

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032163.D
 Acq On : 30 Jun 2018 9:53
 Operator : SY/AP
 Sample : J3601-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACE

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:26:43 PM

Quant Time: Jul 02 12:07:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1406322	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3431706	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3565905	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.68	95	2652299	9.73	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	53465m	0.29	ppbv	
4) Chloromethane	3.23	50	45543m	0.50	ppbv	
9) Propene	3.11	41	28013	0.35	ppbv #	78
10) Heptane	8.34	43	43503	0.19	ppbv #	85
11) Trichlorofluoromethane	4.08	101	58308	0.29	ppbv	93
13) Ethanol	3.72	45	163948	6.75	ppbv	99
15) Acetone	3.97	43	707563	4.30	ppbv	94
19) Isopropyl Alcohol	4.11	45	54057m	0.40	ppbv	
20) Methylene Chloride	4.48	84	101033	1.68	ppbv	91
26) Hexane	5.86	57	140731	0.90	ppbv #	61
29) Chloroform	5.93	83	39682	0.17	ppbv	90
34) 2-Butanone	5.41	43	65830	0.30	ppbv	100
35) Carbon Tetrachloride	7.23	117	22828	0.10	ppbv	93
36) Benzene	7.10	78	33782m	0.10	ppbv	
37) 1,2-Dichloroethane	6.50	62	18392	0.11	ppbv	99
52) Tetrachloroethene	11.48	164	12725m	0.11	ppbv	
53) Toluene	10.04	91	700654	1.75	ppbv	99
58) Ethyl Benzene	12.96	91	143656	0.25	ppbv	95
59) m/p-Xylene	13.22	91	250690	0.54	ppbv	96
60) o-Xylene	13.95	91	109990	0.24	ppbv	96
74) 1,2,4-Trimethylbenzene	17.03	105	75156m	0.13	ppbv	

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

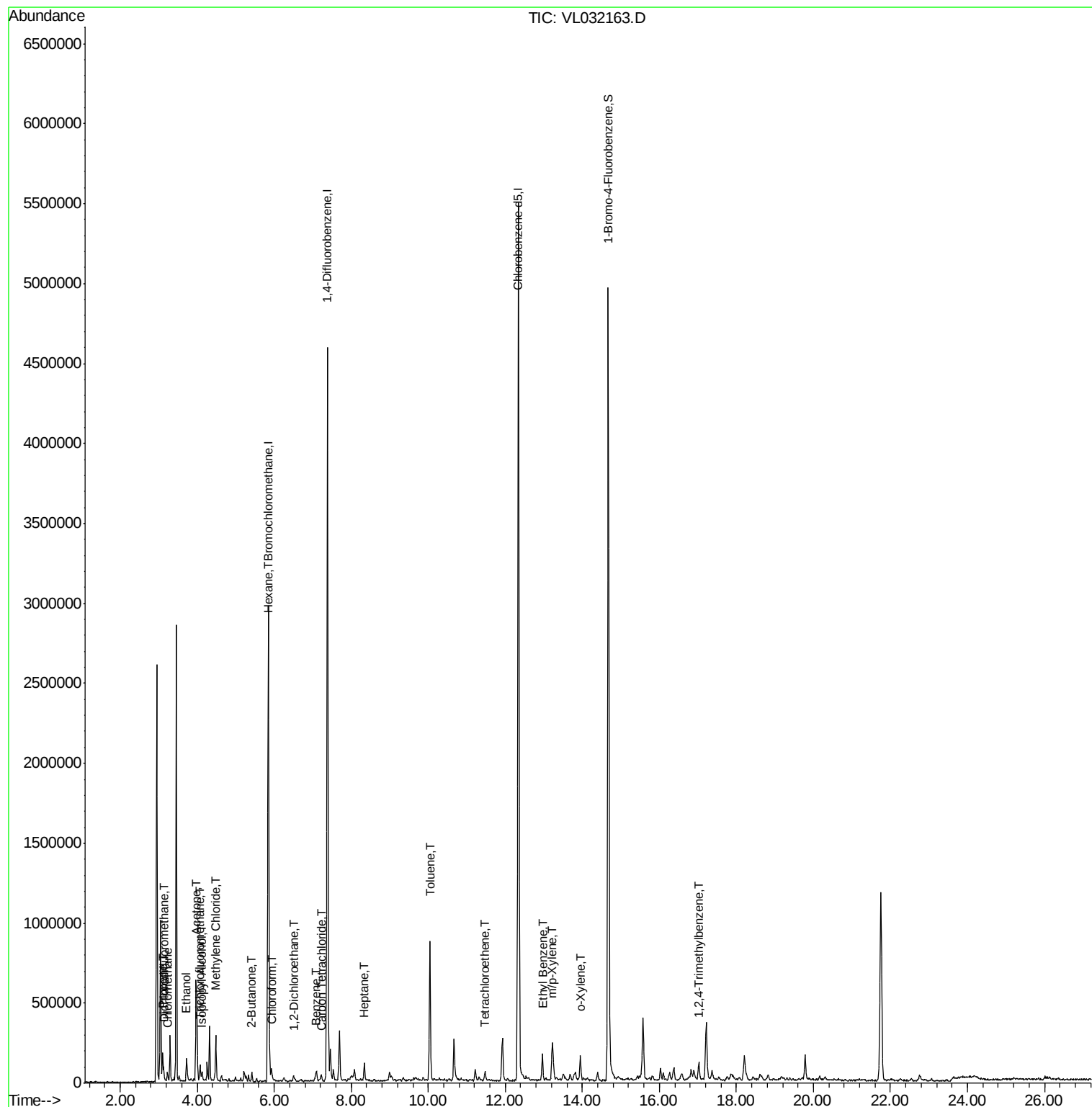
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
Data File : VL032163.D
Acq On : 30 Jun 2018 9:53
Operator : SY/AP
Sample : J3601-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

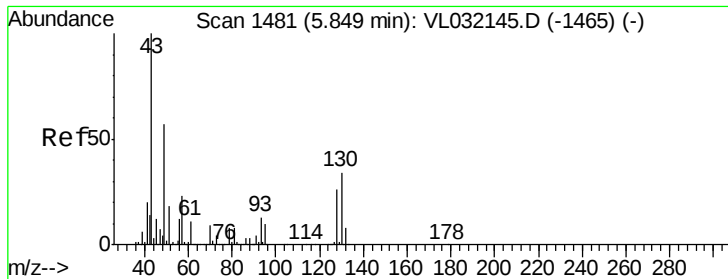
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-CRAWL-SPACE

Manual Integrations
APPROVED

MMDadoda
7/2/2018 4:26:43 PM

Quant Time: Jul 02 12:07:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

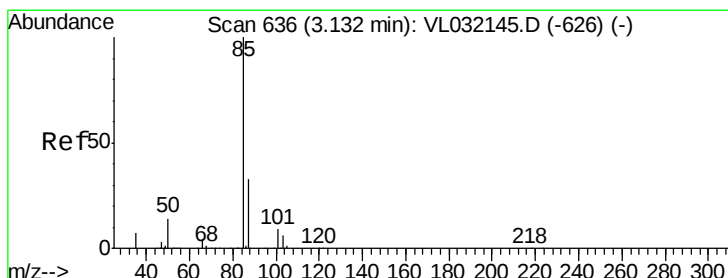
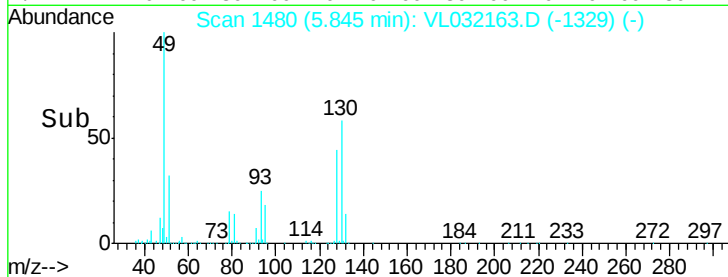
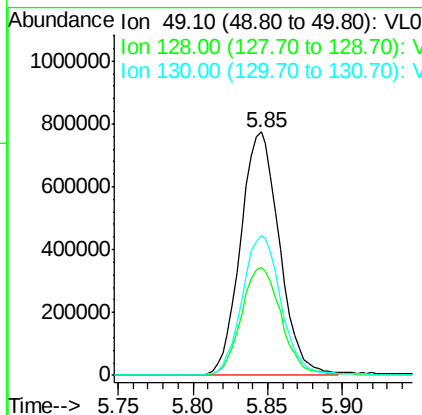
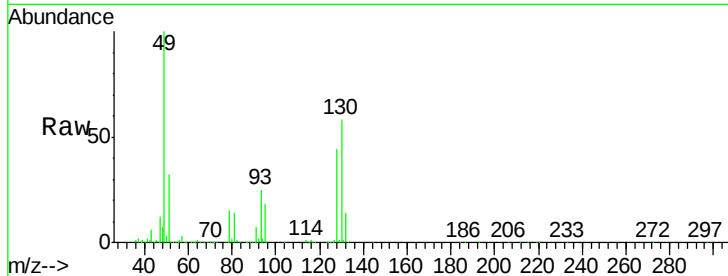
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.85 min Scan# 1480
 Delta R.T. -0.02 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACE

