

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032170.D
 Acq On : 30 Jun 2018 14:29
 Operator : SY/AP
 Sample : J3601-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-C-INDOORDL

Manual Integrations
 APPROVED

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 7/2/2018 4:26:20 PM

Quant Time: Jul 02 12:07:20 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	1421197	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3387782	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3690389	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2777258	9.85	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.23	50	86034	0.93	ppbv	95
9) Propene	3.09	41	186285	2.30	ppbv	91
13) Ethanol	3.71	45	914848	37.29	ppbv	99
15) Acetone	3.97	43	881261	5.30	ppbv	97
16) 1,3-Butadiene	3.42	39	37656	0.47	ppbv	89
19) Isopropyl Alcohol	4.09	45	1440010m	10.43	ppbv	
20) Methylene Chloride	4.48	84	20846	0.34	ppbv #	87
26) Hexane	5.86	57	39509m	0.25	ppbv	
34) 2-Butanone	5.41	43	102039	0.47	ppbv	97
36) Benzene	7.09	78	126877	0.39	ppbv	99
53) Toluene	10.04	91	414341	1.05	ppbv	97
58) Ethyl Benzene	12.96	91	77586m	0.13	ppbv	
59) m/p-Xylene	13.21	91	195075m	0.41	ppbv	
60) o-Xylene	13.95	91	73050	0.15	ppbv	94
74) 1,2,4-Trimethylbenzene	17.03	105	96718	0.17	ppbv #	74

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

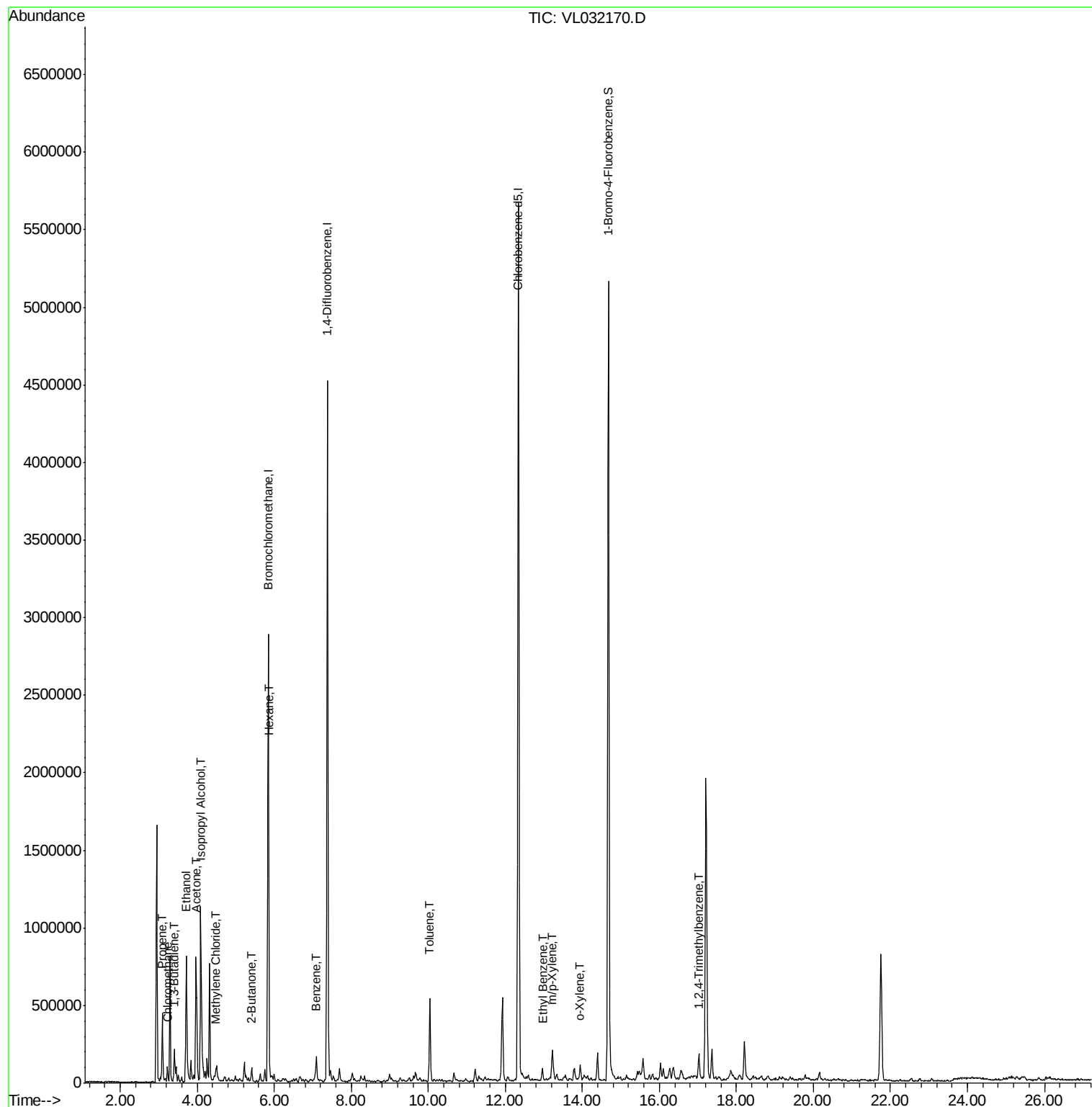
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
Data File : VL032170.D
Acq On : 30 Jun 2018 14:29
Operator : SY/AP
Sample : J3601-07DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

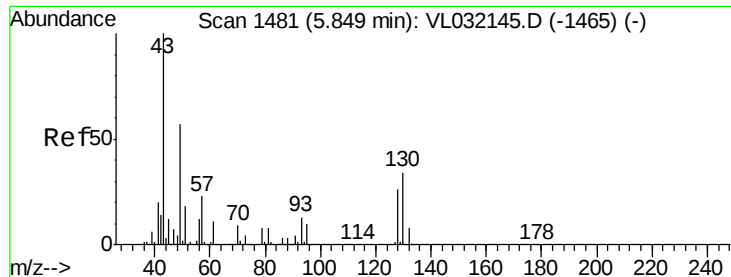
Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-C-INDOORDL

Manual Integrations
APPROVED

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7/2/2018 4:26:20 PM

Quant Time: Jul 02 12:07:20 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: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 49 Resp: 1421197

