

Data File : VL033223.D
Acq On : 15 Feb 2019 9:07
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 04:13:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	737517	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1633392	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2412837	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1537444 8.27 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 82.70%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	4994	0.035 ppbv #	58
3) Chlorodifluoromethane	3.02	51	6045	0.068 ppbv	97
4) Chloromethane	3.17	50	2670	0.057 ppbv #	42
5) Vinyl Chloride	3.29	62	2735	0.056 ppbv #	80
6) Bromomethane	3.52	94	828	0.031 ppbv #	52
8) Dichlorotetrafluoroethane	3.22	85	6351	0.058 ppbv	93
11) Trichlorofluoromethane	4.01	101	5056	0.044 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	4096	0.052 ppbv #	81
13) Ethanol	3.67	45	1506	0.105 ppbv #	37
14) Bromoethene	3.79	108	1503	0.044 ppbv #	54
16) 1,3-Butadiene	3.36	39	1815	0.046 ppbv	95
20) Methylene Chloride	4.40	84	2521	0.076 ppbv	94
22) trans-1,2-Dichloroethene	4.97	96	1669	0.049 ppbv	95
23) Vinyl Acetate	5.16	43	8326	0.058 ppbv #	93
24) 1,1-Dichloroethane	5.09	63	3830	0.038 ppbv #	94
26) Hexane	5.78	57	2966	0.034 ppbv #	16
31) cis-1,2-Dichloroethene	5.63	61	2670	0.030 ppbv	91
36) Benzene	7.00	78	8207	0.050 ppbv #	81
39) 1,2-Dichloropropane	7.29	63	437863	6.698 ppbv #	26

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

Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_L\DATA\VL021419\

Quantitation Report

(Not Reviewed)

Acq On : 15 Feb 2019 9:07

Operator : SY/AP

Sample : VIBLK

Misc : 400ml/MSV0A_L

ALS Vial : 1 Sample Multiplier: 1

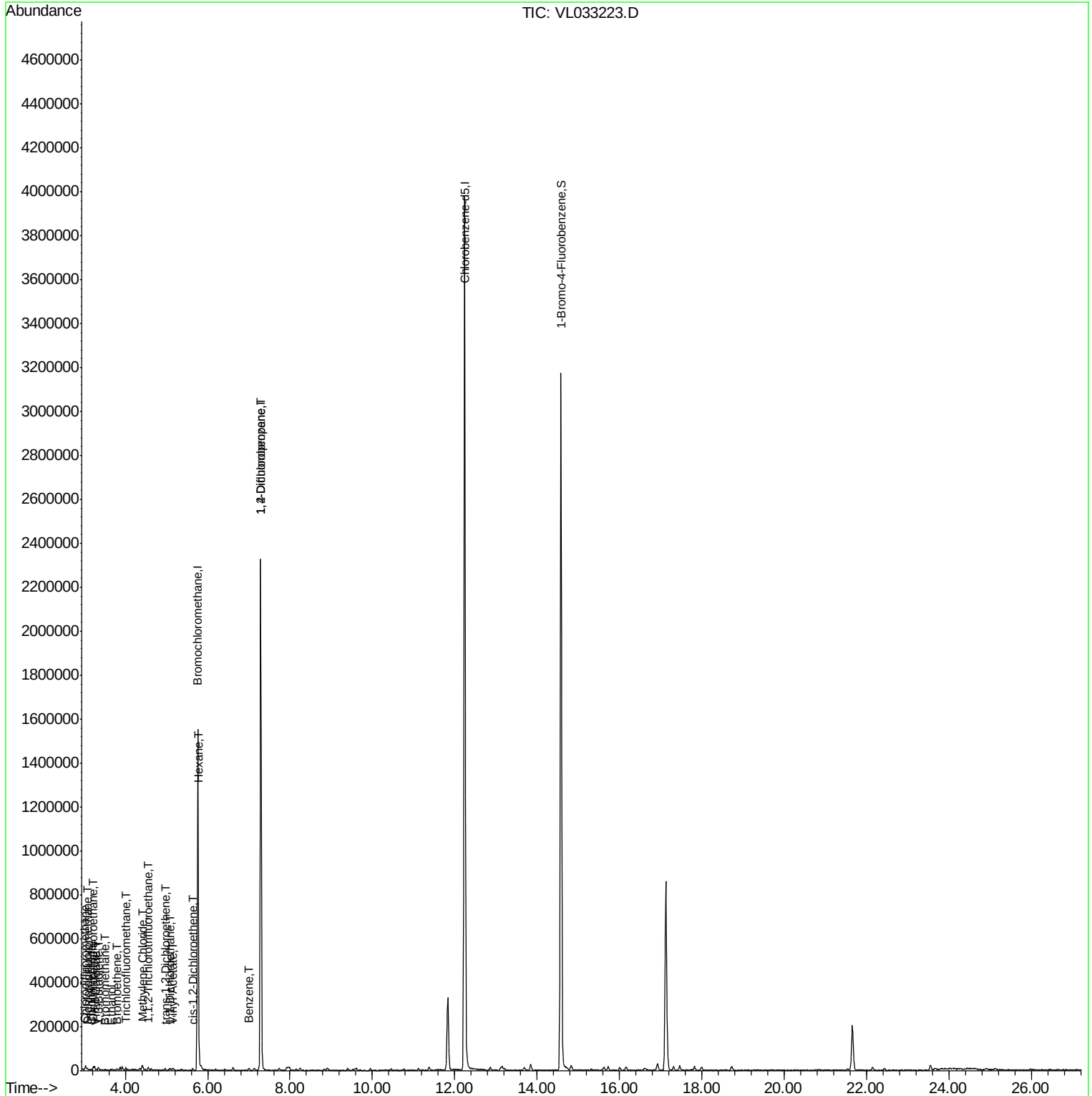
Quant Time: Feb 16 04:13:18 2019

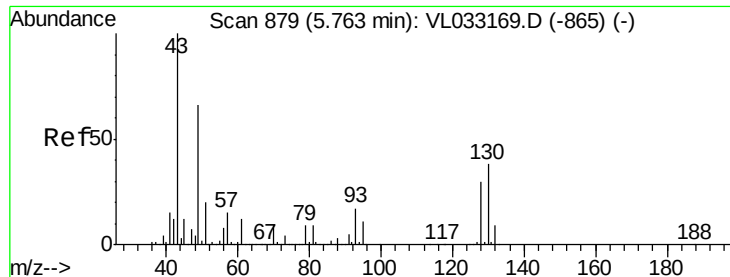
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019

QLast Update : Wed Feb 06 09:13:11 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

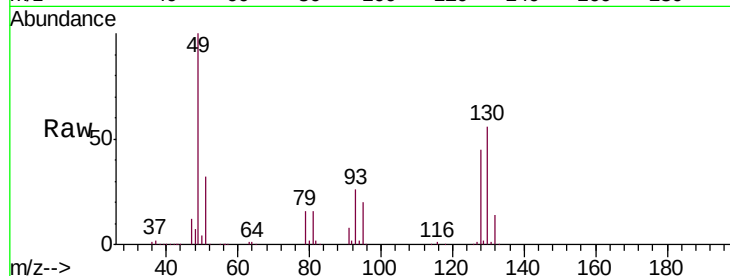
RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

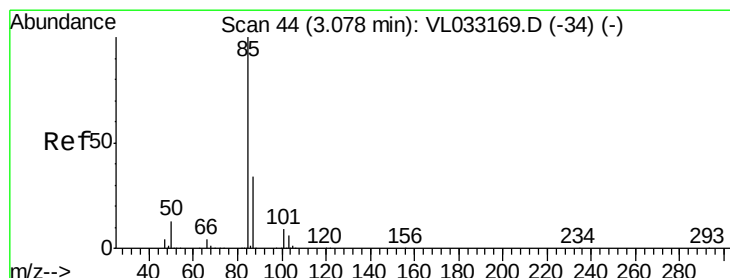
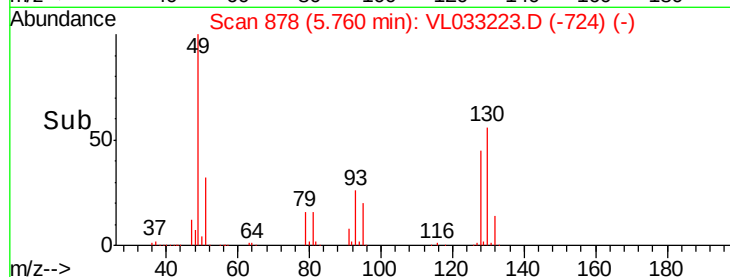
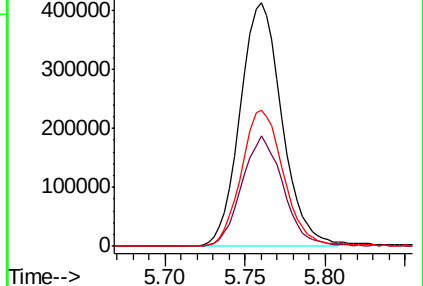
Tgt Ion:	49	Resp:	737517
Ion	Ratio	Lower	Upper
49	100		
128	45.2	23.6	71.0
130	57.3	30.3	91.0



