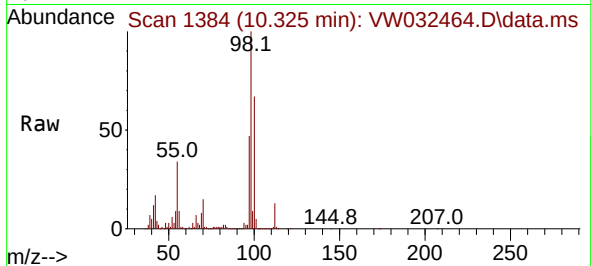




#50
Toluene-d8
Concen: 50.722 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

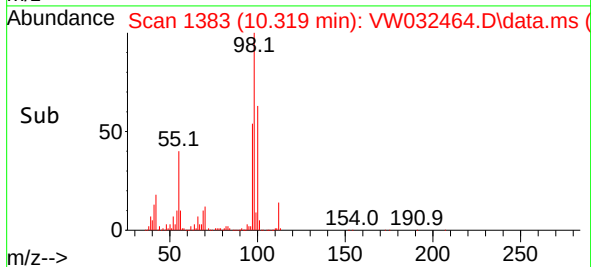
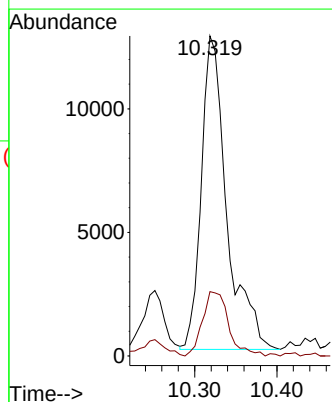
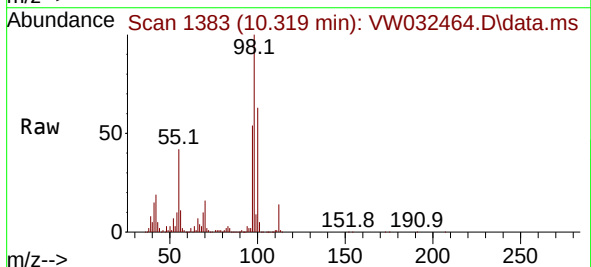
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

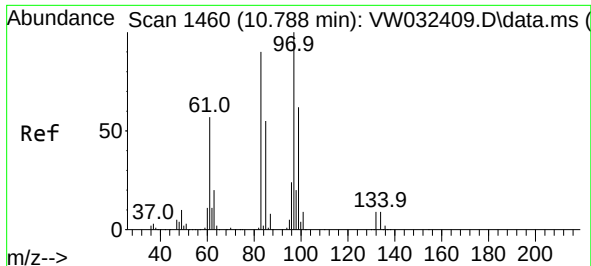
Tgt Ion: 98 Resp: 613536
Ion Ratio Lower Upper
98 100
100 65.0 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 8.118 ug/l
RT: 10.319 min Scan# 1383
Delta R.T. 0.110 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 43 Resp: 27451
Ion Ratio Lower Upper
43 100
58 21.0 31.4 47.2#





#55

1,1,2-Trichloroethane

Concen: 50.378 ug/l

RT: 10.764 min Scan# 14

Delta R.T. -0.024 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

LAW-25-0179

Tgt Ion: 97 Resp: 150446

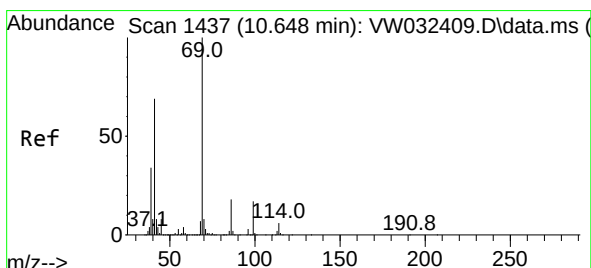
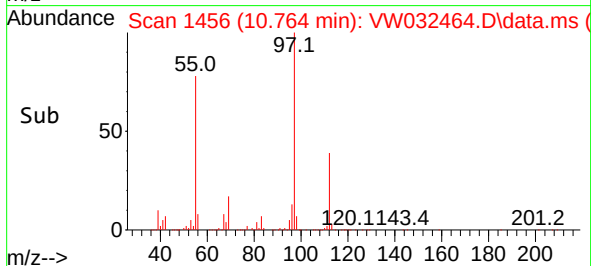
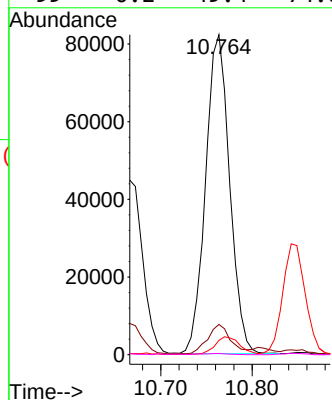
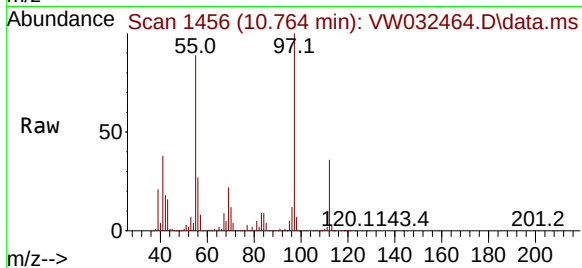
Ion Ratio Lower Upper

