

Data File : VL033251.D
Acq On : 6 Mar 2019 11:04
Operator : SY/AP
Sample : 0.4 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 04:32:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019
QLast Update : Wed Mar 06 08:43:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	873666	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2219952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2178957	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1689629 10.22 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.20%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	77328	0.627 ppbv	93
3) Chlorodifluoromethane	3.02	51	46091	0.461 ppbv	99
4) Chloromethane	3.17	50	23555	0.458 ppbv	99
5) Vinyl Chloride	3.29	62	22814	0.395 ppbv	94
6) Bromomethane	3.52	94	15177	0.460 ppbv	93
7) Chloroethane	3.61	64	8981	0.466 ppbv #	76
8) Dichlorotetrafluoroethane	3.22	85	60767	0.498 ppbv	98
9) Propene	3.04	41	17222	0.387 ppbv #	81
10) Heptane	8.25	43	52768	0.435 ppbv	97
11) Trichlorofluoromethane	4.01	101	62404	0.431 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.56	101	44935	0.478 ppbv	97
13) Ethanol	3.66	45	7617	0.572 ppbv	89
14) Bromoethene	3.80	108	7766	0.196 ppbv #	1
15) Acetone	3.92	43	57553	0.512 ppbv	97
16) 1,3-Butadiene	3.36	39	10103	0.225 ppbv #	6
17) tert-Butyl alcohol	4.35	59	713	0.039 ppbv #	74
18) 1,1-Dichloroethene	4.35	96	18110	0.433 ppbv	86
19) Isopropyl Alcohol	4.05	45	19108	0.286 ppbv #	86
20) Methylene Chloride	4.41	84	13116	0.308 ppbv #	84
21) Allyl Chloride	4.48	41	17963	0.286 ppbv #	52
22) trans-1,2-Dichloroethene	4.97	96	16959	0.397 ppbv	87
23) Vinyl Acetate	5.16	43	59768	0.360 ppbv #	98
24) 1,1-Dichloroethane	5.09	63	50714	0.429 ppbv	98
25) Ethyl Acetate	5.78	43	82807	0.402 ppbv	98
26) Hexane	5.79	57	15426	0.160 ppbv #	1
27) Carbon Disulfide	4.62	76	36461	0.393 ppbv #	79
28) Methyl tert-Butyl Ether	5.13	73	45299	0.341 ppbv	96
29) Chloroform	5.84	83	63937	0.427 ppbv	100
30) Cyclohexane	7.25	84	26506	0.367 ppbv #	87
31) cis-1,2-Dichloroethene	5.64	61	34679	0.373 ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	62317	0.429 ppbv	95
34) 2-Butanone	5.35	43	50934	0.331 ppbv	99
35) Carbon Tetrachloride	7.13	117	66243	0.395 ppbv	92
36) Benzene	7.00	78	79664	0.382 ppbv	99
37) 1,2-Dichloroethane	6.41	62	54808	0.423 ppbv	100
38) Trichloroethene	7.96	130	30457	0.387 ppbv	97
39) 1,2-Dichloropropane	7.73	63	16422	0.202 ppbv	94
40) 1,4-Dioxane	7.96	88	72	0.002 ppbv #	1
41) Tetrahydrofuran	6.18	42	30286	0.358 ppbv	97
42) Bromodichloromethane	7.92	83	67611	0.369 ppbv #	84
43) Methyl Methacrylate	8.14	69	15029	0.178 ppbv #	1

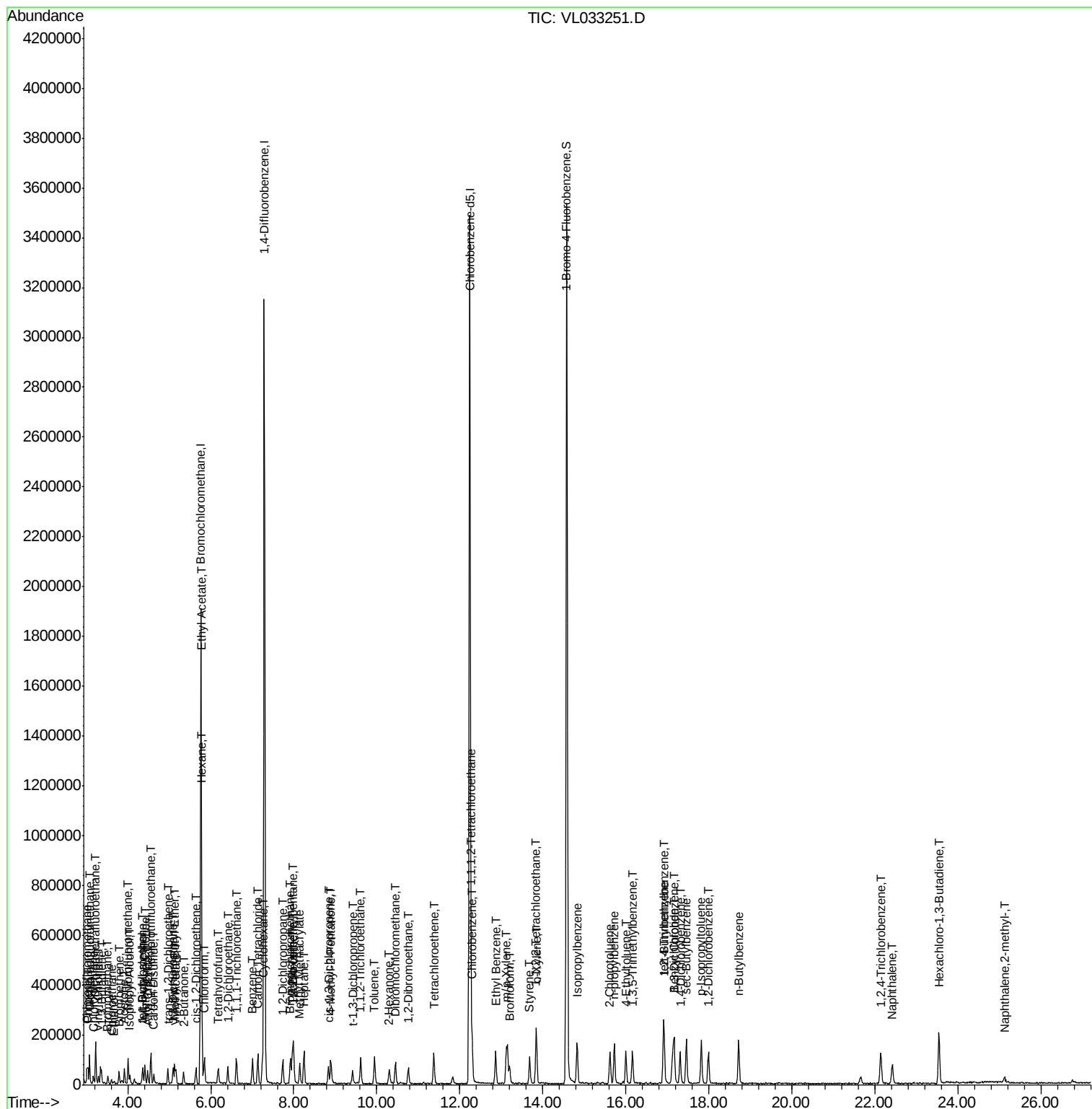
Data File : VL033251.D
Acq On : 6 Mar 2019 11:04
Operator : SY/AP
Sample : 0.4 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

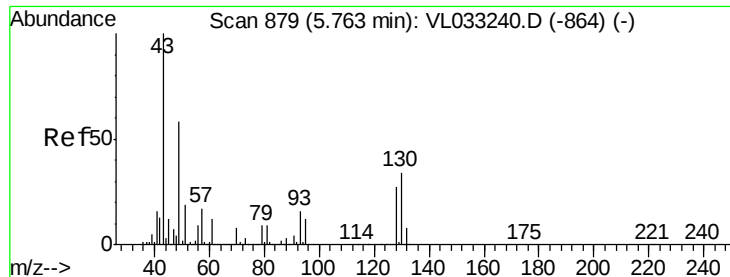
Quant Time: Mar 07 04:32:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019
QLast Update : Wed Mar 06 08:43:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	138506	0.376	ppbv	94
45) t-1,3-Dichloropropene	9.42	75	20164	0.198	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	36967	0.304	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	34501	0.394	ppbv	95
48) Dibromochloromethane	10.45	129	49712	0.351	ppbv	98
49) Bromoform	13.19	173	37760	0.333	ppbv	98
50) 4-Methyl-2-Pentanone	8.89	43	44332	0.195	ppbv #	58
51) 2-Hexanone	10.30	43	30654	0.180	ppbv #	50
52) Tetrachloroethene	11.37	164	21716	0.280	ppbv #	77
53) Toluene	9.95	91	77838	0.323	ppbv	98
54) 1,2-Dibromoethane	10.76	107	46550	0.350	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.28	131	40871	0.432	ppbv #	1
57) Chlorobenzene	12.30	112	73904	0.436	ppbv	95
58) Ethyl Benzene	12.86	91	106615	0.354	ppbv	97
59) m/p-Xylene	13.13	91	80505	0.313	ppbv #	32
60) o-Xylene	13.84	91	39503	0.161	ppbv #	10
61) Styrene	13.68	104	58947	0.342	ppbv	99
62) Isopropylbenzene	14.82	105	75494	0.221	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.83	83	34611	0.199	ppbv #	23
64) n-propylbenzene	15.71	120	16862	0.199	ppbv	65
65) tert-Butylbenzene	16.91	119	107772	0.370	ppbv	93
66) Benzyl Chloride	17.15	91	12817	0.114	ppbv #	70
67) sec-Butylbenzene	17.46	105	159579	0.384	ppbv	100
69) p-Isopropyltoluene	17.82	119	125100	0.372	ppbv	99
70) n-Butylbenzene	18.71	91	74662	0.203	ppbv #	38
71) 2-Chlorotoluene	15.61	91	40996	0.157	ppbv #	46
72) 4-Ethyltoluene	15.99	105	44979	0.168	ppbv #	56
73) 1,3,5-Trimethylbenzene	16.16	105	64394	0.251	ppbv	95
74) 1,2,4-Trimethylbenzene	16.93	105	104127	0.386	ppbv	90
75) 1,3-Dichlorobenzene	17.16	146	40844	0.259	ppbv #	48
76) 1,4-Dichlorobenzene	17.31	146	59318	0.379	ppbv	94
77) 1,2-Dichlorobenzene	17.99	146	63716	0.416	ppbv	98
78) Hexachloro-1,3-Butadiene	23.53	225	21628	0.199	ppbv #	18
79) Naphthalene	22.42	128	51221	0.155	ppbv #	93
80) Naphthalene,2-methyl-	25.13	142	11689	0.119	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	29515	0.178	ppbv #	12

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

Quant Time: Mar 07 04:32:33 2019
Quant Method : Z:\VQASRV\HPCHEM1\MSVOA_L\METHODS\VL030619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019
QLast Update : Wed Mar 06 08:43:44 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

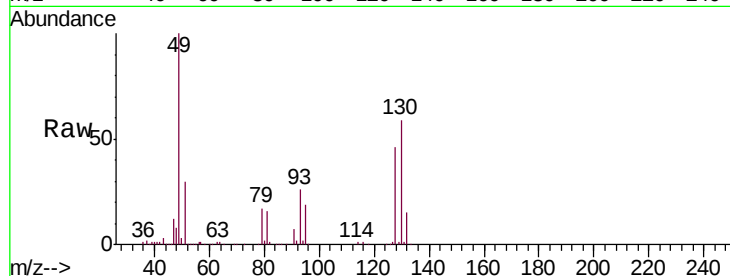
Tgt Ion: 49 Resp: 873666

Ion Ratio Lower Upper

49 100

128 45.6 22.9 68.8

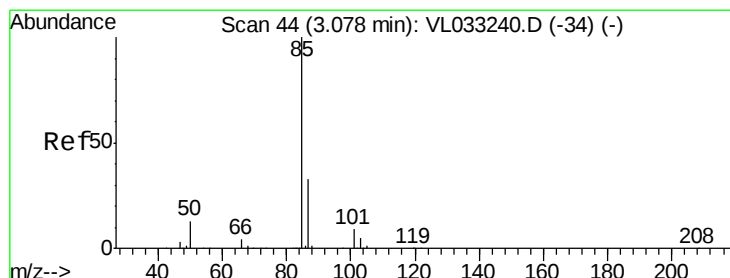
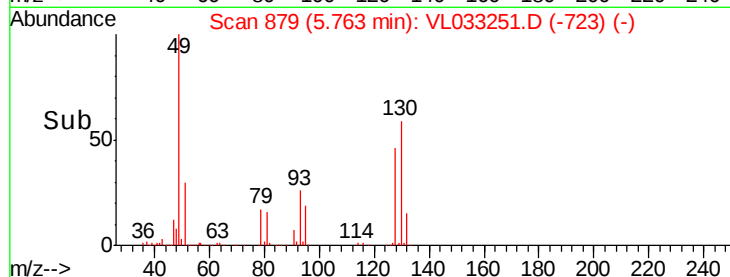
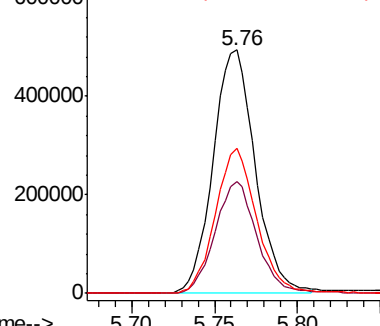
130 59.2 29.3 88.0



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: 0.627 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033251.D

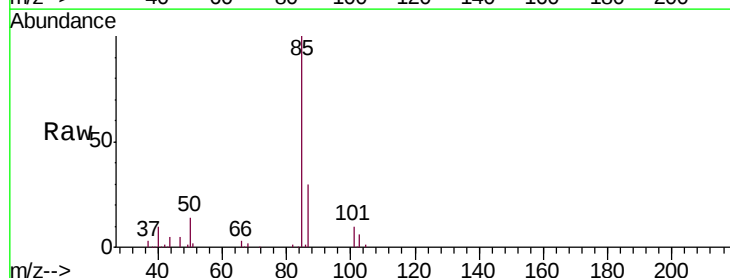
Acq: 6 Mar 2019 11:04

Tgt Ion: 85 Resp: 77328

Ion Ratio Lower Upper

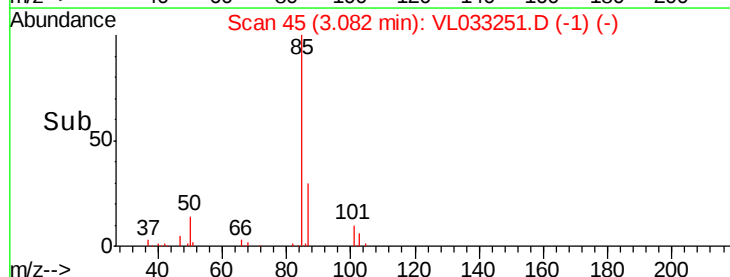
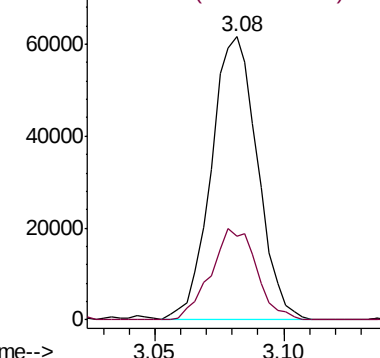
85 100

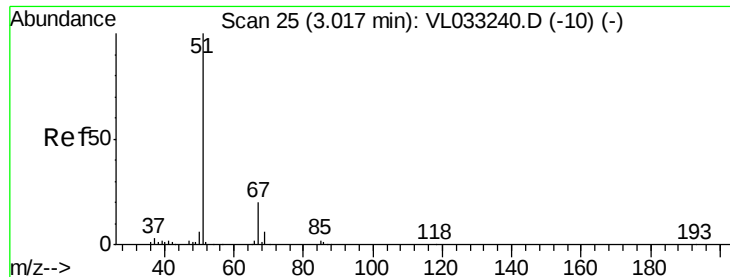
87 29.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.461 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033251.D

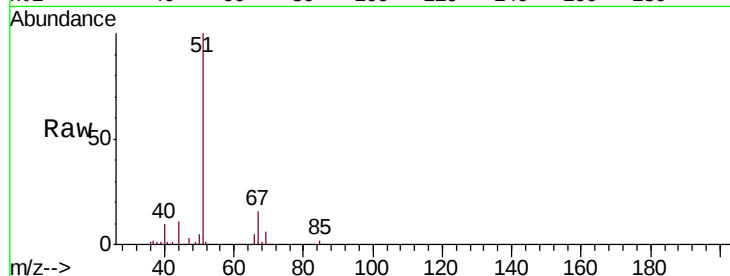
Acq: 6 Mar 2019 11:04

Tgt Ion: 51 Resp: 46091

Ion Ratio Lower Upper

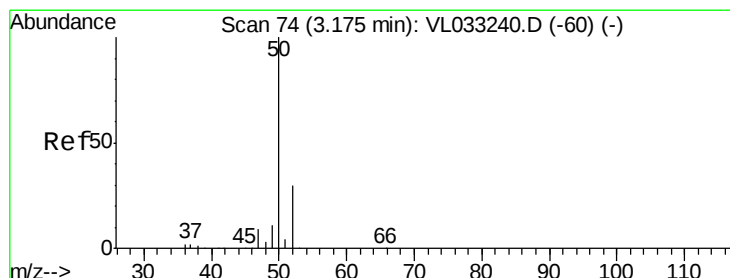
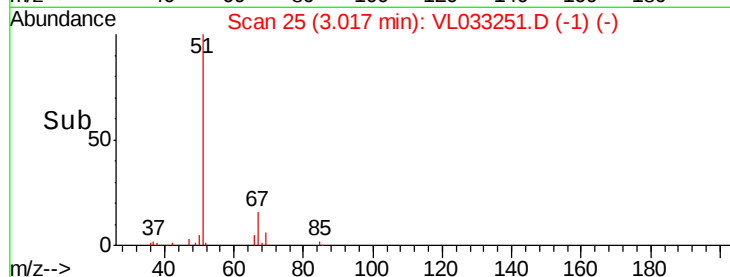
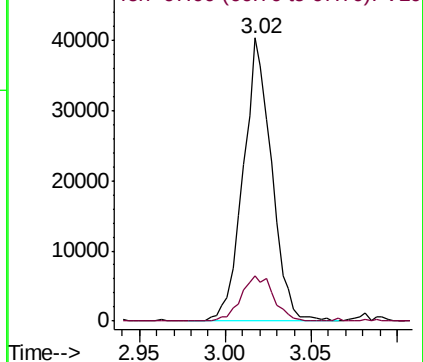
51 100

67 18.2 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.458 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033251.D

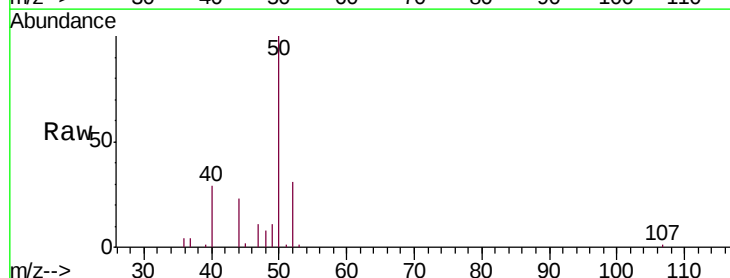
Acq: 6 Mar 2019 11:04

Tgt Ion: 50 Resp: 23555

Ion Ratio Lower Upper

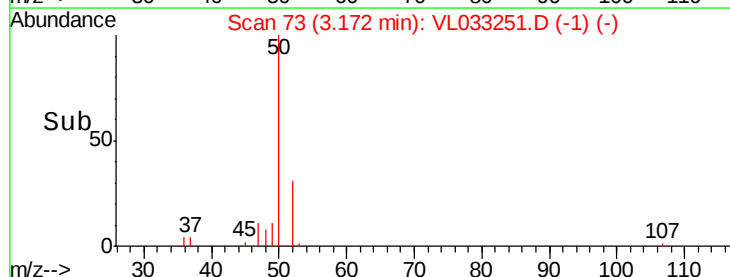
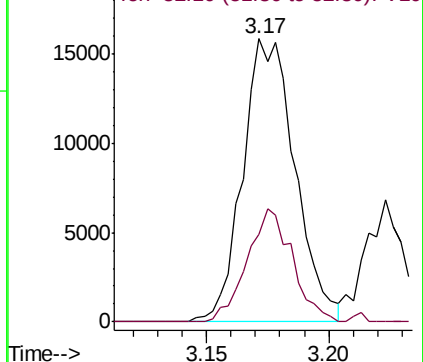
50 100

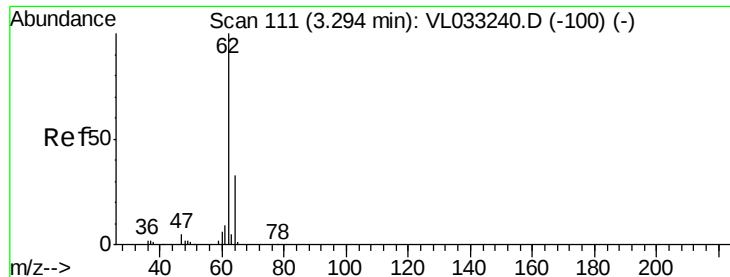
52 31.1 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.395 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033251.D

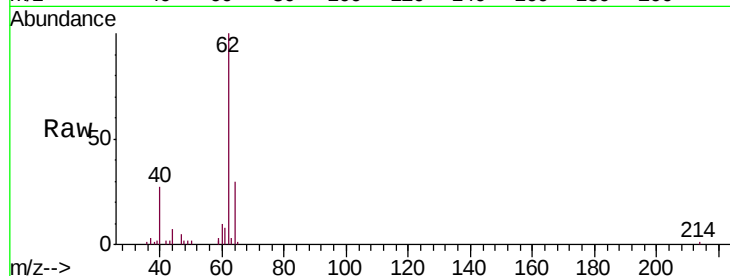
Acq: 6 Mar 2019 11:04

Tgt Ion: 62 Resp: 22814

Ion Ratio Lower Upper

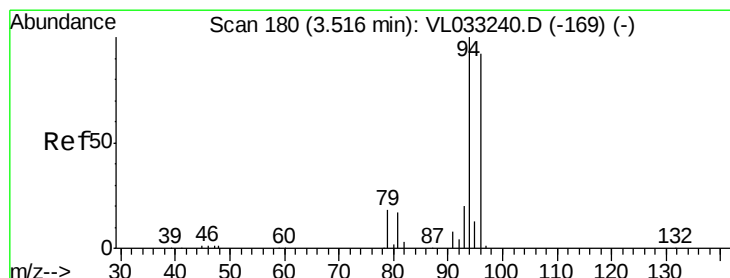
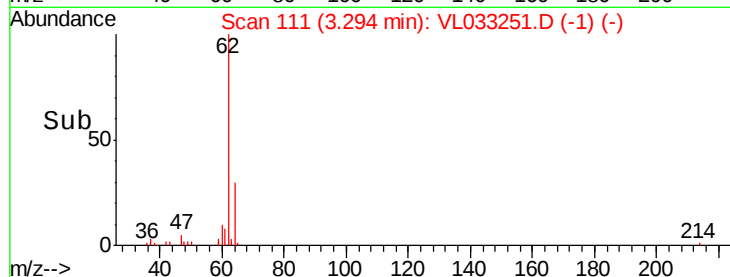
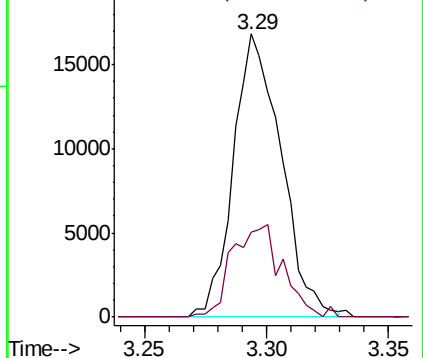
62 100

64 29.3 26.2 39.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.460 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033251.D

