

Data File : VL032901.D
Acq On : 5 Dec 2018 7:13
Operator : SY/AP
Sample : J6177-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUPDL

Quant Time: Dec 05 08:29:20 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1474587	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3569692	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3674061	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2646337 9.63 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 96.30%

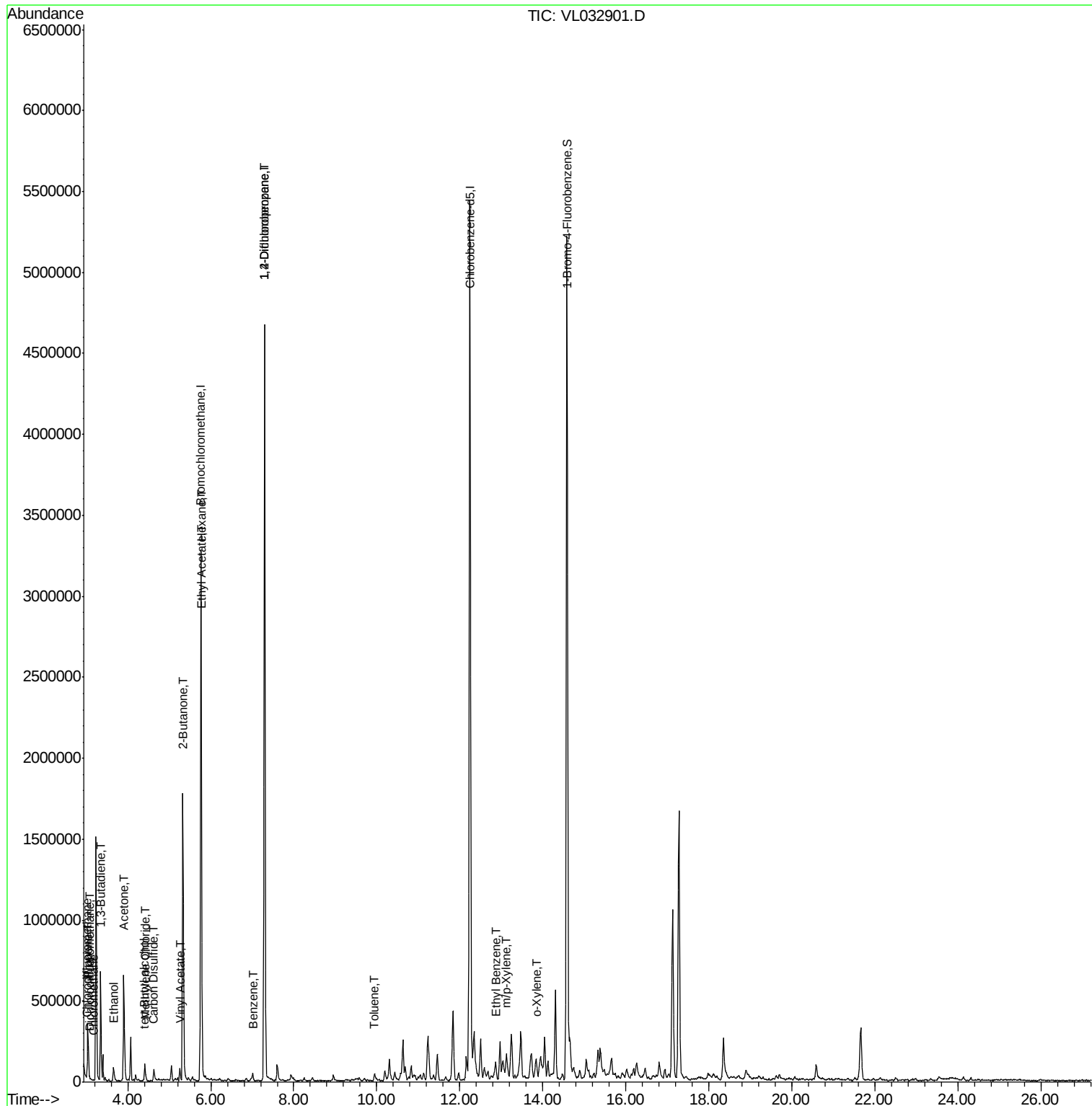
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10607	0.050	ppbv	93
3) Chlorodifluoromethane	3.02	51	8196	0.070	ppbv	93
4) Chloromethane	3.17	50	3025	0.047	ppbv	94
9) Propene	3.04	41	135332	2.893	ppbv	94
13) Ethanol	3.66	45	43373	2.830	ppbv #	29
15) Acetone	3.91	43	626533	4.653	ppbv #	73
16) 1,3-Butadiene	3.35	39	157201	3.014	ppbv #	13
17) tert-Butyl alcohol	4.39	59	3345	0.079	ppbv #	73
20) Methylene Chloride	4.41	84	33563	0.481	ppbv	96
23) Vinyl Acetate	5.26	43	22941	0.093	ppbv #	15
25) Ethyl Acetate	5.78	43	53946	0.172	ppbv #	85
26) Hexane	5.78	57	34126	0.244	ppbv #	1
27) Carbon Disulfide	4.62	76	54310	0.307	ppbv #	55
34) 2-Butanone	5.33	43	2080557	11.237	ppbv	100
36) Benzene	7.01	78	14408	0.051	ppbv	96
39) 1,2-Dichloropropane	7.30	63	831027	7.673	ppbv #	22
53) Toluene	9.95	91	15869	0.054	ppbv #	36
58) Ethyl Benzene	12.87	91	38413	0.087	ppbv	100
59) m/p-Xylene	13.12	91	77521	0.197	ppbv #	61
60) o-Xylene	13.86	91	25053	0.063	ppbv #	53

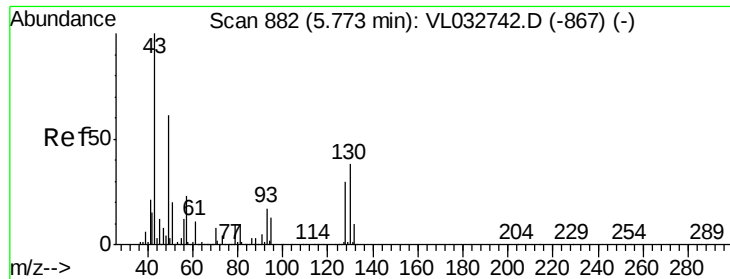
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

VIELE-DUPDL

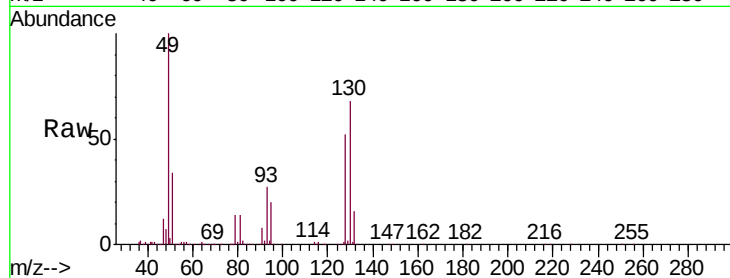
Tgt Ion: 49 Resp: 1474587

Ion Ratio Lower Upper

49 100

128 52.0 24.9 74.6

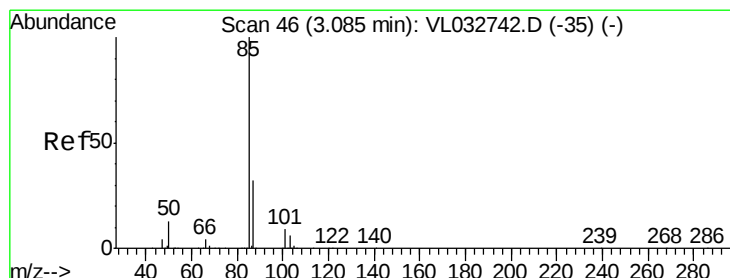
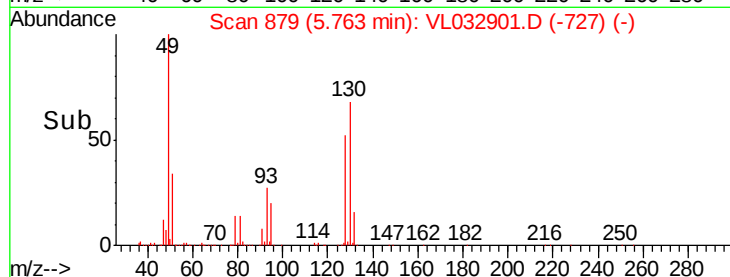
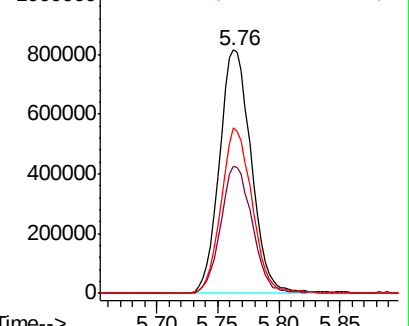
130 66.7 31.4 94.2



