

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023229.D
 Acq On : 28 Aug 2025 16:15
 Operator : SY/MD
 Sample : Q2964-01
 Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBBX4R

Quant Time: Aug 29 02:12:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

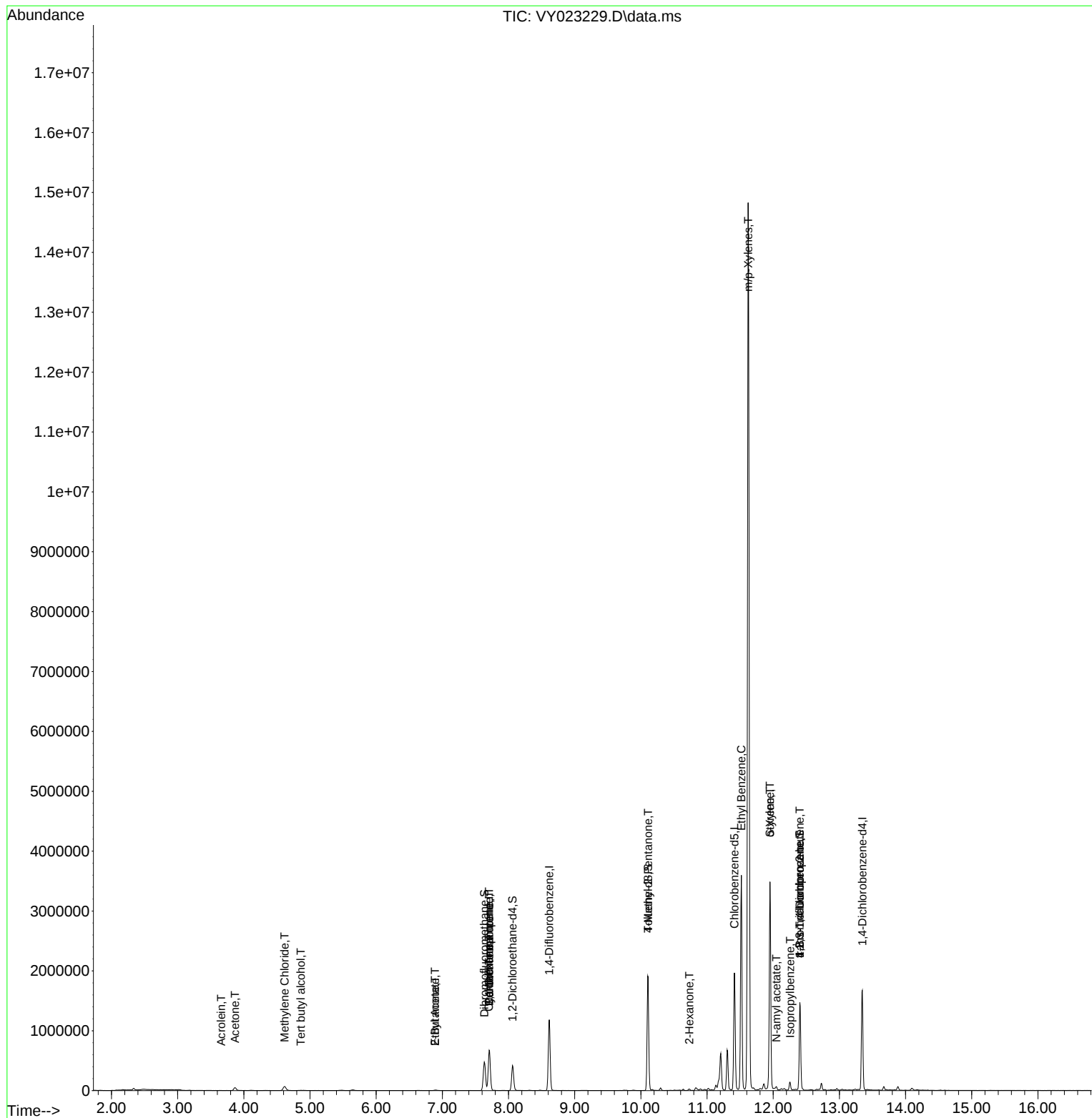
Internal Standards						
1) Pentafluorobenzene	7.707	168	536714	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1037130	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1043264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	449321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	321088	62.771	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 125.540%	
35) Dibromofluoromethane	7.634	113	343955	55.424	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.840%	
50) Toluene-d8	10.109	98	1280473	52.817	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 105.640%	
62) 4-Bromofluorobenzene	12.401	95	434029	55.668	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 111.340%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	4428	12.634	ug/l #	86
13) Acrolein	3.659	56	570	1.110	ug/l #	72
16) Acetone	3.866	43	83271	75.141	ug/l	98
20) Methylene Chloride	4.616	84	54154	7.071	ug/l	94
25) 2-Butanone	6.890	43	11150	7.398	ug/l	98
31) Cyclohexane	7.701	56	11436	1.200	ug/l #	41
36) 1,1-Dichloropropene	7.707	75	39110	4.241	ug/l #	49
37) Ethyl Acetate	6.890	43	11150	2.878	ug/l #	69
38) Carbon Tetrachloride	7.707	117	50777	5.069	ug/l #	18
51) 4-Methyl-2-Pentanone	10.109	43	5199	1.287	ug/l #	1
59) 2-Hexanone	10.731	43	8723	3.172	ug/l #	27
67) Ethyl Benzene	11.518	91	2388519	61.677	ug/l	98
68) m/p-Xylenes	11.621	106	4347804	287.460	ug/l	93
69) o-Xylene	11.950	106	908406	64.126	ug/l	99
70) Styrene	11.950	104	46328	2.000	ug/l #	1
73) Isopropylbenzene	12.255	105	85272	2.689	ug/l	99
74) N-amyl acetate	12.048	43	9831	1.462	ug/l #	50
76) 1,2,3-Trichloropropane	12.401	75	219759	50.677	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	219759	122.674	ug/l #	14

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

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Quant Time: Aug 29 02:12:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

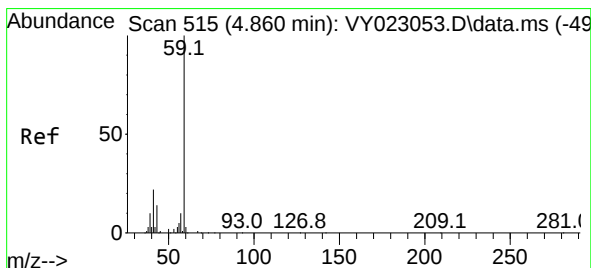
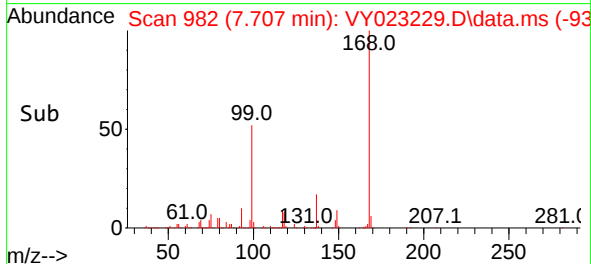
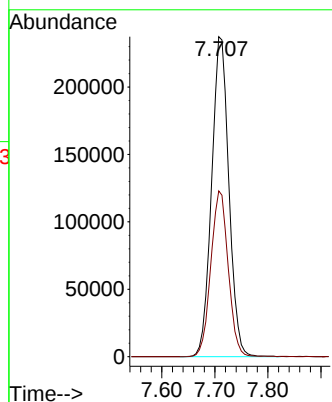
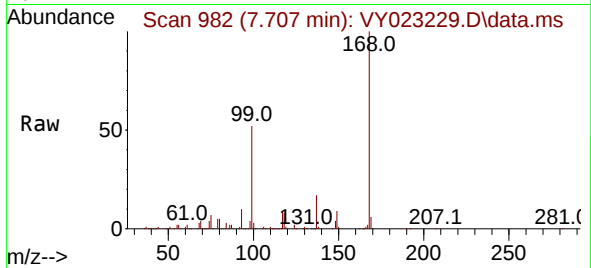