Ion Ratio Lower Upper

49 100

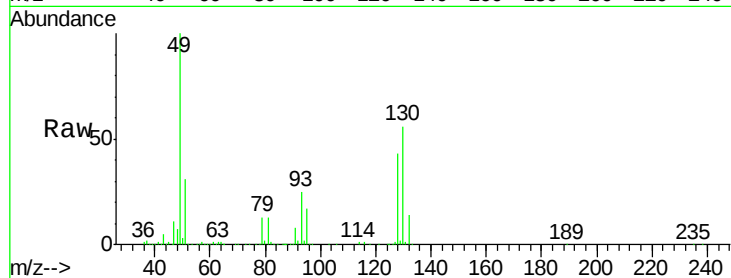
128 44.5 23.4 70.0

130 57.3 30.3 90.9

Manual Integrations
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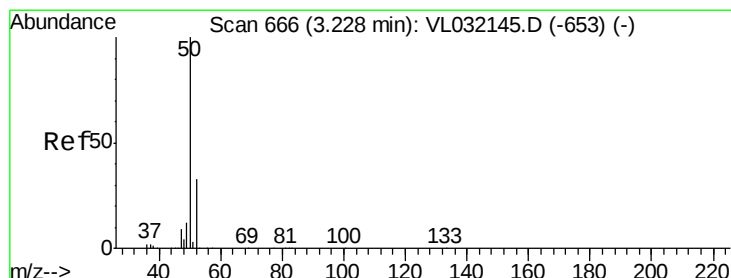
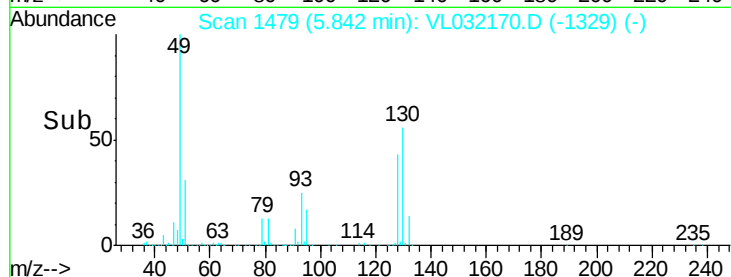
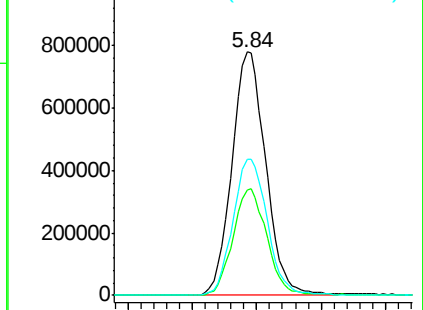
7/2/2018 4:26:20 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 0.93 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032170.D

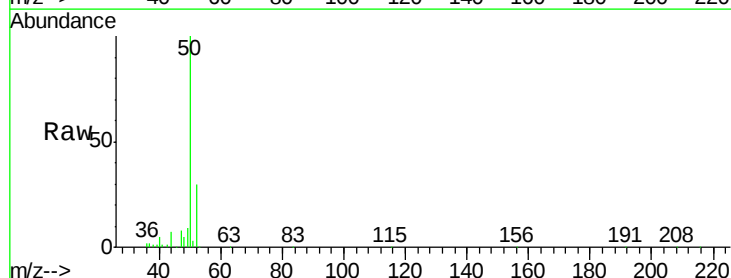
Acq: 30 Jun 2018 14:29

Tgt Ion: 50 Resp: 86034

Ion Ratio Lower Upper

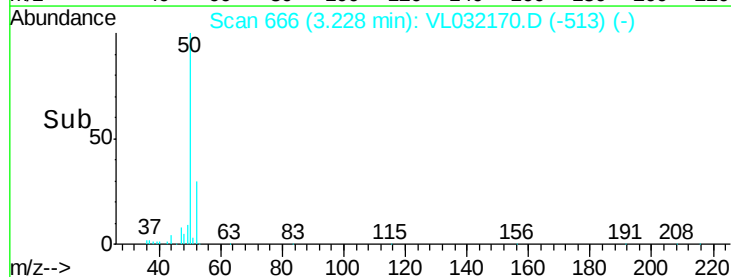
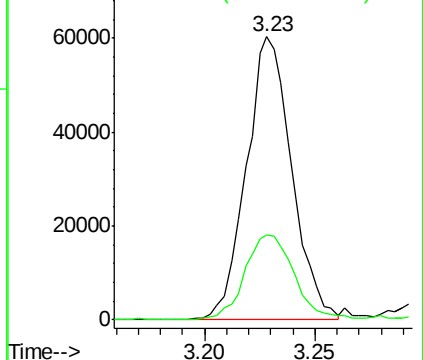
50 100

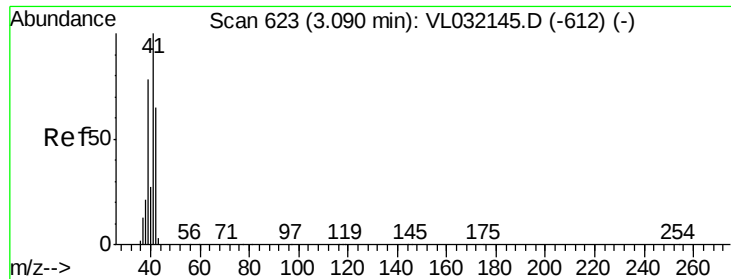
52 29.9 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.30 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 41 Resp: 186285

Ion Ratio Lower Upper

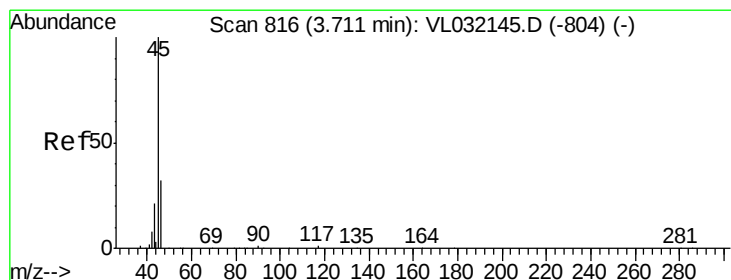
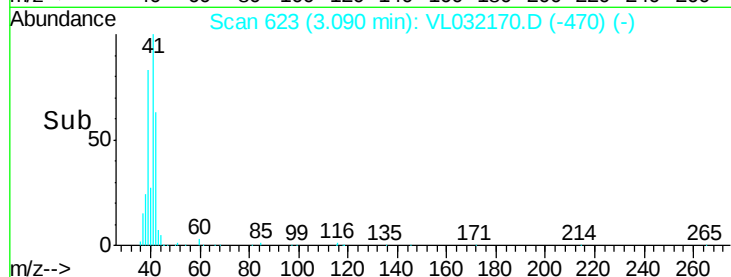
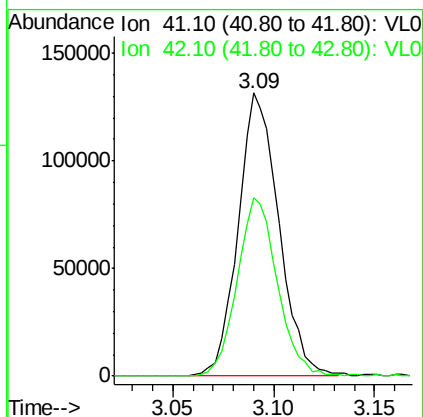
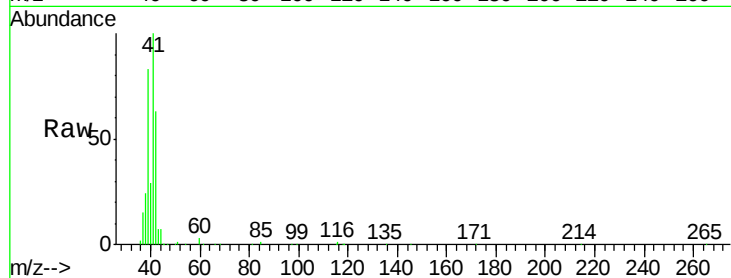
41 100

