

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032593.D
 Acq On : 3 Oct 2018 23:52
 Operator : SY/AP
 Sample : J5094-04DL 40XDUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FIA-1DL

Manual Integrations
 APPROVED

MMDadoda
 10/4/2018 7:07:09 PM

Quant Time: Oct 04 10:05:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 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	5.78	49	1009581	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.32	114	2539618	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2818657	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	1961947m	9.23	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	7706660	91.794	ppbv #	92
9) Propene	3.06	41	44631m	1.225	ppbv	
13) Ethanol	3.68	45	12051m	1.101	ppbv	
15) Acetone	3.92	43	1095453	12.361	ppbv	99
19) Isopropyl Alcohol	4.07	45	36332	0.589	ppbv #	93
53) Toluene	9.97	91	18635m	0.075	ppbv	

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

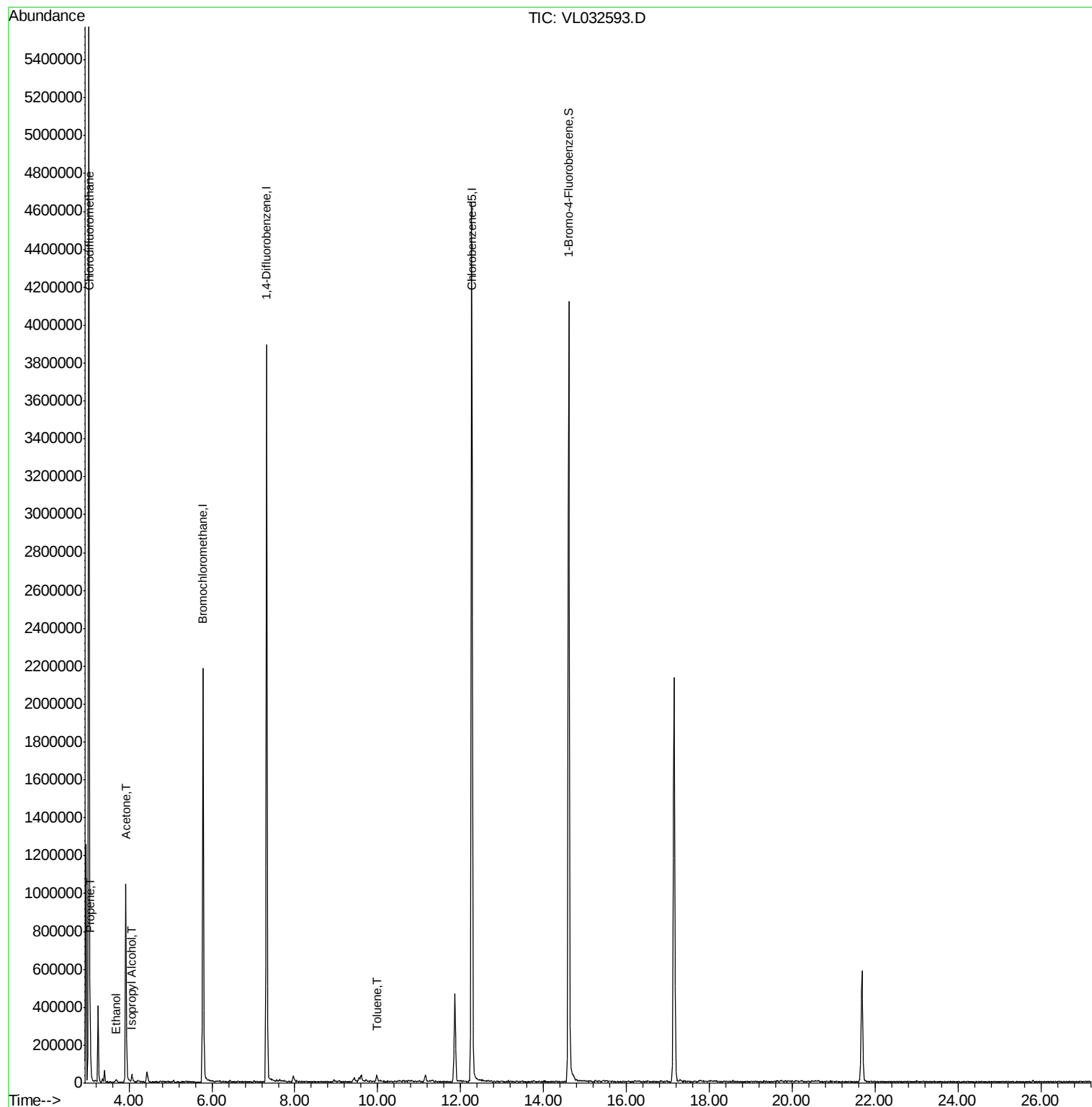
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100318\
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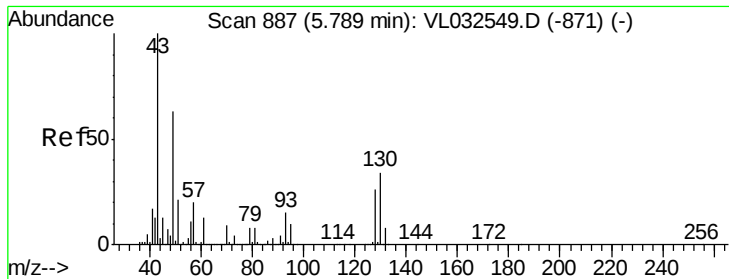
Instrument :
MSVOA_L
ClientSampleId :
FIA-1DL