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.4	70.0
130	58.0	30.3	90.9

Manual Integrations
 APPROVED

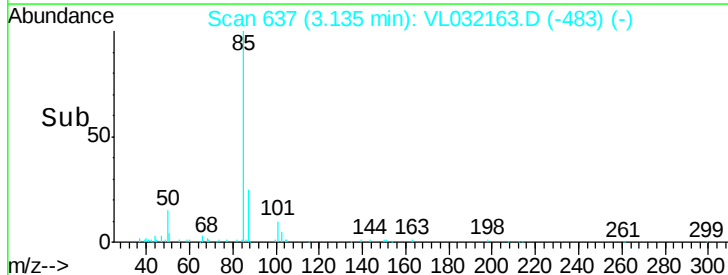
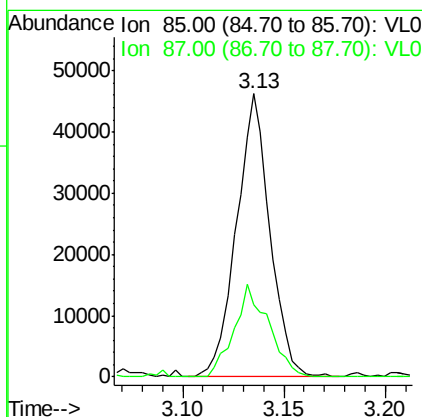
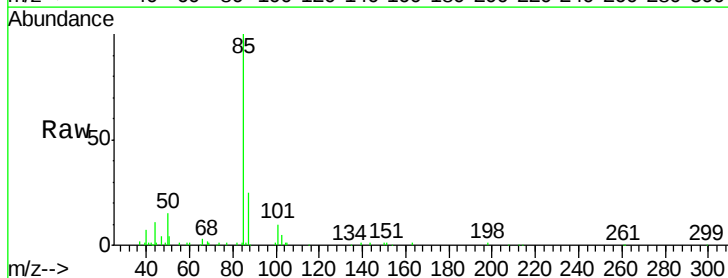
MMDadoda
 7/2/2018 4:26:43 PM

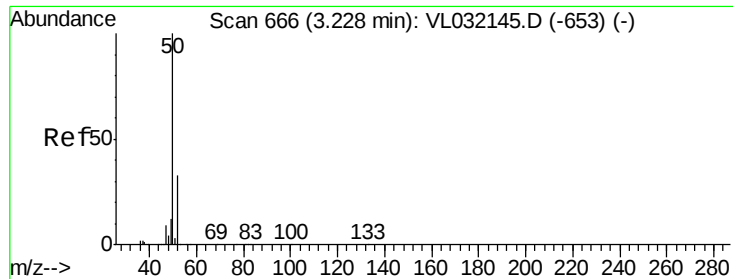


#2

Dichlorodifluoromethane
 Concen: 0.29 ppbv m
 RT: 3.13 min Scan# 637
 Delta R.T. -0.01 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	25.3	26.7	40.1#





#4

Chloromethane

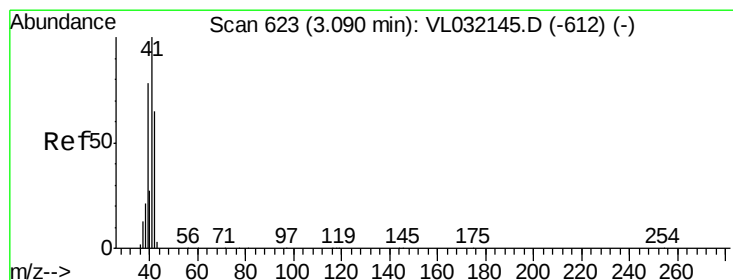
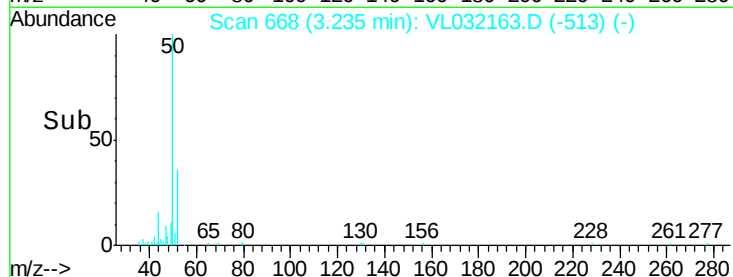
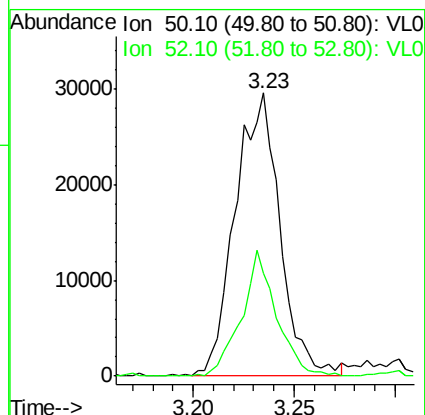
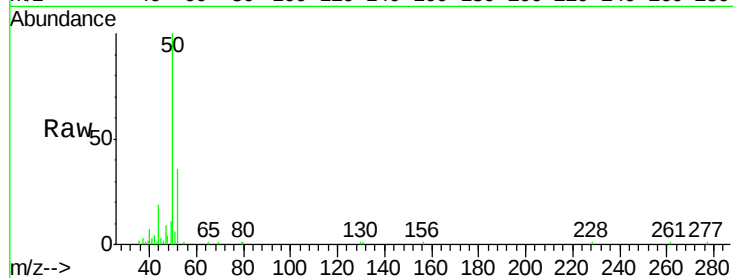
Concen: 0.50 ppbv m
RT: 3.23 min Scan# 668
Delta R.T. -0.00 min
Lab File: VL032163.D
Acq: 30 Jun 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-CRAWL-SPACE

Tot Ion: 50 Resp: 45543
Ion Ratio Lower Upper
50 100
52 36.2 26.0 39.0

Manual Integrations
APPROVED

MMDadoda
7/2/2018 4:26:43 PM

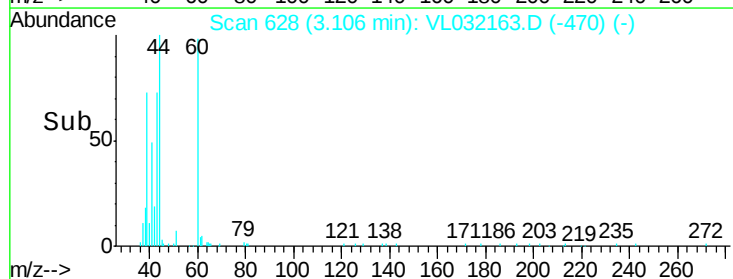
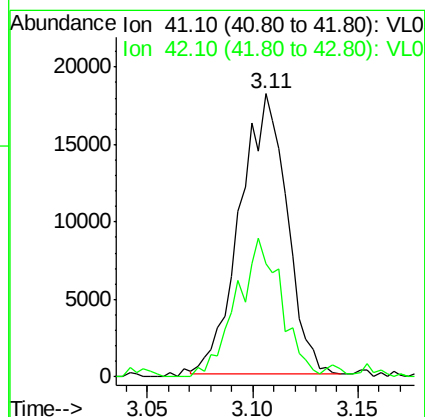
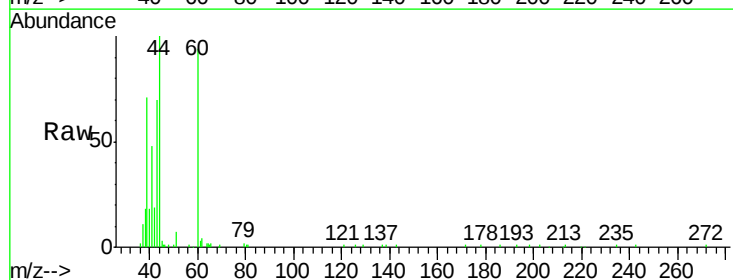


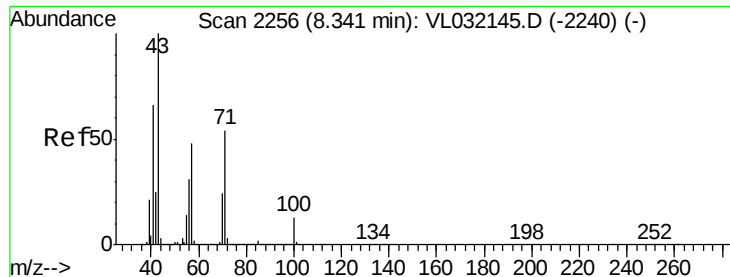
#9

Propene

Concen: 0.35 ppbv
RT: 3.11 min Scan# 628
Delta R.T. 0.01 min
Lab File: VL032163.D
Acq: 30 Jun 2018 9:53

