

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020620\
 Data File : VL034609.D
 Acq On : 6 Feb 2020 21:36
 Operator : SY/AP
 Sample : L1435-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Quant Time: Feb 07 08:26:56 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	895422	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.22	114	1861120	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	1810100	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1586993	10.37	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

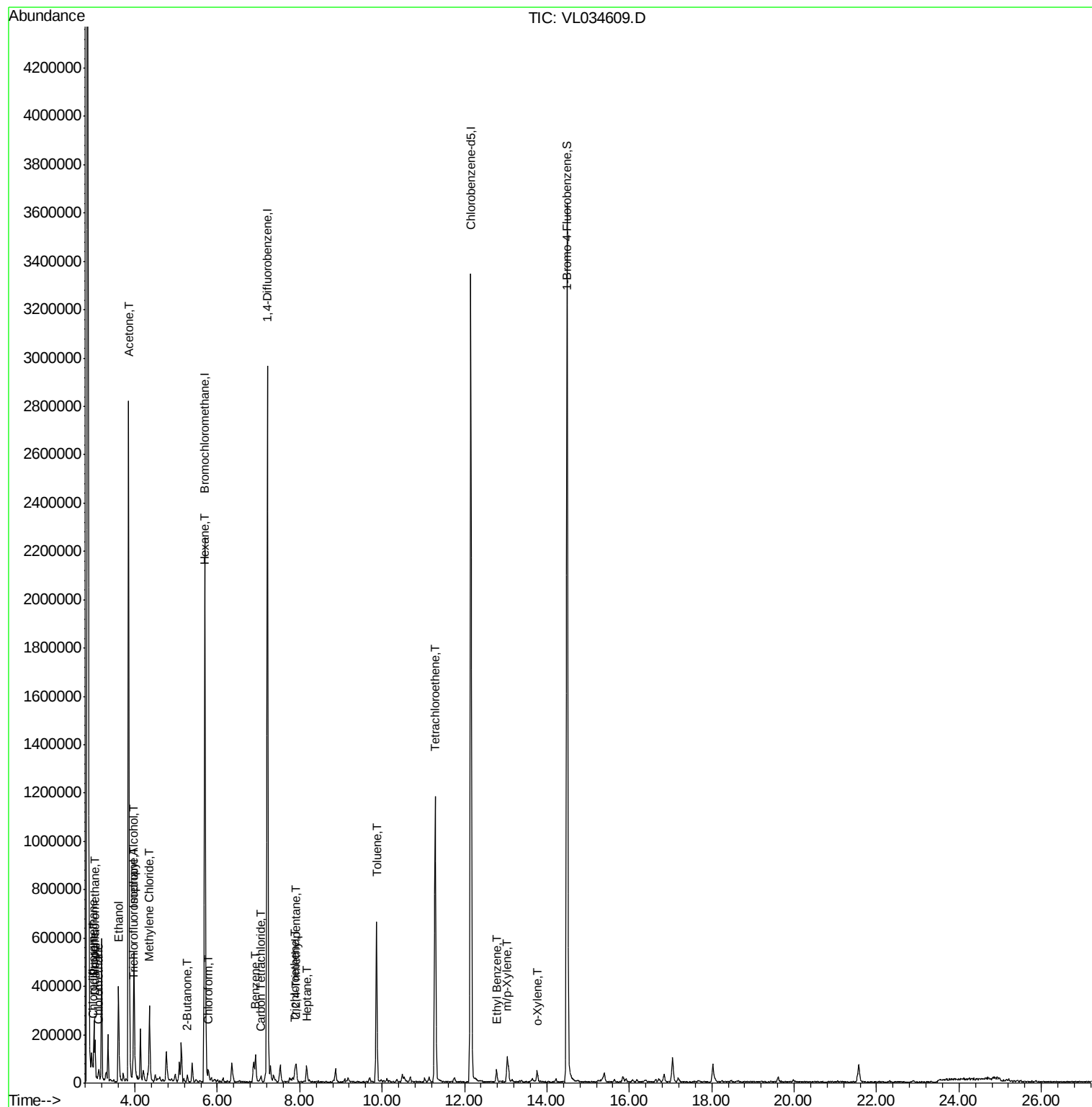
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	95628	0.485	ppbv	# 84
3) Chlorodifluoromethane	2.97	51	34563m	0.319	ppbv	
4) Chloromethane	3.12	50	27631m	0.417	ppbv	
9) Propene	3.00	41	46037m	1.093	ppbv	
10) Heptane	8.16	43	18175m	0.171	ppbv	
11) Trichlorofluoromethane	3.95	101	45597	0.255	ppbv	84
13) Ethanol	3.60	45	353396	31.318	ppbv	99
15) Acetone	3.84	43	2832219	21.521	ppbv	97
19) Isopropyl Alcohol	3.97	45	498091	6.486	ppbv	# 94
20) Methylene Chloride	4.35	84	100622	2.008	ppbv	95
26) Hexane	5.71	57	92381m	1.035	ppbv	
29) Chloroform	5.78	83	25768m	0.163	ppbv	
34) 2-Butanone	5.27	43	27769m	0.205	ppbv	
35) Carbon Tetrachloride	7.06	117	11686m	0.066	ppbv	
36) Benzene	6.92	78	71495m	0.432	ppbv	
38) Trichloroethene	7.88	130	11982m	0.172	ppbv	
44) 2,2,4-Trimethylpentane	7.91	57	45023m	0.150	ppbv	
52) Tetrachloroethene	11.29	164	252393	3.796	ppbv	97
53) Toluene	9.86	91	453746	2.496	ppbv	97
58) Ethyl Benzene	12.77	91	38153m	0.158	ppbv	
59) m/p-Xylene	13.04	91	99987m	0.467	ppbv	
60) o-Xylene	13.76	91	32489	0.151	ppbv	93

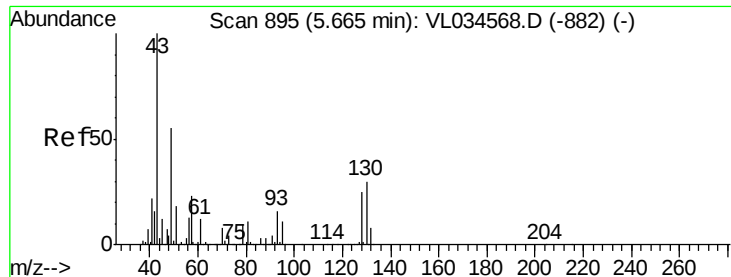
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 904

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampled :

IA-5

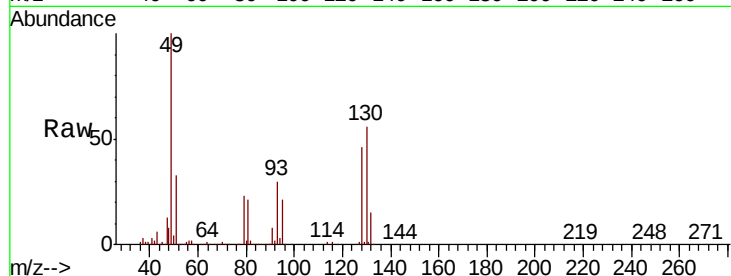
Tot Ion: 49 Resp: 895422

Ion Ratio Lower Upper

49 100

128 45.8 22.7 68.1

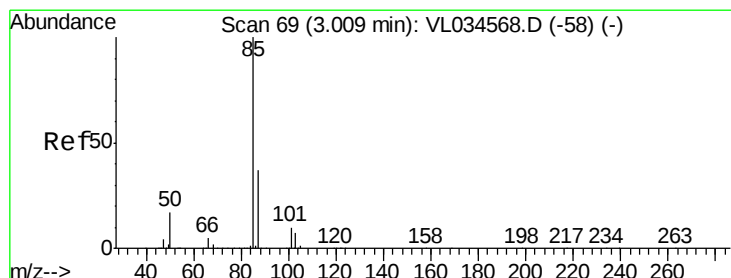
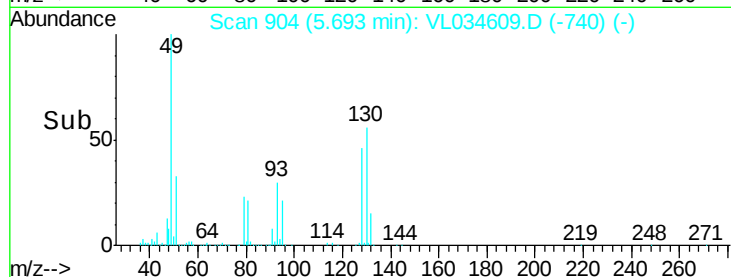
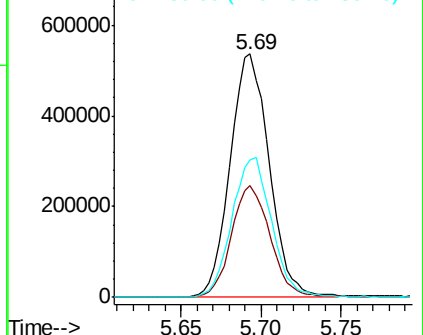
130 58.0 28.6 85.8



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: 0.485 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL034609.D

