

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026192.D
 Acq On : 10 Oct 2015 1:36
 Operator : SY/MD
 Sample : G3973-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
 APPROVED

MMdadoda
 10/12/2015 1:24:44 PM

Quant Time: Oct 12 02:54:21 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 0
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.66	49	304925	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.40	114	352633	10.00	ppbv	0.07
55) Chlorobenzene-d5	14.07	117	145252	10.00	ppbv	0.30

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	16.66	95	899	0.08	ppbv	0.35	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	0.80%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	22558	0.39	ppbv	97
3) Chlorodifluoromethane	3.56	51	79010m	2.22	ppbv	
4) Chloromethane	3.75	50	3962	0.20	ppbv	91
6) Bromomethane	4.14	94	1719	0.12	ppbv	94
9) Propene	3.59	41	90433	5.53	ppbv	90
11) Trichlorofluoromethane	4.70	101	16648	0.30	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.33	101	3614	0.10	ppbv	88
13) Ethanol	4.34	45	68414	28.44	ppbv	96
15) Acetone	4.61	43	9741262	247.16	ppbv #	76
19) Isopropyl Alcohol	4.78	45	69747	4.54	ppbv #	94
23) Vinyl Acetate	6.07	43	54381772	779.58	ppbv #	15
26) Hexane	6.77	57	30623455	829.65	ppbv #	14
30) Cyclohexane	8.40	84	42492831	1208.28	ppbv #	49
34) 2-Butanone	6.38	43	16355373	833.26	ppbv #	54
35) Carbon Tetrachloride	8.24	117	1518m	0.07	ppbv	
36) Benzene	8.10	78	25813757	765.39	ppbv #	70
53) Toluene	11.83	91	170112981m	3914.16	ppbv	
58) Ethyl Benzene	14.69	91	35789533	1696.32	ppbv #	71
59) m/p-Xylene	14.97	91	46435027	2742.51	ppbv #	77
60) o-Xylene	15.69	91	12879122m	725.86	ppbv	

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

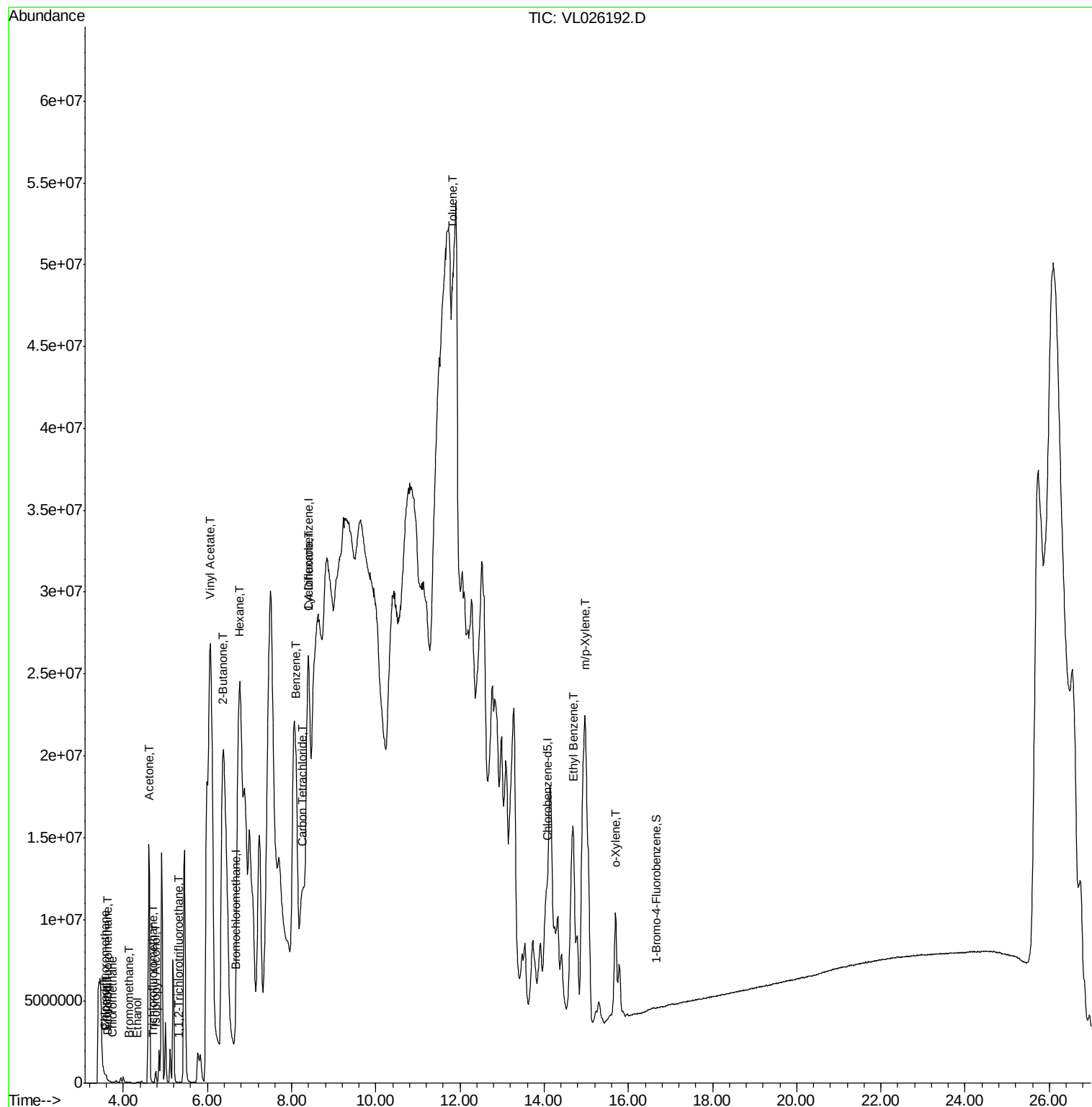
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
Data File : VL026192.D
Acq On : 10 Oct 2015 1:36
Operator : SY/MD
Sample : G3973-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

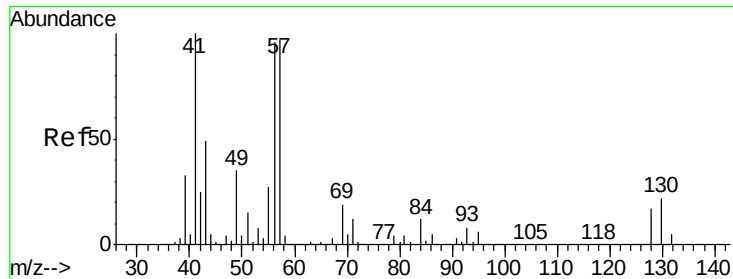
Instrument :
MSVOA_L
ClientSampleId :
SS-1

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Quant Time: Oct 12 02:54:21 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct
QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration





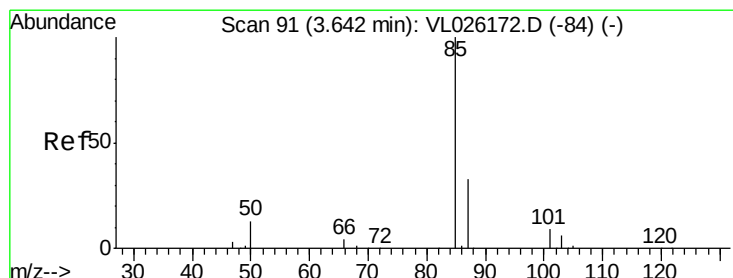
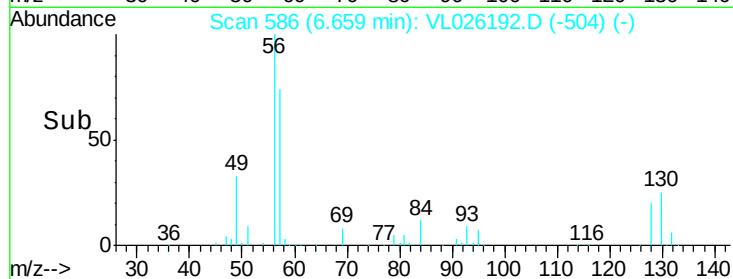
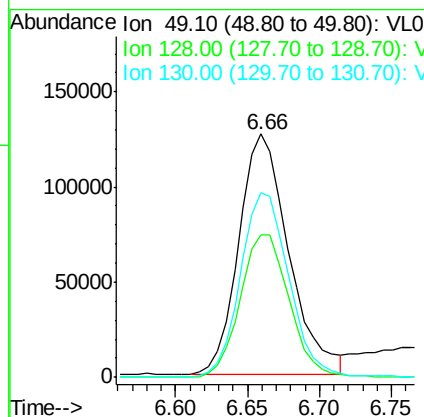
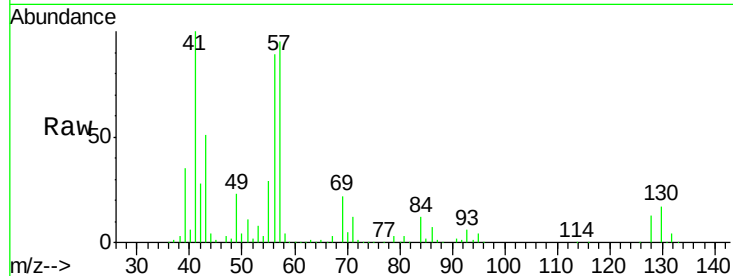
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.66 min Scan# 586
 Delta R.T. 0.00 min
 Lab File: VL026192.D
 Acq: 10 Oct 2015 1:36

