

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091125\
 Data File : VY023340.D
 Acq On : 11 Sep 2025 11:24
 Operator : SY/MD
 Sample : Q3065-01
 Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-204RE

Quant Time: Sep 12 01:24:46 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)

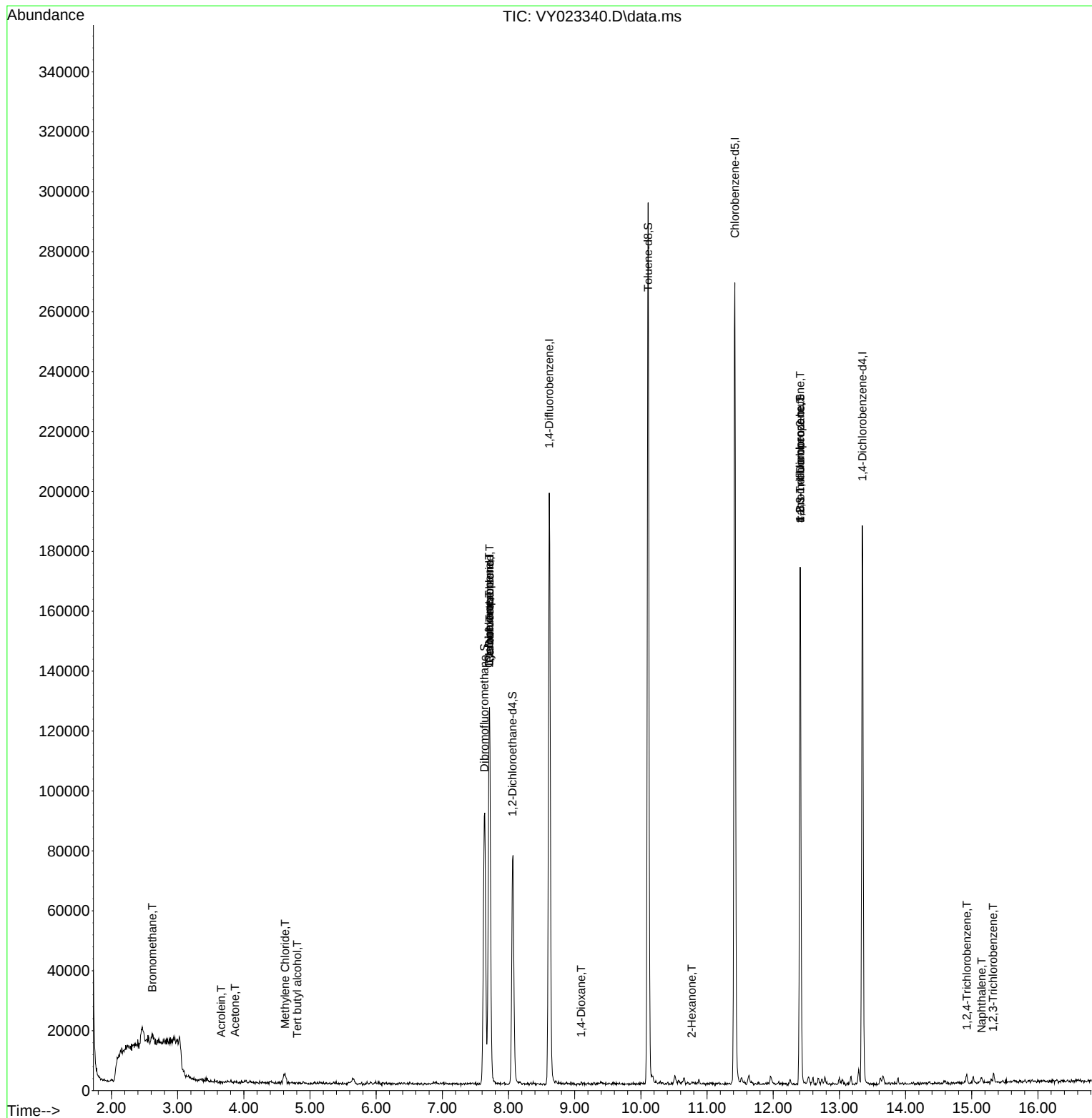
Internal Standards						
1) Pentafluorobenzene	7.713	168	104616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	172690	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	153389	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	50476	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	59415	64.632	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 129.260%	
35) Dibromofluoromethane	7.634	113	66268	62.778	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 125.560%	
50) Toluene-d8	10.109	98	200796	50.376	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.760%	
62) 4-Bromofluorobenzene	12.408	95	51647	41.173	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 82.340%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.617	94	2586	2.093	ug/l #	66
11) Tert butyl alcohol	4.805	59	57	1.073	ug/l #	71
13) Acrolein	3.659	56	161	1.793	ug/l #	71
16) Acetone	3.866	43	808	3.859	ug/l #	70
20) Methylene Chloride	4.622	84	2437	2.175	ug/l #	94
31) Cyclohexane	7.707	56	2137	1.328	ug/l #	55
36) 1,1-Dichloropropene	7.707	75	7587	5.046	ug/l #	49
38) Carbon Tetrachloride	7.713	117	9799	5.664	ug/l #	18
49) 1,4-Dioxane	9.097	88	22	3.372	ug/l #	1
59) 2-Hexanone	10.768	43	519	1.262	ug/l	89
76) 1,2,3-Trichloropropane	12.408	75	25466	49.820	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	25466	135.863	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.925	180	1198	1.370	ug/l	96
95) Naphthalene	15.151	128	1711	1.218	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.322	180	1007	1.326	ug/l #	89

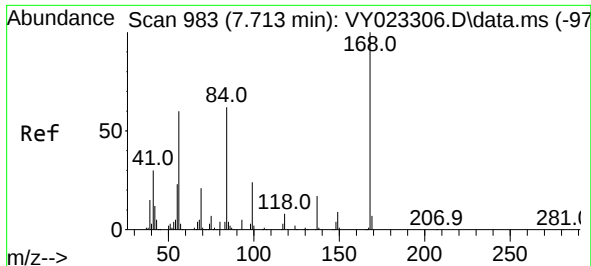
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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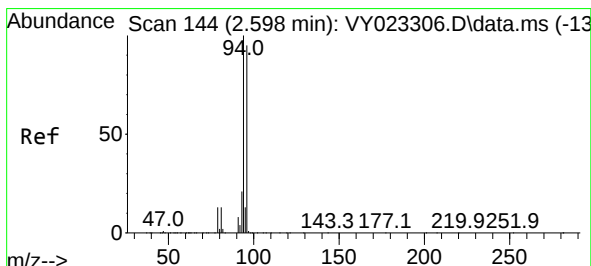
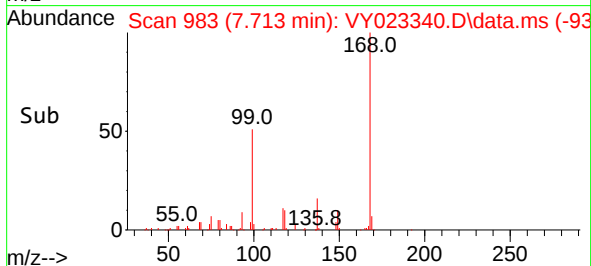
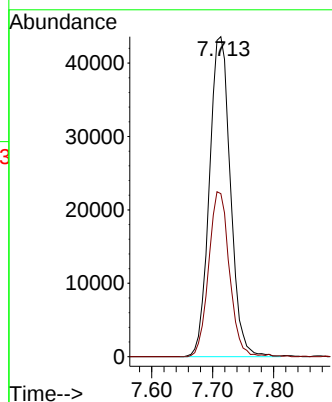
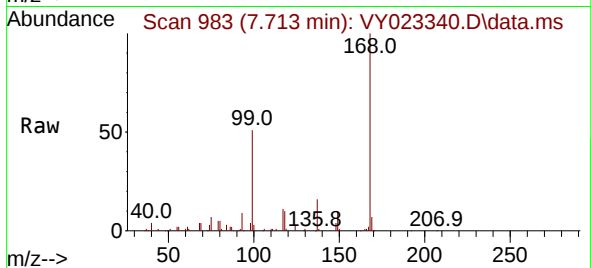




