

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034771.D
 Acq On : 3 Mar 2020 19:48
 Operator : SY/AP
 Sample : L1704-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4DL

Manual Integrations
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Quant Time: Mar 04 11:29:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1226874	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2519827	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2485050	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	2133784	10.47	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	109617	1.981	ppbv #	63
10) Heptane	8.17	43	62681	0.440	ppbv	98
13) Ethanol	3.59	45	295243	16.886	ppbv	95
15) Acetone	3.84	43	2371364	16.962	ppbv	99
17) tert-Butyl alcohol	4.32	59	15686m	0.146	ppbv	
23) Vinyl Acetate	5.08	43	3471047	18.263	ppbv	98
53) Toluene	9.86	91	1512660	6.535	ppbv	99
58) Ethyl Benzene	12.77	91	55148m	0.183	ppbv	
59) m/p-Xylene	13.04	91	225055m	0.858	ppbv	
60) o-Xylene	13.76	91	67771	0.260	ppbv	99
72) 4-Ethyltoluene	15.91	105	56873m	0.196	ppbv	
73) 1,3,5-Trimethylbenzene	16.06	105	50618m	0.182	ppbv	
74) 1,2,4-Trimethylbenzene	16.83	105	145038	0.471	ppbv #	66

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

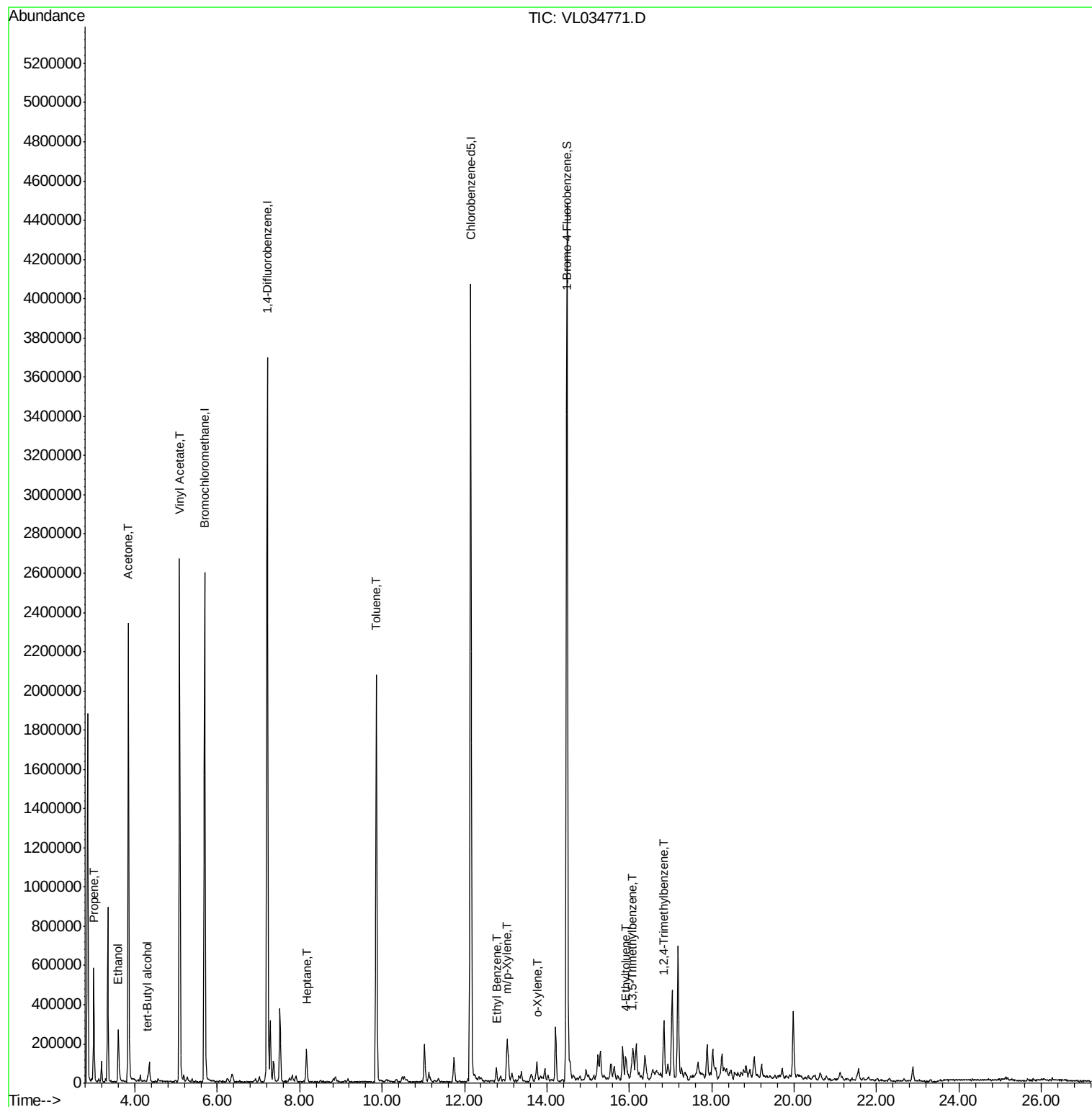
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030320\
Data File : VL034771.D
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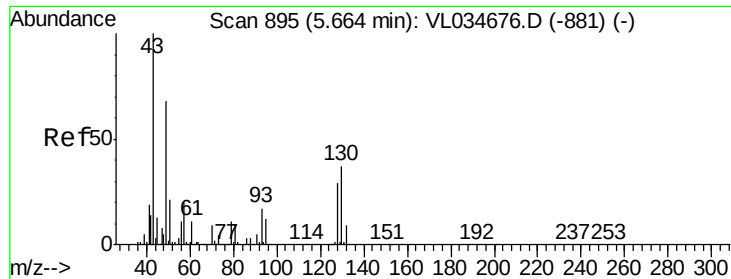
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

Manual Integrations
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Quant Time: Mar 04 11:29:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





