

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034740.D
 Acq On : 28 Feb 2020 17:08
 Operator : SY/AP
 Sample : L1662-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AAS-ROOFTOP

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:22 PM

Quant Time: Mar 02 05:38:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1009078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2070421	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2046600	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1766310	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	46445	0.292	ppbv	99
3) Chlorodifluoromethane	2.96	51	34462m	0.316	ppbv	
4) Chloromethane	3.11	50	33717	0.553	ppbv	96
9) Propene	2.99	41	65516m	1.439	ppbv	
11) Trichlorofluoromethane	3.93	101	41839	0.300	ppbv #	76
13) Ethanol	3.58	45	338427	23.534	ppbv	96
15) Acetone	3.83	43	503753m	4.381	ppbv	
19) Isopropyl Alcohol	3.96	45	91605	1.337	ppbv #	87
20) Methylene Chloride	4.33	84	172951	4.044	ppbv	96
26) Hexane	5.68	57	104349	1.112	ppbv #	43
34) 2-Butanone	5.25	43	34635	0.266	ppbv	96
35) Carbon Tetrachloride	7.02	117	10902m	0.079	ppbv	
36) Benzene	6.91	78	48048m	0.269	ppbv	
53) Toluene	9.83	91	451020	2.371	ppbv	98

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

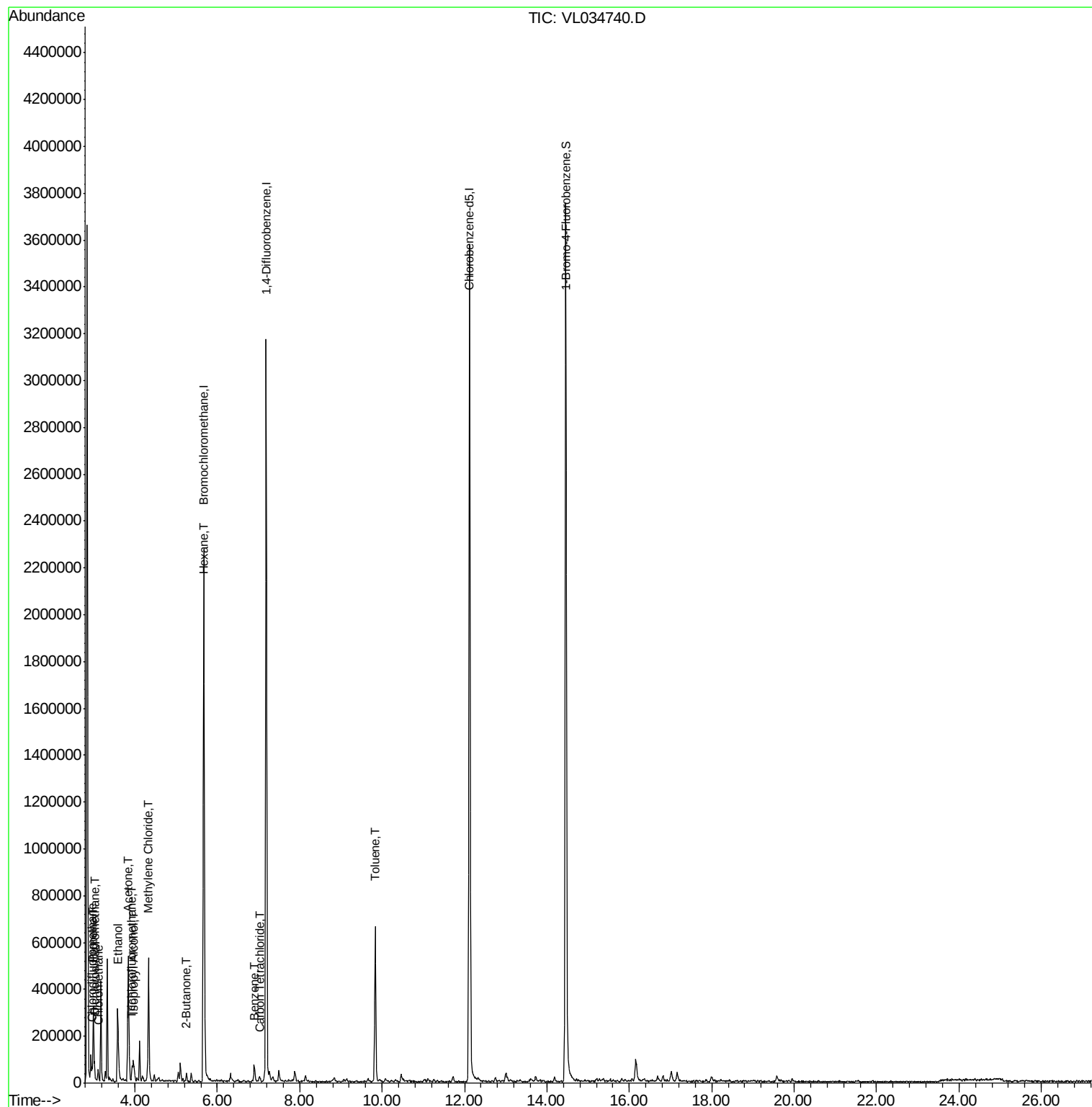
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022820\
Data File : VL034740.D
Acq On : 28 Feb 2020 17:08
Operator : SY/AP
Sample : L1662-10
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

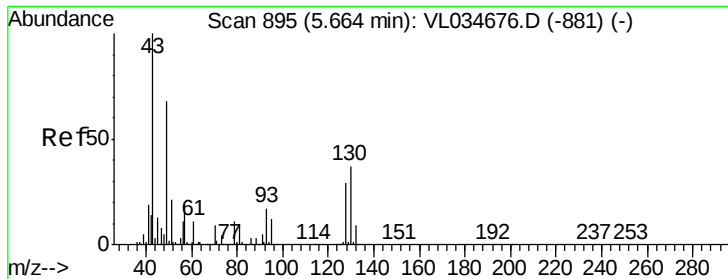
Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Manual Integrations
APPROVED