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

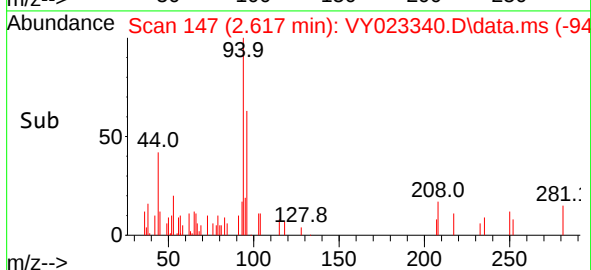
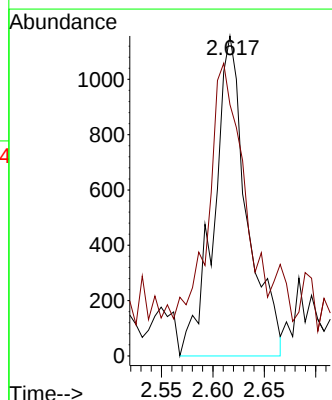
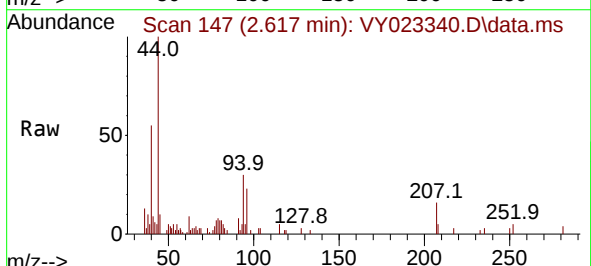
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-204RE

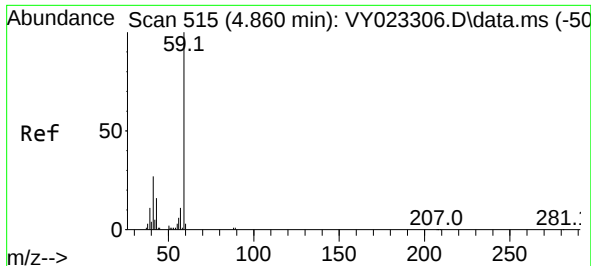
Tgt Ion:168 Resp: 104616
Ion Ratio Lower Upper
168 100
99 51.0 42.8 64.2



#5
Bromomethane
Concen: 2.093 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.024 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion: 94 Resp: 2586
Ion Ratio Lower Upper
94 100
96 60.2 74.6 112.0#

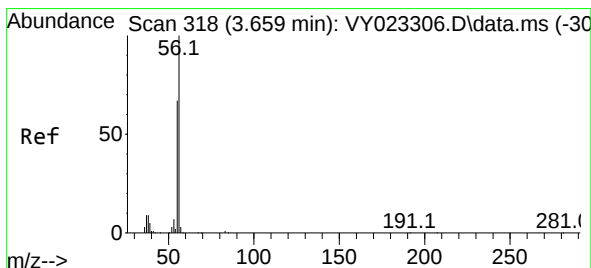
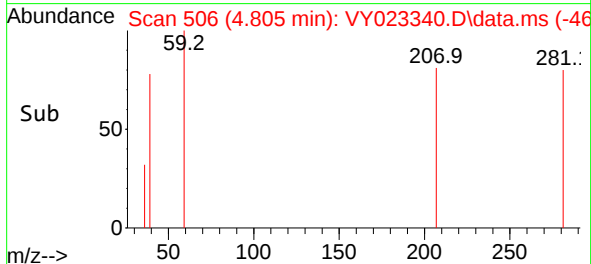
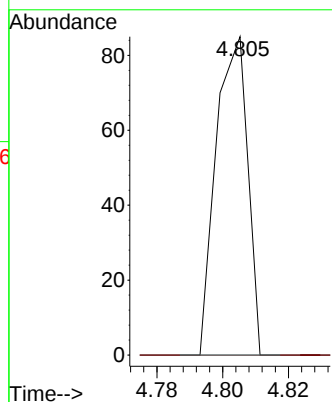
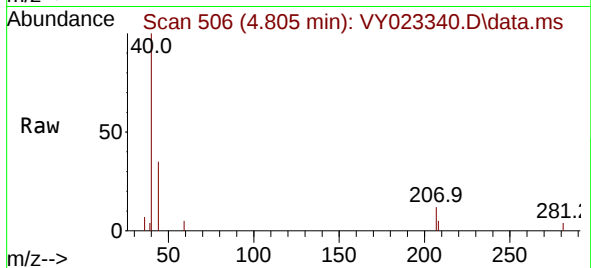




#11
Tert butyl alcohol
Concen: 1.073 ug/l
RT: 4.805 min Scan# 506
Delta R.T. -0.055 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

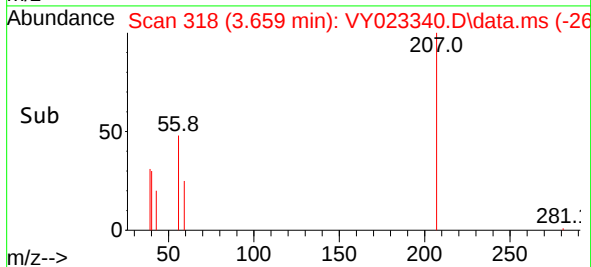
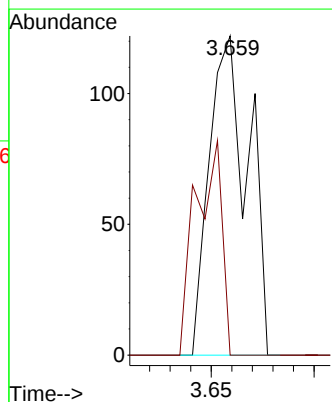
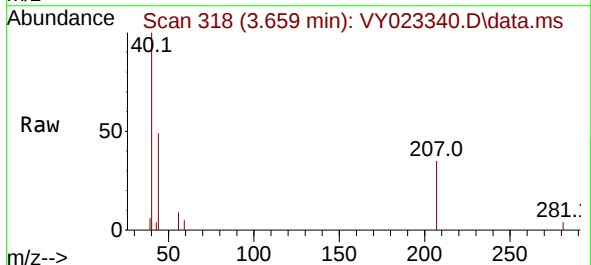
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-204RE

