

Data File : VL034152.D
Acq On : 10 Sep 2019 21:07
Operator : SY/AP
Sample : K4775-04DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

Quant Time: Sep 11 01:53:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	658467	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1298632	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1277957	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1070498 10.25 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.50%

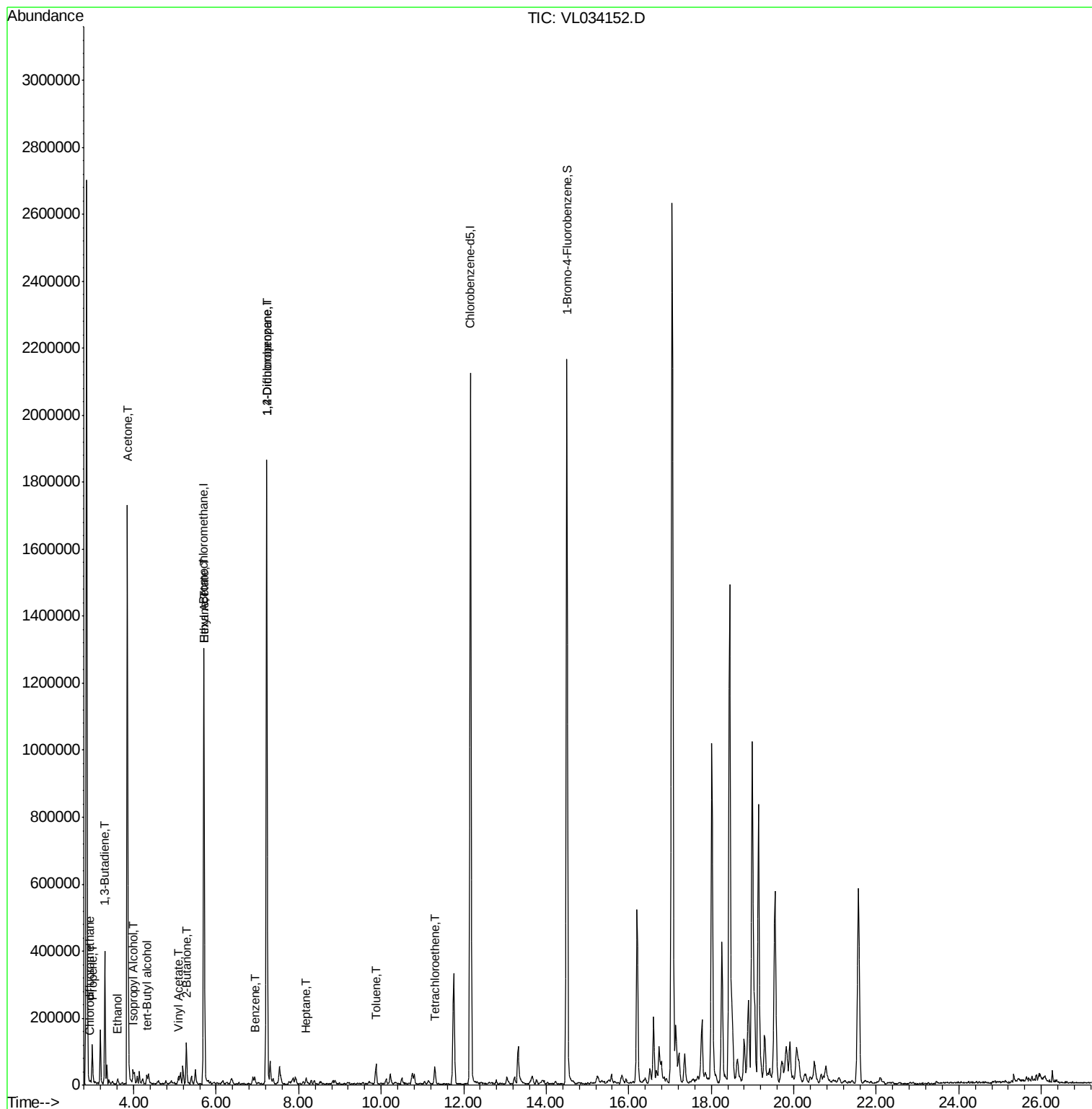
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.95	51	3202	0.044	ppbv #	60
9) Propene	3.00	41	46791	1.139	ppbv	98
10) Heptane	8.18	43	8164	0.077	ppbv	86
13) Ethanol	3.60	45	5683	0.706	ppbv #	37
15) Acetone	3.85	43	1774535	22.361	ppbv	98
16) 1,3-Butadiene	3.30	39	97934	2.437	ppbv #	20
17) tert-Butyl alcohol	4.32	59	9735	0.169	ppbv #	84
19) Isopropyl Alcohol	3.99	45	35692	0.666	ppbv #	97
23) Vinyl Acetate	5.09	43	4548	0.034	ppbv #	21
25) Ethyl Acetate	5.72	43	13402	0.077	ppbv #	82
26) Hexane	5.72	57	10140	0.131	ppbv #	30
34) 2-Butanone	5.28	43	137849	1.104	ppbv	100
36) Benzene	6.94	78	6773	0.046	ppbv #	86
39) 1,2-Dichloropropane	7.22	63	369406	5.815	ppbv #	24
52) Tetrachloroethene	11.30	164	8765	0.167	ppbv	83
53) Toluene	9.88	91	41126	0.251	ppbv	96

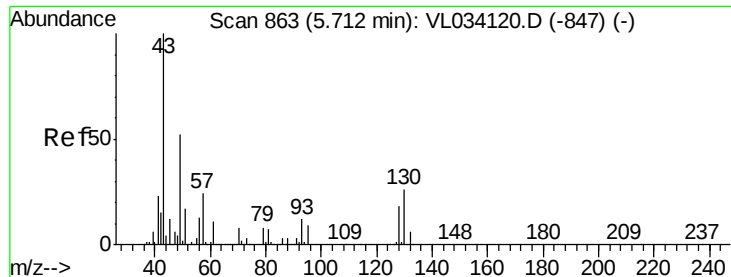
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.01 min

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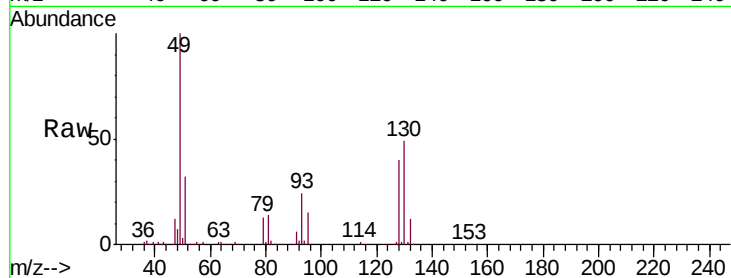
Tgt Ion: 49 Resp: 658467

