

Data File : VL032730.D
Acq On : 7 Nov 2018 23:37
Operator : SY/AP
Sample : J5823-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

Quant Time: Nov 08 10:57:22 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1480924	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3760504	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3668871	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2712068 9.93 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 99.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.09	85	10681	0.071 ppbv	96
3) Chlorodifluoromethane	3.02	51	4839	0.042 ppbv #	90
4) Chloromethane	3.18	50	4529	0.070 ppbv #	85
9) Propene	3.05	41	16800	0.352 ppbv	92
10) Heptane	8.26	43	9109	0.050 ppbv	87
13) Ethanol	3.66	45	2713525	199.197 ppbv	98
15) Acetone	3.92	43	285354	2.087 ppbv	96
17) tert-Butyl alcohol	4.38	59	93862	2.334 ppbv #	100
19) Isopropyl Alcohol	4.04	45	423247	4.346 ppbv #	98
20) Methylene Chloride	4.42	84	16184	0.233 ppbv #	71
23) Vinyl Acetate	5.15	43	47405	0.196 ppbv #	64
25) Ethyl Acetate	5.79	43	33677	0.107 ppbv #	91
26) Hexane	5.79	57	28942	0.194 ppbv #	58
34) 2-Butanone	5.34	43	34783	0.173 ppbv	91
36) Benzene	7.01	78	83865	0.275 ppbv #	92
39) 1,2-Dichloropropane	7.30	63	923785	7.834 ppbv #	26
44) 2,2,4-Trimethylpentane	8.00	57	106069	0.203 ppbv #	85
53) Toluene	9.96	91	564127	1.612 ppbv	98
58) Ethyl Benzene	12.88	91	54011	0.127 ppbv	95
59) m/p-Xylene	13.16	91	57046	0.150 ppbv #	31
60) o-Xylene	13.87	91	35376	0.097 ppbv #	43
65) tert-Butylbenzene	17.13	119	259451	0.588 ppbv #	20
74) 1,2,4-Trimethylbenzene	16.94	105	26246	0.065 ppbv #	78
75) 1,3-Dichlorobenzene	17.18	146	24021	0.103 ppbv #	61

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

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ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

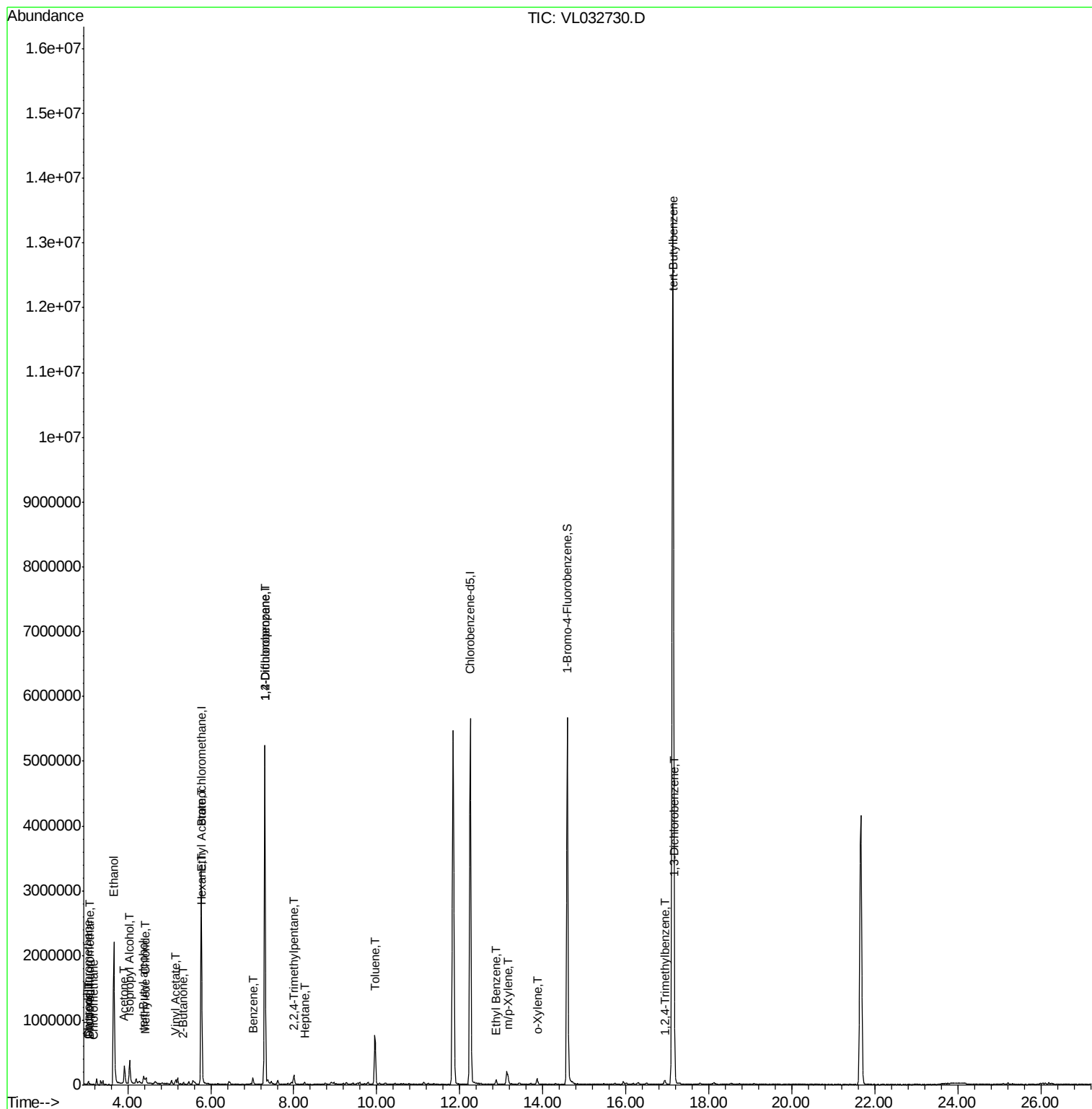
Quant Time: Nov 08 10:57:22 2018

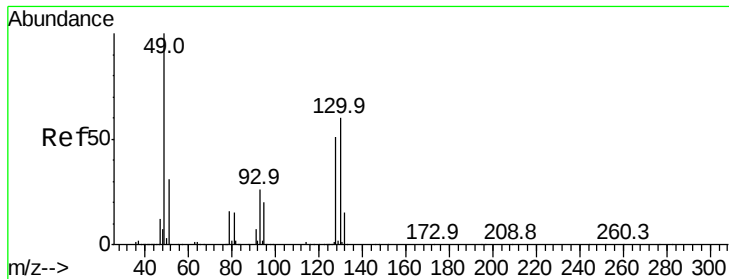
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

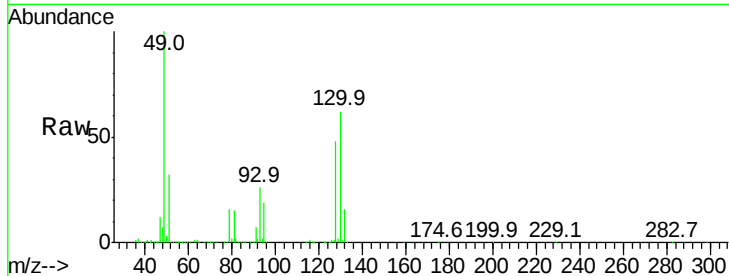
Tgt Ion: 49 Resp: 1480924

Ion Ratio Lower Upper

49 100

128 51.2 22.3 66.8

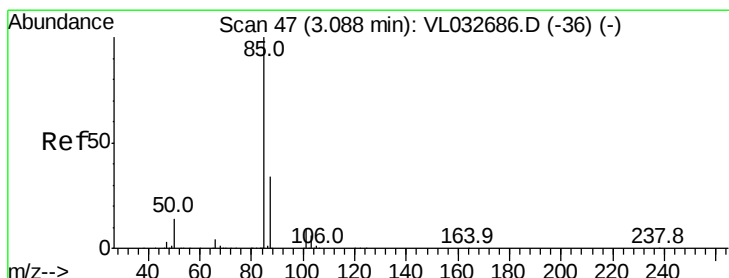
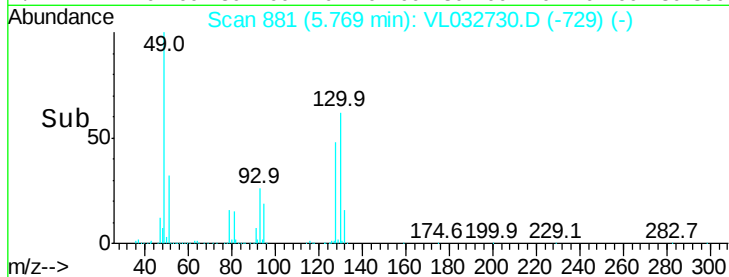
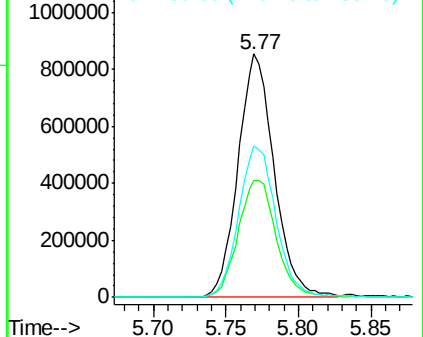
130 64.8 28.4 85.3



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: 0.071 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032730.D

