

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092525\
 Data File : VY023380.D
 Acq On : 25 Sep 2025 17:40
 Operator : SY/MD
 Sample : Q3212-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 26 04:27:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090825S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 10 01:44:33 2025
 Response via : Initial Calibration

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

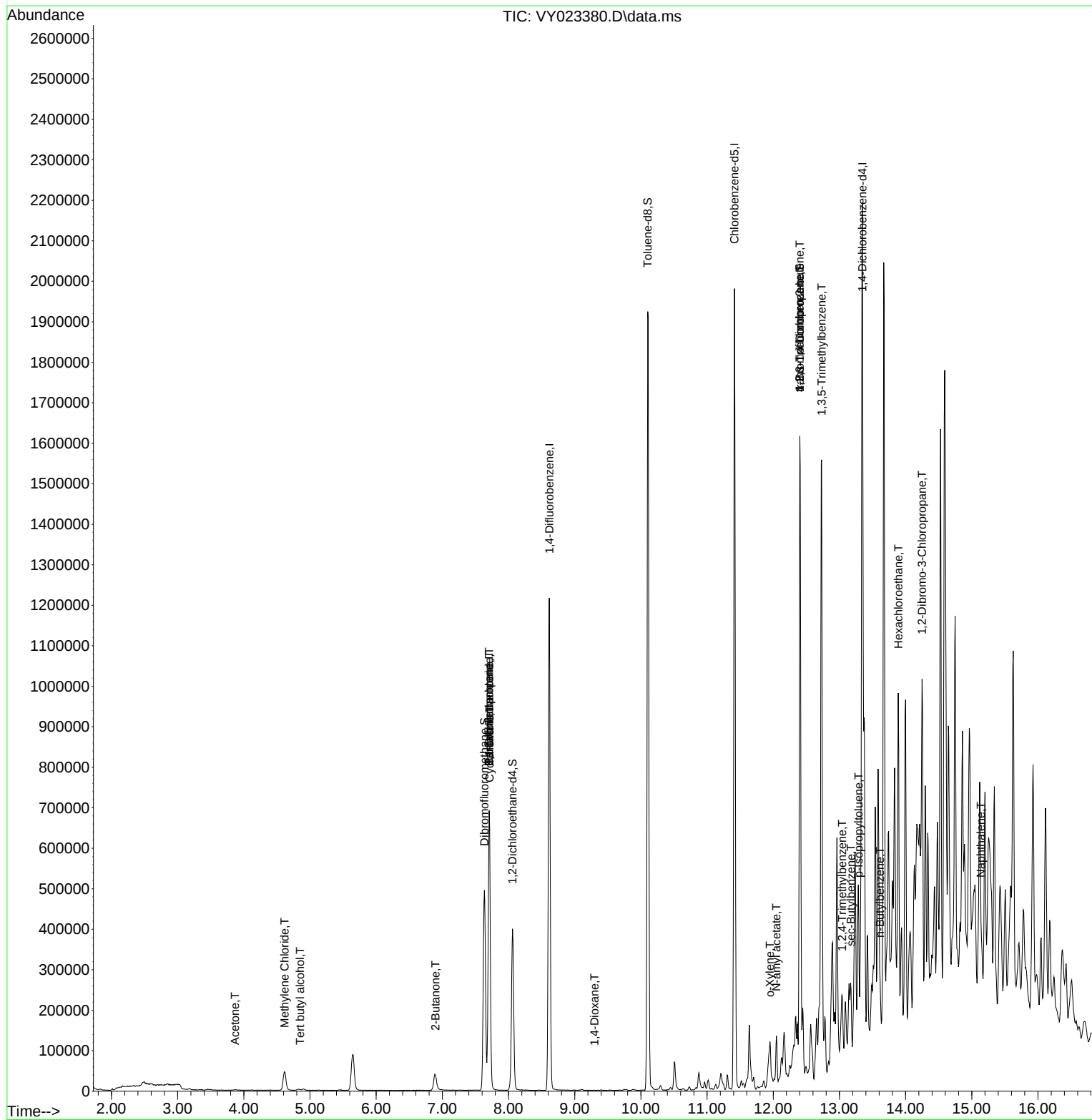
Internal Standards						
1) Pentafluorobenzene	7.707	168	556371	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1071407	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1073599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	510257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	305117	62.410	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.820%	
35) Dibromofluoromethane	7.634	113	356089	54.372	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.740%	
50) Toluene-d8	10.103	98	1291037	52.205	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.420%	
62) 4-Bromofluorobenzene	12.401	95	458474	58.911	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 117.820%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.848	59	2007	7.105	ug/l #	71
16) Acetone	3.866	43	2465	2.214	ug/l #	76
20) Methylene Chloride	4.616	84	37702	6.328	ug/l	89
25) 2-Butanone	6.896	43	2531	1.847	ug/l #	70
31) Cyclohexane	7.713	56	9353	1.093	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	37809	4.053	ug/l #	49
38) Carbon Tetrachloride	7.707	117	51669	4.814	ug/l #	17
49) 1,4-Dioxane	9.298	88	50	1.235	ug/l #	24
69) o-Xylene	11.950	106	23159	1.626	ug/l	97
74) N-amyl acetate	12.048	43	21929	3.375	ug/l #	69
76) 1,2,3-Trichloropropane	12.401	75	227820	44.089	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.731	105	166782	5.966	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.401	75	227820	120.234	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.042	105	64476	2.331	ug/l	99
85) sec-Butylbenzene	13.176	105	72388	1.965	ug/l	85
86) p-Isopropyltoluene	13.291	119	62744	2.016	ug/l	98
89) n-Butylbenzene	13.615	91	53509	1.939	ug/l #	71
90) Hexachloroethane	13.889	117	31048	4.602	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.249	75	2685	2.966	ug/l #	28
95) Naphthalene	15.139	128	23966	1.687	ug/l #	69

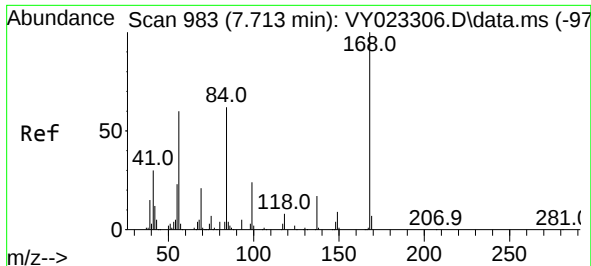
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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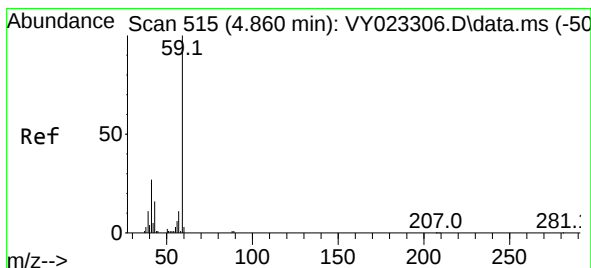
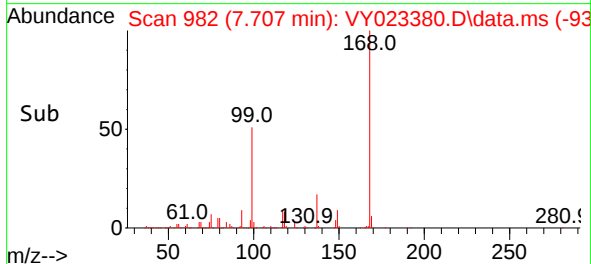
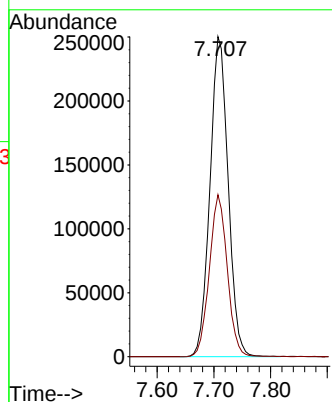
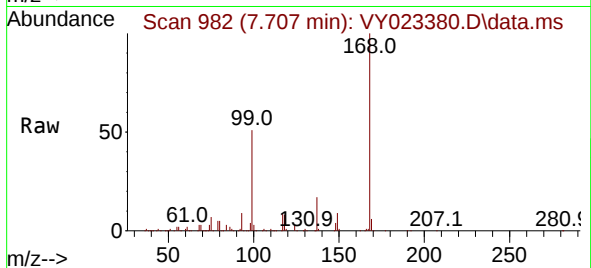