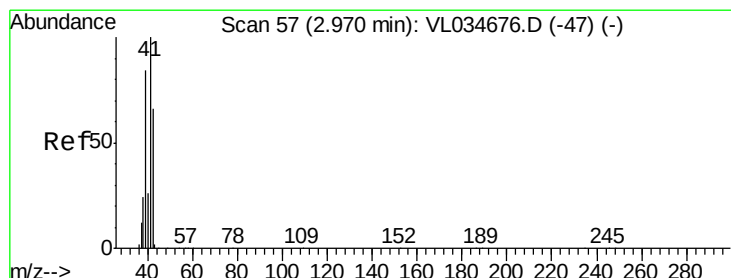
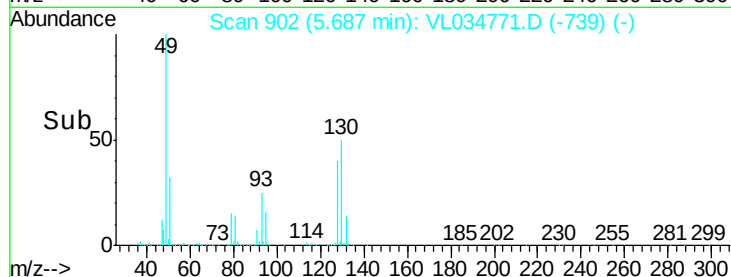
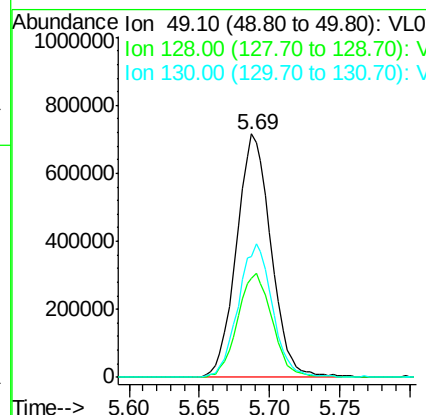
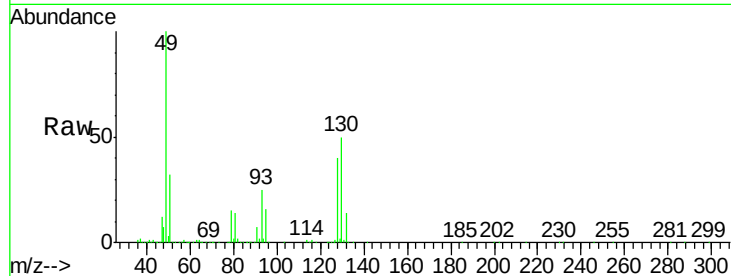
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.02 min
 Lab File: VL034771.D
 Acq: 3 Mar 2020 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	43.3	21.6	65.0
130	54.9	27.7	83.1

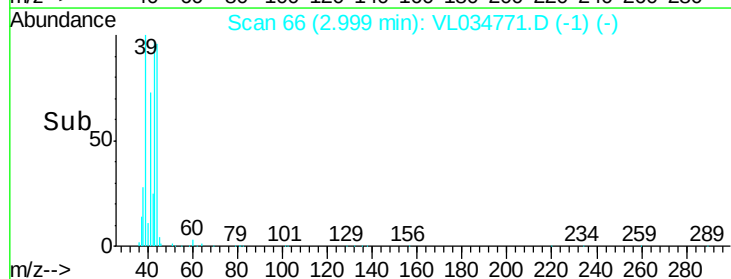
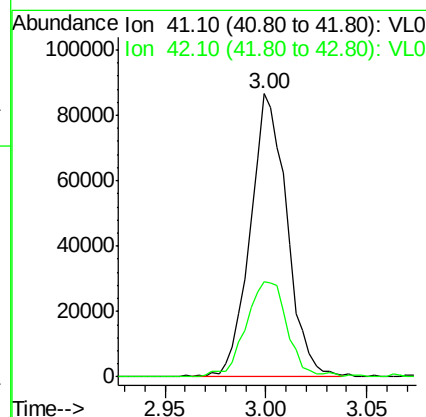
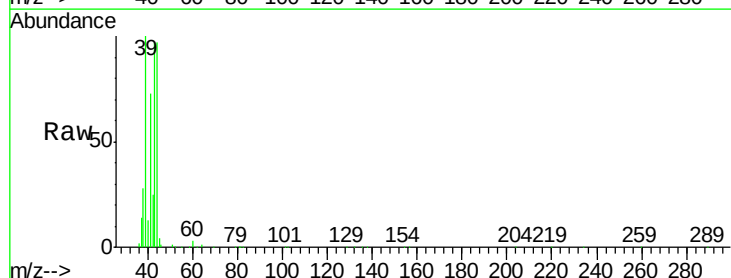
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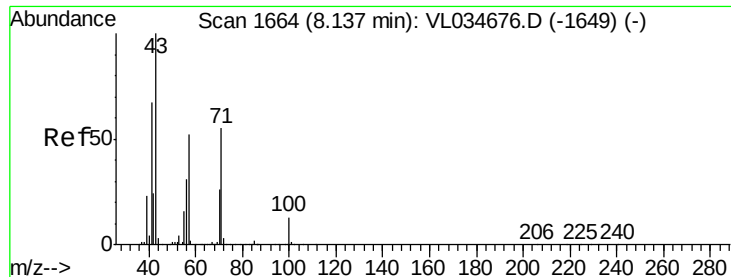
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#9
 Propene
 Concen: 1.981 ppbv
 RT: 3.00 min Scan# 66
 Delta R.T. 0.03 min
 Lab File: VL034771.D
 Acq: 3 Mar 2020 19:48

Tgt Ion	Ratio	Lower	Upper
41	100		
42	38.7	54.9	82.3





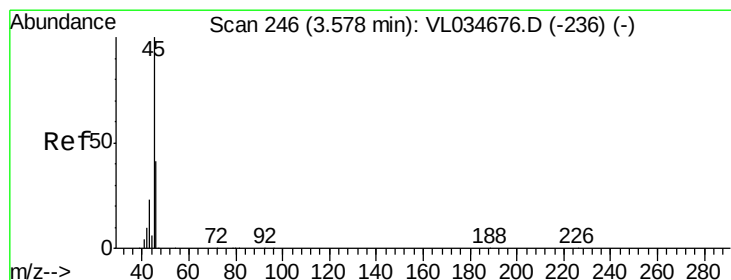
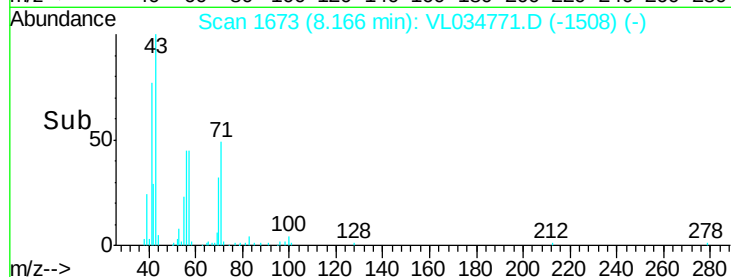
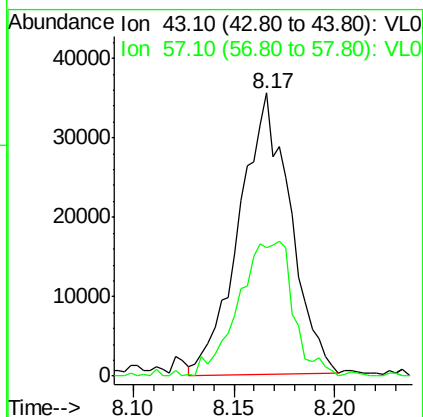
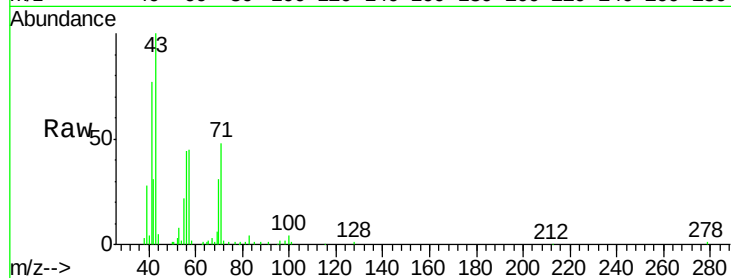
#10
Heptane
Concen: 0.440 ppbv
RT: 8.17 min Scan# 1673
Delta R.T. 0.03 min
Lab File: VL034771.D
Acq: 3 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