42 62.8 56.2 84.4

Manual Integrations
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#13

Ethanol

Concen: 37.29 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL032170.D

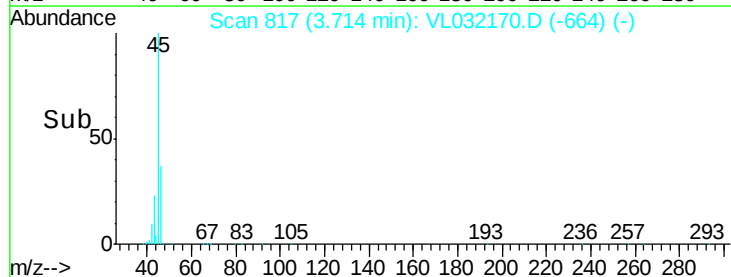
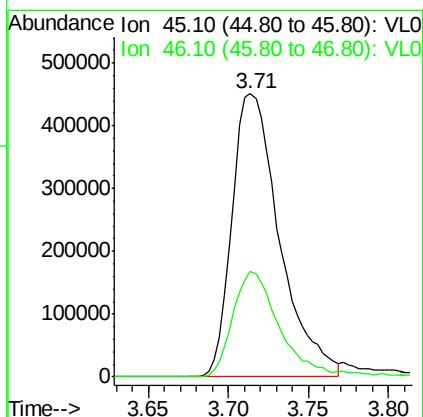
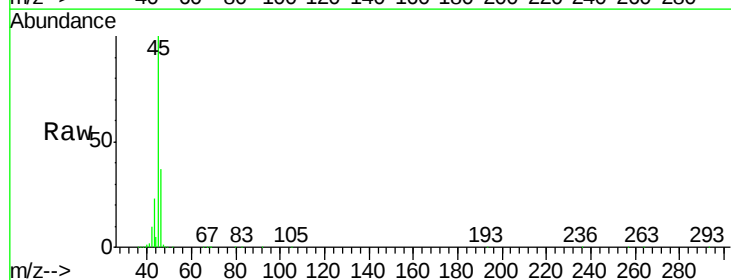
Acq: 30 Jun 2018 14:29

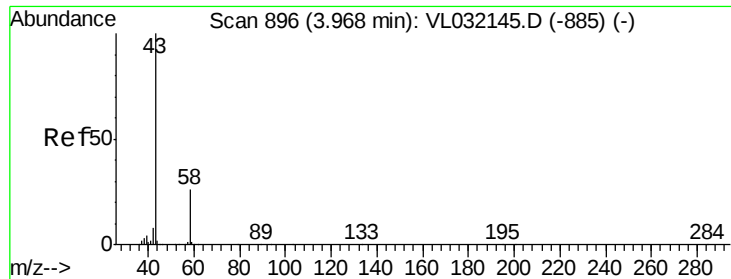
Tgt Ion: 45 Resp: 914848

Ion Ratio Lower Upper

45 100

46 37.1 14.6 58.4





#15

Acetone

Concen: 5.30 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 43 Resp: 881261

Ion Ratio Lower Upper

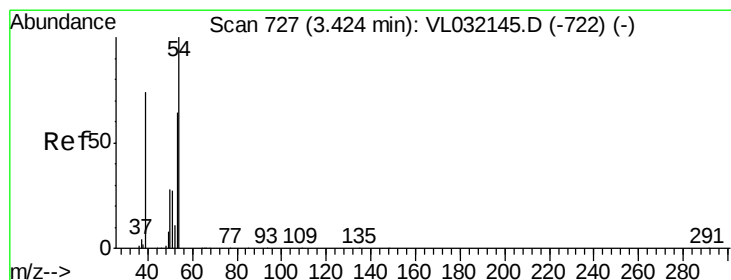
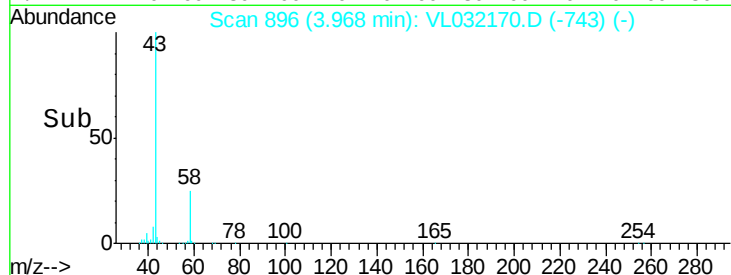
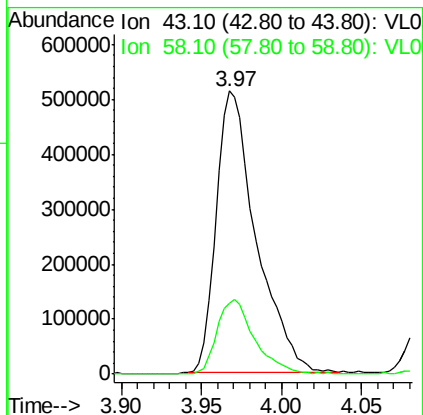
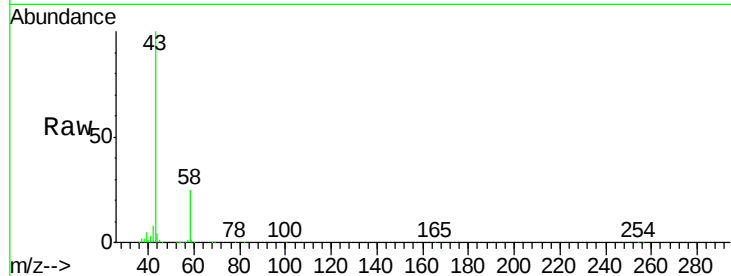
43 100

58 25.2 21.4 32.0

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#16

1,3-Butadiene

Concen: 0.47 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.01 min

Lab File: VL032170.D

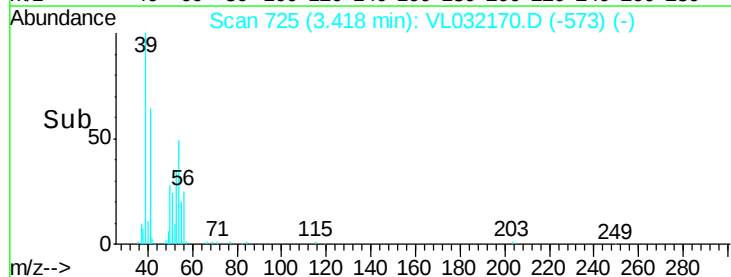
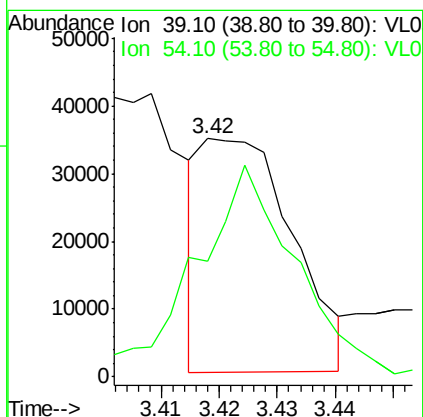
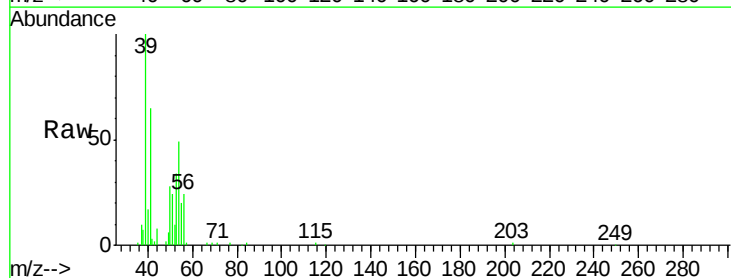
Acq: 30 Jun 2018 14:29

