

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034238.D
 Acq On : 8 Oct 2019 1:37
 Operator : SY/AP
 Sample : K5222-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-1DL

Quant Time: Oct 09 02:23:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1053602	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.21	114	1734817	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1753988	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1583779	10.39	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

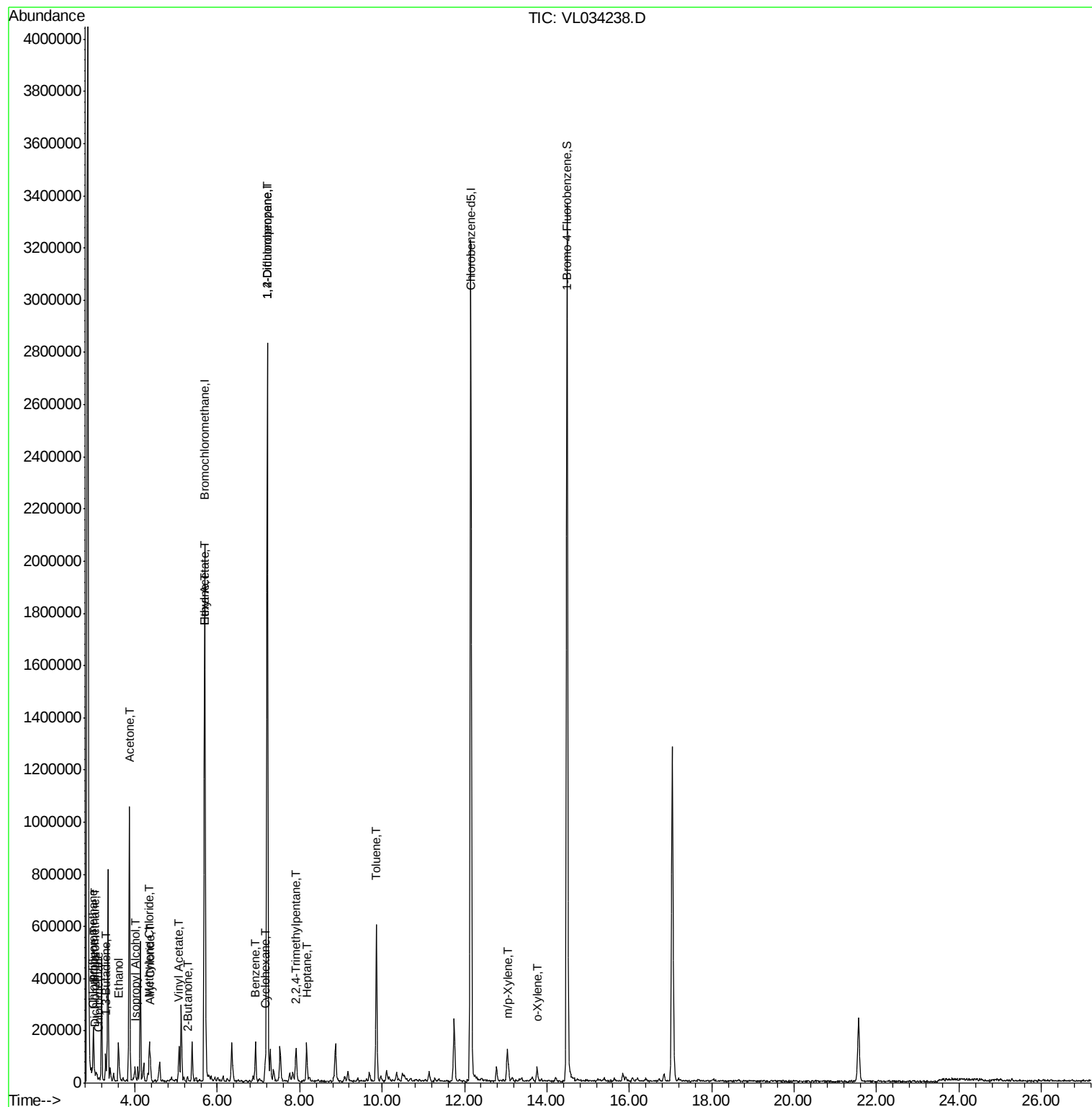
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	12354	0.079	ppbv	92
3) Chlorodifluoromethane	2.97	51	18141	0.147	ppbv #	77
4) Chloromethane	3.13	50	5268	0.073	ppbv #	75
9) Propene	2.99	41	77685	1.275	ppbv	90
10) Heptane	8.17	43	52474	0.330	ppbv	92
13) Ethanol	3.60	45	156830	10.626	ppbv	94
15) Acetone	3.87	43	495821	3.511	ppbv #	72
16) 1,3-Butadiene	3.31	39	7236	0.117	ppbv #	1
19) Isopropyl Alcohol	3.99	45	18971	0.218	ppbv #	1
20) Methylene Chloride	4.35	84	41474	1.019	ppbv #	93
21) Allyl Chloride	4.37	41	16007	0.201	ppbv #	49
23) Vinyl Acetate	5.07	43	23791	0.114	ppbv #	1
25) Ethyl Acetate	5.71	43	94767	0.355	ppbv #	85
26) Hexane	5.71	57	104087	0.937	ppbv #	46
30) Cyclohexane	7.17	84	13693	0.171	ppbv #	1
34) 2-Butanone	5.28	43	19392	0.109	ppbv #	91
36) Benzene	6.92	78	101400	0.529	ppbv	94
39) 1,2-Dichloropropane	7.21	63	585179	6.797	ppbv #	20
44) 2,2,4-Trimethylpentane	7.91	57	55013	0.149	ppbv #	33
53) Toluene	9.86	91	410551	1.961	ppbv	96
59) m/p-Xylene	13.07	91	12440	0.053	ppbv #	32
60) o-Xylene	13.77	91	13808	0.059	ppbv #	1

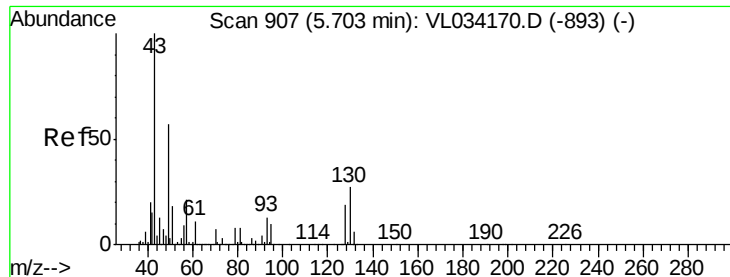
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

V-1DL

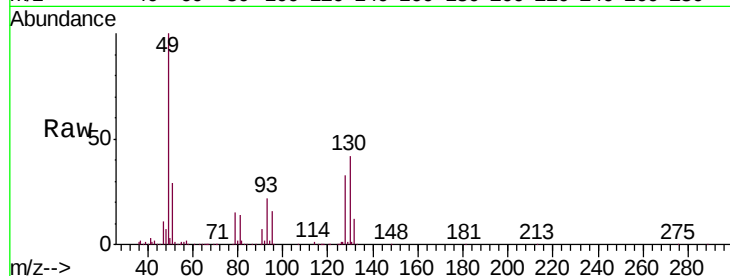
Tgt Ion: 49 Resp: 1053602

Ion Ratio Lower Upper

49 100

128 34.6 17.6 52.9

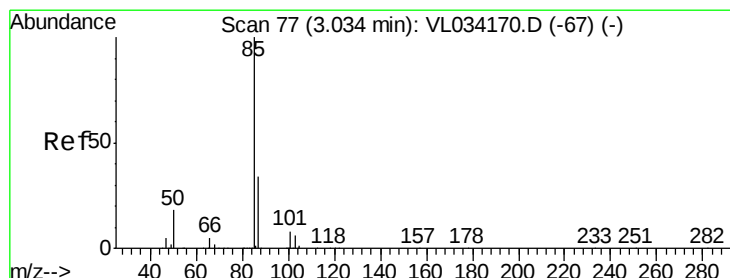
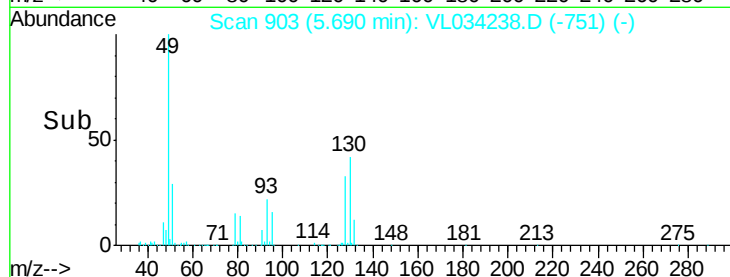
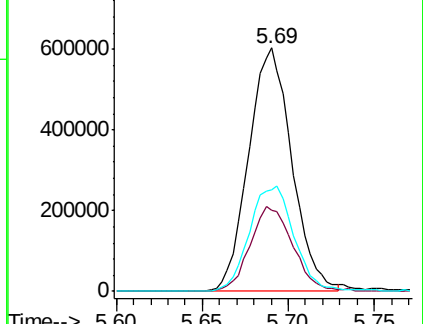
130 45.0 22.3 66.9



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: 0.079 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034238.D