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

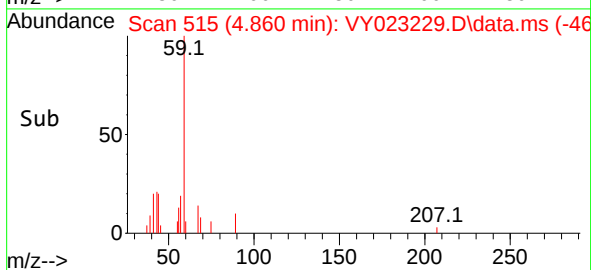
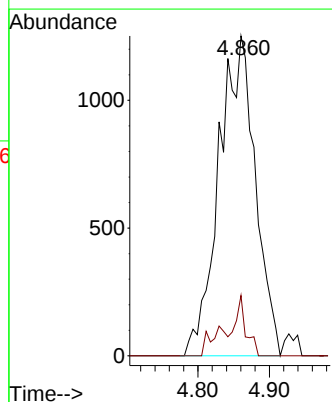
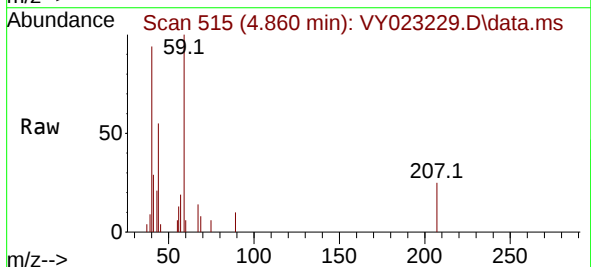
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

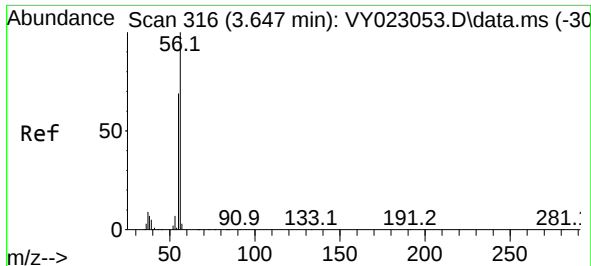
Tgt Ion:168 Resp: 536714
Ion Ratio Lower Upper
168 100
99 51.8 42.8 64.2



#11
Tert butyl alcohol
Concen: 12.634 ug/l
RT: 4.860 min Scan# 515
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 59 Resp: 4428
Ion Ratio Lower Upper
59 100
57 5.7 8.6 13.0#

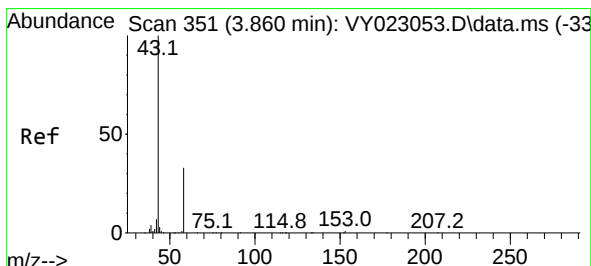
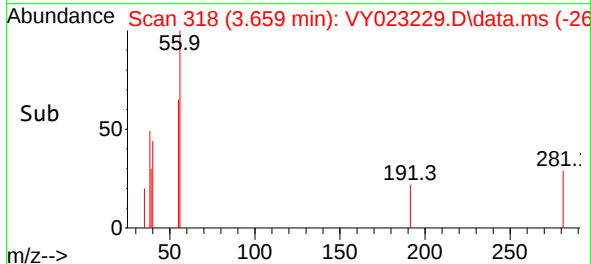
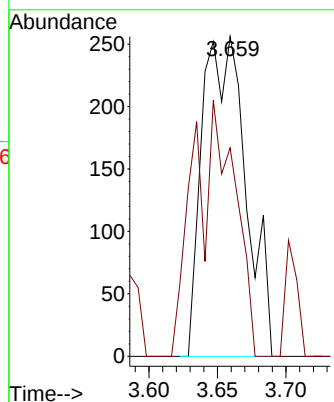
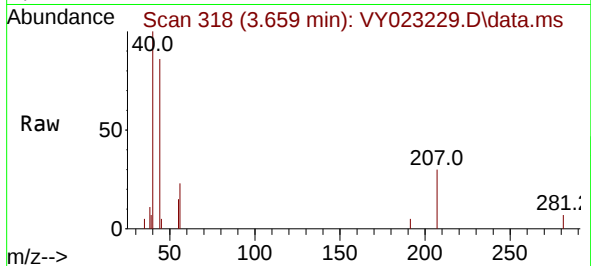




#13
Acrolein
Concen: 1.110 ug/l
RT: 3.659 min Scan# 316
Delta R.T. 0.012 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

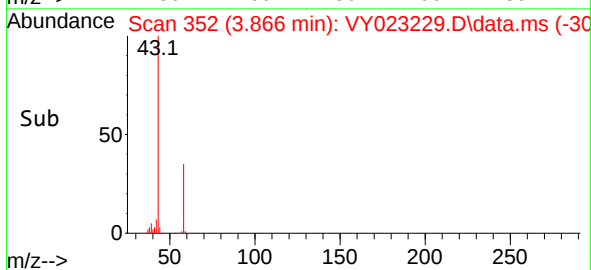
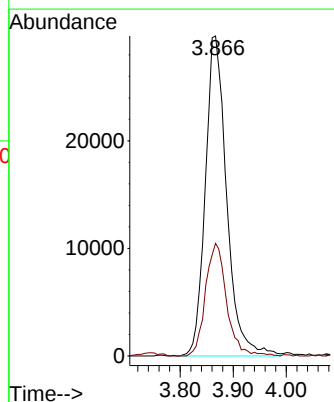
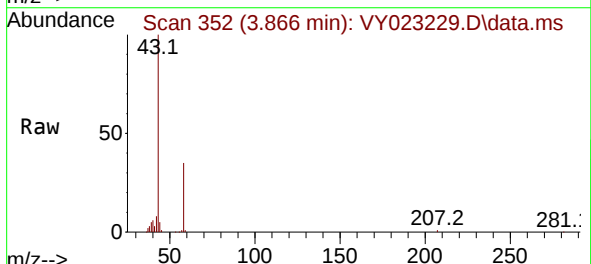
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

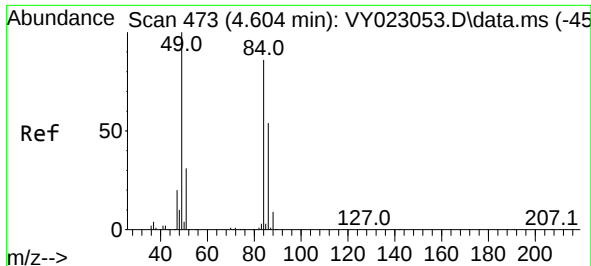
Tgt Ion: 56 Resp: 570
Ion Ratio Lower Upper
56 100
55 46.1 55.2 82.8#



#16
Acetone
Concen: 75.141 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 43 Resp: 83271
Ion Ratio Lower Upper
43 100
58 35.2 27.1 40.7

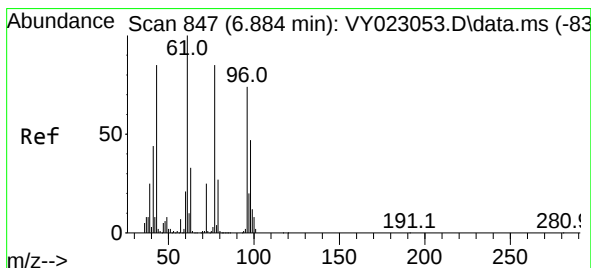
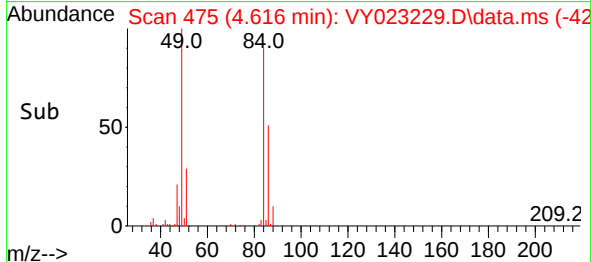
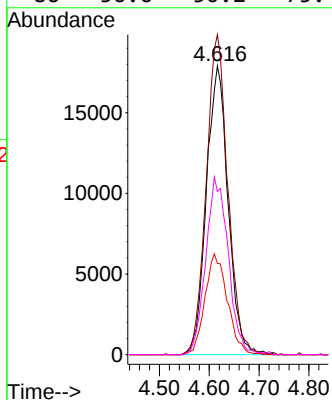
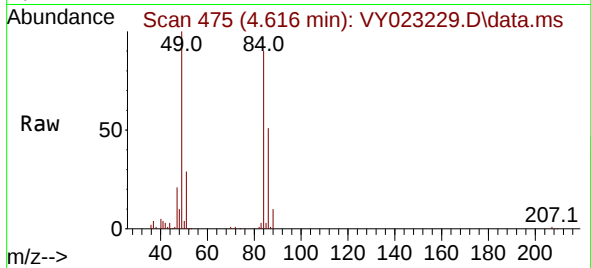




