

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033458.D
 Acq On : 26 Mar 2019 5:27
 Operator : SY/AP
 Sample : K1991-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:15 AM

Quant Time: Mar 26 07:29:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 07:29:53 2019
 QLast Update : Tue Mar 26 05:43:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	625240	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1436909	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1525030	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1206596	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	27451	0.301	ppbv	94
4) Chloromethane	3.17	50	22595	0.593	ppbv #	88
9) Propene	3.05	41	138671	4.587	ppbv #	68
11) Trichlorofluoromethane	4.00	101	28433	0.253	ppbv	95
13) Ethanol	3.65	45	50207	6.418	ppbv	72
15) Acetone	3.90	43	1933757	25.722	ppbv	99
17) tert-Butyl alcohol	4.38	59	15592m	1.128	ppbv	
20) Methylene Chloride	4.41	84	24315	0.762	ppbv	94
26) Hexane	5.78	57	59485	0.959	ppbv #	43
34) 2-Butanone	5.33	43	186360	2.159	ppbv	99
35) Carbon Tetrachloride	7.13	117	7950m	0.078	ppbv	
36) Benzene	7.00	78	20108	0.167	ppbv #	84
53) Toluene	9.94	91	460068	3.284	ppbv	98

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

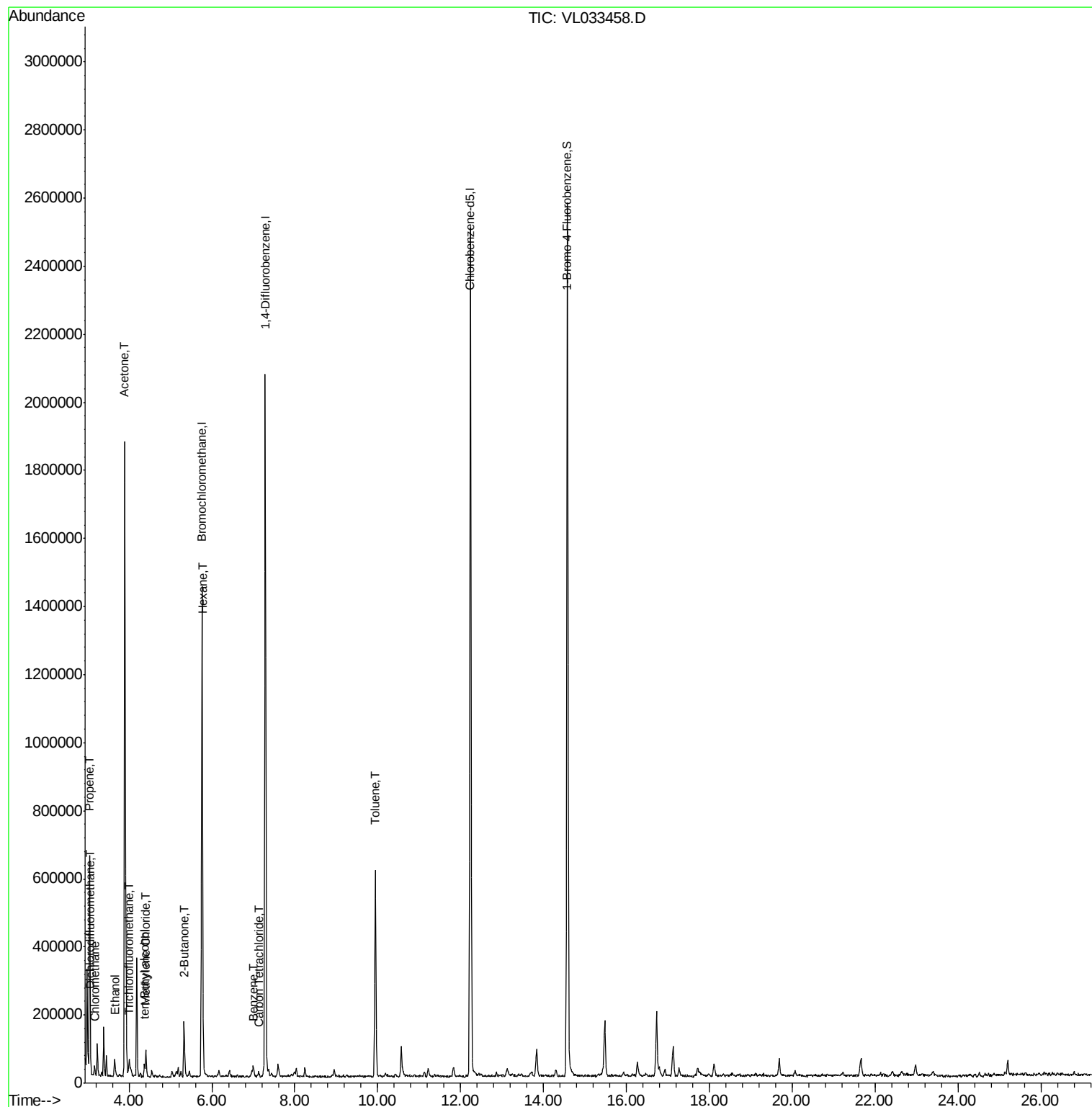
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032519\
Data File : VL033458.D
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Quant Time: Mar 26 07:29:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 05:43:39 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

