

Data File : VL032736.D
Acq On : 8 Nov 2018 3:41
Operator : SY/AP
Sample : J5823-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-02DL

Quant Time: Nov 08 11:00:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1333077	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.30	114	3312126	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.25	117	3235789	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2493071 10.35 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.50%

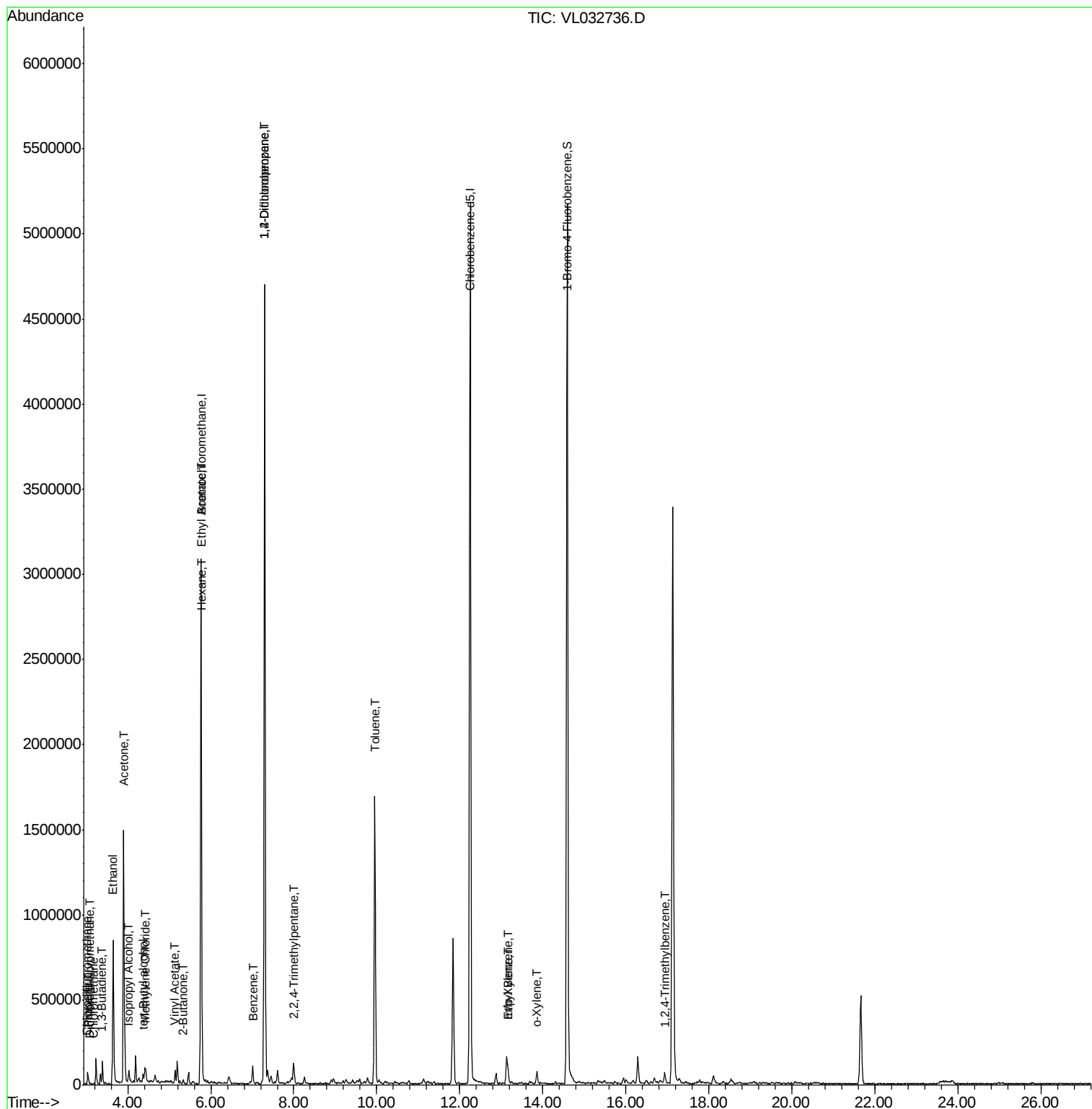
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	6744	0.050	ppbv #	88
3) Chlorodifluoromethane	3.02	51	7992	0.077	ppbv #	82
4) Chloromethane	3.17	50	6862	0.118	ppbv #	79
9) Propene	3.04	41	19987	0.466	ppbv	93
13) Ethanol	3.64	45	898758	73.294	ppbv	96
15) Acetone	3.90	43	1503030	12.210	ppbv	97
16) 1,3-Butadiene	3.37	39	1862	0.041	ppbv #	1
17) tert-Butyl alcohol	4.36	59	7146	0.197	ppbv #	100
19) Isopropyl Alcohol	4.03	45	72756	0.830	ppbv #	1
20) Methylene Chloride	4.41	84	22208	0.355	ppbv #	90
23) Vinyl Acetate	5.15	43	32509	0.149	ppbv #	1
25) Ethyl Acetate	5.78	43	49340	0.174	ppbv #	95
26) Hexane	5.78	57	37557	0.280	ppbv #	61
34) 2-Butanone	5.34	43	24131	0.136	ppbv	96
36) Benzene	7.01	78	79598	0.296	ppbv #	91
39) 1,2-Dichloropropane	7.29	63	850309	8.187	ppbv #	26
44) 2,2,4-Trimethylpentane	7.99	57	53772	0.117	ppbv #	26
53) Toluene	9.95	91	1213864	3.937	ppbv	97
58) Ethyl Benzene	13.16	91	38664	0.103	ppbv	93
59) m/p-Xylene	13.16	91	38664	0.116	ppbv #	31
60) o-Xylene	13.86	91	30157	0.093	ppbv #	49
74) 1,2,4-Trimethylbenzene	16.94	105	27270	0.076	ppbv #	76

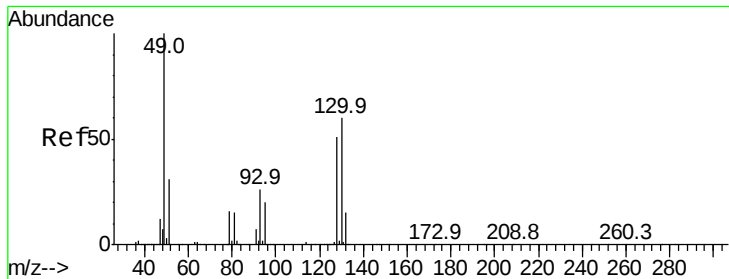
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.02 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

IA-02DL

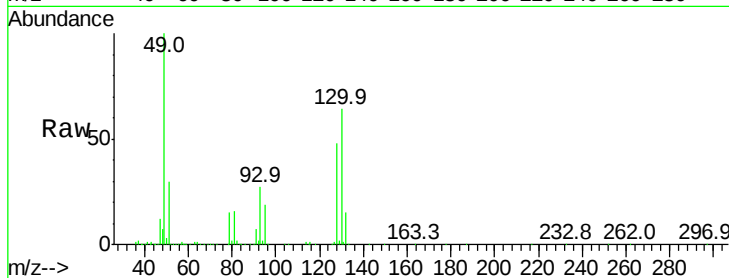
Tgt Ion: 49 Resp: 1333077

Ion Ratio Lower Upper

49 100

128 49.9 22.3 66.8

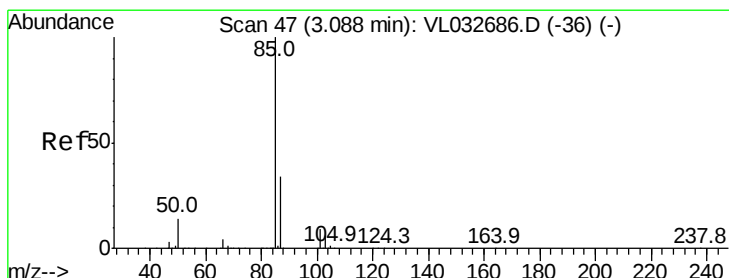
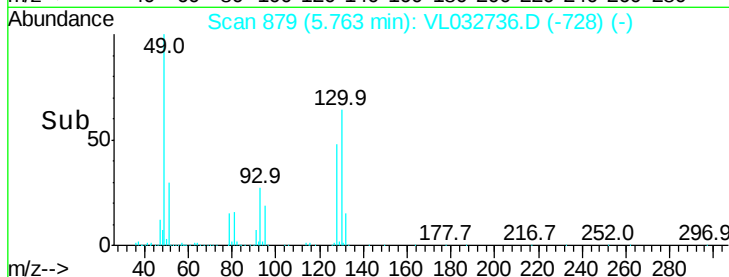
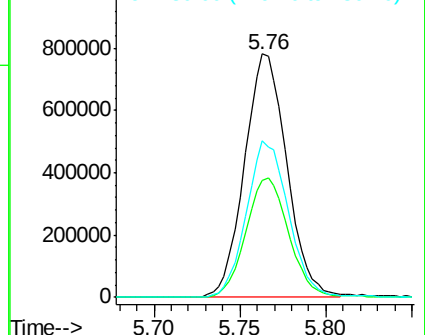
130 64.4 28.4 85.3



