

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032644.D
 Acq On : 17 Oct 2018 16:59
 Operator : SY/AP
 Sample : J5500-01DL 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 4:36:38 PM

Quant Time: Oct 19 03:13:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 08:55:11 2018
 QLast Update : Wed Oct 17 08:55:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1091830	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2583692	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2573970	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2029381	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.18	50	8055m	0.16	ppbv	
9) Propene	3.06	41	153698m	4.59	ppbv	
10) Heptane	8.27	43	571793	4.56	ppbv	99
13) Ethanol	3.68	45	17967m	1.73	ppbv	
26) Hexane	5.80	57	1005883	9.71	ppbv #	43
29) Chloroform	5.86	83	102770	0.57	ppbv	86
30) Cyclohexane	7.27	84	1346670	16.49	ppbv	99
35) Carbon Tetrachloride	7.16	117	24498m	0.12	ppbv	
36) Benzene	7.03	78	229448	1.10	ppbv	99
52) Tetrachloroethene	11.40	164	21814m	0.32	ppbv	
53) Toluene	9.97	91	3299048	13.82	ppbv	100
58) Ethyl Benzene	12.89	91	1046515	3.62	ppbv	96
59) m/p-Xylene	13.14	91	2331189	9.03	ppbv	99
60) o-Xylene	13.87	91	743411	2.89	ppbv	98
62) Isopropylbenzene	14.84	105	40985m	0.11	ppbv	
64) n-propylbenzene	15.74	120	21210m	0.23	ppbv	
72) 4-Ethyltoluene	16.02	105	187827	0.68	ppbv	98
73) 1,3,5-Trimethylbenzene	16.18	105	101233	0.37	ppbv	90
74) 1,2,4-Trimethylbenzene	16.95	105	305147	1.00	ppbv #	78

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

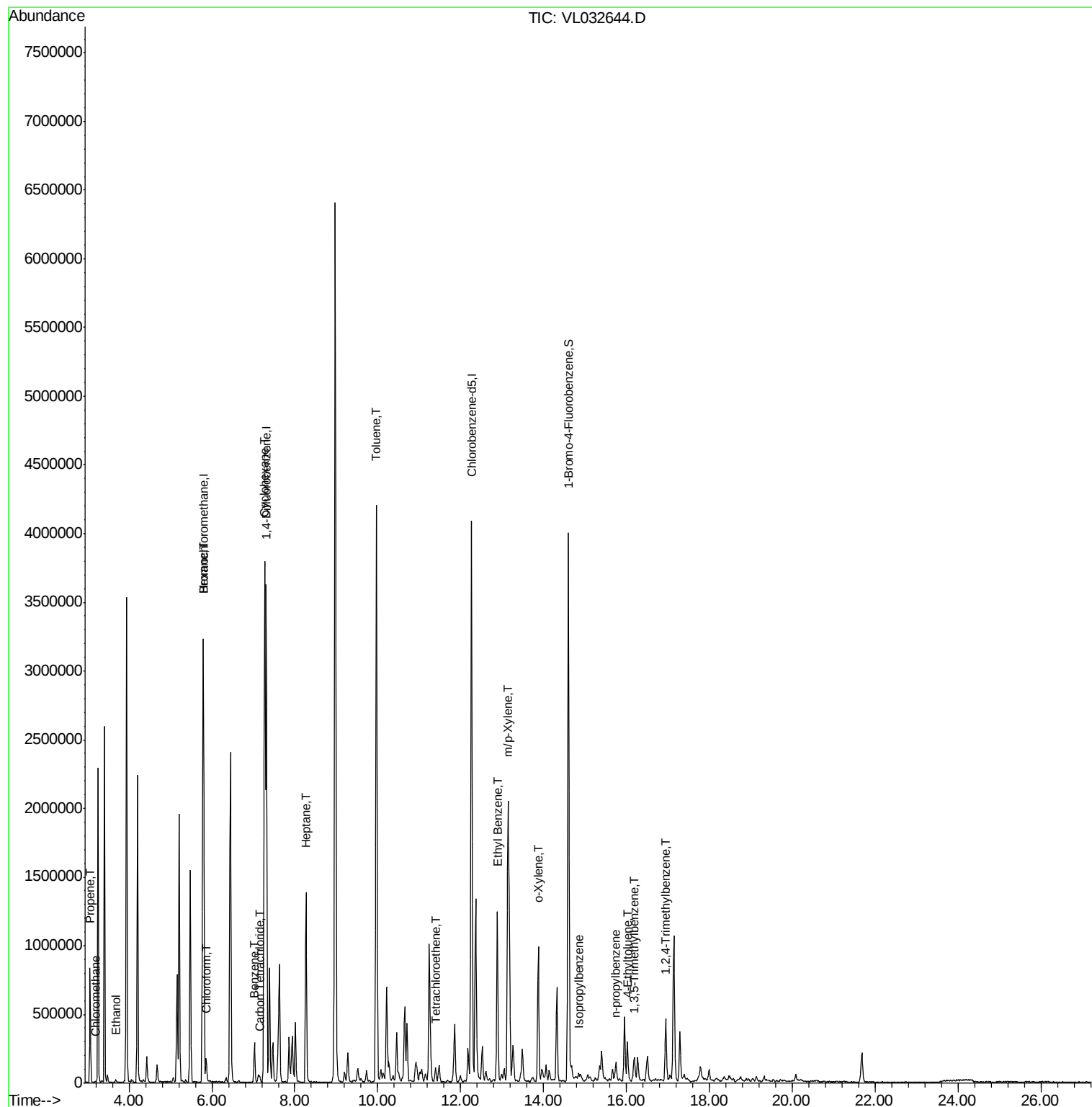
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
Data File : VL032644.D
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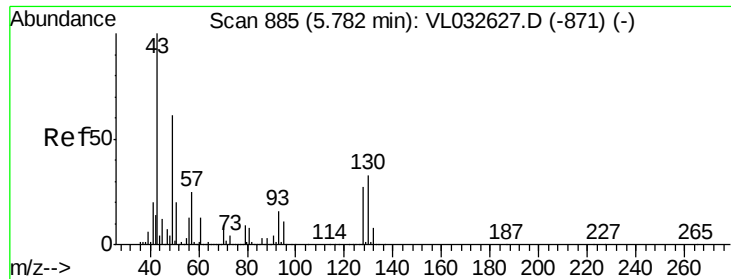
Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

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10/19/2018 4:36:38 PM

Quant Time: Oct 19 03:13:18 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tgt Ion: 49 Resp: 1091830

Ion Ratio Lower Upper

49 100

128 45.6 22.3 66.8

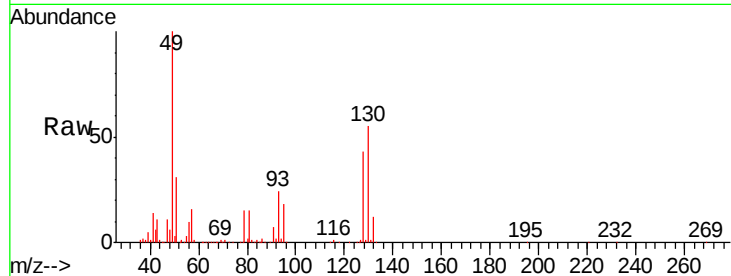
130 58.1 28.4 85.3

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

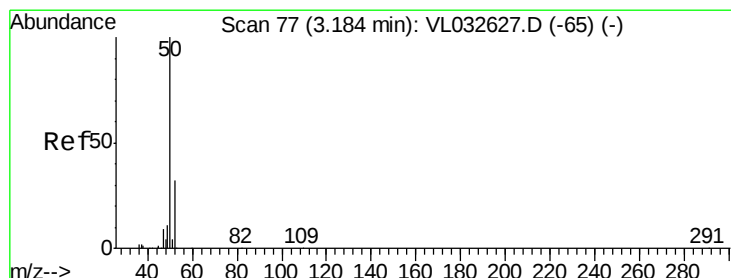
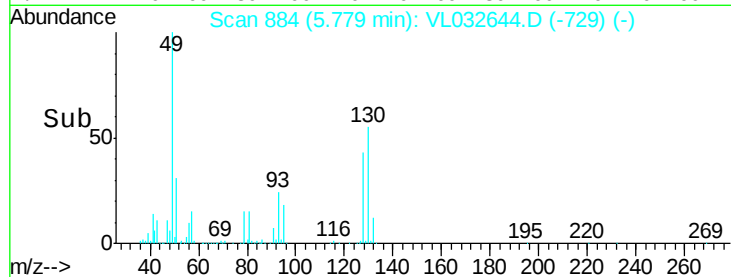
200000

