

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034242.D
 Acq On : 8 Oct 2019 4:18
 Operator : SY/AP
 Sample : K5222-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-3DL

Manual Integrations
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 10/11/2019 5:06:11 PM

Quant Time: Oct 10 20:44:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	945936	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.21	114	1779305	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.16	117	1774638	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1523647	9.88	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.24	62	29357	0.493	ppbv	94
9) Propene	2.99	41	137989	2.522	ppbv	91
10) Heptane	8.17	43	97040	0.680	ppbv	99
13) Ethanol	3.59	45	1221369	92.175	ppbv	96
15) Acetone	3.84	43	4092941	32.283	ppbv	97
17) tert-Butyl alcohol	4.30	59	216331	2.693	ppbv	96
19) Isopropyl Alcohol	3.97	45	104931	1.346	ppbv #	1
26) Hexane	5.71	57	150302	1.507	ppbv #	41
27) Carbon Disulfide	4.56	76	28250	0.307	ppbv #	77
29) Chloroform	5.78	83	67571	0.474	ppbv	97
30) Cyclohexane	7.16	84	44112m	0.613	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	1180478	11.612	ppbv	97
34) 2-Butanone	5.26	43	402623	2.216	ppbv	97
36) Benzene	6.92	78	176214m	0.897	ppbv	
38) Trichloroethene	7.88	130	360891	5.140	ppbv	96
44) 2,2,4-Trimethylpentane	7.91	57	177254	0.469	ppbv #	84
50) 4-Methyl-2-Pentanone	8.80	43	377425	1.427	ppbv	98
51) 2-Hexanone	10.20	43	157388m	0.709	ppbv	
52) Tetrachloroethene	11.31	164	7802889	120.182	ppbv	90
53) Toluene	9.86	91	651767	3.035	ppbv	99
58) Ethyl Benzene	12.78	91	139166m	0.486	ppbv	
59) m/p-Xylene	13.03	91	413029m	1.741	ppbv	
60) o-Xylene	13.76	91	159794m	0.674	ppbv	
72) 4-Ethyltoluene	15.91	105	56800m	0.212	ppbv	
73) 1,3,5-Trimethylbenzene	16.07	105	48868m	0.189	ppbv	
74) 1,2,4-Trimethylbenzene	16.84	105	174872	0.636	ppbv #	67

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

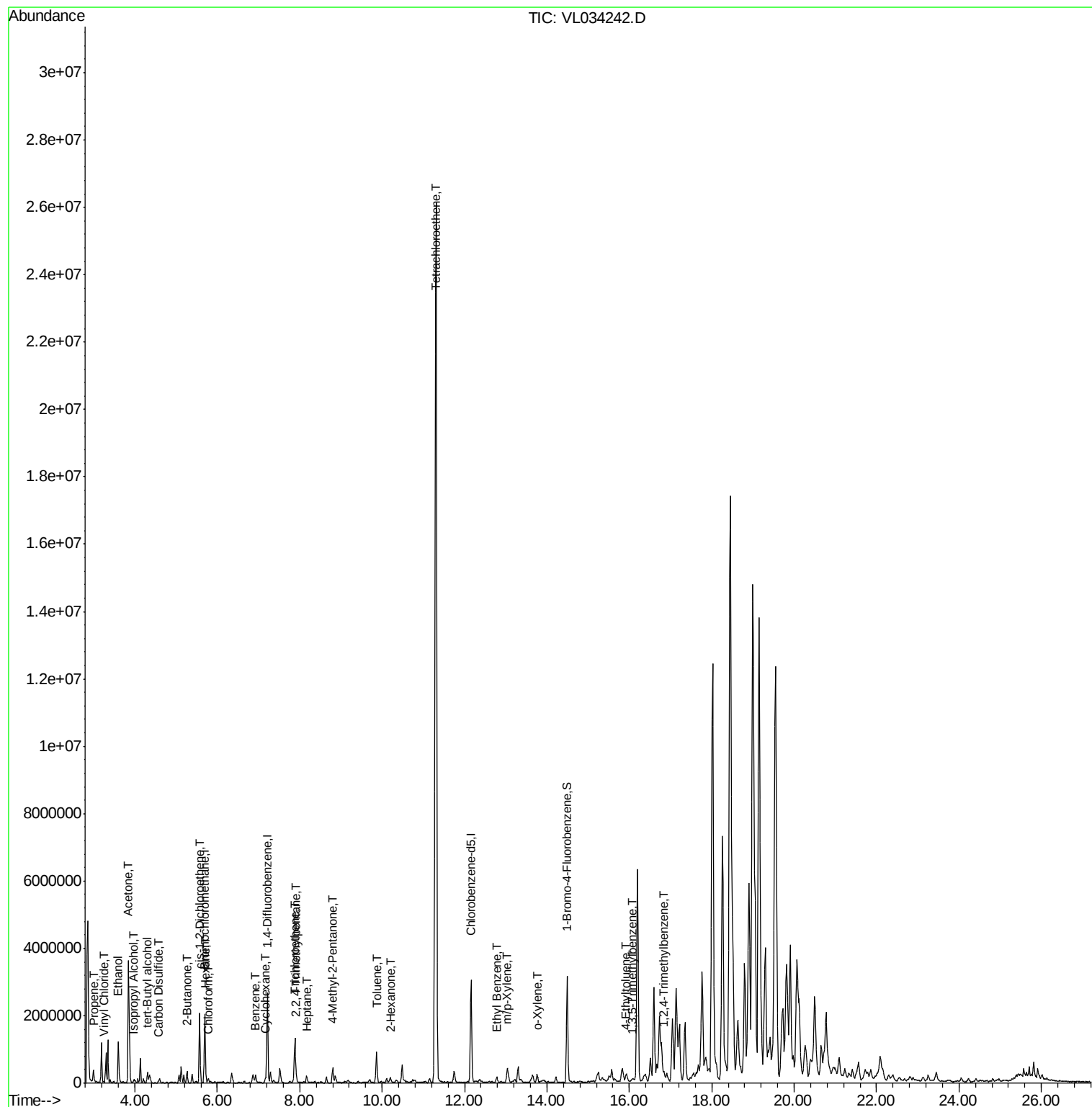
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034242.D
Acq On : 8 Oct 2019 4:18
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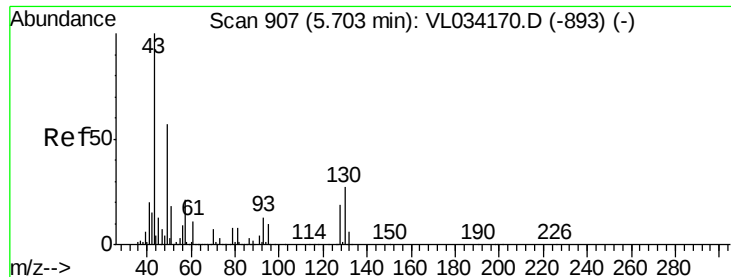
Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Manual Integrations
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Quant Time: Oct 10 20:44:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

Instrument :

MSVOA_L

ClientSampled :

