

Data File : VL033549.D
Acq On : 5 Apr 2019 1:31
Operator : SY/AP
Sample : K2211-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Quant Time: Apr 05 03:31:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1160302	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2936475	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2994762	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 2387028 10.17 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.70%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.07	85	10687	0.063	ppbv #	83
3) Chlorodifluoromethane	3.01	51	6855	0.051	ppbv	92
4) Chloromethane	3.17	50	3199	0.045	ppbv #	50
8) Dichlorotetrafluoroethane	3.07	85	10687	0.059	ppbv #	18
9) Propene	3.24	41	16758	0.299	ppbv	84
13) Ethanol	3.65	45	2539624	174.946	ppbv	65
15) Acetone	3.90	43	107940	0.774	ppbv	92
16) 1,3-Butadiene	3.34	39	1923	0.035	ppbv #	17
19) Isopropyl Alcohol	3.65	45	2539624	28.780	ppbv #	95
20) Methylene Chloride	4.41	84	37126	0.627	ppbv	82
25) Ethyl Acetate	5.77	43	18485	0.071	ppbv #	87
26) Hexane	5.77	57	19774	0.172	ppbv #	43
30) Cyclohexane	7.27	84	4723	0.052	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	774768	8.027	ppbv #	23
53) Toluene	9.94	91	112590	0.393	ppbv	100

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

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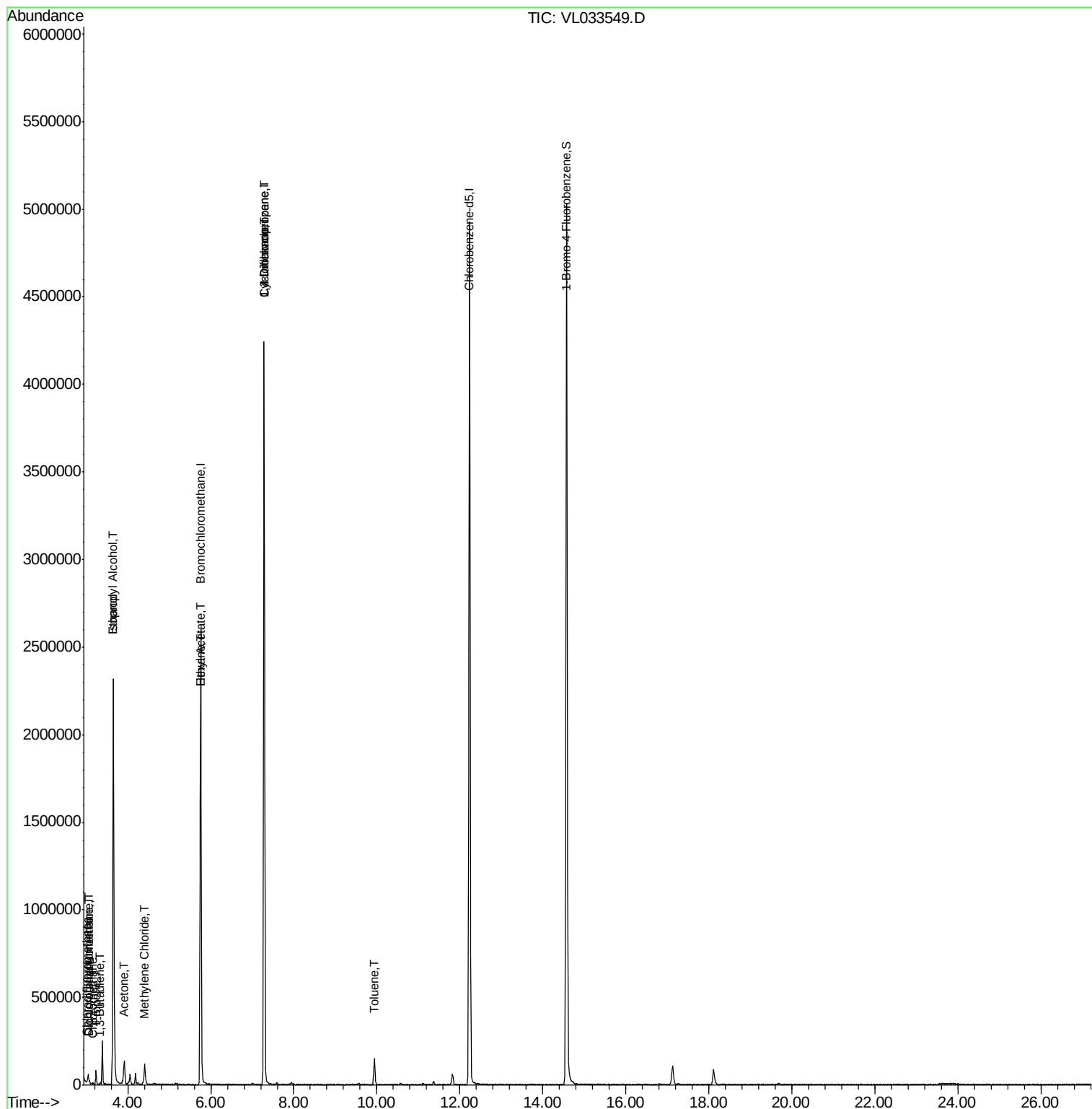
Quant Time: Apr 05 03:31:16 2019

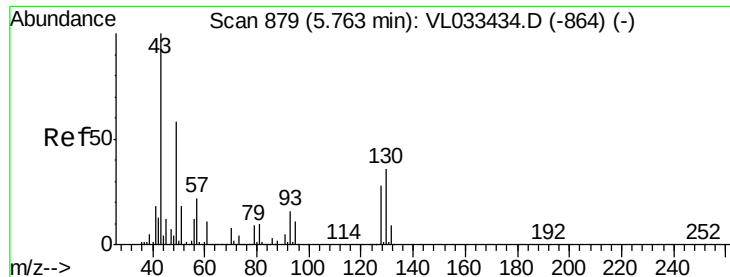
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019

QLast Update : Tue Mar 26 16:00:50 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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BFB

