

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053025\
 Data File : VY022485.D
 Acq On : 30 May 2025 17:48
 Operator : SY/MD
 Sample : Q2161-02
 Misc : 5.18g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B28-SOIL-SAMPLE

Quant Time: May 31 02:31:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 28 10:34:06 2025
 Response via : Initial Calibration

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

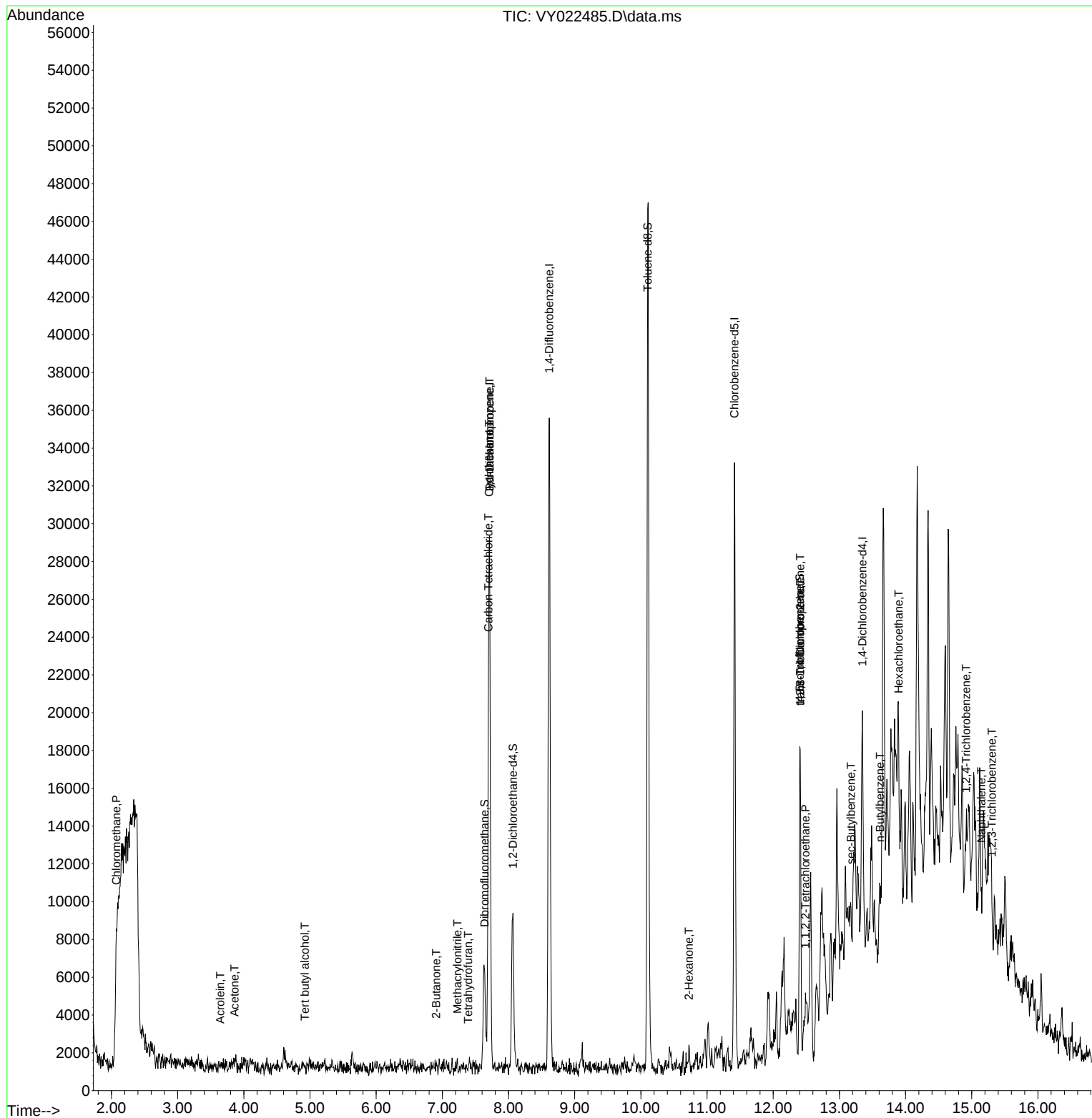
Internal Standards						
1) Pentafluorobenzene	7.713	168	21427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	29760	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	15121	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	2932	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	6140	27.205	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	54.420%
35) Dibromofluoromethane	7.640	113	3635	20.857	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	41.720%#
50) Toluene-d8	10.103	98	29970	42.183	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.360%
62) 4-Bromofluorobenzene	12.402	95	4550	21.172	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	42.340%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	603	1.199	ug/l	93
11) Tert butyl alcohol	4.921	59	20	1.257	ug/l #	70
13) Acrolein	3.641	56	57	2.391	ug/l #	14
16) Acetone	3.860	43	767	20.681	ug/l #	73
25) 2-Butanone	6.909	43	99	1.603	ug/l #	46
29) Tetrahydrofuran	7.390	42	45	1.092	ug/l #	31
31) Cyclohexane	7.707	56	607	1.398	ug/l #	35
36) 1,1-Dichloropropene	7.713	75	2128	7.695	ug/l #	50
38) Carbon Tetrachloride	7.695	117	2295	7.966	ug/l #	12
41) Methacrylonitrile	7.226	41	73	1.023	ug/l #	26
59) 2-Hexanone	10.725	43	514	6.189	ug/l #	25
75) 1,1,2,2-Tetrachloroethane	12.487	83	145	3.988	ug/l #	77
76) 1,2,3-Trichloropropane	12.408	75	2513	85.567	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	2513	193.506	ug/l #	12
85) sec-Butylbenzene	13.176	105	312	1.291	ug/l #	57
89) n-Butylbenzene	13.615	91	348	1.840	ug/l #	34
90) Hexachloroethane	13.895	117	46	1.146	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.913	180	84	1.816	ug/l #	1
95) Naphthalene	15.145	128	253	2.958	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.303	180	81	2.135	ug/l #	1

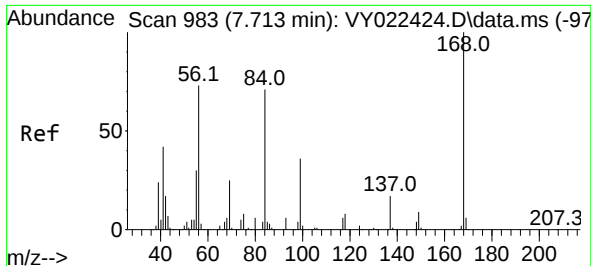
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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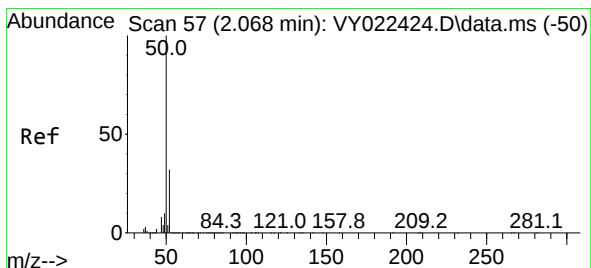
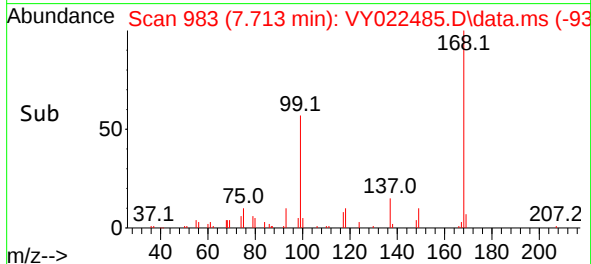
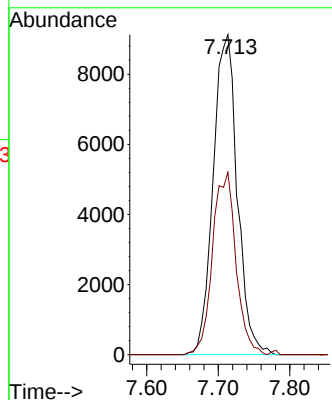
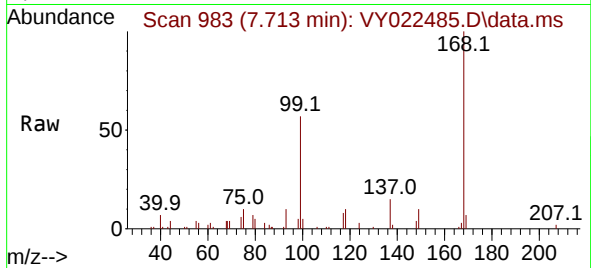