Tot Ion: 43 Resp: 62681
Ion Ratio Lower Upper
43 100
57 53.0 41.0 61.6

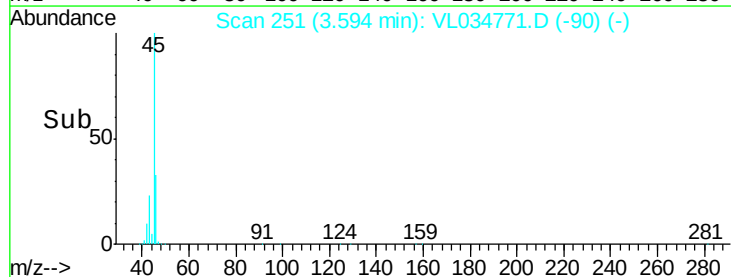
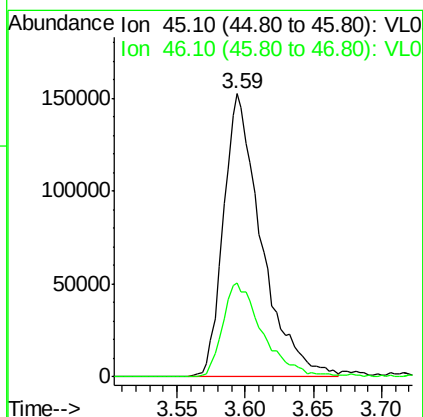
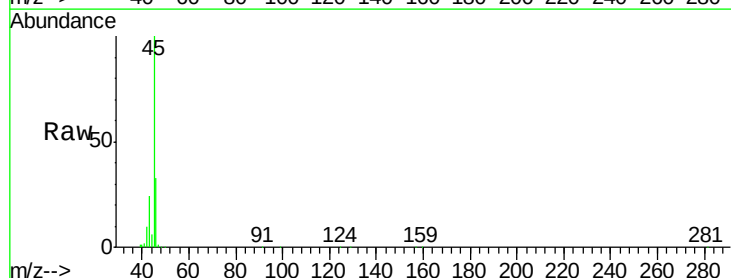
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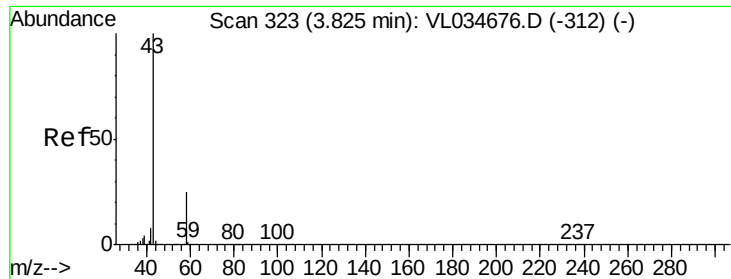
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#13
Ethanol
Concen: 16.886 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.02 min
Lab File: VL034771.D
Acq: 3 Mar 2020 19:48

Tgt Ion: 45 Resp: 295243
Ion Ratio Lower Upper
45 100
46 35.1 15.4 61.4





#15

Acetone

Concen: 16.962 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034771.D

Acq: 3 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4DL

Tot Ion: 43 Resp: 2371364

Ion Ratio Lower Upper

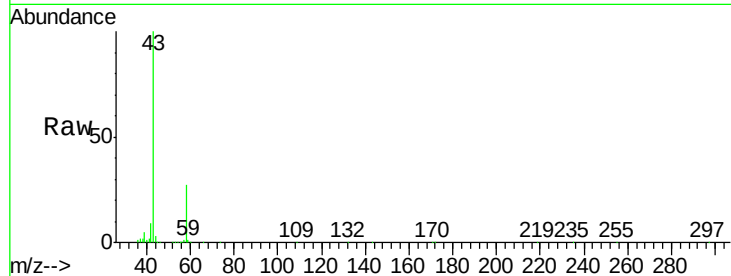
43 100

58 27.0 21.4 32.0

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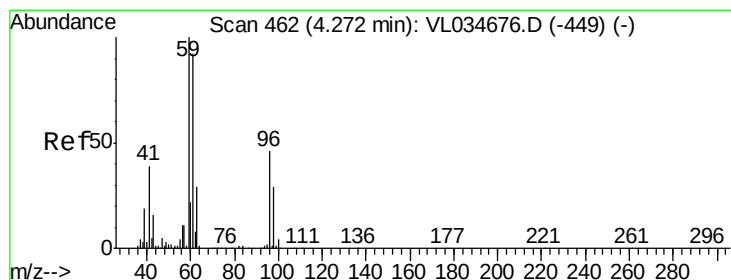
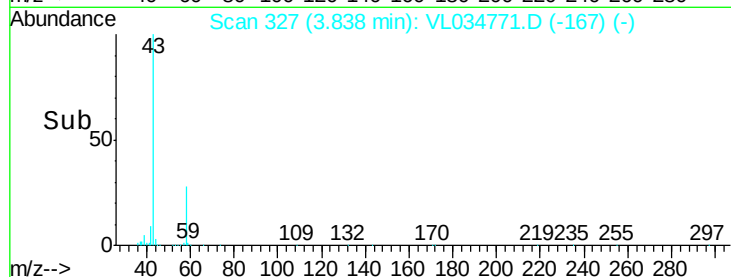
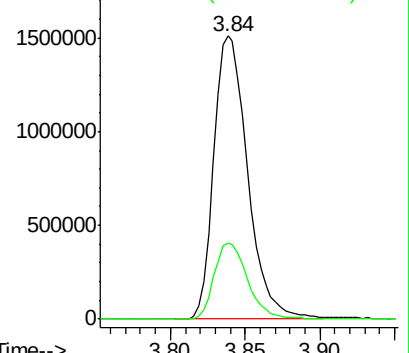
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.146 ppbv m

