

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032167.D
 Acq On : 30 Jun 2018 12:32
 Operator : SY/AP
 Sample : J3601-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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 7/2/2018 4:26:53 PM

Quant Time: Jul 02 12:07:40 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	5.84	49	1498930	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3563056	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3311635	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.67	95	2453981	9.69	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	60327	0.31	ppbv	# 82
3) Chlorodifluoromethane	3.07	51	74401m	0.41	ppbv	
4) Chloromethane	3.23	50	176237	1.80	ppbv	94
9) Propene	3.11	41	307986m	3.61	ppbv	
10) Heptane	8.34	43	69647m	0.28	ppbv	
11) Trichlorofluoromethane	4.07	101	61203	0.29	ppbv	92
13) Ethanol	3.73	45	653593	25.26	ppbv	100
15) Acetone	3.97	43	1838738	10.49	ppbv	97
19) Isopropyl Alcohol	4.12	45	214961m	1.48	ppbv	
20) Methylene Chloride	4.48	84	201374	3.14	ppbv	95
26) Hexane	5.86	57	306776	1.84	ppbv	# 55
29) Chloroform	5.93	83	98679	0.41	ppbv	98
30) Cyclohexane	7.34	84	23630m	0.15	ppbv	
34) 2-Butanone	5.41	43	200494	0.89	ppbv	98
35) Carbon Tetrachloride	7.22	117	20993	0.09	ppbv	86
36) Benzene	7.09	78	40941	0.12	ppbv	# 86
37) 1,2-Dichloroethane	6.50	62	35372m	0.21	ppbv	
44) 2,2,4-Trimethylpentane	8.09	57	67851m	0.11	ppbv	
50) 4-Methyl-2-Pentanone	8.98	43	87136m	0.24	ppbv	
52) Tetrachloroethene	11.47	164	11943m	0.10	ppbv	
53) Toluene	10.04	91	1086428	2.61	ppbv	99
58) Ethyl Benzene	12.97	91	186500m	0.35	ppbv	
59) m/p-Xylene	13.22	91	356888m	0.83	ppbv	
60) o-Xylene	13.94	91	155238	0.36	ppbv	97
74) 1,2,4-Trimethylbenzene	17.02	105	140769m	0.27	ppbv	

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

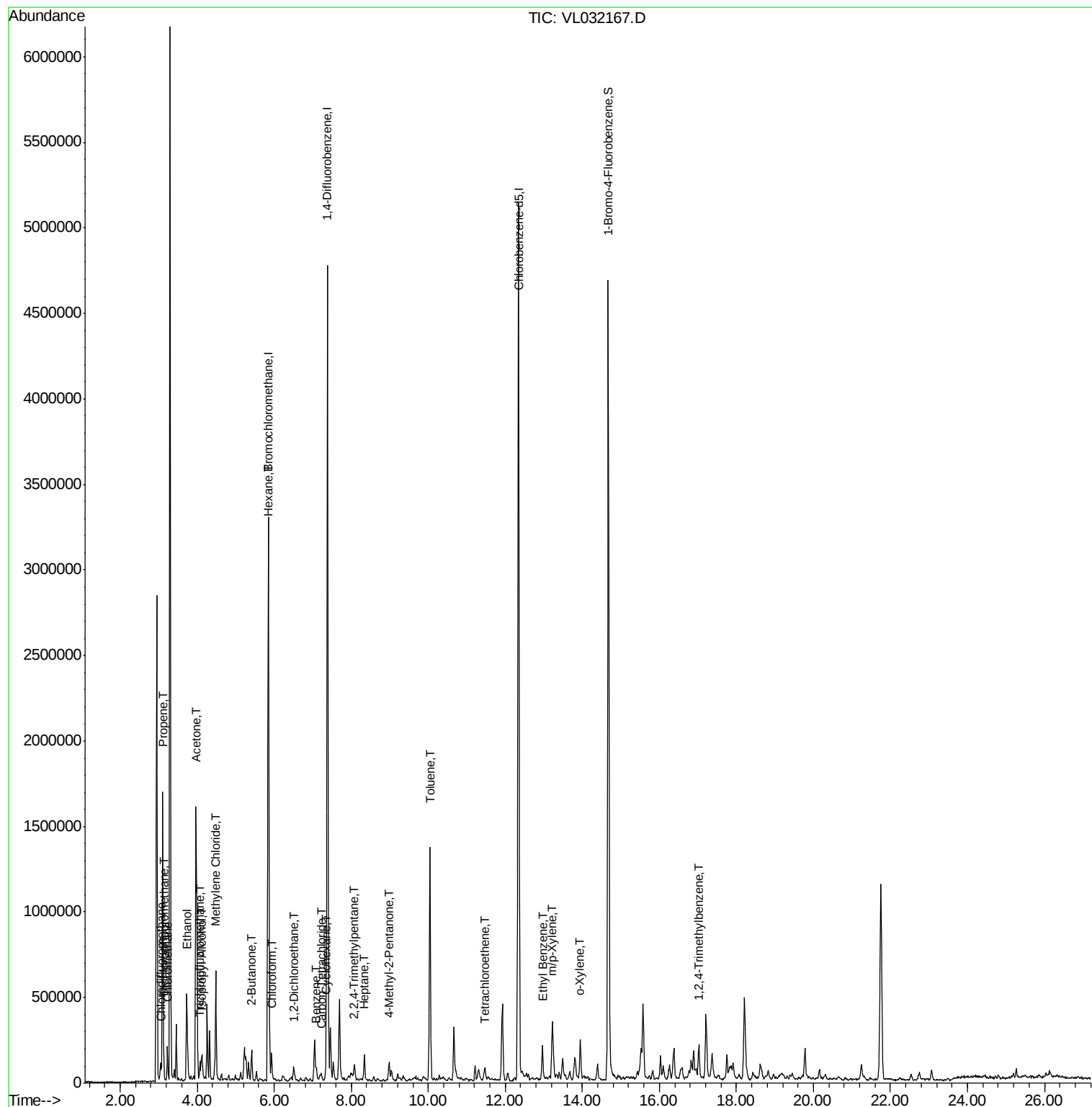
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
Data File : VL032167.D
Acq On : 30 Jun 2018 12:32
Operator : SY/AP
Sample : J3601-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

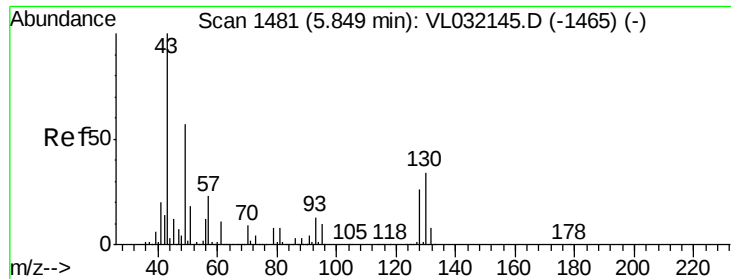
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-B-CRAWL-SPACE

Manual Integrations
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Quant Time: Jul 02 12:07:40 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

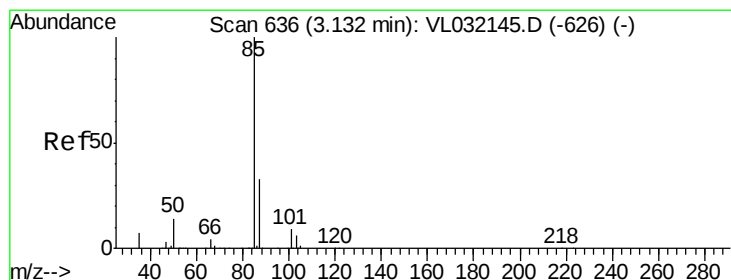
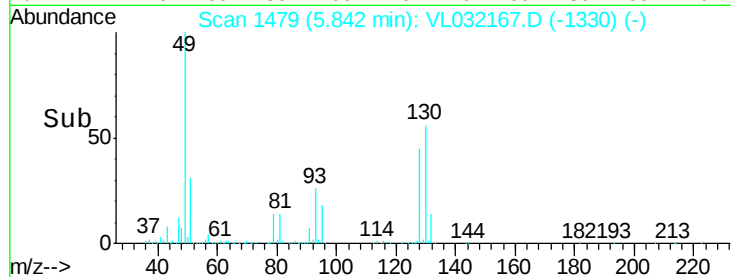
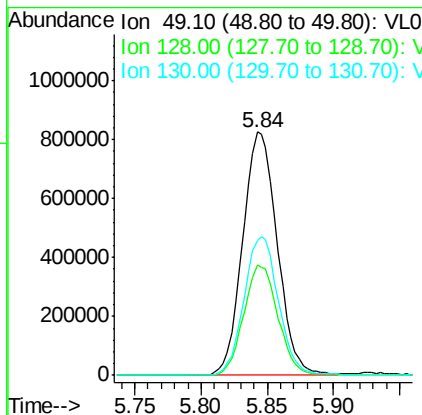
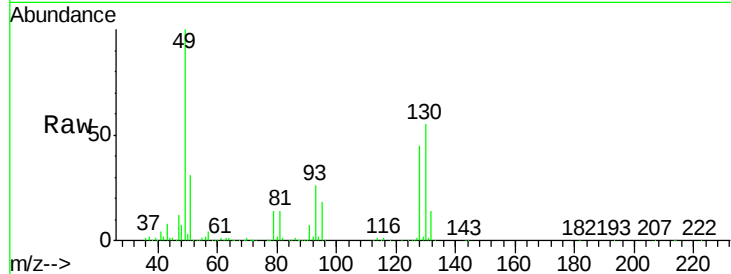
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VL032167.D
 Acq: 30 Jun 2018 12:32

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

Tot Ion: 49 Resp: 1498930
 Ion Ratio Lower Upper
 49 100
 128 45.4 23.4 70.0
 130 57.0 30.3 90.9

