

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072325\
 Data File : VW031905.D
 Acq On : 23 Jul 2025 12:14
 Operator : SY/MD
 Sample : Q2655-01
 Misc : 4.65g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SOIL

Quant Time: Jul 24 02:50:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	181111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	326280	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	276492	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	99864	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	116753	42.614	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	85.220%
35) Dibromofluoromethane	7.904	113	105231	47.463	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	94.920%
50) Toluene-d8	10.331	98	469807	55.989	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	111.980%
62) 4-Bromofluorobenzene	12.617	95	123722	38.399	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	76.800%

Target Compounds

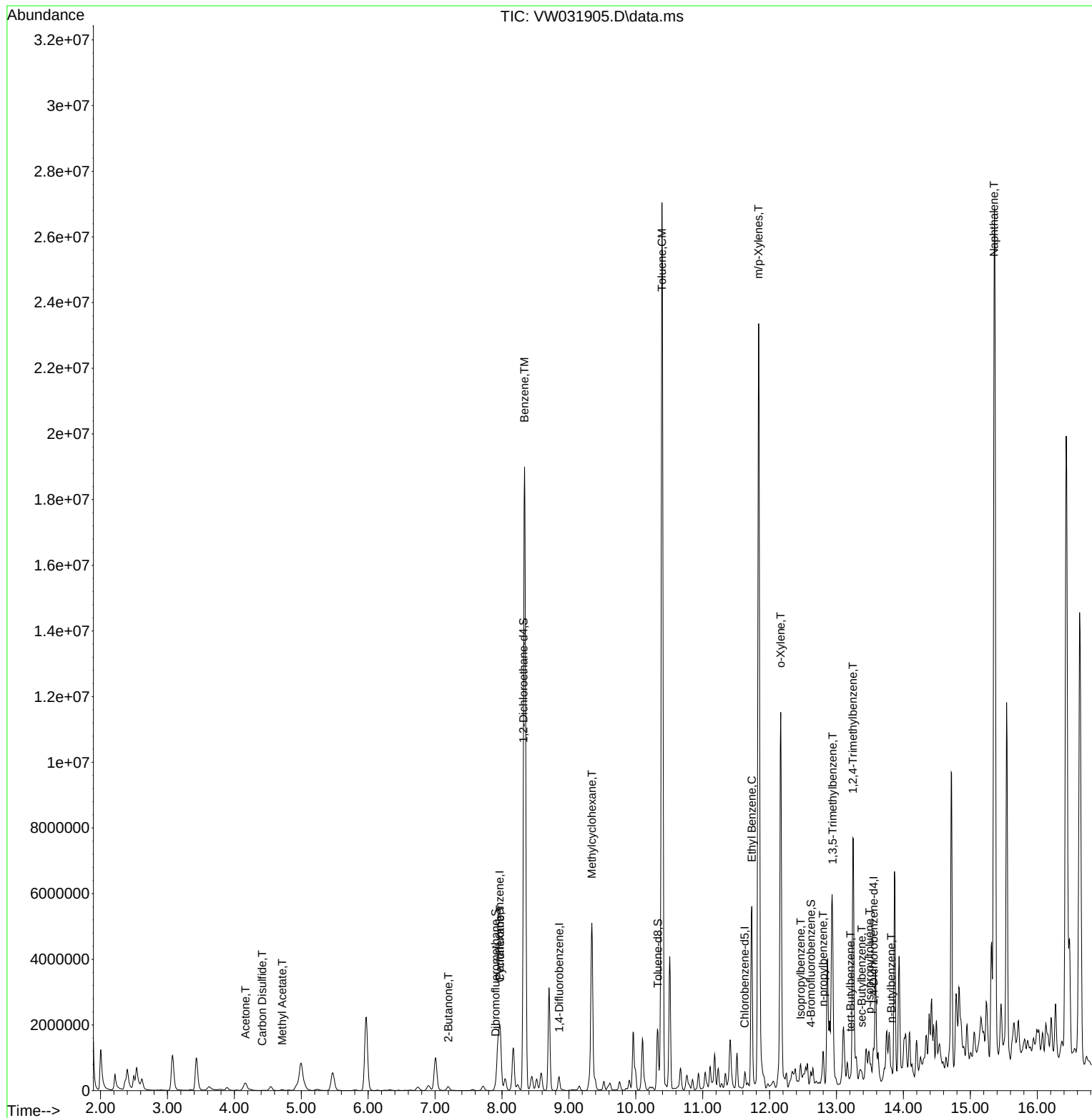
						Qvalue
16) Acetone	4.167	43	408516	628.360	ug/l	94
17) Carbon Disulfide	4.417	76	10590	1.691	ug/l	97
18) Methyl Acetate	4.716	43	57234	31.954	ug/l	100
25) 2-Butanone	7.197	43	168579	189.516	ug/l	97
31) Cyclohexane	7.971	56	1226113	291.801	ug/l	97
39) Methylcyclohexane	9.343	83	2223901	519.007	ug/l	97
40) Benzene	8.337	78	19882152	1972.617	ug/l	94
52) Toluene	10.392	92	12824947	1979.388	ug/l	83
67) Ethyl Benzene	11.733	91	3871373	325.610	ug/l	99
68) m/p-Xylenes	11.837	106	6818717	1523.425	ug/l	90
69) o-Xylene	12.166	106	3029022	715.089	ug/l	98
73) Isopropylbenzene	12.465	105	407973	47.084	ug/l	98
78) n-propylbenzene	12.800	91	851209	79.986	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	2103820	289.500	ug/l	100
83) tert-Butylbenzene	13.208	119	49444	7.988	ug/l	95
84) 1,2,4-Trimethylbenzene	13.245	105	4570343	621.355	ug/l	95
85) sec-Butylbenzene	13.379	105	161352	17.357	ug/l	# 45
86) p-Isopropyltoluene	13.495	119	229593	29.881	ug/l	96
89) n-Butylbenzene	13.818	91	180019	23.883	ug/l	# 78
95) Naphthalene	15.354	128	20490219	3995.760	ug/l	# 91

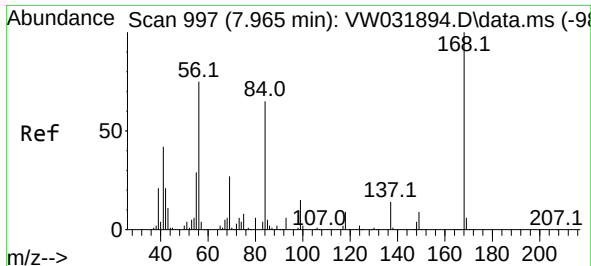
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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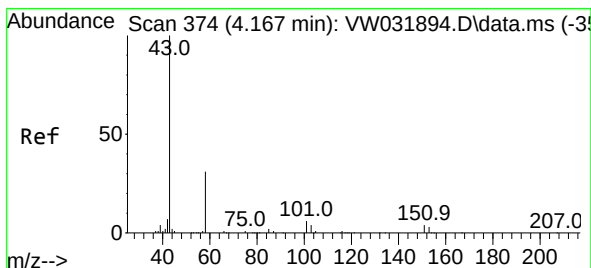
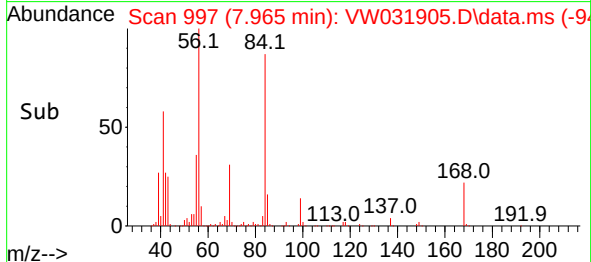
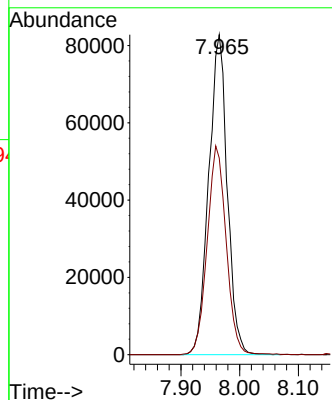
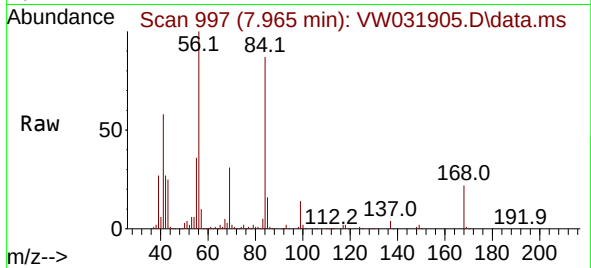




