

Data File : VL032563.D
Acq On : 28 Sep 2018 00:06
Operator : SY/AP
Sample : J5094-01DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Quant Time: Sep 28 02:11:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1279700	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2847854	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3023604	10.00	ppbv	-0.03

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2118017 9.29 ppbv -0.03
Spiked Amount 10.000 Range 65 - 135 Recovery = 92.90%

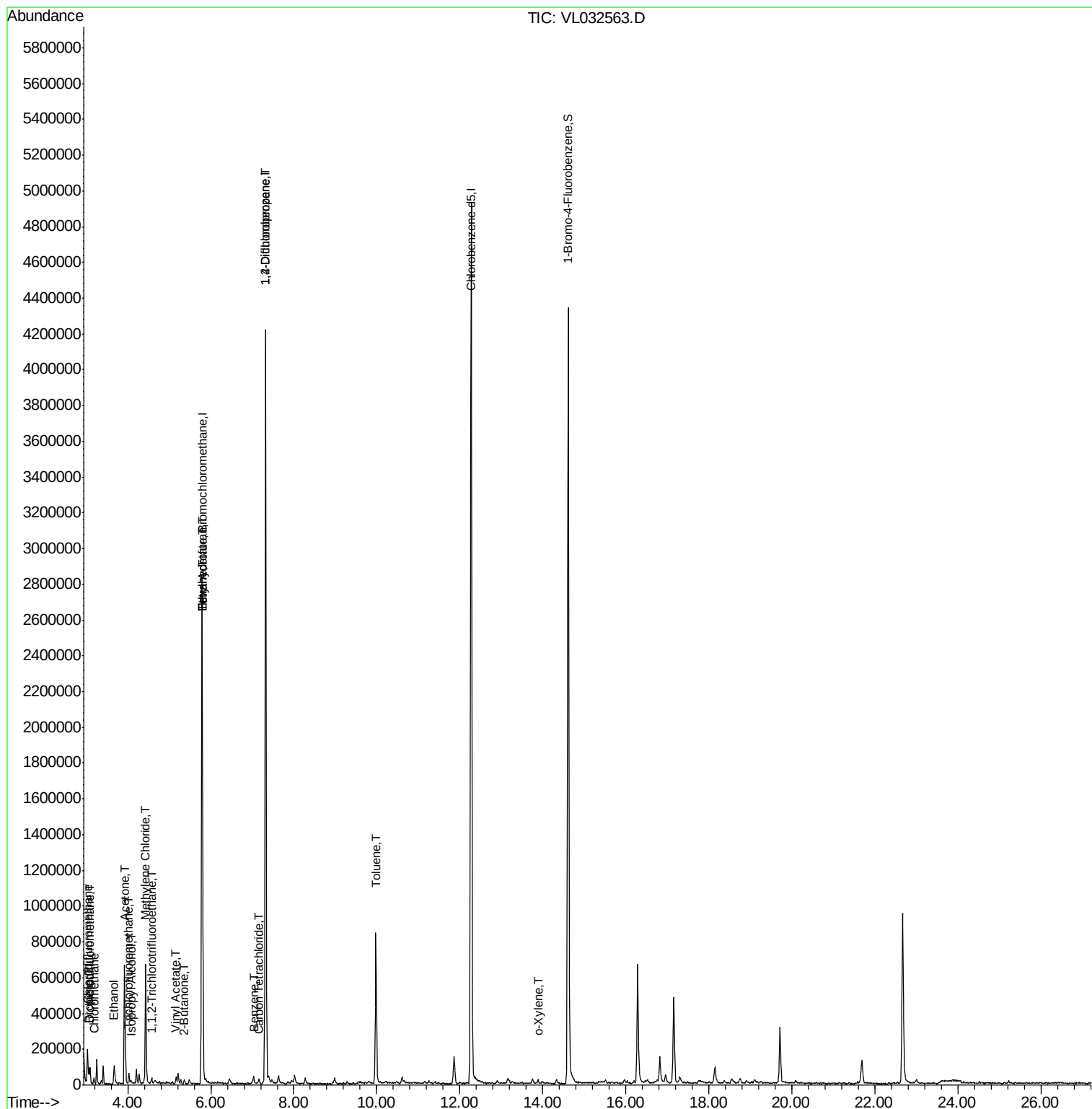
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	59441	0.502	ppbv	98
3) Chlorodifluoromethane	3.03	51	181724	1.708	ppbv	100
4) Chloromethane	3.19	50	28666	0.462	ppbv #	88
9) Propene	3.06	41	16357	0.354	ppbv	86
11) Trichlorofluoromethane	4.03	101	37944	0.270	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.58	101	4794	0.042	ppbv #	15
13) Ethanol	3.67	45	110146	7.936	ppbv	90
15) Acetone	3.92	43	661972	5.893	ppbv	100
19) Isopropyl Alcohol	4.07	45	7475	0.096	ppbv #	93
20) Methylene Chloride	4.43	84	230079	4.230	ppbv	98
23) Vinyl Acetate	5.17	43	8031	0.040	ppbv #	79
25) Ethyl Acetate	5.80	43	171399	0.629	ppbv #	79
26) Hexane	5.80	57	228407	1.855	ppbv #	44
34) 2-Butanone	5.36	43	16925	0.100	ppbv #	74
35) Carbon Tetrachloride	7.16	117	15546	0.079	ppbv	96
36) Benzene	7.03	78	34417	0.150	ppbv #	89
39) 1,2-Dichloropropane	7.32	63	769492	7.419	ppbv #	26
41) Tetrahydrofuran	5.80	42	95596	1.038	ppbv #	52
53) Toluene	9.98	91	577200	2.058	ppbv	99
60) o-Xylene	13.88	91	10129	0.032	ppbv #	32

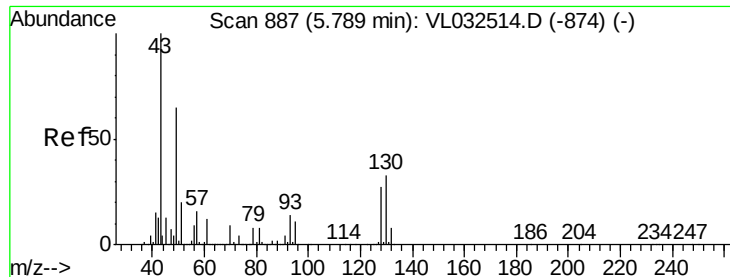
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

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MSVOA_L

ClientSampleId :

AA-1DUP

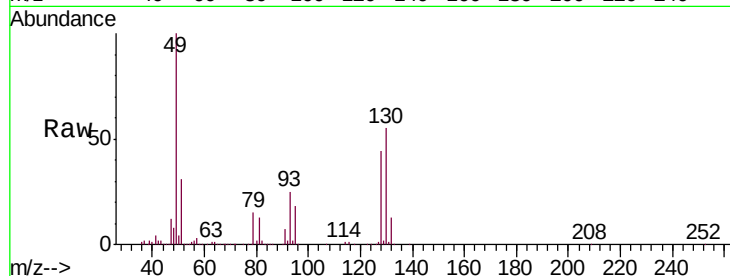
Tgt Ion: 49 Resp: 1279700

Ion Ratio Lower Upper

49 100

128 44.6 20.7 62.1

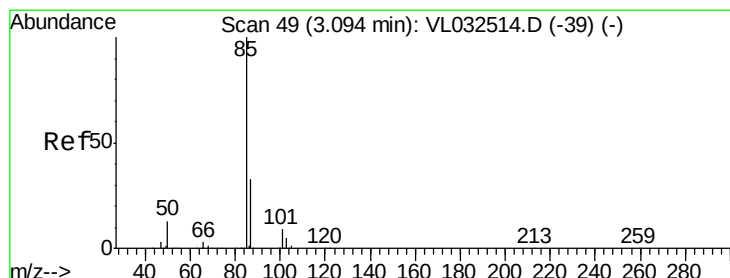
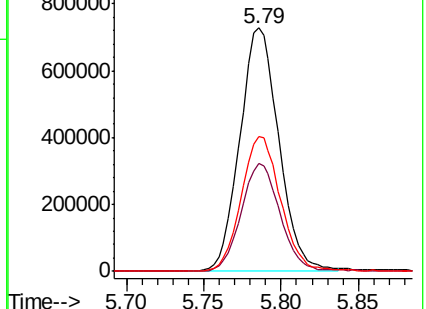
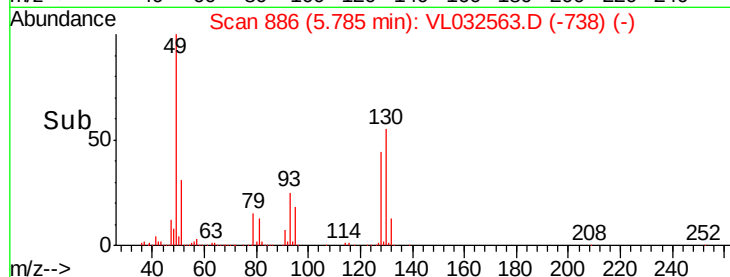
130 56.2 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.502 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.02 min