V-3DL

Tgt Ion: 49 Resp: 945936
Ion Ratio Lower Upper

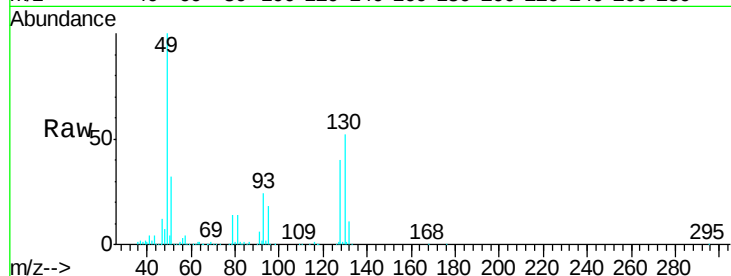
49 100

128 37.3 17.6 52.9

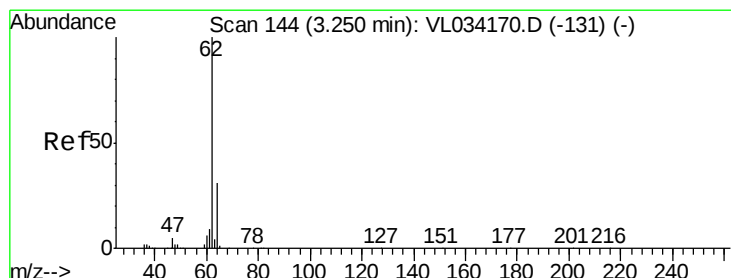
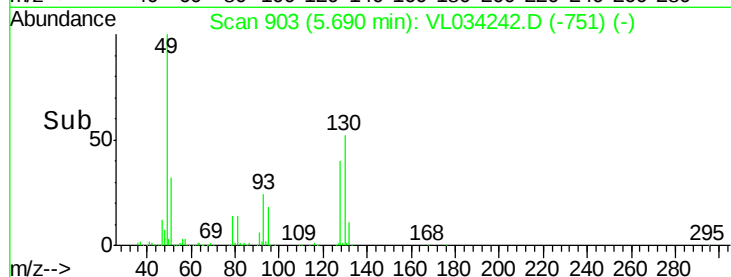
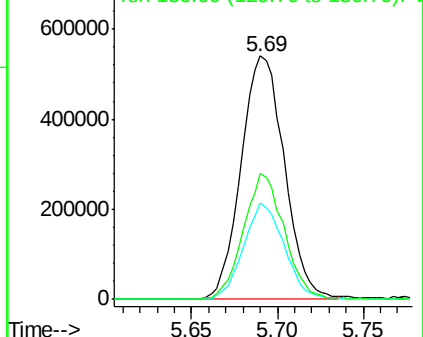
130 49.0 22.3 66.9

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



#5

Vinyl Chloride

Concen: 0.493 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.01 min

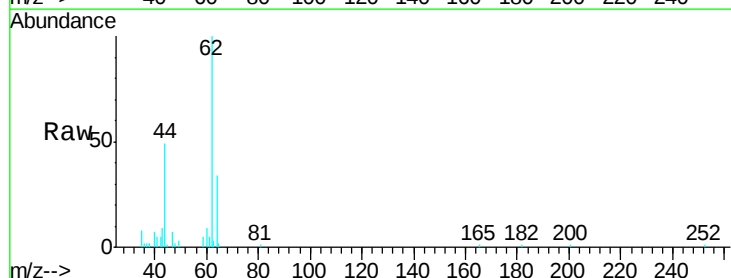
Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

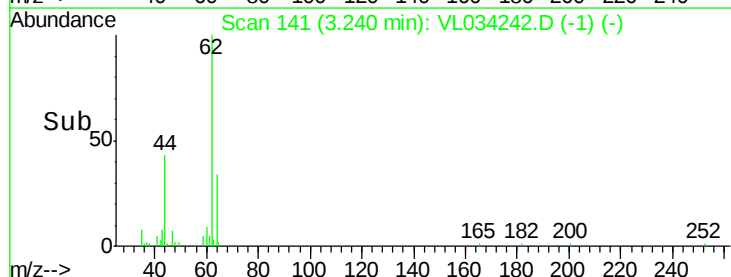
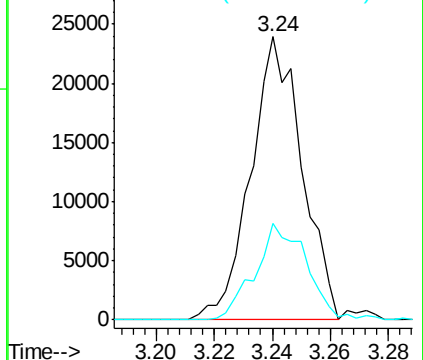
Tgt Ion: 62 Resp: 29357
Ion Ratio Lower Upper

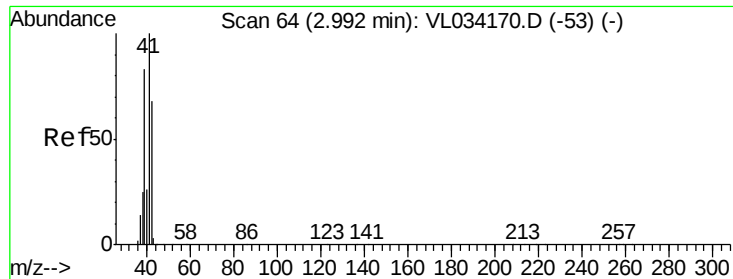
62 100

64 34.7 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 64.10 (63.80 to 64.80): VL0





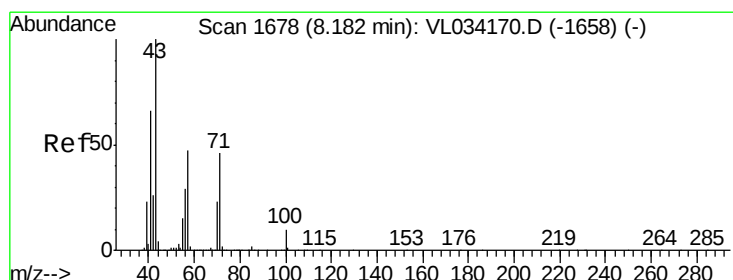
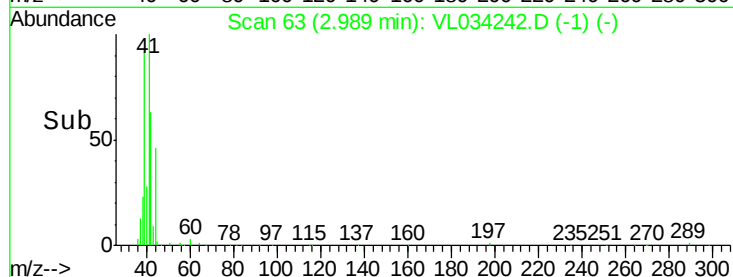
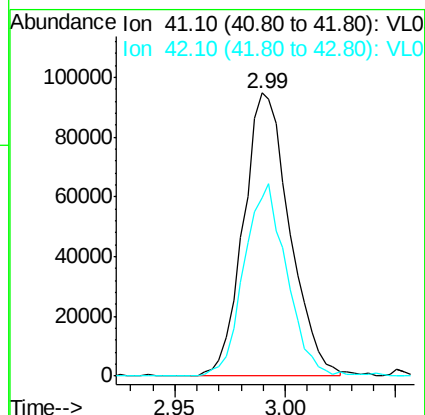
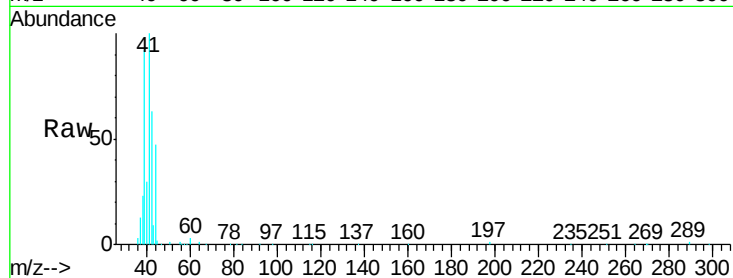
#9
 Propene
 Concen: 2.522 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. -0.00 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Instrument :
 MSVOA_L
 ClientSampled :
 V-3DL