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



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.01 min

Lab File: VL032736.D

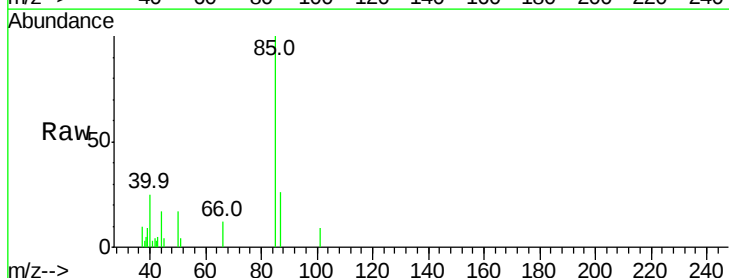
Acq: 8 Nov 2018 3:41

Tgt Ion: 85 Resp: 6744

Ion Ratio Lower Upper

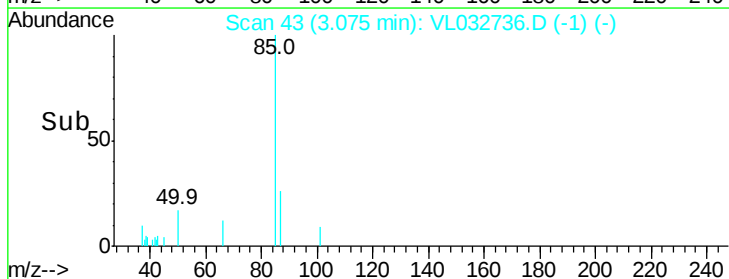
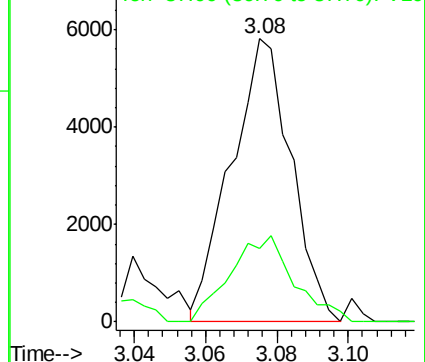
85 100

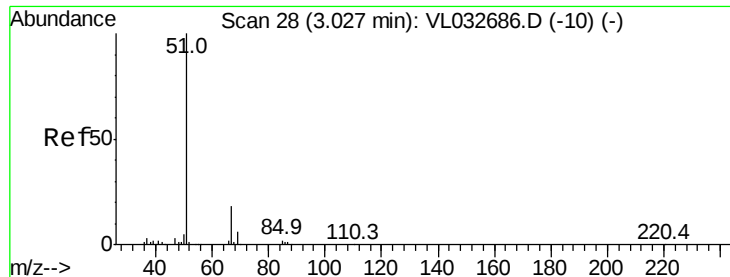
87 26.1 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.077 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

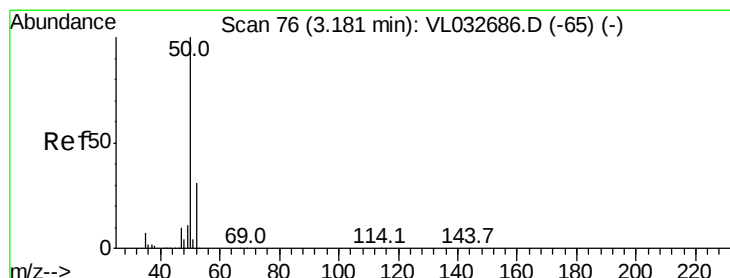
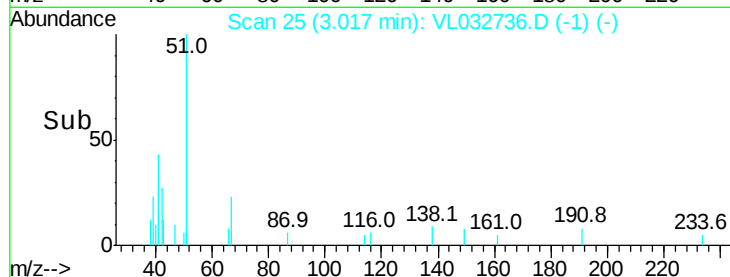
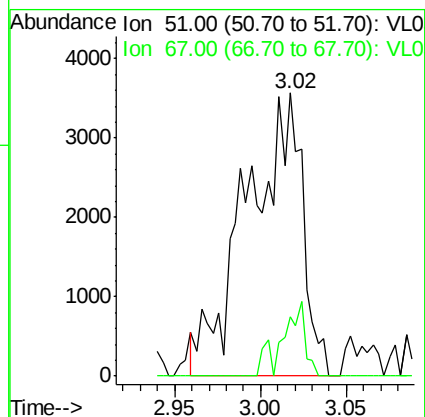
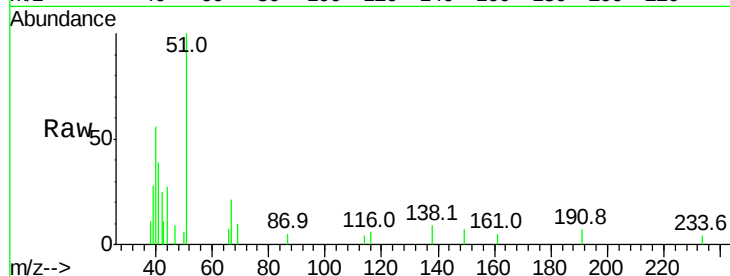
IA-02DL

Tgt Ion: 51 Resp: 7992

Ion Ratio Lower Upper

51 100

67 10.8 15.2 22.8#



#4

Chloromethane

Concen: 0.118 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL032736.D

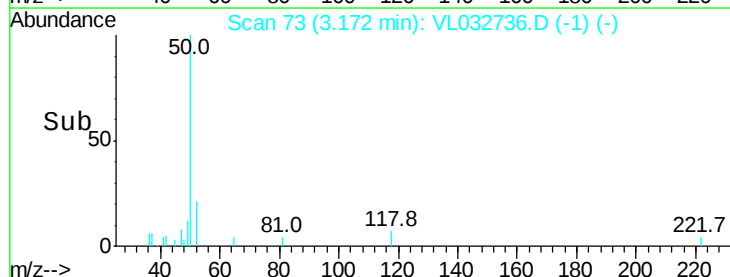
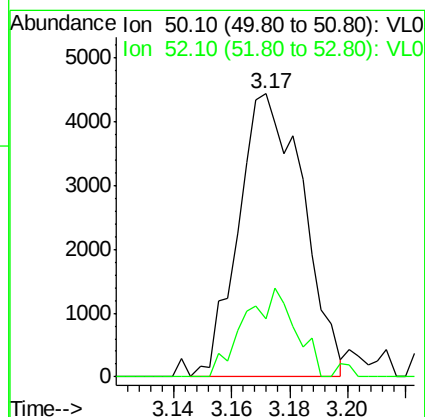
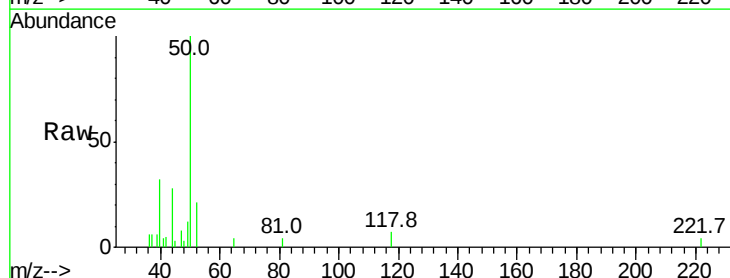
Acq: 8 Nov 2018 3:41

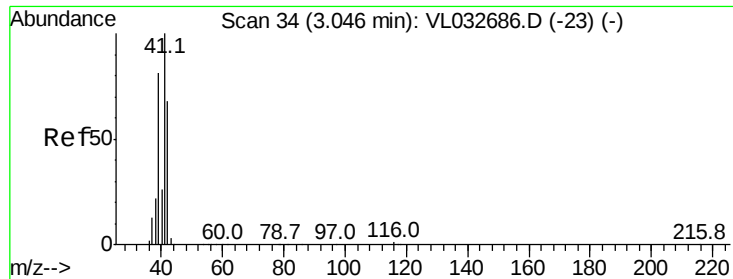
Tgt Ion: 50 Resp: 6862

Ion Ratio Lower Upper

50 100

52 20.8 25.9 38.9#





#9

Propene

Concen: 0.466 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleID :

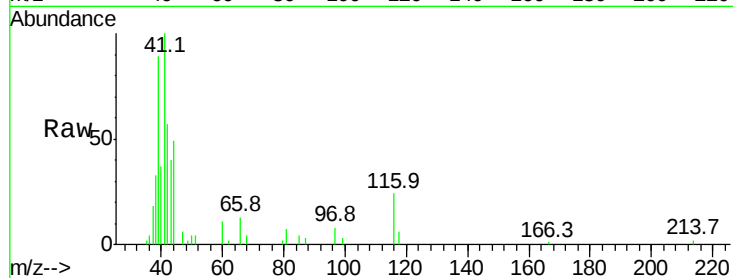
IA-02DL

Tgt Ion: 41 Resp: 19987

Ion Ratio Lower Upper

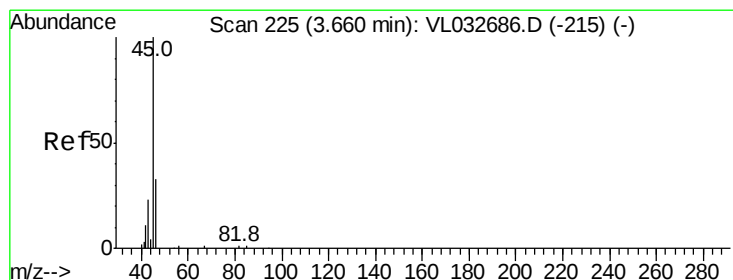
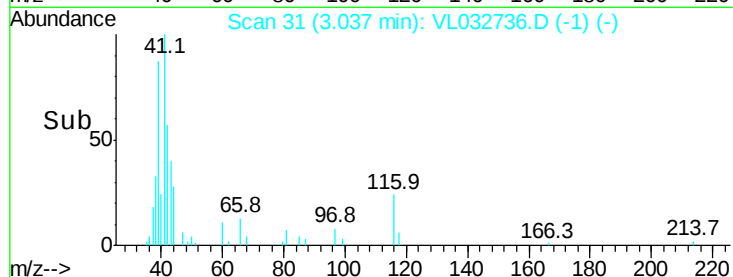
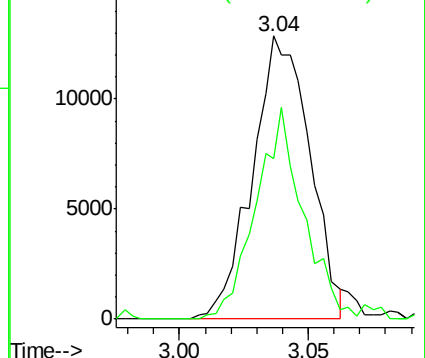
41 100

