

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032277.D
 Acq On : 19 Jul 2018 1:49
 Operator : SY/AP
 Sample : J3454-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-8

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:23 PM

Quant Time: Jul 19 04:29:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 18:04:29 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1669603	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3572265	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4134095	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3287190	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	152720	0.54	ppbv	97
3) Chlorodifluoromethane	3.06	51	234051m	1.25	ppbv	
4) Chloromethane	3.22	50	60419	0.55	ppbv	92
9) Propene	3.10	41	51692	0.63	ppbv #	82
10) Heptane	8.33	43	87657	0.34	ppbv	99
11) Trichlorofluoromethane	4.07	101	63966	0.29	ppbv	94
13) Ethanol	3.71	45	1500139	64.12	ppbv	99
15) Acetone	3.96	43	1824535	10.44	ppbv	98
17) tert-Butyl alcohol	4.44	59	21432	0.39	ppbv #	94
19) Isopropyl Alcohol	4.10	45	331780	2.81	ppbv #	1
20) Methylene Chloride	4.47	84	248362	3.69	ppbv	96
26) Hexane	5.85	57	2529596	14.47	ppbv #	44
34) 2-Butanone	5.40	43	212442	0.87	ppbv	98
35) Carbon Tetrachloride	7.21	117	17492m	0.07	ppbv	
36) Benzene	7.08	78	62074m	0.18	ppbv	
44) 2,2,4-Trimethylpentane	8.07	57	96127m	0.16	ppbv	
53) Toluene	10.03	91	361269	0.85	ppbv	99
58) Ethyl Benzene	12.95	91	141937	0.24	ppbv	98
59) m/p-Xylene	13.21	91	652098	1.31	ppbv	99
60) o-Xylene	13.94	91	258394	0.52	ppbv	95
61) Styrene	13.78	104	67465m	0.18	ppbv	
74) 1,2,4-Trimethylbenzene	17.01	105	101839	0.17	ppbv #	68

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

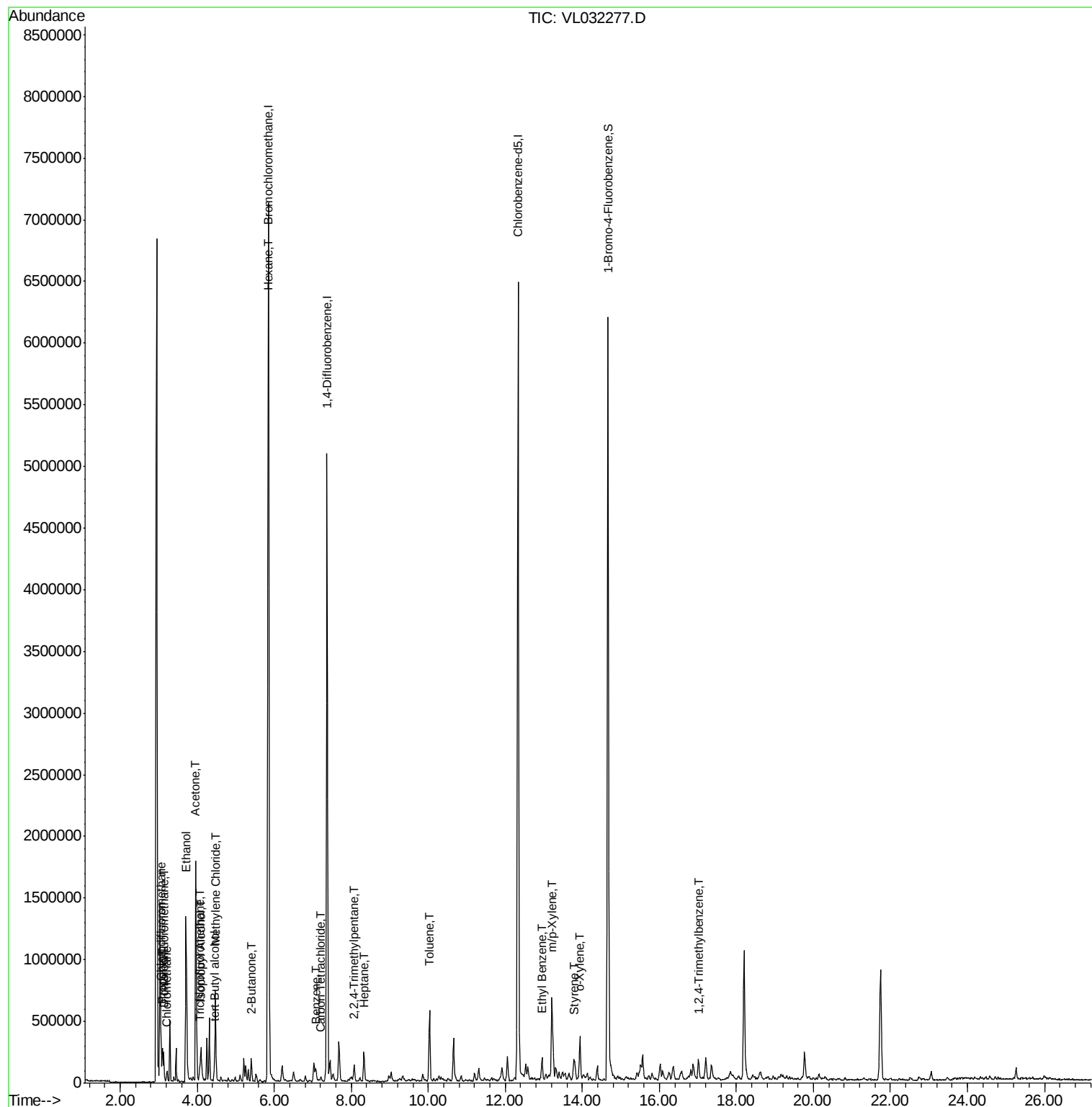
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032277.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

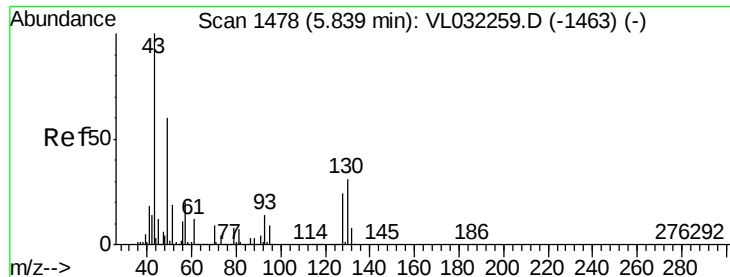
Instrument :
MSVOA_L
ClientSampleId :
B-8

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Quant Time: Jul 19 04:29:38 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

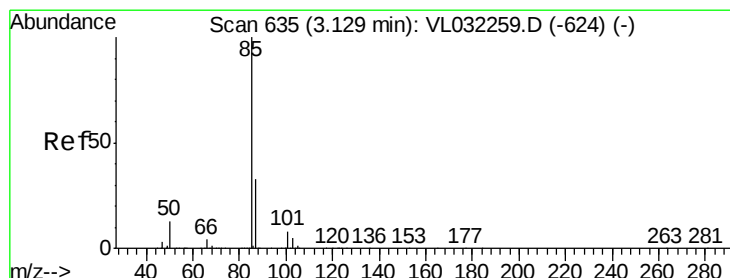
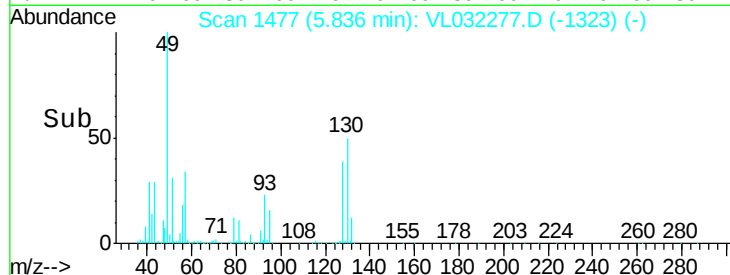
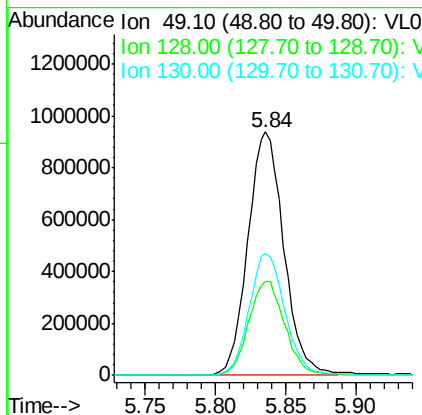
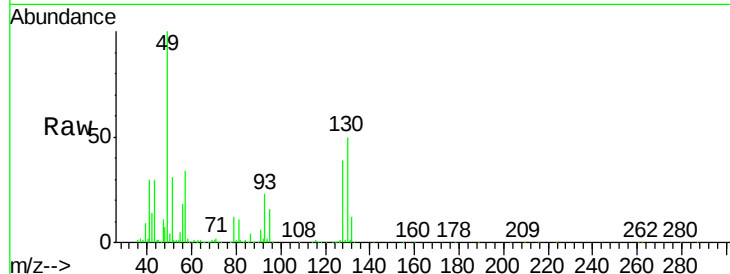
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Instrument :
 MSVOA_L
 ClientSampled :
 B-8

Tot Ion: 49 Resp: 1669603
 Ion Ratio Lower Upper
 49 100
 128 39.5 20.1 60.2
 130 50.9 25.9 77.6