Lab File: VL032563.D

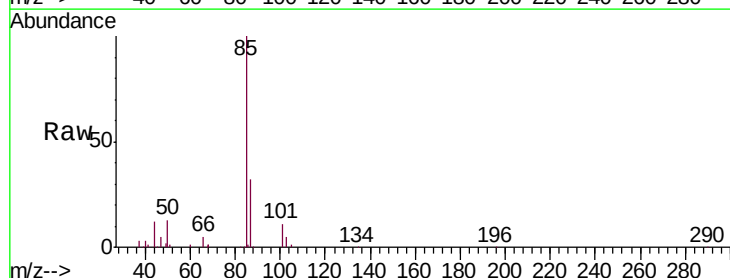
Acq: 28 Sep 2018 00:06

Tgt Ion: 85 Resp: 59441

Ion Ratio Lower Upper

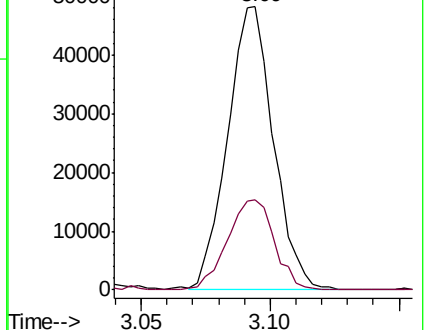
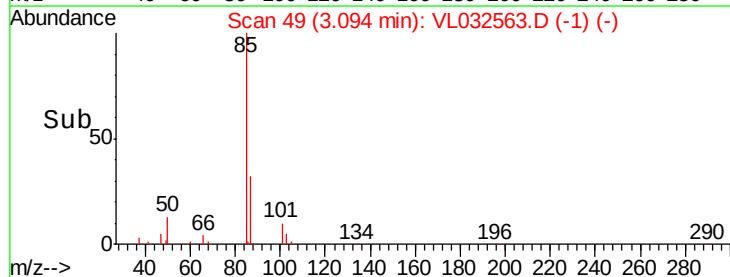
85 100

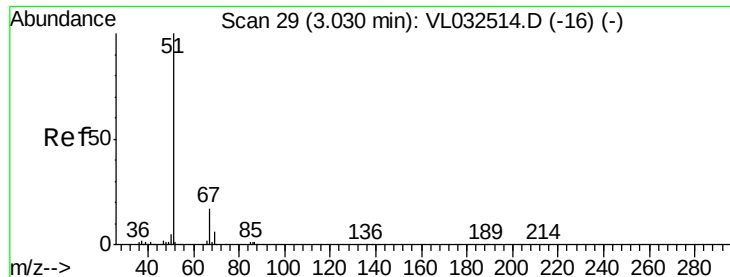
87 31.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.708 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.02 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

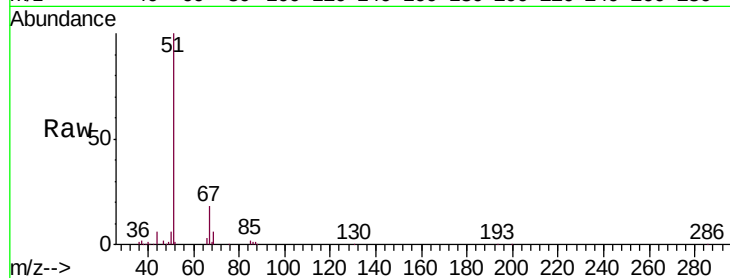
AA-1DUP

Tgt Ion: 51 Resp: 181724

Ion Ratio Lower Upper

51 100

67 17.3 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.03

150000

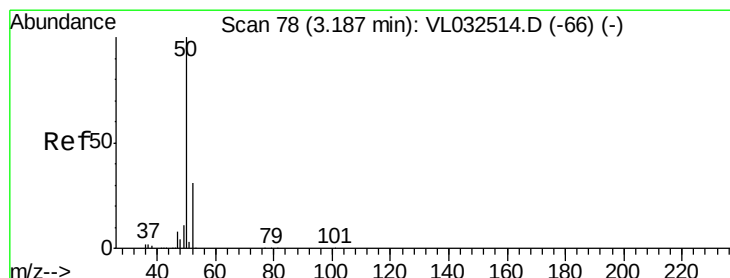
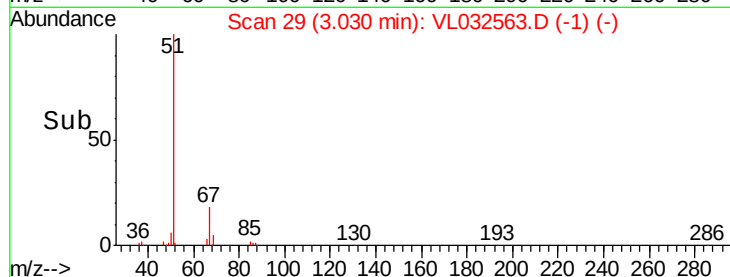
100000

50000

0

Time-->

3.00 3.10



#4

Chloromethane

Concen: 0.462 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.02 min

Lab File: VL032563.D

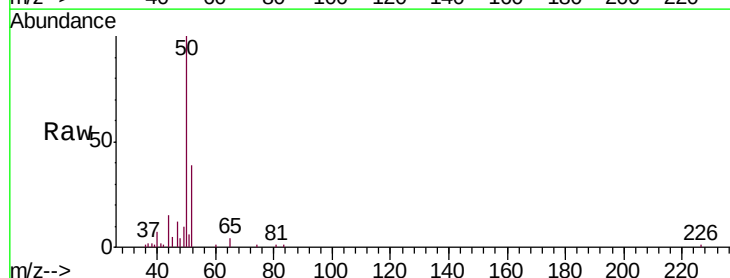
Acq: 28 Sep 2018 00:06

Tgt Ion: 50 Resp: 28666

Ion Ratio Lower Upper

50 100

52 38.5 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.19

20000

15000

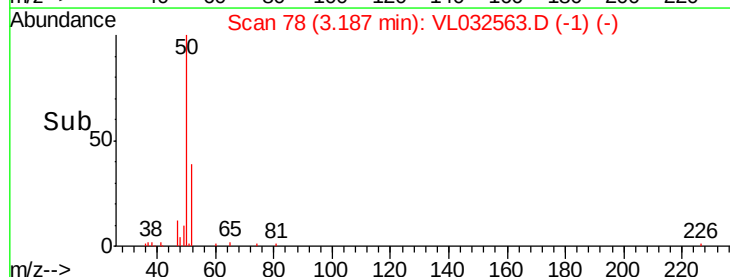
10000

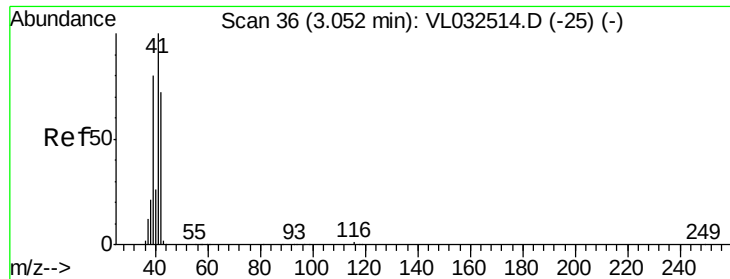
5000

0

Time-->

3.15 3.20





#9

Propene

Concen: 0.354 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

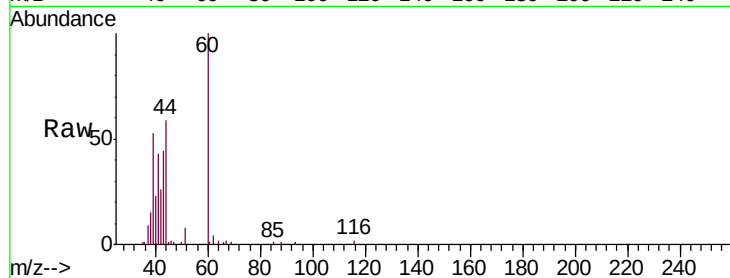
AA-1DUP

Tgt Ion: 41 Resp: 16357

Ion Ratio Lower Upper

41 100

42 59.0 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

10000

8000

6000

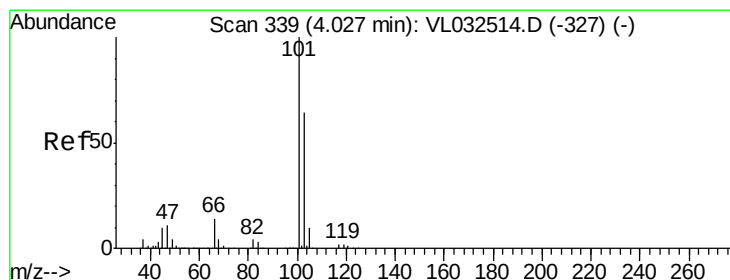
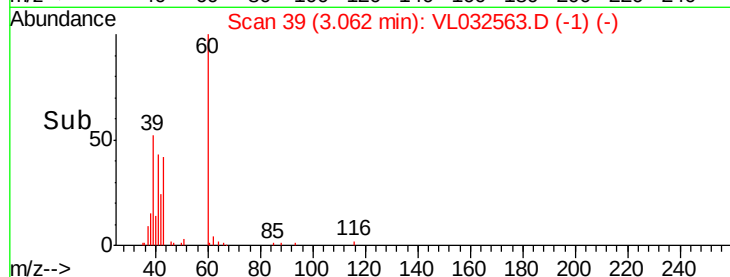
4000

