

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020620\
 Data File : VL034604.D
 Acq On : 6 Feb 2020 18:11
 Operator : SY/AP
 Sample : L1435-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Feb 07 08:05:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	902759	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1877413	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	1824013	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1590637	10.32	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

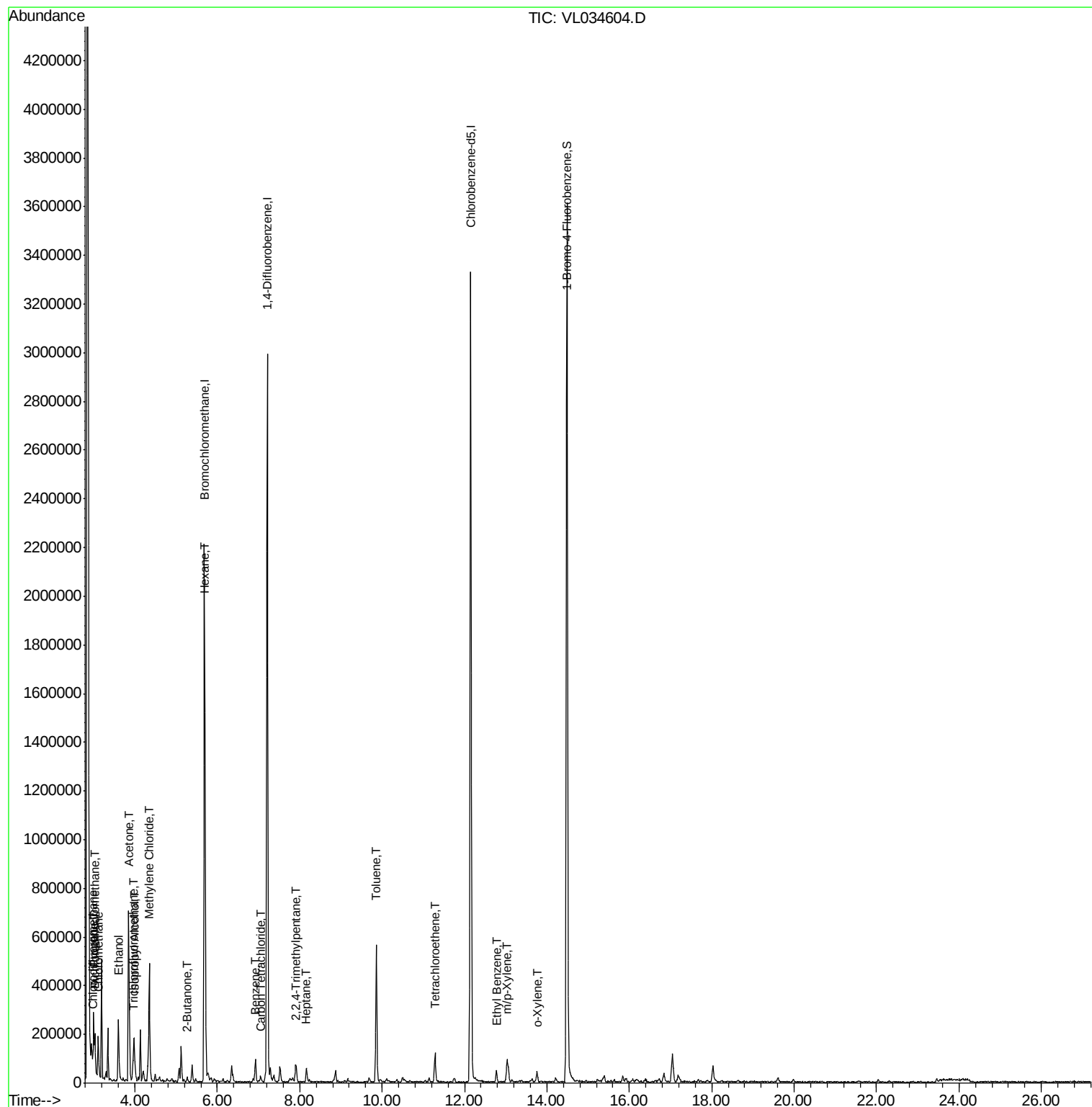
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	100690	0.506	ppbv	100
3) Chlorodifluoromethane	2.97	51	35090m	0.322	ppbv	
4) Chloromethane	3.12	50	28689m	0.430	ppbv	
9) Propene	3.00	41	46317m	1.091	ppbv	
10) Heptane	8.16	43	15931m	0.149	ppbv	
11) Trichlorofluoromethane	3.95	101	45306	0.251	ppbv	94
13) Ethanol	3.60	45	241915	21.265	ppbv	99
15) Acetone	3.84	43	717516	5.408	ppbv	97
19) Isopropyl Alcohol	3.97	45	199556	2.577	ppbv #	94
20) Methylene Chloride	4.35	84	152570	3.020	ppbv	95
26) Hexane	5.71	57	117201	1.303	ppbv #	40
34) 2-Butanone	5.27	43	18352m	0.135	ppbv	
35) Carbon Tetrachloride	7.05	117	12745m	0.071	ppbv	
36) Benzene	6.93	78	60676	0.363	ppbv #	90
44) 2,2,4-Trimethylpentane	7.90	57	42389m	0.140	ppbv	
52) Tetrachloroethene	11.29	164	24203m	0.361	ppbv	
53) Toluene	9.86	91	373158	2.035	ppbv	99
58) Ethyl Benzene	12.77	91	34674m	0.142	ppbv	
59) m/p-Xylene	13.04	91	96042m	0.445	ppbv	
60) o-Xylene	13.76	91	31628m	0.146	ppbv	

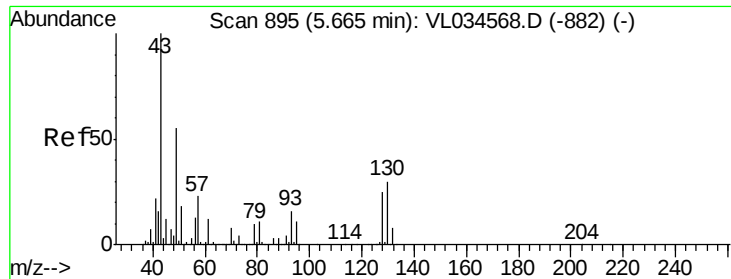
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA-1

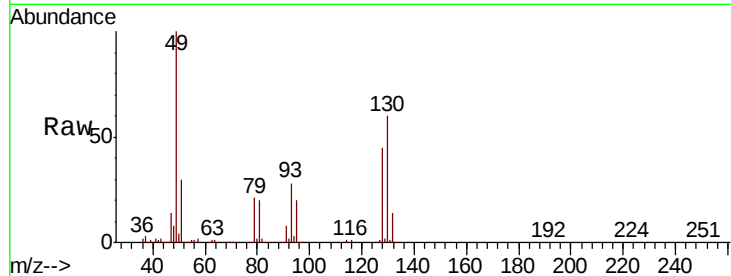
Tot Ion: 49 Resp: 902759

Ion Ratio Lower Upper

49 100

128 45.9 22.7 68.1

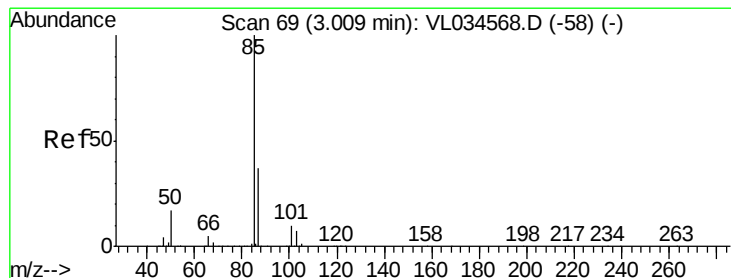
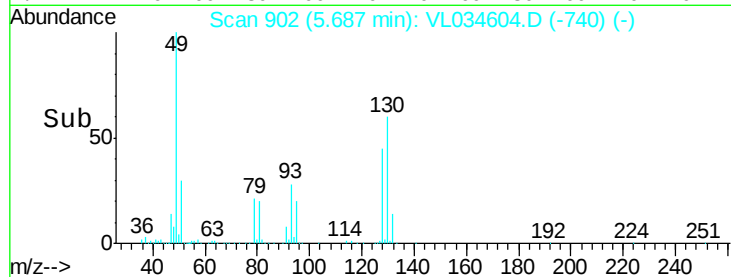
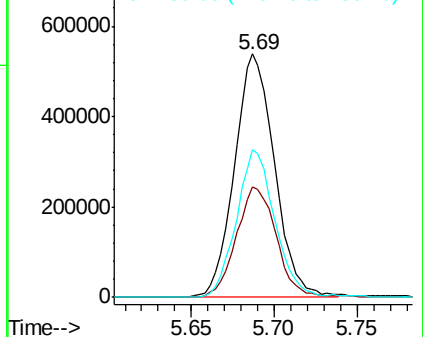
130 59.1 28.6 85.8