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

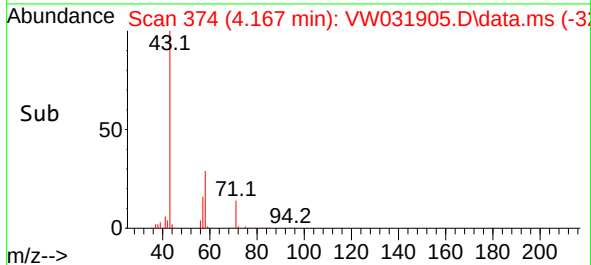
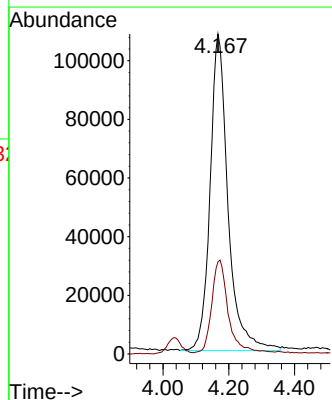
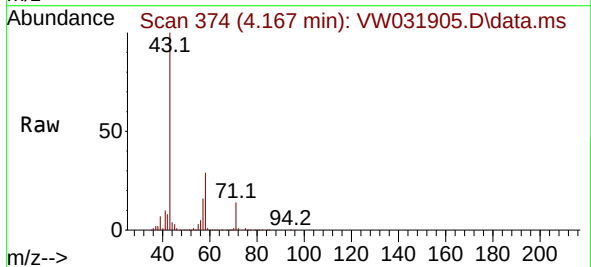
Instrument :
MSVOA_W
ClientSampleId :
SOIL

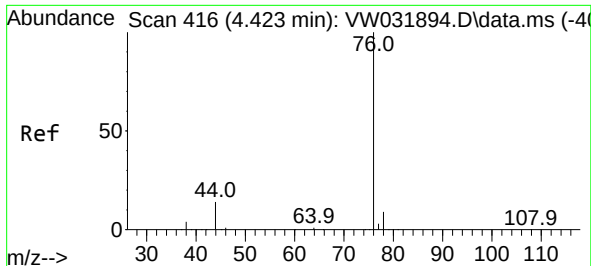
Tgt Ion:168 Resp: 181111
Ion Ratio Lower Upper
168 100
99 61.5 48.2 72.2



#16
Acetone
Concen: 628.360 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion: 43 Resp: 408516
Ion Ratio Lower Upper
43 100
58 28.4 25.5 38.3

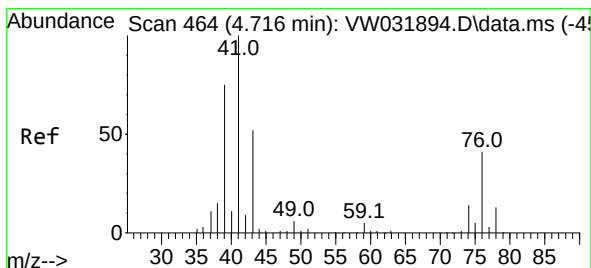
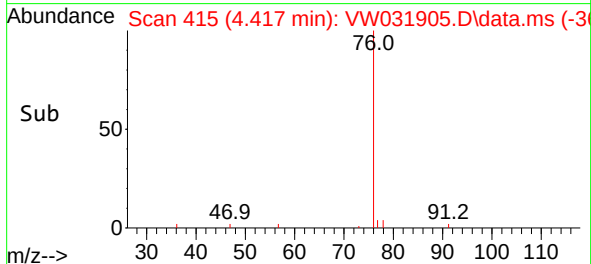
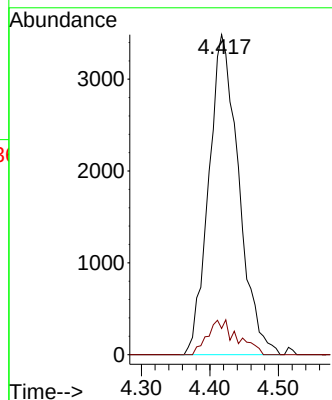
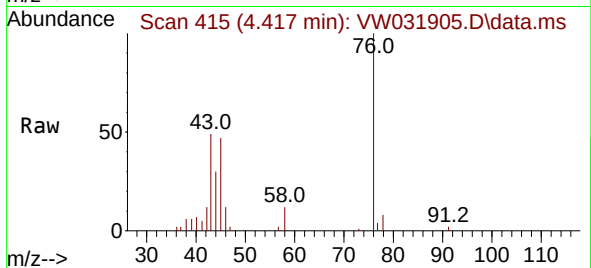




#17
Carbon Disulfide
Concen: 1.691 ug/l
RT: 4.417 min Scan# 415
Delta R.T. -0.006 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

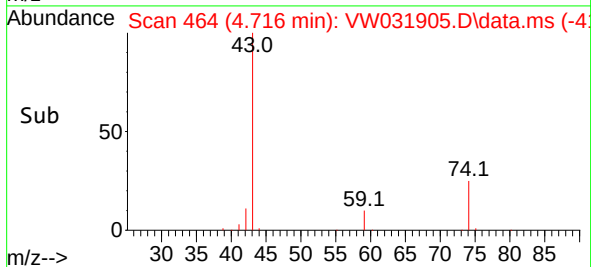
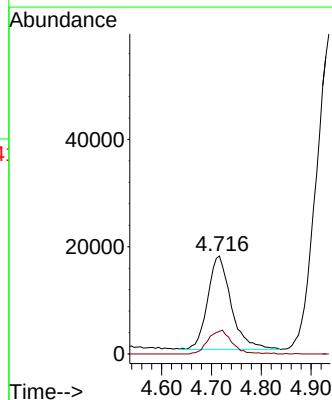
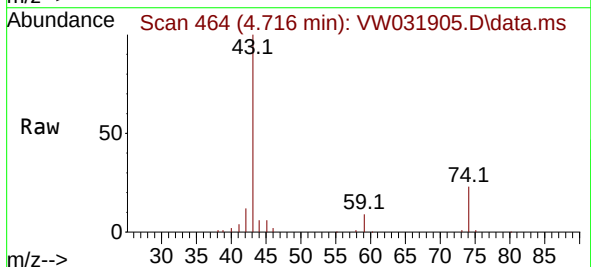
Instrument :
MSVOA_W
ClientSampleId :
SOIL

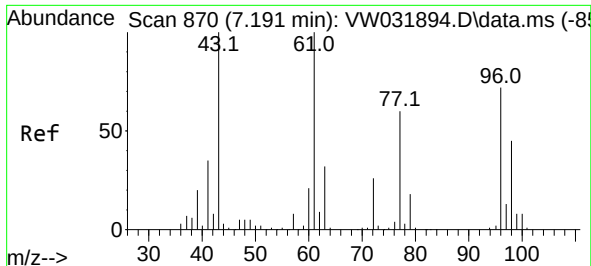
Tgt Ion: 76 Resp: 10590
Ion Ratio Lower Upper
76 100
78 8.2 7.5 11.3



#18
Methyl Acetate
Concen: 31.954 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion: 43 Resp: 57234
Ion Ratio Lower Upper
43 100
74 25.6 20.6 31.0

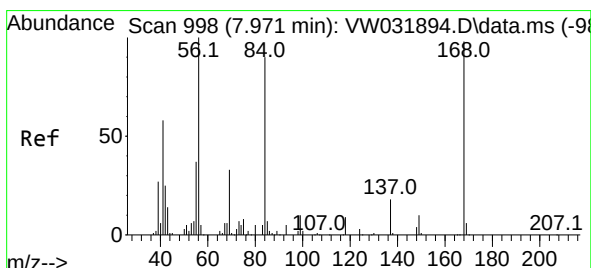
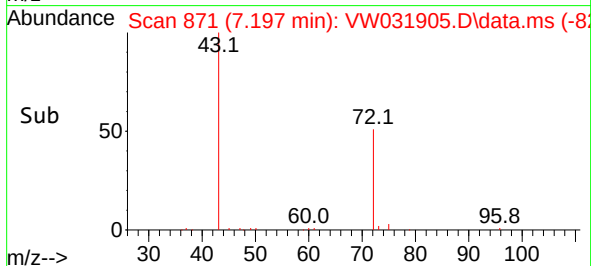
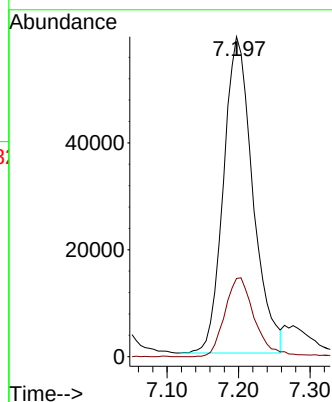
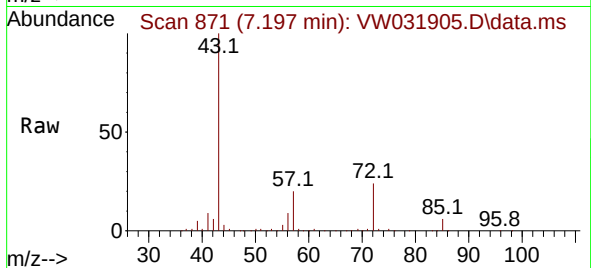