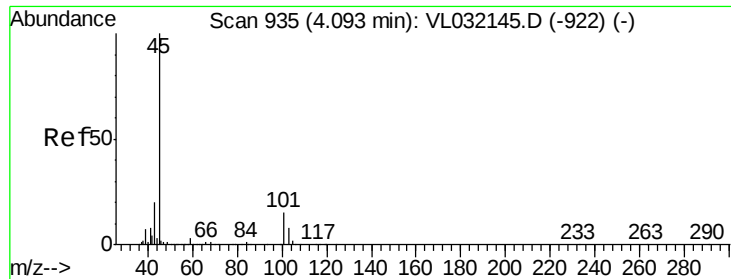
Tgt Ion: 39 Resp: 37656

Ion Ratio Lower Upper

39 100

54 104.9 75.8 113.6





#19

Isopropyl Alcohol

Concen: 10.43 ppbv m

RT: 4.09 min Scan# 935

Delta R.T. -0.01 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 45 Resp: 1440010

Ion Ratio Lower Upper

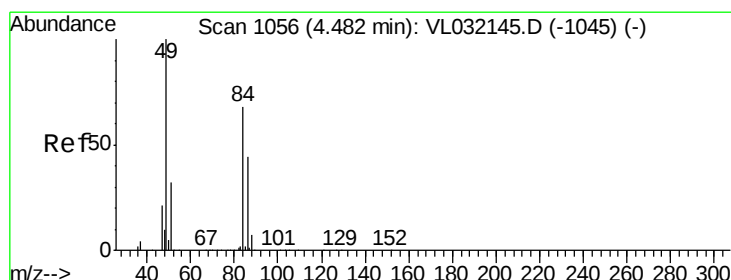
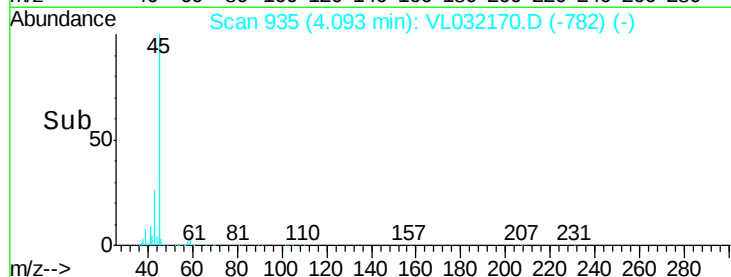
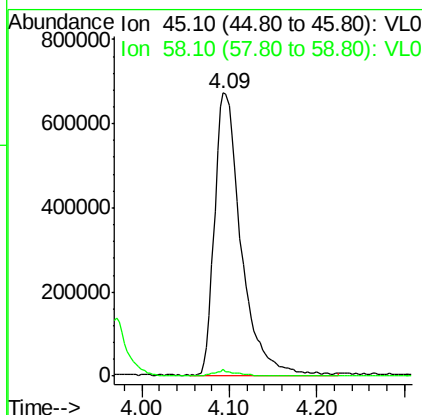
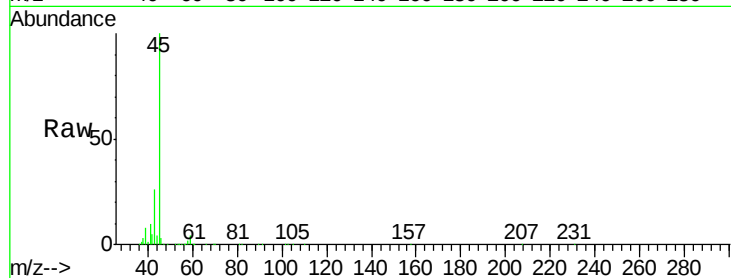
45 100

58 0.0 29.4 44.0#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.34 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Tgt Ion: 84 Resp: 20846

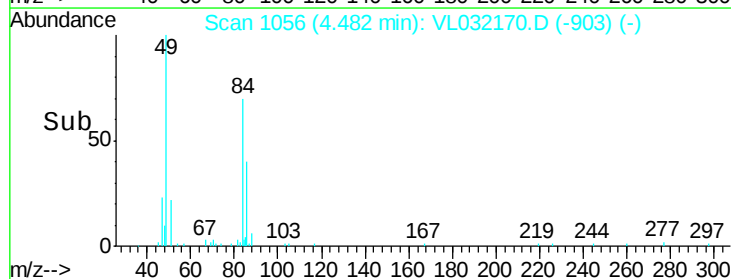
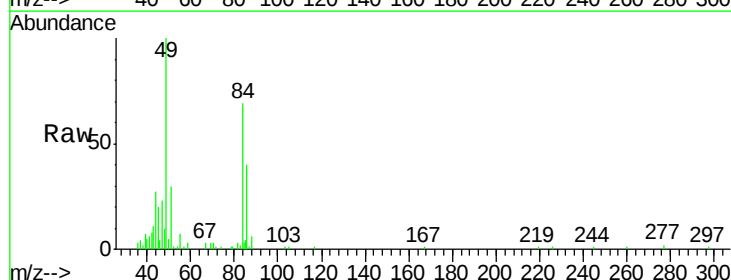
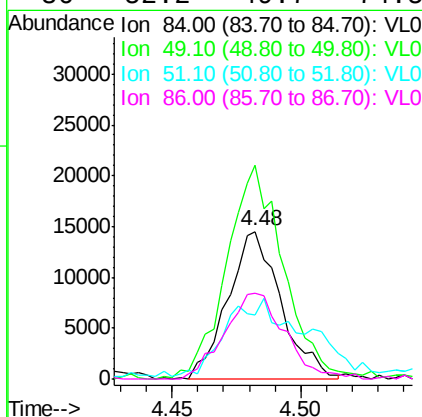
Ion Ratio Lower Upper

