

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032967.D
 Acq On : 11 Dec 2018 23:17
 Operator : SY/AP
 Sample : J6264-15DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A55G1DL

Manual Integrations
 APPROVED

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 12/13/2018 7:58:48 AM

Quant Time: Dec 12 02:19:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1367836	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3587601	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3375084	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2497549	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.17	50	11396	0.189	ppbv	93
9) Propene	3.05	41	33808m	0.825	ppbv	
10) Heptane	8.25	43	27365m	0.178	ppbv	
11) Trichlorofluoromethane	4.01	101	21347	0.124	ppbv	88
13) Ethanol	3.66	45	103465	7.336	ppbv	94
15) Acetone	3.90	43	2647816	22.553	ppbv	98
19) Isopropyl Alcohol	4.04	45	57047m	0.774	ppbv	
20) Methylene Chloride	4.41	84	51497	0.897	ppbv	92
26) Hexane	5.78	57	91722	0.716	ppbv #	46
27) Carbon Disulfide	4.62	76	23566	0.147	ppbv #	57
34) 2-Butanone	5.34	43	214238	1.371	ppbv	97
36) Benzene	7.00	78	91320	0.346	ppbv	92
44) 2,2,4-Trimethylpentane	8.00	57	67703	0.151	ppbv	91
53) Toluene	9.95	91	231560m	0.827	ppbv	
58) Ethyl Benzene	12.87	91	50961	0.142	ppbv	98
59) m/p-Xylene	13.12	91	118141m	0.362	ppbv	
60) o-Xylene	13.85	91	38069m	0.115	ppbv	
62) Isopropylbenzene	14.83	105	783519	1.704	ppbv	100

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

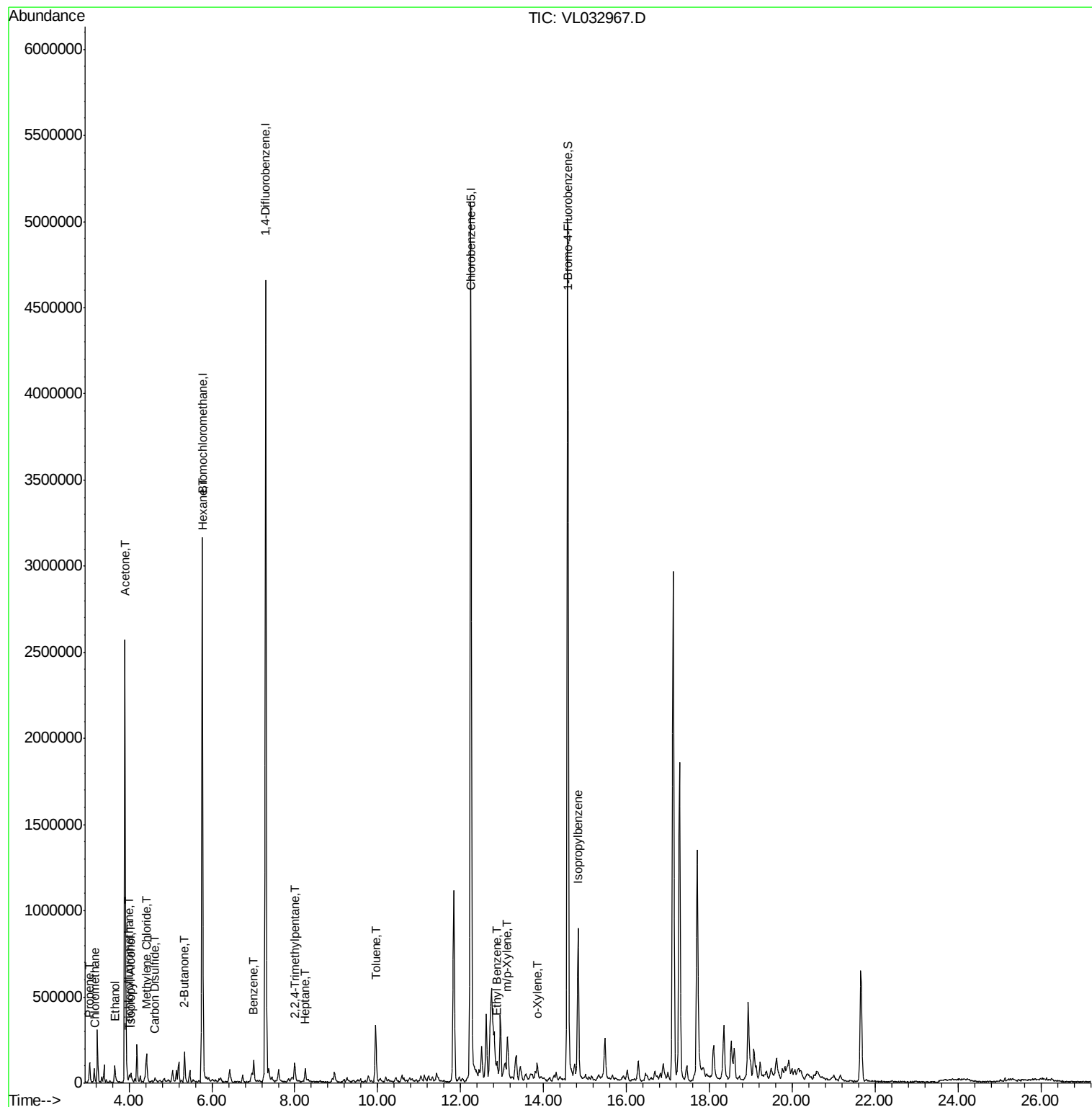
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032967.D
Acq On : 11 Dec 2018 23:17
Operator : SY/AP
Sample : J6264-15DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

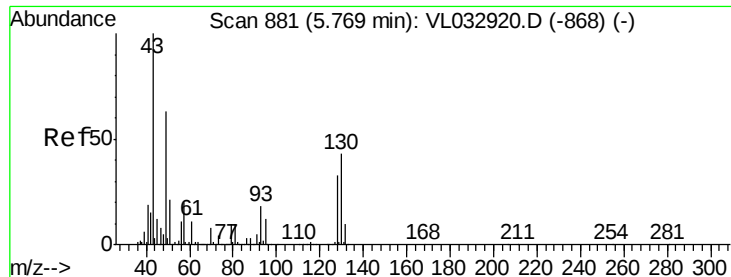
Instrument :
MSVOA_L
ClientSampleId :
A55G1DL

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Quant Time: Dec 12 02:19:20 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Instrument :

MSVOA_L

ClientSampleId :

A55G1DL

Tot Ion: 49 Resp: 1367836

Ion Ratio Lower Upper

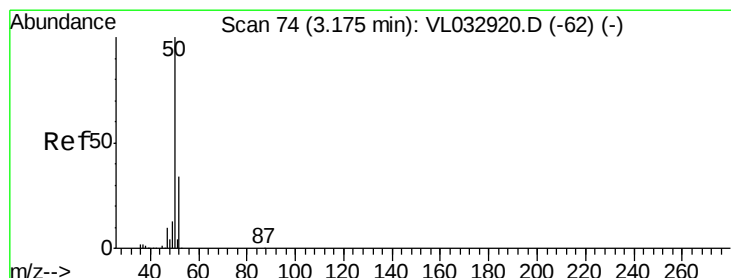
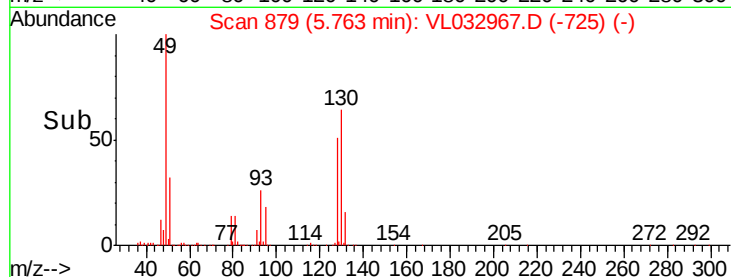
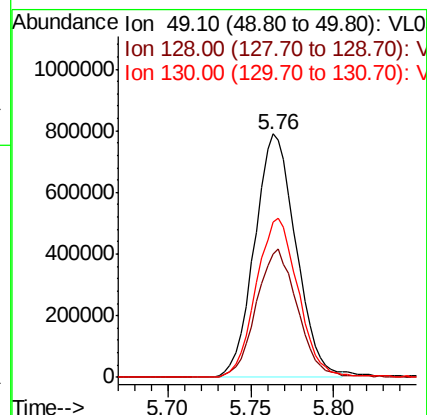
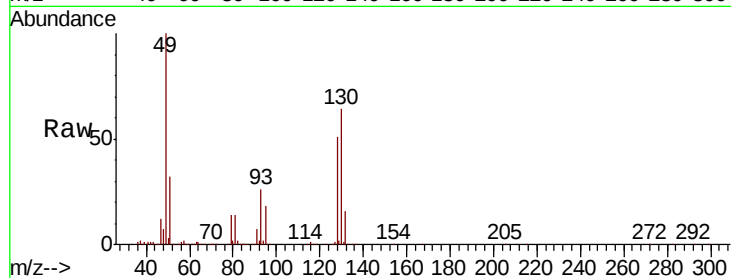
49 100

