

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
 Data File : VY023414.D
 Acq On : 09 Oct 2025 11:47
 Operator : SY/MD
 Sample : Q3318-01
 Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-207

Quant Time: Oct 10 04:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

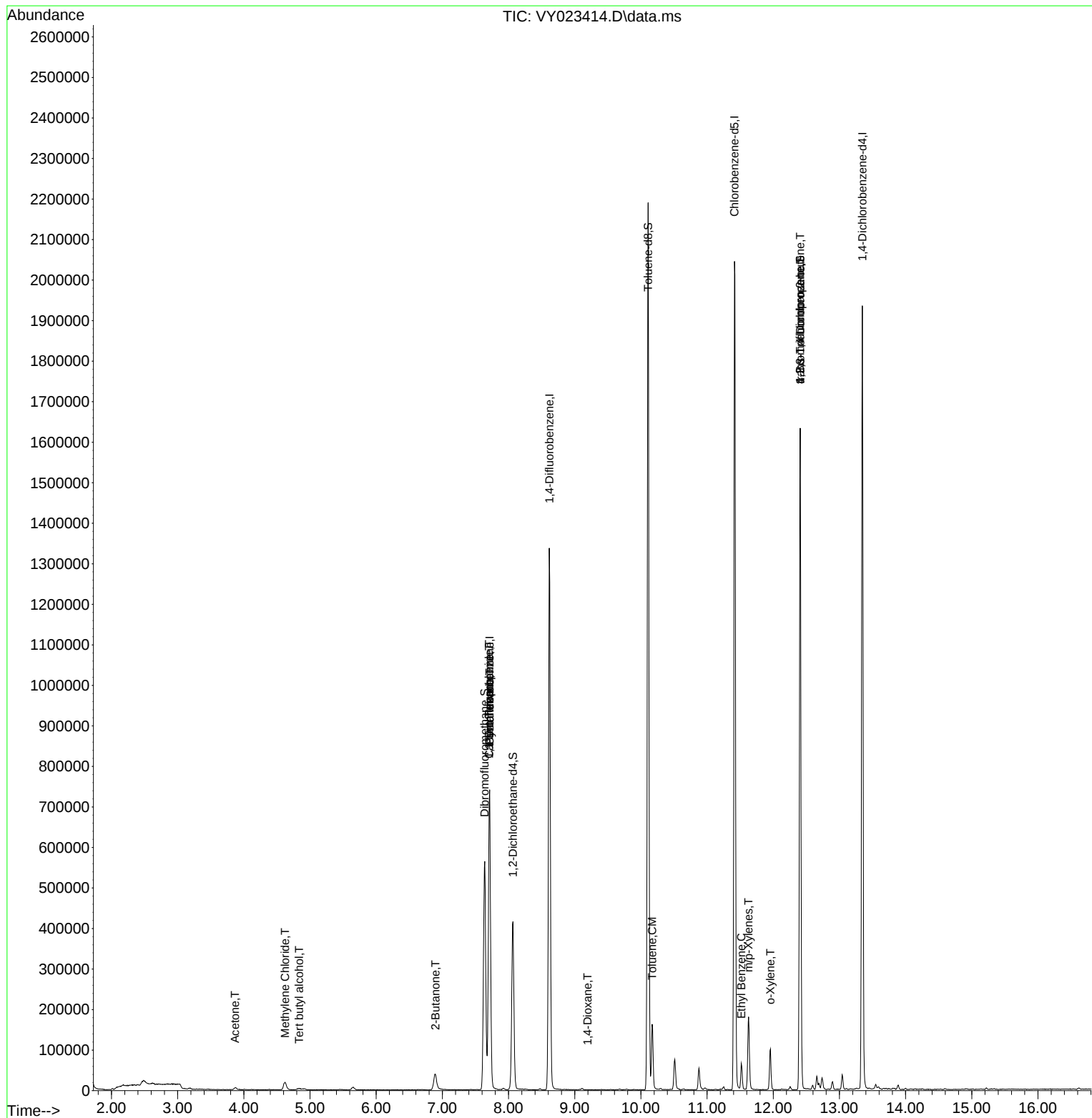
Internal Standards						
1) Pentafluorobenzene	7.713	168	619900	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1205387	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1186929	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	518747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	320385	61.806	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 123.620%	
35) Dibromofluoromethane	7.640	113	401363	54.190	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.380%	
50) Toluene-d8	10.109	98	1438063	52.137	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.280%	
62) 4-Bromofluorobenzene	12.408	95	478158	52.508	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 105.020%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.836	59	2436	6.317	ug/l #	79
16) Acetone	3.866	43	9110	7.382	ug/l #	87
20) Methylene Chloride	4.622	84	14759	2.212	ug/l	96
25) 2-Butanone	6.896	43	2311	1.534	ug/l #	40
31) Cyclohexane	7.713	56	11546	1.339	ug/l #	19
36) 1,1-Dichloropropene	7.707	75	39966	4.076	ug/l #	49
38) Carbon Tetrachloride	7.707	117	56813	4.778	ug/l #	16
49) 1,4-Dioxane	9.195	88	51	1.014	ug/l #	30
52) Toluene	10.170	92	68841	3.414	ug/l	99
67) Ethyl Benzene	11.517	91	43167	1.033	ug/l	98
68) m/p-Xylenes	11.627	106	57903	3.455	ug/l	100
69) o-Xylene	11.956	106	27838	1.771	ug/l	97
76) 1,2,3-Trichloropropane	12.408	75	236398	51.652	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	236398	126.661	ug/l #	15

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

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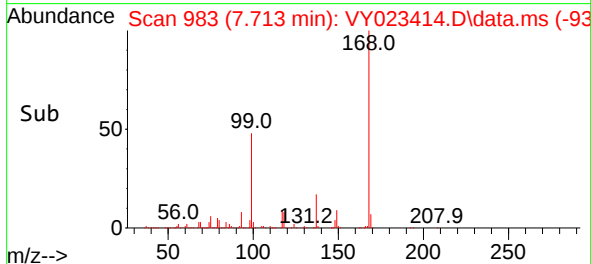
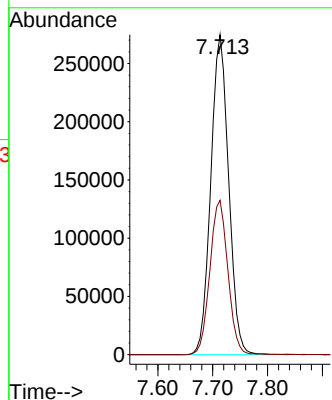
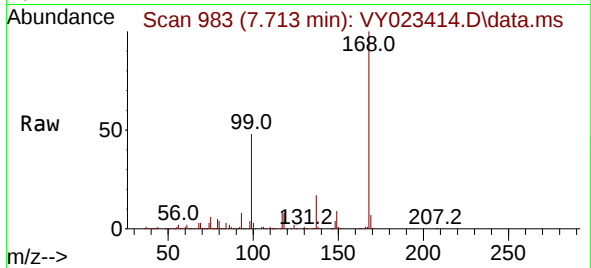




