

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033206.D
 Acq On : 14 Feb 2019 20:16
 Operator : SY/AP
 Sample : K1483-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:18:40 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	946981	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2181372	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2154101	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1738690	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

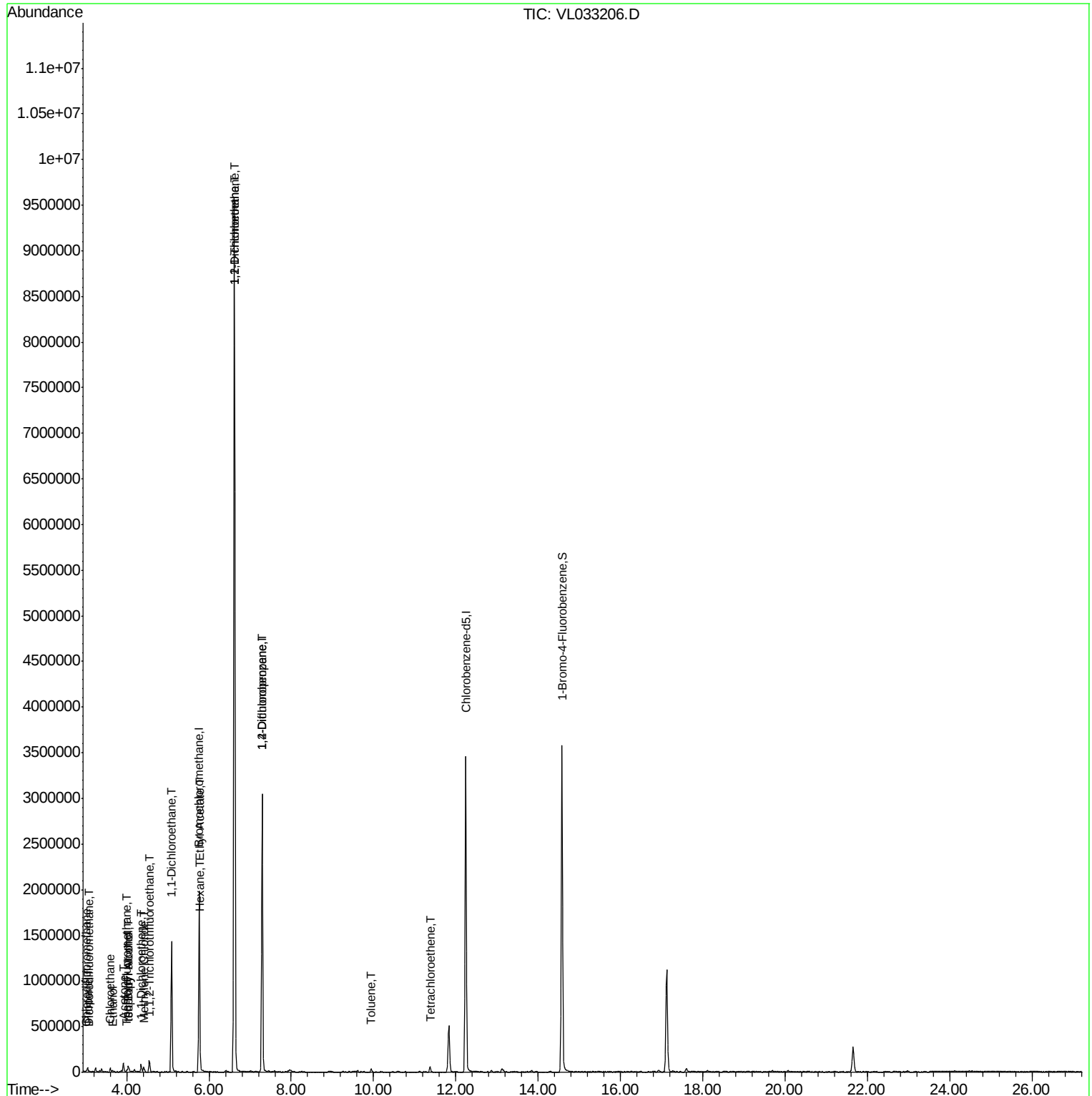
Target Compounds

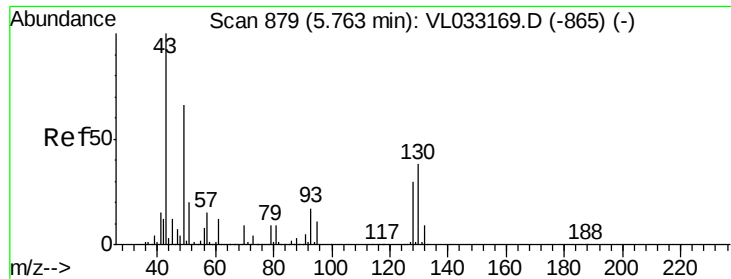
					Qvalue	
2) Dichlorodifluoromethane	3.08	85	7791	0.043	ppbv	# 81
3) Chlorodifluoromethane	3.02	51	5274	0.046	ppbv	96
7) Chloroethane	3.60	64	22449	1.092	ppbv	99
9) Propene	3.05	41	4617	0.084	ppbv	100
11) Trichlorofluoromethane	4.01	101	15215	0.104	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	43455	0.428	ppbv	99
13) Ethanol	3.66	45	13014	0.709	ppbv	92
15) Acetone	3.91	43	80855	0.758	ppbv	97
17) tert-Butyl alcohol	4.04	59	2789	0.137	ppbv	95
18) 1,1-Dichloroethene	4.35	96	25003	0.550	ppbv	89
19) Isopropyl Alcohol	4.04	45	66944	0.925	ppbv	# 97
20) Methylene Chloride	4.41	84	14622	0.345	ppbv	92
24) 1,1-Dichloroethane	5.09	63	1197059	9.153	ppbv	100
25) Ethyl Acetate	5.78	43	13061	0.054	ppbv	# 81
26) Hexane	5.78	57	8529	0.076	ppbv	# 34
32) 1,1,1-Trichloroethane	6.62	97	6417604	33.773	ppbv	99
37) 1,2-Dichloroethane	6.62	62	453454	3.701	ppbv	# 1
39) 1,2-Dichloropropane	7.29	63	580621	6.650	ppbv	# 26
52) Tetrachloroethene	11.37	164	11953	0.141	ppbv	# 81
53) Toluene	9.94	91	10529	0.040	ppbv	# 12

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
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Acq On    : 14 Feb 2019   20:16
Operator  : SY/AP
Sample    : K1483-02DL 10X
Misc      : 400ml/MSVOA_L
ALS Vial  : 1    Sample Multiplier: 1
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Quant Time: Feb 15 04:18:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_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: VL033206.D

Acq: 14 Feb 2019 20:16

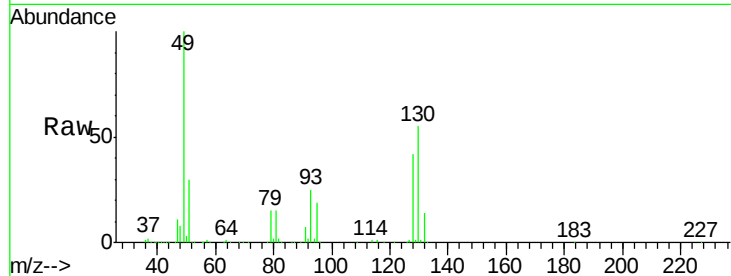
Tgt Ion: 49 Resp: 946981

Ion Ratio Lower Upper

49 100

128 45.8 23.6 71.0

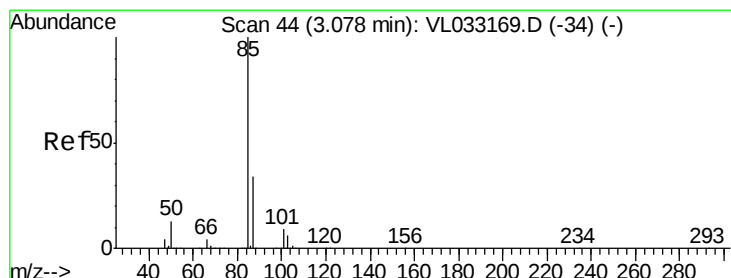
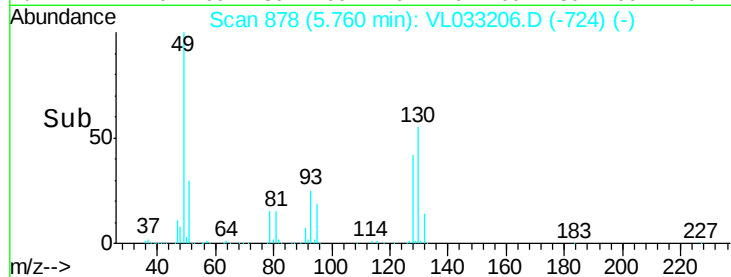
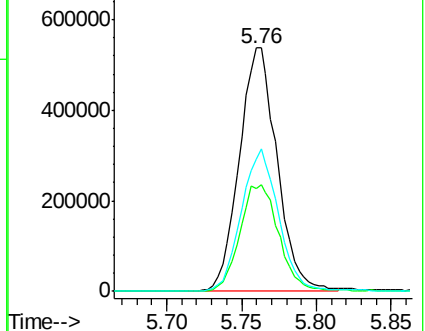
130 57.9 30.3 91.0



