

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031224.D
 Acq On : 14 Dec 2017 9:52
 Operator : SY/AP
 Sample : I6769-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSV-2ADL

Manual Integrations
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 12/15/2017 4:07:03 PM

Quant Time: Dec 15 06:14:54 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1791929	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	4093966	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4255822	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	3150215	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.78	45	19550	0.68	ppbv	95
15) Acetone	4.02	43	3004215	12.70	ppbv	98
20) Methylene Chloride	4.54	84	31466m	0.40	ppbv	
26) Hexane	5.93	57	35956	0.16	ppbv #	54
34) 2-Butanone	5.49	43	121028	0.42	ppbv	99
38) Trichloroethene	8.12	130	23533	0.14	ppbv	89
52) Tetrachloroethene	11.54	164	1852234	11.57	ppbv	98
53) Toluene	10.11	91	61243	0.13	ppbv	99
58) Ethyl Benzene	13.03	91	346849	0.49	ppbv	99
59) m/p-Xylene	13.29	91	1673395	2.97	ppbv	99
60) o-Xylene	14.02	91	389584	0.69	ppbv	99
74) 1,2,4-Trimethylbenzene	17.09	105	63817m	0.11	ppbv	

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

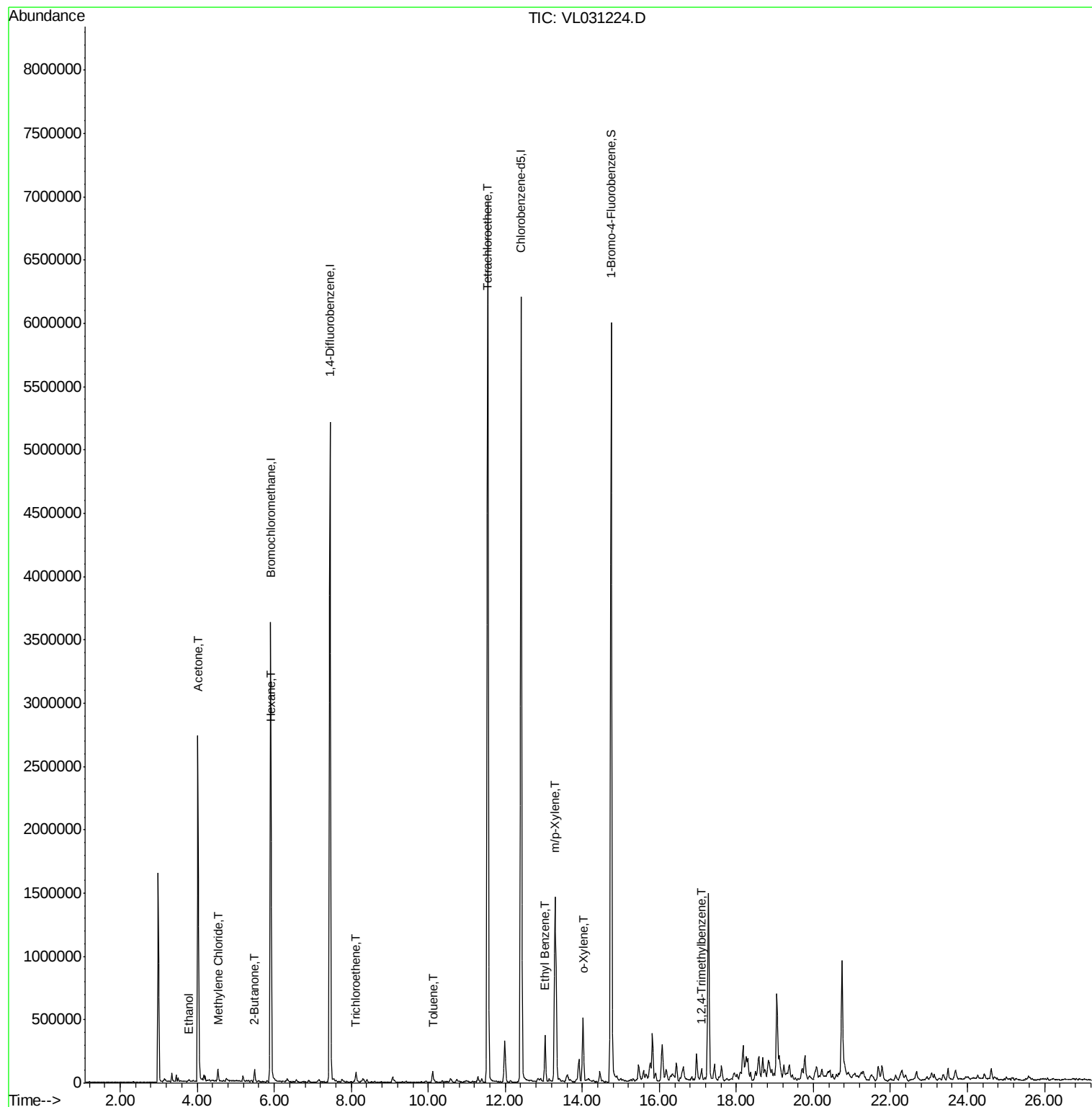
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
Data File : VL031224.D
Acq On : 14 Dec 2017 9:52
Operator : SY/AP
Sample : I6769-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

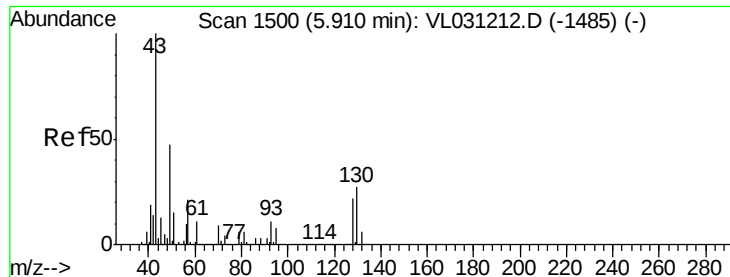
Instrument :
MSVOA_L
ClientSampleId :
SSV-2ADL

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12/15/2017 4:07:03 PM

Quant Time: Dec 15 06:14:54 2017
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

