

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121525\
 Data File : VY023974.D
 Acq On : 15 Dec 2025 14:13
 Operator : SY/MD
 Sample : Q3862-02RE
 Misc : 6.51g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP02-MH09-VOCRE

Quant Time: Dec 16 02:15:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 11 03:57:51 2025
 Response via : Initial Calibration

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

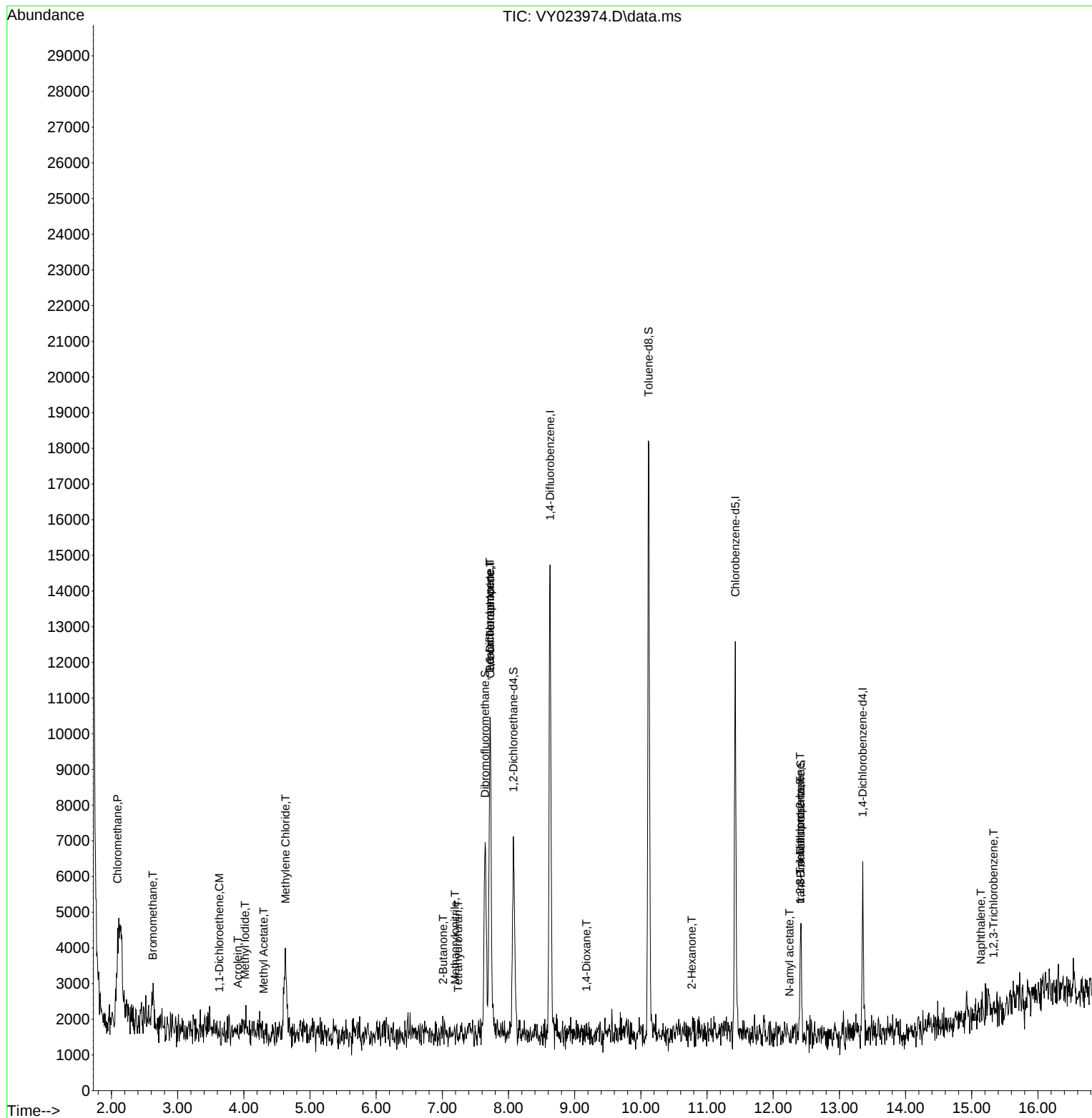
Internal Standards						
1) Pentafluorobenzene	7.720	168	8280	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.628	114	12442	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	6335	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	1102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	4719	64.461	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.920%	
35) Dibromofluoromethane	7.646	113	4272	52.526	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.060%	
50) Toluene-d8	10.115	98	12004	39.642	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 79.280%	
62) 4-Bromofluorobenzene	12.414	95	1126	11.135	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 22.260%#	
Target Compounds						Qvalue
3) Chloromethane	2.092	50	95	1.288	ug/l #	42
5) Bromomethane	2.623	94	631	8.131	ug/l #	56
10) Methyl Iodide	4.019	142	204	1.990	ug/l #	57
12) 1,1-Dichloroethene	3.629	96	90	1.198	ug/l #	1
13) Acrolein	3.909	56	18	2.655	ug/l #	49
16) Acetone	3.891	43	27	Below Cal	#	42
18) Methyl Acetate	4.299	43	52	1.570	ug/l #	47
20) Methylene Chloride	4.629	84	1856	21.550	ug/l #	70
25) 2-Butanone	7.012	43	24	1.061	ug/l #	43
29) Tetrahydrofuran	7.238	42	22	1.907	ug/l #	28
36) 1,1-Dichloropropene	7.720	75	734	6.629	ug/l #	42
38) Carbon Tetrachloride	7.726	117	849	6.326	ug/l #	12
41) Methacrylonitrile	7.189	41	56	2.258	ug/l #	17
49) 1,4-Dioxane	9.177	88	36	72.067	ug/l #	23
59) 2-Hexanone	10.768	43	52	1.523	ug/l #	1
74) N-amyl acetate	12.243	43	22	1.540	ug/l #	40
76) 1,2,3-Trichloropropane	12.408	75	587	62.971	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	587	143.337	ug/l #	12
95) Naphthalene	15.139	128	86	2.815	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.328	180	22	1.308	ug/l #	58

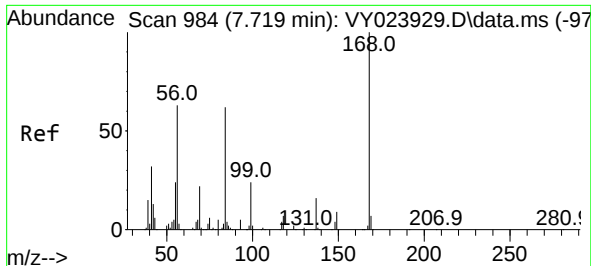
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 11 03:57:51 2025
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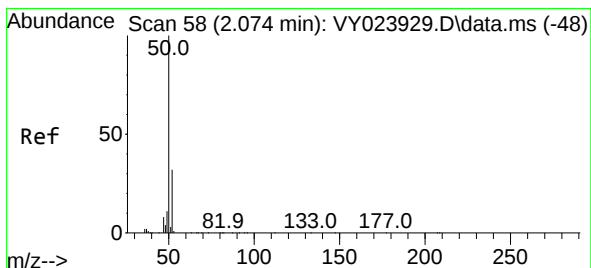
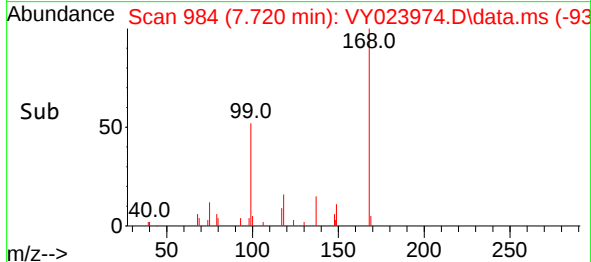
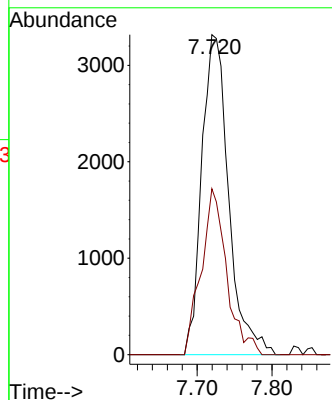
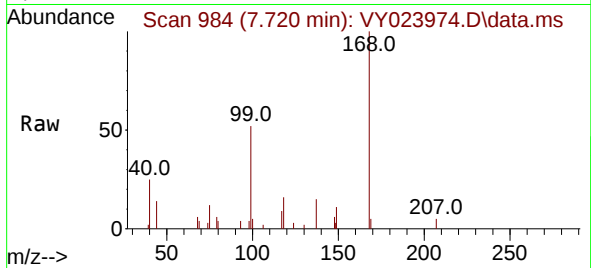




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.001 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