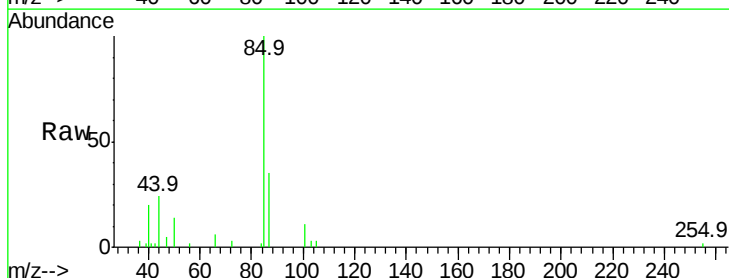
Acq: 7 Nov 2018 23:37

Tgt Ion: 85 Resp: 10681

Ion Ratio Lower Upper

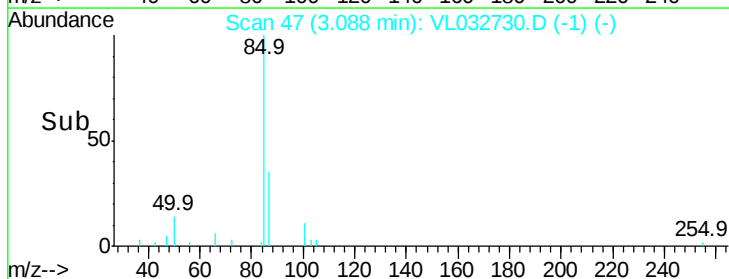
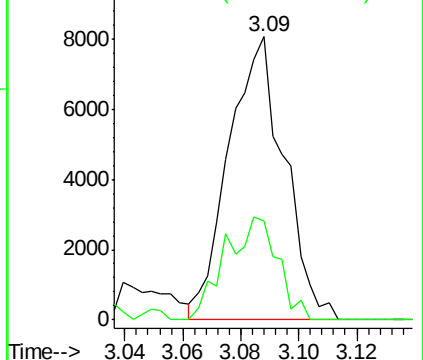
85 100

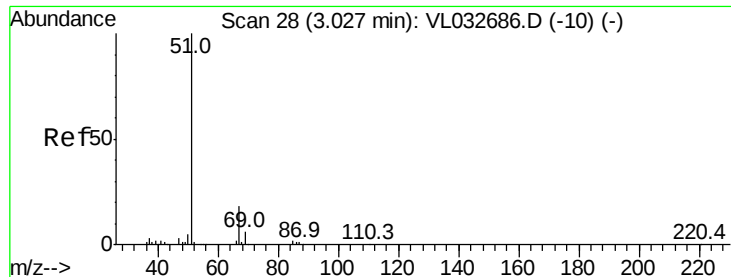
87 35.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

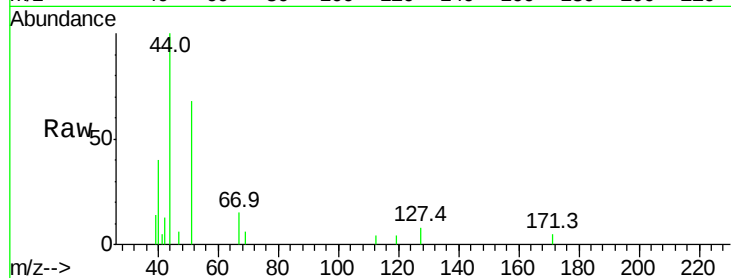
IA-01DL

Tgt Ion: 51 Resp: 4839

Ion Ratio Lower Upper

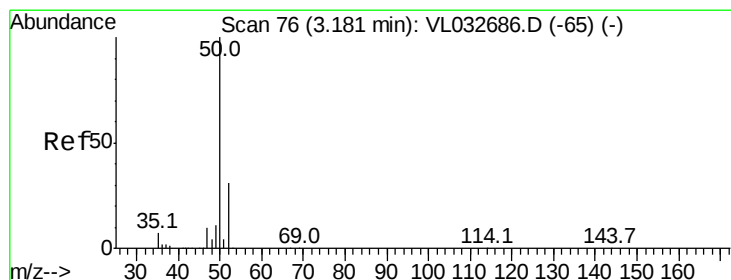
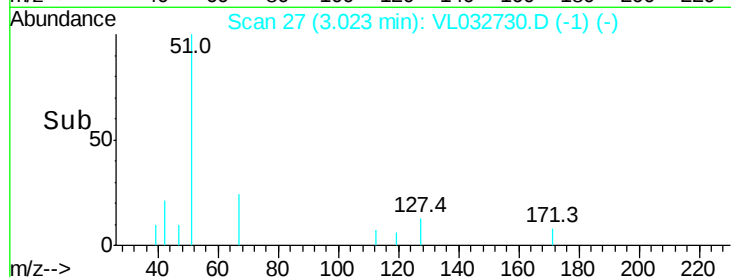
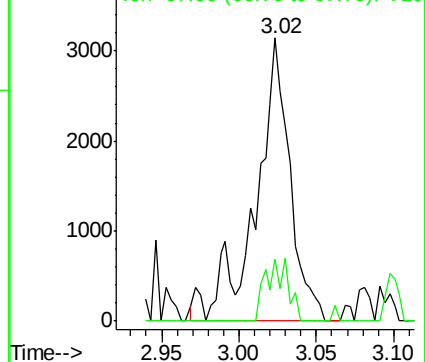
51 100

67 14.4 15.2 22.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.070 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032730.D

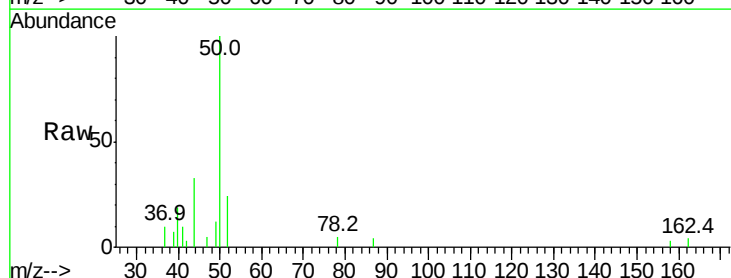
Acq: 7 Nov 2018 23:37

Tgt Ion: 50 Resp: 4529

Ion Ratio Lower Upper

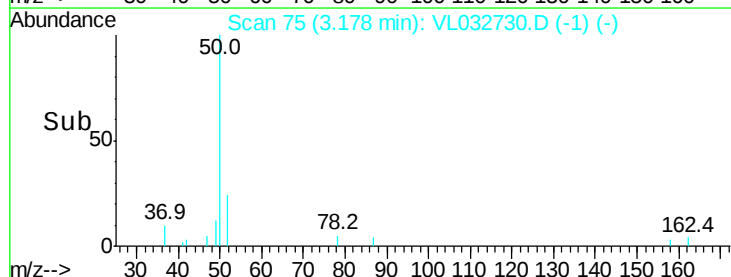
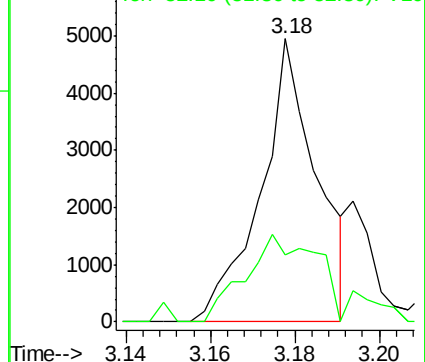
50 100

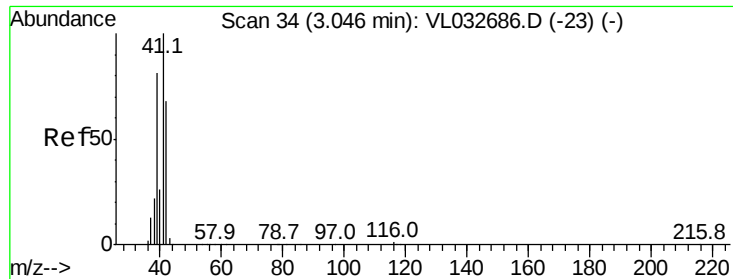
52 23.8 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.352 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

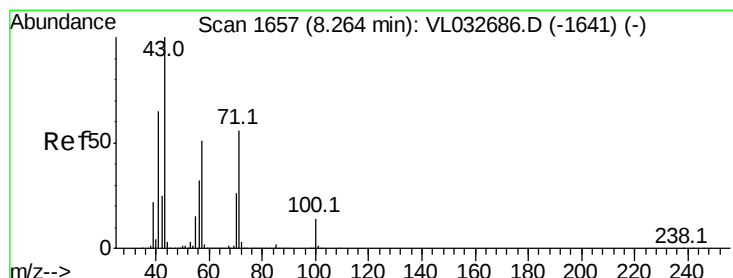
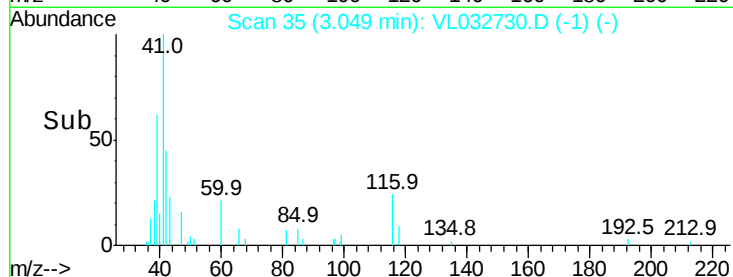
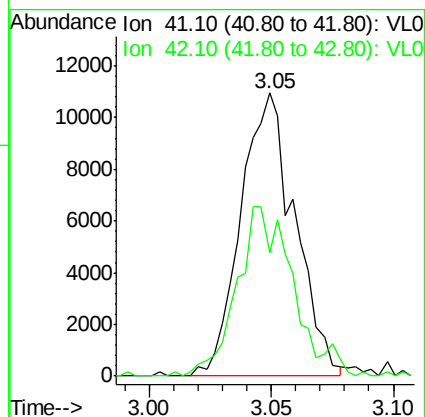
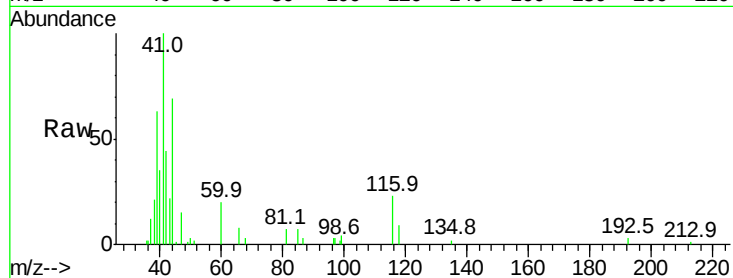
IA-01DL

