

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033219.D
 Acq On : 15 Feb 2019 4:50
 Operator : SY/AP
 Sample : K1483-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:47:28 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019

QLast Update : Wed Feb 20 06:00:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	863415	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1950659	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1930488	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1533711	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

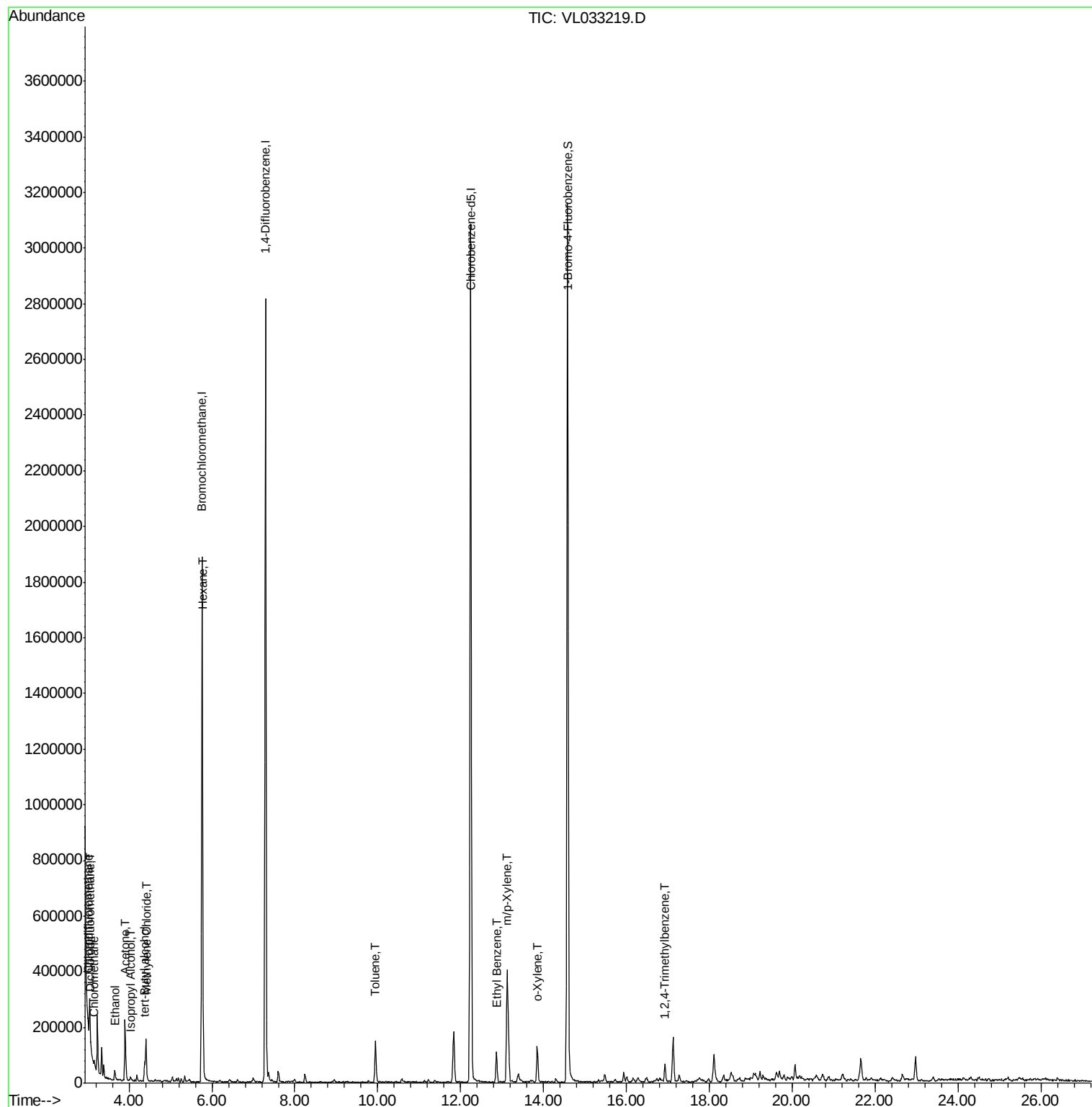
Target Compounds

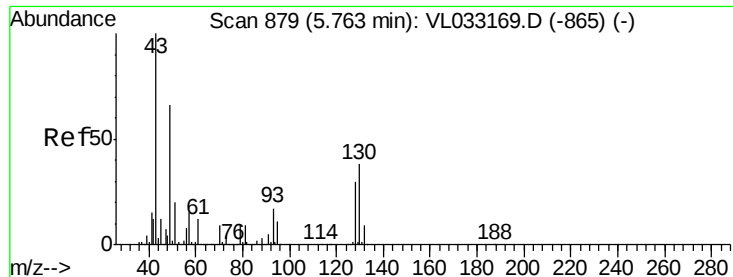
						Ovalue
2) Dichlorodifluoromethane	3.08	85	21299	0.129	ppbv	95
3) Chlorodifluoromethane	3.02	51	26715m	0.257	ppbv	
4) Chloromethane	3.17	50	7128	0.130	ppbv #	76
13) Ethanol	3.66	45	35899m	2.103	ppbv	
15) Acetone	3.90	43	216981	2.231	ppbv	94
17) tert-Butyl alcohol	4.38	59	52788m	2.825	ppbv	
19) Isopropyl Alcohol	4.04	45	14418m	0.219	ppbv	
20) Methylene Chloride	4.41	84	44809	1.158	ppbv	96
26) Hexane	5.78	57	58782	0.573	ppbv #	42
53) Toluene	9.94	91	110364	0.471	ppbv	97
58) Ethyl Benzene	12.87	91	90978	0.287	ppbv	96
59) m/p-Xylene	13.12	91	430547	1.633	ppbv	96
60) o-Xylene	13.85	91	97300	0.379	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	42399m	0.144	ppbv	

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

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QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033219.D