42 63.7 55.4 83.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 73.294 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.02 min

Lab File: VL032736.D

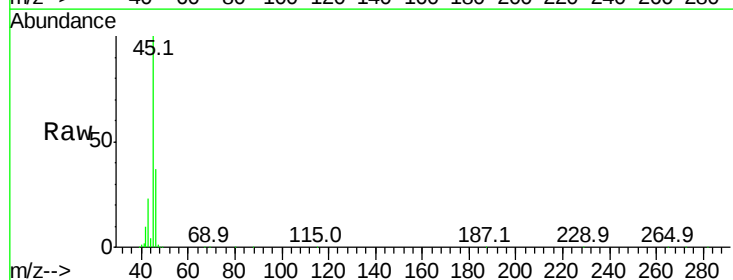
Acq: 8 Nov 2018 3:41

Tgt Ion: 45 Resp: 898758

Ion Ratio Lower Upper

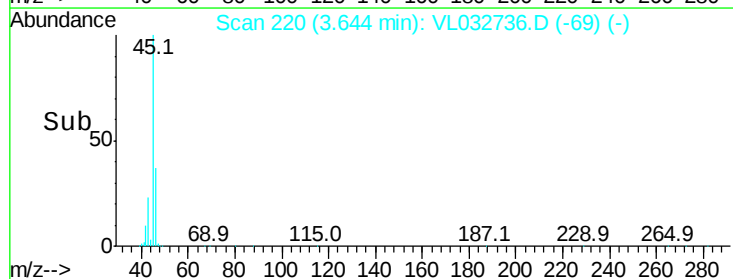
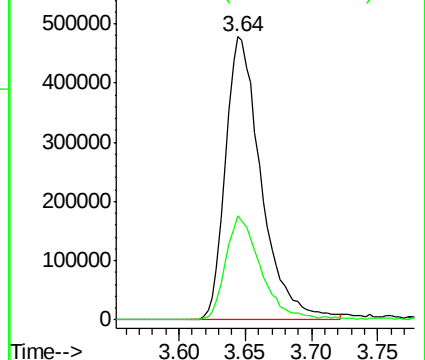
45 100

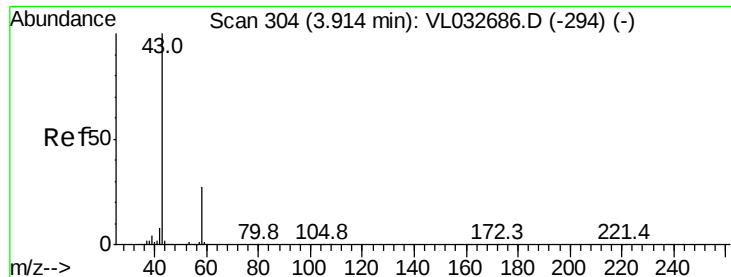
46 36.4 15.4 61.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 12.210 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

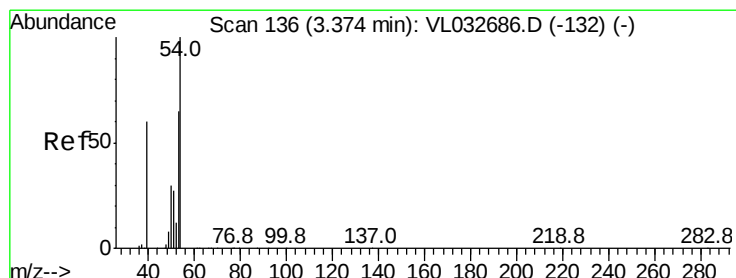
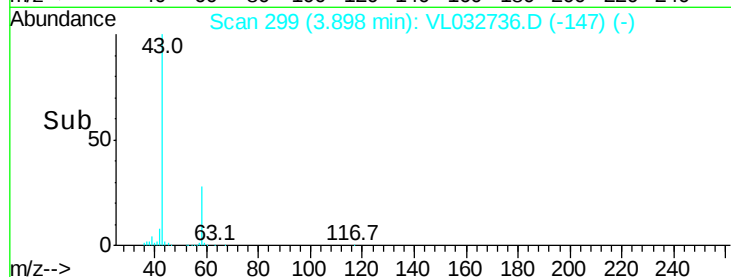
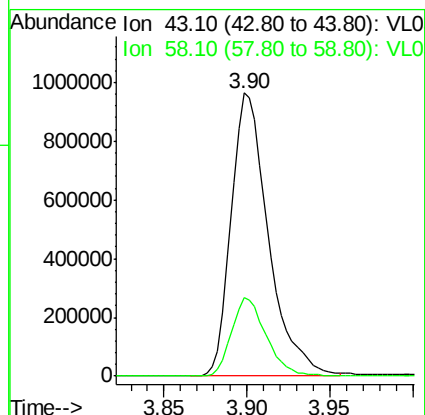
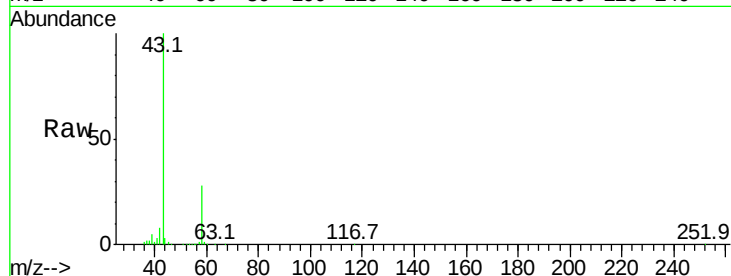
IA-02DL

Tgt Ion: 43 Resp: 1503030

Ion Ratio Lower Upper

43 100

58 26.1 22.1 33.1



#16

1,3-Butadiene

Concen: 0.041 ppbv

RT: 3.37 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL032736.D

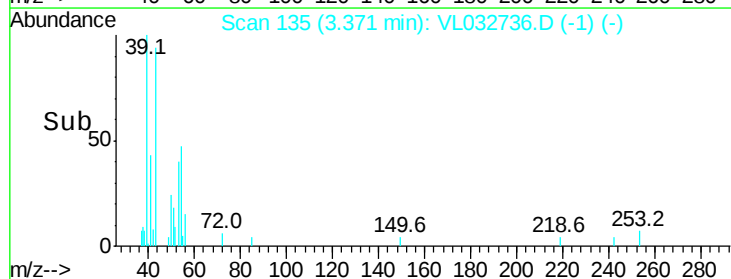
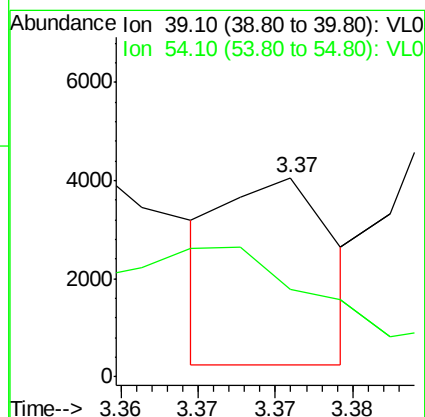
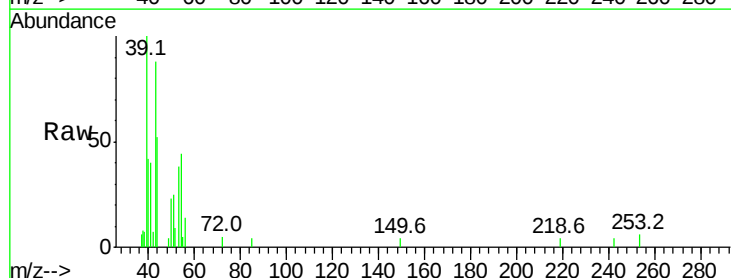
Acq: 8 Nov 2018 3:41

