

Data File : VL034146.D
Acq On : 10 Sep 2019 17:12
Operator : SY/AP
Sample : K4775-01DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Sep 11 01:50:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Sep 05 10:21:45 2019
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	758478	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1522675	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.17	117	1501881	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1256730 10.24 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.40%

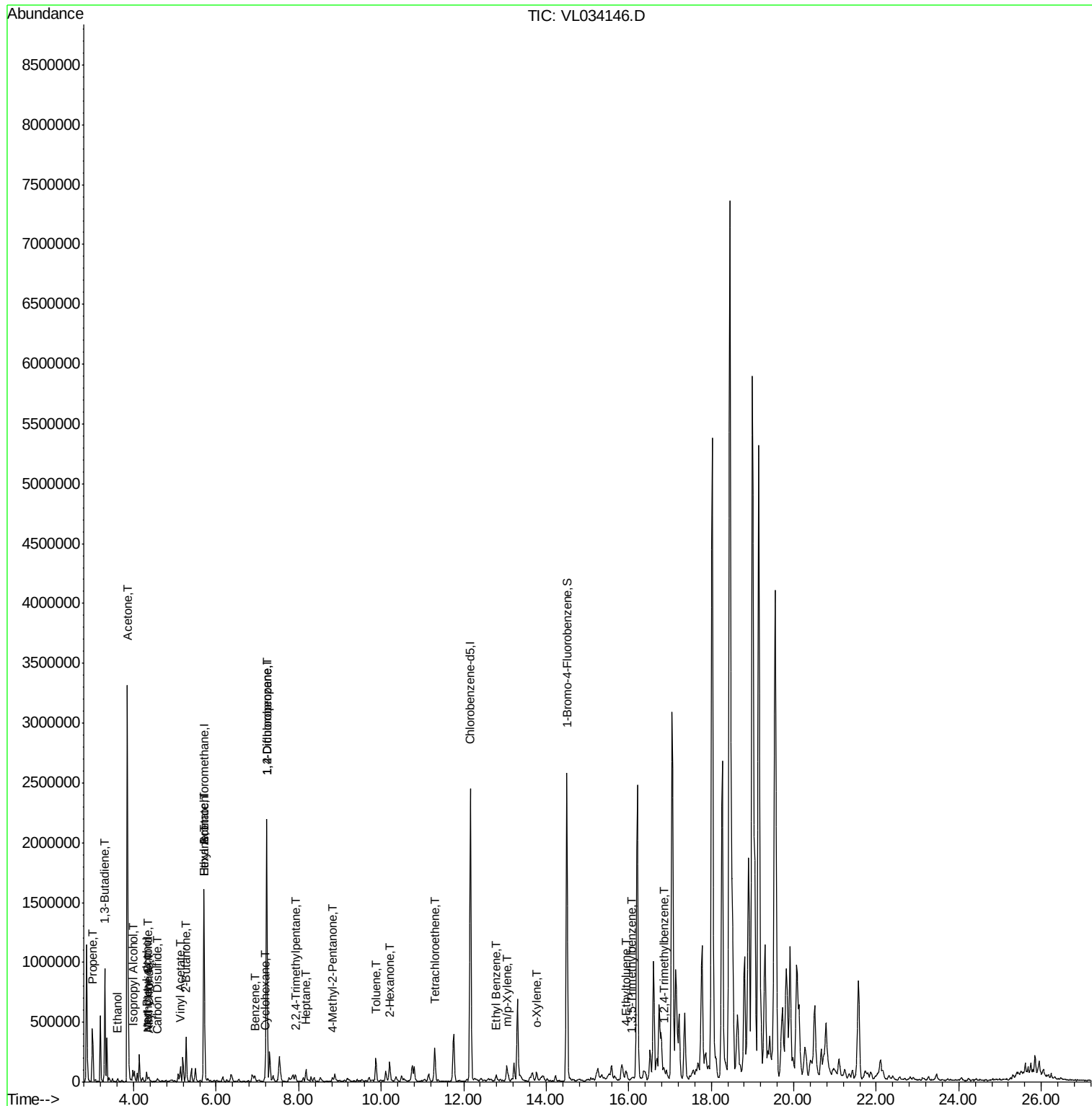
Target Compounds					Qvalue	
9) Propene	3.00	41	178983	3.784	ppbv	86
10) Heptane	8.18	43	30115	0.245	ppbv #	55
13) Ethanol	3.60	45	10964	1.183	ppbv #	37
15) Acetone	3.85	43	3491901	38.200	ppbv	92
16) 1,3-Butadiene	3.30	39	244474	5.281	ppbv #	19
17) tert-Butyl alcohol	4.31	59	53086	0.800	ppbv	95
19) Isopropyl Alcohol	3.98	45	85547	1.386	ppbv #	97
20) Methylene Chloride	4.36	84	10283	0.340	ppbv	93
21) Allyl Chloride	4.37	41	2447	0.041	ppbv #	1
23) Vinyl Acetate	5.13	43	60373	0.389	ppbv #	38
25) Ethyl Acetate	5.72	43	51575	0.257	ppbv #	80
26) Hexane	5.72	57	68550	0.768	ppbv #	36
27) Carbon Disulfide	4.56	76	7884	0.098	ppbv #	4
30) Cyclohexane	7.18	84	3065	0.048	ppbv #	1
34) 2-Butanone	5.27	43	418387	2.858	ppbv	99
36) Benzene	6.93	78	20932	0.120	ppbv #	91
39) 1,2-Dichloropropane	7.22	63	430740	5.783	ppbv #	24
44) 2,2,4-Trimethylpentane	7.92	57	19629	0.061	ppbv #	1
50) 4-Methyl-2-Pentanone	8.82	43	24414	0.109	ppbv #	87
51) 2-Hexanone	10.20	43	139426	0.723	ppbv #	100
52) Tetrachloroethene	11.29	164	33565	0.547	ppbv	94
53) Toluene	9.87	91	66135	0.344	ppbv #	25
58) Ethyl Benzene	12.78	91	44517	0.181	ppbv #	87
59) m/p-Xylene	13.07	91	25364	0.126	ppbv #	32
60) o-Xylene	13.77	91	44972	0.225	ppbv	99
72) 4-Ethyltoluene	15.92	105	15004	0.066	ppbv #	90
73) 1,3,5-Trimethylbenzene	16.08	105	10292	0.047	ppbv #	76
74) 1,2,4-Trimethylbenzene	16.85	105	20484	0.091	ppbv #	65

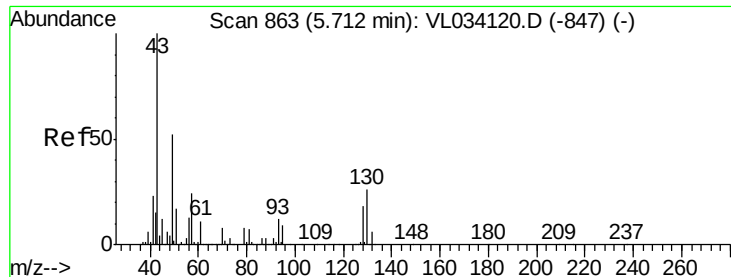
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:21:45 2019
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

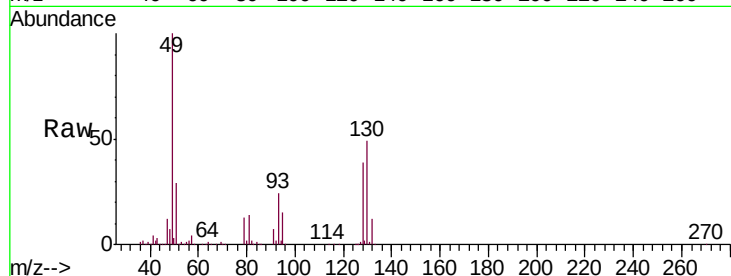
Tgt Ion: 49 Resp: 758478

Ion Ratio Lower Upper

49 100

128 39.2 18.4 55.0

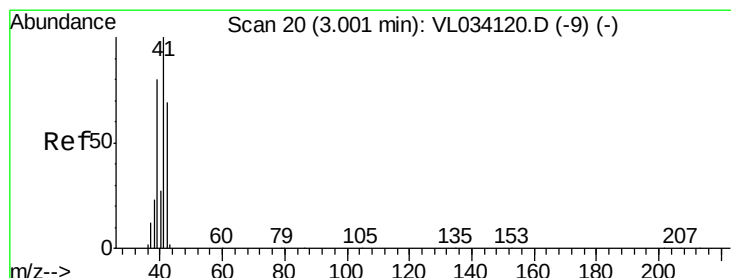
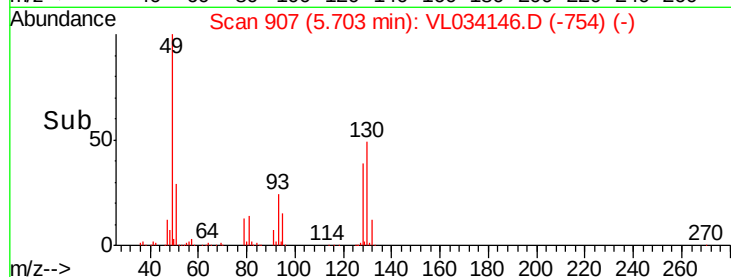
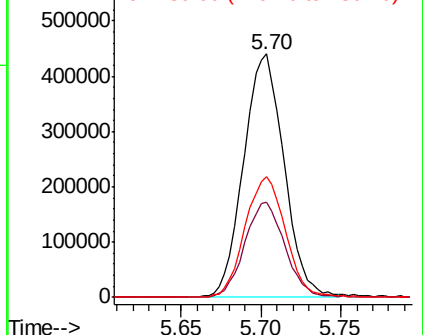
130 50.1 23.5 70.6



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



#9

Propene

Concen: 3.784 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL034146.D

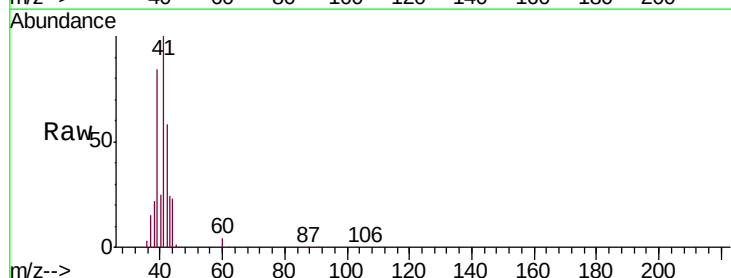
Acq: 10 Sep 2019 17:12

Tgt Ion: 41 Resp: 178983

Ion Ratio Lower Upper

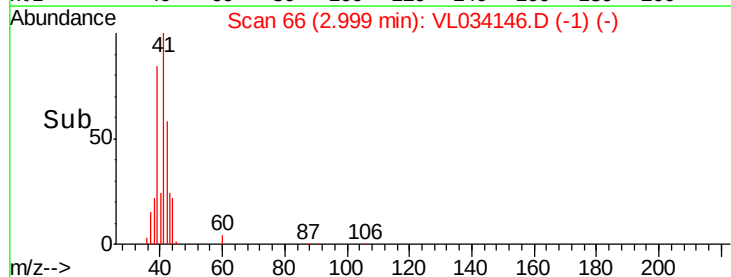
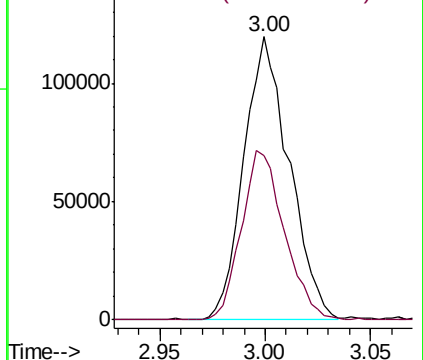
41 100

