

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
 Data File : VY022398.D
 Acq On : 22 May 2025 16:06
 Operator : SY/MD
 Sample : Q2100-02
 Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-22

Quant Time: May 23 03:39:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

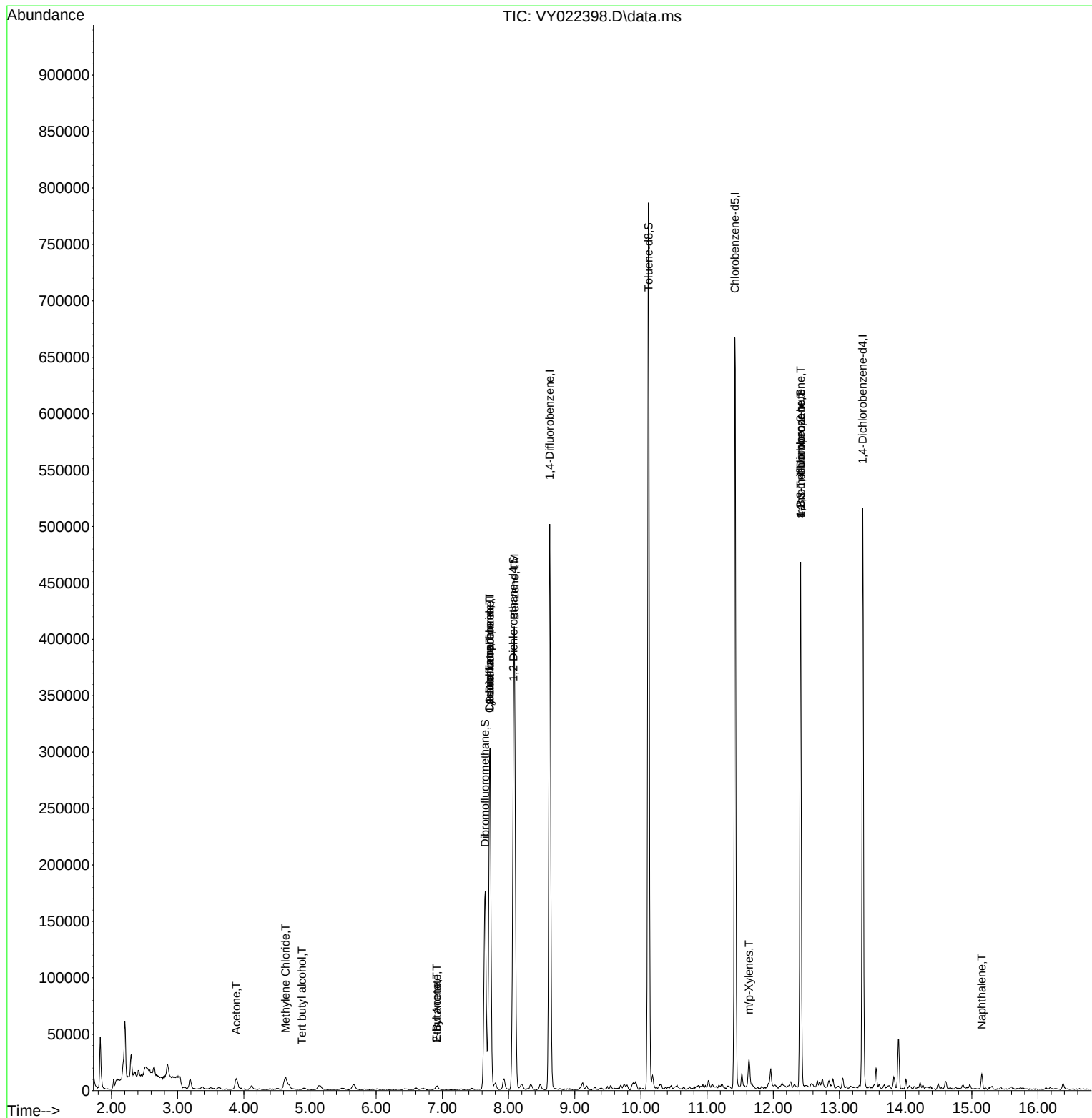
Internal Standards						
1) Pentafluorobenzene	7.719	168	231359	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	414060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	325678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	119664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	117920	46.636	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.280%		
35) Dibromofluoromethane	7.646	113	120139	48.613	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.220%		
50) Toluene-d8	10.115	98	492469	48.655	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.320%		
62) 4-Bromofluorobenzene	12.414	95	122725	38.254	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	76.500%		
Target Compounds						Qvalue
11) Tert butyl alcohol	4.878	59	337	1.745	ug/l #	100
16) Acetone	3.885	43	18091	38.157	ug/l #	83
20) Methylene Chloride	4.628	84	6927	2.261	ug/l #	90
25) 2-Butanone	6.915	43	5759	7.262	ug/l #	84
31) Cyclohexane	7.713	56	7551	1.476	ug/l #	30
36) 1,1-Dichloropropene	7.713	75	19811	4.867	ug/l #	51
37) Ethyl Acetate	6.915	43	5759	2.940	ug/l #	70
38) Carbon Tetrachloride	7.713	117	23536	5.586	ug/l #	16
40) Benzene	8.091	78	312744	25.917	ug/l	98
68) m/p-Xylenes	11.633	106	8109	1.564	ug/l	87
76) 1,2,3-Trichloropropane	12.414	75	71340	58.846	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.414	75	71340	119.207	ug/l #	12
95) Naphthalene	15.151	128	10473	2.632	ug/l	98

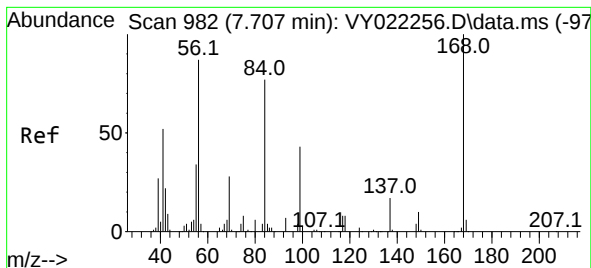
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.719 min Scan# 9

Delta R.T. 0.012 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

Instrument :

MSVOA_Y

ClientSampleId :