MMDadoda
3/2/2020 1:01:22 PM

Quant Time: Mar 02 05:38:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





#1

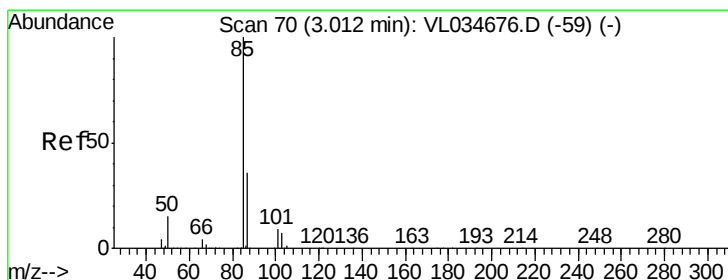
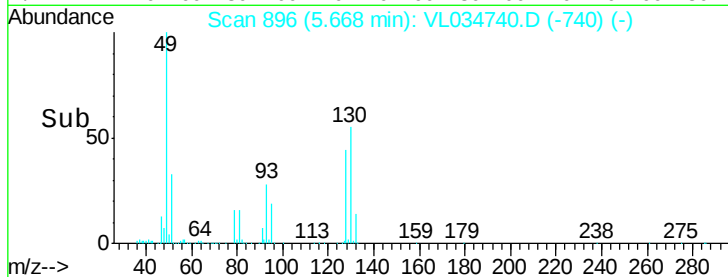
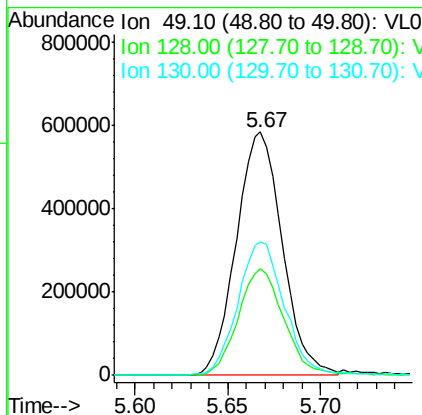
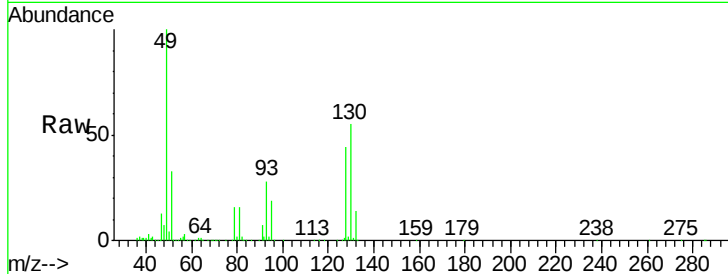
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. 0.00 min
 Lab File: VL034740.D
 Acq: 28 Feb 2020 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 AAS-ROOFTOP

Tot Ion: 49 Resp: 1009078
 Ion Ratio Lower Upper
 49 100
 128 44.1 21.6 65.0
 130 56.3 27.7 83.1

Manual Integrations
 APPROVED

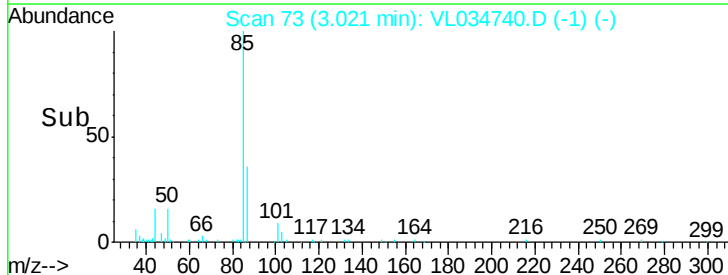
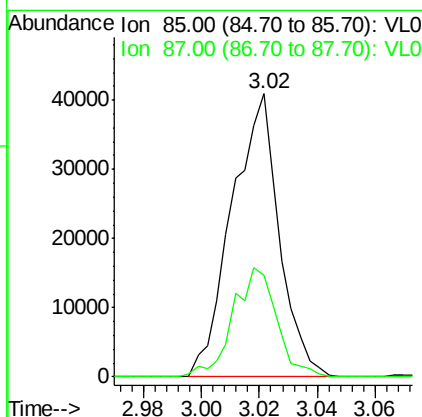
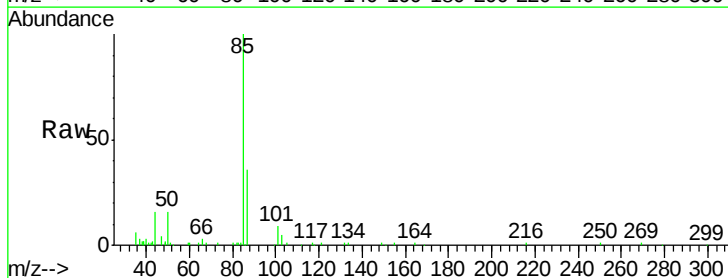
MMDadoda
 3/2/2020 1:01:22 PM

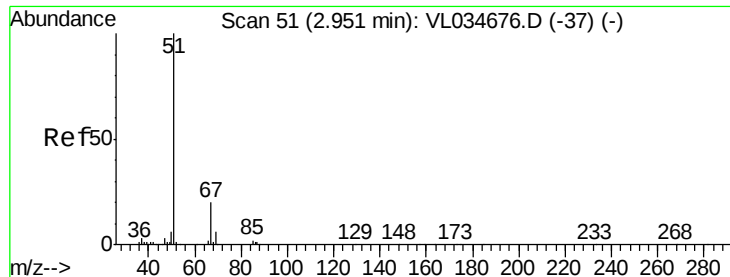


#2

Dichlorodifluoromethane
 Concen: 0.292 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: VL034740.D
 Acq: 28 Feb 2020 17:08

Tgt Ion: 85 Resp: 46445
 Ion Ratio Lower Upper
 85 100
 87 35.9 29.2 43.8





#3

Chlorodifluoromethane

Concen: 0.316 ppbv m

RT: 2.96 min Scan# 53

Delta R.T. 0.01 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

AAS-ROOFTOP

Tot Ion: 51 Resp: 34462

Ion Ratio Lower Upper

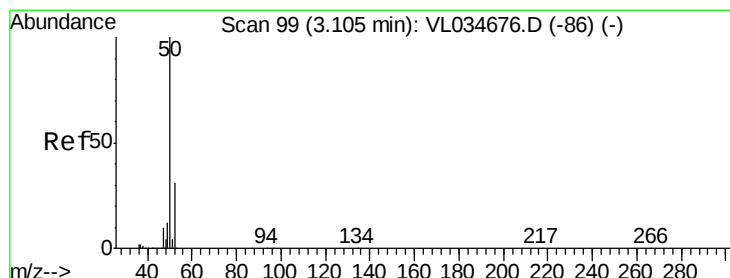
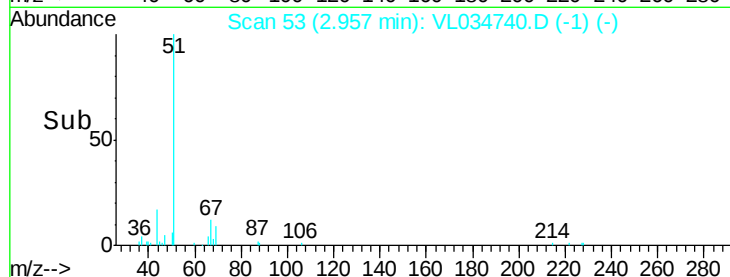
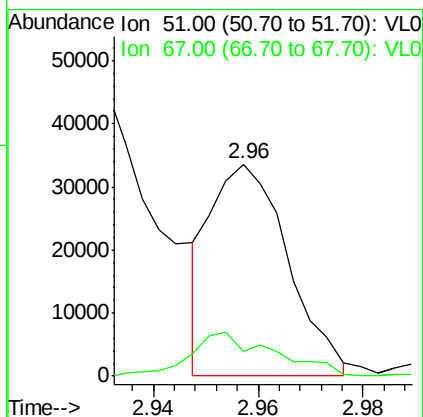
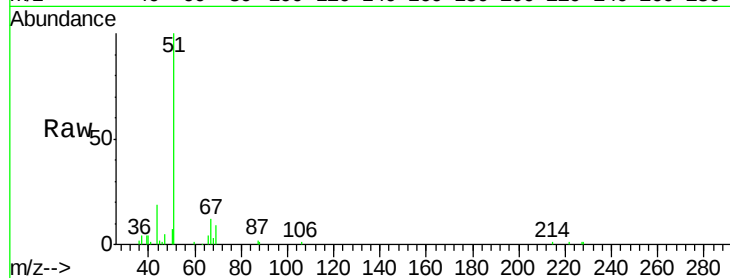
51 100