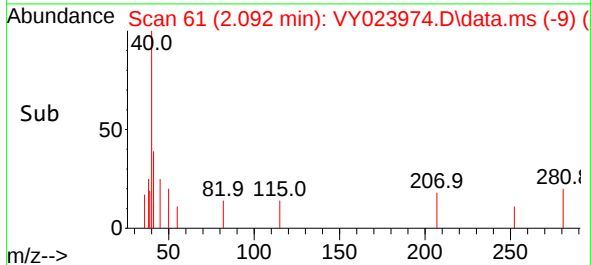
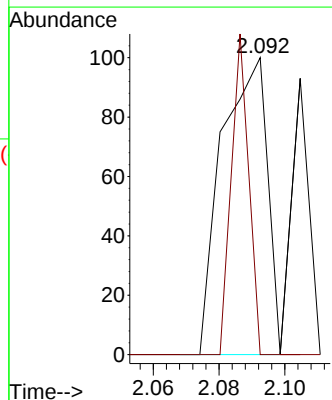
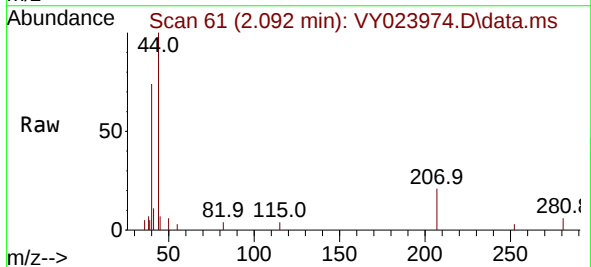
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOCRE

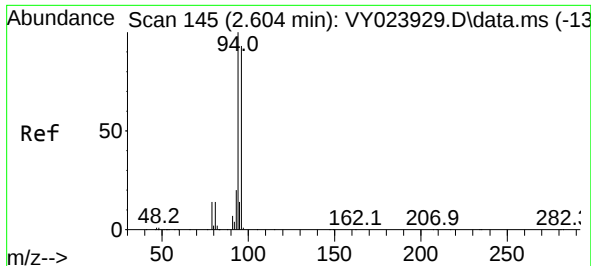
Tgt Ion:168 Resp: 8280
Ion Ratio Lower Upper
168 100
99 51.9 38.9 58.3



#3
Chloromethane
Concen: 1.288 ug/l
RT: 2.092 min Scan# 61
Delta R.T. 0.018 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

Tgt Ion: 50 Resp: 95
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

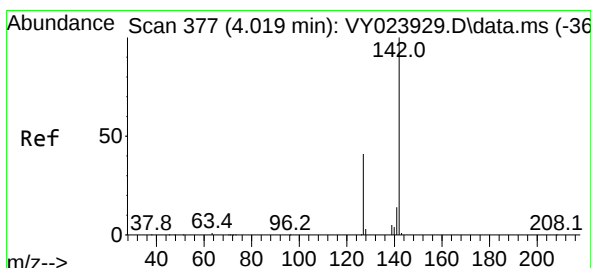
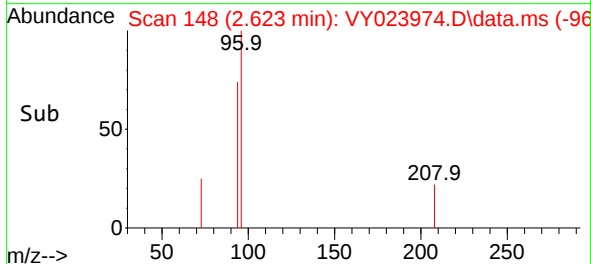
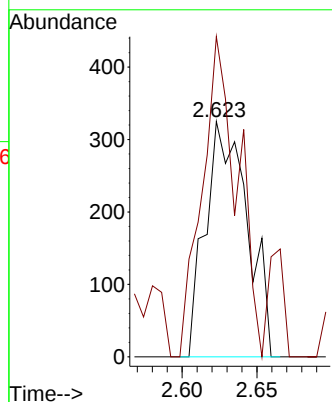
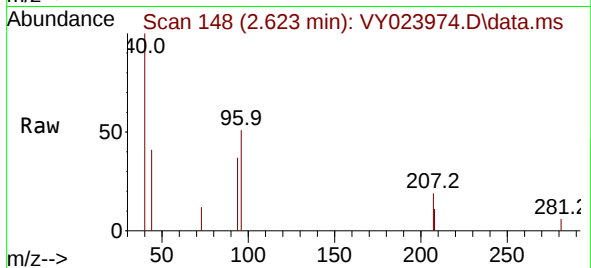




#5
Bromomethane
Concen: 8.131 ug/l
RT: 2.623 min Scan# 145
Delta R.T. 0.018 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

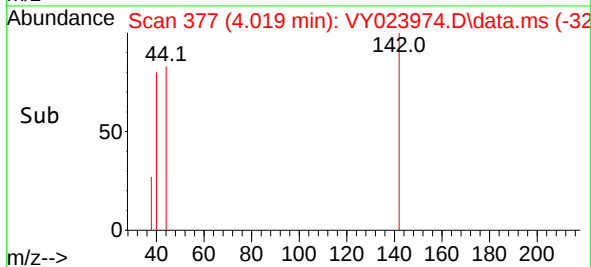
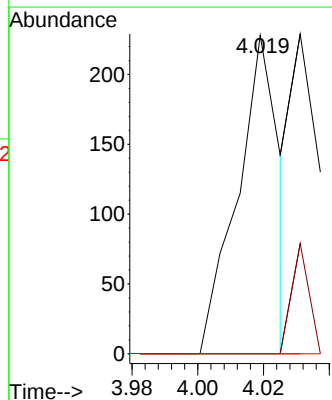
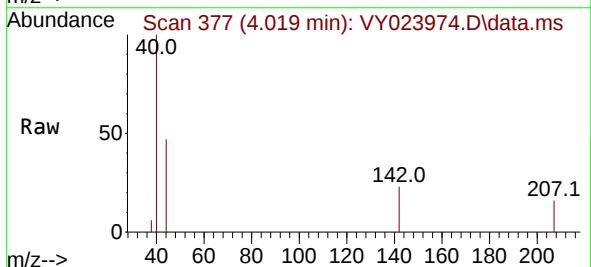
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOCRE

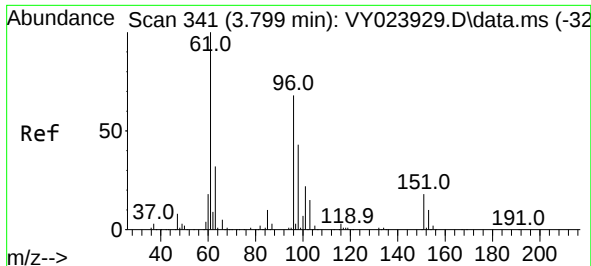
Tgt Ion: 94 Resp: 631
Ion Ratio Lower Upper
94 100
96 136.0 74.8 112.2#



#10
Methyl Iodide
Concen: 1.990 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

Tgt Ion: 142 Resp: 204
Ion Ratio Lower Upper
142 100
127 14.2 34.5 51.7#
141 0.0 11.5 17.3#





#12

1,1-Dichloroethene

Concen: 1.198 ug/l

RT: 3.629 min Scan# 313

Delta R.T. -0.171 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOCRE

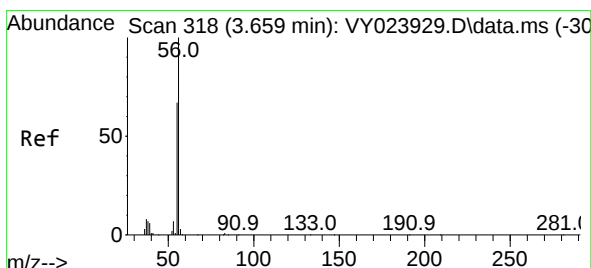
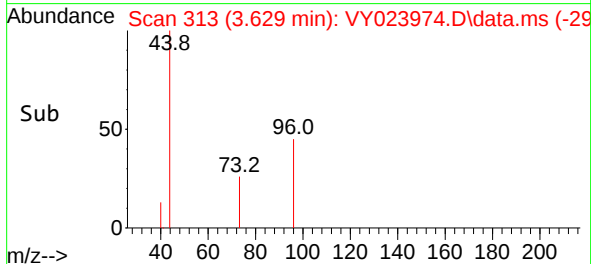
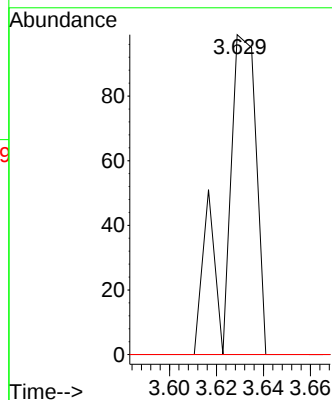
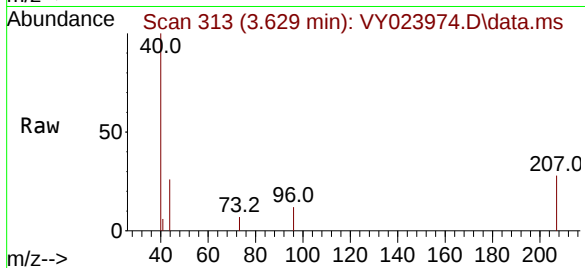
Tgt Ion: 96 Resp: 90

