

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
 Data File : VY022102.D
 Acq On : 01 May 2025 13:04
 Operator : SY/MD
 Sample : Q1923-01
 Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-04302025

Quant Time: May 02 01:29:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

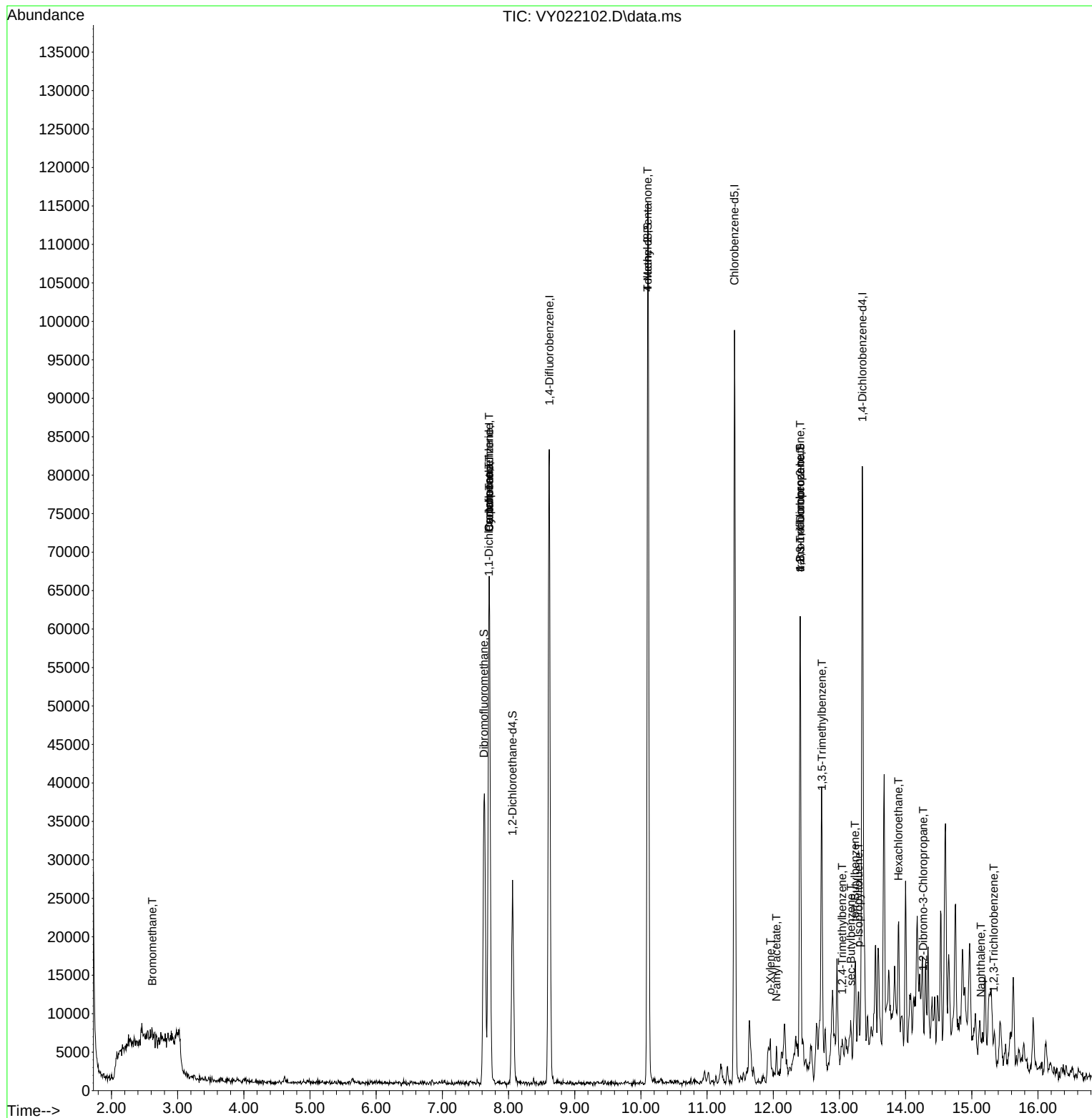
Internal Standards						
1) Pentafluorobenzene	7.707	168	52024	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	73404	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	57489	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	19768	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	20080	41.787	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	83.580%		
35) Dibromofluoromethane	7.628	113	28134	58.015	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	116.020%		
50) Toluene-d8	10.103	98	81190	44.409	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	88.820%		
62) 4-Bromofluorobenzene	12.408	95	18154	29.497	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	59.000%		
Target Compounds						Qvalue
5) Bromomethane	2.617	94	883	1.321	ug/l #	49
16) Acetone	3.854	43	178	Below Cal	#	41
31) Cyclohexane	7.707	56	1070	1.347	ug/l #	3
36) 1,1-Dichloropropene	7.701	75	3789	5.817	ug/l #	43
38) Carbon Tetrachloride	7.707	117	5222	6.709	ug/l #	18
51) 4-Methyl-2-Pentanone	10.103	43	403	1.711	ug/l #	1
69) o-Xylene	11.956	106	878	1.138	ug/l	86
74) N-amyl acetate	12.048	43	810	3.570	ug/l #	83
76) 1,2,3-Trichloropropane	12.408	75	8526	50.354	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	4448	4.088	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	8526	121.259	ug/l #	17
83) tert-Butylbenzene	13.237	119	2695	2.761	ug/l	69
84) 1,2,4-Trimethylbenzene	13.042	105	1261	1.159	ug/l	94
85) sec-Butylbenzene	13.176	105	1560	1.092	ug/l	96
86) p-Isopropyltoluene	13.292	119	1778	1.466	ug/l	87
90) Hexachloroethane	13.889	117	752	2.822	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.267	75	50	1.411	ug/l #	1
95) Naphthalene	15.139	128	580	1.042	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.334	180	320	1.107	ug/l #	2

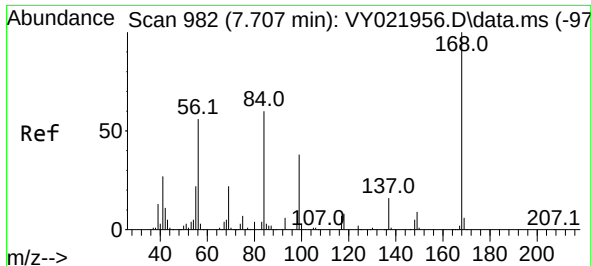
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TR-05-04302025

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Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
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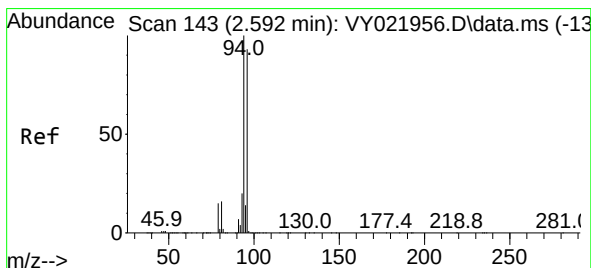
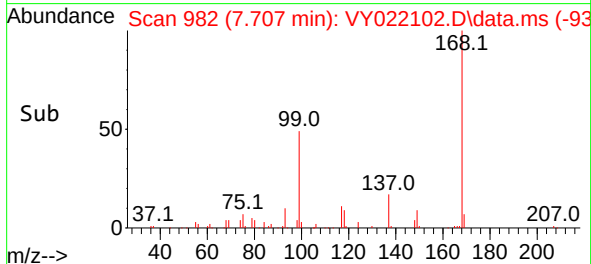
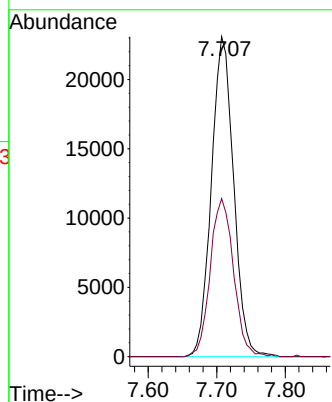
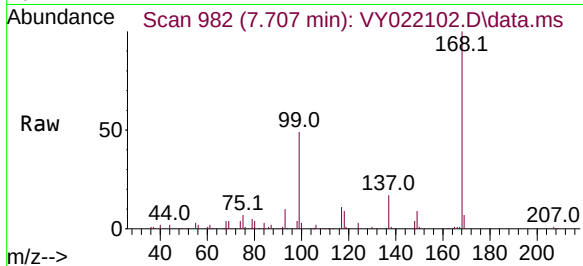




