

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034581.D
 Acq On : 4 Feb 2020 15:55
 Operator : SY/AP
 Sample : L1356-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Manual Integrations
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MMDadoda
 2/5/2020 2:50:16 PM

Quant Time: Feb 05 06:21:35 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

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	5.67	49	905117	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1864699	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1795834	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1602872	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.02	85	96909	0.486	ppbv	90
3) Chlorodifluoromethane	2.95	51	47653m	0.436	ppbv	
4) Chloromethane	3.11	50	31476m	0.470	ppbv	
9) Propene	2.99	41	97760m	2.296	ppbv	
11) Trichlorofluoromethane	3.93	101	60071	0.332	ppbv	88
13) Ethanol	3.59	45	3378000	296.155	ppbv	99
15) Acetone	3.83	43	643882	4.840	ppbv	97
19) Isopropyl Alcohol	3.96	45	192720m	2.483	ppbv	
20) Methylene Chloride	4.33	84	447068	8.826	ppbv	94
26) Hexane	5.69	57	321901	3.569	ppbv #	54
29) Chloroform	5.75	83	67080	0.421	ppbv	84
34) 2-Butanone	5.25	43	56919	0.420	ppbv	98
35) Carbon Tetrachloride	7.03	117	14234m	0.080	ppbv	
36) Benzene	6.90	78	63732m	0.384	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	32983m	0.110	ppbv	
52) Tetrachloroethene	11.27	164	3711m	0.056	ppbv	
53) Toluene	9.84	91	232687m	1.277	ppbv	
59) m/p-Xylene	13.01	91	48517m	0.228	ppbv	

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

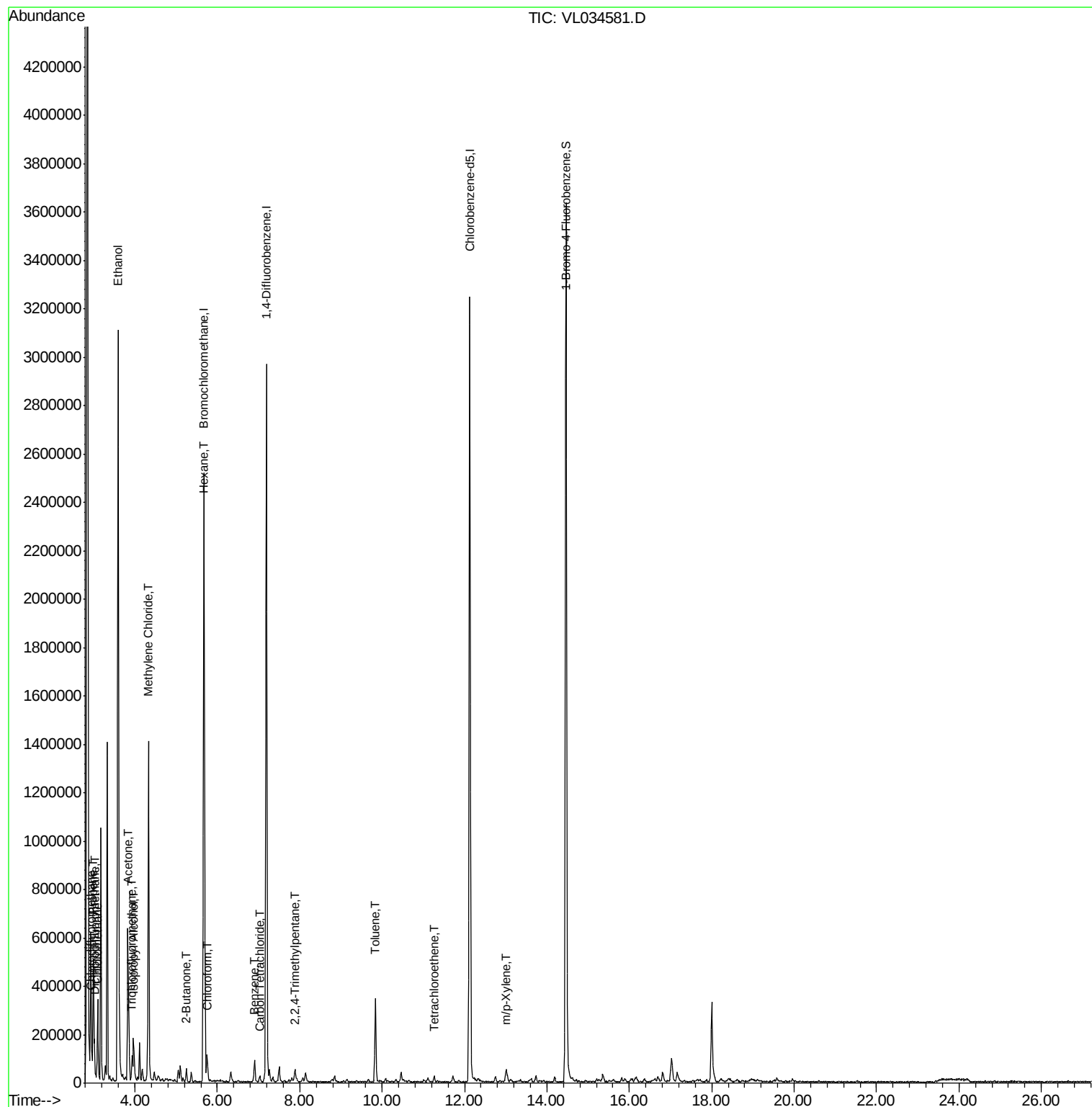
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
Data File : VL034581.D
Acq On : 4 Feb 2020 15:55
Operator : SY/AP
Sample : L1356-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

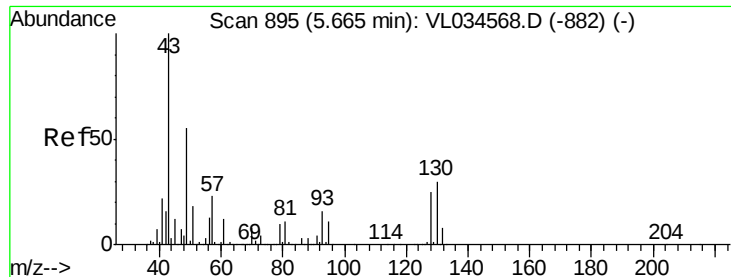
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Manual Integrations
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Quant Time: Feb 05 06:21:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 49 Resp: 905117
Ion Ratio Lower Upper

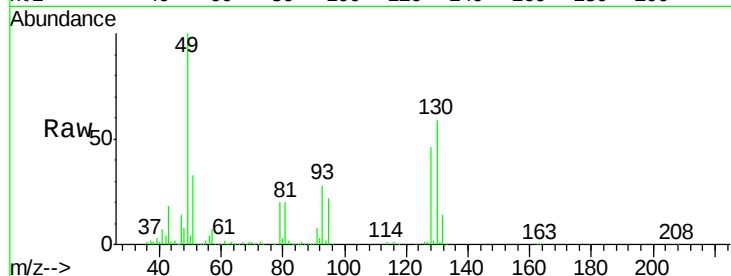
49 100

128 45.5 22.7 68.1

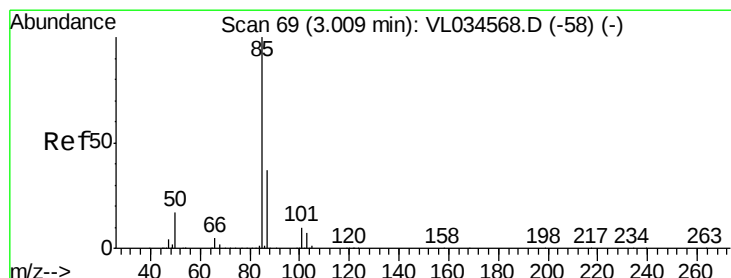
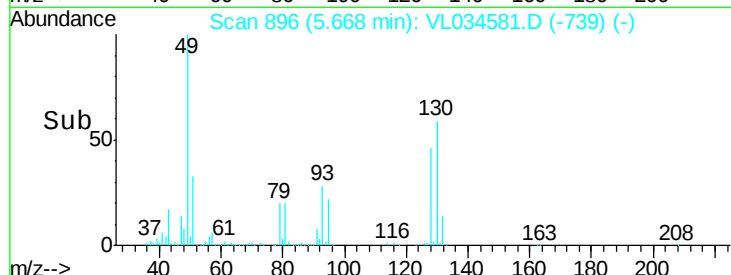
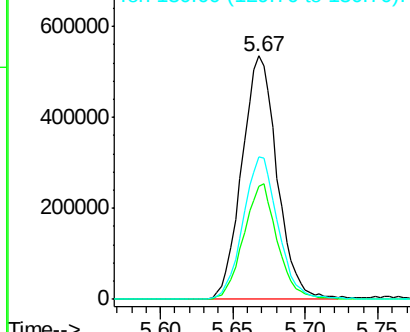
130 58.6 28.6 85.8

