

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034710.D
 Acq On : 27 Feb 2020 15:55
 Operator : SY/AP
 Sample : L1662-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOMDUP

Manual Integrations
 APPROVED

MMDadoda
 2/28/2020 12:32:40 PM

Quant Time: Feb 28 01:39:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 2
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	958189	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.20	114	1956756	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.13	117	1934128	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1630658	10.28	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	99925	0.661	ppbv	95
3) Chlorodifluoromethane	2.96	51	55271m	0.535	ppbv	
4) Chloromethane	3.11	50	33293	0.575	ppbv #	89
9) Propene	3.00	41	57415m	1.328	ppbv	
11) Trichlorofluoromethane	3.94	101	38672m	0.292	ppbv	
13) Ethanol	3.59	45	1171271	85.775	ppbv	97
15) Acetone	3.84	43	1410489	12.918	ppbv	98
17) tert-Butyl alcohol	4.31	59	34065m	0.407	ppbv	
19) Isopropyl Alcohol	3.97	45	135061m	2.077	ppbv	
20) Methylene Chloride	4.34	84	91850	2.262	ppbv	92
26) Hexane	5.70	57	142366	1.598	ppbv #	44
34) 2-Butanone	5.26	43	30536	0.248	ppbv	97
35) Carbon Tetrachloride	7.04	117	10800m	0.082	ppbv	
36) Benzene	6.91	78	52602	0.311	ppbv	96
53) Toluene	9.85	91	644117	3.583	ppbv	97
58) Ethyl Benzene	12.76	91	30835m	0.132	ppbv	
59) m/p-Xylene	13.01	91	114406m	0.561	ppbv	
60) o-Xylene	13.75	91	29103	0.144	ppbv	97

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

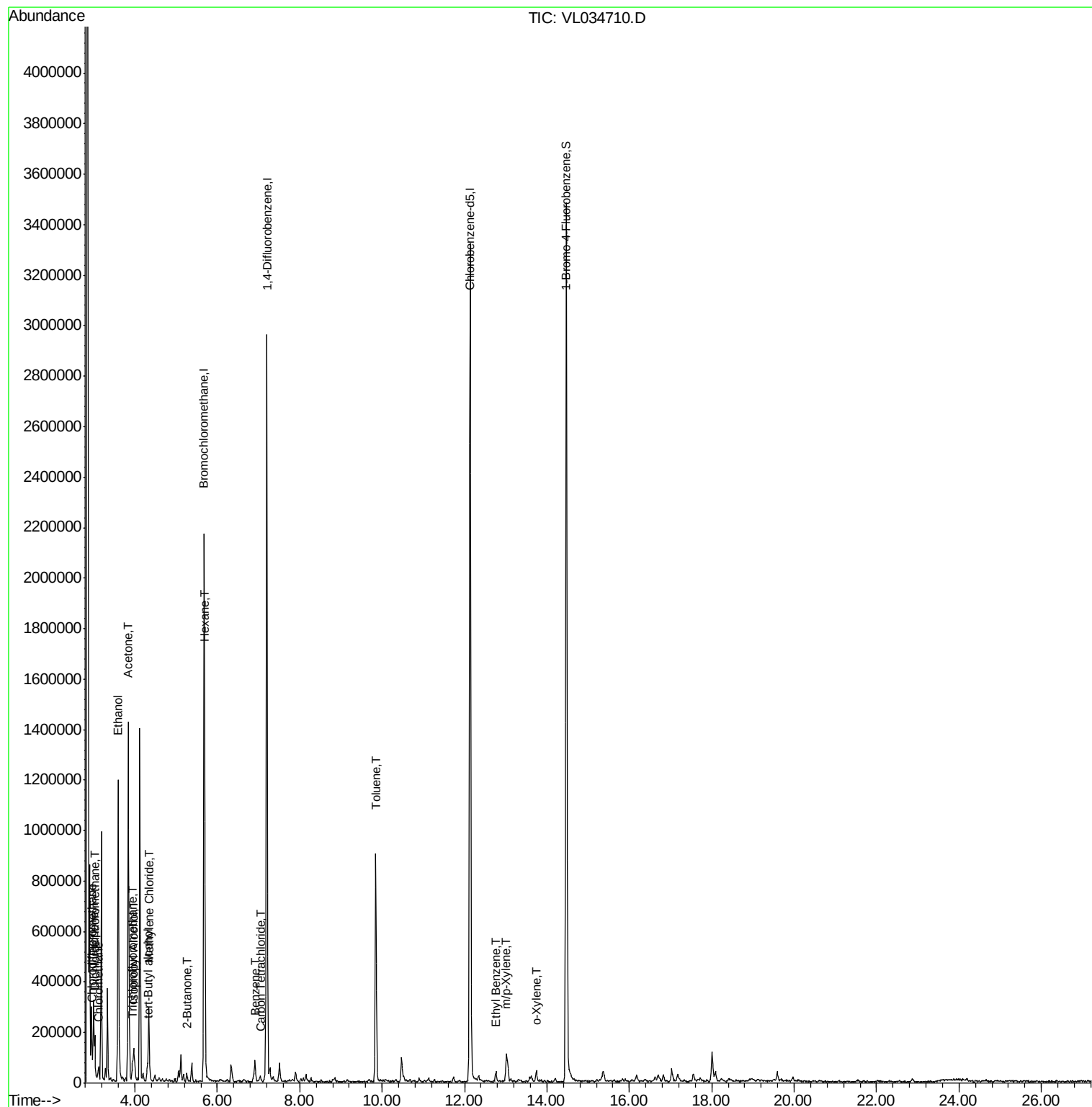
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022720\
Data File : VL034710.D
Acq On : 27 Feb 2020 15:55
Operator : SY/AP
Sample : L1662-02DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

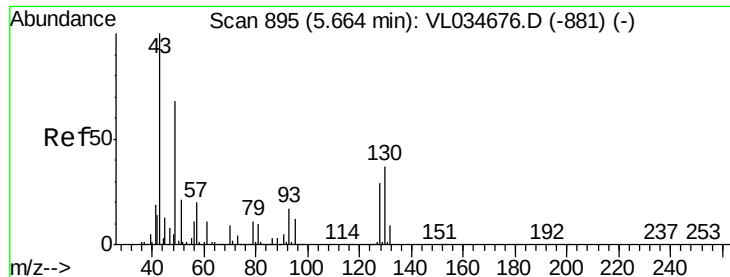
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOMDUP

Manual Integrations
APPROVED

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Quant Time: Feb 28 01:39:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

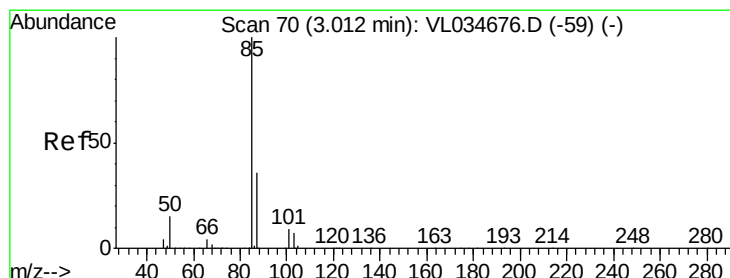
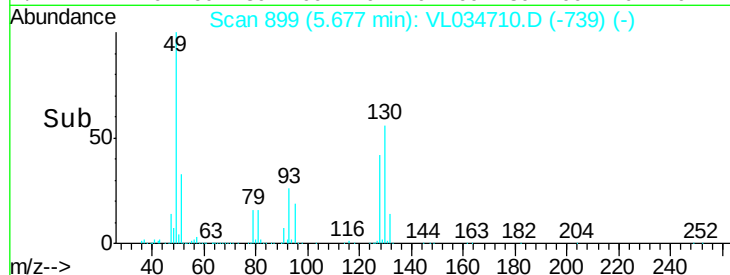
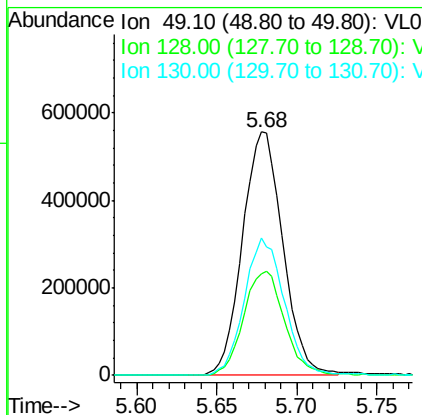
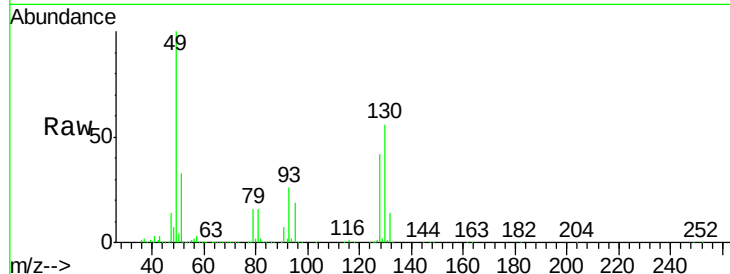
ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tot Ion:	49	Resp:	958189
Ion Ratio	Lower	Upper	
49	100		
128	43.7	21.6	65.0
130	56.2	27.7	83.1