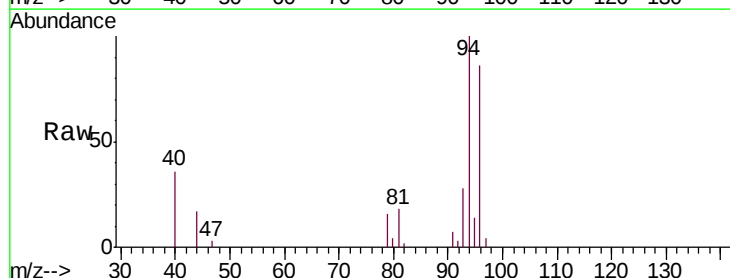
Acq: 6 Mar 2019 11:04

Tgt Ion: 94 Resp: 15177

Ion Ratio Lower Upper

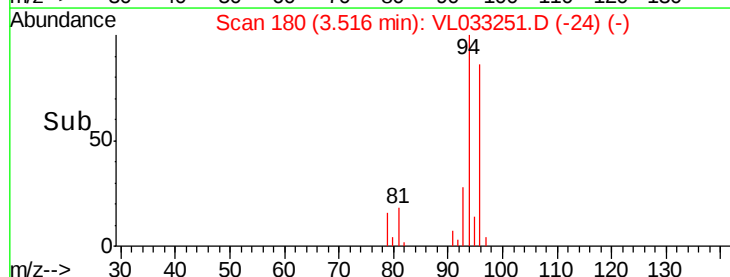
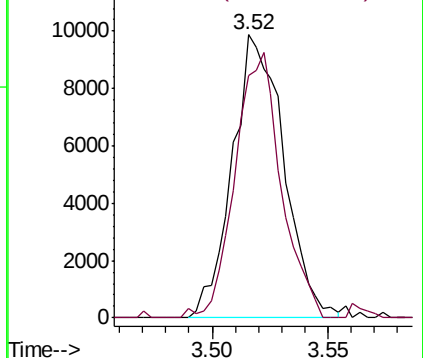
94 100

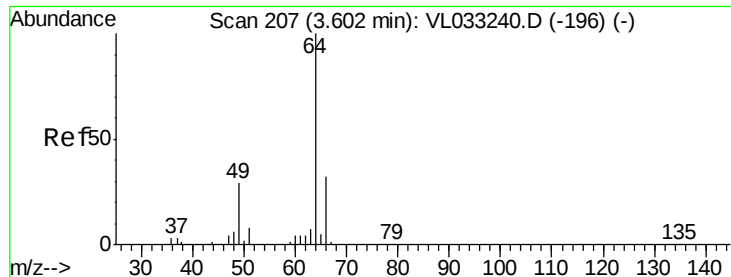
96 85.9 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.466 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL033251.D

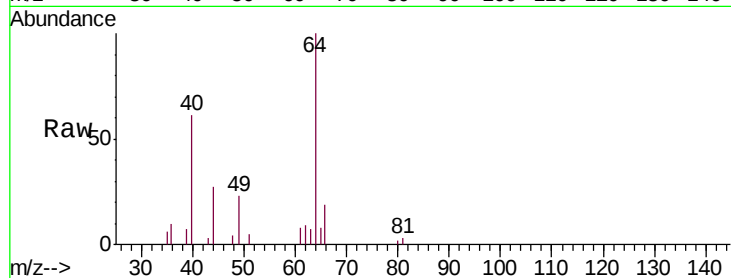
Acq: 6 Mar 2019 11:04

Tgt Ion: 64 Resp: 8981

Ion Ratio Lower Upper

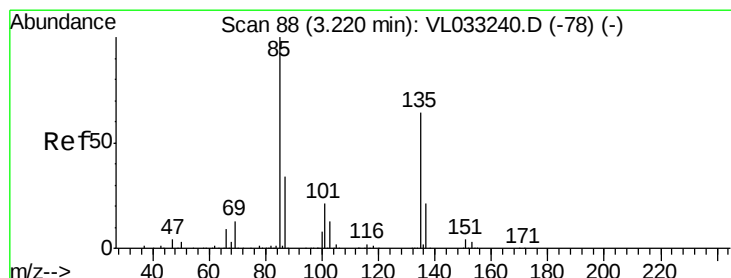
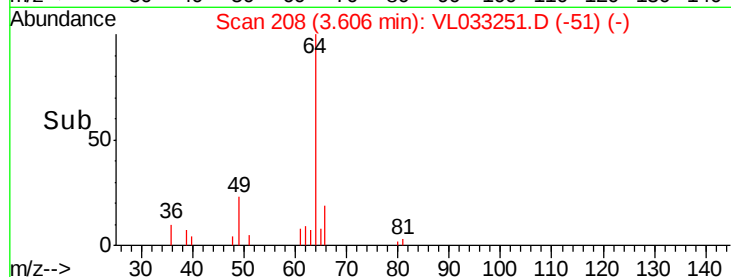
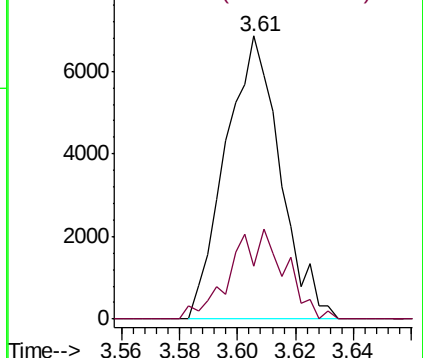
64 100

66 18.7 25.7 38.5#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.498 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033251.D

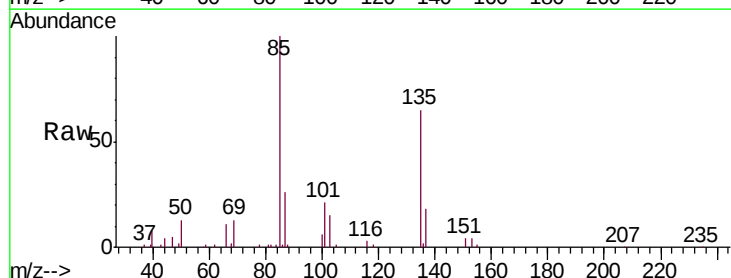
Acq: 6 Mar 2019 11:04

Tgt Ion: 85 Resp: 60767

Ion Ratio Lower Upper

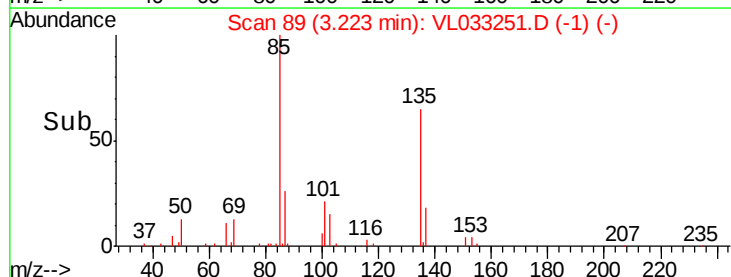
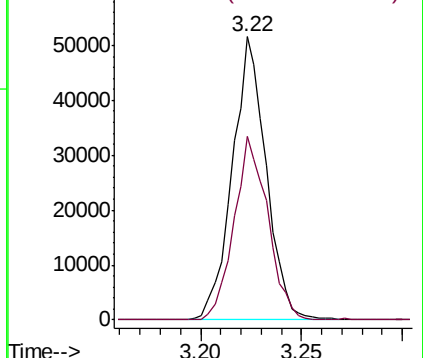
85 100

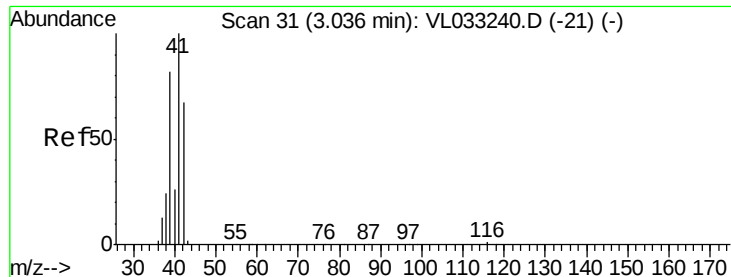
135 64.4 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.387 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033251.D

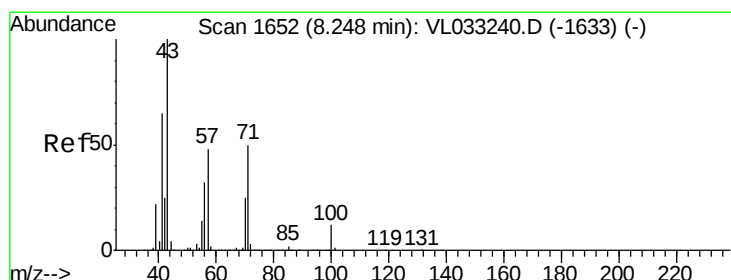
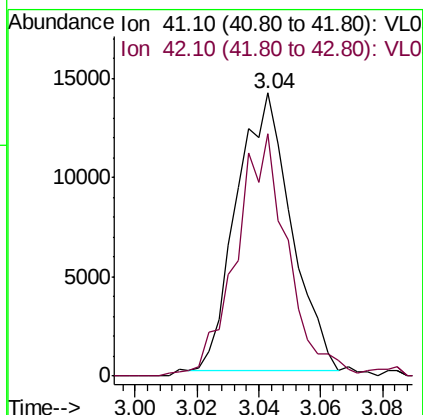
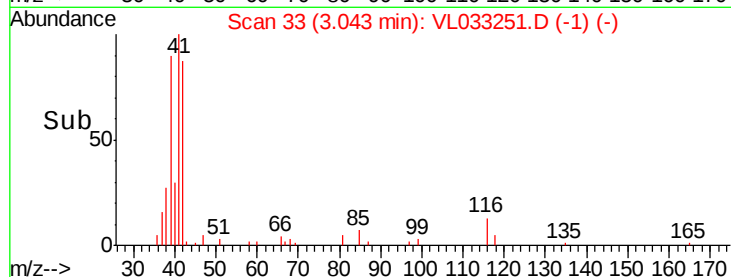
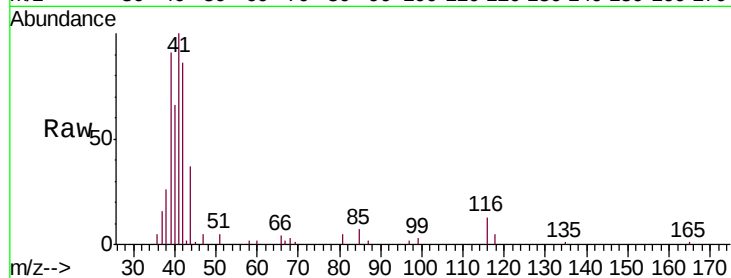
Acq: 6 Mar 2019 11:04

Tgt Ion: 41 Resp: 17222

Ion Ratio Lower Upper

41 100

42 84.3 55.3 82.9#



#10

Heptane

Concen: 0.435 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033251.D

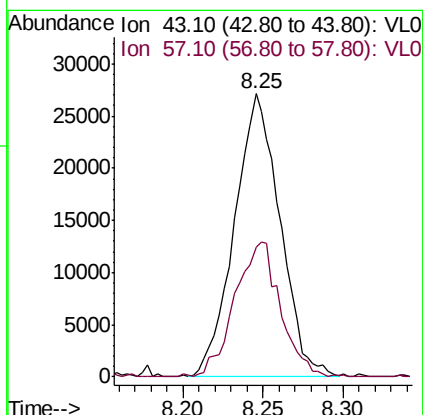
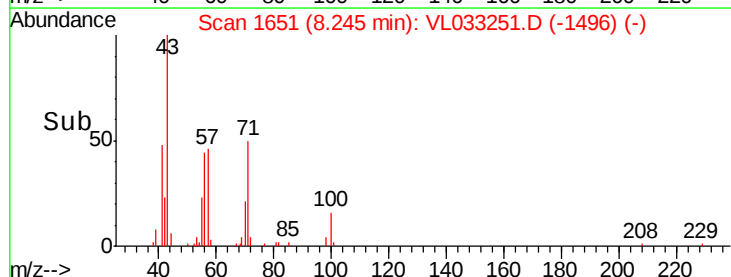
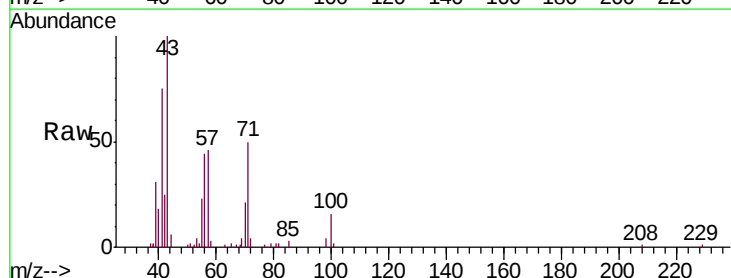
Acq: 6 Mar 2019 11:04

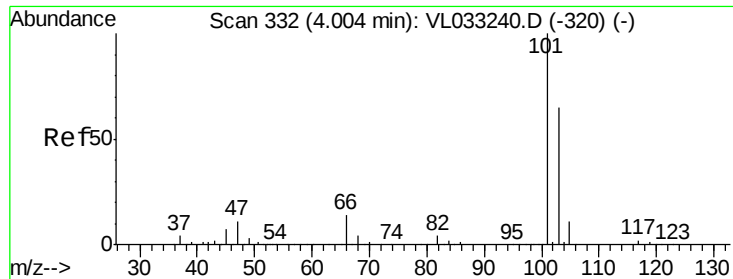
Tgt Ion: 43 Resp: 52768

Ion Ratio Lower Upper

43 100

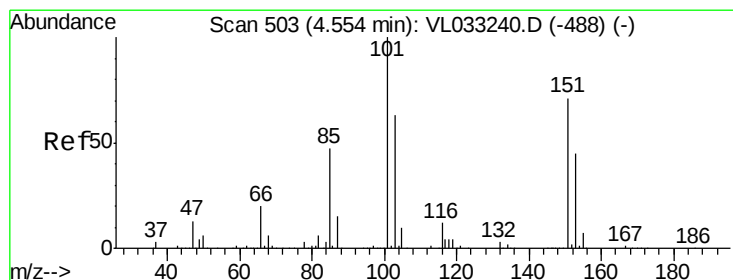
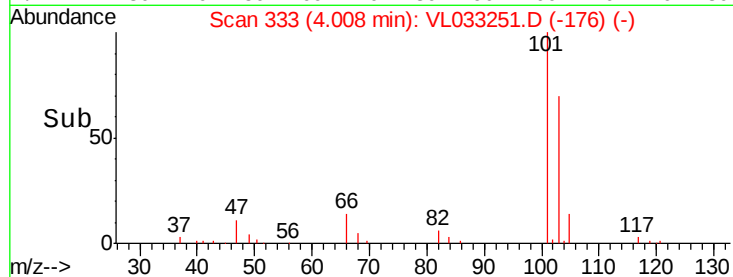
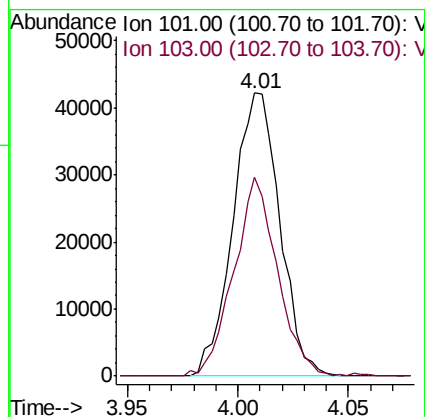
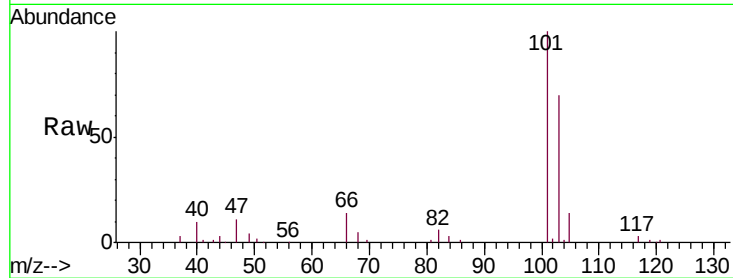
57 47.9 39.8 59.6





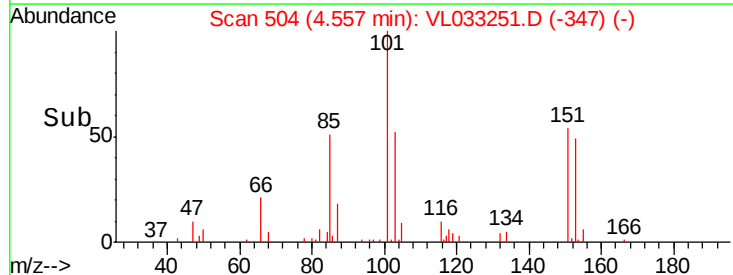
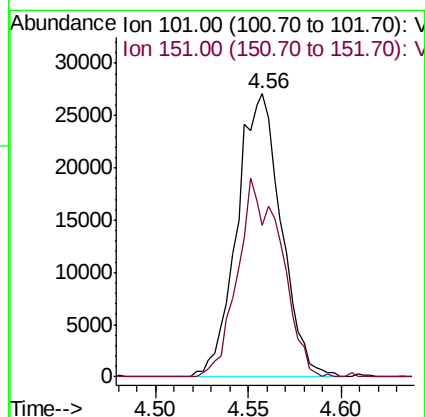
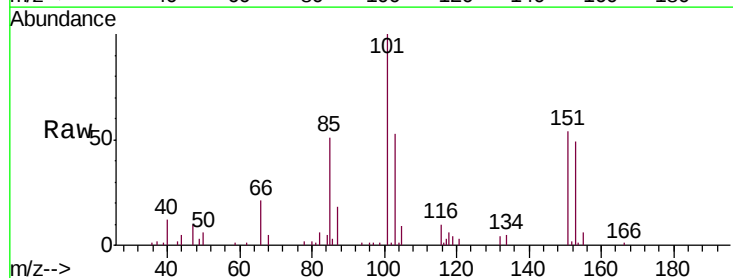
#11
 Trichlorofluoromethane
 Concen: 0.431 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

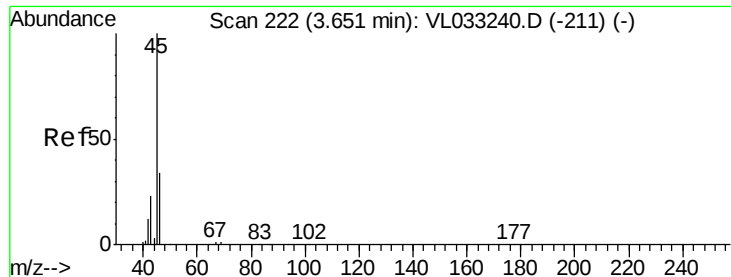
Tgt Ion:101 Resp: 62404
 Ion Ratio Lower Upper
 101 100
 103 69.9 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.478 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion:101 Resp: 44935
 Ion Ratio Lower Upper
 101 100
 151 69.0 57.0 85.6





#13

Ethanol

Concen: 0.572 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033251.D

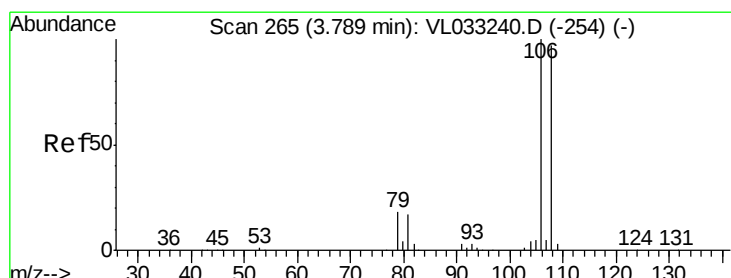
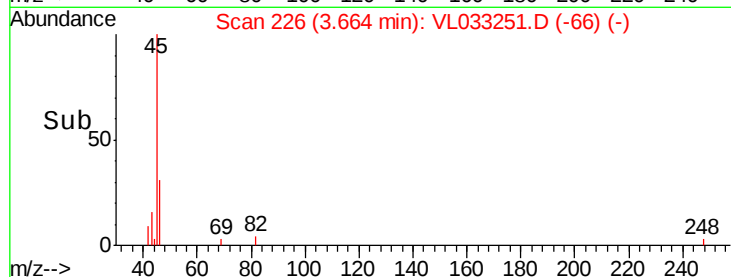
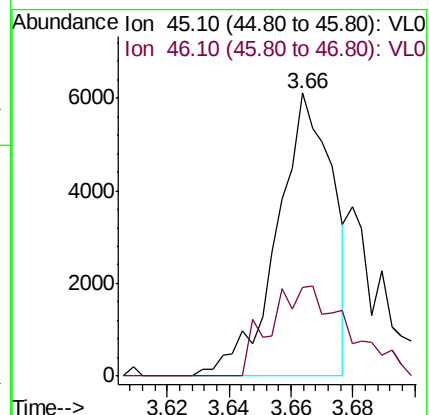
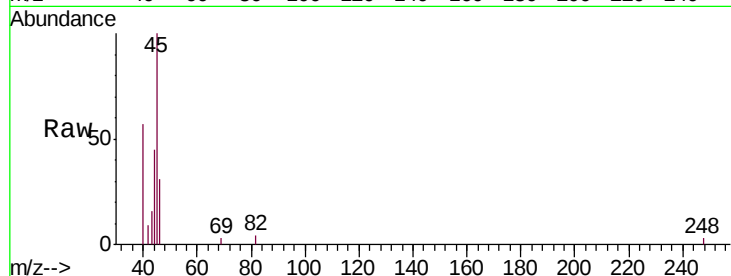
Acq: 6 Mar 2019 11:04

Tgt Ion: 45 Resp: 7617

Ion Ratio Lower Upper

45 100

46 45.2 15.3 61.3



#14

Bromoethene

Concen: 0.196 ppbv

RT: 3.80 min Scan# 267

Delta R.T. 0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

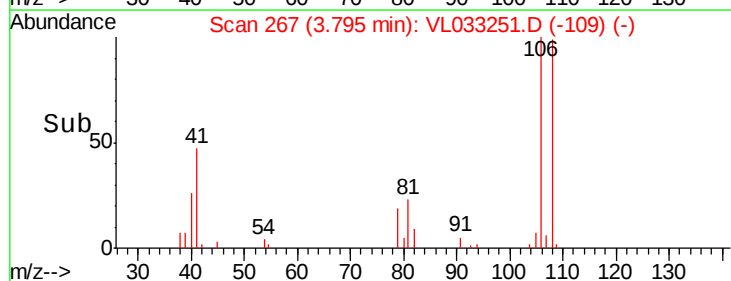
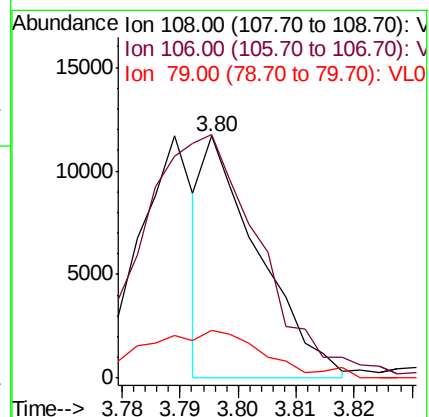
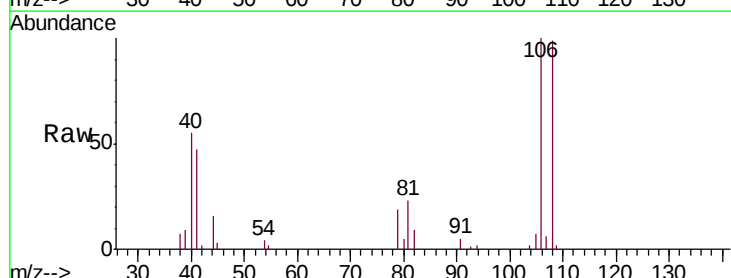
Tgt Ion: 108 Resp: 7766