Tgt Ion: 41 Resp: 28013
Ion Ratio Lower Upper
41 100
42 51.9 56.2 84.4#





#10

Heptane

Concen: 0.19 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-CRAWL-SPACE

Tot Ion: 43 Resp: 43503

Ion Ratio Lower Upper

43 100

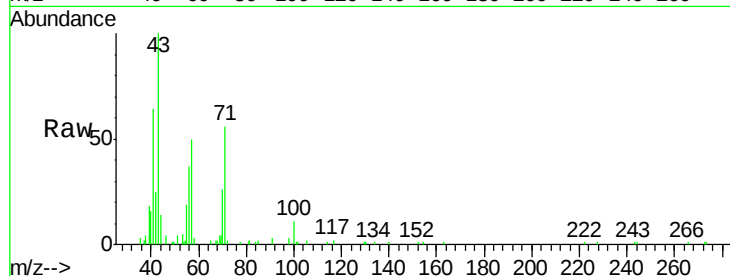
57 60.4 39.8 59.8#

Manual Integrations

APPROVED

MMDadoda

7/2/2018 4:26:43 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.34

25000

20000

15000

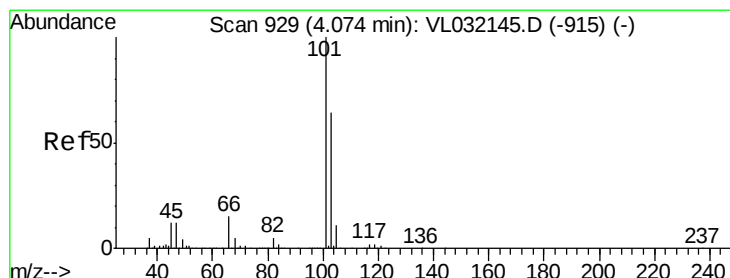
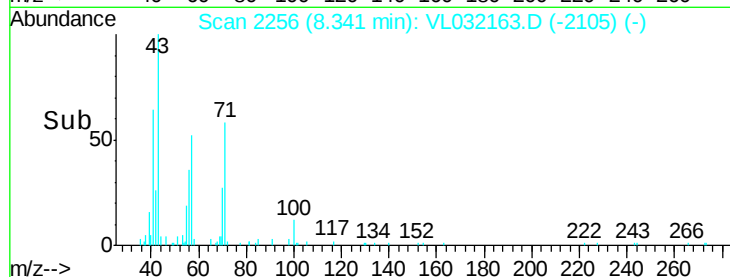
10000

5000

0

8.30 8.35 8.40

Time-->



#11

Trichlorofluoromethane

Concen: 0.29 ppbv

RT: 4.08 min Scan# 930

Delta R.T. -0.01 min

Lab File: VL032163.D

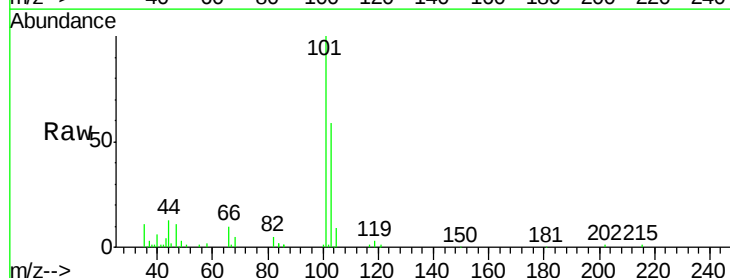
Acq: 30 Jun 2018 9:53

Tgt Ion: 101 Resp: 58308

Ion Ratio Lower Upper

101 100

103 58.5 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.08

50000

40000

30000

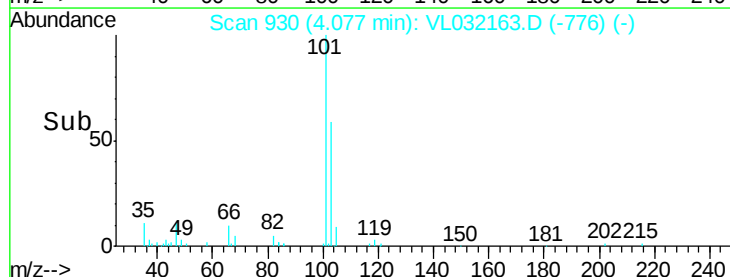
20000

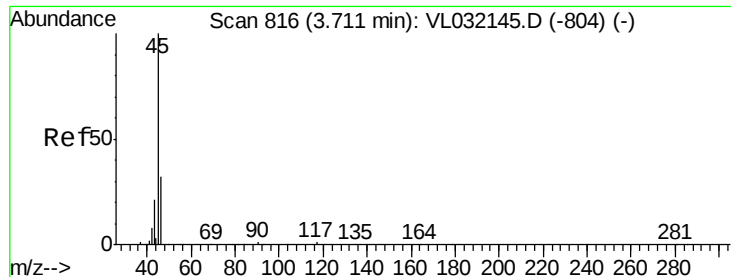
10000

0

4.05 4.10

Time-->





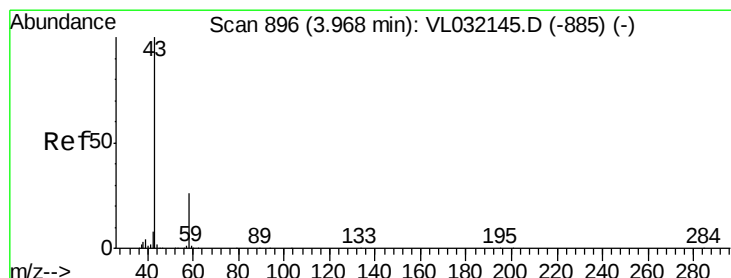
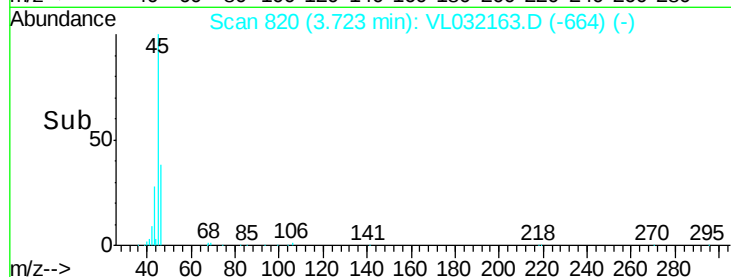
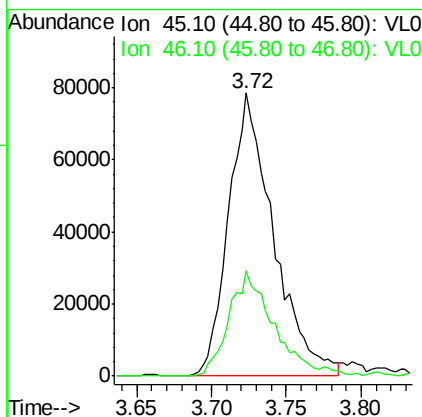
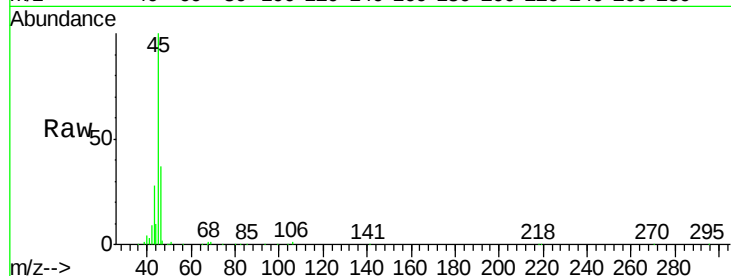
#13
Ethanol
Concen: 6.75 ppbv
RT: 3.72 min Scan# 820
Delta R.T. 0.00 min
Lab File: VL032163.D
Acq: 30 Jun 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-CRAWL-SPACE

Tot Ion	45	Resp	163948
Ion Ratio	100	Lower	Upper
46	37.2	14.6	58.4

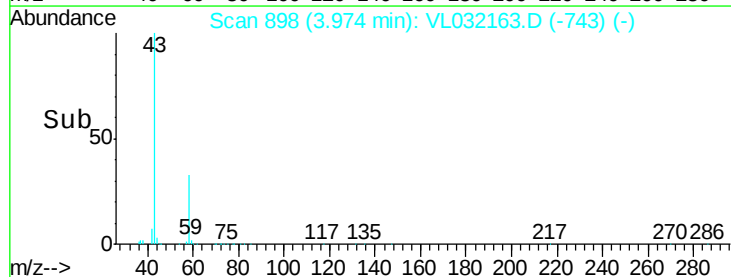
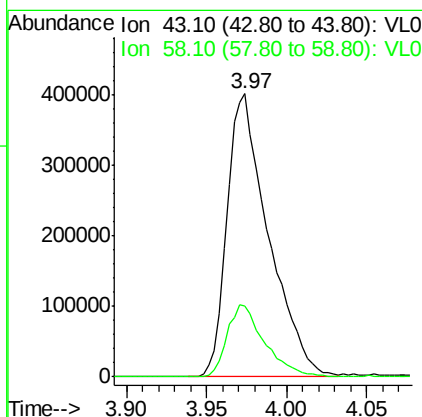
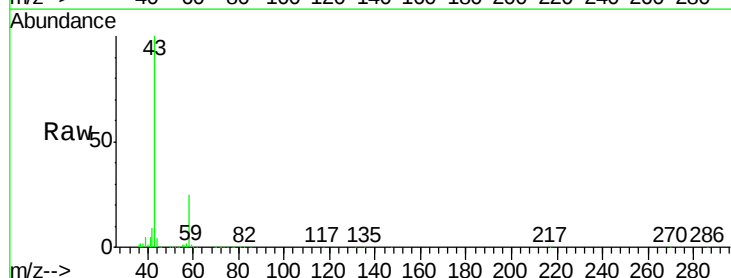
Manual Integrations
APPROVED