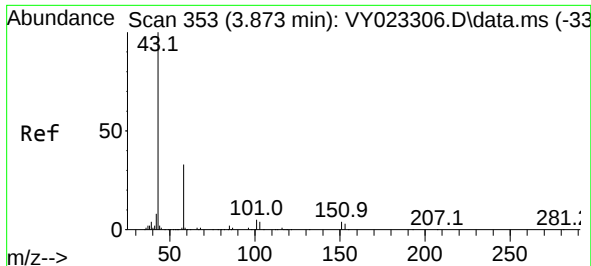
Tgt Ion: 59 Resp: 57
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#13
Acrolein
Concen: 1.793 ug/l
RT: 3.659 min Scan# 318
Delta R.T. 0.012 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion: 56 Resp: 161
Ion Ratio Lower Upper
56 100
55 45.3 55.2 82.8#

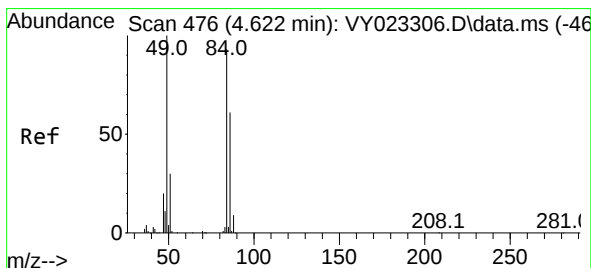
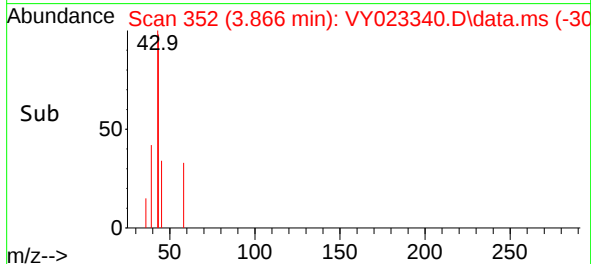
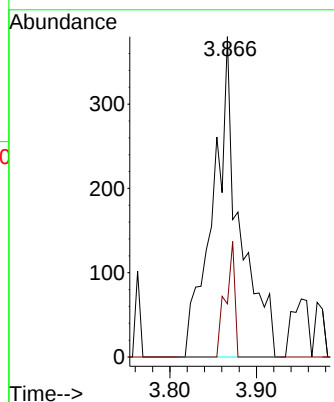
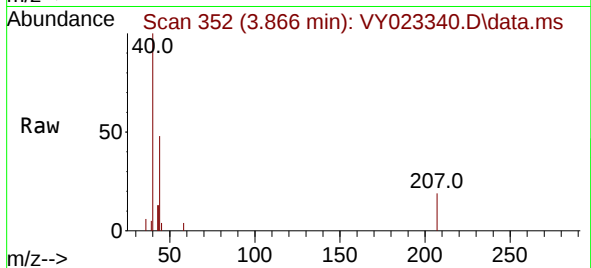




#16
Acetone
Concen: 3.859 ug/l
RT: 3.866 min Scan# 311
Delta R.T. 0.006 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

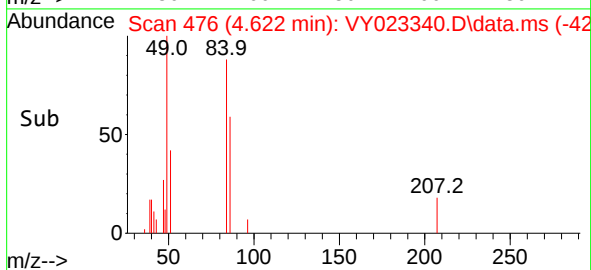
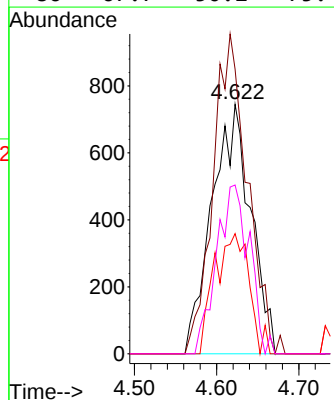
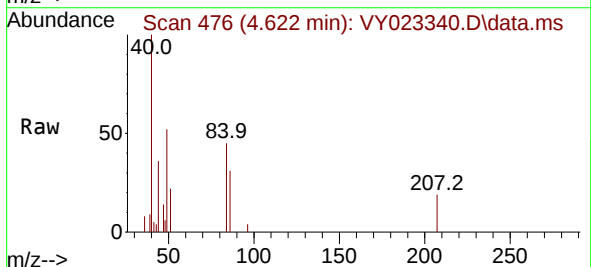
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-204RE

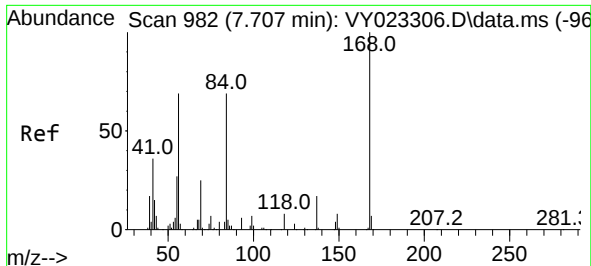
Tgt Ion: 43 Resp: 808
Ion Ratio Lower Upper
43 100
58 16.6 27.1 40.7#



#20
Methylene Chloride
Concen: 2.175 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.018 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion: 84 Resp: 2437
Ion Ratio Lower Upper
84 100
49 114.1 93.0 139.6
51 48.2 29.0 43.4#
86 67.7 50.2 75.4

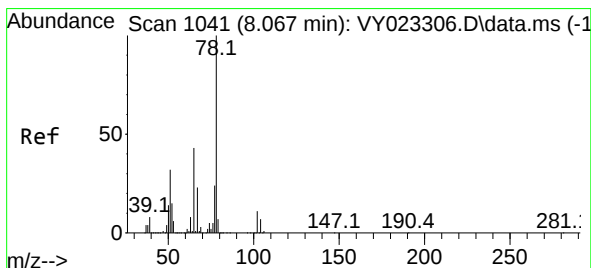
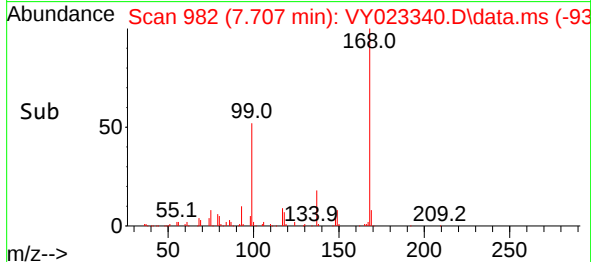
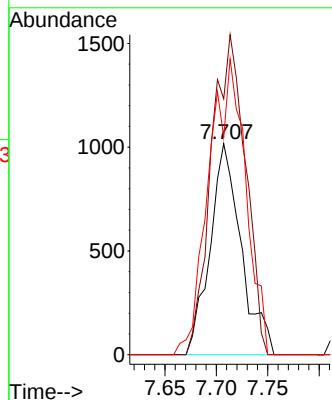
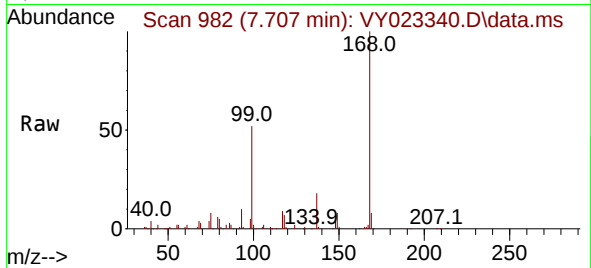