97 100

83 9.1 72.2 108.4#

85 4.4 43.8 65.8#

99 0.2 49.4 74.0#



#56

Ethyl methacrylate

Concen: 5.475 ug/l

RT: 10.666 min Scan# 1440

Delta R.T. 0.018 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

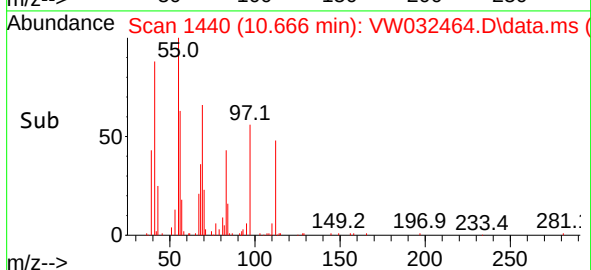
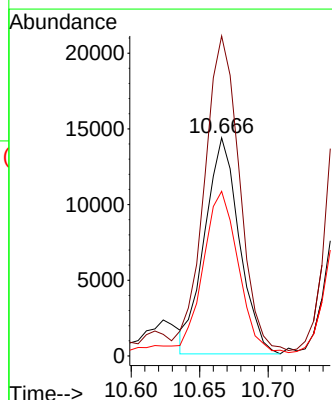
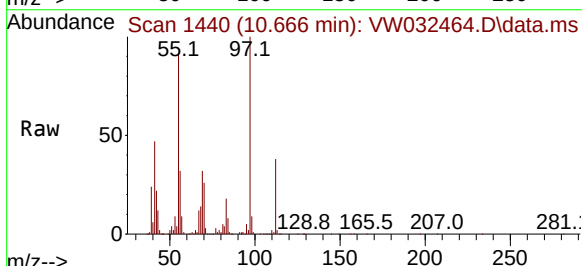
Tgt Ion: 69 Resp: 25086

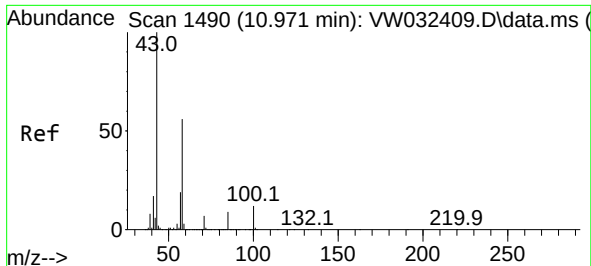
Ion Ratio Lower Upper

69 100

41 146.9 54.4 81.6#

39 78.3 25.4 38.0#

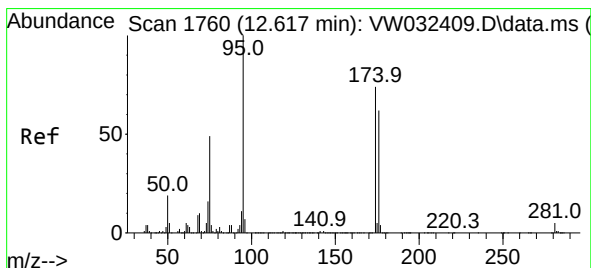
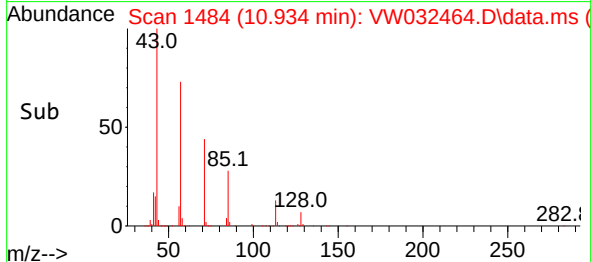
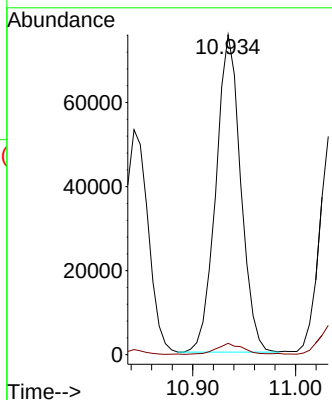
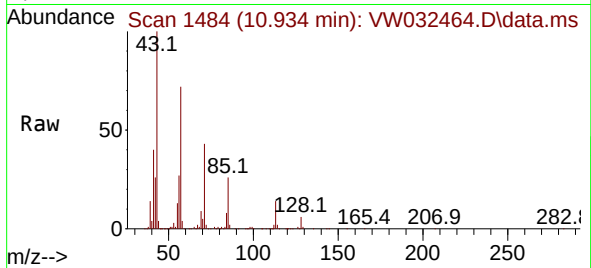