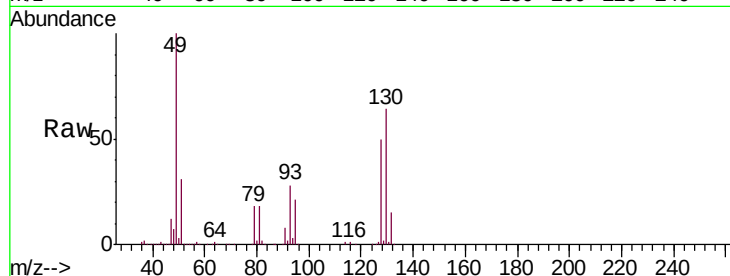
Tgt Ion: 49 Resp: 1160302

Ion Ratio Lower Upper

49 100

128 49.5 24.0 72.0

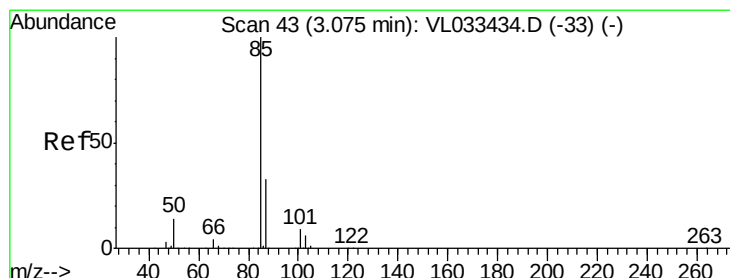
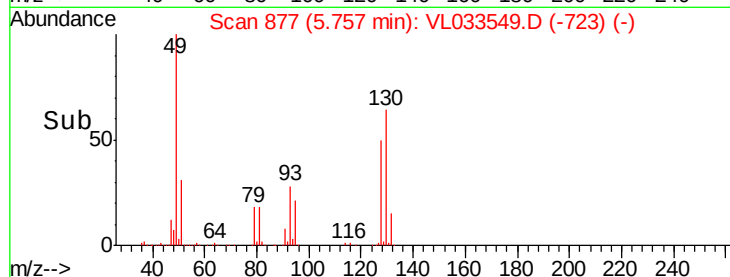
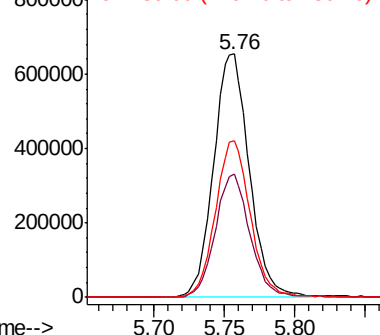
130 63.5 31.2 93.6



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



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033549.D

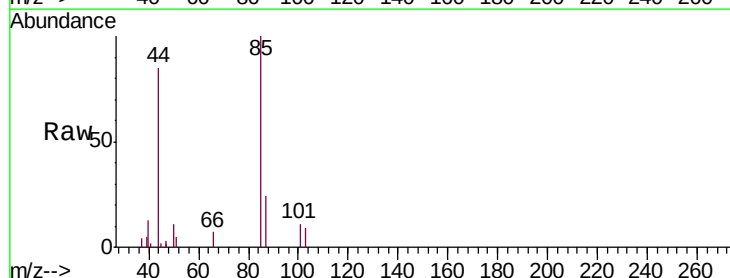
Acq: 5 Apr 2019 1:31

Tgt Ion: 85 Resp: 10687

Ion Ratio Lower Upper

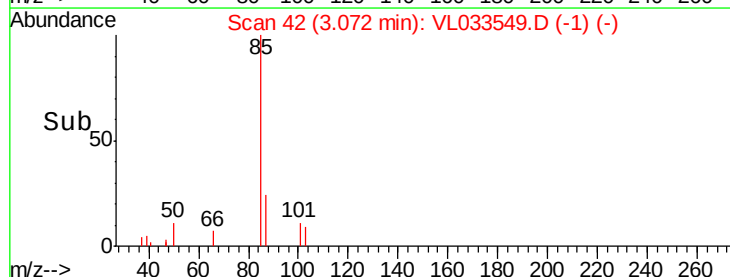
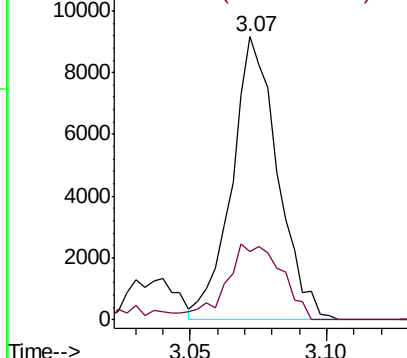
85 100

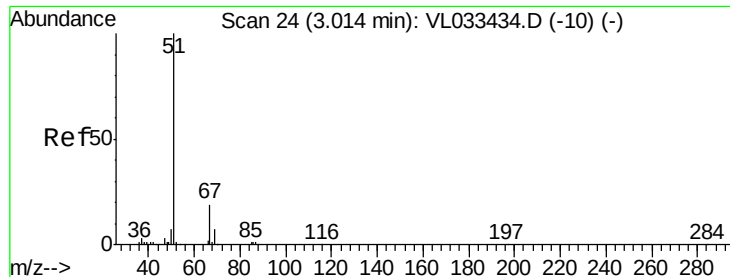
87 24.0 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

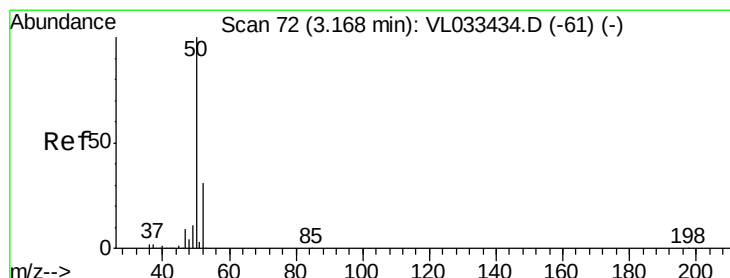
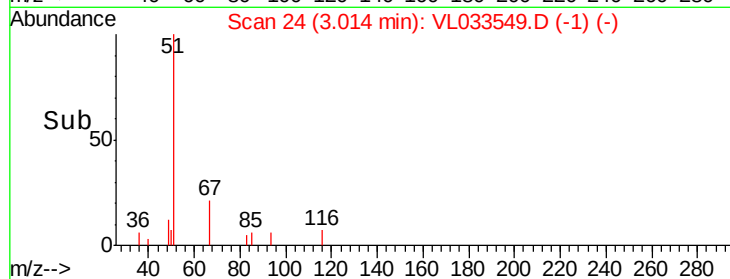
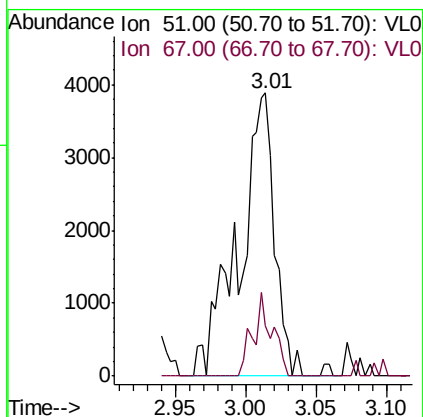
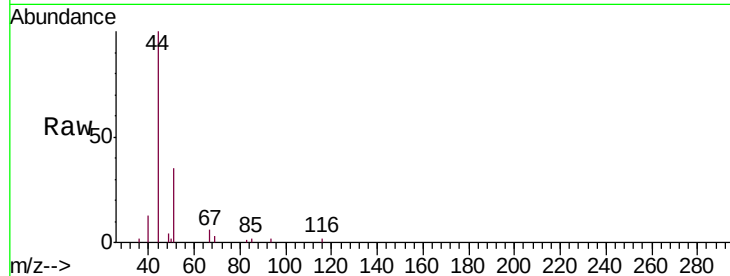




#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033549.D
Acq: 5 Apr 2019 1:31