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tot Ion: 49 Resp: 304925
 Ion Ratio Lower Upper
 49 100
 128 58.4 26.3 78.8
 130 74.3 34.2 102.5

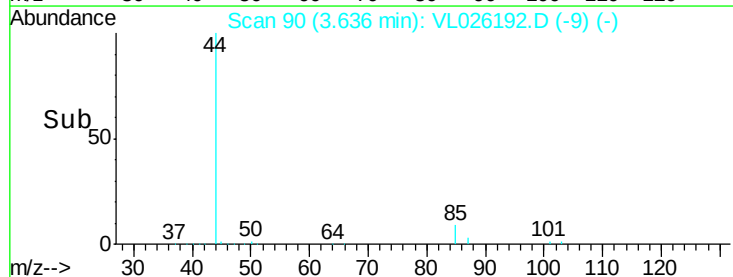
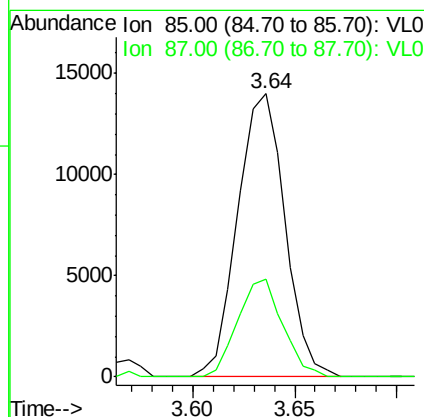
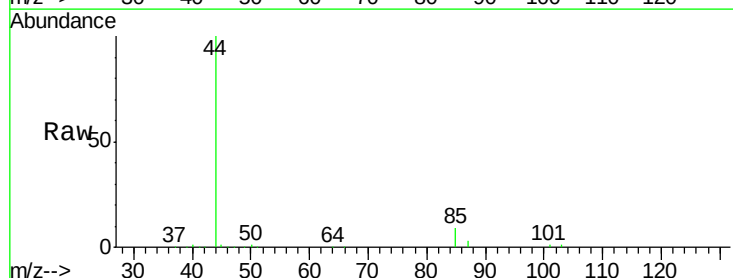
Manual Integrations
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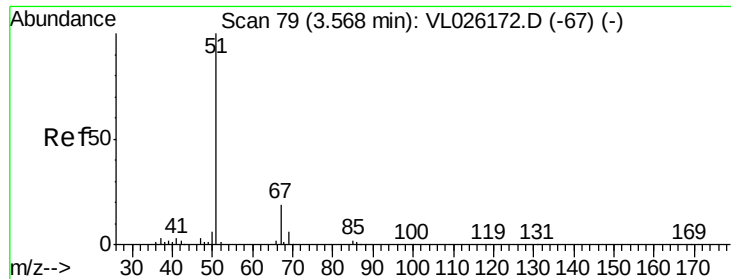
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#2
 Dichlorodifluoromethane
 Concen: 0.39 ppbv
 RT: 3.64 min Scan# 90
 Delta R.T. -0.01 min
 Lab File: VL026192.D
 Acq: 10 Oct 2015 1:36

Tgt Ion: 85 Resp: 22558
 Ion Ratio Lower Upper
 85 100
 87 34.7 26.2 39.4





#3

Chlorodifluoromethane

Concen: 2.22 ppbv m

RT: 3.56 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 51 Resp: 79010

Ion Ratio Lower Upper

51 100

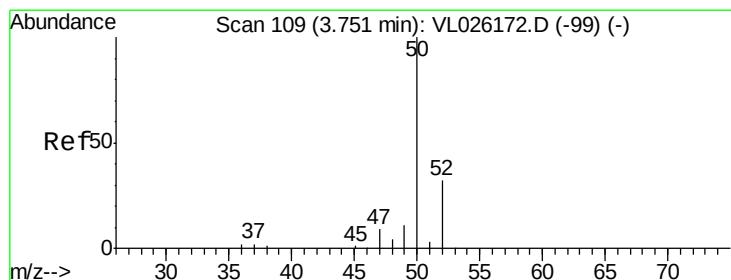
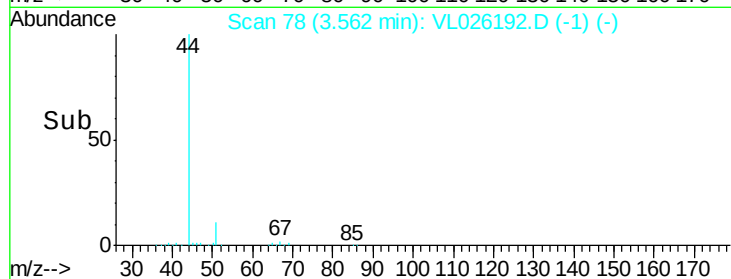
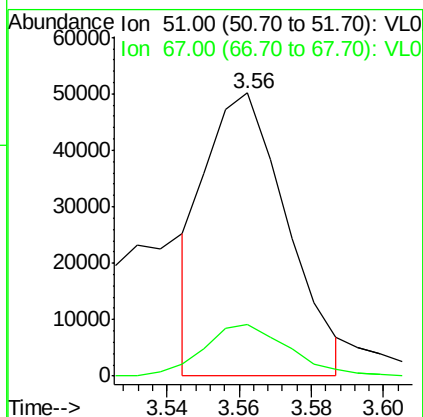
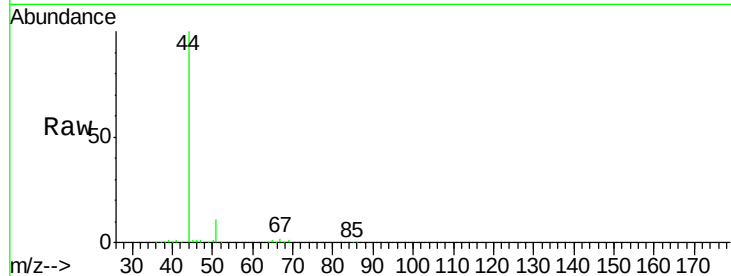
67 19.4 14.9 22.3

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#4

Chloromethane

Concen: 0.20 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL026192.D

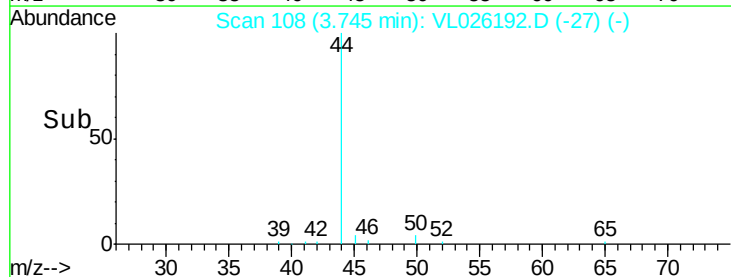
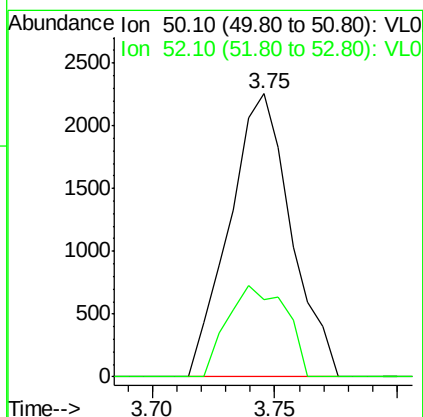
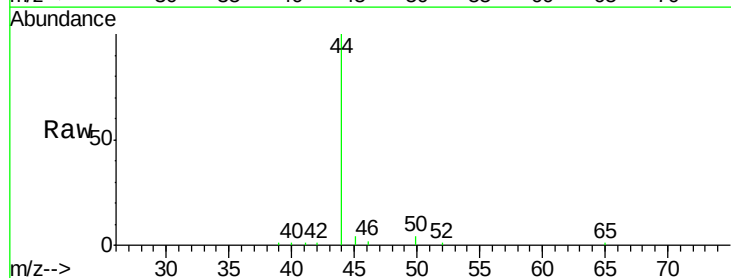
Acq: 10 Oct 2015 1:36