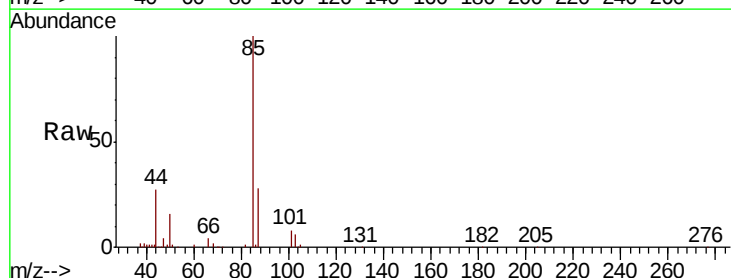
Acq: 6 Feb 2020 21:36

Tgt Ion: 85 Resp: 95628

Ion Ratio Lower Upper

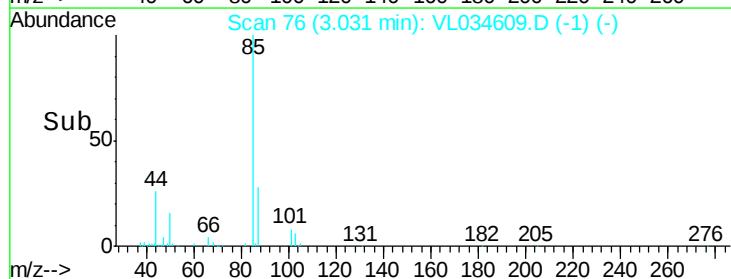
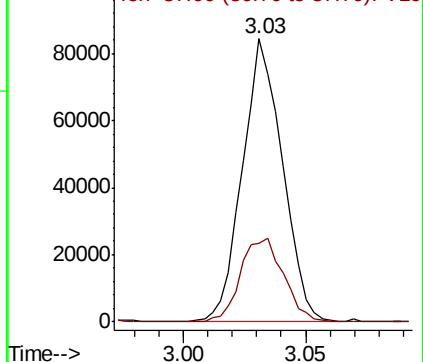
85 100

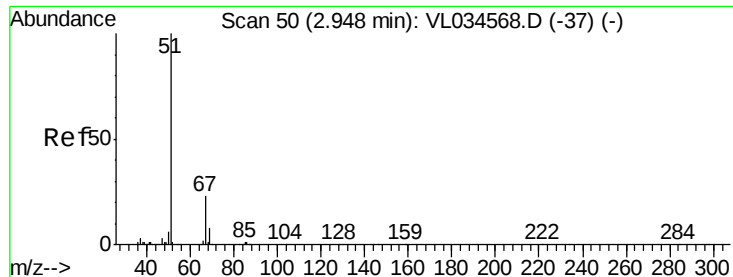
87 27.4 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.319 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampleId :

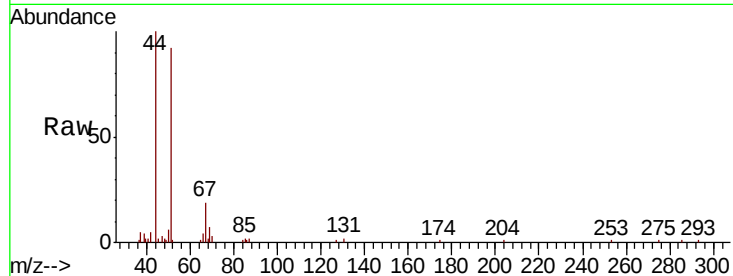
IA-5

Tot Ion: 51 Resp: 34563

Ion Ratio Lower Upper

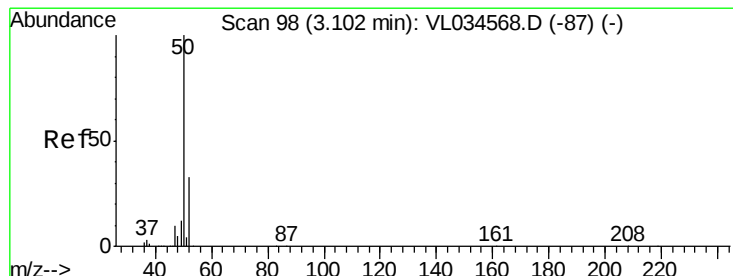
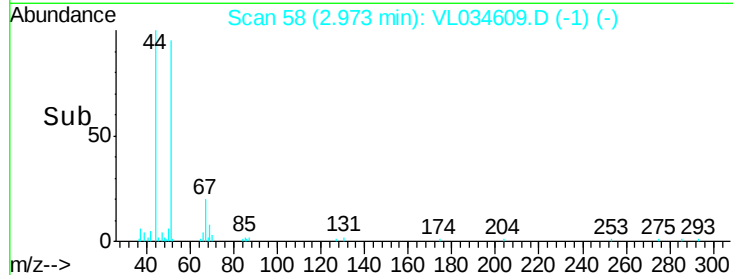
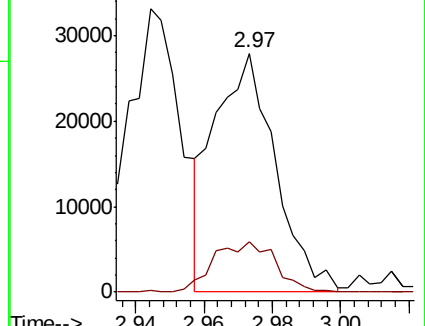
51 100

67 21.5 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.417 ppbv m

RT: 3.12 min Scan# 105

Delta R.T. 0.02 min

Lab File: VL034609.D

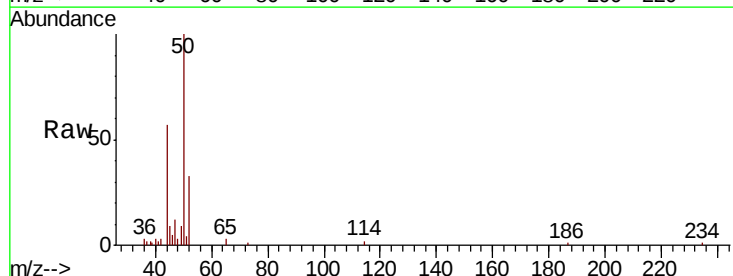
Acq: 6 Feb 2020 21:36

Tgt Ion: 50 Resp: 27631

Ion Ratio Lower Upper

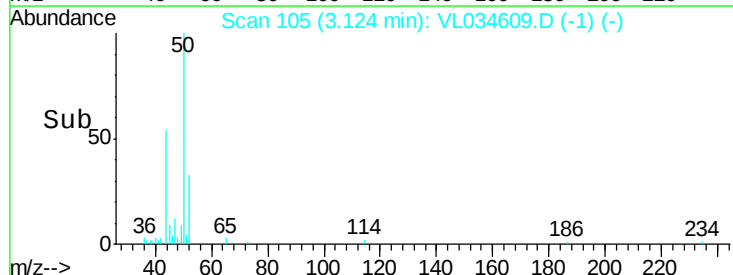
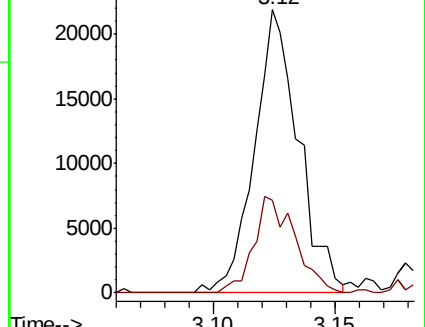
50 100

52 32.6 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.093 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampleId :

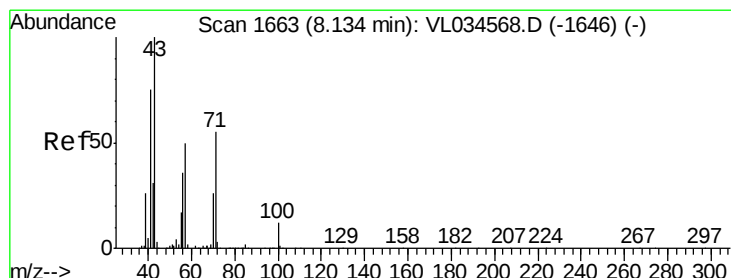
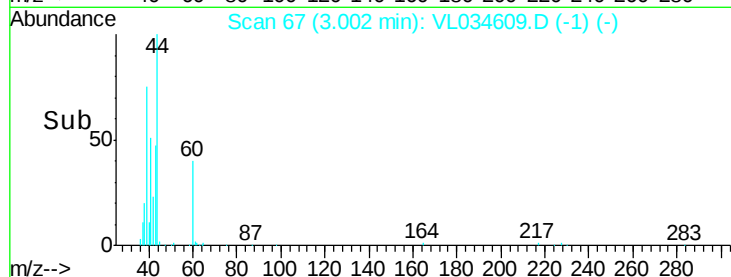
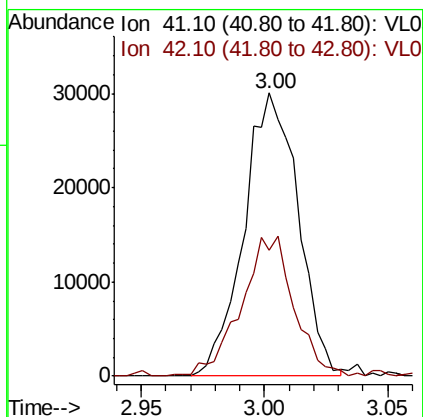
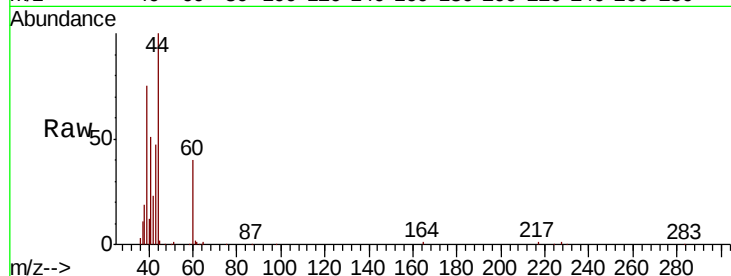
IA-5