Manual Integrations
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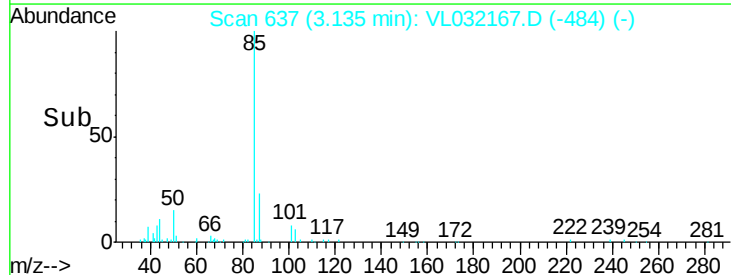
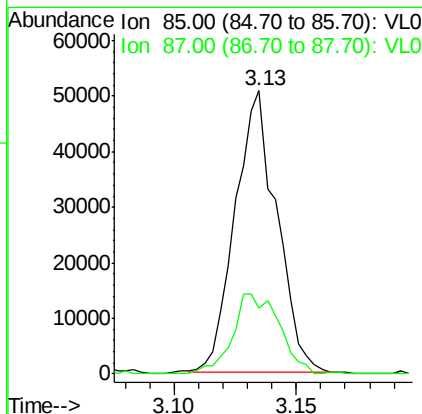
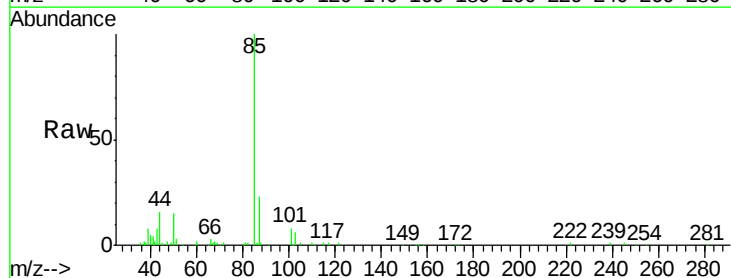
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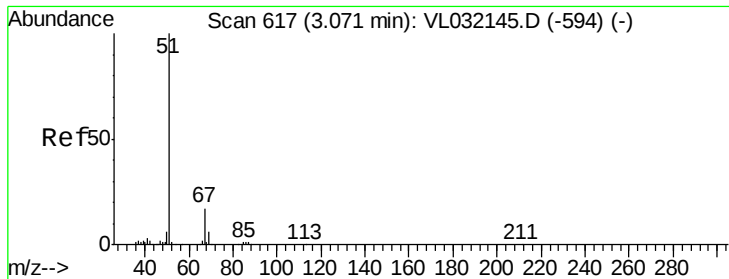


#2

Dichlorodifluoromethane
 Concen: 0.31 ppbv
 RT: 3.13 min Scan# 637
 Delta R.T. -0.01 min
 Lab File: VL032167.D
 Acq: 30 Jun 2018 12:32

Tgt Ion: 85 Resp: 60327
 Ion Ratio Lower Upper
 85 100
 87 23.2 26.7 40.1#





#3

Chlorodifluoromethane

Concen: 0.41 ppbv m

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-CRAWL-SPACE

Tot Ion: 51 Resp: 74401

Ion Ratio Lower Upper

51 100

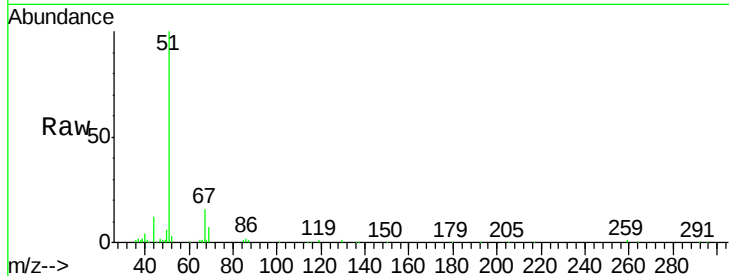
67 17.9 13.2 19.8

Manual Integrations

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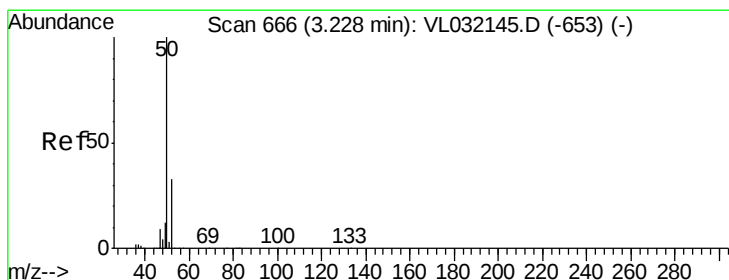
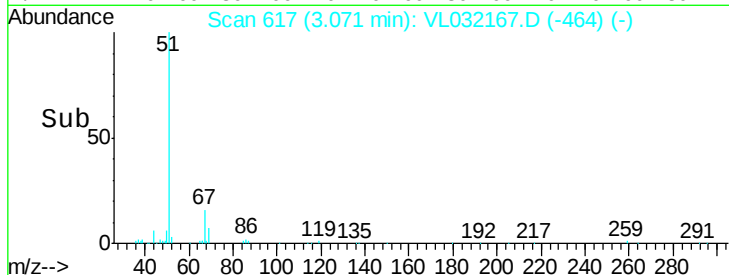
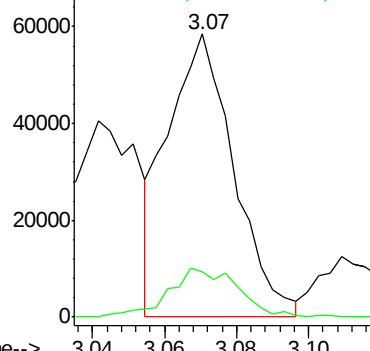
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.80 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032167.D

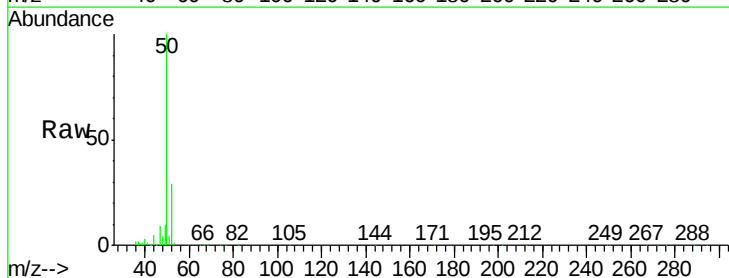
Acq: 30 Jun 2018 12:32

Tgt Ion: 50 Resp: 176237

Ion Ratio Lower Upper

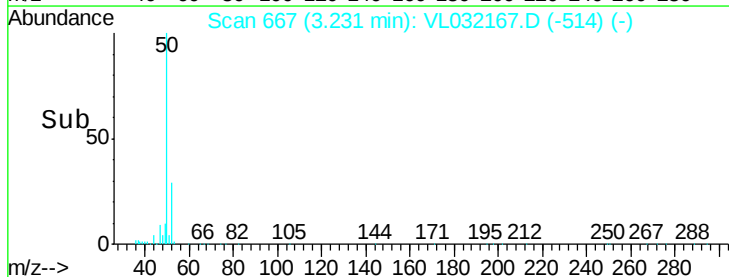
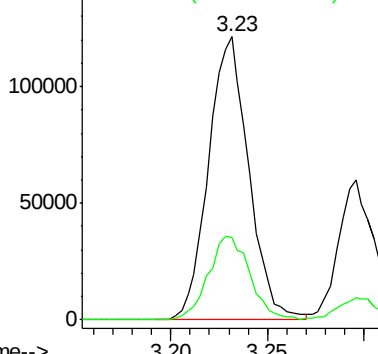
50 100

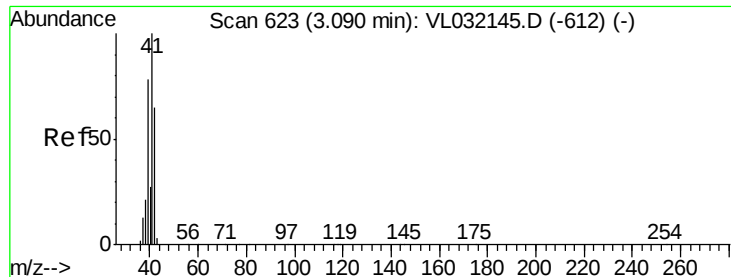
52 29.1 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

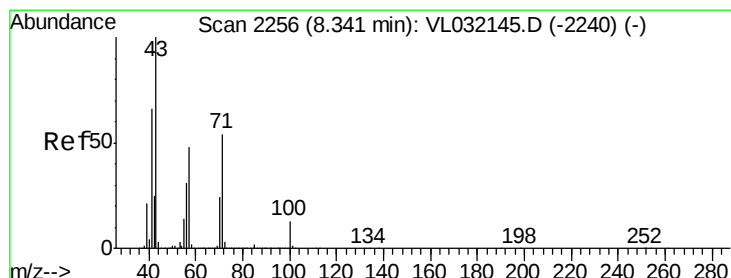
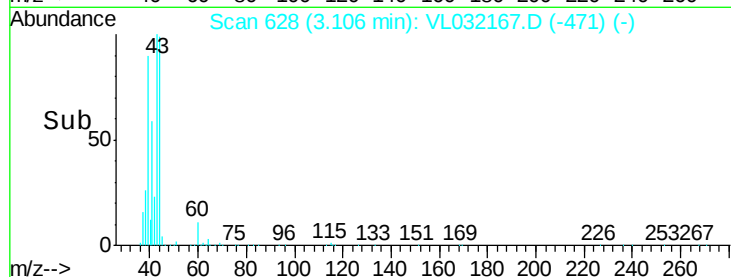
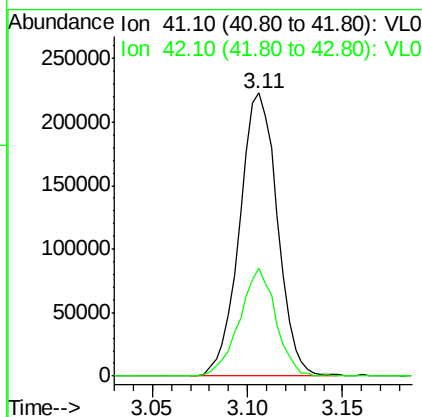
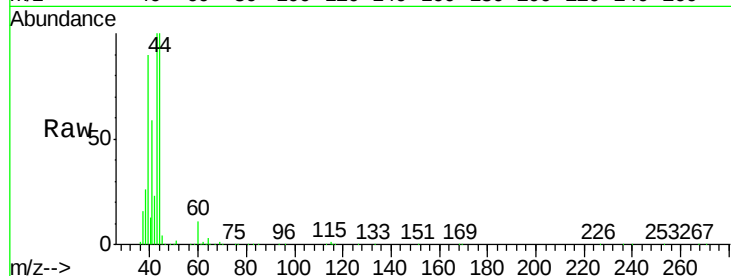
Concen: 3.61 ppbv m
RT: 3.11 min Scan# 628
Delta R.T. 0.01 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

