

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034267.D
 Acq On : 9 Oct 2019 3:09
 Operator : SY/AP
 Sample : K5243-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Oct 09 05:22:49 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	1146493	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1923034	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1858664	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1671958	10.35	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

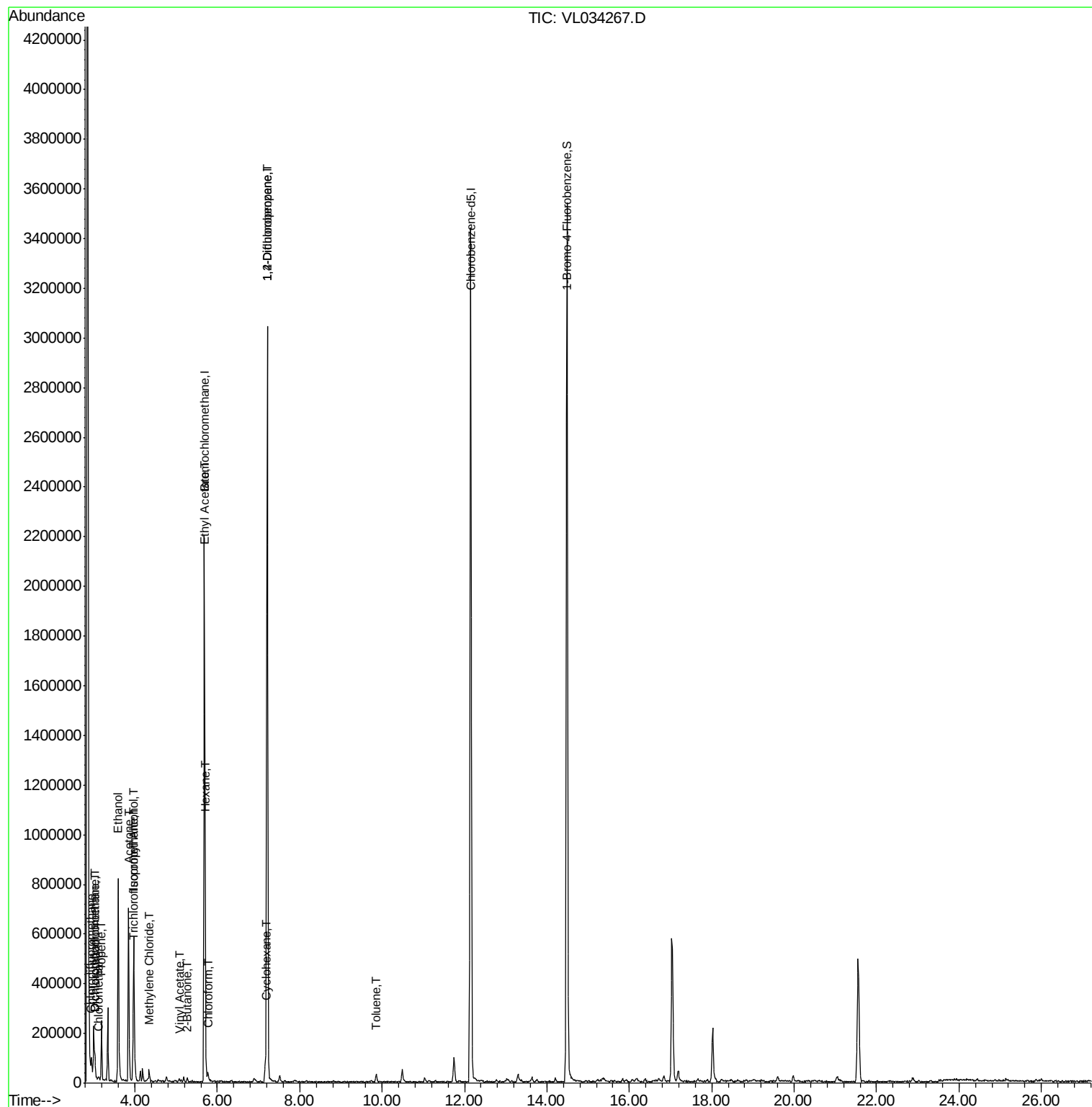
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	51216	0.302	ppbv	94
3) Chlorodifluoromethane	2.94	51	34635	0.258	ppbv #	69
4) Chloromethane	3.12	50	4505	0.057	ppbv #	75
8) Dichlorotetrafluoroethane	3.03	85	51216	0.343	ppbv #	21
9) Propene	3.19	41	59553	0.898	ppbv	99
11) Trichlorofluoromethane	3.95	101	8969	0.058	ppbv	100
13) Ethanol	3.59	45	794656	49.480	ppbv	95
15) Acetone	3.84	43	667674	4.345	ppbv	98
19) Isopropyl Alcohol	3.97	45	641626	6.790	ppbv #	98
20) Methylene Chloride	4.34	84	6455	0.146	ppbv #	69
23) Vinyl Acetate	5.08	43	7961	0.035	ppbv #	50
25) Ethyl Acetate	5.70	43	17963	0.062	ppbv #	90
26) Hexane	5.71	57	4841	0.040	ppbv #	1
29) Chloroform	5.78	83	7219	0.042	ppbv	84
30) Cyclohexane	7.17	84	12472	0.143	ppbv #	35
34) 2-Butanone	5.26	43	8349	0.043	ppbv #	42
39) 1,2-Dichloropropane	7.21	63	629058	6.592	ppbv #	21
53) Toluene	9.85	91	8834	0.038	ppbv #	23

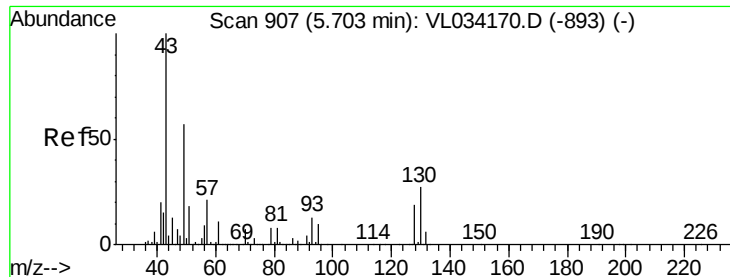
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
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MSVOA_L
ClientSampled :
IA2DL

Quant Time: Oct 09 05:22:49 2019
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

