

Data File : VL032861.D
Acq On : 30 Nov 2018 22:56
Operator : SY/AP
Sample : J6132-04DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

Quant Time: Dec 01 02:27:14 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	5.77	49	1597970	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4067553	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3822835	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2850437	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds

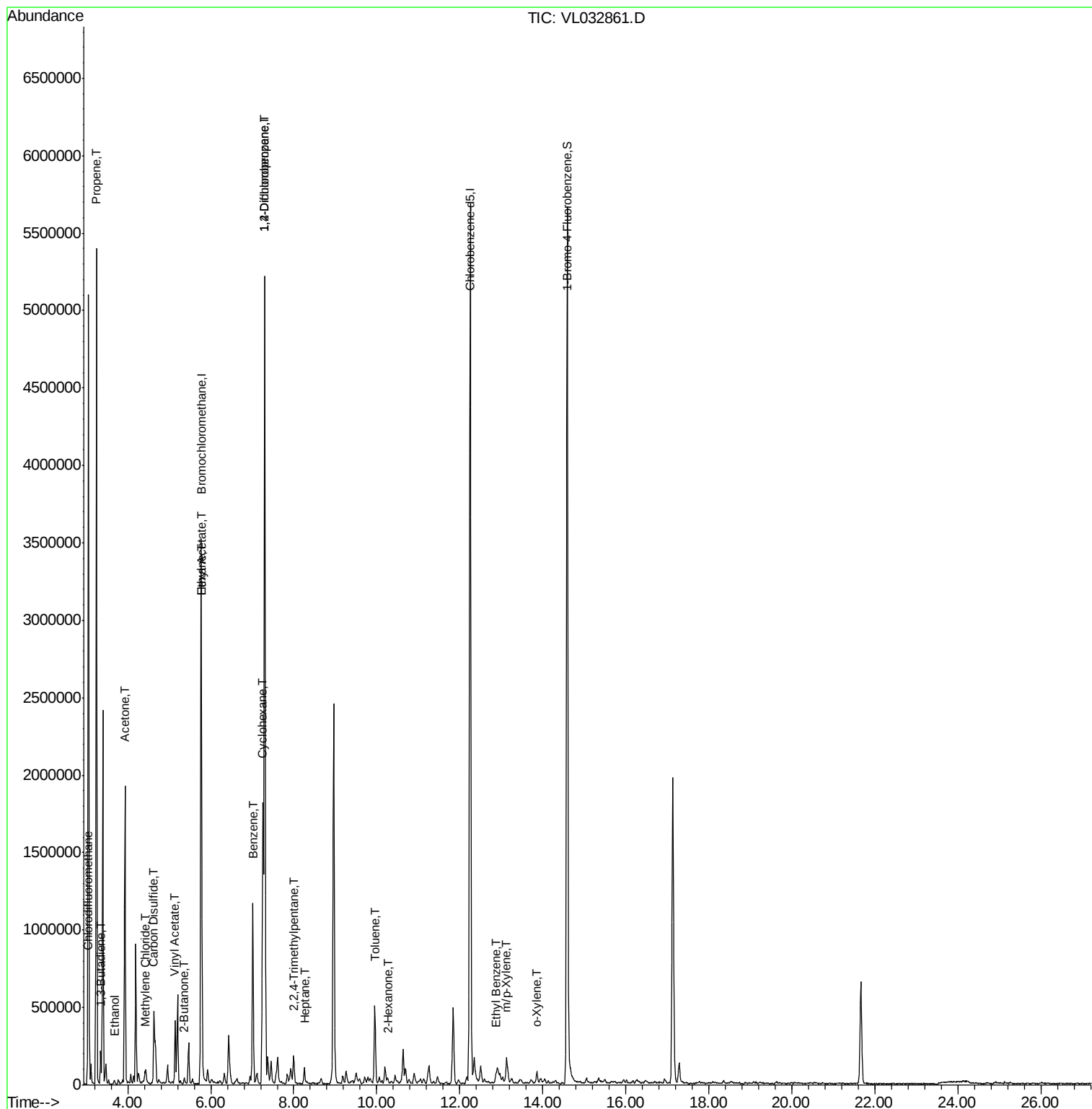
						Qvalue
3) Chlorodifluoromethane	3.02	51	3972	0.031	ppbv	97
9) Propene	3.24	41	1556261	30.696	ppbv	96
10) Heptane	8.25	43	22692	0.117	ppbv #	40
13) Ethanol	3.68	45	19629	1.182	ppbv	96
15) Acetone	3.93	43	718475	4.923	ppbv #	66
16) 1,3-Butadiene	3.35	39	62406	1.104	ppbv #	45
20) Methylene Chloride	4.41	84	22252	0.295	ppbv	90
23) Vinyl Acetate	5.15	43	158272	0.595	ppbv #	1
25) Ethyl Acetate	5.79	43	87060	0.256	ppbv #	79
26) Hexane	5.79	57	132549	0.875	ppbv #	43
27) Carbon Disulfide	4.63	76	537808	2.801	ppbv	98
30) Cyclohexane	7.25	84	647683	4.891	ppbv	97
34) 2-Butanone	5.36	43	44573	0.211	ppbv	94
36) Benzene	7.01	78	936847	2.892	ppbv	96
39) 1,2-Dichloropropane	7.30	63	933265	7.562	ppbv #	22
44) 2,2,4-Trimethylpentane	8.00	57	26718	0.049	ppbv #	1
51) 2-Hexanone	10.25	43	11116	0.052	ppbv #	32
53) Toluene	9.95	91	374833	1.109	ppbv	99
58) Ethyl Benzene	12.87	91	43378	0.094	ppbv	96
59) m/p-Xylene	13.13	91	147701	0.361	ppbv	93
60) o-Xylene	13.86	91	49868	0.121	ppbv	92

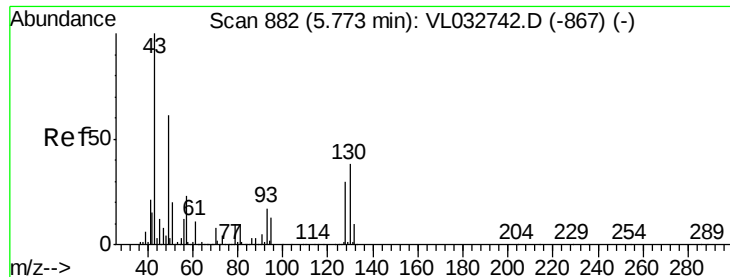
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL032861.D
Acq On : 30 Nov 2018 22:56
Operator : SY/AP
Sample : J6132-04DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

Quant Time: Dec 01 02:27:14 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL2

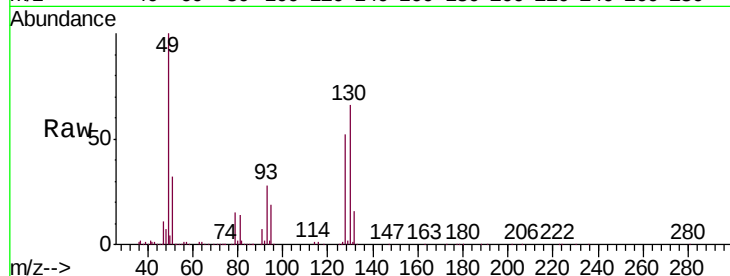
Tgt Ion: 49 Resp: 1597970

Ion Ratio Lower Upper

49 100

128 52.4 24.9 74.6

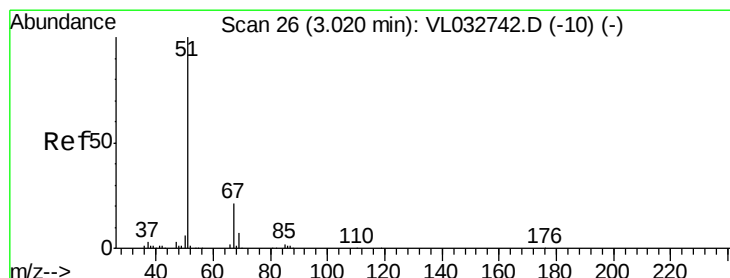
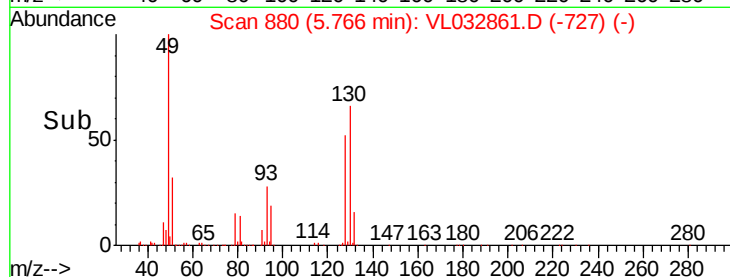
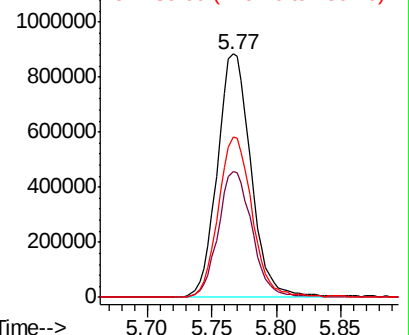
130 66.7 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.031 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032861.D