Manual Integrations
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
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#1

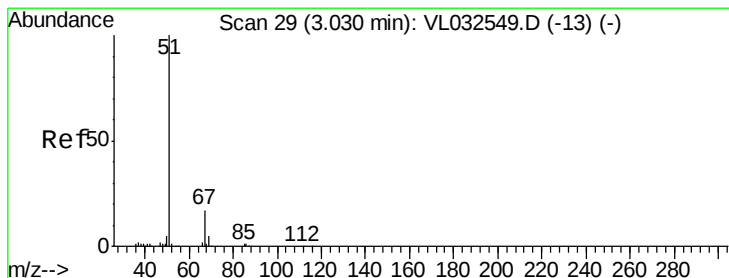
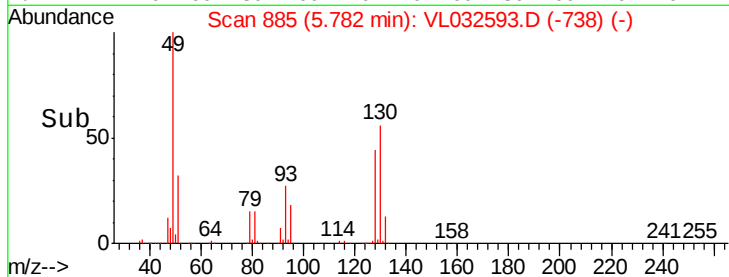
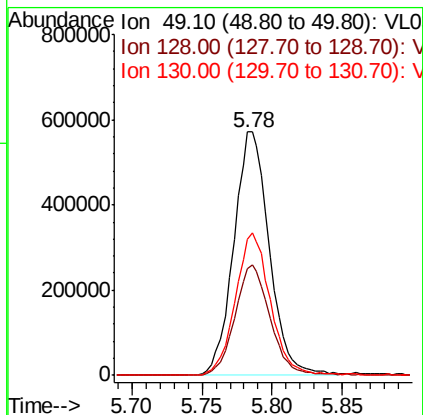
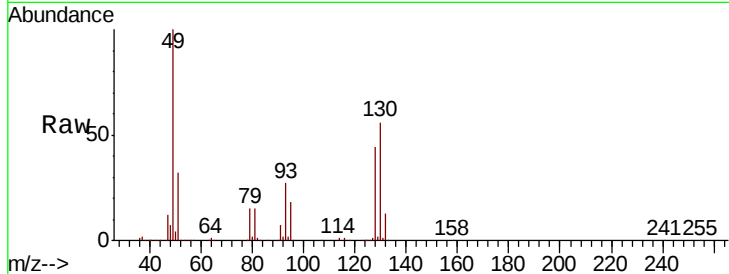
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.78 min Scan# 885
 Delta R.T. -0.03 min
 Lab File: VL032593.D
 Acq: 3 Oct 2018 23:52