128 52.9 26.3 78.8

130 67.6 33.9 101.7

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#4

Chloromethane

Concen: 0.189 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032967.D

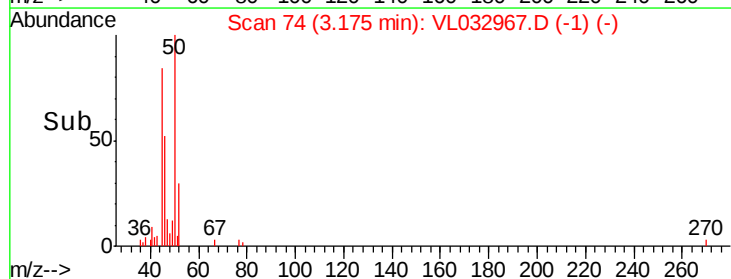
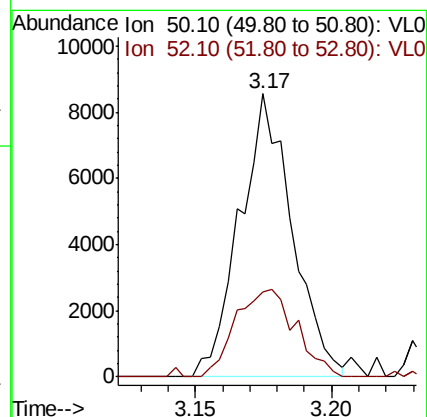
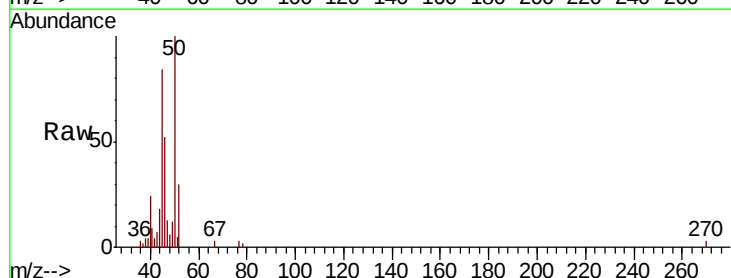
Acq: 11 Dec 2018 23:17

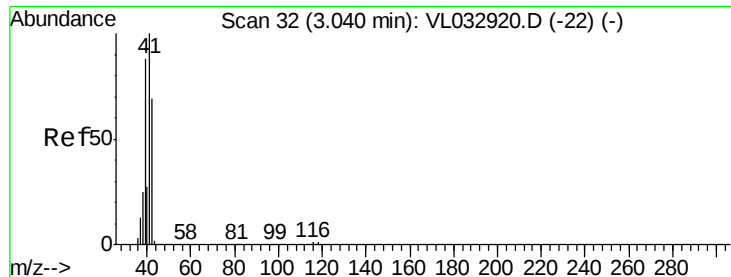
Tgt Ion: 50 Resp: 11396

Ion Ratio Lower Upper

50 100

52 30.0 27.3 40.9





#9

Propene

Concen: 0.825 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Instrument :

MSVOA_L

ClientSampleId :

A55G1DL

Tot Ion: 41 Resp: 33808

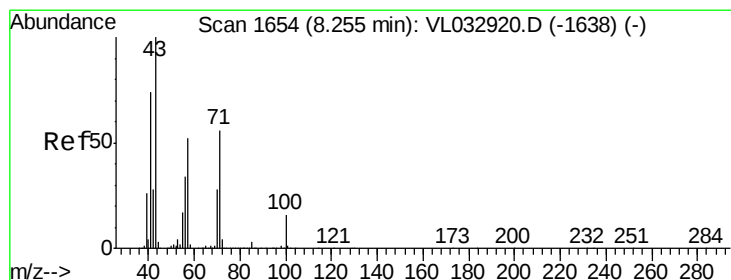
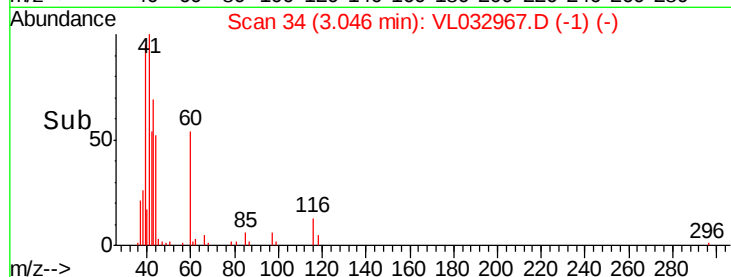
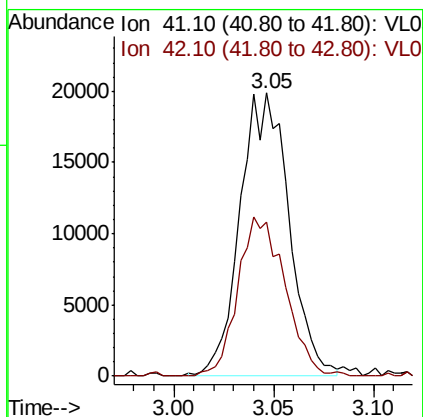
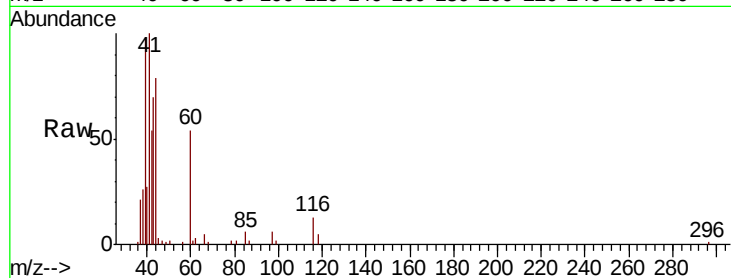
Ion Ratio Lower Upper

41 100

42 54.3 56.2 84.2#

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#10

Heptane

Concen: 0.178 ppbv m

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL032967.D

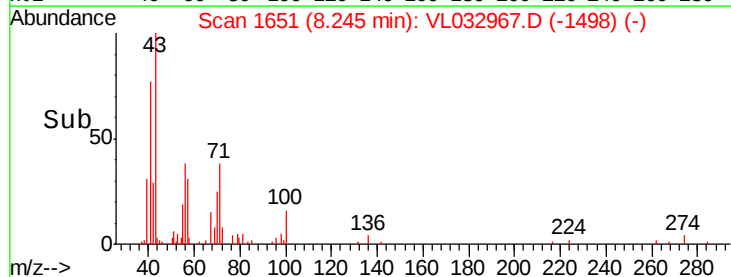
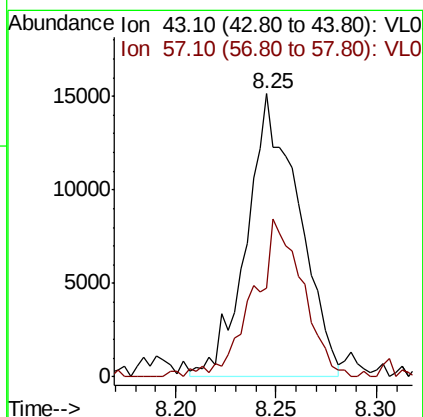
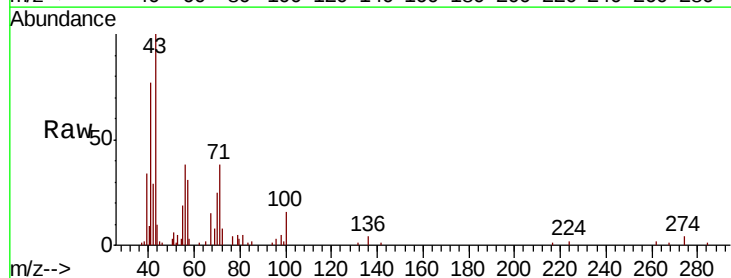
Acq: 11 Dec 2018 23:17

