

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
 Data File : VY023153.D
 Acq On : 19 Aug 2025 16:02
 Operator : SY/MD
 Sample : Q2879-11
 Misc : 3.96g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OU4-TS-GRILLO-TSCP08-081425

Quant Time: Aug 20 01:32:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

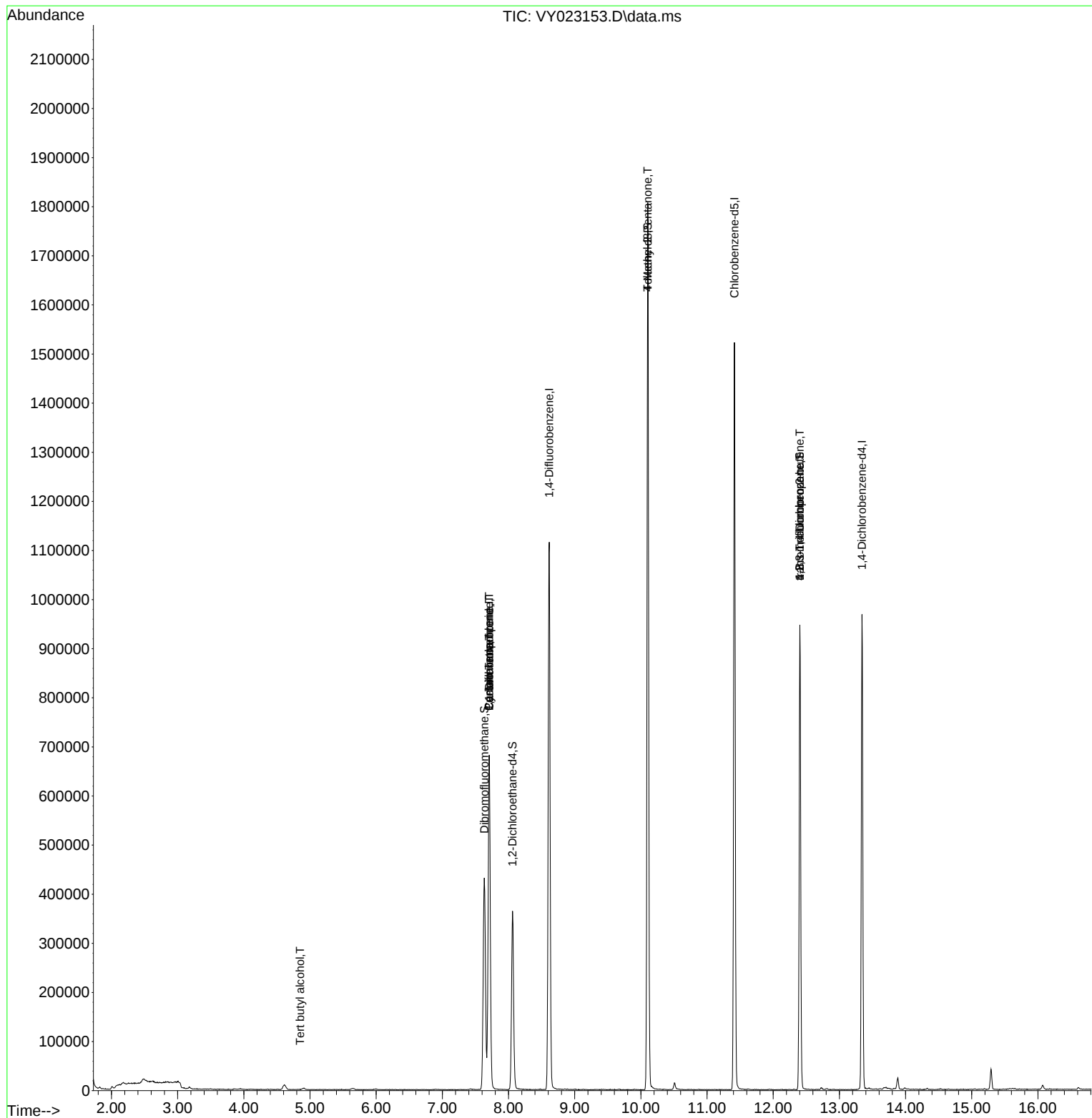
Internal Standards						
1) Pentafluorobenzene	7.707	168	527740	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	988192	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	796376	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	251001	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	281131	55.894	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.780%			
35) Dibromofluoromethane	7.634	113	311495	52.679	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.360%			
50) Toluene-d8	10.103	98	1174381	50.840	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.680%			
62) 4-Bromofluorobenzene	12.402	95	282189	37.986	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.980%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.848	59	430	1.248	ug/l #	71
20) Methylene Chloride	4.610	84	7464	Below Cal		92
31) Cyclohexane	7.707	56	11089	1.184	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	40748	4.637	ug/l #	50
38) Carbon Tetrachloride	7.707	117	52637	5.515	ug/l #	16
51) 4-Methyl-2-Pentanone	10.103	43	4812	1.250	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	146307	60.397	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	146307	146.202	ug/l #	14