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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: 0.486 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

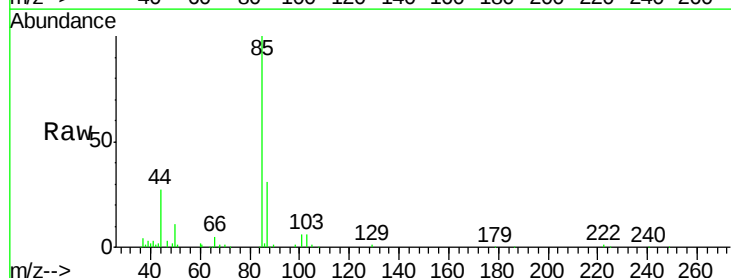
Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

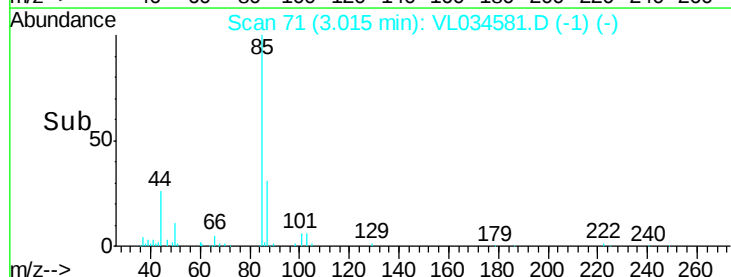
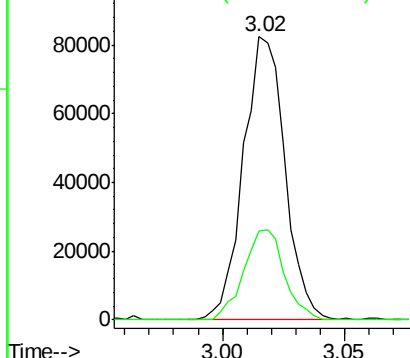
Tgt Ion: 85 Resp: 96909
Ion Ratio Lower Upper

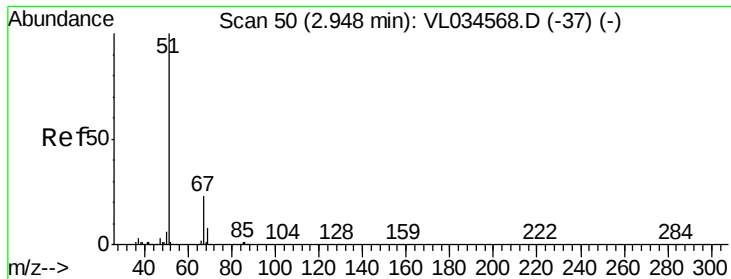
85 100

87 31.2 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: 0.436 ppbv m

RT: 2.95 min Scan# 52

Delta R.T. 0.01 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 51 Resp: 47653

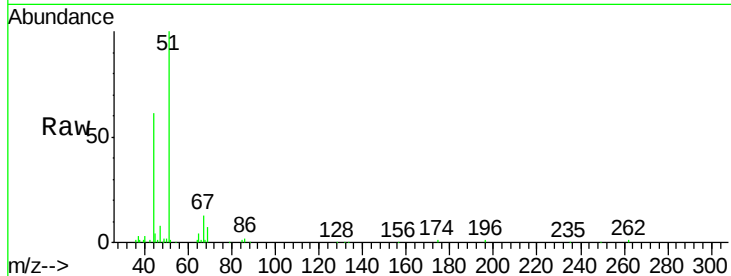
Ion Ratio Lower Upper

51 100

67 22.9 17.8 26.8

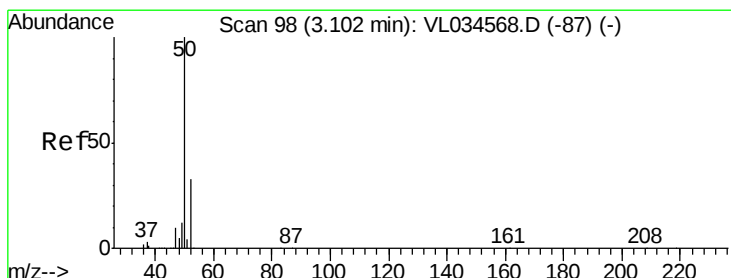
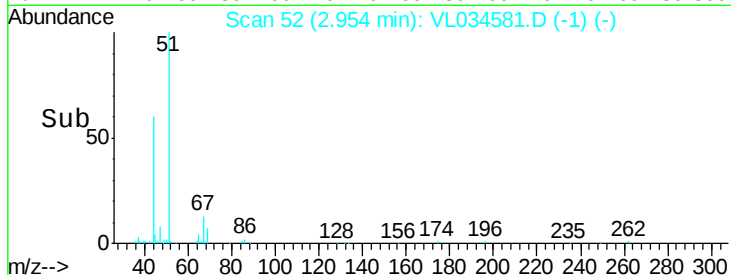
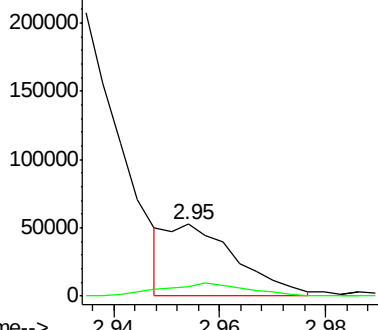
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.470 ppbv m

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034581.D

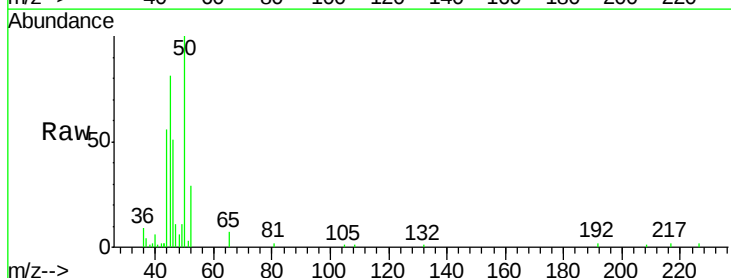
Acq: 4 Feb 2020 15:55

Tgt Ion: 50 Resp: 31476

Ion Ratio Lower Upper

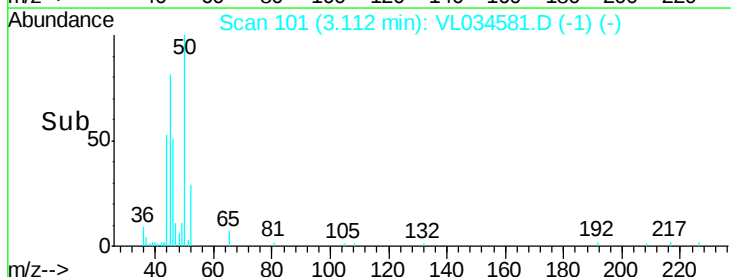
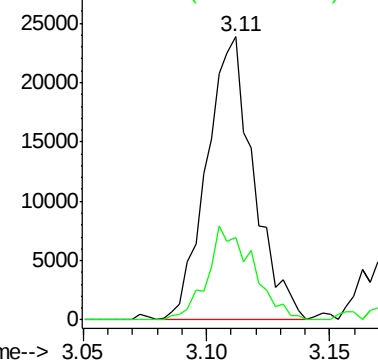
50 100