67 2.1 15.5 23.3#

Manual Integrations
APPROVED

MMDadoda

3/2/2020 1:01:22 PM



#4

Chloromethane

Concen: 0.553 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034740.D

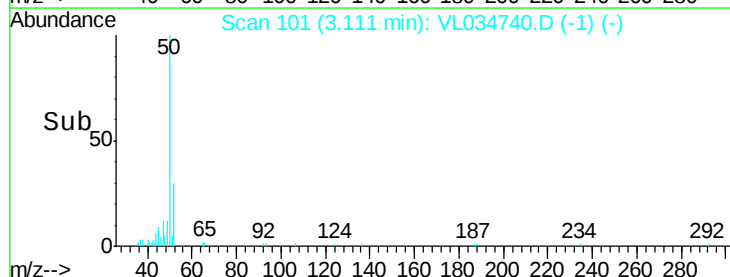
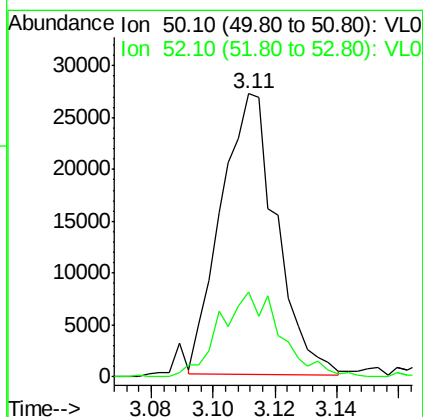
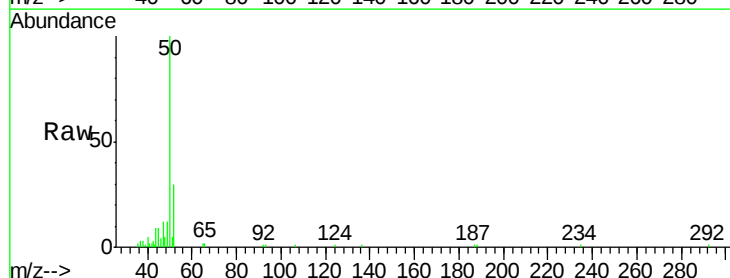
Acq: 28 Feb 2020 17:08

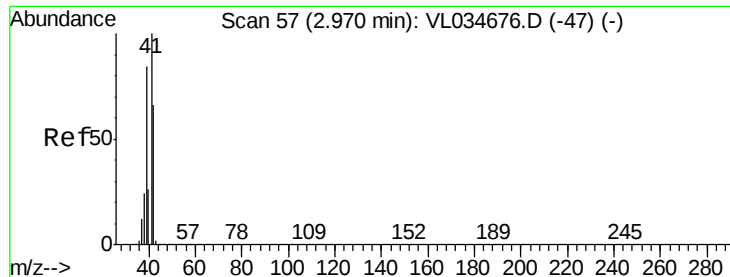
Tgt Ion: 50 Resp: 33717

Ion Ratio Lower Upper

50 100

52 29.1 25.0 37.4





#9

Propene

Concen: 1.439 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.02 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

AAS-ROOFTOP

Tot Ion: 41 Resp: 65516

Ion Ratio Lower Upper

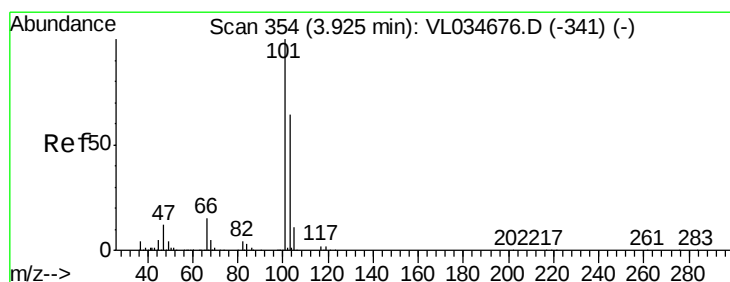
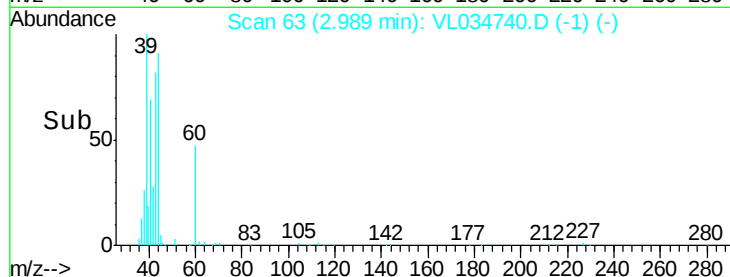
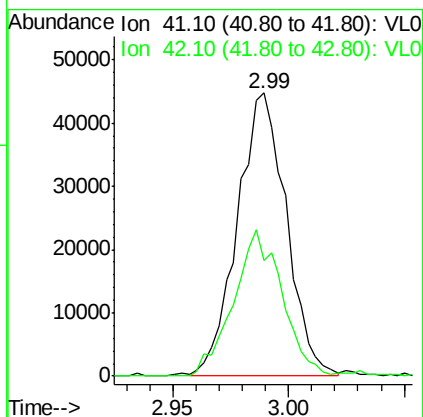
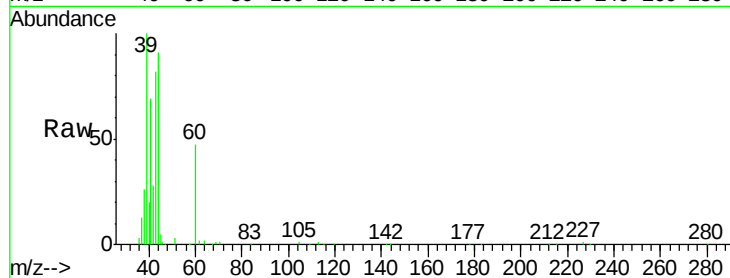
41 100

