

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
 Data File : VL032038.D
 Acq On : 2 Jun 2018 2:12
 Operator : SY/AP
 Sample : J3225-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

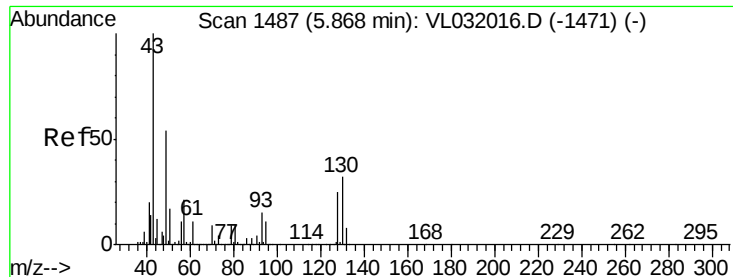
Quant Time: Jun 02 03:40:20 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1230671	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2392629	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.36	117	2291110	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.70	95	1753533	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.15	85	7193	0.05	ppbv	92
3) Chlorodifluoromethane	3.09	51	9463	0.08	ppbv #	88
4) Chloromethane	3.24	50	43764	0.75	ppbv	94
13) Ethanol	3.75	45	19752	1.34	ppbv	88
15) Acetone	3.99	43	196942	1.33	ppbv	92
16) 1,3-Butadiene	3.42	39	11638	0.21	ppbv #	14
17) tert-Butyl alcohol	4.47	59	4530	0.06	ppbv #	49
20) Methylene Chloride	4.50	84	10141	0.15	ppbv	88
23) Vinyl Acetate	5.25	43	18366	0.09	ppbv #	85
26) Hexane	5.88	57	14711	0.11	ppbv #	50
39) 1,2-Dichloropropane	7.40	63	626091	8.08	ppbv #	22
52) Tetrachloroethene	11.50	164	72997	0.87	ppbv	96
65) tert-Butylbenzene	17.23	119	73073	0.23	ppbv #	19

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

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MSVOA_L

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BFB

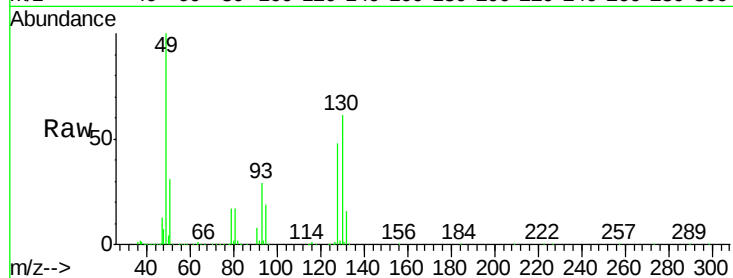
Tgt Ion: 49 Resp: 1230671

Ion Ratio Lower Upper

49 100

128 49.7 24.1 72.3

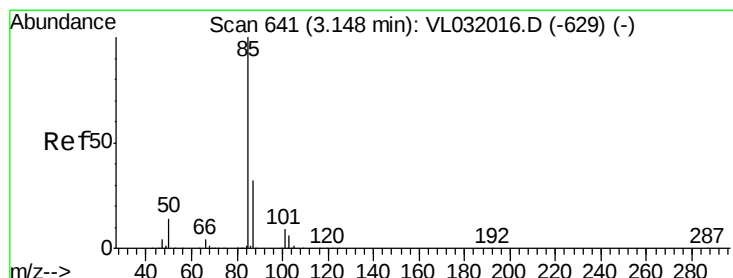
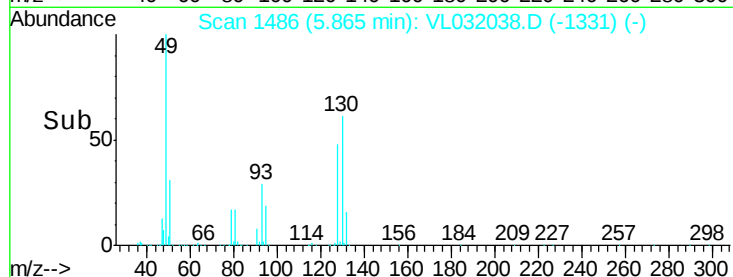
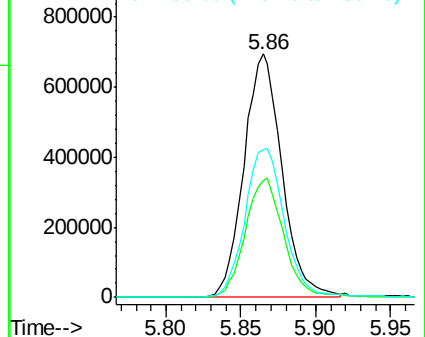
130 64.0 30.9 92.8



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: 0.05 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032038.D

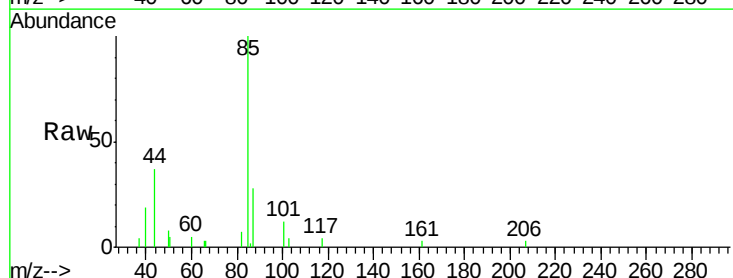
Acq: 2 Jun 2018 2:12

Tgt Ion: 85 Resp: 7193

Ion Ratio Lower Upper

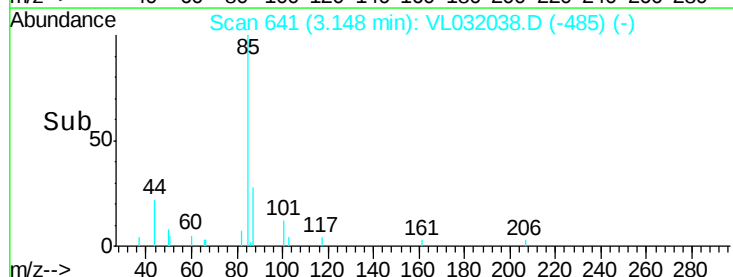
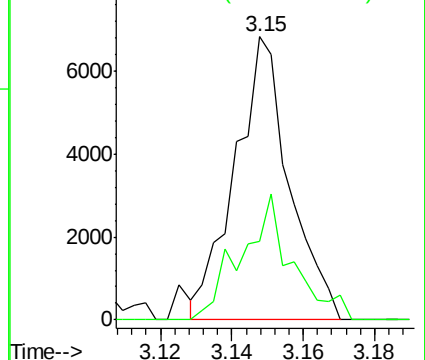
85 100