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

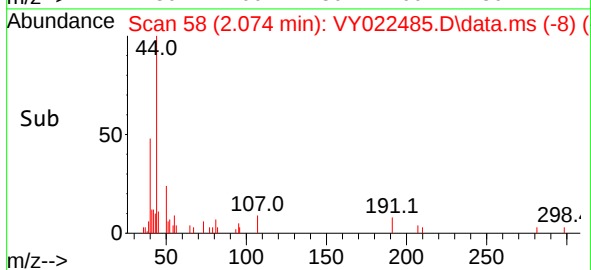
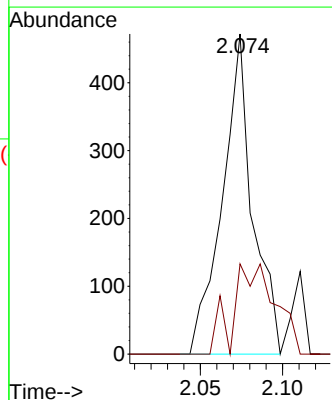
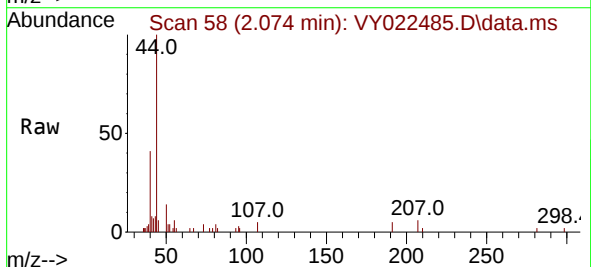
Instrument :
MSVOA_Y
ClientSampleId :
B28-SOIL-SAMPLE

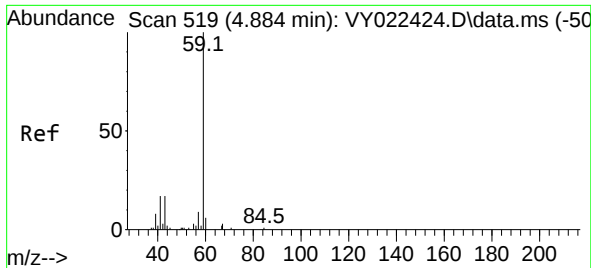
Tgt Ion:168 Resp: 21427
Ion Ratio Lower Upper
168 100
99 56.9 44.7 67.1



#3
Chloromethane
Concen: 1.199 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion: 50 Resp: 603
Ion Ratio Lower Upper
50 100
52 28.2 25.5 38.3

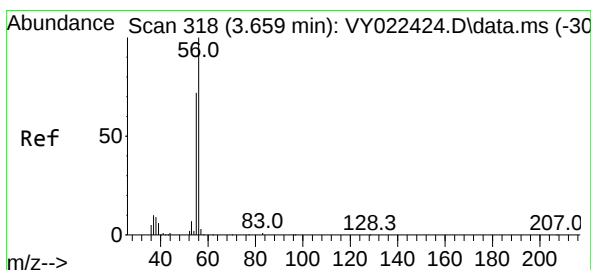
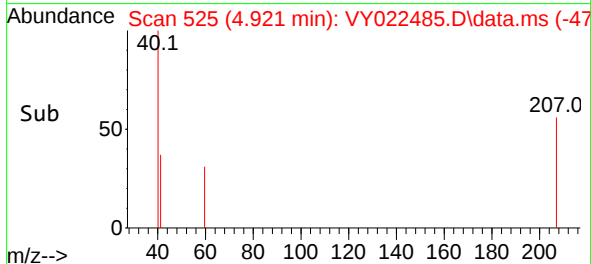
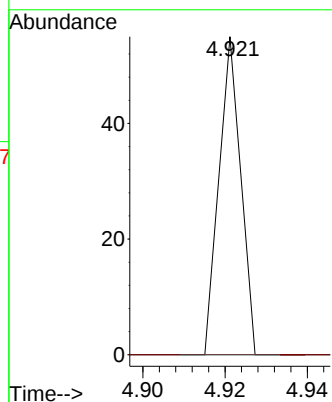
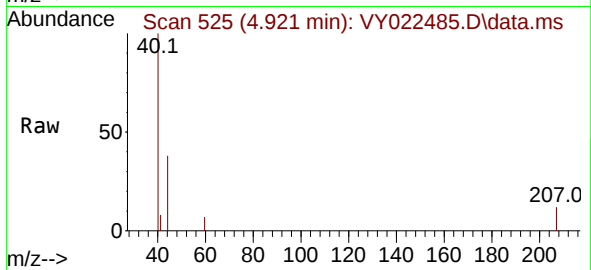




#11
Tert butyl alcohol
Concen: 1.257 ug/l
RT: 4.921 min Scan# 519
Delta R.T. 0.037 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

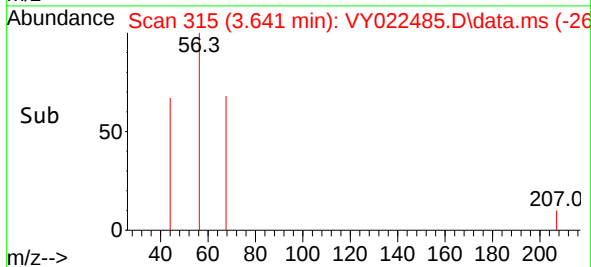
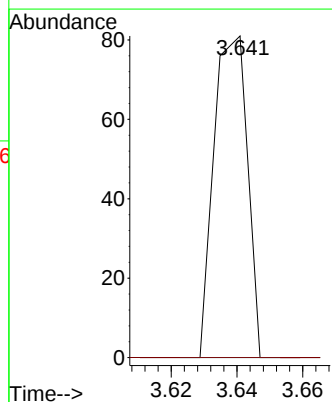
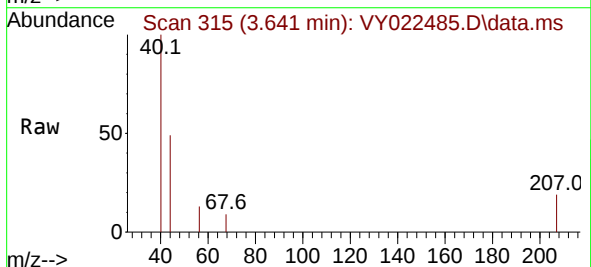
Instrument :
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ClientSampleId :
B28-SOIL-SAMPLE

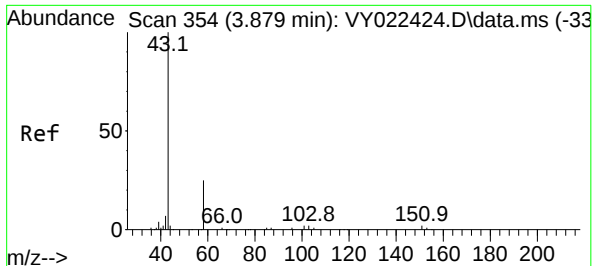
Tgt Ion: 59 Resp: 20
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#



#13
Acrolein
Concen: 2.391 ug/l
RT: 3.641 min Scan# 315
Delta R.T. -0.018 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 0.0 56.5 84.7#

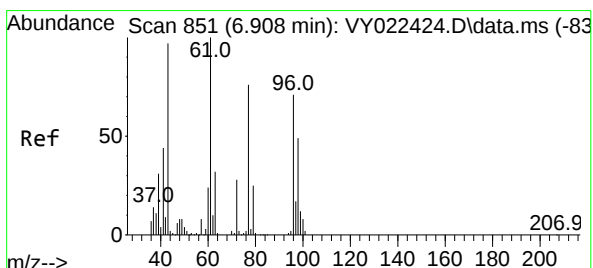
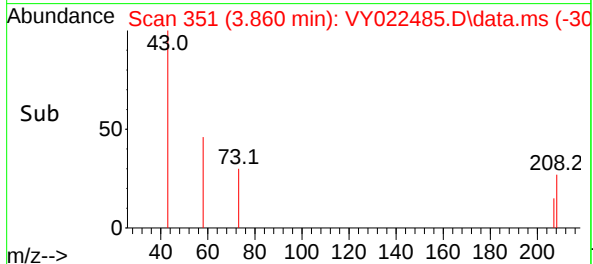
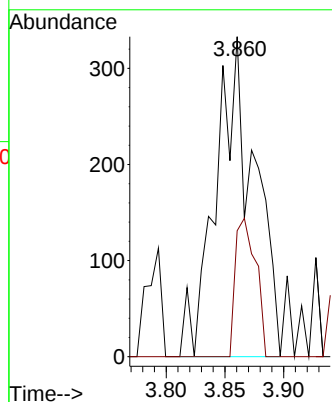
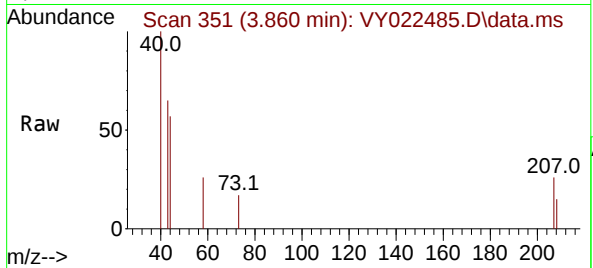




