

Data File : VL034134.D
Acq On : 5 Sep 2019 13:32
Operator : SY/AP
Sample : K4612-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SOIL

Quant Time: Sep 06 04:13:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep 05 10:21:45 2019
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	890419	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	1711798	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1706250	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1488772	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	31510	0.215	ppbv	90
3) Chlorodifluoromethane	2.98	51	168846	1.701	ppbv	92
4) Chloromethane	3.13	50	33772	0.544	ppbv	90
7) Chloroethane	3.56	64	1427	0.074	ppbv	93
9) Propene	3.00	41	552096	9.942	ppbv #	81
10) Heptane	8.18	43	136957	0.950	ppbv #	76
11) Trichlorofluoromethane	3.96	101	47690	0.398	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.50	101	6154	0.077	ppbv #	41
13) Ethanol	3.62	45	1435210	131.925	ppbv	99
15) Acetone	3.85	43	5934900	55.304	ppbv #	86
16) 1,3-Butadiene	3.30	39	806537	14.840	ppbv #	16
17) tert-Butyl alcohol	4.32	59	393155	5.047	ppbv	97
19) Isopropyl Alcohol	3.99	45	662806	9.151	ppbv #	97
20) Methylene Chloride	4.36	84	338396	9.537	ppbv	94
21) Allyl Chloride	4.36	41	20263	0.286	ppbv #	65
23) Vinyl Acetate	5.10	43	162774	0.894	ppbv #	39
25) Ethyl Acetate	5.71	43	2392724	10.157	ppbv #	93
26) Hexane	5.72	57	375195	3.582	ppbv #	1
27) Carbon Disulfide	4.57	76	71203	0.753	ppbv #	78
29) Chloroform	5.80	83	471945	3.341	ppbv	98
30) Cyclohexane	7.18	84	31605	0.417	ppbv #	47
31) cis-1,2-Dichloroethene	5.71	61	279545	2.787	ppbv #	29
32) 1,1,1-Trichloroethane	6.56	97	5974	0.045	ppbv #	10
34) 2-Butanone	5.27	43	1882965	11.442	ppbv	99
35) Carbon Tetrachloride	7.08	117	4321	0.032	ppbv	95
36) Benzene	6.94	78	73985	0.378	ppbv	96
37) 1,2-Dichloroethane	6.36	62	17616	0.147	ppbv	99
39) 1,2-Dichloropropane	7.23	63	520593	6.217	ppbv #	25
41) Tetrahydrofuran	6.09	42	4640	0.047	ppbv #	1
43) Methyl Methacrylate	8.08	69	4080	0.051	ppbv #	1
44) 2,2,4-Trimethylpentane	7.92	57	140130	0.388	ppbv #	80
50) 4-Methyl-2-Pentanone	8.80	43	1836287	7.312	ppbv	98
51) 2-Hexanone	10.21	43	11667	0.054	ppbv #	1
52) Tetrachloroethene	11.31	164	2277	0.033	ppbv #	58
53) Toluene	9.88	91	3096801	14.310	ppbv	99
58) Ethyl Benzene	12.79	91	438295	1.567	ppbv	98
59) m/p-Xylene	13.06	91	879330	3.853	ppbv	100
60) o-Xylene	13.78	91	416701	1.833	ppbv	96
61) Styrene	13.62	104	87078	0.512	ppbv #	58
62) Isopropylbenzene	14.77	105	23966	0.081	ppbv #	49
64) n-propylbenzene	15.66	120	13059	0.176	ppbv #	1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep 05 10:21:45 2019
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Response via : Initial Calibration

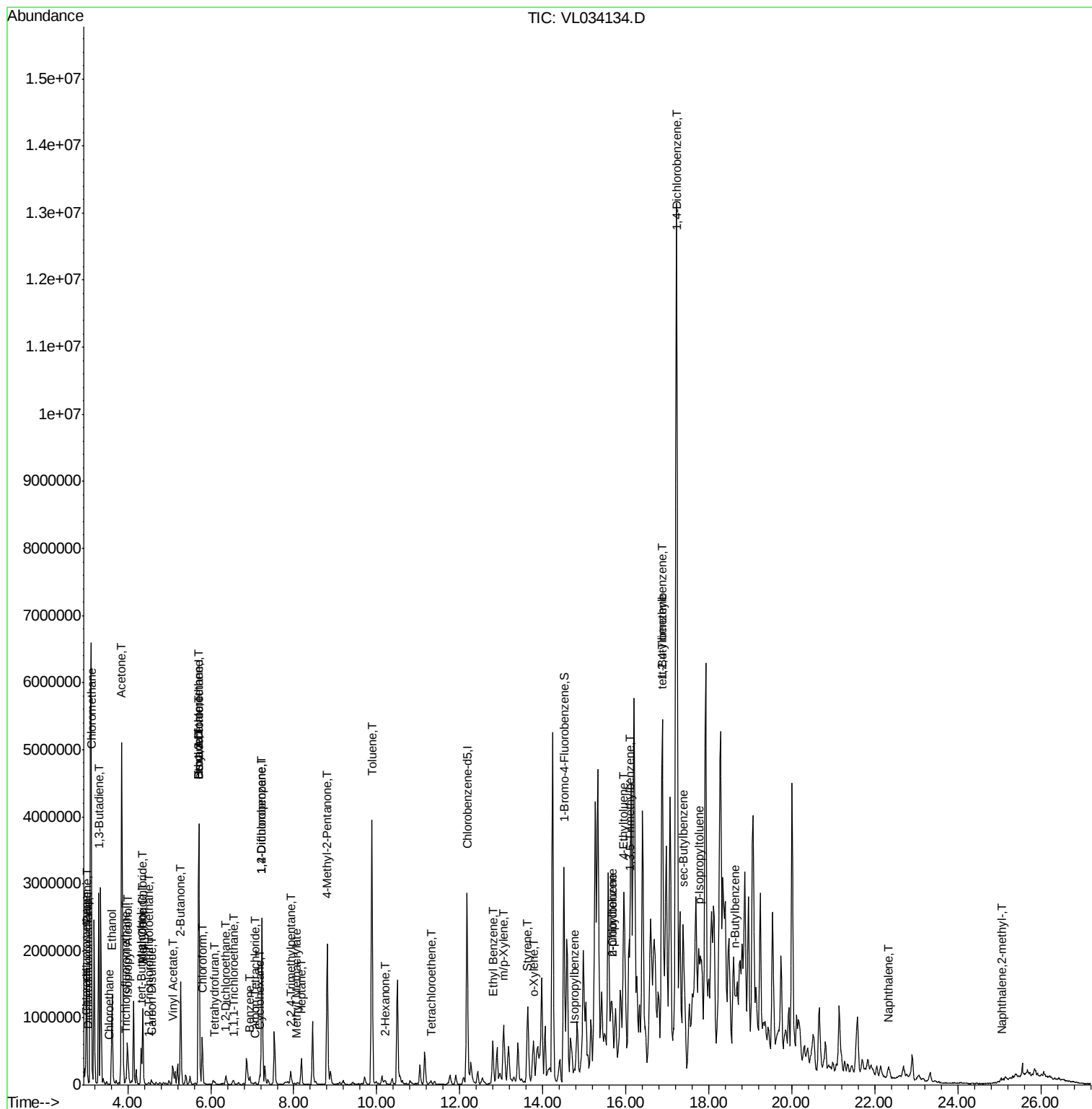
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.86	119	92709	0.363	ppbv #	61
67) sec-Butylbenzene	17.40	105	40733	0.111	ppbv #	67
69) p-Isopropyltoluene	17.75	119	367513	1.251	ppbv #	82
70) n-Butylbenzene	18.65	91	35111	0.105	ppbv #	39
71) 2-Chlorotoluene	15.66	91	216400	0.896	ppbv #	65
72) 4-Ethyltoluene	15.93	105	259156	1.010	ppbv	97
73) 1,3,5-Trimethylbenzene	16.09	105	256322	1.028	ppbv	89
74) 1,2,4-Trimethylbenzene	16.86	105	857842	3.342	ppbv #	75
76) 1,4-Dichlorobenzene	17.24	146	27057	0.190	ppbv #	1
79) Naphthalene	22.33	128	14457	0.062	ppbv #	73
80) Naphthalene,2-methyl-	25.06	142	12883	0.160	ppbv	86

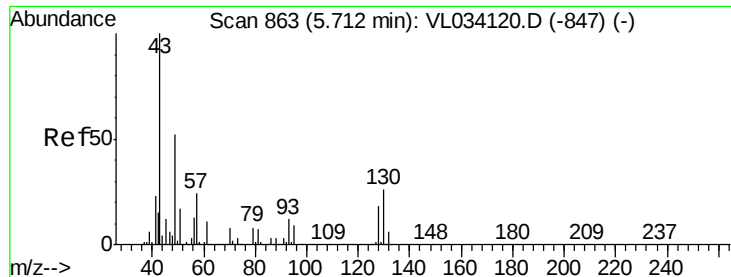
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

SOIL

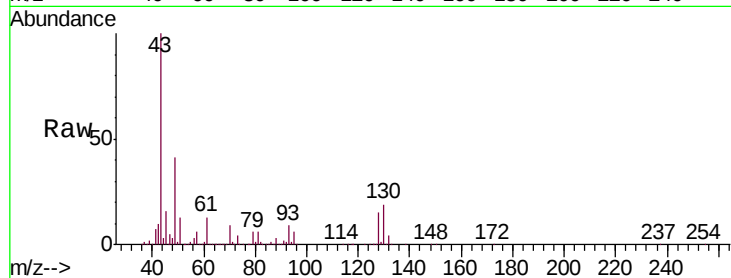
Tgt Ion: 49 Resp: 890419

Ion Ratio Lower Upper

49 100

128 36.3 18.4 55.0

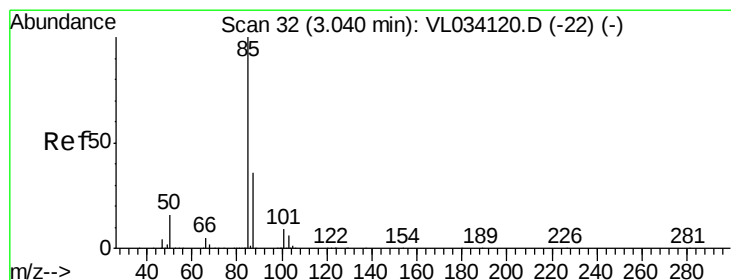
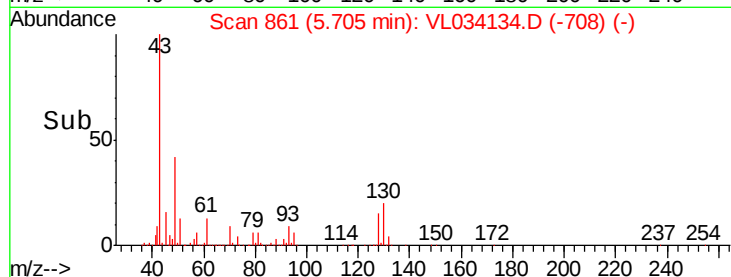
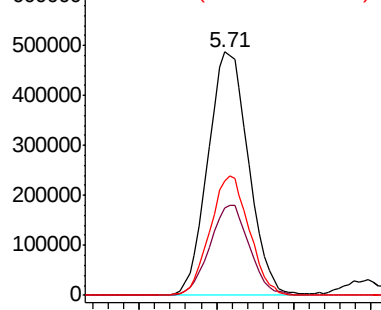
130 47.4 23.5 70.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.215 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034134.D

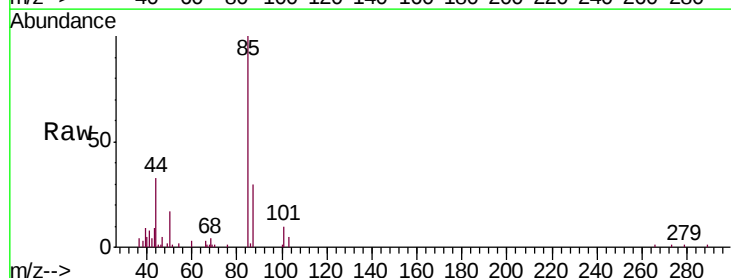
Acq: 5 Sep 2019 13:32

Tgt Ion: 85 Resp: 31510

Ion Ratio Lower Upper

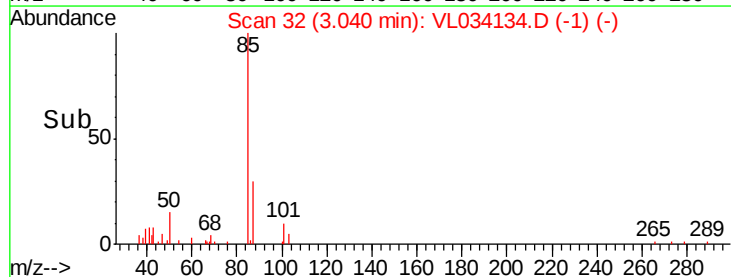
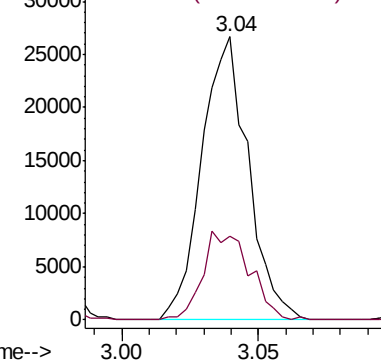
85 100

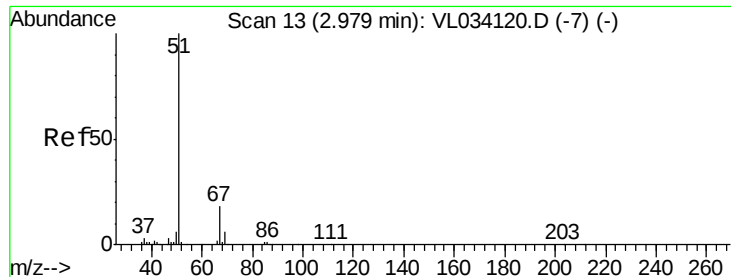
87 29.8 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.701 ppbv

RT: 2.98 min Scan# 12

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

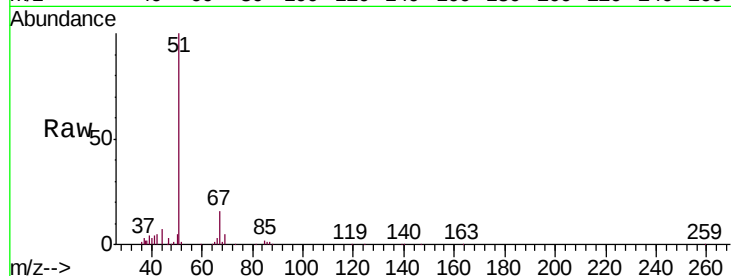
SOIL

Tgt Ion: 51 Resp: 168846

Ion Ratio Lower Upper

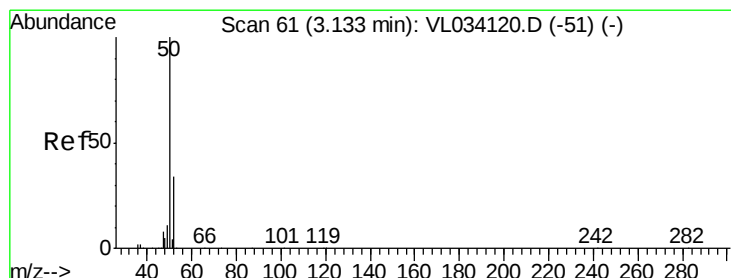
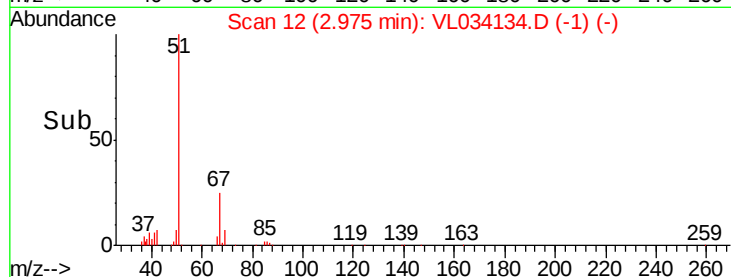
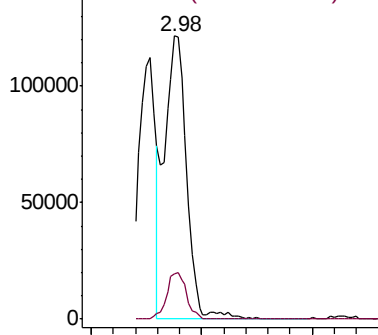
51 100

67 14.4 14.2 21.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.544 ppbv

RT: 3.13 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL034134.D

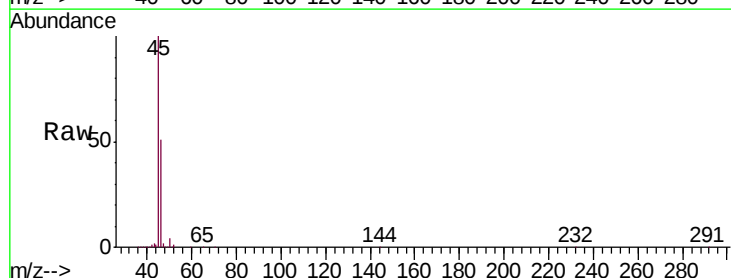
Acq: 5 Sep 2019 13:32

Tgt Ion: 50 Resp: 33772

Ion Ratio Lower Upper

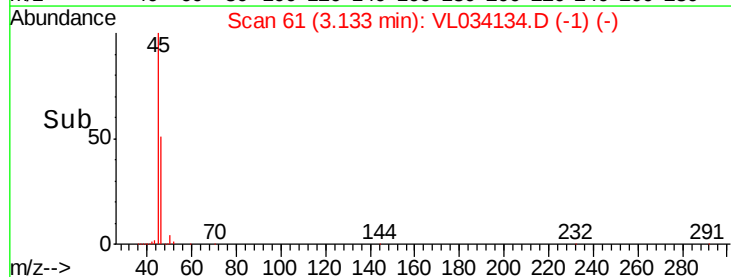
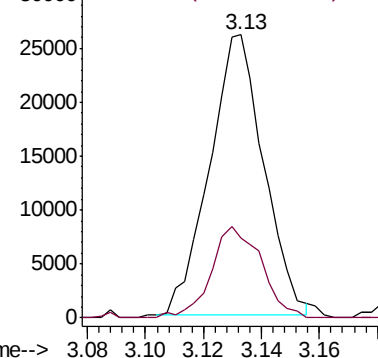
50 100

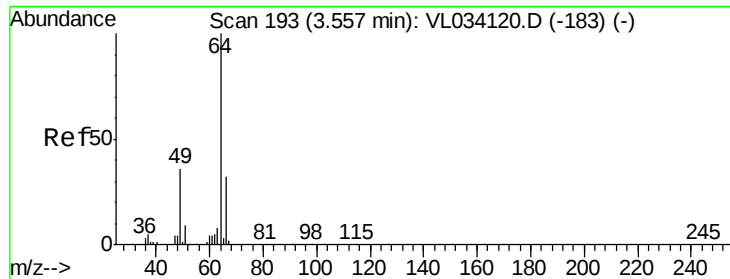
52 28.3 27.4 41.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.074 ppbv

