

Data File : VL034154.D
Acq On : 10 Sep 2019 22:24
Operator : SY/AP
Sample : K4775-01DL2 200X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Quant Time: Sep 11 01:54:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	653727	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1256624	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.17	117	1231073	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1042197 10.36 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.60%

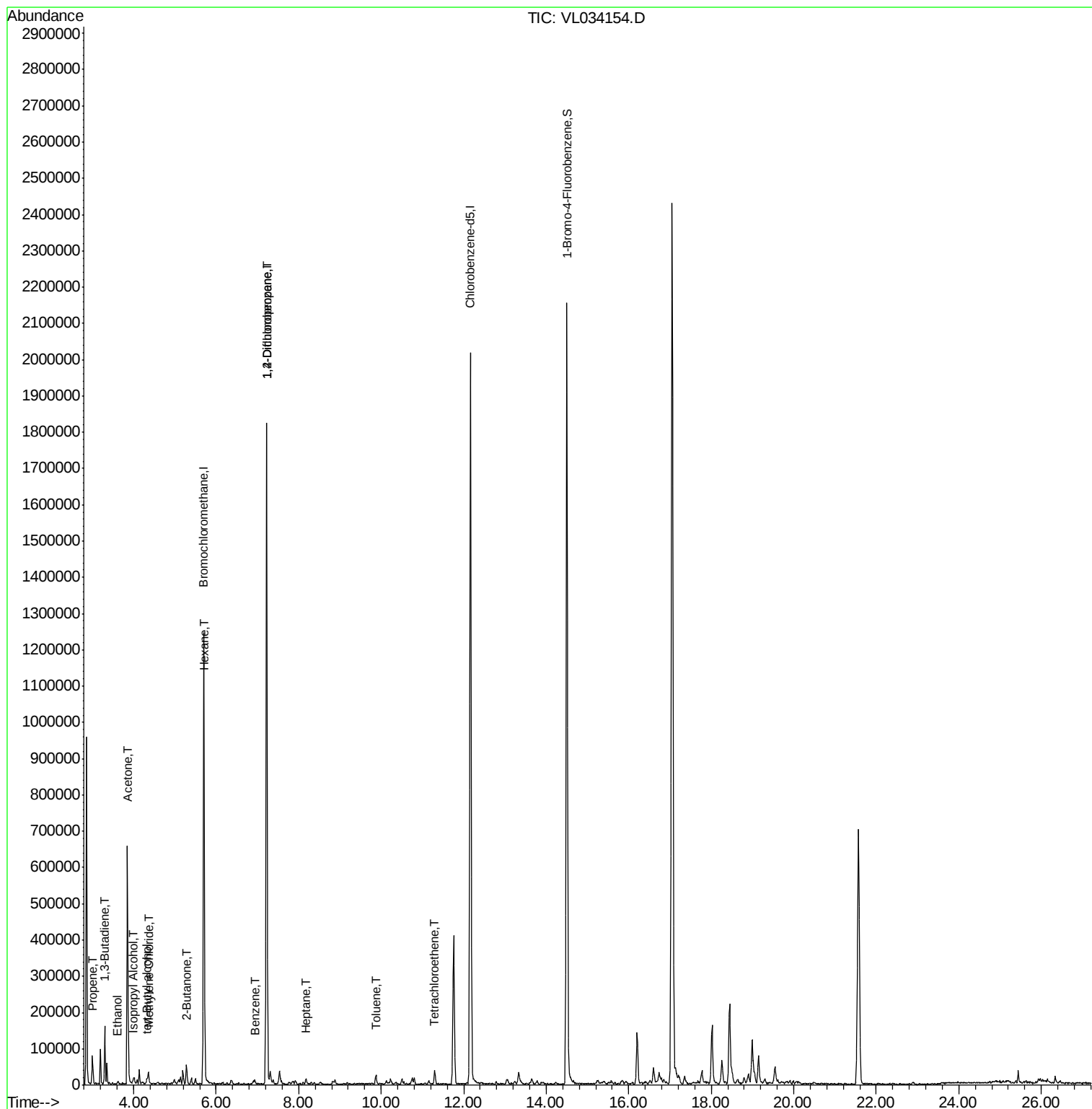
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	2.99	41	30230	0.741	ppbv #	83
10) Heptane	8.17	43	3337	0.032	ppbv #	29
13) Ethanol	3.61	45	4085	0.511	ppbv #	34
15) Acetone	3.85	43	653645	8.296	ppbv	99
16) 1,3-Butadiene	3.30	39	37950	0.951	ppbv #	20
17) tert-Butyl alcohol	4.32	59	3422	0.060	ppbv #	94
19) Isopropyl Alcohol	3.99	45	12537	0.236	ppbv #	97
20) Methylene Chloride	4.36	84	8561	0.329	ppbv #	90
26) Hexane	5.72	57	10393	0.135	ppbv #	27
34) 2-Butanone	5.28	43	64224	0.532	ppbv	97
36) Benzene	6.93	78	7256	0.051	ppbv #	91
39) 1,2-Dichloropropane	7.22	63	366920	5.969	ppbv #	25
52) Tetrachloroethene	11.30	164	3119	0.062	ppbv	86
53) Toluene	9.87	91	11143	0.070	ppbv #	65

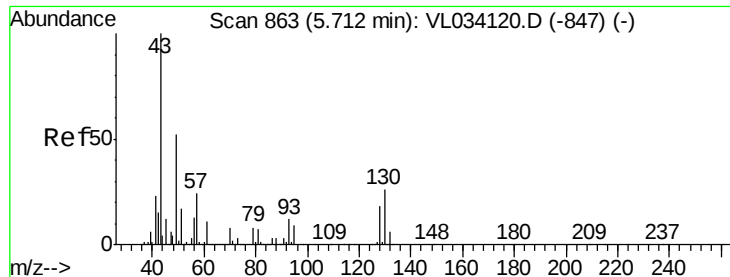
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL034154.D
Acq On : 10 Sep 2019 22:24
Operator : SY/AP
Sample : K4775-01DL2 200X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Quant Time: Sep 11 01:54:17 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.01 min

Lab File: VL034154.D

Acq: 10 Sep 2019 22:24

Instrument :

MSVOA_L

ClientSampleID :