#31
Cyclohexane
Concen: 1.328 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

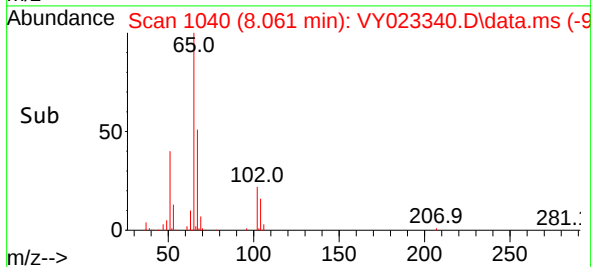
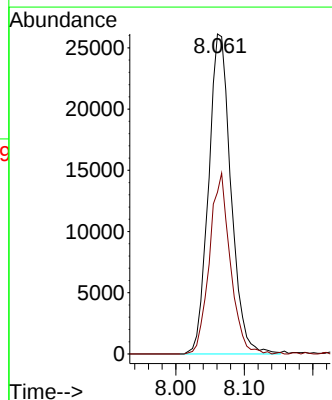
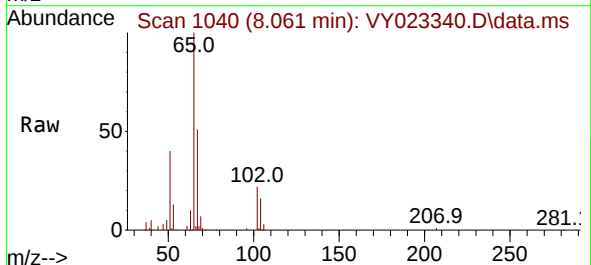
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-204RE

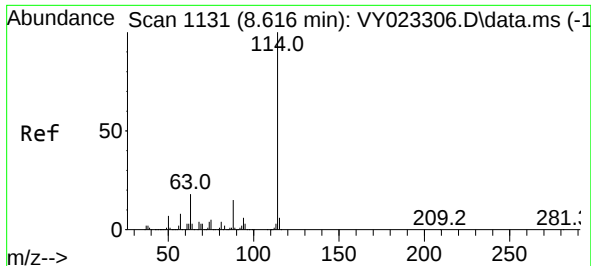
Tgt Ion: 56 Resp: 2137
Ion Ratio Lower Upper
56 100
69 121.2 28.2 42.2#
84 103.0 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 64.632 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion: 65 Resp: 59415
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.8

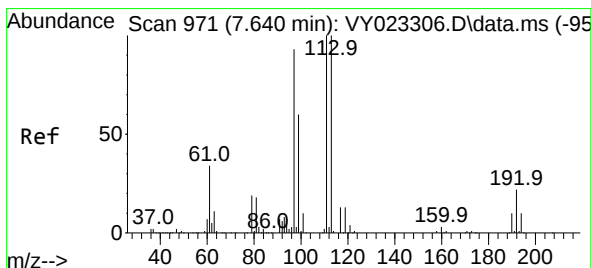
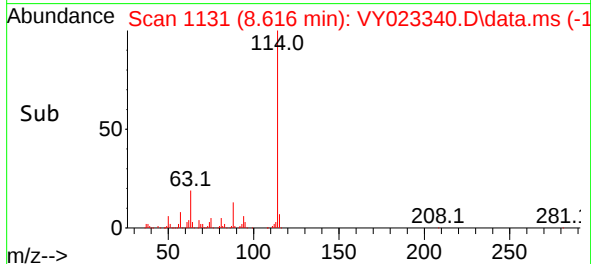
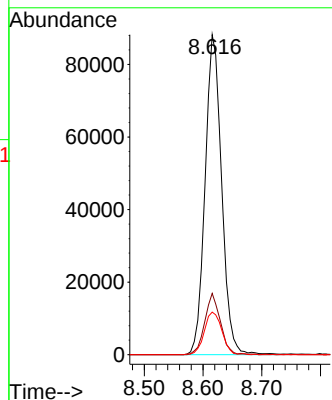
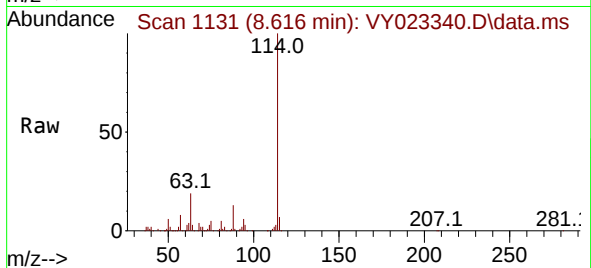




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

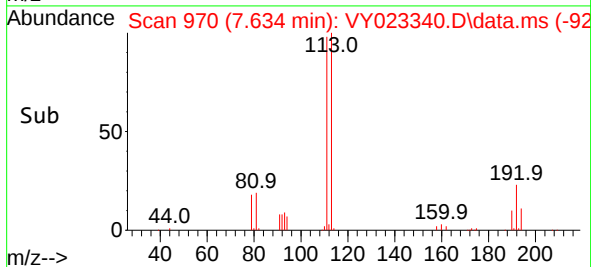
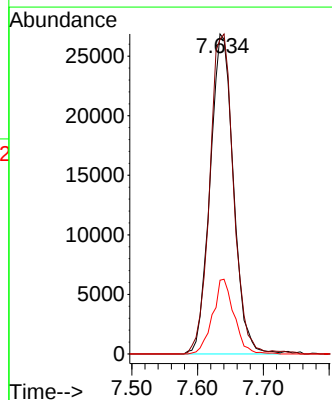
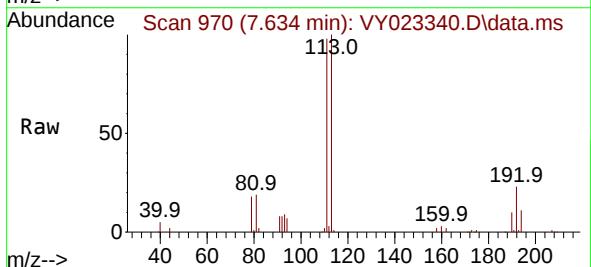
Instrument :
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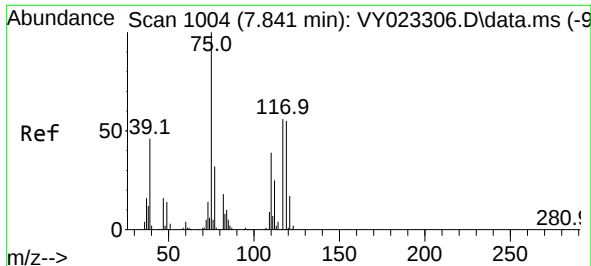
Tgt Ion:114 Resp: 172690
Ion Ratio Lower Upper
114 100
63 19.1 0.0 38.4
88 13.3 0.0 30.0



