

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032606.D
 Acq On : 11 Oct 2018 16:03
 Operator : SY/AP
 Sample : J5316-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Manual Integrations
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 10/12/2018 2:07:30 PM

Quant Time: Oct 12 02:15:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1617789	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3542614	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3748024	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.61	95	2682194	9.49	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.19	50	10743	0.137	ppbv	92
9) Propene	3.05	41	53968	0.925	ppbv	99
13) Ethanol	3.68	45	18618	1.061	ppbv	88
15) Acetone	3.91	43	6408745	45.130	ppbv	96
17) tert-Butyl alcohol	4.40	59	74463m	4.173	ppbv	
26) Hexane	5.80	57	107789m	0.693	ppbv	
34) 2-Butanone	5.36	43	165131	0.783	ppbv	96
53) Toluene	9.98	91	4645973	13.317	ppbv	99
58) Ethyl Benzene	12.89	91	399449	0.879	ppbv	98
59) m/p-Xylene	13.15	91	1319059	3.261	ppbv	99
60) o-Xylene	13.88	91	347078	0.881	ppbv	99
79) Naphthalene	22.46	128	159120	0.493	ppbv	96

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

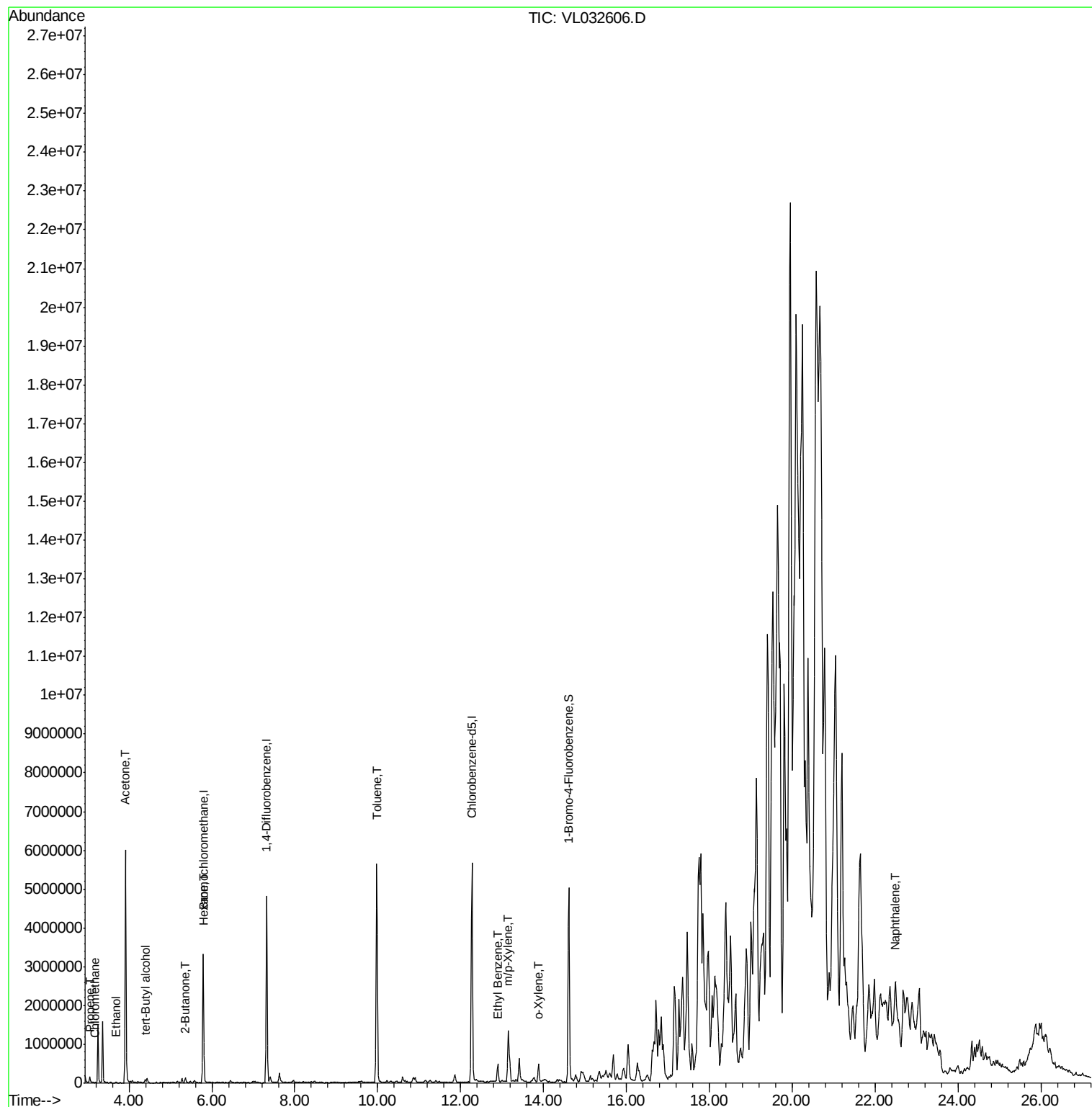
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
Data File : VL032606.D
Acq On : 11 Oct 2018 16:03
Operator : SY/AP
Sample : J5316-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

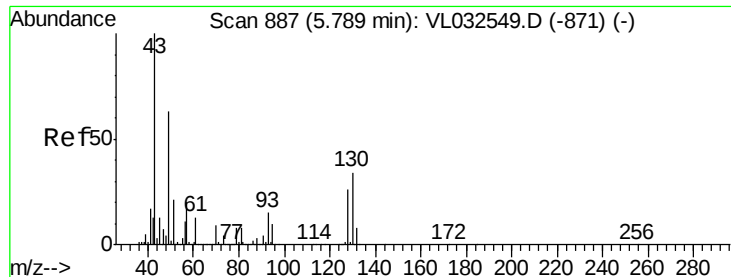
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

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Quant Time: Oct 12 02:15:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032606.D

