

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034066.D
 Acq On : 30 Jul 2019 15:30
 Operator : SY/AP
 Sample : K4033-03DLDUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DLDUP

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:48 AM

Quant Time: Jul 31 20:01:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 31 2019
 QLast Update : Tue Jul 30 06:55:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1293357	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4585203	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3262297	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2635223	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	29467	0.197	ppbv	97
9) Propene	3.02	41	44473m	0.830	ppbv	
10) Heptane	8.20	43	41035m	0.281	ppbv	
13) Ethanol	3.63	45	138883m	6.510	ppbv	
15) Acetone	3.88	43	154465	0.786	ppbv	100
26) Hexane	5.74	57	86853m	0.657	ppbv	
30) Cyclohexane	7.20	84	40029m	0.298	ppbv	
36) Benzene	6.96	78	139010m	0.455	ppbv	
53) Toluene	9.89	91	1767837	5.551	ppbv	99
58) Ethyl Benzene	12.81	91	375279	0.972	ppbv	98
59) m/p-Xylene	13.06	91	1280658m	3.649	ppbv	
60) o-Xylene	13.79	91	463385	1.328	ppbv	98
61) Styrene	13.63	104	55087m	0.239	ppbv	
62) Isopropylbenzene	14.77	105	98389	0.211	ppbv	98
64) n-propylbenzene	15.67	120	40222m	0.332	ppbv	
72) 4-Ethyltoluene	15.95	105	266379	0.675	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	174005m	0.433	ppbv	
74) 1,2,4-Trimethylbenzene	16.87	105	754461	1.711	ppbv #	80

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

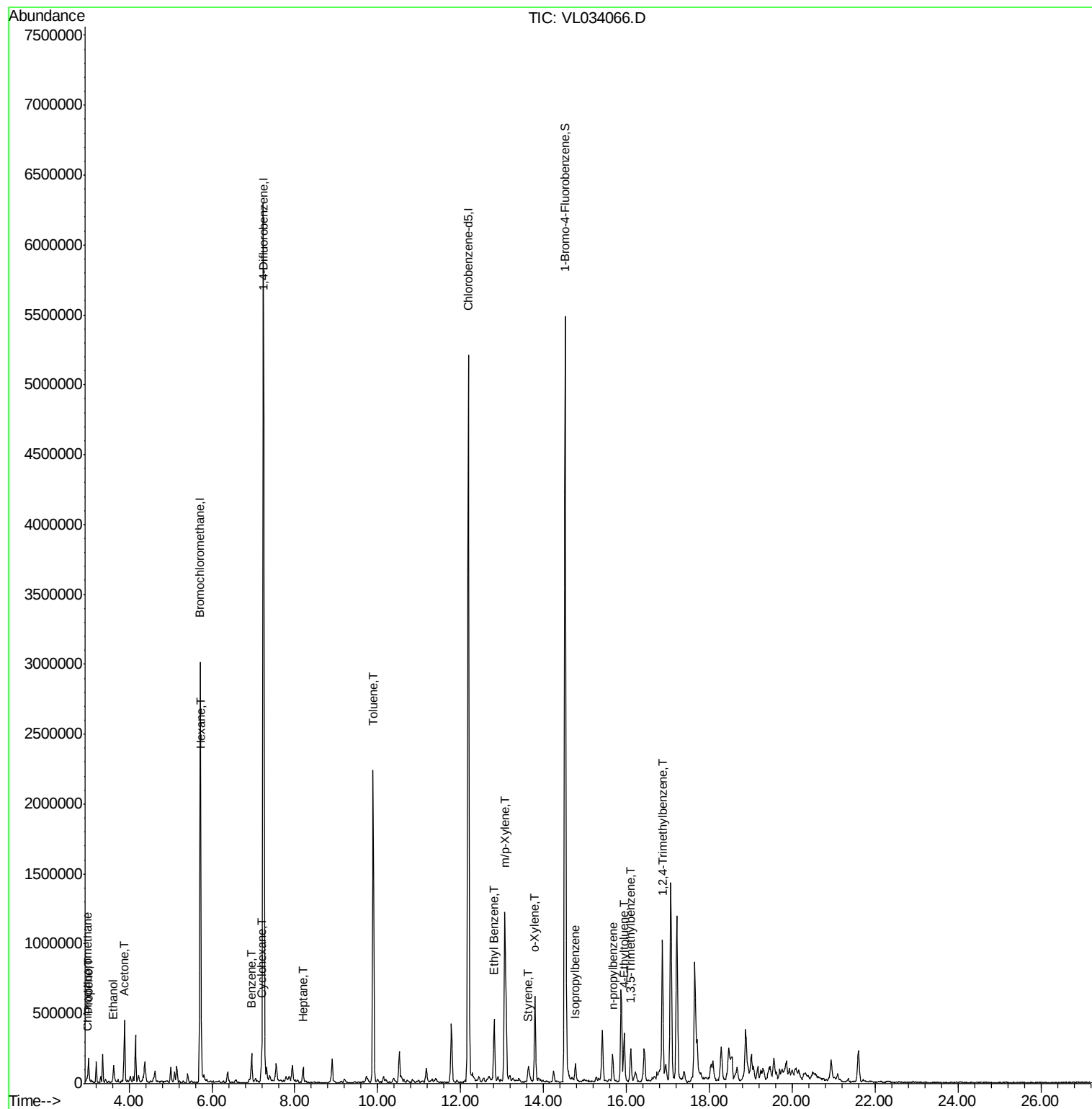
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
Data File : VL034066.D
Acq On : 30 Jul 2019 15:30
Operator : SY/AP
Sample : K4033-03DL DUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

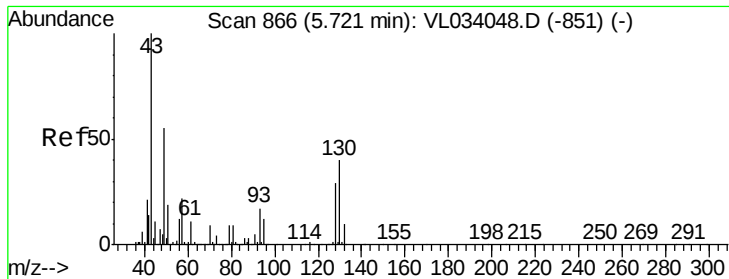
Instrument :
MSVOA_L
ClientSampleId :
SSG2DL DUP

Manual Integrations
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8/2/2019 9:37:48 AM

Quant Time: Jul 31 20:01:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration





#1

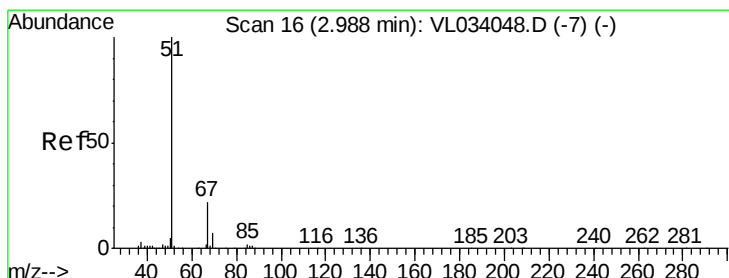
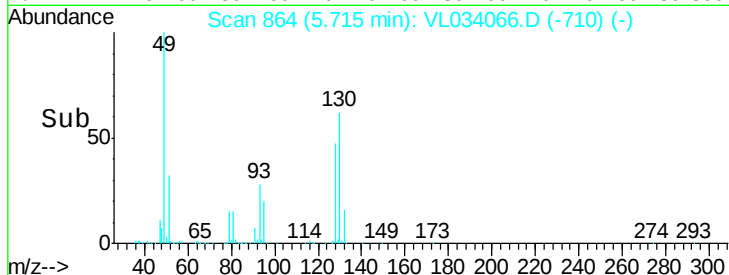
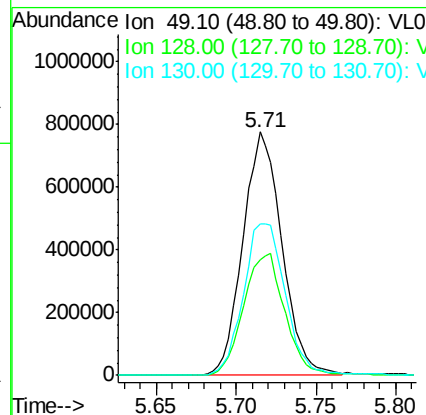
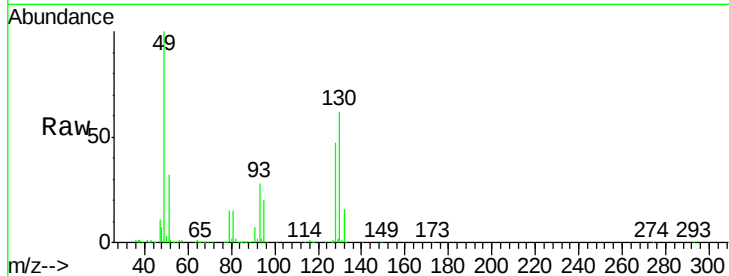
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.71 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VL034066.D
 Acq: 30 Jul 2019 15:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DLDUP