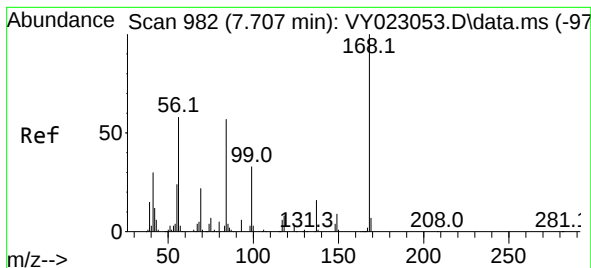
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

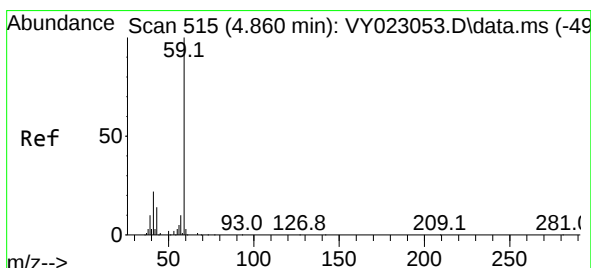
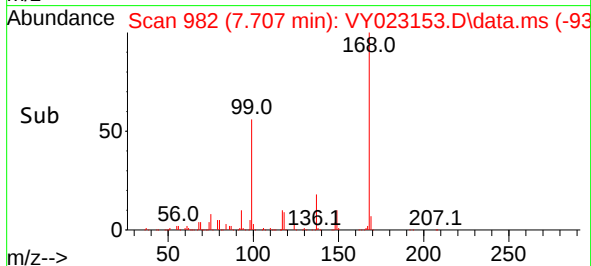
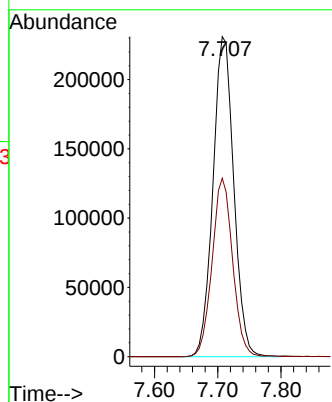
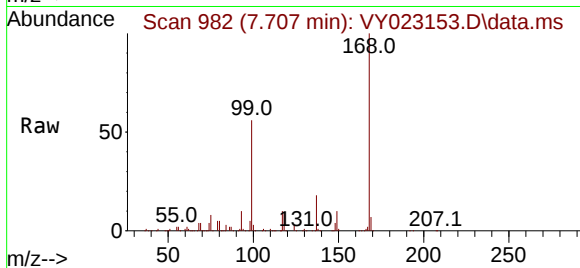
OU4-TS-GRILLO-TSCP08-081425

Tgt Ion:168 Resp: 527740

Ion Ratio Lower Upper

168 100

99 55.8 42.8 64.2



#11

Tert butyl alcohol

Concen: 1.248 ug/l

RT: 4.848 min Scan# 513

Delta R.T. -0.012 min

Lab File: VY023153.D

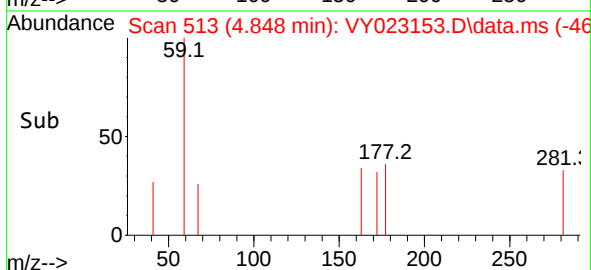
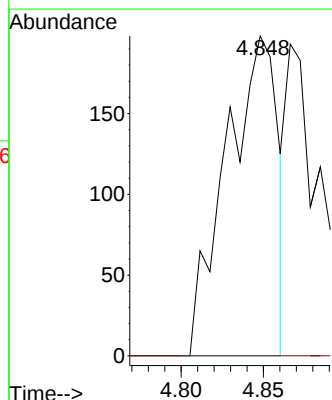
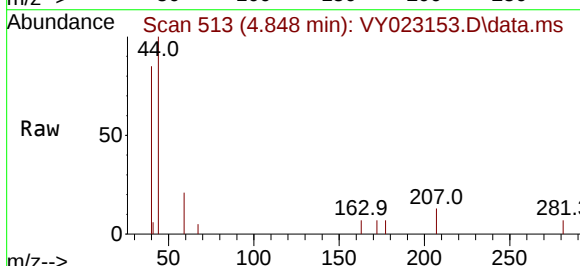
Acq: 19 Aug 2025 16:02

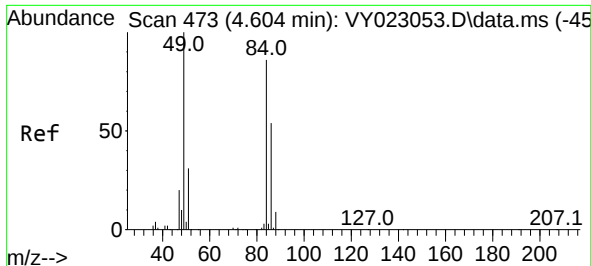
Tgt Ion: 59 Resp: 430

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.610 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY023153.D