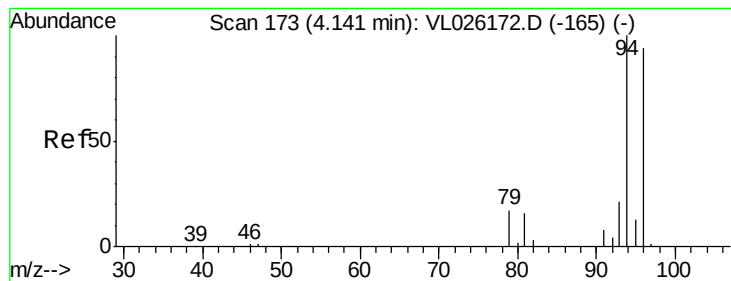
Tgt Ion: 50 Resp: 3962

Ion Ratio Lower Upper

50 100

52 27.5 25.9 38.9





#6

Bromomethane

Concen: 0.12 ppbv

RT: 4.14 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 94 Resp: 1719

Ion Ratio Lower Upper

94 100

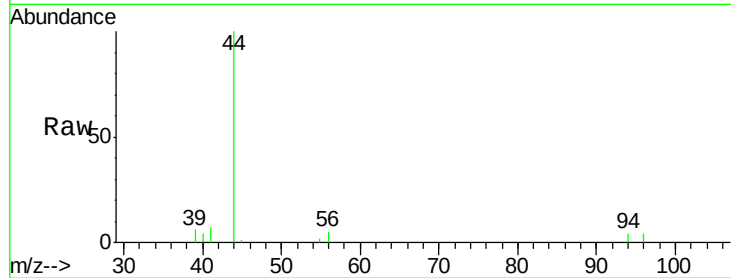
96 100.4 75.4 113.2

Manual Integrations

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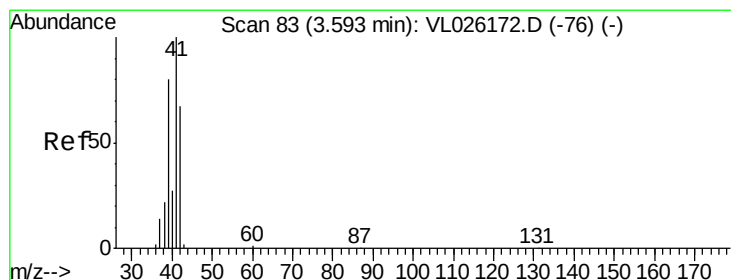
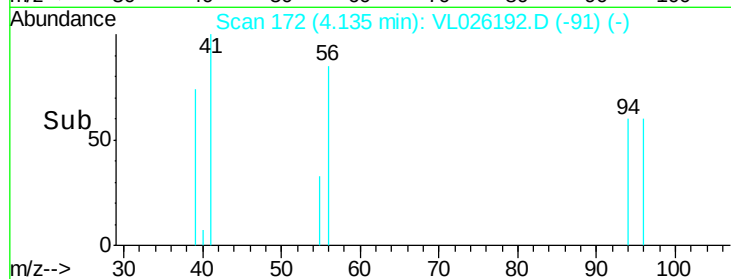
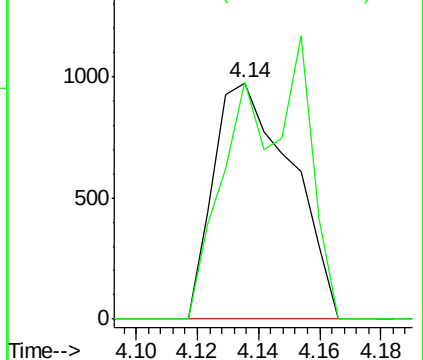
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Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#9

Propene

Concen: 5.53 ppbv

RT: 3.59 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL026192.D

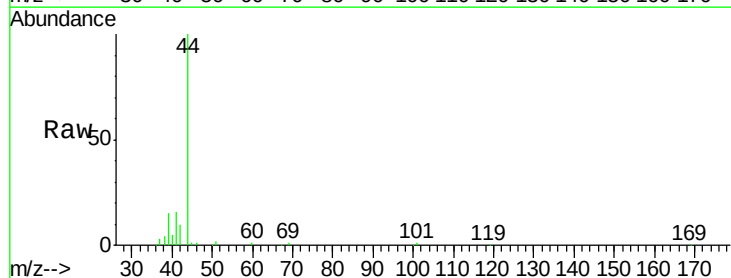
Acq: 10 Oct 2015 1:36

Tgt Ion: 41 Resp: 90433

Ion Ratio Lower Upper

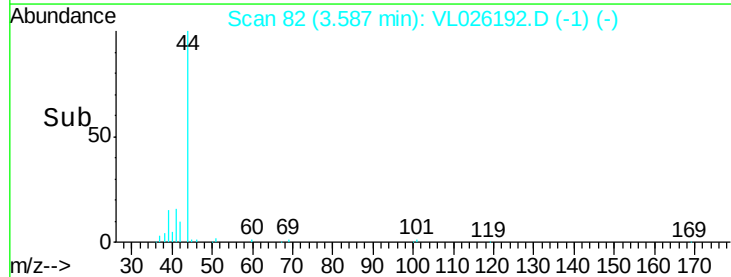
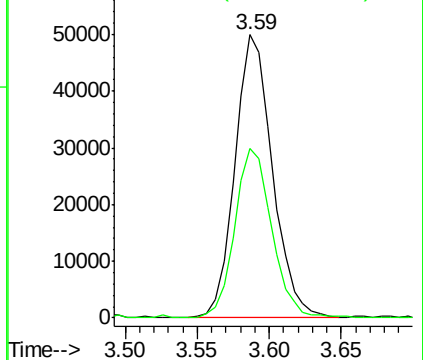
41 100

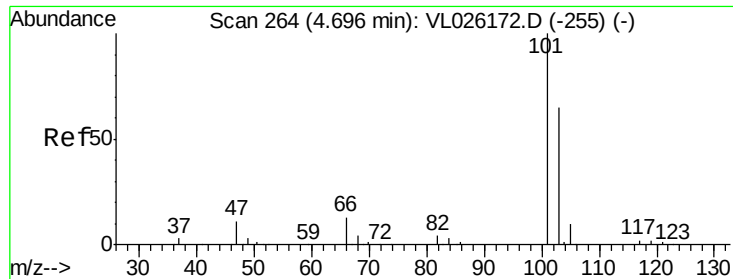
42 59.3 53.6 80.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





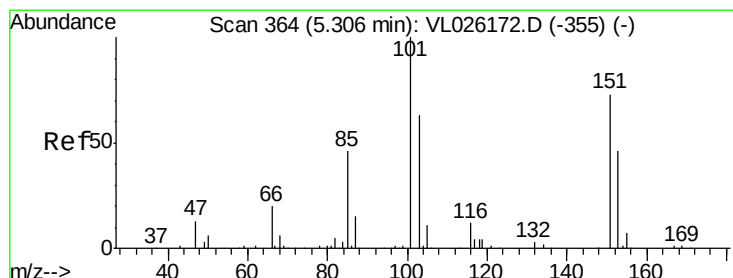
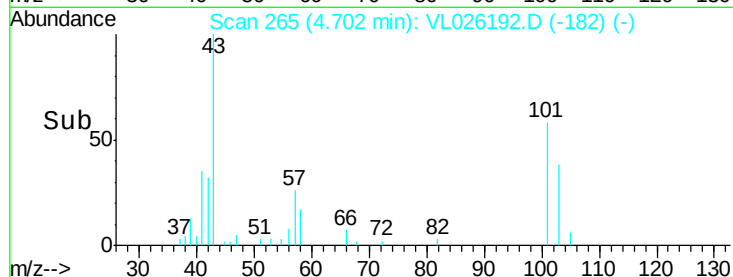
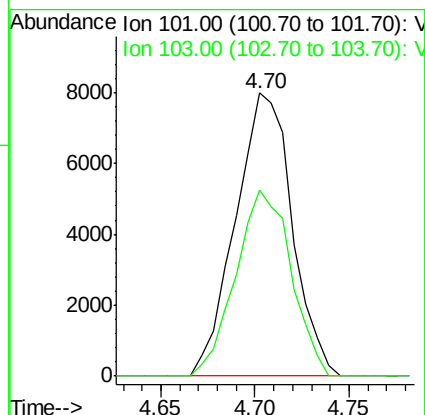
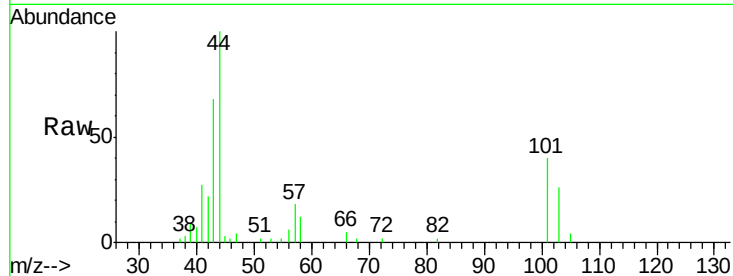
#11
 Trichlorofluoromethane
 Concen: 0.30 ppbv
 RT: 4.70 min Scan# 265
 Delta R.T. 0.01 min
 Lab File: VL026192.D
 Acq: 10 Oct 2015 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tot Ion:101 Resp: 16648
 Ion Ratio Lower Upper
 101 100
 103 65.6 51.9 77.9