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#2

Dichlorodifluoromethane

Concen: 0.661 ppbv

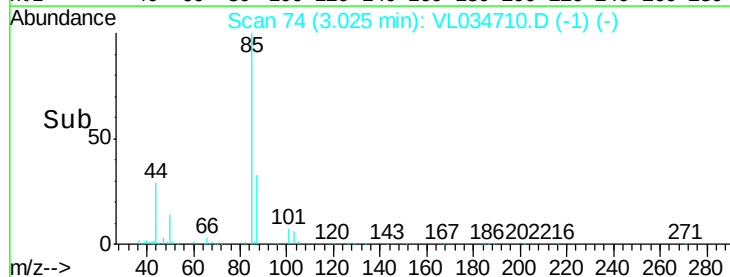
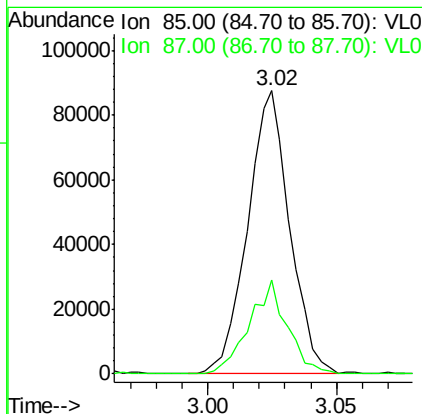
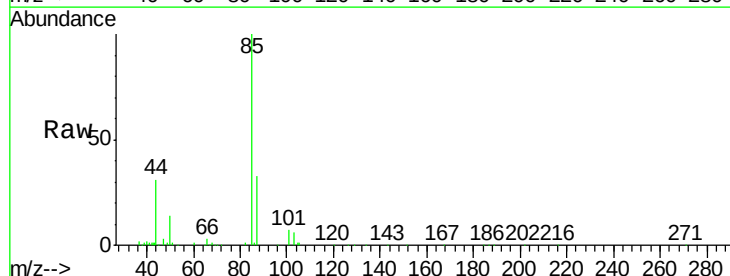
RT: 3.02 min Scan# 74

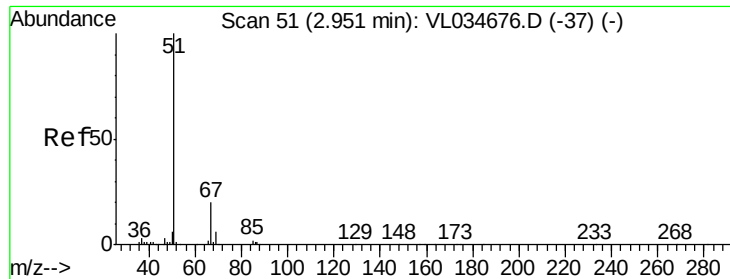
Delta R.T. 0.01 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Tgt Ion:	85	Resp:	99925
Ion Ratio	Lower	Upper	
85	100		
87	33.4	29.2	43.8





#3

Chlorodifluoromethane

Concen: 0.535 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.01 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tot Ion: 51 Resp: 55271

Ion Ratio Lower Upper

51 100

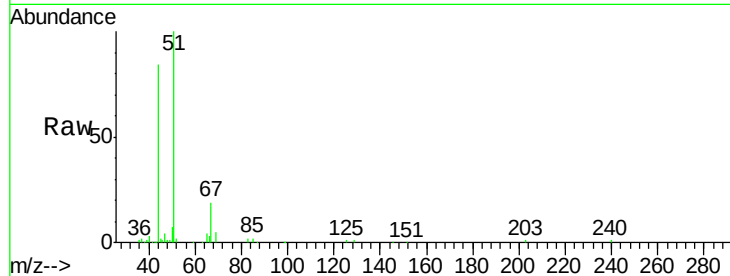
67 21.4 15.5 23.3

Manual Integrations

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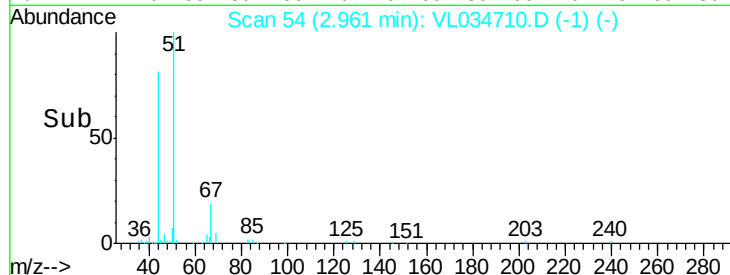
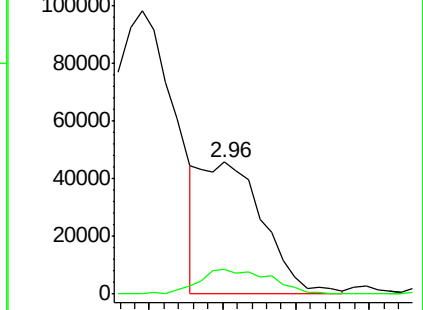
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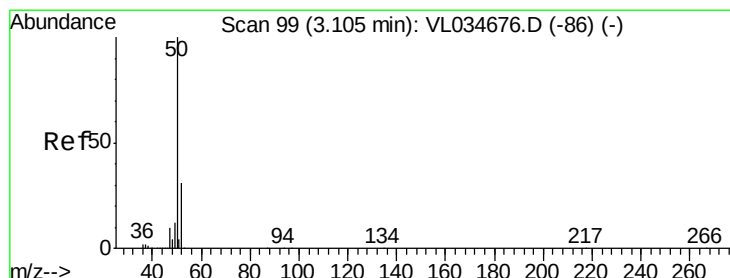


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.575 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034710.D

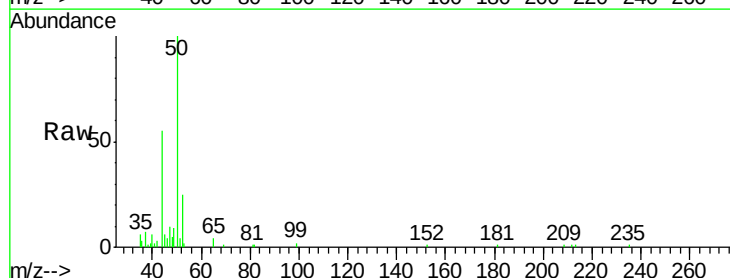
Acq: 27 Feb 2020 15:55

Tgt Ion: 50 Resp: 33293

Ion Ratio Lower Upper

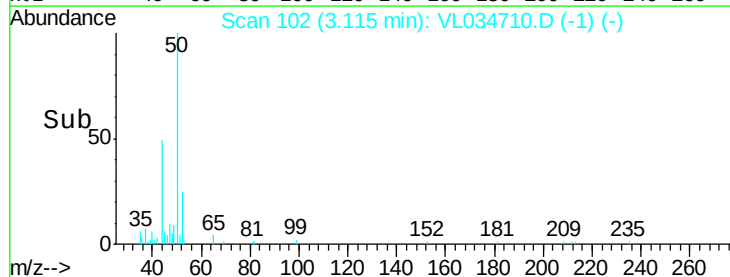
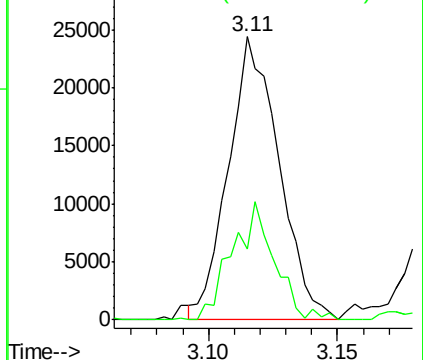
50 100