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

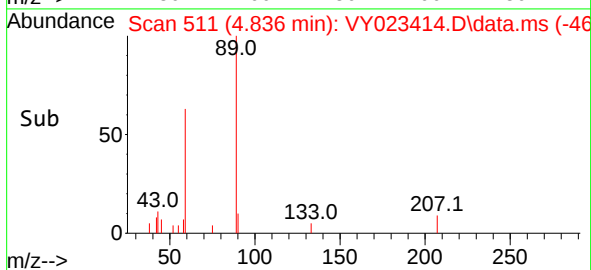
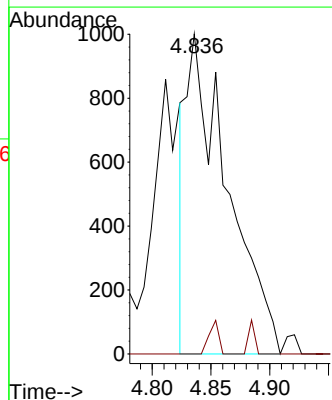
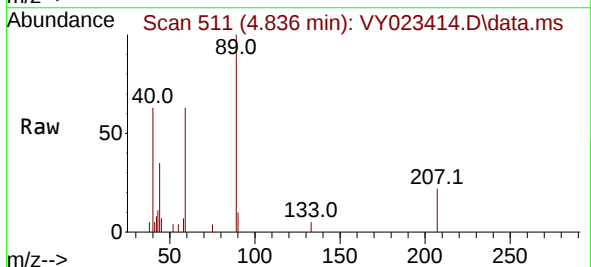
Instrument :
MSVOA_Y
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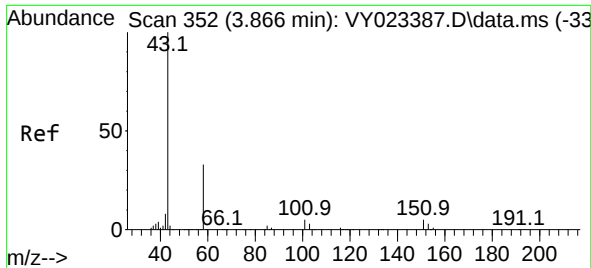
Tgt Ion:168 Resp: 619900
Ion Ratio Lower Upper
168 100
99 48.2 39.7 59.5



#11
Tert butyl alcohol
Concen: 6.317 ug/l
RT: 4.836 min Scan# 511
Delta R.T. -0.025 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 59 Resp: 2436
Ion Ratio Lower Upper
59 100
57 2.4 8.3 12.5#

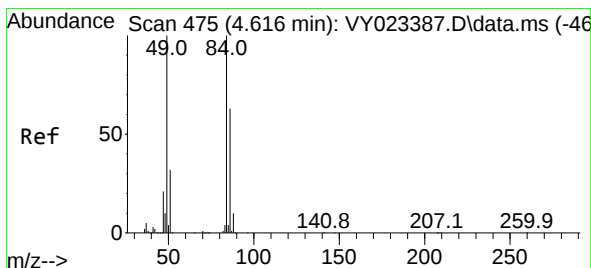
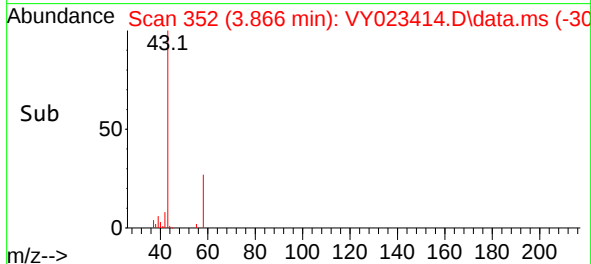
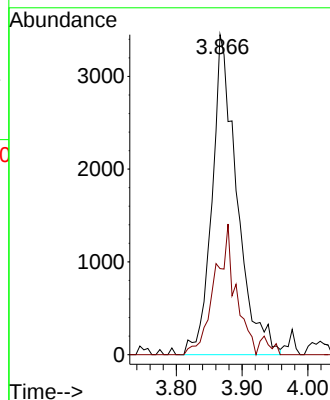
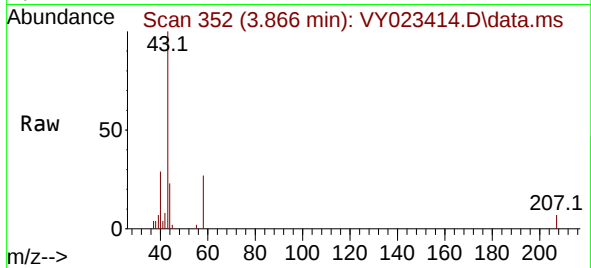




#16
Acetone
Concen: 7.382 ug/l
RT: 3.866 min Scan# 311
Delta R.T. -0.000 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

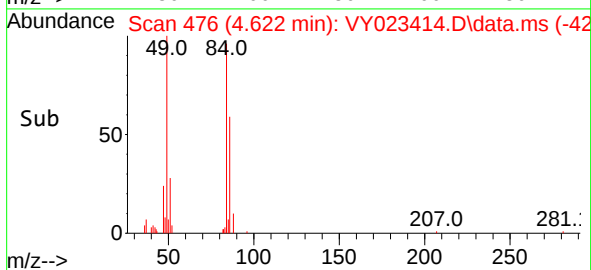
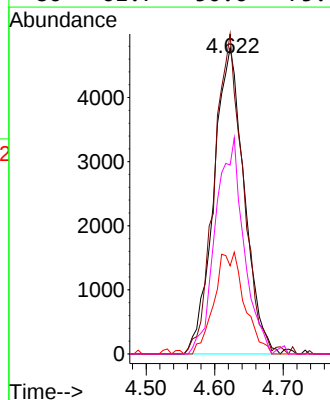
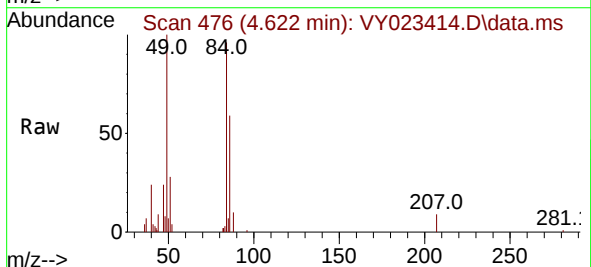
Instrument :
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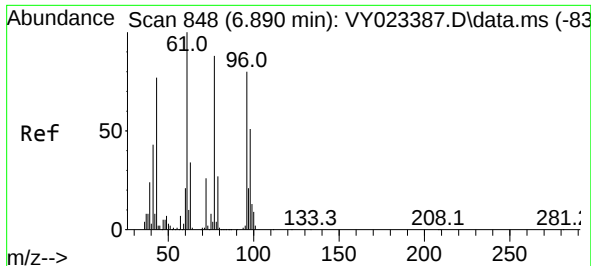
Tgt Ion: 43 Resp: 9110
Ion Ratio Lower Upper
43 100
58 26.9 27.7 41.5#