#16
Acetone
Concen: 20.681 ug/l
RT: 3.860 min Scan# 31
Delta R.T. -0.018 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

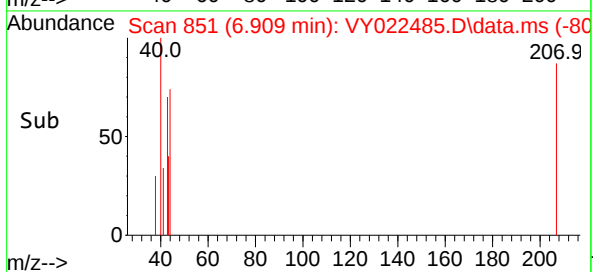
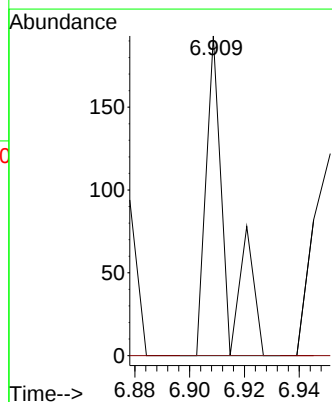
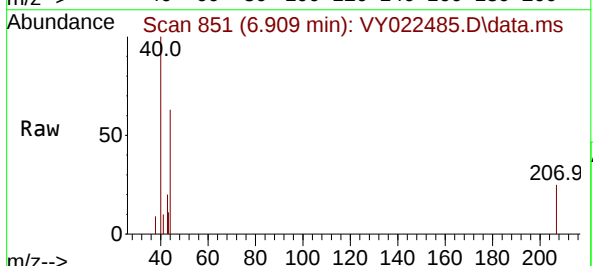
Instrument :
MSVOA_Y
ClientSampleId :
B28-SOIL-SAMPLE

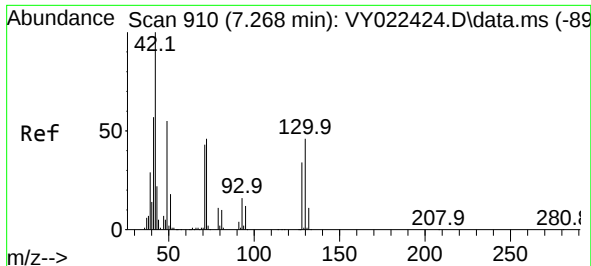
Tgt Ion: 43 Resp: 767
Ion Ratio Lower Upper
43 100
58 39.3 20.6 30.8#



#25
2-Butanone
Concen: 1.603 ug/l
RT: 6.909 min Scan# 851
Delta R.T. 0.000 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion: 43 Resp: 99
Ion Ratio Lower Upper
43 100
72 0.0 22.8 34.2#





#29

Tetrahydrofuran

Concen: 1.092 ug/l

RT: 7.390 min Scan# 910

Delta R.T. 0.122 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

B28-SOIL-SAMPLE

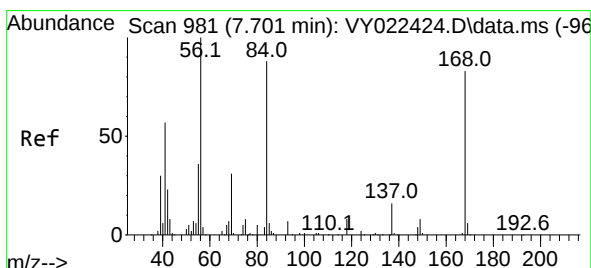
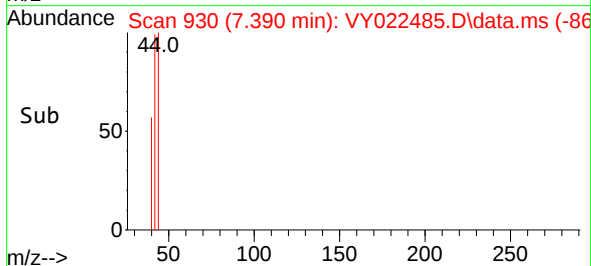
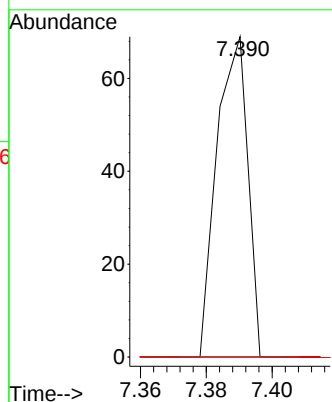
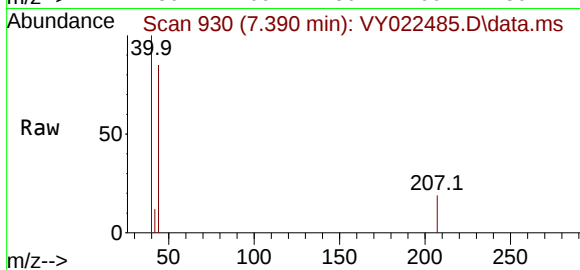
Tgt Ion: 42 Resp: 45

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

71 0.0 34.7 52.1#



#31

Cyclohexane

Concen: 1.398 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.006 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

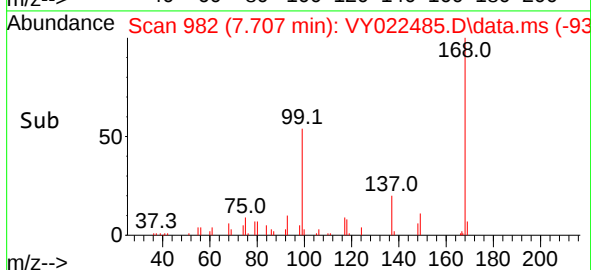
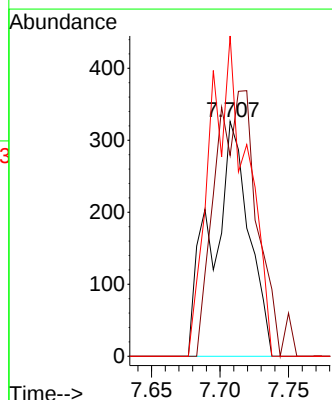
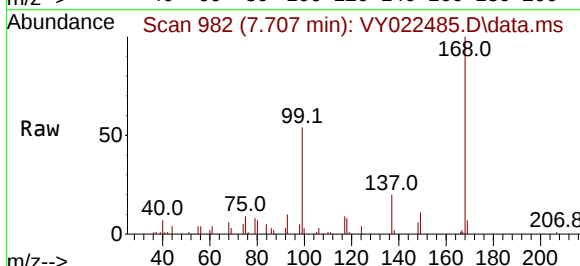
Tgt Ion: 56 Resp: 607

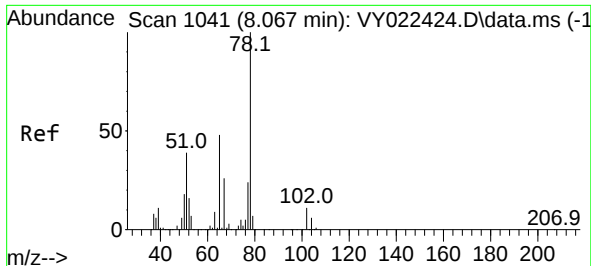
Ion Ratio Lower Upper

56 100

69 85.6 24.6 36.8#

84 136.5 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 27.205 ug/l

RT: 8.067 min Scan# 11041

Delta R.T. 0.000 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

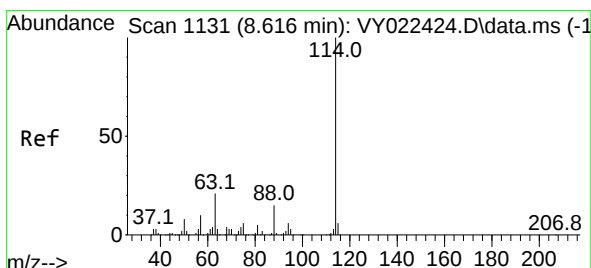
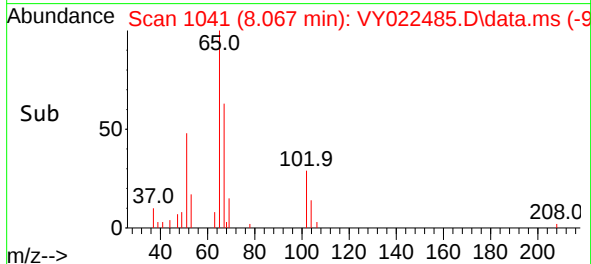
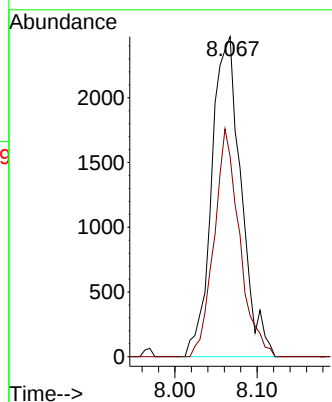
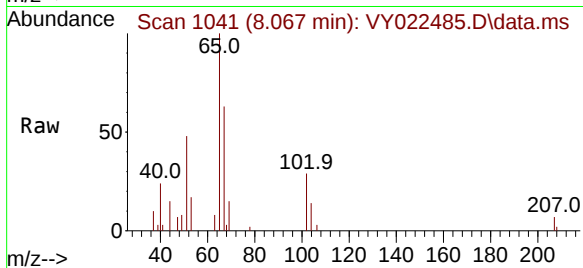
B28-SOIL-SAMPLE