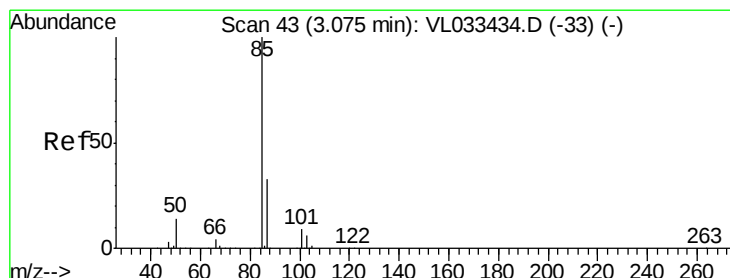
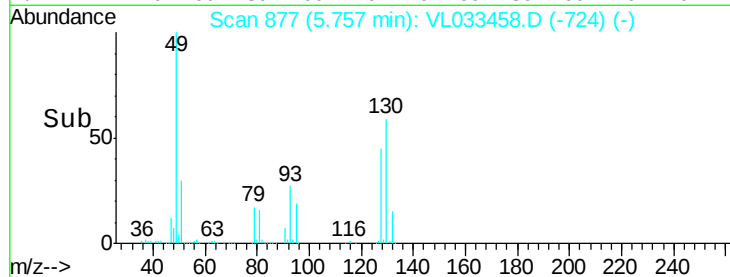
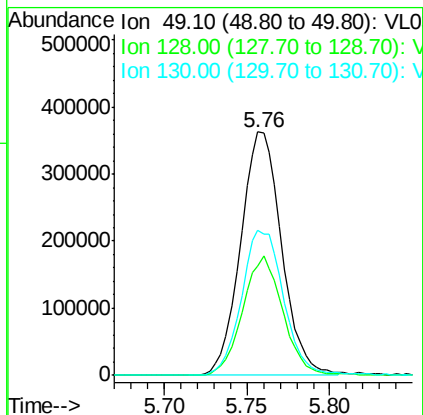
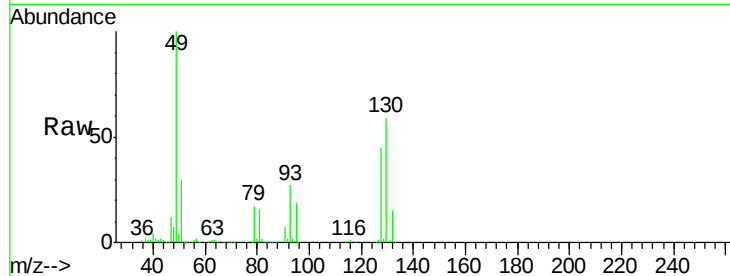
ClientSampled :

IA-5

Tot Ion:	49	Resp:	625240
Ion	Ratio	Lower	Upper
49	100		
128	48.4	24.0	72.0
130	61.8	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.301 ppbv

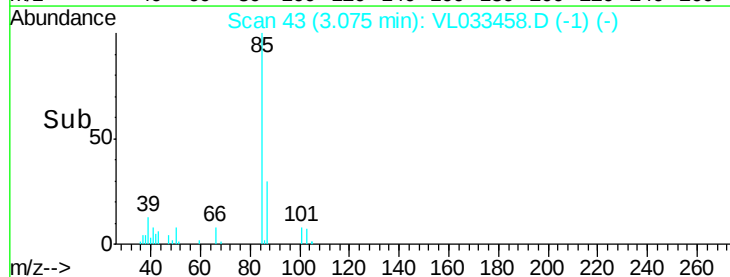
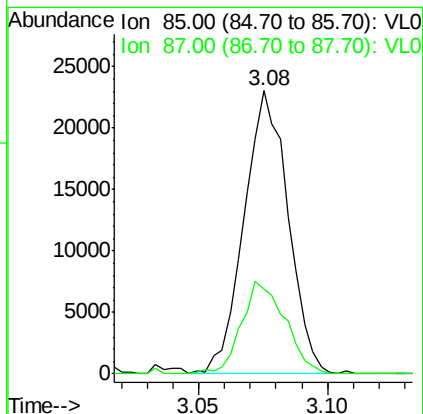
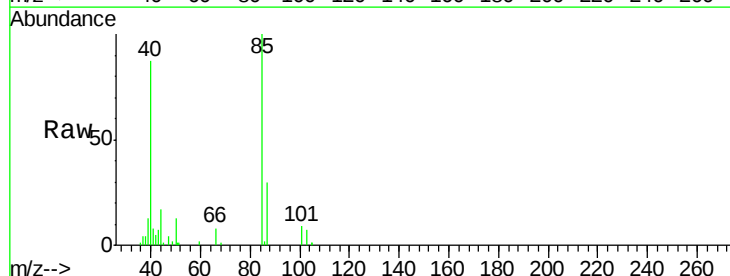
RT: 3.08 min Scan# 43

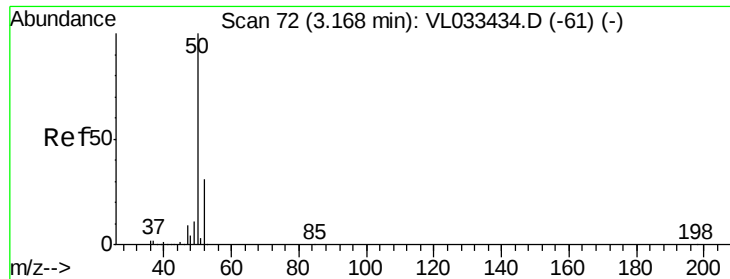
Delta R.T. -0.00 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Tgt Ion:	85	Resp:	27451
Ion	Ratio	Lower	Upper
85	100		
87	30.1	26.7	40.1





#4

Chloromethane

Concen: 0.593 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion: 50 Resp: 22595

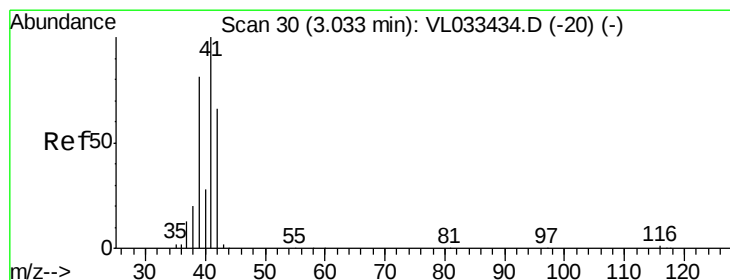
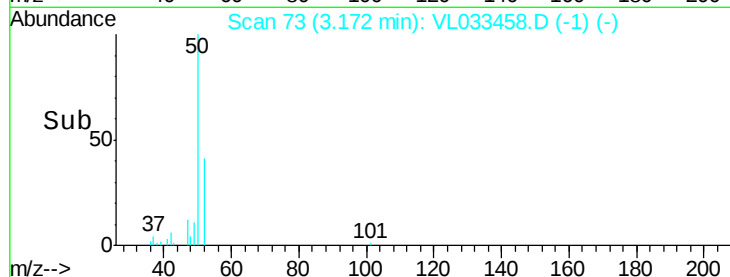
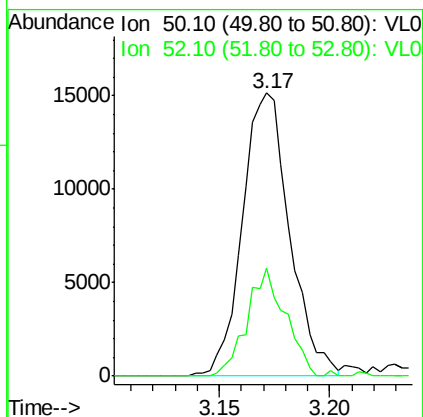
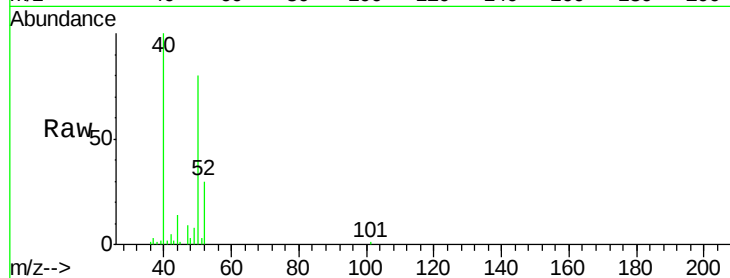
Ion Ratio Lower Upper