Instrument :
 MSVOA_L
 ClientSampled :
 FIA-1DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.3	20.7	62.1
130	58.1	26.6	79.7

Manual Integrations
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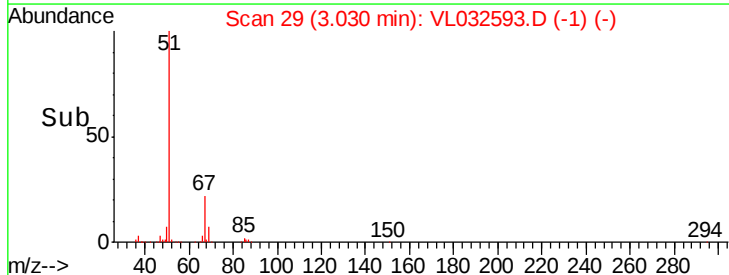
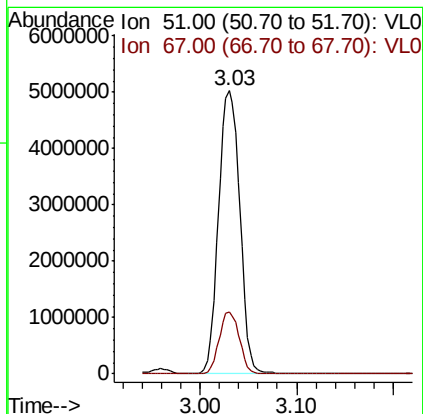
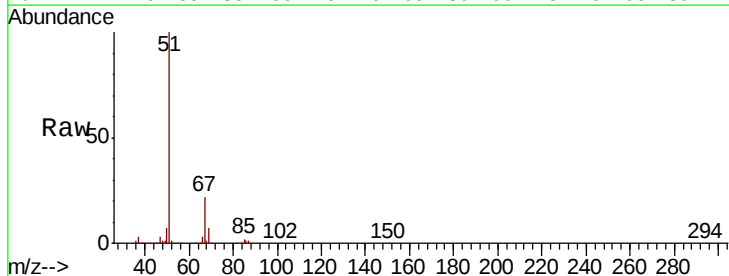
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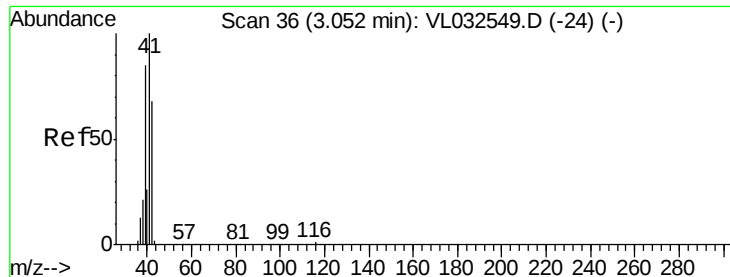


#3

Chlorodifluoromethane
 Concen: 91.794 ppbv
 RT: 3.03 min Scan# 29
 Delta R.T. -0.01 min
 Lab File: VL032593.D
 Acq: 3 Oct 2018 23:52

Tgt Ion	Ratio	Lower	Upper
51	100		
67	20.9	13.8	20.8#





#9

Propene

Concen: 1.225 ppbv m

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032593.D

Acq: 3 Oct 2018 23:52

Instrument :

MSVOA_L

ClientSampleId :

