

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033213.D
 Acq On : 15 Feb 2019 00:53
 Operator : SY/AP
 Sample : K1483-06
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:20:36 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	5.77	49	964436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2103016	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2074358	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1677308	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	87176	0.473	ppbv	96
3) Chlorodifluoromethane	3.02	51	40937	0.353	ppbv	94
4) Chloromethane	3.17	50	11235	0.183	ppbv	90
7) Chloroethane	3.60	64	118657	5.669	ppbv	96
9) Propene	3.24	41	105464	1.880	ppbv	96
10) Heptane	8.25	43	24017	0.142	ppbv	100
11) Trichlorofluoromethane	4.01	101	99976	0.670	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	273729	2.646	ppbv	99
13) Ethanol	3.66	45	143437	7.668	ppbv	98
15) Acetone	3.91	43	531134	4.888	ppbv	91
16) 1,3-Butadiene	3.35	39	29912	0.580	ppbv #	13
17) tert-Butyl alcohol	4.37	59	23267	1.123	ppbv #	74
18) 1,1-Dichloroethene	4.35	96	169578	3.662	ppbv	99
19) Isopropyl Alcohol	4.04	45	208530	2.830	ppbv #	98
20) Methylene Chloride	4.41	84	130279	3.014	ppbv	94
21) Allyl Chloride	4.44	41	4712	0.066	ppbv #	20
22) trans-1,2-Dichloroethene	4.97	96	15999	0.356	ppbv #	76
23) Vinyl Acetate	5.15	43	23321	0.124	ppbv #	9
24) 1,1-Dichloroethane	5.09	63	7486220	56.203	ppbv	98
25) Ethyl Acetate	5.78	43	163898	0.671	ppbv #	79
26) Hexane	5.78	57	219242	1.912	ppbv #	43
27) Carbon Disulfide	4.62	76	4299	0.041	ppbv #	18
29) Chloroform	5.86	83	29610	0.168	ppbv #	75
30) Cyclohexane	7.26	84	4432	0.042	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	25693	0.224	ppbv	90
32) 1,1,1-Trichloroethane	6.63	97	19618276	101.373	ppbv	88
34) 2-Butanone	5.34	43	72316	0.542	ppbv	97
36) Benzene	7.01	78	43080	0.202	ppbv #	90
37) 1,2-Dichloroethane	6.42	62	21670	0.183	ppbv #	82
38) Trichloroethene	7.97	130	77019	0.844	ppbv	94
39) 1,2-Dichloropropane	7.30	63	574095	6.820	ppbv #	26
40) 1,4-Dioxane	7.98	88	29766	0.973	ppbv #	1
41) Tetrahydrofuran	6.16	42	12311	0.149	ppbv	95
44) 2,2,4-Trimethylpentane	8.00	57	34501	0.096	ppbv #	18
47) 1,1,2-Trichloroethane	9.61	97	4209	0.048	ppbv #	15
52) Tetrachloroethene	11.37	164	115414	1.409	ppbv	89
53) Toluene	9.95	91	141466	0.561	ppbv	99
58) Ethyl Benzene	12.87	91	138981	0.414	ppbv	91
59) m/p-Xylene	13.12	91	642593	2.294	ppbv #	100
60) o-Xylene	13.85	91	167549	0.615	ppbv	98
72) 4-Ethyltoluene	16.00	105	20864	0.066	ppbv #	58

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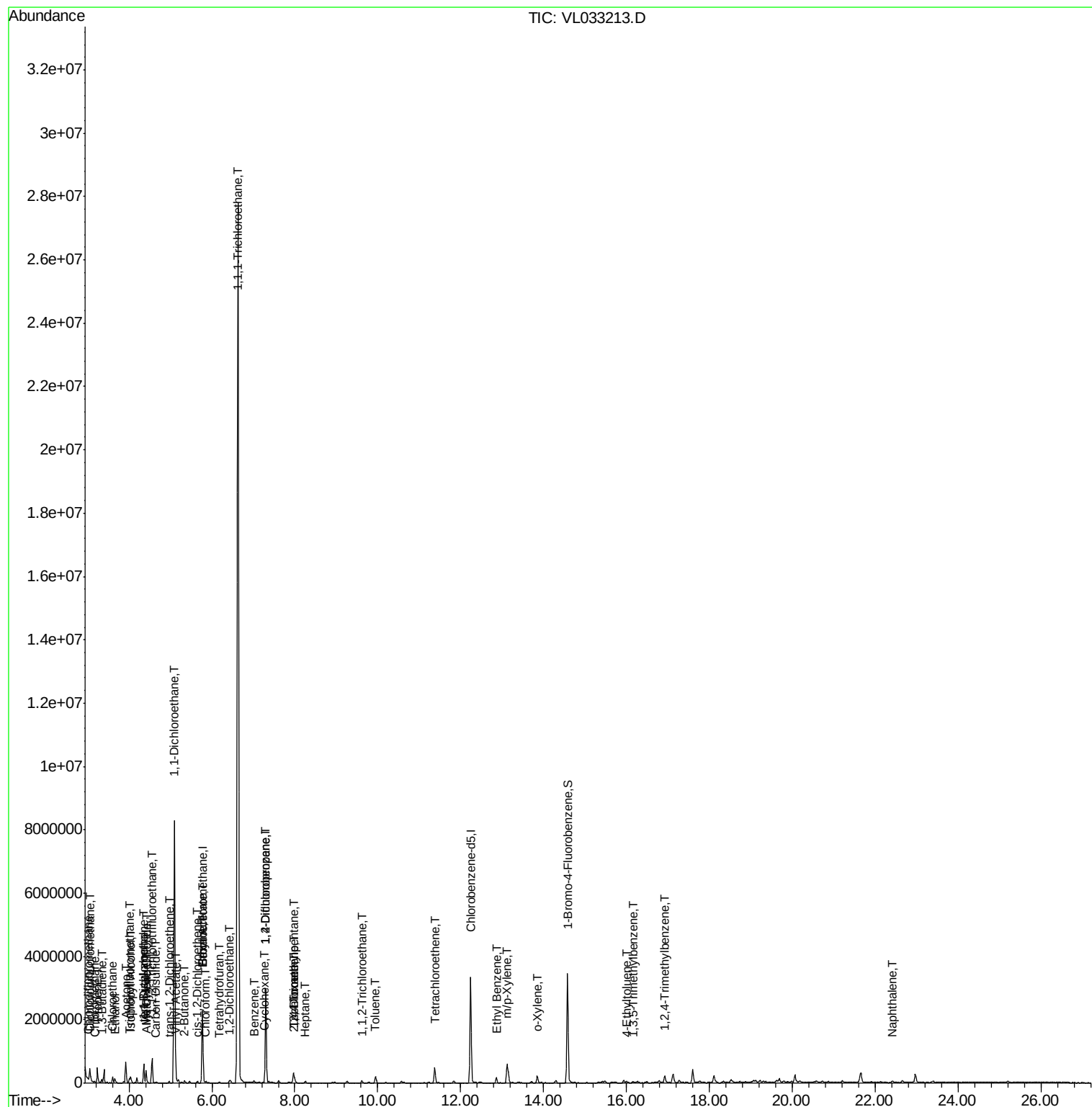
Quant Time: Feb 15 04:20:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

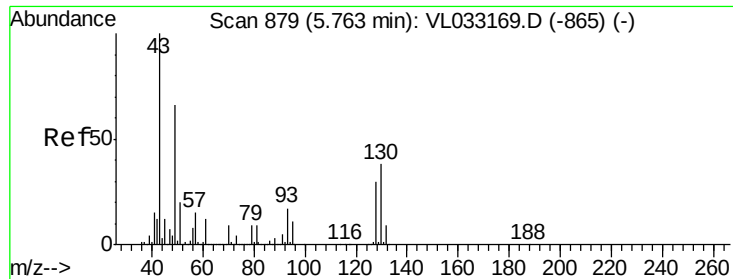
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	16.16	105	13407	0.045	ppbv	90
74) 1,2,4-Trimethylbenzene	16.92	105	102948	0.330	ppbv #	80
79) Naphthalene	22.42	128	15446	0.046	ppbv #	90

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

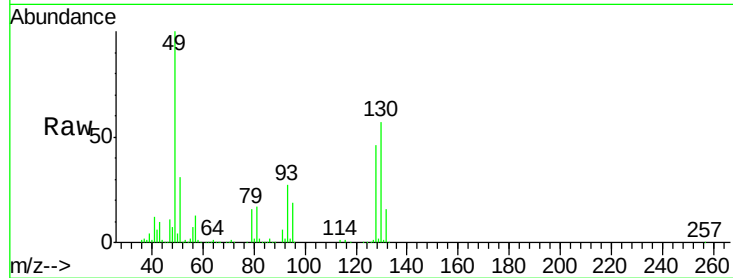
Tgt Ion: 49 Resp: 964436

Ion Ratio Lower Upper

49 100

128 45.3 23.6 71.0

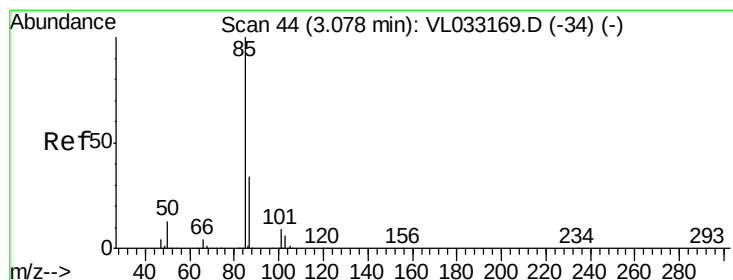
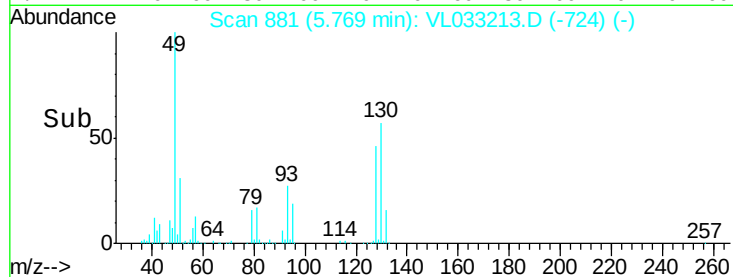
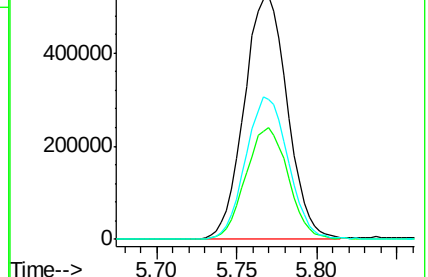
130 58.2 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.473 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033213.D

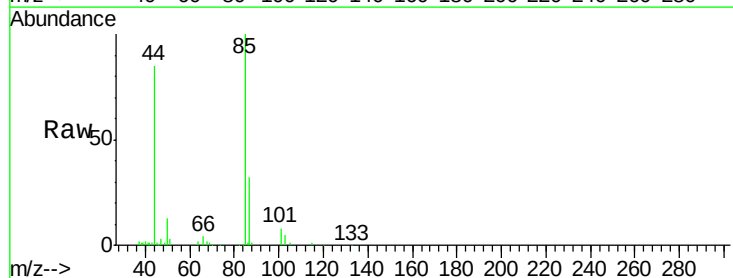
Acq: 15 Feb 2019 00:53

Tgt Ion: 85 Resp: 87176

Ion Ratio Lower Upper

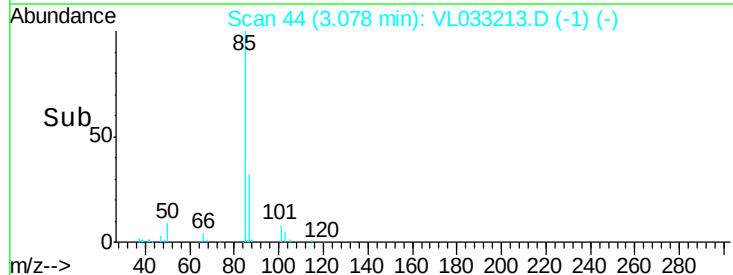
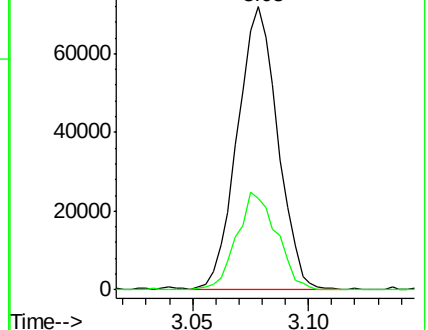
85 100

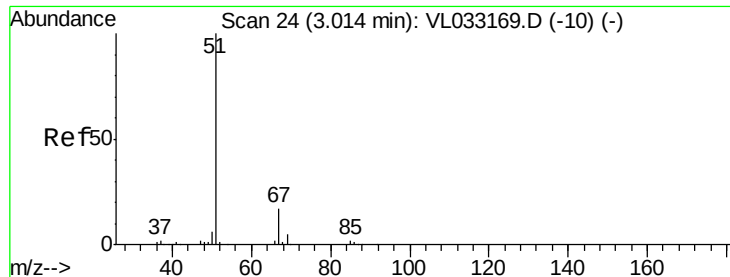
87 31.8 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.353 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033213.D

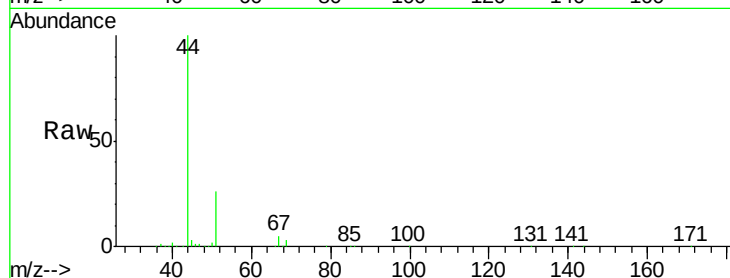
Acq: 15 Feb 2019 00:53

Tgt Ion: 51 Resp: 40937

Ion Ratio Lower Upper

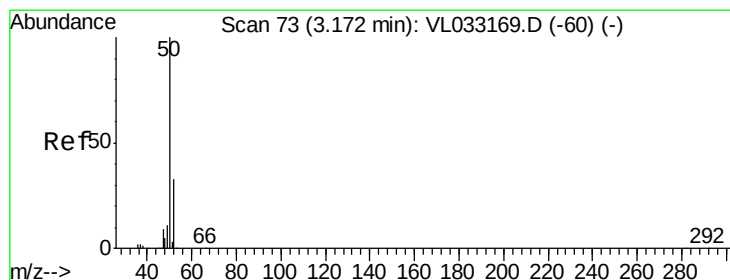
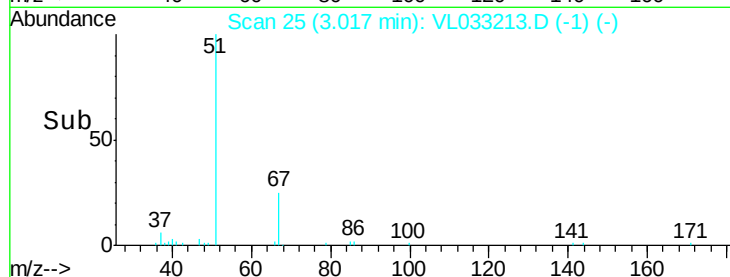
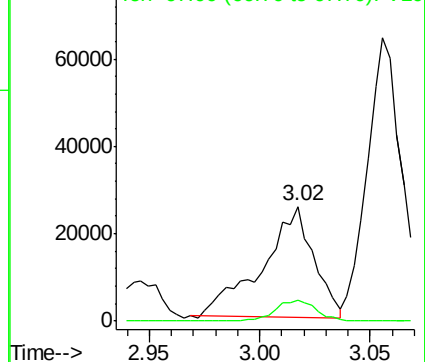
51 100

67 15.0 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.183 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033213.D

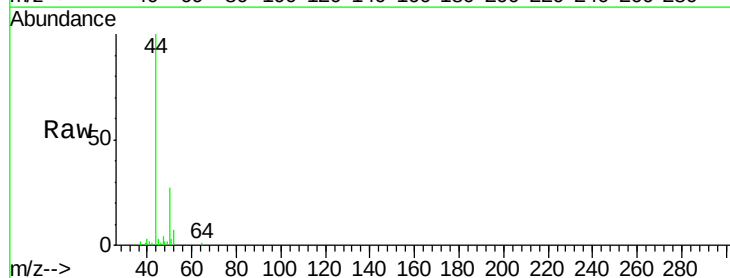
Acq: 15 Feb 2019 00:53

Tgt Ion: 50 Resp: 11235

Ion Ratio Lower Upper

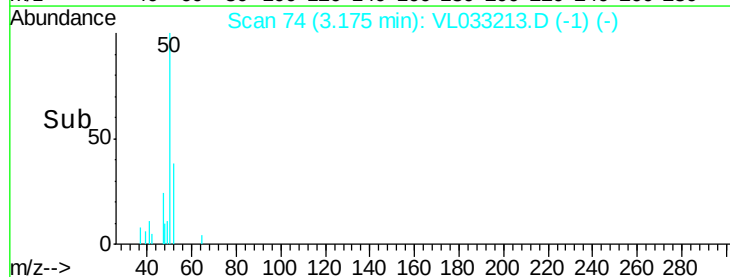
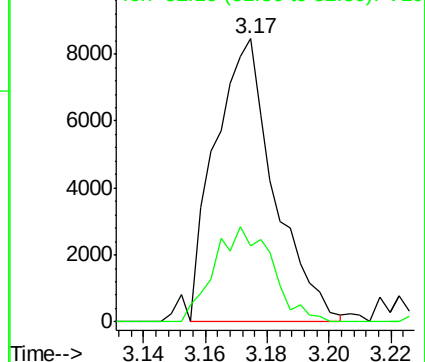
50 100