#20
Methylene Chloride
Concen: 7.071 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

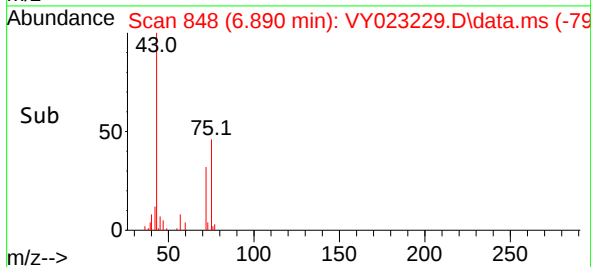
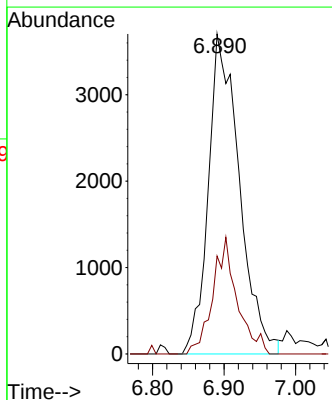
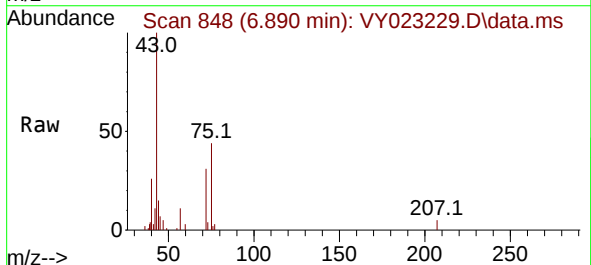
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

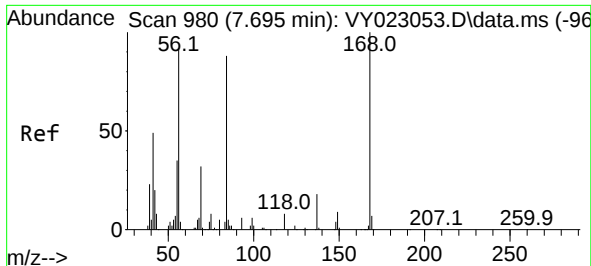
Tgt Ion:	84	Resp:	54154
Ion	Ratio	Lower	Upper
84	100		
49	110.8	93.0	139.6
51	31.7	29.0	43.4
86	56.6	50.2	75.4



#25
2-Butanone
Concen: 7.398 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion:	43	Resp:	11150
Ion	Ratio	Lower	Upper
43	100		
72	30.6	23.5	35.3

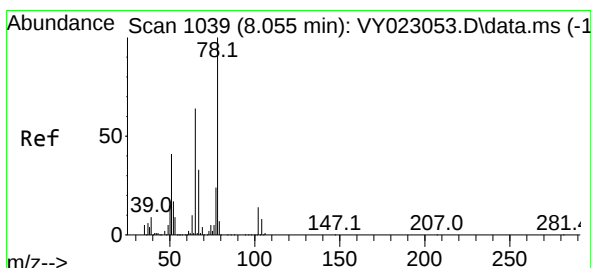
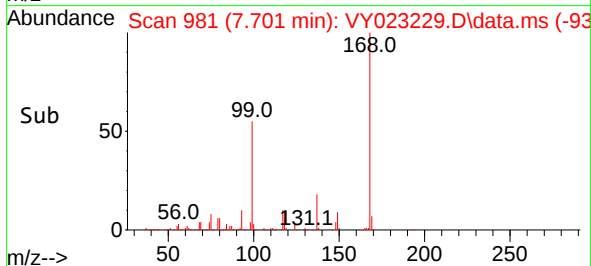
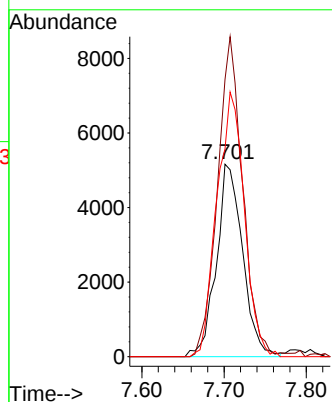
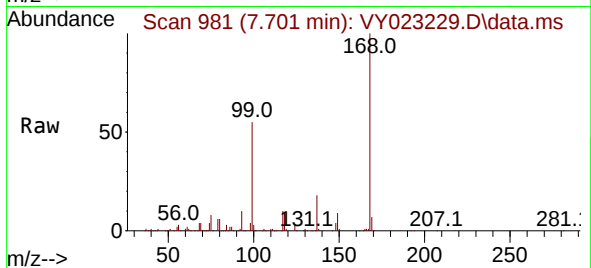




#31
Cyclohexane
Concen: 1.200 ug/l
RT: 7.701 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

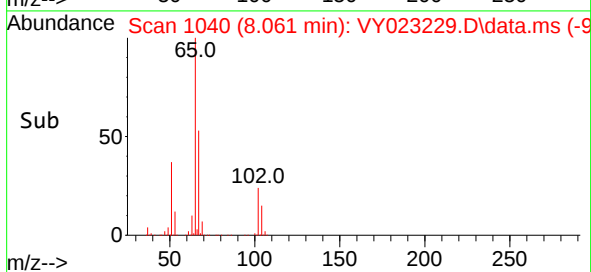
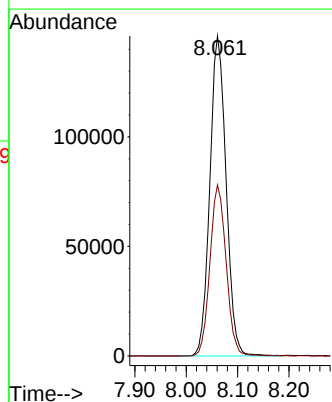
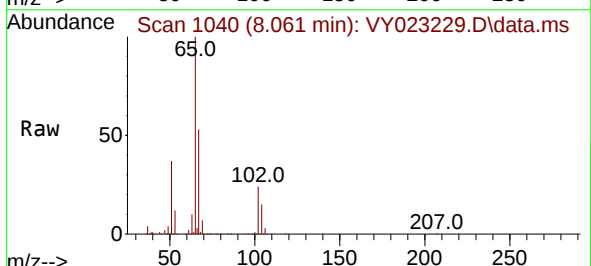
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

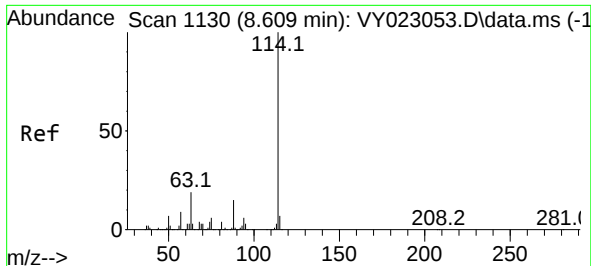
Tgt Ion: 56 Resp: 11436
Ion Ratio Lower Upper
56 100
69 143.9 28.2 42.2#
84 107.8 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 62.771 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 65 Resp: 321088
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.8