Tot Ion: 49 Resp: 1293357
 Ion Ratio Lower Upper
 49 100
 128 53.1 27.0 81.0
 130 67.6 35.0 105.0

Manual Integrations
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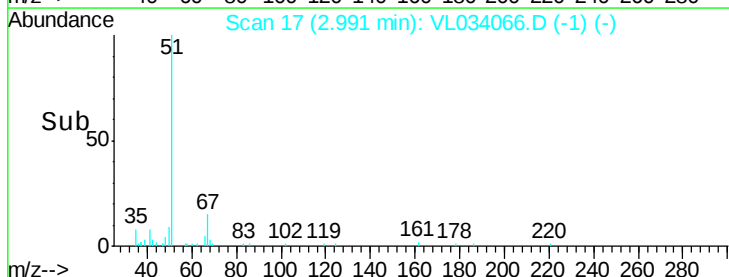
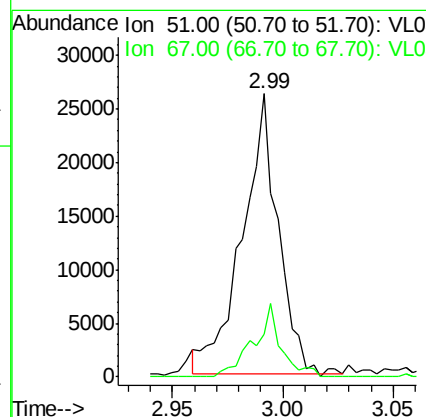
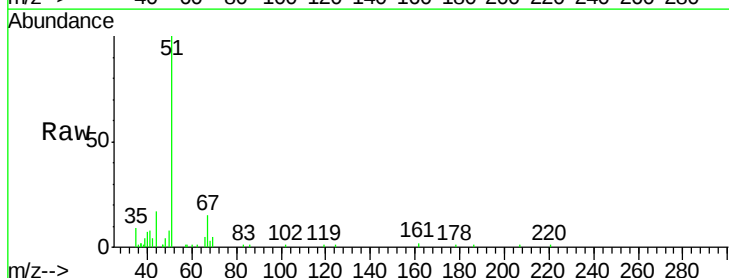
MMdadoda
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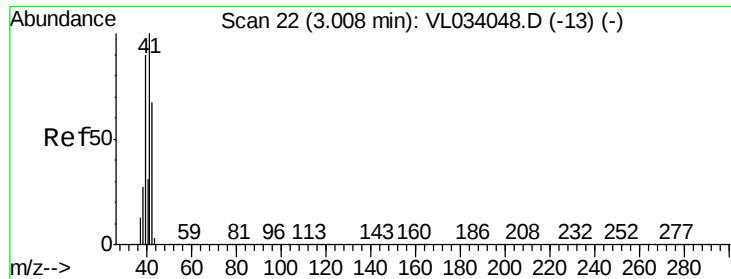


#3

Chlorodifluoromethane
 Concen: 0.197 ppbv
 RT: 2.99 min Scan# 17
 Delta R.T. 0.00 min
 Lab File: VL034066.D
 Acq: 30 Jul 2019 15:30

Tgt Ion: 51 Resp: 29467
 Ion Ratio Lower Upper
 51 100
 67 20.2 17.4 26.0





#9

Propene

Concen: 0.830 ppbv m

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

SSG2DLDUP

Tot Ion: 41 Resp: 44473

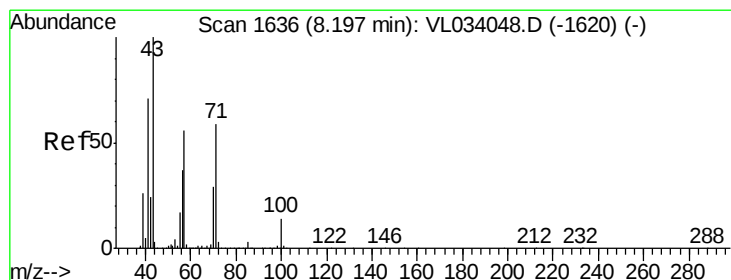
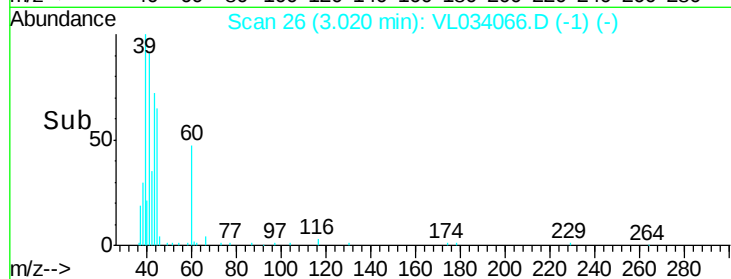
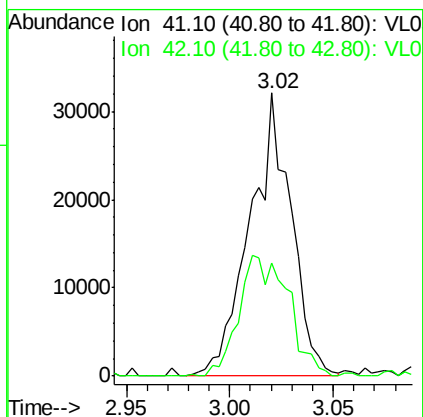
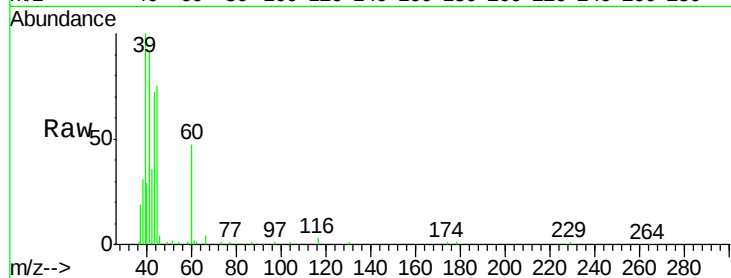
Ion Ratio Lower Upper

41 100

42 59.8 55.4 83.2

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#10

Heptane

Concen: 0.281 ppbv m

RT: 8.20 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VL034066.D

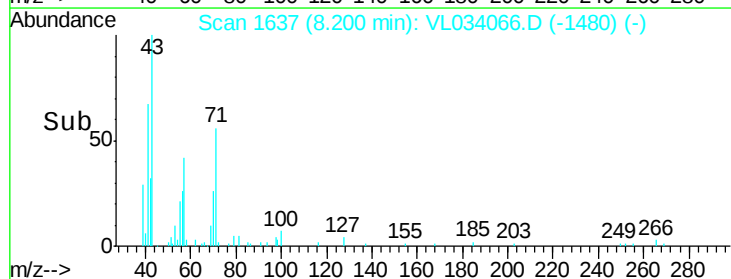
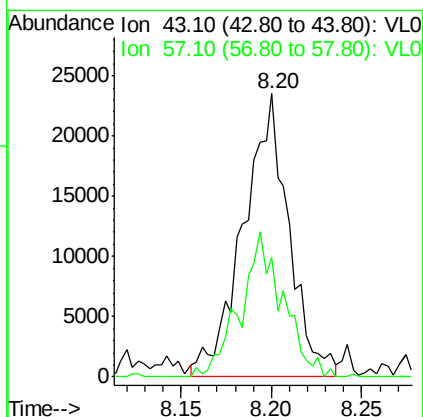
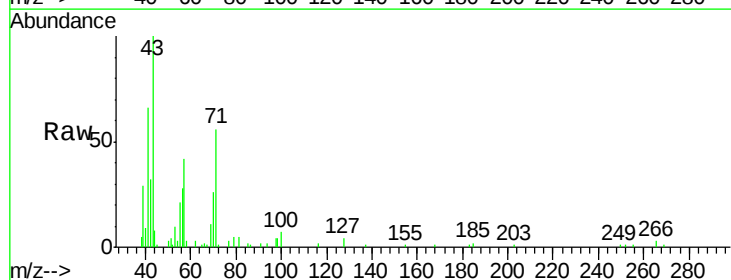
Acq: 30 Jul 2019 15:30