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: 0.050 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032901.D

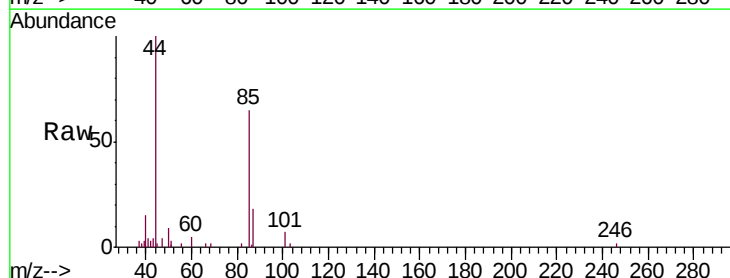
Acq: 5 Dec 2018 7:13

Tgt Ion: 85 Resp: 10607

Ion Ratio Lower Upper

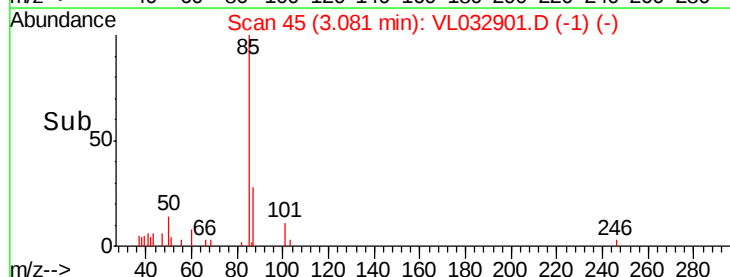
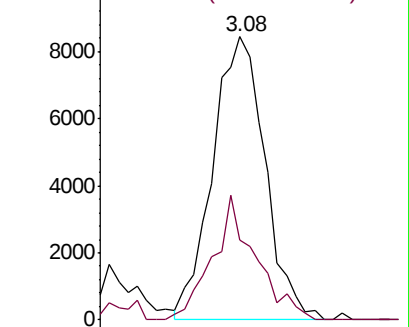
85 100

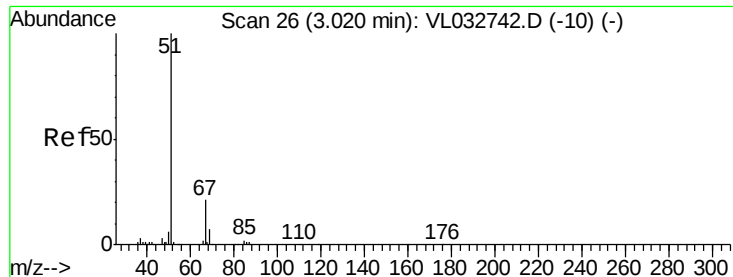
87 28.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

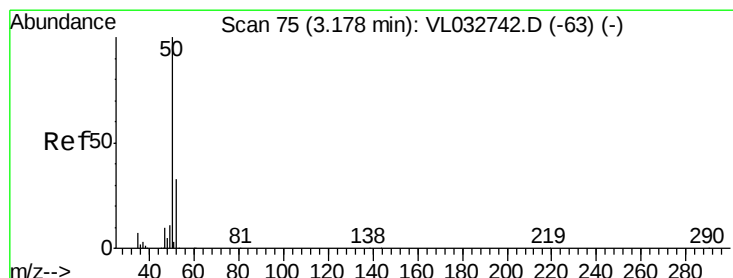
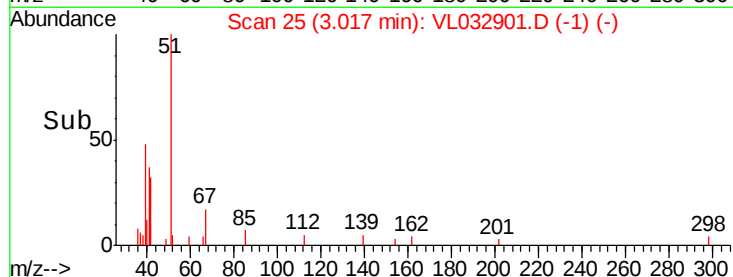
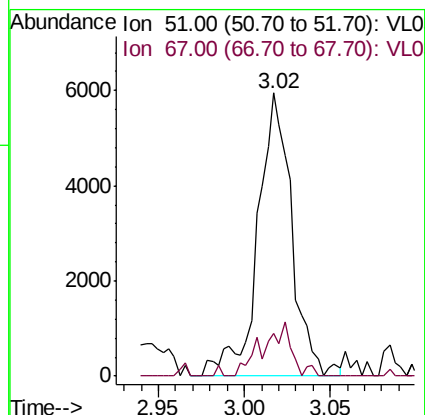
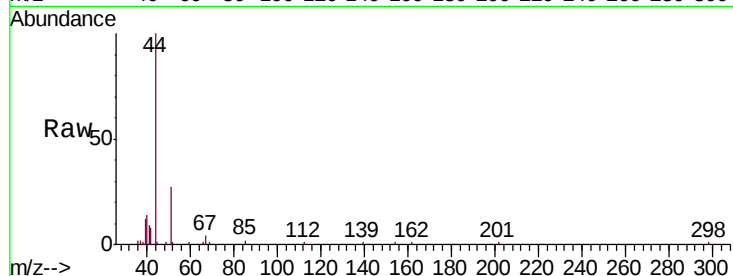




#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032901.D
Acq: 5 Dec 2018 7:13

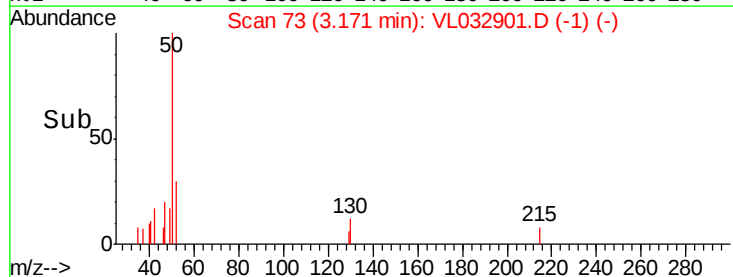
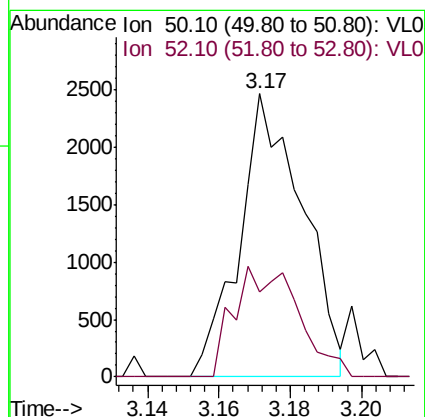
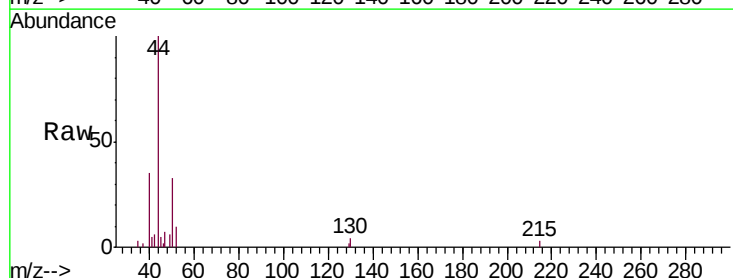
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUPDL

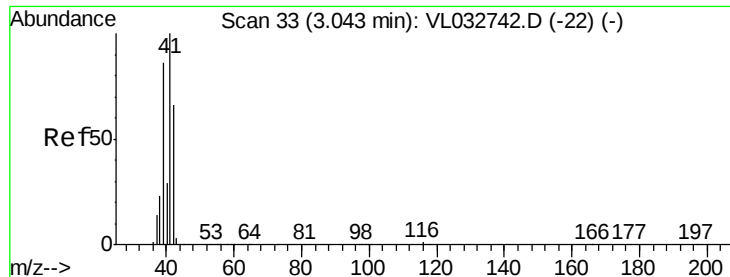
Tgt Ion: 51 Resp: 8196
Ion Ratio Lower Upper
51 100
67 16.9 16.1 24.1



#4
Chloromethane
Concen: 0.047 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.01 min
Lab File: VL032901.D
Acq: 5 Dec 2018 7:13