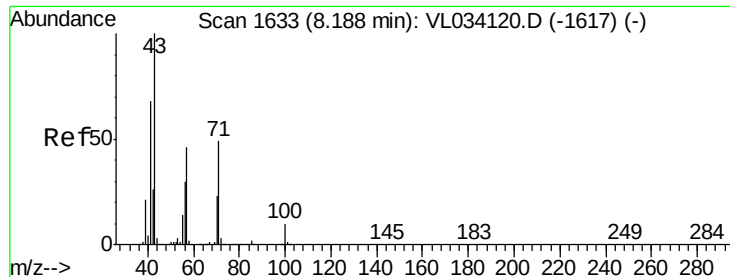
42 56.9 54.6 81.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

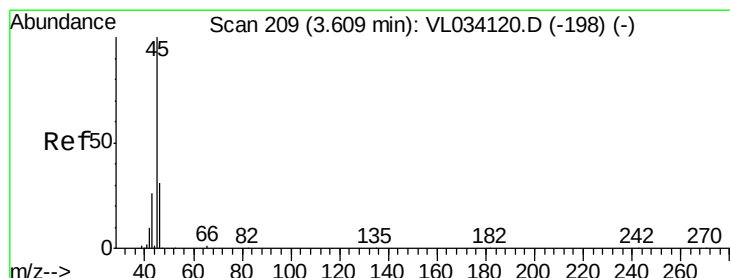
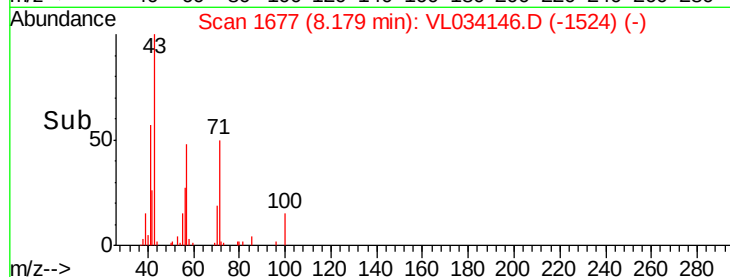
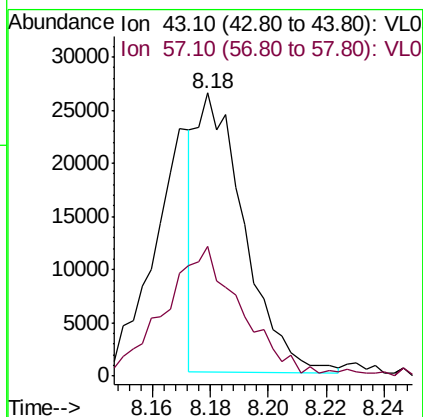
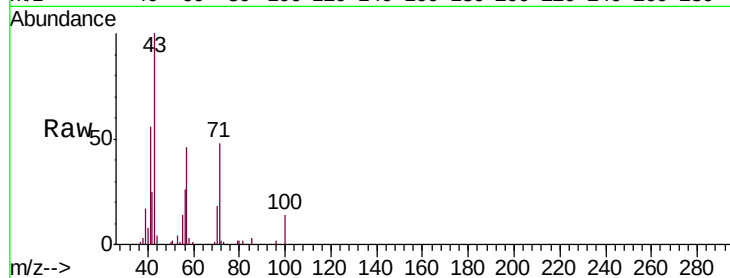




#10
Heptane
Concen: 0.245 ppbv
RT: 8.18 min Scan# 1677
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

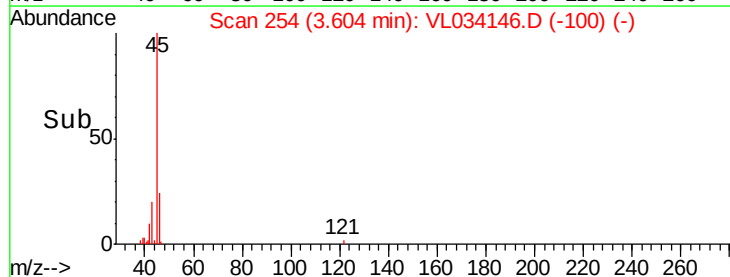
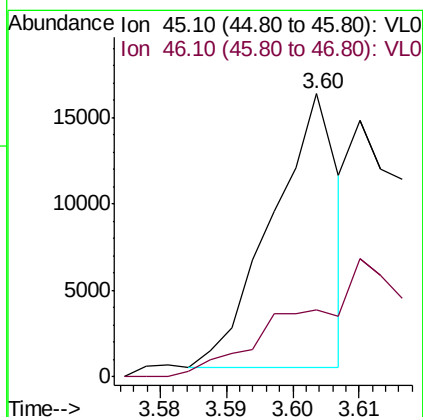
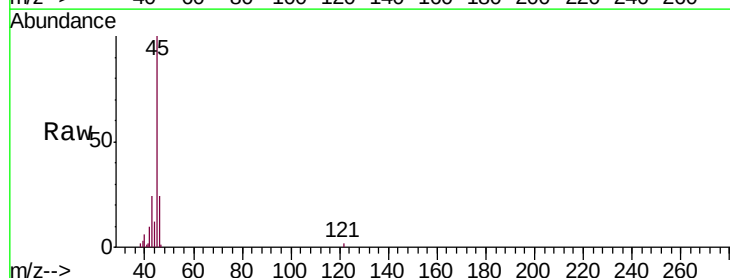
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

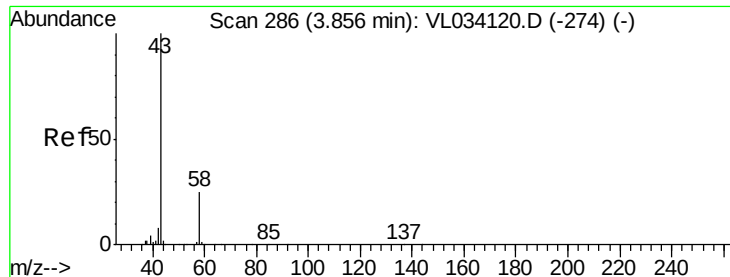
Tgt Ion: 43 Resp: 30115
Ion Ratio Lower Upper
43 100
57 78.1 38.1 57.1#



#13
Ethanol
Concen: 1.183 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

Tgt Ion: 45 Resp: 10964
Ion Ratio Lower Upper
45 100
46 0.0 15.0 60.0#





#15

Acetone

Concen: 38.200 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

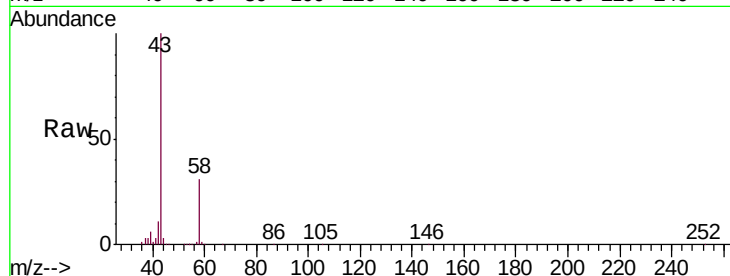
SV1DL

Tgt Ion: 43 Resp: 3491901

Ion Ratio Lower Upper

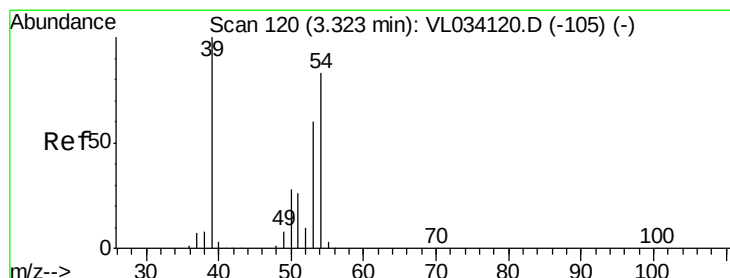
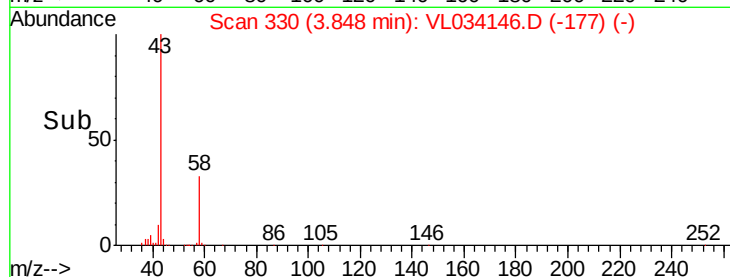
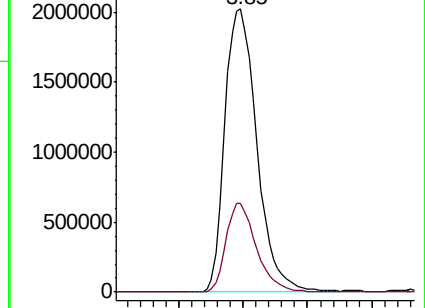
43 100

58 29.9 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 5.281 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL034146.D

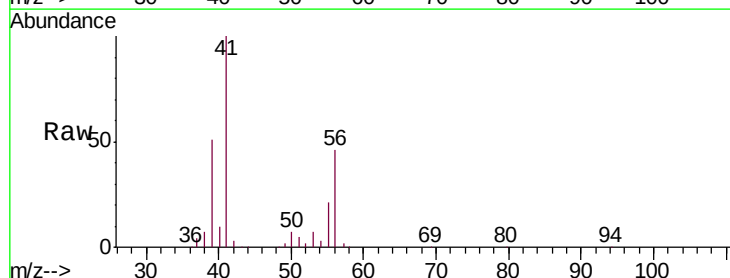
Acq: 10 Sep 2019 17:12

Tgt Ion: 39 Resp: 244474

Ion Ratio Lower Upper

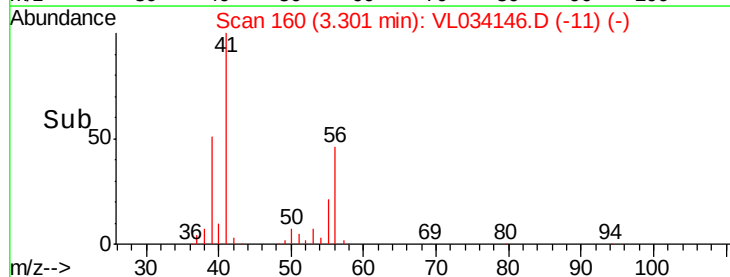
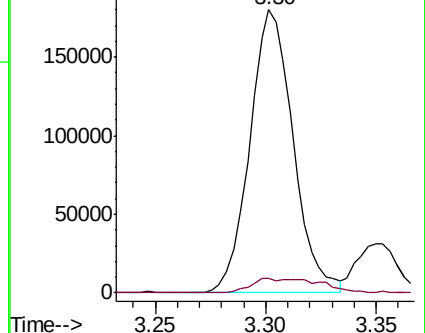
39 100

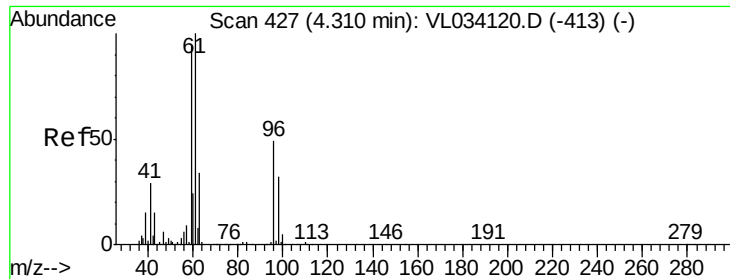
54 8.4 63.5 95.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

