

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083119\
 Data File : VU034089.D
 Acq On : 30 Aug 2019 11:38
 Operator : JC/SP
 Sample : K4559-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SOIL-SAMPLE-4

Quant Time: Aug 30 15:40:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	446201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	738858	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	728243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	392005	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	290005	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
35) Dibromofluoromethane	4.86	113	243815	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	7.55	98	960318	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	10.29	95	341150	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	

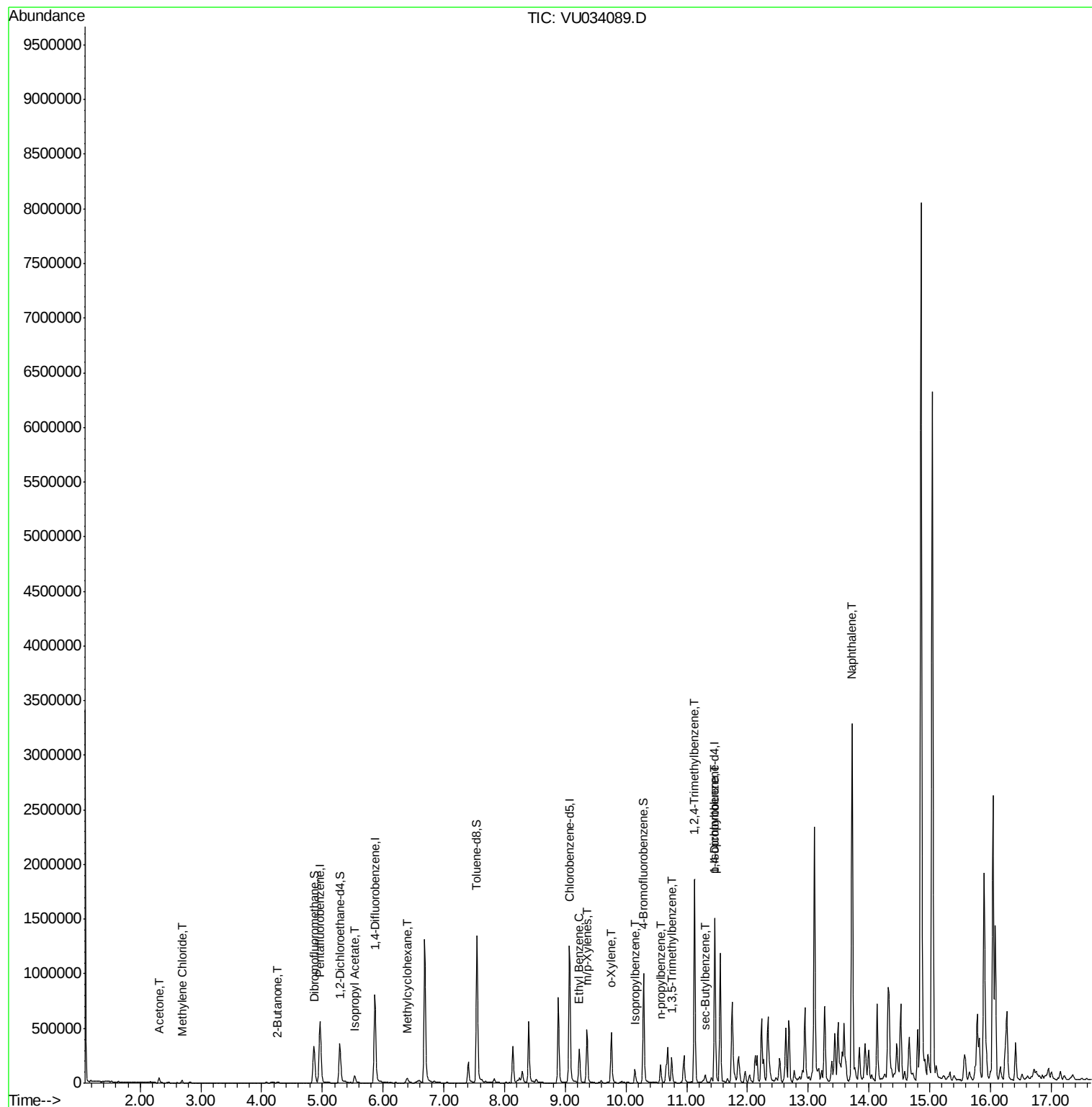
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.31	43	50197	17.207	ug/l	100
20) Methylene Chloride	2.69	84	11638	2.107	ug/l	97
25) 2-Butanone	4.26	43	11457	2.823	ug/l	100
39) Methylcyclohexane	6.40	83	16680	2.025	ug/l	97
43) Isopropyl Acetate	5.53	43	80731	6.781	ug/l	98
67) Ethyl Benzene	9.23	91	225533	8.878	ug/l	100
68) m/p-Xylenes	9.36	106	139829	14.476	ug/l	100
69) o-Xylene	9.76	106	111775	12.061	ug/l	99
73) Isopropylbenzene	10.15	105	80424	3.054	ug/l	99
78) n-propylbenzene	10.57	91	129828	4.234	ug/l	99
80) 1,3,5-Trimethylbenzene	10.76	105	126544	5.670	ug/l	100
84) 1,2,4-Trimethylbenzene	11.13	105	1004085	45.310	ug/l	99
85) sec-Butylbenzene	11.31	105	43708	1.660	ug/l	99
86) p-Isopropyltoluene	11.46	119	38167	1.603	ug/l	95
95) Naphthalene	13.72	128	2566538	102.927	ug/l	99

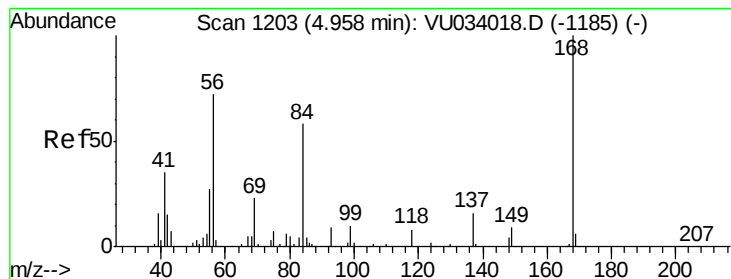
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

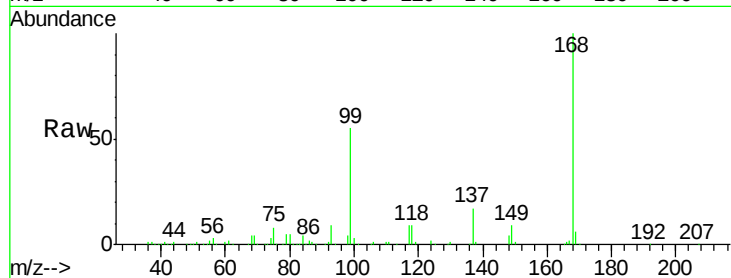
SOIL-SAMPLE-4

Tot Ion:168 Resp: 446201

Ion Ratio Lower Upper

168 100

99 54.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

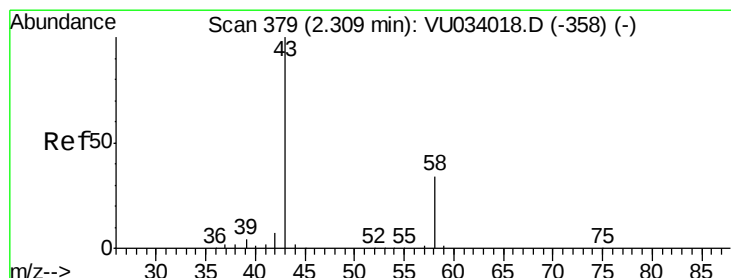
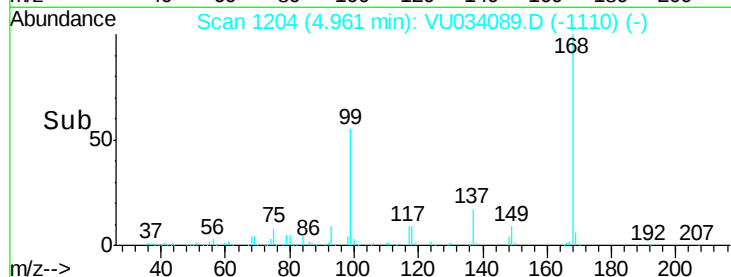
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 17.207 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034089.D