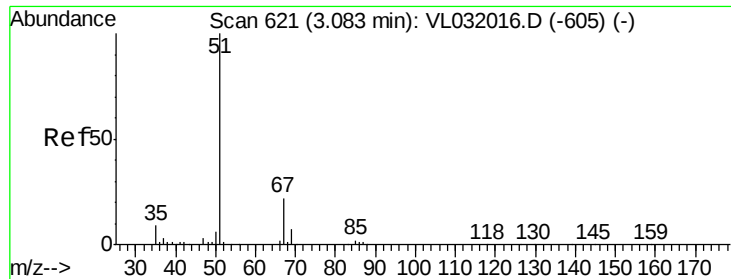
87 27.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.08 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032038.D

Acq: 2 Jun 2018 2:12

Instrument :

MSVOA_L

ClientSampleId :

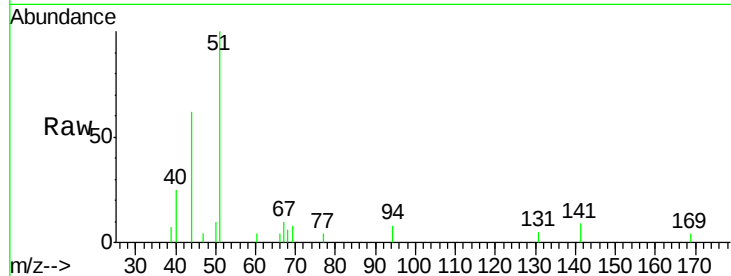
BFB

Tgt Ion: 51 Resp: 9463

Ion Ratio Lower Upper

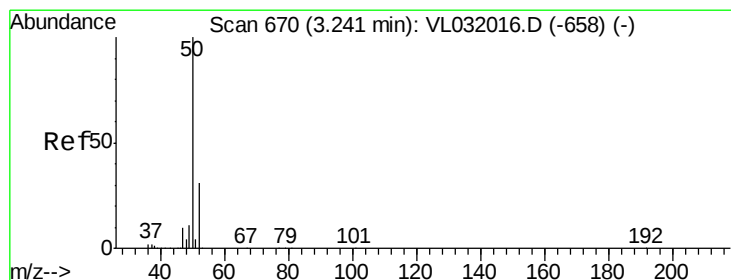
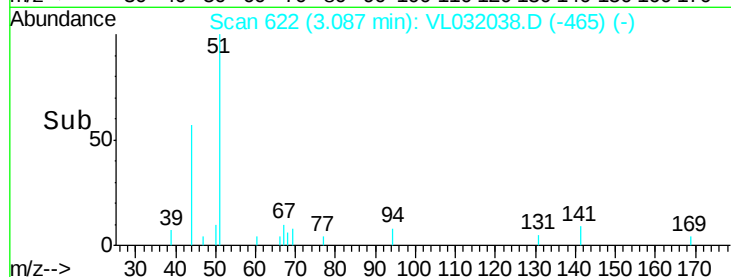
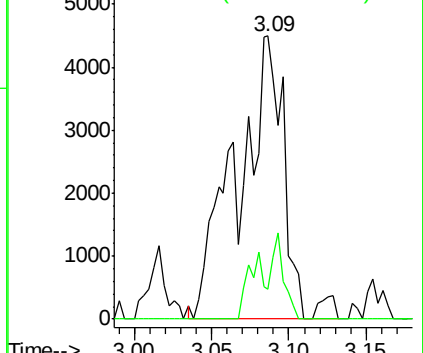
51 100

67 15.6 17.2 25.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.75 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032038.D

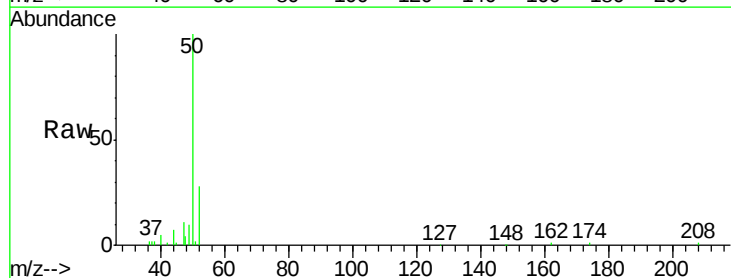
Acq: 2 Jun 2018 2:12

Tgt Ion: 50 Resp: 43764

Ion Ratio Lower Upper

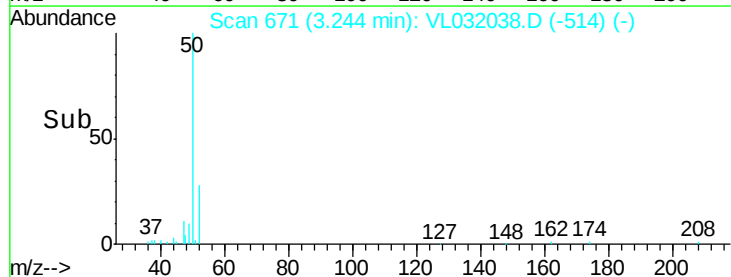
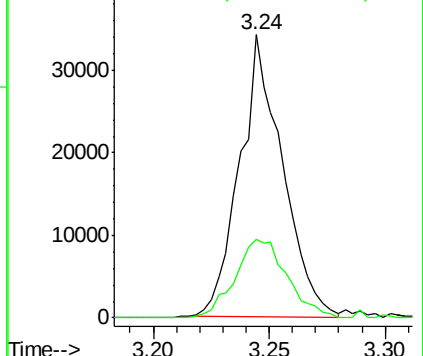
50 100

