

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032796.D
 Acq On : 21 Nov 2018 2:36
 Operator : SY/AP
 Sample : J5998-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-104

Manual Integrations
 APPROVED

MMDadoda

Quant Time: Nov 21 06:14:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	11/26/2018 9:18:55 AM
1) Bromochloromethane	5.77	49	1283195	10.00	ppbv	0.00	
33) 1,4-Difluorobenzene	7.30	114	3313997	10.00	ppbv	0.00	
55) Chlorobenzene-d5	12.25	117	3020886	10.00	ppbv	0.00	

System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.59	95	2242829	9.93	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	78067	0.423	ppbv	89
3) Chlorodifluoromethane	3.02	51	47552m	0.467	ppbv	
4) Chloromethane	3.18	50	24129	0.428	ppbv #	86
9) Propene	3.06	41	38239m	0.939	ppbv	
11) Trichlorofluoromethane	4.01	101	93495	0.538	ppbv	99
13) Ethanol	3.66	45	1526023	114.440	ppbv	100
15) Acetone	3.91	43	338528	2.889	ppbv	96
19) Isopropyl Alcohol	4.04	45	132969	1.703	ppbv #	94
20) Methylene Chloride	4.42	84	93887	1.548	ppbv #	83
26) Hexane	5.79	57	146692	1.207	ppbv #	48
34) 2-Butanone	5.35	43	57630	0.335	ppbv	94
35) Carbon Tetrachloride	7.15	117	18896	0.071	ppbv #	93
36) Benzene	7.01	78	55073m	0.209	ppbv	
53) Toluene	9.95	91	5352616	19.442	ppbv	99
59) m/p-Xylene	13.13	91	42908m	0.133	ppbv	

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

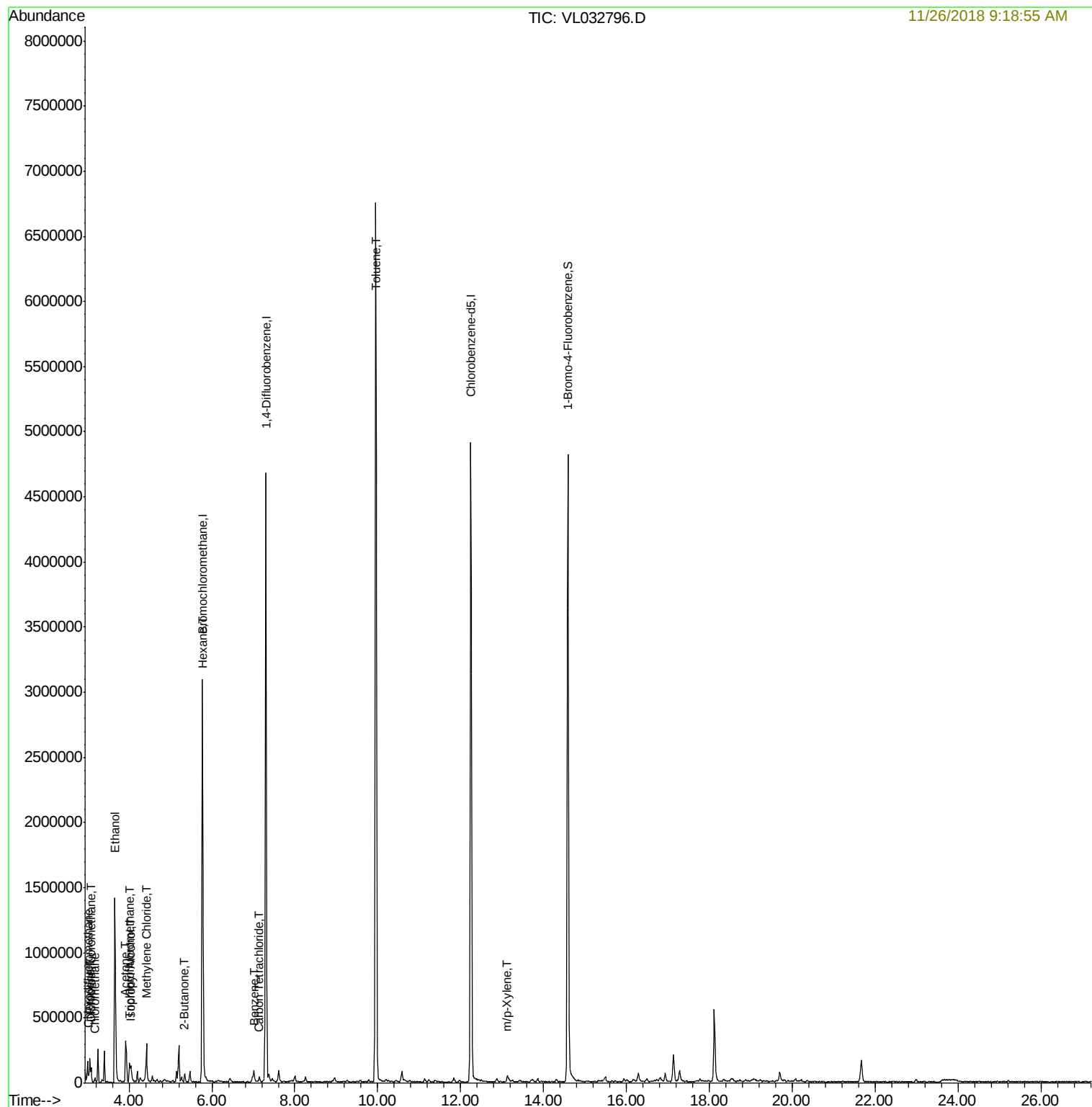
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032796.D
Acq On : 21 Nov 2018 2:36
Operator : SY/AP
Sample : J5998-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

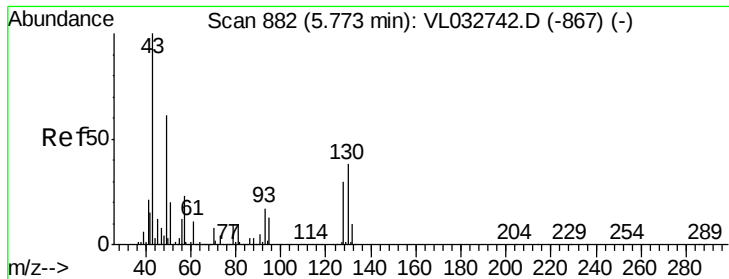
Instrument :
MSVOA_L
ClientSampleId :
IA-104

Manual Integrations
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Quant Time: Nov 21 06:14:26 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: VL032796.D

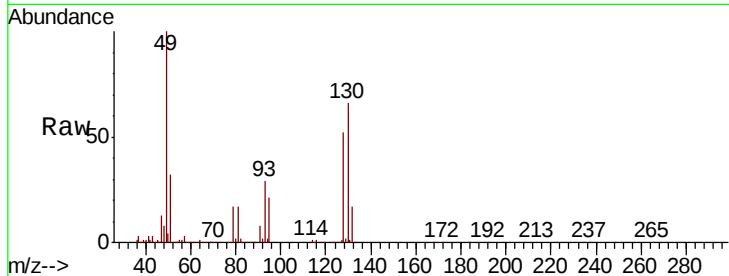
Acq: 21 Nov 2018 2:36

Instrument :
MSVOA_L
ClientSampleId :
IA-104

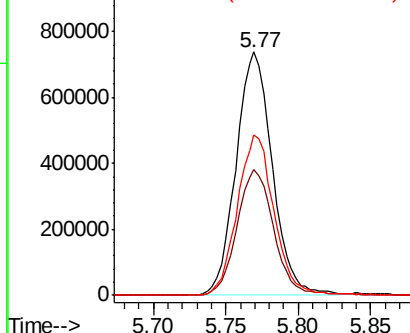
Tot Ion	Ratio	Lower	Upper
49	100		
128	53.0	24.9	74.6
130	67.0	31.4	94.2