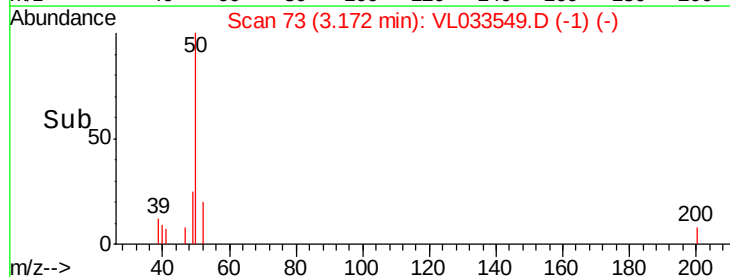
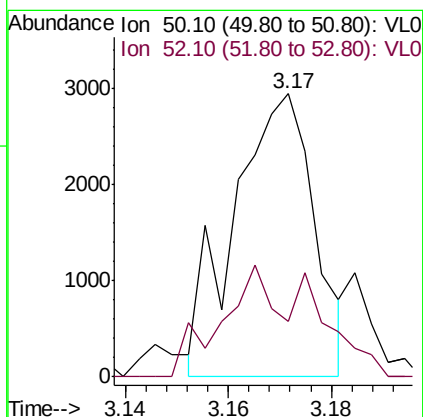
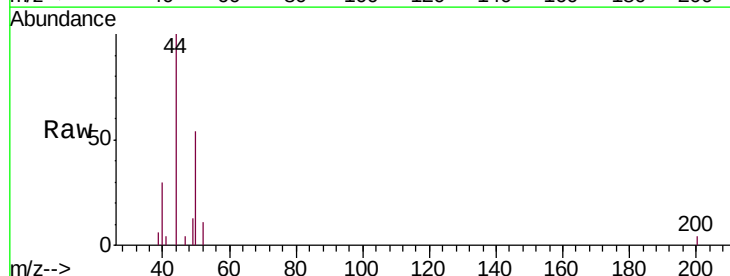
Instrument :
MSVOA_L
ClientSampleId :
BFB

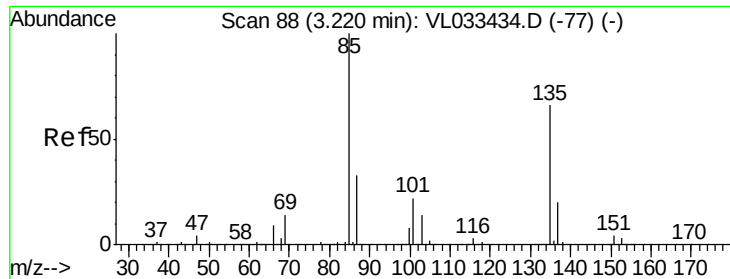
Tgt Ion: 51 Resp: 6855
Ion Ratio Lower Upper
51 100
67 15.8 15.7 23.5



#4
Chloromethane
Concen: 0.045 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033549.D
Acq: 5 Apr 2019 1:31

Tgt Ion: 50 Resp: 3199
Ion Ratio Lower Upper
50 100
52 3.9 25.0 37.6#





#8

Dichlorotetrafluoroethane

Concen: 0.059 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.15 min

Lab File: VL033549.D

Acq: 5 Apr 2019 1:31

Instrument :

MSVOA_L

ClientSampleId :

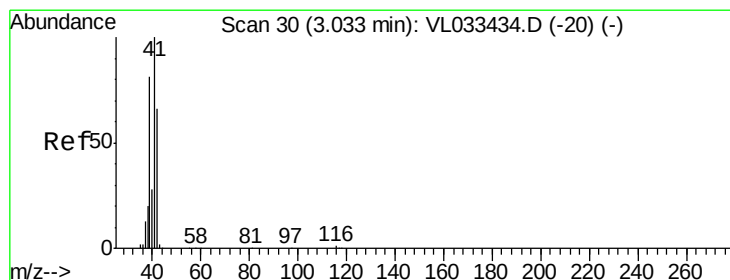
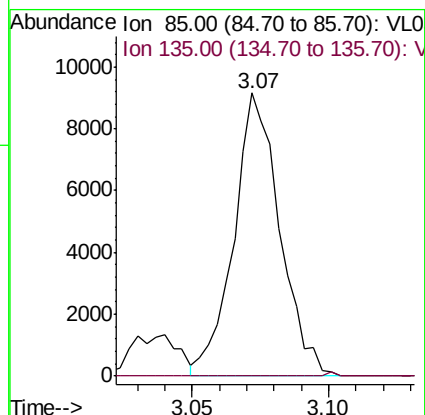
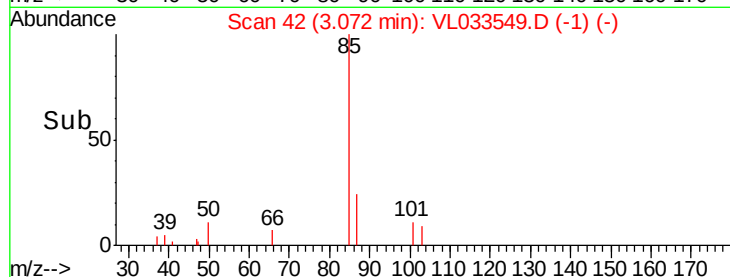
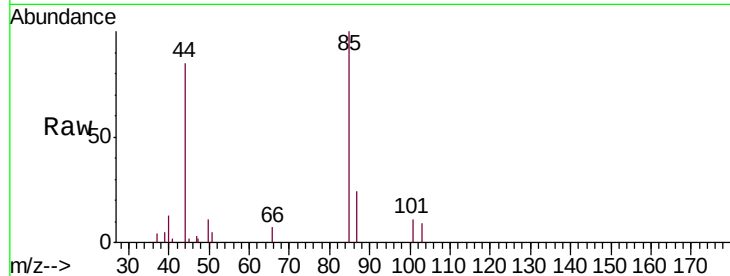
BFB

Tgt Ion: 85 Resp: 10687

Ion Ratio Lower Upper

85 100

135 1.9 54.0 81.0#



#9

Propene

Concen: 0.299 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033549.D

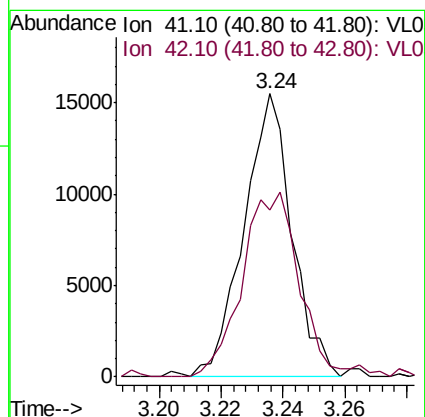
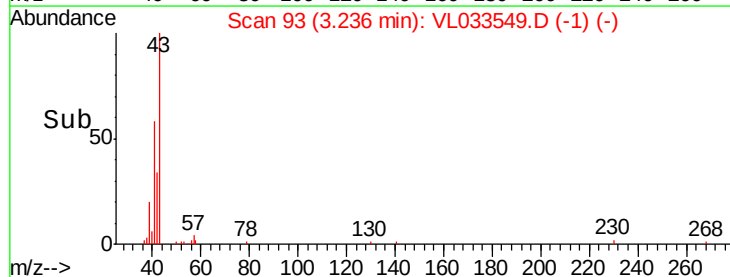
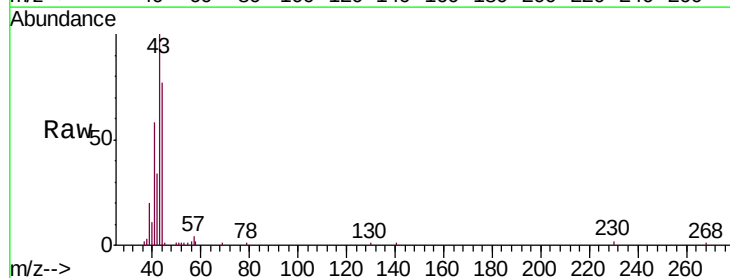
Acq: 5 Apr 2019 1:31