Manual Integrations
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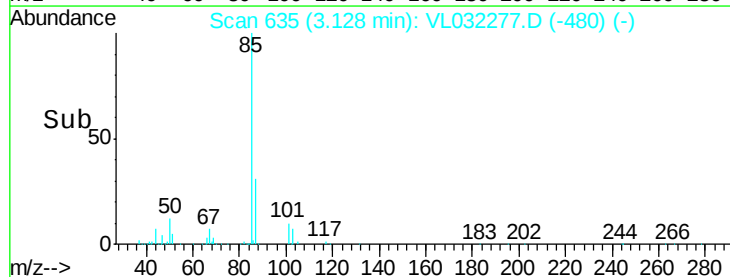
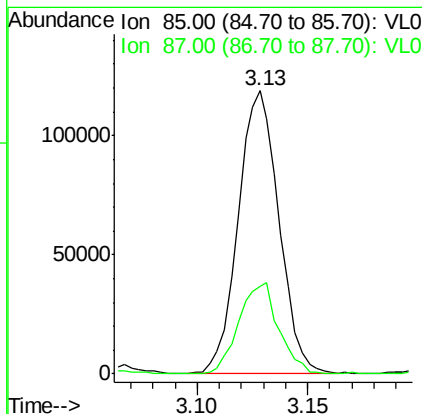
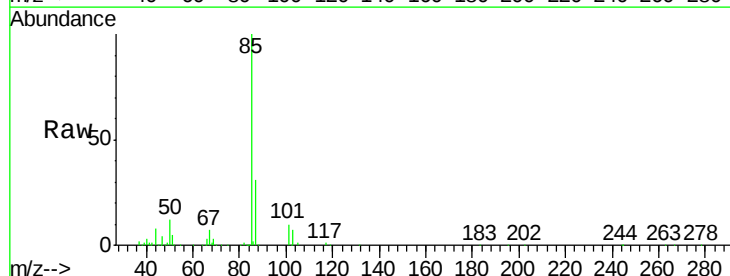
MMDadoda
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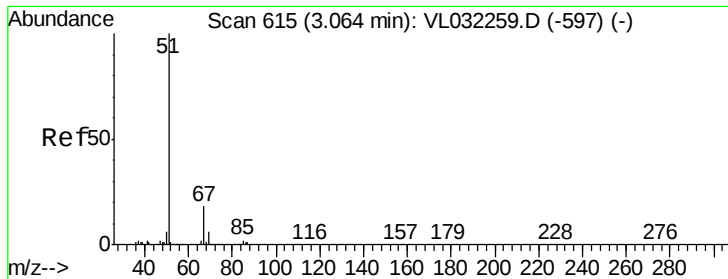


#2

Dichlorodifluoromethane
 Concen: 0.54 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Tgt Ion: 85 Resp: 152720
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.2 39.2





#3

Chlorodifluoromethane

Concen: 1.25 ppbv m

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

Tot Ion: 51 Resp: 234051

Ion Ratio Lower Upper

51 100

67 20.1 14.2 21.4

Instrument :

MSVOA_L

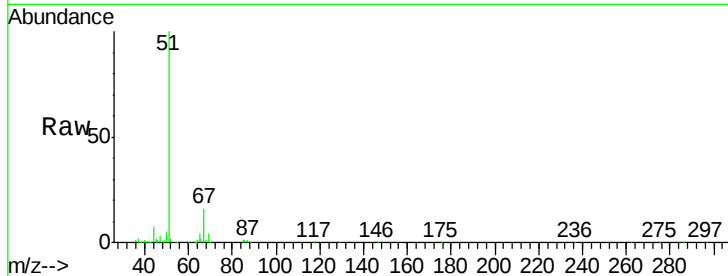
ClientSampled :

B-8

Manual Integrations
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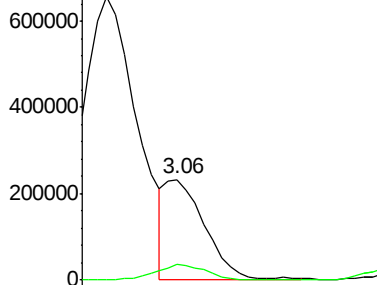
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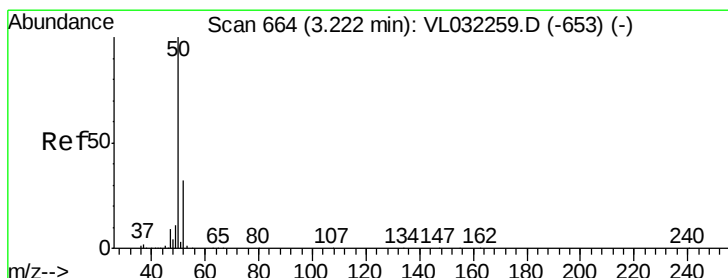
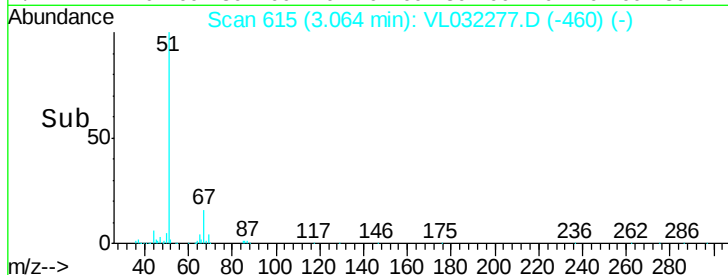


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.55 ppbv

RT: 3.22 min Scan# 665

Delta R.T. 0.00 min

Lab File: VL032277.D

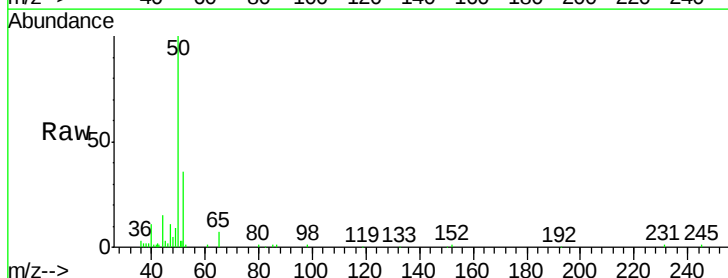
Acq: 19 Jul 2018 1:49

Tgt Ion: 50 Resp: 60419

Ion Ratio Lower Upper

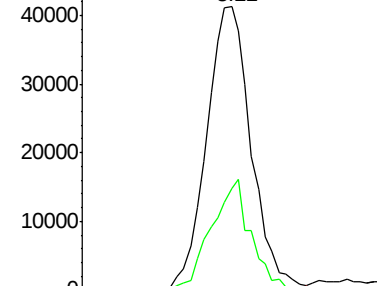
50 100

52 35.8 25.3 37.9

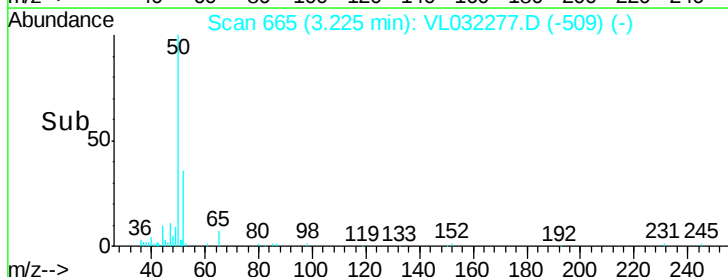


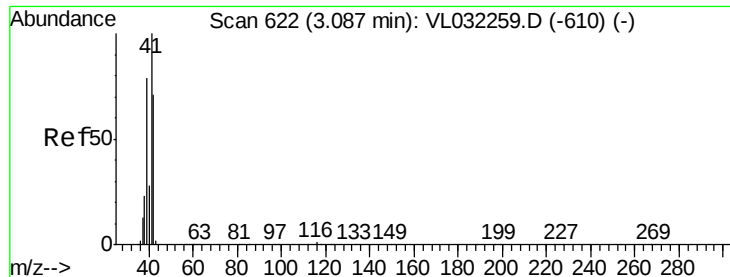
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 0.63 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.01 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 51692

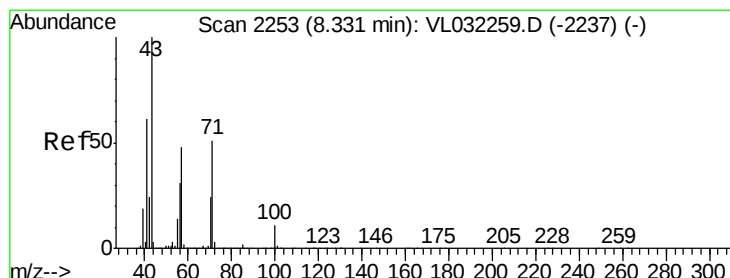
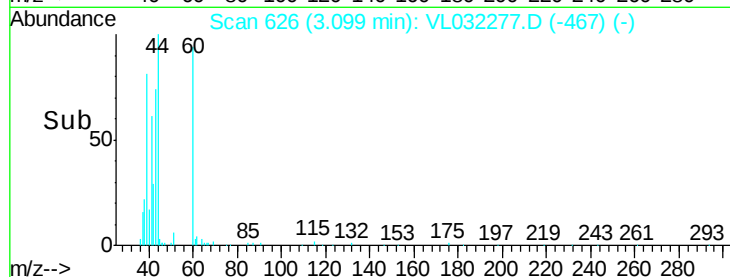
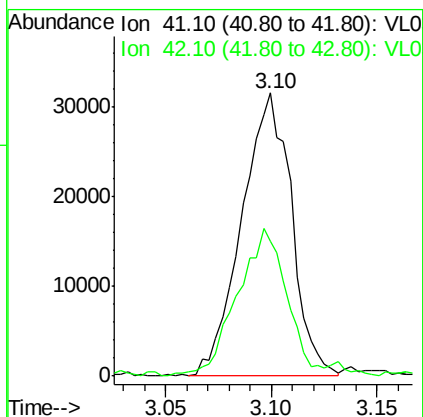
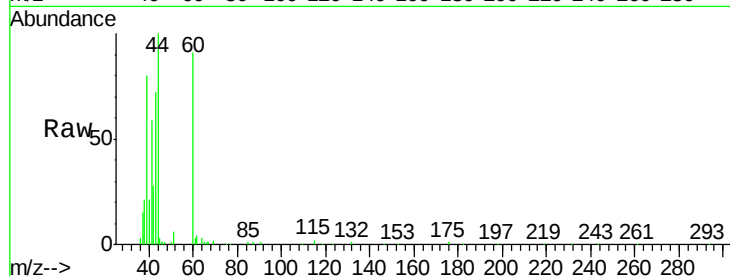
Ion Ratio Lower Upper