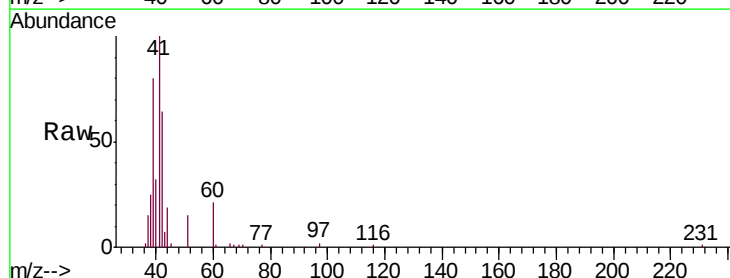
Acq: 30 Nov 2018 22:56

Tgt Ion: 51 Resp: 3972

Ion Ratio Lower Upper

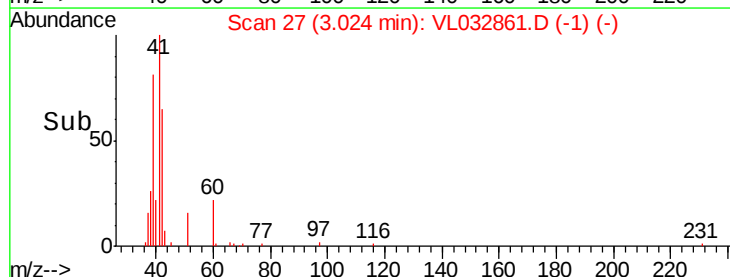
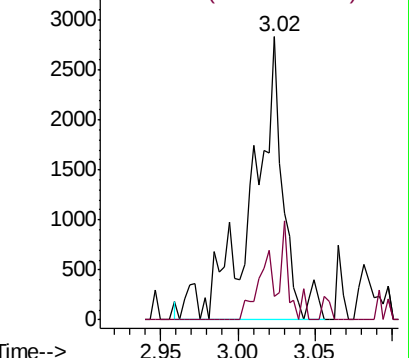
51 100

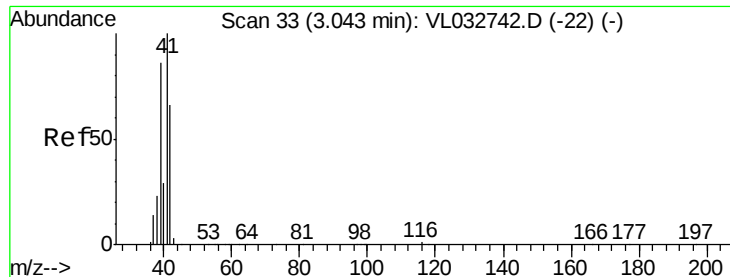
67 21.3 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 30.696 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

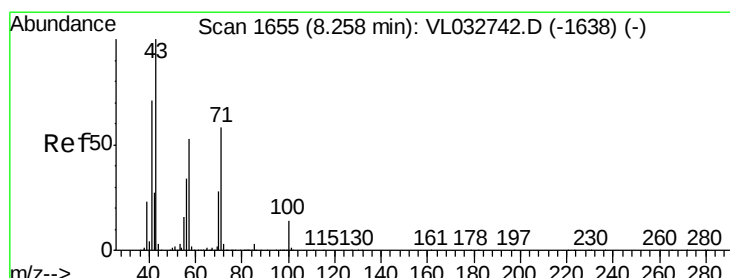
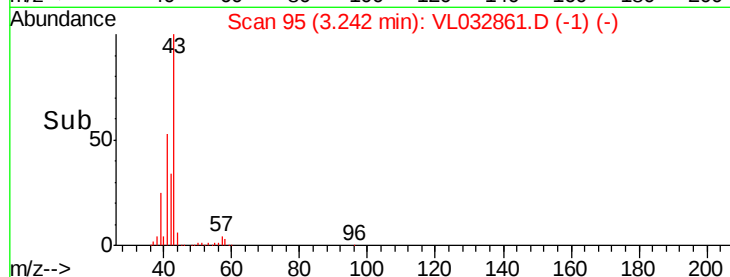
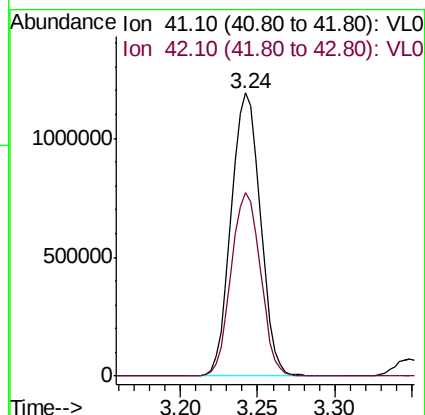
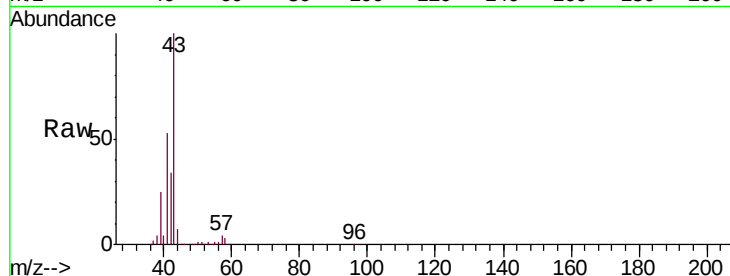
DSV-03DL2

Tgt Ion: 41 Resp: 1556261

Ion Ratio Lower Upper

41 100

42 65.4 55.0 82.6



#10

Heptane

Concen: 0.117 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032861.D

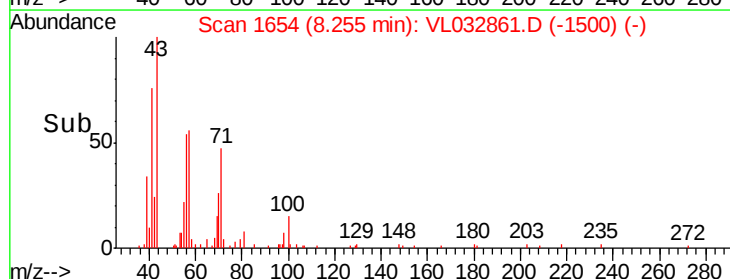
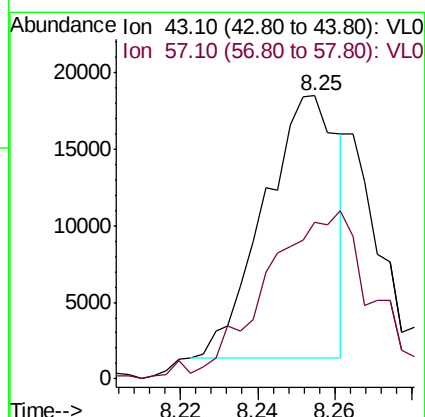
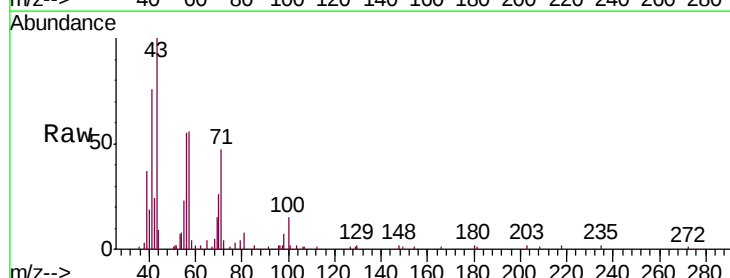
Acq: 30 Nov 2018 22:56