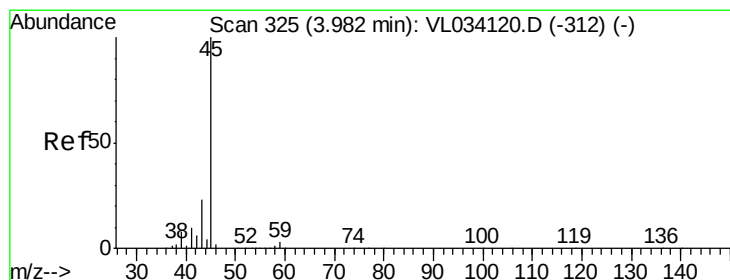
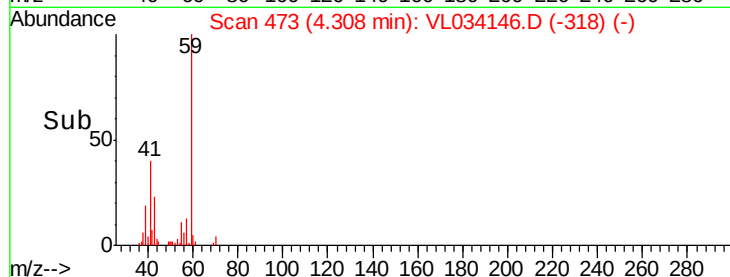
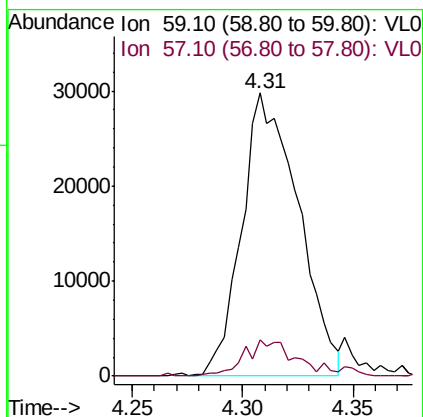
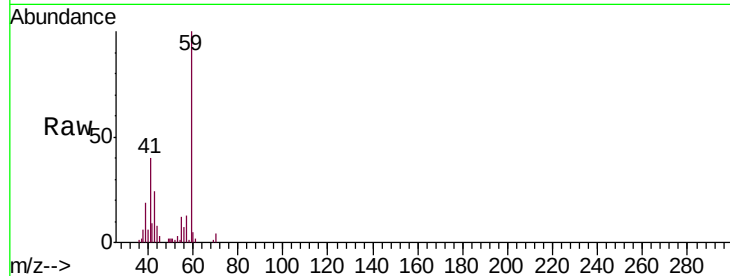




#17
 tert-Butyl alcohol
 Concen: 0.800 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. -0.00 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

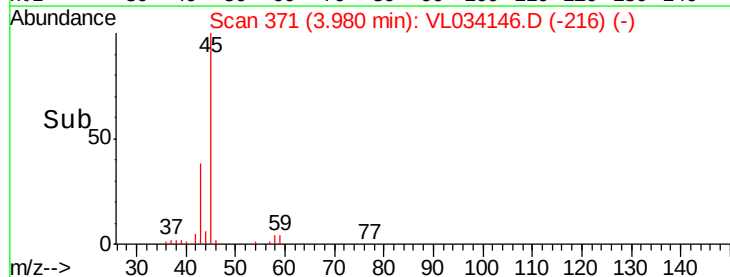
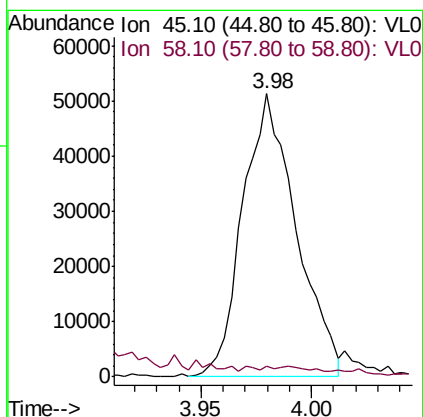
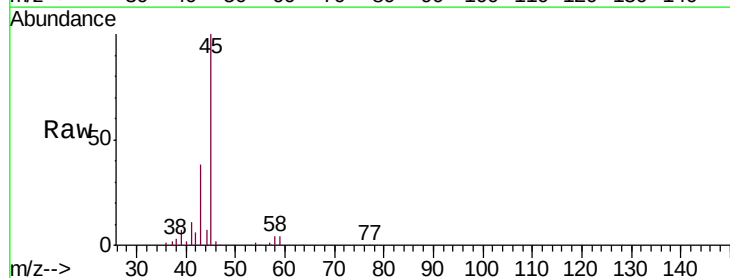
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

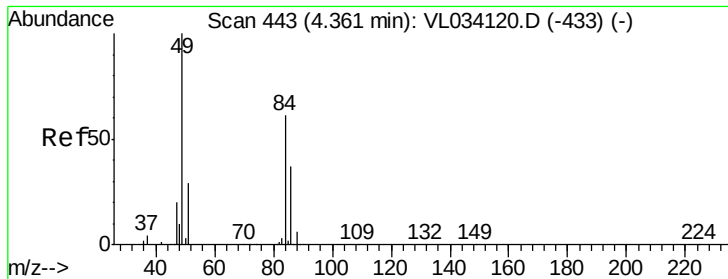
Tgt Ion: 59 Resp: 53086
 Ion Ratio Lower Upper
 59 100
 57 12.7 8.6 12.8



#19
 Isopropyl Alcohol
 Concen: 1.386 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. -0.00 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

Tgt Ion: 45 Resp: 85547
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.0 1.6#

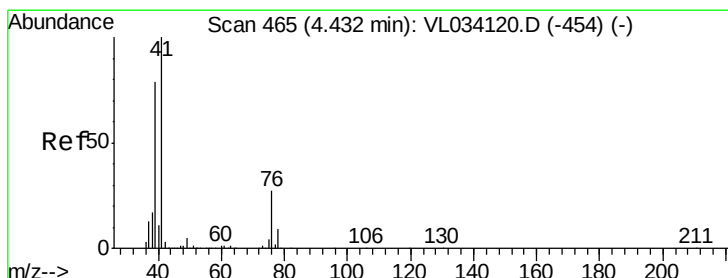
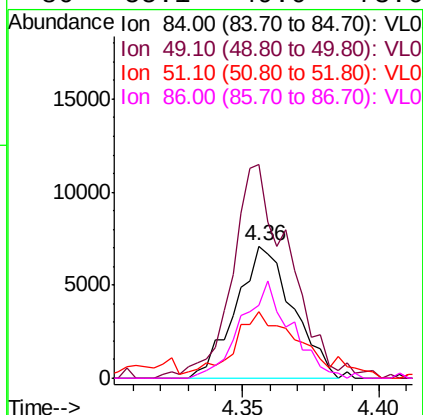
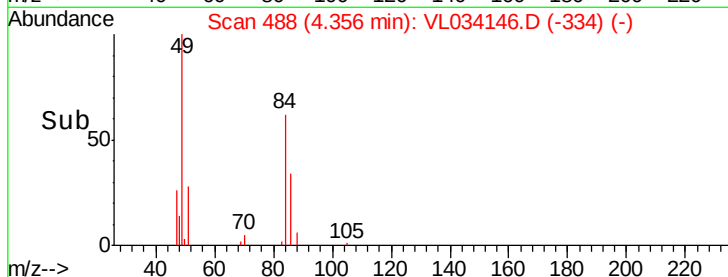
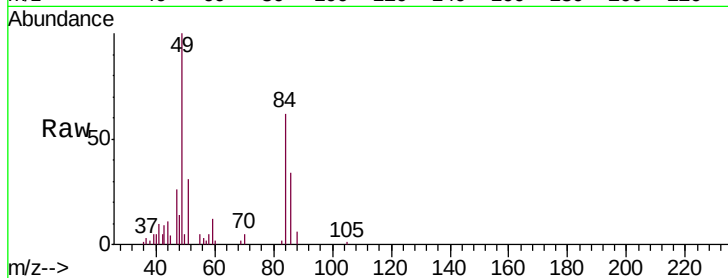




#20
Methylene Chloride
Concen: 0.340 ppbv
RT: 4.36 min Scan# 488
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

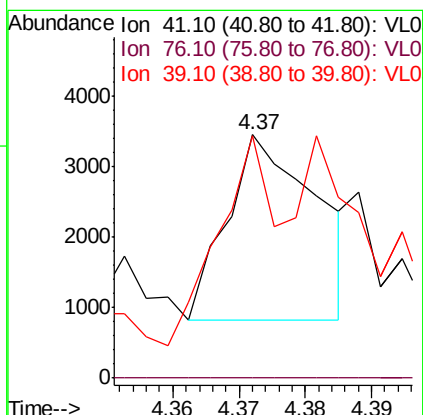
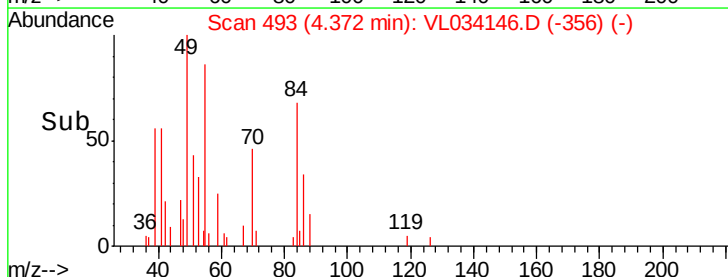
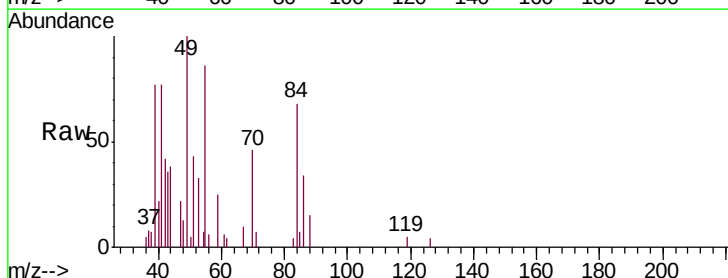
Instrument :
MSVOA_L
ClientSampled :
SV1DL

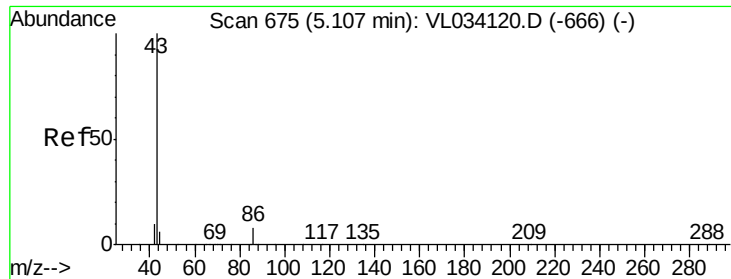
Tgt Ion: 84 Resp: 10283
Ion Ratio Lower Upper
84 100
49 153.0 131.0 196.6
51 46.0 38.1 57.1
86 55.1 49.0 73.6



#21
Allyl Chloride
Concen: 0.041 ppbv
RT: 4.37 min Scan# 493
Delta R.T. -0.06 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

Tgt Ion: 41 Resp: 2447
Ion Ratio Lower Upper
41 100
76 0.0 21.6 32.4#
39 307.2 65.0 97.4#





#23

Vinyl Acetate

Concen: 0.389 ppbv

RT: 5.13 min Scan# 729

Delta R.T. 0.02 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 43 Resp: 60373