50 100

52 38.1 25.0 37.6#

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#9

Propene

Concen: 4.587 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033458.D

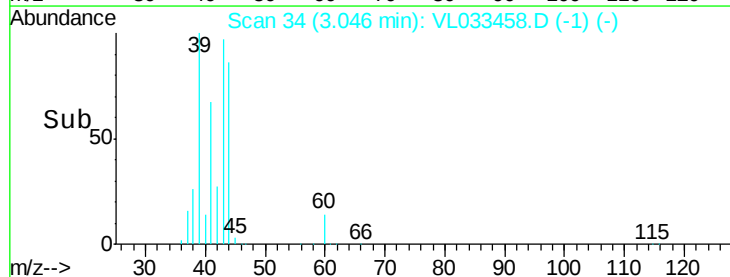
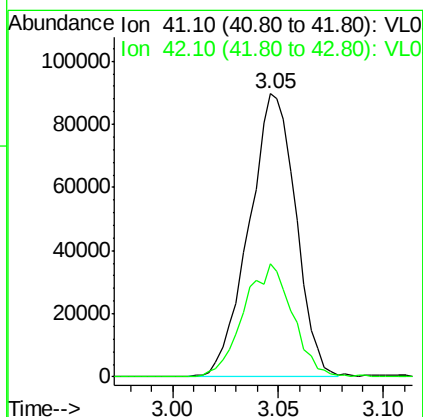
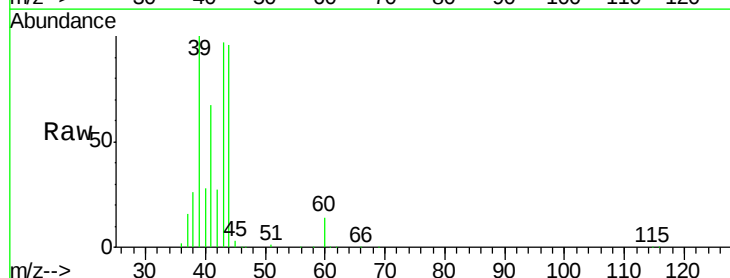
Acq: 26 Mar 2019 5:27

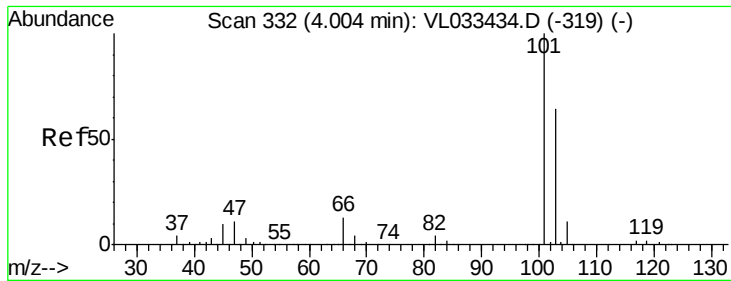
Tgt Ion: 41 Resp: 138671

Ion Ratio Lower Upper

41 100

42 41.9 53.9 80.9#





#11

Trichlorofluoromethane

Concen: 0.253 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion:101 Resp: 28433

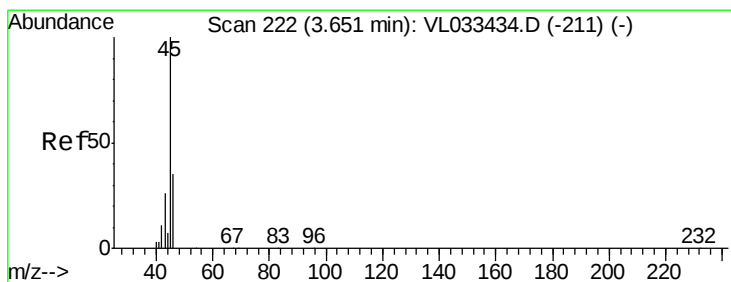
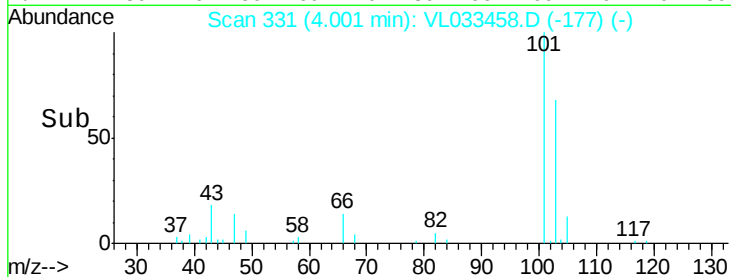
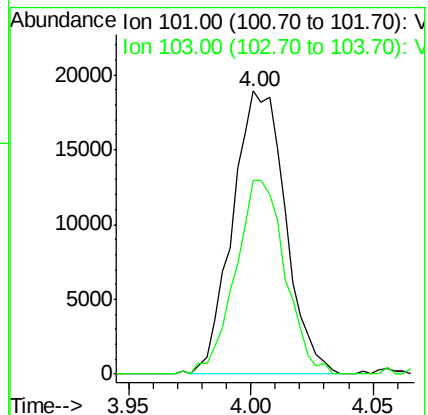
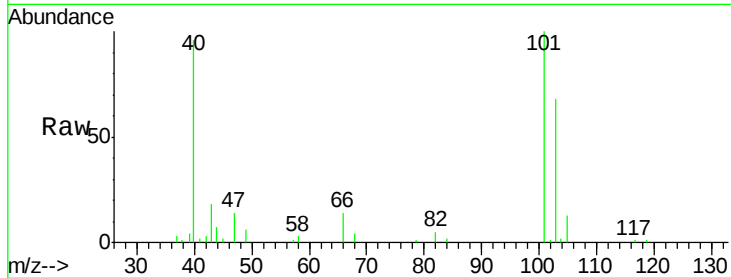
Ion Ratio Lower Upper