RT: 4.32 min Scan# 476

Delta R.T. 0.05 min

Lab File: VL034771.D

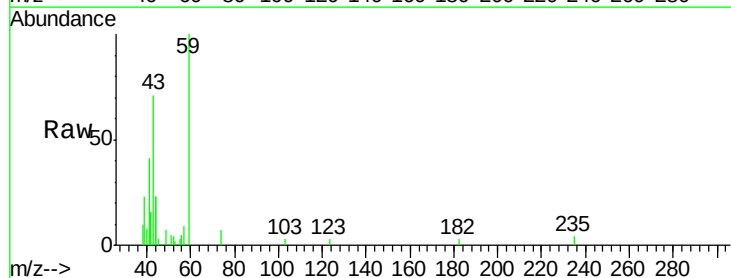
Acq: 3 Mar 2020 19:48

Tgt Ion: 59 Resp: 15686

Ion Ratio Lower Upper

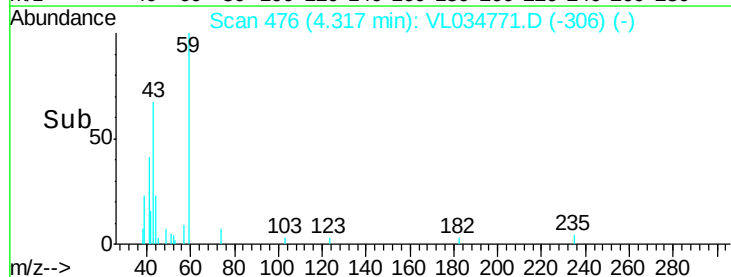
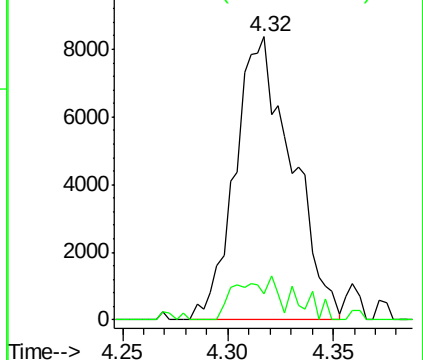
59 100

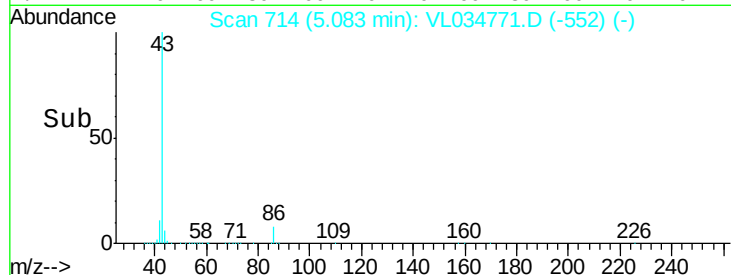
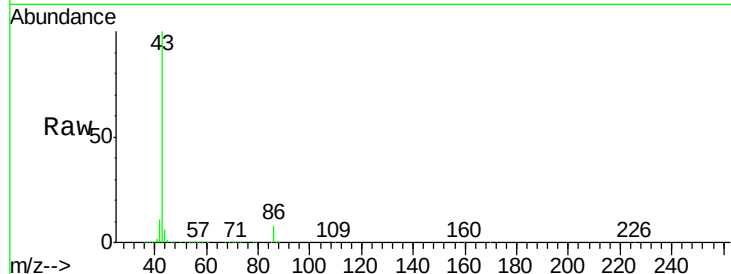
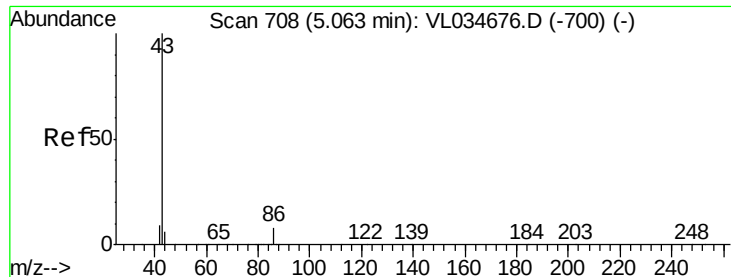
57 0.0 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





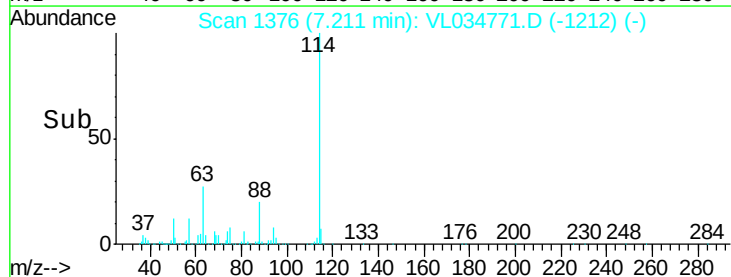
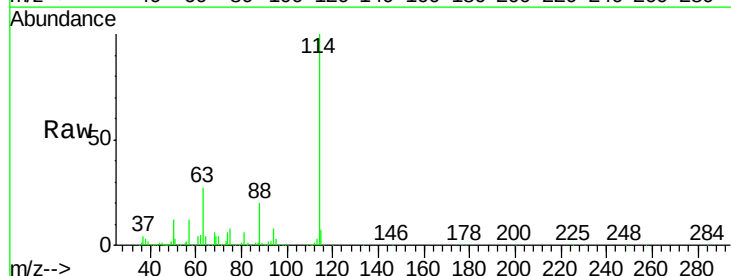
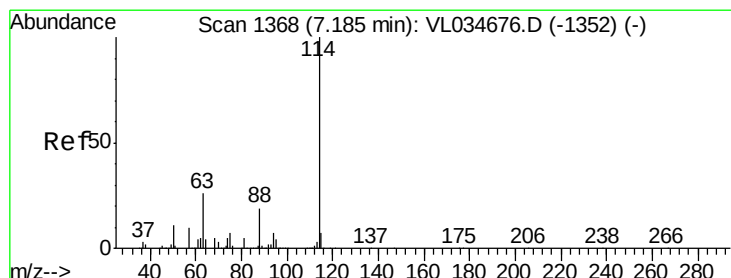
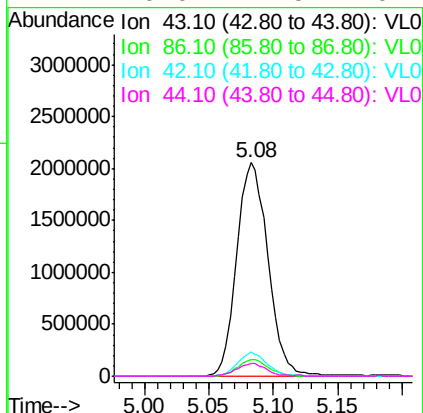
#23
 Vinyl Acetate
 Concen: 18.263 ppbv
 RT: 5.08 min Scan# 714
 Delta R.T. 0.02 min
 Lab File: VL034771.D
 Acq: 3 Mar 2020 19:48