2000

0

Time--> 3.00 3.05 3.10

3.06



#11

Trichlorofluoromethane

Concen: 0.270 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.02 min

Lab File: VL032563.D

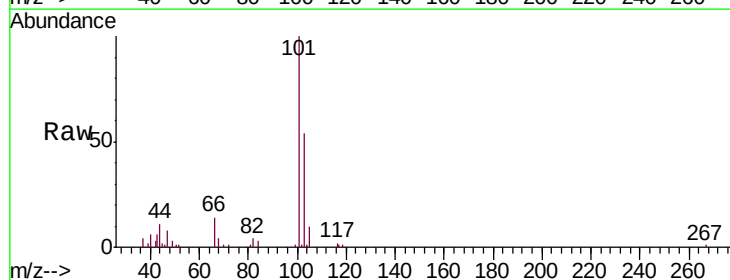
Acq: 28 Sep 2018 00:06

Tgt Ion: 101 Resp: 37944

Ion Ratio Lower Upper

101 100

103 53.7 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

30000

25000

20000

15000

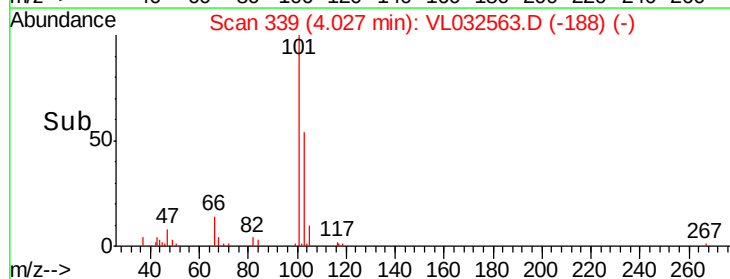
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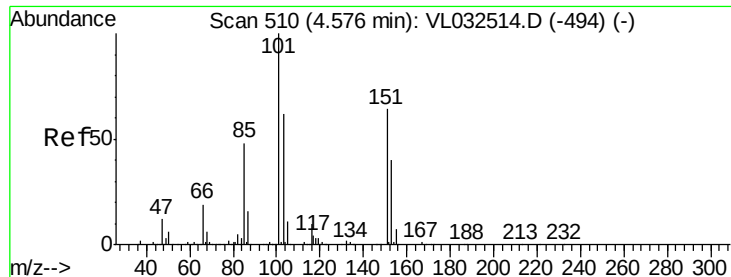
5000

0

Time--> 4.00 4.05

4.03





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.042 ppbv

RT: 4.58 min Scan# 510

Delta R.T. -0.02 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

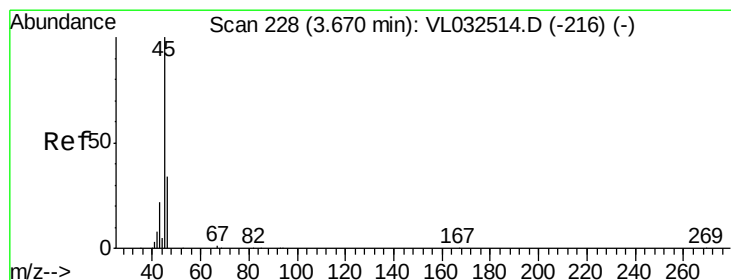
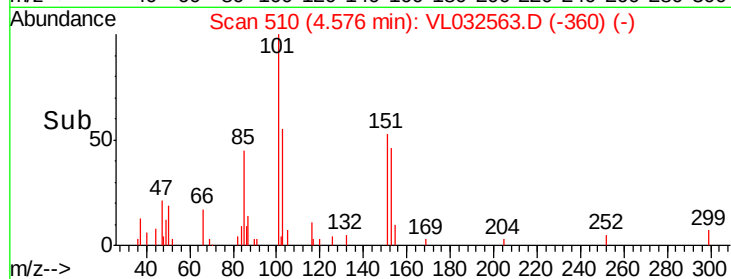
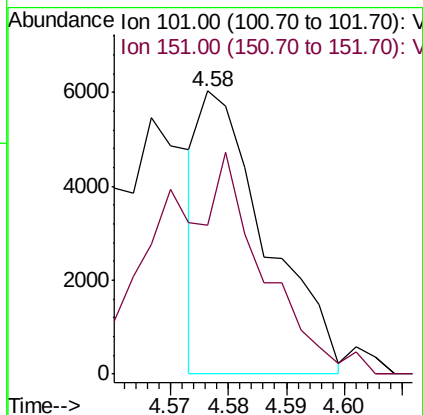
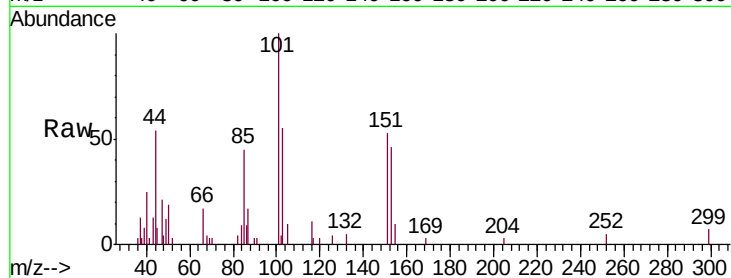
AA-1DUP

Tgt Ion:101 Resp: 4794

Ion Ratio Lower Upper

101 100

151 133.4 52.6 78.8#



#13

Ethanol

Concen: 7.936 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.02 min

Lab File: VL032563.D

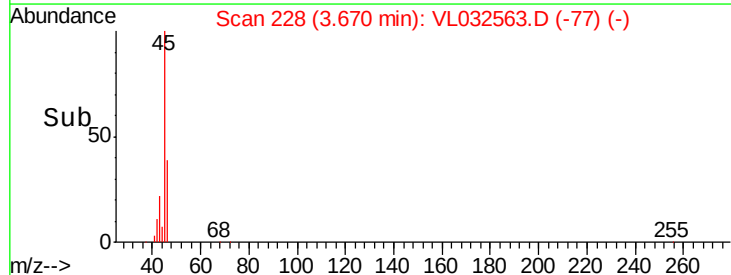
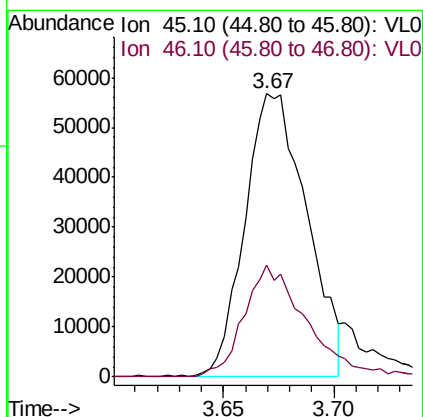
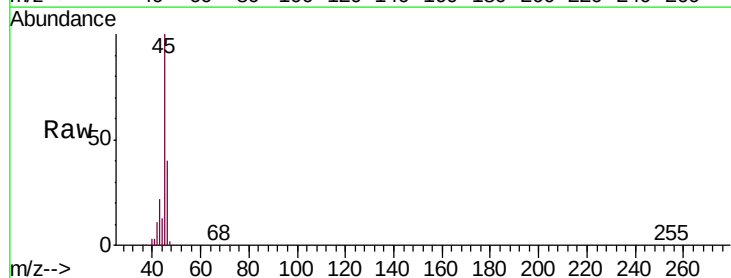
Acq: 28 Sep 2018 00:06