#59
2-Hexanone
Concen: 51.132 ug/l
RT: 10.934 min Scan# 1490
Delta R.T. -0.036 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

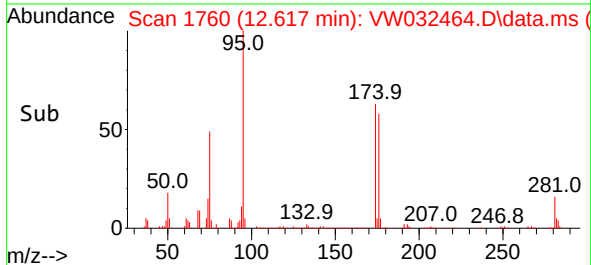
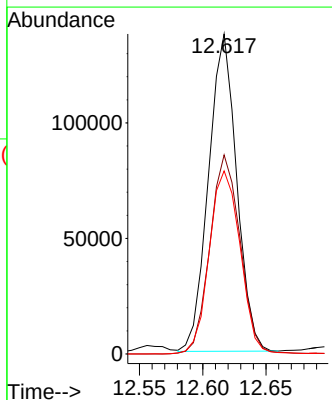
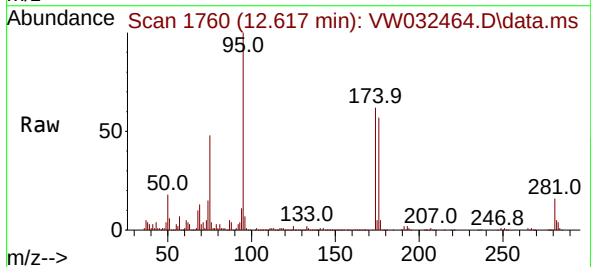
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

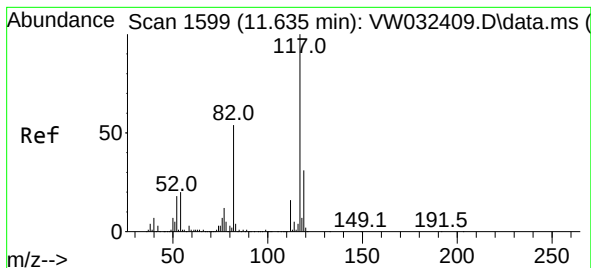
Tgt Ion: 43 Resp: 126503
Ion Ratio Lower Upper
43 100
58 3.8 27.4 82.2#



#62
4-Bromofluorobenzene
Concen: 46.522 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 95 Resp: 212576
Ion Ratio Lower Upper
95 100
174 67.5 0.0 135.4
176 63.7 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 1599

Delta R.T. -0.006 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

LAW-25-0179

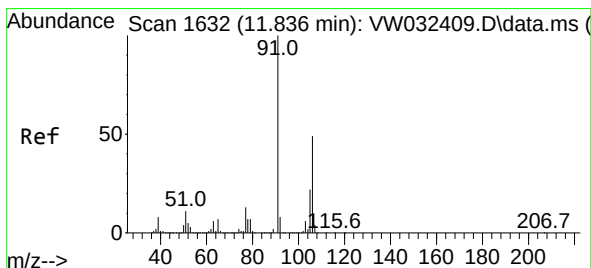
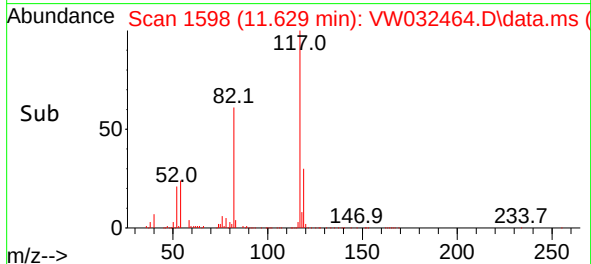
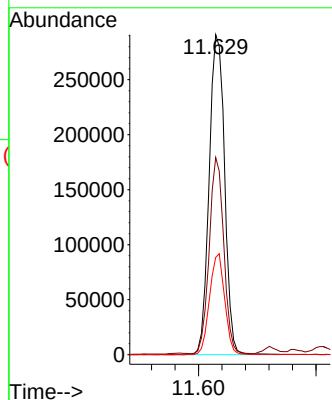
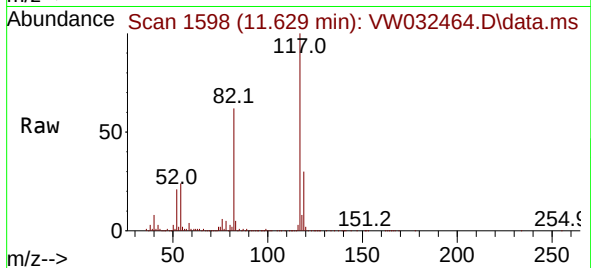
Tgt Ion:117 Resp: 531377