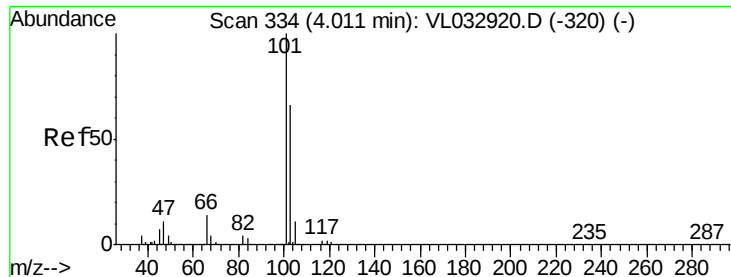
Tgt Ion: 43 Resp: 27365

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#





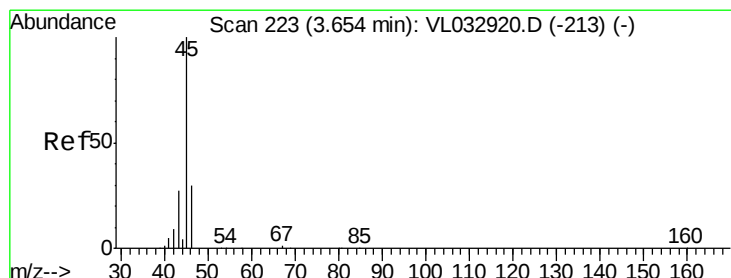
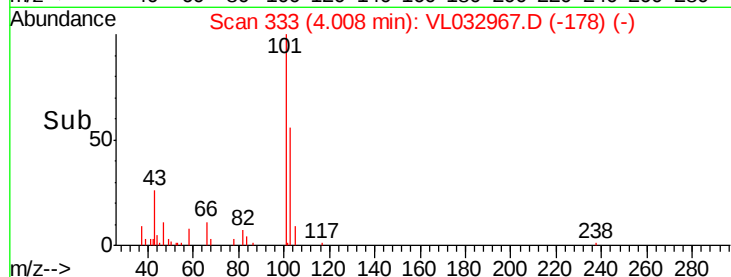
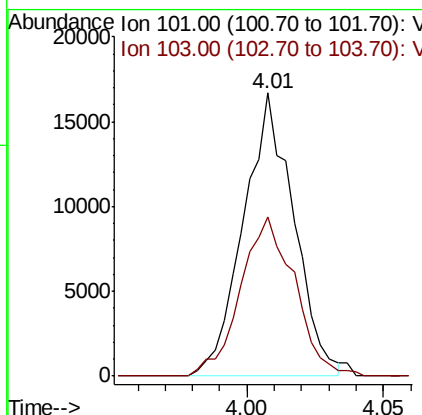
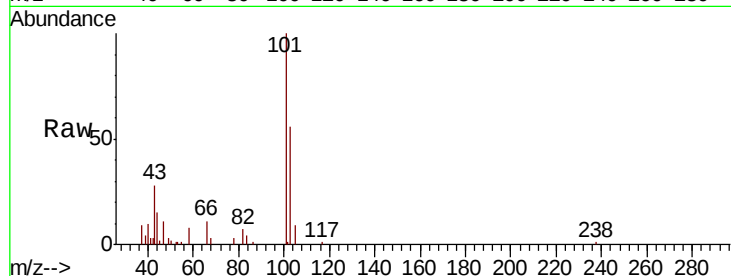
#11
Trichlorofluoromethane
Concen: 0.124 ppbv
RT: 4.01 min Scan# 333
Delta R.T. -0.00 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Instrument :
MSVOA_L
ClientSampleId :
A55G1DL

Tot Ion:101 Resp: 21347
Ion Ratio Lower Upper
101 100
103 56.3 52.7 79.1

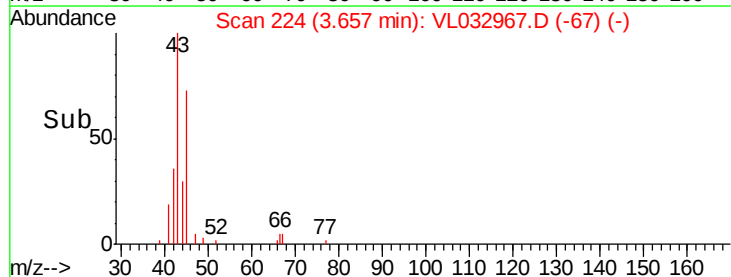
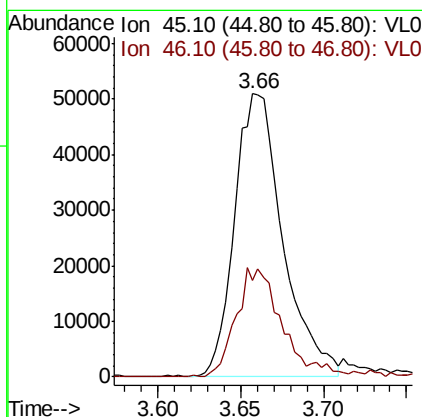
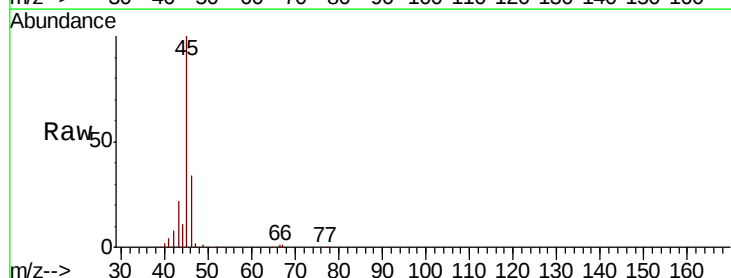
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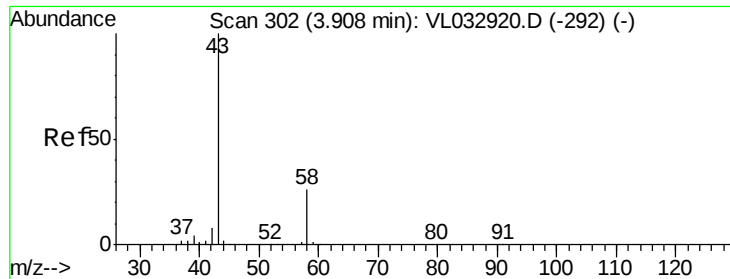
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#13
Ethanol
Concen: 7.336 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.00 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Tgt Ion: 45 Resp: 103465
Ion Ratio Lower Upper
45 100
46 37.9 13.8 55.4





#15

Acetone

Concen: 22.553 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Instrument :

MSVOA_L

ClientSampleId :