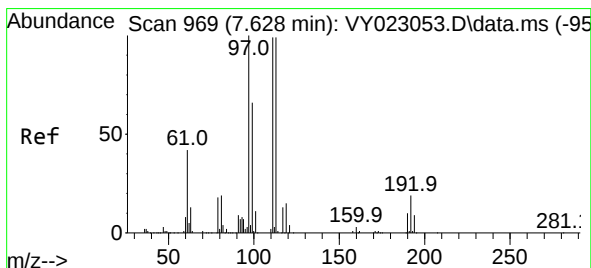
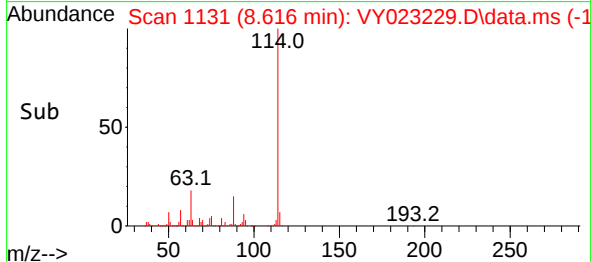
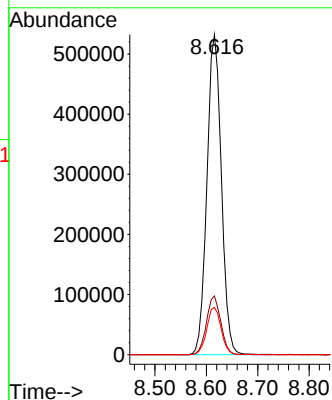
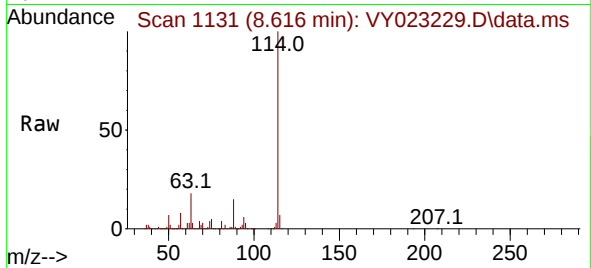




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

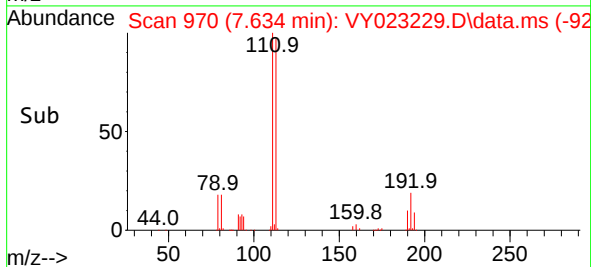
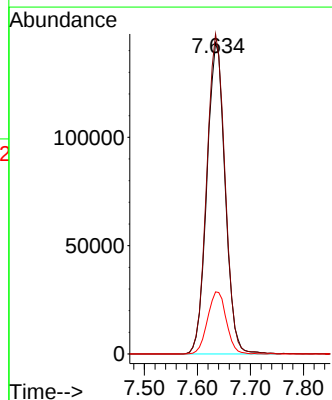
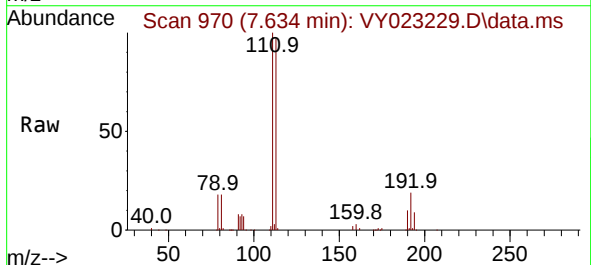
Instrument :
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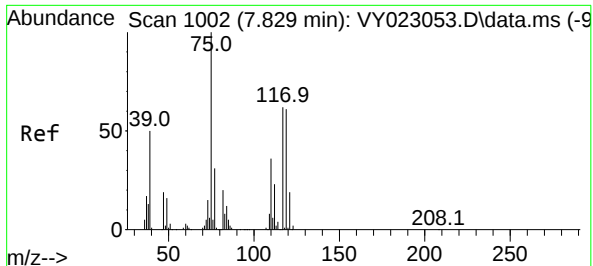
Tgt Ion:114 Resp: 1037130
Ion Ratio Lower Upper
114 100
63 18.4 0.0 38.4
88 14.7 0.0 30.0



#35
Dibromofluoromethane
Concen: 55.424 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion:113 Resp: 343955
Ion Ratio Lower Upper
113 100
111 102.9 81.1 121.7
192 20.5 16.2 24.4

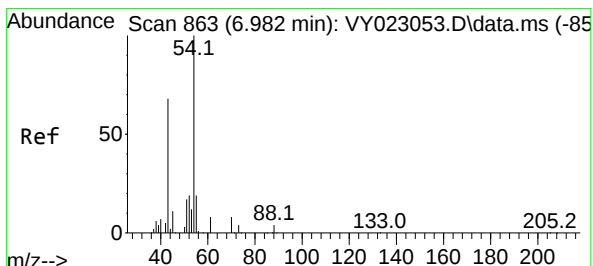
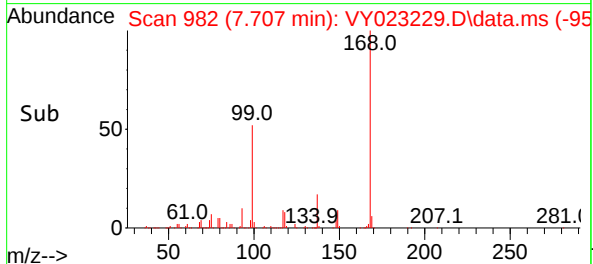
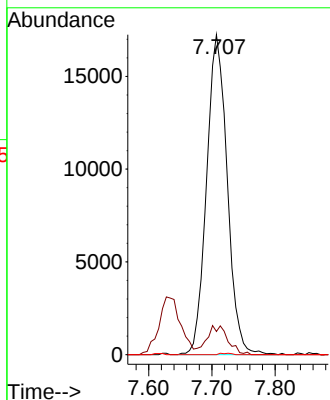
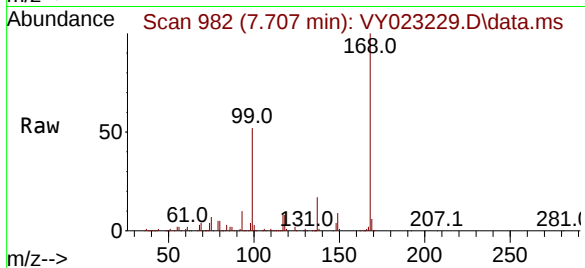




#36
1,1-Dichloropropene
Concen: 4.241 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

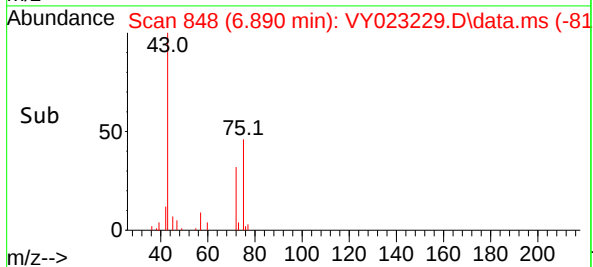
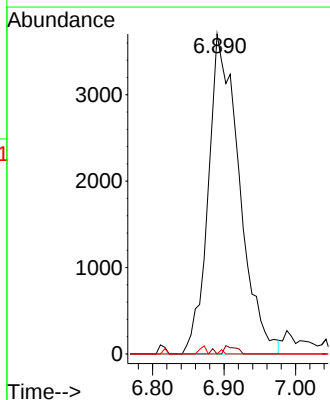
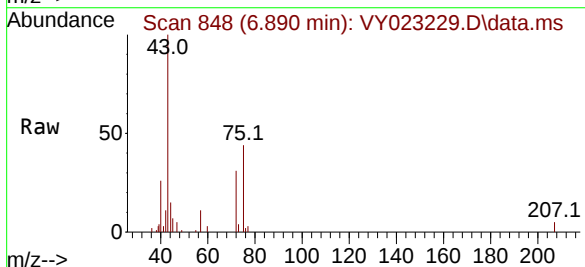
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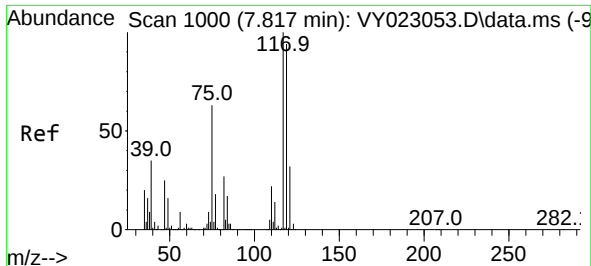
Tgt Ion: 75 Resp: 39110
Ion Ratio Lower Upper
75 100
110 9.1 18.1 54.4#
77 0.3 24.6 37.0#