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

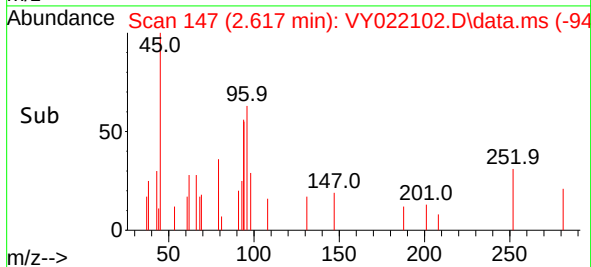
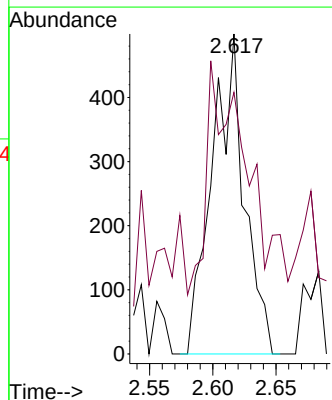
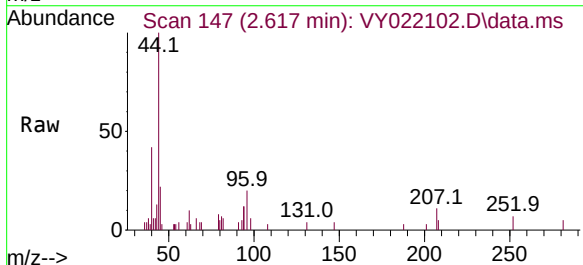
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-04302025

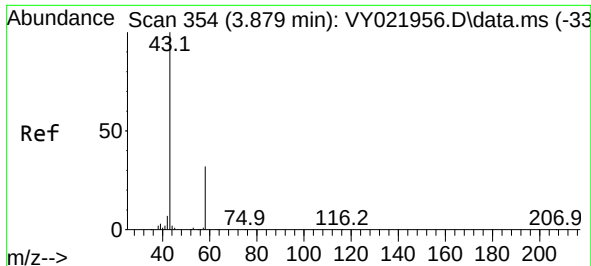
Tgt Ion:168 Resp: 52024
Ion Ratio Lower Upper
168 100
99 49.4 43.1 64.7



#5
Bromomethane
Concen: 1.321 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.024 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 94 Resp: 883
Ion Ratio Lower Upper
94 100
96 44.5 74.6 111.8#

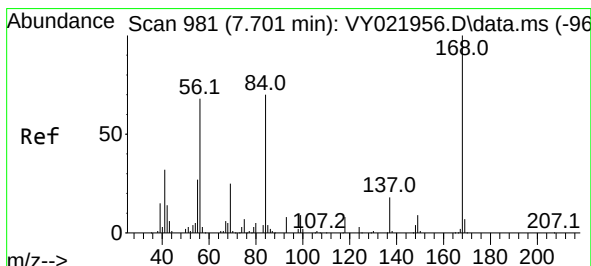
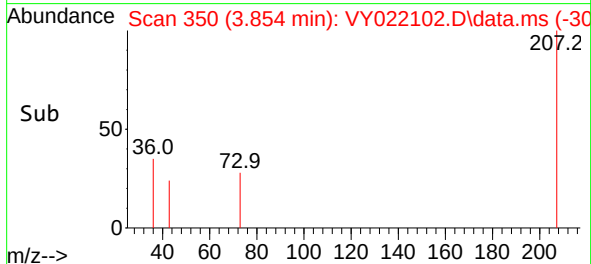
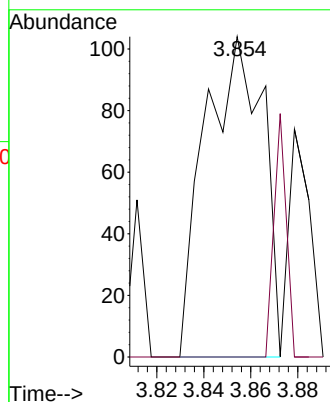
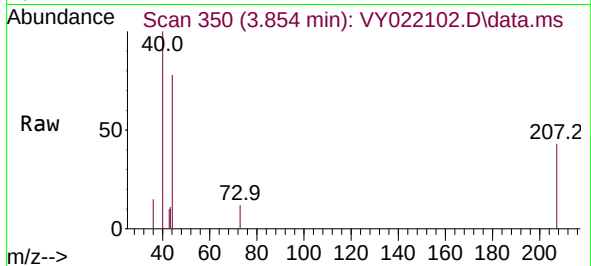




#16
Acetone
Concen: Below Cal
RT: 3.854 min Scan# 31
Delta R.T. -0.025 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

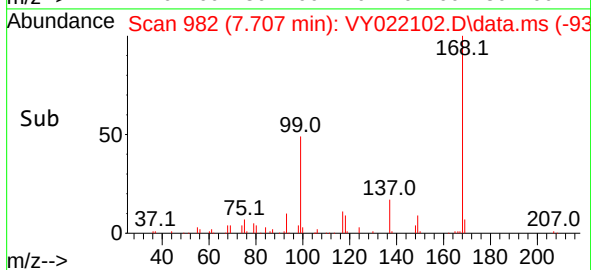
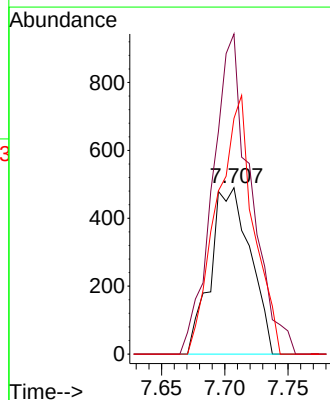
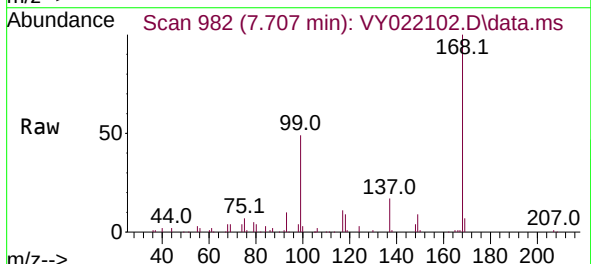
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-04302025

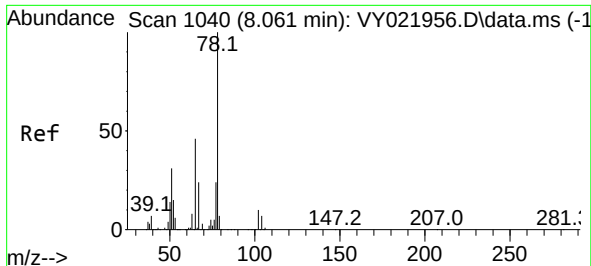
Tgt Ion: 43 Resp: 178
Ion Ratio Lower Upper
43 100
58 0.0 27.0 40.4#



#31
Cyclohexane
Concen: 1.347 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 56 Resp: 1070
Ion Ratio Lower Upper
56 100
69 192.4 29.4 44.2#
84 141.6 82.2 123.4#





#33

1,2-Dichloroethane-d4

Concen: 41.787 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. -0.000 min

Lab File: VY022102.D

Acq: 01 May 2025 13:04

Instrument :

MSVOA_Y

ClientSampleId :

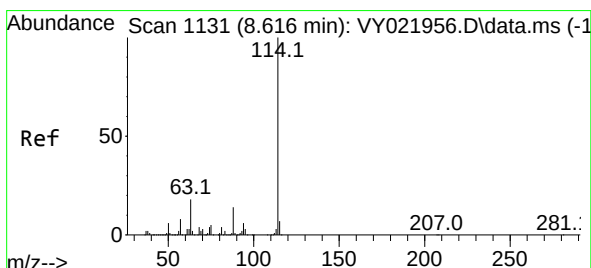
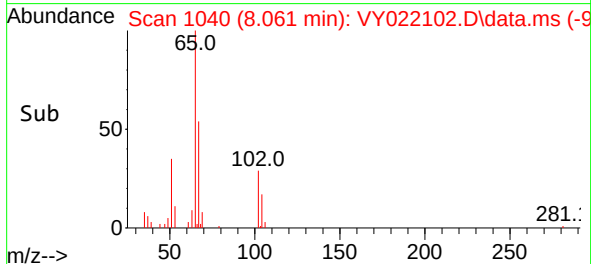
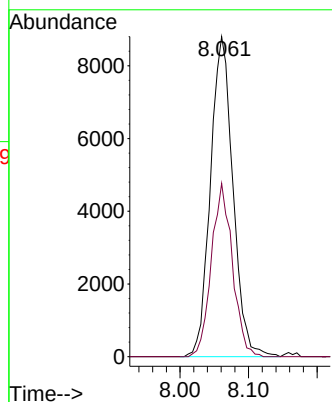
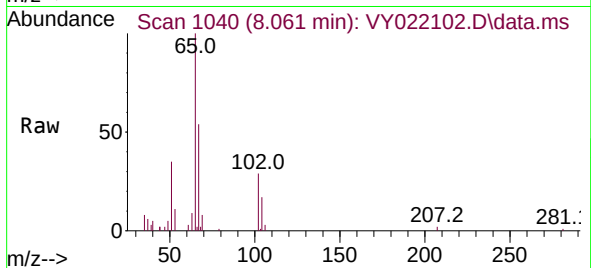
TR-05-04302025