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: 0.506 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL034604.D

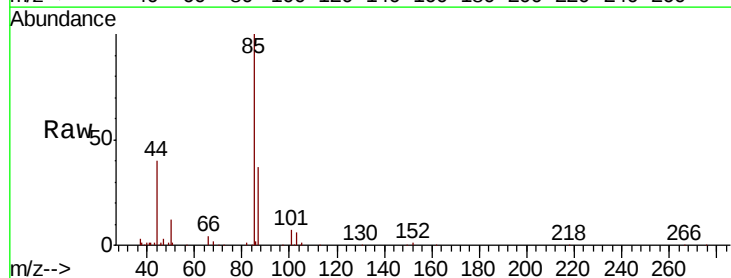
Acq: 6 Feb 2020 18:11

Tgt Ion: 85 Resp: 100690

Ion Ratio Lower Upper

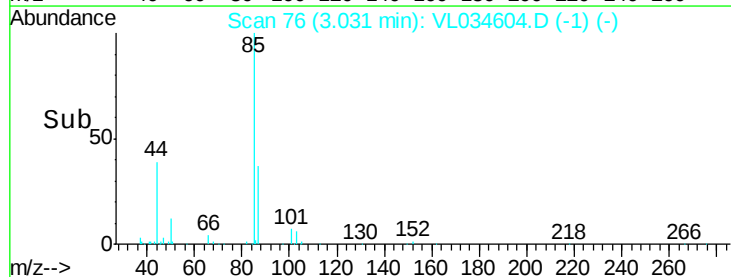
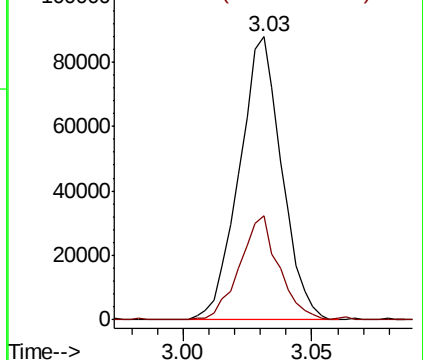
85 100

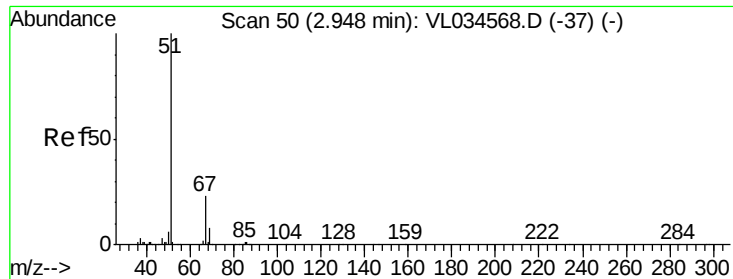
87 36.6 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.322 ppbv m

RT: 2.97 min Scan# 57

Delta R.T. 0.02 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

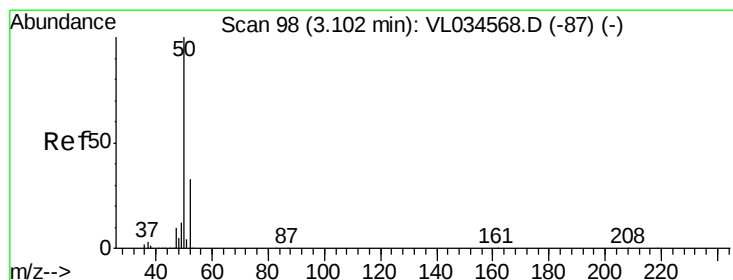
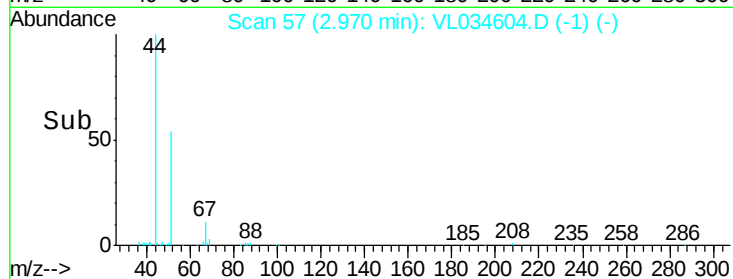
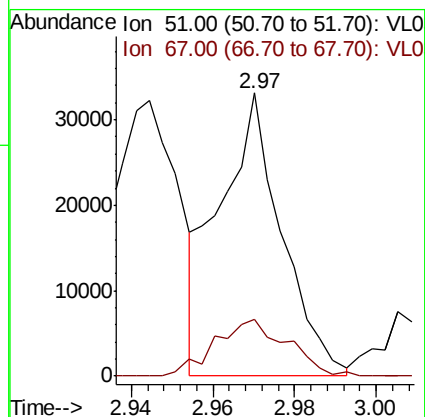
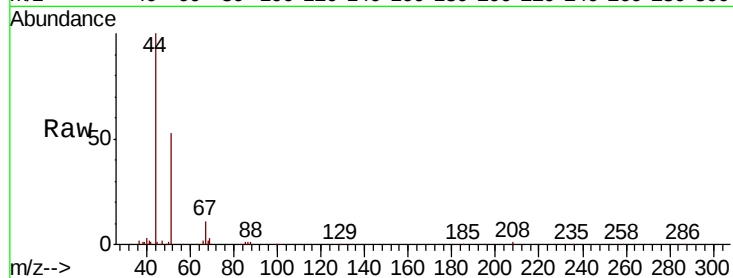
IA-1

Tot Ion: 51 Resp: 35090

Ion Ratio Lower Upper

51 100

67 18.5 17.8 26.8



#4

Chloromethane

Concen: 0.430 ppbv m

RT: 3.12 min Scan# 103

Delta R.T. 0.02 min

Lab File: VL034604.D

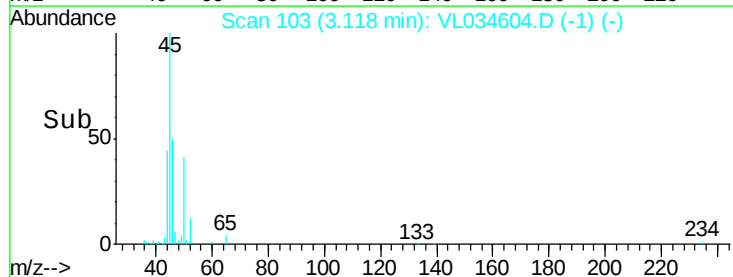
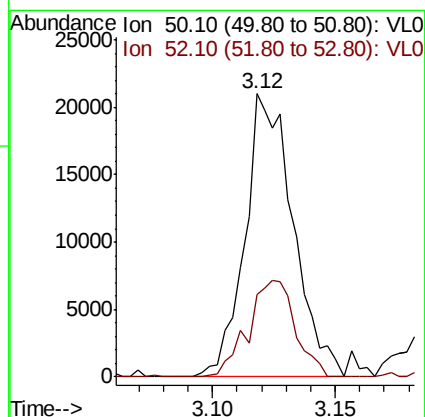
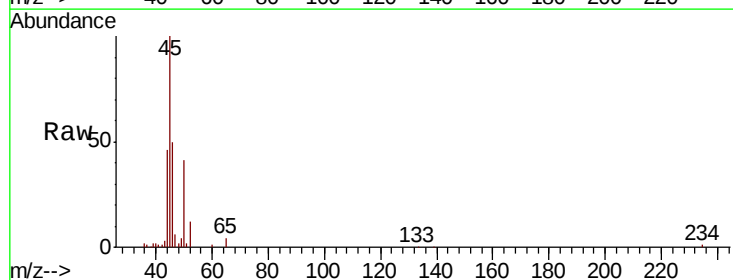
Acq: 6 Feb 2020 18:11