Acq: 11 Oct 2018 16:03

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion: 49 Resp: 1617789

Ion Ratio Lower Upper

49 100

128 43.6 20.7 62.1

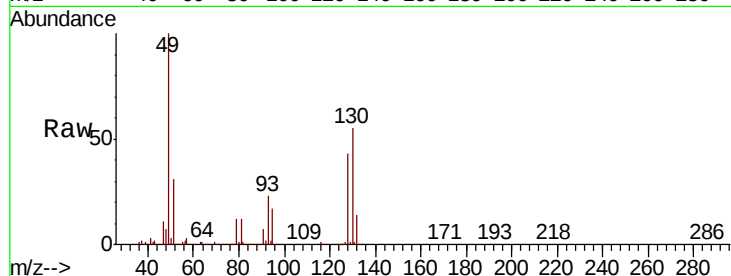
130 55.1 26.6 79.7

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

1200000

1000000

800000

600000

400000

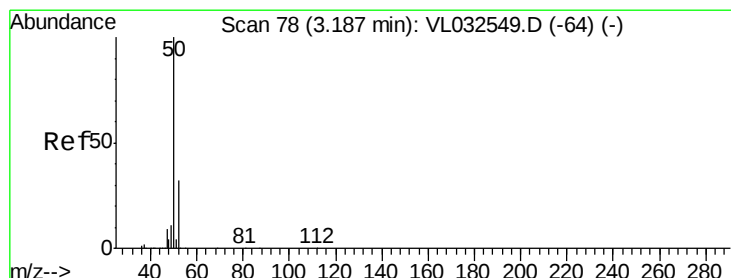
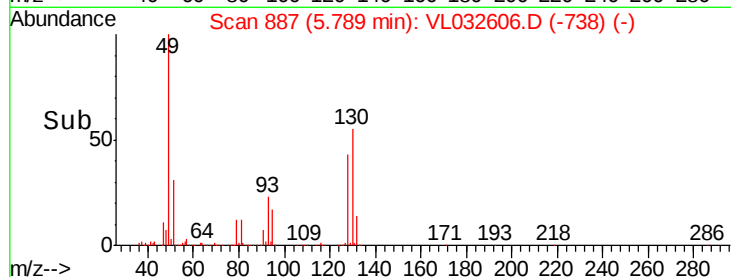
200000

0

5.79

5.70 5.75 5.80 5.85

Time-->



#4

Chloromethane

Concen: 0.137 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032606.D

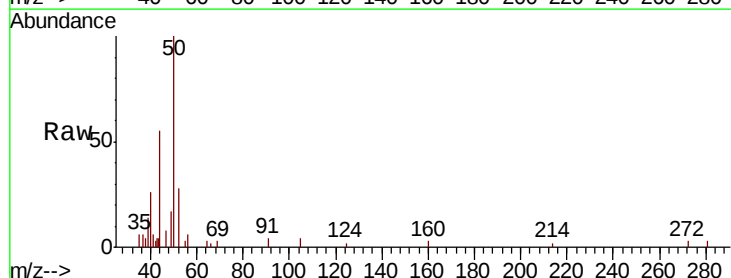
Acq: 11 Oct 2018 16:03

Tgt Ion: 50 Resp: 10743

Ion Ratio Lower Upper

50 100

52 27.7 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

8000

6000

4000

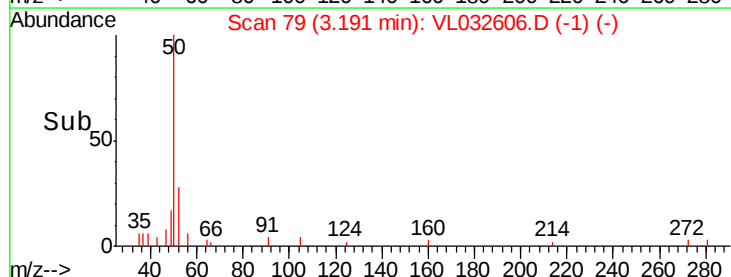
2000

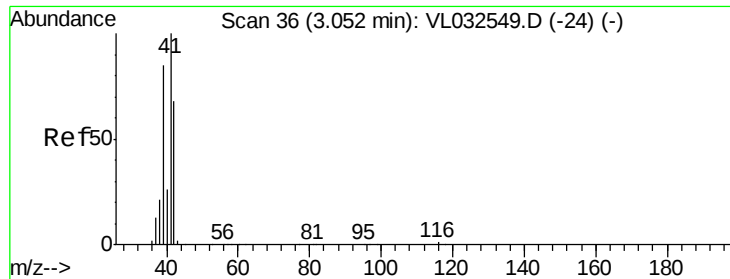
0

3.19

3.15 3.20

Time-->





#9

Propene

Concen: 0.925 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.02 min

Lab File: VL032606.D

Acq: 11 Oct 2018 16:03

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion: 41 Resp: 53968

Ion Ratio Lower Upper

41 100

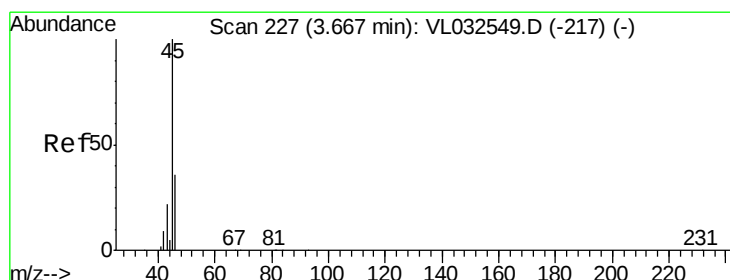
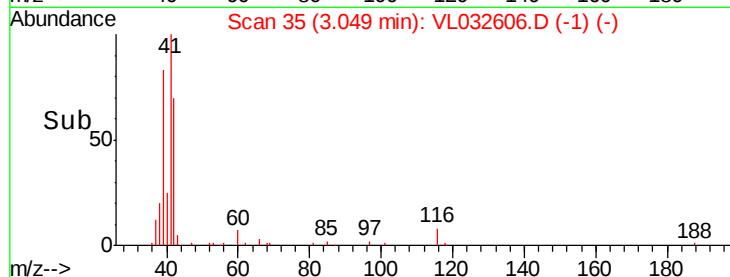
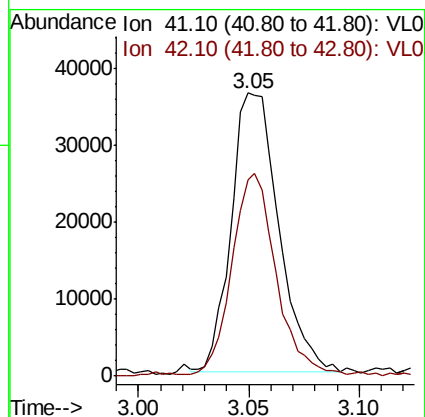
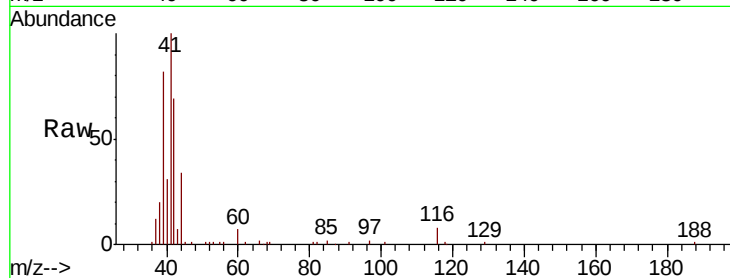
42 69.5 56.6 84.8