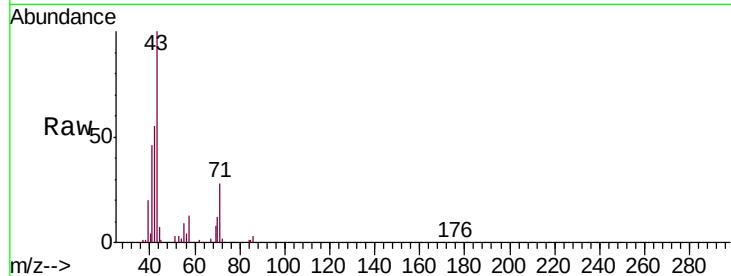
Ion Ratio Lower Upper

43 100

86 3.3 5.5 8.3#

42 56.9 8.2 12.4#

44 2.8 4.3 6.5#

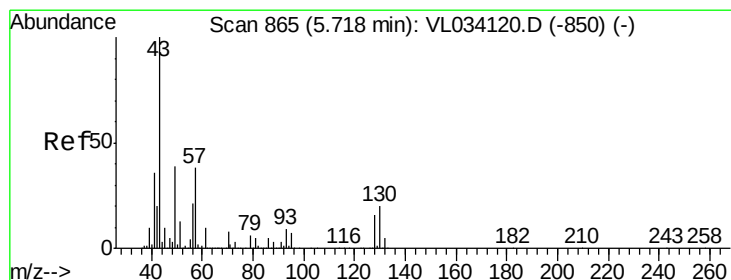
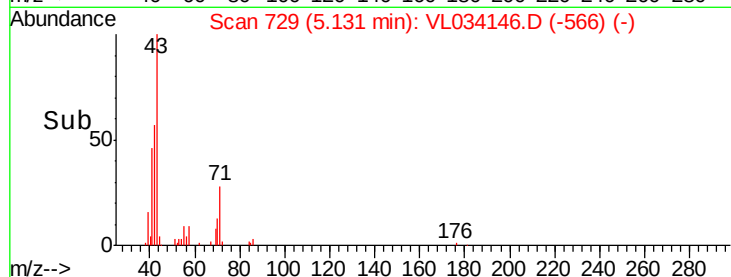
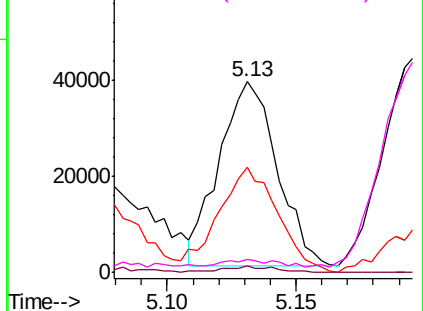


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.257 ppbv

RT: 5.72 min Scan# 912

Delta R.T. 0.00 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Tgt Ion: 43 Resp: 51575

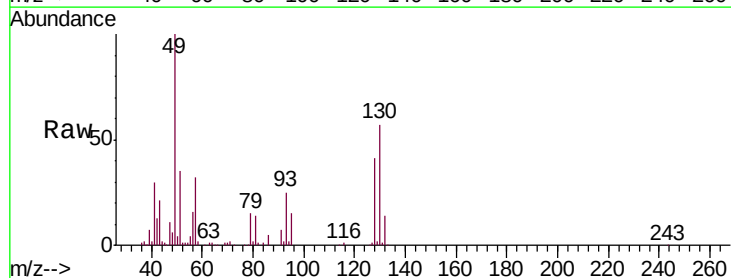
Ion Ratio Lower Upper

43 100

45 2.3 8.2 12.4#

61 0.5 7.4 11.2#

70 3.4 5.6 8.4#

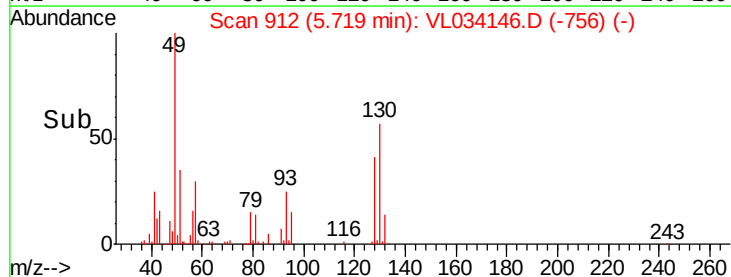
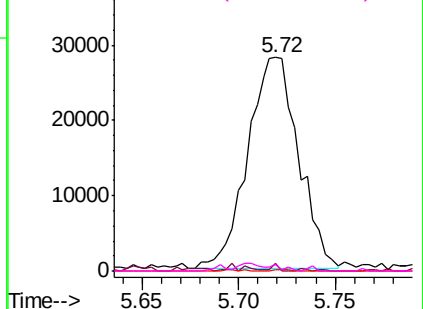


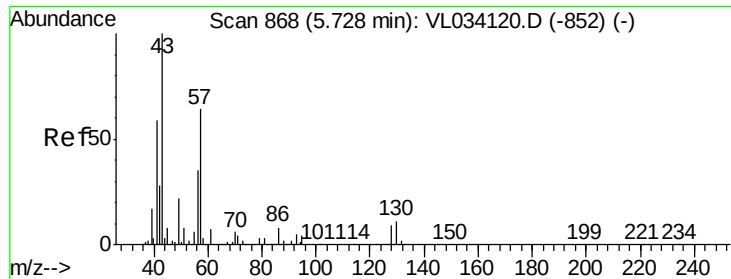
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

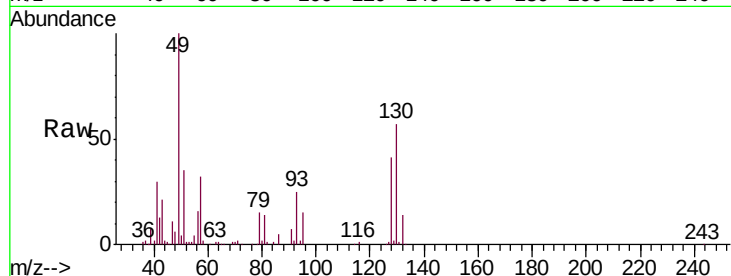




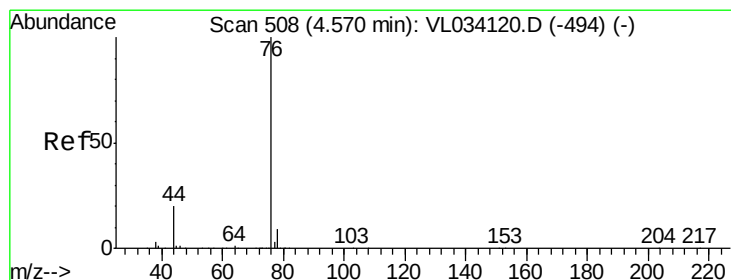
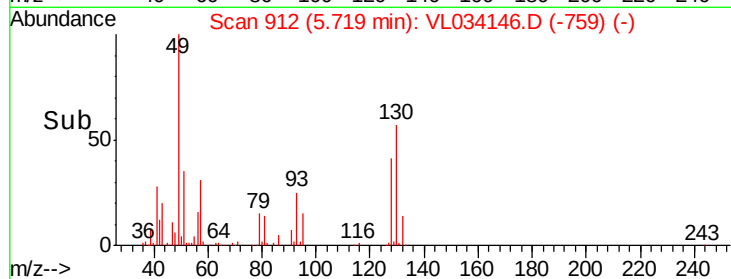
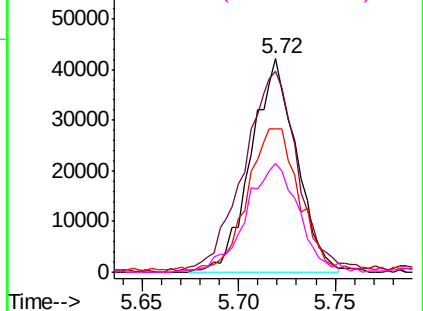
#26
Hexane
Concen: 0.768 ppbv
RT: 5.72 min Scan# 912
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 57 Resp: 68550
Ion Ratio Lower Upper
57 100
41 112.4 76.6 115.0
43 75.7 189.2 283.8#
56 59.8 43.0 64.4

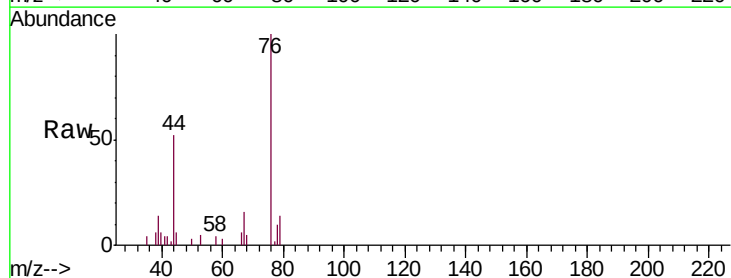


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

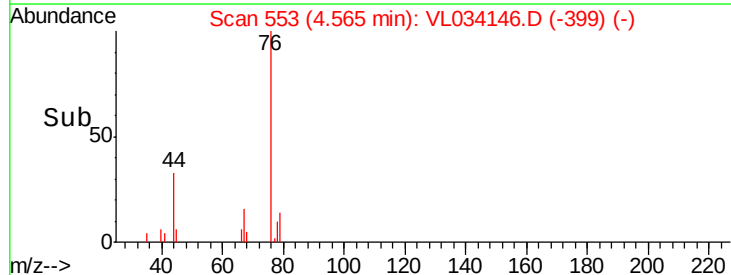
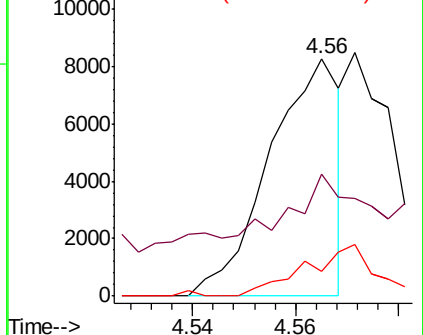


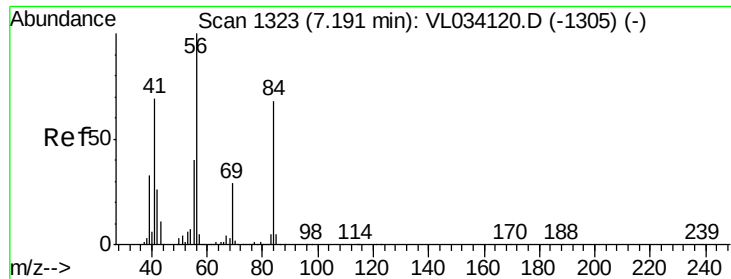
#27
Carbon Disulfide
Concen: 0.098 ppbv
RT: 4.56 min Scan# 553
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

Tgt Ion: 76 Resp: 7884
Ion Ratio Lower Upper
76 100
44 81.6 17.6 26.4#
78 0.0 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

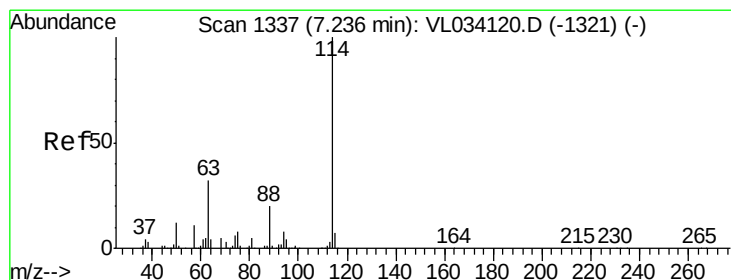
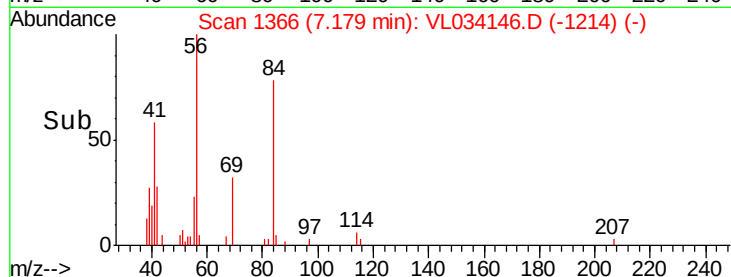
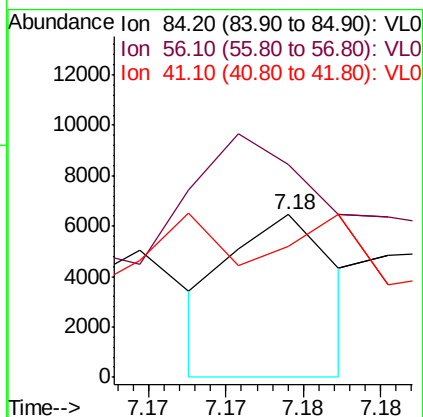
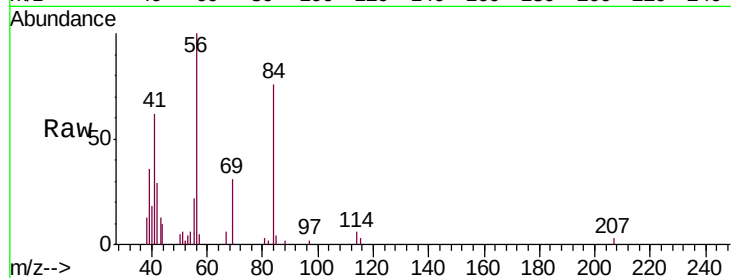