Acq: 15 Feb 2019 4:50

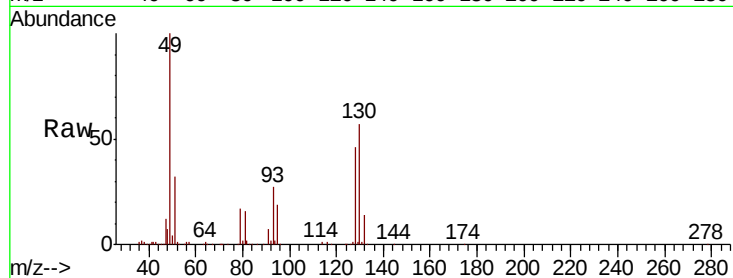
Tot Ion: 49 Resp: 863415

Ion Ratio Lower Upper

49 100

128 46.2 23.6 71.0

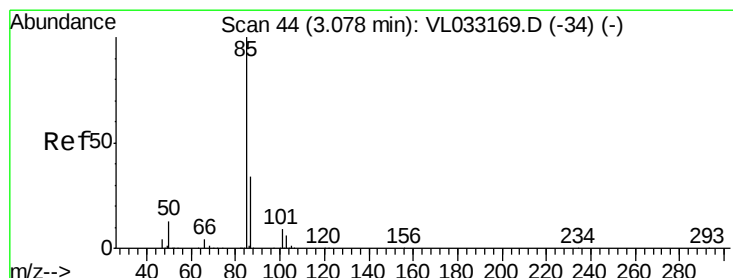
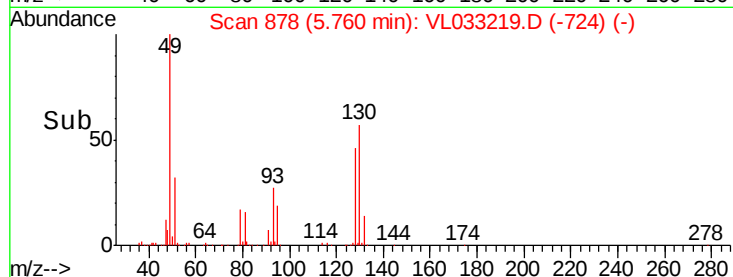
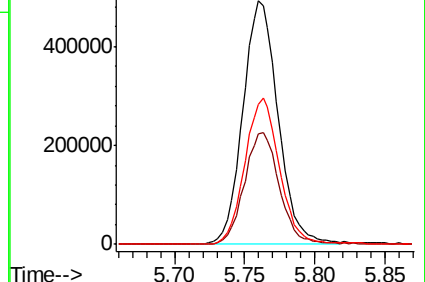
130 59.3 30.3 91.0



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: 0.129 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033219.D

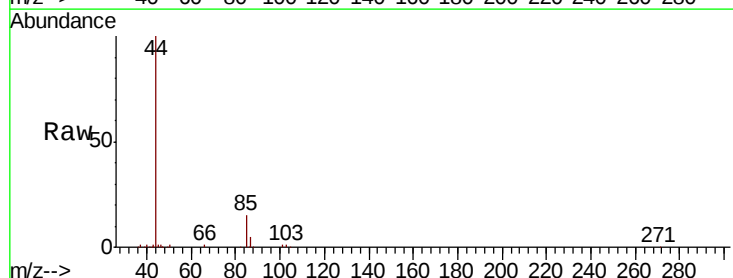
Acq: 15 Feb 2019 4:50

Tgt Ion: 85 Resp: 21299

Ion Ratio Lower Upper

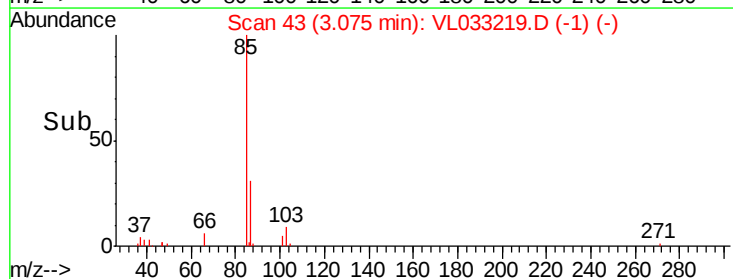
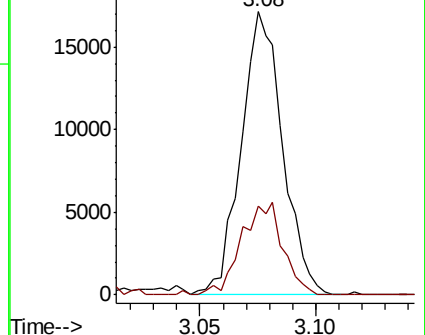
85 100

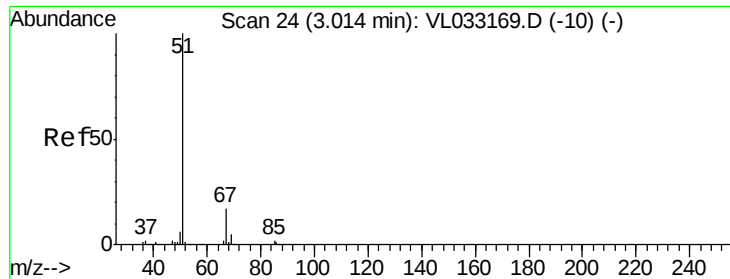
87 31.4 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

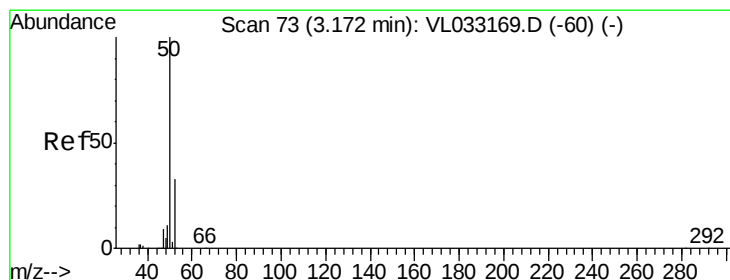
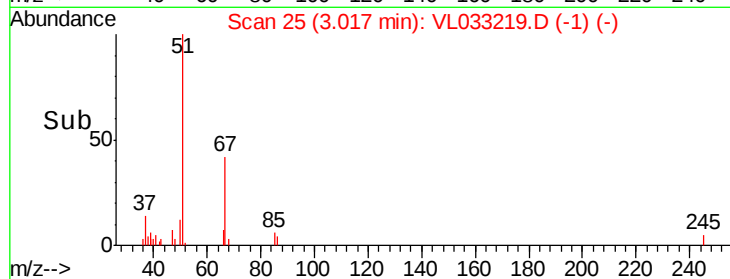
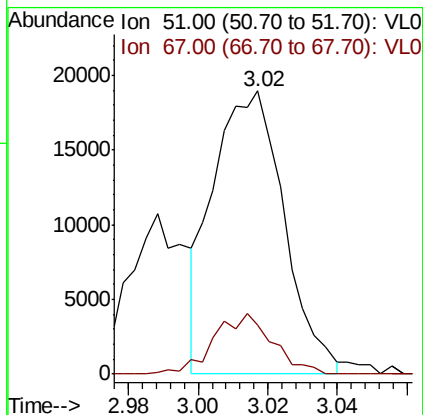
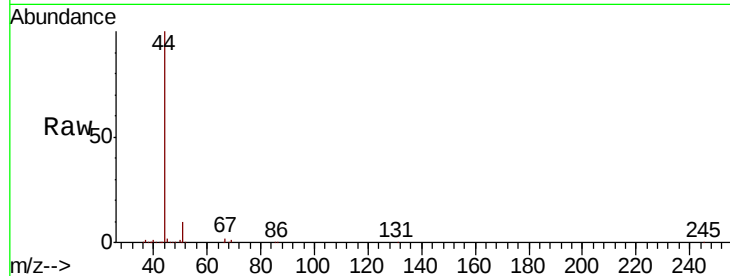