#37
Ethyl Acetate
Concen: 2.878 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.091 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 43 Resp: 11150
Ion Ratio Lower Upper
43 100
61 1.0 11.9 17.9#
70 0.2 8.8 13.2#

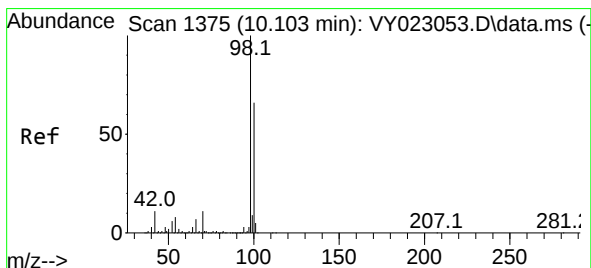
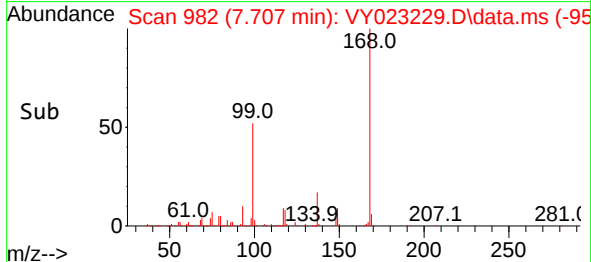
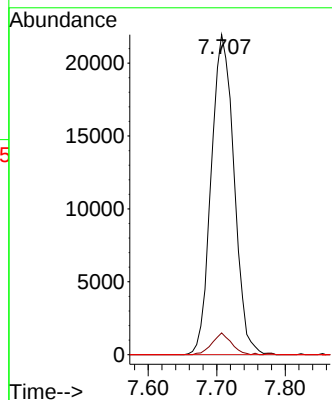
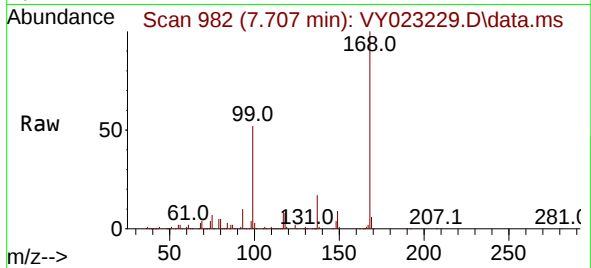




#38
Carbon Tetrachloride
Concen: 5.069 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

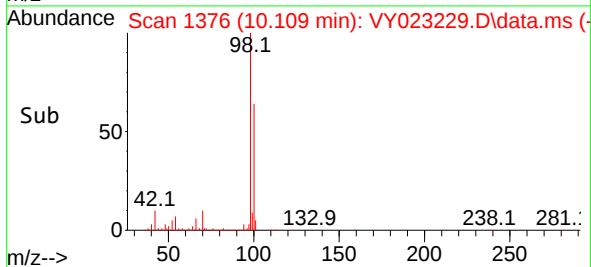
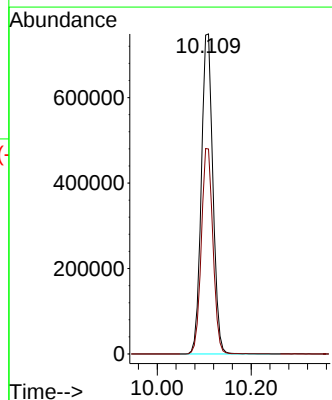
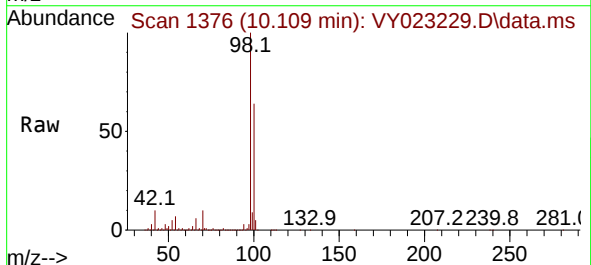
Instrument :
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ClientSampleId :
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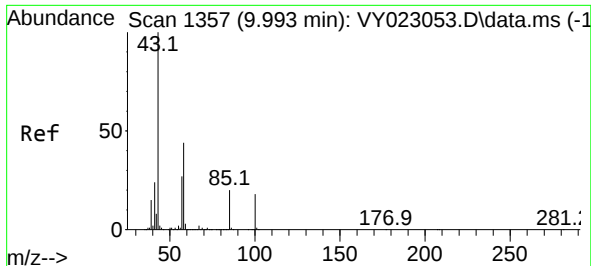
Tgt Ion:117 Resp: 50777
Ion Ratio Lower Upper
117 100
119 6.8 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 52.817 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 98 Resp: 1280473
Ion Ratio Lower Upper
98 100
100 64.5 52.3 78.5

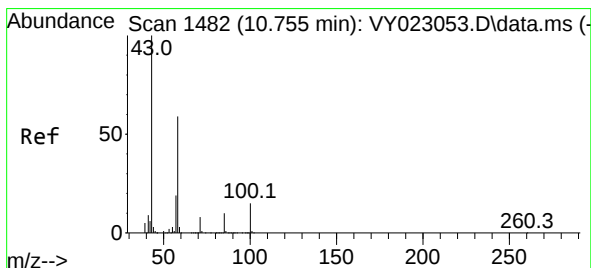
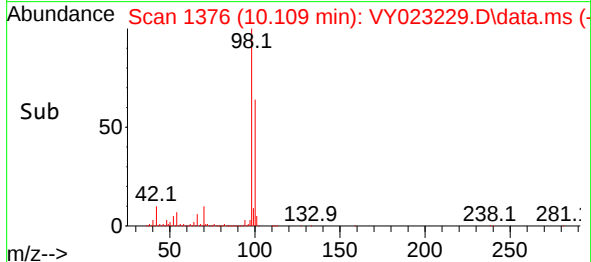
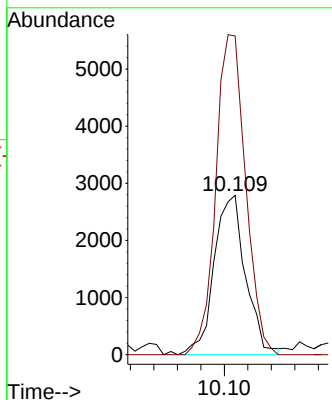
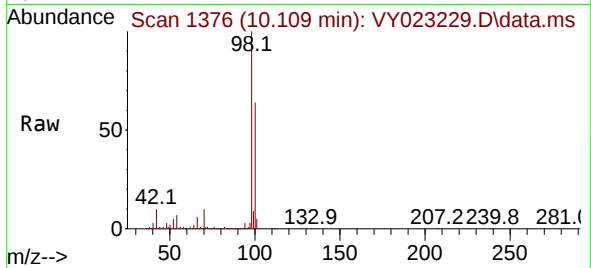




#51
4-Methyl-2-Pentanone
Concen: 1.287 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.116 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

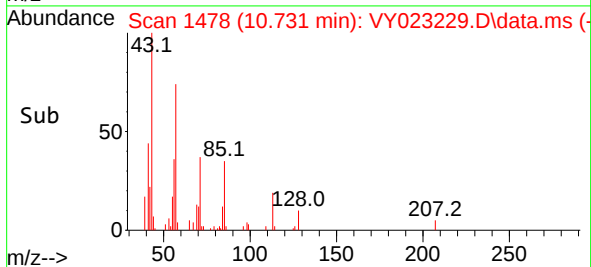
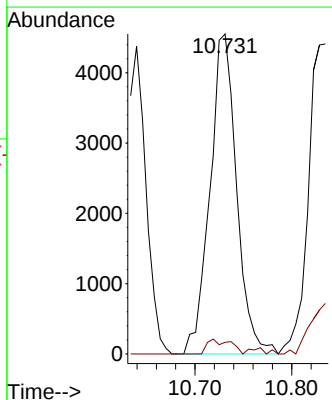
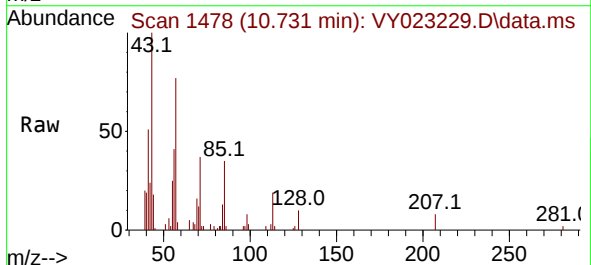
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