Ion Ratio Lower Upper

49 100

128 39.0 18.4 55.0

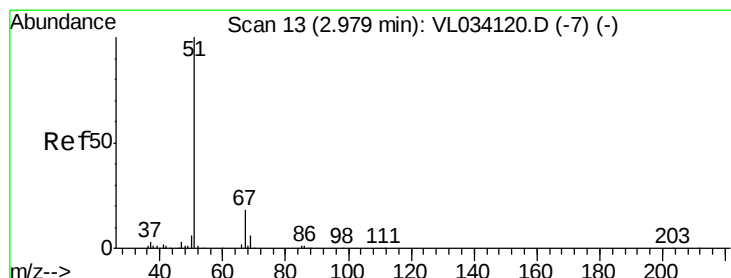
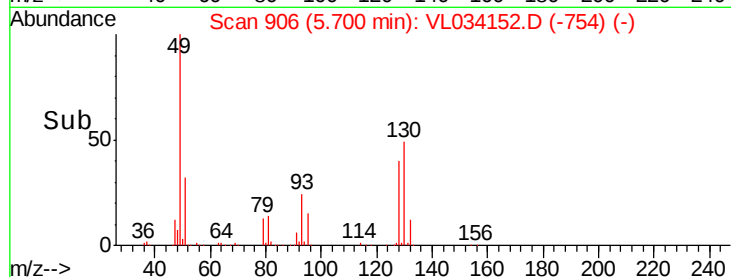
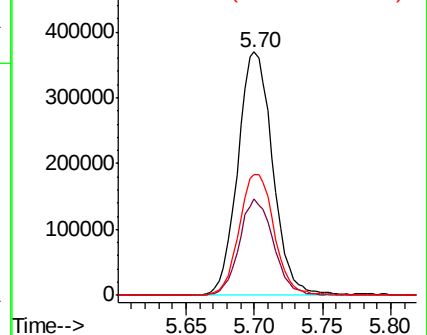
130 50.3 23.5 70.6



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



#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.03 min

Lab File: VL034152.D

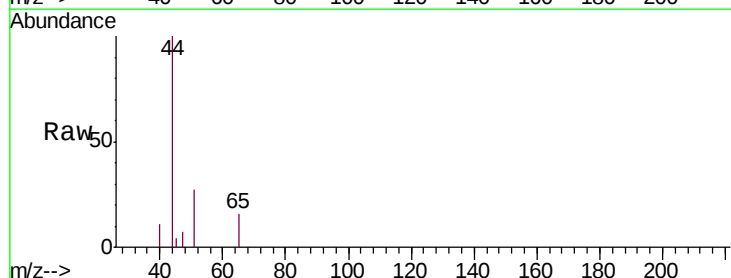
Acq: 10 Sep 2019 21:07

Tgt Ion: 51 Resp: 3202

Ion Ratio Lower Upper

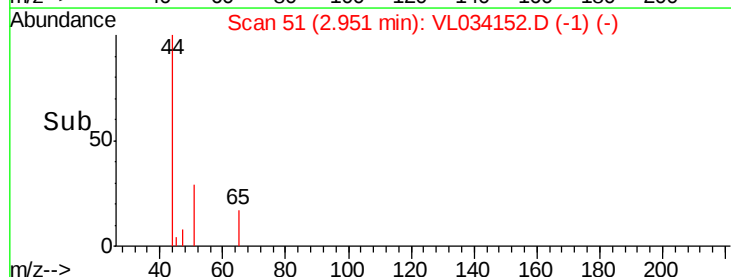
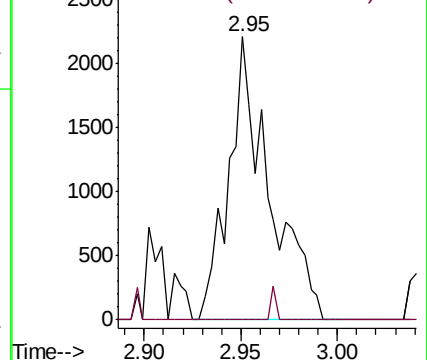
51 100

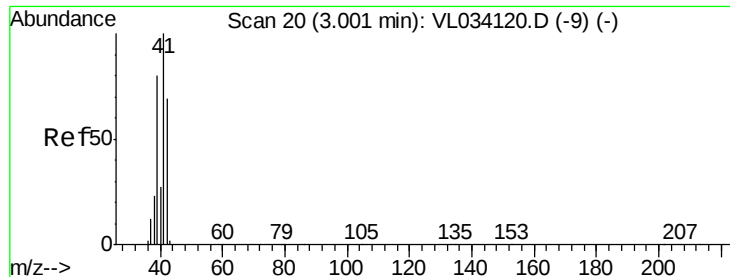
67 0.0 14.2 21.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.139 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034152.D

Acq: 10 Sep 2019 21:07

Instrument :

MSVOA_L

ClientSampleId :

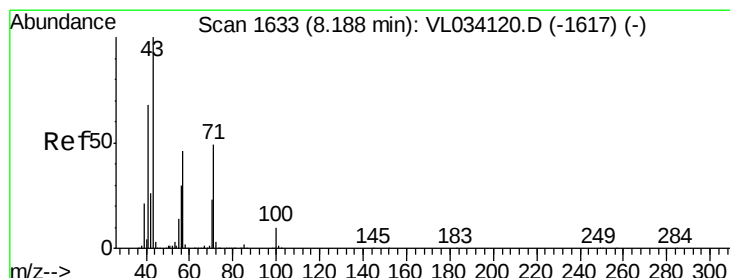
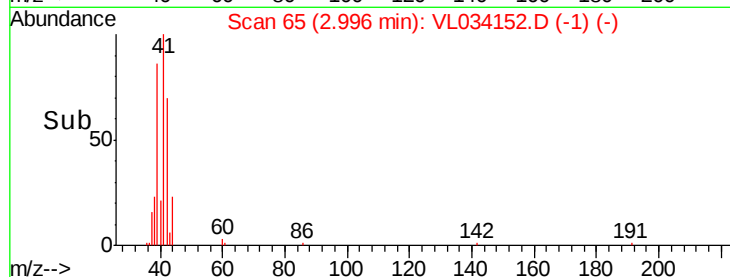
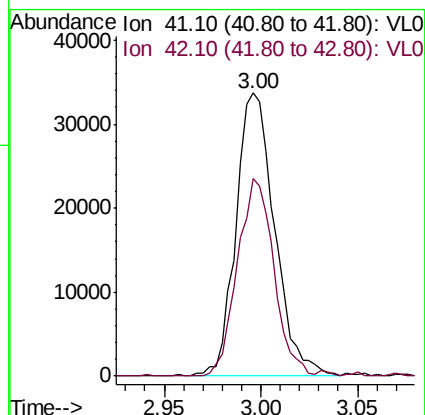
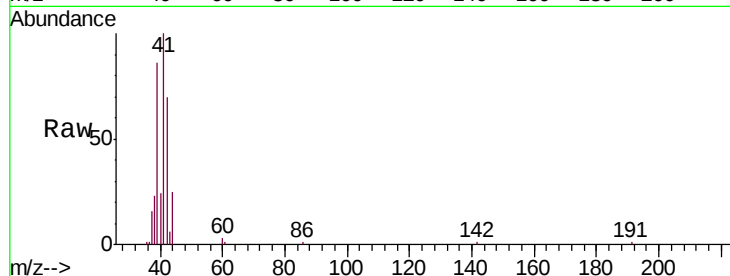
SV4DL2