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

Tot Ion	Ratio	Lower	Upper
41	100		
42	655.9	56.2	84.4#

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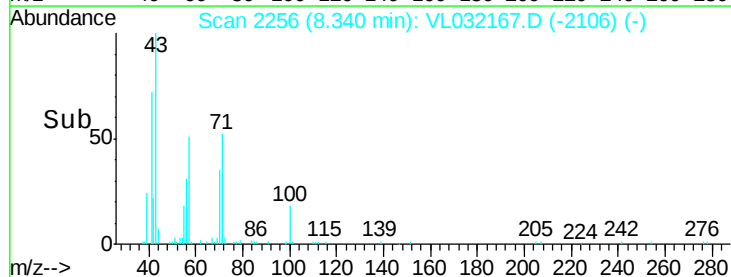
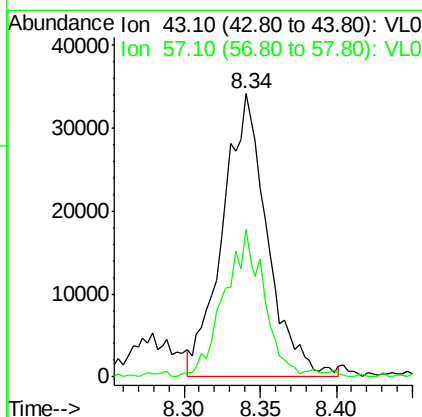
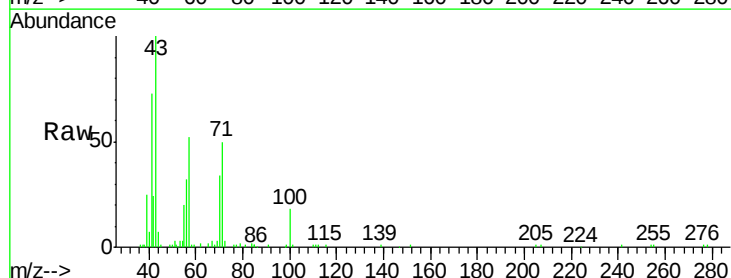


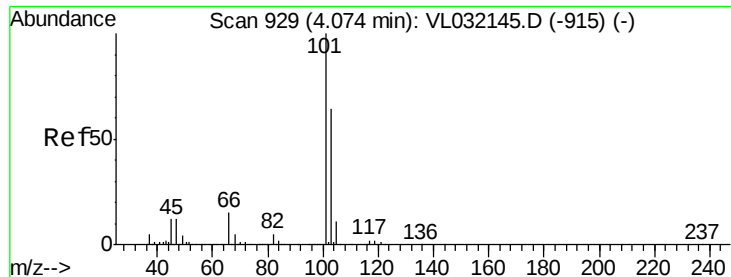
#10

Heptane

Concen: 0.28 ppbv m
RT: 8.34 min Scan# 2256
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.8	59.8#





#11

Trichlorofluoromethane

Concen: 0.29 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-CRAWL-SPACE

Tot Ion:101 Resp: 61203

Ion Ratio Lower Upper

101 100

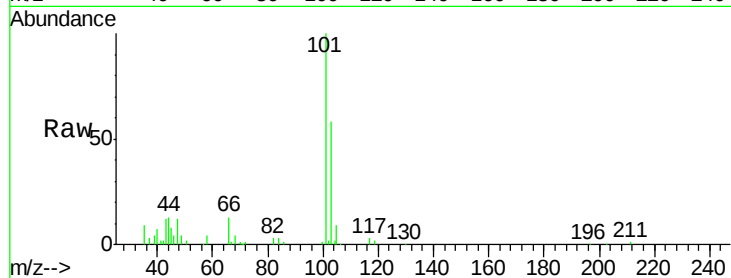
103 57.7 51.4 77.0

Manual Integrations

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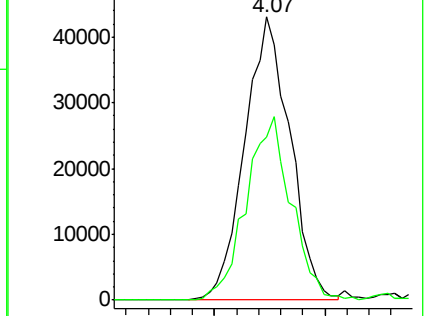
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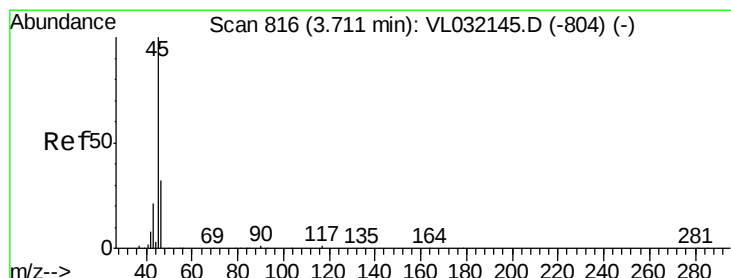
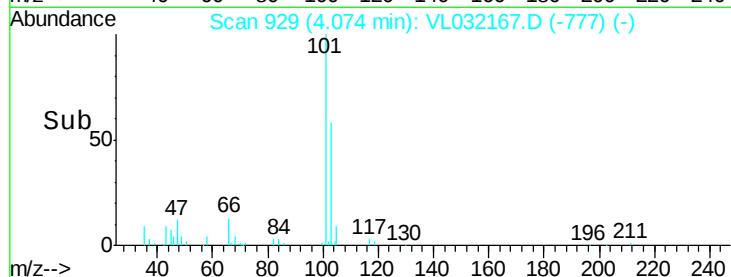


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#13

Ethanol

Concen: 25.26 ppbv

RT: 3.73 min Scan# 823

Delta R.T. 0.01 min

Lab File: VL032167.D

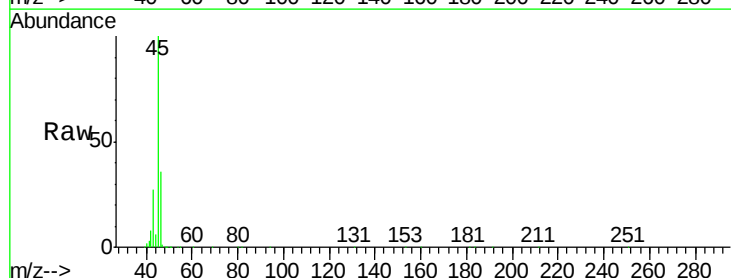
Acq: 30 Jun 2018 12:32

Tgt Ion: 45 Resp: 653593

Ion Ratio Lower Upper

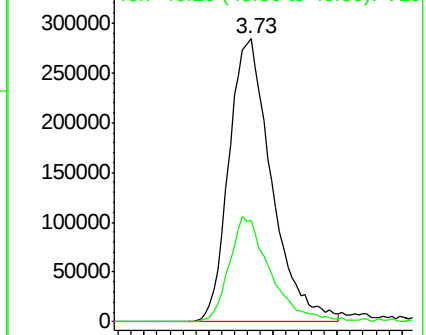
45 100

46 36.2 14.6 58.4

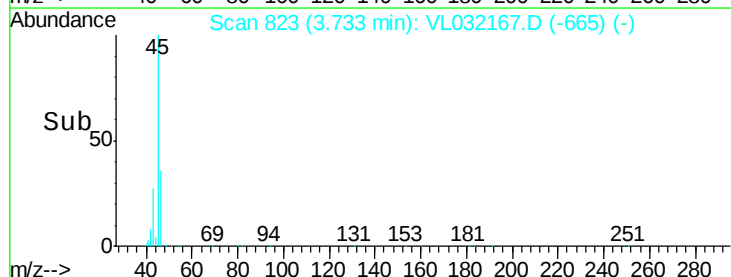


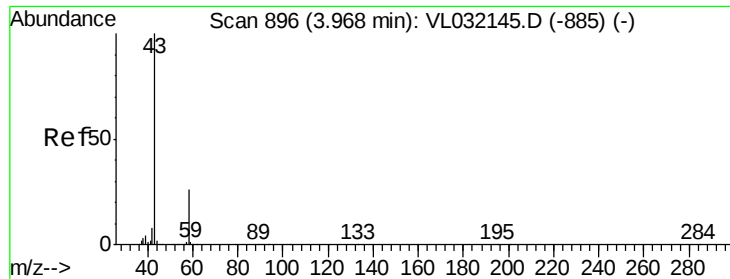
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



Time-->





#15

Acetone

Concen: 10.49 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-CRAWL-SPACE

Tot Ion: 43 Resp: 1838738

Ion Ratio Lower Upper

43 100

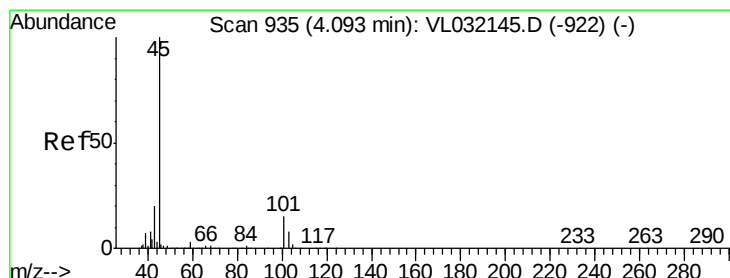
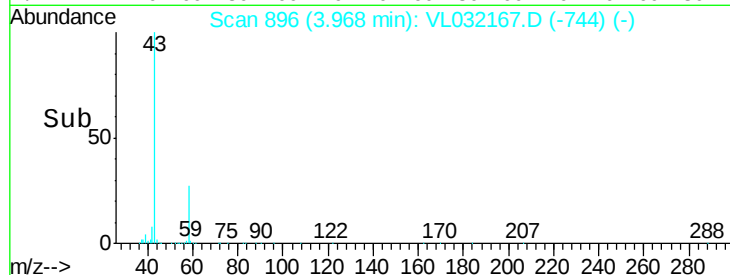
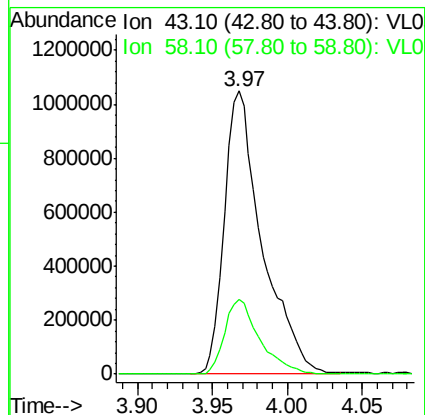
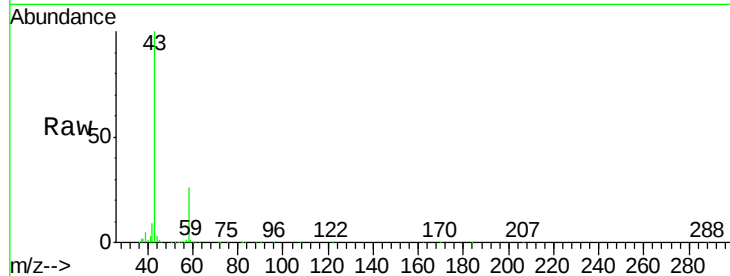
58 24.9 21.4 32.0