42 103.1 54.9 82.3#

Manual Integrations
APPROVED

MMDadoda

3/2/2020 1:01:22 PM



#11

Trichlorofluoromethane

Concen: 0.300 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.01 min

Lab File: VL034740.D

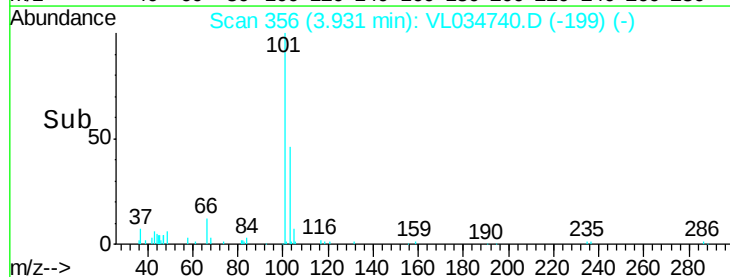
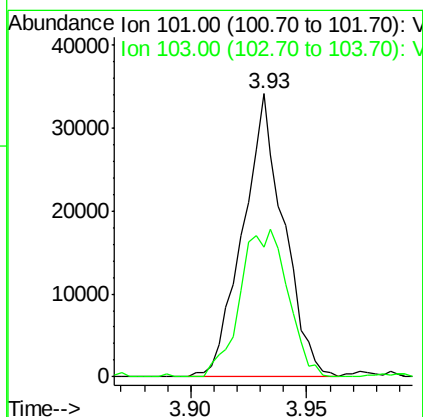
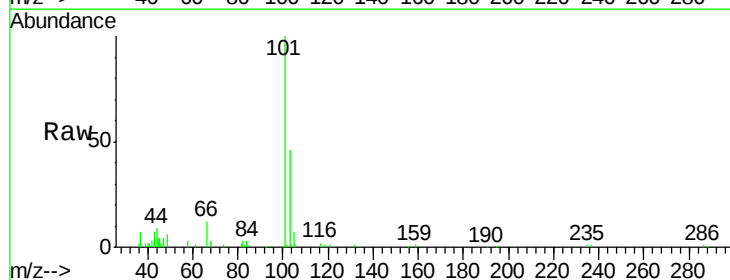
Acq: 28 Feb 2020 17:08

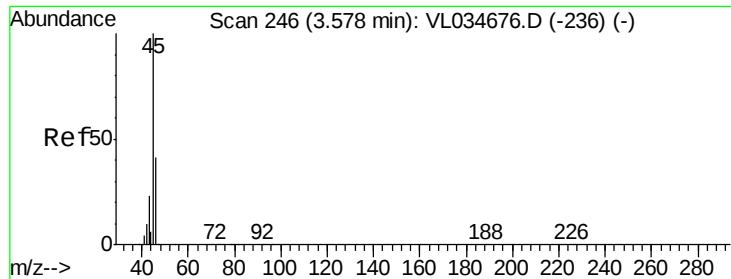
Tgt Ion: 101 Resp: 41839

Ion Ratio Lower Upper

101 100

103 45.2 51.2 76.8#





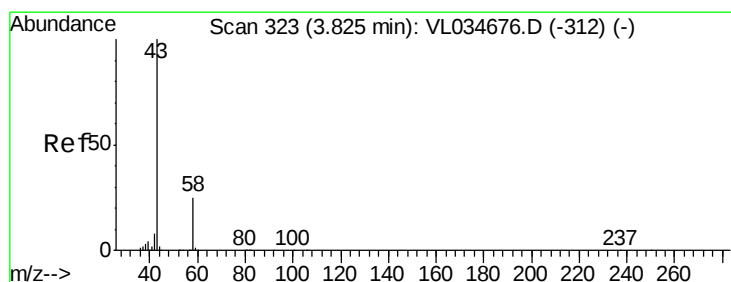
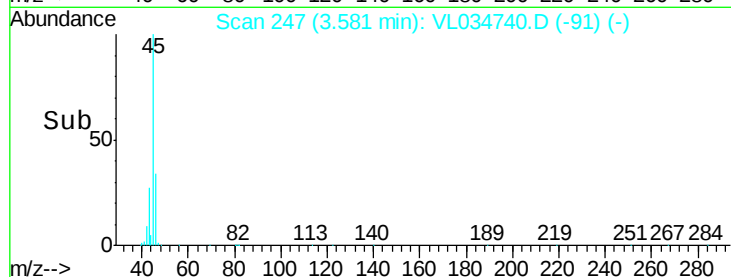
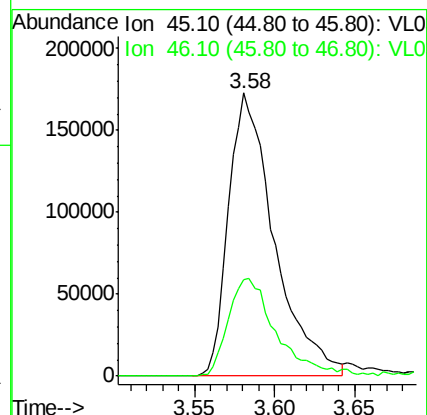
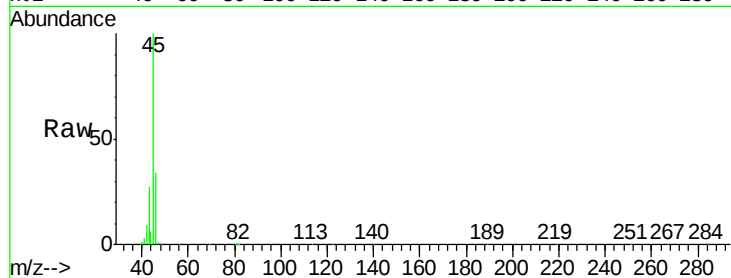
#13
Ethanol
Concen: 23.534 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.1	15.4	61.4

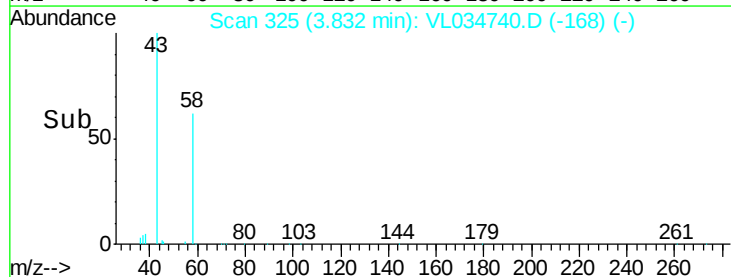
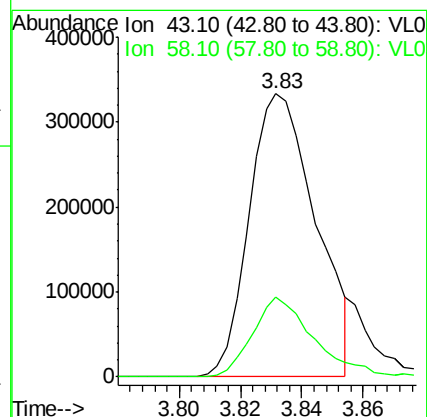
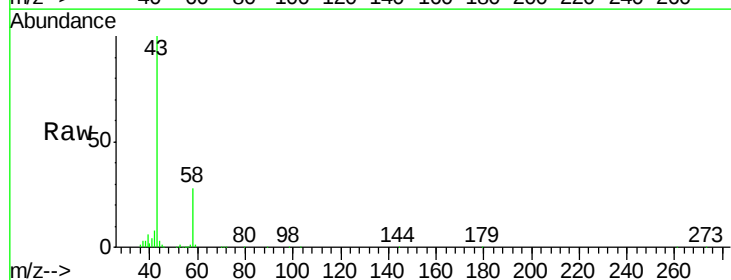
Manual Integrations
APPROVED

