

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112918\
 Data File : VL032842.D
 Acq On : 29 Nov 2018 20:00
 Operator : SY/AP
 Sample : J6088-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3

Manual Integrations
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 12/4/2018 8:38:57 AM

Quant Time: Nov 30 07:49:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1311701	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3354513	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3166274	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2460423	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	40439	0.214	ppbv	95
3) Chlorodifluoromethane	3.02	51	43092m	0.414	ppbv	
4) Chloromethane	3.18	50	28205	0.489	ppbv	94
9) Propene	3.06	41	43216m	1.038	ppbv	
11) Trichlorofluoromethane	4.01	101	124289	0.699	ppbv	99
13) Ethanol	3.66	45	107133	7.860	ppbv	96
15) Acetone	3.91	43	820988	6.854	ppbv	96
19) Isopropyl Alcohol	4.04	45	84398	1.058	ppbv #	1
20) Methylene Chloride	4.42	84	66181	1.067	ppbv #	80
21) Allyl Chloride	4.44	41	7288	0.072	ppbv #	33
26) Hexane	5.79	57	68505	0.551	ppbv #	45
34) 2-Butanone	5.34	43	248935	1.431	ppbv	100
35) Carbon Tetrachloride	7.14	117	19355m	0.072	ppbv	
36) Benzene	7.01	78	56628	0.212	ppbv #	92
38) Trichloroethene	7.97	130	25118m	0.232	ppbv	
44) 2,2,4-Trimethylpentane	8.00	57	50437m	0.113	ppbv	
52) Tetrachloroethene	11.39	164	27899m	0.300	ppbv	
53) Toluene	9.95	91	675144	2.423	ppbv	99
58) Ethyl Benzene	12.88	91	60746	0.159	ppbv	98
59) m/p-Xylene	13.13	91	227331m	0.670	ppbv	
60) o-Xylene	13.86	91	55467	0.163	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	62821m	0.161	ppbv	

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

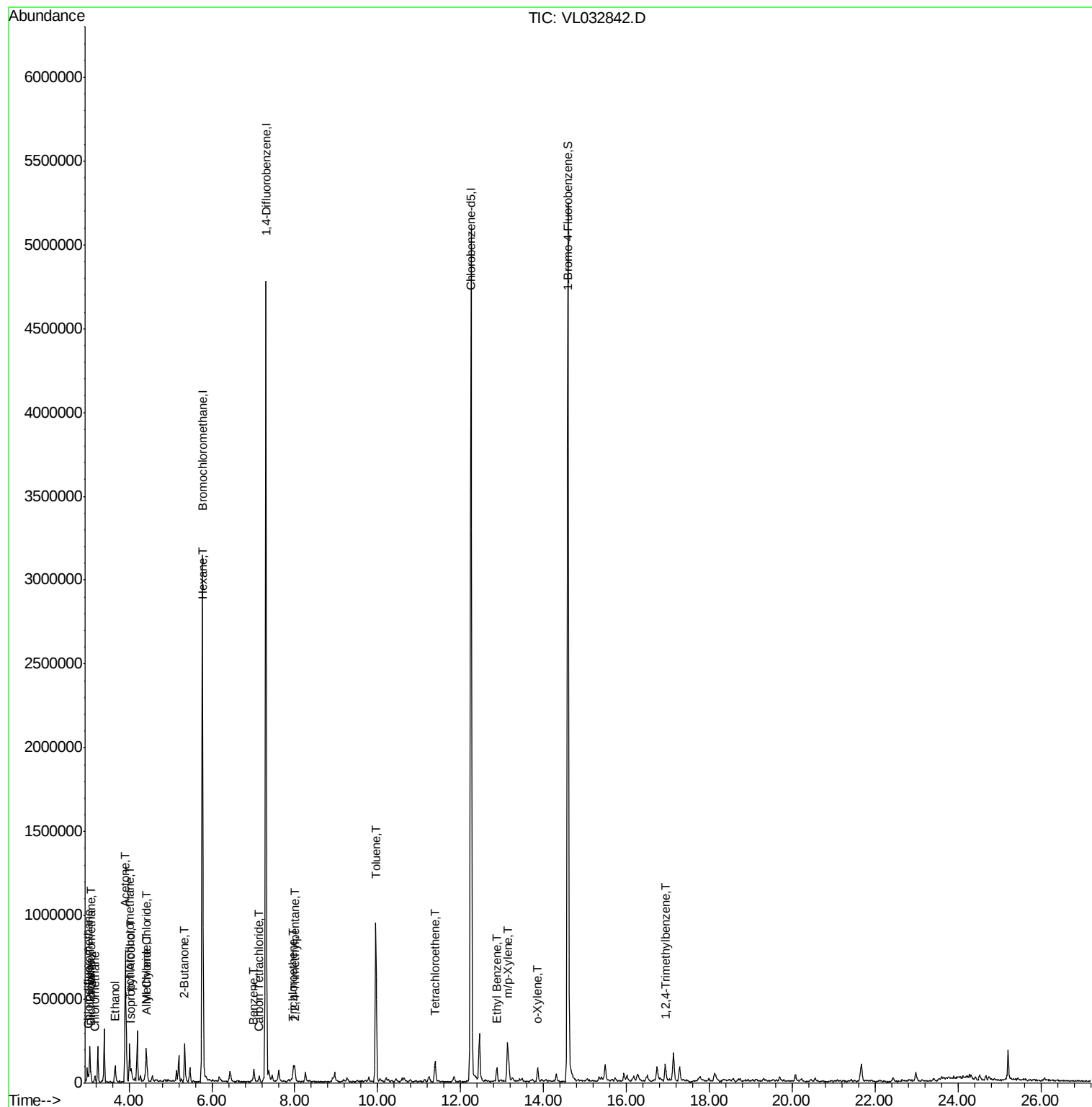
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112918\
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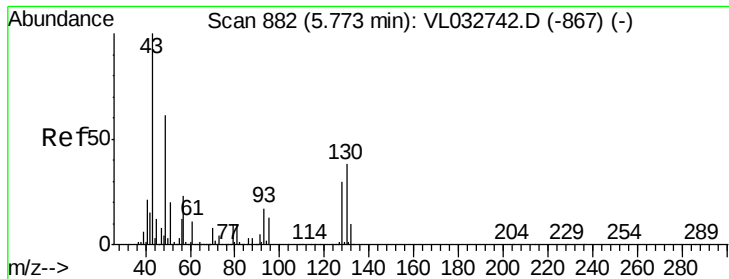
Instrument :
MSVOA_L
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Quant Time: Nov 30 07:49:29 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Instrument :

MSVOA_L

ClientSampled :

IAS-3

Tgt Ion: 49 Resp: 1311701

Ion Ratio Lower Upper

49 100

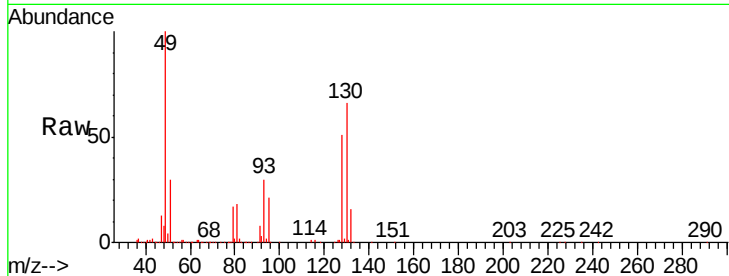
128 52.0 24.9 74.6

130 67.1 31.4 94.2

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

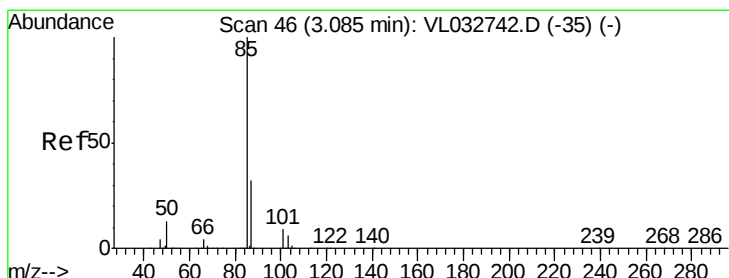
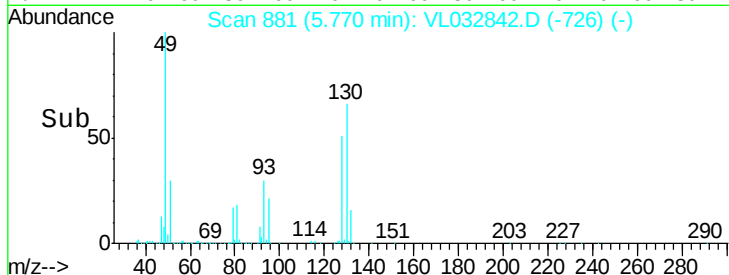
200000

0

5.77

5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.214 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032842.D