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 1.48 ppbv m

RT: 4.12 min Scan# 942

Delta R.T. 0.01 min

Lab File: VL032167.D

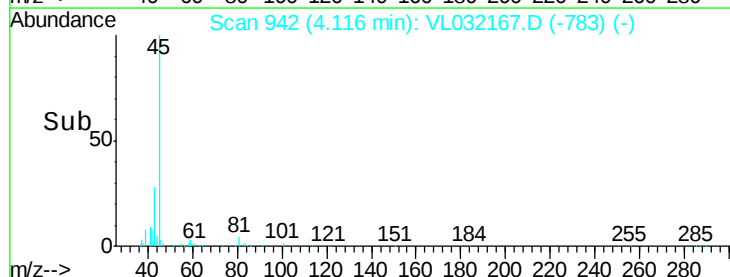
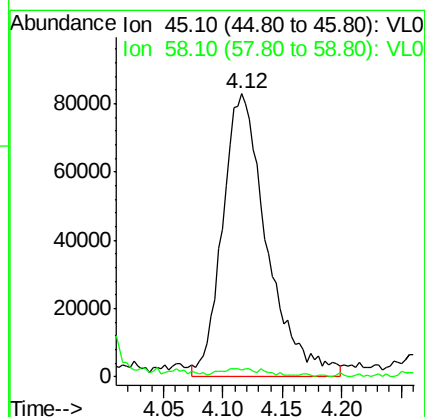
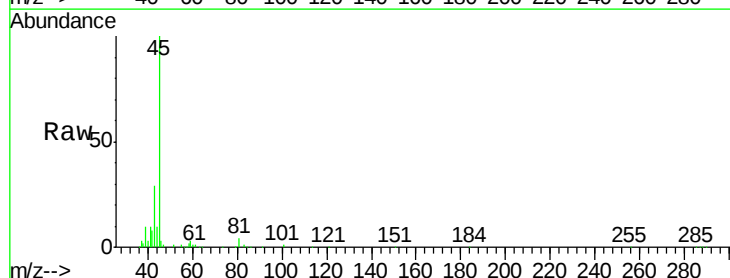
Acq: 30 Jun 2018 12:32

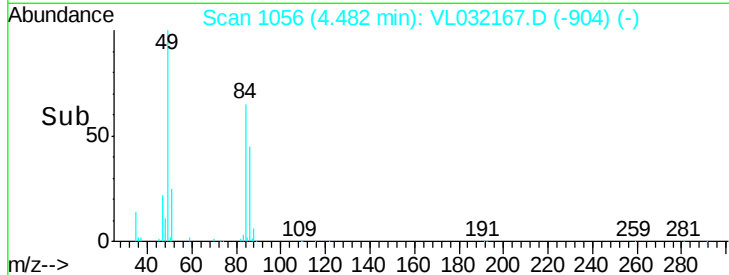
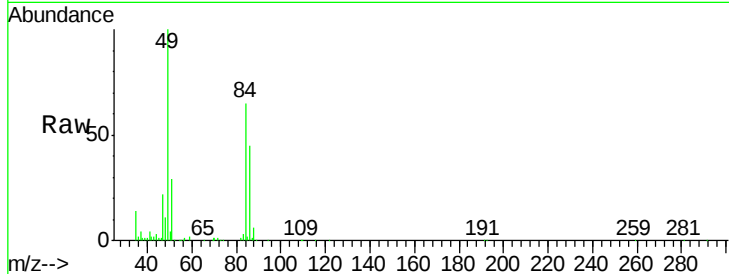
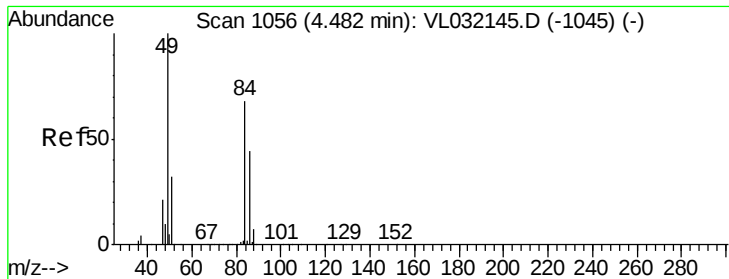
Tgt Ion: 45 Resp: 214961

Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.0#





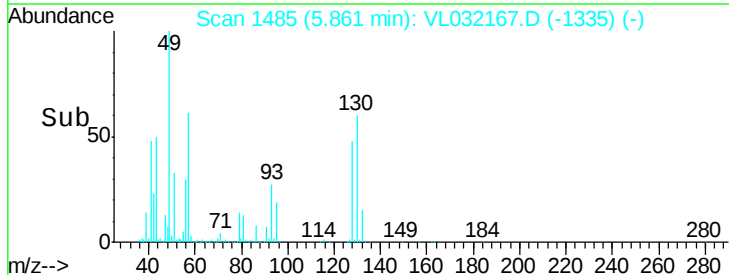
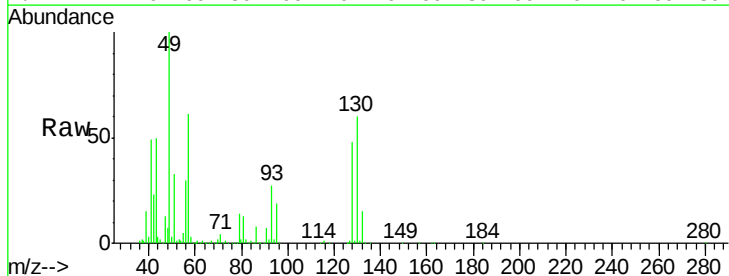
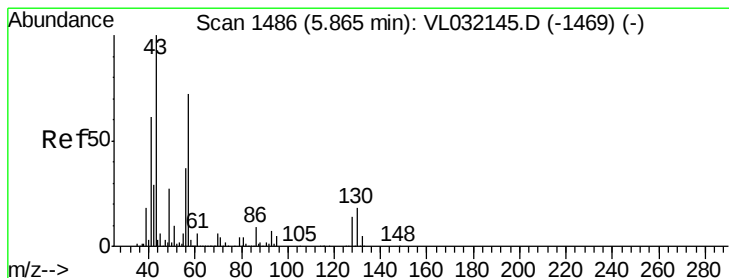
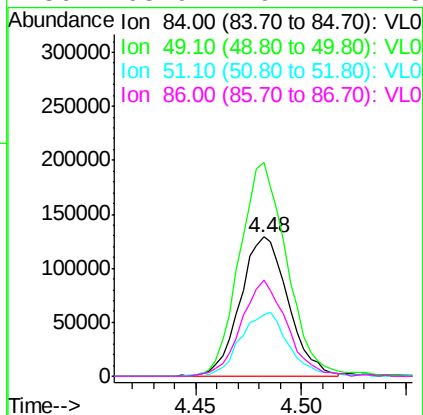
#20
Methvlene Chloride
Concen: 3.14 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

Tot Ion	84	Resp	201374
Ion	Ratio	Lower	Upper
84	100		
49	153.6	119.6	179.4
51	43.0	36.3	54.5
86	68.9	49.7	74.5

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

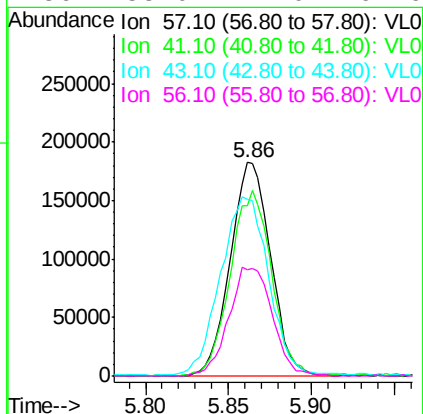
Manual Integrations
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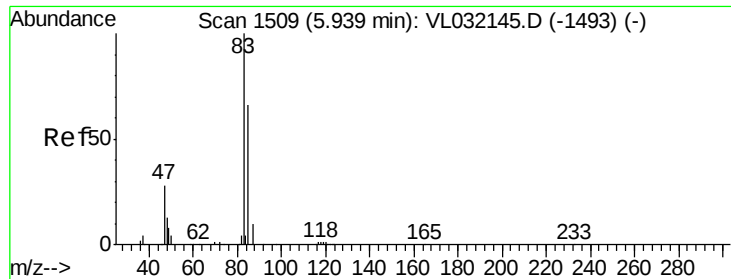
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#26
Hexane
Concen: 1.84 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

Tgt Ion	57	Resp	306776
Ion	Ratio	Lower	Upper
57	100		
41	90.1	68.6	103.0
43	100.4	168.6	252.8#
56	55.0	41.0	61.6





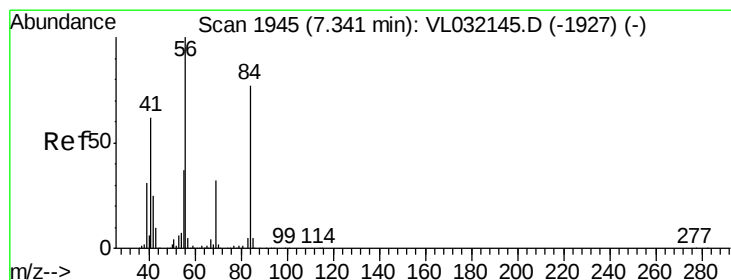
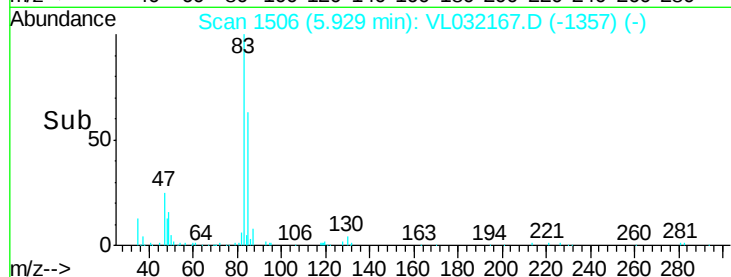
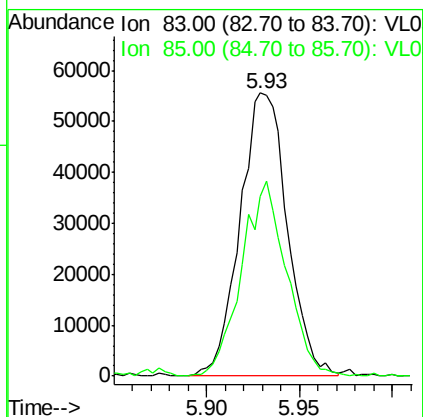
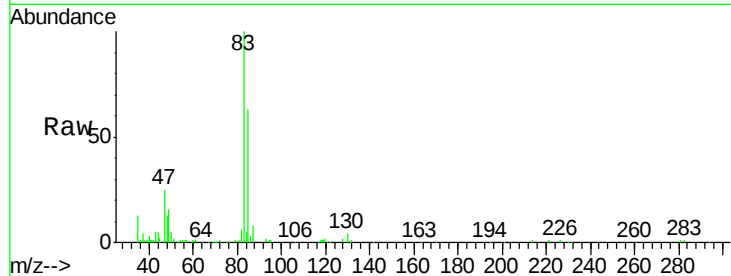
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Chloroform
Concen: 0.41 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