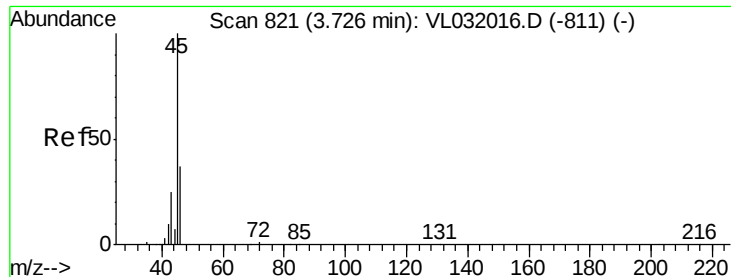
52 27.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#13

Ethanol

Concen: 1.34 ppbv

RT: 3.75 min Scan# 828

Delta R.T. 0.02 min

Lab File: VL032038.D

Acq: 2 Jun 2018 2:12

Instrument :

MSVOA_L

ClientSampleId :

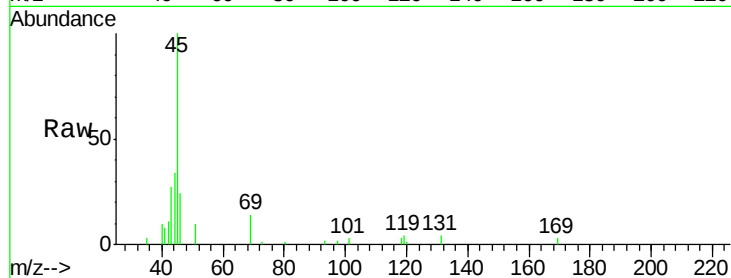
BFB

Tgt Ion: 45 Resp: 19752

Ion Ratio Lower Upper

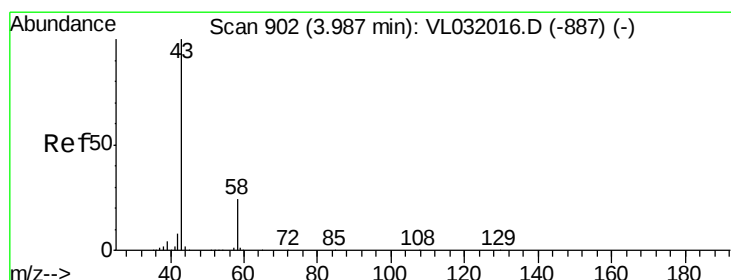
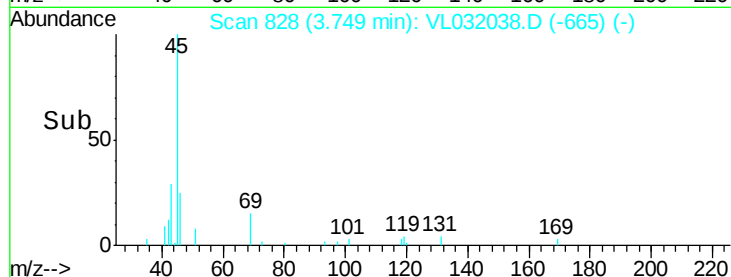
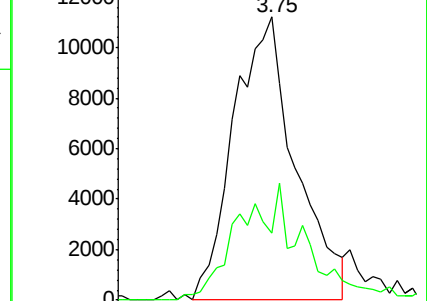
45 100

46 44.2 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 1.33 ppbv

RT: 3.99 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL032038.D

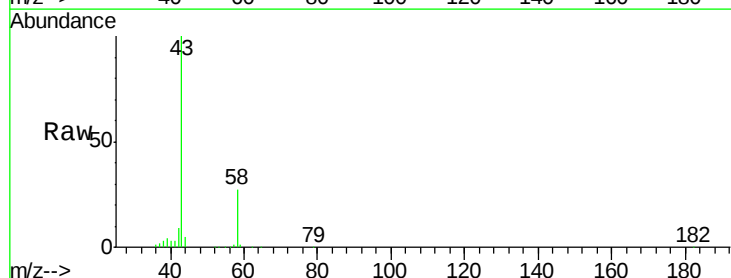
Acq: 2 Jun 2018 2:12

Tgt Ion: 43 Resp: 196942

Ion Ratio Lower Upper

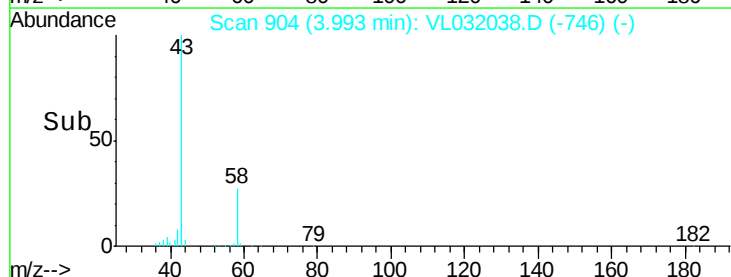
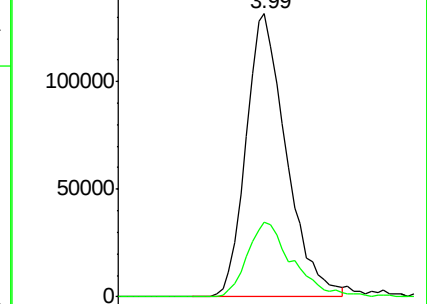
43 100

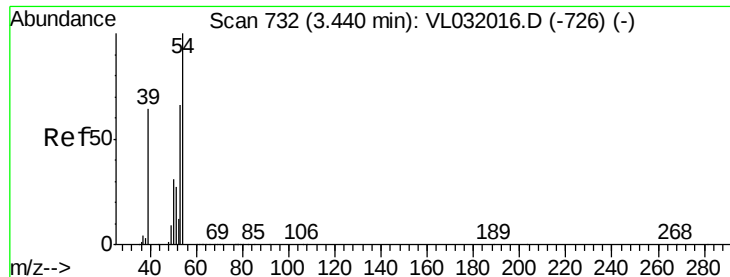
58 29.8 20.7 31.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