Ion Ratio Lower Upper

96 100

61 0.0 117.0 175.6#

98 0.0 50.5 75.7#



#13

Acrolein

Concen: 2.655 ug/l

RT: 3.909 min Scan# 359

Delta R.T. 0.250 min

Lab File: VY023974.D

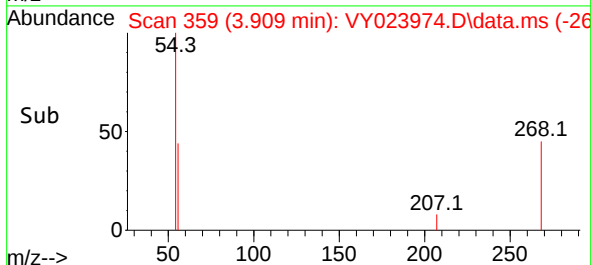
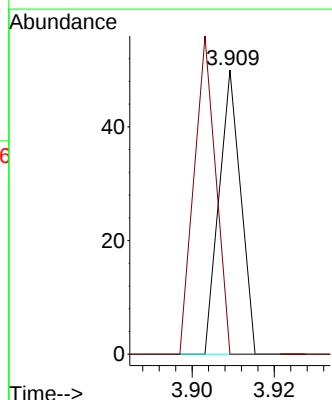
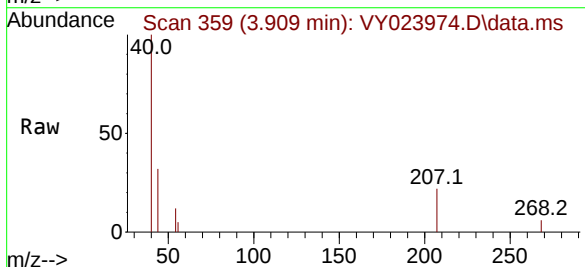
Acq: 15 Dec 2025 14:13

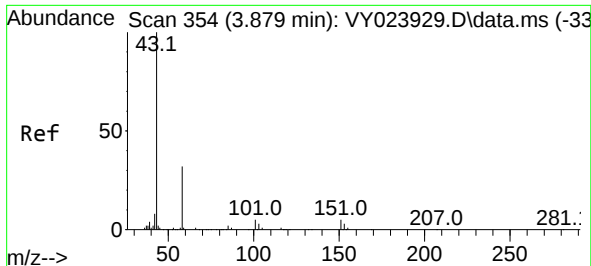
Tgt Ion: 56 Resp: 18

Ion Ratio Lower Upper

56 100

55 111.1 55.7 83.5#

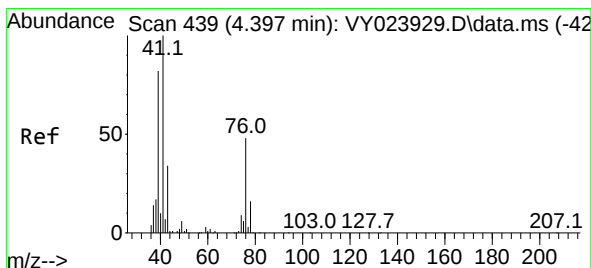
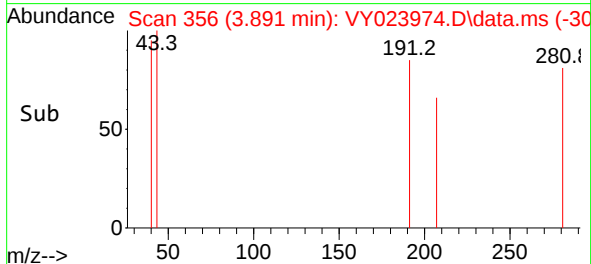
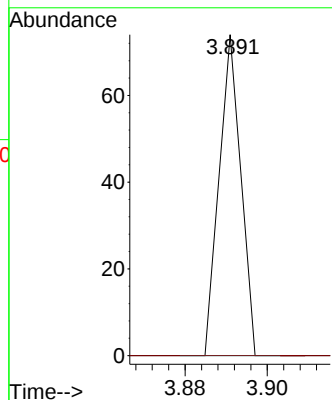
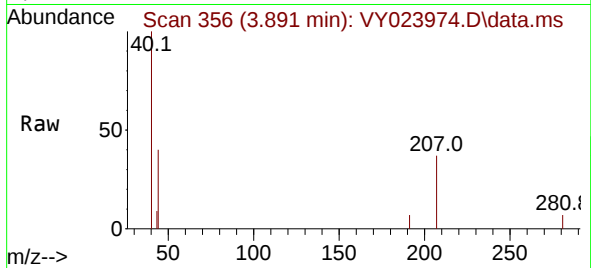




#16
Acetone
Concen: Below Cal
RT: 3.891 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

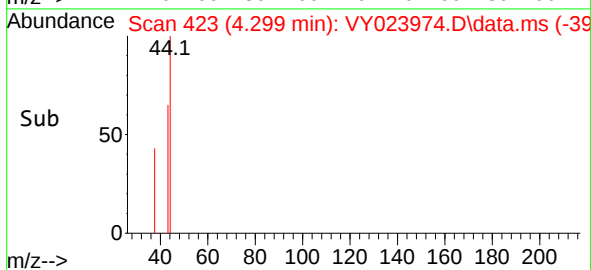
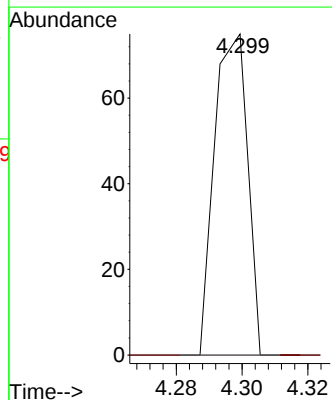
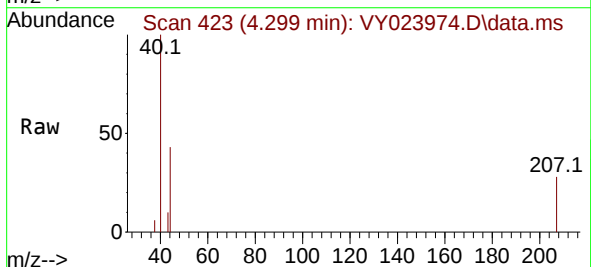
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOCRE

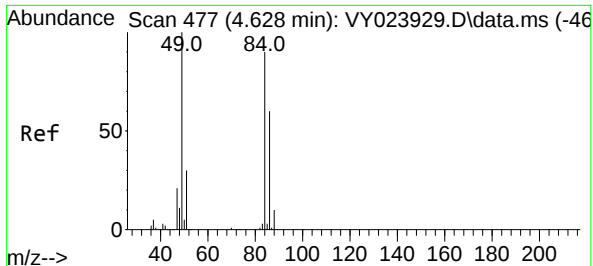
Tgt Ion: 43 Resp: 27
Ion Ratio Lower Upper
43 100
58 0.0 26.4 39.6#



#18
Methyl Acetate
Concen: 1.570 ug/l
RT: 4.299 min Scan# 423
Delta R.T. -0.097 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

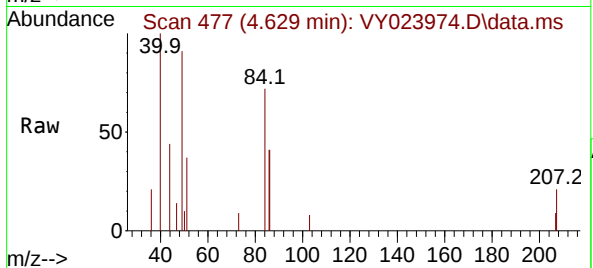
Tgt Ion: 43 Resp: 52
Ion Ratio Lower Upper
43 100
74 0.0 22.6 33.8#