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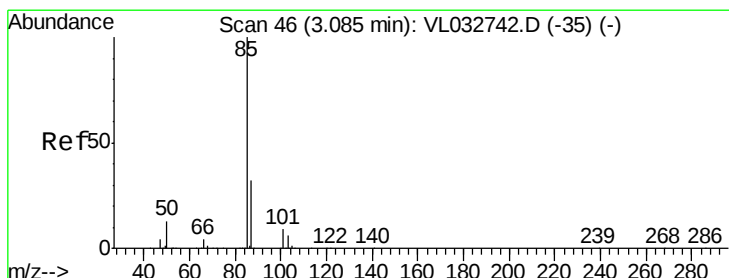
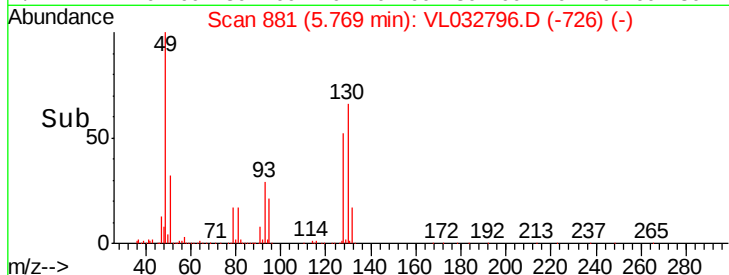
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



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#2

Dichlorodifluoromethane

Concen: 0.423 ppbv

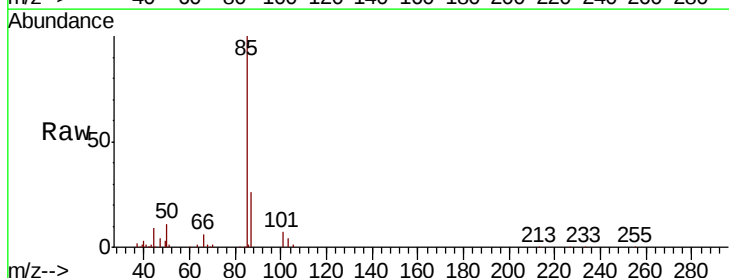
RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

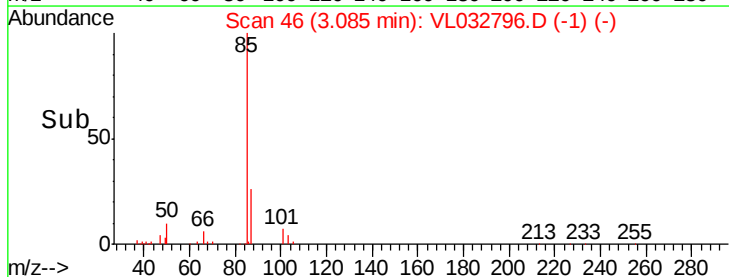
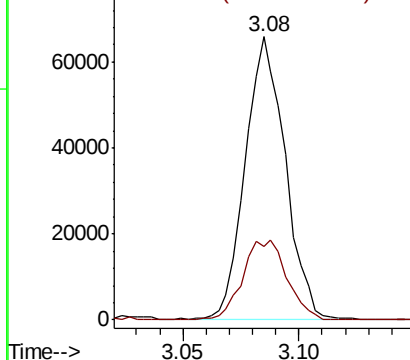
Lab File: VL032796.D

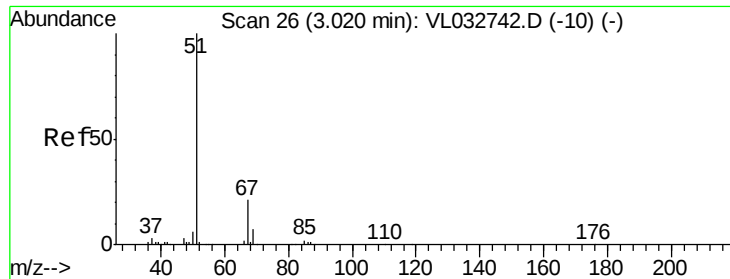
Acq: 21 Nov 2018 2:36

Tgt Ion	Ratio	Lower	Upper
85	100		
87	26.2	26.0	39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.467 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampleId :

IA-104

Tot Ion: 51 Resp: 47552

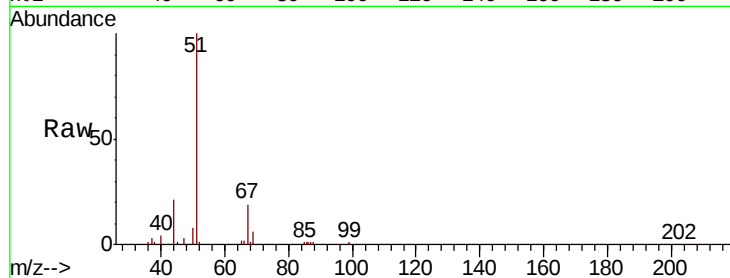
Ion Ratio Lower Upper

51 100

67 24.7 16.1 24.1#

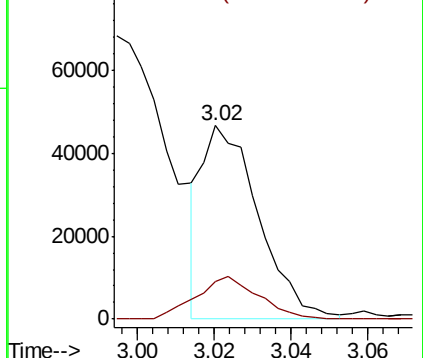
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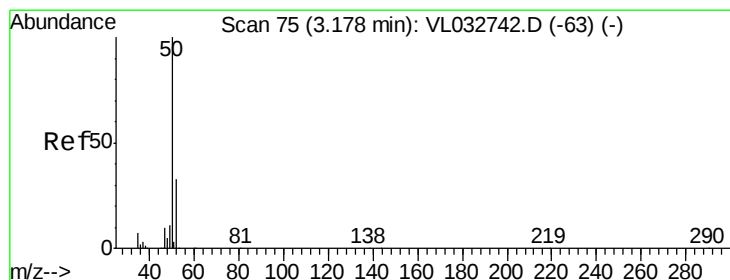
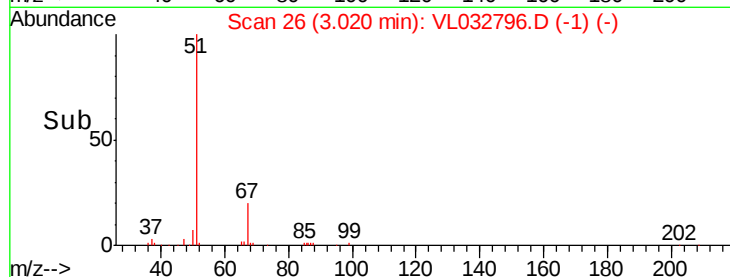