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#13

Ethanol

Concen: 1.061 ppbv

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032606.D

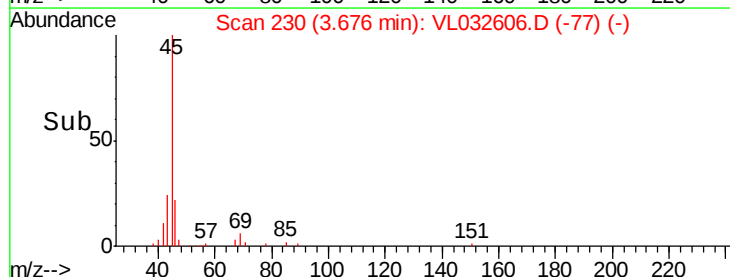
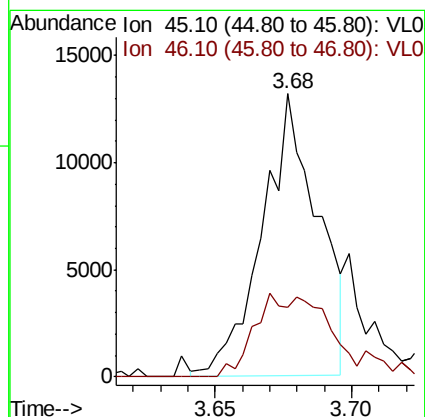
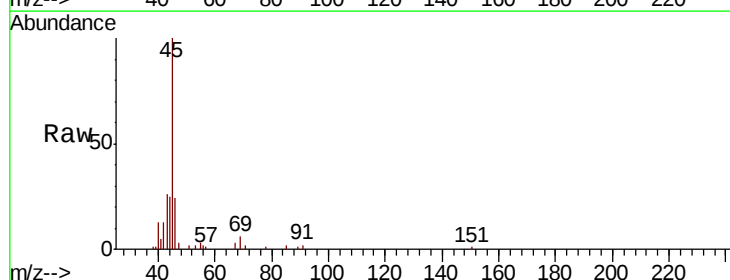
Acq: 11 Oct 2018 16:03

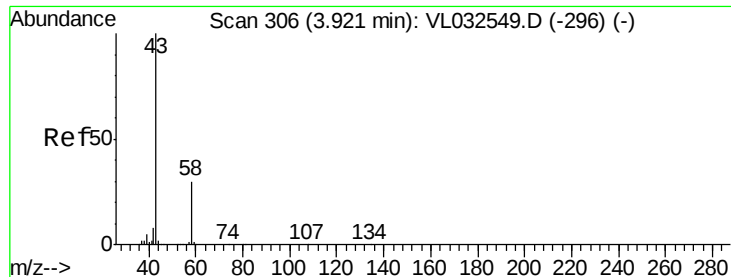
Tgt Ion: 45 Resp: 18618

Ion Ratio Lower Upper

45 100

46 42.7 14.2 56.8





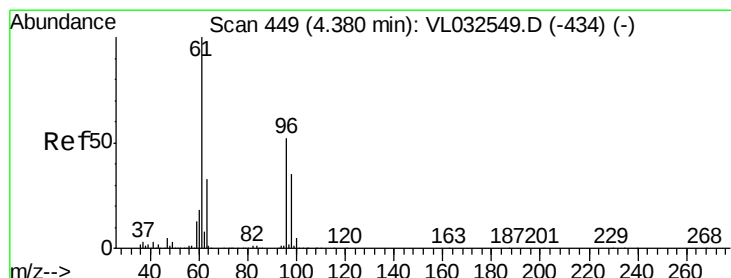
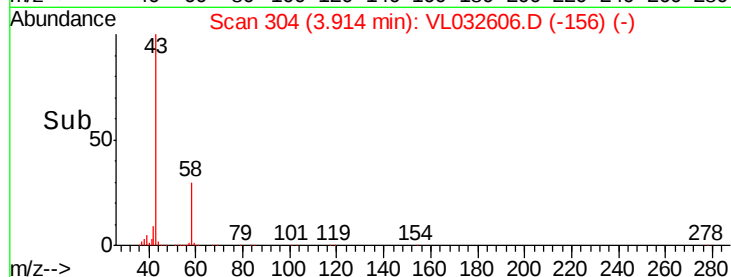
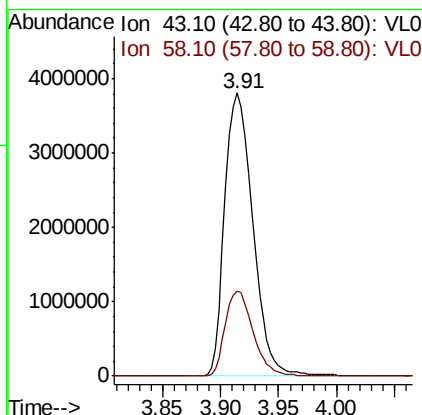
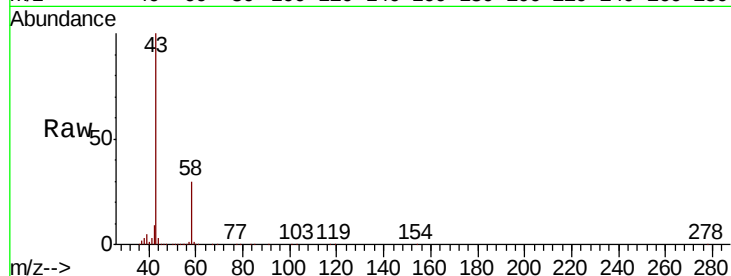
#15
Acetone
Concen: 45.130 ppbv
RT: 3.91 min Scan# 304
Delta R.T. -0.02 min
Lab File: VL032606.D
Acq: 11 Oct 2018 16:03