Tgt Ion: 41 Resp: 16800

Ion Ratio Lower Upper

41 100

42 62.5 55.4 83.0



#10

Heptane

Concen: 0.050 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VL032730.D

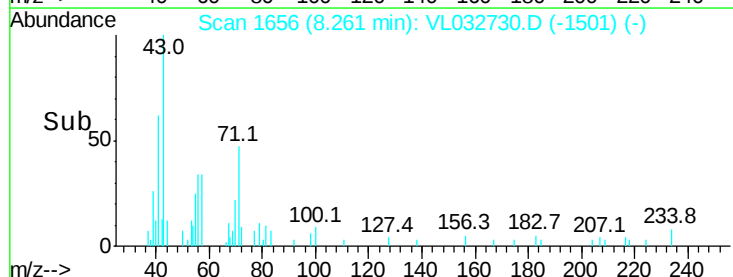
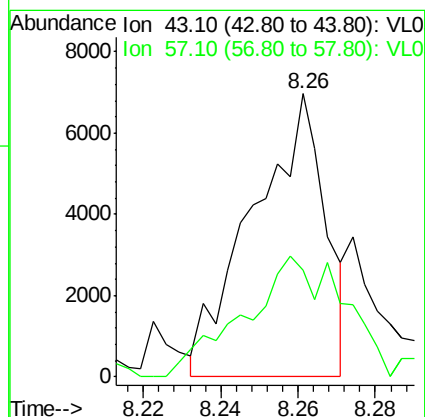
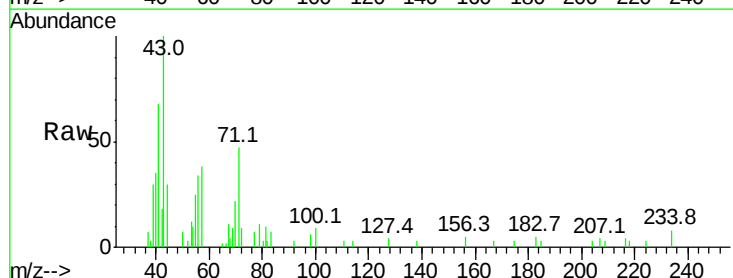
Acq: 7 Nov 2018 23:37

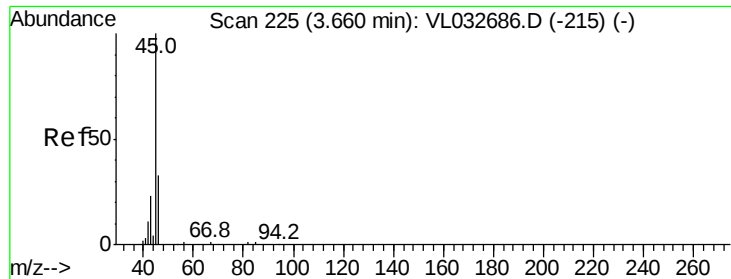
Tgt Ion: 43 Resp: 9109

Ion Ratio Lower Upper

43 100

57 60.7 41.5 62.3

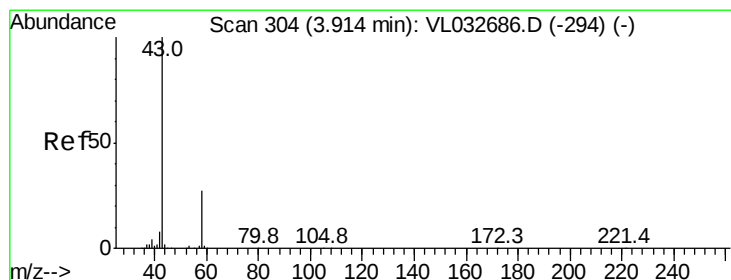
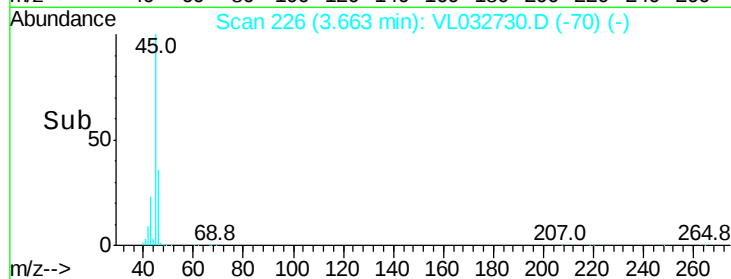
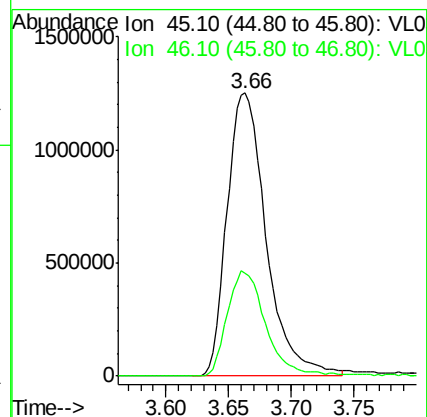
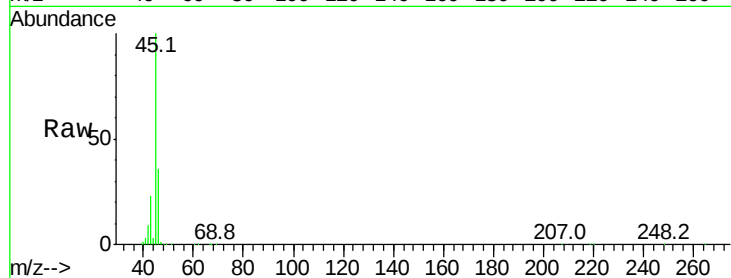




#13
Ethanol
Concen: 199.197 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.00 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

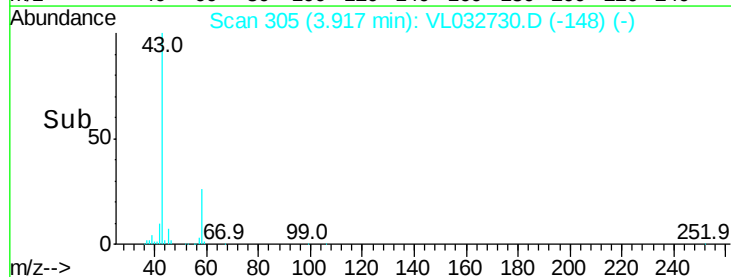
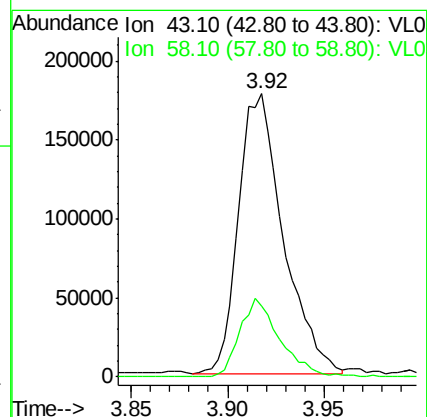
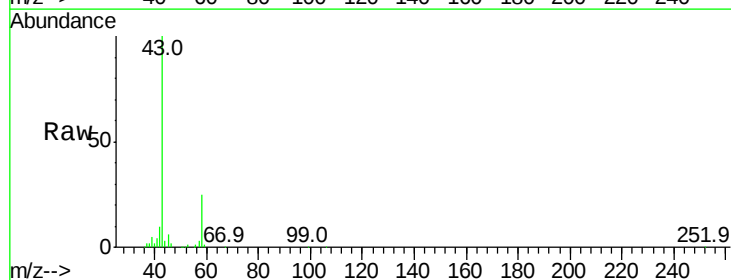
Instrument :
MSVOA_L
ClientSampleID :
IA-01DL

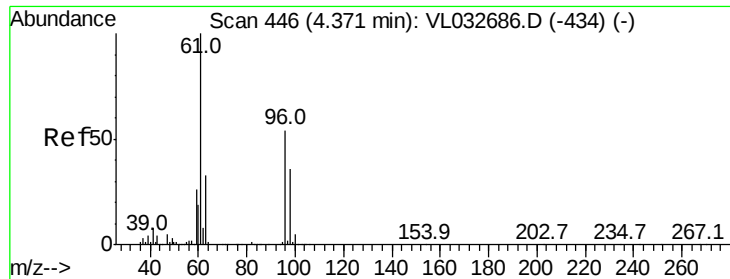
Tgt Ion: 45 Resp: 2713525
Ion Ratio Lower Upper
45 100
46 37.3 15.4 61.8



#15
Acetone
Concen: 2.087 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.01 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

Tgt Ion: 43 Resp: 285354
Ion Ratio Lower Upper
43 100
58 25.5 22.1 33.1



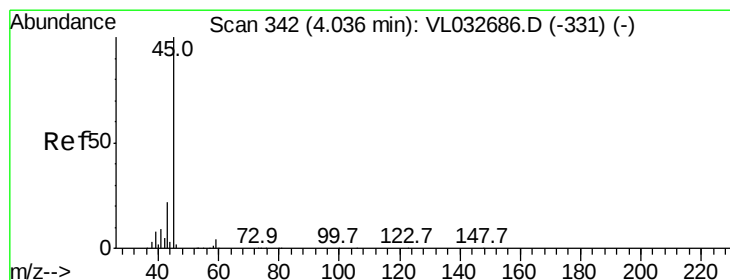
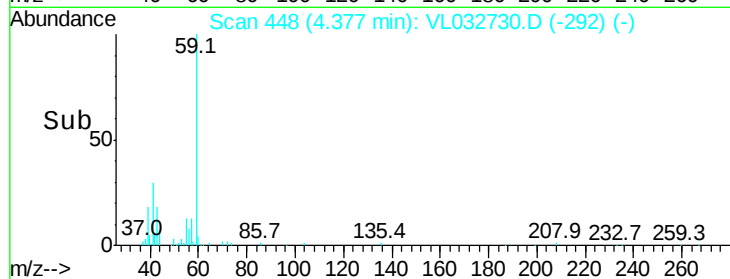
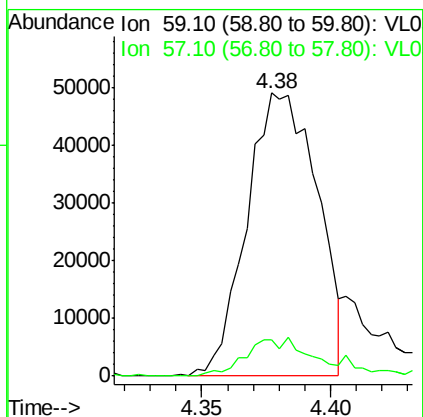
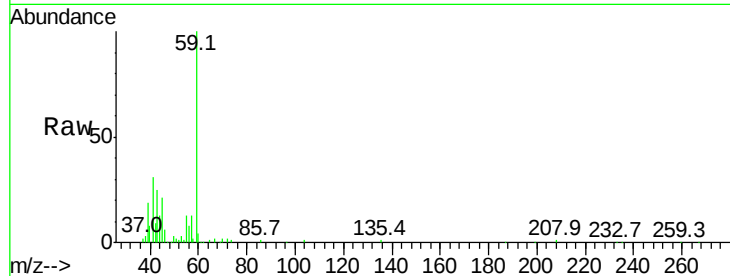