Tot Ion: 41 Resp: 46037

Ion Ratio Lower Upper

41 100

42 210.6 57.0 85.4#



#10

Heptane

Concen: 0.171 ppbv m

RT: 8.16 min Scan# 1671

Delta R.T. 0.03 min

Lab File: VL034609.D

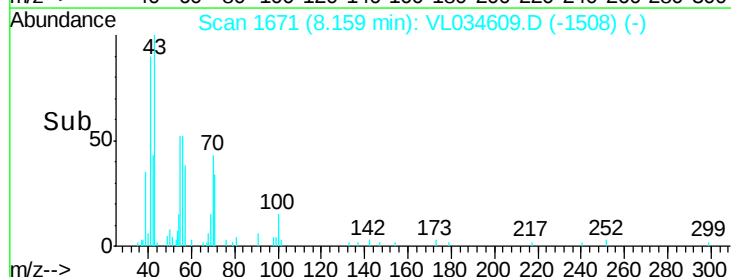
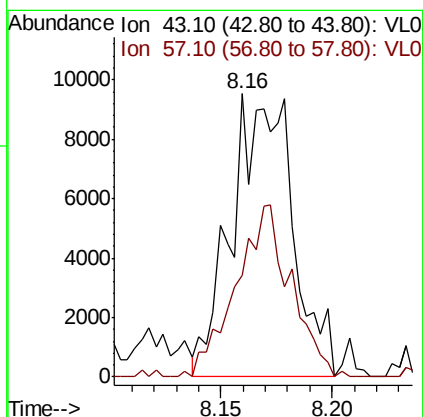
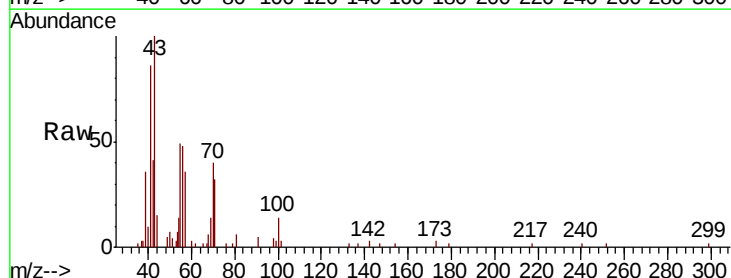
Acq: 6 Feb 2020 21:36

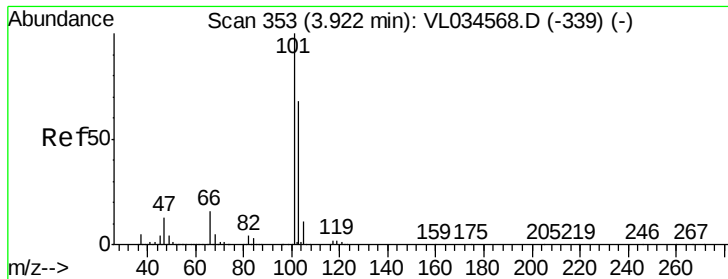
Tgt Ion: 43 Resp: 18175

Ion Ratio Lower Upper

43 100

57 0.0 41.2 61.8#

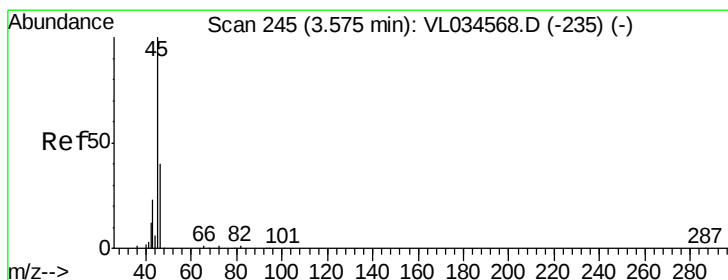
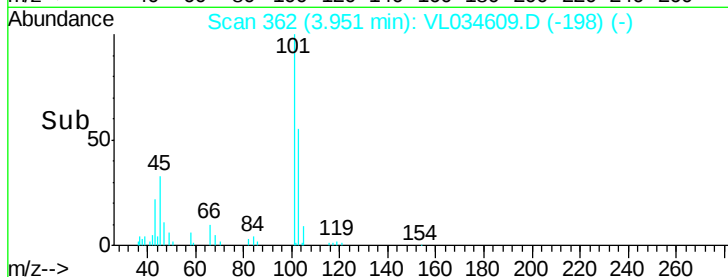
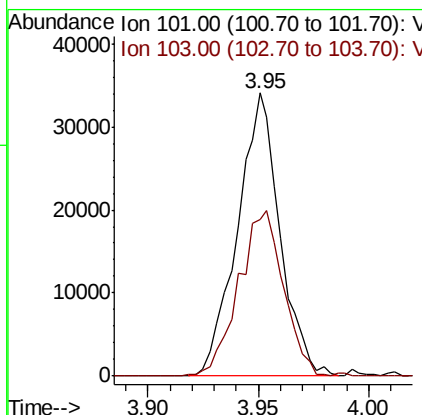
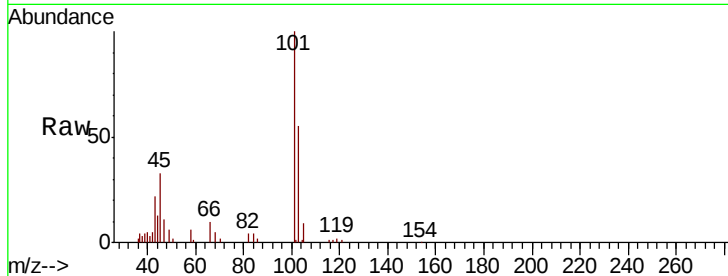




#11
 Trichlorofluoromethane
 Concen: 0.255 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.03 min
 Lab File: VL034609.D
 Acq: 6 Feb 2020 21:36

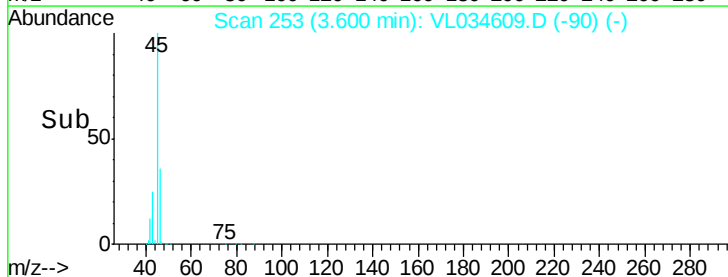
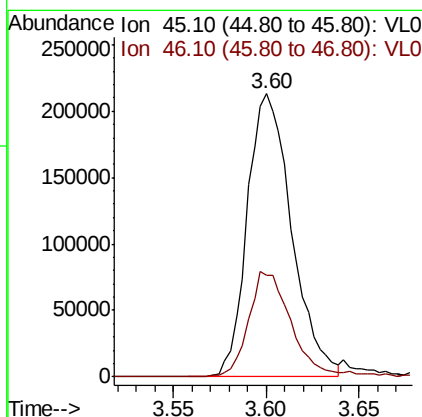
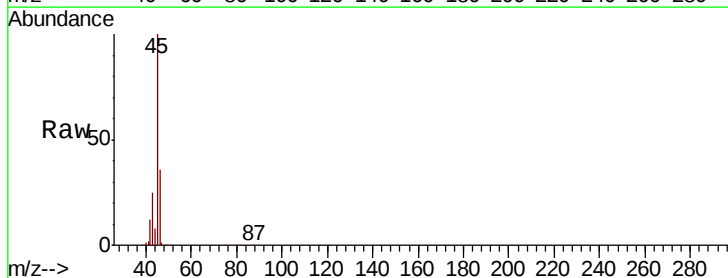
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

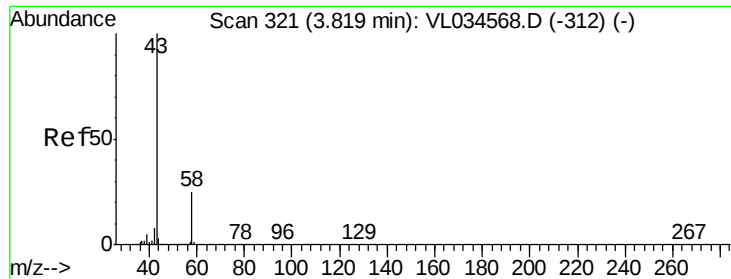
Tot Ion:101 Resp: 45597
 Ion Ratio Lower Upper
 101 100
 103 54.8 54.4 81.6



#13
 Ethanol
 Concen: 31.318 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. 0.03 min
 Lab File: VL034609.D
 Acq: 6 Feb 2020 21:36

Tgt Ion: 45 Resp: 353396
 Ion Ratio Lower Upper
 45 100
 46 36.7 14.8 59.2





#15

Acetone

Concen: 21.521 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampleId :

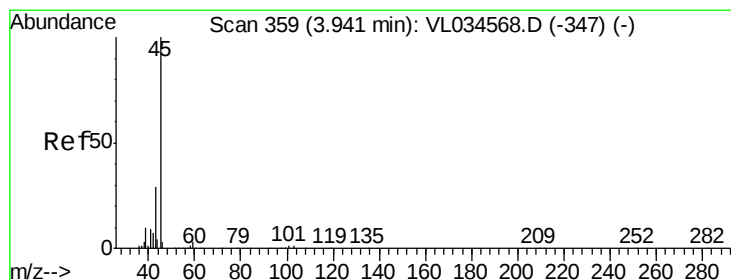
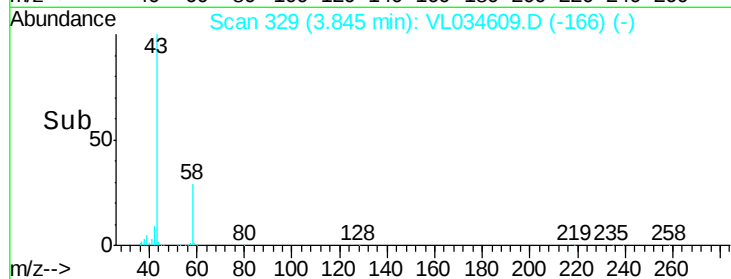
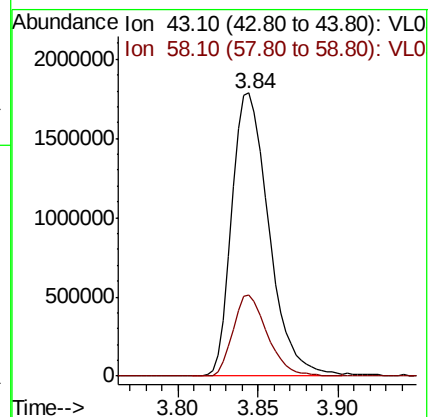
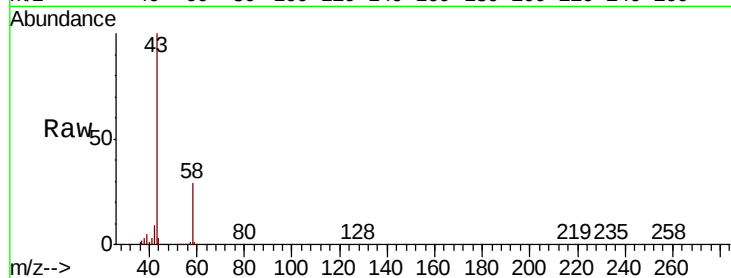
IA-5

Tot Ion: 43 Resp: 2832219

Ion Ratio Lower Upper

43 100

58 26.7 20.3 30.5



#19

Isopropyl Alcohol

Concen: 6.486 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.03 min

Lab File: VL034609.D

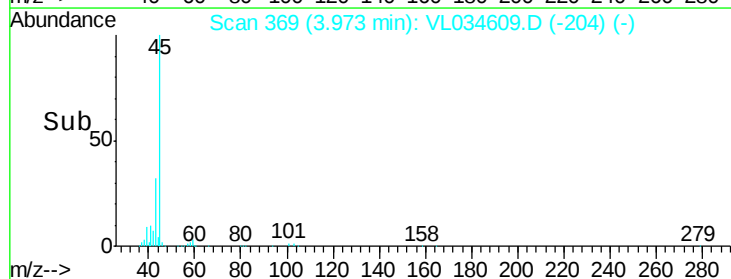
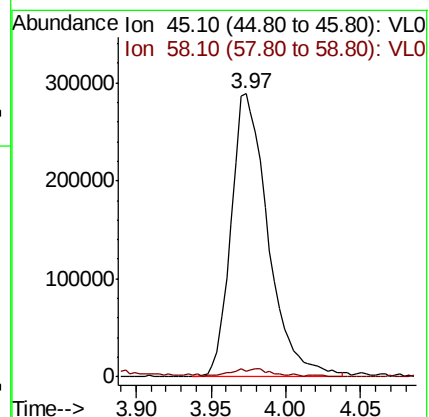
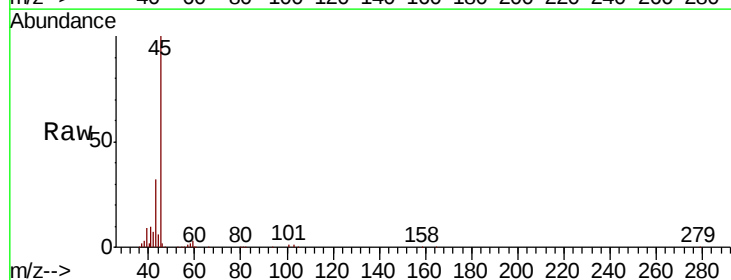
Acq: 6 Feb 2020 21:36

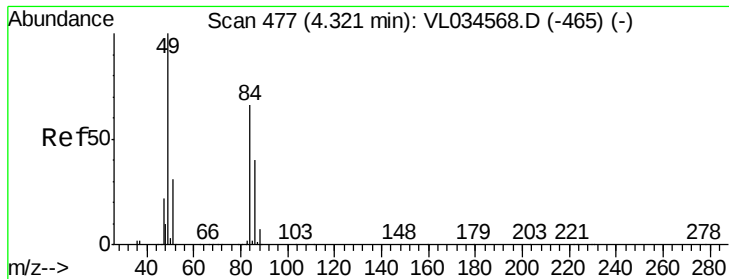
Tgt Ion: 45 Resp: 498091

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

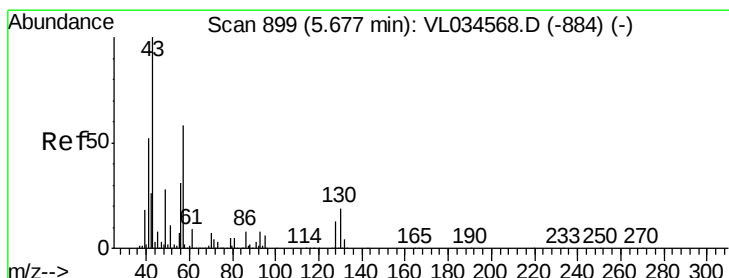
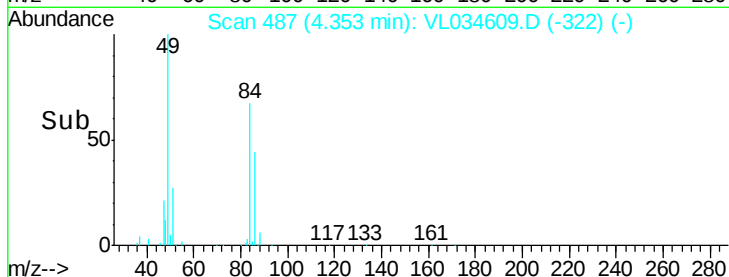
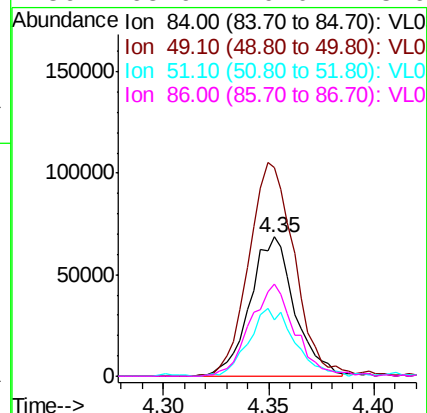
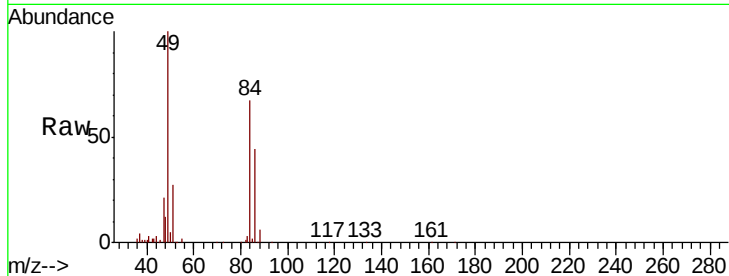




#20
Methvlene Chloride
Concen: 2.008 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.03 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

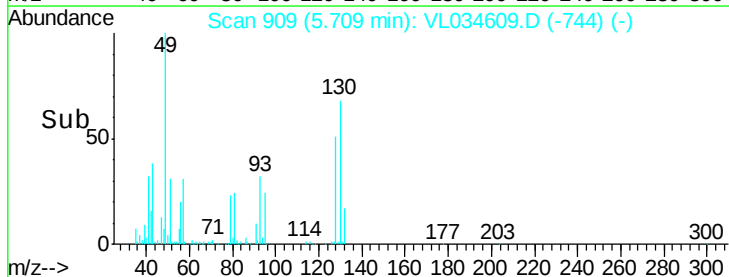
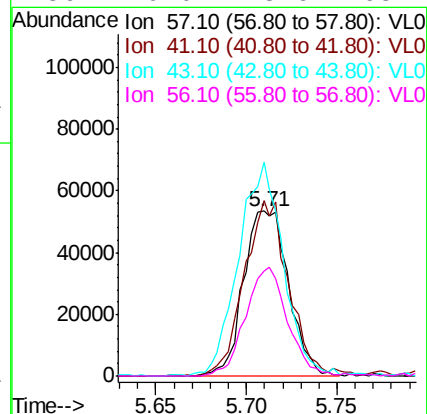
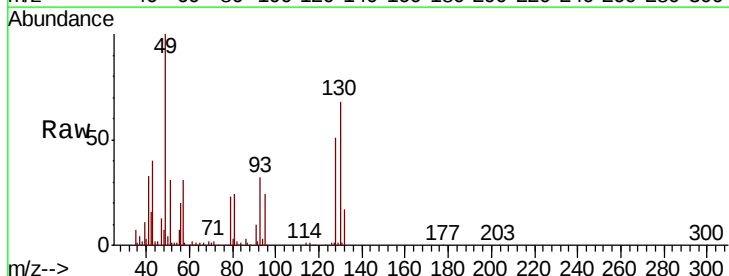
Instrument :
MSVOA_L
ClientSampleId :
IA-5