41 100

42 55.5 56.2 84.4#

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#10

Heptane

Concen: 0.34 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VL032277.D

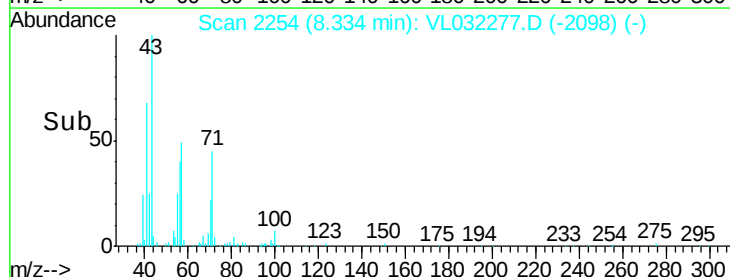
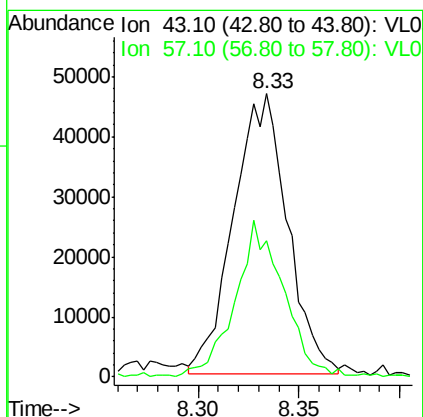
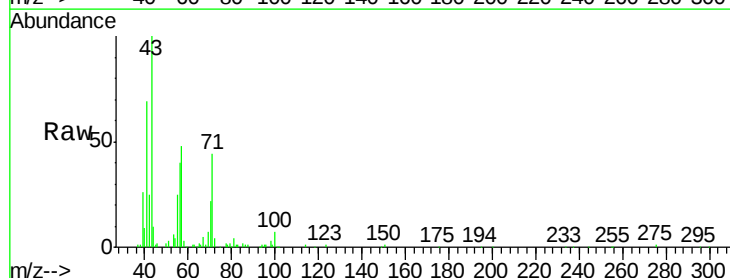
Acq: 19 Jul 2018 1:49

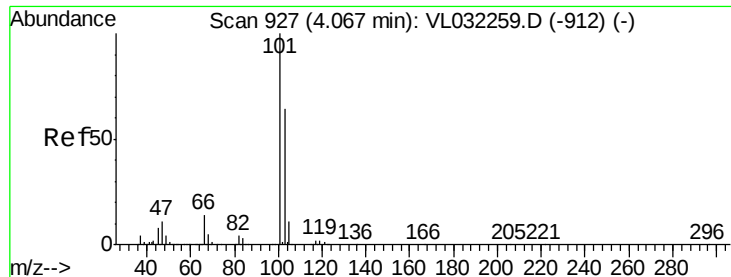
Tgt Ion: 43 Resp: 87657

Ion Ratio Lower Upper

43 100

57 50.4 39.9 59.9





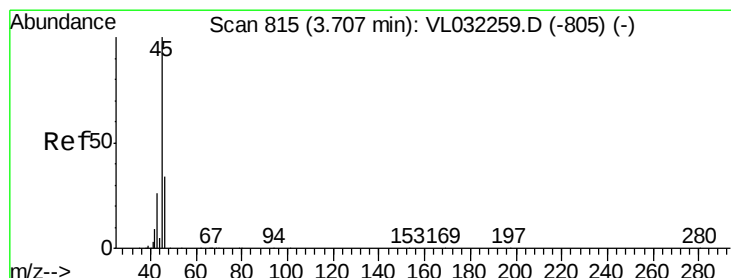
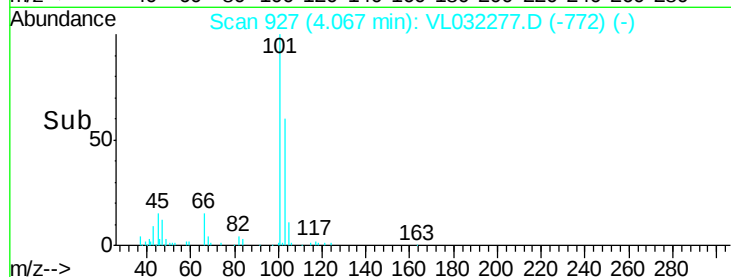
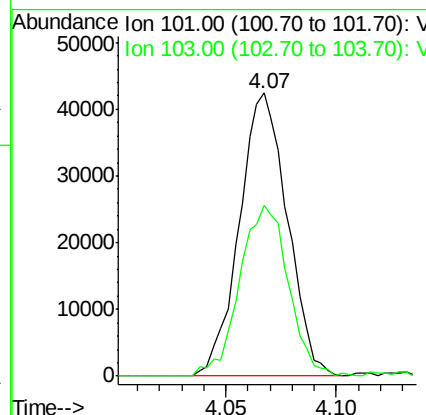
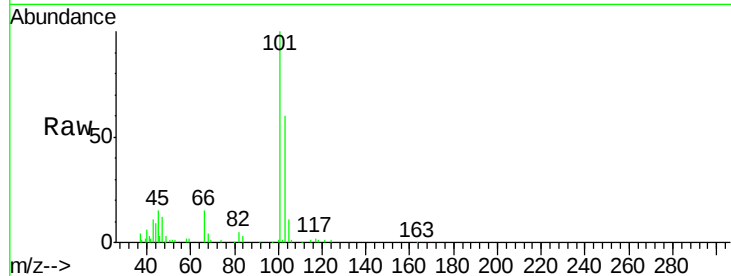
#11
Trichlorofluoromethane
Concen: 0.29 ppbv
RT: 4.07 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL032277.D
Acq: 19 Jul 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
B-8

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.0	51.5	77.3

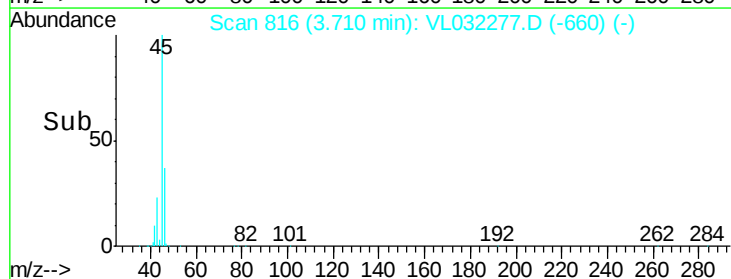
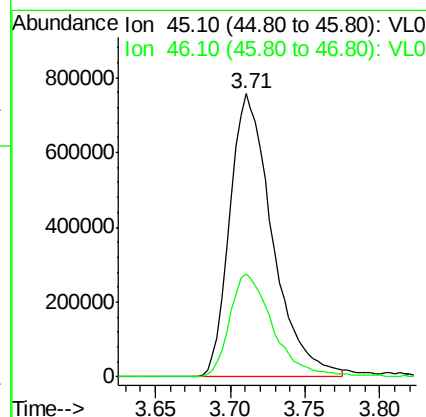
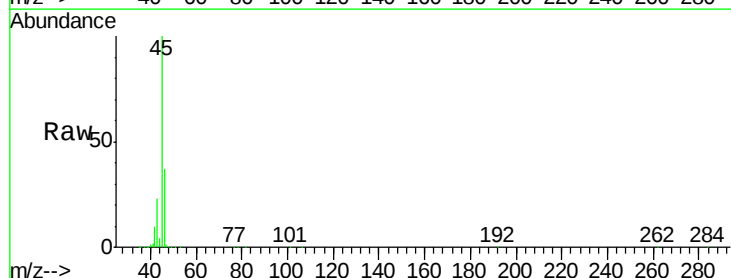
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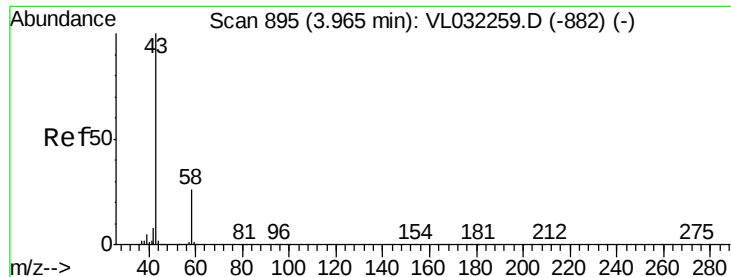
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#13
Ethanol
Concen: 64.12 ppbv
RT: 3.71 min Scan# 816
Delta R.T. 0.00 min
Lab File: VL032277.D
Acq: 19 Jul 2018 1:49

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.6	15.2	60.8





#15

Acetone

Concen: 10.44 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

Instrument :

MSVOA_L

ClientSampled :