FIA-1DL

Tot Ion: 41 Resp: 44631

Ion Ratio Lower Upper

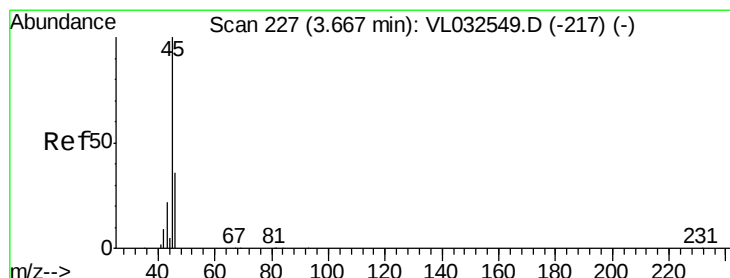
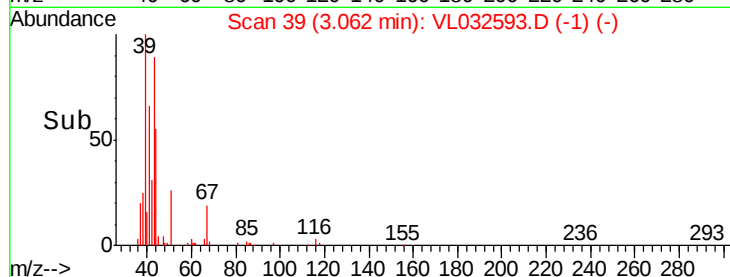
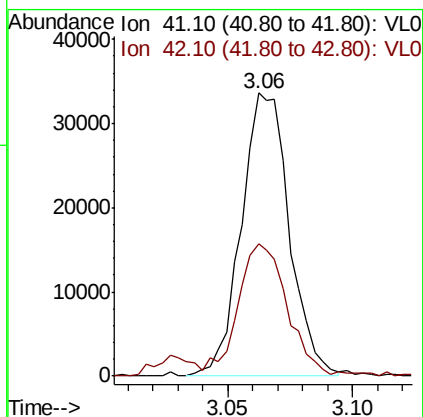
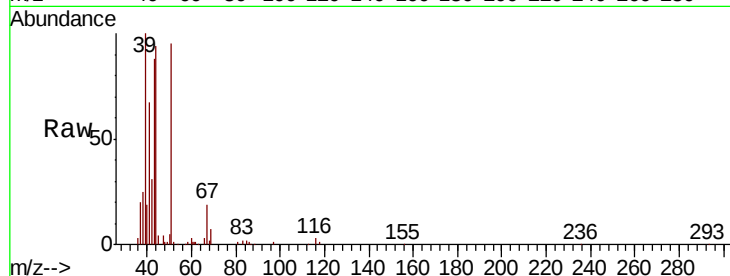
41 100

42 155.7 56.6 84.8#

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#13

Ethanol

Concen: 1.101 ppbv m

RT: 3.68 min Scan# 231

Delta R.T. -0.01 min

Lab File: VL032593.D

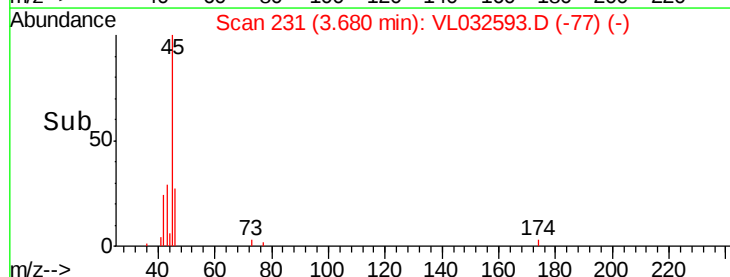
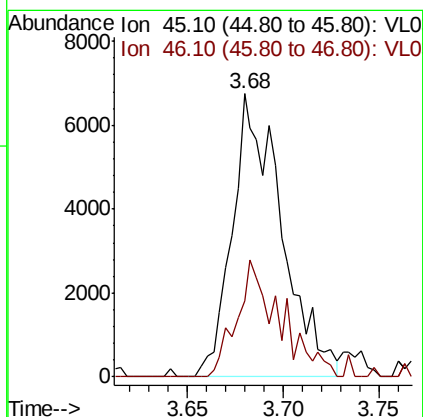
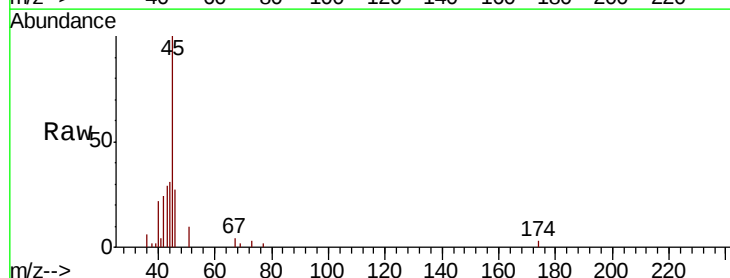
Acq: 3 Oct 2018 23:52