0

5.78

5.70 5.75 5.80 5.85

Time-->



#4

Chloromethane

Concen: 0.16 ppbv m

RT: 3.18 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL032644.D

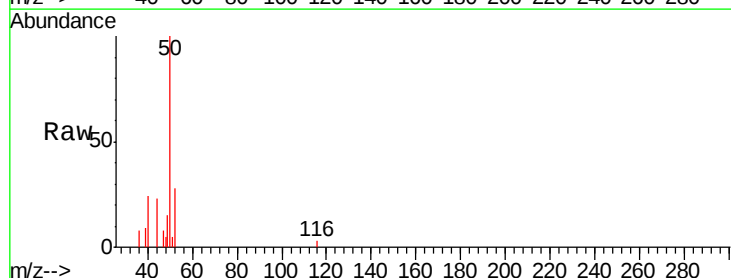
Acq: 17 Oct 2018 16:59

Tgt Ion: 50 Resp: 8055

Ion Ratio Lower Upper

50 100

52 28.0 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

10000

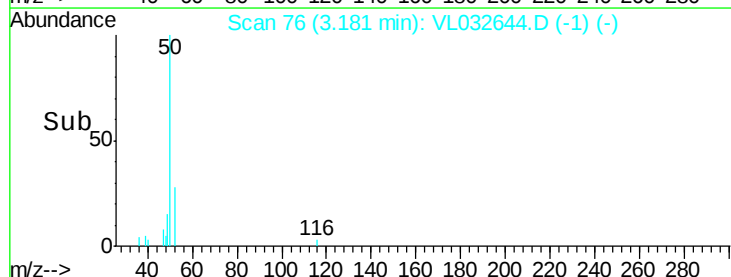
5000

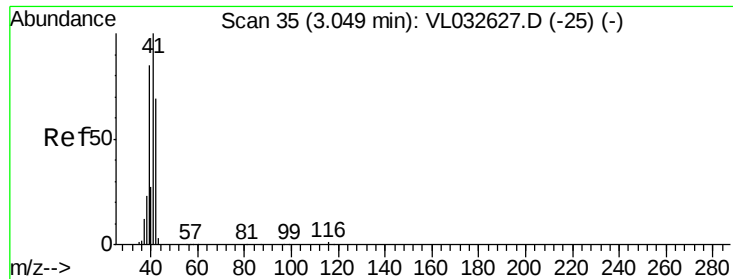
0

3.18

3.15 3.20

Time-->





#9

Propene

Concen: 4.59 ppbv m

RT: 3.06 min Scan# 39

Delta R.T. 0.01 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tgt Ion: 41 Resp: 153698

Ion Ratio Lower Upper

41 100

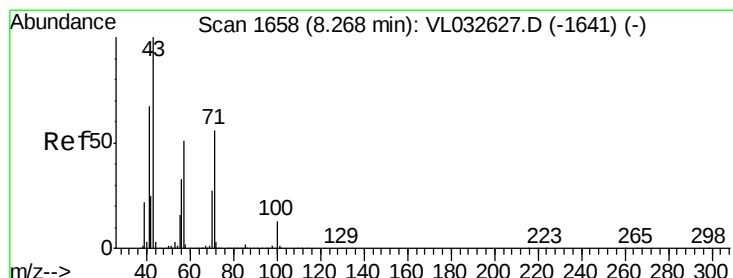
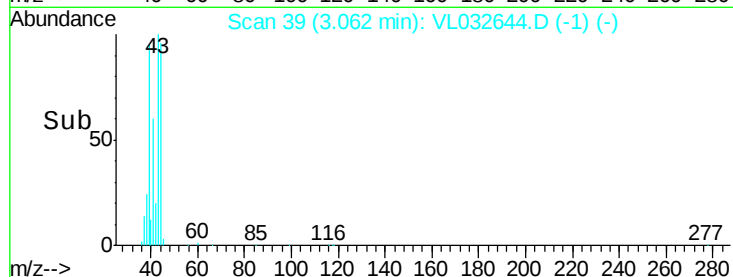
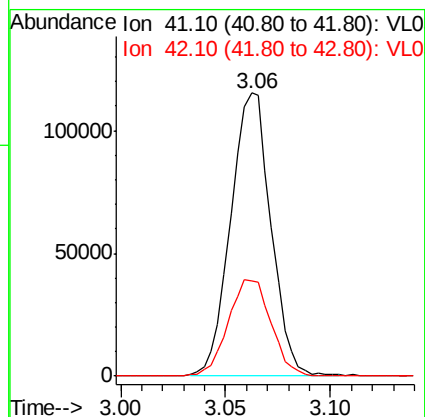
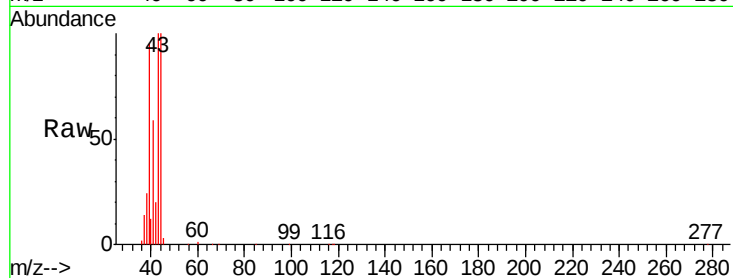
42 269.7 55.4 83.0#

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#10

Heptane

Concen: 4.56 ppbv

RT: 8.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VL032644.D

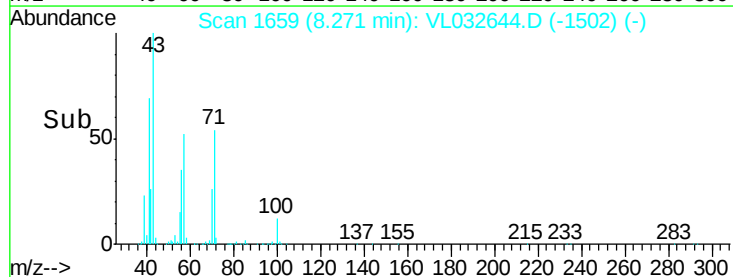
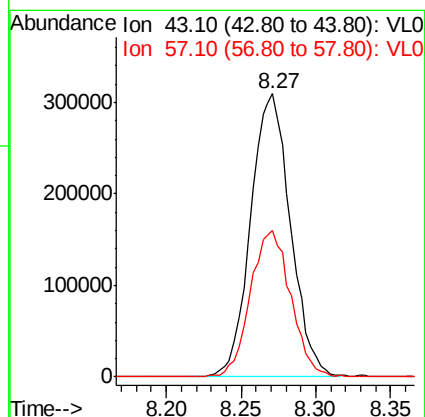
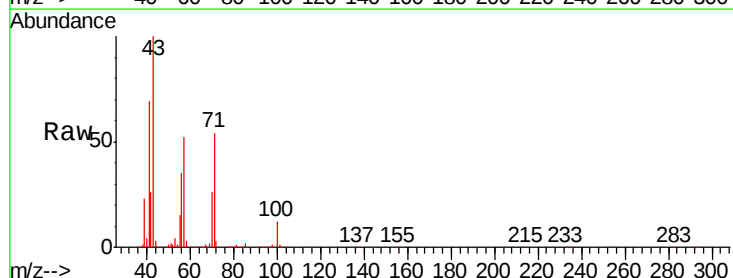
Acq: 17 Oct 2018 16:59