#3

Chlorodifluoromethane
 Concen: 0.257 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

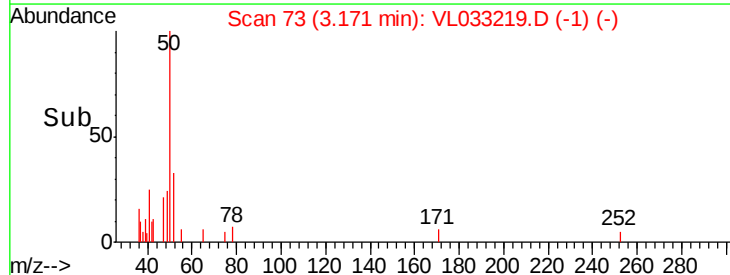
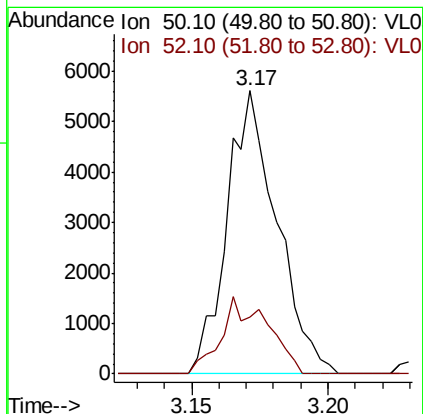
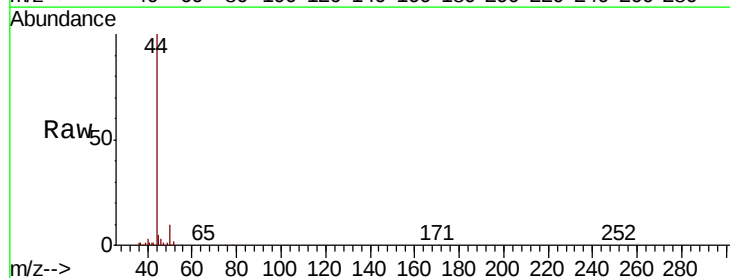
Tot Ion: 51 Resp: 26715
 Ion Ratio Lower Upper
 51 100
 67 17.9 14.0 21.0

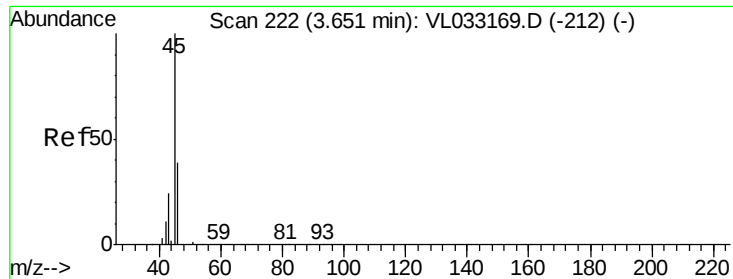


#4

Chloromethane
 Concen: 0.130 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. -0.00 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Tgt Ion: 50 Resp: 7128
 Ion Ratio Lower Upper
 50 100
 52 19.4 26.5 39.7#





#13

Ethanol

Concen: 2.103 ppbv m

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033219.D

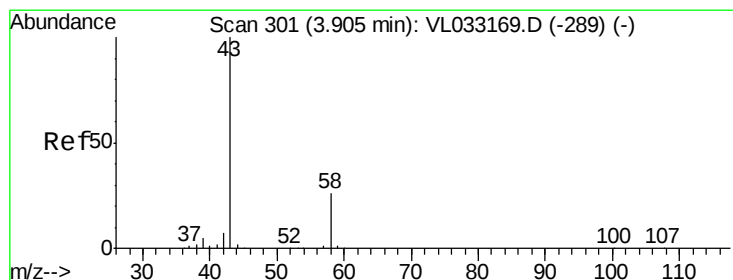
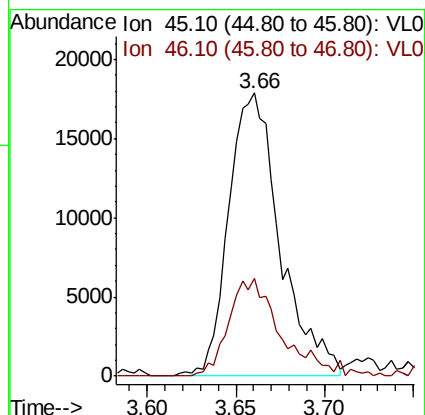
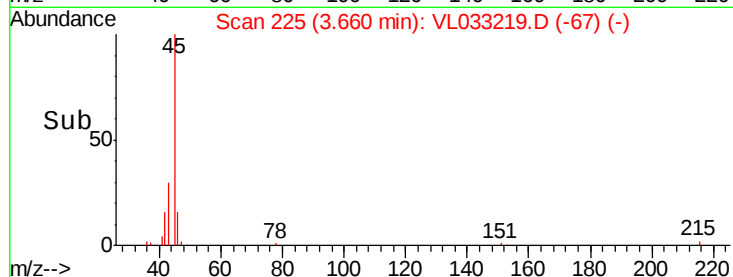
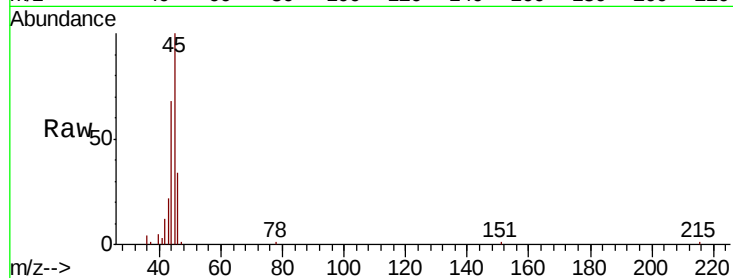
Acq: 15 Feb 2019 4:50