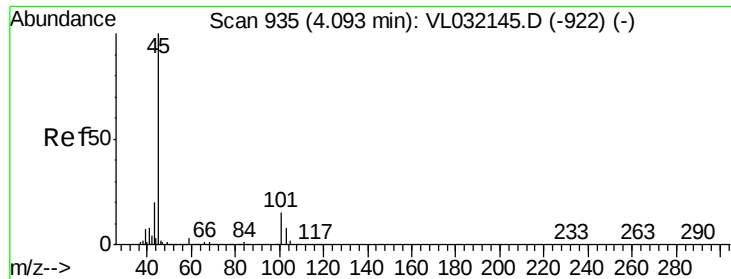
MMDadoda
7/2/2018 4:26:43 PM



#15
Acetone
Concen: 4.30 ppbv
RT: 3.97 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL032163.D
Acq: 30 Jun 2018 9:53

Tgt Ion	43	Resp	707563
Ion Ratio	100	Lower	Upper
58	23.4	21.4	32.0





#19

Isopropyl Alcohol

Concen: 0.40 ppbv m

RT: 4.11 min Scan# 941

Delta R.T. 0.01 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-CRAWL-SPACE

Tot Ion: 45 Resp: 54057

Ion Ratio Lower Upper

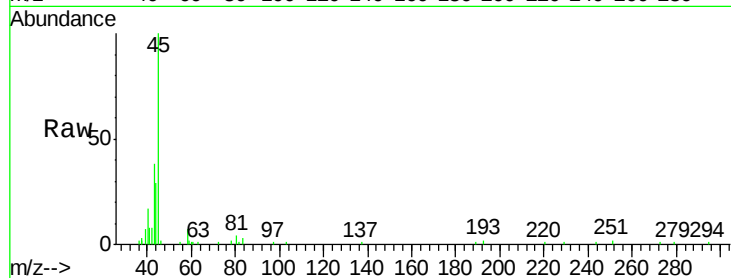
45 100

58 0.0 29.4 44.0#

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:26:43 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.11

25000

20000

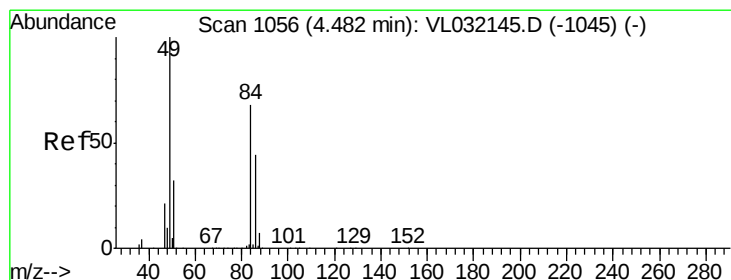
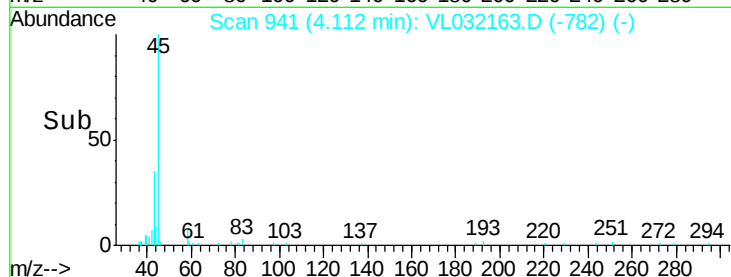
15000

10000

5000

0

Time-->



#20

Methylene Chloride

Concen: 1.68 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Tgt Ion: 84 Resp: 101033

Ion Ratio Lower Upper

84 100

49 139.6 119.6 179.4

51 40.1 36.3 54.5

86 53.7 49.7 74.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

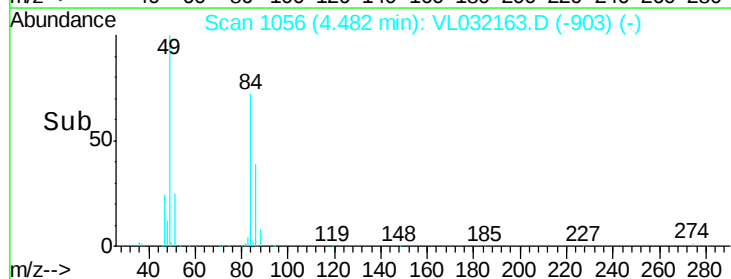
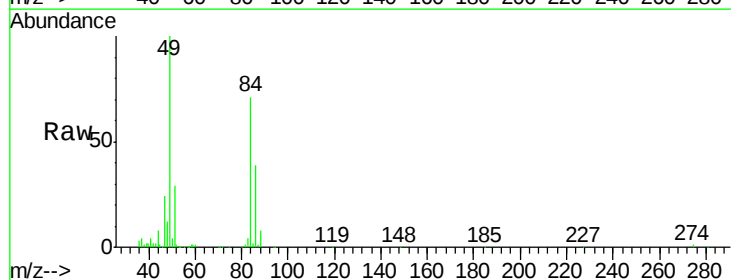
Ion 86.00 (85.70 to 86.70): VL0

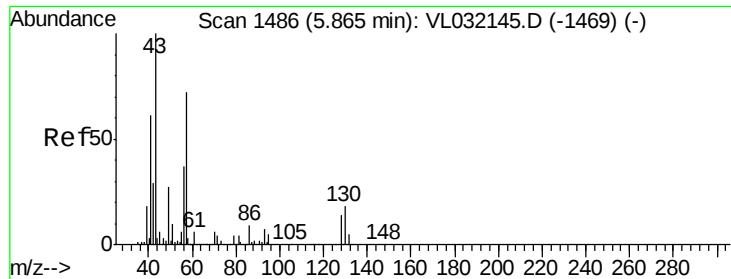
100000

50000

0

Time-->





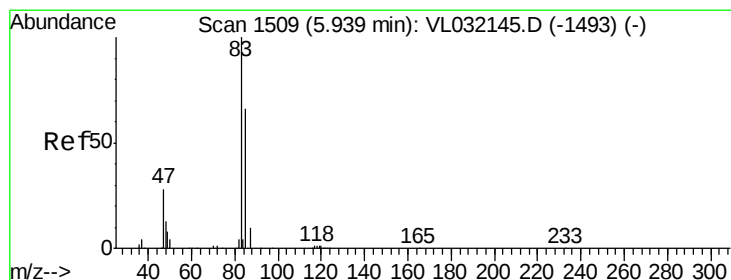
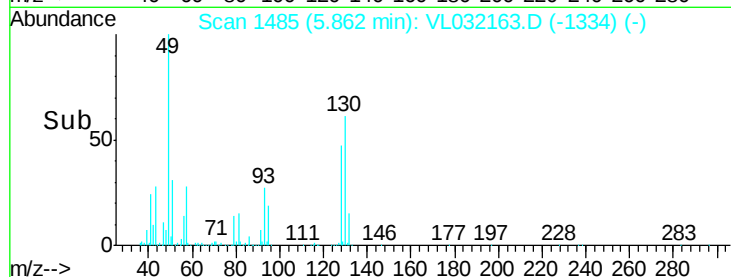
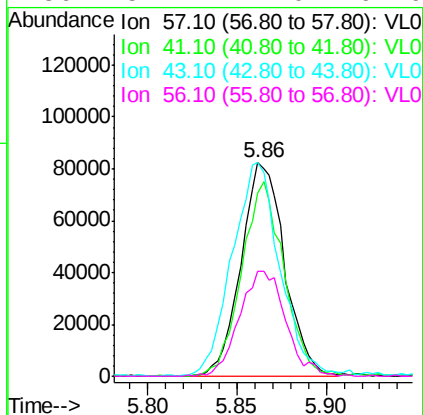
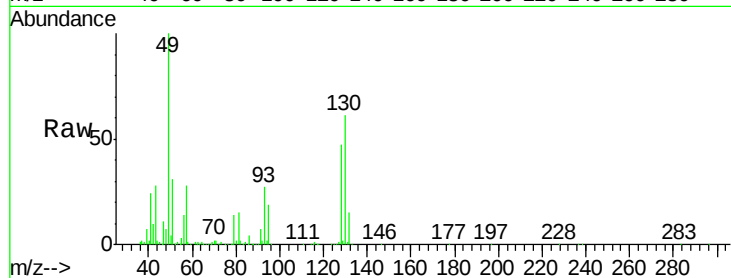
#26
Hexane
Concen: 0.90 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032163.D
Acq: 30 Jun 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-CRAWL-SPACE

Tot Ion	Ratio	Lower	Upper
57	100		
41	88.8	68.6	103.0
43	111.7	168.6	252.8#
56	52.1	41.0	61.6