101 100

103 68.3 51.3 76.9

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#13

Ethanol

Concen: 6.418 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033458.D

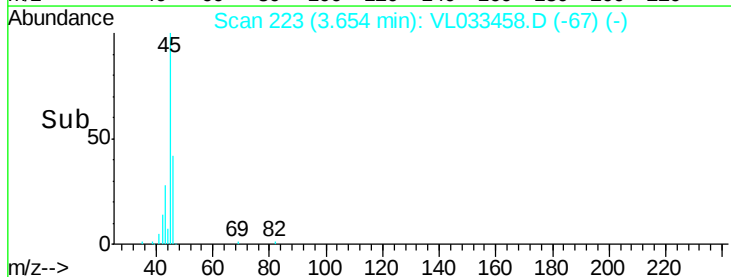
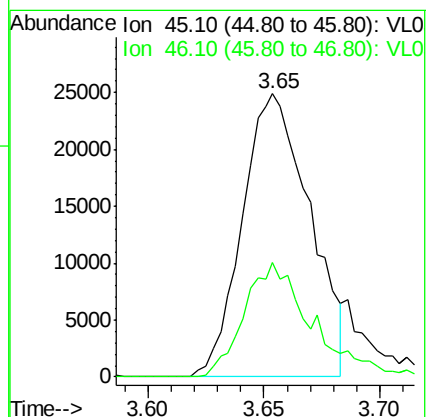
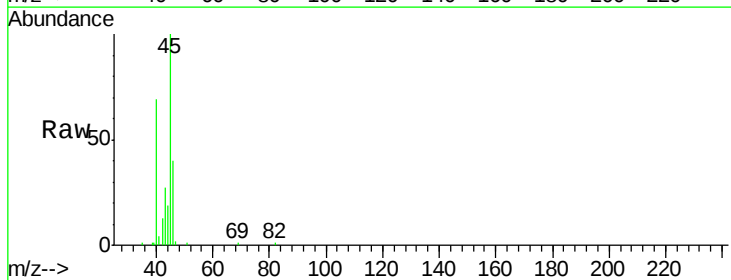
Acq: 26 Mar 2019 5:27

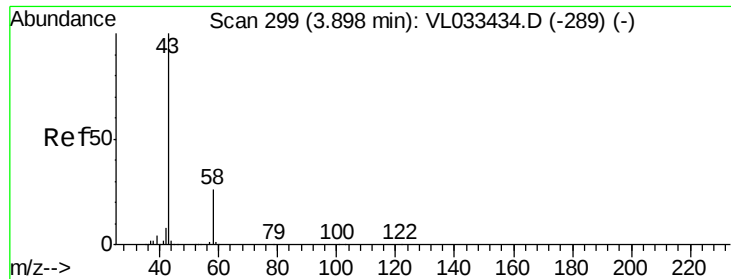
Tgt Ion: 45 Resp: 50207

Ion Ratio Lower Upper

45 100

46 41.5 25.4 101.8





#15

Acetone

Concen: 25.722 ppbv

RT: 3.90 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion: 43 Resp: 1933757

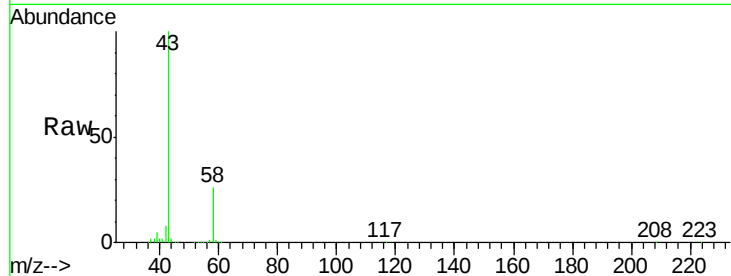
Ion Ratio Lower Upper

43 100

58 24.9 20.5 30.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

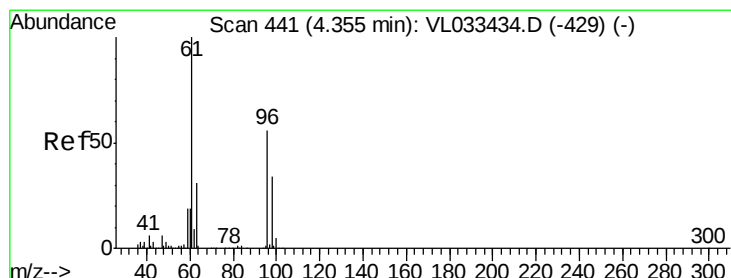
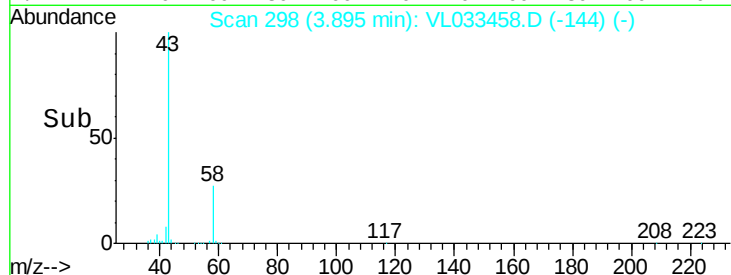
3.90