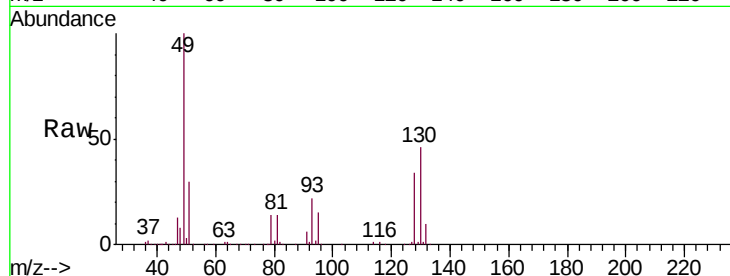
Tgt Ion: 49 Resp: 1146493

Ion Ratio Lower Upper

49 100

128 34.8 17.6 52.9

130 45.7 22.3 66.9

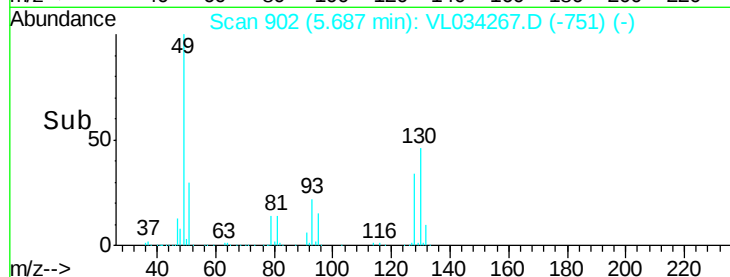


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



5.69

800000

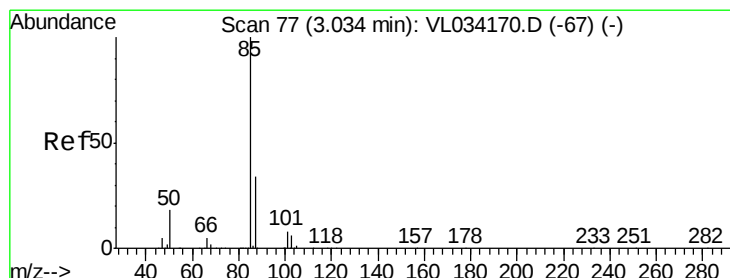
600000

400000

200000

0

5.60 5.65 5.70 5.75



#2

Dichlorodifluoromethane

Concen: 0.302 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034267.D

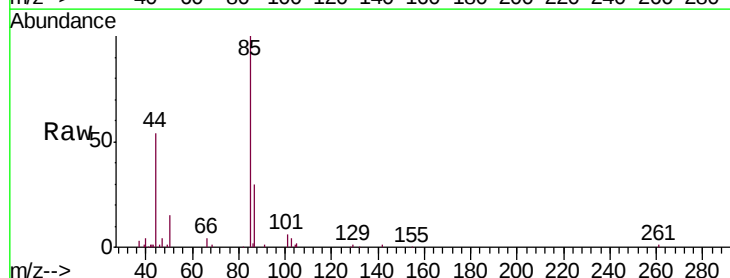
Acq: 9 Oct 2019 3:09

Tgt Ion: 85 Resp: 51216

Ion Ratio Lower Upper

85 100

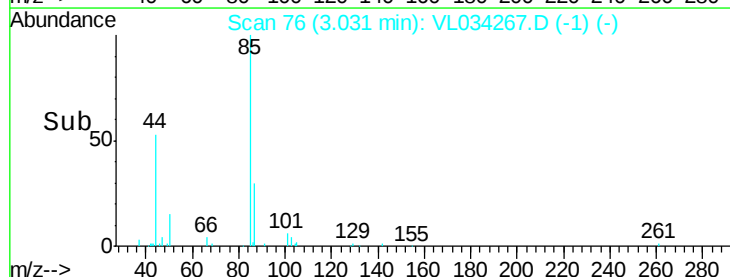
87 30.5 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



50000

40000

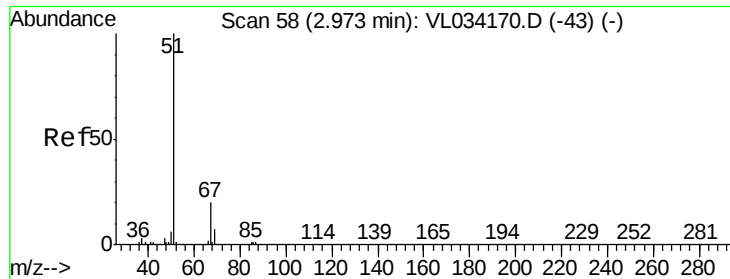
30000

20000

10000

0

3.00 3.05



#3

Chlorodifluoromethane

Concen: 0.258 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.03 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

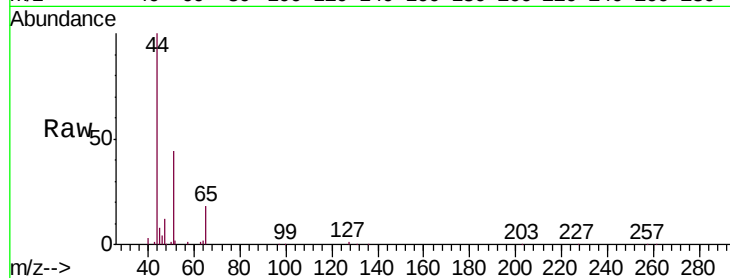
IA2DL

Tgt Ion: 51 Resp: 34635

Ion Ratio Lower Upper

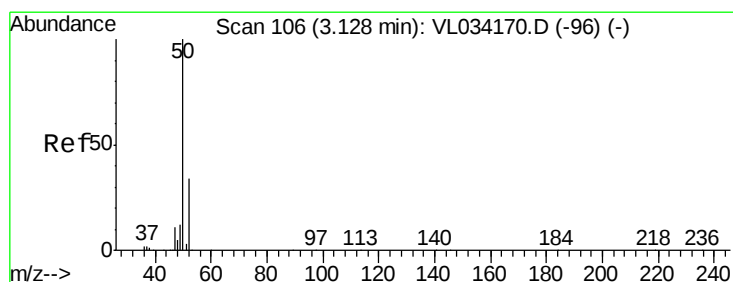
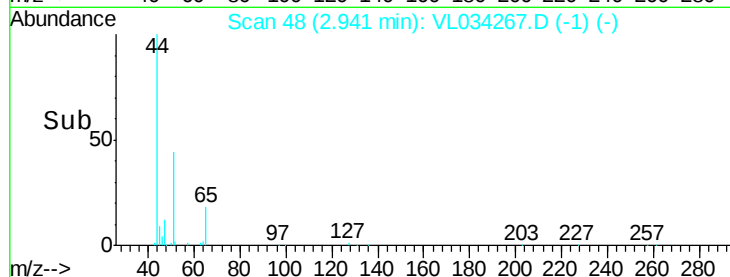
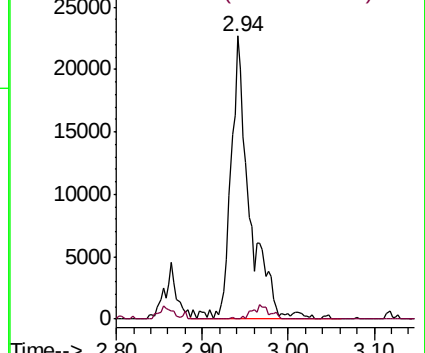
51 100

67 4.6 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034267.D

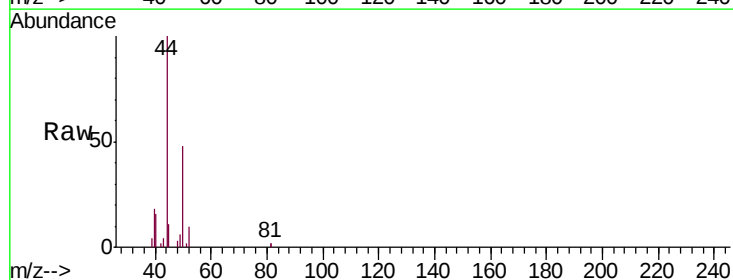
Acq: 9 Oct 2019 3:09

Tgt Ion: 50 Resp: 4505

Ion Ratio Lower Upper

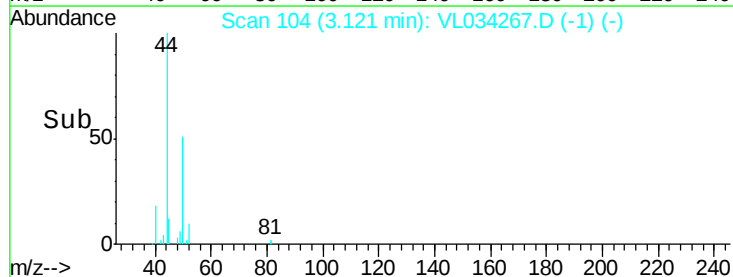
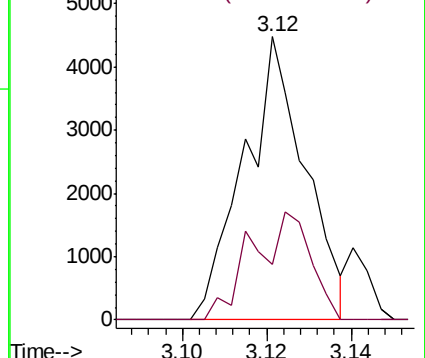
50 100