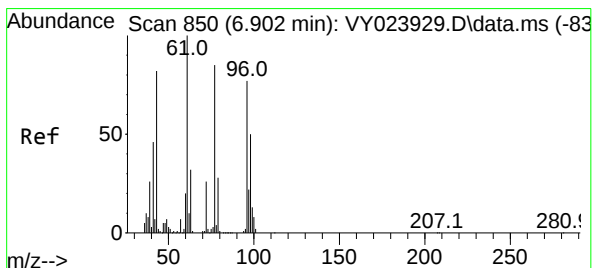
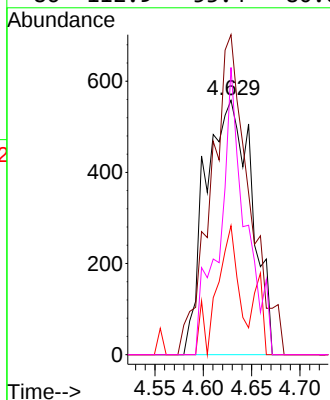
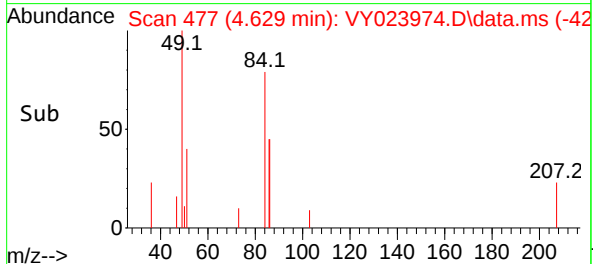


#20
Methylene Chloride
Concen: 21.550 ug/l
RT: 4.629 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

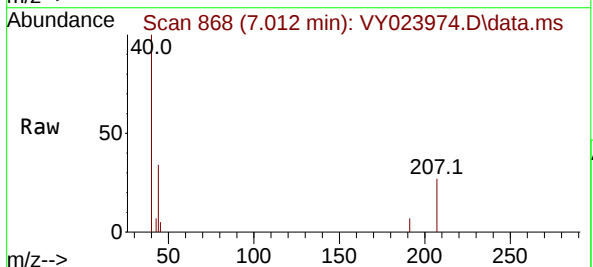
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOCRE



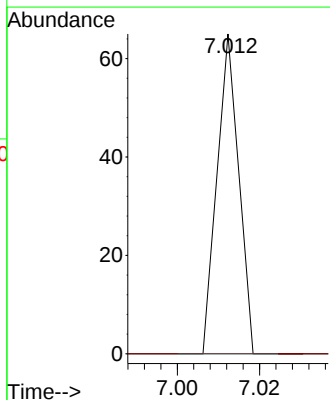
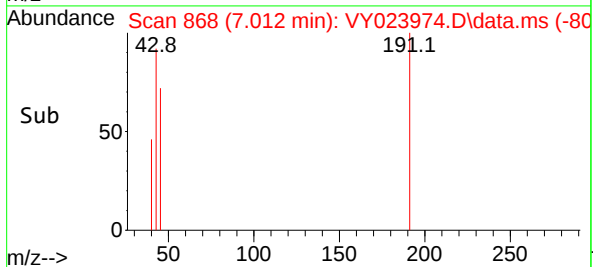
Tgt Ion:	84	Resp:	1856
Ion	Ratio	Lower	Upper
84	100		
49	125.8	89.1	133.7
51	50.7	26.6	39.8#
86	112.9	53.4	80.0#

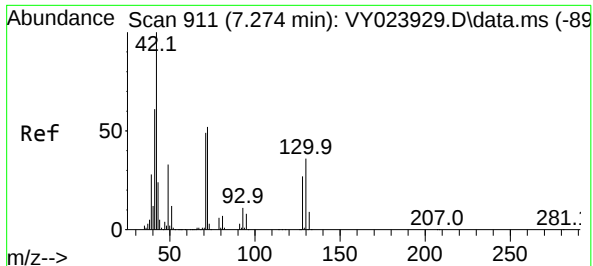


#25
2-Butanone
Concen: 1.061 ug/l
RT: 7.012 min Scan# 868
Delta R.T. 0.110 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13



Tgt Ion:	43	Resp:	24
Ion	Ratio	Lower	Upper
43	100		
72	0.0	25.0	37.6#





#29

Tetrahydrofuran

Concen: 1.907 ug/l

RT: 7.238 min Scan# 905

Delta R.T. -0.036 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

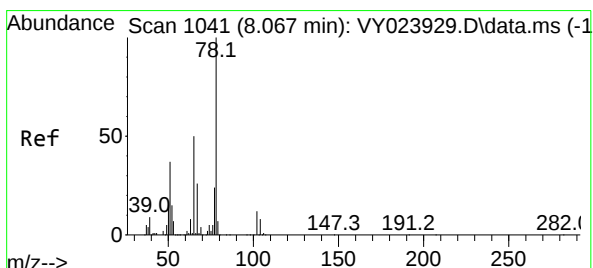
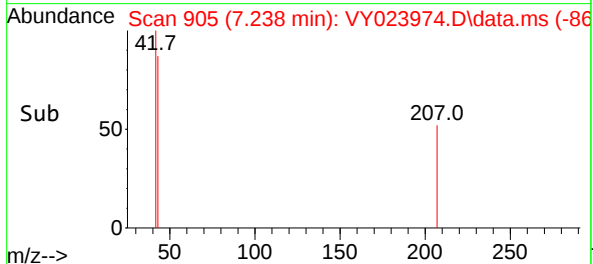
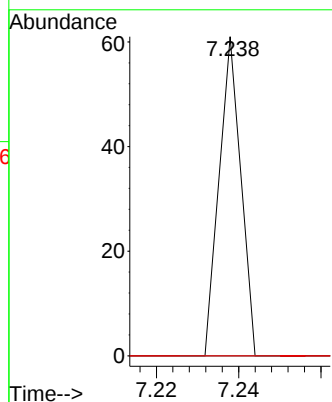
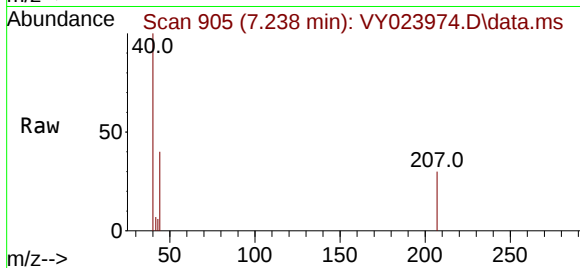
Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOCRE

Tgt Ion: 42	Resp: 22
Ion Ratio	Lower Upper
42 100	
72 0.0	40.0 60.0#
71 0.0	37.7 56.5#



#33

1,2-Dichloroethane-d4

Concen: 64.461 ug/l

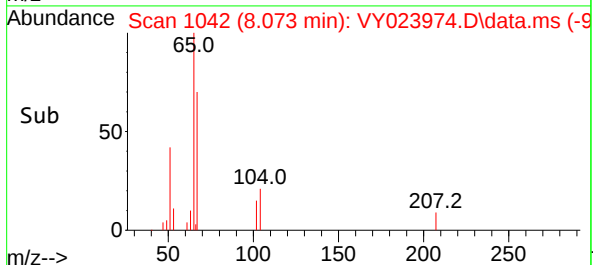
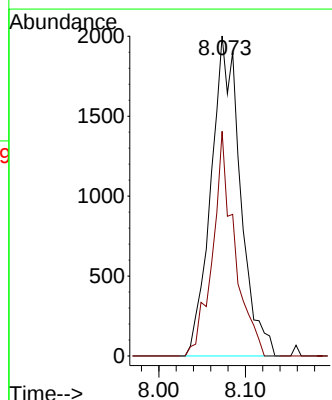
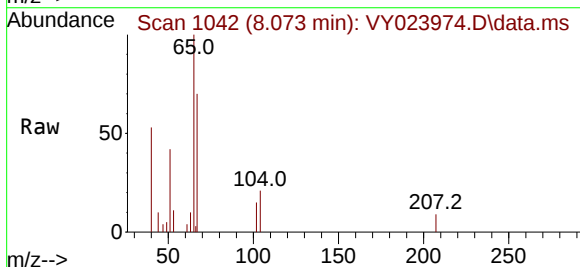
RT: 8.073 min Scan# 1042

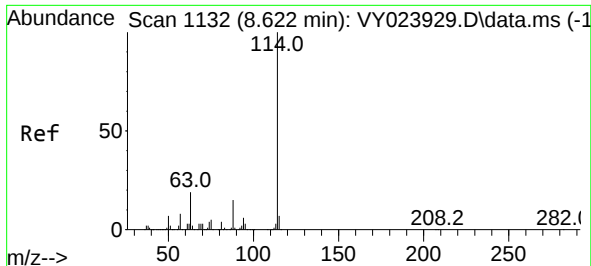
Delta R.T. 0.006 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