B-8

Tot Ion: 43 Resp: 1824535

Ion Ratio Lower Upper

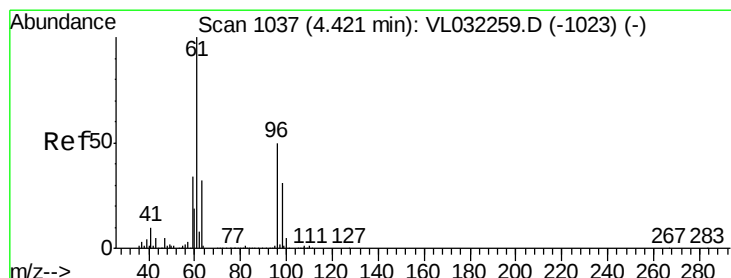
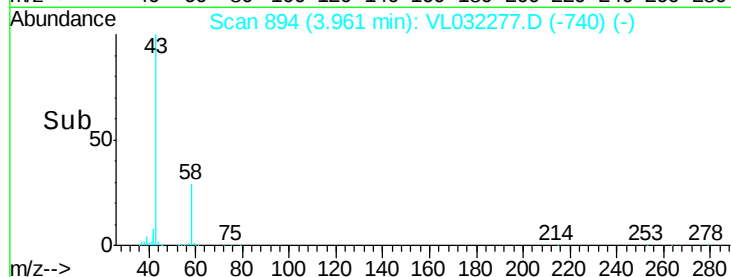
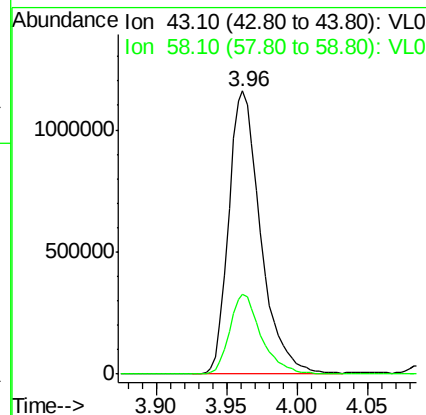
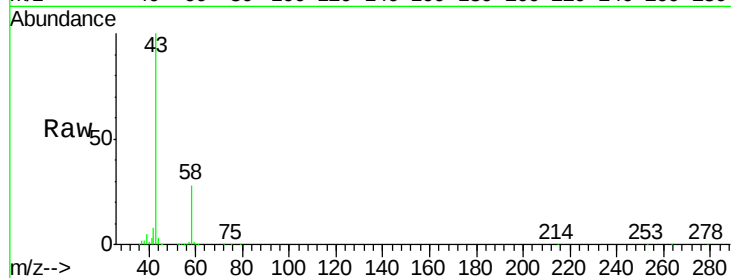
43 100

58 28.2 21.8 32.6

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 0.39 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. 0.02 min

Lab File: VL032277.D

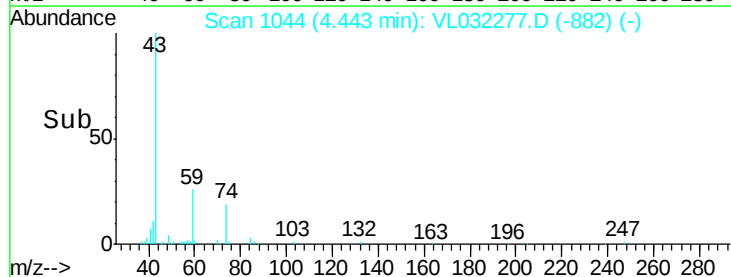
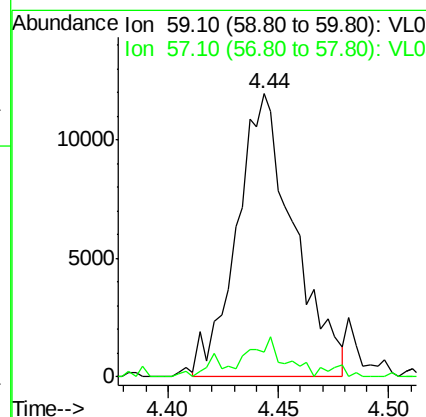
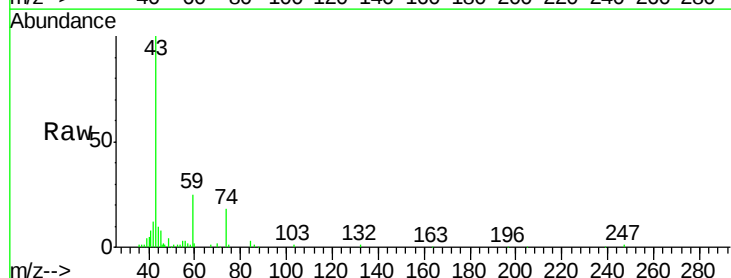
Acq: 19 Jul 2018 1:49

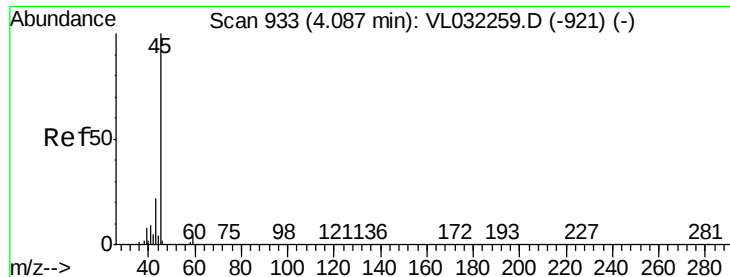
Tgt Ion: 59 Resp: 21432

Ion Ratio Lower Upper

59 100

57 12.4 8.2 12.4#





#19

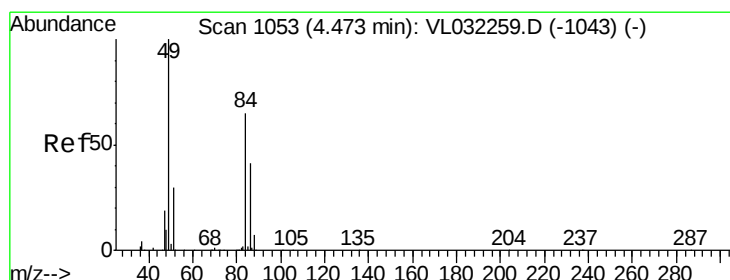
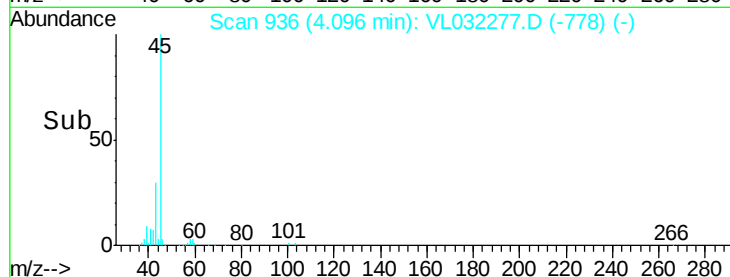
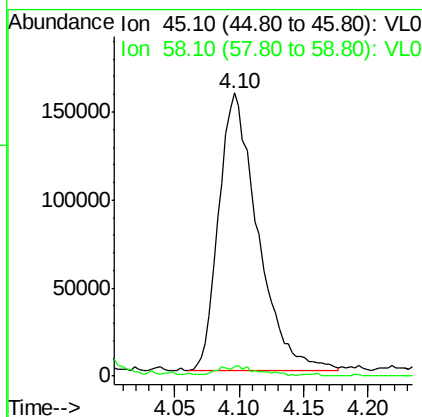
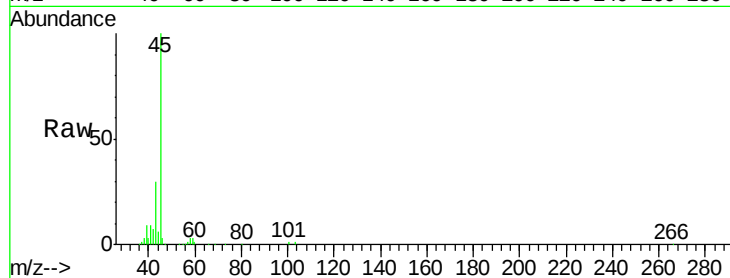
Isopropyl Alcohol
 Concen: 2.81 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
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Tot Ion	45	Resp	331780
Ion Ratio	100	Lower	Upper
45	100		
58	154.7	1.5	2.3#

Manual Integrations
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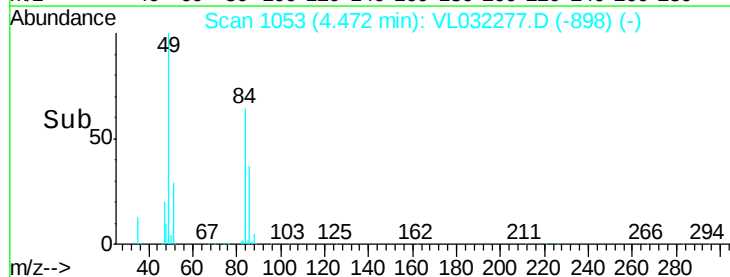
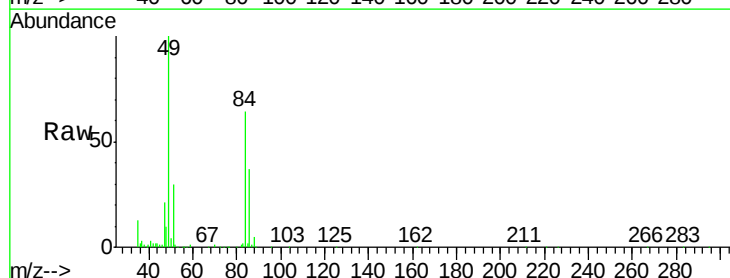
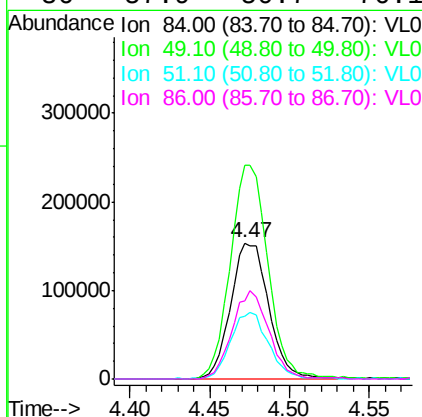
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 7/20/2018 2:53:23 PM