Tgt Ion: 65 Resp: 20080

Ion Ratio Lower Upper

65 100

67 50.5 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022102.D

Acq: 01 May 2025 13:04

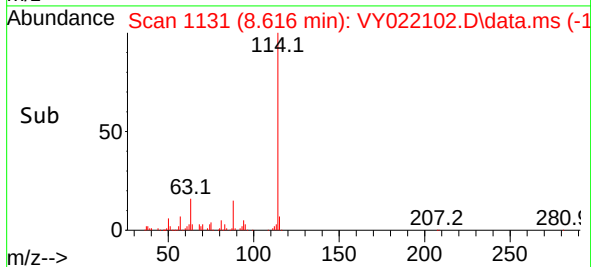
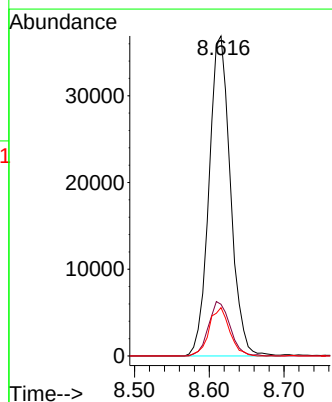
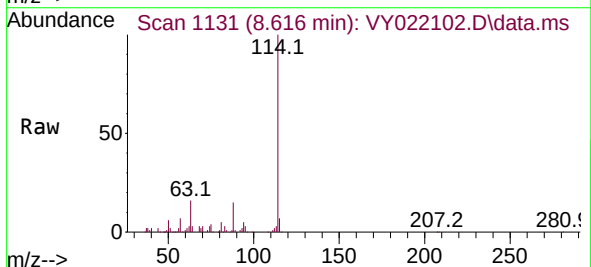
Tgt Ion: 114 Resp: 73404

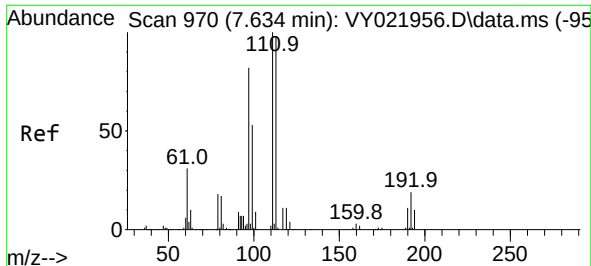
Ion Ratio Lower Upper

114 100

63 16.2 0.0 35.4

88 15.1 0.0 28.2

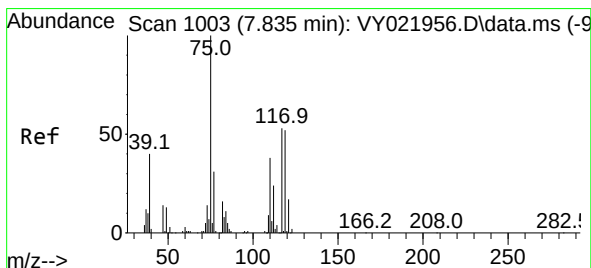
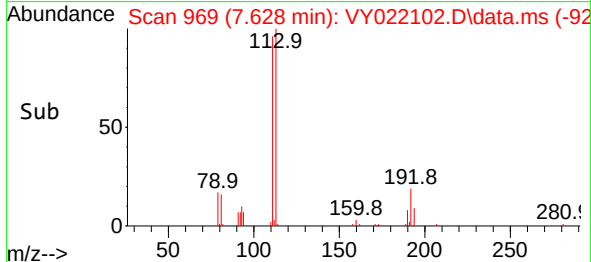
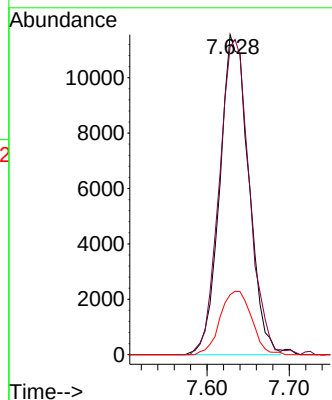
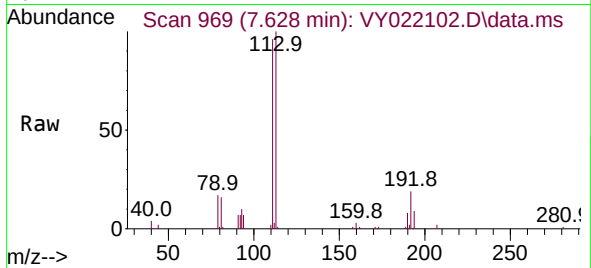




#35
Dibromofluoromethane
Concen: 58.015 ug/l
RT: 7.628 min Scan# 90
Delta R.T. -0.006 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

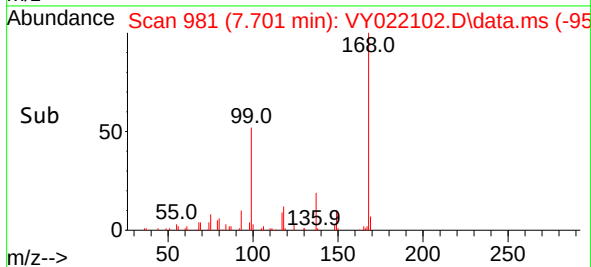
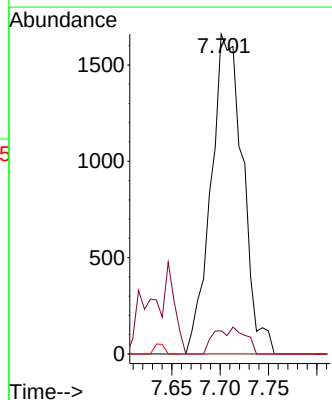
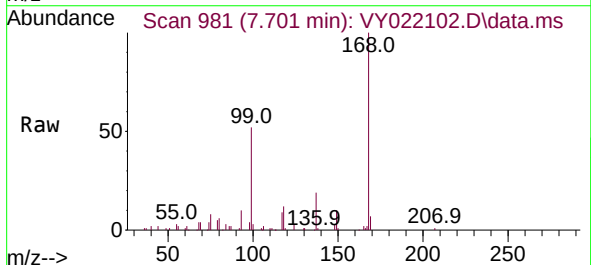
Instrument :
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ClientSampleId :
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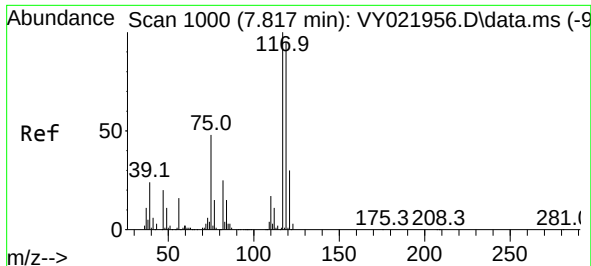
Tgt Ion:113 Resp: 28134
Ion Ratio Lower Upper
113 100
111 103.0 81.8 122.8
192 21.6 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.817 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 75 Resp: 3789
Ion Ratio Lower Upper
75 100
110 4.0 19.1 57.3#
77 0.0 25.5 38.3#