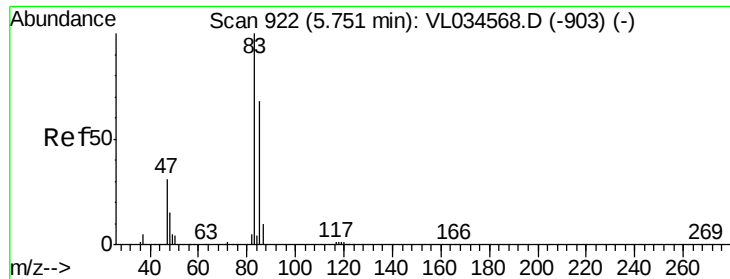
Tot Ion:	84	Resp:	100622
Ion	Ratio	Lower	Upper
84	100		
49	150.0	122.4	183.6
51	40.8	38.6	57.8
86	65.9	49.0	73.6



#26
Hexane
Concen: 1.035 ppbv m
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

Tgt Ion:	57	Resp:	92381
Ion	Ratio	Lower	Upper
57	100		
41	105.2	76.2	114.2
43	130.0	189.9	284.9#
56	0.0	43.6	65.4#





#29

Chloroform

Concen: 0.163 ppbv m

RT: 5.78 min Scan# 932

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampleId :

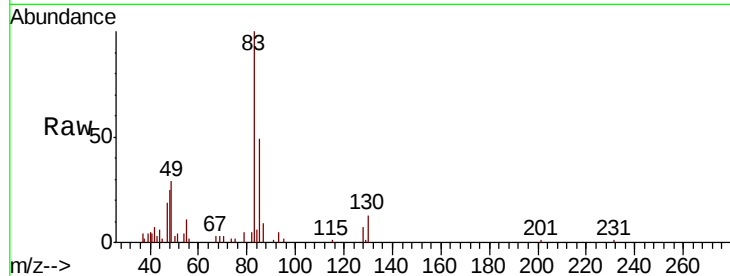
IA-5

Tot Ion: 83 Resp: 25768

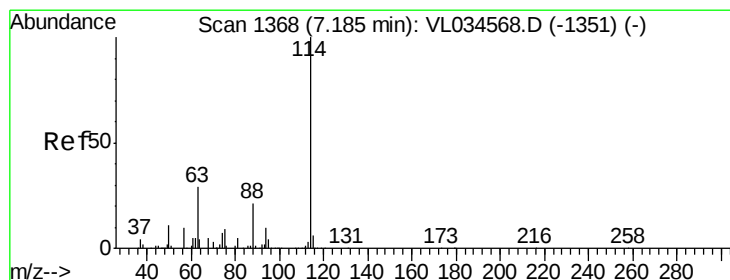
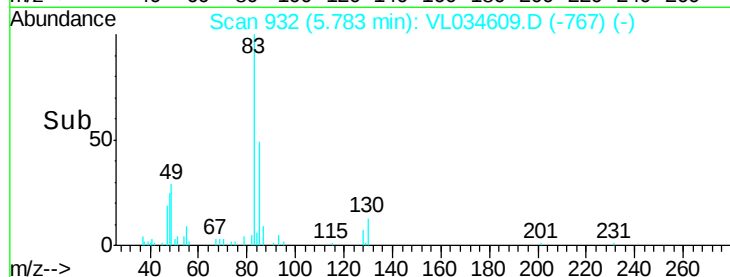
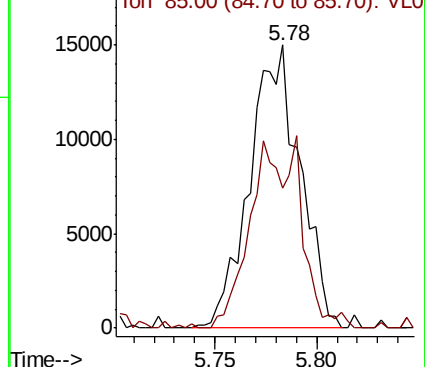
Ion Ratio Lower Upper

83 100

85 49.3 54.0 81.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1378

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

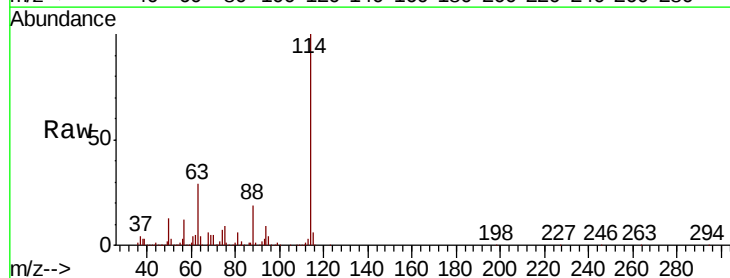
Tgt Ion: 114 Resp: 1861120

Ion Ratio Lower Upper

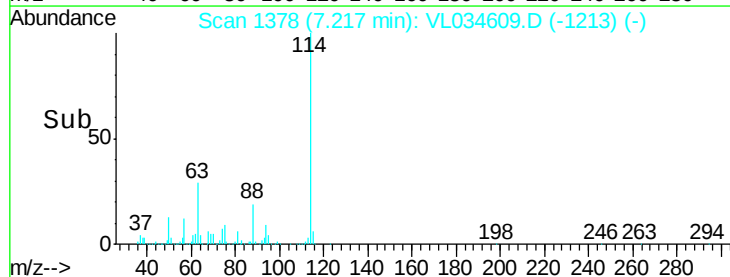
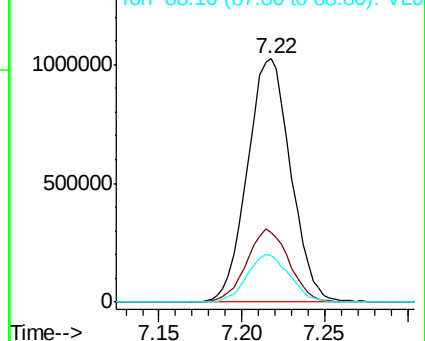
114 100

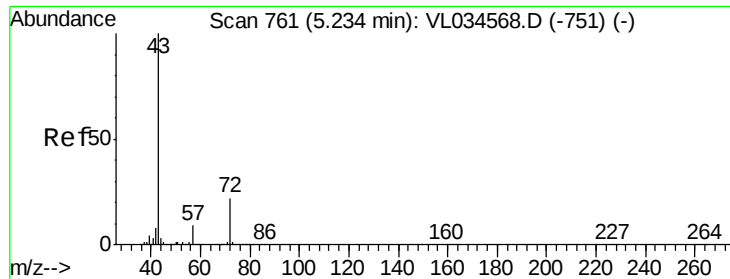
63 29.5 24.1 36.1

88 19.2 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): V

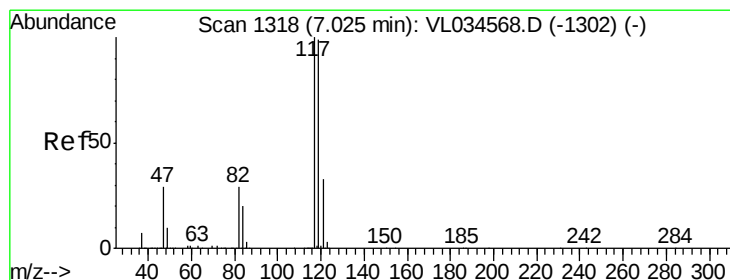
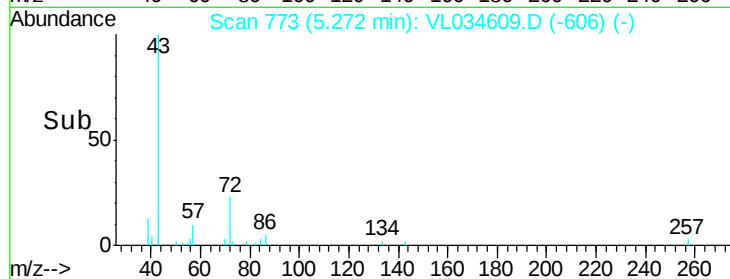
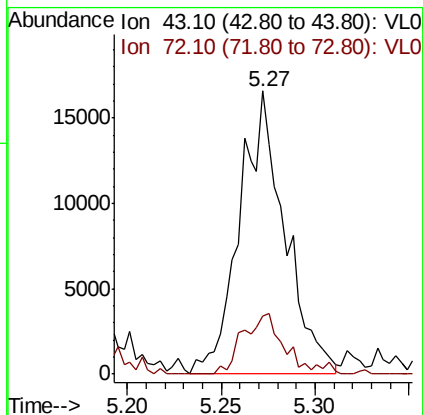
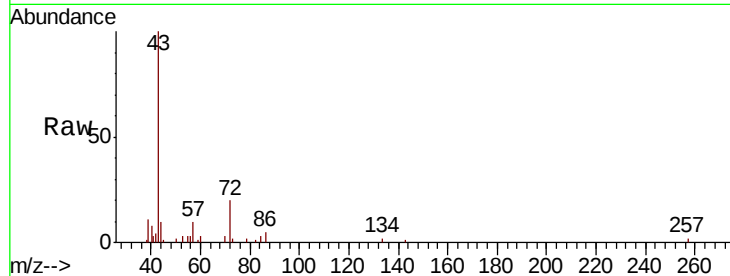




#34
2-Butanone
Concen: 0.205 ppbv m
RT: 5.27 min Scan# 773
Delta R.T. 0.04 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