#17

tert-Butyl alcohol
Concen: 2.334 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.00 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

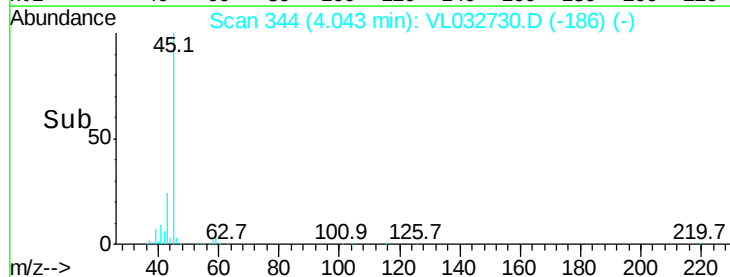
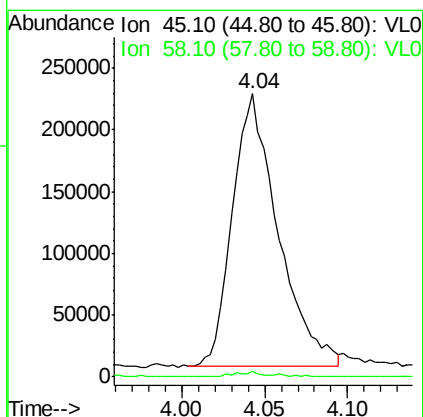
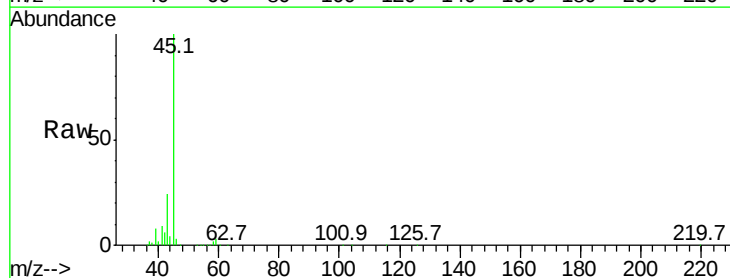
Tgt Ion: 59 Resp: 93862
Ion Ratio Lower Upper
59 100
57 14.8 0.0 0.0#

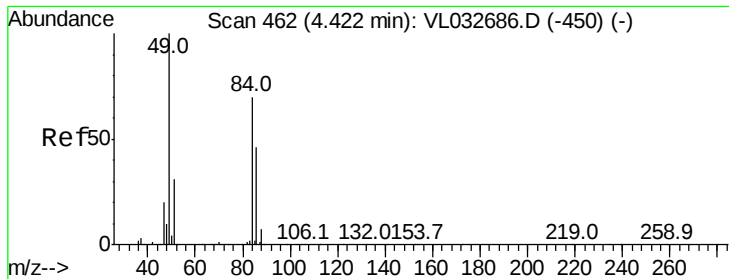


#19

Isopropyl Alcohol
Concen: 4.346 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

Tgt Ion: 45 Resp: 423247
Ion Ratio Lower Upper
45 100
58 1.8 2.0 3.0#





#20

Methylene Chloride

Concen: 0.233 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

Tgt Ion: 84 Resp: 16184

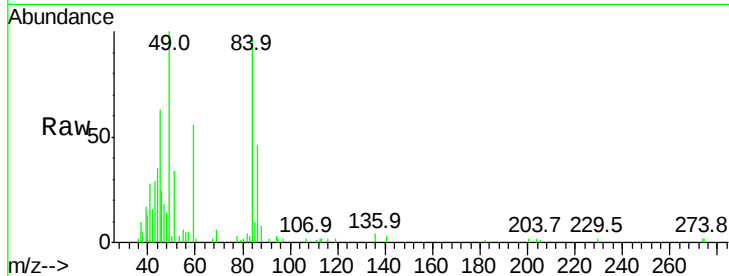
Ion Ratio Lower Upper

84 100

49 100.5 113.5 170.3#

51 24.2 34.8 52.2#

86 45.5 47.9 71.9#

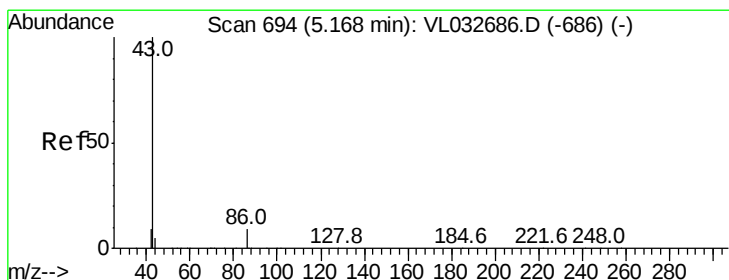
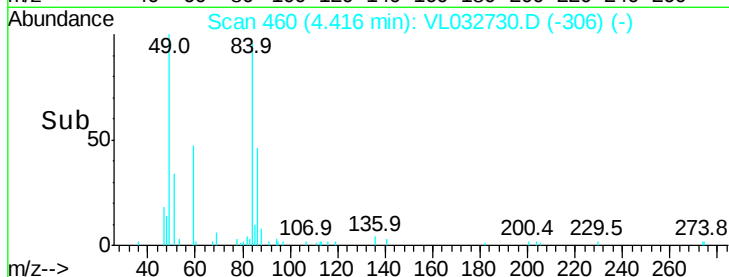
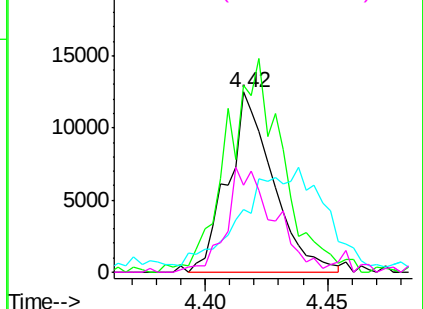


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.196 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.02 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Tgt Ion: 43 Resp: 47405

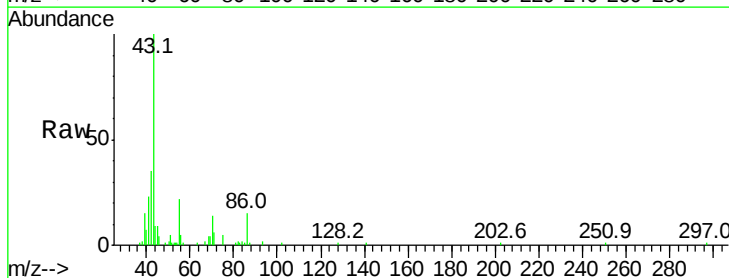
Ion Ratio Lower Upper

43 100

86 15.6 6.1 9.1#

42 32.0 7.4 11.2#

44 2.1 4.2 6.2#

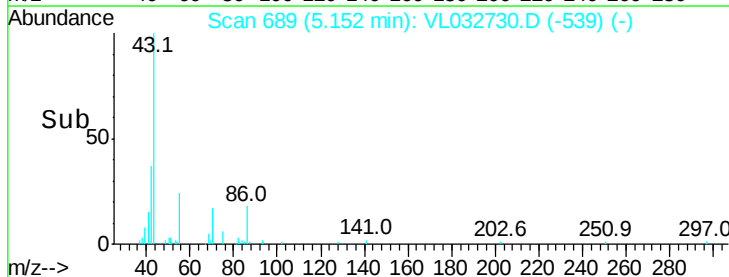
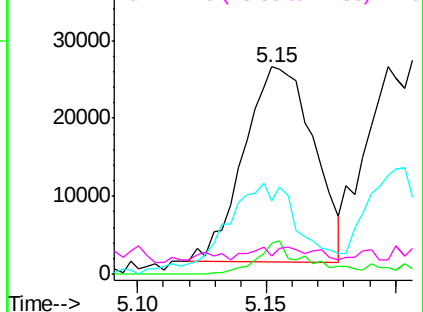


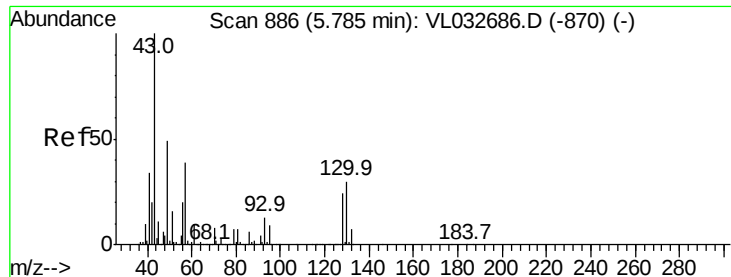
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.107 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

Tgt Ion: 43 Resp: 33677

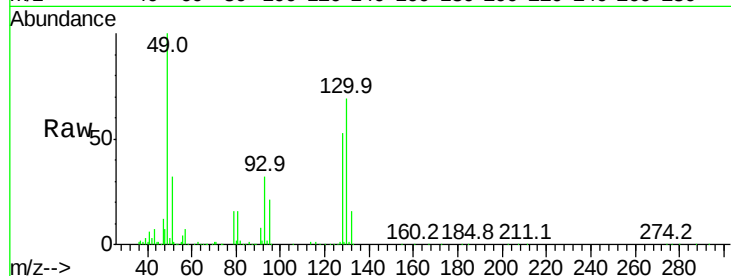
Ion Ratio Lower Upper

43 100

45 13.2 8.0 12.0#

61 5.7 8.0 12.0#

70 5.9 5.9 8.9

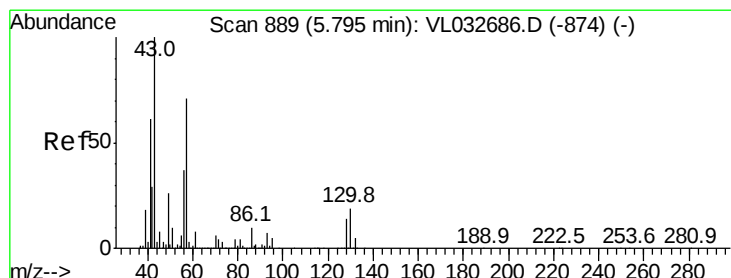
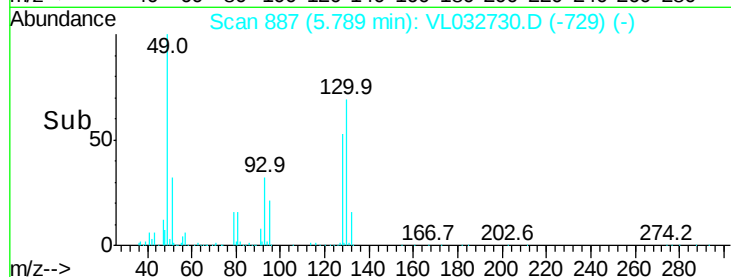
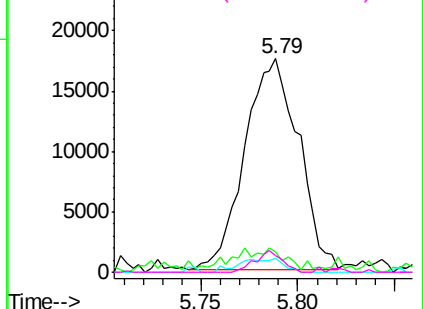