#35
Dibromofluoromethane
Concen: 62.778 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion:113 Resp: 66268
Ion Ratio Lower Upper
113 100
111 101.5 81.1 121.7
192 21.5 16.2 24.4

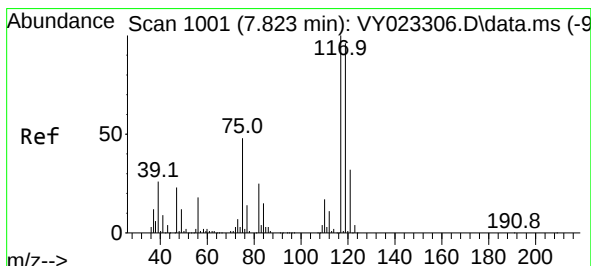
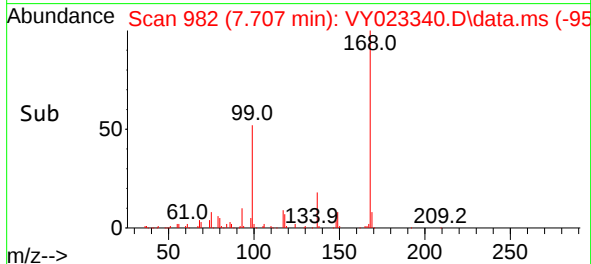
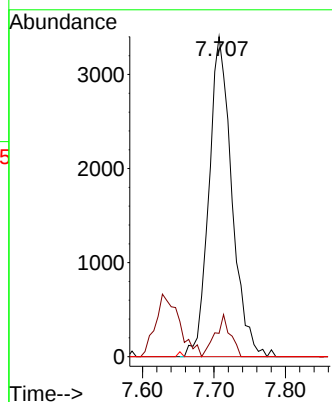
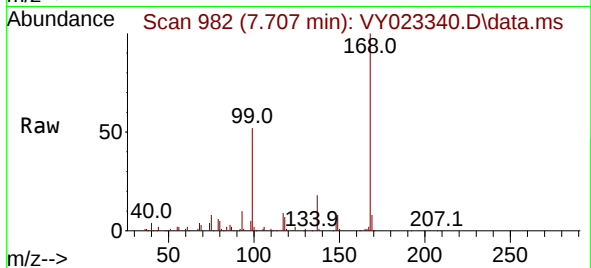




#36
 1,1-Dichloropropene
 Concen: 5.046 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.122 min
 Lab File: VY023340.D
 Acq: 11 Sep 2025 11:24

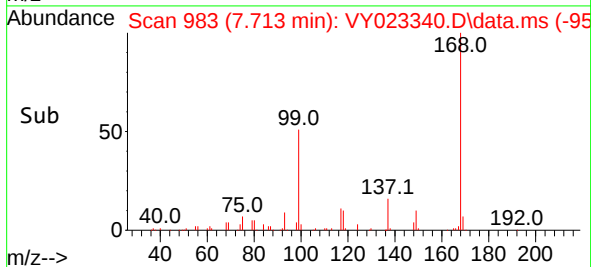
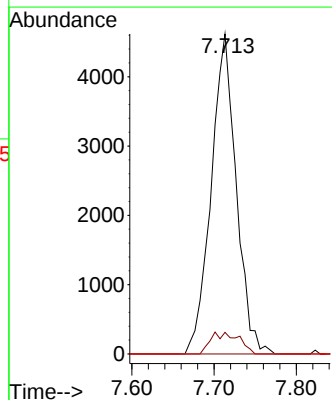
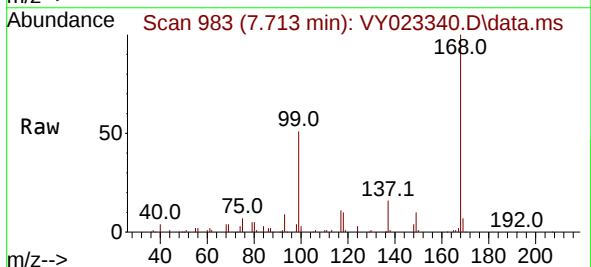
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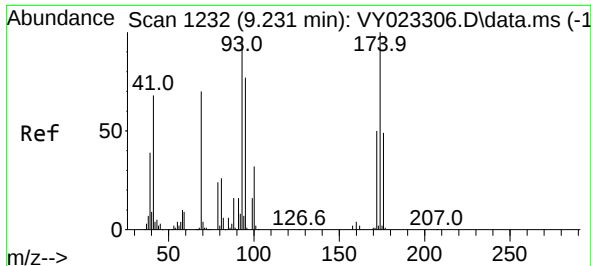
Tgt Ion: 75 Resp: 7587
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.4#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.664 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.104 min
 Lab File: VY023340.D
 Acq: 11 Sep 2025 11:24

Tgt Ion: 117 Resp: 9799
 Ion Ratio Lower Upper
 117 100
 119 6.7 75.6 113.4#
 121 0.0 25.8 38.8#





#49

1,4-Dioxane

Concen: 3.372 ug/l

RT: 9.097 min Scan# 11

Delta R.T. -0.128 min

Lab File: VY023340.D

Acq: 11 Sep 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-204RE

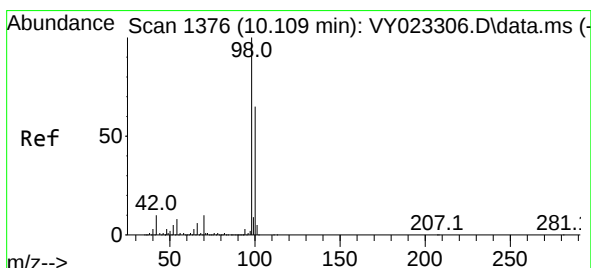
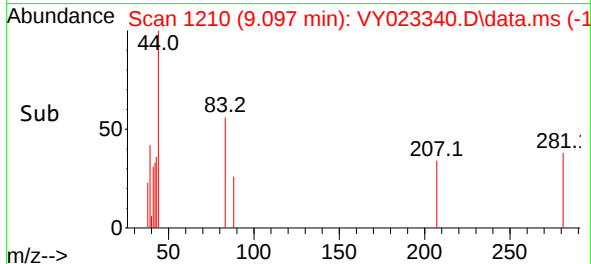
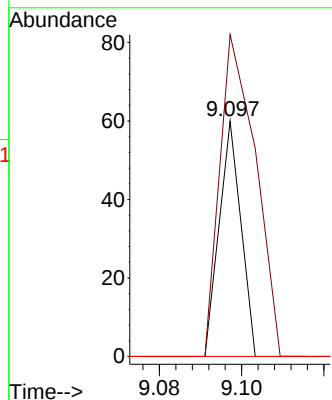
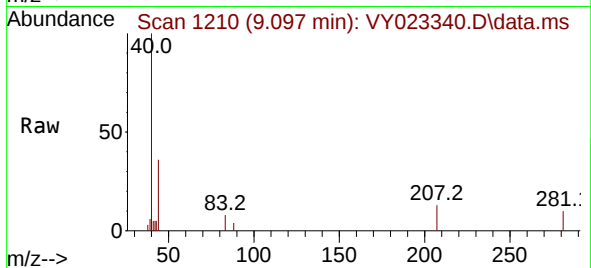
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 222.7 24.3 36.5#