Tgt Ion: 41 Resp: 137989
 Ion Ratio Lower Upper
 41 100
 42 62.6 55.8 83.6

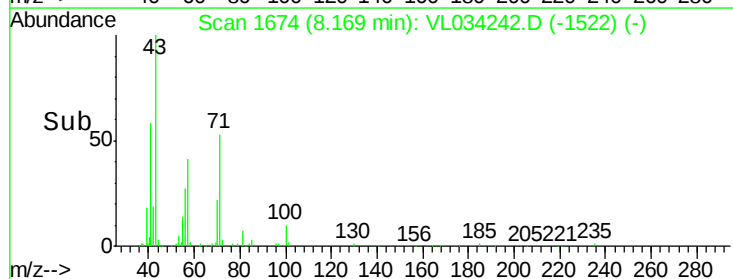
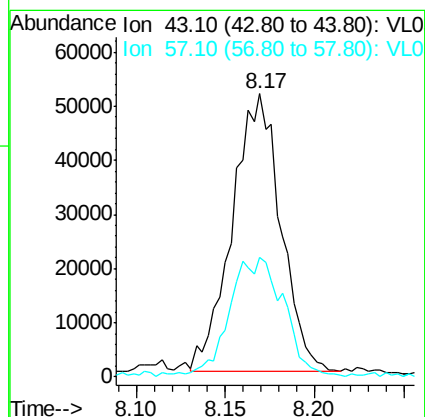
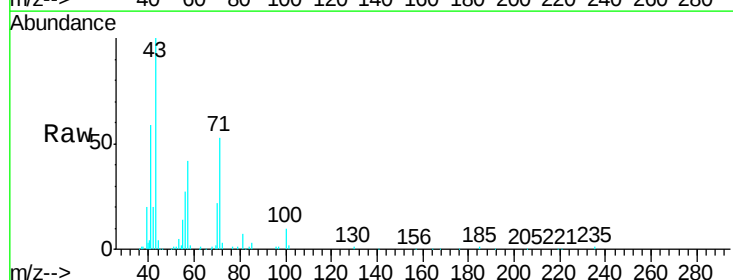
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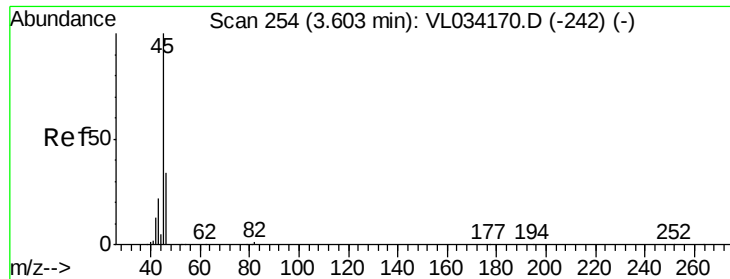
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#10
 Heptane
 Concen: 0.680 ppbv
 RT: 8.17 min Scan# 1674
 Delta R.T. -0.01 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Tgt Ion: 43 Resp: 97040
 Ion Ratio Lower Upper
 43 100
 57 47.6 37.5 56.3





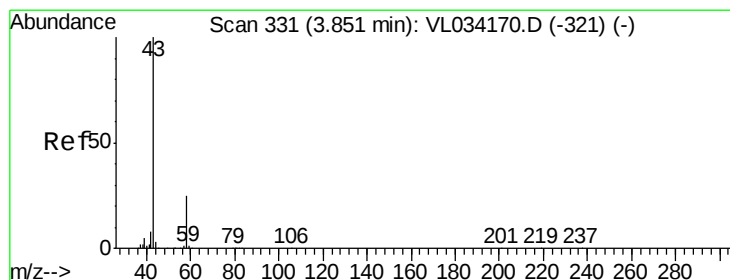
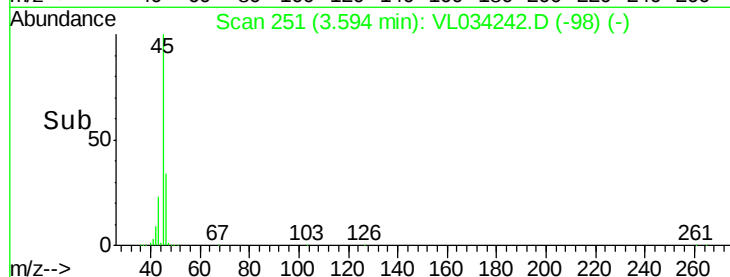
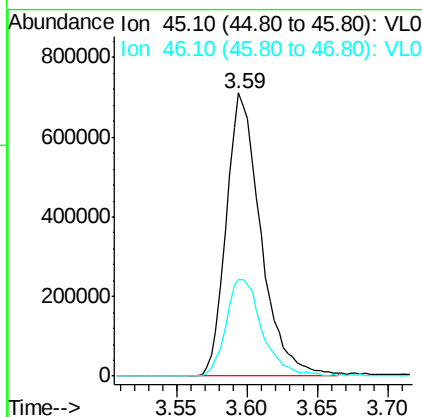
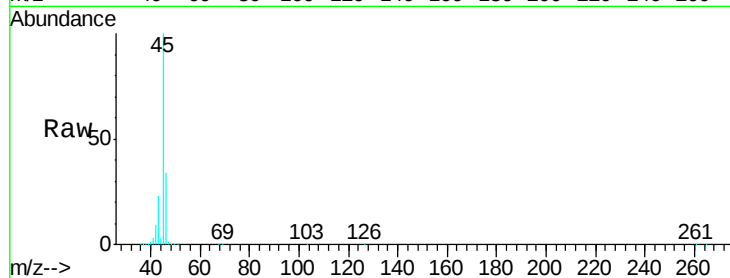
#13
Ethanol
Concen: 92.175 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Instrument :
MSVOA_L
ClientSampled :
V-3DL

Tgt Ion: 45 Resp: 1221369
Ion Ratio Lower Upper
45 100
46 36.2 15.5 61.9

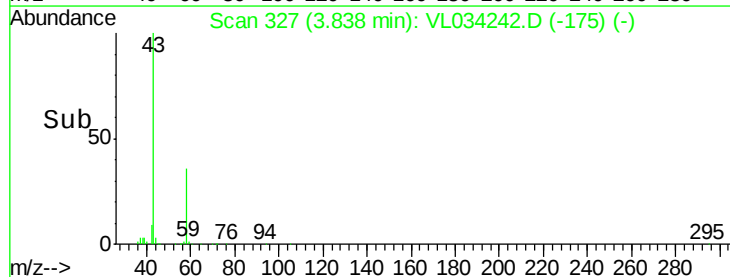
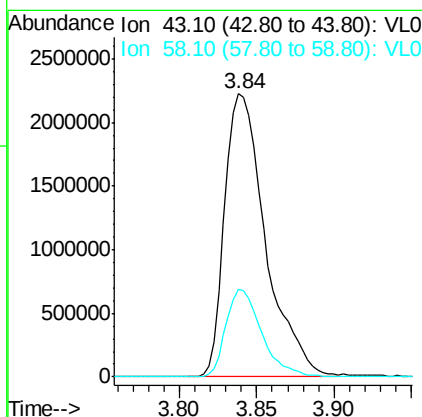
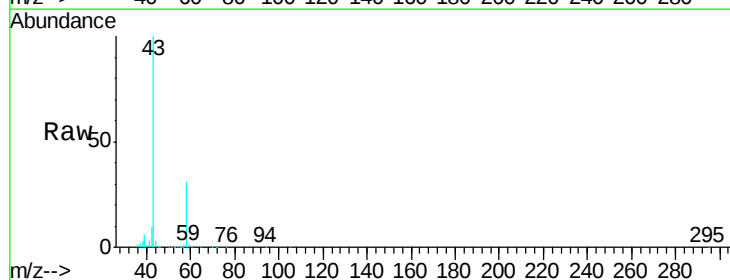
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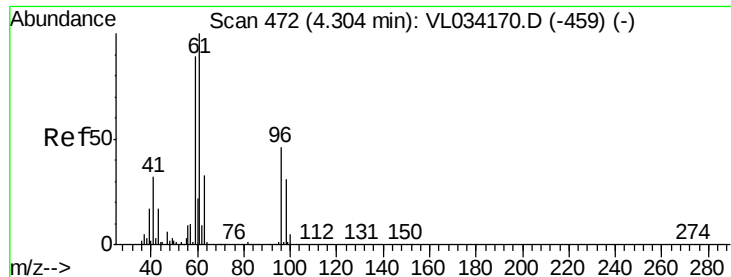
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#15
Acetone
Concen: 32.283 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Tgt Ion: 43 Resp: 4092941
Ion Ratio Lower Upper
43 100
58 27.2 20.5 30.7