52 24.9 25.0 37.4#

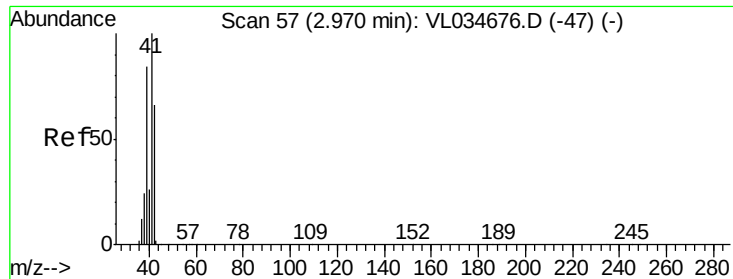


Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->



#9

Propene

Concen: 1.328 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.03 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tot Ion: 41 Resp: 57415

Ion Ratio Lower Upper

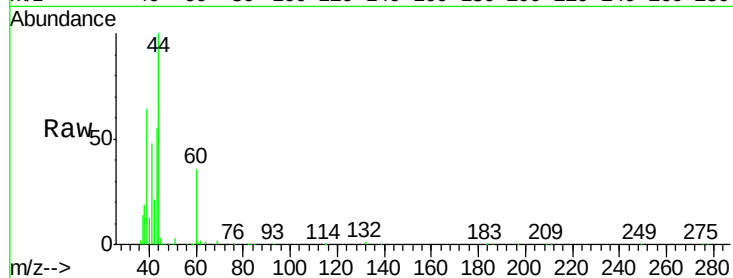
41 100

42 287.8 54.9 82.3#

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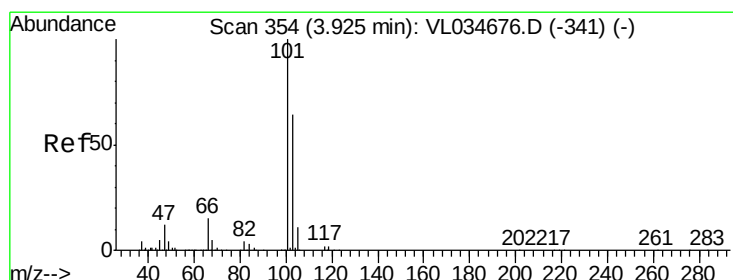
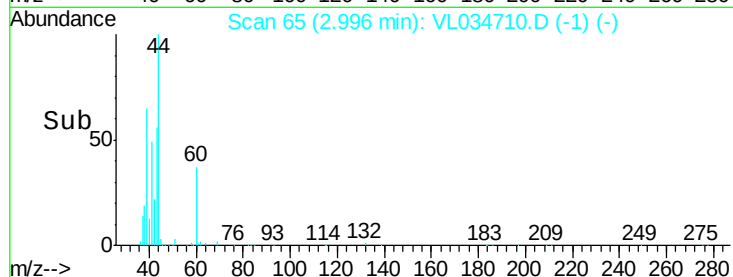
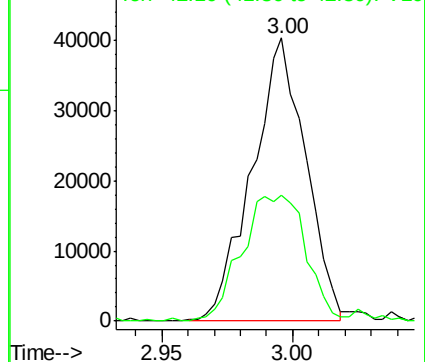
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.292 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. 0.02 min

Lab File: VL034710.D

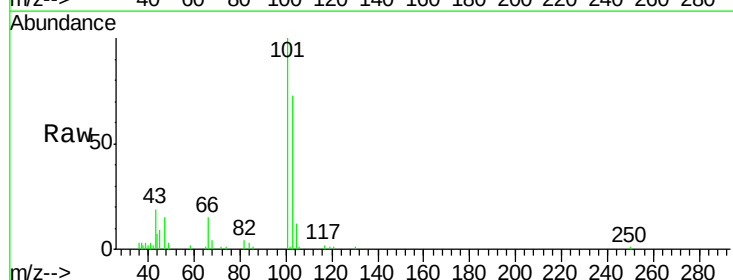
Acq: 27 Feb 2020 15:55

Tgt Ion: 101 Resp: 38672

Ion Ratio Lower Upper

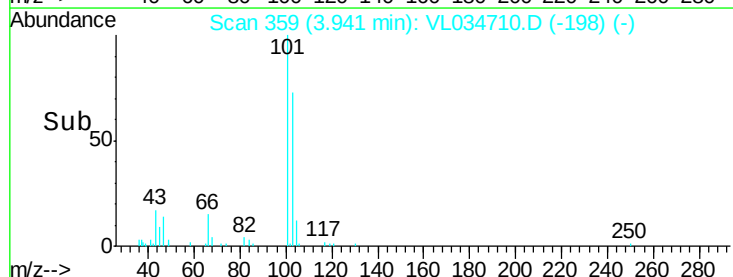
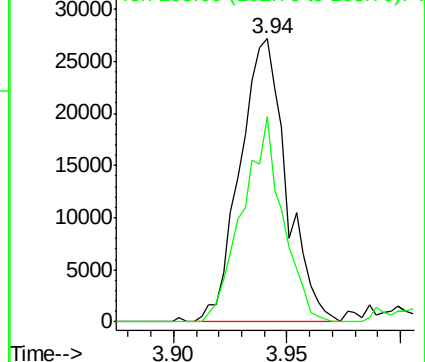
101 100

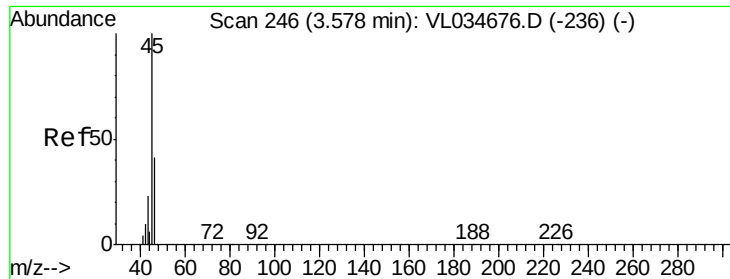
103 72.7 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





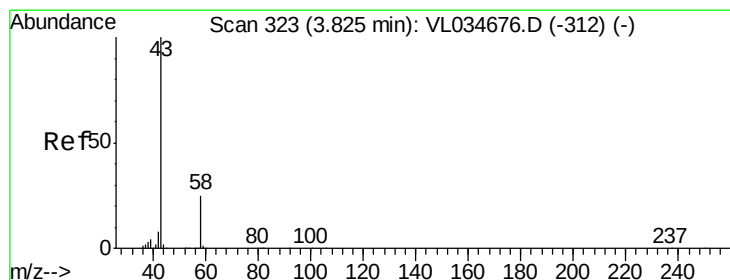
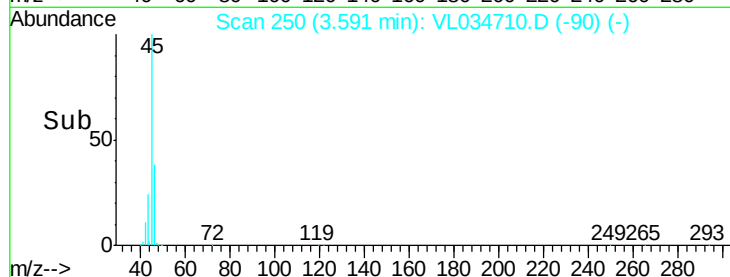
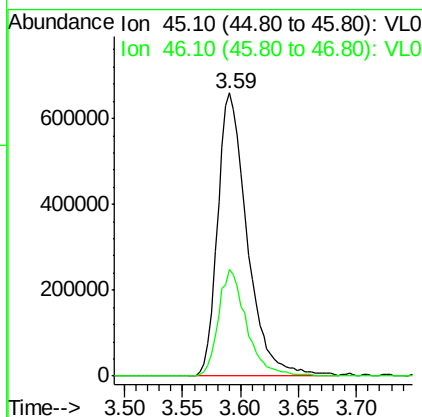
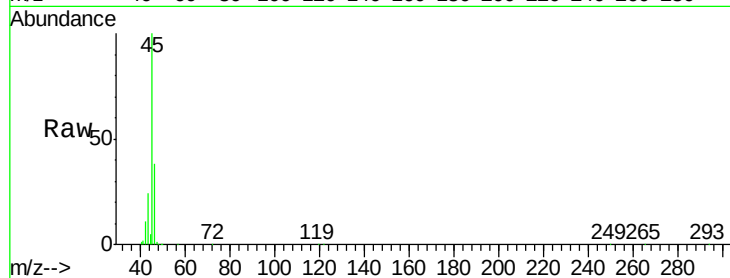
#13
Ethanol
Concen: 85.775 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOMDUP