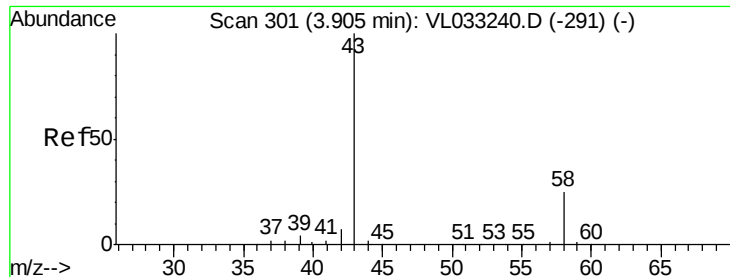
Ion Ratio Lower Upper

108 100

106 222.4 85.5 128.3#

79 44.1 15.3 22.9#





#15

Acetone

Concen: 0.512 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033251.D

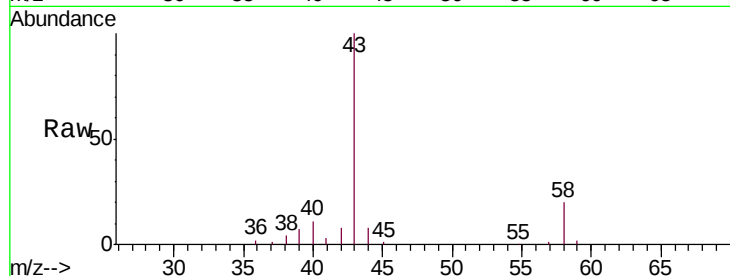
Acq: 6 Mar 2019 11:04

Tgt Ion: 43 Resp: 57553

Ion Ratio Lower Upper

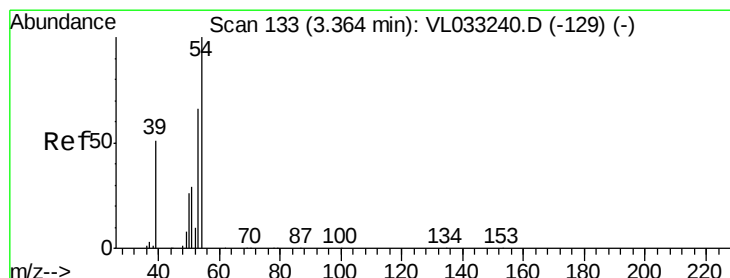
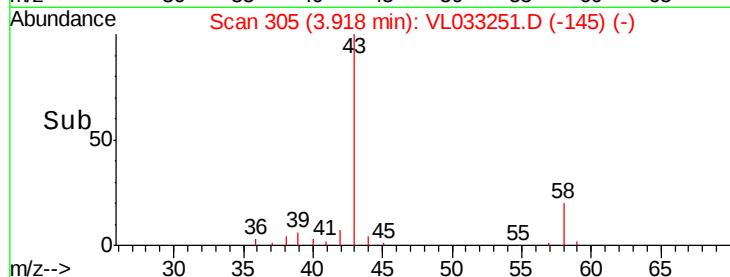
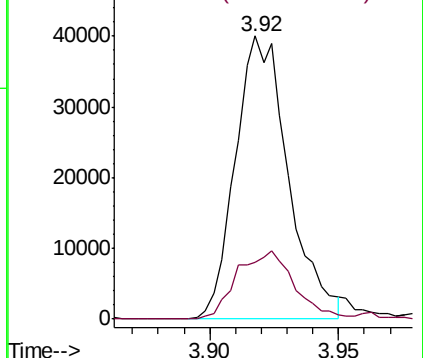
43 100

58 27.0 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.225 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033251.D

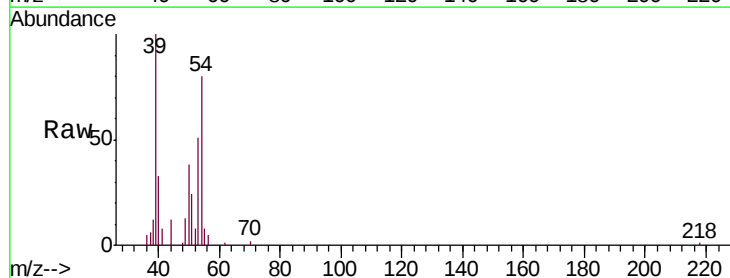
Acq: 6 Mar 2019 11:04

Tgt Ion: 39 Resp: 10103

Ion Ratio Lower Upper

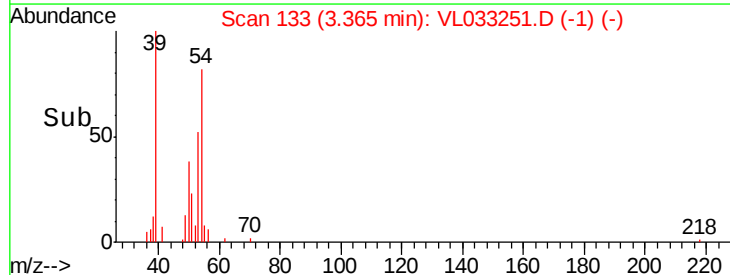
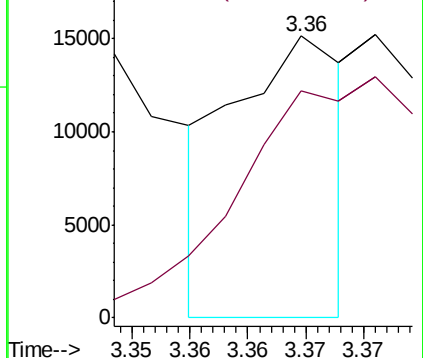
39 100

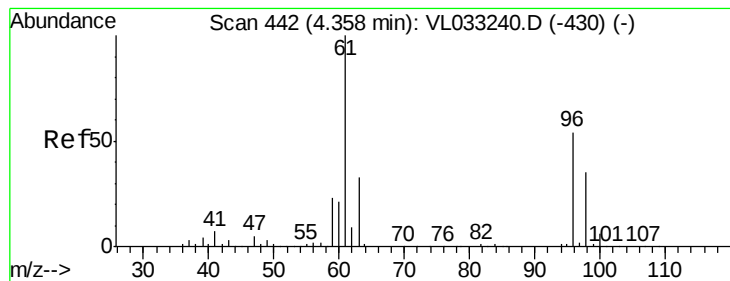
54 0.0 69.6 104.4#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033251.D

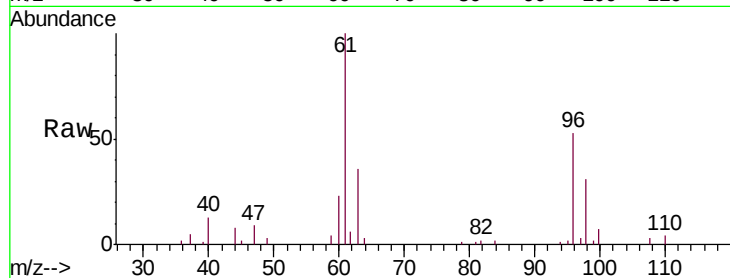
Acq: 6 Mar 2019 11:04

Tgt Ion: 59 Resp: 713

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

1000

800

600

400

200

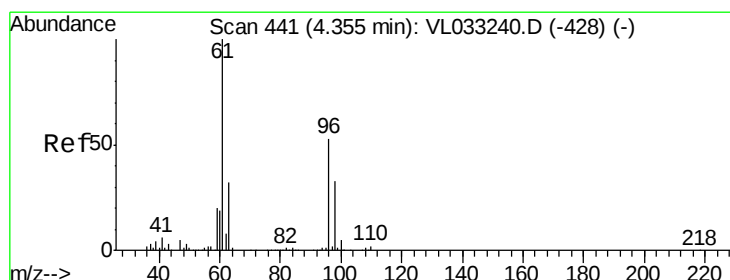
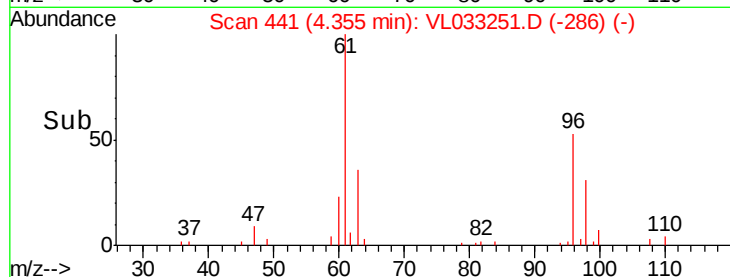
0

4.34

4.35

4.36

Time-->



#18

1,1-Dichloroethene

Concen: 0.433 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

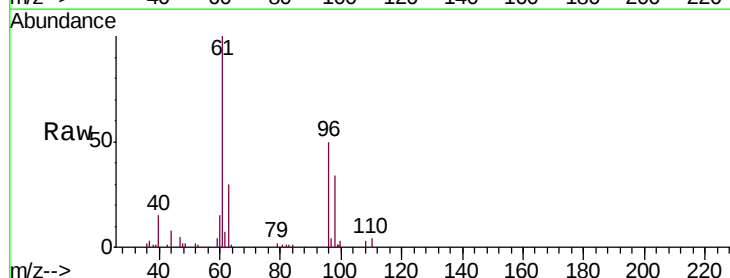
Tgt Ion: 96 Resp: 18110

Ion Ratio Lower Upper

96 100

61 211.3 150.2 225.2

98 66.6 49.2 73.8



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

30000

25000

20000

15000

10000

5000

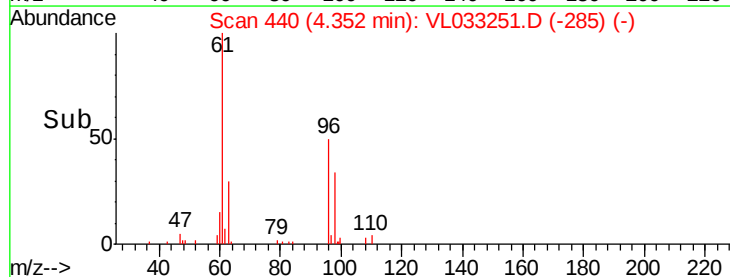
0

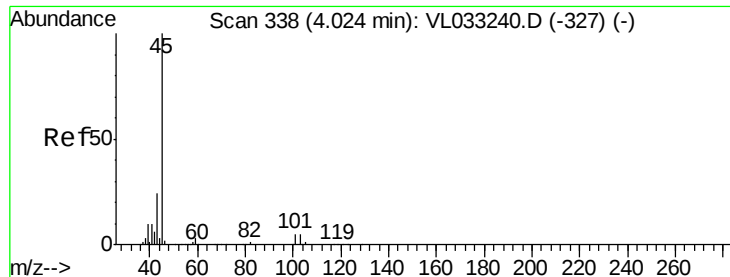
4.30

4.35

4.40

Time-->





#19

Isopropyl Alcohol

Concen: 0.286 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033251.D

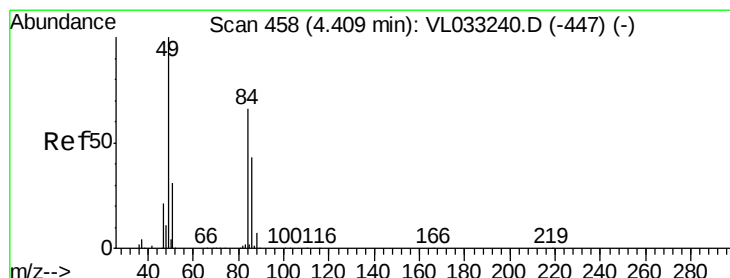
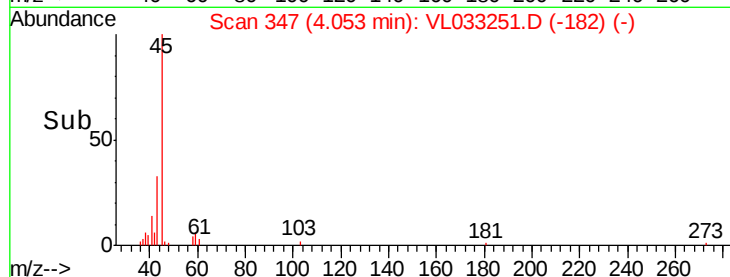
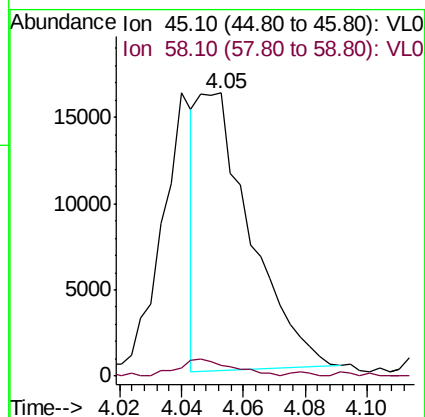
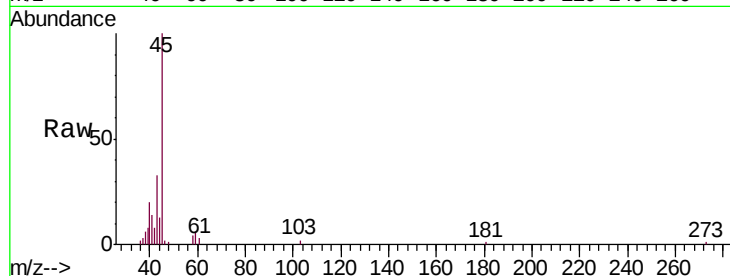
Acq: 6 Mar 2019 11:04

Tgt Ion: 45 Resp: 19108

Ion Ratio Lower Upper

45 100

58 6.9 1.4 2.0#



#20

Methylene Chloride

Concen: 0.308 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion: 84 Resp: 13116

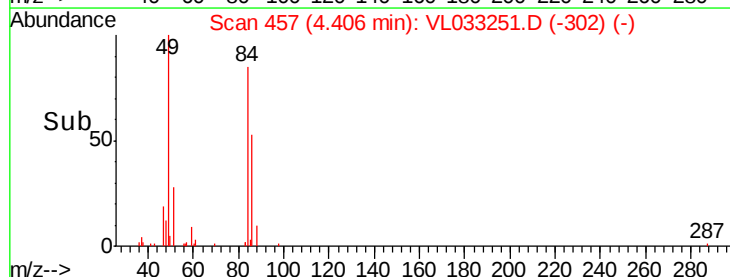
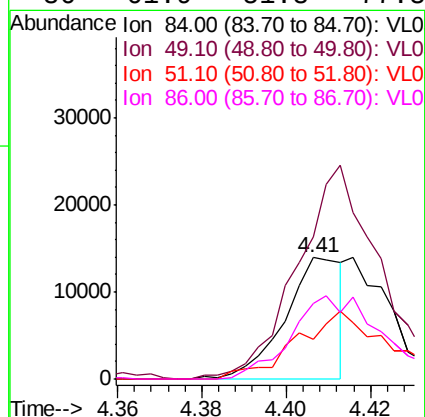
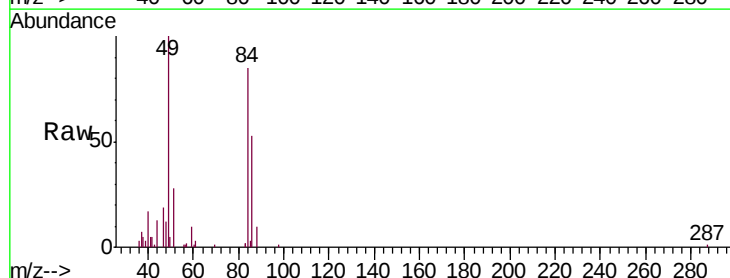
Ion Ratio Lower Upper

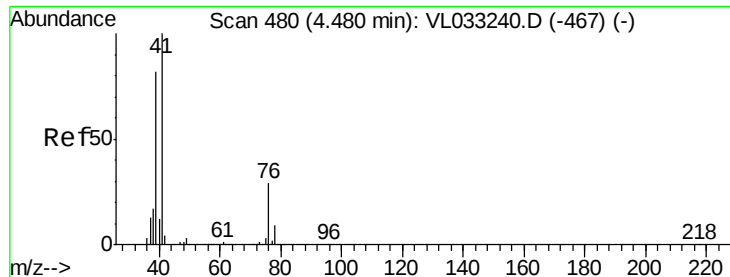
84 100

49 123.6 120.4 180.6

51 33.2 36.7 55.1#

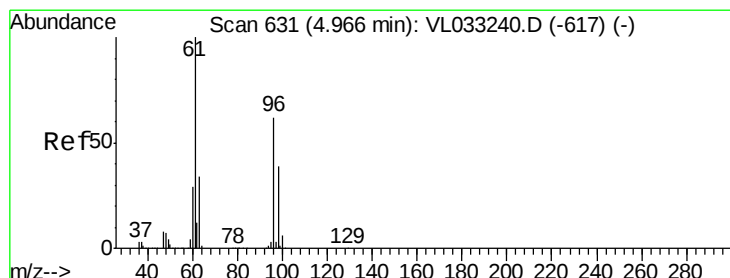
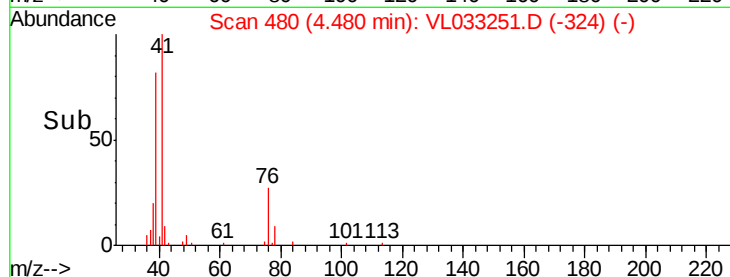
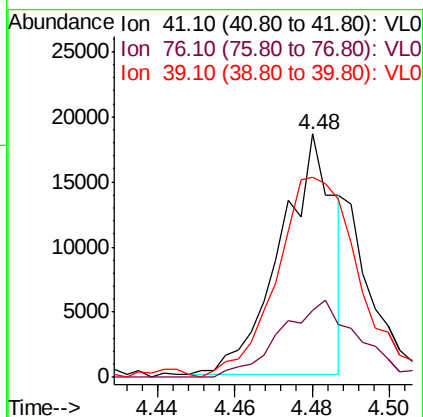
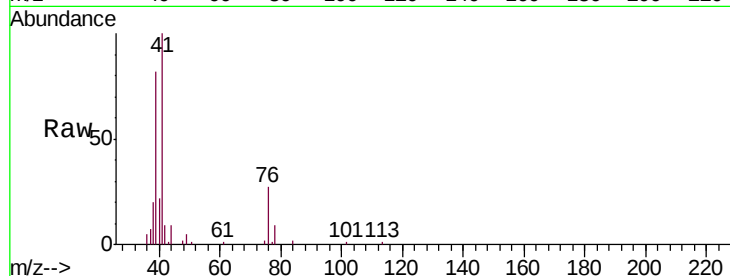
86 61.9 51.8 77.8





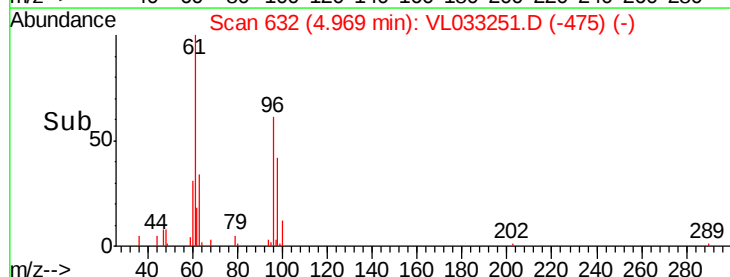
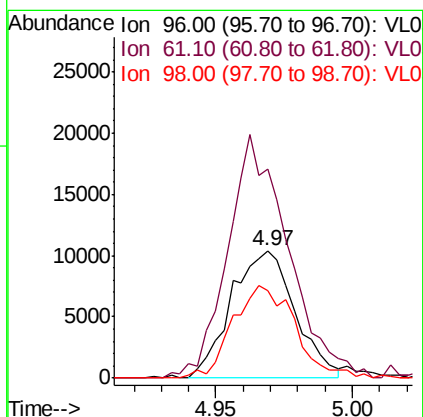
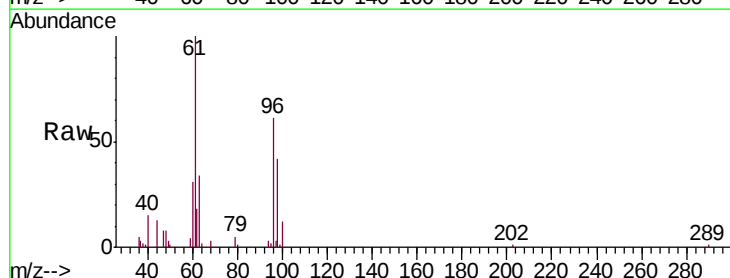
#21
 Allyl Chloride
 Concen: 0.286 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

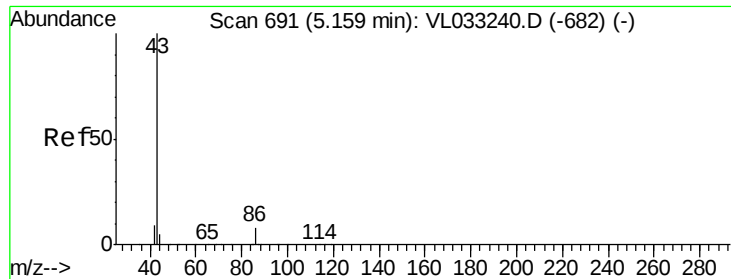
Tgt Ion: 41 Resp: 17963
 Ion Ratio Lower Upper
 41 100
 76 45.5 24.6 36.8#
 39 131.0 65.2 97.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.397 ppbv
 RT: 4.97 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

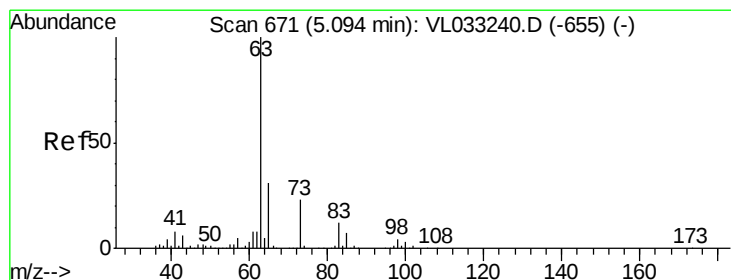
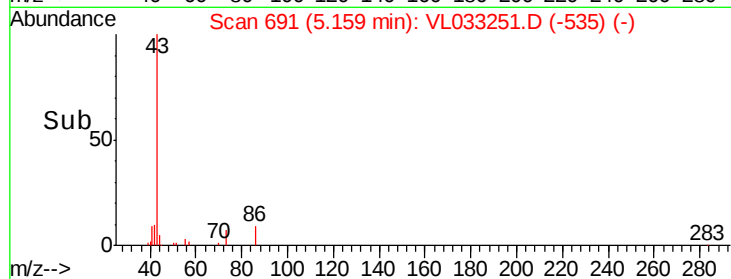
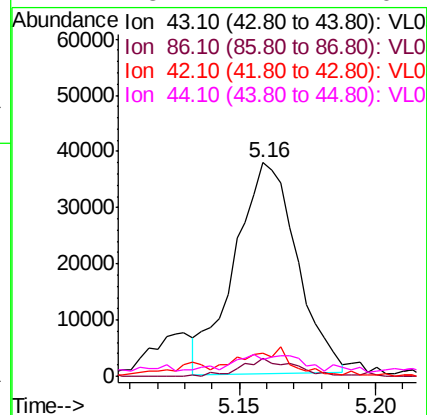
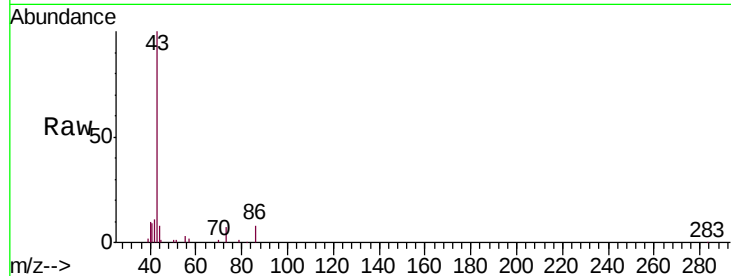
Tgt Ion: 96 Resp: 16959
 Ion Ratio Lower Upper
 96 100
 61 181.5 128.3 192.5
 98 66.5 50.6 75.8