#20
Methylene Chloride
Concen: 2.212 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 84 Resp: 14759
Ion Ratio Lower Upper
84 100
49 104.5 80.2 120.4
51 28.8 25.9 38.9
86 61.7 50.6 75.8

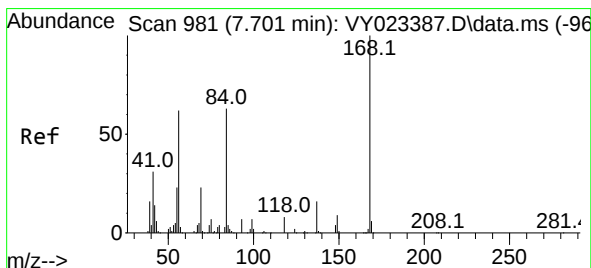
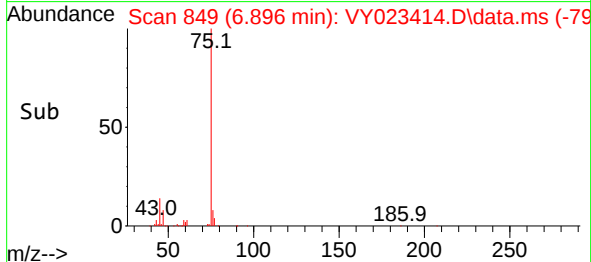
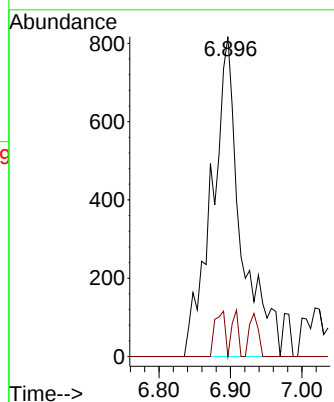
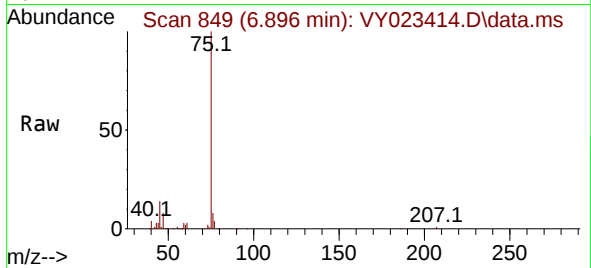




#25
2-Butanone
Concen: 1.534 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

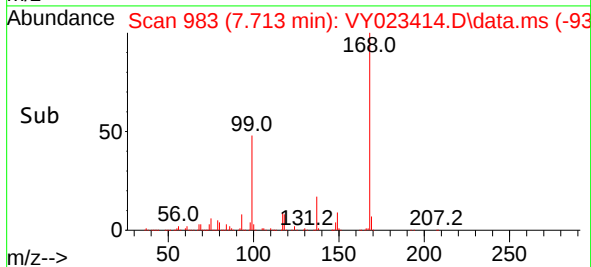
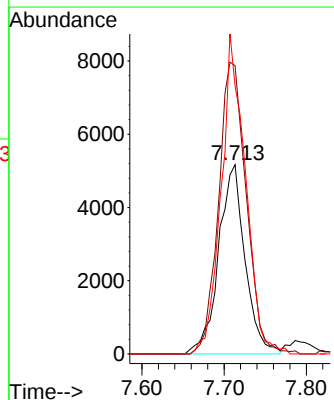
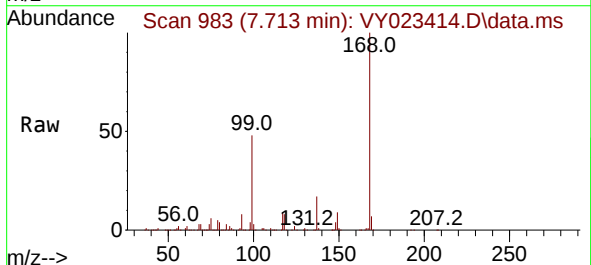
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207

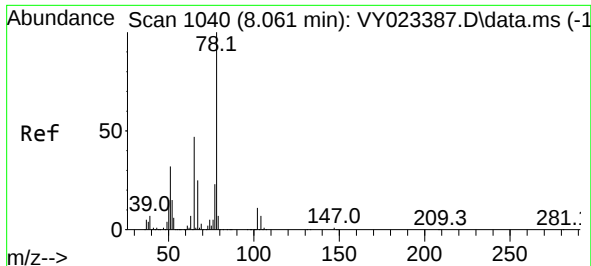
Tgt Ion: 43 Resp: 2311
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#31
Cyclohexane
Concen: 1.339 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 56 Resp: 11546
Ion Ratio Lower Upper
56 100
69 152.4 30.0 45.0#
84 141.6 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 61.806 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023414.D

Acq: 09 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

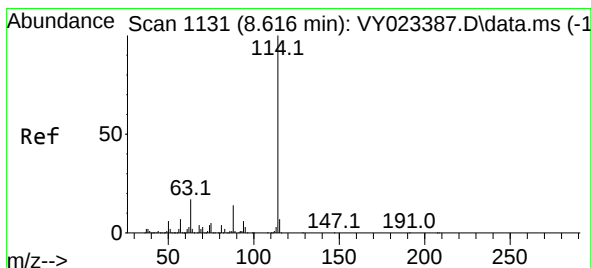
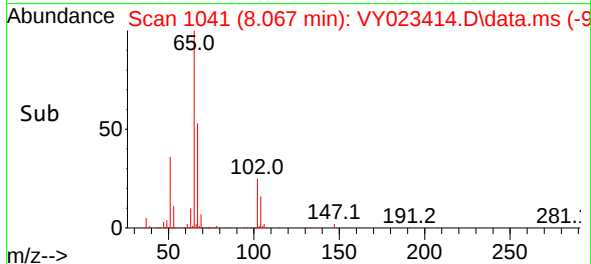
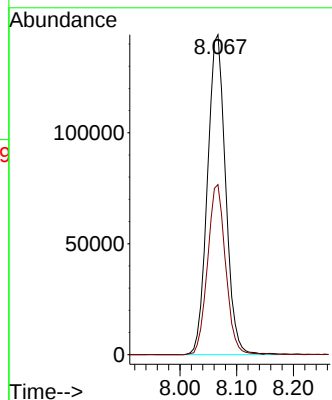
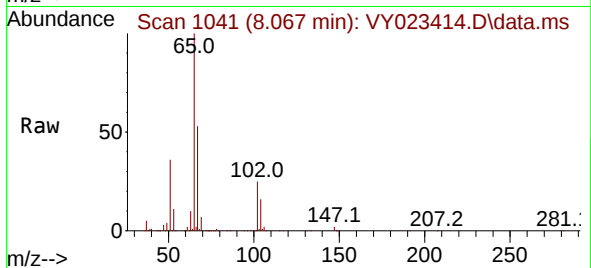
VNJ-207