RT: 3.56 min Scan# 193

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

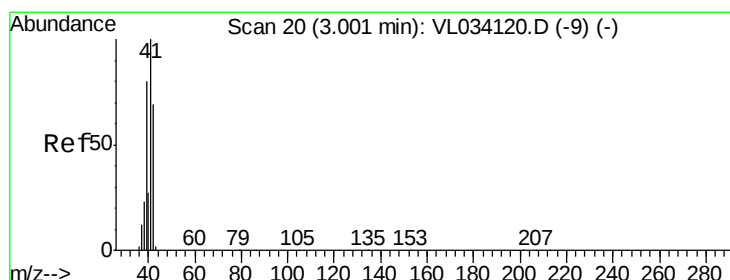
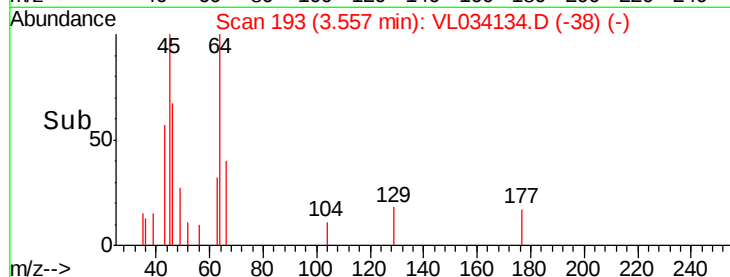
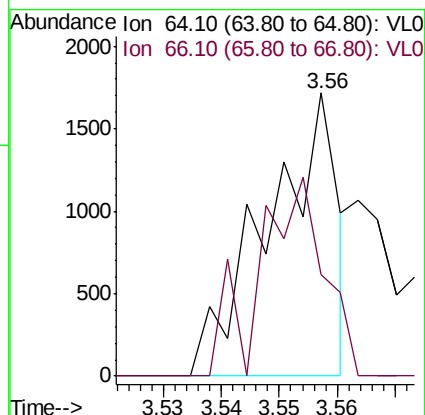
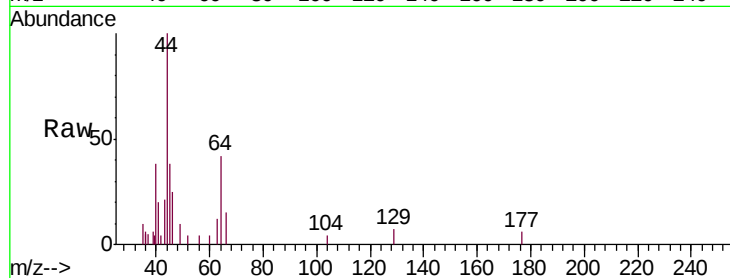
SOIL

Tgt Ion: 64 Resp: 1427

Ion Ratio Lower Upper

64 100

66 36.0 25.4 38.2



#9

Propene

Concen: 9.942 ppbv

RT: 3.00 min Scan# 21

Delta R.T. 0.00 min

Lab File: VL034134.D

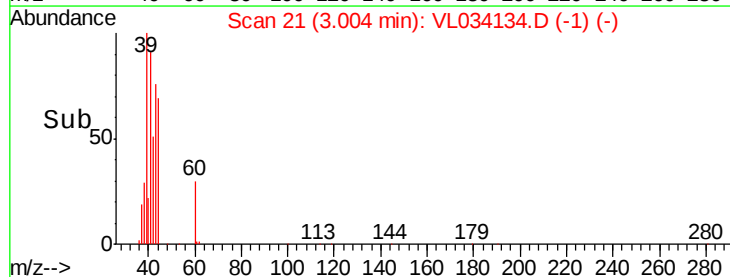
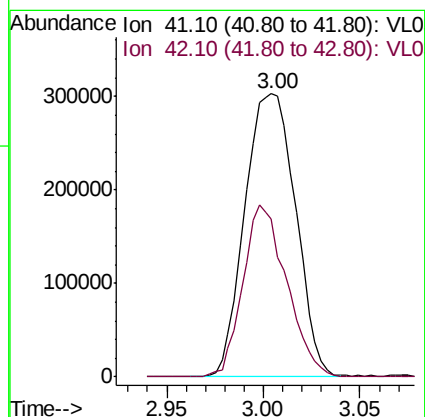
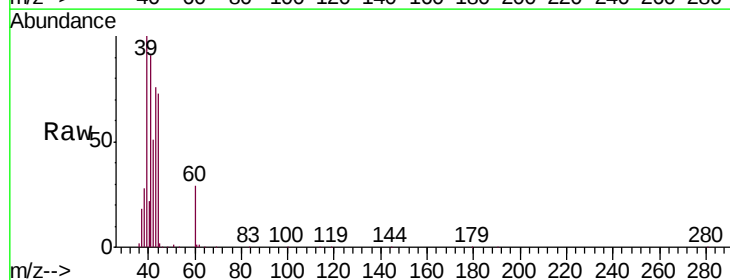
Acq: 5 Sep 2019 13:32

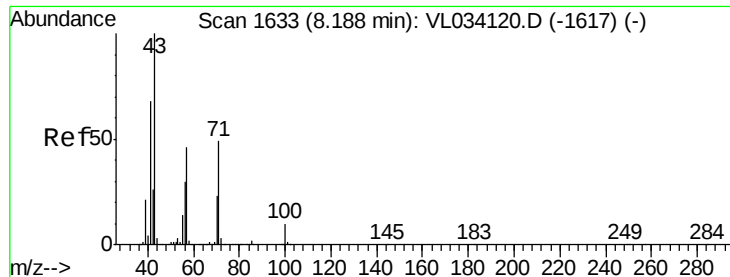
Tgt Ion: 41 Resp: 552096

Ion Ratio Lower Upper

41 100

42 52.5 54.6 81.8#





#10

Heptane

Concen: 0.950 ppbv

RT: 8.18 min Scan# 1631

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

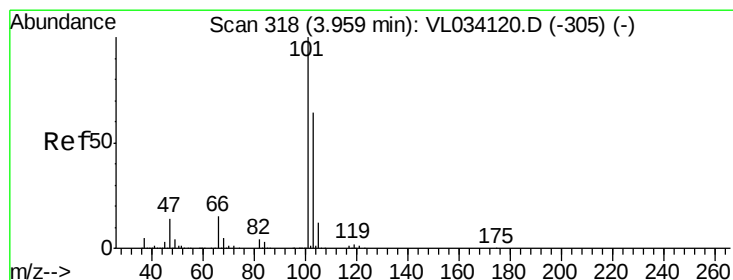
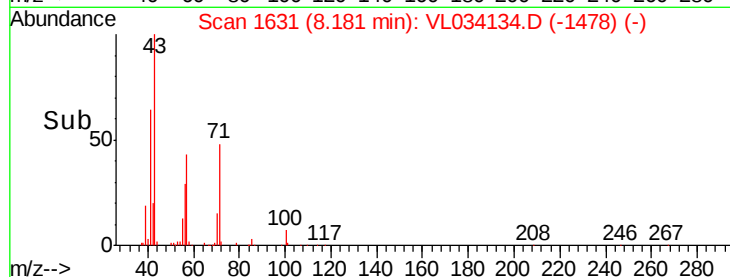
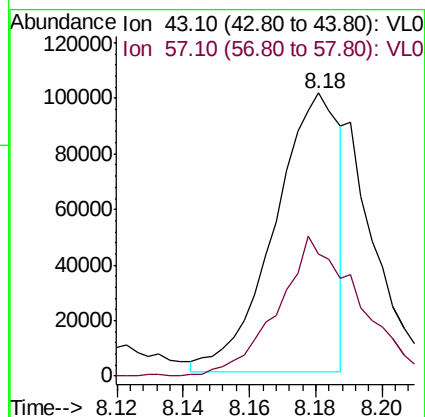
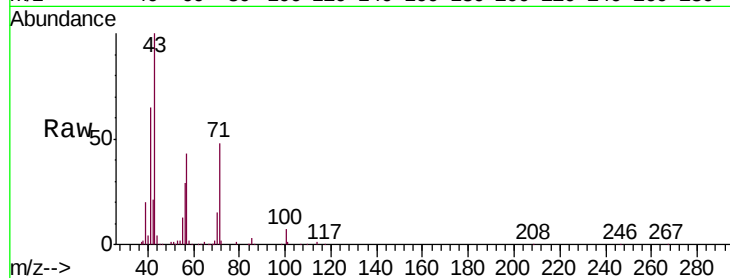
SOIL

Tgt Ion: 43 Resp: 136957

Ion Ratio Lower Upper

43 100

57 63.5 38.1 57.1#



#11

Trichlorofluoromethane

Concen: 0.398 ppbv

RT: 3.96 min Scan# 317

Delta R.T. -0.00 min

Lab File: VL034134.D

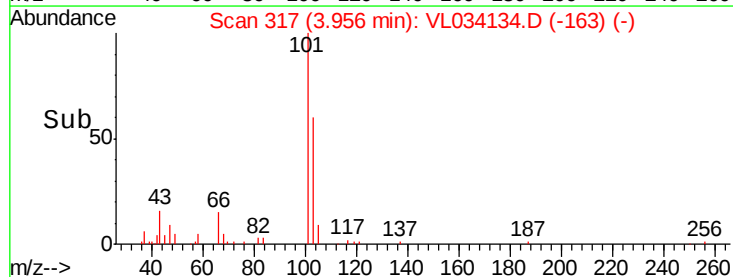
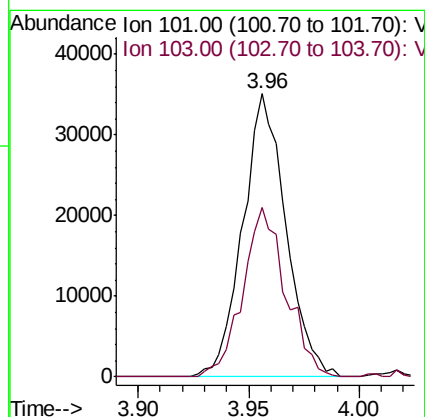
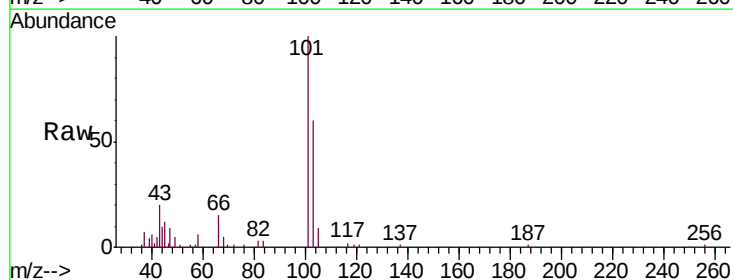
Acq: 5 Sep 2019 13:32

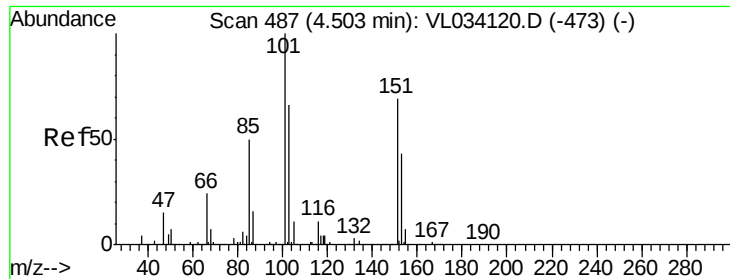
Tgt Ion: 101 Resp: 47690

Ion Ratio Lower Upper

101 100

103 59.9 51.4 77.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.077 ppbv

RT: 4.50 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

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ClientSampleId :

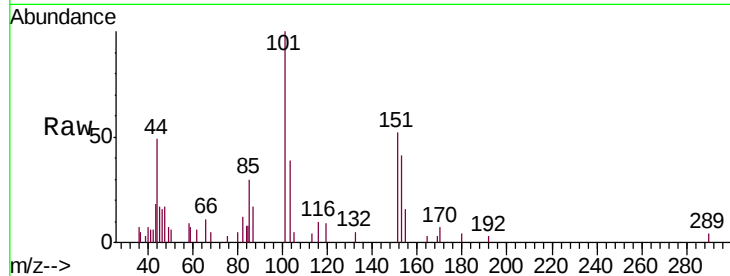
SOIL

Tgt Ion:101 Resp: 6154

Ion Ratio Lower Upper

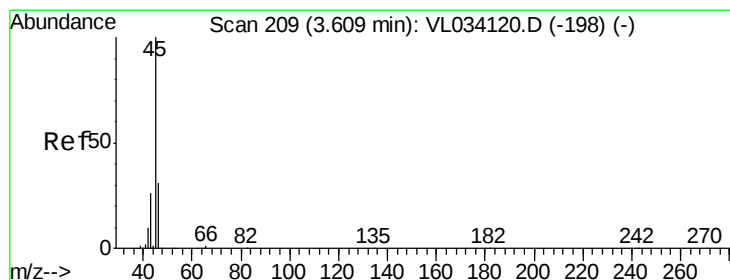
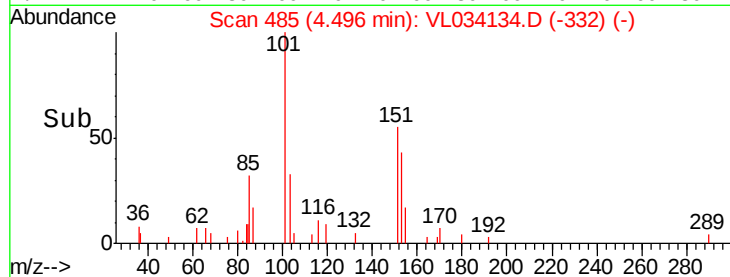
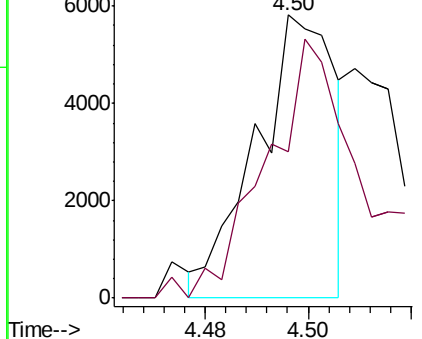
101 100

151 113.2 53.0 79.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 131.925 ppbv

RT: 3.62 min Scan# 212

Delta R.T. 0.01 min

Lab File: VL034134.D

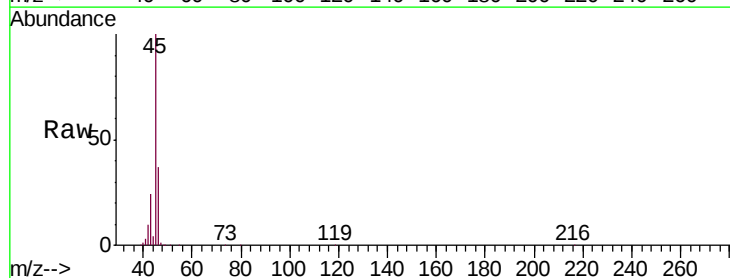
Acq: 5 Sep 2019 13:32

Tgt Ion: 45 Resp: 1435210

Ion Ratio Lower Upper

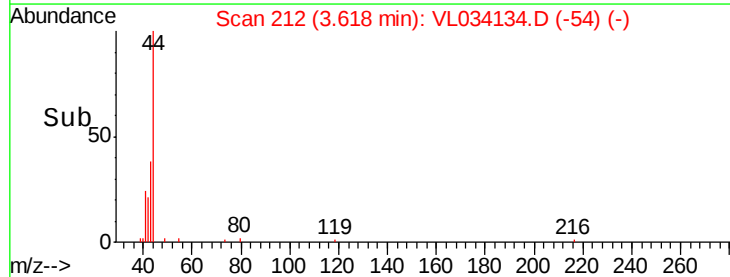
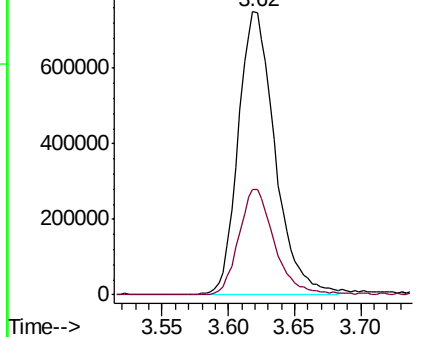
45 100

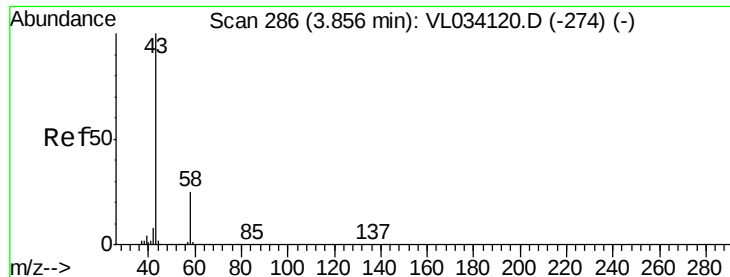
46 36.8 15.0 60.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 55.304 ppbv

RT: 3.85 min Scan# 284

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

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ClientSampleId :

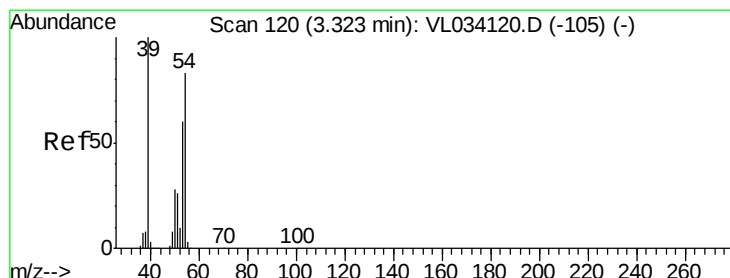
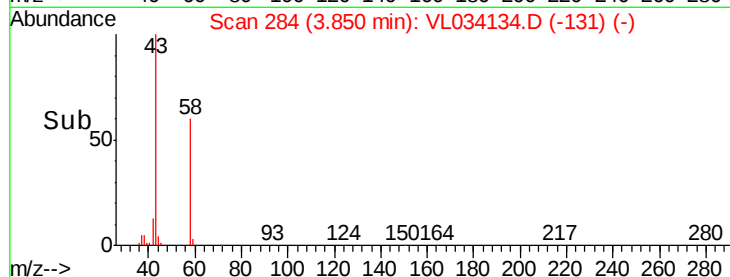
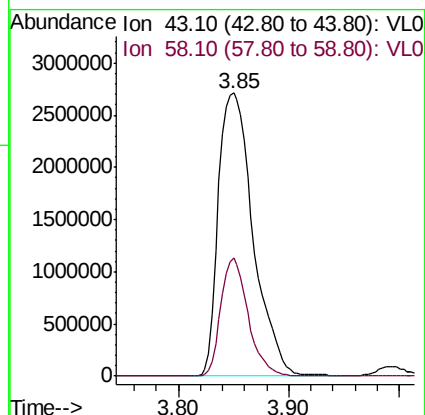
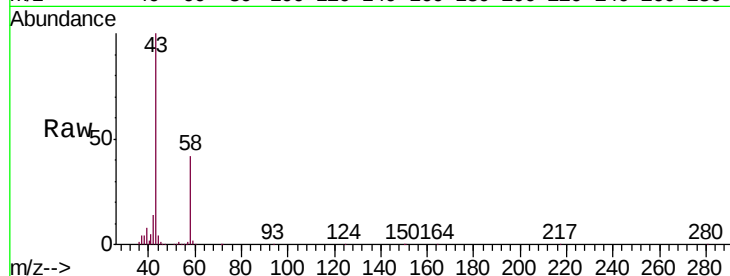
SOIL

Tgt Ion: 43 Resp: 5934900

Ion Ratio Lower Upper

43 100

58 32.8 20.6 30.8#



#16

1,3-Butadiene

Concen: 14.840 ppbv

RT: 3.30 min Scan# 113

Delta R.T. -0.02 min

Lab File: VL034134.D

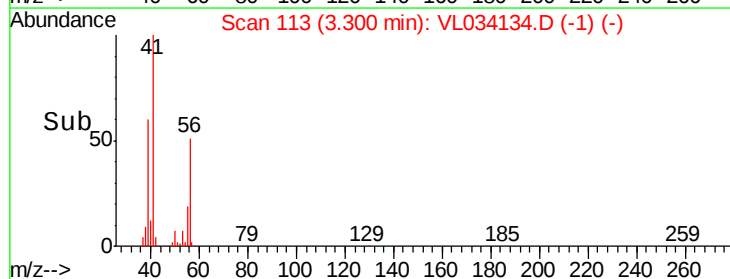
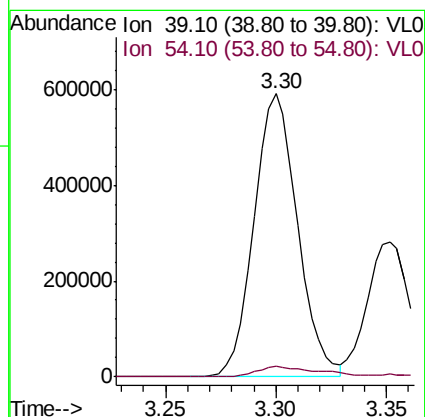
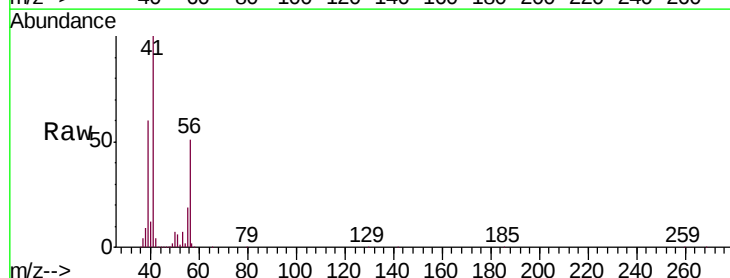
Acq: 5 Sep 2019 13:32