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: 0.035 ppbv

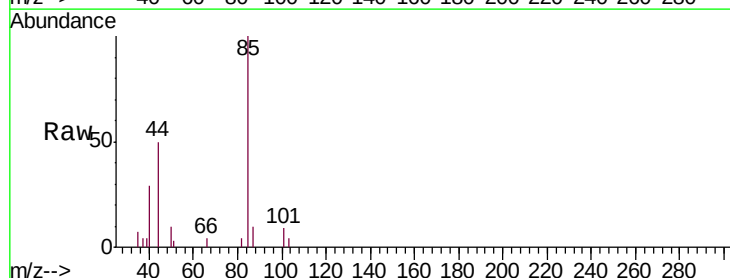
RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033223.D

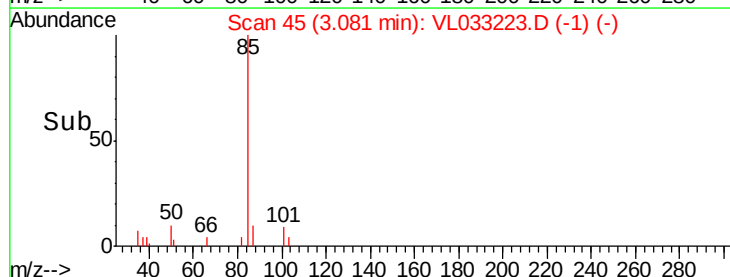
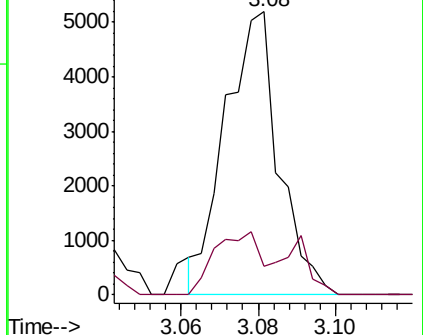
Acq: 15 Feb 2019 9:07

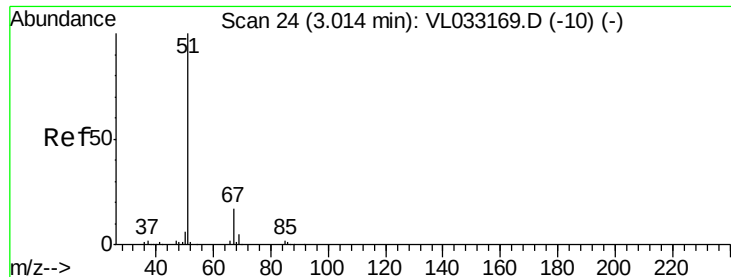
Tgt Ion:	85	Resp:	4994
Ion	Ratio	Lower	Upper
85	100		
87	10.0	27.4	41.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.068 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033223.D

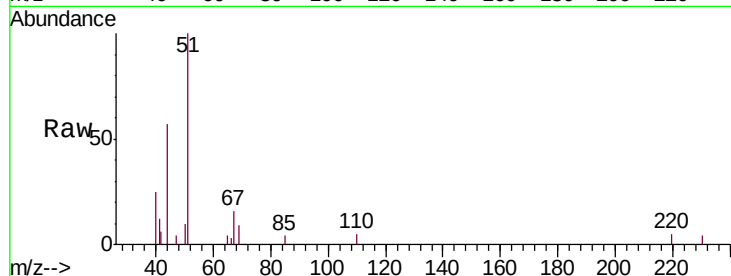
Acq: 15 Feb 2019 9:07

Tgt Ion: 51 Resp: 6045

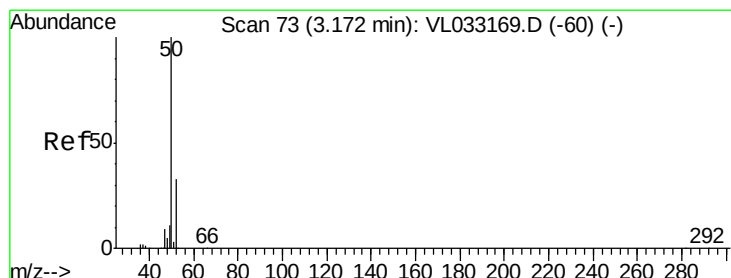
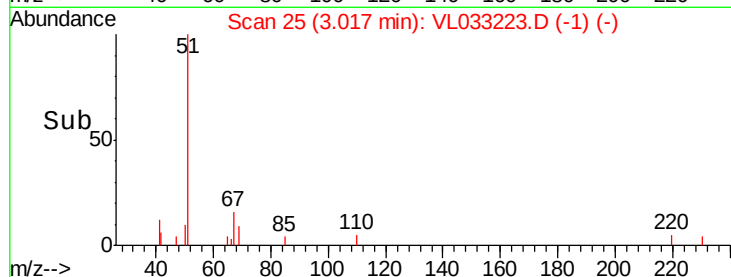
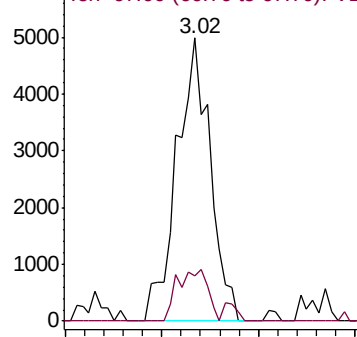
Ion Ratio Lower Upper

51 100

67 18.9 14.0 21.0



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: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033223.D

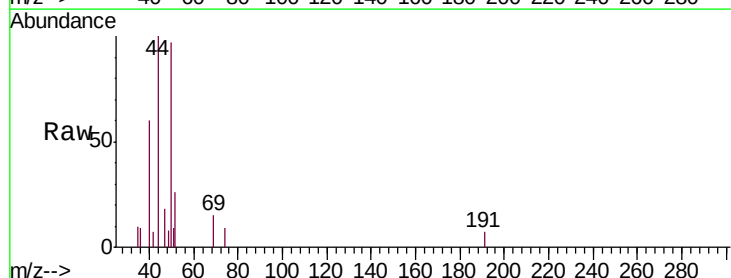
Acq: 15 Feb 2019 9:07

Tgt Ion: 50 Resp: 2670

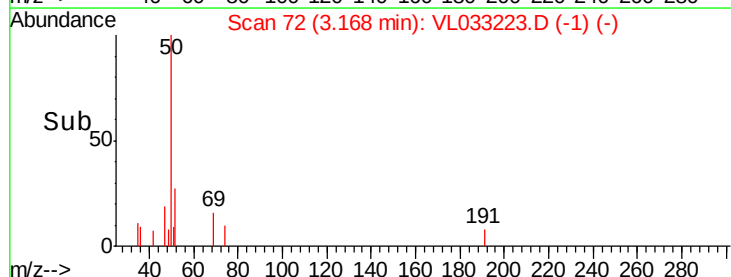
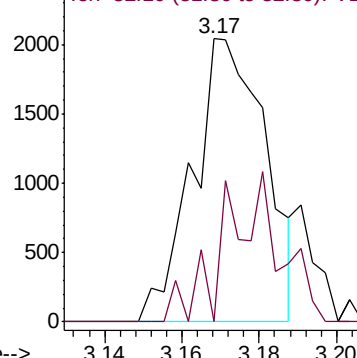
Ion Ratio Lower Upper

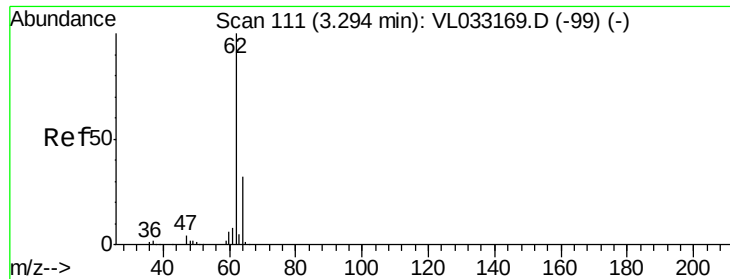
50 100

52 0.0 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.056 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033223.D