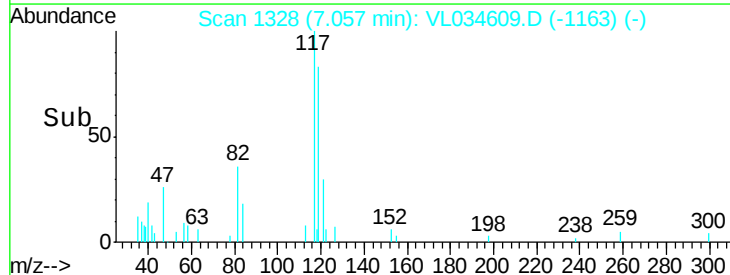
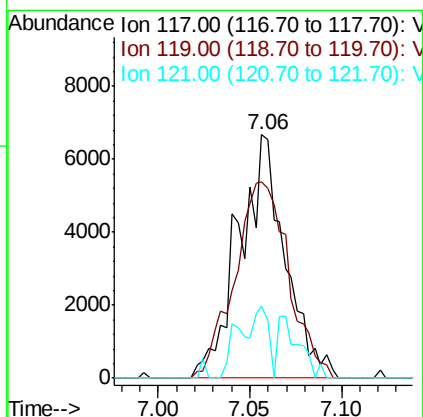
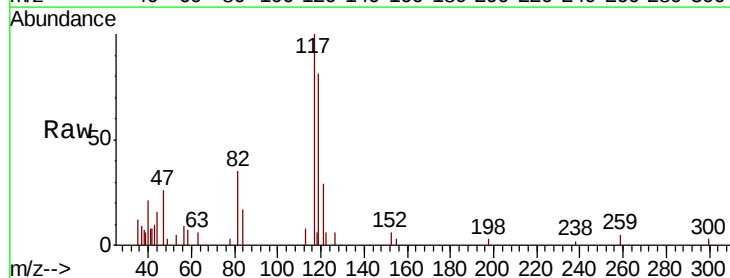
Instrument :
MSVOA_L
ClientSampleId :
IA-5

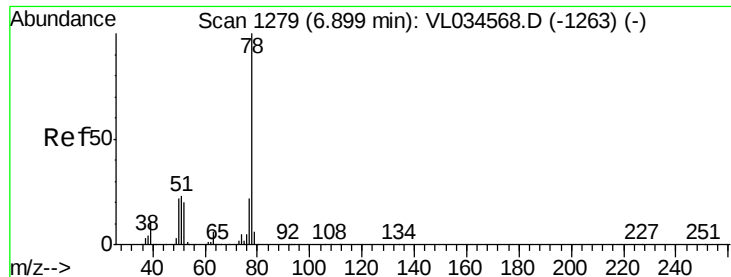
Tot Ion: 43 Resp: 27769
Ion Ratio Lower Upper
43 100
72 20.2 17.2 25.8



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.06 min Scan# 1328
Delta R.T. 0.03 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

Tgt Ion: 117 Resp: 11686
Ion Ratio Lower Upper
117 100
119 80.6 79.5 119.3
121 29.5 26.2 39.2





#36

Benzene

Concen: 0.432 ppbv m

RT: 6.92 min Scan# 1287

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

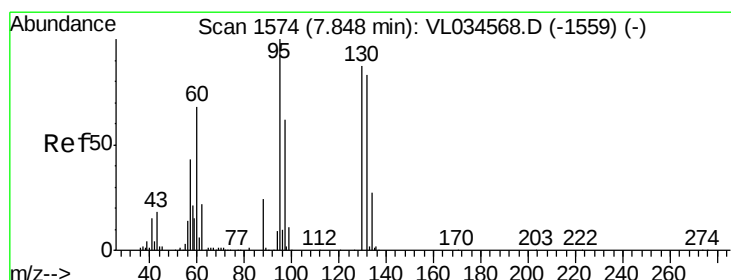
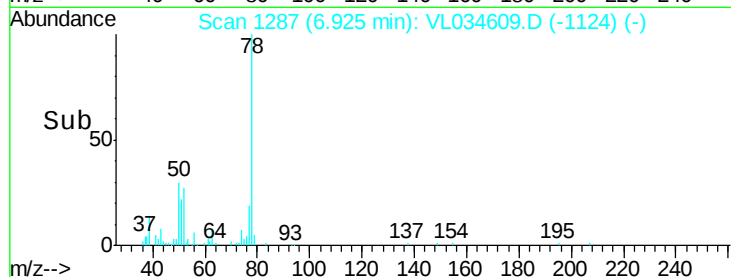
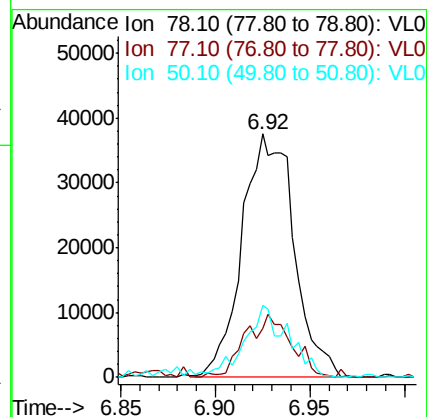
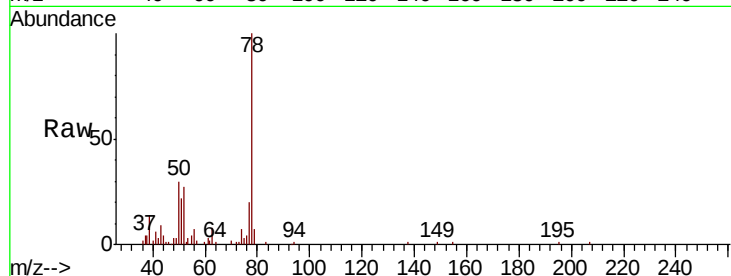
MSVOA_L

ClientSampleId :

IA-5

Tot Ion: 78 Resp: 71495

Ion	Ratio	Lower	Upper
78	100		
77	19.9	17.3	25.9
50	29.6	17.4	26.2#



#38

Trichloroethene

Concen: 0.172 ppbv m

RT: 7.88 min Scan# 1585

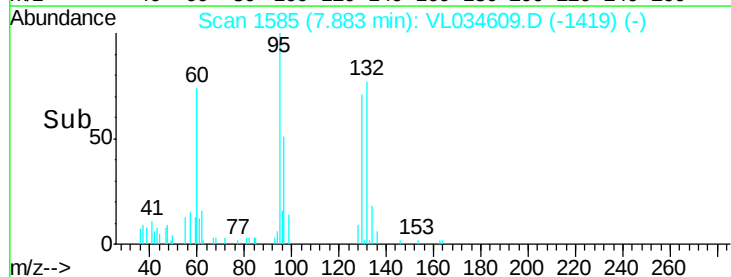
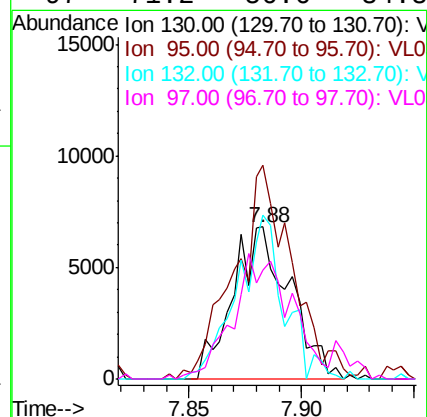
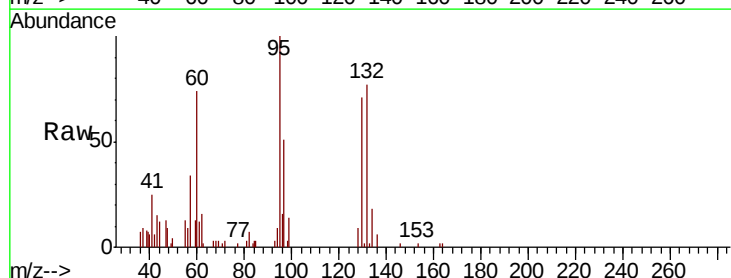
Delta R.T. 0.04 min

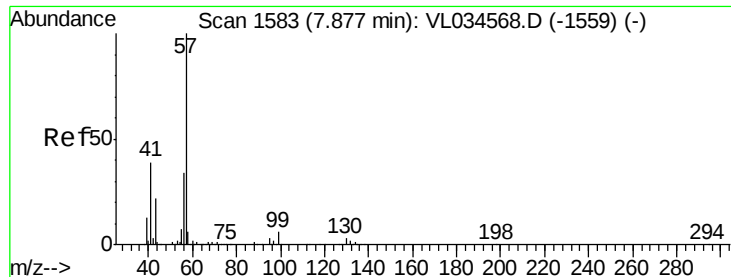
Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Tgt Ion: 130 Resp: 11982

Ion	Ratio	Lower	Upper
130	100		
95	140.4	91.6	137.4#
132	107.7	76.1	114.1
97	71.2	56.6	84.8