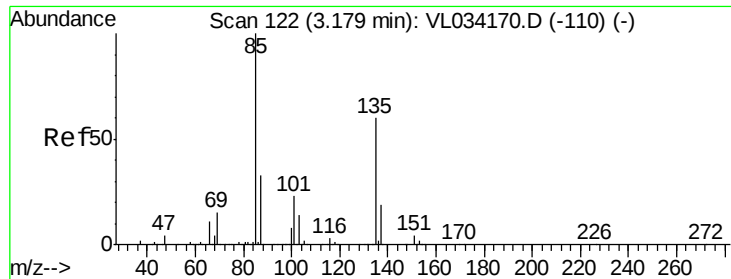
52 19.8 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.343 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.15 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

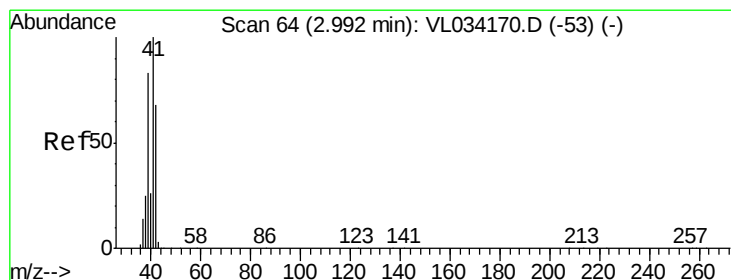
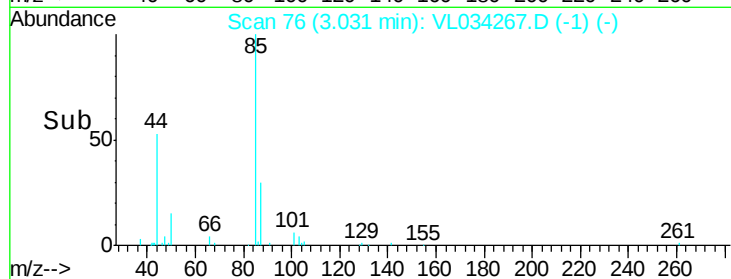
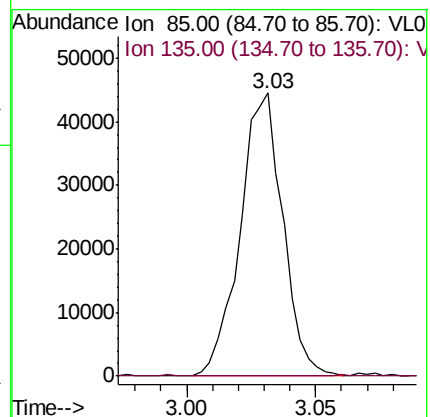
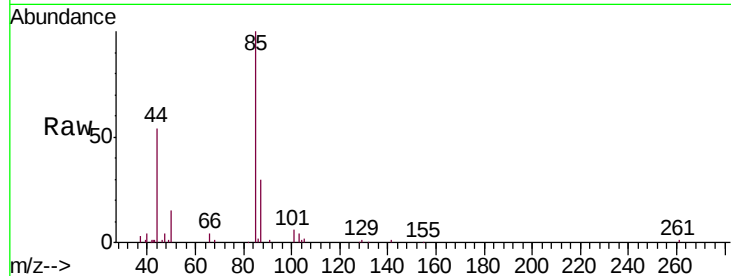
IA2DL

Tgt Ion: 85 Resp: 51216

Ion Ratio Lower Upper

85 100

135 0.1 47.3 70.9#



#9

Propene

Concen: 0.898 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.20 min

Lab File: VL034267.D

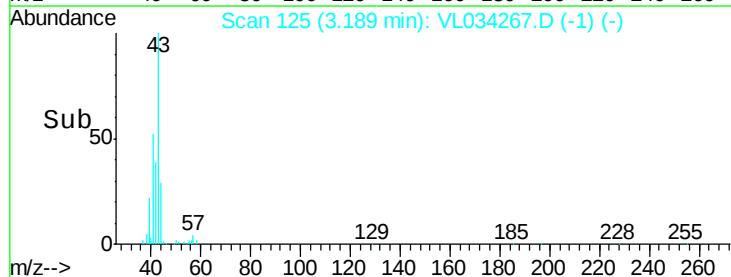
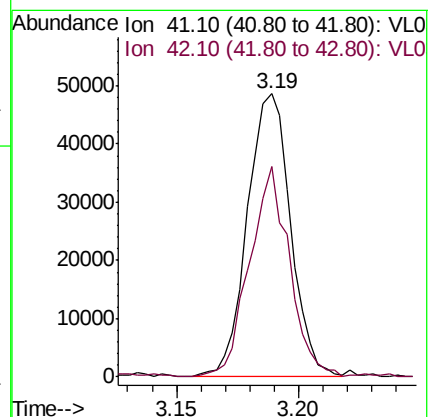
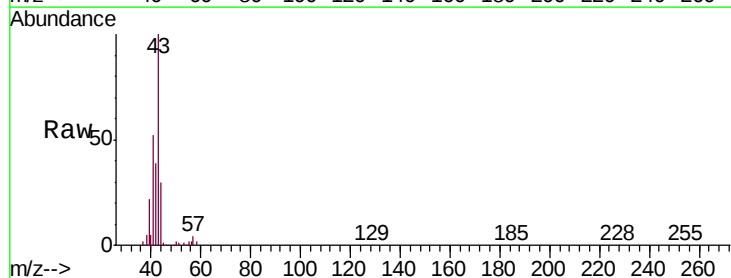
Acq: 9 Oct 2019 3:09

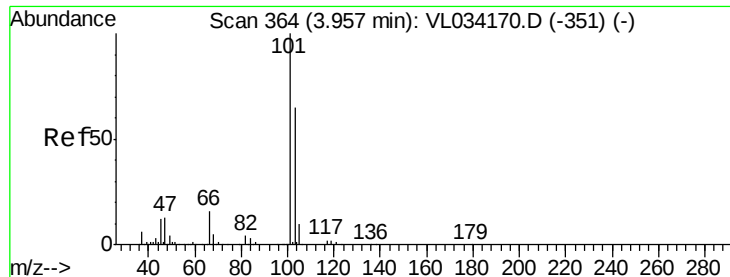
Tgt Ion: 41 Resp: 59553

Ion Ratio Lower Upper

41 100

42 69.3 55.8 83.6





#11

Trichlorofluoromethane

Concen: 0.058 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

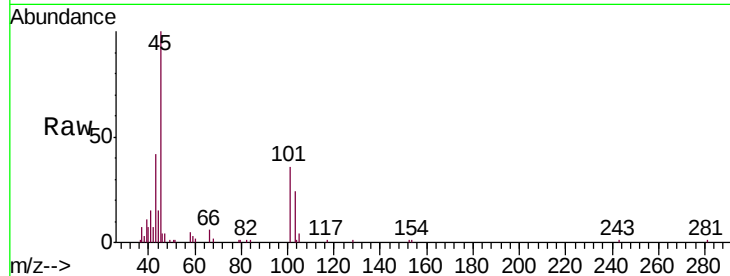
IA2DL

Tgt Ion: 101 Resp: 8969

Ion Ratio Lower Upper

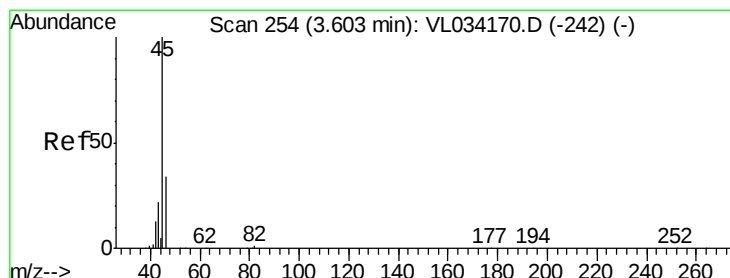
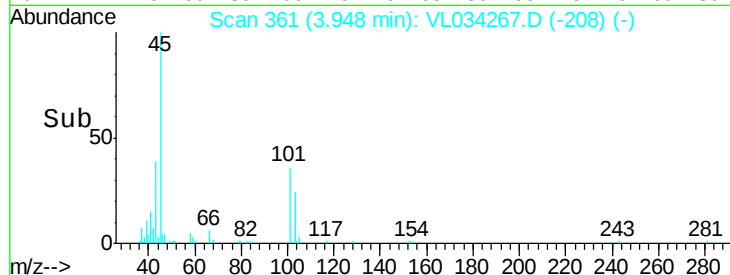
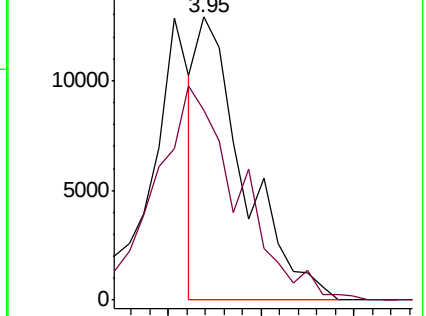
101 100