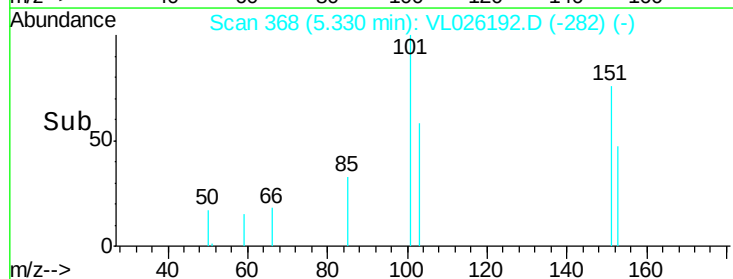
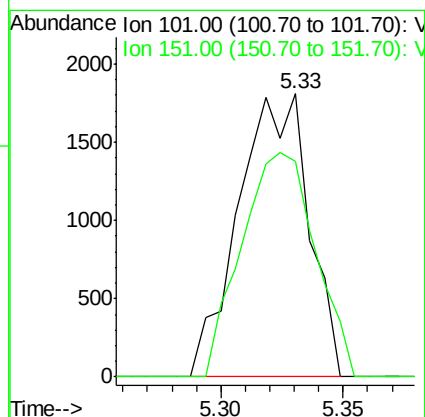
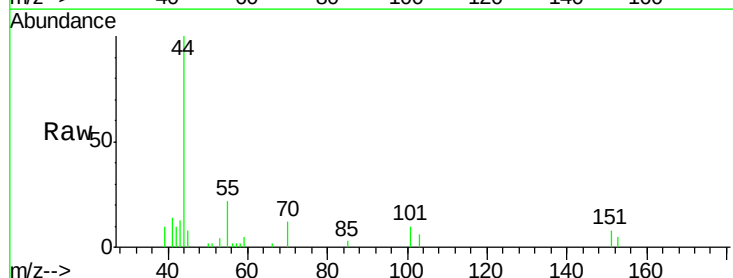
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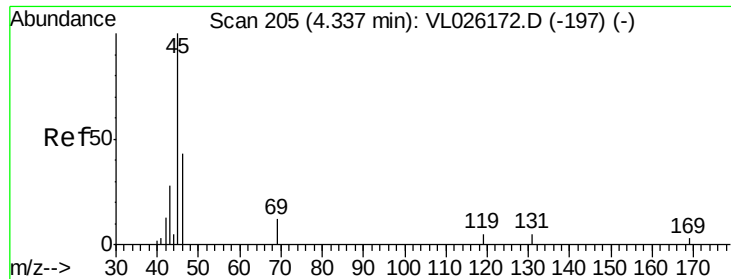
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.10 ppbv
 RT: 5.33 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VL026192.D
 Acq: 10 Oct 2015 1:36

Tgt Ion:101 Resp: 3614
 Ion Ratio Lower Upper
 101 100
 151 83.7 59.0 88.6





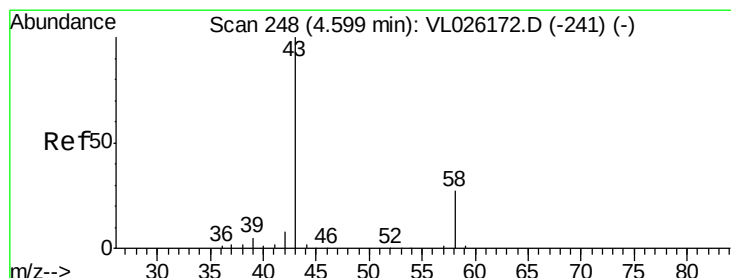
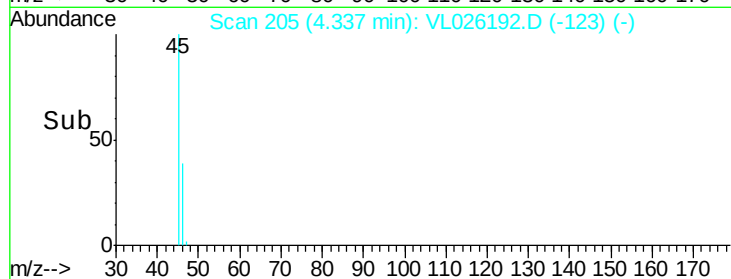
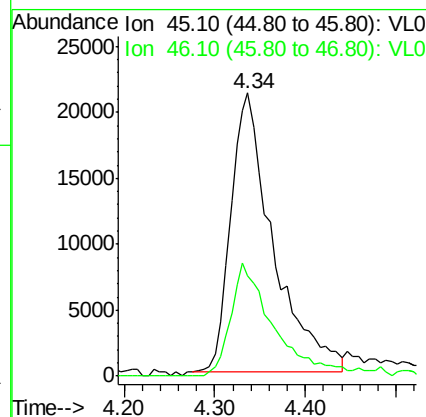
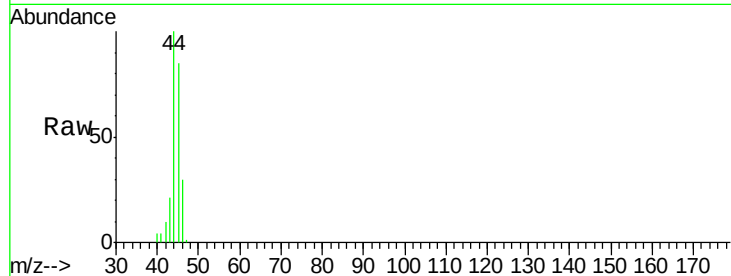
#13
Ethanol
Concen: 28.44 ppbv
RT: 4.34 min Scan# 205
Delta R.T. 0.00 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion	45	46	Ratio	Lower	Upper
Resp:	68414				
Ion	45	46	100	18.1	72.5

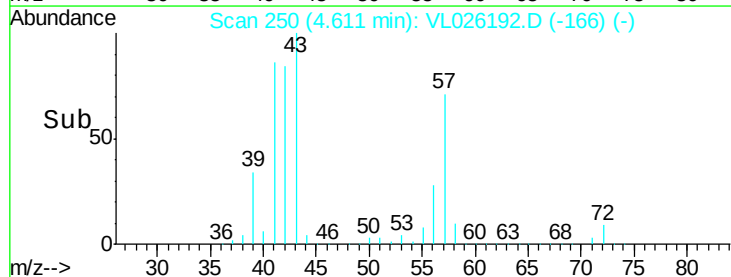
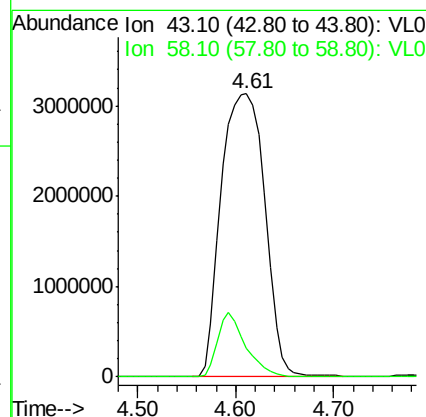
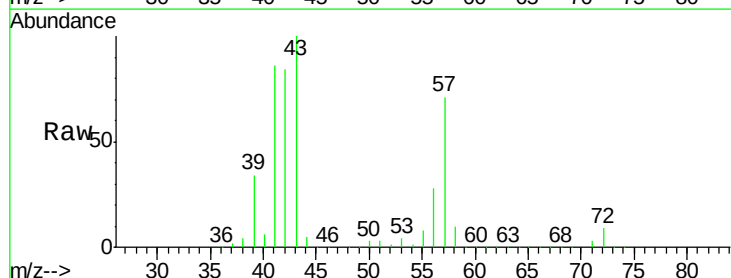
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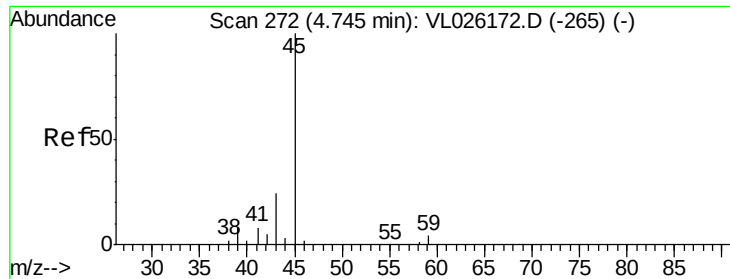
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#15
Acetone
Concen: 247.16 ppbv
RT: 4.61 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Tgt Ion	43	58	Ratio	Lower	Upper
Resp:	9741262				
Ion	43	58	100	22.0	33.0#





#19

Isopropyl Alcohol

Concen: 4.54 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.03 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 45 Resp: 69747