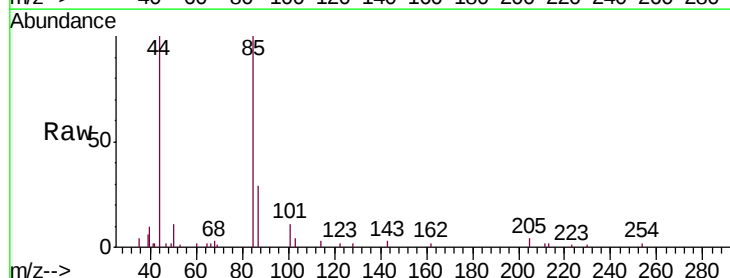
Acq: 8 Oct 2019 1:37

Tgt Ion: 85 Resp: 12354

Ion Ratio Lower Upper

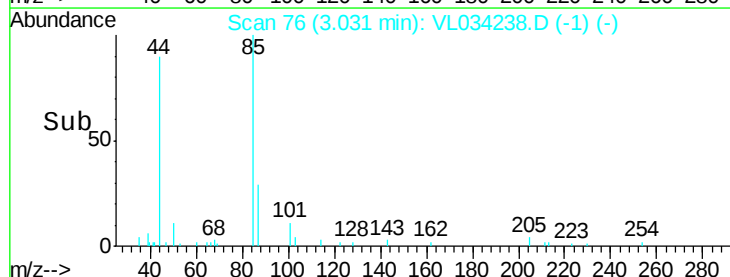
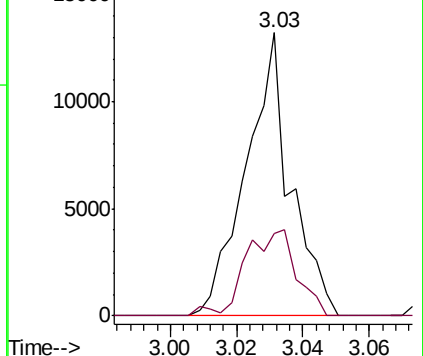
85 100

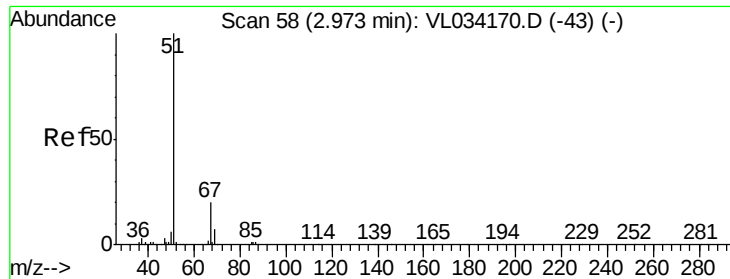
87 29.2 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.147 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

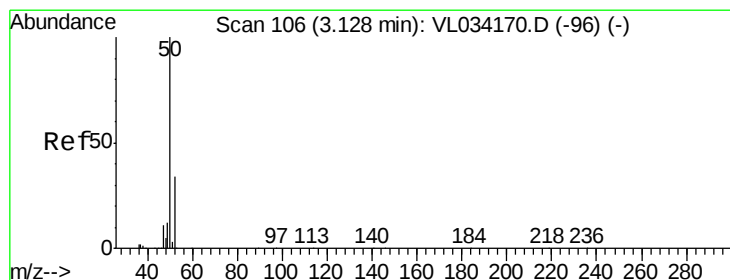
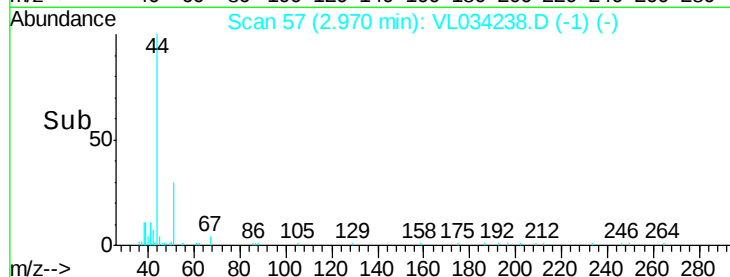
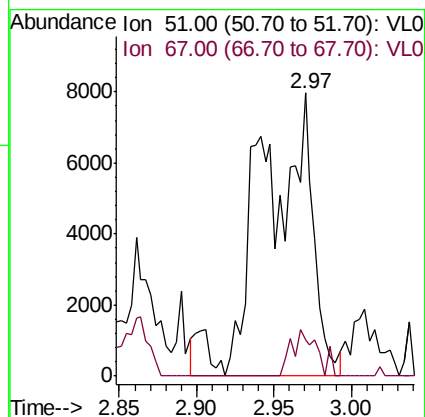
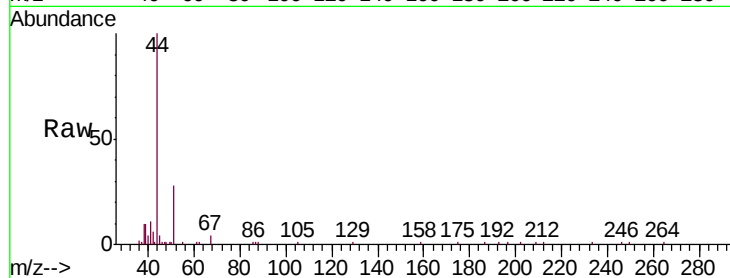
V-1DL

Tgt Ion: 51 Resp: 18141

Ion Ratio Lower Upper

51 100

67 8.4 14.8 22.2#



#4

Chloromethane

Concen: 0.073 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034238.D

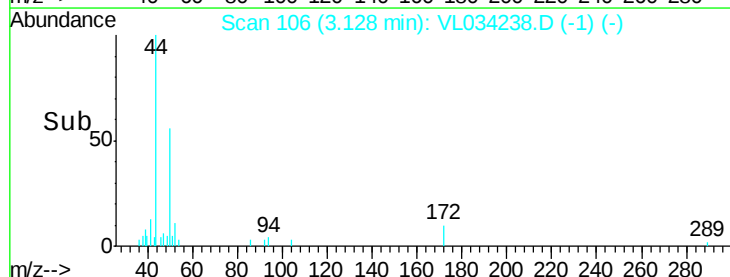
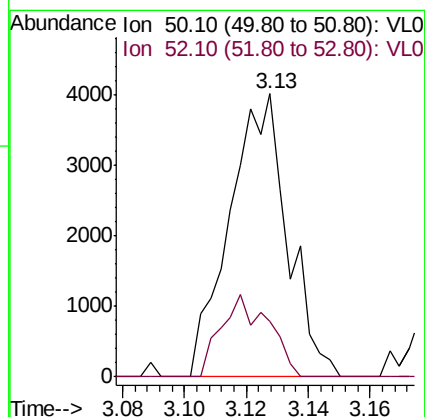
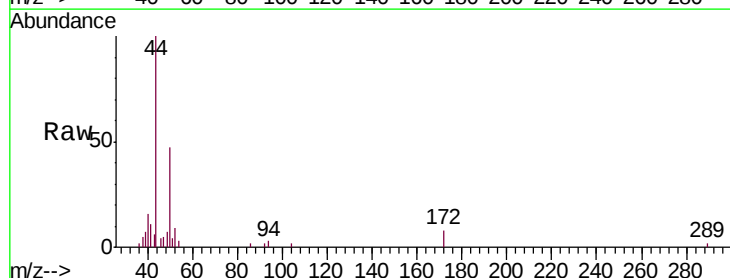
Acq: 8 Oct 2019 1:37

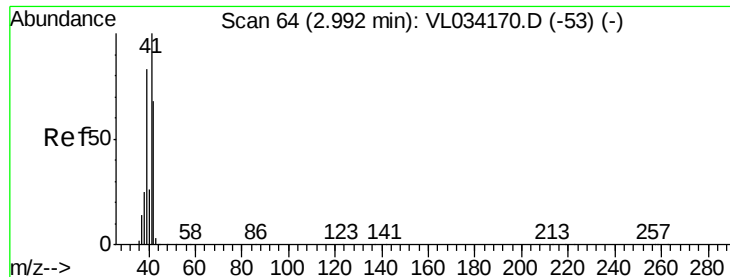
Tgt Ion: 50 Resp: 5268

Ion Ratio Lower Upper

50 100

52 19.7 27.1 40.7#





#9

Propene

Concen: 1.275 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

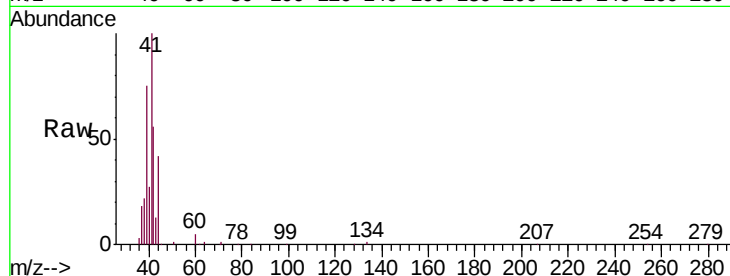
V-1DL

Tgt Ion: 41 Resp: 77685

Ion Ratio Lower Upper

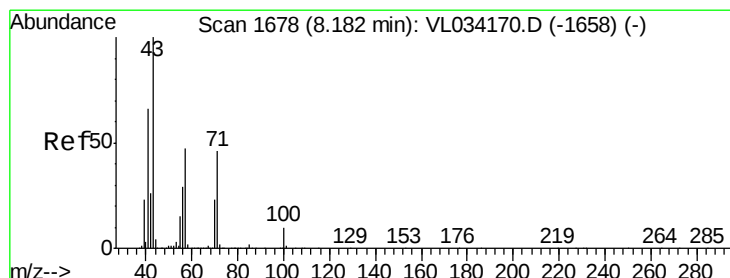
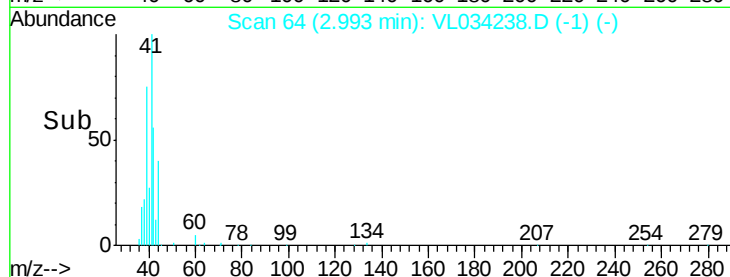
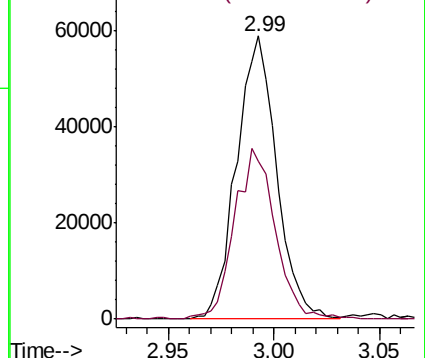
41 100