Tgt Ion: 65	Resp: 4719
Ion Ratio	Lower Upper
65 100	
67 52.4	0.0 106.2

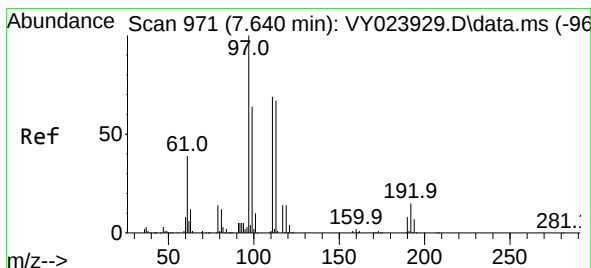
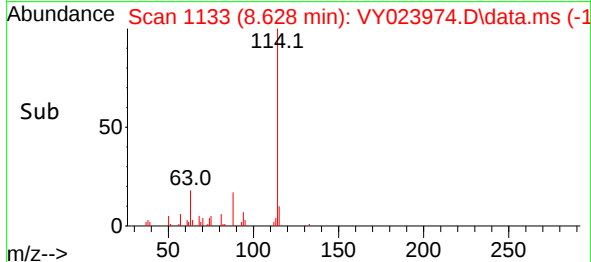
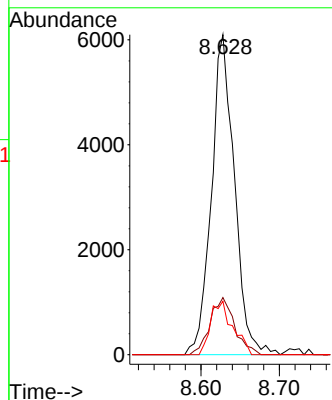
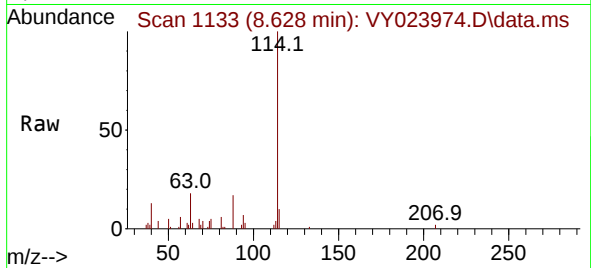




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

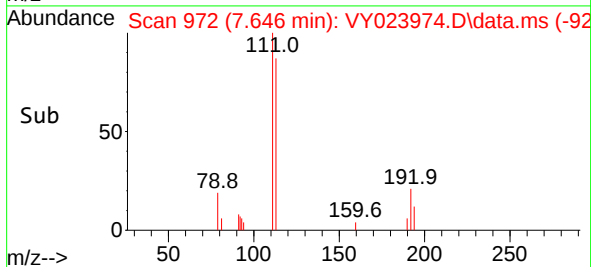
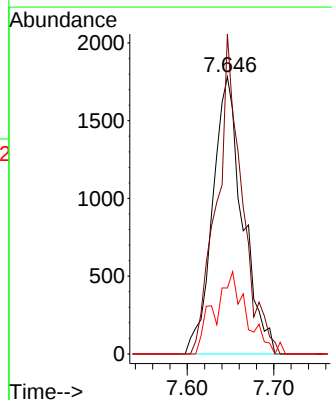
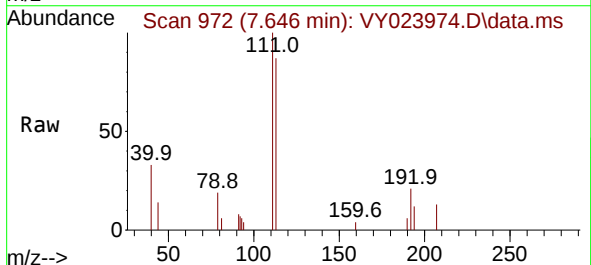
Instrument :
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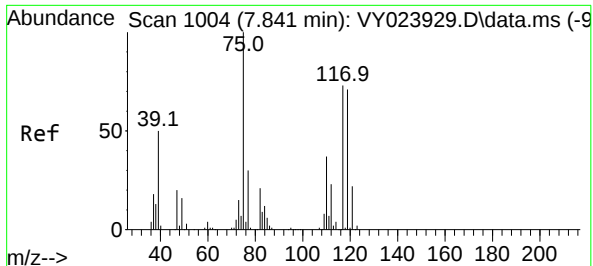
Tgt Ion:114 Resp: 12442
Ion Ratio Lower Upper
114 100
63 17.8 0.0 37.2
88 16.7 0.0 29.4



#35
Dibromofluoromethane
Concen: 52.526 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.006 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

Tgt Ion:113 Resp: 4272
Ion Ratio Lower Upper
113 100
111 97.4 82.4 123.6
192 31.8 17.9 26.9#





#36

1,1-Dichloropropene

Concen: 6.629 ug/l

RT: 7.720 min Scan# 984

Delta R.T. -0.122 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOCRE

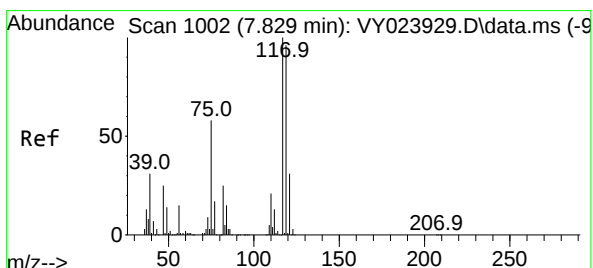
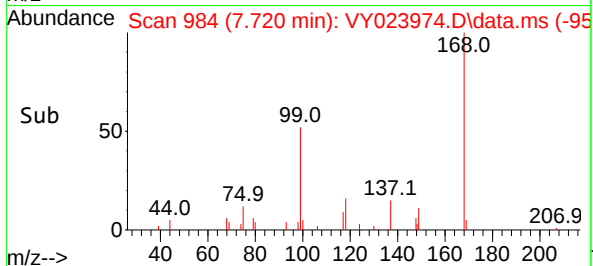
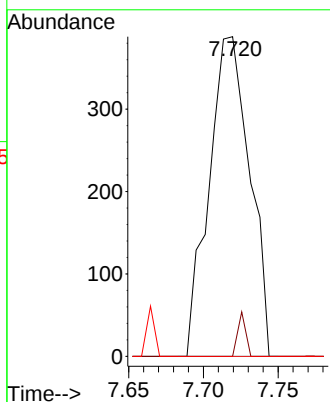
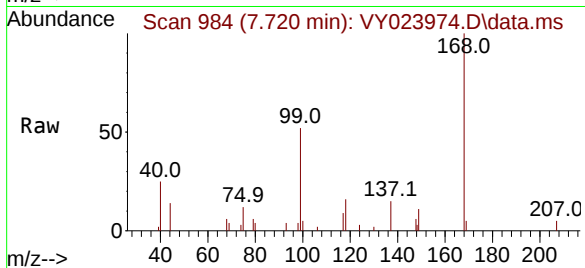
Tgt Ion: 75 Resp: 734

Ion Ratio Lower Upper

75 100

110 2.7 19.2 57.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.326 ug/l

RT: 7.726 min Scan# 985

Delta R.T. -0.104 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

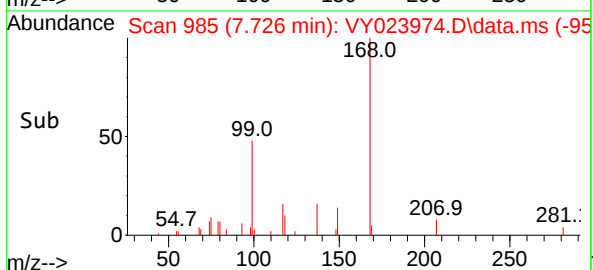
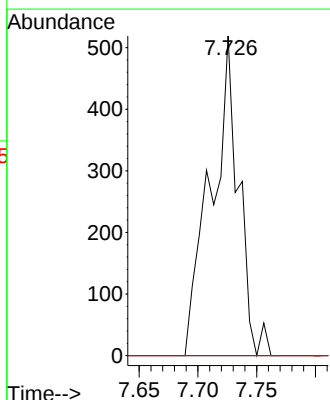
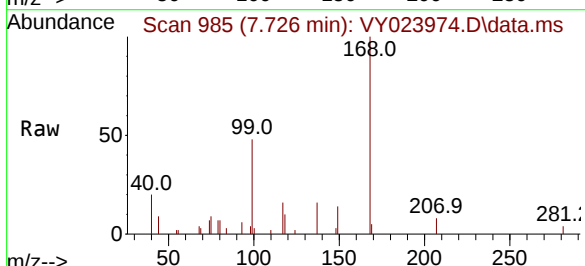
Tgt Ion: 117 Resp: 849