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

Tot Ion	83	Resp	98679
Ion Ratio	100	Lower	Upper
83	100		
85	63.3	51.6	77.4

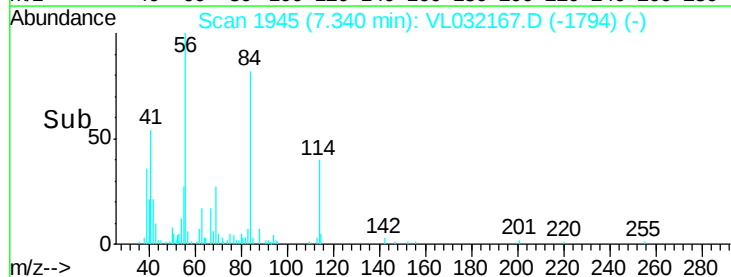
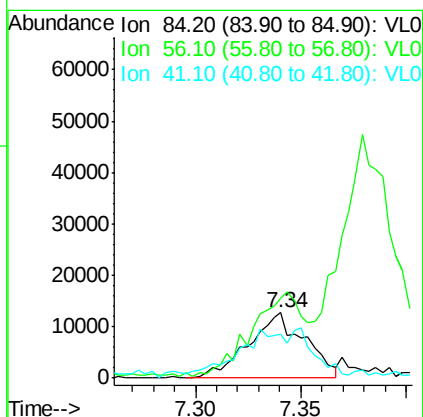
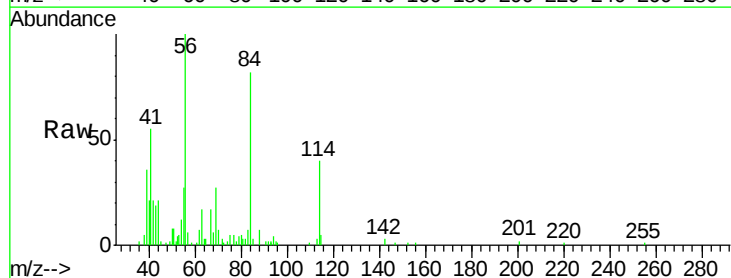
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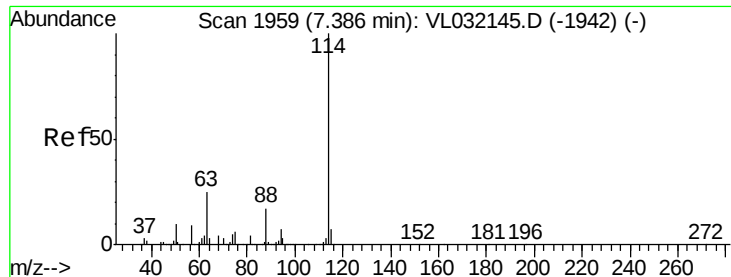
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#30
Cyclohexane
Concen: 0.15 ppbv m
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

Tgt Ion	84	Resp	23630
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	109.1	163.7#
41	0.0	64.6	96.8#





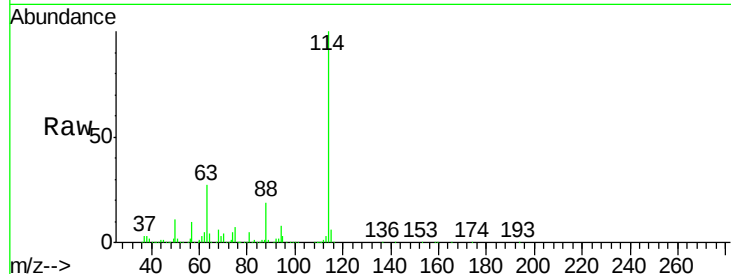
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032167.D
 Acq: 30 Jun 2018 12:32

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

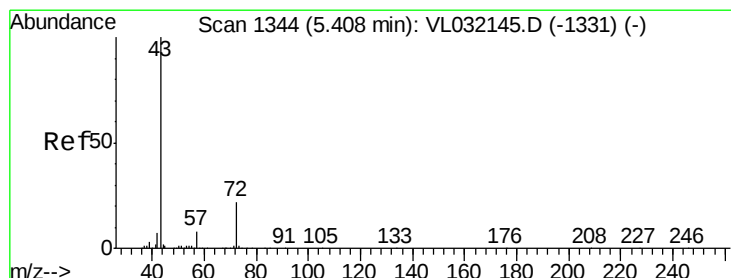
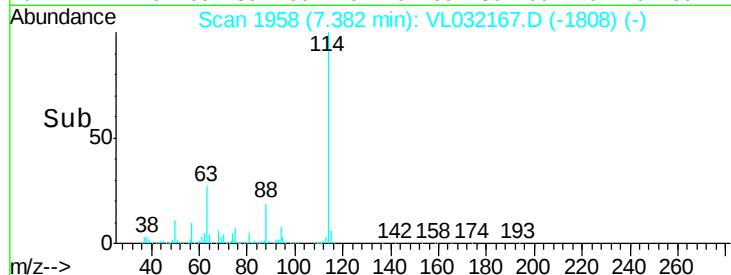
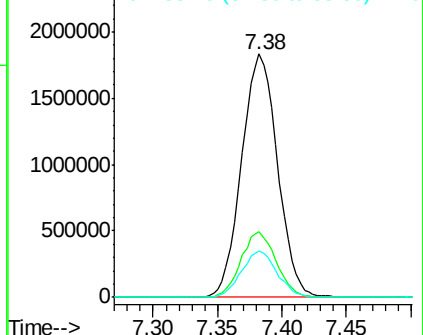
Tot Ion: 114 Resp: 3563056
 Ion Ratio Lower Upper
 114 100
 63 26.5 19.1 28.7
 88 18.9 13.9 20.9

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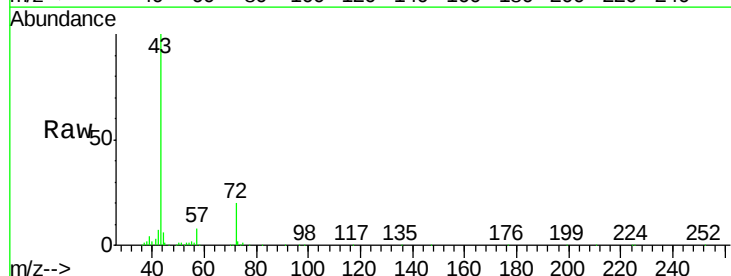


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

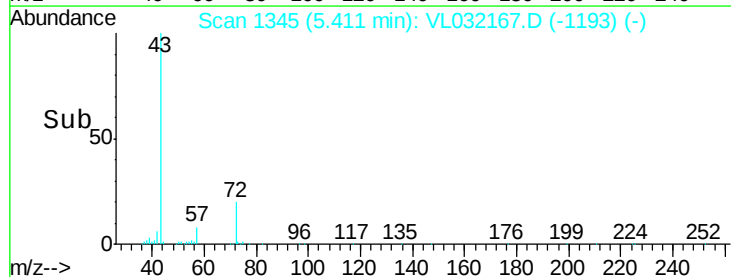
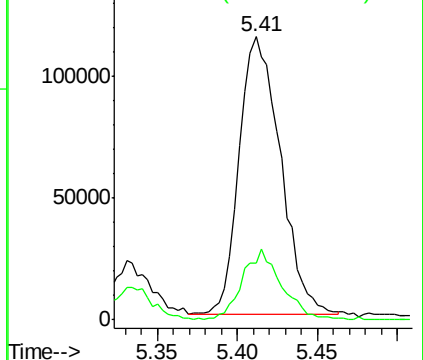


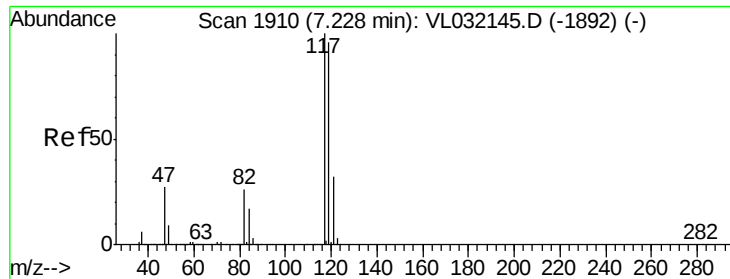
#34
 2-Butanone
 Concen: 0.89 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL032167.D
 Acq: 30 Jun 2018 12:32

Tgt Ion: 43 Resp: 200494
 Ion Ratio Lower Upper
 43 100
 72 24.0 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





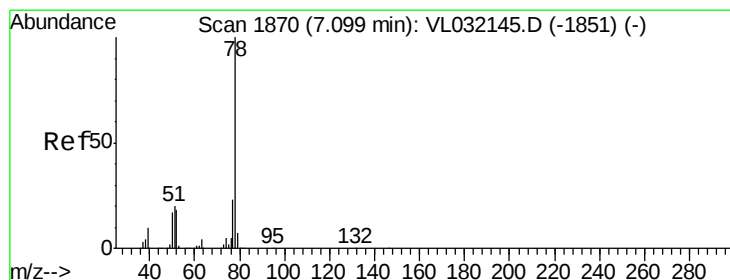
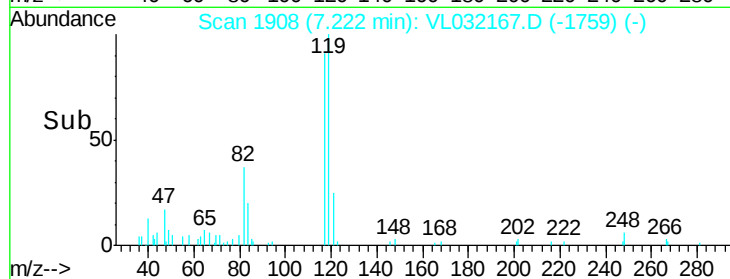
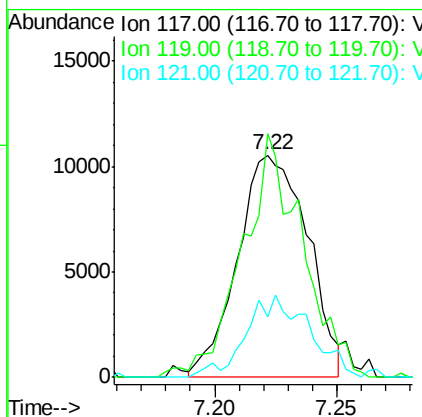
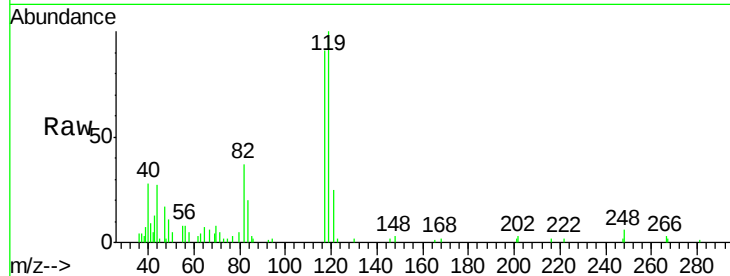
#35
Carbon Tetrachloride
Concen: 0.09 ppbv
RT: 7.22 min Scan# 1908
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