Tgt Ion: 65 Resp: 320385

Ion Ratio Lower Upper

65 100

67 52.8 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: VY023414.D

Acq: 09 Oct 2025 11:47

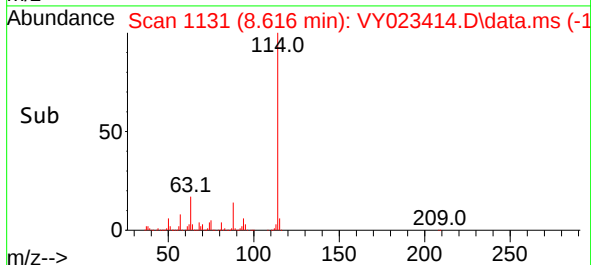
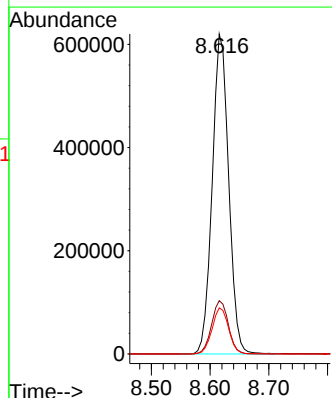
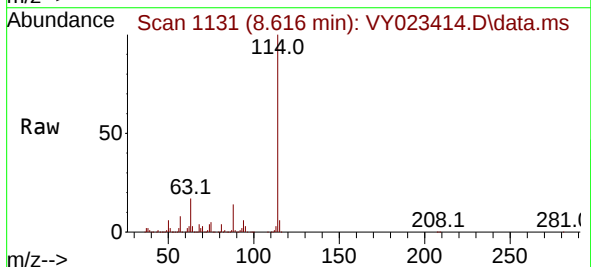
Tgt Ion:114 Resp: 1205387

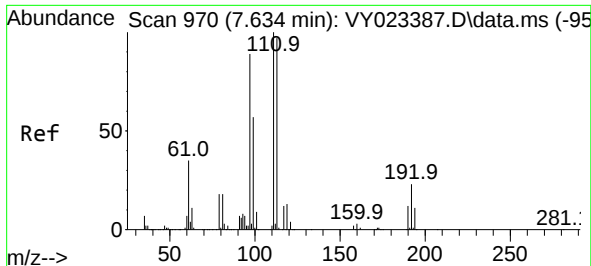
Ion Ratio Lower Upper

114 100

63 16.6 0.0 34.2

88 14.4 0.0 28.4

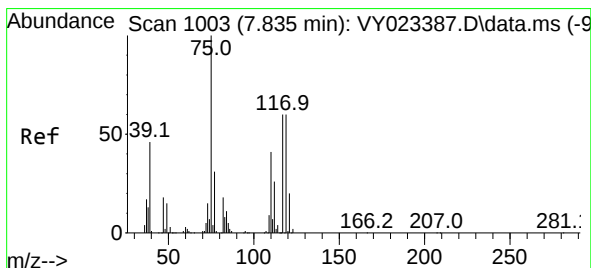
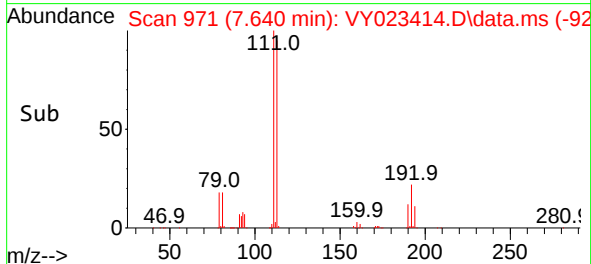
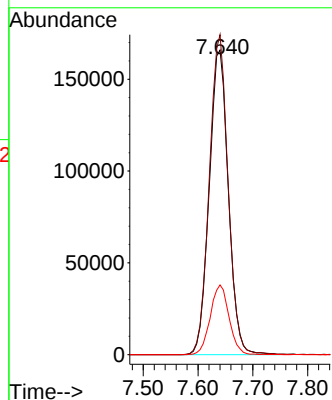
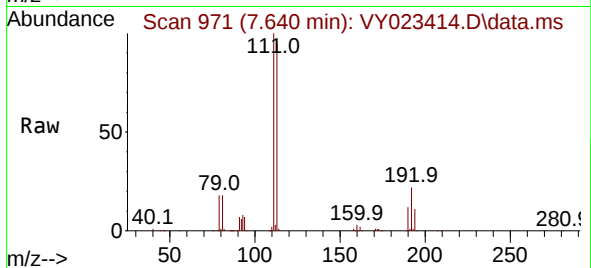




#35
Dibromofluoromethane
Concen: 54.190 ug/l
RT: 7.640 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

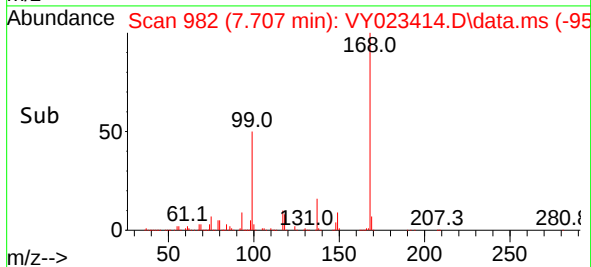
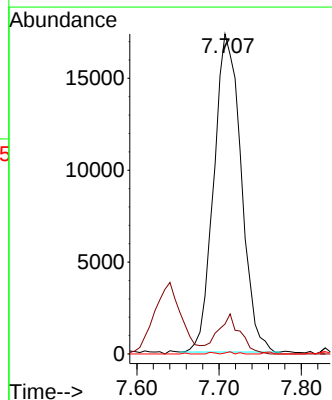
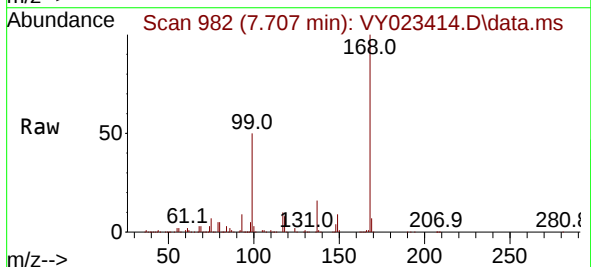
Instrument :
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VNJ-207