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

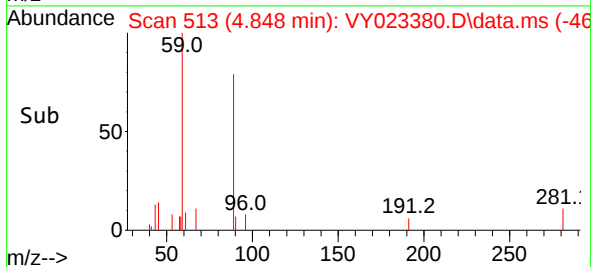
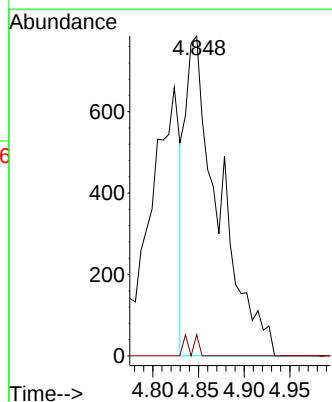
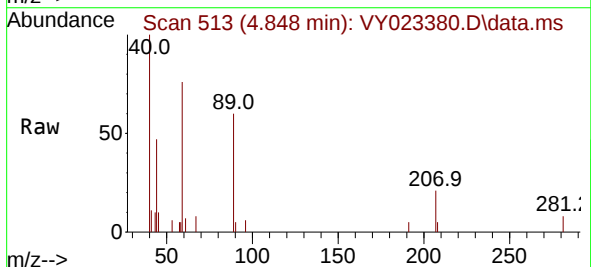
Instrument :
MSVOA_Y
ClientSampleId :

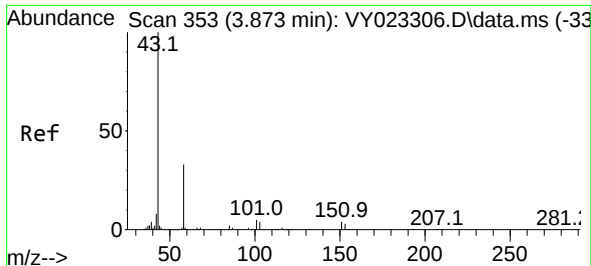
Tgt Ion:168 Resp: 556371
Ion Ratio Lower Upper
168 100
99 50.6 42.8 64.2



#11
Tert butyl alcohol
Concen: 7.105 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.012 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Tgt Ion: 59 Resp: 2007
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

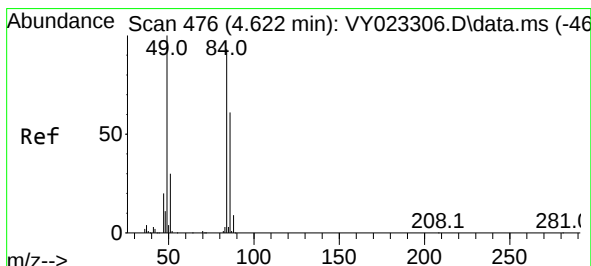
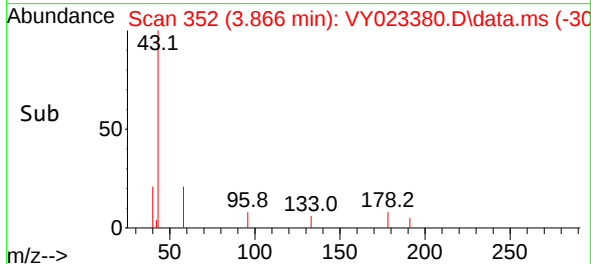
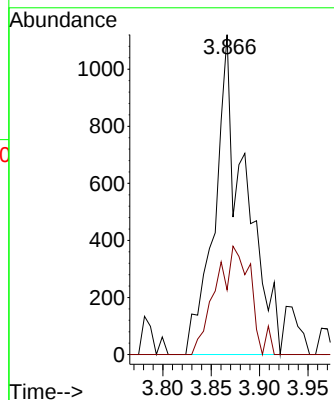
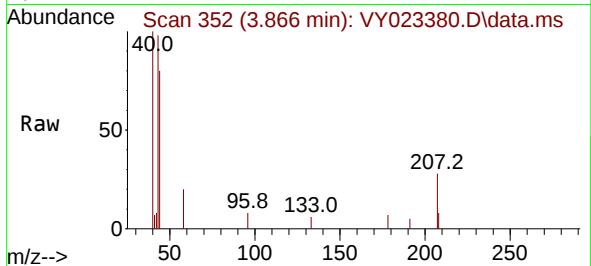




#16
Acetone
Concen: 2.214 ug/l
RT: 3.866 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

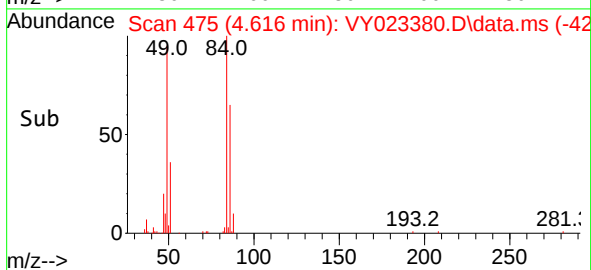
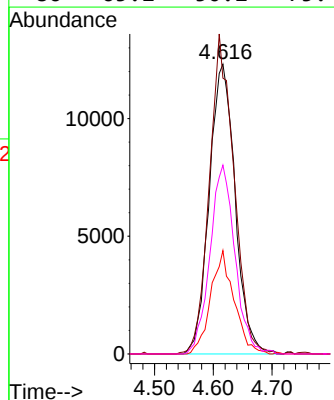
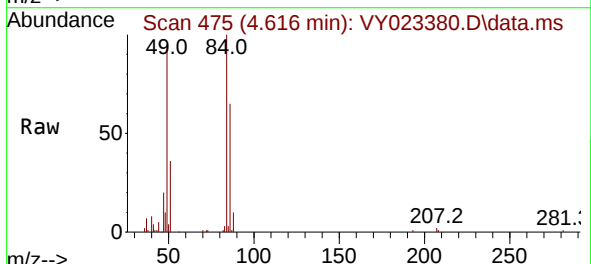
Instrument :
MSVOA_Y
ClientSampleId :

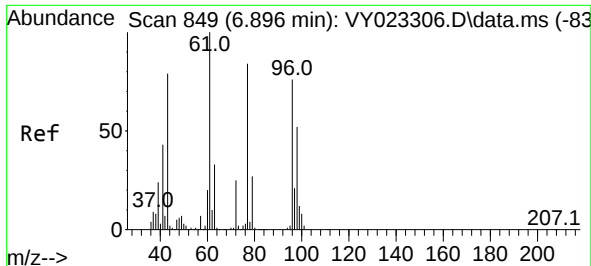
Tgt Ion: 43 Resp: 2465
Ion Ratio Lower Upper
43 100
58 20.2 27.1 40.7#



#20
Methylene Chloride
Concen: 6.328 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Tgt Ion: 84 Resp: 37702
Ion Ratio Lower Upper
84 100
49 95.2 93.0 139.6
51 35.7 29.0 43.4
86 65.2 50.2 75.4

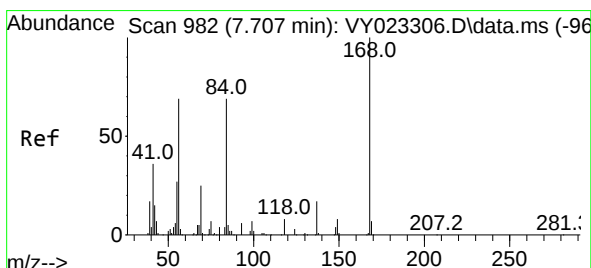
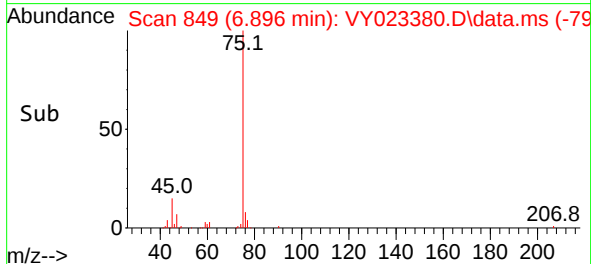
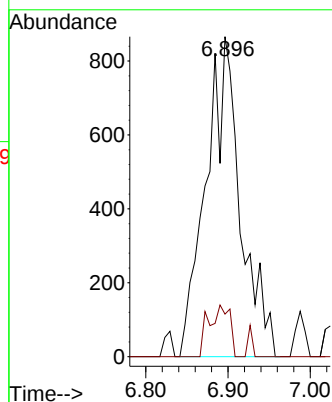
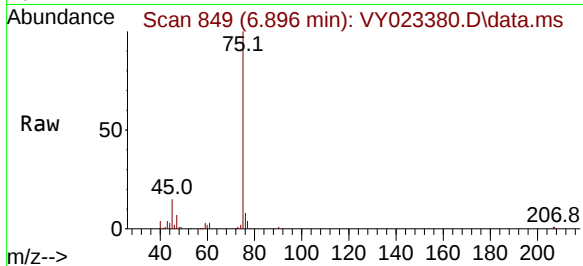