Tgt Ion: 50 Resp: 28689

Ion Ratio Lower Upper

50 100

52 29.0 26.6 39.8





#9

Propene

Concen: 1.091 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

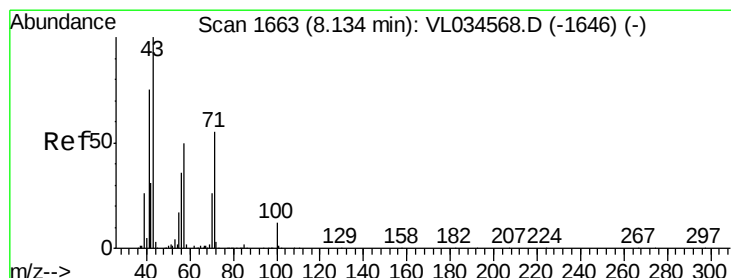
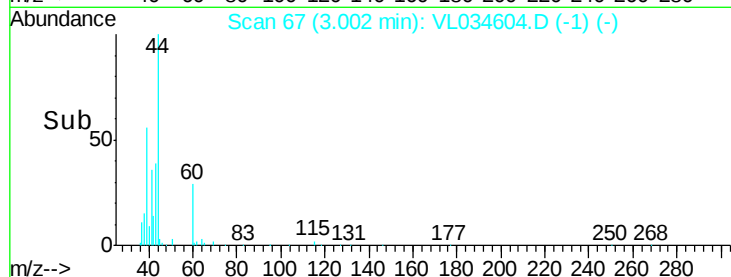
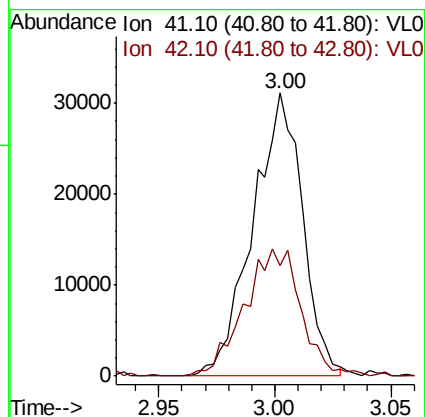
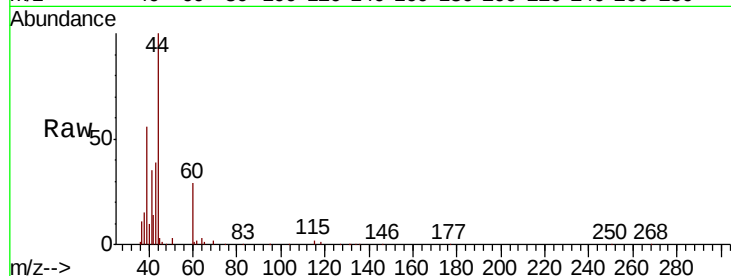
IA-1

Tot Ion: 41 Resp: 46317

Ion Ratio Lower Upper

41 100

42 164.9 57.0 85.4#



#10

Heptane

Concen: 0.149 ppbv m

RT: 8.16 min Scan# 1671

Delta R.T. 0.03 min

Lab File: VL034604.D

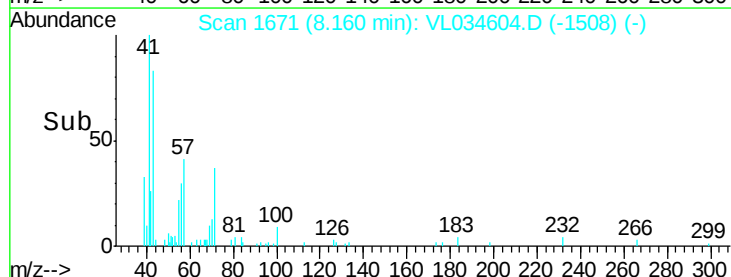
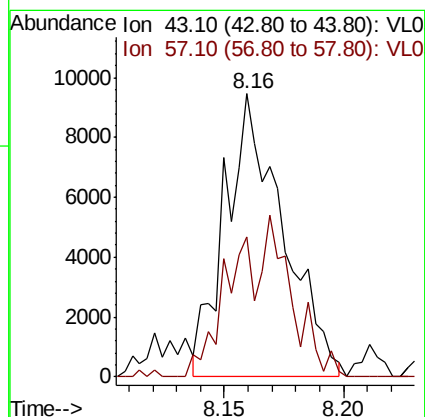
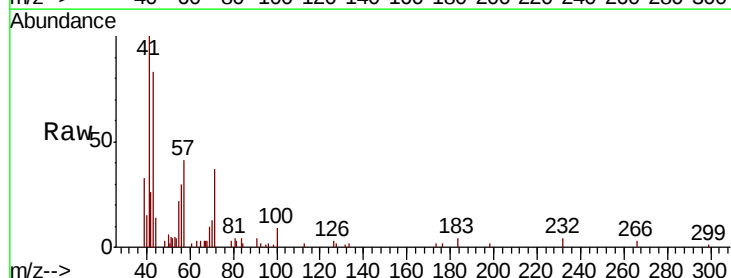
Acq: 6 Feb 2020 18:11

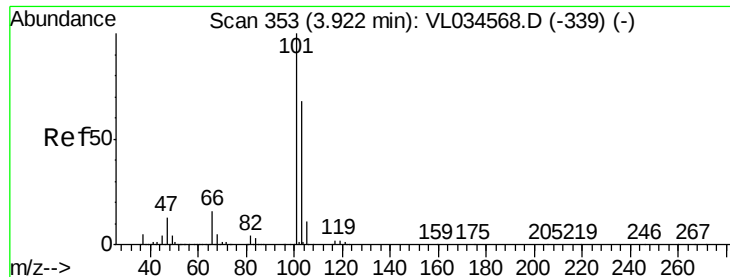
Tgt Ion: 43 Resp: 15931

Ion Ratio Lower Upper

43 100

57 0.0 41.2 61.8#

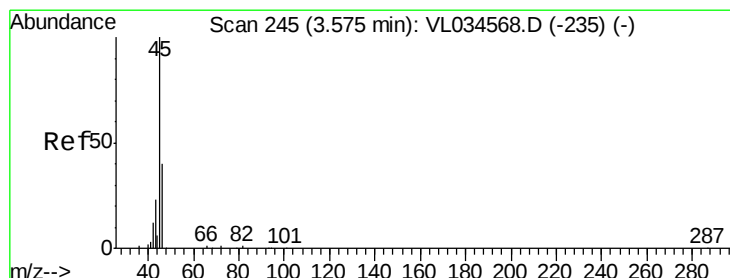
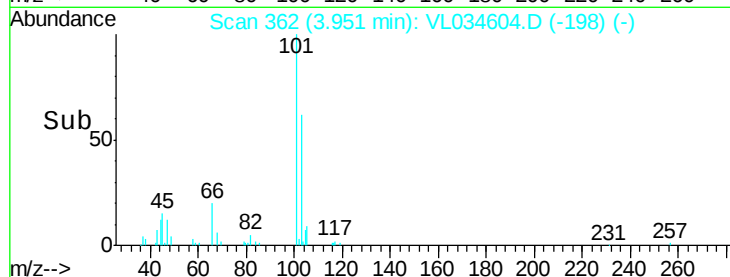
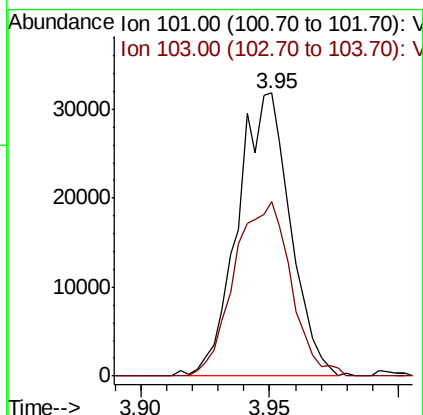
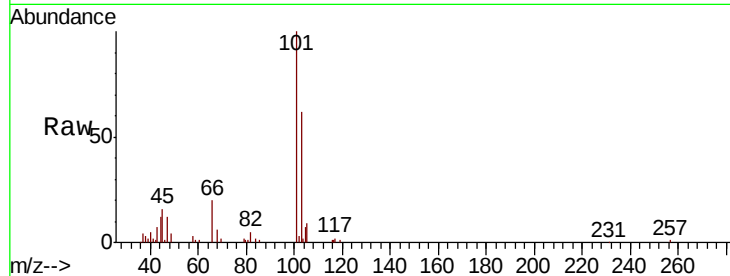




#11
 Trichlorofluoromethane
 Concen: 0.251 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.03 min
 Lab File: VL034604.D
 Acq: 6 Feb 2020 18:11

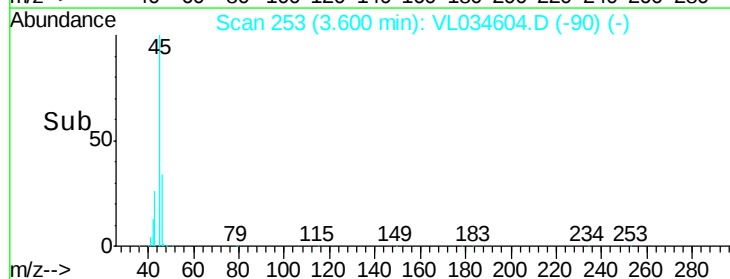
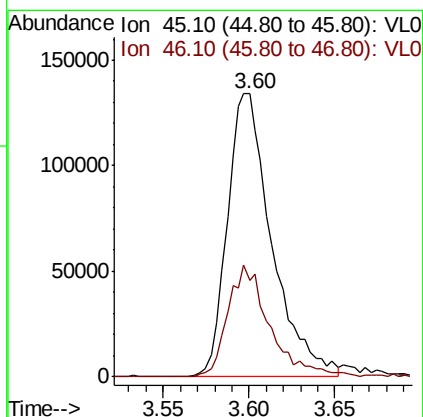
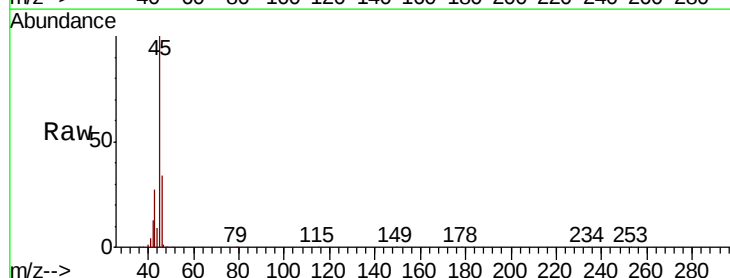
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