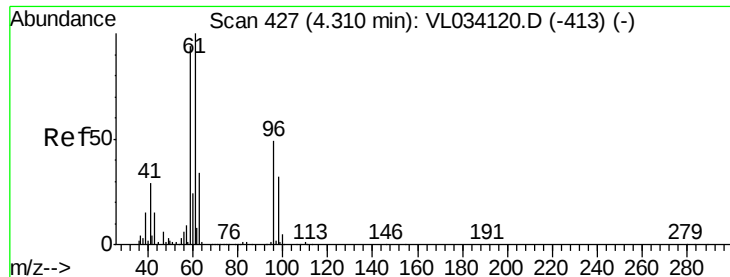
Tgt Ion: 39 Resp: 806537

Ion Ratio Lower Upper

39 100

54 5.8 63.5 95.3#





#17

tert-Butyl alcohol

Concen: 5.047 ppbv

RT: 4.32 min Scan# 431

Delta R.T. 0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

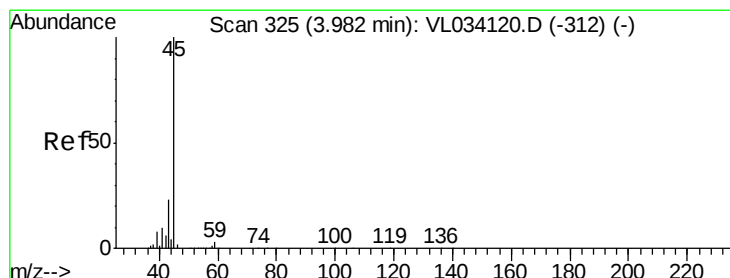
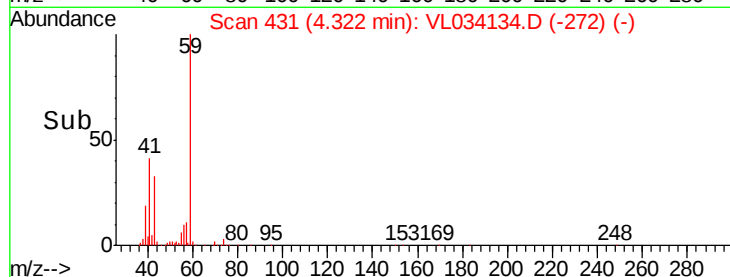
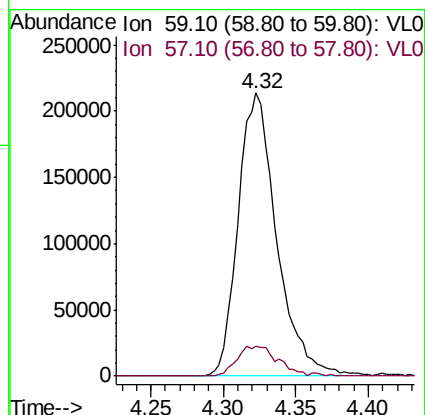
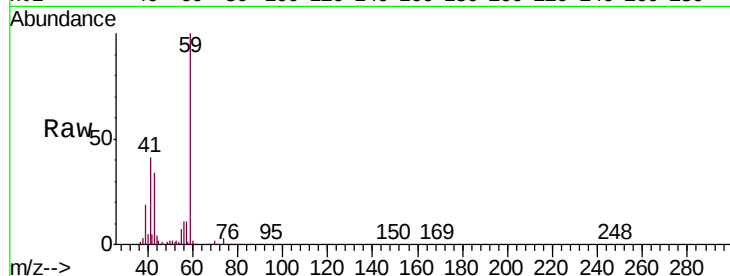
SOIL

Tgt Ion: 59 Resp: 393155

Ion Ratio Lower Upper

59 100

57 11.8 8.6 12.8



#19

Isopropyl Alcohol

Concen: 9.151 ppbv

RT: 3.99 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034134.D

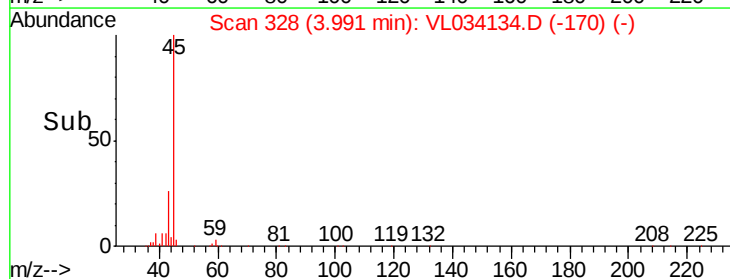
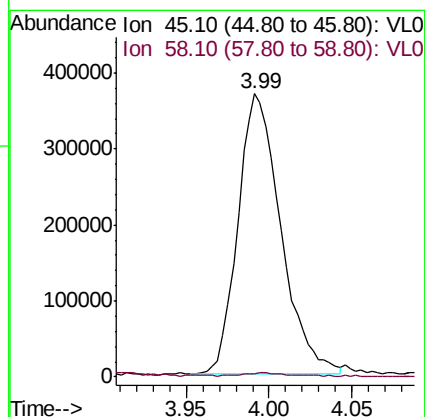
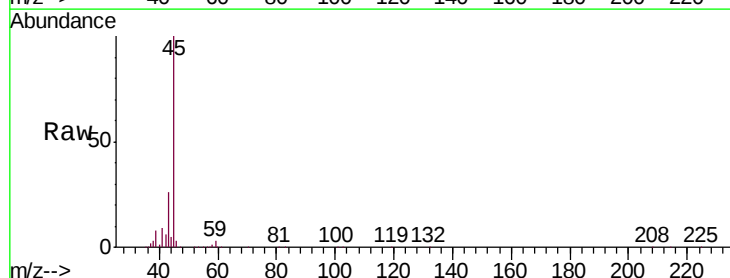
Acq: 5 Sep 2019 13:32

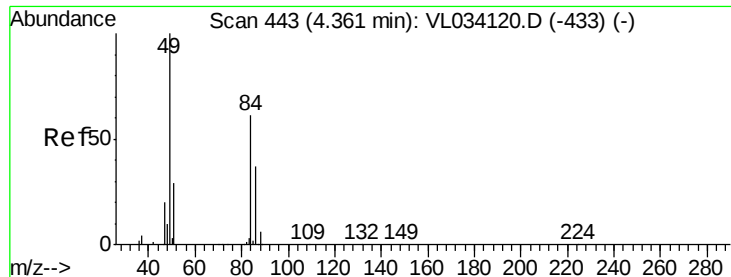
Tgt Ion: 45 Resp: 662806

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#

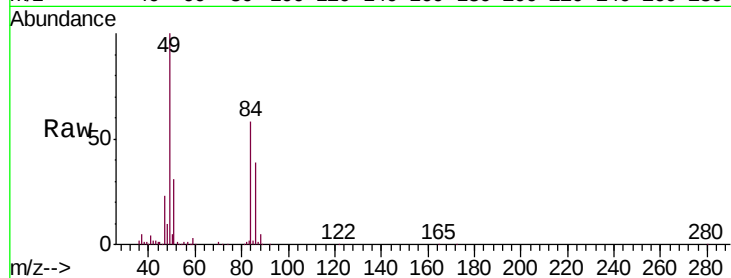




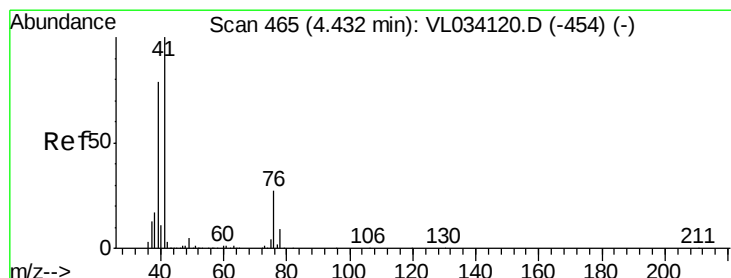
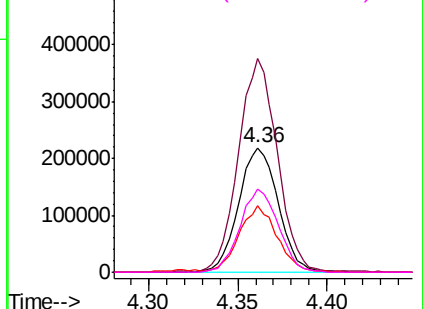
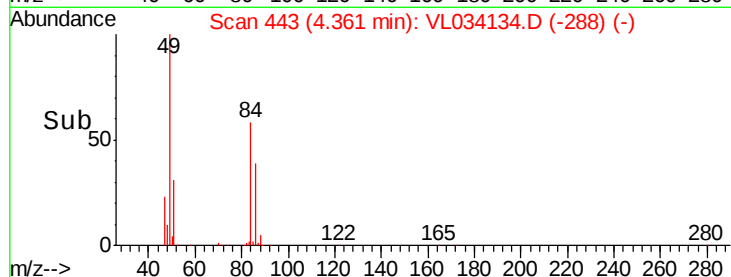
#20
Methylene Chloride
Concen: 9.537 ppbv
RT: 4.36 min Scan# 443
Delta R.T. -0.00 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

Instrument :
MSVOA_L
ClientSampleId :
SOIL

Tgt Ion: 84 Resp: 338396
Ion Ratio Lower Upper
84 100
49 171.0 131.0 196.6
51 52.9 38.1 57.1
86 66.2 49.0 73.6

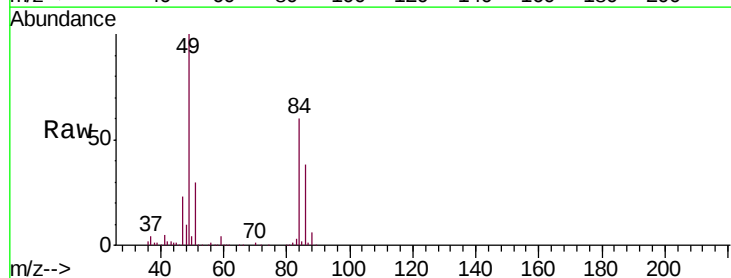


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

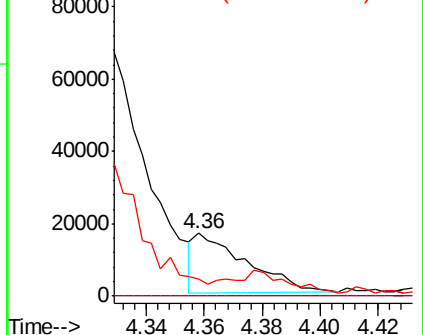
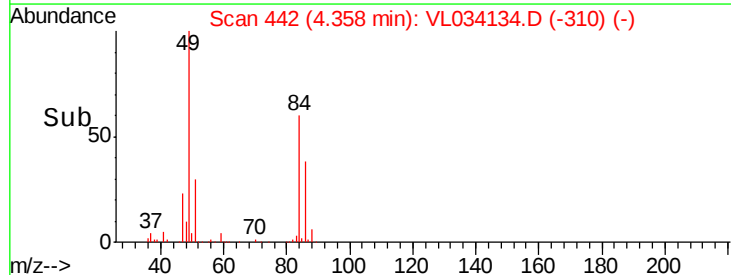


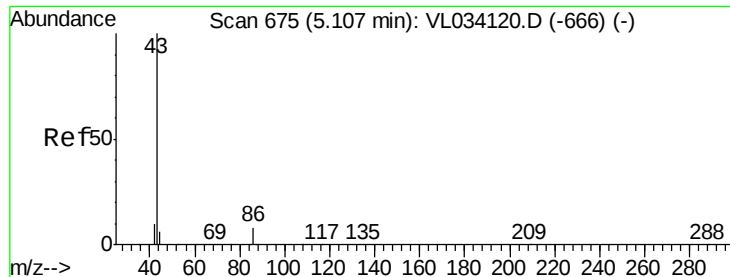
#21
Allyl Chloride
Concen: 0.286 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.07 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

Tgt Ion: 41 Resp: 20263
Ion Ratio Lower Upper
41 100
76 0.0 21.6 32.4#
39 54.9 65.0 97.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.894 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

SOIL

Tgt Ion: 43 Resp: 162774

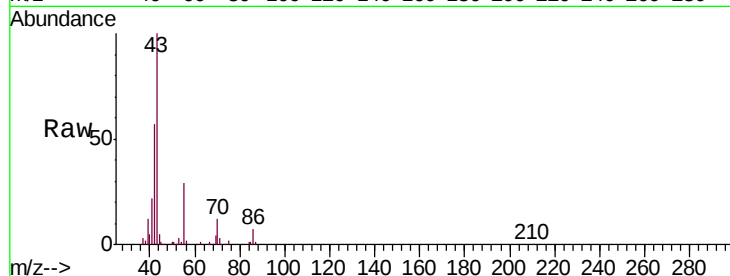
Ion Ratio Lower Upper

43 100

86 7.4 5.5 8.3

42 57.5 8.2 12.4#

44 1.3 4.3 6.5#

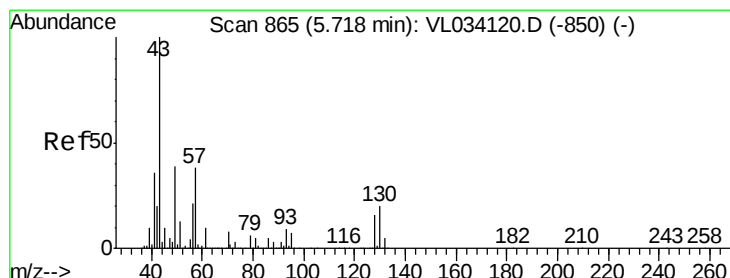
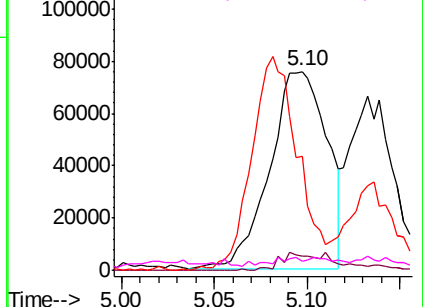
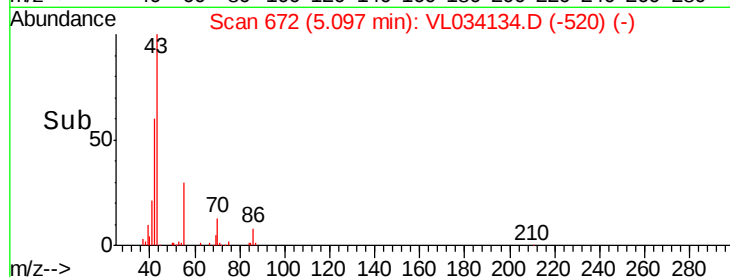


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 10.157 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Tgt Ion: 43 Resp: 2392724

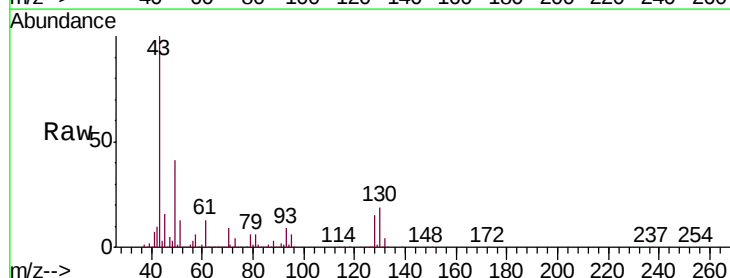
Ion Ratio Lower Upper

43 100

45 14.1 8.2 12.4#

61 11.7 7.4 11.2#

70 8.5 5.6 8.4#

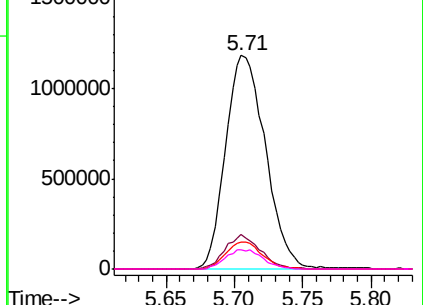
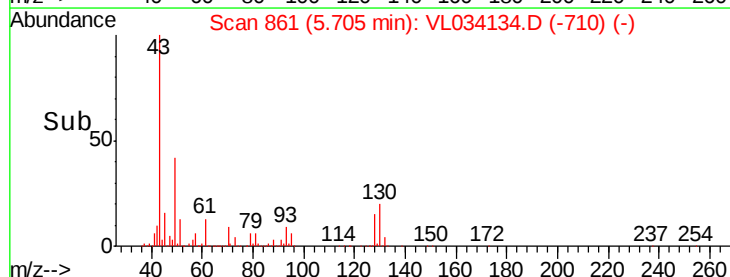


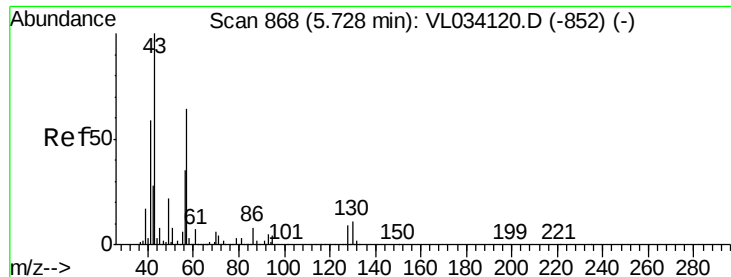
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

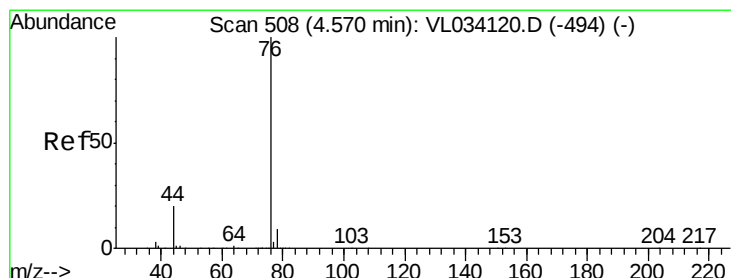
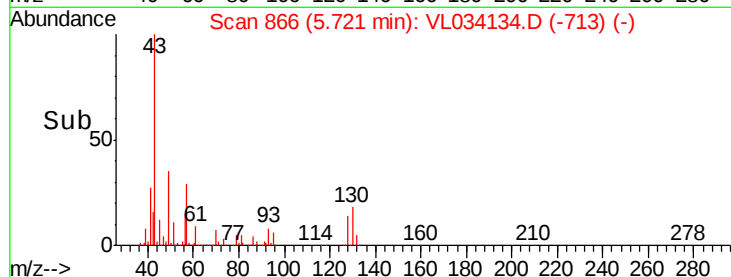
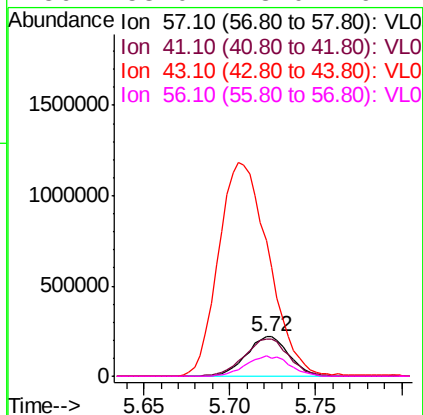
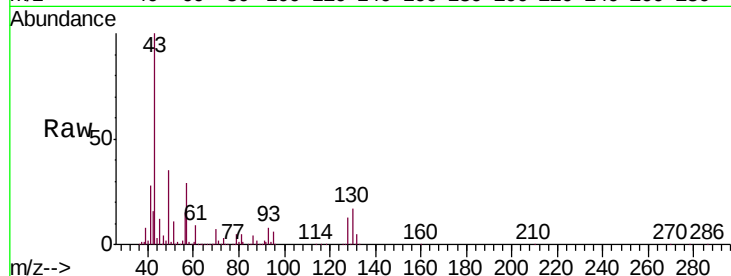




#26
Hexane
Concen: 3.582 ppbv
RT: 5.72 min Scan# 866
Delta R.T. -0.01 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