#30
Cyclohexane
Concen: 0.048 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

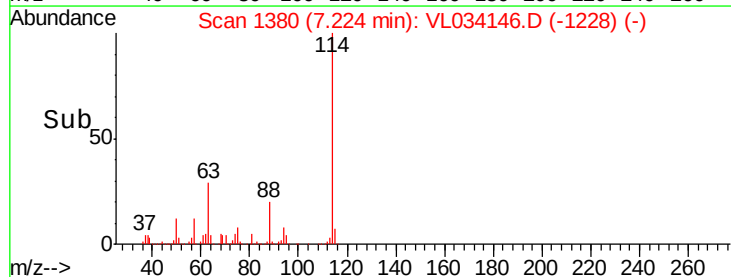
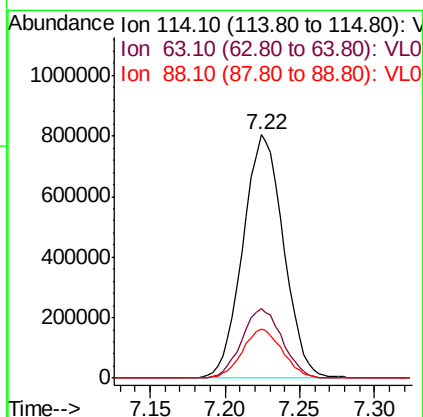
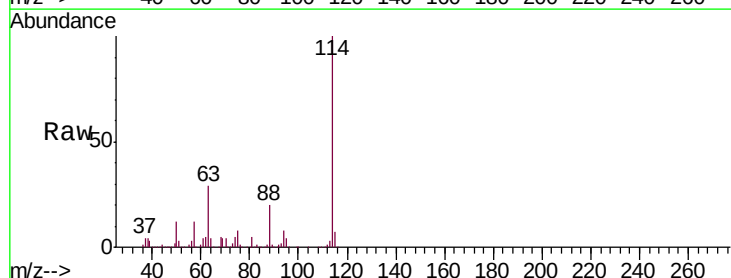
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

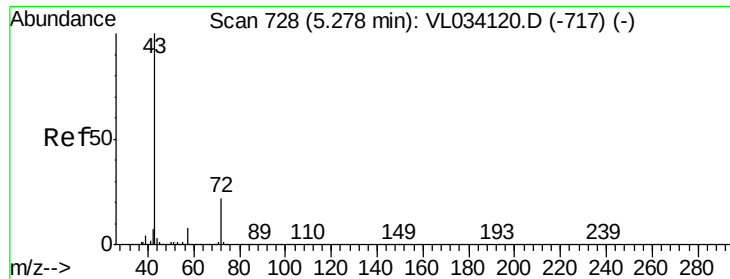
Tgt Ion: 84 Resp: 3065
Ion Ratio Lower Upper
84 100
56 447.5 122.6 183.8#
41 507.5 79.1 118.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.22 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

Tgt Ion: 114 Resp: 1522675
Ion Ratio Lower Upper
114 100
63 28.4 25.5 38.3
88 19.9 16.8 25.2

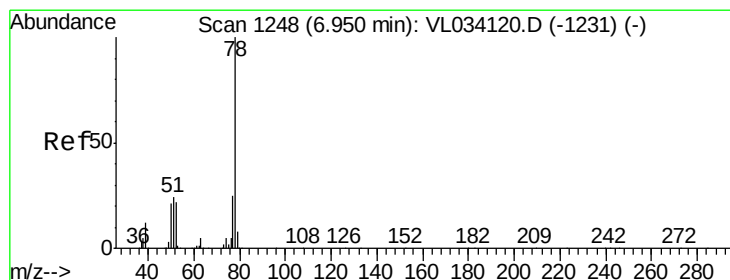
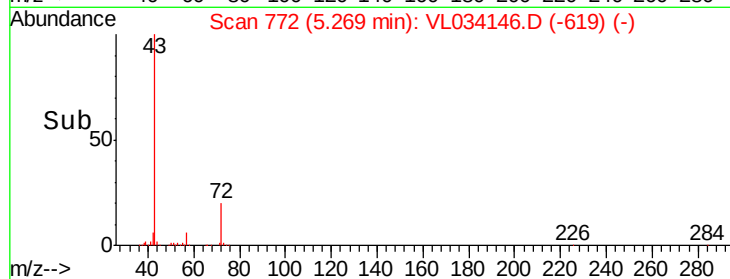
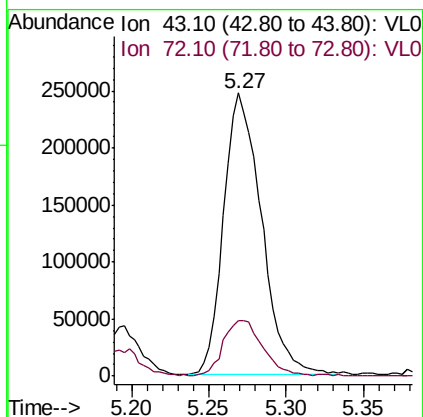
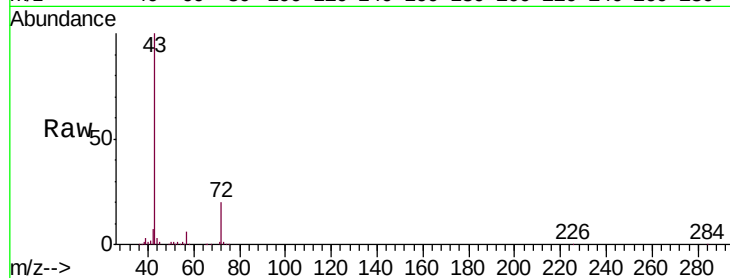




#34
 2-Butanone
 Concen: 2.858 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

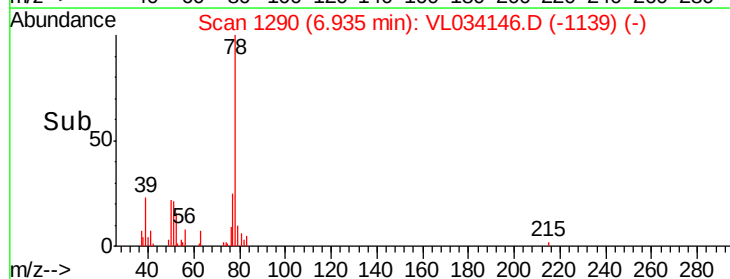
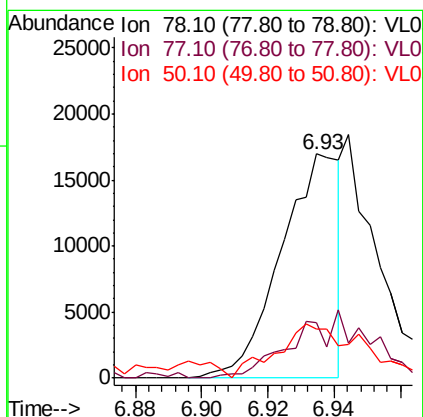
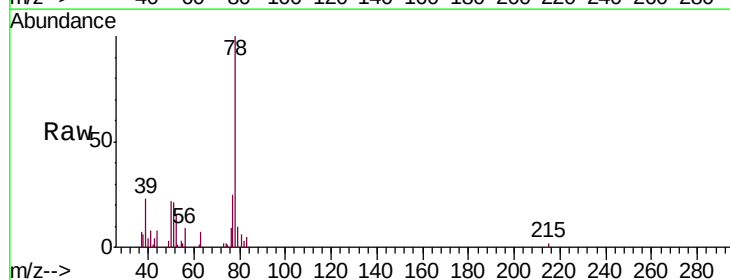
Instrument :
 MSVOA_L
 ClientSampled :
 SV1DL

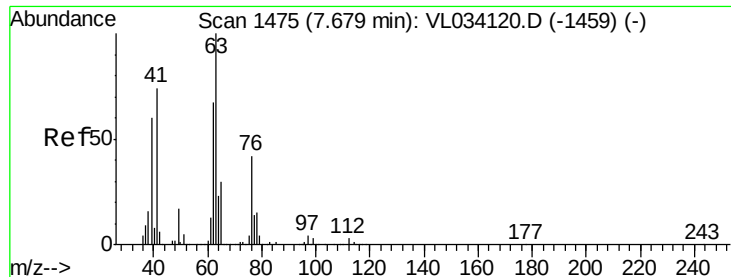
Tgt Ion: 43 Resp: 418387
 Ion Ratio Lower Upper
 43 100
 72 21.3 16.5 24.7



#36
 Benzene
 Concen: 0.120 ppbv
 RT: 6.93 min Scan# 1290
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

Tgt Ion: 78 Resp: 20932
 Ion Ratio Lower Upper
 78 100
 77 25.0 20.3 30.5
 50 12.4 16.9 25.3#





#39

1,2-Dichloropropane

Concen: 5.783 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.46 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

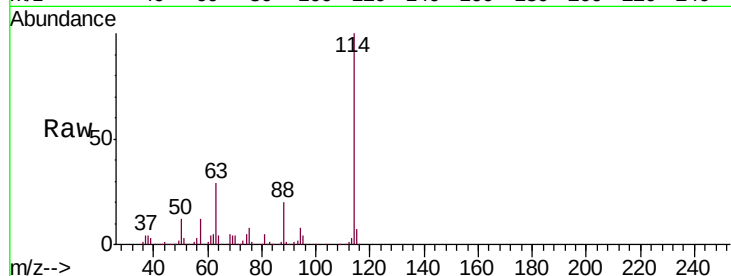
Tgt Ion: 63 Resp: 430740

Ion Ratio Lower Upper

63 100

41 0.0 59.3 88.9#

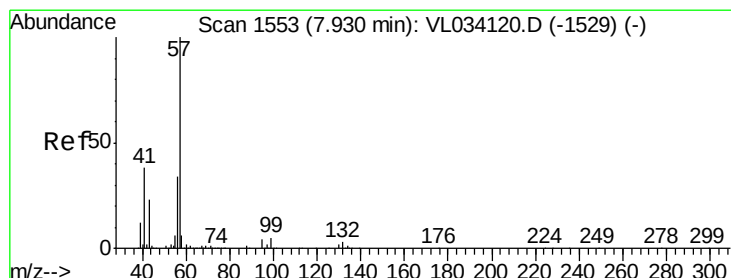
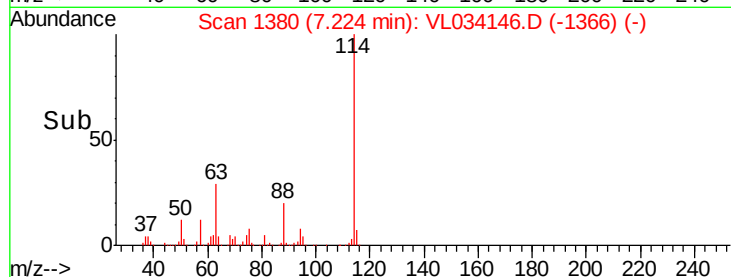
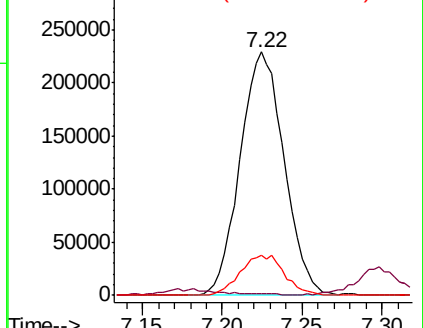
62 16.6 53.8 80.6#