42 61.8 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.330 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. -0.02 min

Lab File: VL034238.D

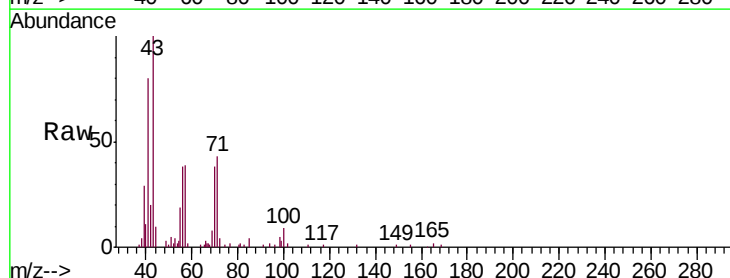
Acq: 8 Oct 2019 1:37

Tgt Ion: 43 Resp: 52474

Ion Ratio Lower Upper

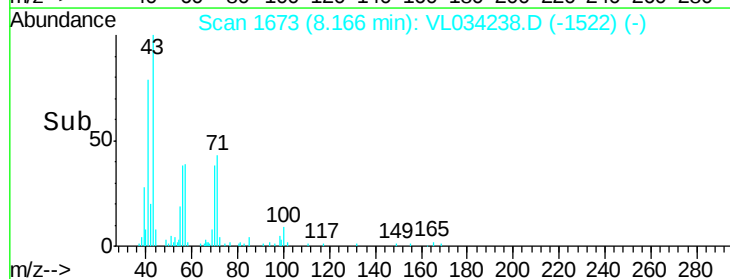
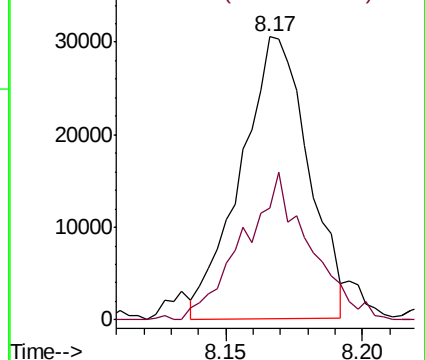
43 100

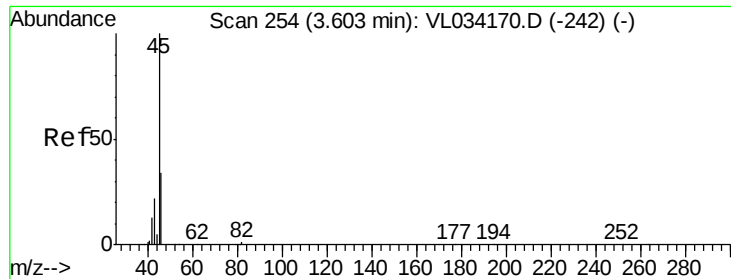
57 52.1 37.5 56.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 10.626 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

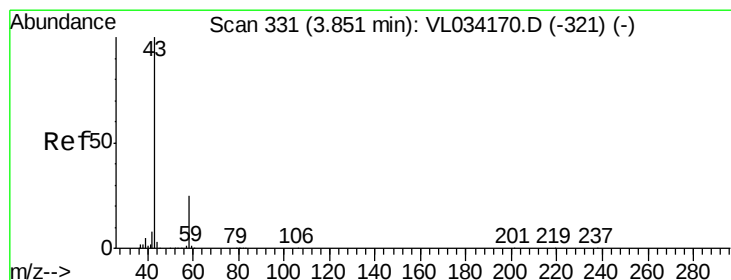
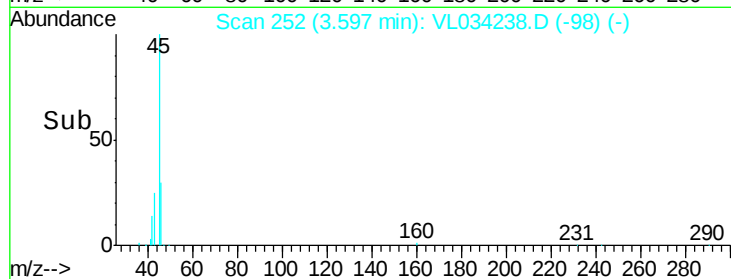
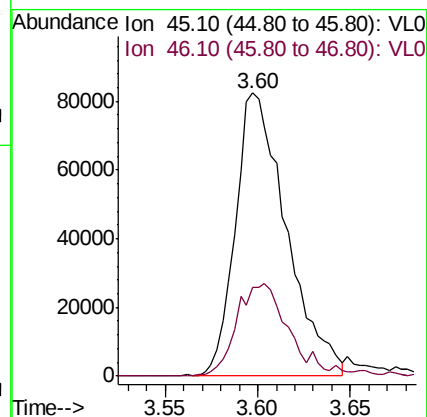
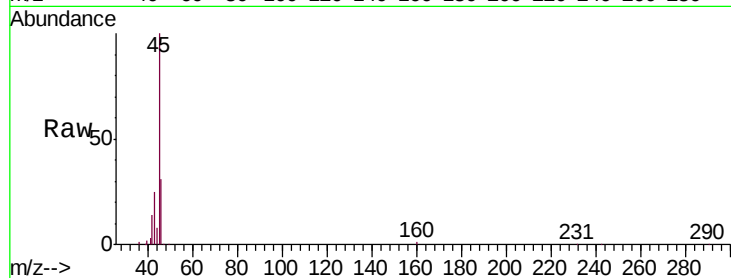
V-1DL

Tgt Ion: 45 Resp: 156830

Ion Ratio Lower Upper

45 100

46 34.9 15.5 61.9



#15

Acetone

Concen: 3.511 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.02 min

Lab File: VL034238.D

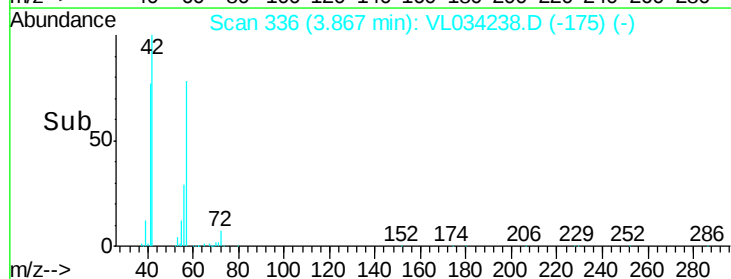
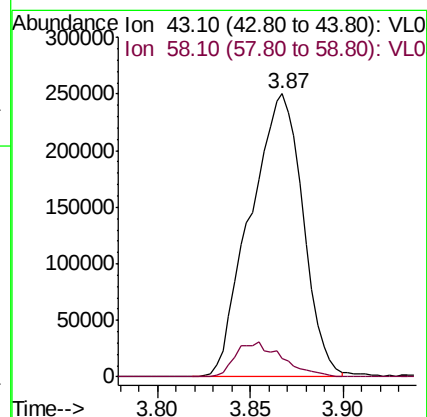
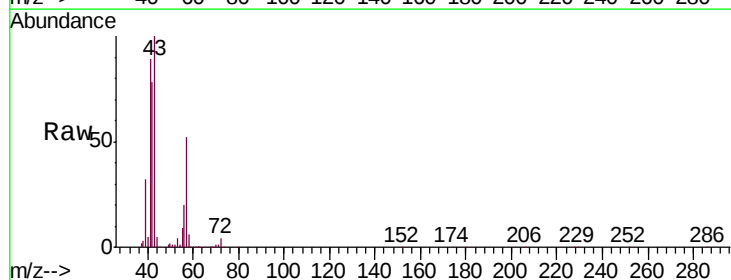
Acq: 8 Oct 2019 1:37