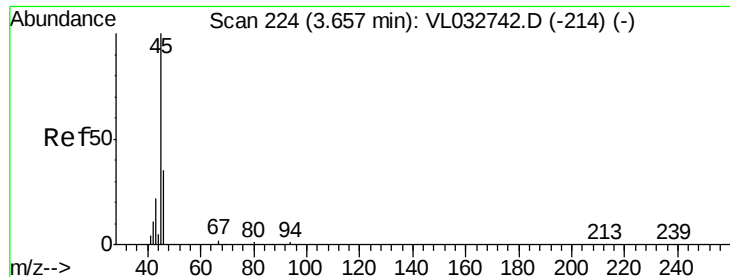
Tgt Ion: 43 Resp: 22692

Ion Ratio Lower Upper

43 100

57 94.6 41.8 62.8#





#13

Ethanol

Concen: 1.182 ppbv

RT: 3.68 min Scan# 230

Delta R.T. 0.02 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

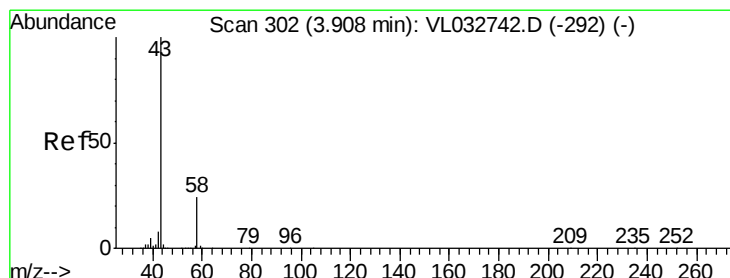
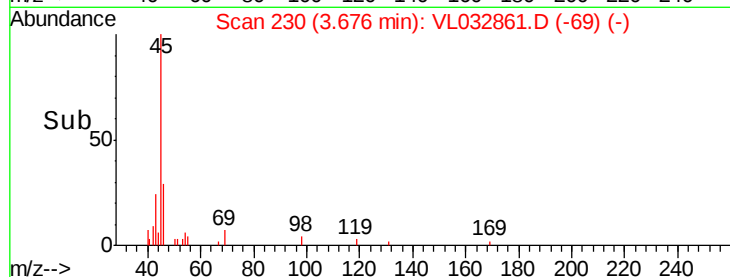
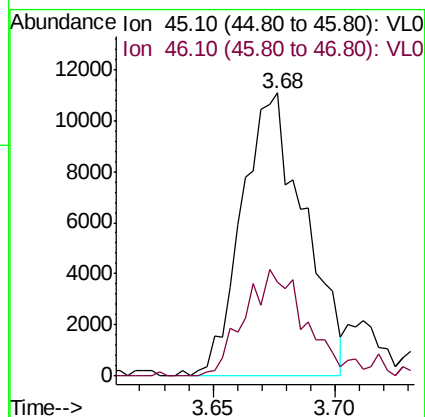
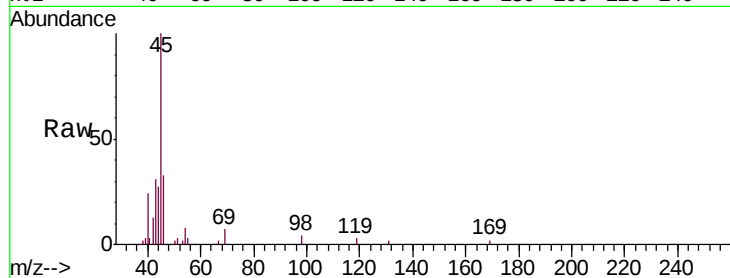
DSV-03DL2

Tgt Ion: 45 Resp: 19629

Ion Ratio Lower Upper

45 100

46 38.8 14.5 57.9



#15

Acetone

Concen: 4.923 ppbv

RT: 3.93 min Scan# 309

Delta R.T. 0.02 min

Lab File: VL032861.D

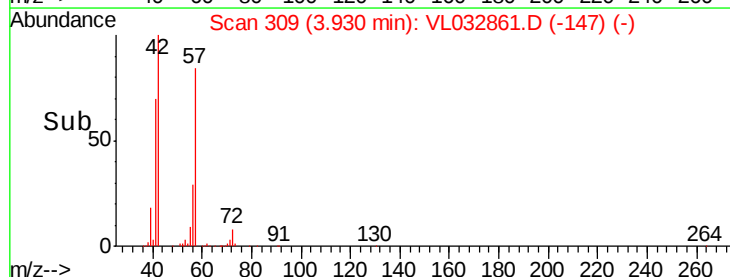
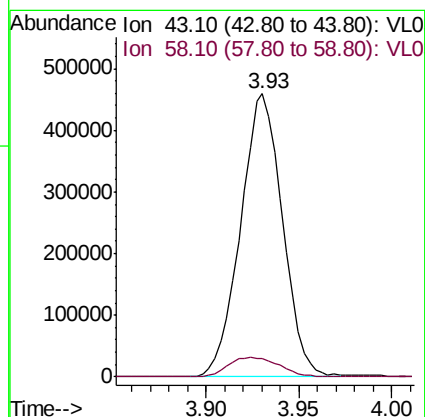
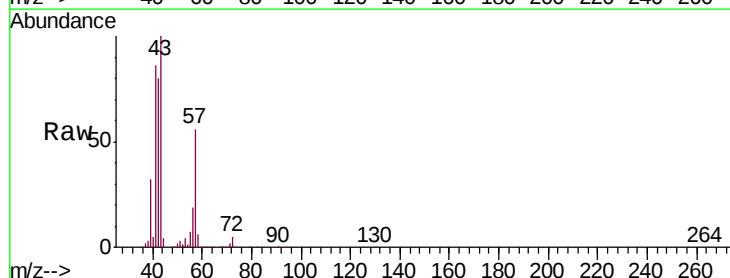
Acq: 30 Nov 2018 22:56

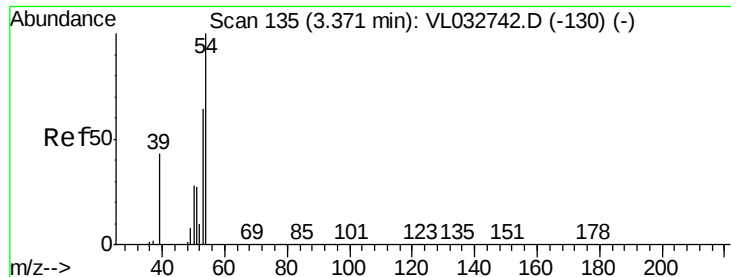
Tgt Ion: 43 Resp: 718475

Ion Ratio Lower Upper

43 100

58 8.7 21.1 31.7#





#16

1,3-Butadiene

Concen: 1.104 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

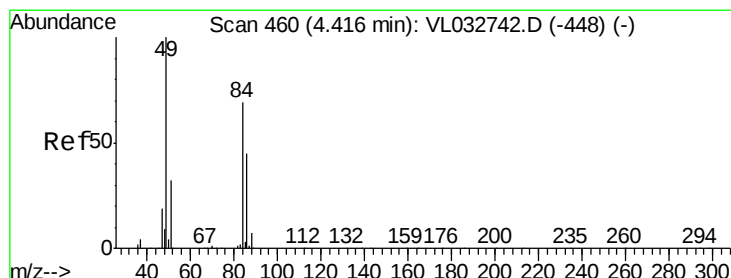
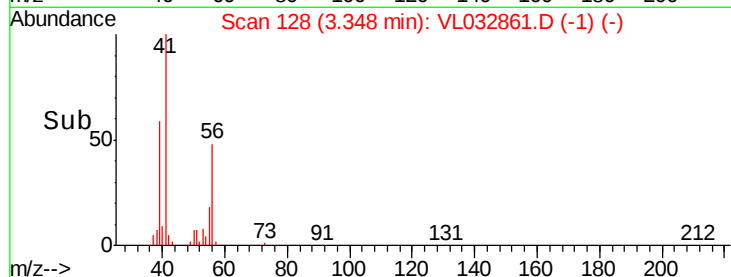
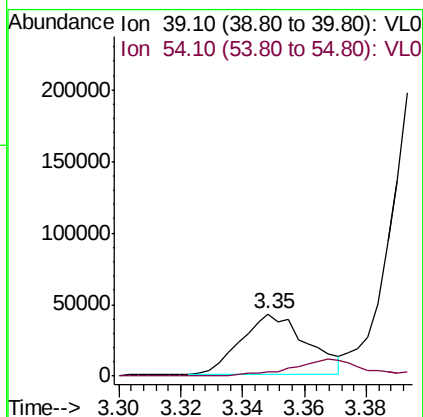
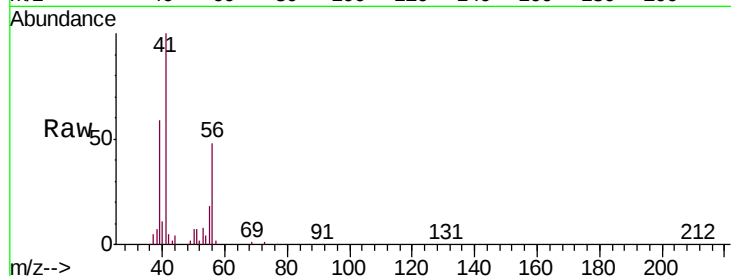
DSV-03DL2

Tgt Ion: 39 Resp: 62406

Ion Ratio Lower Upper

39 100

54 35.8 68.9 103.3#



#20

Methylene Chloride

Concen: 0.295 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Tgt Ion: 84 Resp: 22252

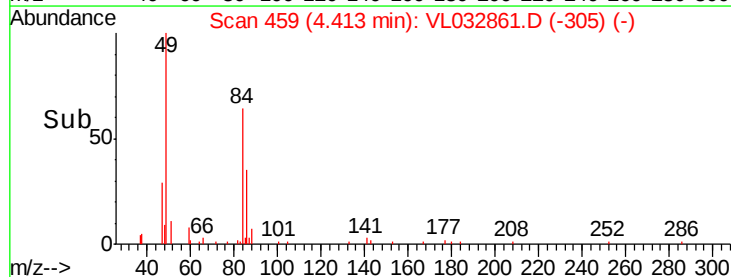
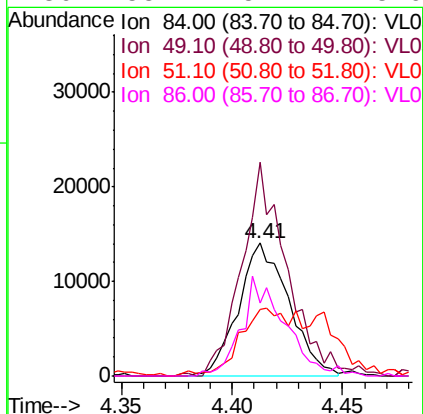
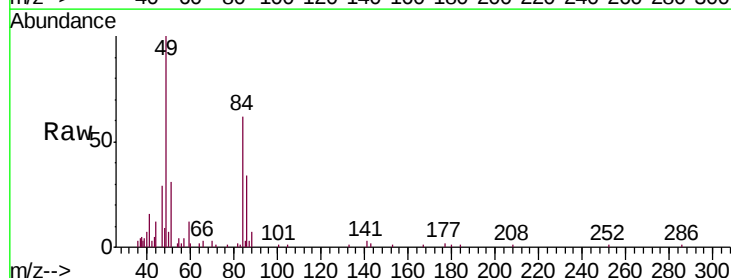
Ion Ratio Lower Upper