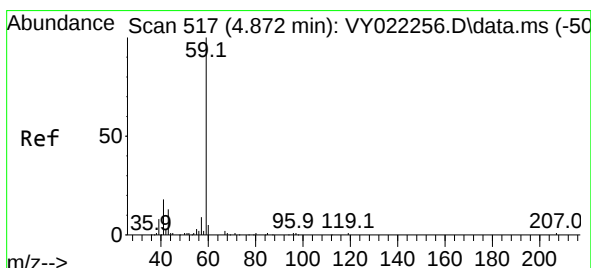
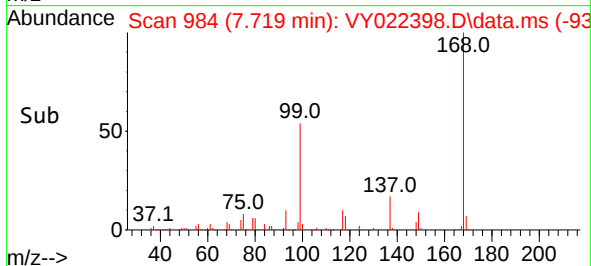
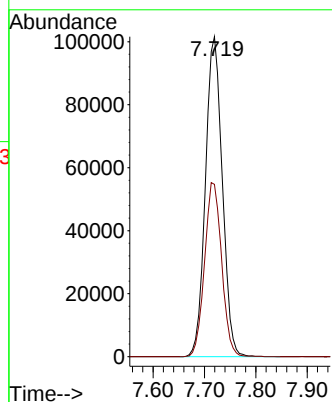
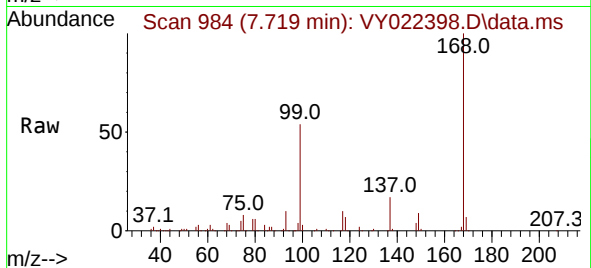
TP-22

Tgt Ion:168 Resp: 231359

Ion Ratio Lower Upper

168 100

99 53.9 44.2 66.4



#11

Tert butyl alcohol

Concen: 1.745 ug/l

RT: 4.878 min Scan# 518

Delta R.T. 0.006 min

Lab File: VY022398.D

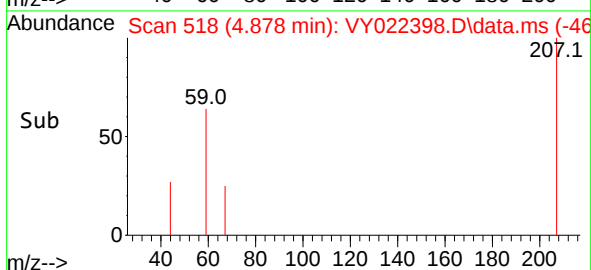
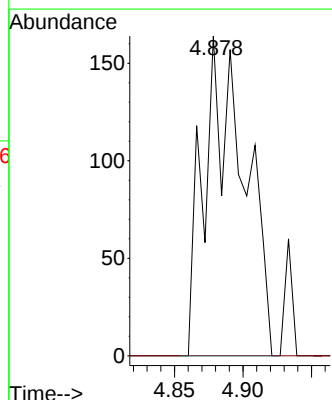
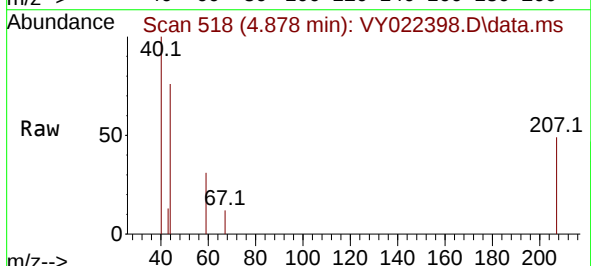
Acq: 22 May 2025 16:06

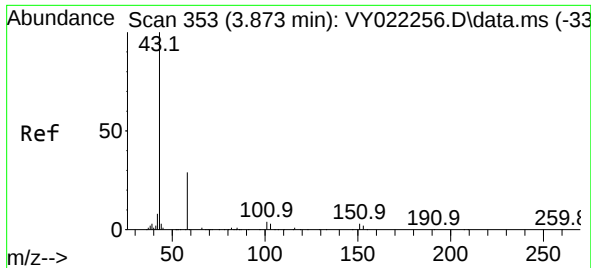
Tgt Ion: 59 Resp: 337

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0





#16

Acetone

Concen: 38.157 ug/l

RT: 3.885 min Scan# 3

Delta R.T. 0.012 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

Instrument :

MSVOA_Y

ClientSampleId :

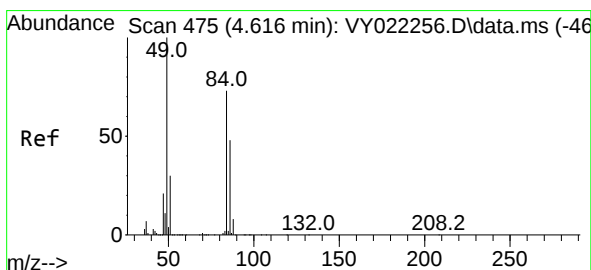
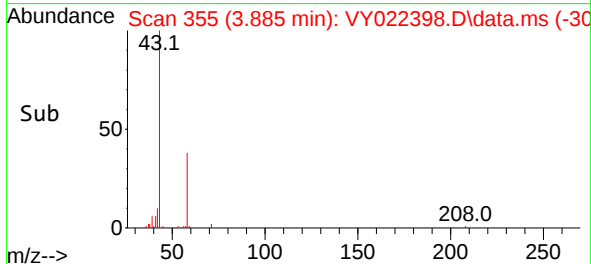
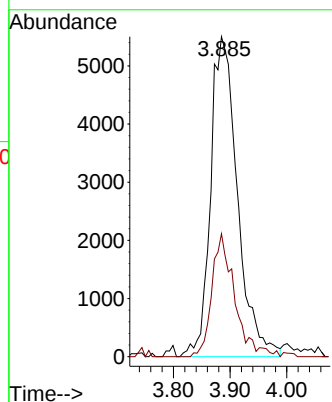
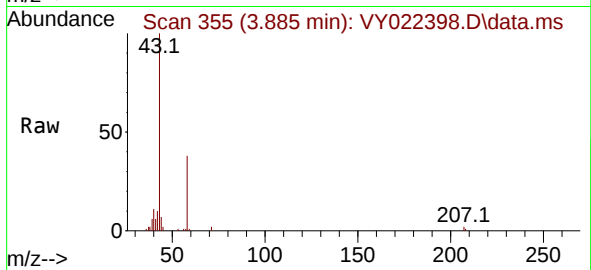
TP-22