#25
2-Butanone
Concen: 1.847 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

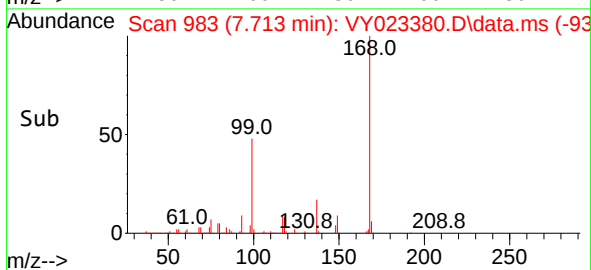
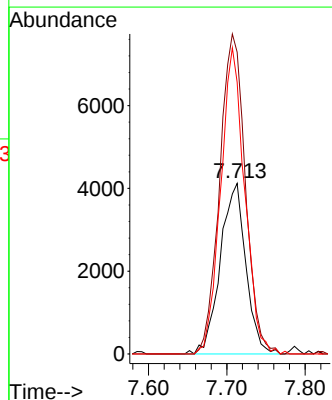
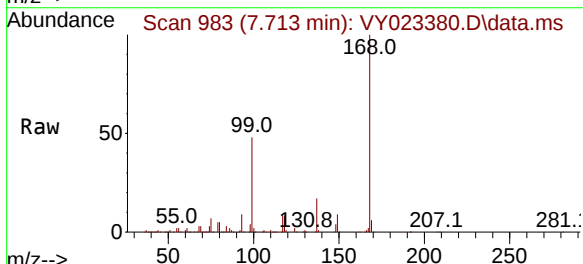
Instrument :
MSVOA_Y
ClientSampleId :

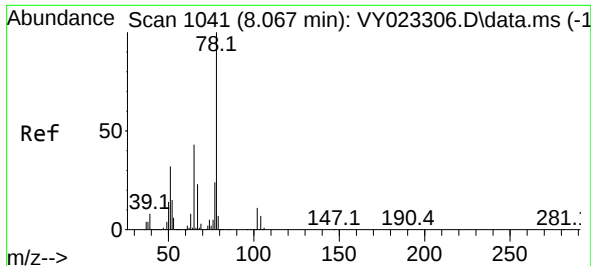
Tgt Ion: 43 Resp: 2531
Ion Ratio Lower Upper
43 100
72 13.3 23.5 35.3#



#31
Cyclohexane
Concen: 1.093 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.018 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Tgt Ion: 56 Resp: 9353
Ion Ratio Lower Upper
56 100
69 176.9 28.2 42.2#
84 159.2 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 62.410 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023380.D

Acq: 25 Sep 2025 17:40

Instrument :

MSVOA_Y

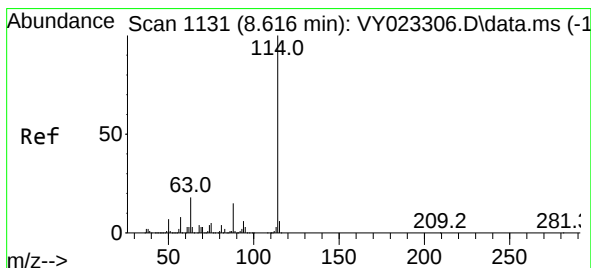
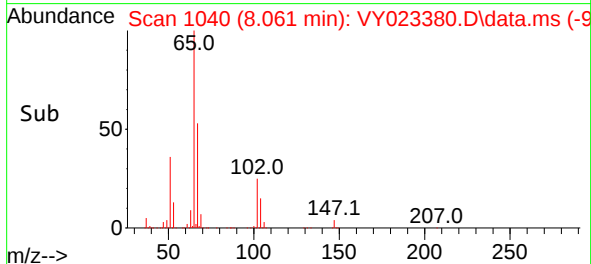
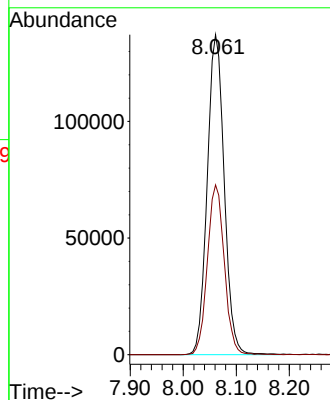
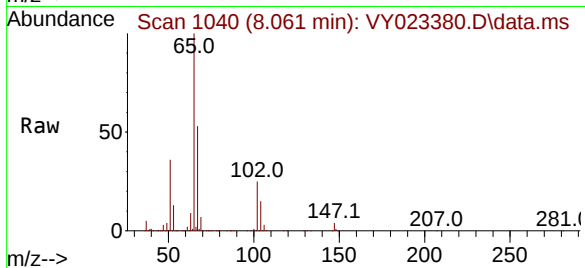
ClientSampleId :

Tgt Ion: 65 Resp: 305117

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023380.D

Acq: 25 Sep 2025 17:40

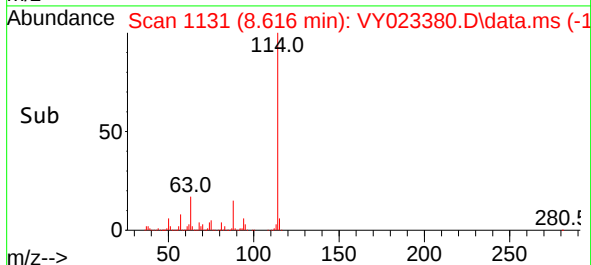
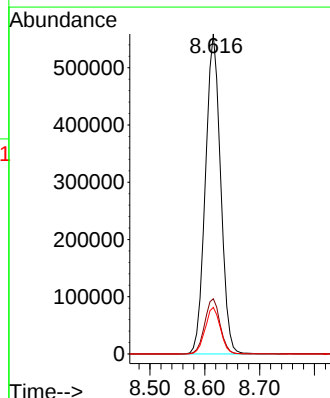
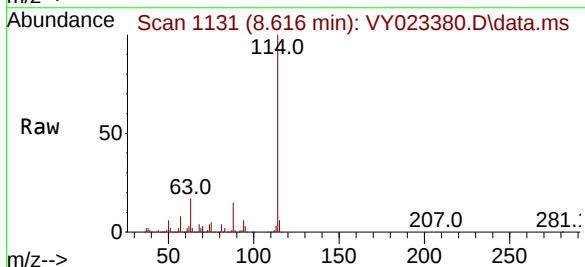
Tgt Ion: 114 Resp: 1071407

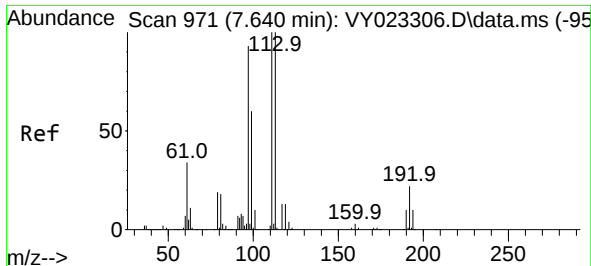
Ion Ratio Lower Upper

114 100

63 17.3 0.0 38.4

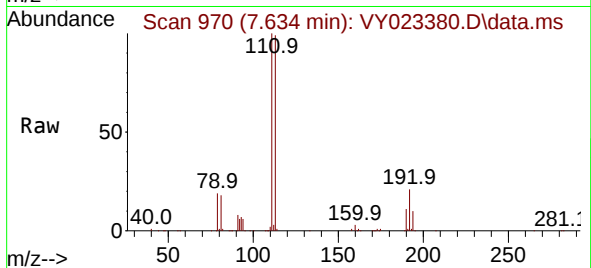
88 14.6 0.0 30.0



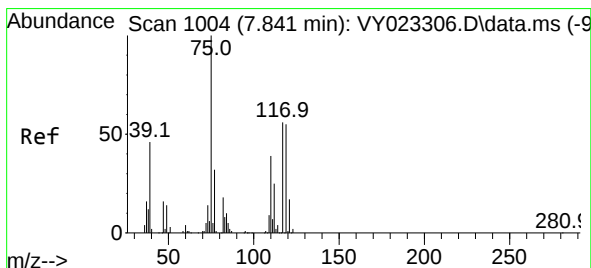
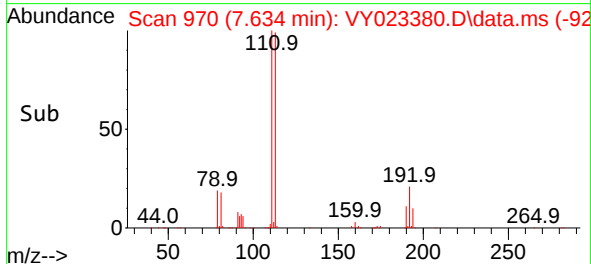
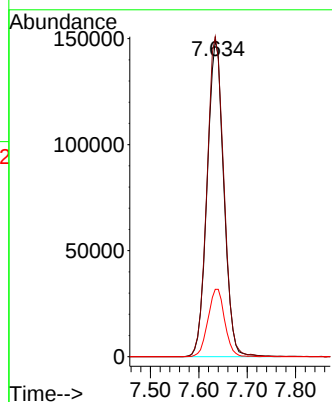