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



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#4

Chloromethane

Concen: 0.428 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032796.D

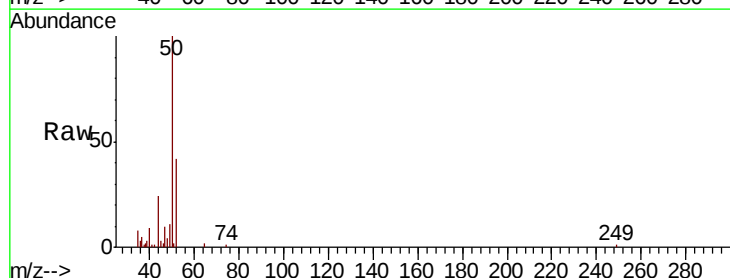
Acq: 21 Nov 2018 2:36

Tgt Ion: 50 Resp: 24129

Ion Ratio Lower Upper

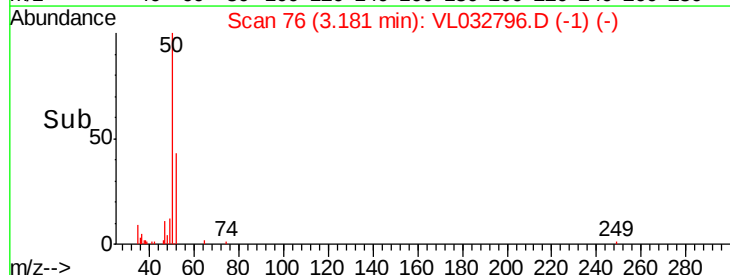
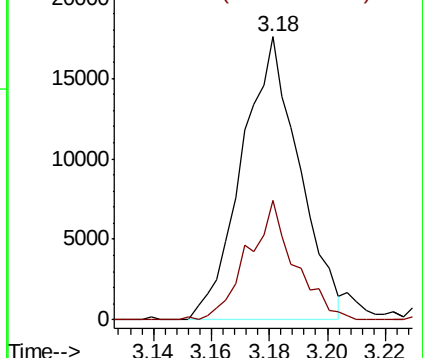
50 100

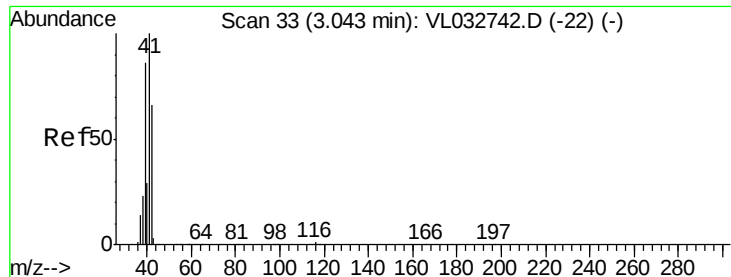
52 41.1 26.6 40.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.939 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampled :

IA-104

Tot Ion: 41 Resp: 38239

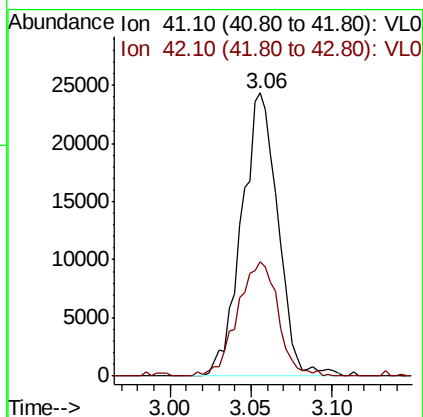
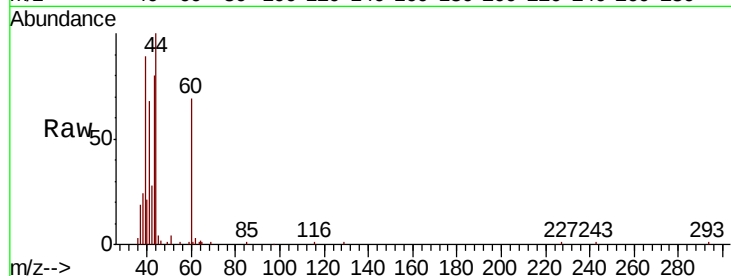
Ion Ratio Lower Upper

41 100

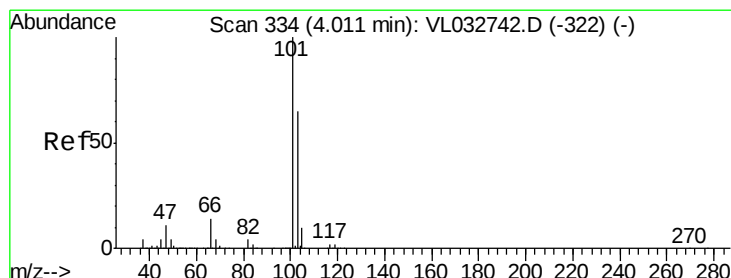
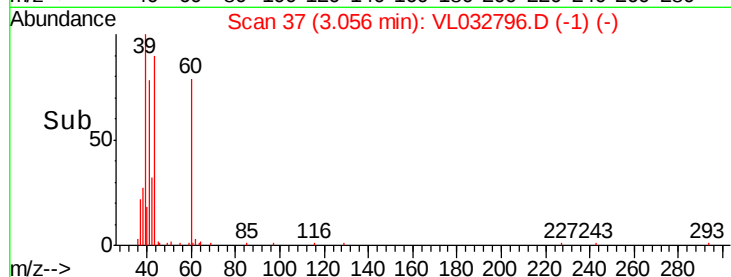
42 111.0 55.0 82.6#

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#11

Trichlorofluoromethane

Concen: 0.538 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032796.D

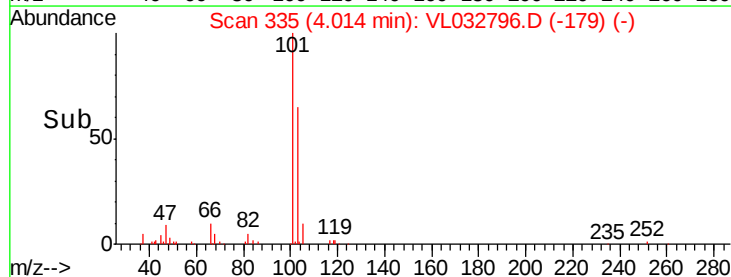
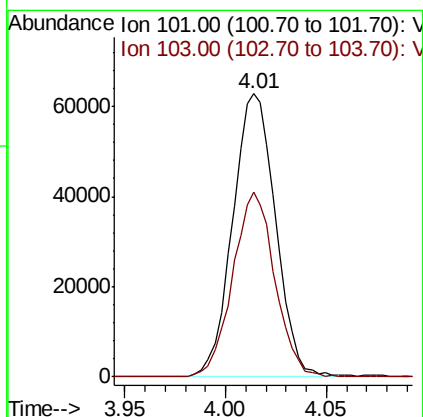
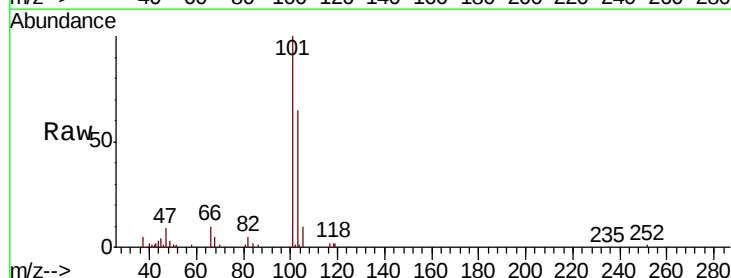
Acq: 21 Nov 2018 2:36