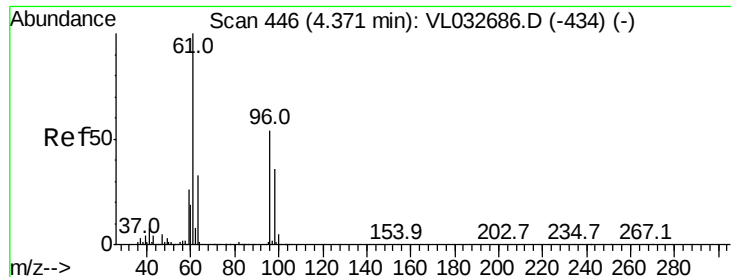
Tgt Ion: 39 Resp: 1862

Ion Ratio Lower Upper

39 100

54 257.7 90.4 135.6#



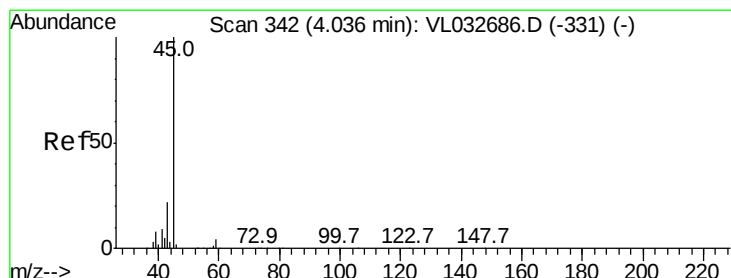
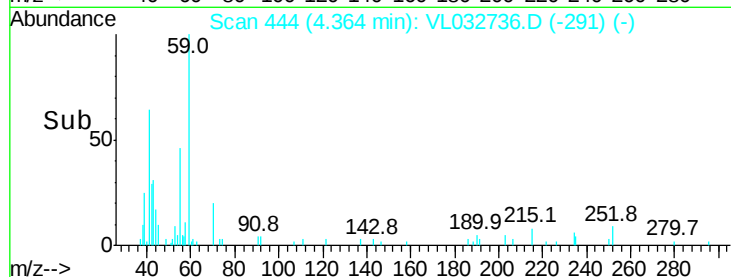
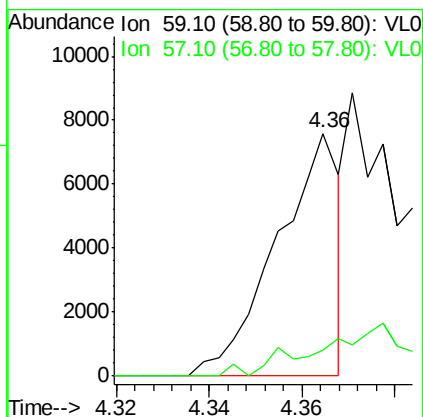
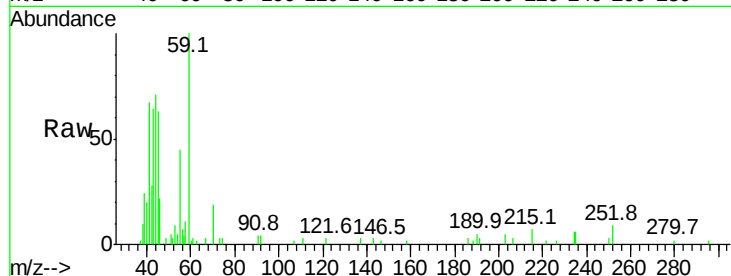


#17

tert-Butyl alcohol
Concen: 0.197 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.01 min
Lab File: VL032736.D
Acq: 8 Nov 2018 3:41

Instrument :
MSVOA_L
ClientSampleId :
IA-02DL

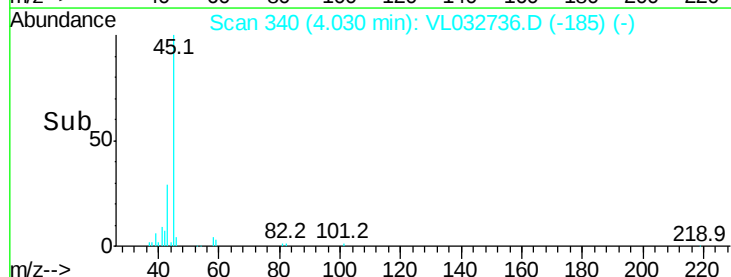
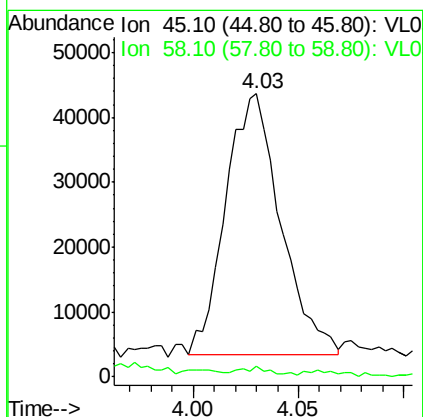
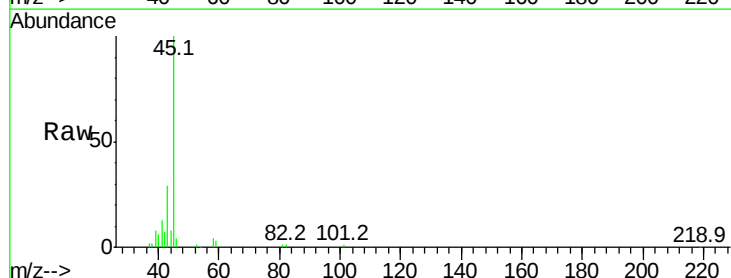
Tgt Ion: 59 Resp: 7146
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

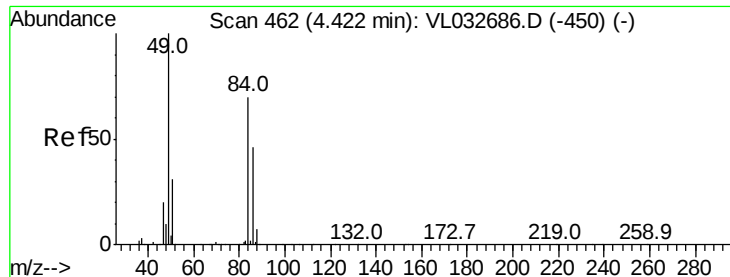


#19

Isopropyl Alcohol
Concen: 0.830 ppbv
RT: 4.03 min Scan# 340
Delta R.T. -0.00 min
Lab File: VL032736.D
Acq: 8 Nov 2018 3:41

Tgt Ion: 45 Resp: 72756
Ion Ratio Lower Upper
45 100
58 539.3 2.0 3.0#





#20

Methylene Chloride

Concen: 0.355 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

IA-02DL

Tgt Ion: 84 Resp: 22208

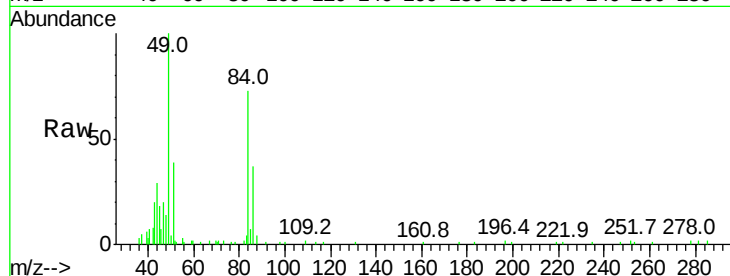
Ion Ratio Lower Upper

84 100

49 132.5 113.5 170.3

51 53.3 34.8 52.2#

86 49.9 47.9 71.9

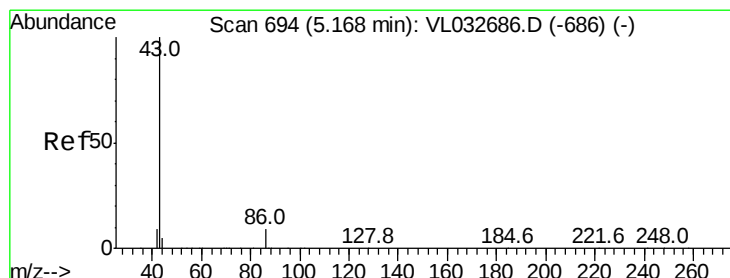
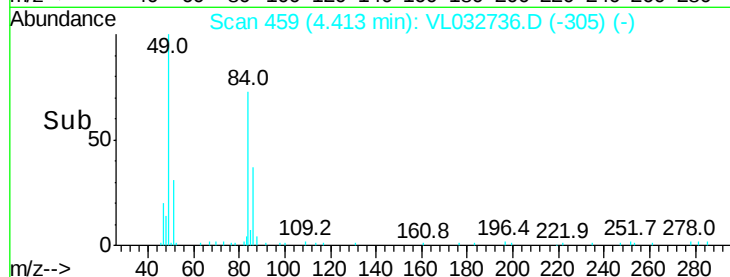
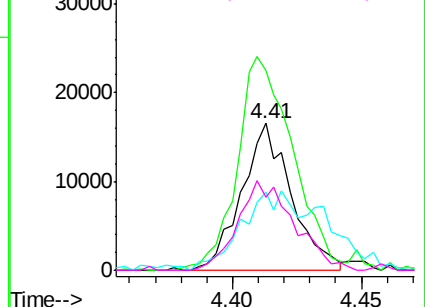


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 0.149 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.02 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Tgt Ion: 43 Resp: 32509

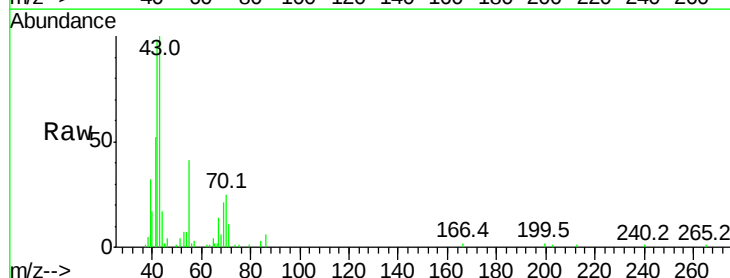
Ion Ratio Lower Upper

43 100

86 5.8 6.1 9.1#

42 96.8 7.4 11.2#

44 2.7 4.2 6.2#

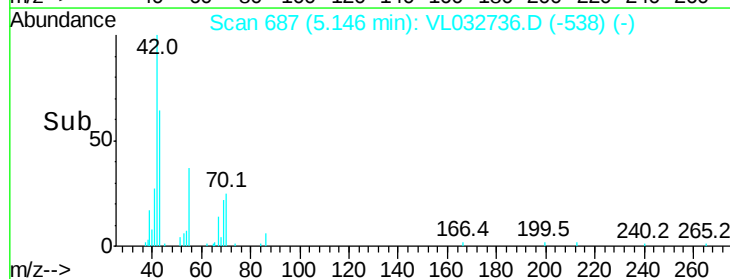
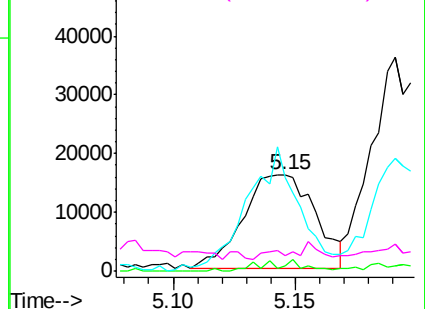