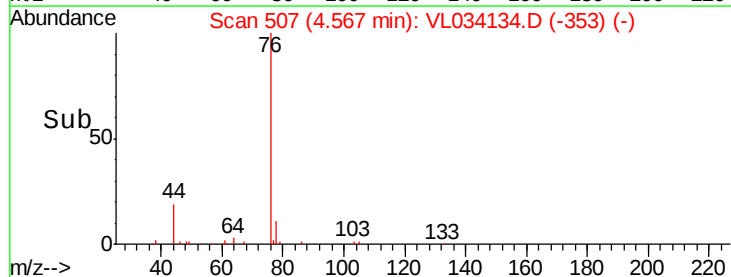
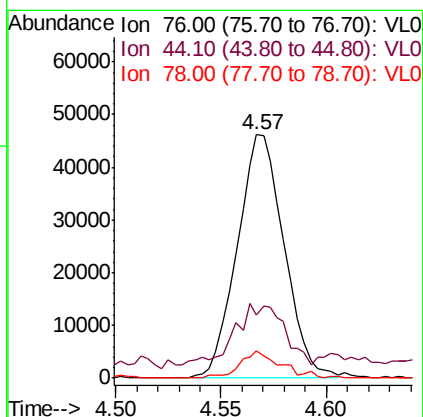
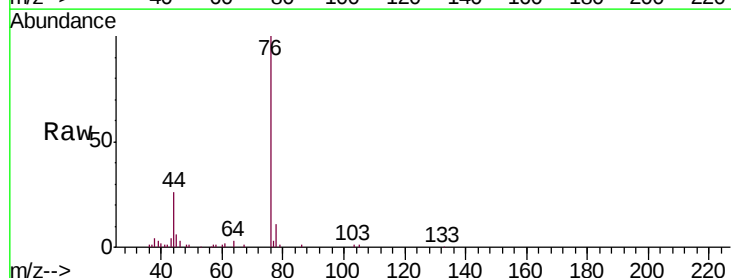
Instrument :
MSVOA_L
ClientSampleId :
SOIL

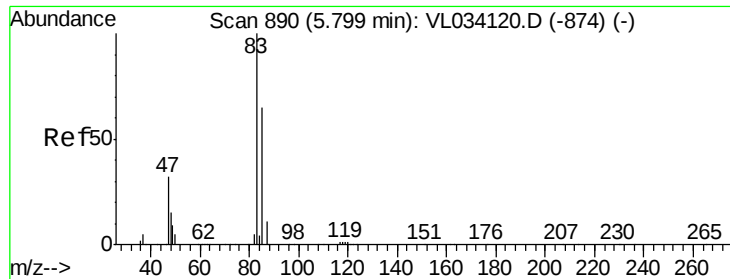
Tgt Ion: 57 Resp: 375195
Ion Ratio Lower Upper
57 100
41 98.4 76.6 115.0
43 643.2 189.2 283.8#
56 53.0 43.0 64.4



#27
Carbon Disulfide
Concen: 0.753 ppbv
RT: 4.57 min Scan# 507
Delta R.T. -0.00 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

Tgt Ion: 76 Resp: 71203
Ion Ratio Lower Upper
76 100
44 36.1 17.6 26.4#
78 9.8 7.3 10.9





#29

Chloroform

Concen: 3.341 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

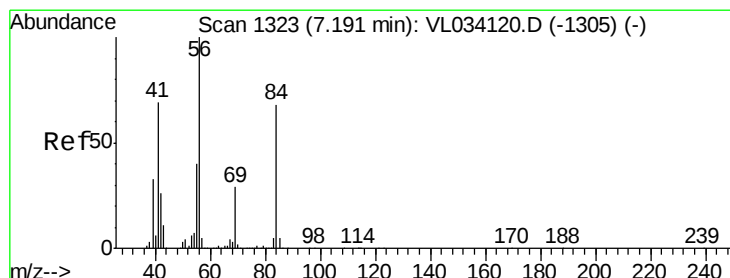
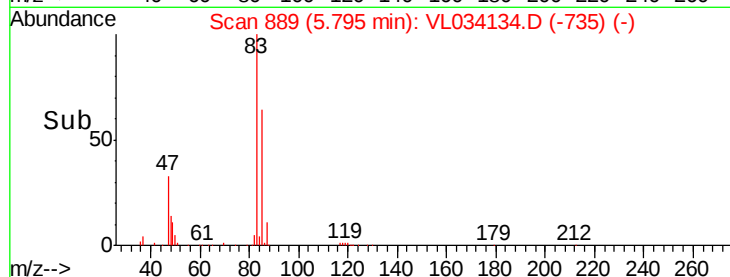
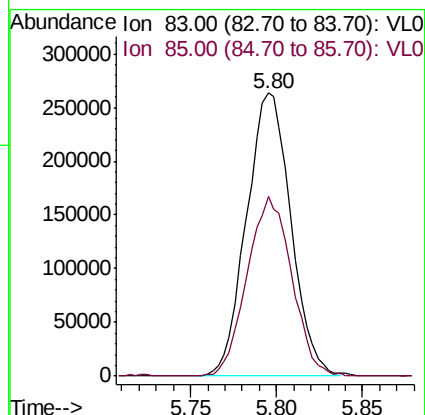
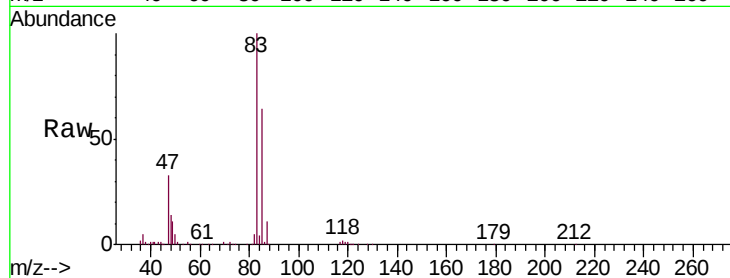
SOIL

Tgt Ion: 83 Resp: 471945

Ion Ratio Lower Upper

83 100

85 63.5 51.8 77.6



#30

Cyclohexane

Concen: 0.417 ppbv

RT: 7.18 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

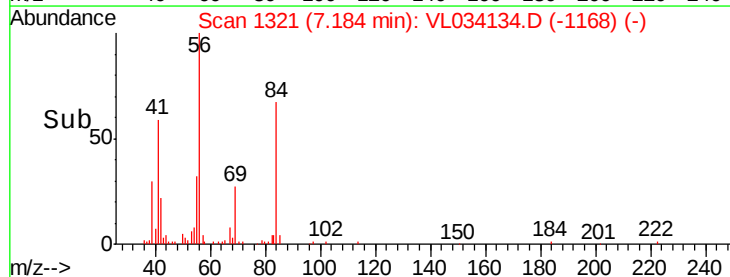
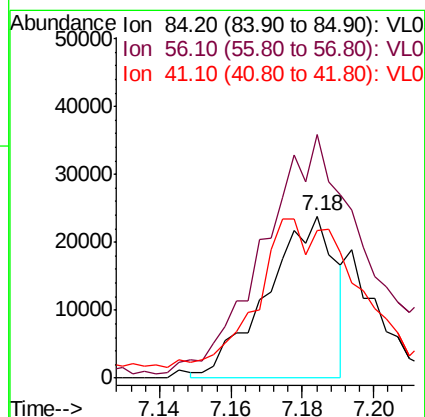
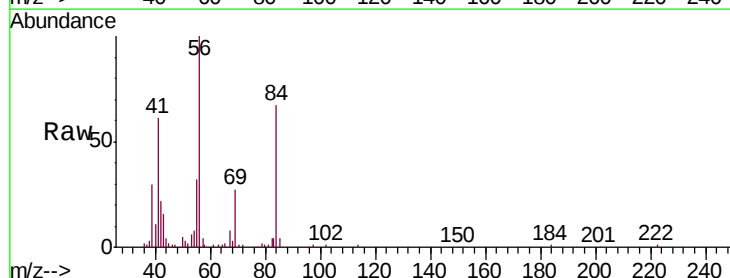
Tgt Ion: 84 Resp: 31605

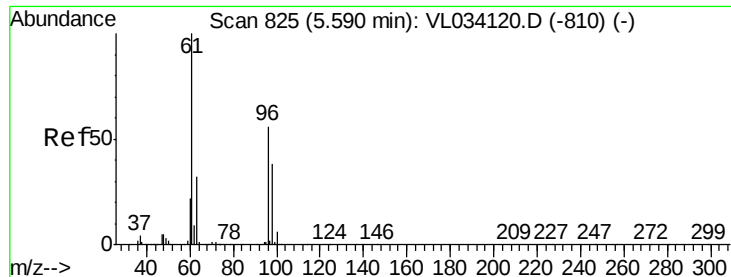
Ion Ratio Lower Upper

84 100

56 216.6 122.6 183.8#

41 157.6 79.1 118.7#





#31

cis-1,2-Dichloroethene

Concen: 2.787 ppbv

RT: 5.71 min Scan# 861

Delta R.T. 0.12 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

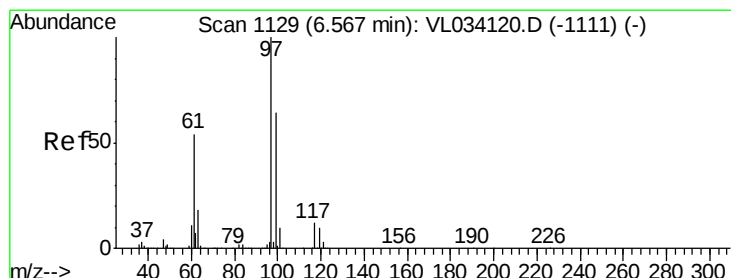
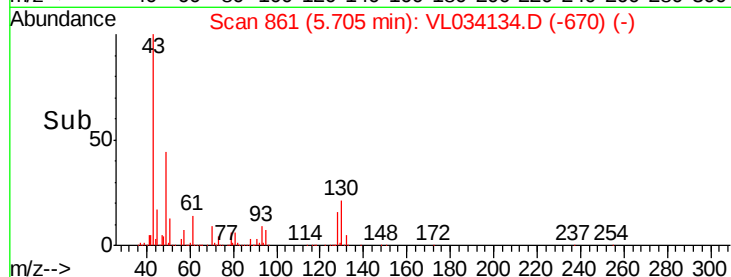
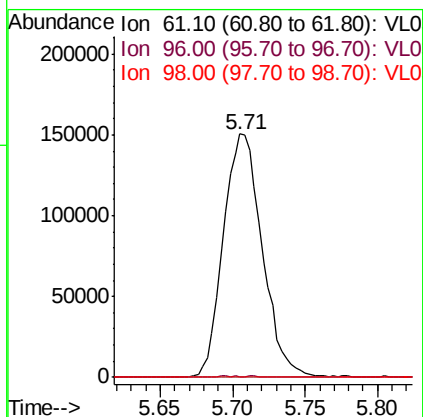
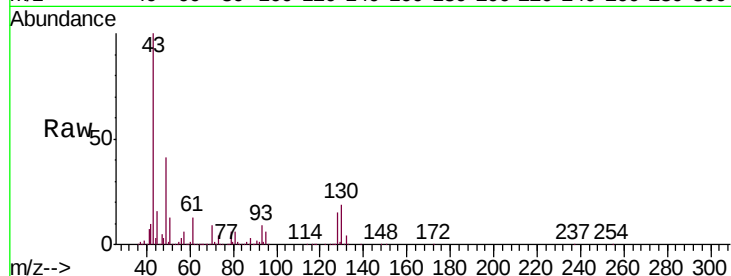
MSVOA_L

ClientSampleId :

SOIL

Tgt Ion: 61 Resp: 279545

Ion	Ratio	Lower	Upper
61	100		
96	0.4	44.4	66.6#
98	0.0	30.0	45.0#



#32

1,1,1-Trichloroethane

Concen: 0.045 ppbv

RT: 6.56 min Scan# 1127

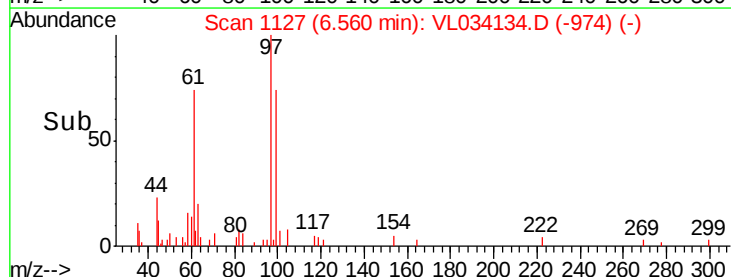
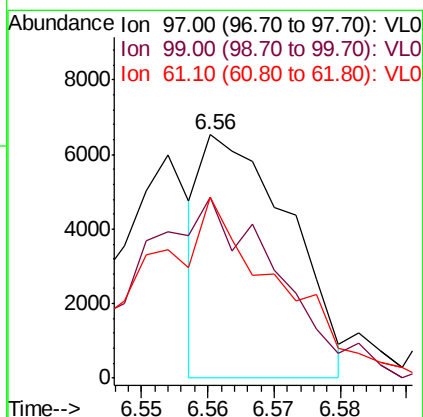
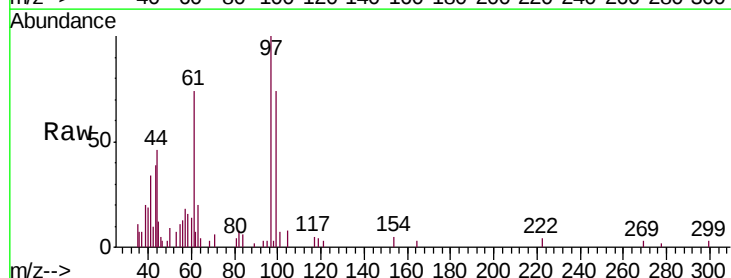
Delta R.T. -0.01 min

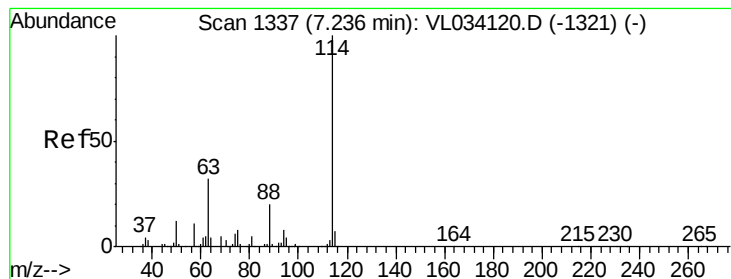
Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Tgt Ion: 97 Resp: 5974

Ion	Ratio	Lower	Upper
97	100		
99	129.4	51.7	77.5#
61	126.5	44.0	66.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

SOIL

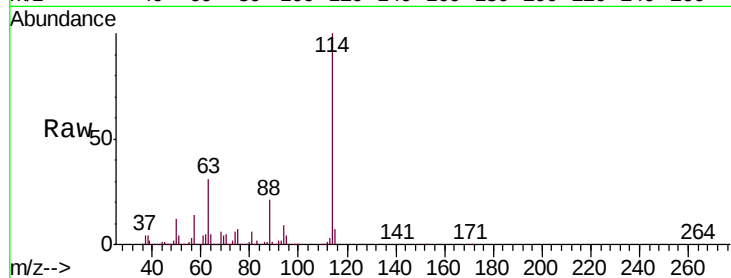
Tgt Ion: 114 Resp: 1711798

Ion Ratio Lower Upper

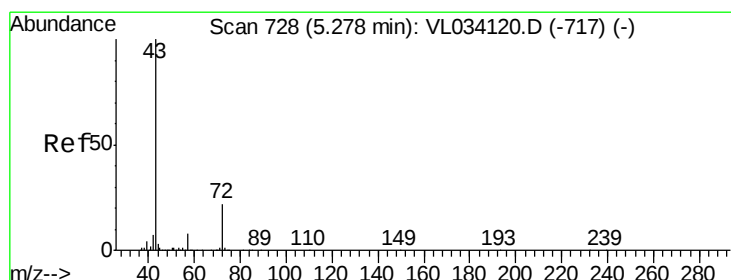
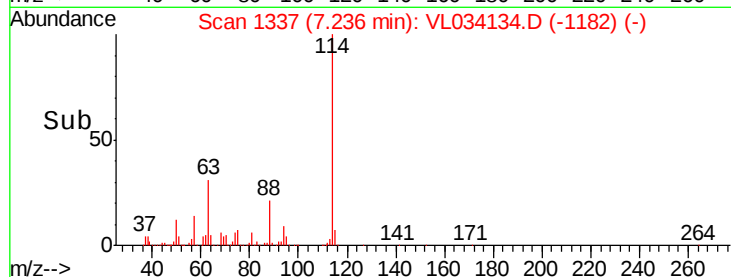
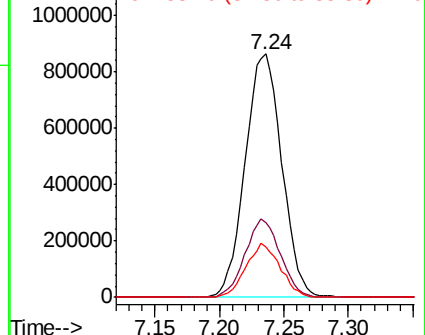
114 100

63 31.0 25.5 38.3

88 20.7 16.8 25.2



Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 11.442 ppbv

RT: 5.27 min Scan# 727

Delta R.T. -0.00 min

Lab File: VL034134.D

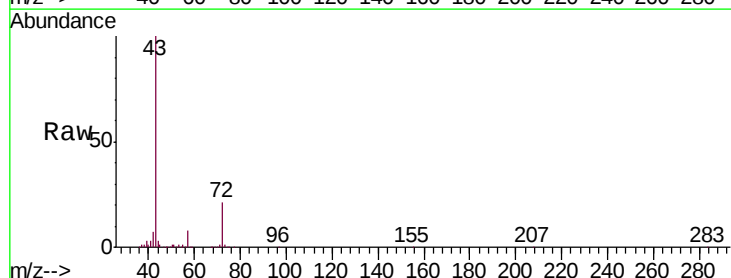
Acq: 5 Sep 2019 13:32

Tgt Ion: 43 Resp: 1882965

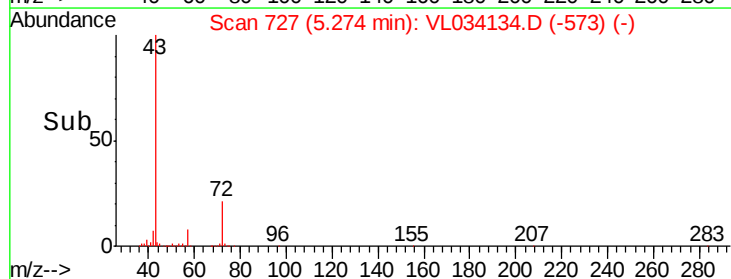
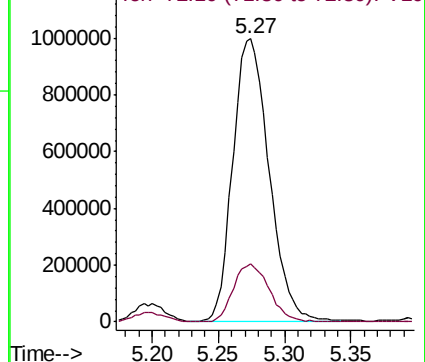
Ion Ratio Lower Upper

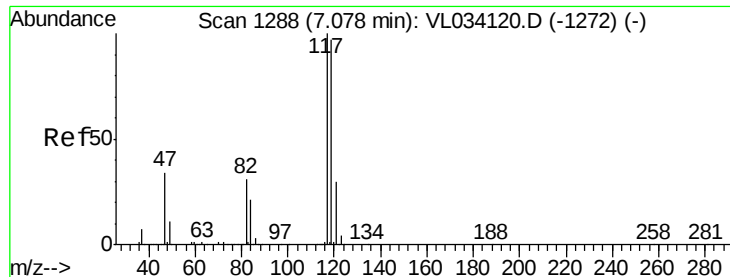
43 100

72 20.4 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.032 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