SV1DL2

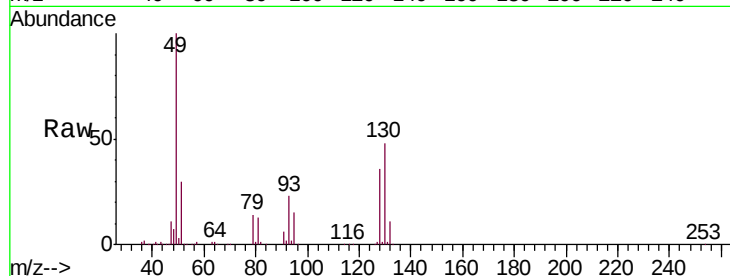
Tgt Ion: 49 Resp: 653727

Ion Ratio Lower Upper

49 100

128 37.9 18.4 55.0

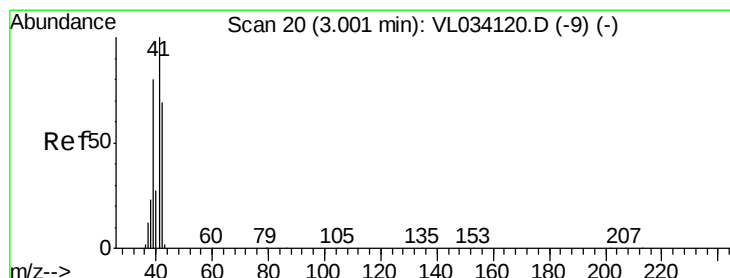
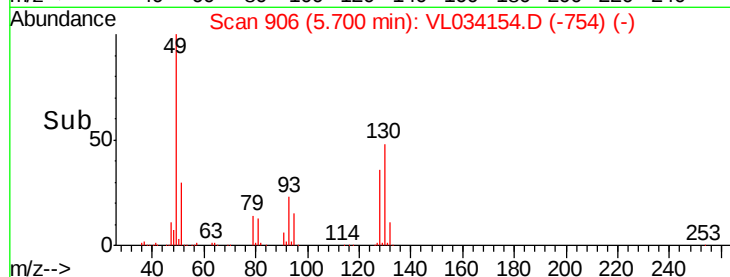
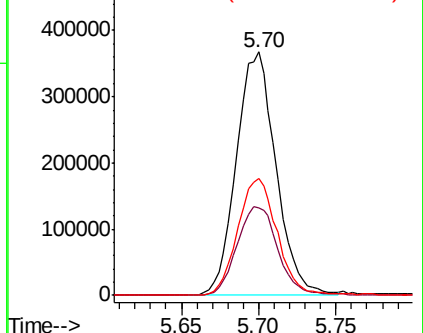
130 48.2 23.5 70.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.741 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL034154.D

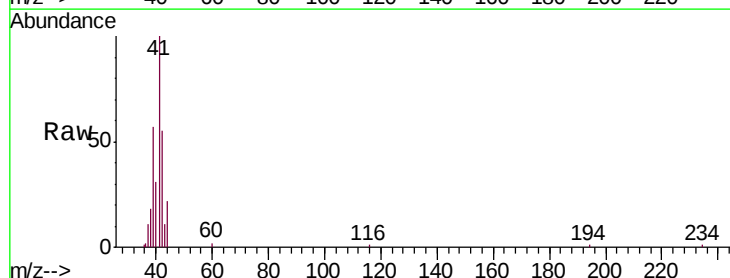
Acq: 10 Sep 2019 22:24

Tgt Ion: 41 Resp: 30230

Ion Ratio Lower Upper

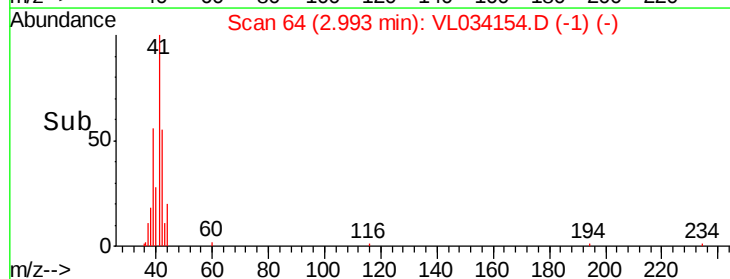
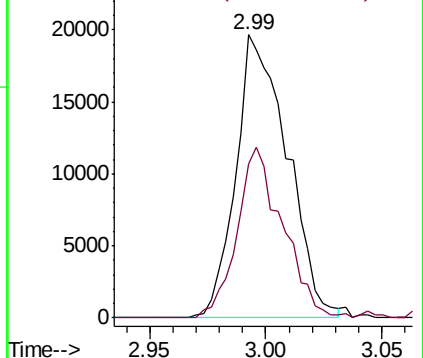
41 100

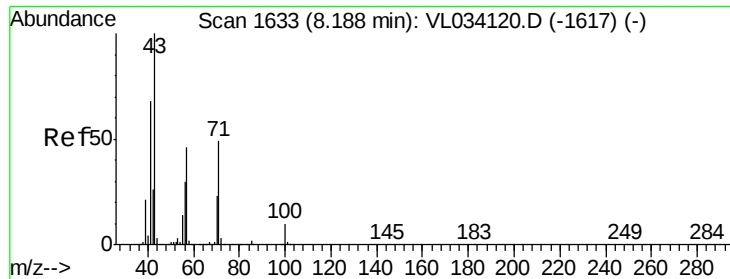
42 54.5 54.6 81.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.032 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. -0.02 min

Lab File: VL034154.D

Acq: 10 Sep 2019 22:24

Instrument :

MSVOA_L

ClientSampleId :

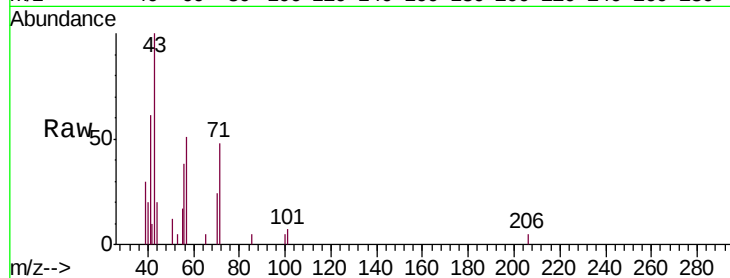
SV1DL2

Tgt Ion: 43 Resp: 3337

Ion Ratio Lower Upper

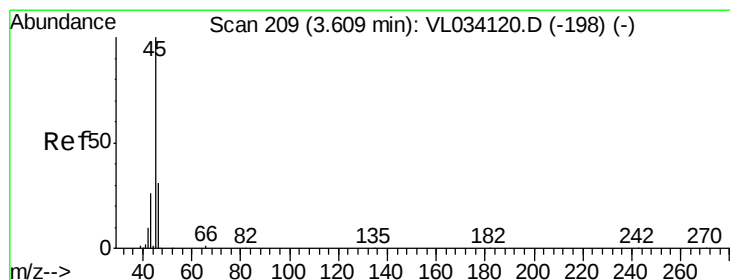
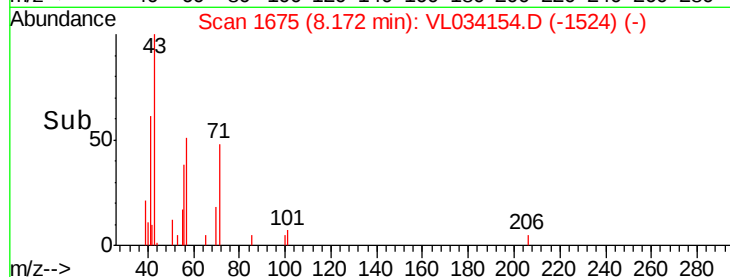
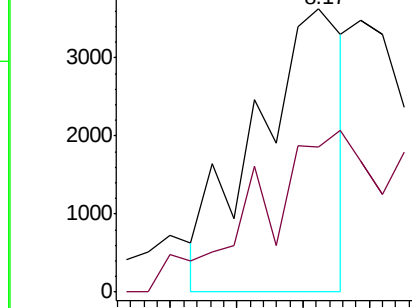
43 100