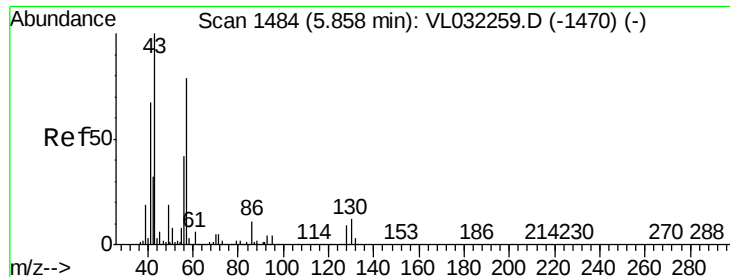


#20

Methylene Chloride
 Concen: 3.69 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Tgt Ion	84	Resp	248362
Ion Ratio	100	Lower	Upper
84	100		
49	157.3	122.4	183.6
51	46.3	36.8	55.2
86	57.9	50.7	76.1





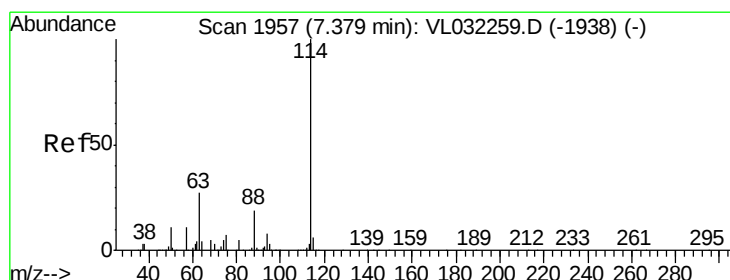
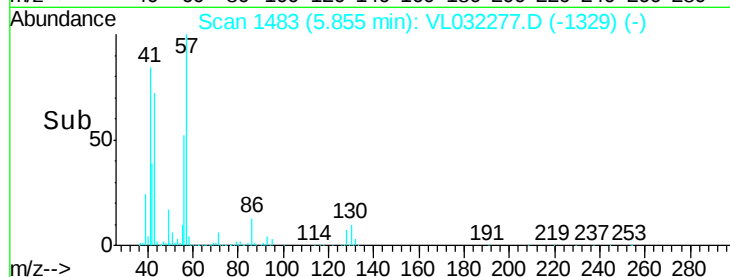
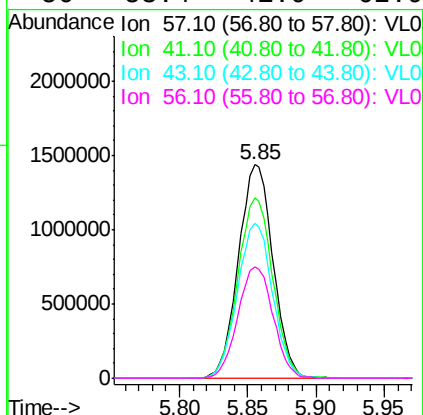
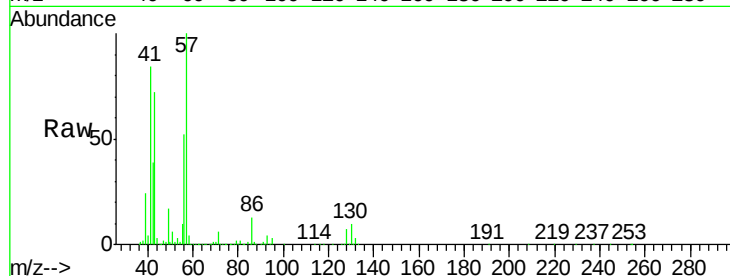
#26
Hexane
Concen: 14.47 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032277.D
Acq: 19 Jul 2018 1:49

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion	57	Resp	2529596
Ion	Ratio	Lower	Upper
57	100		
41	85.9	67.9	101.9
43	74.1	175.9	263.9#
56	53.4	41.9	62.9

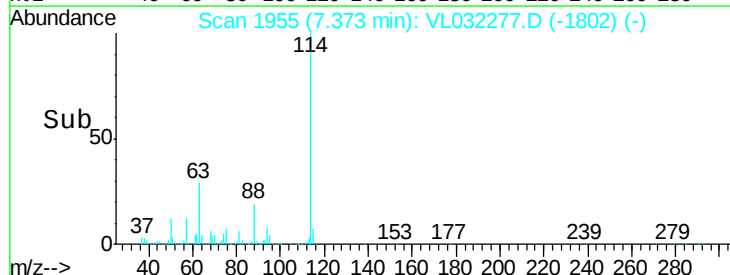
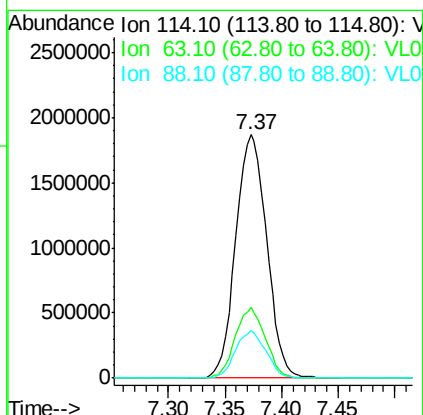
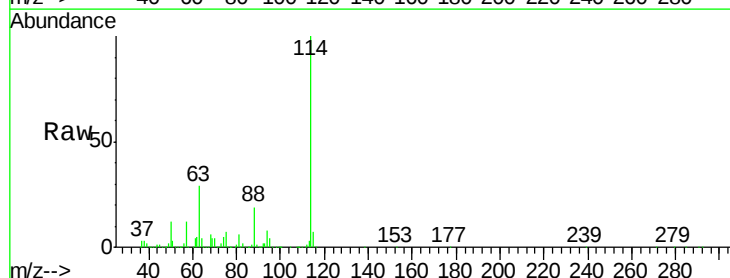
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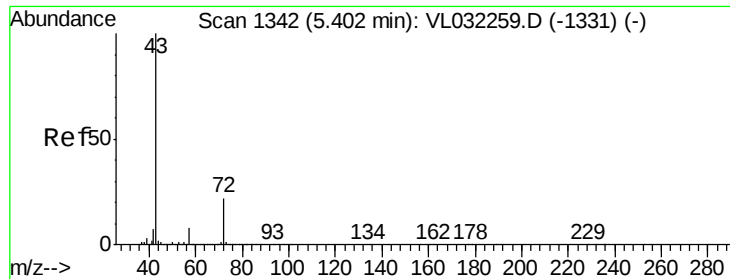
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032277.D
Acq: 19 Jul 2018 1:49

Tgt Ion	114	Resp	3572265
Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.6	33.8
88	19.2	15.2	22.8





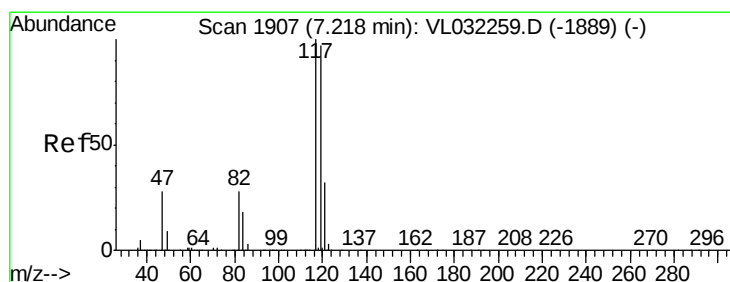
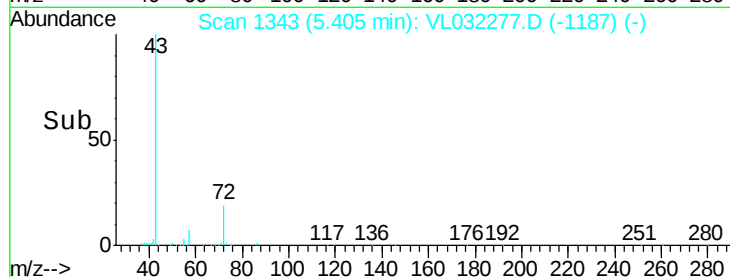
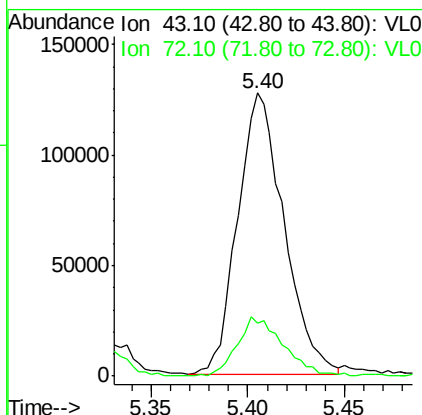
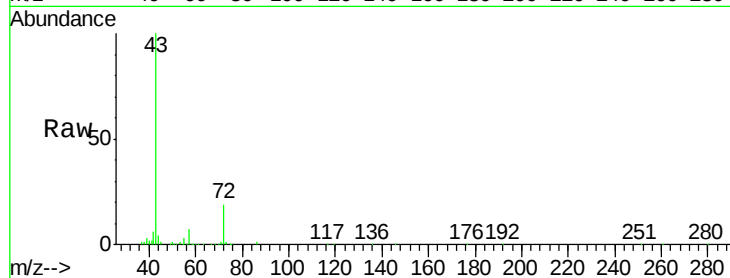
#34
2-Butanone
Concen: 0.87 ppbv
RT: 5.40 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL032277.D
Acq: 19 Jul 2018 1:49