Tgt Ion: 41 Resp: 46791

Ion Ratio Lower Upper

41 100

42 66.2 54.6 81.8



#10

Heptane

Concen: 0.077 ppbv

RT: 8.18 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VL034152.D

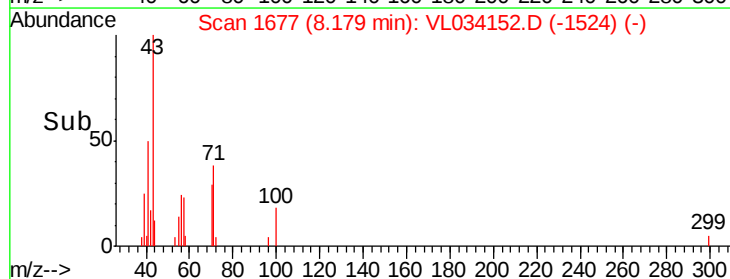
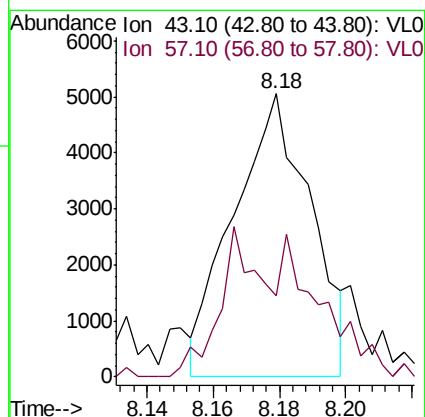
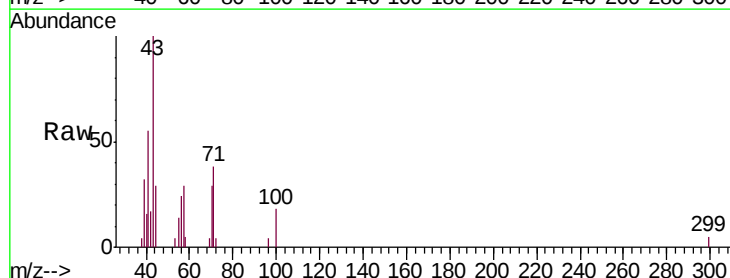
Acq: 10 Sep 2019 21:07

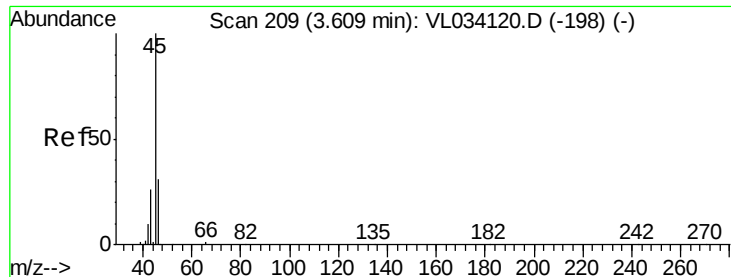
Tgt Ion: 43 Resp: 8164

Ion Ratio Lower Upper

43 100

57 56.7 38.1 57.1

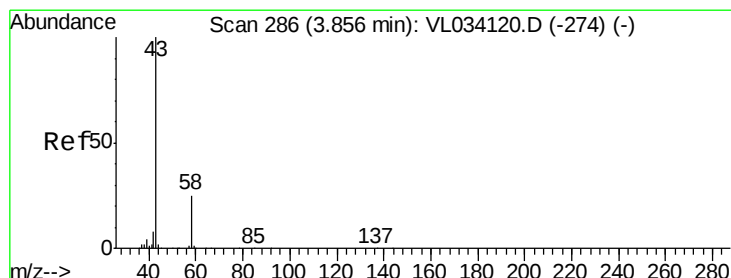
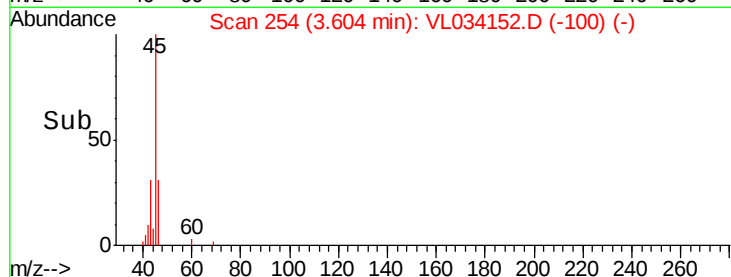
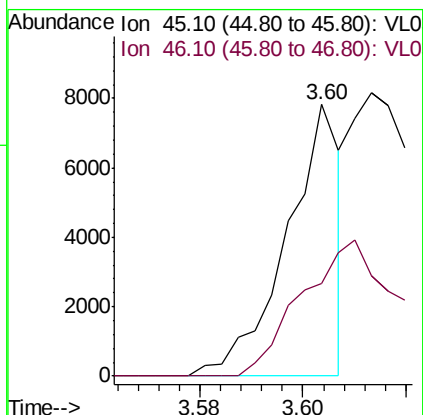
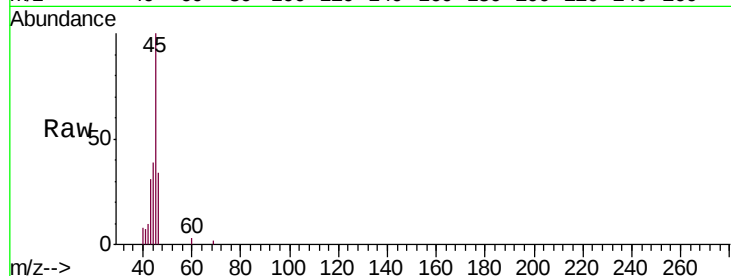




#13
Ethanol
Concen: 0.706 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034152.D
Acq: 10 Sep 2019 21:07

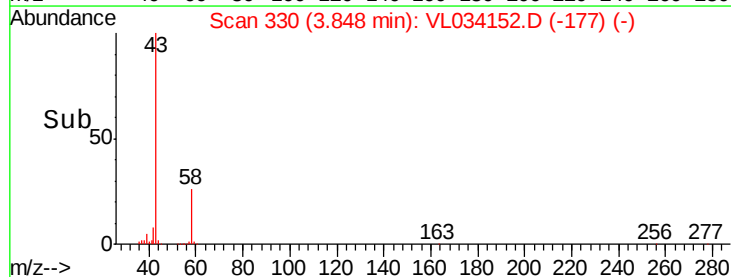
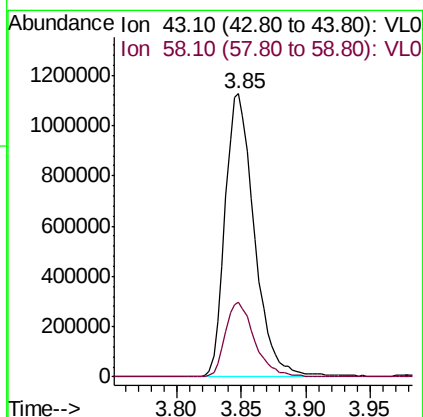
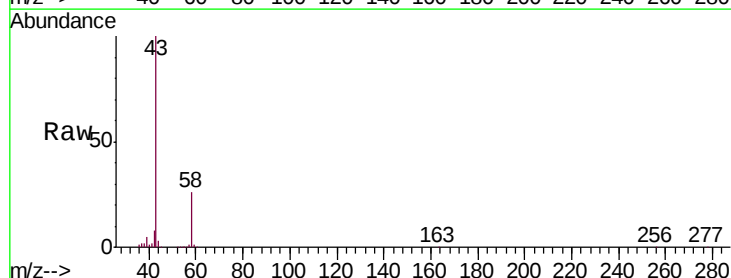
Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

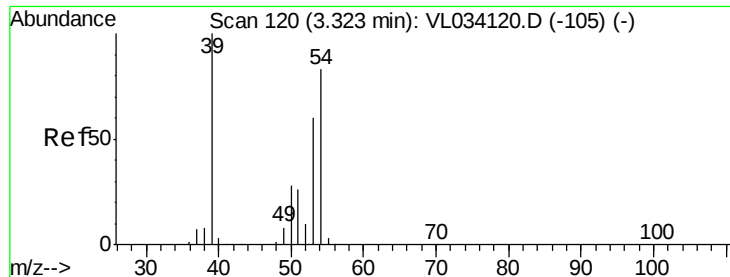
Tgt Ion: 45 Resp: 5683
Ion Ratio Lower Upper
45 100
46 0.0 15.0 60.0#



#15
Acetone
Concen: 22.361 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL034152.D
Acq: 10 Sep 2019 21:07