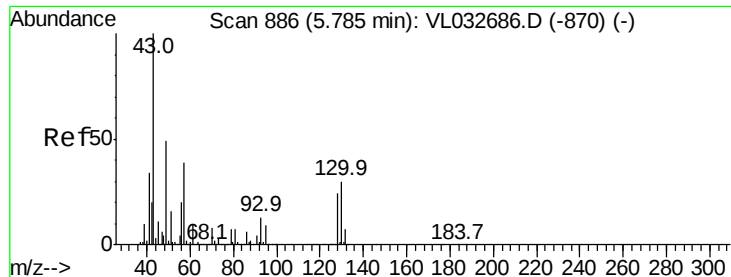
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.174 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

IA-02DL

Tgt Ion: 43 Resp: 49340

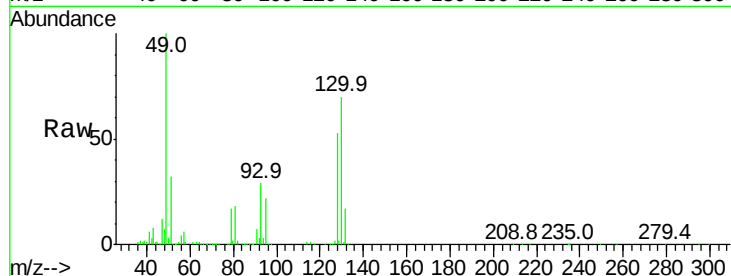
Ion Ratio Lower Upper

43 100

45 10.3 8.0 12.0

61 6.0 8.0 12.0#

70 6.4 5.9 8.9

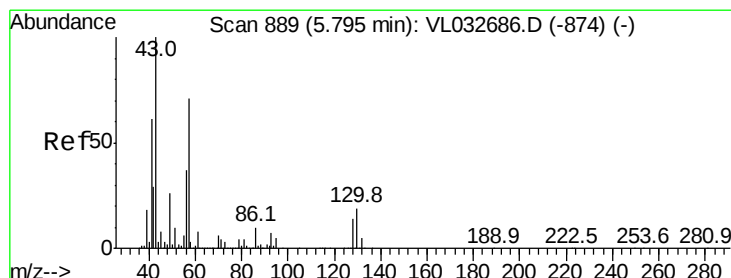
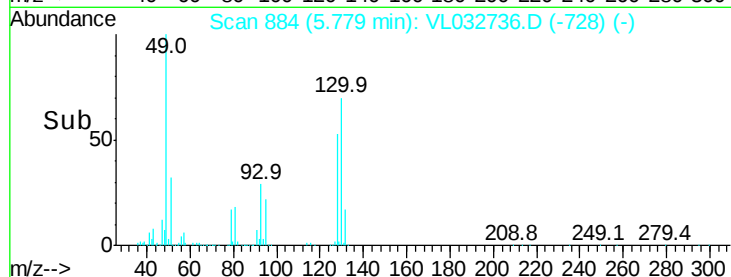
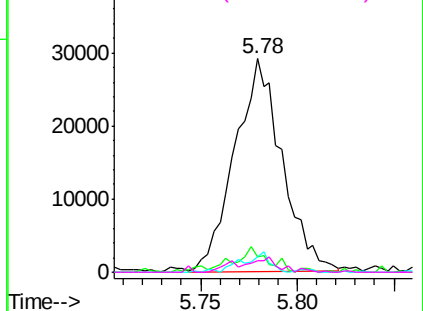


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.280 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Tgt Ion: 57 Resp: 37557

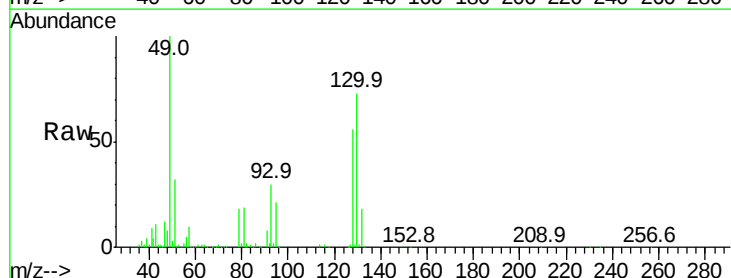
Ion Ratio Lower Upper

57 100

41 111.1 67.4 101.0#

43 135.4 171.9 257.9#

56 61.6 42.6 63.8

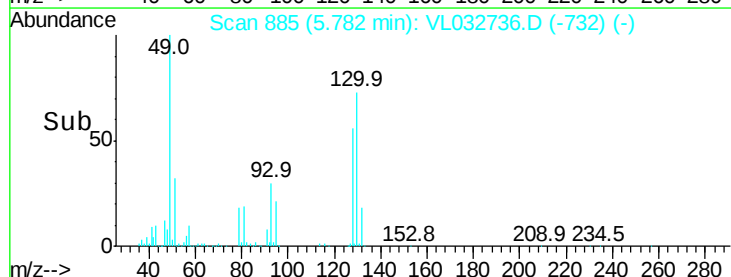
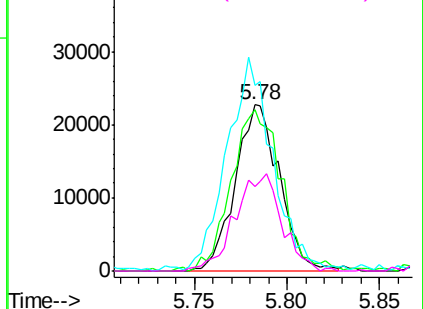


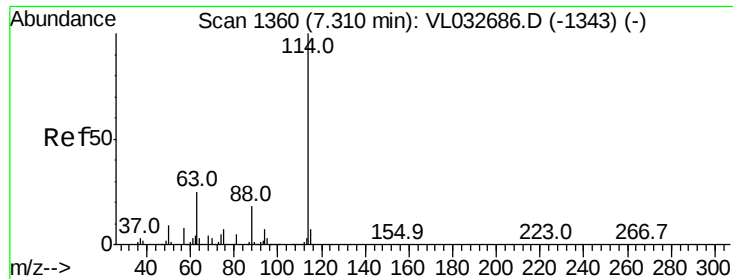
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

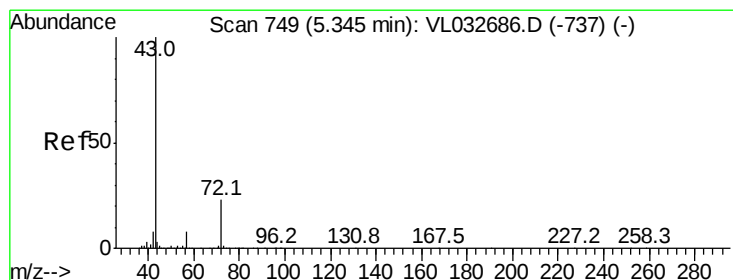
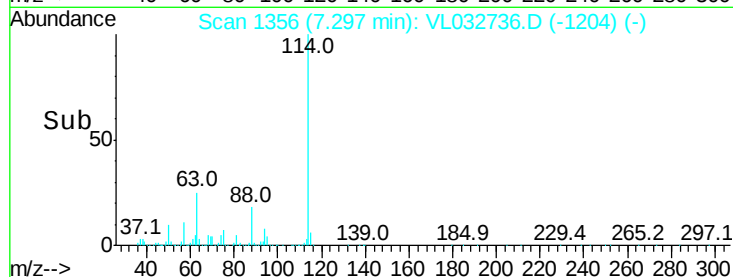
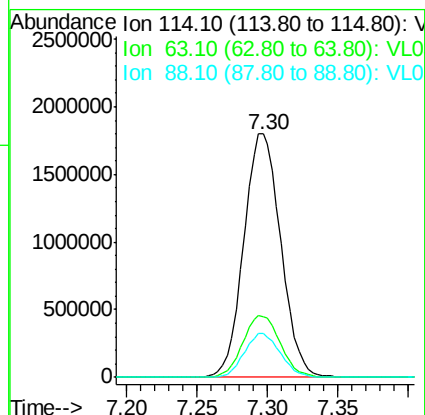
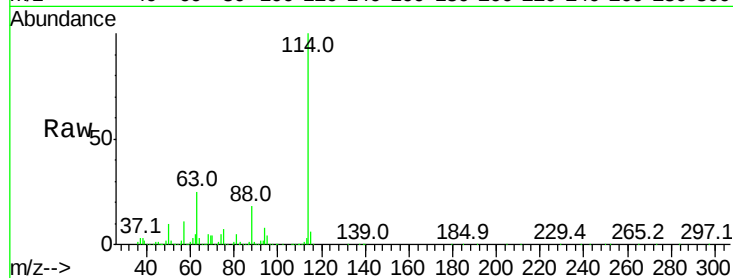




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032736.D
 Acq: 8 Nov 2018 3:41