Instrument :
MSVOA_L
ClientSampled :
B-8

Tot Ion	43	Resp	212442
Ion Ratio	100	Lower	Upper
72	21.1	17.7	26.5

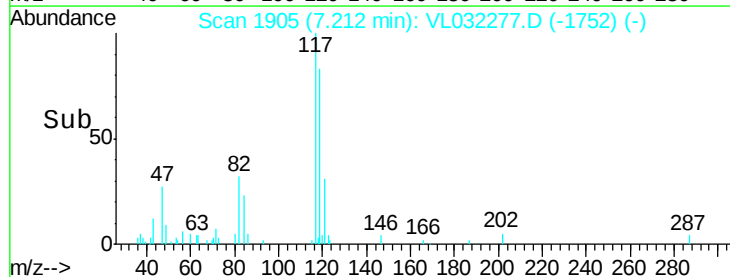
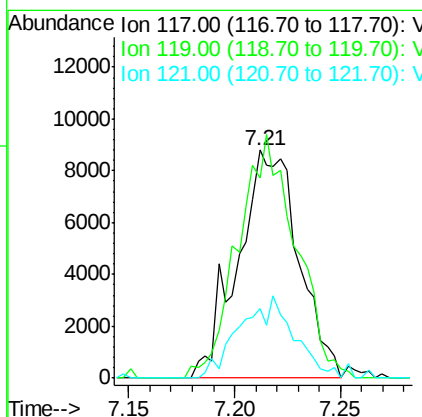
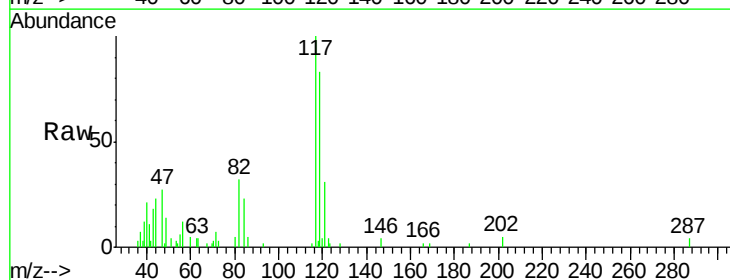
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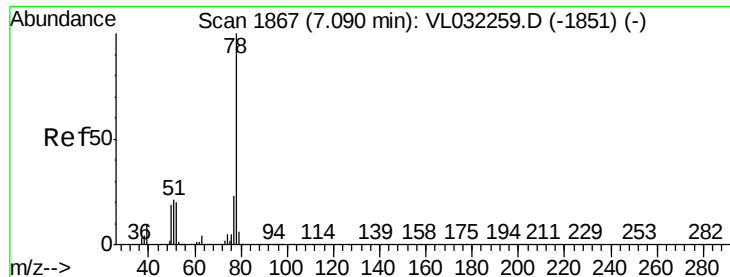
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.21 min Scan# 1905
Delta R.T. -0.01 min
Lab File: VL032277.D
Acq: 19 Jul 2018 1:49

Tgt Ion	117	Resp	17492
Ion Ratio	100	Lower	Upper
119	83.5	77.4	116.0
121	30.7	25.4	38.2





#36

Benzene

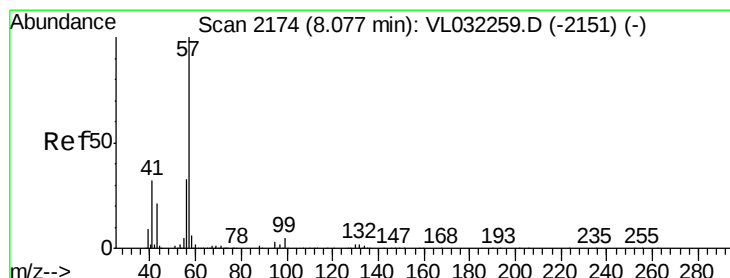
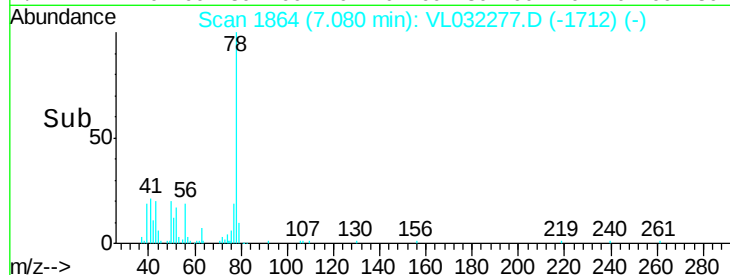
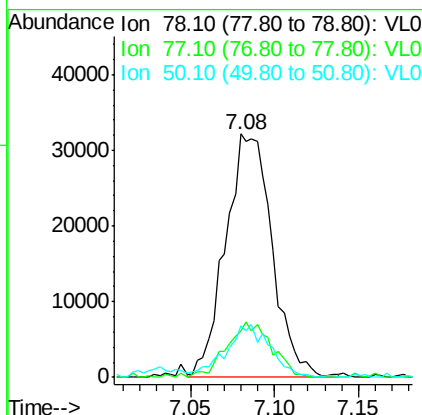
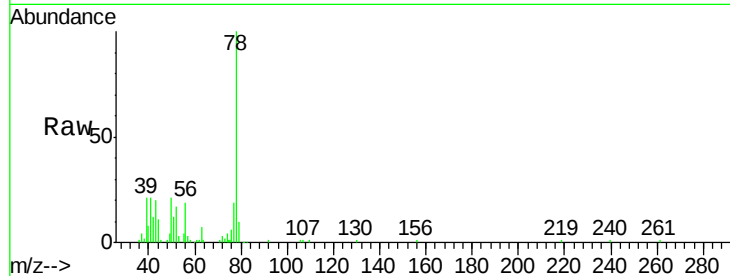
Concen: 0.18 ppbv m
 RT: 7.08 min Scan# 1864
 Delta R.T. -0.01 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 B-8

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.6	27.8
50	21.0	15.0	22.6

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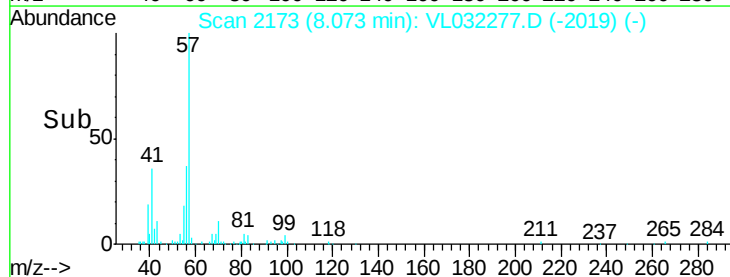
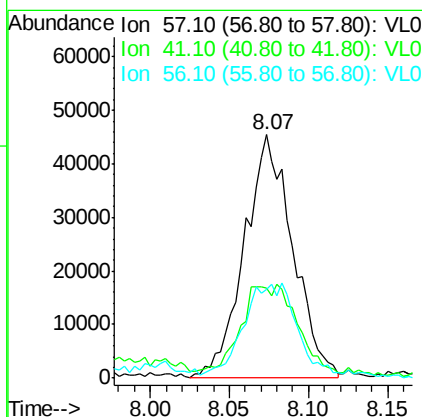
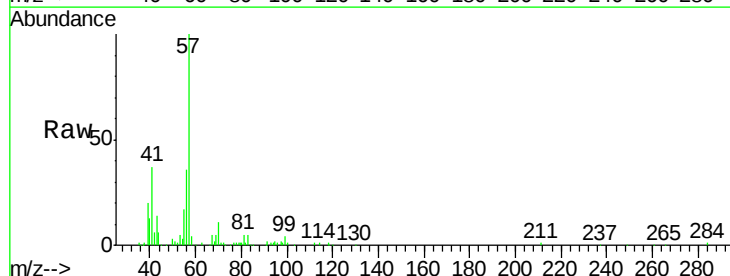


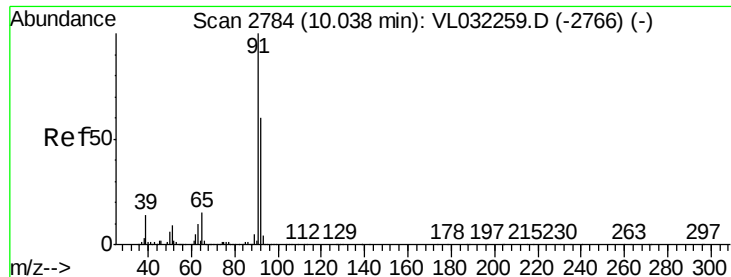
#44

2,2,4-Trimethylpentane

Concen: 0.16 ppbv m
 RT: 8.07 min Scan# 2173
 Delta R.T. -0.00 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Tgt Ion	Ratio	Lower	Upper
57	100		
41	44.6	24.4	36.6#
56	45.0	25.7	38.5#





#53

Toluene

Concen: 0.85 ppbv

RT: 10.03 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

Instrument :

MSVOA_L

Client Sampled :