Tgt Ion: 43 Resp: 18091

Ion Ratio Lower Upper

43 100

58 38.4 23.6 35.4#



#20

Methylene Chloride

Concen: 2.261 ug/l

RT: 4.628 min Scan# 477

Delta R.T. 0.012 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

Tgt Ion: 84 Resp: 6927

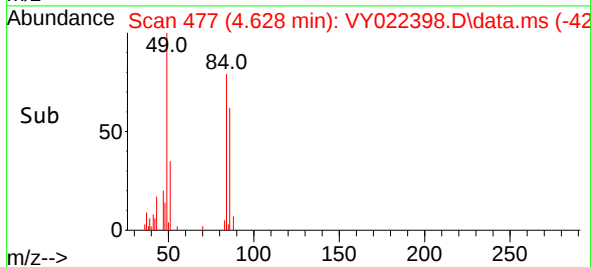
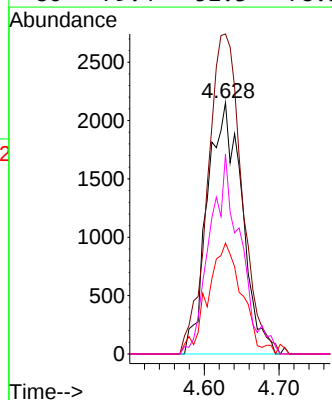
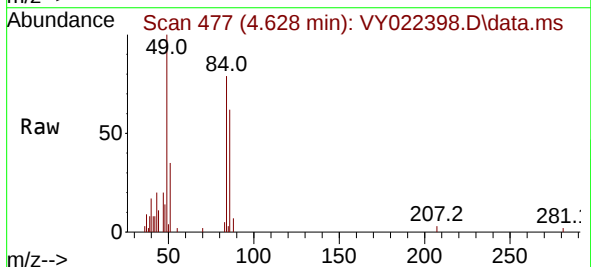
Ion Ratio Lower Upper

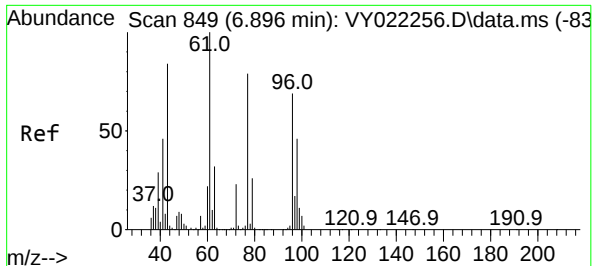
84 100

49 127.3 109.6 164.4

51 44.1 32.4 48.6

86 79.4 52.3 78.5#





#25

2-Butanone

Concen: 7.262 ug/l

RT: 6.915 min Scan# 81

Delta R.T. 0.018 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

Instrument :

MSVOA_Y

ClientSampleId :

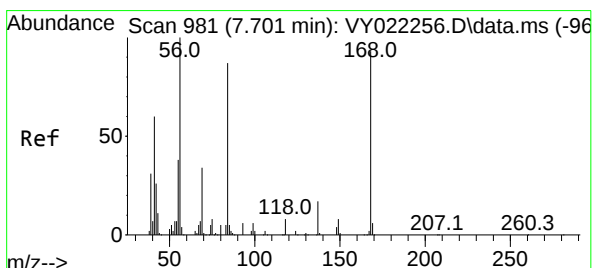
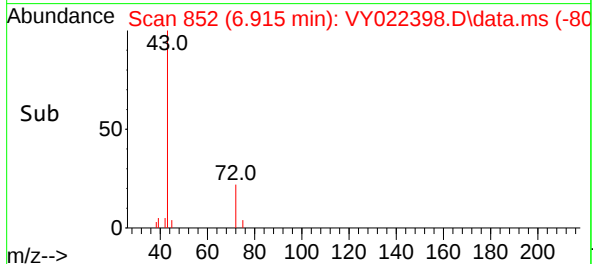
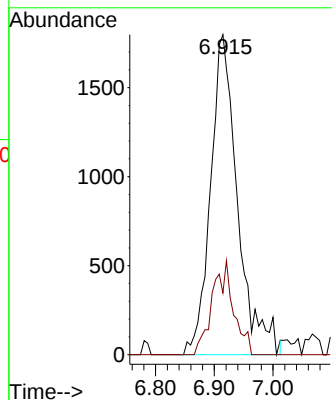
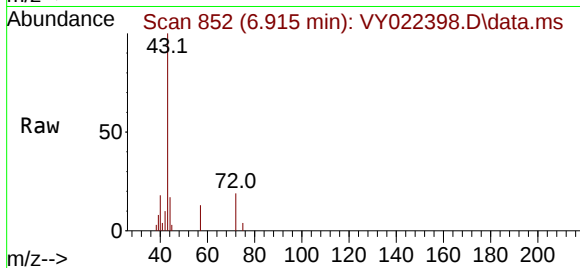
TP-22

Tgt Ion: 43 Resp: 5759

Ion Ratio Lower Upper

43 100

72 19.3 22.1 33.1#



#31

Cyclohexane

Concen: 1.476 ug/l

RT: 7.713 min Scan# 983

Delta R.T. 0.012 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

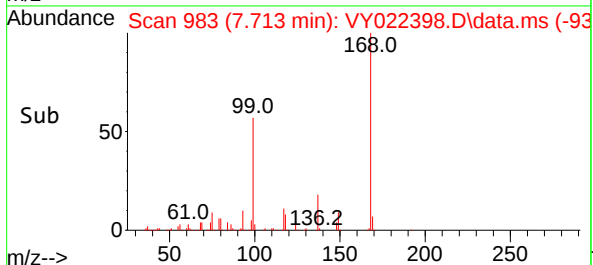
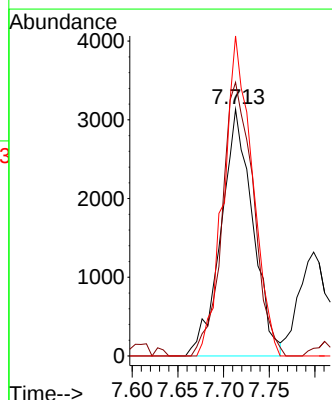
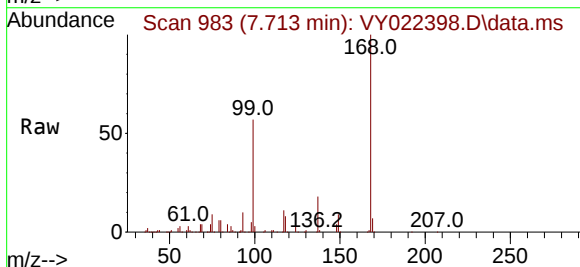
Tgt Ion: 56 Resp: 7551