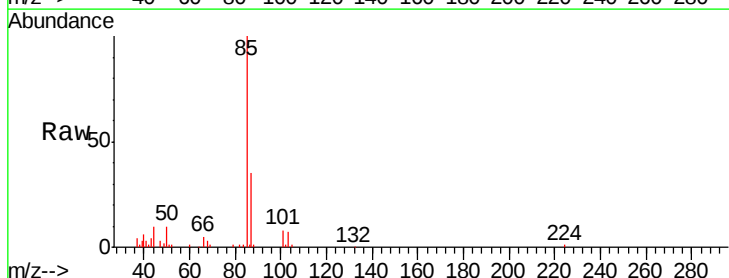
Acq: 29 Nov 2018 20:00

Tgt Ion: 85 Resp: 40439

Ion Ratio Lower Upper

85 100

87 35.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

20000

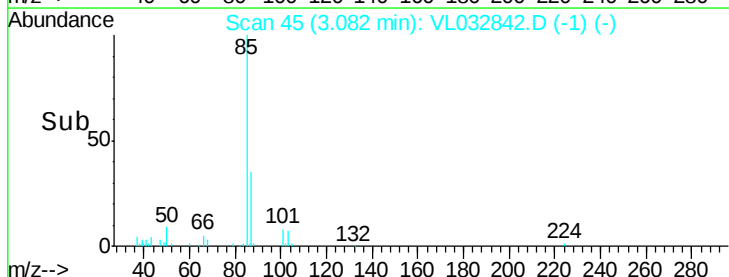
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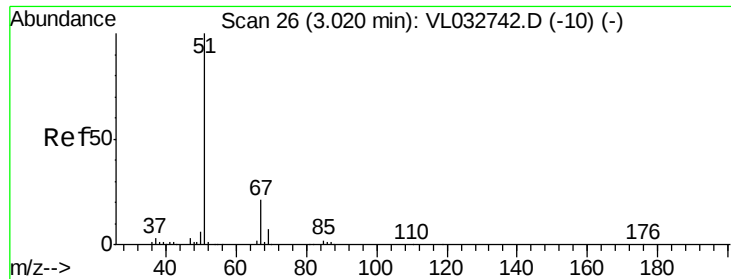
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3.08

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 0.414 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Instrument :

MSVOA_L

ClientSampled :

IAS-3

Tgt Ion: 51 Resp: 43092

Ion Ratio Lower Upper

51 100

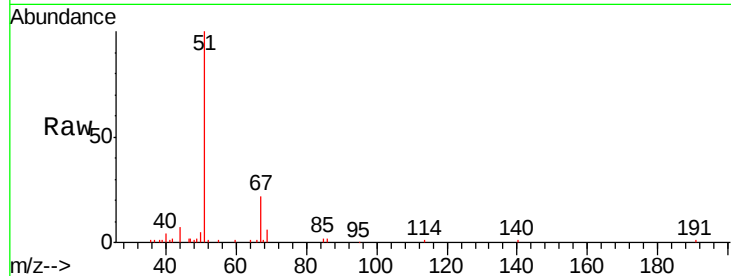
67 19.8 16.1 24.1

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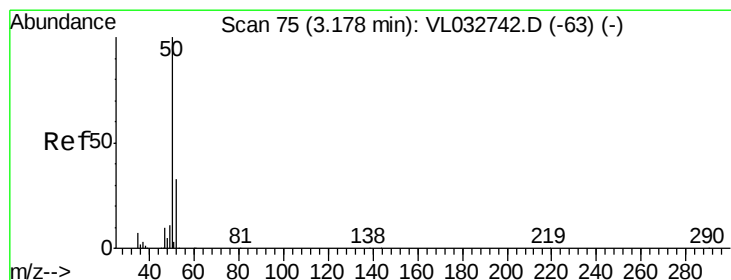
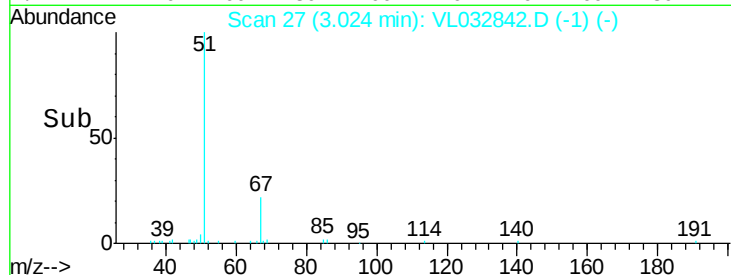
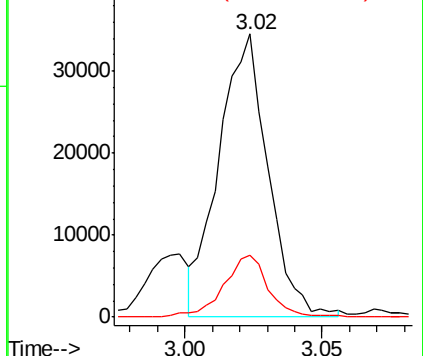
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.489 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032842.D

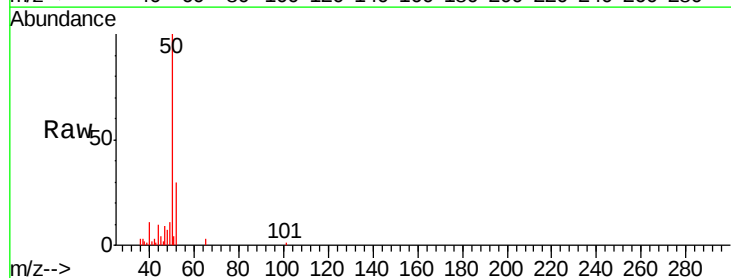
Acq: 29 Nov 2018 20:00

Tgt Ion: 50 Resp: 28205

Ion Ratio Lower Upper

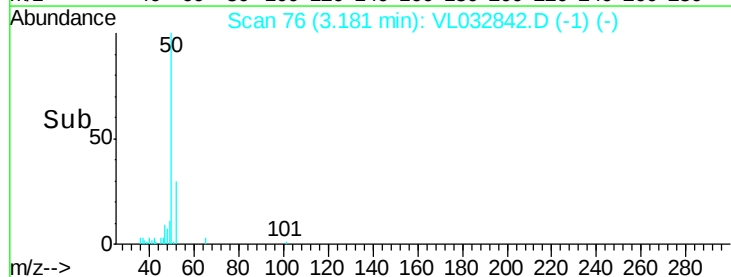
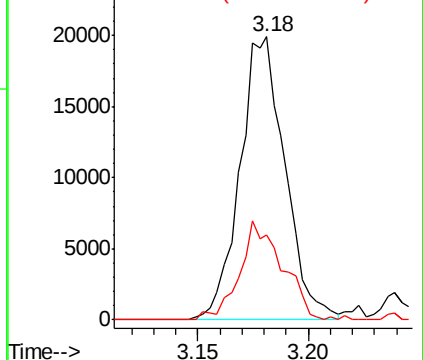
50 100

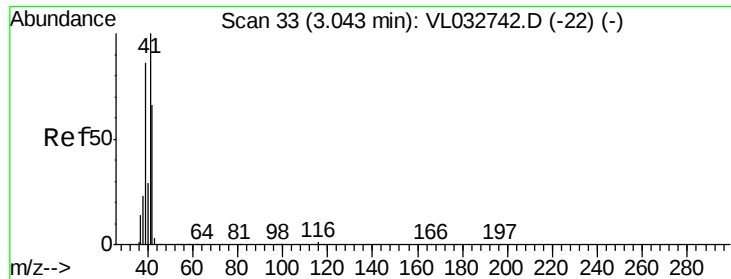
52 29.8 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.038 ppbv m

RT: 3.06 min Scan# 38

Delta R.T. 0.02 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Instrument :

MSVOA_L

ClientSampleId :

IAS-3

Tgt Ion: 41 Resp: 43216

Ion Ratio Lower Upper

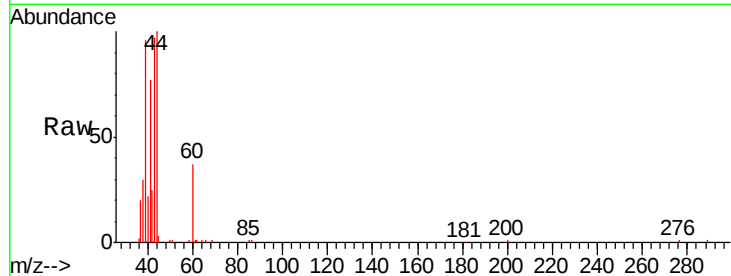
41 100

42 81.8 55.0 82.6

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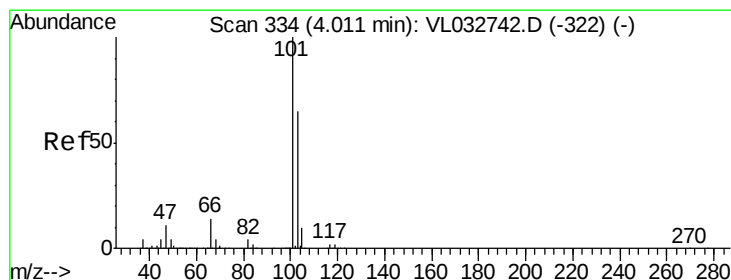
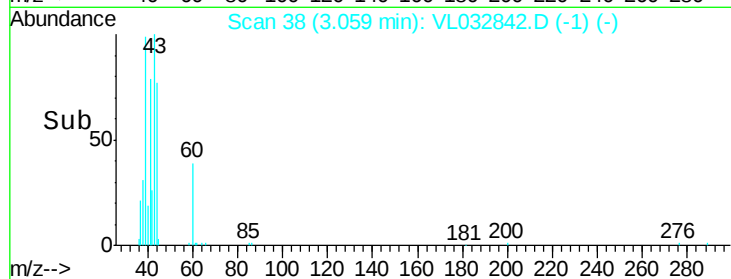
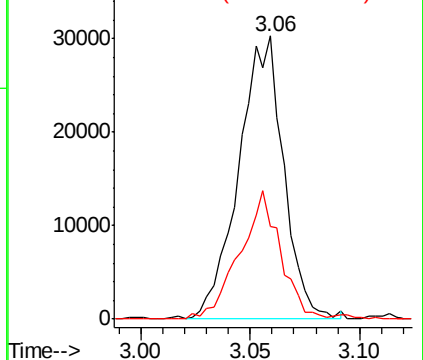
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.699 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032842.D