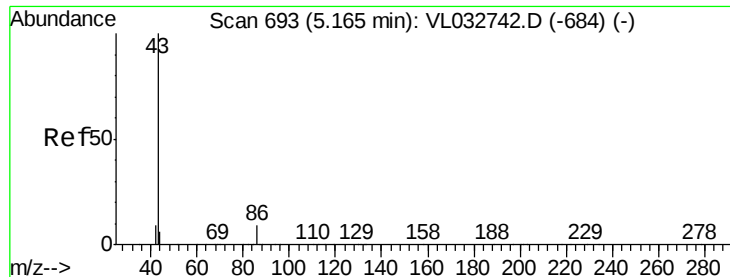
84 100

49 159.4 115.8 173.6

51 46.2 36.9 55.3

86 55.1 52.4 78.6





#23

Vinyl Acetate

Concen: 0.595 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.02 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL2

Tgt Ion: 43 Resp: 158272

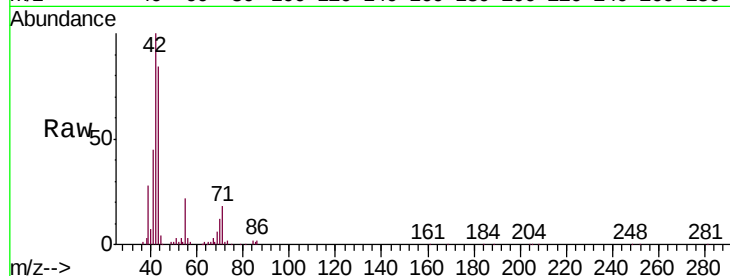
Ion Ratio Lower Upper

43 100

86 2.8 6.2 9.4#

42 119.1 7.8 11.6#

44 2.2 4.4 6.6#

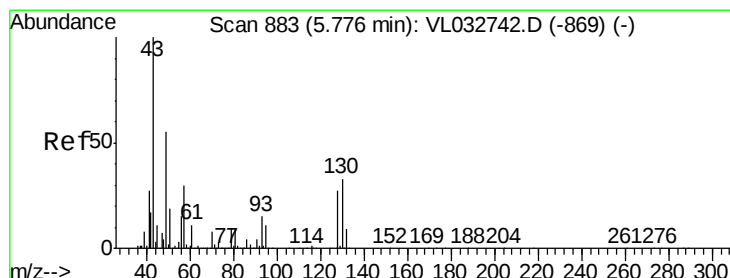
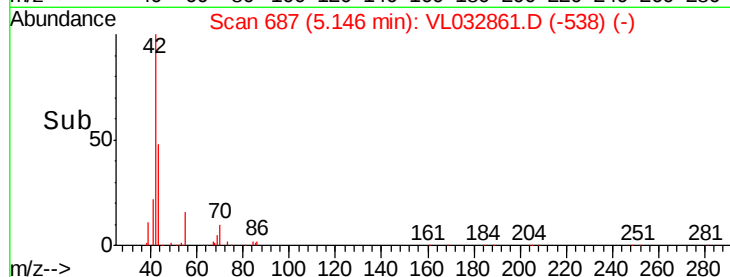
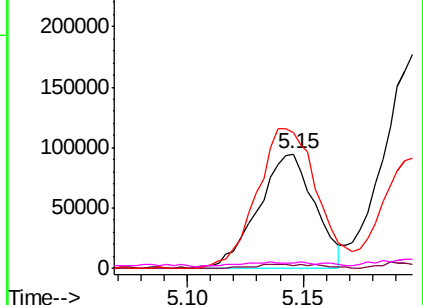


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.256 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Tgt Ion: 43 Resp: 87060

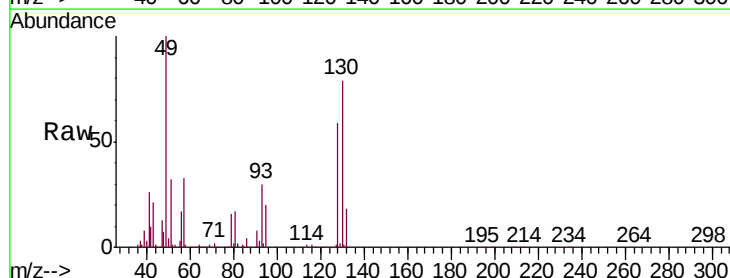
Ion Ratio Lower Upper

43 100

45 2.1 7.9 11.9#

61 0.5 7.8 11.6#

70 1.8 5.8 8.6#

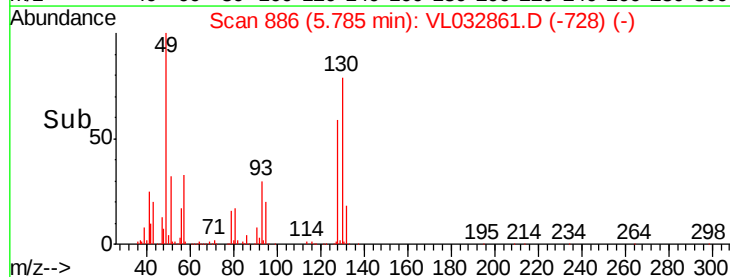
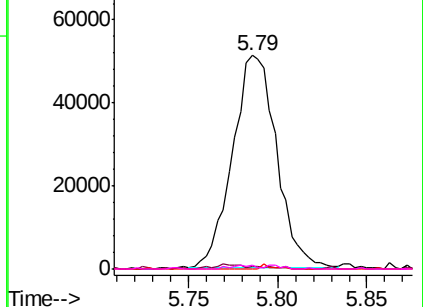


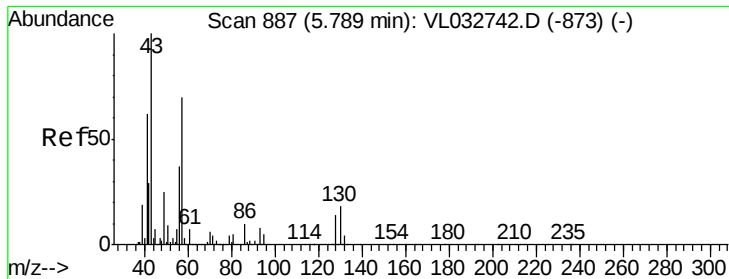
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

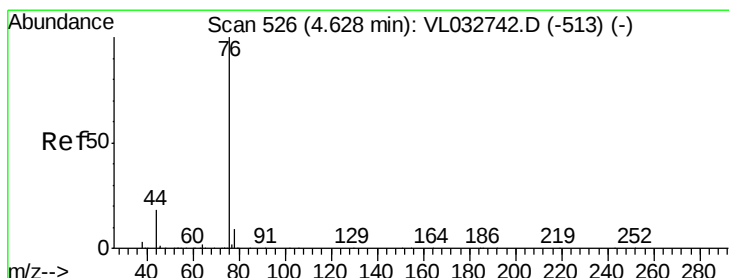
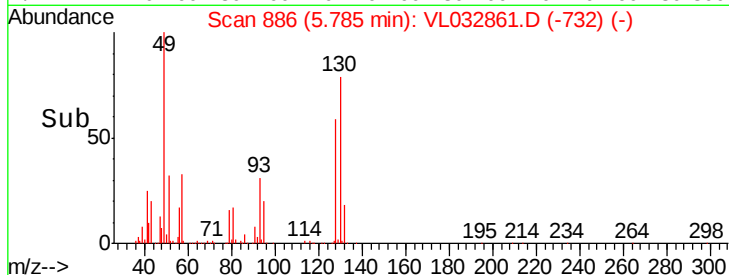
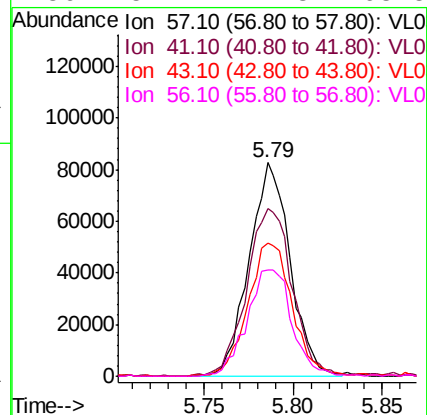
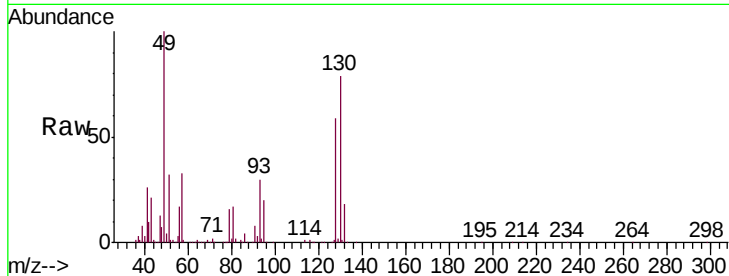