Tgt Ion: 50 Resp: 3025
Ion Ratio Lower Upper
50 100
52 30.1 26.6 40.0





#9

Propene

Concen: 2.893 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

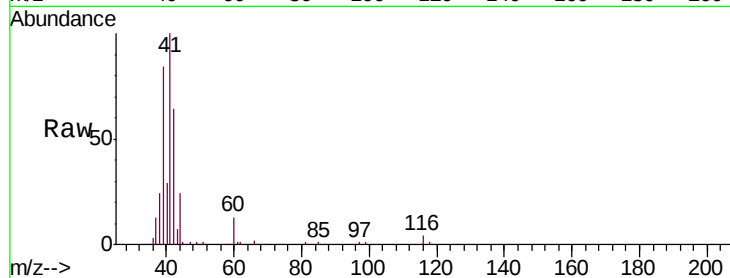
VIELE-DUPDL

Tgt Ion: 41 Resp: 135332

Ion Ratio Lower Upper

41 100

42 64.2 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

100000

80000

60000

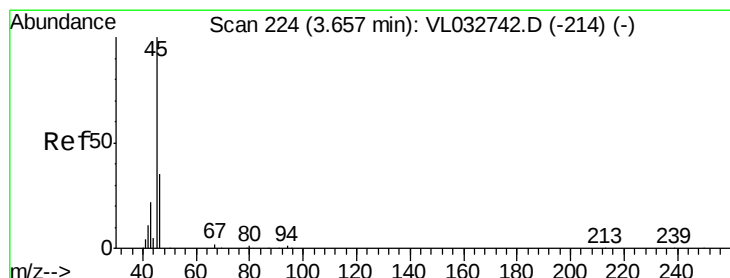
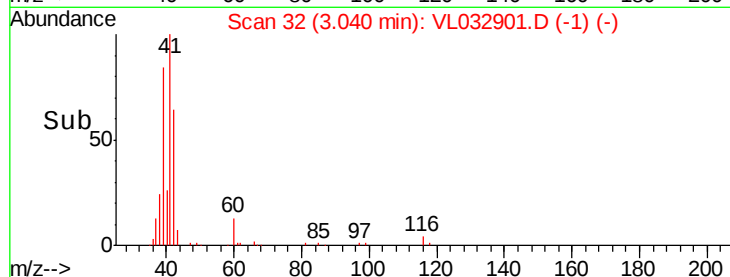
40000

20000

0

Time-->

3.00 3.05 3.10



#13

Ethanol

Concen: 2.830 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032901.D

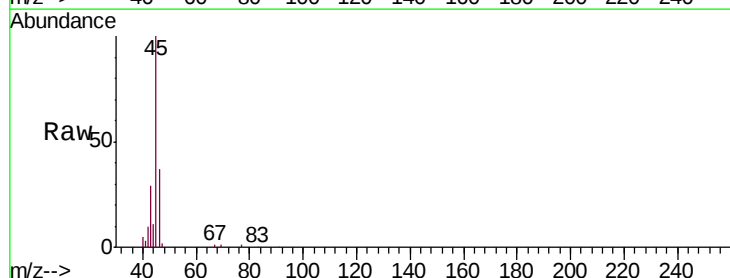
Acq: 5 Dec 2018 7:13

Tgt Ion: 45 Resp: 43373

Ion Ratio Lower Upper

45 100

46 78.1 14.5 57.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.66

50000

40000

30000

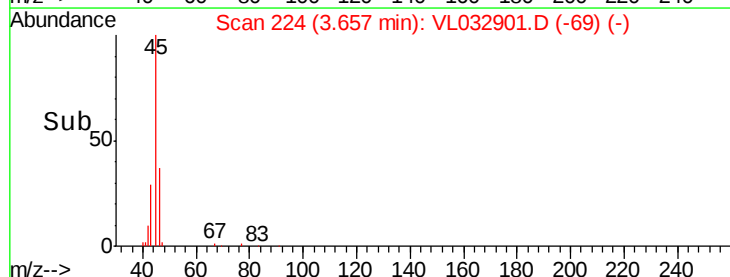
20000

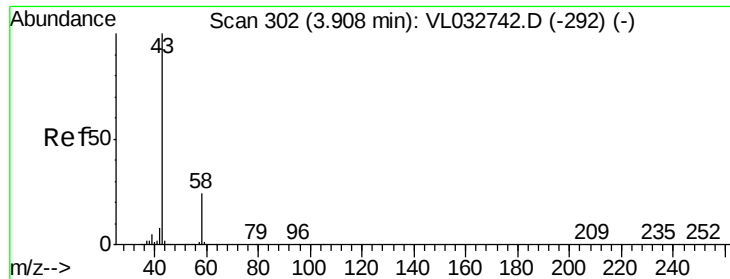
10000

0

Time-->

3.62 3.64 3.66





#15

Acetone

Concen: 4.653 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

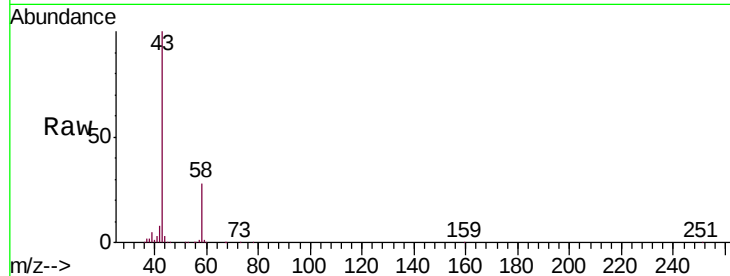
VIELE-DUPDL

Tgt Ion: 43 Resp: 626533

Ion Ratio Lower Upper

43 100

58 40.4 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

400000

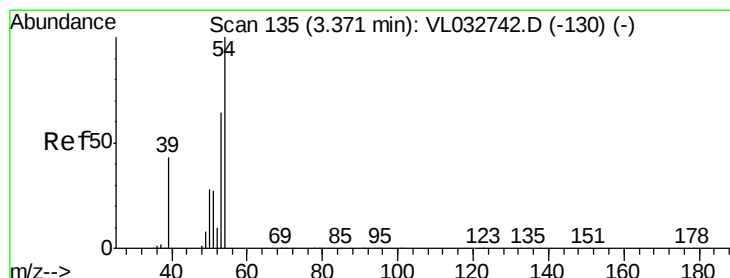
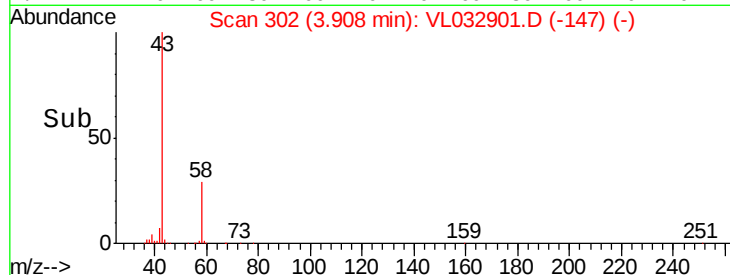
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 3.014 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032901.D