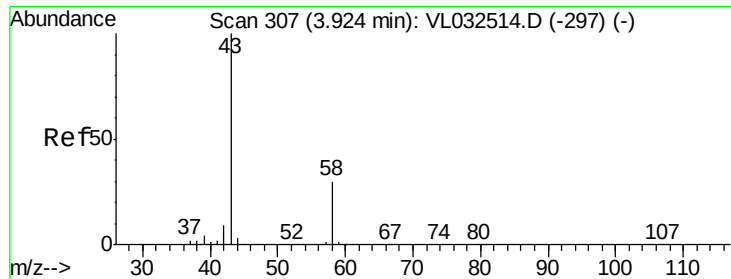
Tgt Ion: 45 Resp: 110146

Ion Ratio Lower Upper

45 100

46 41.6 14.2 56.8





#15

Acetone

Concen: 5.893 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

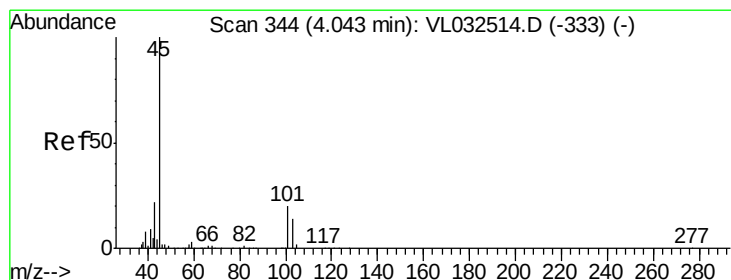
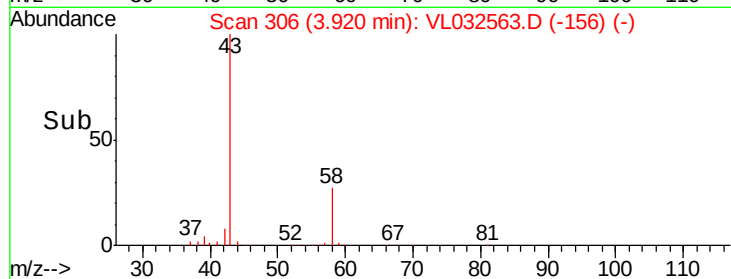
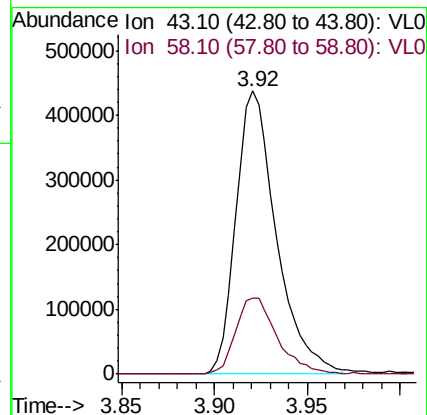
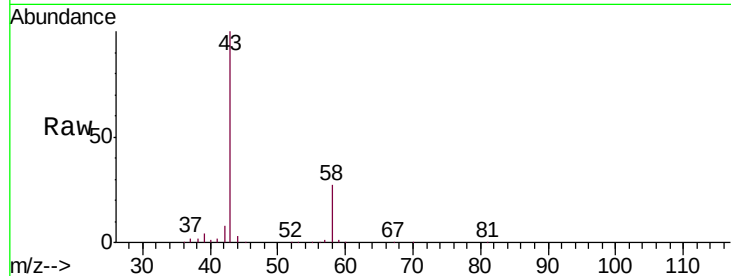
AA-1DUP

Tgt Ion: 43 Resp: 661972

Ion Ratio Lower Upper

43 100

58 28.4 22.6 33.8



#19

Isopropyl Alcohol

Concen: 0.096 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL032563.D

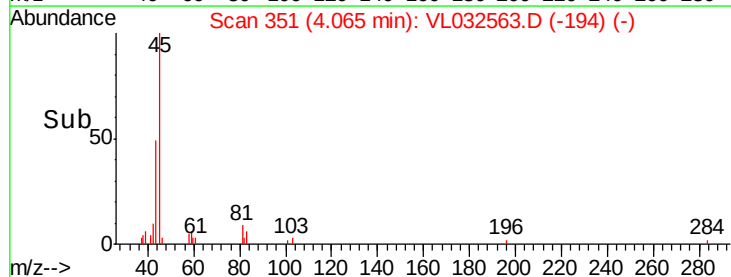
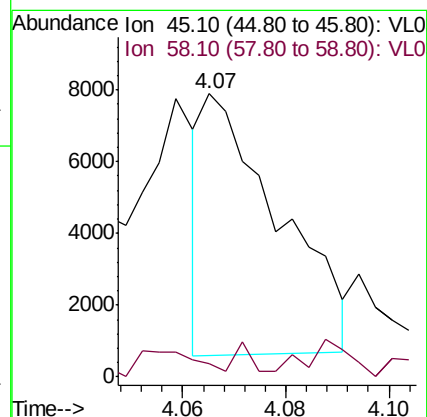
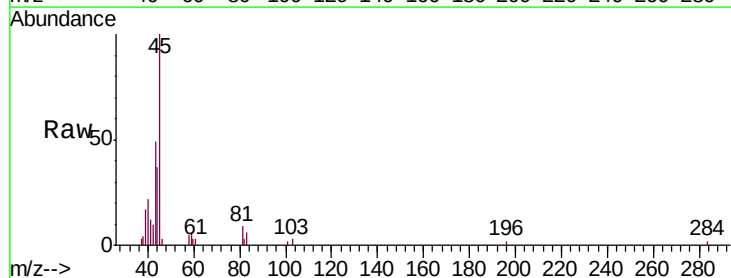
Acq: 28 Sep 2018 00:06

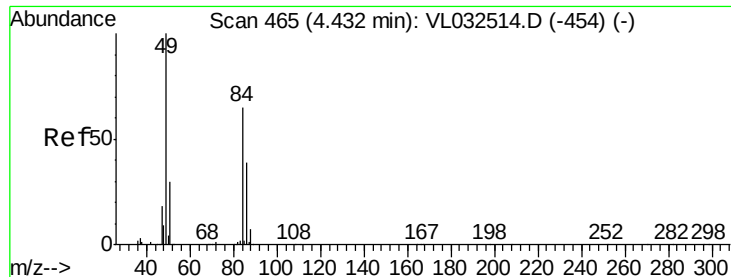
Tgt Ion: 45 Resp: 7475

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#

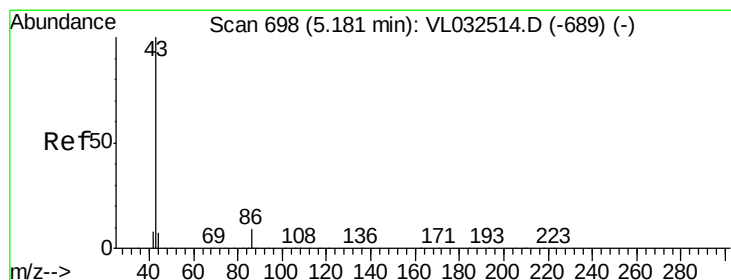
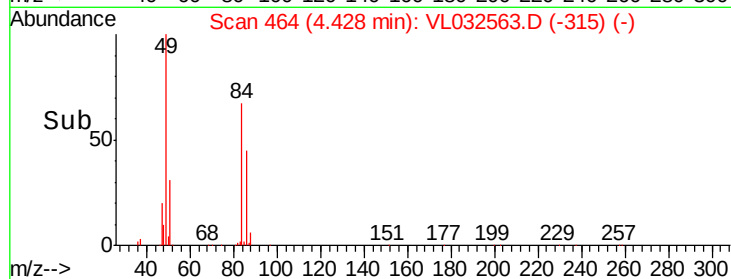
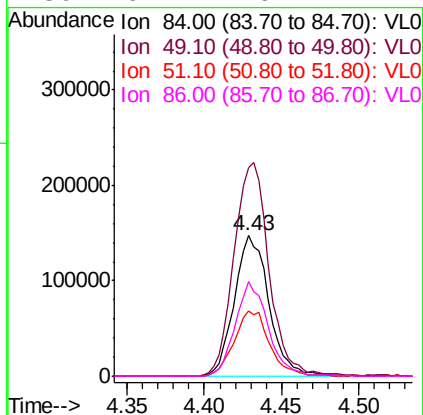
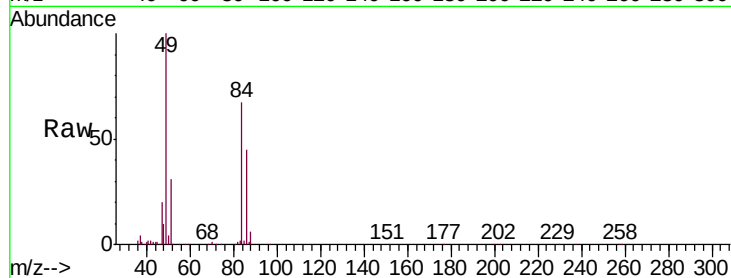