Ion Ratio Lower Upper

45 100

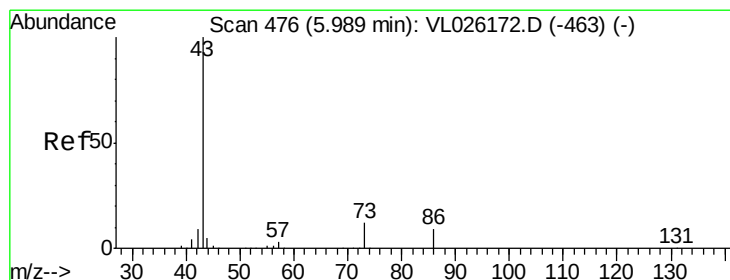
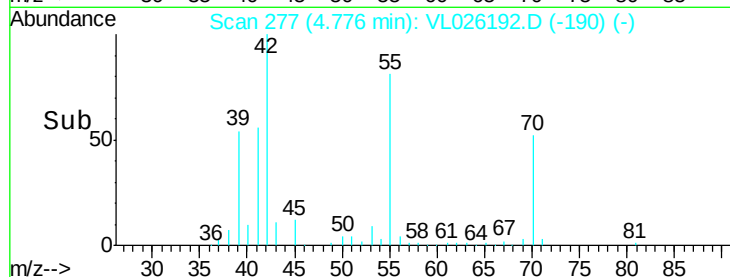
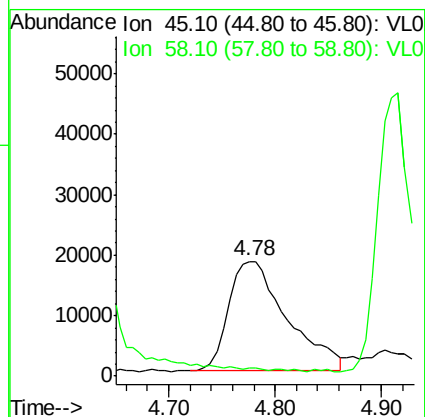
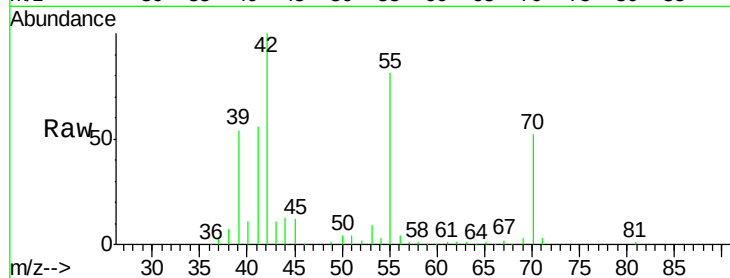
58 0.0 1.7 2.5#

Manual Integrations

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#23

Vinyl Acetate

Concen: 779.58 ppbv

RT: 6.07 min Scan# 489

Delta R.T. 0.08 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Tgt Ion: 43 Resp: 54381772

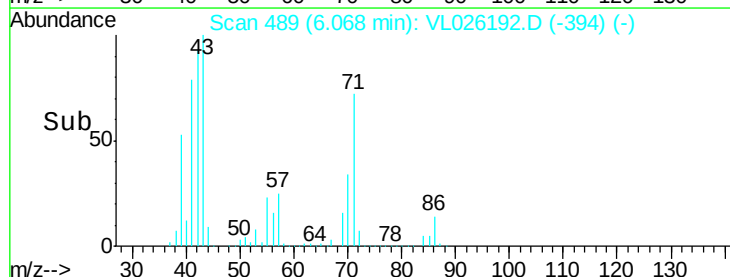
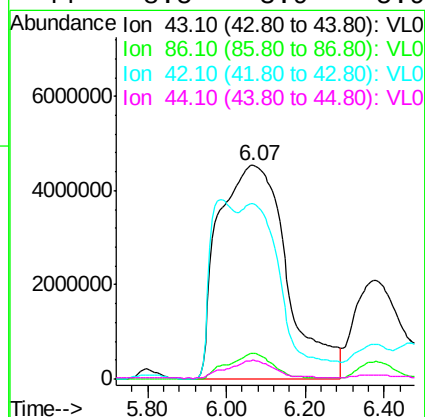
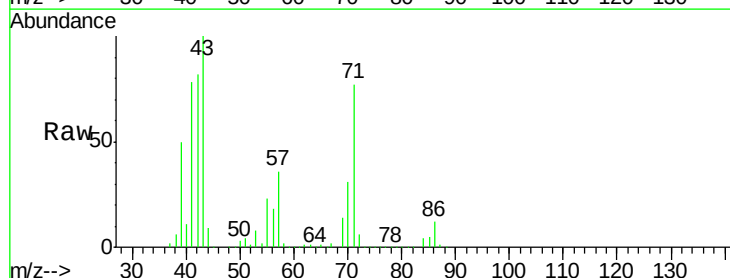
Ion Ratio Lower Upper

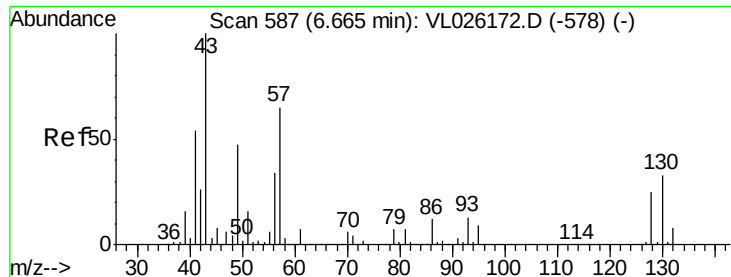
43 100

86 11.9 7.2 10.8#

42 82.0 7.4 11.2#

44 8.5 3.9 5.9#





#26

Hexane

Concen: 829.65 ppbv

RT: 6.77 min Scan# 604

Delta R.T. 0.10 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 57 Resp:30623455

Ion Ratio Lower Upper

57 100

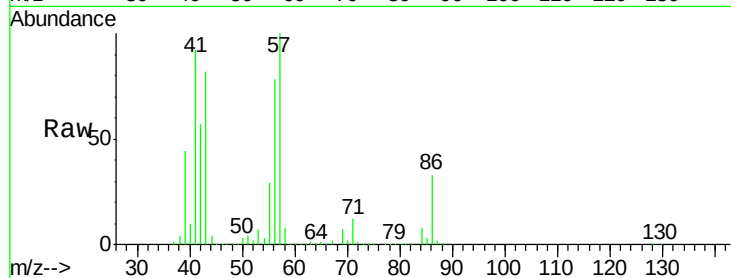
41 88.9 68.0 102.0

43 0.0 164.4 246.6#

56 79.3 42.7 64.1#

Manual Integrations
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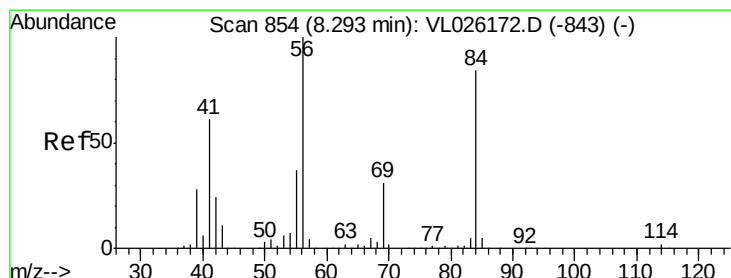
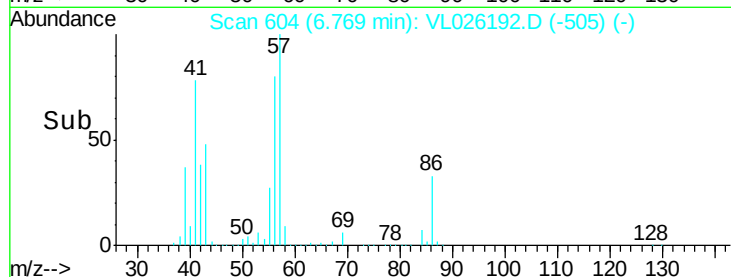
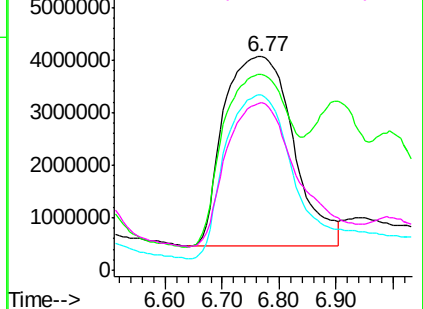


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30

Cyclohexane

Concen: 1208.28 ppbv

RT: 8.40 min Scan# 872

Delta R.T. 0.11 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

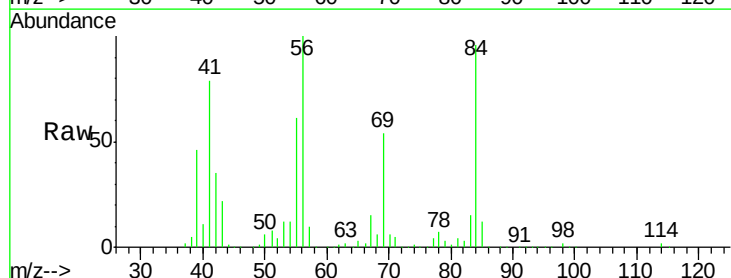
Tgt Ion: 84 Resp:42492831

Ion Ratio Lower Upper

84 100

56 62.4 99.8 149.8#

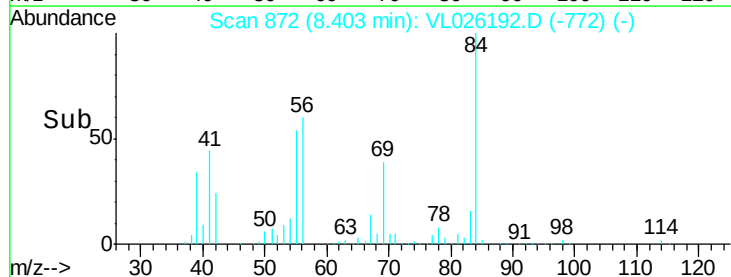
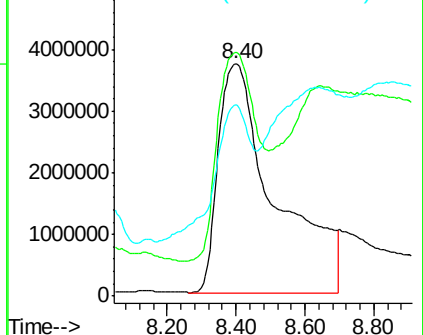
41 36.5 58.1 87.1#