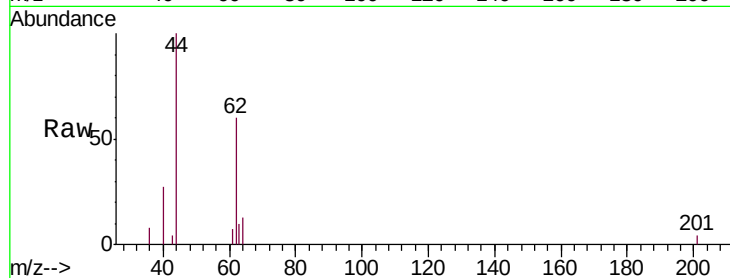
Acq: 15 Feb 2019 9:07

Tgt Ion: 62 Resp: 2735

Ion Ratio Lower Upper

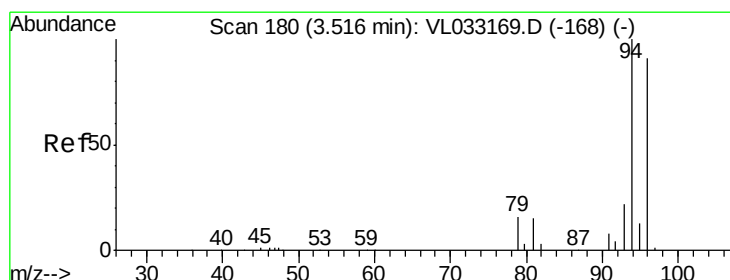
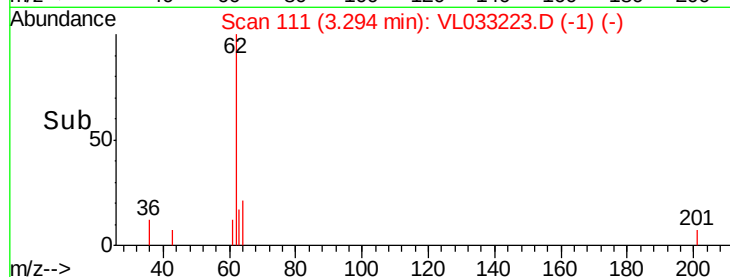
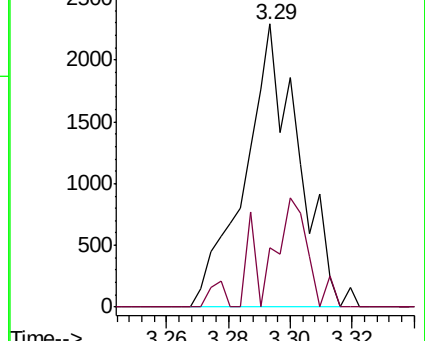
62 100

64 20.9 25.6 38.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.031 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033223.D

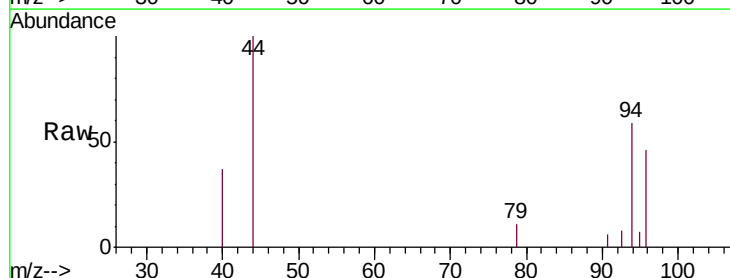
Acq: 15 Feb 2019 9:07

Tgt Ion: 94 Resp: 828

Ion Ratio Lower Upper

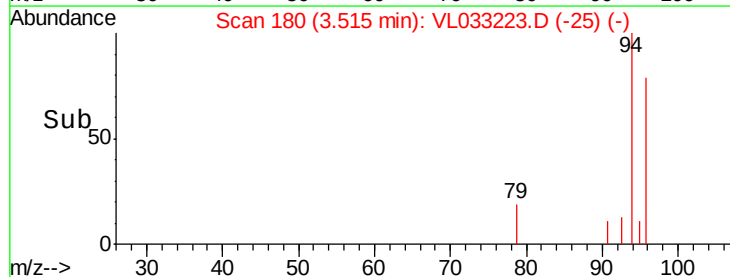
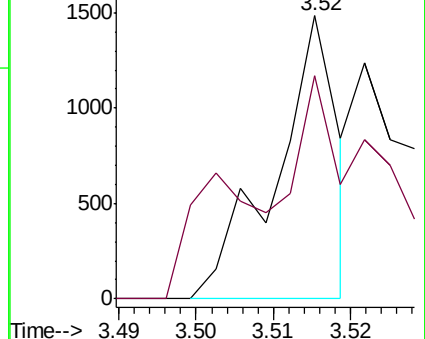
94 100

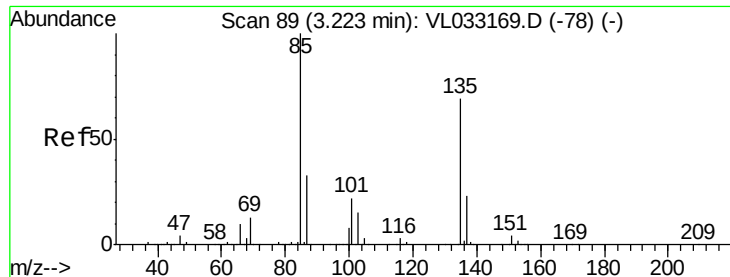
96 45.7 73.2 109.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.058 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033223.D

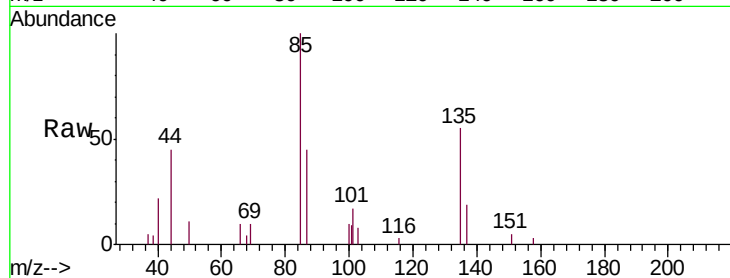
Acq: 15 Feb 2019 9:07

Tgt Ion: 85 Resp: 6351

Ion Ratio Lower Upper

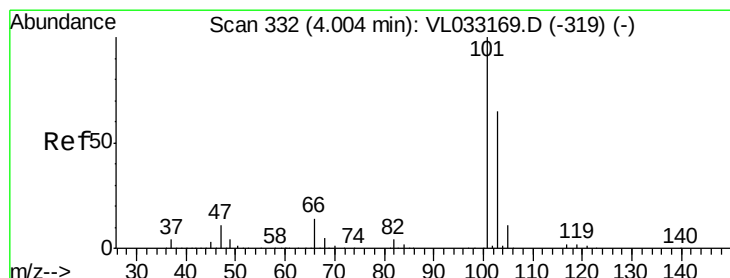
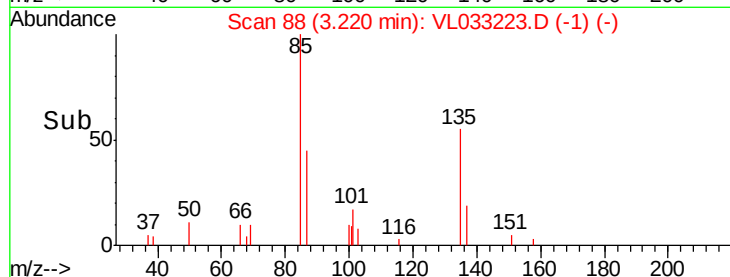
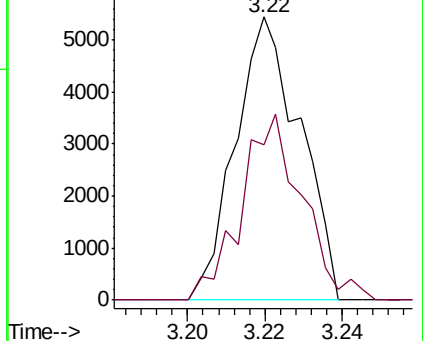
85 100

