

Data File : VL032734.D
Acq On : 8 Nov 2018 2:18
Operator : SY/AP
Sample : J5823-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-03DL

Quant Time: Nov 08 10:59:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu 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	5.77	49	1411686	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3589232	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3532360	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2641365 10.04 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.40%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	8429	0.059 ppbv	91
3) Chlorodifluoromethane	3.02	51	4467	0.040 ppbv #	89
9) Propene	3.04	41	11694	0.257 ppbv #	15
13) Ethanol	3.66	45	2210403	170.222 ppbv	96
15) Acetone	3.91	43	251518	1.929 ppbv	92
16) 1,3-Butadiene	3.35	39	22321	0.465 ppbv #	17
17) tert-Butyl alcohol	4.38	59	89574	2.336 ppbv #	100
19) Isopropyl Alcohol	4.04	45	336071	3.620 ppbv	99
20) Methylene Chloride	4.42	84	9821	0.148 ppbv	88
23) Vinyl Acetate	5.15	43	14638	0.063 ppbv #	13
25) Ethyl Acetate	5.79	43	35883	0.120 ppbv #	96
26) Hexane	5.79	57	31021	0.219 ppbv #	54
34) 2-Butanone	5.34	43	32253	0.168 ppbv	98
36) Benzene	7.01	78	93082	0.319 ppbv	94
39) 1,2-Dichloropropane	7.30	63	896142	7.962 ppbv #	26
44) 2,2,4-Trimethylpentane	8.00	57	109346	0.220 ppbv #	83
50) 4-Methyl-2-Pentanone	8.89	43	9005	0.032 ppbv #	54
53) Toluene	9.95	91	689047	2.062 ppbv	98
58) Ethyl Benzene	12.87	91	28934	0.071 ppbv	95
59) m/p-Xylene	13.17	91	28373	0.078 ppbv #	31
60) o-Xylene	13.86	91	34665	0.098 ppbv #	32
74) 1,2,4-Trimethylbenzene	16.94	105	36328	0.093 ppbv #	62

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

Data File : VL032734.D

Acq On : 8 Nov 2018 2:18

Operator : SY/AP

Sample : J5823-04DL 10X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-03DL

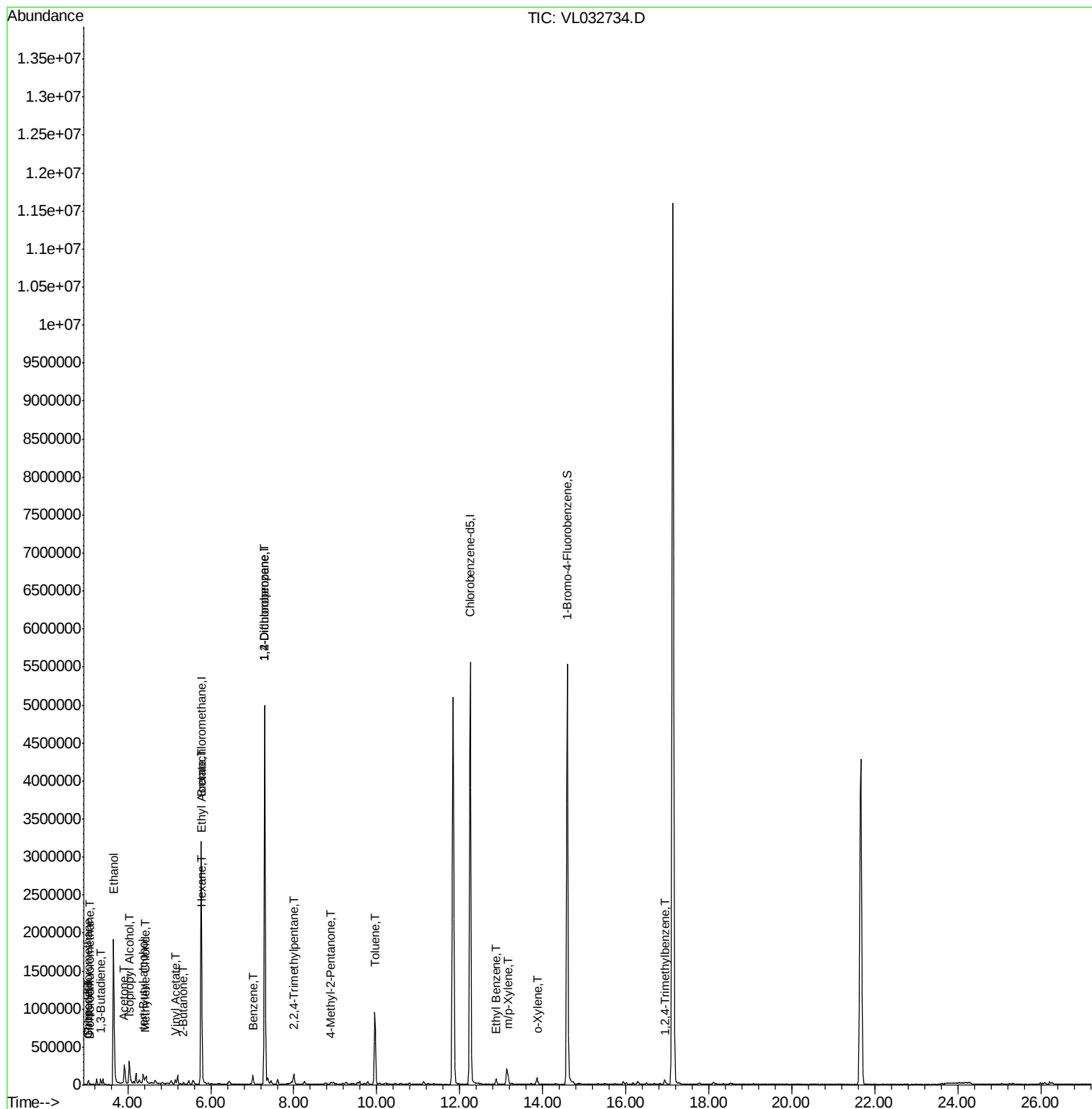
Quant Time: Nov 08 10:59:28 2018

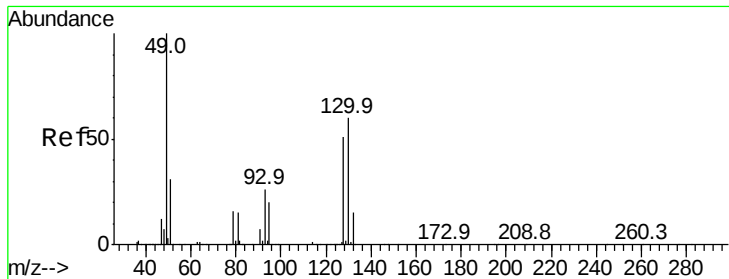
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018

QLast Update : Thu Oct 25 05:15:43 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

SV-03DL

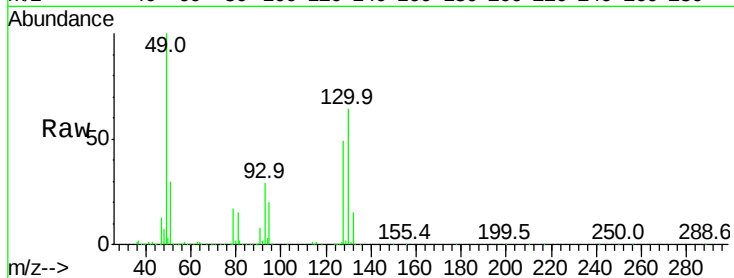
Tgt Ion: 49 Resp: 1411686

Ion Ratio Lower Upper

49 100

128 51.3 22.3 66.8

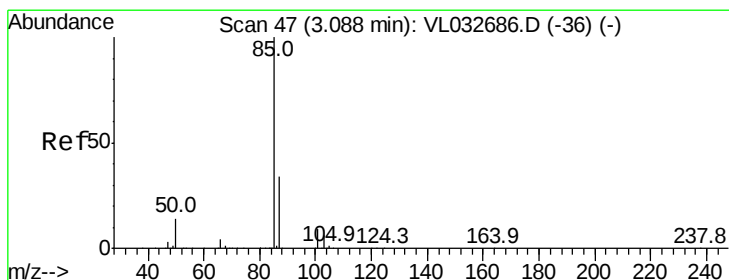
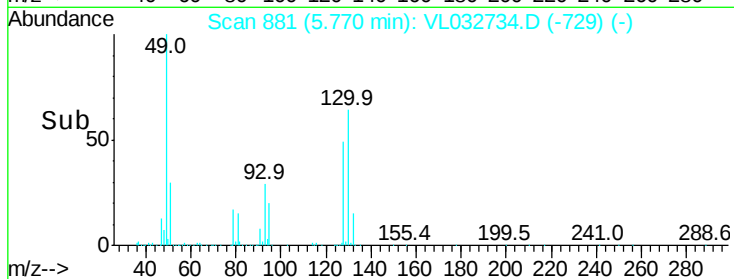
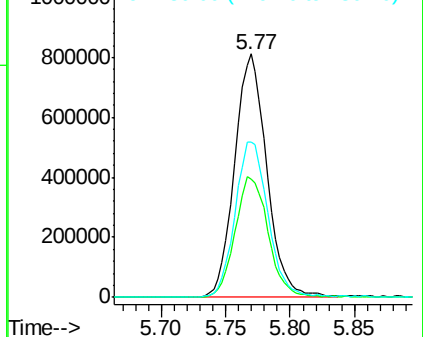
130 66.3 28.4 85.3



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: 0.059 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032734.D