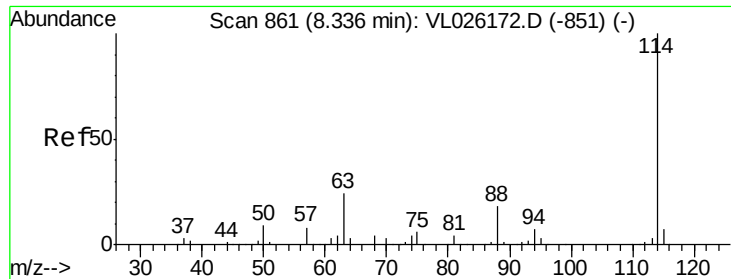


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





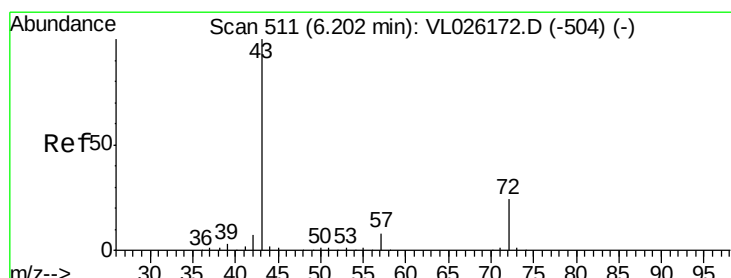
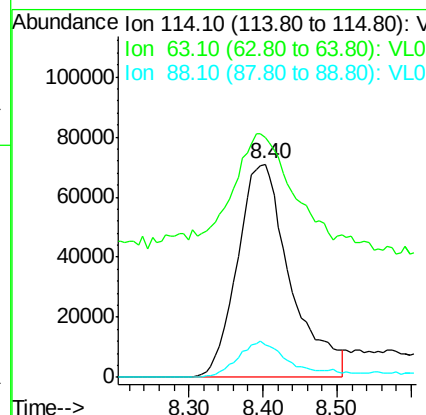
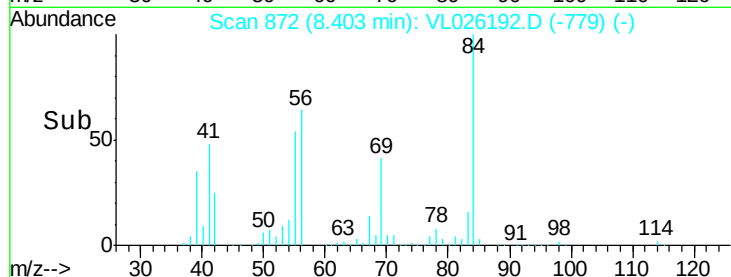
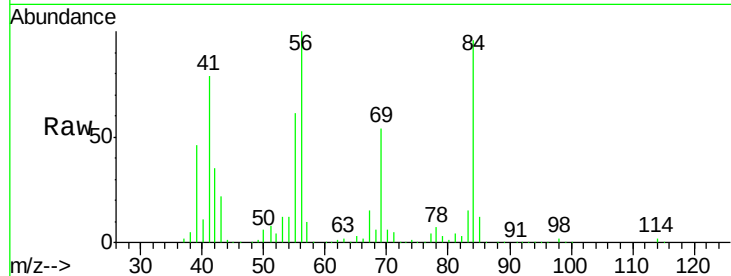
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.40 min Scan# 872
 Delta R.T. 0.07 min
 Lab File: VL026192.D
 Acq: 10 Oct 2015 1:36

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tot Ion:114 Resp: 352633
 Ion Ratio Lower Upper
 114 100
 63 169.7 19.0 28.6#
 88 17.2 13.8 20.8

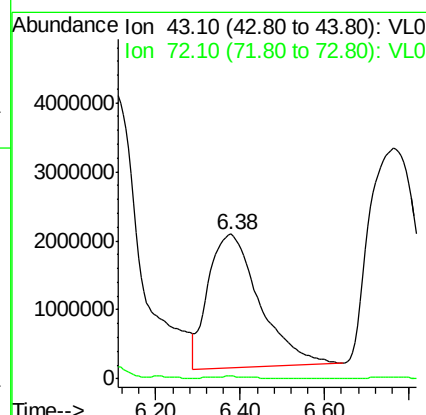
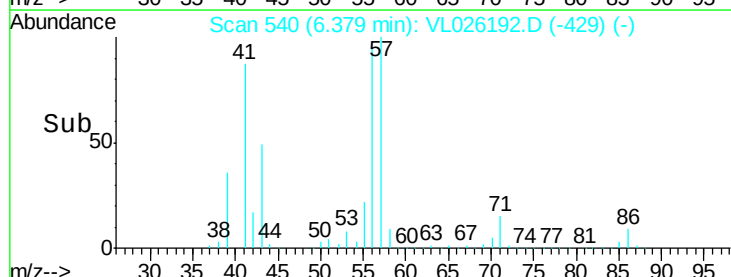
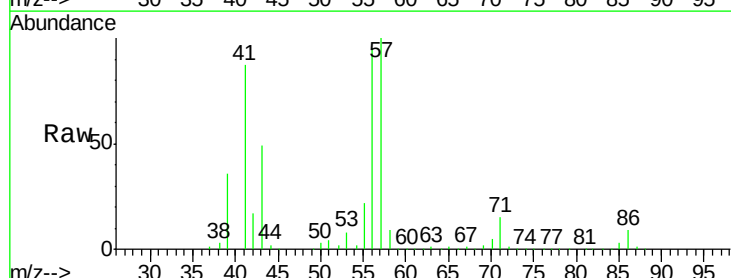
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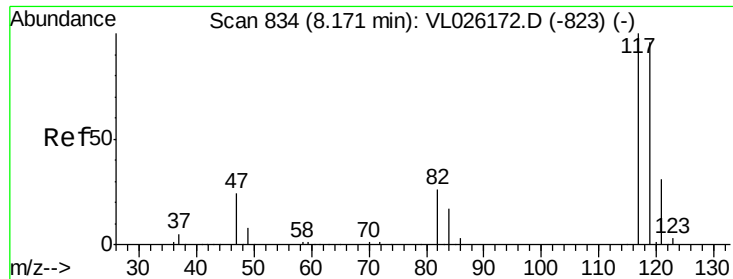
MMdadoda
 10/12/2015 1:24:44 PM



#34
 2-Butanone
 Concen: 833.26 ppbv
 RT: 6.38 min Scan# 540
 Delta R.T. 0.18 min
 Lab File: VL026192.D
 Acq: 10 Oct 2015 1:36

Tgt Ion: 43 Resp:16355373
 Ion Ratio Lower Upper
 43 100
 72 1.6 19.6 29.4#





#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 8.24 min Scan# 846

Delta R.T. 0.07 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Instrument :

MSVOA_L

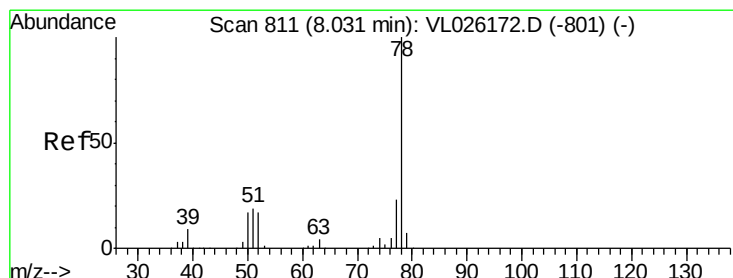
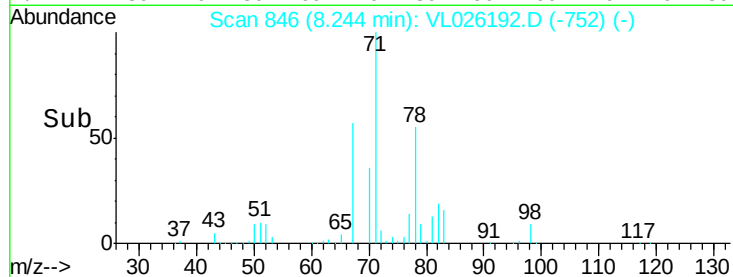
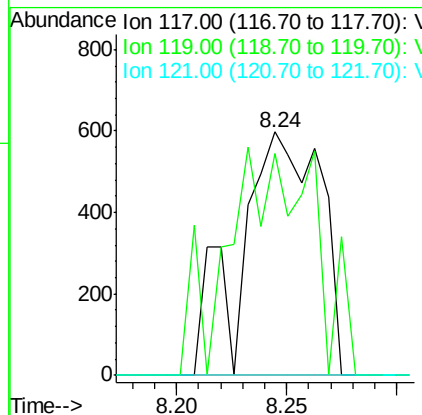
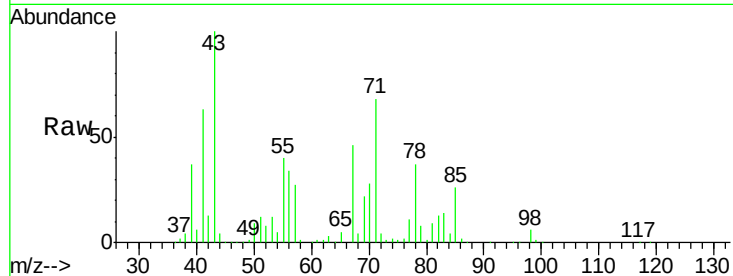
ClientSampled :