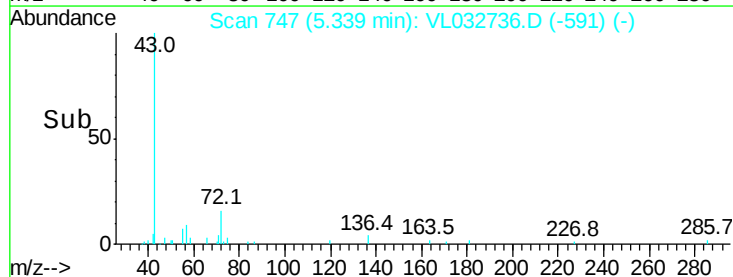
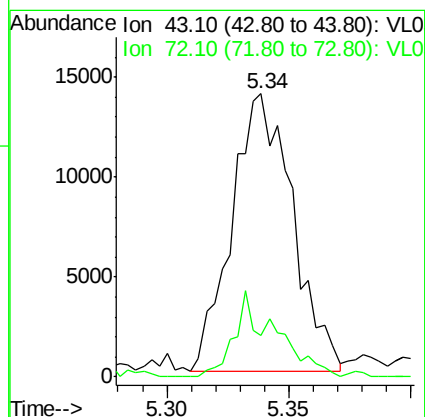
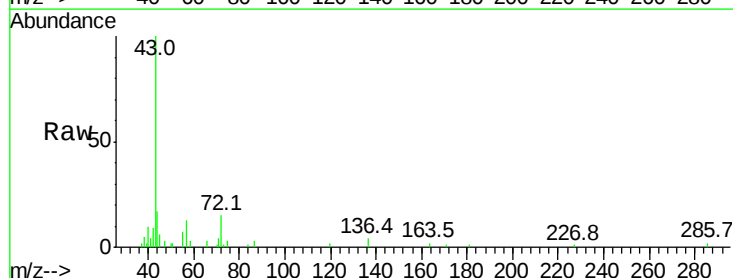
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-02DL

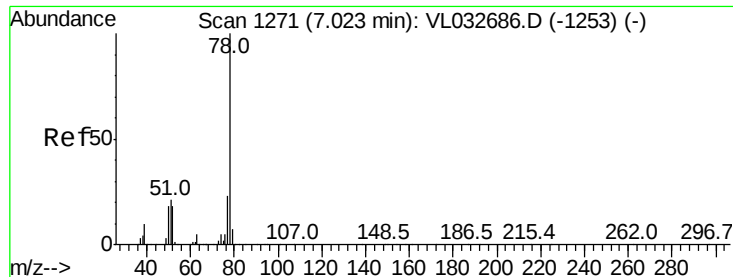
Tgt Ion:114 Resp: 3312126
 Ion Ratio Lower Upper
 114 100
 63 25.8 21.7 32.5
 88 17.7 14.9 22.3



#34
 2-Butanone
 Concen: 0.136 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL032736.D
 Acq: 8 Nov 2018 3:41

Tgt Ion: 43 Resp: 24131
 Ion Ratio Lower Upper
 43 100
 72 21.3 18.6 27.8





#36

Benzene

Concen: 0.296 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

IA-02DL

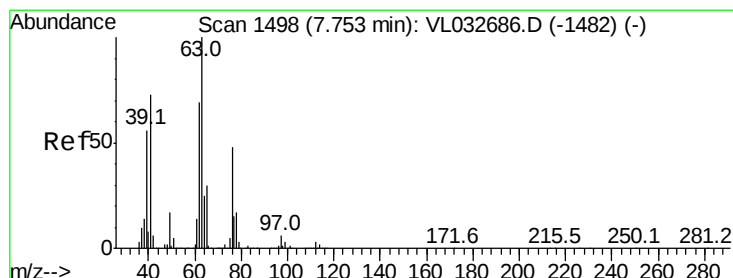
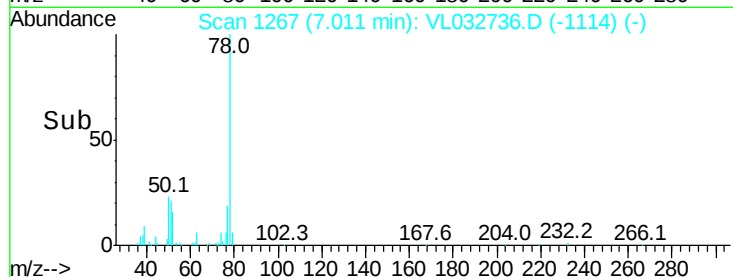
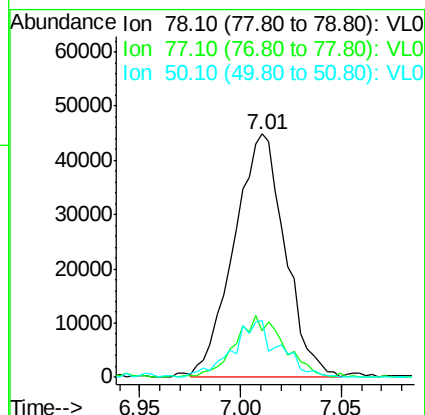
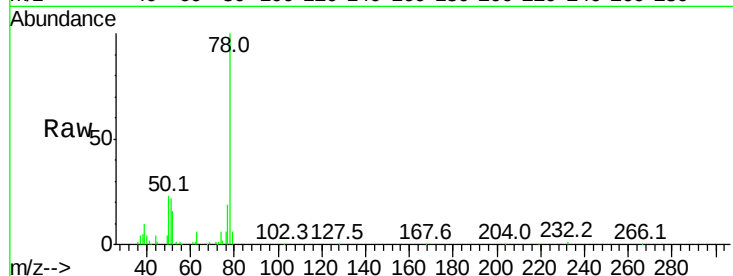
Tgt Ion: 78 Resp: 79598

Ion Ratio Lower Upper

78 100

77 18.7 18.1 27.1

50 23.1 15.1 22.7#



#39

1,2-Dichloropropane

Concen: 8.187 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.46 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

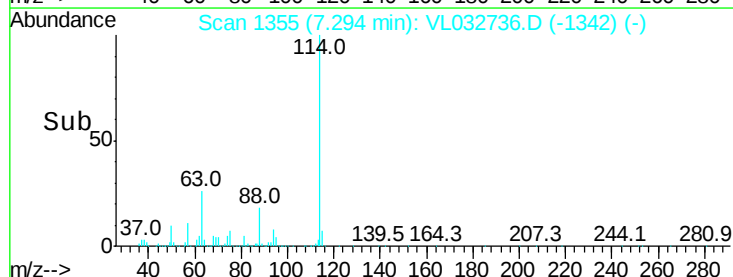
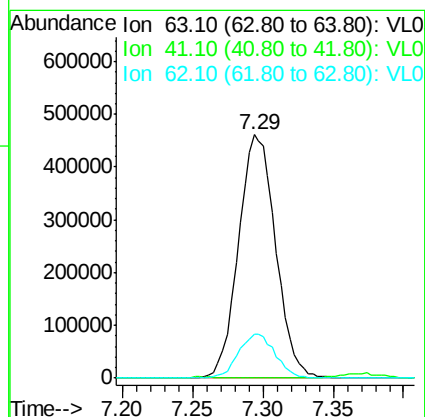
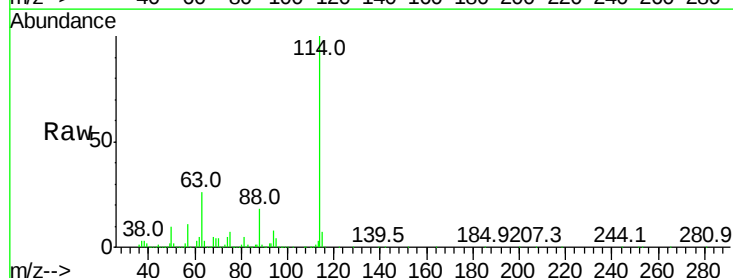
Tgt Ion: 63 Resp: 850309

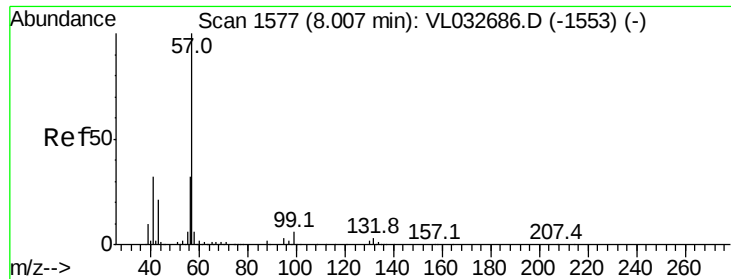
Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

62 17.7 54.4 81.6#

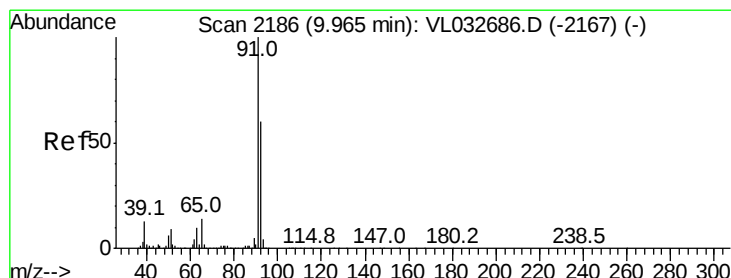
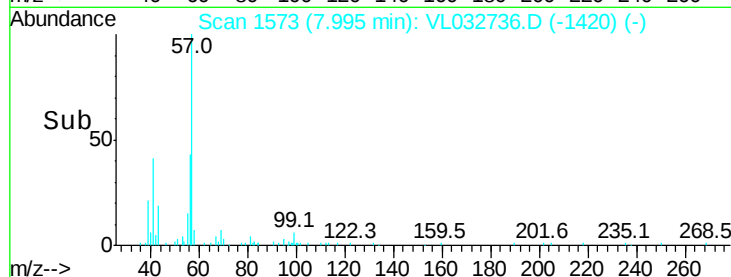
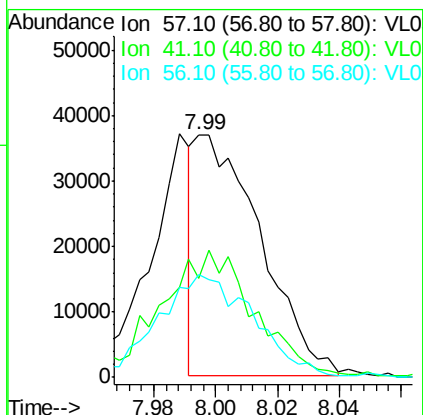
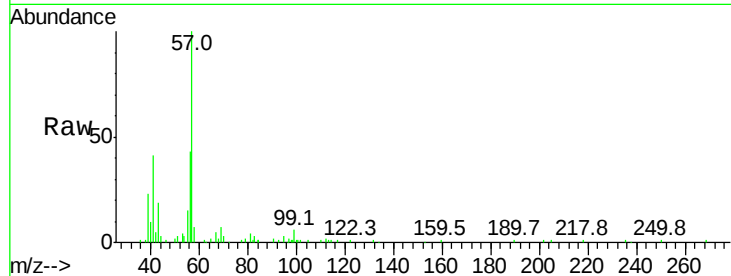