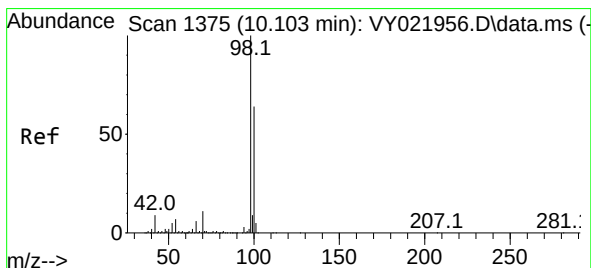
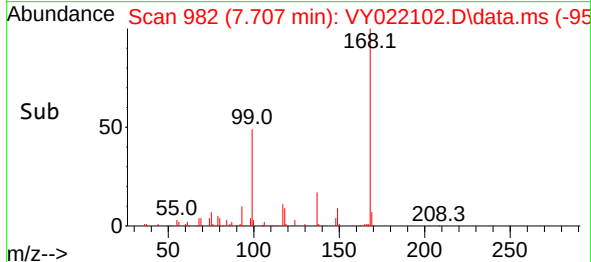
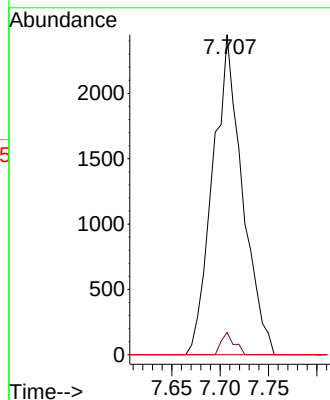
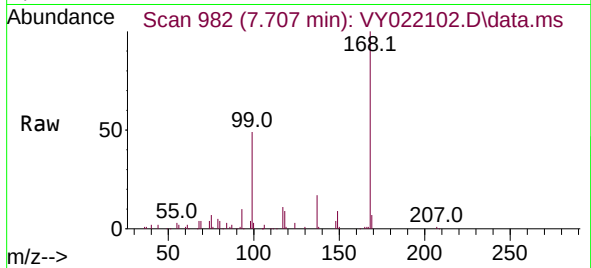




#38
Carbon Tetrachloride
Concen: 6.709 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

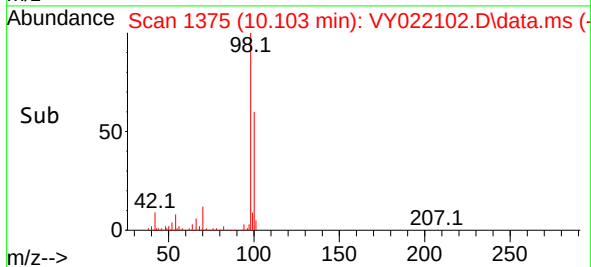
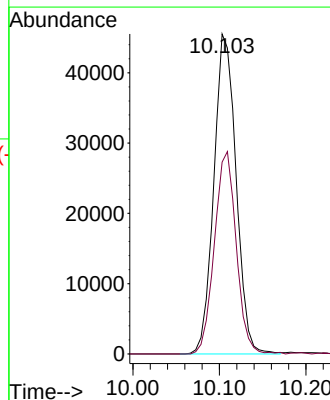
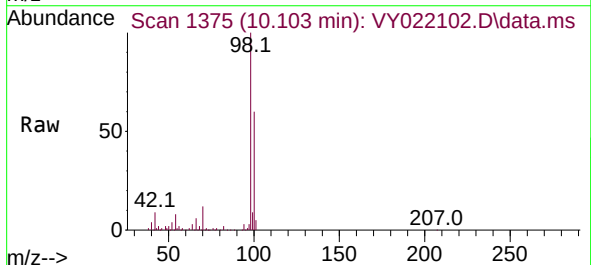
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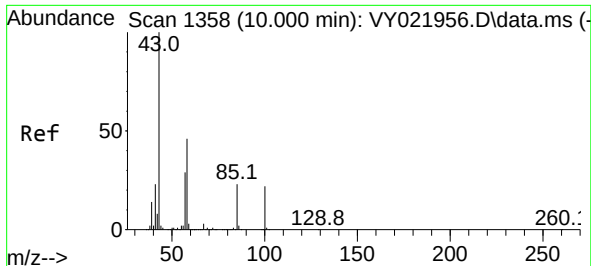
Tgt Ion:117 Resp: 5222
Ion Ratio Lower Upper
117 100
119 7.0 76.2 114.4#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 44.409 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 98 Resp: 81190
Ion Ratio Lower Upper
98 100
100 62.0 51.6 77.4

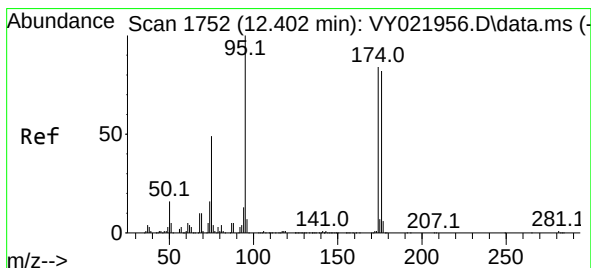
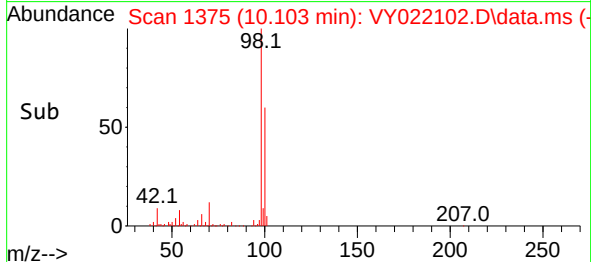
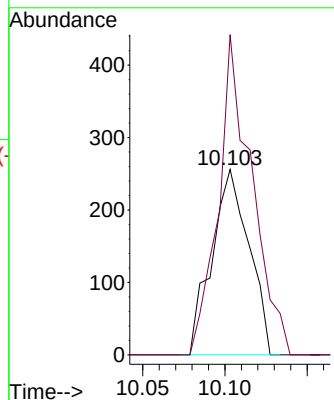
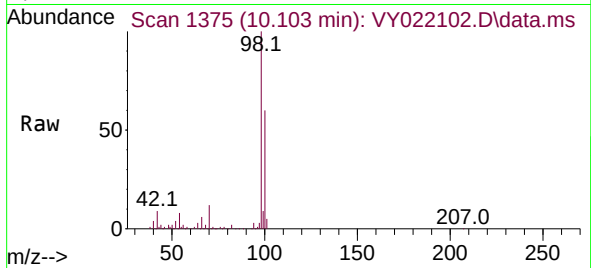




#51
4-Methyl-2-Pentanone
Concen: 1.711 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

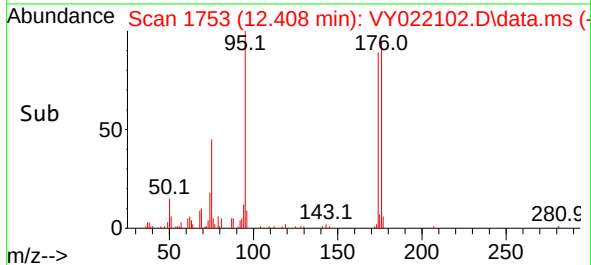
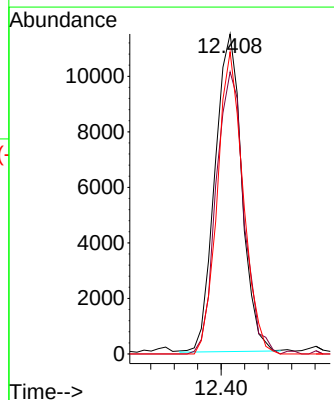
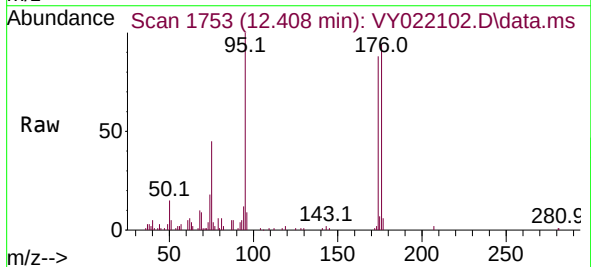
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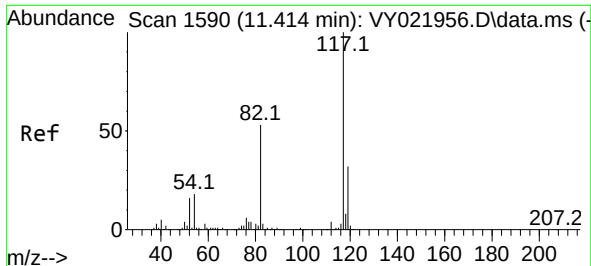
Tgt Ion: 43 Resp: 403
Ion Ratio Lower Upper
43 100
58 155.3 36.6 55.0#