Tot Ion: 45 Resp: 35899

Ion Ratio Lower Upper

45 100

46 35.2 15.0 60.2



#15

Acetone

Concen: 2.231 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033219.D

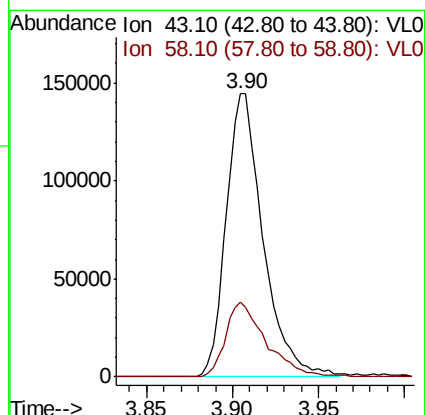
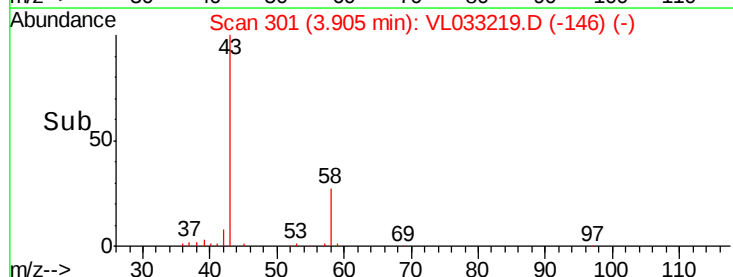
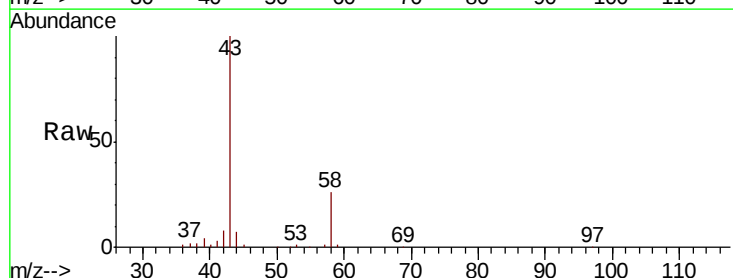
Acq: 15 Feb 2019 4:50

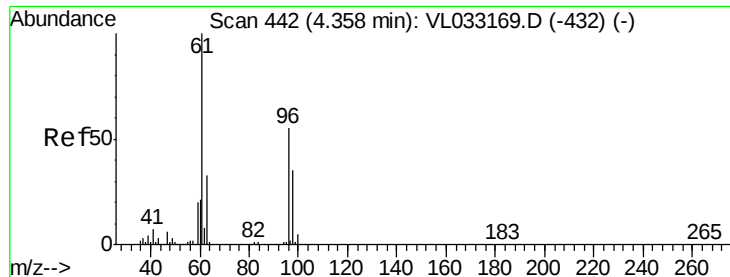
Tgt Ion: 43 Resp: 216981

Ion Ratio Lower Upper

43 100

58 29.4 21.1 31.7





#17

tert-Butyl alcohol

Concen: 2.825 ppbv m

RT: 4.38 min Scan# 448

Delta R.T. 0.02 min

Lab File: VL033219.D

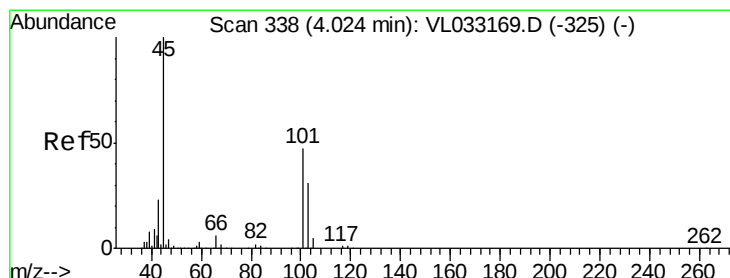
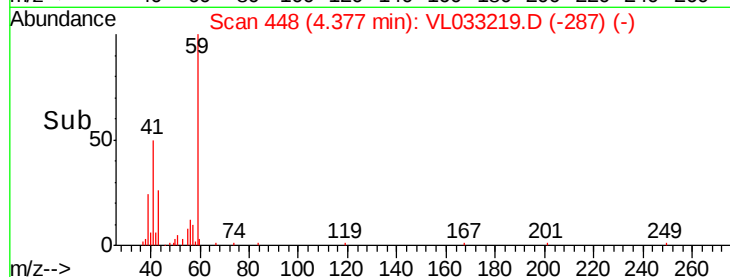
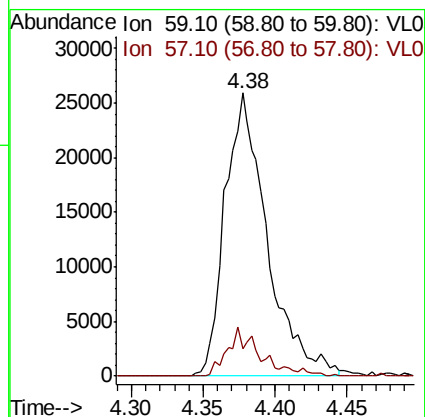
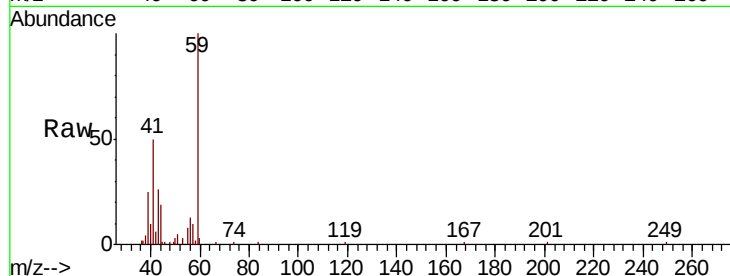
Acq: 15 Feb 2019 4:50

Tot Ion: 59 Resp: 52788

Ion Ratio Lower Upper

59 100

57 13.5 7.6 11.4#



#19

Isopropyl Alcohol

Concen: 0.219 ppbv m

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033219.D

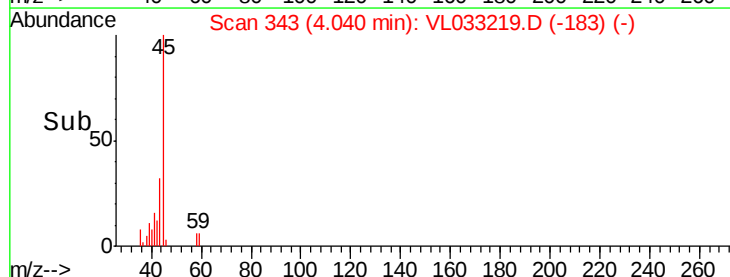
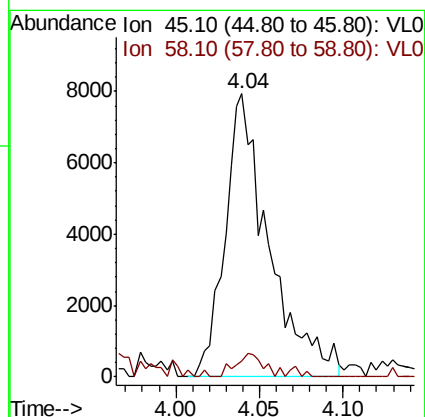
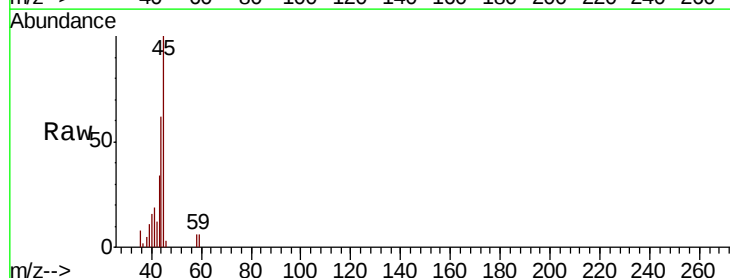
Acq: 15 Feb 2019 4:50