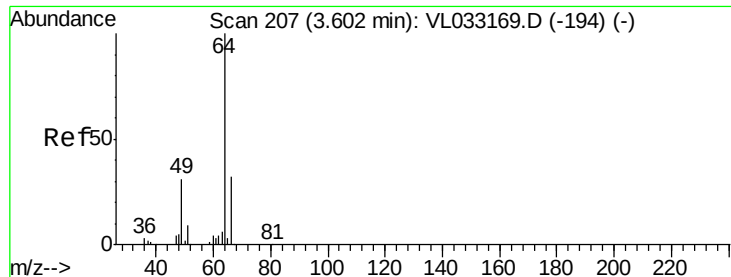
52 27.4 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 5.669 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033213.D

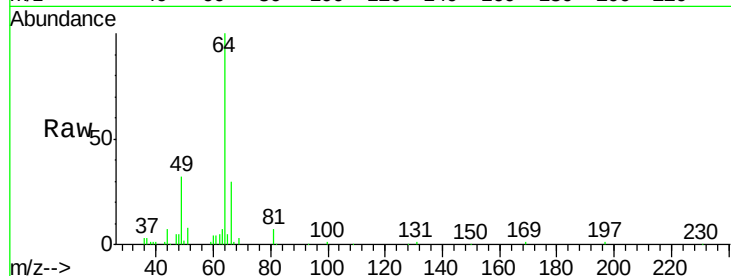
Acq: 15 Feb 2019 00:53

Tgt Ion: 64 Resp: 118657

Ion Ratio Lower Upper

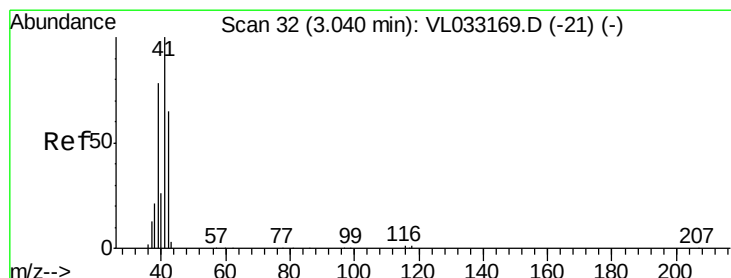
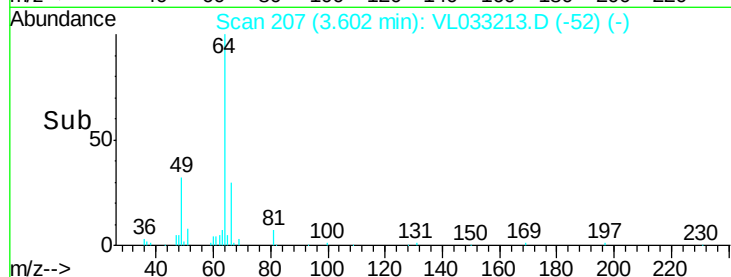
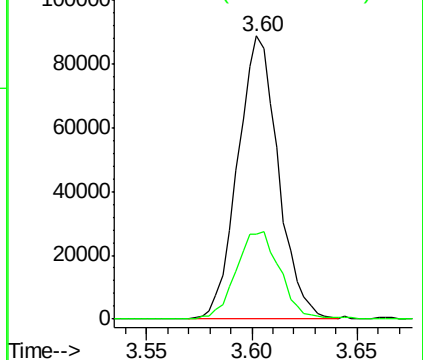
64 100

66 30.1 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.880 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033213.D

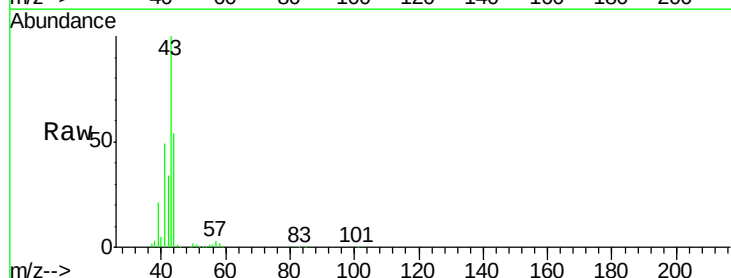
Acq: 15 Feb 2019 00:53

Tgt Ion: 41 Resp: 105464

Ion Ratio Lower Upper

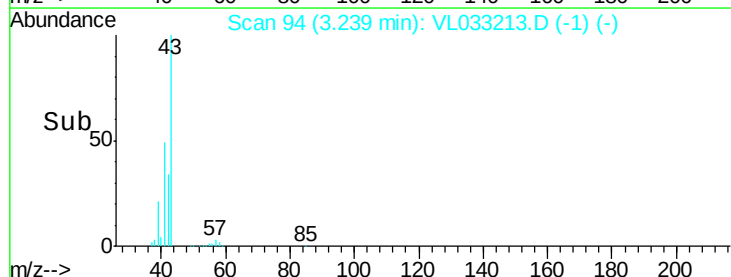
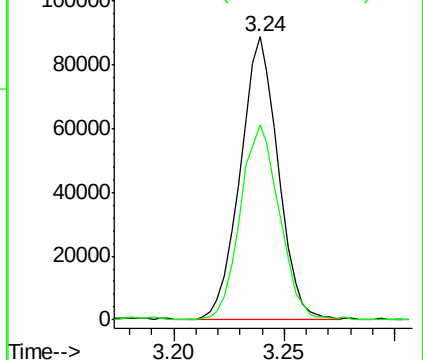
41 100

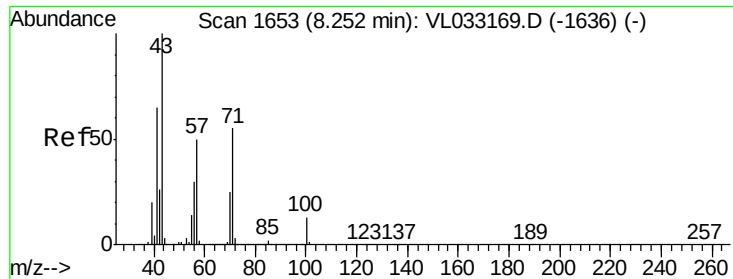
42 71.8 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.142 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033213.D

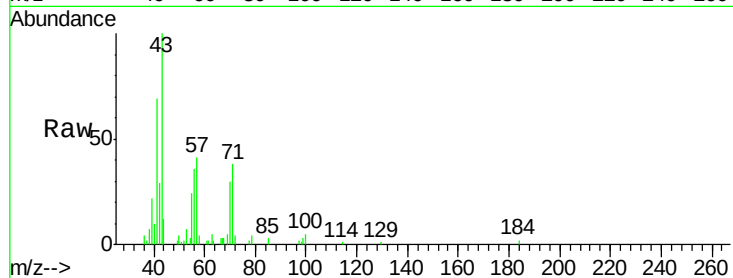
Acq: 15 Feb 2019 00:53

Tgt Ion: 43 Resp: 24017

Ion Ratio Lower Upper

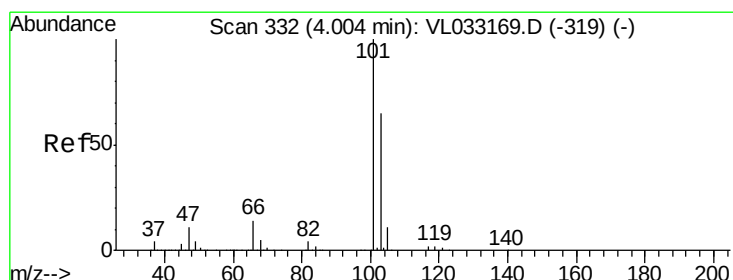
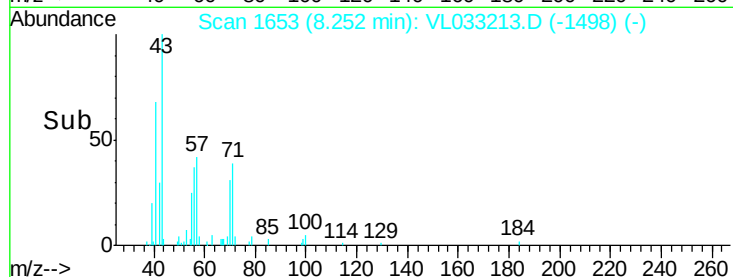
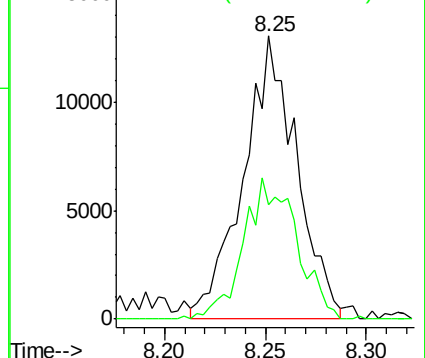
43 100

57 49.5 39.5 59.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.670 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL033213.D

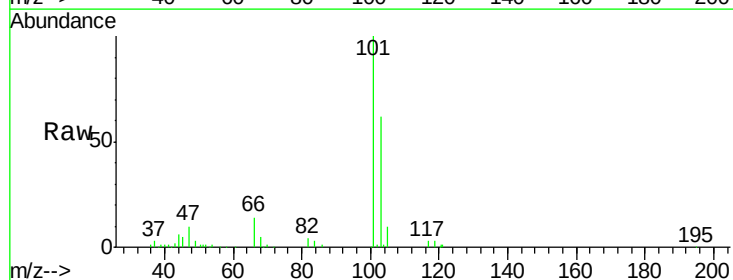
Acq: 15 Feb 2019 00:53

Tgt Ion: 101 Resp: 99976

Ion Ratio Lower Upper

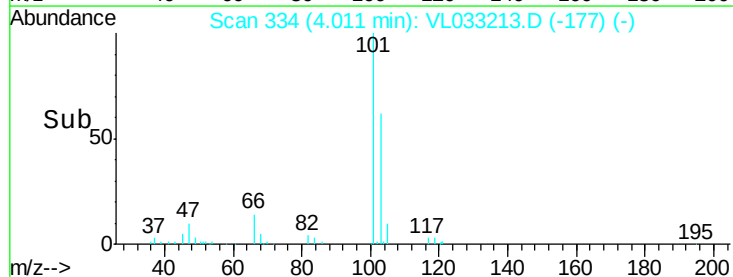
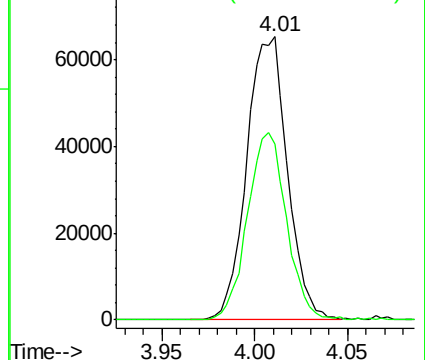
101 100

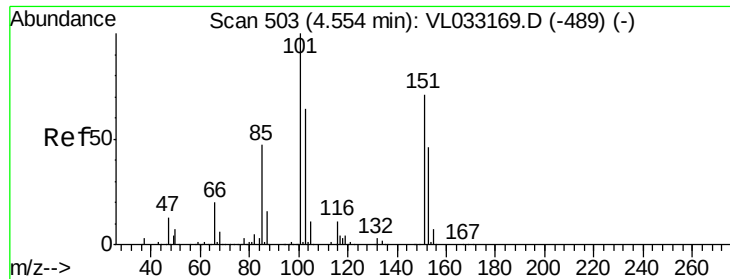
103 62.0 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.646 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL033213.D

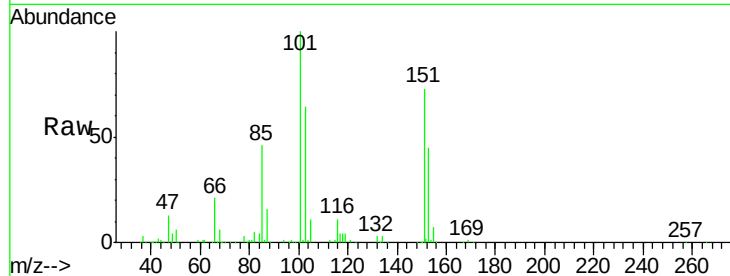
Acq: 15 Feb 2019 00:53

Tgt Ion: 101 Resp: 273729

Ion Ratio Lower Upper

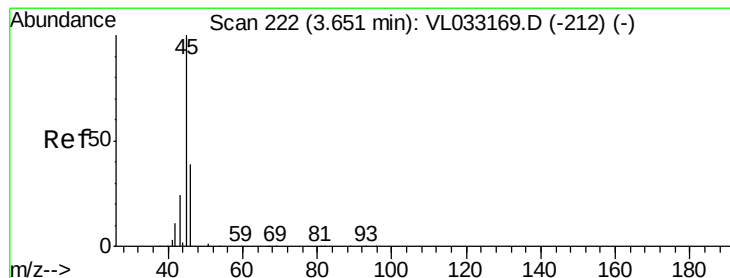
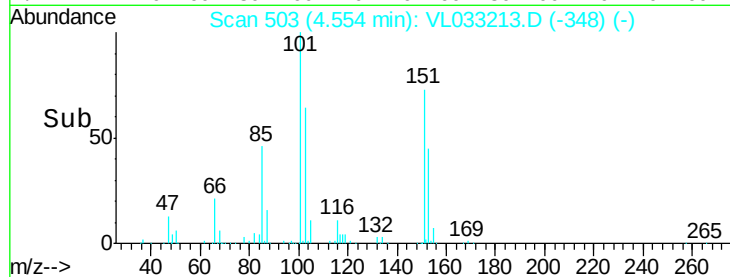
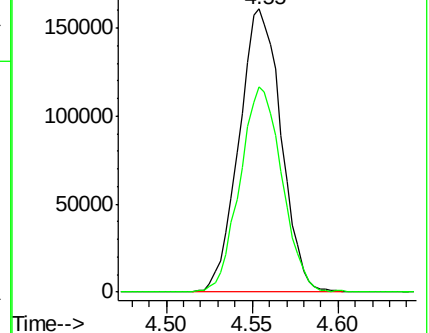
101 100

151 72.4 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: 7.668 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033213.D

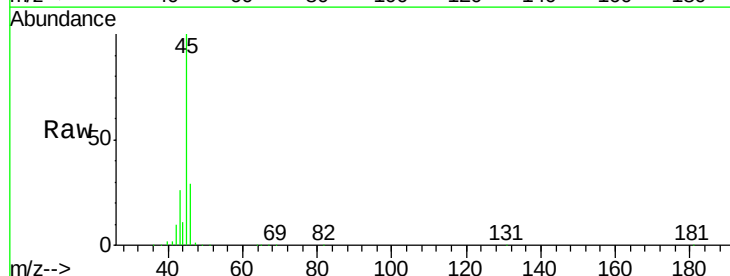
Acq: 15 Feb 2019 00:53

Tgt Ion: 45 Resp: 143437

Ion Ratio Lower Upper

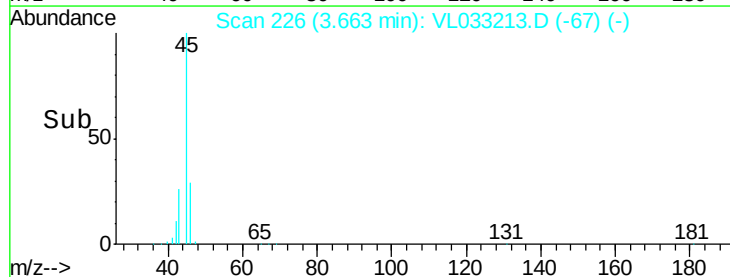
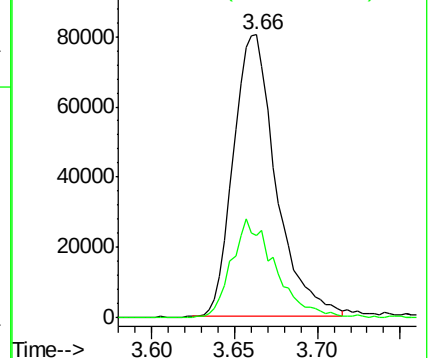
45 100

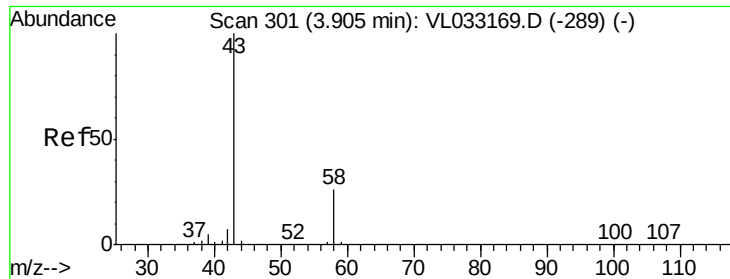
46 36.4 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.888 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033213.D