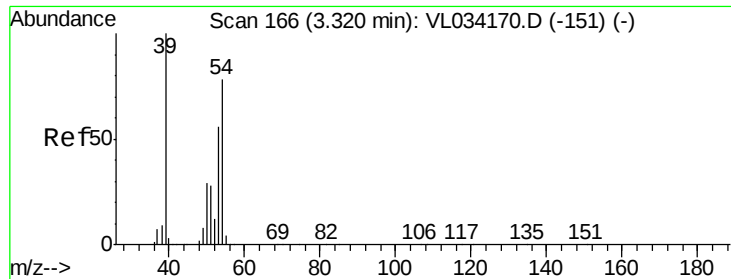
Tgt Ion: 43 Resp: 495821

Ion Ratio Lower Upper

43 100

58 11.3 20.5 30.7#

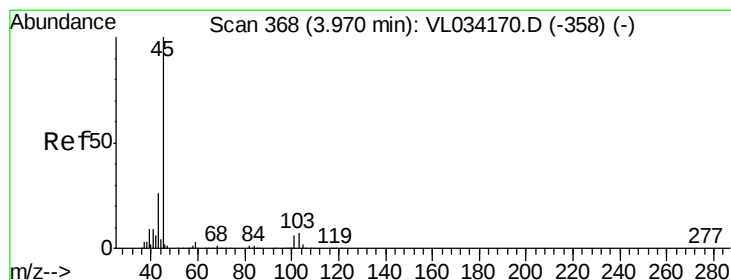
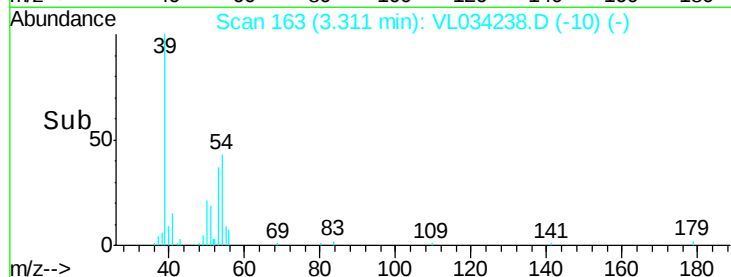
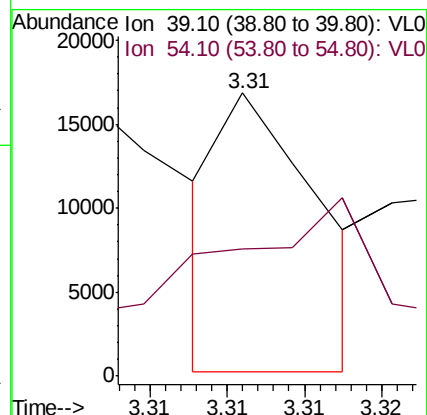
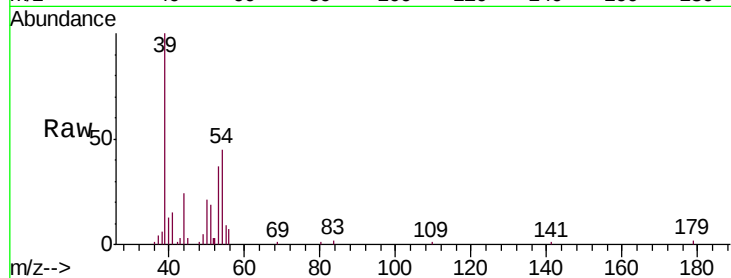




#16
1,3-Butadiene
Concen: 0.117 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.01 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

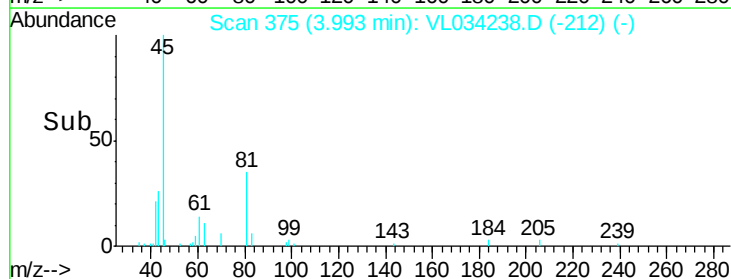
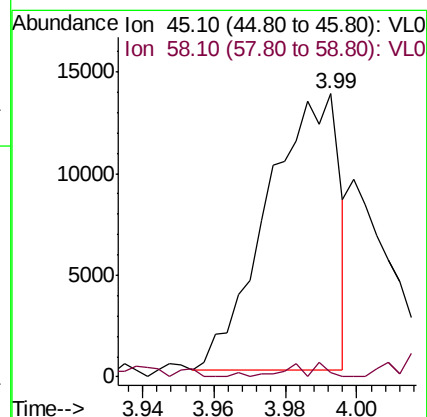
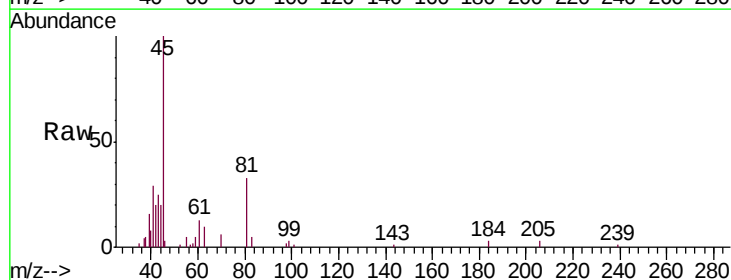
Instrument :
MSVOA_L
ClientSampleId :
V-1DL

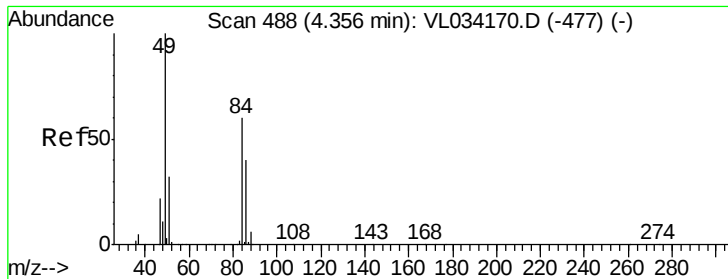
Tgt Ion: 39 Resp: 7236
Ion Ratio Lower Upper
39 100
54 183.0 63.4 95.0#



#19
Isopropyl Alcohol
Concen: 0.218 ppbv
RT: 3.99 min Scan# 375
Delta R.T. 0.02 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

Tgt Ion: 45 Resp: 18971
Ion Ratio Lower Upper
45 100
58 292.0 1.4 2.0#

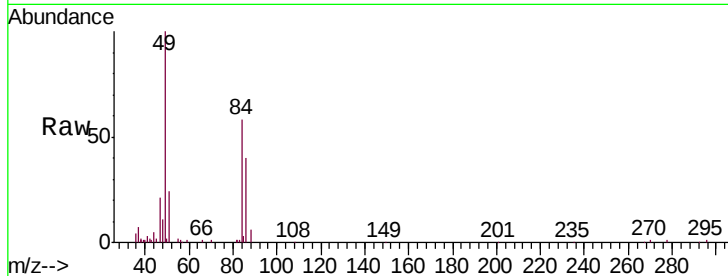




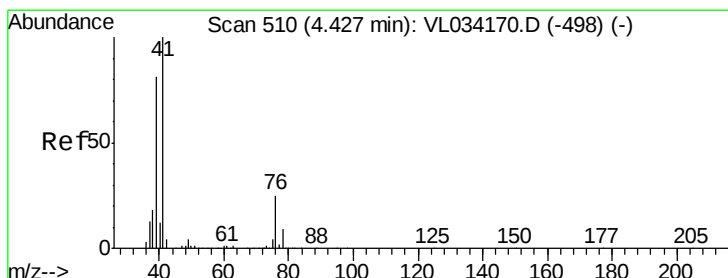
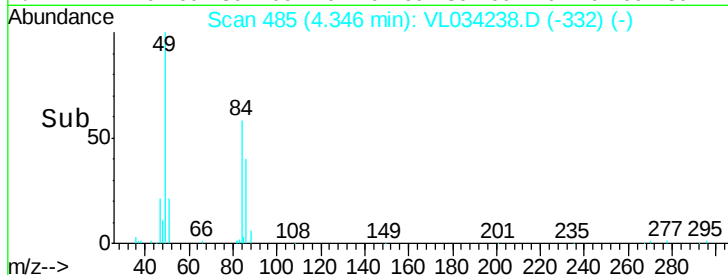
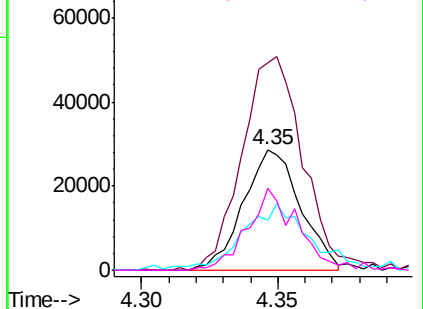
#20
Methylene Chloride
Concen: 1.019 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.01 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

Instrument :
MSVOA_L
ClientSampleId :
V-1DL

Tgt Ion: 84 Resp: 41474
Ion Ratio Lower Upper
84 100
49 172.1 133.8 200.8
51 37.9 43.6 65.4#
86 68.3 53.1 79.7

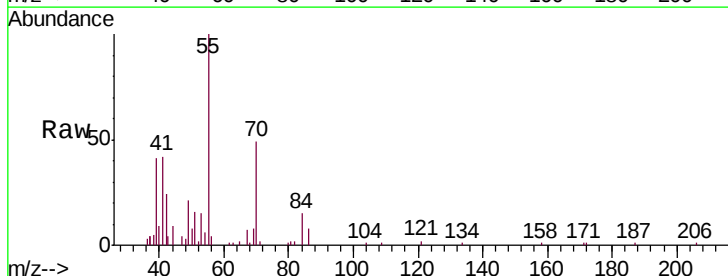


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

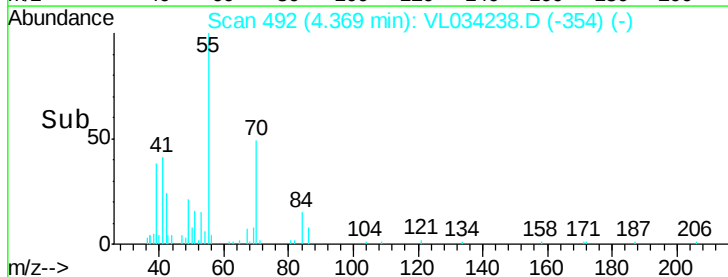
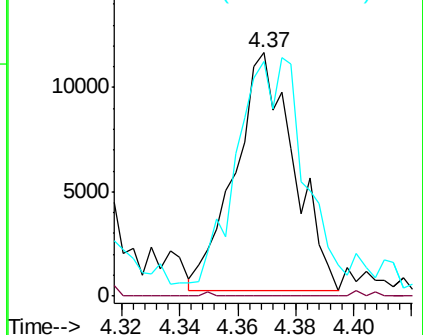