Tot Ion: 45 Resp: 1171271
Ion Ratio Lower Upper
45 100
46 36.4 15.4 61.4

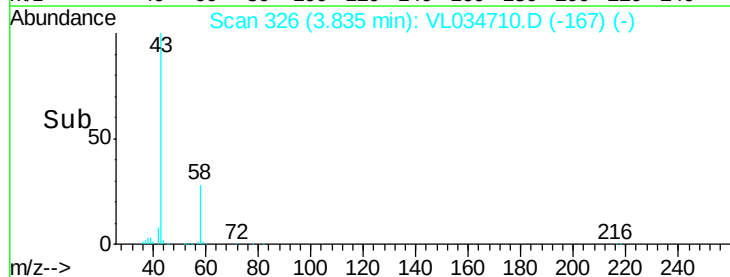
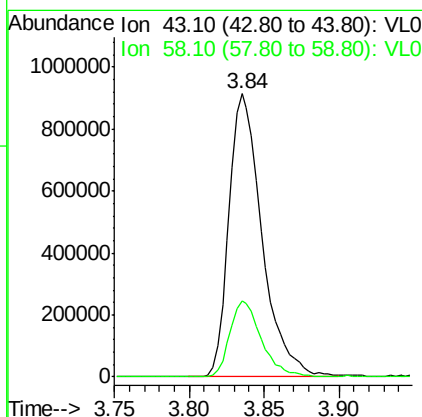
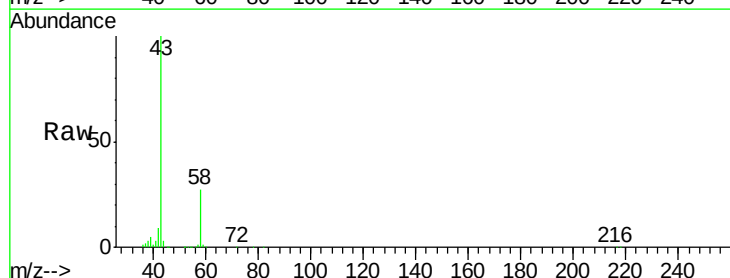
Manual Integrations
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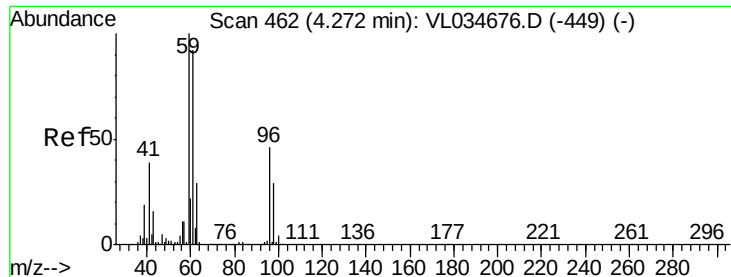
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#15
Acetone
Concen: 12.918 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.01 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Tgt Ion: 43 Resp: 1410489
Ion Ratio Lower Upper
43 100
58 25.9 21.4 32.0





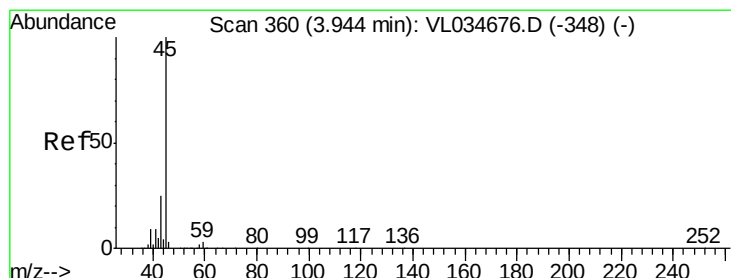
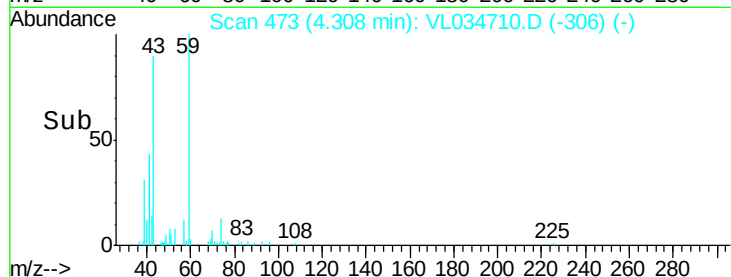
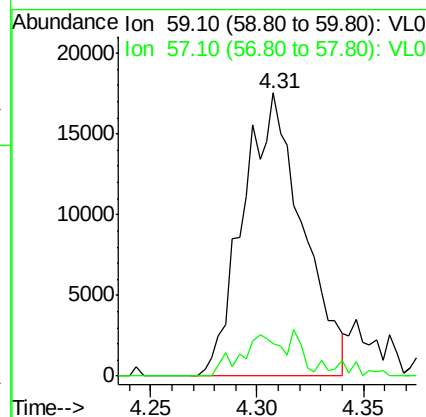
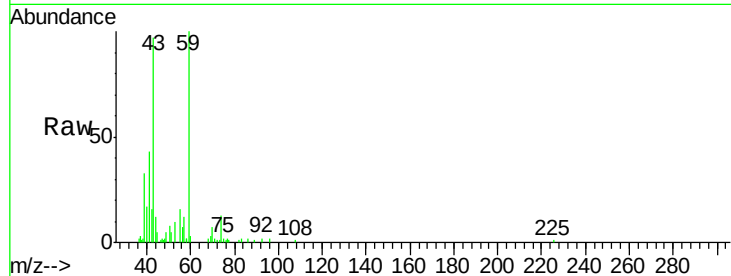
#17
 tert-Butyl alcohol
 Concen: 0.407 ppbv m
 RT: 4.31 min Scan# 473
 Delta R.T. 0.04 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOMDUP

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

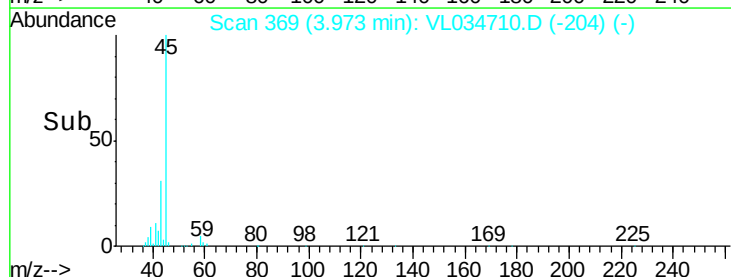
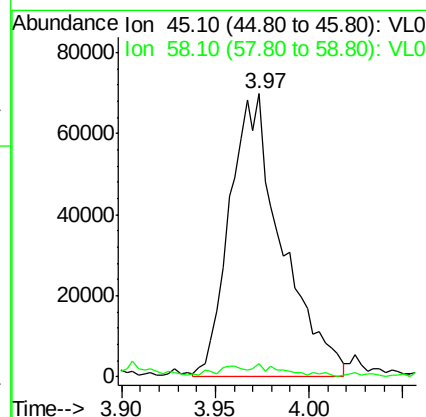
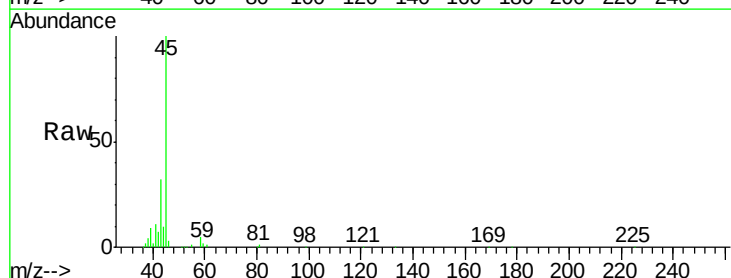
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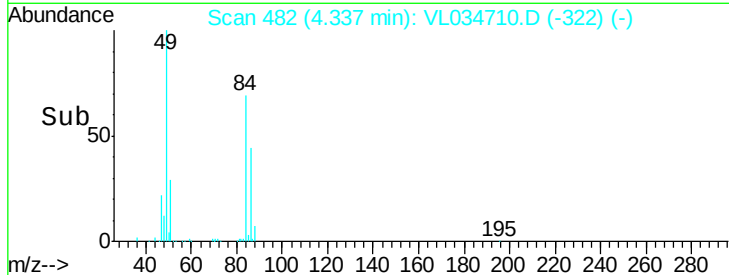
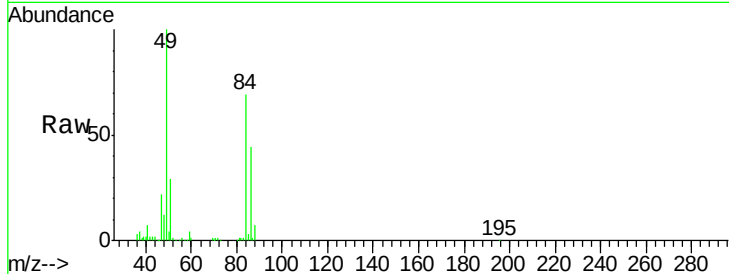
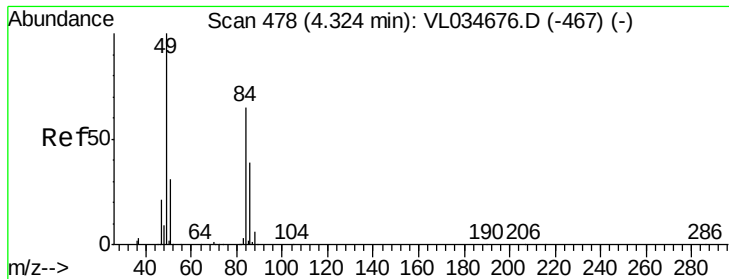
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#19
 Isopropyl Alcohol
 Concen: 2.077 ppbv m
 RT: 3.97 min Scan# 369
 Delta R.T. 0.03 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.8	2.6#





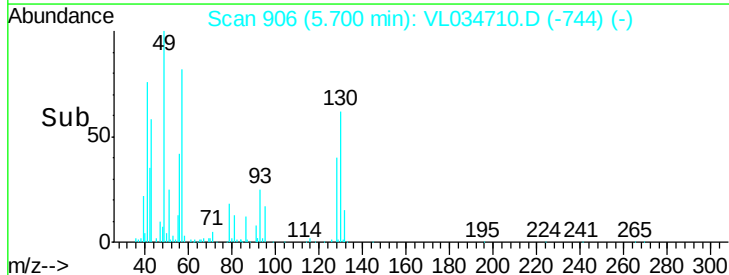
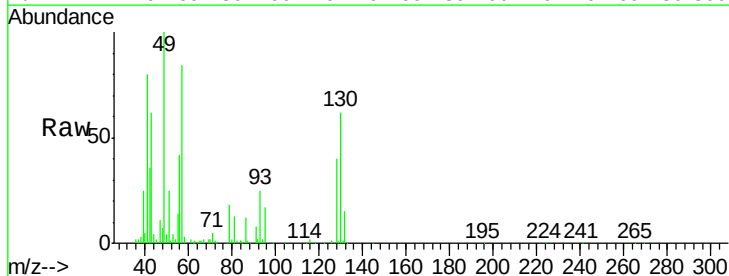
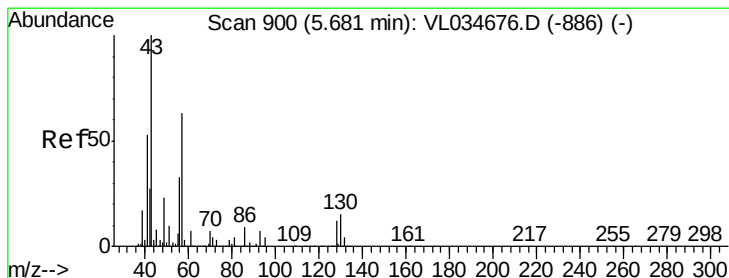
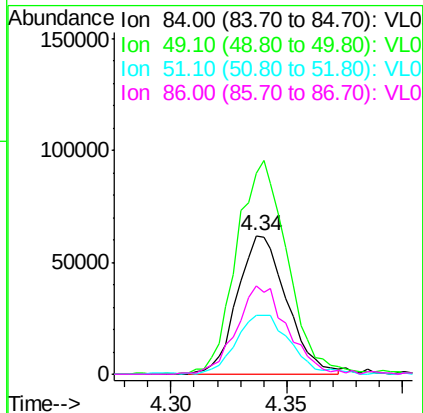
#20
Methvlene Chloride
Concen: 2.262 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Tot Ion:	84	Resp:	91850
Ion Ratio	Lower	Upper	
84	100		
49	143.3	122.8	184.2
51	41.2	38.6	58.0
86	62.9	47.7	71.5

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOMDUP

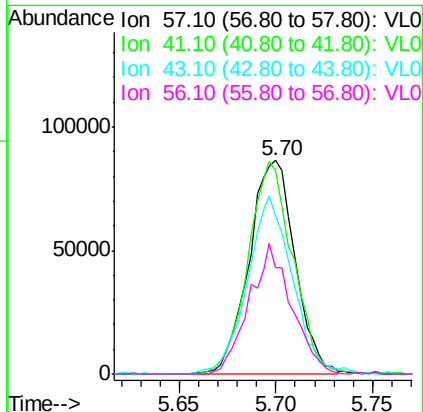
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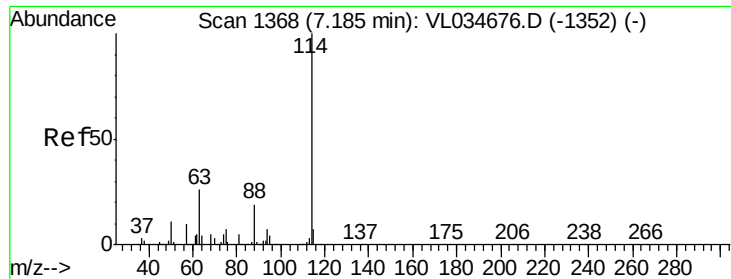
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#26
Hexane
Concen: 1.598 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Tgt Ion:	57	Resp:	142366
Ion Ratio	Lower	Upper	
57	100		
41	97.8	70.3	105.5
43	81.7	177.0	265.4#
56	56.7	42.6	64.0