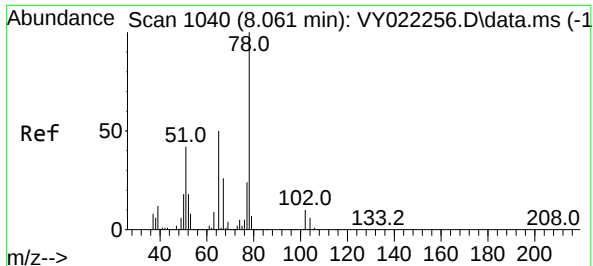
Ion Ratio Lower Upper

56 100

69 110.9 27.4 41.2#

84 129.7 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 46.636 ug/l

RT: 8.073 min Scan# 110

Delta R.T. 0.012 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

Instrument :

MSVOA_Y

ClientSampleId :

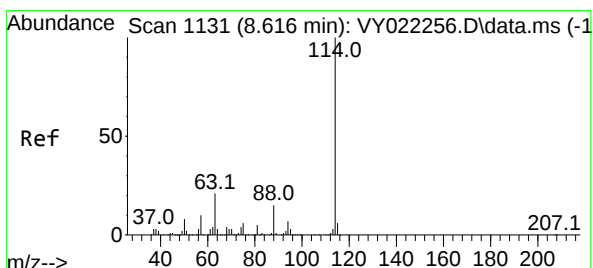
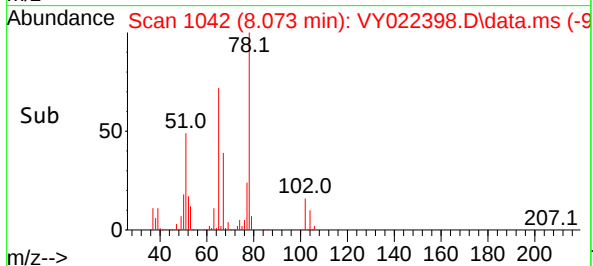
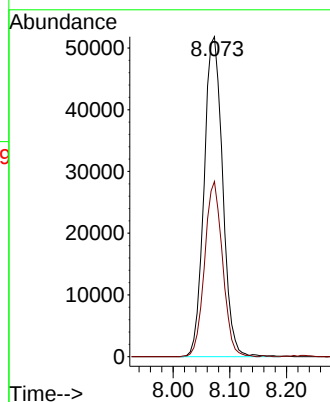
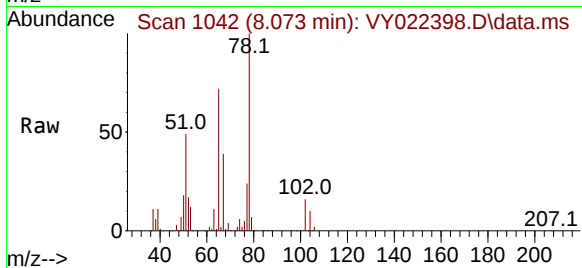
TP-22

Tgt Ion: 65 Resp: 117920

Ion Ratio Lower Upper

65 100

67 52.9 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

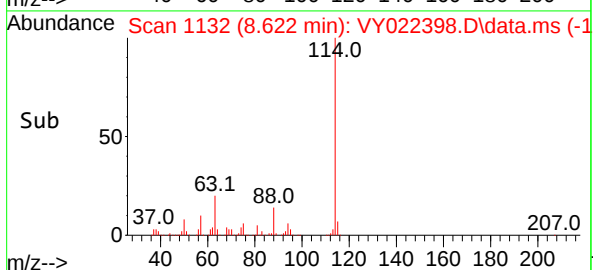
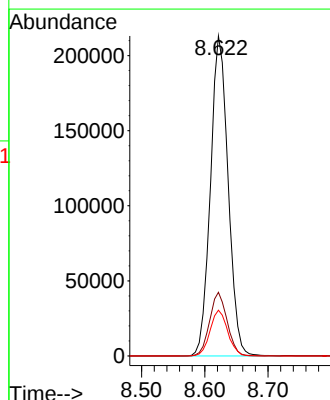
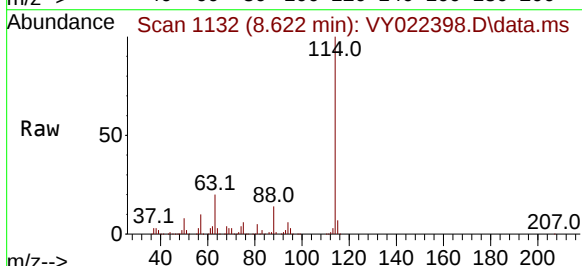
Tgt Ion: 114 Resp: 414060

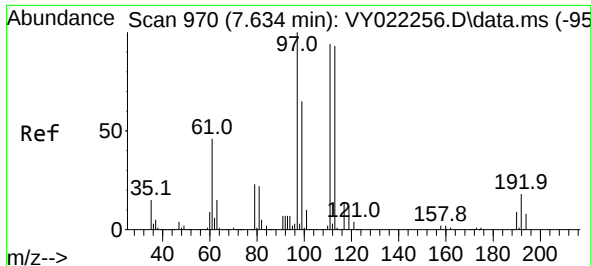
Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.0

88 14.3 0.0 29.4

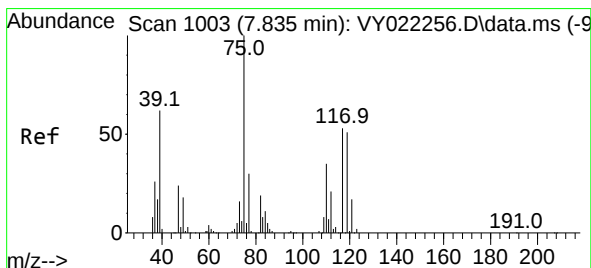
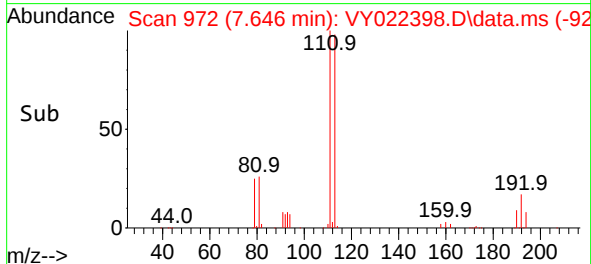
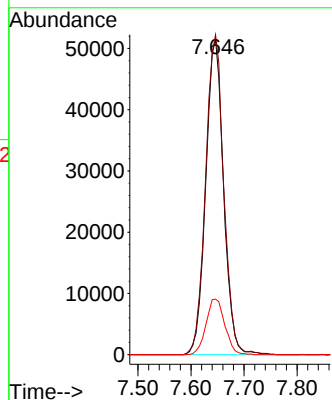
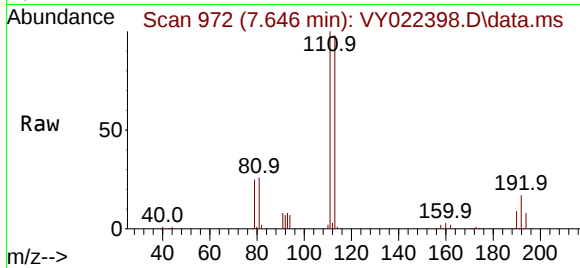