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

Tot Ion: 43 Resp: 6408745
Ion Ratio Lower Upper
43 100
58 30.1 22.6 33.8

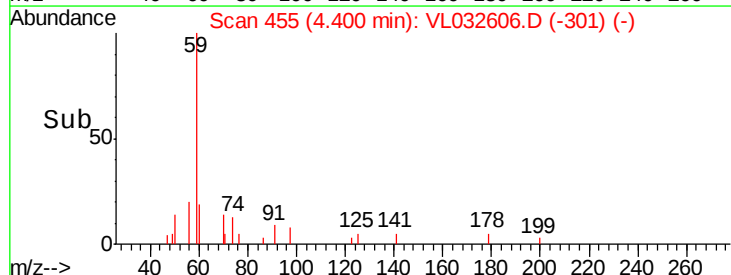
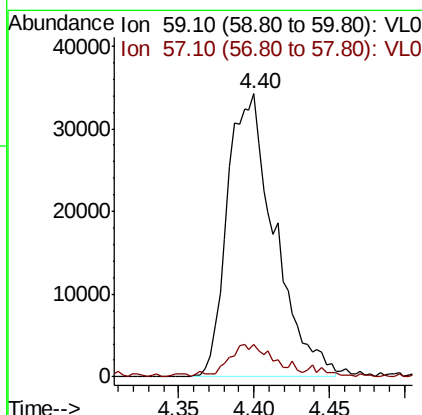
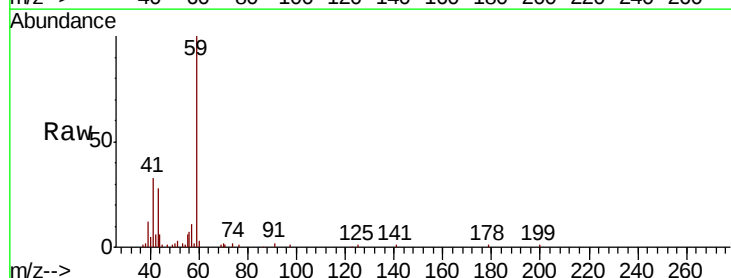
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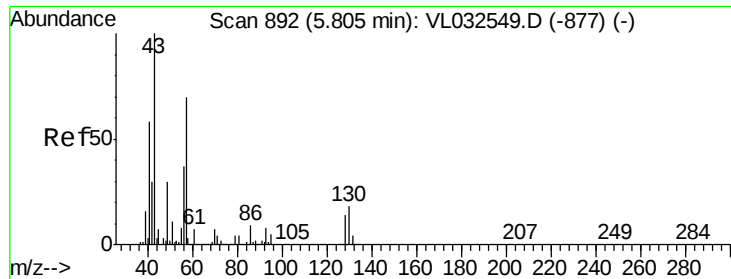
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#17
tert-Butyl alcohol
Concen: 4.173 ppbv m
RT: 4.40 min Scan# 455
Delta R.T. -0.01 min
Lab File: VL032606.D
Acq: 11 Oct 2018 16:03

Tgt Ion: 59 Resp: 74463
Ion Ratio Lower Upper
59 100
57 13.6 0.0 0.0#





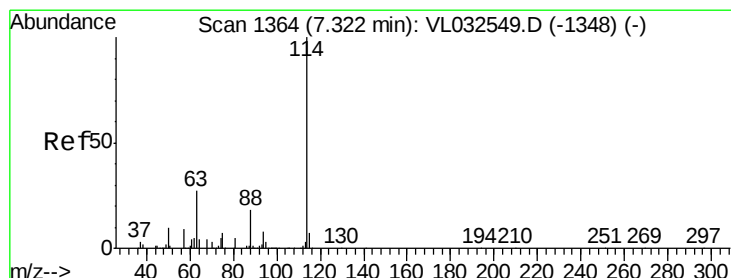
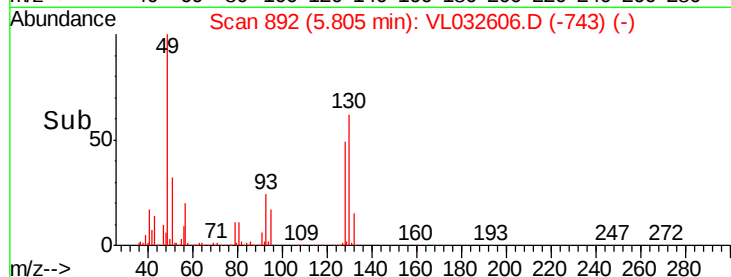
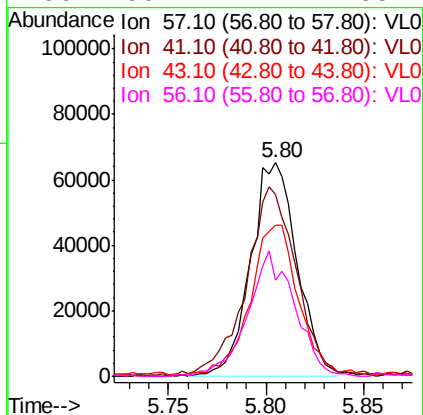
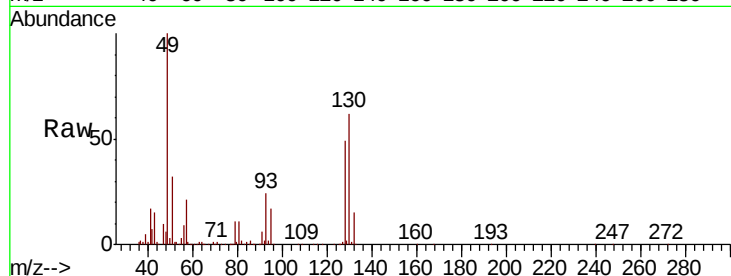
#26
Hexane
Concen: 0.693 ppbv m
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032606.D
Acq: 11 Oct 2018 16:03