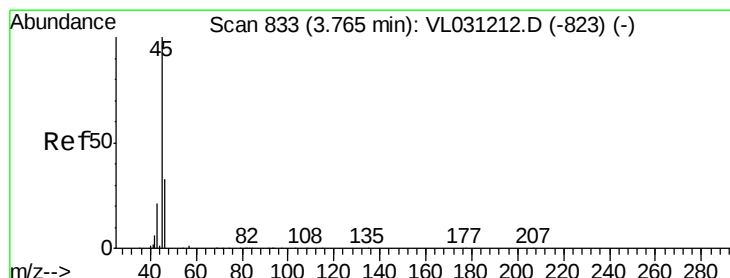
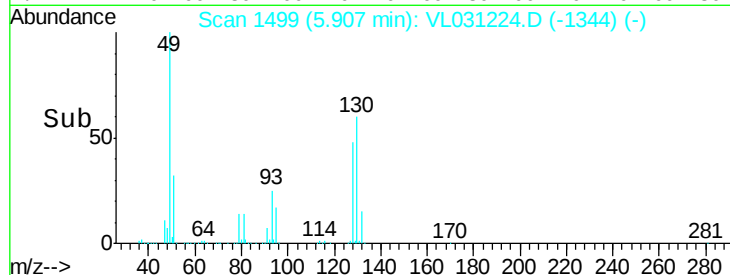
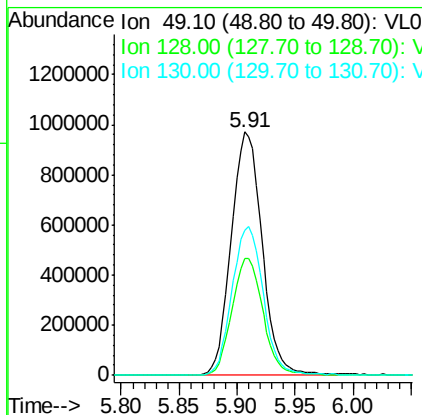
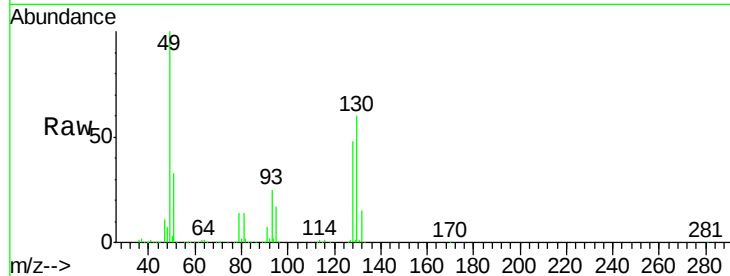
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.91 min Scan# 1499
 Delta R.T. -0.00 min
 Lab File: VL031224.D
 Acq: 14 Dec 2017 9:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SSV-2ADL

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.2	69.5
130	62.5	29.6	88.8

Manual Integrations
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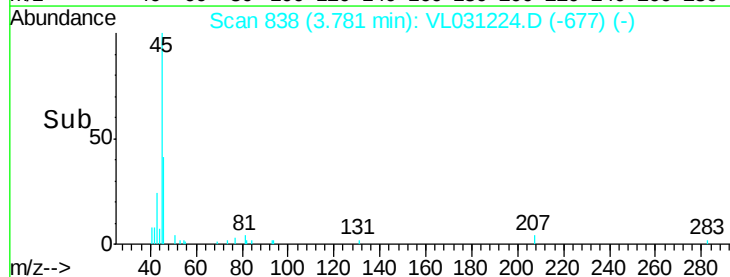
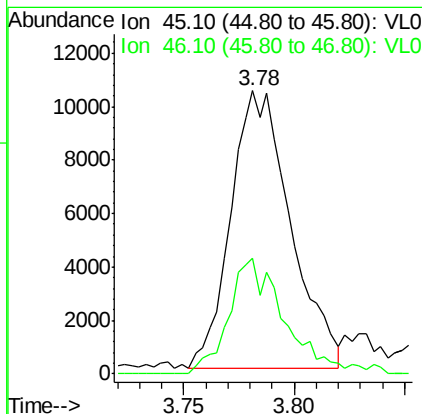
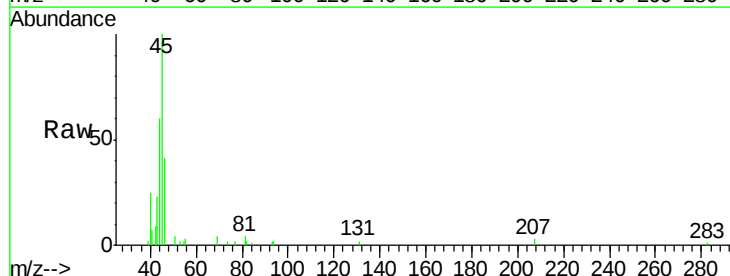
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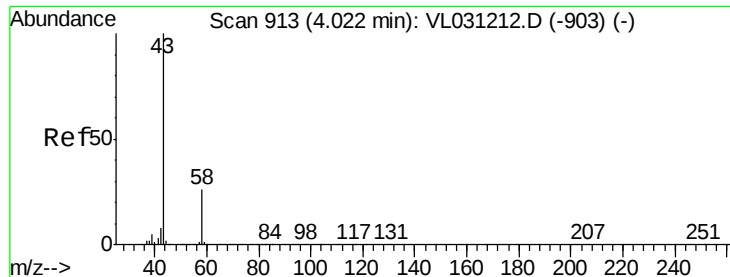


#13

Ethanol
 Concen: 0.68 ppbv
 RT: 3.78 min Scan# 838
 Delta R.T. 0.02 min
 Lab File: VL031224.D
 Acq: 14 Dec 2017 9:52

Tgt Ion	Ratio	Lower	Upper
45	100		
46	39.4	14.6	58.4





#15

Acetone

Concen: 12.70 ppbv

RT: 4.02 min Scan# 912

Delta R.T. -0.00 min

Lab File: VL031224.D

Acq: 14 Dec 2017 9:52

Instrument :