135 62.0 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#11

Trichlorofluoromethane

Concen: 0.044 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033223.D

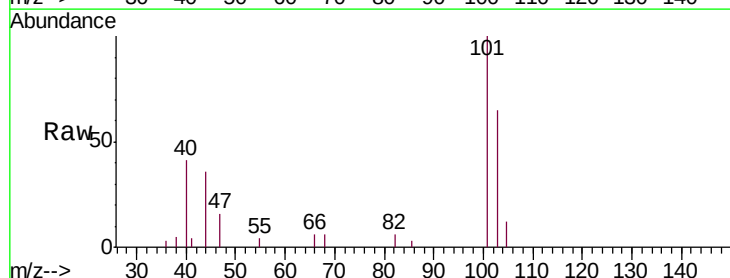
Acq: 15 Feb 2019 9:07

Tgt Ion: 101 Resp: 5056

Ion Ratio Lower Upper

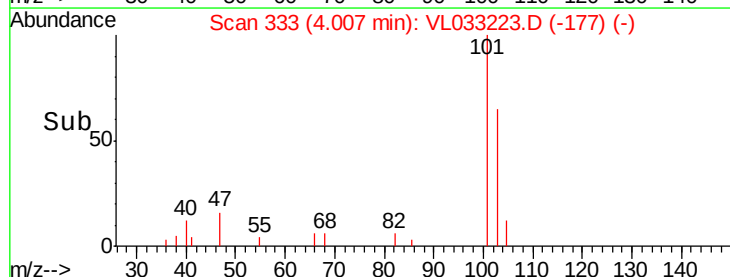
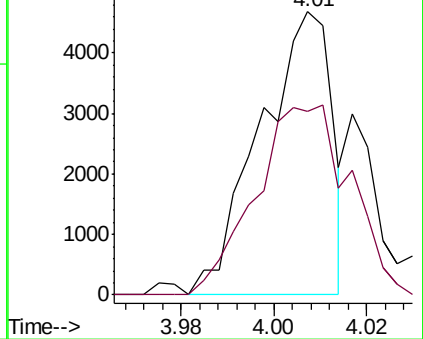
101 100

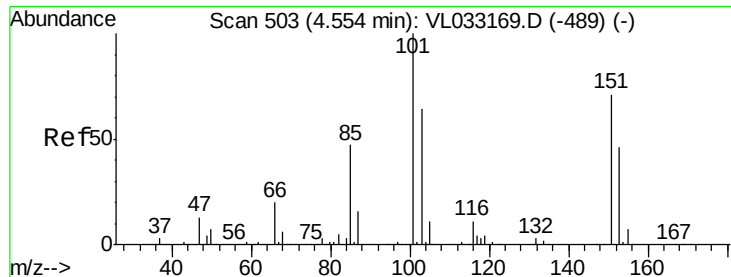
103 65.0 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.052 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033223.D

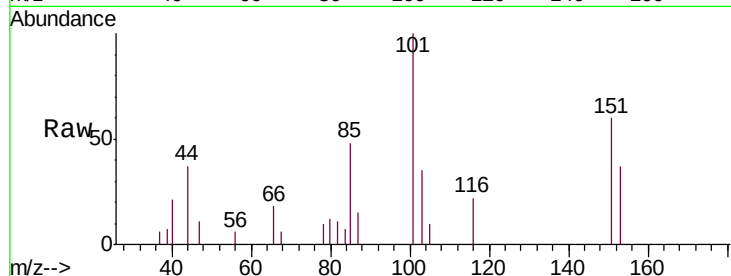
Acq: 15 Feb 2019 9:07

Tgt Ion: 101 Resp: 4096

Ion Ratio Lower Upper

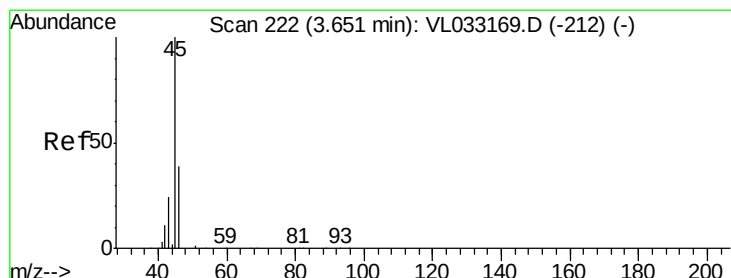
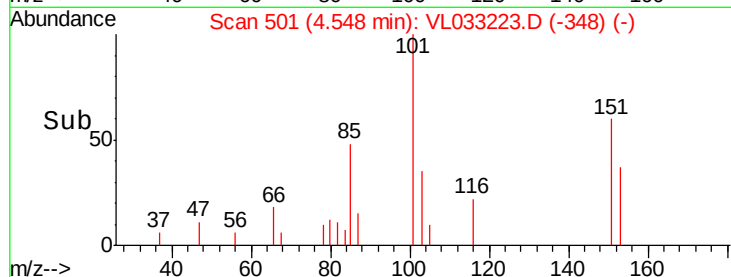
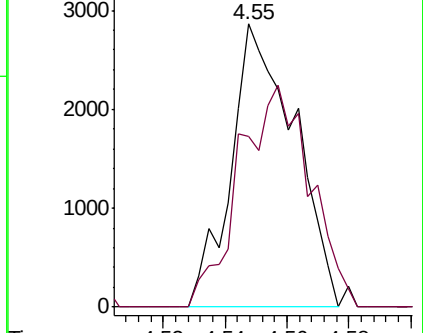
101 100

151 87.2 57.4 86.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.105 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033223.D

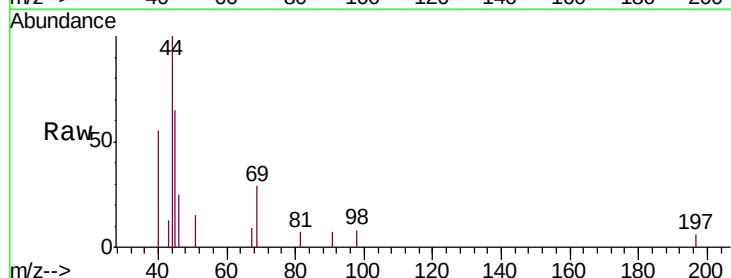
Acq: 15 Feb 2019 9:07

Tgt Ion: 45 Resp: 1506

Ion Ratio Lower Upper

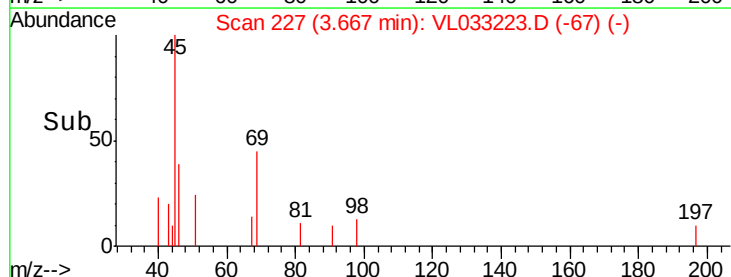
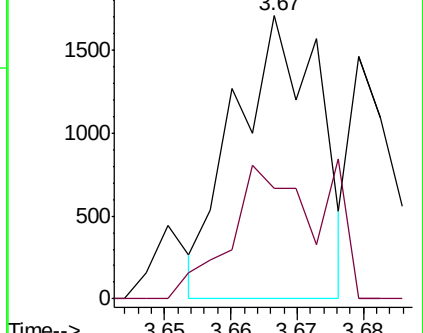
45 100

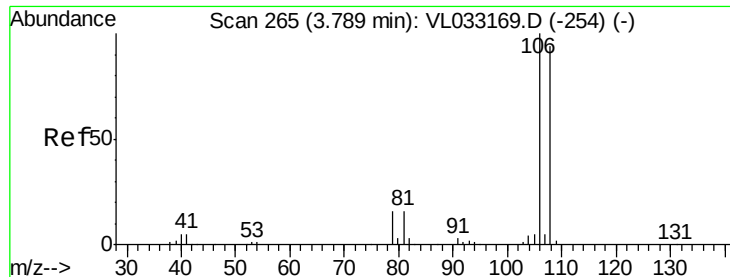
46 0.0 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.044 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