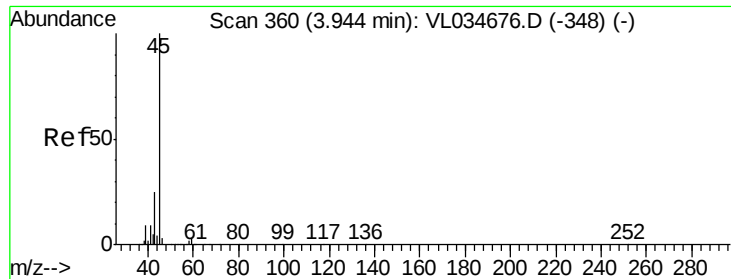
MMDadoda
3/2/2020 1:01:22 PM



#15
Acetone
Concen: 4.381 ppbv m
RT: 3.83 min Scan# 325
Delta R.T. 0.01 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.4	21.4	32.0





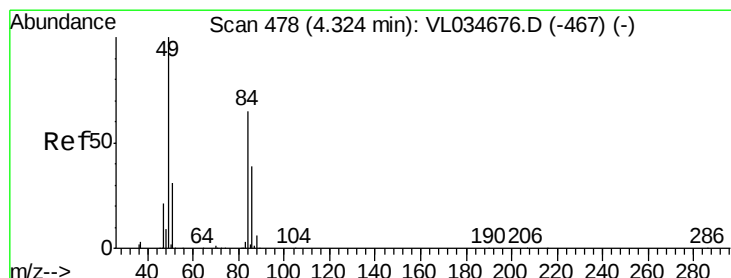
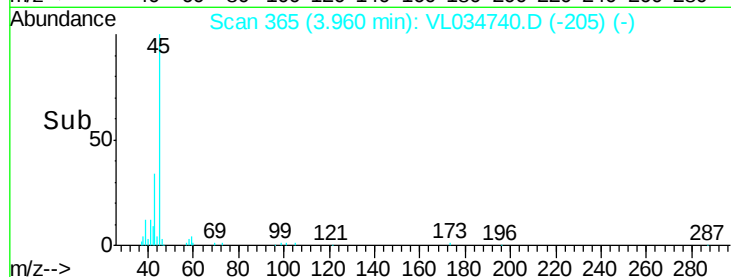
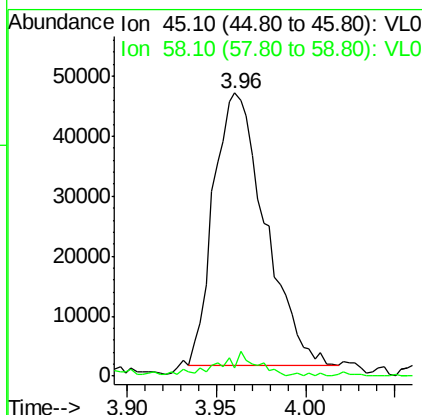
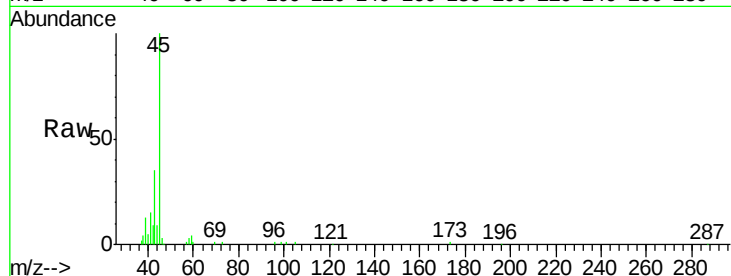
#19
Isopropyl Alcohol
Concen: 1.337 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.02 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tot Ion: 45 Resp: 91605
Ion Ratio Lower Upper
45 100
58 6.8 1.8 2.6#

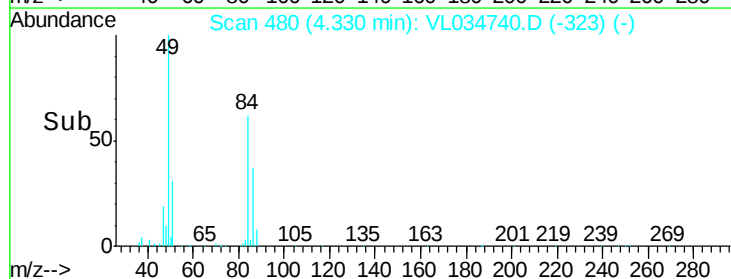
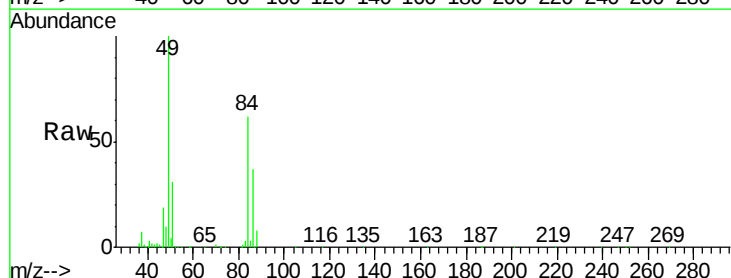
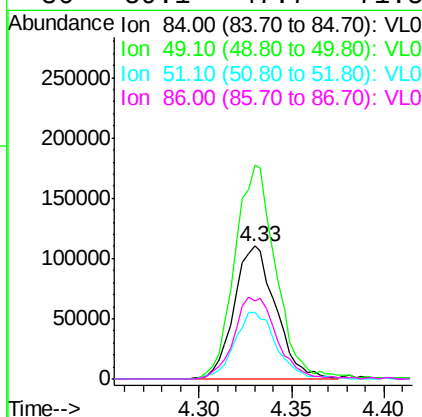
Manual Integrations
APPROVED

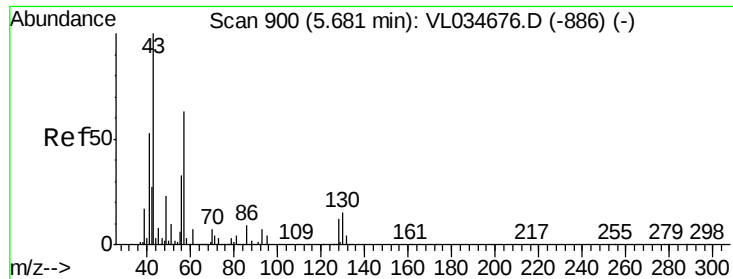
MMDadoda
3/2/2020 1:01:22 PM



#20
Methylene Chloride
Concen: 4.044 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion: 84 Resp: 172951
Ion Ratio Lower Upper
84 100
49 161.2 122.8 184.2
51 49.7 38.6 58.0
86 59.1 47.7 71.5