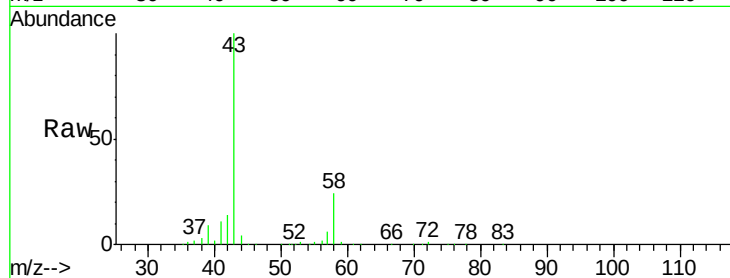
Acq: 15 Feb 2019 00:53

Tgt Ion: 43 Resp: 531134

Ion Ratio Lower Upper

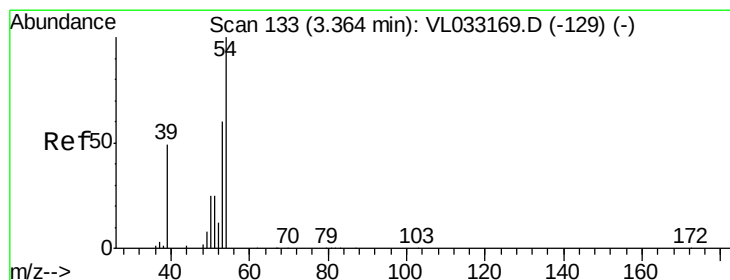
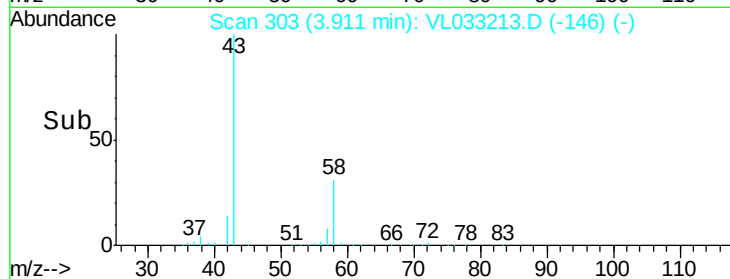
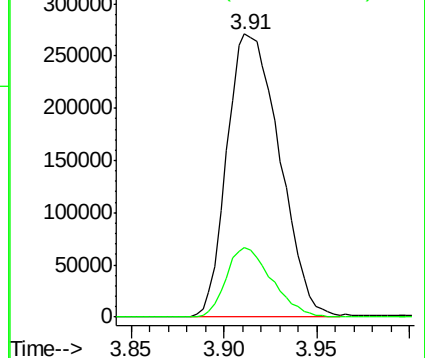
43 100

58 21.7 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.580 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033213.D

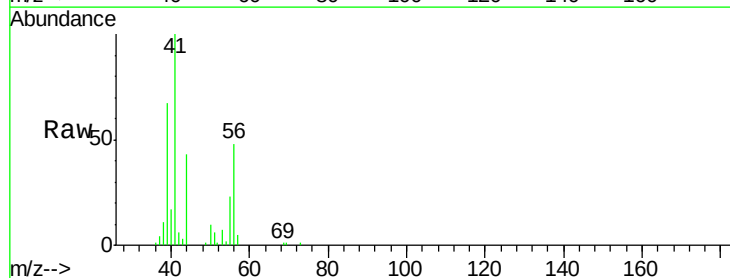
Acq: 15 Feb 2019 00:53

Tgt Ion: 39 Resp: 29912

Ion Ratio Lower Upper

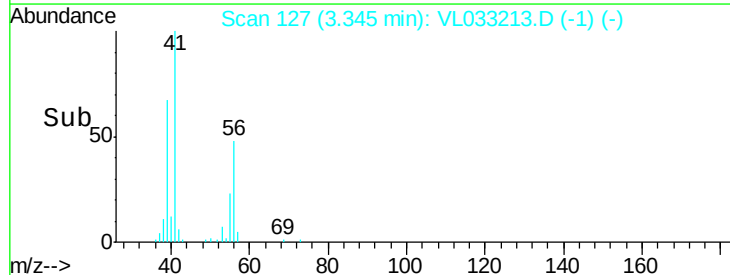
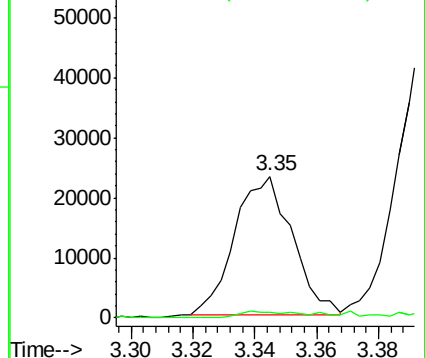
39 100

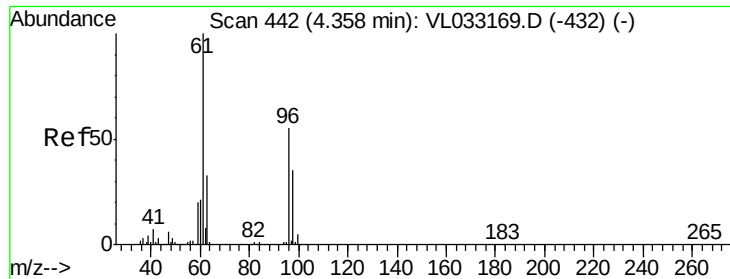
54 7.3 71.3 106.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

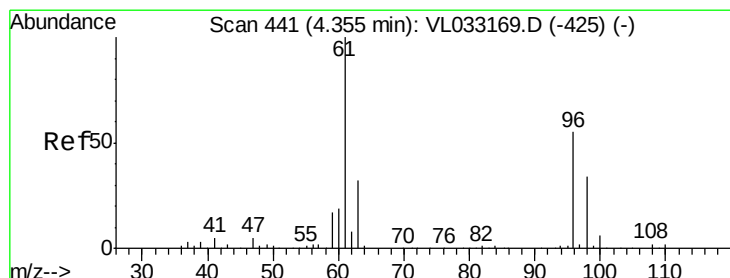
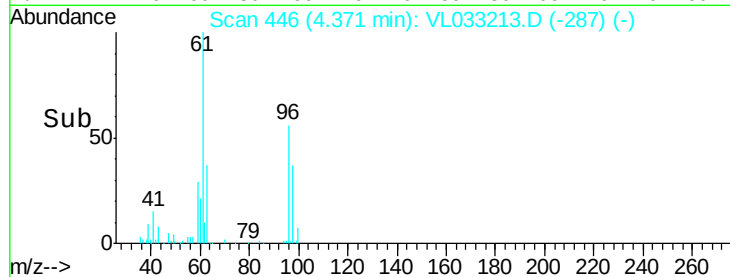
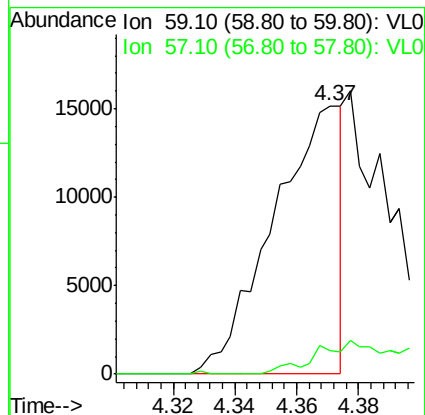
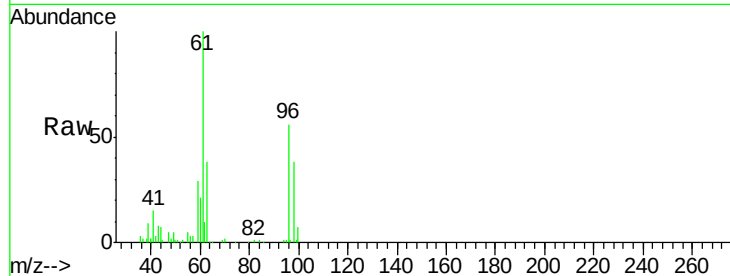




#17

tert-Butyl alcohol
Concen: 1.123 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

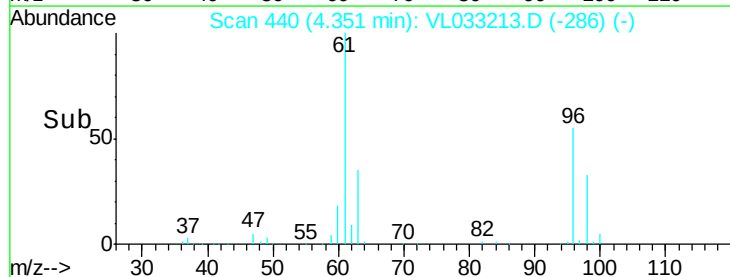
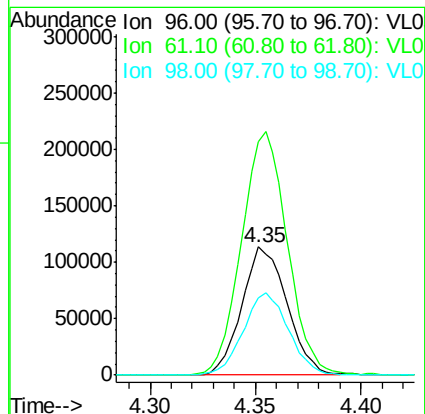
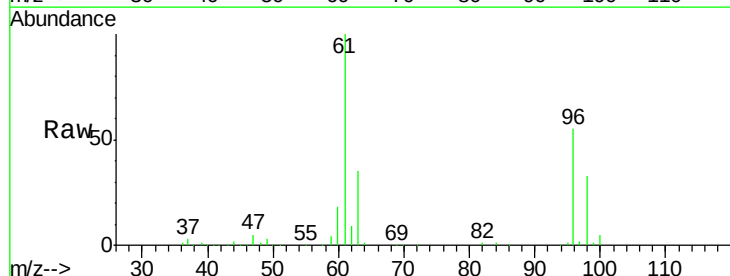
Tgt Ion: 59 Resp: 23267
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#

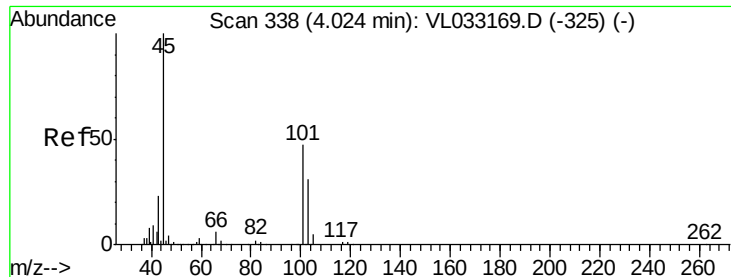


#18

1,1-Dichloroethene
Concen: 3.662 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 96 Resp: 169578
Ion Ratio Lower Upper
96 100
61 181.5 145.0 217.6
98 59.7 50.0 75.0





#19

Isopropyl Alcohol

Concen: 2.830 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033213.D

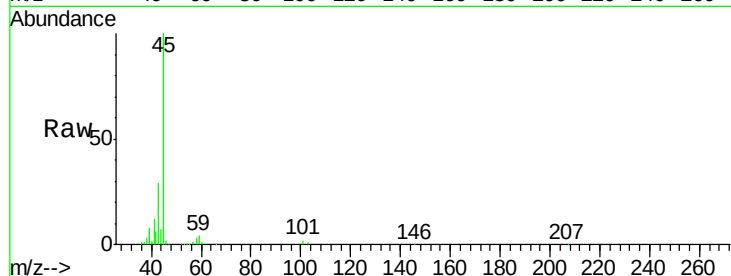
Acq: 15 Feb 2019 00:53

Tgt Ion: 45 Resp: 208530

Ion Ratio Lower Upper

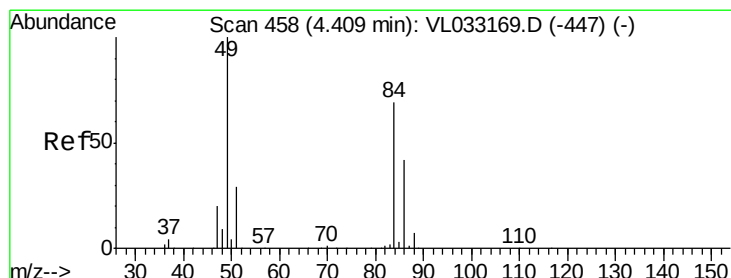
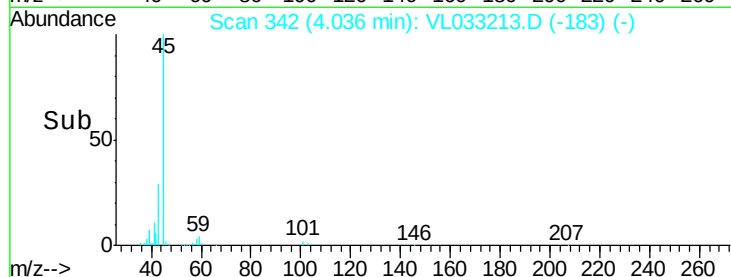
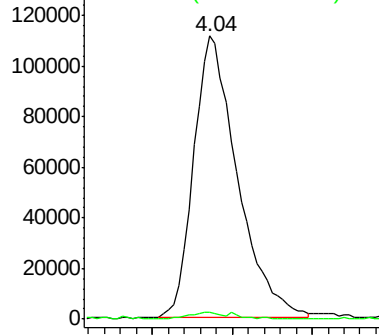
45 100

58 2.6 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: 3.014 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion: 84 Resp: 130279

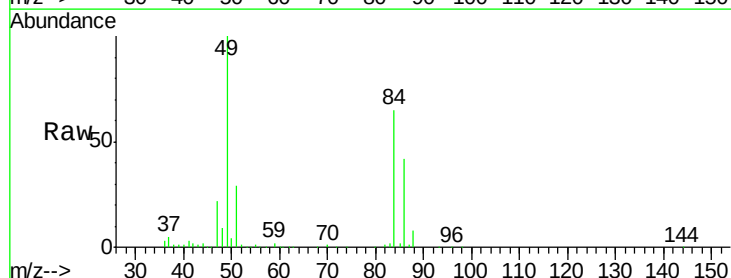
Ion Ratio Lower Upper

84 100

49 151.8 115.8 173.8

51 44.4 33.0 49.6

86 64.7 48.2 72.2

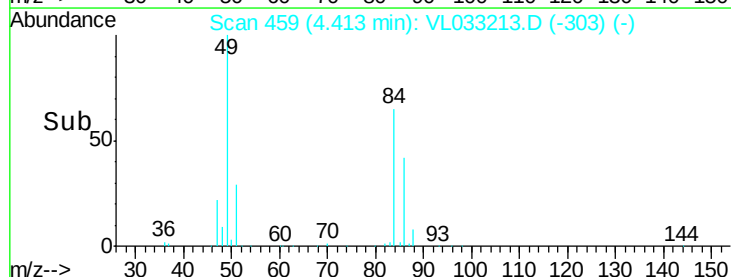
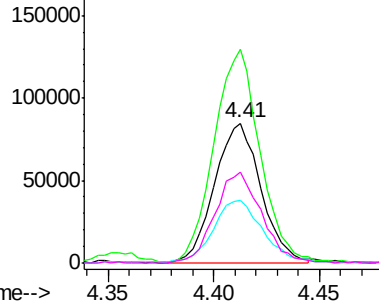


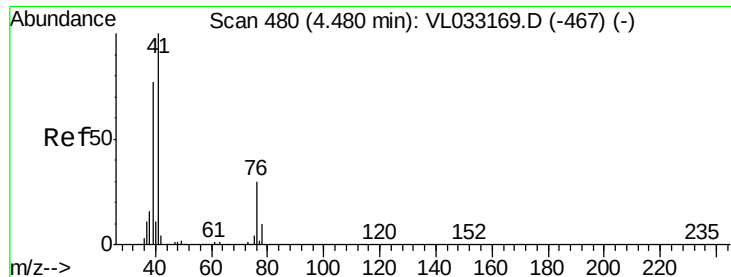
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allyl Chloride