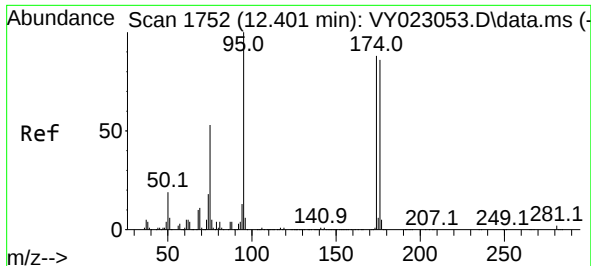
Tgt Ion: 43 Resp: 5199
Ion Ratio Lower Upper
43 100
58 190.2 33.5 50.3#



#59
2-Hexanone
Concen: 3.172 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 43 Resp: 8723
Ion Ratio Lower Upper
43 100
58 4.0 29.5 88.5#

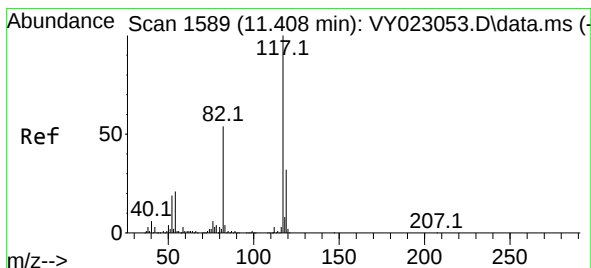
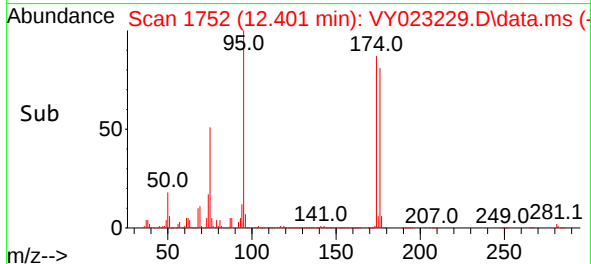
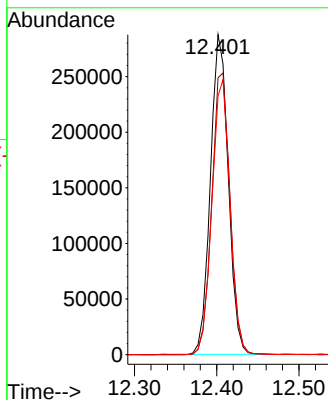
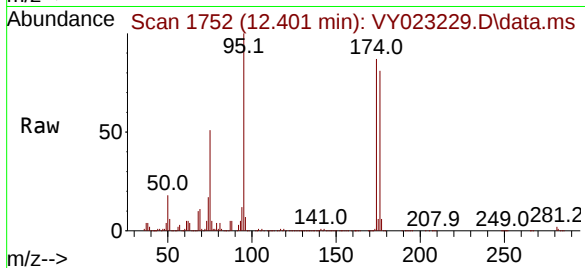




#62
4-Bromofluorobenzene
Concen: 55.668 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

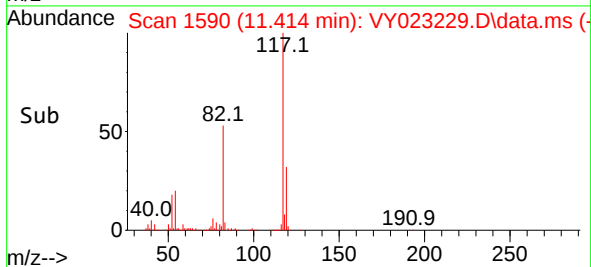
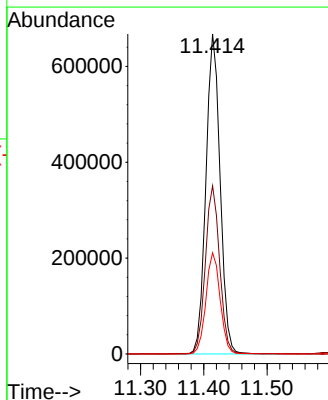
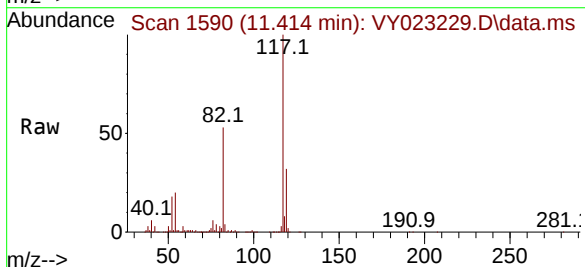
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

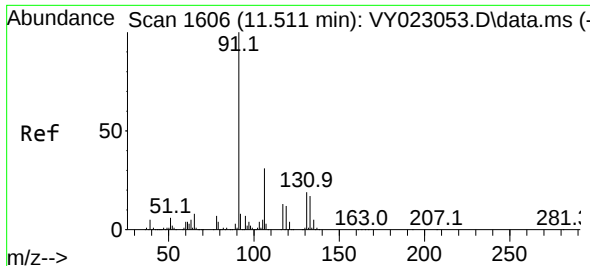
Tgt Ion: 95 Resp: 434029
Ion Ratio Lower Upper
95 100
174 90.1 0.0 171.6
176 87.3 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 117 Resp: 1043264
Ion Ratio Lower Upper
117 100
82 52.5 43.4 65.0
119 31.6 25.6 38.4

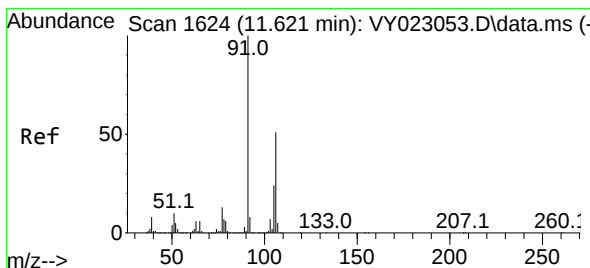
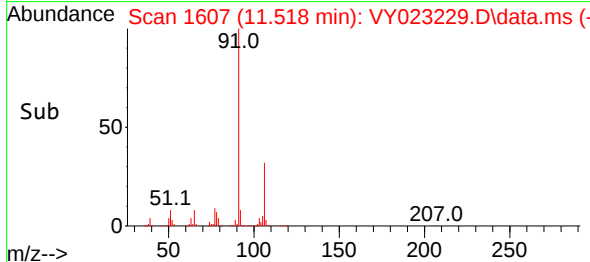
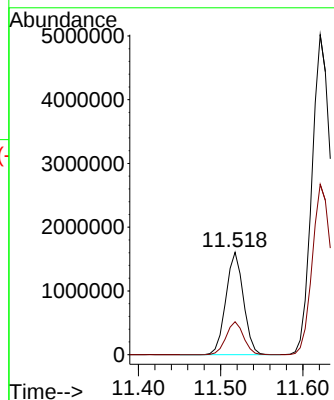
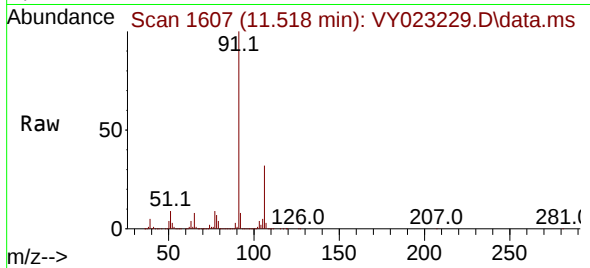




#67
Ethyl Benzene
Concen: 61.677 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