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

Tot Ion	Ratio	Lower	Upper
117	100		
119	109.8	74.8	112.2
121	27.9	24.0	36.0

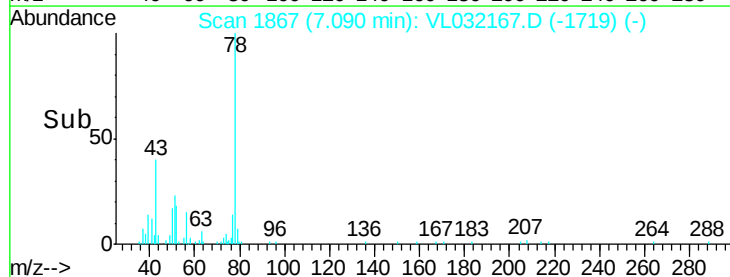
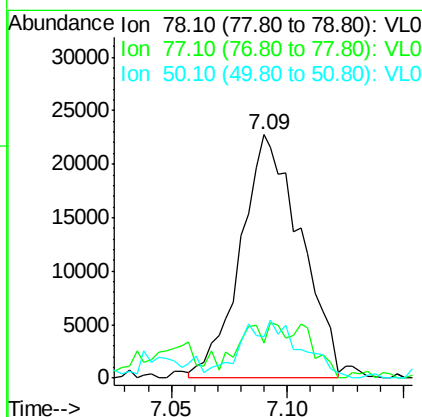
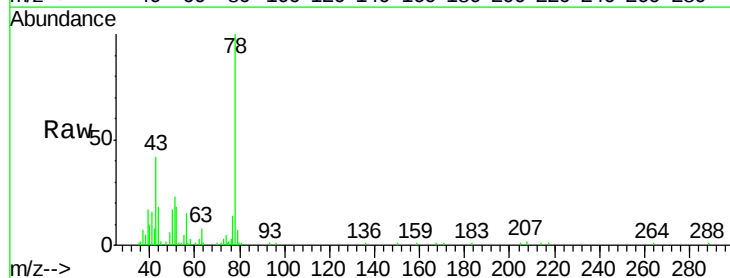
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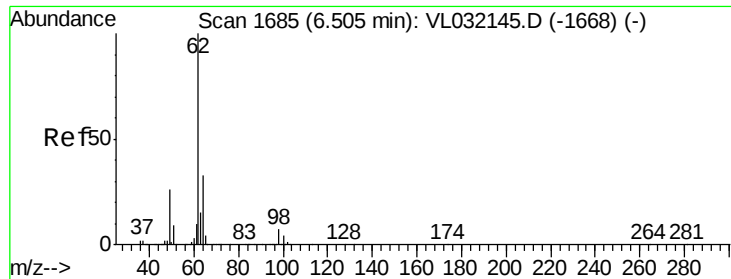
MMDadoda
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#36
Benzene
Concen: 0.12 ppbv
RT: 7.09 min Scan# 1867
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	12.2	17.7	26.5#
50	14.8	14.0	21.0





#37

1,2-Dichloroethane

Concen: 0.21 ppbv m

RT: 6.50 min Scan# 1684

Delta R.T. -0.02 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-CRAWL-SPACE

Tot Ion: 62 Resp: 35372

Ion Ratio Lower Upper

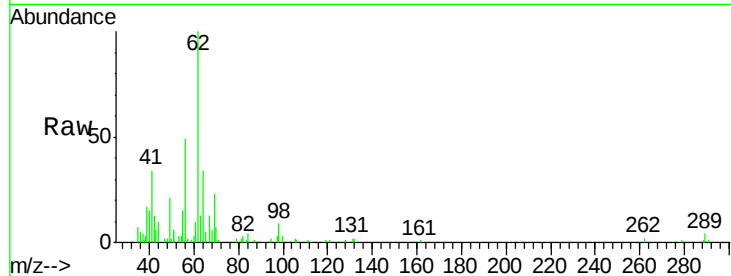
62 100

98 7.1 5.8 8.6

Manual Integrations
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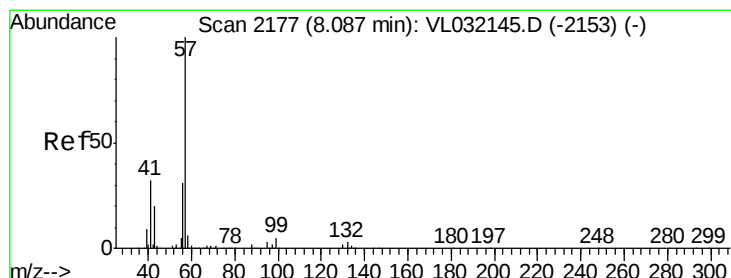
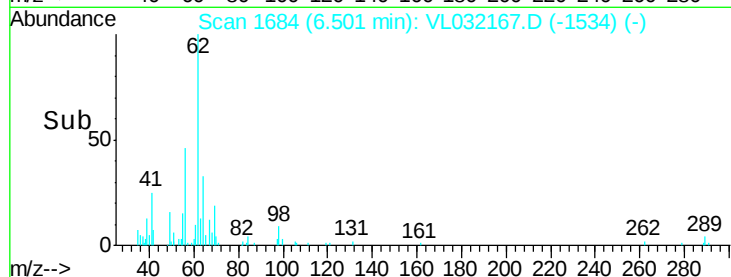
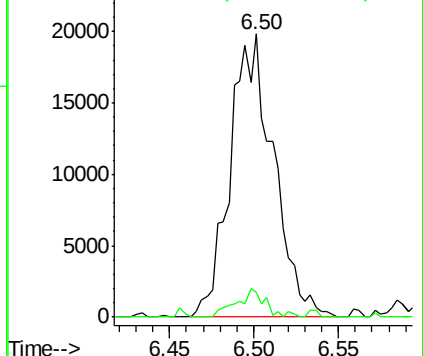
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.11 ppbv m

RT: 8.09 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

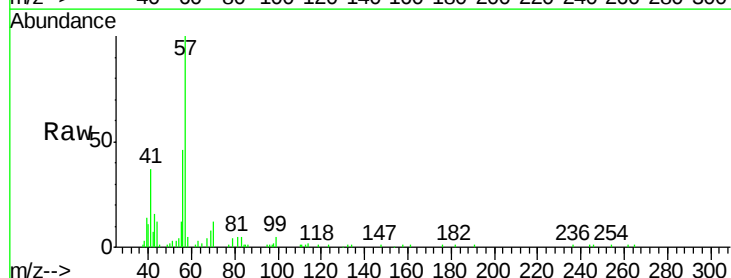
Tgt Ion: 57 Resp: 67851

Ion Ratio Lower Upper

57 100

41 46.8 24.3 36.5#

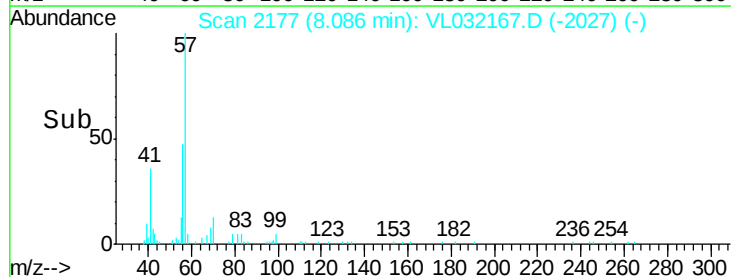
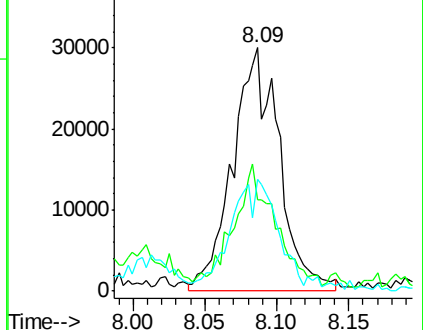
56 50.3 25.1 37.7#

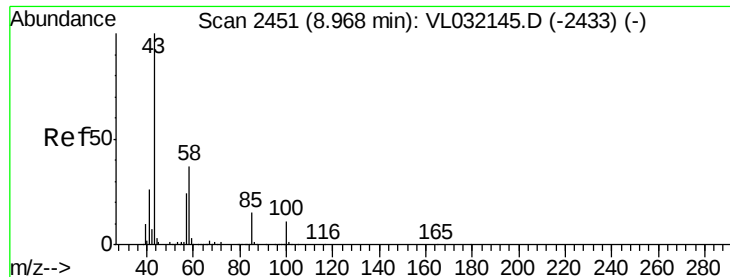


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#50

4-Methyl-2-Pentanone

Concen: 0.24 ppbv m

RT: 8.98 min Scan# 2456

Delta R.T. -0.00 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-CRAWL-SPACE

Tot Ion: 43 Resp: 87136

Ion Ratio Lower Upper

43 100

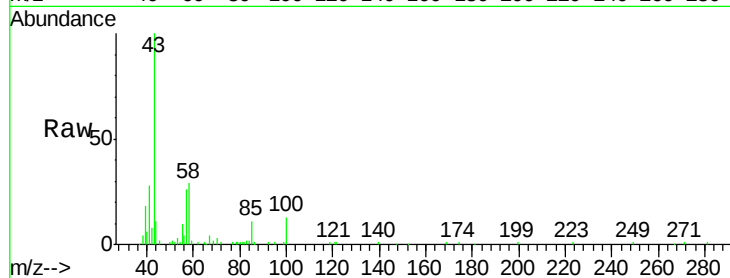
58 35.0 29.8 44.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8.98