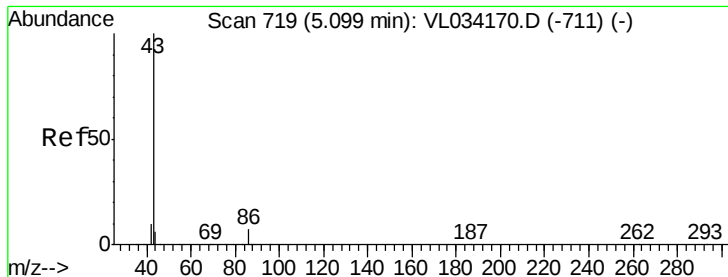
#21
Allyl Chloride
Concen: 0.201 ppbv
RT: 4.37 min Scan# 492
Delta R.T. -0.06 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

Tgt Ion: 41 Resp: 16007
Ion Ratio Lower Upper
41 100
76 0.6 21.8 32.6#
39 126.5 64.8 97.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.114 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.03 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

V-1DL

Tgt Ion: 43 Resp: 23791

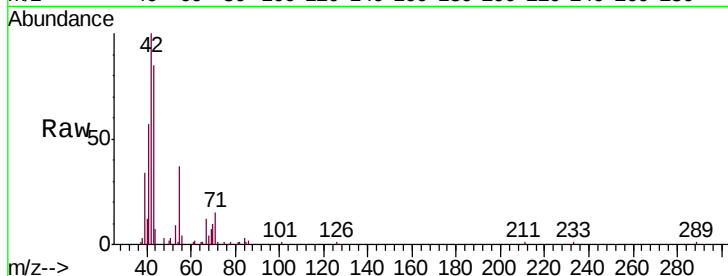
Ion Ratio Lower Upper

43 100

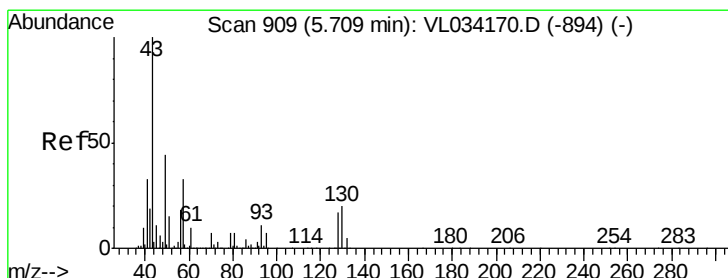
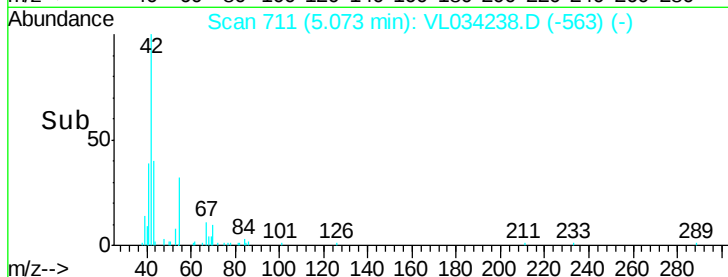
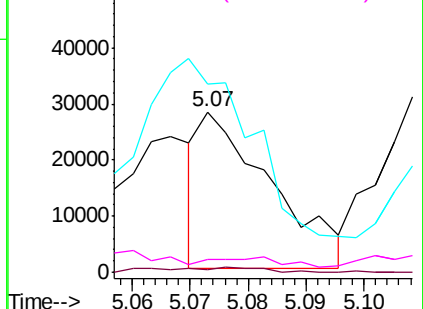
86 2.5 5.1 7.7#

42 123.5 8.6 12.8#

44 5.4 4.7 7.1



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: 0.355 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.00 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Tgt Ion: 43 Resp: 94767

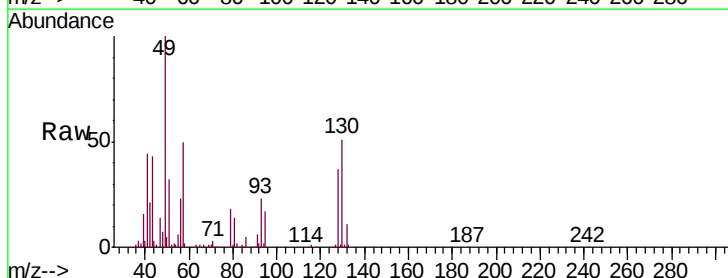
Ion Ratio Lower Upper

43 100

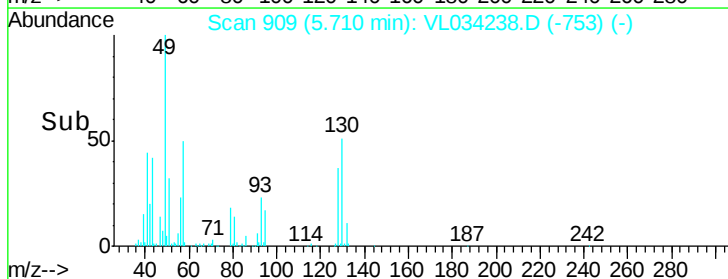
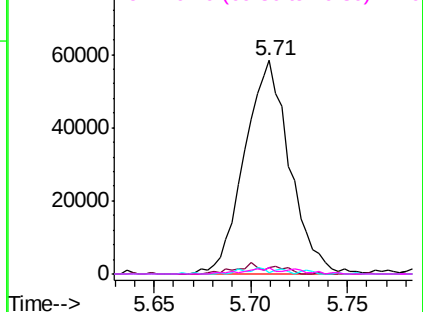
45 4.0 8.4 12.6#

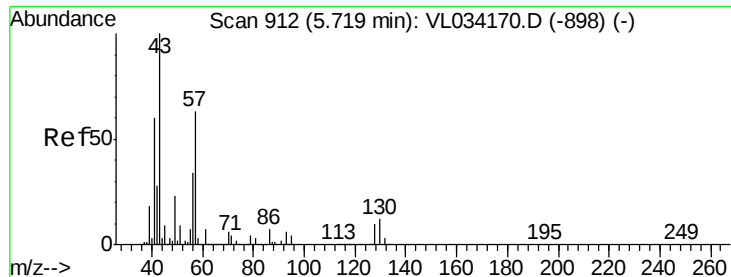
61 2.9 7.2 10.8#

70 3.0 5.3 7.9#



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: 0.937 ppbv

RT: 5.71 min Scan# 909

Delta R.T. -0.01 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

V-1DL

Tgt Ion: 57 Resp: 104087

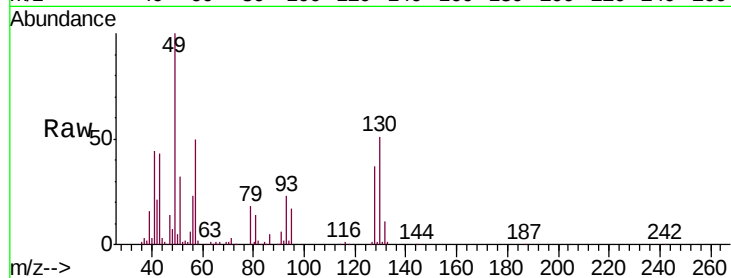
Ion Ratio Lower Upper

57 100

41 102.8 78.5 117.7

43 93.0 189.5 284.3#

56 55.6 43.2 64.8

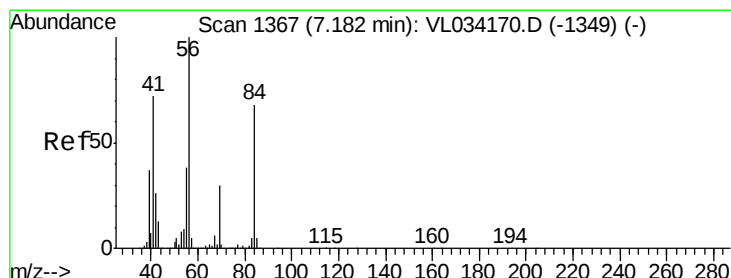
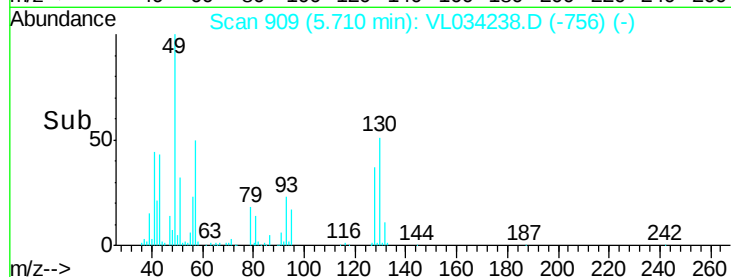
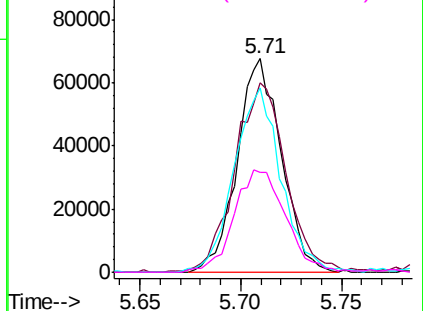


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.171 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.02 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