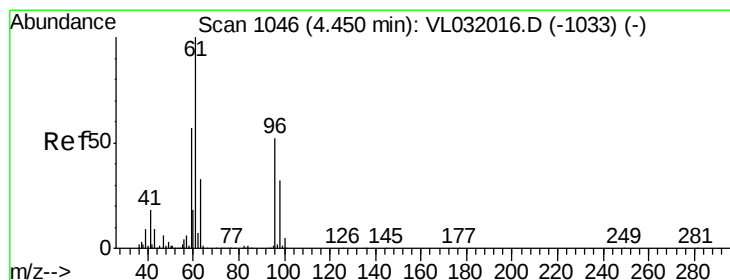
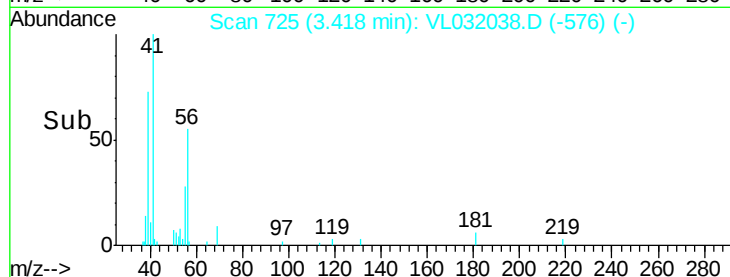
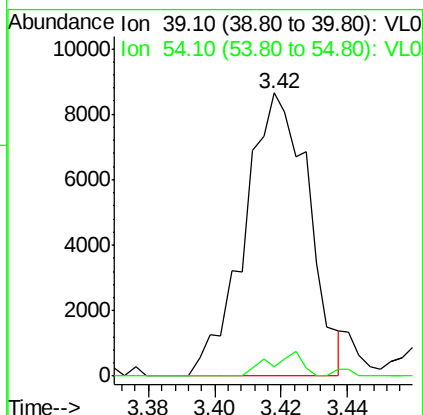
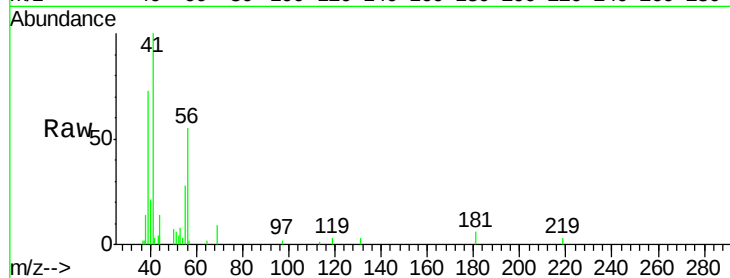




#16
 1,3-Butadiene
 Concen: 0.21 ppbv
 RT: 3.42 min Scan# 725
 Delta R.T. -0.02 min
 Lab File: VL032038.D
 Acq: 2 Jun 2018 2:12

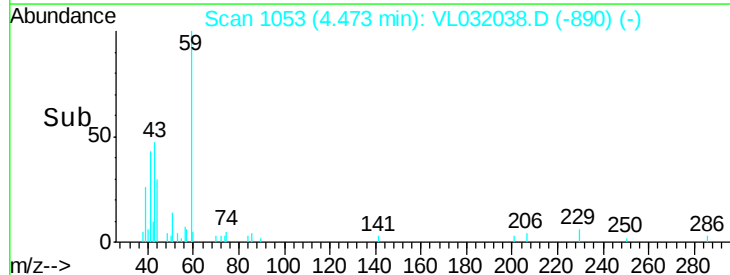
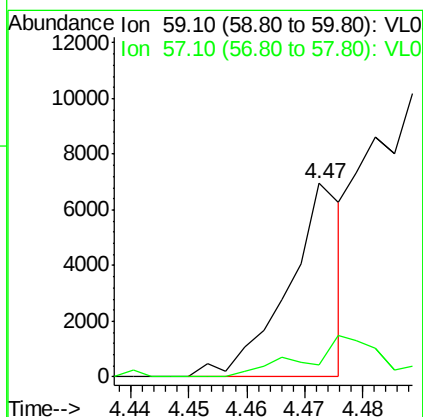
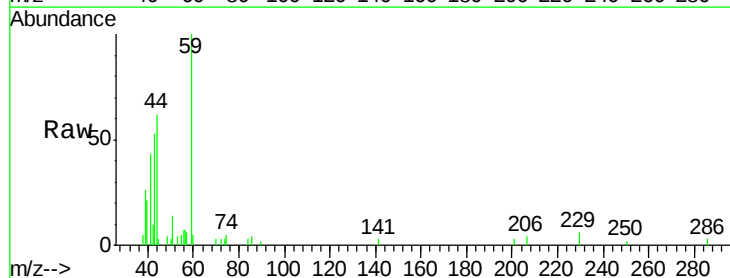
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

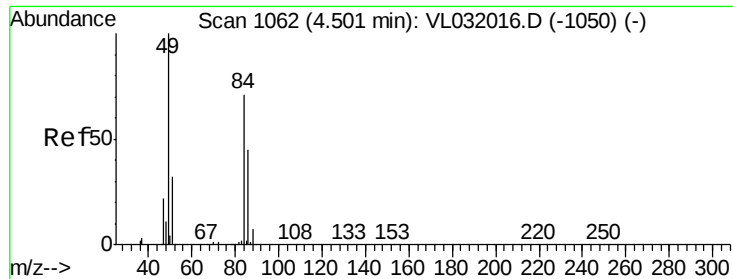
Tgt Ion: 39 Resp: 11638
 Ion Ratio Lower Upper
 39 100
 54 5.0 65.7 98.5#



#17
 tert-Butyl alcohol
 Concen: 0.06 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. 0.02 min
 Lab File: VL032038.D
 Acq: 2 Jun 2018 2:12