57 0.0 38.1 57.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.511 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL034154.D

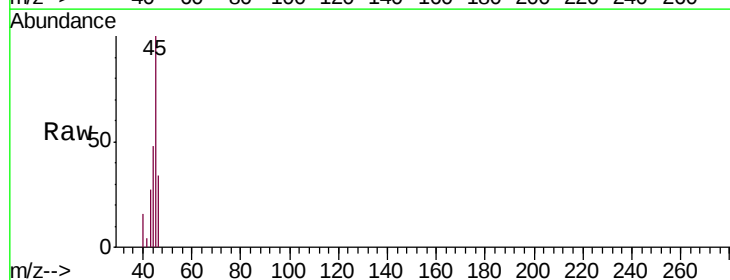
Acq: 10 Sep 2019 22:24

Tgt Ion: 45 Resp: 4085

Ion Ratio Lower Upper

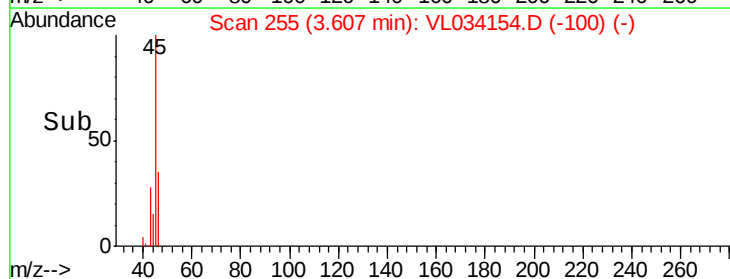
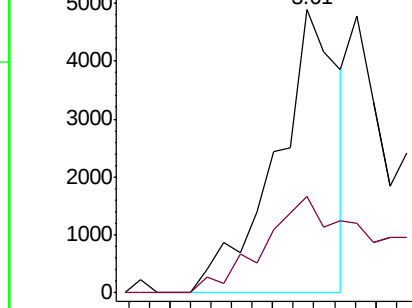
45 100

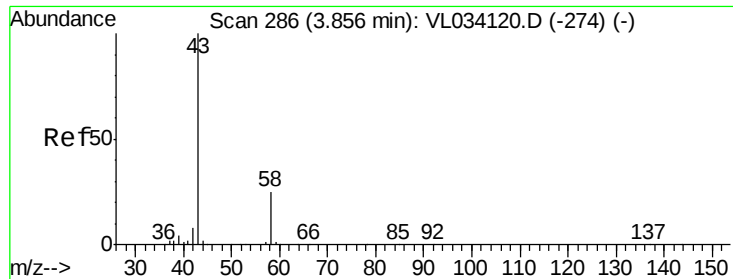
46 76.8 15.0 60.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 8.296 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL034154.D

Acq: 10 Sep 2019 22:24

Instrument :

MSVOA_L

ClientSampleId :

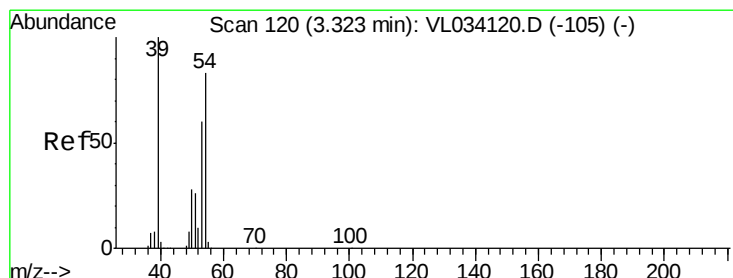
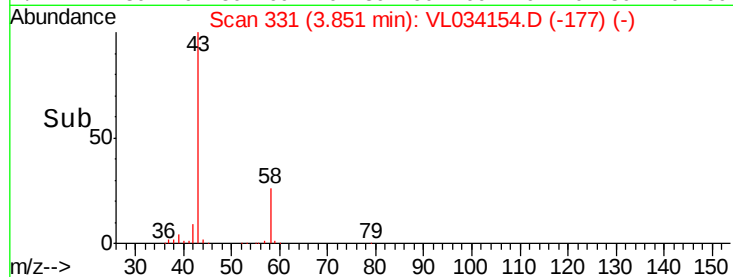
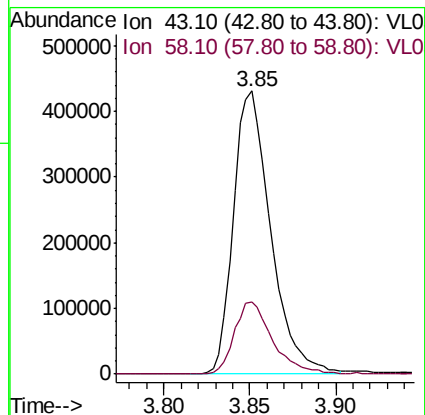
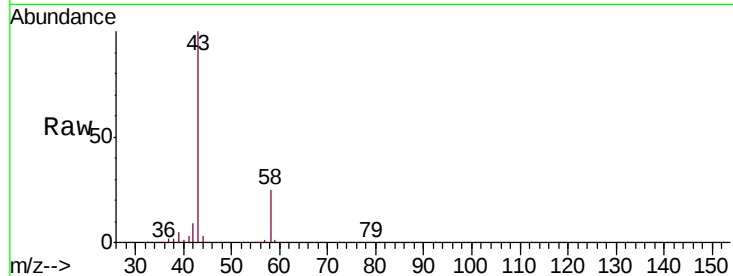
SV1DL2