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: 0.043 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033206.D

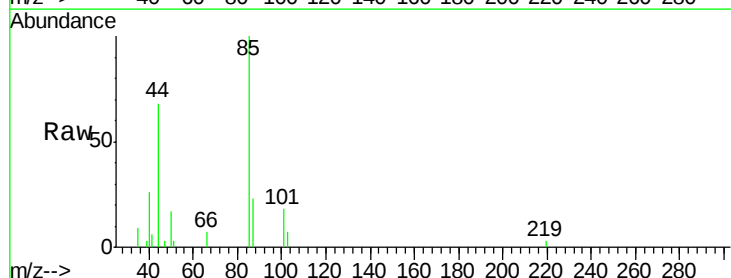
Acq: 14 Feb 2019 20:16

Tgt Ion: 85 Resp: 7791

Ion Ratio Lower Upper

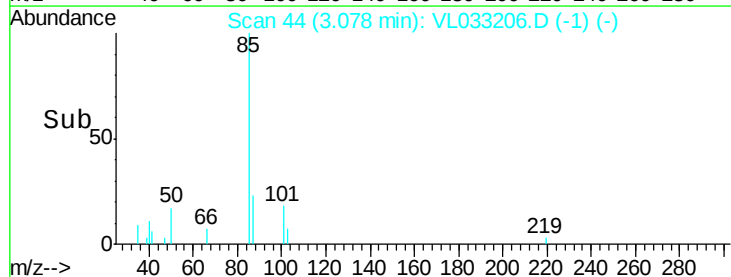
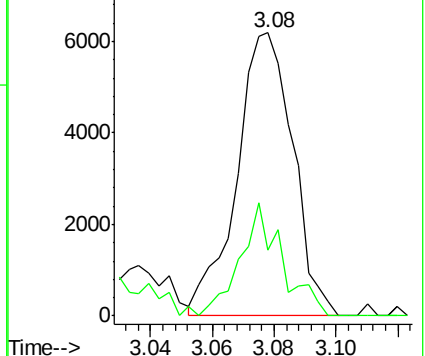
85 100

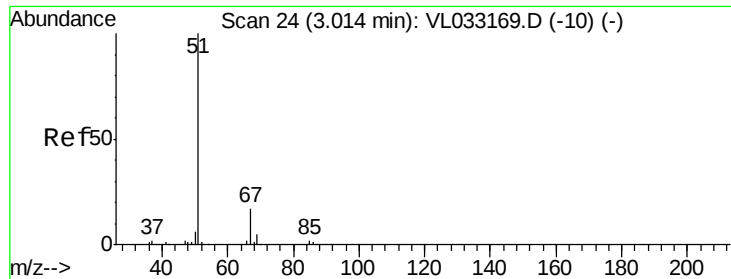
87 23.4 27.4 41.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

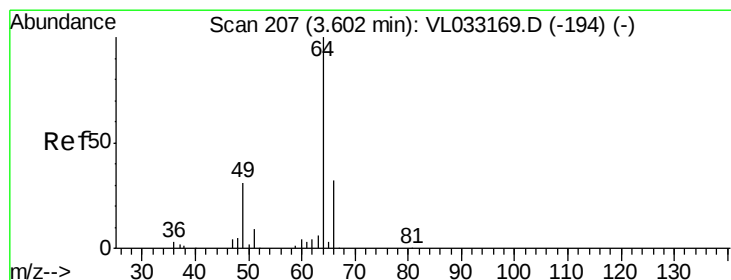
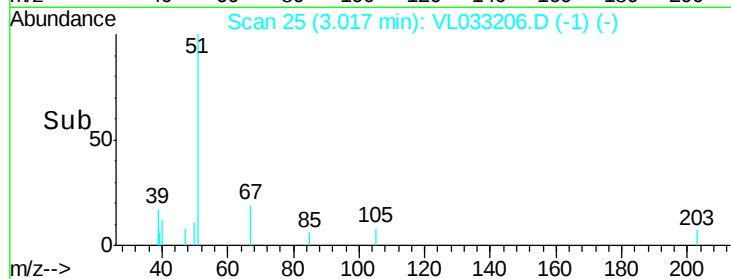
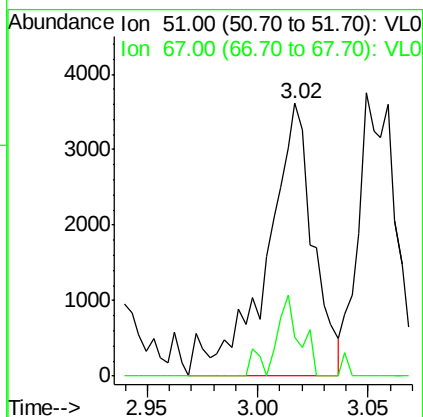
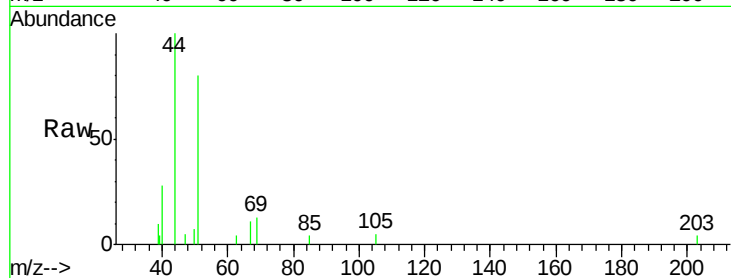
Ion 87.00 (86.70 to 87.70): VL0





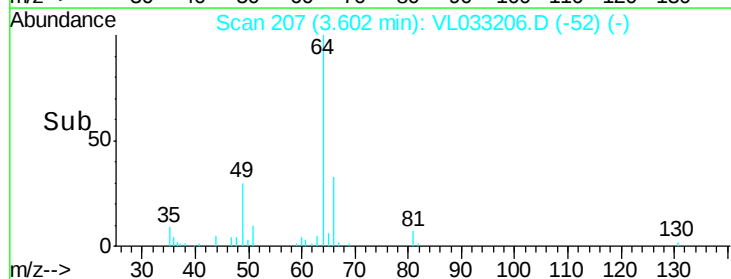
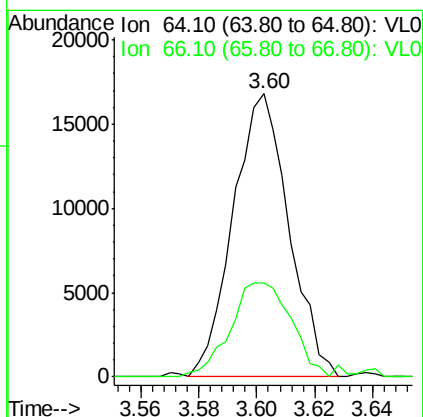
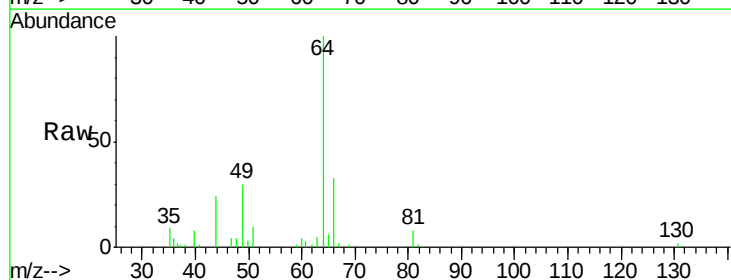
#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033206.D
Acq: 14 Feb 2019 20:16

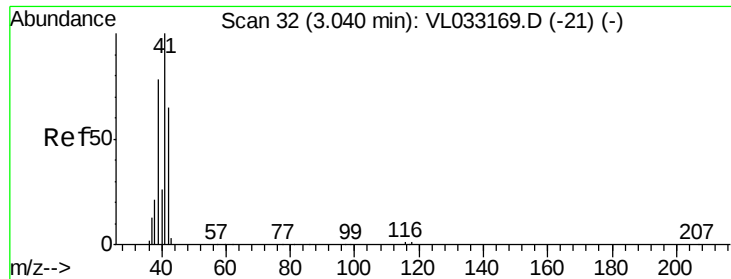
Tgt Ion: 51 Resp: 5274
Ion Ratio Lower Upper
51 100
67 15.9 14.0 21.0