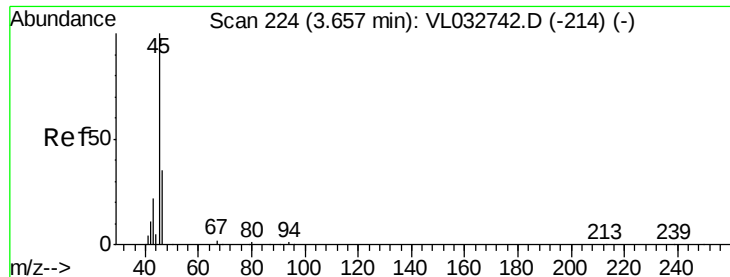
Tgt Ion: 101 Resp: 93495

Ion Ratio Lower Upper

101 100

103 65.3 51.6 77.4





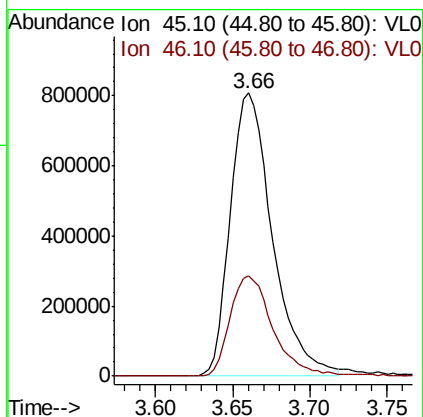
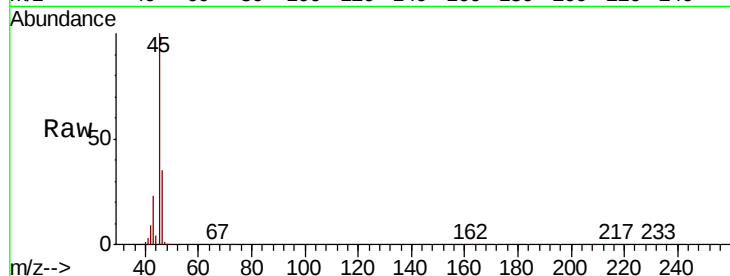
#13
Ethanol
Concen: 114.440 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Instrument :
MSVOA_L
ClientSampleId :
IA-104

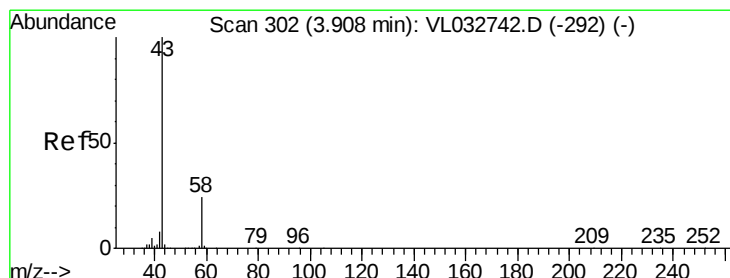
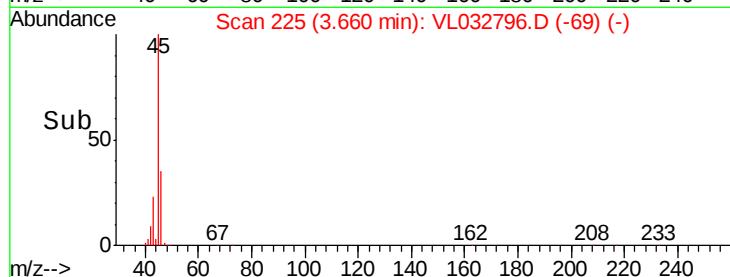
Tot Ion: 45 Resp: 1526023
Ion Ratio Lower Upper
45 100
46 36.4 14.5 57.9

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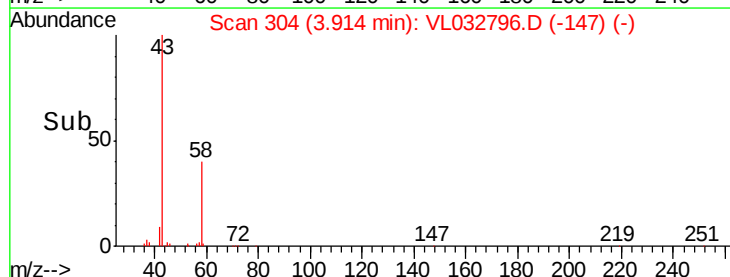
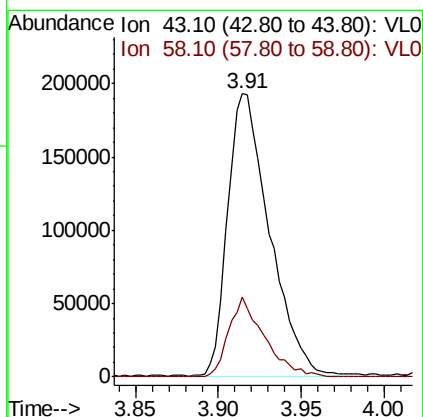
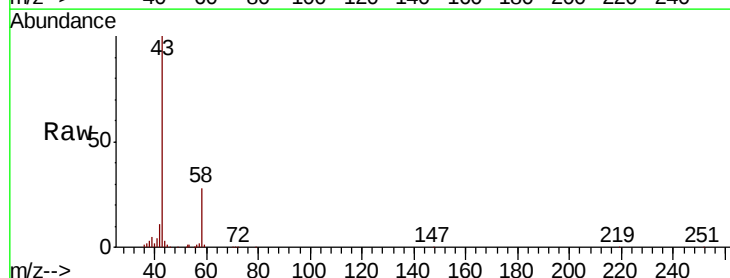


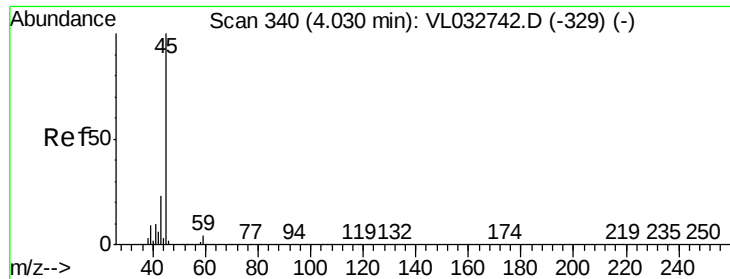
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#15
Acetone
Concen: 2.889 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.01 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion: 43 Resp: 338528
Ion Ratio Lower Upper
43 100
58 24.3 21.1 31.7