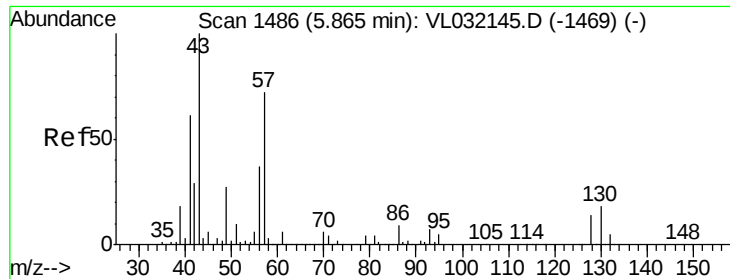
84 100

49 133.1 119.6 179.4

51 35.1 36.3 54.5#

86 52.2 49.7 74.5





#26

Hexane

Concen: 0.25 ppbv m

RT: 5.86 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 57 Resp: 39509

Ion Ratio Lower Upper

57 100

41 0.0 68.6 103.0#

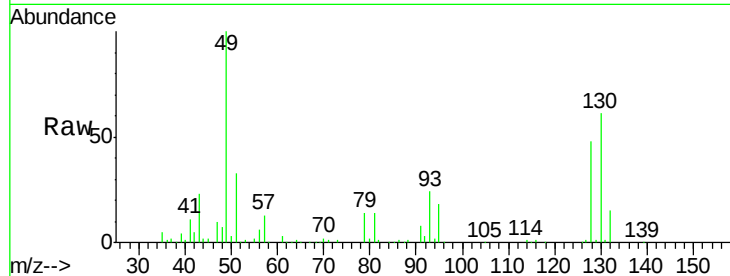
43 265.5 168.6 252.8#

56 0.0 41.0 61.6#

Manual Integrations
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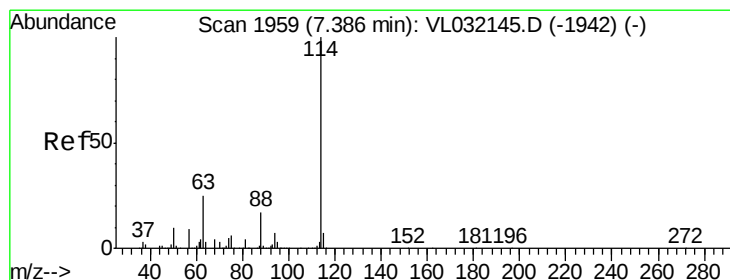
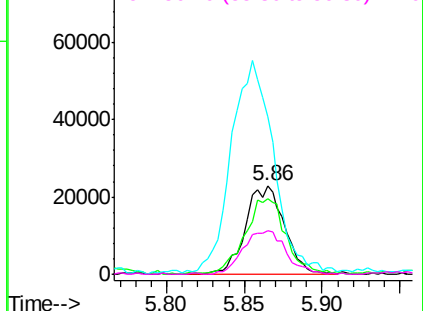
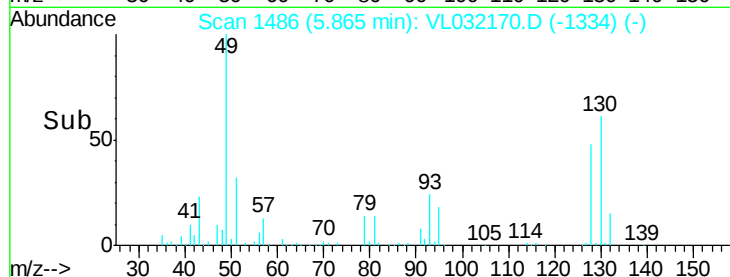


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

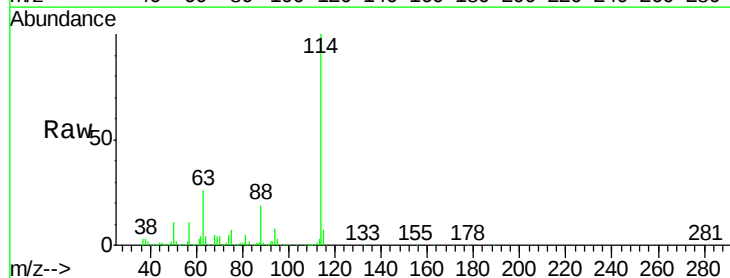
Tgt Ion:114 Resp: 3387782

Ion Ratio Lower Upper

114 100

63 26.4 19.1 28.7

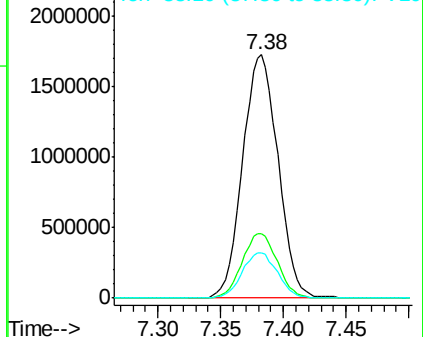
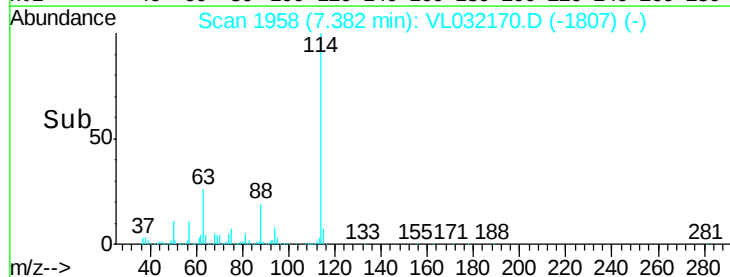
88 18.8 13.9 20.9

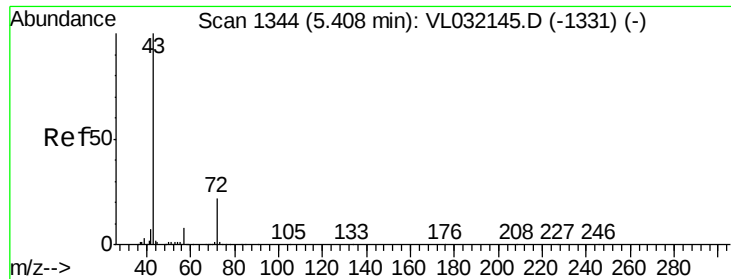


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





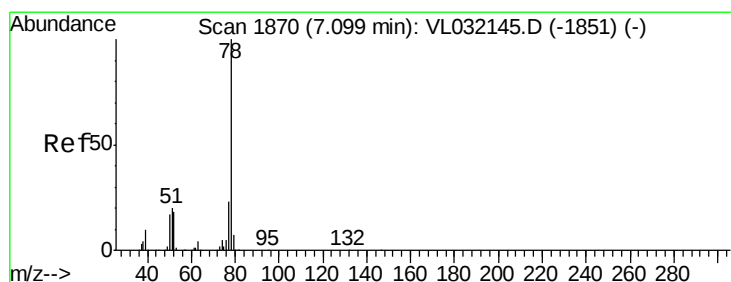
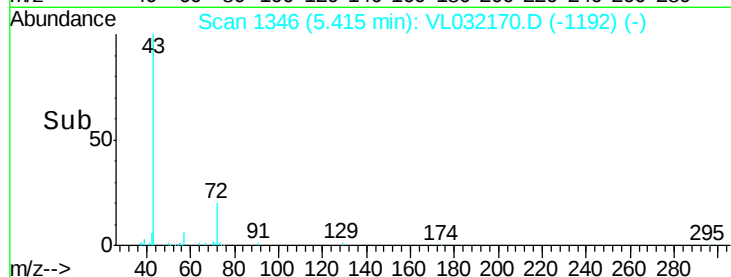
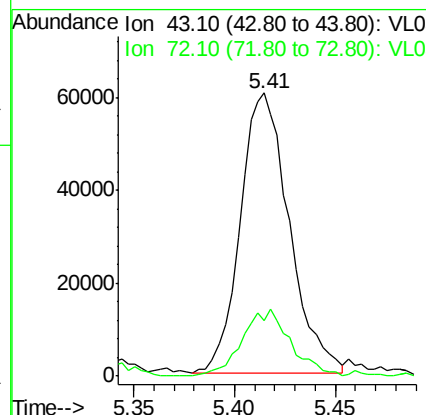
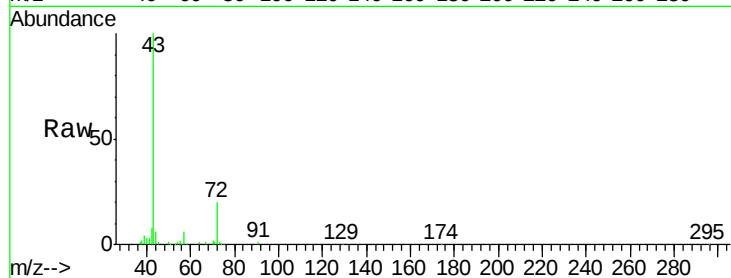
#34
2-Butanone
Concen: 0.47 ppbv
RT: 5.41 min Scan# 1346
Delta R.T. -0.01 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-C-INDOORDL