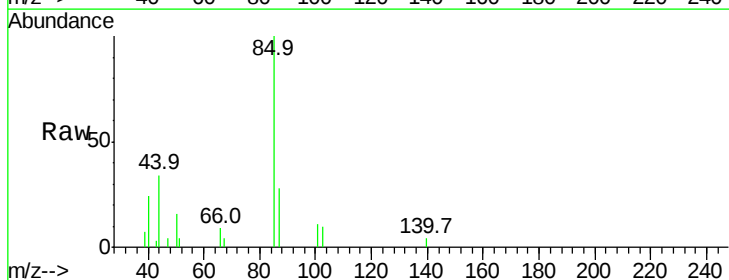
Acq: 8 Nov 2018 2:18

Tgt Ion: 85 Resp: 8429

Ion Ratio Lower Upper

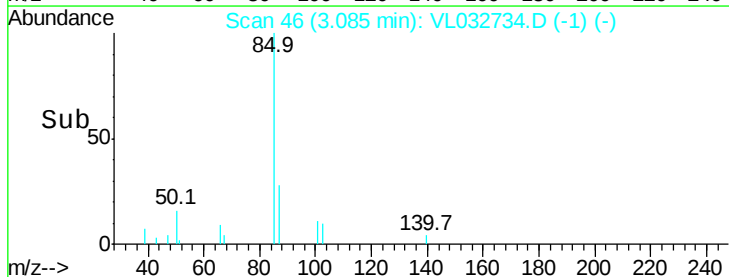
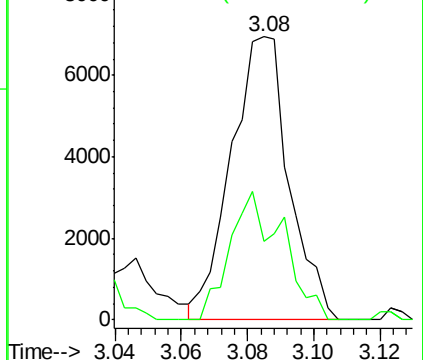
85 100

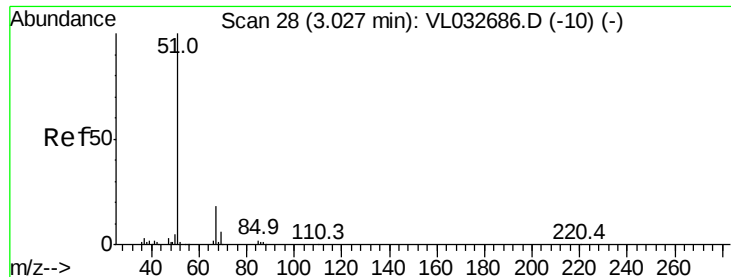
87 27.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

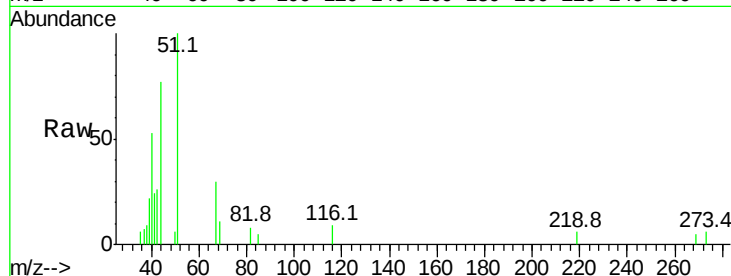
SV-03DL

Tgt Ion: 51 Resp: 4467

Ion Ratio Lower Upper

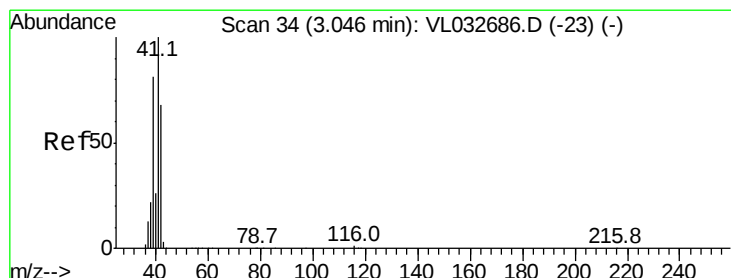
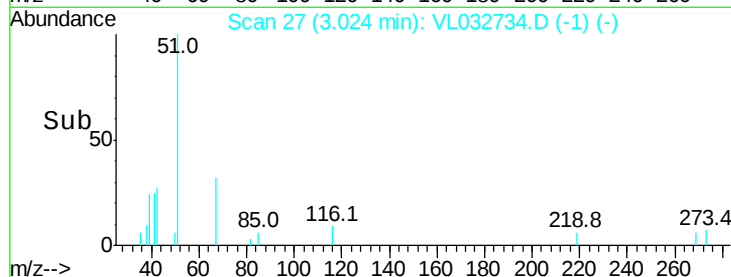
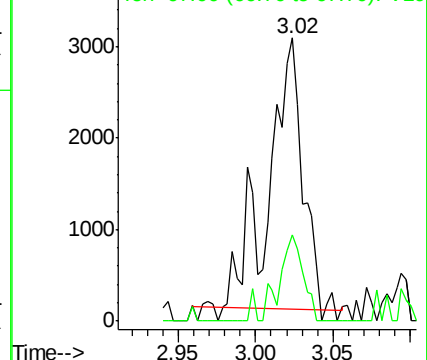
51 100

67 23.8 15.2 22.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.257 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032734.D

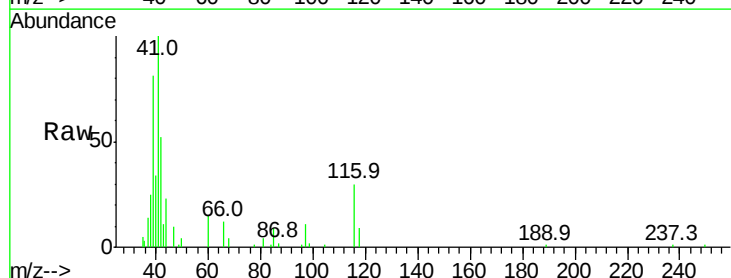
Acq: 8 Nov 2018 2:18

Tgt Ion: 41 Resp: 11694

Ion Ratio Lower Upper

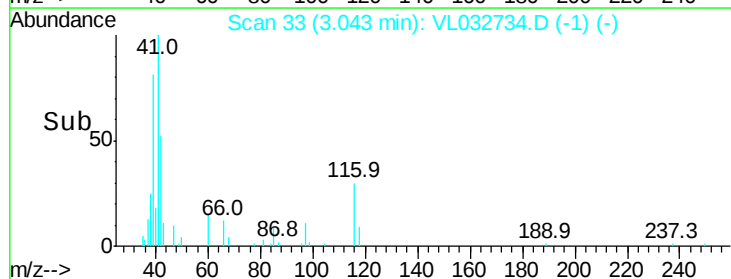
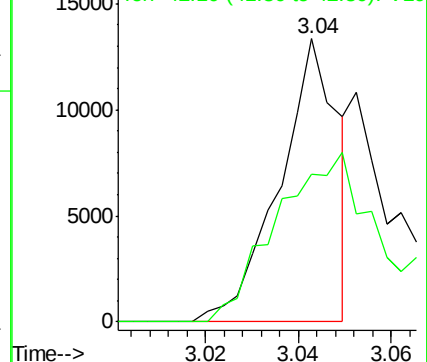
41 100

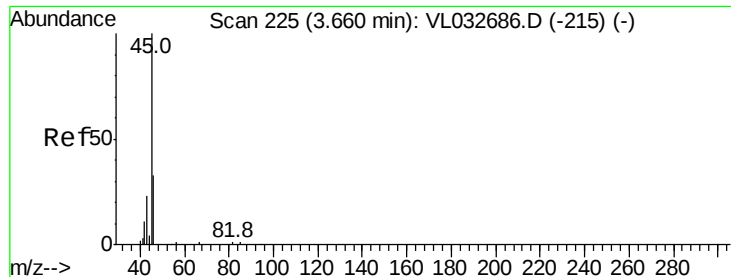
42 0.0 55.4 83.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 170.222 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

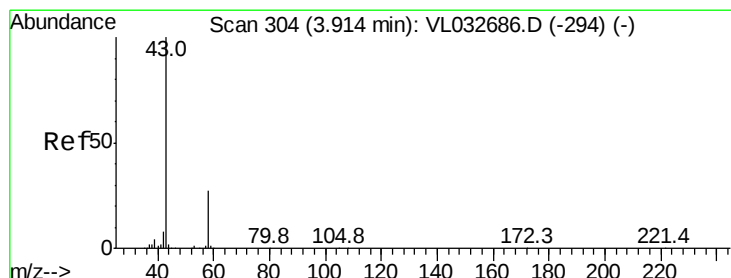
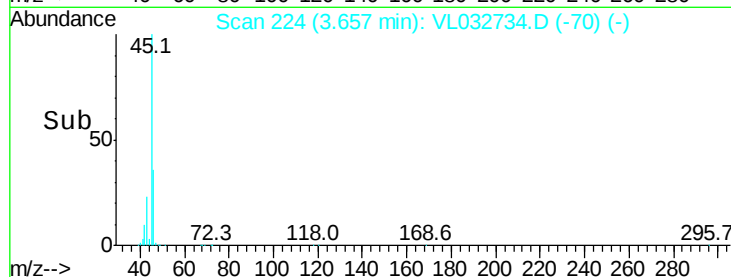
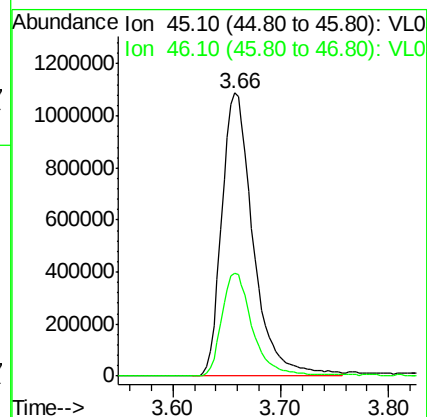
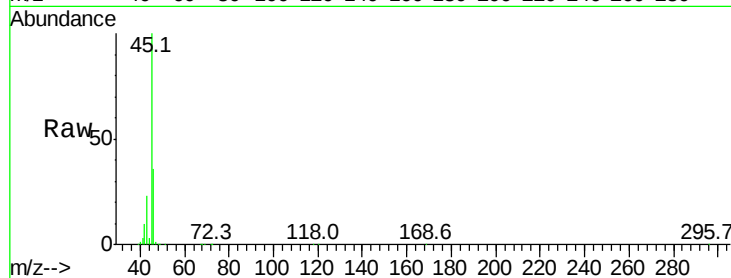
SV-03DL