#20
Methylene Chloride
Concen: 4.230 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032563.D
Acq: 28 Sep 2018 00:06

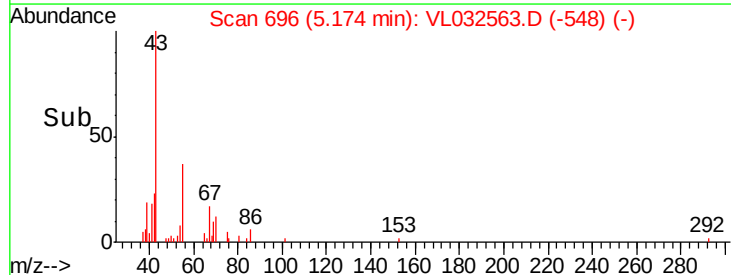
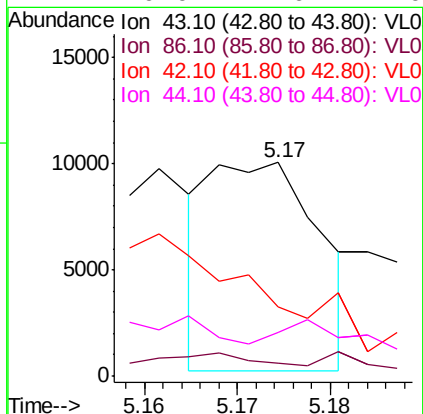
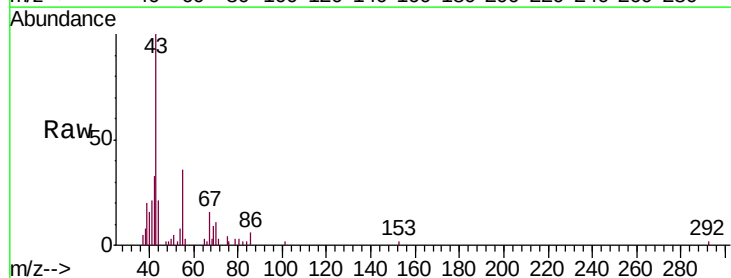
Instrument :
MSVOA_L
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AA-1DUP

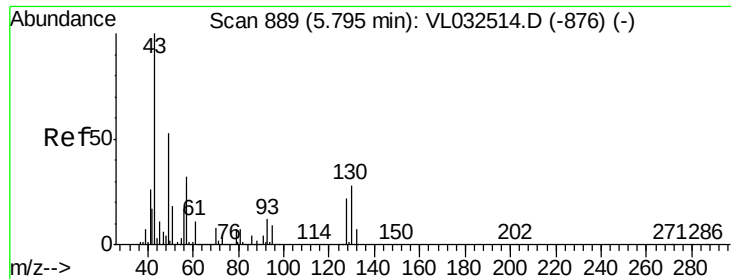
Tgt Ion:	84	Resp:	230079
Ion	Ratio	Lower	Upper
84	100		
49	149.1	119.1	178.7
51	46.6	35.2	52.8
86	67.2	49.4	74.2



#23
Vinyl Acetate
Concen: 0.040 ppbv
RT: 5.17 min Scan# 696
Delta R.T. -0.02 min
Lab File: VL032563.D
Acq: 28 Sep 2018 00:06

Tgt Ion:	43	Resp:	8031
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.9	8.9#
42	0.0	6.9	10.3#
44	0.0	4.6	7.0#

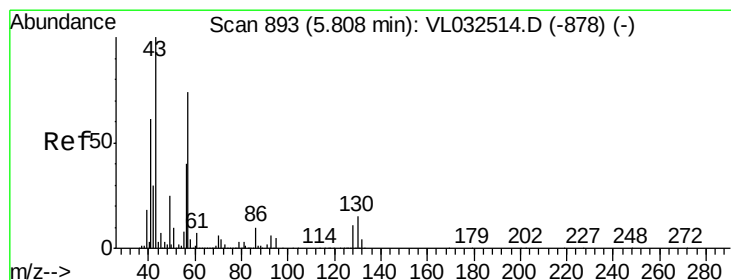
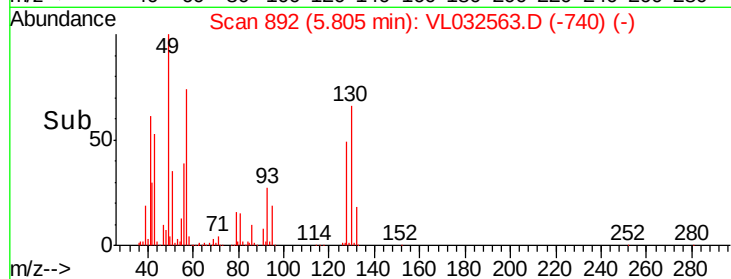
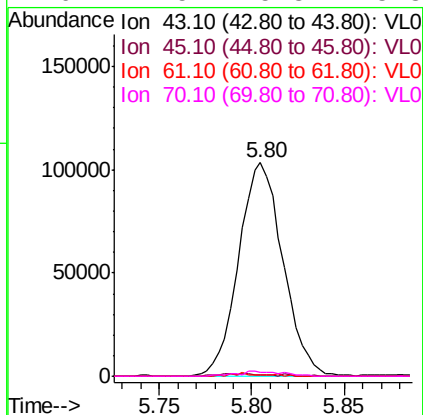
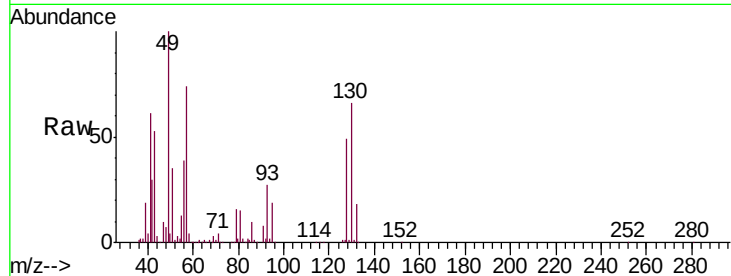




#25
Ethyl Acetate
Concen: 0.629 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL032563.D
Acq: 28 Sep 2018 00:06

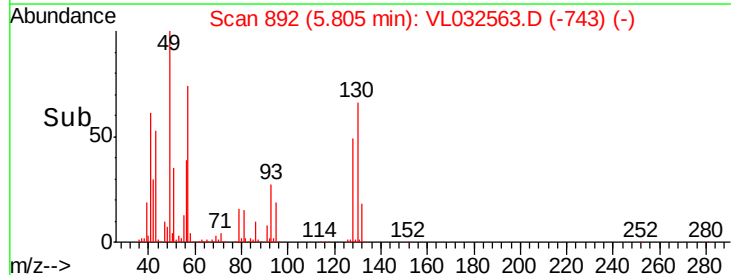
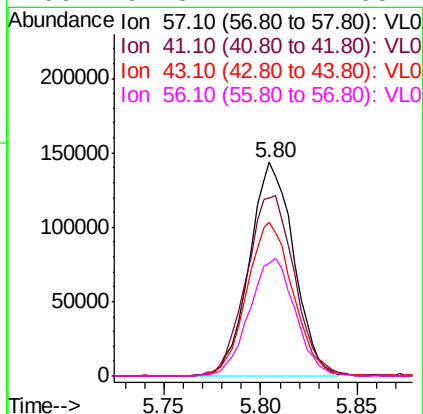
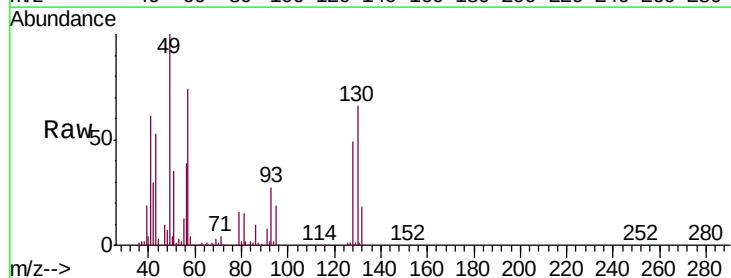
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