#25
2-Butanone
Concen: 189.516 ug/l
RT: 7.197 min Scan# 871
Delta R.T. 0.006 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

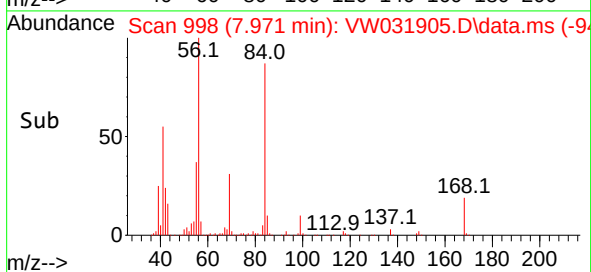
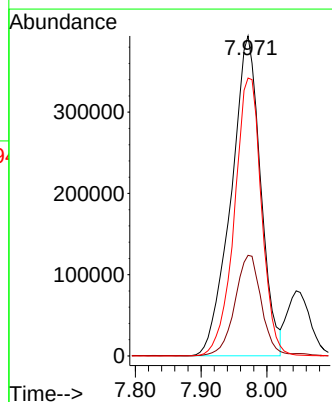
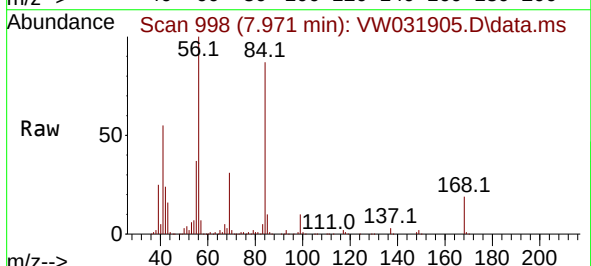
Instrument :
MSVOA_W
ClientSampleId :
SOIL

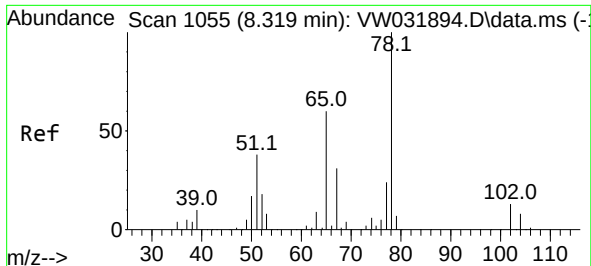
Tgt Ion: 43 Resp: 168579
Ion Ratio Lower Upper
43 100
72 24.7 20.8 31.2



#31
Cyclohexane
Concen: 291.801 ug/l
RT: 7.971 min Scan# 998
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion: 56 Resp: 1226113
Ion Ratio Lower Upper
56 100
69 31.3 26.7 40.1
84 86.9 71.8 107.6

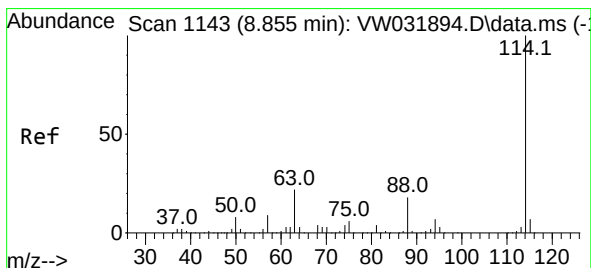
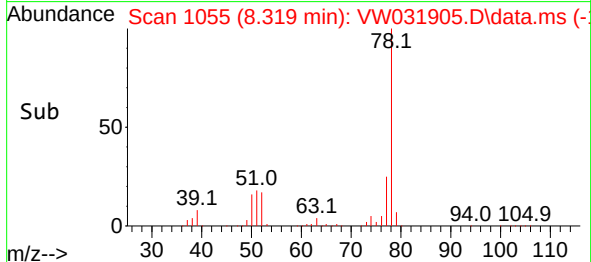
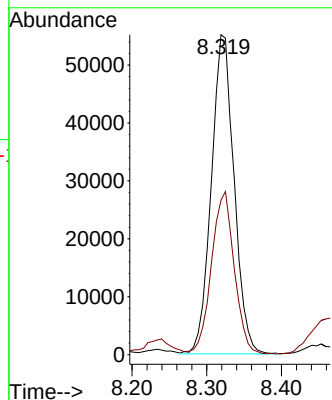
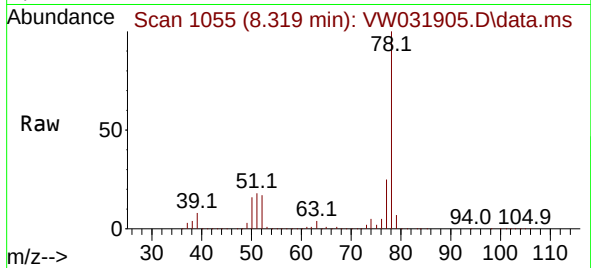




#33
 1,2-Dichloroethane-d4
 Concen: 42.614 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW031905.D
 Acq: 23 Jul 2025 12:14

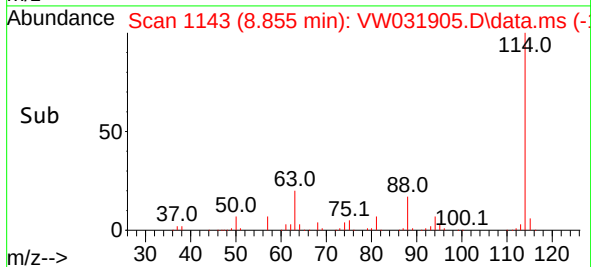
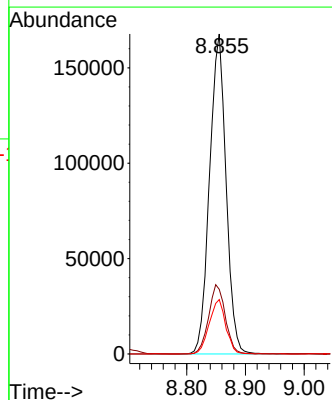
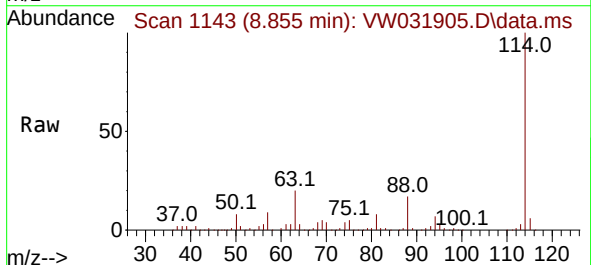
Instrument :
 MSVOA_W
 ClientSampleId :
 SOIL

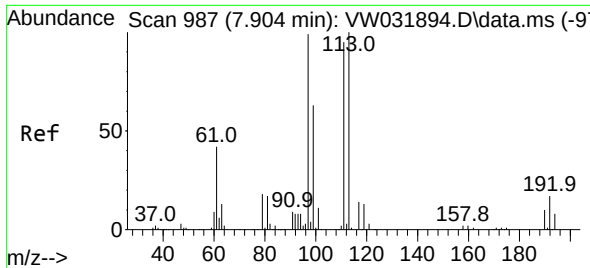
Tgt Ion: 65 Resp: 116753
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.000 min
 Lab File: VW031905.D
 Acq: 23 Jul 2025 12:14

Tgt Ion: 114 Resp: 326280
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 44.2
 88 17.0 0.0 35.6

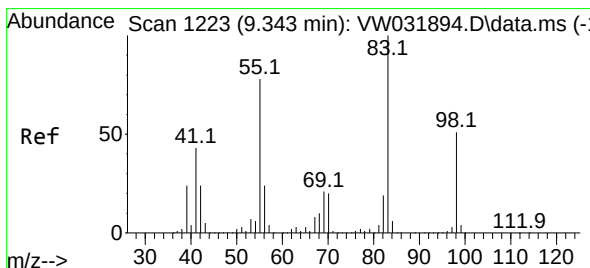
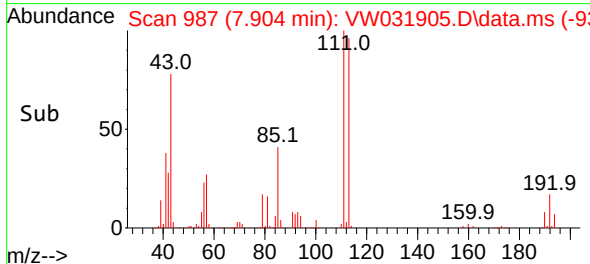
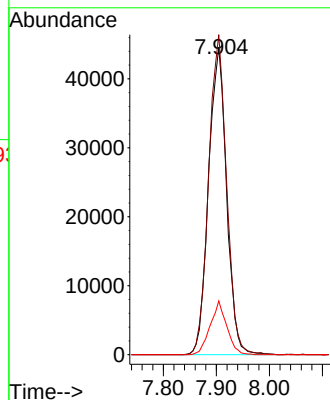
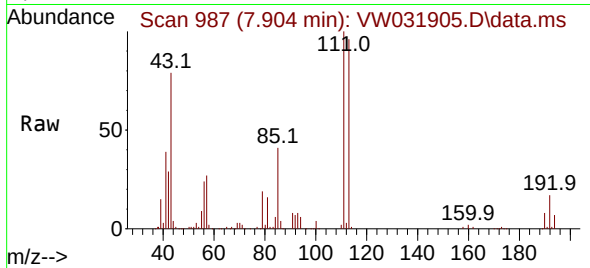