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	99.0	69.0	103.4
43	72.3	172.1	258.1#
56	59.4	42.2	63.2

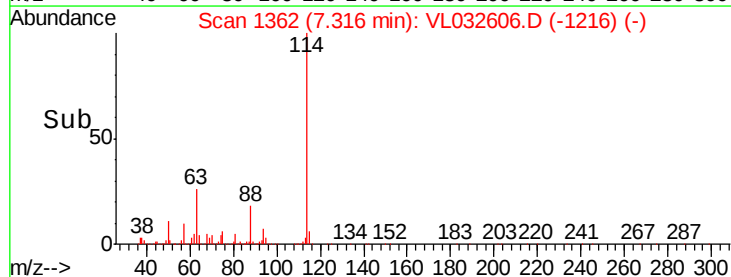
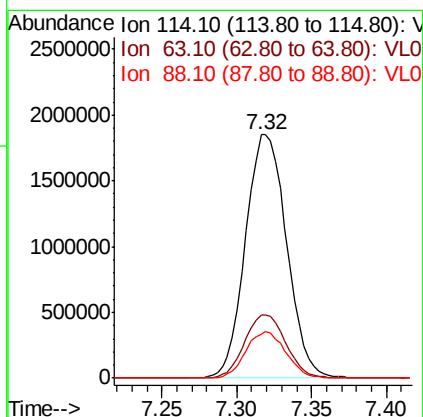
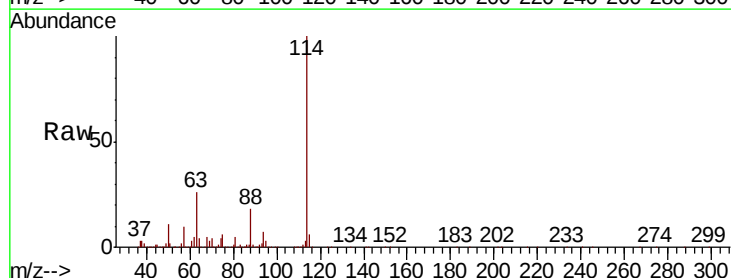
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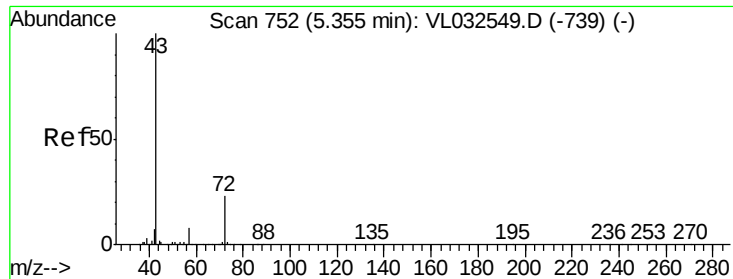
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.32 min Scan# 1362
Delta R.T. -0.03 min
Lab File: VL032606.D
Acq: 11 Oct 2018 16:03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	22.2	33.4
88	18.7	15.0	22.4





#34

2-Butanone

Concen: 0.783 ppbv

RT: 5.36 min Scan# 755

Delta R.T. -0.01 min

Lab File: VL032606.D

Acq: 11 Oct 2018 16:03

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion: 43 Resp: 165131

Ion Ratio Lower Upper

43 100

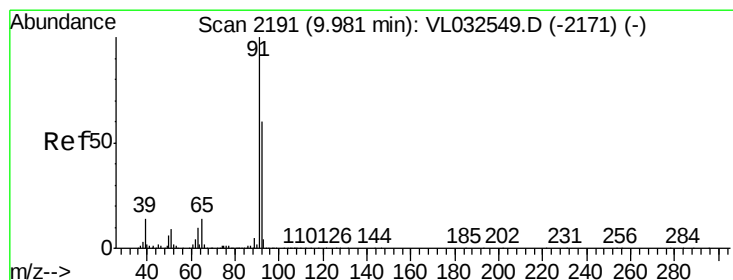
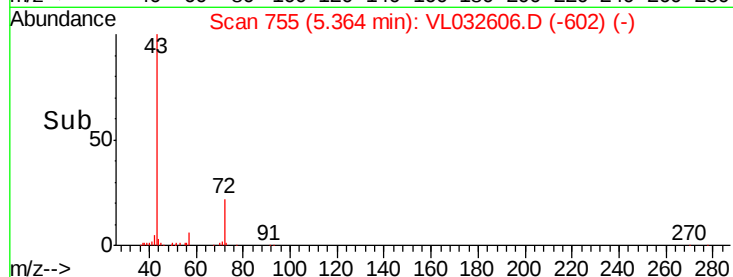
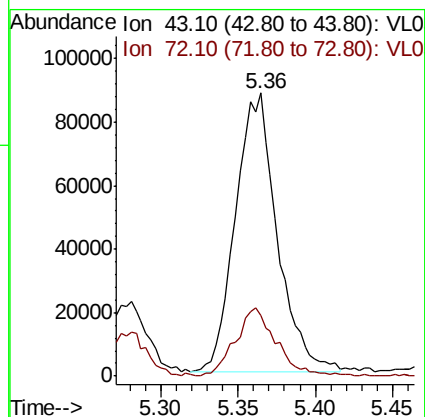
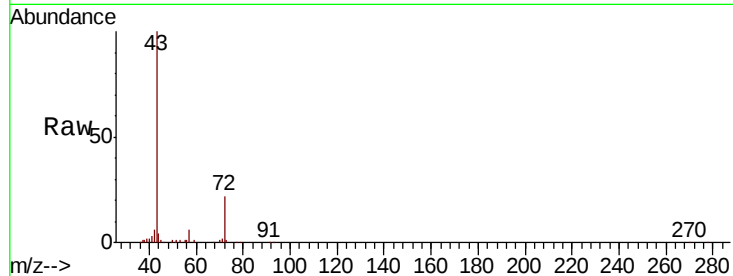
72 24.0 17.8 26.6