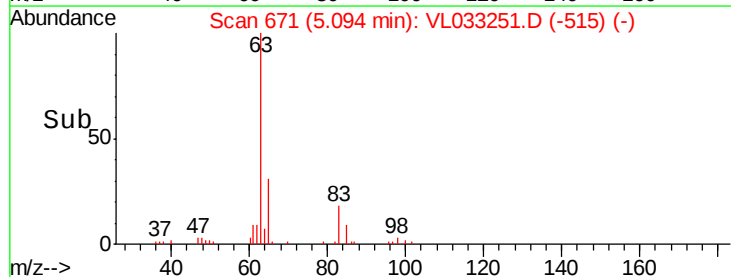
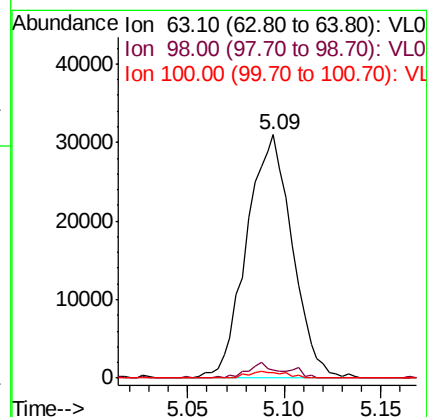
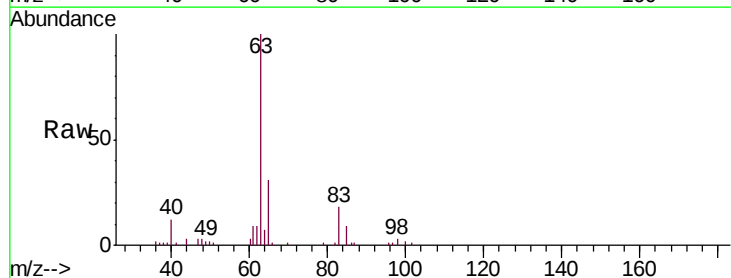
#23
 Vinyl Acetate
 Concen: 0.360 ppbv
 RT: 5.16 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

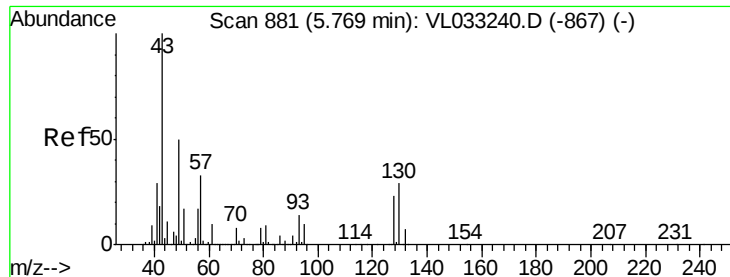
Tgt Ion:	43	Resp:	59768
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.5	8.3#
42	10.1	7.7	11.5
44	5.2	4.1	6.1



#24
 1,1-Dichloroethane
 Concen: 0.429 ppbv
 RT: 5.09 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

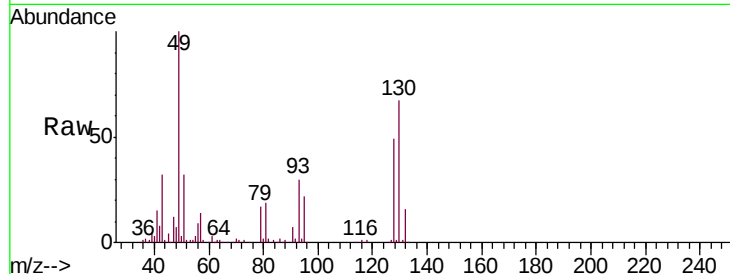
Tgt Ion:	63	Resp:	50714
Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.1	6.3
100	2.4	1.3	3.8



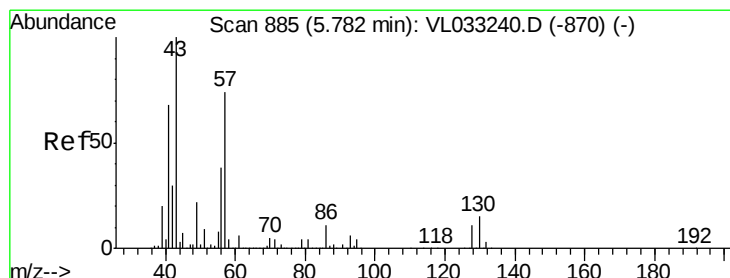
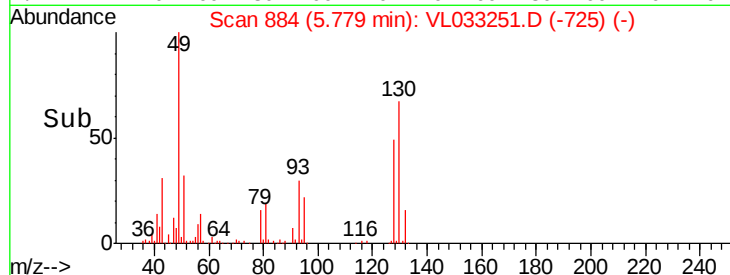
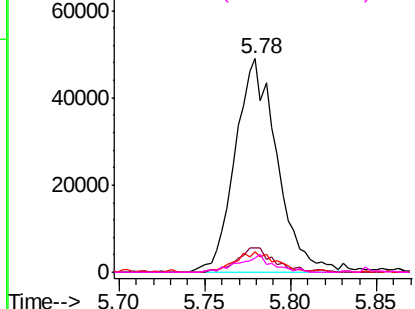


#25
Ethyl Acetate
Concen: 0.402 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion:	43	Resp:	82807
Ion	Ratio	Lower	Upper
43	100		
45	10.5	7.8	11.6
61	9.7	7.0	10.6
70	6.7	5.5	8.3

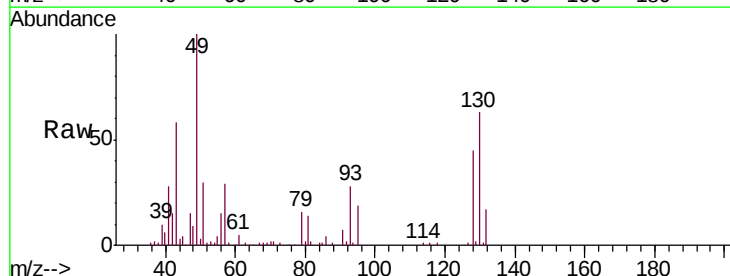


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

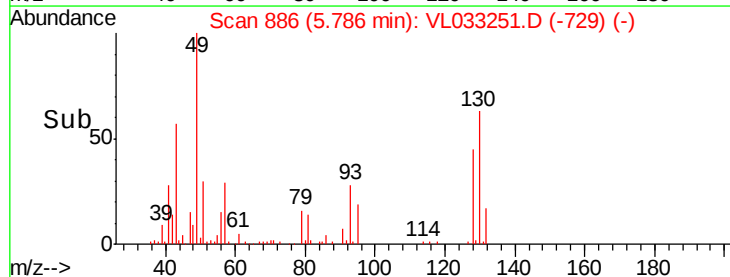
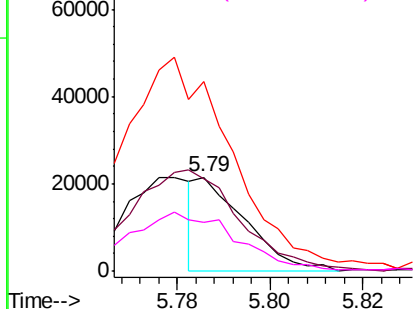


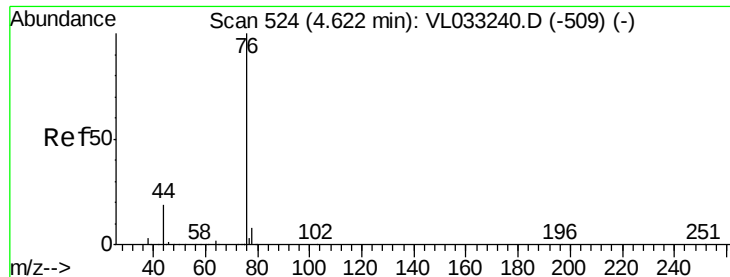
#26
Hexane
Concen: 0.160 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion:	57	Resp:	15426
Ion	Ratio	Lower	Upper
57	100		
41	259.5	73.4	110.2#
43	0.0	182.1	273.1#
56	0.0	42.6	64.0#



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





#27

Carbon Disulfide

Concen: 0.393 ppbv

RT: 4.62 min Scan# 525

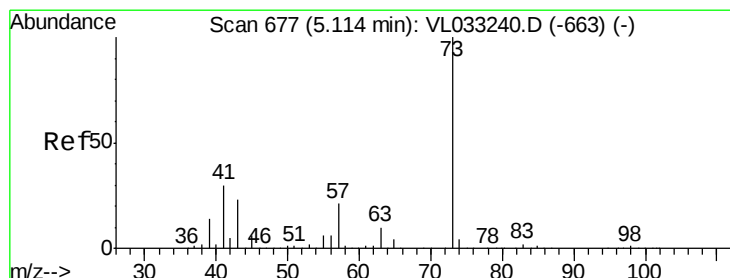
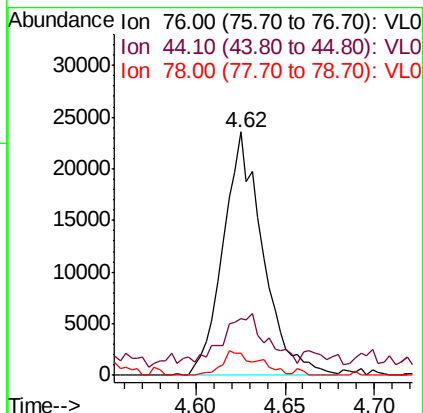
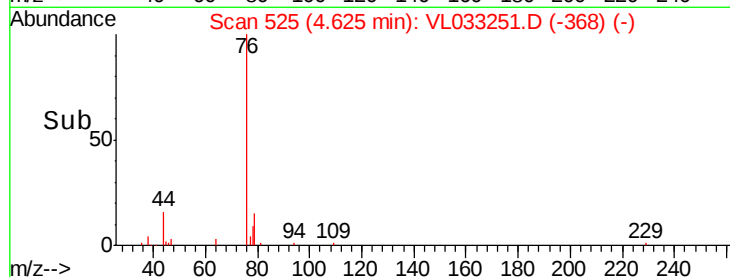
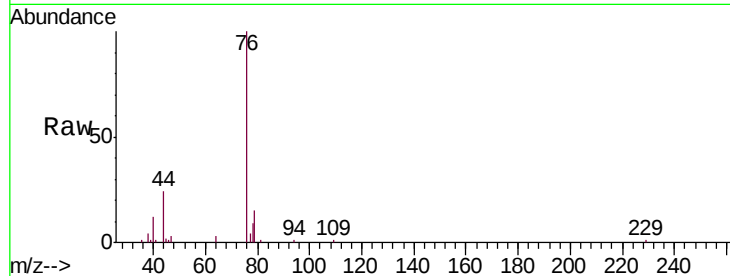
Delta R.T. 0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion: 76 Resp: 36461

Ion	Ratio	Lower	Upper
76	100		
44	32.6	15.0	22.6#
78	9.7	7.3	10.9



#28

Methyl tert-Butyl Ether

Concen: 0.341 ppbv

RT: 5.13 min Scan# 681

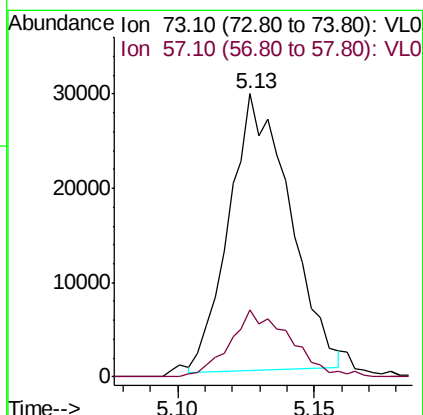
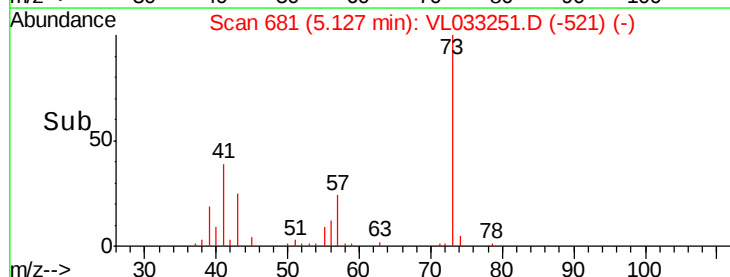
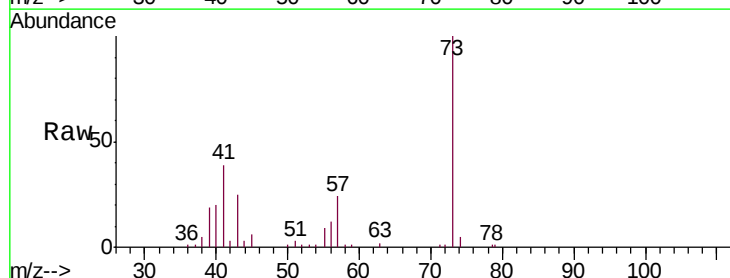
Delta R.T. 0.01 min

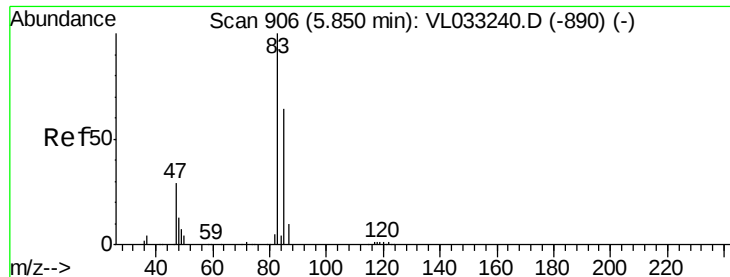
Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion: 73 Resp: 45299

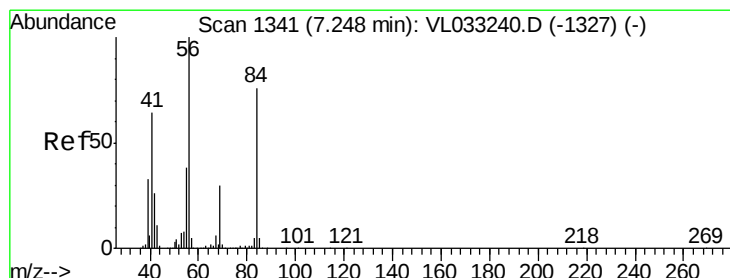
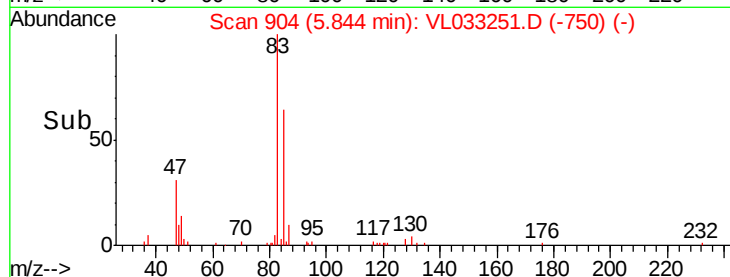
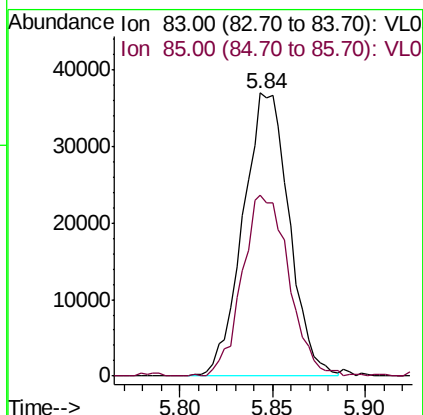
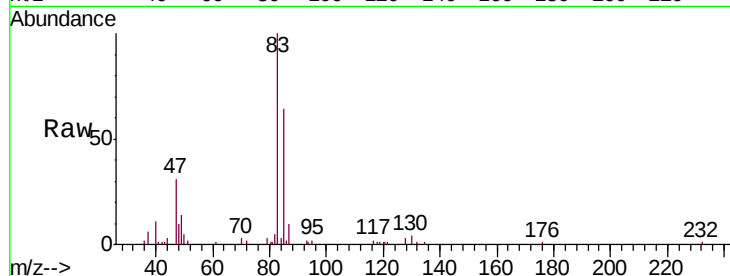
Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.6	26.4





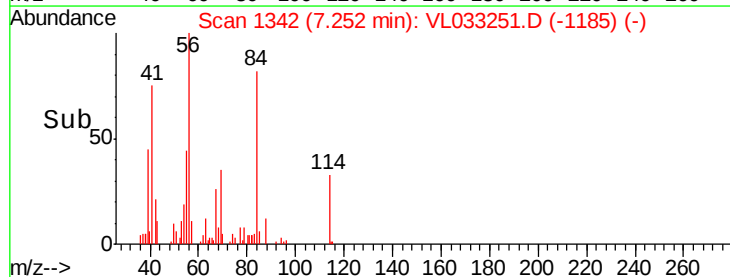
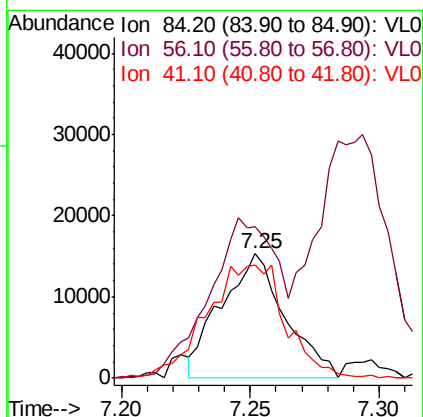
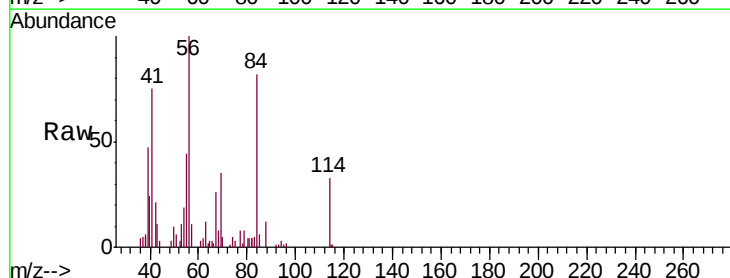
#29
Chloroform
Concen: 0.427 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

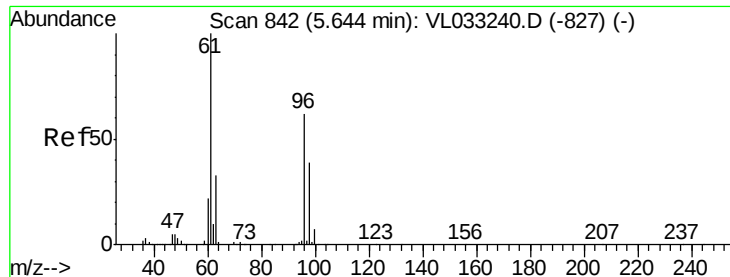
Tgt Ion: 83 Resp: 63937
Ion Ratio Lower Upper
83 100
85 63.9 51.2 76.8



#30
Cyclohexane
Concen: 0.367 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion: 84 Resp: 26506
Ion Ratio Lower Upper
84 100
56 146.7 113.1 169.7
41 112.5 70.8 106.2#

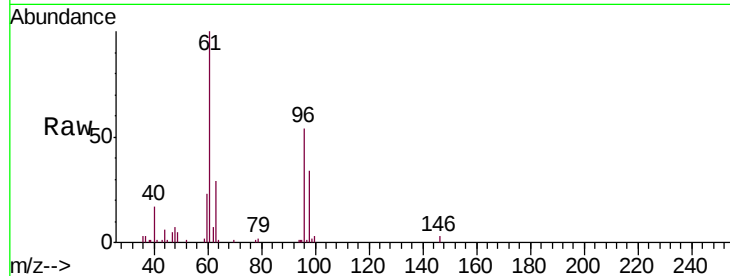




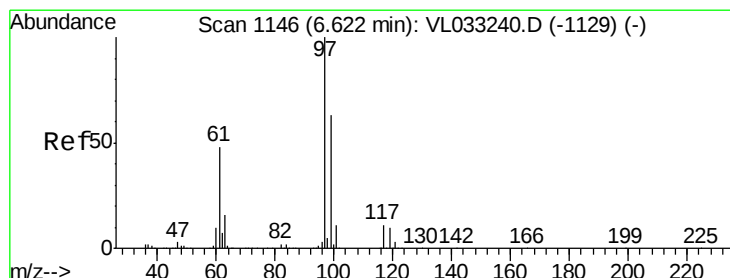
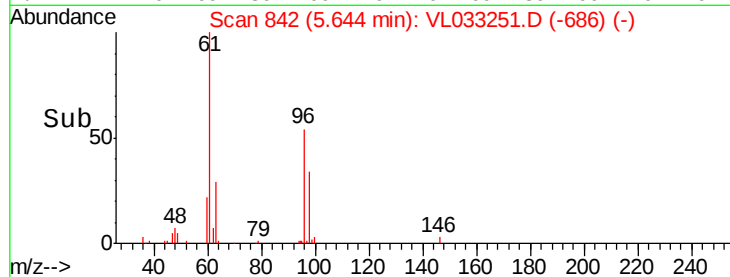
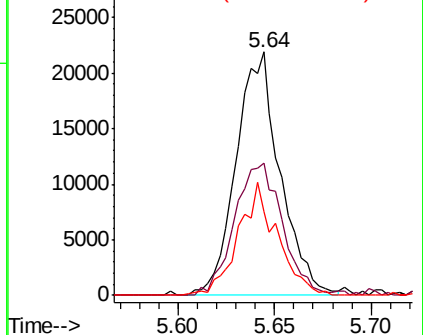
#31

cis-1,2-Dichloroethene
 Concen: 0.373 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion:	61	Resp:	34679
Ion	Ratio	Lower	Upper
61	100		
96	54.2	49.4	74.0
98	34.2	31.2	46.8



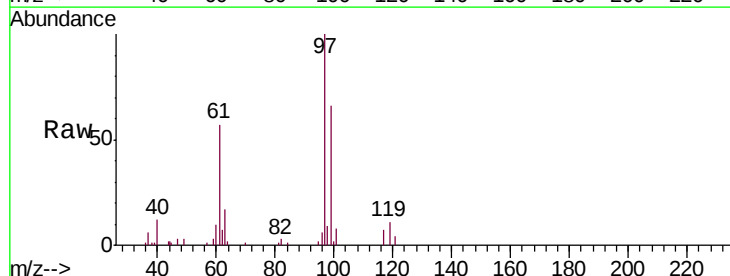
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



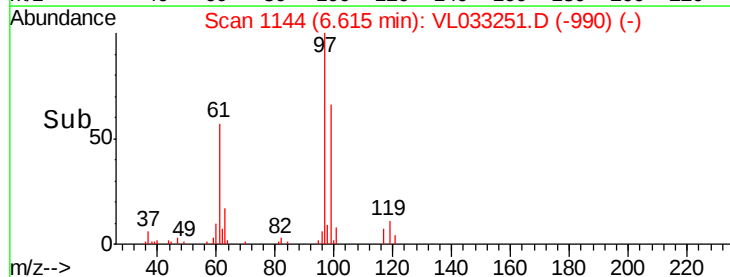
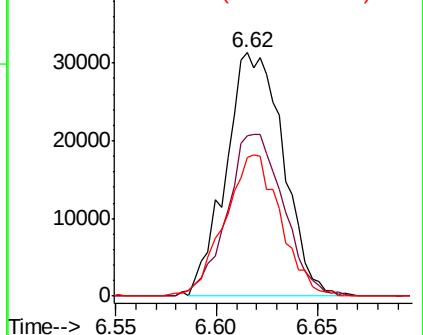
#32