A55G1DL

Tot Ion: 43 Resp: 2647816

Ion Ratio Lower Upper

43 100

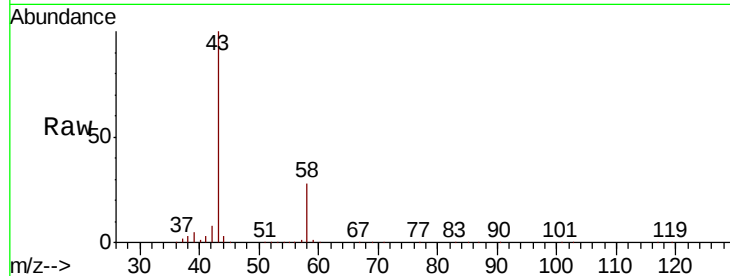
58 26.9 20.6 30.8

Manual Integrations

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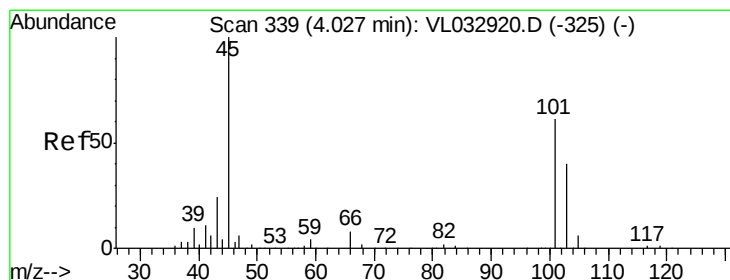
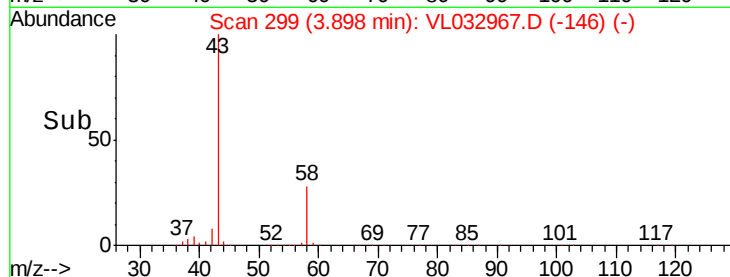
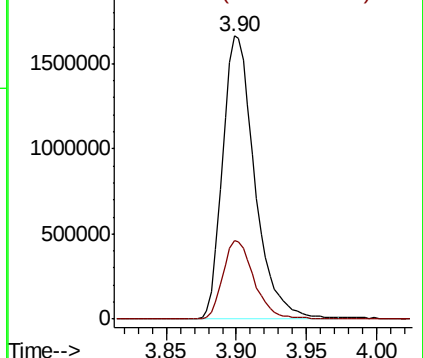
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.774 ppbv m

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL032967.D

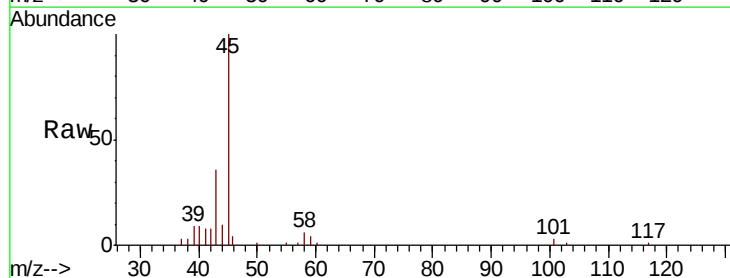
Acq: 11 Dec 2018 23:17

Tgt Ion: 45 Resp: 57047

Ion Ratio Lower Upper

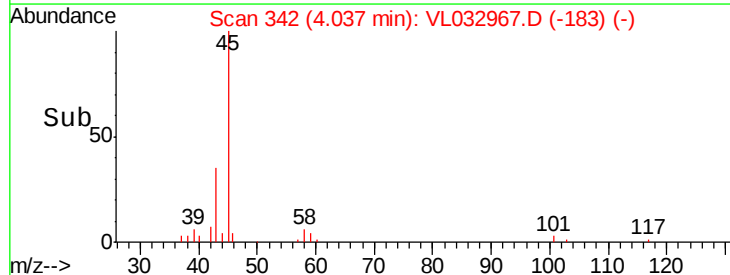
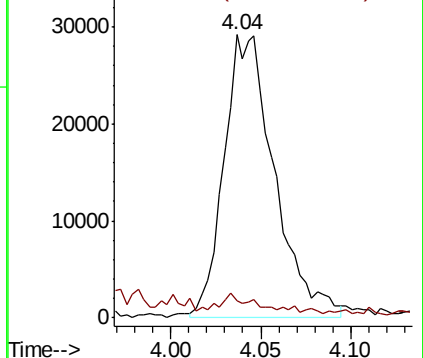
45 100

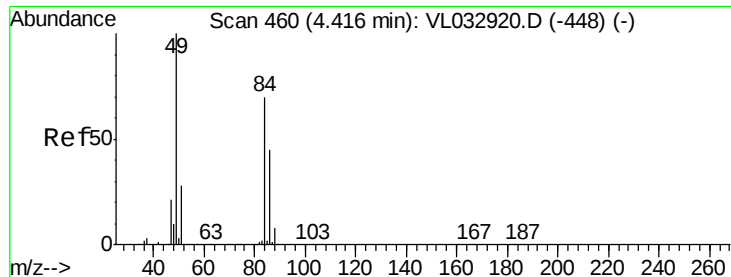
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





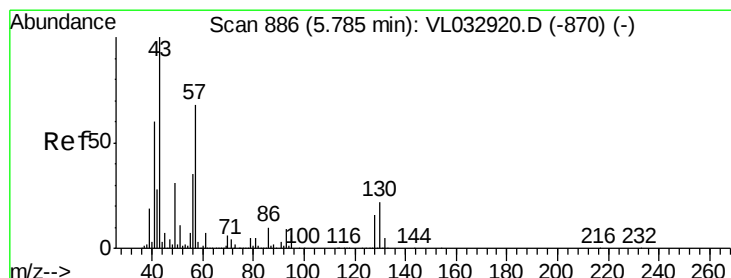
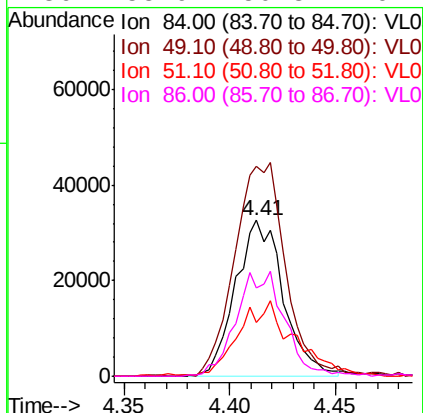
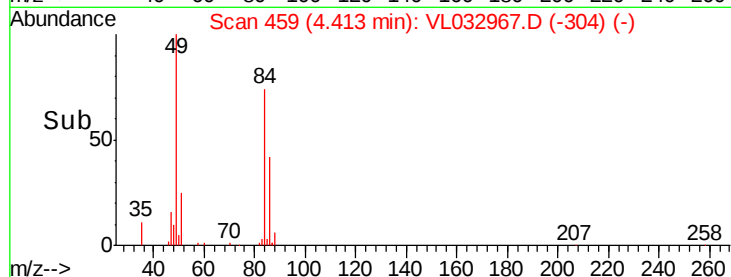
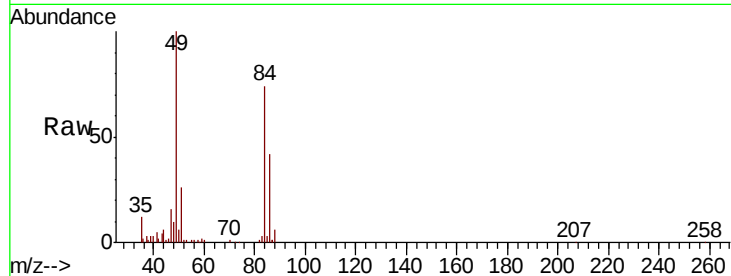
#20
Methvlene Chloride
Concen: 0.897 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Instrument :
MSVOA_L
ClientSampleId :
A55G1DL

Tot Ion:	84	Resp:	51497
Ion	Ratio	Lower	Upper
84	100		
49	134.2	113.8	170.8
51	33.7	31.8	47.8
86	55.9	50.8	76.2