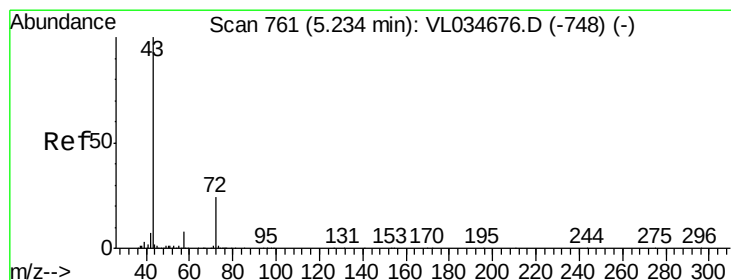
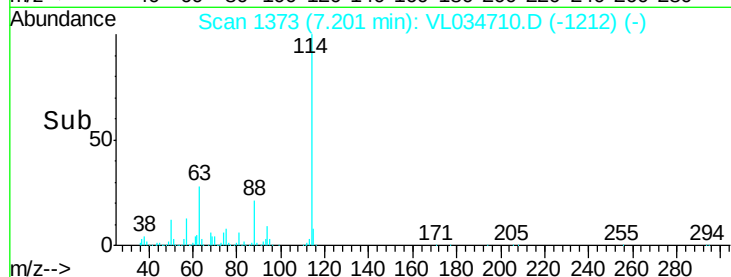
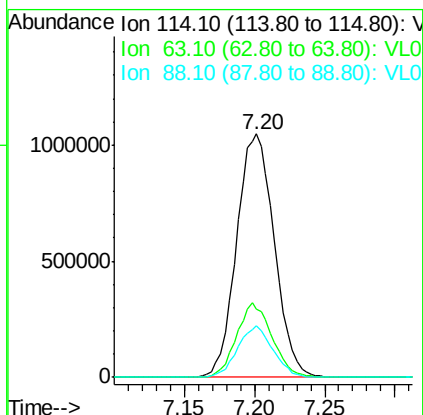
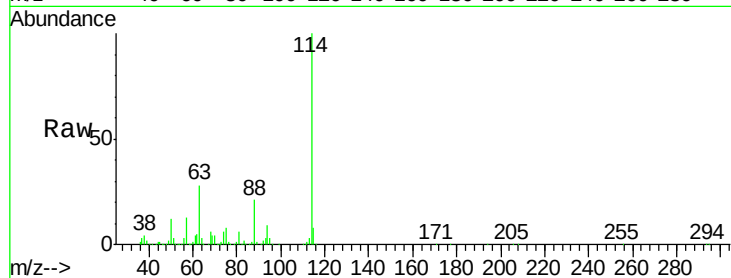
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.02 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOMDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.0	22.9	34.3
88	19.8	15.8	23.6

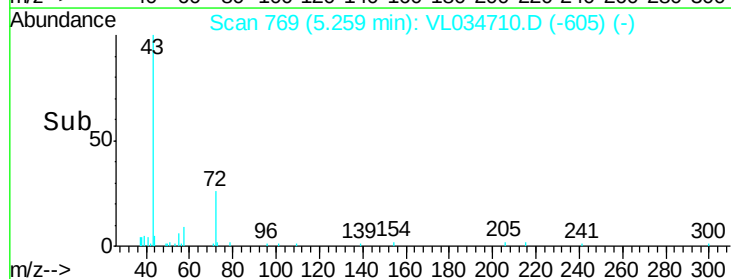
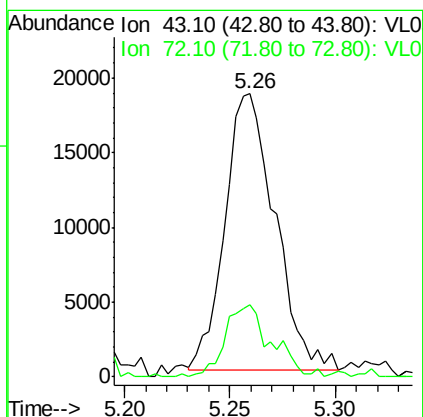
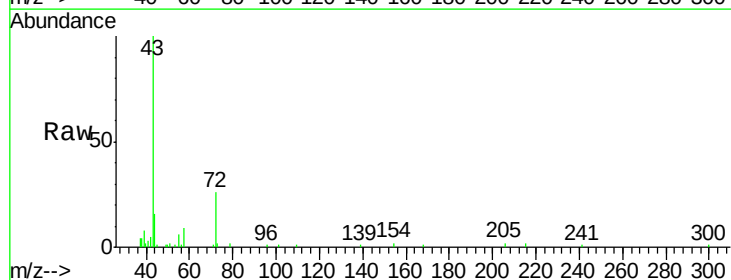
Manual Integrations
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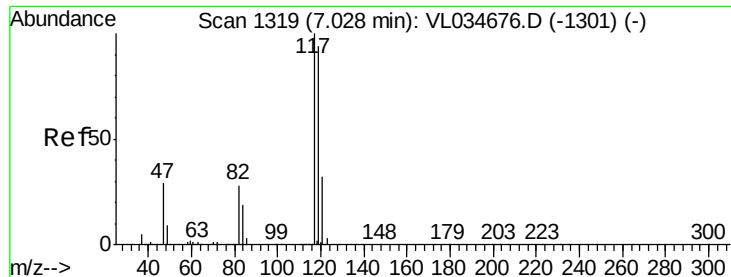
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#34
 2-Butanone
 Concen: 0.248 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.03 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.2	27.2





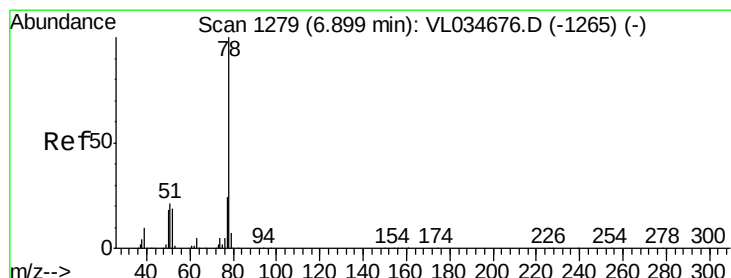
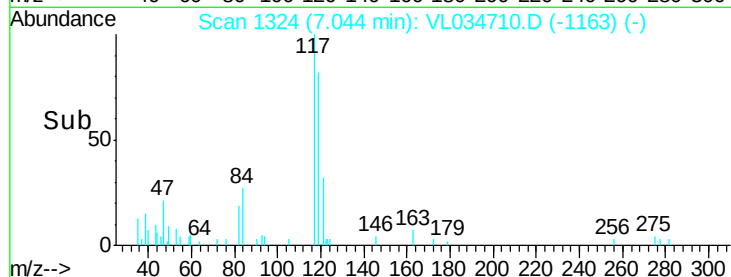
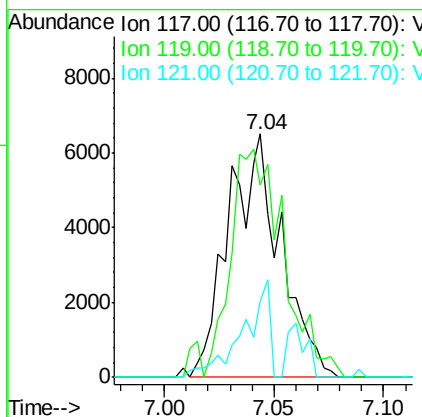
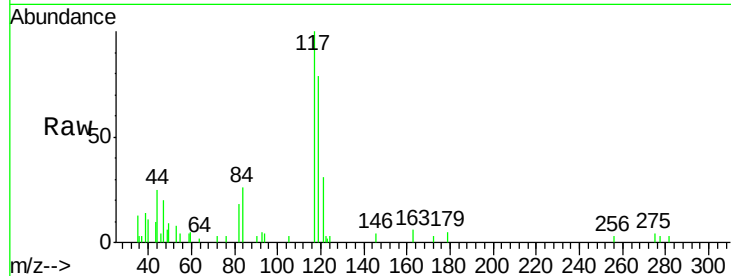
#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.04 min Scan# 1324
Delta R.T. 0.02 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOMDUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	78.9	75.5	113.3
121	31.2	25.4	38.0