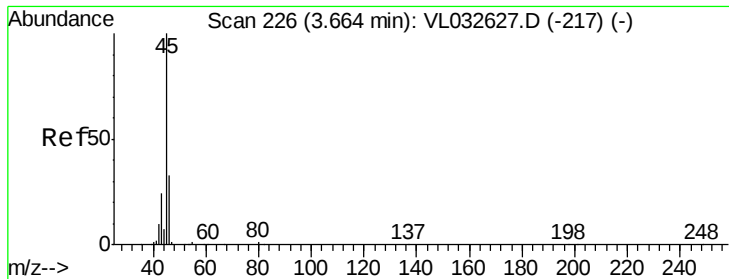
Tgt Ion: 43 Resp: 571793

Ion Ratio Lower Upper

43 100

57 52.5 41.5 62.3





#13

Ethanol

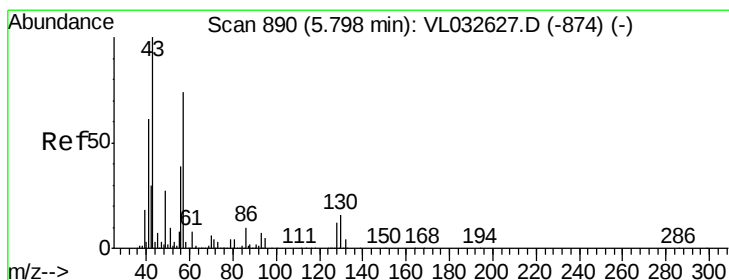
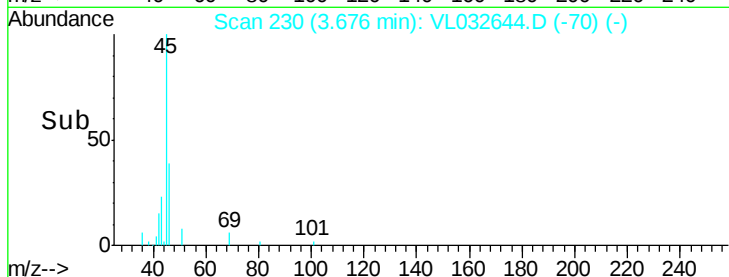
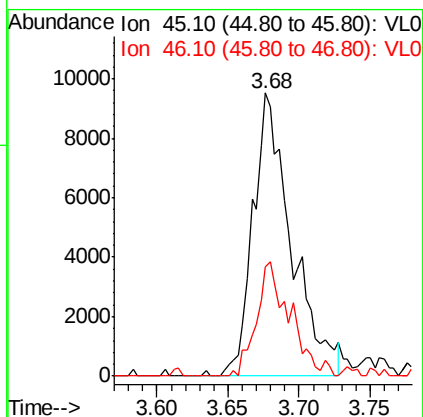
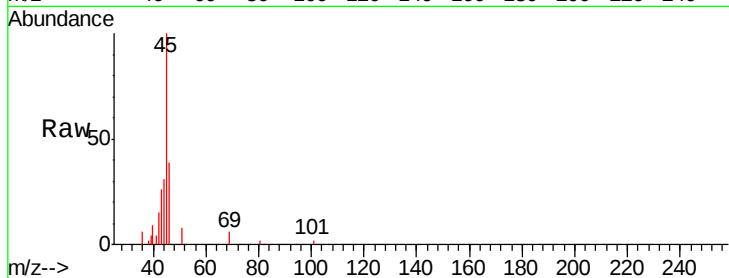
Concen: 1.73 ppbv m
RT: 3.68 min Scan# 230
Delta R.T. 0.01 min
Lab File: VL032644.D
Acq: 17 Oct 2018 16:59

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tgt Ion: 45 Resp: 17967
Ion Ratio Lower Upper
45 100
46 38.2 15.4 61.8

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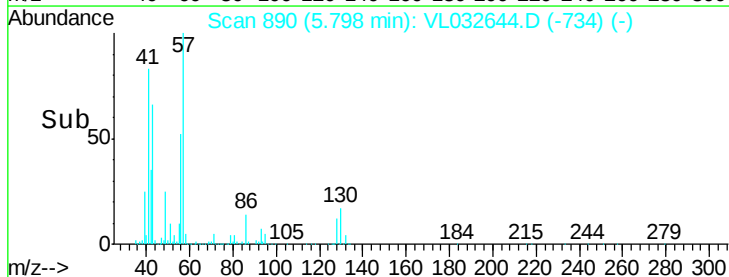
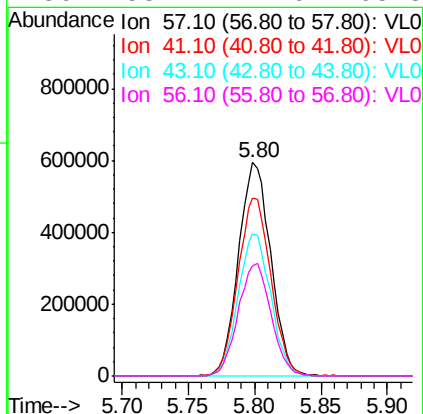
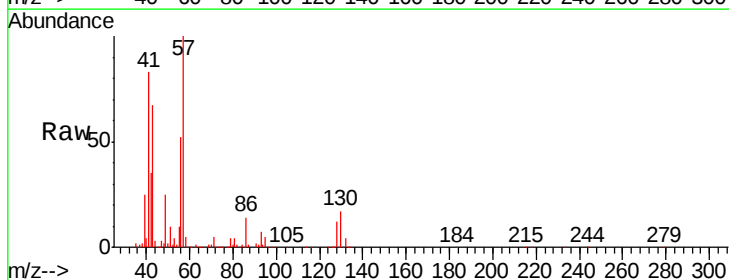


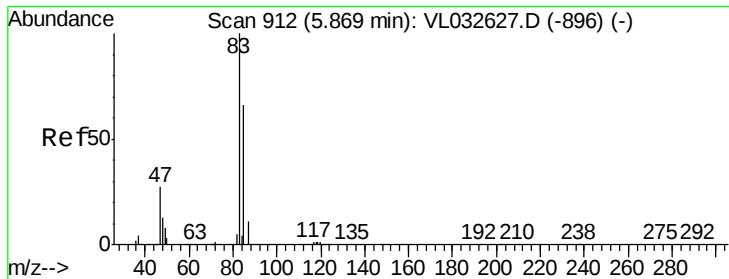
#26

Hexane

Concen: 9.71 ppbv
RT: 5.80 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032644.D
Acq: 17 Oct 2018 16:59

Tgt Ion: 57 Resp: 1005883
Ion Ratio Lower Upper
57 100
41 85.6 67.4 101.0
43 67.3 171.9 257.9#
56 53.7 42.6 63.8





#29

Chloroform

Concen: 0.57 ppbv

RT: 5.86 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tgt Ion: 83 Resp: 102770

Ion Ratio Lower Upper

83 100

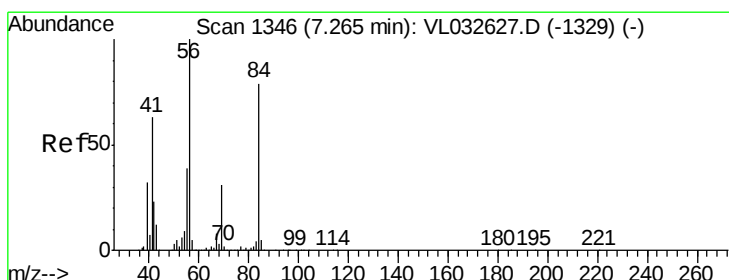
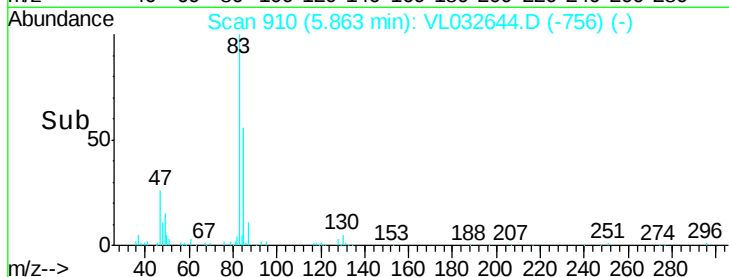
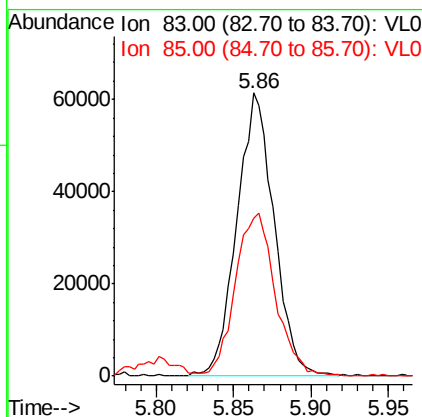
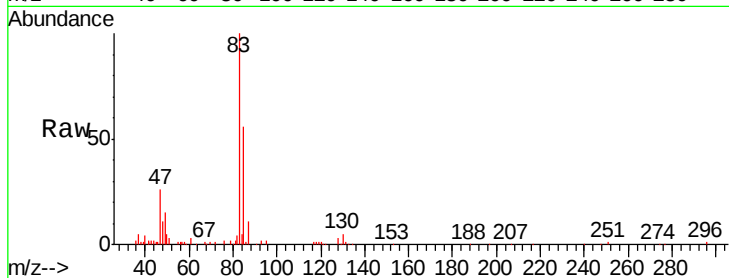
85 55.0 53.0 79.6