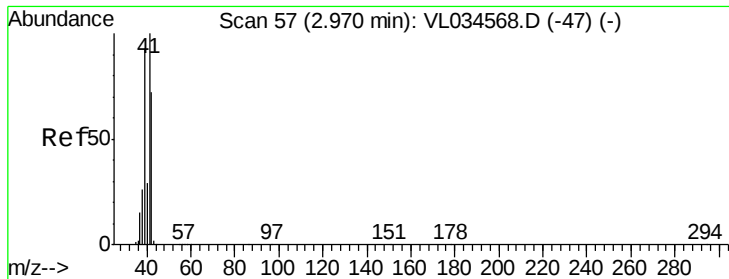
52 29.3 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





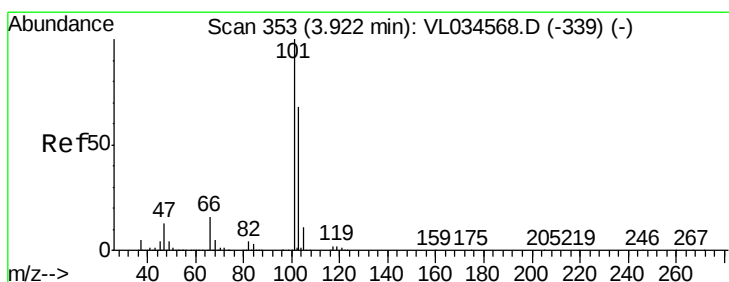
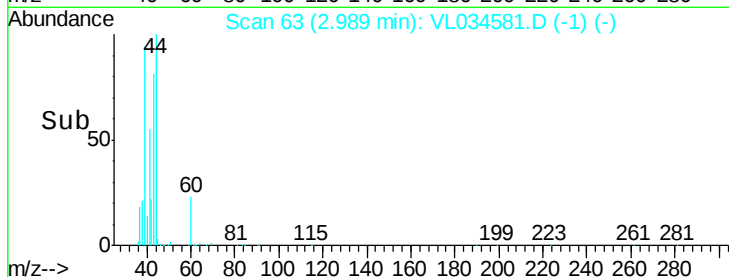
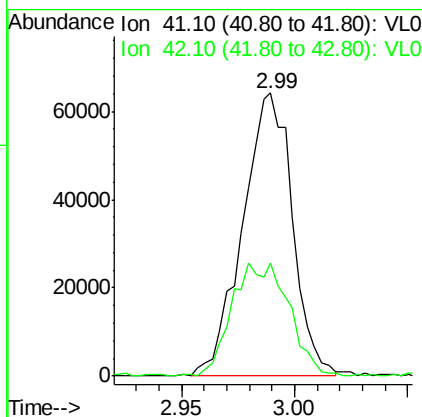
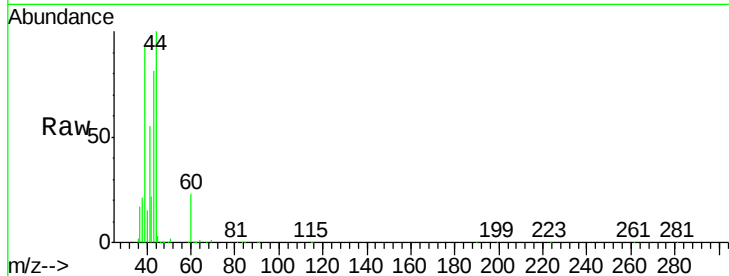
#9
 Propene
 Concen: 2.296 ppbv m
 RT: 2.99 min Scan# 63
 Delta R.T. 0.02 min
 Lab File: VL034581.D
 Acq: 4 Feb 2020 15:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Tot Ion: 41 Resp: 97760
 Ion Ratio Lower Upper
 41 100
 42 175.7 57.0 85.4#

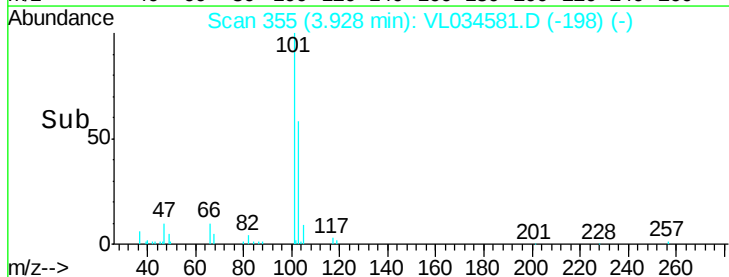
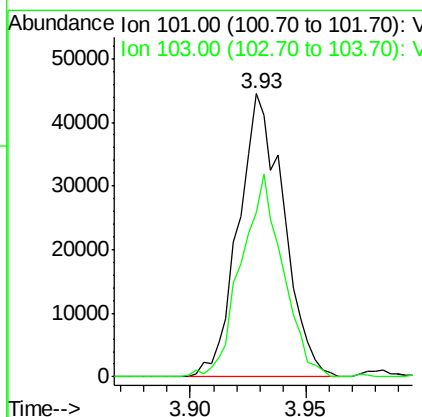
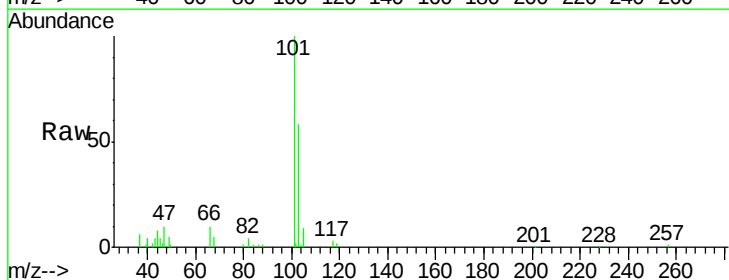
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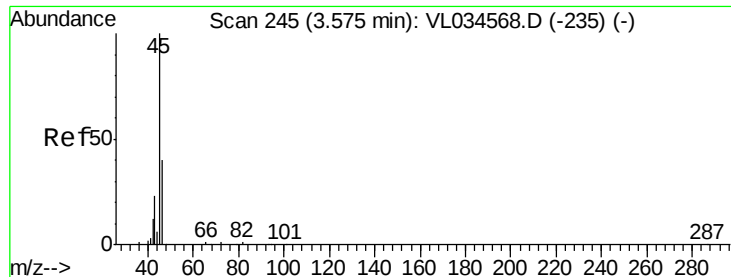
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#11
 Trichlorofluoromethane
 Concen: 0.332 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VL034581.D
 Acq: 4 Feb 2020 15:55

Tgt Ion: 101 Resp: 60071
 Ion Ratio Lower Upper
 101 100
 103 58.2 54.4 81.6





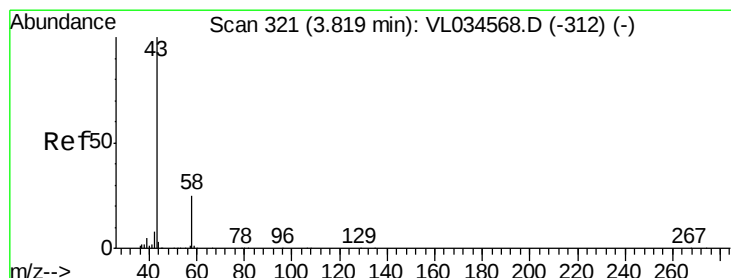
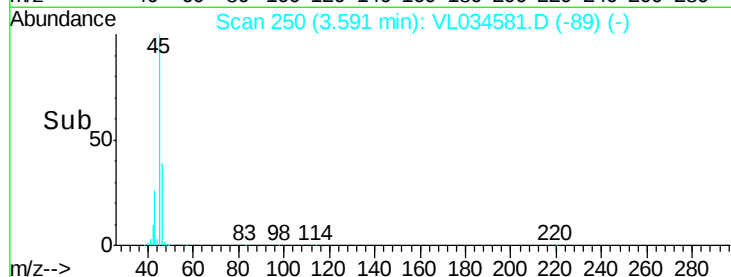
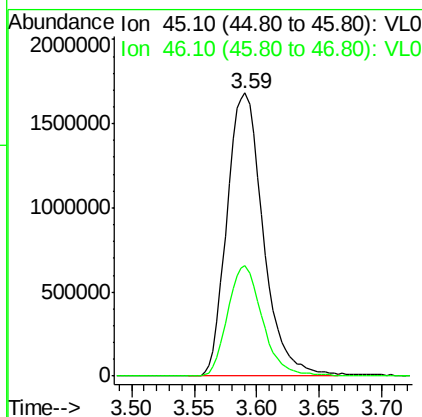
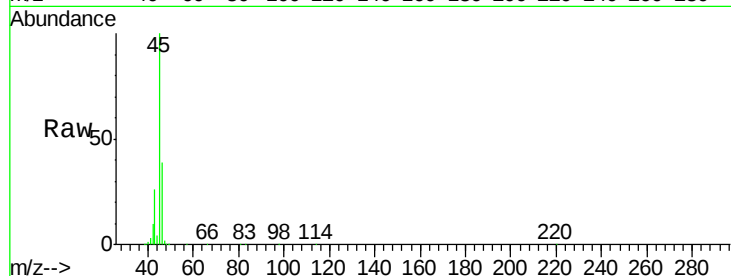
#13
Ethanol
Concen: 296.155 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.02 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion: 45 Resp: 3378000
Ion Ratio Lower Upper
45 100
46 37.8 14.8 59.2