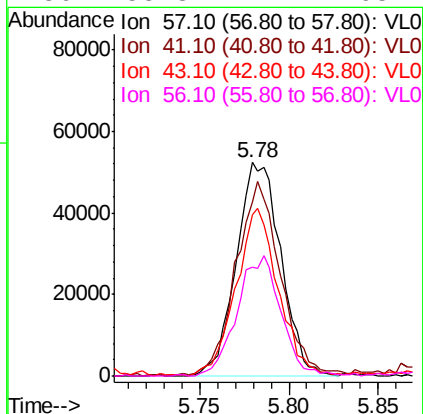
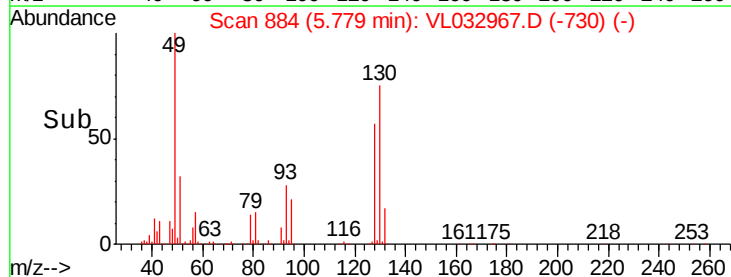
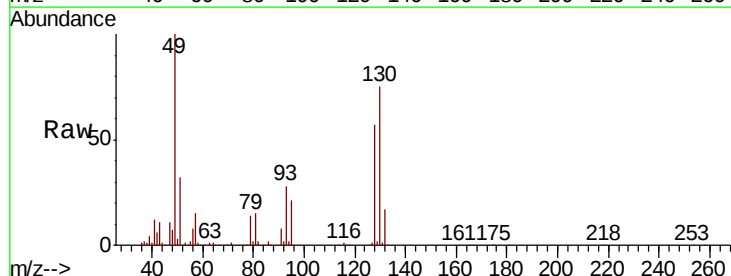
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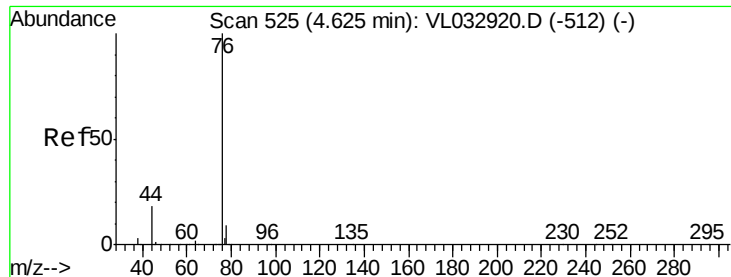
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#26
Hexane
Concen: 0.716 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Tgt Ion:	57	Resp:	91722
Ion	Ratio	Lower	Upper
57	100		
41	90.0	72.2	108.2
43	74.3	171.9	257.9#
56	55.3	42.2	63.2





#27

Carbon Disulfide

Concen: 0.147 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Instrument :

MSVOA_L

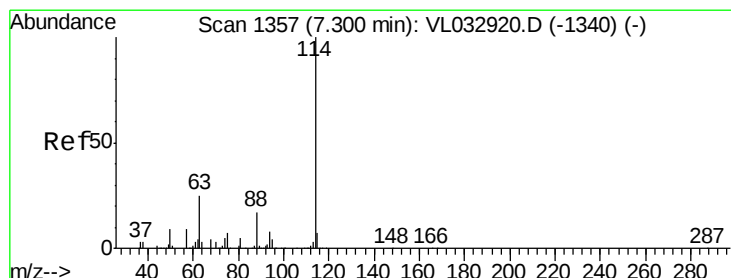
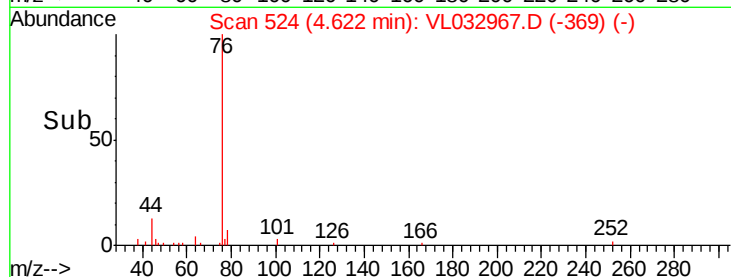
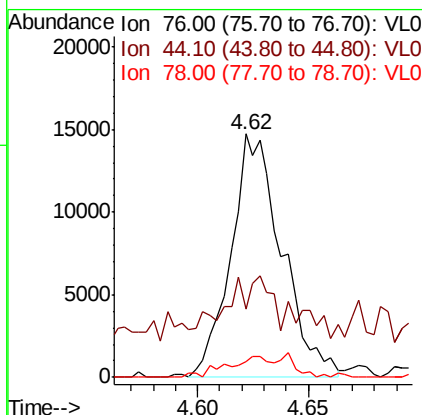
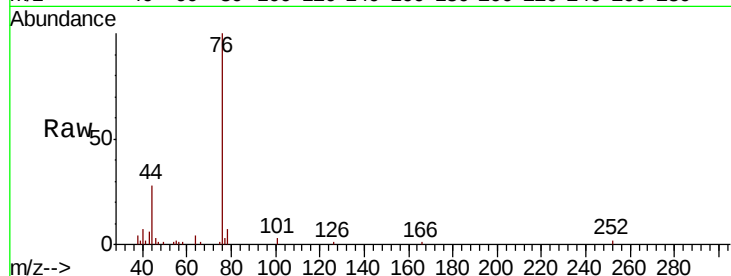
ClientSampleId :

A55G1DL

Tot Ion:	76	Resp:	23566
Ion	Ratio	Lower	Upper
76	100		
44	45.9	14.7	22.1#
78	11.0	7.4	11.2

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

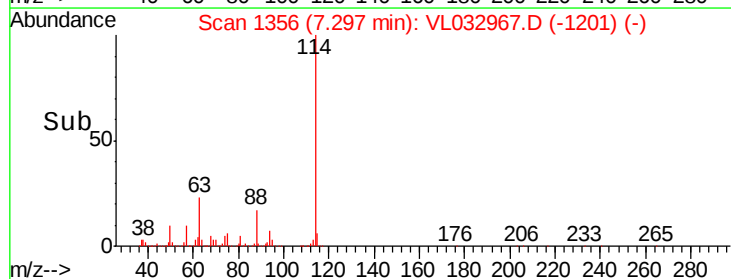
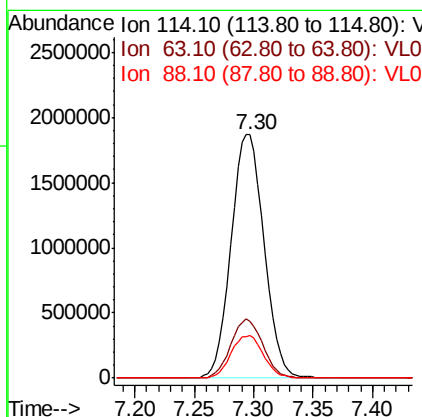
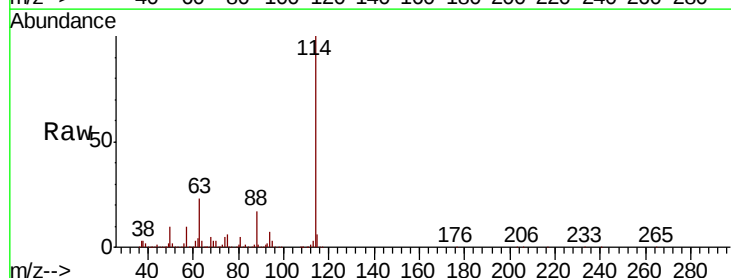
RT: 7.30 min Scan# 1356

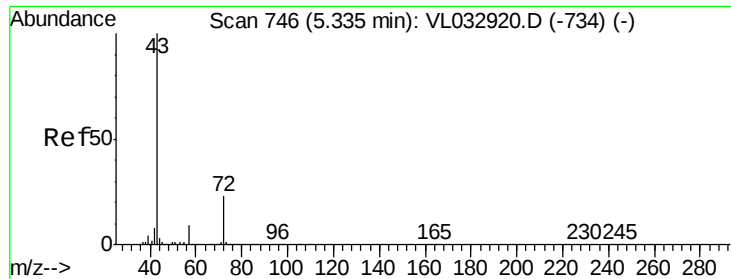
Delta R.T. -0.00 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Tgt Ion:	114	Resp:	3587601
Ion	Ratio	Lower	Upper
114	100		
63	23.7	20.1	30.1
88	17.3	14.2	21.4