#35
Dibromofluoromethane
Concen: 48.613 ug/l
RT: 7.646 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

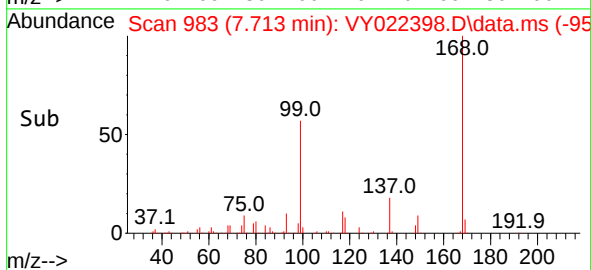
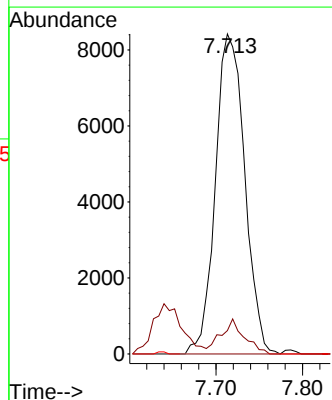
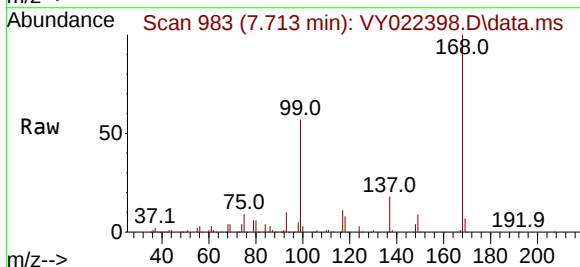
Instrument :
MSVOA_Y
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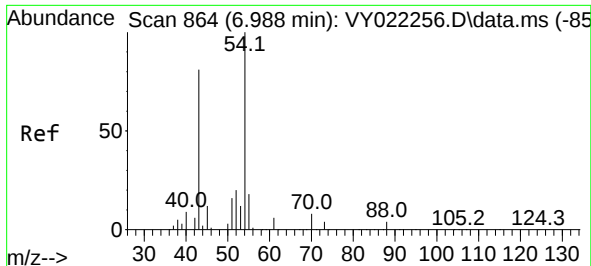
Tgt Ion:113 Resp: 120139
Ion Ratio Lower Upper
113 100
111 103.6 82.6 123.8
192 18.6 15.2 22.8



#36
1,1-Dichloropropene
Concen: 4.867 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 75 Resp: 19811
Ion Ratio Lower Upper
75 100
110 8.7 16.6 49.8#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 2.940 ug/l

RT: 6.915 min Scan# 81

Delta R.T. -0.073 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

Instrument :

MSVOA_Y

ClientSampleId :

TP-22

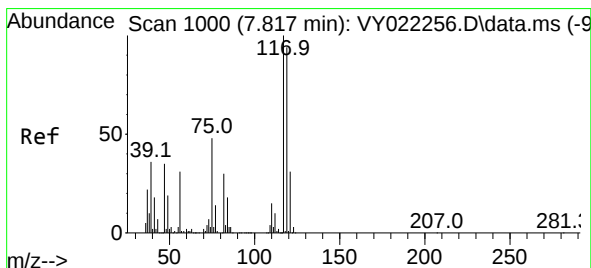
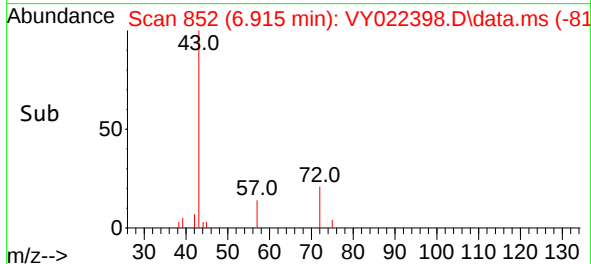
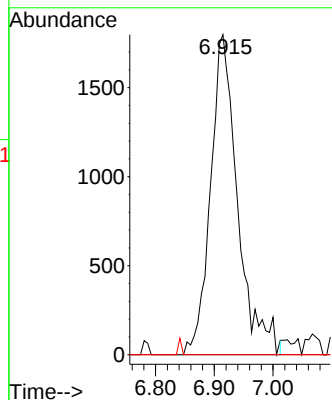
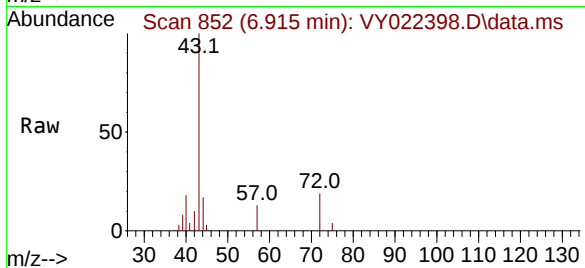
Tgt Ion: 43 Resp: 5759

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

70 0.0 7.6 11.4#



#38

Carbon Tetrachloride

Concen: 5.586 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY022398.D

Acq: 22 May 2025 16:06

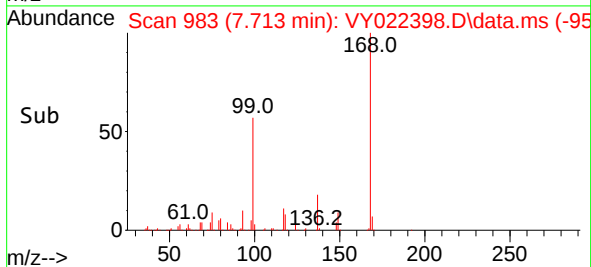
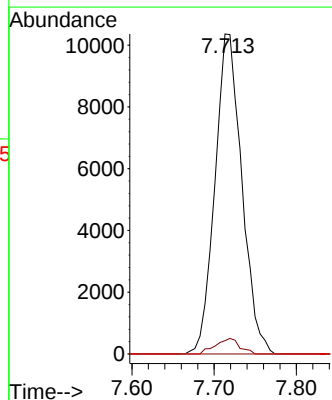
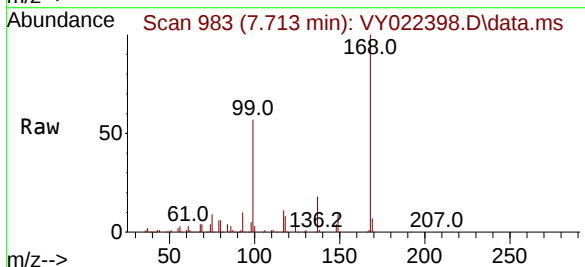
Tgt Ion: 117 Resp: 23536