103 65.3 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 49.480 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL034267.D

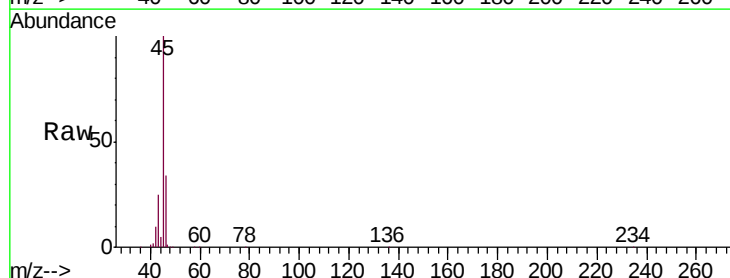
Acq: 9 Oct 2019 3:09

Tgt Ion: 45 Resp: 794656

Ion Ratio Lower Upper

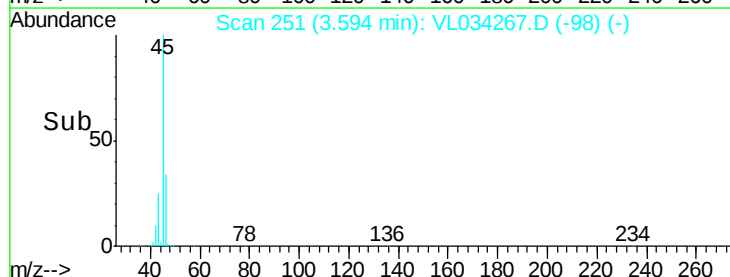
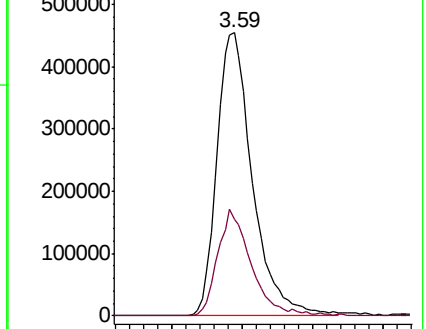
45 100

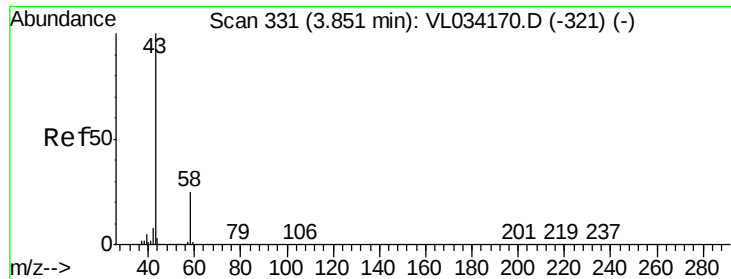
46 35.8 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.345 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

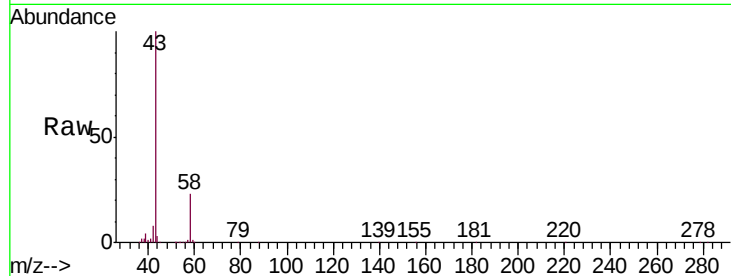
IA2DL

Tgt Ion: 43 Resp: 667674

Ion Ratio Lower Upper

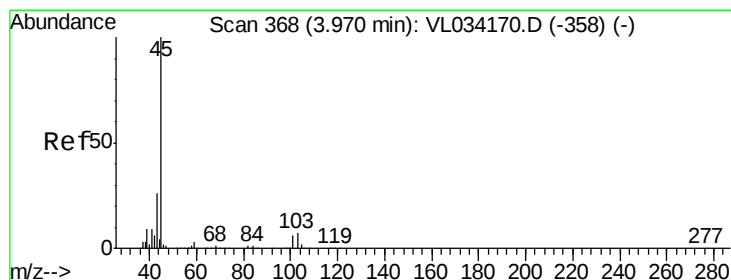
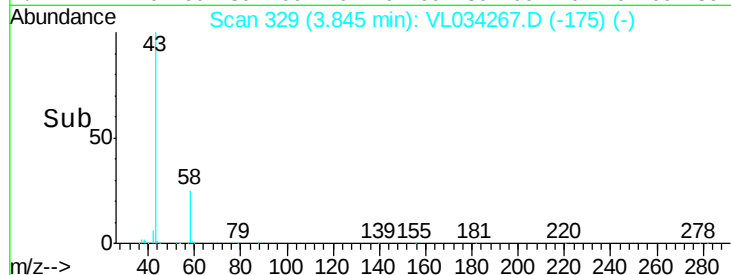
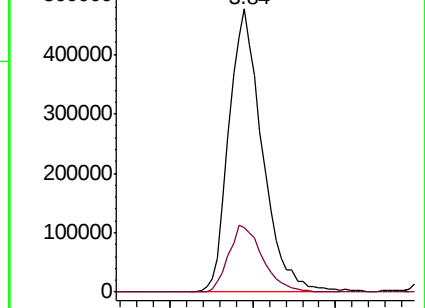
43 100

58 24.4 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 6.790 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL034267.D

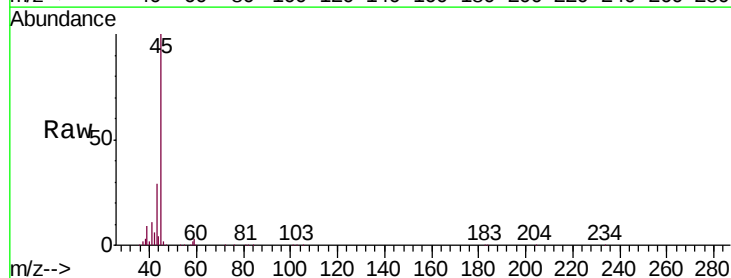
Acq: 9 Oct 2019 3:09

Tgt Ion: 45 Resp: 641626

Ion Ratio Lower Upper

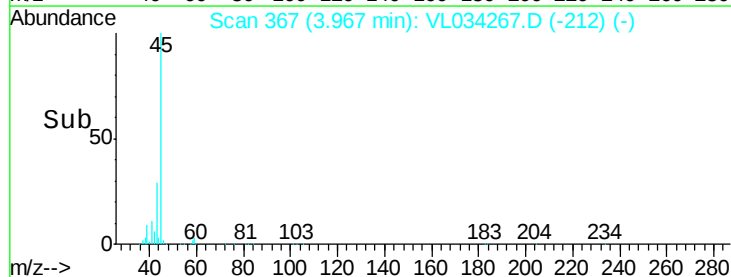
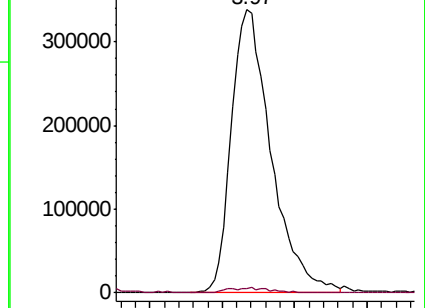
45 100