1000000

500000

0

Time-->



#17

tert-Butyl alcohol

Concen: 1.128 ppbv m

RT: 4.38 min Scan# 448

Delta R.T. 0.02 min

Lab File: VL033458.D

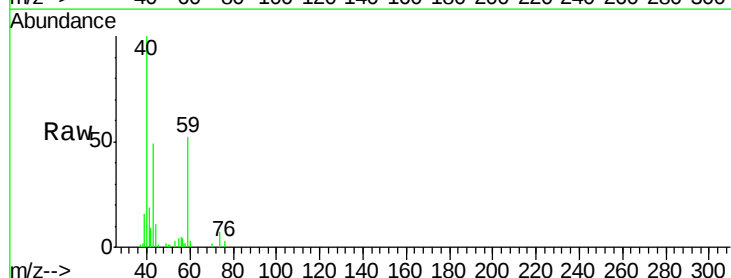
Acq: 26 Mar 2019 5:27

Tgt Ion: 59 Resp: 15592

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.38

10000

8000

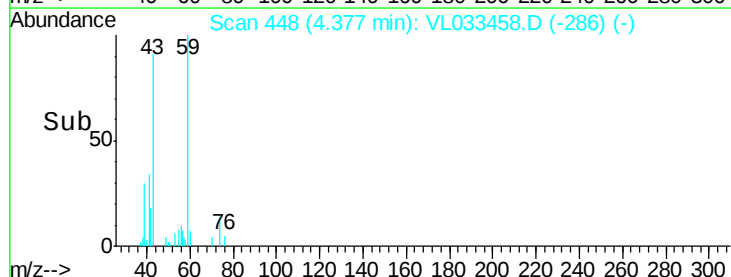
6000

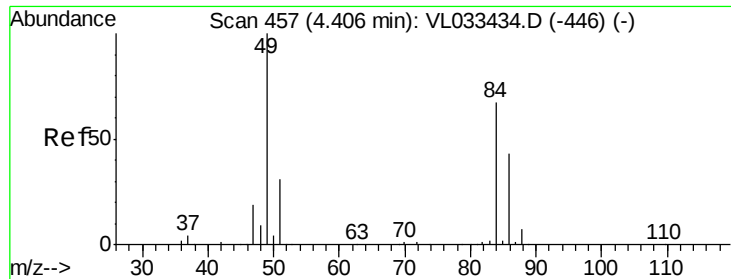
4000

2000

0

Time-->





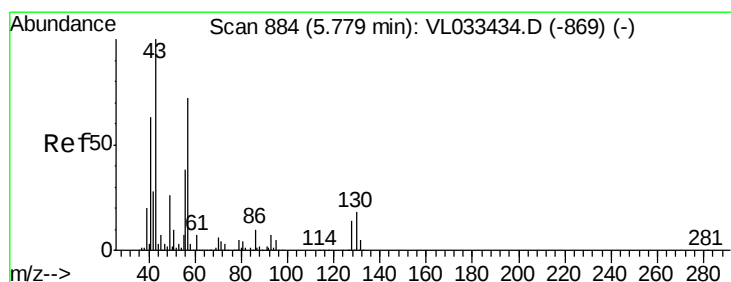
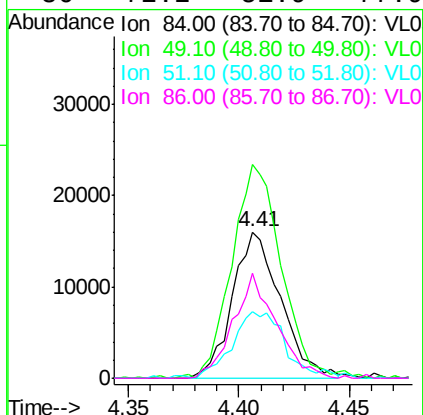
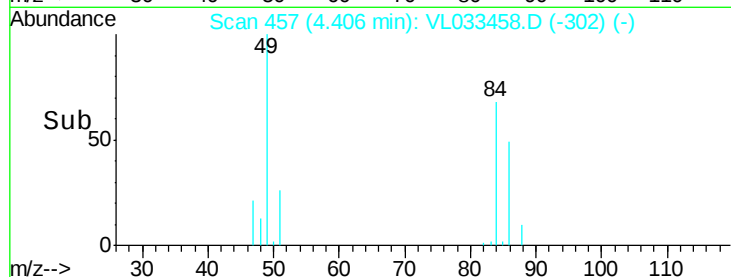
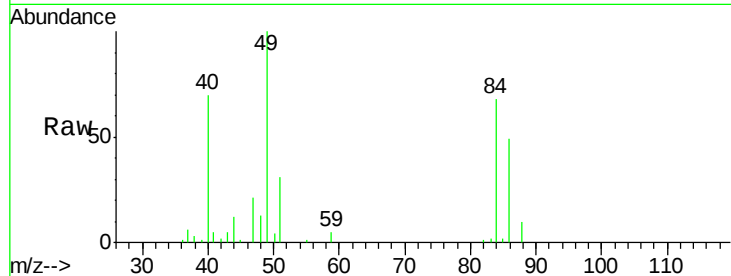
#20
Methvlene Chloride
Concen: 0.762 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033458.D
Acq: 26 Mar 2019 5:27

Instrument :
MSVOA_L
ClientSampleId :
IA-5

Tot Ion:	84	Resp:	24315
Ion Ratio	Lower	Upper	
84	100		
49	143.9	120.0	180.0
51	44.3	36.7	55.1
86	72.2	51.9	77.9