#7
Chloroethane
Concen: 1.092 ppbv
RT: 3.60 min Scan# 207
Delta R.T. -0.00 min
Lab File: VL033206.D
Acq: 14 Feb 2019 20:16

Tgt Ion: 64 Resp: 22449
Ion Ratio Lower Upper
64 100
66 33.3 26.0 39.0





#9

Propene

Concen: 0.084 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033206.D

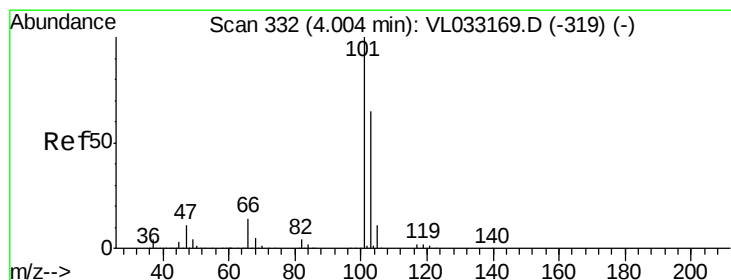
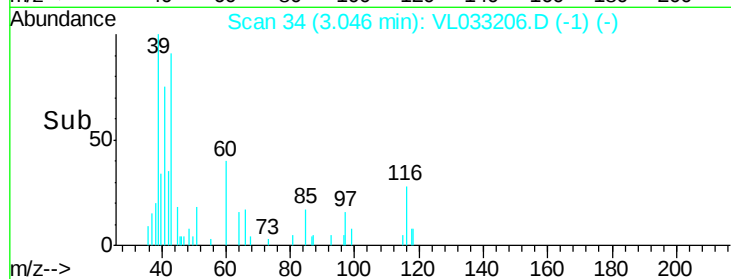
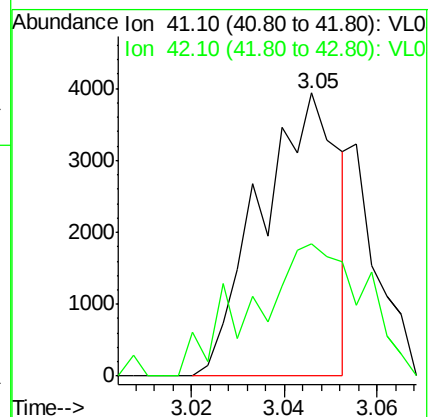
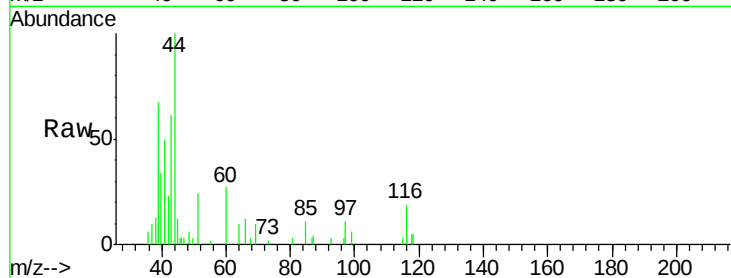
Acq: 14 Feb 2019 20:16

Tgt Ion: 41 Resp: 4617

Ion Ratio Lower Upper

41 100

42 68.7 55.0 82.6



#11

Trichlorofluoromethane

Concen: 0.104 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033206.D

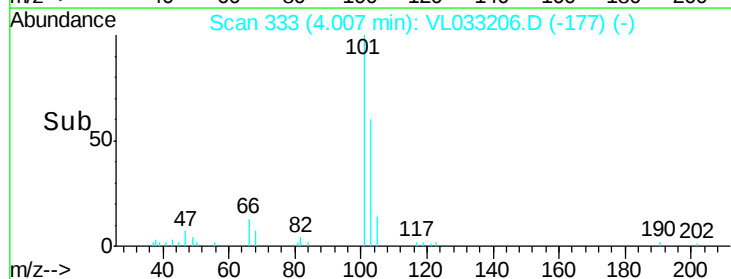
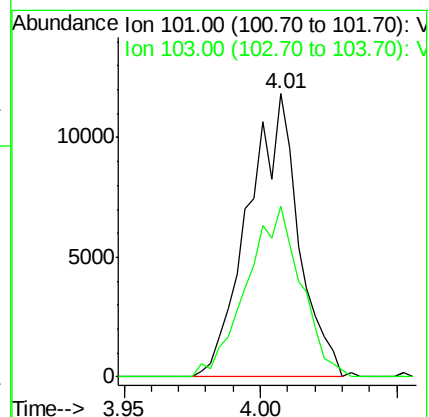
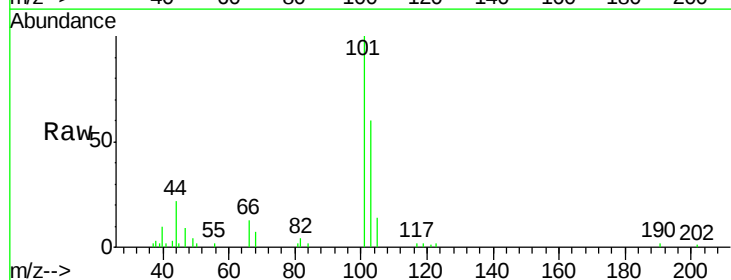
Acq: 14 Feb 2019 20:16

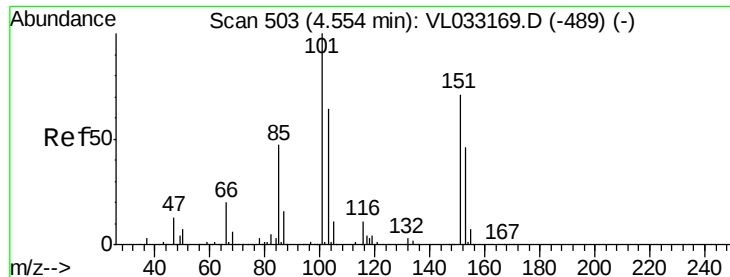
Tgt Ion: 101 Resp: 15215

Ion Ratio Lower Upper

101 100

103 60.2 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.428 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033206.D

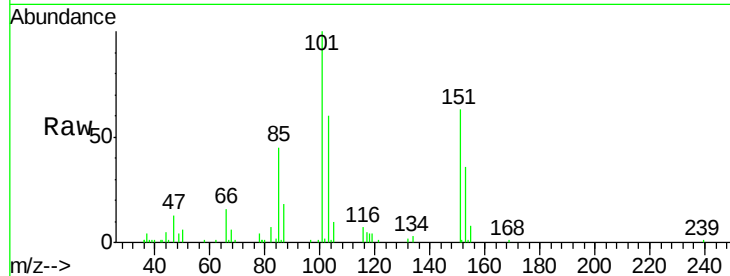
Acq: 14 Feb 2019 20:16

Tgt Ion: 101 Resp: 43455

Ion Ratio Lower Upper

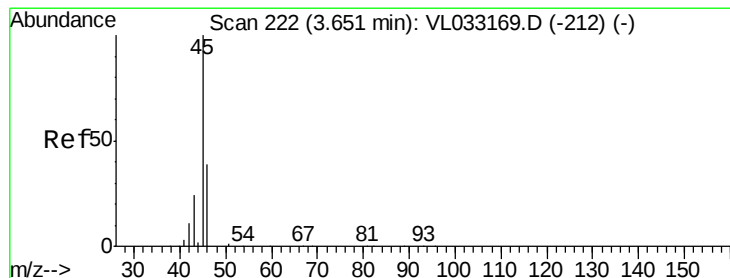
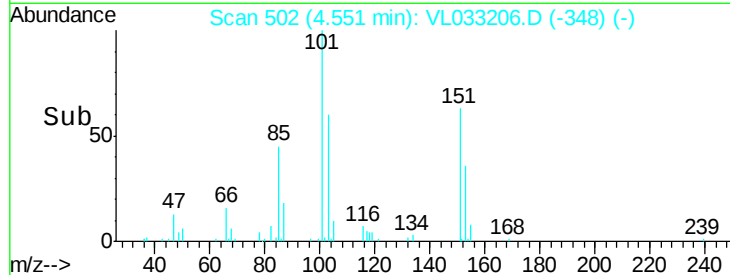
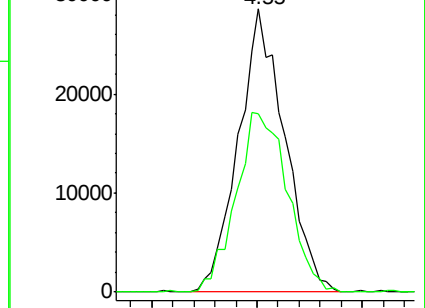
101 100

151 70.9 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: 0.709 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033206.D