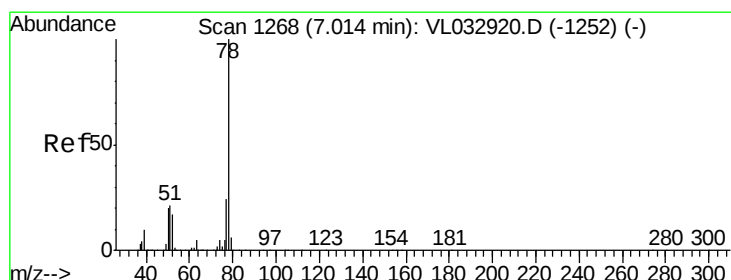
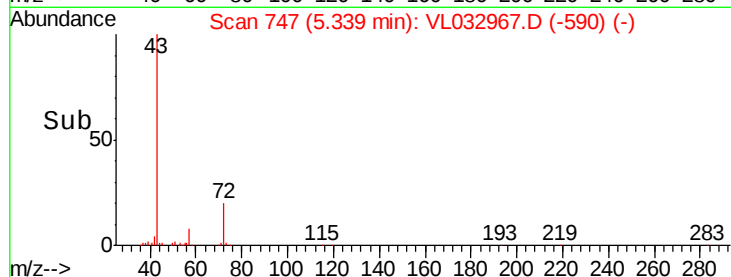
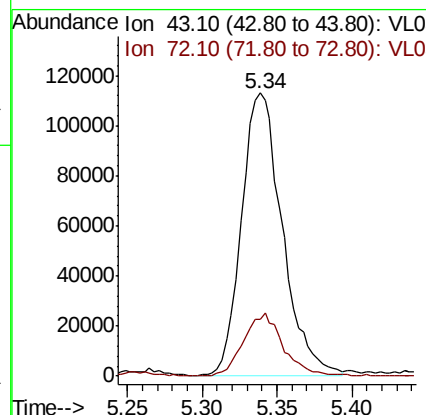
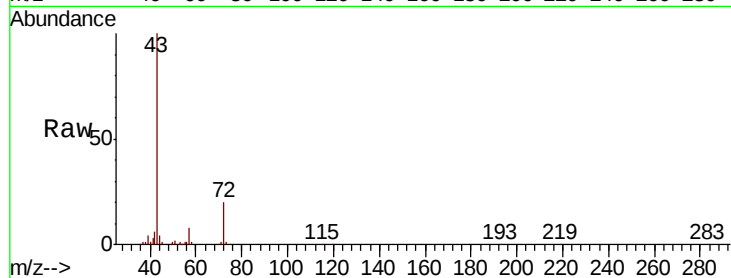
#34
2-Butanone
Concen: 1.371 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.00 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Instrument :
MSVOA_L
ClientSampleId :
A55G1DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.8	28.2

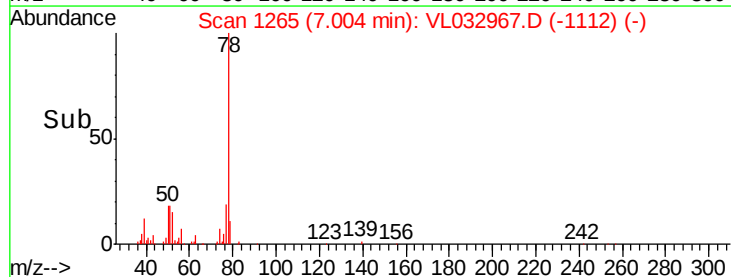
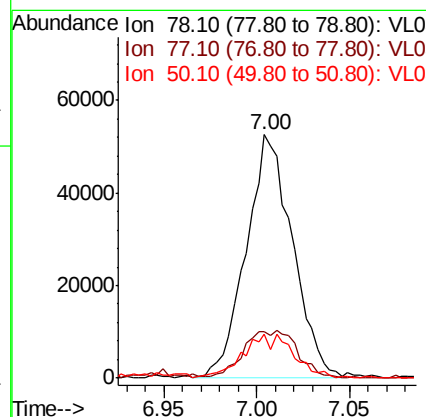
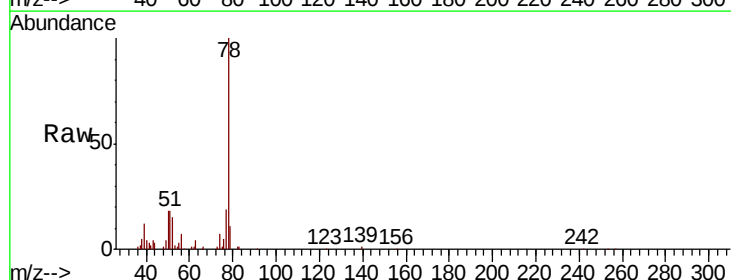
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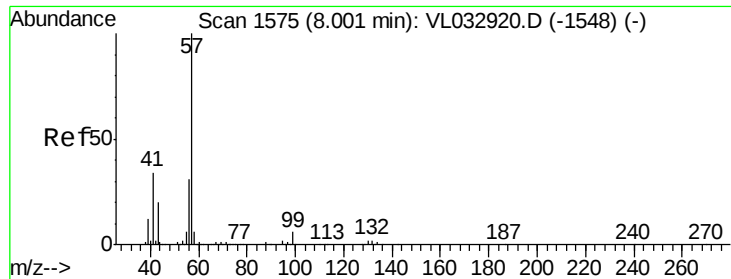
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#36
Benzene
Concen: 0.346 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.9	28.3
50	17.8	16.1	24.1





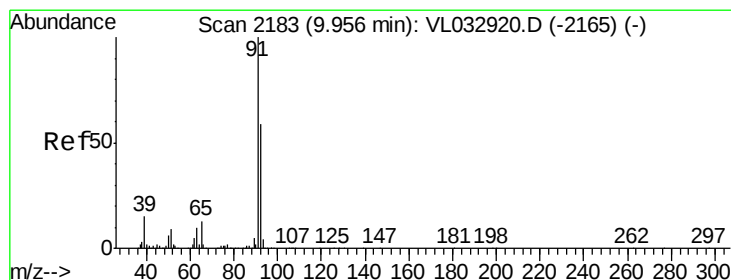
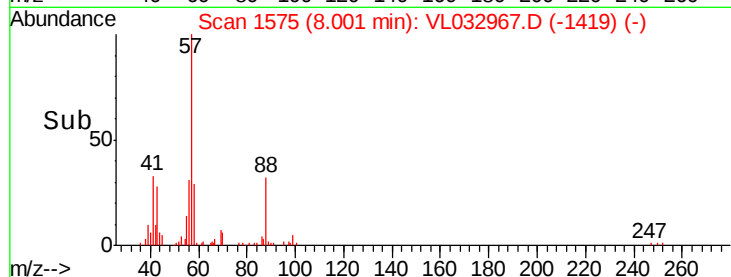
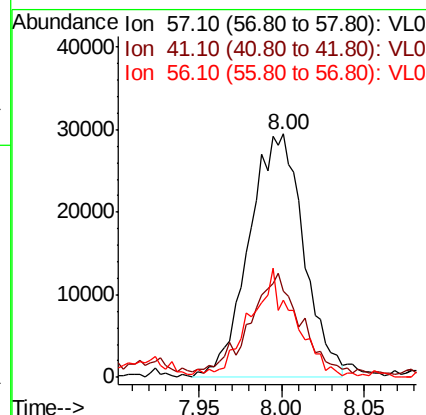
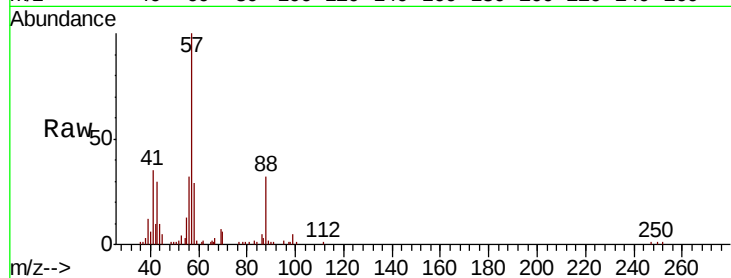
#44
 2,2,4-Trimethylpentane
 Concen: 0.151 ppbv
 RT: 8.00 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VL032967.D
 Acq: 11 Dec 2018 23:17

Instrument :
 MSVOA_L
 ClientSampleId :
 A55G1DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	38.0	27.0	40.4
56	36.9	24.6	37.0