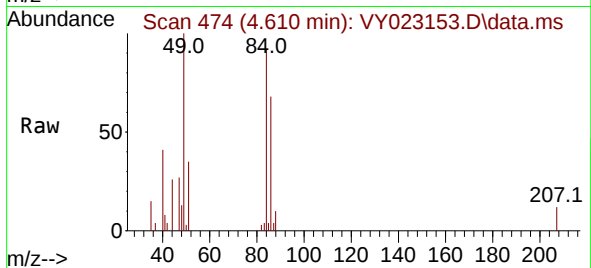
Acq: 19 Aug 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-GRILLO-TSCP08-081425



Tgt Ion: 84 Resp: 7464

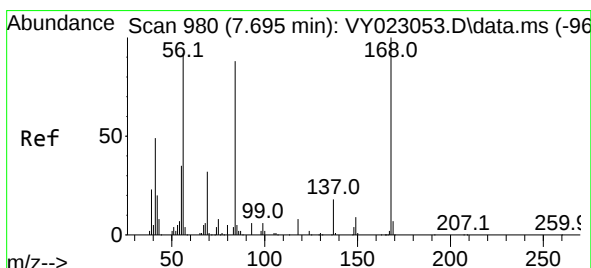
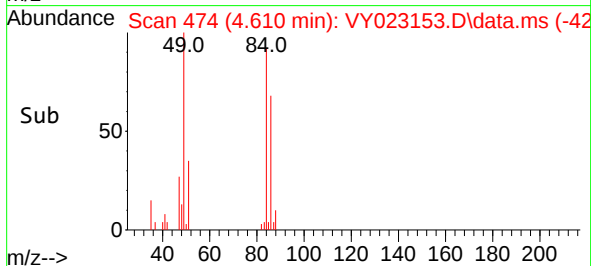
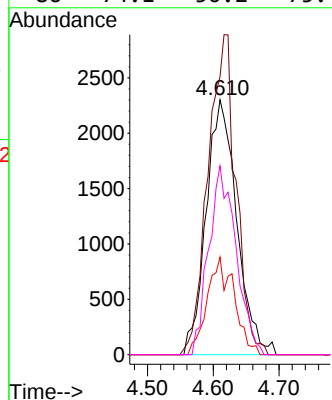
Ion Ratio Lower Upper

84 100

49 109.1 93.0 139.6

51 38.2 29.0 43.4

86 74.1 50.2 75.4



#31

Cyclohexane

Concen: 1.184 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.012 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

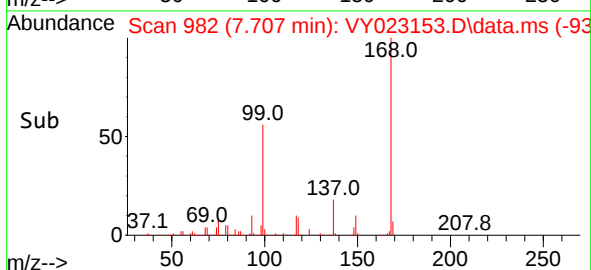
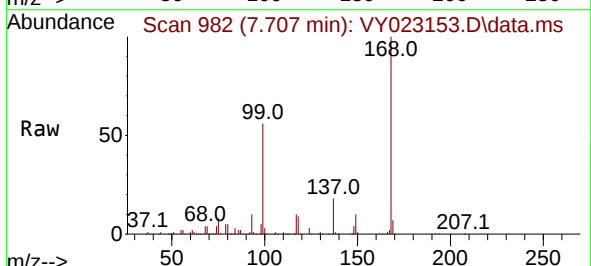
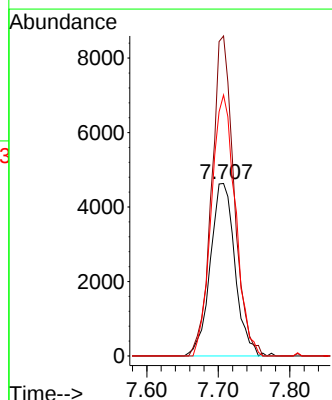
Tgt Ion: 56 Resp: 11089