Concen: 0.066 ppbv

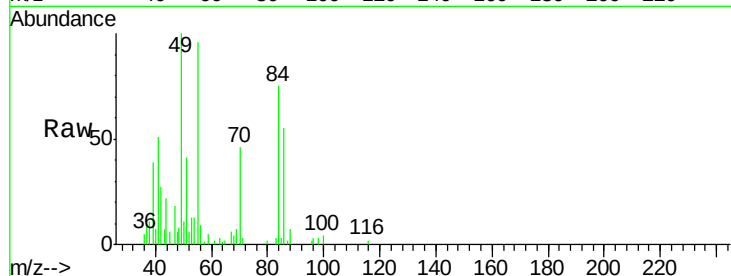
RT: 4.44 min Scan# 466

Delta R.T. -0.05 min

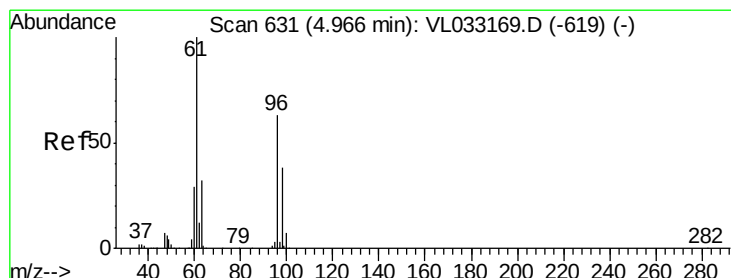
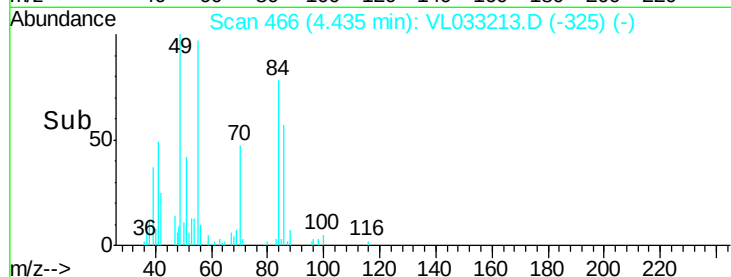
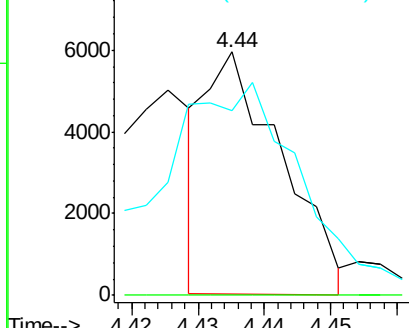
Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	41	Resp:	4712
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.5	36.7#
39	159.2	64.1	96.1#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.356 ppbv

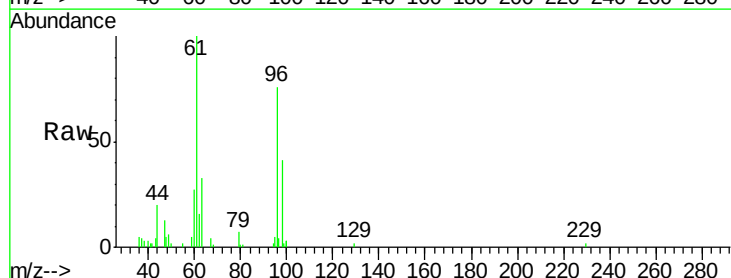
RT: 4.97 min Scan# 632

Delta R.T. 0.00 min

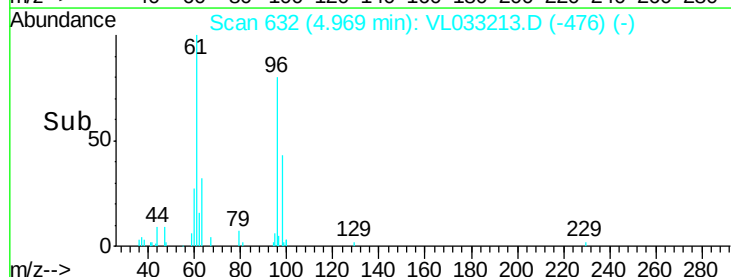
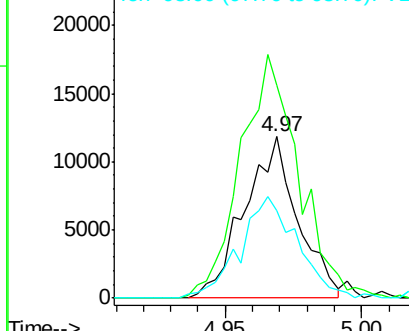
Lab File: VL033213.D

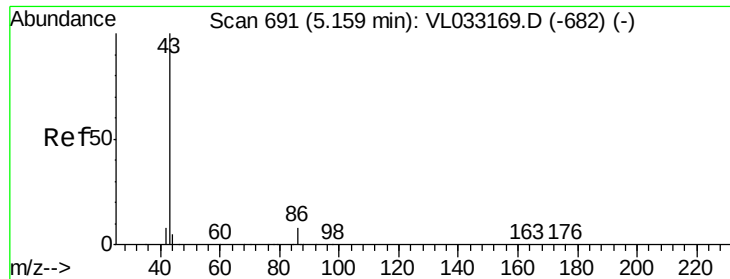
Acq: 15 Feb 2019 00:53

Tgt Ion:	96	Resp:	15999
Ion	Ratio	Lower	Upper
96	100		
61	122.3	126.4	189.6#
98	48.7	48.4	72.6



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





#23

Vinyl Acetate

Concen: 0.124 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion: 43 Resp: 23321

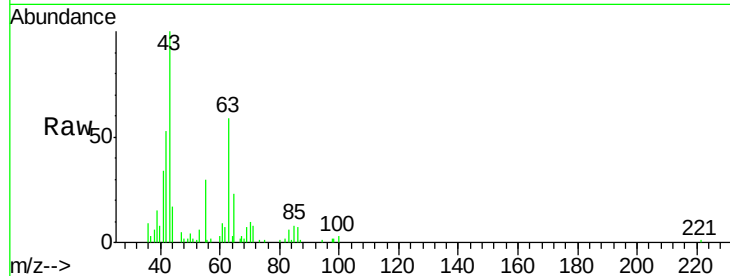
Ion Ratio Lower Upper

43 100

86 0.3 5.8 8.8#

42 77.0 7.4 11.0#

44 8.8 3.7 5.5#

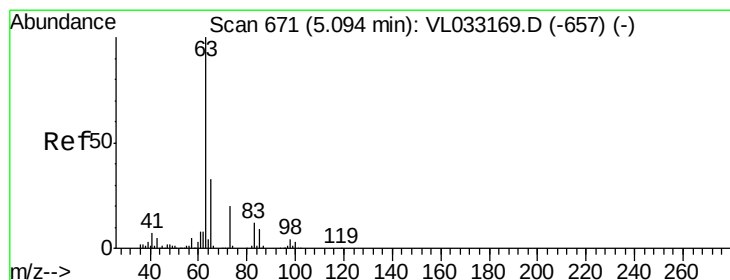
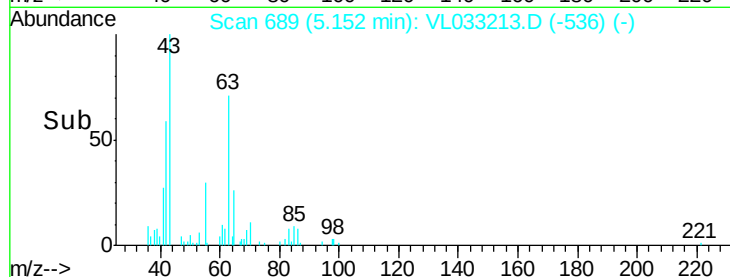
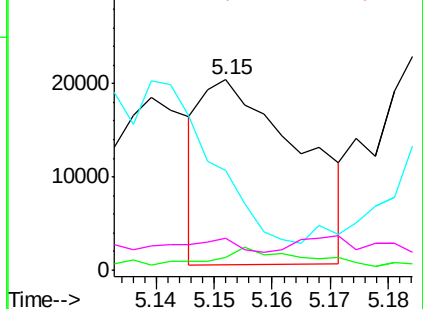


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 56.203 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

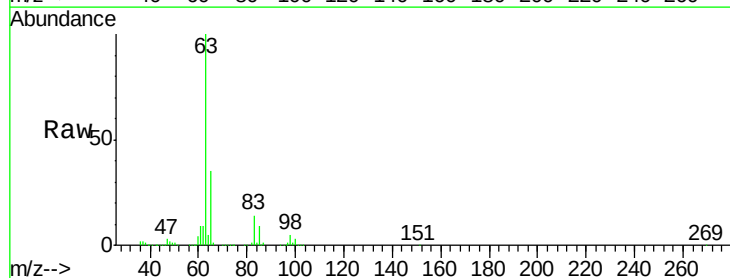
Tgt Ion: 63 Resp: 7486220

Ion Ratio Lower Upper

63 100

98 4.9 2.1 6.5

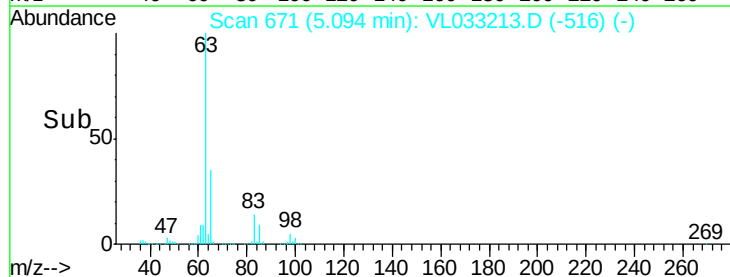
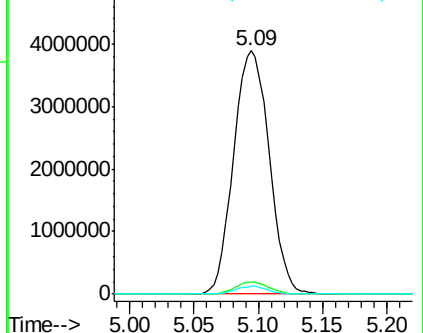
100 3.3 1.4 4.2

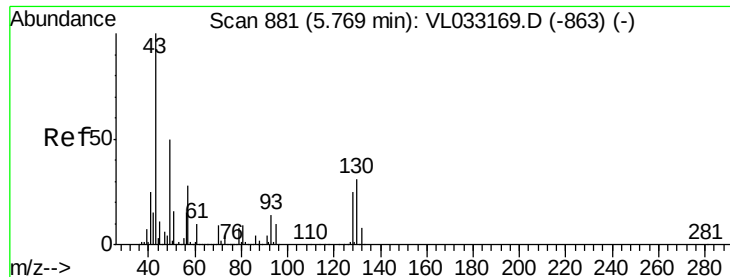


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

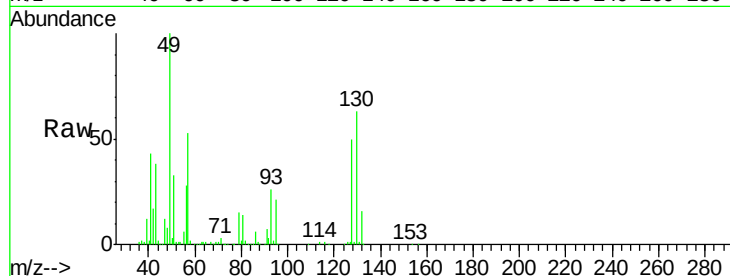
Ion 100.00 (99.70 to 100.70): VL0



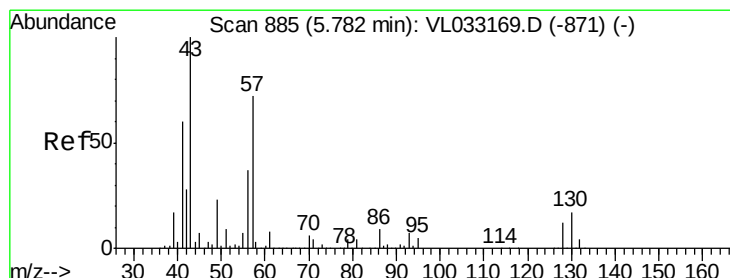
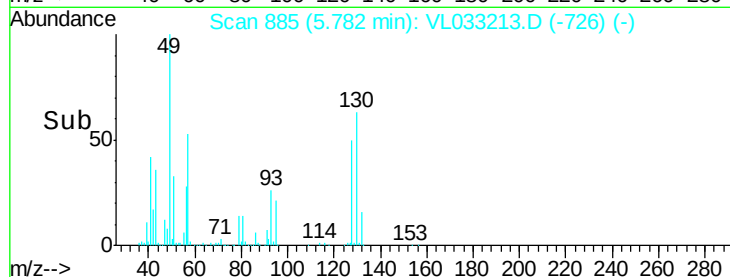
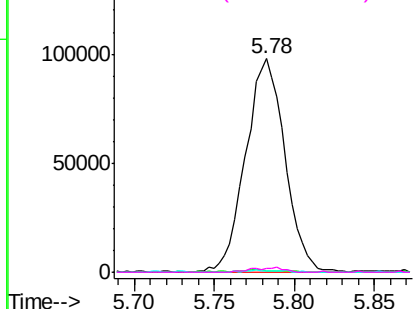


#25
Ethyl Acetate
Concen: 0.671 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion:	43	Resp:	163898
Ion	Ratio	Lower	Upper
43	100		
45	1.6	7.9	11.9#
61	0.9	7.5	11.3#
70	1.9	5.8	8.8#

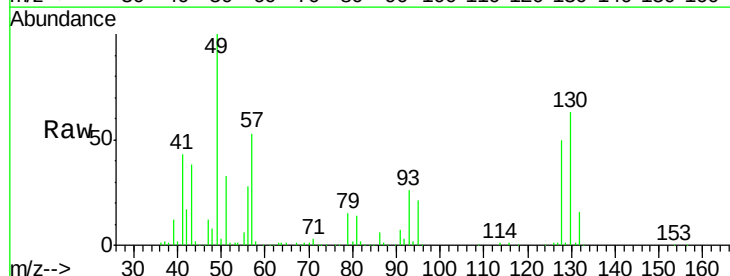


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

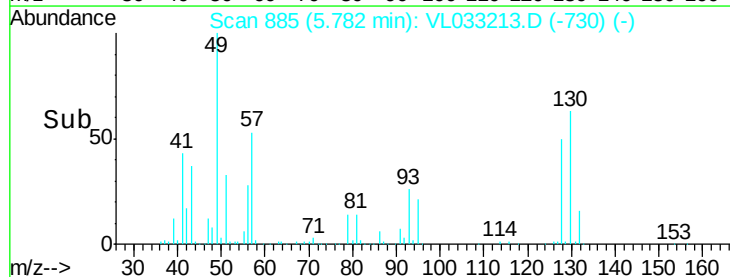
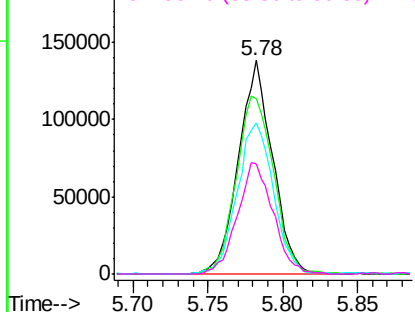


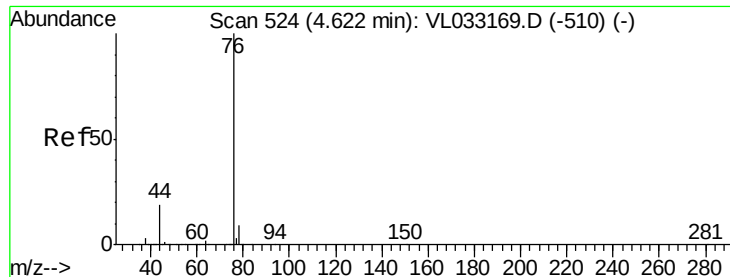
#26
Hexane
Concen: 1.912 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion:	57	Resp:	219242
Ion	Ratio	Lower	Upper
57	100		
41	92.0	69.4	104.2
43	75.6	176.7	265.1#
56	54.4	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





#27

Carbon Disulfide

Concen: 0.041 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

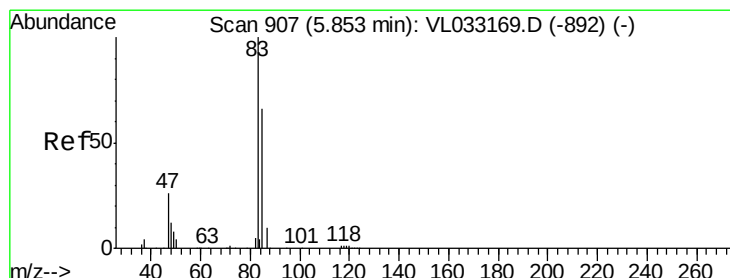
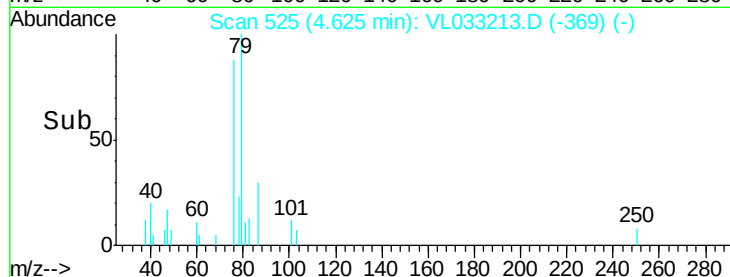
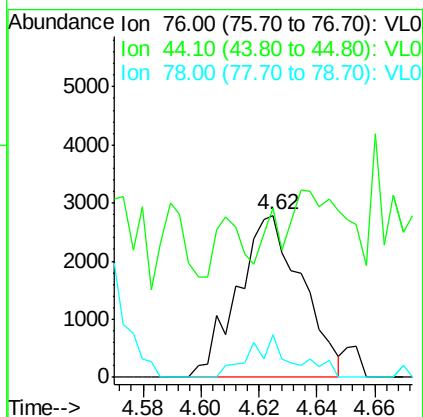
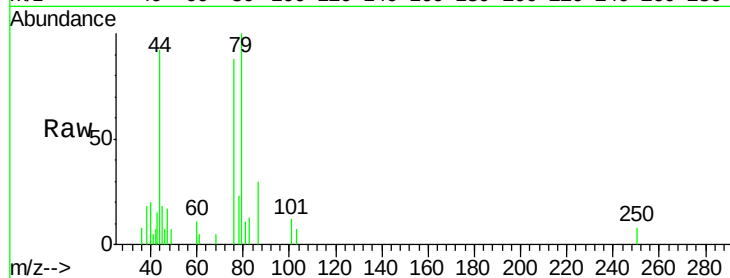
Tgt Ion: 76 Resp: 4299