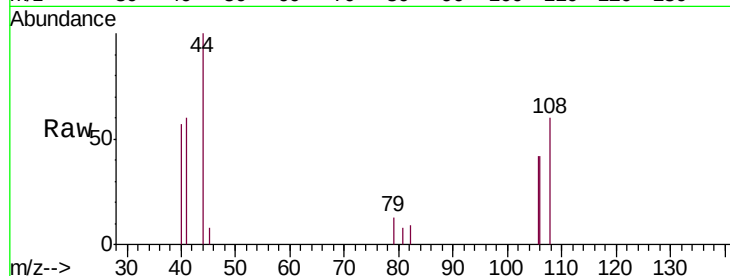
Tgt Ion: 108 Resp: 1503

Ion Ratio Lower Upper

108 100

106 160.1 86.0 129.0#

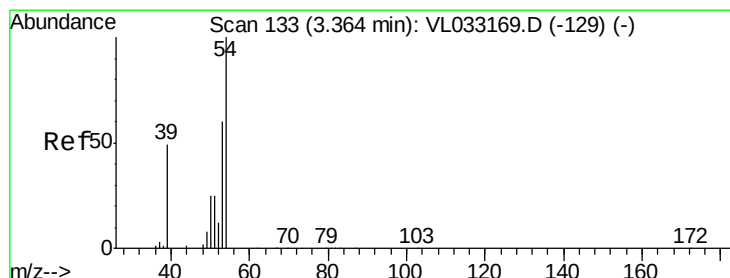
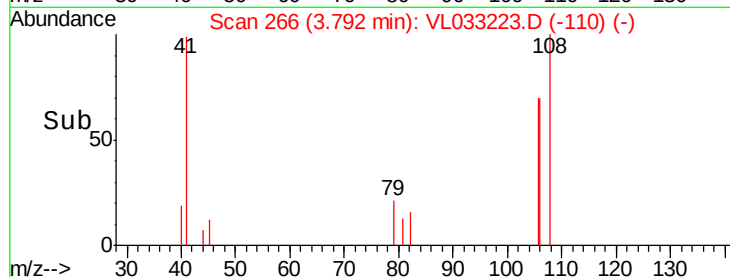
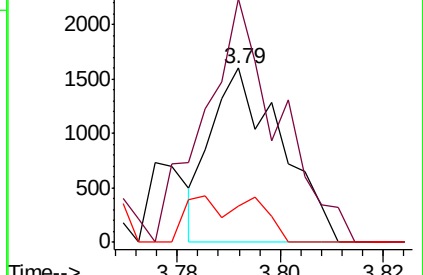
79 26.2 14.5 21.7#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#16

1,3-Butadiene

Concen: 0.046 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033223.D

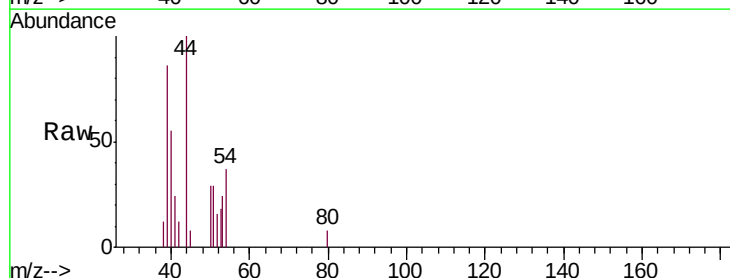
Acq: 15 Feb 2019 9:07

Tgt Ion: 39 Resp: 1815

Ion Ratio Lower Upper

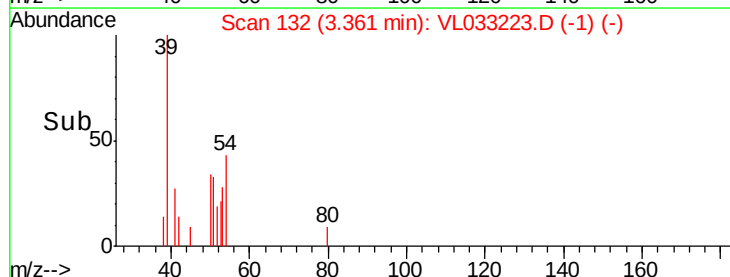
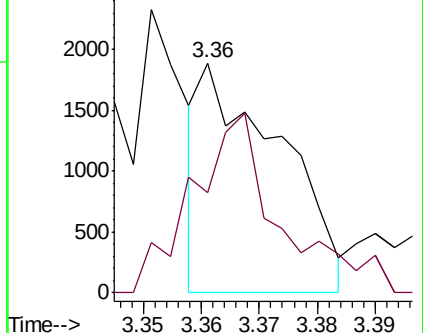
39 100

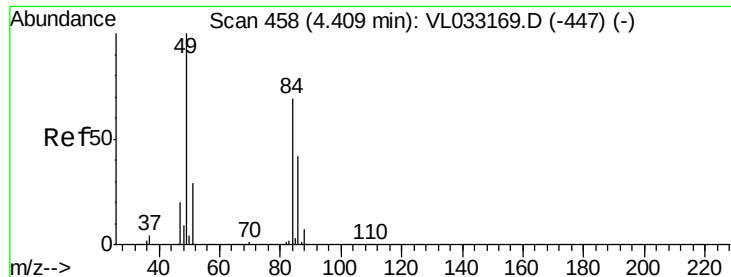
54 84.8 71.3 106.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#20

Methylene Chloride

Concen: 0.076 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

Tgt Ion: 84 Resp: 2521

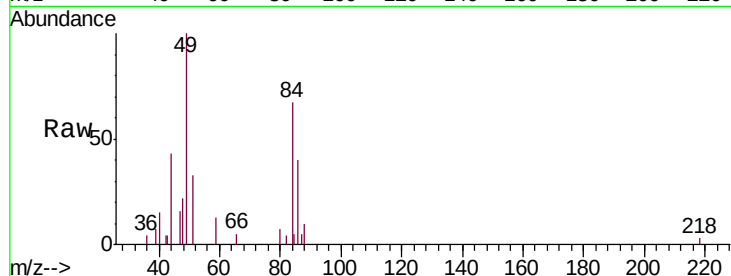
Ion Ratio Lower Upper

84 100

49 138.1 115.8 173.8

51 45.8 33.0 49.6

86 55.5 48.2 72.2

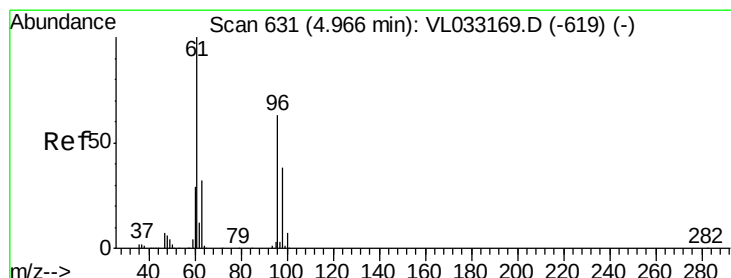
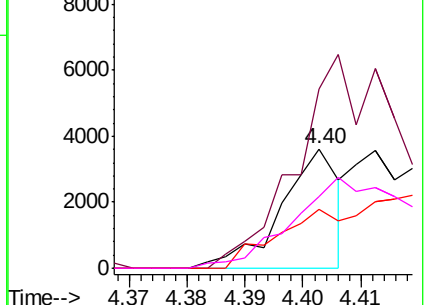
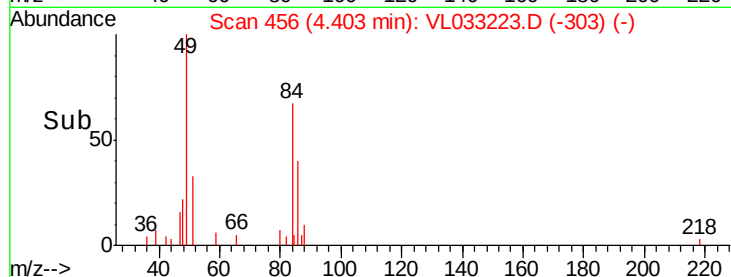


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.049 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