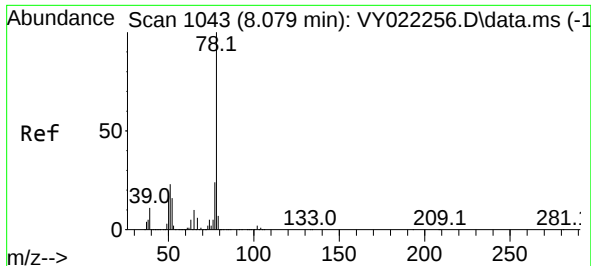
Ion Ratio Lower Upper

117 100

119 4.2 75.3 112.9#

121 0.0 24.7 37.1#

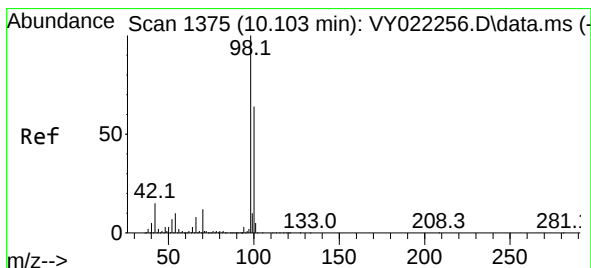
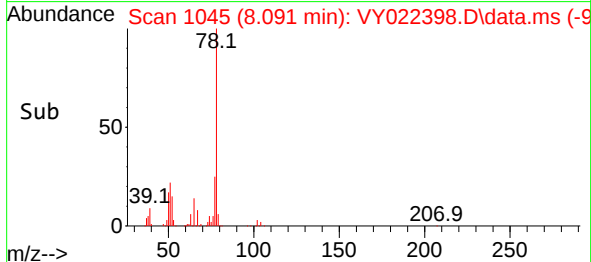
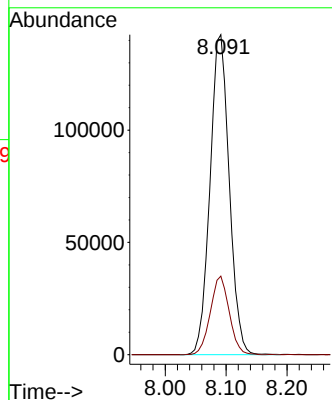
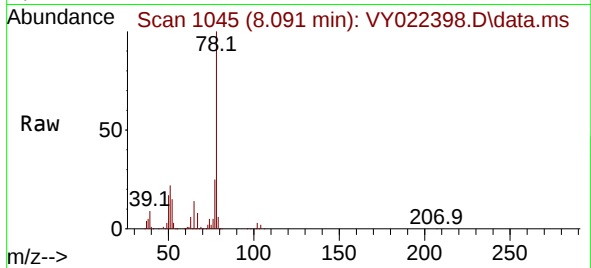




#40
Benzene
Concen: 25.917 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

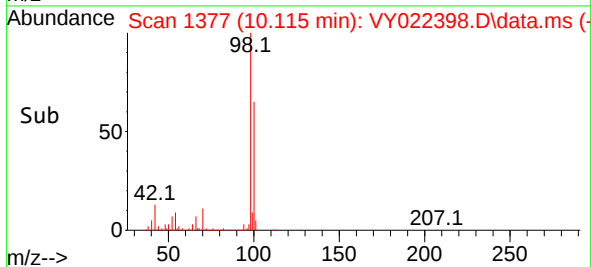
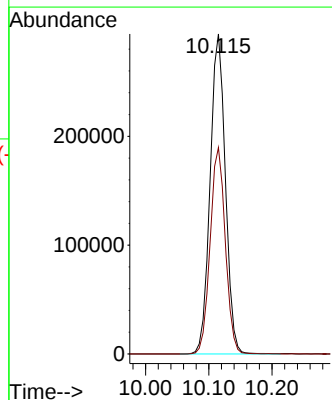
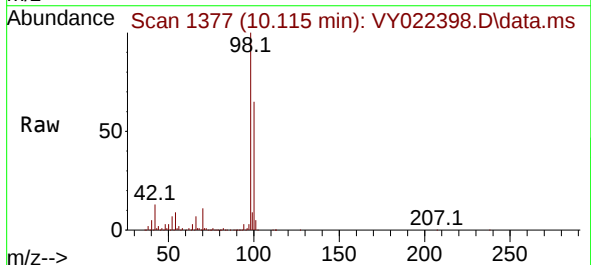
Instrument :
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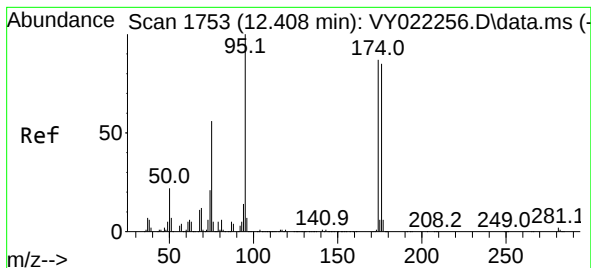
Tgt Ion: 78 Resp: 312744
Ion Ratio Lower Upper
78 100
77 24.6 18.9 28.3



#50
Toluene-d8
Concen: 48.655 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 98 Resp: 492469
Ion Ratio Lower Upper
98 100
100 64.1 51.8 77.8

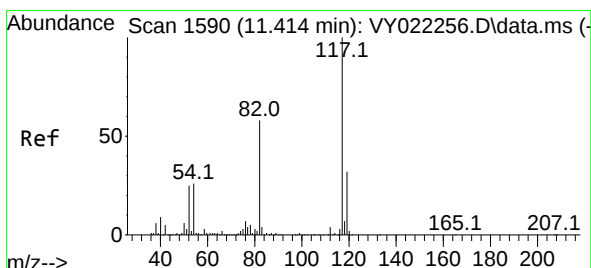
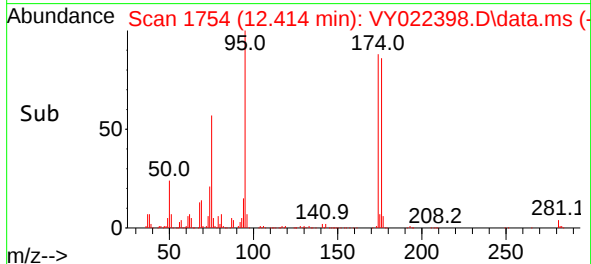
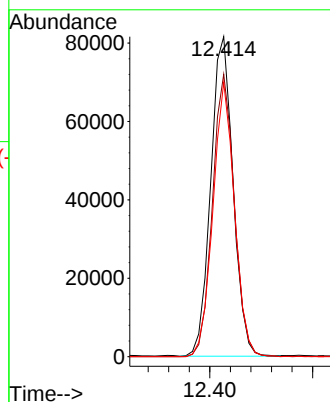
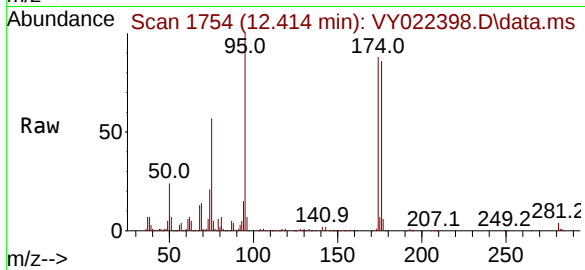