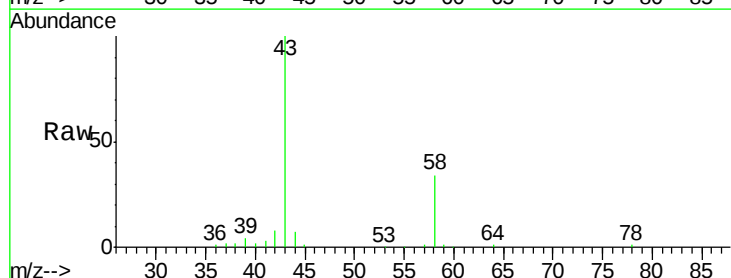
Acq: 30 Aug 2019 11:38

Tgt Ion: 43 Resp: 50197

Ion Ratio Lower Upper

43 100

58 33.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)

2.31

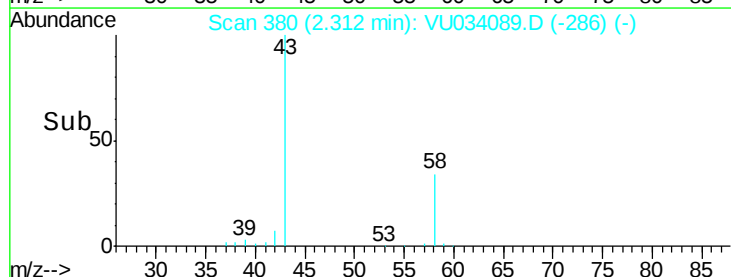
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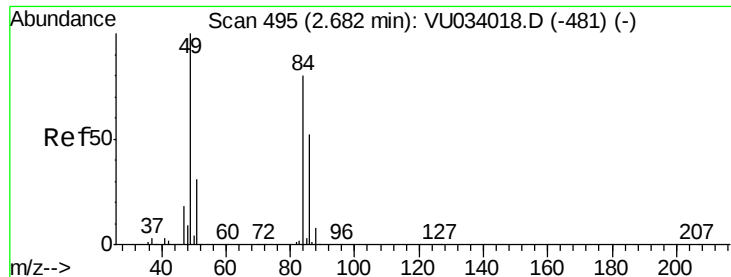
20000

10000

0

Time-->

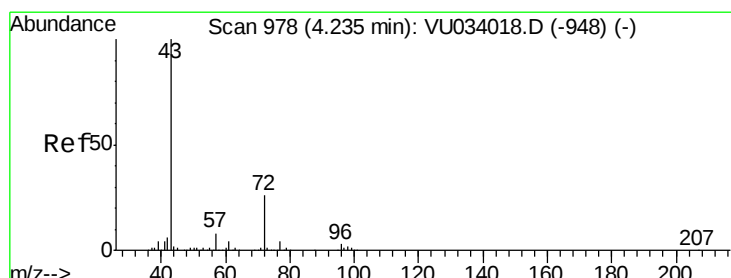
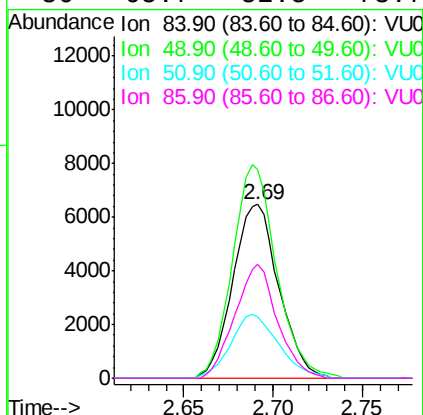
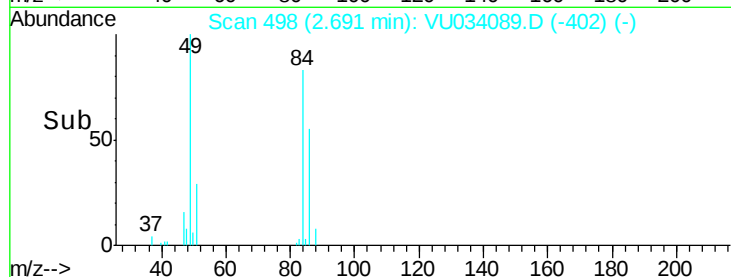
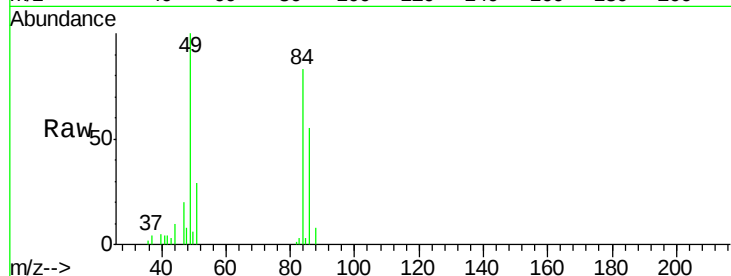




#20
Methvlene Chloride
Concen: 2.107 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034089.D
Acq: 30 Aug 2019 11:38

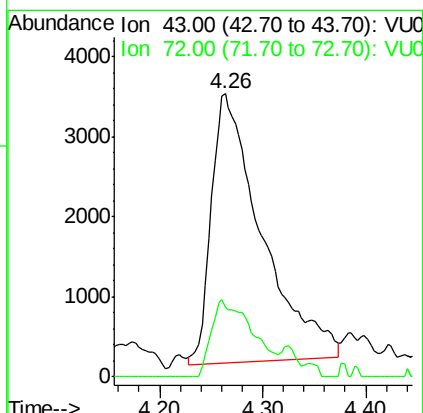
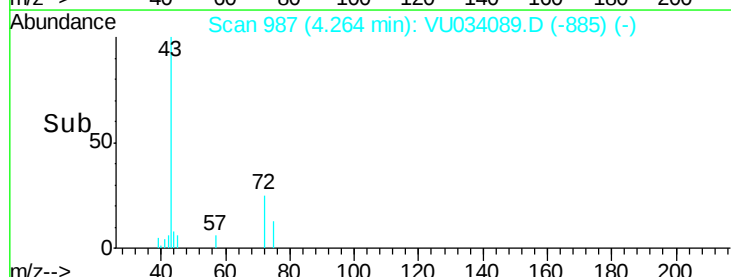
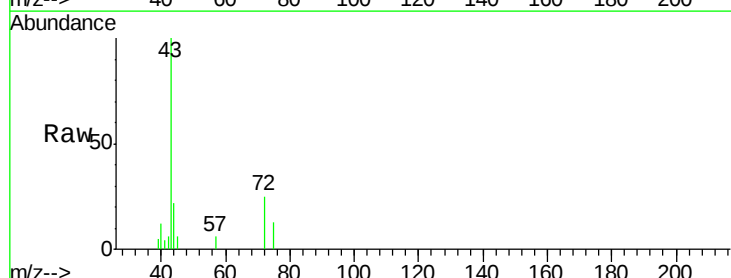
Instrument :
MSVOA_U
ClientSampleId :
SOIL-SAMPLE-4

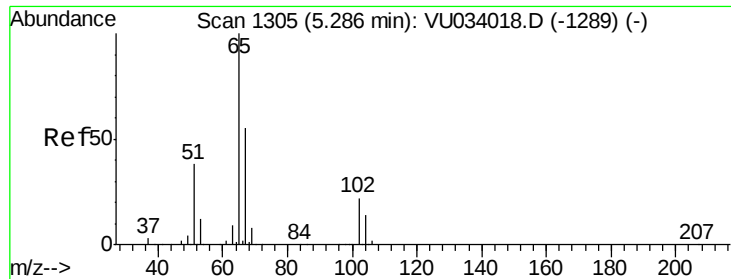
Tot Ion: 84 Resp: 11638
Ion Ratio Lower Upper
84 100
49 120.3 100.2 150.4
51 35.2 30.8 46.2
86 65.7 52.5 78.7



#25
2-Butanone
Concen: 2.823 ug/l
RT: 4.26 min Scan# 987
Delta R.T. 0.03 min
Lab File: VU034089.D
Acq: 30 Aug 2019 11:38