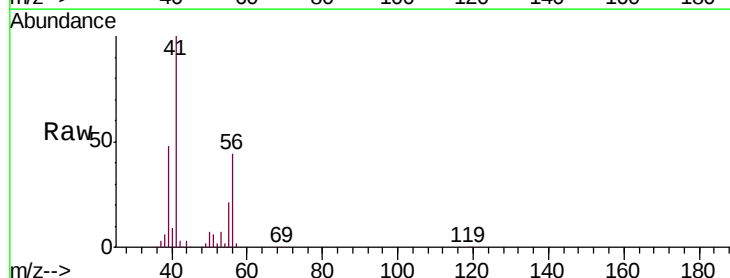
Acq: 5 Dec 2018 7:13

Tgt Ion: 39 Resp: 157201

Ion Ratio Lower Upper

39 100

54 6.2 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

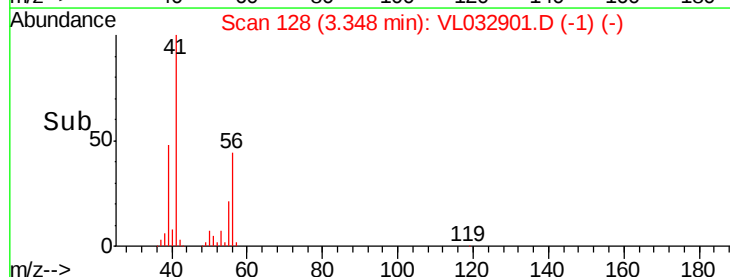
3.35

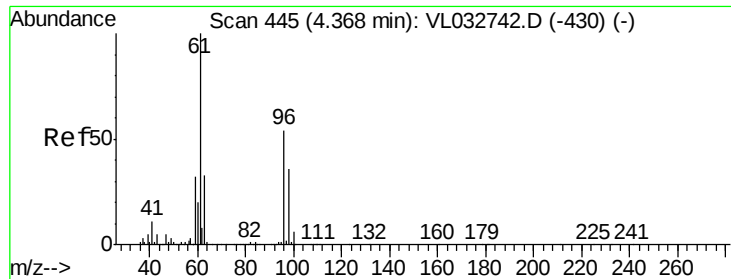
100000

50000

0

Time-->



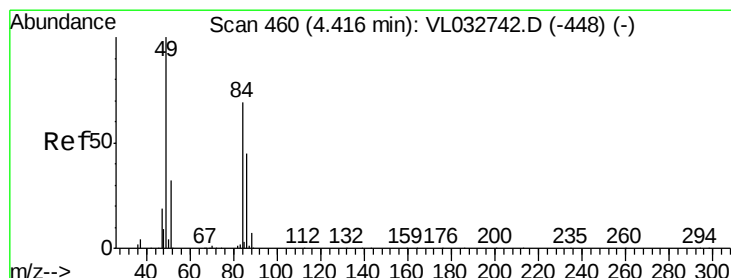
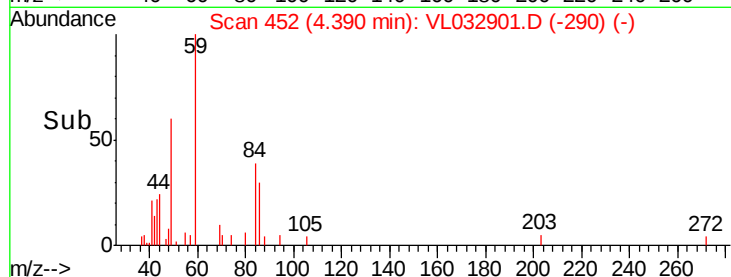
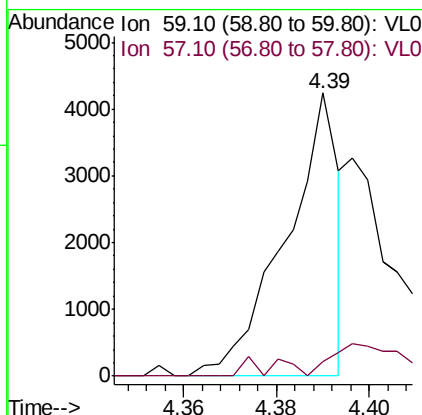
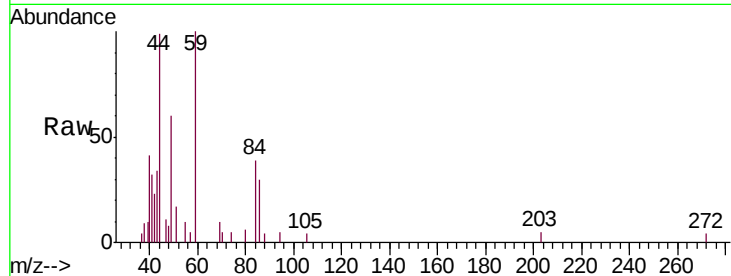


#17

tert-Butyl alcohol
 Concen: 0.079 ppbv
 RT: 4.39 min Scan# 452
 Delta R.T. 0.02 min
 Lab File: VL032901.D
 Acq: 5 Dec 2018 7:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VIELE-DUPDL

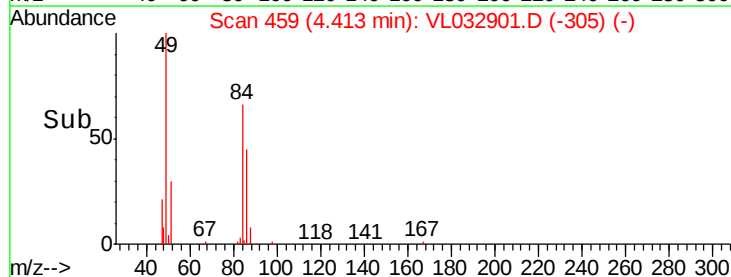
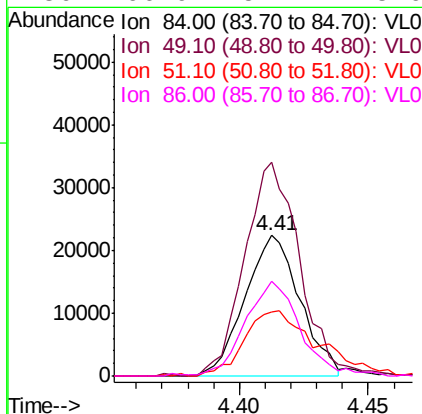
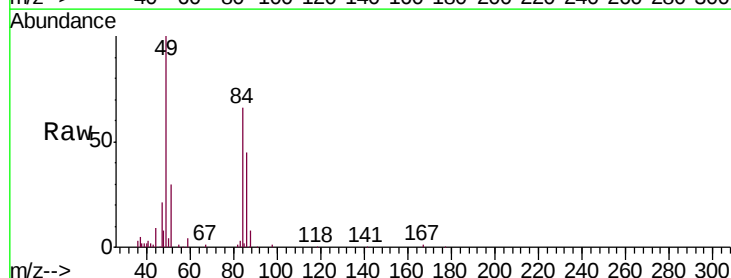
Tgt Ion: 59 Resp: 3345
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

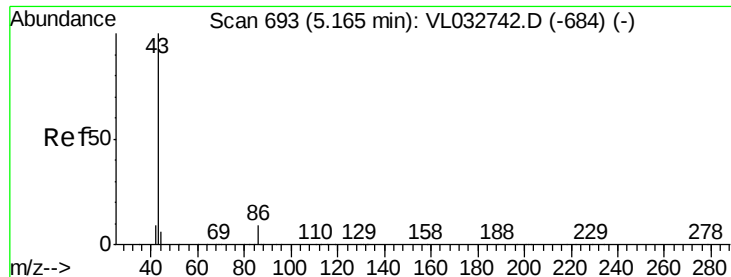


#20

Methylene Chloride
 Concen: 0.481 ppbv
 RT: 4.41 min Scan# 459
 Delta R.T. -0.00 min
 Lab File: VL032901.D
 Acq: 5 Dec 2018 7:13

Tgt Ion: 84 Resp: 33563
 Ion Ratio Lower Upper
 84 100
 49 151.9 115.8 173.6
 51 45.9 36.9 55.3
 86 66.9 52.4 78.6





#23

Vinyl Acetate

Concen: 0.093 ppbv

RT: 5.26 min Scan# 722

Delta R.T. 0.09 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

VIELE-DUPDL

Tgt Ion: 43 Resp: 22941

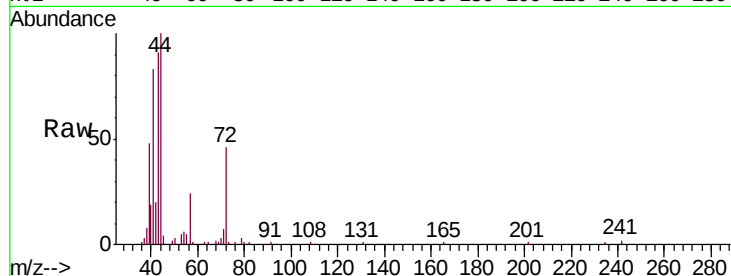
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#

42 22.9 7.8 11.6#

44 92.5 4.4 6.6#

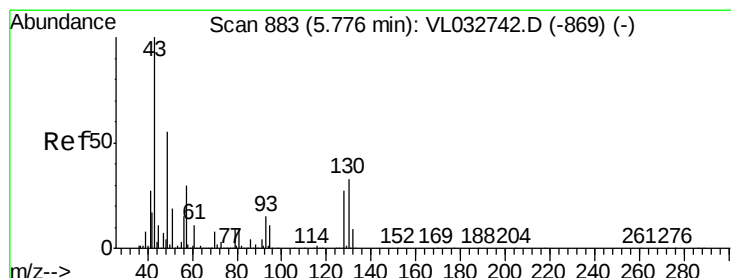
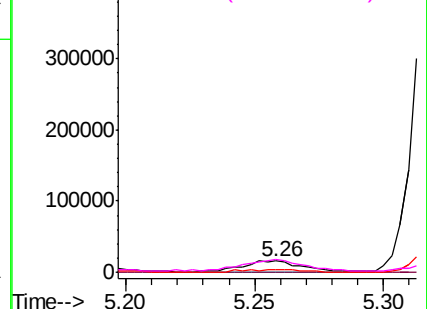
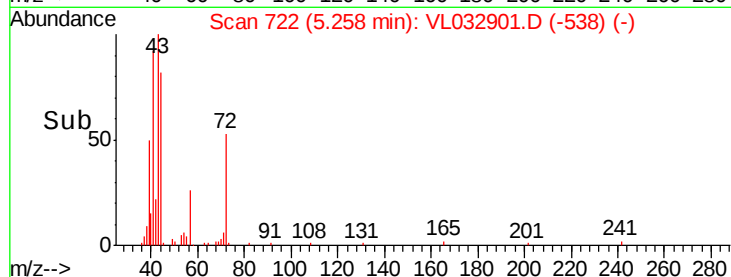