SOIL

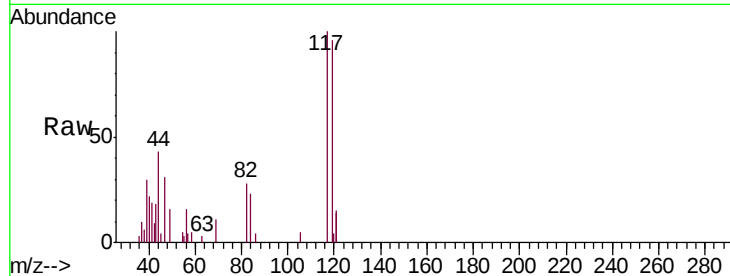
Tgt Ion:117 Resp: 4321

Ion Ratio Lower Upper

117 100

119 92.4 77.2 115.8

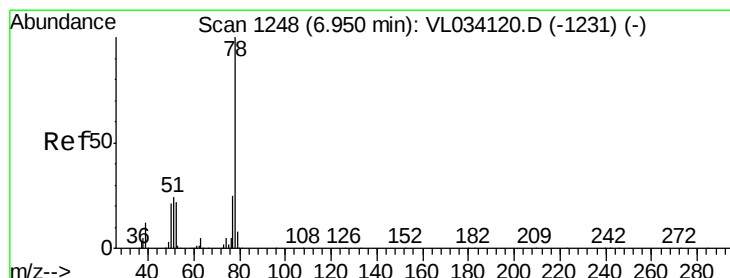
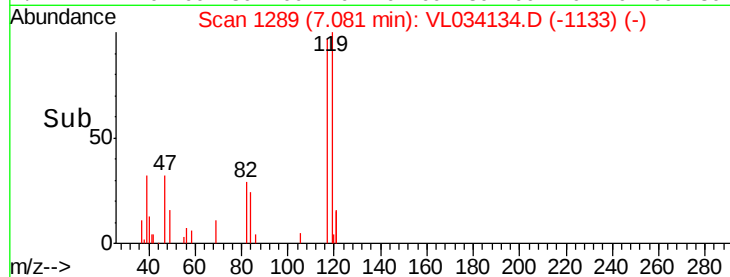
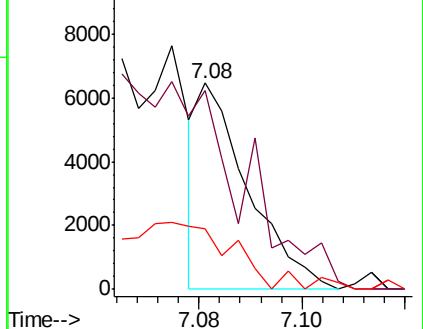
121 26.3 24.2 36.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.378 ppbv

RT: 6.94 min Scan# 1245

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

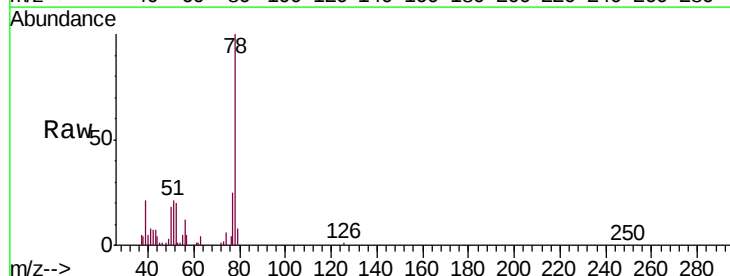
Tgt Ion: 78 Resp: 73985

Ion Ratio Lower Upper

78 100

77 24.6 20.3 30.5

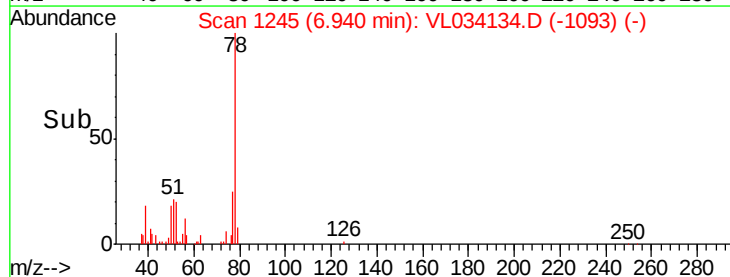
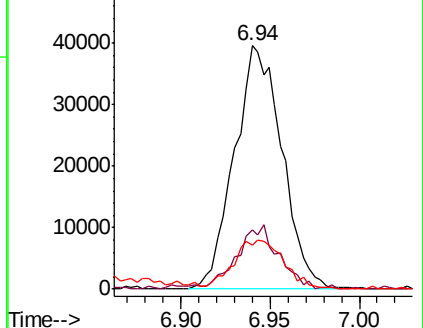
50 18.0 16.9 25.3

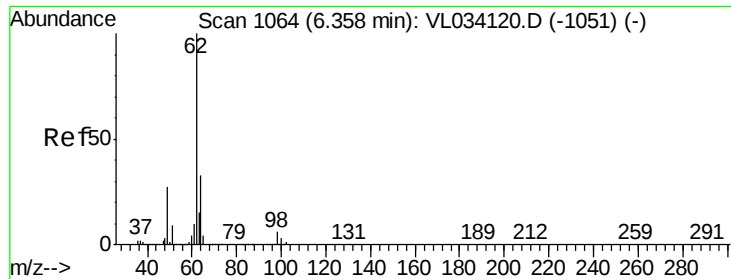


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

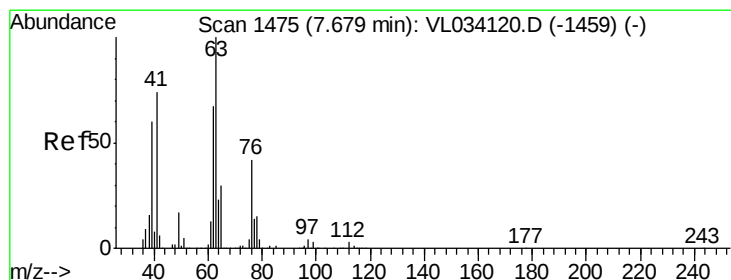
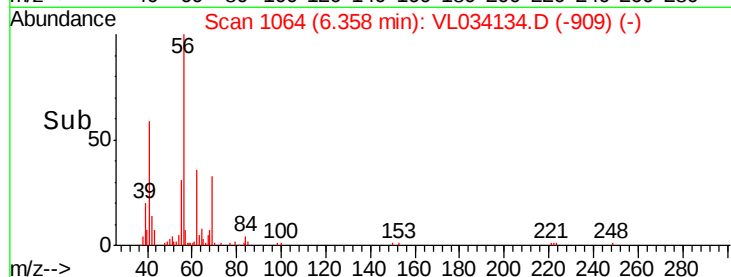
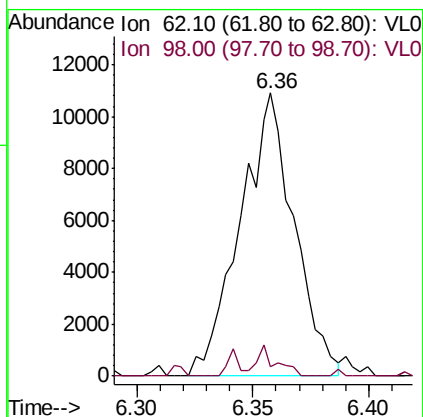
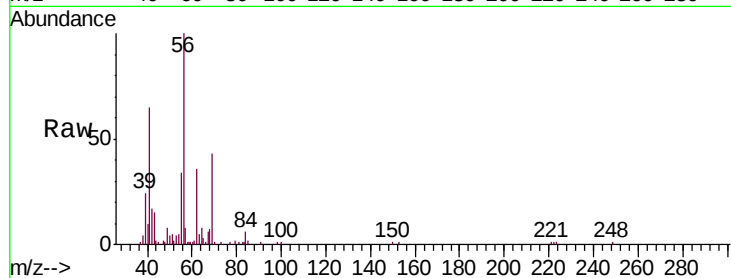




#37
 1,2-Dichloroethane
 Concen: 0.147 ppbv
 RT: 6.36 min Scan# 1064
 Delta R.T. -0.00 min
 Lab File: VL034134.D
 Acq: 5 Sep 2019 13:32

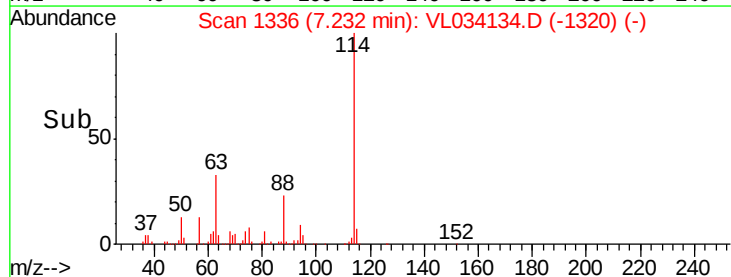
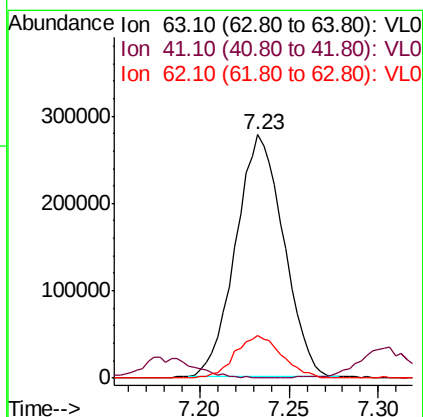
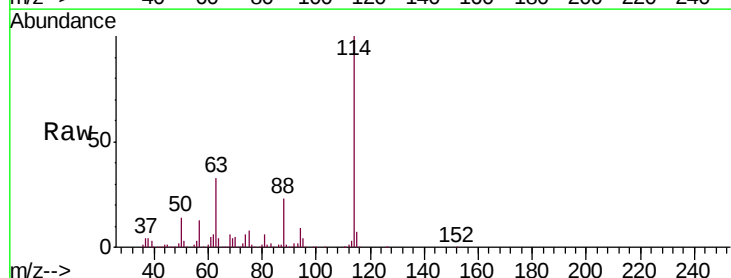
Instrument :
 MSVOA_L
 ClientSampleId :
 SOIL

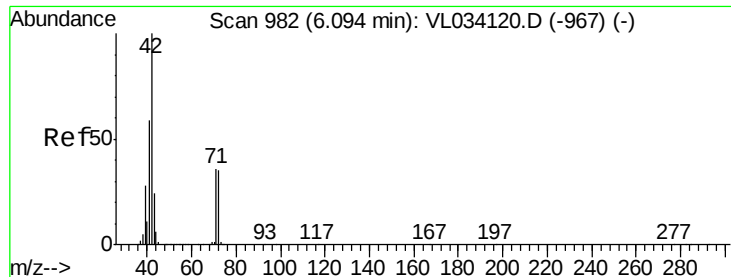
Tgt Ion: 62 Resp: 17616
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.4 6.6



#39
 1,2-Dichloropropane
 Concen: 6.217 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.45 min
 Lab File: VL034134.D
 Acq: 5 Sep 2019 13:32

Tgt Ion: 63 Resp: 520593
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.3 88.9#
 62 17.4 53.8 80.6#





#41

Tetrahydrofuran

Concen: 0.047 ppbv

RT: 6.09 min Scan# 982

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

SOIL

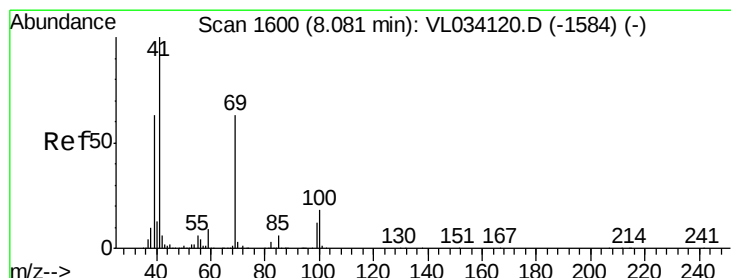
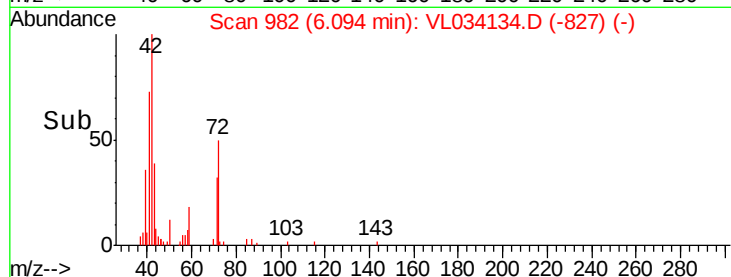
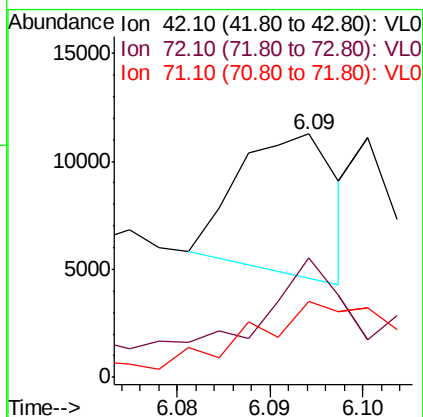
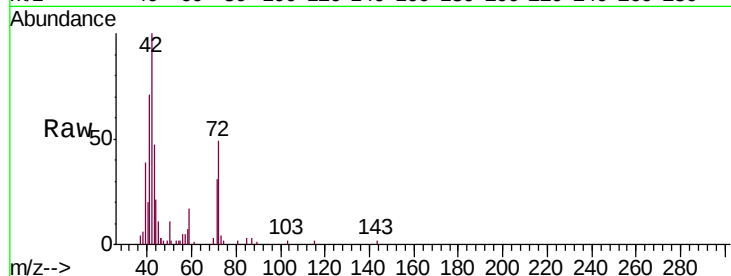
Tgt Ion: 42 Resp: 4640

Ion Ratio Lower Upper

42 100

72 205.4 27.7 41.5#

71 132.2 26.7 40.1#



#43

Methyl Methacrylate

Concen: 0.051 ppbv

RT: 8.08 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

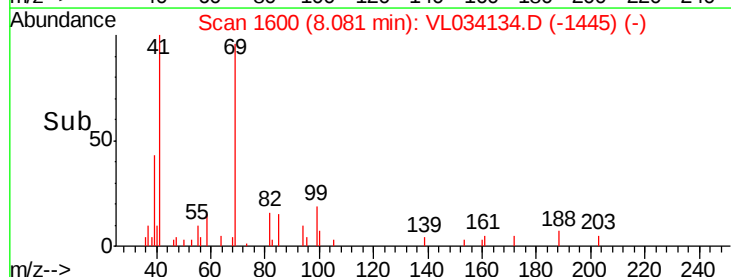
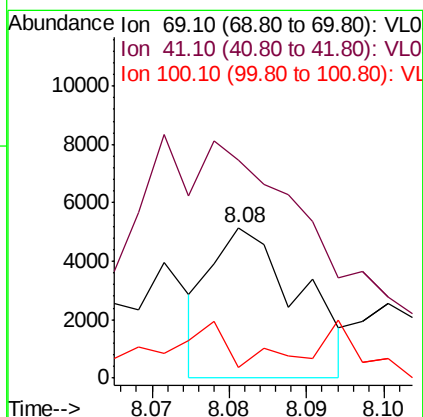
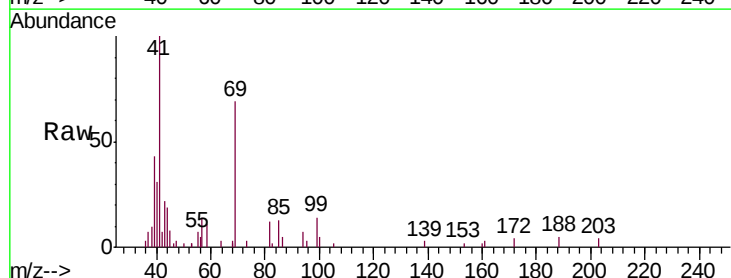
Tgt Ion: 69 Resp: 4080

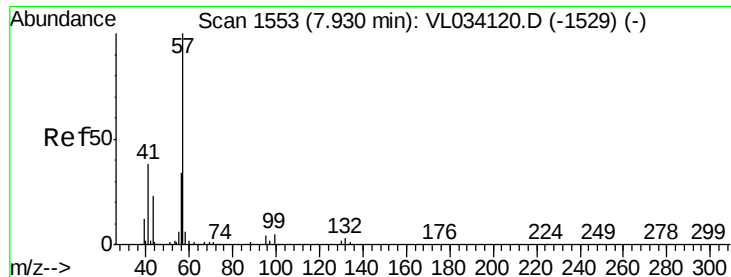
Ion Ratio Lower Upper

69 100

41 0.0 131.0 196.6#

100 0.0 22.6 33.8#

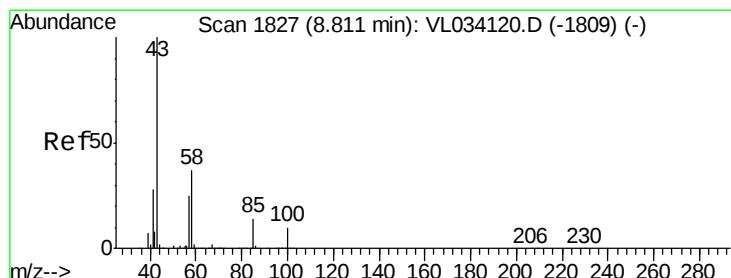
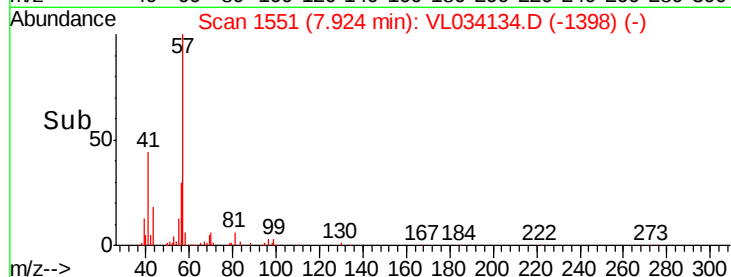
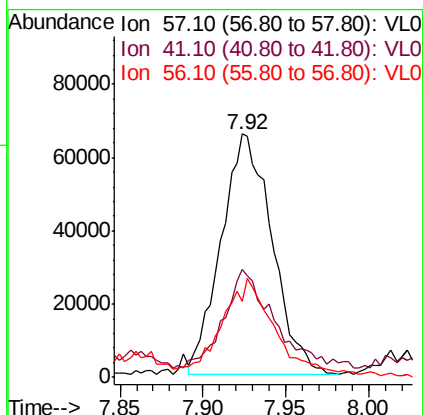
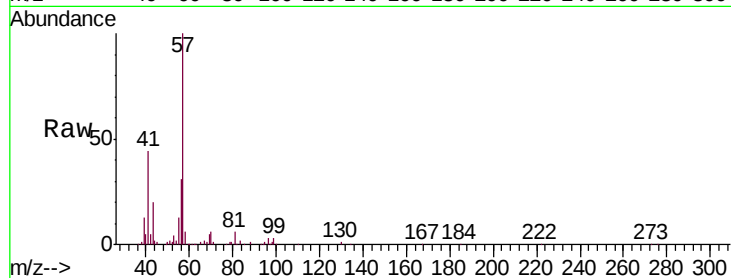




#44
 2,2,4-Trimethylpentane
 Concen: 0.388 ppbv
 RT: 7.92 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: VL034134.D
 Acq: 5 Sep 2019 13:32

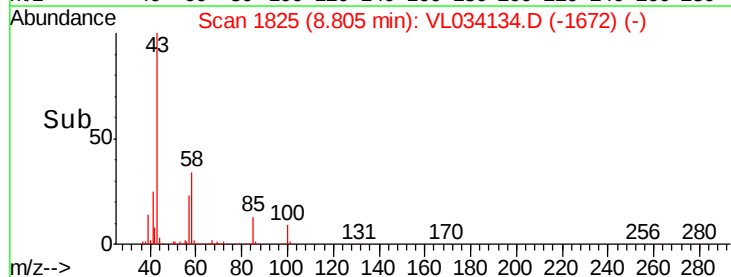
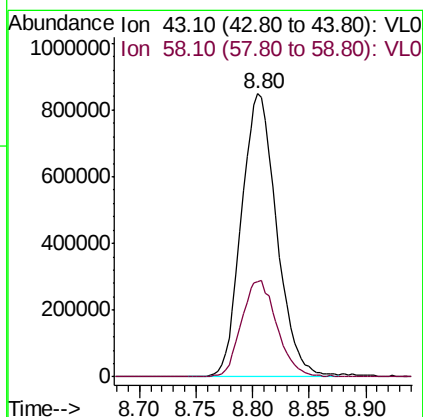
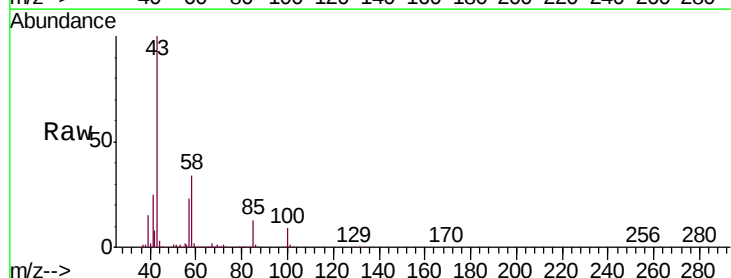
Instrument :
 MSVOA_L
 ClientSampleId :
 SOIL