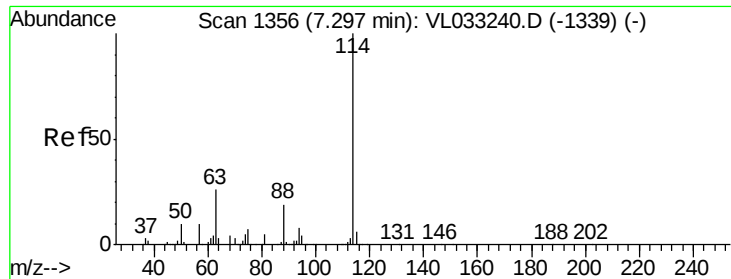
1,1,1-Trichloroethane
 Concen: 0.429 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion:	97	Resp:	62317
Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.4	77.0
61	56.1	40.1	60.1



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: VL033251.D

Acq: 6 Mar 2019 11:04

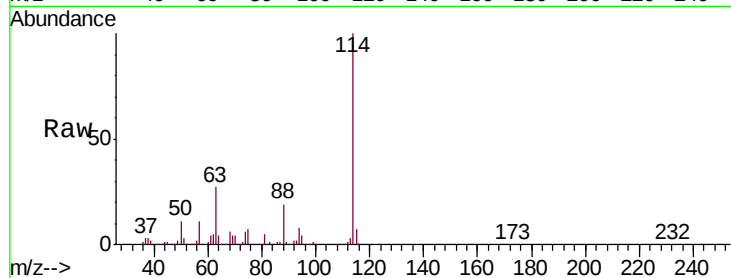
Tgt Ion: 114 Resp: 2219952

Ion Ratio Lower Upper

114 100

63 27.6 22.0 33.0

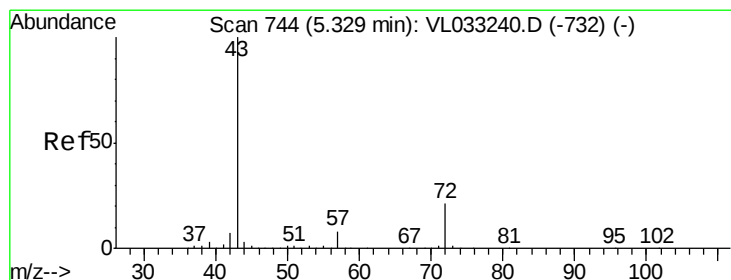
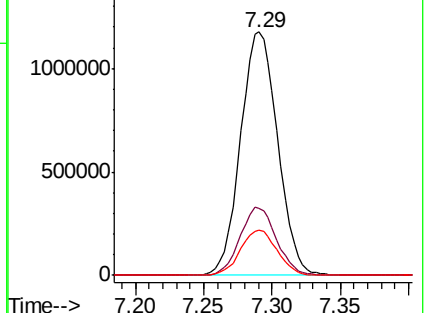
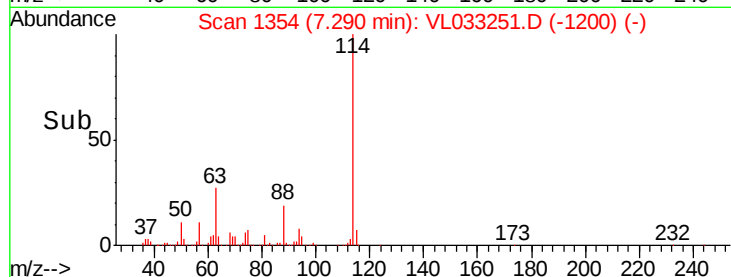
88 18.5 15.0 22.4



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: 0.331 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.02 min

Lab File: VL033251.D

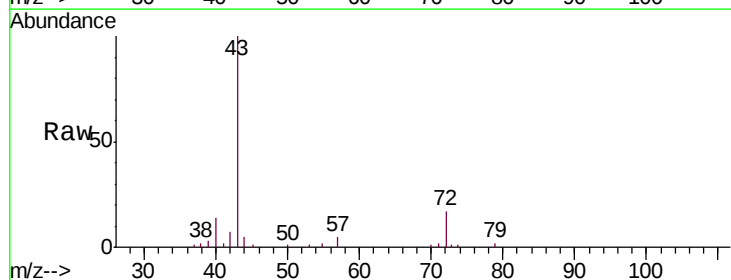
Acq: 6 Mar 2019 11:04

Tgt Ion: 43 Resp: 50934

Ion Ratio Lower Upper

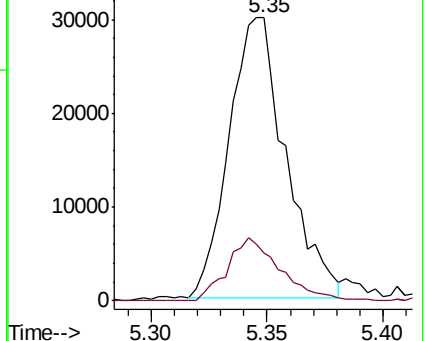
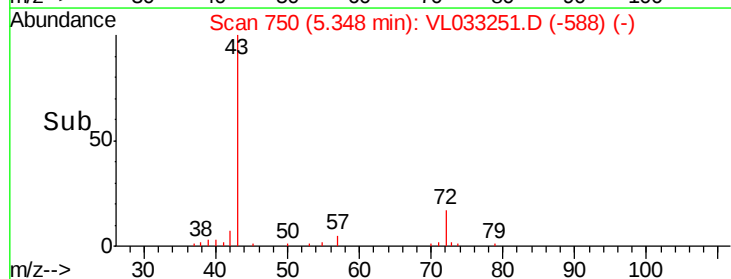
43 100

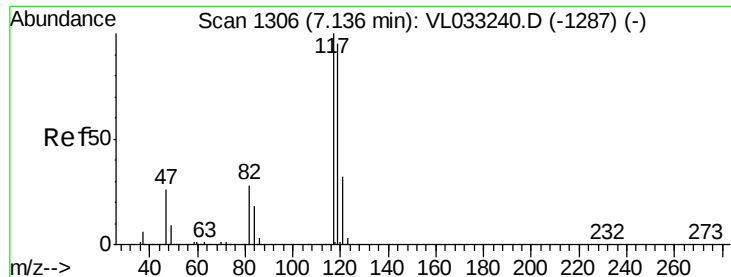
72 21.0 17.1 25.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.395 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

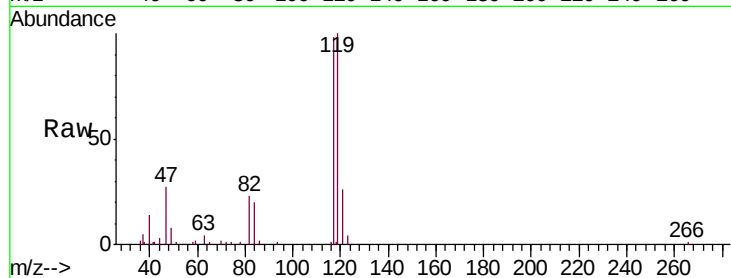
Tgt Ion: 117 Resp: 66243

Ion Ratio Lower Upper

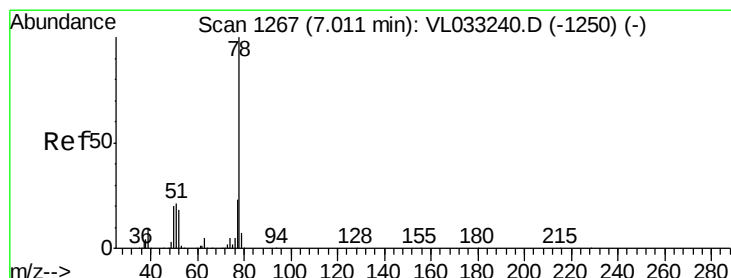
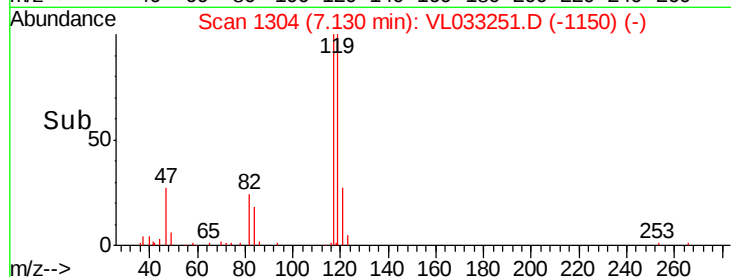
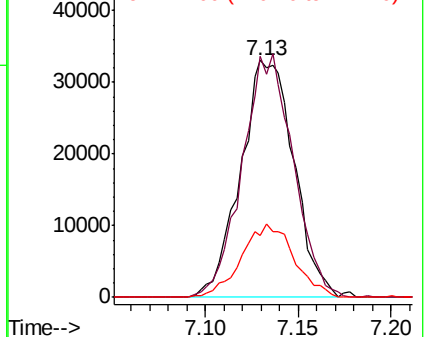
117 100

119 101.6 75.8 113.6

121 26.4 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.382 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

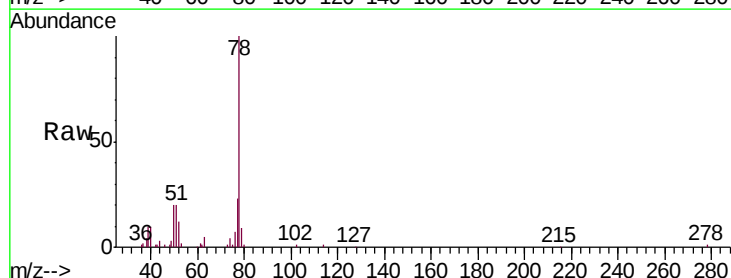
Tgt Ion: 78 Resp: 79664

Ion Ratio Lower Upper

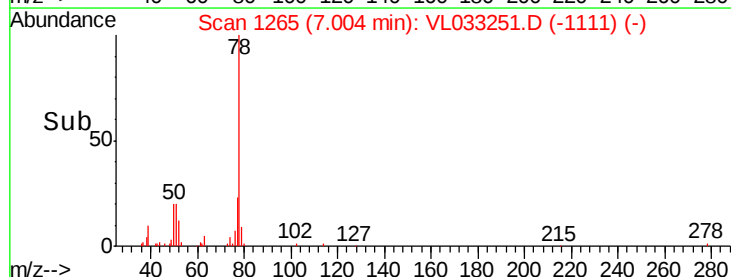
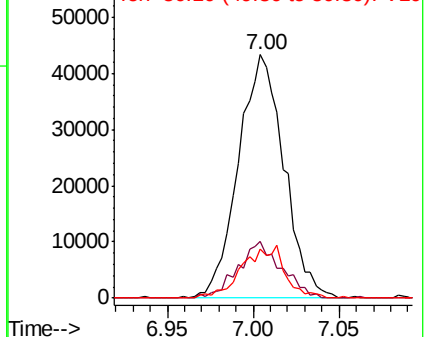
78 100

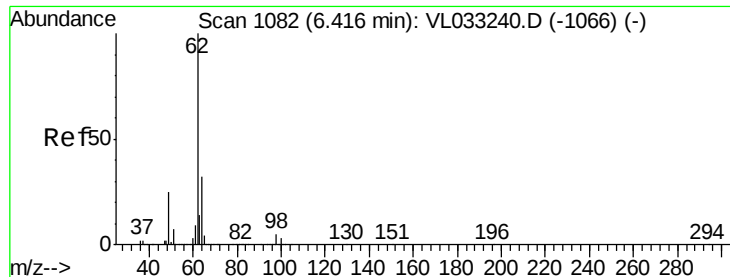
77 23.1 18.0 27.0

50 20.2 16.2 24.4



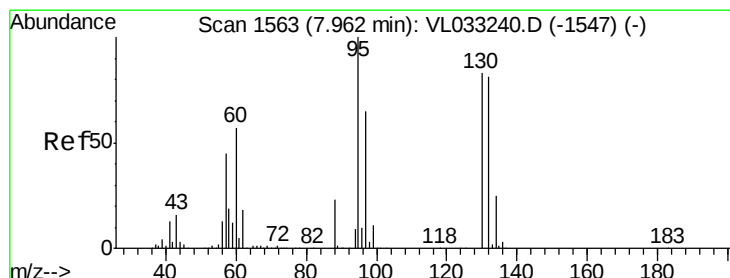
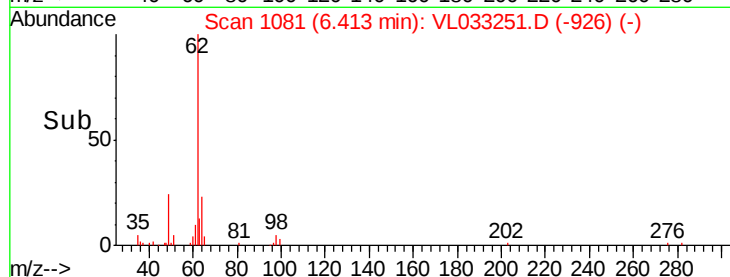
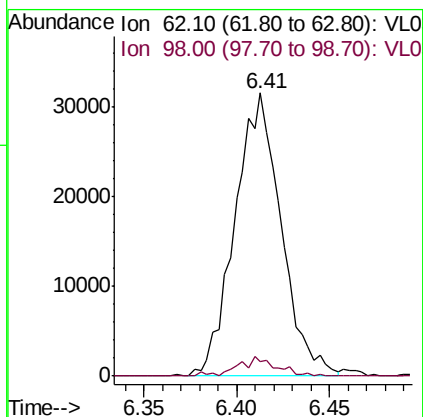
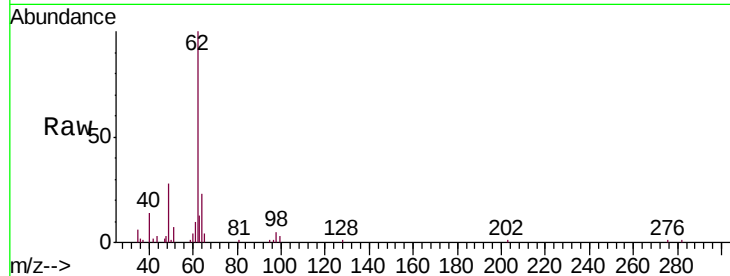
Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





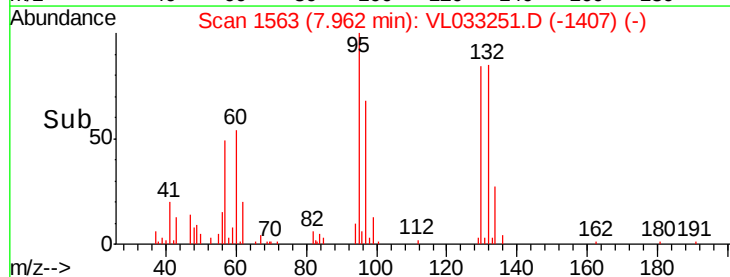
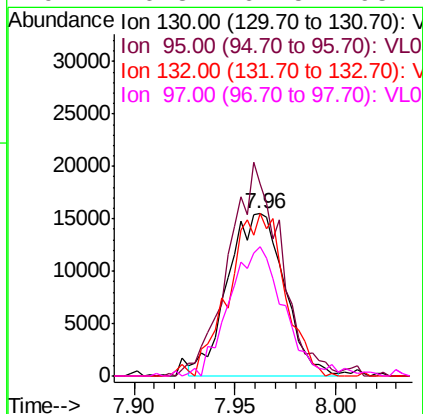
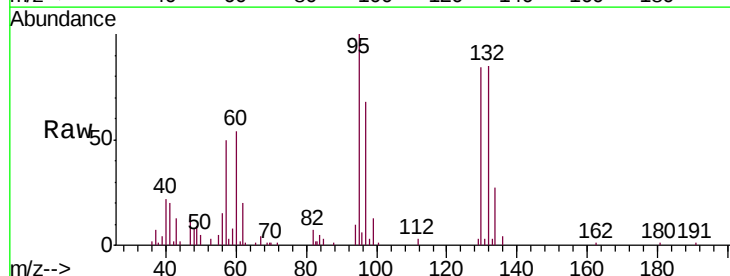
#37
 1,2-Dichloroethane
 Concen: 0.423 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

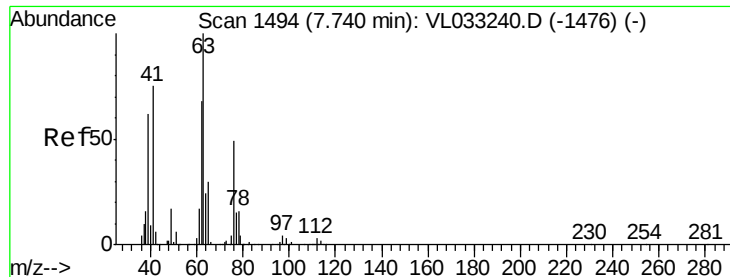
Tgt Ion: 62 Resp: 54808
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.5 6.7



#38
 Trichloroethene
 Concen: 0.387 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion: 130 Resp: 30457
 Ion Ratio Lower Upper
 130 100
 95 113.2 95.7 143.5
 132 98.0 77.4 116.2
 97 76.8 62.5 93.7





#39

1,2-Dichloropropane

Concen: 0.202 ppbv

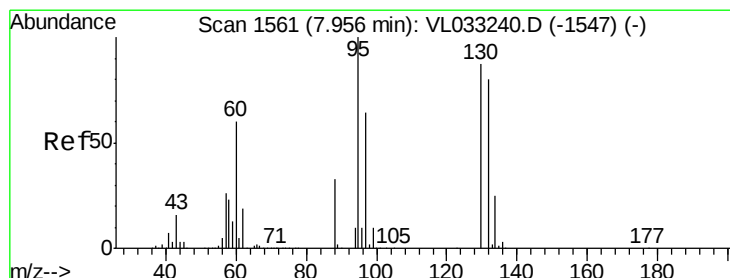
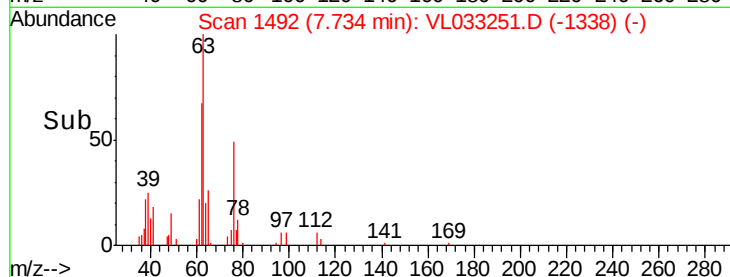
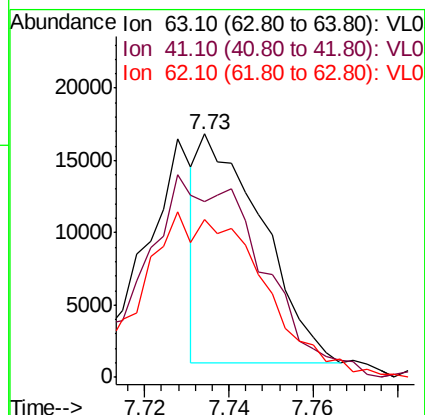
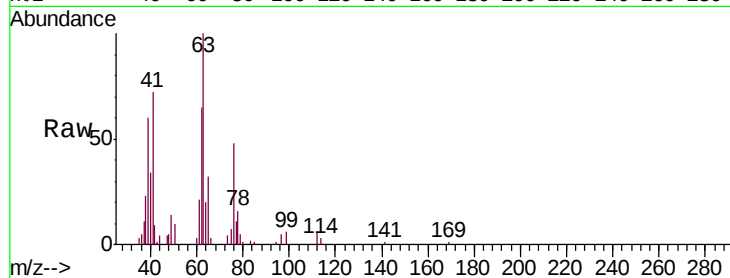
RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion:	63	Resp:	16422
Ion	Ratio	Lower	Upper
63	100		
41	70.8	60.0	90.0
62	61.5	54.2	81.4



#40

1,4-Dioxane

Concen: 0.002 ppbv

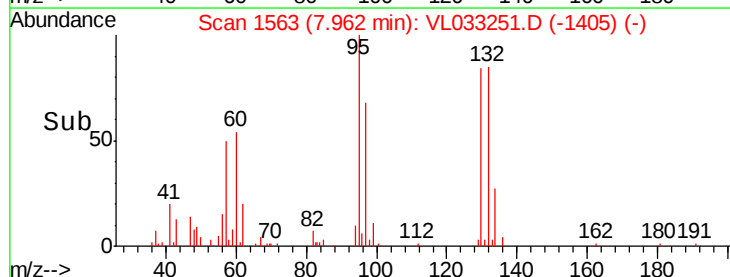
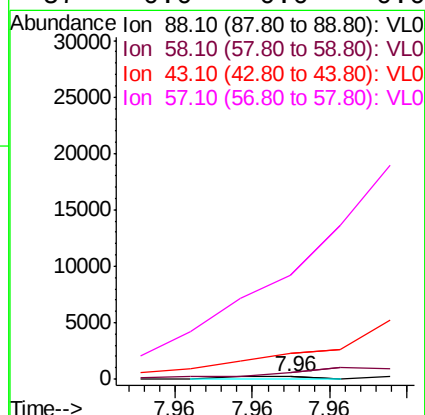
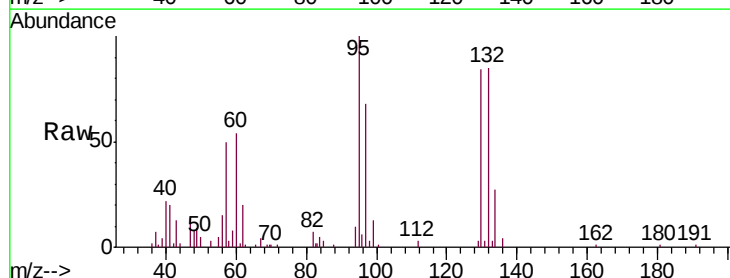
RT: 7.96 min Scan# 1563

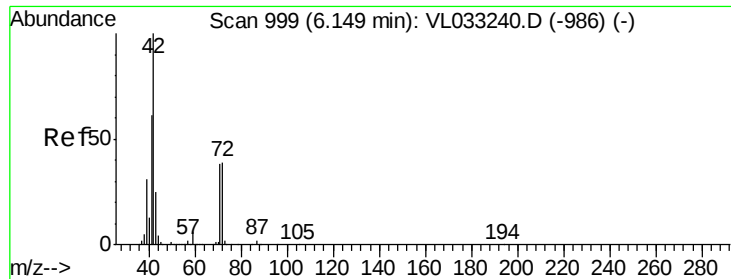
Delta R.T. 0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

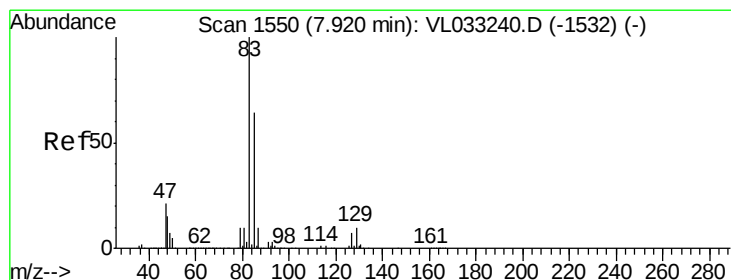
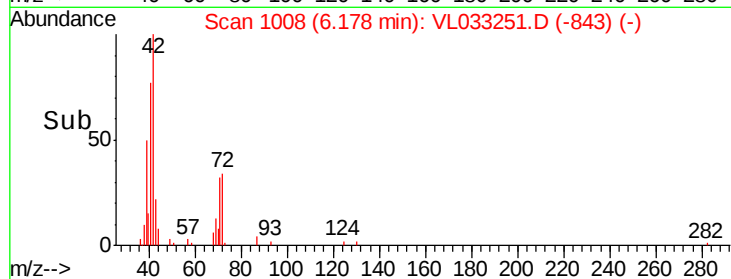
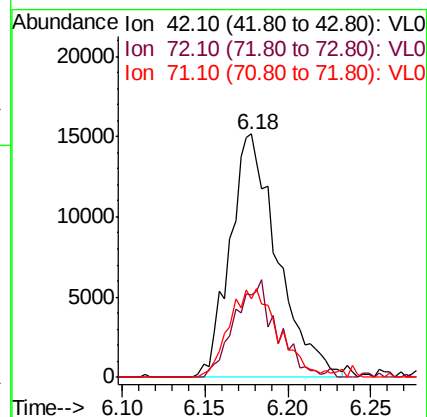
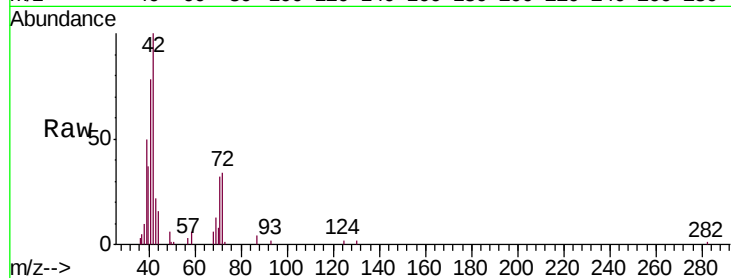
Tgt Ion:	88	Resp:	72
Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.1	157.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