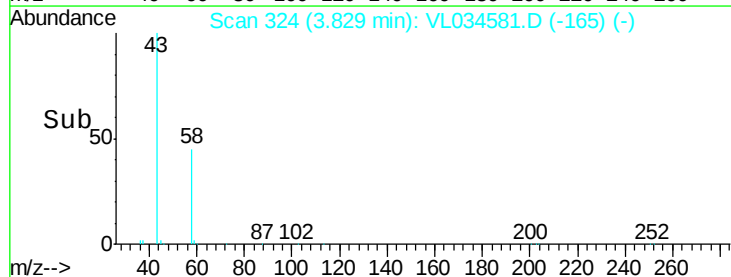
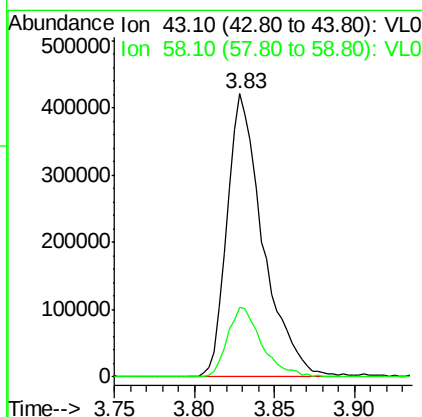
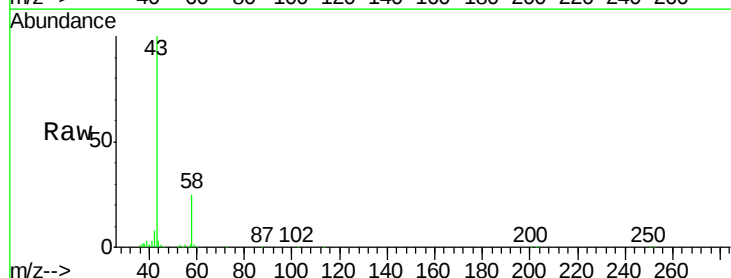
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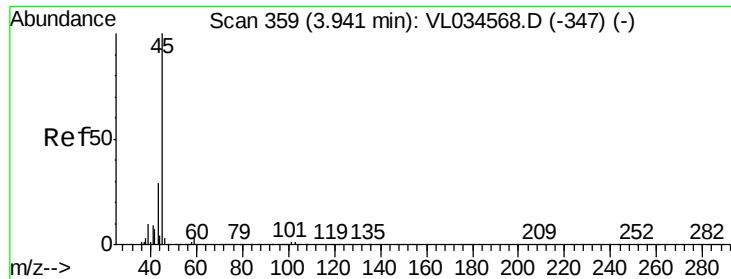
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#15
Acetone
Concen: 4.840 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.01 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Tgt Ion: 43 Resp: 643882
Ion Ratio Lower Upper
43 100
58 23.8 20.3 30.5





#19

Isopropyl Alcohol

Concen: 2.483 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 45 Resp: 192720

Ion Ratio Lower Upper

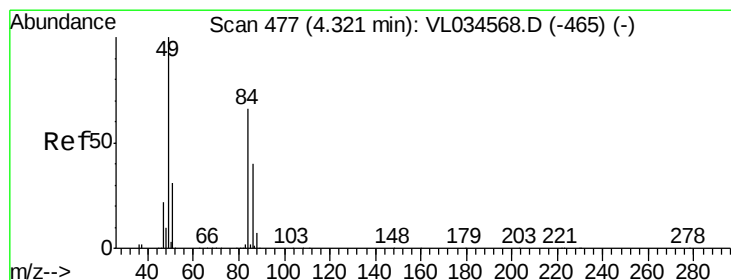
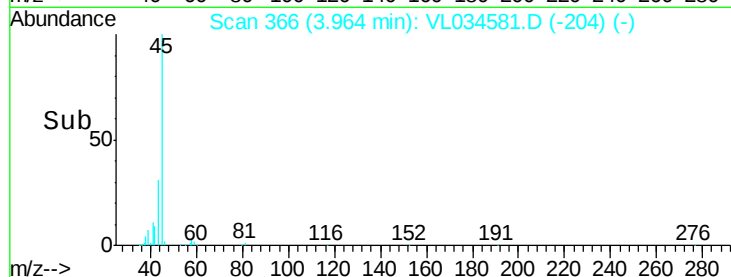
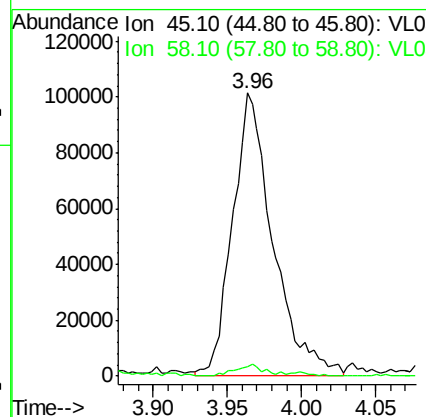
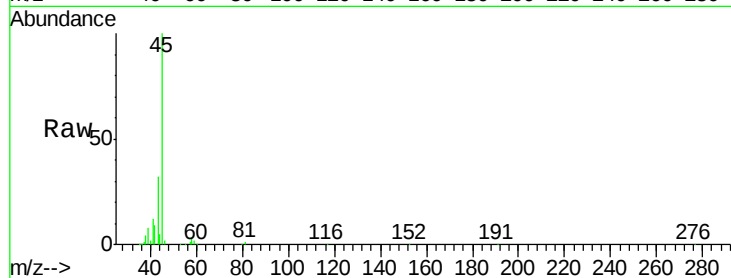
45 100

58 4.0 1.7 2.5#

Manual Integrations
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#20

Methylene Chloride

Concen: 8.826 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Tgt Ion: 84 Resp: 447068

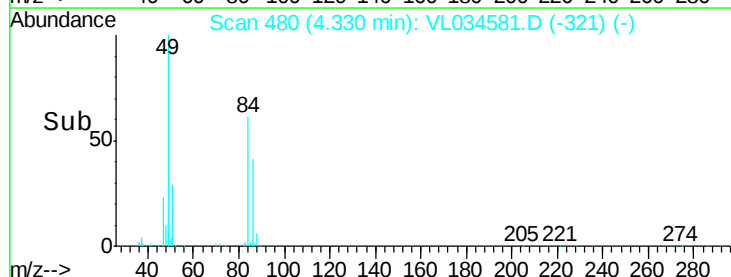
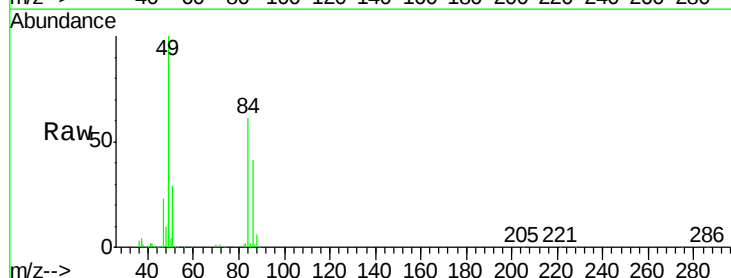
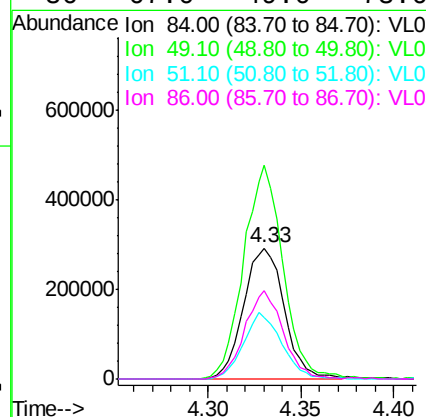
Ion Ratio Lower Upper