Tot Ion: 43 Resp: 102039
Ion Ratio Lower Upper
43 100
72 24.5 18.4 27.6

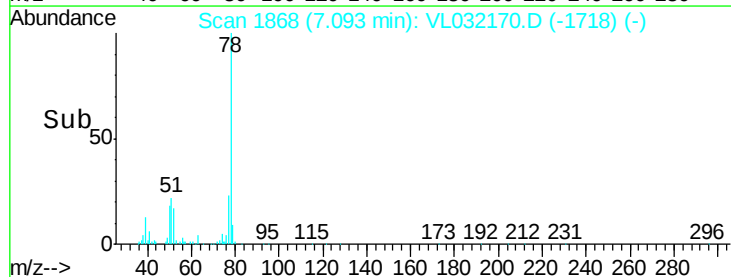
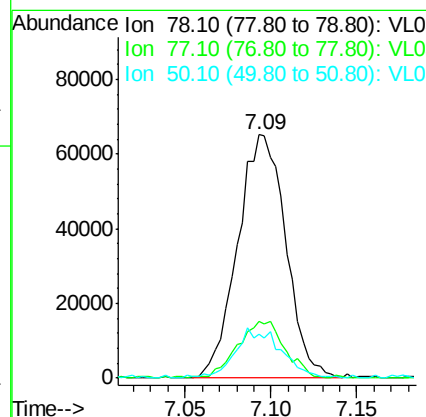
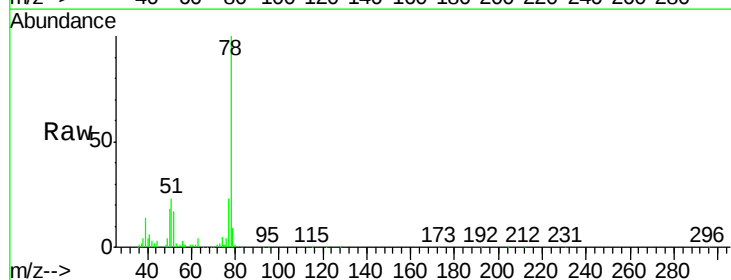
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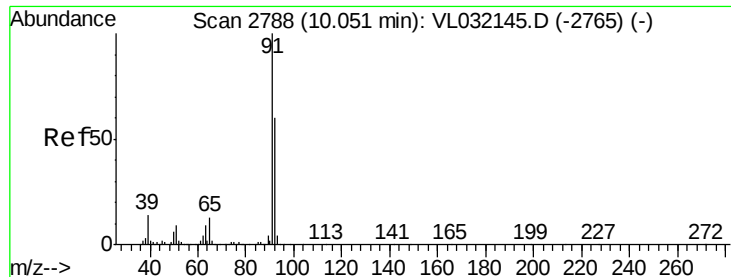
MMDadoda
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#36
Benzene
Concen: 0.39 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. -0.02 min
Lab File: VL032170.D
Acq: 30 Jun 2018 14:29

Tgt Ion: 78 Resp: 126877
Ion Ratio Lower Upper
78 100
77 22.5 17.7 26.5
50 18.3 14.0 21.0





#53

Toluene

Concen: 1.05 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 91 Resp: 414341

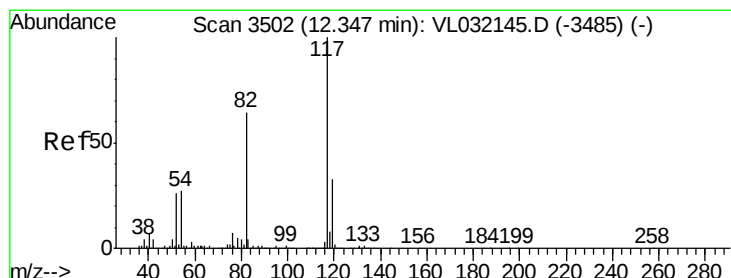
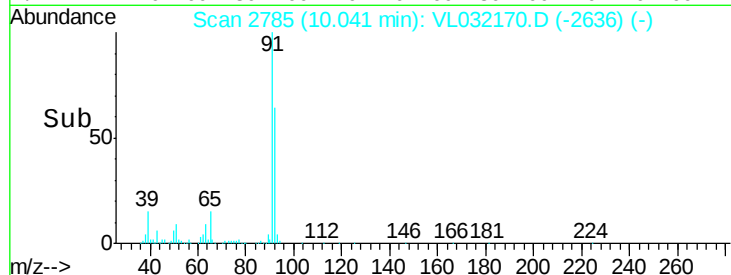
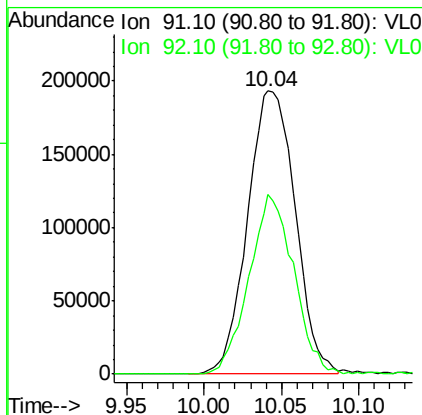
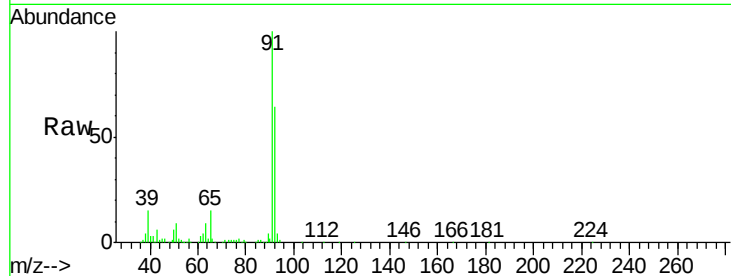
Ion Ratio Lower Upper