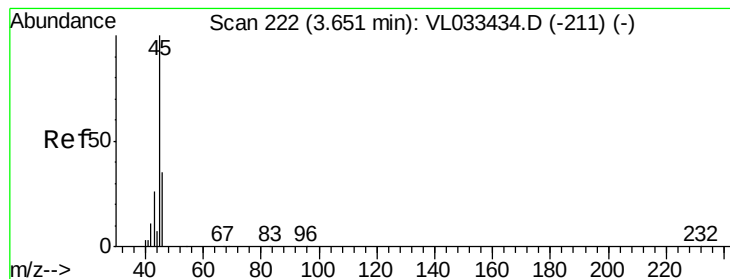
Tgt Ion: 41 Resp: 16758

Ion Ratio Lower Upper

41 100

42 80.2 53.9 80.9





#13

Ethanol

Concen: 174.946 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033549.D

Acq: 5 Apr 2019 1:31

Instrument :

MSVOA_L

ClientSampleId :

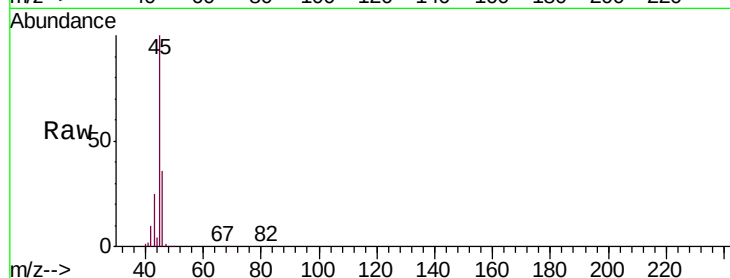
BFB

Tgt Ion: 45 Resp: 2539624

Ion Ratio Lower Upper

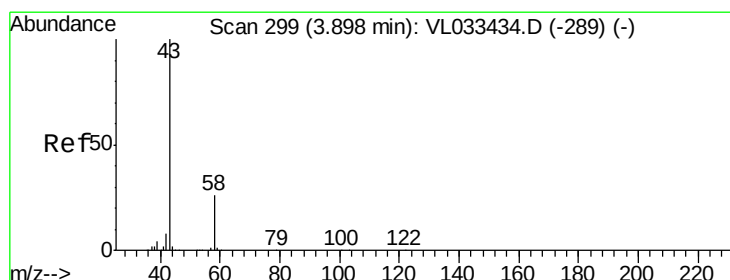
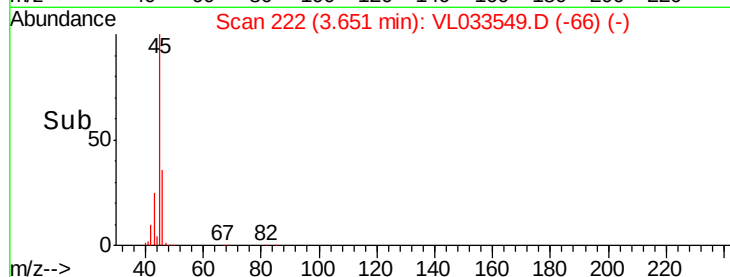
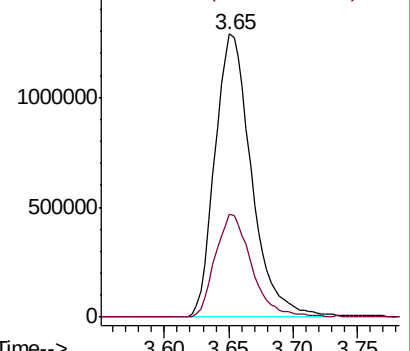
45 100

46 36.5 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.774 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033549.D

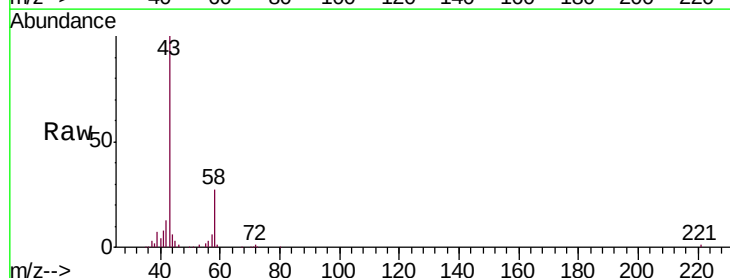
Acq: 5 Apr 2019 1:31

Tgt Ion: 43 Resp: 107940

Ion Ratio Lower Upper

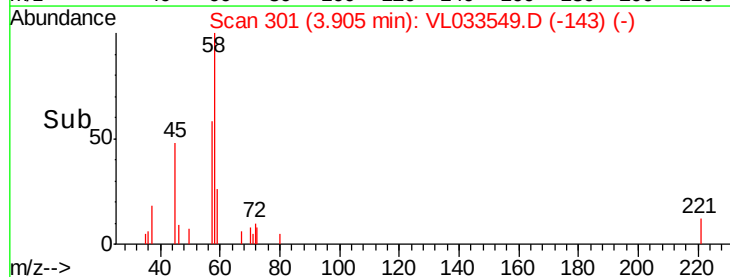
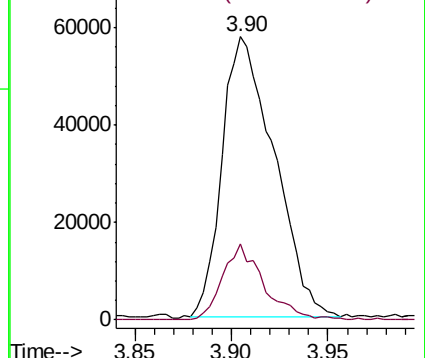
43 100

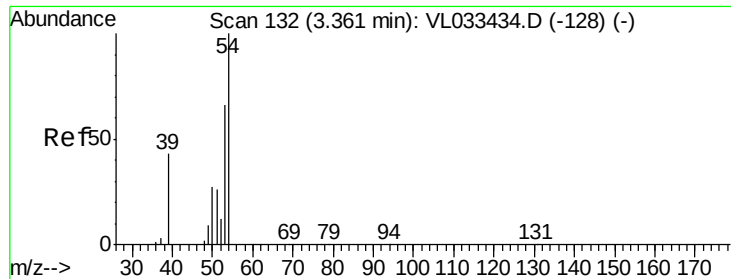
58 21.5 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.035 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.02 min

Lab File: VL033549.D

Acq: 5 Apr 2019 1:31

Instrument :

MSVOA_L

ClientSampleId :