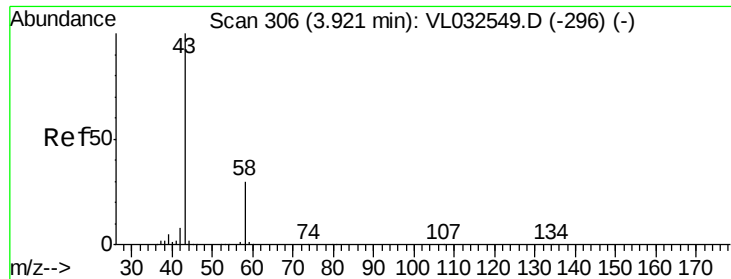
Tgt Ion: 45 Resp: 12051

Ion Ratio Lower Upper

45 100

46 37.2 14.2 56.8





#15

Acetone

Concen: 12.361 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032593.D

Acq: 3 Oct 2018 23:52

Instrument :

MSVOA_L

ClientSampleId :

FIA-1DL

Tot Ion: 43 Resp: 1095453

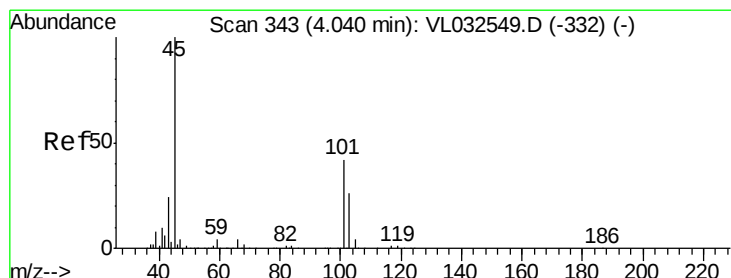
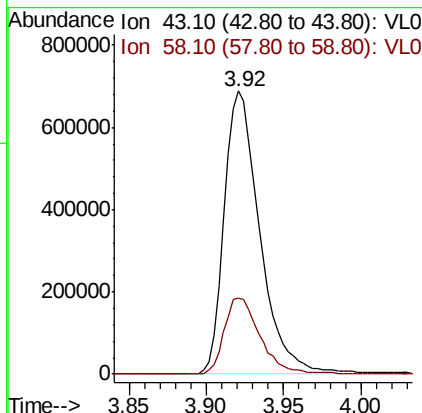
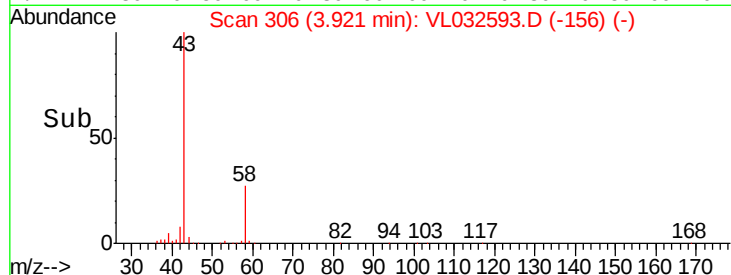
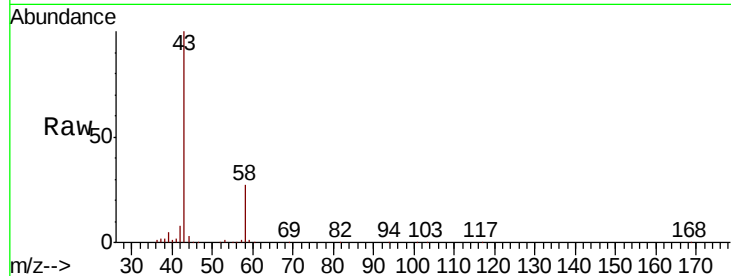
Ion Ratio Lower Upper