SS-1

Tot Ion:117 Resp: 1518
 Ion Ratio Lower Upper
 117 100
 119 91.3 76.6 115.0
 121 0.0 25.0 37.4#

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#36

Benzene

Concen: 765.39 ppbv

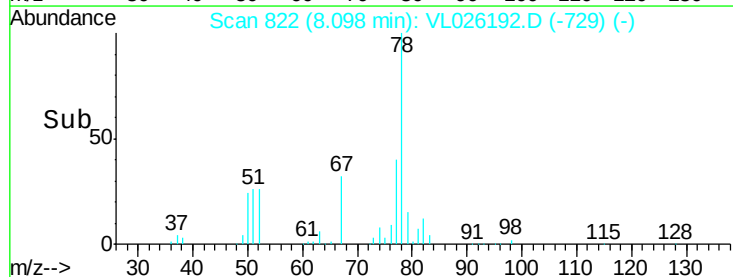
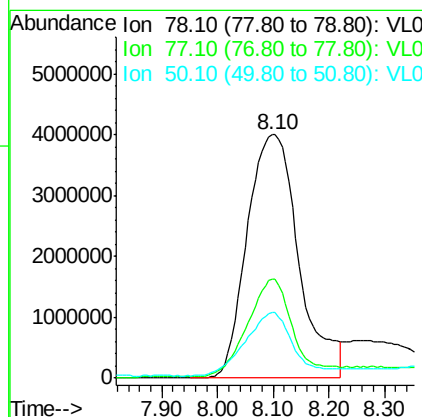
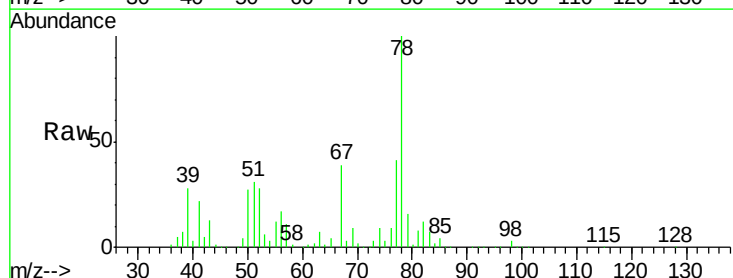
RT: 8.10 min Scan# 822

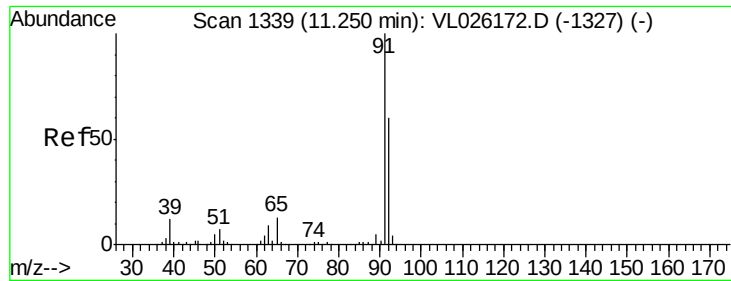
Delta R.T. 0.07 min

Lab File: VL026192.D

Acq: 10 Oct 2015 1:36

Tgt Ion: 78 Resp:25813757
 Ion Ratio Lower Upper
 78 100
 77 40.0 18.2 27.4#
 50 26.1 13.4 20.2#





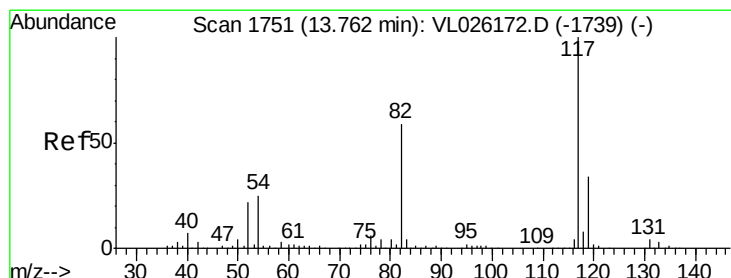
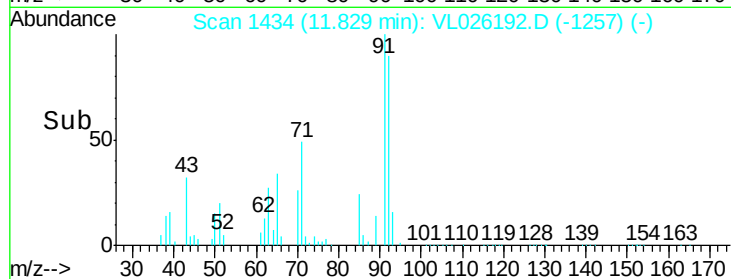
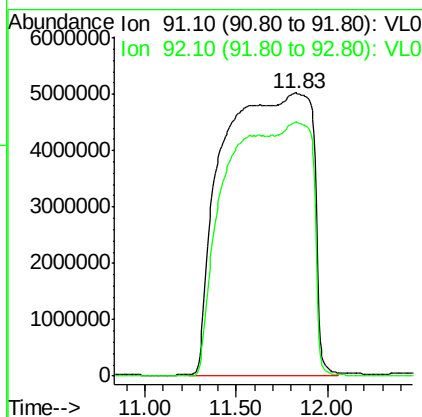
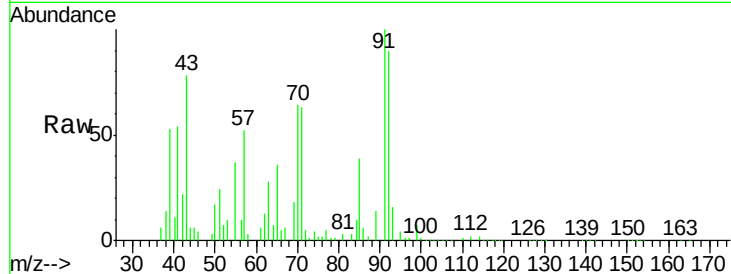
#53
Toluene
Concen: 3914.16 ppbv m
RT: 11.83 min Scan# 1434
Delta R.T. 0.58 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 91 Resp: 17011298
Ion Ratio Lower Upper
91 100
92 43.0 48.5 72.7#

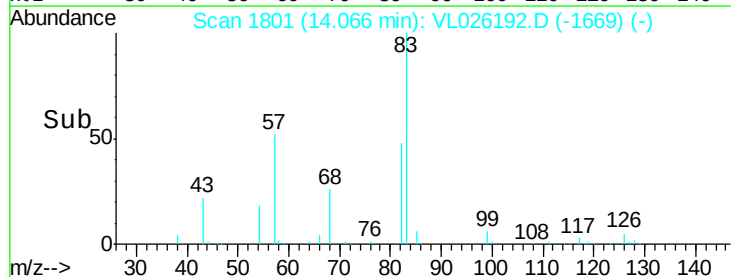
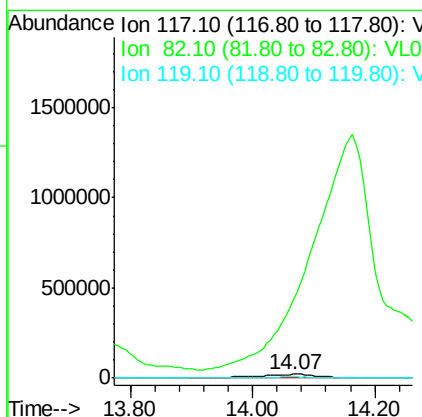
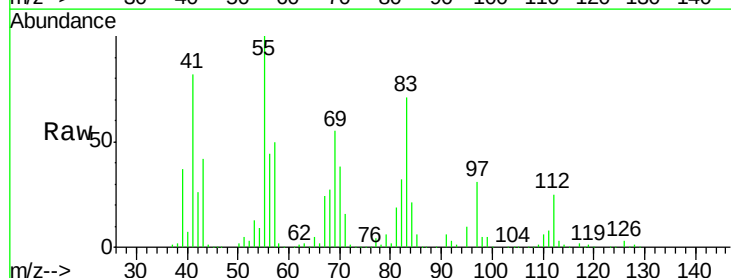
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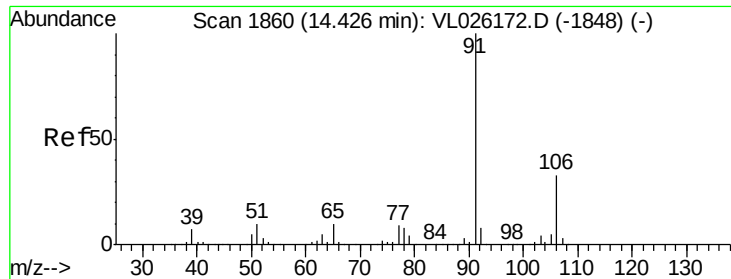
MMdadoda
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#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 14.07 min Scan# 1801
Delta R.T. 0.30 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Tgt Ion: 117 Resp: 145252
Ion Ratio Lower Upper
117 100
82 0.0 47.7 71.5#
119 34.9 43.7 65.5#