#35
Dibromofluoromethane
Concen: 54.372 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Instrument :
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ClientSampleId :

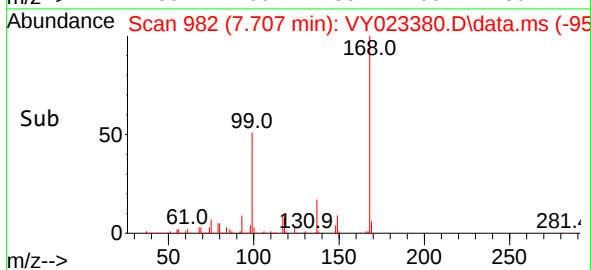
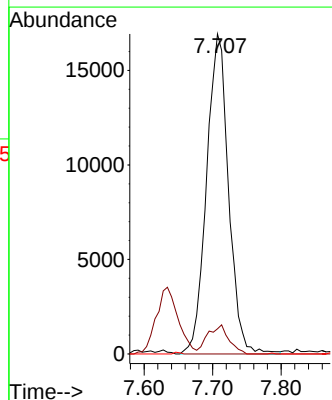
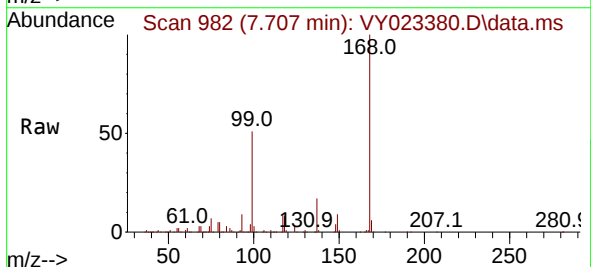


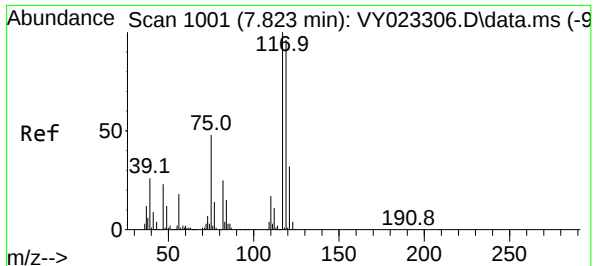
Tgt Ion:113 Resp: 356089
Ion Ratio Lower Upper
113 100
111 102.6 81.1 121.7
192 21.5 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.053 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.122 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

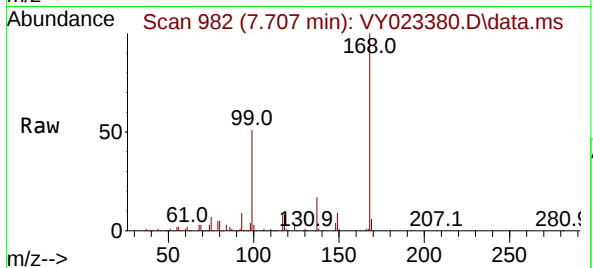
Tgt Ion: 75 Resp: 37809
Ion Ratio Lower Upper
75 100
110 8.7 18.1 54.4#
77 0.0 24.6 37.0#



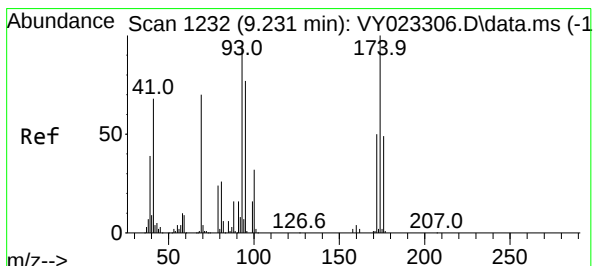
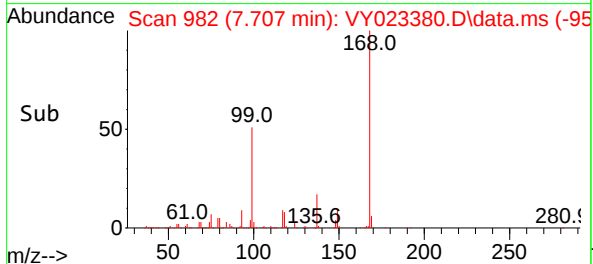
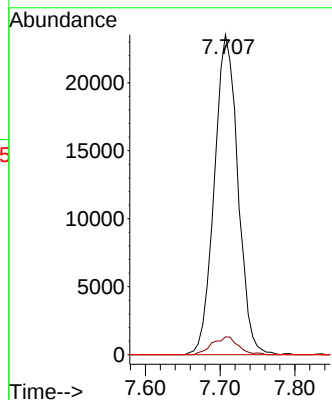


#38
Carbon Tetrachloride
Concen: 4.814 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Instrument :
MSVOA_Y
ClientSampleId :

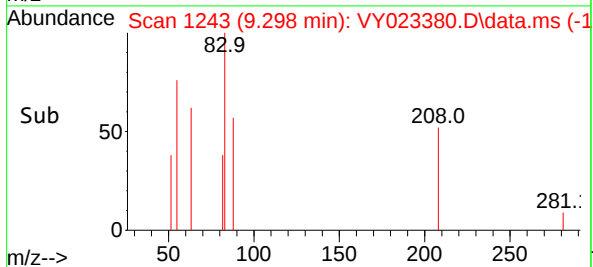
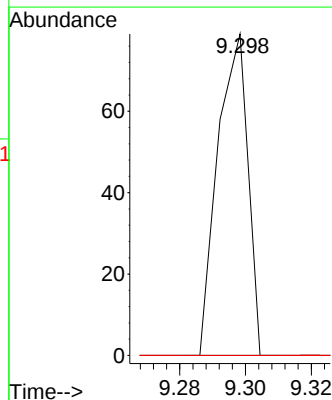
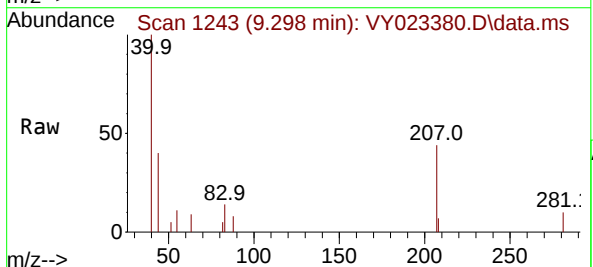


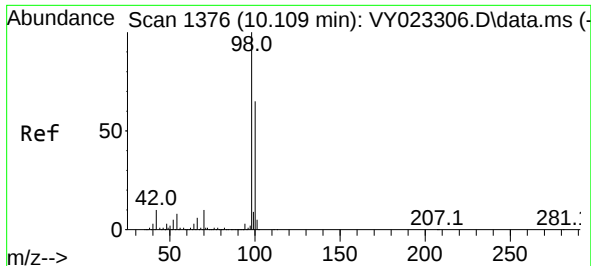
Tgt Ion:117 Resp: 51669
Ion Ratio Lower Upper
117 100
119 5.5 75.6 113.4#
121 0.0 25.8 38.8#



#49
1,4-Dioxane
Concen: 1.235 ug/l
RT: 9.298 min Scan# 1243
Delta R.T. 0.073 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Tgt Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 0.0 24.3 36.5#
58 0.0 55.4 83.0#