Manual Integrations

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#53

Toluene

Concen: 13.317 ppbv

RT: 9.98 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032606.D

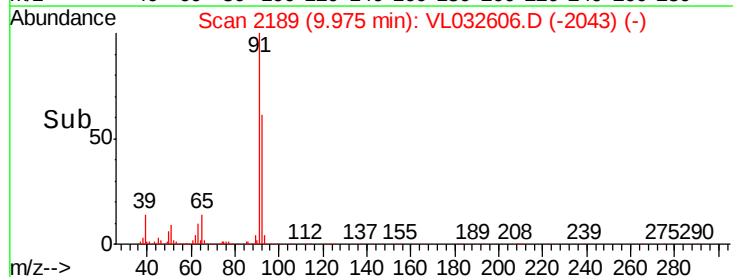
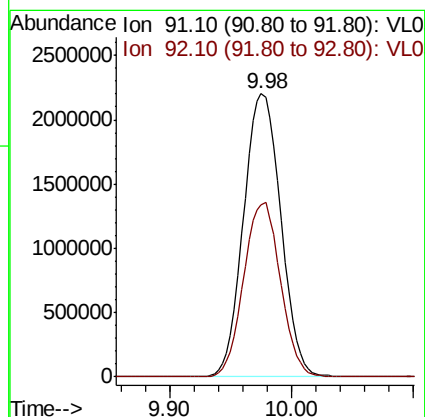
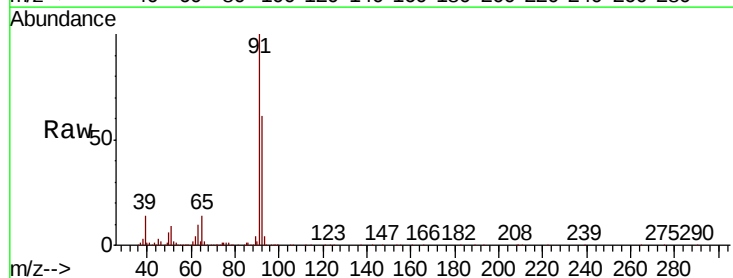
Acq: 11 Oct 2018 16:03

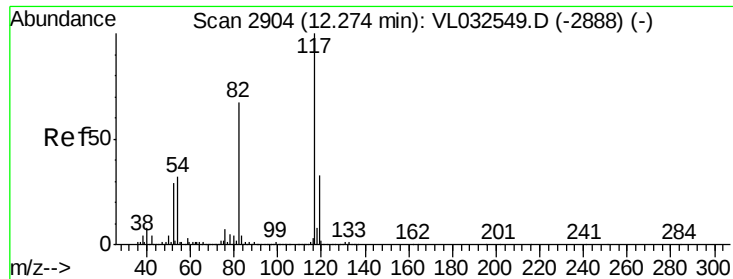
Tgt Ion: 91 Resp: 4645973

Ion Ratio Lower Upper

91 100

92 60.8 48.1 72.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032606.D

Acq: 11 Oct 2018 16:03

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:117 Resp: 3748024

Ion Ratio Lower Upper

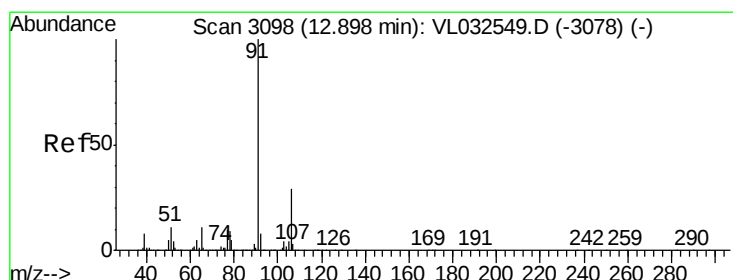
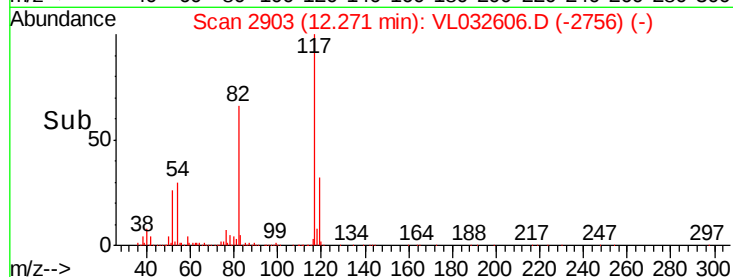
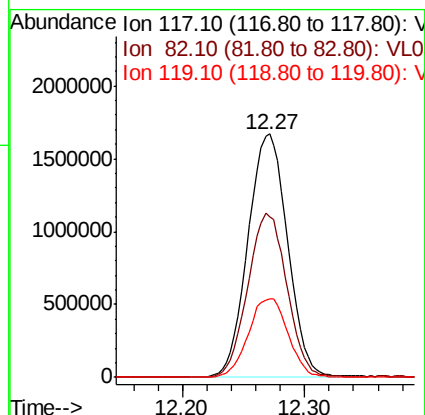
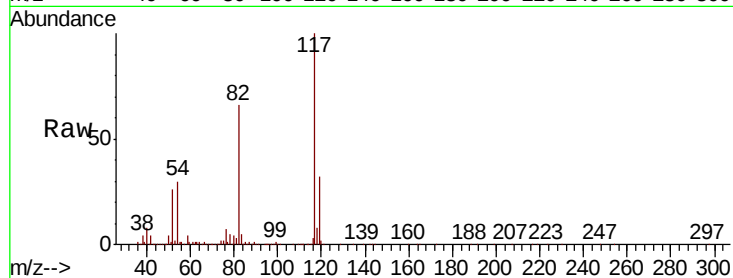
117 100