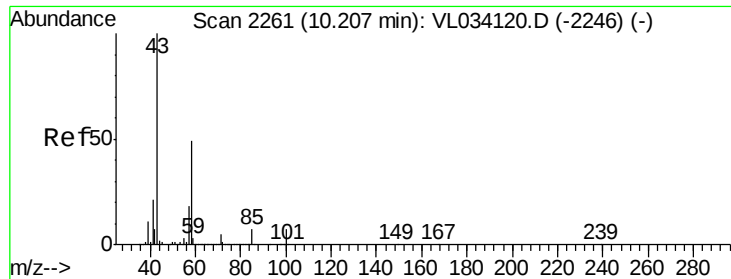
Tgt Ion: 57 Resp: 140130
 Ion Ratio Lower Upper
 57 100
 41 46.3 28.4 42.6#
 56 45.3 26.3 39.5#



#50
 4-Methyl-2-Pentanone
 Concen: 7.312 ppbv
 RT: 8.80 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: VL034134.D
 Acq: 5 Sep 2019 13:32

Tgt Ion: 43 Resp: 1836287
 Ion Ratio Lower Upper
 43 100
 58 34.4 28.5 42.7





#51

2-Hexanone

Concen: 0.054 ppbv

RT: 10.21 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

SOIL

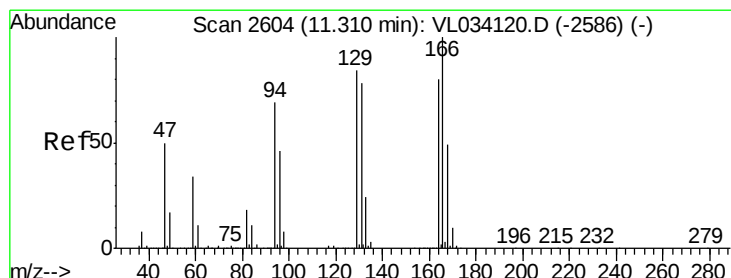
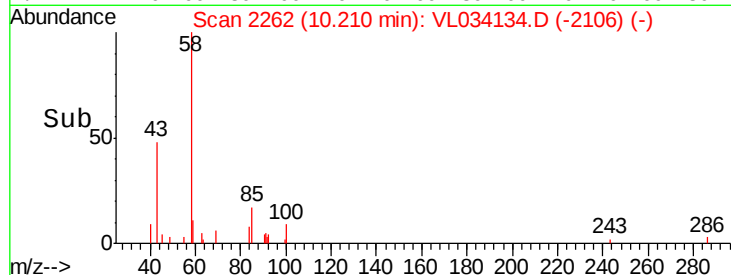
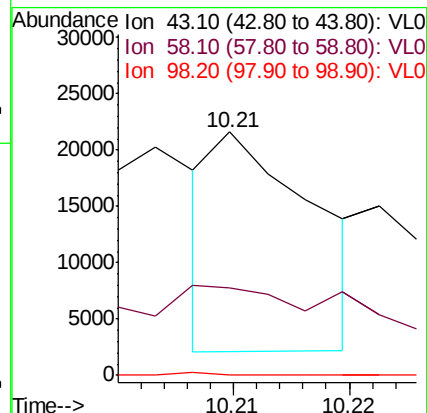
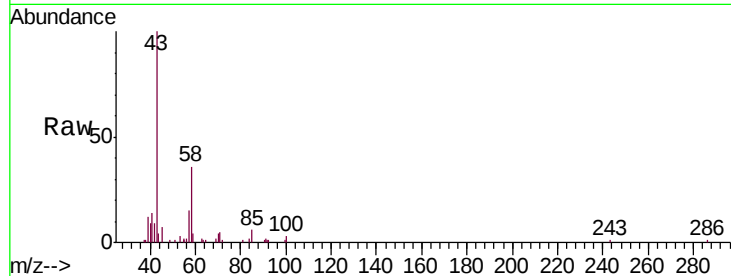
Tgt Ion: 43 Resp: 11667

Ion Ratio Lower Upper

43 100

58 154.5 38.2 57.2#

98 0.0 0.1 0.1#



#52

Tetrachloroethene

Concen: 0.033 ppbv

RT: 11.31 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Tgt Ion: 164 Resp: 2277

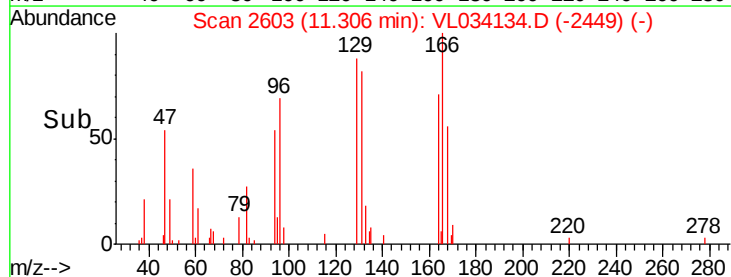
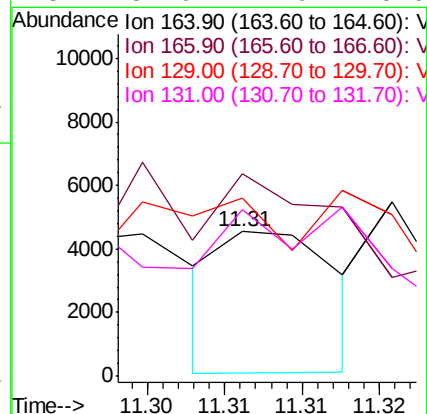
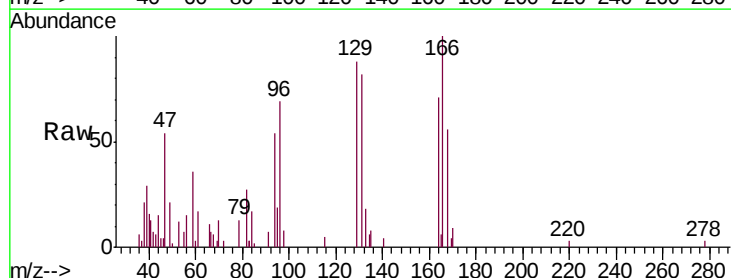
Ion Ratio Lower Upper

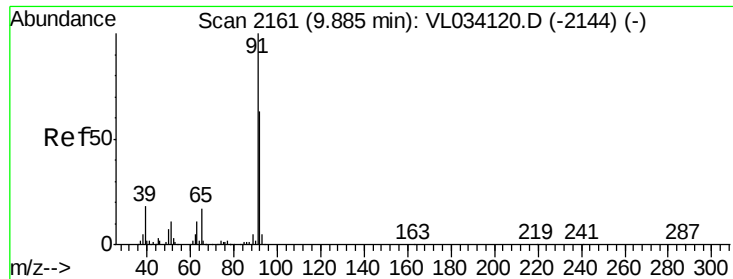
164 100

166 154.5 99.5 149.3#

129 40.1 83.6 125.4#

131 137.9 77.9 116.9#





#53

Toluene

Concen: 14.310 ppbv

RT: 9.88 min Scan# 2160

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

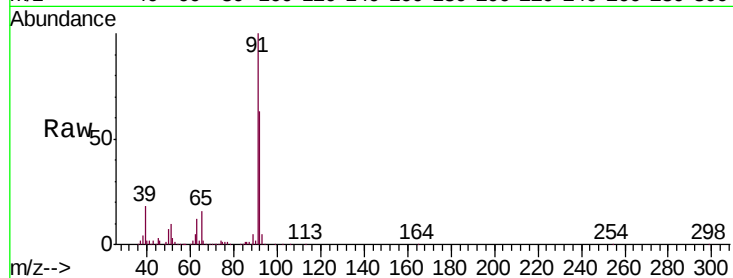
SOIL

Tgt Ion: 91 Resp: 3096801

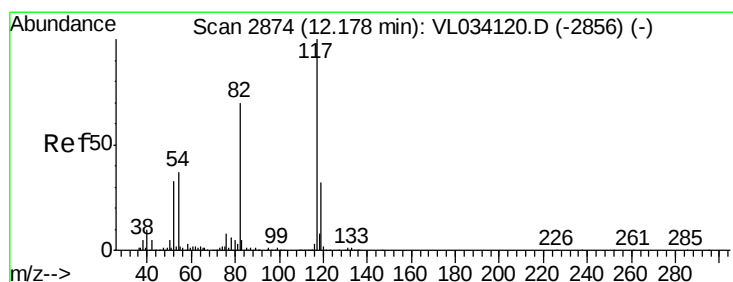
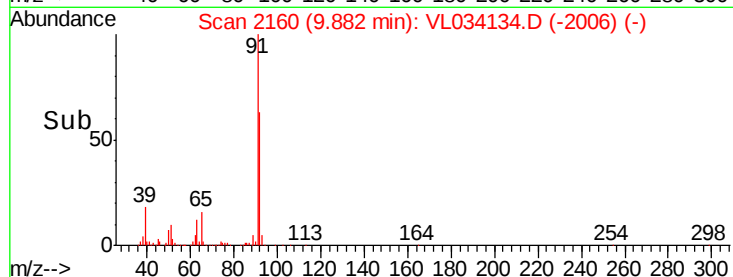
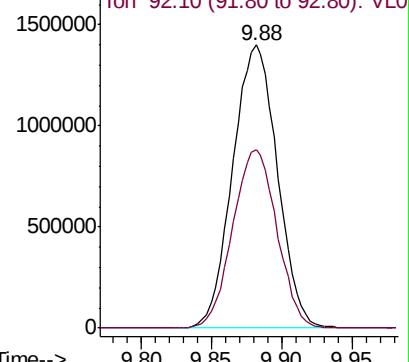
Ion Ratio Lower Upper

91 100

92 62.6 49.3 73.9



Abundance Ion 91.10 (90.80 to 91.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2873

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

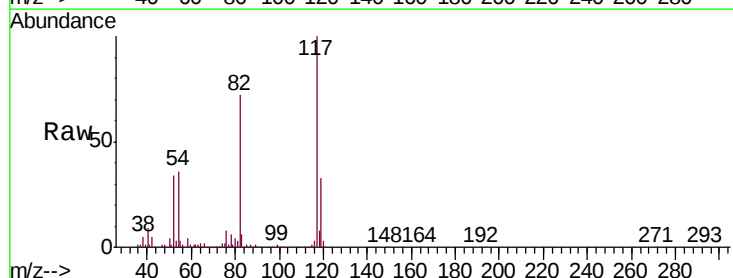
Tgt Ion: 117 Resp: 1706250

Ion Ratio Lower Upper

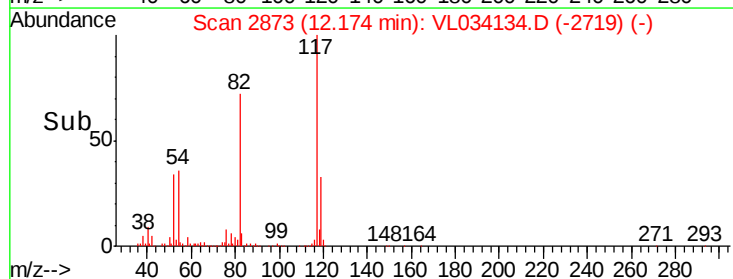
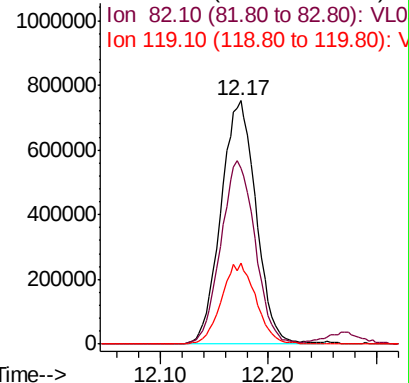
117 100

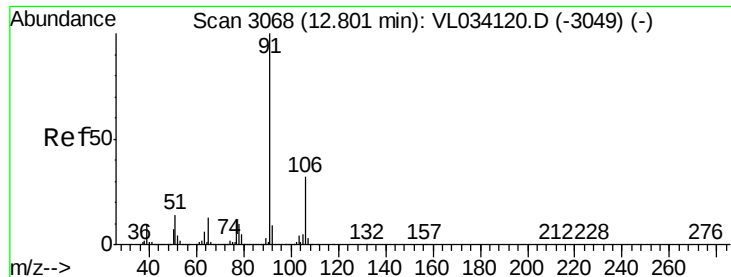
82 73.6 55.8 83.6

119 33.1 43.1 64.7#



Abundance Ion 117.10 (116.80 to 117.80): V





#58

Ethyl Benzene

Concen: 1.567 ppbv

RT: 12.79 min Scan# 3066

Delta R.T. -0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

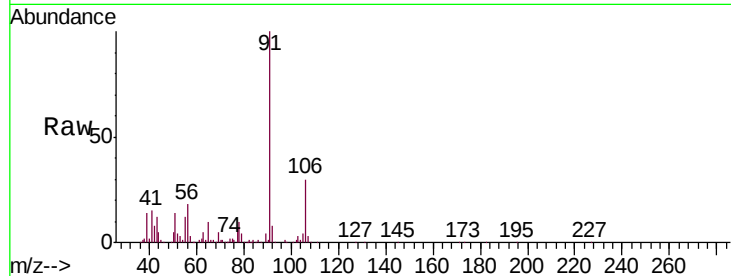
SOIL

Tgt Ion: 91 Resp: 438295

Ion Ratio Lower Upper

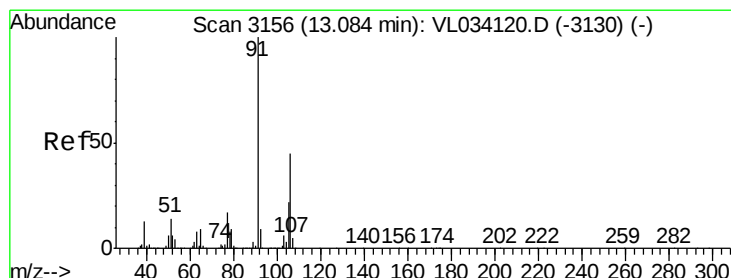
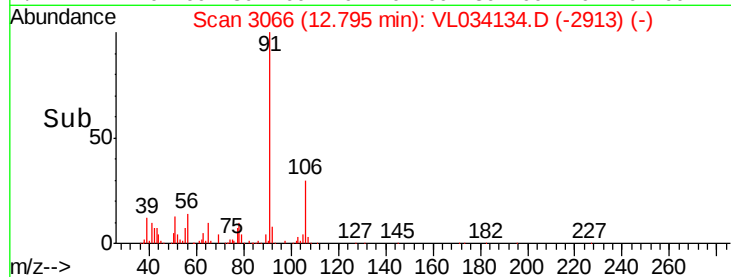
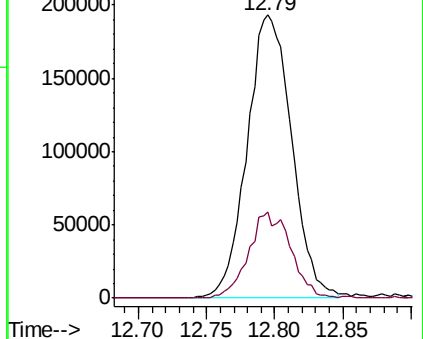
91 100

106 30.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 3.853 ppbv

RT: 13.06 min Scan# 3147

Delta R.T. -0.03 min

Lab File: VL034134.D

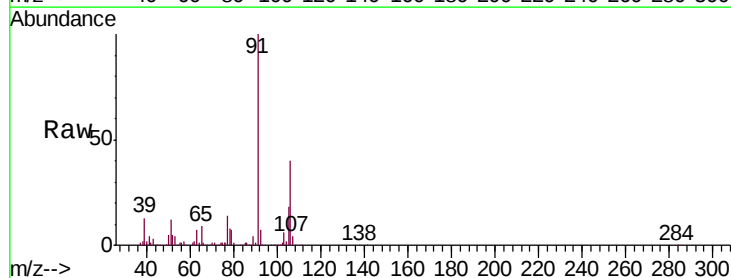
Acq: 5 Sep 2019 13:32

Tgt Ion: 91 Resp: 879330

Ion Ratio Lower Upper

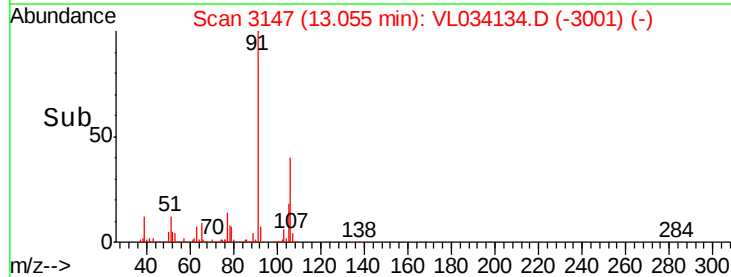
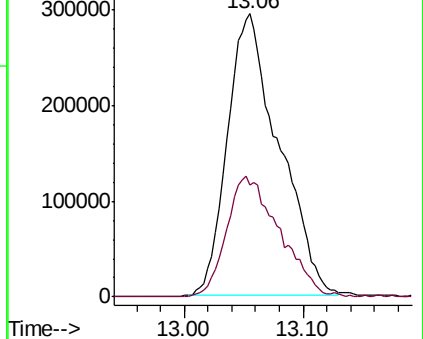
91 100

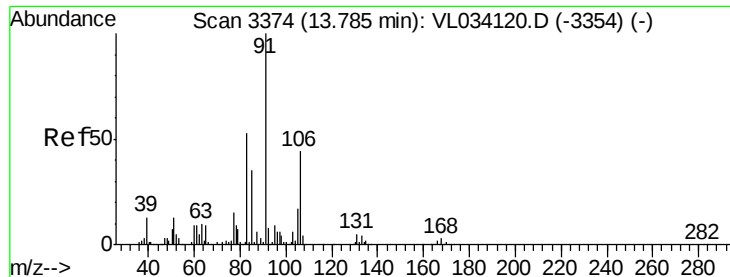
106 44.2 35.4 53.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

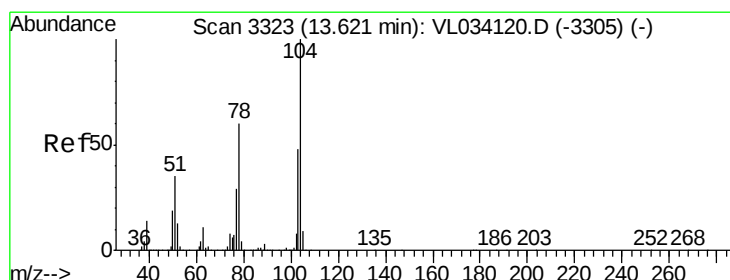
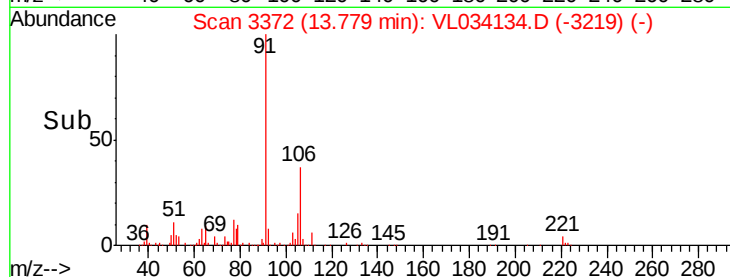
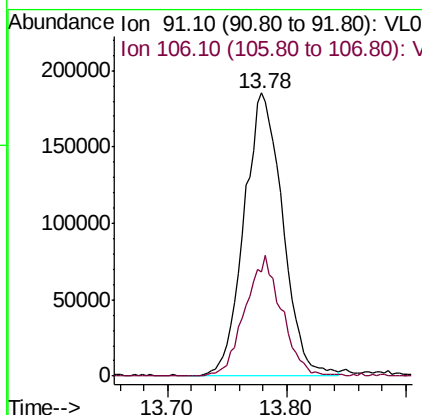
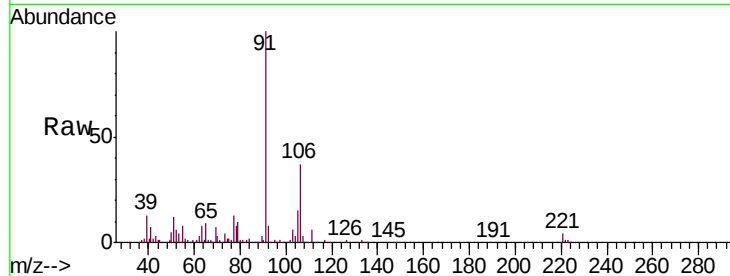