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: 0.061 ppbv

RT: 7.92 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

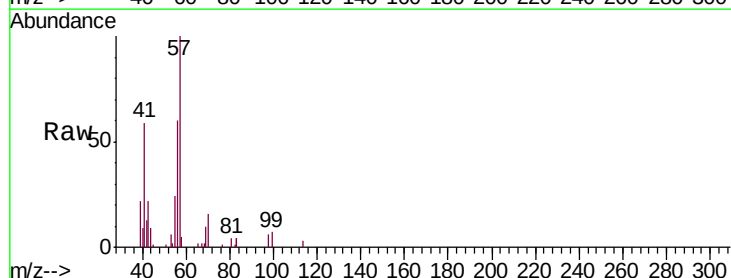
Tgt Ion: 57 Resp: 19629

Ion Ratio Lower Upper

57 100

41 92.6 28.4 42.6#

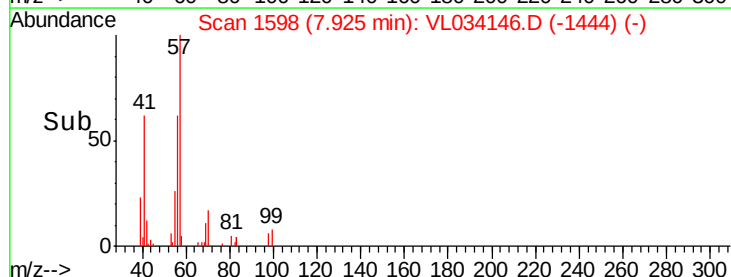
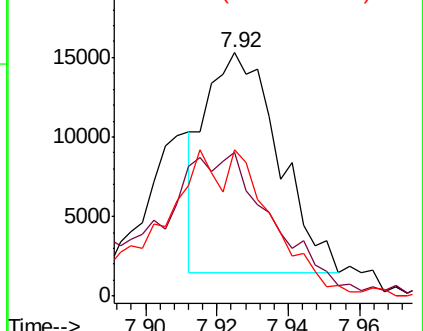
56 90.3 26.3 39.5#

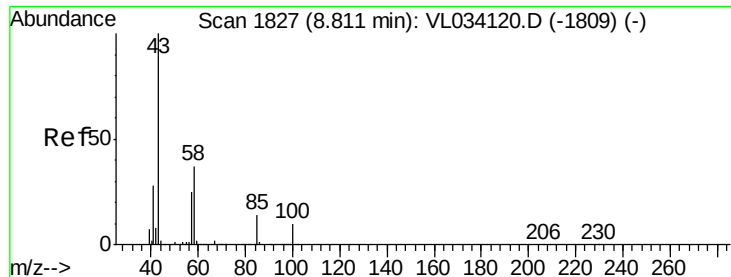


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

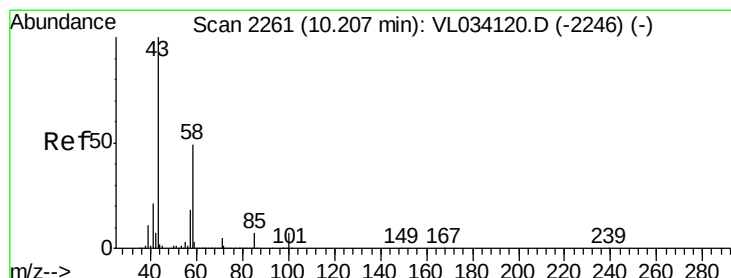
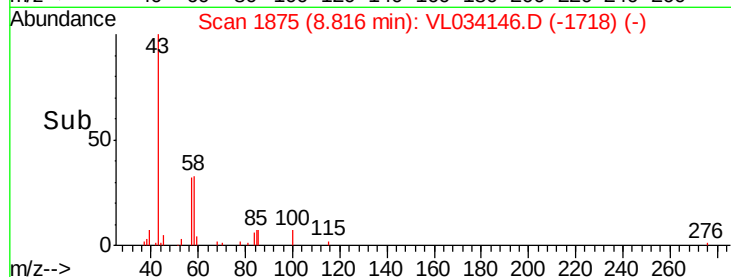
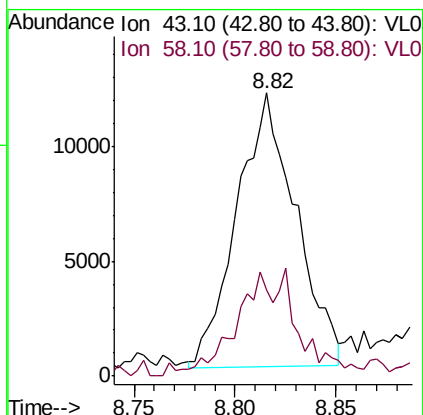
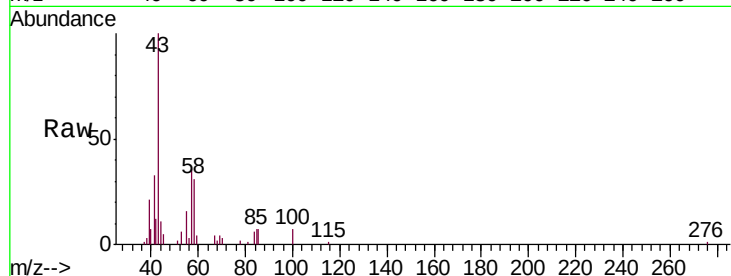




#50
 4-Methyl-2-Pentanone
 Concen: 0.109 ppbv
 RT: 8.82 min Scan# 1875
 Delta R.T. 0.00 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

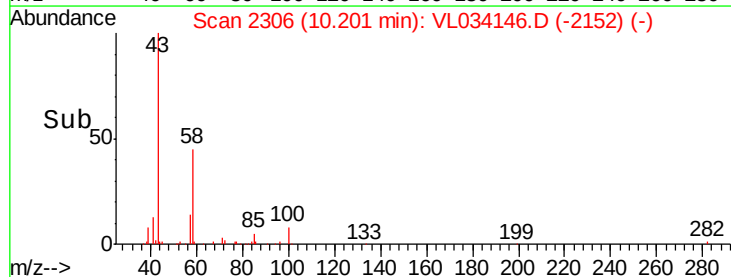
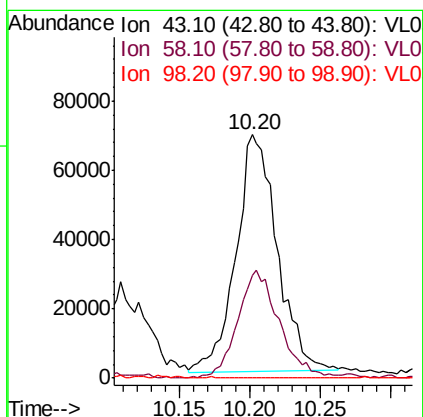
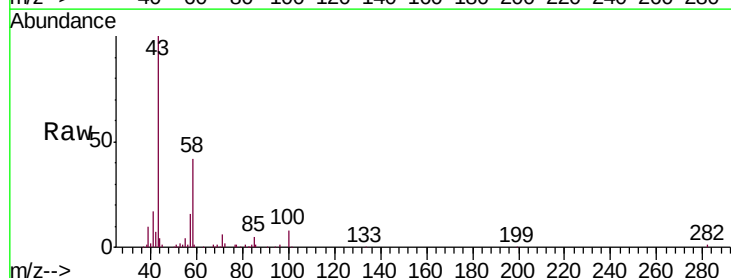
Instrument :
 MSVOA_L
 ClientSampleID :
 SV1DL

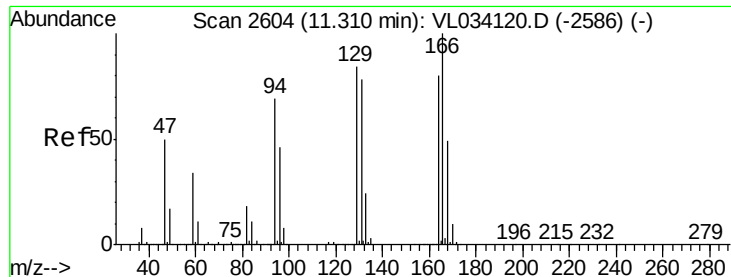
Tgt Ion: 43 Resp: 24414
 Ion Ratio Lower Upper
 43 100
 58 43.3 28.5 42.7#



#51
 2-Hexanone
 Concen: 0.723 ppbv
 RT: 10.20 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

Tgt Ion: 43 Resp: 139426
 Ion Ratio Lower Upper
 43 100
 58 47.4 38.2 57.2
 98 0.2 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.547 ppbv

RT: 11.29 min Scan# 2646

Delta R.T. -0.01 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:164 Resp: 33565

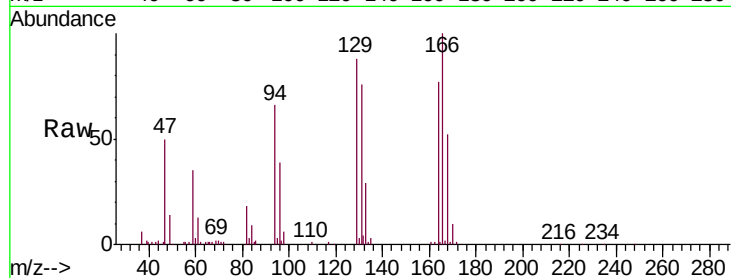
Ion Ratio Lower Upper

164 100

166 128.9 99.5 149.3

129 111.8 83.6 125.4

131 104.3 77.9 116.9

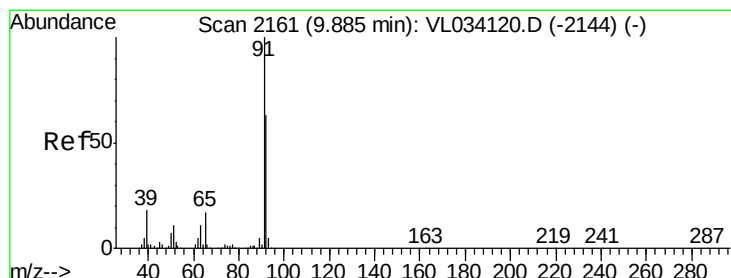
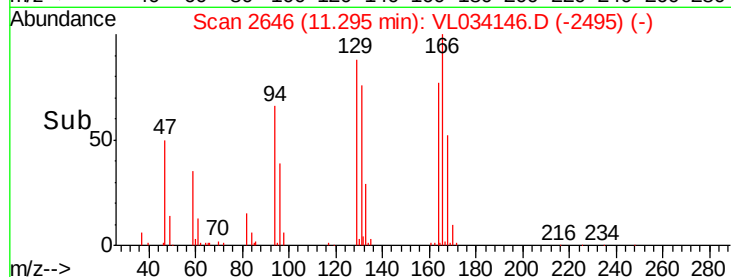
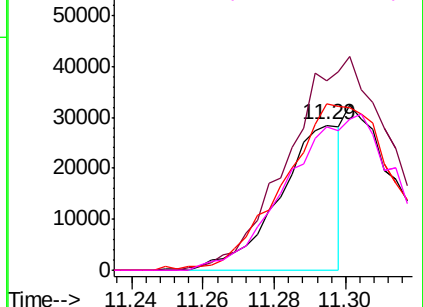