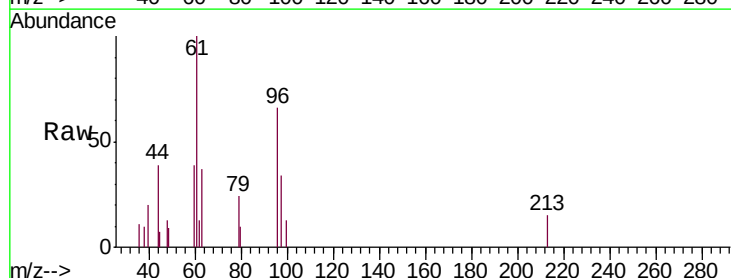
Tgt Ion: 96 Resp: 1669

Ion Ratio Lower Upper

96 100

61 153.8 126.4 189.6

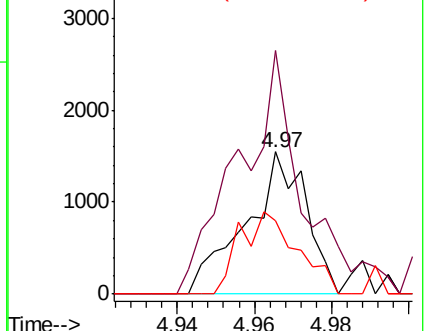
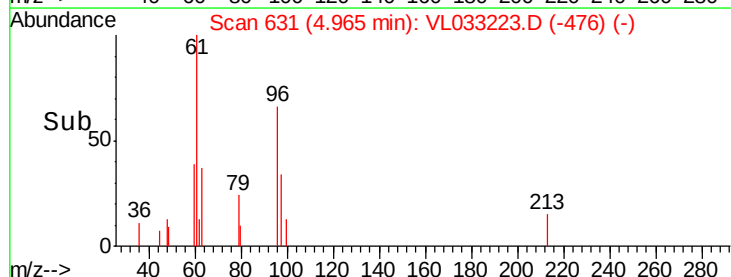
98 52.1 48.4 72.6

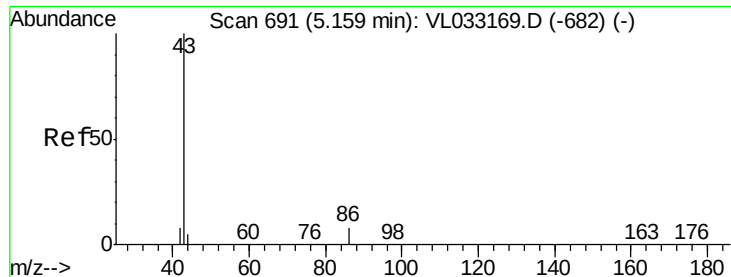


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.058 ppbv

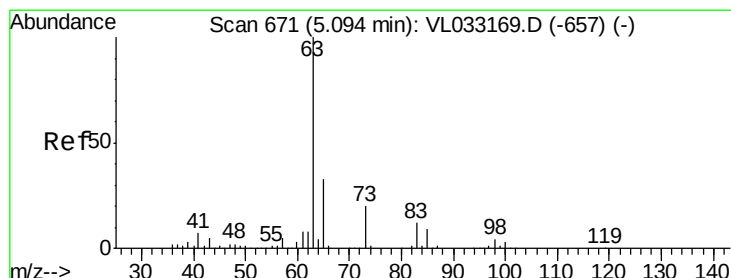
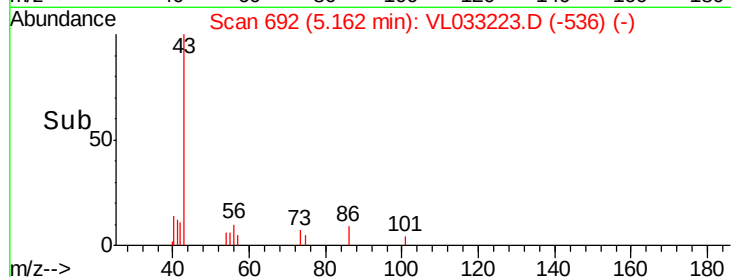
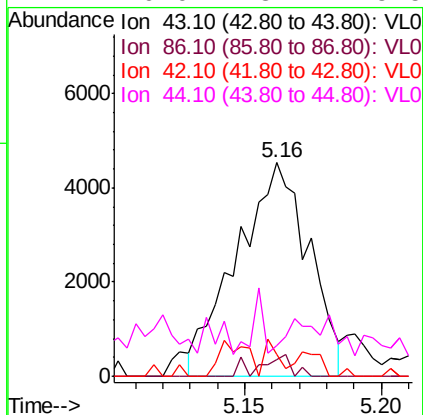
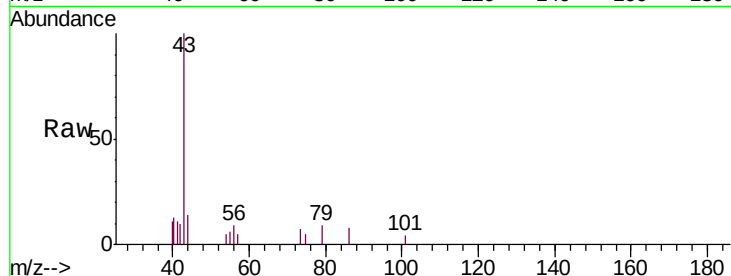
RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

Tgt Ion:	43	Resp:	8326
Ion	Ratio	Lower	Upper
43	100		
86	9.0	5.8	8.8#
42	11.3	7.4	11.0#
44	0.0	3.7	5.5#



#24

1,1-Dichloroethane

Concen: 0.038 ppbv

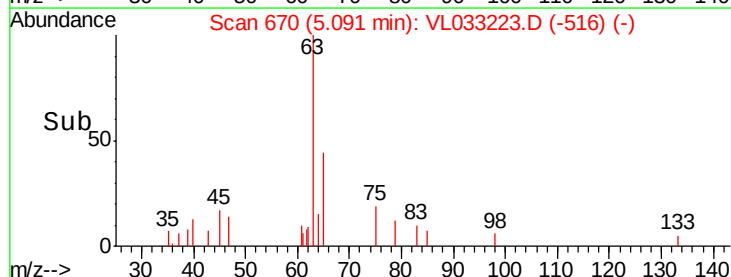
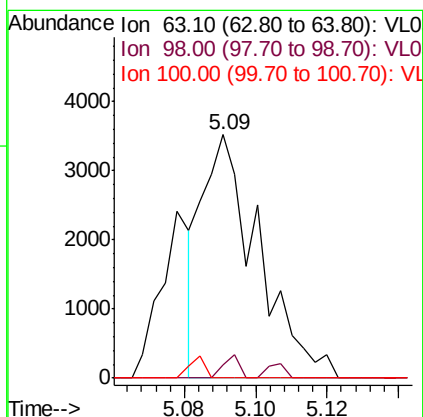
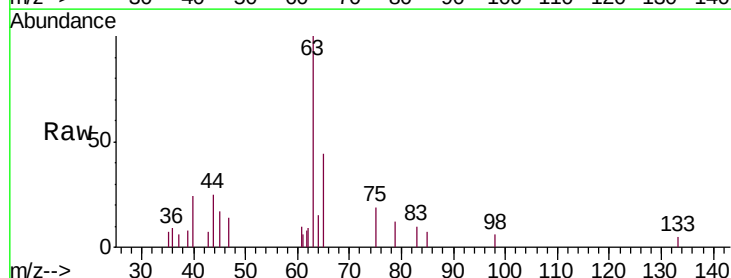
RT: 5.09 min Scan# 670

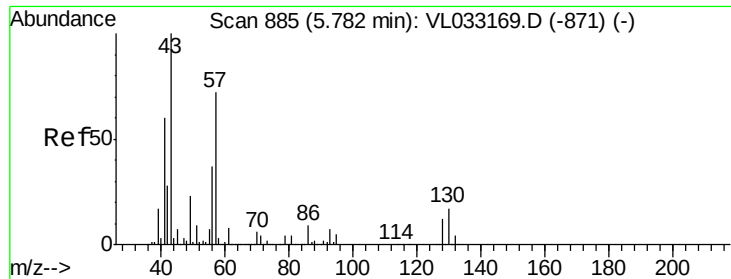
Delta R.T. -0.00 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

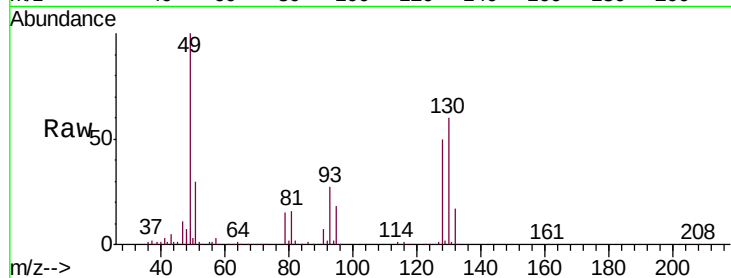
Tgt Ion:	63	Resp:	3830
Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.1	6.5
100	0.0	1.4	4.2#