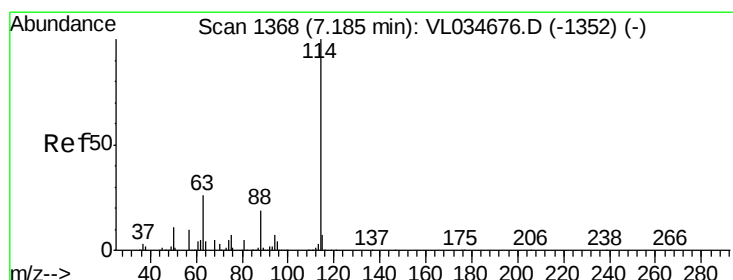
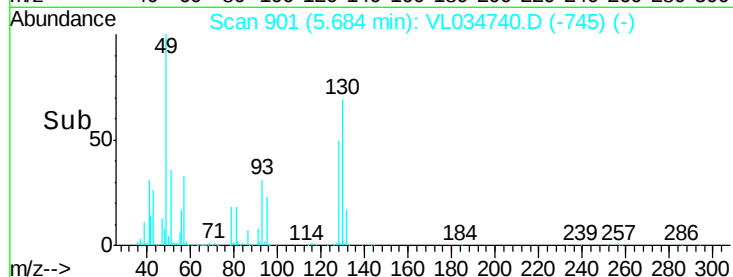
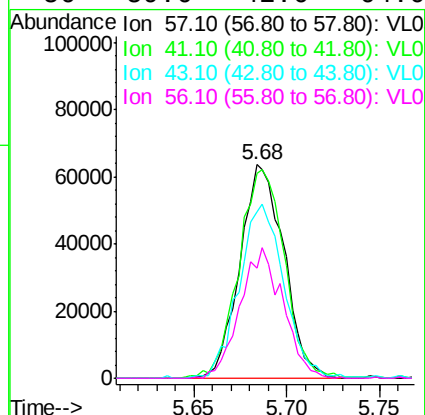
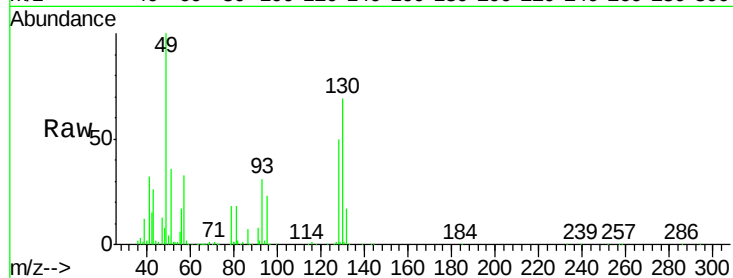
#26
Hexane
Concen: 1.112 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tot Ion	Ratio	Lower	Upper
57	100		
41	102.1	70.3	105.5
43	83.9	177.0	265.4#
56	59.6	42.6	64.0

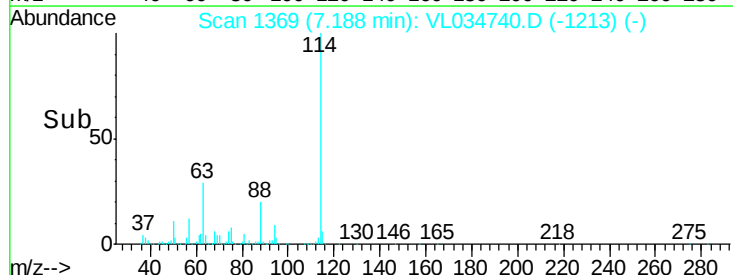
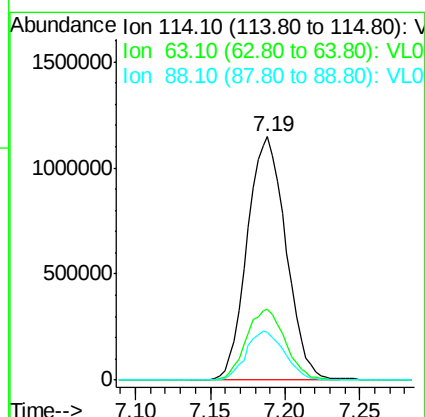
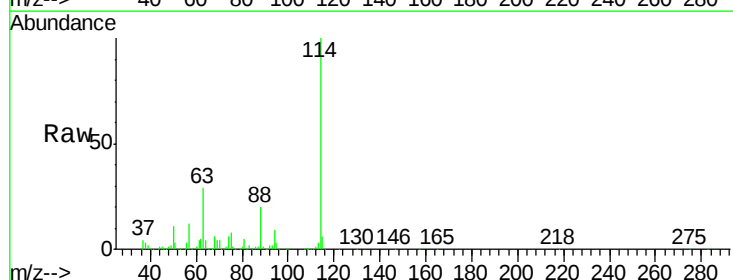
Manual Integrations
APPROVED

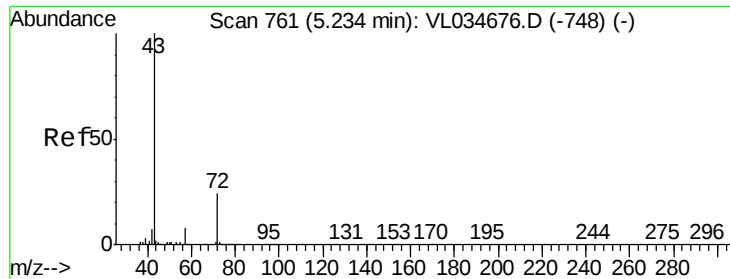
MMDadoda
3/2/2020 1:01:22 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.5	22.9	34.3
88	19.9	15.8	23.6