Ion Ratio Lower Upper

76 100

44 68.8 15.0 22.4#

78 17.5 7.4 11.0#



#29

Chloroform

Concen: 0.168 ppbv

RT: 5.86 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL033213.D

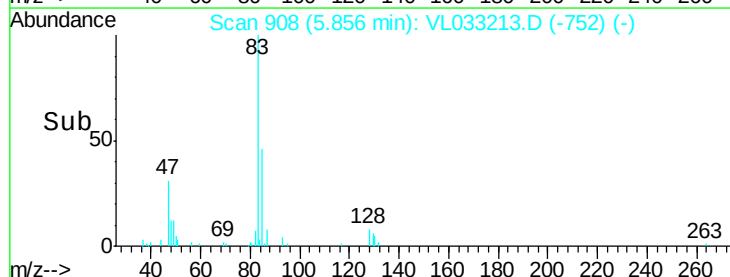
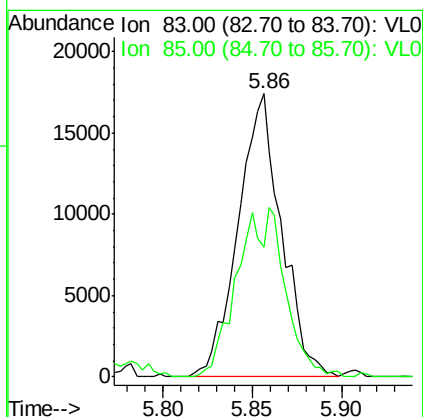
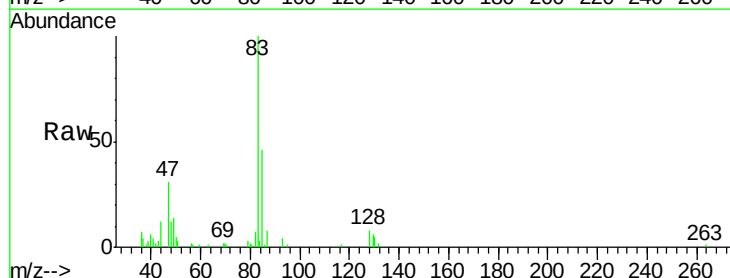
Acq: 15 Feb 2019 00:53

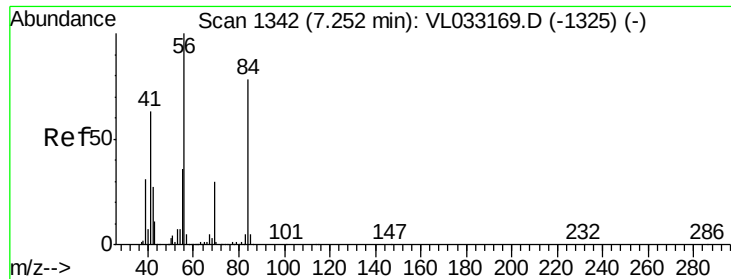
Tgt Ion: 83 Resp: 29610

Ion Ratio Lower Upper

83 100

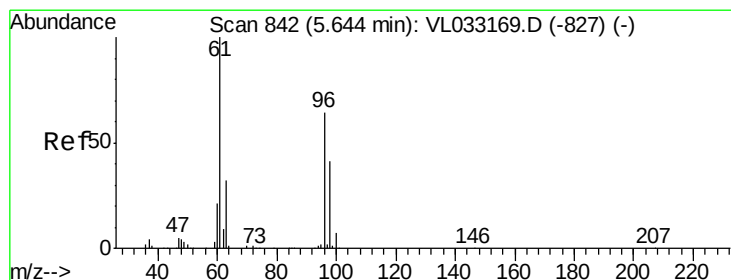
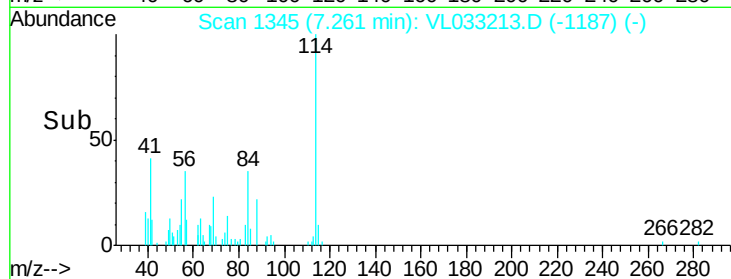
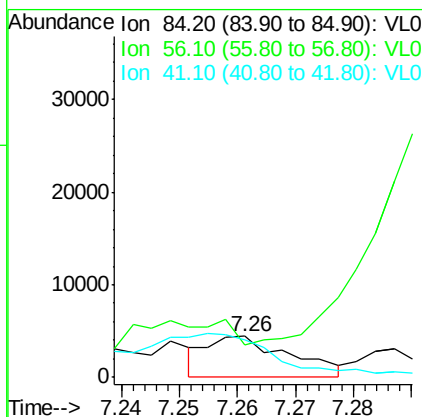
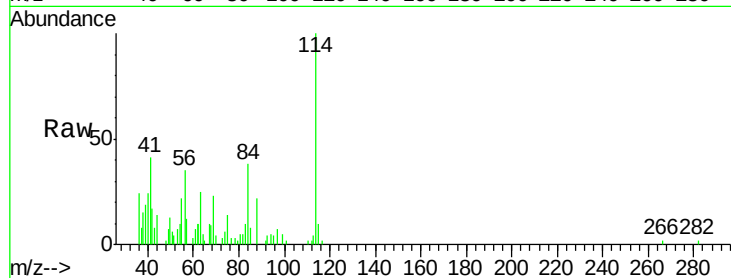
85 45.7 52.6 78.8#





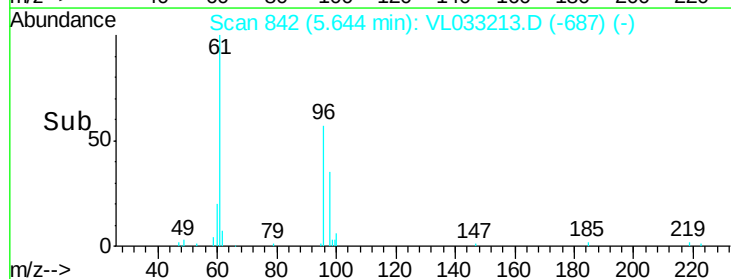
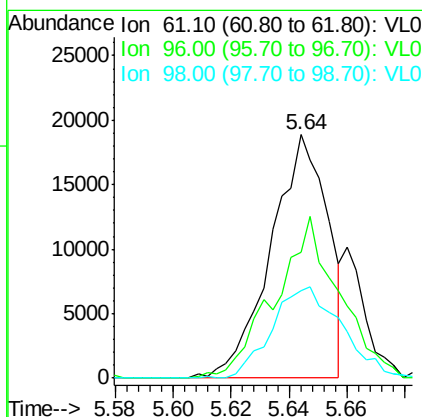
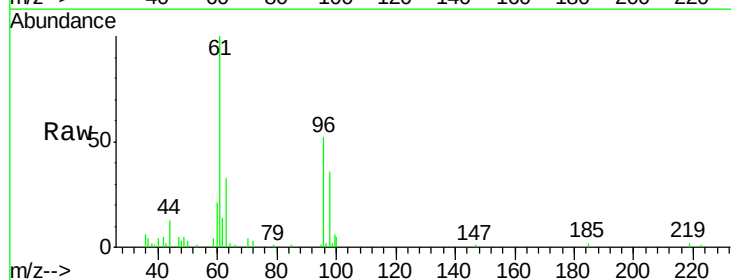
#30
Cyclohexane
Concen: 0.042 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

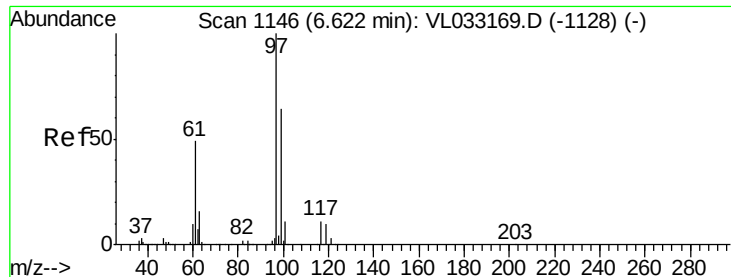
Tgt Ion: 84 Resp: 4432
Ion Ratio Lower Upper
84 100
56 0.0 109.5 164.3#
41 230.6 66.6 100.0#



#31
cis-1,2-Dichloroethene
Concen: 0.224 ppbv
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 61 Resp: 25693
Ion Ratio Lower Upper
61 100
96 53.1 51.2 76.8
98 38.4 32.8 49.2





#32

1,1,1-Trichloroethane

Concen: 101.373 ppbv

RT: 6.63 min Scan# 1148

Delta R.T. 0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

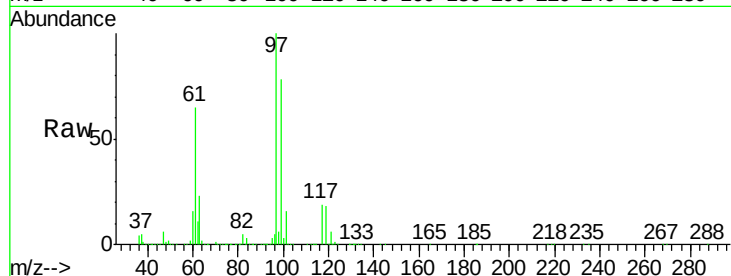
Tgt Ion: 97 Resp:19618276

Ion Ratio Lower Upper

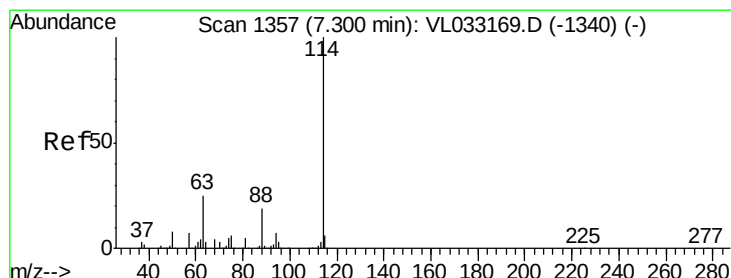
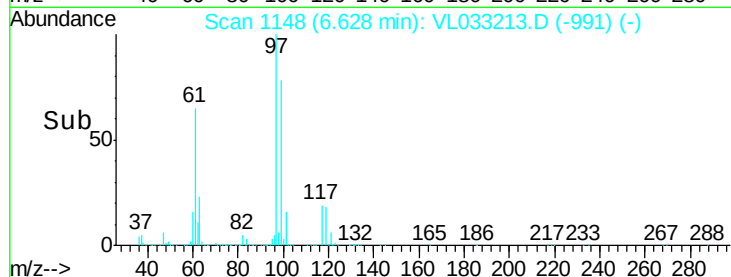
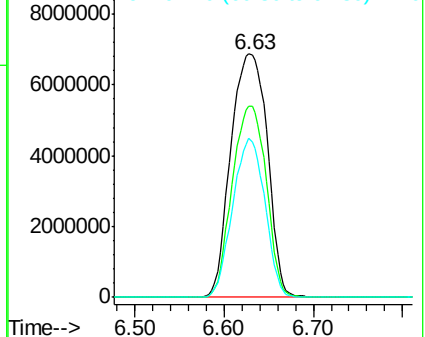
97 100

99 73.2 51.4 77.2

61 57.6 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: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

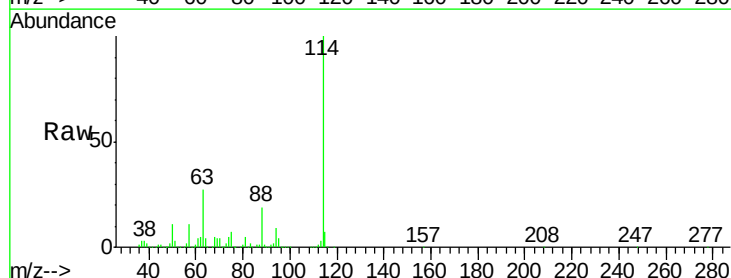
Tgt Ion:114 Resp: 2103016

Ion Ratio Lower Upper

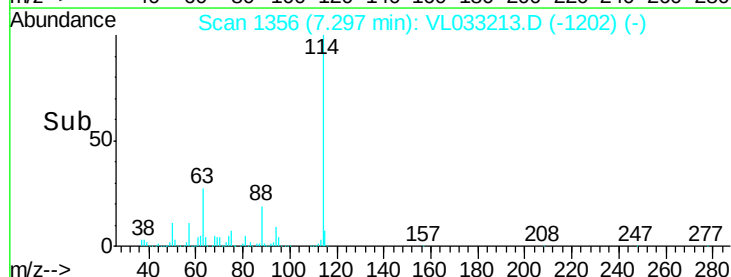
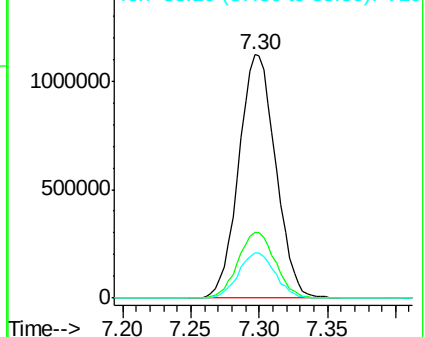
114 100

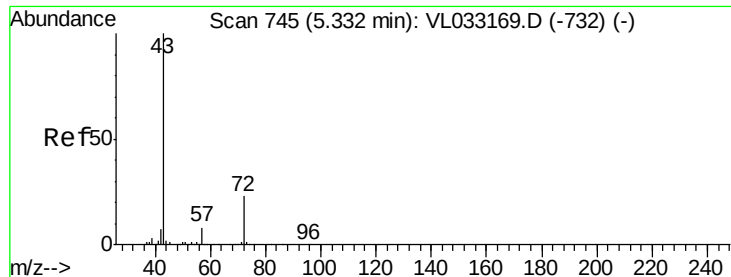
63 27.4 20.8 31.2

88 18.3 14.6 22.0



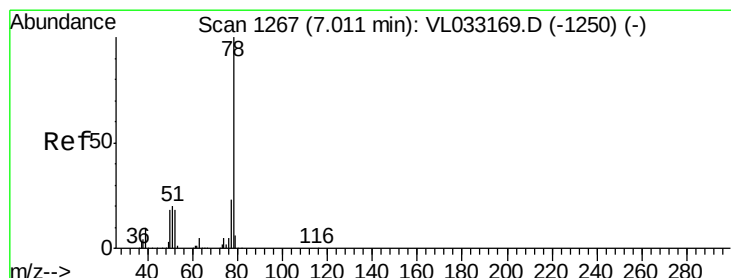
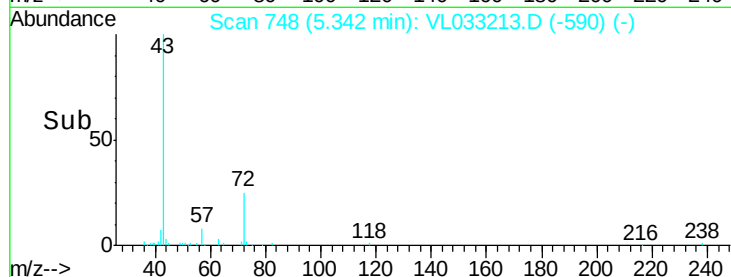
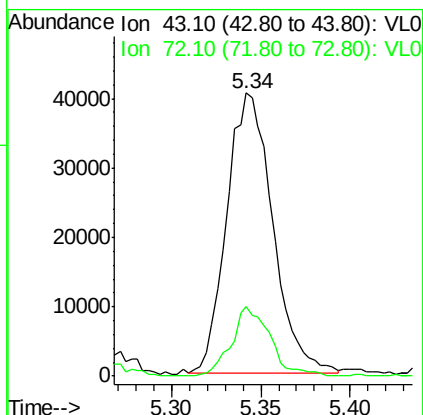
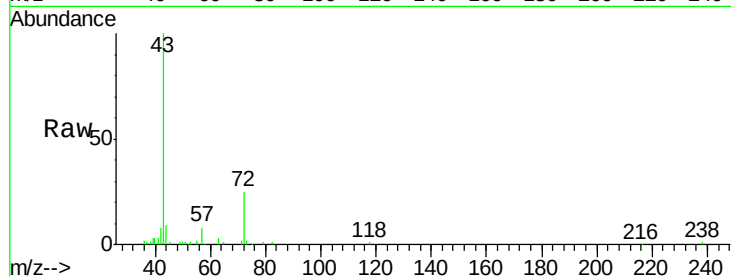
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