91 100

92 59.5 49.2 73.8

Manual Integrations
APPROVED

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

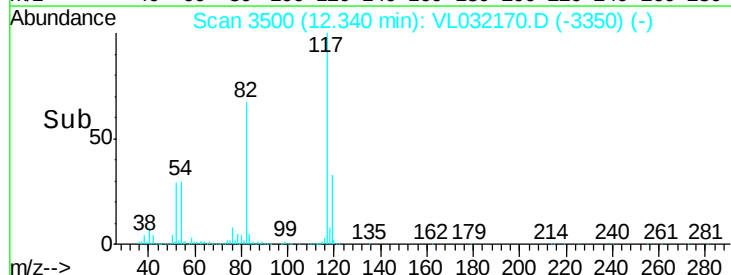
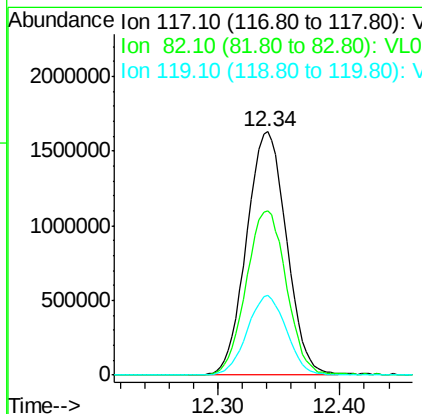
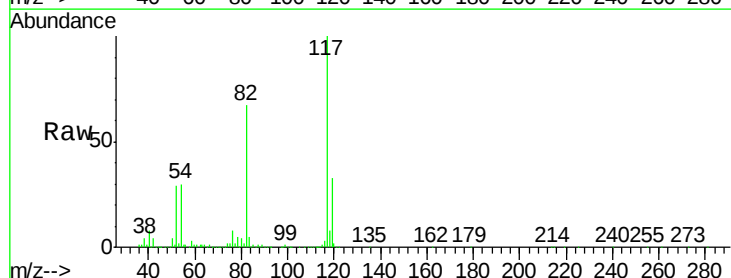
Tgt Ion: 117 Resp: 3690389

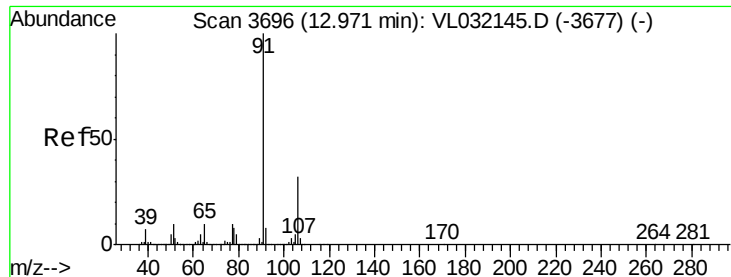
Ion Ratio Lower Upper

117 100

82 68.5 47.8 71.8

119 32.5 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.13 ppbv m

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 91 Resp: 77586

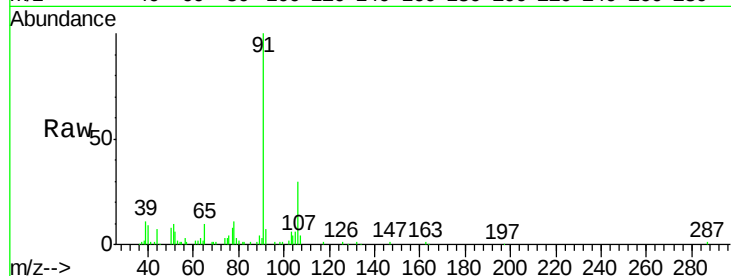
Ion Ratio Lower Upper

91 100

106 30.2 26.5 39.7

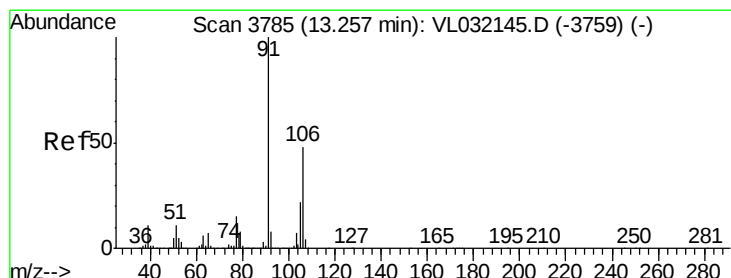
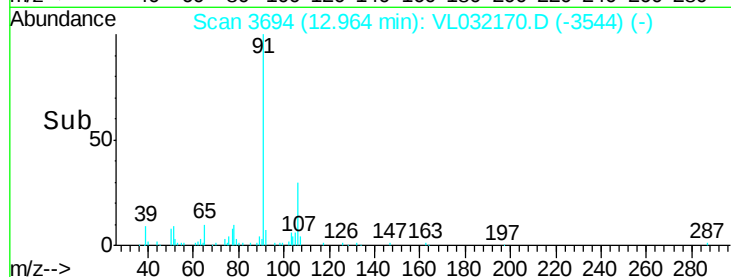
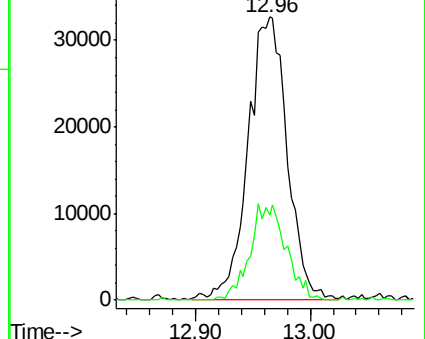
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.41 ppbv m

RT: 13.21 min Scan# 3771

Delta R.T. -0.06 min

Lab File: VL032170.D

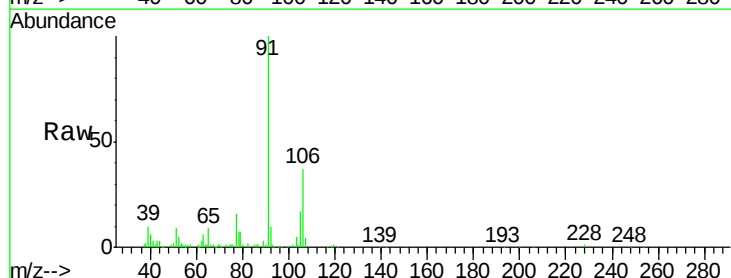
Acq: 30 Jun 2018 14:29

Tgt Ion: 91 Resp: 195075

Ion Ratio Lower Upper

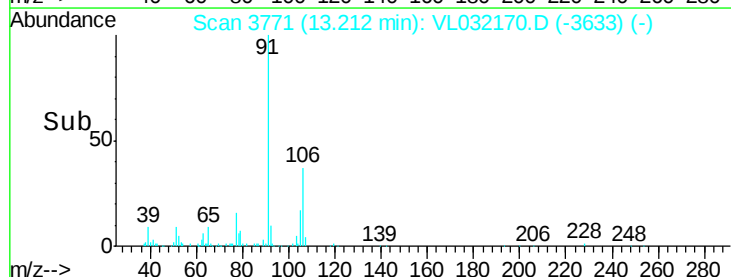
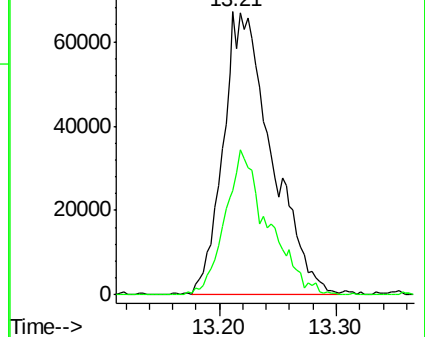
91 100