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#30

Cyclohexane

Concen: 16.49 ppbv

RT: 7.27 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

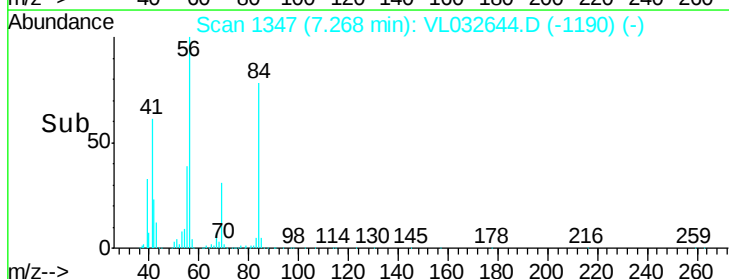
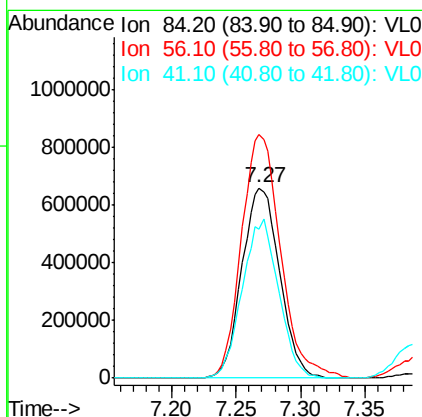
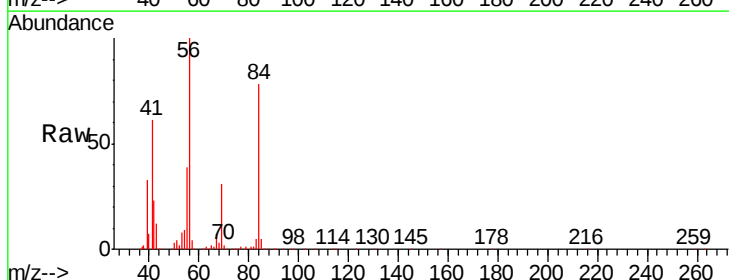
Tgt Ion: 84 Resp: 1346670

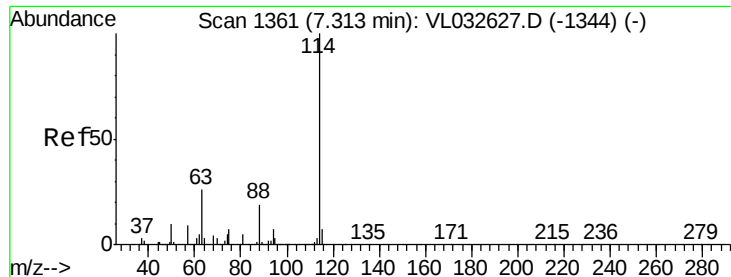
Ion Ratio Lower Upper

84 100

56 133.2 108.3 162.5

41 80.3 64.8 97.2





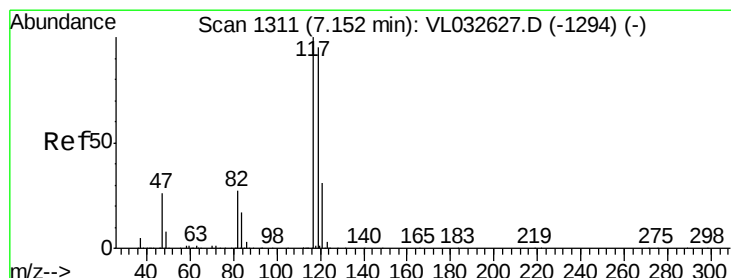
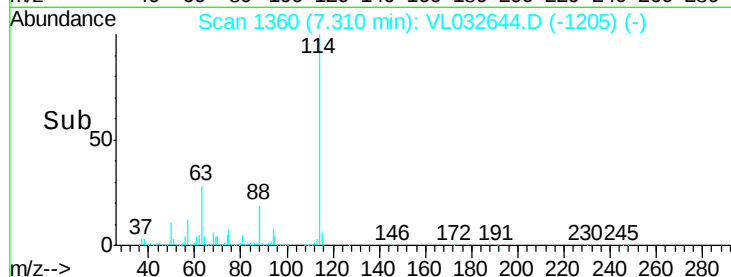
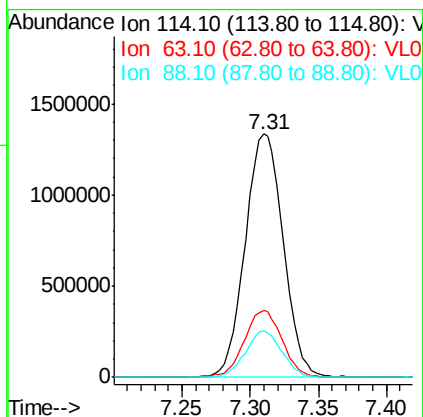
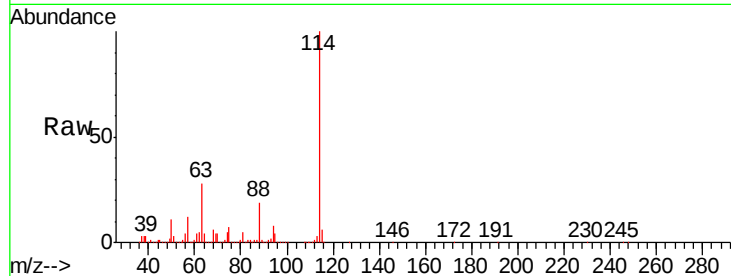
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VL032644.D
 Acq: 17 Oct 2018 16:59

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL

Tgt Ion:114 Resp: 2583692
 Ion Ratio Lower Upper
 114 100
 63 27.6 21.7 32.5
 88 18.4 14.9 22.3

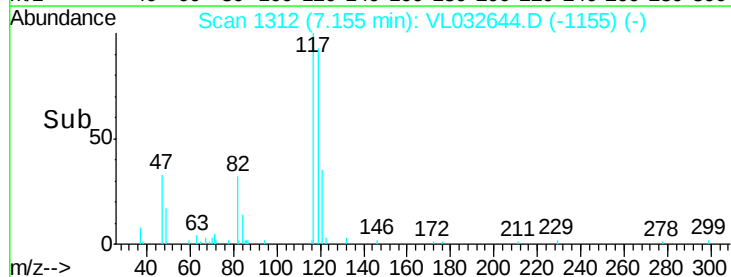
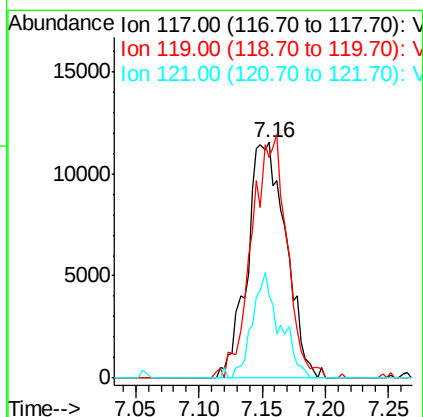
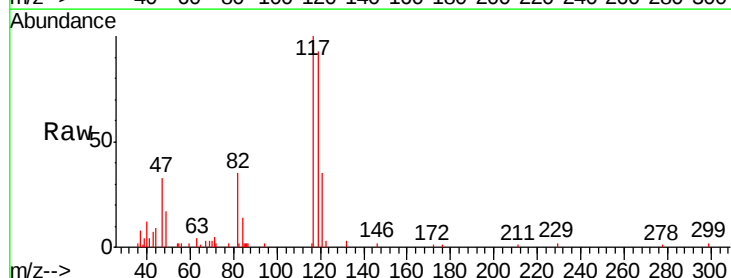
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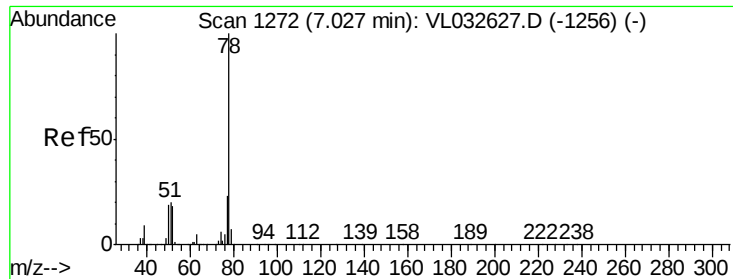
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#35
 Carbon Tetrachloride
 Concen: 0.12 ppbv m
 RT: 7.16 min Scan# 1312
 Delta R.T. 0.00 min
 Lab File: VL032644.D
 Acq: 17 Oct 2018 16:59

Tgt Ion:117 Resp: 24498
 Ion Ratio Lower Upper
 117 100
 119 93.3 75.7 113.5
 121 35.1 24.7 37.1