#19

Isopropyl Alcohol

Concen: 1.703 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampleId :

IA-104

Tot Ion: 45 Resp: 132969

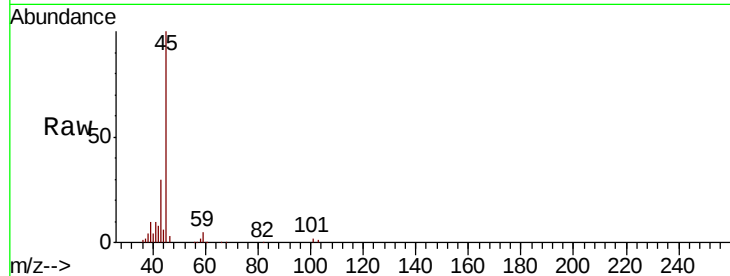
Ion Ratio Lower Upper

45 100

58 4.0 1.4 2.0#

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

80000

60000

40000

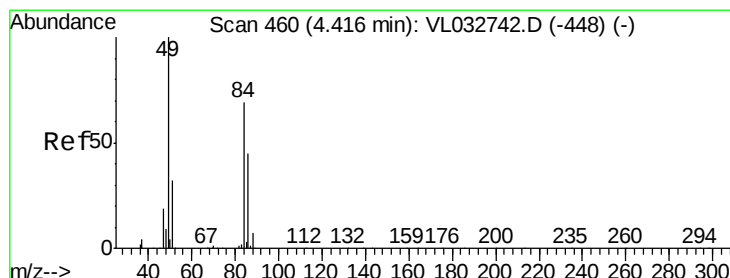
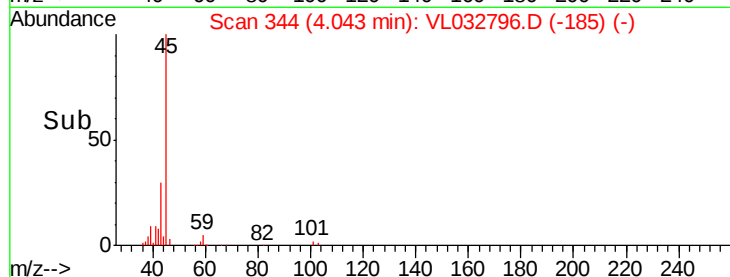
20000

0

Time-->

4.00 4.05 4.10

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#20

Methylene Chloride

Concen: 1.548 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Tgt Ion: 84 Resp: 93887

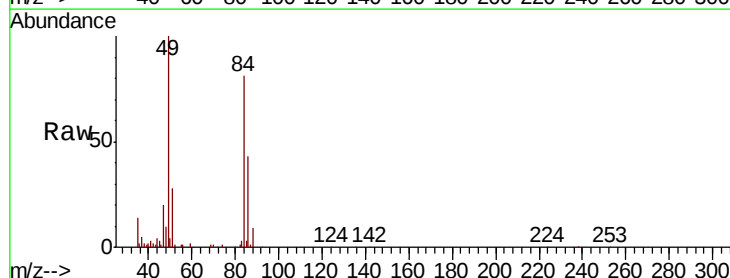
Ion Ratio Lower Upper

84 100

49 122.3 115.8 173.6

51 33.9 36.9 55.3#

86 53.2 52.4 78.6



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

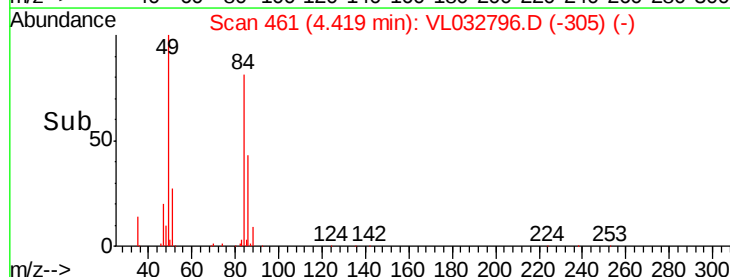
100000

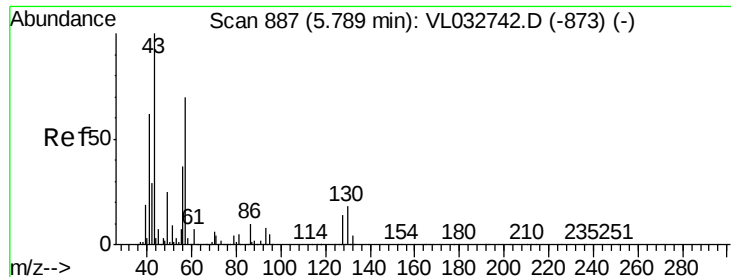
50000

0

Time-->

4.35 4.40 4.45





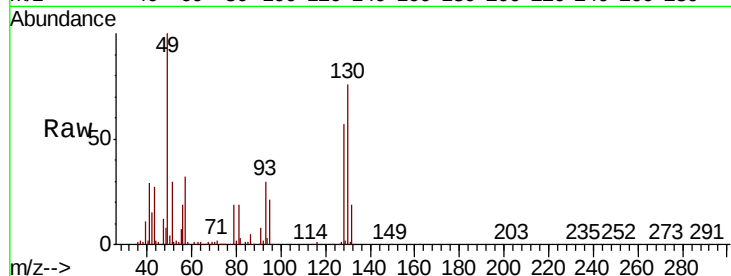
#26
Hexane
Concen: 1.207 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Instrument :
MSVOA_L
ClientSampled :
IA-104

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.0	70.3	105.5
43	91.8	174.0	261.0#
56	58.6	42.3	63.5

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Abundance

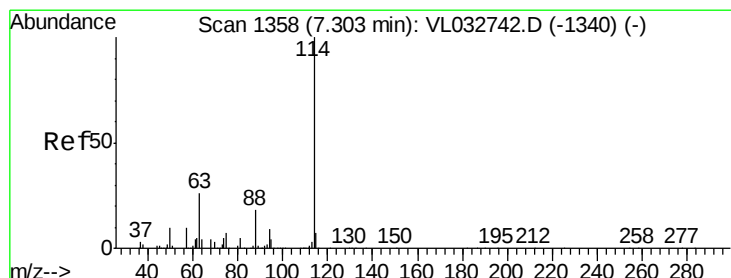
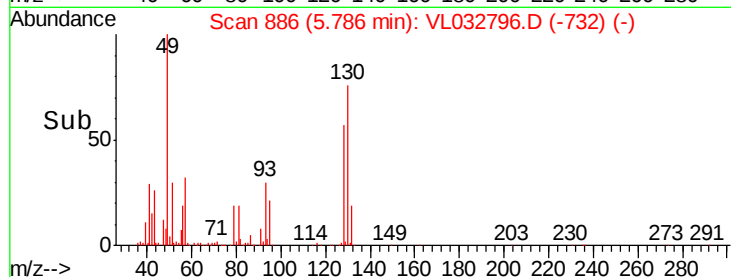
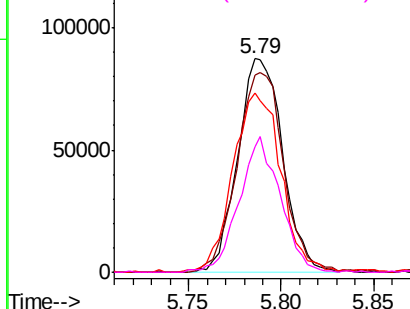
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