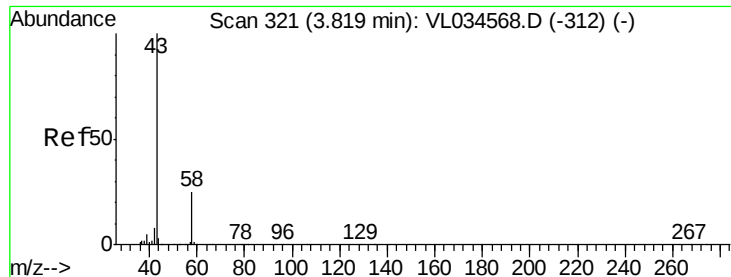
Tot Ion:101 Resp: 45306
 Ion Ratio Lower Upper
 101 100
 103 63.3 54.4 81.6



#13
 Ethanol
 Concen: 21.265 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. 0.03 min
 Lab File: VL034604.D
 Acq: 6 Feb 2020 18:11

Tgt Ion: 45 Resp: 241915
 Ion Ratio Lower Upper
 45 100
 46 37.8 14.8 59.2





#15

Acetone

Concen: 5.408 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

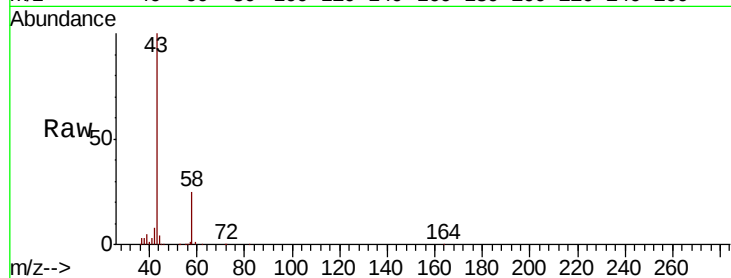
IA-1

Tot Ion: 43 Resp: 717516

Ion Ratio Lower Upper

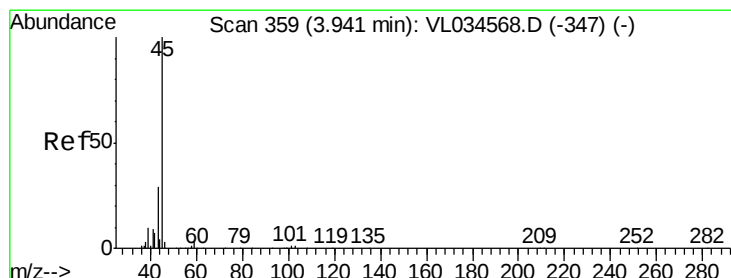
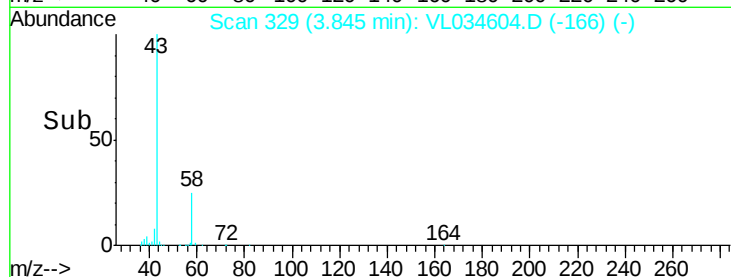
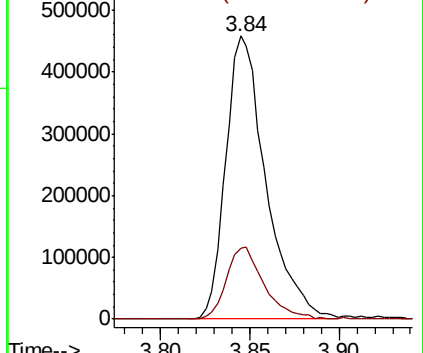
43 100

58 24.1 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 2.577 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.03 min

Lab File: VL034604.D

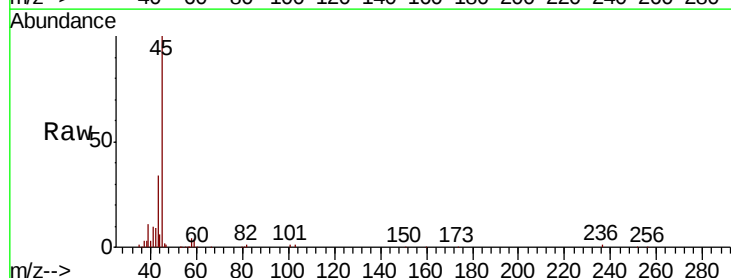
Acq: 6 Feb 2020 18:11

Tgt Ion: 45 Resp: 199556

Ion Ratio Lower Upper

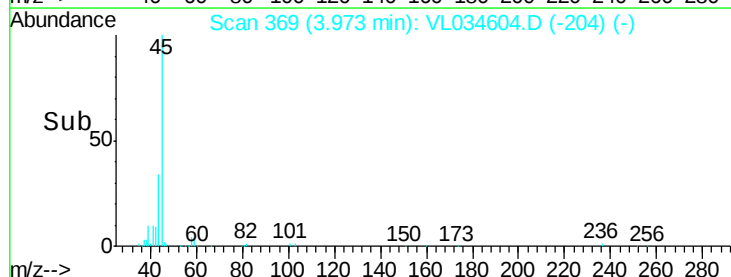
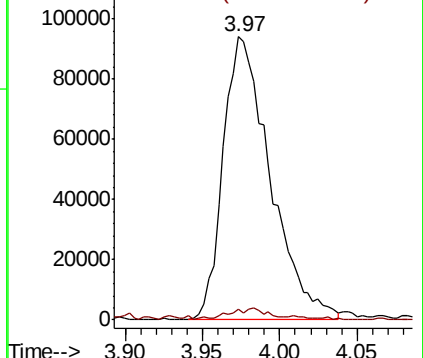
45 100

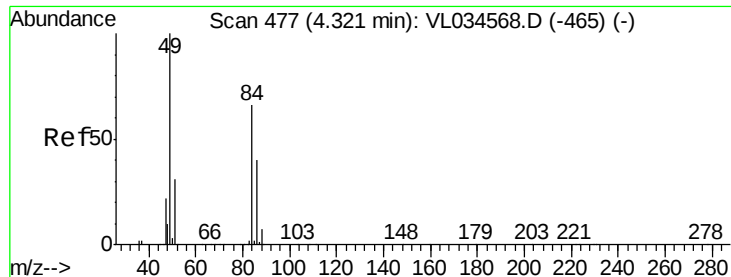
58 4.2 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

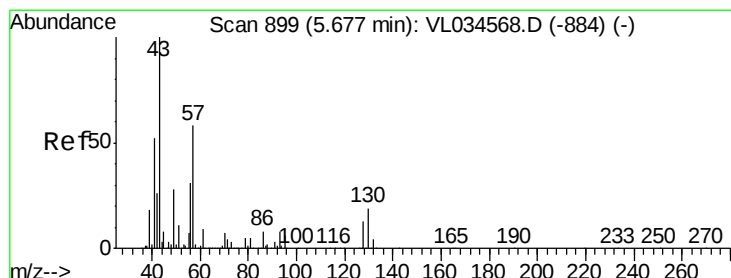
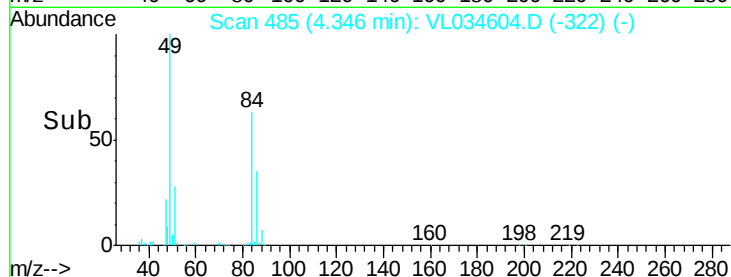
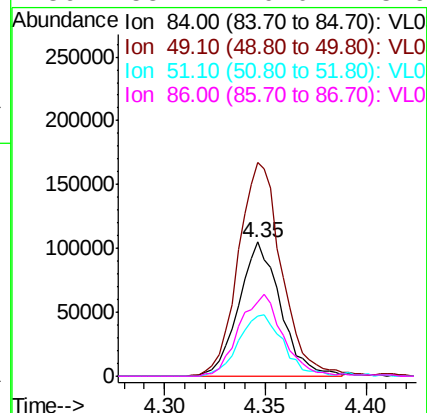
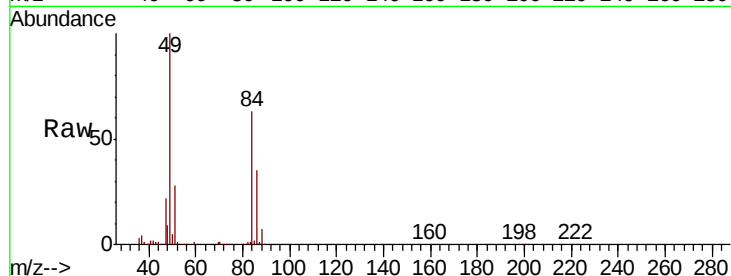