#35
Dibromofluoromethane
Concen: 47.463 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

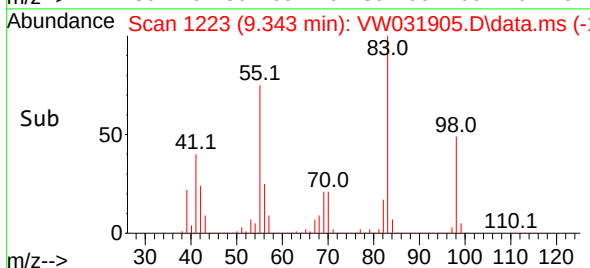
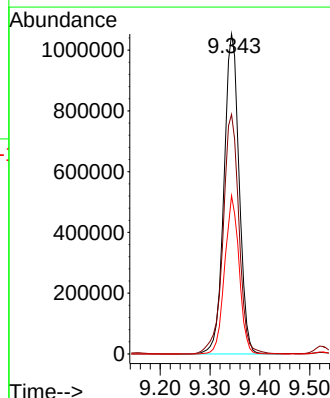
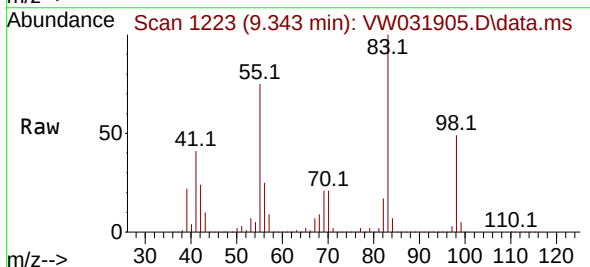
Instrument :
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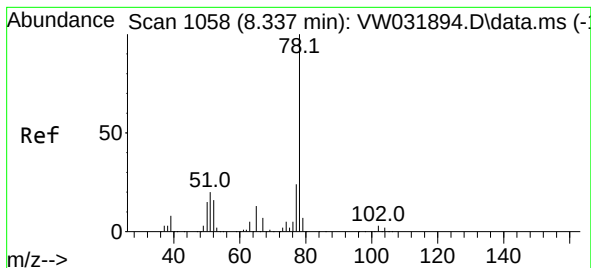
Tgt Ion:113 Resp: 105231
Ion Ratio Lower Upper
113 100
111 103.6 79.9 119.9
192 16.1 12.6 19.0



#39
Methylcyclohexane
Concen: 519.007 ug/l
RT: 9.343 min Scan# 1223
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion: 83 Resp: 2223901
Ion Ratio Lower Upper
83 100
55 74.8 62.5 93.7
98 49.4 40.6 61.0





#40

Benzene

Concen: 1972.617 ug/l

RT: 8.337 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

Instrument :

MSVOA_W

ClientSampleId :

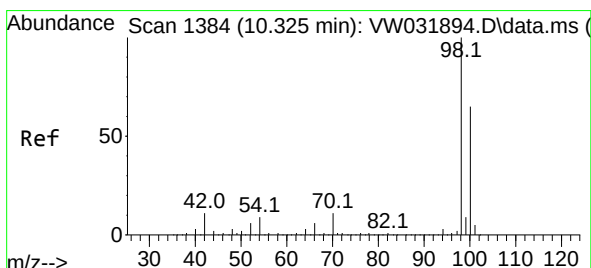
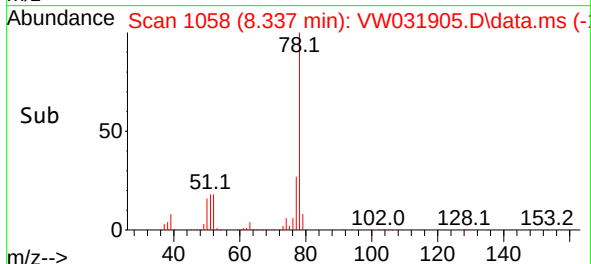
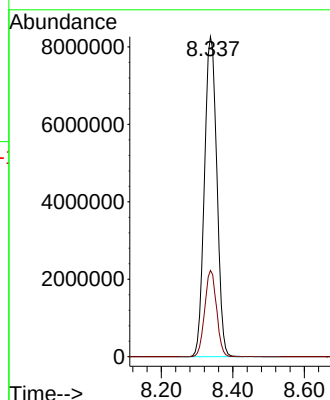
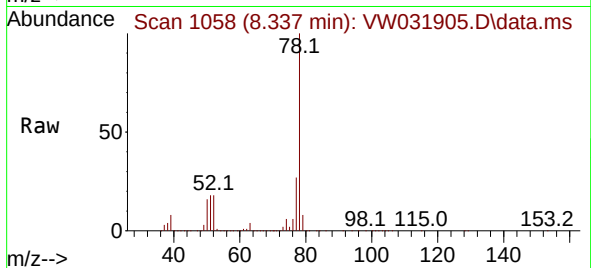
SOIL

Tgt Ion: 78 Resp:19882152

Ion Ratio Lower Upper

78 100

77 27.0 19.3 28.9



#50

Toluene-d8

Concen: 55.989 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW031905.D

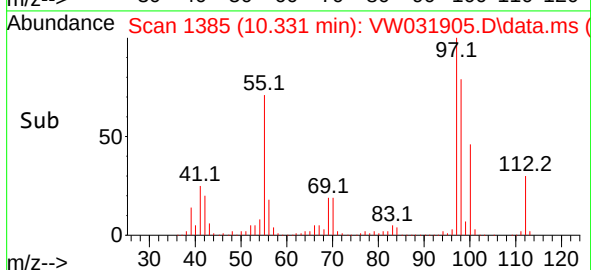
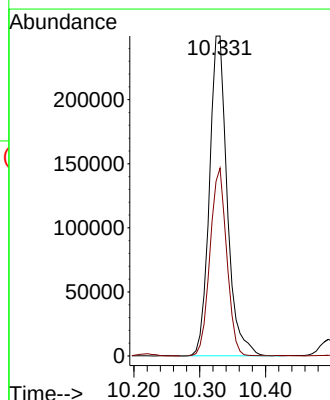
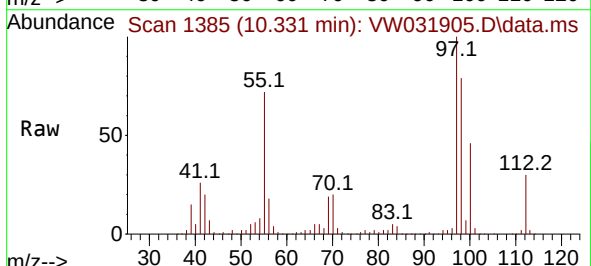
Acq: 23 Jul 2025 12:14