#62
4-Bromofluorobenzene
Concen: 29.497 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 95 Resp: 18154
Ion Ratio Lower Upper
95 100
174 92.0 0.0 179.0
176 91.3 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022102.D

Acq: 01 May 2025 13:04

Instrument :

MSVOA_Y

ClientSampleId :

TR-05-04302025

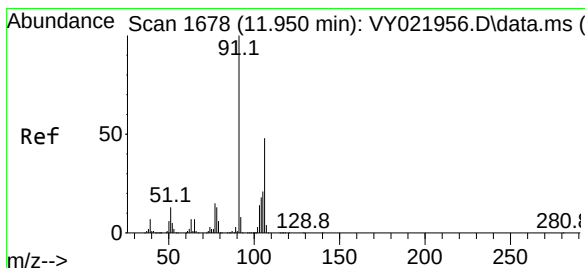
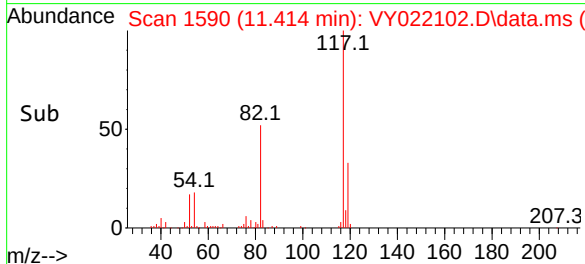
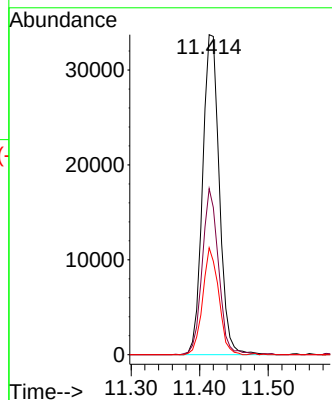
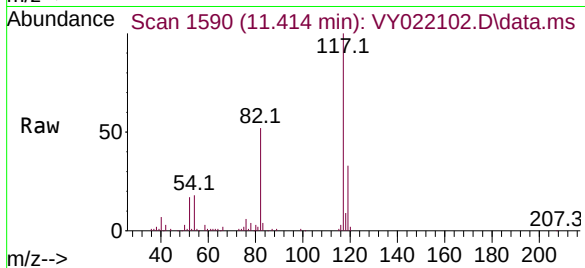
Tgt Ion:117 Resp: 57489

Ion Ratio Lower Upper

117 100

82 51.9 42.1 63.1

119 33.4 25.7 38.5



#69

o-Xylene

Concen: 1.138 ug/l

RT: 11.956 min Scan# 1679

Delta R.T. 0.006 min

Lab File: VY022102.D

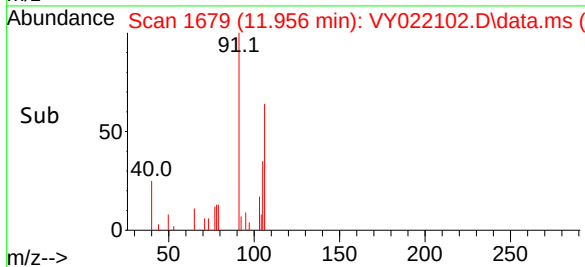
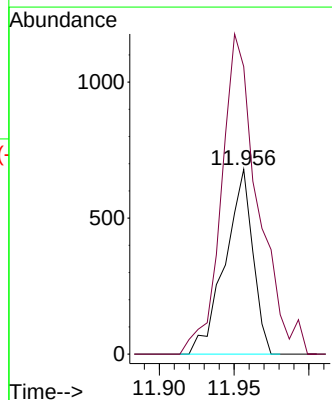
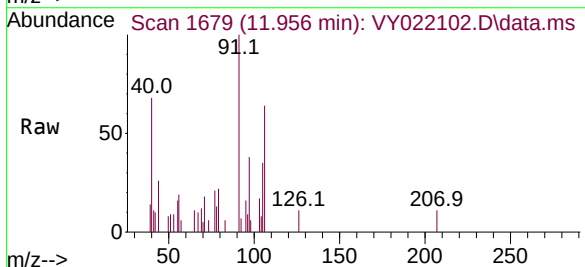
Acq: 01 May 2025 13:04

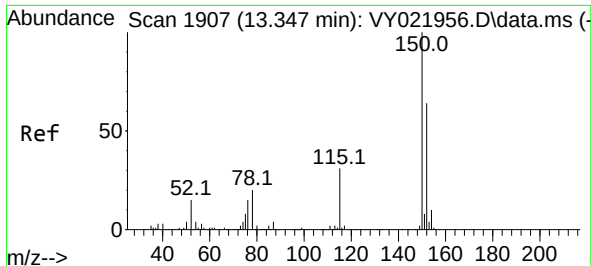
Tgt Ion:106 Resp: 878

Ion Ratio Lower Upper

106 100

91 228.0 103.0 308.9

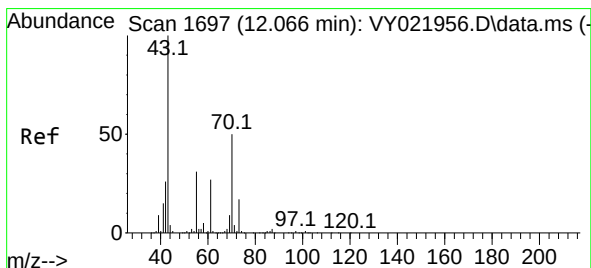
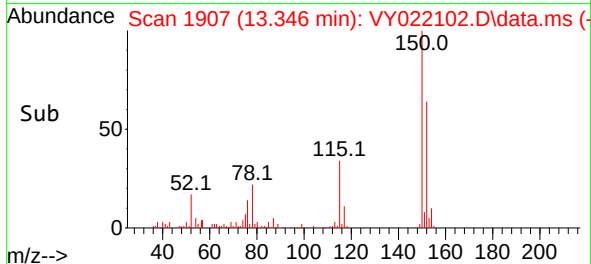
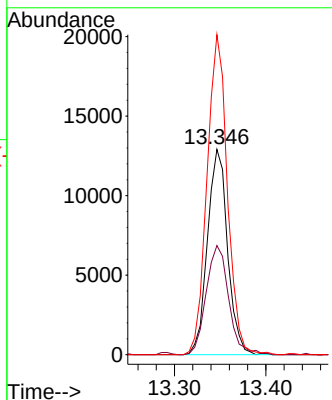
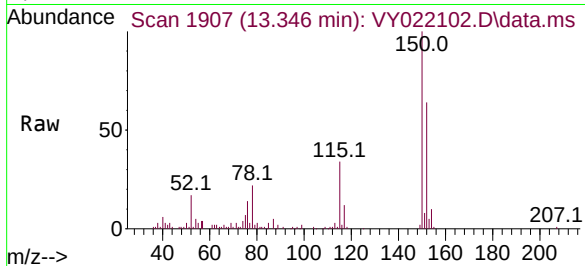




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

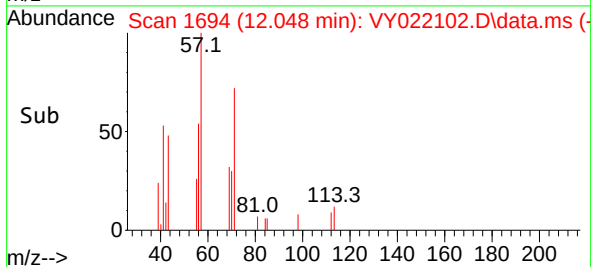
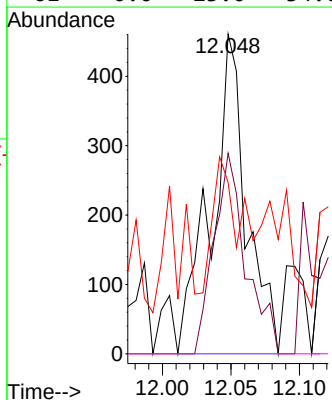
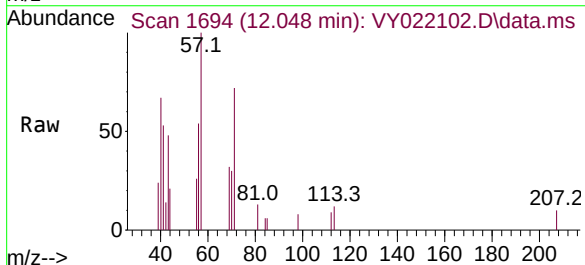
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-04302025