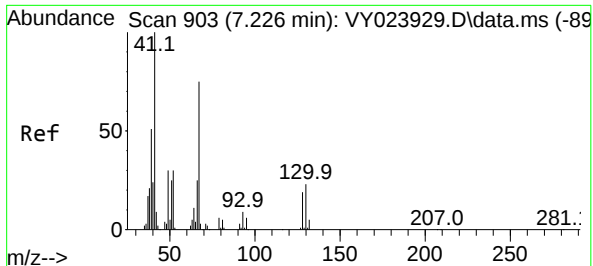
Ion Ratio Lower Upper

117 100

119 0.0 76.6 114.8#

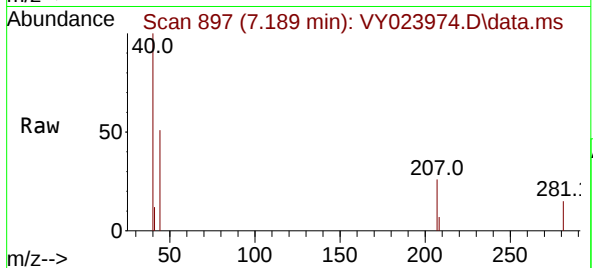
121 0.0 24.8 37.2#



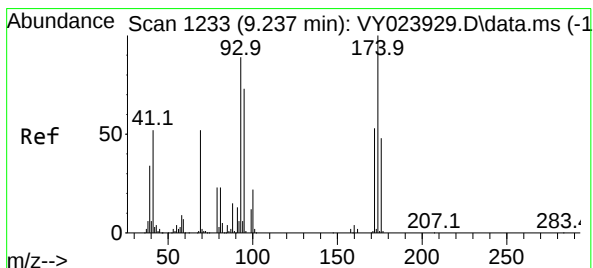
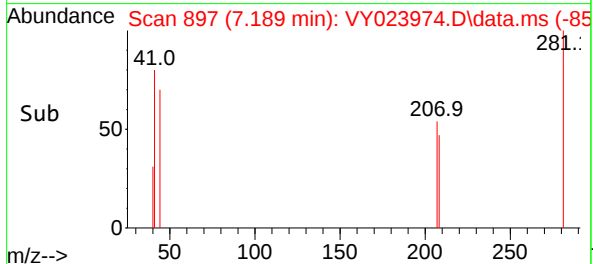
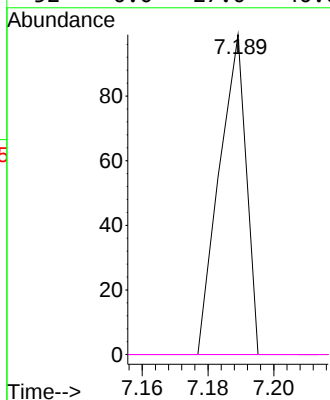


#41
Methacrylonitrile
Concen: 2.258 ug/l
RT: 7.189 min Scan# 89
Delta R.T. -0.036 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOCRE

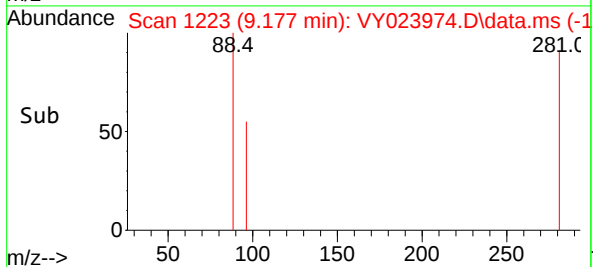
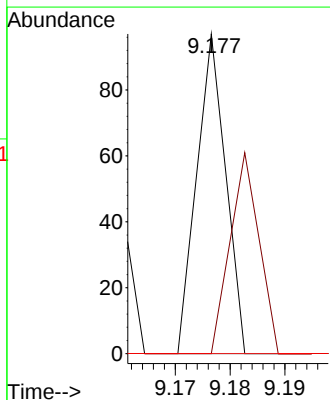
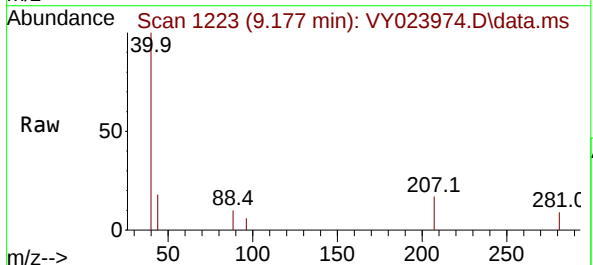


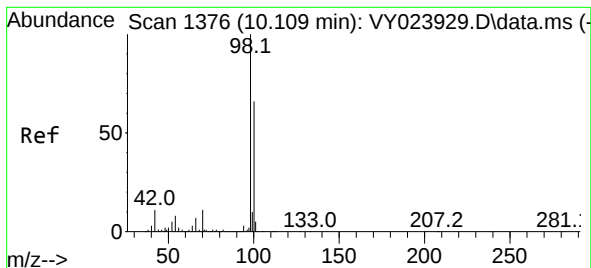
Tgt Ion:	41	Resp:	56
Ion	Ratio	Lower	Upper
41	100		
39	0.0	50.6	75.8#
67	0.0	68.0	102.0#
52	0.0	27.0	40.6#



#49
1,4-Dioxane
Concen: 72.067 ug/l
RT: 9.177 min Scan# 1223
Delta R.T. -0.061 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

Tgt Ion:	88	Resp:	36
Ion	Ratio	Lower	Upper
88	100		
43	61.1	22.3	33.5#
58	0.0	52.3	78.5#





#50

Toluene-d8

Concen: 39.642 ug/l

RT: 10.115 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

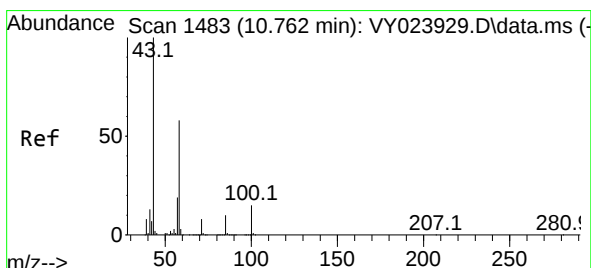
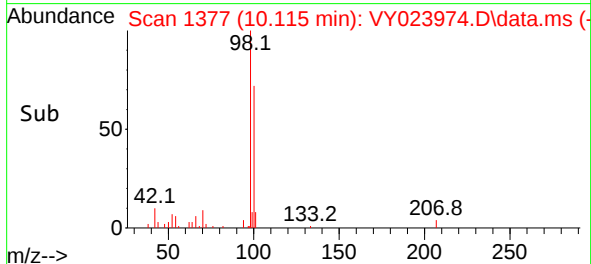
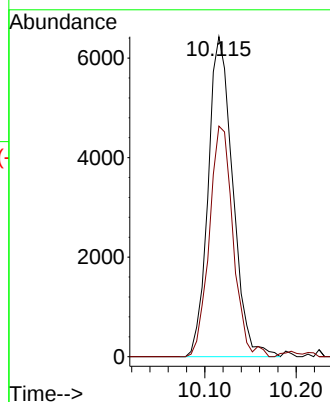
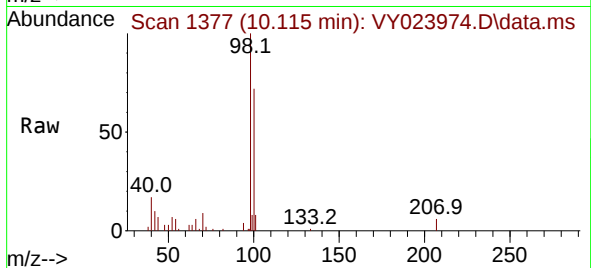
TP02-MH09-VOCRE

Tgt Ion: 98 Resp: 12004

Ion Ratio Lower Upper

98 100

100 69.5 52.8 79.2



#59

2-Hexanone

Concen: 1.523 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VY023974.D

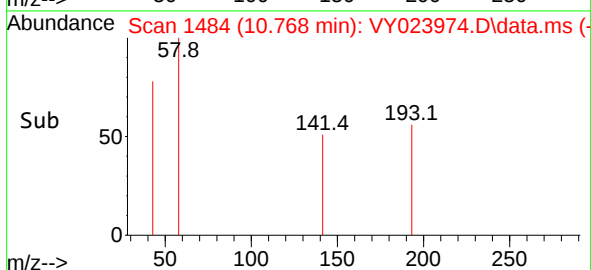
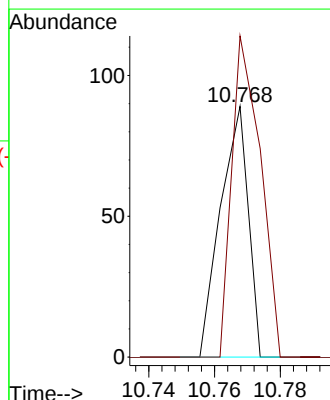
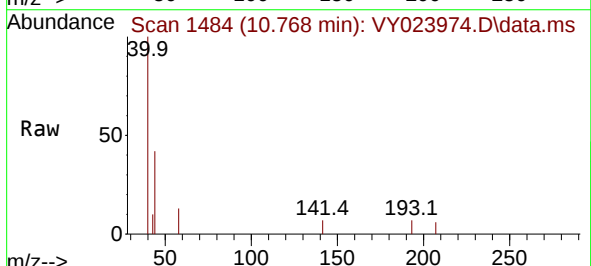
Acq: 15 Dec 2025 14:13