Tgt Ion: 43 Resp: 653645

Ion Ratio Lower Upper

43 100

58 26.2 20.6 30.8



#16

1,3-Butadiene

Concen: 0.951 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL034154.D

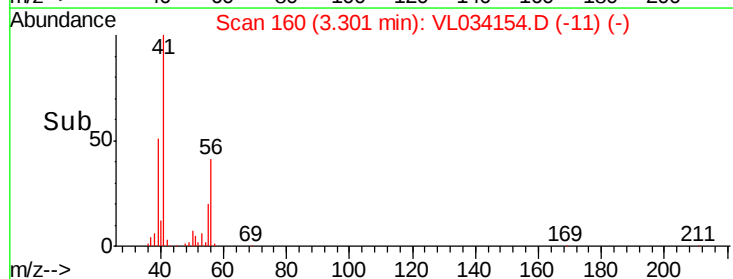
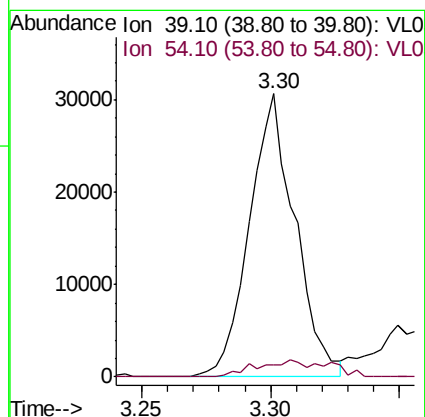
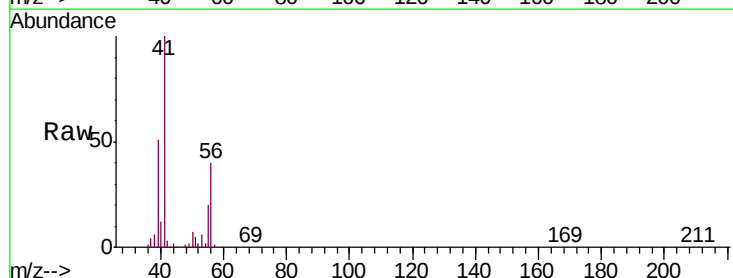
Acq: 10 Sep 2019 22:24

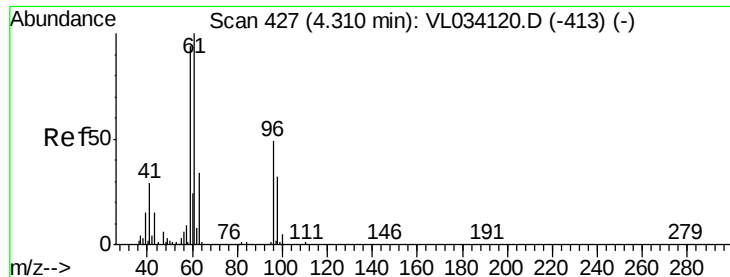
Tgt Ion: 39 Resp: 37950

Ion Ratio Lower Upper

39 100

54 9.4 63.5 95.3#



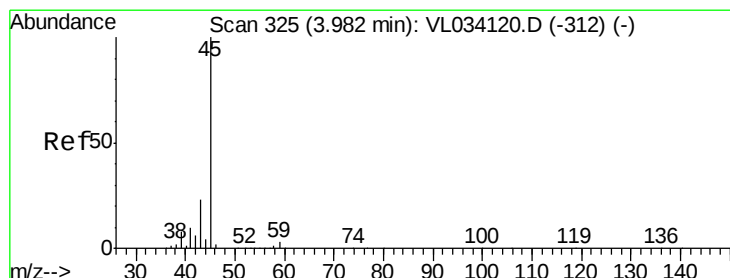
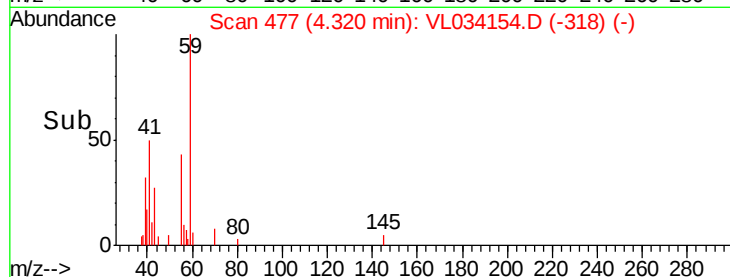
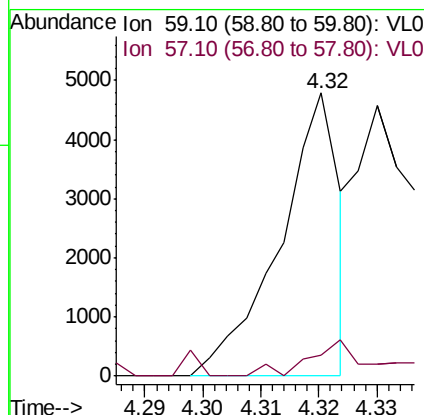
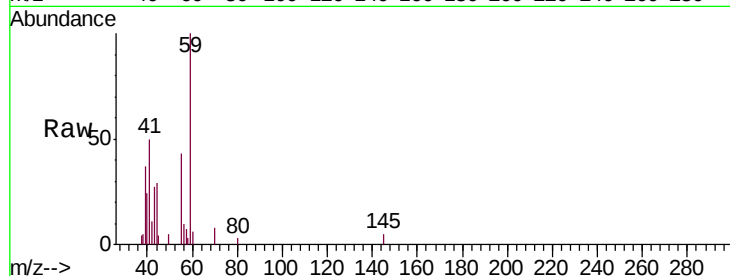


#17

tert-Butyl alcohol
 Concen: 0.060 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.01 min
 Lab File: VL034154.D
 Acq: 10 Sep 2019 22:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

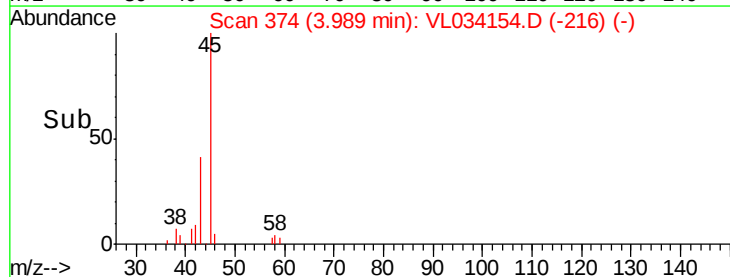
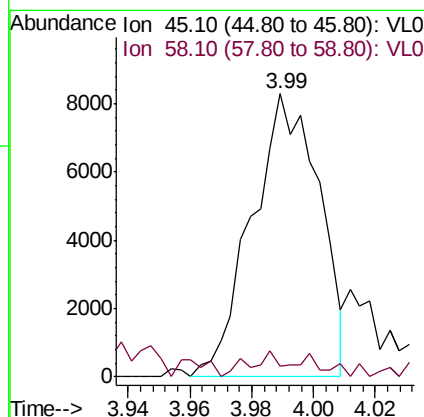
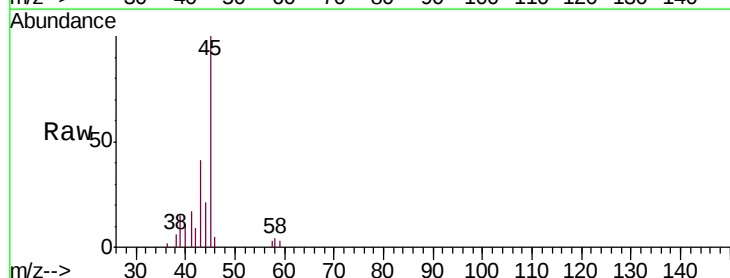
Tgt Ion: 59 Resp: 3422
 Ion Ratio Lower Upper
 59 100
 57 13.0 8.6 12.8#