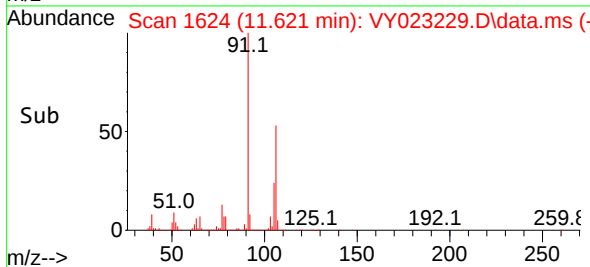
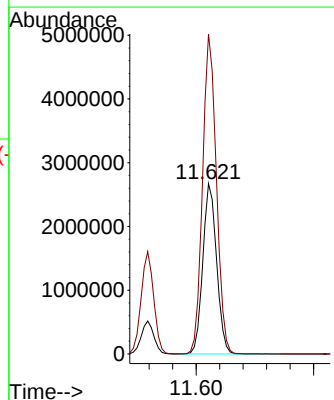
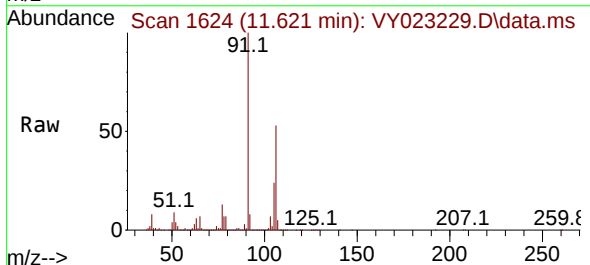
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

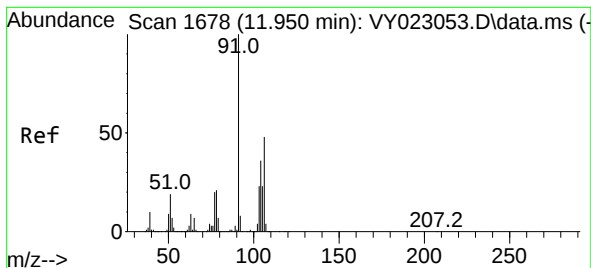
Tgt Ion: 91 Resp: 2388519
Ion Ratio Lower Upper
91 100
106 32.3 25.0 37.4



#68
m/p-Xylenes
Concen: 287.460 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion:106 Resp: 4347804
Ion Ratio Lower Upper
106 100
91 188.3 158.6 238.0





#69

o-Xylene

Concen: 64.126 ug/l

RT: 11.950 min Scan# 1678

Delta R.T. 0.000 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

Instrument :

MSVOA_Y

ClientSampleId :

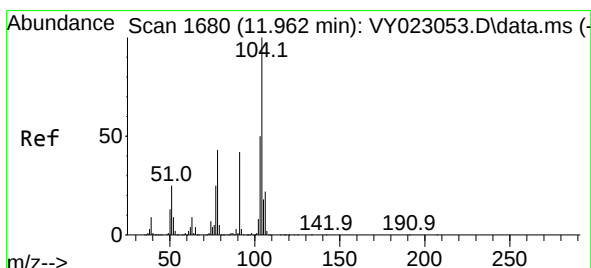
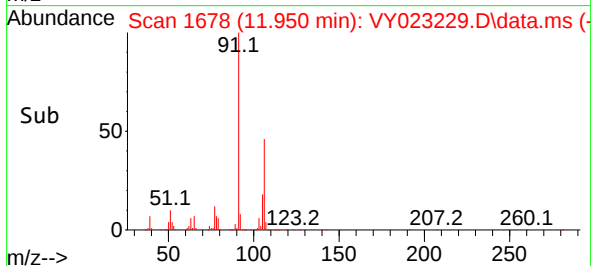
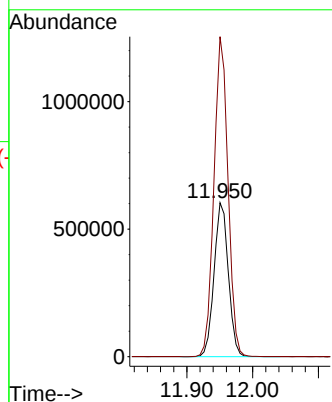
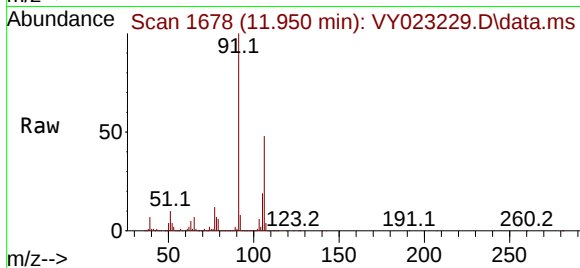
RBBX4R

Tgt Ion:106 Resp: 908406

Ion Ratio Lower Upper

106 100

91 205.5 103.2 309.4



#70

Styrene

Concen: 2.000 ug/l

RT: 11.950 min Scan# 1678

Delta R.T. -0.012 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

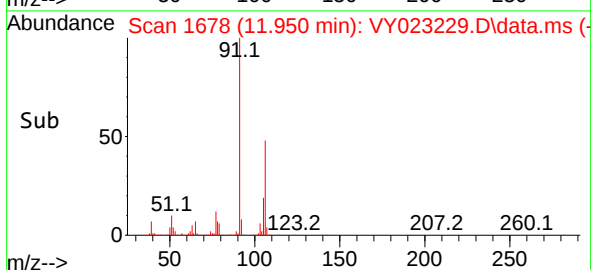
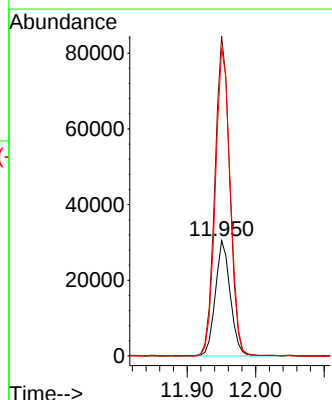
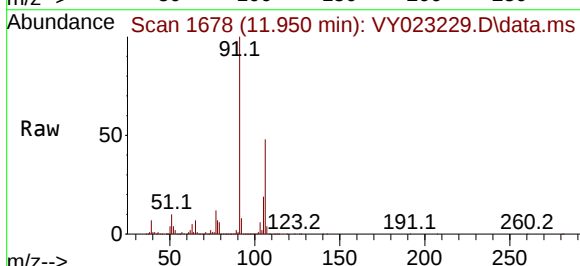
Tgt Ion:104 Resp: 46328

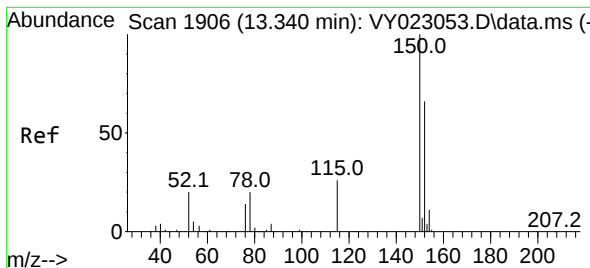
Ion Ratio Lower Upper

104 100

78 274.2 38.5 57.7#

103 265.9 43.7 65.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

Instrument :

MSVOA_Y

ClientSampleId :

RBBX4R

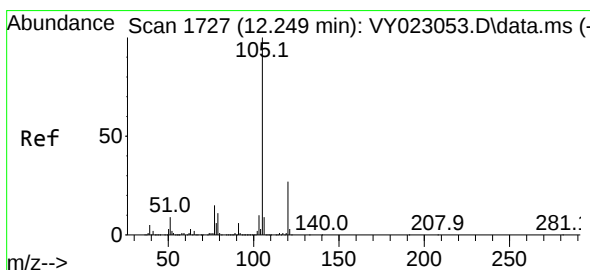
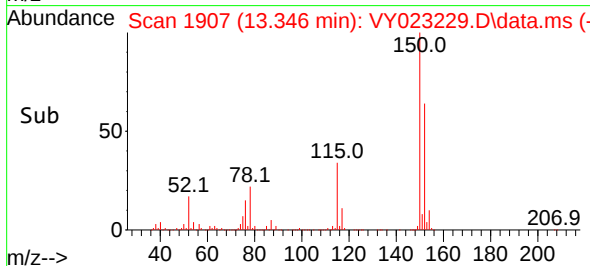
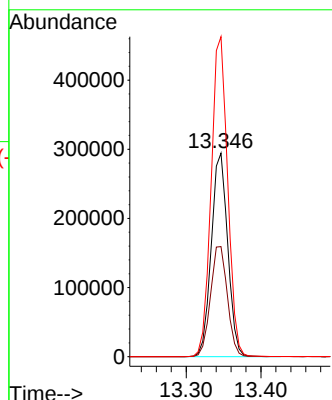
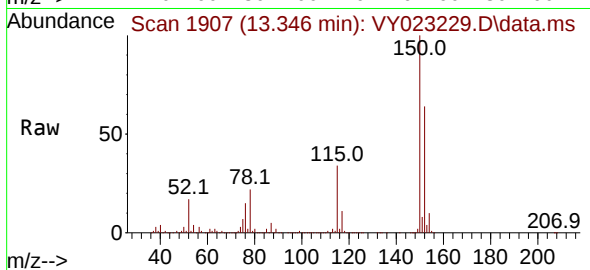
Tgt Ion:152 Resp: 449321