58 0.0 55.4 83.0#



#50

Toluene-d8

Concen: 50.376 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023340.D

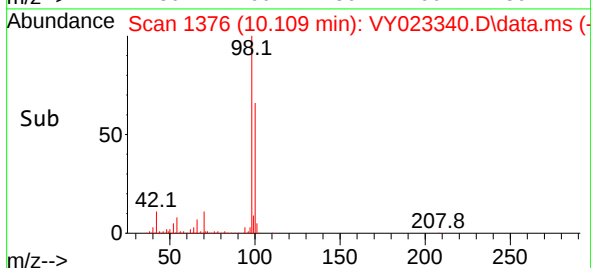
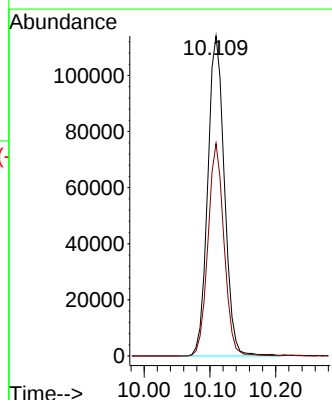
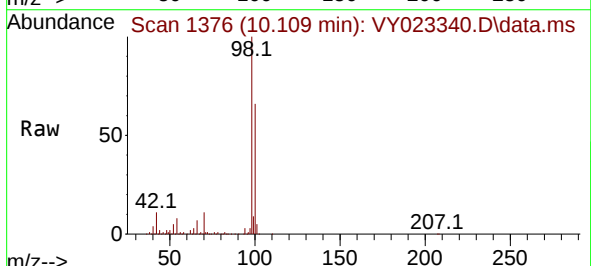
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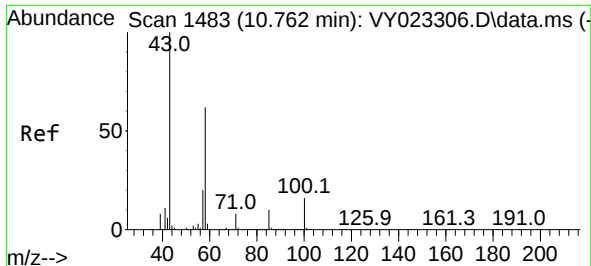
Tgt Ion: 98 Resp: 200796

Ion Ratio Lower Upper

98 100

100 64.0 52.3 78.5

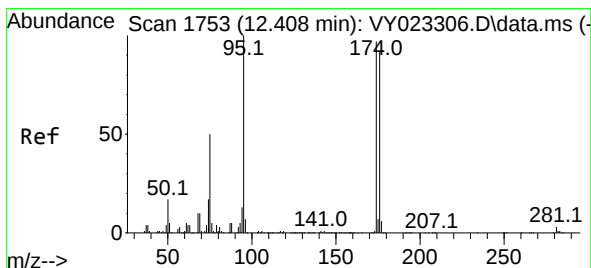
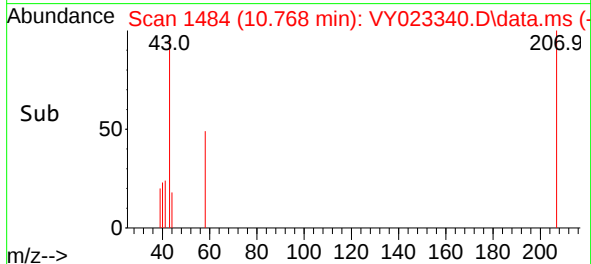
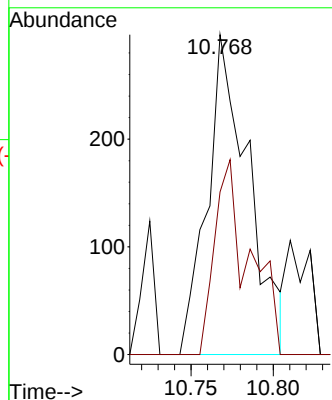
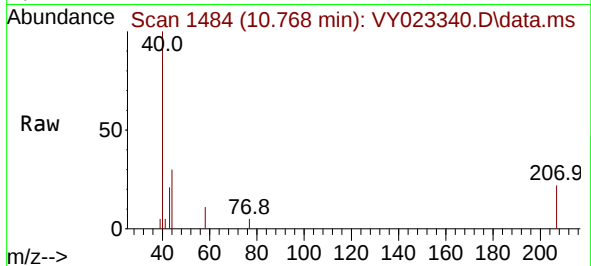




#59
2-Hexanone
Concen: 1.262 ug/l
RT: 10.768 min Scan# 1484
Delta R.T. 0.012 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

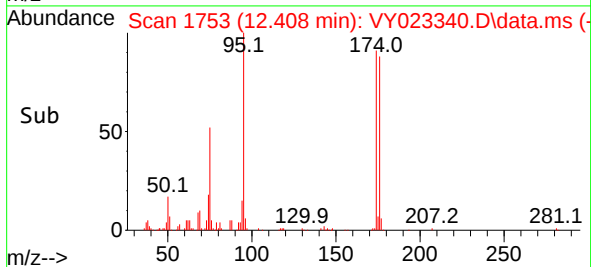
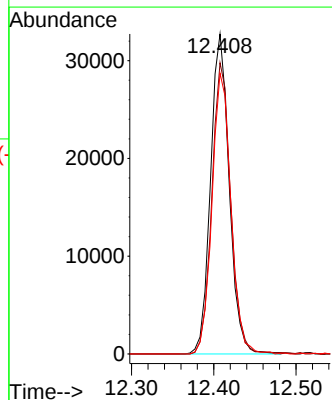
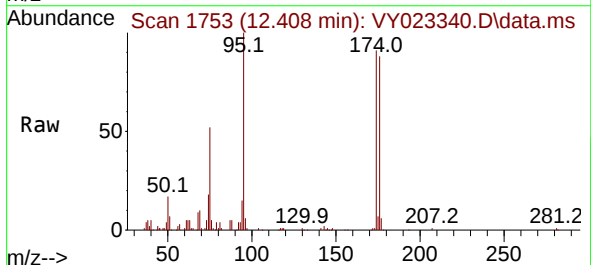
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-204RE

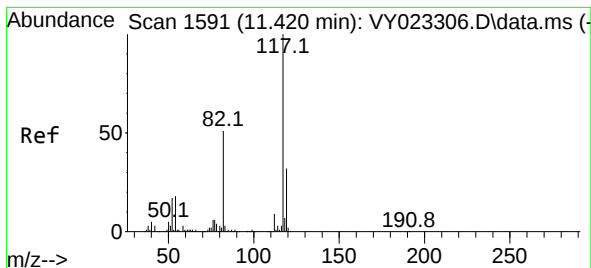
Tgt Ion: 43 Resp: 519
Ion Ratio Lower Upper
43 100
58 51.1 29.5 88.5



#62
4-Bromofluorobenzene
Concen: 41.173 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion: 95 Resp: 51647
Ion Ratio Lower Upper
95 100
174 92.3 0.0 171.6
176 88.9 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023340.D