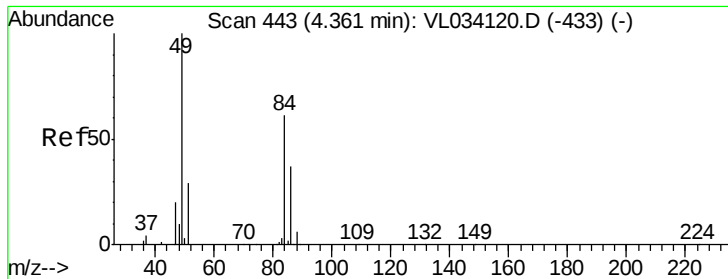


#19

Isopropyl Alcohol
 Concen: 0.236 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VL034154.D
 Acq: 10 Sep 2019 22:24

Tgt Ion: 45 Resp: 12537
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.0 1.6#

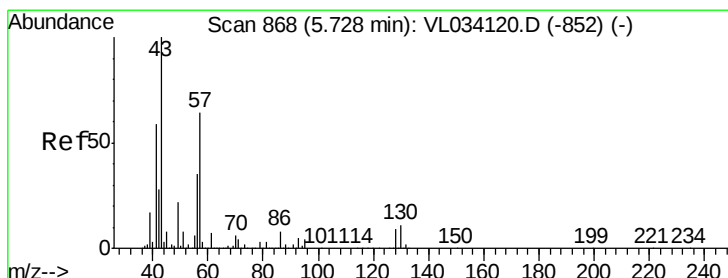
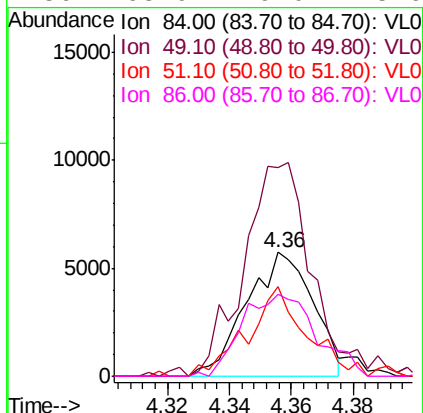
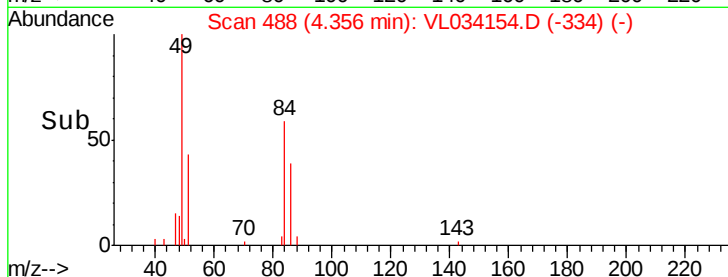
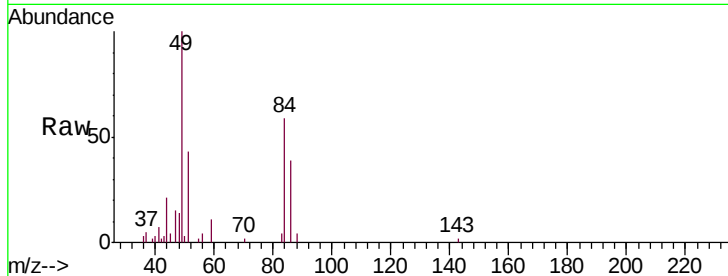




#20
Methylene Chloride
Concen: 0.329 ppbv
RT: 4.36 min Scan# 488
Delta R.T. -0.01 min
Lab File: VL034154.D
Acq: 10 Sep 2019 22:24

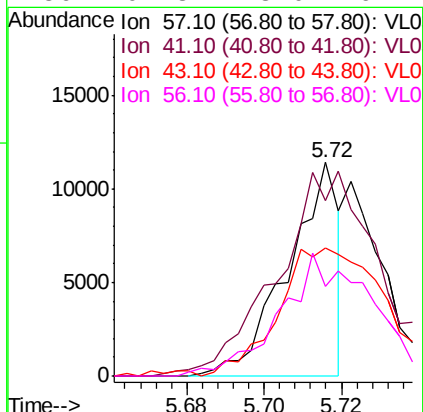
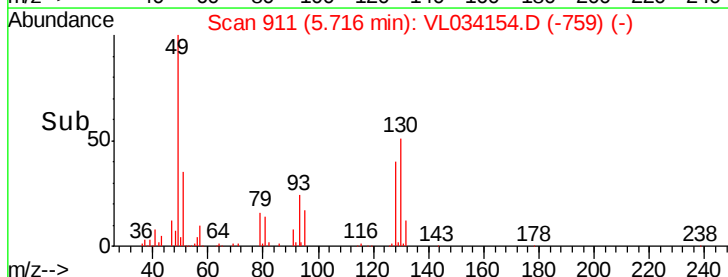
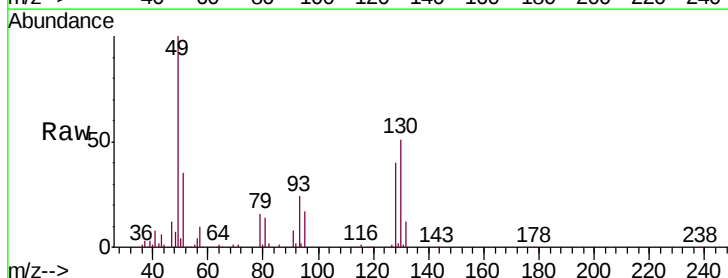
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

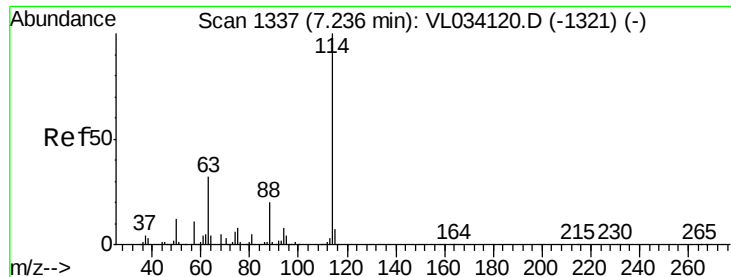
Tgt Ion: 84 Resp: 8561
Ion Ratio Lower Upper
84 100
49 168.7 131.0 196.6
51 72.1 38.1 57.1#
86 65.9 49.0 73.6