Ion Ratio Lower Upper

117 100

82 61.1 43.0 64.4

119 30.4 25.0 37.6



#68

m/p-Xylenes

Concen: 3.458 ug/l

RT: 11.837 min Scan# 1632

Delta R.T. 0.000 min

Lab File: VW032464.D

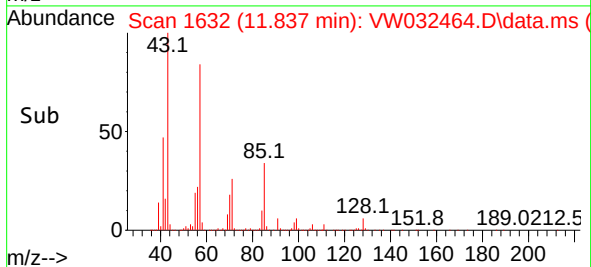
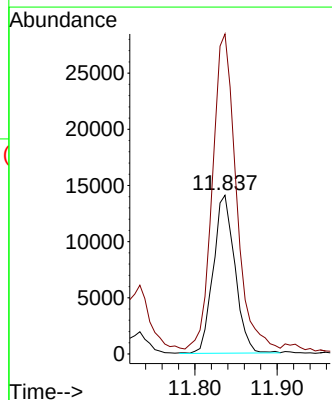
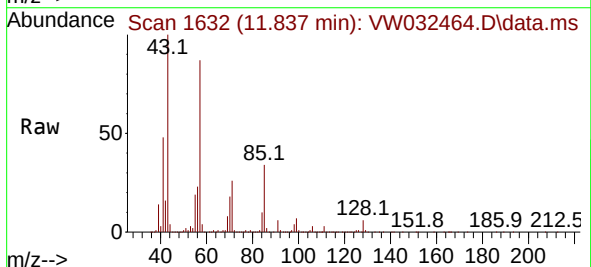
Acq: 17 Nov 2025 17:30

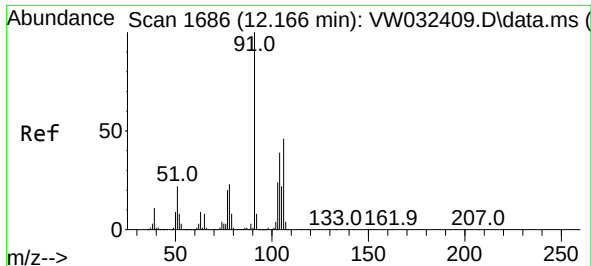
Tgt Ion:106 Resp: 25732

Ion Ratio Lower Upper

106 100

91 223.8 165.5 248.3

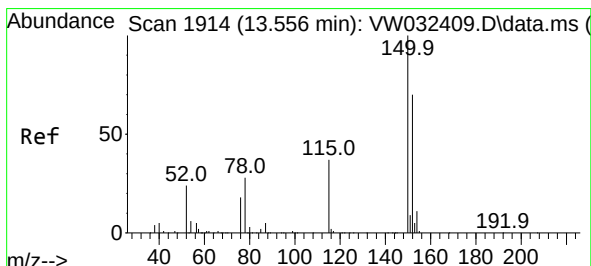
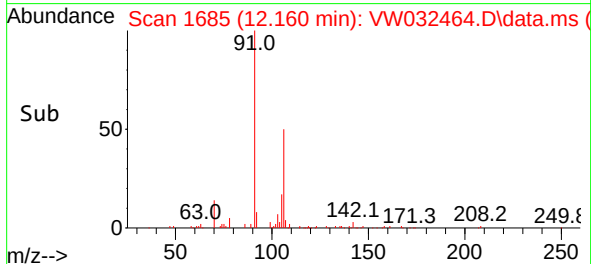
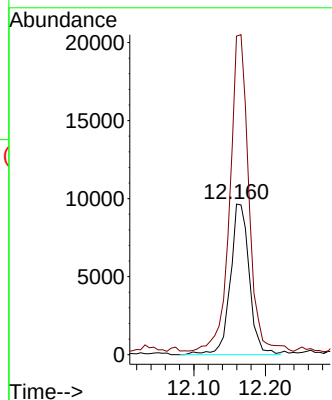
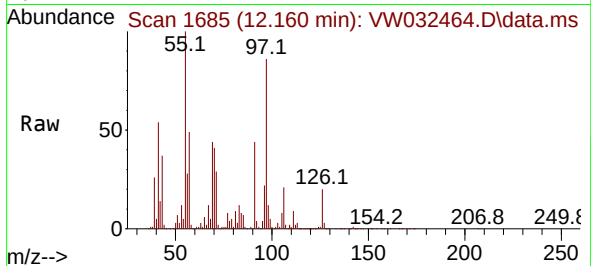




#69
o-Xylene
Concen: 2.485 ug/l
RT: 12.160 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