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.172 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Tgt Ion: 43 Resp: 53946

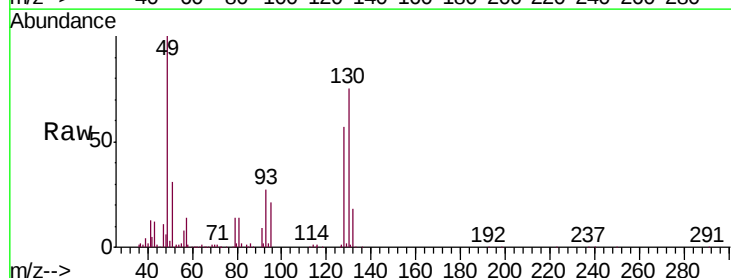
Ion Ratio Lower Upper

43 100

45 4.9 7.9 11.9#

61 1.4 7.8 11.6#

70 4.3 5.8 8.6#

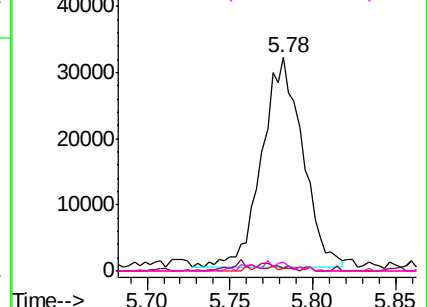
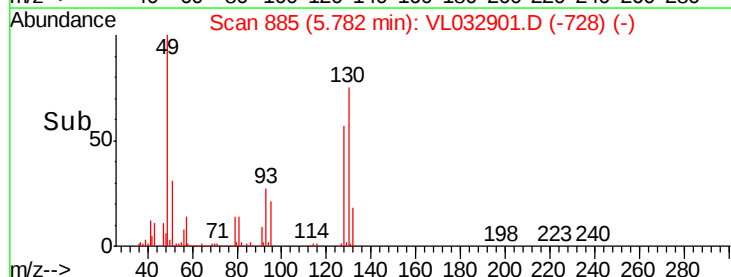


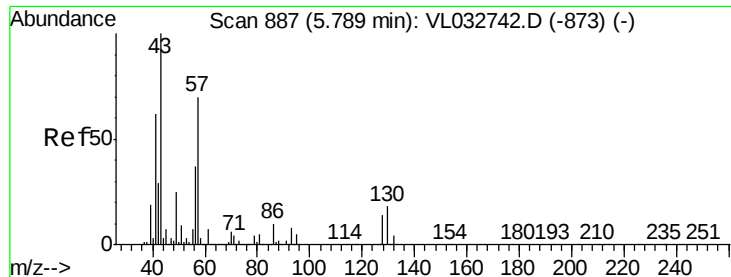
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

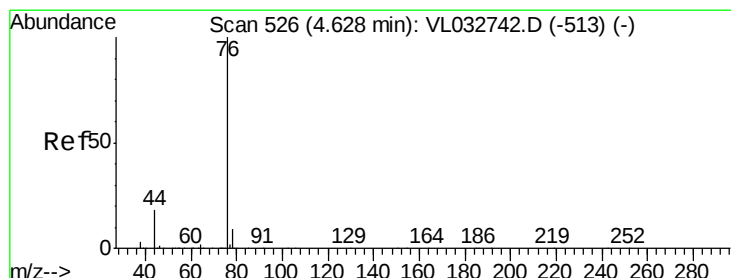
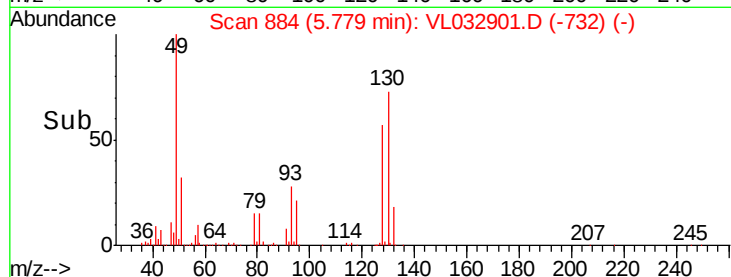
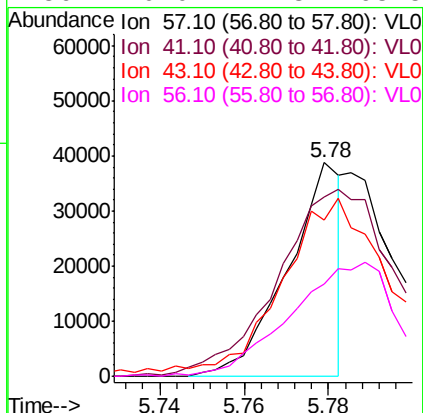
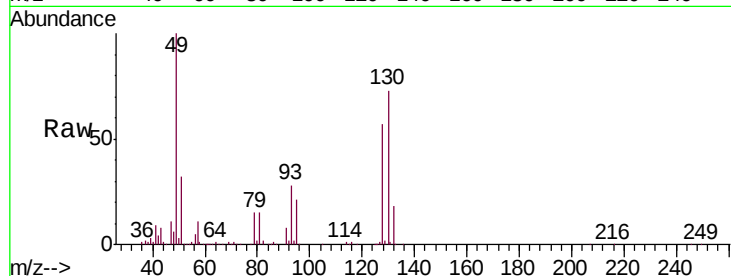




#26
Hexane
Concen: 0.244 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032901.D
Acq: 5 Dec 2018 7:13

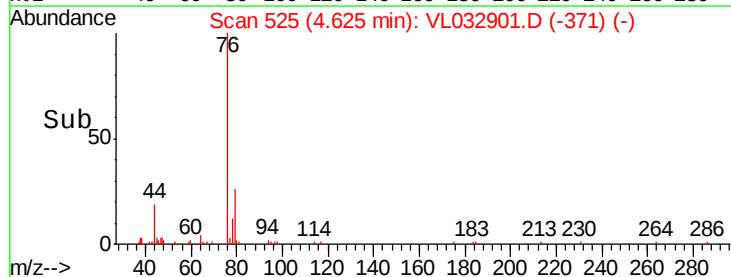
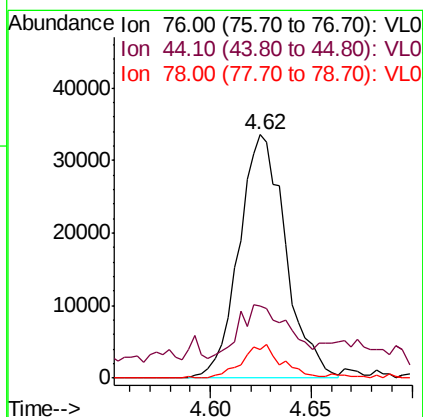
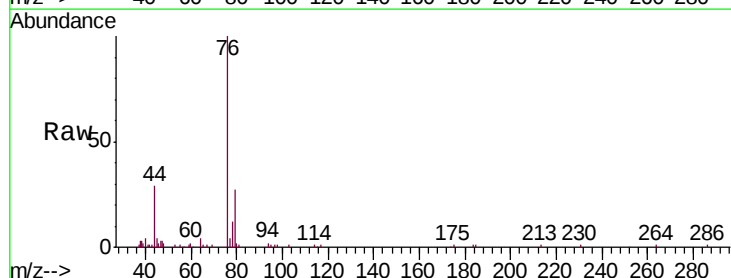
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUPDL

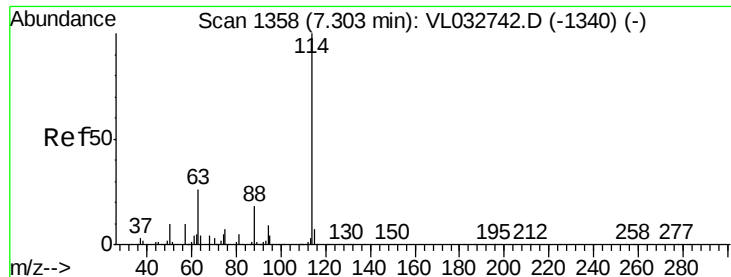
Tgt Ion: 57 Resp: 34126
Ion Ratio Lower Upper
57 100
41 0.0 70.3 105.5#
43 0.0 174.0 261.0#
56 0.0 42.3 63.5#