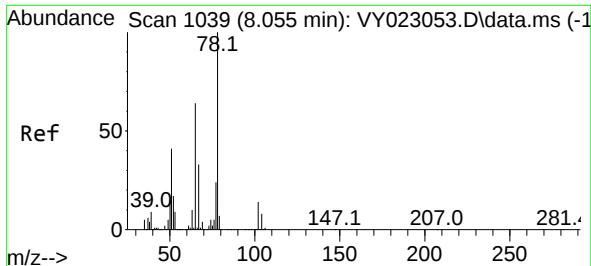
Ion Ratio Lower Upper

56 100

69 185.6 28.2 42.2#

84 151.3 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 55.894 ug/l

RT: 8.061 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

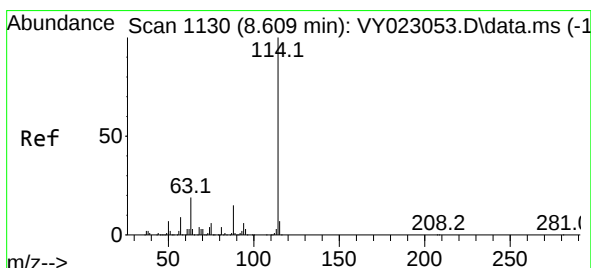
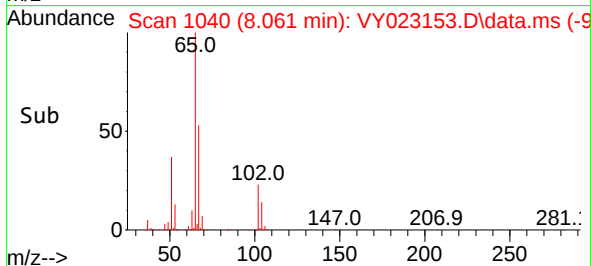
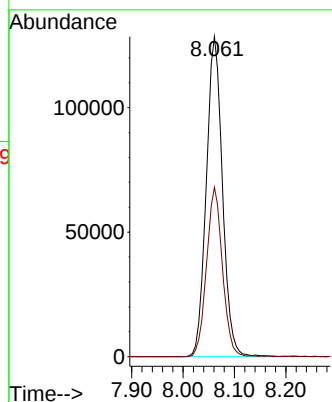
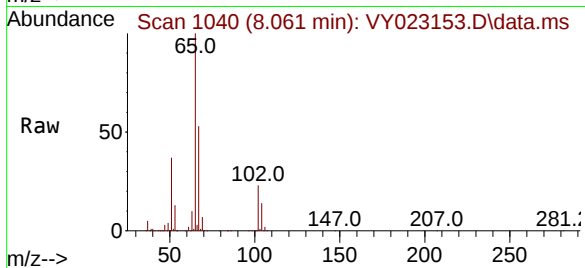
OU4-TS-GRILLO-TSCP08-081425

Tgt Ion: 65 Resp: 281131

Ion Ratio Lower Upper

65 100

67 52.1 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: VY023153.D

Acq: 19 Aug 2025 16:02

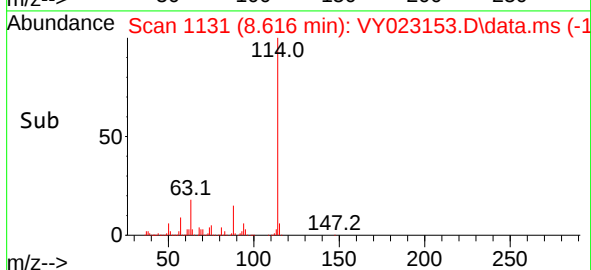
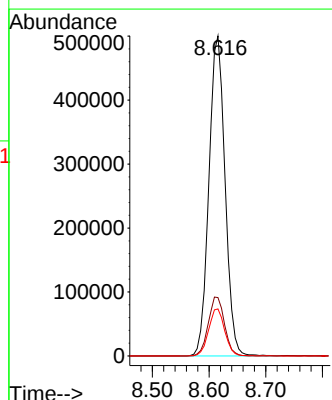
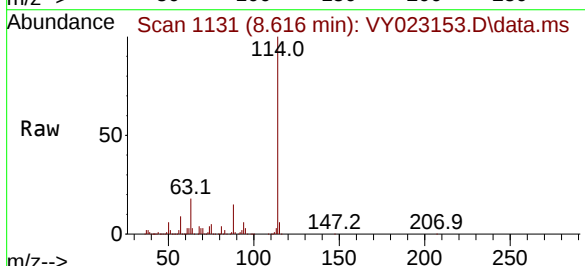
Tgt Ion: 114 Resp: 988192