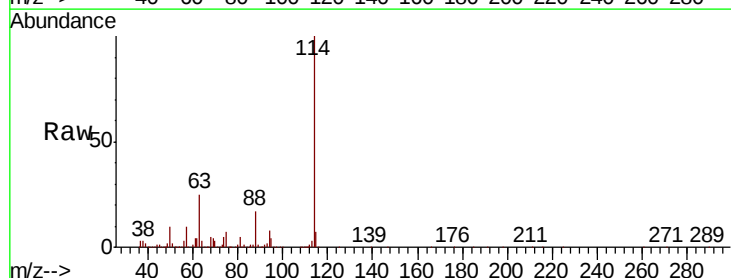
Ion 56.10 (55.80 to 56.80): VL0

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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.9	31.3
88	17.9	14.4	21.6

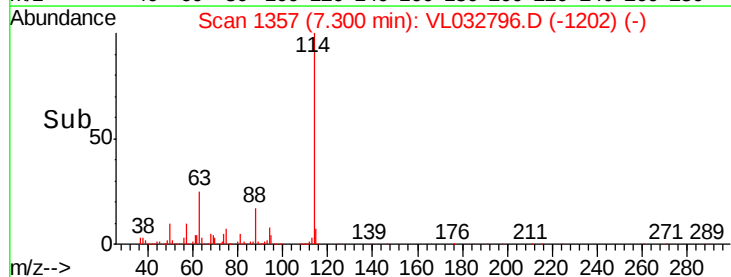
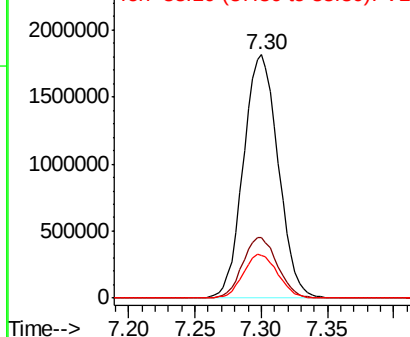


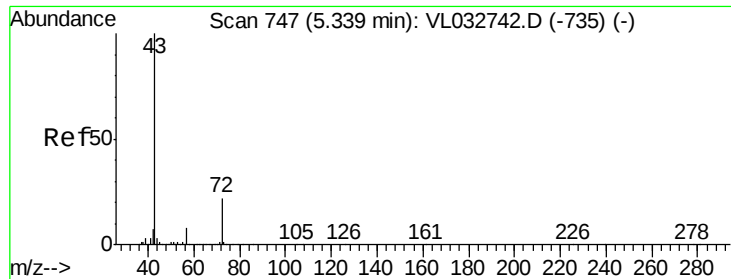
Abundance

Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





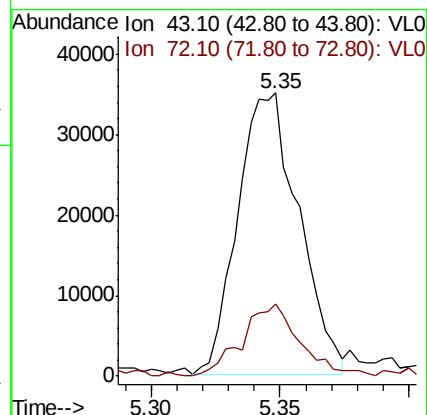
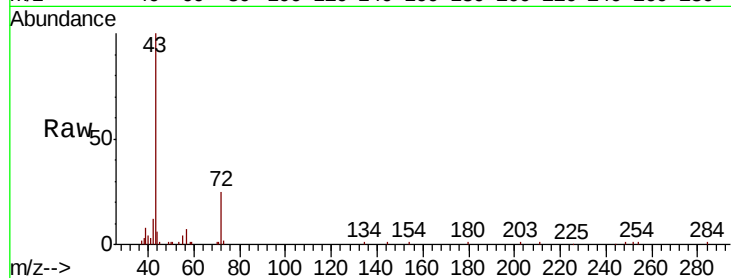
#34
2-Butanone
Concen: 0.335 ppbv
RT: 5.35 min Scan# 750
Delta R.T. 0.01 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Instrument :
MSVOA_L
ClientSampleId :
IA-104

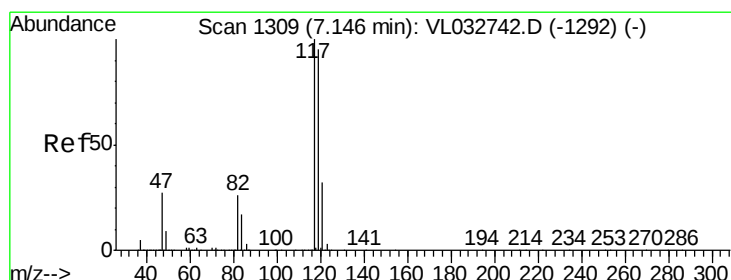
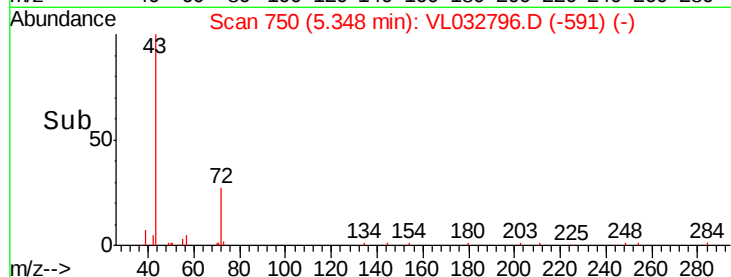
Tot Ion	Ratio	Lower	Upper
43	100		
72	25.8	18.4	27.6

Manual Integrations
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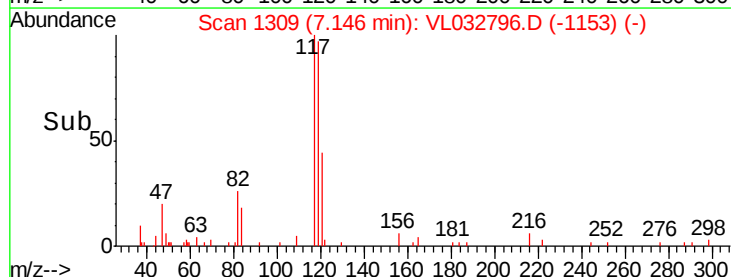
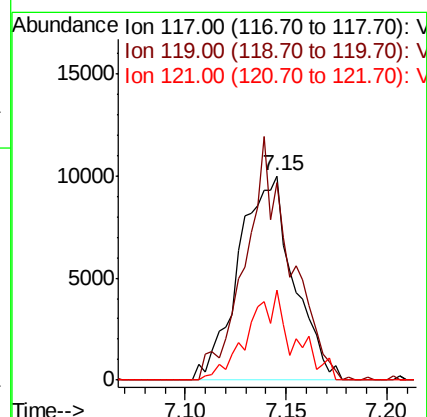
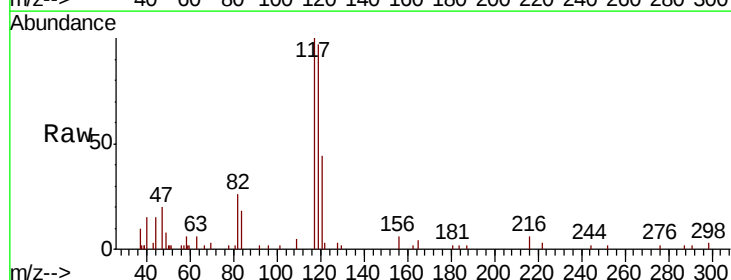