Acq: 11 Sep 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-204RE

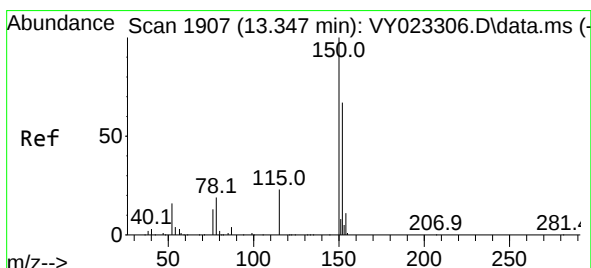
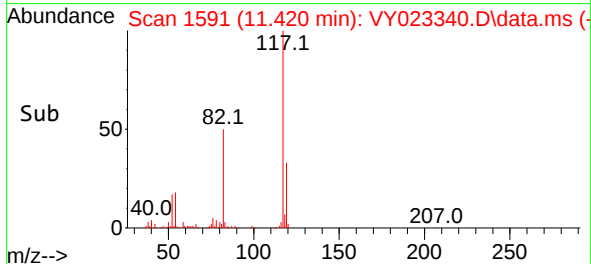
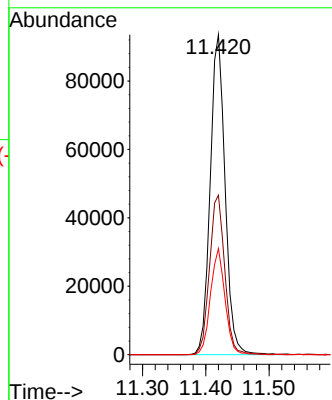
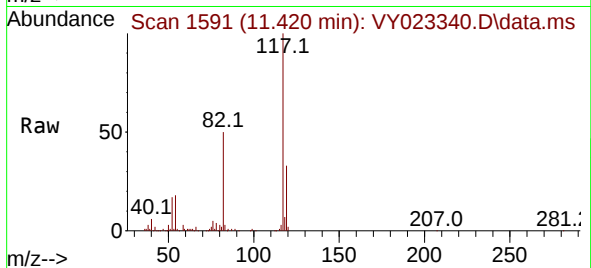
Tgt Ion:117 Resp: 153389

Ion Ratio Lower Upper

117 100

82 49.9 43.4 65.0

119 33.2 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023340.D

Acq: 11 Sep 2025 11:24

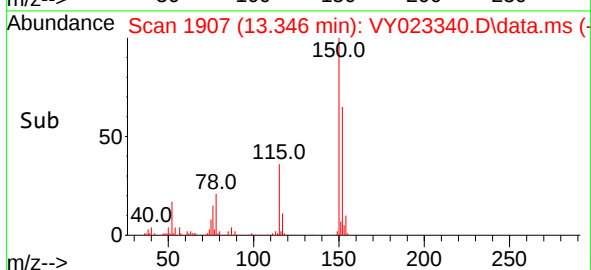
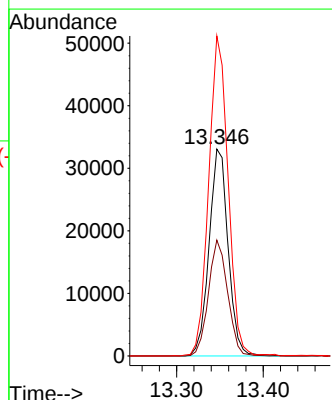
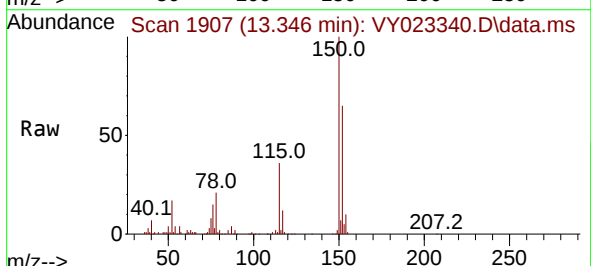
Tgt Ion:152 Resp: 50476

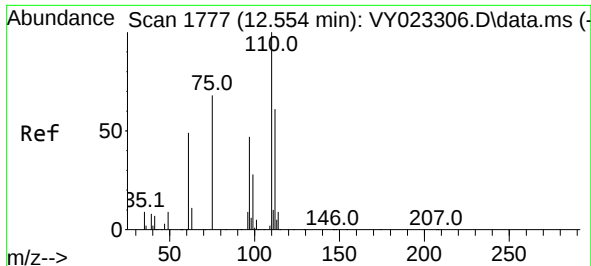
Ion Ratio Lower Upper

152 100

115 56.3 28.2 84.6

150 157.2 0.0 348.0

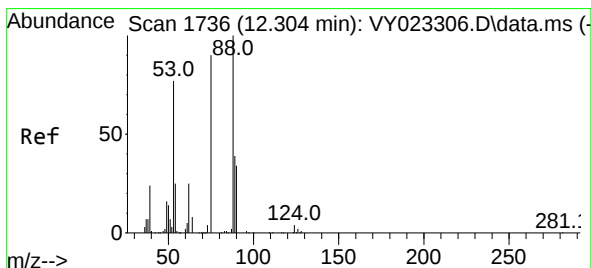
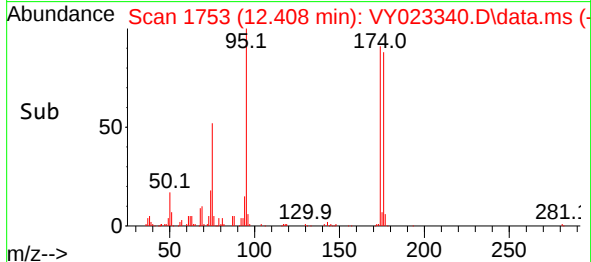
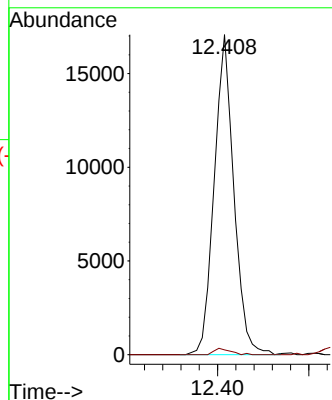
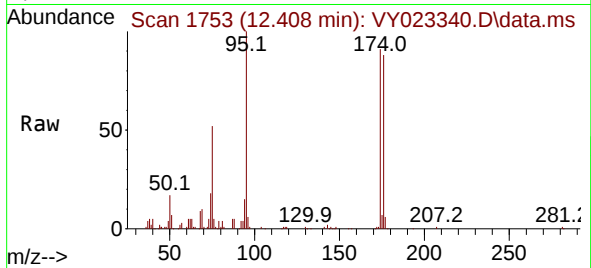




#76
 1,2,3-Trichloropropane
 Concen: 49.820 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.140 min
 Lab File: VY023340.D
 Acq: 11 Sep 2025 11:24