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.9	6.0	9.0	
42	11.2	8.0	12.0	
44	6.0	4.5	6.7	

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4DL

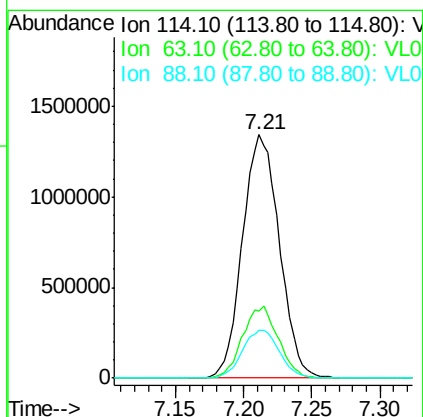
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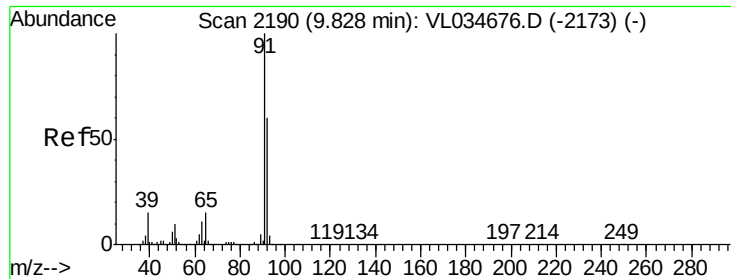
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.03 min
 Lab File: VL034771.D
 Acq: 3 Mar 2020 19:48

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	28.5	22.9	34.3	
88	19.8	15.8	23.6	





#53

Toluene

Concen: 6.535 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. 0.03 min

Lab File: VL034771.D

Acq: 3 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4DL

Tot Ion: 91 Resp: 1512660

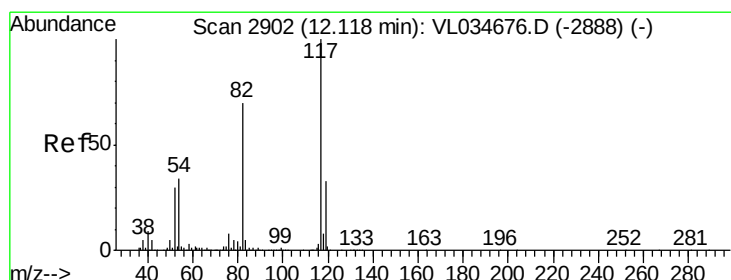
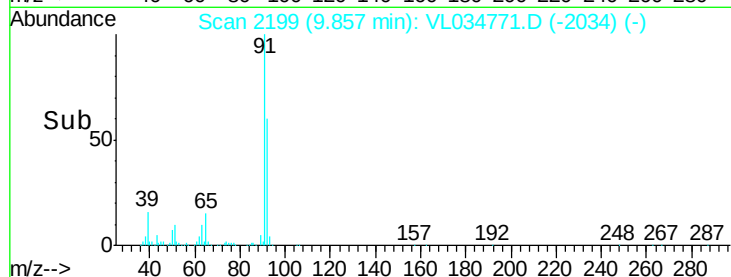
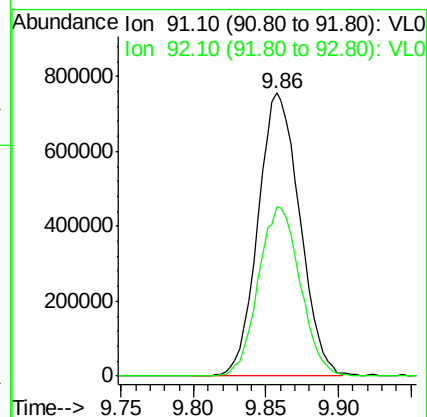
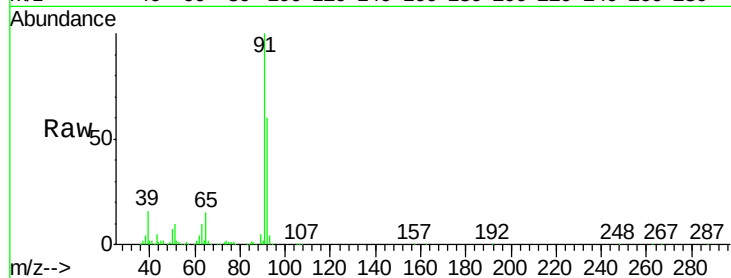
Ion Ratio Lower Upper

91 100

92 60.1 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. 0.03 min

Lab File: VL034771.D

Acq: 3 Mar 2020 19:48

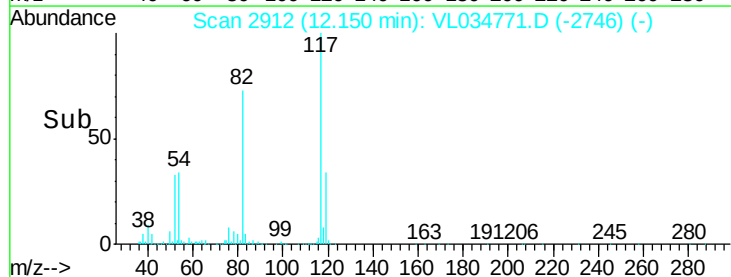
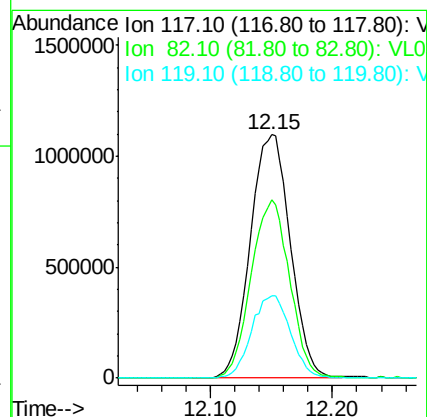
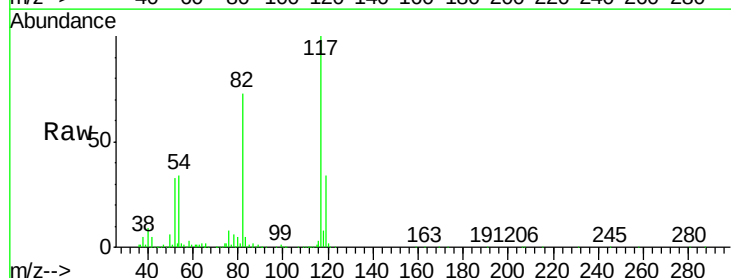
Tgt Ion: 117 Resp: 2485050