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.344 ppbv

RT: 9.87 min Scan# 2202

Delta R.T. -0.02 min

Lab File: VL034146.D

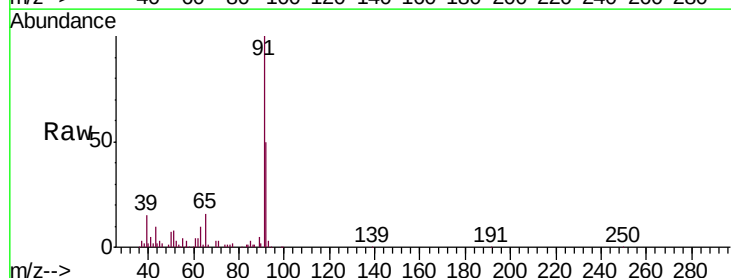
Acq: 10 Sep 2019 17:12

Tgt Ion: 91 Resp: 66135

Ion Ratio Lower Upper

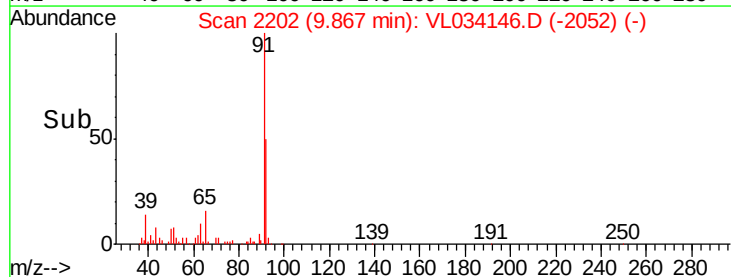
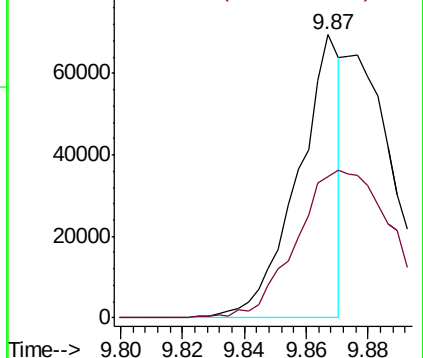
91 100

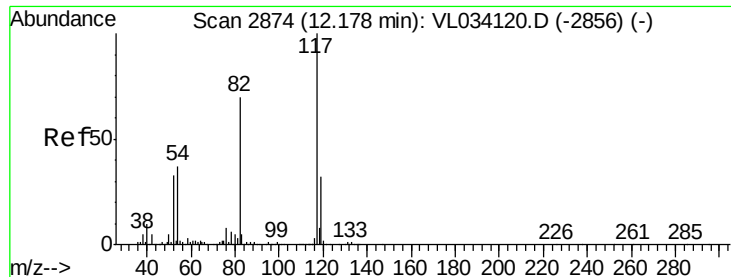
92 119.1 49.3 73.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

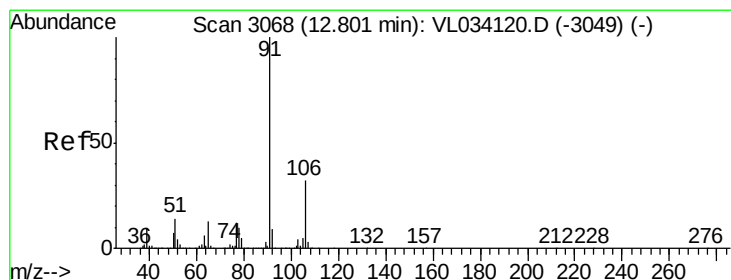
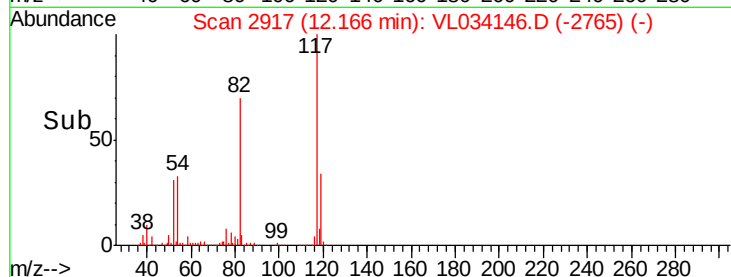
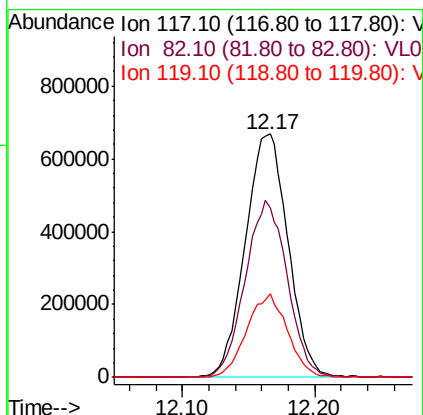
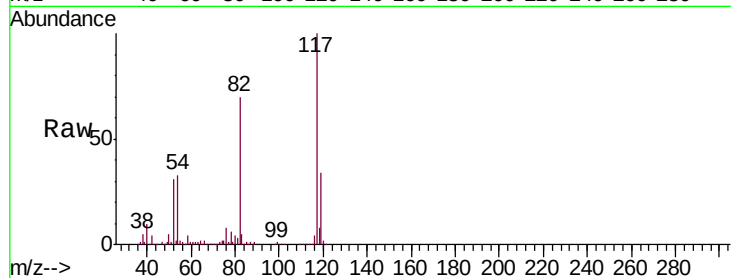




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

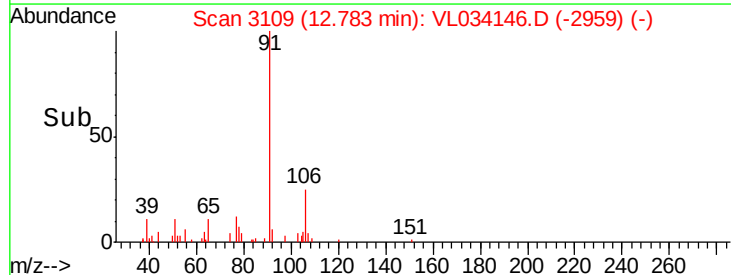
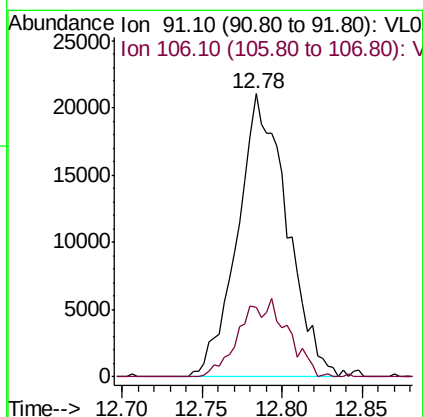
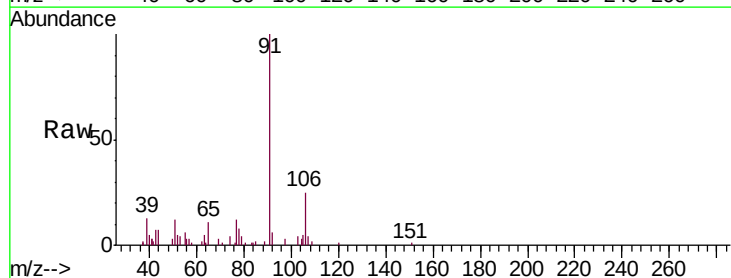
Instrument :
MSVOA_L
ClientSampled :
SV1DL

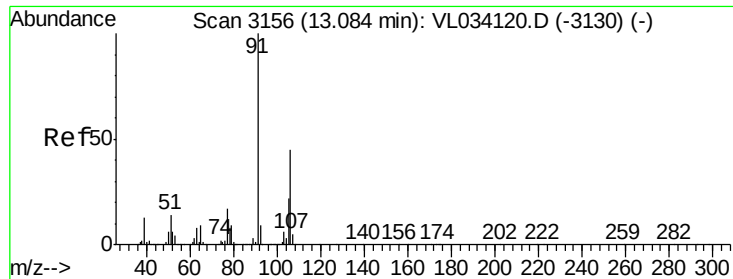
Tgt Ion: 117 Resp: 1501881
Ion Ratio Lower Upper
117 100
82 71.8 55.8 83.6
119 32.8 43.1 64.7#



#58
Ethyl Benzene
Concen: 0.181 ppbv
RT: 12.78 min Scan# 3109
Delta R.T. -0.02 min
Lab File: VL034146.D
Acq: 10 Sep 2019 17:12

Tgt Ion: 91 Resp: 44517
Ion Ratio Lower Upper
91 100
106 24.5 25.3 37.9#





#59

m/p-Xylene

Concen: 0.126 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.01 min

Lab File: VL034146.D

Acq: 10 Sep 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

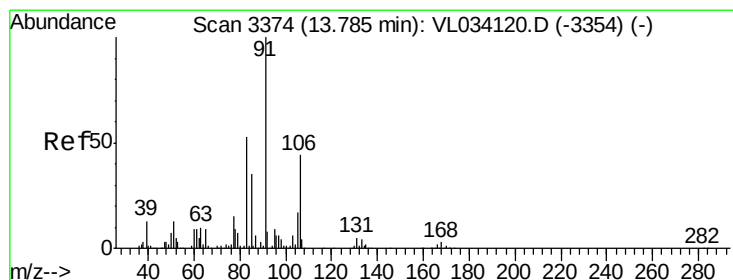
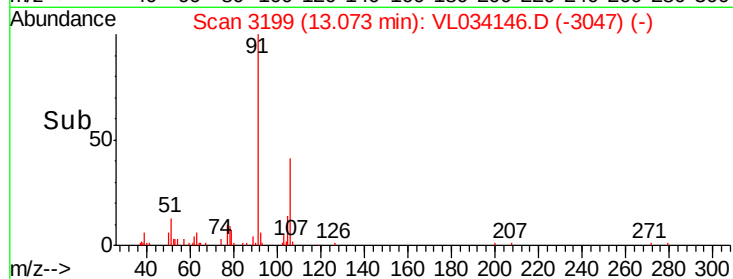
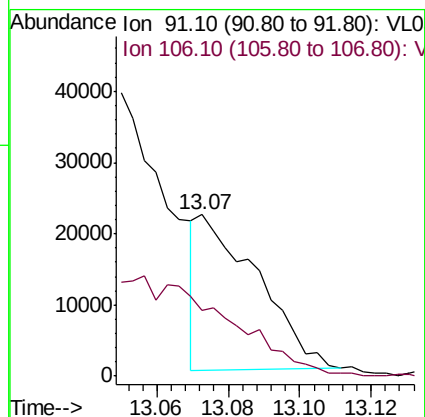
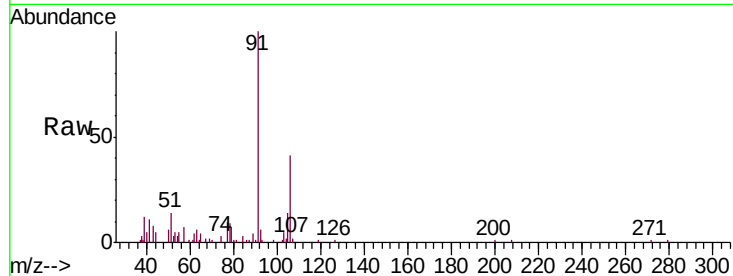
SV1DL