#60
o-Xylene
Concen: 1.833 ppbv
RT: 13.78 min Scan# 3372
Delta R.T. -0.01 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

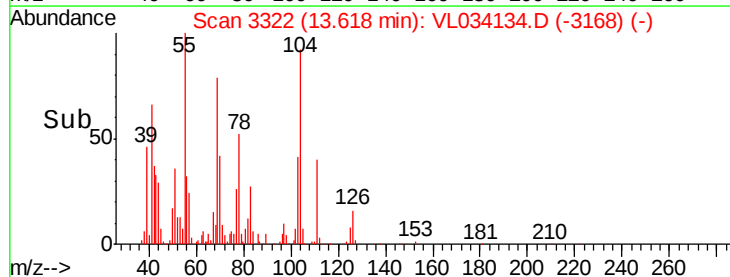
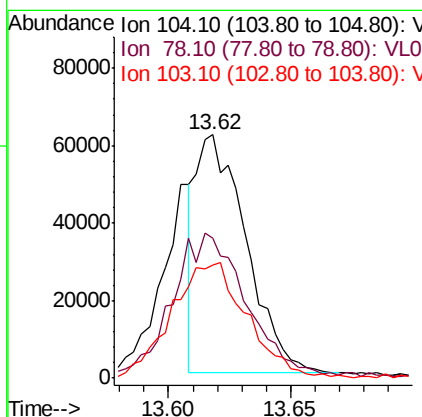
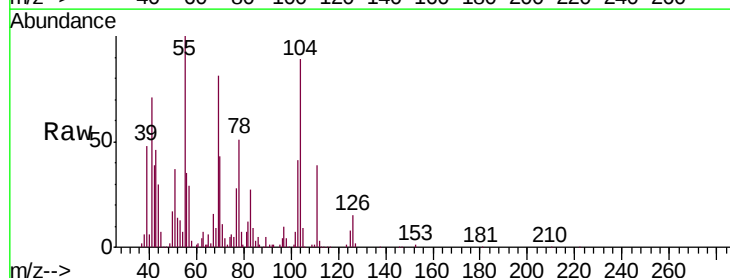
Instrument :
MSVOA_L
ClientSampleId :
SOIL

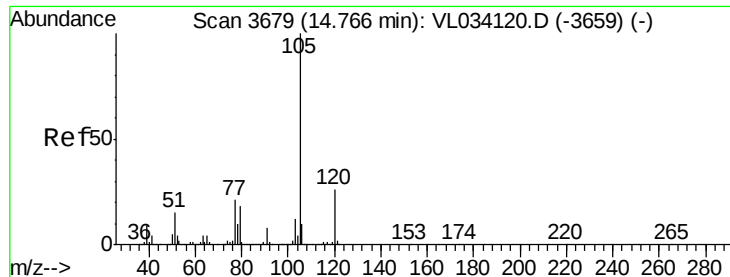
Tgt Ion: 91 Resp: 416701
Ion Ratio Lower Upper
91 100
106 40.6 21.4 64.3



#61
Styrene
Concen: 0.512 ppbv
RT: 13.62 min Scan# 3322
Delta R.T. -0.00 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

Tgt Ion: 104 Resp: 87078
Ion Ratio Lower Upper
104 100
78 94.4 47.8 71.6#
103 73.8 38.7 58.1#





#62

Isopropylbenzene

Concen: 0.081 ppbv

RT: 14.77 min Scan# 3679

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

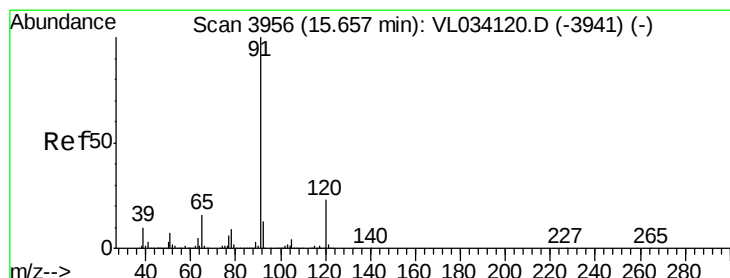
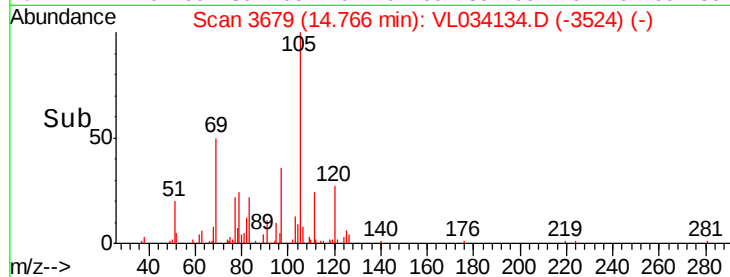
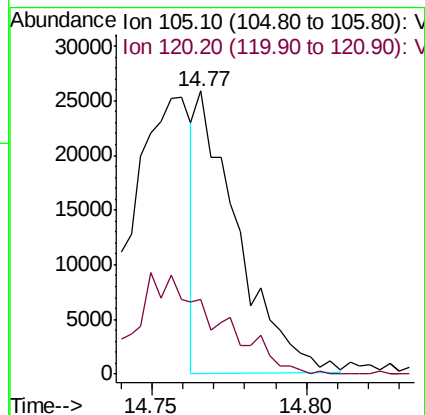
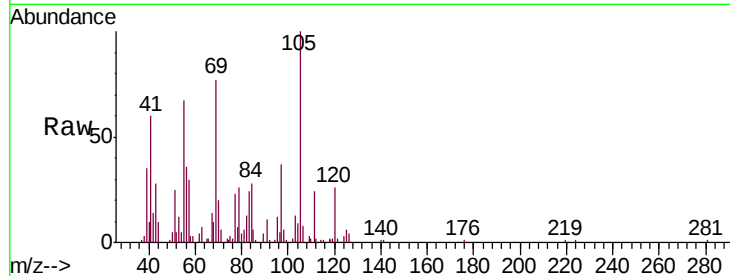
SOIL

Tgt Ion:105 Resp: 23966

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#



#64

n-propylbenzene

Concen: 0.176 ppbv

RT: 15.66 min Scan# 3956

Delta R.T. -0.00 min

Lab File: VL034134.D

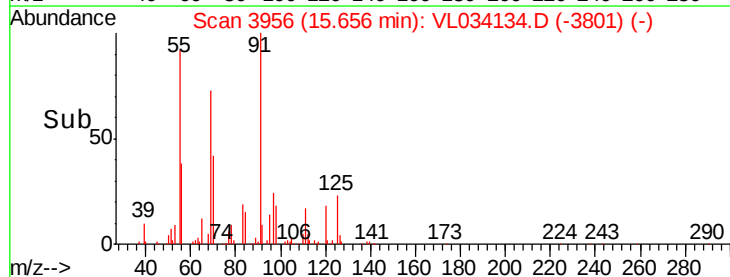
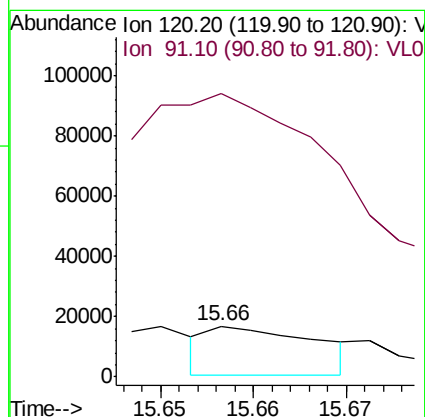
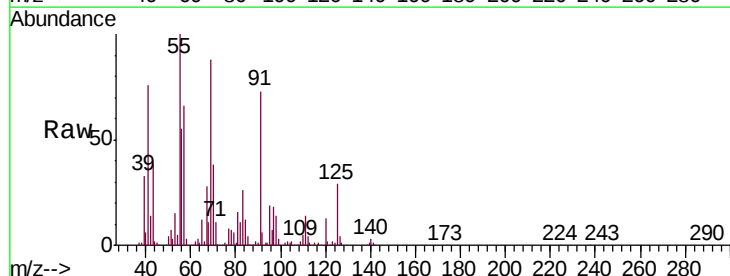
Acq: 5 Sep 2019 13:32

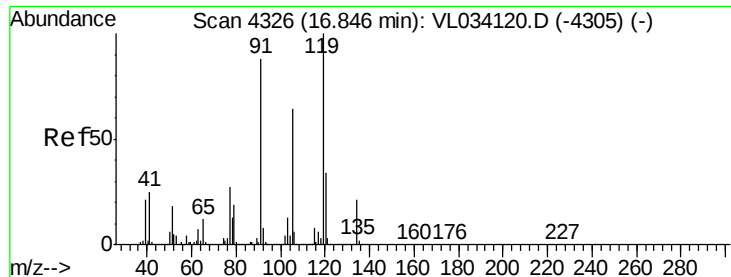
Tgt Ion:120 Resp: 13059

Ion Ratio Lower Upper

120 100

91 1911.0 376.8 565.2#





#65

tert-Butylbenzene

Concen: 0.363 ppbv

RT: 16.86 min Scan# 4330

Delta R.T. 0.01 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

SOIL

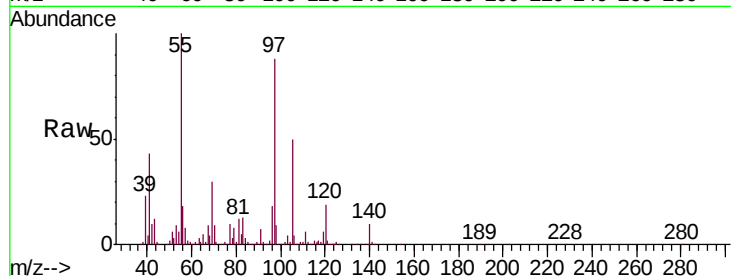
Tgt Ion:119 Resp: 92709

Ion Ratio Lower Upper

119 100

91 127.1 72.8 109.2#

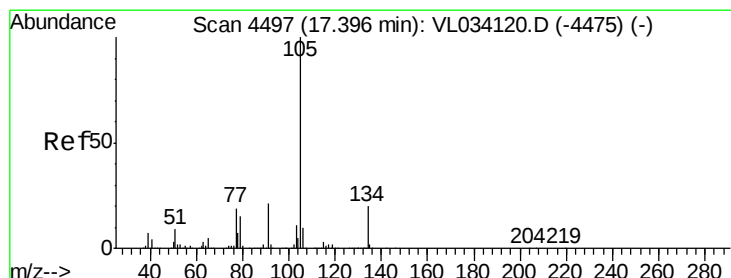
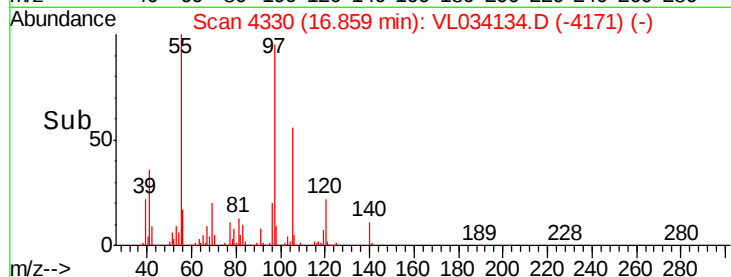
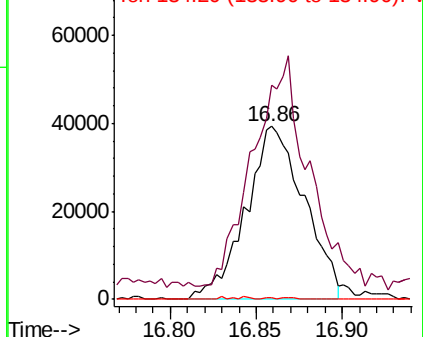
134 0.0 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#67

sec-Butylbenzene

Concen: 0.111 ppbv

RT: 17.40 min Scan# 4497

Delta R.T. -0.00 min

Lab File: VL034134.D

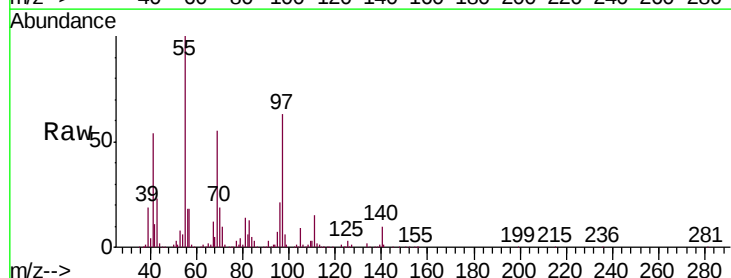
Acq: 5 Sep 2019 13:32

Tgt Ion:105 Resp: 40733

Ion Ratio Lower Upper

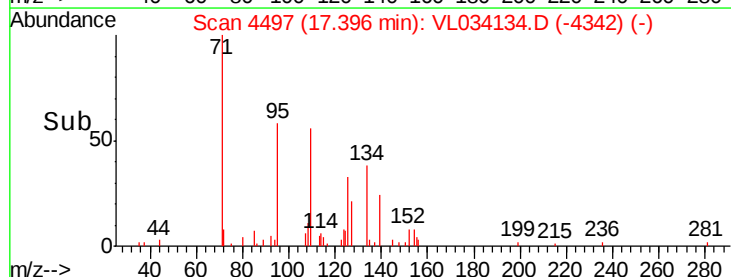
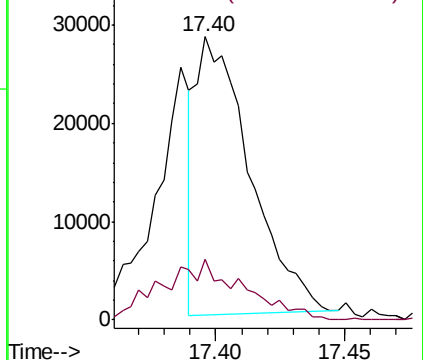
105 100

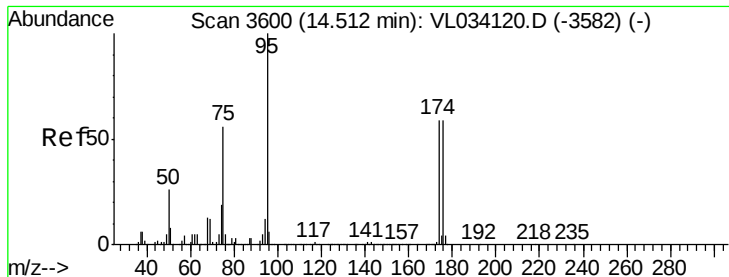
134 33.4 15.0 22.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.673 ppbv

RT: 14.51 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampleId :

SOIL

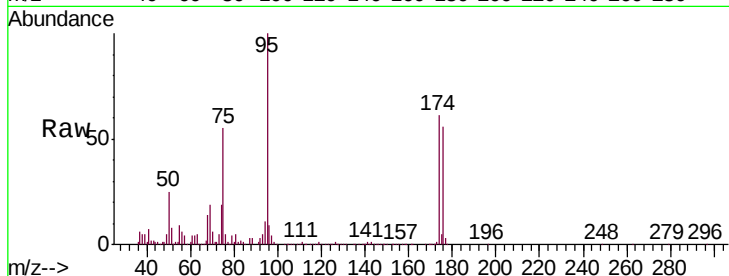
Tgt Ion: 95 Resp: 1488772

Ion Ratio Lower Upper

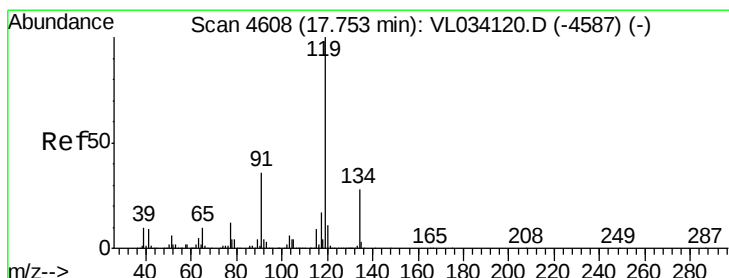
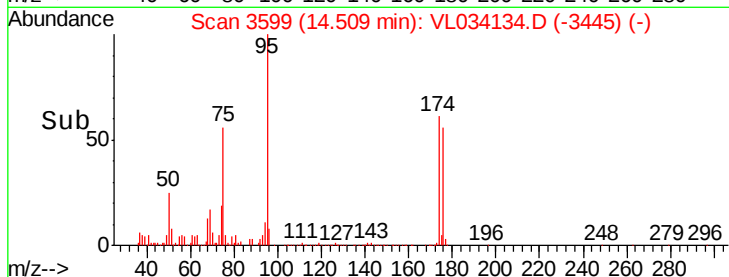
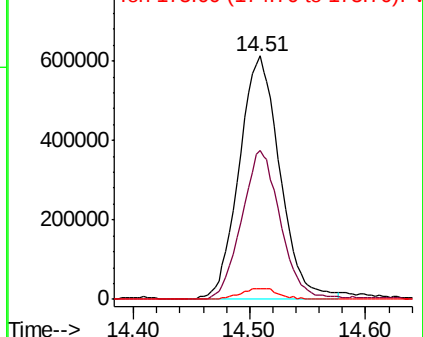
95 100

174 59.5 48.1 72.1

175 4.3 3.5 5.3



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 1.251 ppbv

RT: 17.75 min Scan# 4608

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

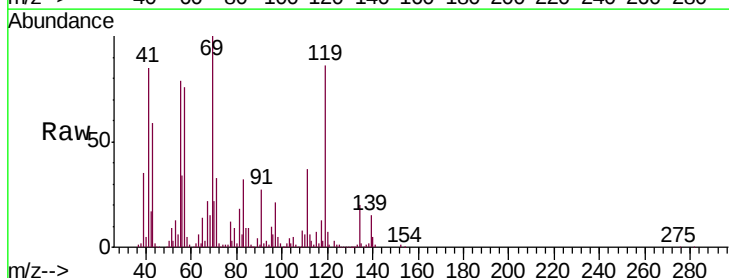
Tgt Ion: 119 Resp: 367513

Ion Ratio Lower Upper

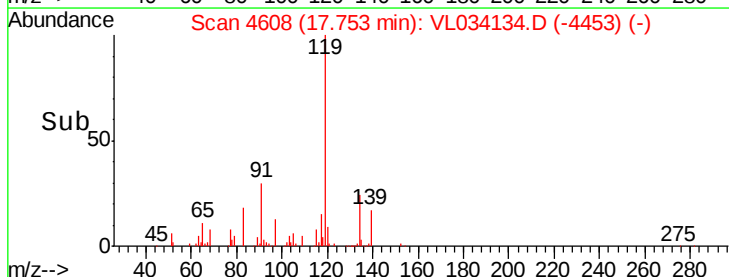
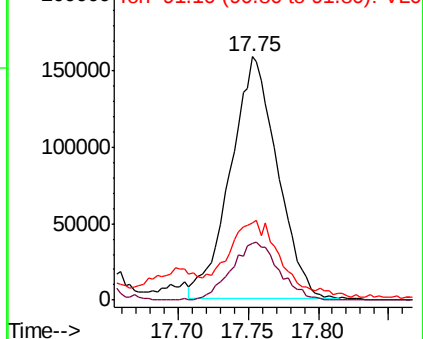
119 100