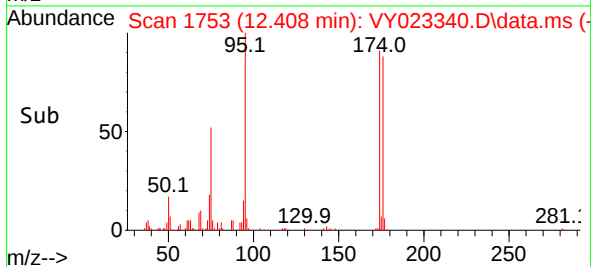
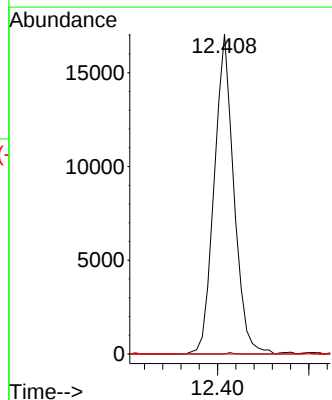
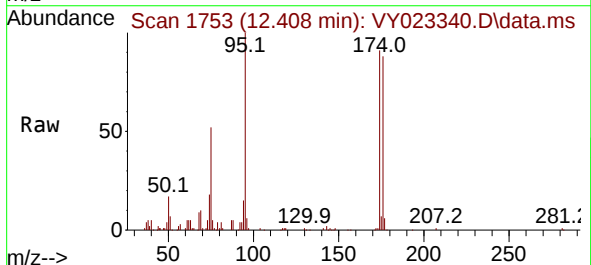
Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-204RE

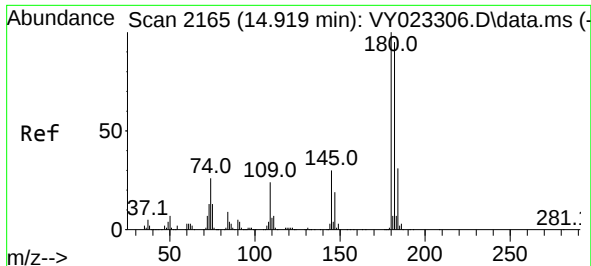
Tgt Ion: 75 Resp: 25466
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 135.863 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY023340.D
 Acq: 11 Sep 2025 11:24

Tgt Ion: 75 Resp: 25466
 Ion Ratio Lower Upper
 75 100
 53 0.1 70.8 106.2#
 89 0.0 38.1 57.1#

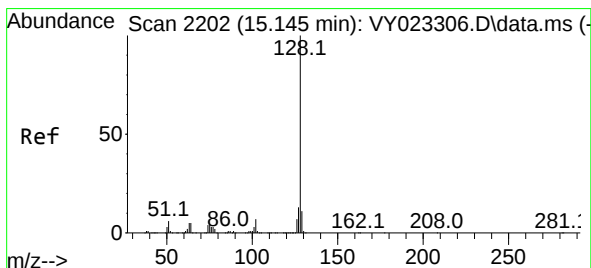
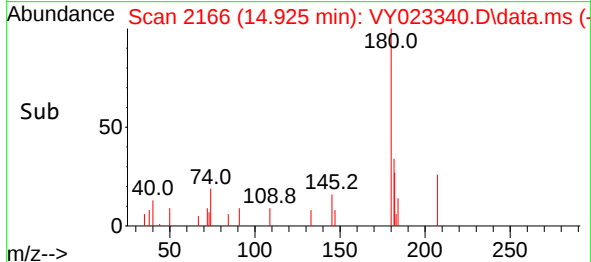
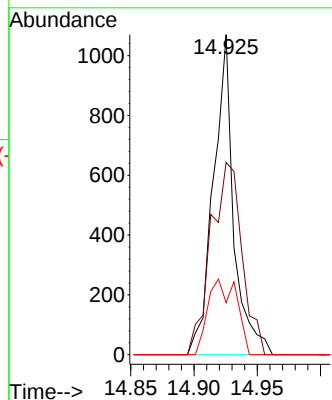
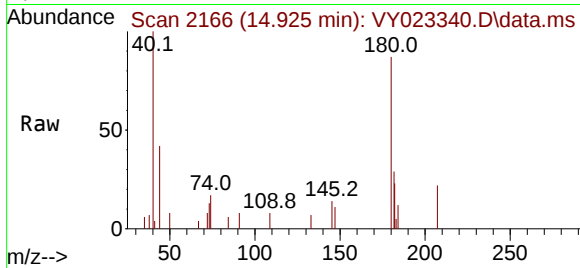




#93
1,2,4-Trichlorobenzene
Concen: 1.370 ug/l
RT: 14.925 min Scan# 2166
Delta R.T. 0.012 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

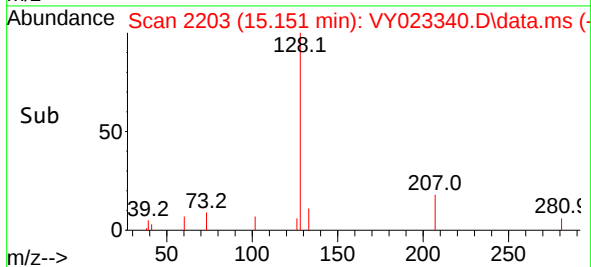
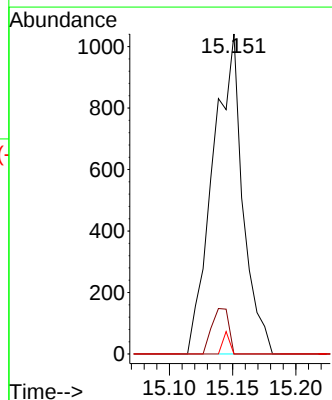
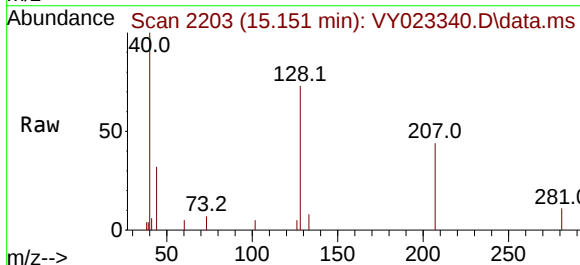
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-204RE

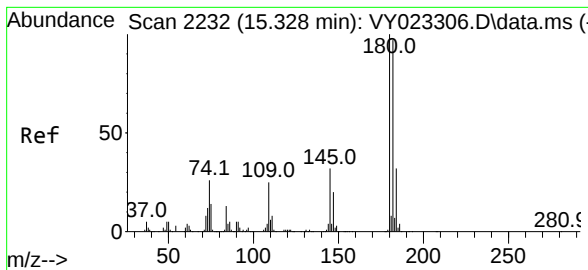
Tgt Ion:180	Resp:	1198
Ion Ratio	Lower	Upper
180	100	
182	91.5	46.8 140.4
145	33.1	14.4 43.4



#95
Naphthalene
Concen: 1.218 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.012 min
Lab File: VY023340.D
Acq: 11 Sep 2025 11:24

Tgt Ion:128	Resp:	1711
Ion Ratio	Lower	Upper
128	100	
127	8.1	10.4 15.6#
129	1.6	9.0 13.4#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.326 ug/l
 RT: 15.322 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY023340.D
 Acq: 11 Sep 2025 11:24

Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-204RE

Tgt Ion:	180	Resp:	1007
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.7
145	8.3	15.9	47.7#