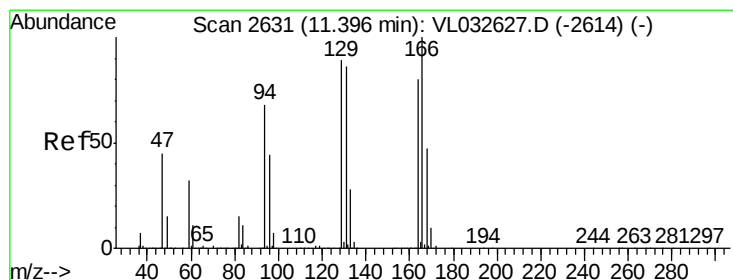
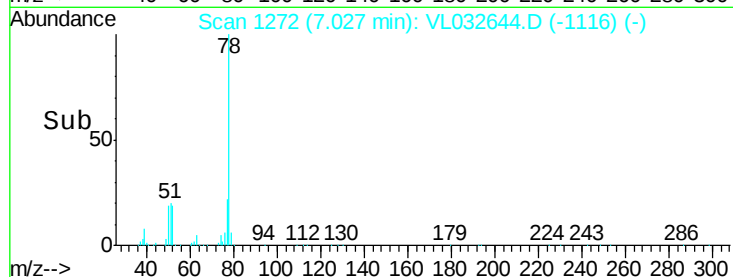
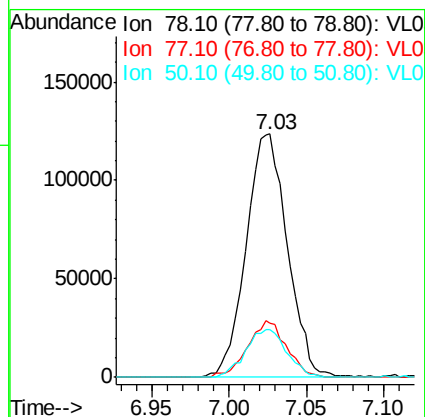
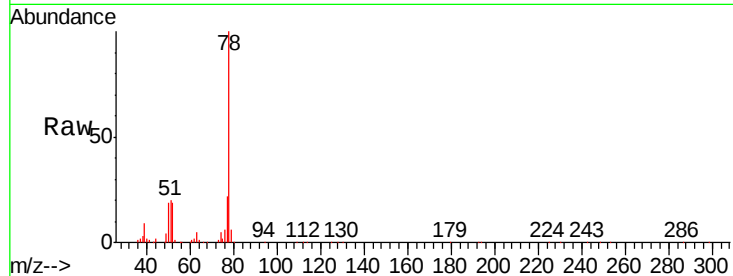
#36
Benzene
Concen: 1.10 ppbv
RT: 7.03 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VL032644.D
Acq: 17 Oct 2018 16:59

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.1	27.1
50	19.3	15.1	22.7

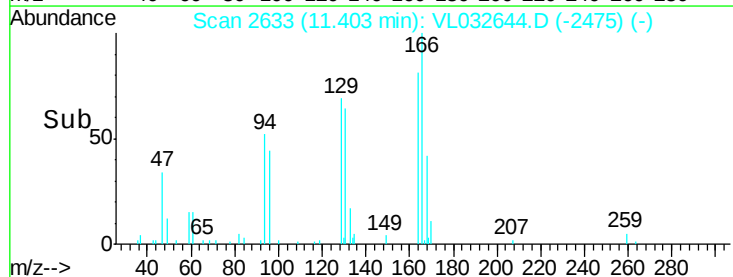
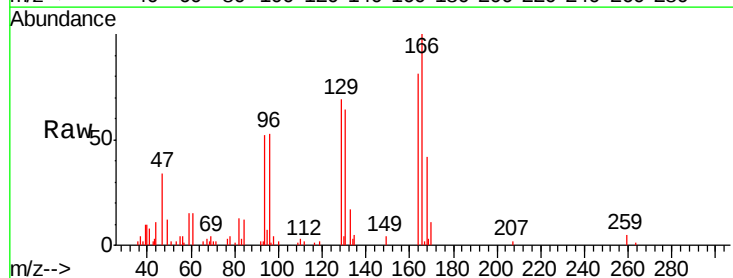
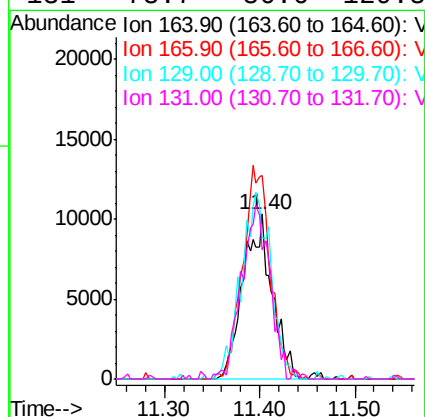
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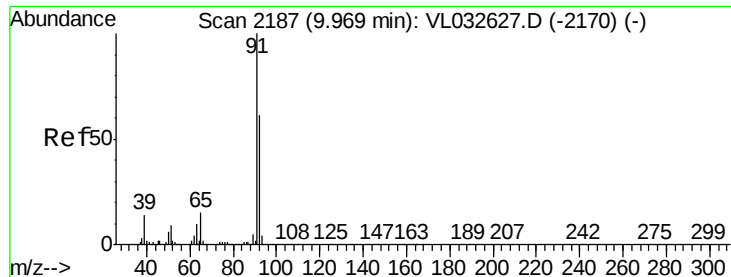
MMDadoda
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#52
Tetrachloroethene
Concen: 0.32 ppbv m
RT: 11.40 min Scan# 2633
Delta R.T. 0.01 min
Lab File: VL032644.D
Acq: 17 Oct 2018 16:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.5	150.7
129	85.4	90.0	135.0#
131	78.7	86.6	129.8#





#53

Toluene

Concen: 13.82 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tgt Ion: 91 Resp: 3299048

Ion Ratio Lower Upper

91 100

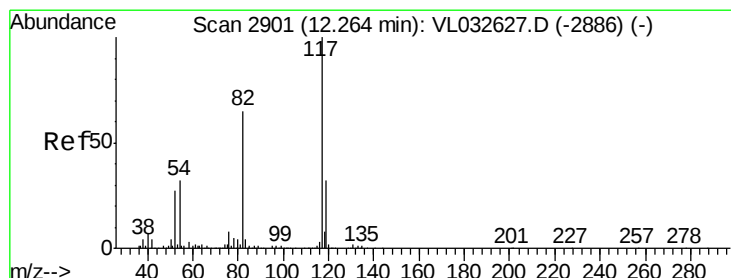
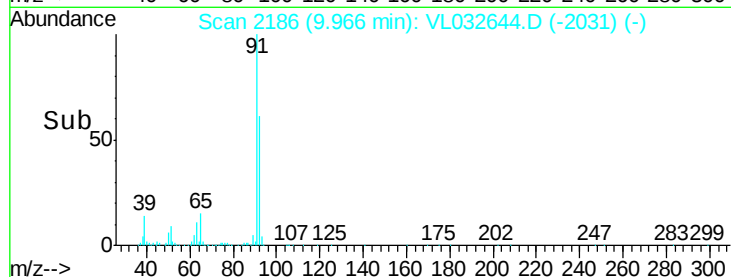
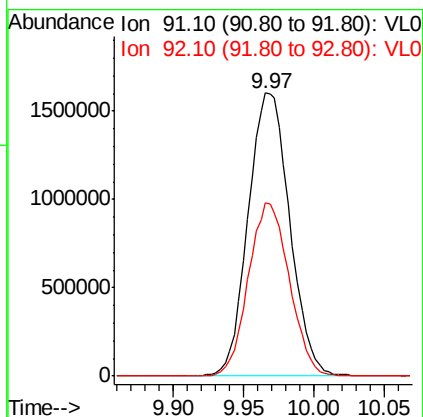
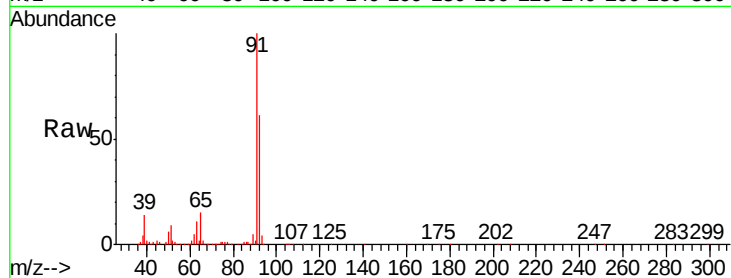
92 60.4 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