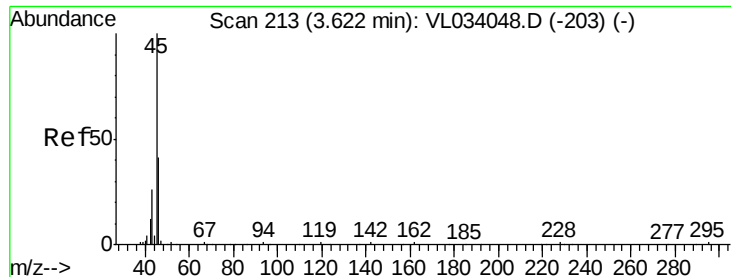
Tgt Ion: 43 Resp: 41035

Ion Ratio Lower Upper

43 100

57 47.6 44.8 67.2





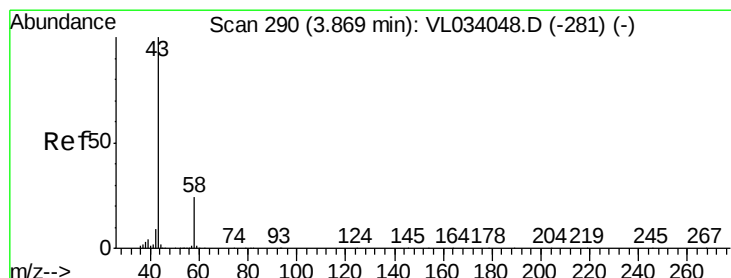
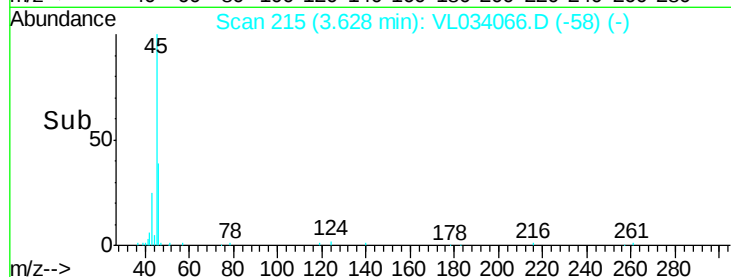
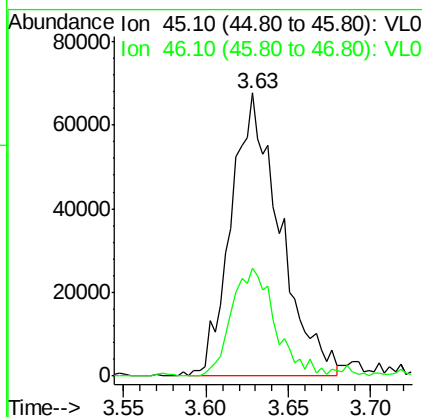
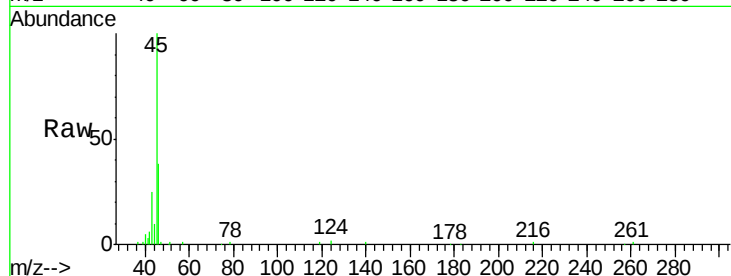
#13
Ethanol
Concen: 6.510 ppbv m
RT: 3.63 min Scan# 215
Delta R.T. 0.01 min
Lab File: VL034066.D
Acq: 30 Jul 2019 15:30

Instrument :
MSVOA_L
ClientSampleId :
SSG2DLDUP

Tot Ion: 45 Resp: 138883
Ion Ratio Lower Upper
45 100
46 34.5 15.6 62.2

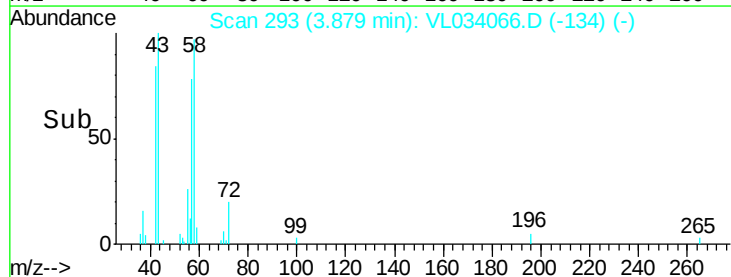
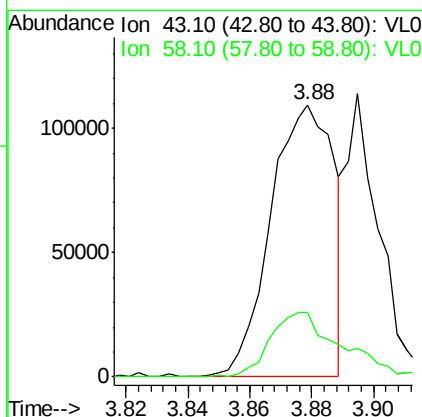
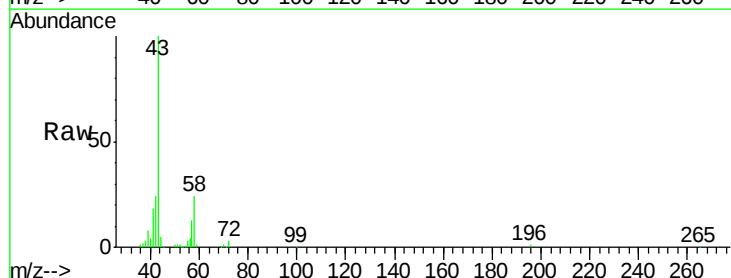
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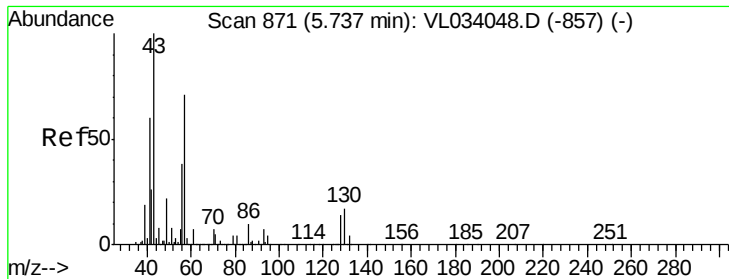
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#15
Acetone
Concen: 0.786 ppbv
RT: 3.88 min Scan# 293
Delta R.T. 0.01 min
Lab File: VL034066.D
Acq: 30 Jul 2019 15:30

Tgt Ion: 43 Resp: 154465
Ion Ratio Lower Upper
43 100
58 26.9 21.6 32.4





#26

Hexane

Concen: 0.657 ppbv m

RT: 5.74 min Scan# 871

Delta R.T. -0.00 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

SSG2DLDUP

Tot Ion: 57 Resp: 86853

Ion Ratio Lower Upper

57 100

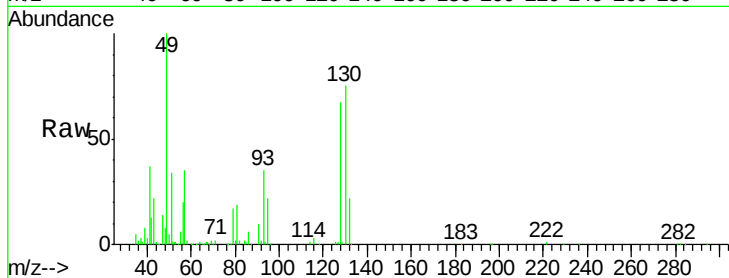
41 0.0 69.0 103.6#

43 69.3 176.6 264.8#

56 0.0 42.2 63.4#

Manual Integrations
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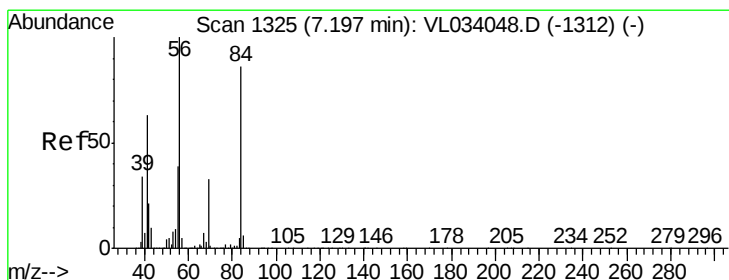
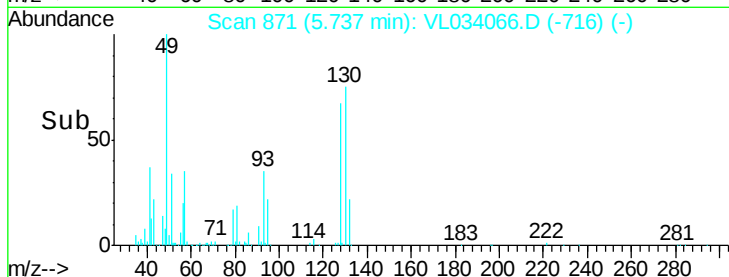
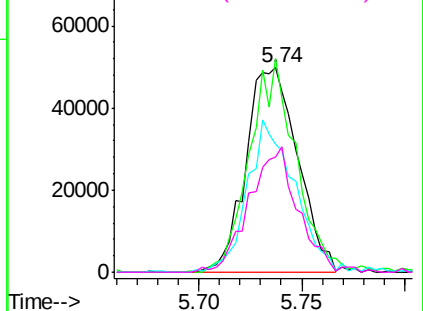