#20
Methvlene Chloride
Concen: 3.020 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.03 min
Lab File: VL034604.D
Acq: 6 Feb 2020 18:11

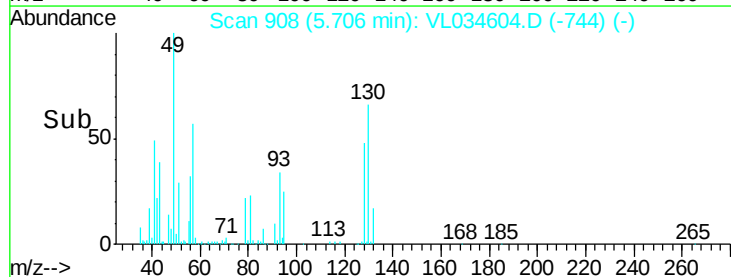
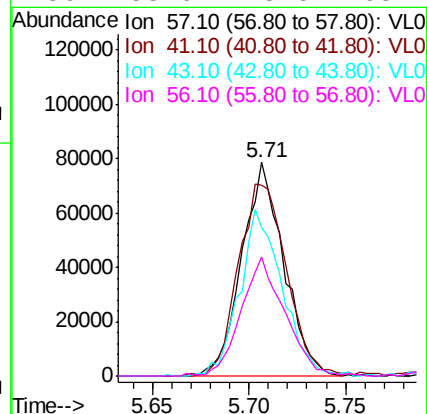
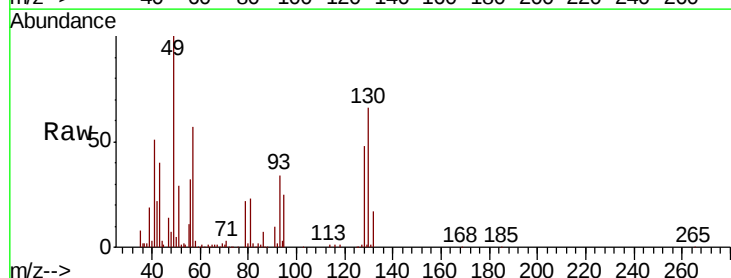
Instrument :
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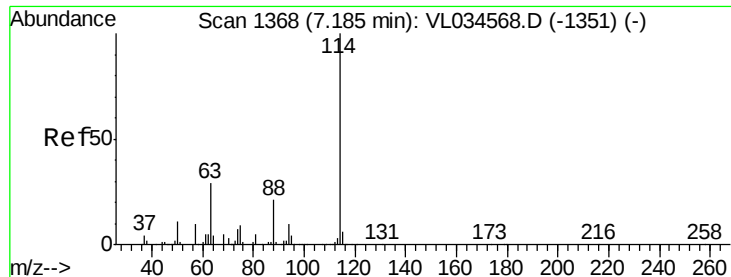
Tot Ion: 84 Resp: 152570
Ion Ratio Lower Upper
84 100
49 158.3 122.4 183.6
51 44.9 38.6 57.8
86 55.4 49.0 73.6



#26
Hexane
Concen: 1.303 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL034604.D
Acq: 6 Feb 2020 18:11

Tgt Ion: 57 Resp: 117201
Ion Ratio Lower Upper
57 100
41 105.6 76.2 114.2
43 80.5 189.9 284.9#
56 58.6 43.6 65.4

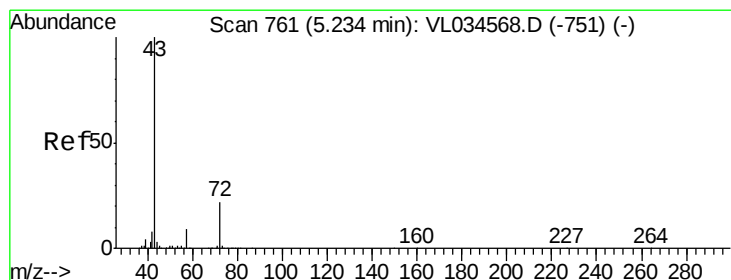
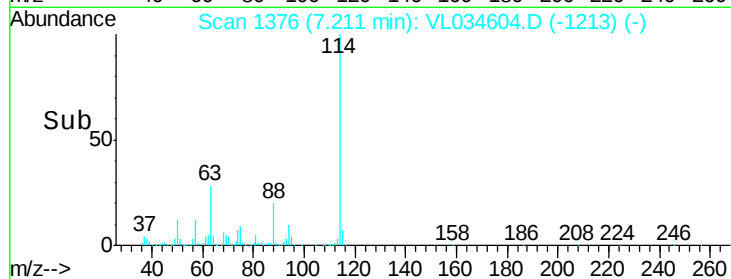
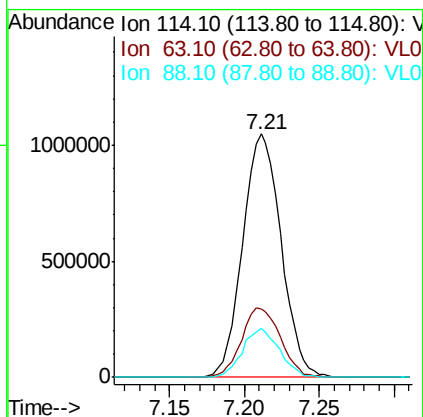
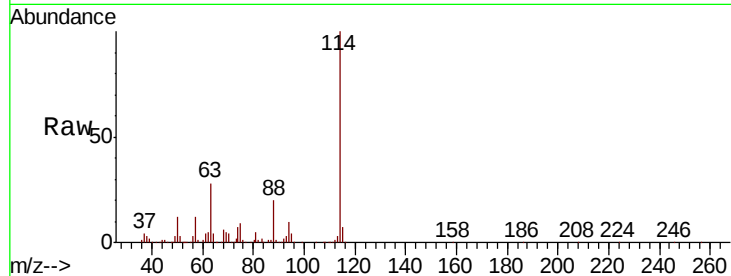




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.03 min
 Lab File: VL034604.D
 Acq: 6 Feb 2020 18:11

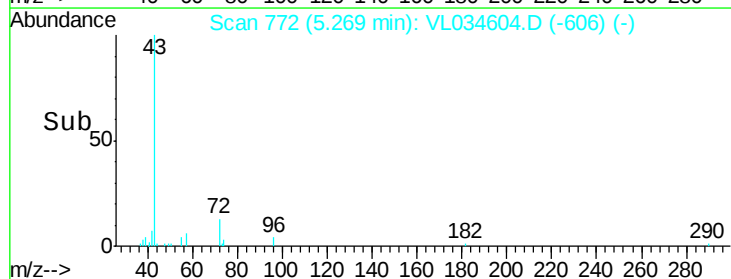
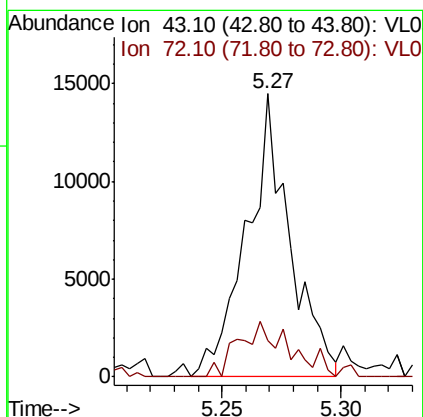
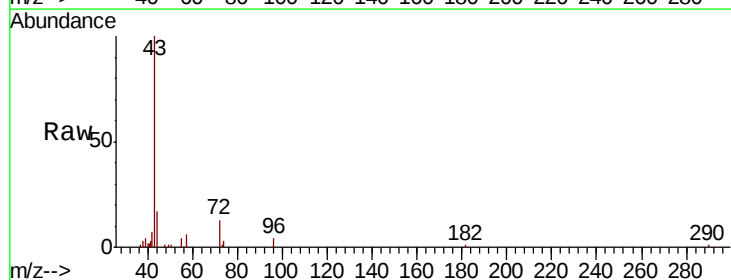
Instrument :
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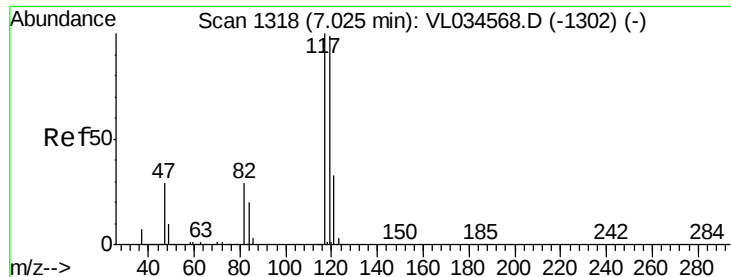
Tot Ion:114 Resp: 1877413
 Ion Ratio Lower Upper
 114 100
 63 29.0 24.1 36.1
 88 19.4 15.9 23.9