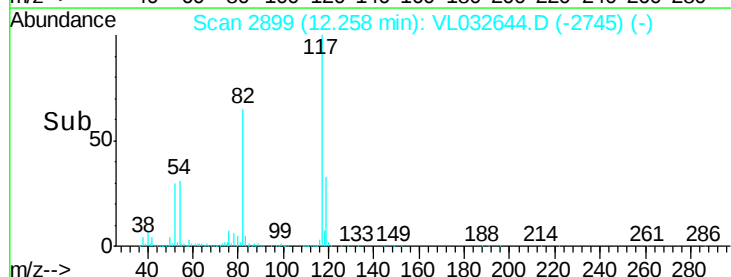
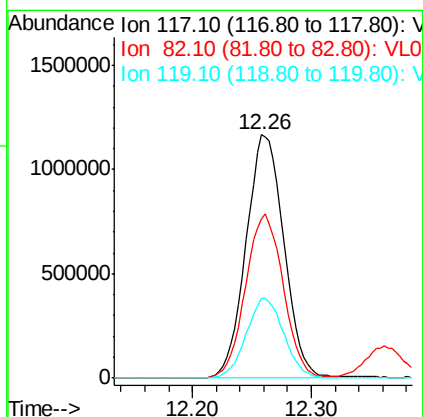
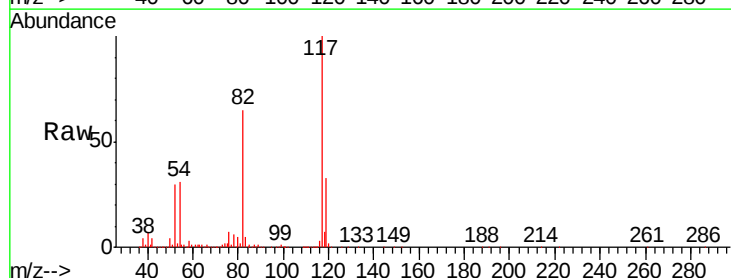
Tgt Ion: 117 Resp: 2573970

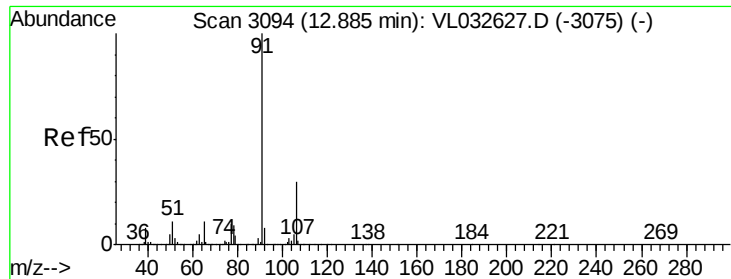
Ion Ratio Lower Upper

117 100

82 67.0 52.7 79.1

119 32.9 26.7 40.1





#58

Ethyl Benzene

Concen: 3.62 ppbv

RT: 12.89 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tgt Ion: 91 Resp: 1046515

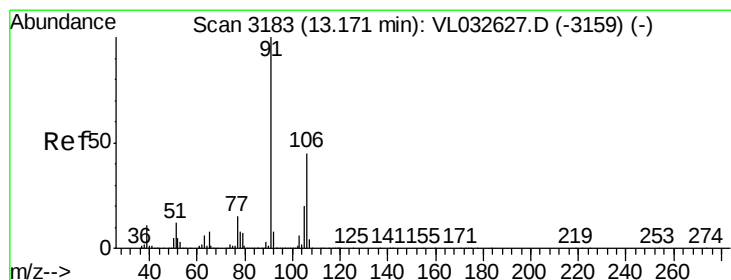
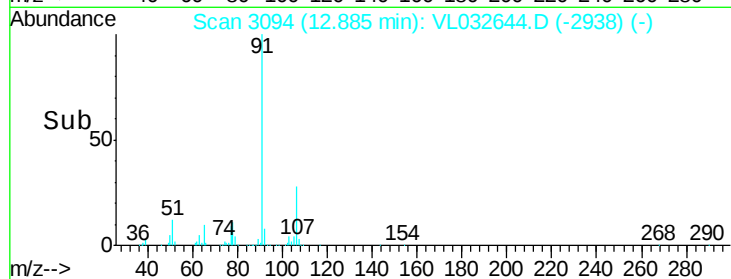
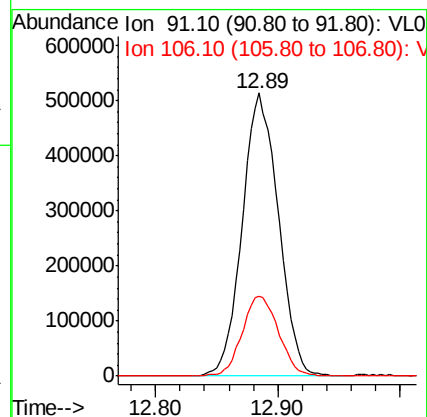
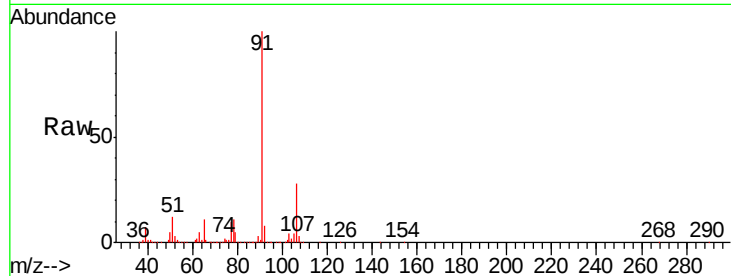
Ion Ratio Lower Upper

91 100

106 28.0 24.2 36.2

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#59

m/p-Xylene

Concen: 9.03 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. -0.03 min

Lab File: VL032644.D

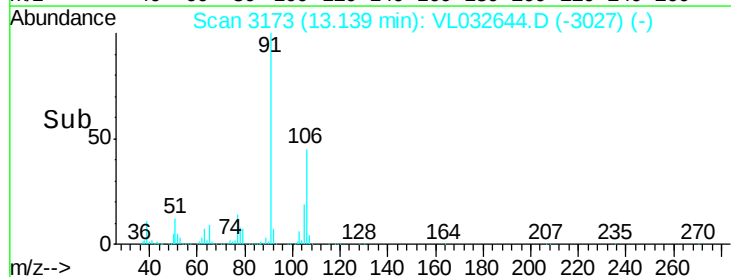
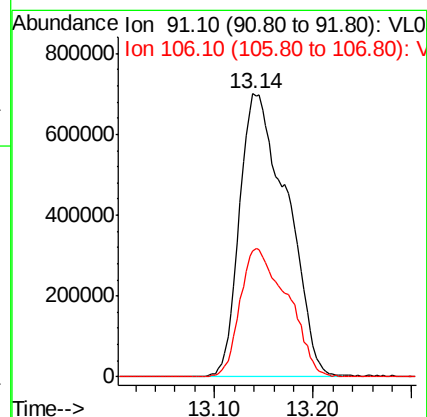
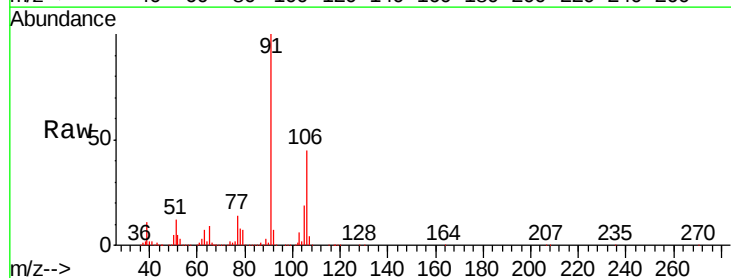
Acq: 17 Oct 2018 16:59