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.298 ppbv m

RT: 7.20 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

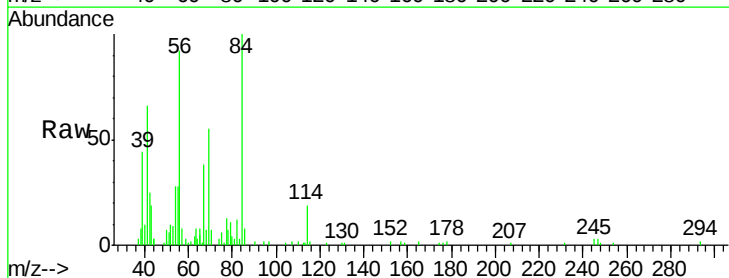
Tgt Ion: 84 Resp: 40029

Ion Ratio Lower Upper

84 100

56 0.0 101.7 152.5#

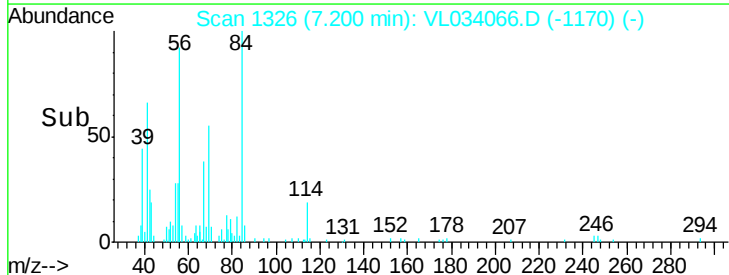
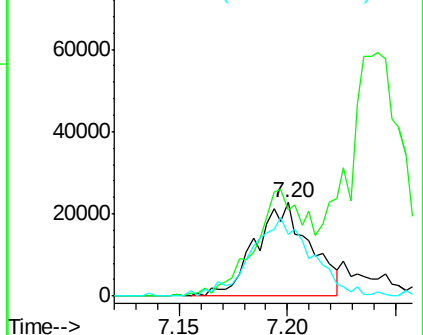
41 0.0 59.4 89.0#

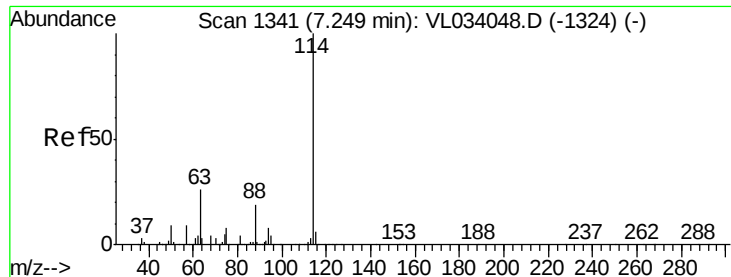


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





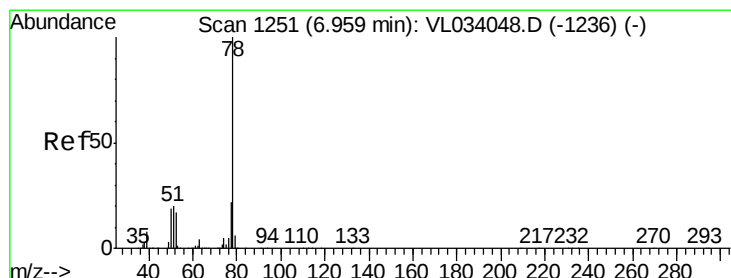
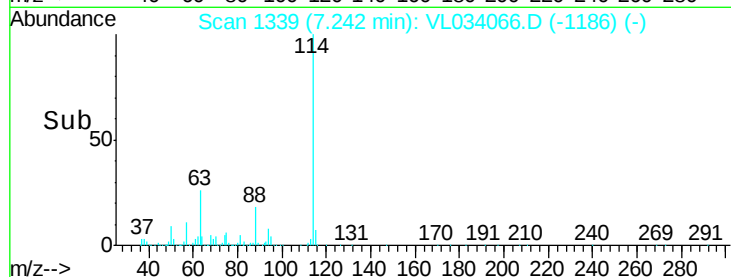
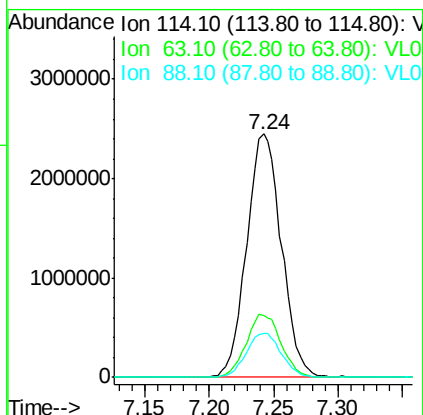
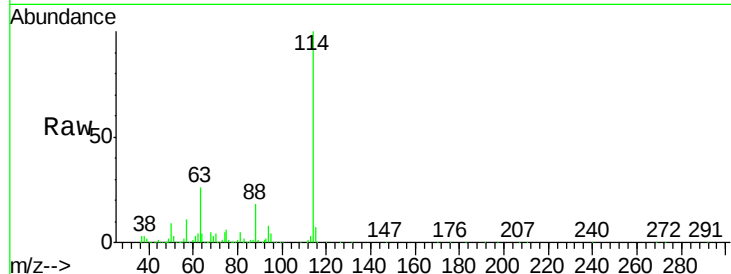
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: VL034066.D
 Acq: 30 Jul 2019 15:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DLDUP

Tot Ion:114 Resp: 4585203
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.0 31.6
 88 18.3 14.7 22.1

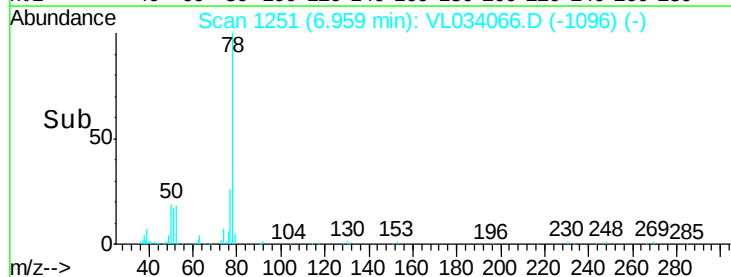
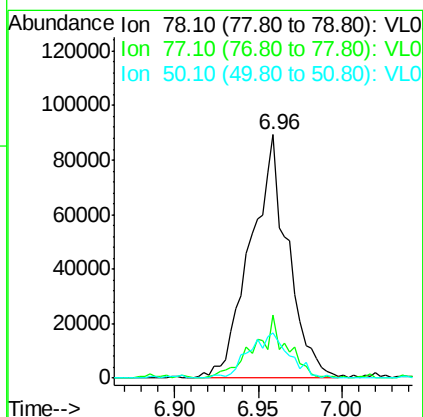
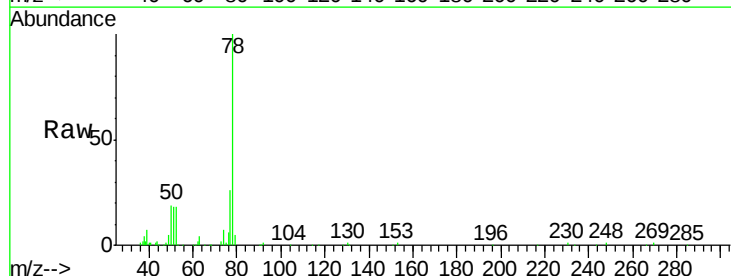
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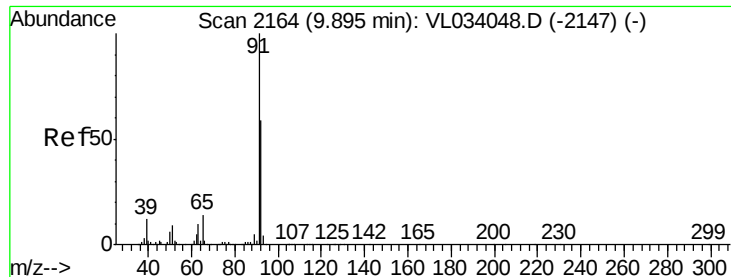
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#36
 Benzene
 Concen: 0.455 ppbv m
 RT: 6.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VL034066.D
 Acq: 30 Jul 2019 15:30