#17

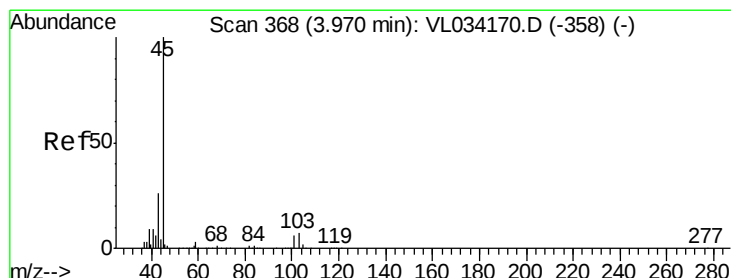
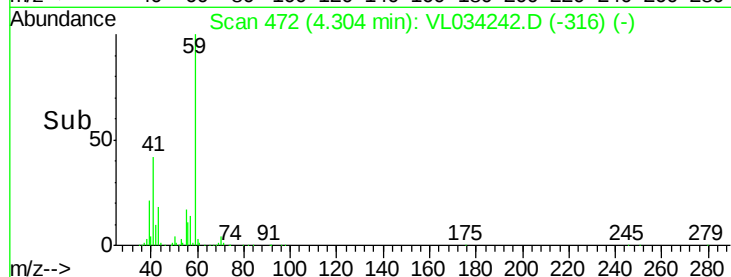
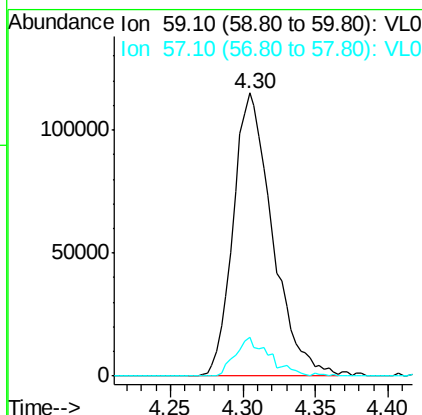
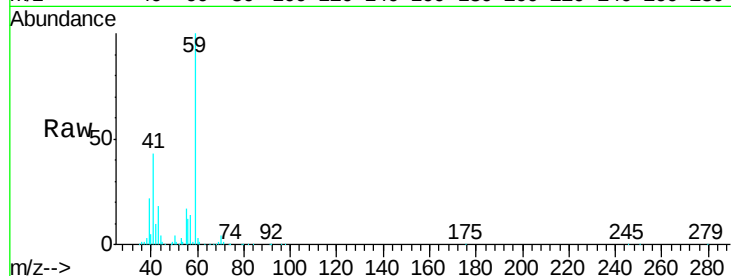
tert-Butyl alcohol
Concen: 2.693 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.00 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Instrument :
MSVOA_L
ClientSampled :
V-3DL

Tgt Ion	Ratio	Lower	Upper
59	100		
57	12.3	8.7	13.1

Manual Integrations
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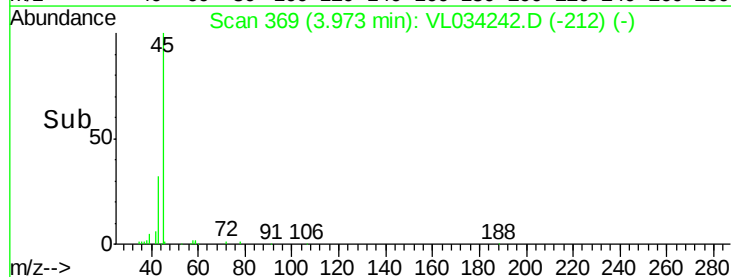
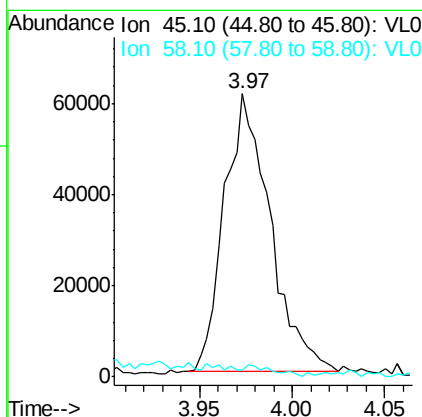
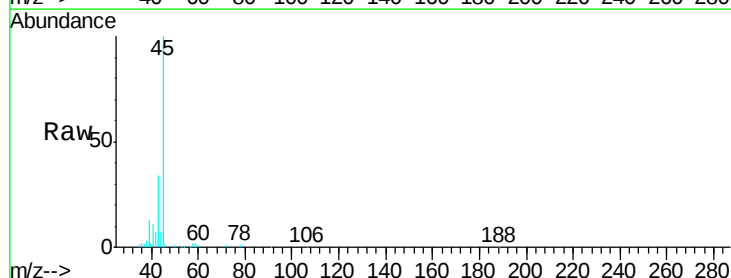
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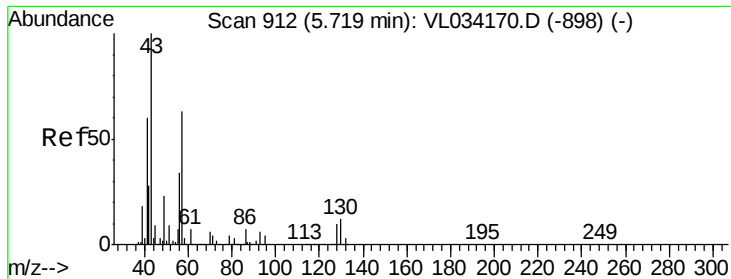


#19

Isopropyl Alcohol
Concen: 1.346 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Tgt Ion	Ratio	Lower	Upper
45	100		
58	1057.9	1.4	2.0#





#26

Hexane

Concen: 1.507 ppbv

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

Instrument :

MSVOA_L

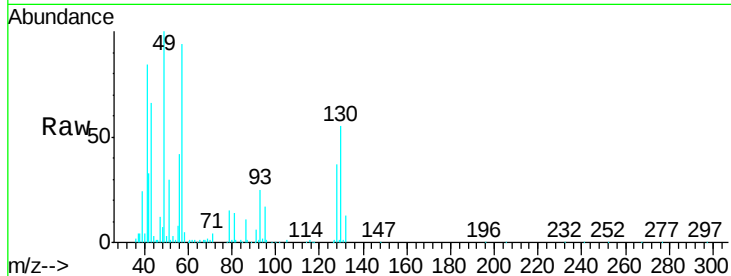
ClientSampleId :

V-3DL

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.2	78.5	117.7
43	77.3	189.5	284.3#
56	54.3	43.2	64.8

Manual Integrations
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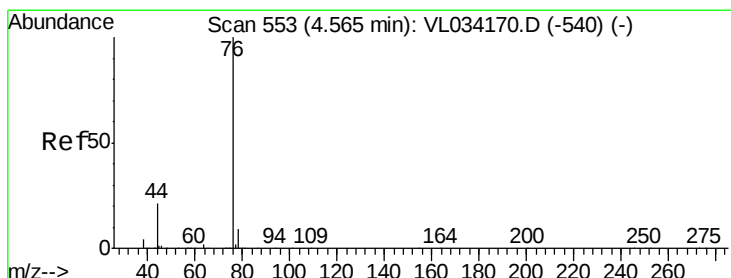
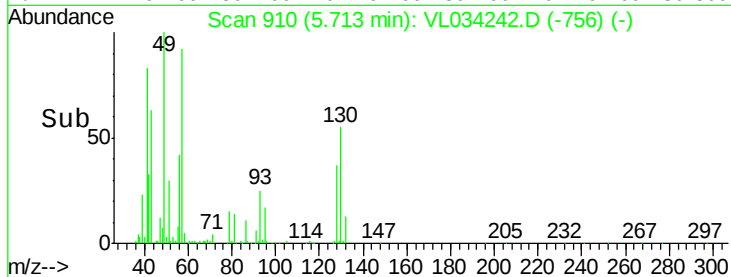
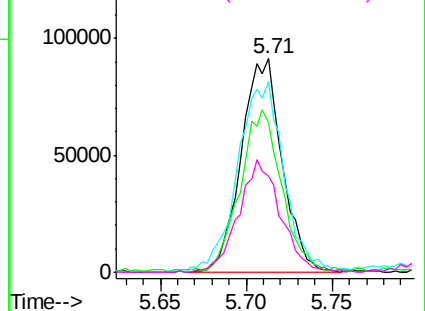