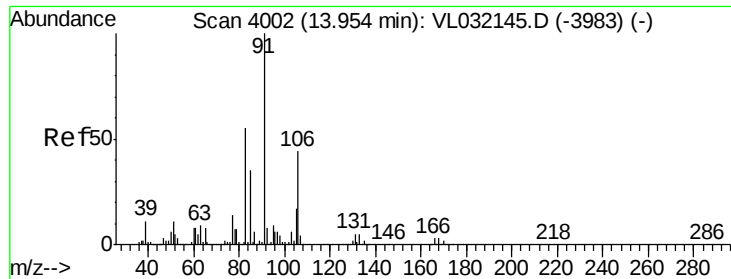
106 0.0 38.6 58.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 0.15 ppbv

RT: 13.95 min Scan# 4000

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-C-INDOORDL

Tot Ion: 91 Resp: 73050

Ion Ratio Lower Upper

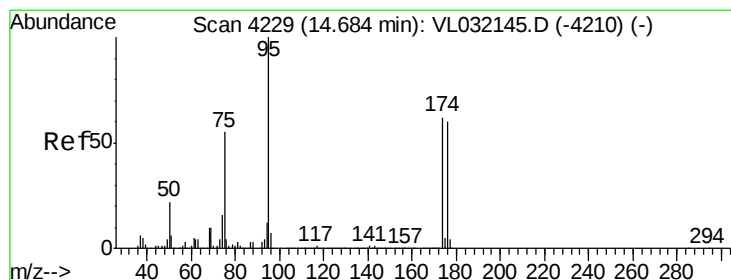
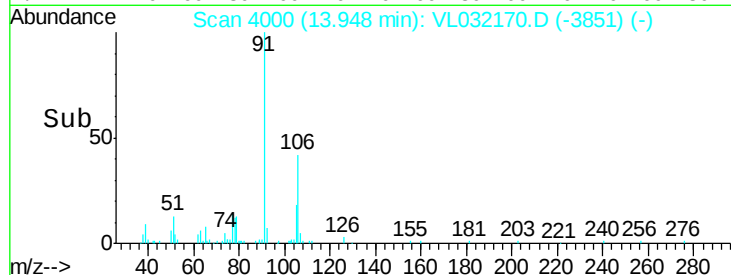
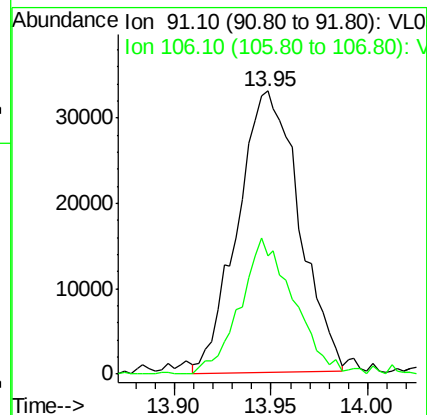
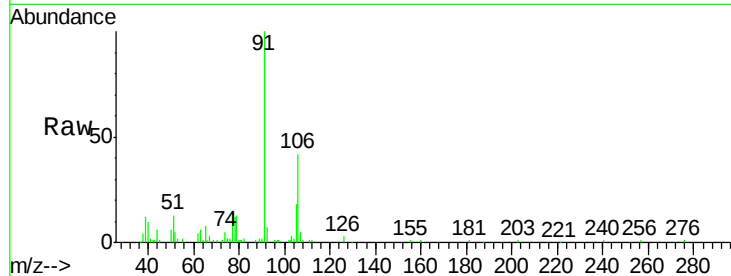
91 100

106 42.7 23.3 69.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.85 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. -0.02 min

Lab File: VL032170.D

Acq: 30 Jun 2018 14:29

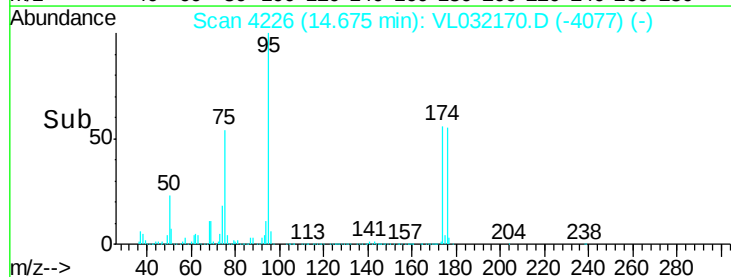
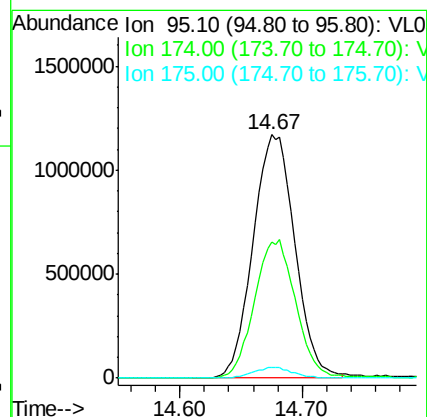
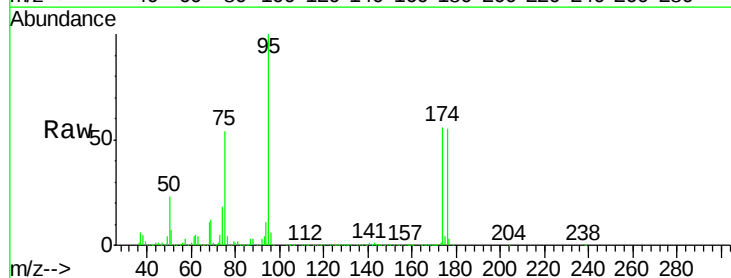
Tgt Ion: 95 Resp: 2777258

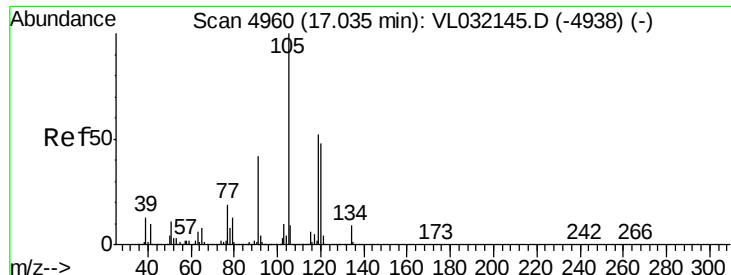
Ion Ratio Lower Upper

95 100

174 56.9 52.1 78.1

175 4.1 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.17 ppbv
 RT: 17.03 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032170.D
 Acq: 30 Jun 2018 14:29

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-C-INDOORDL

Tot Ion:	105	Resp:	96718
Ion Ratio	Lower	Upper	
105	100		
120	37.9	38.8	58.2#
91	12.6	33.6	50.4#
77	16.2	16.0	24.0

Manual Integrations
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