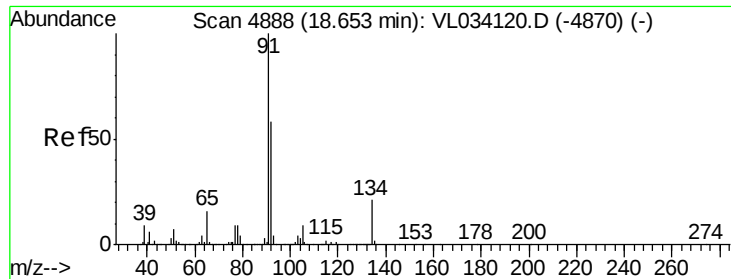
134 24.5 20.8 31.2

91 51.0 27.2 40.8#



Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): VL0

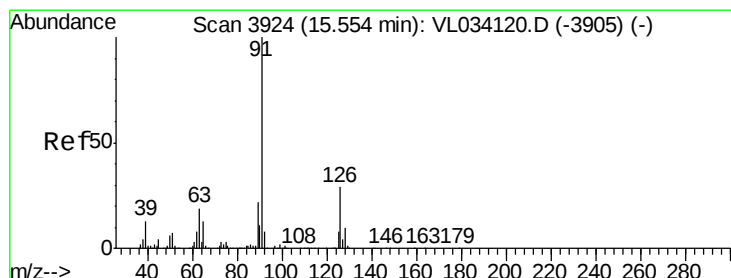
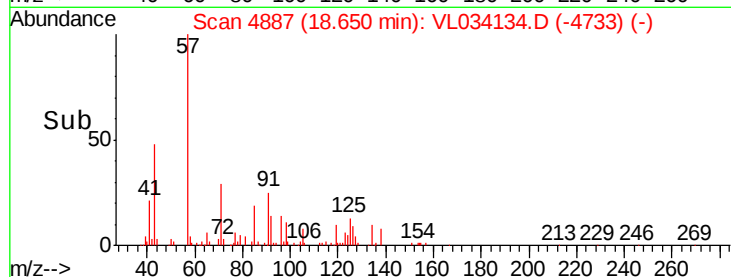
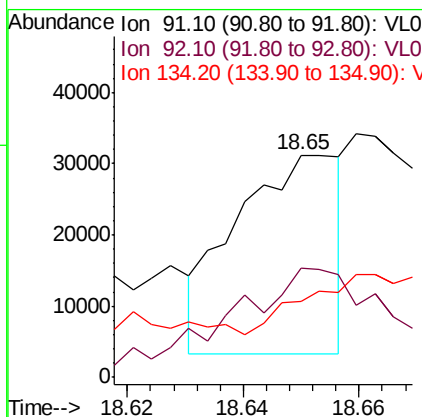
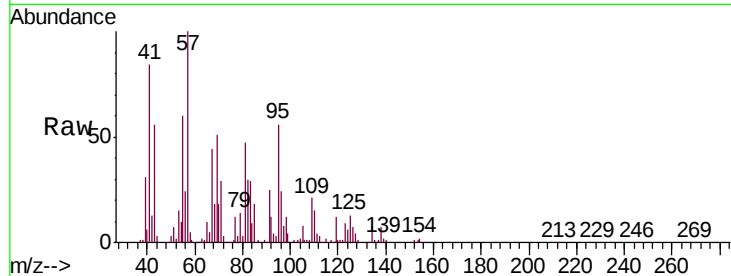




#70
n-Butylbenzene
Concen: 0.105 ppbv
RT: 18.65 min Scan# 4887
Delta R.T. -0.00 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

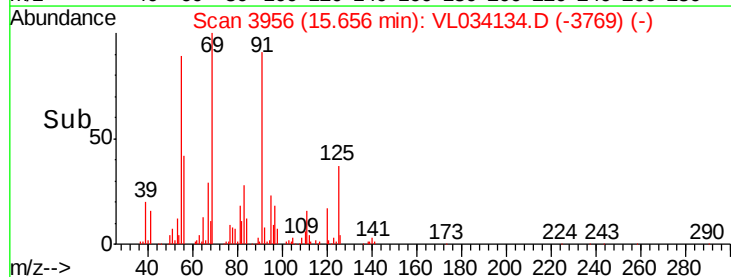
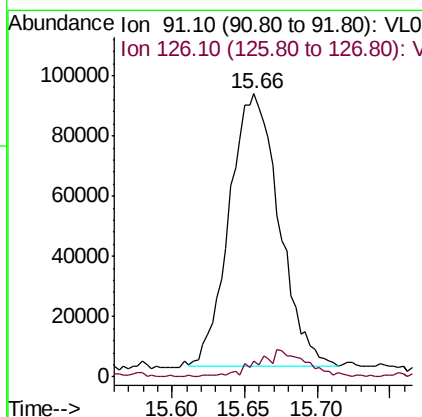
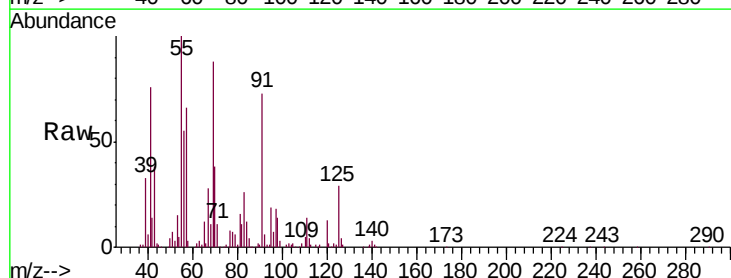
Instrument :
MSVOA_L
ClientSampled :
SOIL

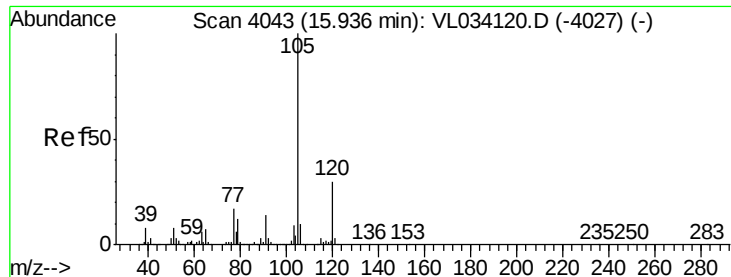
Tgt Ion: 91 Resp: 35111
Ion Ratio Lower Upper
91 100
92 106.0 45.3 67.9#
134 0.0 17.4 26.0#



#71
2-Chlorotoluene
Concen: 0.896 ppbv
RT: 15.66 min Scan# 3956
Delta R.T. 0.10 min
Lab File: VL034134.D
Acq: 5 Sep 2019 13:32

Tgt Ion: 91 Resp: 216400
Ion Ratio Lower Upper
91 100
126 10.1 11.4 45.4#





#72

4-Ethyltoluene

Concen: 1.010 ppbv

RT: 15.93 min Scan# 4042

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

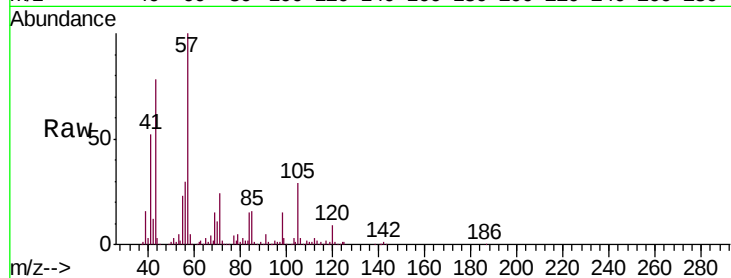
Instrument :

MSVOA_L

ClientSampleId :

SOIL

Tgt Ion:	105	Resp:	259156
Ion	Ratio	Lower	Upper
105	100		
120	28.2	23.8	35.6
91	16.1	11.4	17.0
77	16.9	12.6	18.8



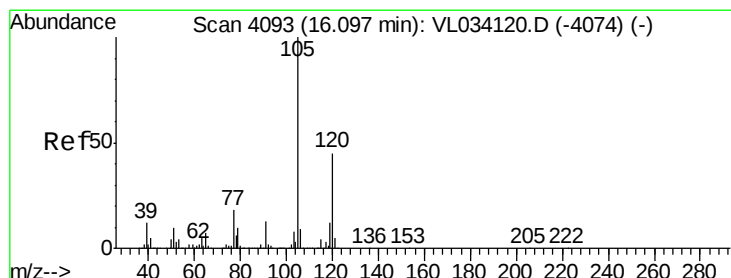
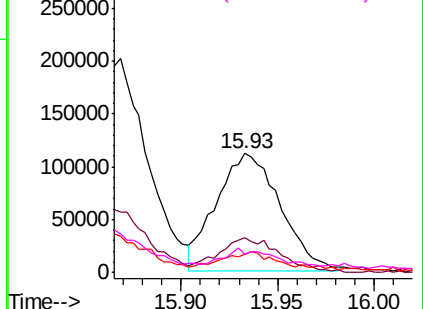
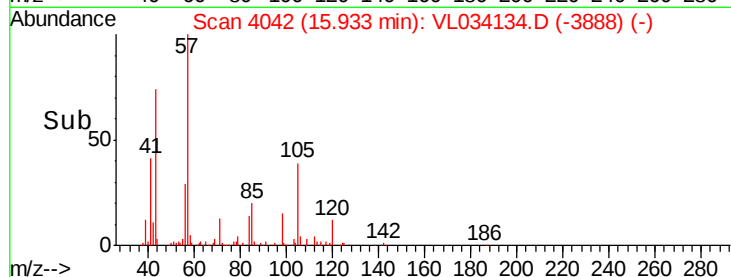
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 1.028 ppbv

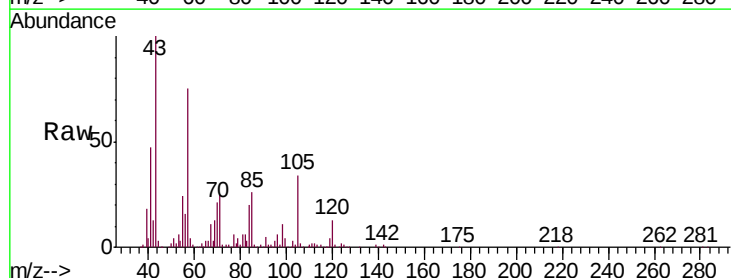
RT: 16.09 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

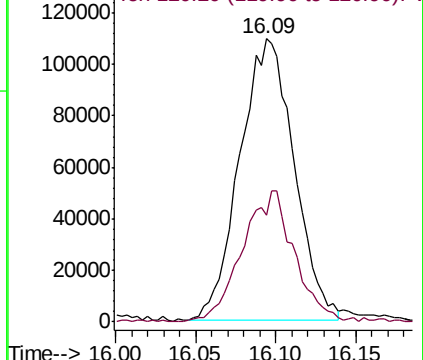
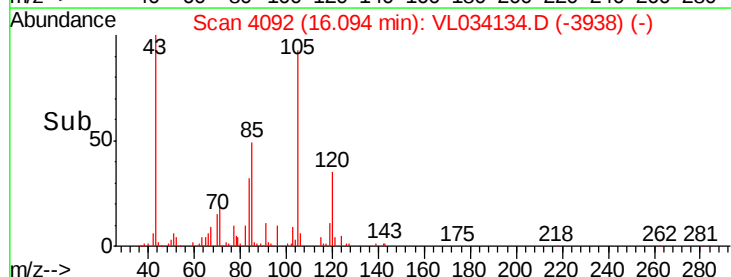
Tgt Ion:	105	Resp:	256322
Ion	Ratio	Lower	Upper
105	100		
120	37.5	35.8	53.8

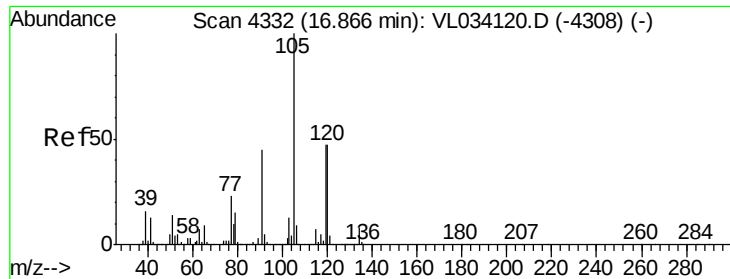


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

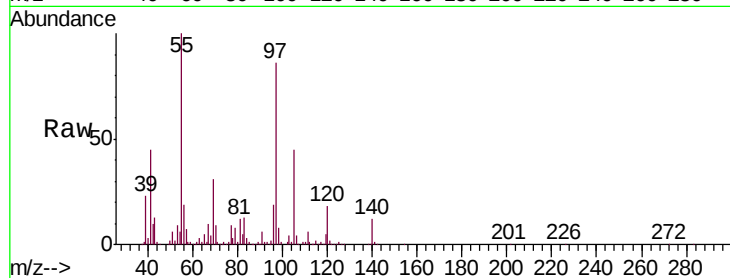




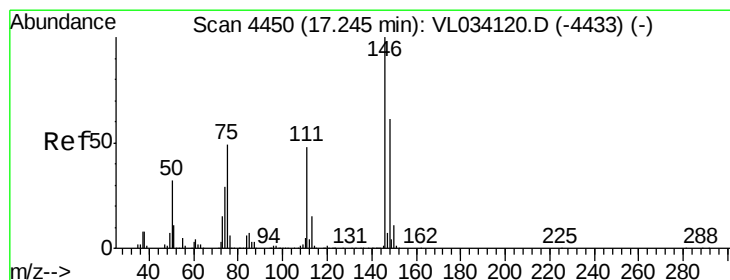
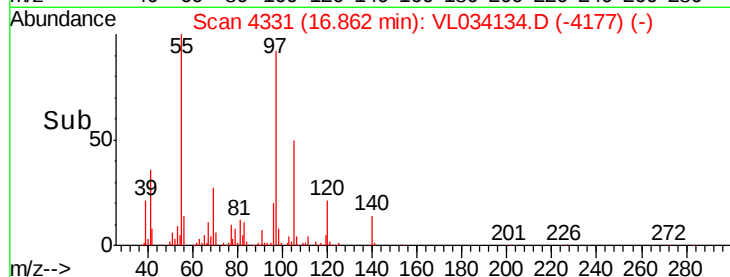
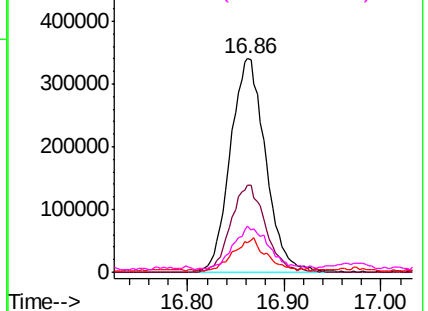
#74
 1,2,4-Trimethylbenzene
 Concen: 3.342 ppbv
 RT: 16.86 min Scan# 4331
 Delta R.T. -0.00 min
 Lab File: VL034134.D
 Acq: 5 Sep 2019 13:32

Instrument :
 MSVOA_L
 ClientSampled :
 SOIL

Tgt Ion:	105	Resp:	857842
Ion	Ratio	Lower	Upper
105	100		
120	40.9	37.7	56.5
91	12.9	36.2	54.2#
77	18.8	18.5	27.7

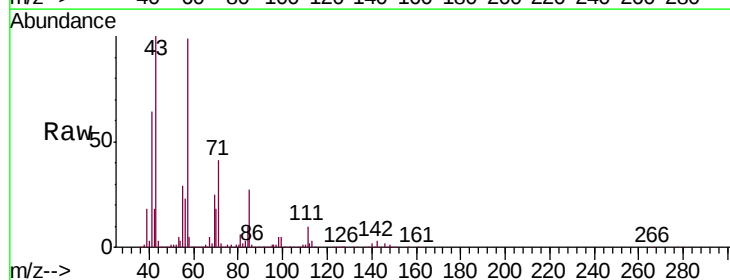


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

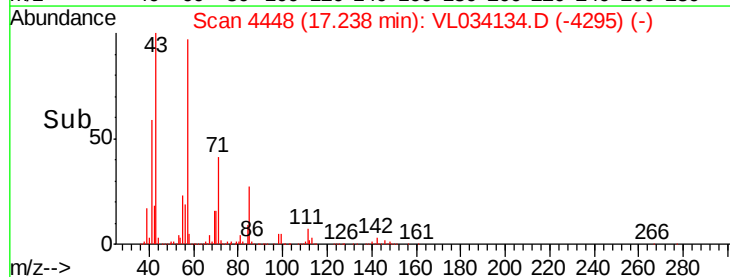
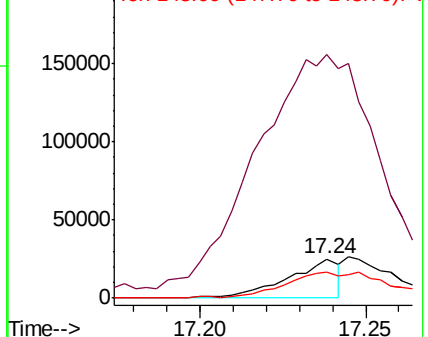


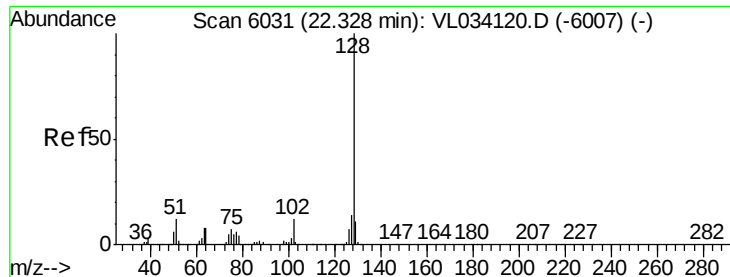
#76
 1,4-Dichlorobenzene
 Concen: 0.190 ppbv
 RT: 17.24 min Scan# 4448
 Delta R.T. -0.01 min
 Lab File: VL034134.D
 Acq: 5 Sep 2019 13:32

Tgt Ion:	146	Resp:	27057
Ion	Ratio	Lower	Upper
146	100		
111	1414.7	24.3	72.8#
148	0.0	32.6	98.0#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.062 ppbv

RT: 22.33 min Scan# 6031

Delta R.T. -0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

Instrument :

MSVOA_L

ClientSampled :

SOIL

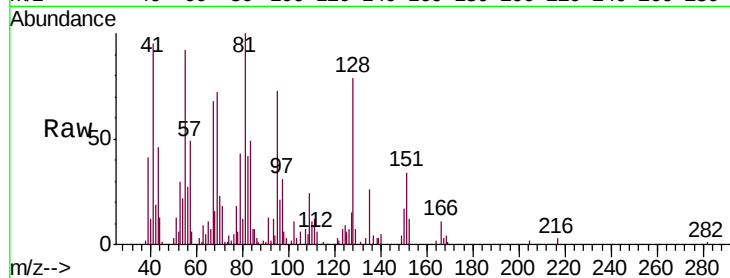
Tgt Ion:128 Resp: 14457

Ion Ratio Lower Upper

128 100

127 24.5 10.9 16.3#

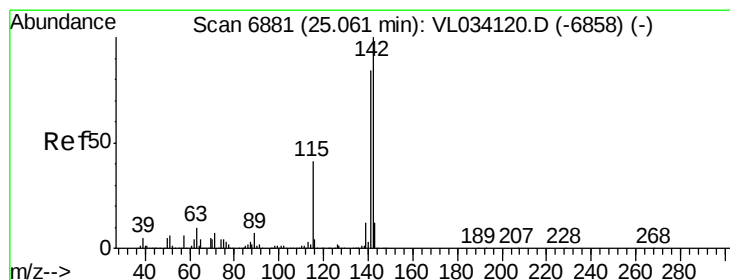
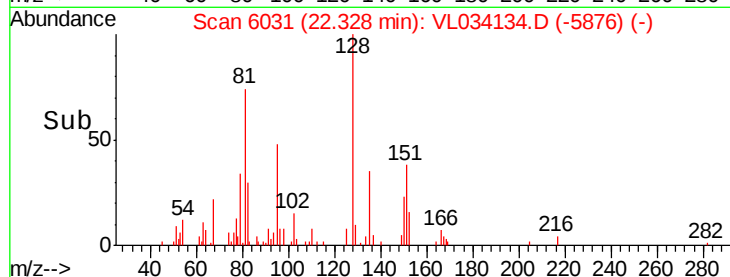
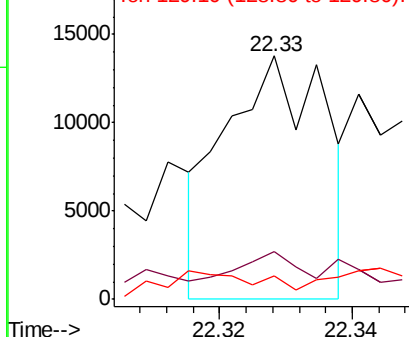
129 0.8 8.5 12.7#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.160 ppbv

RT: 25.06 min Scan# 6882

Delta R.T. 0.00 min

Lab File: VL034134.D

Acq: 5 Sep 2019 13:32

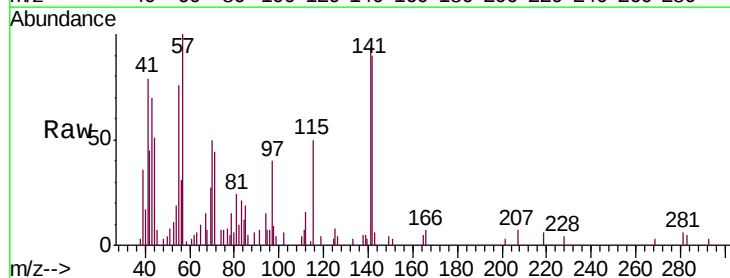
Tgt Ion:142 Resp: 12883

Ion Ratio Lower Upper

142 100

141 70.7 67.6 101.4

115 51.1 34.6 52.0



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