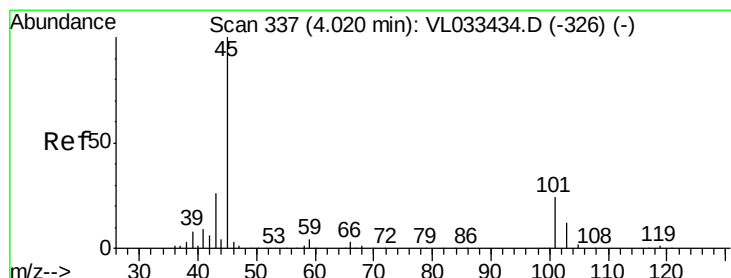
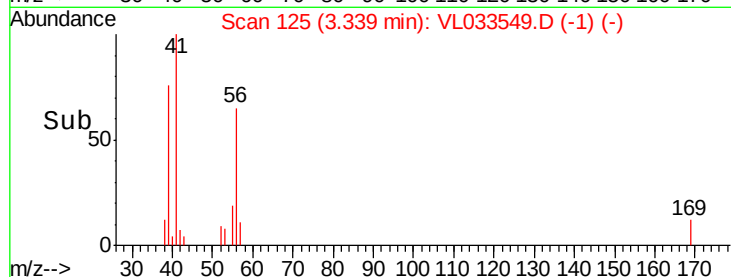
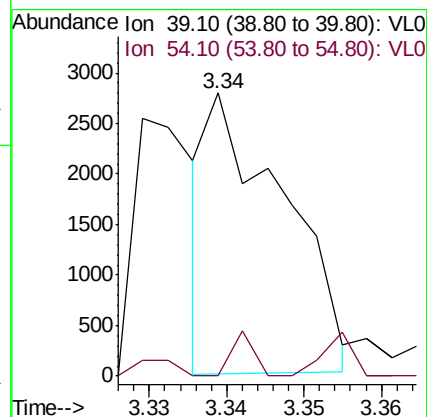
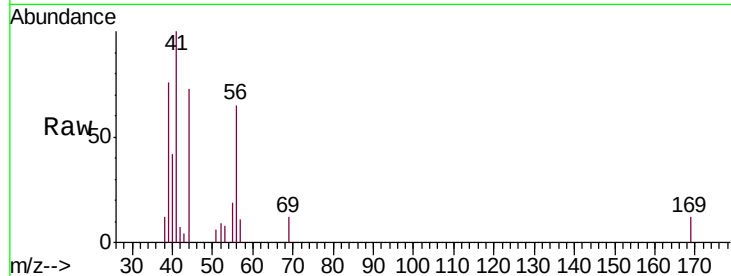
BFB

Tgt Ion: 39 Resp: 1923

Ion Ratio Lower Upper

39 100

54 10.3 69.4 104.2#



#19

Isopropyl Alcohol

Concen: 28.780 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.37 min

Lab File: VL033549.D

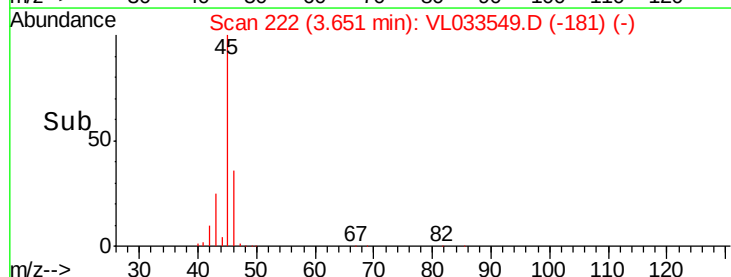
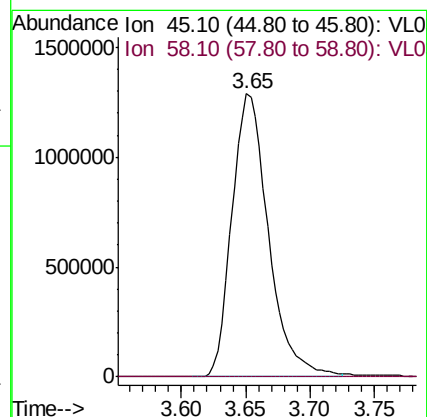
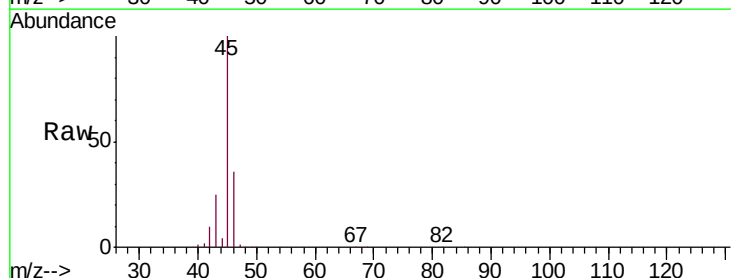
Acq: 5 Apr 2019 1:31

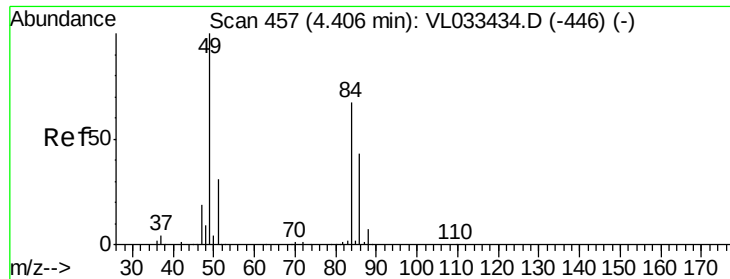
Tgt Ion: 45 Resp: 2539624

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

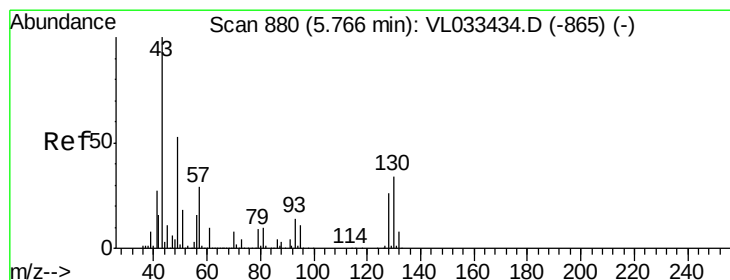
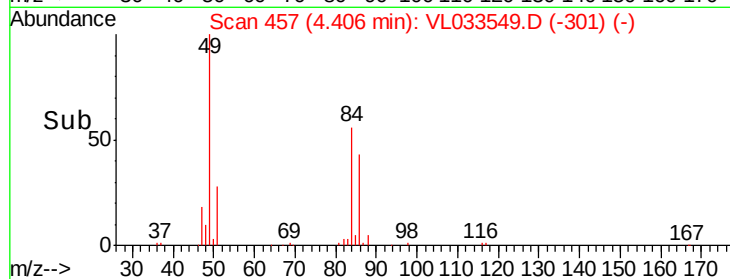
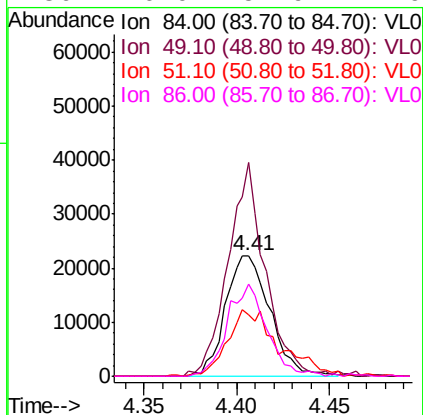
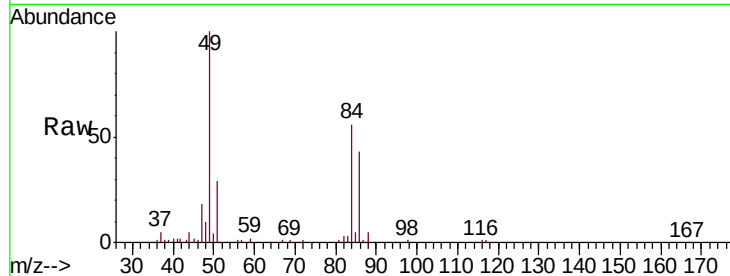