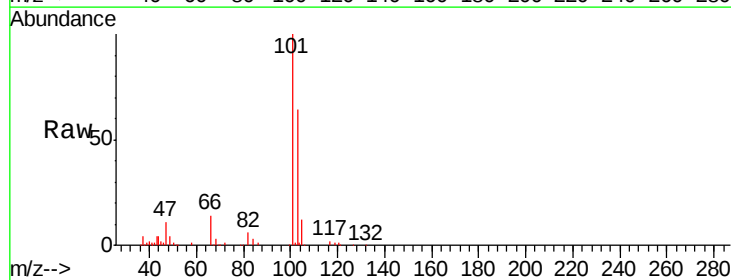
Acq: 29 Nov 2018 20:00

Tgt Ion: 101 Resp: 124289

Ion Ratio Lower Upper

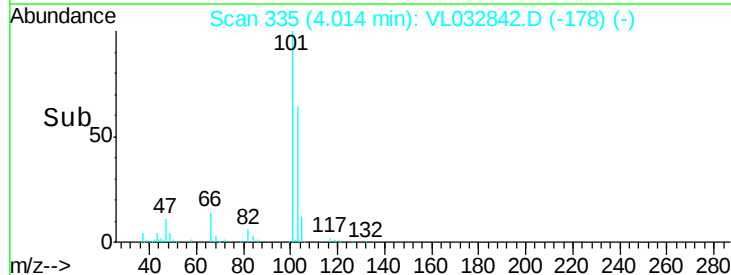
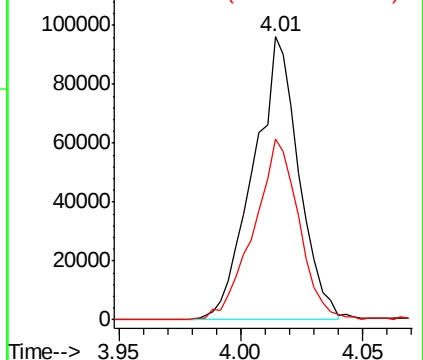
101 100

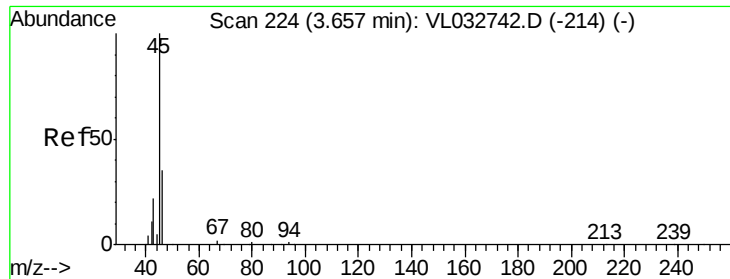
103 63.8 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





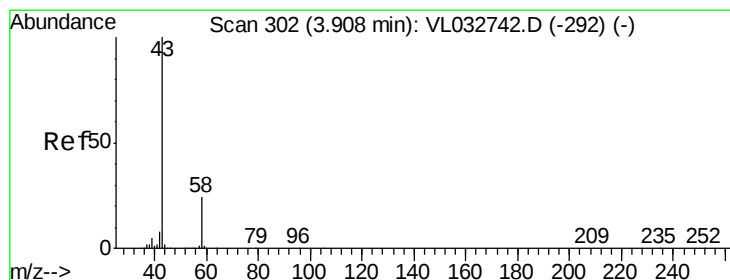
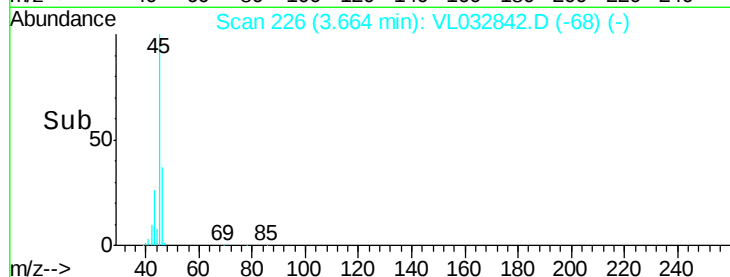
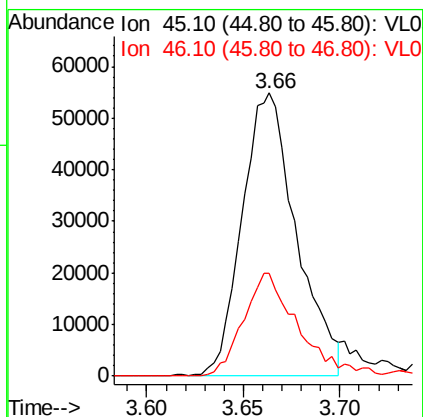
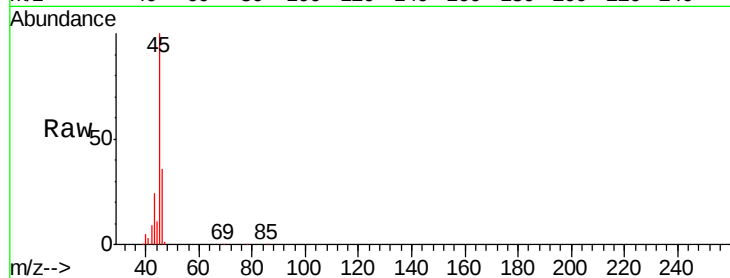
#13
Ethanol
Concen: 7.860 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Instrument :
MSVOA_L
ClientSampled :
IAS-3

Tgt Ion: 45 Resp: 107133
Ion Ratio Lower Upper
45 100
46 38.6 14.5 57.9

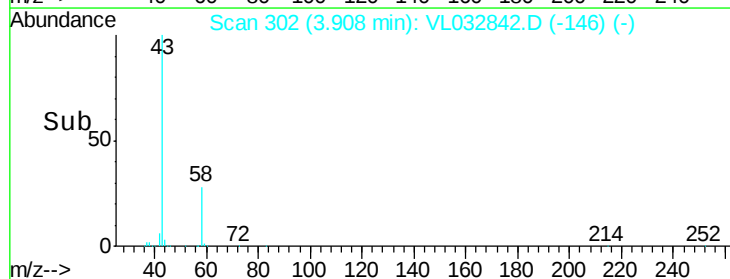
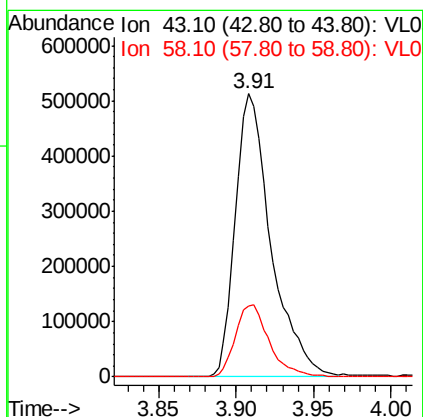
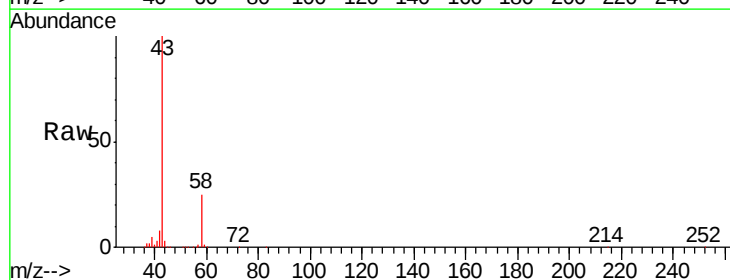
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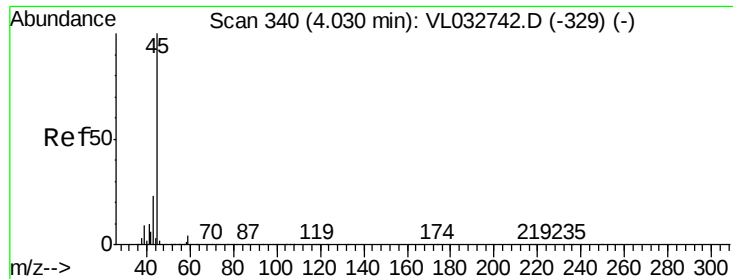
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#15
Acetone
Concen: 6.854 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Tgt Ion: 43 Resp: 820988
Ion Ratio Lower Upper
43 100
58 24.5 21.1 31.7