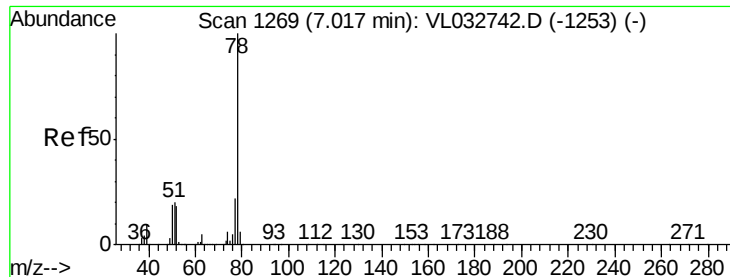
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#35
Carbon Tetrachloride
Concen: 0.071 ppbv
RT: 7.15 min Scan# 1309
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.1	114.1
121	44.4	25.4	38.0#





#36

Benzene

Concen: 0.209 ppbv m

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

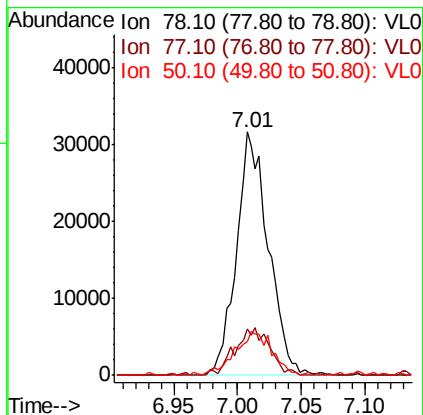
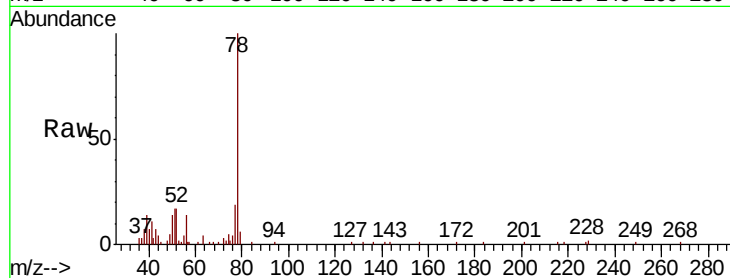
ClientSampleId :

IA-104

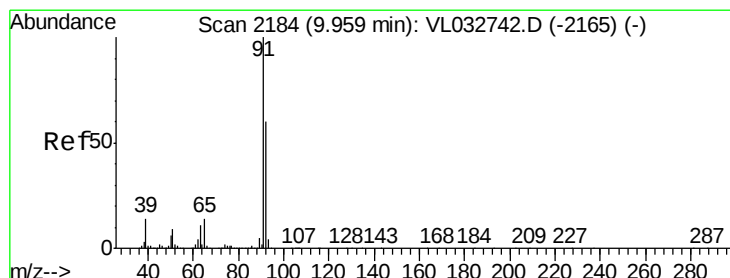
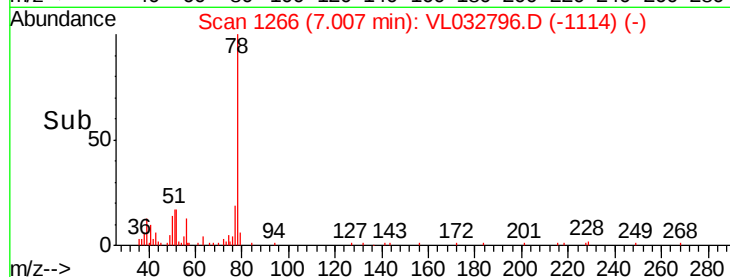
Tot Ion	Ratio	Lower	Upper
78	100		
77	19.1	17.8	26.8
50	13.7	15.4	23.0

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#53

Toluene

Concen: 19.442 ppbv

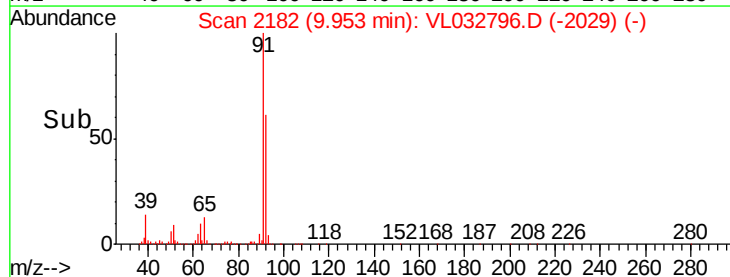
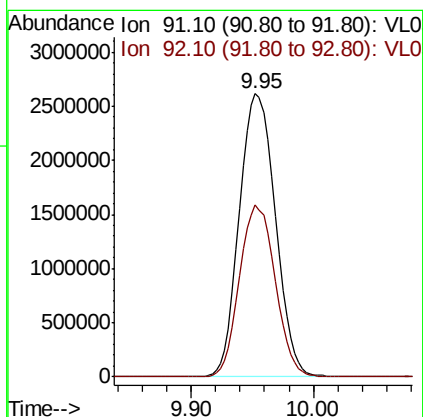
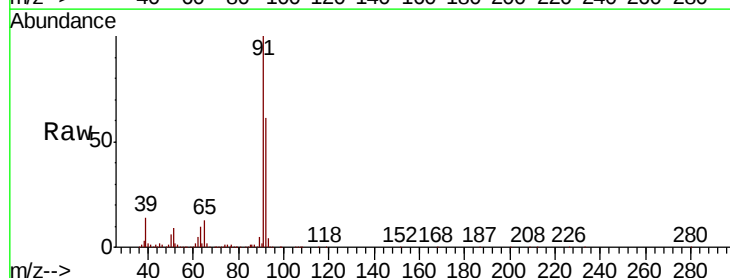
RT: 9.95 min Scan# 2182

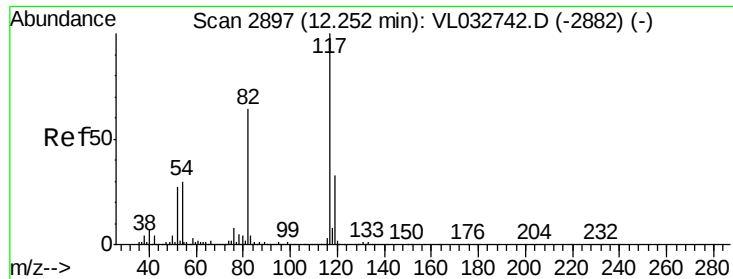
Delta R.T. -0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.3	47.9	71.9