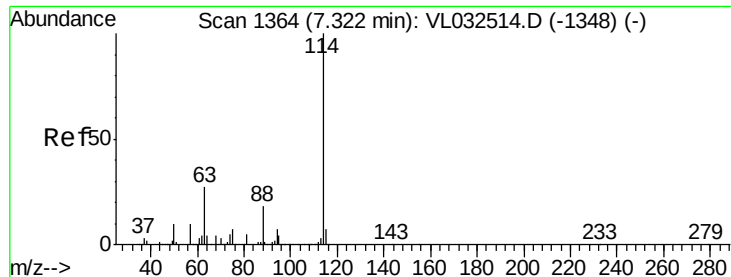
Tgt Ion:	43	Resp:	171399
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.0	12.0#
61	1.2	7.6	11.4#
70	2.5	5.8	8.8#



#26
Hexane
Concen: 1.855 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032563.D
Acq: 28 Sep 2018 00:06

Tgt Ion:	57	Resp:	228407
Ion	Ratio	Lower	Upper
57	100		
41	92.4	69.0	103.4
43	75.4	172.1	258.1#
56	57.3	42.2	63.2

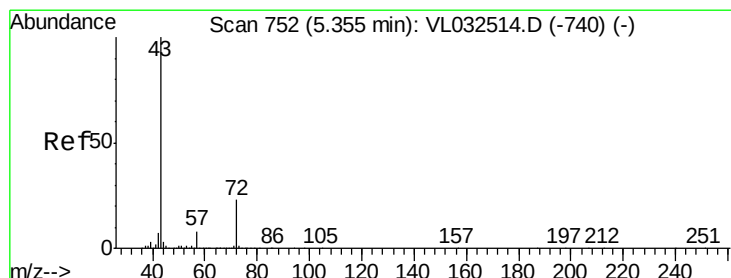
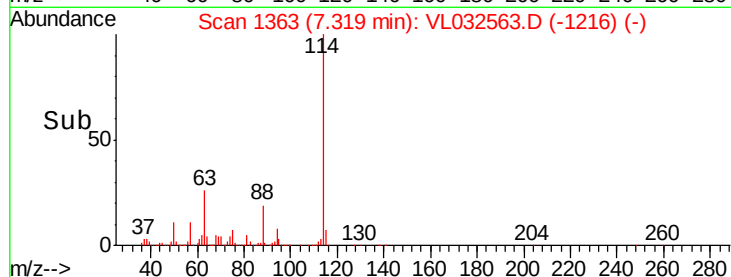
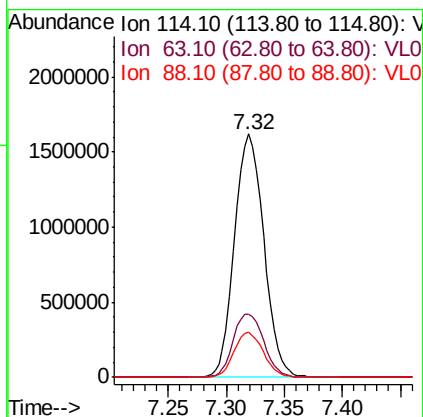
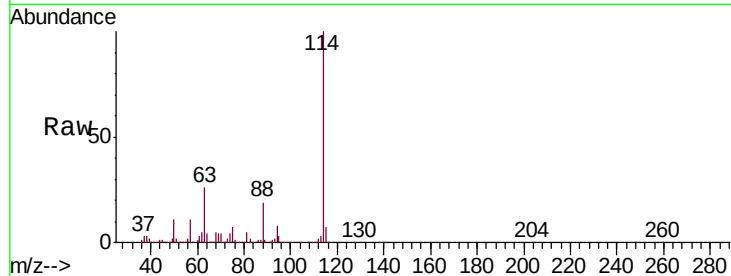




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032563.D
 Acq: 28 Sep 2018 00:06

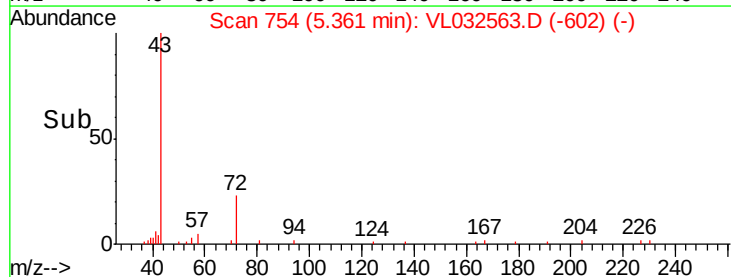
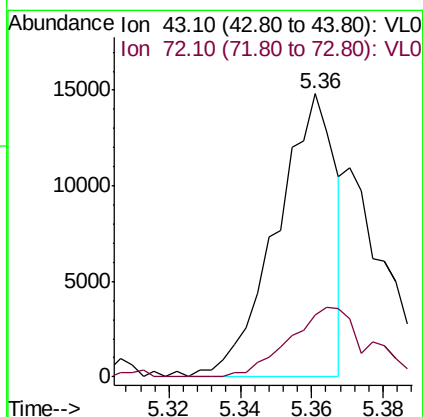
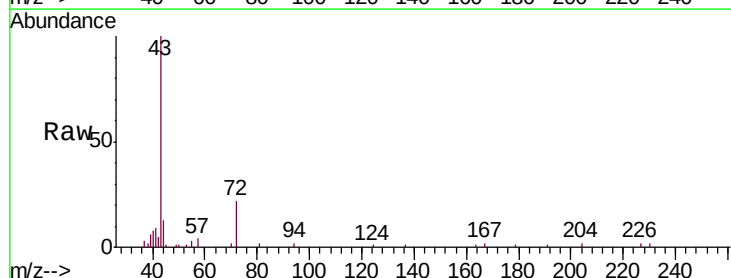
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

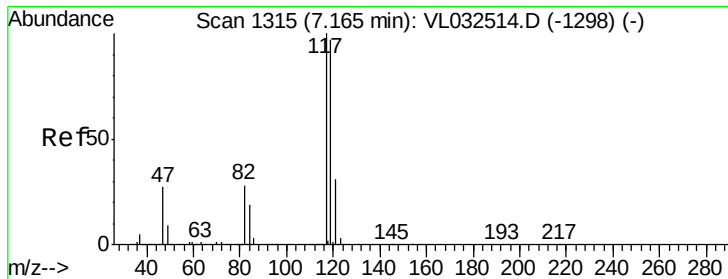
Tgt Ion:114 Resp: 2847854
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.4
 88 18.5 15.0 22.4



#34
 2-Butanone
 Concen: 0.100 ppbv
 RT: 5.36 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VL032563.D
 Acq: 28 Sep 2018 00:06

Tgt Ion: 43 Resp: 16925
 Ion Ratio Lower Upper
 43 100
 72 34.6 17.8 26.6#





#35

Carbon Tetrachloride

Concen: 0.079 ppbv

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

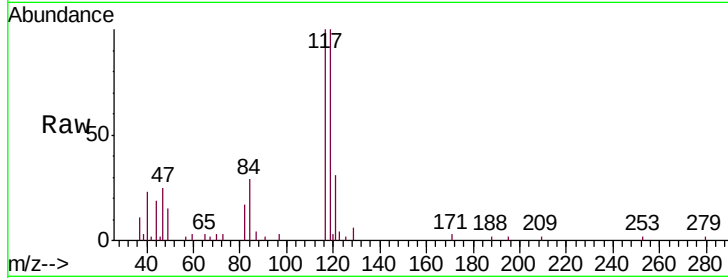
Tgt Ion:117 Resp: 15546

Ion Ratio Lower Upper

117 100

119 100.4 76.6 115.0

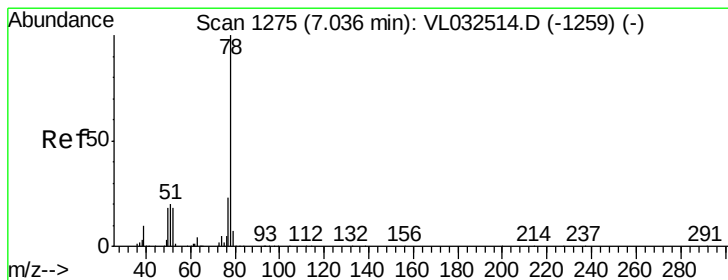
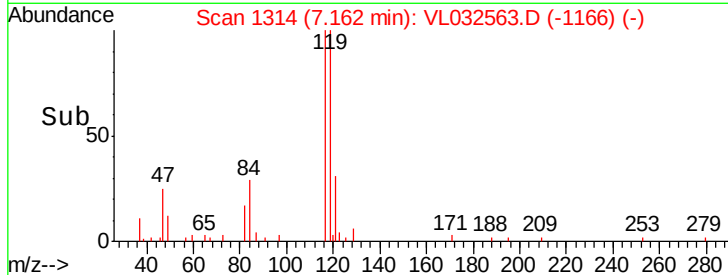
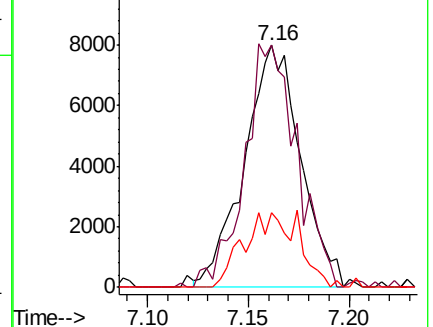
121 31.1 24.6 36.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.150 ppbv