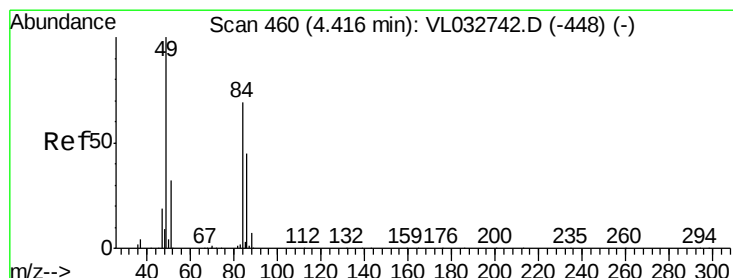
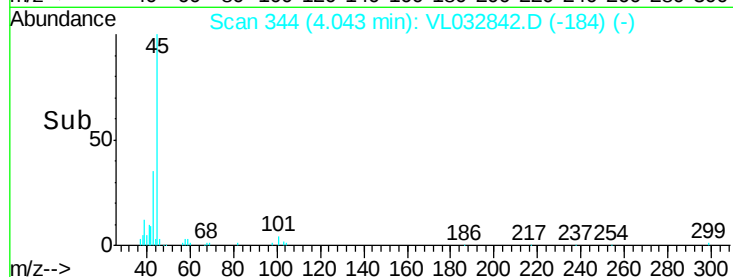
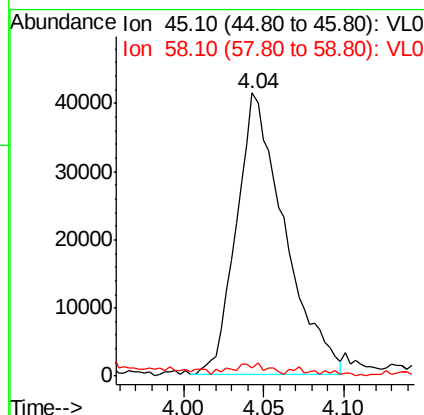
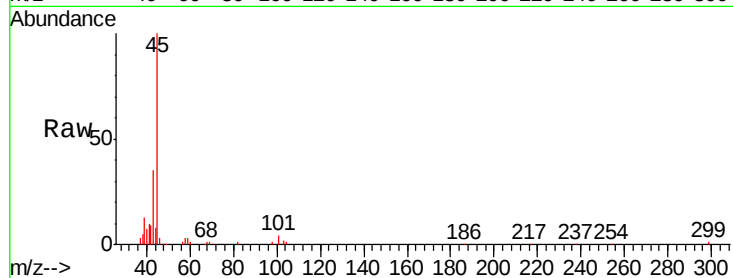
#19
Isopropyl Alcohol
Concen: 1.058 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Instrument :
MSVOA_L
ClientSampleId :
IAS-3

Tgt Ion: 45 Resp: 84398
Ion Ratio Lower Upper
45 100
58 236.7 1.4 2.0#

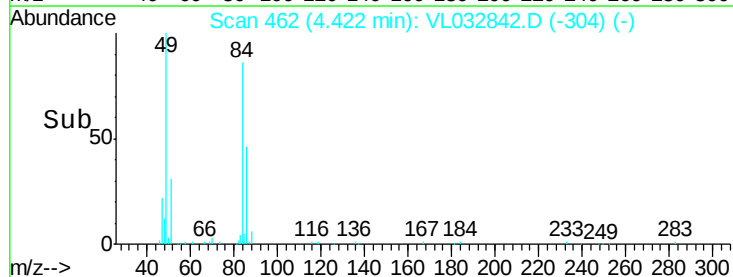
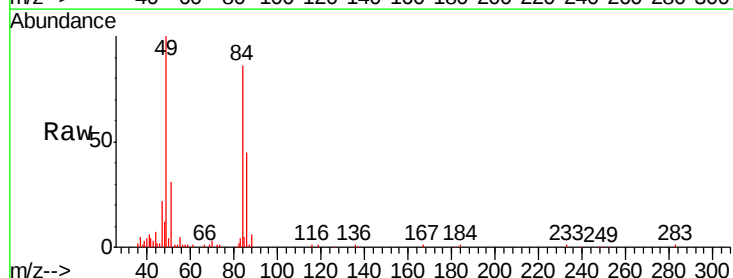
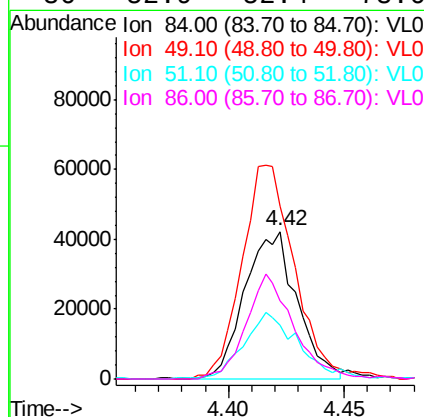
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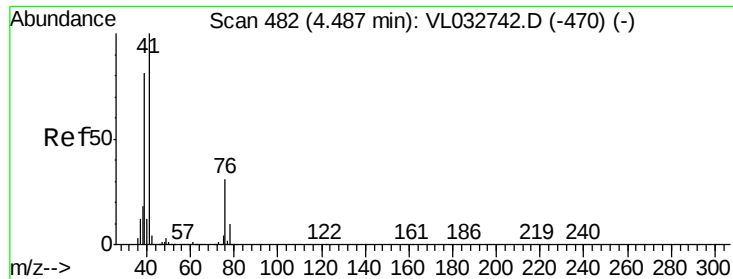
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#20
Methylene Chloride
Concen: 1.067 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.01 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Tgt Ion: 84 Resp: 66181
Ion Ratio Lower Upper
84 100
49 116.6 115.8 173.6
51 35.8 36.9 55.3#
86 52.9 52.4 78.6





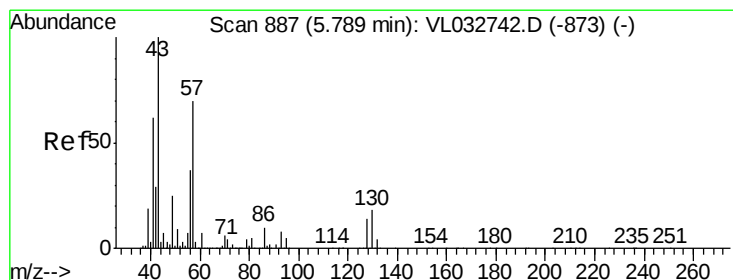
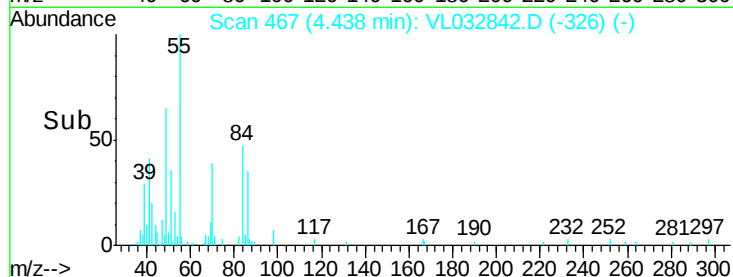
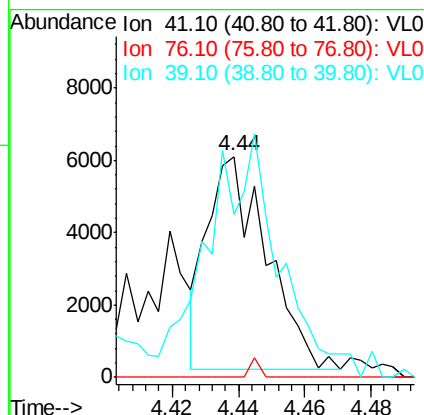
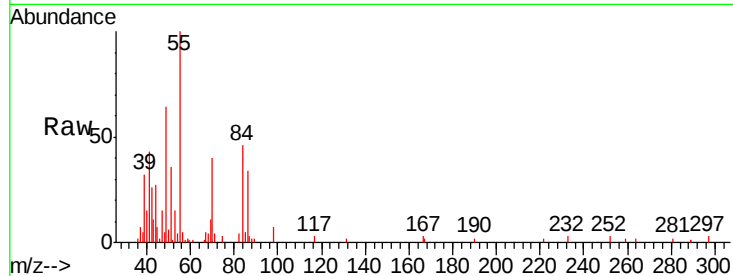
#21
 Allyl Chloride
 Concen: 0.072 ppbv
 RT: 4.44 min Scan# 467
 Delta R.T. -0.05 min
 Lab File: VL032842.D
 Acq: 29 Nov 2018 20:00

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-3

Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	141.4	63.5	95.3#

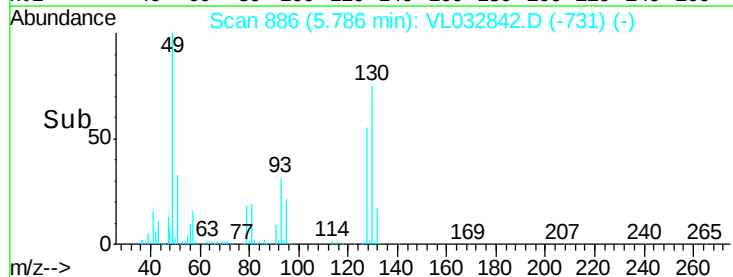
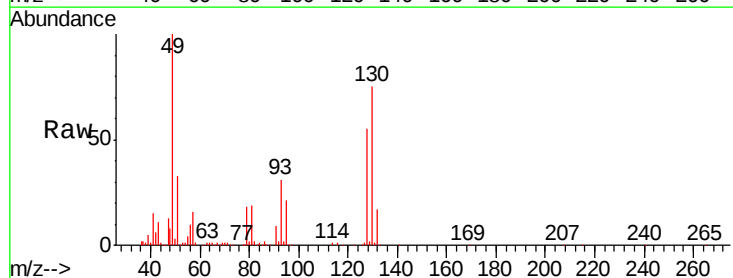
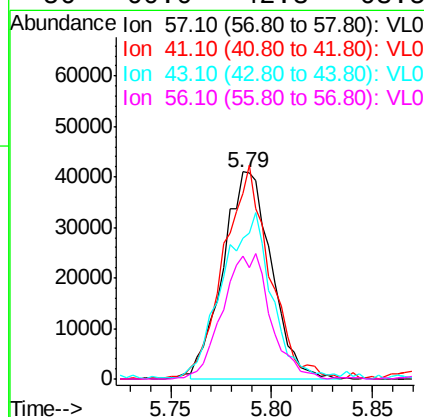
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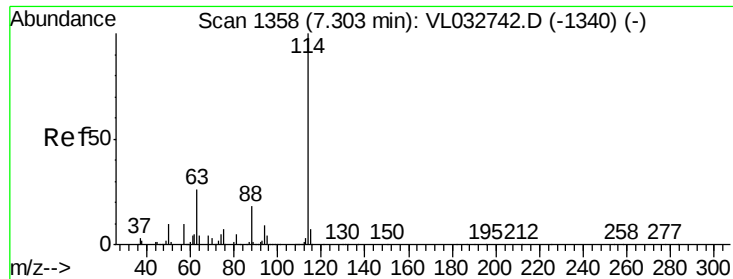
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#26
 Hexane
 Concen: 0.551 ppbv
 RT: 5.79 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VL032842.D
 Acq: 29 Nov 2018 20:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.1	70.3	105.5
43	84.3	174.0	261.0#
56	60.0	42.3	63.5