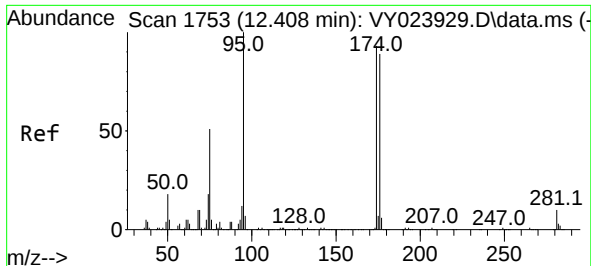
Tgt Ion: 43 Resp: 52

Ion Ratio Lower Upper

43 100

58 132.7 29.0 87.0#

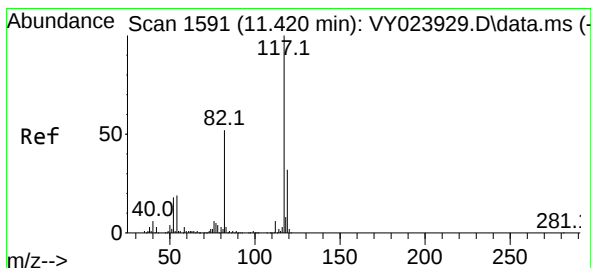
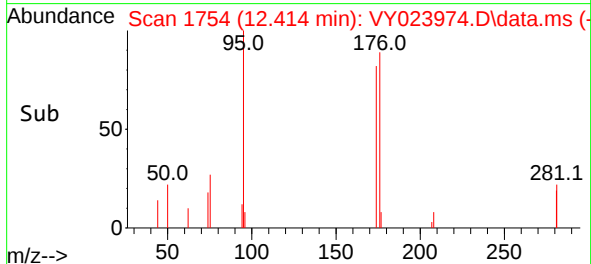
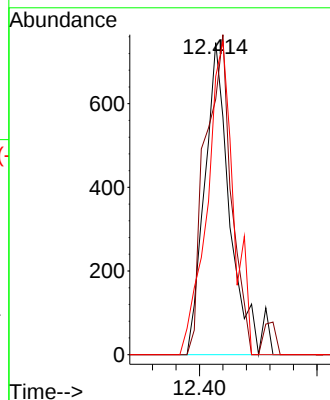
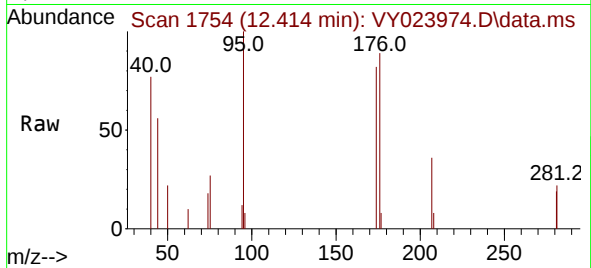




#62
4-Bromofluorobenzene
Concen: 11.135 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

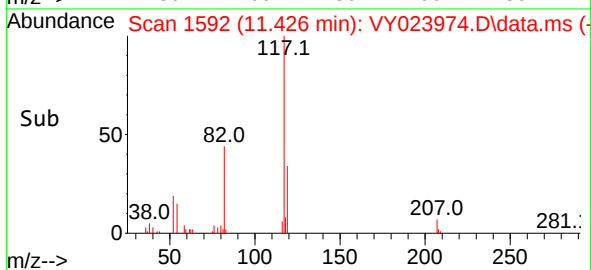
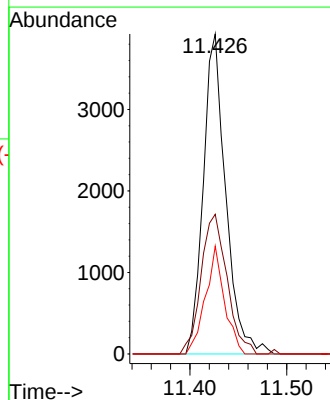
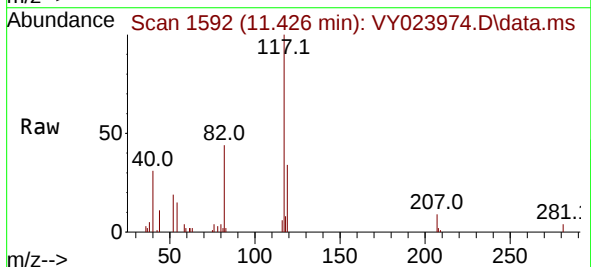
Instrument :
MSVOA_Y
ClientSampleId :
TP02-MH09-VOCRE

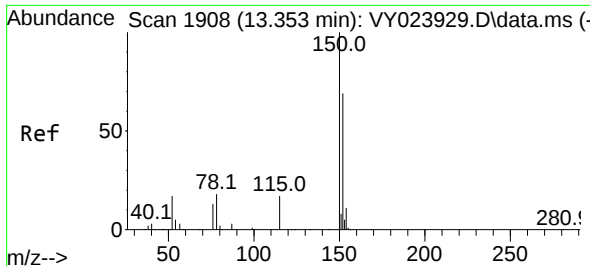
Tgt Ion: 95 Resp: 1126
Ion Ratio Lower Upper
95 100
174 105.0 0.0 187.4
176 103.9 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.006 min
Lab File: VY023974.D
Acq: 15 Dec 2025 14:13

Tgt Ion: 117 Resp: 6335
Ion Ratio Lower Upper
117 100
82 43.6 41.4 62.2
119 33.7 25.5 38.3

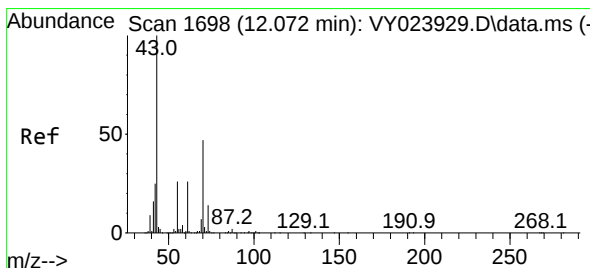
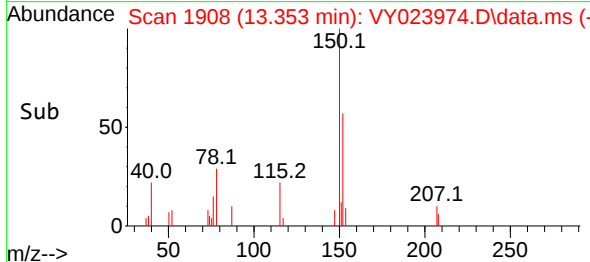
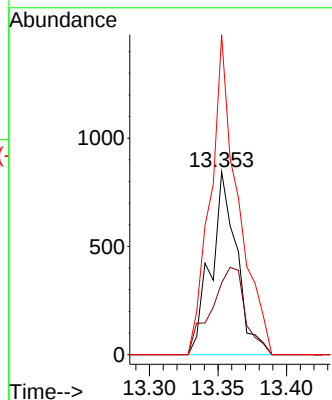
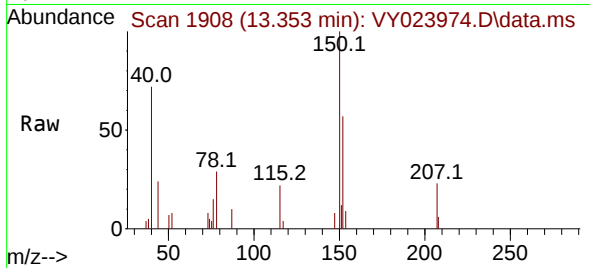




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.353 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VY023974.D
 Acq: 15 Dec 2025 14:13

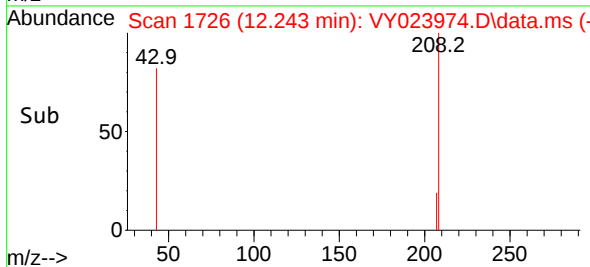
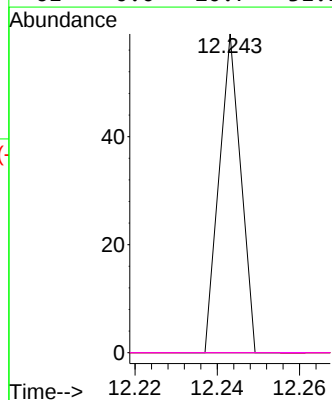
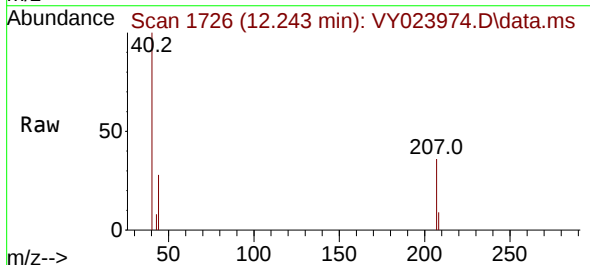
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP02-MH09-VOCRE