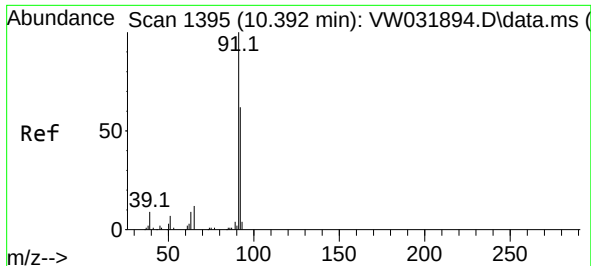
Tgt Ion: 98 Resp: 469807

Ion Ratio Lower Upper

98 100

100 55.0 51.7 77.5

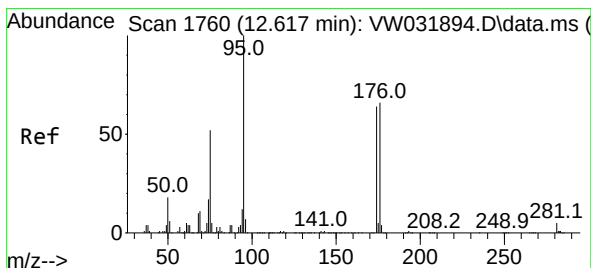
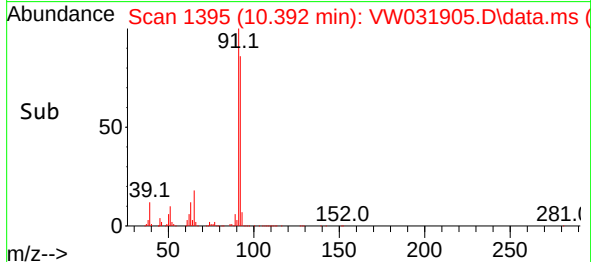
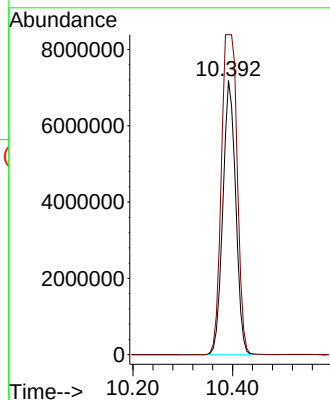
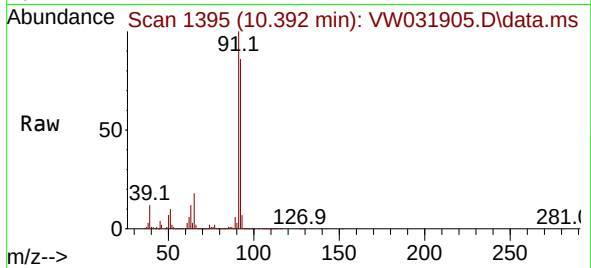




#52
Toluene
Concen: 1979.388 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

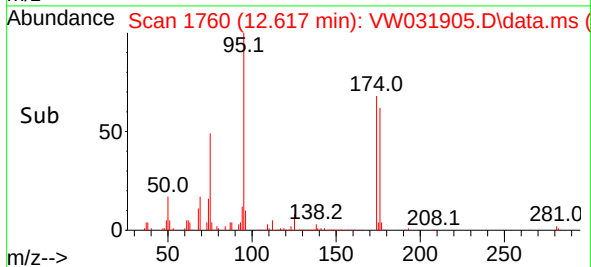
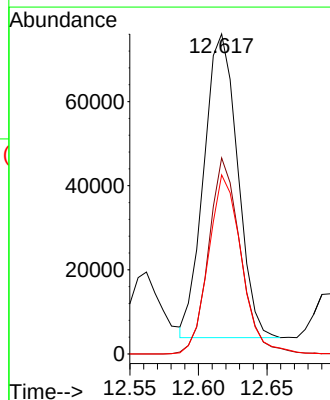
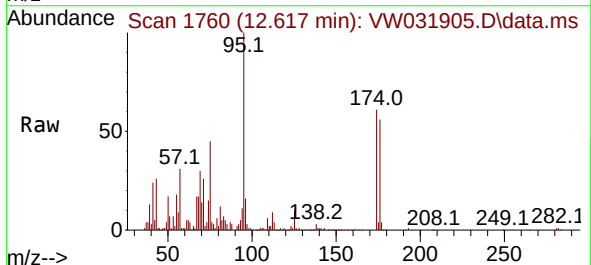
Instrument :
MSVOA_W
ClientSampleId :
SOIL

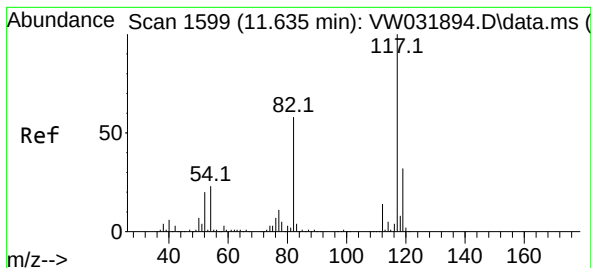
Tgt Ion: 92 Resp:12824947
Ion Ratio Lower Upper
92 100
91 144.0 133.7 200.5



#62
4-Bromofluorobenzene
Concen: 38.399 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion: 95 Resp: 123722
Ion Ratio Lower Upper
95 100
174 61.0 0.0 129.8
176 57.9 0.0 130.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

Instrument :

MSVOA_W

ClientSampleId :

SOIL

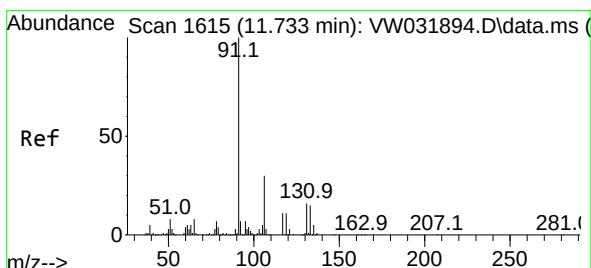
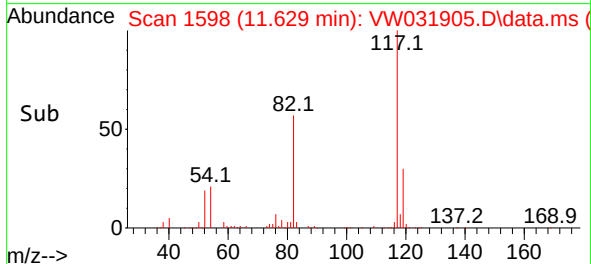
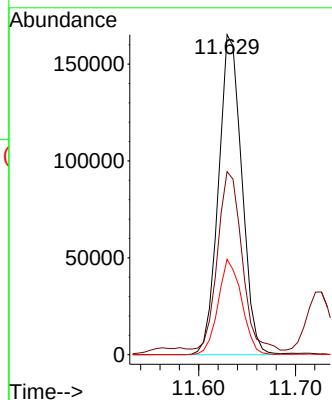
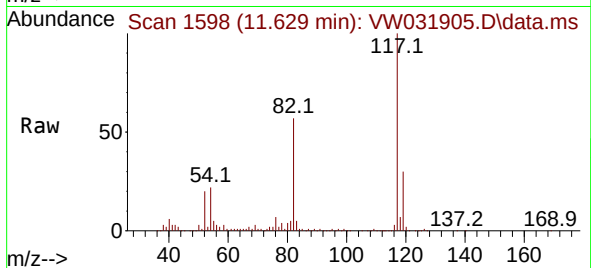
Tgt Ion:117 Resp: 276492

Ion Ratio Lower Upper

117 100

82 55.8 46.5 69.7

119 29.8 25.8 38.6



#67

Ethyl Benzene

Concen: 325.610 ug/l

RT: 11.733 min Scan# 1615

Delta R.T. 0.000 min

Lab File: VW031905.D

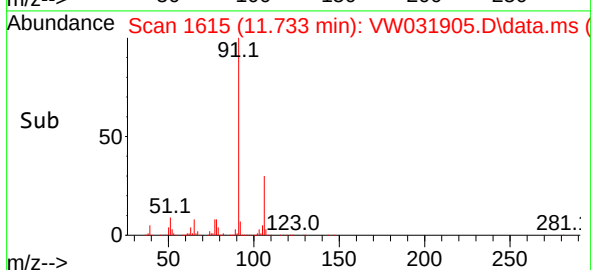
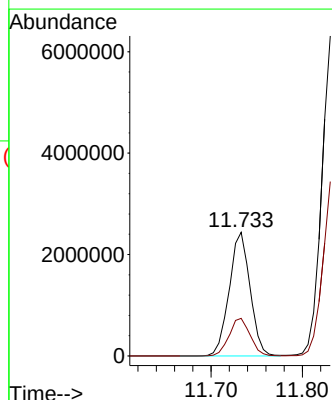
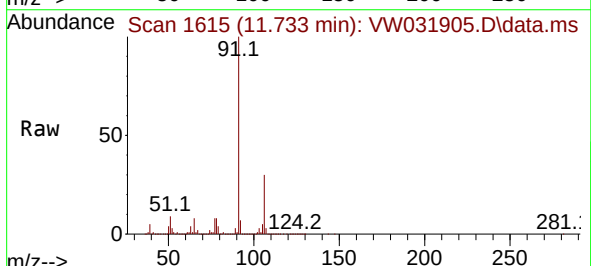
Acq: 23 Jul 2025 12:14