#26
Hexane
Concen: 0.875 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

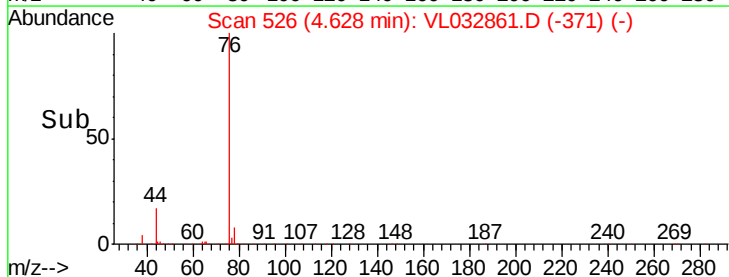
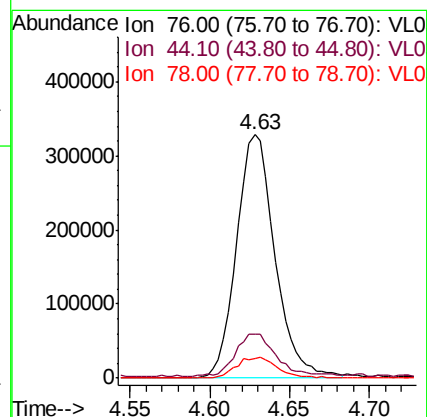
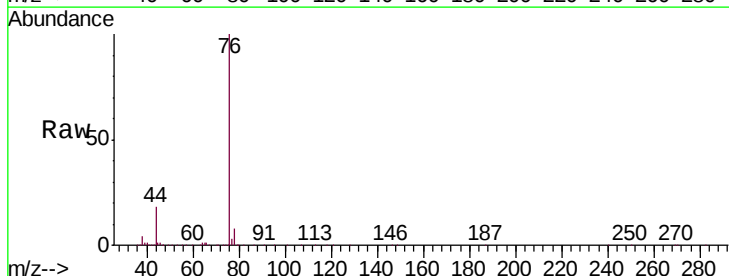
Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

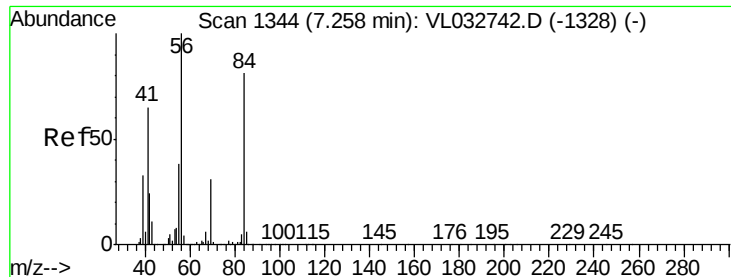
Tgt Ion: 57 Resp: 132549
Ion Ratio Lower Upper
57 100
41 88.8 70.3 105.5
43 68.0 174.0 261.0#
56 54.7 42.3 63.5



#27
Carbon Disulfide
Concen: 2.801 ppbv
RT: 4.63 min Scan# 526
Delta R.T. -0.00 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

Tgt Ion: 76 Resp: 537808
Ion Ratio Lower Upper
76 100
44 19.5 14.4 21.6
78 9.3 7.7 11.5

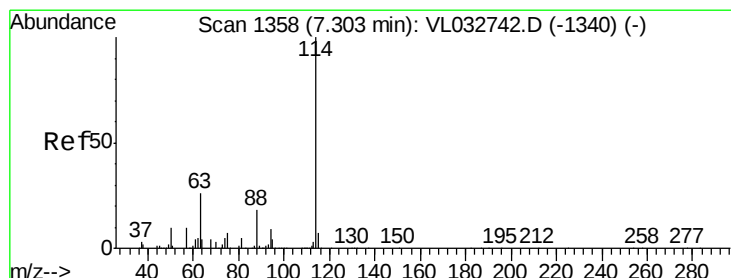
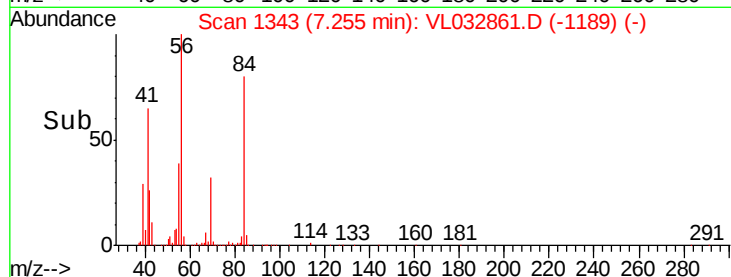
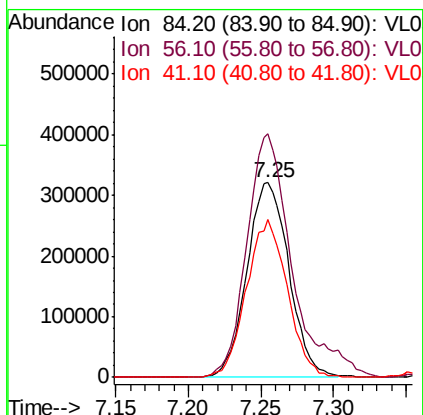
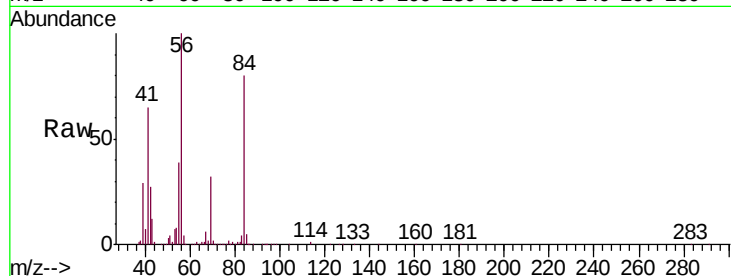




#30
Cyclohexane
Concen: 4.891 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

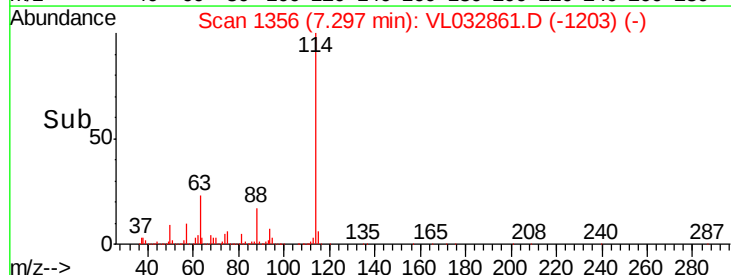
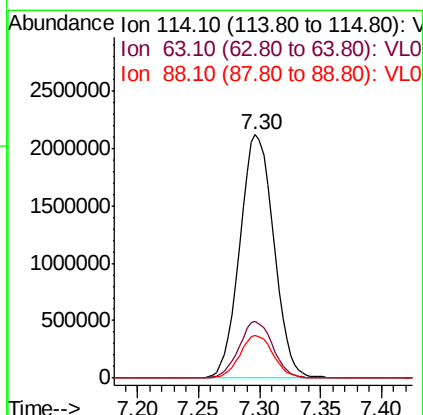
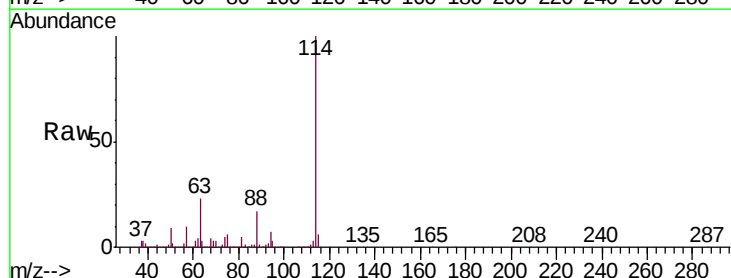
Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

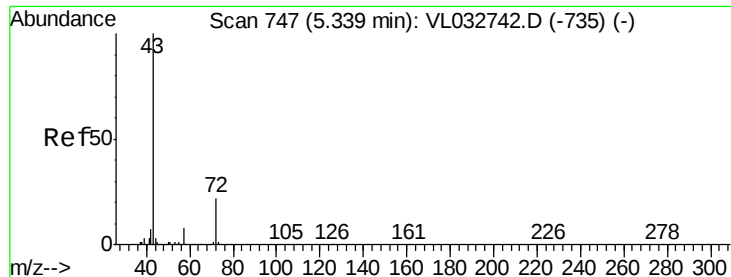
Tgt Ion: 84 Resp: 647683
Ion Ratio Lower Upper
84 100
56 135.5 105.0 157.4
41 78.9 65.3 97.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

Tgt Ion: 114 Resp: 4067553
Ion Ratio Lower Upper
114 100
63 23.3 20.9 31.3
88 17.3 14.4 21.6