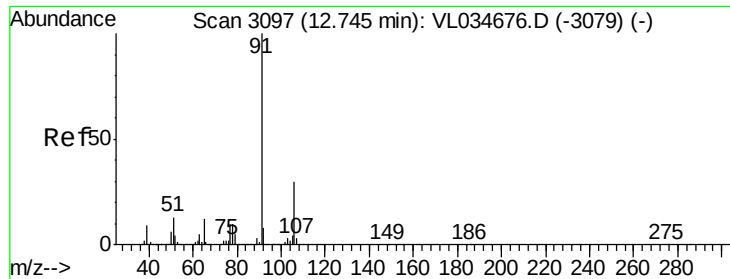
Ion Ratio Lower Upper

117 100

82 71.0 54.1 81.1

119 33.2 27.6 41.4





#58

Ethyl Benzene

Concen: 0.183 ppbv m

RT: 12.77 min Scan# 3106

Delta R.T. 0.03 min

Lab File: VL034771.D

Acq: 3 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4DL

Tot Ion: 91 Resp: 55148

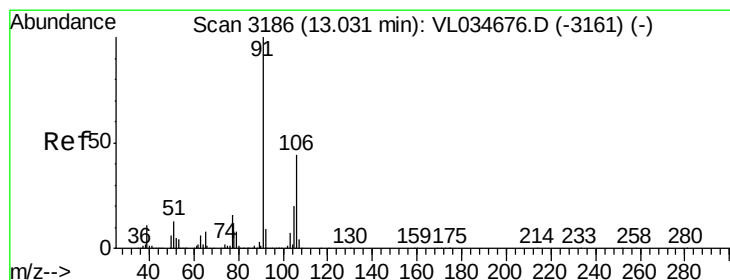
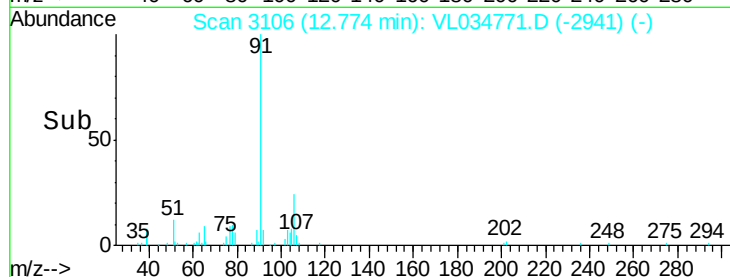
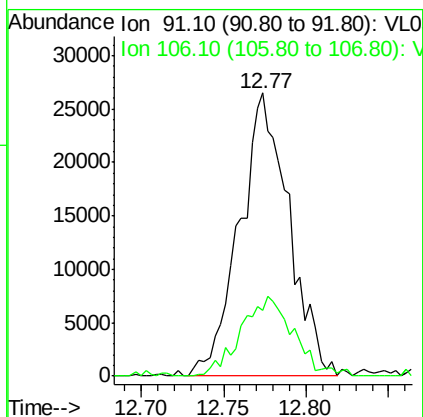
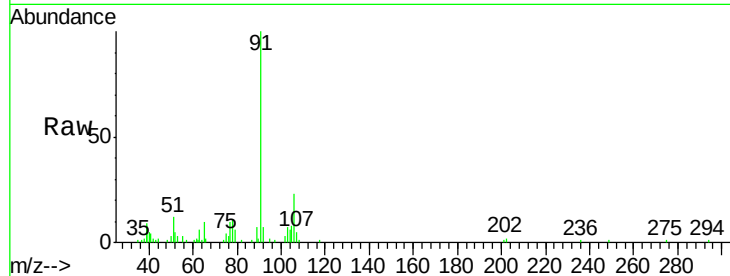
Ion Ratio Lower Upper

91 100

106 23.4 24.0 36.0#

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#59

m/p-Xylene

Concen: 0.858 ppbv m

RT: 13.04 min Scan# 3188

Delta R.T. 0.01 min

Lab File: VL034771.D

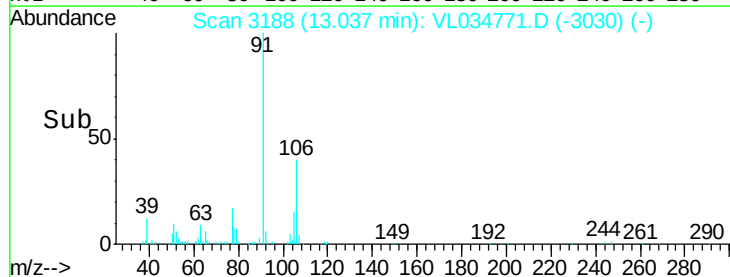
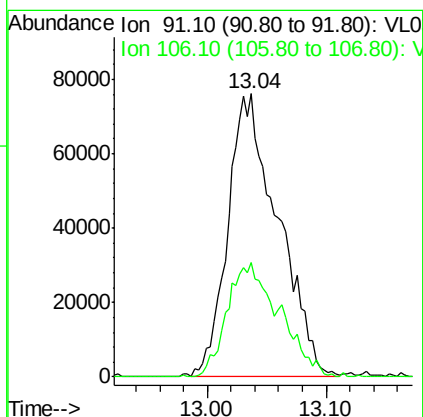
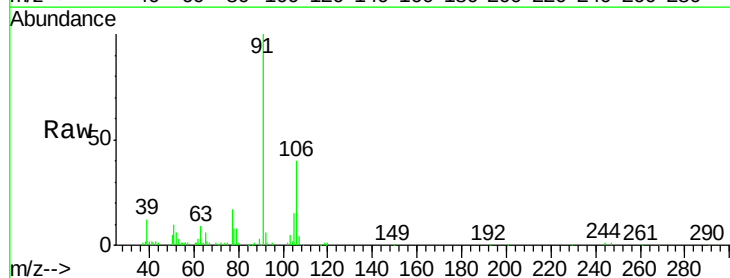
Acq: 3 Mar 2020 19:48