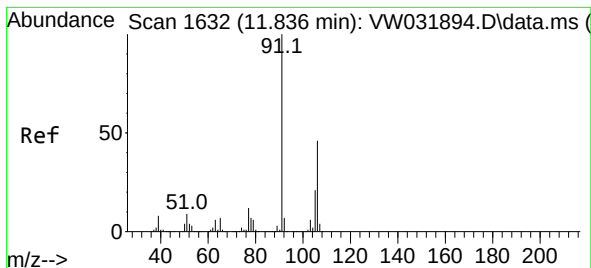
Tgt Ion: 91 Resp: 3871373

Ion Ratio Lower Upper

91 100

106 30.5 23.8 35.6

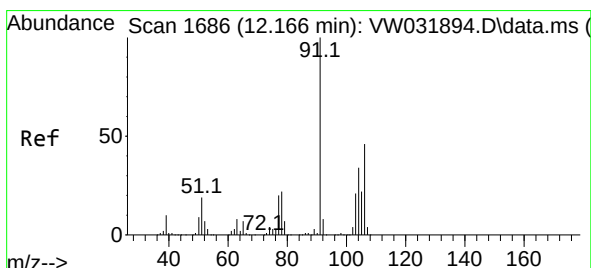
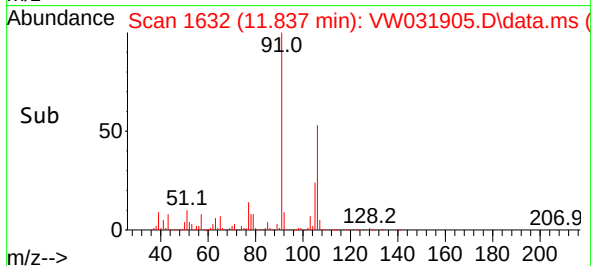
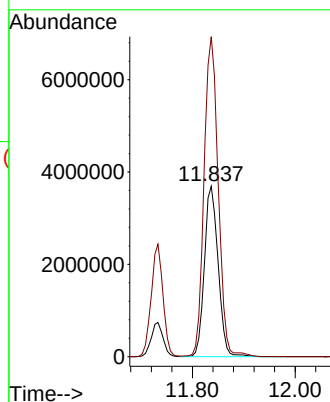
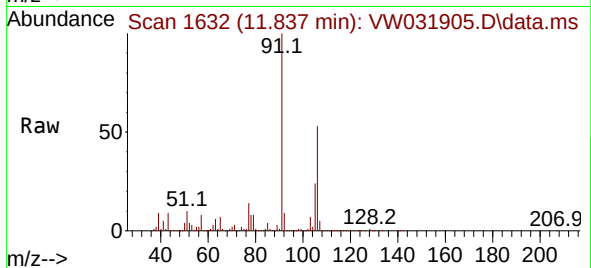




#68
m/p-Xylenes
Concen: 1523.425 ug/l
RT: 11.837 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

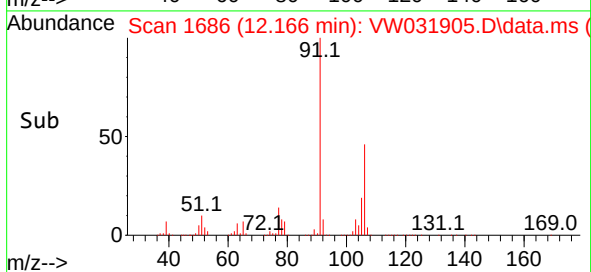
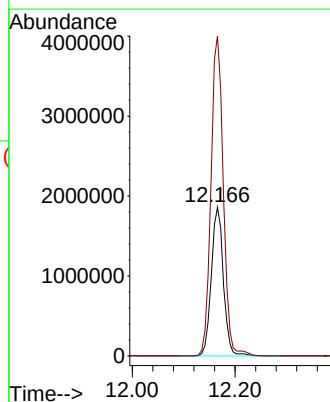
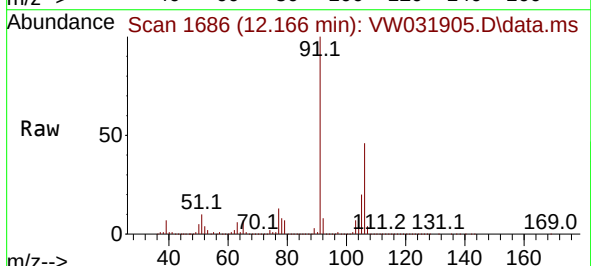
Instrument :
MSVOA_W
ClientSampleId :
SOIL

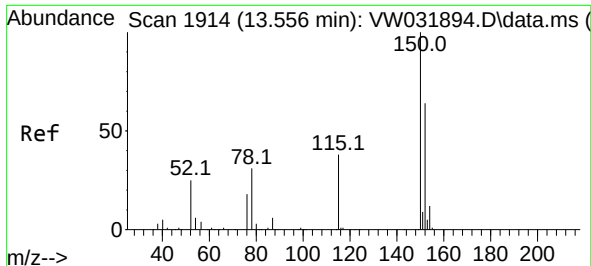
Tgt Ion:106 Resp: 6818717
Ion Ratio Lower Upper
106 100
91 194.1 167.7 251.5



#69
o-Xylene
Concen: 715.089 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion:106 Resp: 3029022
Ion Ratio Lower Upper
106 100
91 219.7 108.2 324.6

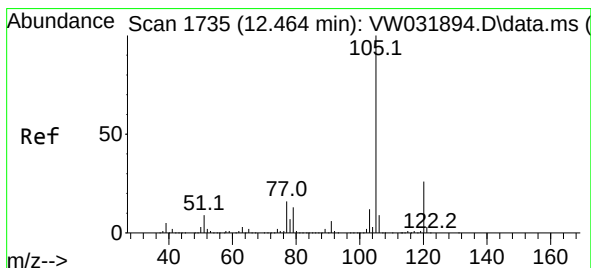
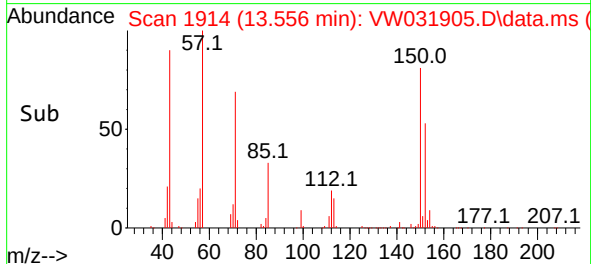
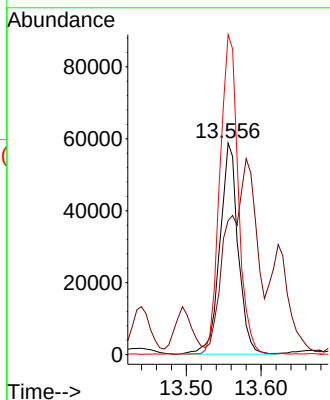
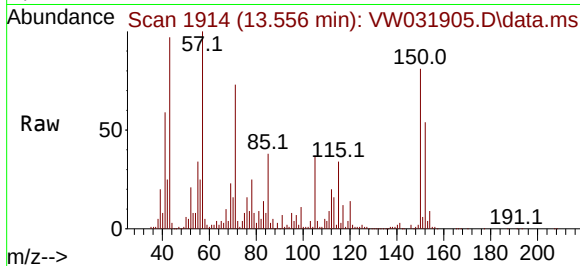




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

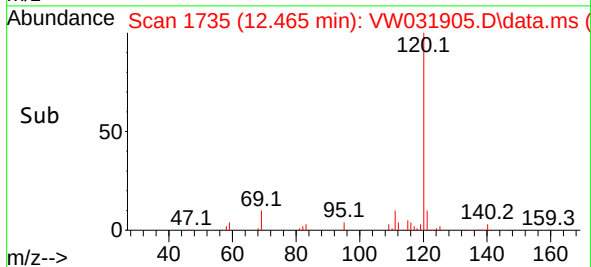
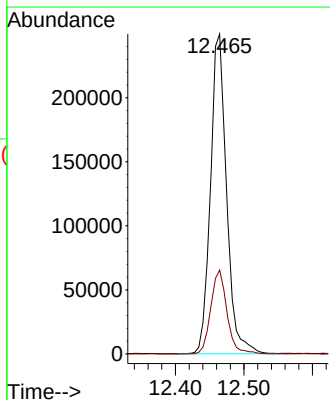
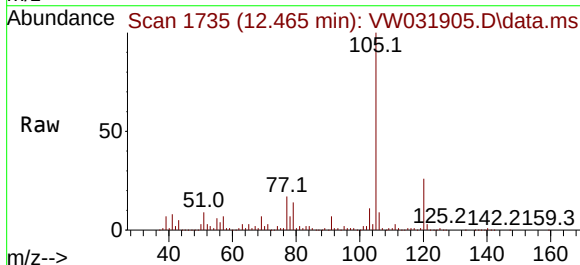
Instrument :
MSVOA_W
ClientSampleId :
SOIL

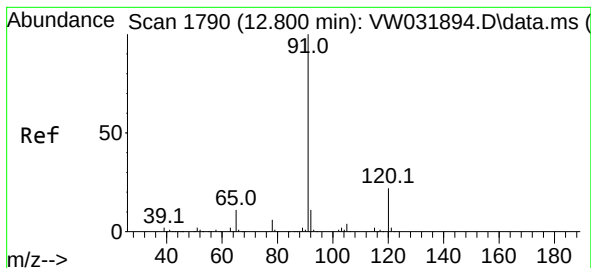
Tgt Ion	Ratio	Lower	Upper
152	100		
115	0.0	33.4	100.1#
150	151.7	0.0	352.2