Tgt Ion: 59 Resp: 4530
 Ion Ratio Lower Upper
 59 100
 57 29.6 8.3 12.5#

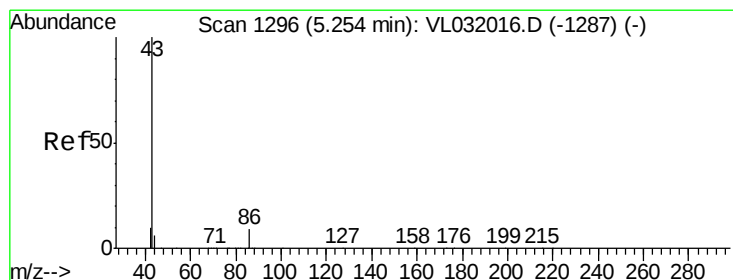
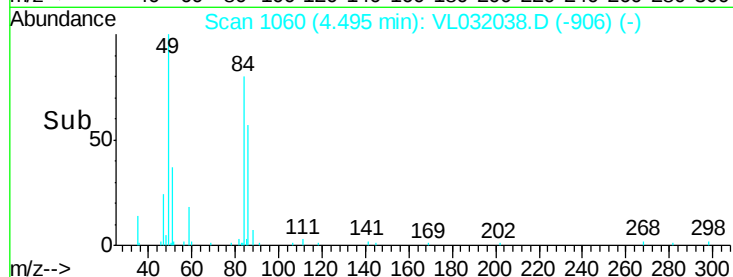
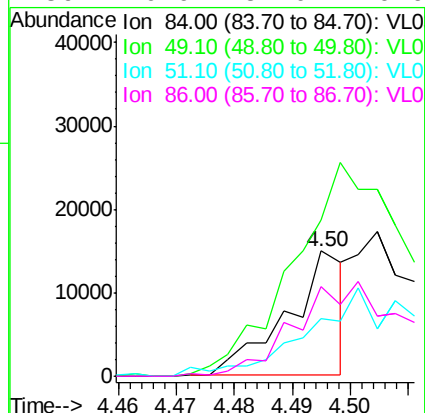
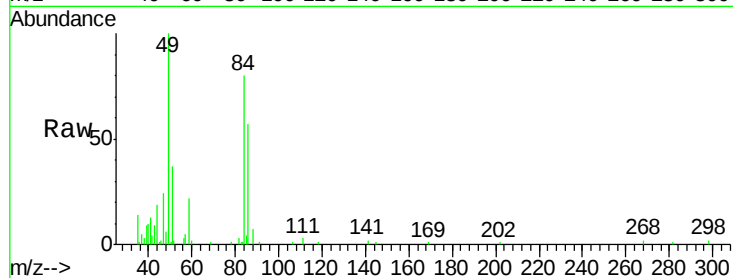




#20
Methylene Chloride
Concen: 0.15 ppbv
RT: 4.50 min Scan# 1060
Delta R.T. -0.01 min
Lab File: VL032038.D
Acq: 2 Jun 2018 2:12

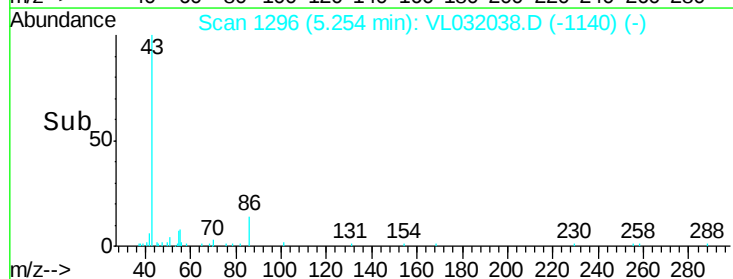
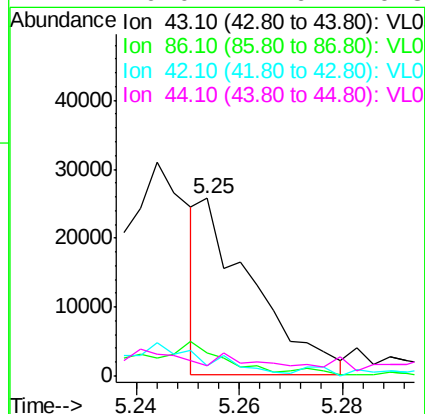
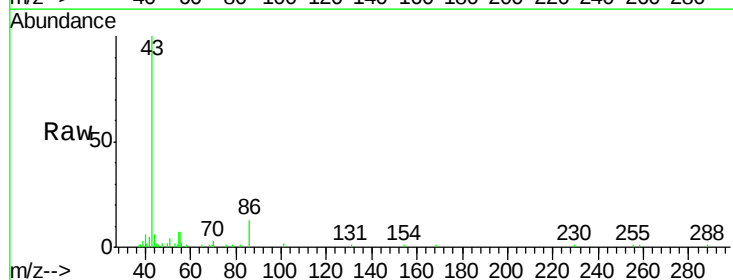
Instrument :
MSVOA_L
ClientSampleId :
BFB

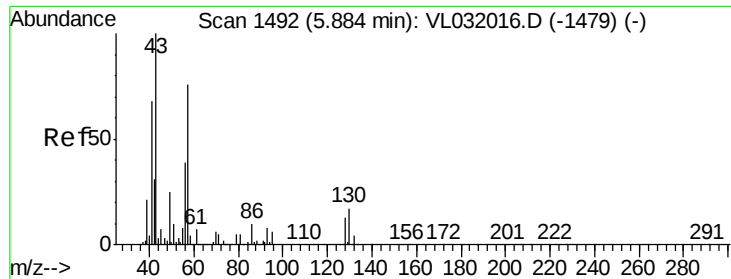
Tgt Ion:	84	Resp:	10141
Ion	Ratio	Lower	Upper
84	100		
49	124.6	113.0	169.4
51	39.5	36.4	54.6
86	70.9	51.0	76.6



#23
Vinyl Acetate
Concen: 0.09 ppbv
RT: 5.25 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VL032038.D
Acq: 2 Jun 2018 2:12