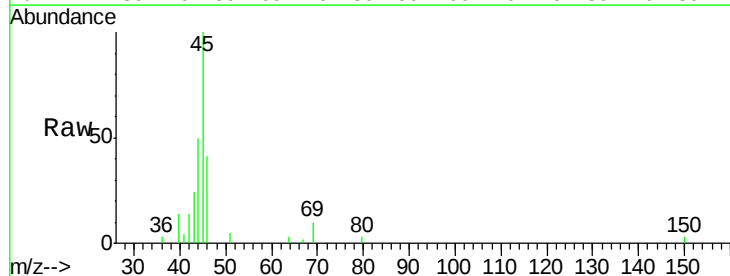
Acq: 14 Feb 2019 20:16

Tgt Ion: 45 Resp: 13014

Ion Ratio Lower Upper

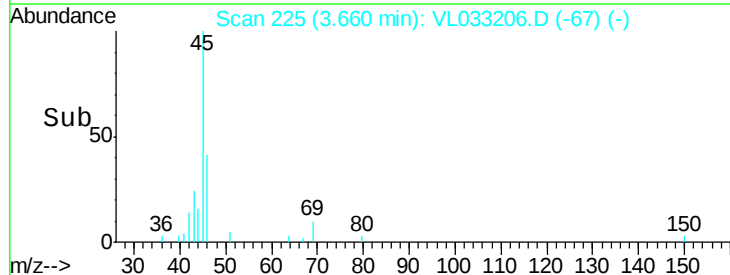
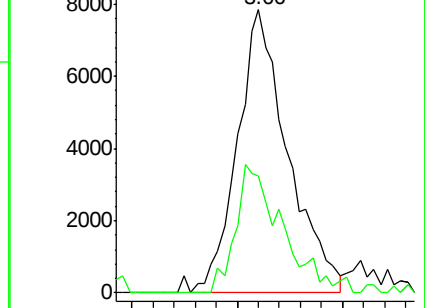
45 100

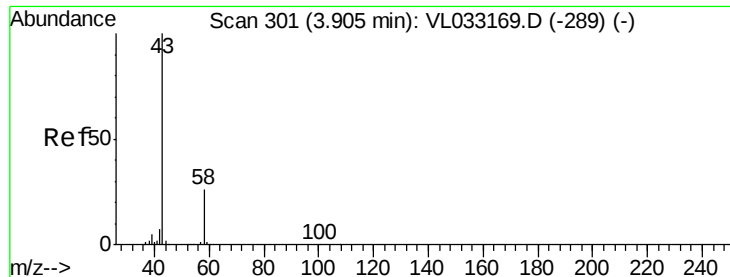
46 42.6 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.758 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033206.D

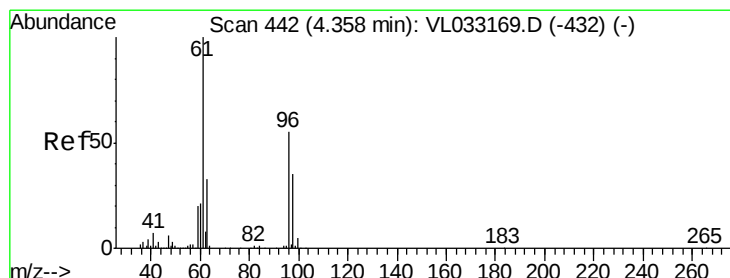
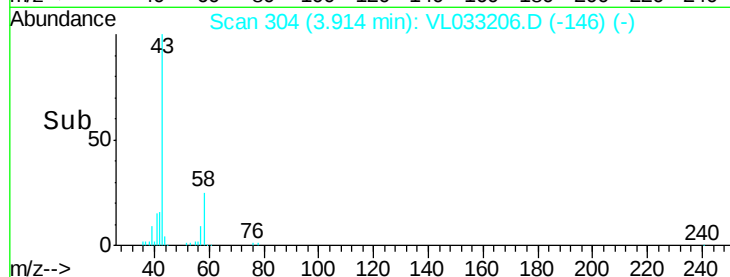
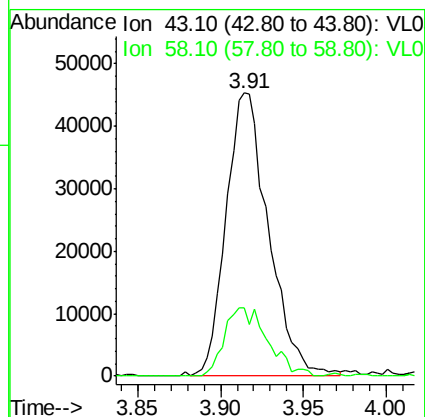
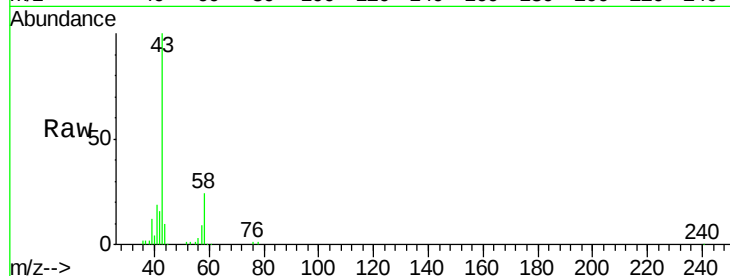
Acq: 14 Feb 2019 20:16

Tgt Ion: 43 Resp: 80855

Ion Ratio Lower Upper

43 100

58 24.8 21.1 31.7



#17

tert-Butyl alcohol

Concen: 0.137 ppbv

RT: 4.04 min Scan# 343

Delta R.T. -0.32 min

Lab File: VL033206.D

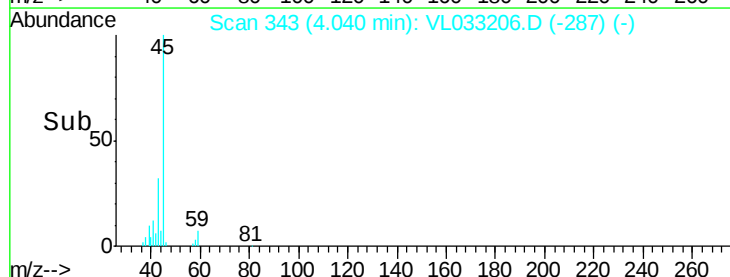
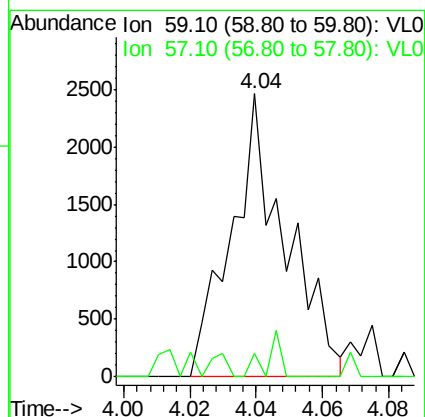
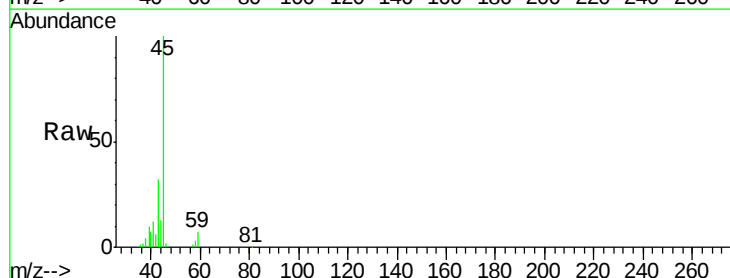
Acq: 14 Feb 2019 20:16