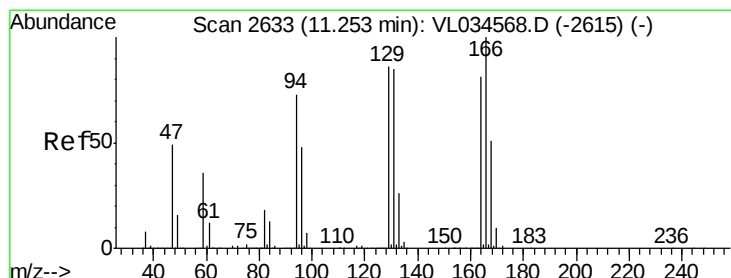
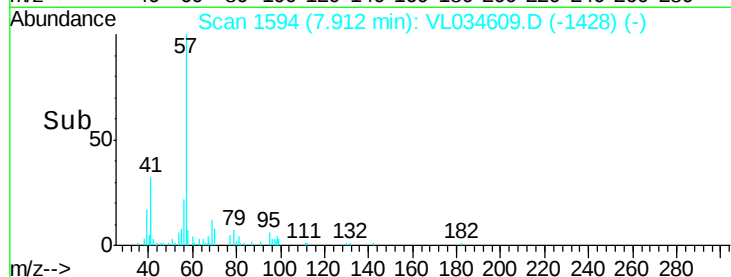
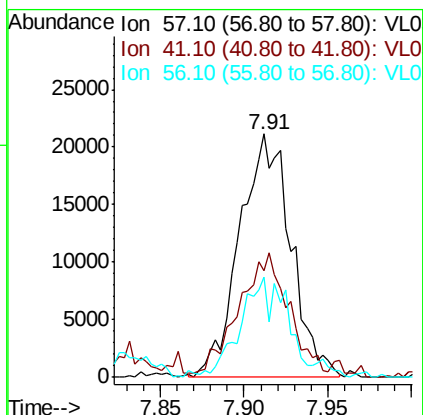
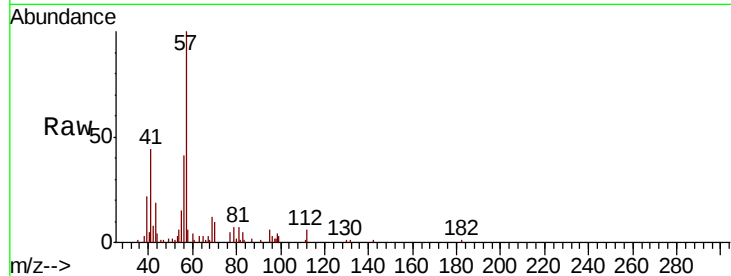




#44
2,2,4-Trimethylpentane
Concen: 0.150 ppbv m
RT: 7.91 min Scan# 1594
Delta R.T. 0.04 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

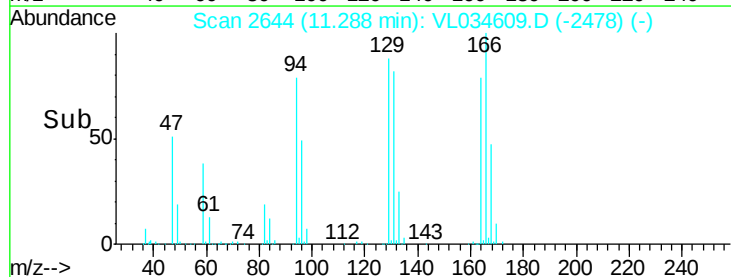
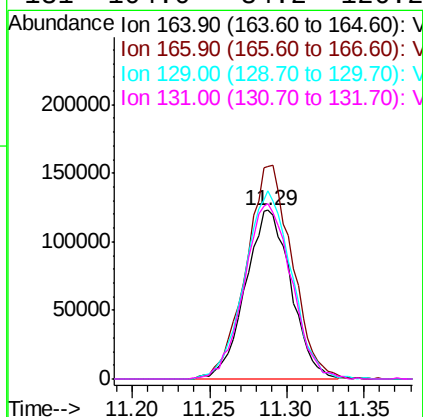
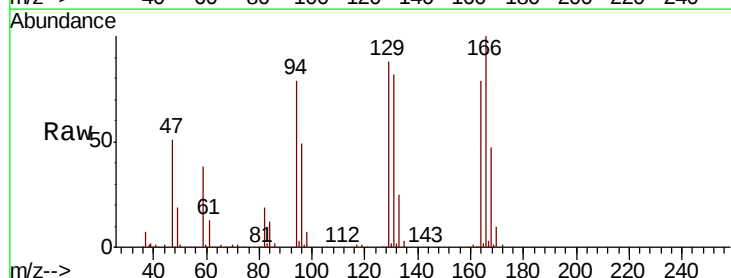
Instrument :
MSVOA_L
ClientSampled :
IA-5

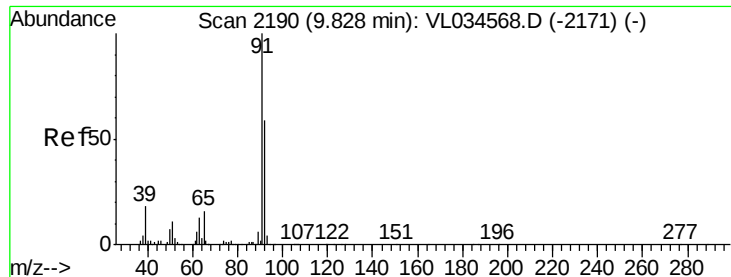
Tot Ion: 57 Resp: 45023
Ion Ratio Lower Upper
57 100
41 53.4 28.9 43.3#
56 40.2 25.5 38.3#



#52
Tetrachloroethene
Concen: 3.796 ppbv
RT: 11.29 min Scan# 2644
Delta R.T. 0.04 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

Tgt Ion:164 Resp: 252393
Ion Ratio Lower Upper
164 100
166 126.4 99.0 148.4
129 111.4 85.3 127.9
131 104.0 84.2 126.2





#53

Toluene

Concen: 2.496 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.04 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampleId :

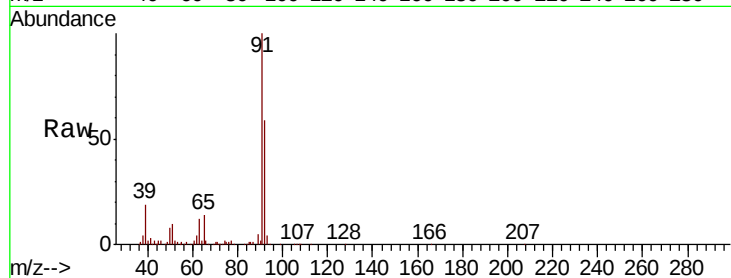
IA-5

Tot Ion: 91 Resp: 453746

Ion Ratio Lower Upper

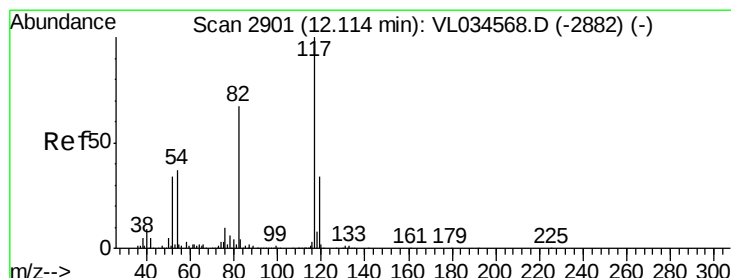
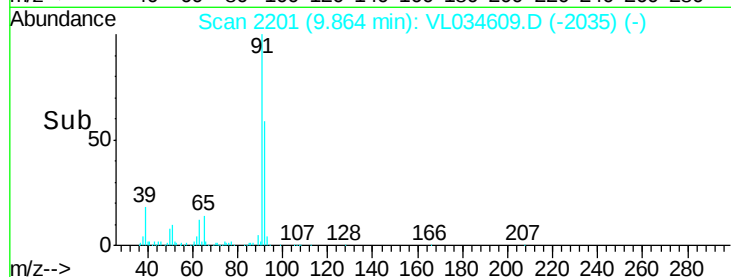
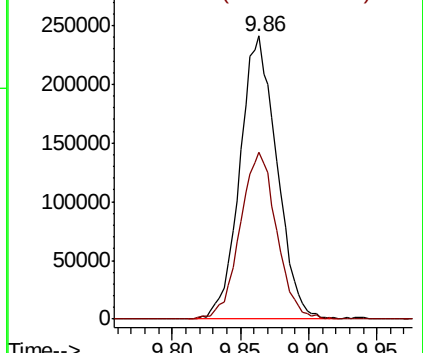
91 100

92 58.2 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# 2913

Delta R.T. 0.04 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

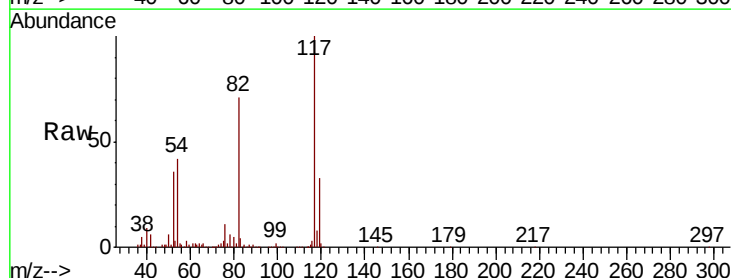
Tgt Ion: 117 Resp: 1810100

Ion Ratio Lower Upper

117 100

82 71.0 54.2 81.4

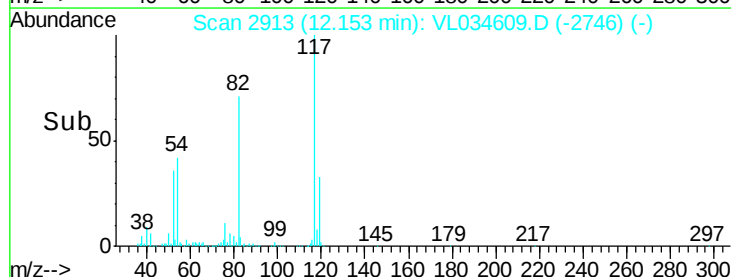
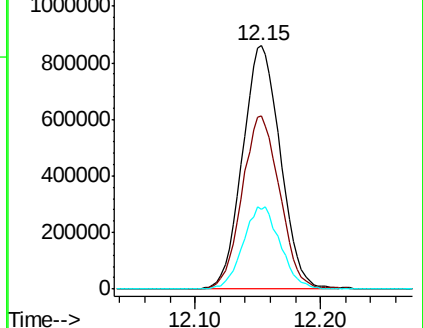
119 33.3 26.1 39.1