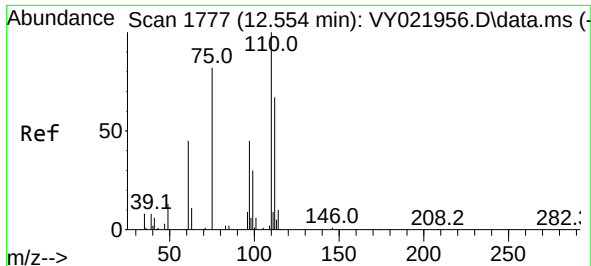
Tgt Ion:152 Resp: 19768
Ion Ratio Lower Upper
152 100
115 59.3 28.0 84.0
150 157.6 0.0 345.6



#74
N-ethyl acetate
Concen: 3.570 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.018 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 43 Resp: 810
Ion Ratio Lower Upper
43 100
70 57.9 43.2 64.8
55 33.5 25.7 38.5
61 0.0 23.0 34.6#

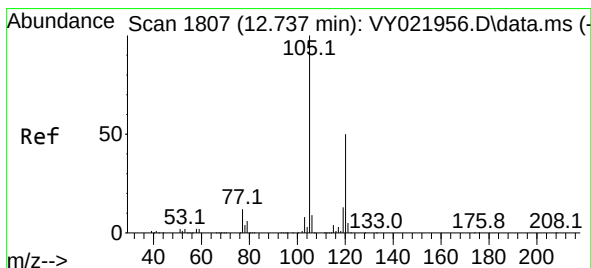
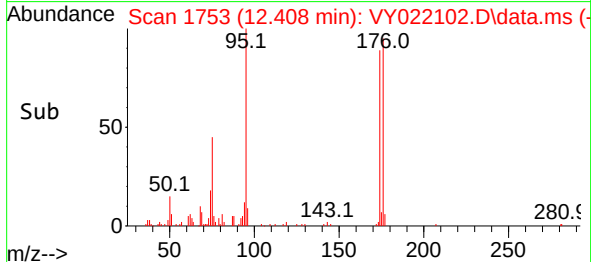
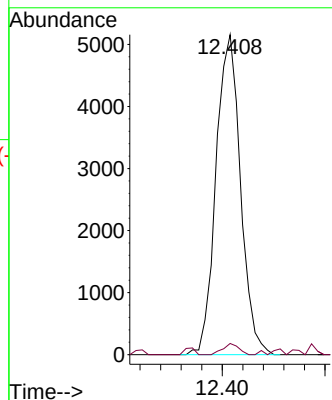
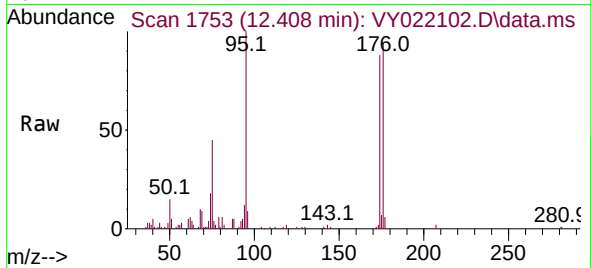




#76
1,2,3-Trichloropropane
Concen: 50.354 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

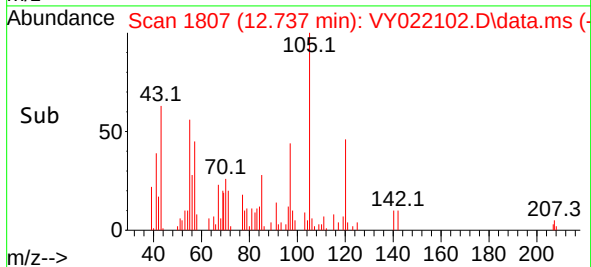
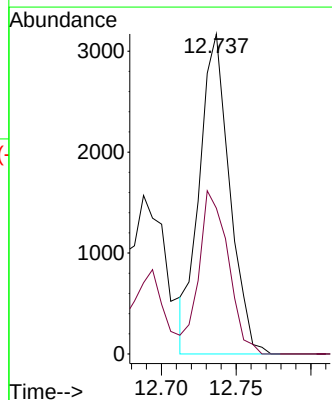
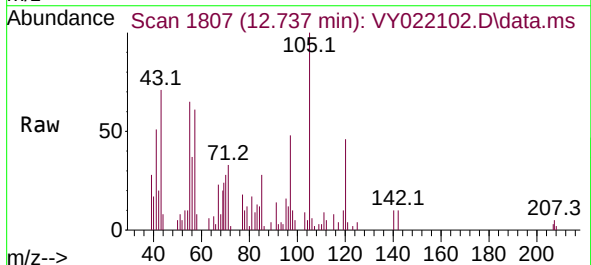
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-04302025

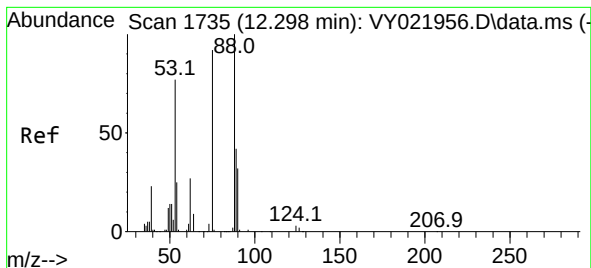
Tgt Ion: 75 Resp: 8526
Ion Ratio Lower Upper
75 100
77 2.3 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 4.088 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 105 Resp: 4448
Ion Ratio Lower Upper
105 100
120 49.5 25.0 75.0

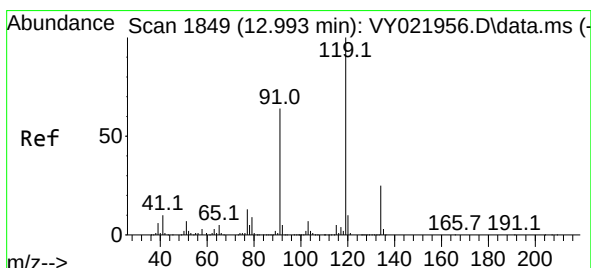
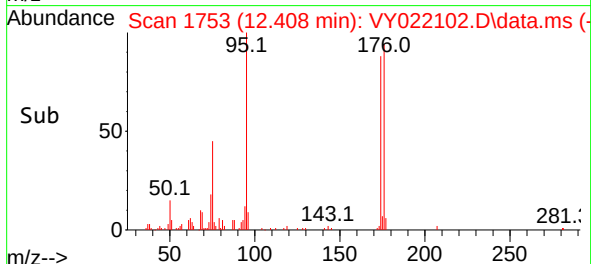
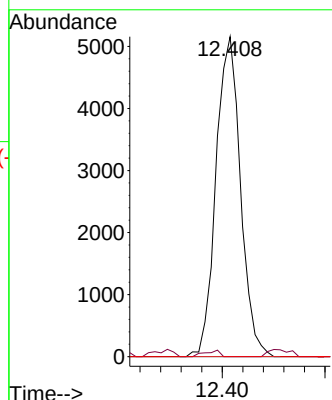
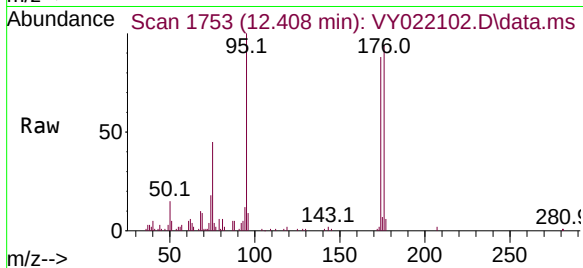




#81
 trans-1,4-Dichloro-2-butene
 Concen: 121.259 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY022102.D
 Acq: 01 May 2025 13:04