#73
Isopropylbenzene
Concen: 47.084 ug/l
RT: 12.465 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	12.6	37.8





#78

n-propylbenzene

Concen: 79.986 ug/l

RT: 12.800 min Scan# 1790

Delta R.T. 0.000 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

Instrument :

MSVOA_W

ClientSampleId :

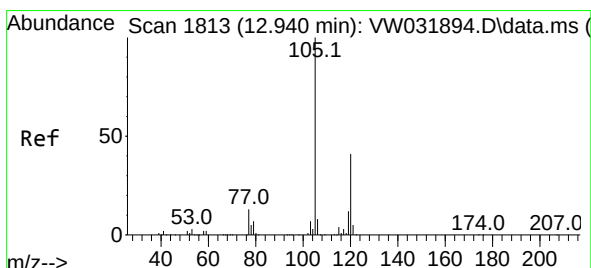
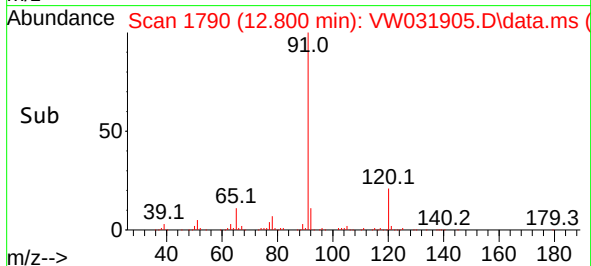
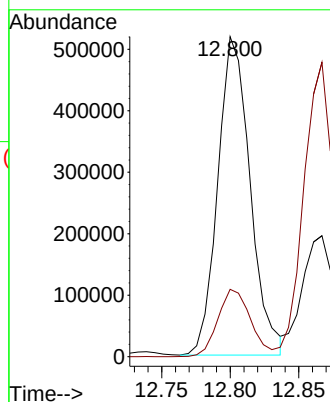
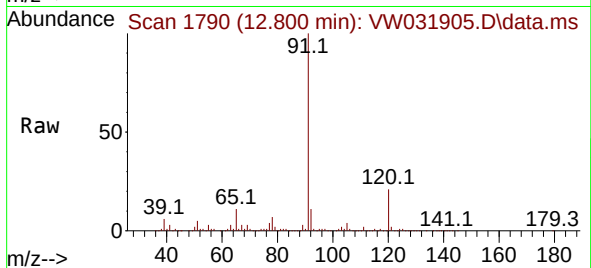
SOIL

Tgt Ion: 91 Resp: 851209

Ion Ratio Lower Upper

91 100

120 21.4 10.9 32.6



#80

1,3,5-Trimethylbenzene

Concen: 289.500 ug/l

RT: 12.940 min Scan# 1813

Delta R.T. 0.000 min

Lab File: VW031905.D

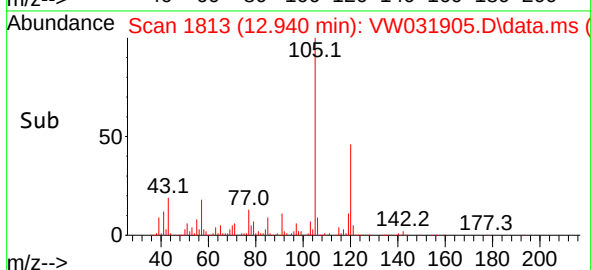
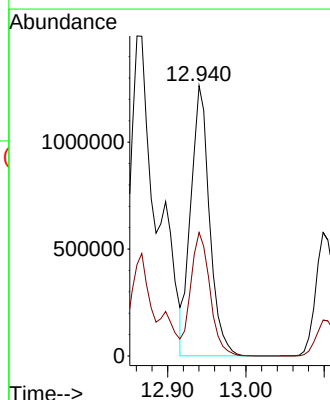
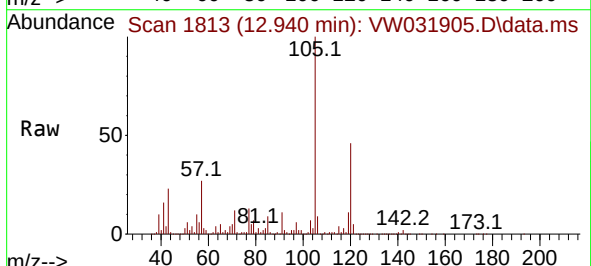
Acq: 23 Jul 2025 12:14

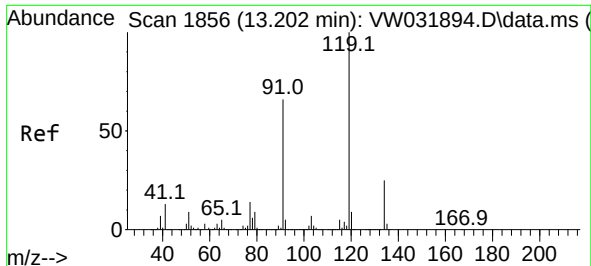
Tgt Ion:105 Resp: 2103820

Ion Ratio Lower Upper

105 100

120 47.0 23.5 70.5

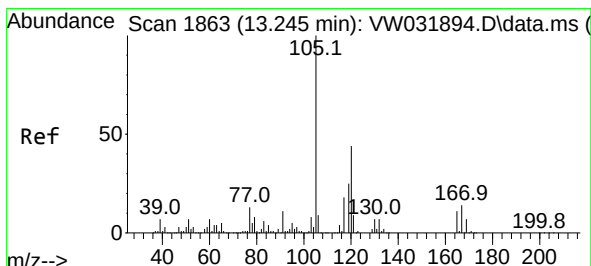
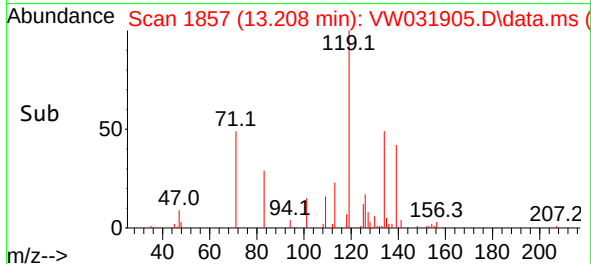
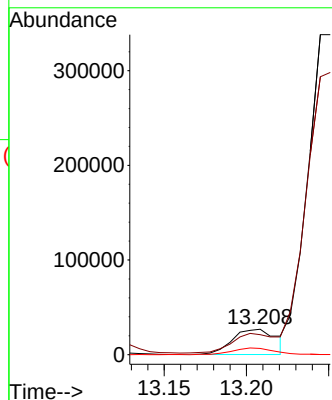
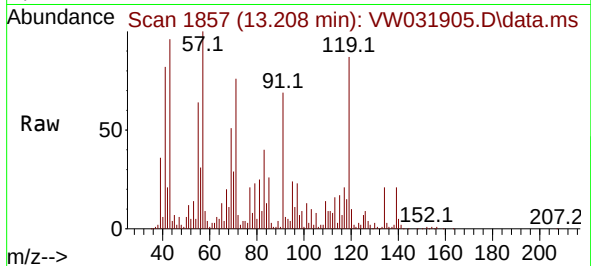




#83
tert-Butylbenzene
Concen: 7.988 ug/l
RT: 13.208 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

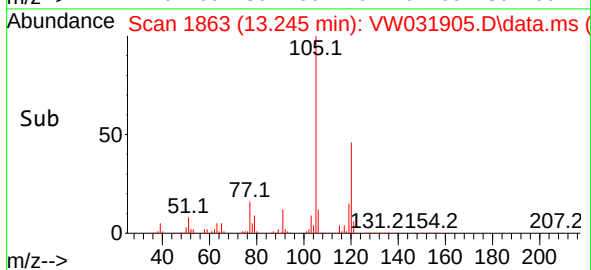
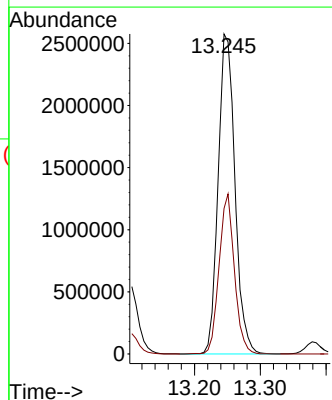
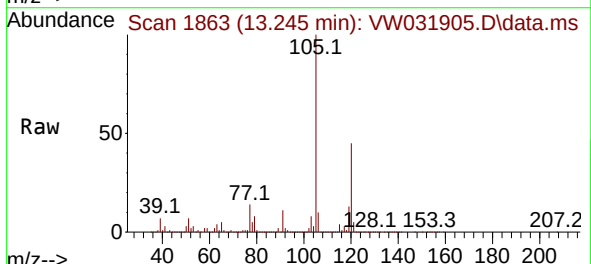
Instrument :
MSVOA_W
ClientSampleId :
SOIL