Tgt Ion: 43 Resp: 1774535
Ion Ratio Lower Upper
43 100
58 26.7 20.6 30.8

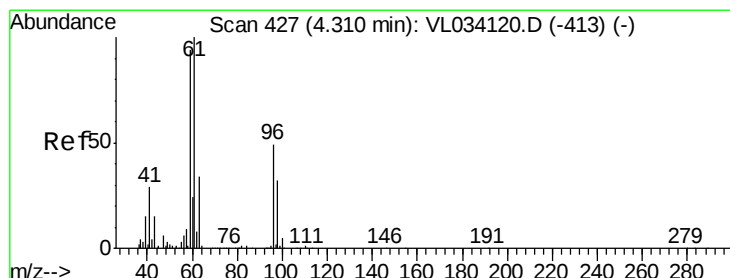
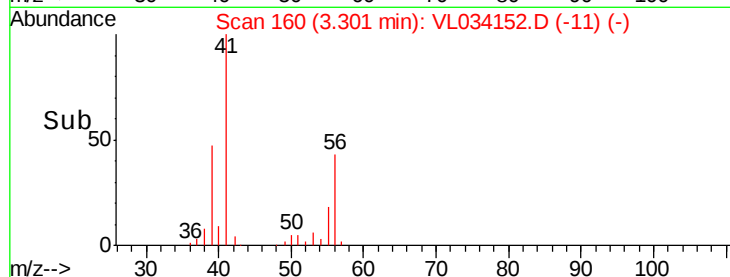
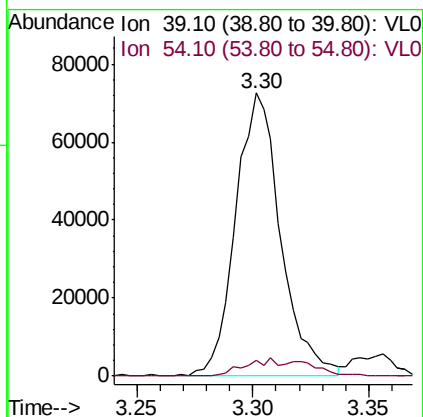
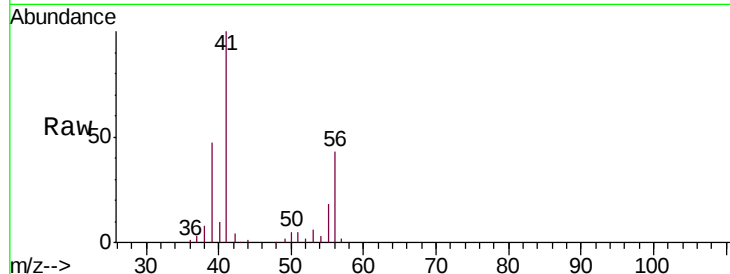




#16
 1,3-Butadiene
 Concen: 2.437 ppbv
 RT: 3.30 min Scan# 160
 Delta R.T. -0.02 min
 Lab File: VL034152.D
 Acq: 10 Sep 2019 21:07

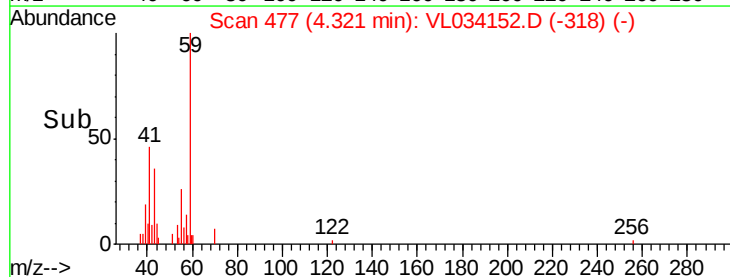
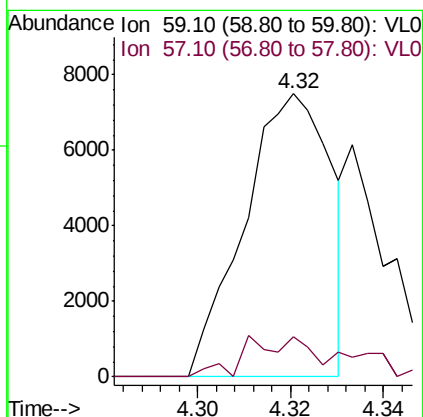
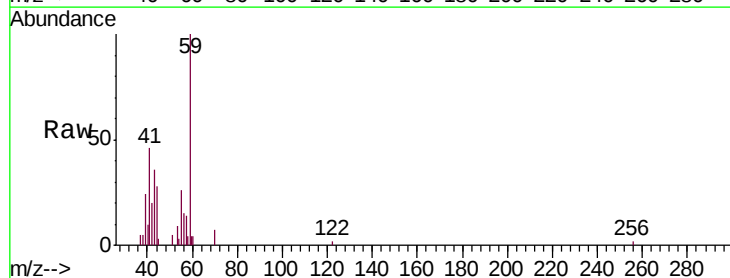
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL2

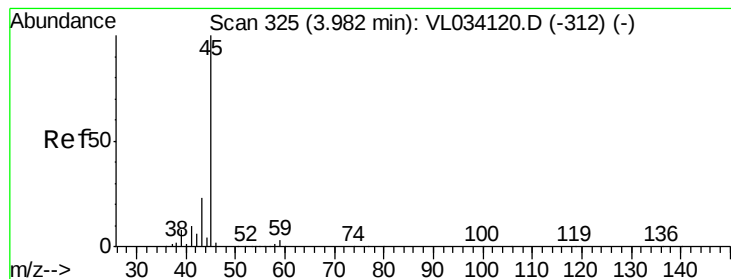
Tgt Ion: 39 Resp: 97934
 Ion Ratio Lower Upper
 39 100
 54 8.7 63.5 95.3#



#17
 tert-Butyl alcohol
 Concen: 0.169 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.01 min
 Lab File: VL034152.D
 Acq: 10 Sep 2019 21:07

Tgt Ion: 59 Resp: 9735
 Ion Ratio Lower Upper
 59 100
 57 16.9 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.666 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.00 min

Lab File: VL034152.D

Acq: 10 Sep 2019 21:07

Instrument :

MSVOA_L

ClientSampleId :

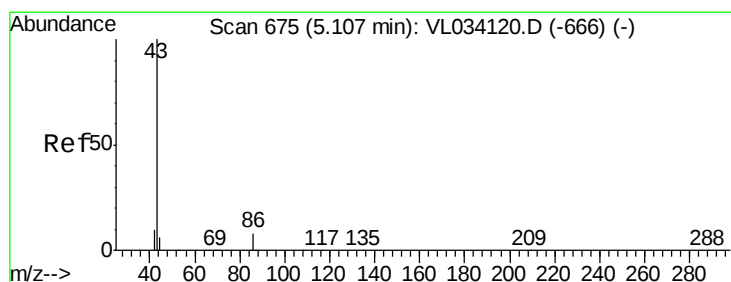
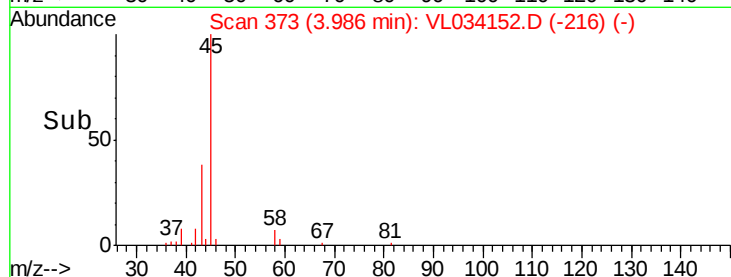
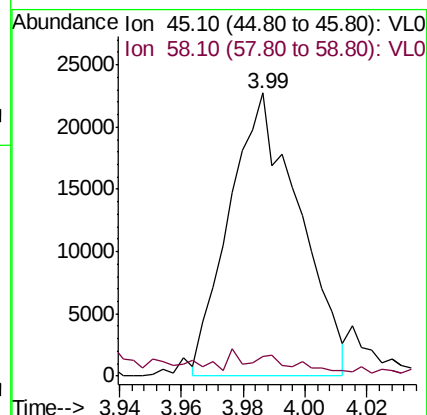
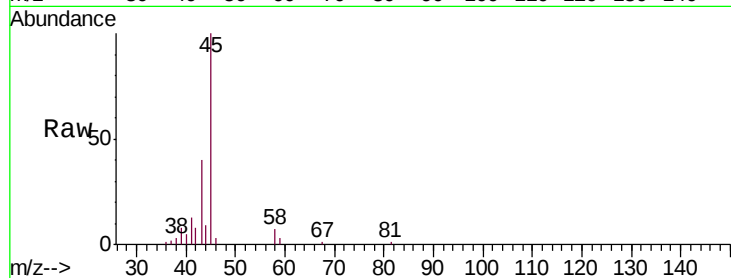
SV4DL2