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.194 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.00 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Tgt Ion: 57 Resp: 28942

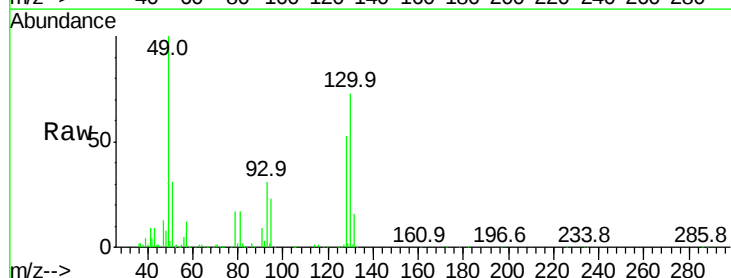
Ion Ratio Lower Upper

57 100

41 97.3 67.4 101.0

43 117.8 171.9 257.9#

56 57.1 42.6 63.8

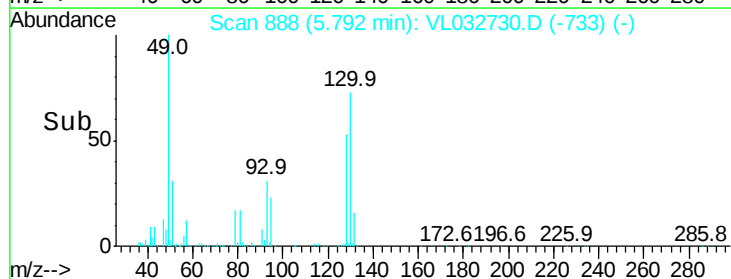
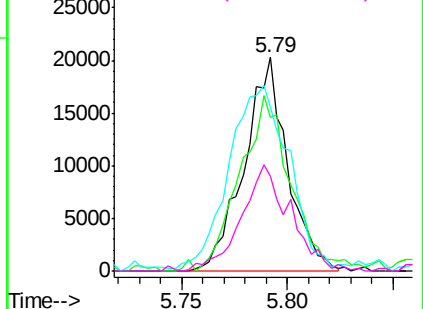


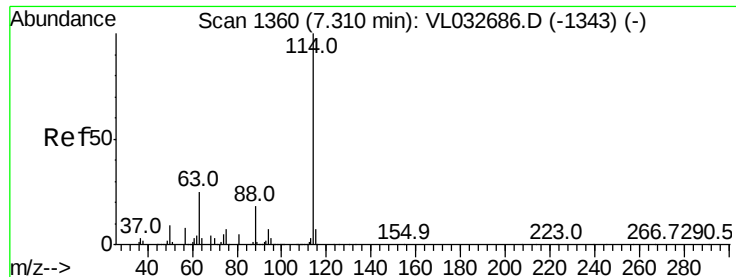
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

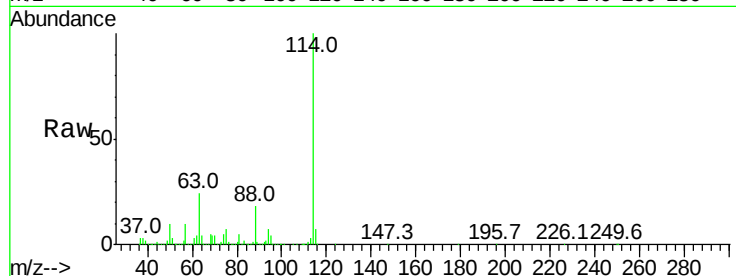
Tgt Ion:114 Resp: 3760504

Ion Ratio Lower Upper

114 100

63 24.7 21.7 32.5

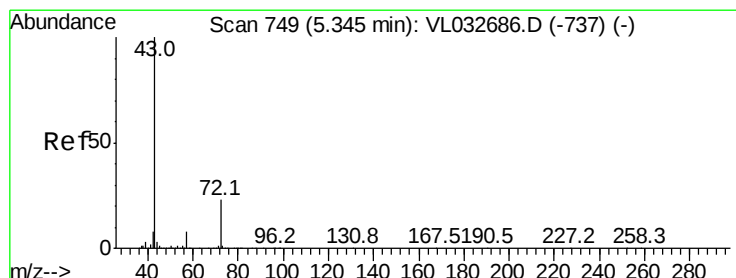
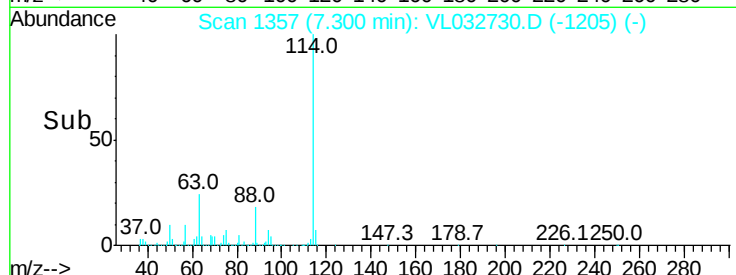
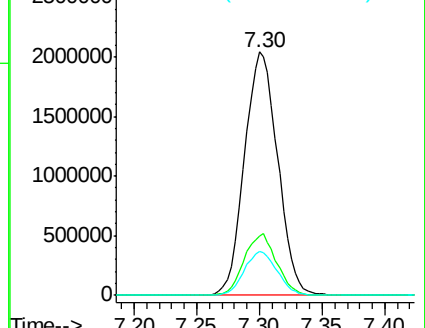
88 17.9 14.9 22.3



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: 0.173 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.00 min

Lab File: VL032730.D

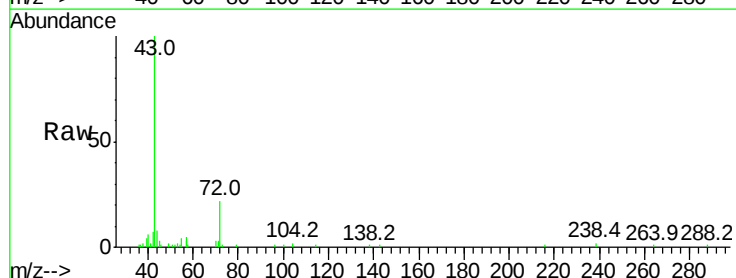
Acq: 7 Nov 2018 23:37

Tgt Ion: 43 Resp: 34783

Ion Ratio Lower Upper

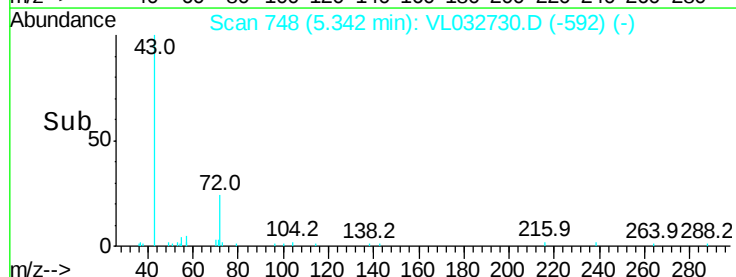
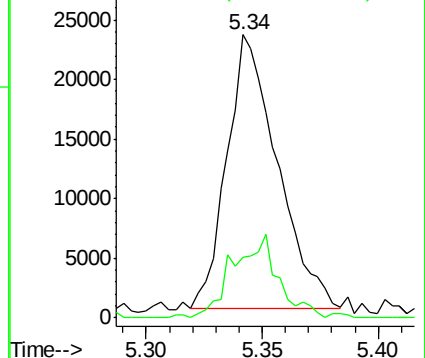
43 100

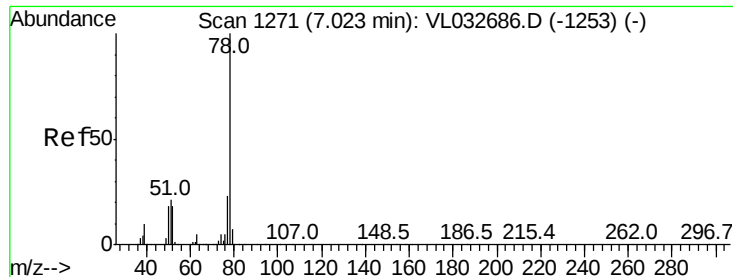
72 27.8 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.275 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