#20
Methylene Chloride
Concen: 0.627 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033549.D
Acq: 5 Apr 2019 1:31

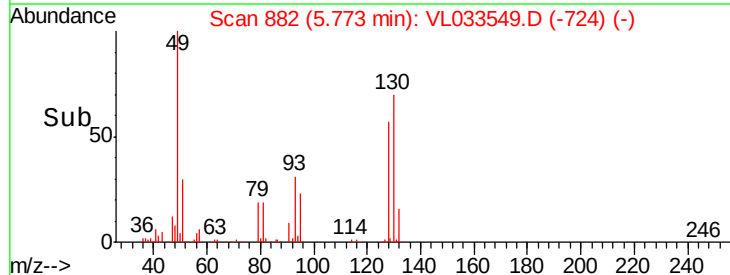
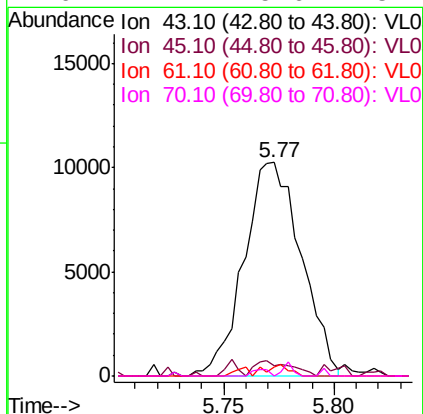
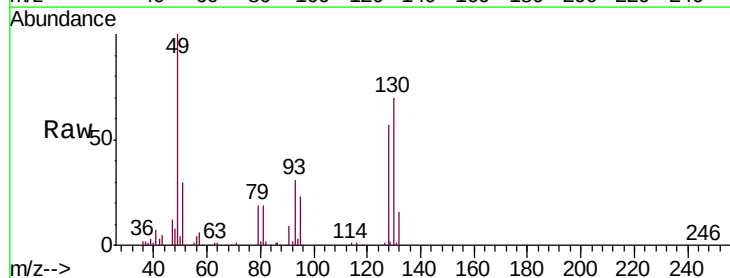
Instrument :
MSVOA_L
ClientSampleId :
BFB

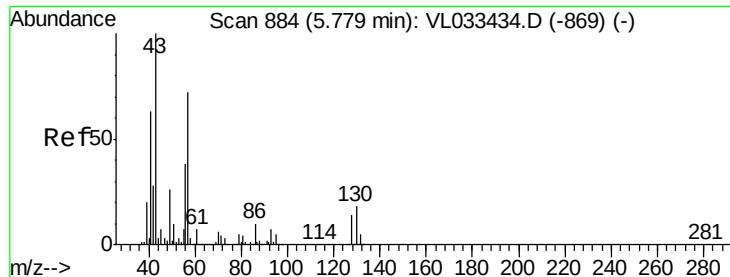
Tgt Ion: 84 Resp: 37126
Ion Ratio Lower Upper
84 100
49 179.9 120.0 180.0
51 49.8 36.7 55.1
86 76.0 51.9 77.9



#25
Ethyl Acetate
Concen: 0.071 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033549.D
Acq: 5 Apr 2019 1:31

Tgt Ion: 43 Resp: 18485
Ion Ratio Lower Upper
43 100
45 6.0 7.8 11.6#
61 3.1 7.3 10.9#
70 2.4 5.6 8.4#

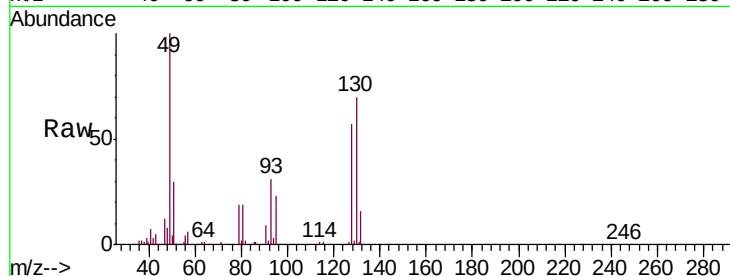




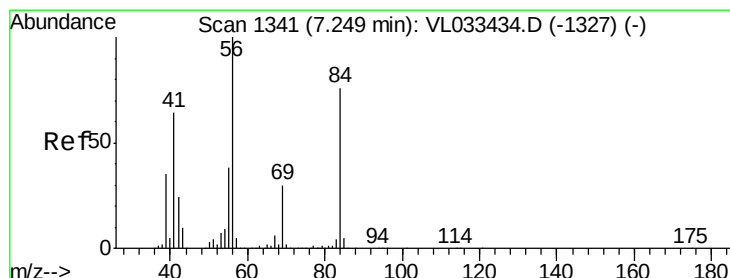
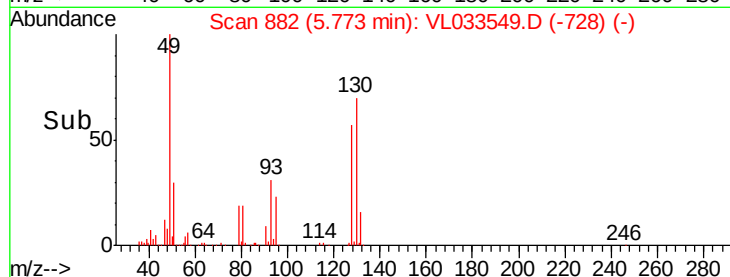
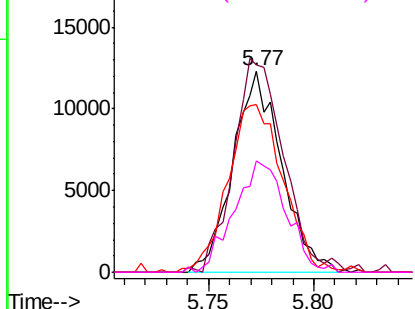
#26
Hexane
Concen: 0.172 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL033549.D
Acq: 5 Apr 2019 1:31

Instrument :
MSVOA_L
ClientSampleId :
BFB

Tgt Ion: 57 Resp: 19774
Ion Ratio Lower Upper
57 100
41 110.2 70.7 106.1#
43 95.8 182.6 274.0#
56 59.4 42.0 63.0