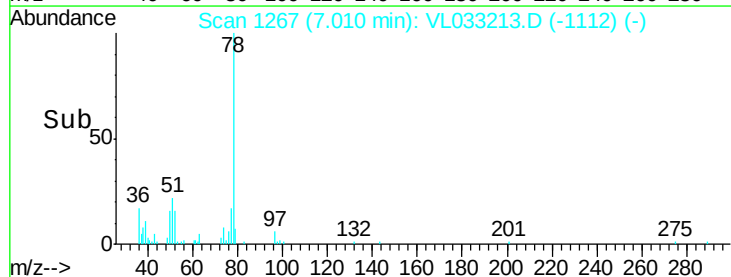
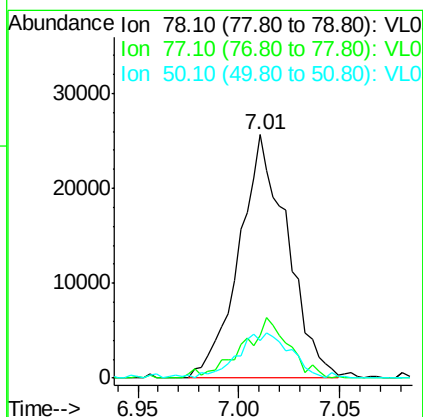
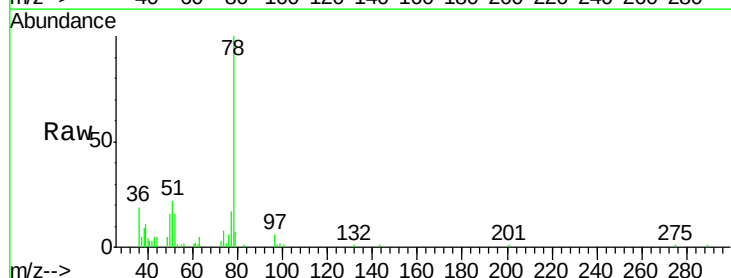
#34
 2-Butanone
 Concen: 0.542 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033213.D
 Acq: 15 Feb 2019 00:53

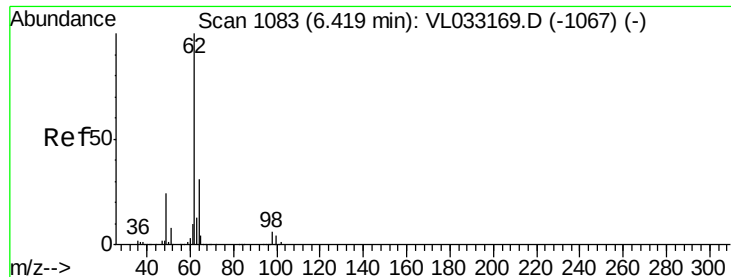
Tgt Ion: 43 Resp: 72316
 Ion Ratio Lower Upper
 43 100
 72 20.9 17.8 26.6



#36
 Benzene
 Concen: 0.202 ppbv
 RT: 7.01 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VL033213.D
 Acq: 15 Feb 2019 00:53

Tgt Ion: 78 Resp: 43080
 Ion Ratio Lower Upper
 78 100
 77 16.6 18.0 27.0#
 50 14.9 14.2 21.2





#37

1,2-Dichloroethane

Concen: 0.183 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033213.D

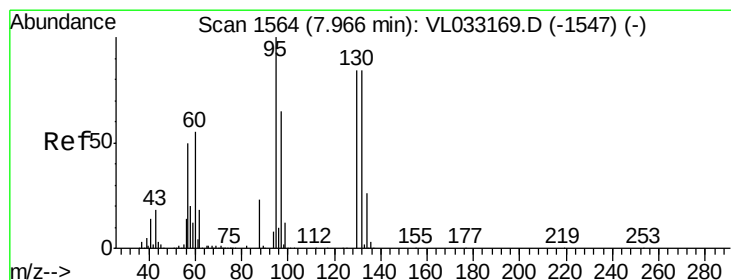
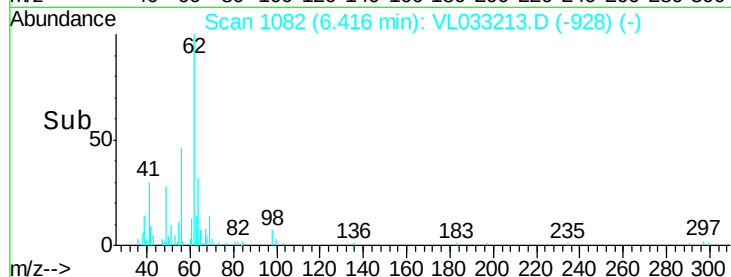
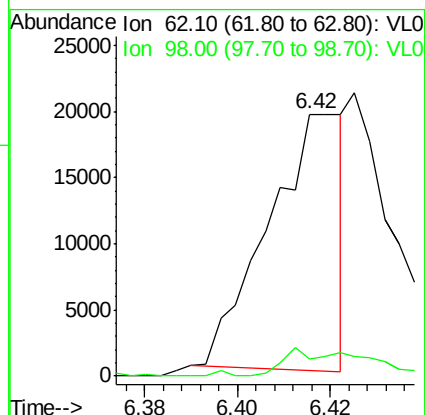
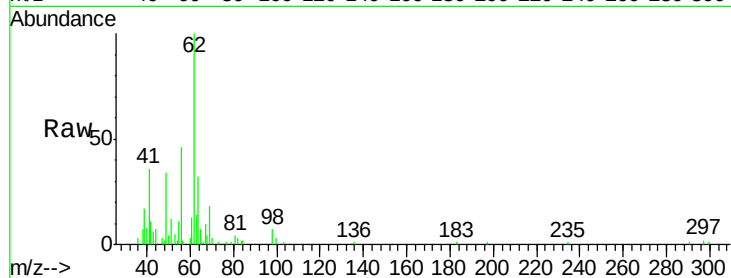
Acq: 15 Feb 2019 00:53

Tgt Ion: 62 Resp: 21670

Ion Ratio Lower Upper

62 100

98 0.0 4.7 7.1#



#38

Trichloroethene

Concen: 0.844 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion: 130 Resp: 77019

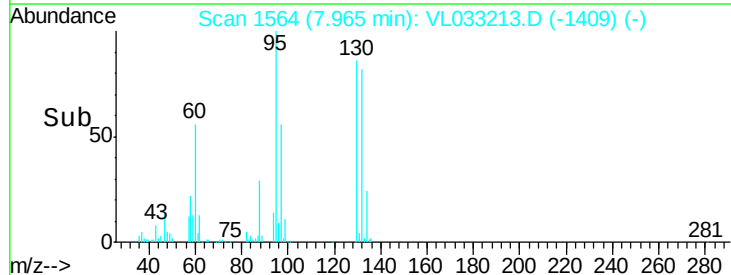
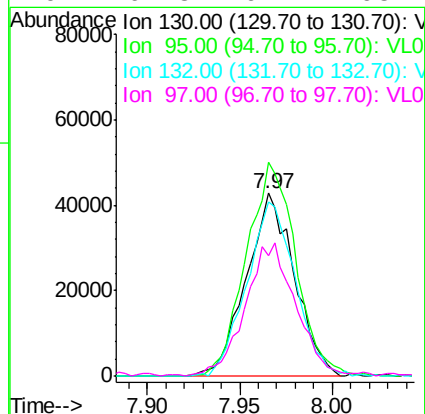
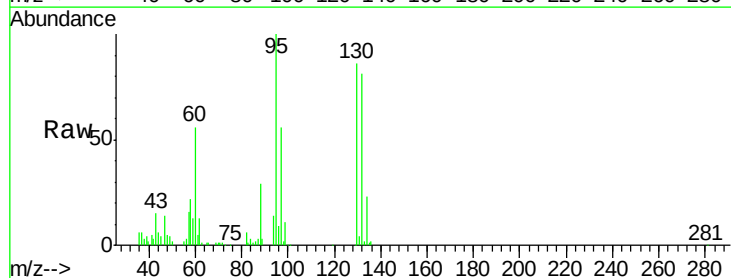
Ion Ratio Lower Upper

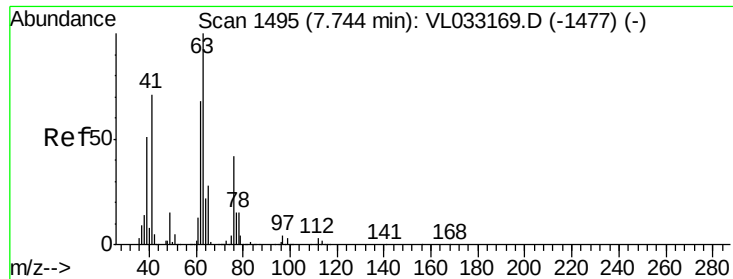
130 100

95 116.1 95.5 143.3

132 97.9 80.0 120.0

97 64.8 62.2 93.2





#39

1,2-Dichloropropane

Concen: 6.820 ppbv

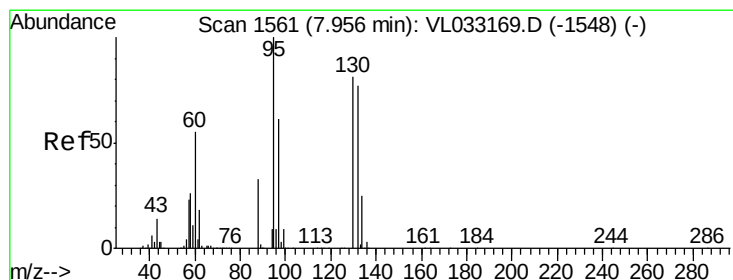
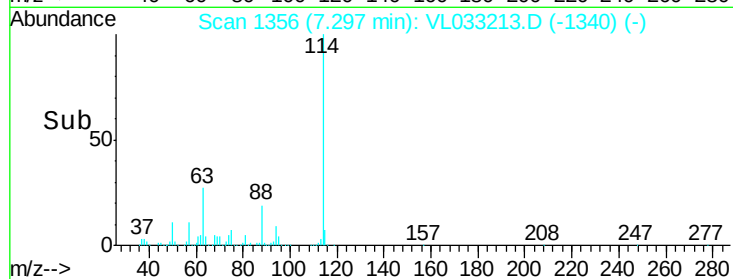
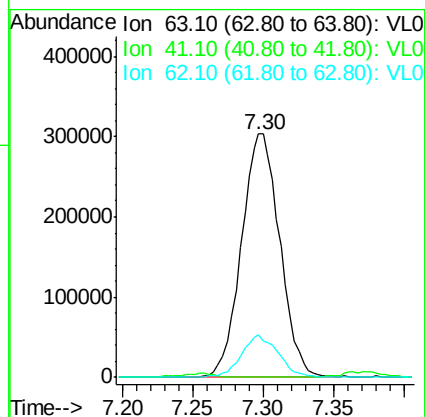
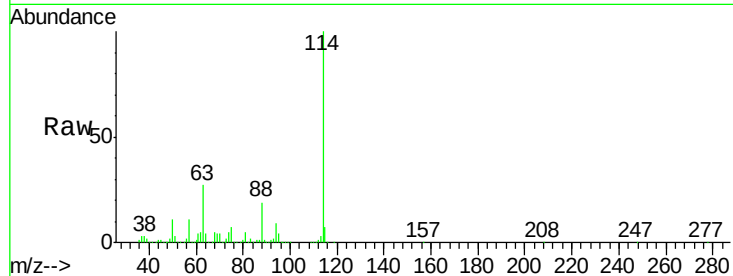
RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	63	Resp:	574095
Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	17.4	54.2	81.4#



#40

1,4-Dioxane

Concen: 0.973 ppbv

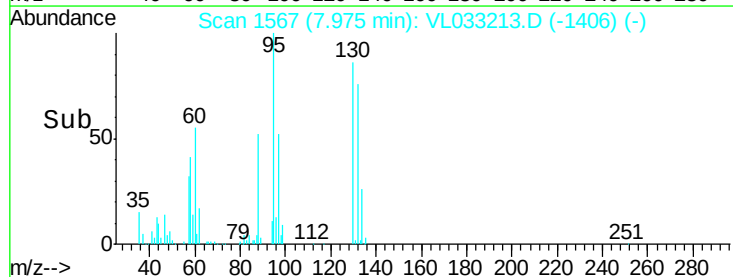
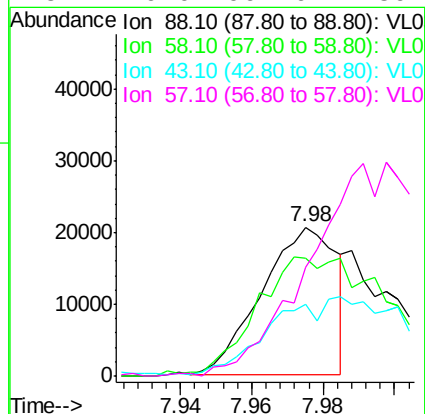
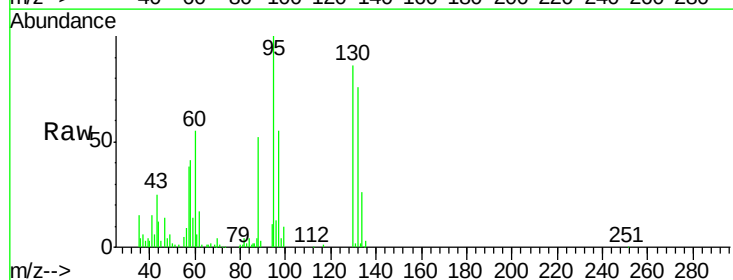
RT: 7.98 min Scan# 1567

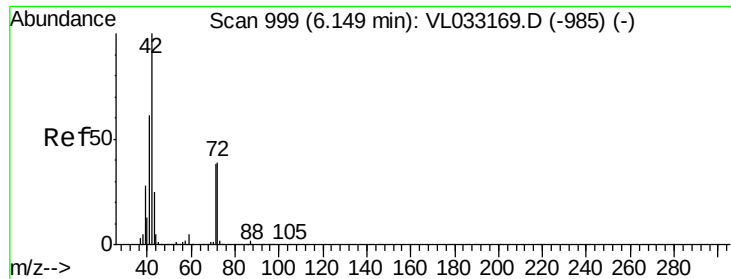
Delta R.T. 0.02 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	88	Resp:	29766
Ion	Ratio	Lower	Upper
88	100		
58	156.9	106.6	160.0
43	17.2	220.2	330.2#
57	0.0	992.6	1489.0#





#41

Tetrahydrofuran

Concen: 0.149 ppbv

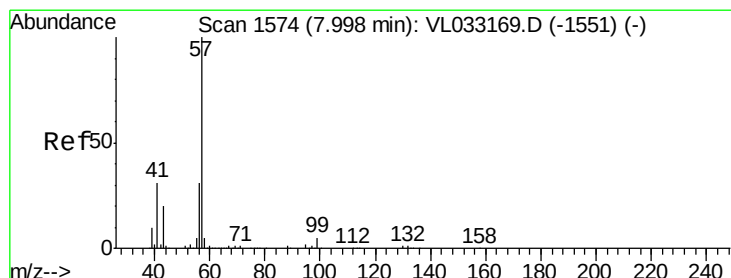
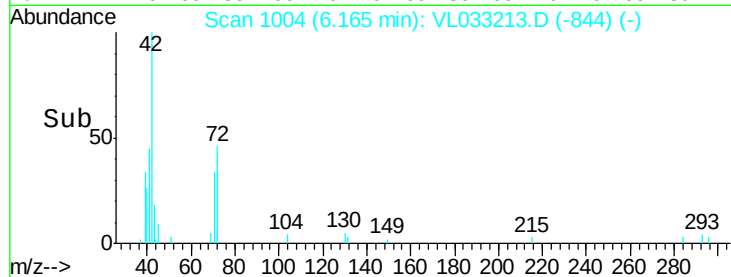
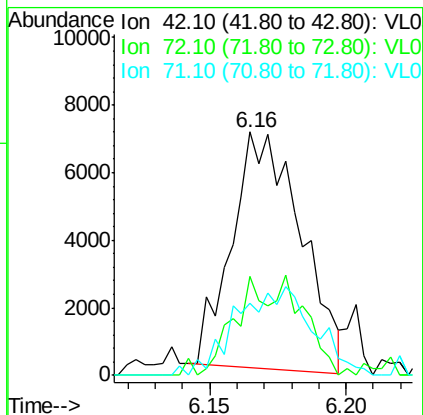
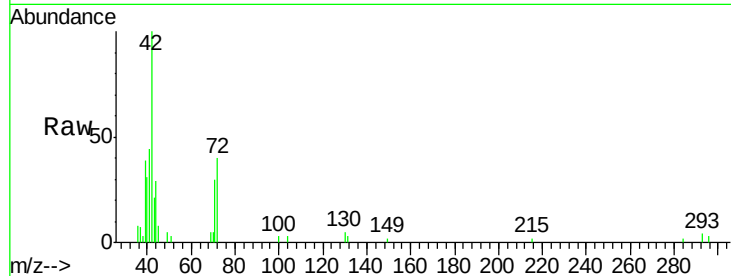
RT: 6.16 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	42	Resp:	12311
Ion	Ratio	Lower	Upper
42	100		
72	40.5	31.6	47.4
71	43.1	30.3	45.5