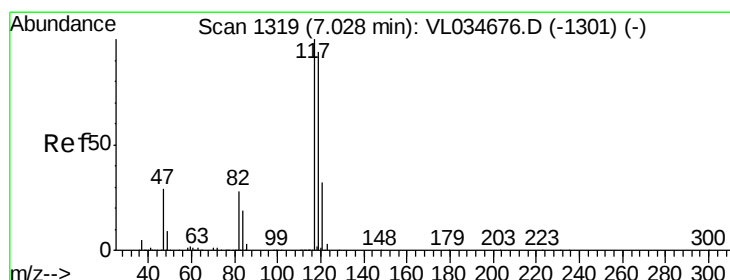
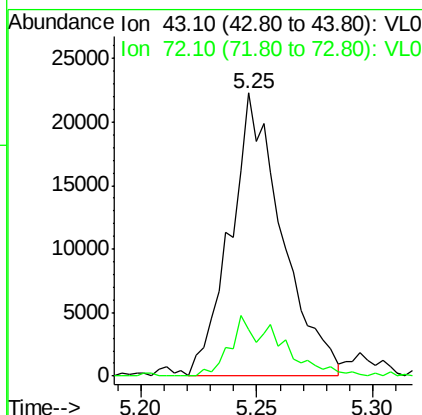
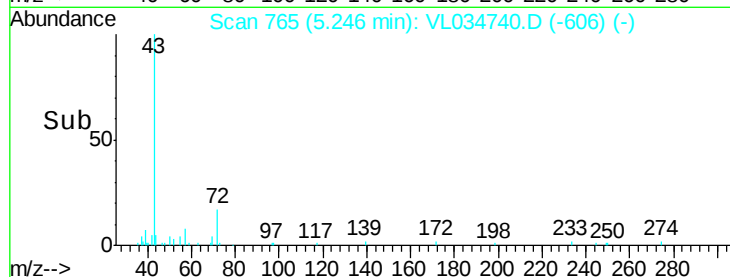
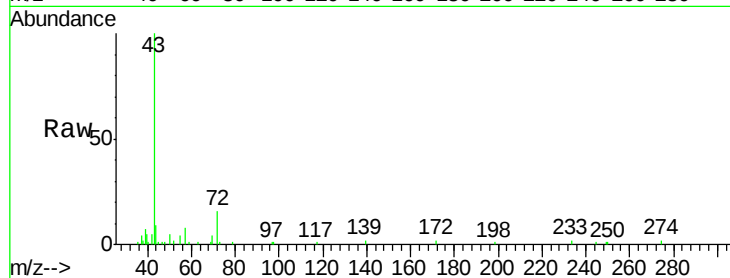
#34
2-Butanone
Concen: 0.266 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tot Ion	43	Resp	34635
Ion Ratio	Lower	Upper	
43	100		
72	20.7	18.2	27.2

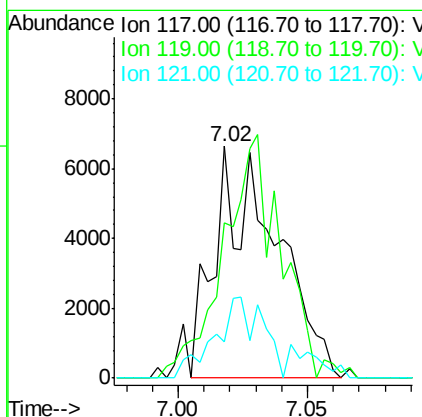
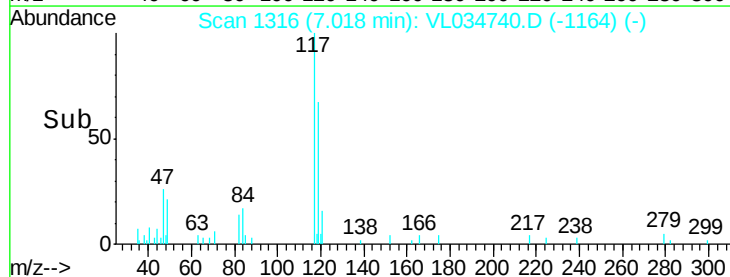
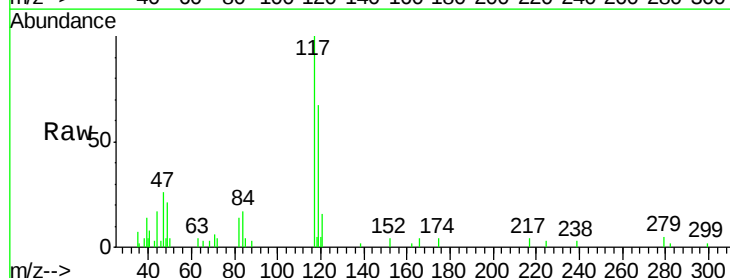
Manual Integrations
APPROVED

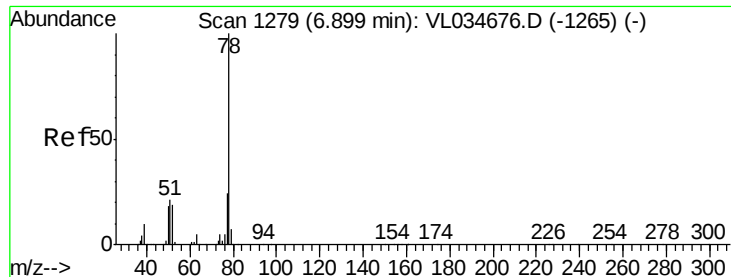
MMDadoda
3/2/2020 1:01:22 PM



#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion	117	Resp	10902
Ion Ratio	Lower	Upper	
117	100		
119	67.2	75.5	113.3#
121	15.5	25.4	38.0#





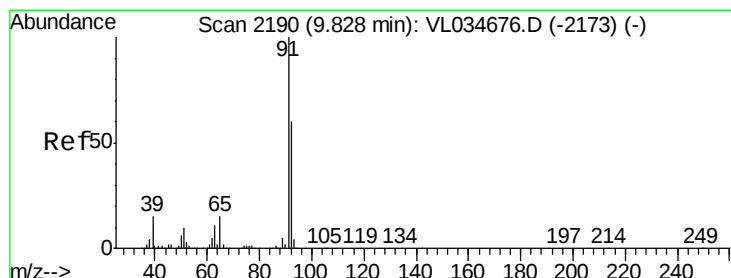
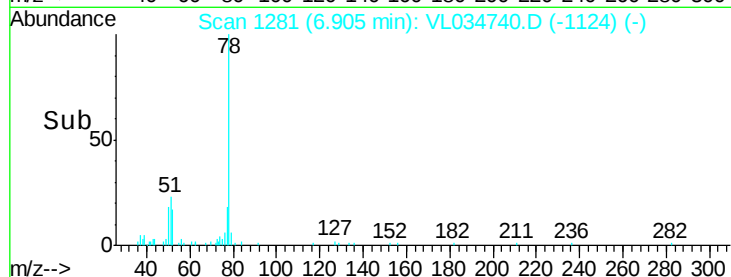
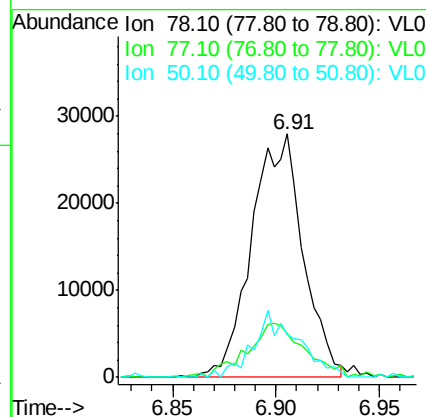
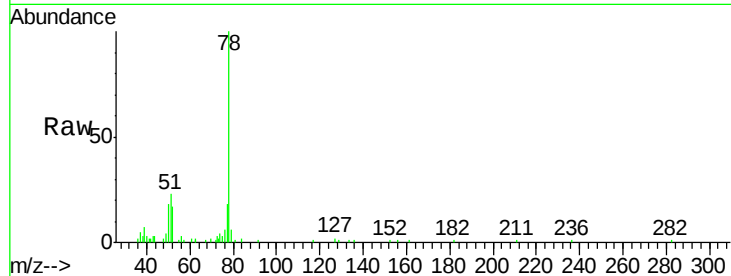
#36
Benzene
Concen: 0.269 ppbv m
RT: 6.91 min Scan# 1281
Delta R.T. 0.01 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tot Ion	Ratio	Lower	Upper
78	100		
77	17.9	19.5	29.3#
50	17.5	14.6	21.8