B-8

Tot Ion: 91 Resp: 361269

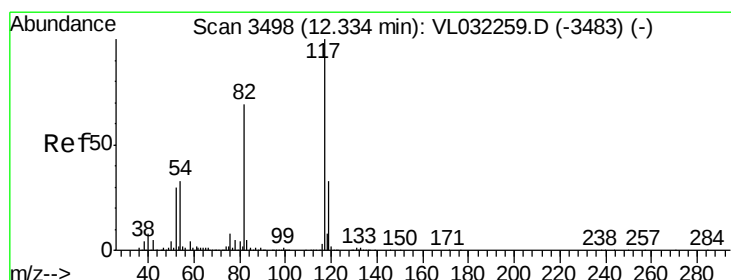
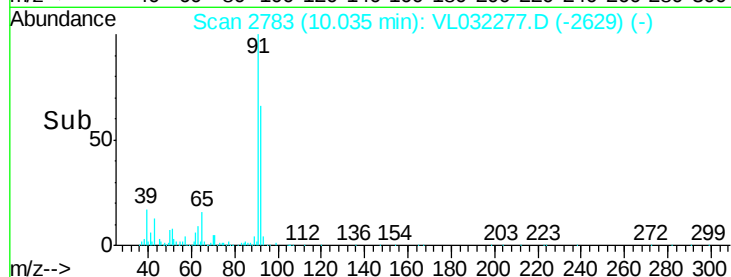
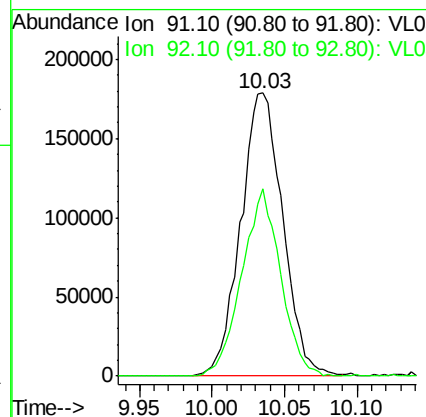
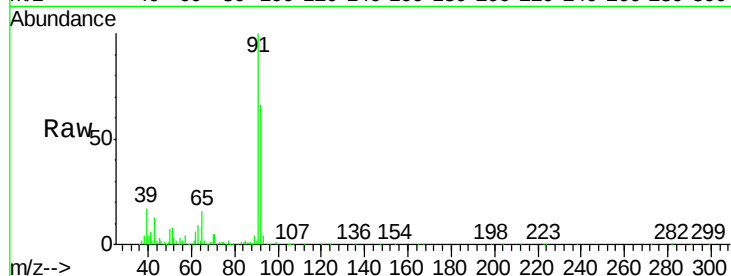
Ion Ratio Lower Upper

91 100

92 61.3 48.6 72.8

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3497

Delta R.T. -0.00 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

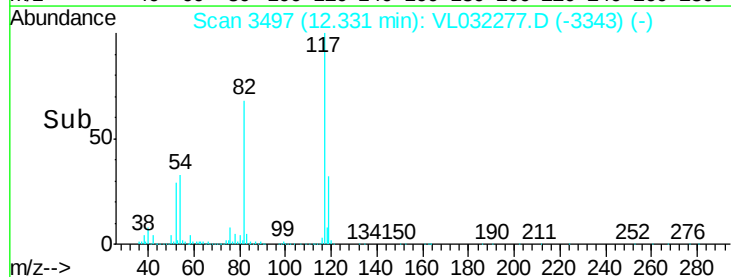
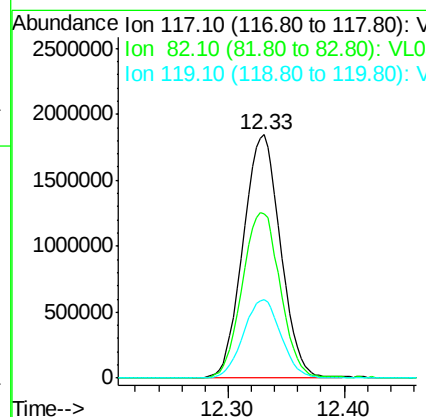
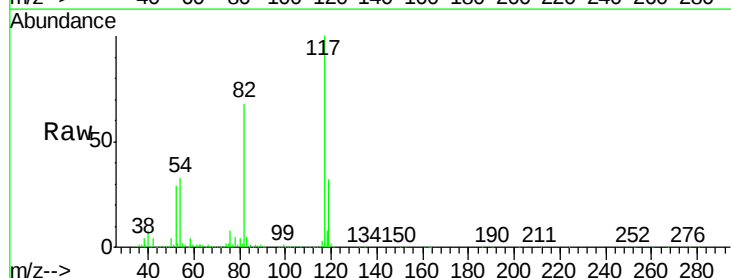
Tgt Ion: 117 Resp: 4134095

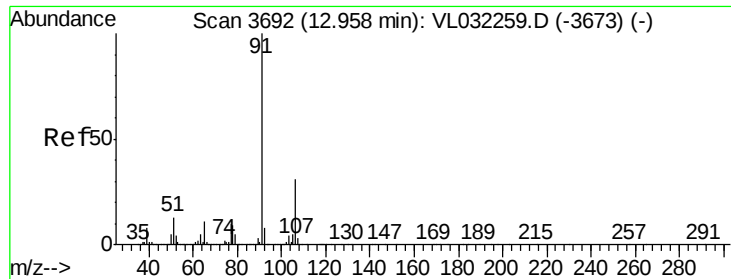
Ion Ratio Lower Upper

117 100

82 70.1 53.9 80.9

119 32.7 25.5 38.3





#58

Ethyl Benzene

Concen: 0.24 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

Instrument :

MSVOA_L

ClientSampled :

B-8

Tot Ion: 91 Resp: 141937

Ion Ratio Lower Upper

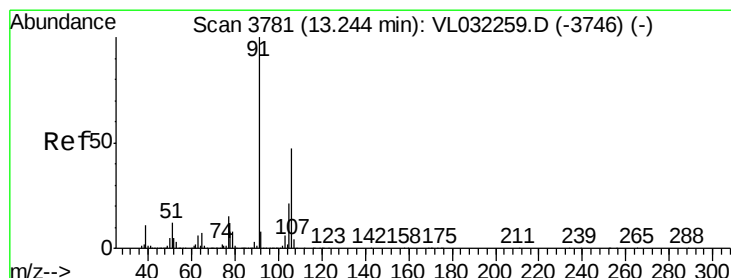
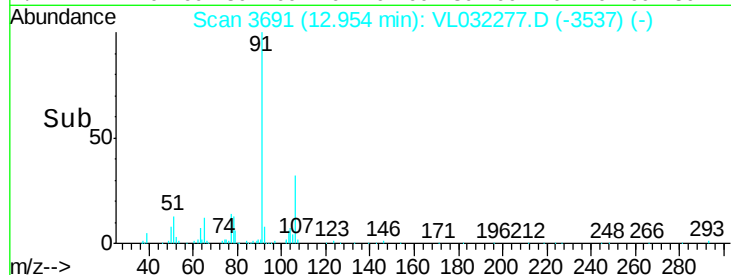
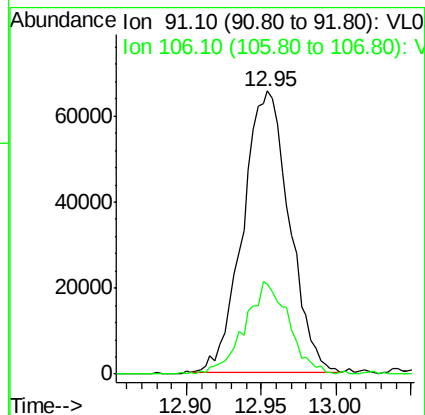
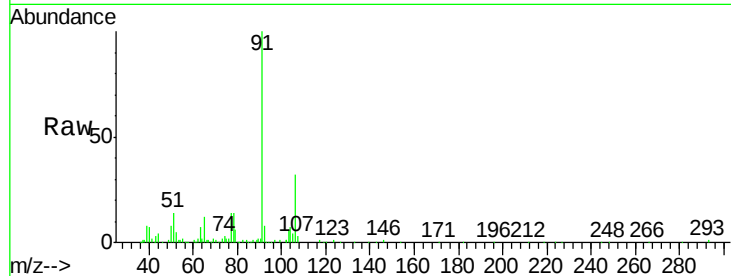
91 100

106 31.6 24.5 36.7

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#59

m/p-Xylene

Concen: 1.31 ppbv

RT: 13.21 min Scan# 3771

Delta R.T. -0.03 min

Lab File: VL032277.D

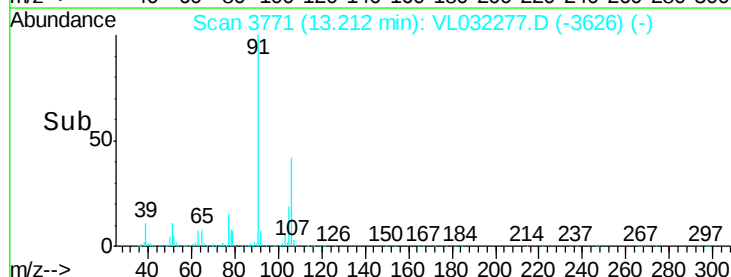
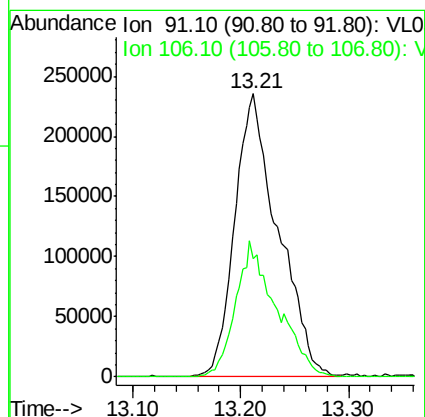
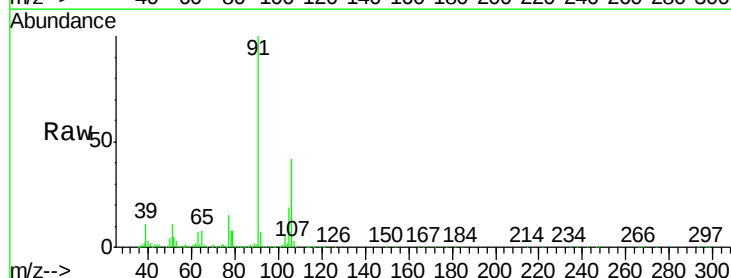
Acq: 19 Jul 2018 1:49