#27
Carbon Disulfide
Concen: 0.307 ppbv
RT: 4.62 min Scan# 525
Delta R.T. -0.00 min
Lab File: VL032901.D
Acq: 5 Dec 2018 7:13

Tgt Ion: 76 Resp: 54310
Ion Ratio Lower Upper
76 100
44 46.5 14.4 21.6#
78 12.5 7.7 11.5#

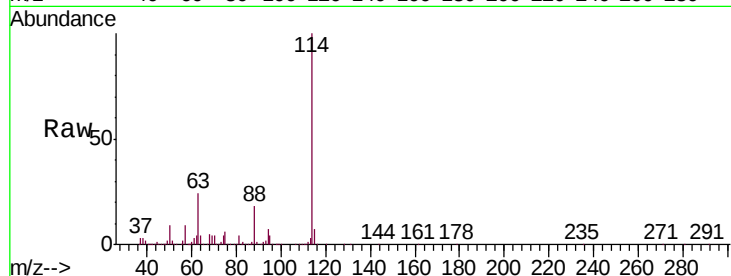




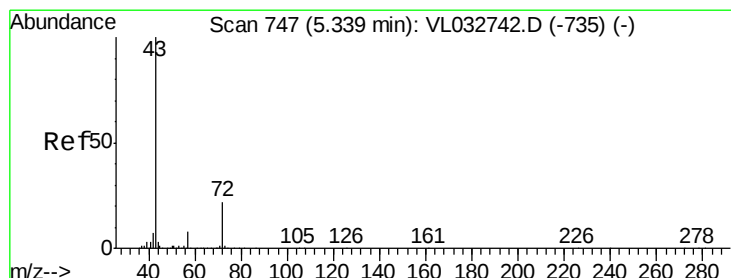
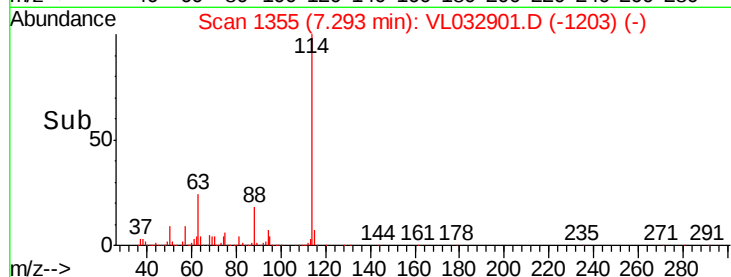
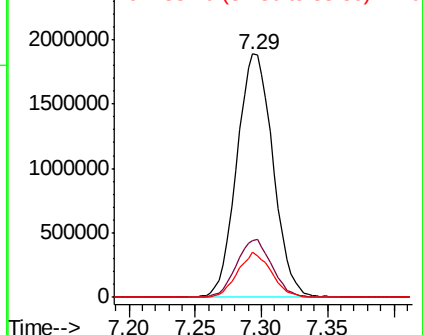
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032901.D
 Acq: 5 Dec 2018 7:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VIELE-DUPDL

Tgt Ion: 114 Resp: 3569692
 Ion Ratio Lower Upper
 114 100
 63 23.4 20.9 31.3
 88 17.4 14.4 21.6

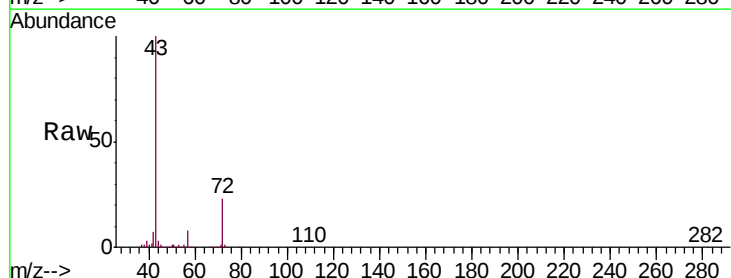


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

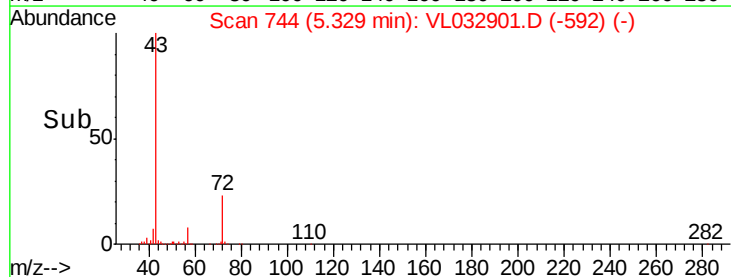
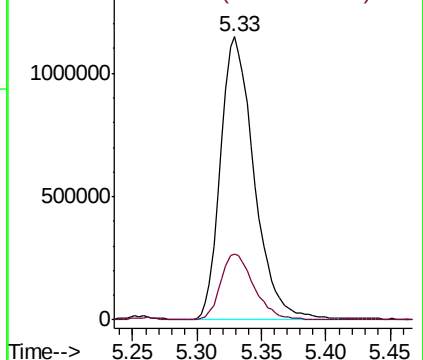


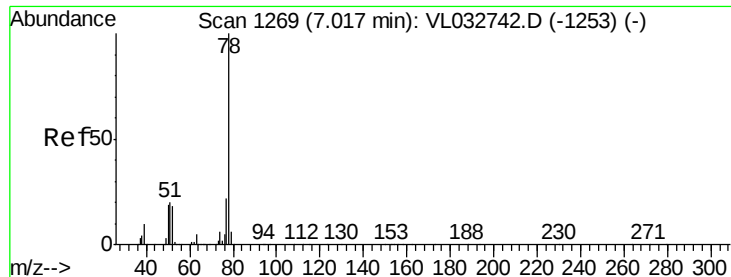
#34
 2-Butanone
 Concen: 11.237 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: VL032901.D
 Acq: 5 Dec 2018 7:13

Tgt Ion: 43 Resp: 2080557
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.4 27.6



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





#36

Benzene

Concen: 0.051 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

VIELE-DUPDL

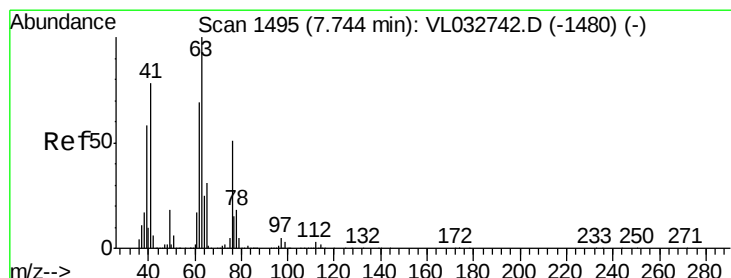
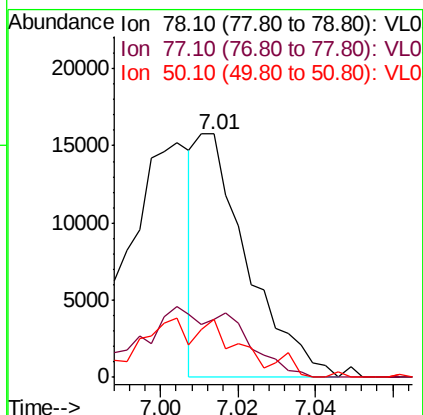
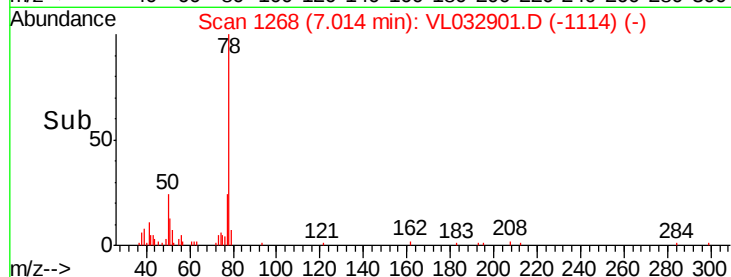
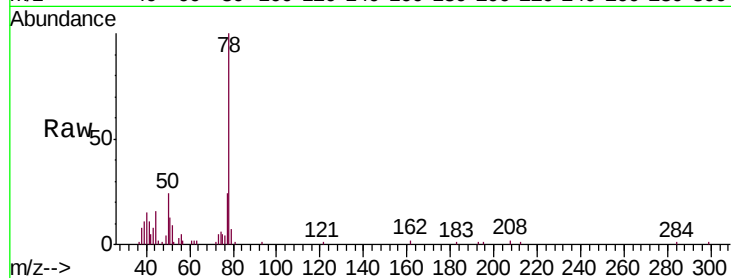
Tgt Ion: 78 Resp: 14408