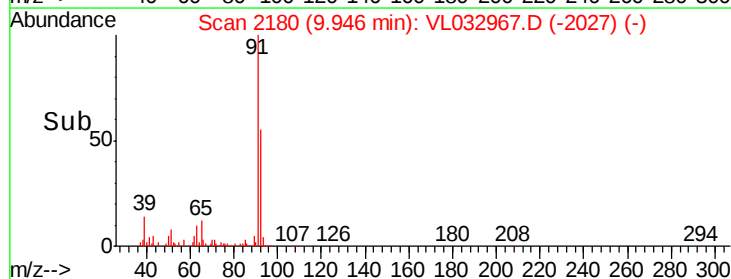
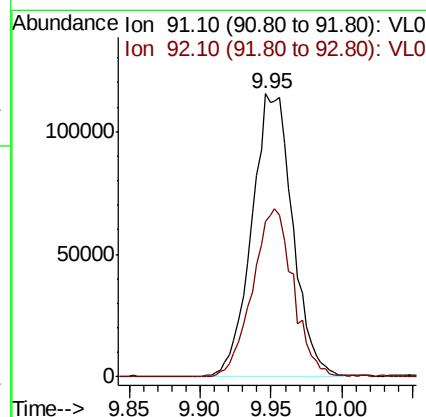
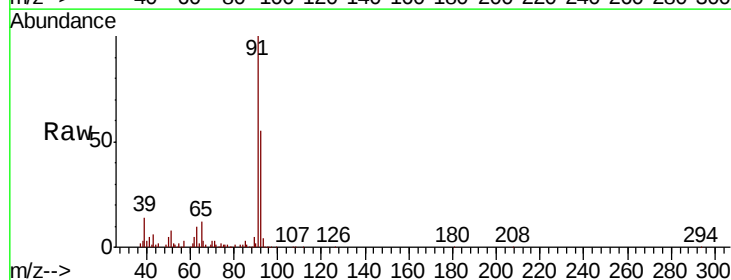
Manual Integrations
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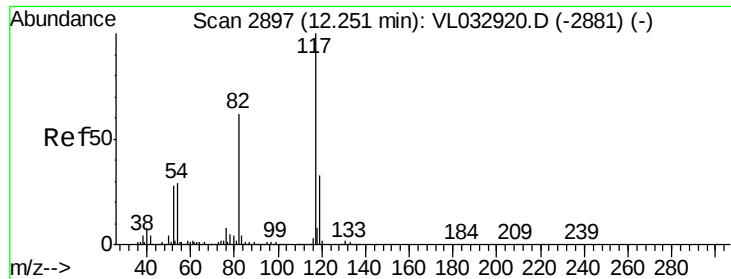
MMDadoda
 12/13/2018 7:58:48 AM



#53
 Toluene
 Concen: 0.827 ppbv m
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.01 min
 Lab File: VL032967.D
 Acq: 11 Dec 2018 23:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.4	71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Instrument :

MSVOA_L

ClientSampleId :

A55G1DL

Tot Ion:117 Resp: 3375084

Ion Ratio Lower Upper

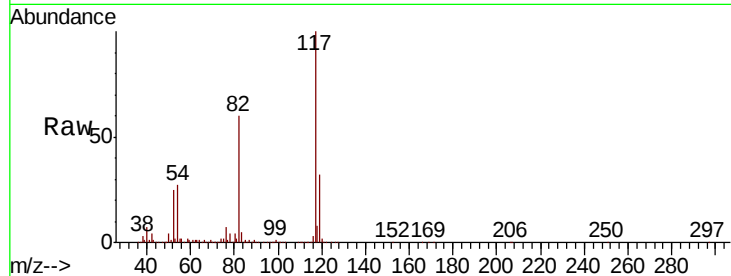
117 100

82 62.4 47.8 71.8

119 33.1 43.1 64.7#

Manual Integrations
APPROVED

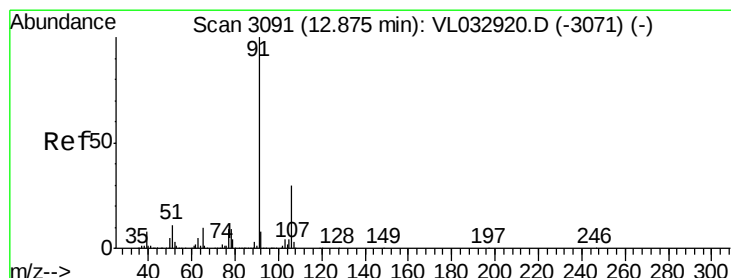
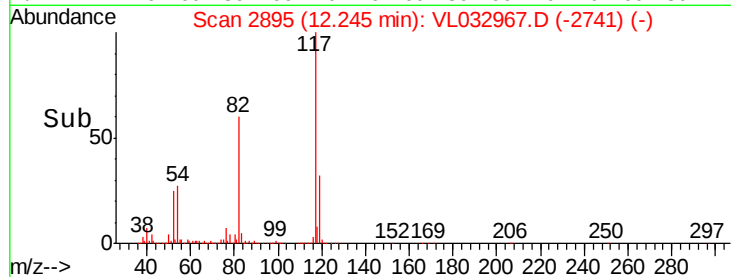
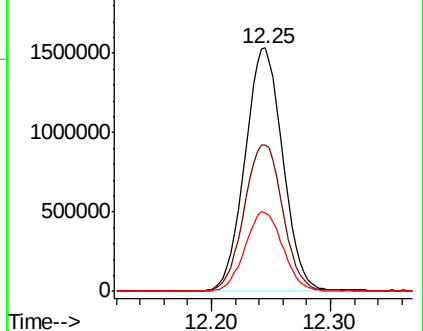
MMDadoda
12/13/2018 7:58:48 AM



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



#58

Ethyl Benzene

Concen: 0.142 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032967.D

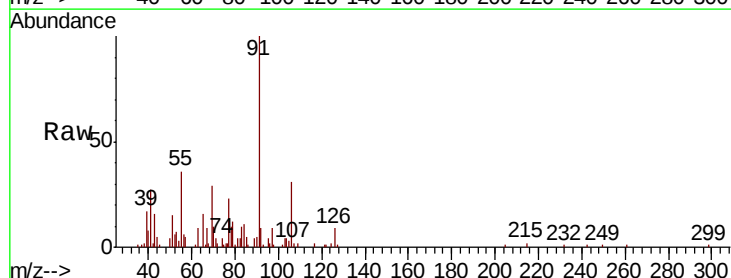
Acq: 11 Dec 2018 23:17

Tgt Ion: 91 Resp: 50961

Ion Ratio Lower Upper

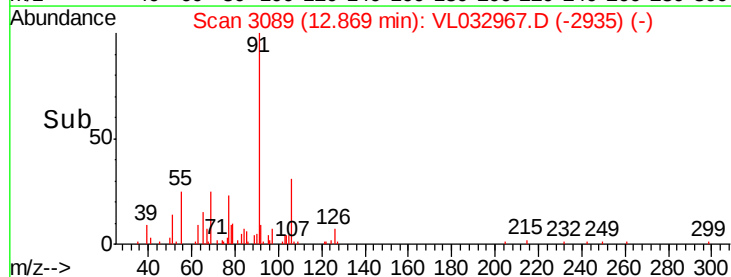
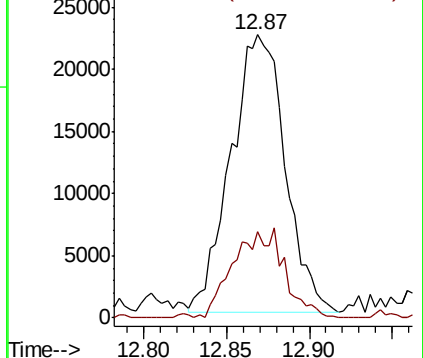
91 100

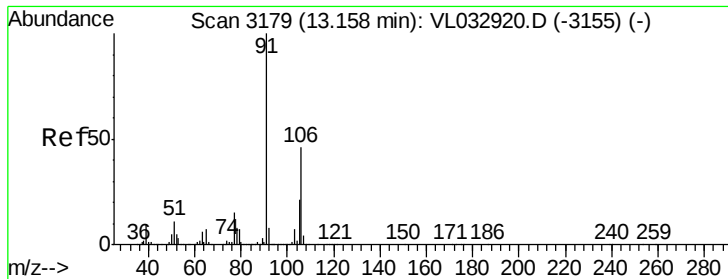
106 31.2 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