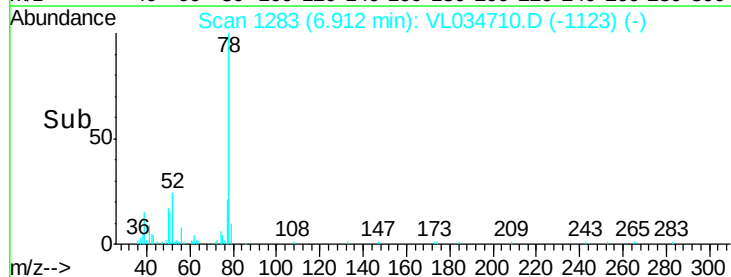
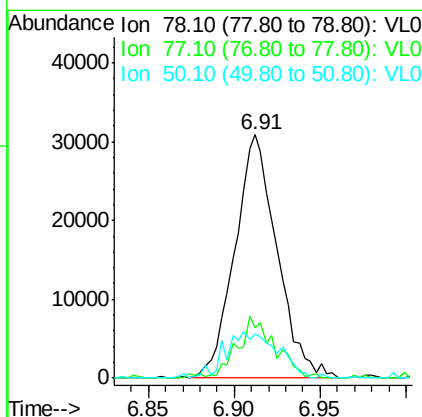
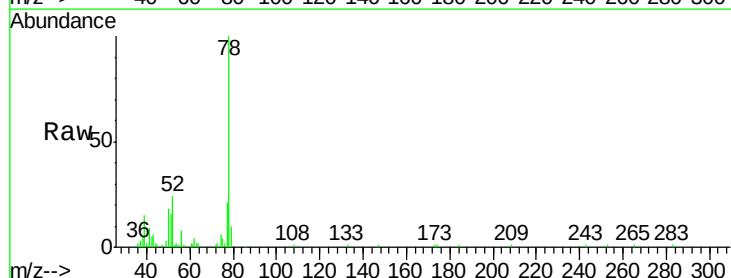
Manual Integrations
APPROVED

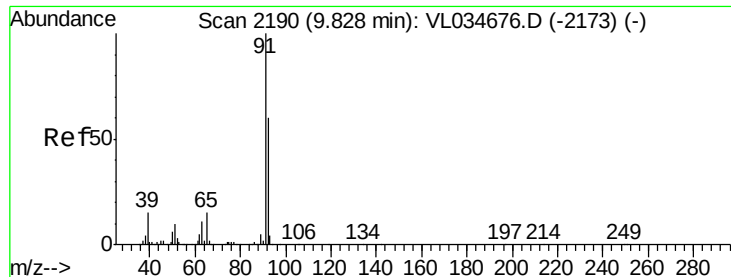
MMDadoda
2/28/2020 12:32:40 PM



#36
Benzene
Concen: 0.311 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.9	19.5	29.3
50	17.9	14.6	21.8





#53

Toluene

Concen: 3.583 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tot Ion: 91 Resp: 644117

Ion Ratio Lower Upper

91 100

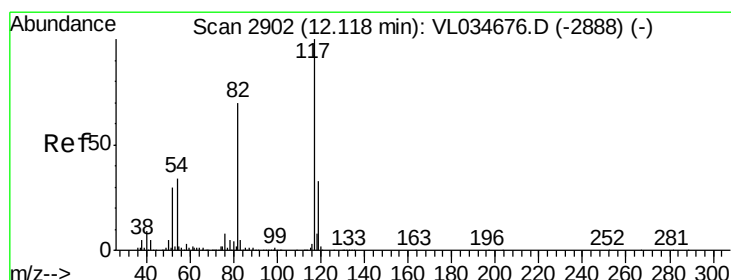
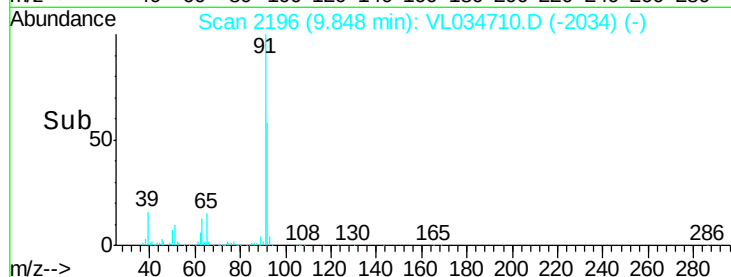
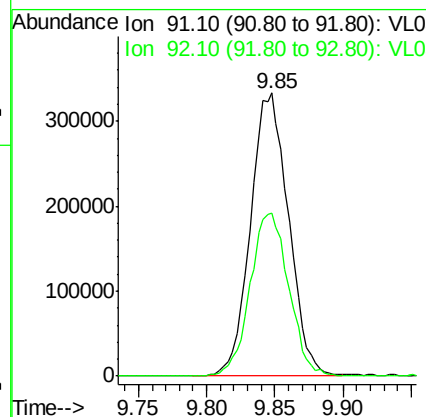
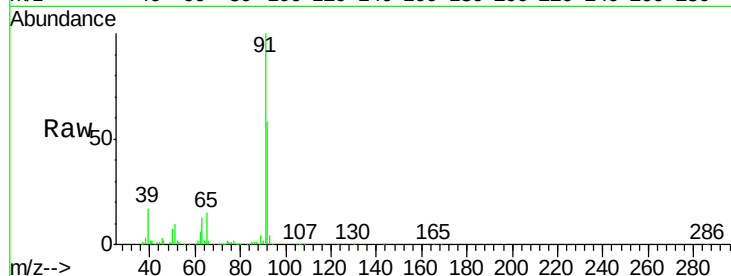
92 58.6 48.5 72.7

Manual Integrations

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2/28/2020 12:32:40 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

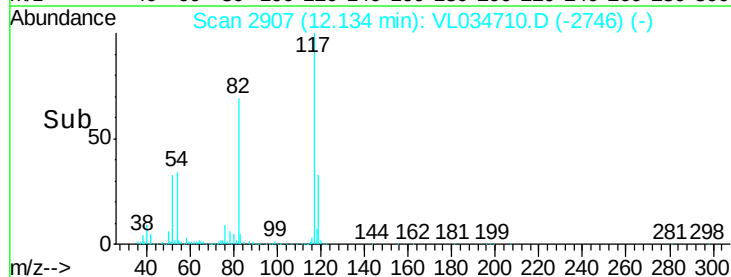
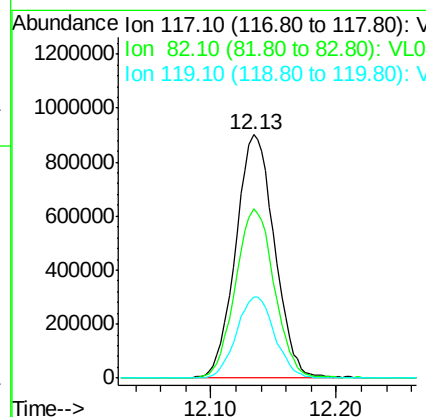
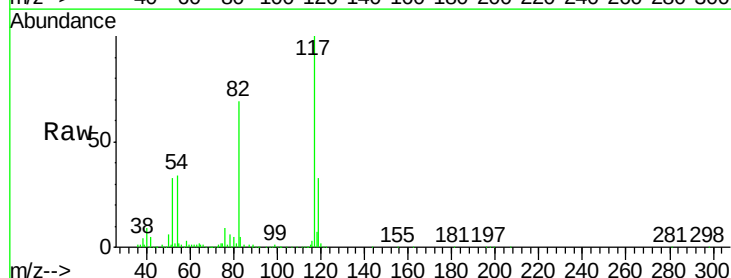
Tgt Ion: 117 Resp: 1934128