43 100

58 27.6 22.6 33.8

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#19

Isopropyl Alcohol

Concen: 0.589 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL032593.D

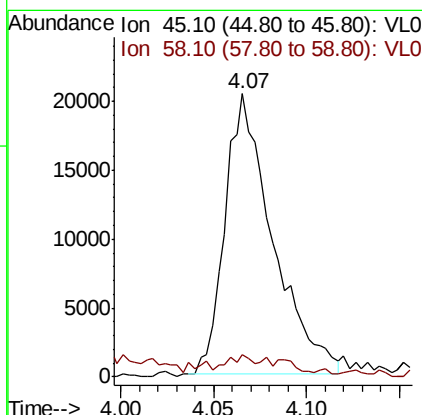
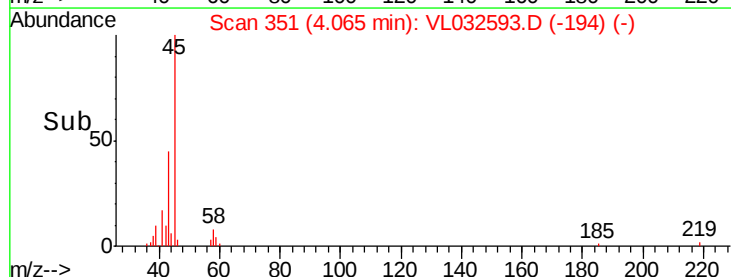
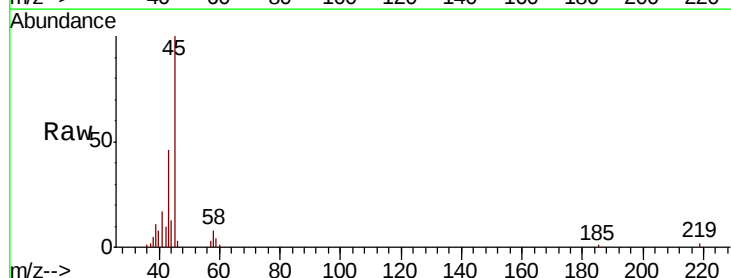
Acq: 3 Oct 2018 23:52

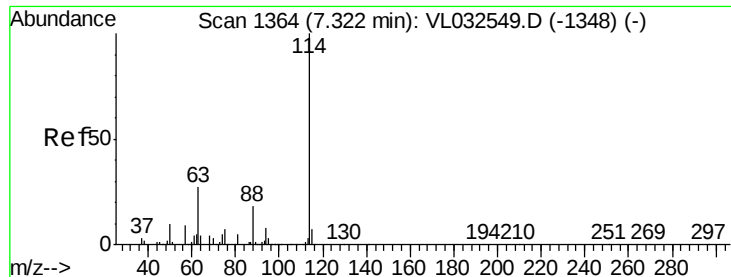
Tgt Ion: 45 Resp: 36332

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#





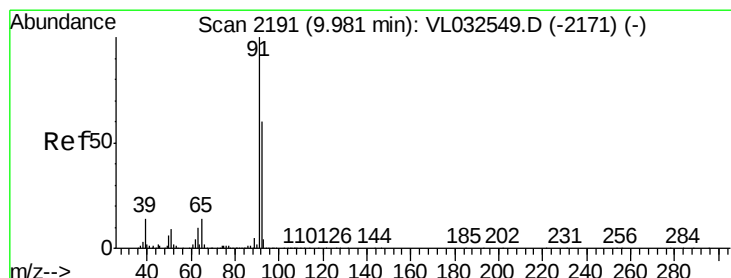
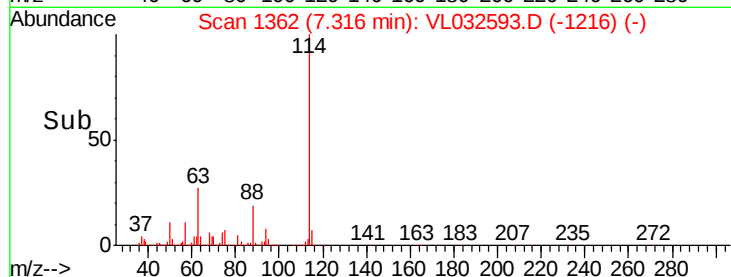
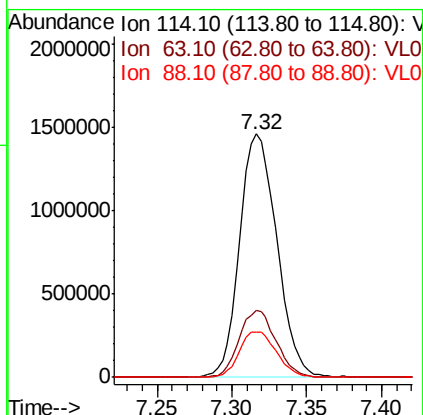
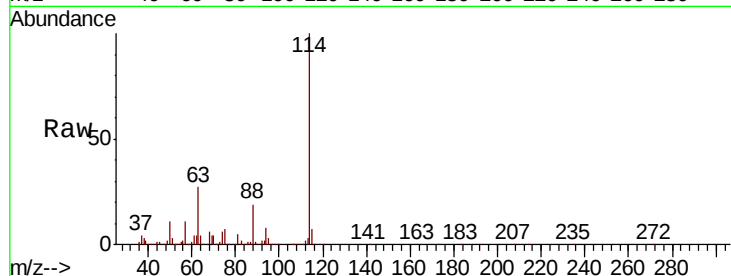
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1362
 Delta R.T. -0.03 min
 Lab File: VL032593.D
 Acq: 3 Oct 2018 23:52