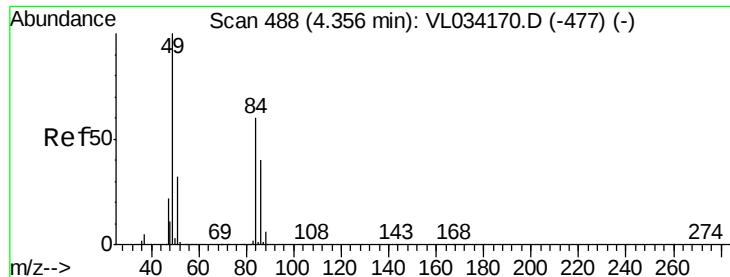
58 2.3 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

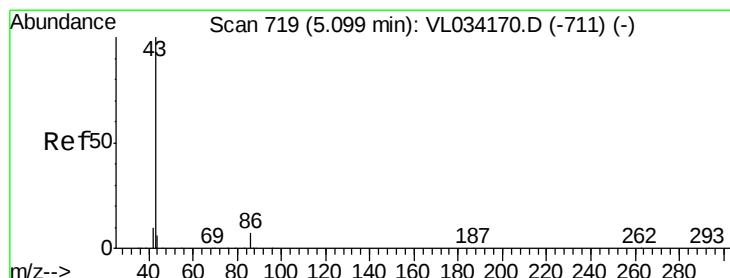
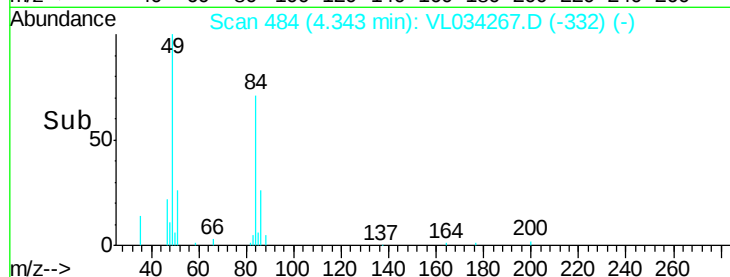
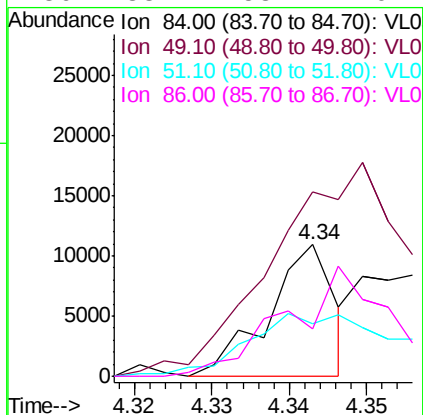
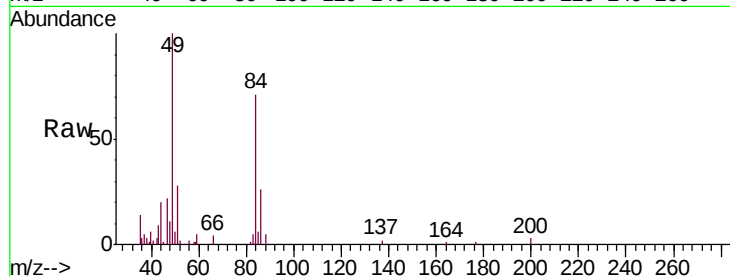




#20
Methylene Chloride
Concen: 0.146 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034267.D
Acq: 9 Oct 2019 3:09

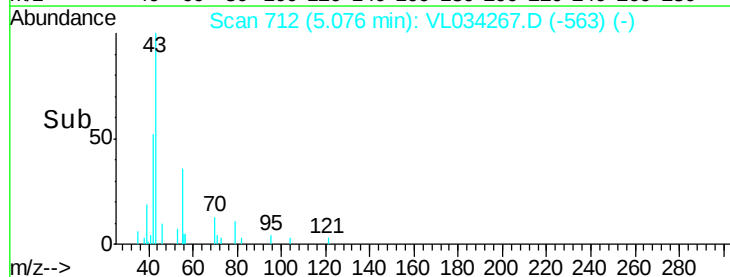
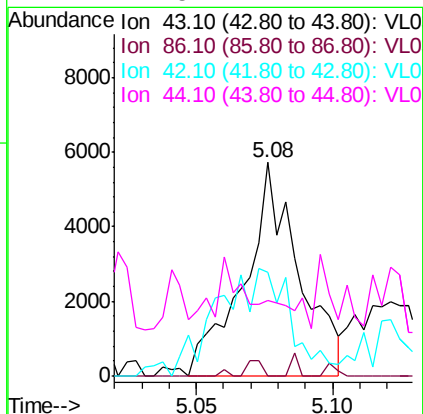
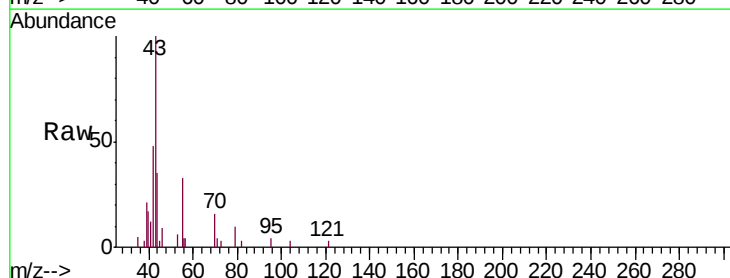
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

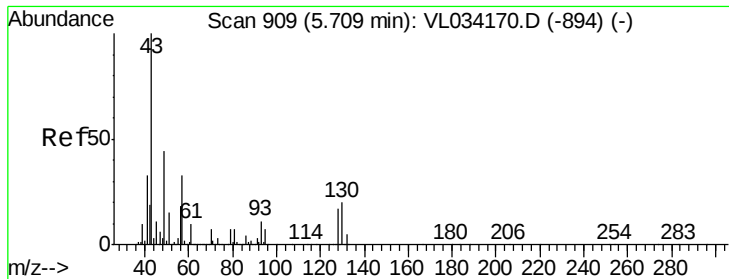
Tgt Ion:	84	Resp:	6455
Ion	Ratio	Lower	Upper
84	100		
49	131.6	133.8	200.8#
51	32.8	43.6	65.4#
86	33.2	53.1	79.7#



#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 5.08 min Scan# 712
Delta R.T. -0.02 min
Lab File: VL034267.D
Acq: 9 Oct 2019 3:09

Tgt Ion:	43	Resp:	7961
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.1	7.7#
42	42.9	8.6	12.8#
44	12.5	4.7	7.1#





#25

Ethyl Acetate

Concen: 0.062 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 43 Resp: 17963

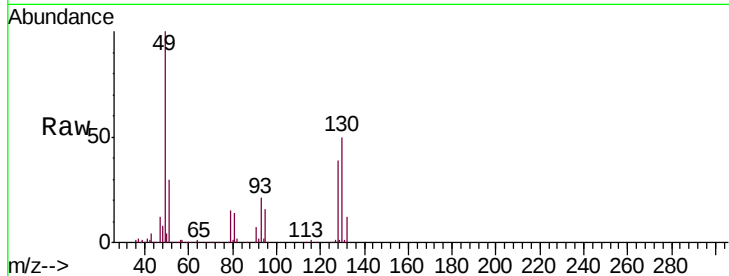
Ion Ratio Lower Upper

43 100

45 17.2 8.4 12.6#

61 7.5 7.2 10.8

70 8.6 5.3 7.9#

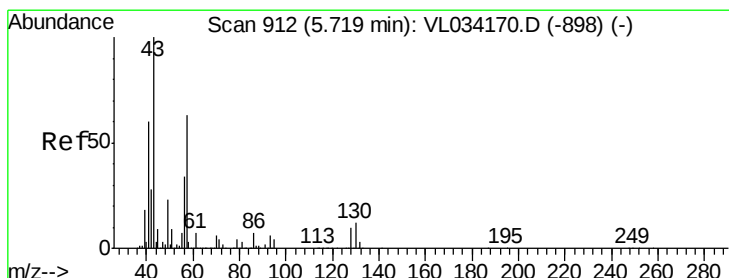
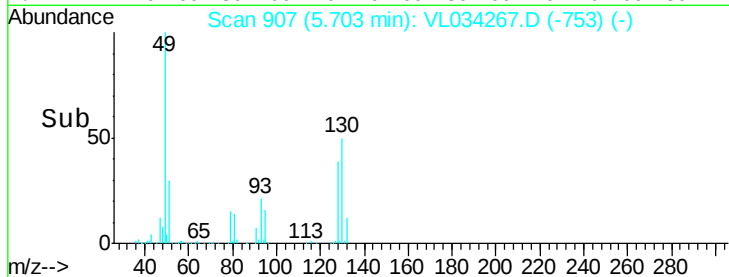
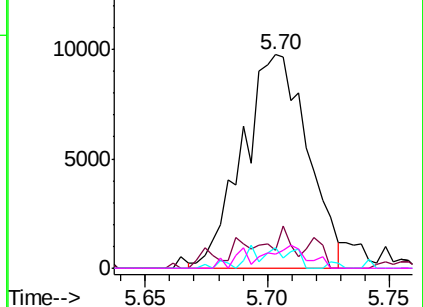