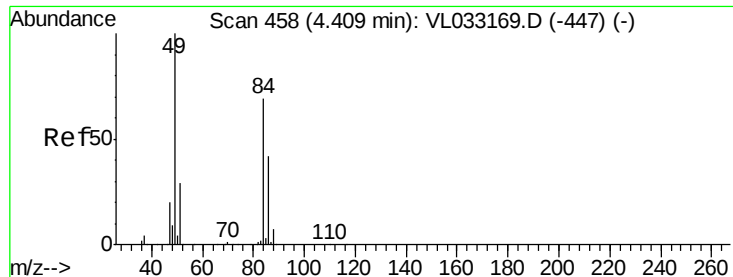
Tgt Ion: 45 Resp: 14418

Ion Ratio Lower Upper

45 100

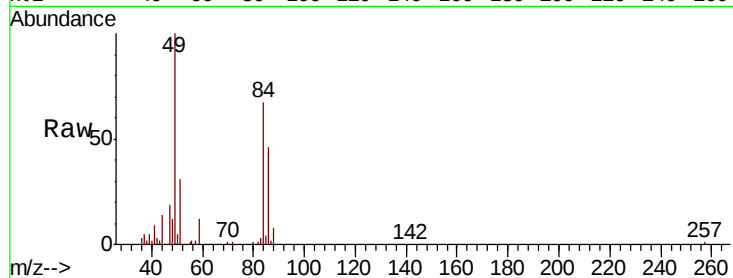
58 0.0 1.5 2.3#



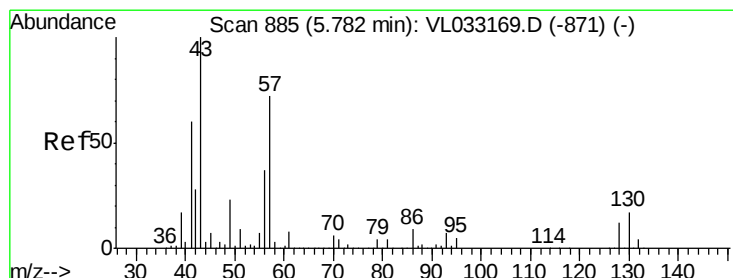
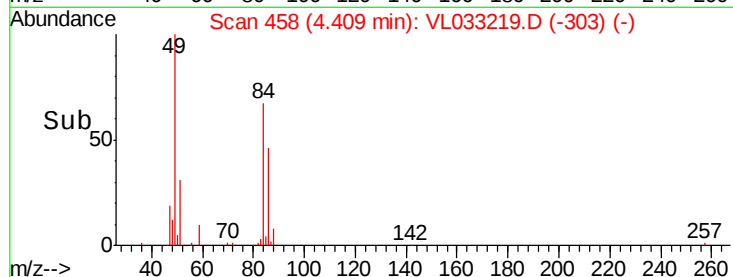
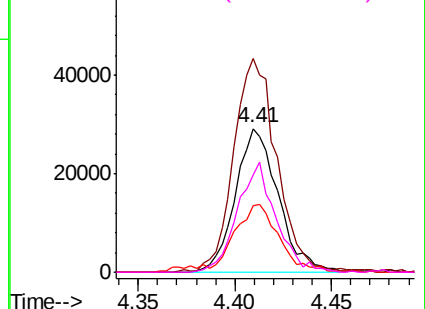


#20
Methvlene Chloride
Concen: 1.158 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tot Ion: 84 Resp: 44809
Ion Ratio Lower Upper
84 100
49 146.4 115.8 173.8
51 45.4 33.0 49.6
86 68.2 48.2 72.2

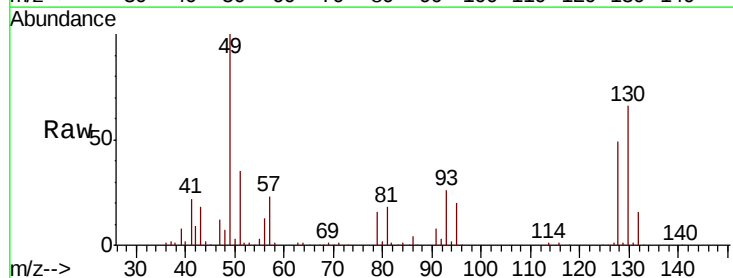


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

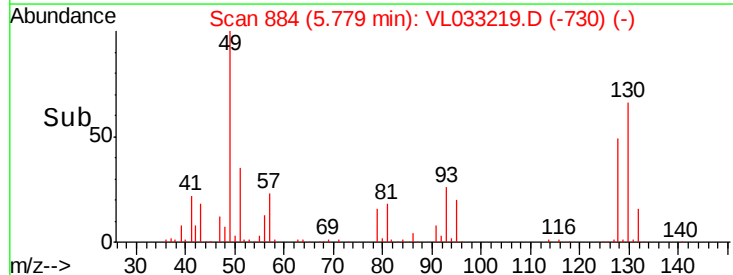
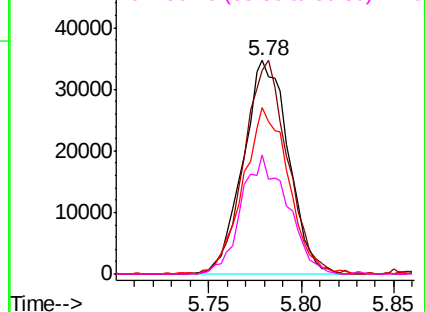


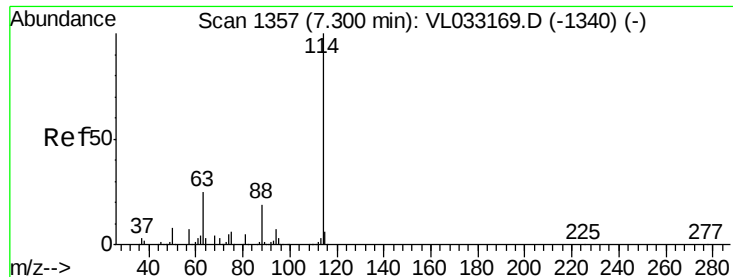
#26
Hexane
Concen: 0.573 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion: 57 Resp: 58782
Ion Ratio Lower Upper
57 100
41 96.7 69.4 104.2
43 78.7 176.7 265.1#
56 56.6 41.4 62.0