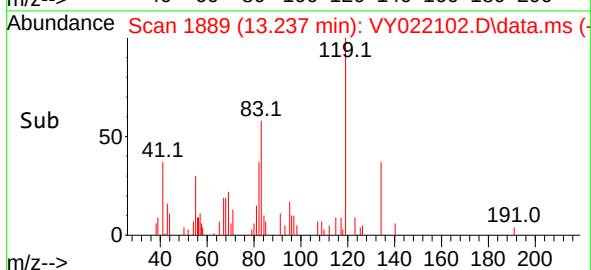
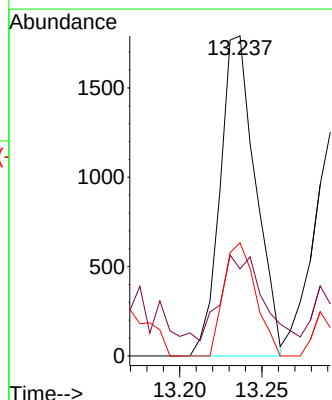
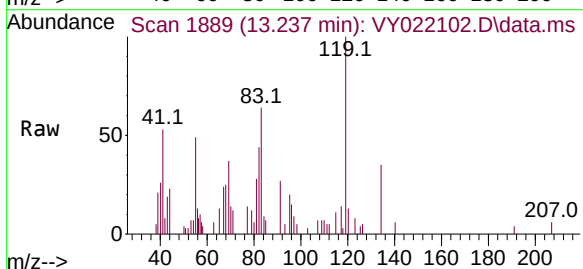
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-04302025

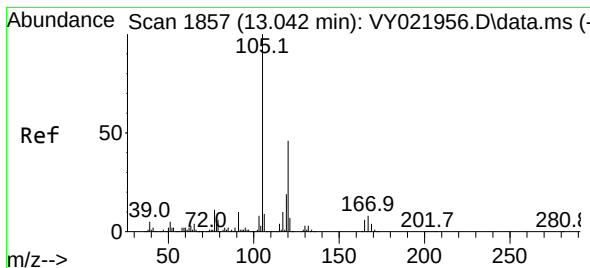
Tgt Ion: 75 Resp: 8526
 Ion Ratio Lower Upper
 75 100
 53 1.2 66.0 99.0#
 89 0.0 37.2 55.8#



#83
 tert-Butylbenzene
 Concen: 2.761 ug/l
 RT: 13.237 min Scan# 1889
 Delta R.T. 0.244 min
 Lab File: VY022102.D
 Acq: 01 May 2025 13:04

Tgt Ion: 119 Resp: 2695
 Ion Ratio Lower Upper
 119 100
 91 31.0 30.3 90.9
 134 31.9 12.9 38.7





#84

1,2,4-Trimethylbenzene

Concen: 1.159 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.000 min

Lab File: VY022102.D

Acq: 01 May 2025 13:04

Instrument :

MSVOA_Y

ClientSampleId :

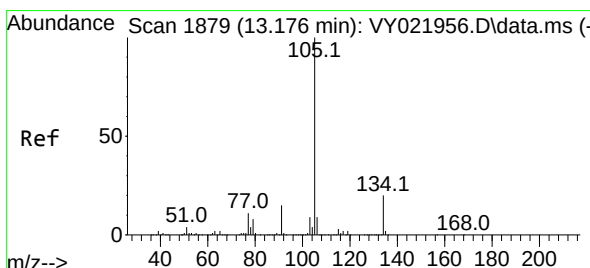
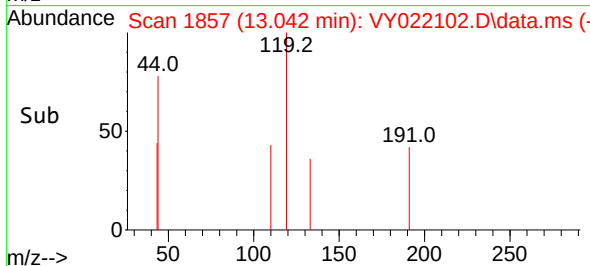
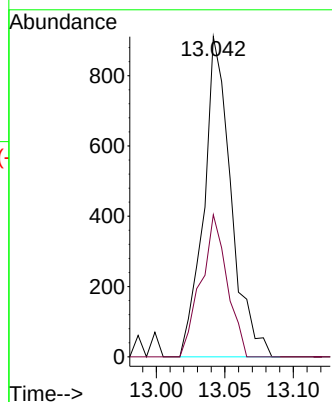
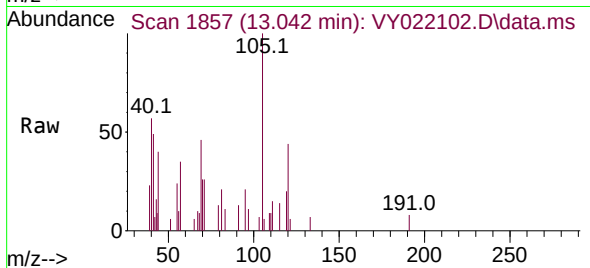
TR-05-04302025

Tgt Ion:105 Resp: 1261

Ion Ratio Lower Upper

105 100

120 42.5 23.4 70.0



#85

sec-Butylbenzene

Concen: 1.092 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.000 min

Lab File: VY022102.D

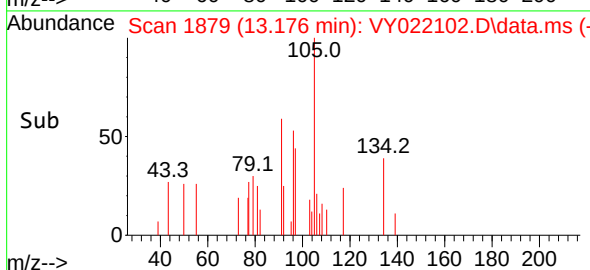
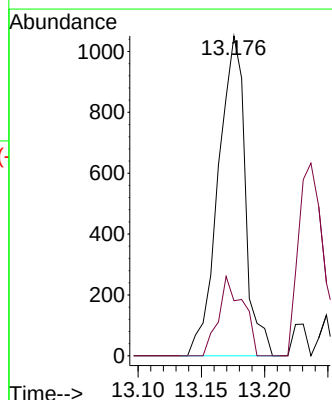
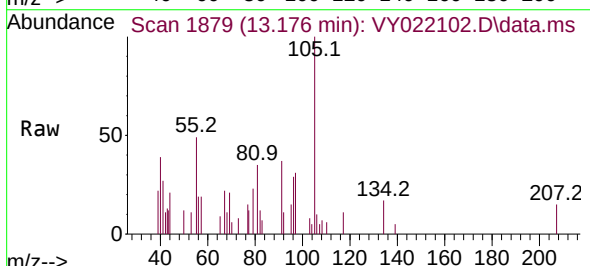
Acq: 01 May 2025 13:04

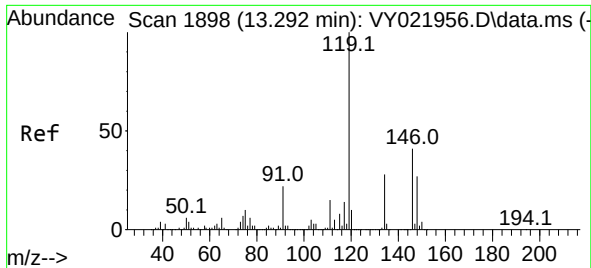
Tgt Ion:105 Resp: 1560

Ion Ratio Lower Upper

105 100

134 22.5 10.3 30.9

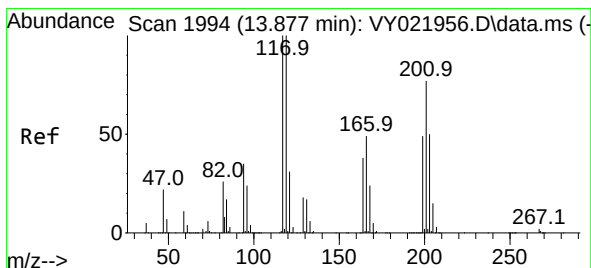
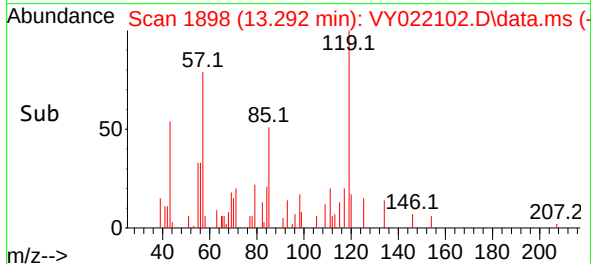
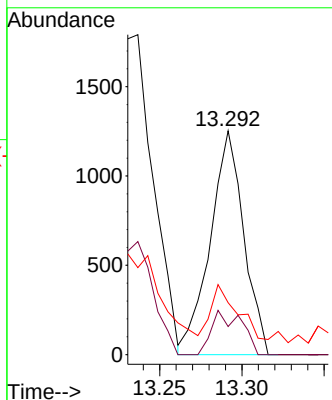
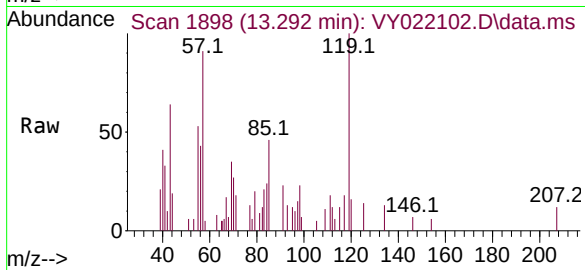