Tgt Ion: 45 Resp: 2210403

Ion Ratio Lower Upper

45 100

46 36.3 15.4 61.8



#15

Acetone

Concen: 1.929 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.00 min

Lab File: VL032734.D

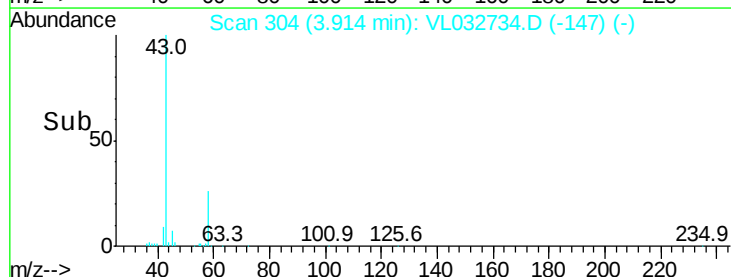
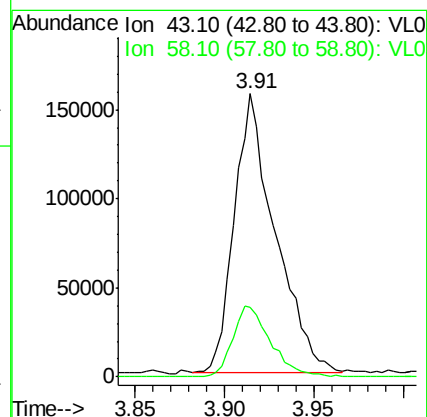
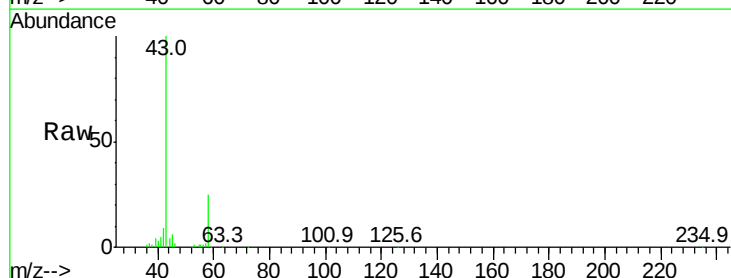
Acq: 8 Nov 2018 2:18

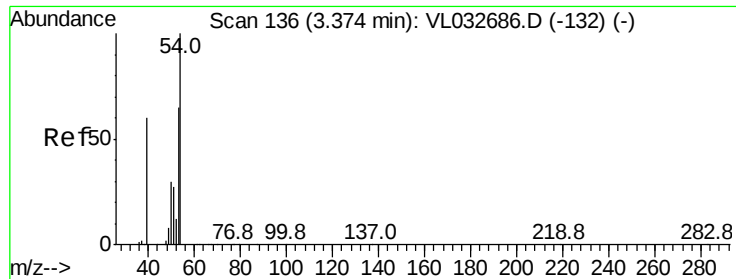
Tgt Ion: 43 Resp: 251518

Ion Ratio Lower Upper

43 100

58 23.5 22.1 33.1

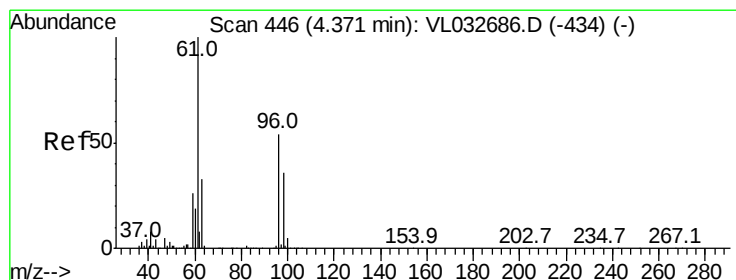
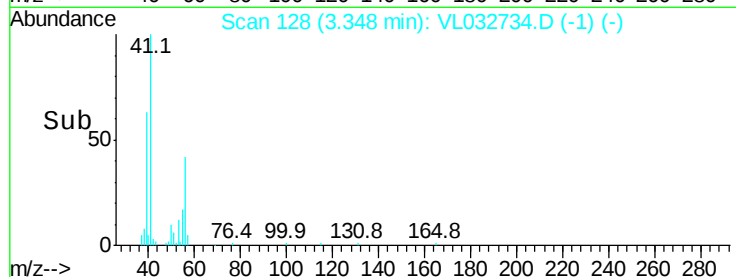
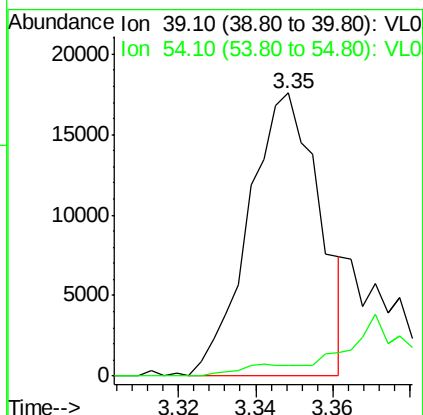
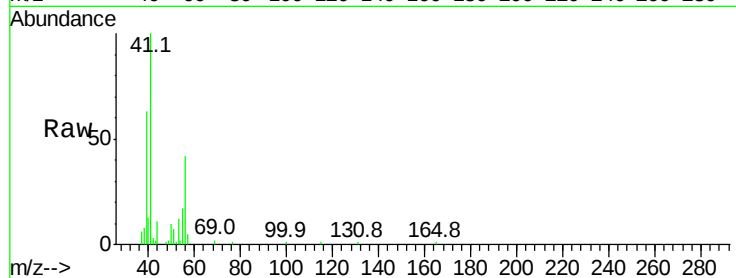




#16
 1,3-Butadiene
 Concen: 0.465 ppbv
 RT: 3.35 min Scan# 128
 Delta R.T. -0.03 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

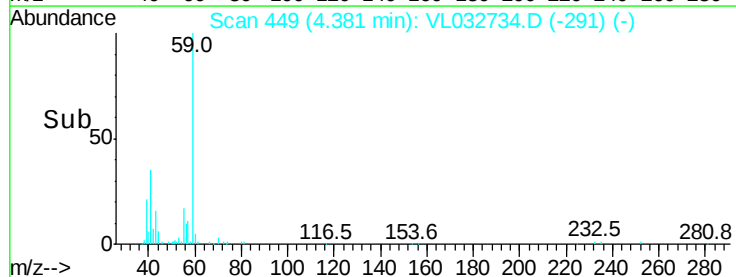
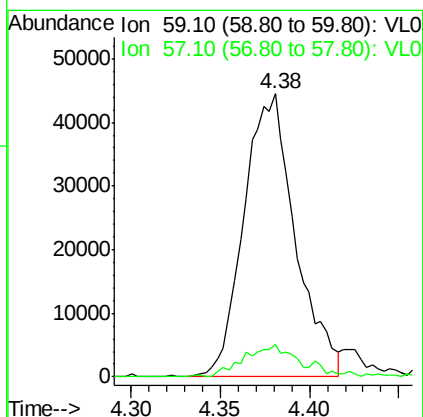
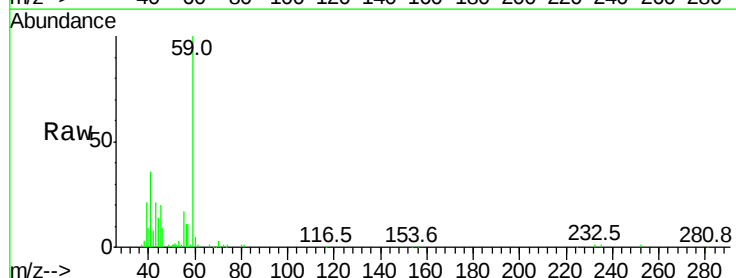
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

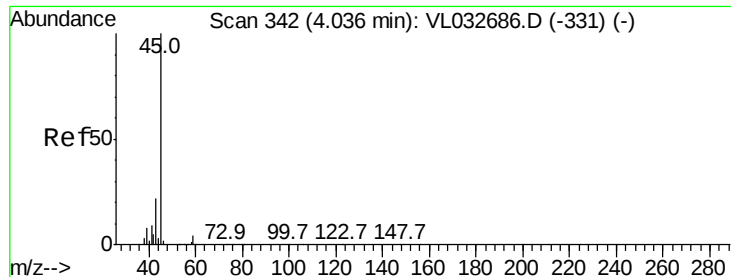
Tgt Ion: 39 Resp: 22321
 Ion Ratio Lower Upper
 39 100
 54 24.2 90.4 135.6#