40000

30000

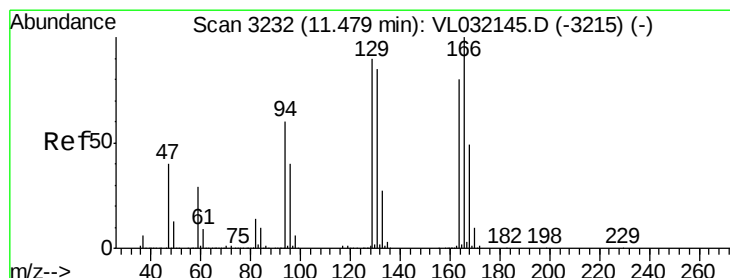
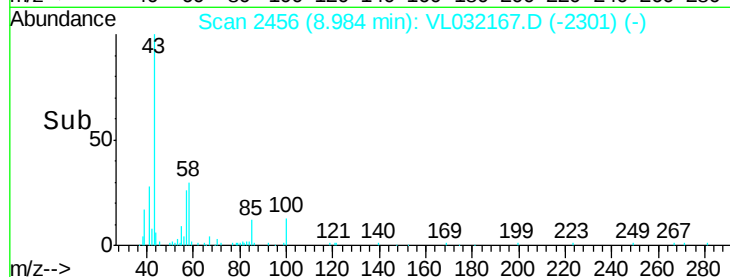
20000

10000

0

8.90 8.95 9.00 9.05

Time-->



#52

Tetrachloroethene

Concen: 0.10 ppbv m

RT: 11.47 min Scan# 3230

Delta R.T. -0.02 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Tgt Ion:164 Resp: 11943

Ion Ratio Lower Upper

164 100

166 105.8 100.6 151.0

129 109.1 84.0 126.0

131 86.5 82.7 124.1

Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

10000

8000

6000

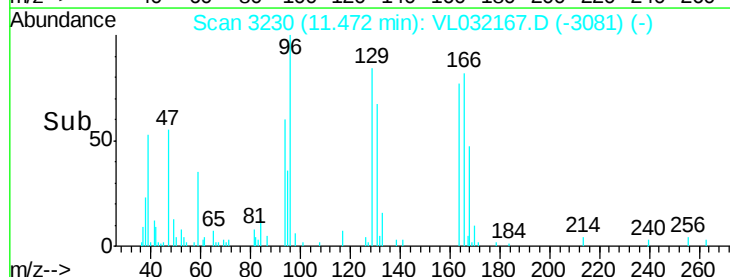
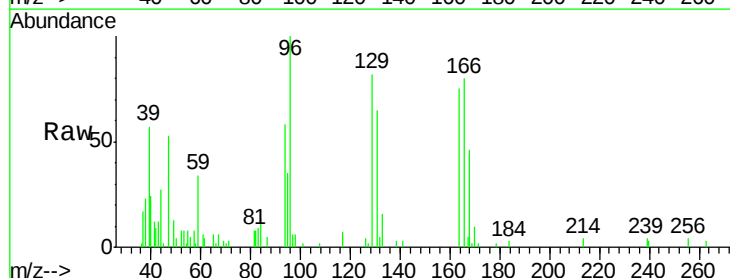
4000

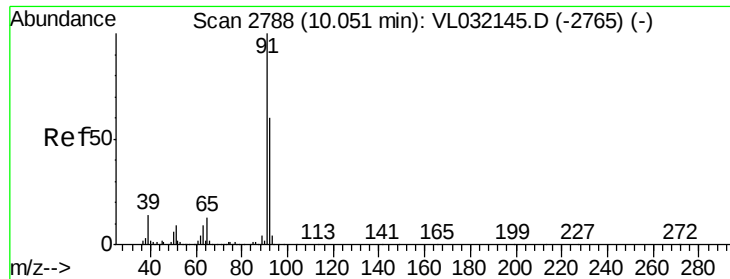
2000

0

11.40 11.45 11.50

Time-->





#53

Toluene

Concen: 2.61 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-B-CRAWL-SPACE

Tot Ion: 91 Resp: 1086428

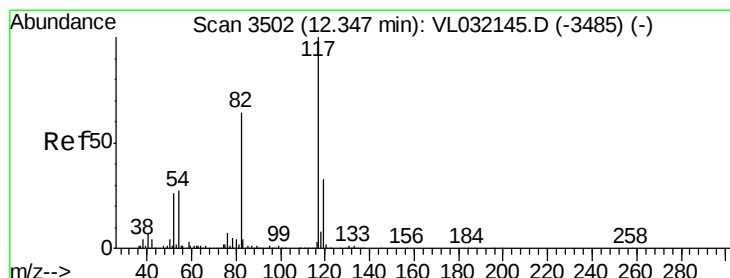
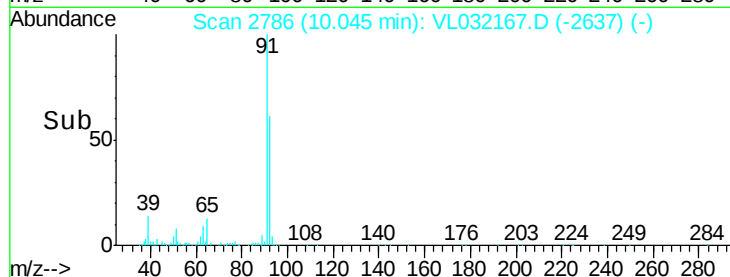
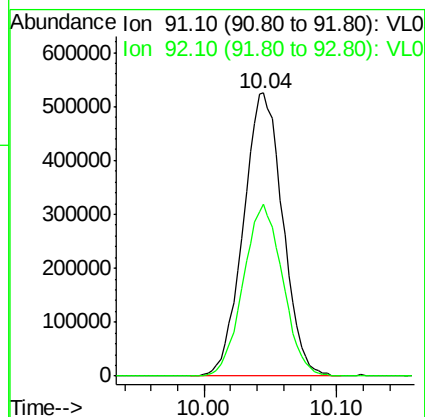
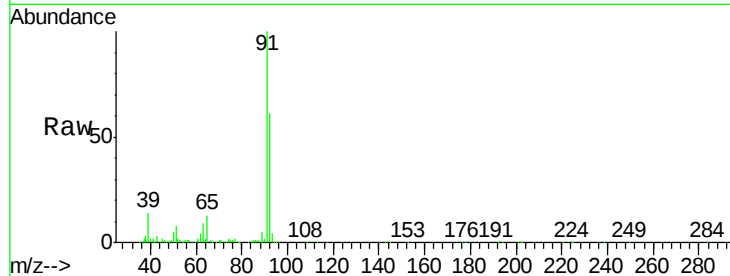
Ion Ratio Lower Upper

91 100

92 60.7 49.2 73.8

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3501

Delta R.T. -0.02 min

Lab File: VL032167.D

Acq: 30 Jun 2018 12:32

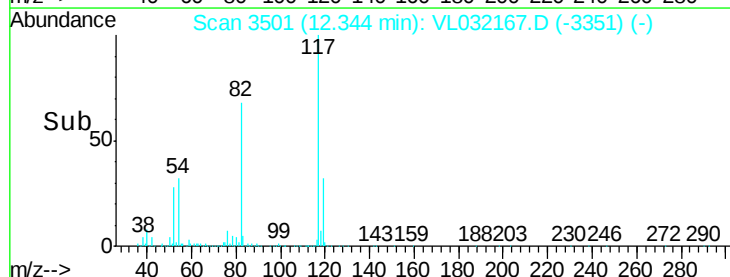
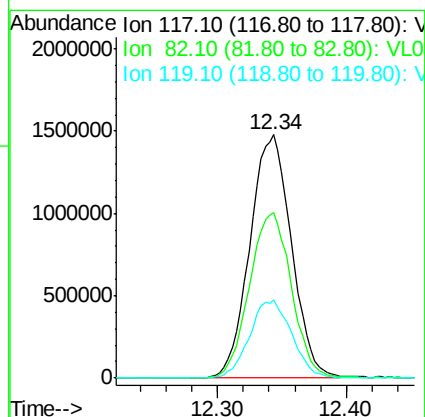
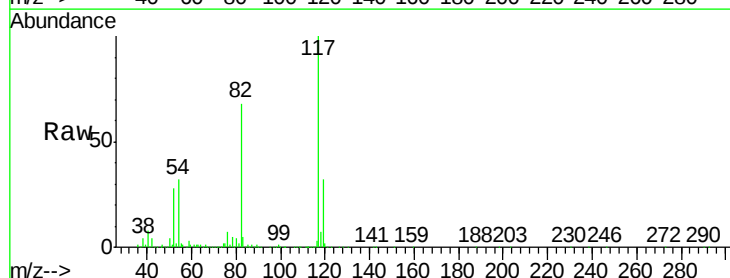
Tgt Ion: 117 Resp: 3311635

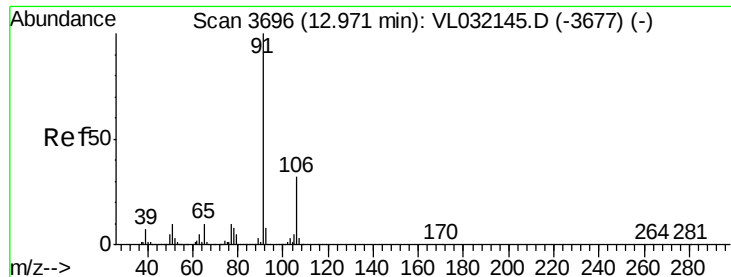
Ion Ratio Lower Upper

117 100

82 68.8 47.8 71.8

119 32.7 43.3 64.9#





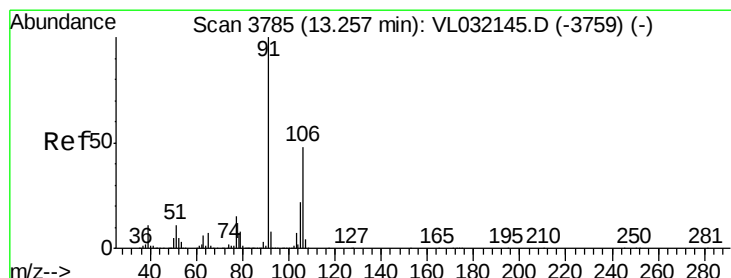
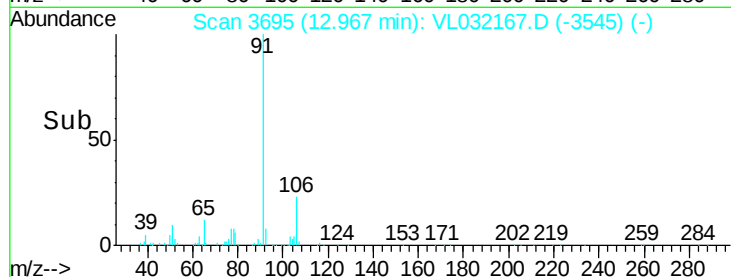
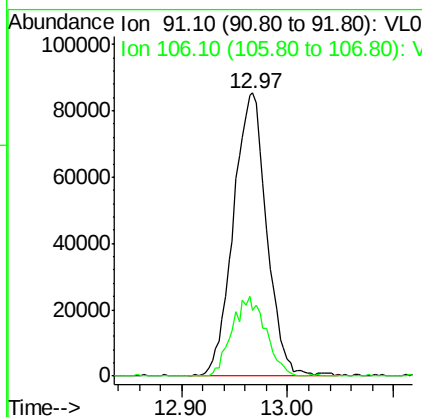
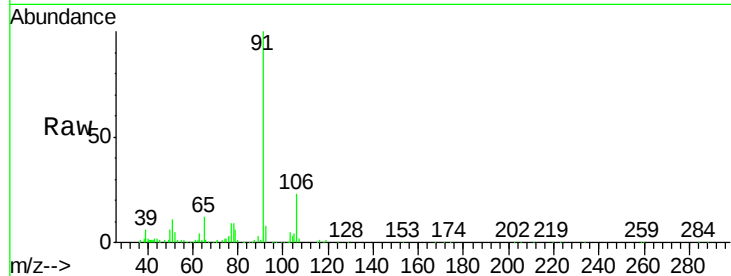
#58
Ethyl Benzene
Concen: 0.35 ppbv m
RT: 12.97 min Scan# 3695
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