#26
Hexane
Concen: 0.135 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.01 min
Lab File: VL034154.D
Acq: 10 Sep 2019 22:24

Tgt Ion: 57 Resp: 10393
Ion Ratio Lower Upper
57 100
41 0.0 76.6 115.0#
43 129.7 189.2 283.8#
56 104.3 43.0 64.4#

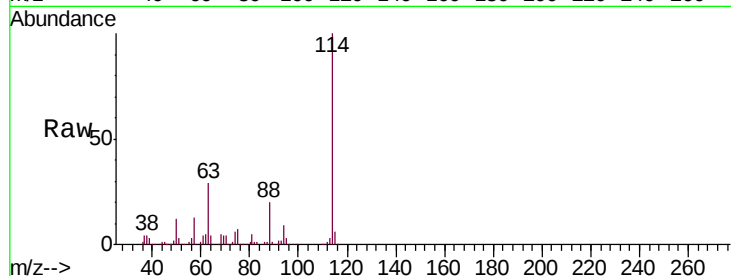




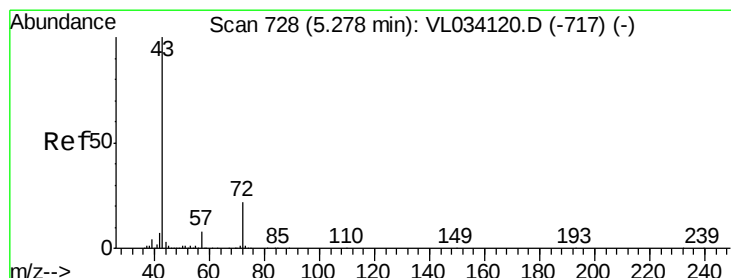
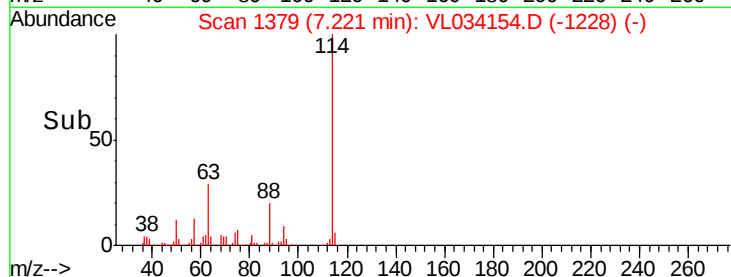
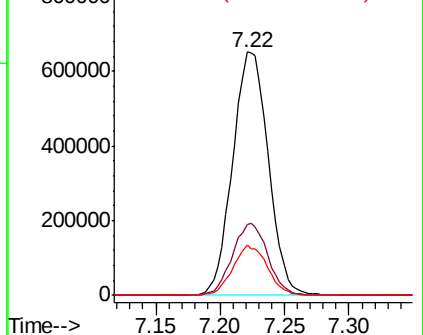
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.02 min
 Lab File: VL034154.D
 Acq: 10 Sep 2019 22:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

Tgt Ion: 114 Resp: 1256624
 Ion Ratio Lower Upper
 114 100
 63 29.3 25.5 38.3
 88 20.0 16.8 25.2

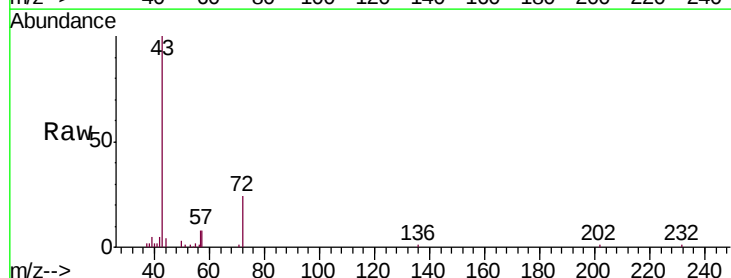


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

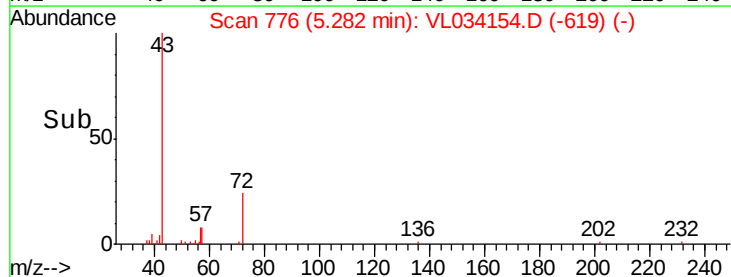
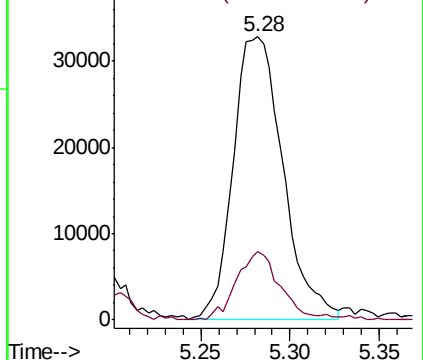


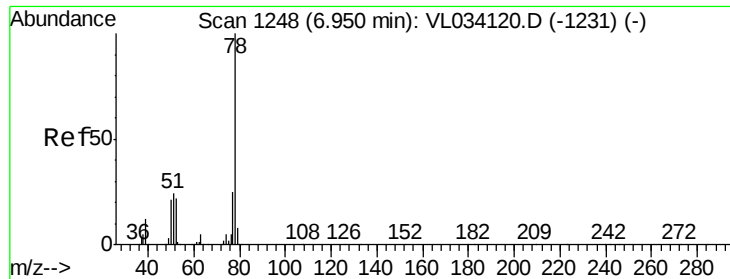
#34
 2-Butanone
 Concen: 0.532 ppbv
 RT: 5.28 min Scan# 776
 Delta R.T. 0.00 min
 Lab File: VL034154.D
 Acq: 10 Sep 2019 22:24

Tgt Ion: 43 Resp: 64224
 Ion Ratio Lower Upper
 43 100
 72 21.8 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: 0.051 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.02 min