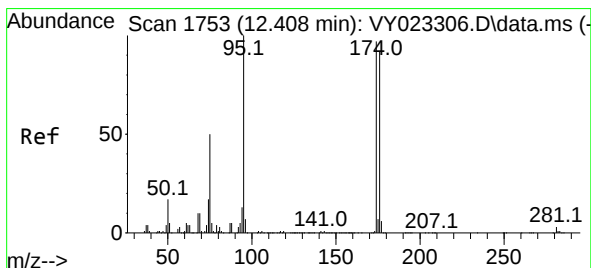
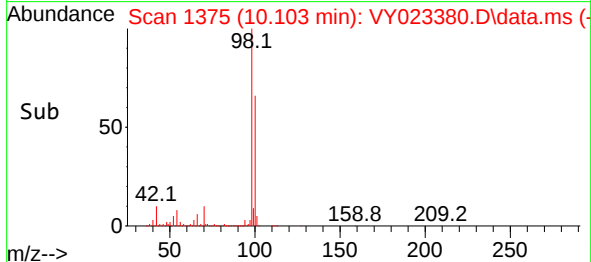
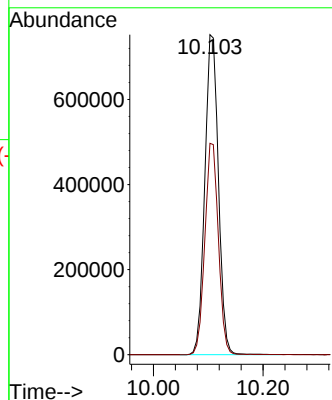
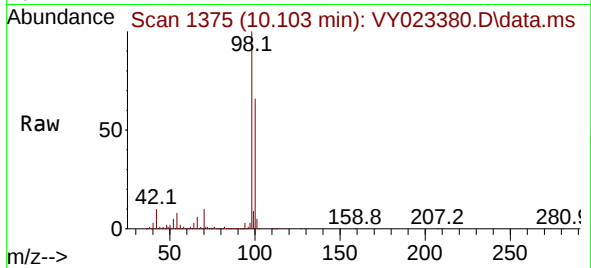




#50
Toluene-d8
Concen: 52.205 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

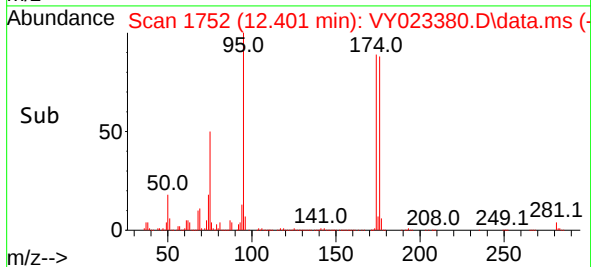
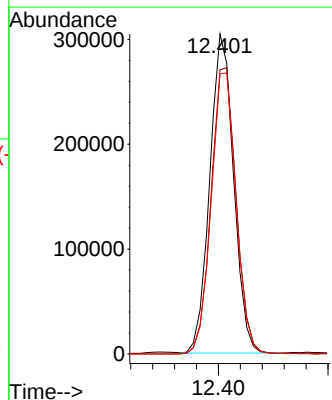
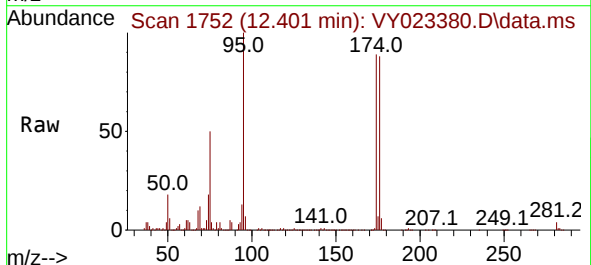
Instrument :
MSVOA_Y
ClientSampleId :

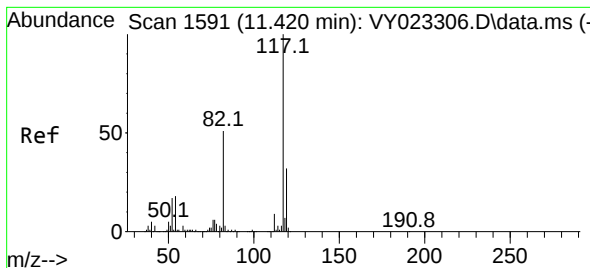
Tgt Ion: 98 Resp: 1291037
Ion Ratio Lower Upper
98 100
100 65.7 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 58.911 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

Tgt Ion: 95 Resp: 458474
Ion Ratio Lower Upper
95 100
174 94.5 0.0 171.6
176 92.2 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023380.D

Acq: 25 Sep 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

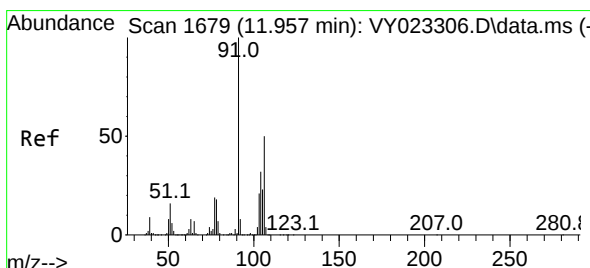
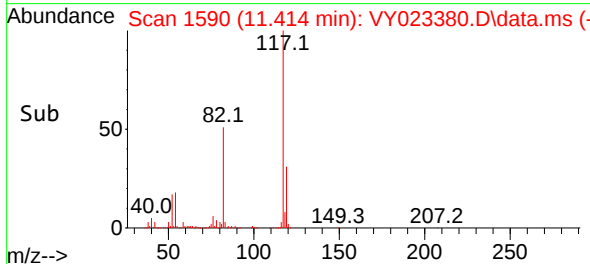
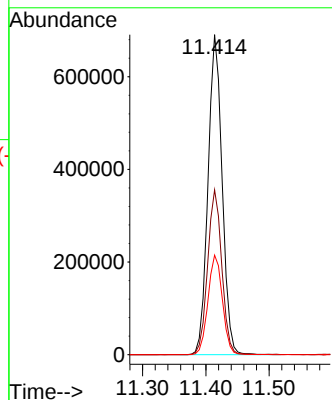
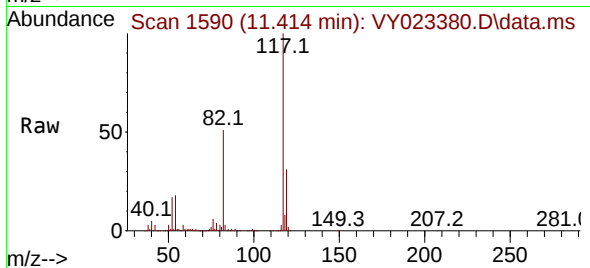
Tgt Ion:117 Resp: 1073599

Ion Ratio Lower Upper

117 100

82 51.4 43.4 65.0

119 31.1 25.6 38.4



#69

o-Xylene

Concen: 1.626 ug/l

RT: 11.950 min Scan# 1678

Delta R.T. 0.000 min

Lab File: VY023380.D

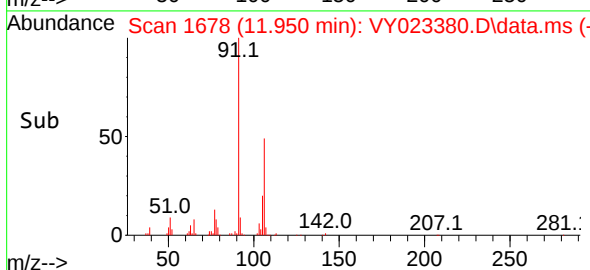
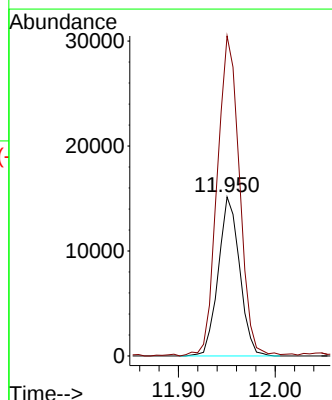
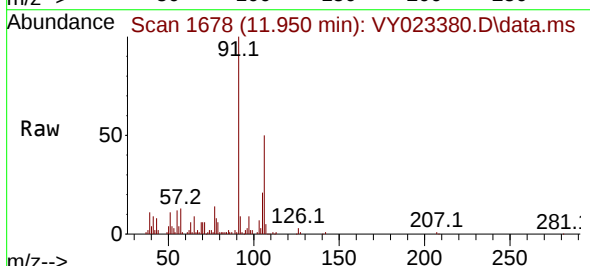
Acq: 25 Sep 2025 17:40