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

Tot Ion: 91 Resp: 186500
Ion Ratio Lower Upper
91 100
106 23.4 26.5 39.7#

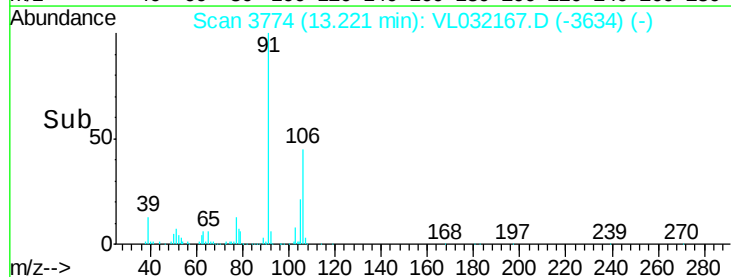
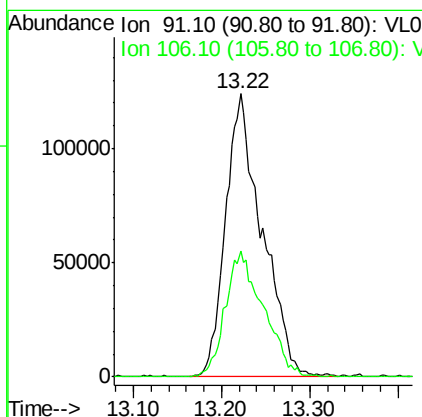
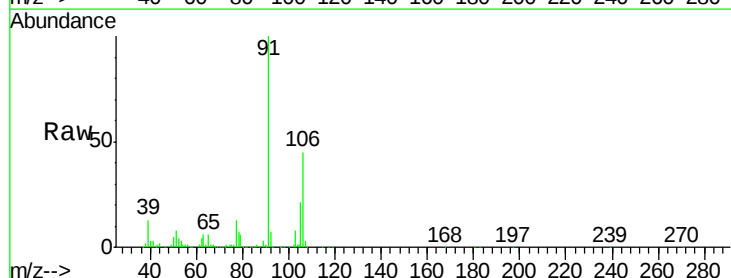
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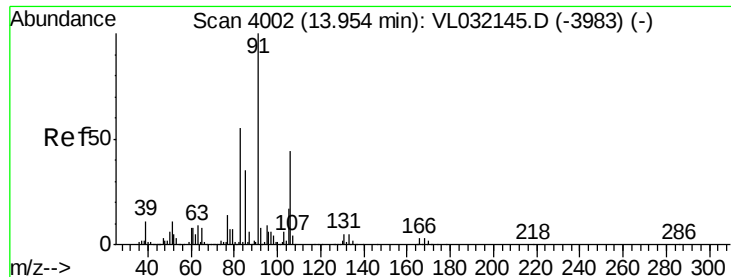
MMDadoda
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#59
m/p-Xylene
Concen: 0.83 ppbv m
RT: 13.22 min Scan# 3774
Delta R.T. -0.05 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

Tgt Ion: 91 Resp: 356888
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#





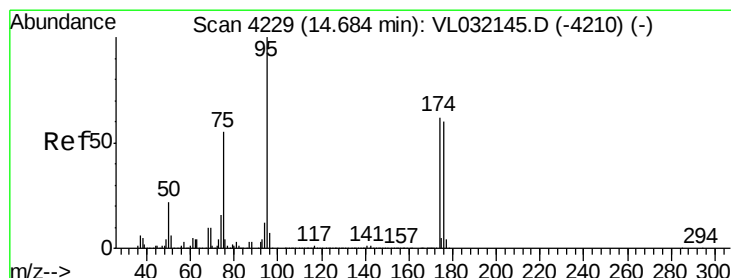
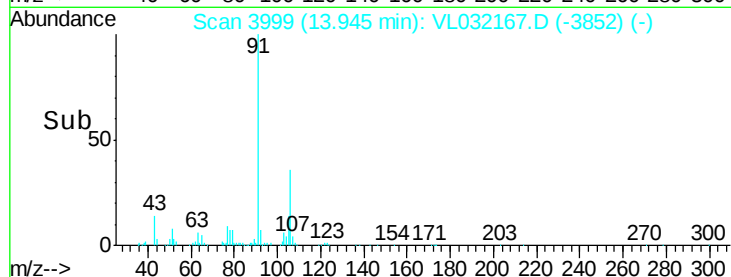
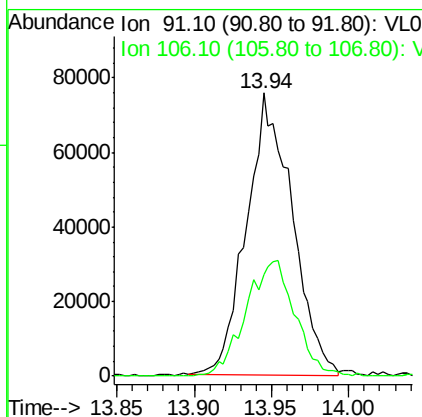
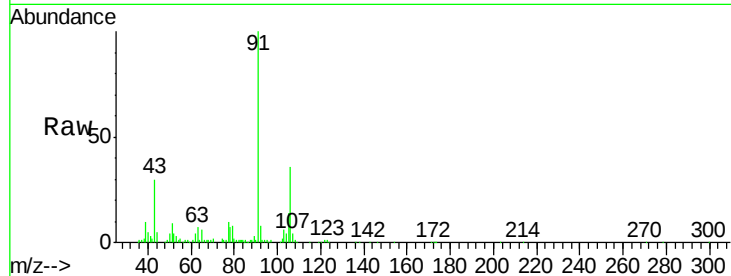
#60
o-Xylene
Concen: 0.36 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.03 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

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

Tot Ion: 91 Resp: 155238
Ion Ratio Lower Upper
91 100
106 44.2 23.3 69.8

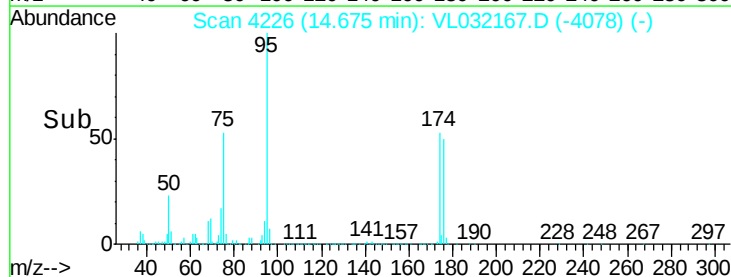
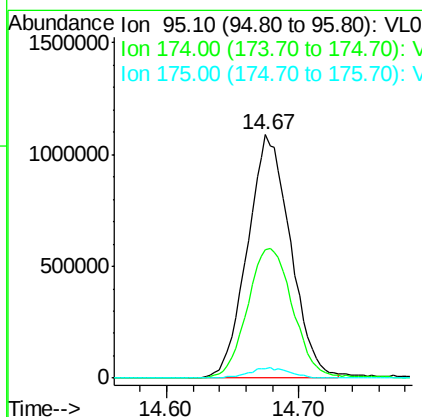
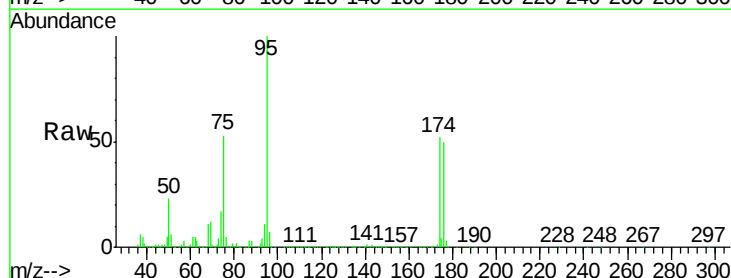
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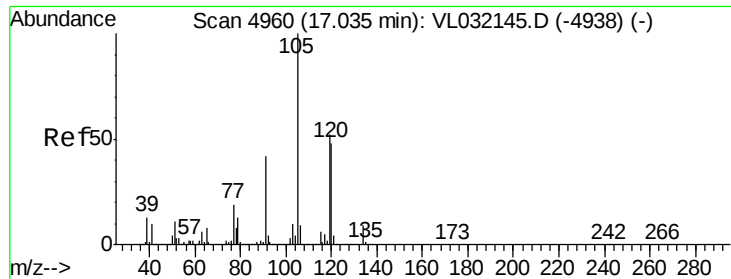
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.69 ppbv
RT: 14.67 min Scan# 4226
Delta R.T. -0.02 min
Lab File: VL032167.D
Acq: 30 Jun 2018 12:32

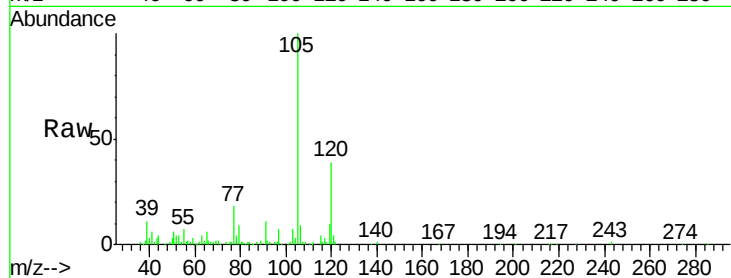
Tgt Ion: 95 Resp: 2453981
Ion Ratio Lower Upper
95 100
174 56.8 52.1 78.1
175 4.2 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.27 ppbv m
 RT: 17.02 min Scan# 4956
 Delta R.T. -0.03 min
 Lab File: VL032167.D
 Acq: 30 Jun 2018 12:32

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



Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	38.9	38.8	58.2
91	10.7	33.6	50.4#
77	17.7	16.0	24.0

Manual Integrations
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 7/2/2018 4:26:53 PM