Tgt Ion: 43 Resp: 11457
Ion Ratio Lower Upper
43 100
72 26.5 21.2 31.8





#33

1,2-Dichloroethane-d4

Concen: 50.724 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

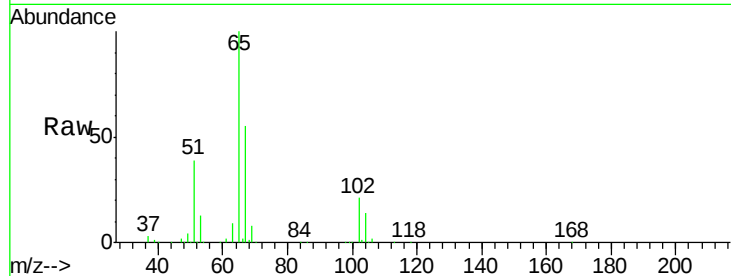
SOIL-SAMPLE-4

Tot Ion: 65 Resp: 290005

Ion Ratio Lower Upper

65 100

67 54.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034018.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034018.D (-1289) (-)

5.29

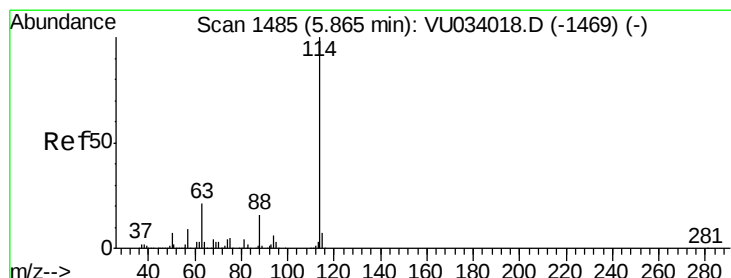
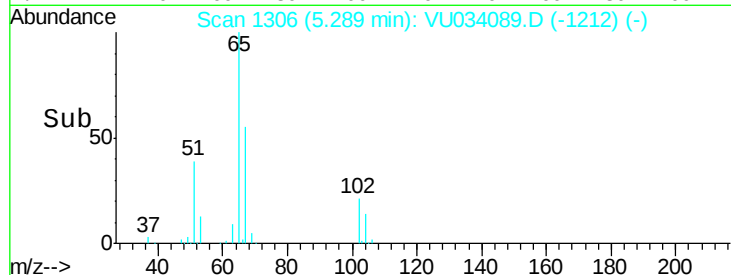
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

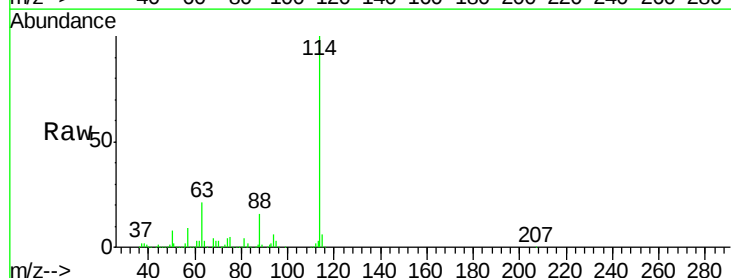
Tgt Ion: 114 Resp: 738858

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.0

88 16.1 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034018.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034018.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034018.D (-1469) (-)

5.87

400000

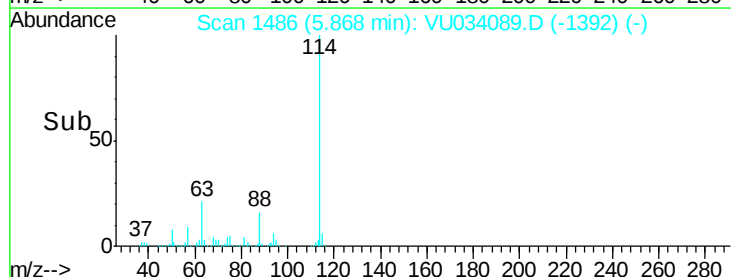
300000

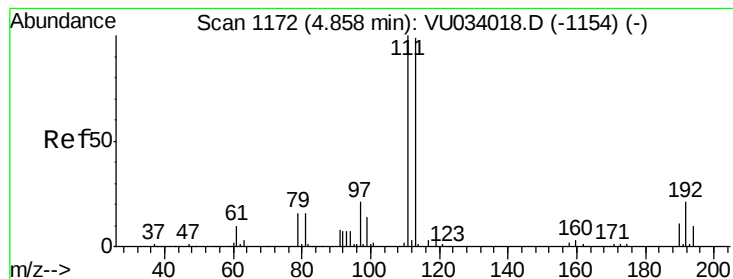
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.577 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

SOIL-SAMPLE-4

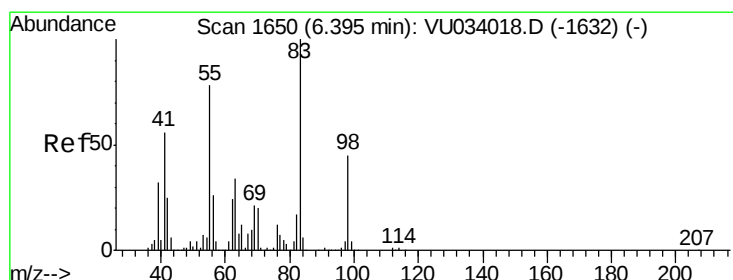
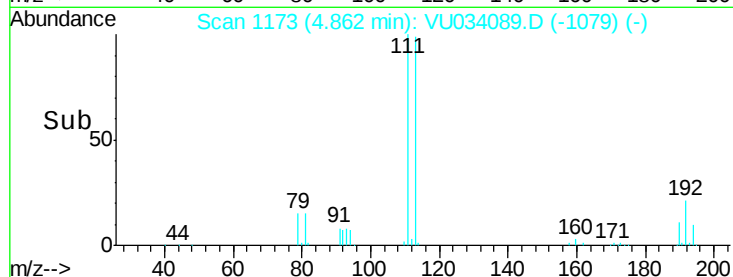
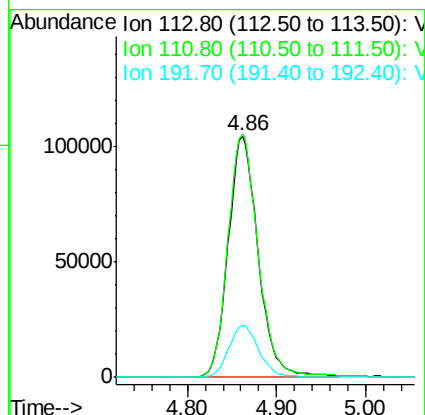
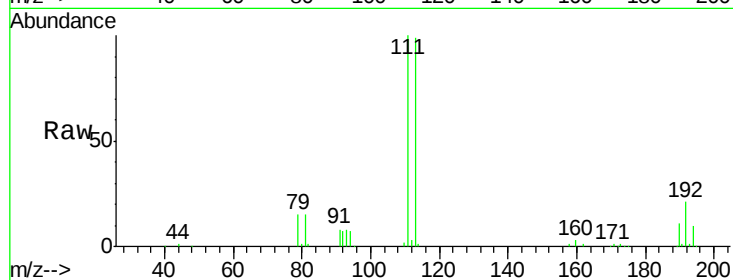
Tot Ion:113 Resp: 243815

Ion Ratio Lower Upper

113 100

111 101.3 81.7 122.5

192 21.8 17.1 25.7



#39

Methylcyclohexane

Concen: 2.025 ug/l

RT: 6.40 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

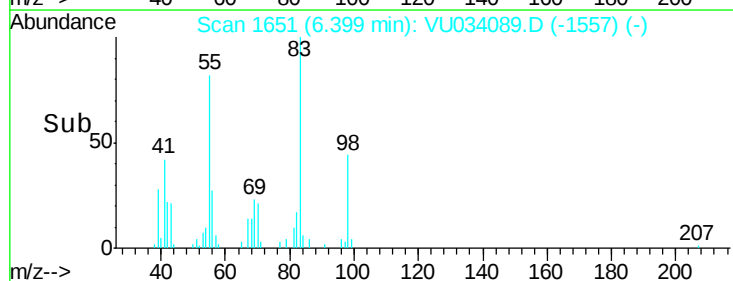
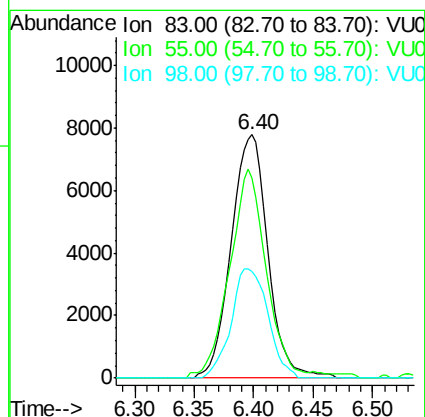
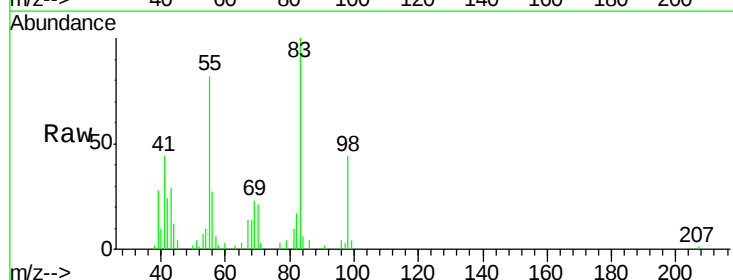
Tgt Ion: 83 Resp: 16680