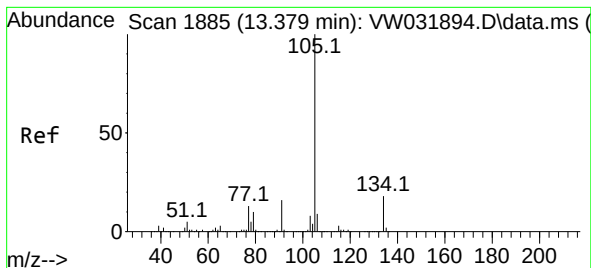
Tgt Ion:119 Resp: 49444
Ion Ratio Lower Upper
119 100
91 66.6 35.5 106.5
134 26.0 12.4 37.0



#84
1,2,4-Trimethylbenzene
Concen: 621.355 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW031905.D
Acq: 23 Jul 2025 12:14

Tgt Ion:105 Resp: 4570343
Ion Ratio Lower Upper
105 100
120 45.8 21.3 63.9





#85

sec-Butylbenzene

Concen: 17.357 ug/l

RT: 13.379 min Scan# 1885

Delta R.T. 0.000 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

Instrument :

MSVOA_W

ClientSampleId :

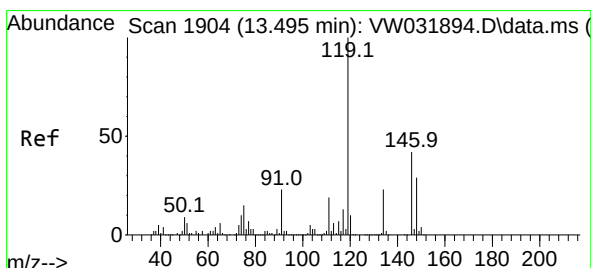
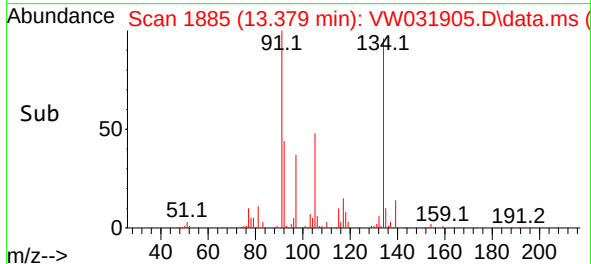
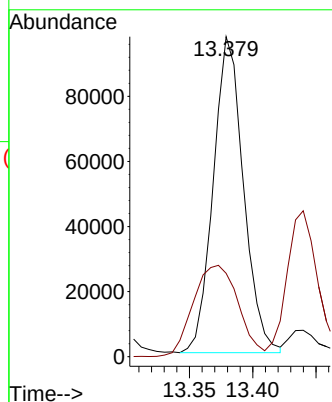
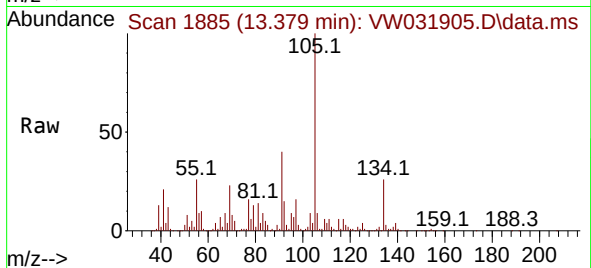
SOIL

Tgt Ion:105 Resp: 161352

Ion Ratio Lower Upper

105 100

134 42.7 9.2 27.6#



#86

p-Isopropyltoluene

Concen: 29.881 ug/l

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

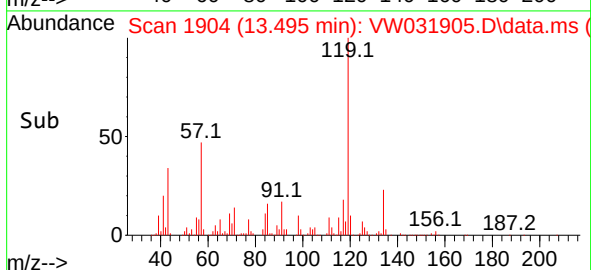
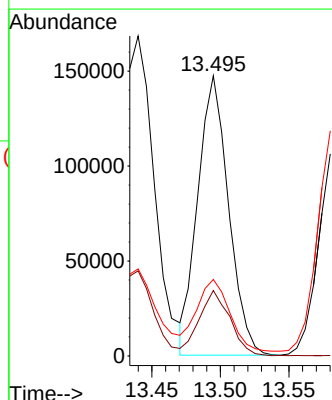
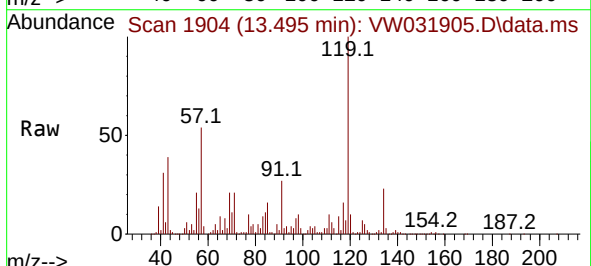
Tgt Ion:119 Resp: 229593

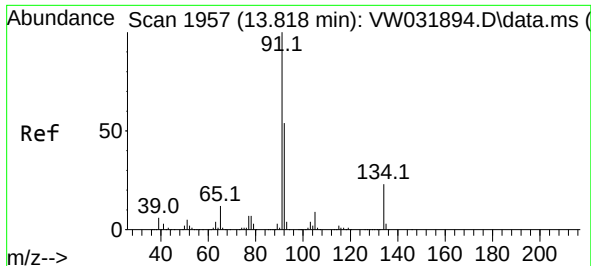
Ion Ratio Lower Upper

119 100

134 23.4 13.0 39.0

91 27.3 12.7 38.1





#89

n-Butylbenzene

Concen: 23.883 ug/l

RT: 13.818 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

Instrument :

MSVOA_W

ClientSampleId :

SOIL

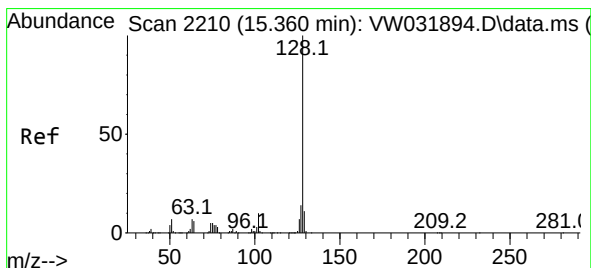
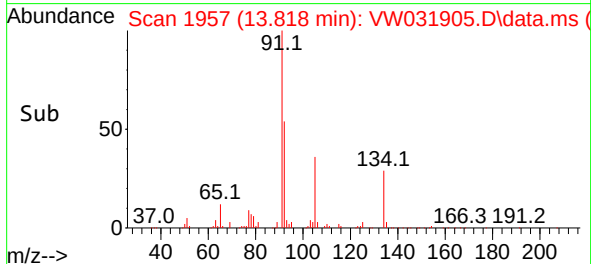
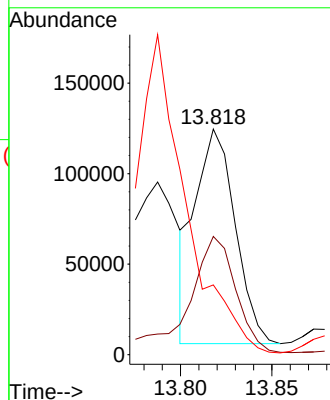
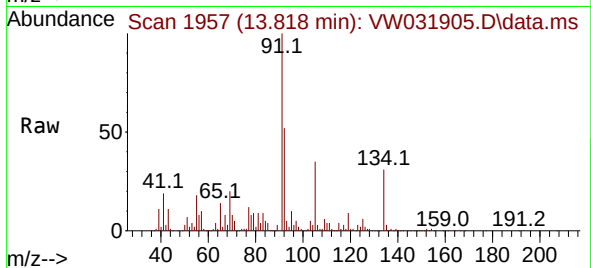
Tgt Ion: 91 Resp: 180019

Ion Ratio Lower Upper

91 100

92 62.4 27.2 81.5

134 0.0 11.6 34.7#



#95

Naphthalene

Concen: 3995.760 ug/l

RT: 15.354 min Scan# 2209

Delta R.T. -0.006 min

Lab File: VW031905.D

Acq: 23 Jul 2025 12:14

Tgt Ion:128 Resp:20490219

Ion Ratio Lower Upper

128 100

127 16.9 10.7 16.1#

129 15.0 9.2 13.8#