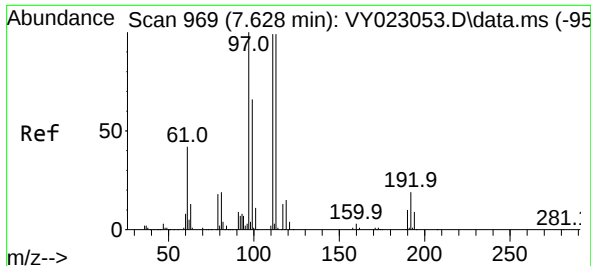
Ion Ratio Lower Upper

114 100

63 18.2 0.0 38.4

88 14.7 0.0 30.0

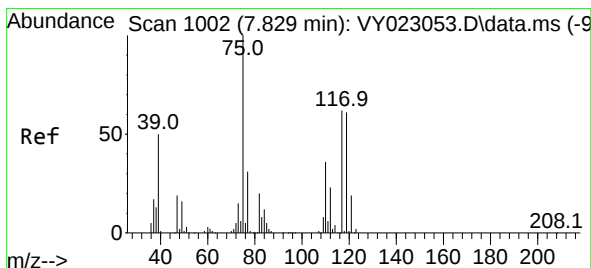
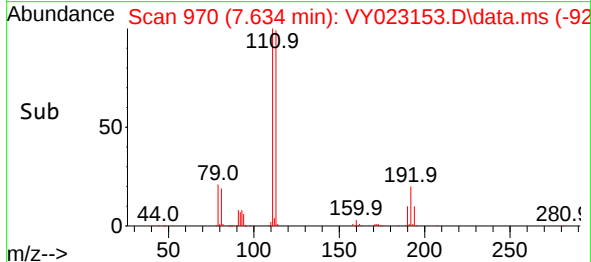
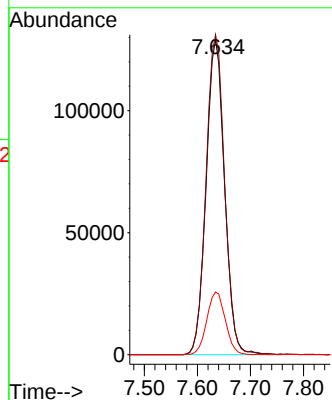
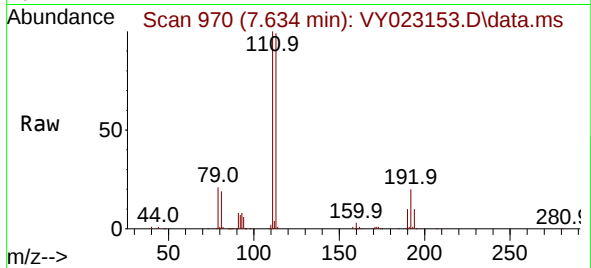




#35
Dibromofluoromethane
Concen: 52.679 ug/l
RT: 7.634 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY023153.D
Acq: 19 Aug 2025 16:02

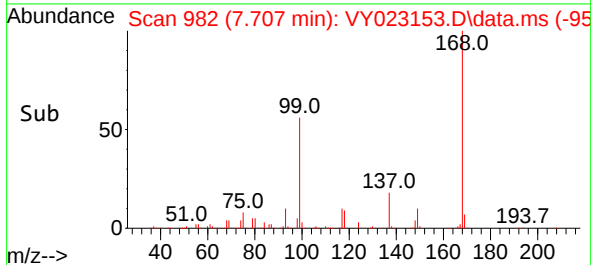
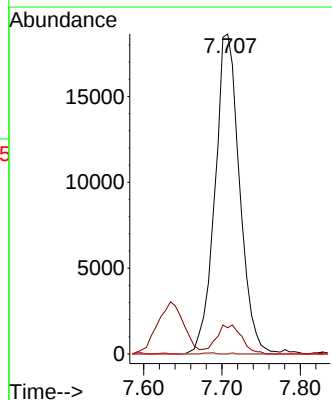
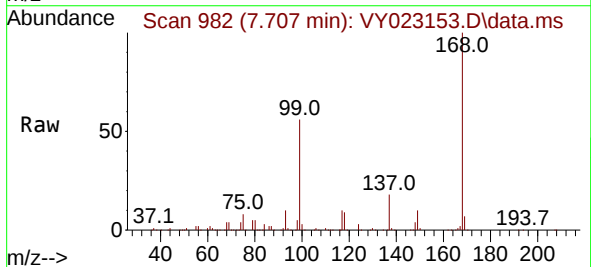
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425

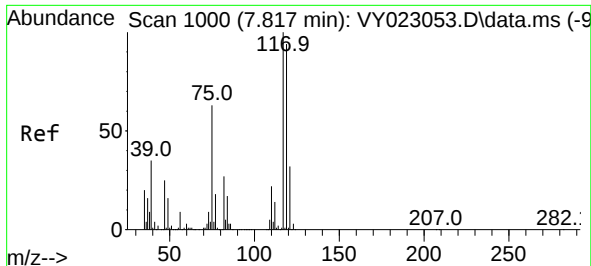
Tgt Ion:113 Resp: 311495
Ion Ratio Lower Upper
113 100
111 102.5 81.1 121.7
192 20.0 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.637 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.122 min
Lab File: VY023153.D
Acq: 19 Aug 2025 16:02

Tgt Ion: 75 Resp: 40748
Ion Ratio Lower Upper
75 100
110 9.5 18.1 54.4#
77 0.1 24.6 37.0#

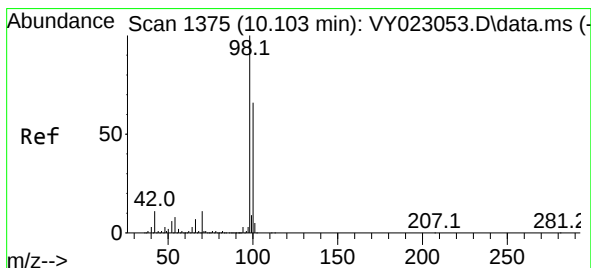
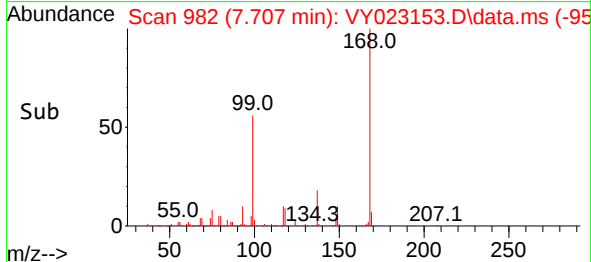
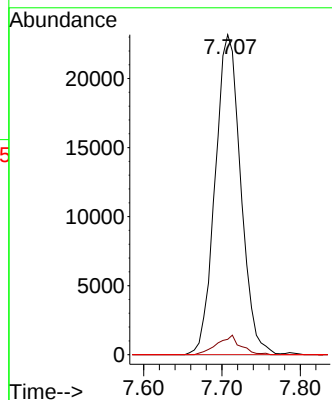
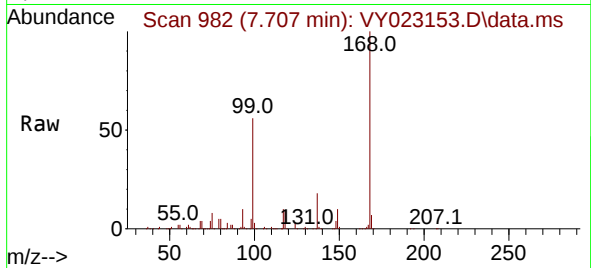