Tgt Ion: 78 Resp: 139010
 Ion Ratio Lower Upper
 78 100
 77 25.7 17.9 26.9
 50 18.6 14.9 22.3





#53

Toluene

Concen: 5.551 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

SSG2DLDUP

Tot Ion: 91 Resp: 1767837

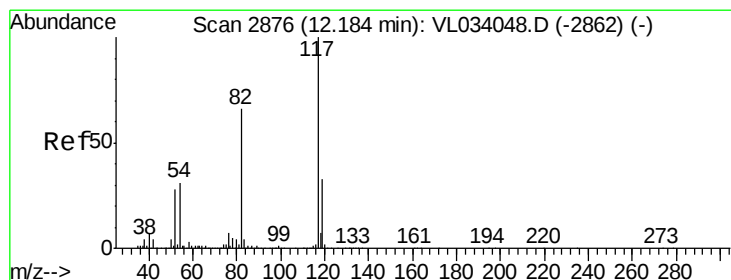
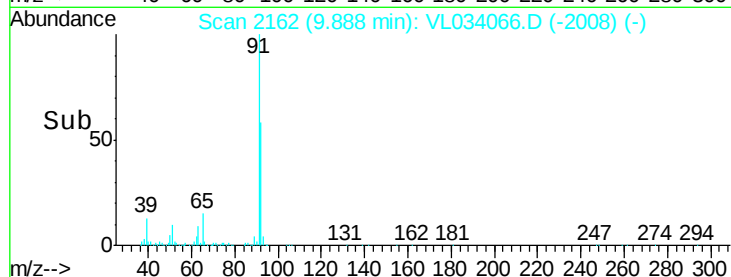
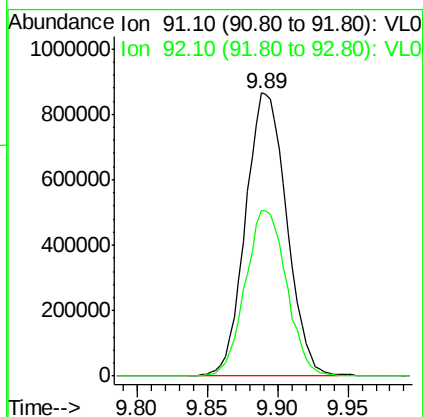
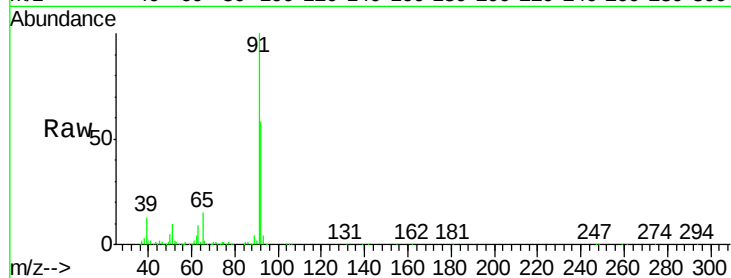
Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.2

Manual Integrations
APPROVED

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2876

Delta R.T. -0.00 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

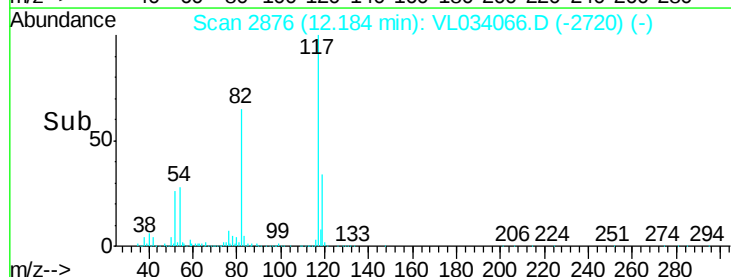
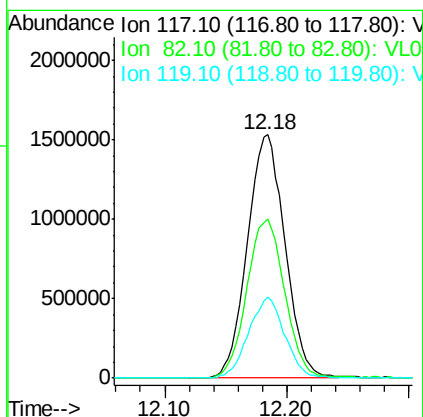
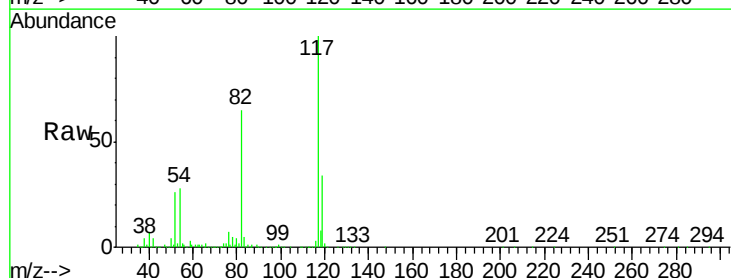
Tgt Ion: 117 Resp: 3262297

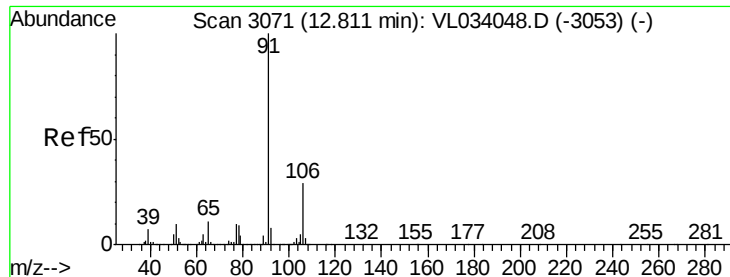
Ion Ratio Lower Upper

117 100

82 65.9 49.8 74.8

119 32.3 43.0 64.6#





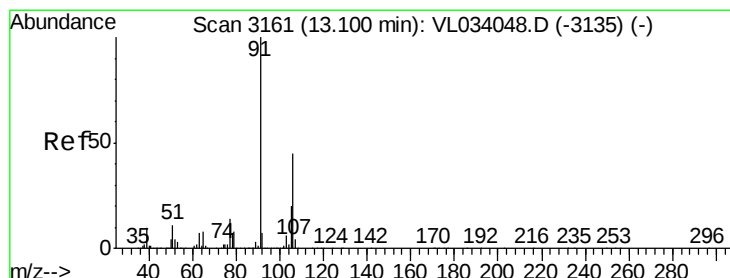
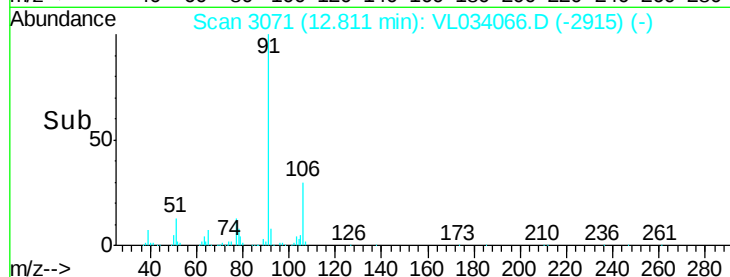
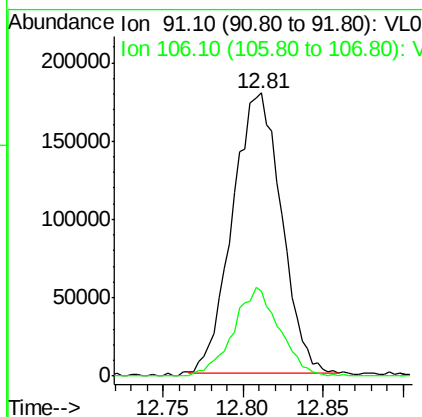
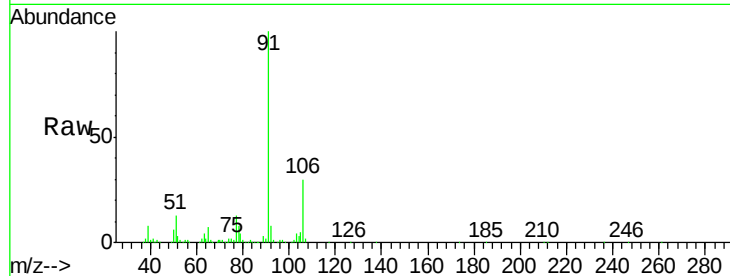
#58
Ethyl Benzene
Concen: 0.972 ppbv
RT: 12.81 min Scan# 3071
Delta R.T. -0.00 min
Lab File: VL034066.D
Acq: 30 Jul 2019 15:30