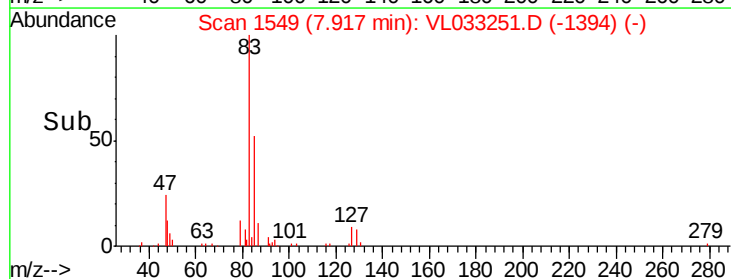
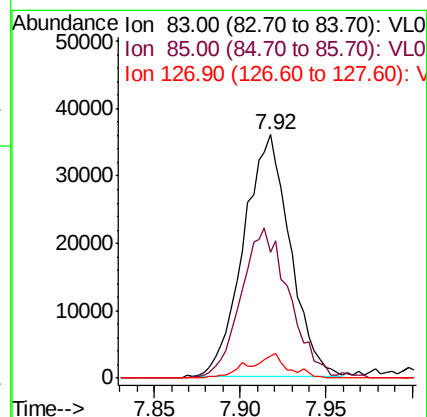
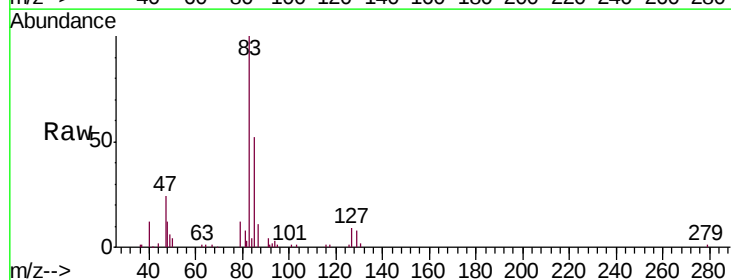
#41
Tetrahydrofuran
Concen: 0.358 ppbv
RT: 6.18 min Scan# 1008
Delta R.T. 0.03 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

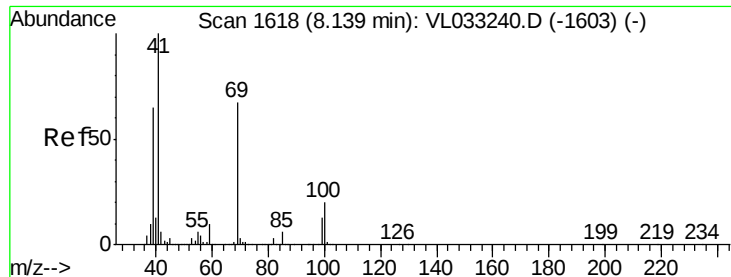
Tgt Ion: 42 Resp: 30286
Ion Ratio Lower Upper
42 100
72 35.8 30.2 45.4
71 38.8 29.6 44.4



#42
Bromodichloromethane
Concen: 0.369 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.00 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion: 83 Resp: 67611
Ion Ratio Lower Upper
83 100
85 51.3 51.5 77.3#
127 9.3 5.9 8.9#





#43

Methyl Methacrylate

Concen: 0.178 ppbv

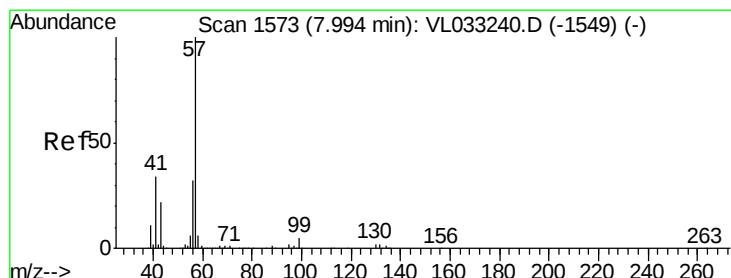
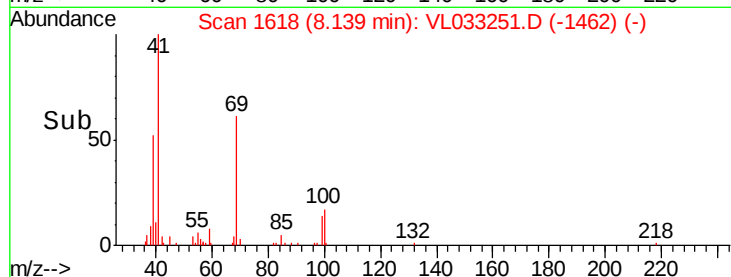
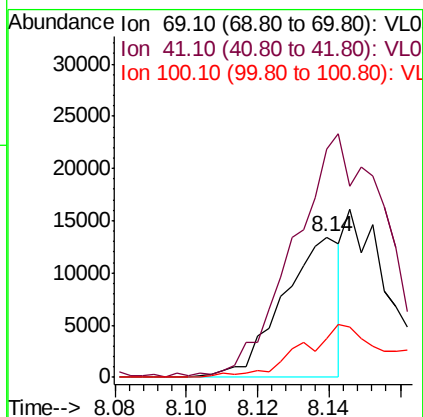
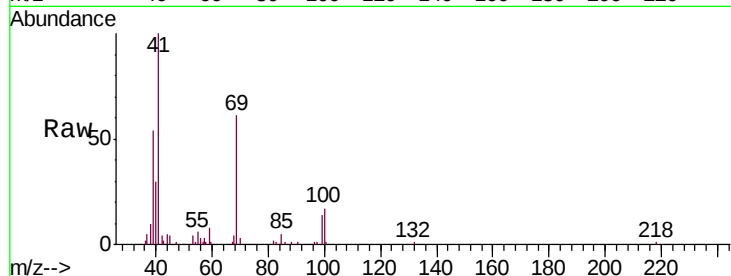
RT: 8.14 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion:	69	Resp:	15029
Ion	Ratio	Lower	Upper
69	100		
41	0.0	120.9	181.3#
100	0.0	24.4	36.6#



#44

2,2,4-Trimethylpentane

Concen: 0.376 ppbv

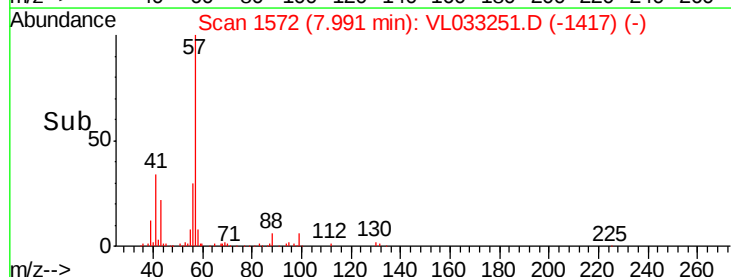
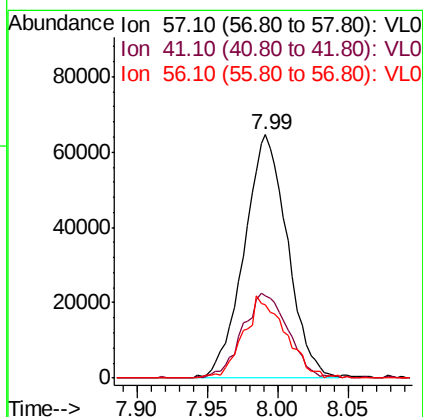
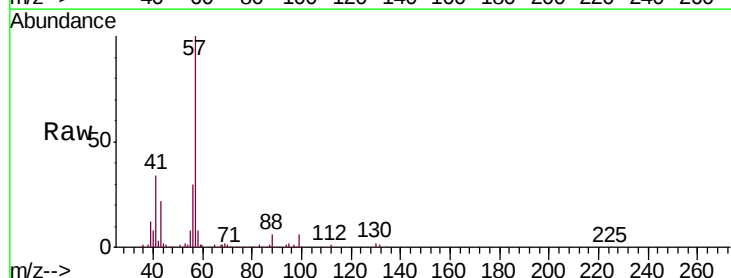
RT: 7.99 min Scan# 1572

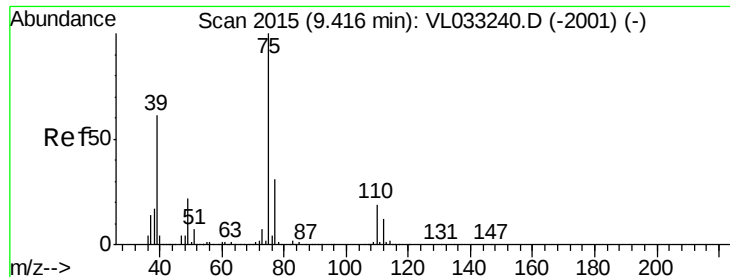
Delta R.T. -0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion:	57	Resp:	138506
Ion	Ratio	Lower	Upper
57	100		
41	37.0	26.1	39.1
56	32.6	24.7	37.1





#45

t-1,3-Dichloropropene

Concen: 0.198 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL033251.D

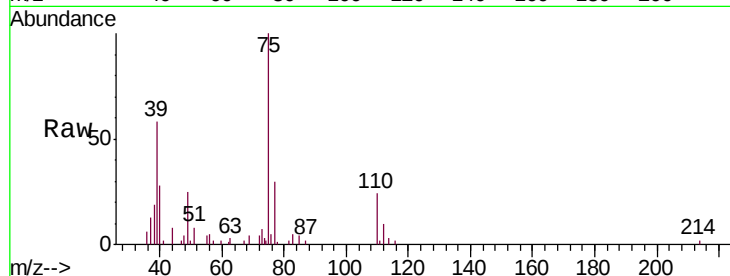
Acq: 6 Mar 2019 11:04

Tgt Ion: 75 Resp: 20164

Ion Ratio Lower Upper

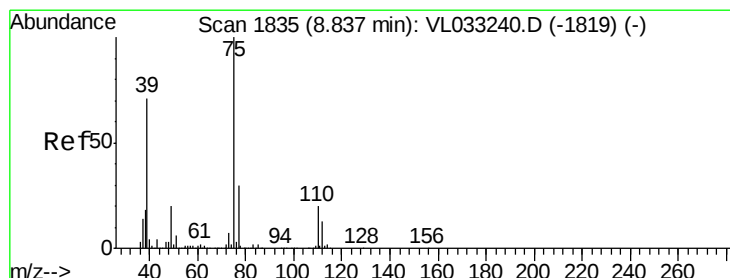
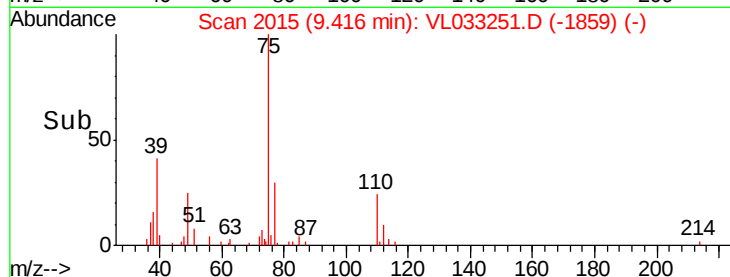
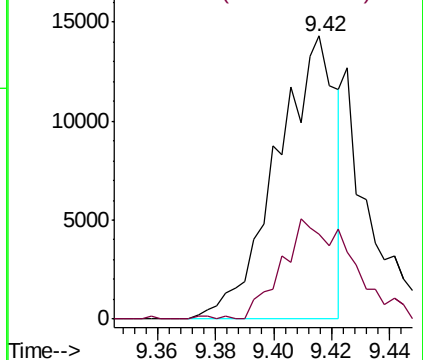
75 100

77 29.9 24.7 37.1



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.304 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

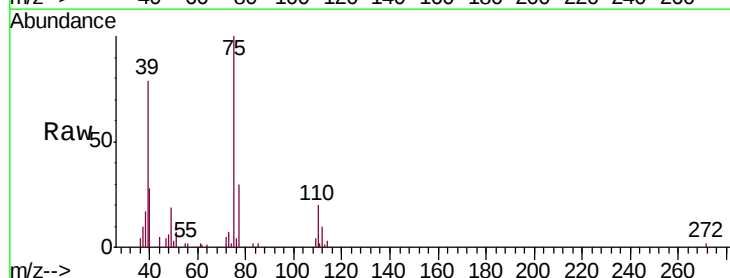
Tgt Ion: 75 Resp: 36967

Ion Ratio Lower Upper

75 100

39 76.3 57.0 85.6

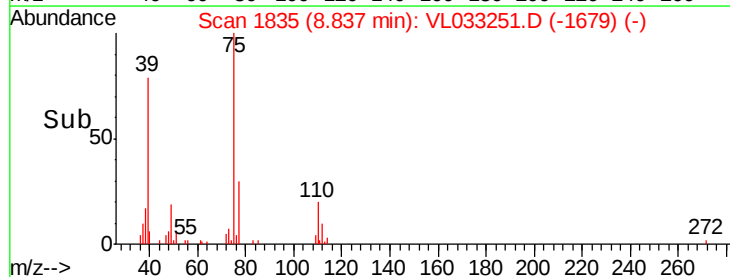
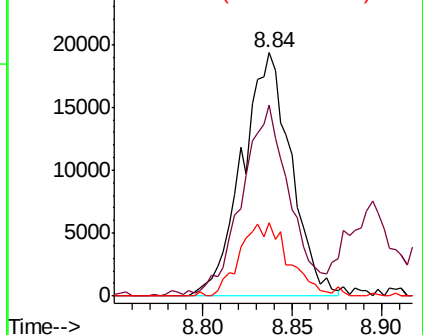
77 30.2 24.0 36.0

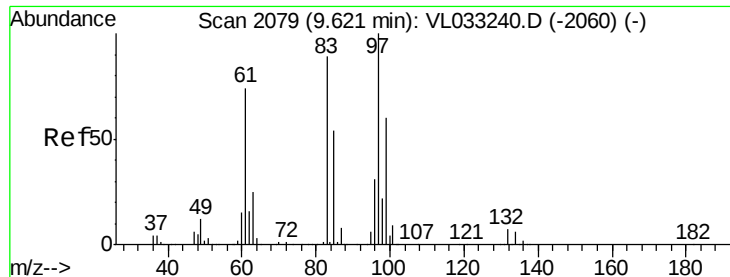


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.394 ppbv

RT: 9.61 min Scan# 2075

Delta R.T. -0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

Tgt Ion: 97 Resp: 34501

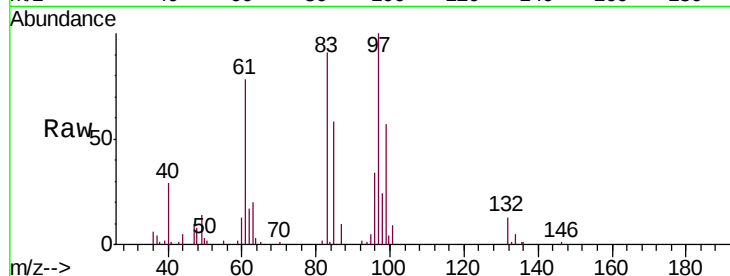
Ion Ratio Lower Upper

97 100

83 90.6 71.1 106.7

85 59.1 42.9 64.3

99 55.6 48.2 72.4

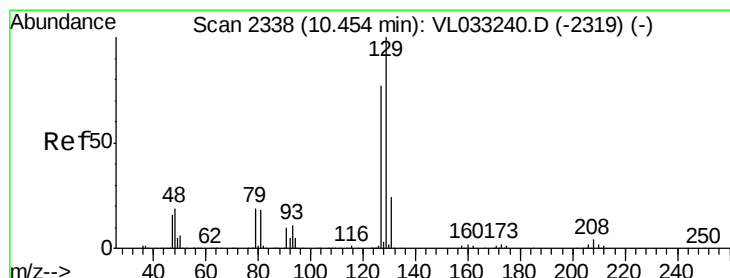
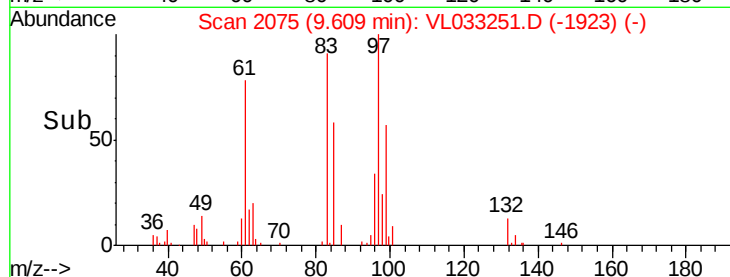
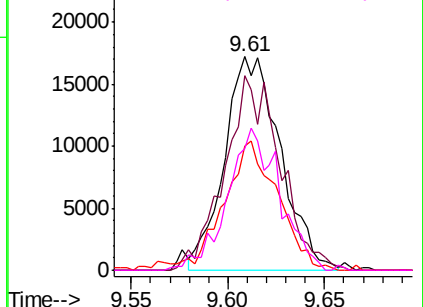


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.351 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. -0.00 min

Lab File: VL033251.D

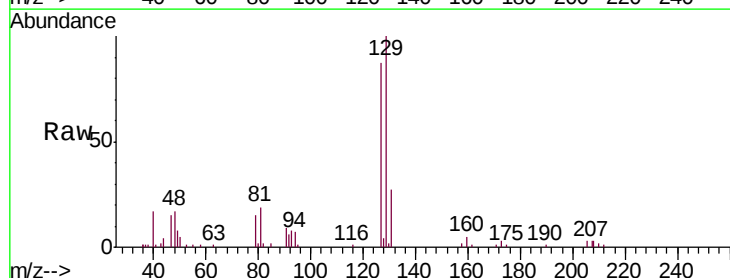
Acq: 6 Mar 2019 11:04

Tgt Ion: 129 Resp: 49712

Ion Ratio Lower Upper

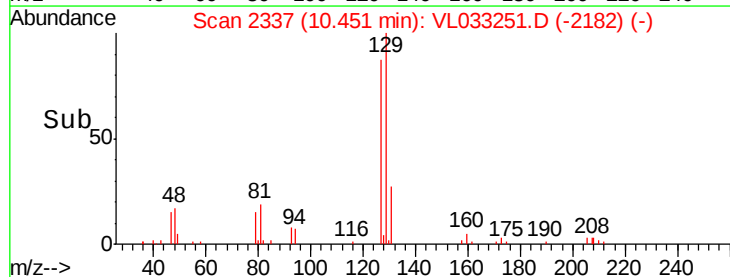
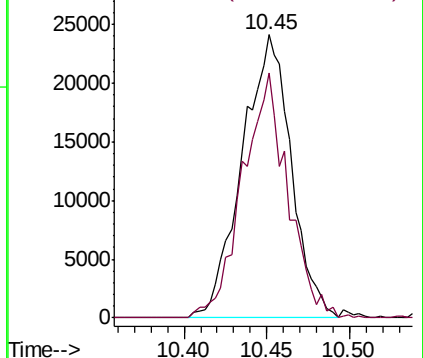
129 100

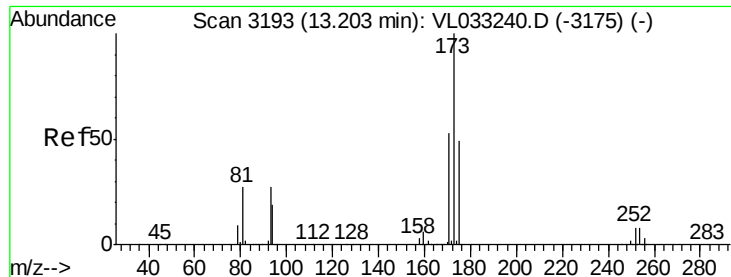
127 79.7 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

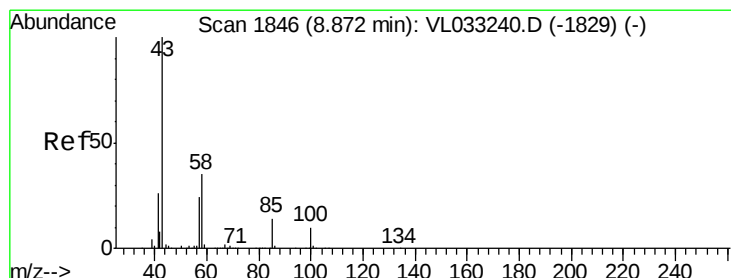
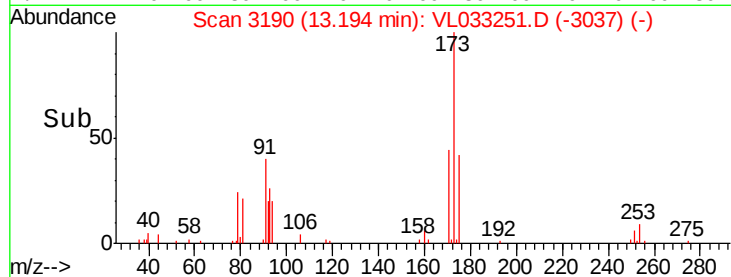
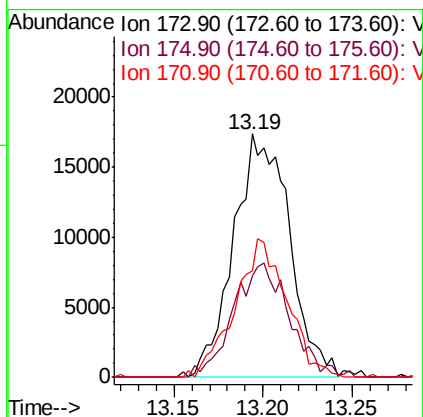
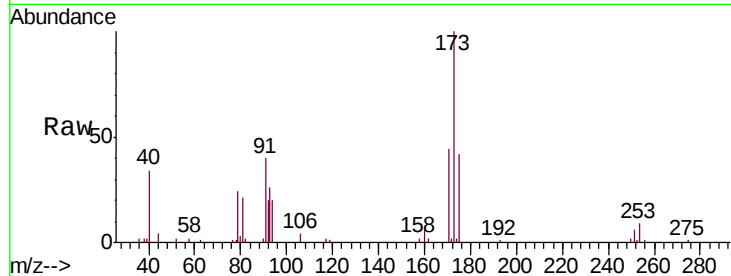
Ion 127.00 (126.70 to 127.70): V





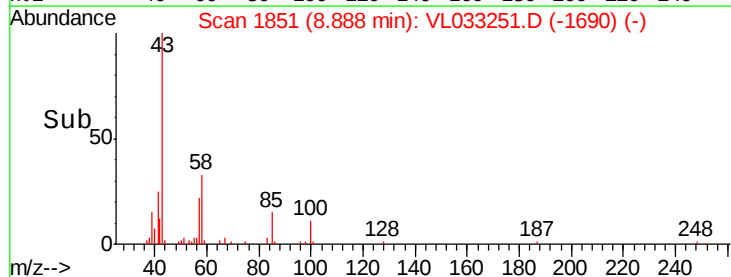
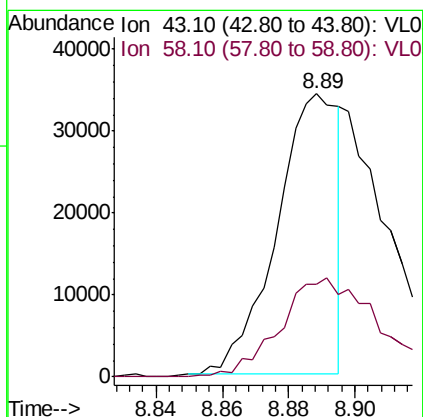
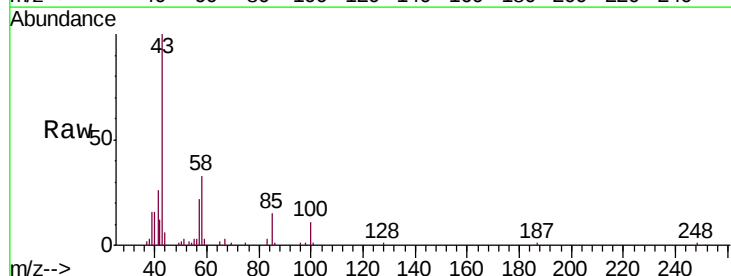
#49
Bromoform
Concen: 0.333 ppbv
RT: 13.19 min Scan# 3190
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