Lab File: VL034154.D

Acq: 10 Sep 2019 22:24

Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

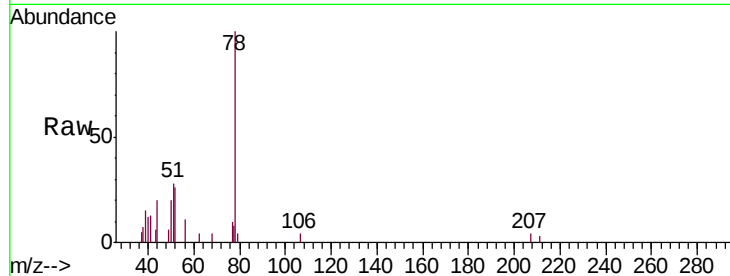
Tgt Ion: 78 Resp: 7256

Ion Ratio Lower Upper

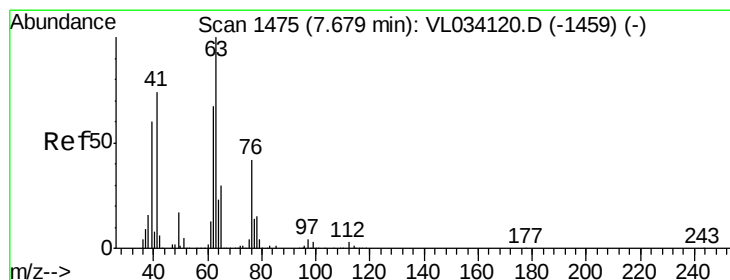
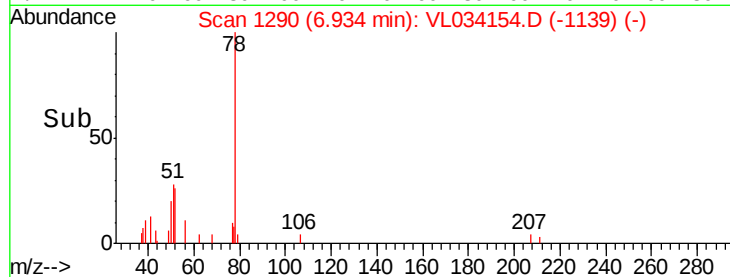
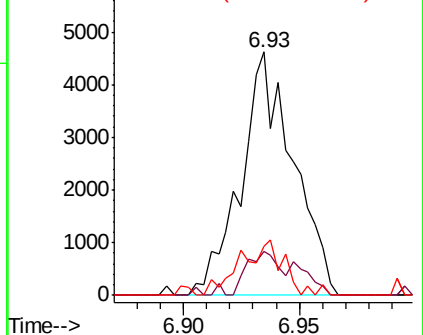
78 100

77 18.1 20.3 30.5#

50 20.0 16.9 25.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 5.969 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.46 min

Lab File: VL034154.D

Acq: 10 Sep 2019 22:24

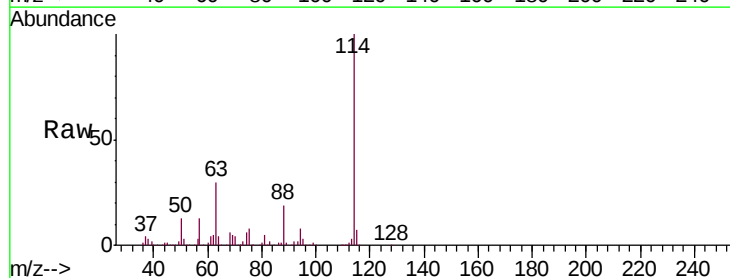
Tgt Ion: 63 Resp: 366920

Ion Ratio Lower Upper

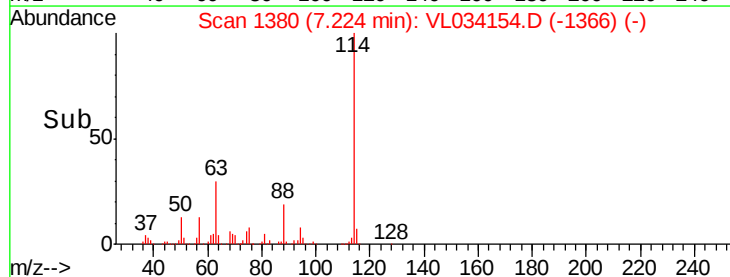
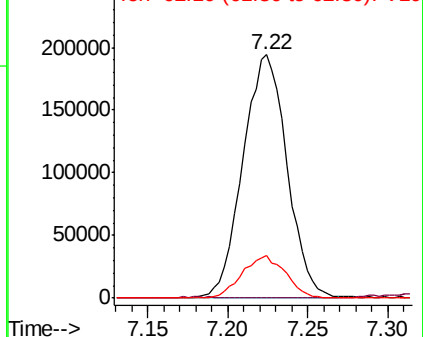
63 100

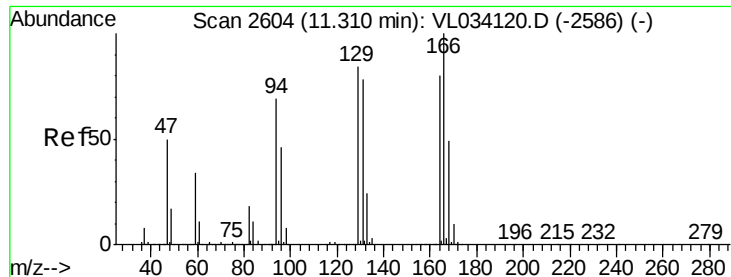
41 0.1 59.3 88.9#

62 17.6 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





#52

Tetrachloroethene

Concen: 0.062 ppbv

RT: 11.30 min Scan# 2648

Delta R.T. -0.01 min

Lab File: VL034154.D

Acq: 10 Sep 2019 22:24

Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

Tgt Ion:164 Resp: 3119

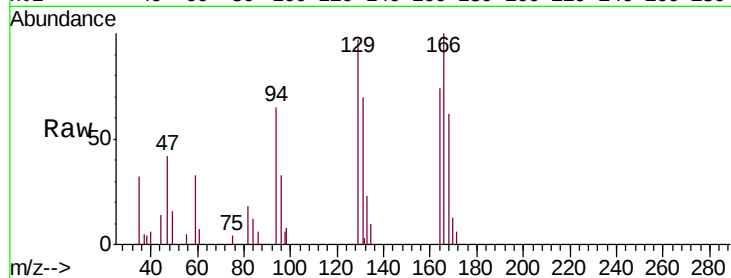
Ion Ratio Lower Upper

164 100

166 101.3 99.5 149.3

129 123.0 83.6 125.4

131 98.1 77.9 116.9

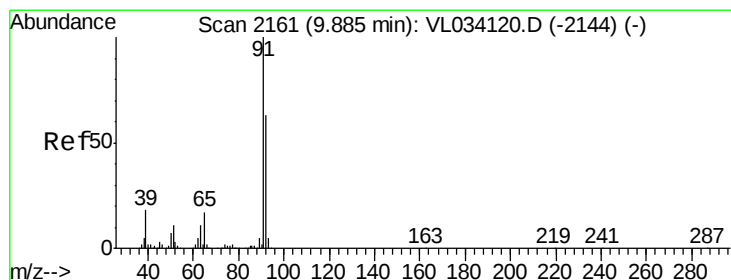
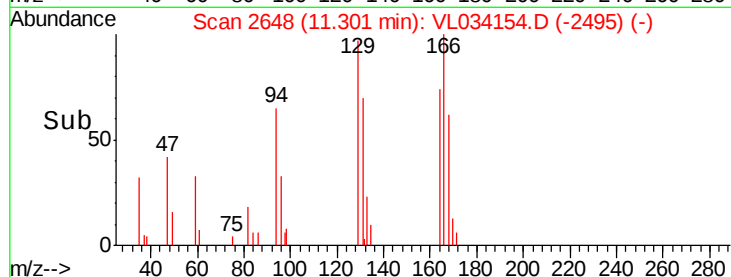
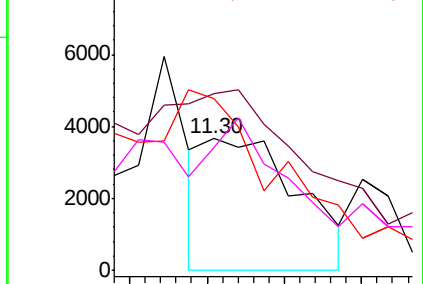