Instrument :
MSVOA_L
ClientSampleId :
SSG2DLDUP

Tot Ion: 91 Resp: 375279
Ion Ratio Lower Upper
91 100
106 30.3 23.5 35.3

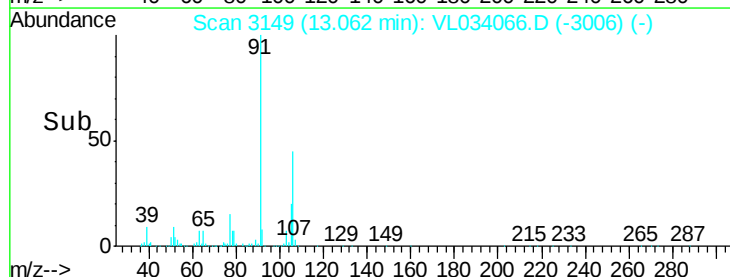
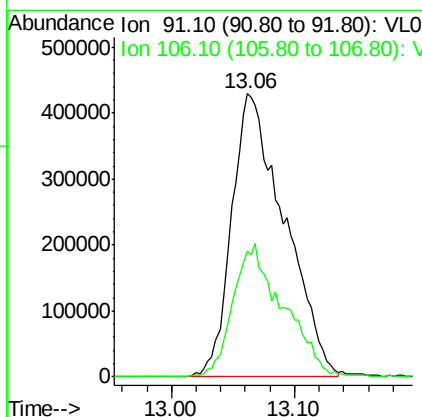
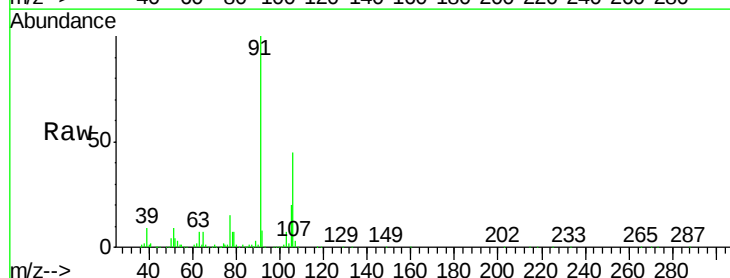
Manual Integrations
APPROVED

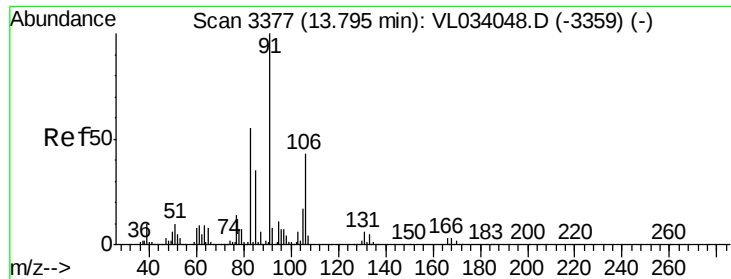
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#59
m/p-Xylene
Concen: 3.649 ppbv m
RT: 13.06 min Scan# 3149
Delta R.T. -0.04 min
Lab File: VL034066.D
Acq: 30 Jul 2019 15:30

Tgt Ion: 91 Resp: 1280658
Ion Ratio Lower Upper
91 100
106 0.0 35.1 52.7#





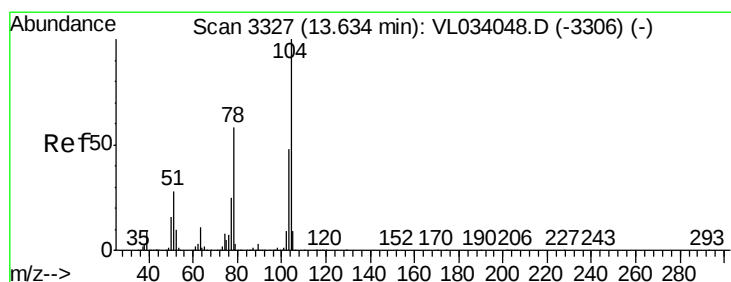
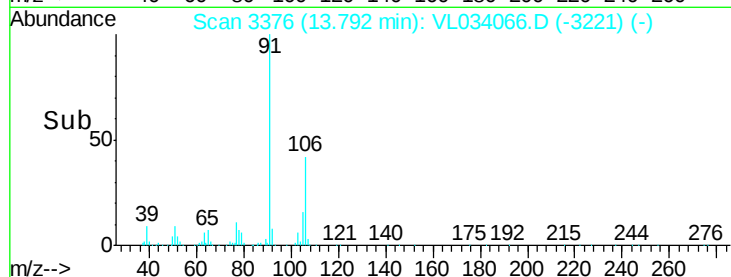
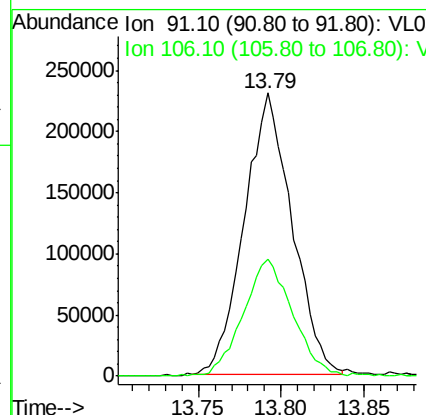
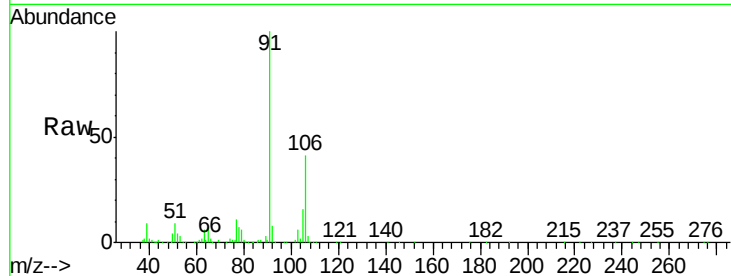
#60
o-Xylene
Concen: 1.328 ppbv
RT: 13.79 min Scan# 3376
Delta R.T. -0.00 min
Lab File: VL034066.D
Acq: 30 Jul 2019 15:30

Instrument :
MSVOA_L
ClientSampleId :
SSG2DLDUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		463385		
106	43.4	21.2	63.6		

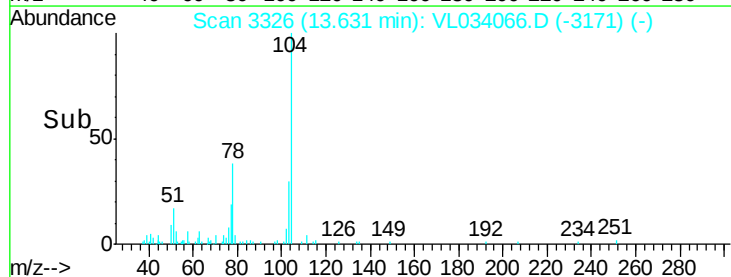
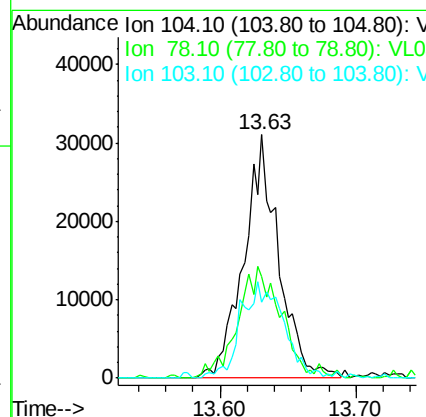
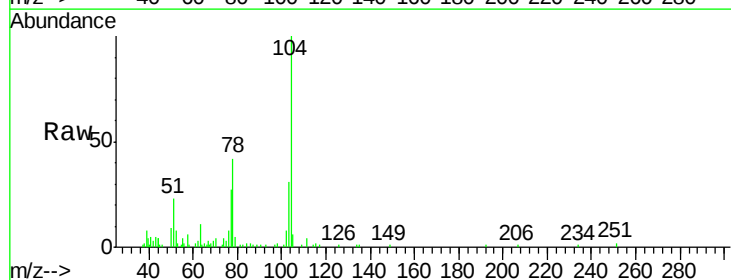
Manual Integrations
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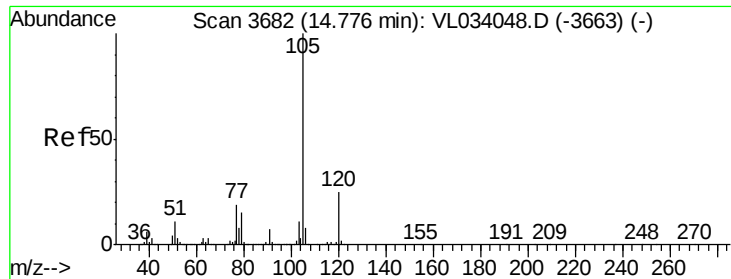
MMDadoda
8/2/2019 9:37:48 AM