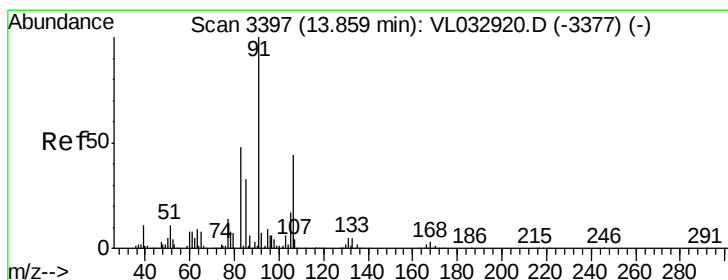
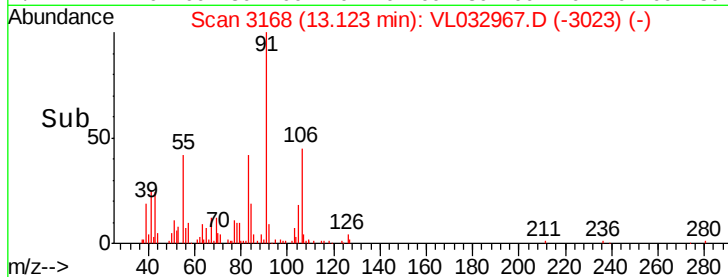
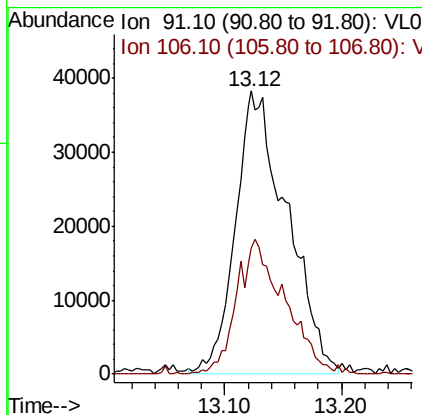
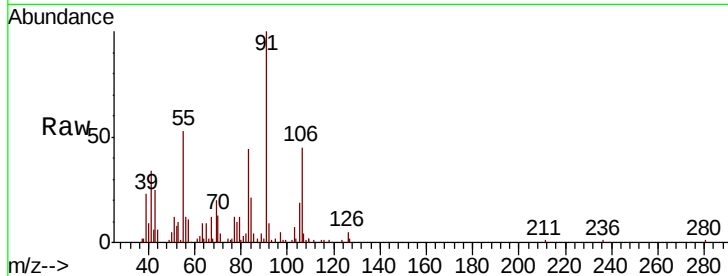
#59
m/p-Xylene
Concen: 0.362 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Instrument :
MSVOA_L
ClientSampled :
A55G1DL

Tot Ion: 91 Resp: 118141
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

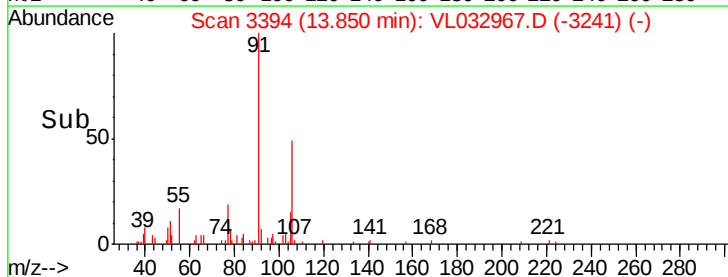
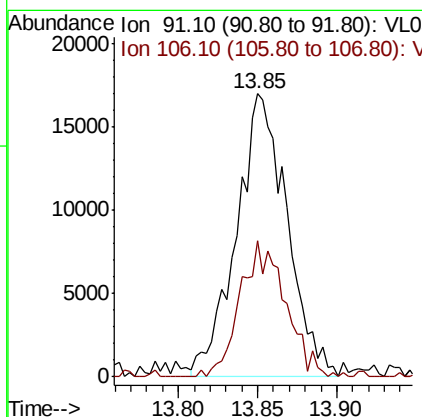
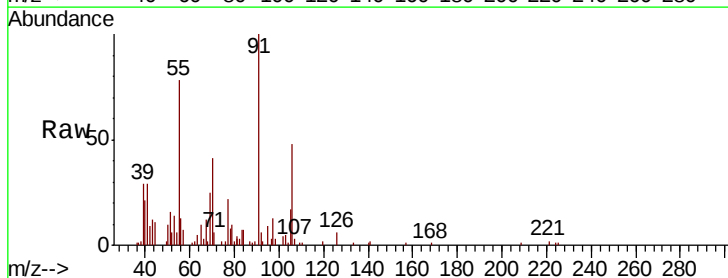
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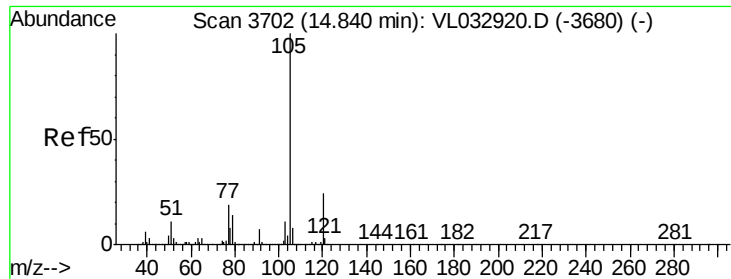
MMDadoda
12/13/2018 7:58:48 AM



#60
o-Xylene
Concen: 0.115 ppbv m
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL032967.D
Acq: 11 Dec 2018 23:17

Tgt Ion: 91 Resp: 38069
Ion Ratio Lower Upper
91 100
106 42.9 21.9 65.8





#62

Isopropylbenzene

Concen: 1.704 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.01 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Instrument :

MSVOA_L

ClientSampleId :

A55G1DL

Tot Ion: 105 Resp: 783519

Ion Ratio Lower Upper

105 100

120 25.3

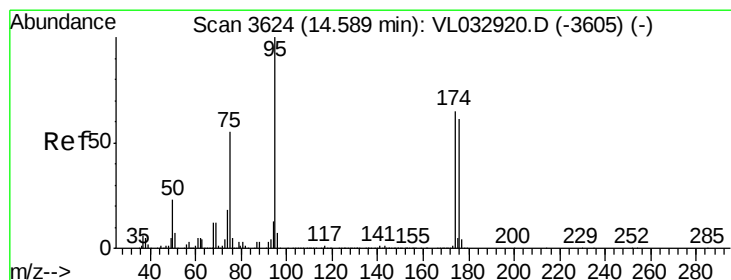
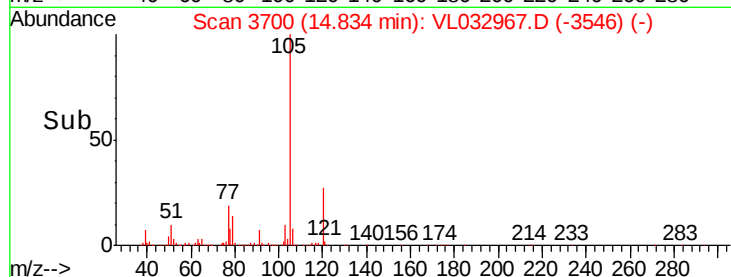
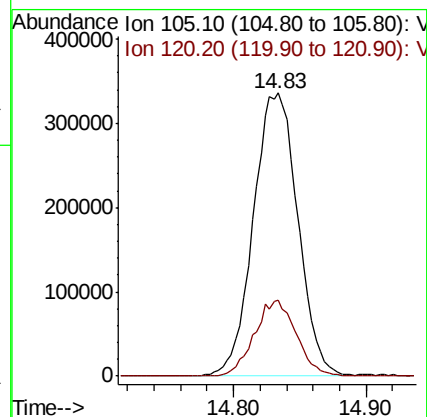
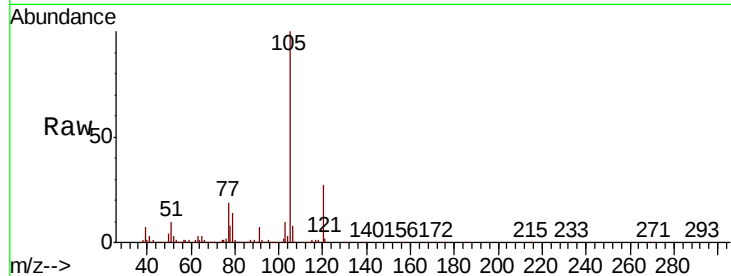
20.3

30.5

Manual Integrations
APPROVED

MMDadoda

12/13/2018 7:58:48 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.016 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032967.D

Acq: 11 Dec 2018 23:17

Tgt Ion: 95 Resp: 2497549

Ion Ratio Lower Upper

95 100

174 66.4

51.4

77.0

175 4.9

3.8

5.6