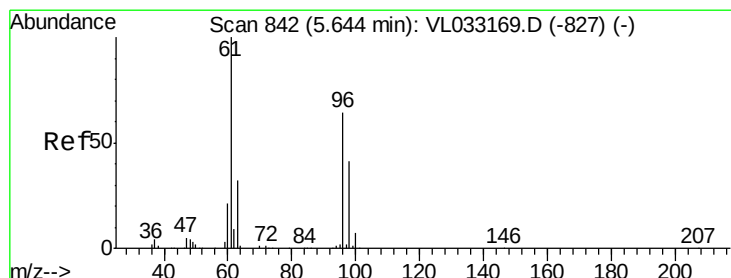
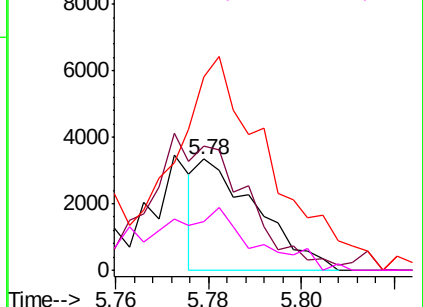
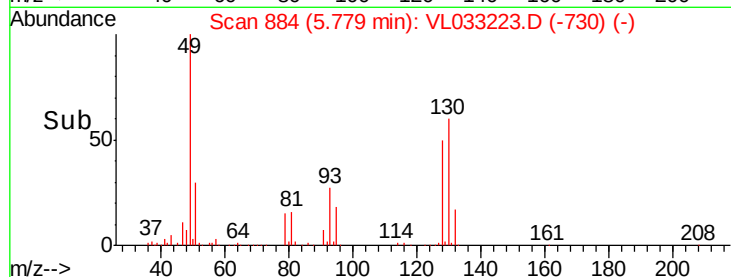


#26
Hexane
Concen: 0.034 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033223.D
Acq: 15 Feb 2019 9:07

Tgt Ion: 57 Resp: 2966
Ion Ratio Lower Upper
57 100
41 0.0 69.4 104.2#
43 357.2 176.7 265.1#
56 98.3 41.4 62.0#

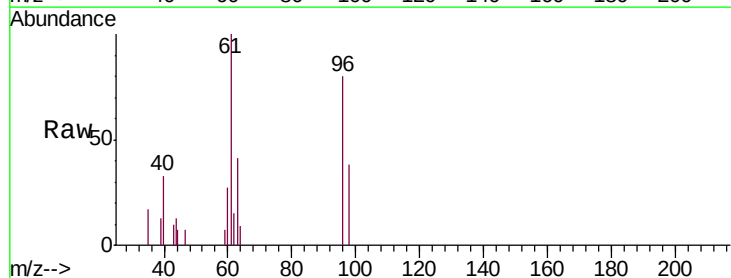


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

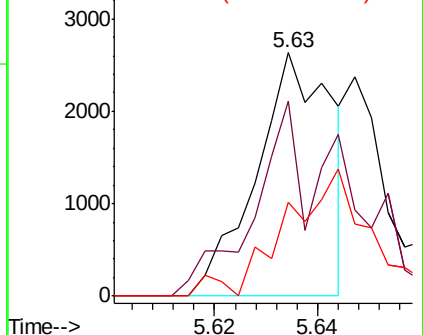
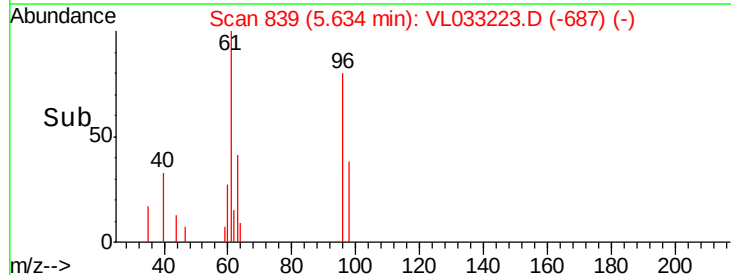


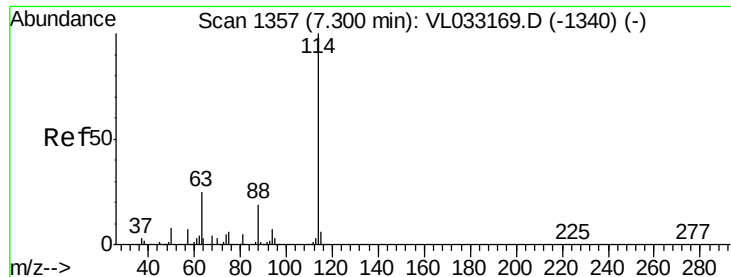
#31
cis-1,2-Dichloroethene
Concen: 0.030 ppbv
RT: 5.63 min Scan# 839
Delta R.T. -0.01 min
Lab File: VL033223.D
Acq: 15 Feb 2019 9:07

Tgt Ion: 61 Resp: 2670
Ion Ratio Lower Upper
61 100
96 73.7 51.2 76.8
98 38.5 32.8 49.2



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

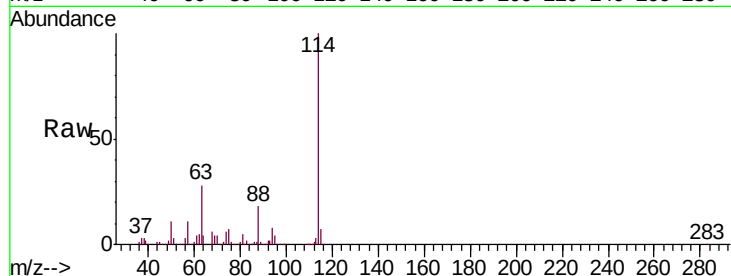
Tgt Ion: 114 Resp: 1633392

Ion Ratio Lower Upper

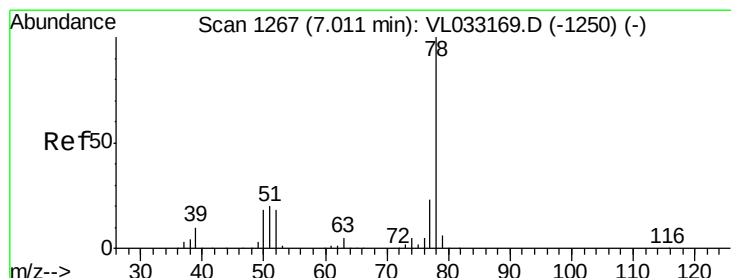
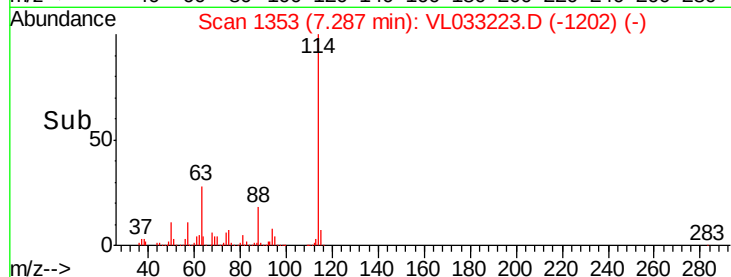
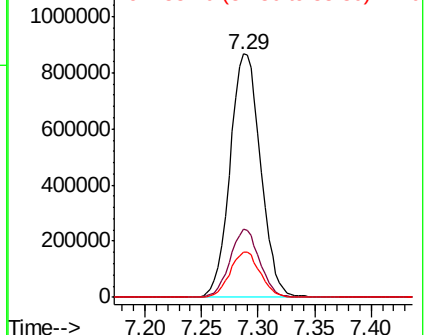
114 100