Instrument :
 MSVOA_L
 ClientSampleId :
 FIA-1DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.4
88	18.8	15.0	22.4

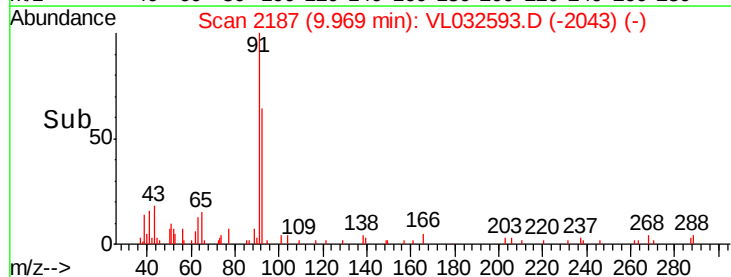
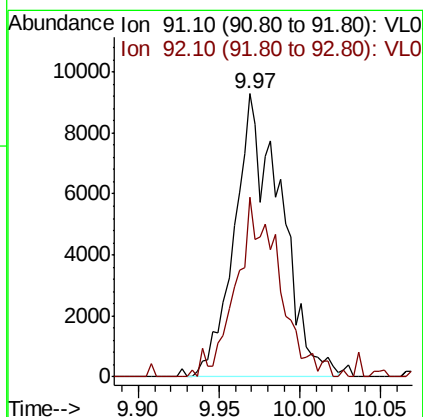
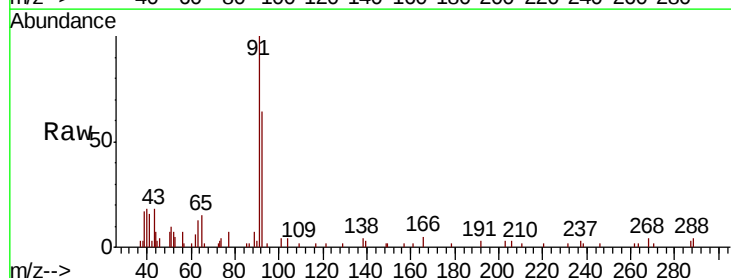
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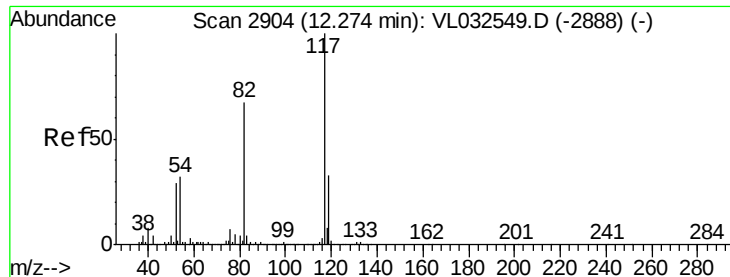
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#53
 Toluene
 Concen: 0.075 ppbv m
 RT: 9.97 min Scan# 2187
 Delta R.T. -0.04 min
 Lab File: VL032593.D
 Acq: 3 Oct 2018 23:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	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: VL032593.D