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.307 ppbv

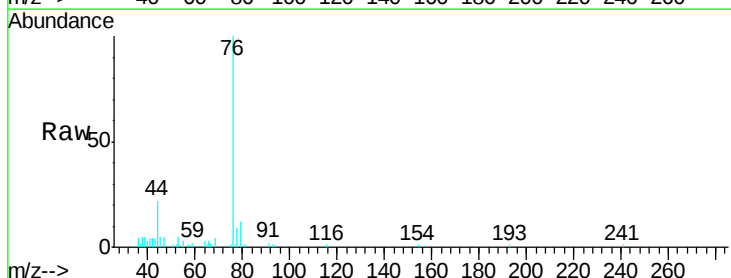
RT: 4.56 min Scan# 551

Delta R.T. -0.01 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

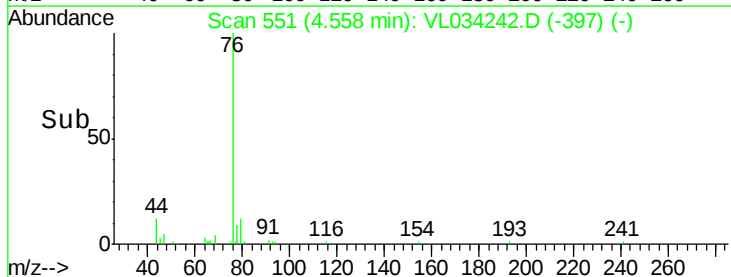
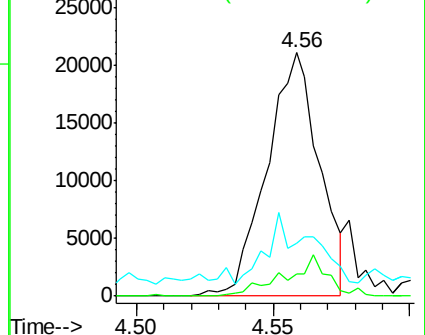
Tgt Ion	Ratio	Lower	Upper
76	100		
44	35.3	17.6	26.4#
78	13.7	7.6	11.4#

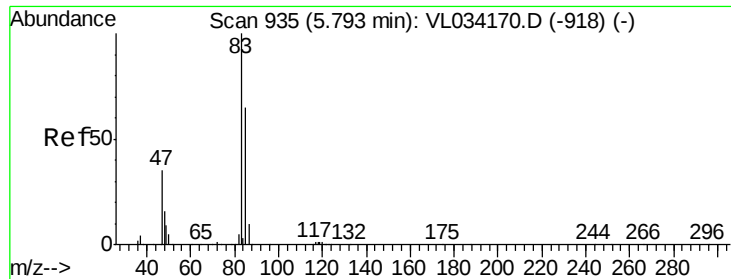


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





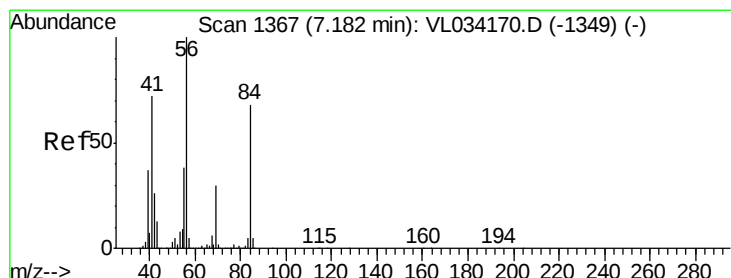
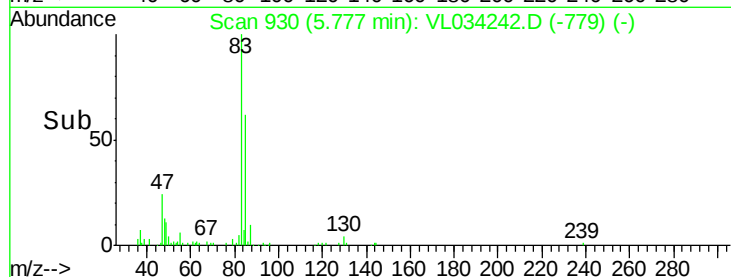
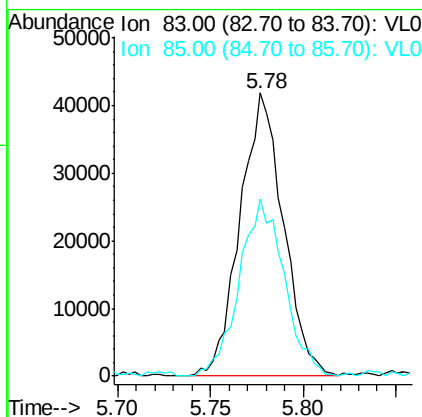
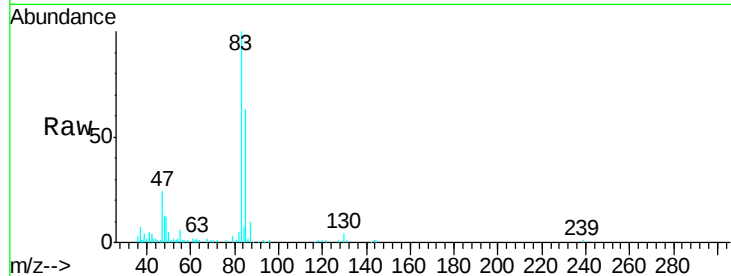
#29
Chloroform
Concen: 0.474 ppbv
RT: 5.78 min Scan# 930
Delta R.T. -0.02 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Tgt Ion: 83 Resp: 67571
Ion Ratio Lower Upper
83 100
85 62.7 52.3 78.5

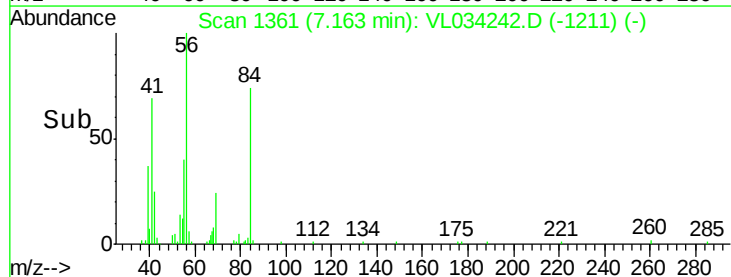
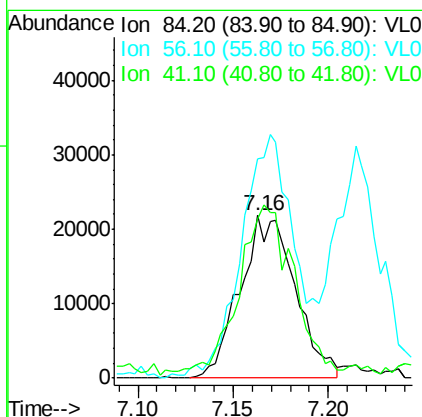
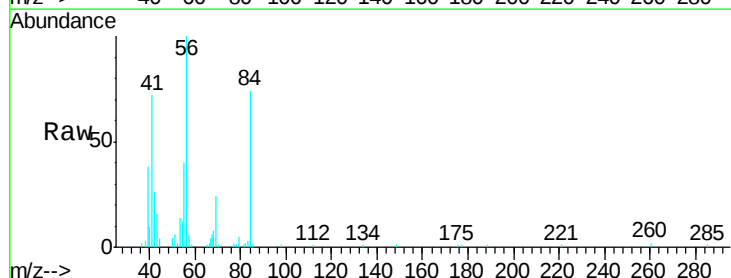
Manual Integrations
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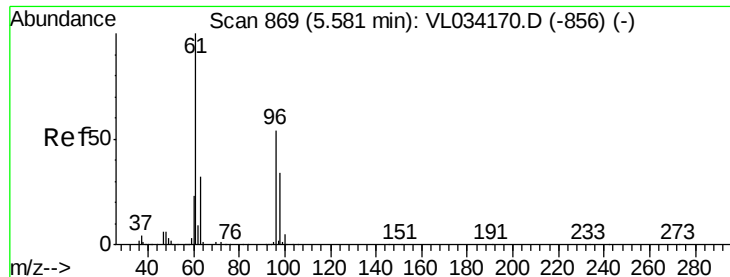
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#30
Cyclohexane
Concen: 0.613 ppbv m
RT: 7.16 min Scan# 1361
Delta R.T. -0.02 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Tgt Ion: 84 Resp: 44112
Ion Ratio Lower Upper
84 100
56 0.0 126.2 189.2#
41 0.0 85.8 128.8#