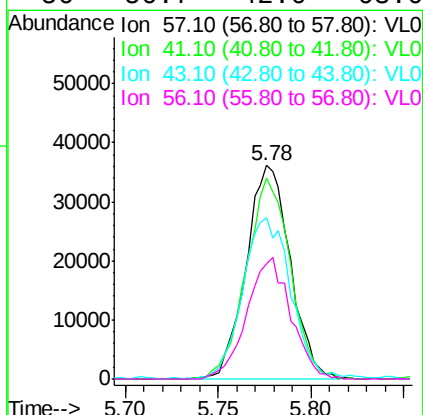
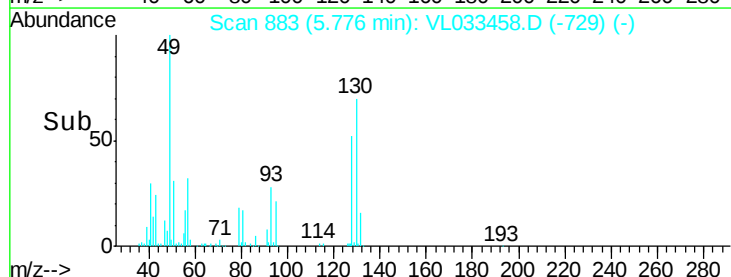
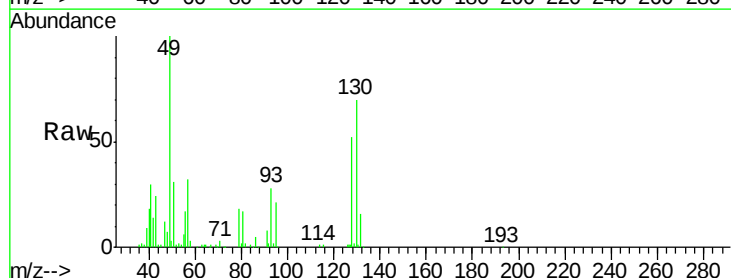
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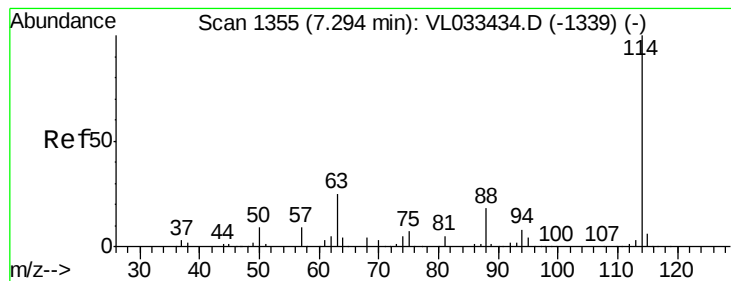
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#26
Hexane
Concen: 0.959 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033458.D
Acq: 26 Mar 2019 5:27

Tgt Ion:	57	Resp:	59485
Ion Ratio	Lower	Upper	
57	100		
41	94.7	70.7	106.1
43	83.6	182.6	274.0
56	56.7	42.0	63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

ClientSampled :

IA-5

Tot Ion:114 Resp: 1436909

Ion Ratio Lower Upper

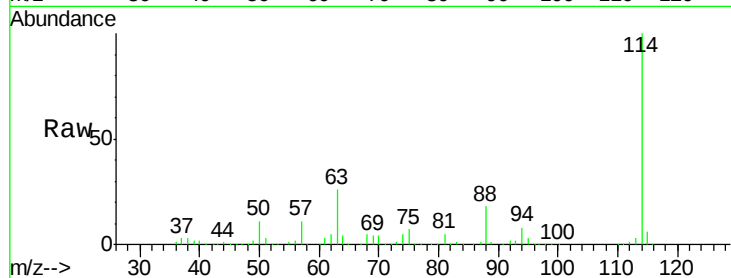
114 100

63 26.5 21.5 32.3

88 18.1 14.5 21.7

Manual Integrations
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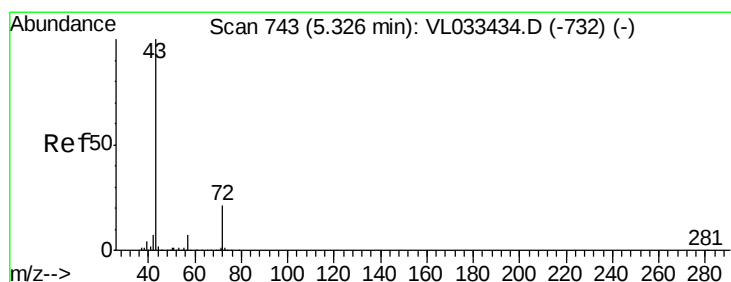
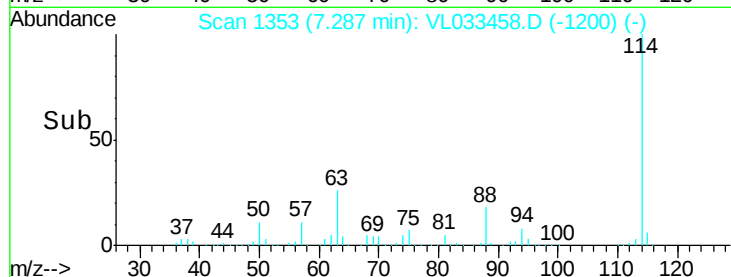
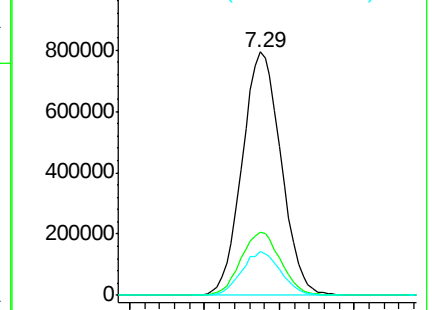
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.159 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033458.D

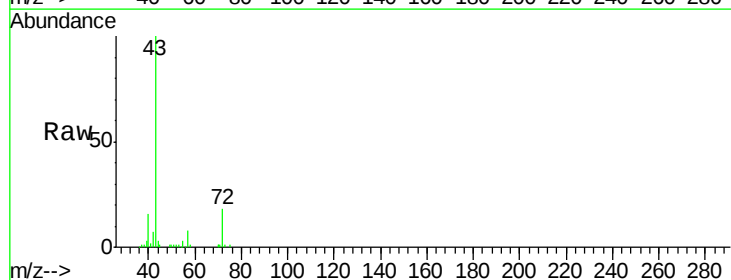
Acq: 26 Mar 2019 5:27

Tgt Ion: 43 Resp: 186360

Ion Ratio Lower Upper

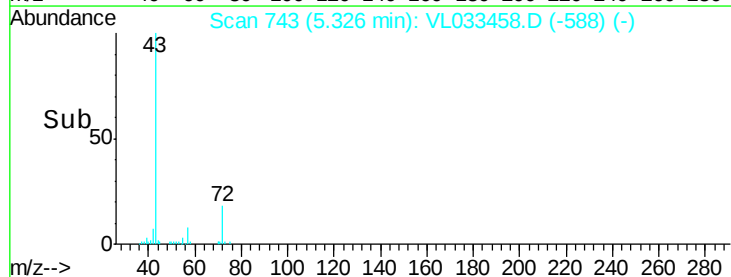
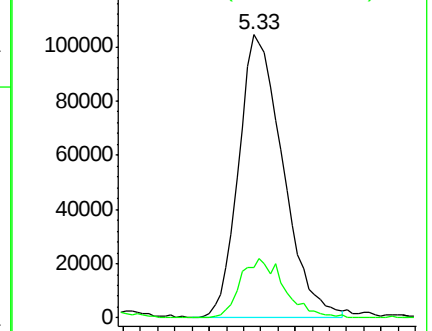
43 100