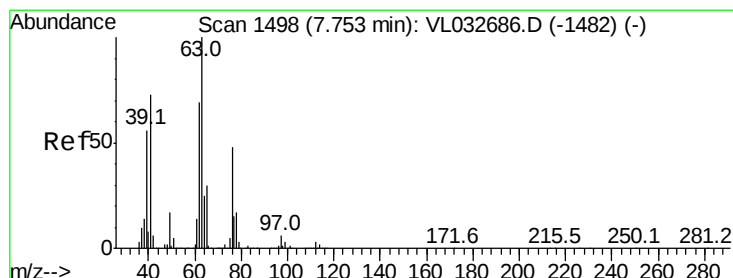
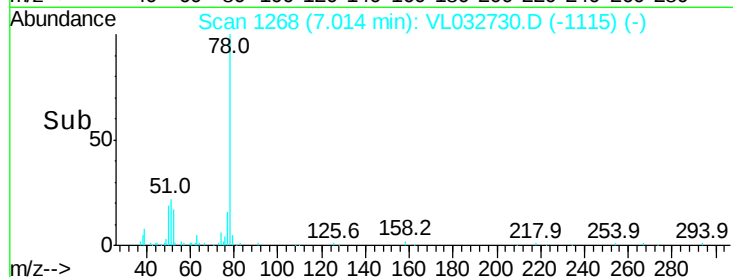
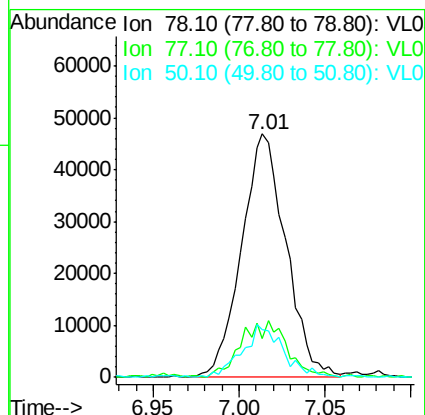
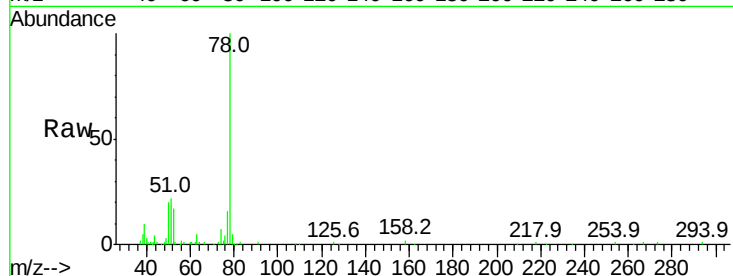
Tgt Ion: 78 Resp: 83865

Ion Ratio Lower Upper

78 100

77 15.8 18.1 27.1#

50 19.2 15.1 22.7



#39

1,2-Dichloropropane

Concen: 7.834 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.45 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

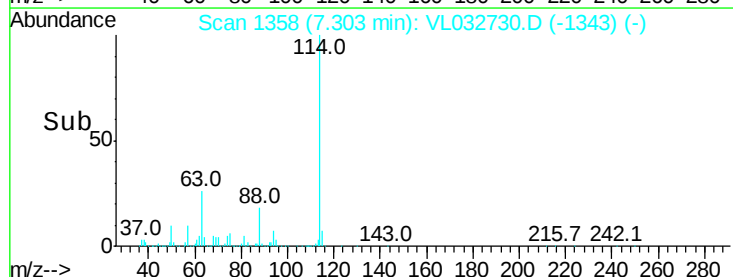
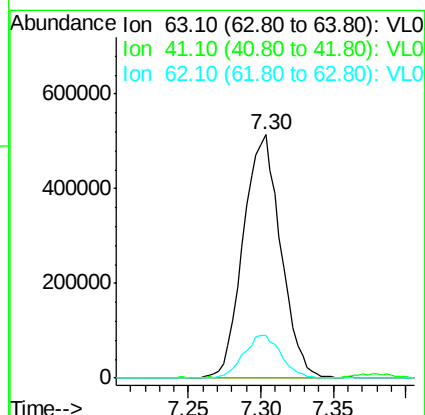
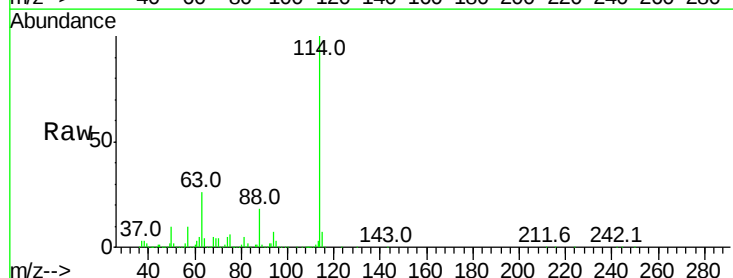
Tgt Ion: 63 Resp: 923785

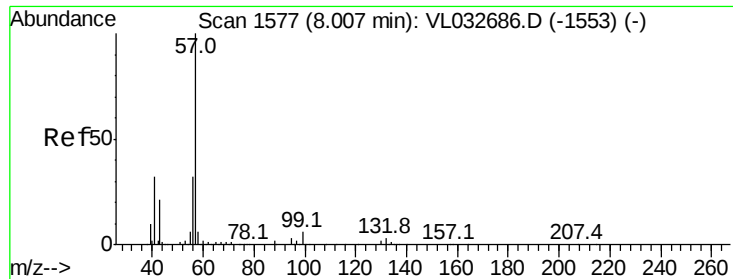
Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

62 17.5 54.4 81.6#





#44

2,2,4-Trimethylpentane

Concen: 0.203 ppbv

RT: 8.00 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

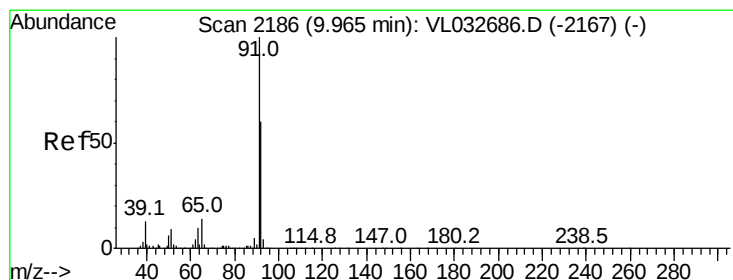
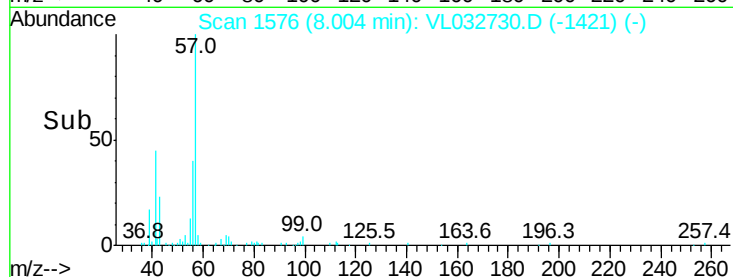
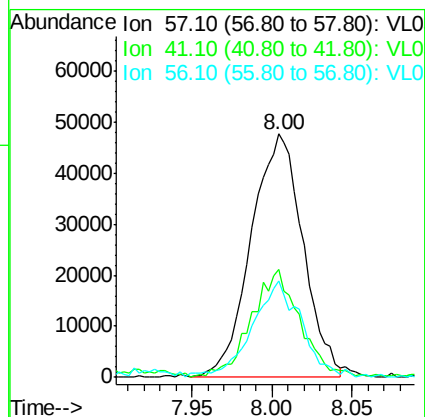
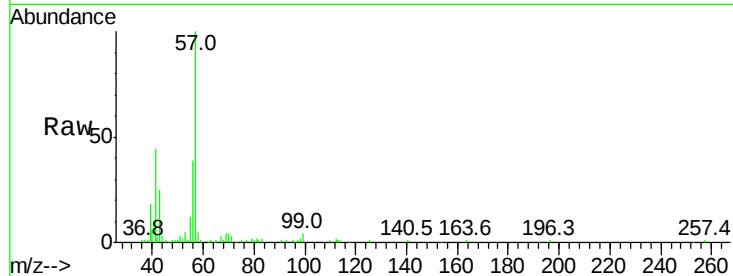
Tgt Ion: 57 Resp: 106069

Ion Ratio Lower Upper

57 100

41 40.9 24.7 37.1#

56 38.0 25.0 37.4#



#53

Toluene

Concen: 1.612 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL032730.D

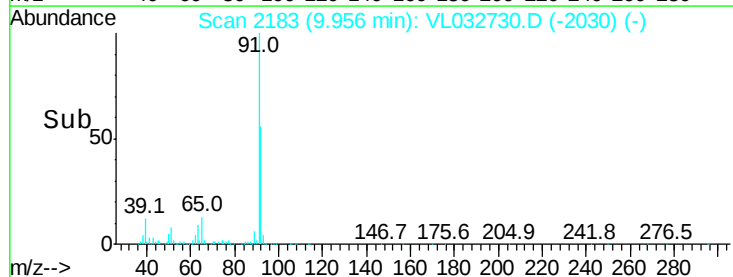
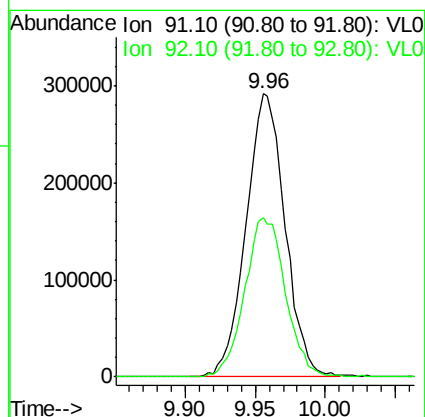
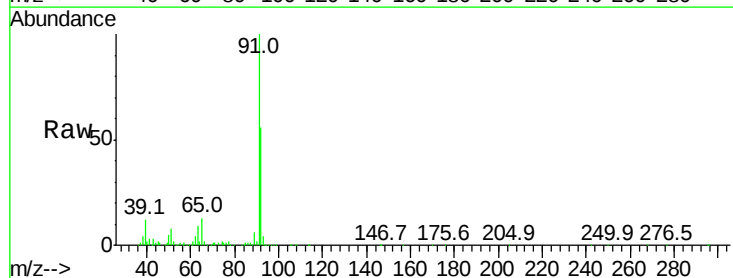
Acq: 7 Nov 2018 23:37