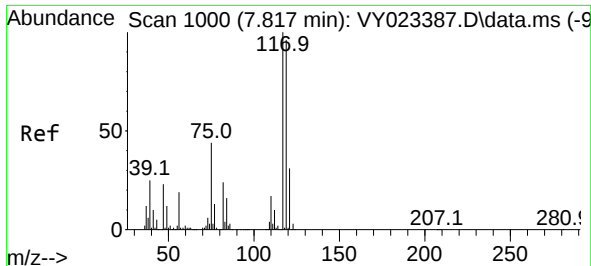
Tgt Ion:113 Resp: 401363
Ion Ratio Lower Upper
113 100
111 103.4 81.8 122.6
192 22.5 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.076 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 75 Resp: 39966
Ion Ratio Lower Upper
75 100
110 10.5 19.9 59.7#
77 0.2 25.0 37.6#

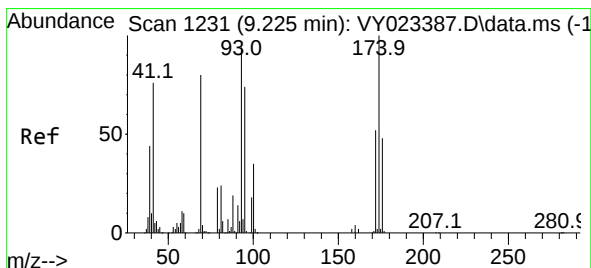
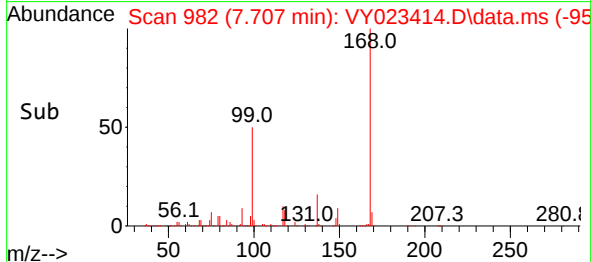
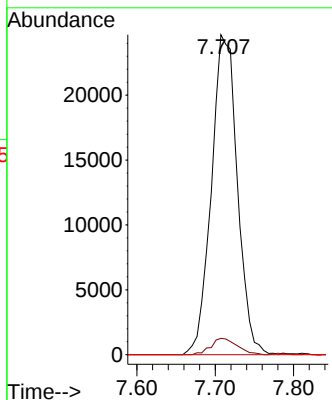
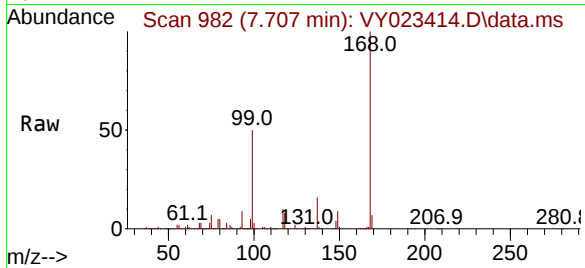




#38
Carbon Tetrachloride
Concen: 4.778 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

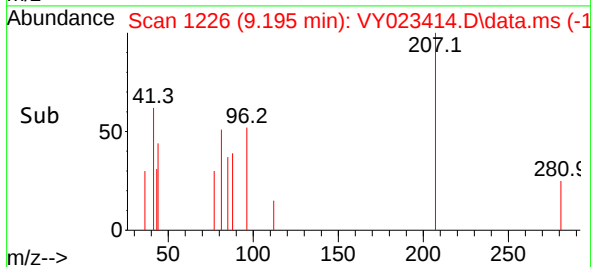
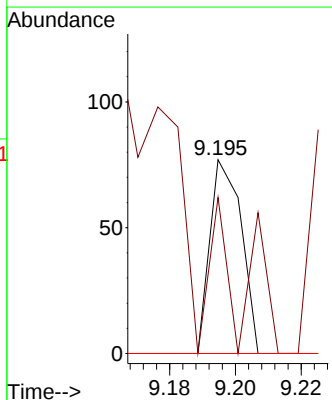
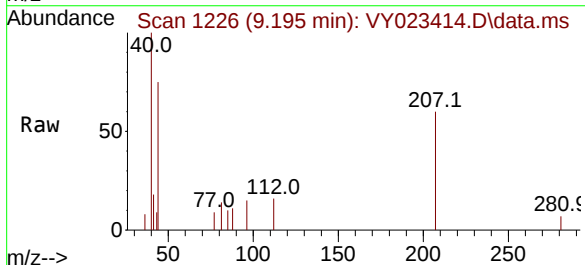
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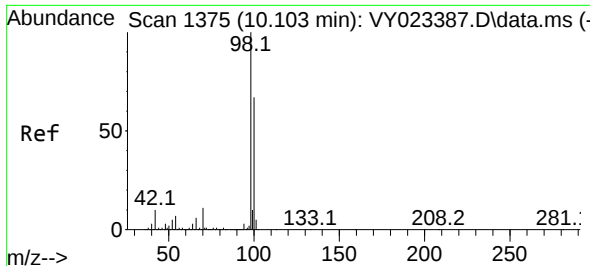
Tgt Ion:117 Resp: 56813
Ion Ratio Lower Upper
117 100
119 5.1 76.8 115.2#
121 0.0 24.5 36.7#



#49
1,4-Dioxane
Concen: 1.014 ug/l
RT: 9.195 min Scan# 1226
Delta R.T. -0.031 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 0.0 21.8 32.8#
58 0.0 46.8 70.2#