MSVOA_L

ClientSampleId :

SSV-2ADL

Tot Ion: 43 Resp: 3004215

Ion Ratio Lower Upper

43 100

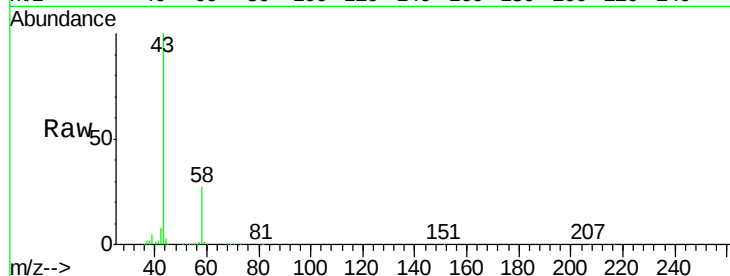
58 26.2 20.3 30.5

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

2000000

1500000

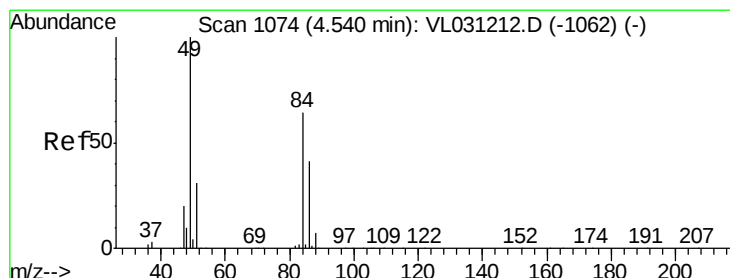
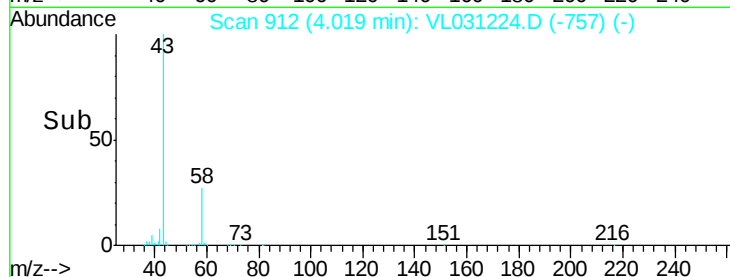
1000000

500000

0

4.00 4.10

Time-->



#20

Methylene Chloride

Concen: 0.40 ppbv m

RT: 4.54 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VL031224.D

Acq: 14 Dec 2017 9:52

Tgt Ion: 84 Resp: 31466

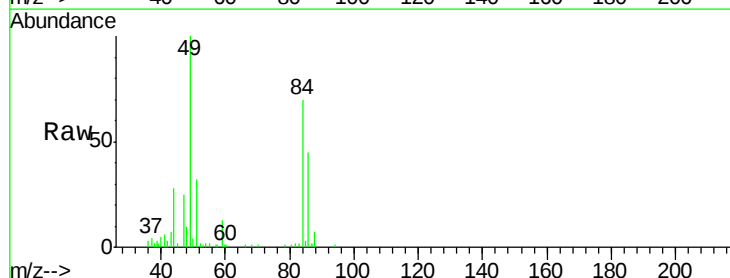
Ion Ratio Lower Upper

84 100

49 143.3 125.8 188.6

51 45.7 39.3 58.9

86 65.2 51.1 76.7



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

40000

30000

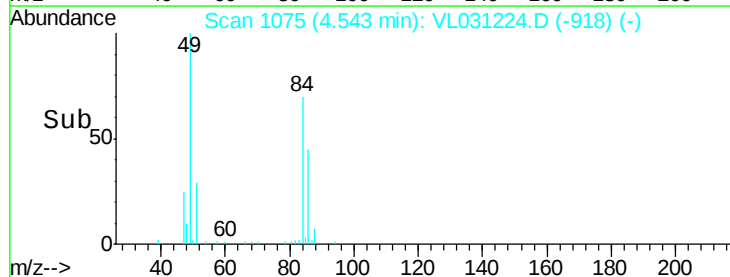
20000

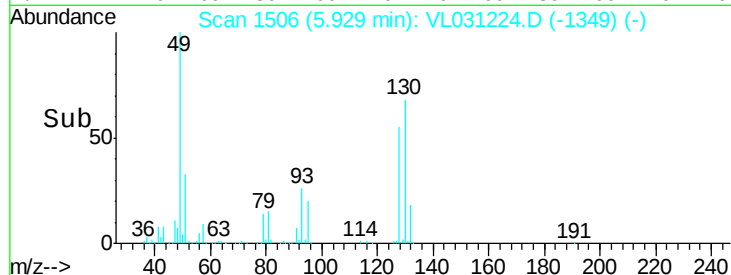
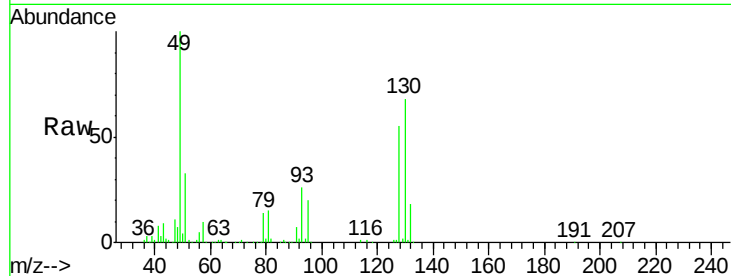
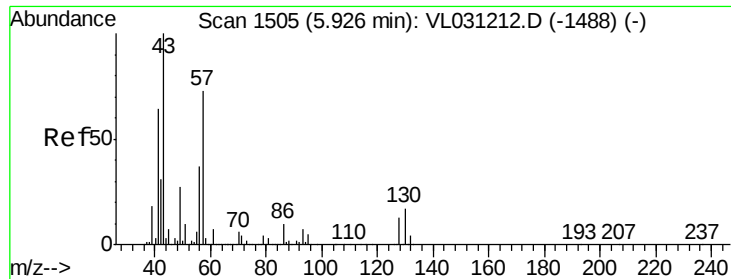
10000