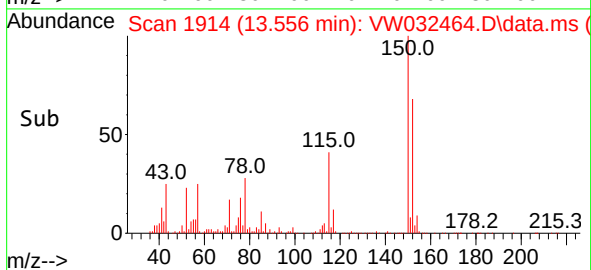
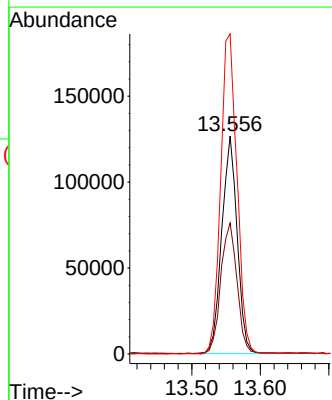
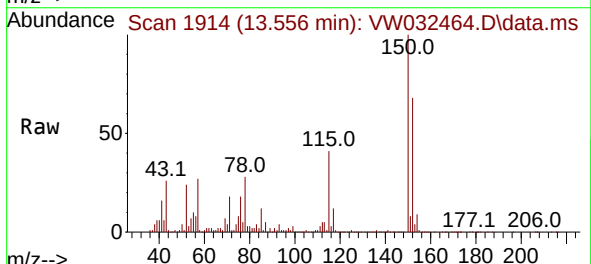
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

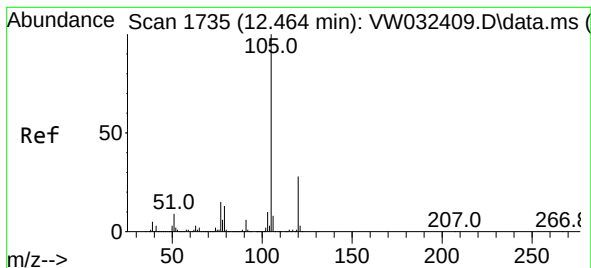
Tgt Ion:106 Resp: 17703
Ion Ratio Lower Upper
106 100
91 210.1 109.3 327.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion:152 Resp: 197643
Ion Ratio Lower Upper
152 100
115 63.4 32.8 98.3
150 155.2 0.0 356.6





#73

Isopropylbenzene

Concen: 2.155 ug/l

RT: 12.471 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

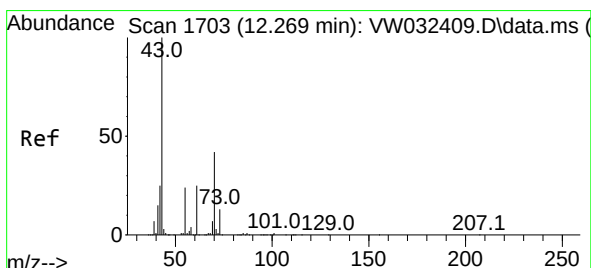
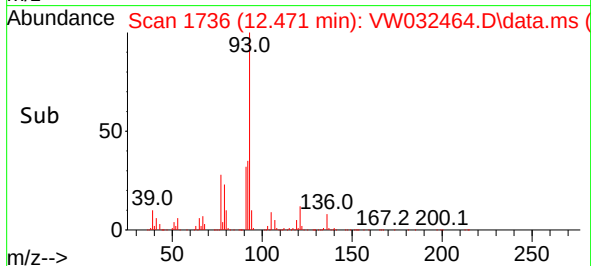
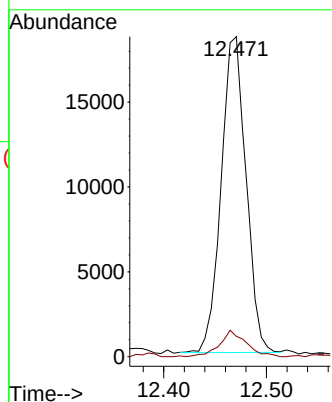
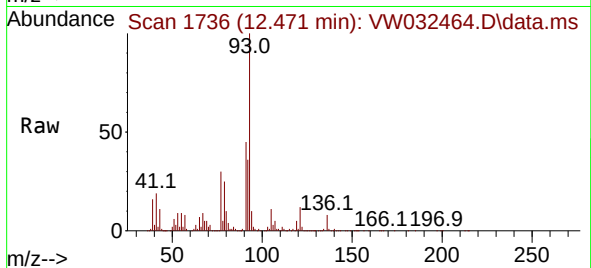
LAW-25-0179

Tgt Ion:105 Resp: 31278

Ion Ratio Lower Upper

105 100

120 8.9 13.2 39.5#



#74

N-ethyl acetate

Concen: 13.005 ug/l

RT: 12.245 min Scan# 1699

Delta R.T. -0.024 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Tgt Ion: 43 Resp: 65597