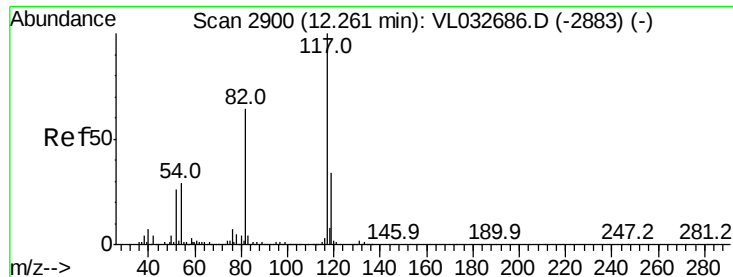
Tgt Ion: 91 Resp: 564127

Ion Ratio Lower Upper

91 100

92 58.9 48.4 72.6

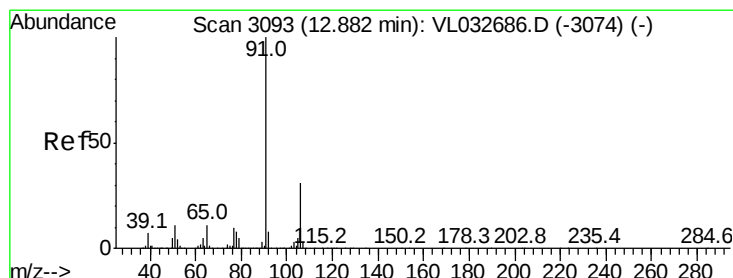
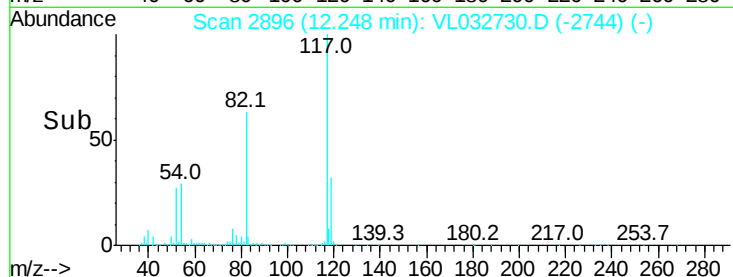
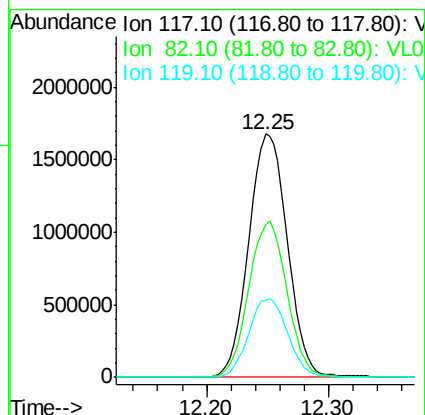
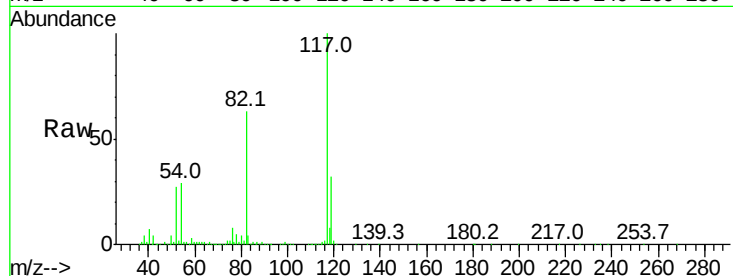




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

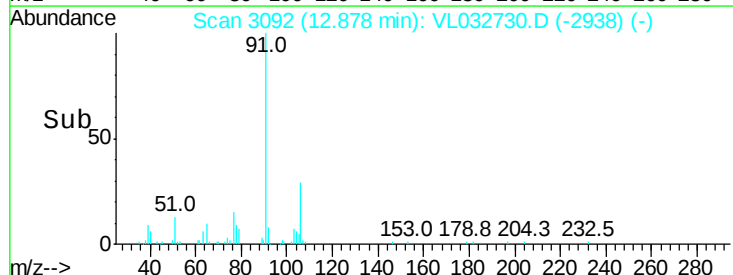
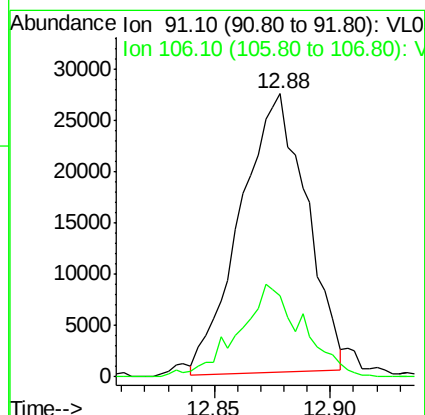
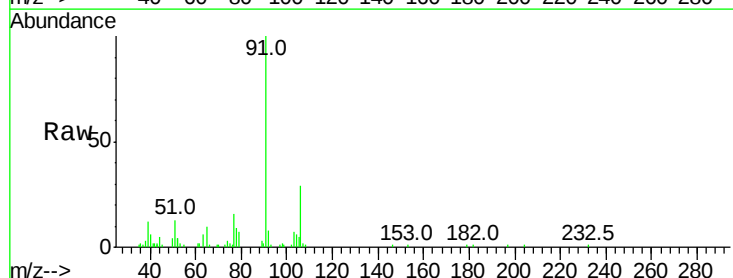
Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

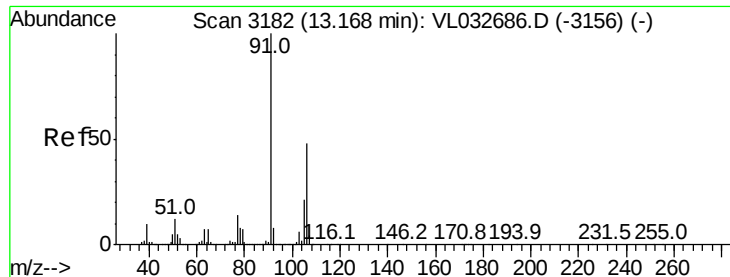
Tgt Ion:117 Resp: 3668871
Ion Ratio Lower Upper
117 100
82 63.8 52.7 79.1
119 32.7 26.7 40.1



#58
Ethyl Benzene
Concen: 0.127 ppbv
RT: 12.88 min Scan# 3092
Delta R.T. -0.00 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

Tgt Ion: 91 Resp: 54011
Ion Ratio Lower Upper
91 100
106 27.2 24.2 36.2

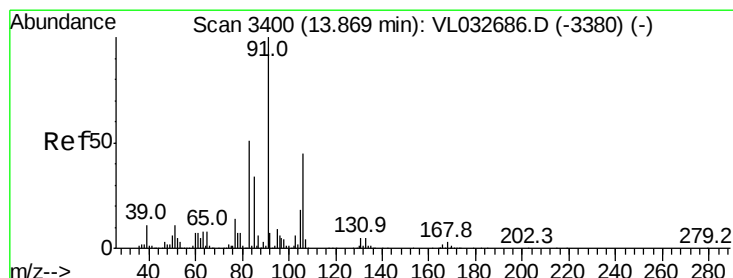
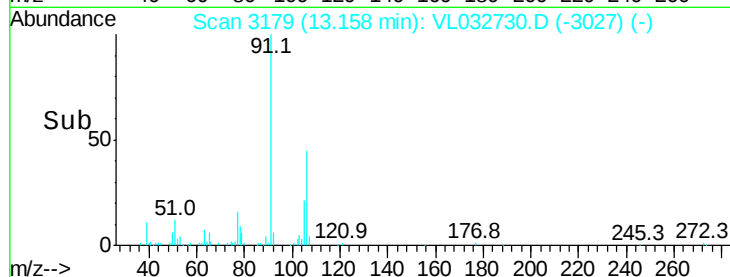
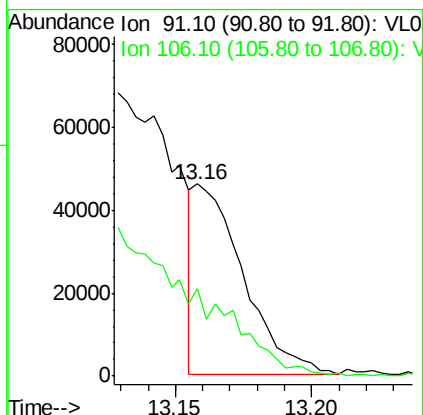
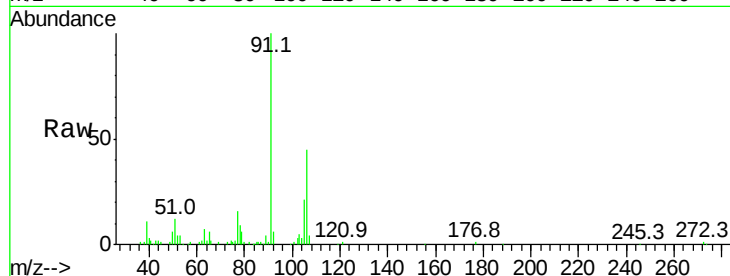




#59
m/p-Xylene
Concen: 0.150 ppbv
RT: 13.16 min Scan# 3179
Delta R.T. -0.01 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

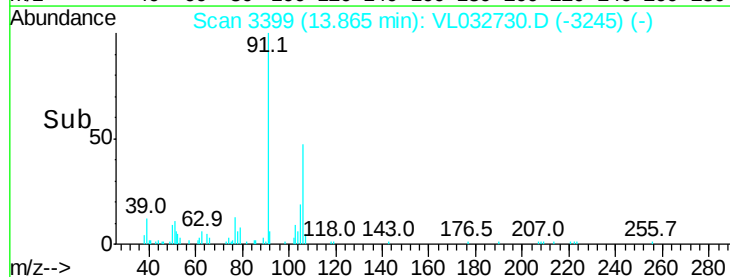
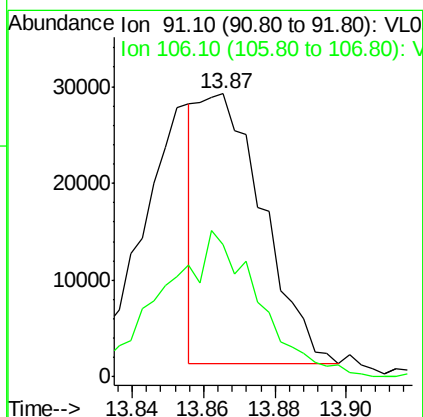
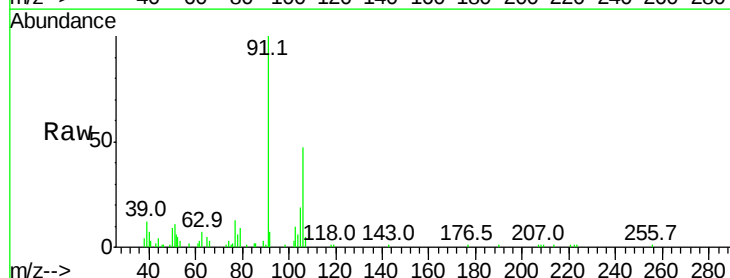
Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