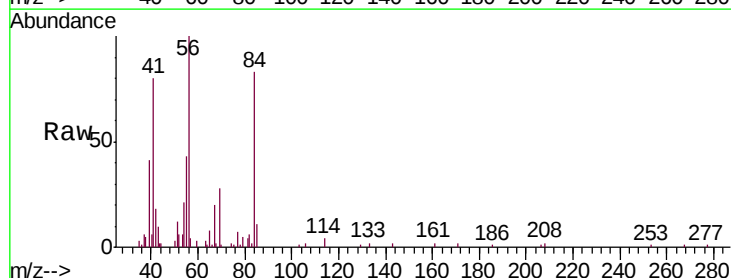
Tgt Ion: 84 Resp: 13693

Ion Ratio Lower Upper

84 100

56 0.0 126.2 189.2#

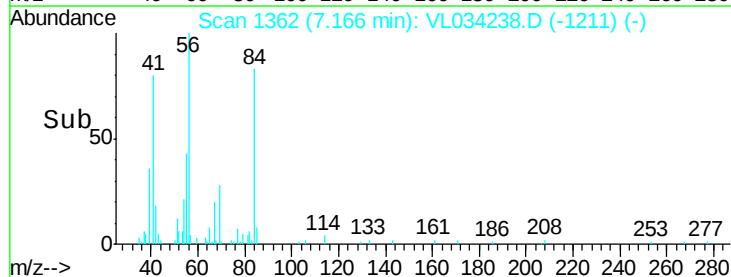
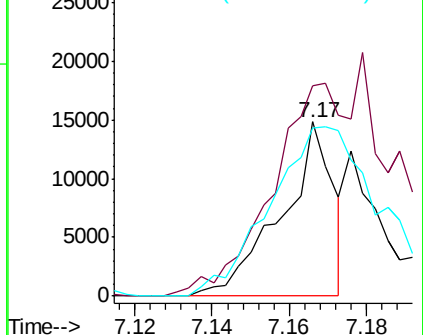
41 207.3 85.8 128.8#

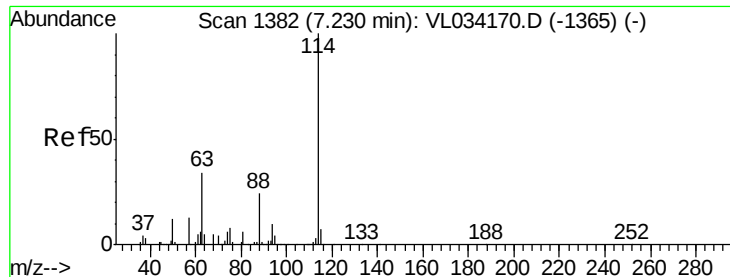


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

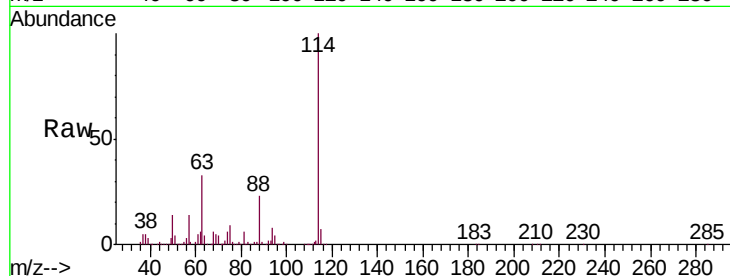




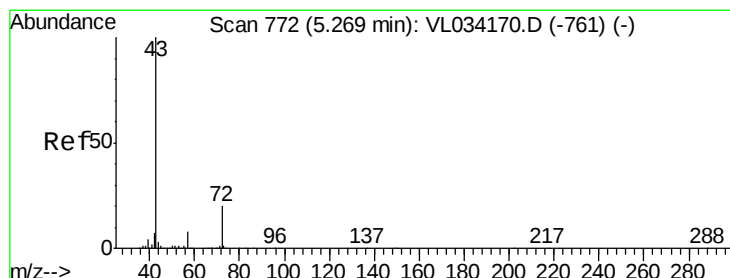
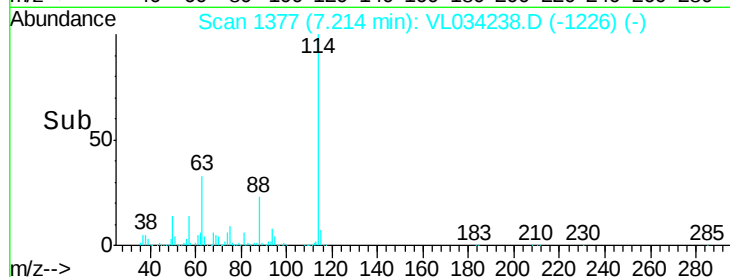
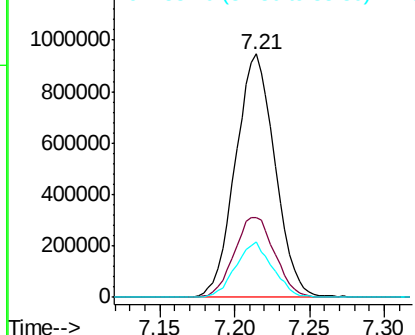
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.02 min
 Lab File: VL034238.D
 Acq: 8 Oct 2019 1:37

Instrument :
 MSVOA_L
 ClientSampleId :
 V-1DL

Tgt Ion:114 Resp: 1734817
 Ion Ratio Lower Upper
 114 100
 63 34.1 27.8 41.6
 88 21.3 17.1 25.7

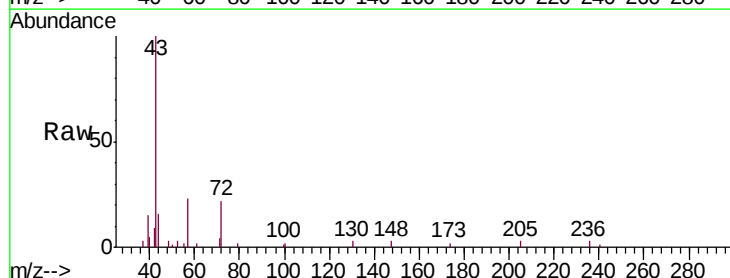


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

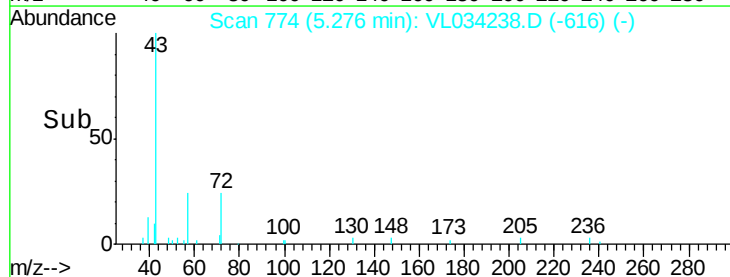
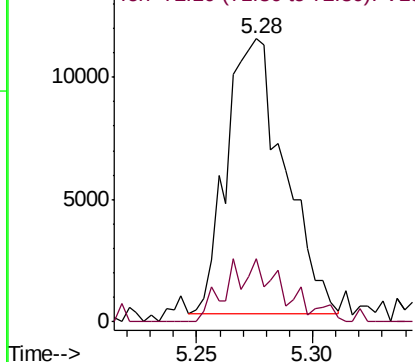


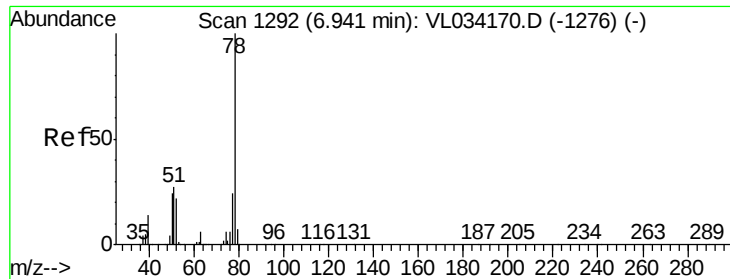
#34
 2-Butanone
 Concen: 0.109 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.01 min
 Lab File: VL034238.D
 Acq: 8 Oct 2019 1:37

Tgt Ion: 43 Resp: 19392
 Ion Ratio Lower Upper
 43 100
 72 22.9 15.0 22.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.529 ppbv

RT: 6.92 min Scan# 1287

Delta R.T. -0.02 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

Instrument :

MSVOA_L

ClientSampleId :

V-1DL

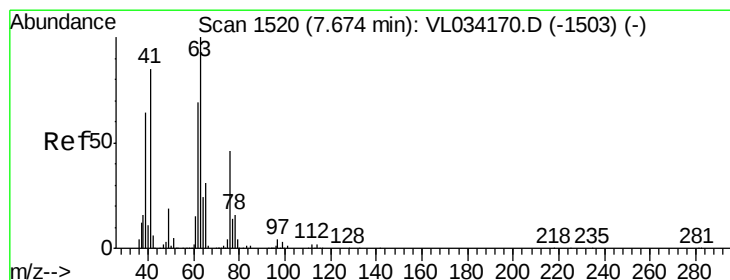
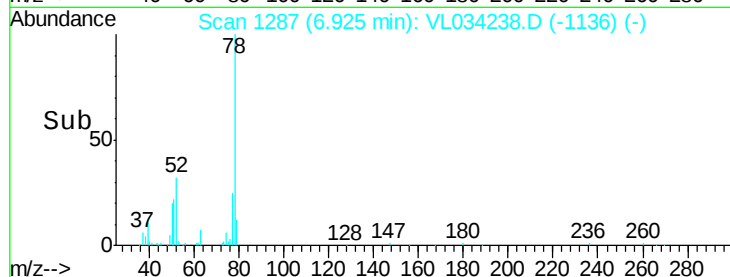
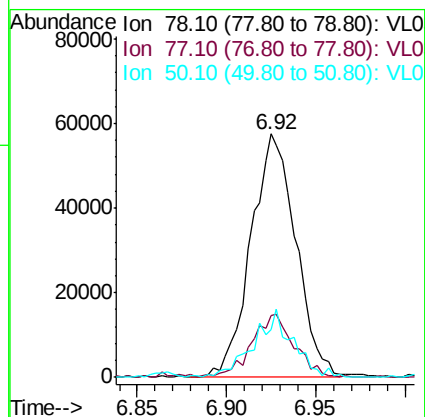
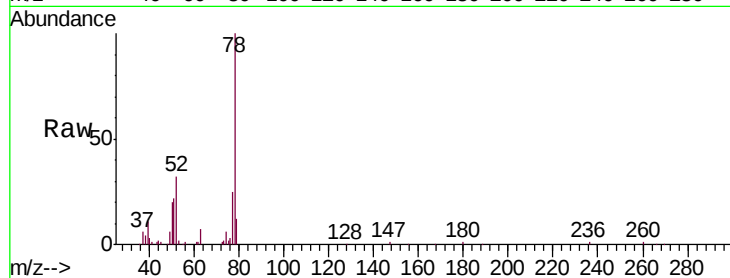
Tgt Ion: 78 Resp: 101400