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.040 ppbv

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Tgt Ion: 57 Resp: 4841

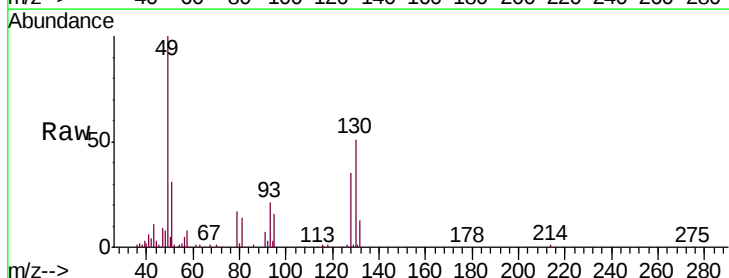
Ion Ratio Lower Upper

57 100

41 214.1 78.5 117.7#

43 401.3 189.5 284.3#

56 138.9 43.2 64.8#

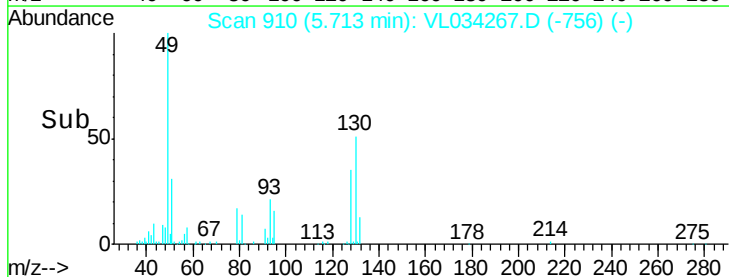
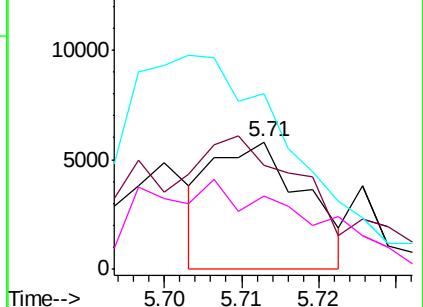


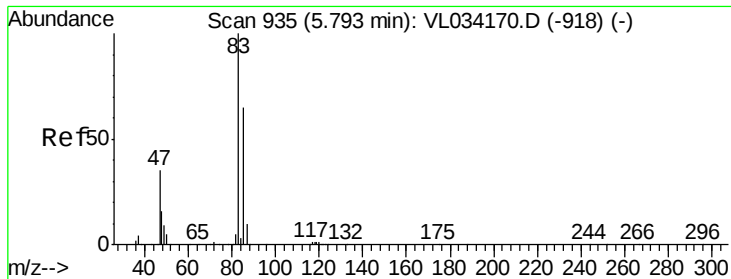
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

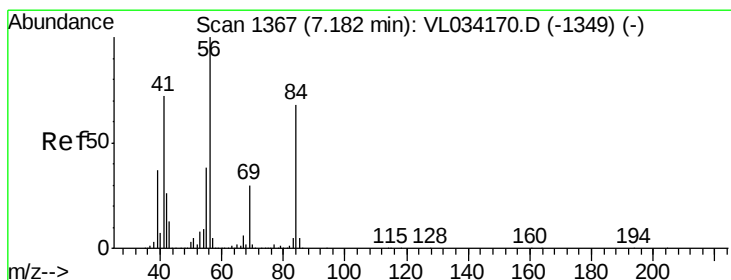
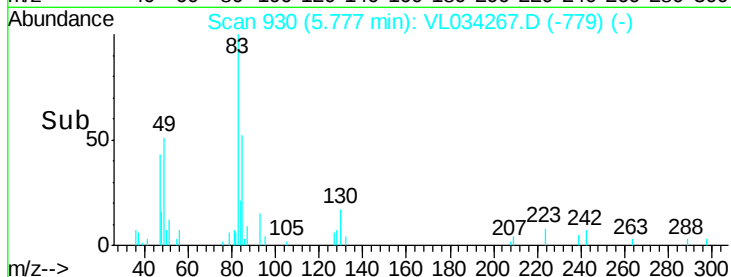
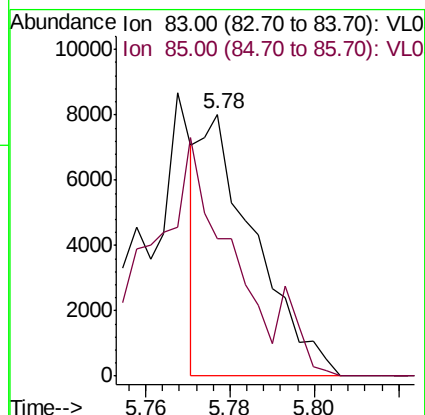
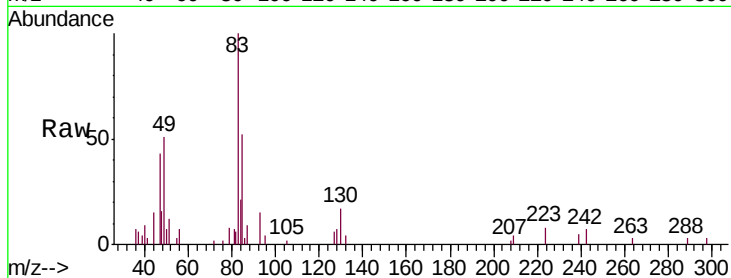




#29
Chloroform
Concen: 0.042 ppbv
RT: 5.78 min Scan# 930
Delta R.T. -0.02 min
Lab File: VL034267.D
Acq: 9 Oct 2019 3:09

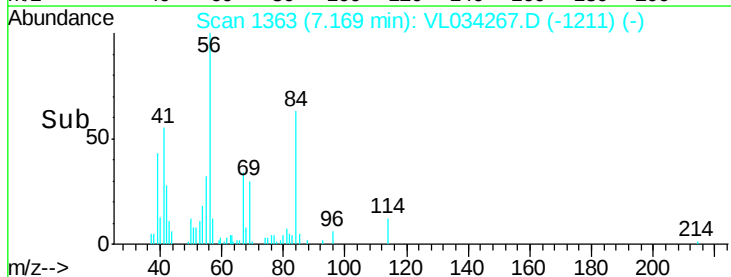
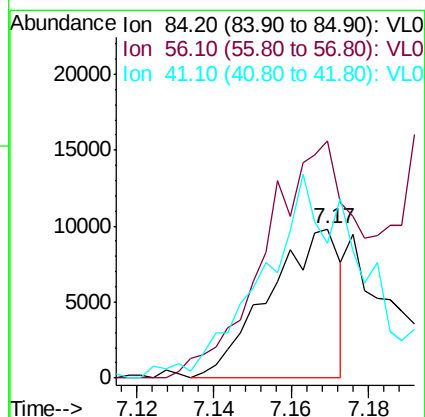
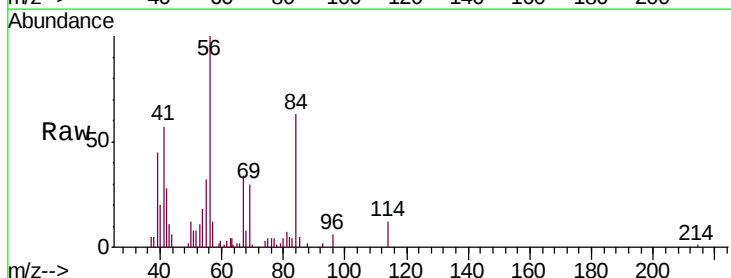
Instrument :
MSVOA_L
ClientSampled :
IA2DL