Ion Ratio Lower Upper

78 100

77 24.2 17.8 26.8

50 21.4 15.4 23.0



#39

1,2-Dichloropropane

Concen: 7.673 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

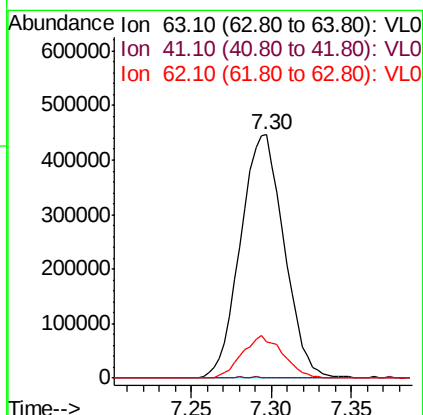
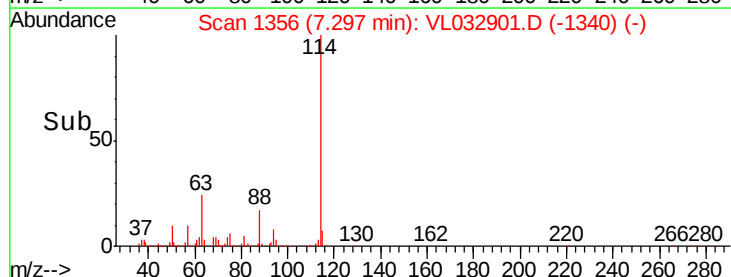
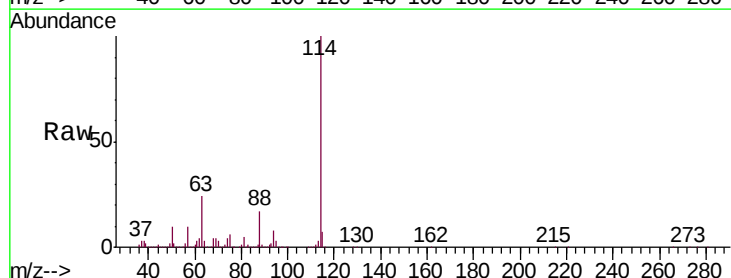
Tgt Ion: 63 Resp: 831027

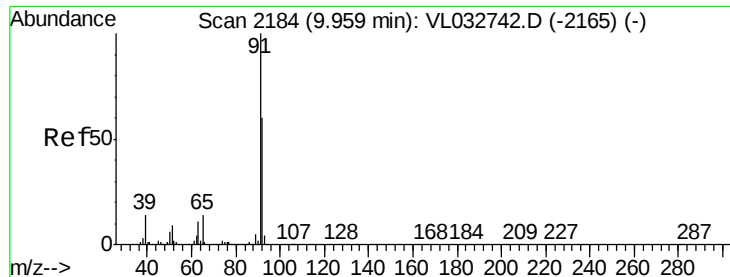
Ion Ratio Lower Upper

63 100

41 0.2 62.0 93.0#

62 15.0 55.4 83.2#





#53

Toluene

Concen: 0.054 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

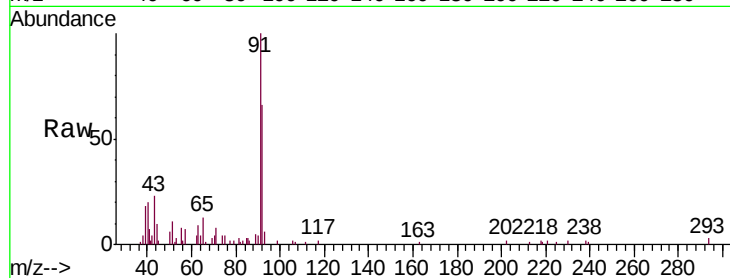
VIELE-DUPDL

Tgt Ion: 91 Resp: 15869

Ion Ratio Lower Upper

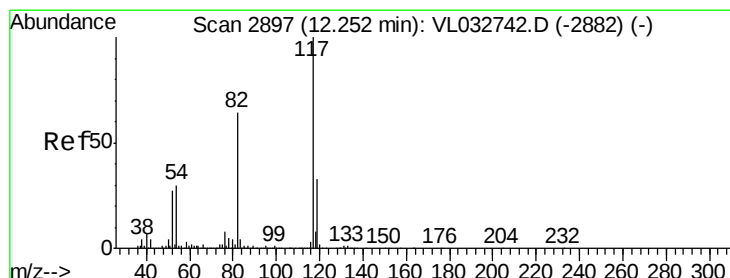
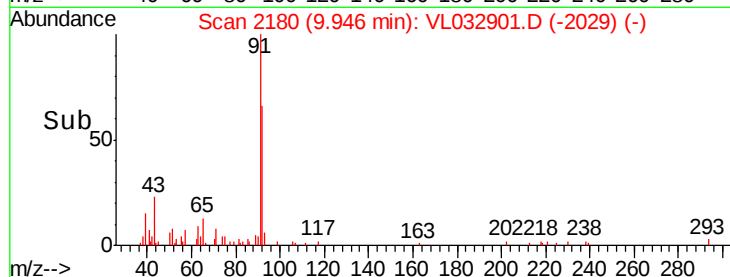
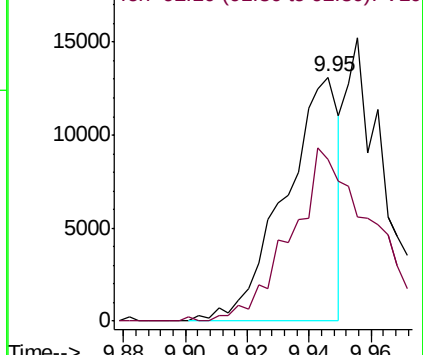
91 100

92 108.0 47.9 71.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

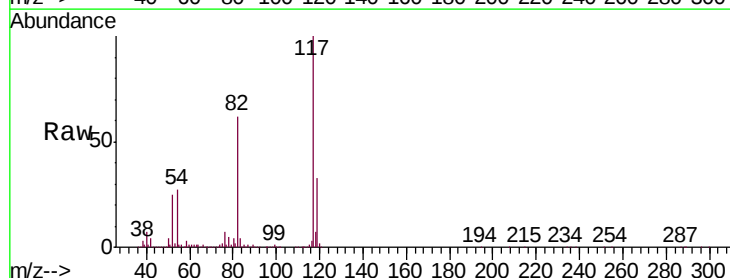
Tgt Ion: 117 Resp: 3674061

Ion Ratio Lower Upper

117 100

82 61.4 51.0 76.6

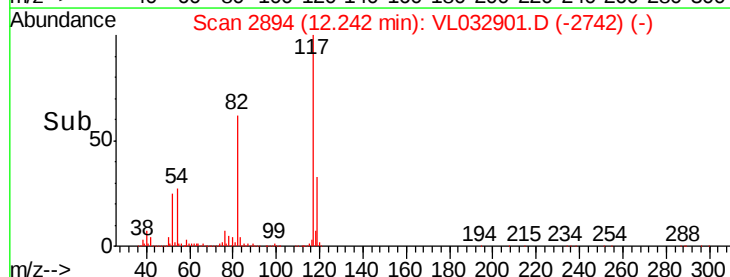
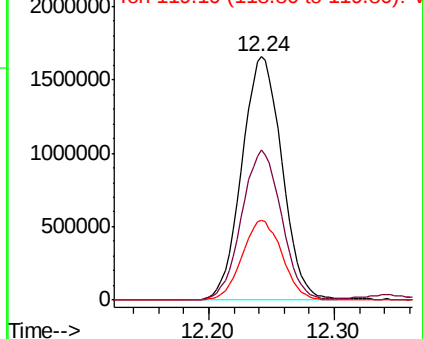
119 32.7 28.0 42.0

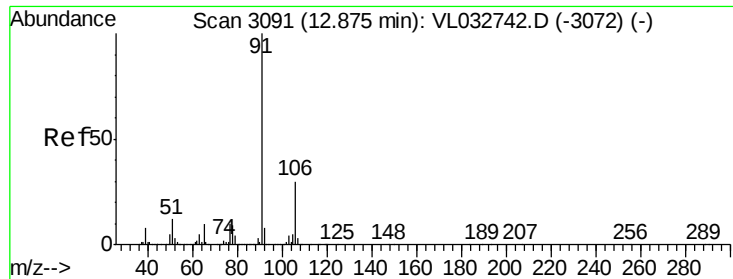


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.087 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032901.D