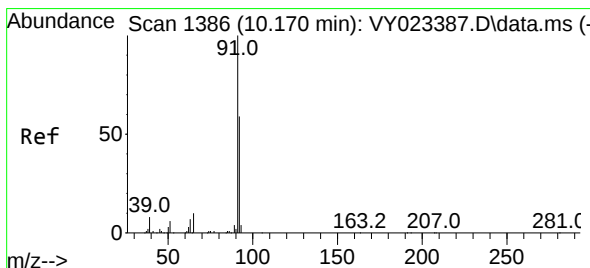
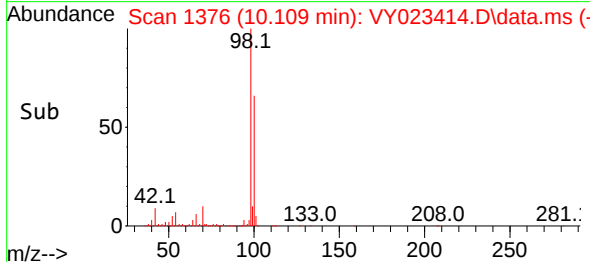
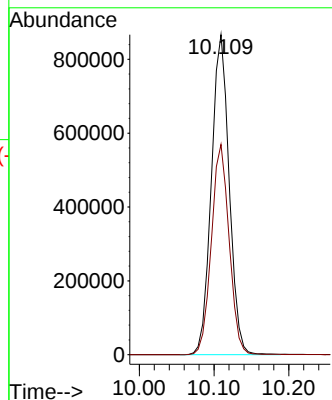
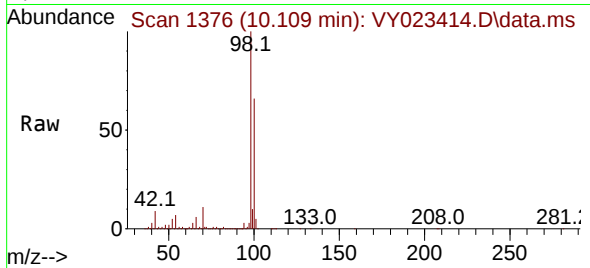




#50
Toluene-d8
Concen: 52.137 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

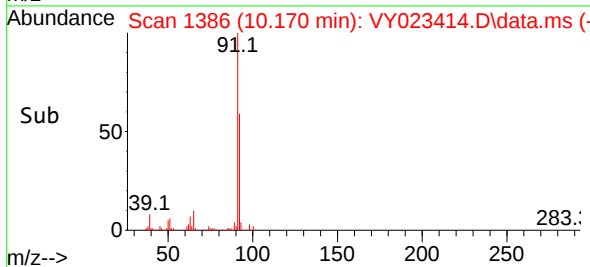
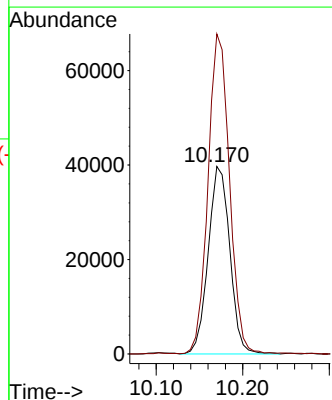
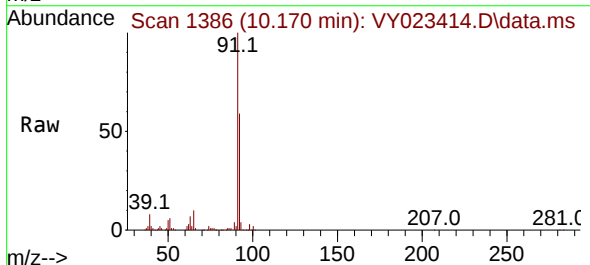
Instrument :
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ClientSampleId :
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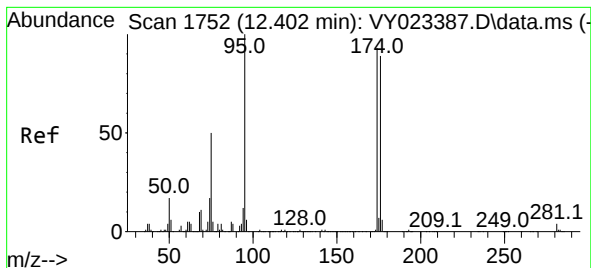
Tgt Ion: 98 Resp: 1438063
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4



#52
Toluene
Concen: 3.414 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 92 Resp: 68841
Ion Ratio Lower Upper
92 100
91 168.7 136.4 204.6





#62

4-Bromofluorobenzene

Concen: 52.508 ug/l

RT: 12.408 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023414.D

Acq: 09 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-207

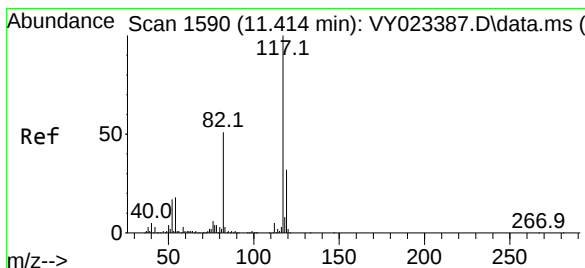
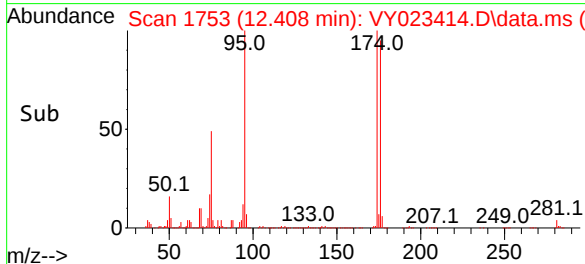
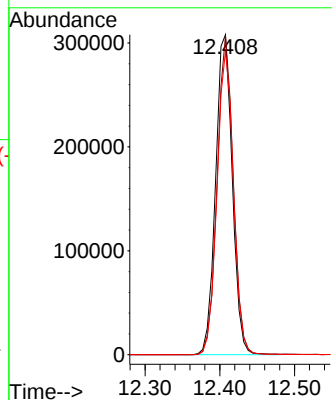
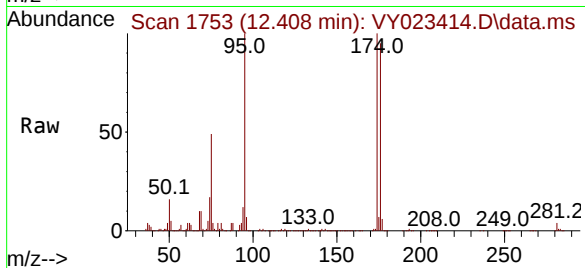
Tgt Ion: 95 Resp: 478158