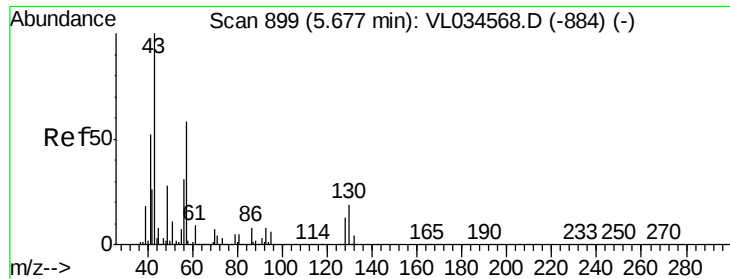
84 100

49 162.7 122.4 183.6

51 46.9 38.6 57.8

86 67.0 49.0 73.6





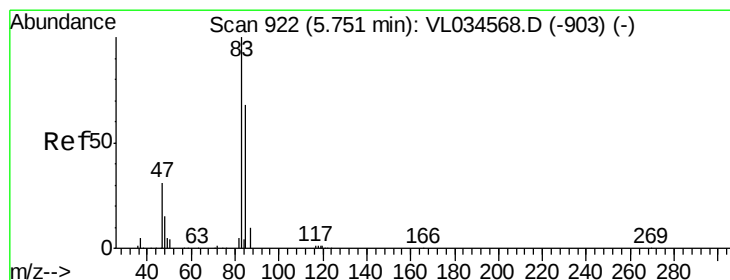
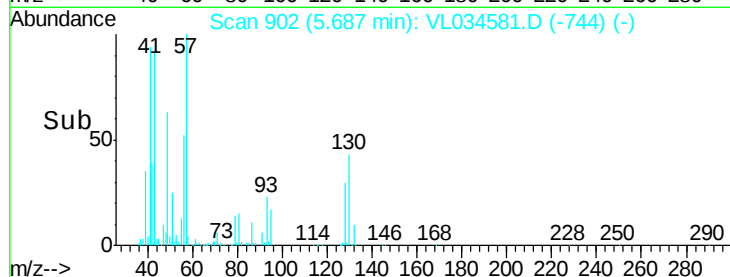
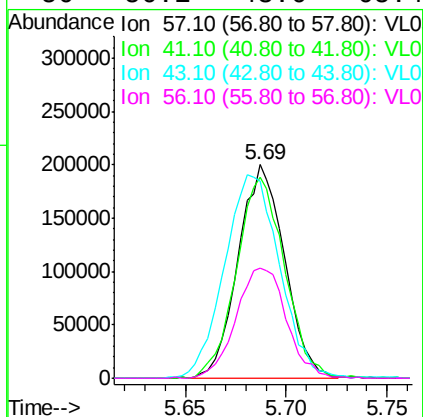
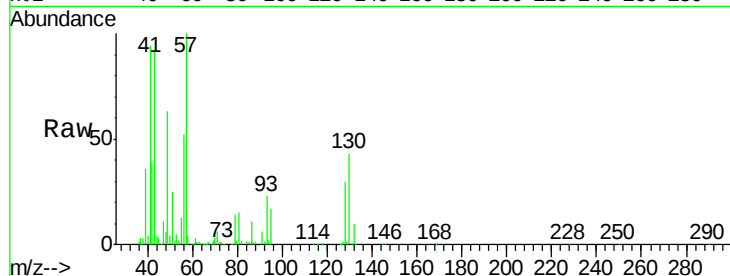
#26
Hexane
Concen: 3.569 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.3	76.2	114.2
43	114.0	189.9	284.9#
56	56.1	43.6	65.4

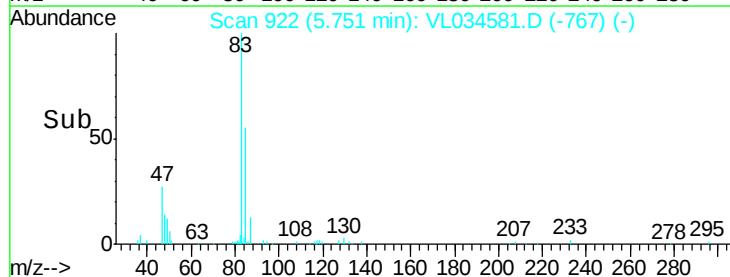
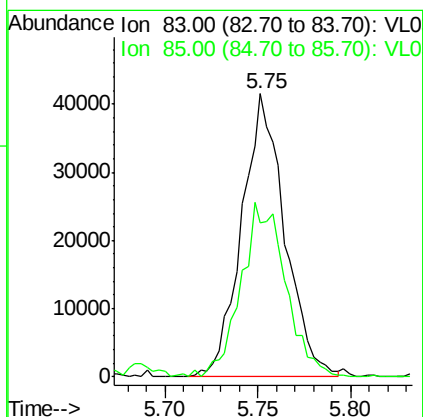
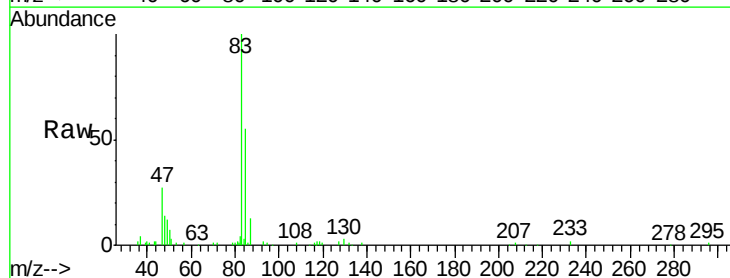
Manual Integrations
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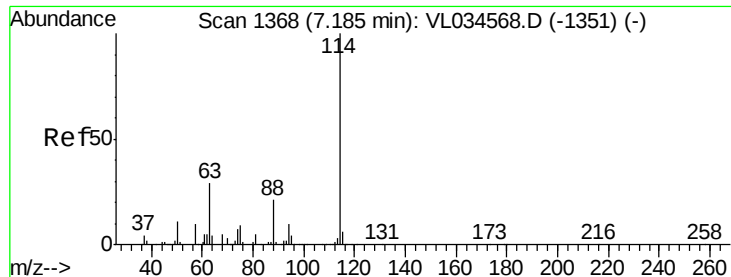
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#29
Chloroform
Concen: 0.421 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.6	54.0	81.0