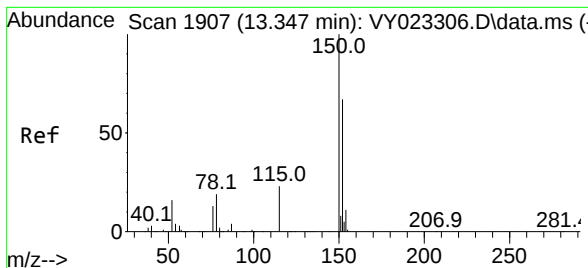
Tgt Ion:106 Resp: 23159

Ion Ratio Lower Upper

106 100

91 210.7 103.2 309.4

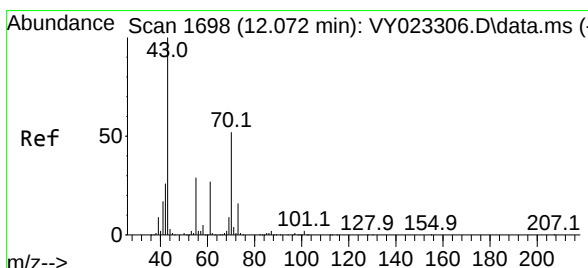
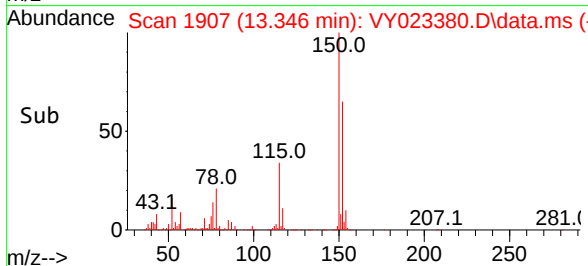
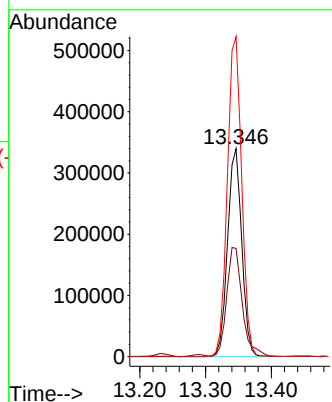
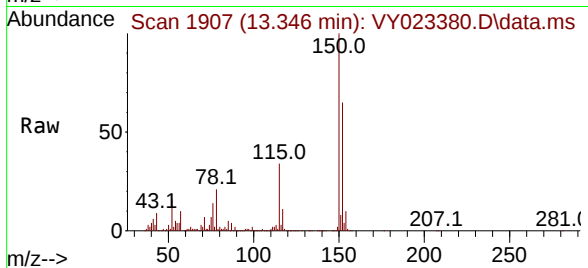




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. 0.006 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

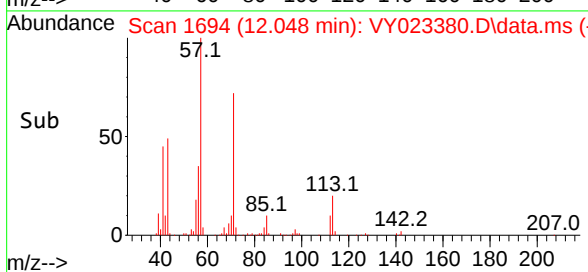
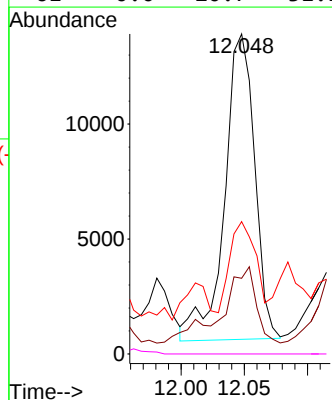
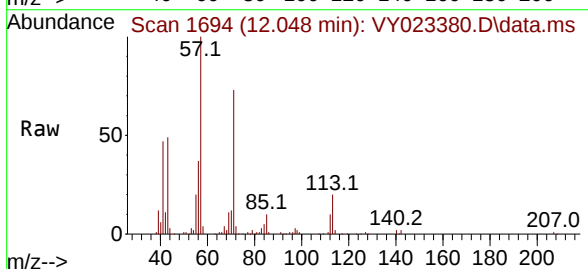
Instrument :
 MSVOA_Y
 ClientSampleId :

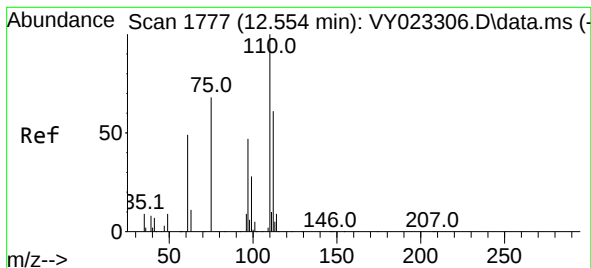
Tgt Ion:	152	Resp:	510257
Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.2	84.6
150	155.6	0.0	348.0



#74
 N-ethyl acetate
 Concen: 3.375 ug/l
 RT: 12.048 min Scan# 1694
 Delta R.T. -0.018 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

Tgt Ion:	43	Resp:	21929
Ion	Ratio	Lower	Upper
43	100		
70	22.2	37.5	56.3#
55	25.1	20.7	31.1
61	0.0	20.7	31.1#





#76

1,2,3-Trichloropropane

Concen: 44.089 ug/l

RT: 12.401 min Scan# 1

Delta R.T. -0.146 min

Lab File: VY023380.D

Acq: 25 Sep 2025 17:40

Instrument :

MSVOA_Y

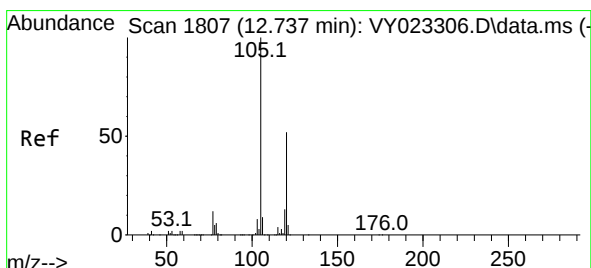
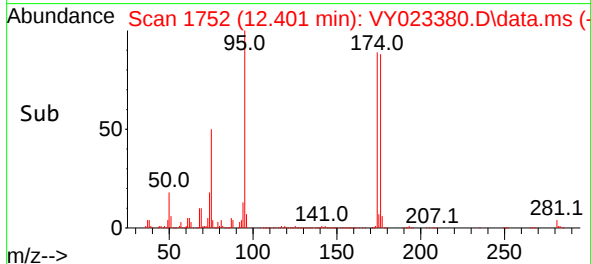
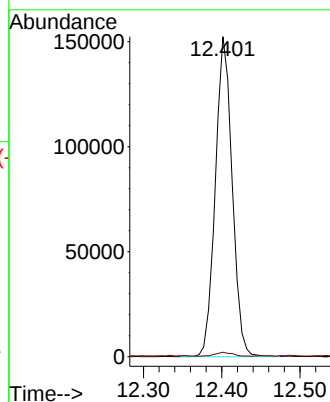
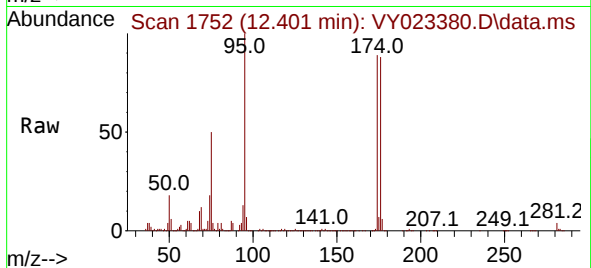
ClientSampleId :

Tgt Ion: 75 Resp: 227820

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 5.966 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VY023380.D

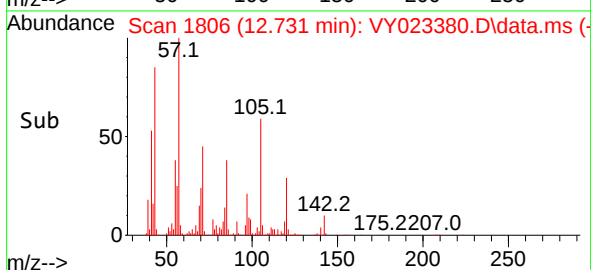
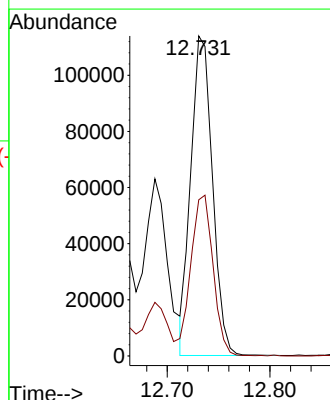
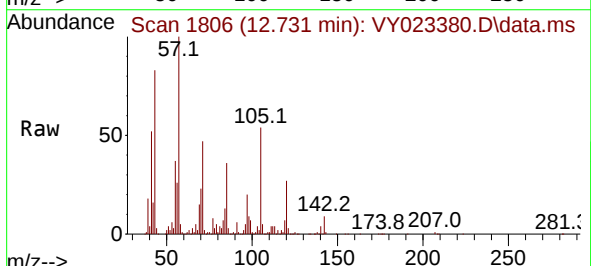
Acq: 25 Sep 2025 17:40