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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033219.D

Acq: 15 Feb 2019 4:50

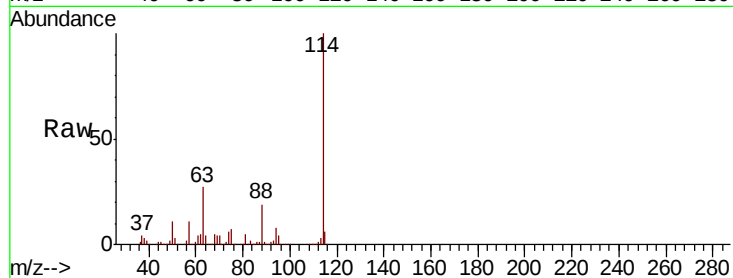
Tot Ion:114 Resp: 1950659

Ion Ratio Lower Upper

114 100

63 26.8 20.8 31.2

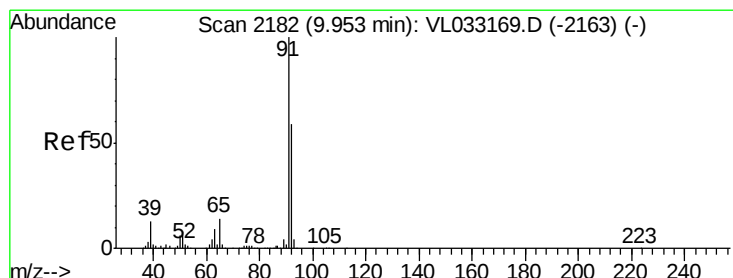
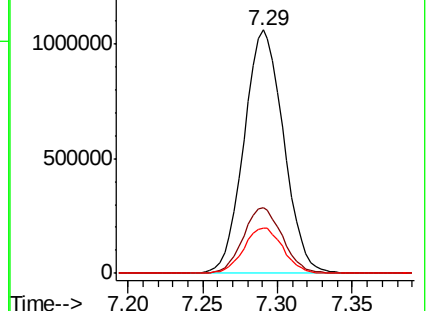
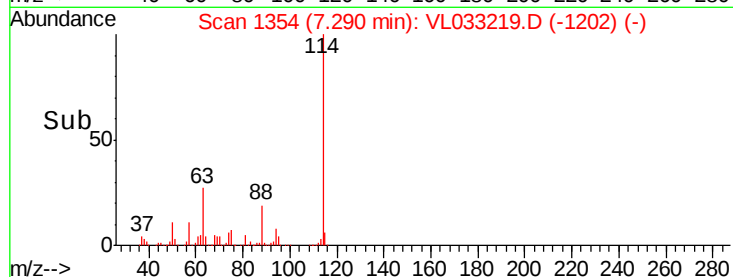
88 18.7 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#53

Toluene

Concen: 0.471 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033219.D

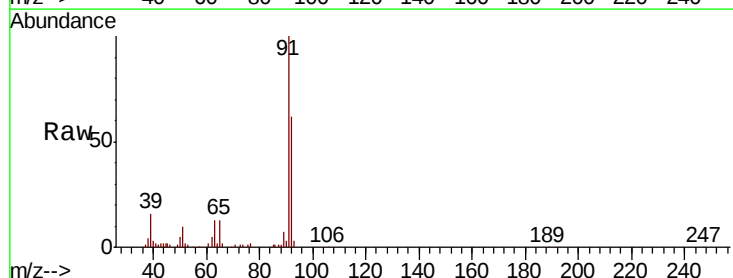
Acq: 15 Feb 2019 4:50

Tgt Ion: 91 Resp: 110364

Ion Ratio Lower Upper

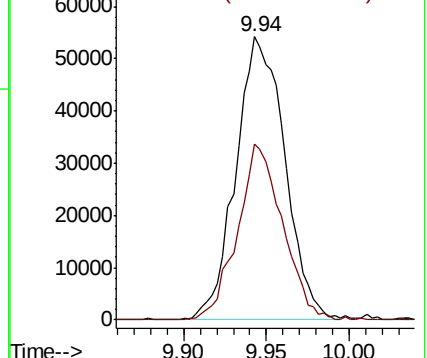
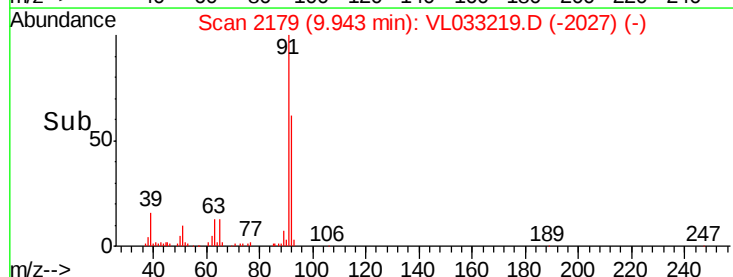
91 100