Tgt Ion: 65 Resp: 6140

Ion Ratio Lower Upper

65 100

67 61.7 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

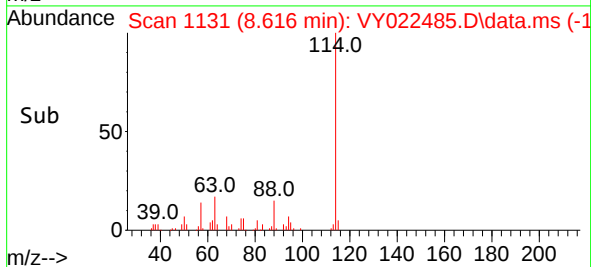
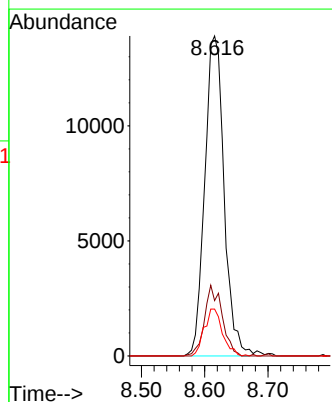
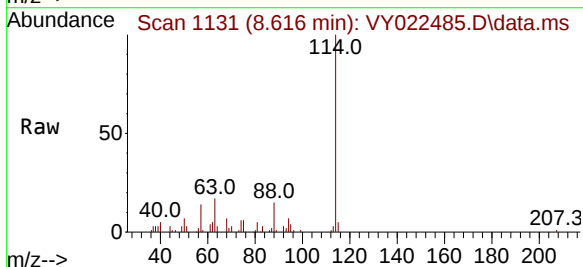
Tgt Ion: 114 Resp: 29760

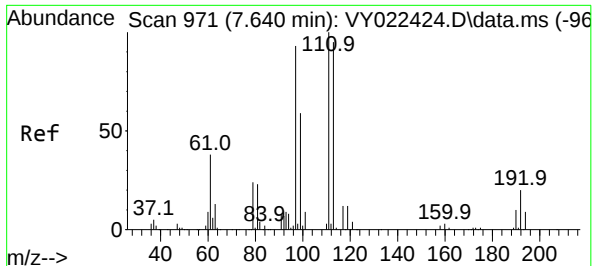
Ion Ratio Lower Upper

114 100

63 17.3 0.0 42.6

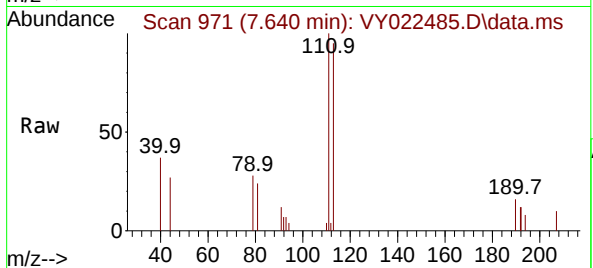
88 14.7 0.0 29.4



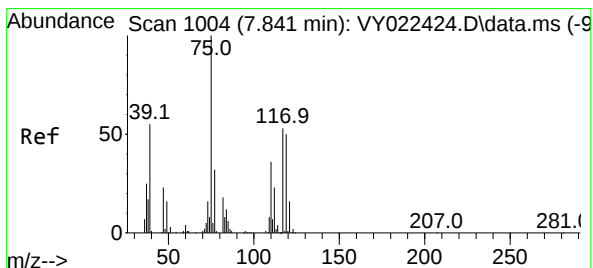
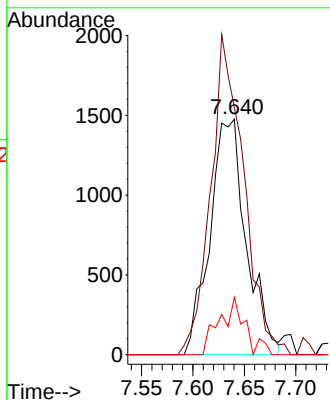
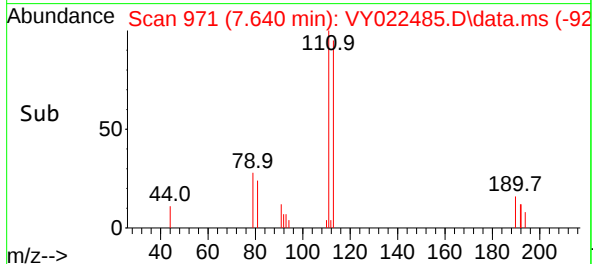


#35
Dibromofluoromethane
Concen: 20.857 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

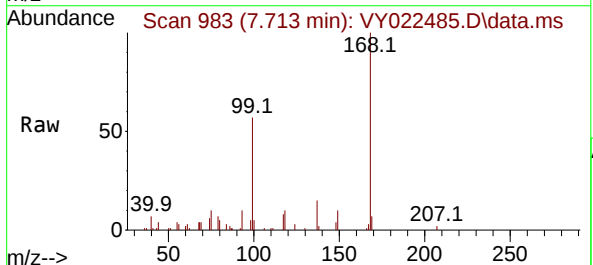
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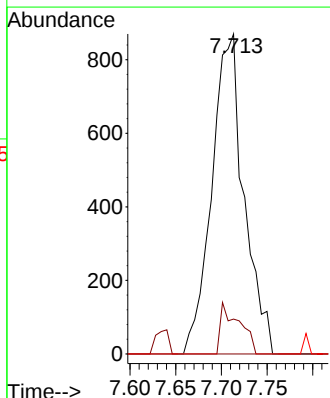
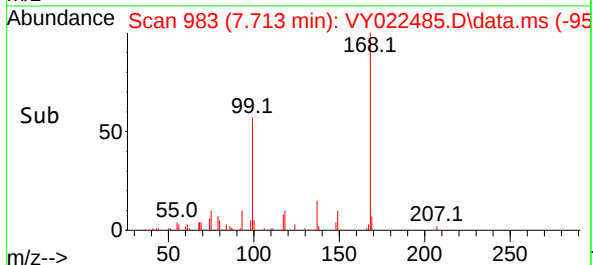
Tgt Ion:113 Resp: 3635
Ion Ratio Lower Upper
113 100
111 123.1 82.4 123.6
192 17.4 15.2 22.8

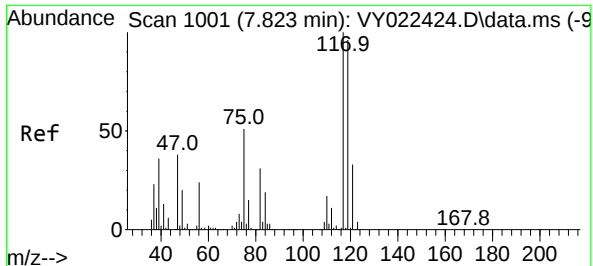


#36
1,1-Dichloropropene
Concen: 7.695 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.128 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48



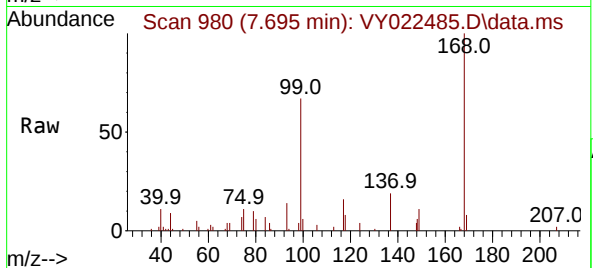
Tgt Ion: 75 Resp: 2128
Ion Ratio Lower Upper
75 100
110 9.4 17.1 51.2#
77 0.0 25.1 37.7#