#17
 tert-Butyl alcohol
 Concen: 2.336 ppbv
 RT: 4.38 min Scan# 449
 Delta R.T. 0.01 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

Tgt Ion: 59 Resp: 89574
 Ion Ratio Lower Upper
 59 100
 57 13.3 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 3.620 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

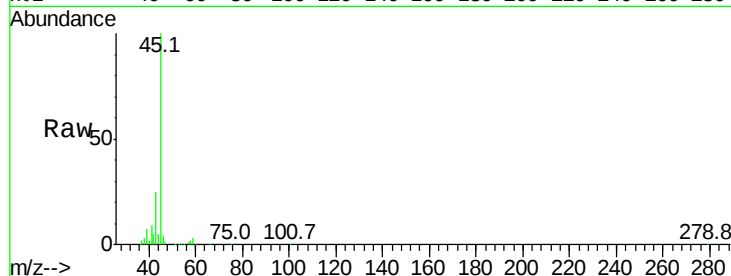
SV-03DL

Tgt Ion: 45 Resp: 336071

Ion Ratio Lower Upper

45 100

58 2.2 2.0 3.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

200000

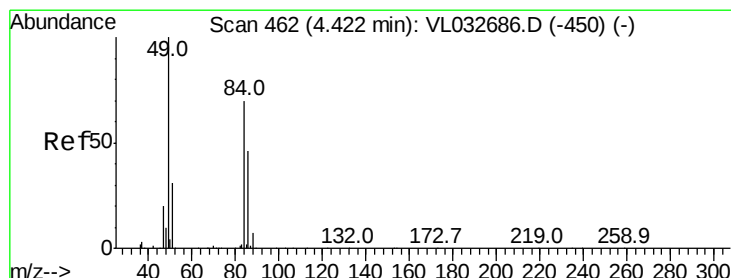
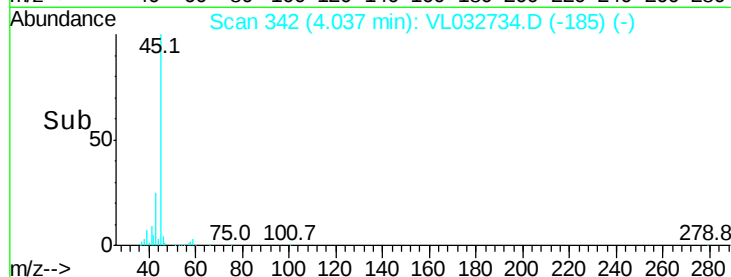
150000

100000

50000

0

Time--> 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 0.148 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Tgt Ion: 84 Resp: 9821

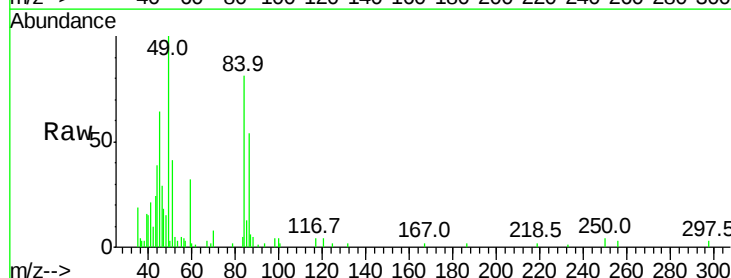
Ion Ratio Lower Upper

84 100

49 121.6 113.5 170.3

51 44.8 34.8 52.2

86 65.3 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

20000

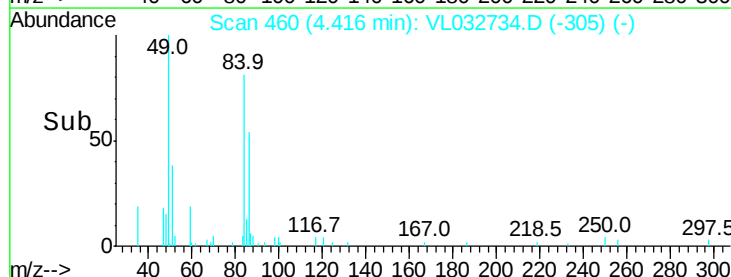
15000

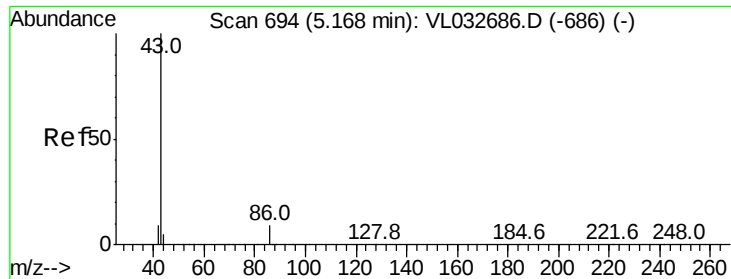
10000

5000

0

Time--> 4.38 4.40 4.42

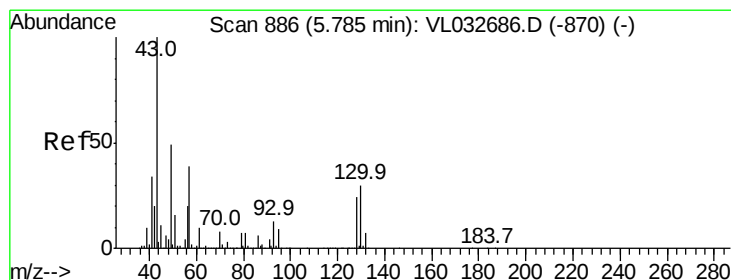
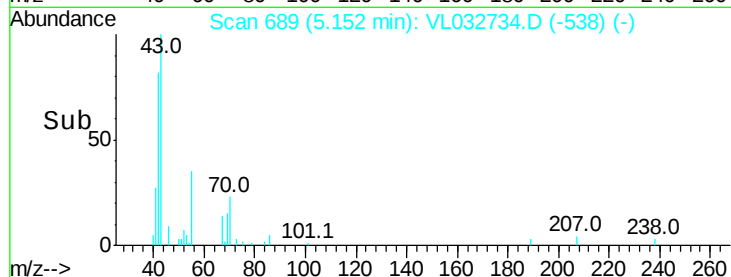
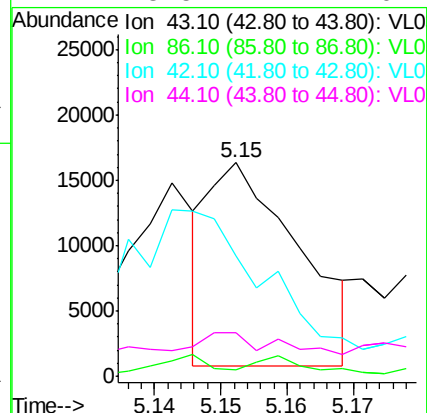
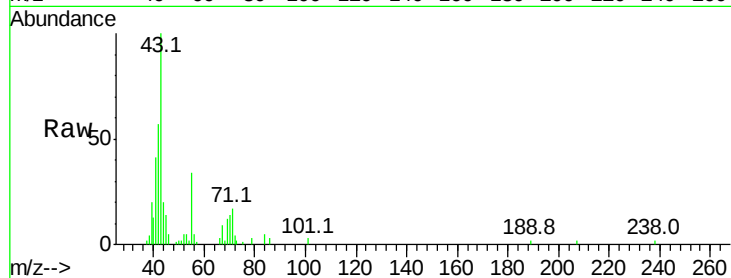




#23
 Vinyl Acetate
 Concen: 0.063 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.02 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

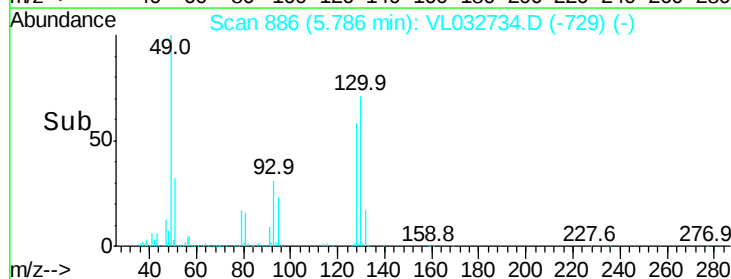
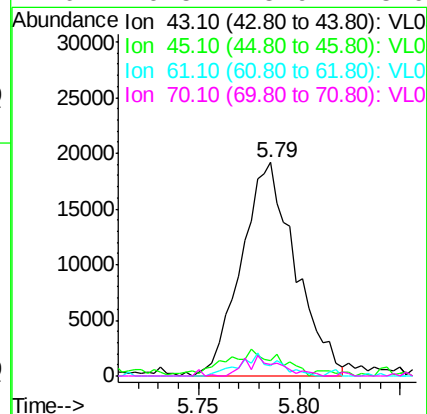
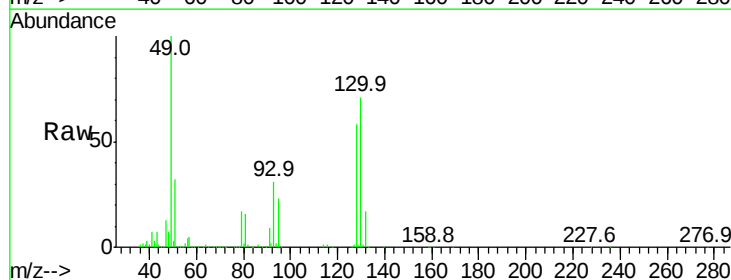
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