#61
Styrene
Concen: 0.239 ppbv m
RT: 13.63 min Scan# 3326
Delta R.T. -0.00 min
Lab File: VL034066.D
Acq: 30 Jul 2019 15:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		55087		
78	58.4	44.3	66.5		
103	49.2	38.8	58.2		





#62

Isopropylbenzene

Concen: 0.211 ppbv

RT: 14.77 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

SSG2DLDUP

Tot Ion:105 Resp: 98389

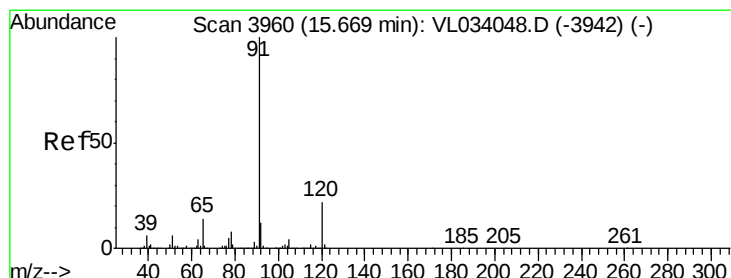
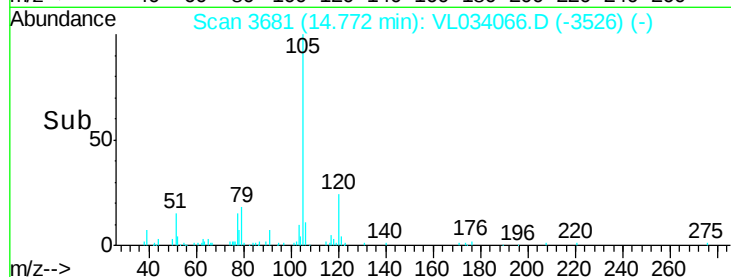
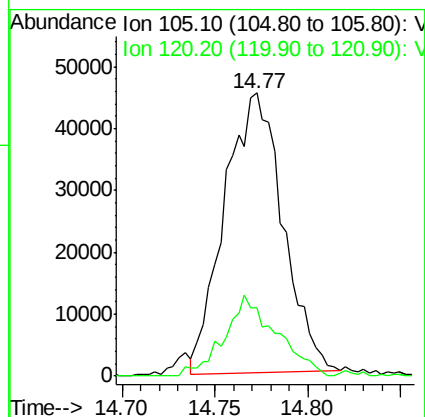
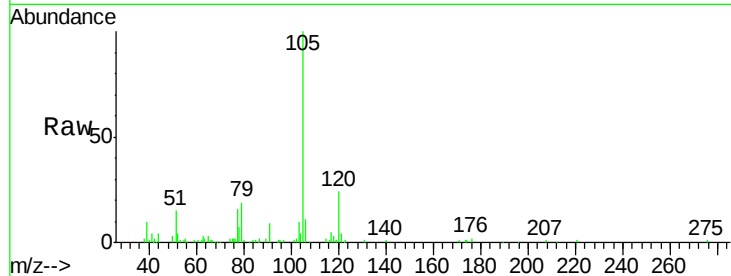
Ion Ratio Lower Upper

105 100

120 26.3 20.2 30.2

Manual Integrations
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MMdadoda
8/2/2019 9:37:48 AM



#64

n-propylbenzene

Concen: 0.332 ppbv m

RT: 15.67 min Scan# 3959

Delta R.T. -0.00 min

Lab File: VL034066.D

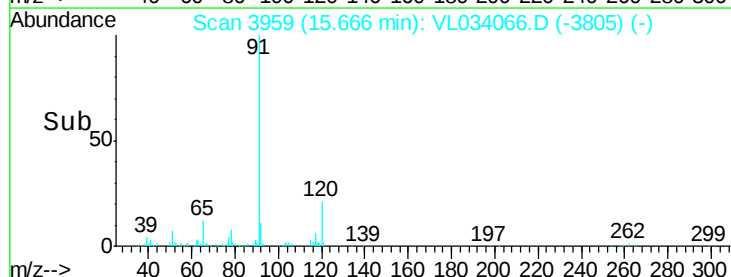
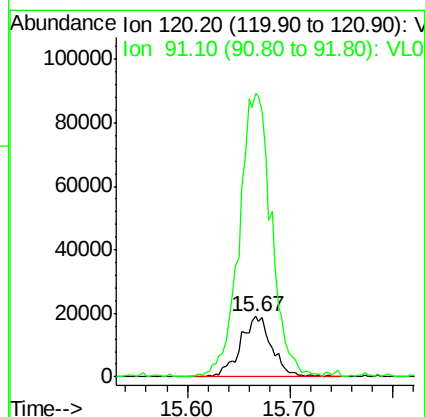
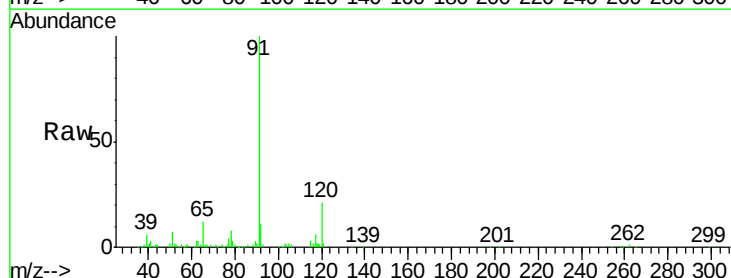
Acq: 30 Jul 2019 15:30