#38
Carbon Tetrachloride
Concen: 5.515 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023153.D
Acq: 19 Aug 2025 16:02

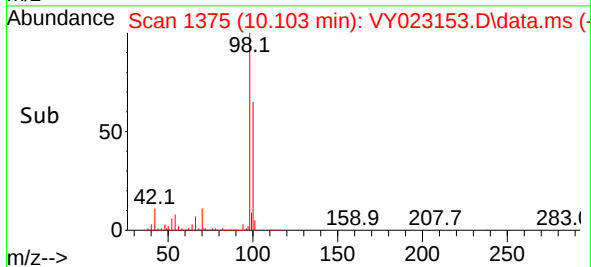
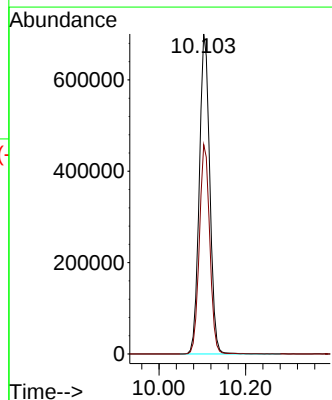
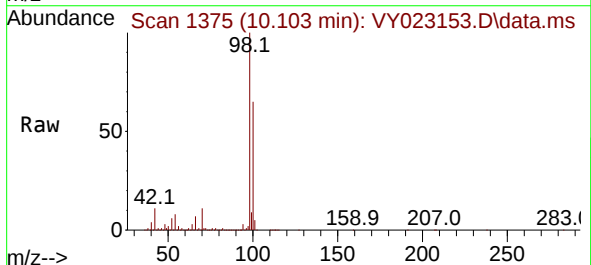
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425

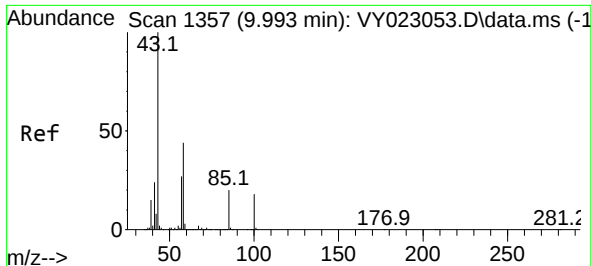
Tgt Ion:117 Resp: 52637
Ion Ratio Lower Upper
117 100
119 4.8 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 50.840 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023153.D
Acq: 19 Aug 2025 16:02

Tgt Ion: 98 Resp: 1174381
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.250 ug/l

RT: 10.103 min Scan# 1

Delta R.T. 0.110 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

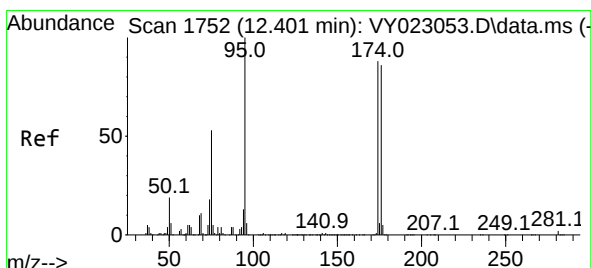
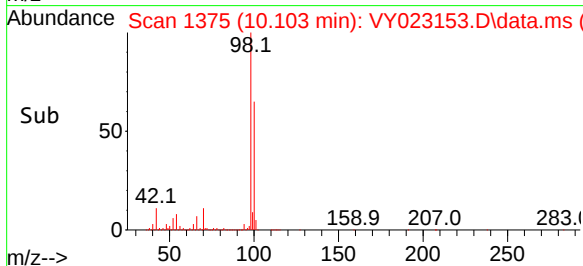
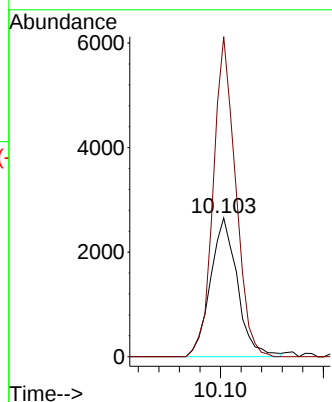
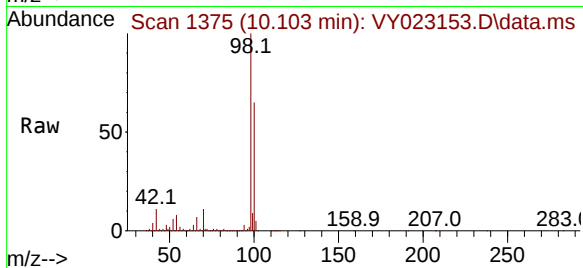
OU4-TS-GRILLO-TSCP08-081425