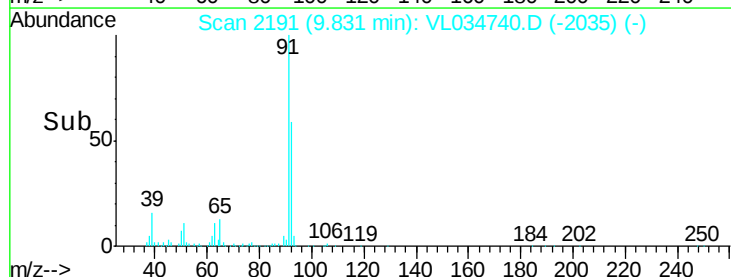
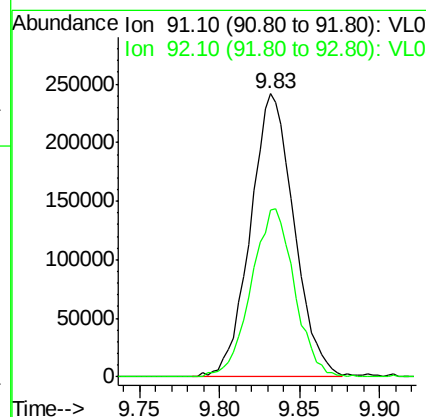
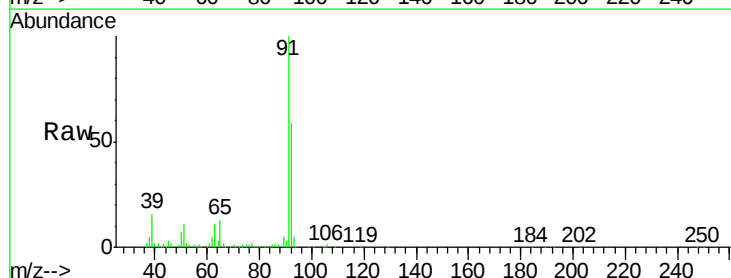
Manual Integrations
APPROVED

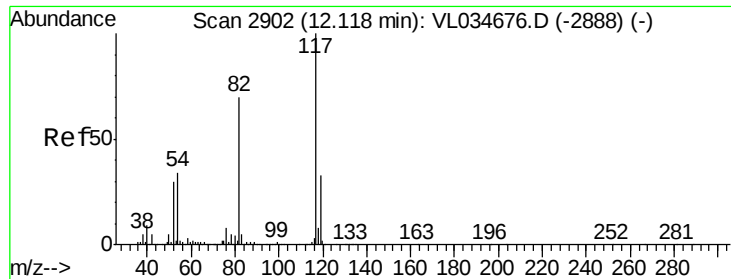
MMDadoda
3/2/2020 1:01:22 PM



#53
Toluene
Concen: 2.371 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.5	72.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

AAS-ROOFTOP

Tot Ion:117 Resp: 2046600

Ion Ratio Lower Upper

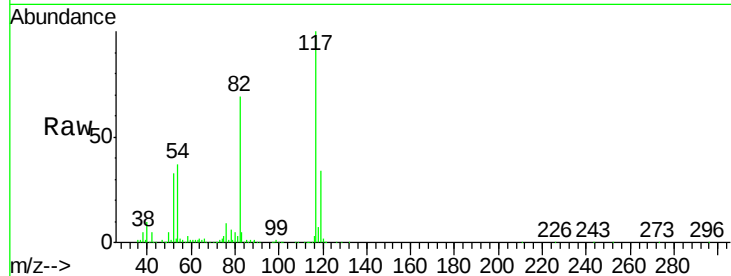
117 100

82 71.4 54.1 81.1

119 32.7 27.6 41.4

Manual Integrations
APPROVED

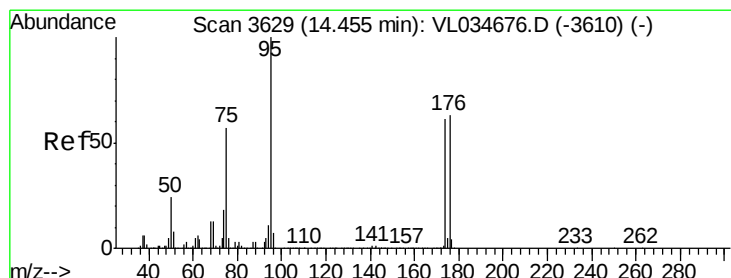
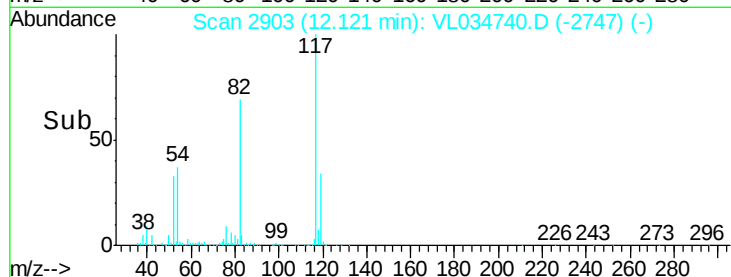
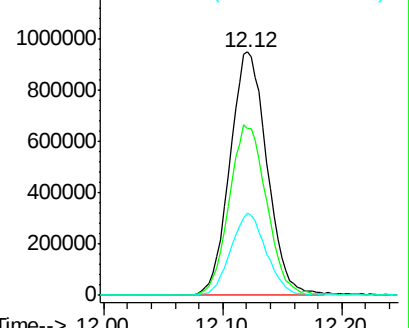
MMDadoda
3/2/2020 1:01:22 PM



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.525 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

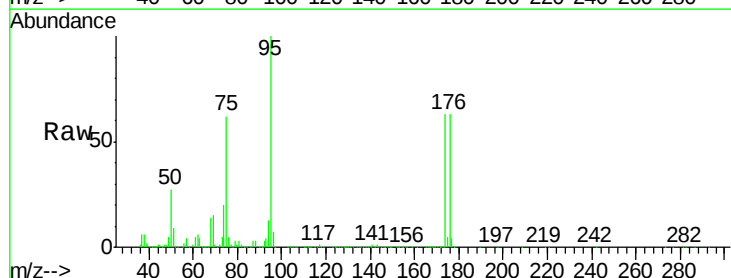
Tgt Ion: 95 Resp: 1766310

Ion Ratio Lower Upper

95 100

174 63.3 50.7 76.1

175 4.6 3.9 5.9



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