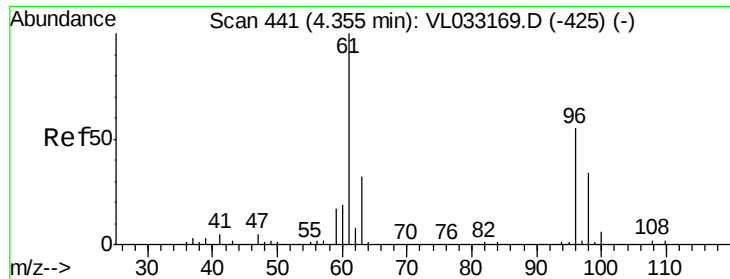
Tgt Ion: 59 Resp: 2789

Ion Ratio Lower Upper

59 100

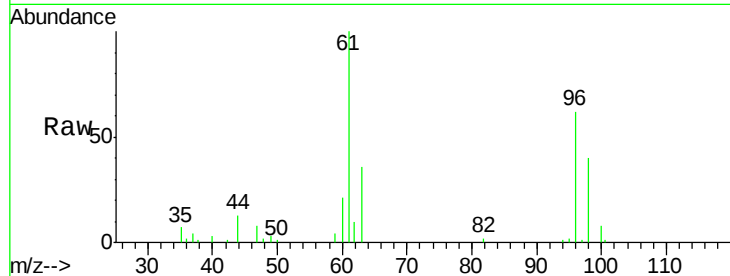
57 11.2 7.6 11.4



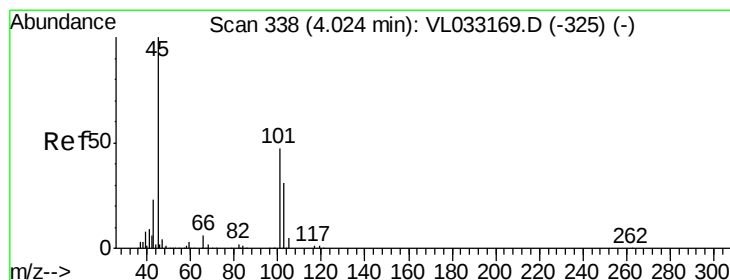
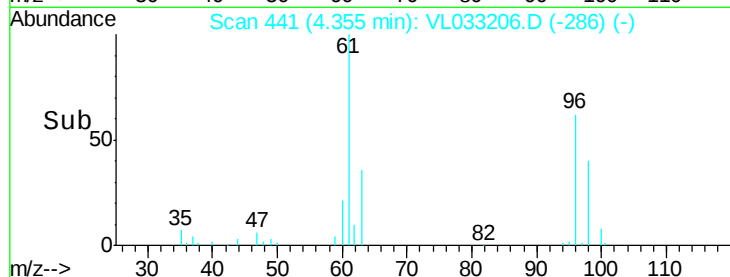
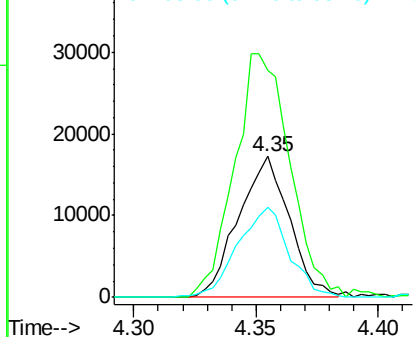


#18
 1,1-Dichloroethene
 Concen: 0.550 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VL033206.D
 Acq: 14 Feb 2019 20:16

Tgt Ion: 96 Resp: 25003
 Ion Ratio Lower Upper
 96 100
 61 161.0 145.0 217.6
 98 63.2 50.0 75.0

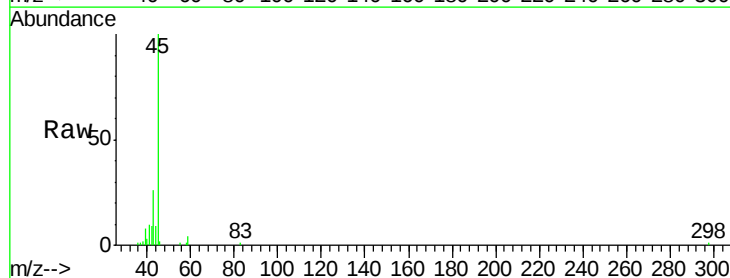


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

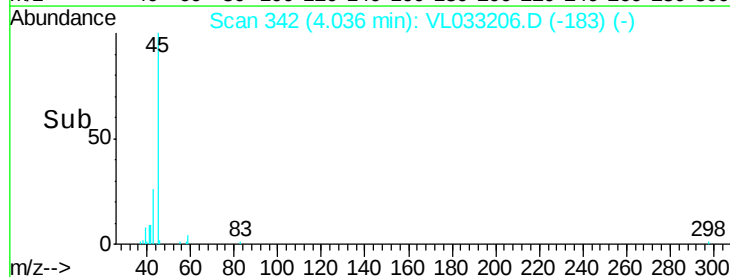
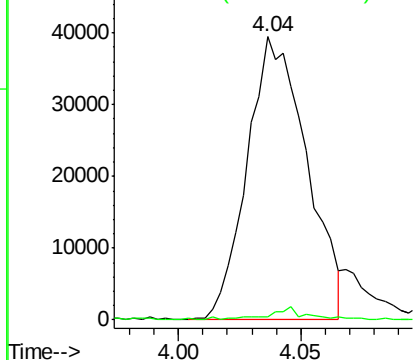


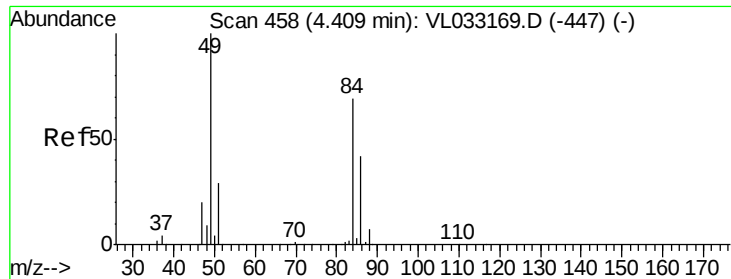
#19
 Isopropyl Alcohol
 Concen: 0.925 ppbv
 RT: 4.04 min Scan# 342
 Delta R.T. 0.01 min
 Lab File: VL033206.D
 Acq: 14 Feb 2019 20:16

Tgt Ion: 45 Resp: 66944
 Ion Ratio Lower Upper
 45 100
 58 3.1 1.5 2.3#



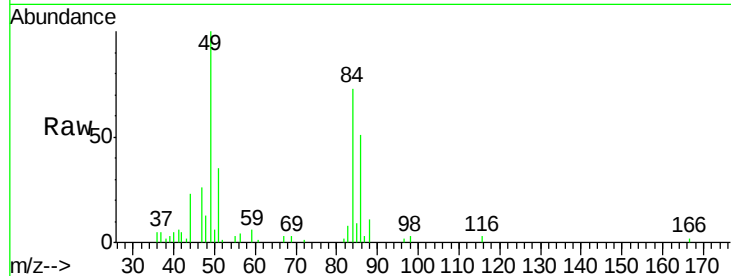
Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0



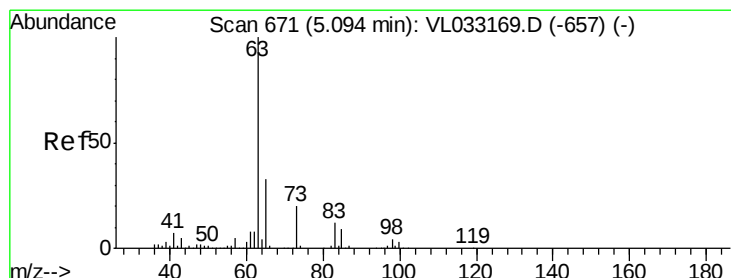
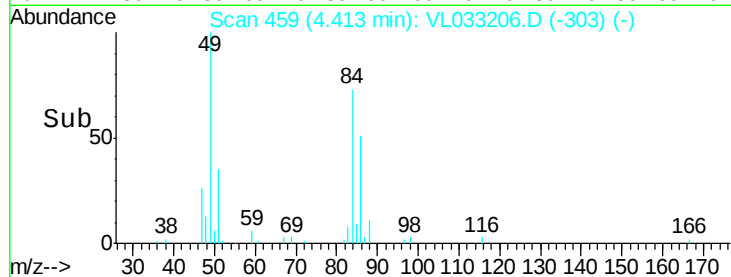
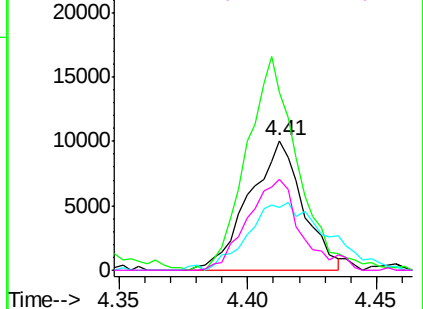


#20
Methylene Chloride
Concen: 0.345 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033206.D
Acq: 14 Feb 2019 20:16

Tgt Ion:	84	Resp:	14622
Ion	Ratio	Lower	Upper
84	100		
49	137.4	115.8	173.8
51	45.3	33.0	49.6
86	70.4	48.2	72.2