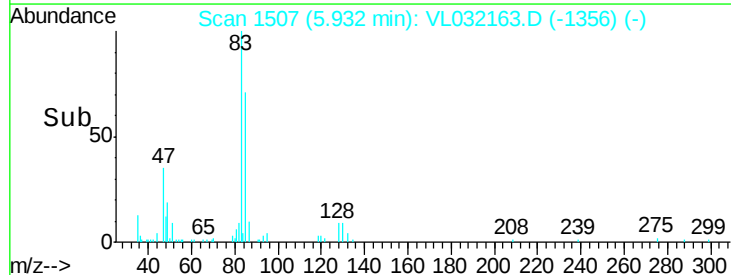
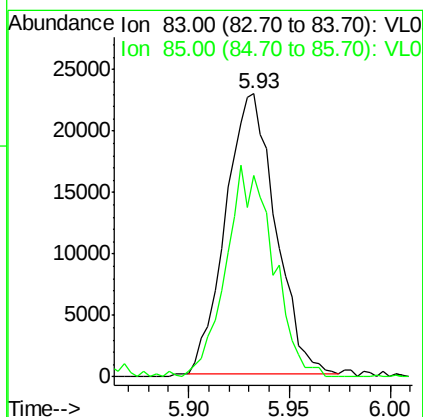
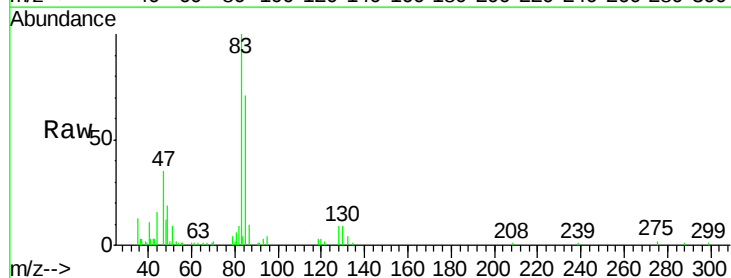
Manual Integrations
APPROVED

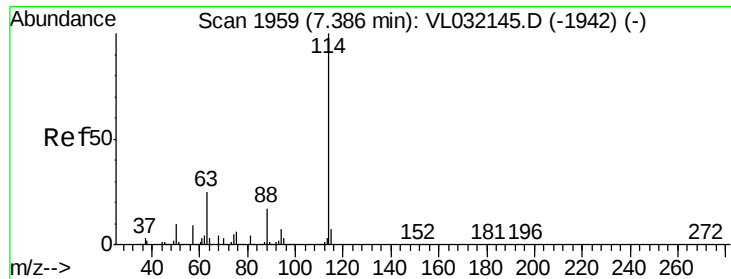
MMDadoda
7/2/2018 4:26:43 PM



#29
Chloroform
Concen: 0.17 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032163.D
Acq: 30 Jun 2018 9:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	72.1	51.6	77.4





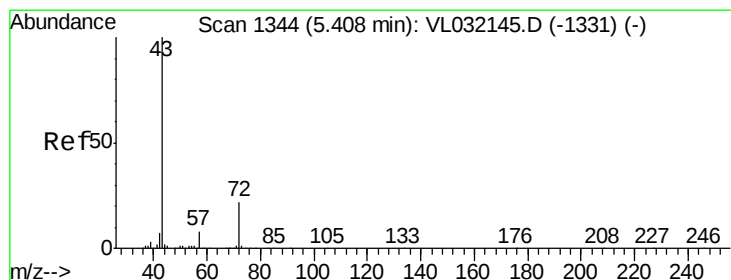
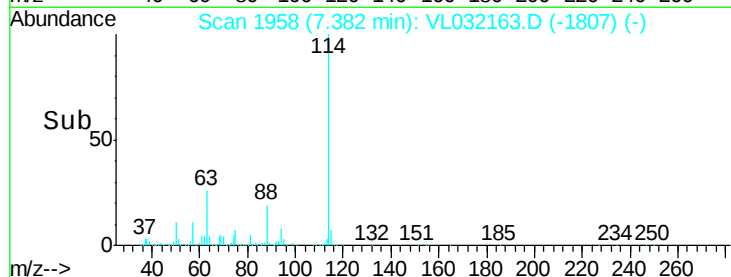
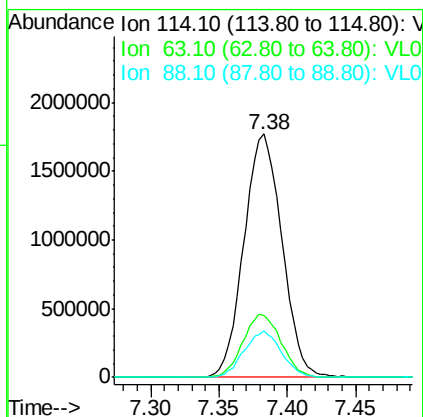
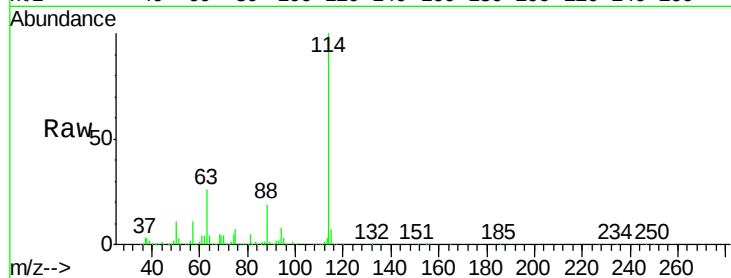
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACE

Tot Ion:114 Resp: 3431706
 Ion Ratio Lower Upper
 114 100
 63 26.1 19.1 28.7
 88 18.7 13.9 20.9

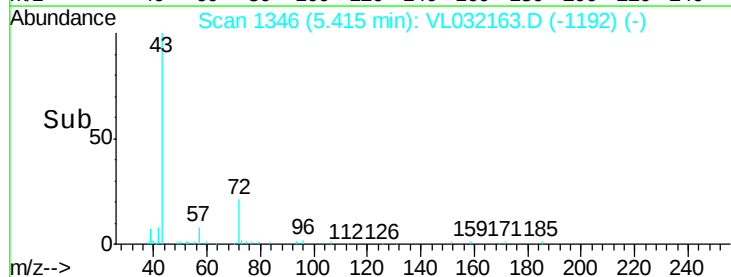
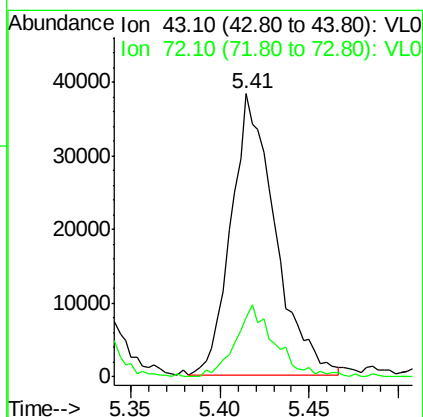
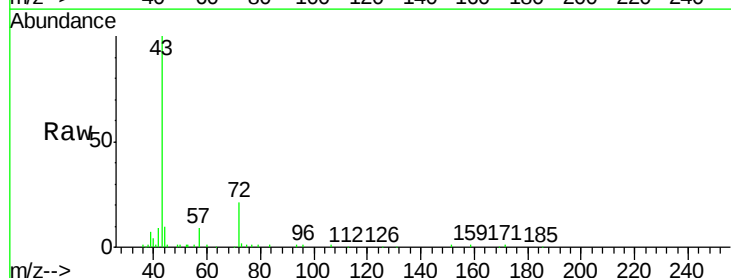
Manual Integrations
 APPROVED

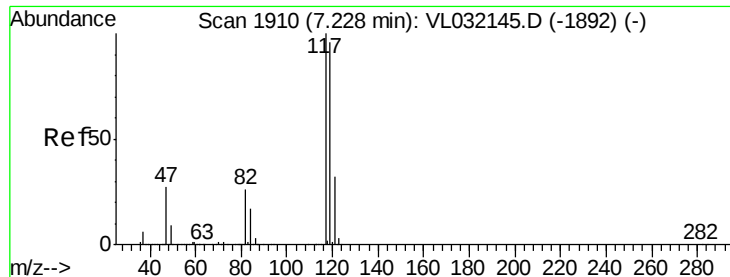
MMDadoda
 7/2/2018 4:26:43 PM



#34
 2-Butanone
 Concen: 0.30 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Tgt Ion: 43 Resp: 65830
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.10 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Instrument :