Tgt Ion:	43	Resp:	18366
Ion	Ratio	Lower	Upper
43	100		
86	13.4	6.2	9.4#
42	5.9	8.7	13.1#
44	0.0	4.6	6.8#

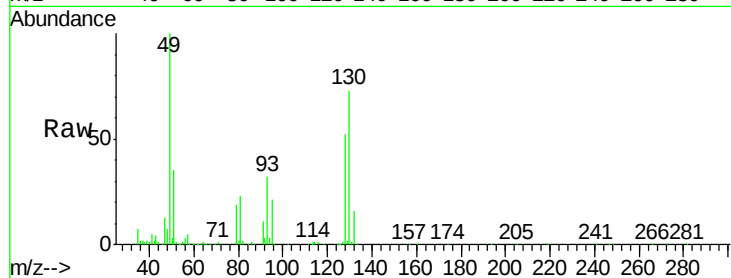




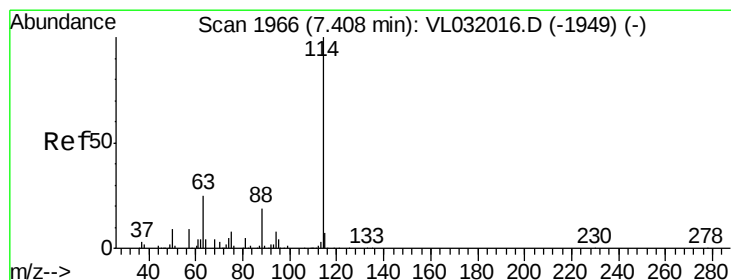
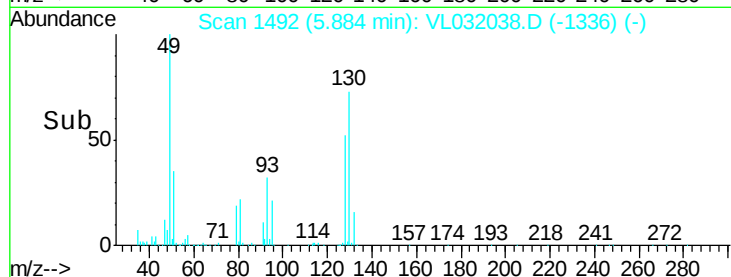
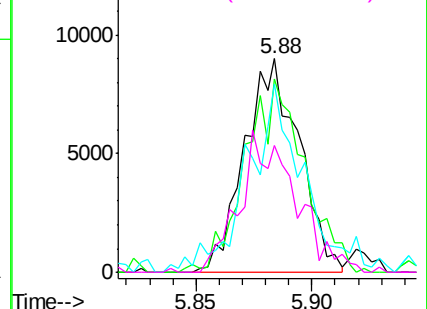
#26
Hexane
Concen: 0.11 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032038.D
Acq: 2 Jun 2018 2:12

Instrument :
MSVOA_L
ClientSampleId :
BFB

Tgt Ion: 57 Resp: 14711
Ion Ratio Lower Upper
57 100
41 97.7 71.4 107.2
43 94.8 168.6 252.8#
56 68.0 42.4 63.6#

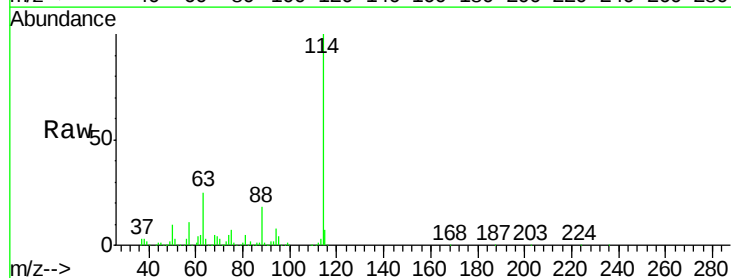


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

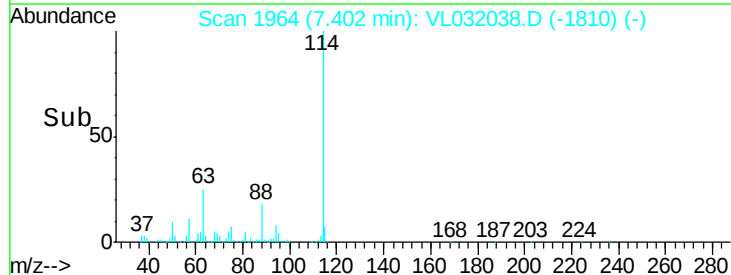
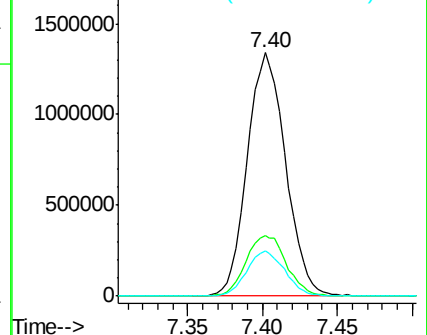


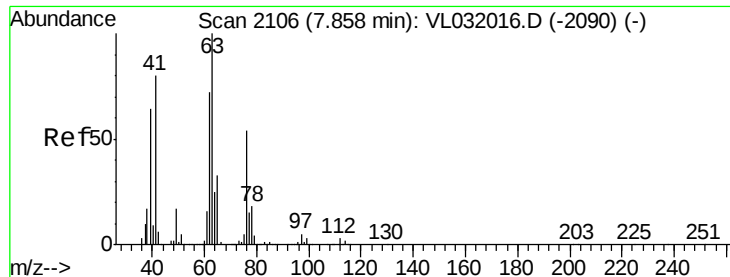
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.40 min Scan# 1964
Delta R.T. -0.01 min
Lab File: VL032038.D
Acq: 2 Jun 2018 2:12

Tgt Ion: 114 Resp: 2392629
Ion Ratio Lower Upper
114 100
63 26.2 21.1 31.7
88 18.6 14.8 22.2