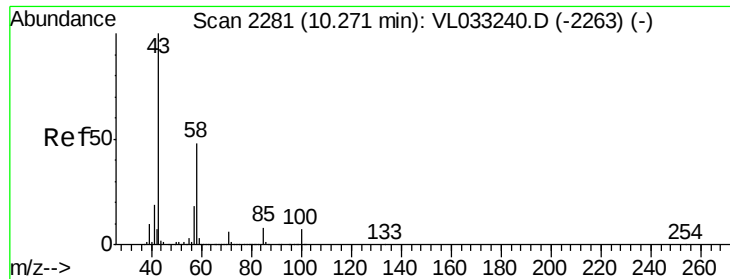
Tgt Ion: 173 Resp: 37760
Ion Ratio Lower Upper
173 100
175 47.7 38.9 58.3
171 53.2 41.4 62.0



#50
4-Methyl-2-Pentanone
Concen: 0.195 ppbv
RT: 8.89 min Scan# 1851
Delta R.T. 0.02 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

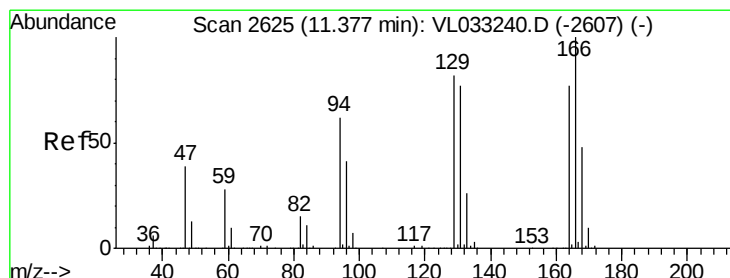
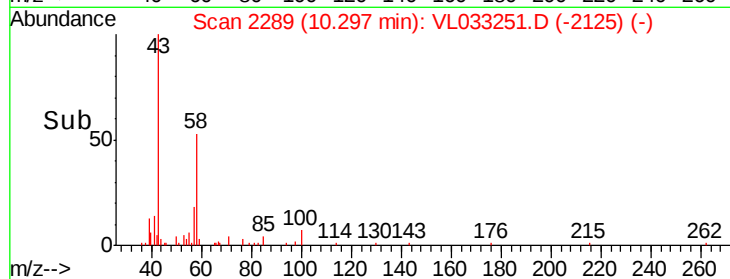
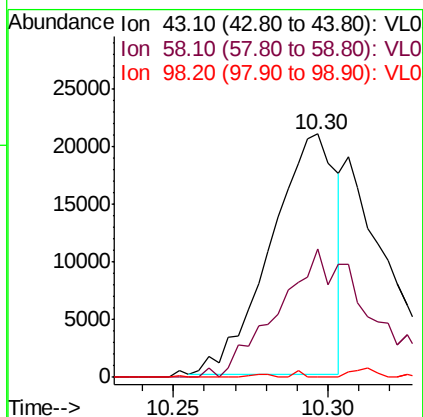
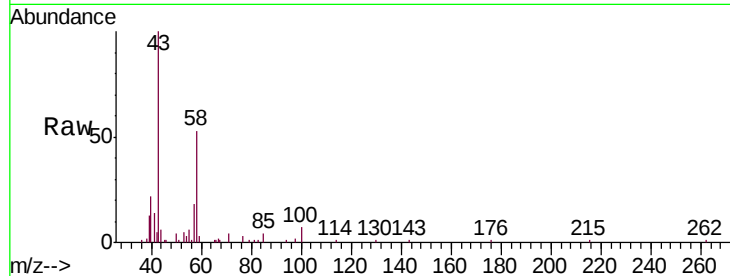
Tgt Ion: 43 Resp: 44332
Ion Ratio Lower Upper
43 100
58 59.0 27.8 41.6#





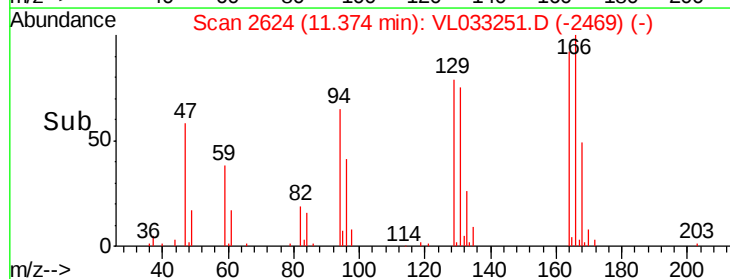
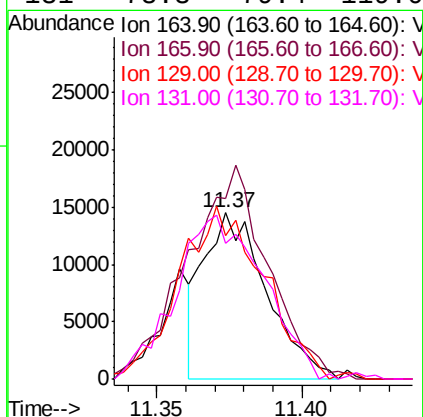
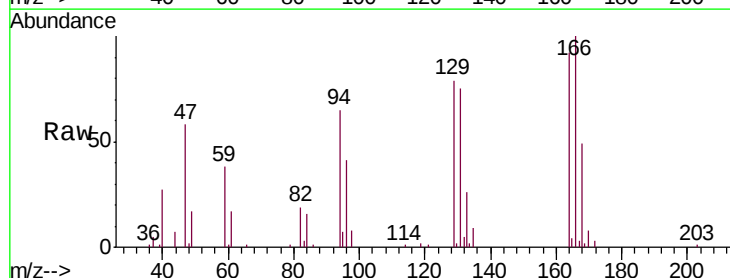
#51
2-Hexanone
Concen: 0.180 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. 0.03 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

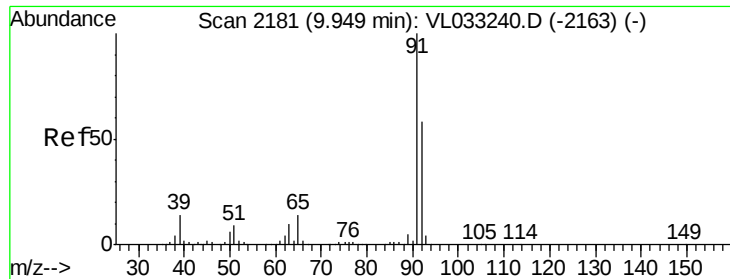
Tgt Ion: 43 Resp: 30654
Ion Ratio Lower Upper
43 100
58 81.4 38.2 57.2#
98 0.4 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.280 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion: 164 Resp: 21716
Ion Ratio Lower Upper
164 100
166 99.4 103.3 154.9#
129 81.7 84.4 126.6#
131 78.3 79.4 119.0#





#53

Toluene

Concen: 0.323 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033251.D

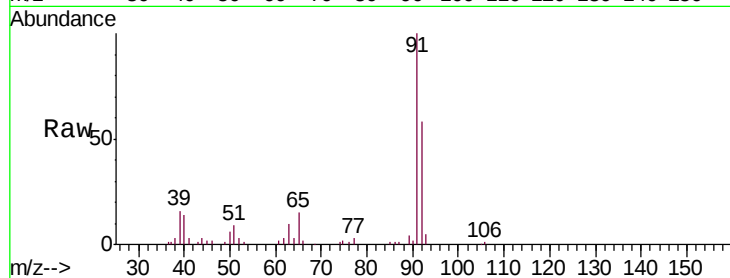
Acq: 6 Mar 2019 11:04

Tgt Ion: 91 Resp: 77838

Ion Ratio Lower Upper

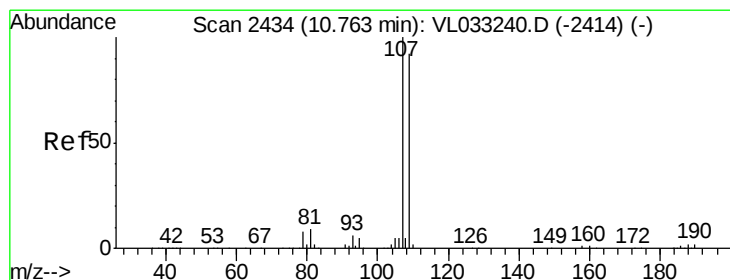
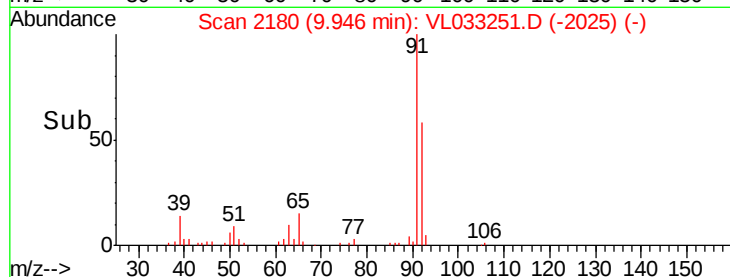
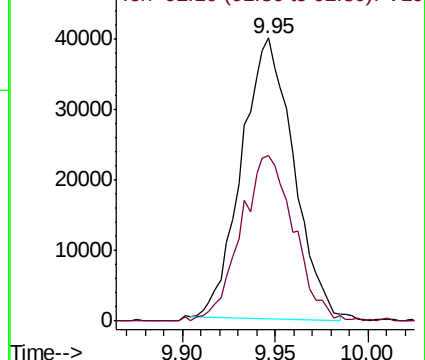
91 100

92 60.6 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.350 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033251.D

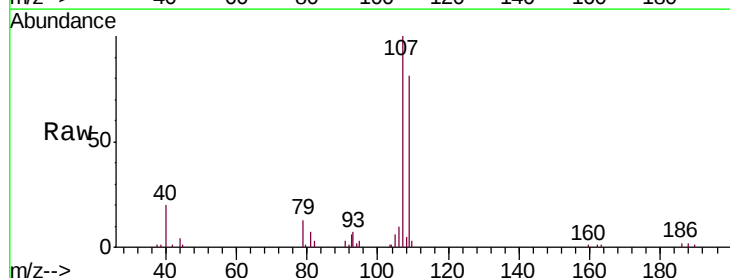
Acq: 6 Mar 2019 11:04

Tgt Ion: 107 Resp: 46550

Ion Ratio Lower Upper

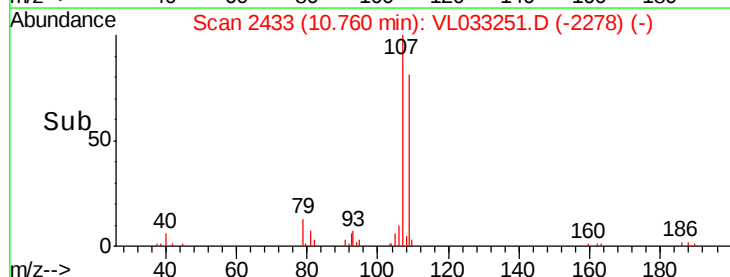
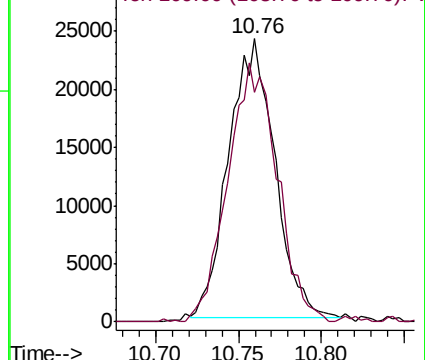
107 100

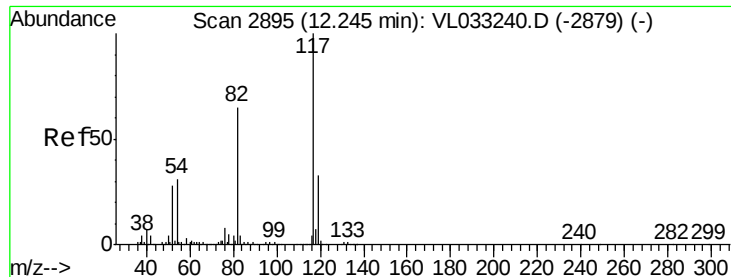
109 83.9 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

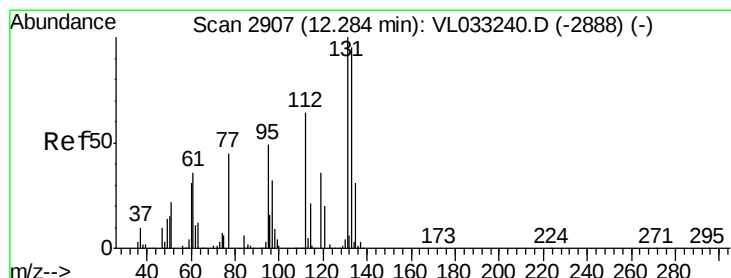
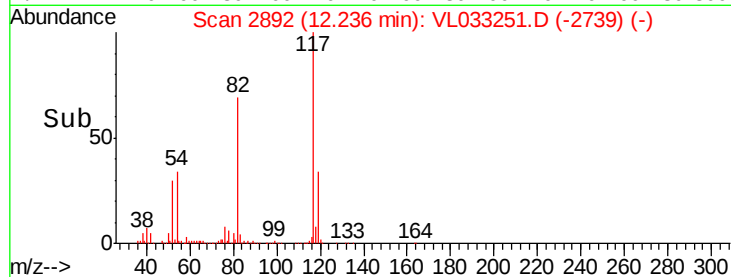
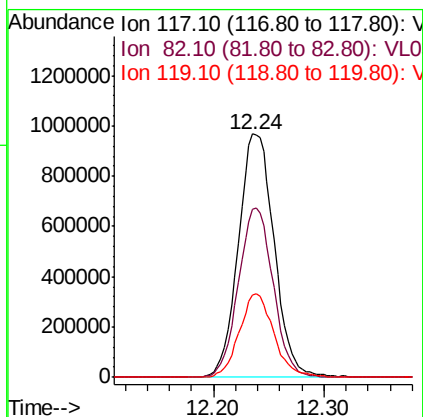
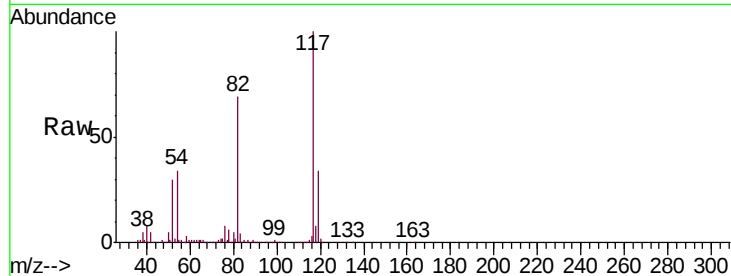
Ion 109.00 (108.70 to 109.70): V





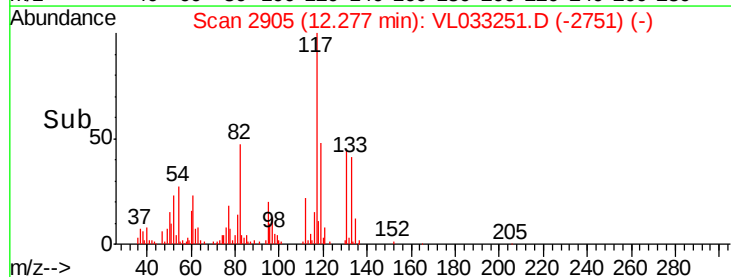
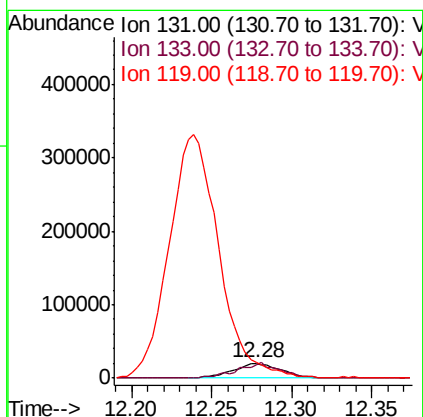
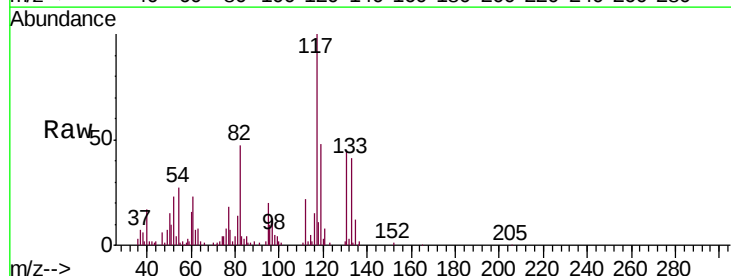
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

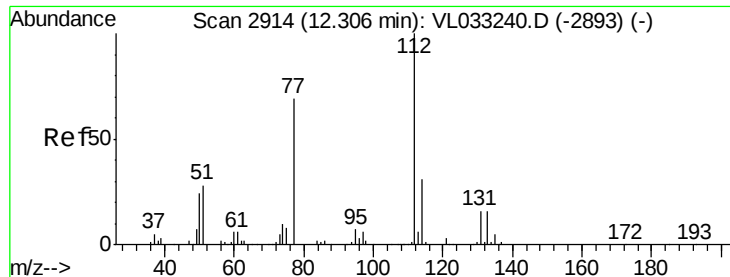
Tgt Ion:117 Resp: 2178957
Ion Ratio Lower Upper
117 100
82 67.7 51.8 77.8
119 33.2 43.6 65.4#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.432 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

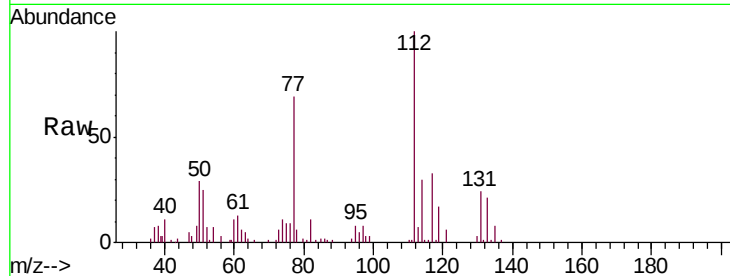
Tgt Ion:131 Resp: 40871
Ion Ratio Lower Upper
131 100
133 93.3 76.2 114.2
119 1770.5 108.9 163.3#



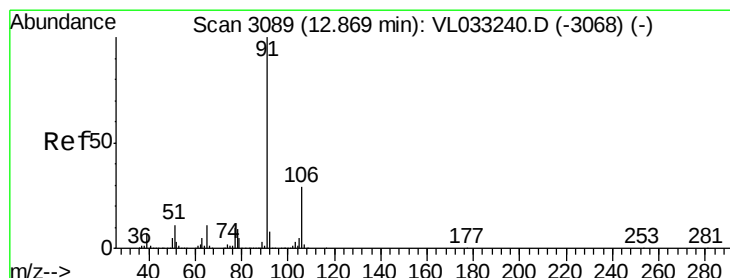
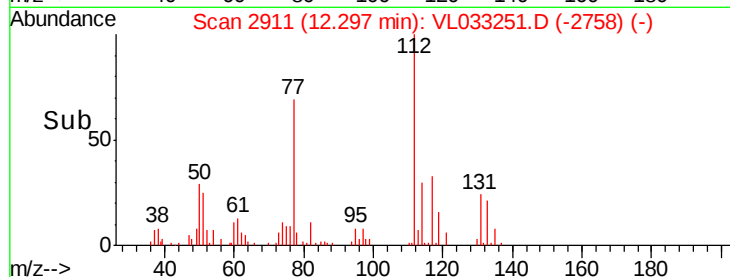
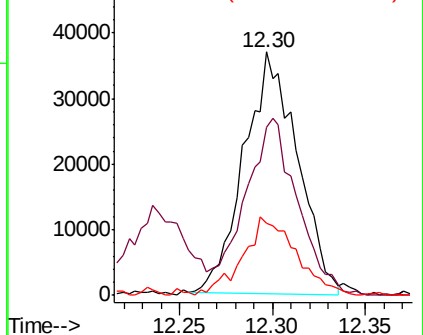


#57
Chlorobenzene
Concen: 0.436 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion: 112 Resp: 73904
Ion Ratio Lower Upper
112 100
77 65.4 56.5 84.7
114 29.6 28.4 34.7

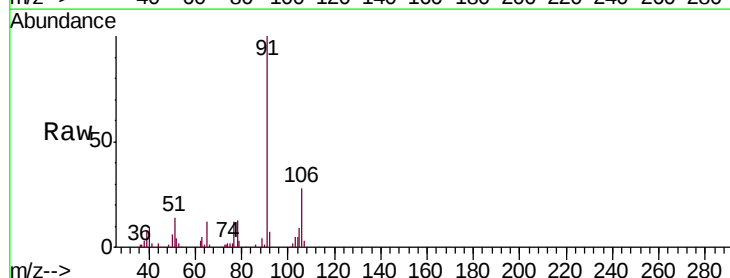


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

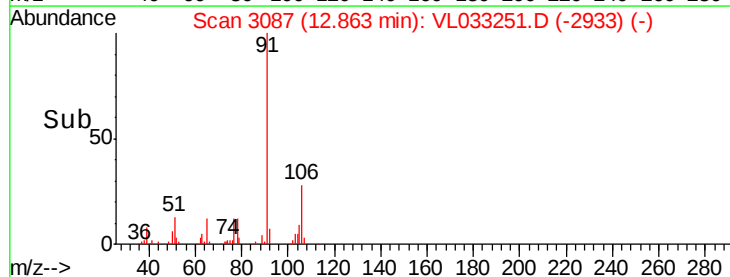
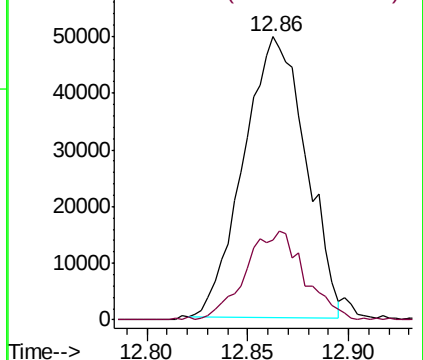


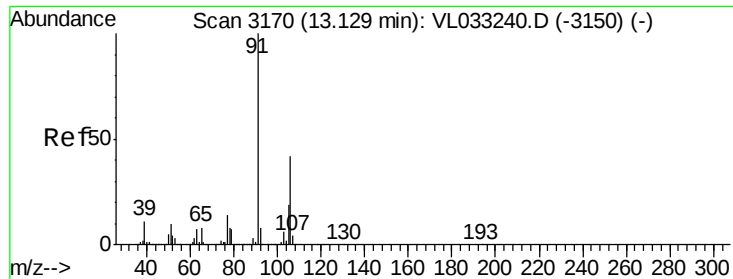
#58
Ethyl Benzene
Concen: 0.354 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion: 91 Resp: 106615
Ion Ratio Lower Upper
91 100
106 27.5 23.5 35.3