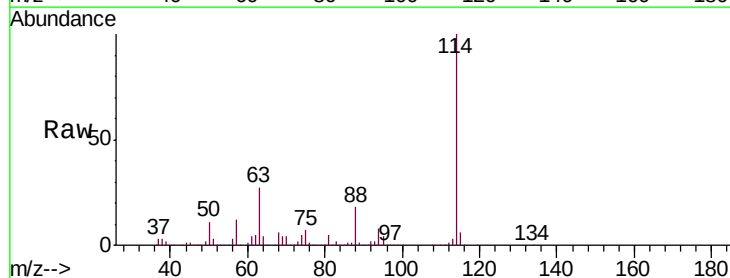


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

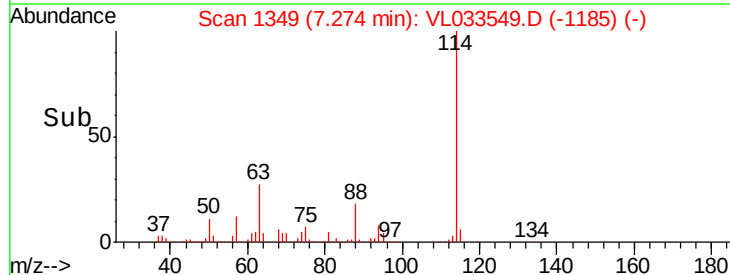
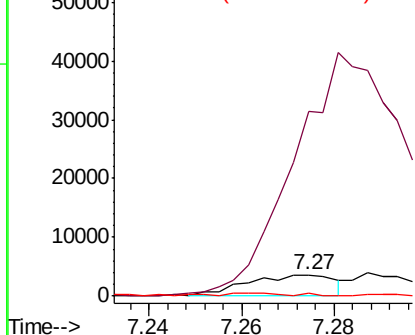


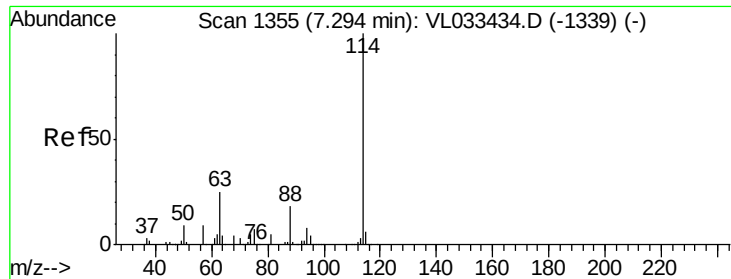
#30
Cyclohexane
Concen: 0.052 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. 0.03 min
Lab File: VL033549.D
Acq: 5 Apr 2019 1:31

Tgt Ion: 84 Resp: 4723
Ion Ratio Lower Upper
84 100
56 1569.0 109.7 164.5#
41 15.7 68.2 102.2#



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

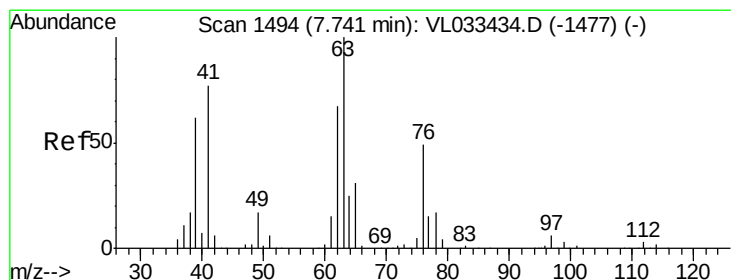
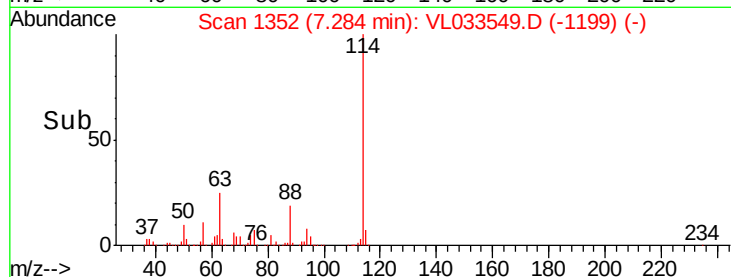
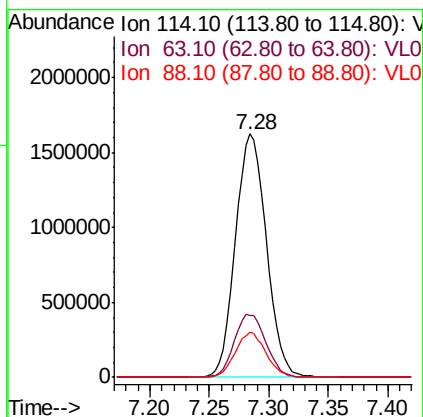
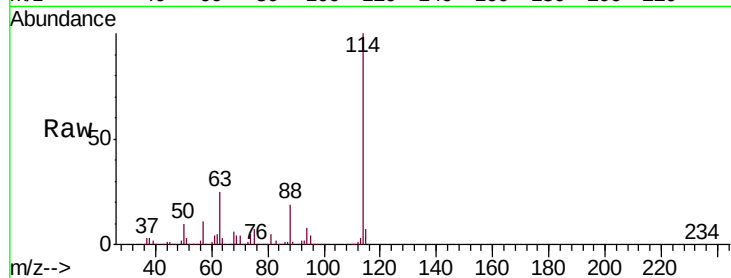




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033549.D
 Acq: 5 Apr 2019 1:31

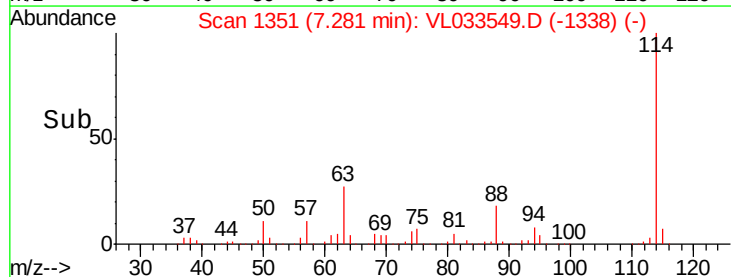
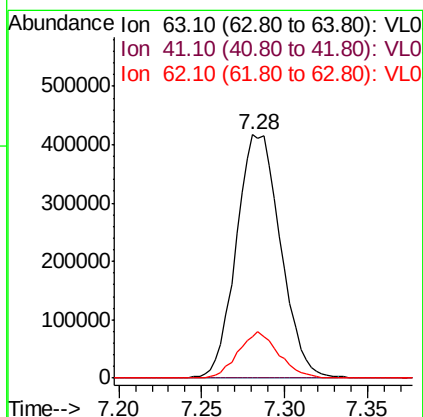
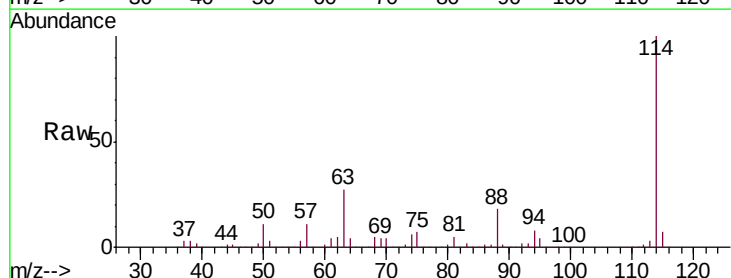
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

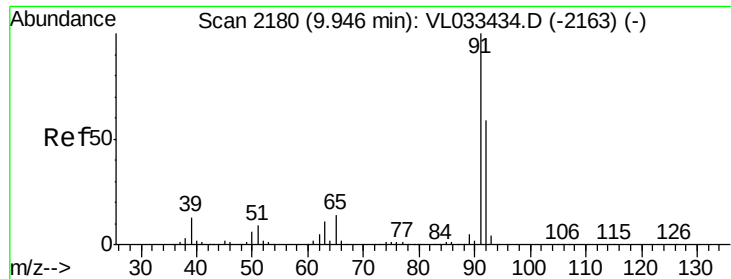
Tgt Ion: 114 Resp: 2936475
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.5 32.3
 88 18.3 14.5 21.7