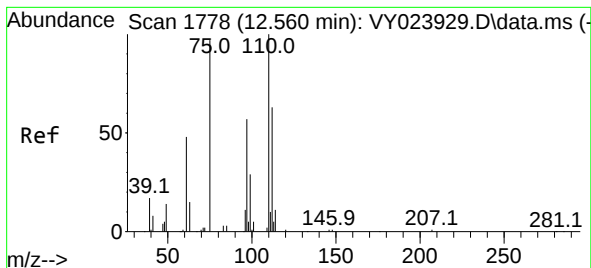
Tgt Ion:	152	Resp:	1102
Ion	Ratio	Lower	Upper
152	100		
115	63.2	27.3	81.9
150	186.0	0.0	347.6



#74
 N-ethyl acetate
 Concen: 1.540 ug/l
 RT: 12.243 min Scan# 1726
 Delta R.T. 0.171 min
 Lab File: VY023974.D
 Acq: 15 Dec 2025 14:13

Tgt Ion:	43	Resp:	22
Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.4	56.0#
55	0.0	21.6	32.4#
61	0.0	20.7	31.1#





#76

1,2,3-Trichloropropane

Concen: 62.971 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

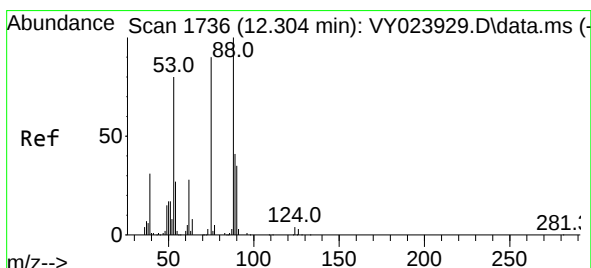
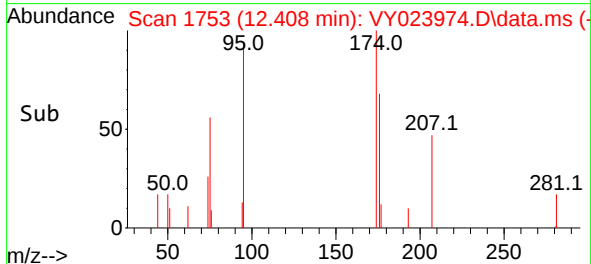
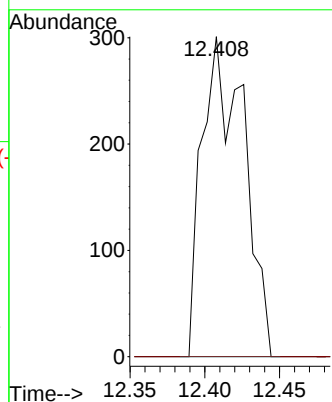
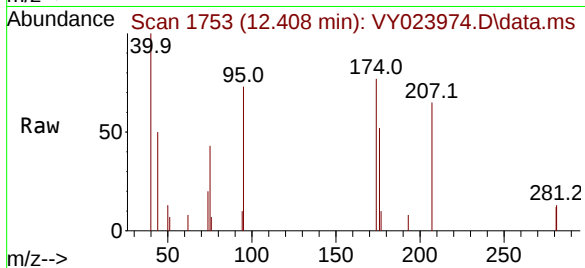
TP02-MH09-VOCRE

Tgt Ion: 75 Resp: 587

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 143.337 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

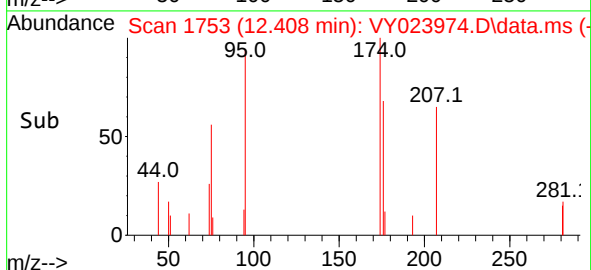
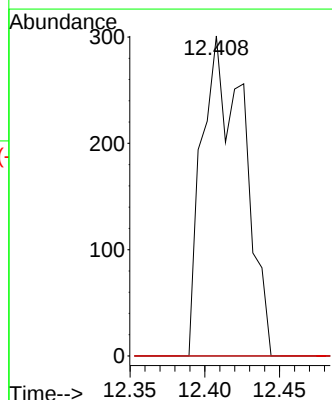
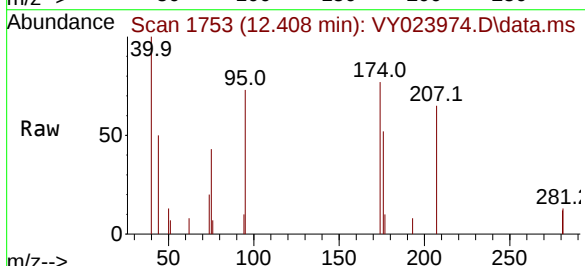
Tgt Ion: 75 Resp: 587

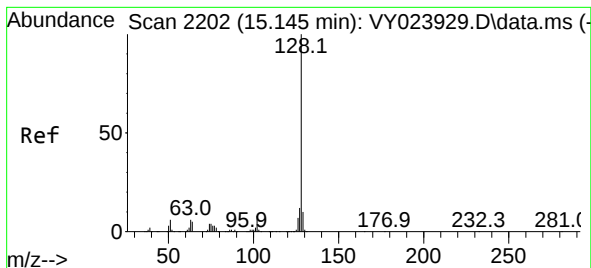
Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.0#

89 0.0 38.9 58.3#





#95

Naphthalene

Concen: 2.815 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

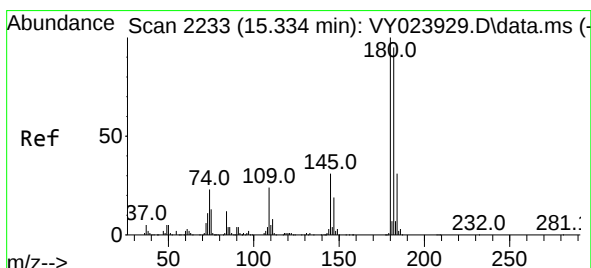
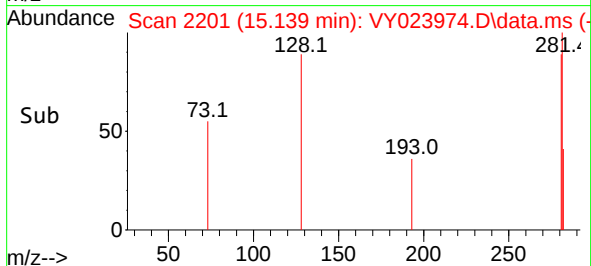
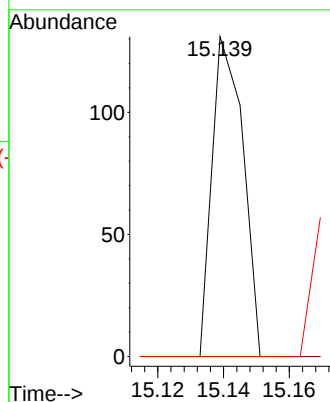
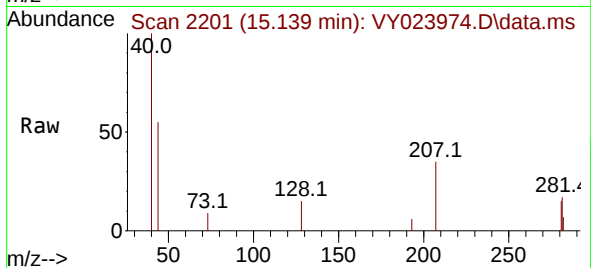
Instrument :

MSVOA_Y

ClientSampleId :

TP02-MH09-VOCRE

Tgt Ion:128	Resp:	86
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.2 15.2#
129	0.0	8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 1.308 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. -0.006 min

Lab File: VY023974.D

Acq: 15 Dec 2025 14:13

Tgt Ion:180	Resp:	22
Ion Ratio	Lower	Upper
180	100	
182	131.8	47.8 143.4
145	0.0	15.6 46.8#