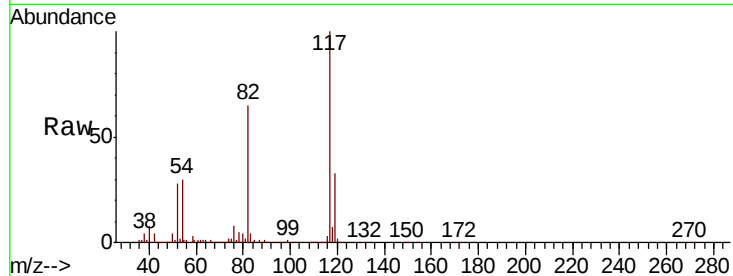
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Instrument :
MSVOA_L
ClientSampleId :
IA-104

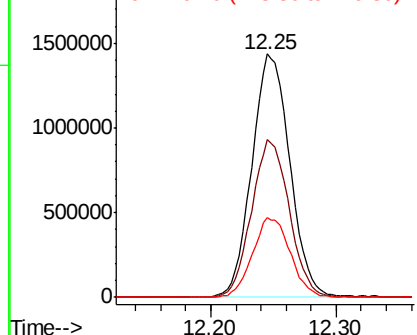
Tot Ion	Ratio	Lower	Upper
117	100		
82	65.2	51.0	76.6
119	32.9	28.0	42.0

Manual Integrations
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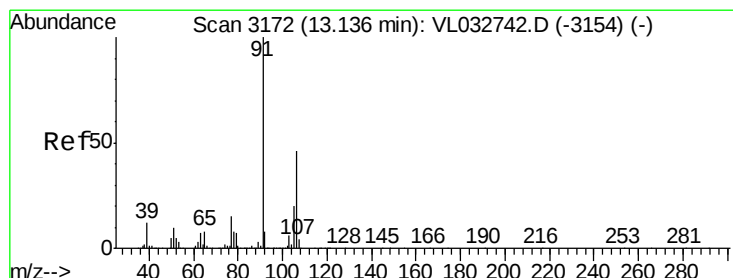
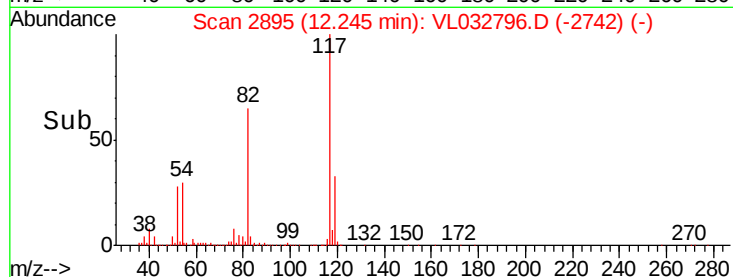
MMDadoda



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

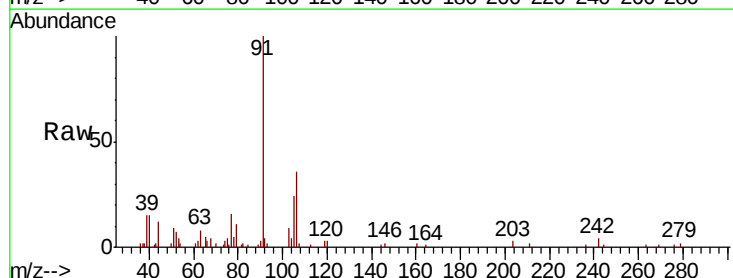


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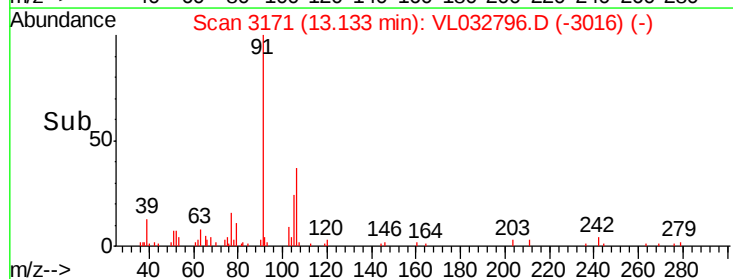
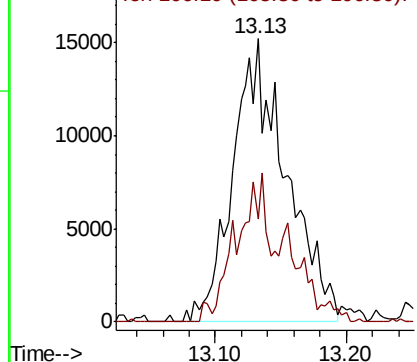


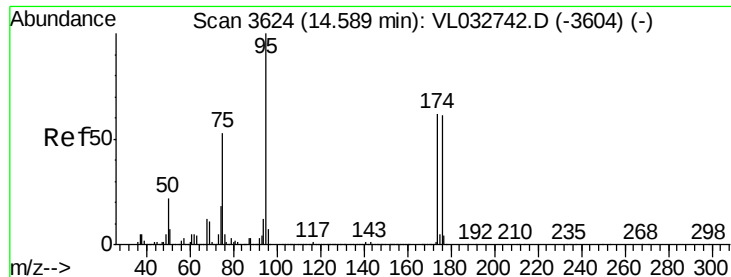
#59
m/p-Xylene
Concen: 0.133 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#



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





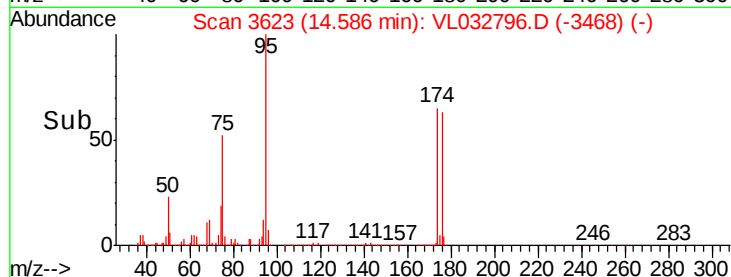
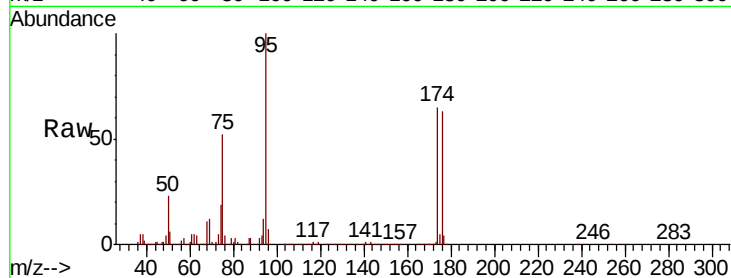
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.926 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032796.D
 Acq: 21 Nov 2018 2:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-104

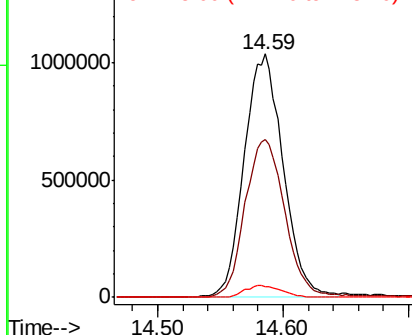
Tot Ion	Ratio	Lower	Upper
95	100		
174	66.9	50.7	76.1
175	4.8	3.8	5.6

Manual Integrations
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Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



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