#44

2,2,4-Trimethylpentane

Concen: 0.096 ppbv

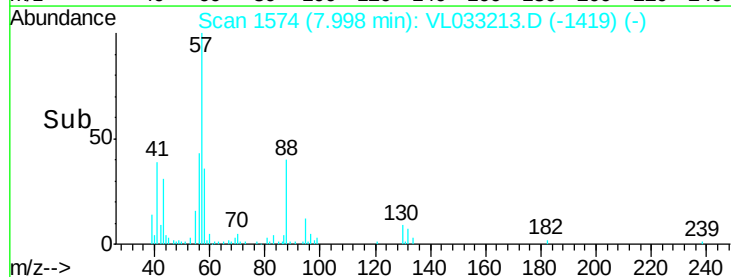
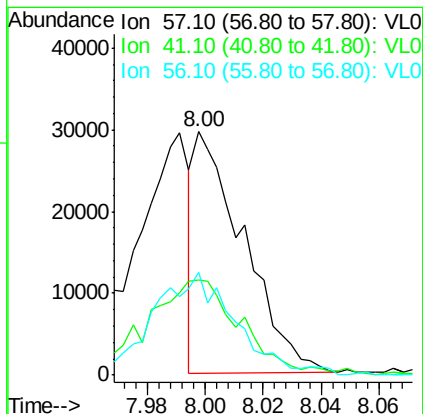
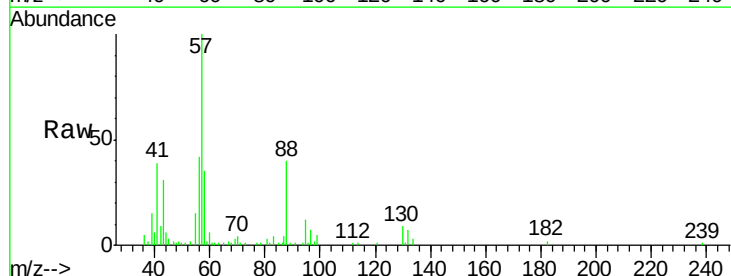
RT: 8.00 min Scan# 1574

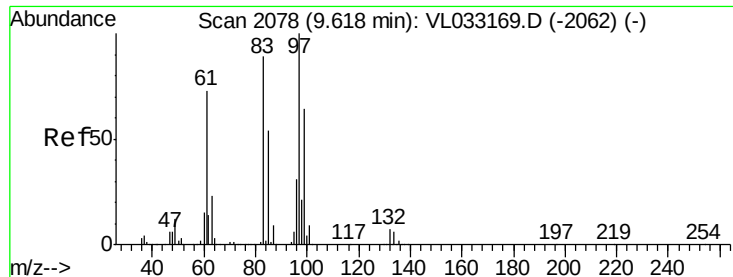
Delta R.T. -0.00 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

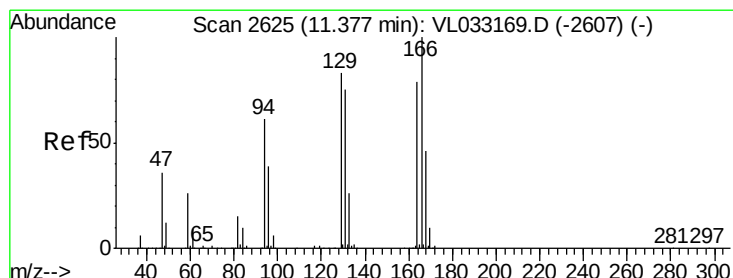
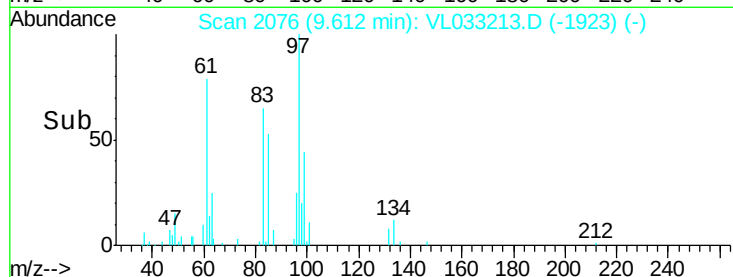
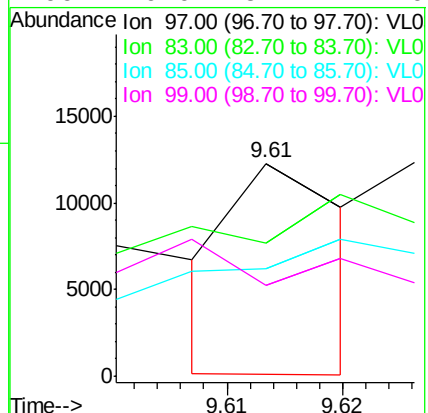
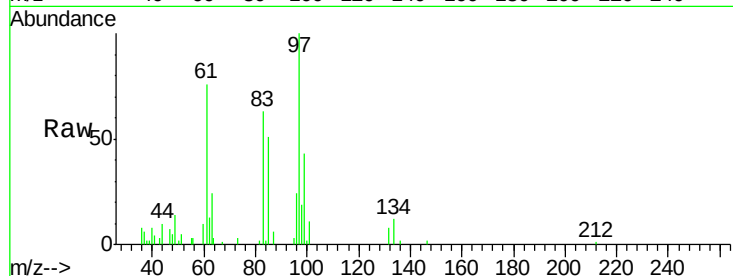
Tgt Ion:	57	Resp:	34501
Ion	Ratio	Lower	Upper
57	100		
41	78.0	25.1	37.7#
56	73.6	24.5	36.7#





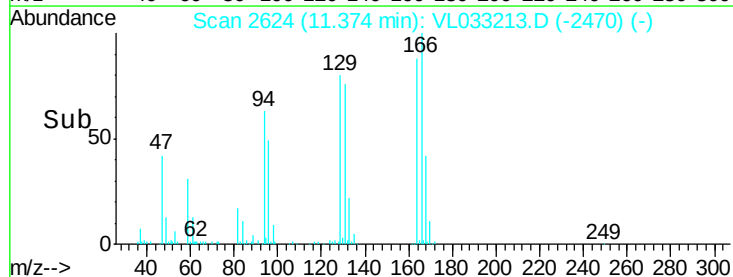
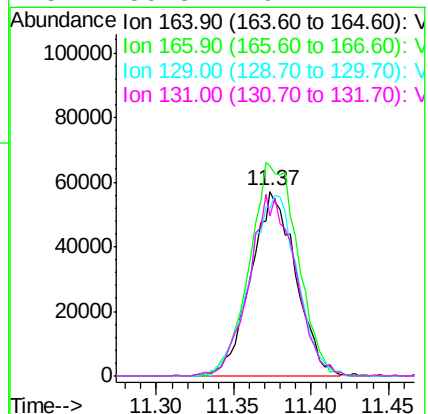
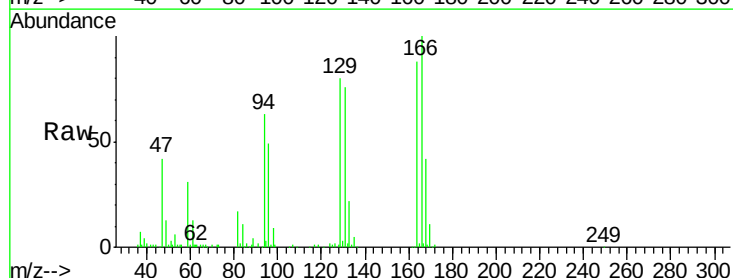
#47
 1,1,2-Trichloroethane
 Concen: 0.048 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033213.D
 Acq: 15 Feb 2019 00:53

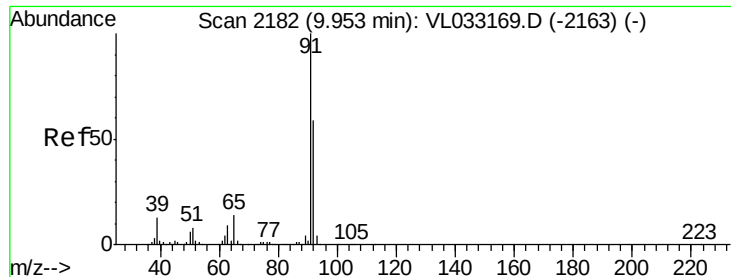
Tgt Ion:	97	Resp:	4209
Ion	Ratio	Lower	Upper
97	100		
83	0.0	71.4	107.2#
85	2.4	43.5	65.3#
99	0.0	51.4	77.0#



#52
 Tetrachloroethene
 Concen: 1.409 ppbv
 RT: 11.37 min Scan# 2624
 Delta R.T. -0.00 min
 Lab File: VL033213.D
 Acq: 15 Feb 2019 00:53

Tgt Ion:	164	Resp:	115414
Ion	Ratio	Lower	Upper
164	100		
166	113.7	100.9	151.3
129	90.8	83.9	125.9
131	86.8	76.2	114.2





#53

Toluene

Concen: 0.561 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033213.D

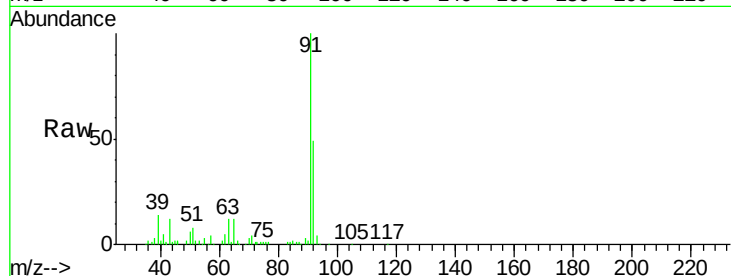
Acq: 15 Feb 2019 00:53

Tgt Ion: 91 Resp: 141466

Ion Ratio Lower Upper

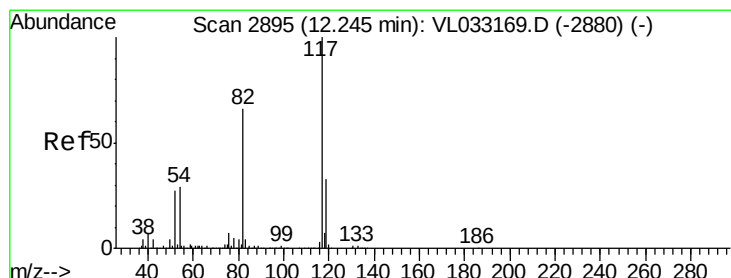
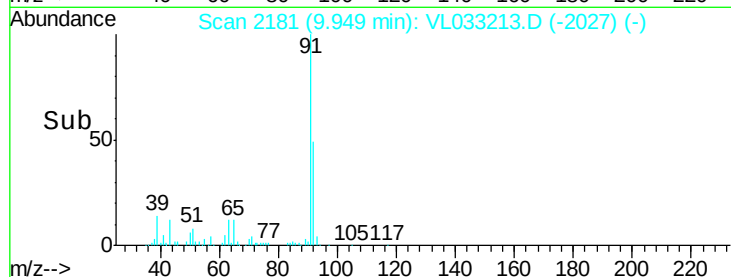
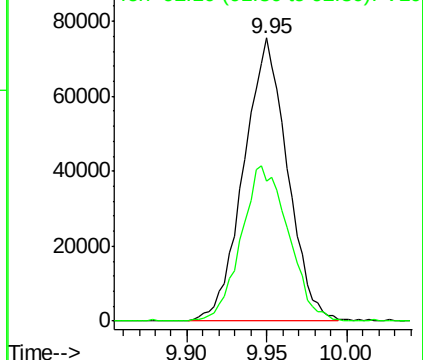
91 100

92 59.2 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

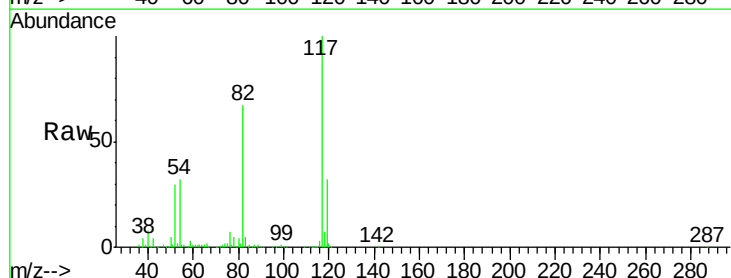
Tgt Ion: 117 Resp: 2074358

Ion Ratio Lower Upper

117 100

82 67.5 49.5 74.3

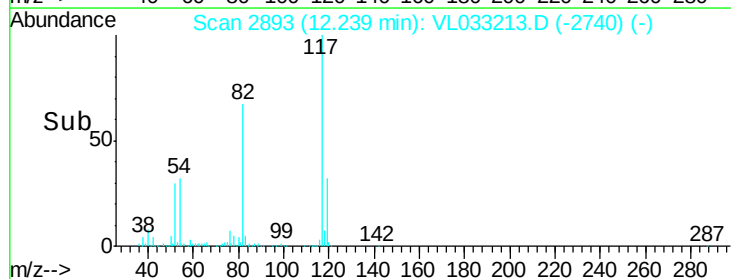
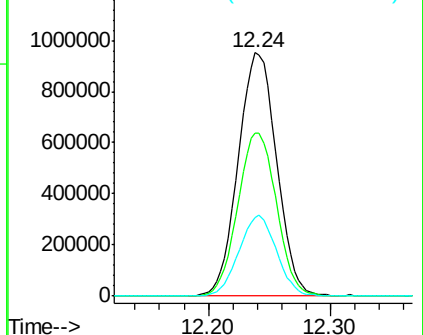
119 32.4 24.4 36.6

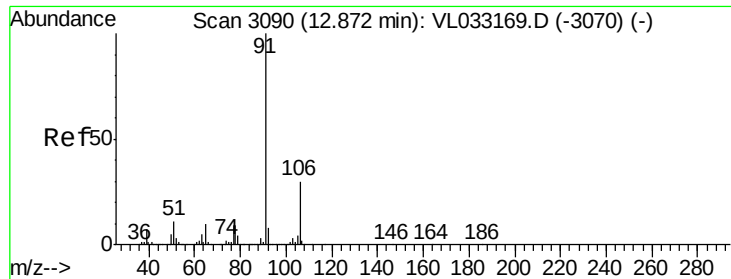


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.414 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033213.D

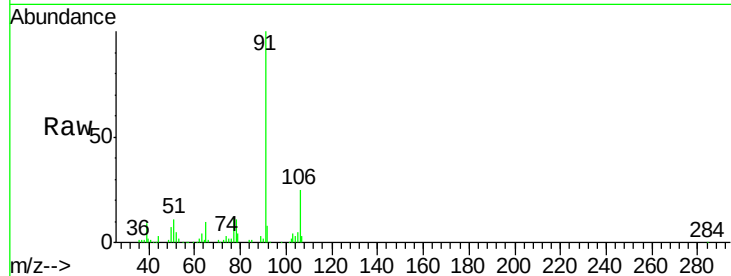
Acq: 15 Feb 2019 00:53

Tgt Ion: 91 Resp: 138981

Ion Ratio Lower Upper

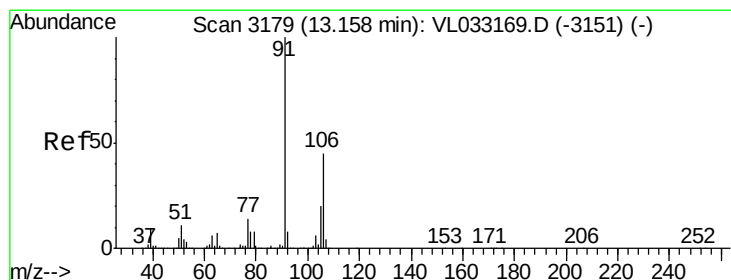
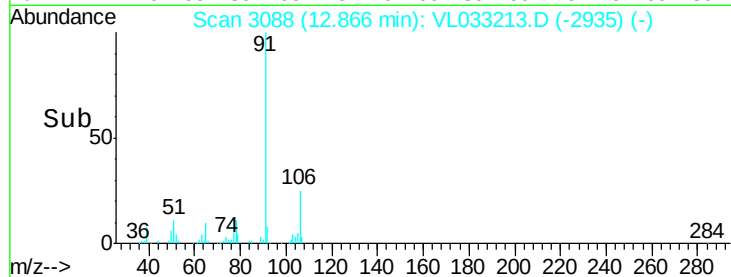
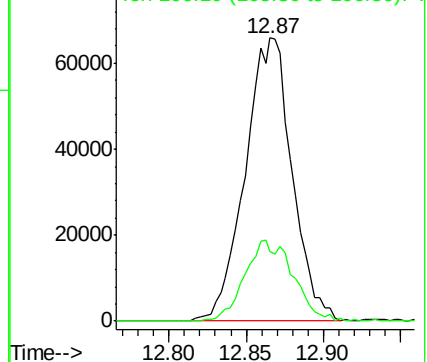
91 100