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





#39

1,2-Dichloropropane

Concen: 8.08 ppbv

RT: 7.40 min Scan# 1964

Delta R.T. -0.46 min

Lab File: VL032038.D

Acq: 2 Jun 2018 2:12

Instrument :

MSVOA_L

ClientSampleId :

BFB

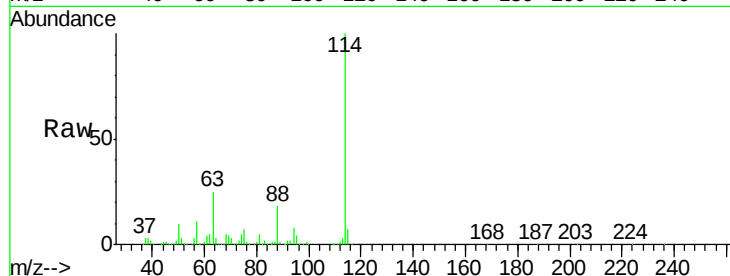
Tgt Ion: 63 Resp: 626091

Ion Ratio Lower Upper

63 100

41 0.0 64.0 96.0#

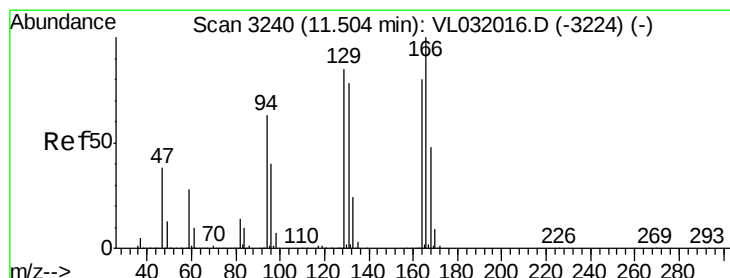
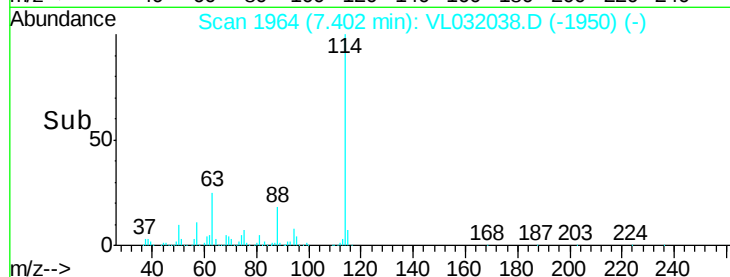
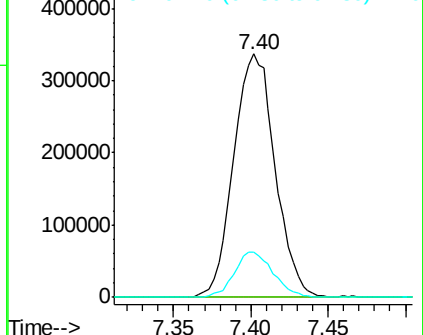
62 18.8 57.6 86.4#



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: 0.87 ppbv

RT: 11.50 min Scan# 3238

Delta R.T. -0.01 min

Lab File: VL032038.D

Acq: 2 Jun 2018 2:12

Tgt Ion: 164 Resp: 72997

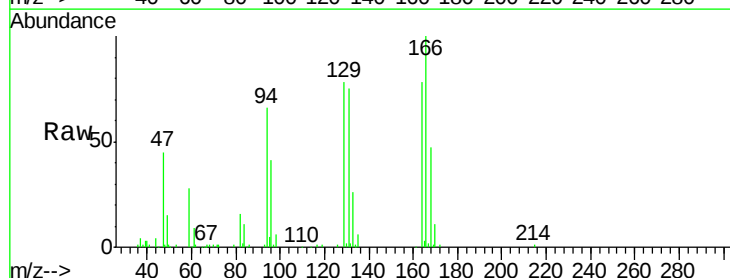
Ion Ratio Lower Upper

164 100

166 127.3 100.2 150.2

129 99.7 85.4 128.0

131 95.4 78.0 117.0

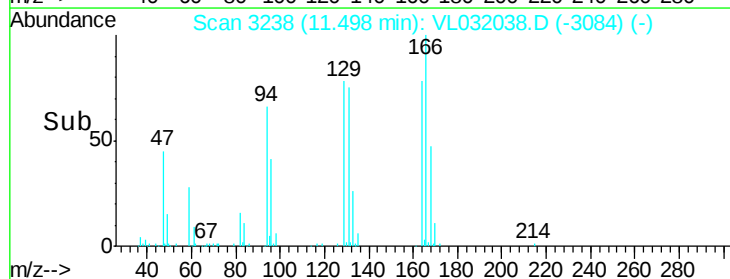
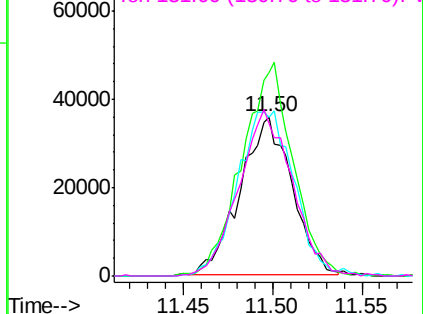


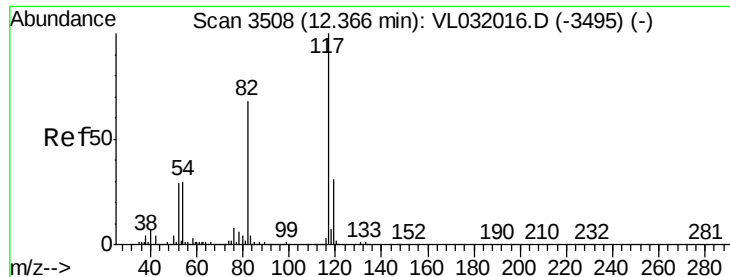
Abundance Ion 163.90 (163.60 to 164.60): V