#31

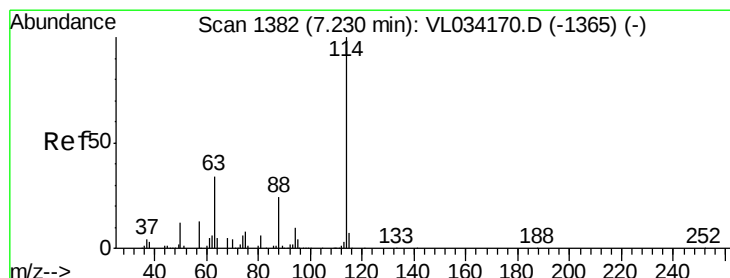
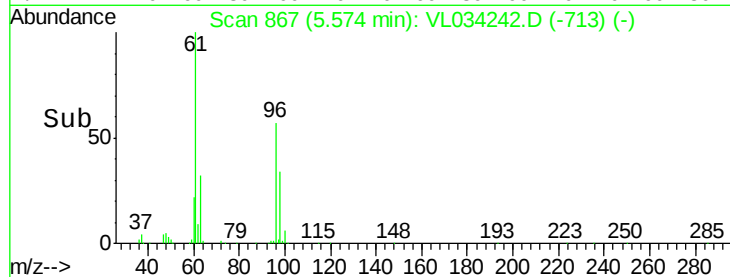
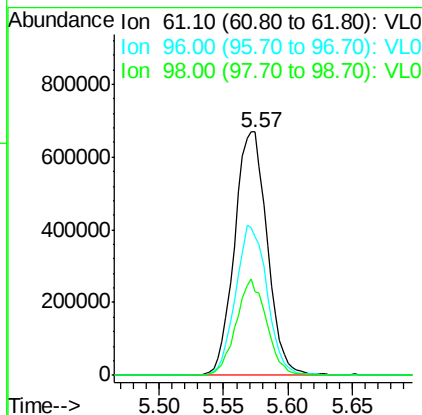
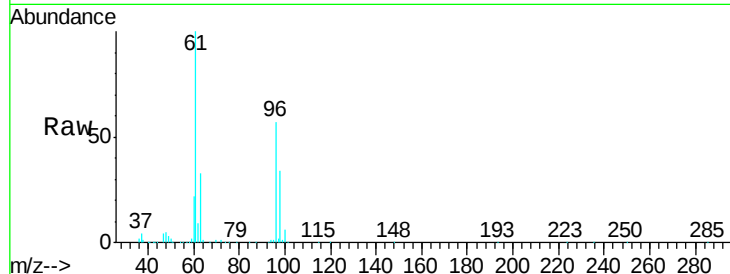
cis-1,2-Dichloroethene
Concen: 11.612 ppbv
RT: 5.57 min Scan# 867
Delta R.T. -0.01 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Instrument :
MSVOA_L
ClientSampled :
V-3DL

Tgt Ion: 61 Resp: 1180478
Ion Ratio Lower Upper
61 100
96 57.1 43.0 64.4
98 34.5 27.2 40.8

Manual Integrations
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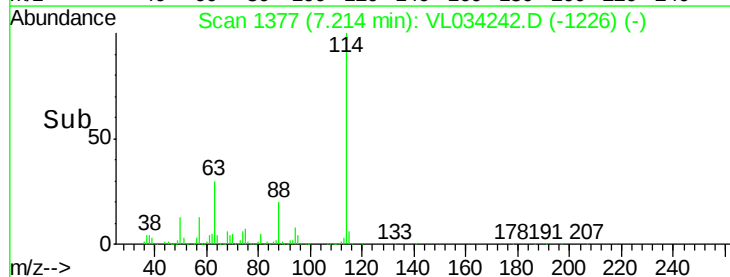
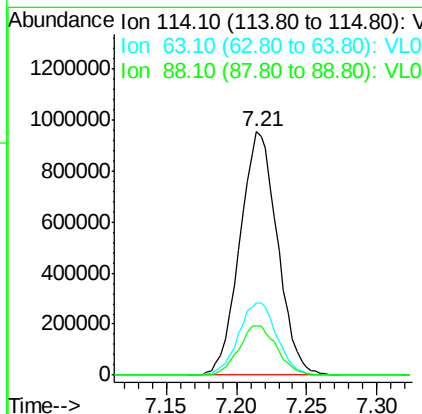
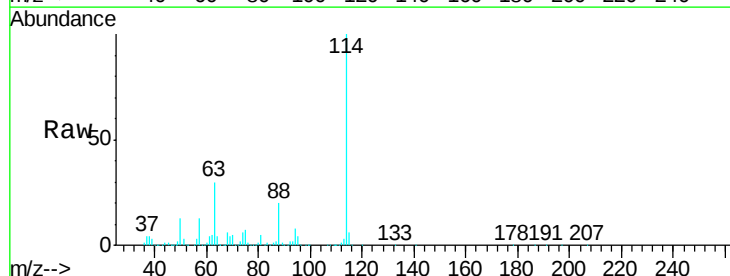
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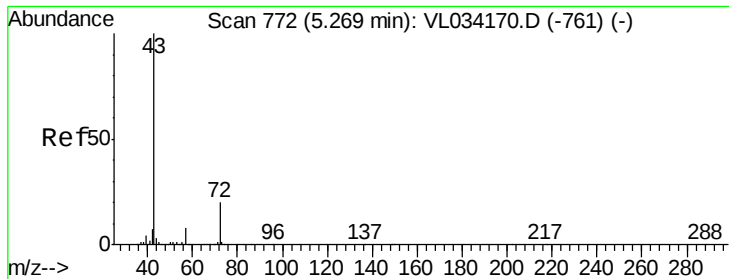


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.02 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Tgt Ion: 114 Resp: 1779305
Ion Ratio Lower Upper
114 100
63 30.4 27.8 41.6
88 20.5 17.1 25.7