#44
 2,2,4-Trimethylpentane
 Concen: 0.117 ppbv
 RT: 7.99 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: VL032736.D
 Acq: 8 Nov 2018 3:41

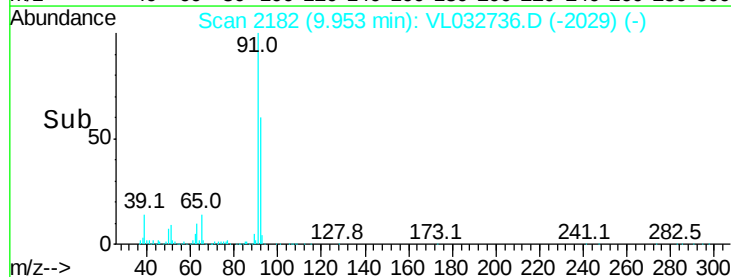
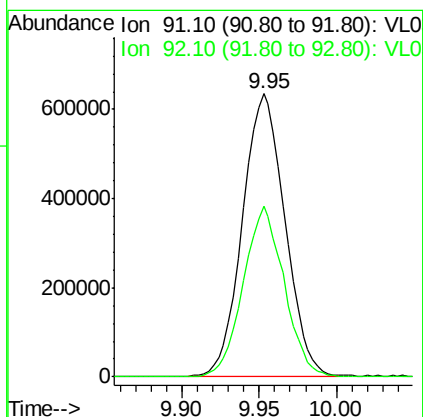
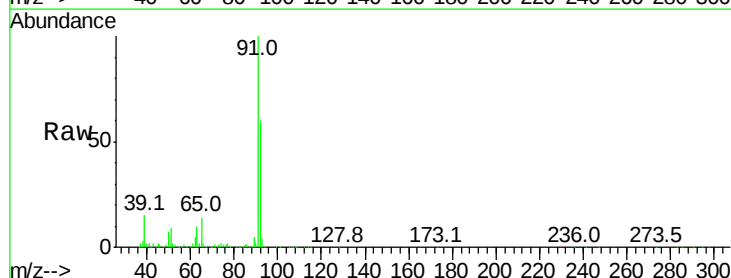
Instrument :
 MSVOA_L
 ClientSampleID :
 IA-02DL

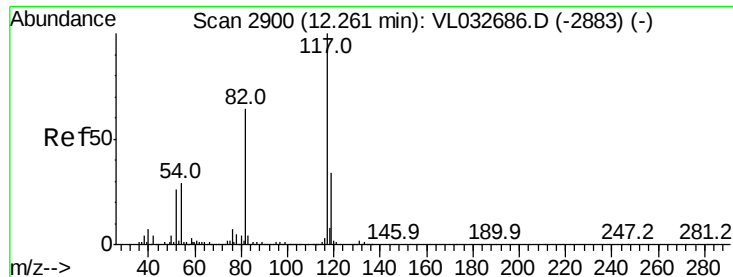
Tgt Ion: 57 Resp: 53772
 Ion Ratio Lower Upper
 57 100
 41 78.3 24.7 37.1#
 56 65.0 25.0 37.4#



#53
 Toluene
 Concen: 3.937 ppbv
 RT: 9.95 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL032736.D
 Acq: 8 Nov 2018 3:41

Tgt Ion: 91 Resp: 1213864
 Ion Ratio Lower Upper
 91 100
 92 58.3 48.4 72.6

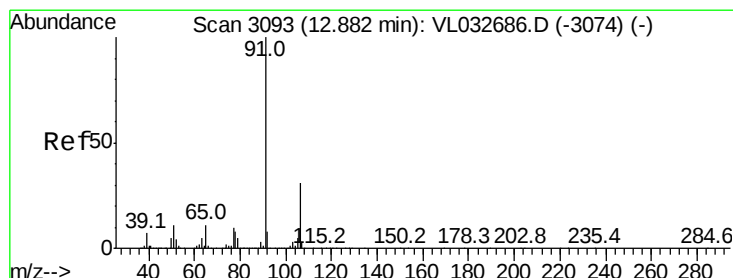
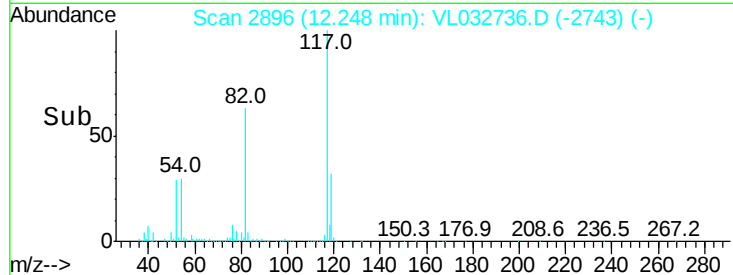
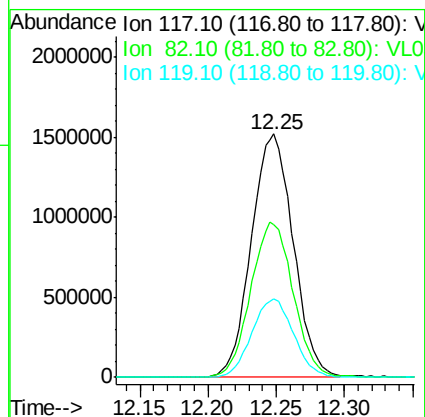
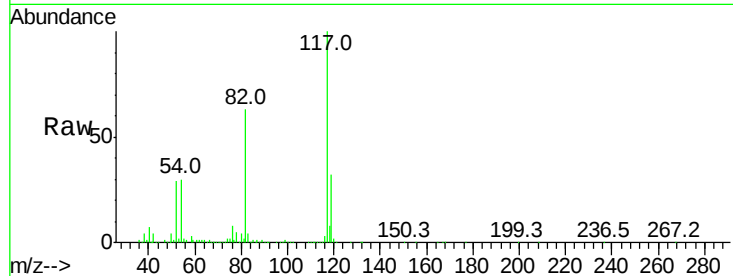




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL032736.D
Acq: 8 Nov 2018 3:41

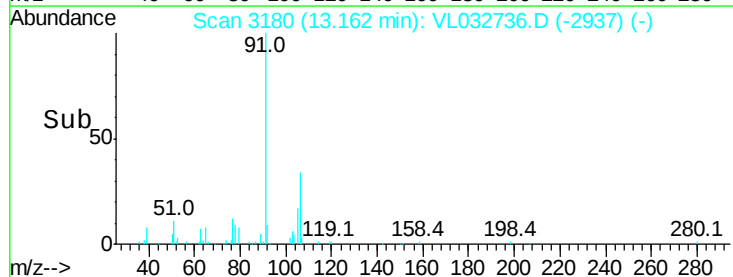
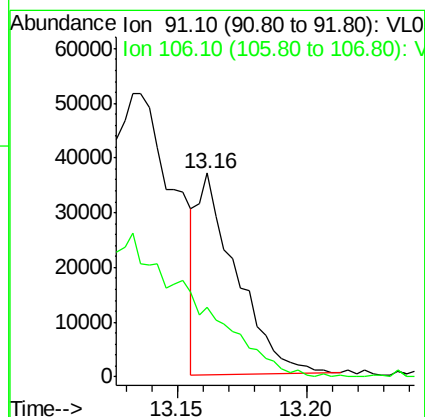
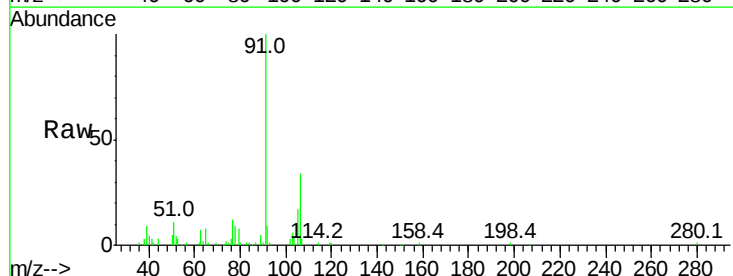
Instrument :
MSVOA_L
ClientSampleId :
IA-02DL