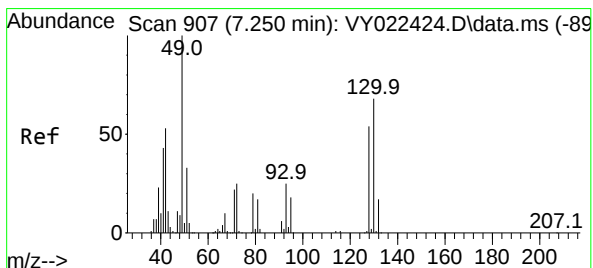
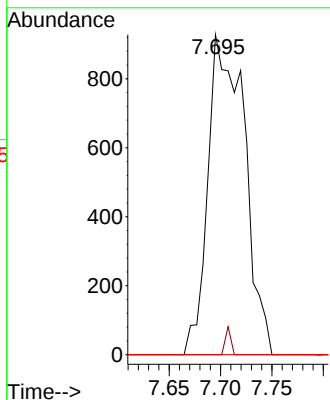
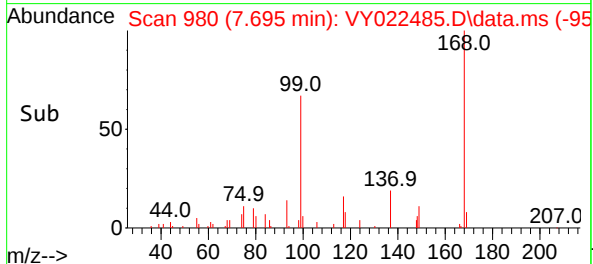


#38
Carbon Tetrachloride
Concen: 7.966 ug/l
RT: 7.695 min Scan# 903
Delta R.T. -0.128 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

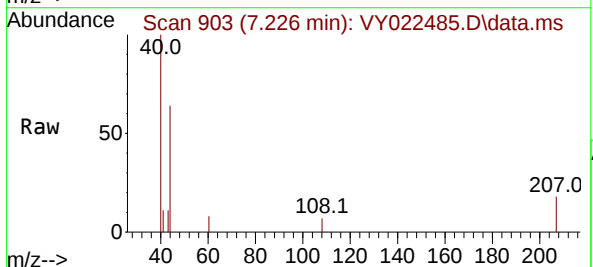
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MSVOA_Y
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B28-SOIL-SAMPLE



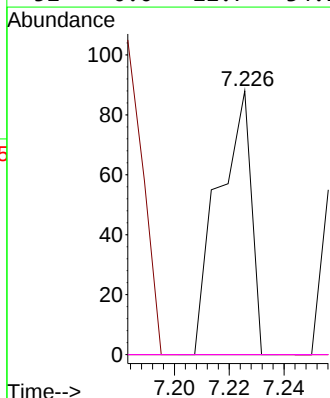
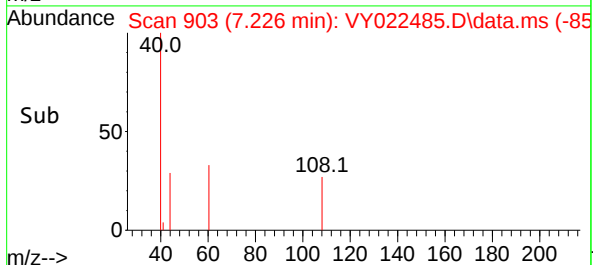
Tgt Ion: 117 Resp: 2295
Ion Ratio Lower Upper
117 100
119 0.0 76.3 114.5#
121 0.0 26.1 39.1#

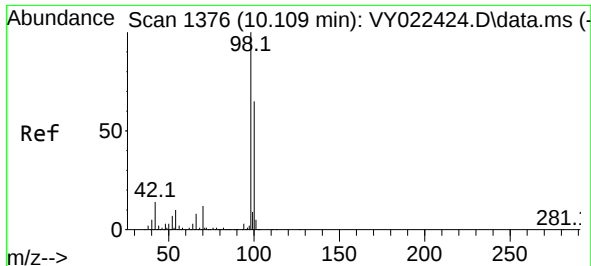


#41
Methacrylonitrile
Concen: 1.023 ug/l
RT: 7.226 min Scan# 903
Delta R.T. -0.024 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48



Tgt Ion: 41 Resp: 73
Ion Ratio Lower Upper
41 100
39 0.0 40.4 60.6#
67 0.0 53.0 79.4#
52 0.0 22.7 34.1#

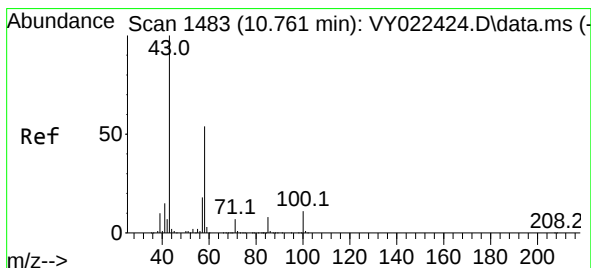
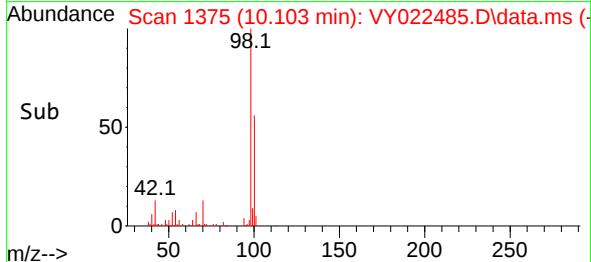
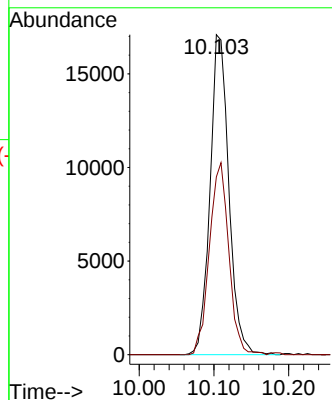
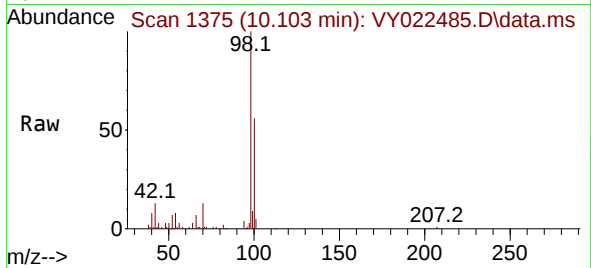




#50
Toluene-d8
Concen: 42.183 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

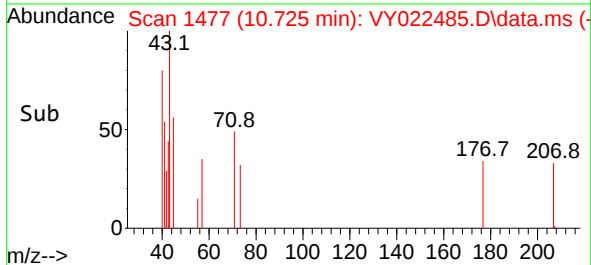
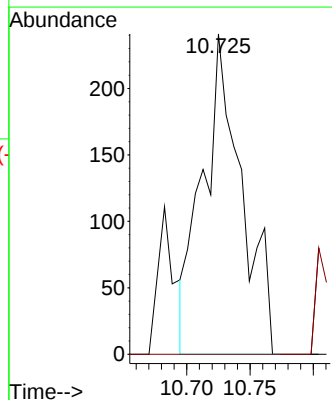
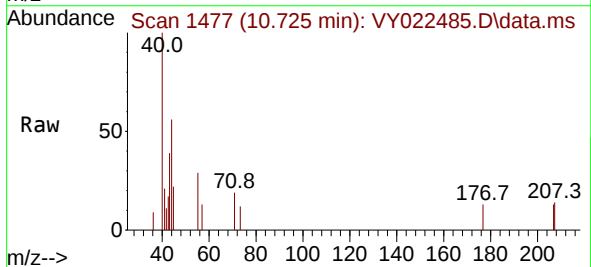
Instrument :
MSVOA_Y
ClientSampleId :
B28-SOIL-SAMPLE

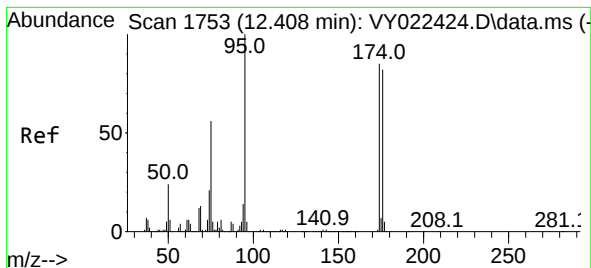
Tgt Ion: 98 Resp: 29970
Ion Ratio Lower Upper
98 100
100 61.9 52.2 78.2



#59
2-Hexanone
Concen: 6.189 ug/l
RT: 10.725 min Scan# 1477
Delta R.T. -0.036 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion: 43 Resp: 514
Ion Ratio Lower Upper
43 100
58 0.0 27.1 81.2#