Tgt Ion: 45 Resp: 35692

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#



#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.09 min Scan# 715

Delta R.T. -0.02 min

Lab File: VL034152.D

Acq: 10 Sep 2019 21:07

Tgt Ion: 43 Resp: 4548

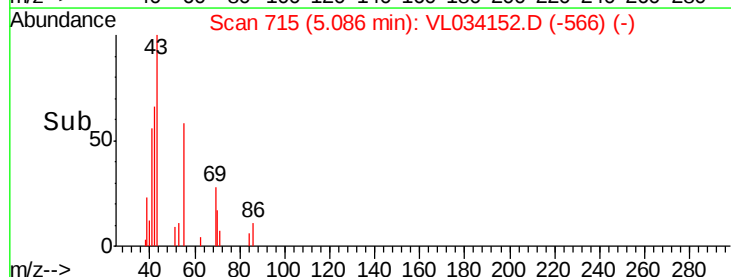
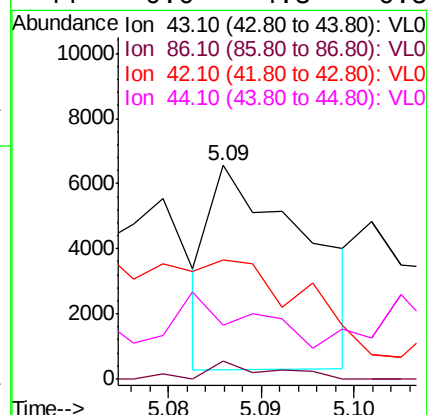
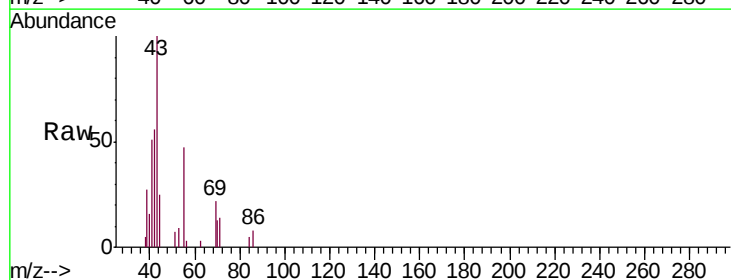
Ion Ratio Lower Upper

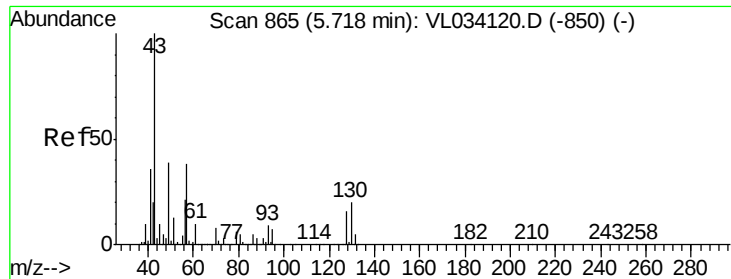
43 100

86 17.4 5.5 8.3#

42 64.0 8.2 12.4#

44 0.0 4.3 6.5#

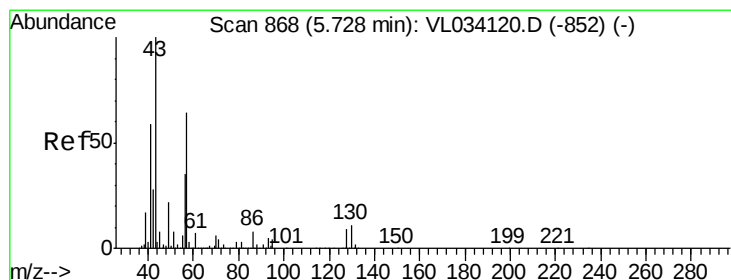
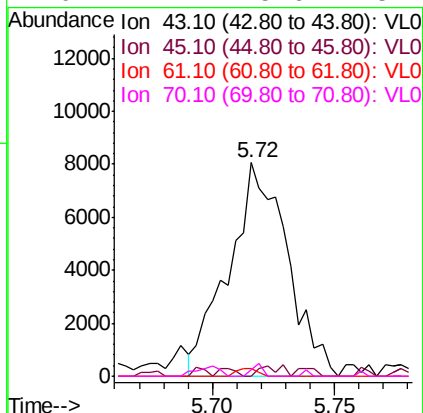
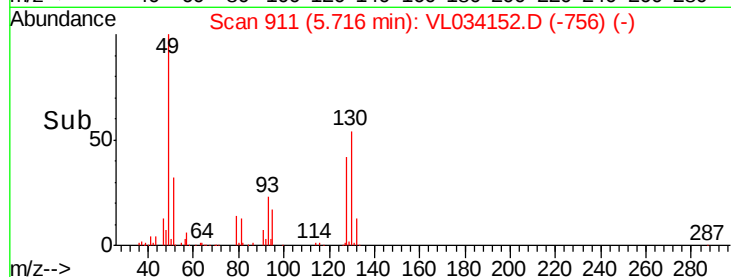
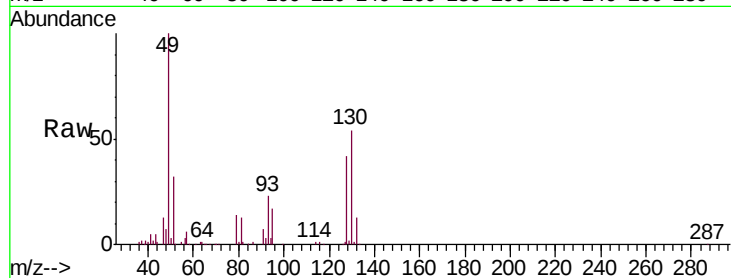




#25
Ethyl Acetate
Concen: 0.077 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.00 min
Lab File: VL034152.D
Acq: 10 Sep 2019 21:07