RT: 7.03 min Scan# 1273

Delta R.T. -0.03 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

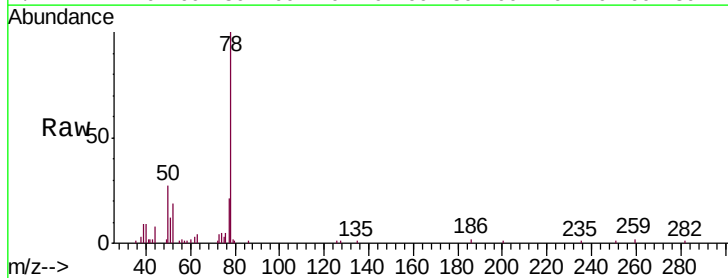
Tgt Ion: 78 Resp: 34417

Ion Ratio Lower Upper

78 100

77 21.8 18.4 27.6

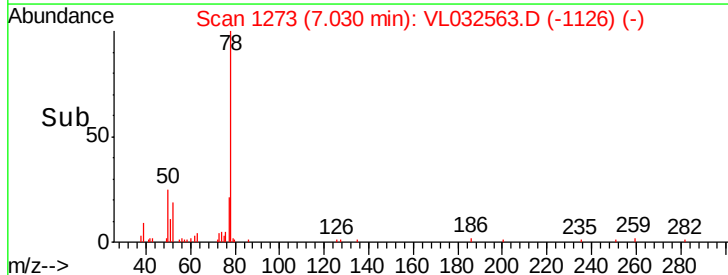
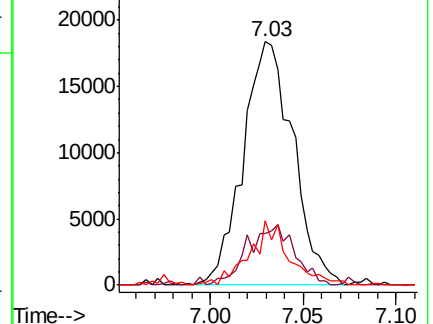
50 27.3 14.4 21.6#

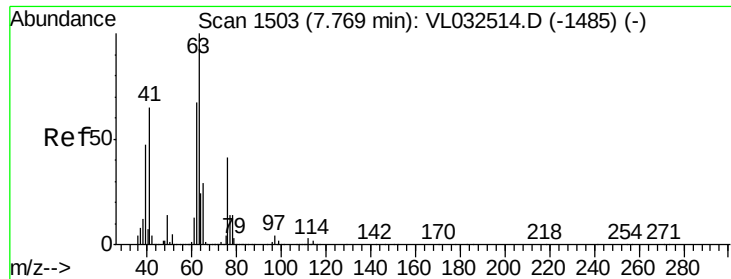


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 7.419 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

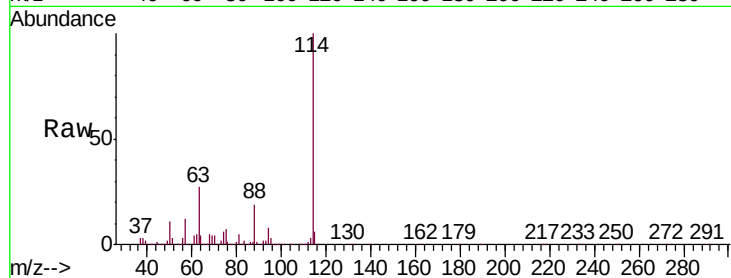
Tgt Ion: 63 Resp: 769492

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

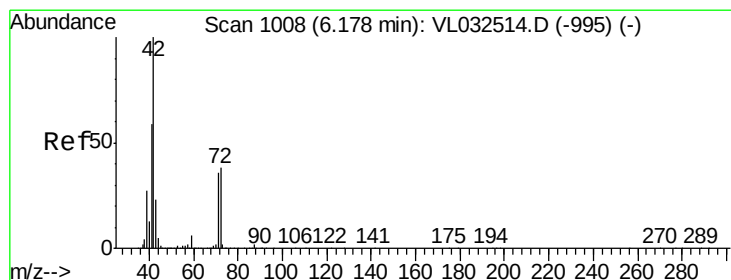
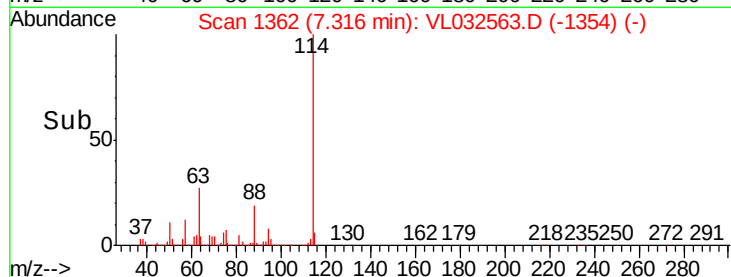
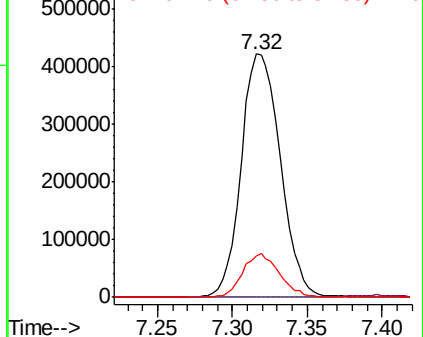
62 17.3 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 1.038 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.39 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

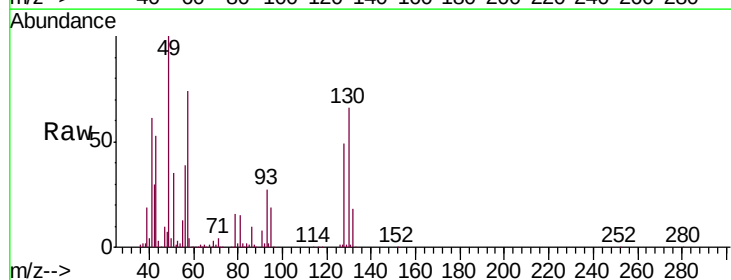
Tgt Ion: 42 Resp: 95596

Ion Ratio Lower Upper

42 100

72 0.9 29.5 44.3#

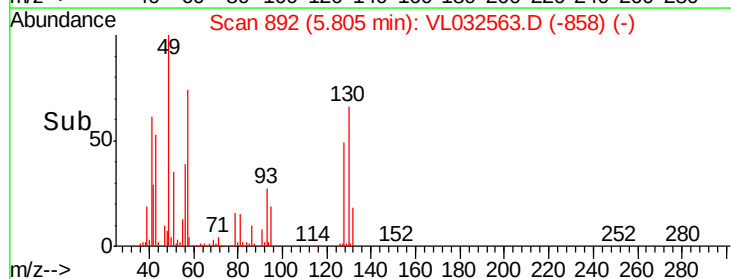
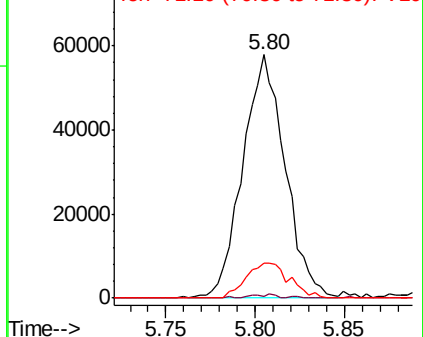
71 14.6 28.3 42.5#

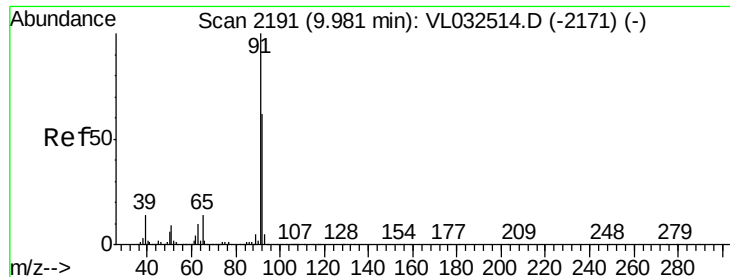


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 2.058 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

Instrument :

MSVOA_L

ClientSampleId :