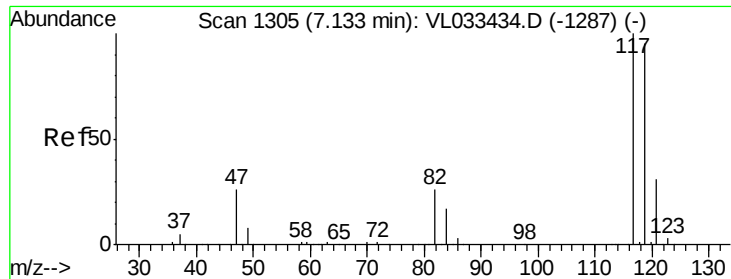
72 21.2 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

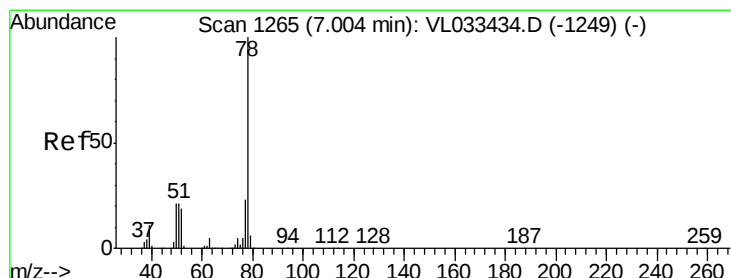
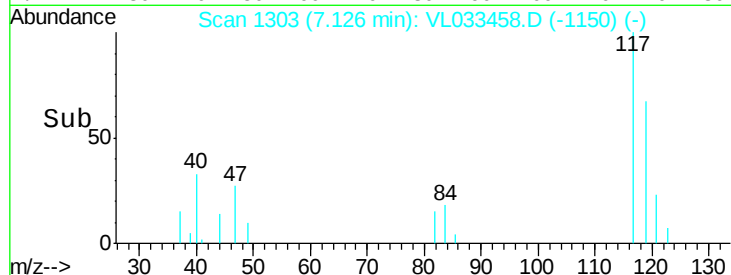
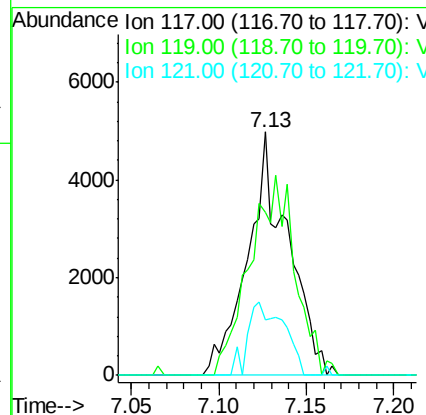
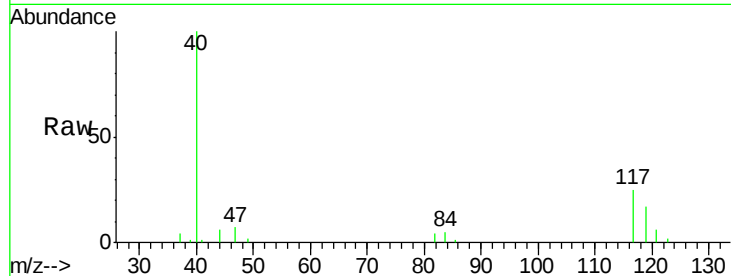
ClientSampleId :

IA-5

Tot Ion	Ratio	Lower	Upper
117	100		
119	67.2	75.8	113.8#
121	22.9	24.7	37.1#

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#36

Benzene

Concen: 0.167 ppbv

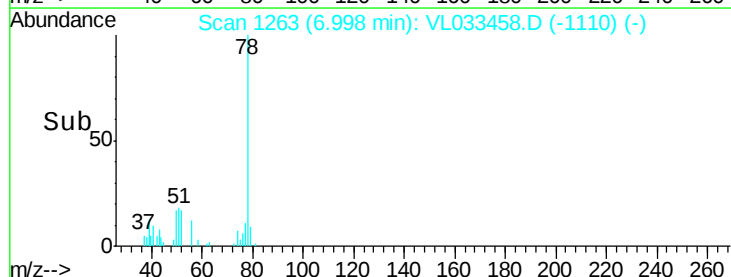
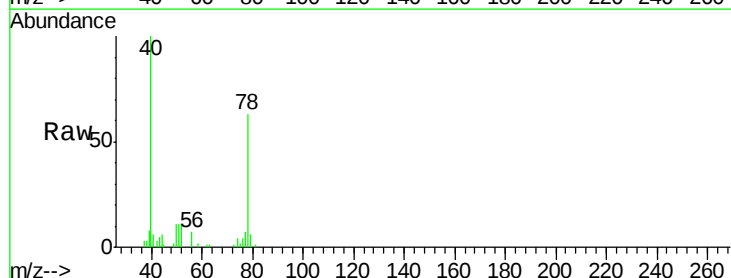
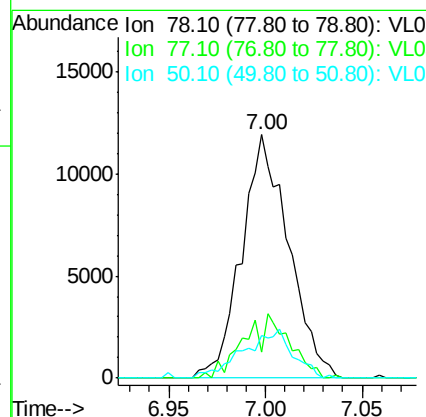
RT: 7.00 min Scan# 1263