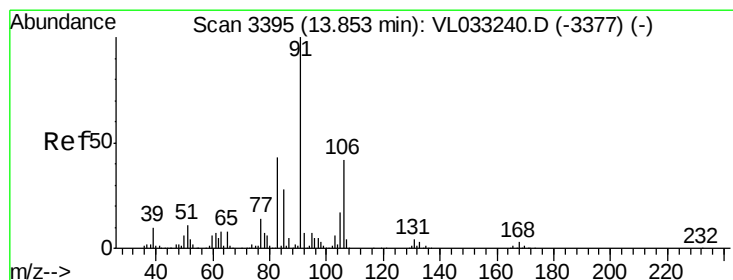
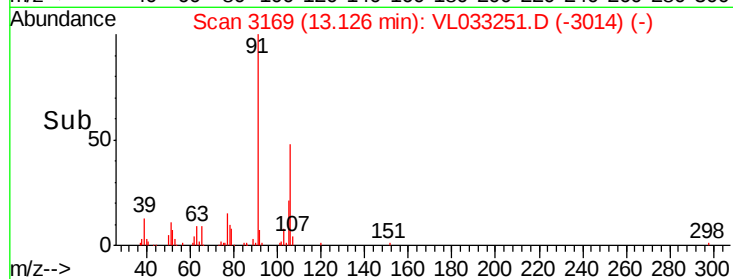
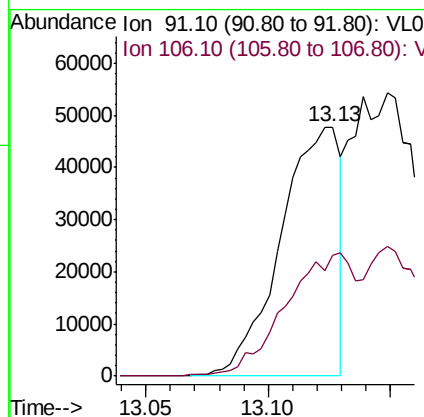
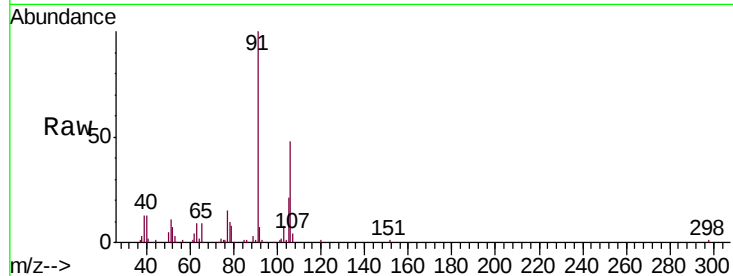
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





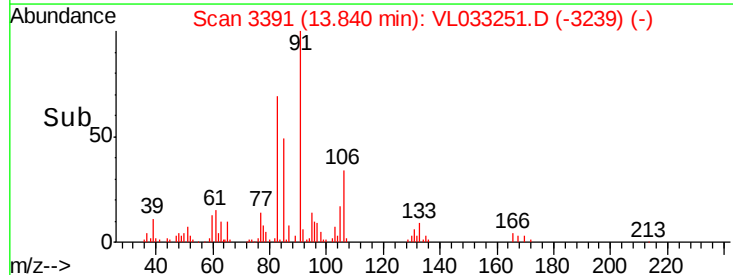
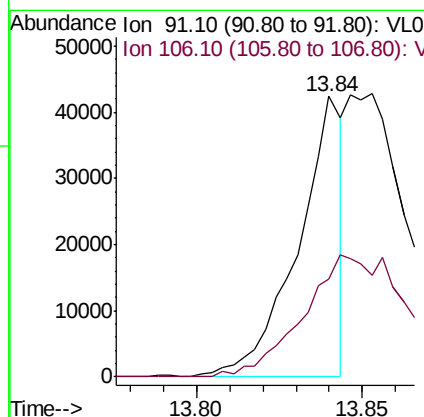
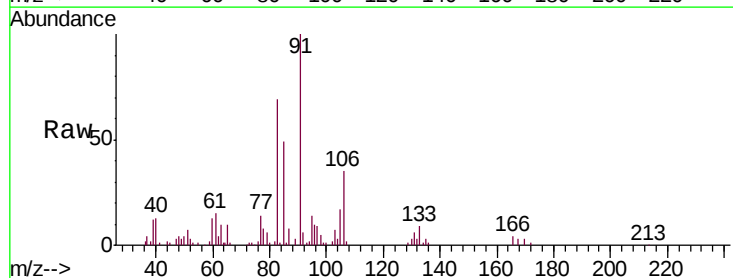
#59
m/p-Xylene
Concen: 0.313 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

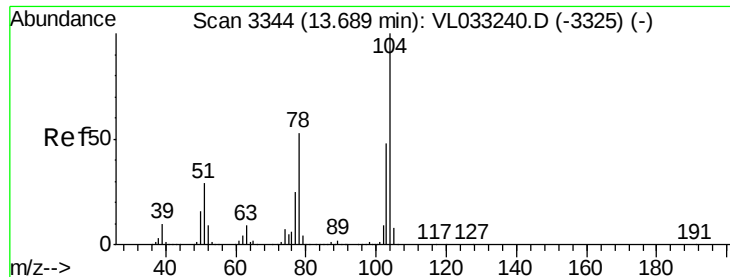
Tgt Ion: 91 Resp: 80505
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#



#60
o-Xylene
Concen: 0.161 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

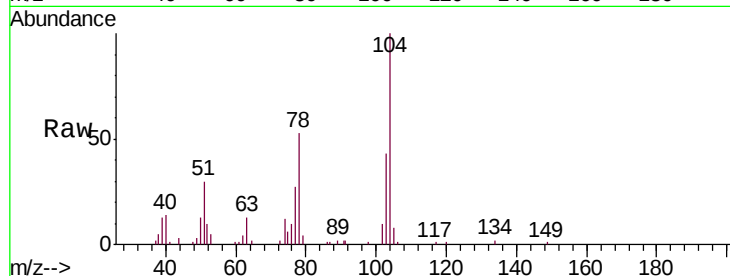
Tgt Ion: 91 Resp: 39503
Ion Ratio Lower Upper
91 100
106 100.5 21.4 64.3#



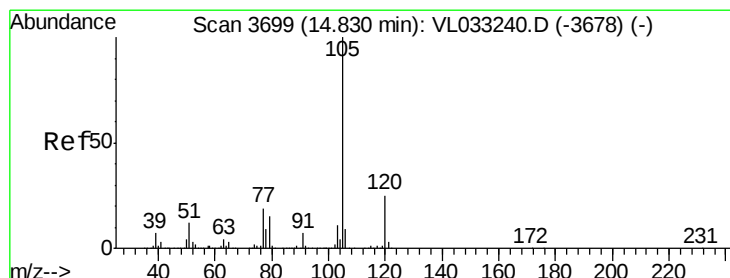
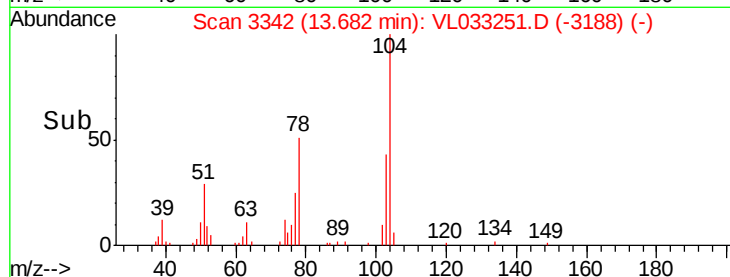
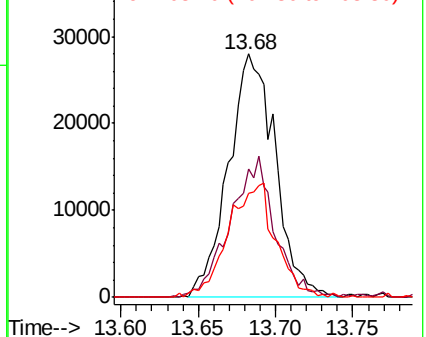


#61
Styrene
Concen: 0.342 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion:104 Resp: 58947
Ion Ratio Lower Upper
104 100
78 55.9 43.7 65.5
103 47.7 38.2 57.2

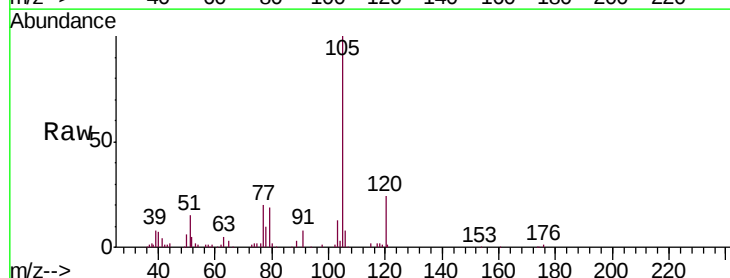


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

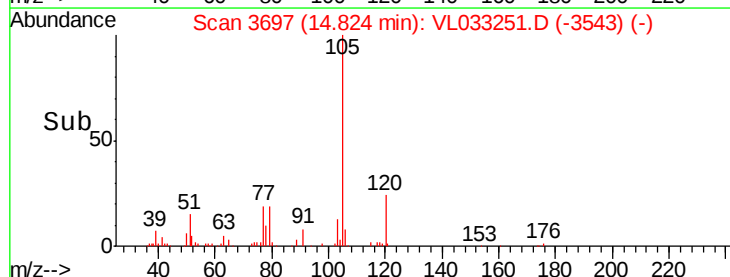
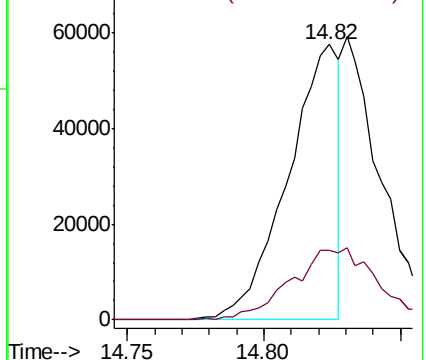


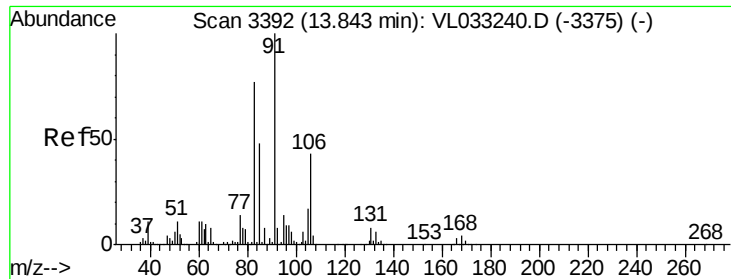
#62
Isopropylbenzene
Concen: 0.221 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

Tgt Ion:105 Resp: 75494
Ion Ratio Lower Upper
105 100
120 0.0 20.1 30.1#



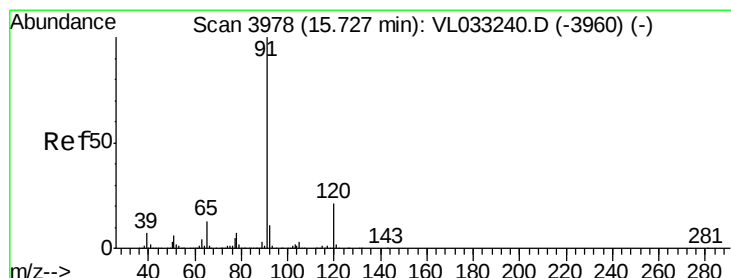
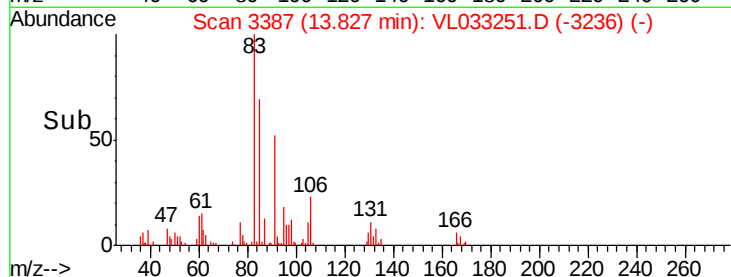
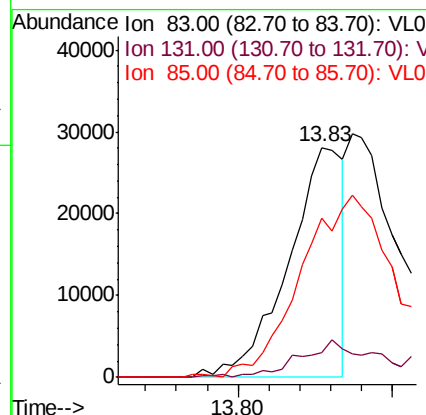
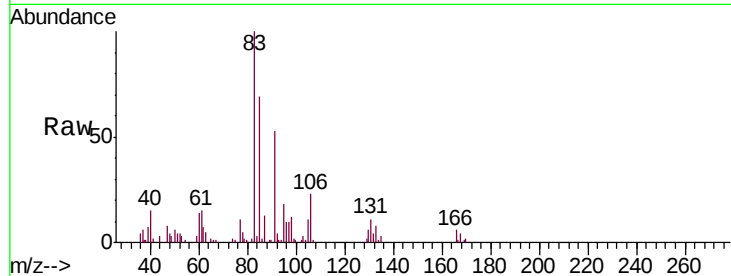
Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





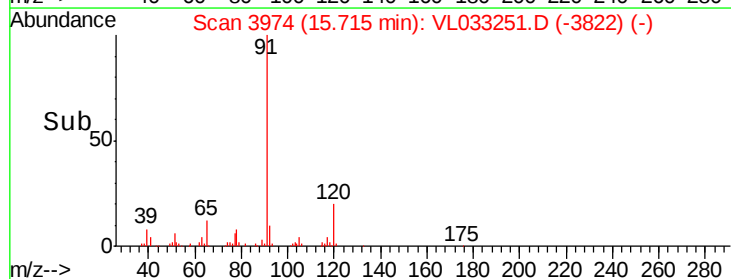
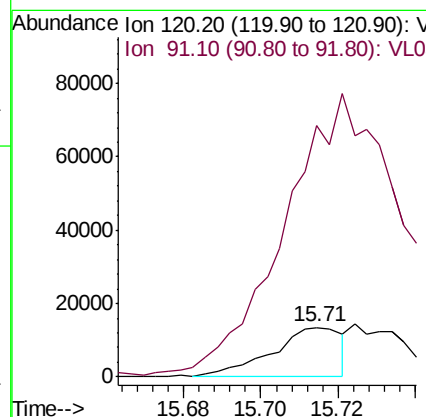
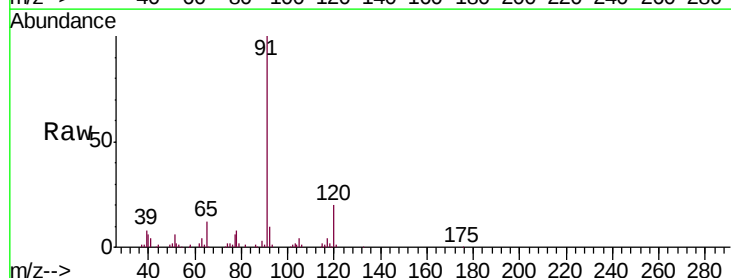
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.199 ppbv
 RT: 13.83 min Scan# 3387
 Delta R.T. -0.02 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

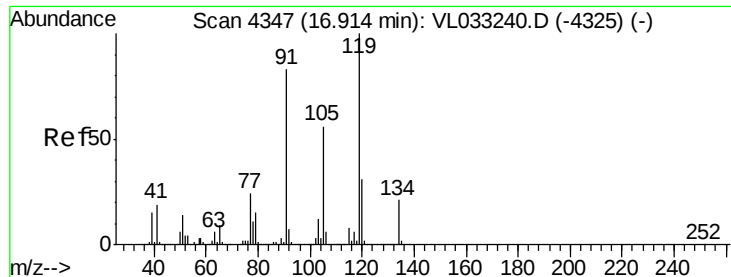
Tgt Ion: 83 Resp: 34611
 Ion Ratio Lower Upper
 83 100
 131 24.0 4.7 14.0#
 85 0.0 32.6 97.8#



#64
 n-propylbenzene
 Concen: 0.199 ppbv
 RT: 15.71 min Scan# 3974
 Delta R.T. -0.01 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion: 120 Resp: 16862
 Ion Ratio Lower Upper
 120 100
 91 586.5 392.2 588.4





#65

tert-Butylbenzene

Concen: 0.370 ppbv

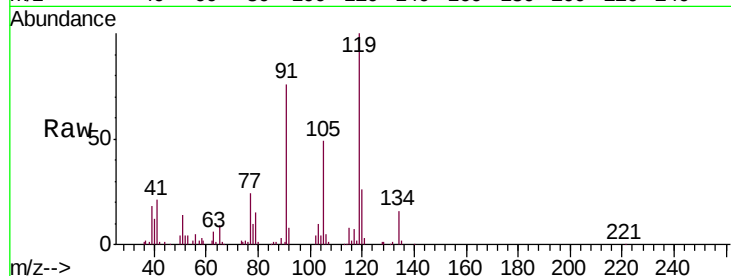
RT: 16.91 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

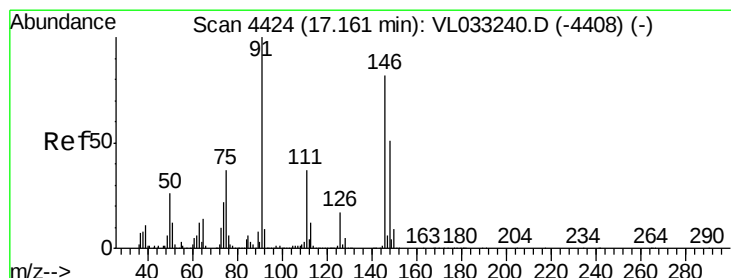
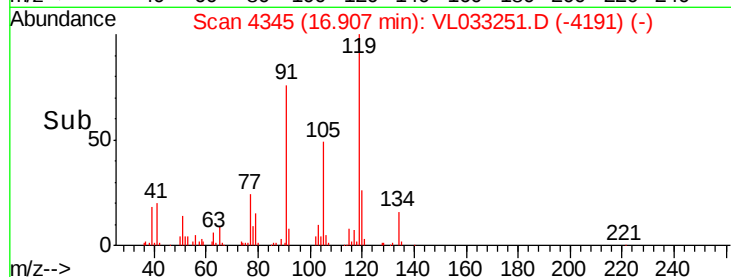
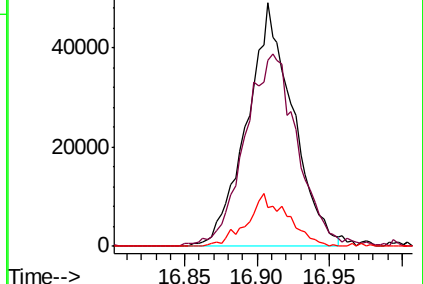
Tgt Ion:	119	Resp:	107772
Ion	Ratio	Lower	Upper
119	100		
91	91.9	67.0	100.4
134	19.0	15.4	23.2



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.114 ppbv

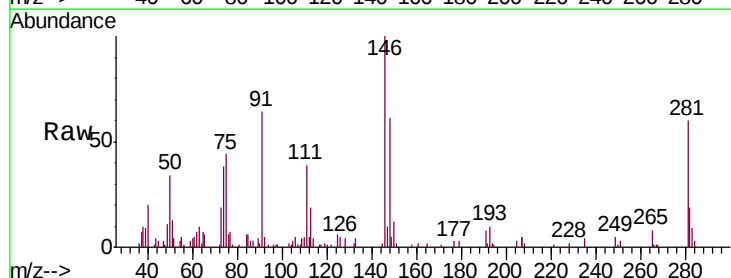
RT: 17.15 min Scan# 4421

Delta R.T. -0.01 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

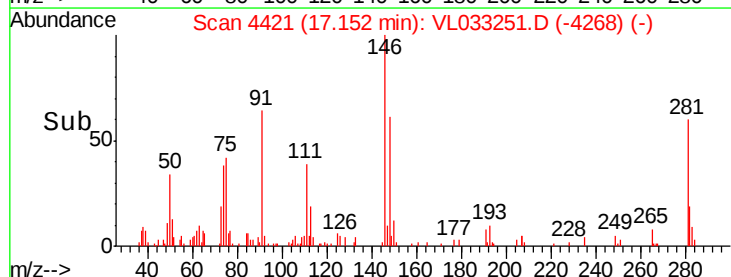
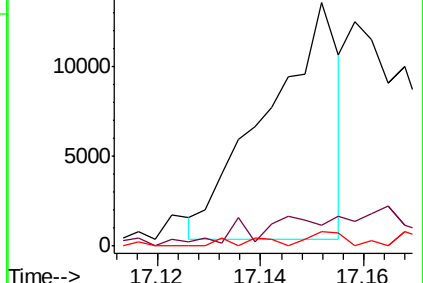
Tgt Ion:	91	Resp:	12817
Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.4	20.0#
128	4.9	4.2	6.2

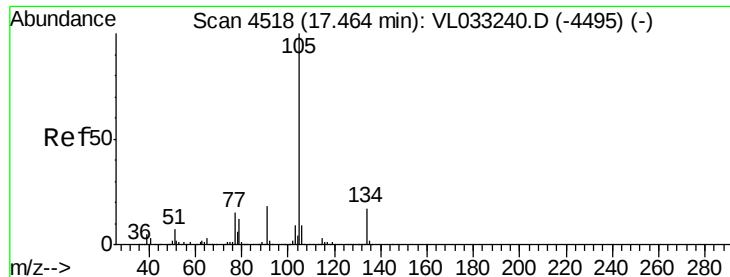


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

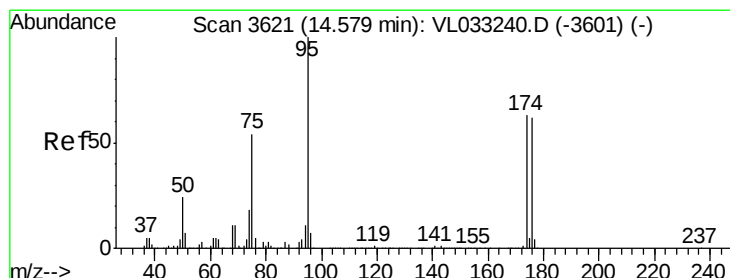
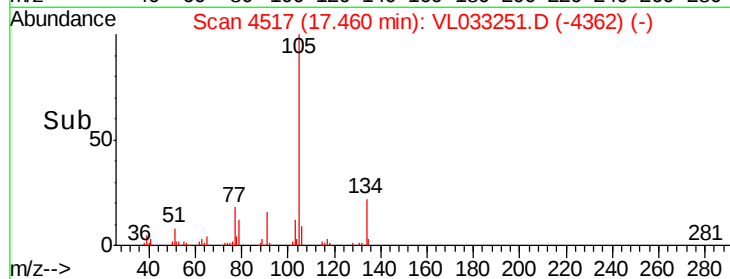
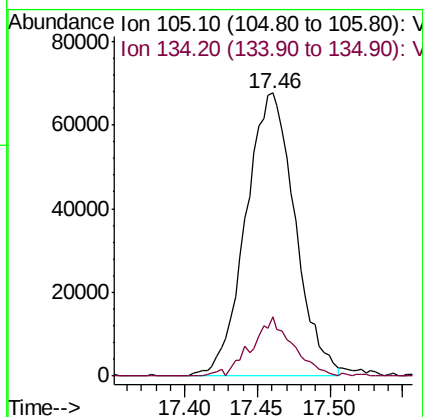
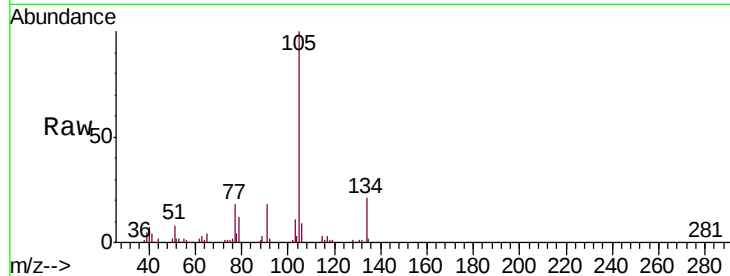
Ion 128.10 (127.80 to 128.80): V





#67
 sec-Butylbenzene
 Concen: 0.384 ppbv
 RT: 17.46 min Scan# 4517
 Delta R.T. -0.00 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion: 105 Resp: 159579
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.2 21.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.219 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion: 95 Resp: 1689629
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.0 76.4
 175 4.6 3.8 5.6