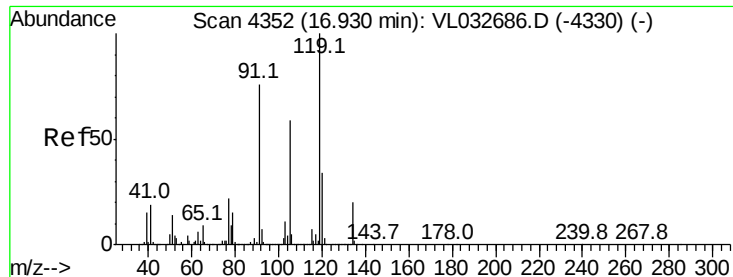
Tgt Ion: 91 Resp: 57046
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#



#60
o-Xylene
Concen: 0.097 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. -0.00 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

Tgt Ion: 91 Resp: 35376
Ion Ratio Lower Upper
91 100
106 80.7 22.1 66.1#

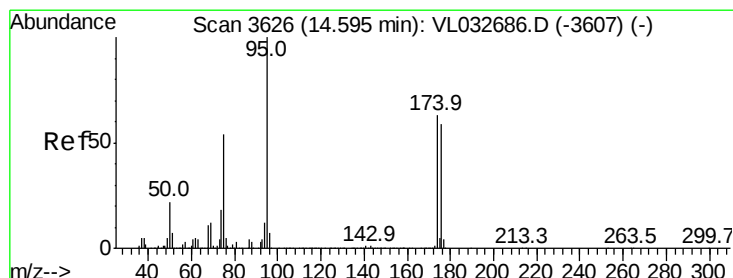
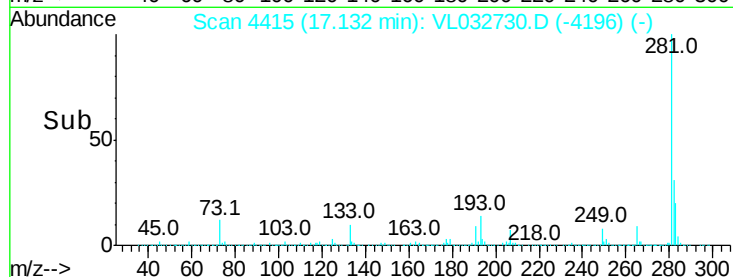
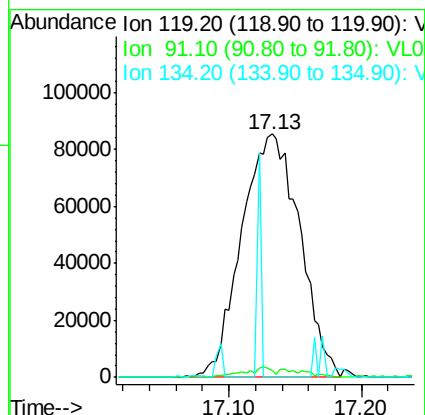
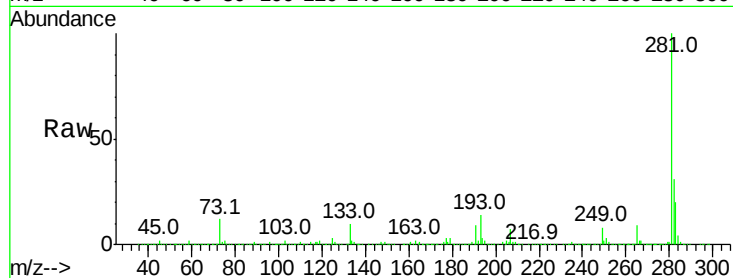




#65
tert-Butylbenzene
Concen: 0.588 ppbv
RT: 17.13 min Scan# 4415
Delta R.T. 0.21 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

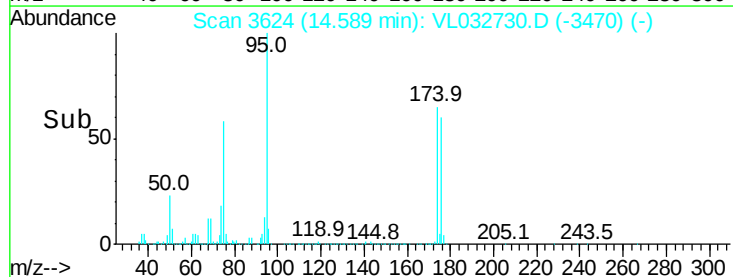
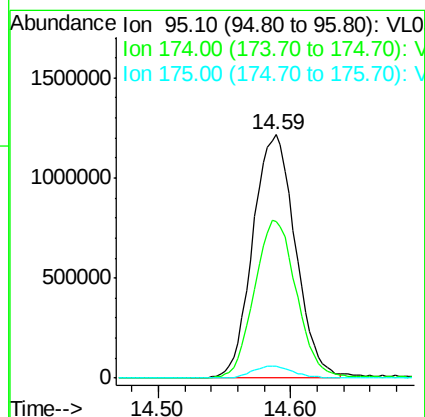
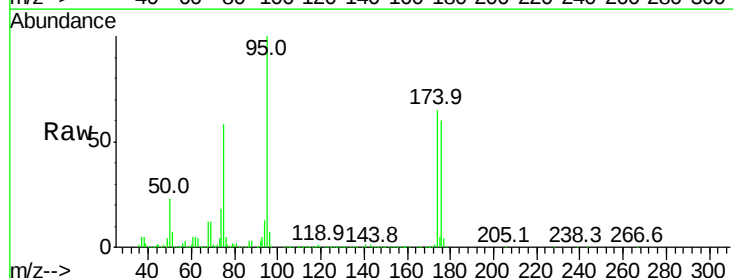
Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

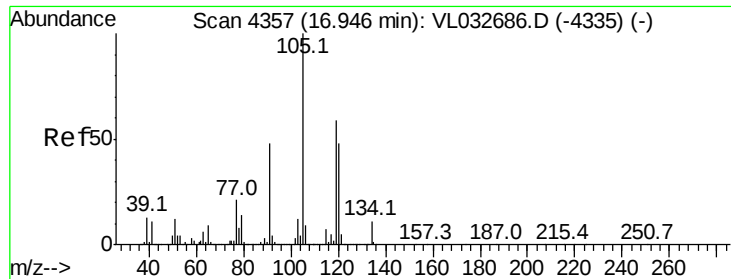
Tgt Ion: 119 Resp: 259451
Ion Ratio Lower Upper
119 100
91 3.7 67.8 101.8#
134 0.0 15.8 23.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.928 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. -0.00 min
Lab File: VL032730.D
Acq: 7 Nov 2018 23:37

Tgt Ion: 95 Resp: 2712068
Ion Ratio Lower Upper
95 100
174 64.8 46.0 69.0
175 4.7 3.4 5.0





#74

1,2,4-Trimethylbenzene

Concen: 0.065 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

Tgt Ion:105 Resp: 26246

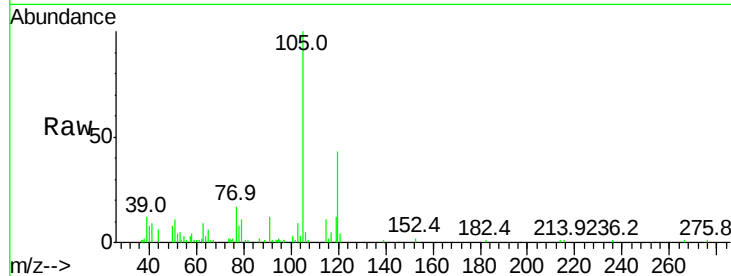
Ion Ratio Lower Upper

105 100

120 41.1 35.8 53.8

91 11.0 33.2 49.8#

77 17.6 16.2 24.4

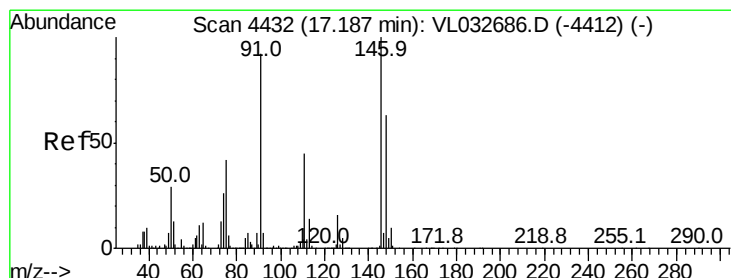
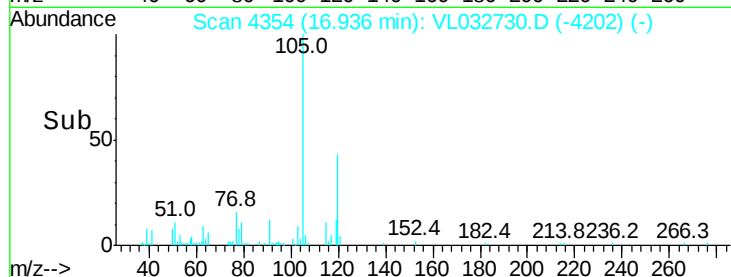
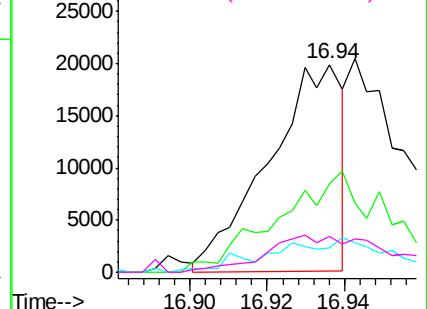


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.103 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL032730.D

Acq: 7 Nov 2018 23:37

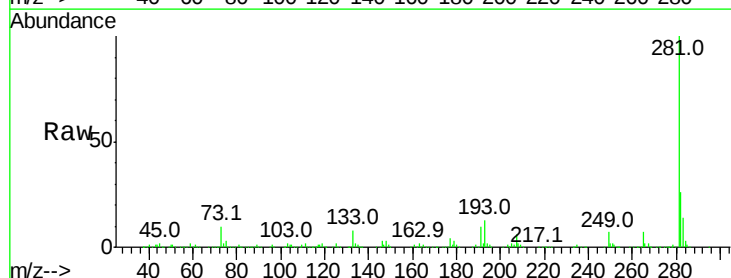
Tgt Ion:146 Resp: 24021

Ion Ratio Lower Upper

146 100

111 0.0 24.4 73.2#

148 74.3 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