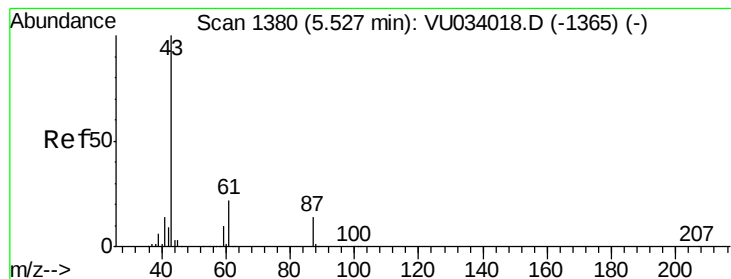
Ion Ratio Lower Upper

83 100

55 80.4 62.3 93.5

98 43.7 36.2 54.2





#43

Isopropyl Acetate

Concen: 6.781 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

SOIL-SAMPLE-4

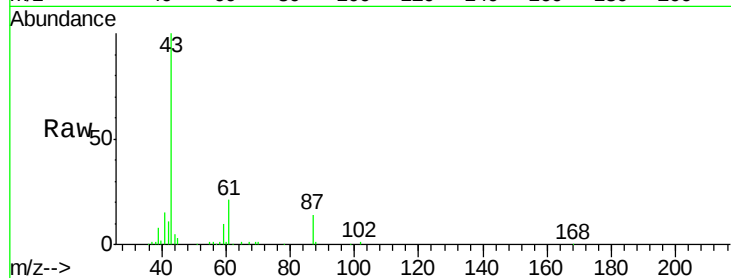
Tot Ion: 43 Resp: 80731

Ion Ratio Lower Upper

43 100

61 20.0 17.2 25.8

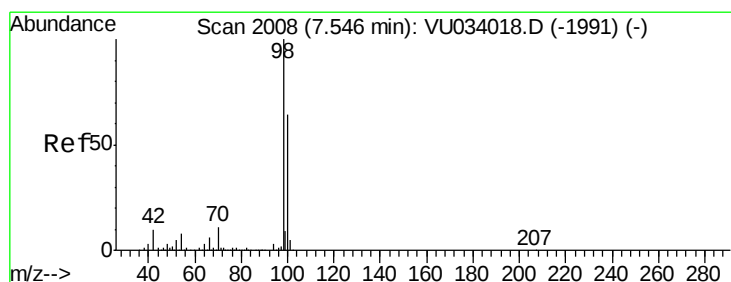
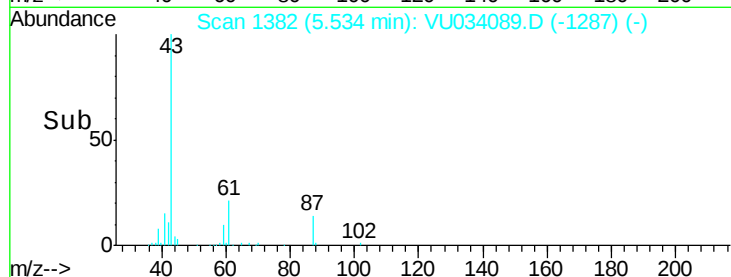
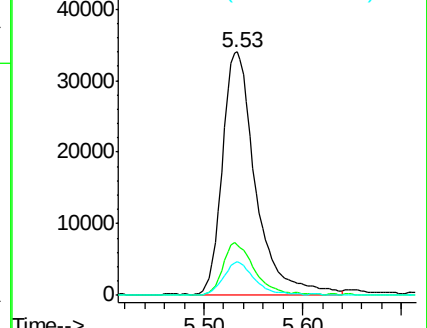
87 13.0 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034089.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034089.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034089.D (-1287) (-)



#50

Toluene-d8

Concen: 50.046 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034089.D

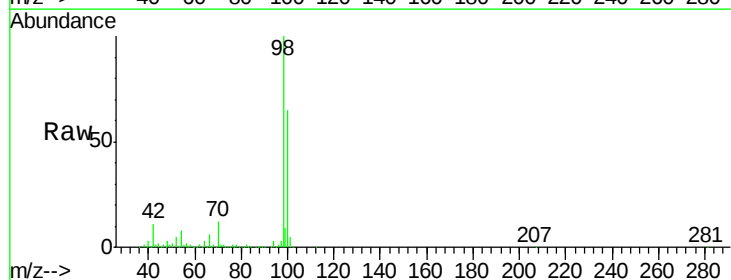
Acq: 30 Aug 2019 11:38

Tgt Ion: 98 Resp: 960318

Ion Ratio Lower Upper

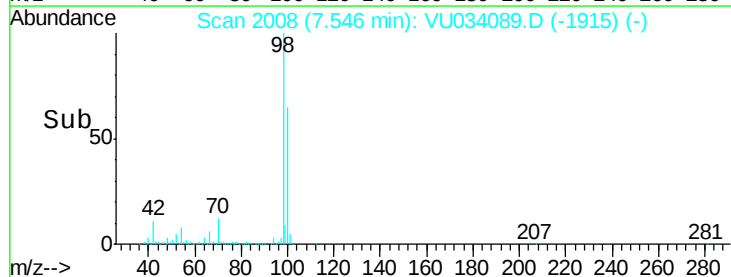
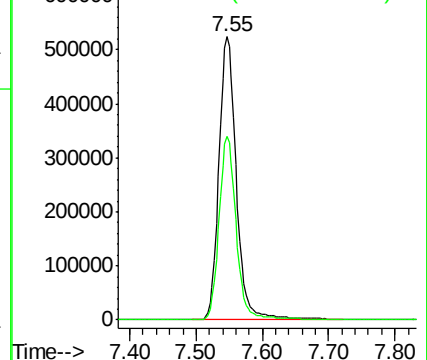
98 100

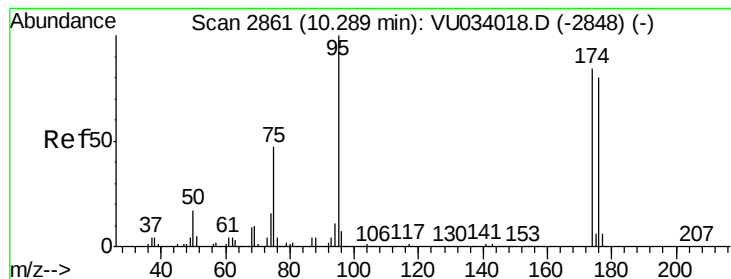
100 64.1 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034089.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034089.D (-1915) (-)