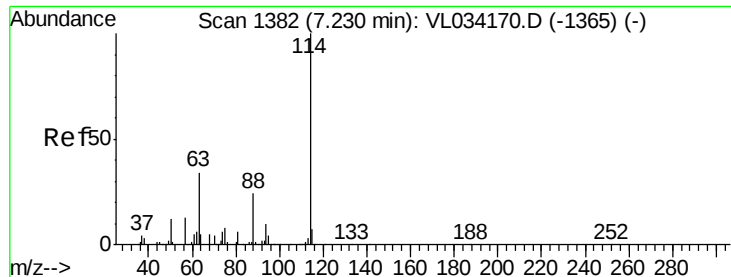
Tgt Ion: 83 Resp: 7219
Ion Ratio Lower Upper
83 100
85 52.4 52.3 78.5



#30
Cyclohexane
Concen: 0.143 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL034267.D
Acq: 9 Oct 2019 3:09

Tgt Ion: 84 Resp: 12472
Ion Ratio Lower Upper
84 100
56 225.9 126.2 189.2#
41 195.0 85.8 128.8#

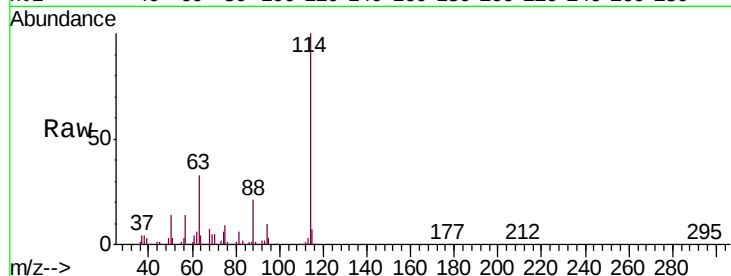




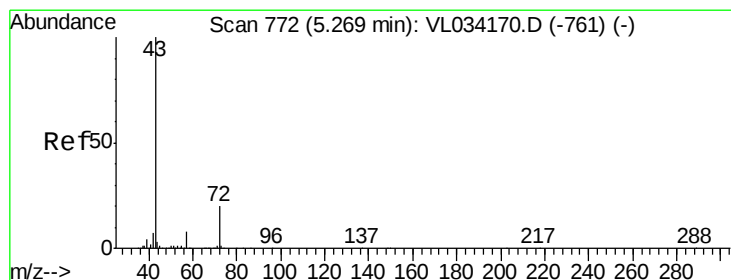
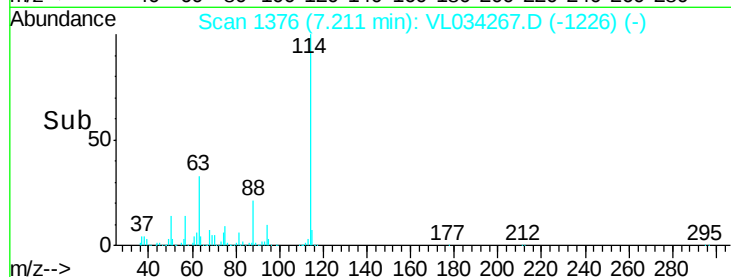
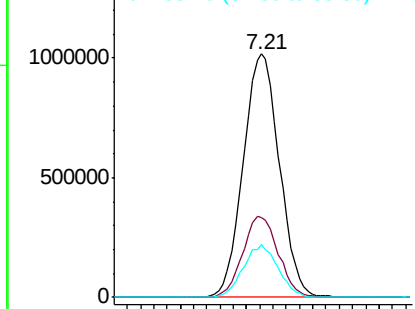
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VL034267.D
 Acq: 9 Oct 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Tgt Ion:114 Resp: 1923034
 Ion Ratio Lower Upper
 114 100
 63 32.8 27.8 41.6
 88 20.9 17.1 25.7

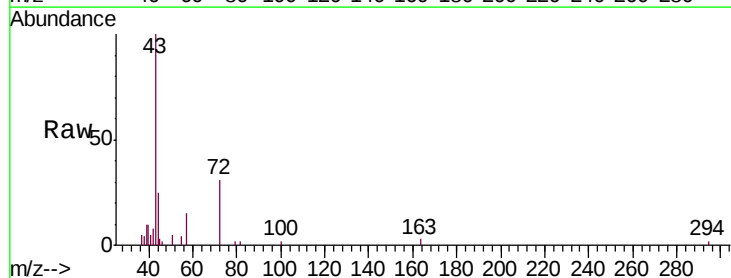


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

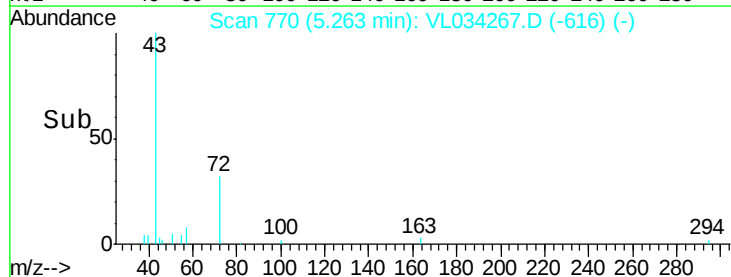
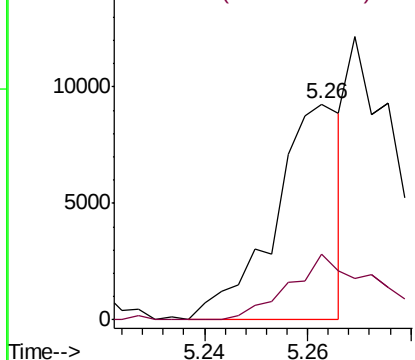


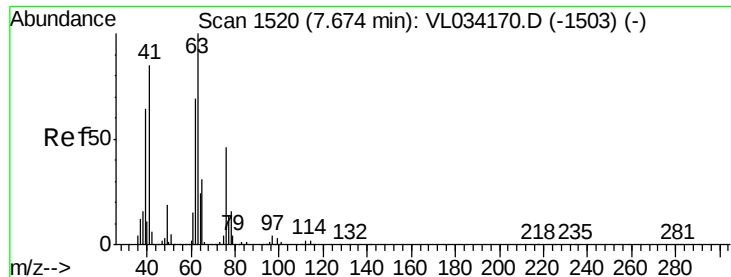
#34
 2-Butanone
 Concen: 0.043 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. -0.01 min
 Lab File: VL034267.D
 Acq: 9 Oct 2019 3:09