Tgt Ion: 43 Resp: 4812

Ion Ratio Lower Upper

43 100

58 192.1 33.5 50.3#



#62

4-Bromofluorobenzene

Concen: 37.986 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

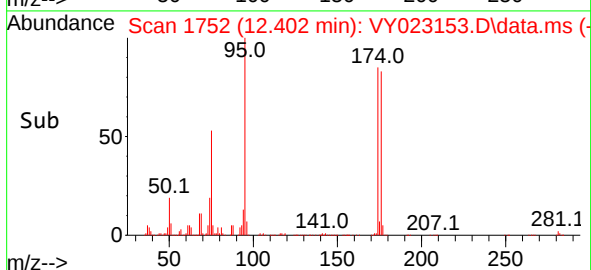
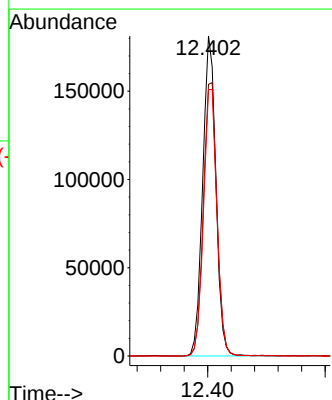
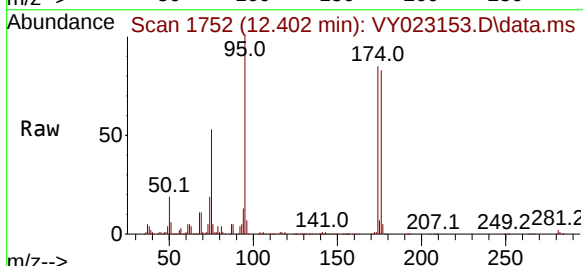
Tgt Ion: 95 Resp: 282189

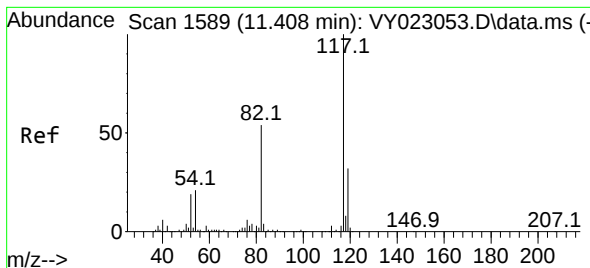
Ion Ratio Lower Upper

95 100

174 88.2 0.0 171.6

176 85.2 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-GRILLO-TSCP08-081425

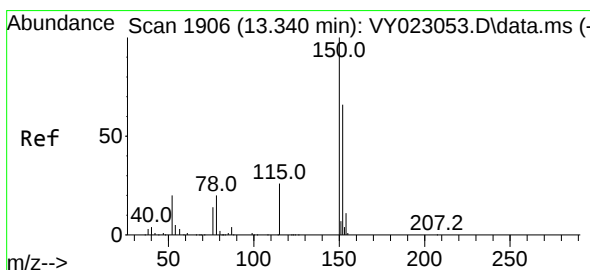
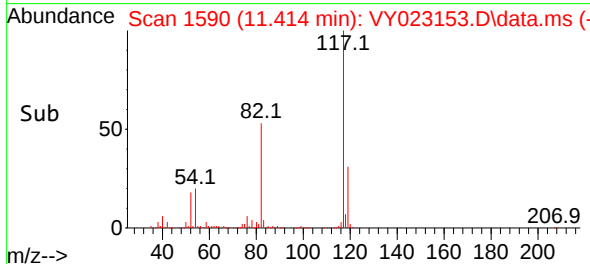
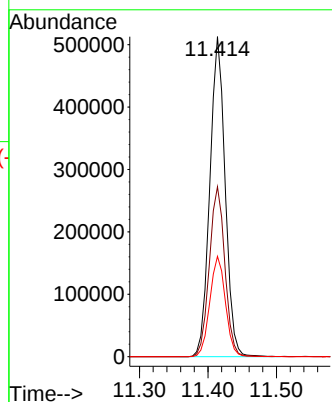
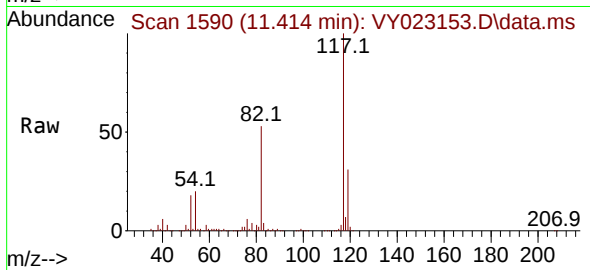
Tgt Ion:117 Resp: 796376