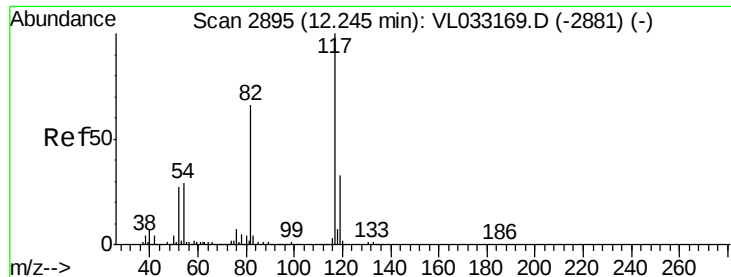
92 57.7 48.0 72.0



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: VL033219.D

Acq: 15 Feb 2019 4:50

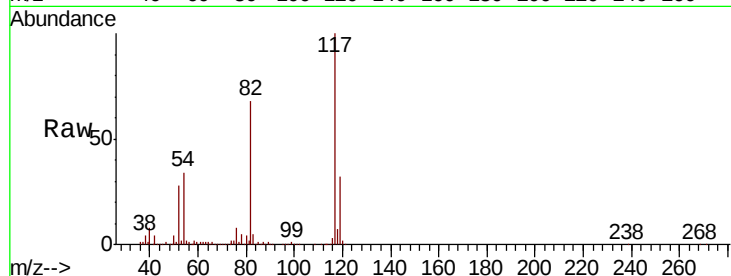
Tot Ion:117 Resp: 1930488

Ion Ratio Lower Upper

117 100

82 67.6 53.8 80.8

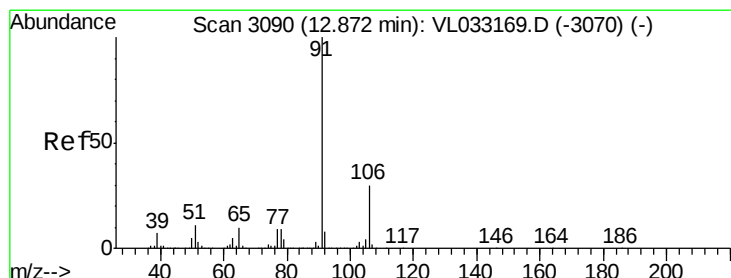
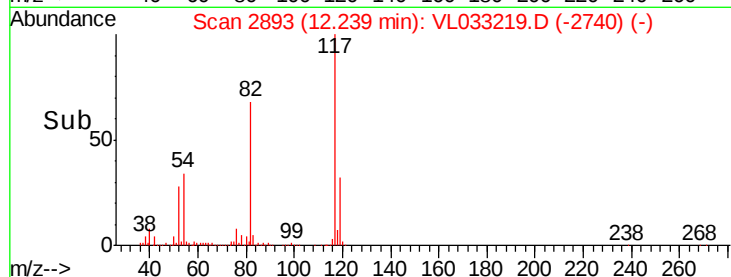
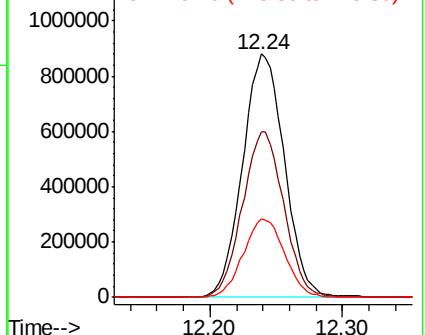
119 32.2 46.9 70.3#



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: 0.287 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033219.D

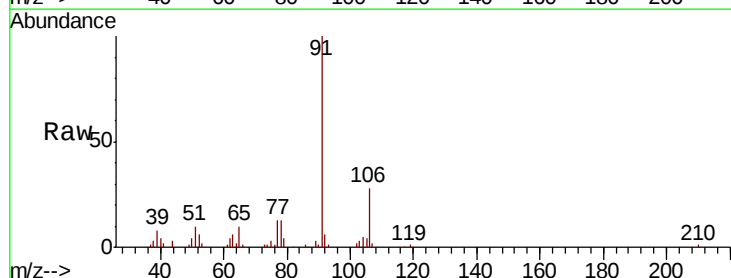
Acq: 15 Feb 2019 4:50

Tgt Ion: 91 Resp: 90978

Ion Ratio Lower Upper

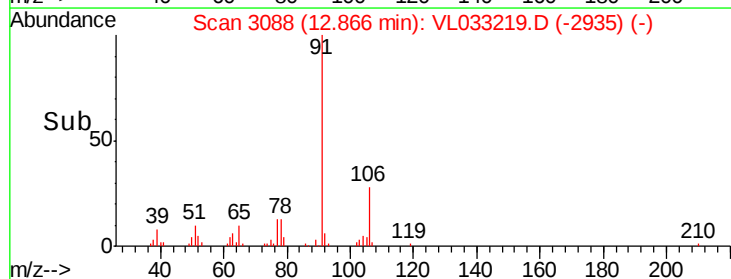
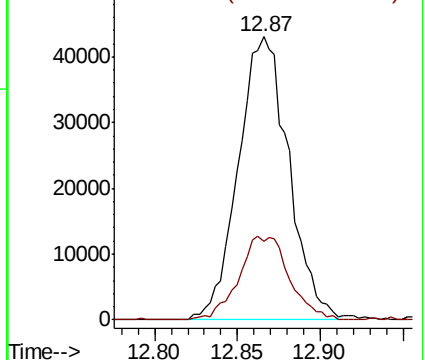
91 100

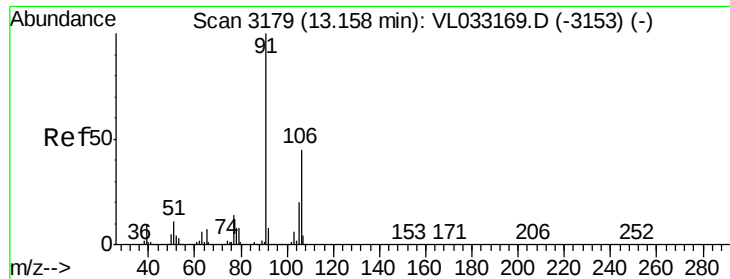
106 27.6 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

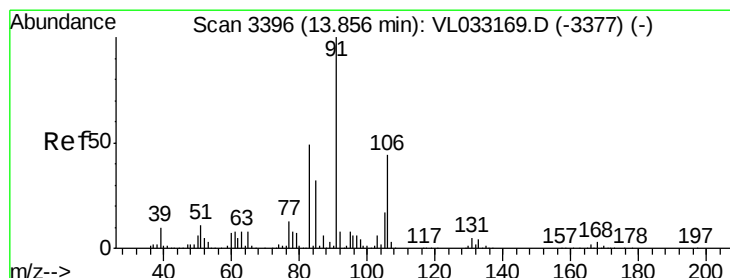
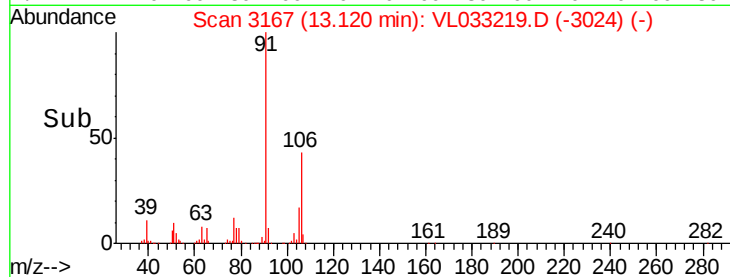
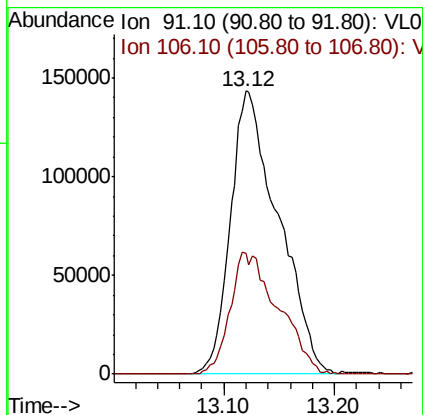
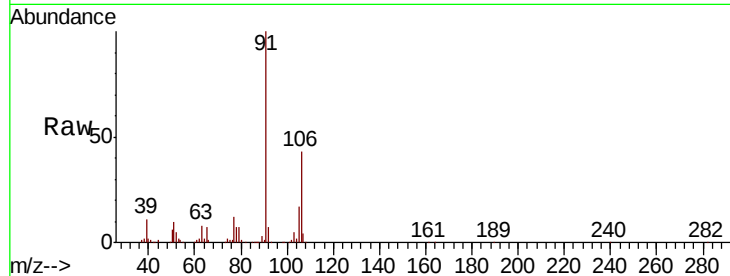
Ion 106.10 (105.80 to 106.80): V