Ion Ratio Lower Upper

95 100

174 96.6 0.0 192.8

176 93.4 0.0 187.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY023414.D

Acq: 09 Oct 2025 11:47

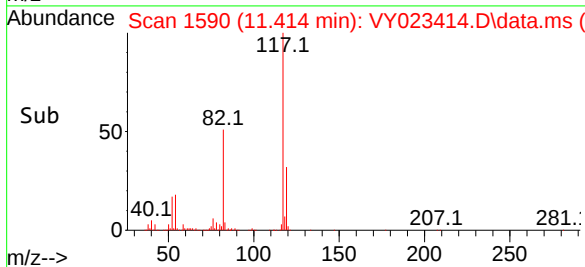
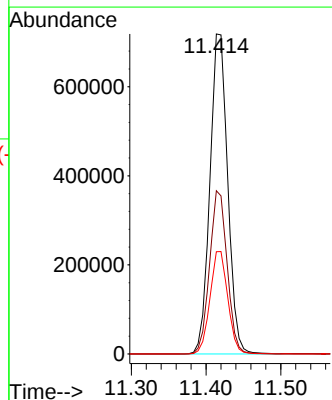
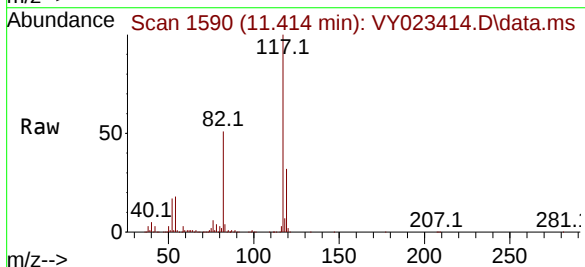
Tgt Ion: 117 Resp: 1186929

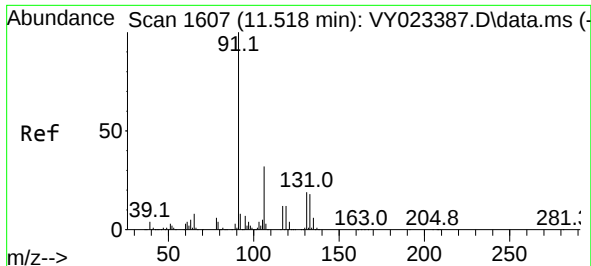
Ion Ratio Lower Upper

117 100

82 51.0 41.0 61.4

119 32.0 25.6 38.4





#67

Ethyl Benzene

Concen: 1.033 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.000 min

Lab File: VY023414.D

Acq: 09 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

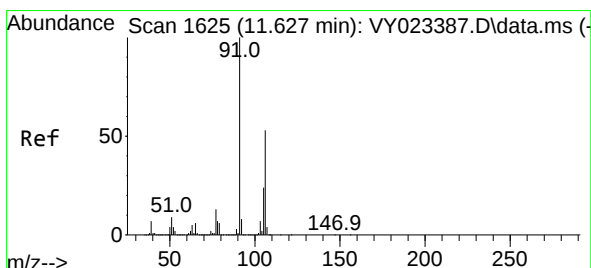
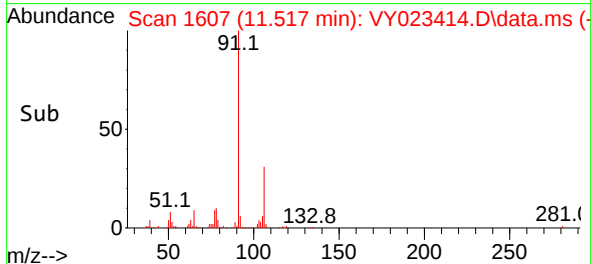
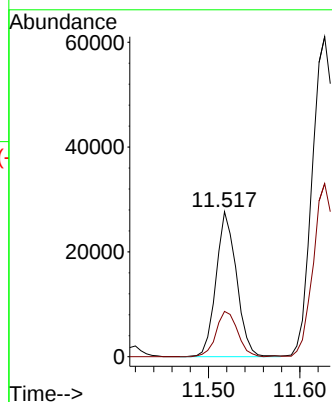
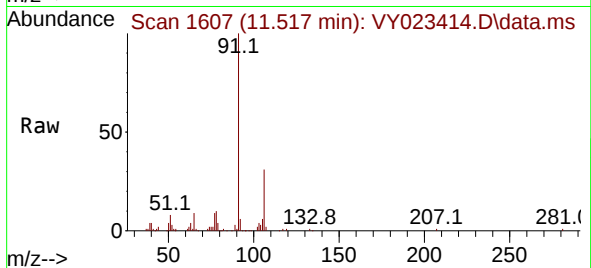
VNJ-207

Tgt Ion: 91 Resp: 43167

Ion Ratio Lower Upper

91 100

106 31.3 25.8 38.8



#68

m/p-Xylenes

Concen: 3.455 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.000 min

Lab File: VY023414.D

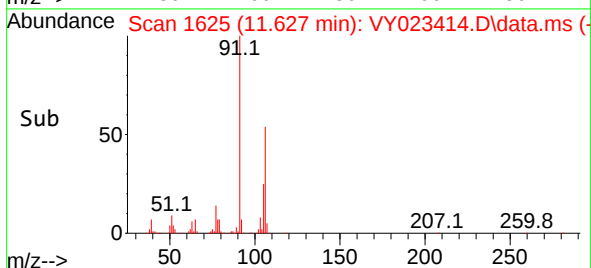
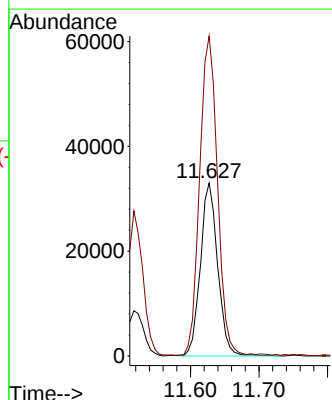
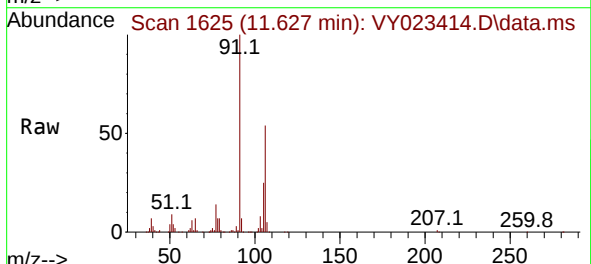
Acq: 09 Oct 2025 11:47