Acq: 3 Oct 2018 23:52

Instrument :

MSVOA_L

ClientSampleId :

FIA-1DL

Tot Ion:117 Resp: 2818657

Ion Ratio Lower Upper

117 100

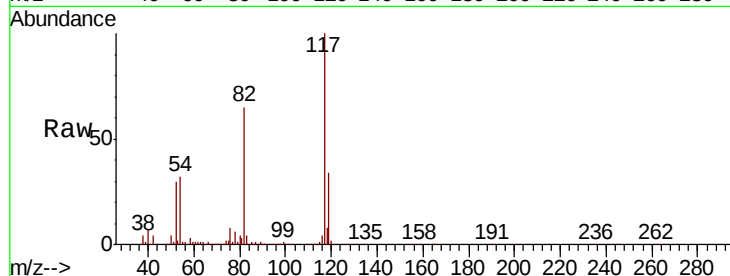
82 66.9 53.0 79.6

119 32.3 45.9 68.9#

Manual Integrations
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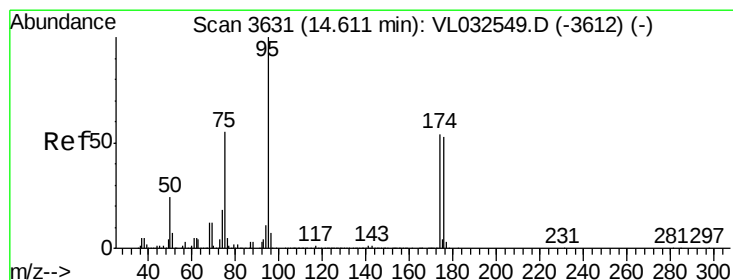
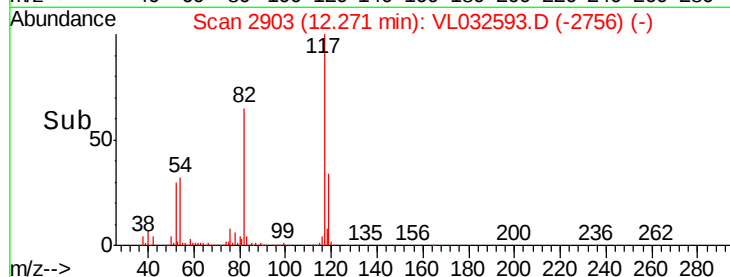
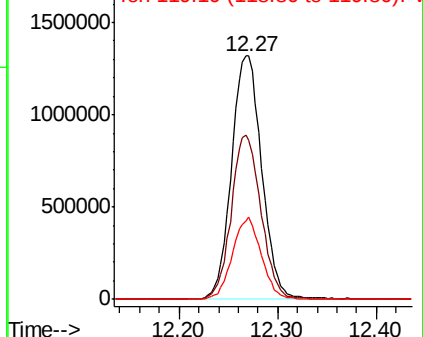
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.230 ppbv m

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032593.D

Acq: 3 Oct 2018 23:52

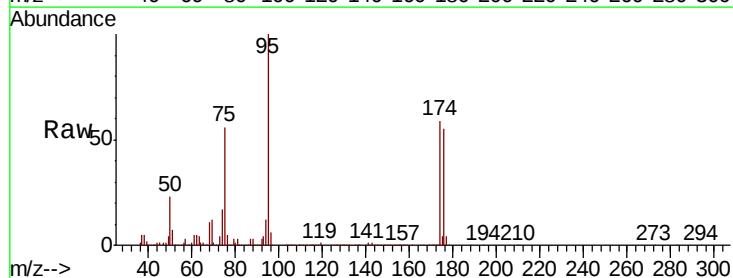
Tgt Ion: 95 Resp: 1961947

Ion Ratio Lower Upper

95 100

174 0.0 46.3 69.5#

175 0.0 3.4 5.0#



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