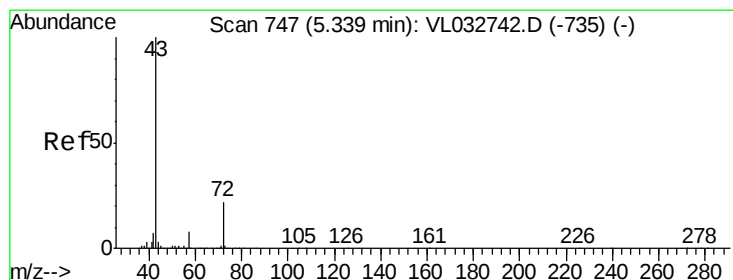
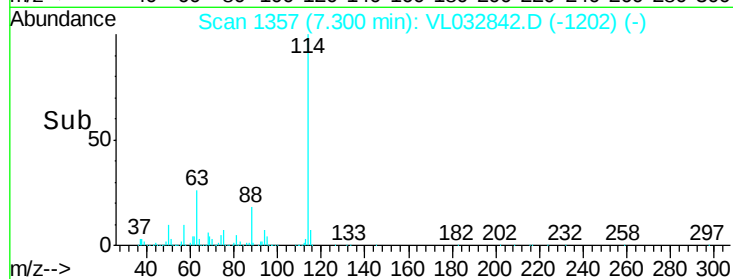
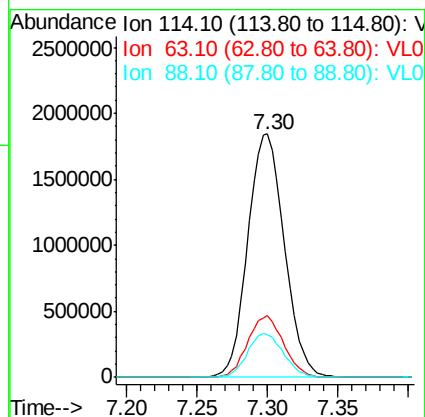
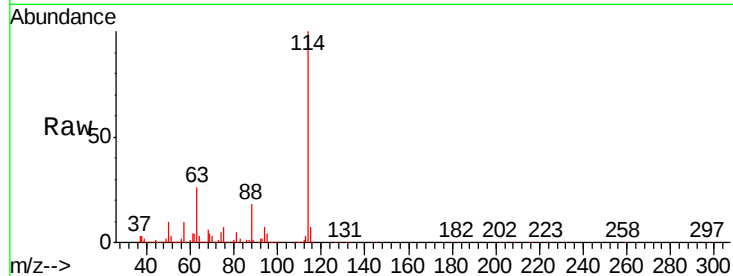
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032842.D
 Acq: 29 Nov 2018 20:00

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-3

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.9	31.3
88	18.0	14.4	21.6

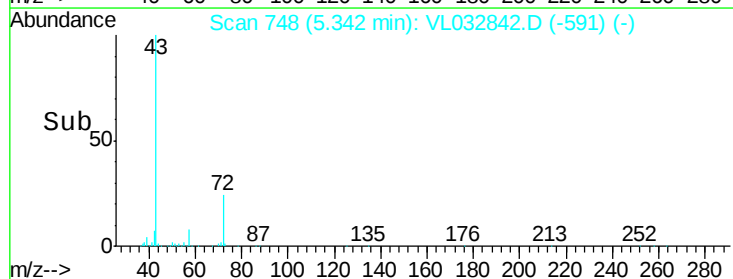
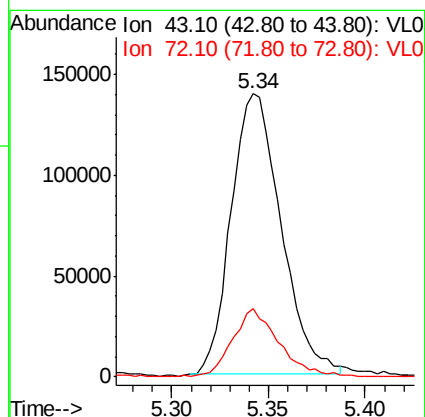
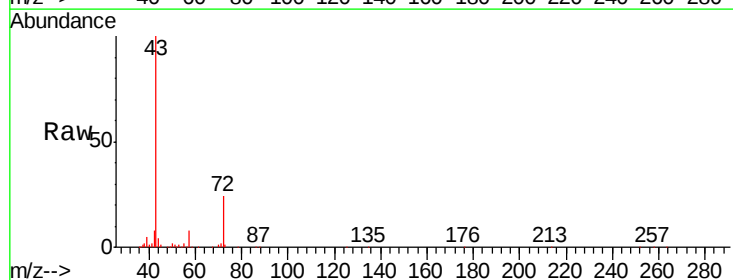
Manual Integrations
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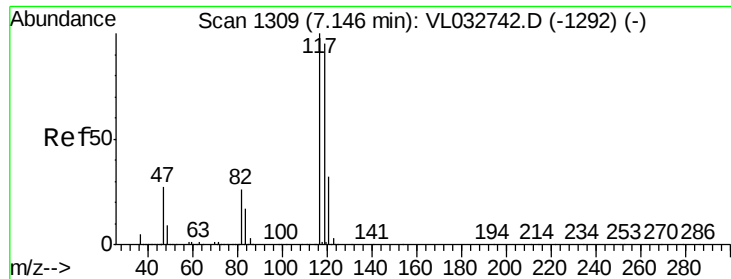
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#34
 2-Butanone
 Concen: 1.431 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032842.D
 Acq: 29 Nov 2018 20:00

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Instrument :

MSVOA_L

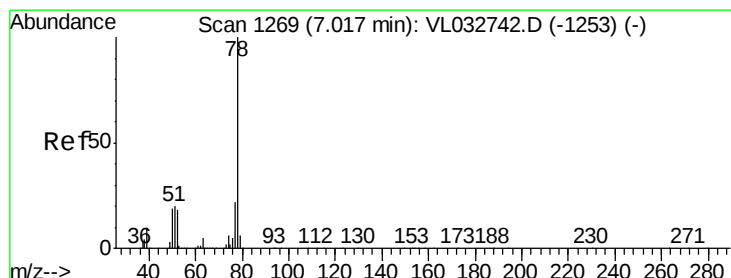
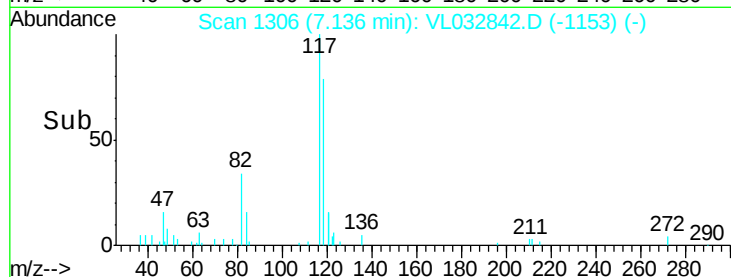
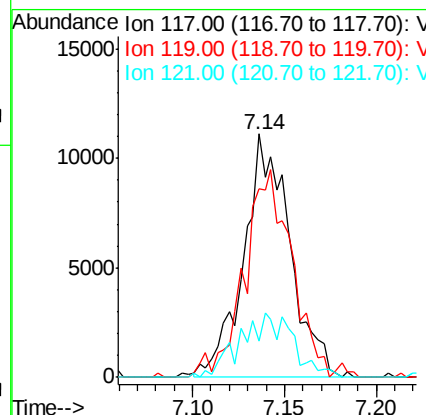
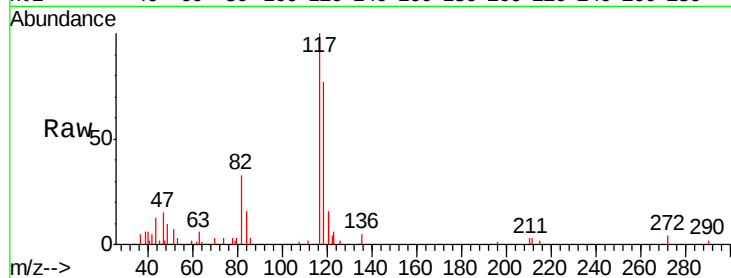
ClientSampled :

IAS-3

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	19355		
119	77.2	76.1	114.1	
121	15.0	25.4	38.0	