#62
4-Bromofluorobenzene
Concen: 38.254 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

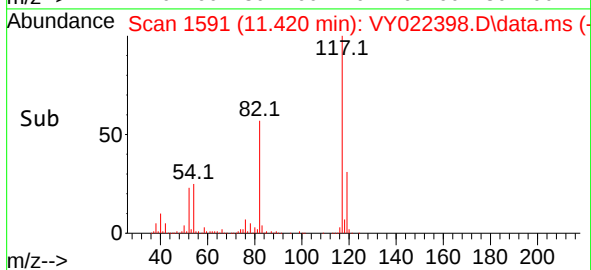
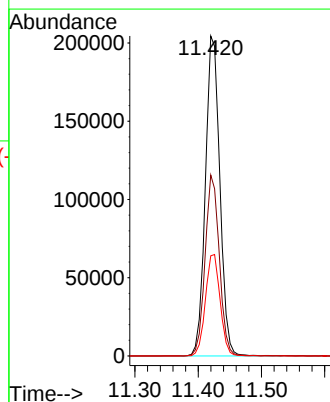
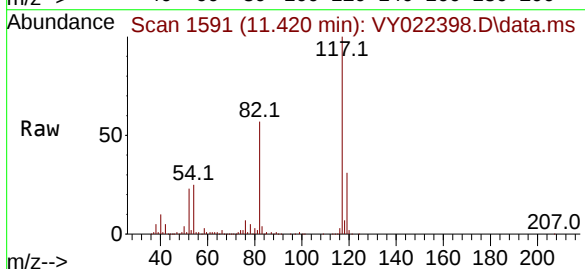
Instrument :
MSVOA_Y
ClientSampleId :
TP-22

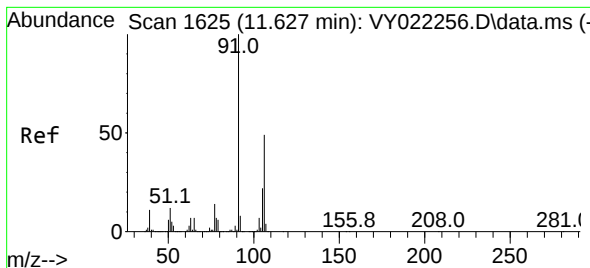
Tgt Ion: 95 Resp: 122725
Ion Ratio Lower Upper
95 100
174 86.6 0.0 166.8
176 82.9 0.0 160.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 117 Resp: 325678
Ion Ratio Lower Upper
117 100
82 56.5 46.6 70.0
119 31.3 25.8 38.6

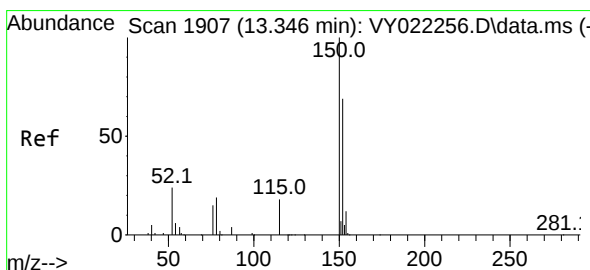
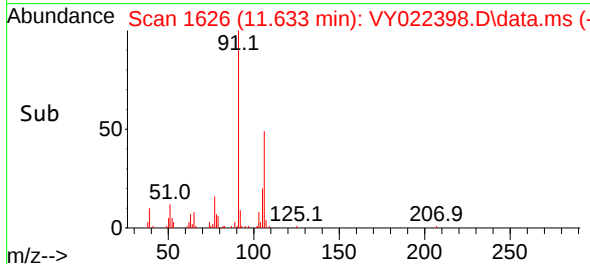
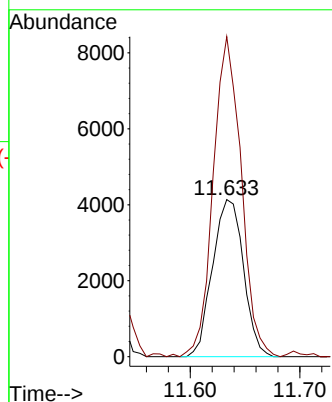
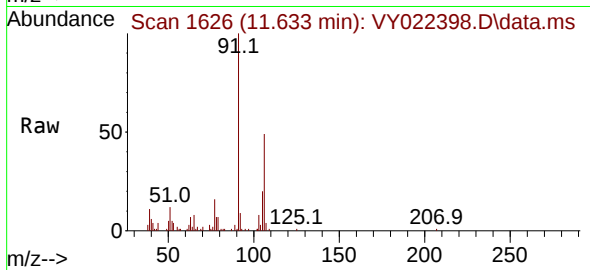




#68
m/p-Xylenes
Concen: 1.564 ug/l
RT: 11.633 min Scan# 1109
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

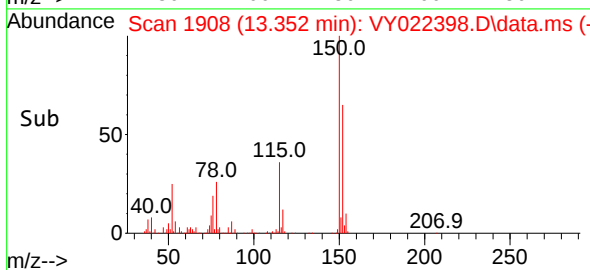
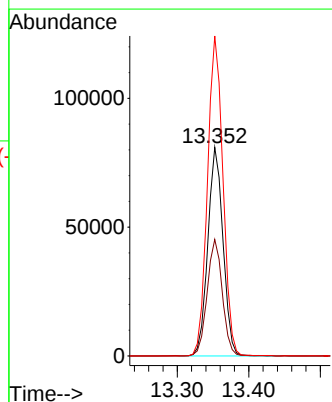
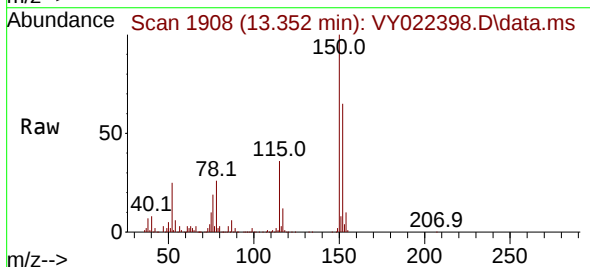
Instrument :
MSVOA_Y
ClientSampleId :
TP-22