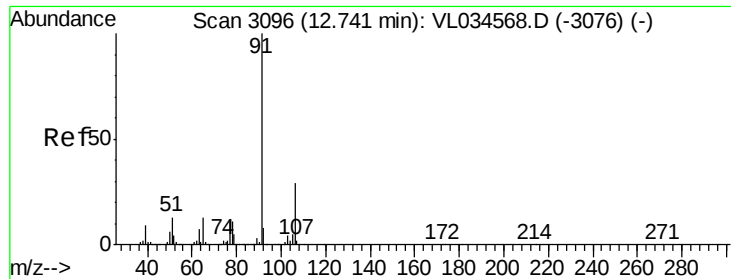


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.158 ppbv m

RT: 12.77 min Scan# 3106

Delta R.T. 0.03 min

Lab File: VL034609.D

Acq: 6 Feb 2020 21:36

Instrument :

MSVOA_L

ClientSampleId :

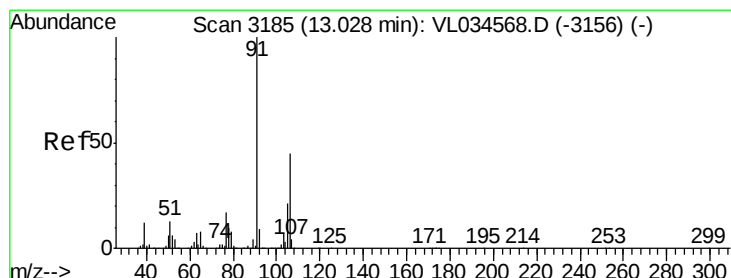
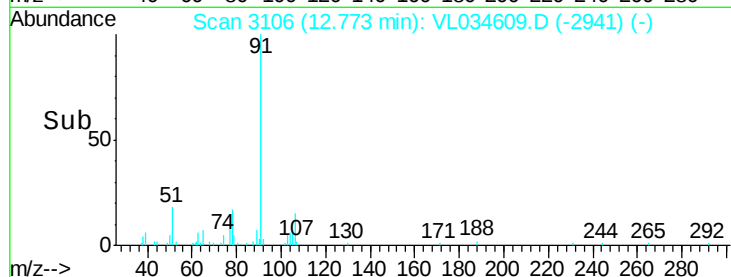
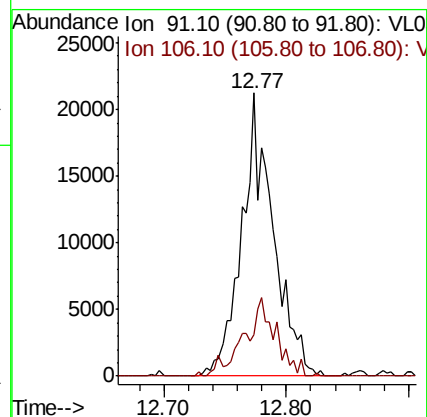
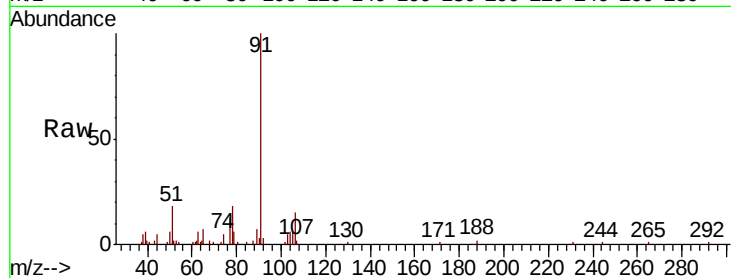
IA-5

Tot Ion: 91 Resp: 38153

Ion Ratio Lower Upper

91 100

106 14.9 23.3 34.9#



#59

m/p-Xylene

Concen: 0.467 ppbv m

RT: 13.04 min Scan# 3190

Delta R.T. 0.02 min

Lab File: VL034609.D

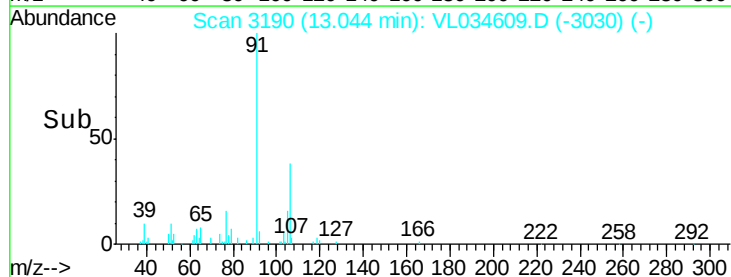
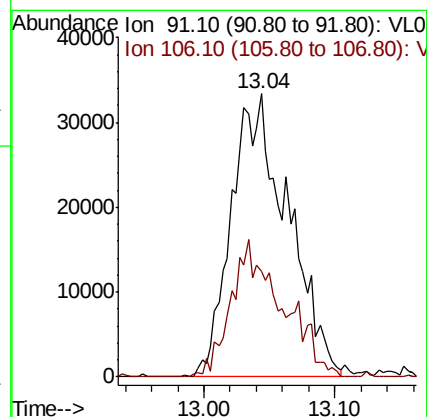
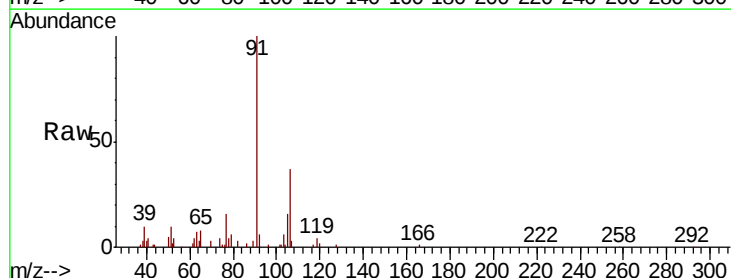
Acq: 6 Feb 2020 21:36

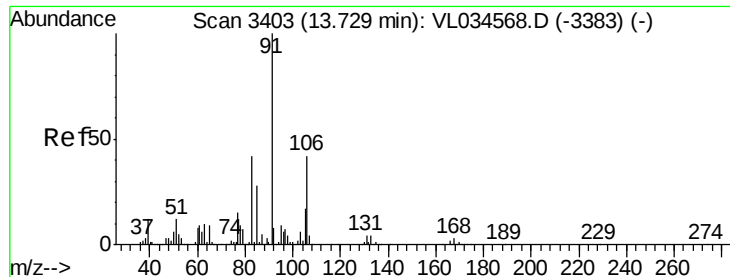
Tgt Ion: 91 Resp: 99987

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

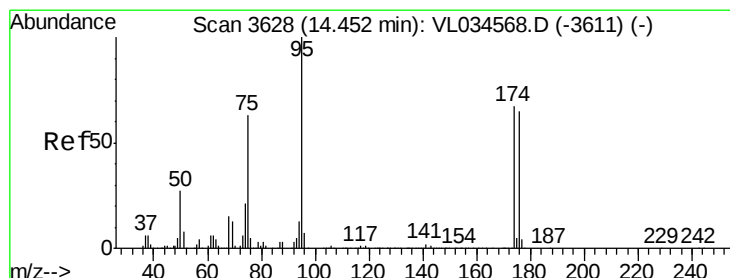
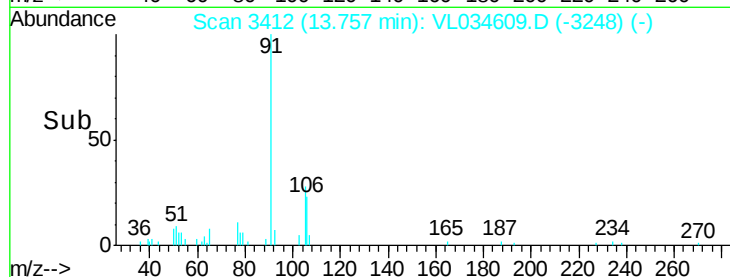
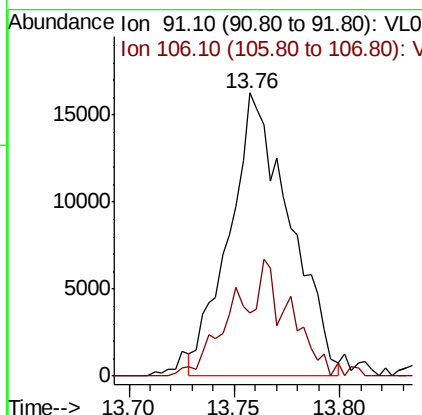
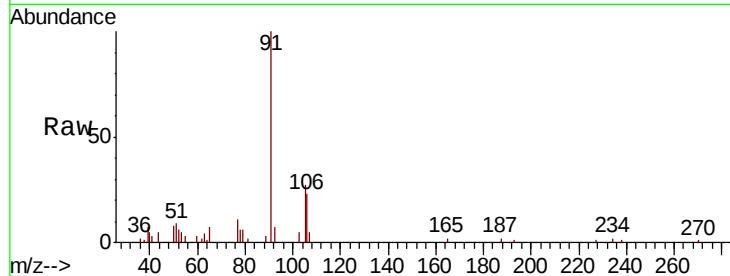




#60
o-Xylene
Concen: 0.151 ppbv
RT: 13.76 min Scan# 3412
Delta R.T. 0.03 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

Instrument :
MSVOA_L
ClientSampled :
IA-5

Tot Ion: 91 Resp: 32489
Ion Ratio Lower Upper
91 100
106 38.7 21.6 65.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.374 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. 0.04 min
Lab File: VL034609.D
Acq: 6 Feb 2020 21:36

Tgt Ion: 95 Resp: 1586993
Ion Ratio Lower Upper
95 100
174 64.7 52.3 78.5
175 4.5 3.8 5.6