82 66.6 53.0 79.6

119 32.6 45.9 68.9#

Manual Integrations
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#58

Ethyl Benzene

Concen: 0.879 ppbv

RT: 12.89 min Scan# 3097

Delta R.T. -0.03 min

Lab File: VL032606.D

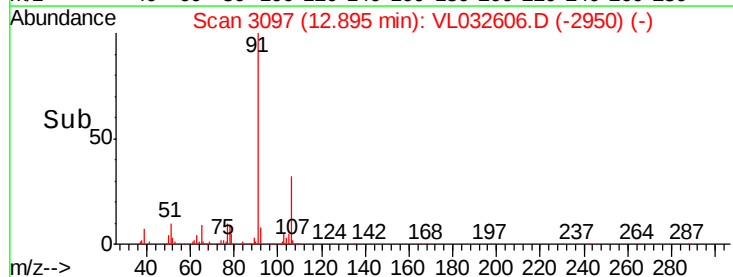
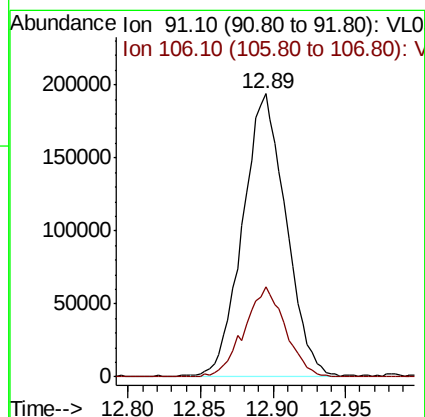
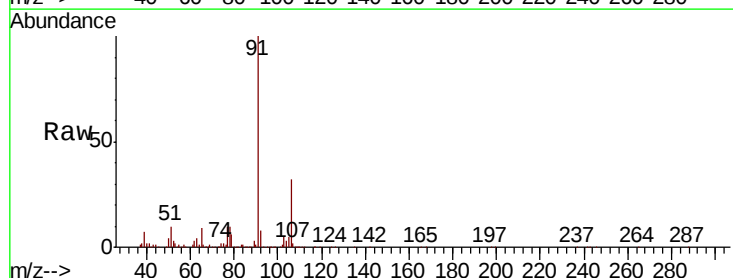
Acq: 11 Oct 2018 16:03

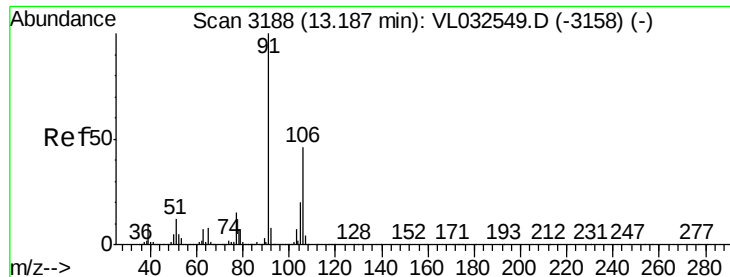
Tgt Ion: 91 Resp: 399449

Ion Ratio Lower Upper

91 100

106 32.0 24.8 37.2





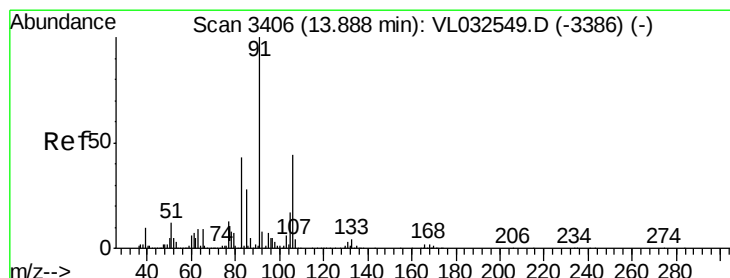
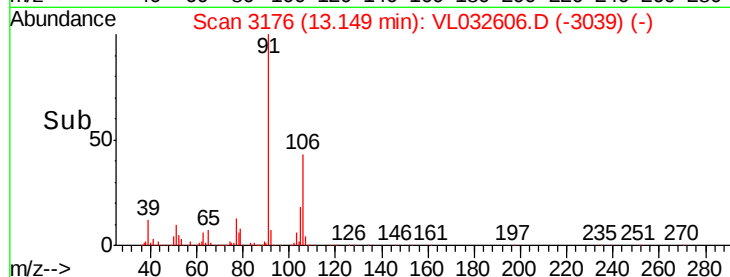
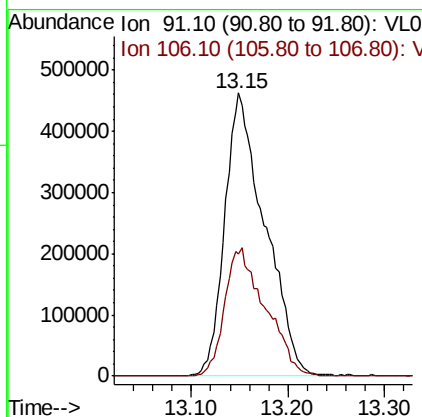
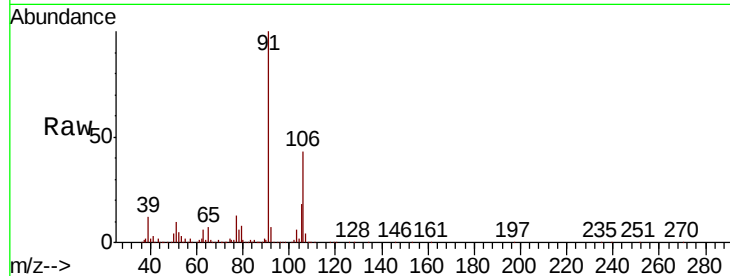
#59
m/p-Xylene
Concen: 3.261 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.06 min
Lab File: VL032606.D
Acq: 11 Oct 2018 16:03