#62

4-Bromofluorobenzene

Concen: 45.705 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

SOIL-SAMPLE-4

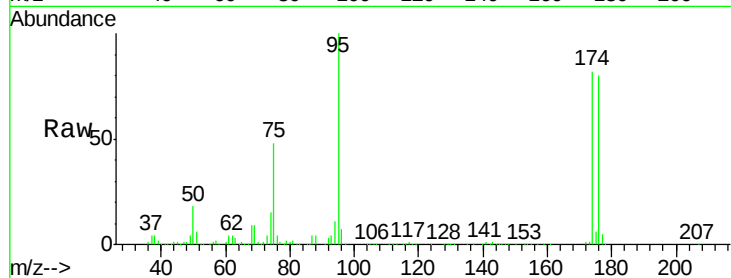
Tot Ion: 95 Resp: 341150

Ion Ratio Lower Upper

95 100

174 83.5 0.0 168.8

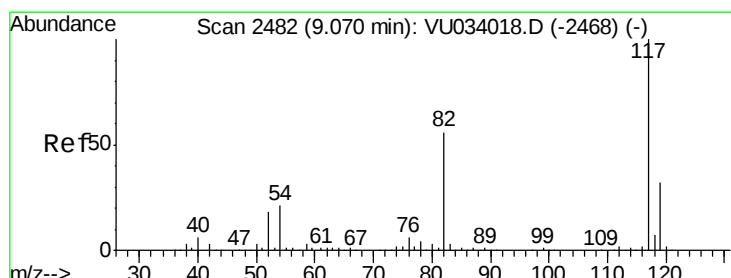
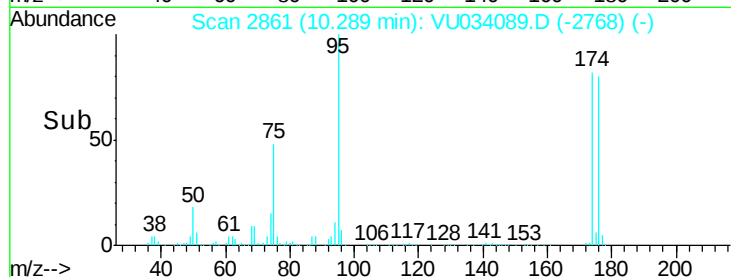
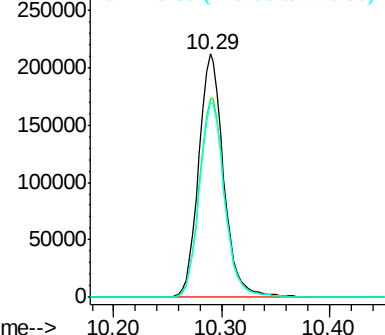
176 81.1 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

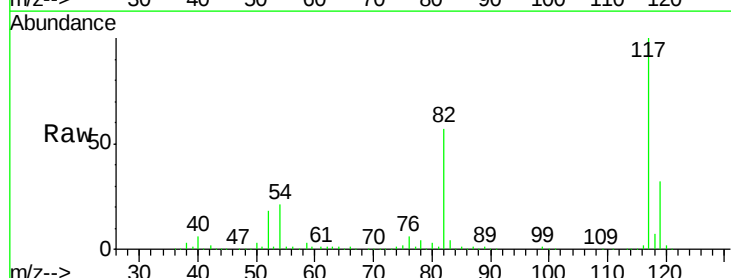
Tgt Ion: 117 Resp: 728243

Ion Ratio Lower Upper

117 100

82 56.7 45.1 67.7

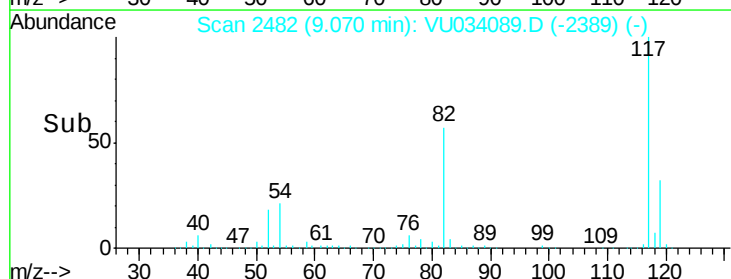
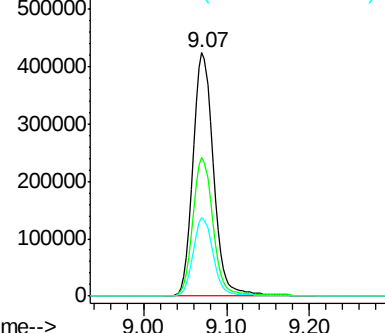
119 32.3 25.4 38.0

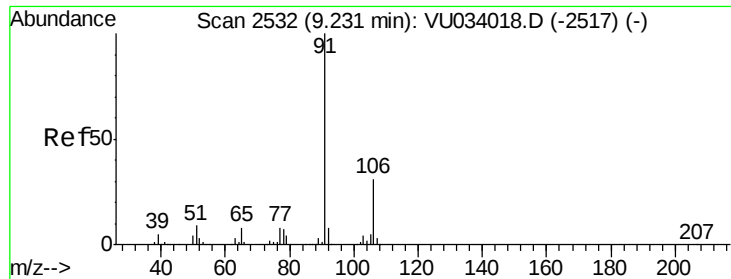


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

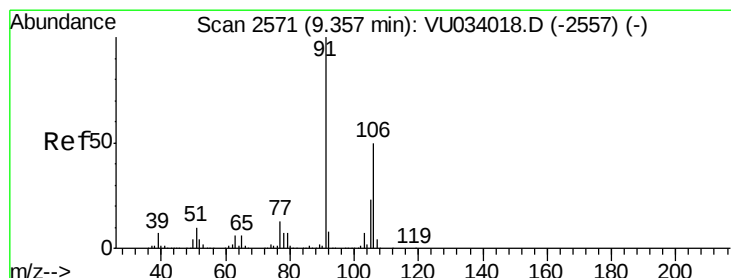
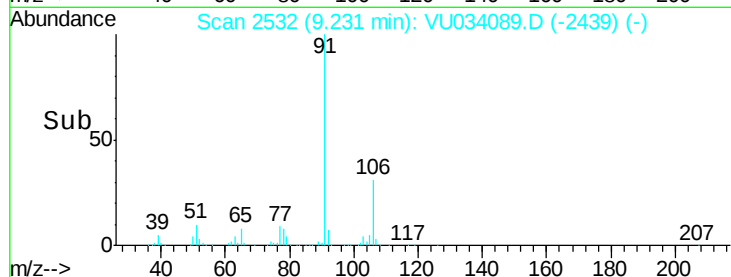
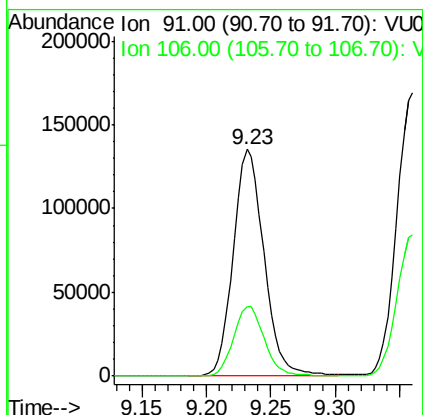
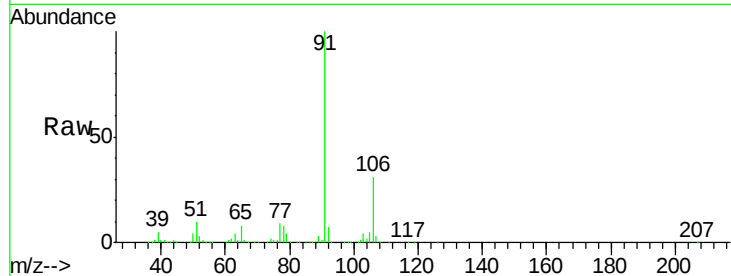




#67
Ethyl Benzene
Concen: 8.878 ug/l
RT: 9.23 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU034089.D
Acq: 30 Aug 2019 11:38

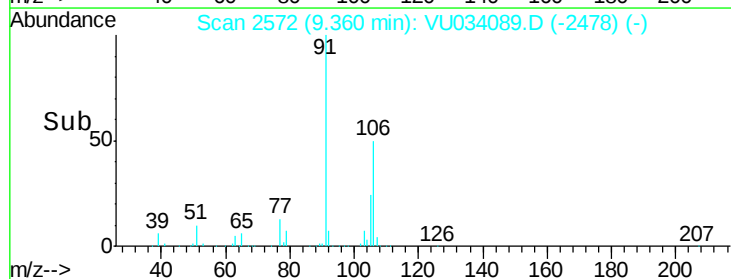
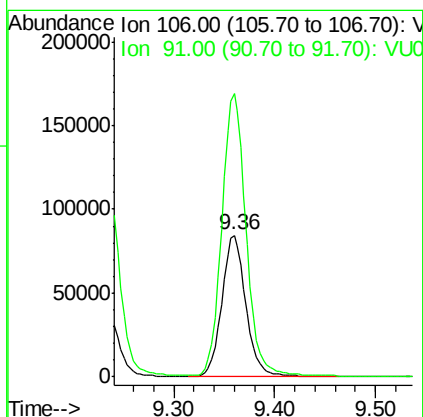
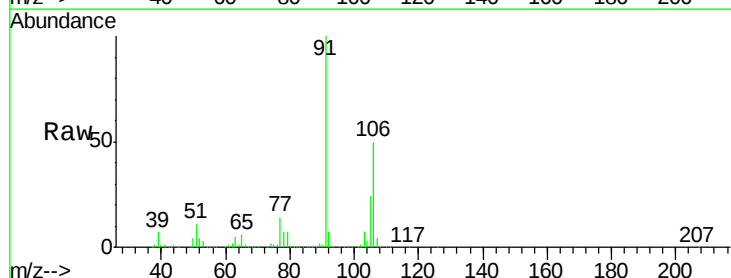
Instrument :
MSVOA_U
ClientSampleId :
SOIL-SAMPLE-4