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.070 ppbv

RT: 9.87 min Scan# 2203

Delta R.T. -0.02 min

Lab File: VL034154.D

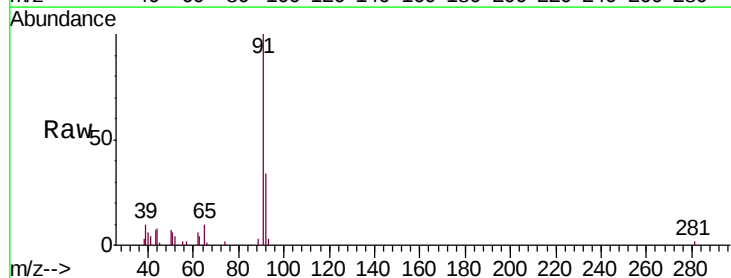
Acq: 10 Sep 2019 22:24

Tgt Ion: 91 Resp: 11143

Ion Ratio Lower Upper

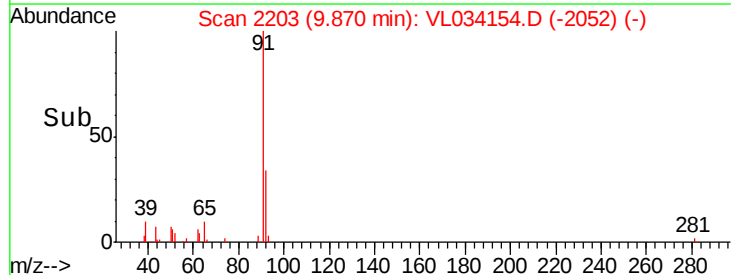
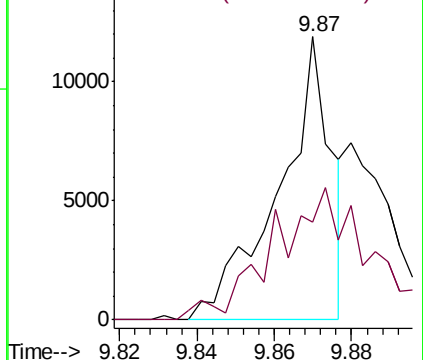
91 100

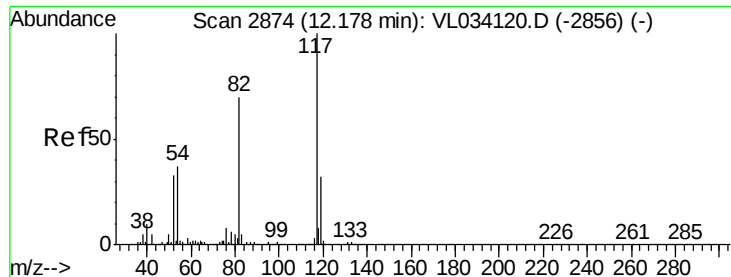
92 88.1 49.3 73.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

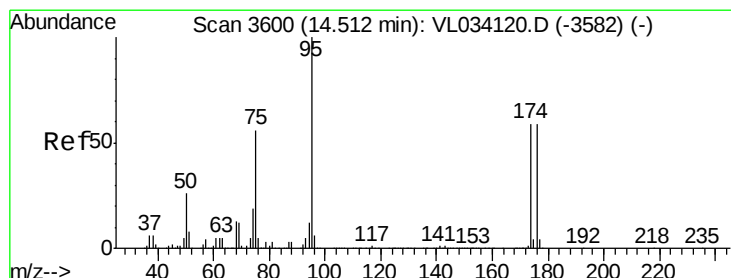
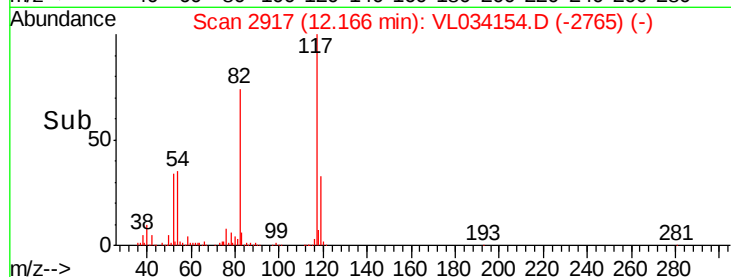
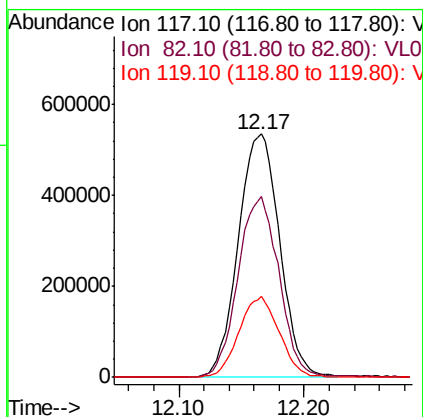
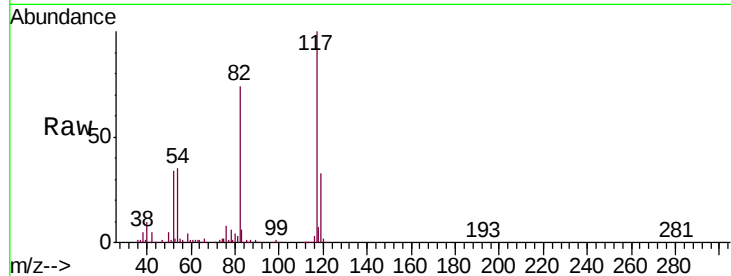




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL034154.D
Acq: 10 Sep 2019 22:24

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Tgt Ion: 117 Resp: 1231073
Ion Ratio Lower Upper
117 100
82 73.9 55.8 83.6
119 32.4 43.1 64.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.355 ppbv
RT: 14.50 min Scan# 3643
Delta R.T. -0.01 min
Lab File: VL034154.D
Acq: 10 Sep 2019 22:24

Tgt Ion: 95 Resp: 1042197
Ion Ratio Lower Upper
95 100
174 61.5 48.1 72.1
175 4.6 3.5 5.3