MSVOA_L

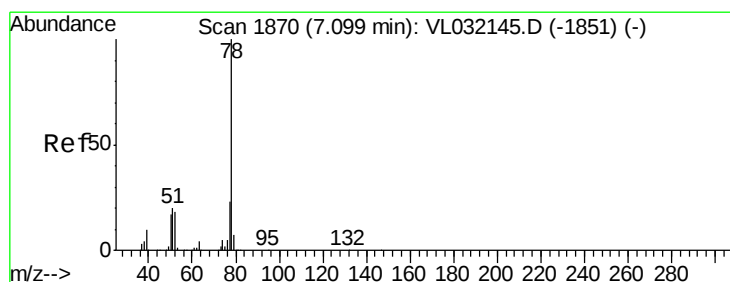
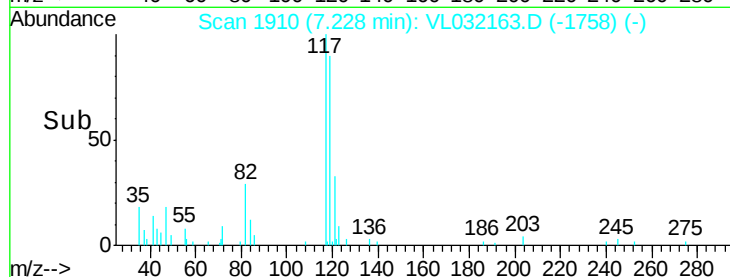
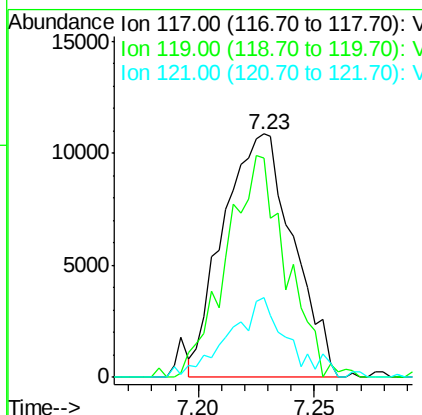
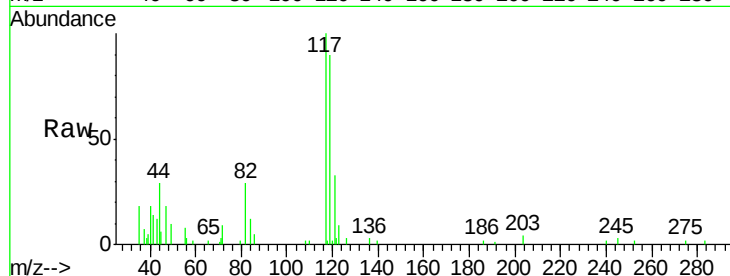
ClientSampleId :

RESIDENT-A-CRAWL-SPACE

Tot Ion:	117	Resp:	22828
Ion Ratio	Lower	Upper	
117	100		
119	88.0	74.8	112.2
121	35.1	24.0	36.0

Manual Integrations
APPROVED

MMDadoda
7/2/2018 4:26:43 PM



#36

Benzene

Concen: 0.10 ppbv m

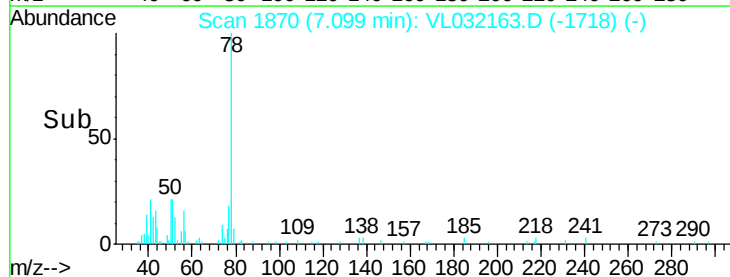
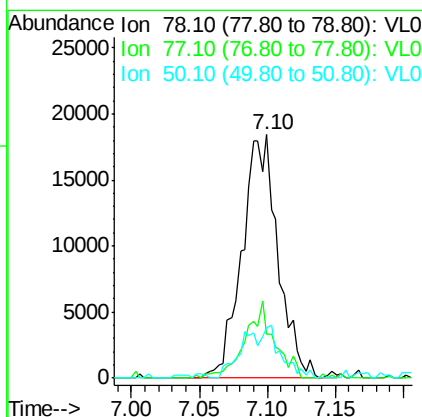
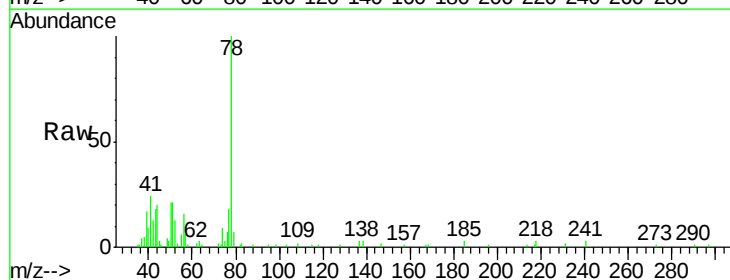
RT: 7.10 min Scan# 1870

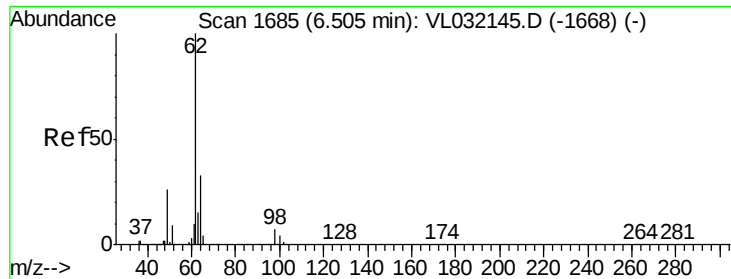
Delta R.T. -0.01 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Tgt Ion:	78	Resp:	33782
Ion Ratio	Lower	Upper	
78	100		
77	18.2	17.7	26.5
50	20.7	14.0	21.0





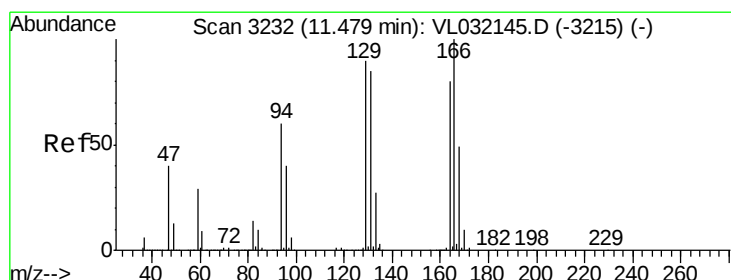
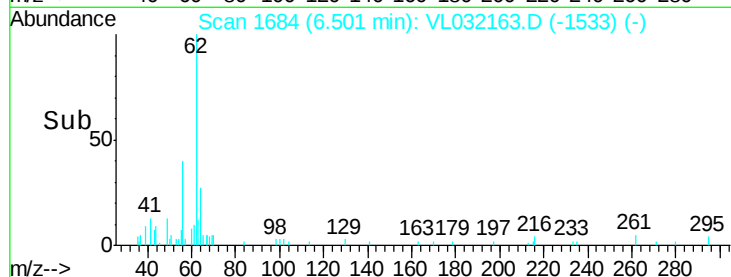
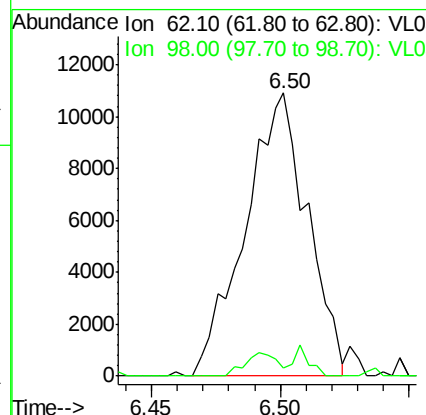
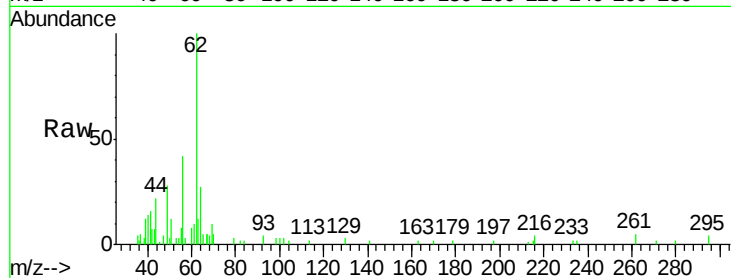
#37
 1,2-Dichloroethane
 Concen: 0.11 ppbv
 RT: 6.50 min Scan# 1684
 Delta R.T. -0.02 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACE

Tot Ion	Ratio	Resp	Lower	Upper
62	100	18392		
98	7.5		5.8	8.6

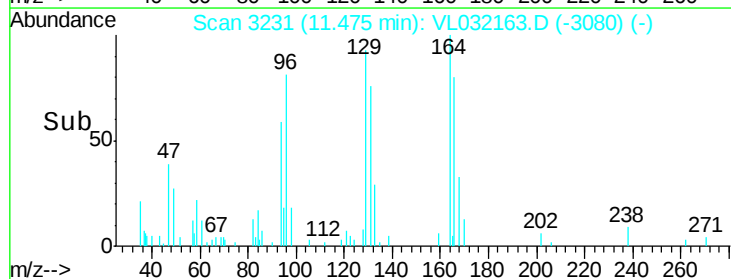
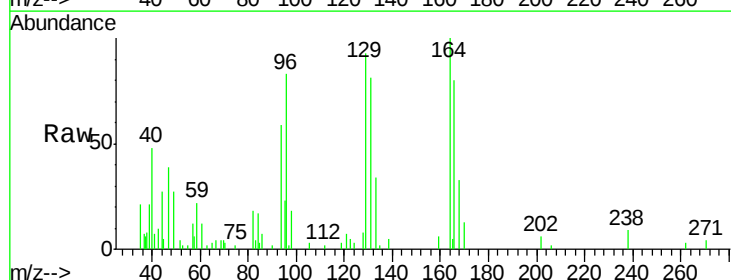
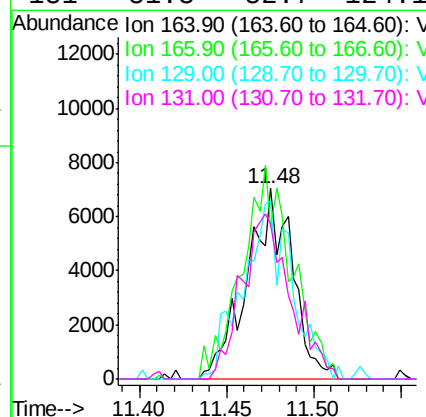
Manual Integrations
 APPROVED