#86
 p-Isopropyltoluene
 Concen: 1.466 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. -0.000 min
 Lab File: VY022102.D
 Acq: 01 May 2025 13:04

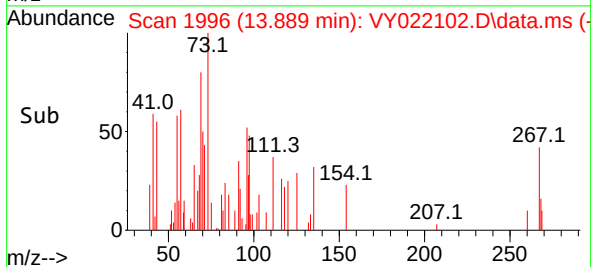
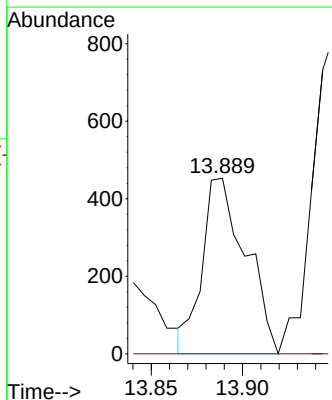
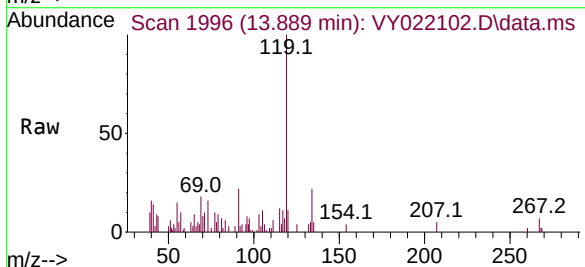
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-04302025

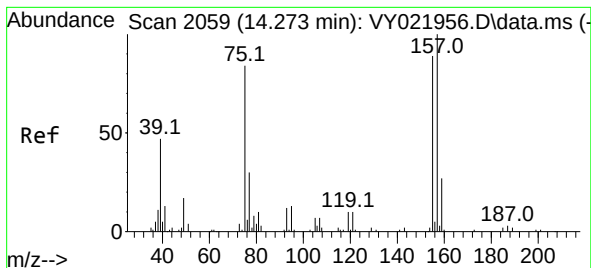
Tgt Ion:	119	Resp:	1778
Ion	Ratio	Lower	Upper
119	100		
134	17.5	13.6	40.7
91	18.8	11.0	33.0



#90
 Hexachloroethane
 Concen: 2.822 ug/l
 RT: 13.889 min Scan# 1996
 Delta R.T. 0.012 min
 Lab File: VY022102.D
 Acq: 01 May 2025 13:04

Tgt Ion:	117	Resp:	752
Ion	Ratio	Lower	Upper
117	100		
201	0.0	38.7	116.1#

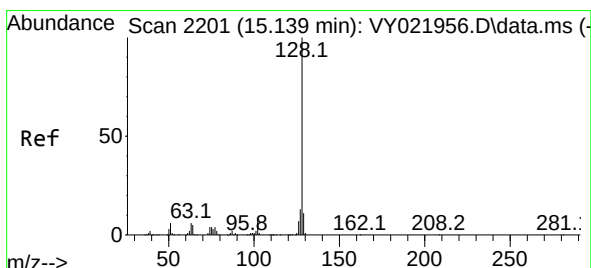
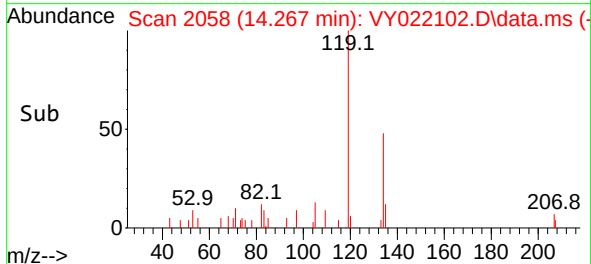
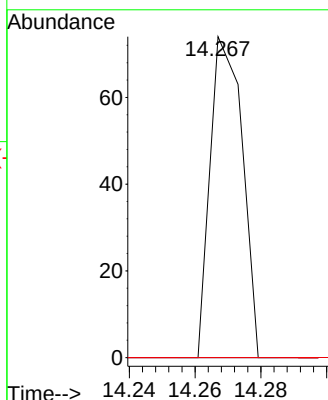
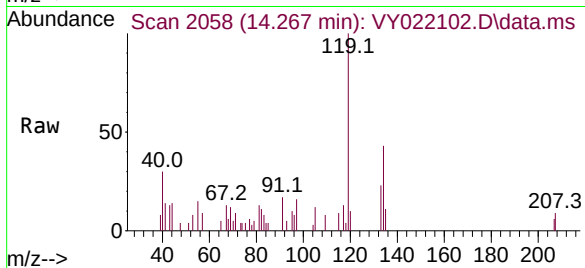




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.411 ug/l
RT: 14.267 min Scan# 2059
Delta R.T. -0.006 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

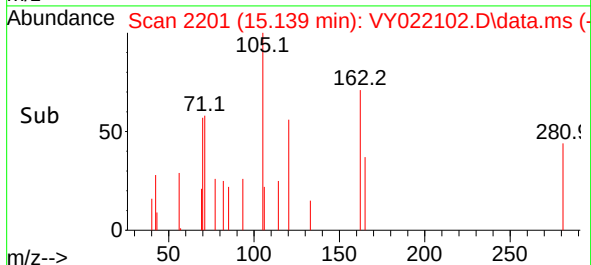
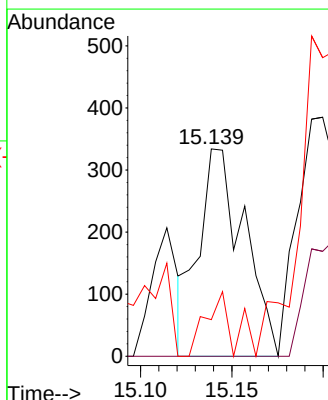
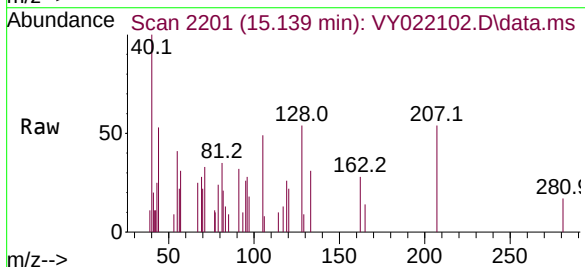
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-04302025

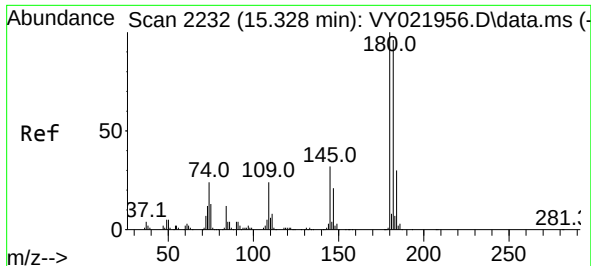
Tgt Ion: 75 Resp: 50
Ion Ratio Lower Upper
75 100
155 0.0 50.7 152.3#
157 0.0 62.6 187.8#



#95
Naphthalene
Concen: 1.042 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. -0.000 min
Lab File: VY022102.D
Acq: 01 May 2025 13:04

Tgt Ion: 128 Resp: 580
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 14.3 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.107 ug/l
 RT: 15.334 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY022102.D
 Acq: 01 May 2025 13:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-04302025

Tgt Ion	Ratio	Lower	Upper
180	100		
182	63.1	48.1	144.4
145	194.1	16.0	48.0#