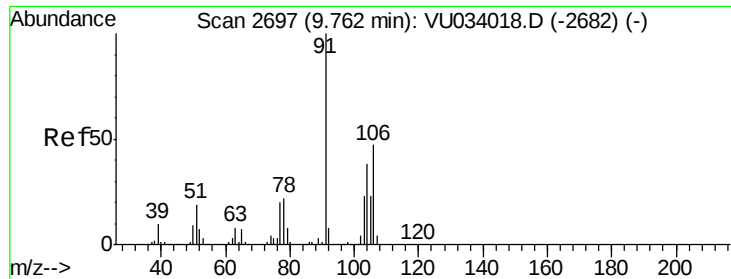
Tot Ion: 91 Resp: 225533
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3



#68
m/p-Xylenes
Concen: 14.476 ug/l
RT: 9.36 min Scan# 2572
Delta R.T. 0.00 min
Lab File: VU034089.D
Acq: 30 Aug 2019 11:38

Tgt Ion: 106 Resp: 139829
Ion Ratio Lower Upper
106 100
91 202.4 161.6 242.4

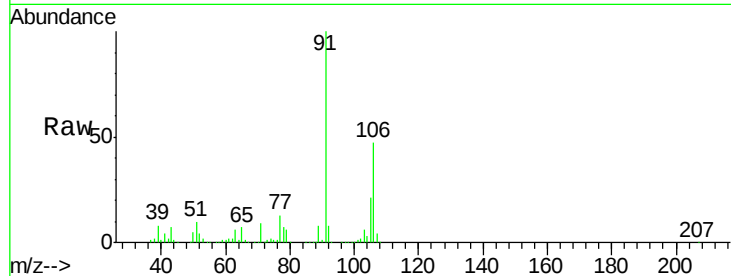




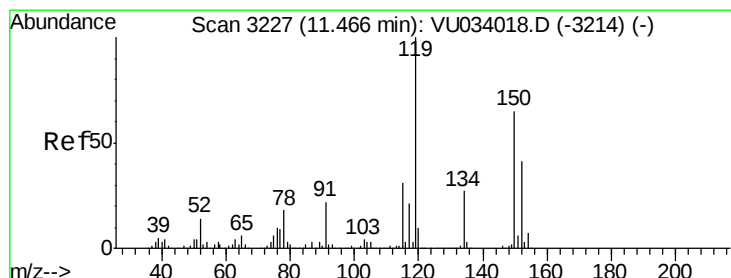
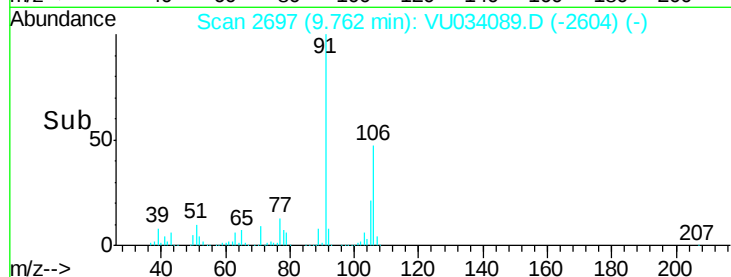
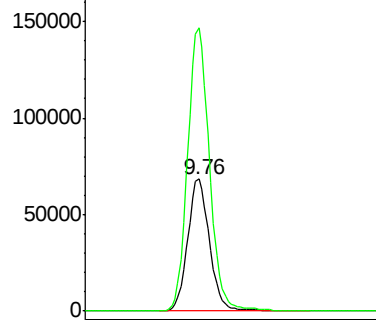
#69
o-Xylene
Concen: 12.061 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034089.D
Acq: 30 Aug 2019 11:38

Instrument :
MSVOA_U
ClientSampleId :
SOIL-SAMPLE-4

Tot Ion:106 Resp: 111775
Ion Ratio Lower Upper
106 100
91 214.3 106.0 318.0

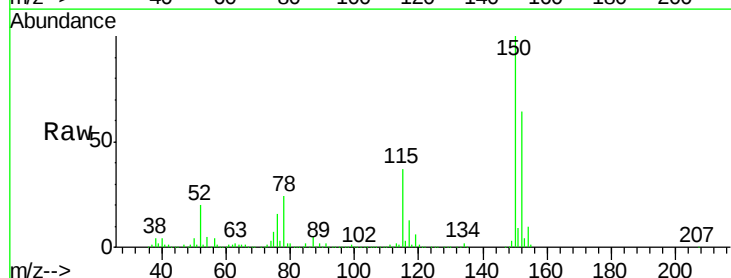


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

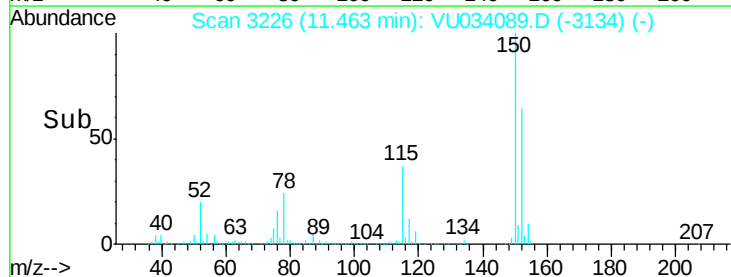
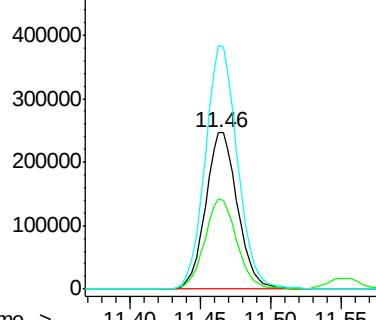


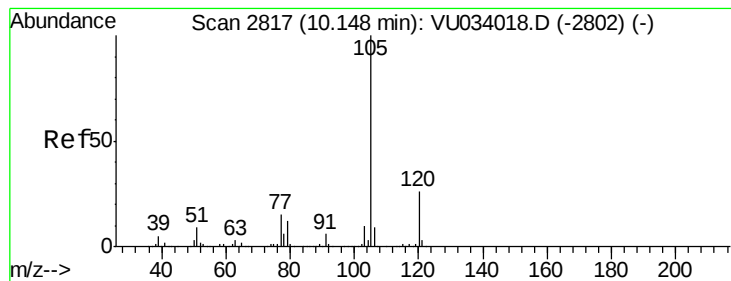
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034089.D
Acq: 30 Aug 2019 11:38

Tgt Ion:152 Resp: 392005
Ion Ratio Lower Upper
152 100
115 57.1 41.1 123.3
150 157.2 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.054 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

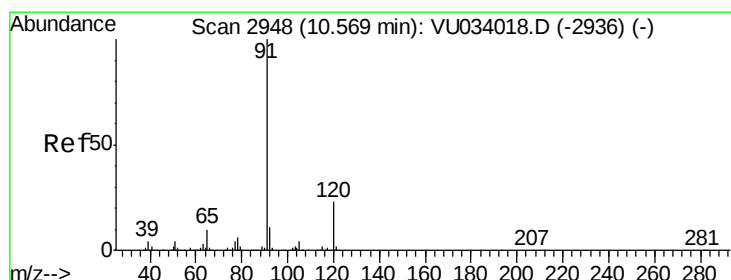
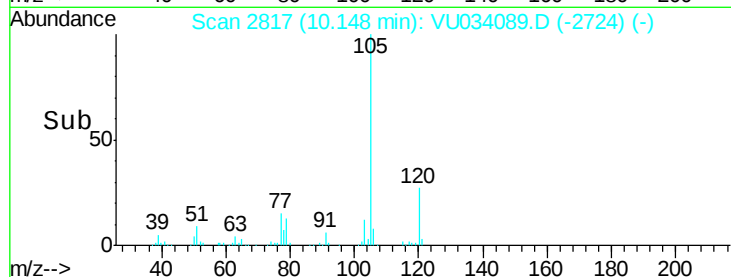
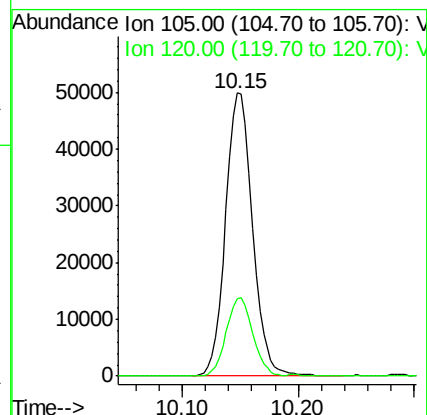
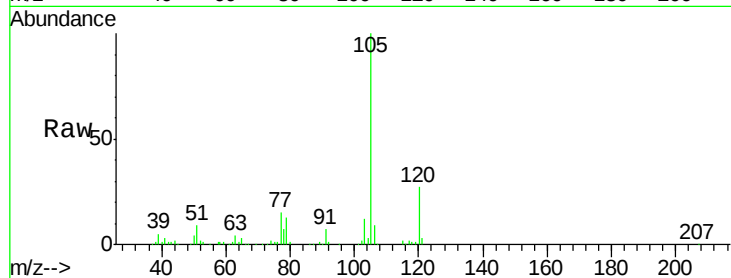
SOIL-SAMPLE-4