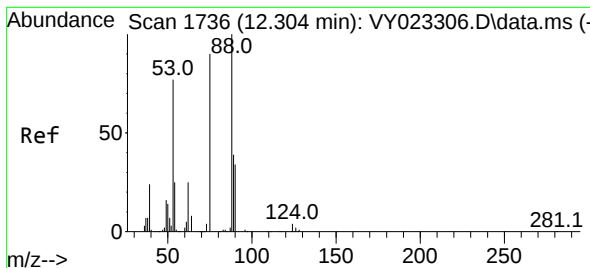
Tgt Ion:105 Resp: 166782

Ion Ratio Lower Upper

105 100

120 52.1 24.8 74.4

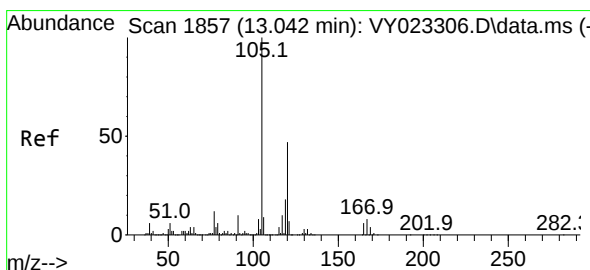
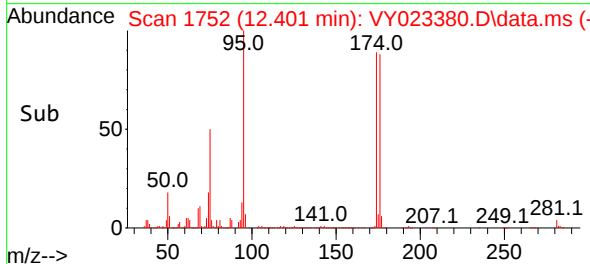
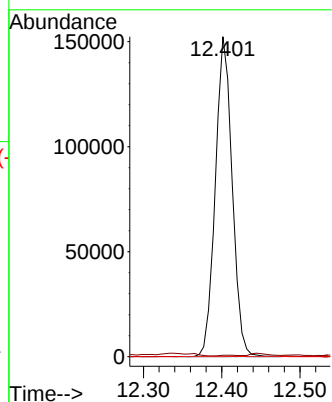
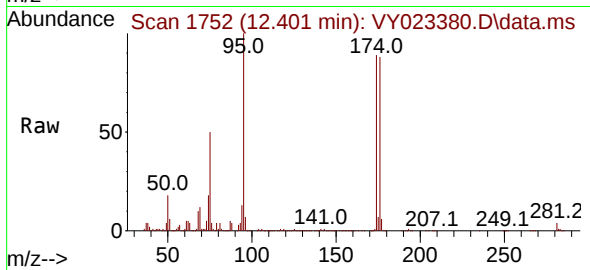




#81
 trans-1,4-Dichloro-2-butene
 Concen: 120.234 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

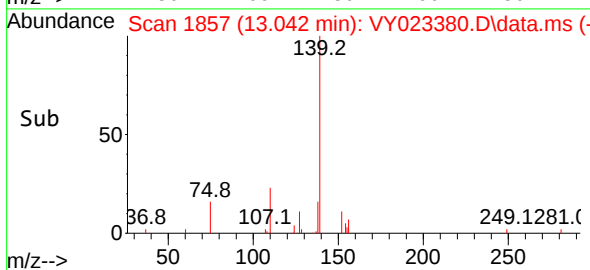
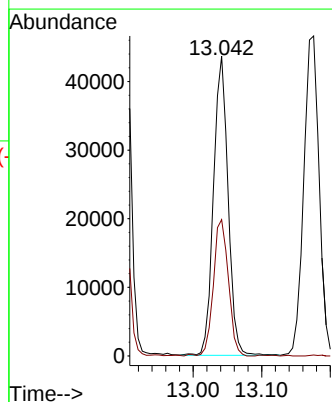
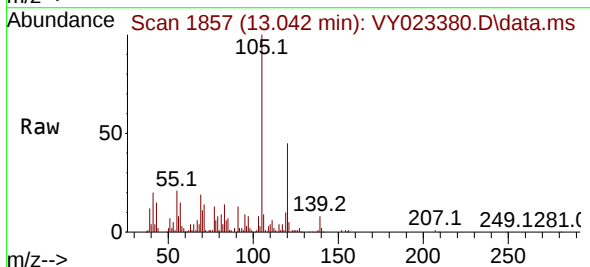
Instrument :
 MSVOA_Y
 ClientSampleId :

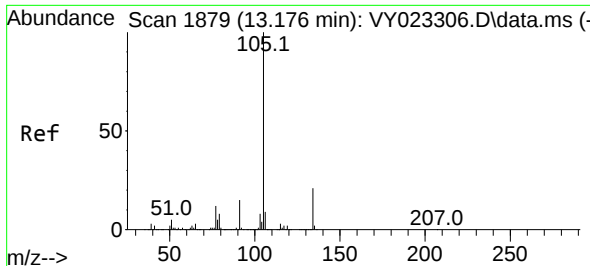
Tgt Ion: 75 Resp: 227820
 Ion Ratio Lower Upper
 75 100
 53 0.2 70.8 106.2#
 89 0.0 38.1 57.1#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.331 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. 0.006 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

Tgt Ion: 105 Resp: 64476
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.0 69.0

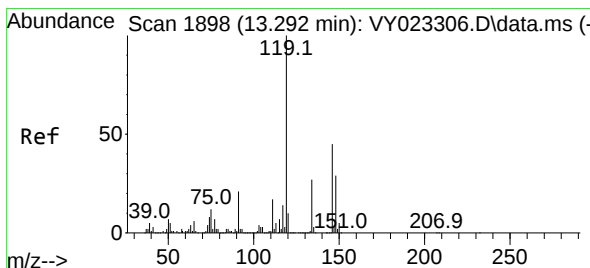
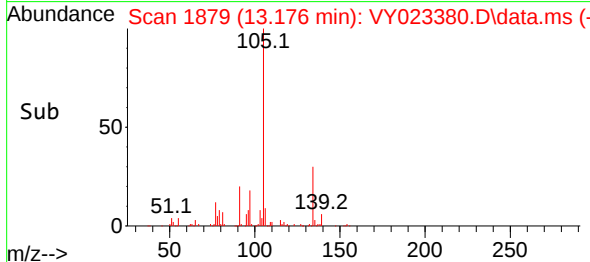
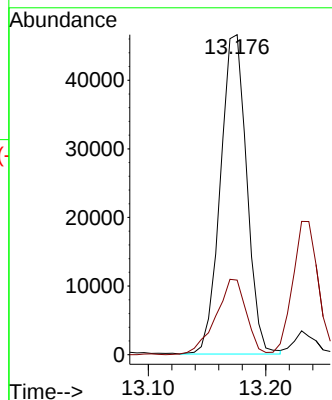
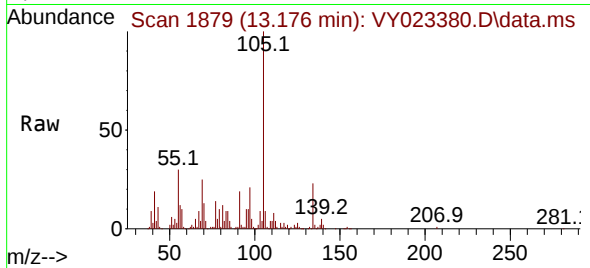




#85
 sec-Butylbenzene
 Concen: 1.965 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. 0.006 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

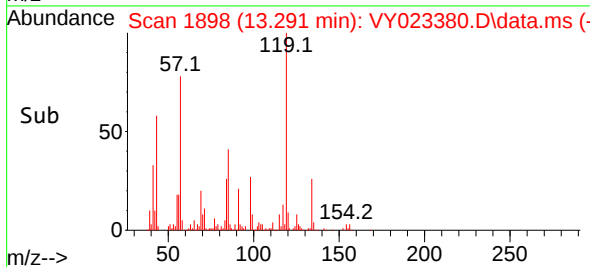
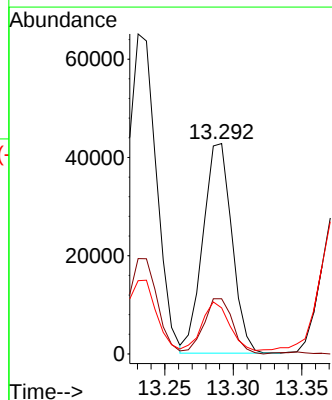
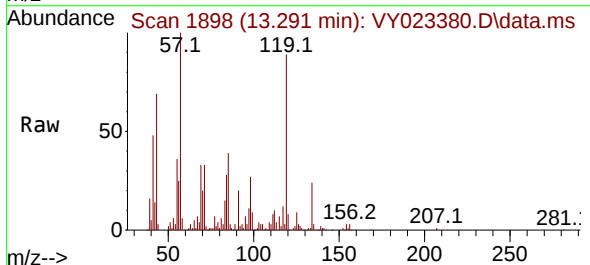
Instrument :
 MSVOA_Y
 ClientSampleId :