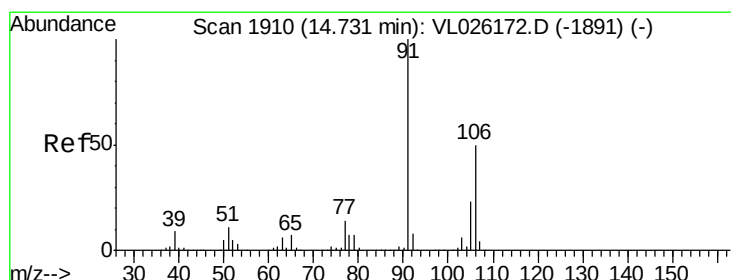
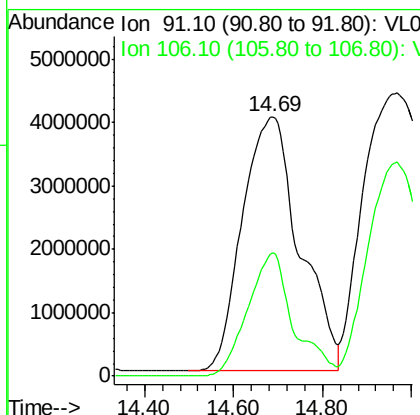
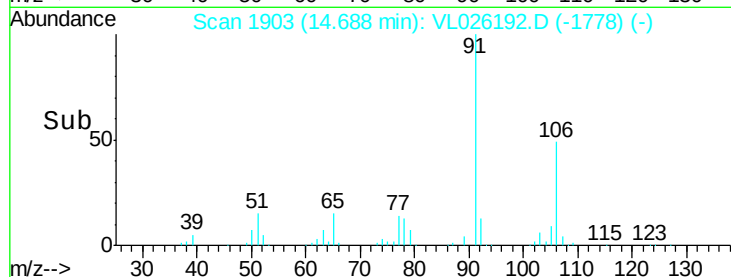
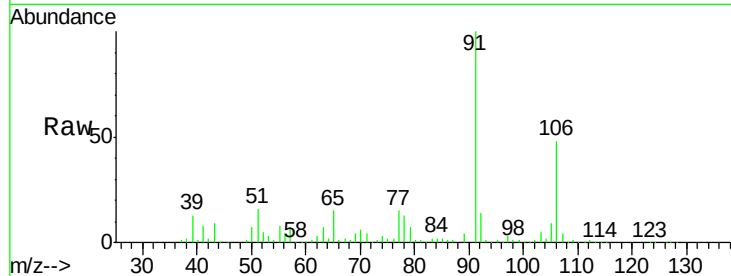
#58
Ethyl Benzene
Concen: 1696.32 ppbv
RT: 14.69 min Scan# 1903
Delta R.T. 0.26 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 91 Resp:35789533
Ion Ratio Lower Upper
91 100
106 48.8 26.1 39.1#

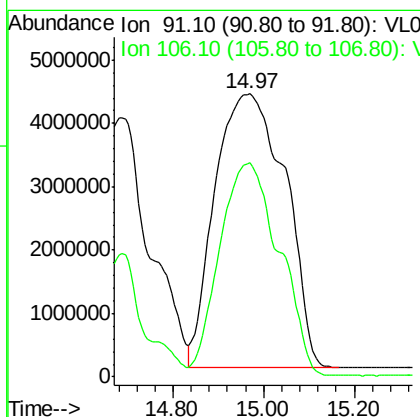
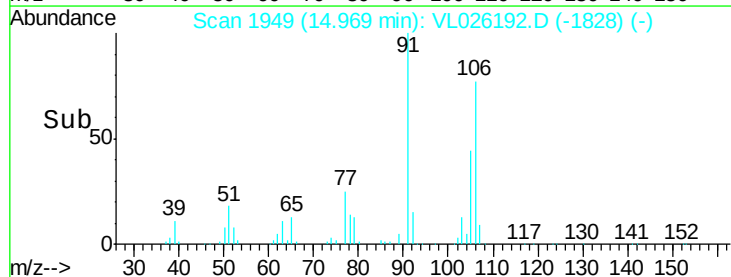
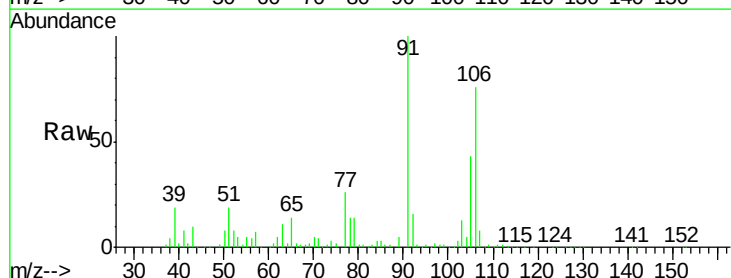
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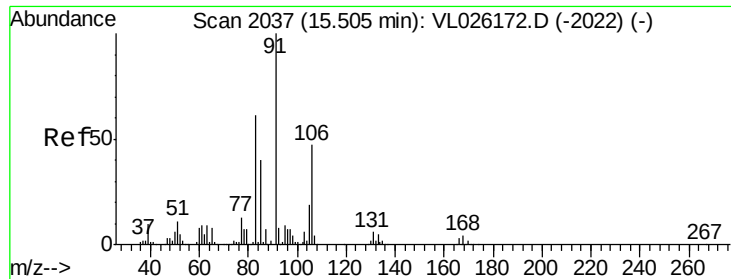
MMdadoda
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#59
m/p-Xylene
Concen: 2742.51 ppbv
RT: 14.97 min Scan# 1949
Delta R.T. 0.24 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Tgt Ion: 91 Resp:46435027
Ion Ratio Lower Upper
91 100
106 66.4 40.2 60.4#





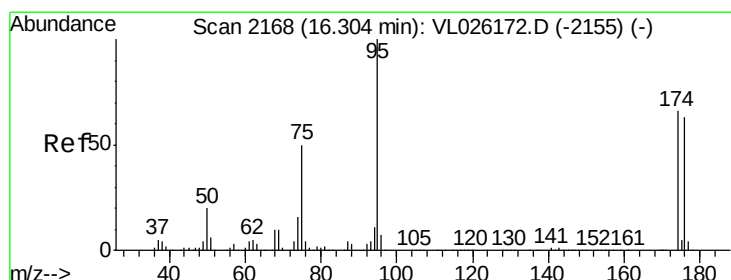
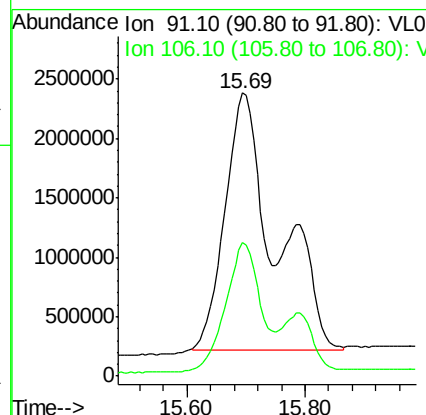
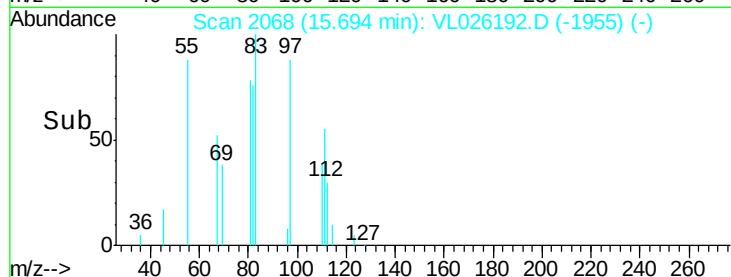
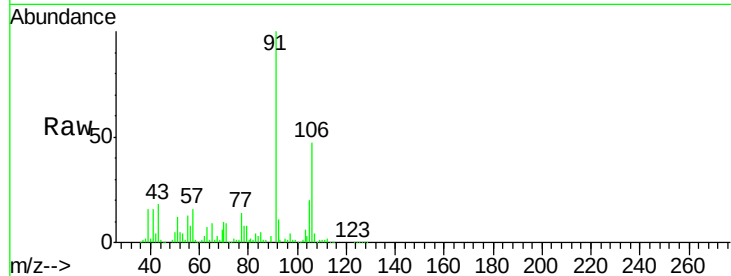
#60
o-Xylene
Concen: 725.86 ppbv m
RT: 15.69 min Scan# 2068
Delta R.T. 0.19 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 91 Resp:12879122
Ion Ratio Lower Upper
91 100
106 11.3 23.4 70.3#

Manual Integrations
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MMdadoda
10/12/2015 1:24:44 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 0.08 ppbv
RT: 16.66 min Scan# 2226
Delta R.T. 0.35 min
Lab File: VL026192.D
Acq: 10 Oct 2015 1:36

Tgt Ion: 95 Resp: 899
Ion Ratio Lower Upper
95 100
174 0.0 52.2 78.4#
175 0.0 3.9 5.9#