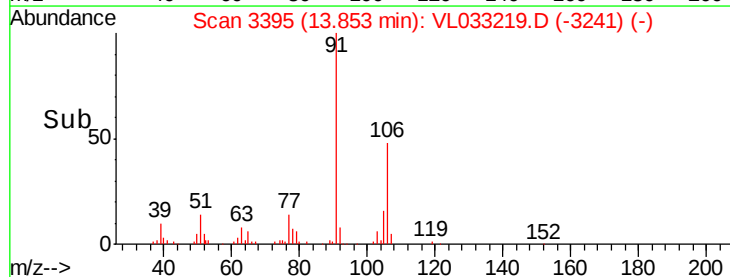
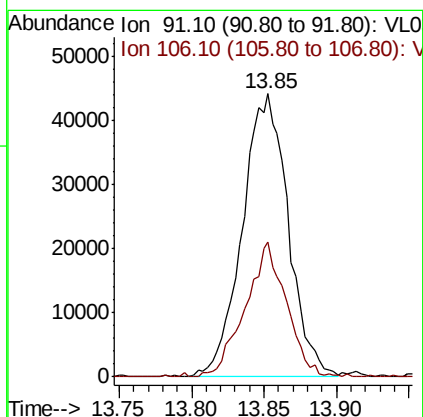
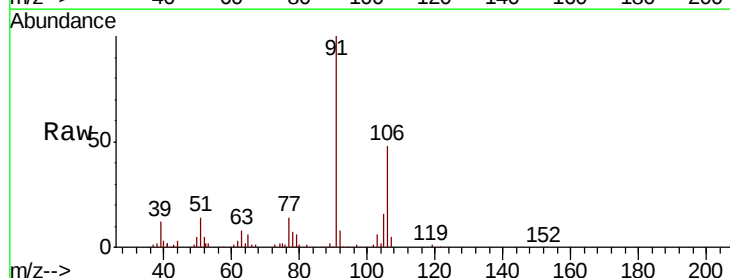
#59
m/p-Xylene
Concen: 1.633 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

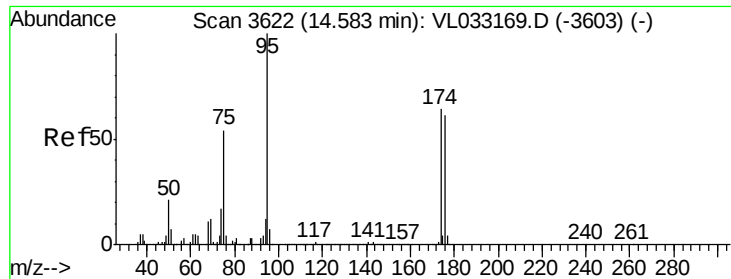
Tot Ion: 91 Resp: 430547
Ion Ratio Lower Upper
91 100
106 43.2 36.6 55.0



#60
o-Xylene
Concen: 0.379 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

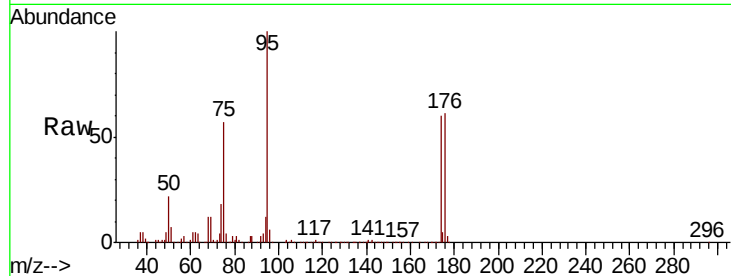
Tgt Ion: 91 Resp: 97300
Ion Ratio Lower Upper
91 100
106 43.0 21.8 65.3



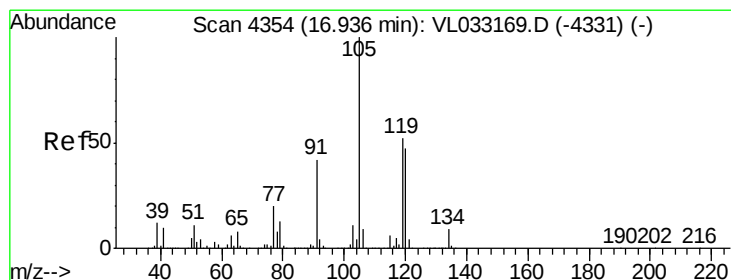
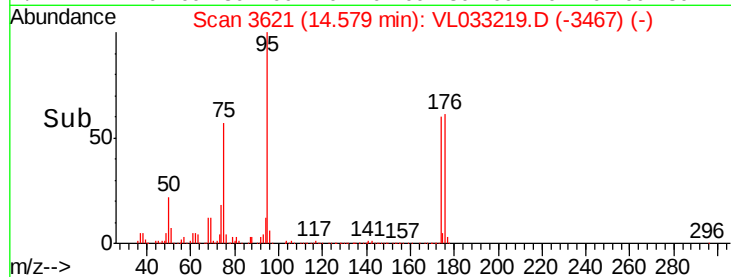
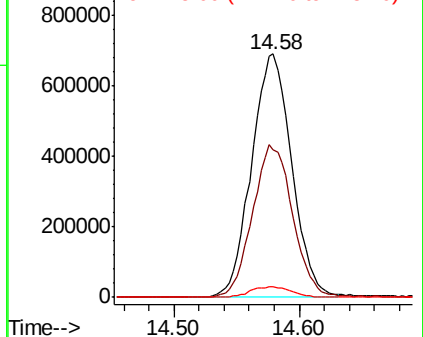


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.195 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Tot Ion: 95 Resp: 1533711
 Ion Ratio Lower Upper
 95 100
 174 63.3 51.1 76.7
 175 4.6 3.8 5.6

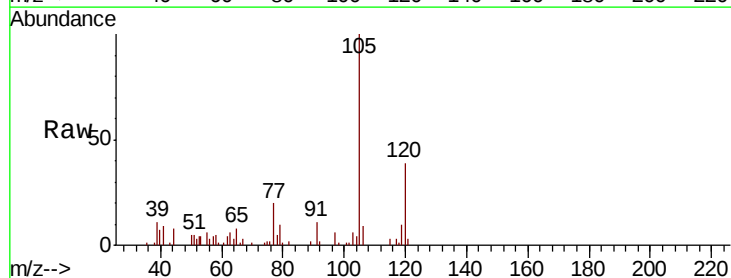


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#74
 1,2,4-Trimethylbenzene
 Concen: 0.144 ppbv m
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Tgt Ion: 105 Resp: 42399
 Ion Ratio Lower Upper
 105 100
 120 39.5 37.9 56.9
 91 10.7 34.0 51.0#
 77 19.9 15.7 23.5



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