63 27.2 20.8 31.2

88 18.3 14.6 22.0



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



#36

Benzene

Concen: 0.050 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

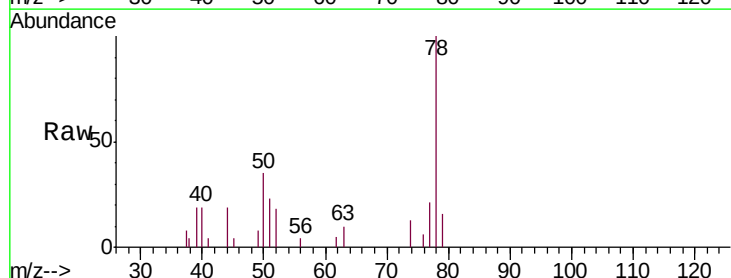
Tgt Ion: 78 Resp: 8207

Ion Ratio Lower Upper

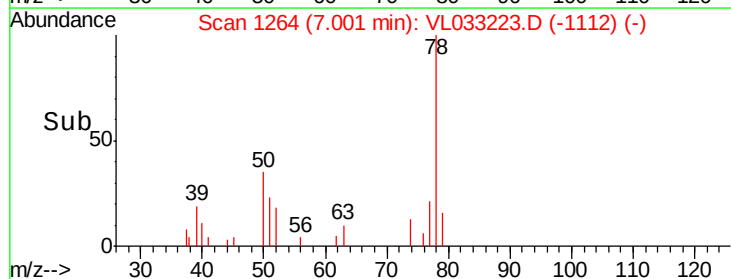
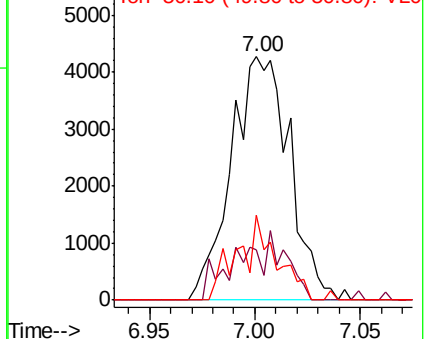
78 100

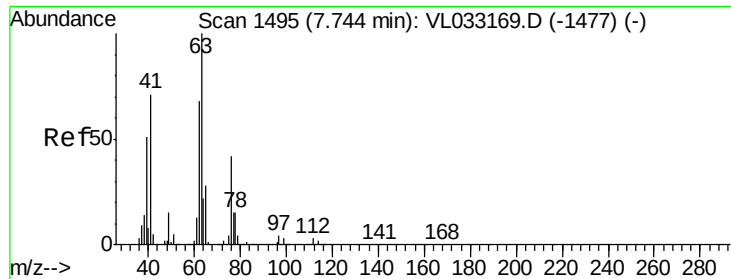
77 20.9 18.0 27.0

50 34.6 14.2 21.2#



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: 6.698 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

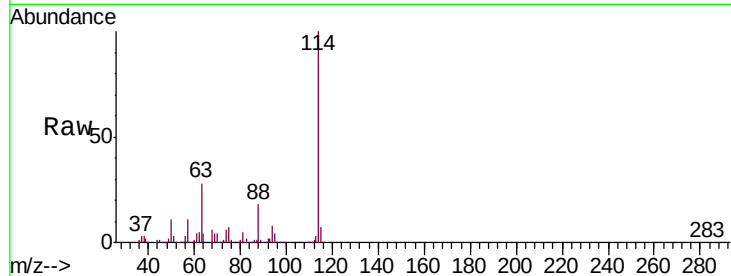
Tgt Ion: 63 Resp: 437863

Ion Ratio Lower Upper

63 100

41 0.0 56.4 84.6#

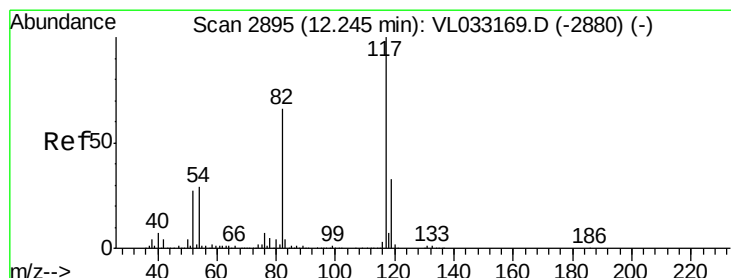
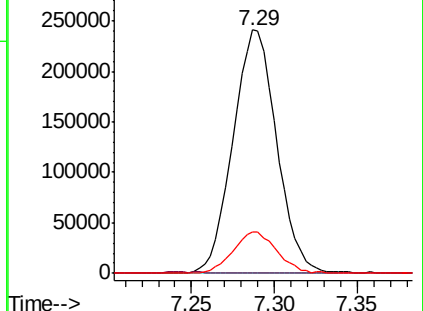
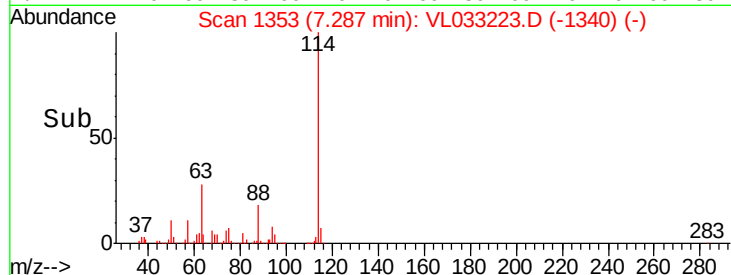
62 17.3 54.2 81.4#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

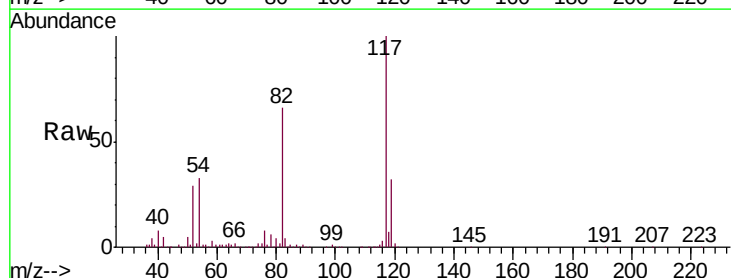
Tgt Ion: 117 Resp: 2412837

Ion Ratio Lower Upper

117 100

82 68.7 49.5 74.3

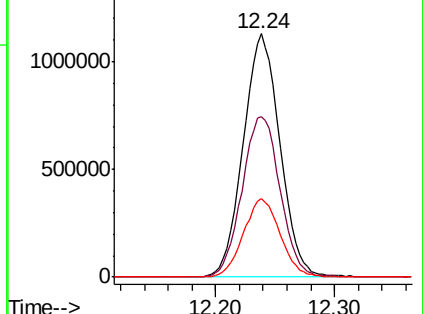
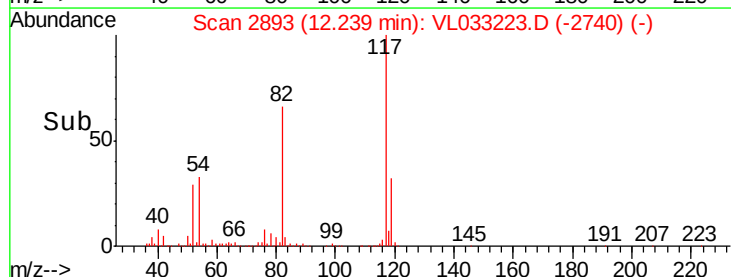
119 32.4 24.4 36.6

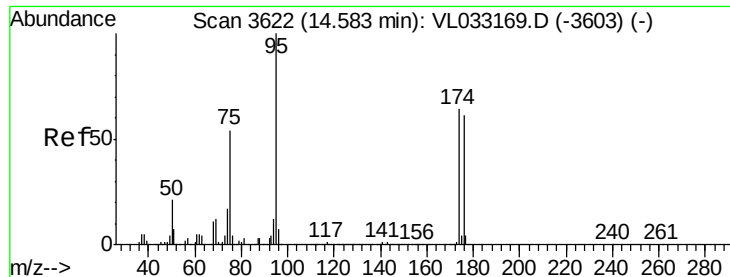


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 8.274 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033223.D

Acq: 15 Feb 2019 9:07

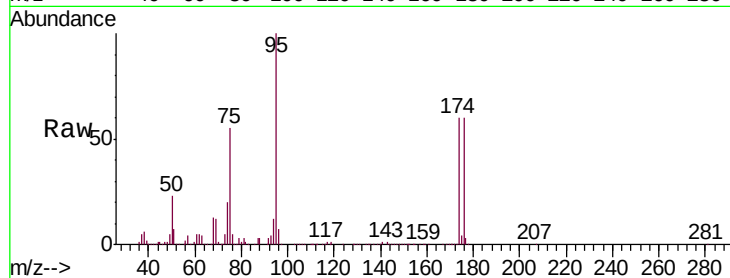
Tgt Ion: 95 Resp: 1537444

Ion Ratio Lower Upper

95 100

174 62.7 51.2 76.8

175 4.7 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