Tot Ion: 105 Resp: 80424

Ion Ratio Lower Upper

105 100

120 27.2 13.3 39.8



#78

n-propylbenzene

Concen: 4.234 ug/l

RT: 10.57 min Scan# 2948

Delta R.T. 0.00 min

Lab File: VU034089.D

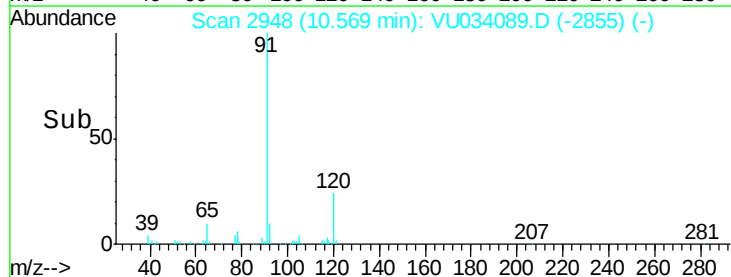
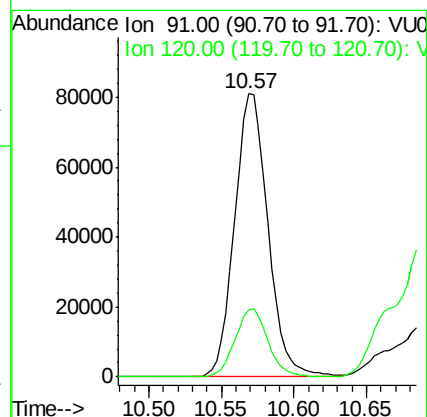
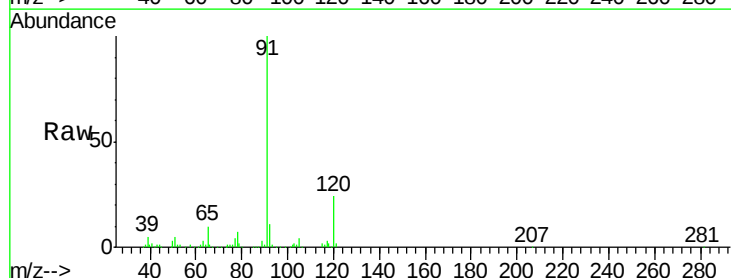
Acq: 30 Aug 2019 11:38

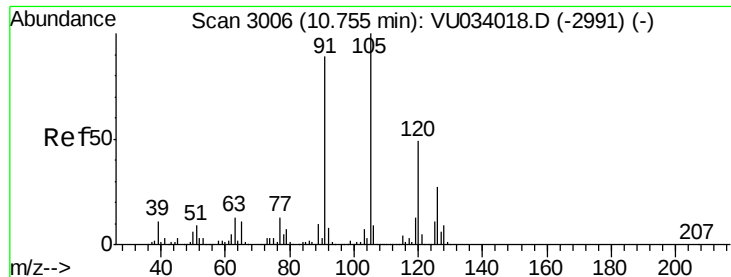
Tgt Ion: 91 Resp: 129828

Ion Ratio Lower Upper

91 100

120 23.7 11.7 35.0

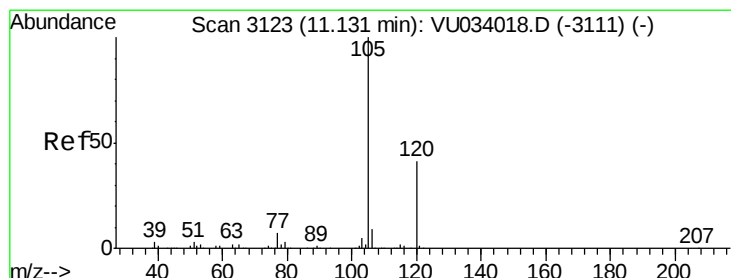
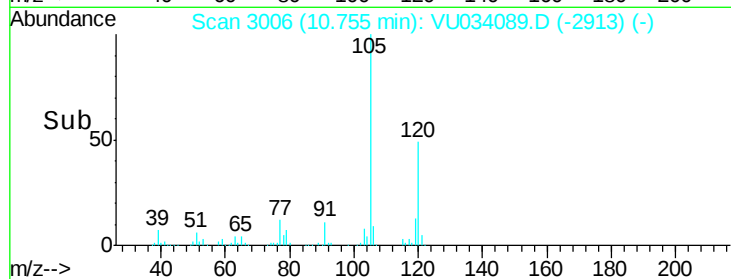
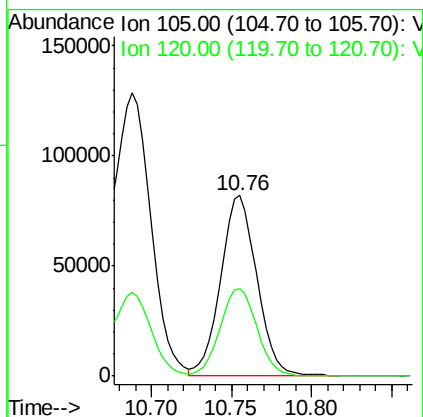
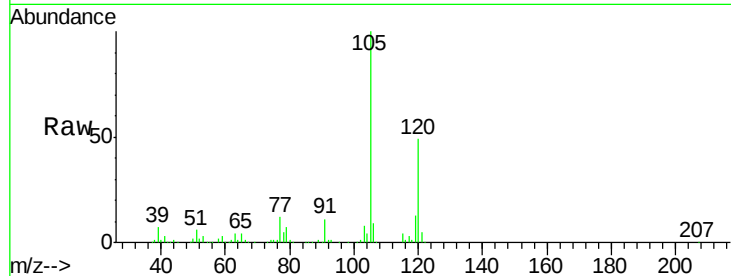




#80
 1,3,5-Trimethylbenzene
 Concen: 5.670 ug/l
 RT: 10.76 min Scan# 3006
 Delta R.T. 0.00 min
 Lab File: VU034089.D
 Acq: 30 Aug 2019 11:38

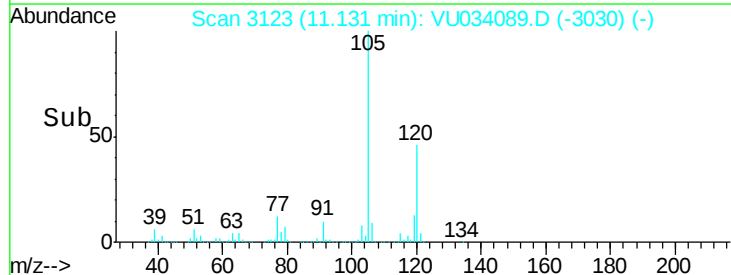
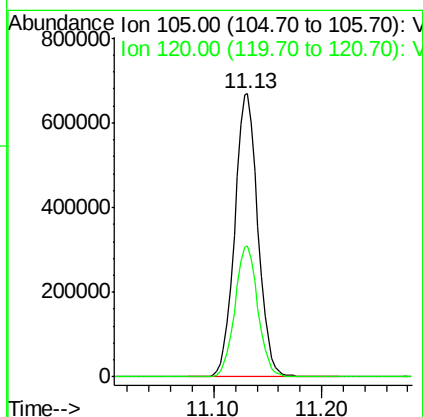
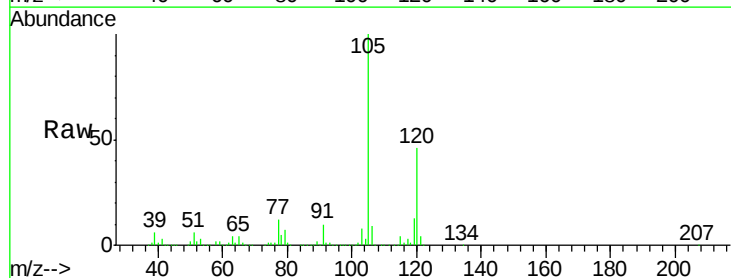
Instrument :
 MSVOA_U
 ClientSampleId :
 SOIL-SAMPLE-4