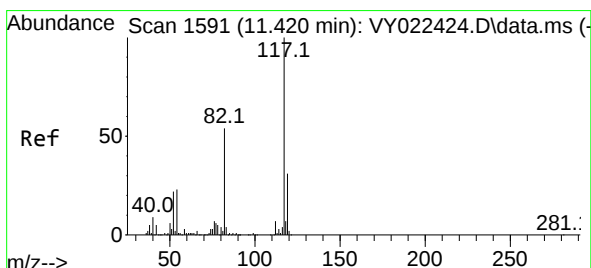
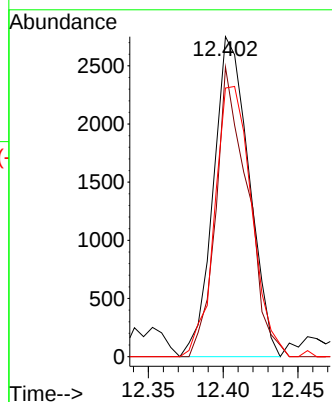
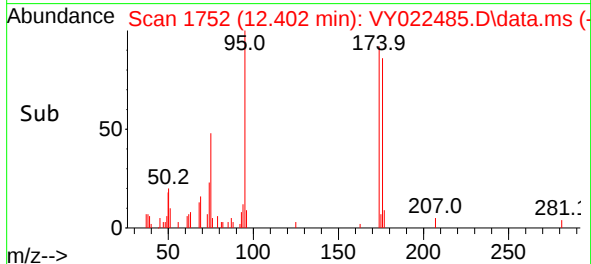
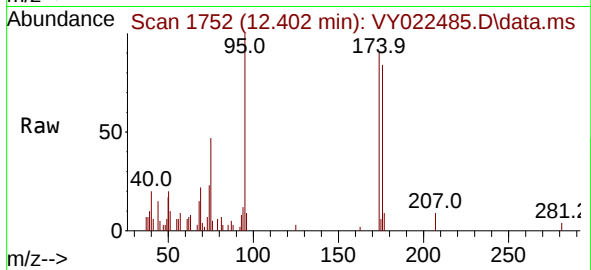




#62
4-Bromofluorobenzene
Concen: 21.172 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

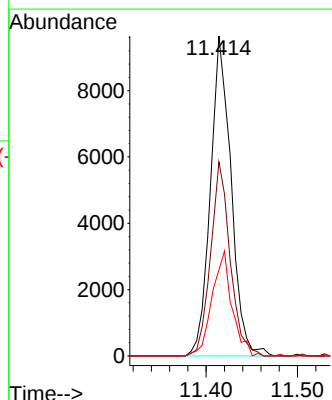
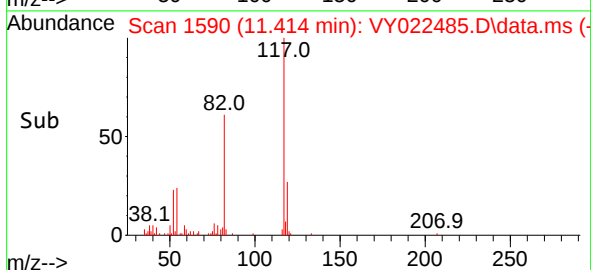
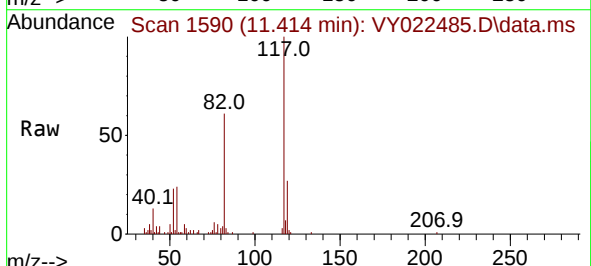
Instrument :
MSVOA_Y
ClientSampleId :
B28-SOIL-SAMPLE

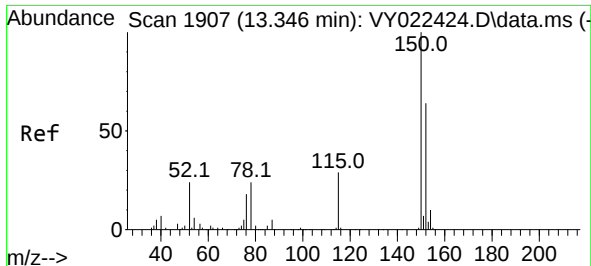
Tgt Ion: 95 Resp: 4550
Ion Ratio Lower Upper
95 100
174 80.4 0.0 171.6
176 87.4 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion: 117 Resp: 15121
Ion Ratio Lower Upper
117 100
82 60.6 43.3 64.9
119 26.9 24.5 36.7

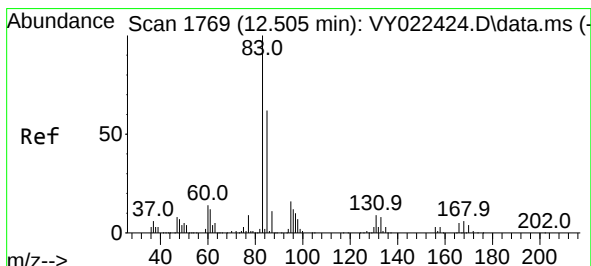
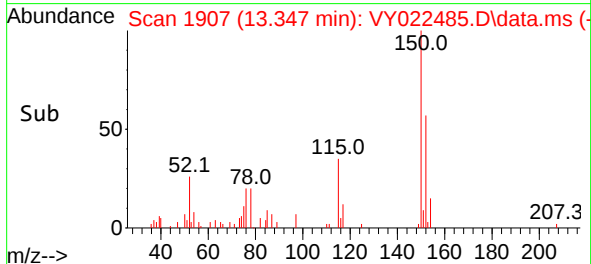
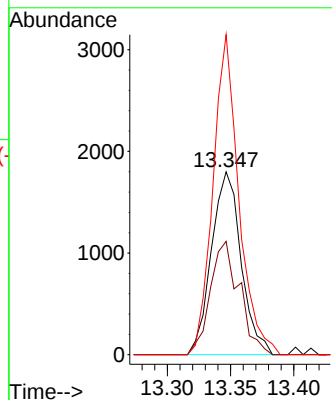
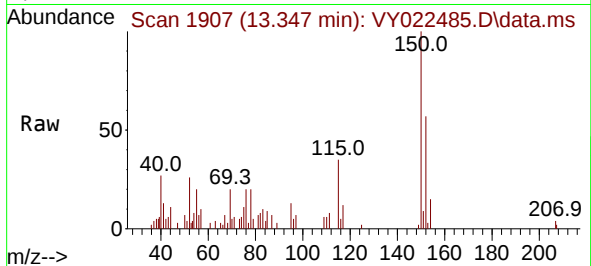




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.347 min Scan# 1907
 Delta R.T. 0.000 min
 Lab File: VY022485.D
 Acq: 30 May 2025 17:48

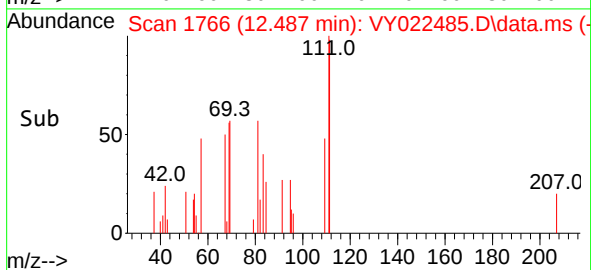
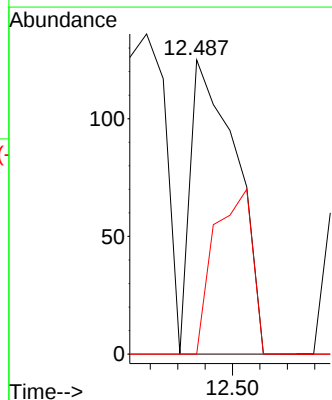
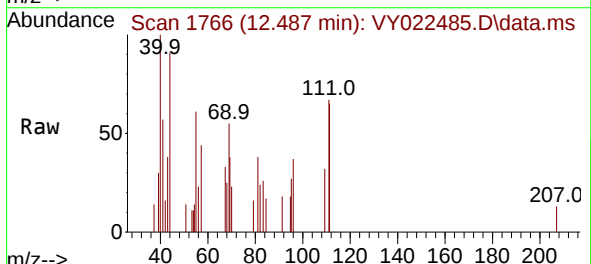
Instrument :
 MSVOA_Y
 ClientSampleId :
 B28-SOIL-SAMPLE