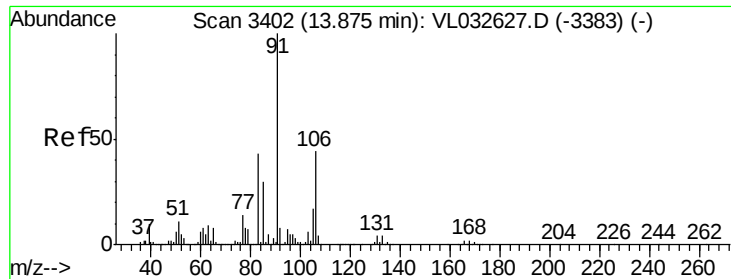
Tgt Ion: 91 Resp: 2331189

Ion Ratio Lower Upper

91 100

106 45.3 35.9 53.9





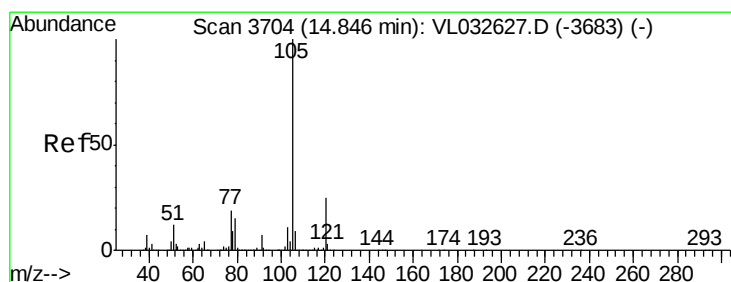
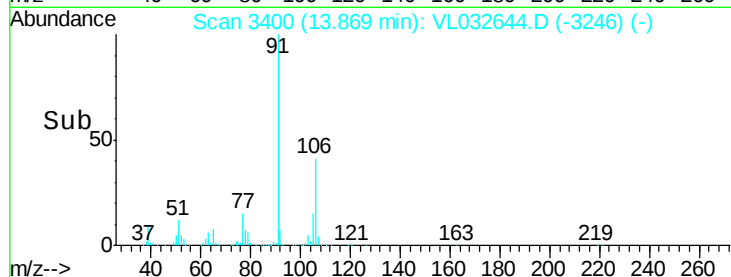
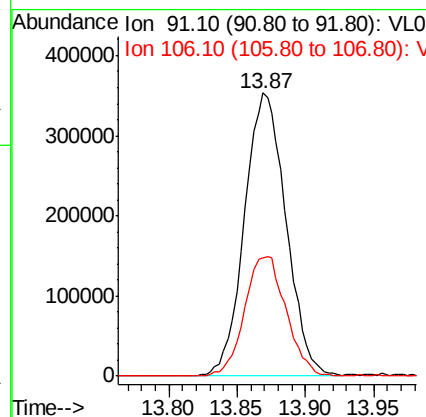
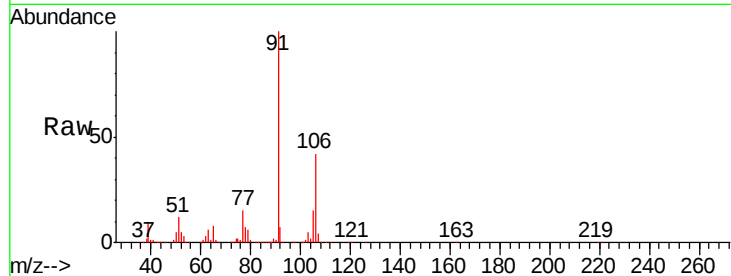
#60
o-Xylene
Concen: 2.89 ppbv
RT: 13.87 min Scan# 3400
Delta R.T. -0.01 min
Lab File: VL032644.D
Acq: 17 Oct 2018 16:59

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tgt Ion: 91 Resp: 743411
Ion Ratio Lower Upper
91 100
106 42.7 22.1 66.1

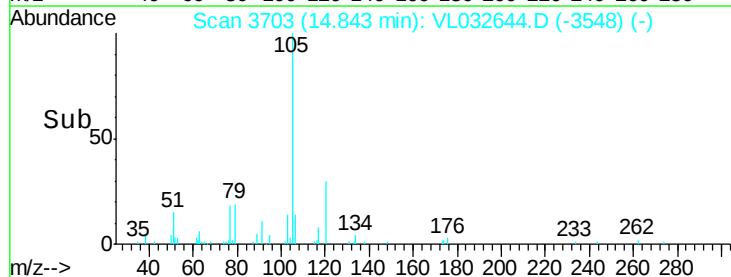
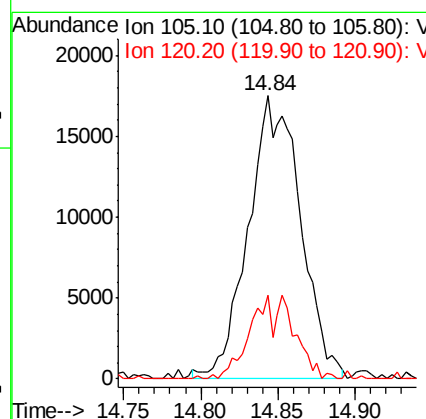
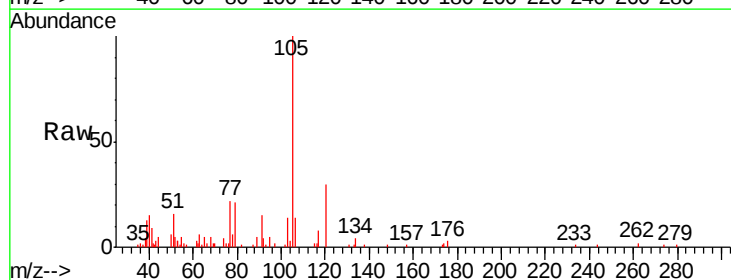
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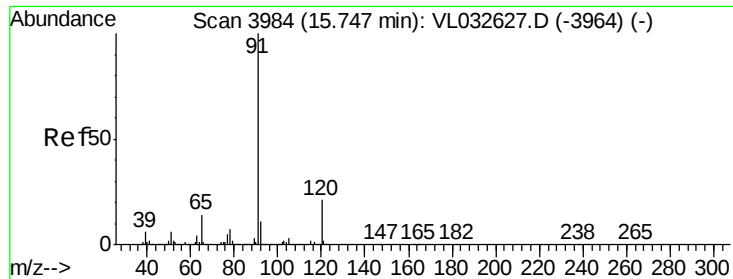
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#62
Isopropylbenzene
Concen: 0.11 ppbv m
RT: 14.84 min Scan# 3703
Delta R.T. -0.00 min
Lab File: VL032644.D
Acq: 17 Oct 2018 16:59

Tgt Ion: 105 Resp: 40985
Ion Ratio Lower Upper
105 100
120 0.0 20.5 30.7#





#64

n-propylbenzene

Concen: 0.23 ppbv m

RT: 15.74 min Scan# 3983

Delta R.T. -0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tgt Ion:120 Resp: 21210

Ion Ratio Lower Upper

120 100

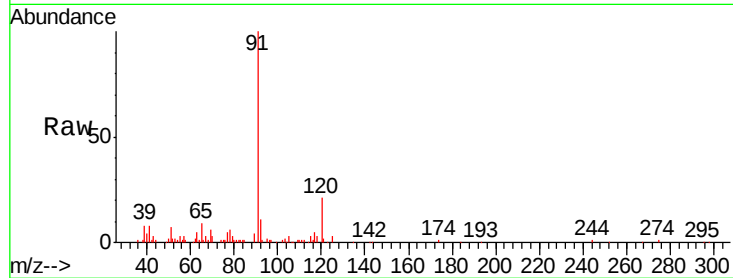
91 0.0 390.2 585.2#

Manual Integrations

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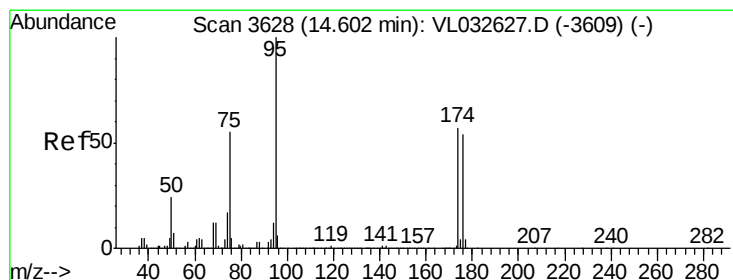
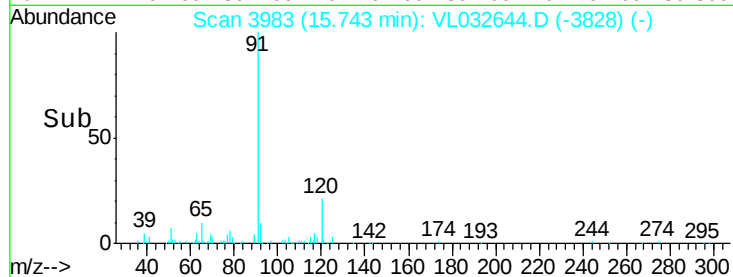
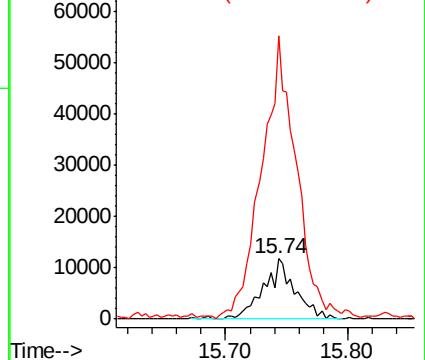
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.47 ppbv