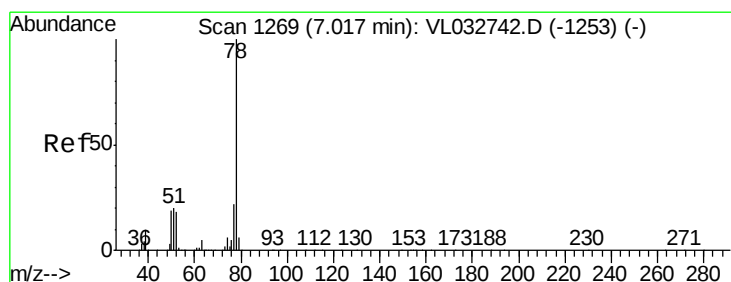
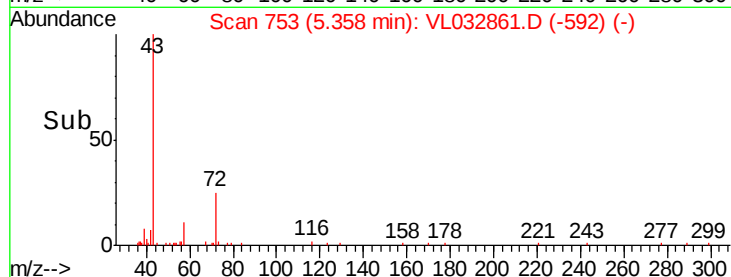
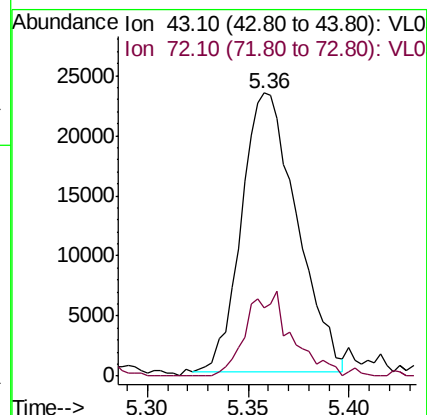
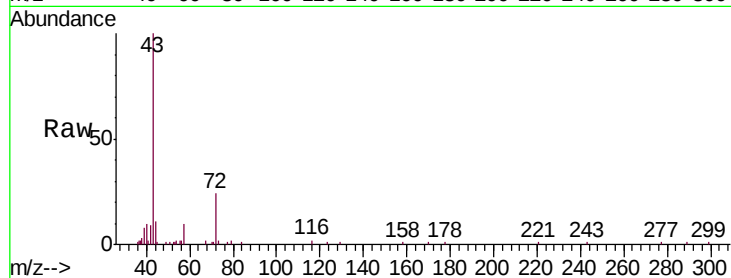




#34
2-Butanone
Concen: 0.211 ppbv
RT: 5.36 min Scan# 753
Delta R.T. 0.02 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

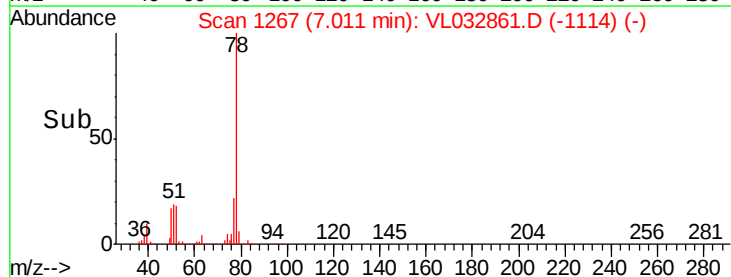
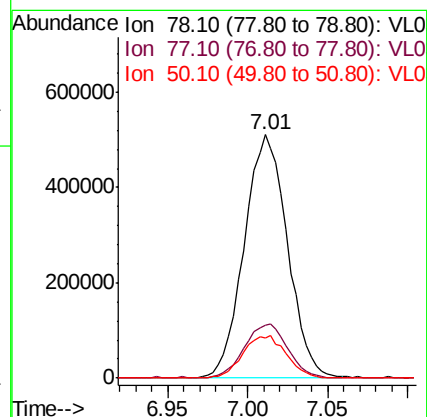
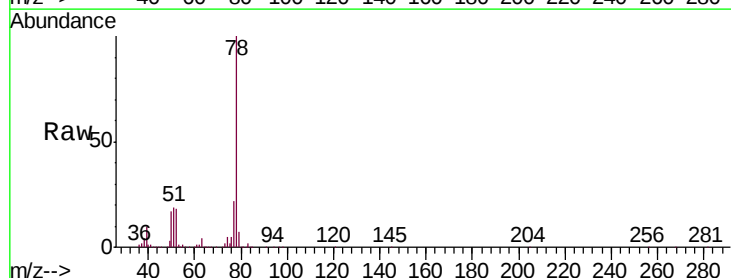
Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

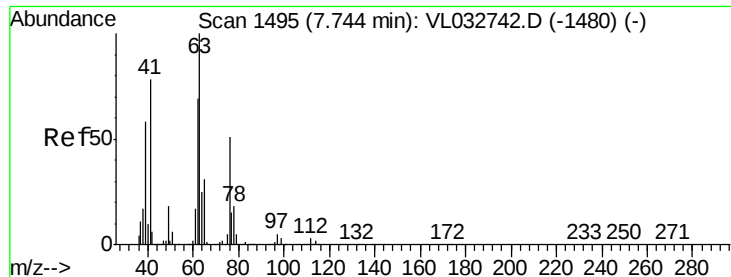
Tgt Ion: 43 Resp: 44573
Ion Ratio Lower Upper
43 100
72 25.7 18.4 27.6



#36
Benzene
Concen: 2.892 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

Tgt Ion: 78 Resp: 936847
Ion Ratio Lower Upper
78 100
77 21.4 17.8 26.8
50 16.6 15.4 23.0





#39

1,2-Dichloropropane

Concen: 7.562 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL2

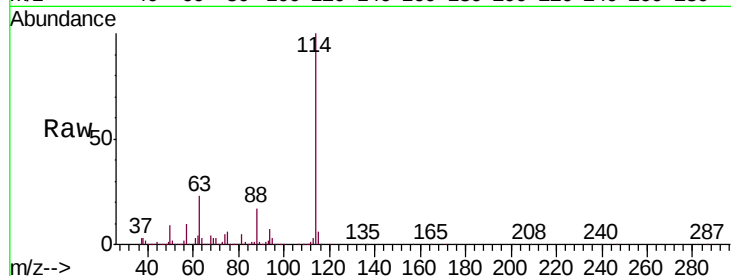
Tgt Ion: 63 Resp: 933265

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

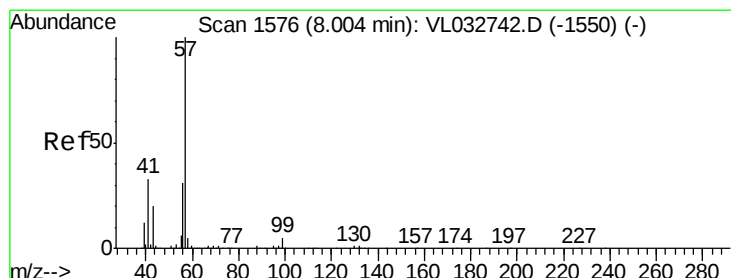
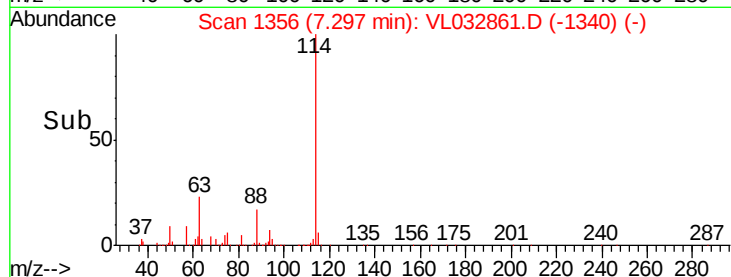
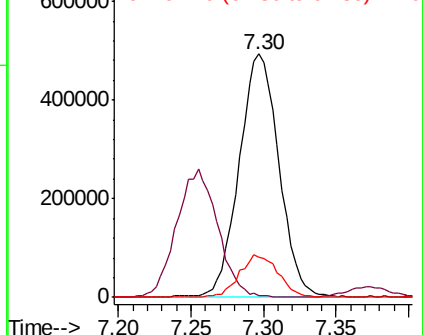
62 16.2 55.4 83.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.049 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

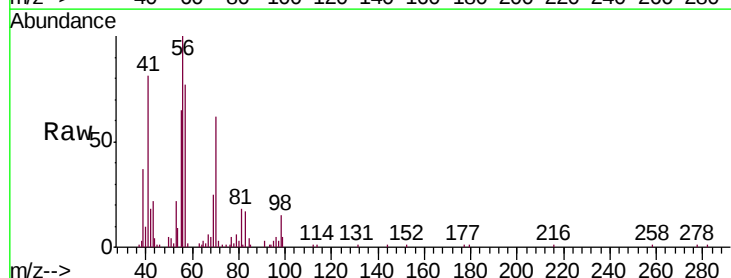
Tgt Ion: 57 Resp: 26718

Ion Ratio Lower Upper

57 100

41 180.8 26.6 39.8#

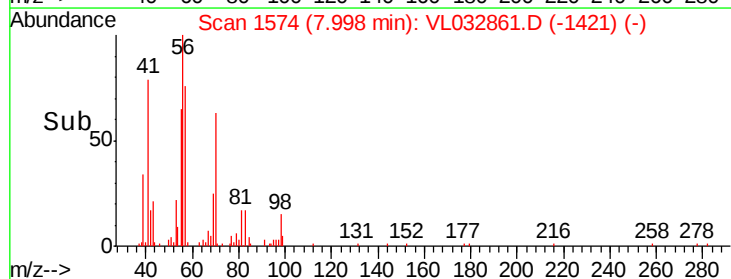
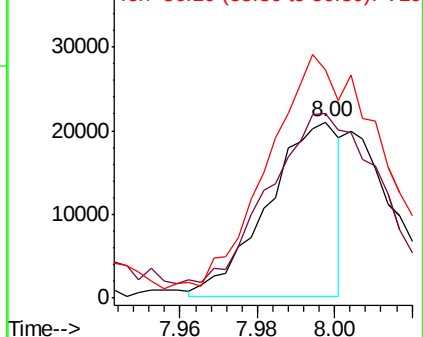
56 231.4 24.8 37.2#