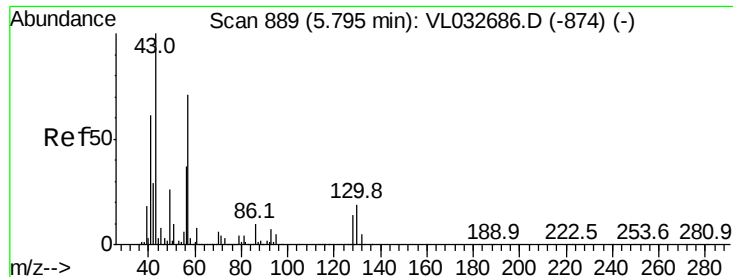
Tgt Ion:	43	Resp:	14638
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.1	9.1#
42	69.7	7.4	11.2#
44	18.5	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 0.120 ppbv
 RT: 5.79 min Scan# 886
 Delta R.T. 0.01 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

Tgt Ion:	43	Resp:	35883
Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.0	12.0
61	7.7	8.0	12.0#
70	6.5	5.9	8.9





#26

Hexane

Concen: 0.219 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

SV-03DL

Tgt Ion: 57 Resp: 31021

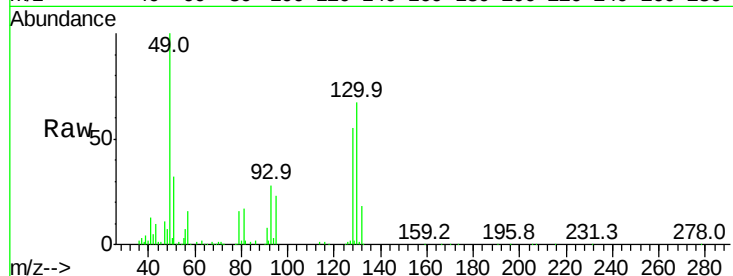
Ion Ratio Lower Upper

57 100

41 107.8 67.4 101.0#

43 116.3 171.9 257.9#

56 63.7 42.6 63.8

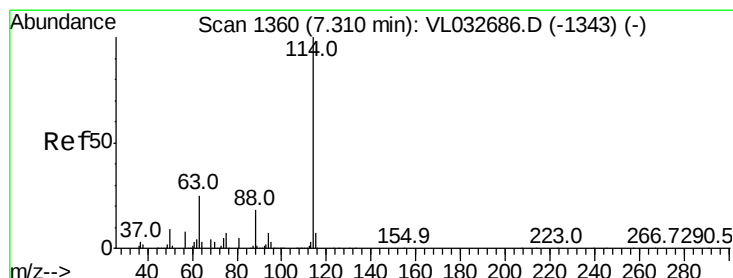
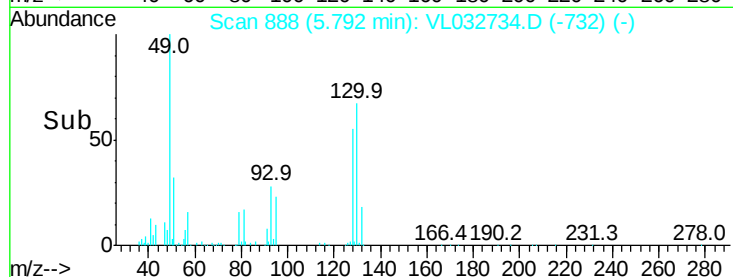
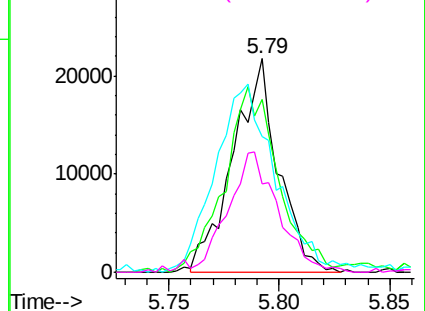


Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1357

Delta R.T. -0.01 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

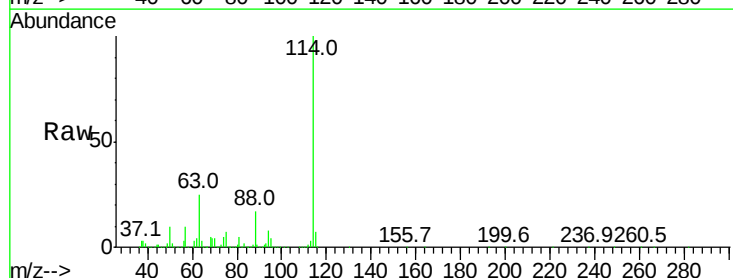
Tgt Ion: 114 Resp: 3589232

Ion Ratio Lower Upper

114 100

63 25.2 21.7 32.5

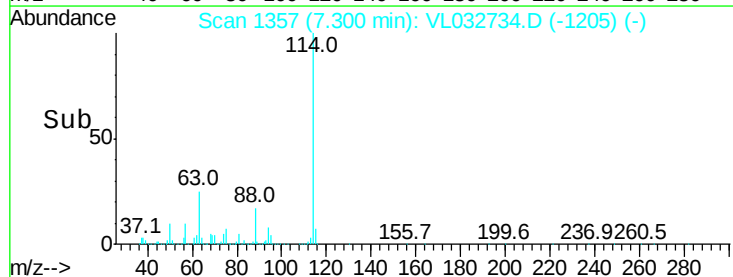
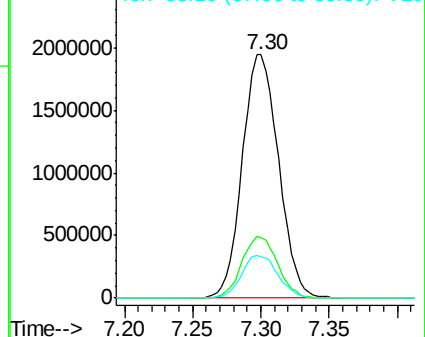
88 17.8 14.9 22.3

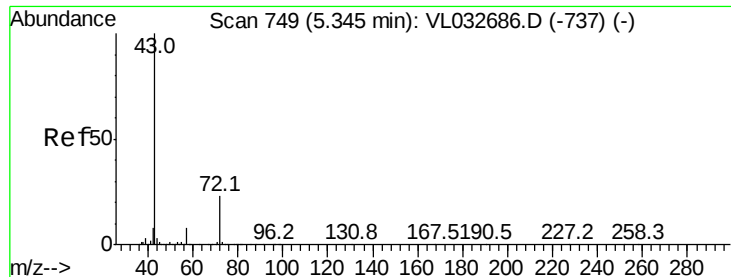


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

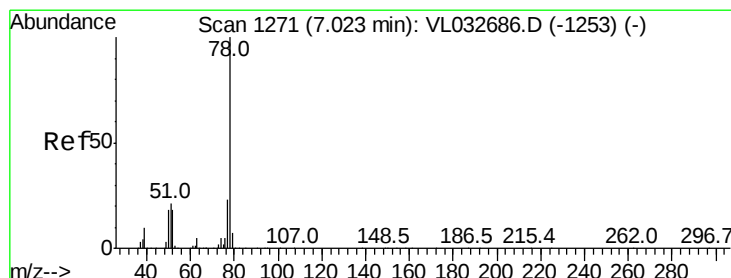
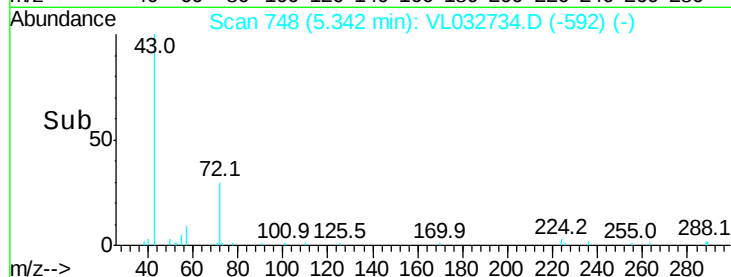
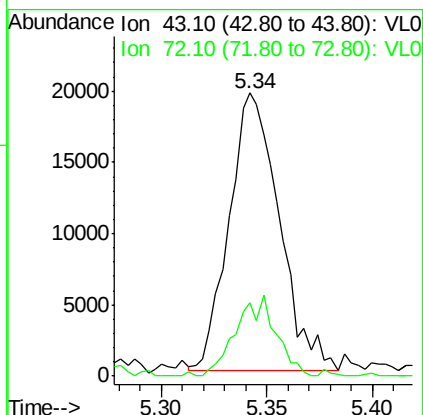
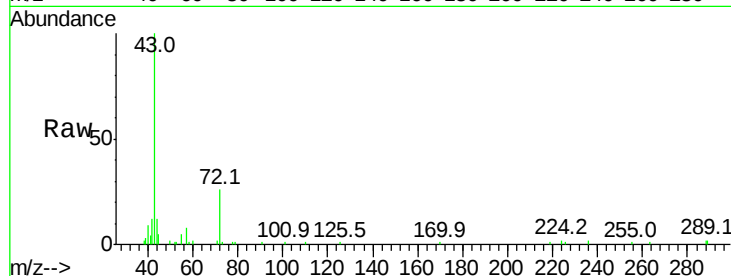




#34
2-Butanone
Concen: 0.168 ppbv
RT: 5.34 min Scan# 748
Delta R.T. 0.00 min
Lab File: VL032734.D
Acq: 8 Nov 2018 2:18