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#36

Benzene

Concen: 0.212 ppbv

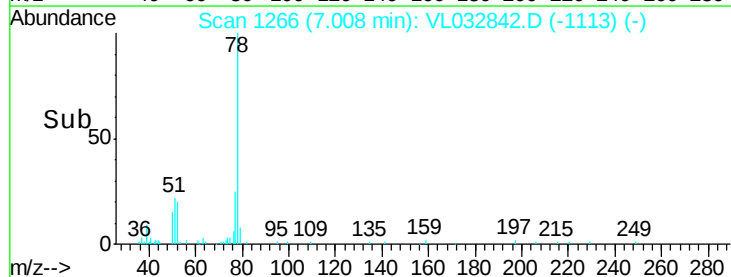
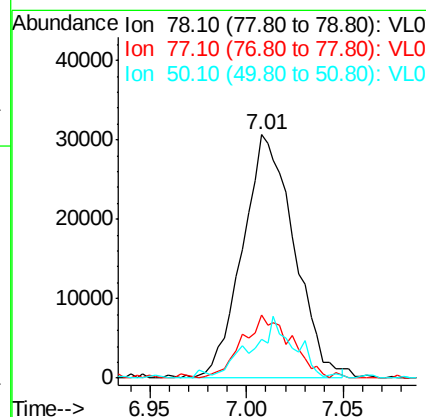
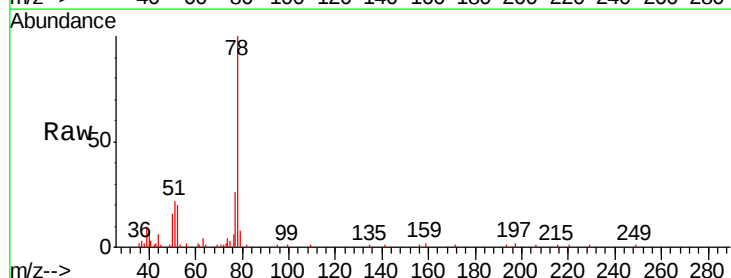
RT: 7.01 min Scan# 1266

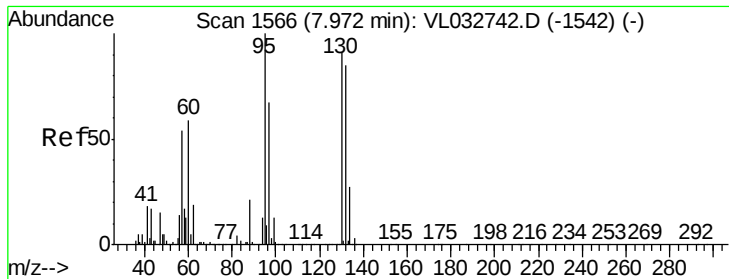
Delta R.T. -0.01 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	56628		
77	25.1	17.8	26.8	
50	14.8	15.4	23.0	





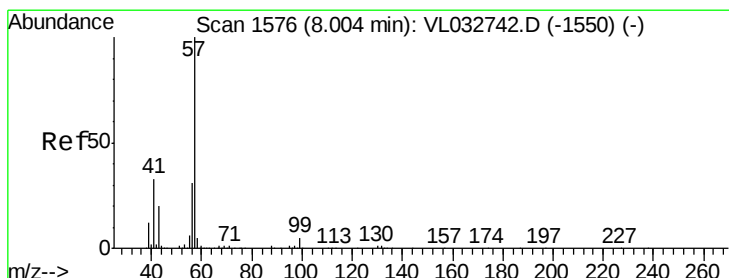
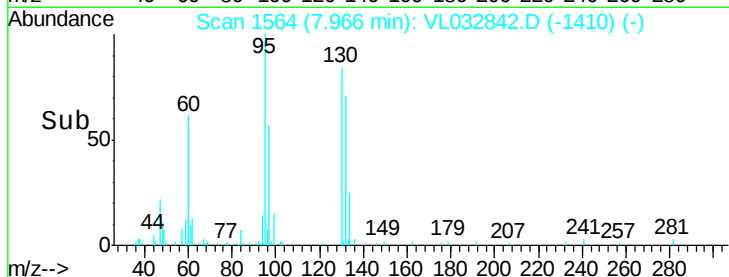
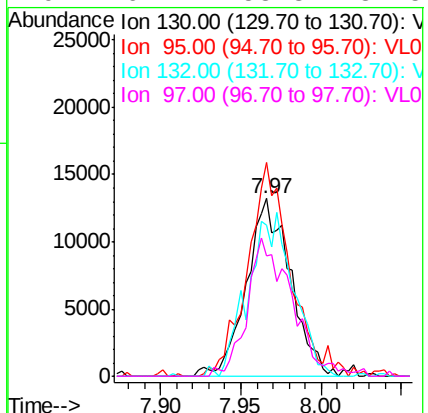
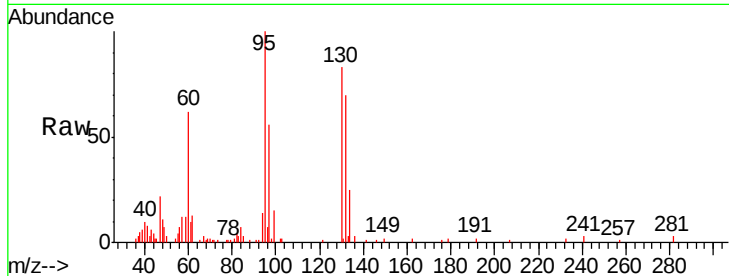
#38
 Trichloroethene
 Concen: 0.232 ppbv m
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: VL032842.D
 Acq: 29 Nov 2018 20:00

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-3

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.3	87.7	131.5
132	84.8	74.6	111.8
97	67.4	58.3	87.5

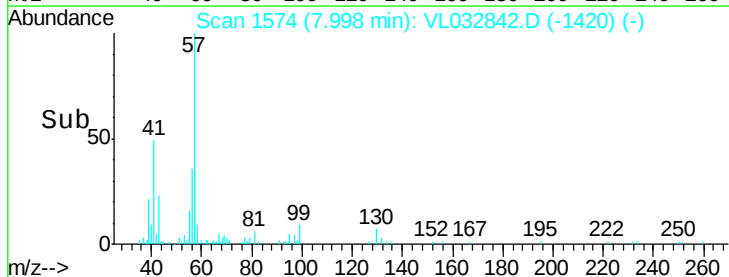
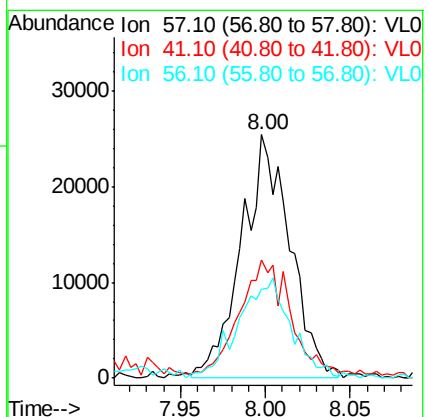
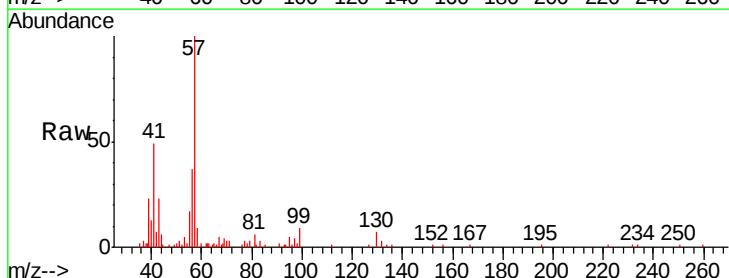
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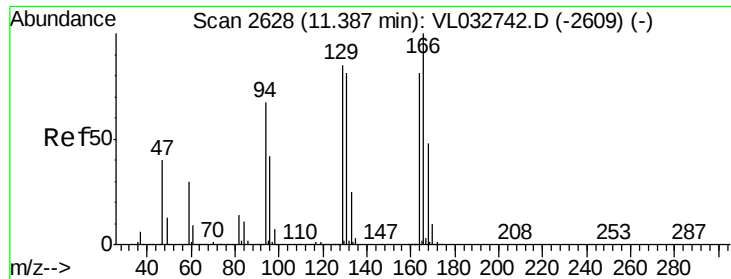
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#44
 2,2,4-Trimethylpentane
 Concen: 0.113 ppbv m
 RT: 8.00 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: VL032842.D
 Acq: 29 Nov 2018 20:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	55.8	26.6	39.8#
56	0.0	24.8	37.2#