0

4.50 4.55 4.60

Time-->





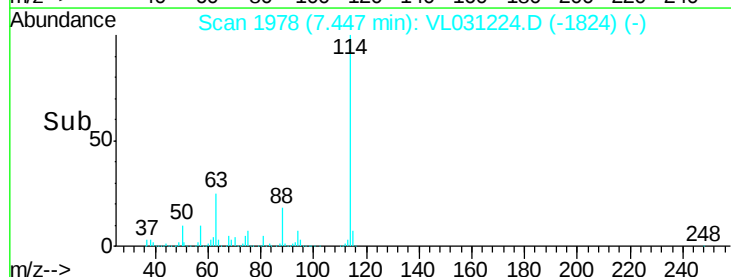
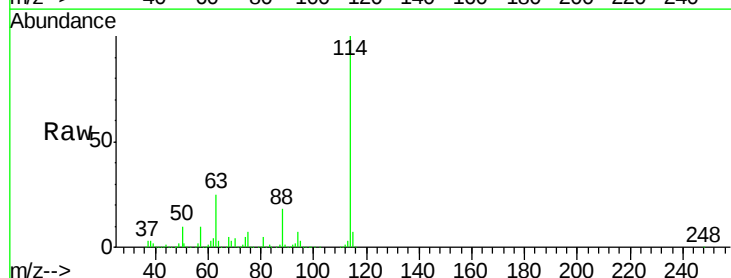
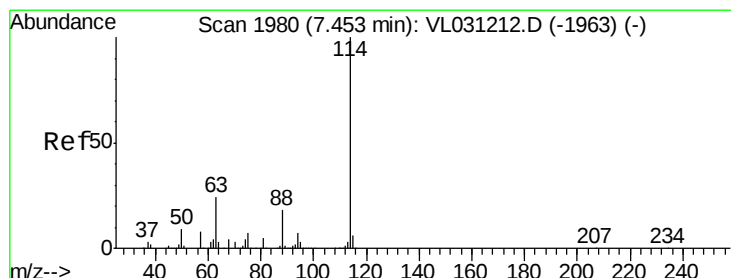
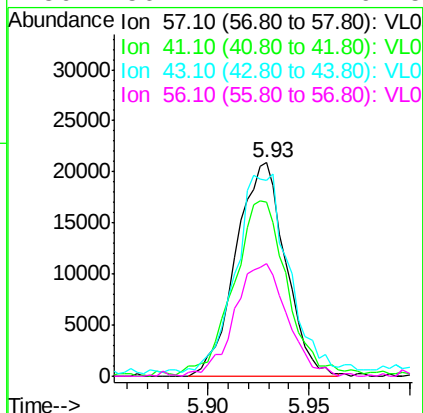
#26
Hexane
Concen: 0.16 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		35956		
41	91.8	70.3	105.5		
43	102.9	173.8	260.8		
56	56.7	41.7	62.5		

Instrument :
MSVOA_L
ClientSampleId :
SSV-2ADL

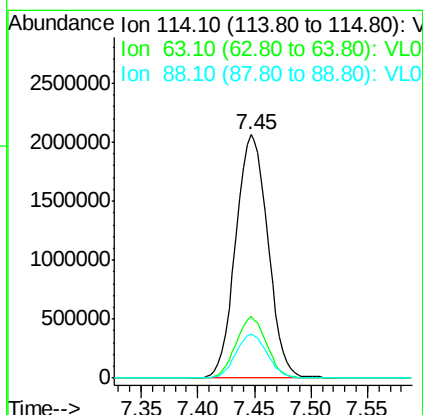
Manual Integrations
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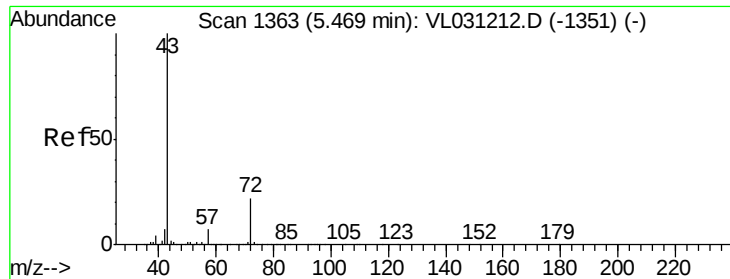
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.45 min Scan# 1978
Delta R.T. -0.01 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
114	100		4093966		
63	24.1	19.8	29.8		
88	17.5	14.2	21.4		





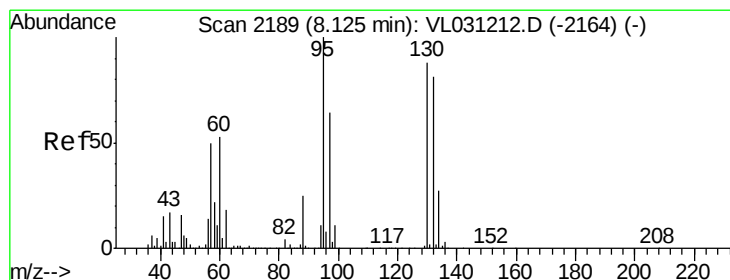
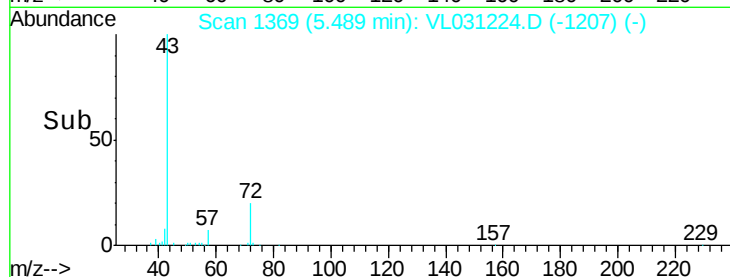
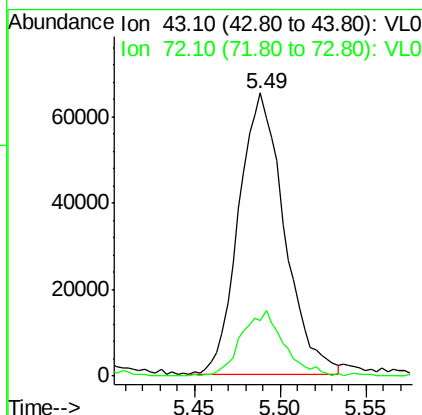
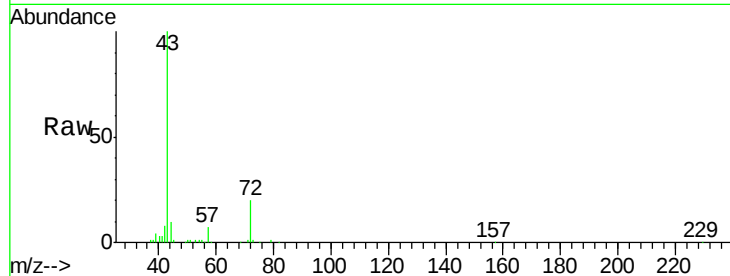
#34
2-Butanone
Concen: 0.42 ppbv
RT: 5.49 min Scan# 1369
Delta R.T. 0.02 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Instrument :
MSVOA_L
ClientSampleId :
SSV-2ADL