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

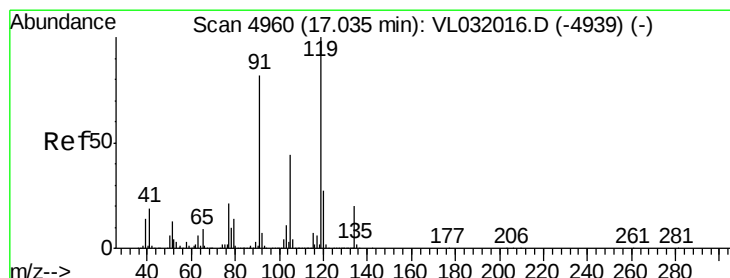
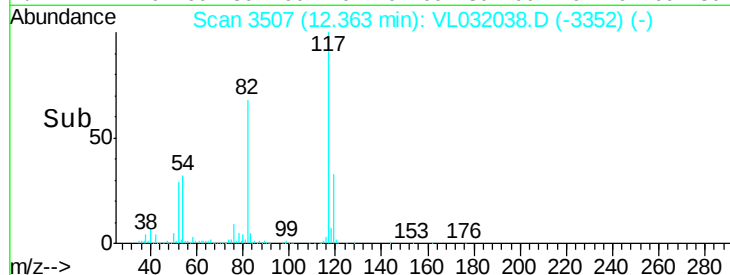
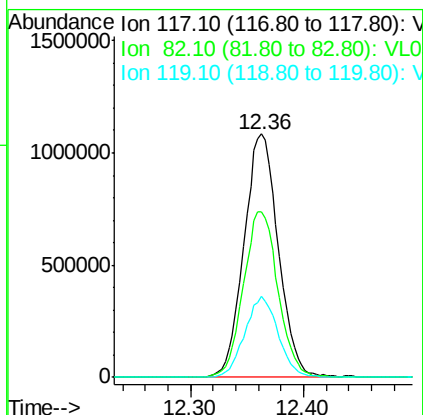
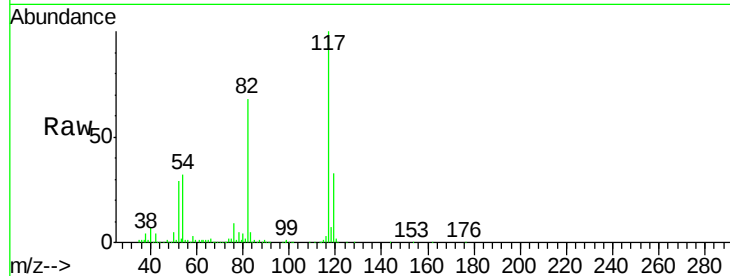




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.00 min
Lab File: VL032038.D
Acq: 2 Jun 2018 2:12

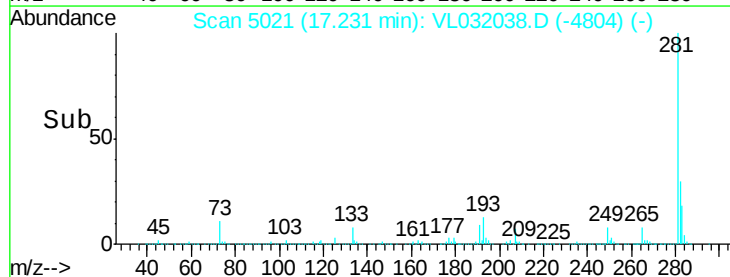
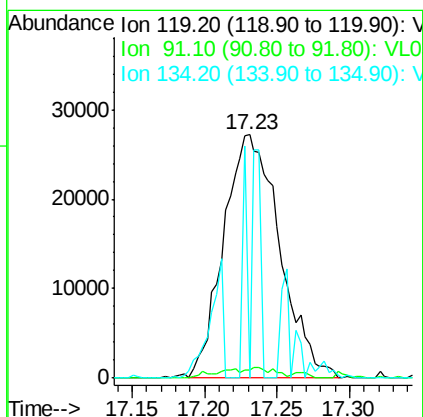
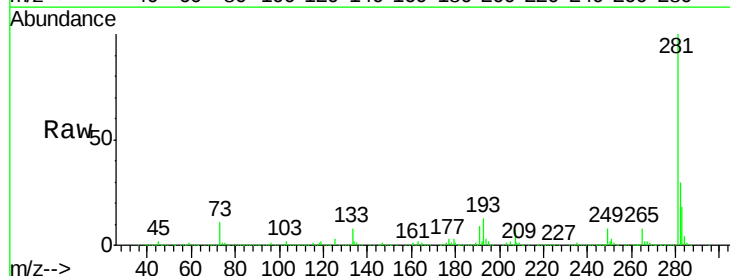
Instrument :
MSVOA_L
ClientSampled :
BFB

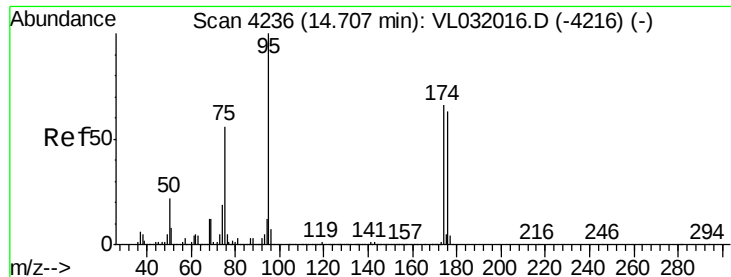
Tgt Ion:117 Resp: 2291110
Ion Ratio Lower Upper
117 100
82 69.2 52.7 79.1
119 32.2 25.5 38.3



#65
tert-Butylbenzene
Concen: 0.23 ppbv
RT: 17.23 min Scan# 5021
Delta R.T. 0.20 min
Lab File: VL032038.D
Acq: 2 Jun 2018 2:12

Tgt Ion:119 Resp: 73073
Ion Ratio Lower Upper
119 100
91 4.6 68.2 102.4#
134 42.3 15.6 23.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.91 ppbv
 RT: 14.70 min Scan# 4233
 Delta R.T. -0.01 min
 Lab File: VL032038.D
 Acq: 2 Jun 2018 2:12

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Tgt Ion: 95 Resp: 1753533
 Ion Ratio Lower Upper
 95 100
 174 67.8 53.2 79.8
 175 4.8 3.7 5.5