#39
 1,2-Dichloropropane
 Concen: 8.027 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.46 min
 Lab File: VL033549.D
 Acq: 5 Apr 2019 1:31

Tgt Ion: 63 Resp: 774768
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 16.6 54.0 81.0#





#53

Toluene

Concen: 0.393 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033549.D

Acq: 5 Apr 2019 1:31

Instrument :

MSVOA_L

ClientSampled :

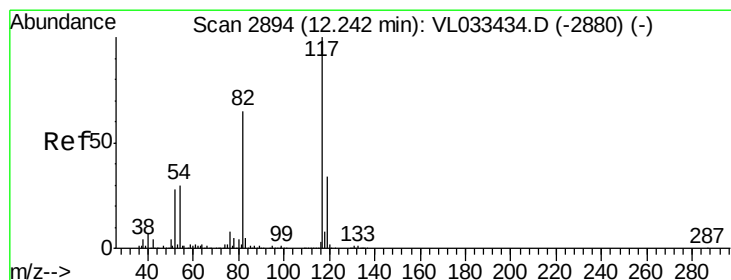
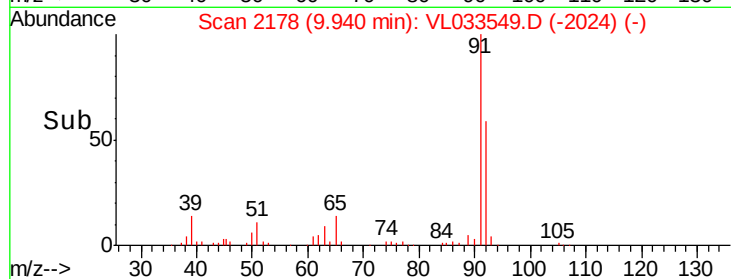
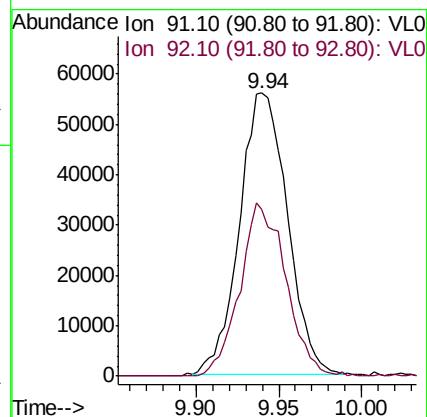
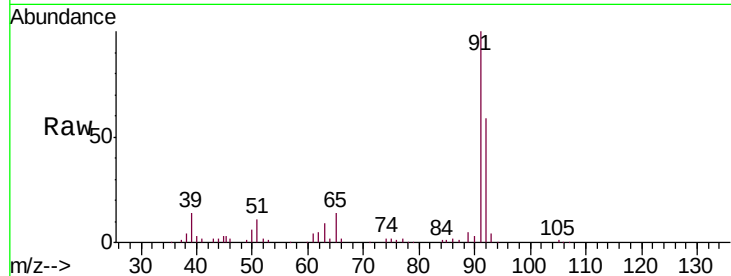
BFB

Tgt Ion: 91 Resp: 112590

Ion Ratio Lower Upper

91 100

92 59.1 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033549.D

Acq: 5 Apr 2019 1:31

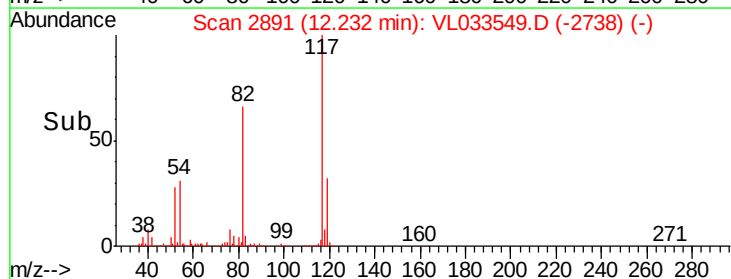
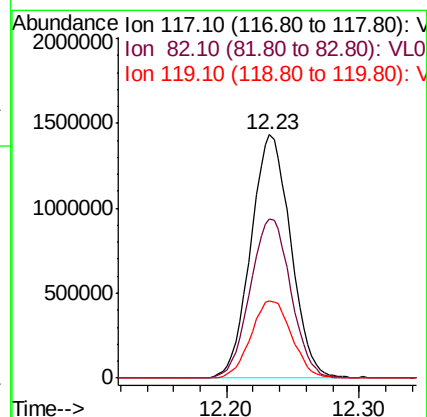
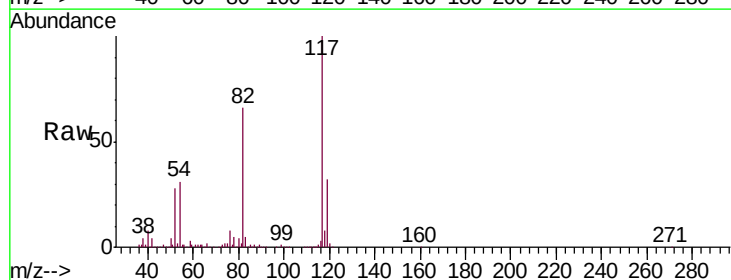
Tgt Ion: 117 Resp: 2994762

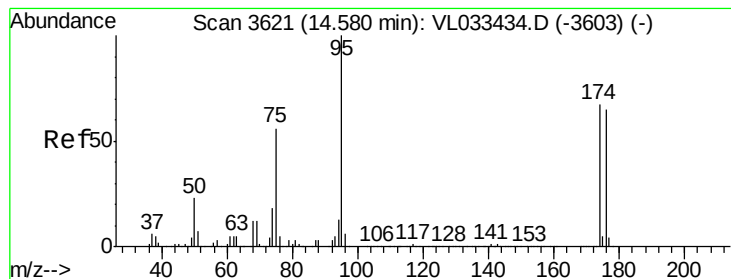
Ion Ratio Lower Upper

117 100

82 67.1 51.5 77.3

119 32.7 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.167 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033549.D

Acq: 5 Apr 2019 1:31

Instrument :

MSVOA_L

ClientSampleId :

BFB

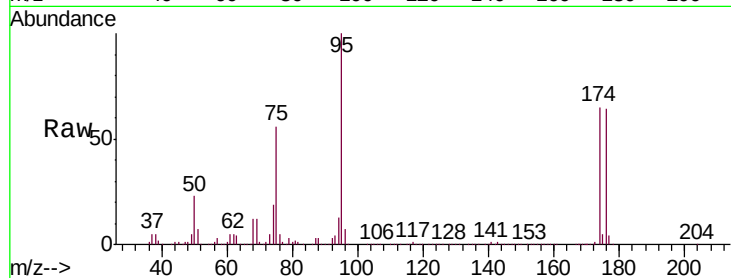
Tgt Ion: 95 Resp: 2387028

Ion Ratio Lower Upper

95 100

174 66.7 52.9 79.3

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