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.1	27.1

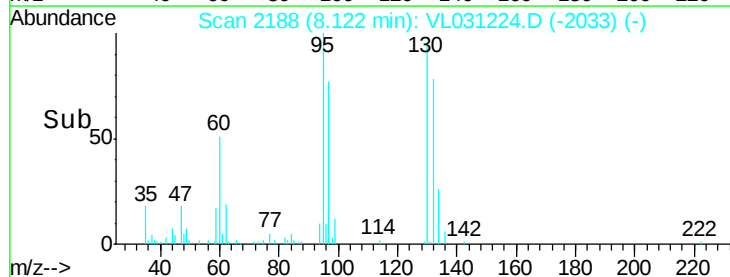
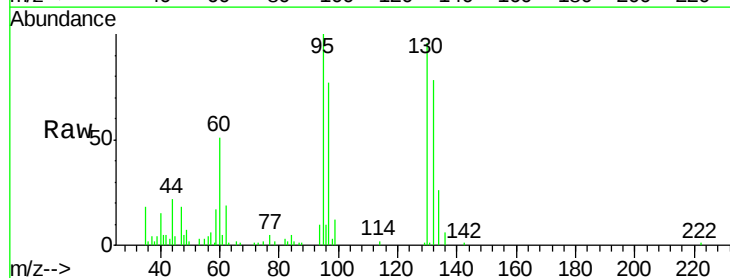
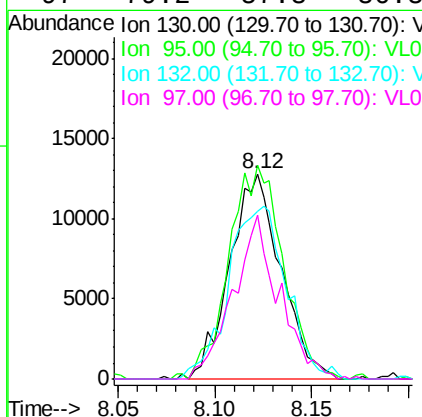
Manual Integrations
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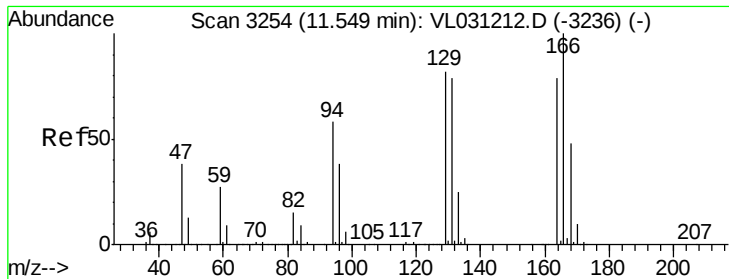
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#38
Trichloroethene
Concen: 0.14 ppbv
RT: 8.12 min Scan# 2188
Delta R.T. -0.00 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.0	90.6	135.8
132	78.4	73.5	110.3
97	79.2	57.8	86.8





#52

Tetrachloroethene

Concen: 11.57 ppbv

RT: 11.54 min Scan# 3252

Delta R.T. -0.01 min

Lab File: VL031224.D

Acq: 14 Dec 2017 9:52

Instrument :

MSVOA_L

ClientSampleId :