#34
 2-Butanone
 Concen: 0.135 ppbv m
 RT: 5.27 min Scan# 772
 Delta R.T. 0.04 min
 Lab File: VL034604.D
 Acq: 6 Feb 2020 18:11

Tgt Ion: 43 Resp: 18352
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.2 25.8#





#35

Carbon Tetrachloride

Concen: 0.071 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA-1

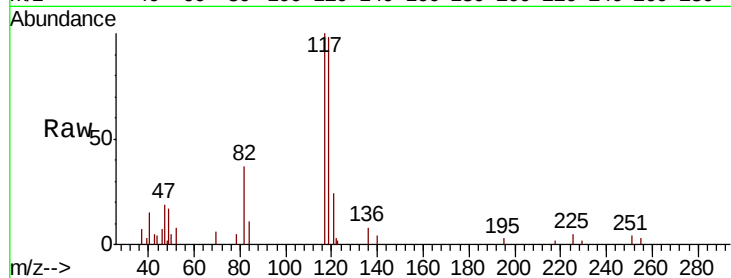
Tot Ion:117 Resp: 12745

Ion Ratio Lower Upper

117 100

119 97.5 79.5 119.3

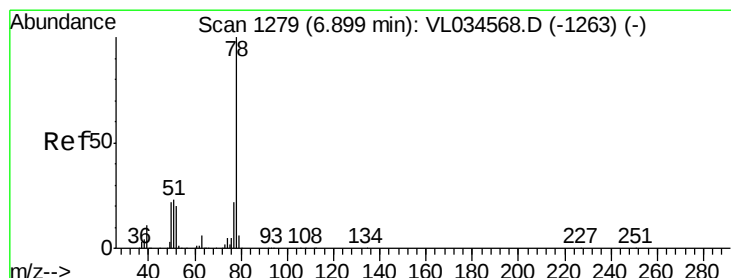
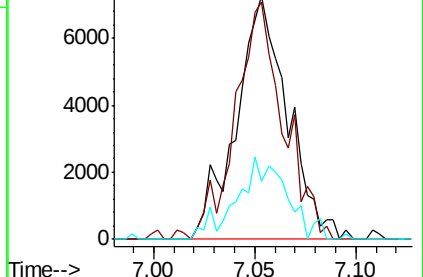
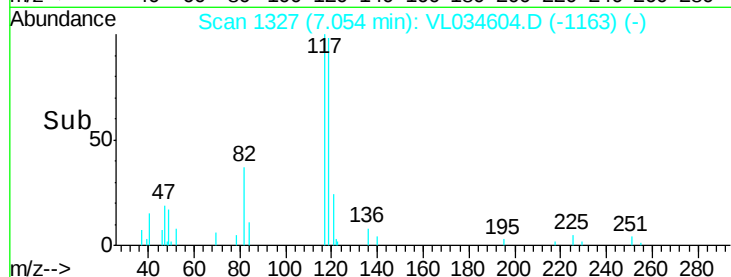
121 23.7 26.2 39.2#



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: 0.363 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

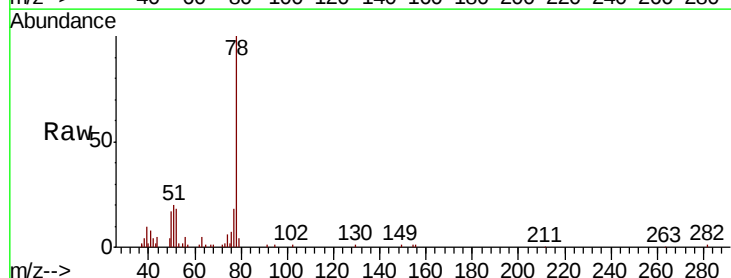
Tgt Ion: 78 Resp: 60676

Ion Ratio Lower Upper

78 100

77 17.3 17.3 25.9

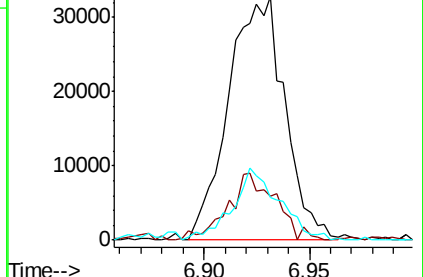
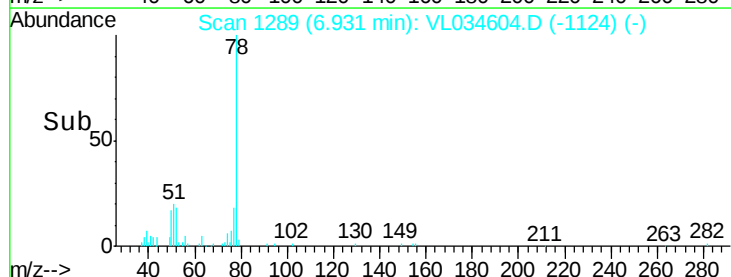
50 16.4 17.4 26.2#

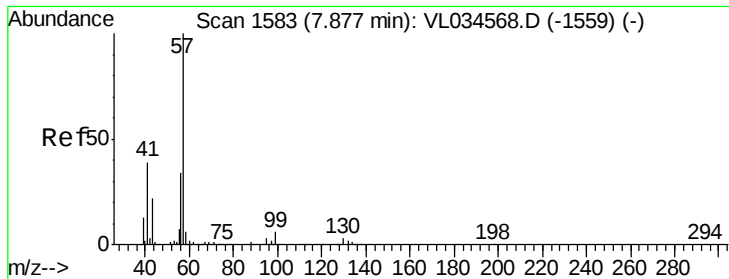


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

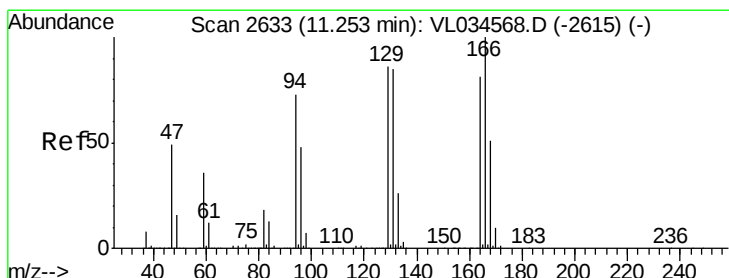
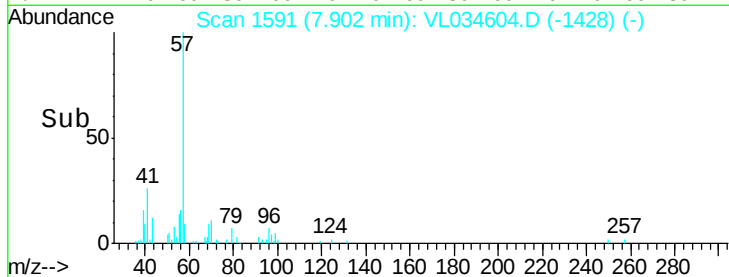
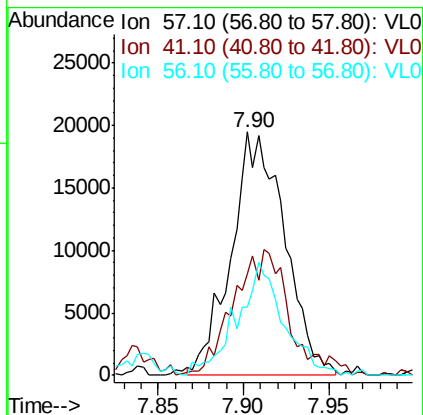
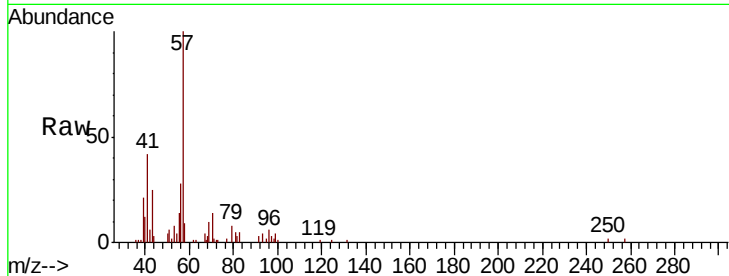




#44
 2,2,4-Trimethylpentane
 Concen: 0.140 ppbv m
 RT: 7.90 min Scan# 1591
 Delta R.T. 0.03 min
 Lab File: VL034604.D
 Acq: 6 Feb 2020 18:11