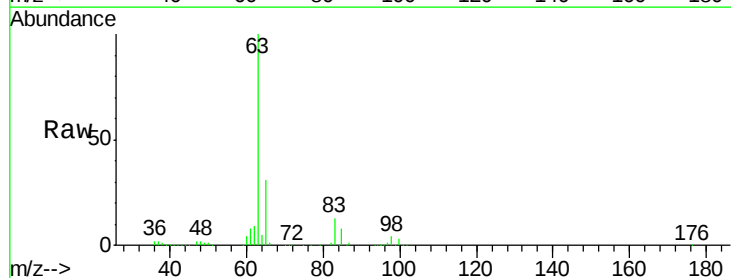


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

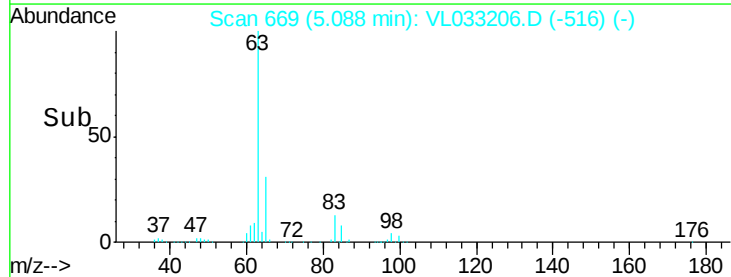
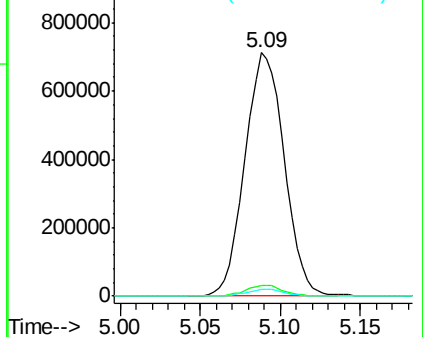


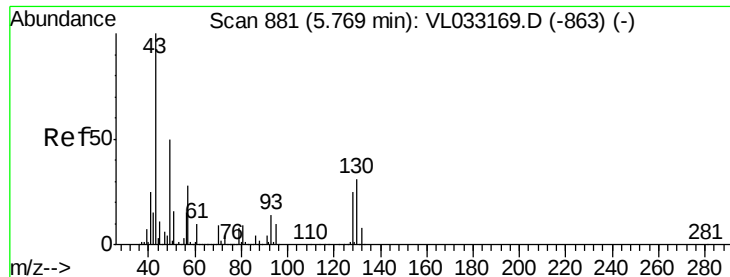
#24
1,1-Dichloroethane
Concen: 9.153 ppbv
RT: 5.09 min Scan# 669
Delta R.T. -0.01 min
Lab File: VL033206.D
Acq: 14 Feb 2019 20:16

Tgt Ion:	63	Resp:	1197059
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.1	6.5
100	2.5	1.4	4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.054 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

Tgt Ion: 43 Resp: 13061

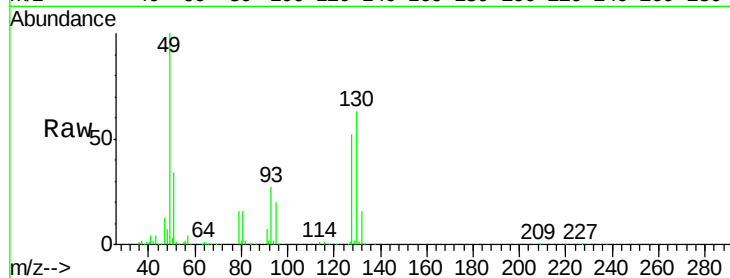
Ion Ratio Lower Upper

43 100

45 3.1 7.9 11.9#

61 1.3 7.5 11.3#

70 2.1 5.8 8.8#

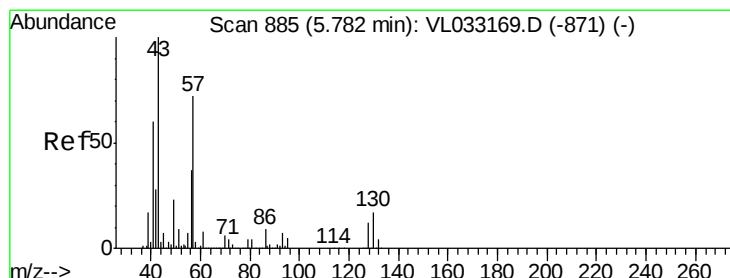
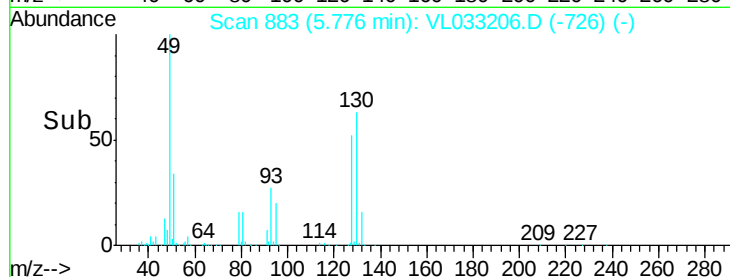
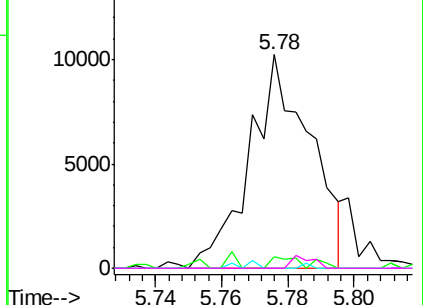


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.076 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.00 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

Tgt Ion: 57 Resp: 8529

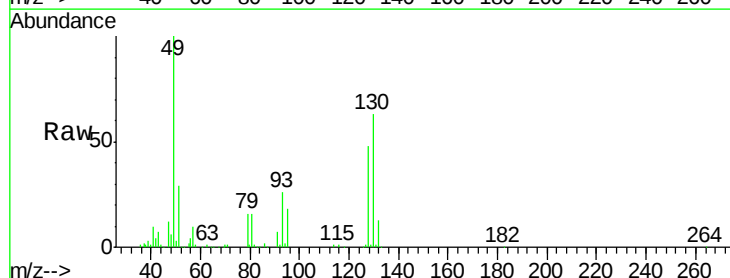
Ion Ratio Lower Upper

57 100

41 214.4 69.4 104.2#

43 170.2 176.7 265.1#

56 118.6 41.4 62.0#

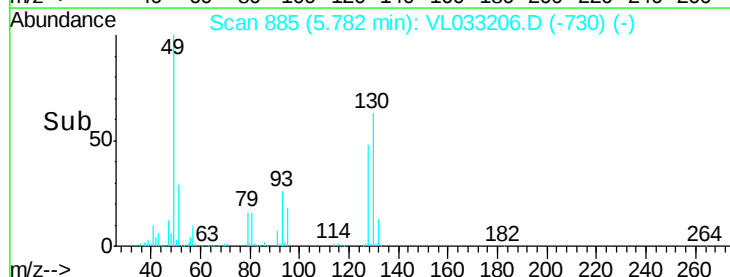
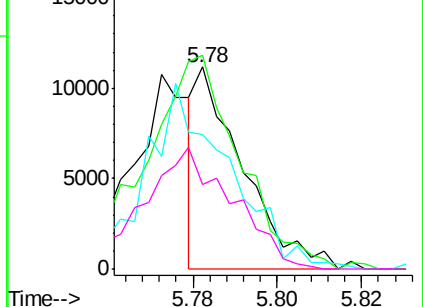


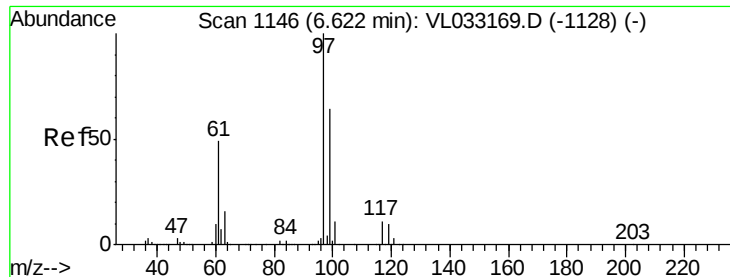
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#32

1,1,1-Trichloroethane

Concen: 33.773 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

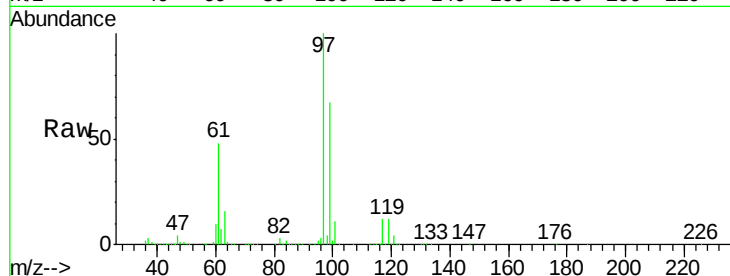
Tgt Ion: 97 Resp: 6417604

Ion Ratio Lower Upper

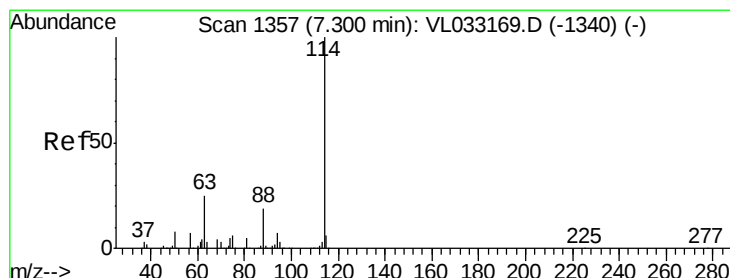
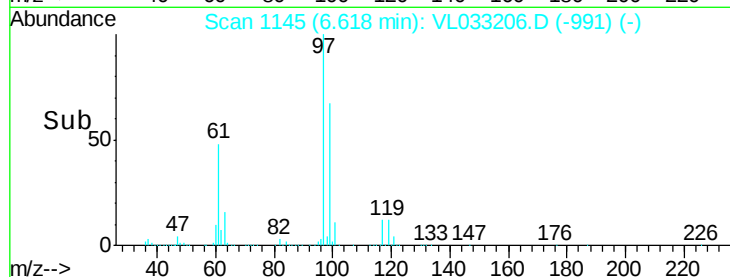
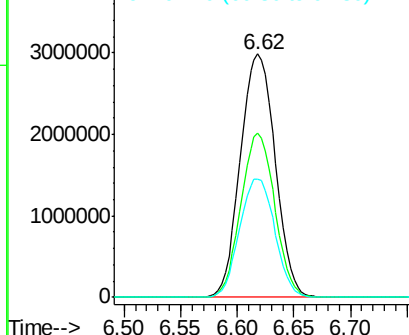
97 100