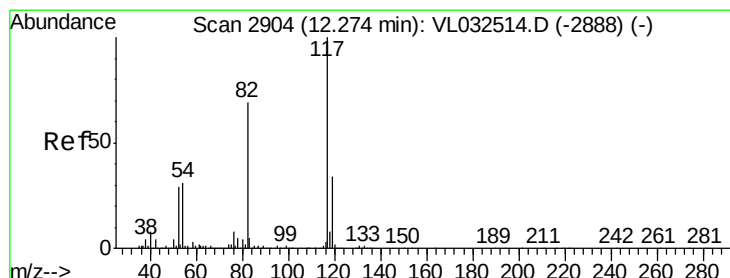
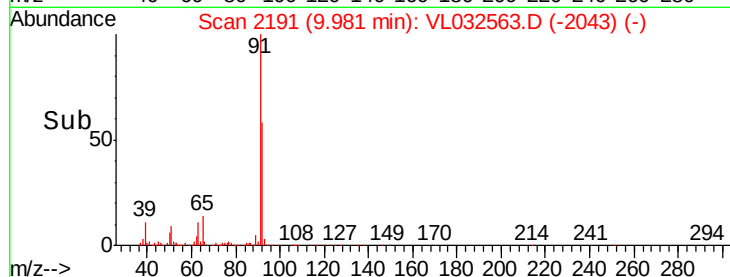
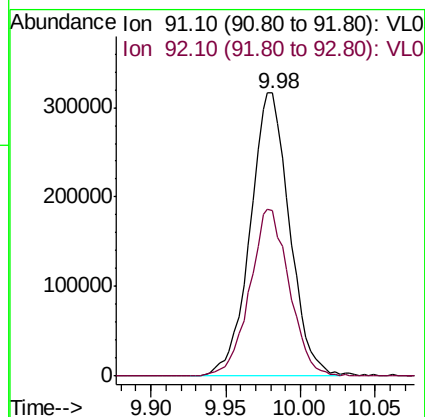
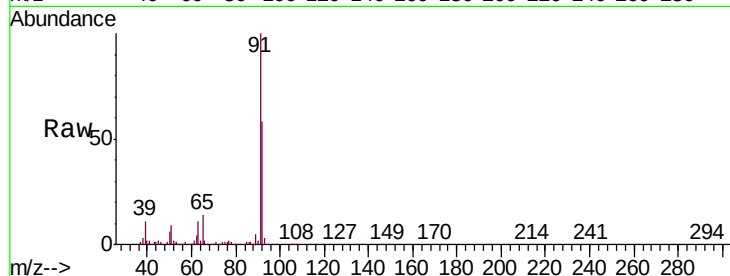
AA-1DUP

Tgt Ion: 91 Resp: 577200

Ion Ratio Lower Upper

91 100

92 59.7 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032563.D

Acq: 28 Sep 2018 00:06

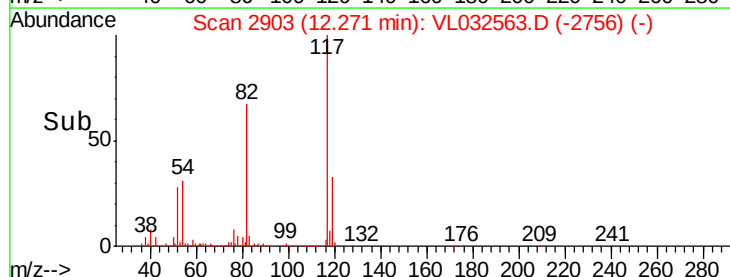
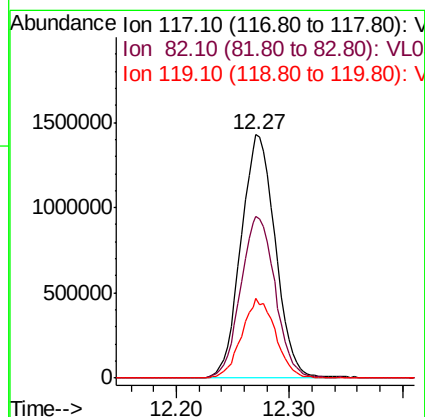
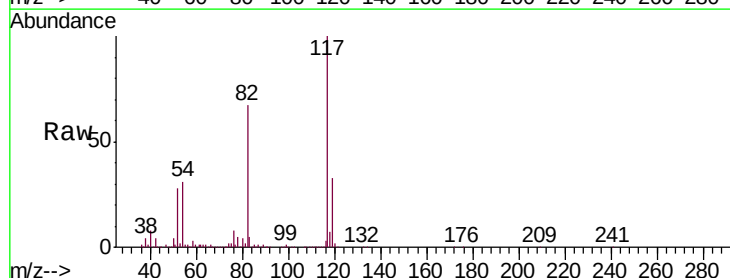
Tgt Ion: 117 Resp: 3023604

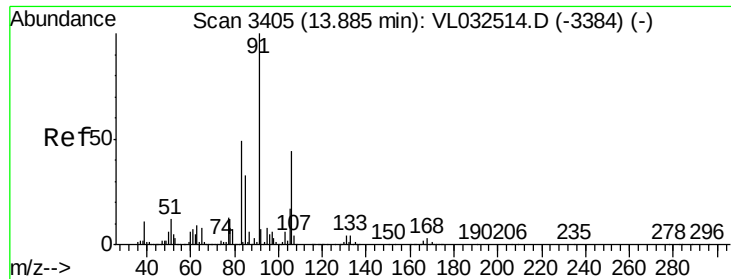
Ion Ratio Lower Upper

117 100

82 67.1 53.0 79.6

119 32.3 45.9 68.9#

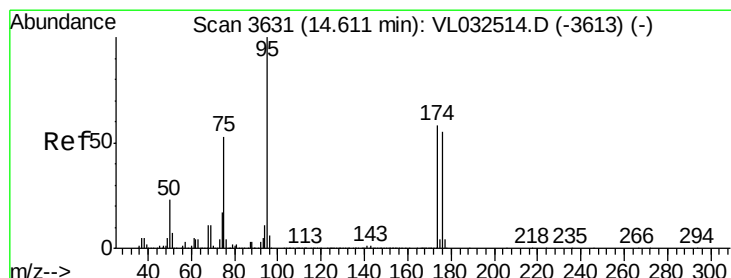
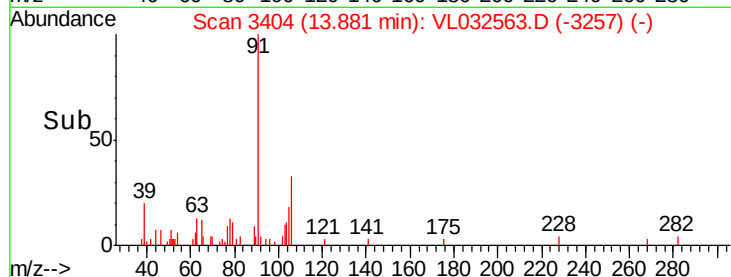
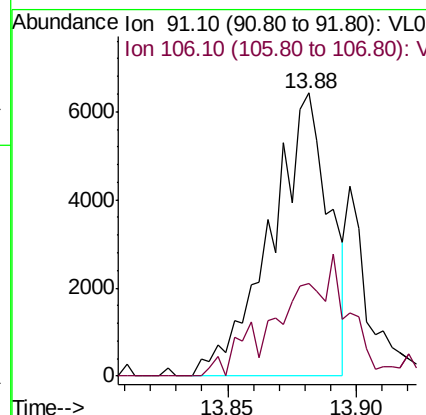
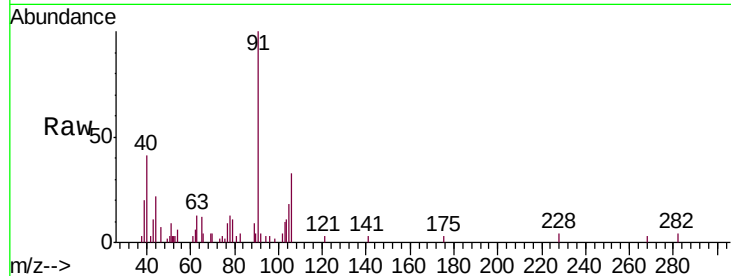




#60
o-Xylene
Concen: 0.032 ppbv
RT: 13.88 min Scan# 3404
Delta R.T. -0.03 min
Lab File: VL032563.D
Acq: 28 Sep 2018 00:06

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 91 Resp: 10129
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.289 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032563.D
Acq: 28 Sep 2018 00:06

Tgt Ion: 95 Resp: 2118017
Ion Ratio Lower Upper
95 100
174 57.7 46.3 69.5
175 4.1 3.4 5.0