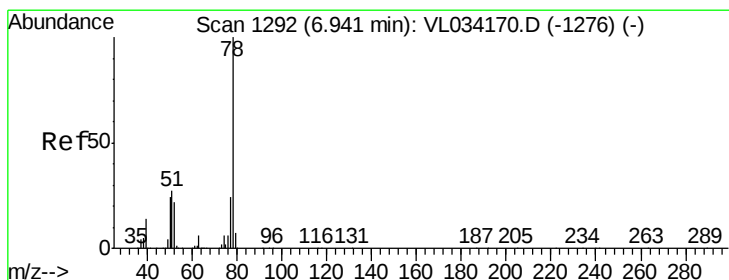
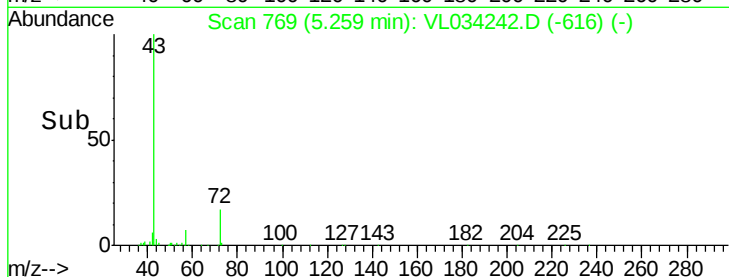
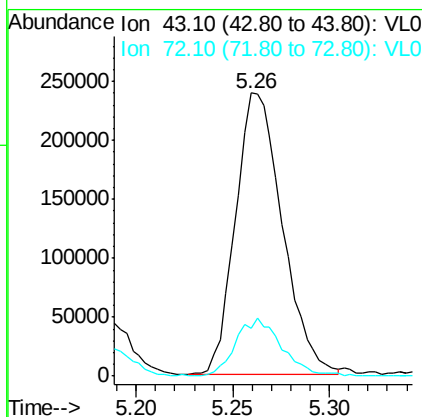
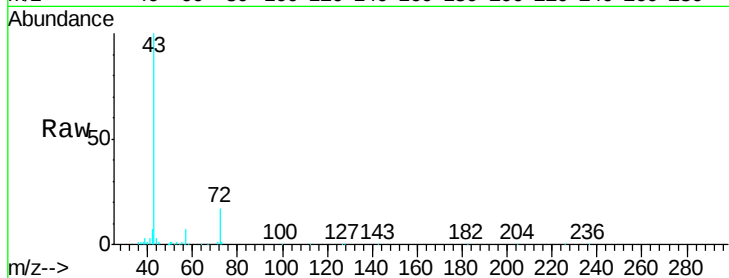
#34
2-Butanone
Concen: 2.216 ppbv
RT: 5.26 min Scan# 769
Delta R.T. -0.01 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Tgt Ion: 43 Resp: 402623
Ion Ratio Lower Upper
43 100
72 20.3 15.0 22.6

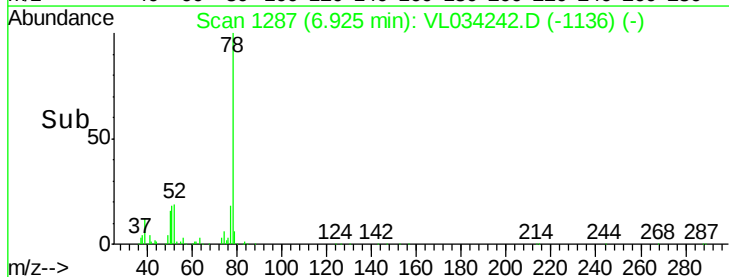
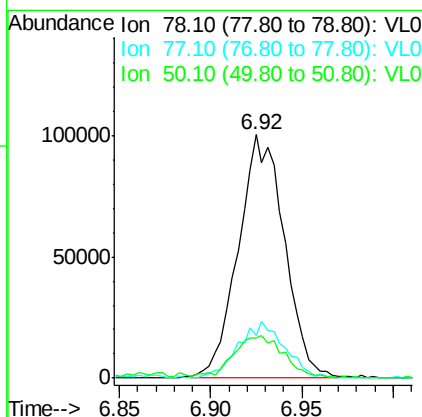
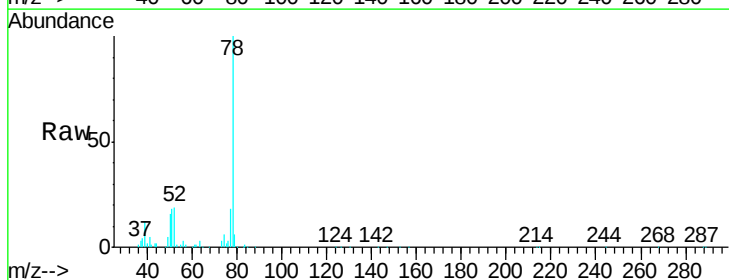
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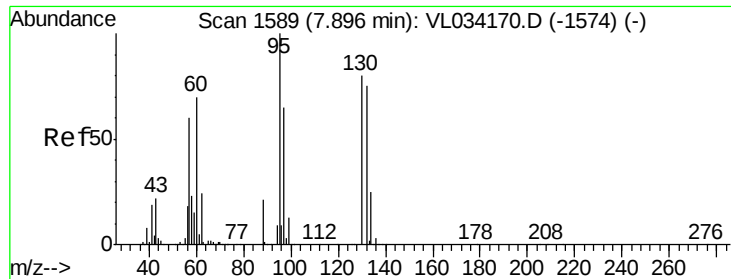
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#36
Benzene
Concen: 0.897 ppbv m
RT: 6.92 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Tgt Ion: 78 Resp: 176214
Ion Ratio Lower Upper
78 100
77 17.6 19.0 28.4#
50 16.4 18.9 28.3#





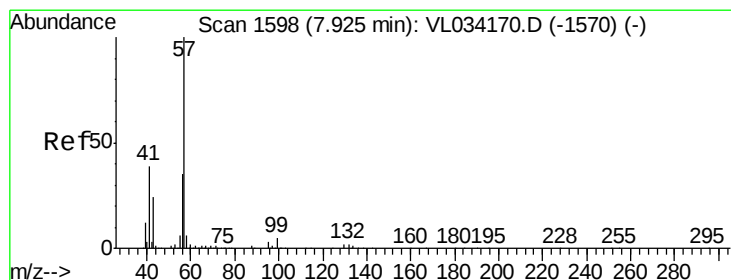
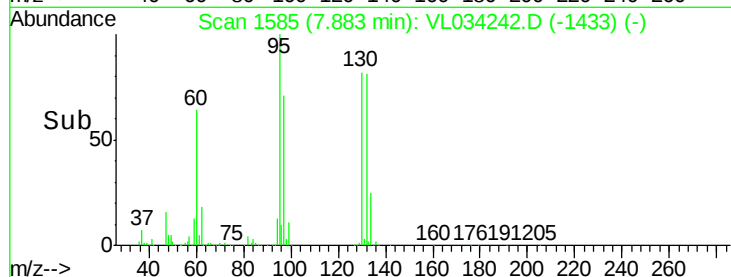
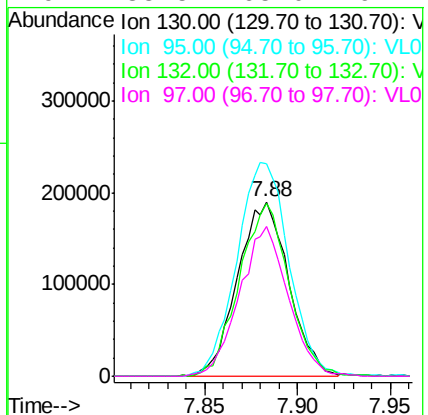
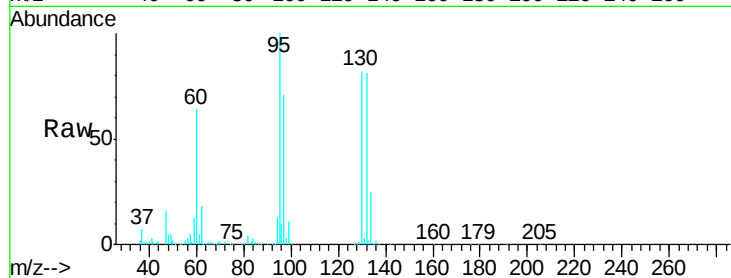
#38
 Trichloroethene
 Concen: 5.140 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Instrument :
 MSVOA_L
 ClientSampled :
 V-3DL

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	360891		
95	121.2	99.8	149.6	
132	98.9	75.2	112.8	
97	85.5	65.0	97.4	