SSV-2ADL

Tot Ion:164 Resp: 1852234

Ion Ratio Lower Upper

164 100

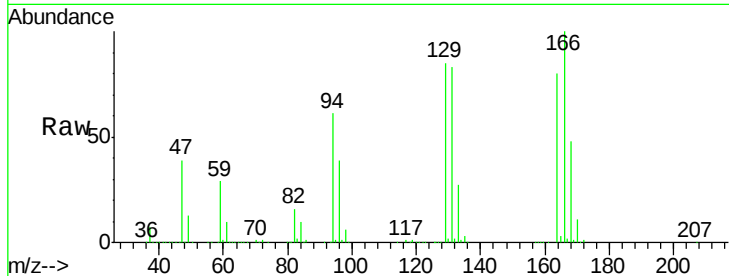
166 124.4 100.6 151.0

129 106.0 82.9 124.3

131 103.0 79.2 118.8

Manual Integrations
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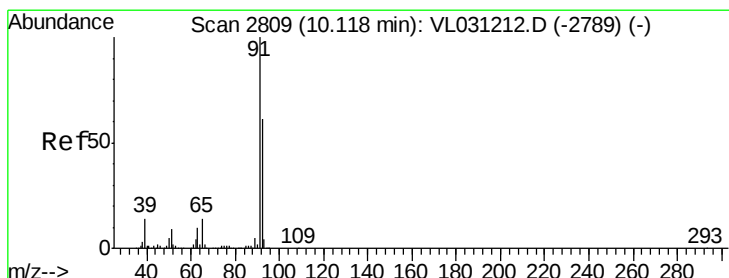
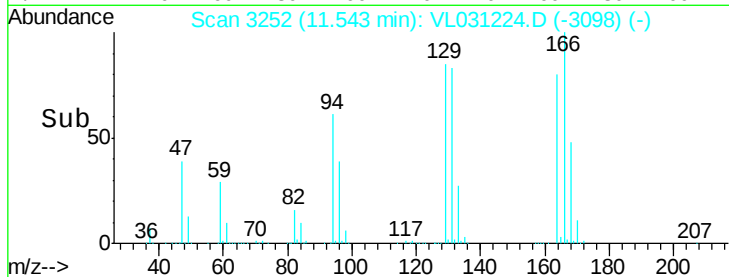
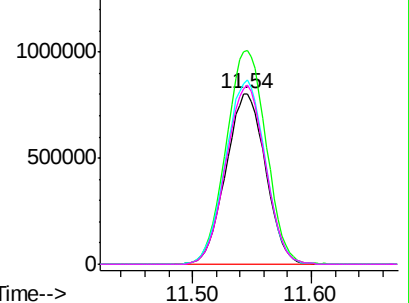


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.13 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031224.D

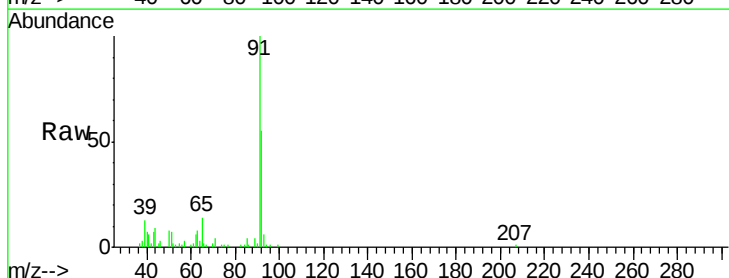
Acq: 14 Dec 2017 9:52

Tgt Ion: 91 Resp: 61243

Ion Ratio Lower Upper

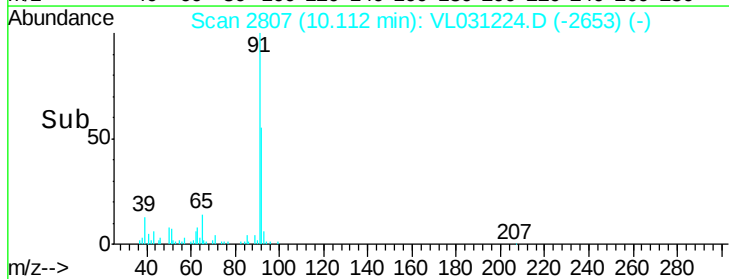
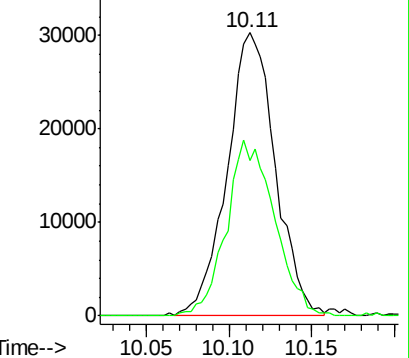
91 100

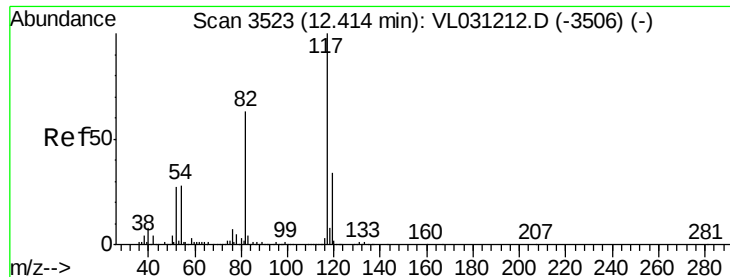
92 61.8 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





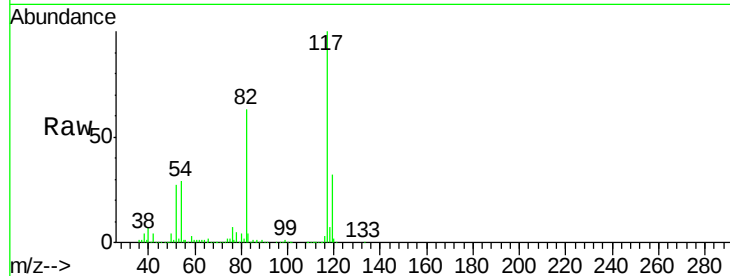
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Instrument :
MSVOA_L
ClientSampleId :
SSV-2ADL

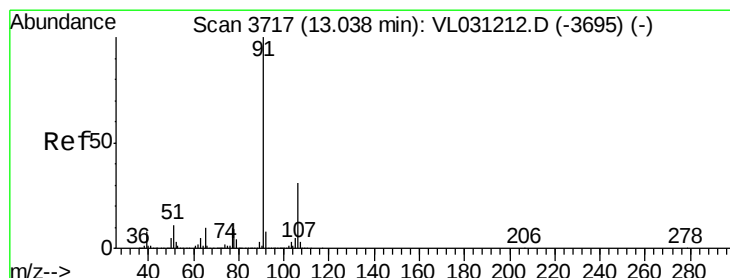
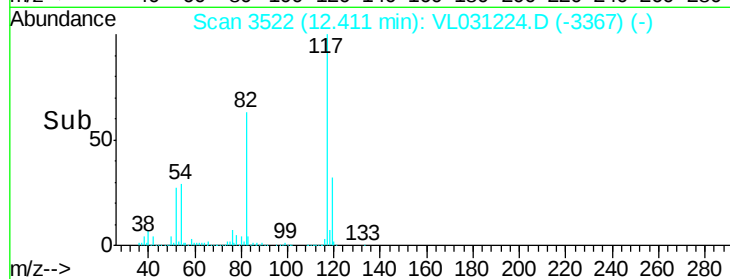
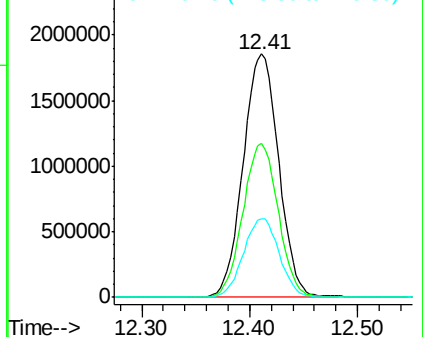
Tot Ion	Ratio	Lower	Upper
117	100		
82	63.1	48.1	72.1
119	32.7	23.1	34.7