Ion Ratio Lower Upper

78 100

77 25.2 19.0 28.4

50 19.2 18.9 28.3



#39

1,2-Dichloropropane

Concen: 6.797 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.46 min

Lab File: VL034238.D

Acq: 8 Oct 2019 1:37

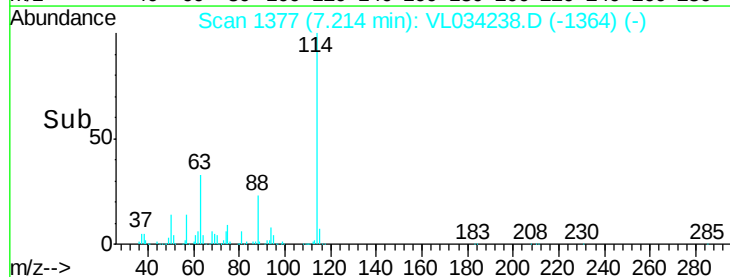
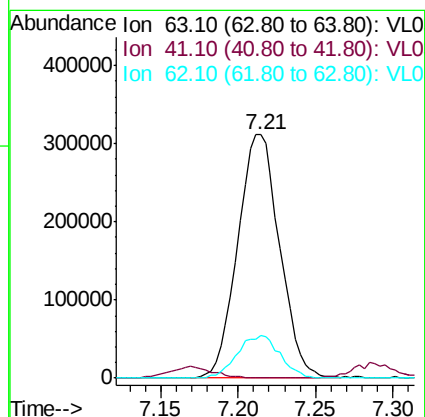
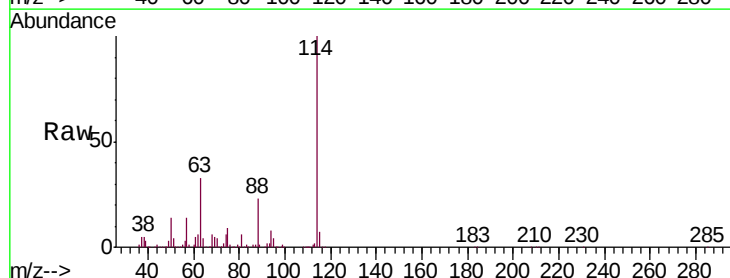
Tgt Ion: 63 Resp: 585179

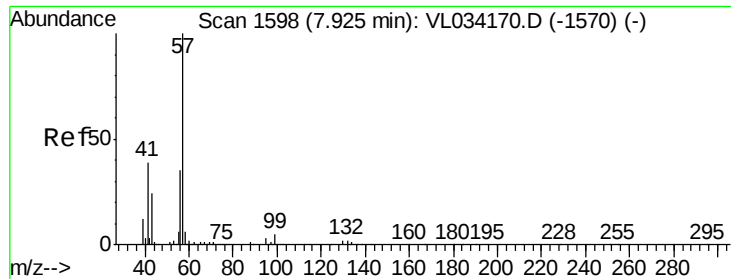
Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

62 17.6 55.4 83.2#

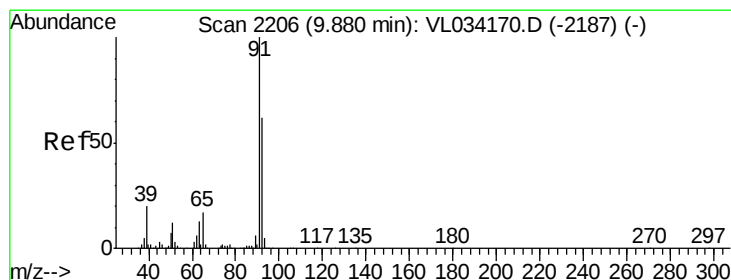
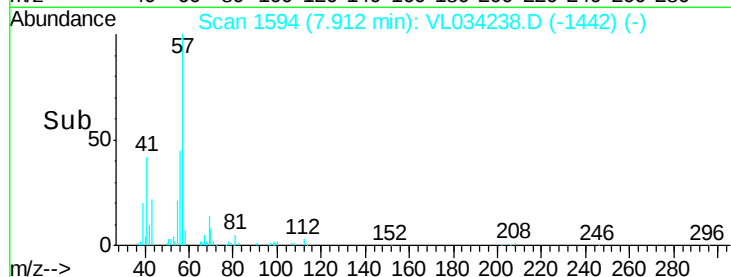
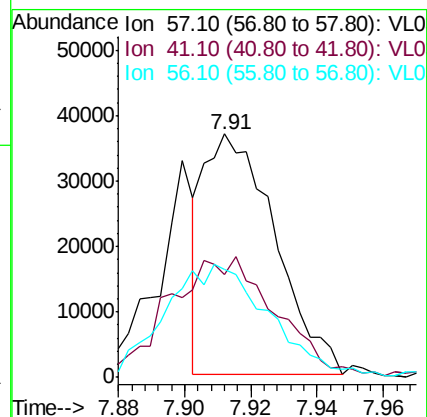
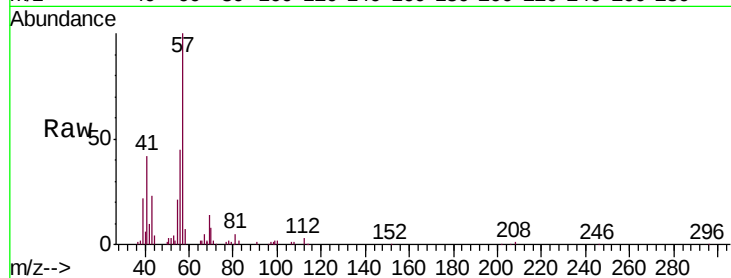




#44
 2,2,4-Trimethylpentane
 Concen: 0.149 ppbv
 RT: 7.91 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: VL034238.D
 Acq: 8 Oct 2019 1:37

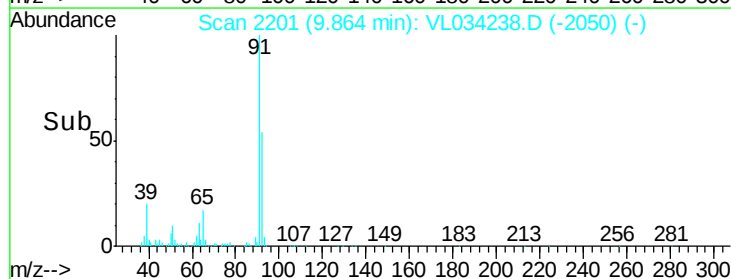
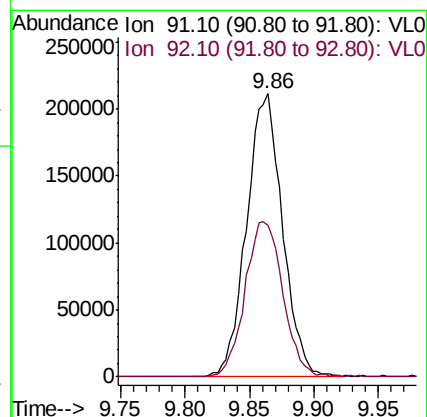
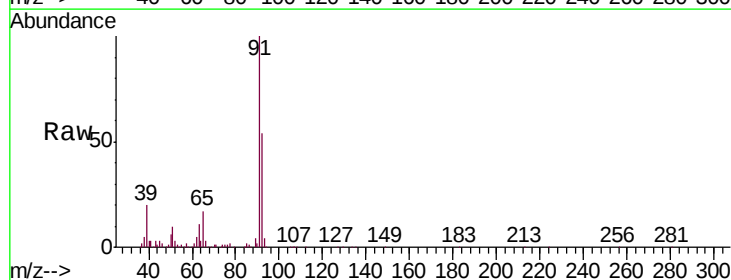
Instrument :
 MSVOA_L
 ClientSampleID :
 V-1DL

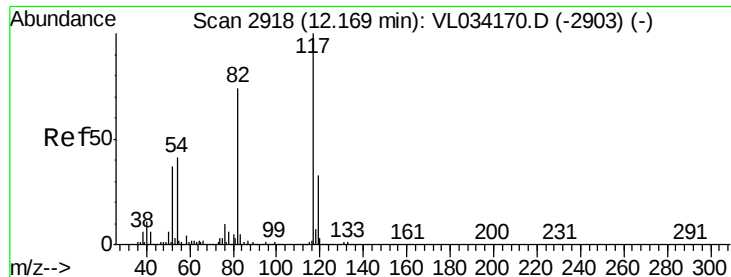
Tgt Ion: 57 Resp: 55013
 Ion Ratio Lower Upper
 57 100
 41 76.7 29.8 44.6#
 56 70.8 25.9 38.9#