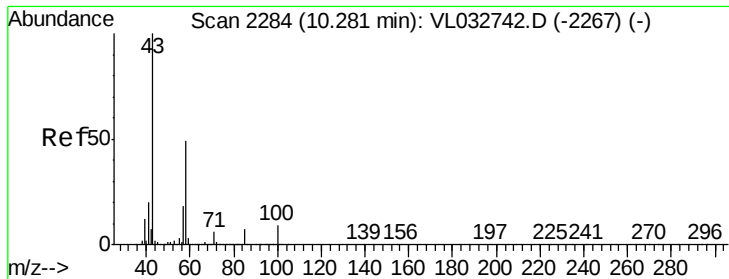


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

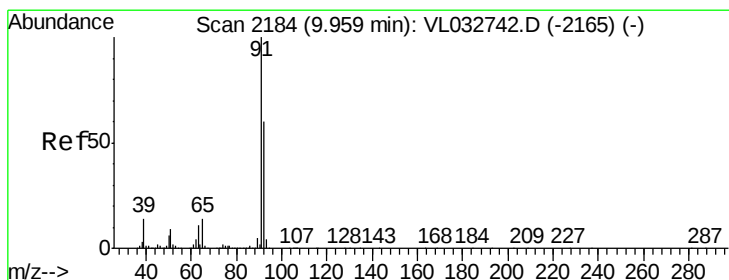
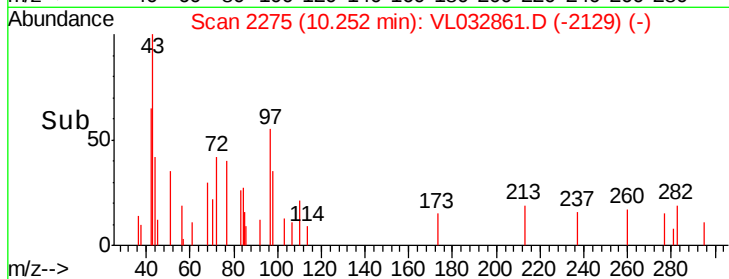
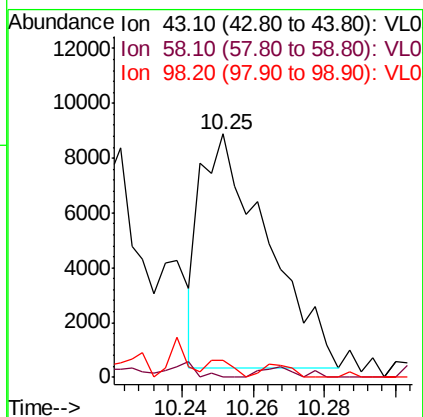
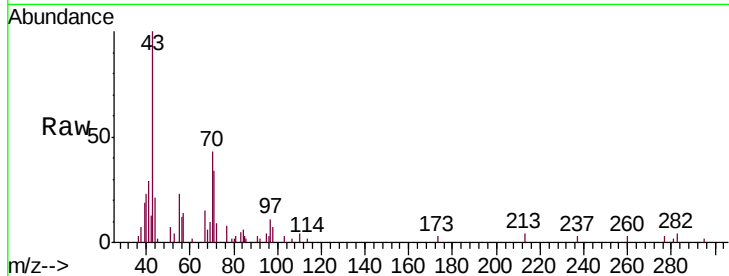




#51
2-Hexanone
Concen: 0.052 ppbv
RT: 10.25 min Scan# 2275
Delta R.T. -0.03 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

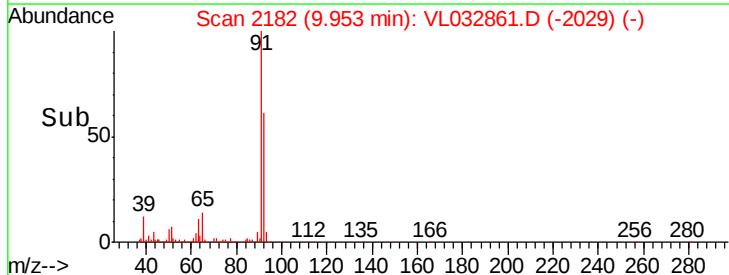
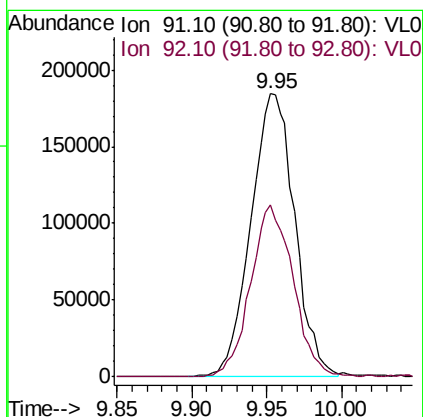
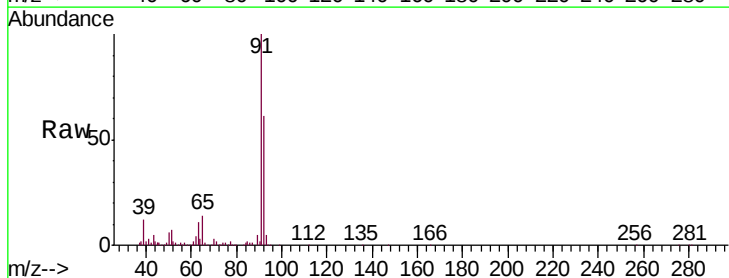
Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

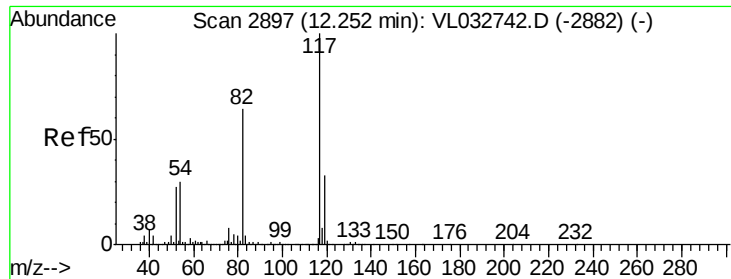
Tgt Ion: 43 Resp: 11116
Ion Ratio Lower Upper
43 100
58 2.4 38.9 58.3#
98 5.2 0.2 0.4#



#53
Toluene
Concen: 1.109 ppbv
RT: 9.95 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

Tgt Ion: 91 Resp: 374833
Ion Ratio Lower Upper
91 100
92 59.2 47.9 71.9

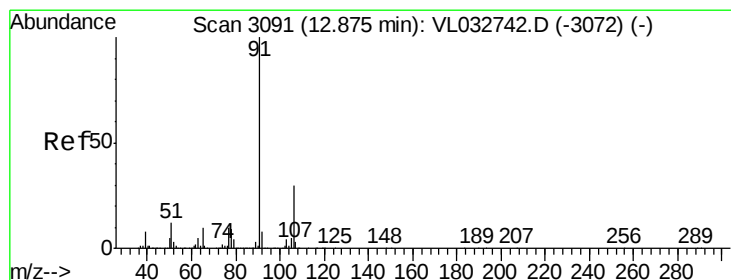
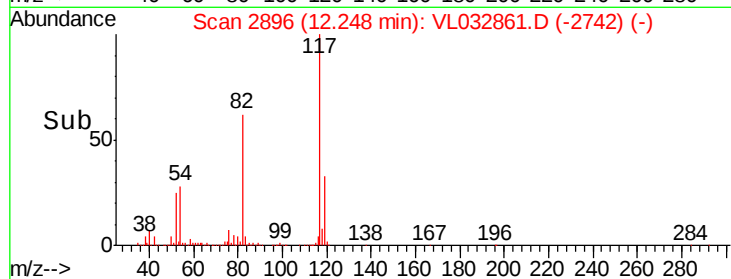
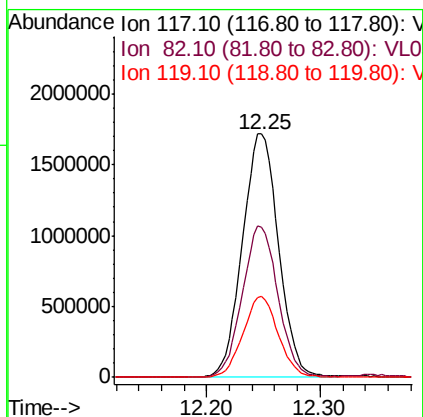
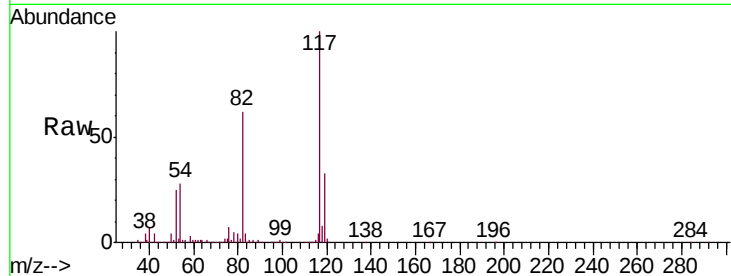