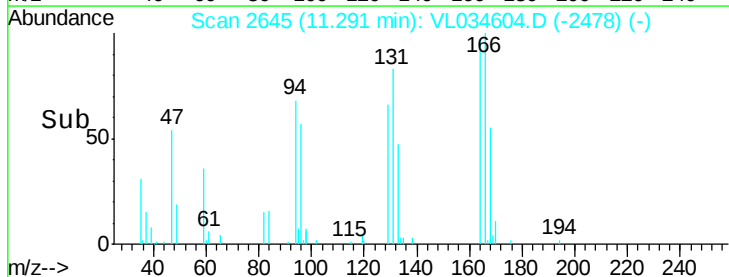
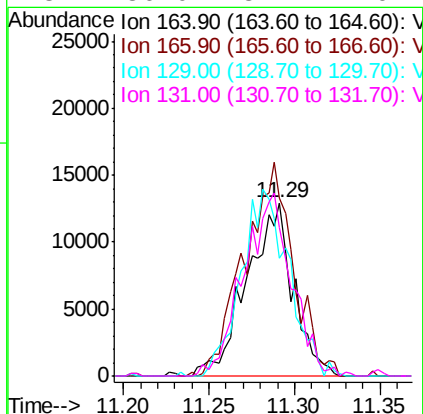
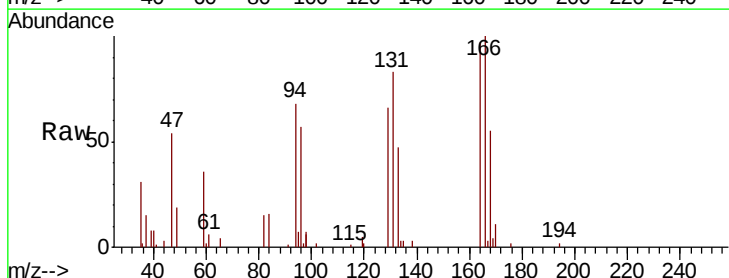
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

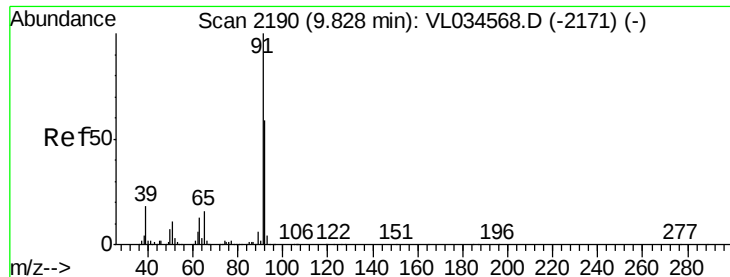
Tot Ion	57	Resp	42389
Ion Ratio	Lower	Upper	
57	100		
41	0.0	28.9	43.3#
56	0.0	25.5	38.3#



#52
 Tetrachloroethene
 Concen: 0.361 ppbv m
 RT: 11.29 min Scan# 2645
 Delta R.T. 0.04 min
 Lab File: VL034604.D
 Acq: 6 Feb 2020 18:11

Tgt Ion	164	Resp	24203
Ion Ratio	Lower	Upper	
164	100		
166	103.0	99.0	148.4
129	68.0	85.3	127.9#
131	86.0	84.2	126.2





#53

Toluene

Concen: 2.035 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

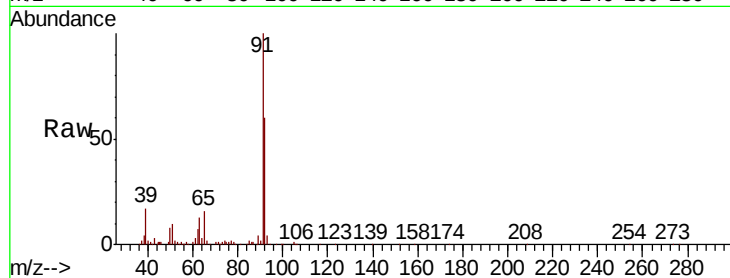
IA-1

Tot Ion: 91 Resp: 373158

Ion Ratio Lower Upper

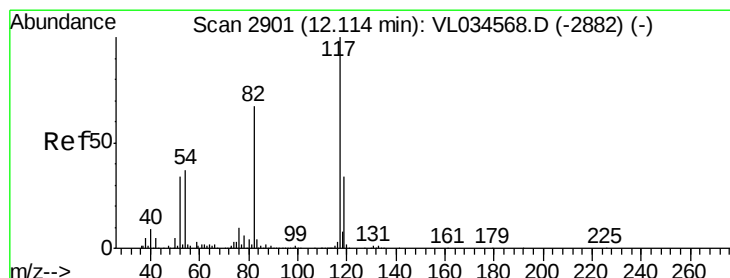
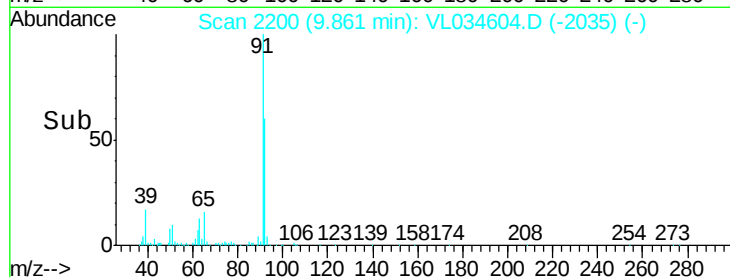
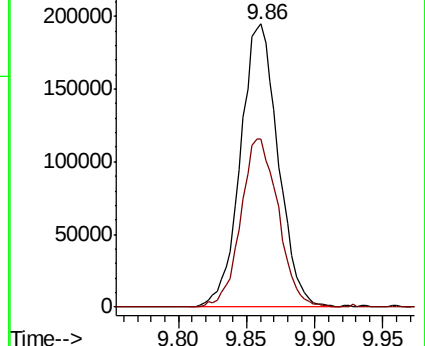
91 100

92 59.3 48.2 72.2



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: 12.15 min Scan# 2912

Delta R.T. 0.04 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

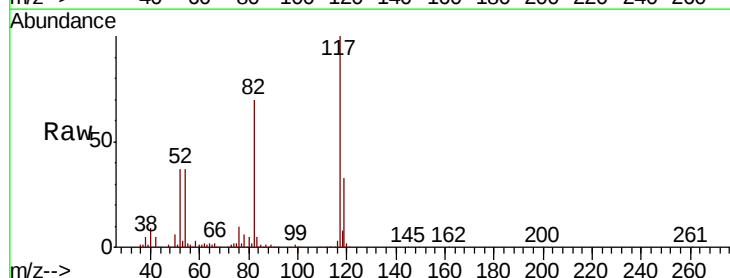
Tgt Ion: 117 Resp: 1824013

Ion Ratio Lower Upper

117 100

82 69.8 54.2 81.4

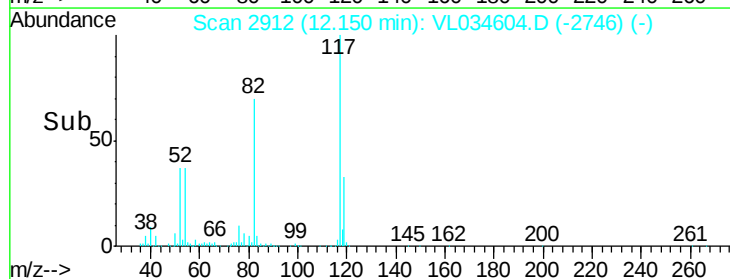
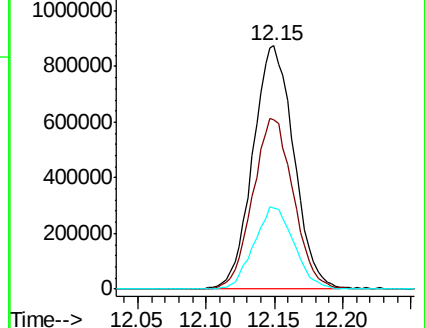
119 33.1 26.1 39.1

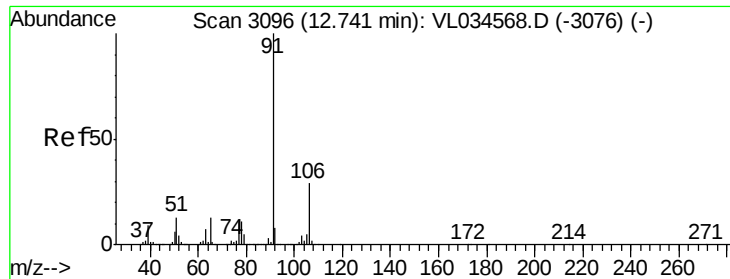


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.142 ppbv m

RT: 12.77 min Scan# 3104

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampled :

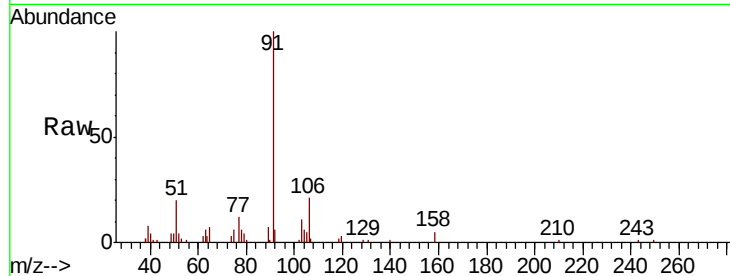
IA-1

Tot Ion: 91 Resp: 34674

Ion Ratio Lower Upper

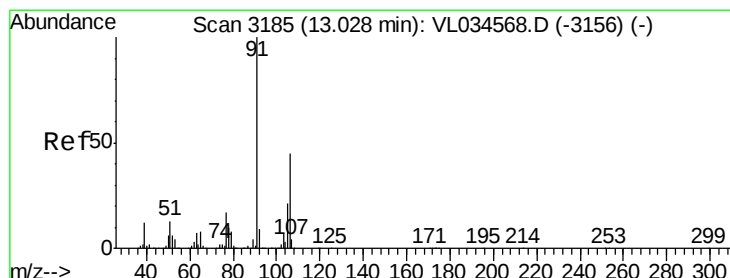
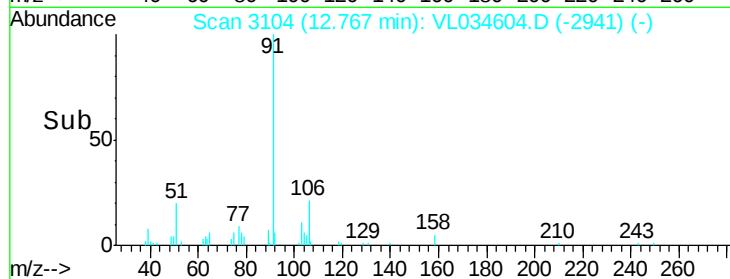
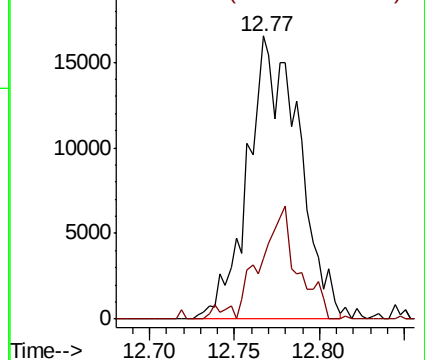
91 100

106 21.4 23.3 34.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.445 ppbv m

RT: 13.04 min Scan# 3188

Delta R.T. 0.01 min

Lab File: VL034604.D

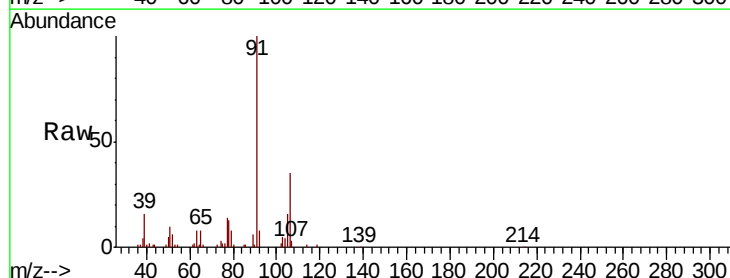
Acq: 6 Feb 2020 18:11

Tgt Ion: 91 Resp: 96042

Ion Ratio Lower Upper

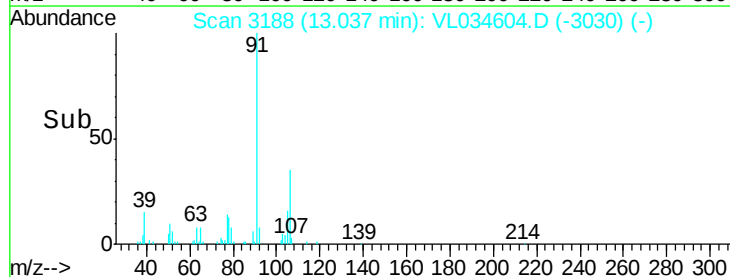
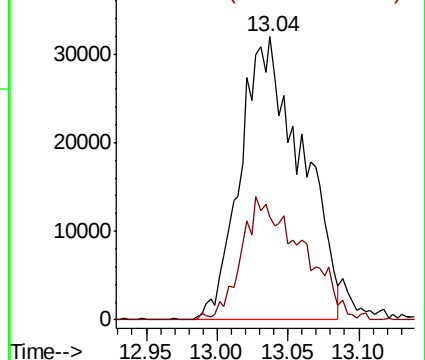
91 100

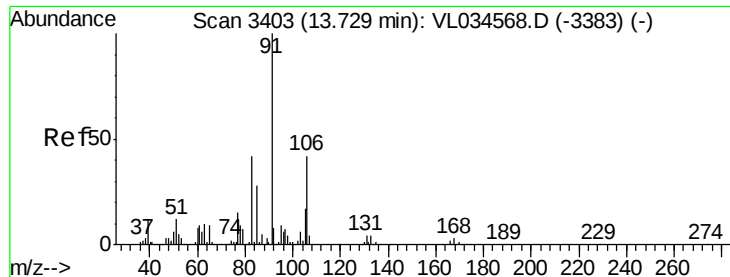
106 0.0 35.3 52.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 0.146 ppbv m

RT: 13.76 min Scan# 3413

Delta R.T. 0.03 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

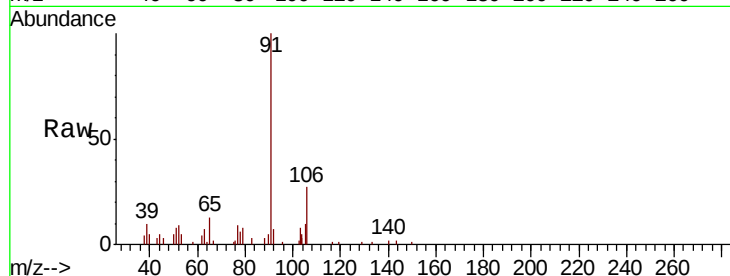
IA-1

Tot Ion: 91 Resp: 31628

Ion Ratio Lower Upper

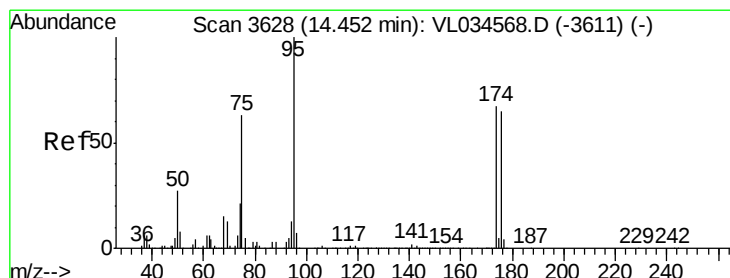
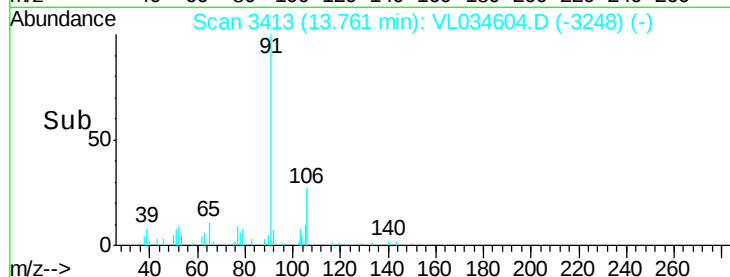
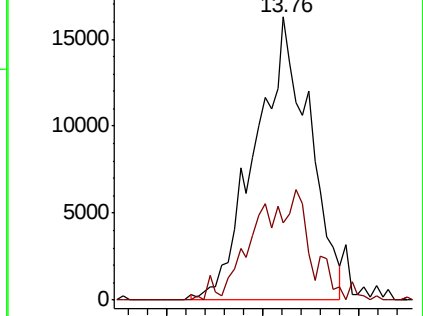
91 100

106 41.3 21.6 65.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.318 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. 0.04 min

Lab File: VL034604.D

Acq: 6 Feb 2020 18:11

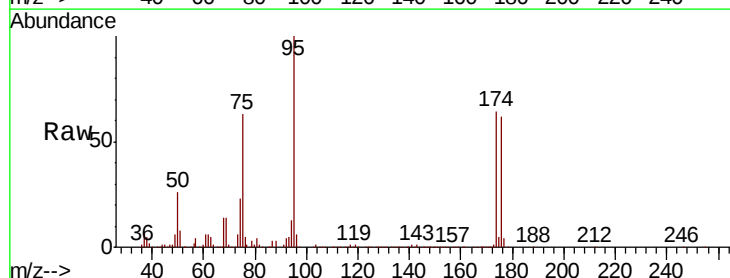
Tgt Ion: 95 Resp: 1590637

Ion Ratio Lower Upper

95 100

174 64.2 52.3 78.5

175 4.5 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