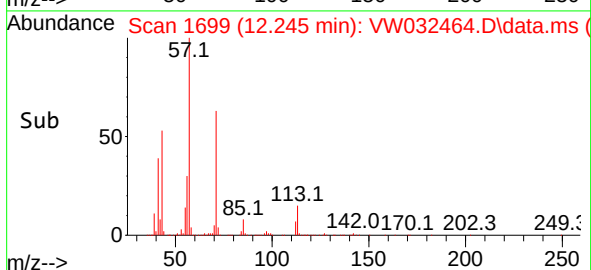
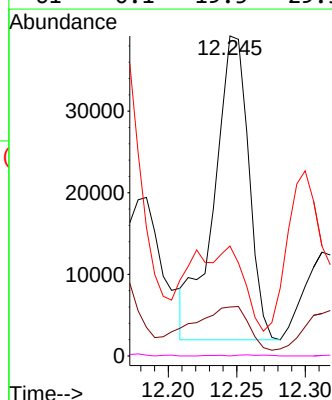
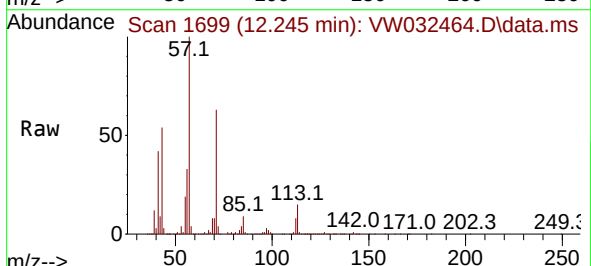
Ion Ratio Lower Upper

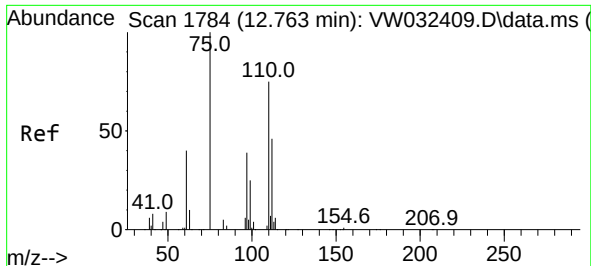
43 100

70 0.0 33.5 50.3#

55 0.0 19.3 28.9#

61 0.1 19.5 29.3#

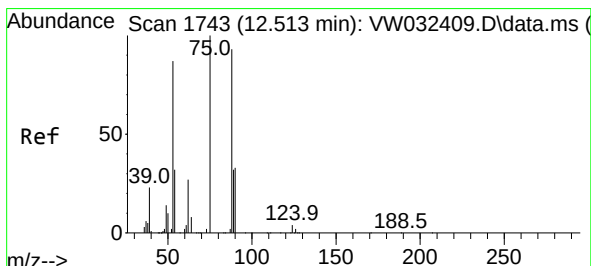
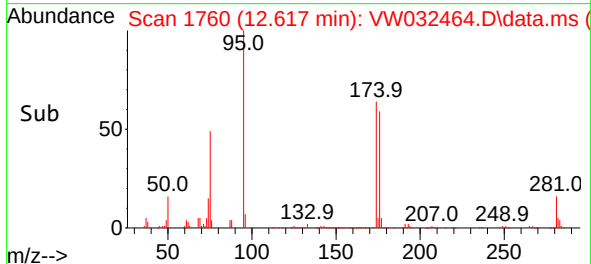
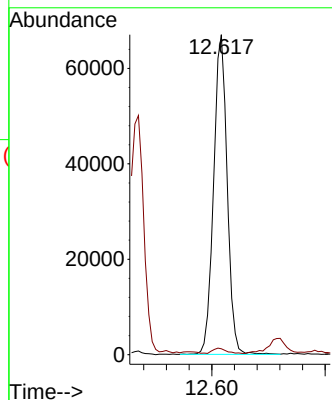
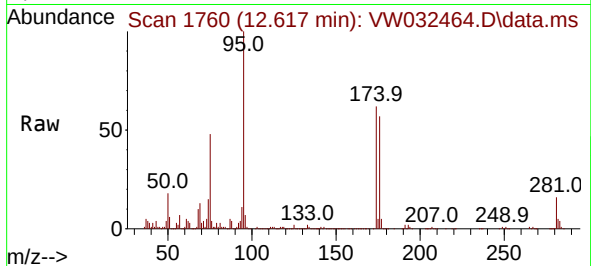




#76
1,2,3-Trichloropropane
Concen: 41.059 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