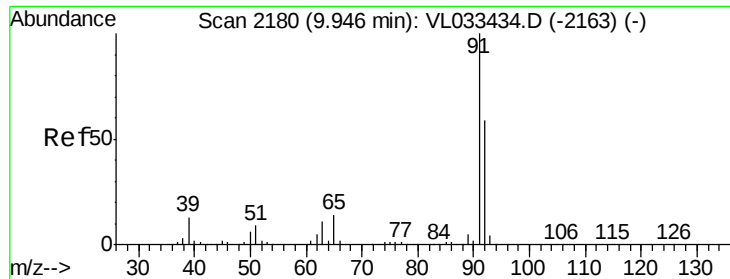
Delta R.T. -0.01 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	10.9	18.1	27.1#
50	17.4	16.7	25.1





#53

Toluene

Concen: 3.284 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

ClientSampled :

IA-5

Tot Ion: 91 Resp: 460068

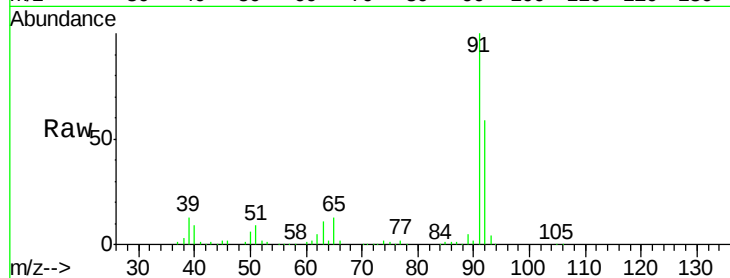
Ion Ratio Lower Upper

91 100

92 57.7 47.4 71.0

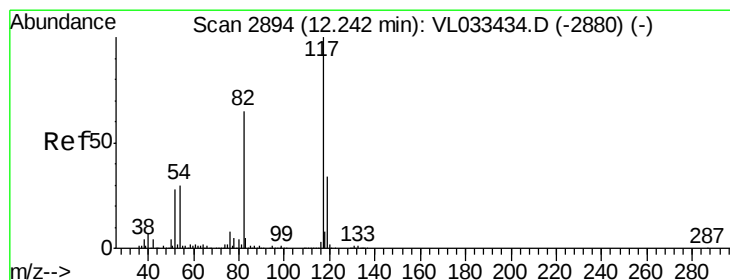
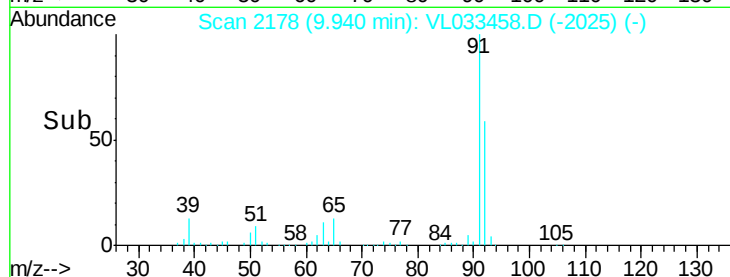
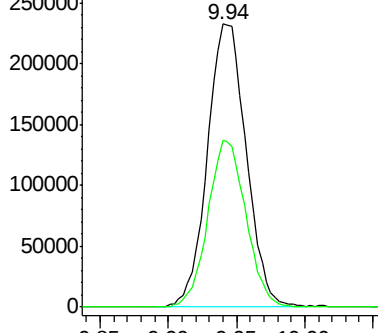
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:15 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

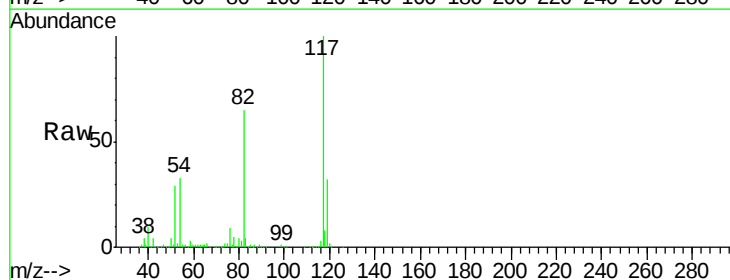
Tgt Ion: 117 Resp: 1525030

Ion Ratio Lower Upper

117 100

82 66.8 51.5 77.3

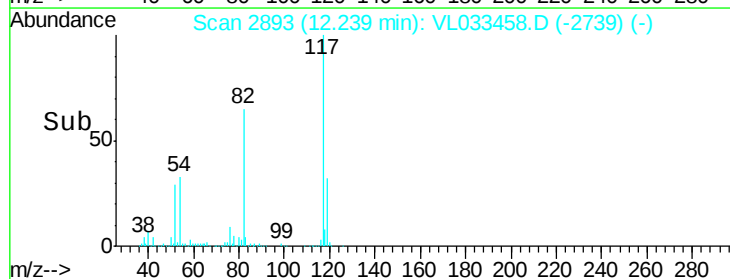
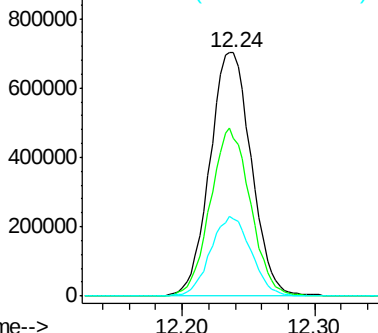
119 32.2 25.5 38.3

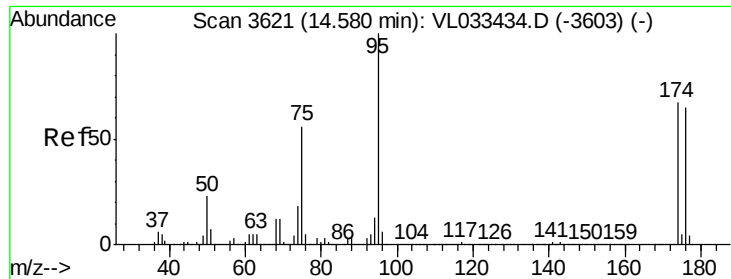


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.092 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033458.D

Acq: 26 Mar 2019 5:27

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion: 95 Resp: 1206596

Ion Ratio Lower Upper

95 100

174 65.8 52.9 79.3

175 4.8 3.8 5.6

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:23:15 AM