Tgt Ion: 91 Resp: 25364

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.225 ppbv

RT: 13.77 min Scan# 3417

Delta R.T. -0.01 min

Lab File: VL034146.D

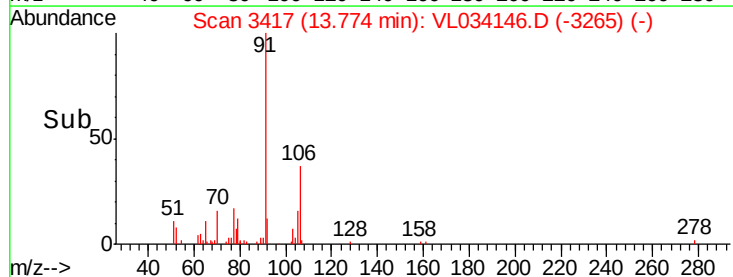
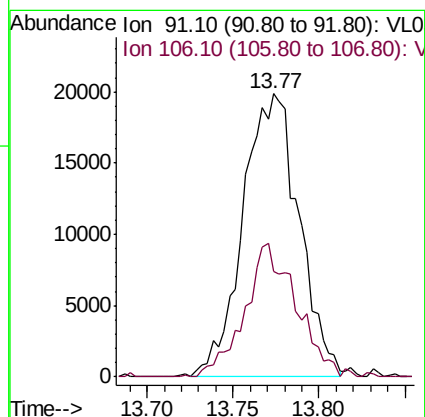
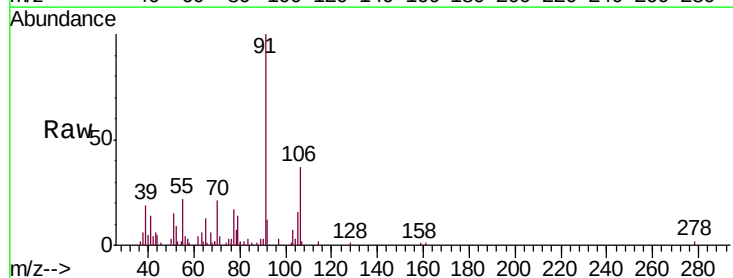
Acq: 10 Sep 2019 17:12

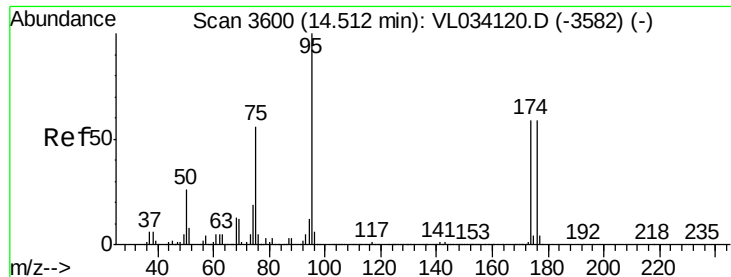
Tgt Ion: 91 Resp: 44972

Ion Ratio Lower Upper

91 100

106 43.5 21.4 64.3

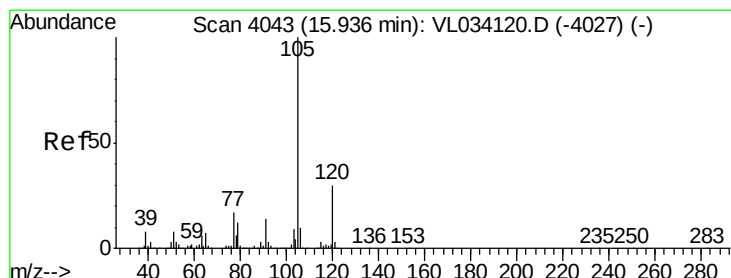
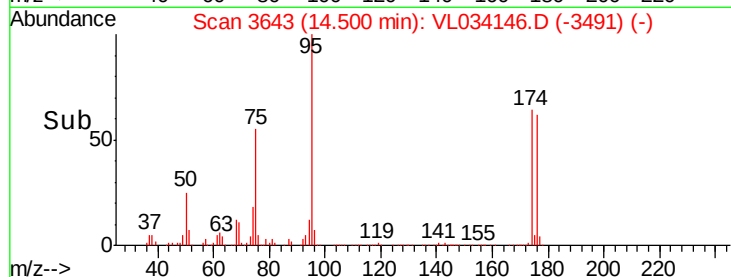
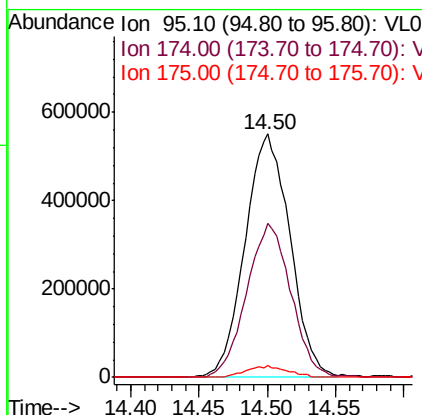
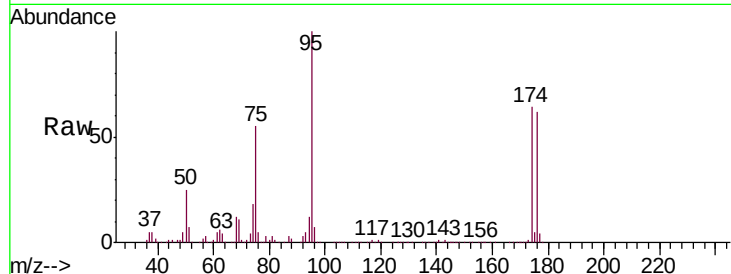




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.236 ppbv
 RT: 14.50 min Scan# 3643
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

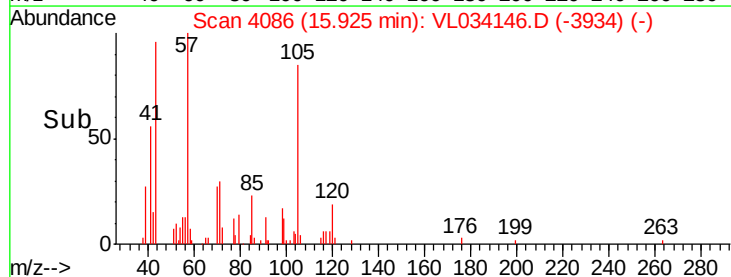
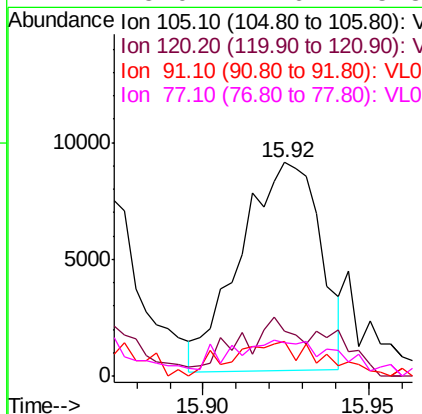
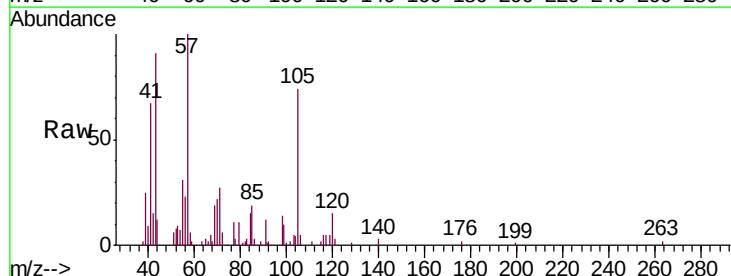
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

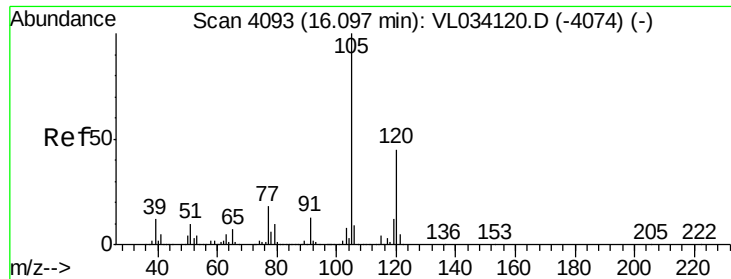
Tgt Ion: 95 Resp: 1256730
 Ion Ratio Lower Upper
 95 100
 174 62.8 48.1 72.1
 175 4.5 3.5 5.3



#72
 4-Ethyltoluene
 Concen: 0.066 ppbv
 RT: 15.92 min Scan# 4086
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

Tgt Ion: 105 Resp: 15004
 Ion Ratio Lower Upper
 105 100
 120 31.2 23.8 35.6
 91 19.4 11.4 17.0#
 77 25.0 12.6 18.8#

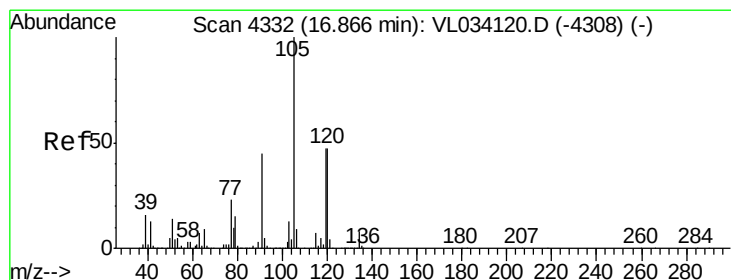
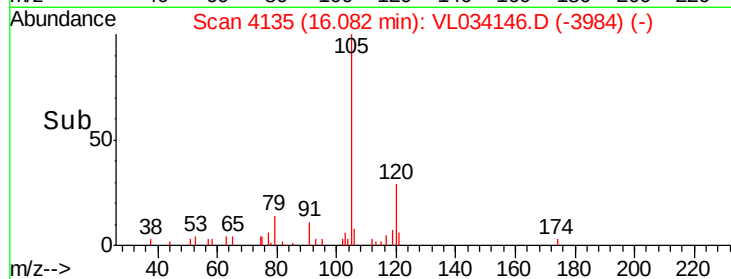
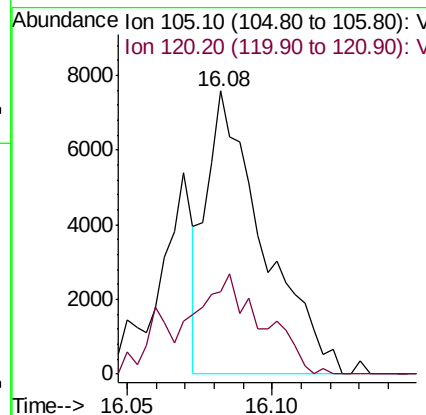
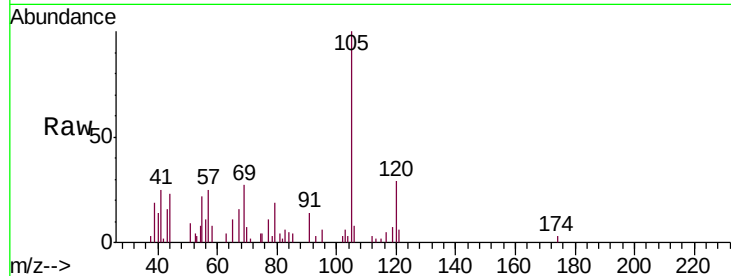




#73
 1,3,5-Trimethylbenzene
 Concen: 0.047 ppbv
 RT: 16.08 min Scan# 4135
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion:105 Resp: 10292
 Ion Ratio Lower Upper
 105 100
 120 29.0 35.8 53.8#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.01 min
 Lab File: VL034146.D
 Acq: 10 Sep 2019 17:12

Tgt Ion:105 Resp: 20484
 Ion Ratio Lower Upper
 105 100
 120 34.4 37.7 56.5#
 91 7.4 36.2 54.2#
 77 13.0 18.5 27.7#