Ion Ratio Lower Upper

152 100

115 55.8 28.2 84.6

150 157.9 0.0 348.0



#73

Isopropylbenzene

Concen: 2.689 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.006 min

Lab File: VY023229.D

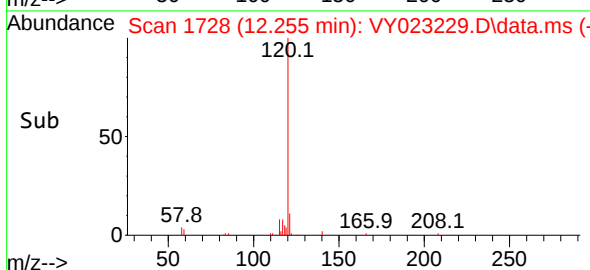
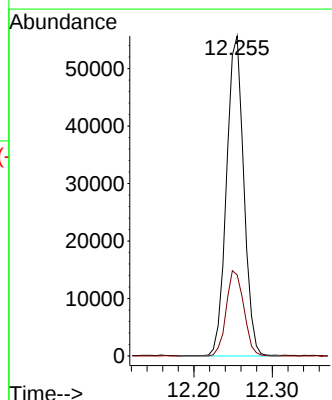
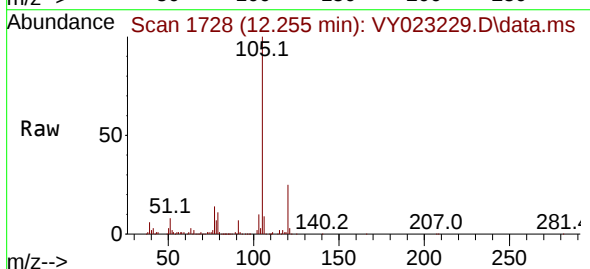
Acq: 28 Aug 2025 16:15

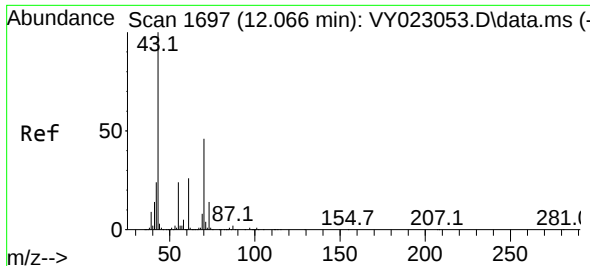
Tgt Ion:105 Resp: 85272

Ion Ratio Lower Upper

105 100

120 27.1 13.4 40.2

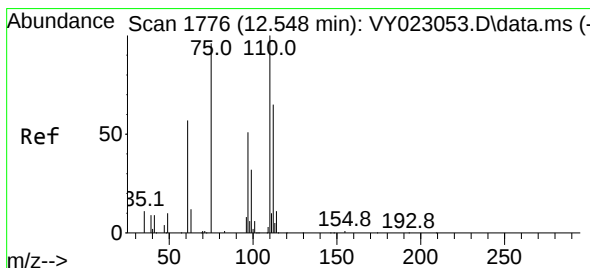
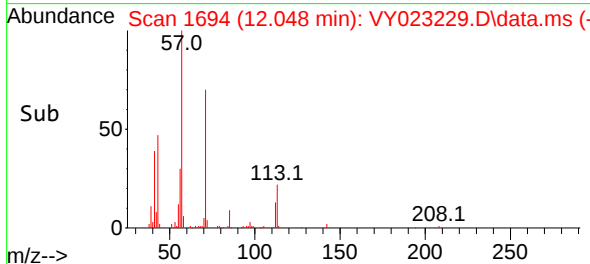
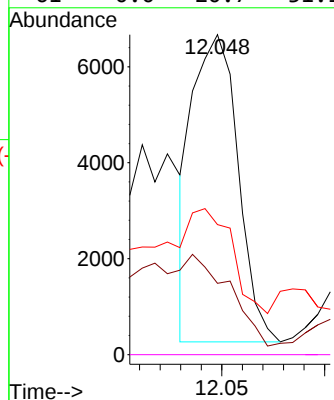
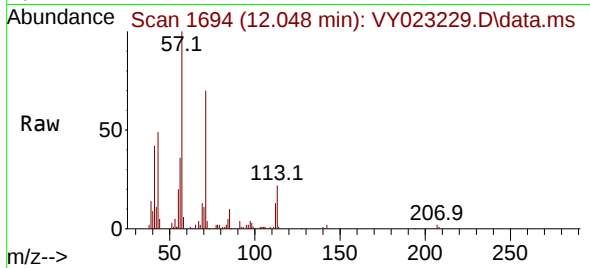




#74
N-amy1 acetate
Concen: 1.462 ug/l
RT: 12.048 min Scan# 1752
Delta R.T. -0.018 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

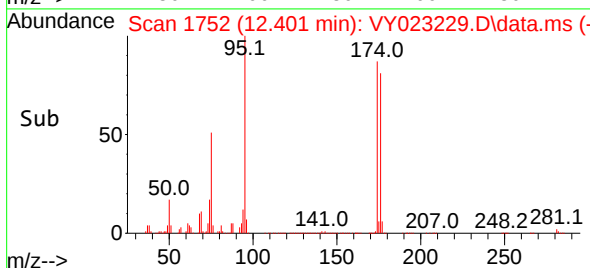
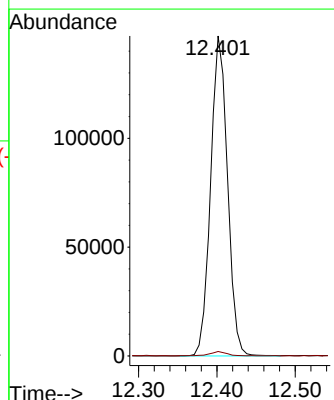
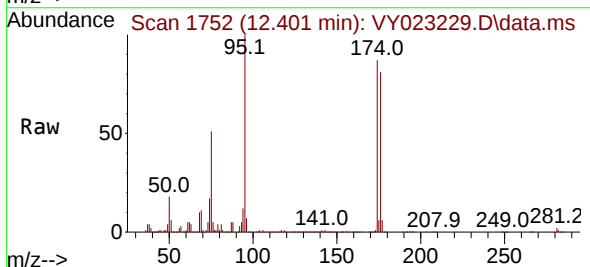
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

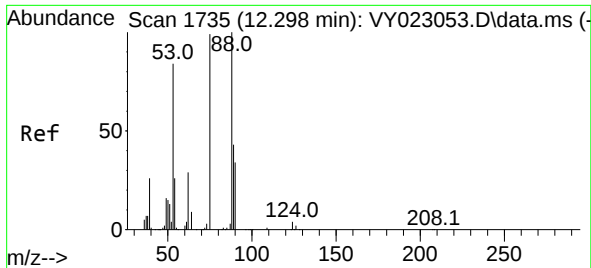
Tgt Ion: 43 Resp: 9831
Ion Ratio Lower Upper
43 100
70 0.0 37.5 56.3#
55 31.9 20.7 31.1#
61 0.0 20.7 31.1#



#76
1,2,3-Trichloropropane
Concen: 50.677 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

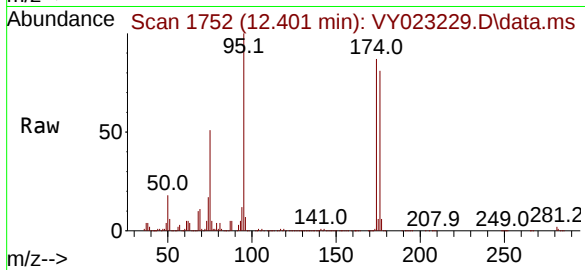
Tgt Ion: 75 Resp: 219759
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 122.674 ug/l
 RT: 12.401 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY023229.D
 Acq: 28 Aug 2025 16:15

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBBX4R



Tgt Ion: 75 Resp: 219759
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.8 106.2#
 89 0.0 38.1 57.1#