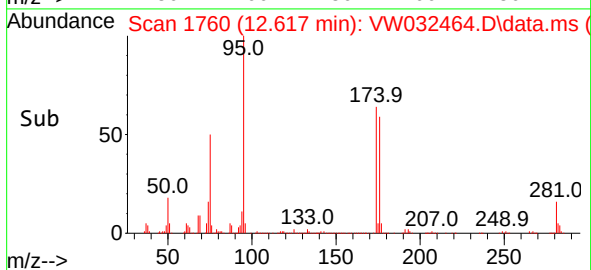
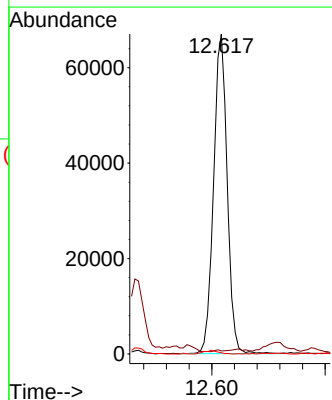
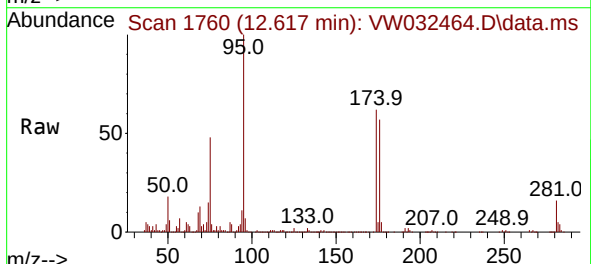
Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

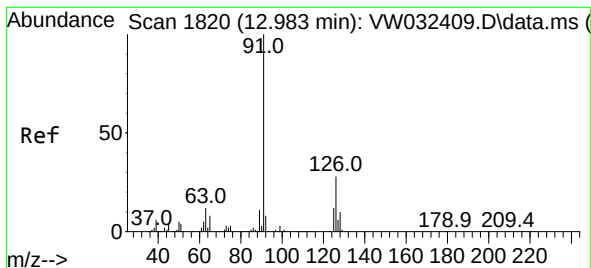
Tgt Ion: 75 Resp: 111271
Ion Ratio Lower Upper
75 100
77 0.0 151.6 454.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.044 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion: 75 Resp: 111271
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 1.2 35.6 53.4#





#82

4-Chlorotoluene

Concen: 9.488 ug/l

RT: 13.019 min Scan# 1826

Delta R.T. 0.037 min

Lab File: VW032464.D

Acq: 17 Nov 2025 17:30

Instrument :

MSVOA_W

ClientSampleId :

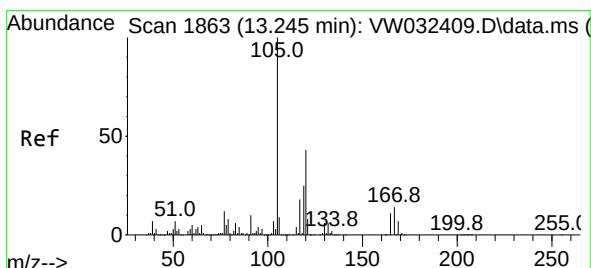
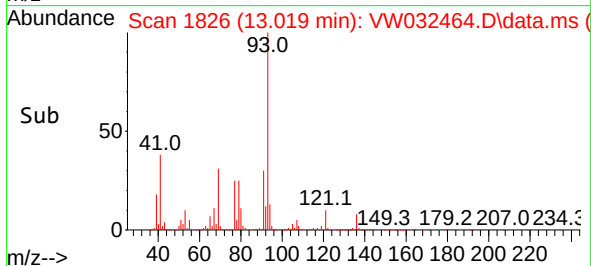
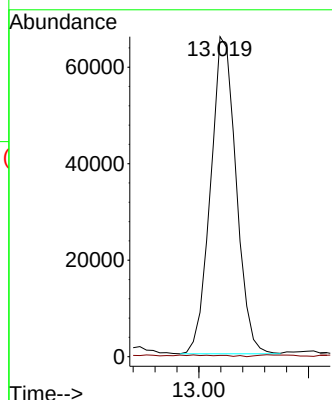
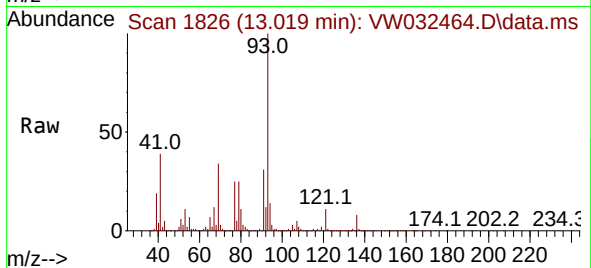
LAW-25-0179