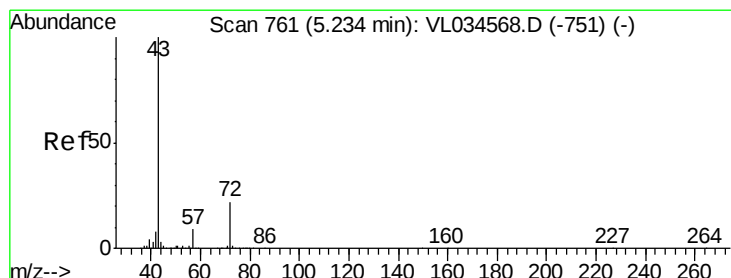
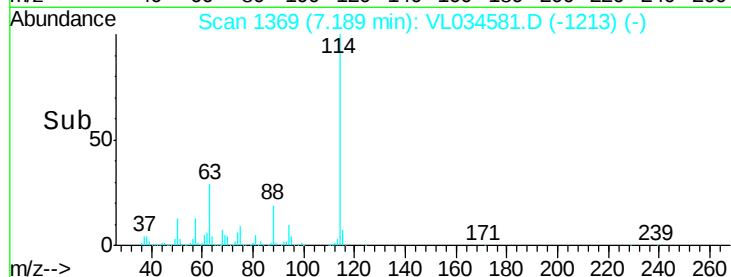
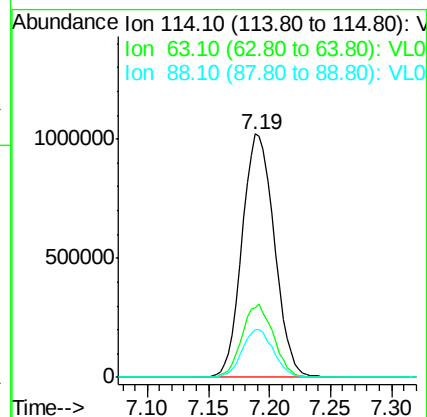
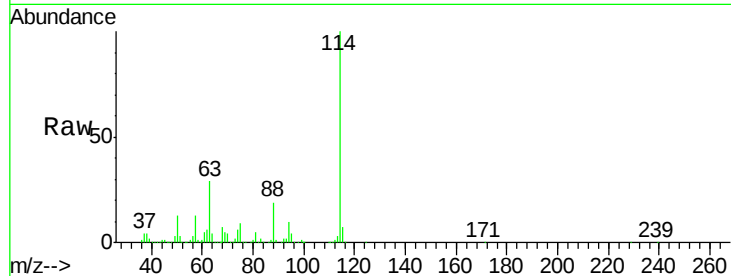
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VL034581.D
 Acq: 4 Feb 2020 15:55

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.1	36.1
88	19.1	15.9	23.9

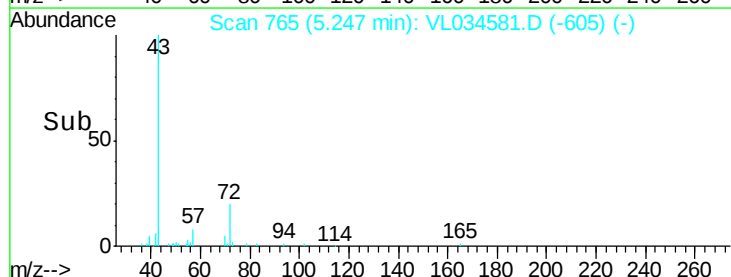
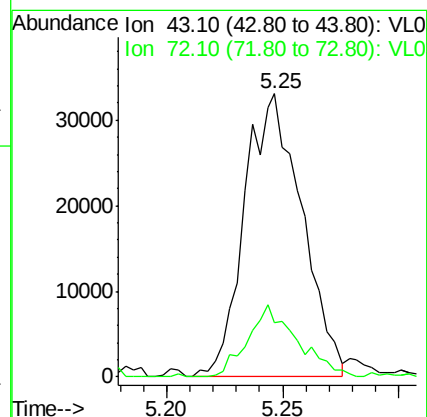
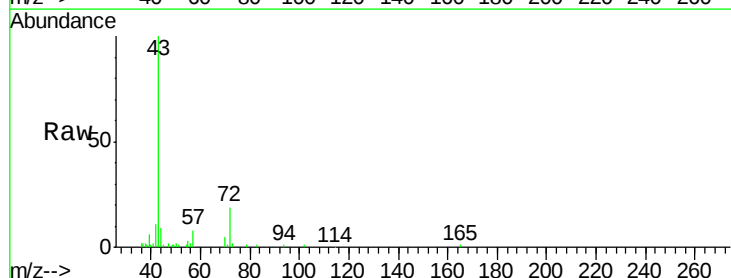
Manual Integrations
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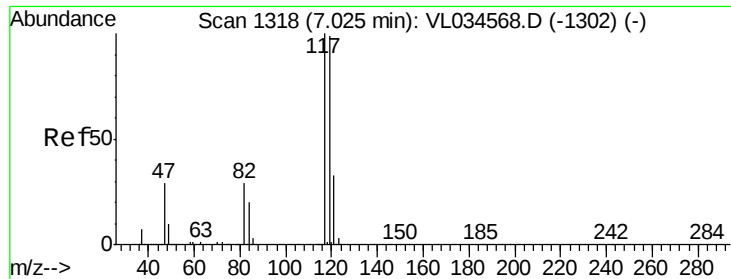
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#34
 2-Butanone
 Concen: 0.420 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL034581.D
 Acq: 4 Feb 2020 15:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.2	25.8





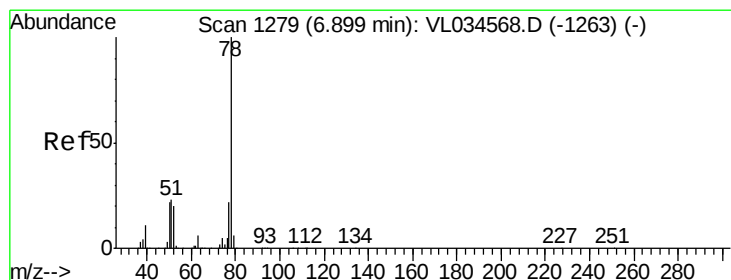
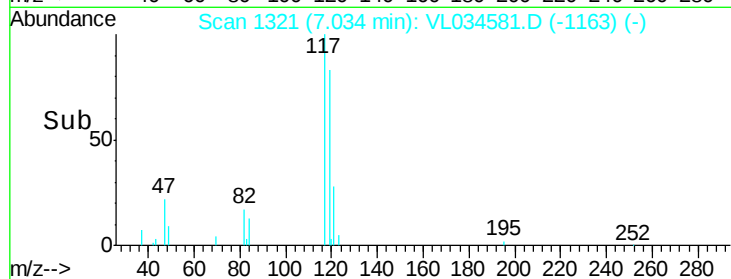
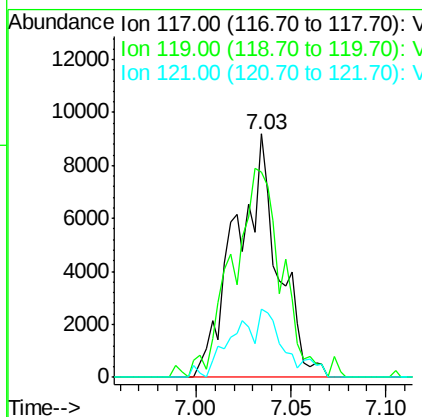
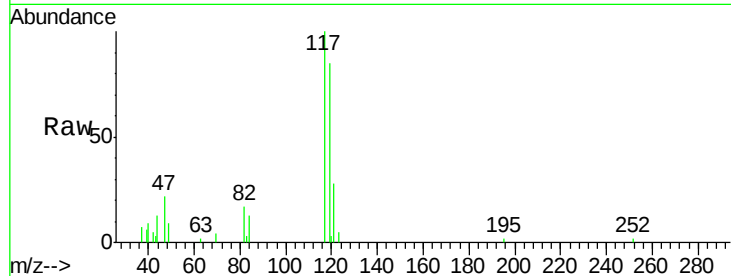
#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. 0.01 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	84.5	79.5	119.3
121	28.1	26.2	39.2