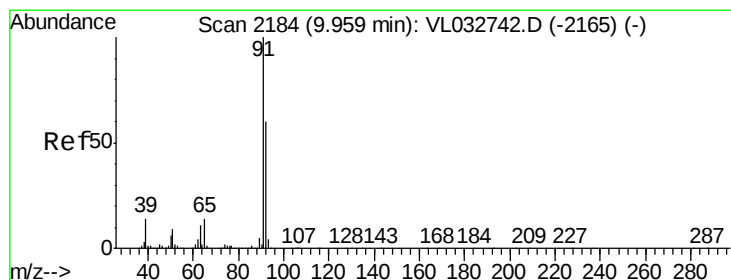
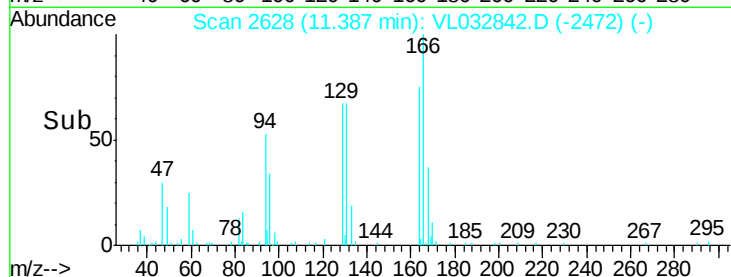
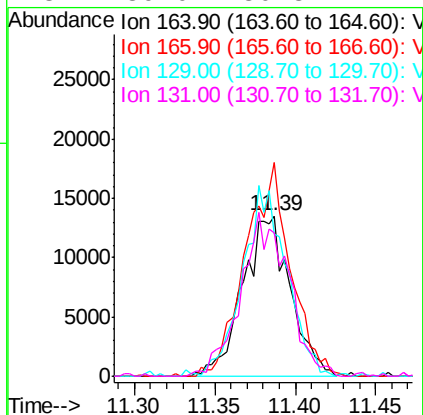
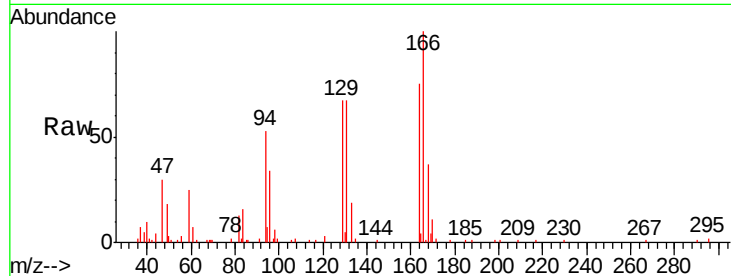
#52
Tetrachloroethene
Concen: 0.300 ppbv m
RT: 11.39 min Scan# 2628
Delta R.T. 0.00 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Instrument :
MSVOA_L
ClientSampled :
IAS-3

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.9	99.3	148.9
129	88.6	83.9	125.9
131	89.0	80.8	121.2

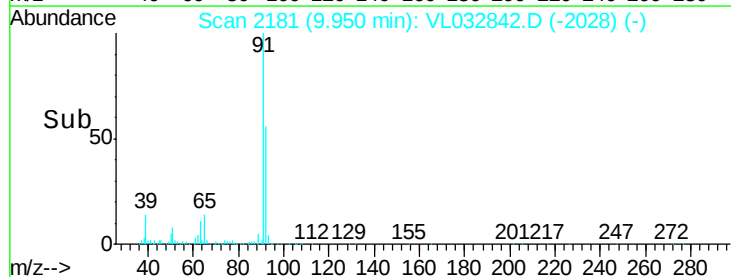
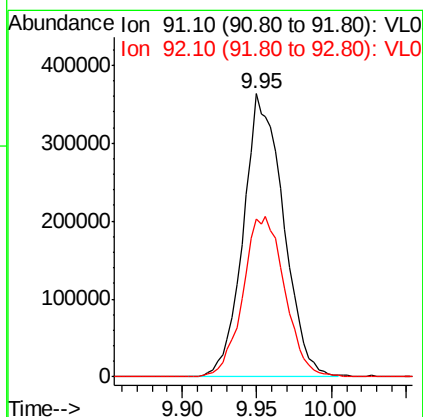
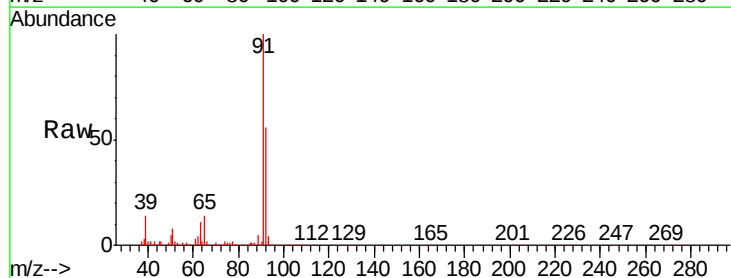
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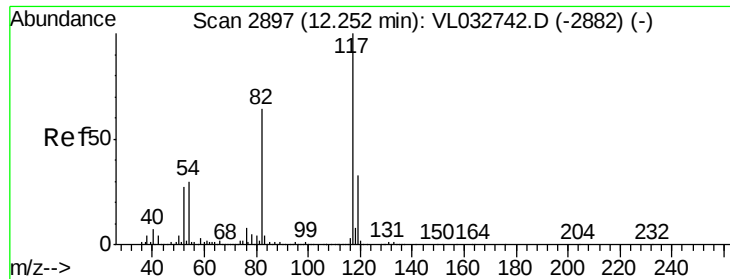
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#53
Toluene
Concen: 2.423 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.9	71.9





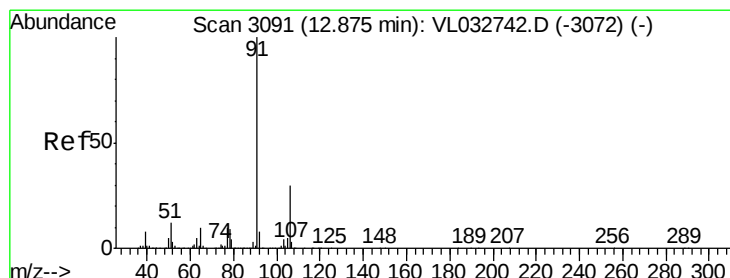
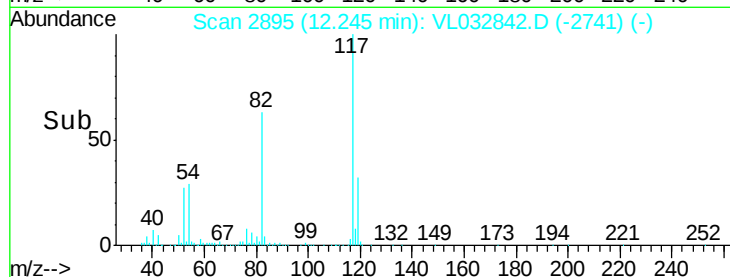
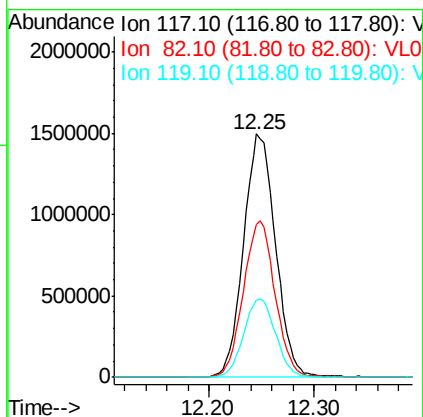
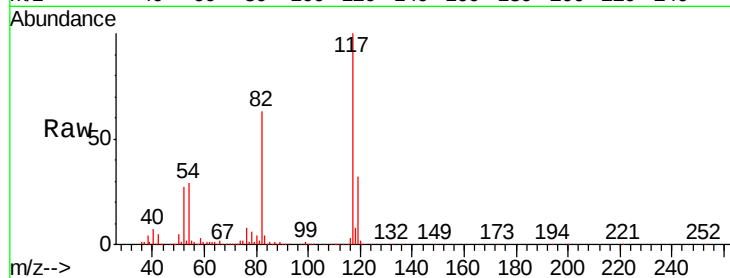
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Instrument :
MSVOA_L
ClientSampleId :
IAS-3

Tgt Ion: 117 Resp: 3166274
Ion Ratio Lower Upper
117 100
82 64.5 51.0 76.6
119 32.5 28.0 42.0

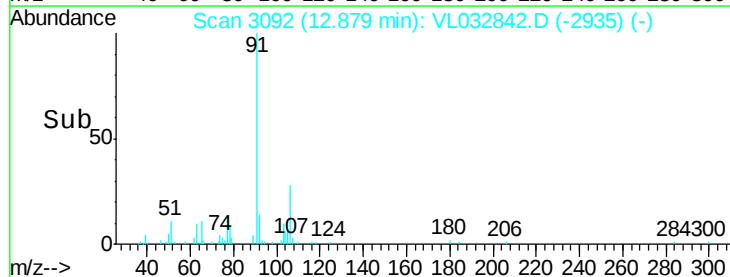
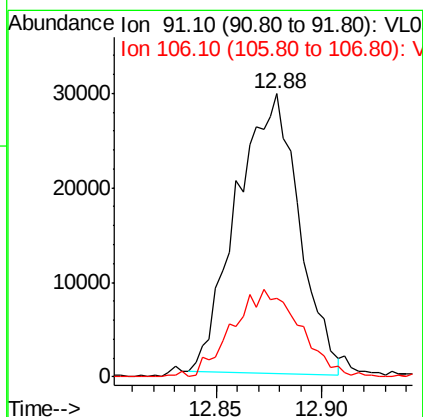
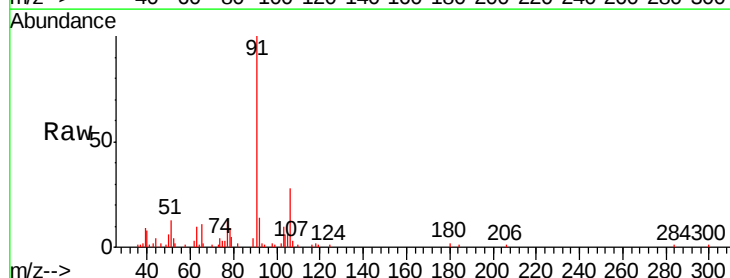
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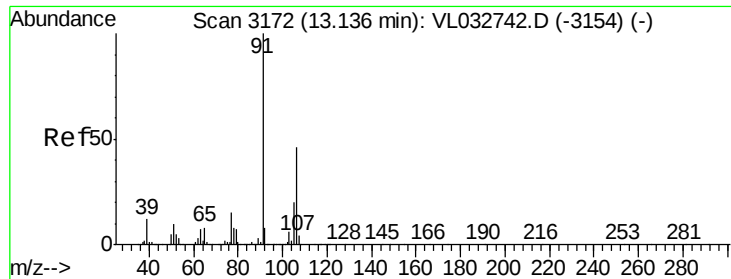
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#58
Ethyl Benzene
Concen: 0.159 ppbv
RT: 12.88 min Scan# 3092
Delta R.T. 0.00 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Tgt Ion: 91 Resp: 60746
Ion Ratio Lower Upper
91 100
106 28.2 23.6 35.4