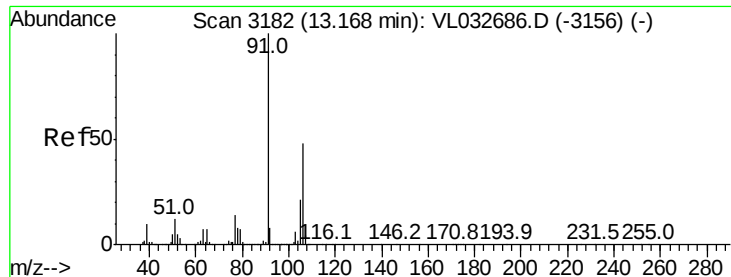
Tgt Ion: 117 Resp: 3235789
Ion Ratio Lower Upper
117 100
82 64.9 52.7 79.1
119 32.5 26.7 40.1



#58
Ethyl Benzene
Concen: 0.103 ppbv
RT: 13.16 min Scan# 3180
Delta R.T. 0.28 min
Lab File: VL032736.D
Acq: 8 Nov 2018 3:41

Tgt Ion: 91 Resp: 38664
Ion Ratio Lower Upper
91 100
106 34.2 24.2 36.2





#59

m/p-Xylene

Concen: 0.116 ppbv

RT: 13.16 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL032736.D

Acq: 8 Nov 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

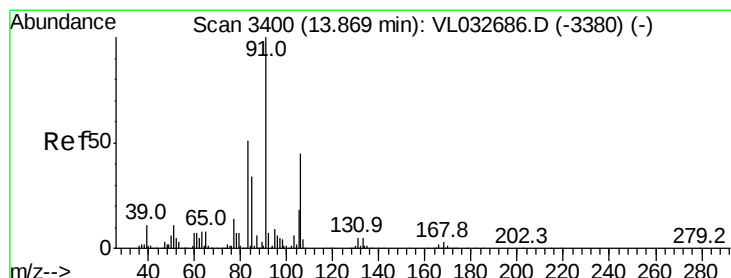
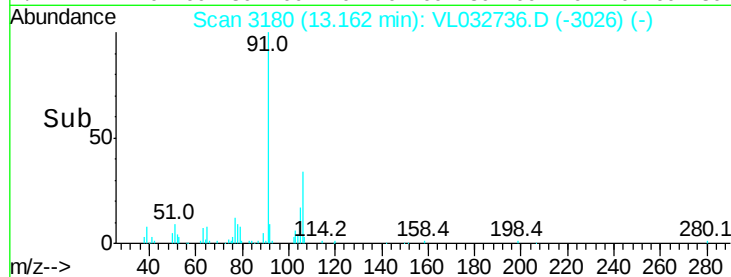
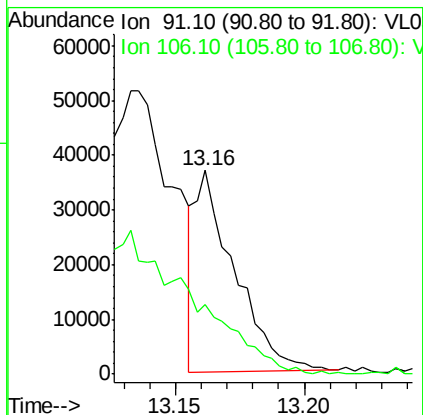
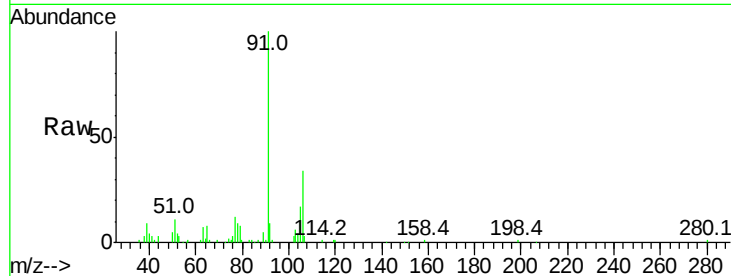
IA-02DL

Tgt Ion: 91 Resp: 38664

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#



#60

o-Xylene

Concen: 0.093 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL032736.D

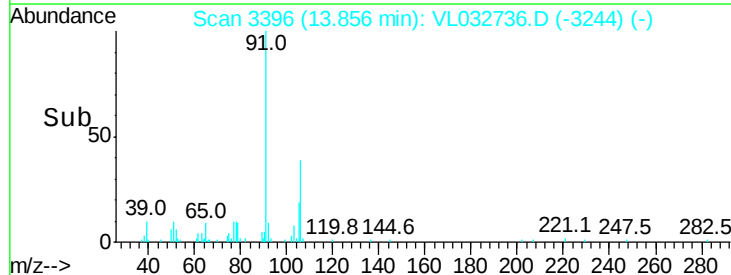
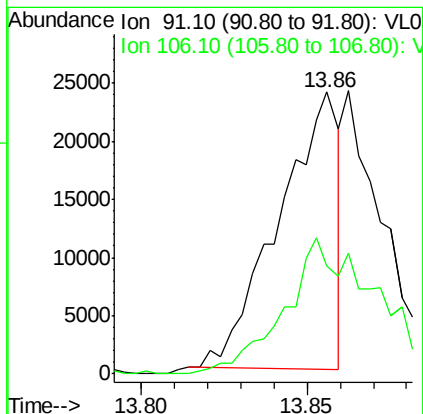
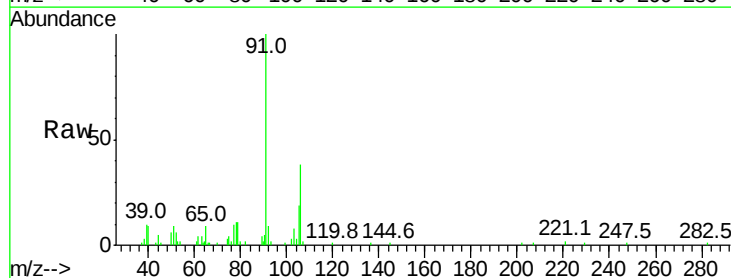
Acq: 8 Nov 2018 3:41

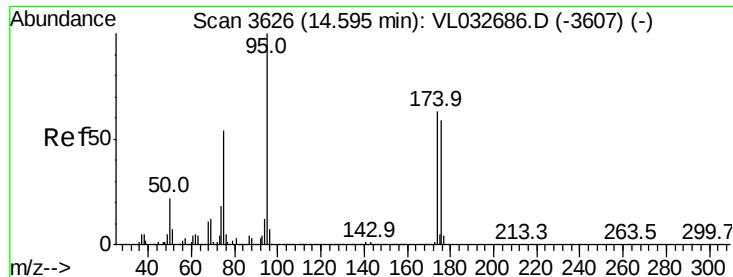
Tgt Ion: 91 Resp: 30157

Ion Ratio Lower Upper

91 100

106 77.1 22.1 66.1#

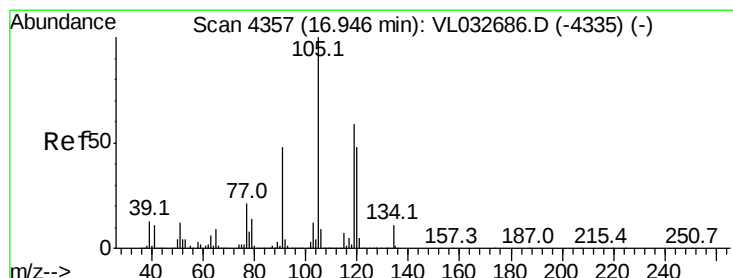
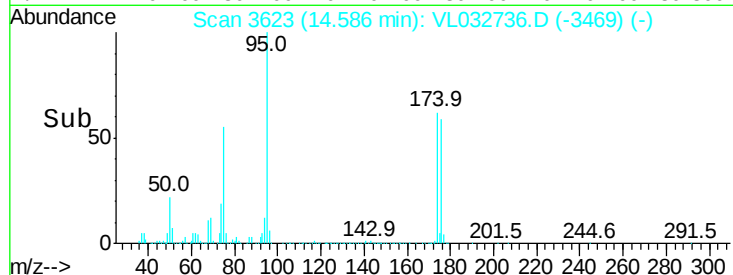
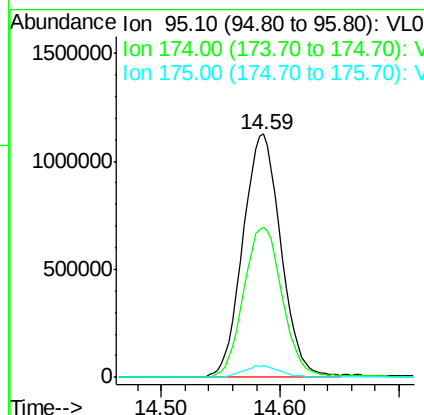
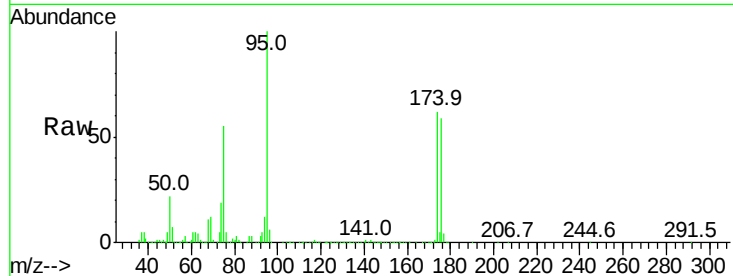




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.348 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL032736.D
 Acq: 8 Nov 2018 3:41

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-02DL

Tgt Ion: 95 Resp: 2493071
 Ion Ratio Lower Upper
 95 100
 174 63.9 46.0 69.0
 175 4.6 3.4 5.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.076 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. -0.01 min
 Lab File: VL032736.D
 Acq: 8 Nov 2018 3:41

Tgt Ion: 105 Resp: 27270
 Ion Ratio Lower Upper
 105 100
 120 48.4 35.8 53.8
 91 8.9 33.2 49.8#
 77 24.3 16.2 24.4