Manual Integrations
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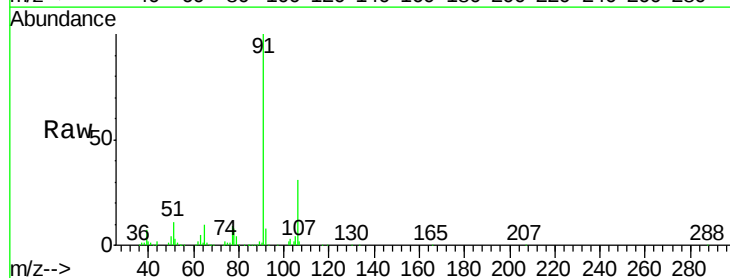


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

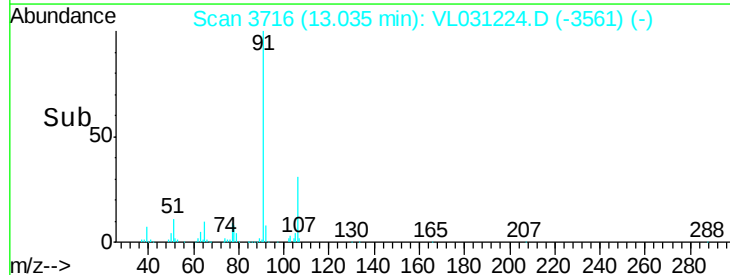
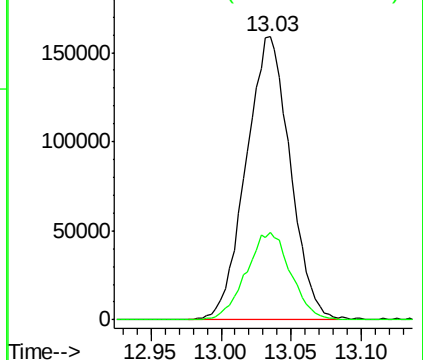


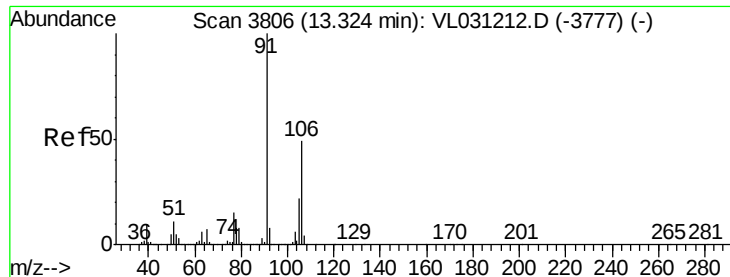
#58
Ethyl Benzene
Concen: 0.49 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.1	37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





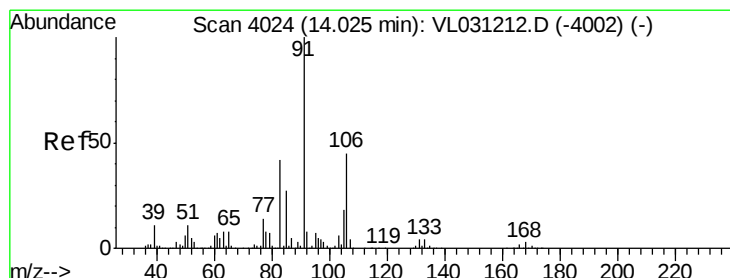
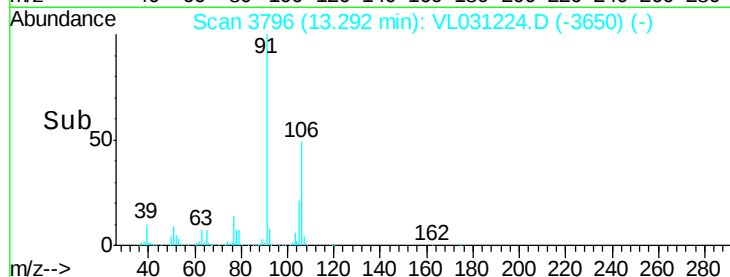
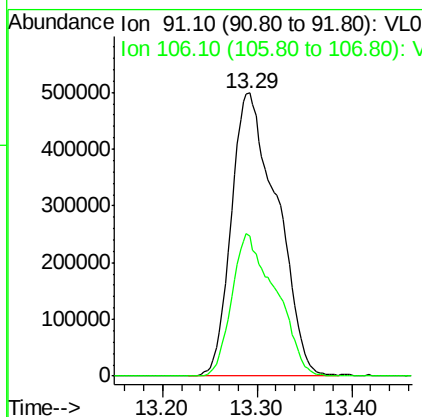
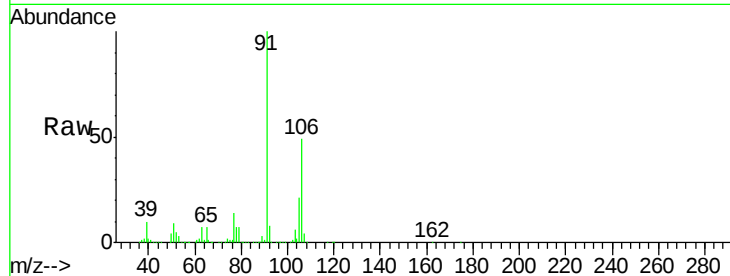
#59
m/p-Xylene
Concen: 2.97 ppbv
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Instrument :
MSVOA_L
ClientSampled :
SSV-2ADL