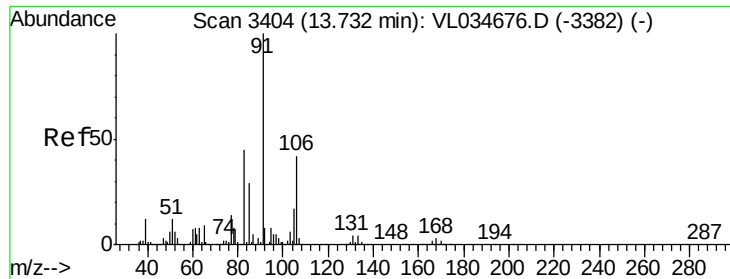
Tgt Ion: 91 Resp: 225055

Ion Ratio Lower Upper

91 100

106 42.2 35.6 53.4





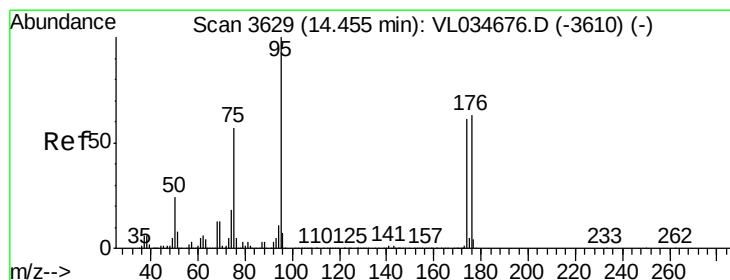
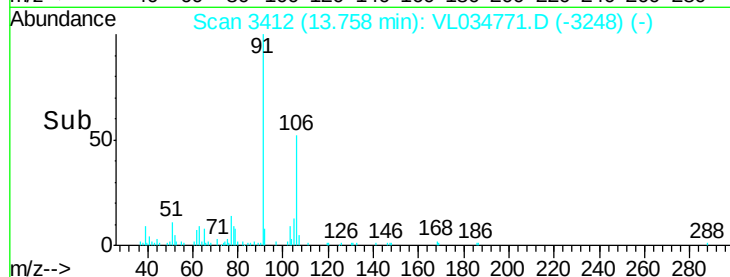
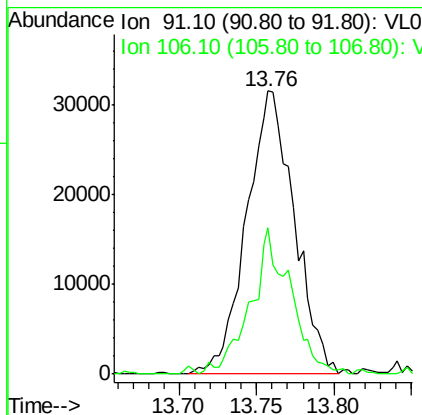
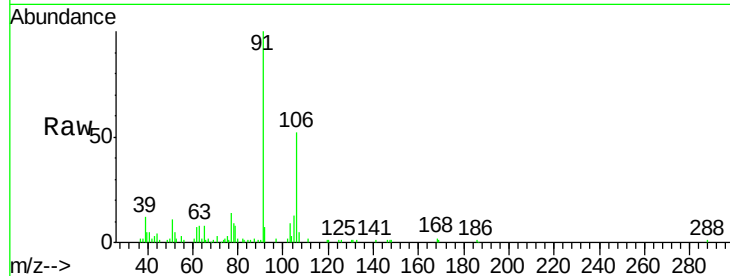
#60
o-Xylene
Concen: 0.260 ppbv
RT: 13.76 min Scan# 3412
Delta R.T. 0.03 min
Lab File: VL034771.D
Acq: 3 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampleId :
IA-1-4DL

Tot Ion: 91 Resp: 67771
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.5

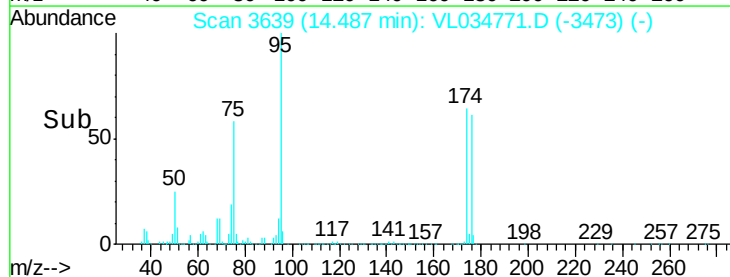
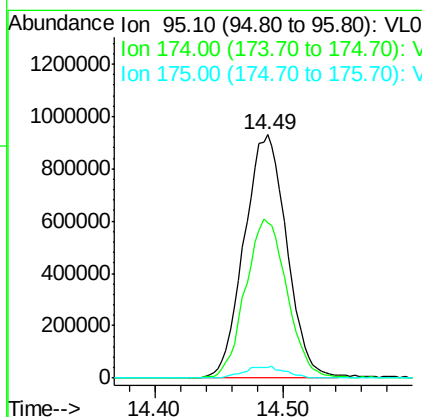
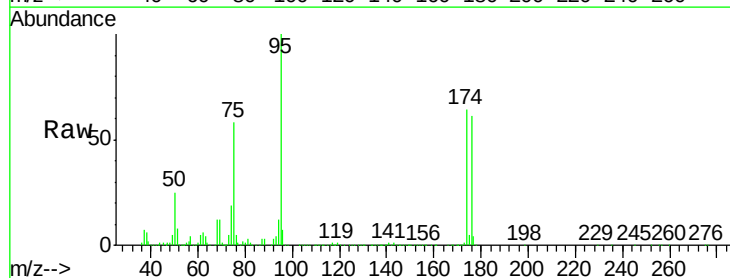
Manual Integrations
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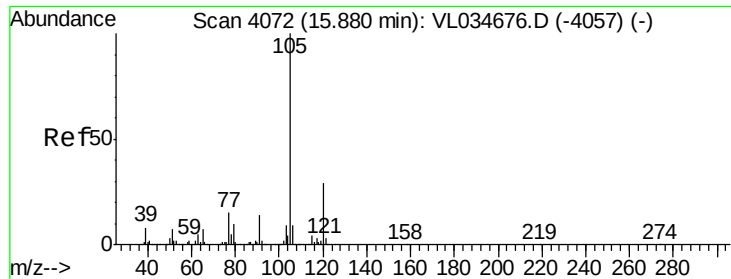
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.472 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. 0.03 min
Lab File: VL034771.D
Acq: 3 Mar 2020 19:48