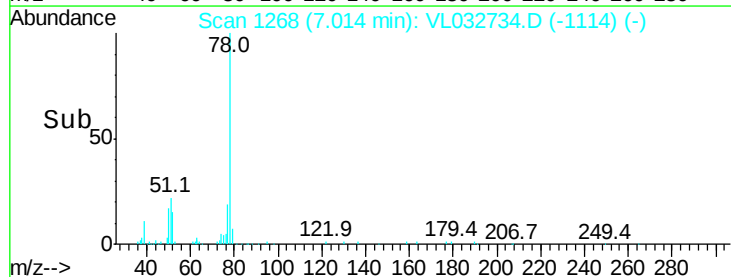
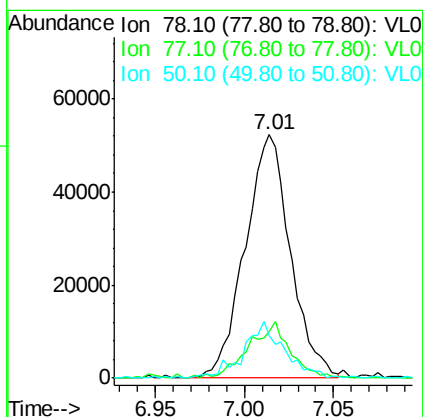
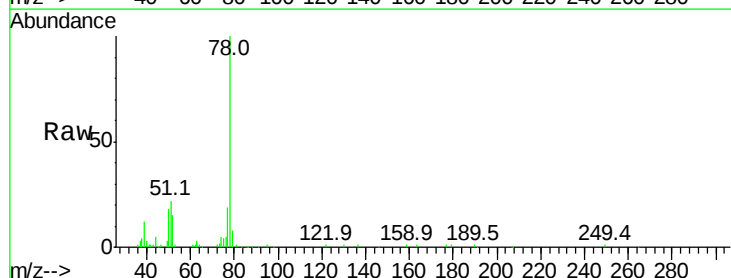
Instrument :
MSVOA_L
ClientSampleId :
SV-03DL

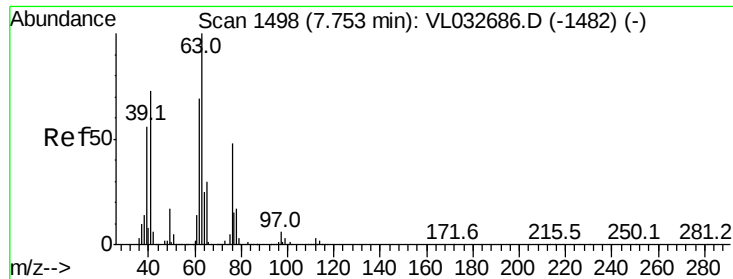
Tgt Ion: 43 Resp: 32253
Ion Ratio Lower Upper
43 100
72 24.0 18.6 27.8



#36
Benzene
Concen: 0.319 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VL032734.D
Acq: 8 Nov 2018 2:18

Tgt Ion: 78 Resp: 93082
Ion Ratio Lower Upper
78 100
77 18.5 18.1 27.1
50 17.6 15.1 22.7





#39

1,2-Dichloropropane

Concen: 7.962 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.46 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

SV-03DL

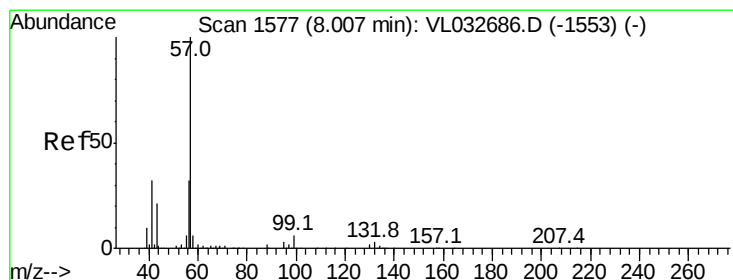
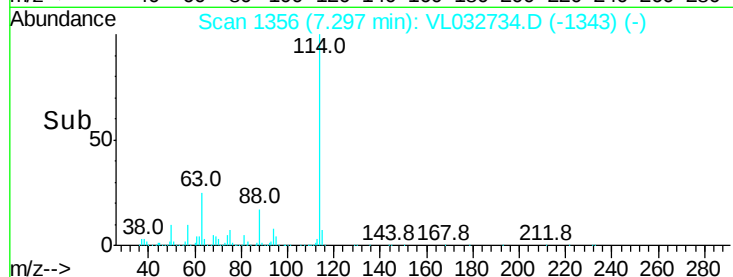
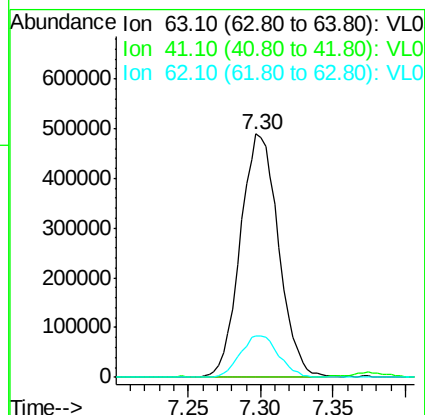
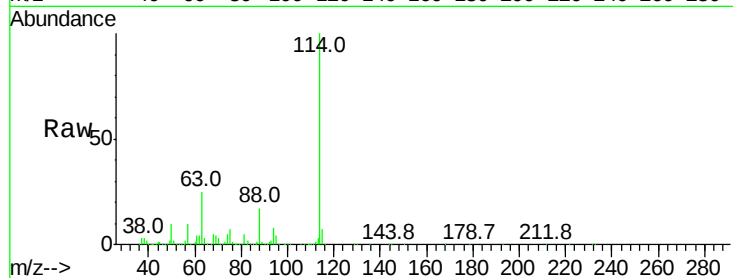
Tgt Ion: 63 Resp: 896142

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

62 17.1 54.4 81.6#



#44

2,2,4-Trimethylpentane

Concen: 0.220 ppbv

RT: 8.00 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

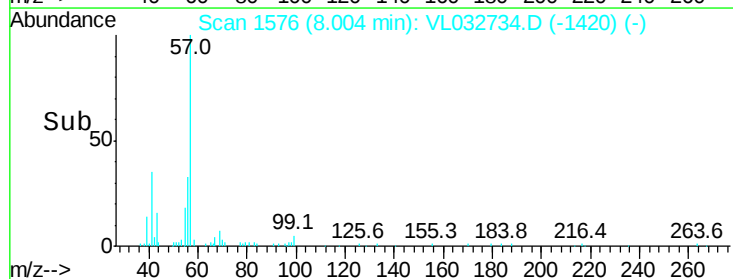
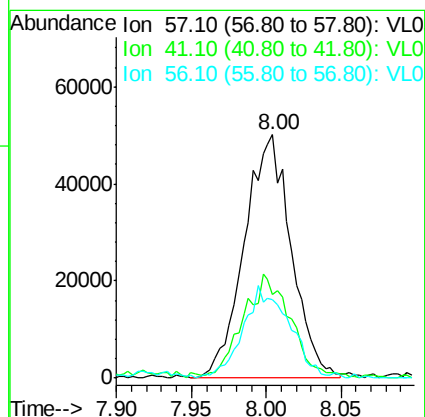
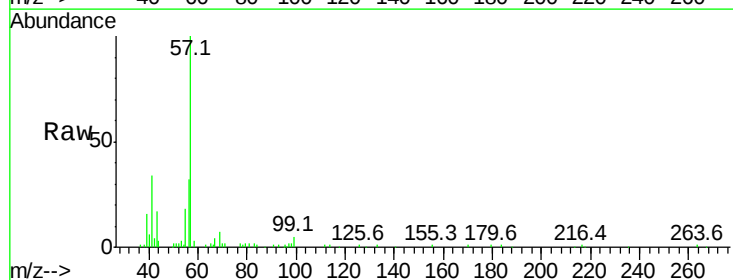
Tgt Ion: 57 Resp: 109346

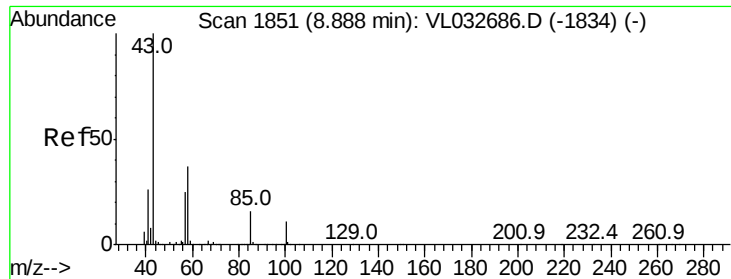
Ion Ratio Lower Upper

57 100

41 43.4 24.7 37.1#

56 37.6 25.0 37.4#

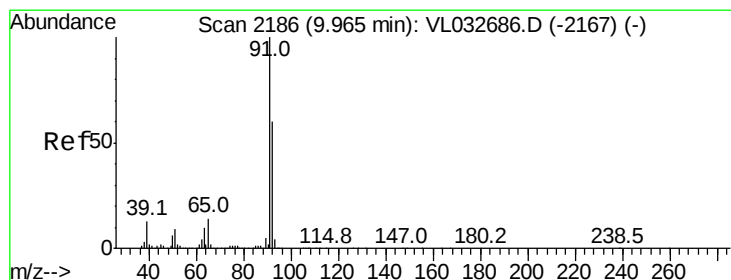
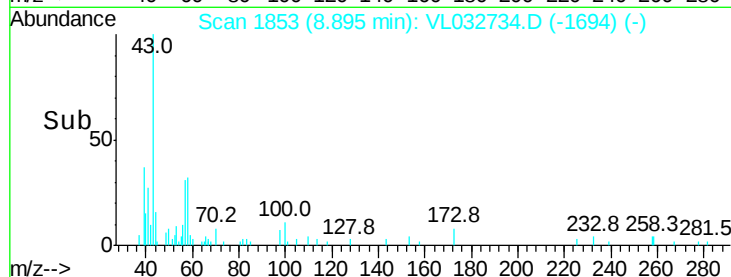
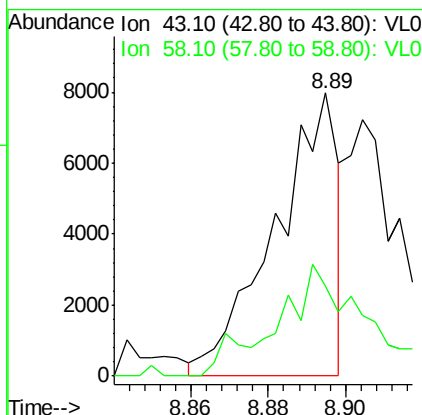
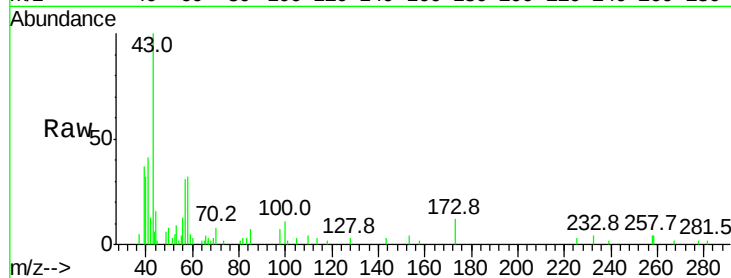