Tot Ion: 91 Resp: 1673395
Ion Ratio Lower Upper
91 100
106 48.7 38.5 57.7

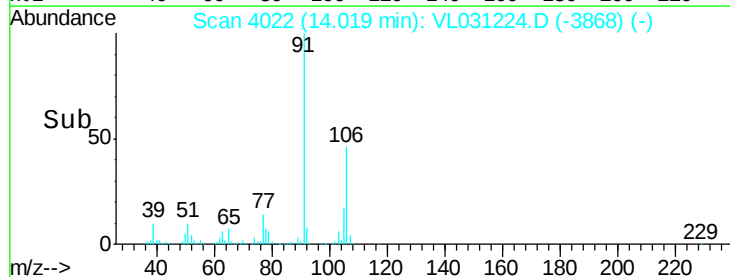
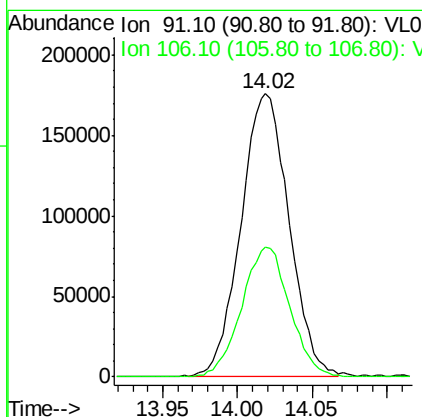
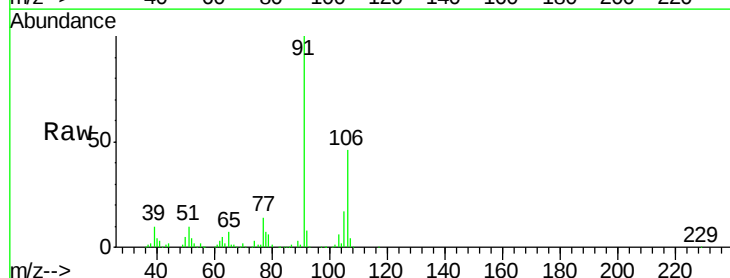
Manual Integrations
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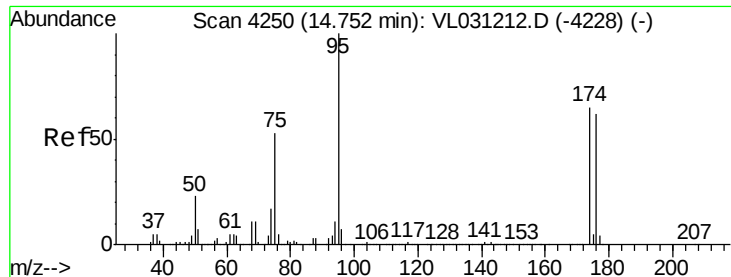
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#60
o-Xylene
Concen: 0.69 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031224.D
Acq: 14 Dec 2017 9:52

Tgt Ion: 91 Resp: 389584
Ion Ratio Lower Upper
91 100
106 46.3 22.7 68.1





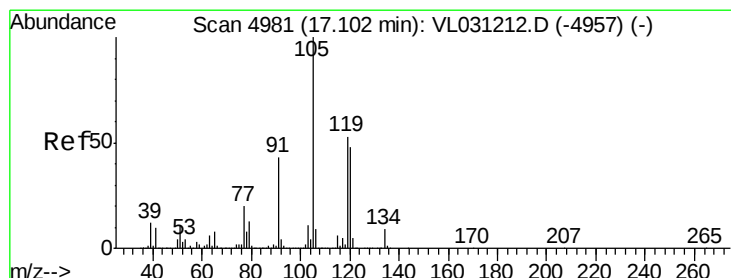
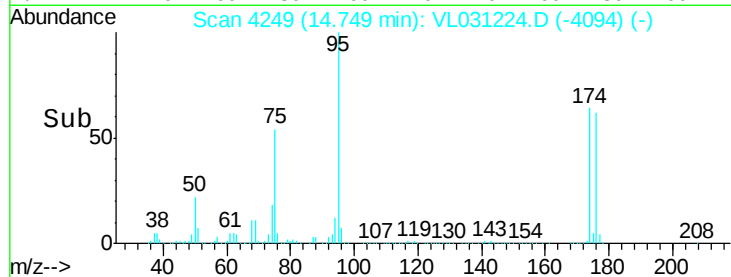
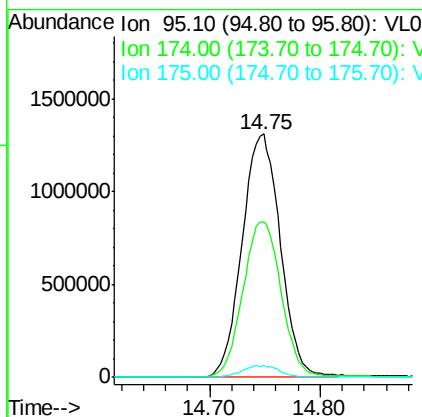
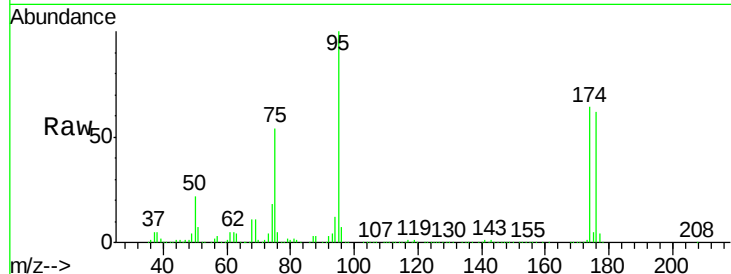
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.41 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031224.D
 Acq: 14 Dec 2017 9:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SSV-2ADL

Tot Ion: 95 Resp: 3150215
 Ion Ratio Lower Upper
 95 100
 174 65.1 52.5 78.7
 175 4.8 4.1 6.1

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:07:03 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.11 ppbv m
 RT: 17.09 min Scan# 4977
 Delta R.T. -0.01 min
 Lab File: VL031224.D
 Acq: 14 Dec 2017 9:52

Tgt Ion: 105 Resp: 63817
 Ion Ratio Lower Upper
 105 100
 120 40.9 38.6 58.0
 91 12.1 34.2 51.4#
 77 13.2 16.1 24.1#