Tgt Ion: 43 Resp: 8349
 Ion Ratio Lower Upper
 43 100
 72 44.8 15.0 22.6#



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





#39

1,2-Dichloropropane

Concen: 6.592 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.47 min

Lab File: VL034267.D

Acq: 9 Oct 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

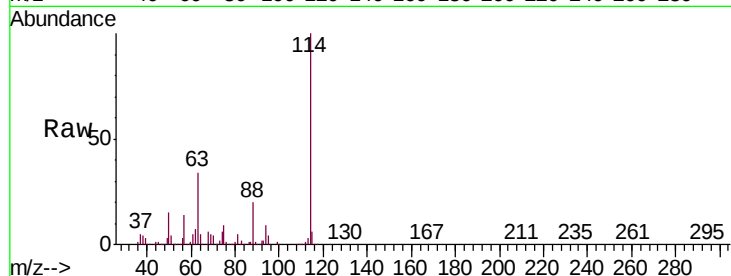
Tgt Ion: 63 Resp: 629058

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

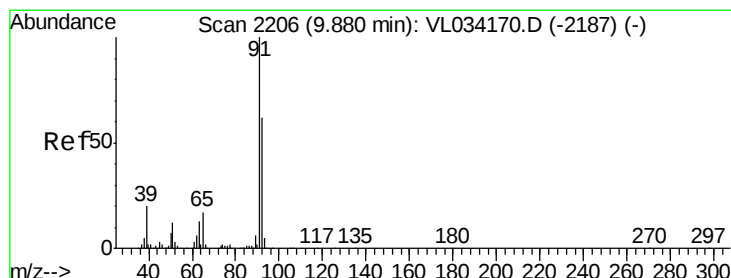
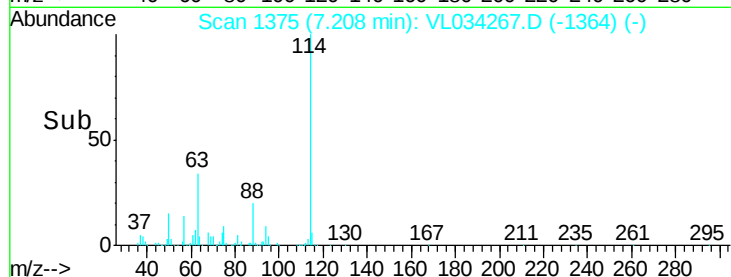
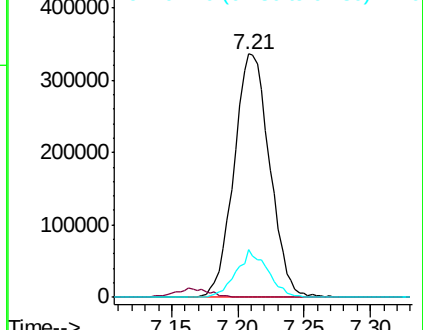
62 19.4 55.4 83.2#



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



#53

Toluene

Concen: 0.038 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. -0.03 min

Lab File: VL034267.D

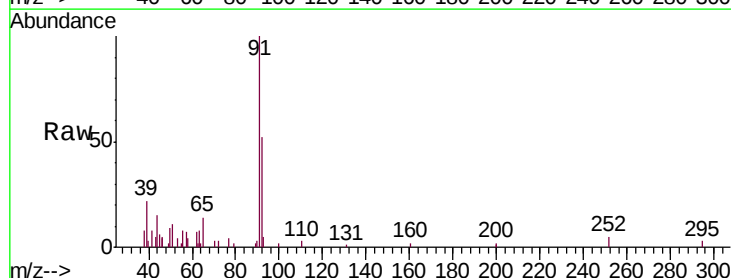
Acq: 9 Oct 2019 3:09

Tgt Ion: 91 Resp: 8834

Ion Ratio Lower Upper

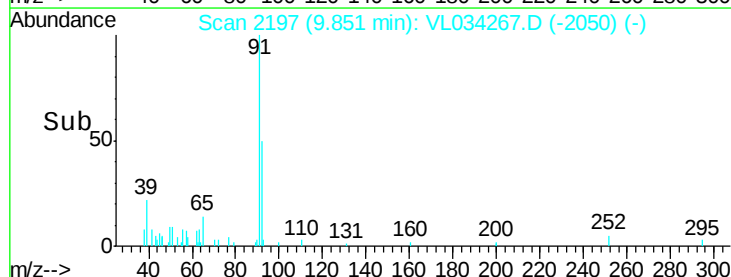
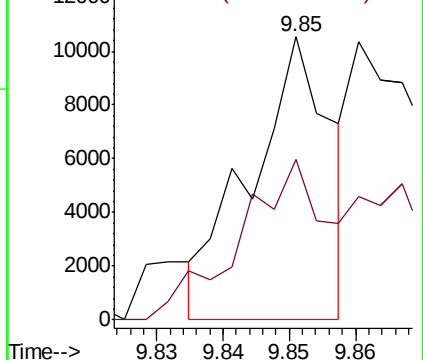
91 100

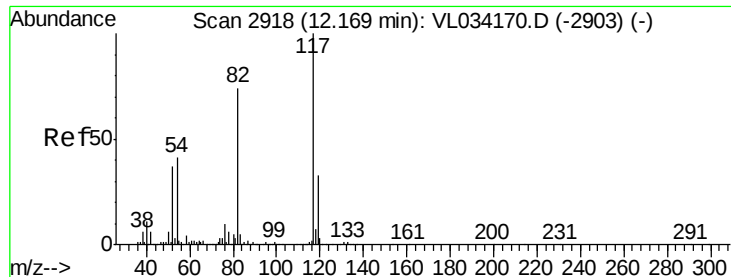
92 120.2 49.0 73.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

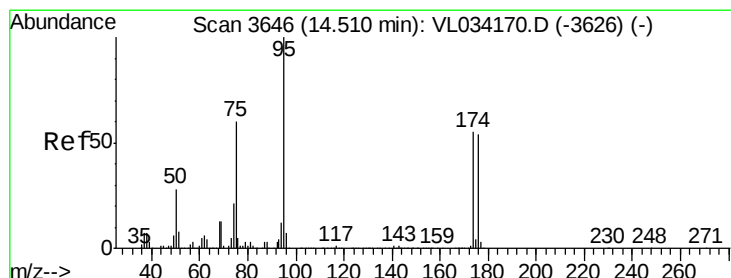
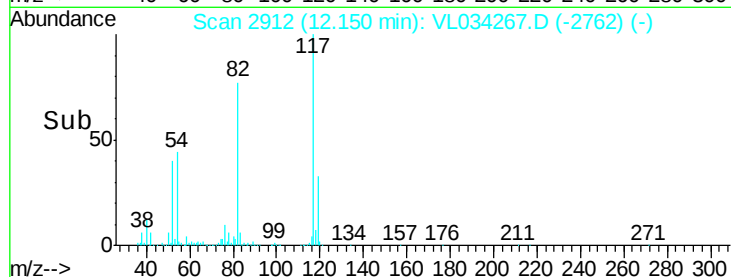
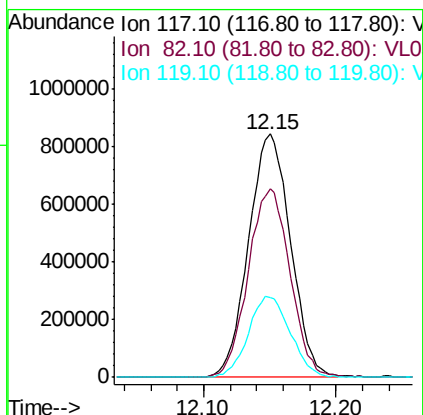
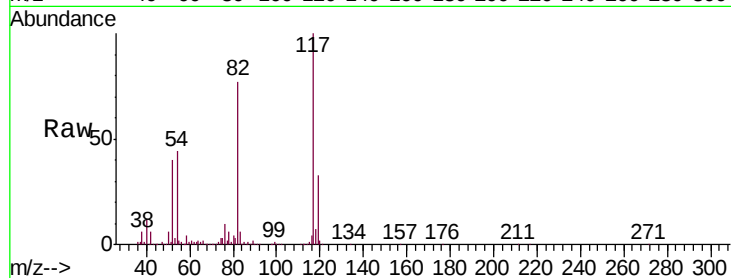




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034267.D
Acq: 9 Oct 2019 3:09

Instrument :
MSVOA_L
ClientSampled :
IA2DL

Tgt Ion:117 Resp: 1858664
Ion Ratio Lower Upper
117 100
82 77.6 58.2 87.4
119 33.3 23.7 35.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.352 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. -0.03 min
Lab File: VL034267.D
Acq: 9 Oct 2019 3:09

Tgt Ion: 95 Resp: 1671958
Ion Ratio Lower Upper
95 100
174 54.9 45.1 67.7
175 3.9 3.3 4.9