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

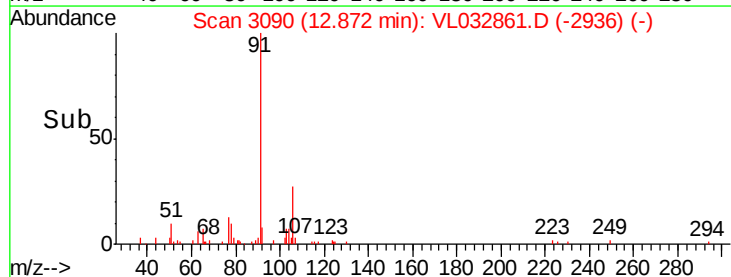
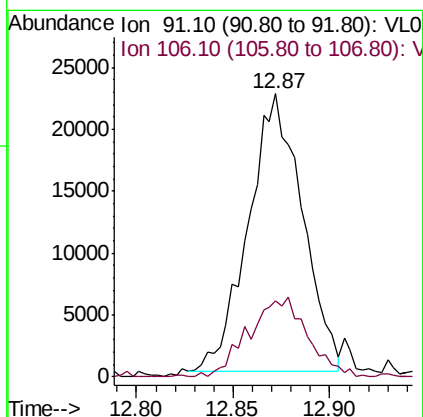
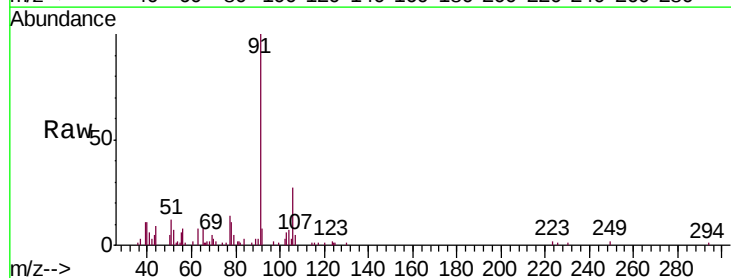
Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL2

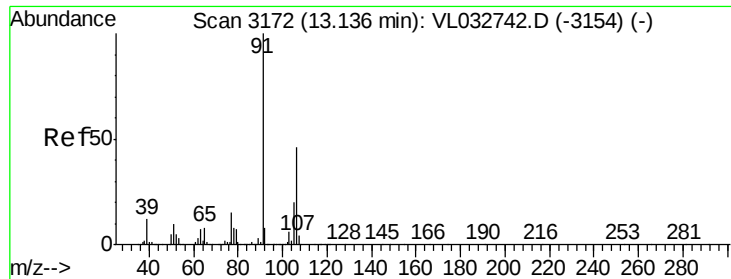
Tgt Ion:117 Resp: 3822835
Ion Ratio Lower Upper
117 100
82 61.3 51.0 76.6
119 32.6 28.0 42.0



#58
Ethyl Benzene
Concen: 0.094 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032861.D
Acq: 30 Nov 2018 22:56

Tgt Ion: 91 Resp: 43378
Ion Ratio Lower Upper
91 100
106 27.4 23.6 35.4





#59

m/p-Xylene

Concen: 0.361 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.01 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

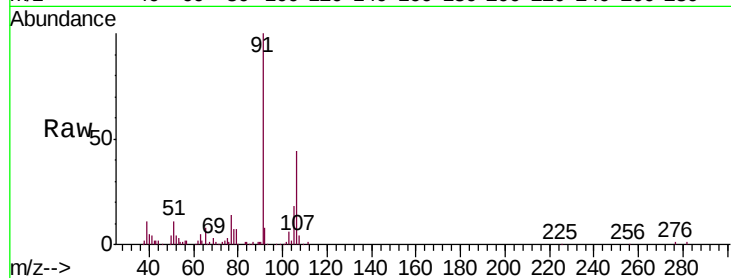
DSV-03DL2

Tgt Ion: 91 Resp: 147701

Ion Ratio Lower Upper

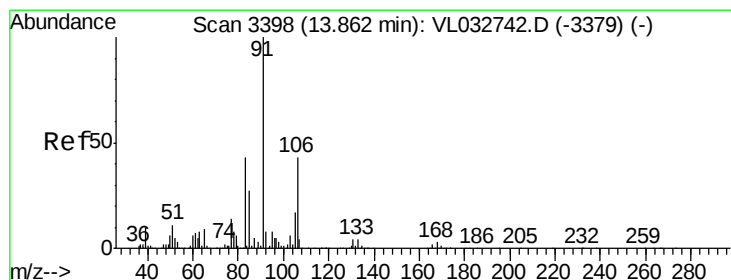
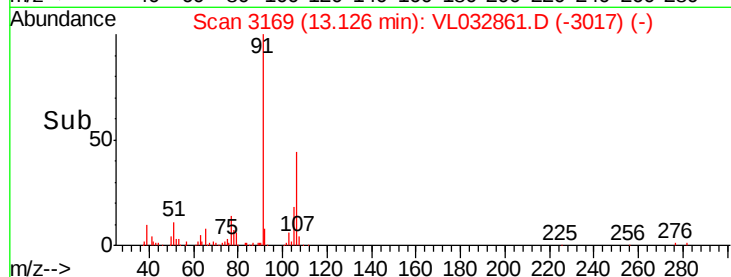
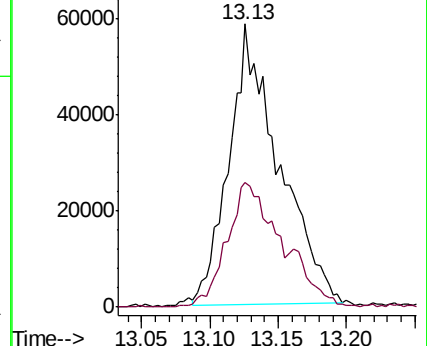
91 100

106 49.5 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: 0.121 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. -0.00 min

Lab File: VL032861.D

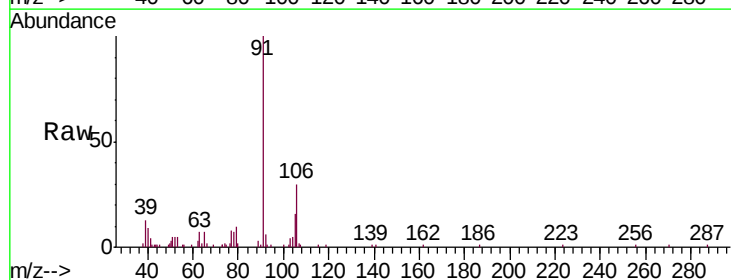
Acq: 30 Nov 2018 22:56

Tgt Ion: 91 Resp: 49868

Ion Ratio Lower Upper

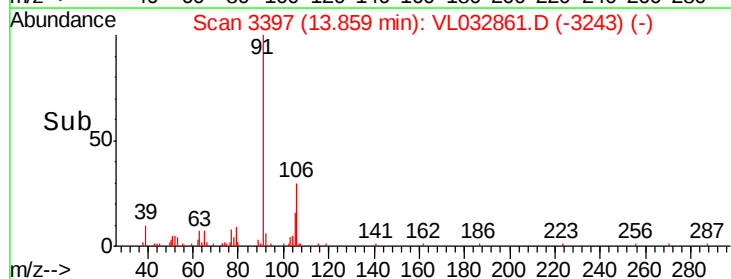
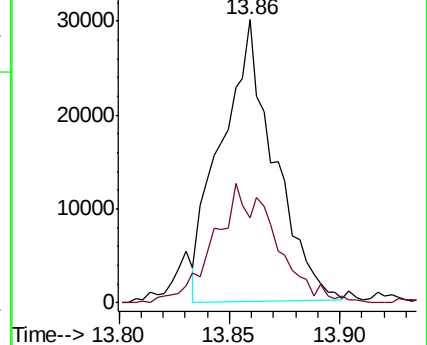
91 100

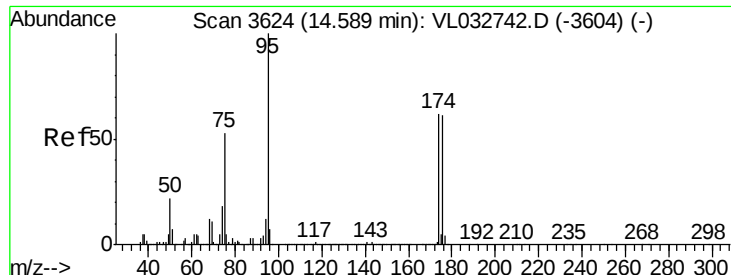
106 49.3 21.9 65.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.969 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032861.D

Acq: 30 Nov 2018 22:56

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL2

Tgt Ion: 95 Resp: 2850437

Ion Ratio Lower Upper

95 100

174 67.0 50.7 76.1

175 5.1 3.8 5.6