RT: 14.60 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

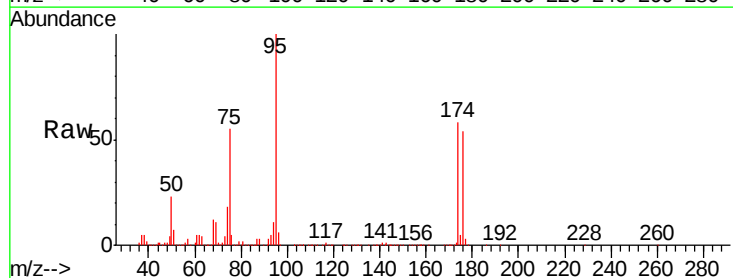
Tgt Ion: 95 Resp: 2029381

Ion Ratio Lower Upper

95 100

174 57.6 46.0 69.0

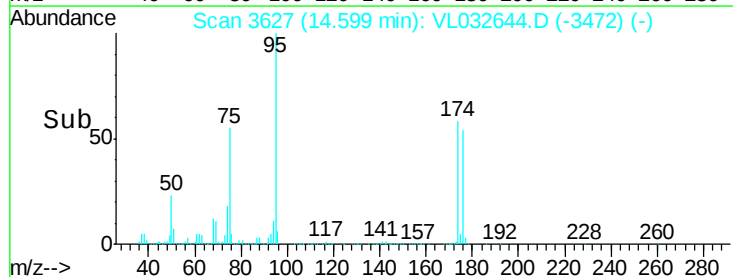
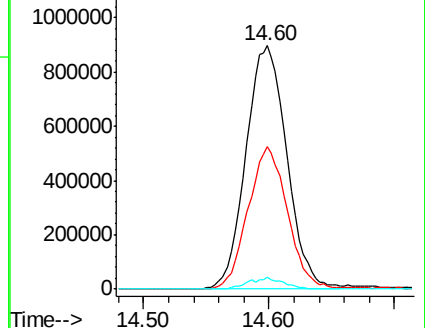
175 4.1 3.4 5.0

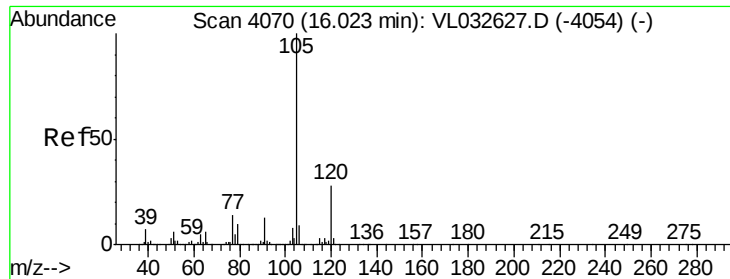


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.68 ppbv

RT: 16.02 min Scan# 4070

Delta R.T. 0.00 min

Lab File: VL032644.D

Acq: 17 Oct 2018 16:59

Instrument :

MSVOA_L

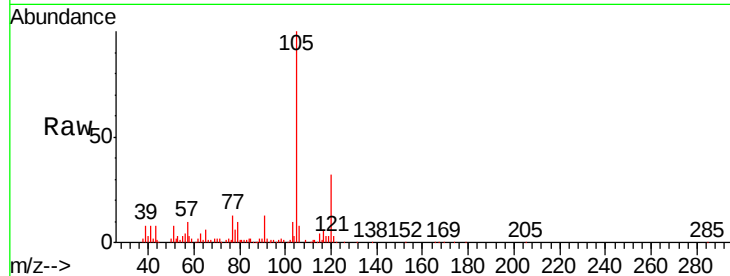
ClientSampleId :

SS08-MIVIDL

Tgt Ion:	105	Resp:	187827
Ion Ratio	Lower	Upper	
105	100		
120	29.1	23.7	35.5
91	14.2	10.4	15.6
77	15.3	11.4	17.2

Manual Integrations
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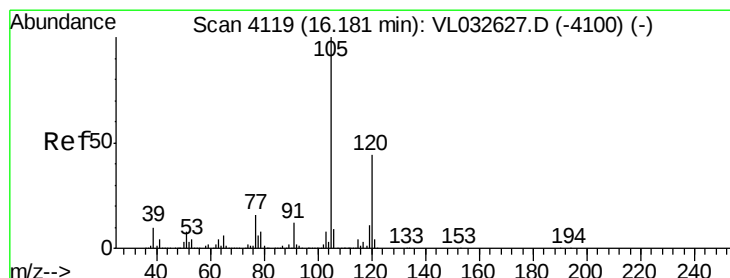
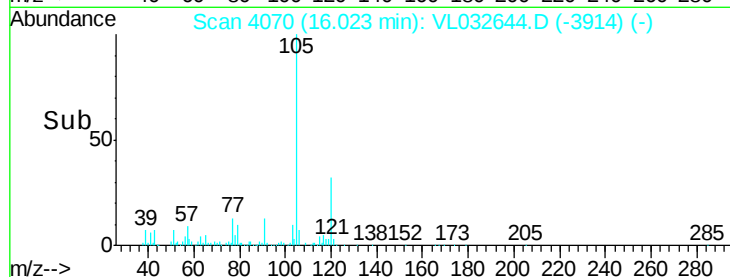
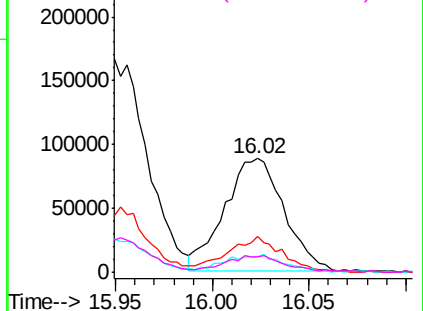


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.37 ppbv

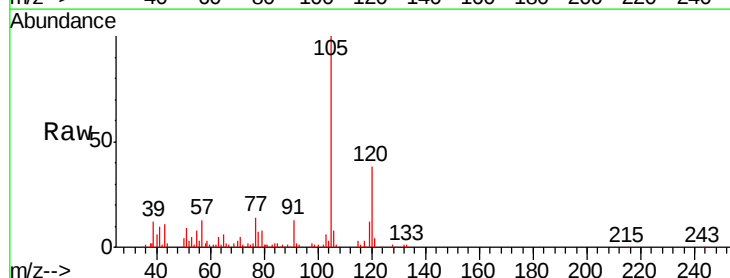
RT: 16.18 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL032644.D

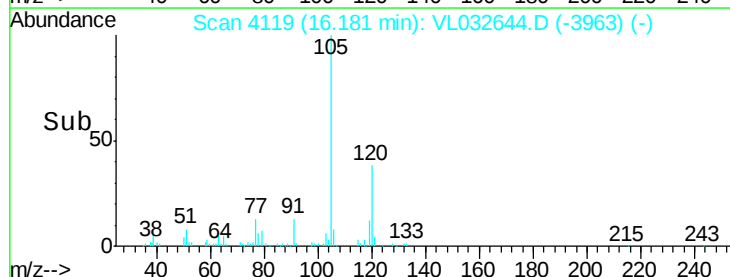
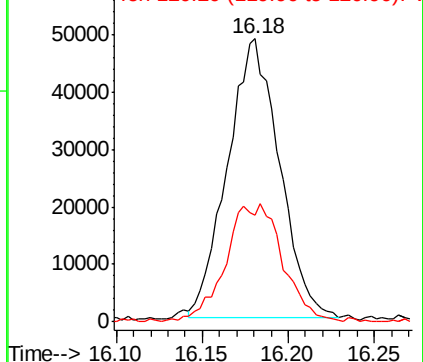
Acq: 17 Oct 2018 16:59

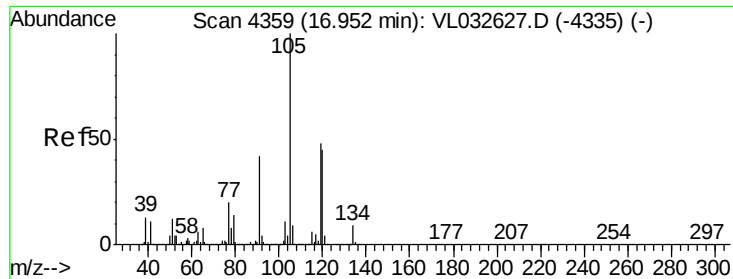
Tgt Ion:	105	Resp:	101233
Ion Ratio	Lower	Upper	
105	100		
120	37.9	35.4	53.2



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: 1.00 ppbv
 RT: 16.95 min Scan# 4358
 Delta R.T. -0.00 min
 Lab File: VL032644.D
 Acq: 17 Oct 2018 16:59

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL

Tgt Ion:	105	Resp:	305147
Ion Ratio		Lower	Upper
105	100		
120	41.6	35.8	53.8
91	12.5	33.2	49.8#
77	15.3	16.2	24.4#

Manual Integrations
 APPROVED

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