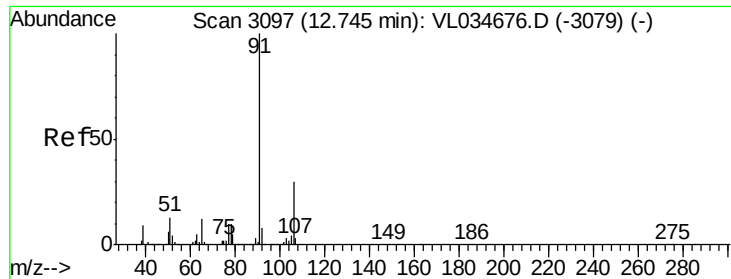
Ion Ratio Lower Upper

117 100

82 70.2 54.1 81.1

119 33.3 27.6 41.4





#58

Ethyl Benzene

Concen: 0.132 ppbv m

RT: 12.76 min Scan# 3103

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tot Ion: 91 Resp: 30835

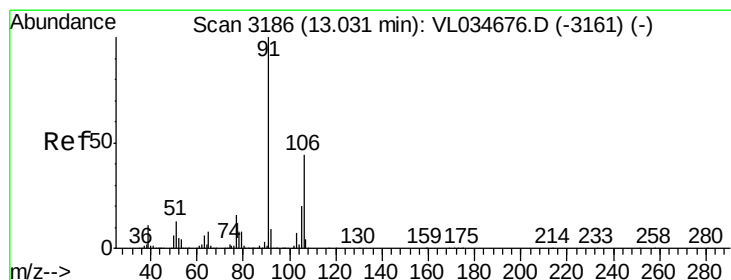
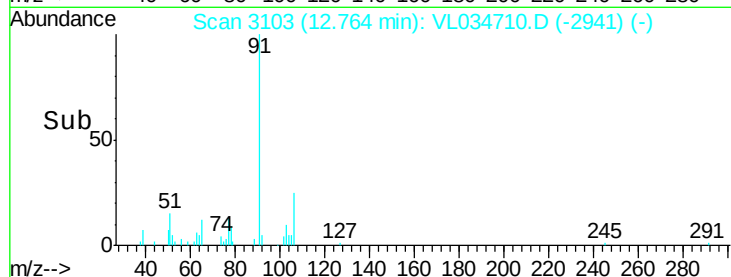
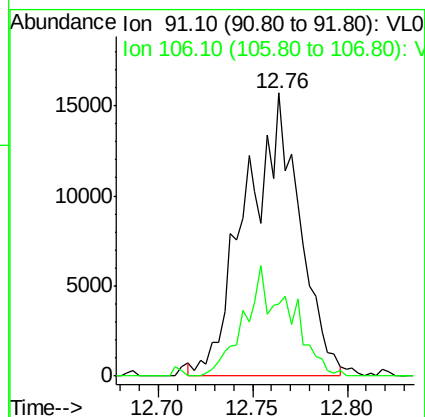
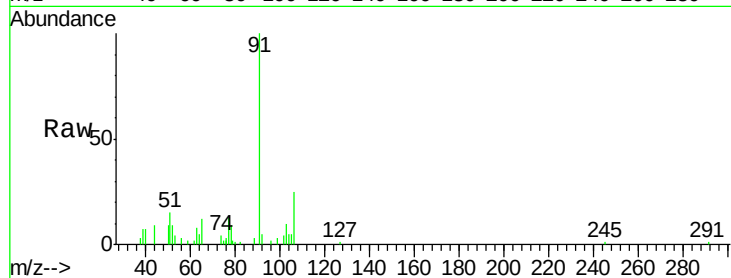
Ion Ratio Lower Upper

91 100

106 25.4 24.0 36.0

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#59

m/p-Xylene

Concen: 0.561 ppbv m

RT: 13.01 min Scan# 3181

Delta R.T. -0.02 min

Lab File: VL034710.D

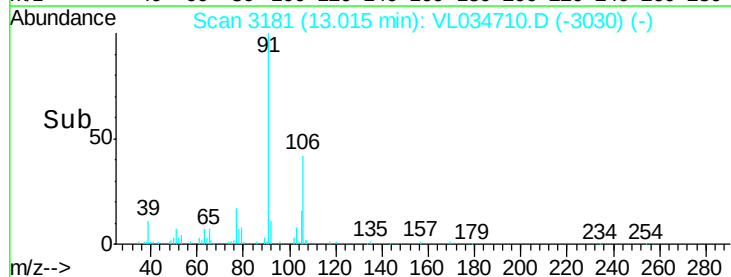
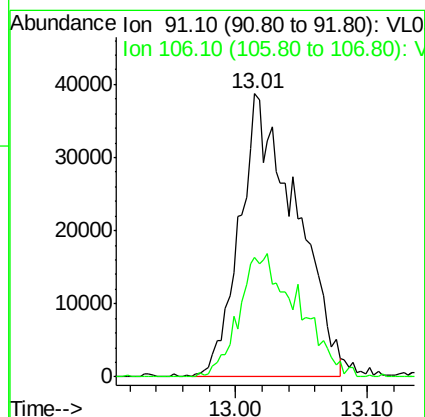
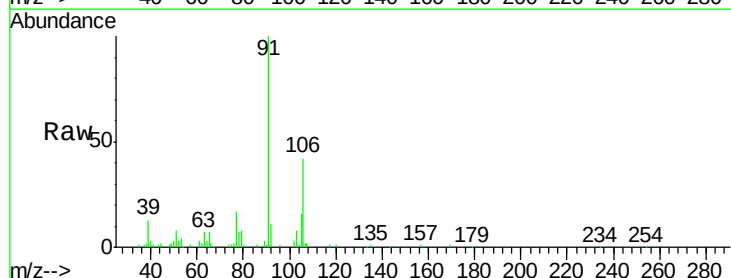
Acq: 27 Feb 2020 15:55

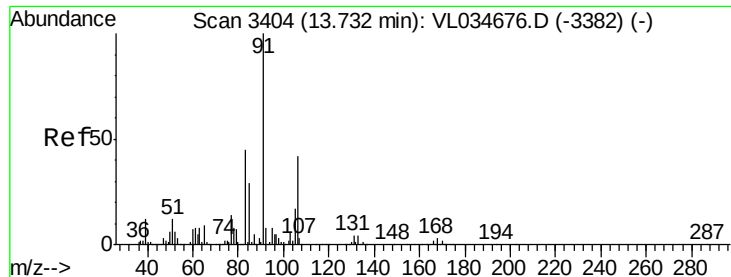
Tgt Ion: 91 Resp: 114406

Ion Ratio Lower Upper

91 100

106 0.0 35.6 53.4#





#60

o-Xylene

Concen: 0.144 ppbv

RT: 13.75 min Scan# 3409

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tot Ion: 91 Resp: 29103

Ion Ratio Lower Upper

91 100

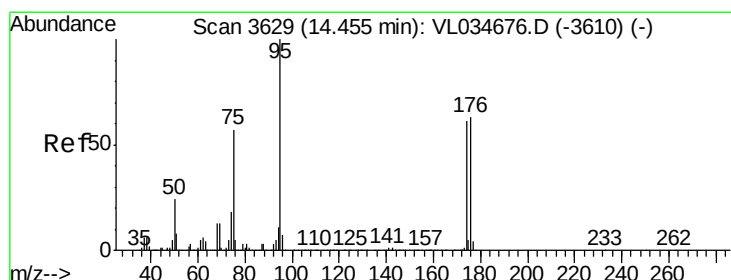
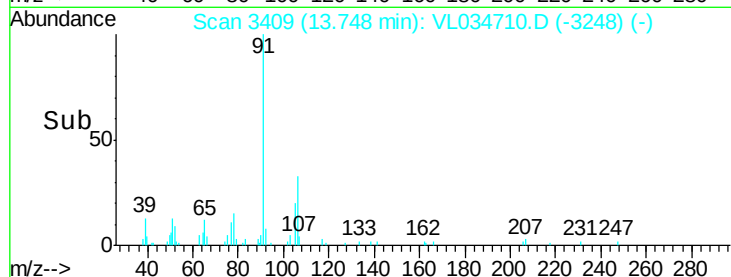
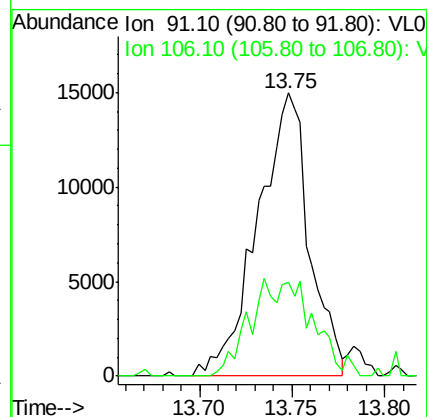
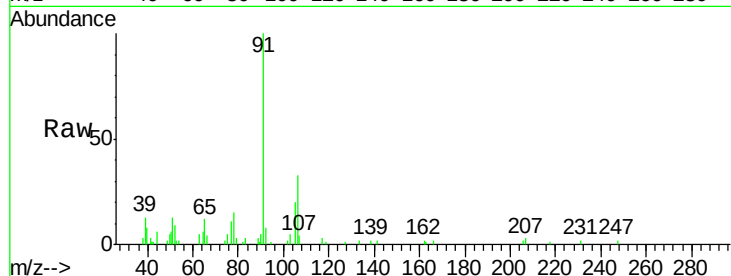
106 41.8 21.9 65.5

Manual Integrations

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2/28/2020 12:32:40 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.282 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Tgt Ion: 95 Resp: 1630658

Ion Ratio Lower Upper

95 100

174 63.1 50.7 76.1

175 4.8 3.9 5.9