#50
 4-Methyl-2-Pentanone
 Concen: 0.032 ppbv
 RT: 8.89 min Scan# 1853
 Delta R.T. 0.01 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

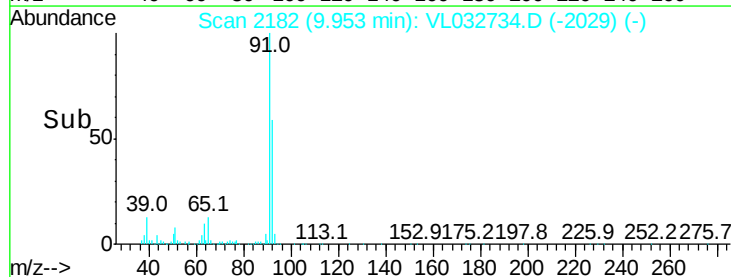
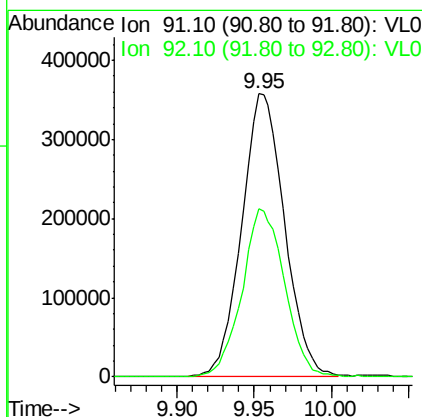
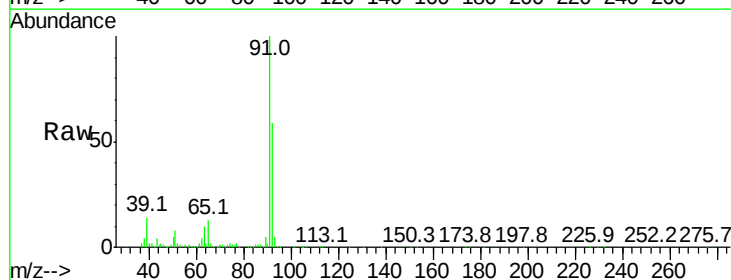
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

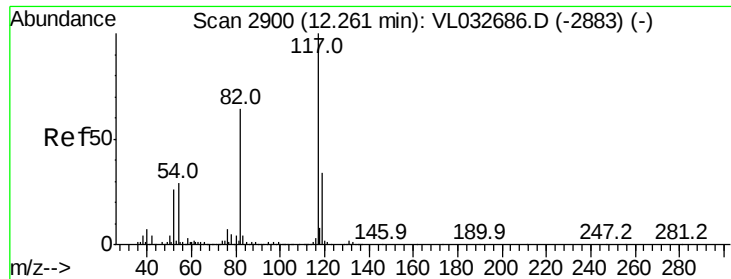
Tgt Ion: 43 Resp: 9005
 Ion Ratio Lower Upper
 43 100
 58 64.4 29.7 44.5#



#53
 Toluene
 Concen: 2.062 ppbv
 RT: 9.95 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

Tgt Ion: 91 Resp: 689047
 Ion Ratio Lower Upper
 91 100
 92 59.3 48.4 72.6

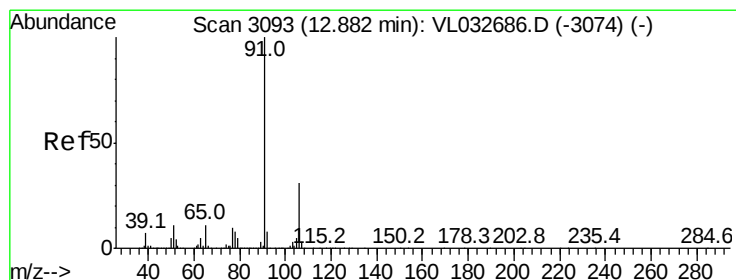
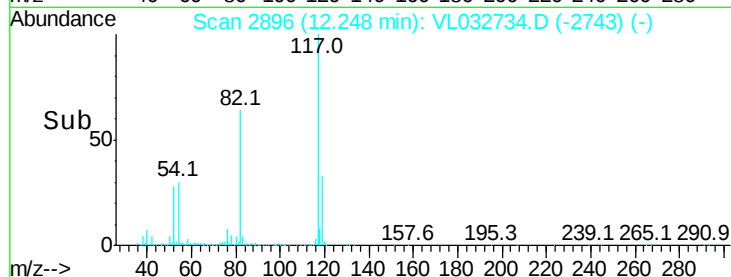
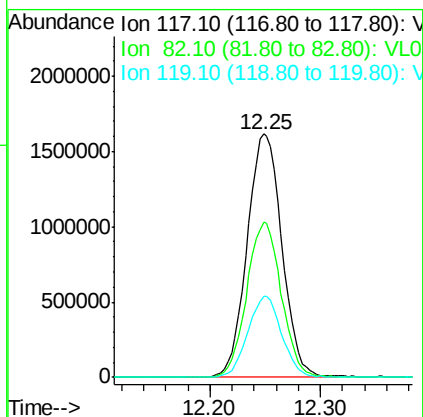
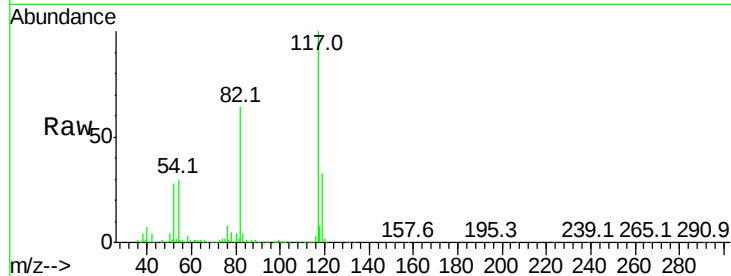




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL032734.D
Acq: 8 Nov 2018 2:18

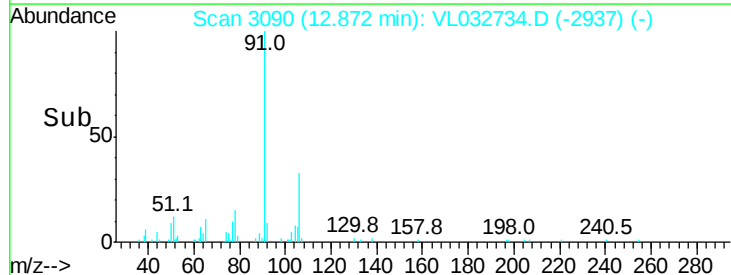
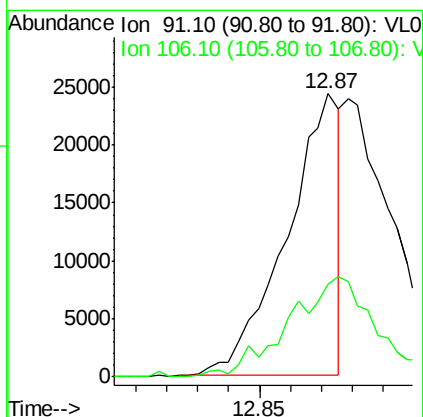
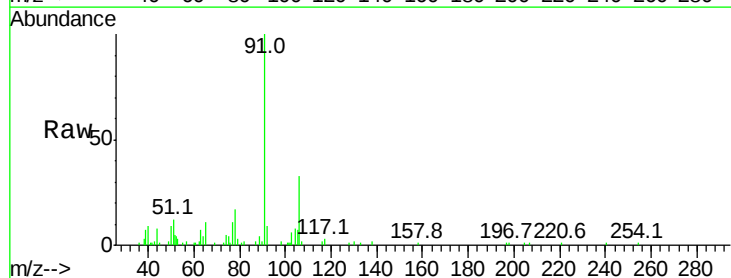
Instrument :
MSVOA_L
ClientSampleId :
SV-03DL