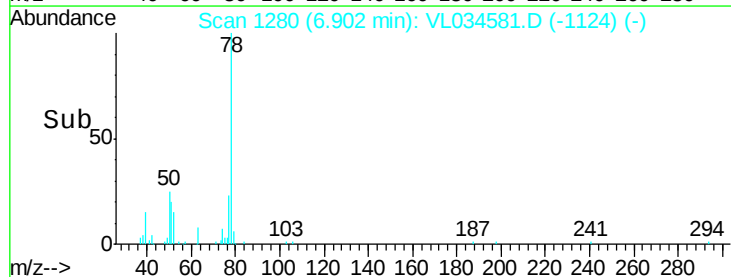
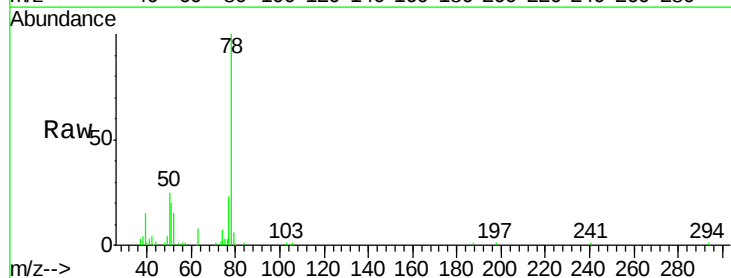
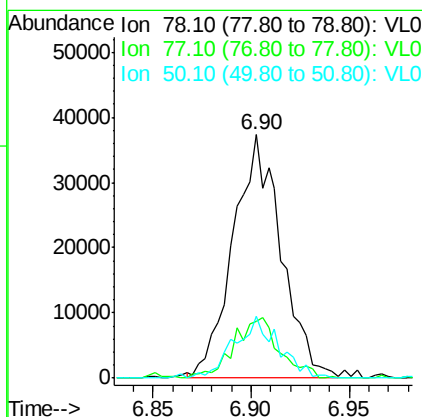
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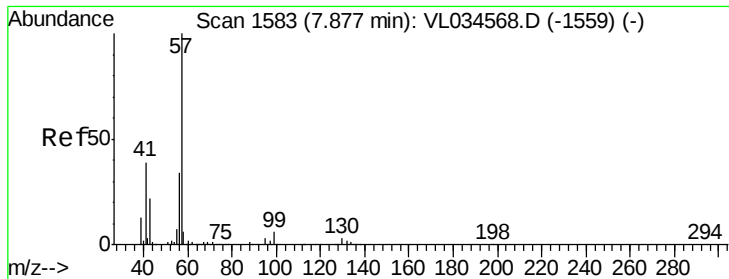
MMDadoda
2/5/2020 2:50:16 PM



#36
Benzene
Concen: 0.384 ppbv m
RT: 6.90 min Scan# 1280
Delta R.T. 0.00 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.3	25.9
50	25.2	17.4	26.2





#44

2,2,4-Trimethylpentane

Concen: 0.110 ppbv m

RT: 7.88 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Instrument :

MSVOA_L

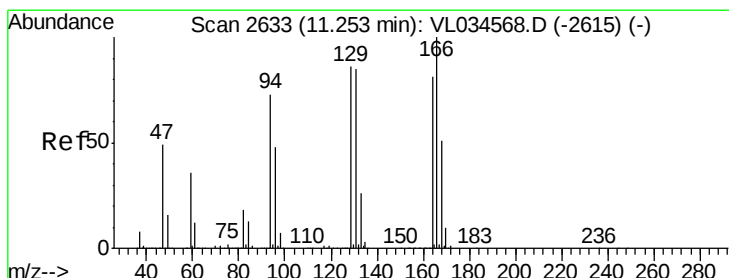
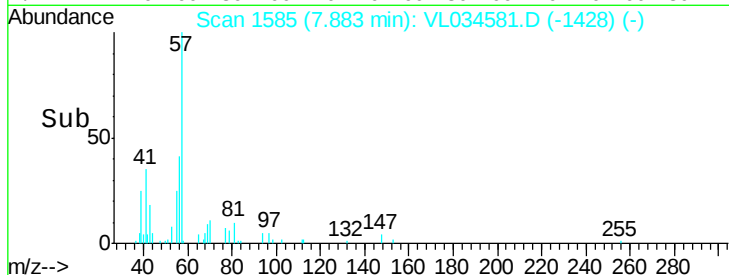
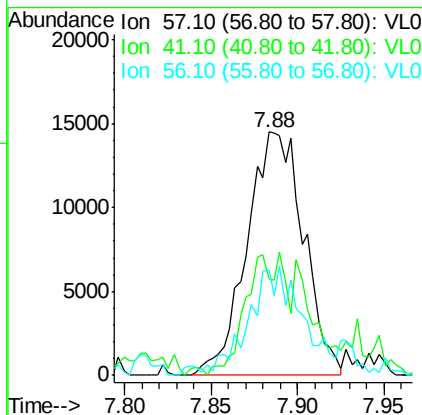
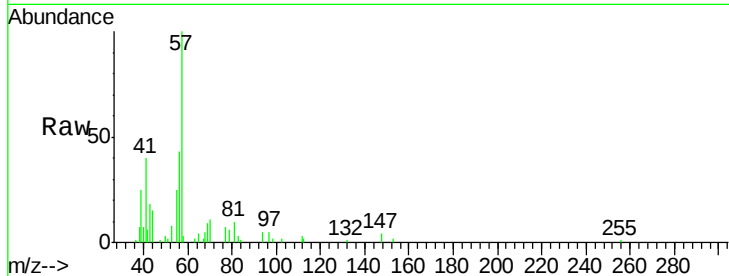
ClientSampleId :

IA-1DUP

Tot Ion:	57	Resp:	32983
Ion	Ratio	Lower	Upper
57	100		
41	62.5	28.9	43.3#
56	48.6	25.5	38.3#

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#52

Tetrachloroethene

Concen: 0.056 ppbv m

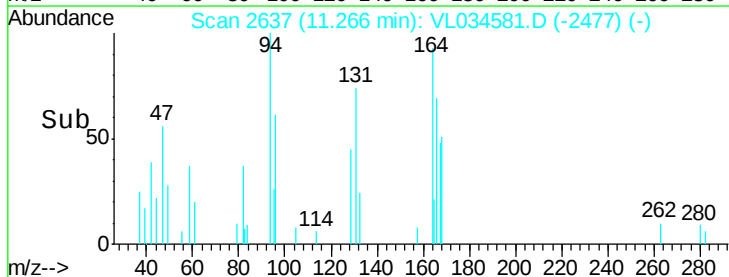
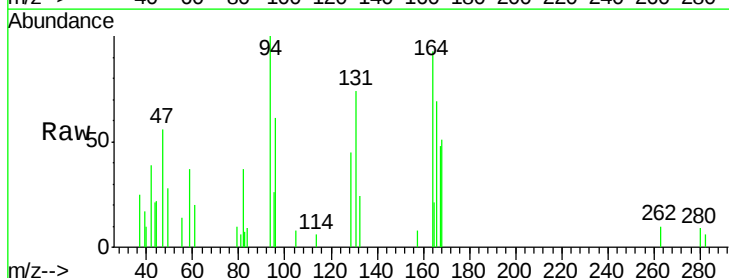
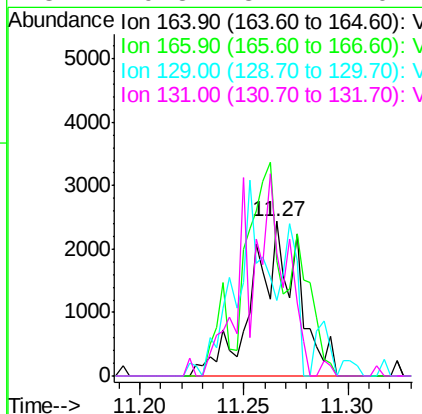
RT: 11.27 min Scan# 2637

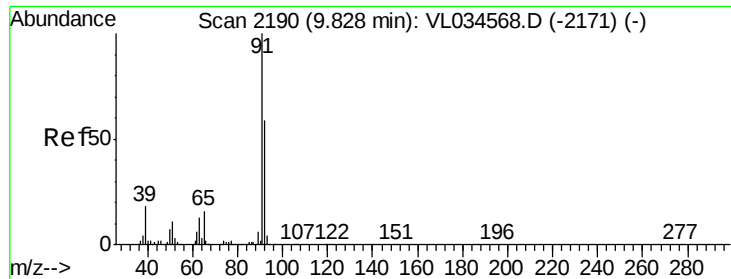
Delta R.T. 0.01 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Tgt Ion:	164	Resp:	3711
Ion	Ratio	Lower	Upper
164	100		
166	74.4	99.0	148.4#
129	48.9	85.3	127.9#
131	79.8	84.2	126.2#