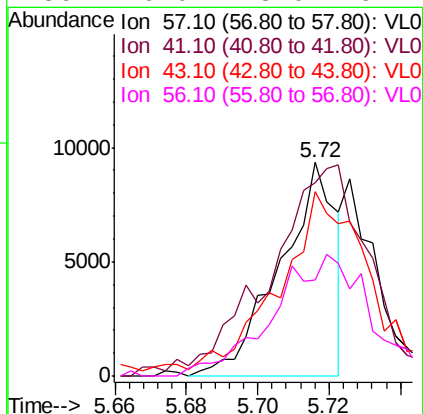
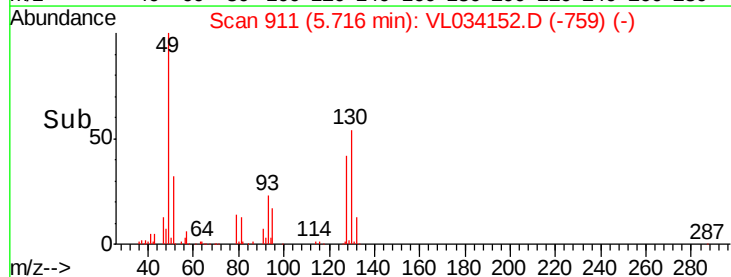
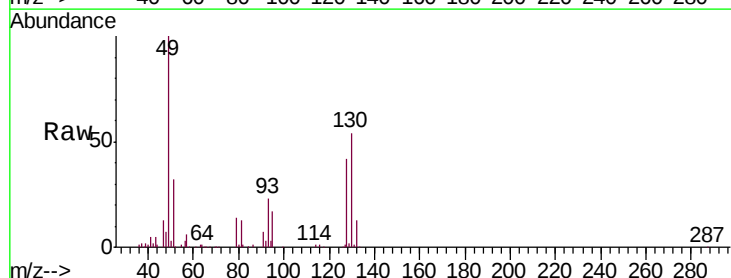
Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

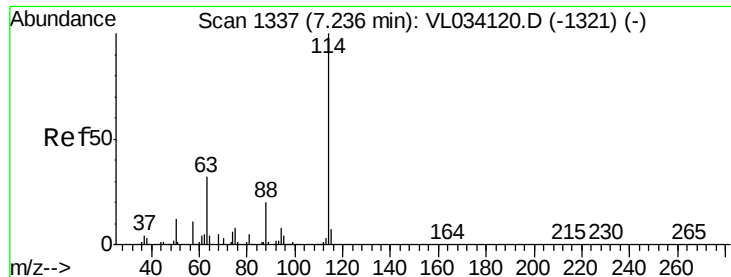
Tgt Ion:	43	Resp:	13402
Ion	Ratio	Lower	Upper
43	100		
45	4.2	8.2	12.4#
61	1.3	7.4	11.2#
70	1.4	5.6	8.4#



#26
Hexane
Concen: 0.131 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.01 min
Lab File: VL034152.D
Acq: 10 Sep 2019 21:07

Tgt Ion:	57	Resp:	10140
Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.6	115.0#
43	140.0	189.2	283.8#
56	0.0	43.0	64.4#

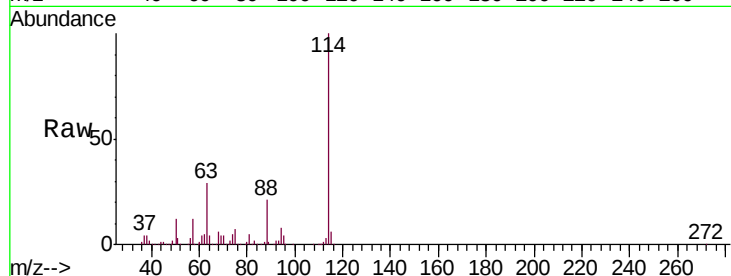




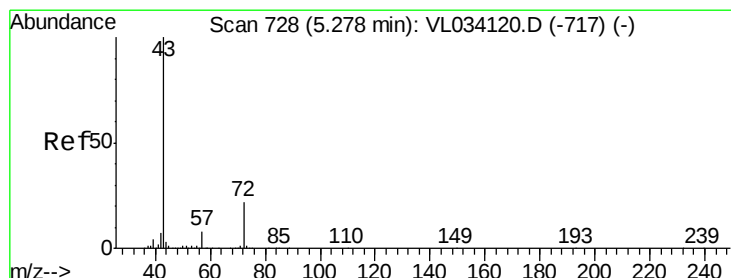
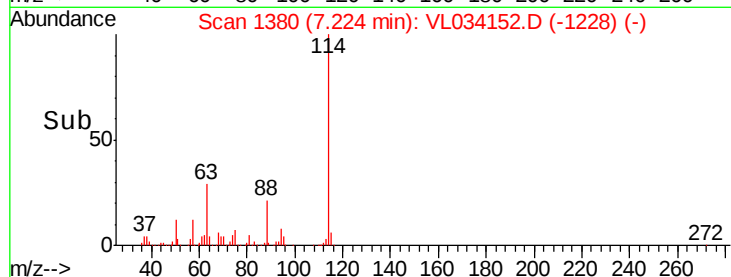
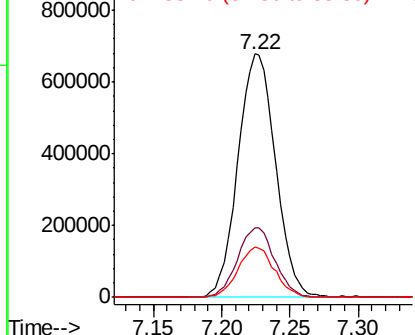
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034152.D
 Acq: 10 Sep 2019 21:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL2

Tgt Ion: 114 Resp: 1298632
 Ion Ratio Lower Upper
 114 100
 63 28.6 25.5 38.3
 88 20.1 16.8 25.2

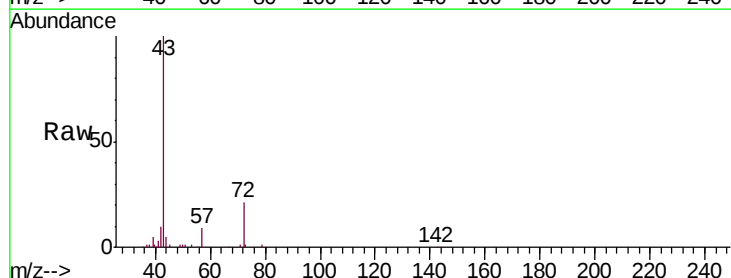


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

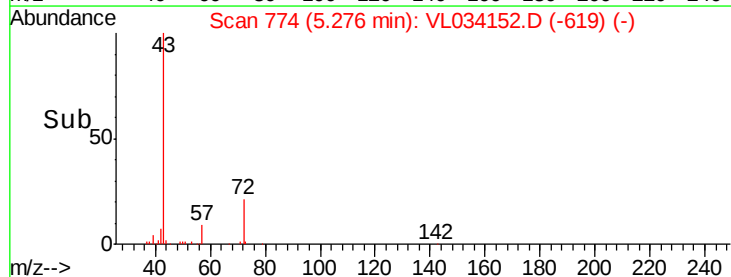
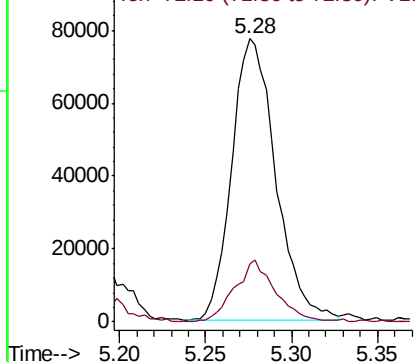


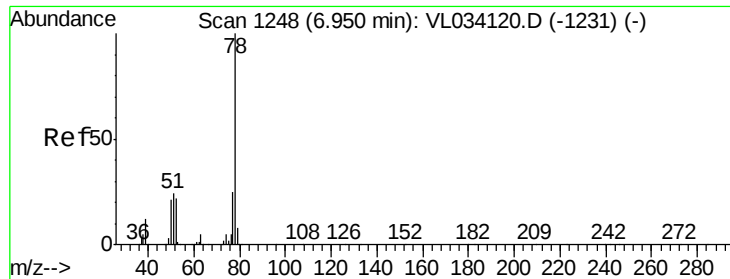
#34
 2-Butanone
 Concen: 1.104 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. -0.00 min
 Lab File: VL034152.D
 Acq: 10 Sep 2019 21:07