Instrument :
MSVOA_L
ClientSampled :
SV-1DL

Tot Ion: 91 Resp: 1319059
Ion Ratio Lower Upper
91 100
106 46.5 36.6 55.0

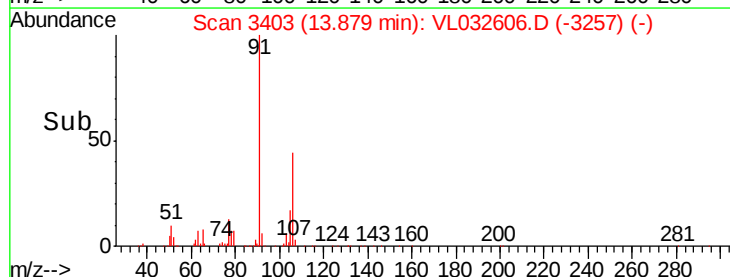
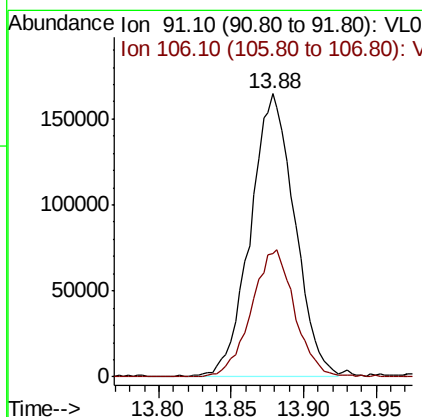
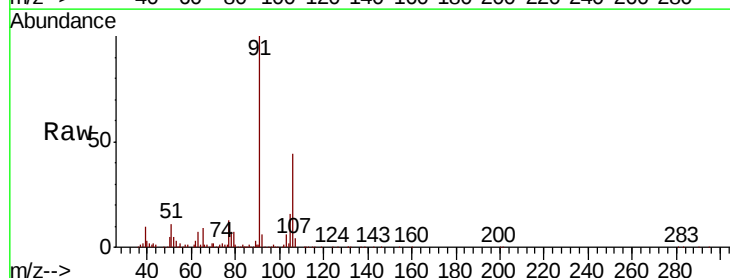
Manual Integrations
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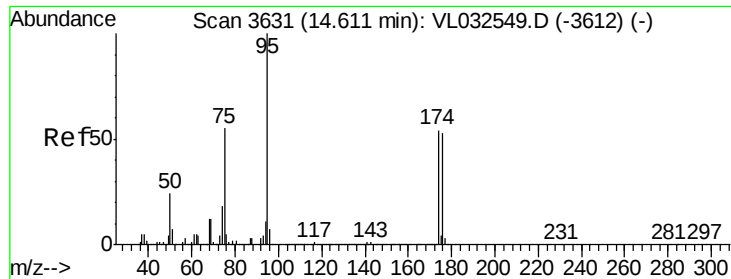
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#60
o-Xylene
Concen: 0.881 ppbv
RT: 13.88 min Scan# 3403
Delta R.T. -0.03 min
Lab File: VL032606.D
Acq: 11 Oct 2018 16:03

Tgt Ion: 91 Resp: 347078
Ion Ratio Lower Upper
91 100
106 44.5 21.9 65.7





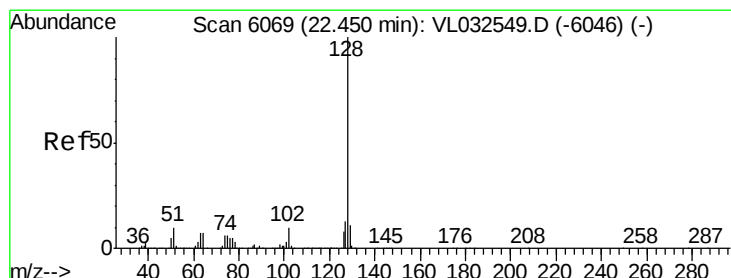
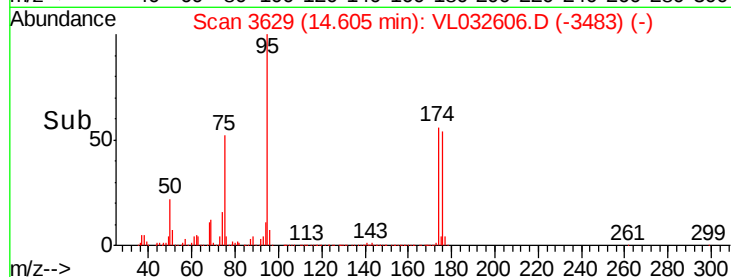
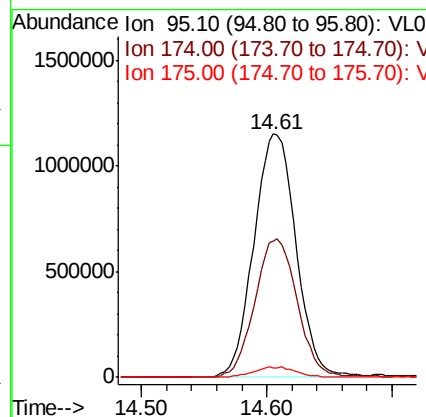
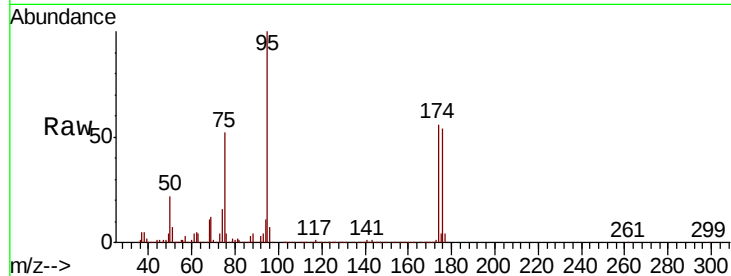
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.490 ppbv
 RT: 14.61 min Scan# 3629
 Delta R.T. -0.03 min
 Lab File: VL032606.D
 Acq: 11 Oct 2018 16:03

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	58.4	46.3	69.5
175	4.4	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:30 PM



#79
 Naphthalene
 Concen: 0.493 ppbv
 RT: 22.46 min Scan# 6072
 Delta R.T. -0.02 min
 Lab File: VL032606.D
 Acq: 11 Oct 2018 16:03

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.2	15.2
129	11.4	8.5	12.7