#53

Toluene

Concen: 1.277 ppbv m

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 91 Resp: 232687

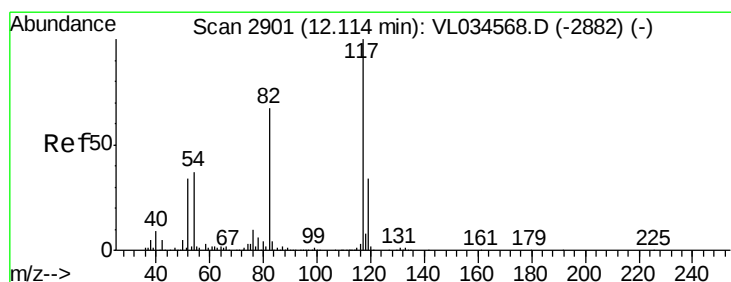
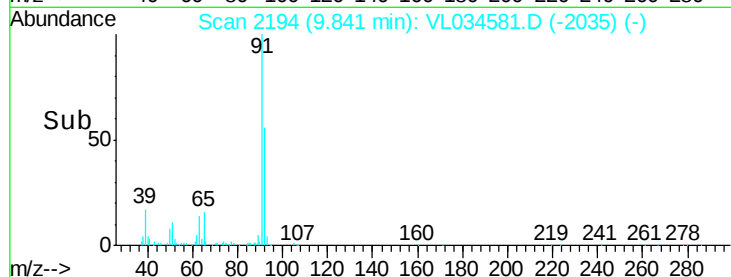
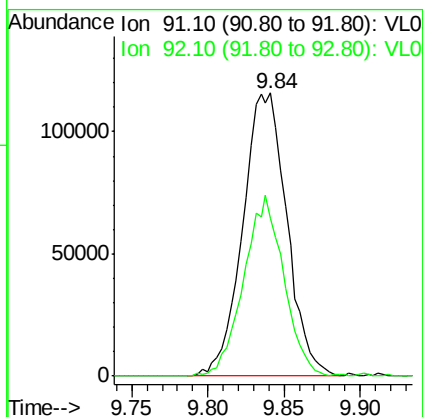
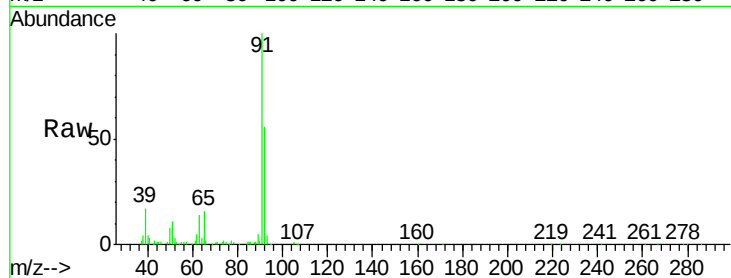
Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. 0.01 min

Lab File: VL034581.D

Acq: 4 Feb 2020 15:55

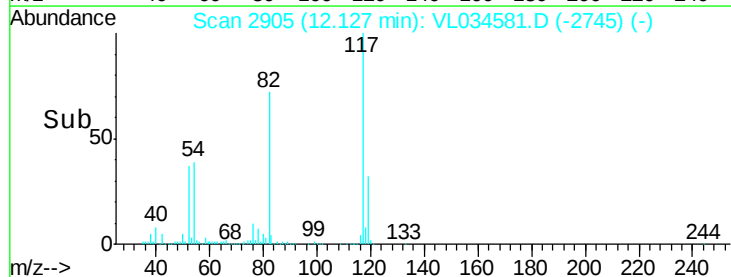
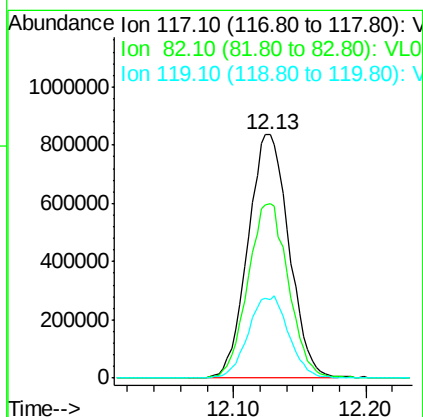
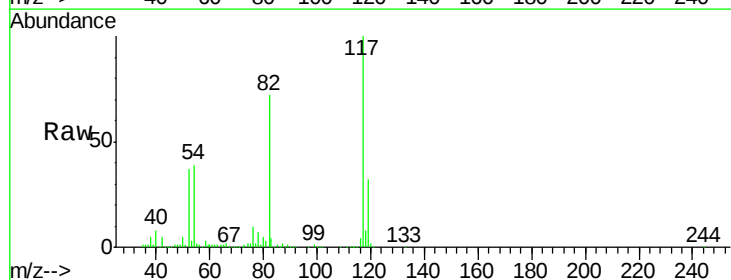
Tgt Ion: 117 Resp: 1795834

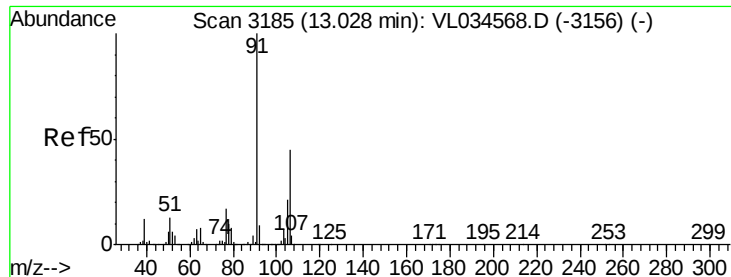
Ion Ratio Lower Upper

117 100

82 71.1 54.2 81.4

119 33.2 26.1 39.1





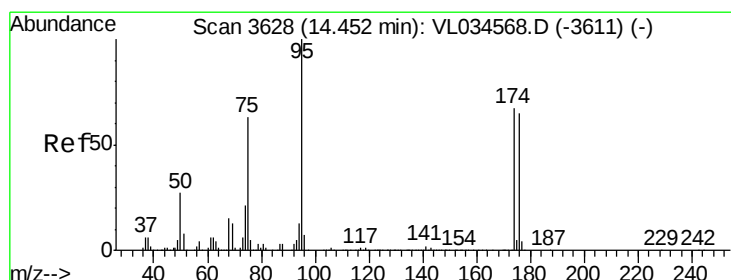
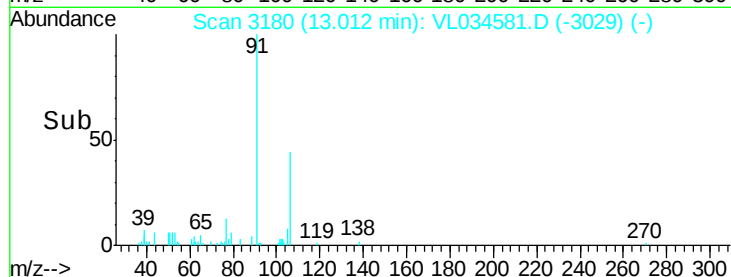
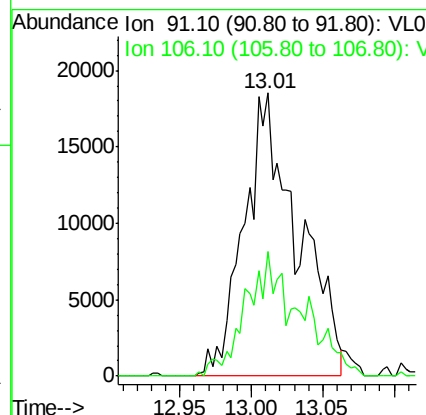
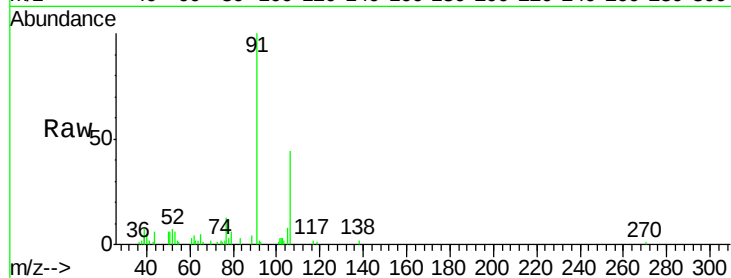
#59
m/p-Xylene
Concen: 0.228 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.02 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion: 91 Resp: 48517
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.561 ppbv
RT: 14.46 min Scan# 3631
Delta R.T. 0.01 min
Lab File: VL034581.D
Acq: 4 Feb 2020 15:55

Tgt Ion: 95 Resp: 1602872
Ion Ratio Lower Upper
95 100
174 64.4 52.3 78.5
175 4.5 3.8 5.6