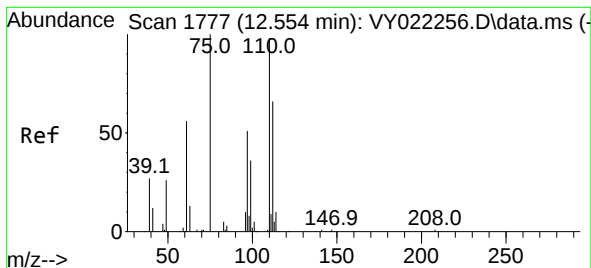
Tgt Ion:106 Resp: 8109
Ion Ratio Lower Upper
106 100
91 184.4 163.0 244.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion:152 Resp: 119664
Ion Ratio Lower Upper
152 100
115 55.9 29.4 88.2
150 156.1 0.0 353.8

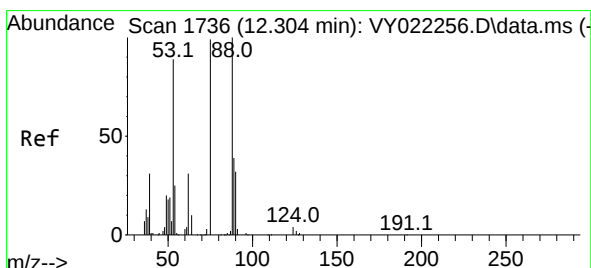
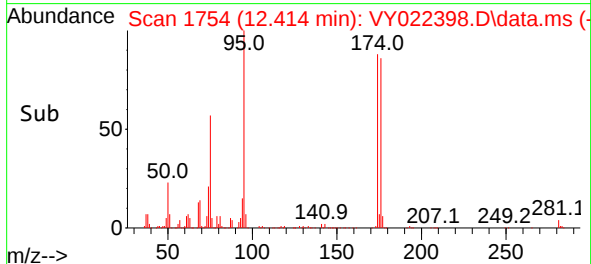
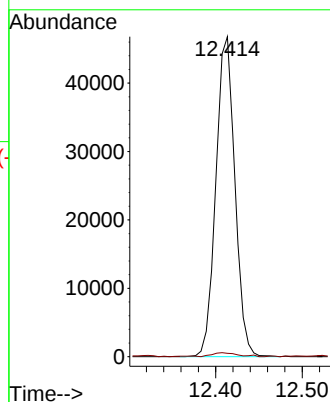
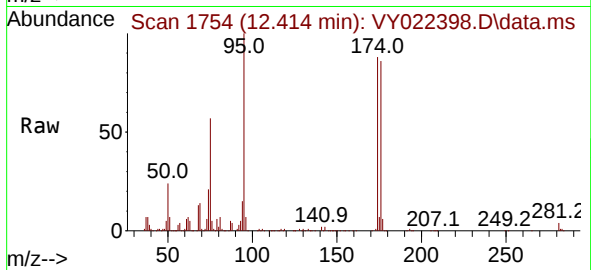




#76
 1,2,3-Trichloropropane
 Concen: 58.846 ug/l
 RT: 12.414 min Scan# 1754
 Delta R.T. -0.140 min
 Lab File: VY022398.D
 Acq: 22 May 2025 16:06

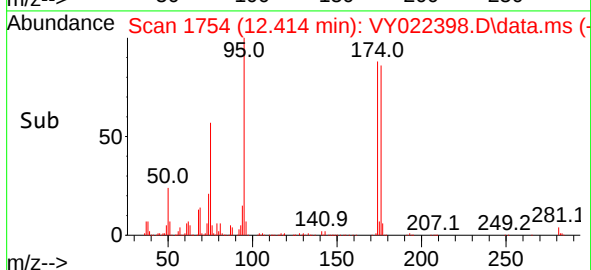
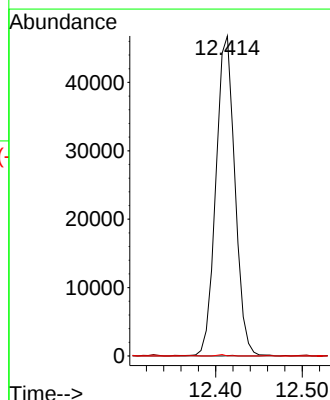
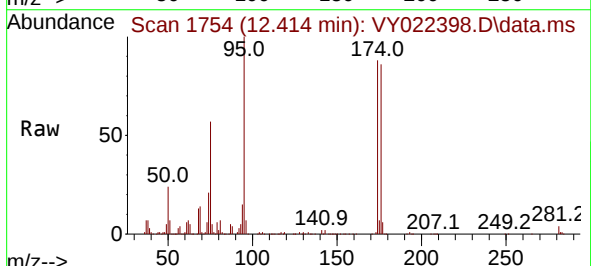
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-22

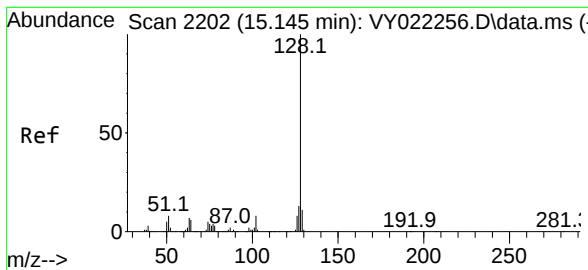
Tgt Ion: 75 Resp: 71340
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.207 ug/l
 RT: 12.414 min Scan# 1754
 Delta R.T. 0.110 min
 Lab File: VY022398.D
 Acq: 22 May 2025 16:06

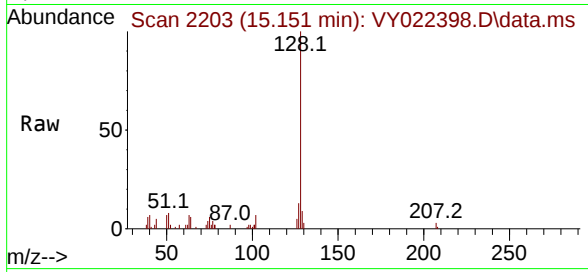
Tgt Ion: 75 Resp: 71340
 Ion Ratio Lower Upper
 75 100
 53 0.1 75.8 113.8#
 89 0.2 36.2 54.2#





#95
Naphthalene
Concen: 2.632 ug/l
RT: 15.151 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22



Tgt Ion:	128	Resp:	10473
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.2
129	11.8	8.8	13.2