Tgt Ion: 43 Resp: 137849
 Ion Ratio Lower Upper
 43 100
 72 20.7 16.5 24.7



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





#36

Benzene

Concen: 0.046 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VL034152.D

Acq: 10 Sep 2019 21:07

Instrument :

MSVOA_L

ClientSampleId :

SV4DL2

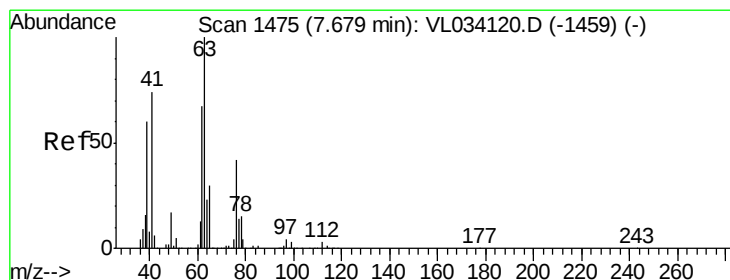
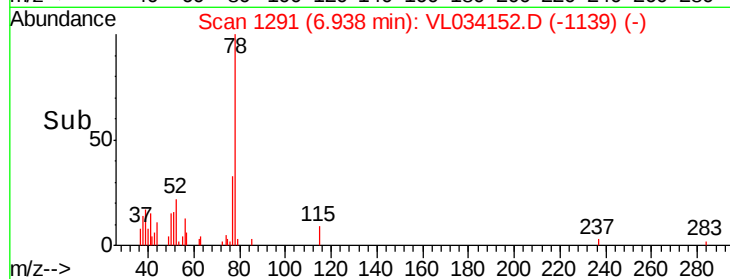
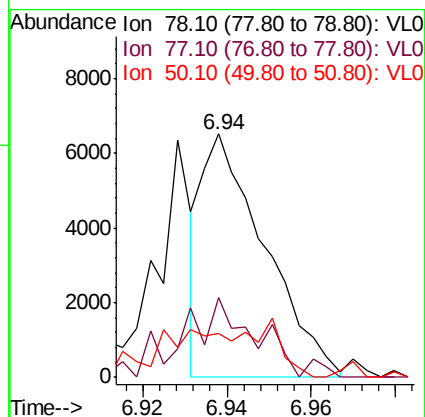
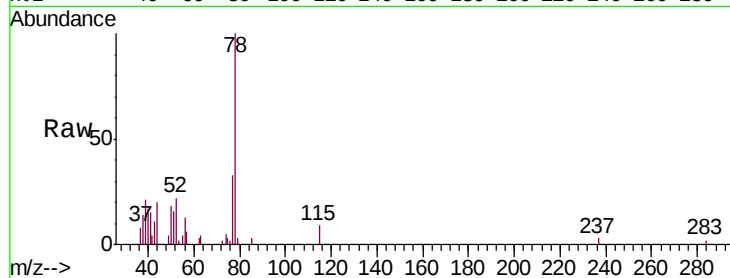
Tgt Ion: 78 Resp: 6773

Ion Ratio Lower Upper

78 100

77 33.6 20.3 30.5#

50 15.9 16.9 25.3#



#39

1,2-Dichloropropane

Concen: 5.815 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.46 min

Lab File: VL034152.D

Acq: 10 Sep 2019 21:07

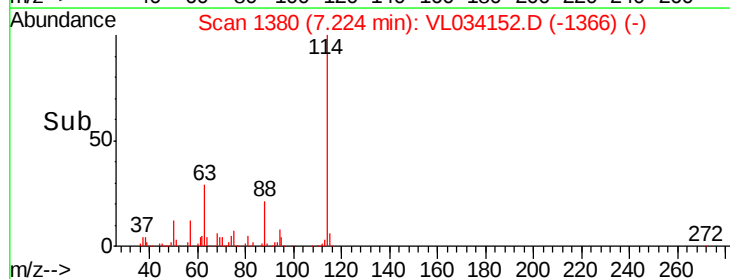
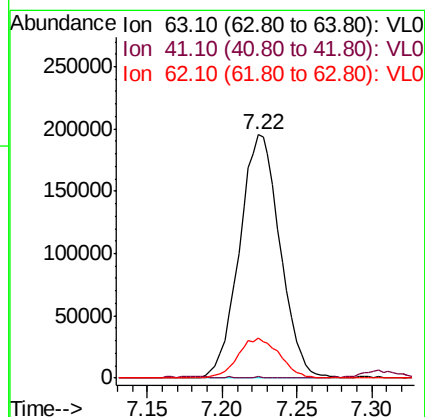
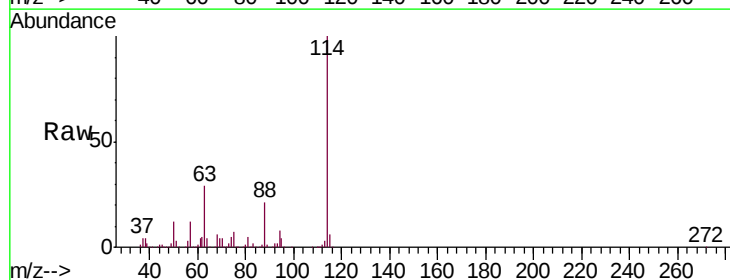
Tgt Ion: 63 Resp: 369406

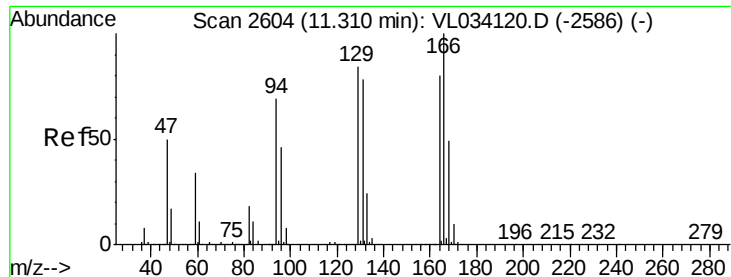
Ion Ratio Lower Upper

63 100

41 0.1 59.3 88.9#

62 16.3 53.8 80.6#





#52

Tetrachloroethene

Concen: 0.167 ppbv

RT: 11.30 min Scan# 2647

Delta R.T. -0.01 min

Lab File: VL034152.D

Acq: 10 Sep 2019 21:07

Instrument :

MSVOA_L

ClientSampleId :