#53
 Toluene
 Concen: 1.961 ppbv
 RT: 9.86 min Scan# 2201
 Delta R.T. -0.02 min
 Lab File: VL034238.D
 Acq: 8 Oct 2019 1:37

Tgt Ion: 91 Resp: 410551
 Ion Ratio Lower Upper
 91 100
 92 58.0 49.0 73.6

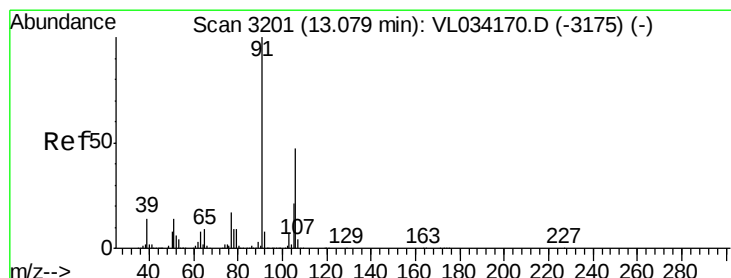
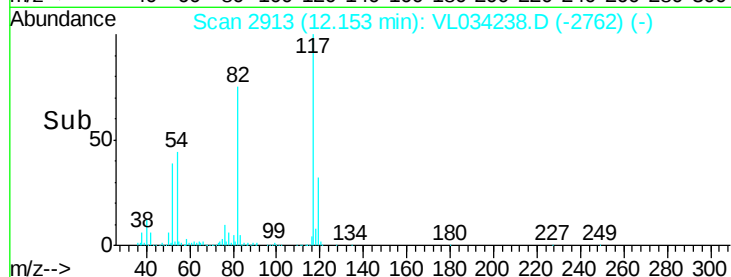
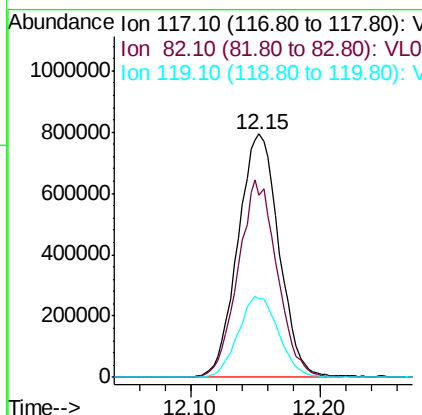
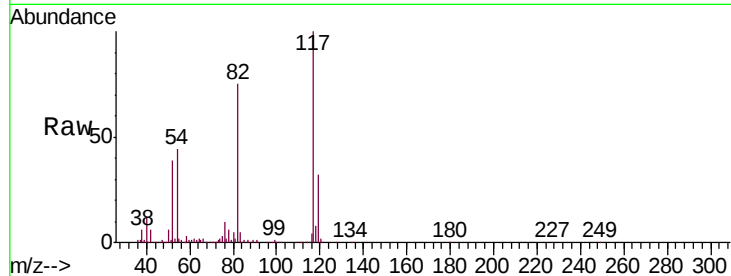




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.02 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

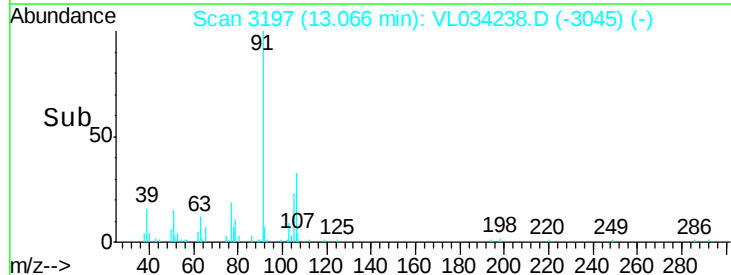
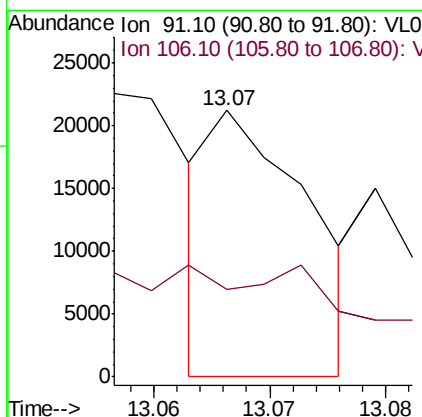
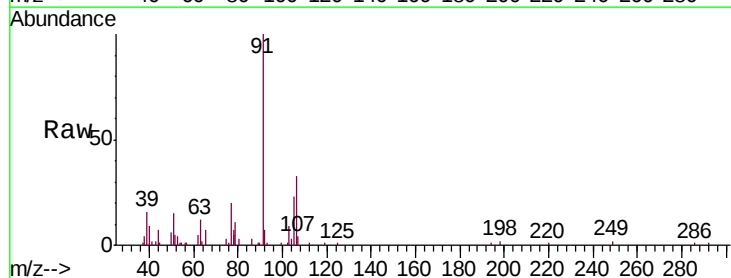
Instrument :
MSVOA_L
ClientSampleId :
V-1DL

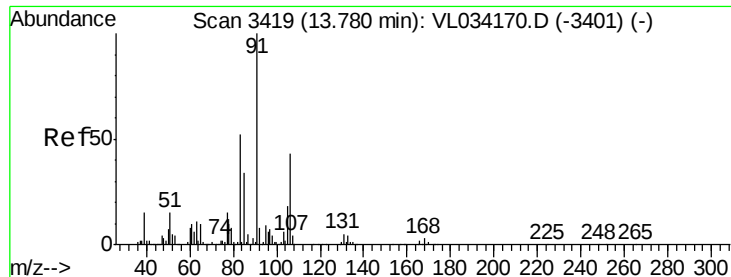
Tgt Ion: 117 Resp: 1753988
Ion Ratio Lower Upper
117 100
82 77.4 58.2 87.4
119 33.0 23.7 35.5



#59
m/p-Xylene
Concen: 0.053 ppbv
RT: 13.07 min Scan# 3197
Delta R.T. -0.01 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

Tgt Ion: 91 Resp: 12440
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

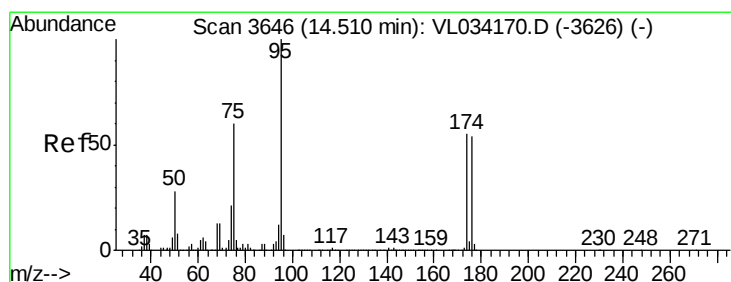
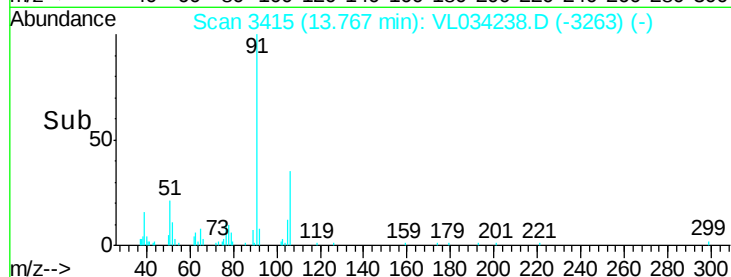
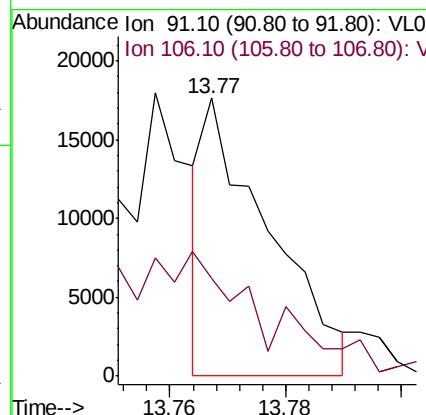
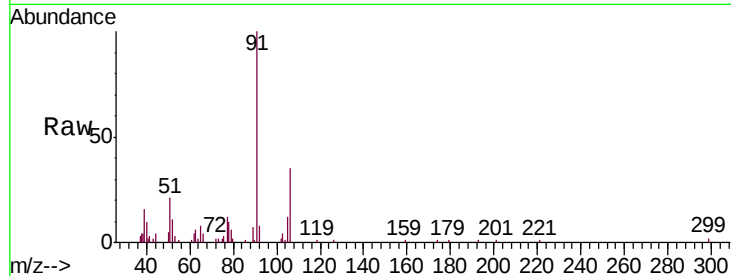




#60
o-Xylene
Concen: 0.059 ppbv
RT: 13.77 min Scan# 3415
Delta R.T. -0.01 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

Instrument :
MSVOA_L
ClientSampleId :
V-1DL

Tgt Ion: 91 Resp: 13808
Ion Ratio Lower Upper
91 100
106 112.3 21.2 63.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.392 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. -0.02 min
Lab File: VL034238.D
Acq: 8 Oct 2019 1:37

Tgt Ion: 95 Resp: 1583779
Ion Ratio Lower Upper
95 100
174 54.7 45.1 67.7
175 4.0 3.3 4.9