106 24.7 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 2.294 ppbv

RT: 13.12 min Scan# 3167

Delta R.T. -0.04 min

Lab File: VL033213.D

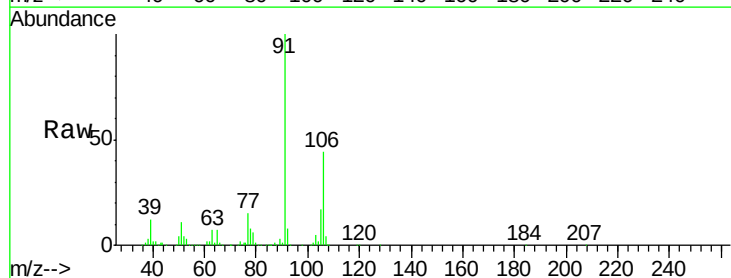
Acq: 15 Feb 2019 00:53

Tgt Ion: 91 Resp: 642593

Ion Ratio Lower Upper

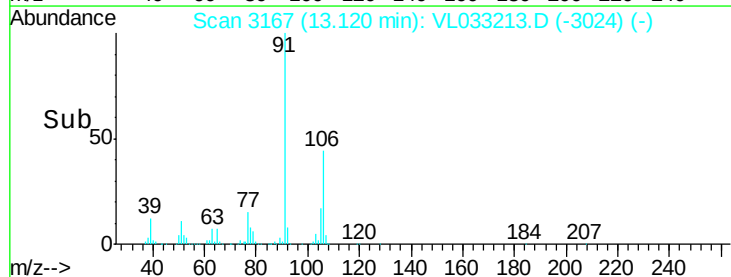
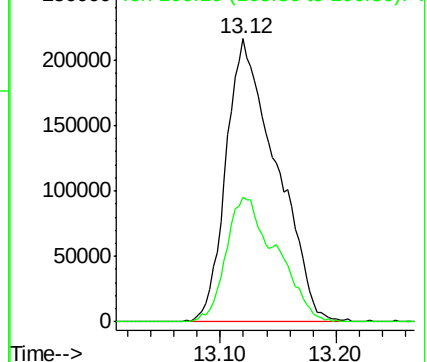
91 100

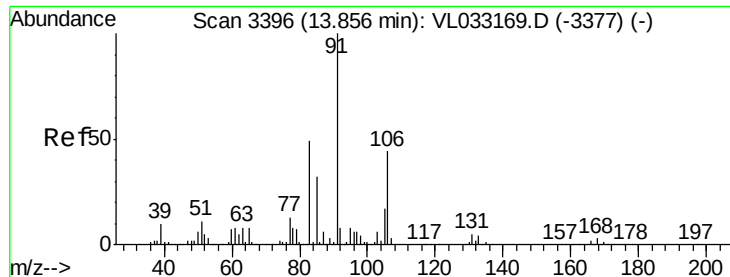
106 44.6 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

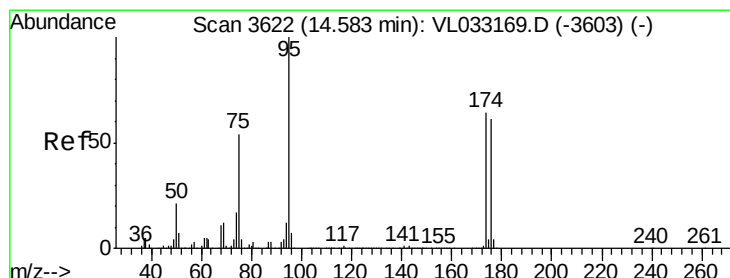
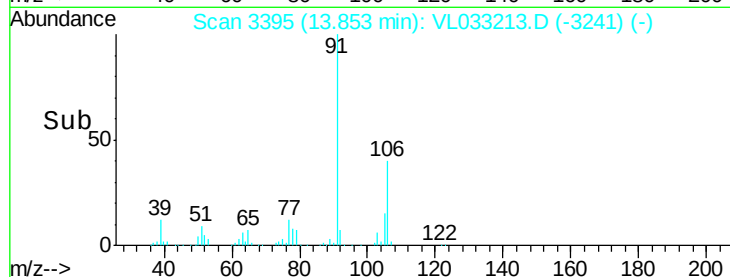
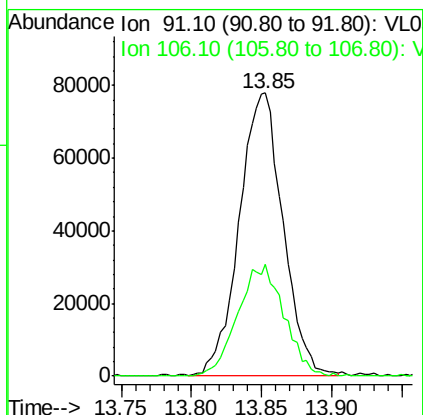
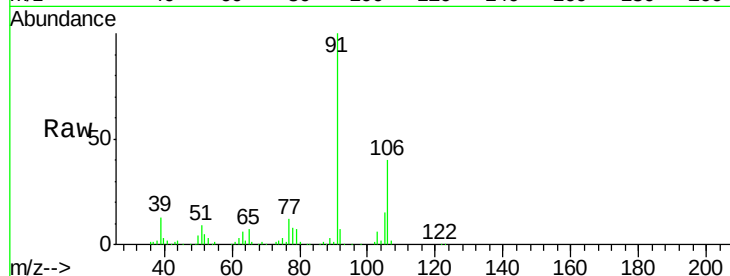
Ion 106.10 (105.80 to 106.80): V





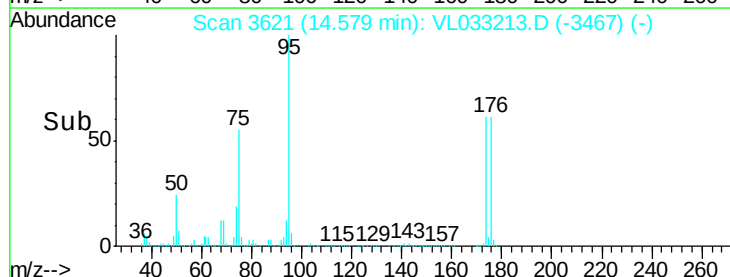
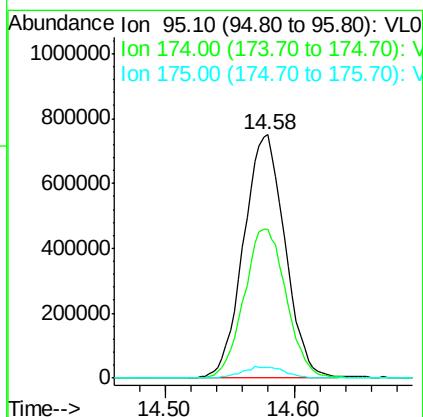
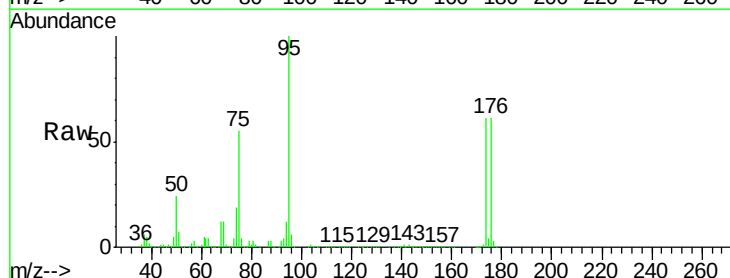
#60
o-Xylene
Concen: 0.615 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

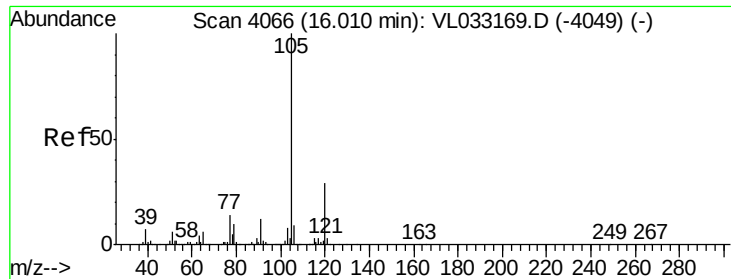
Tgt Ion: 91 Resp: 167549
Ion Ratio Lower Upper
91 100
106 42.0 21.8 65.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.499 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 95 Resp: 1677308
Ion Ratio Lower Upper
95 100
174 62.8 51.2 76.8
175 4.8 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.066 ppbv

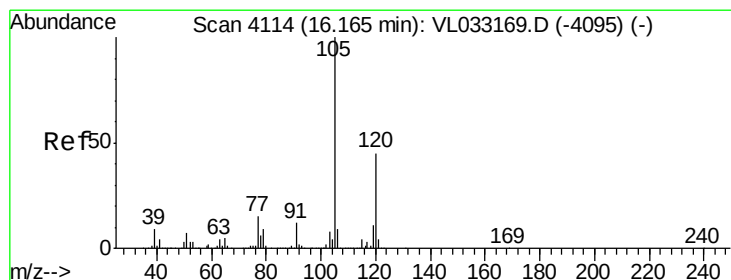
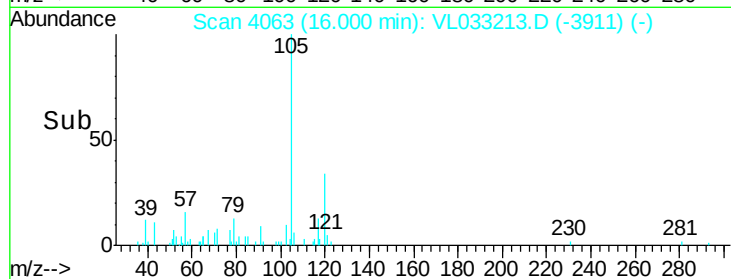
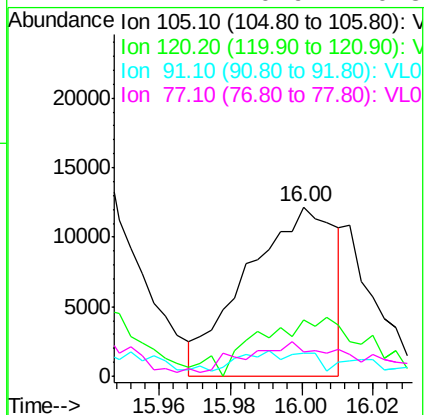
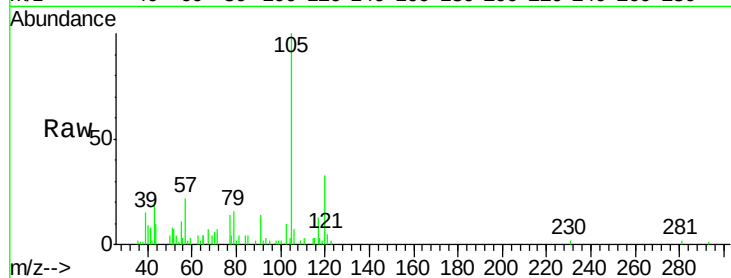
RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	105	Resp:	20864
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.1	34.7#
91	21.6	9.8	14.6#
77	27.2	10.9	16.3#



#73

1,3,5-Trimethylbenzene

Concen: 0.045 ppbv

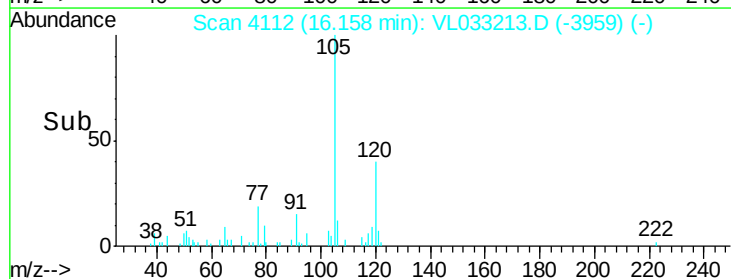
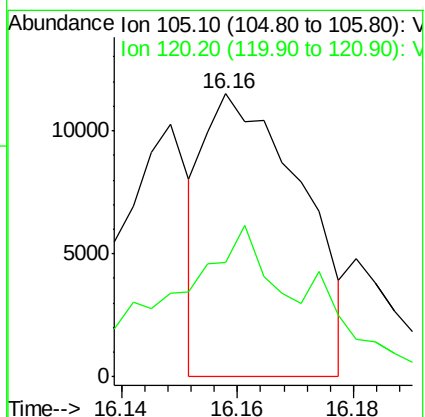
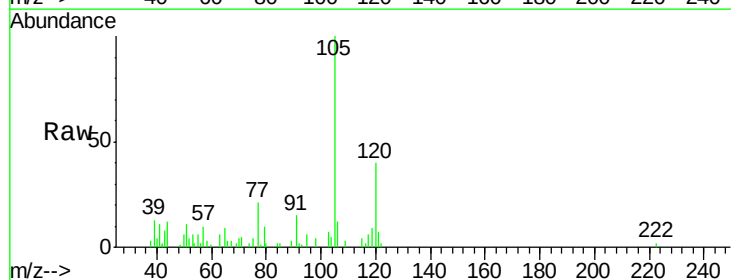
RT: 16.16 min Scan# 4112

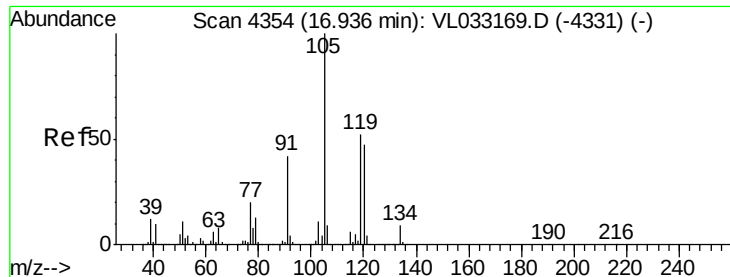
Delta R.T. -0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	105	Resp:	13407
Ion Ratio	Lower	Upper	
105	100		
120	38.9	36.2	54.4





#74

1,2,4-Trimethylbenzene

Concen: 0.330 ppbv

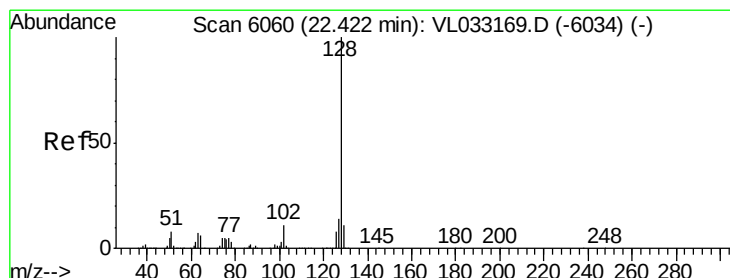
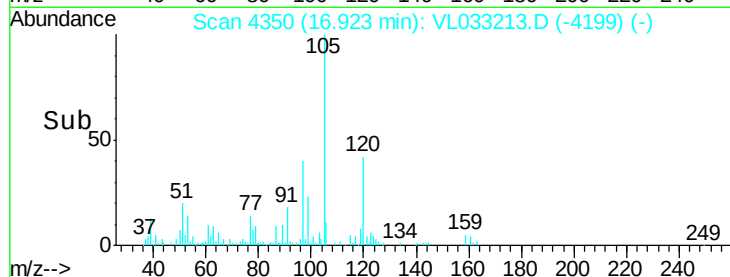
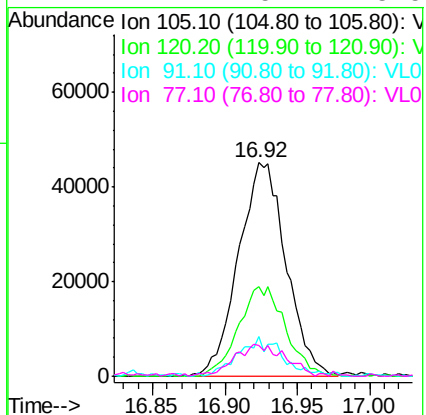
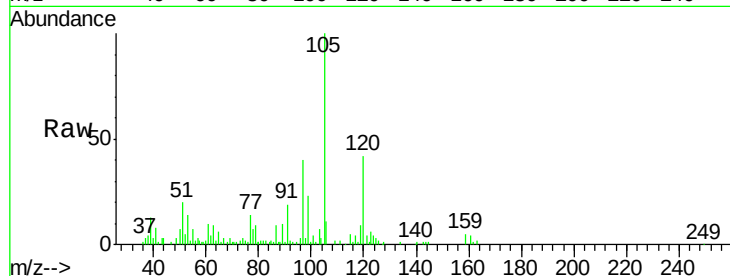
RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	105	Resp:	102948
Ion	Ratio	Lower	Upper
105	100		
120	41.9	37.9	56.9
91	18.7	34.0	51.0#
77	14.4	15.7	23.5#



#79

Naphthalene

Concen: 0.046 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.01 min

Lab File: VL033213.D

Acq: 15 Feb 2019 00:53

Tgt Ion:	128	Resp:	15446
Ion	Ratio	Lower	Upper
128	100		
127	9.6	11.0	16.4#
129	14.6	8.6	12.8#