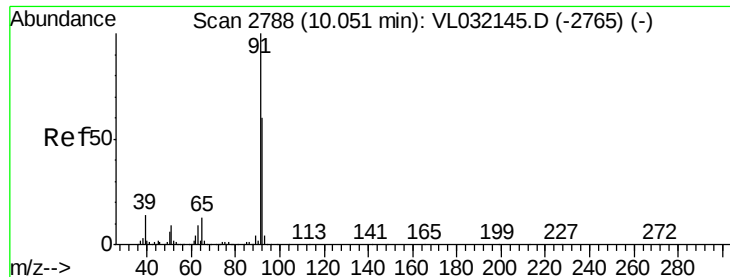
MMDadoda
 7/2/2018 4:26:43 PM



#52
 Tetrachloroethene
 Concen: 0.11 ppbv m
 RT: 11.48 min Scan# 3231
 Delta R.T. -0.02 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	12725		
166	79.9		100.6	151.0#
129	93.2		84.0	126.0
131	81.3		82.7	124.1#





#53

Toluene

Concen: 1.75 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-CRAWL-SPACE

Tot Ion: 91 Resp: 700654

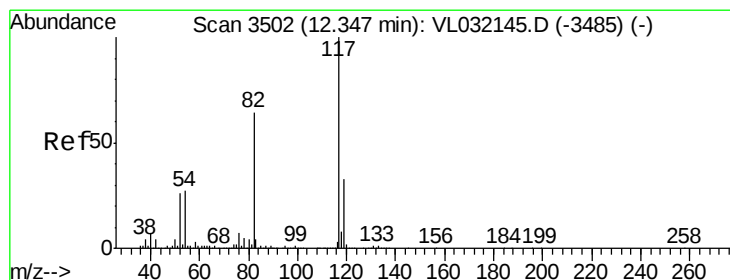
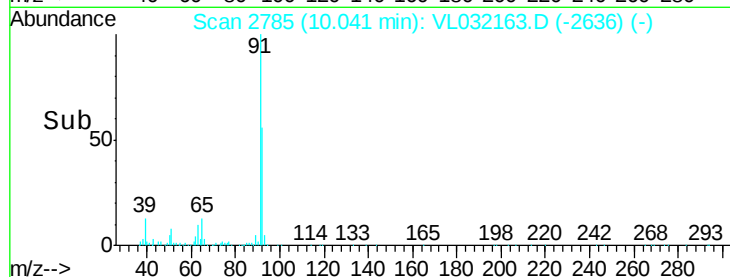
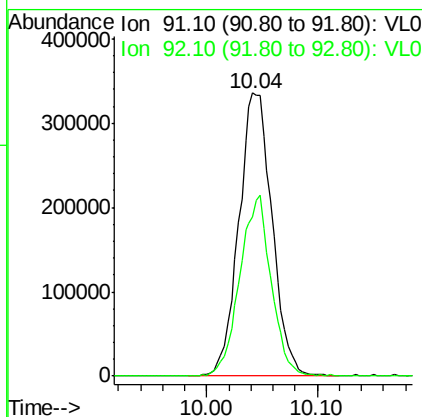
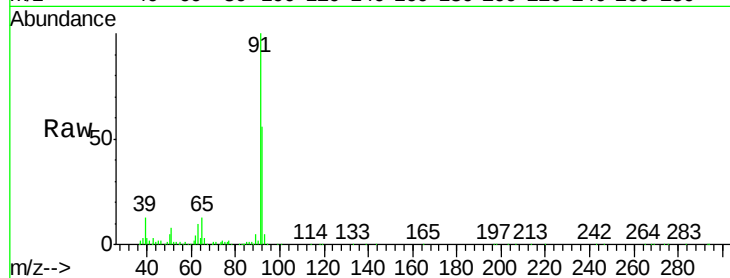
Ion Ratio Lower Upper

91 100

92 60.6 49.2 73.8

Manual Integrations
APPROVED

MMDadoda
7/2/2018 4:26:43 PM



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

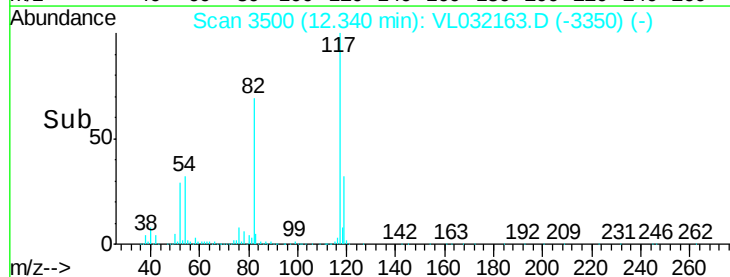
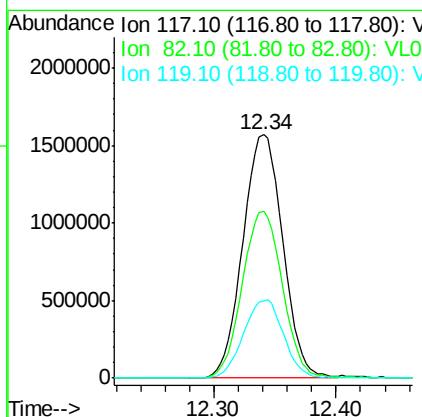
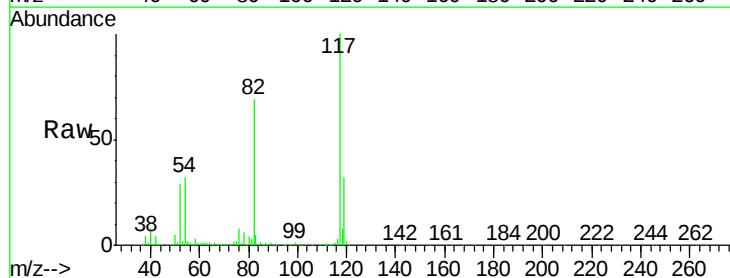
Tgt Ion: 117 Resp: 3565905

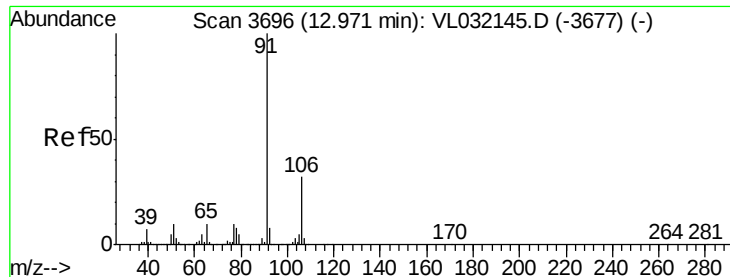
Ion Ratio Lower Upper

117 100

82 69.4 47.8 71.8

119 32.4 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.25 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-CRAWL-SPACE

Tot Ion: 91 Resp: 143656

Ion Ratio Lower Upper

91 100

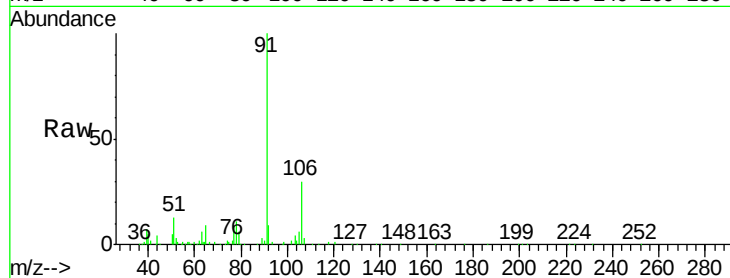
106 30.0 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

7/2/2018 4:26:43 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.96

80000

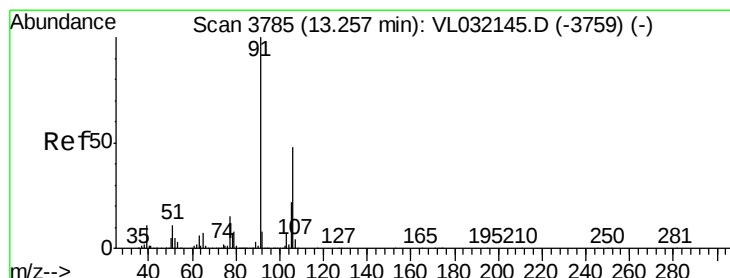
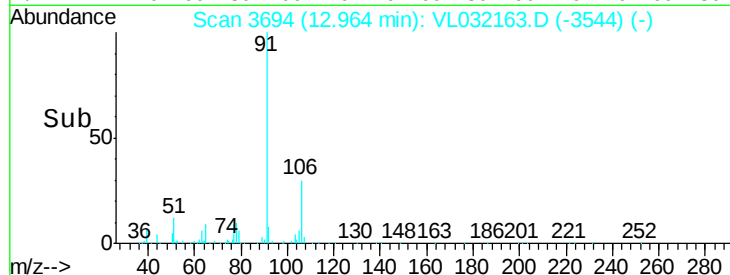
60000