Tgt Ion: 91 Resp: 106493

Ion Ratio Lower Upper

91 100

126 0.0 15.5 46.5#



#84

1,2,4-Trimethylbenzene

Concen: 1.843 ug/l

RT: 13.245 min Scan# 1863

Delta R.T. 0.000 min

Lab File: VW032464.D

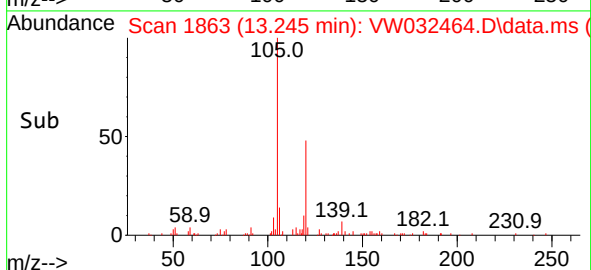
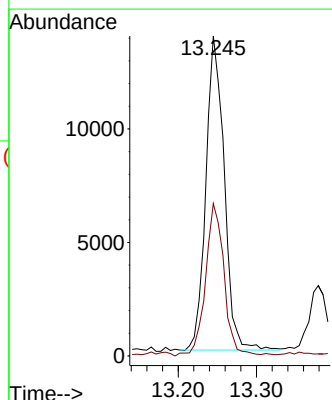
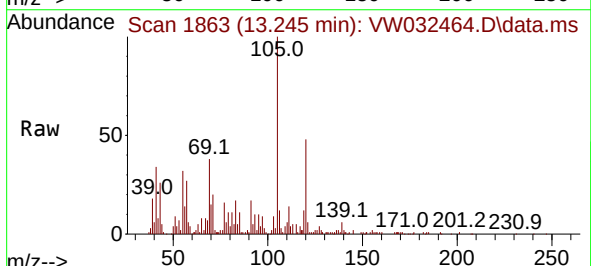
Acq: 17 Nov 2025 17:30

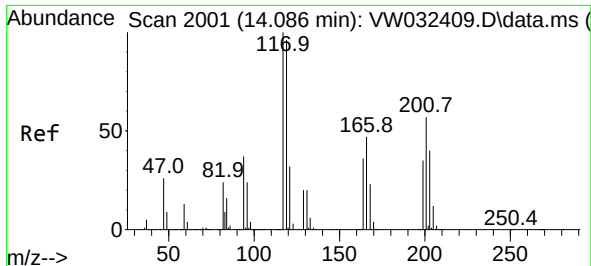
Tgt Ion:105 Resp: 22453

Ion Ratio Lower Upper

105 100

120 49.1 22.1 66.5

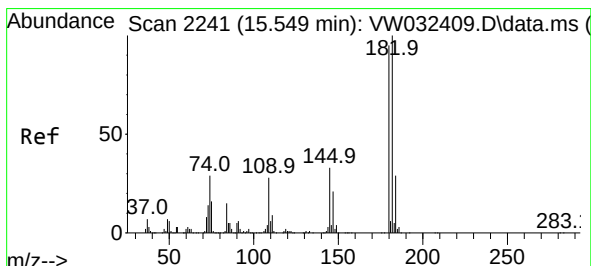
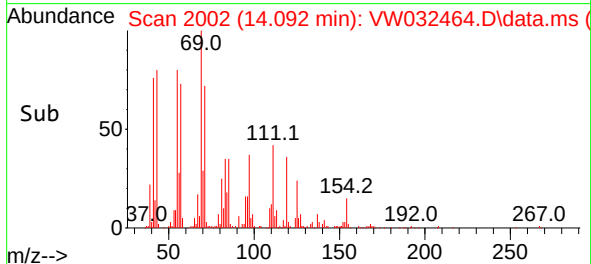
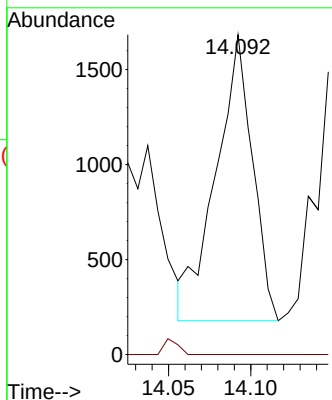
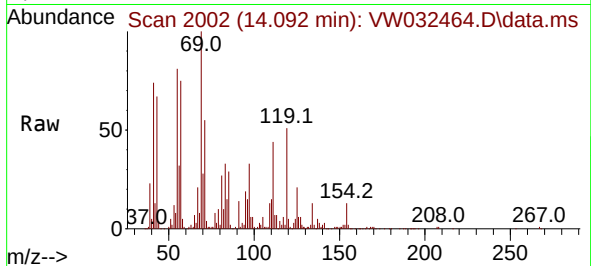




#90
Hexachloroethane
Concen: 1.010 ug/l
RT: 14.092 min Scan# 2001
Delta R.T. 0.006 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Instrument :
MSVOA_W
ClientSampleId :
LAW-25-0179

Tgt Ion:117 Resp: 2332
Ion Ratio Lower Upper
117 100
201 0.0 32.0 96.0#



#96
1,2,3-Trichlorobenzene
Concen: 3.536 ug/l
RT: 15.568 min Scan# 2244
Delta R.T. 0.018 min
Lab File: VW032464.D
Acq: 17 Nov 2025 17:30

Tgt Ion:180 Resp: 12221
Ion Ratio Lower Upper
180 100
182 9.6 50.3 151.0#
145 0.0 17.8 53.3#