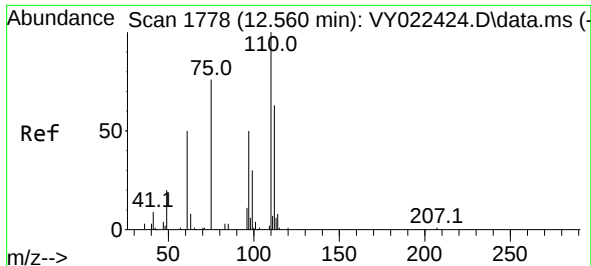
Tgt Ion:152 Resp: 2932
 Ion Ratio Lower Upper
 152 100
 115 61.1 28.4 85.3
 150 152.0 0.0 345.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: 3.988 ug/l
 RT: 12.487 min Scan# 1766
 Delta R.T. -0.018 min
 Lab File: VY022485.D
 Acq: 30 May 2025 17:48

Tgt Ion: 83 Resp: 145
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.8 14.4#
 85 46.2 32.0 96.2

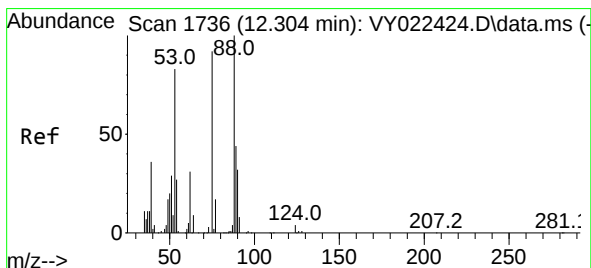
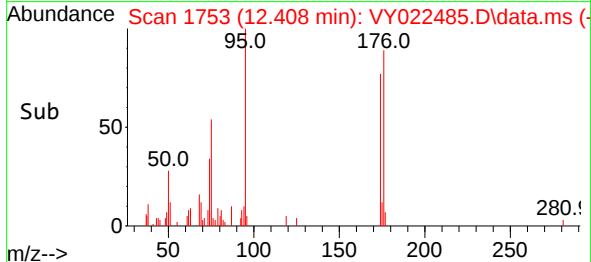
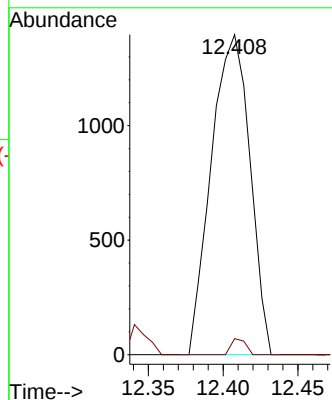
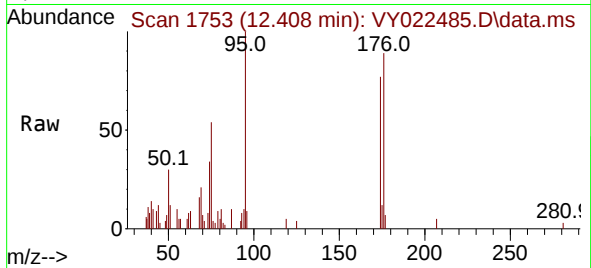




#76
1,2,3-Trichloropropane
Concen: 85.567 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

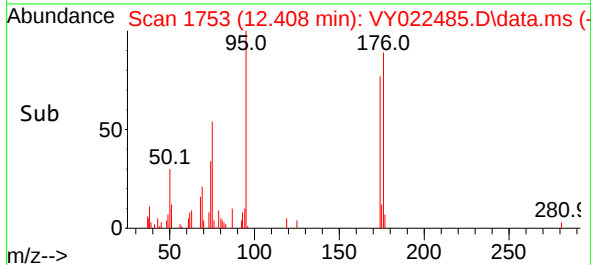
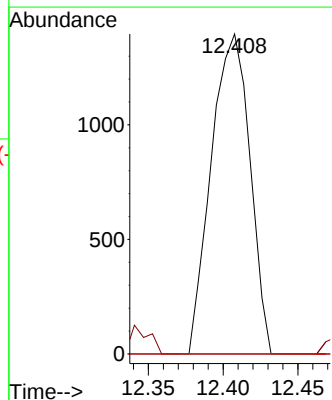
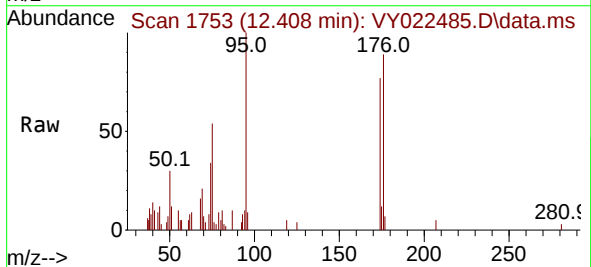
Instrument :
MSVOA_Y
ClientSampleId :
B28-SOIL-SAMPLE

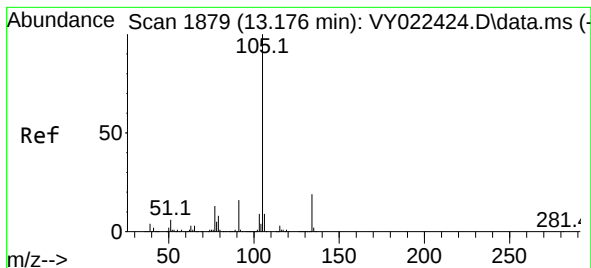
Tgt Ion: 75 Resp: 2513
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 193.506 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion: 75 Resp: 2513
Ion Ratio Lower Upper
75 100
53 0.0 75.1 112.7#
89 0.0 37.4 56.0#





#85

sec-Butylbenzene

Concen: 1.291 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

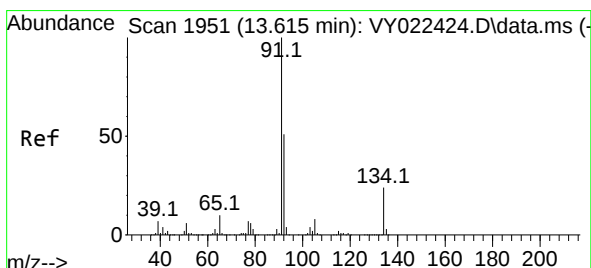
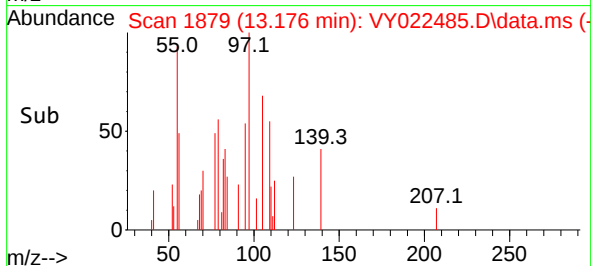
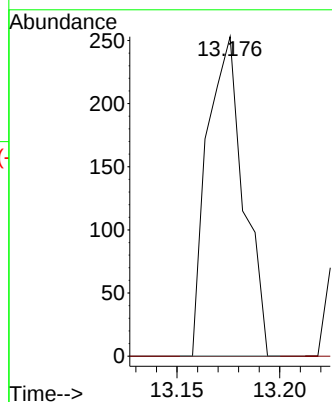
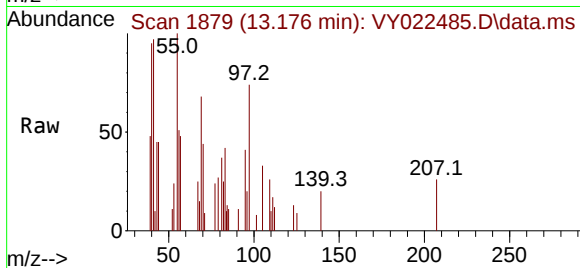
B28-SOIL-SAMPLE

Tgt Ion:105 Resp: 312

Ion Ratio Lower Upper

105 100

134 0.0 9.7 29.1#



#89

n-Butylbenzene

Concen: 1.840 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

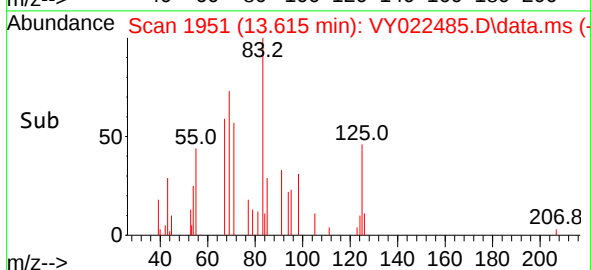
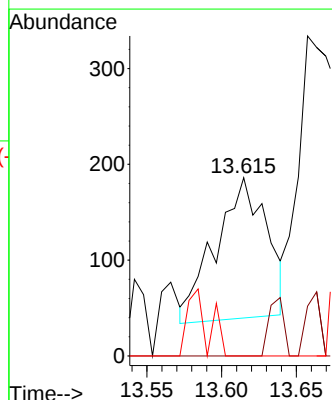
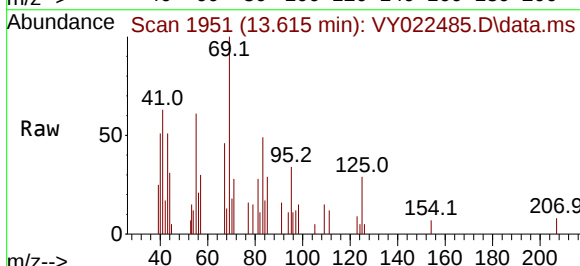
Tgt Ion: 91 Resp: 348