40000

20000

0

Time-->



#59

m/p-Xylene

Concen: 0.54 ppbv

RT: 13.22 min Scan# 3774

Delta R.T. -0.05 min

Lab File: VL032163.D

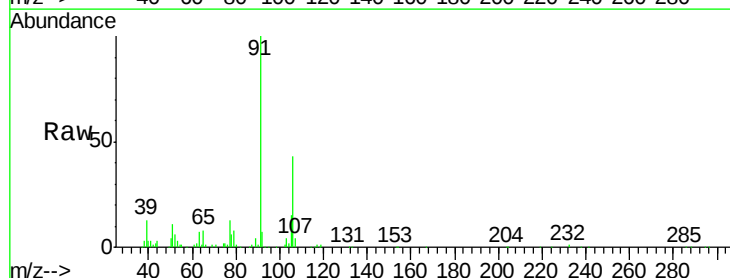
Acq: 30 Jun 2018 9:53

Tgt Ion: 91 Resp: 250690

Ion Ratio Lower Upper

91 100

106 45.6 38.6 58.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.22

100000

80000

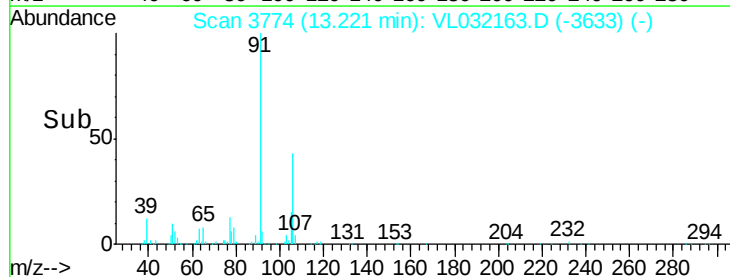
60000

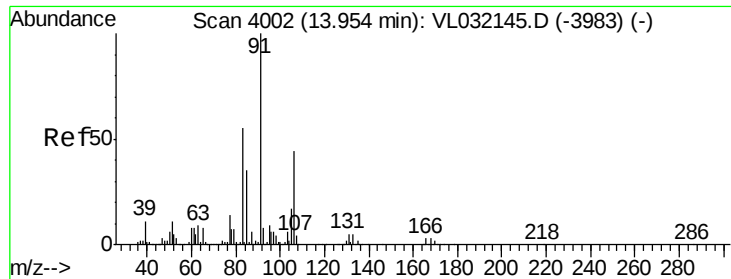
40000

20000

0

Time-->





#60

o-Xylene

Concen: 0.24 ppbv

RT: 13.95 min Scan# 4001

Delta R.T. -0.02 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-CRAWL-SPACE

Tot Ion: 91 Resp: 109990

Ion Ratio Lower Upper

91 100

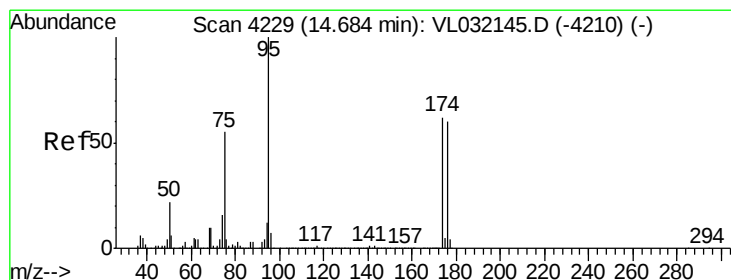
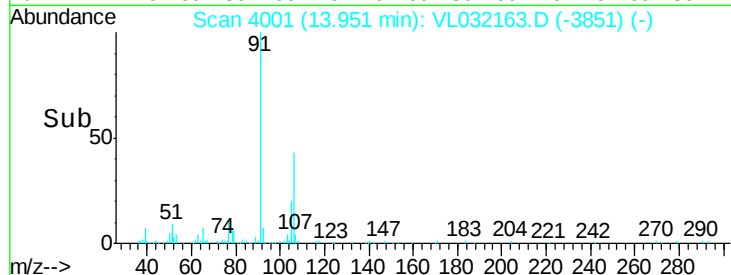
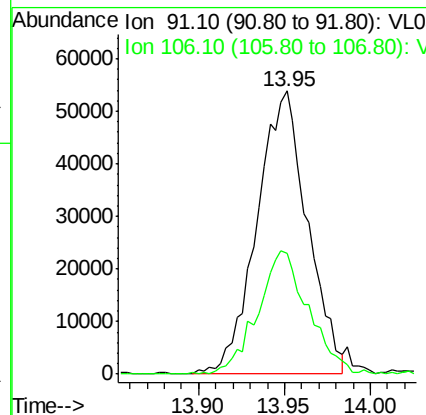
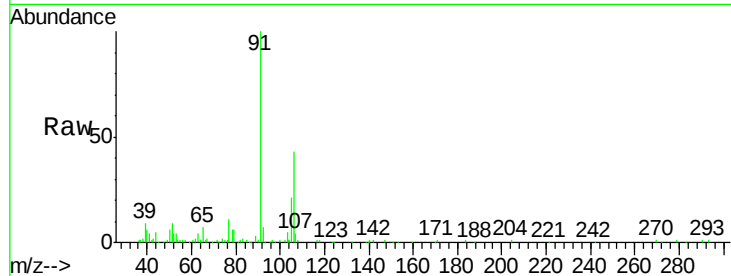
106 44.1 23.3 69.8

Manual Integrations

APPROVED

MMDadoda

7/2/2018 4:26:43 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.73 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032163.D

Acq: 30 Jun 2018 9:53

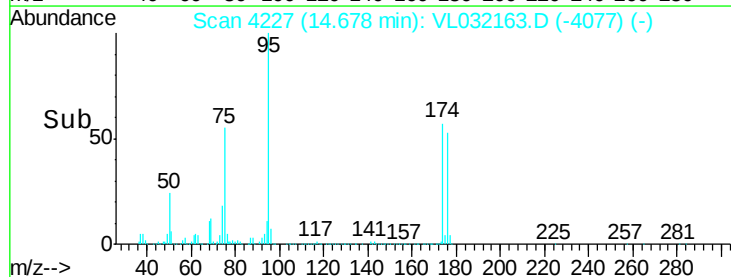
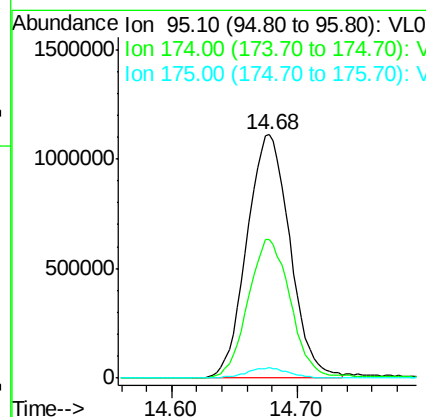
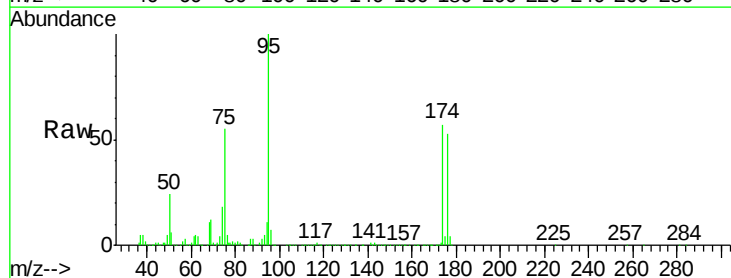
Tgt Ion: 95 Resp: 2652299

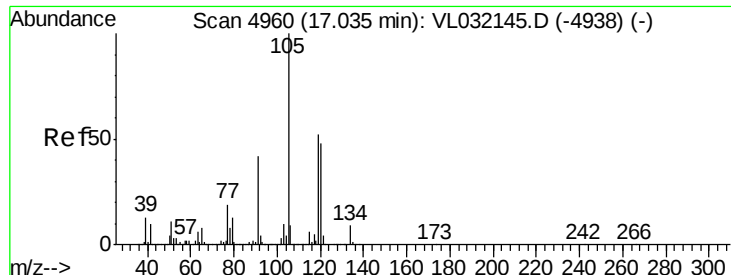
Ion Ratio Lower Upper

95 100

174 57.5 52.1 78.1

175 4.2 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.13 ppbv m
 RT: 17.03 min Scan# 4959
 Delta R.T. -0.02 min
 Lab File: VL032163.D
 Acq: 30 Jun 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACE

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.8	38.8	58.2
91	10.0	33.6	50.4
77	14.5	16.0	24.0

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:26:43 PM