99 65.7 51.4 77.2

61 49.3 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

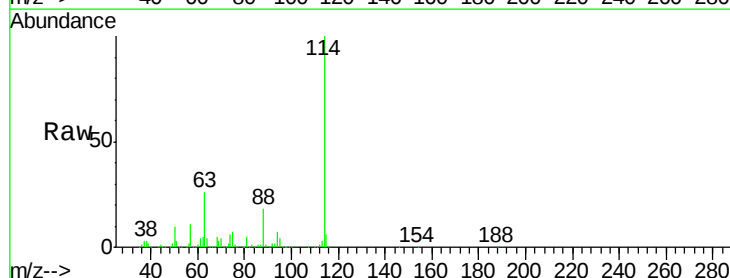
Tgt Ion: 114 Resp: 2181372

Ion Ratio Lower Upper

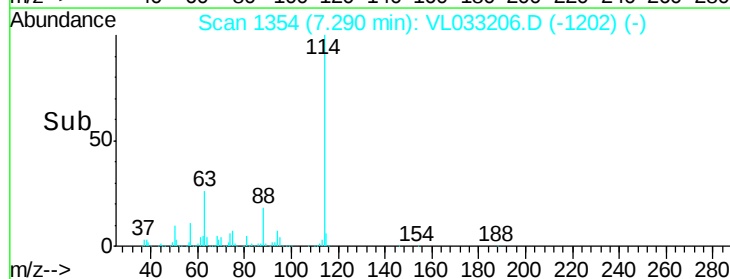
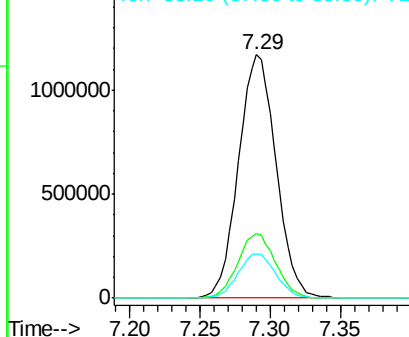
114 100

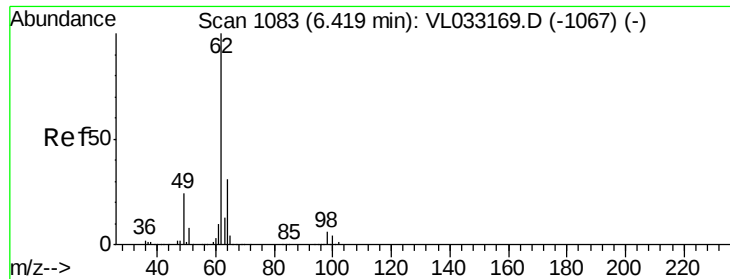
63 26.8 20.8 31.2

88 18.4 14.6 22.0



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





#37

1,2-Dichloroethane

Concen: 3.701 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.20 min

Lab File: VL033206.D

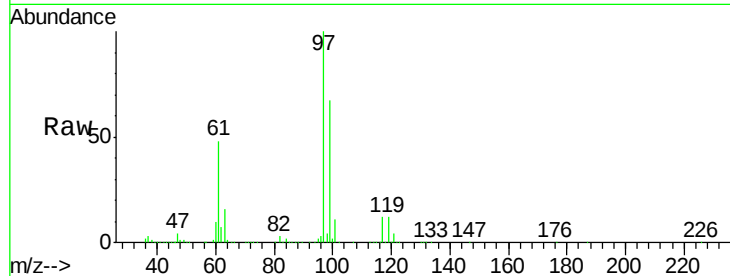
Acq: 14 Feb 2019 20:16

Tgt Ion: 62 Resp: 453454

Ion Ratio Lower Upper

62 100

98 64.2 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

250000

200000

150000

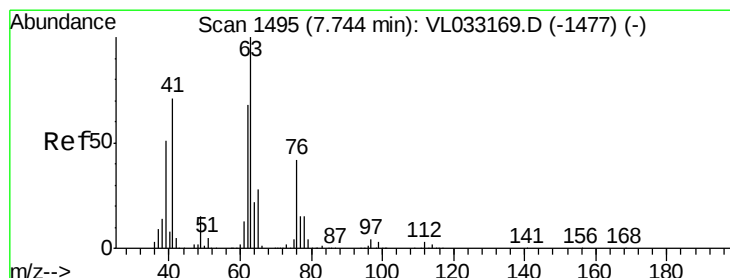
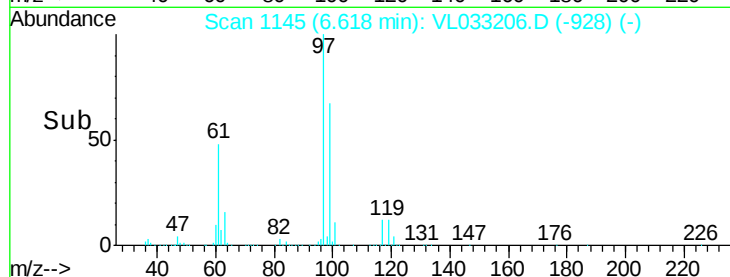
100000