Ion Ratio Lower Upper

117 100

82 53.1 43.4 65.0

119 31.4 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023153.D

Acq: 19 Aug 2025 16:02

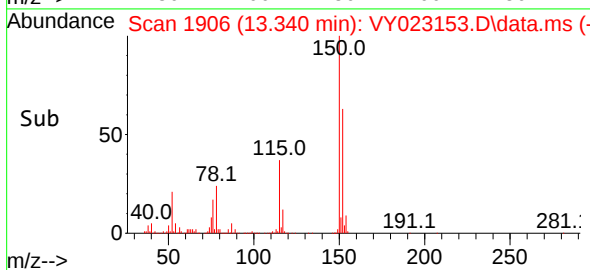
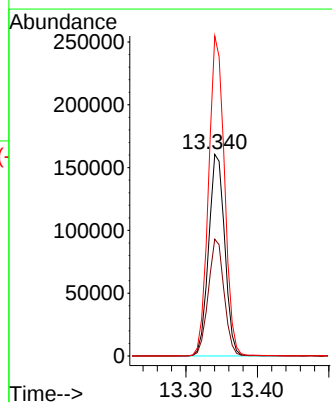
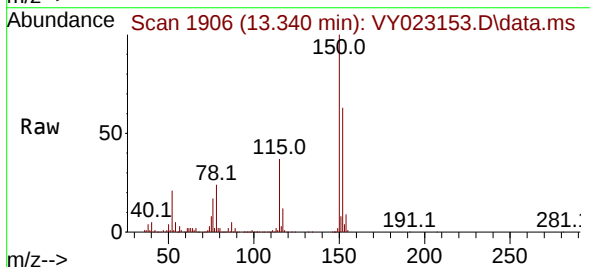
Tgt Ion:152 Resp: 251001

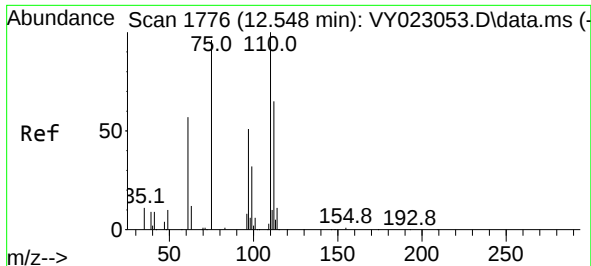
Ion Ratio Lower Upper

152 100

115 57.0 28.2 84.6

150 157.0 0.0 348.0

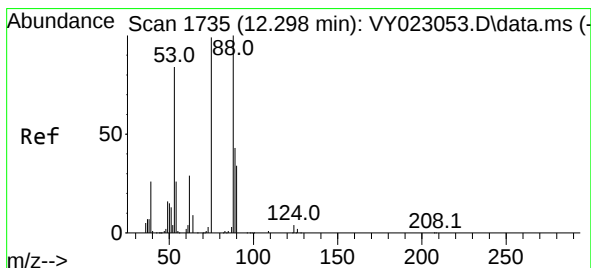
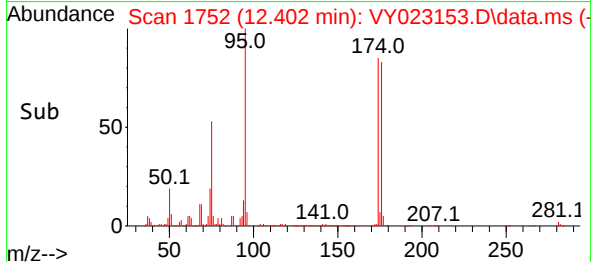
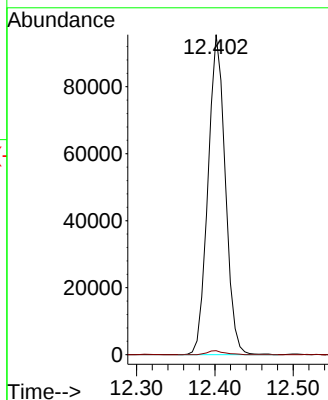
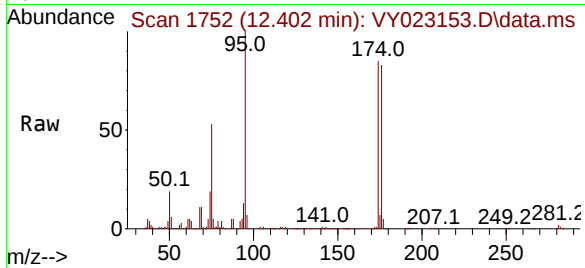




#76
1,2,3-Trichloropropane
Concen: 60.397 ug/l
RT: 12.402 min Scan# 1776
Delta R.T. -0.146 min
Lab File: VY023153.D
Acq: 19 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425

Tgt Ion: 75 Resp: 146307
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 146.202 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023153.D
Acq: 19 Aug 2025 16:02

Tgt Ion: 75 Resp: 146307
Ion Ratio Lower Upper
75 100
53 0.2 70.8 106.2#
89 0.0 38.1 57.1#