Acq: 5 Dec 2018 7:13

Instrument :

MSVOA_L

ClientSampleId :

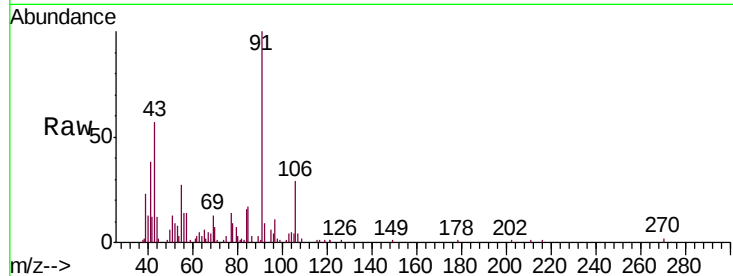
VIELE-DUPDL

Tgt Ion: 91 Resp: 38413

Ion Ratio Lower Upper

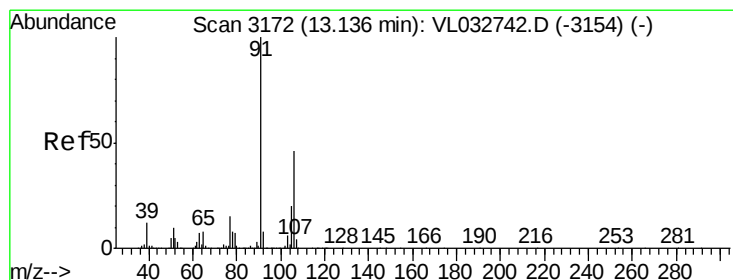
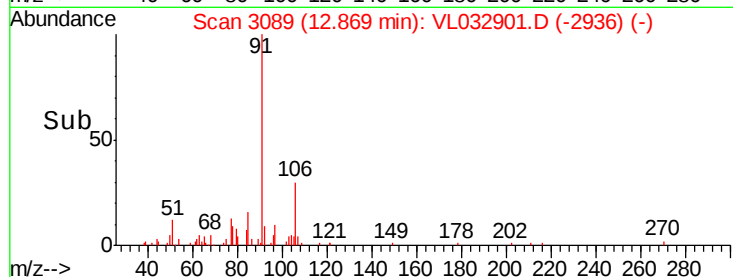
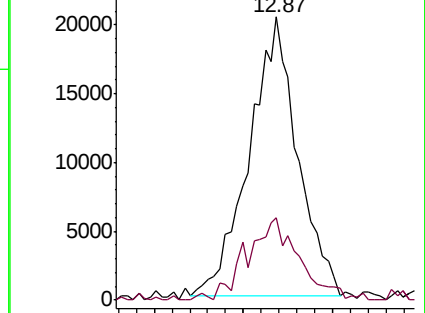
91 100

106 29.6 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.197 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL032901.D

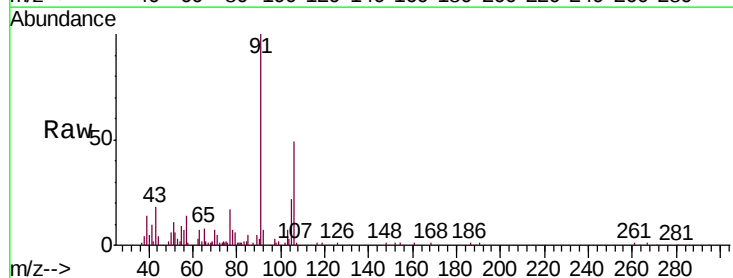
Acq: 5 Dec 2018 7:13

Tgt Ion: 91 Resp: 77521

Ion Ratio Lower Upper

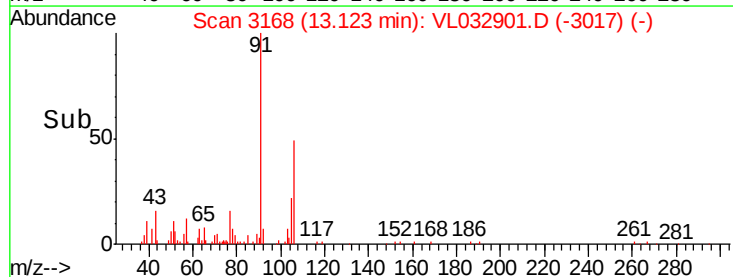
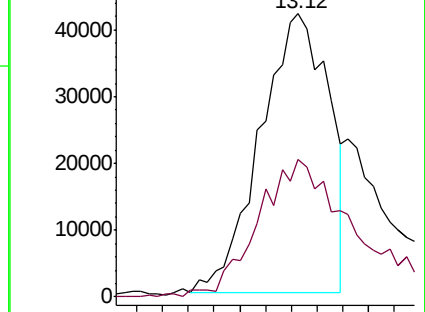
91 100

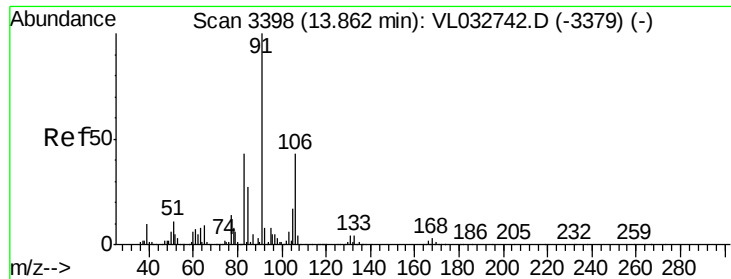
106 70.5 36.1 54.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

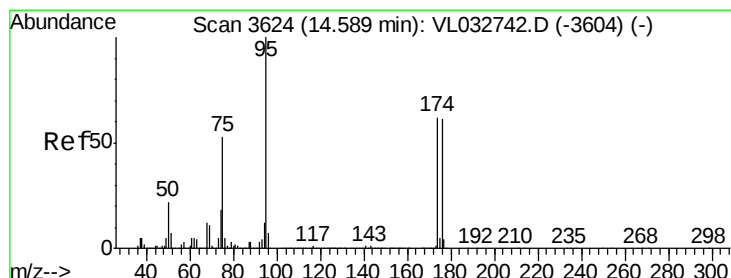
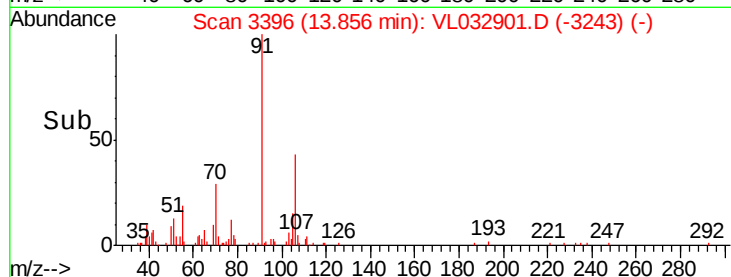
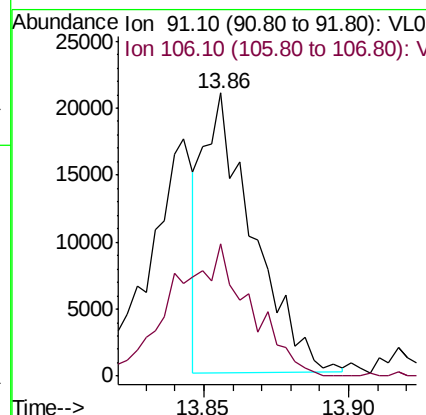
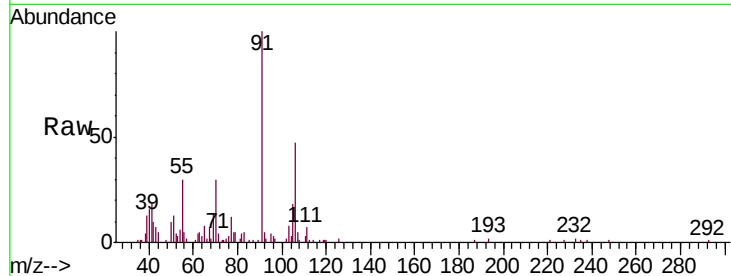




#60
o-Xylene
Concen: 0.063 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032901.D
Acq: 5 Dec 2018 7:13

Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUPDL

Tgt Ion: 91 Resp: 25053
Ion Ratio Lower Upper
91 100
106 74.4 21.9 65.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.630 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL032901.D
Acq: 5 Dec 2018 7:13

Tgt Ion: 95 Resp: 2646337
Ion Ratio Lower Upper
95 100
174 67.1 50.7 76.1
175 5.2 3.8 5.6