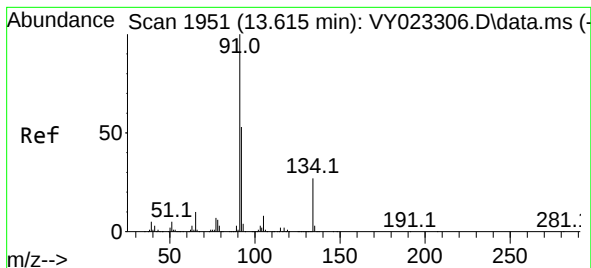
Tgt Ion:105 Resp: 72388
 Ion Ratio Lower Upper
 105 100
 134 27.4 10.2 30.4



#86
 p-Isopropyltoluene
 Concen: 2.016 ug/l
 RT: 13.291 min Scan# 1898
 Delta R.T. 0.006 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

Tgt Ion:119 Resp: 62744
 Ion Ratio Lower Upper
 119 100
 134 26.3 13.2 39.6
 91 20.9 11.3 33.8

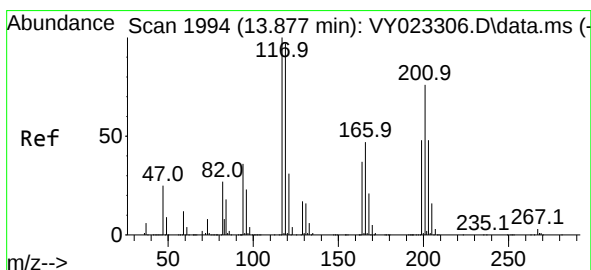
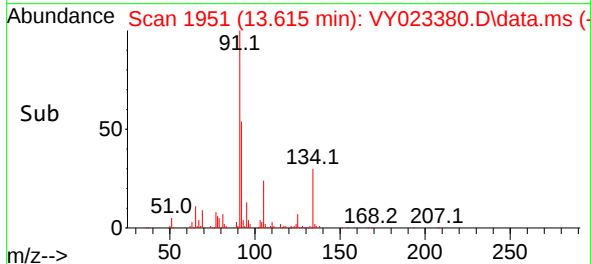
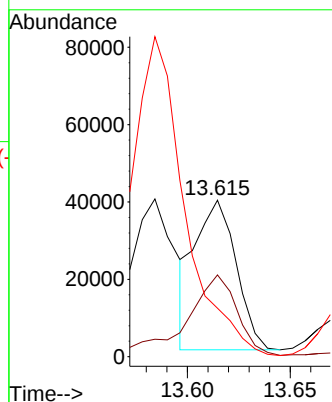
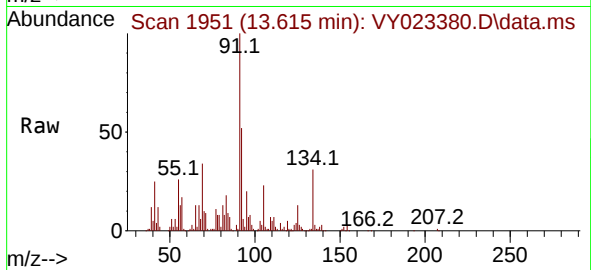




#89
n-Butylbenzene
Concen: 1.939 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. 0.006 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

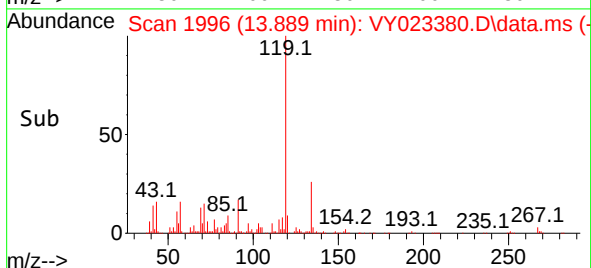
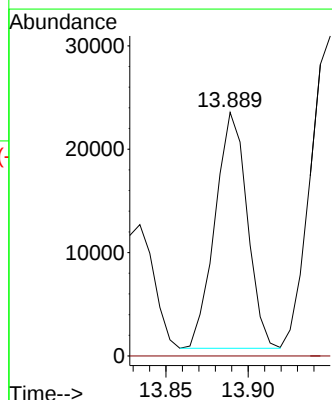
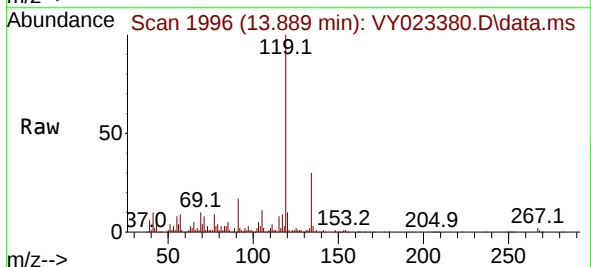
Instrument :
MSVOA_Y
ClientSampleId :

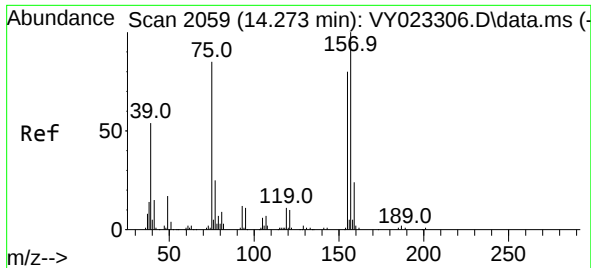
Tgt Ion: 91 Resp: 53509
Ion Ratio Lower Upper
91 100
92 66.5 26.9 80.7
134 0.0 13.2 39.5#



#90
Hexachloroethane
Concen: 4.602 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.018 min
Lab File: VY023380.D
Acq: 25 Sep 2025 17:40

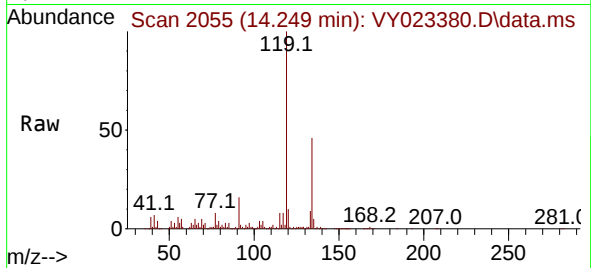
Tgt Ion: 117 Resp: 31048
Ion Ratio Lower Upper
117 100
201 0.0 38.4 115.1#



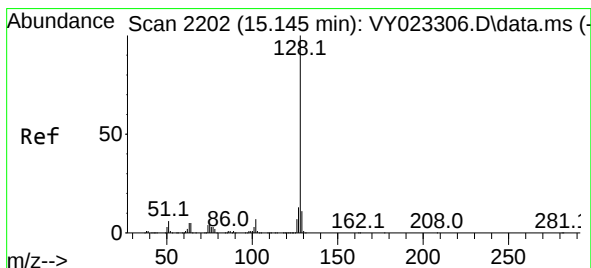
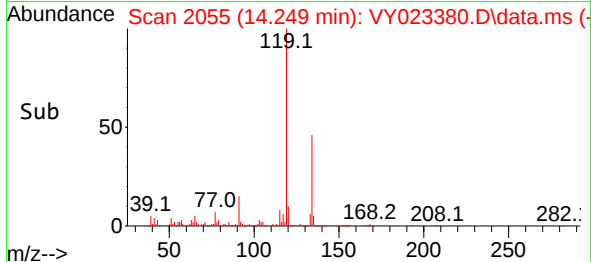
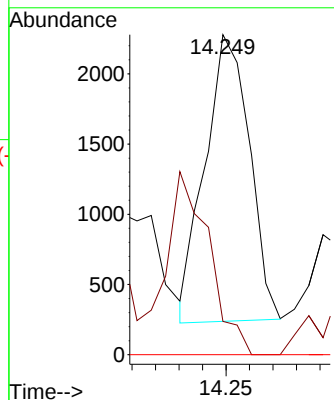


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.966 ug/l
 RT: 14.249 min Scan# 2055
 Delta R.T. -0.018 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 2685
 Ion Ratio Lower Upper
 75 100
 155 61.9 43.9 131.6
 157 0.0 57.2 171.6#



#95
 Naphthalene
 Concen: 1.687 ug/l
 RT: 15.139 min Scan# 2201
 Delta R.T. 0.000 min
 Lab File: VY023380.D
 Acq: 25 Sep 2025 17:40

Tgt Ion: 128 Resp: 23966
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 9.0 13.4#