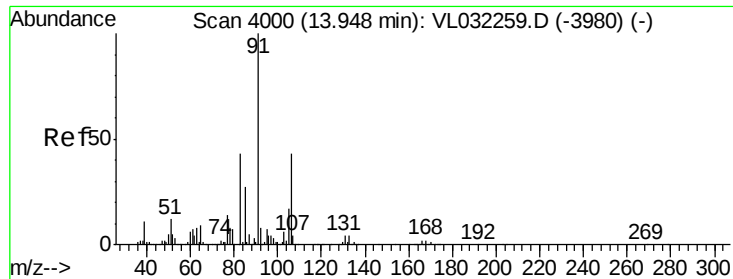
Tgt Ion: 91 Resp: 652098

Ion Ratio Lower Upper

91 100

106 45.8 36.2 54.2





#60

o-Xylene

Concen: 0.52 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

Instrument :

MSVOA_L

ClientSampled :

B-8

Tot Ion: 91 Resp: 258394

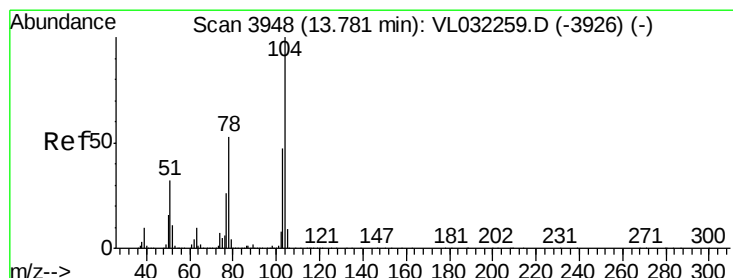
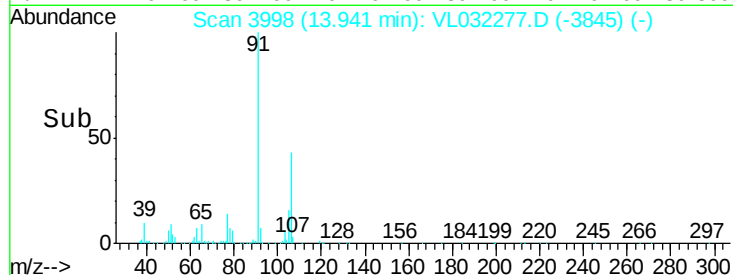
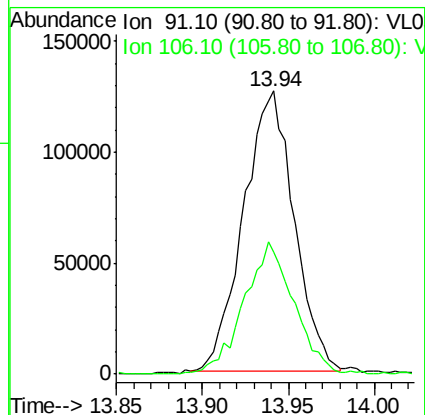
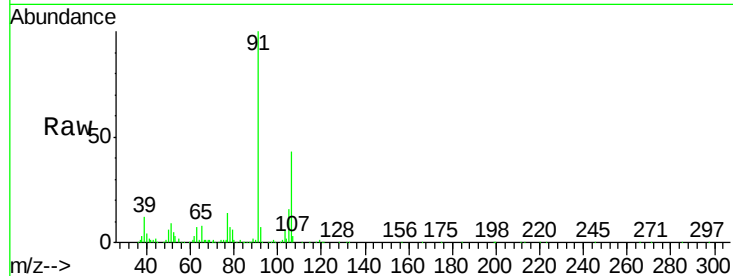
Ion Ratio Lower Upper

91 100

106 46.8 21.7 65.1

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#61

Styrene

Concen: 0.18 ppbv m

RT: 13.78 min Scan# 3947

Delta R.T. -0.00 min

Lab File: VL032277.D

Acq: 19 Jul 2018 1:49

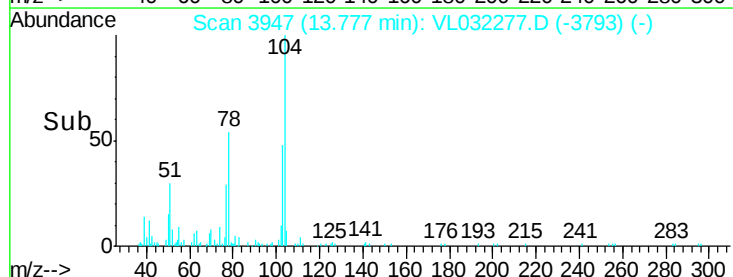
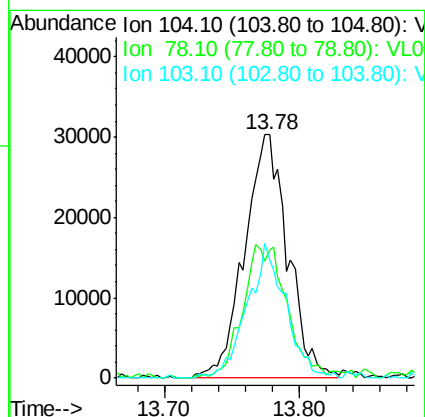
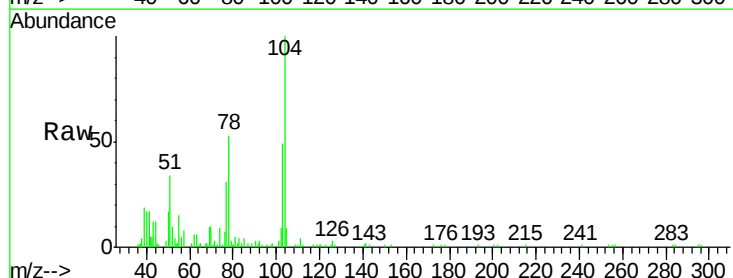
Tgt Ion: 104 Resp: 67465

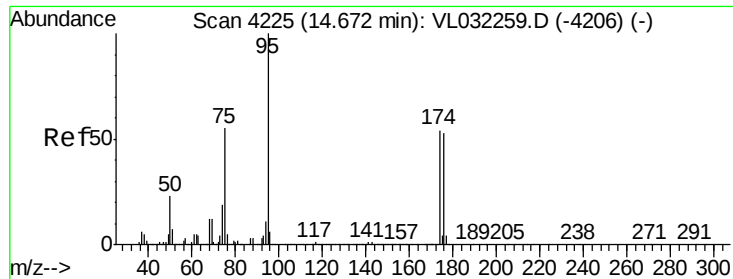
Ion Ratio Lower Upper

104 100

78 58.1 43.2 64.8

103 50.1 37.8 56.6





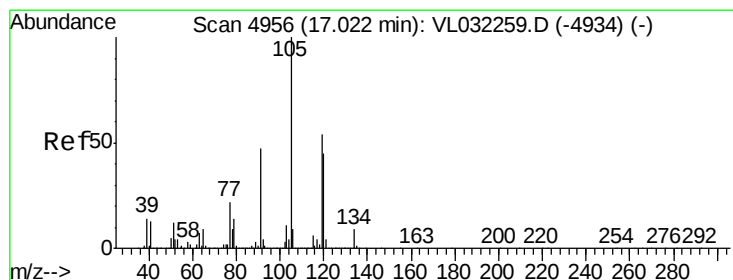
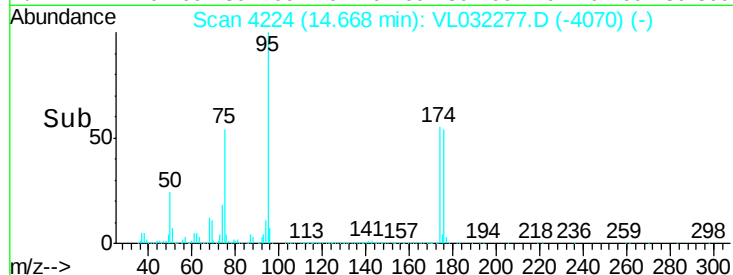
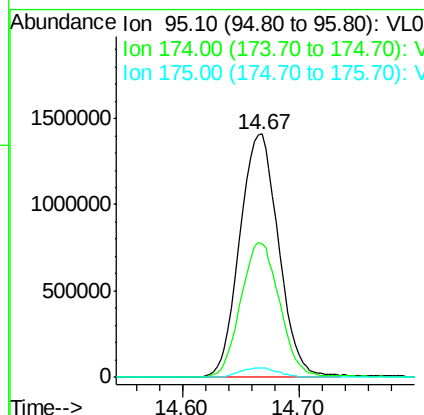
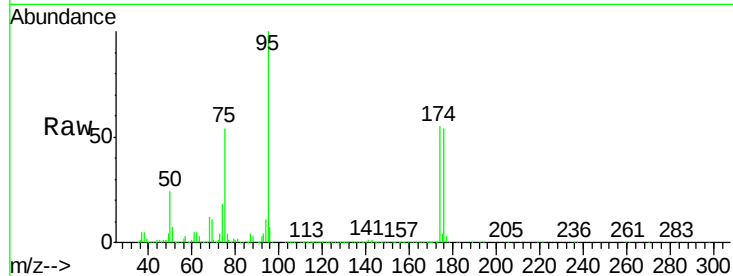
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.81 ppbv
 RT: 14.67 min Scan# 4224
 Delta R.T. -0.00 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Instrument :
 MSVOA_L
 ClientSampled :
 B-8

Tot Ion: 95 Resp: 3287190
 Ion Ratio Lower Upper
 95 100
 174 55.9 44.3 66.5
 175 4.1 3.3 4.9

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.17 ppbv
 RT: 17.01 min Scan# 4953
 Delta R.T. -0.01 min
 Lab File: VL032277.D
 Acq: 19 Jul 2018 1:49

Tgt Ion: 105 Resp: 101839
 Ion Ratio Lower Upper
 105 100
 120 38.2 35.8 53.6
 91 9.7 38.2 57.4#
 77 10.7 17.5 26.3#