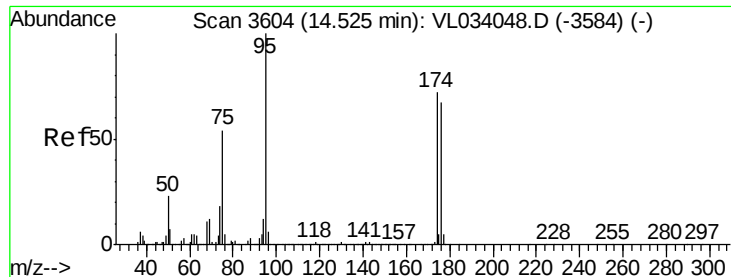
Tgt Ion:120 Resp: 40222

Ion Ratio Lower Upper

120 100

91 0.0 386.2 579.2#





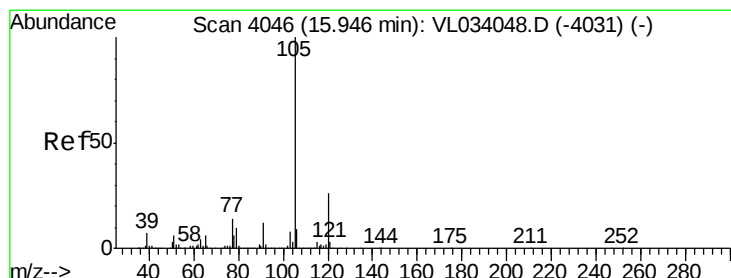
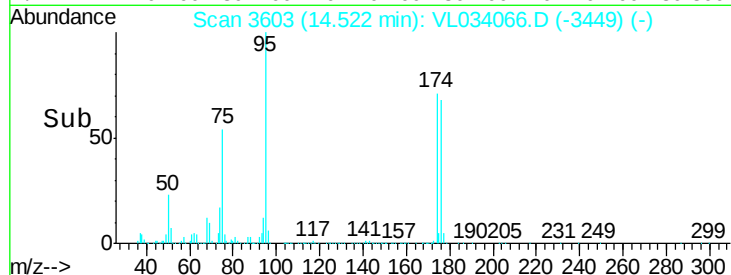
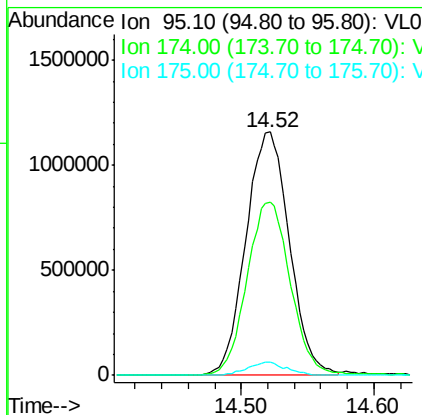
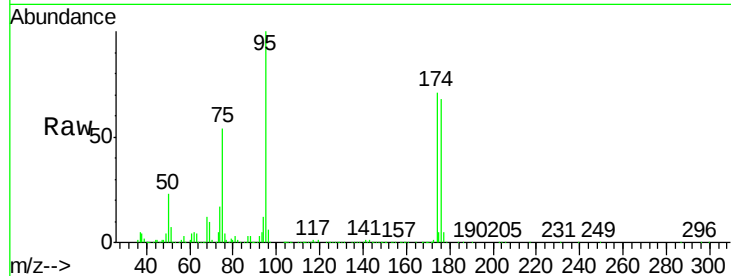
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.219 ppbv
 RT: 14.52 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VL034066.D
 Acq: 30 Jul 2019 15:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DLDUP

Tot Ion: 95 Resp: 2635223
 Ion Ratio Lower Upper
 95 100
 174 72.1 57.6 86.4
 175 5.0 4.1 6.1

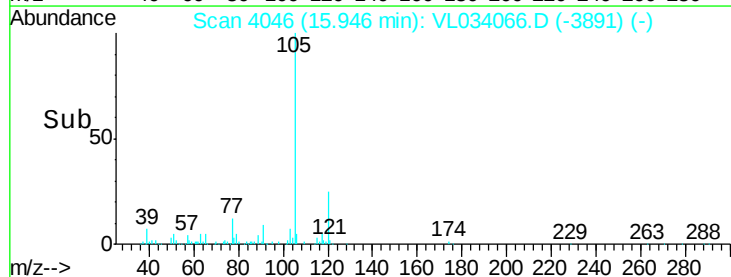
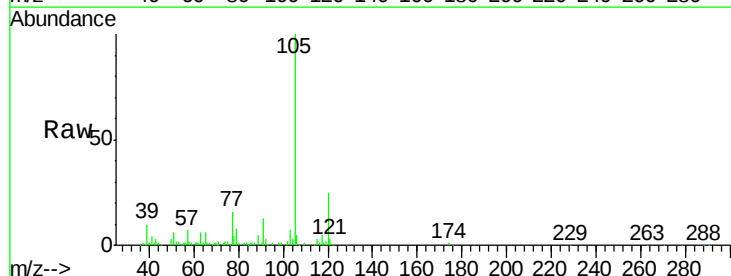
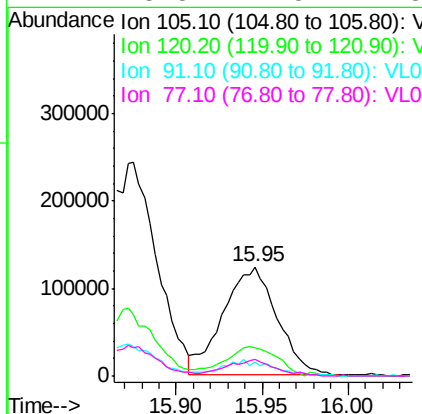
Manual Integrations
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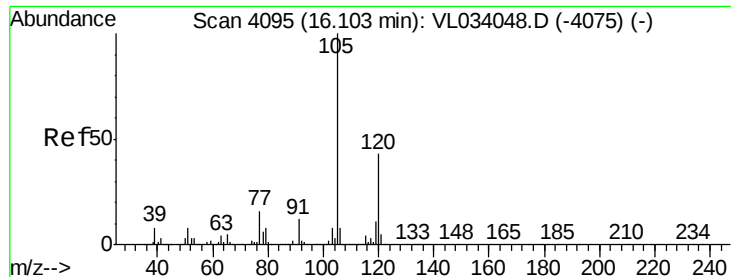
MMdadoda
 8/2/2019 9:37:48 AM



#72
 4-Ethyltoluene
 Concen: 0.675 ppbv
 RT: 15.95 min Scan# 4046
 Delta R.T. -0.00 min
 Lab File: VL034066.D
 Acq: 30 Jul 2019 15:30

Tgt Ion: 105 Resp: 266379
 Ion Ratio Lower Upper
 105 100
 120 27.9 23.0 34.4
 91 13.8 10.6 16.0
 77 13.8 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.433 ppbv m

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

SSG2DLDUP

Tot Ion:105 Resp: 174005

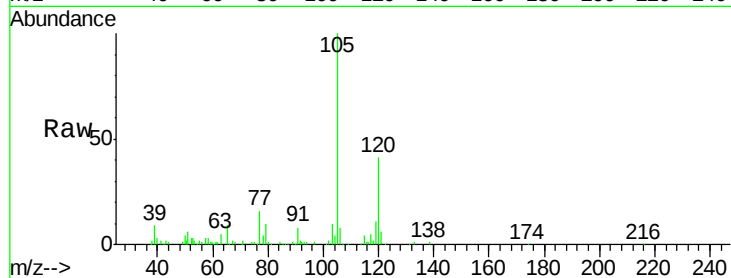
Ion Ratio Lower Upper

105 100

120 41.5 34.7 52.1

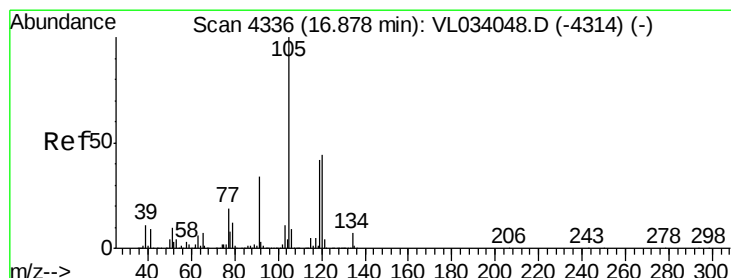
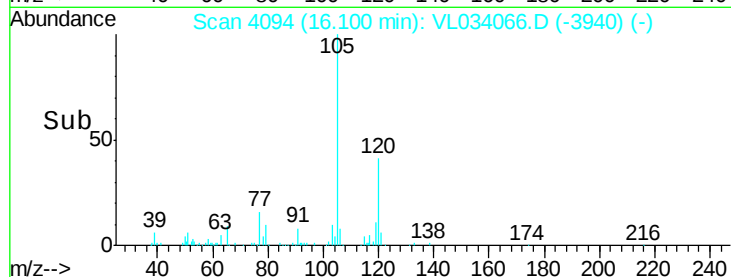
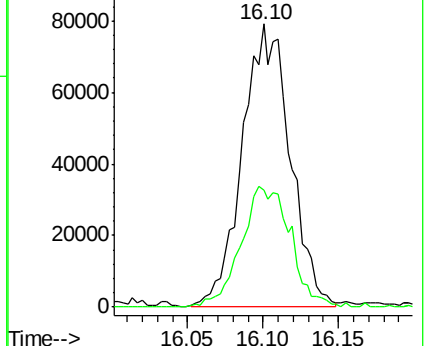
Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:48 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.711 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. -0.01 min

Lab File: VL034066.D

Acq: 30 Jul 2019 15:30

Tgt Ion:105 Resp: 754461

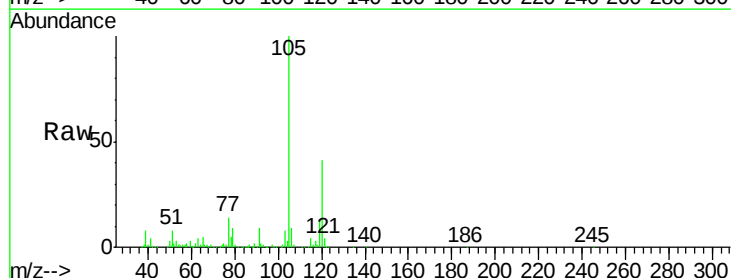
Ion Ratio Lower Upper

105 100

120 41.5 35.6 53.4

91 8.8 28.0 42.0#

77 13.5 15.2 22.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