50000

0

6.55 6.60 6.65

Time-->



#39

1,2-Dichloropropane

Concen: 6.650 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

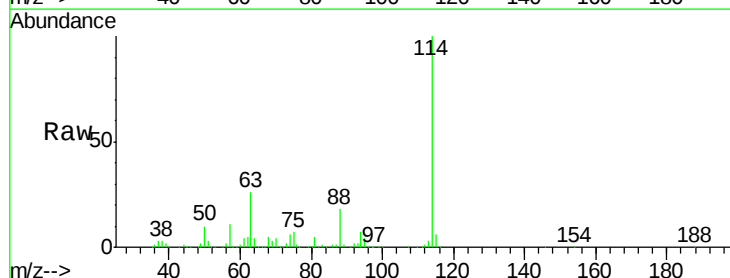
Tgt Ion: 63 Resp: 580621

Ion Ratio Lower Upper

63 100

41 0.0 56.4 84.6#

62 17.1 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

400000

300000

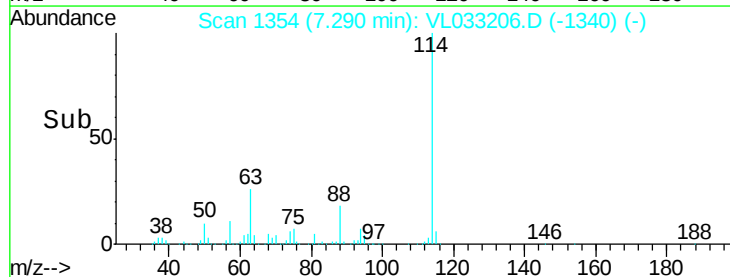
200000

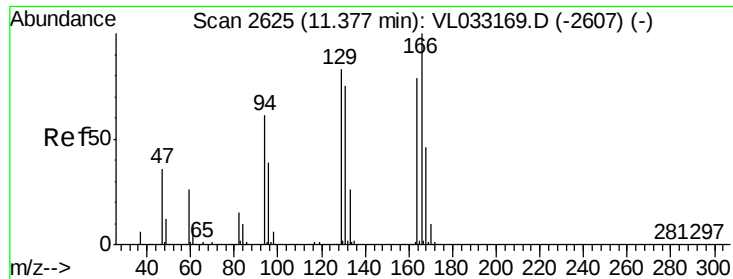
100000

0

7.20 7.25 7.30 7.35

Time-->





#52

Tetrachloroethene

Concen: 0.141 ppbv

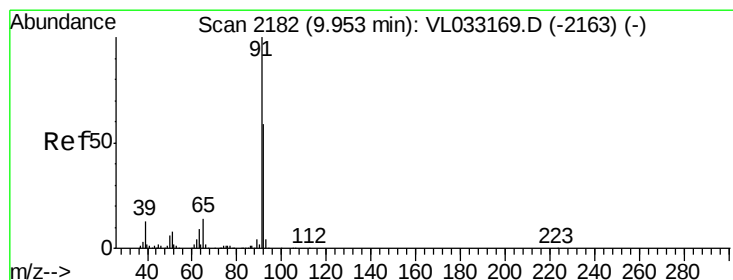
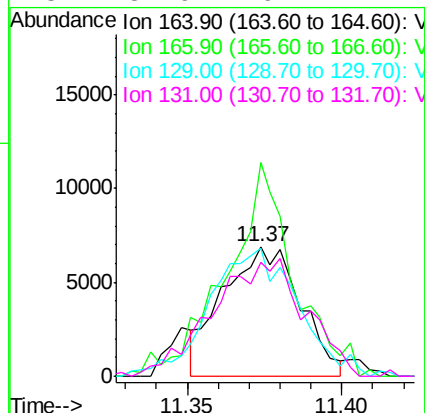
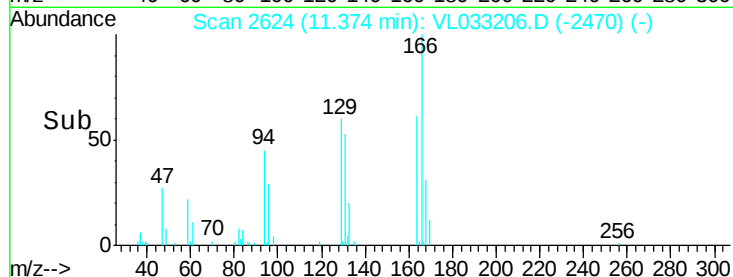
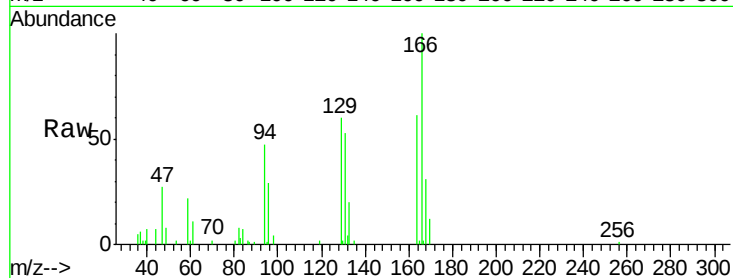
RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

Tgt Ion:	164	Resp:	11953
Ion	Ratio	Lower	Upper
164	100		
166	170.8	100.9	151.3#
129	102.1	83.9	125.9
131	84.6	76.2	114.2



#53

Toluene

Concen: 0.040 ppbv

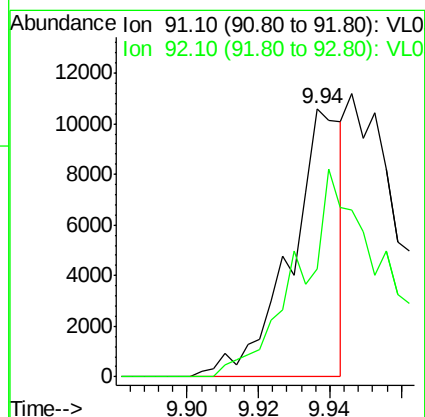
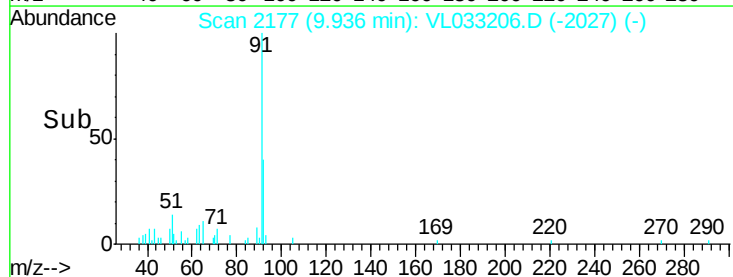
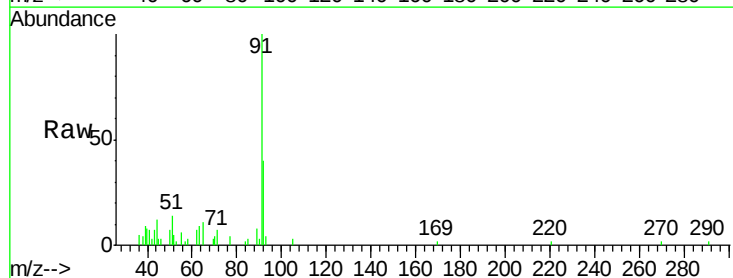
RT: 9.94 min Scan# 2177

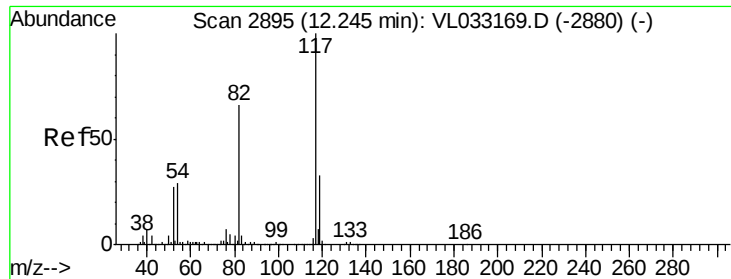
Delta R.T. -0.02 min

Lab File: VL033206.D

Acq: 14 Feb 2019 20:16

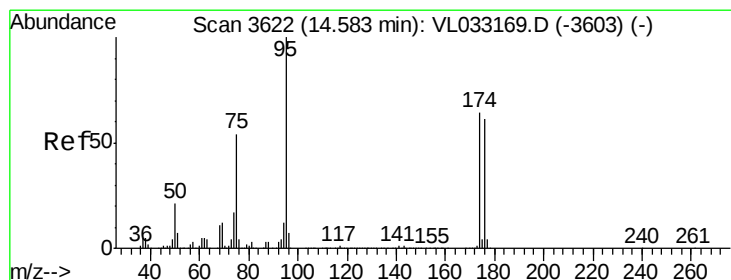
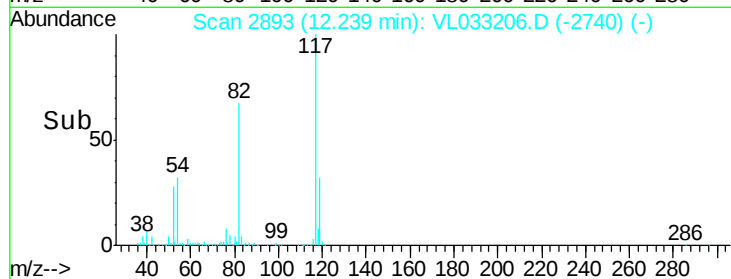
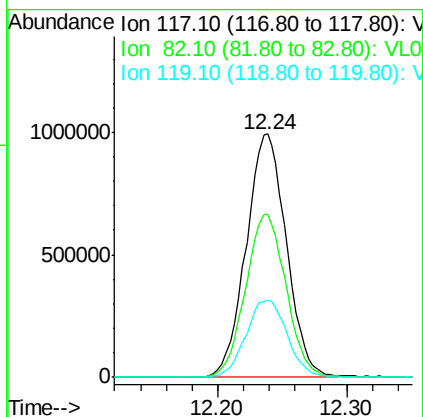
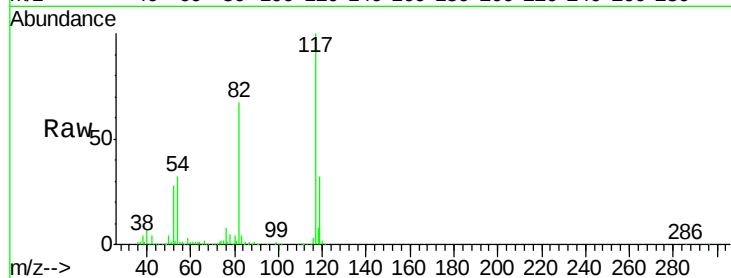
Tgt Ion:	91	Resp:	10529
Ion	Ratio	Lower	Upper
91	100		
92	126.5	48.0	72.0#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033206.D
Acq: 14 Feb 2019 20:16

Tgt Ion: 117 Resp: 2154101
Ion Ratio Lower Upper
117 100
82 67.9 49.5 74.3
119 32.7 24.4 36.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.481 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033206.D
Acq: 14 Feb 2019 20:16

Tgt Ion: 95 Resp: 1738690
Ion Ratio Lower Upper
95 100
174 64.0 51.2 76.8
175 4.5 3.8 5.6