Tgt Ion: 95 Resp: 2133784
Ion Ratio Lower Upper
95 100
174 64.1 50.7 76.1
175 4.8 3.9 5.9





#72

4-Ethyltoluene

Concen: 0.196 ppbv m

RT: 15.91 min Scan# 4082

Delta R.T. 0.03 min

Lab File: VL034771.D

Acq: 3 Mar 2020 19:48

Instrument :

MSVOA_L

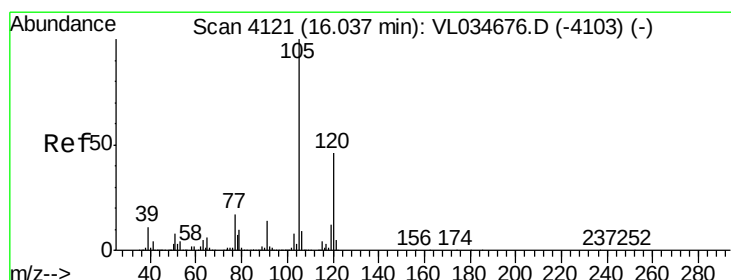
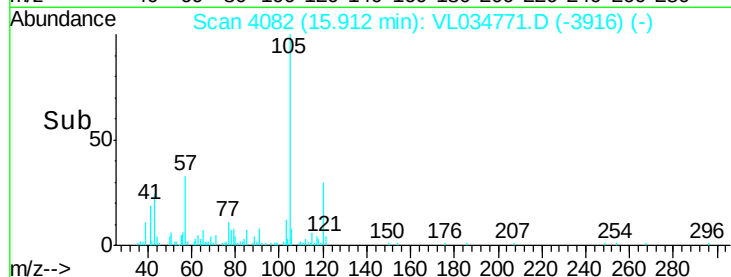
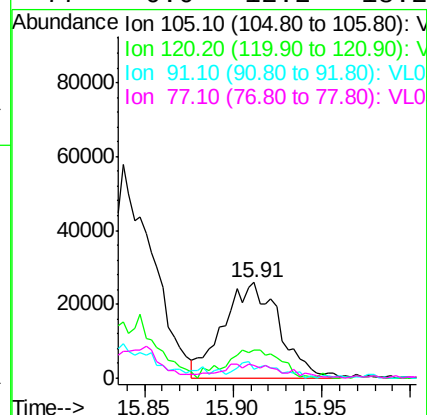
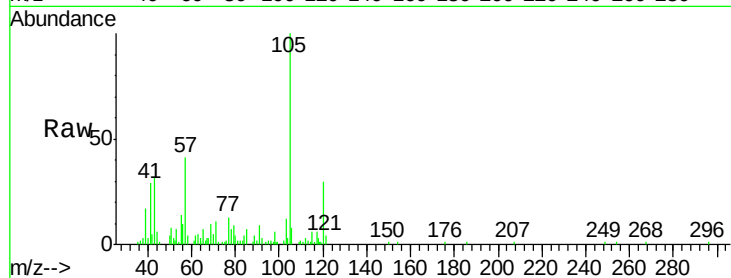
ClientSampled :

IA-1-4DL

Tot Ion:	105	Resp:	56873
Ion Ratio	Lower	Upper	
105	100		
120	27.2	23.7	35.5
91	16.7	10.9	16.3#
77	0.0	12.2	18.2#

Manual Integrations
APPROVED

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3/4/2020 4:49:21 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.182 ppbv m

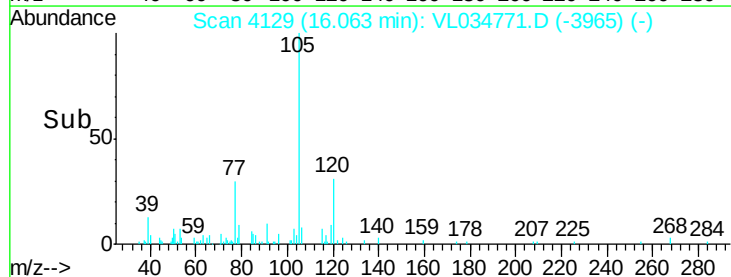
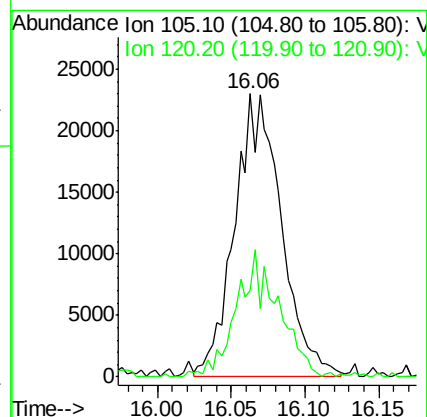
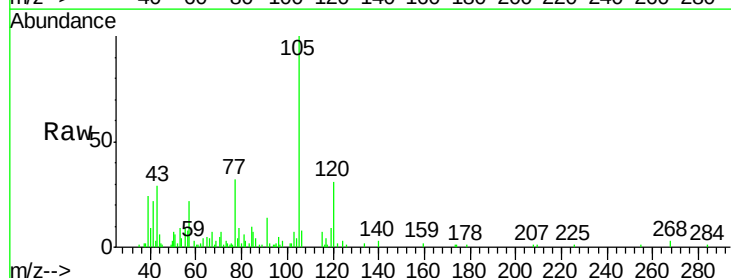
RT: 16.06 min Scan# 4129

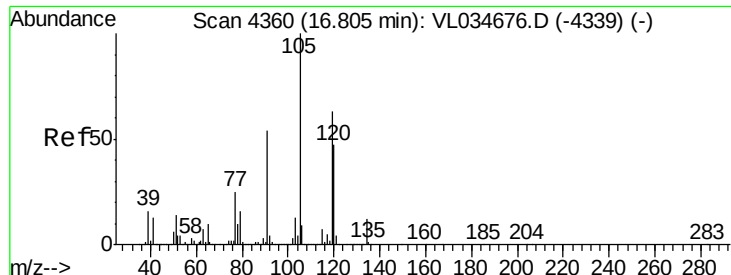
Delta R.T. 0.03 min

Lab File: VL034771.D

Acq: 3 Mar 2020 19:48

Tgt Ion:	105	Resp:	50618
Ion Ratio	Lower	Upper	
105	100		
120	30.5	37.1	55.7#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.471 ppbv
 RT: 16.83 min Scan# 4369
 Delta R.T. 0.03 min
 Lab File: VL034771.D
 Acq: 3 Mar 2020 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	36.3	37.9	56.9#
91	12.4	43.9	65.9#
77	19.4	20.3	30.5#

Manual Integrations
 APPROVED

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 3/4/2020 4:49:21 PM