SV4DL2

Tgt Ion:164 Resp: 8765

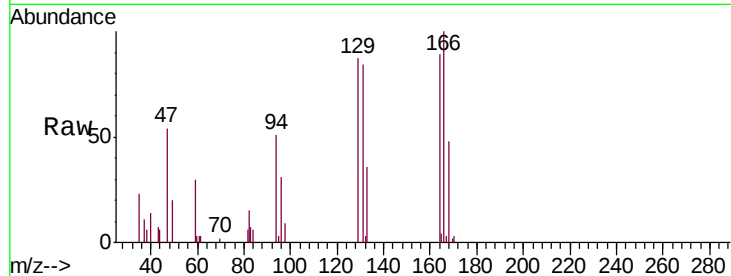
Ion Ratio Lower Upper

164 100

166 103.9 99.5 149.3

129 84.6 83.6 125.4

131 85.1 77.9 116.9

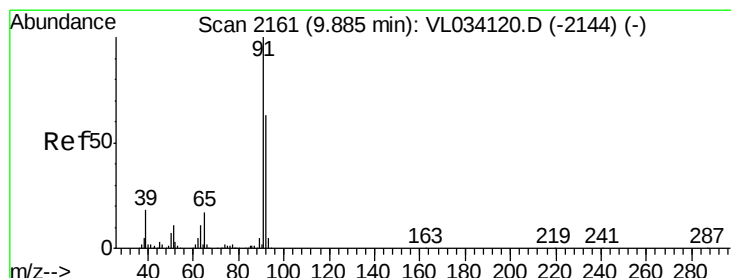
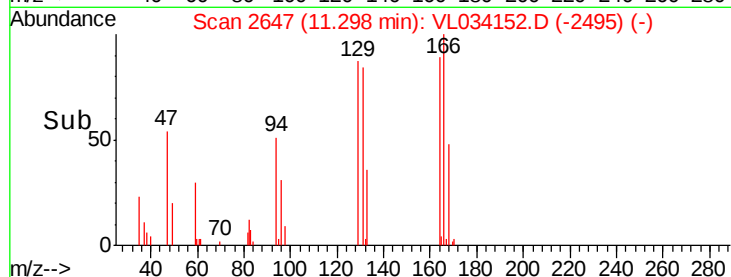
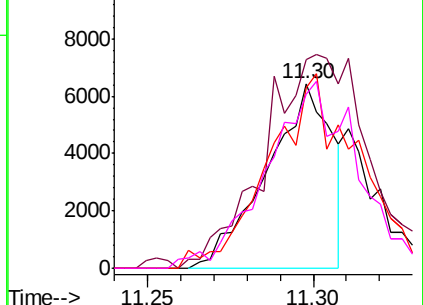


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.251 ppbv

RT: 9.88 min Scan# 2205

Delta R.T. -0.01 min

Lab File: VL034152.D

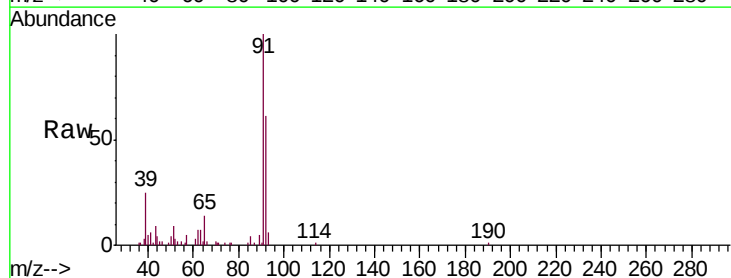
Acq: 10 Sep 2019 21:07

Tgt Ion: 91 Resp: 41126

Ion Ratio Lower Upper

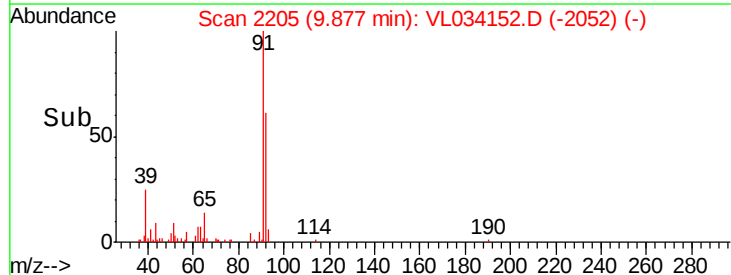
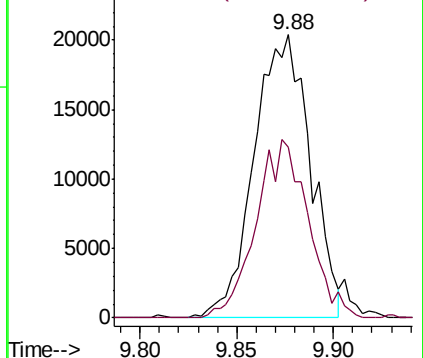
91 100

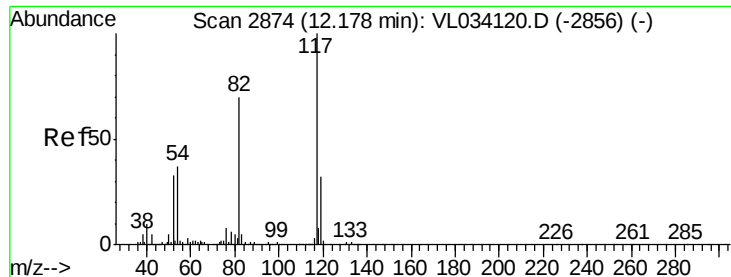
92 58.8 49.3 73.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

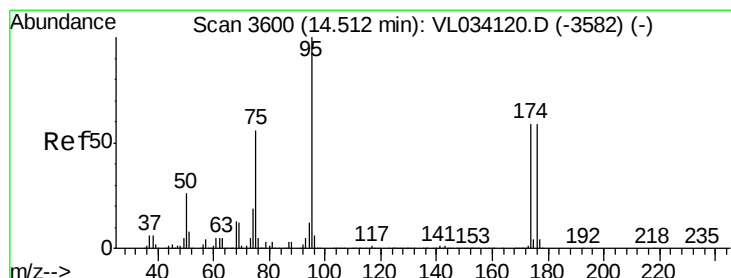
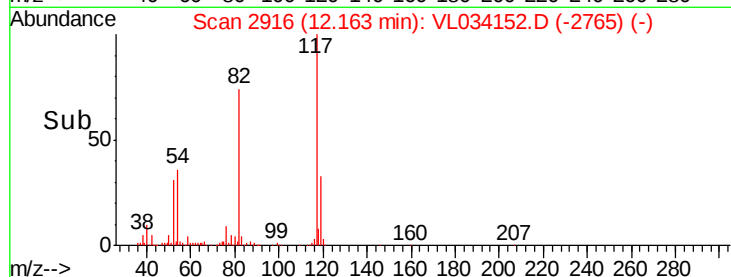
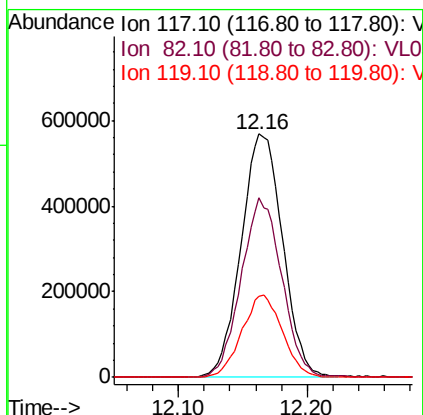
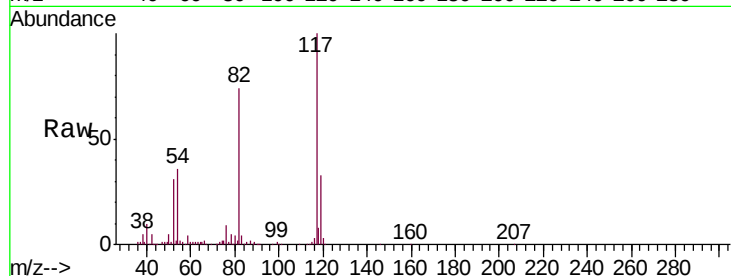




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.01 min
Lab File: VL034152.D
Acq: 10 Sep 2019 21:07

Instrument :
MSVOA_L
ClientSampleId :
SV4DL2

Tgt Ion: 117 Resp: 1277957
Ion Ratio Lower Upper
117 100
82 72.4 55.8 83.6
119 32.9 43.1 64.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.246 ppbv
RT: 14.50 min Scan# 3644
Delta R.T. -0.01 min
Lab File: VL034152.D
Acq: 10 Sep 2019 21:07

Tgt Ion: 95 Resp: 1070498
Ion Ratio Lower Upper
95 100
174 62.5 48.1 72.1
175 4.5 3.5 5.3