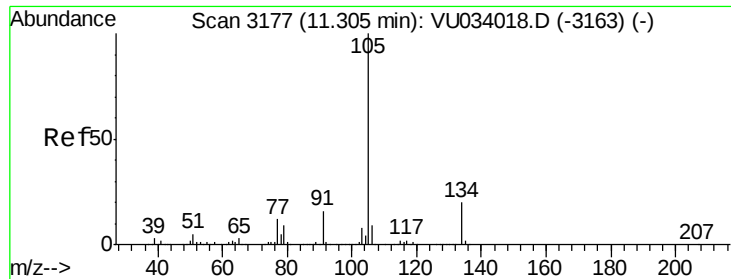
Tot Ion:105 Resp: 126544
 Ion Ratio Lower Upper
 105 100
 120 49.3 24.6 73.6



#84
 1,2,4-Trimethylbenzene
 Concen: 45.310 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. 0.00 min
 Lab File: VU034089.D
 Acq: 30 Aug 2019 11:38

Tgt Ion:105 Resp: 1004085
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.6 67.8





#85

sec-Butylbenzene

Concen: 1.660 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

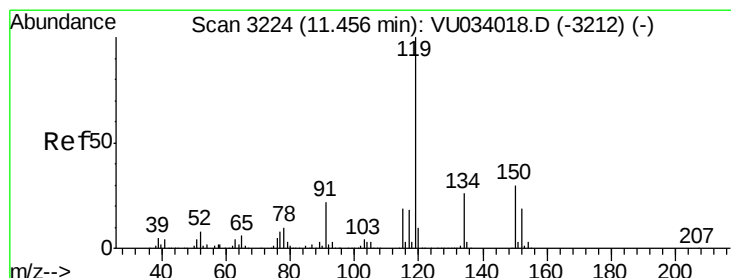
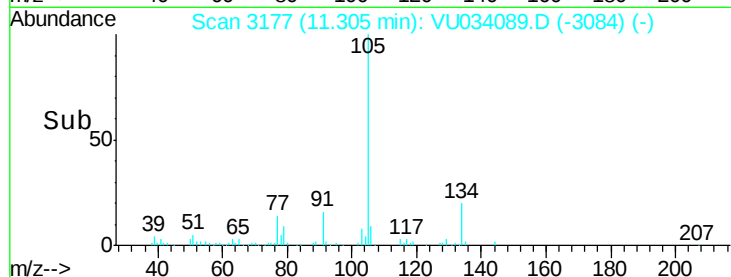
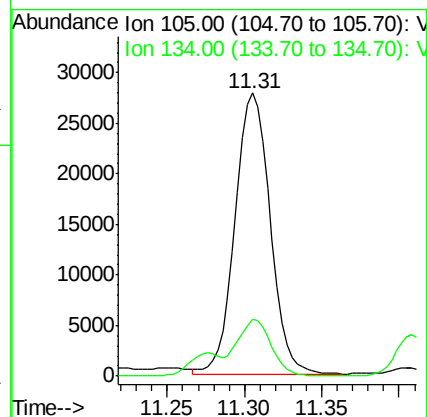
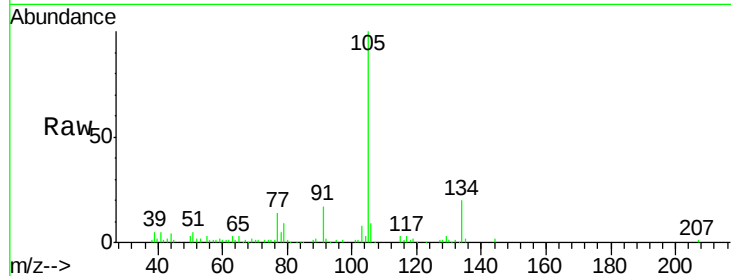
SOIL-SAMPLE-4

Tot Ion:105 Resp: 43708

Ion Ratio Lower Upper

105 100

134 19.7 10.0 30.0



#86

p-Isopropyltoluene

Concen: 1.603 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

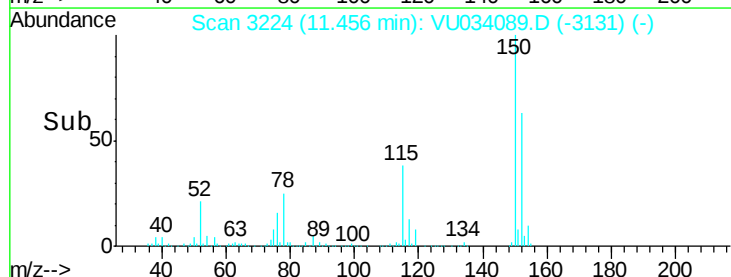
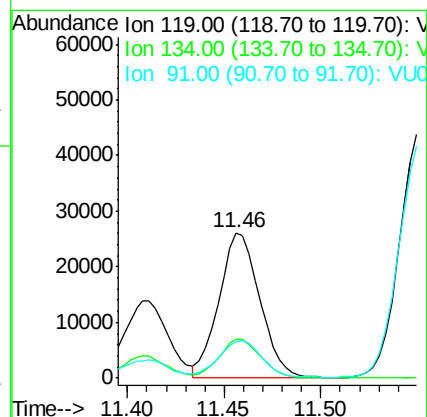
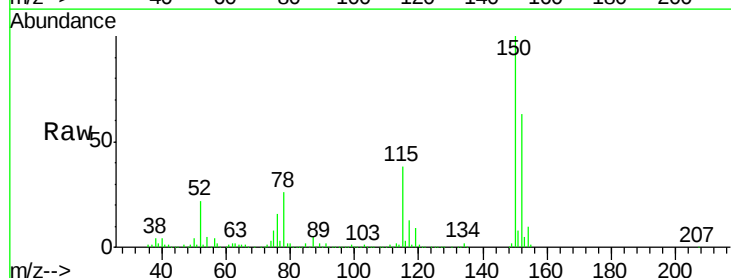
Tgt Ion:119 Resp: 38167

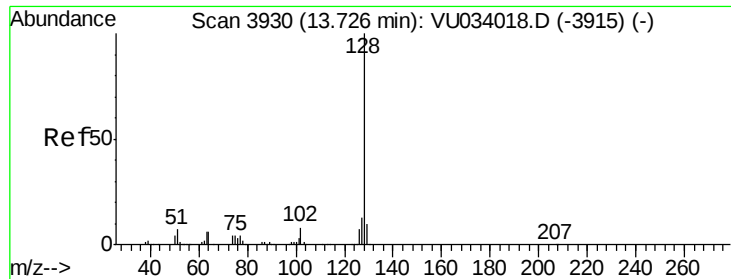
Ion Ratio Lower Upper

119 100

134 27.6 13.1 39.1

91 26.3 11.2 33.6





#95

Naphthalene

Concen: 102.927 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034089.D

Acq: 30 Aug 2019 11:38

Instrument :

MSVOA_U

ClientSampleId :

SOIL-SAMPLE-4

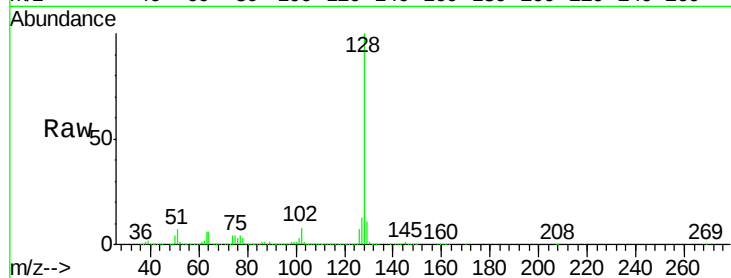
Tot Ion:128 Resp: 2566538

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 11.2 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