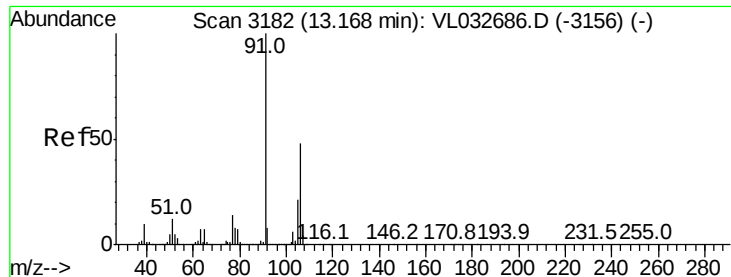
Tgt Ion:117 Resp: 3532360
Ion Ratio Lower Upper
117 100
82 63.6 52.7 79.1
119 32.5 26.7 40.1



#58
Ethyl Benzene
Concen: 0.071 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.01 min
Lab File: VL032734.D
Acq: 8 Nov 2018 2:18

Tgt Ion: 91 Resp: 28934
Ion Ratio Lower Upper
91 100
106 32.9 24.2 36.2





#59

m/p-Xylene

Concen: 0.078 ppbv

RT: 13.17 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL032734.D

Acq: 8 Nov 2018 2:18

Instrument :

MSVOA_L

ClientSampleId :

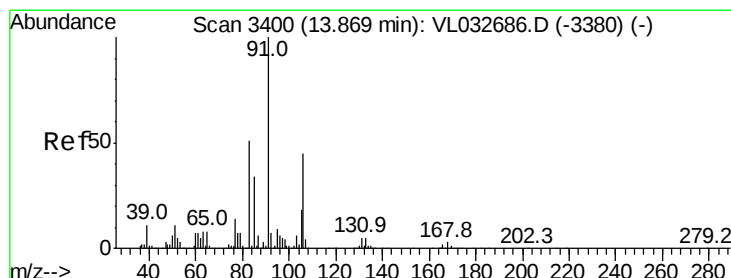
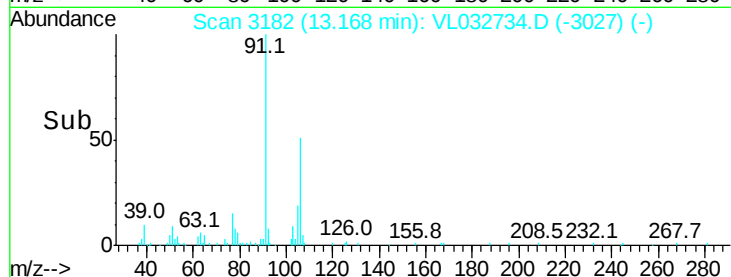
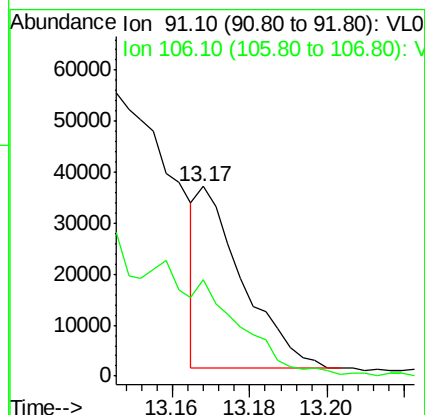
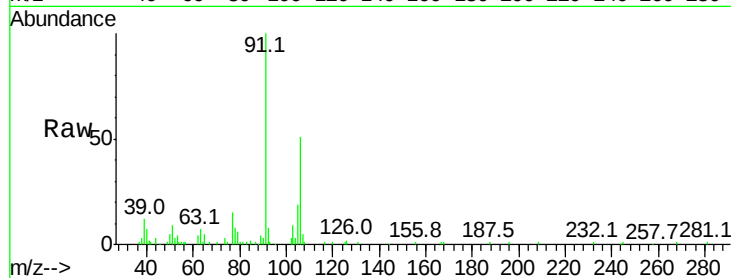
SV-03DL

Tgt Ion: 91 Resp: 28373

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#



#60

o-Xylene

Concen: 0.098 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL032734.D

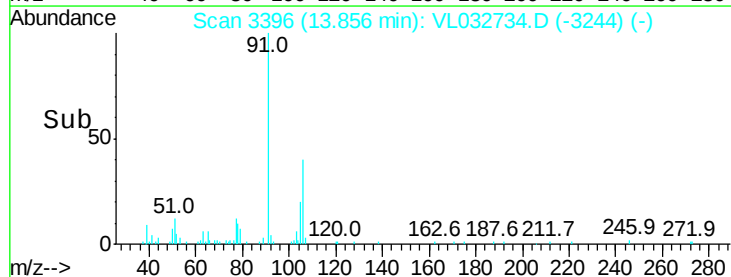
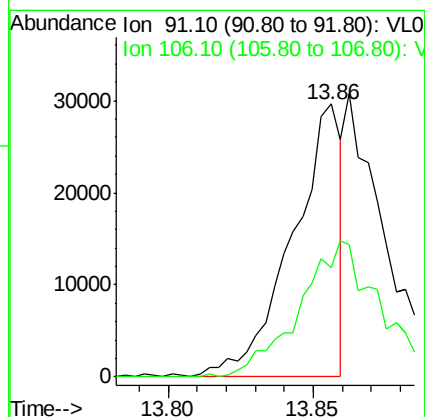
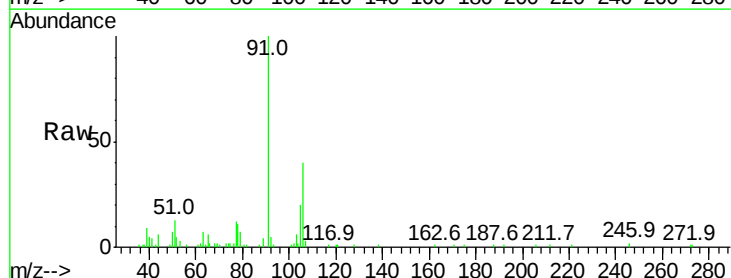
Acq: 8 Nov 2018 2:18

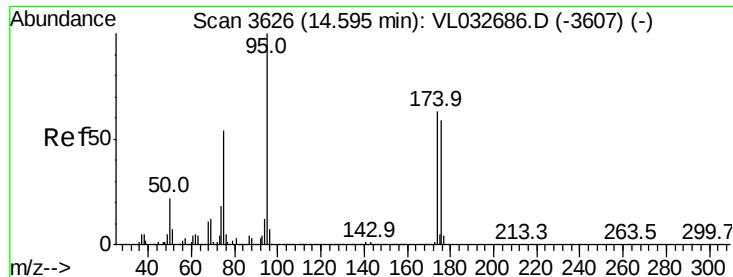
Tgt Ion: 91 Resp: 34665

Ion Ratio Lower Upper

91 100

106 0.0 22.1 66.1#

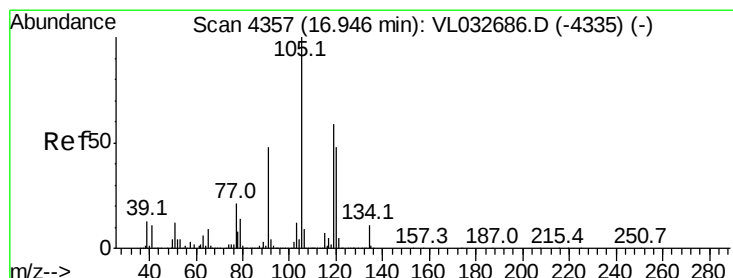
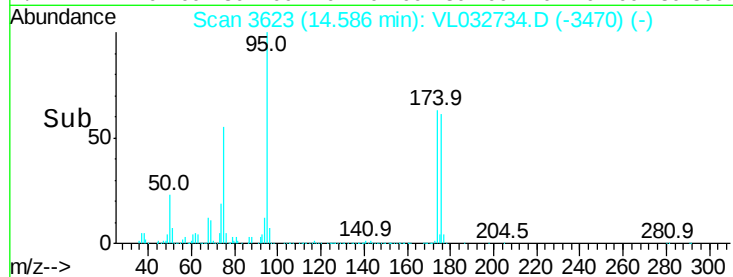
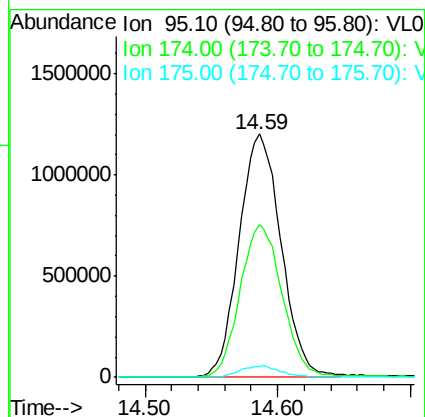
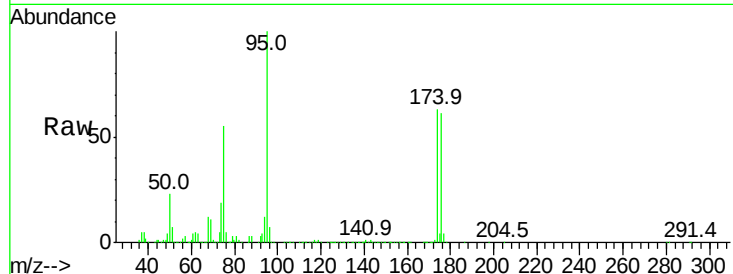




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.043 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

Tgt Ion: 95 Resp: 2641365
 Ion Ratio Lower Upper
 95 100
 174 64.2 46.0 69.0
 175 4.7 3.4 5.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.093 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL032734.D
 Acq: 8 Nov 2018 2:18

Tgt Ion: 105 Resp: 36328
 Ion Ratio Lower Upper
 105 100
 120 25.5 35.8 53.8#
 91 9.9 33.2 49.8#
 77 6.9 16.2 24.4#