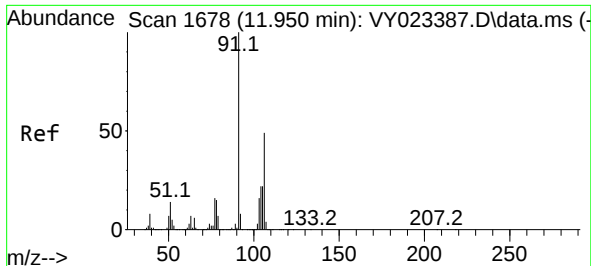
Tgt Ion:106 Resp: 57903

Ion Ratio Lower Upper

106 100

91 190.1 152.6 229.0

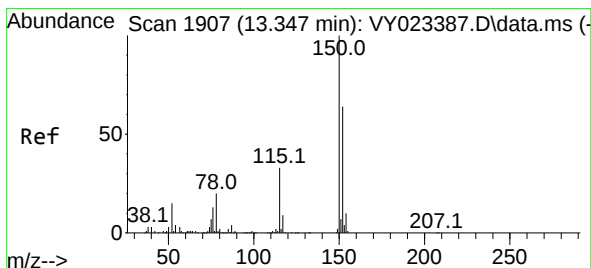
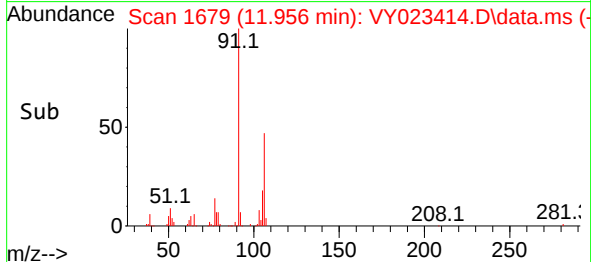
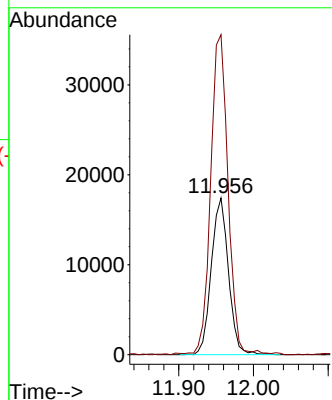
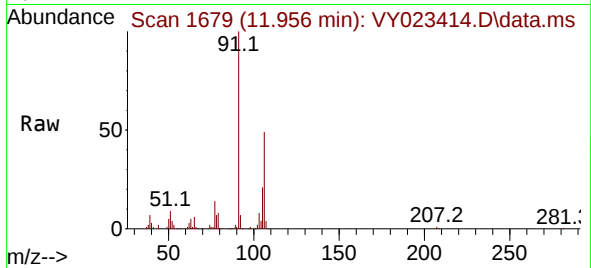




#69
o-Xylene
Concen: 1.771 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

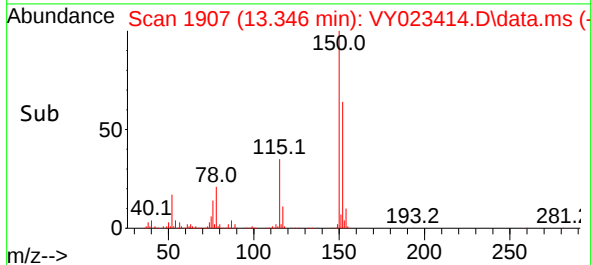
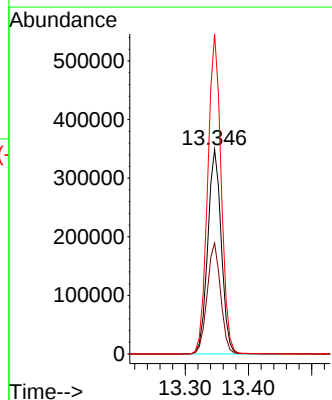
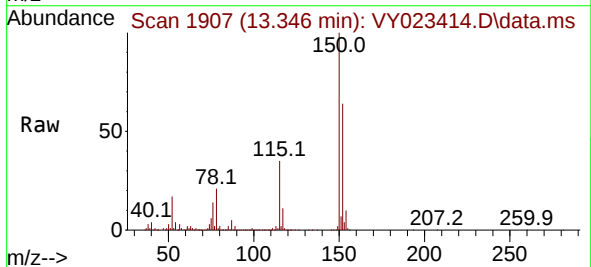
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207

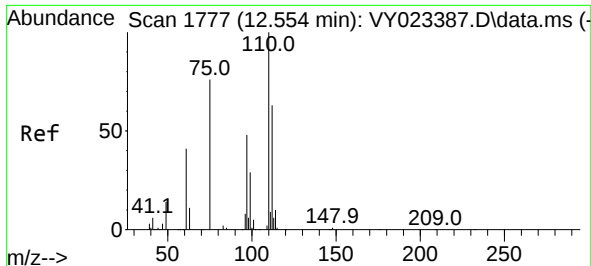
Tgt Ion:106 Resp: 27838
Ion Ratio Lower Upper
106 100
91 207.6 101.4 304.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion:152 Resp: 518747
Ion Ratio Lower Upper
152 100
115 54.3 27.1 81.2
150 155.9 0.0 347.4

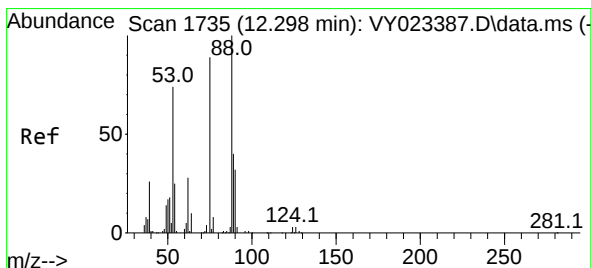
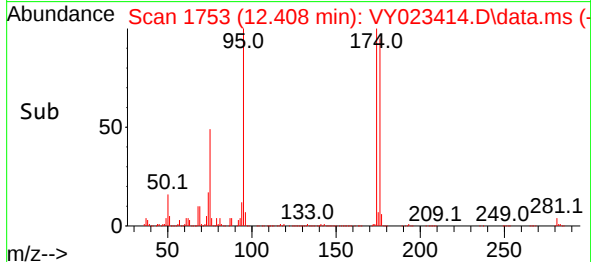
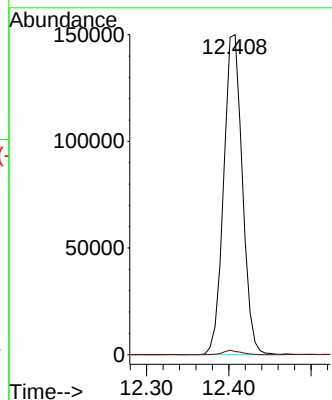
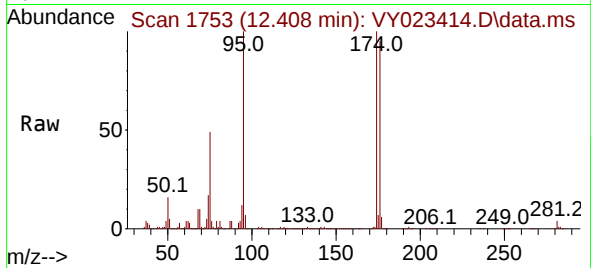




#76
1,2,3-Trichloropropane
Concen: 51.652 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207

Tgt Ion: 75 Resp: 236398
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 126.661 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023414.D
Acq: 09 Oct 2025 11:47

Tgt Ion: 75 Resp: 236398
Ion Ratio Lower Upper
75 100
53 0.1 68.6 102.8#
89 0.0 39.0 58.4#