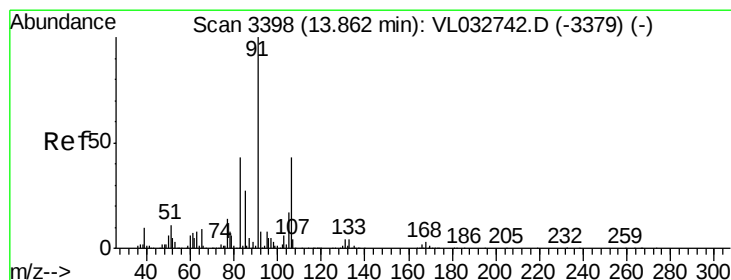
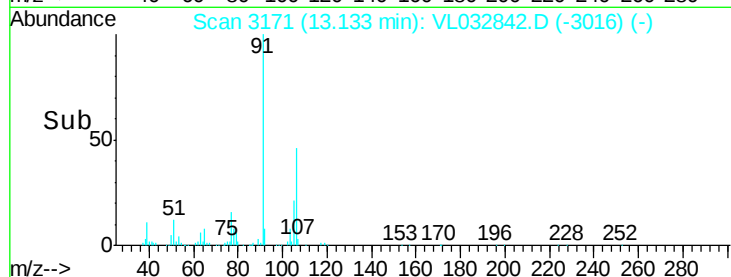
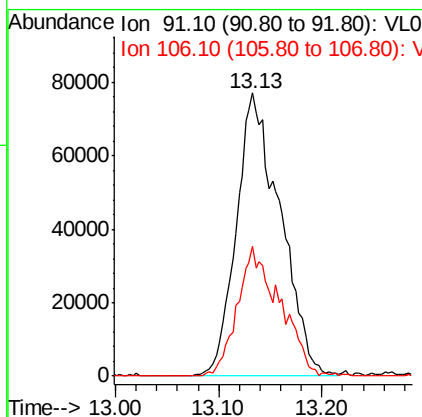
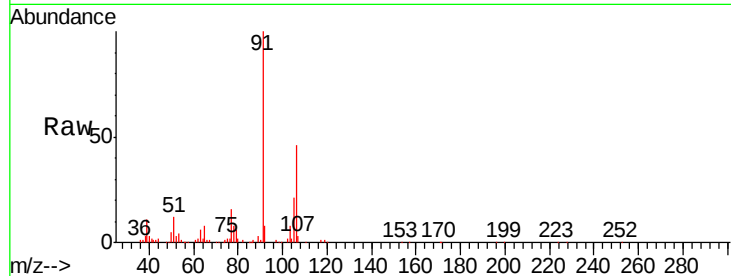
#59
m/p-Xylene
Concen: 0.670 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Instrument :
MSVOA_L
ClientSampled :
IAS-3

Tgt Ion: 91 Resp: 227331
Ion Ratio Lower Upper
91 100
106 44.4 36.1 54.1

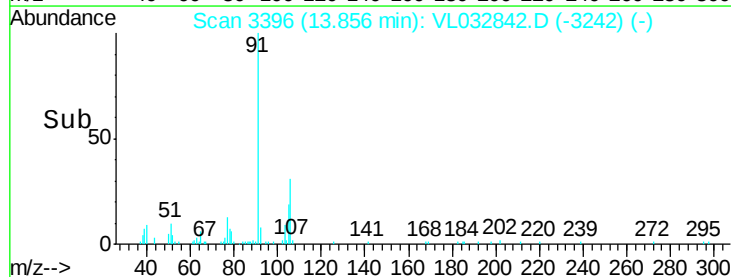
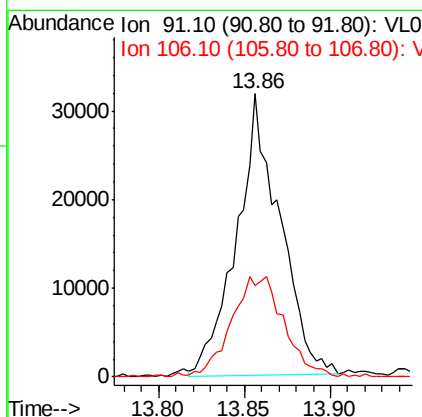
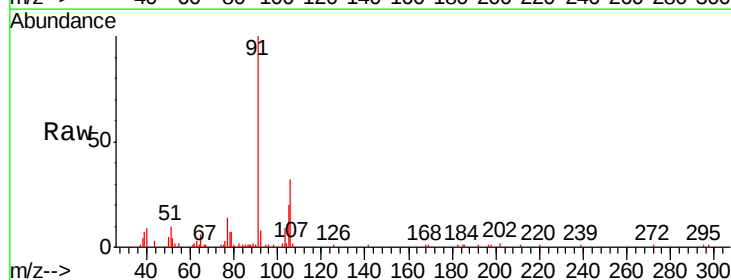
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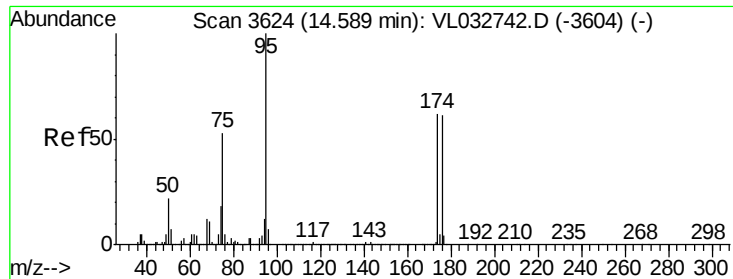
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#60
o-Xylene
Concen: 0.163 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032842.D
Acq: 29 Nov 2018 20:00

Tgt Ion: 91 Resp: 55467
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.389 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Instrument :

MSVOA_L

ClientSampled :

IAS-3

Tgt Ion: 95 Resp: 2460423

Ion Ratio Lower Upper

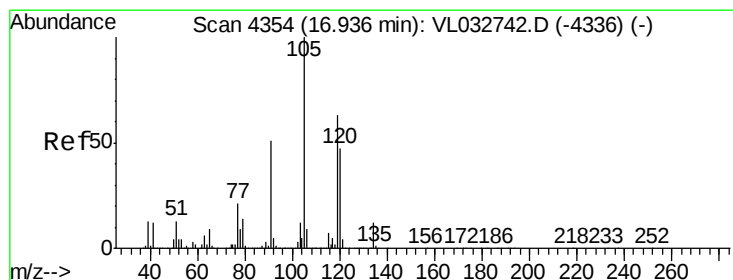
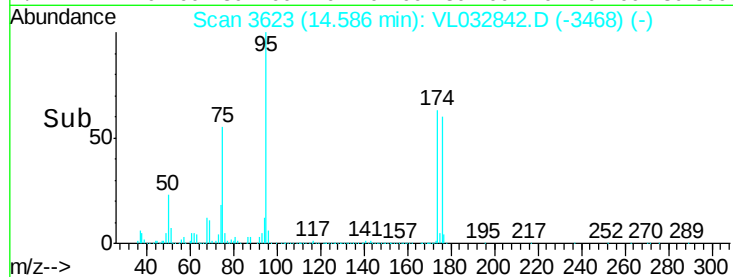
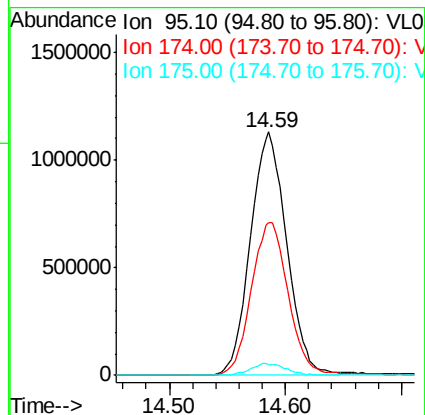
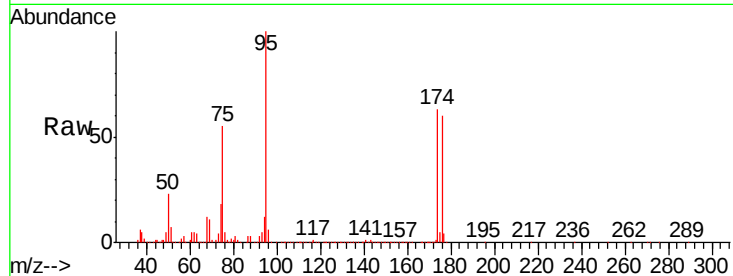
95 100

174 64.9 50.7 76.1

175 4.9 3.8 5.6

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.161 ppbv m

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL032842.D

Acq: 29 Nov 2018 20:00

Tgt Ion: 105 Resp: 62821

Ion Ratio Lower Upper

105 100

120 42.3 37.6 56.4

91 11.9 42.5 63.7#

77 13.5 17.4 26.2#