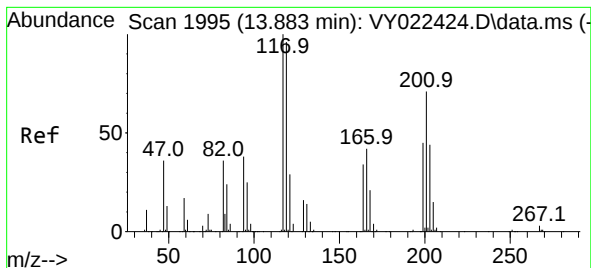
Ion Ratio Lower Upper

91 100

92 0.0 25.9 77.6#

134 0.0 12.4 37.0#





#90

Hexachloroethane

Concen: 1.146 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.012 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

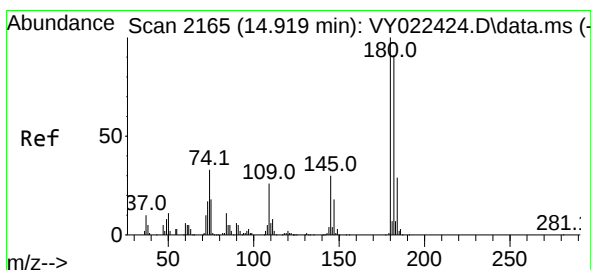
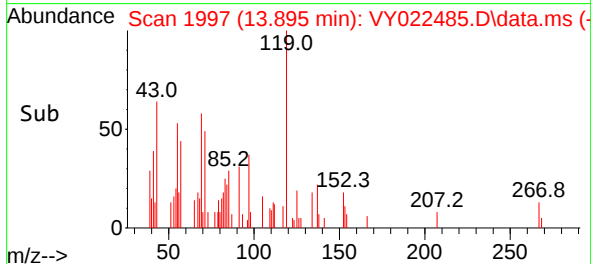
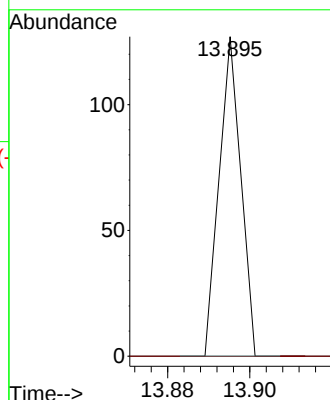
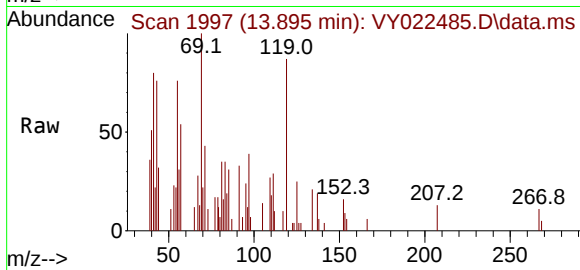
B28-SOIL-SAMPLE

Tgt Ion:117 Resp: 46

Ion Ratio Lower Upper

117 100

201 0.0 35.0 105.0#



#93

1,2,4-Trichlorobenzene

Concen: 1.816 ug/l

RT: 14.913 min Scan# 2164

Delta R.T. -0.006 min

Lab File: VY022485.D

Acq: 30 May 2025 17:48

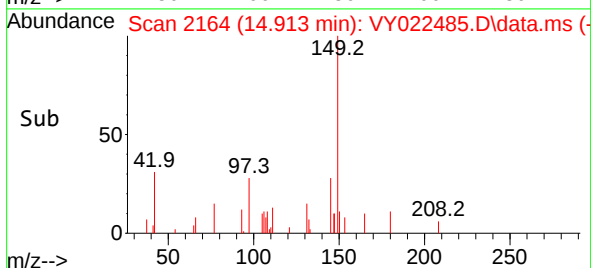
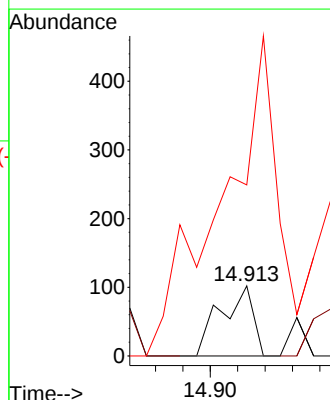
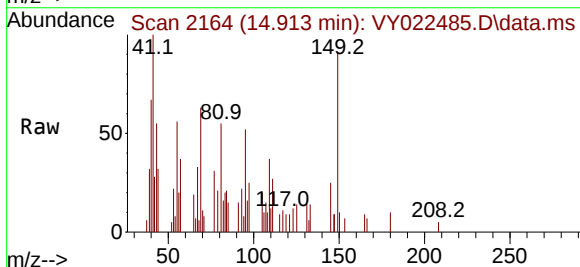
Tgt Ion:180 Resp: 84

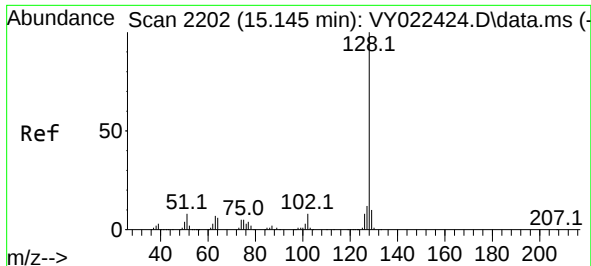
Ion Ratio Lower Upper

180 100

182 0.0 46.2 138.6#

145 785.7 14.2 42.8#

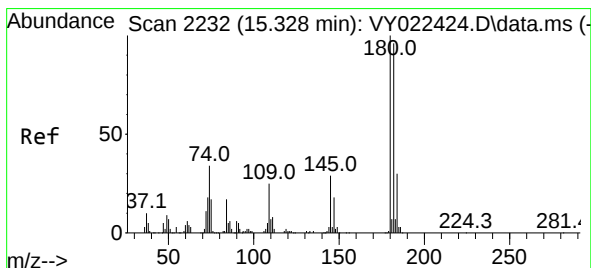
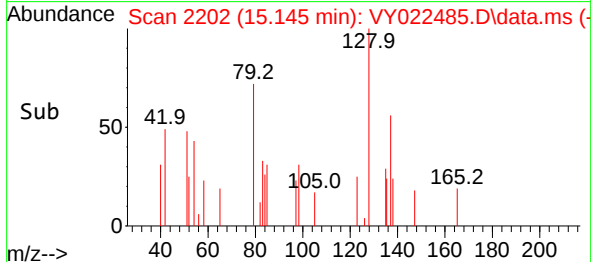
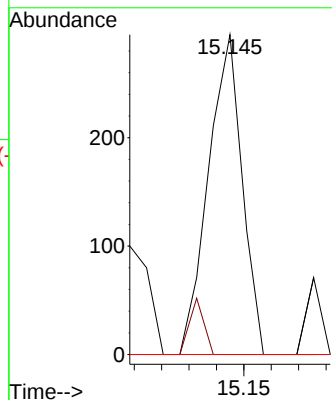
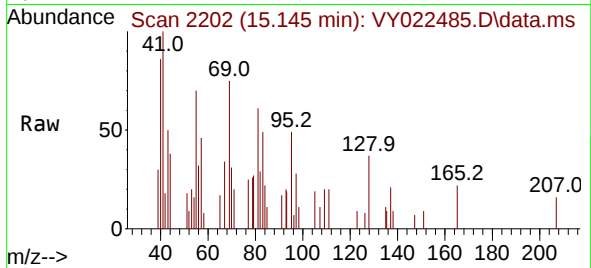




#95
Naphthalene
Concen: 2.958 ug/l
RT: 15.145 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B28-SOIL-SAMPLE

Tgt Ion:128 Resp: 253
Ion Ratio Lower Upper
128 100
127 7.5 10.2 15.4#
129 0.0 8.5 12.7#



#96
1,2,3-Trichlorobenzene
Concen: 2.135 ug/l
RT: 15.303 min Scan# 2228
Delta R.T. -0.024 min
Lab File: VY022485.D
Acq: 30 May 2025 17:48

Tgt Ion:180 Resp: 81
Ion Ratio Lower Upper
180 100
182 0.0 48.1 144.3#
145 379.0 14.9 44.5#