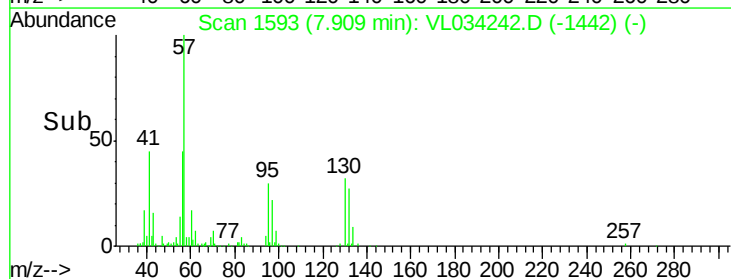
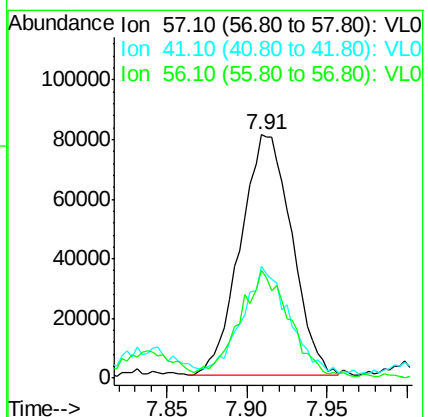
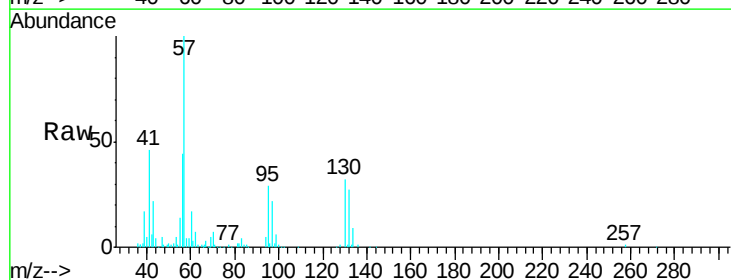
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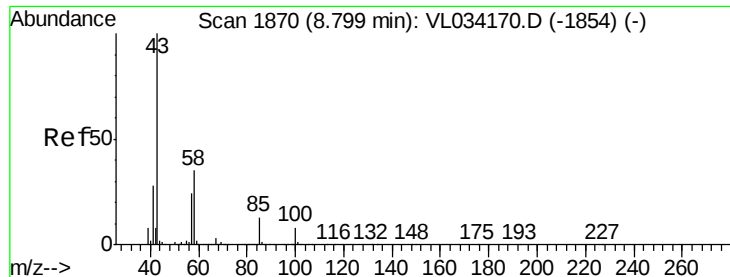
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#44
 2,2,4-Trimethylpentane
 Concen: 0.469 ppbv
 RT: 7.91 min Scan# 1593
 Delta R.T. -0.02 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	177254		
41	45.2	29.8	44.6#	
56	42.8	25.9	38.9#	





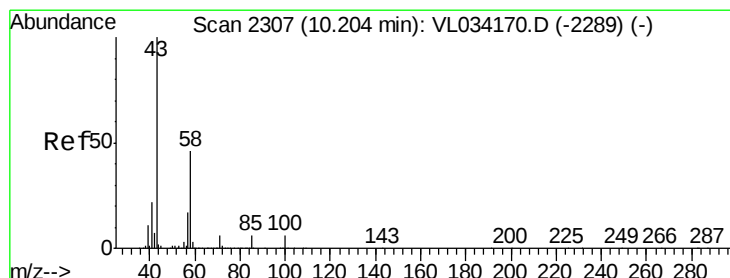
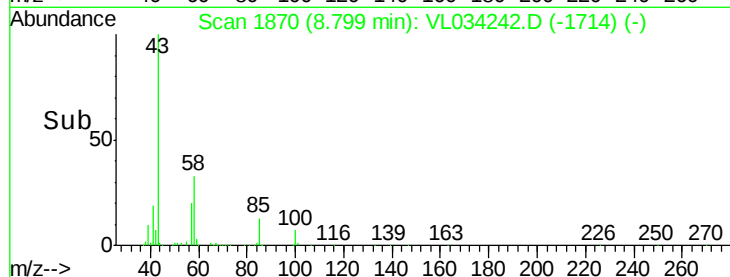
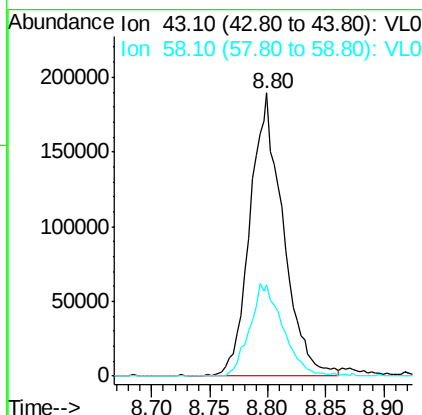
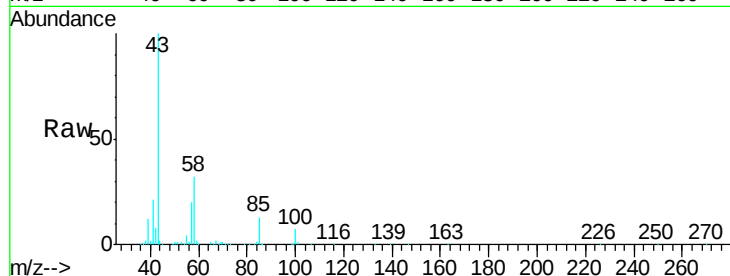
#50
 4-Methyl-2-Pentanone
 Concen: 1.427 ppbv
 RT: 8.80 min Scan# 1870
 Delta R.T. 0.00 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Instrument :
 MSVOA_L
 ClientSampleId :
 V-3DL

Tgt Ion: 43 Resp: 377425
 Ion Ratio Lower Upper
 43 100
 58 33.1 27.6 41.4

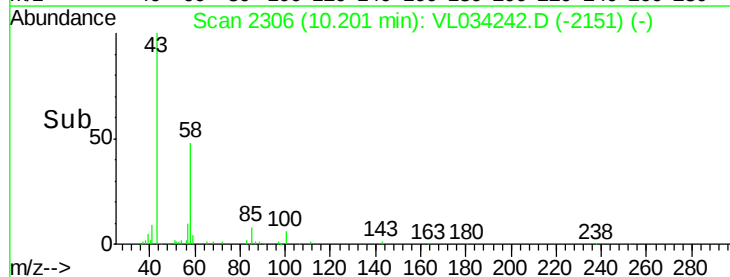
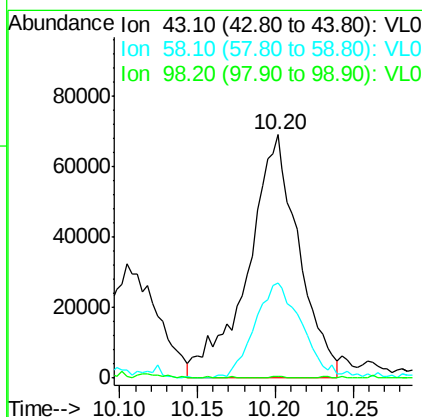
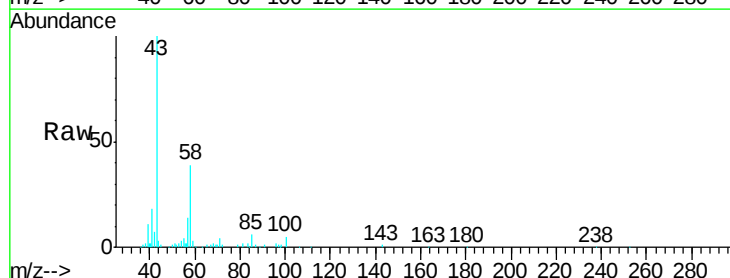
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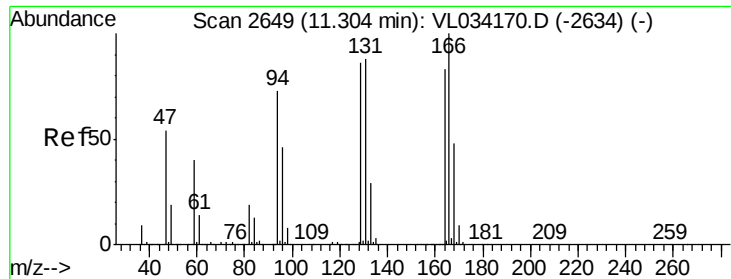
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#51
 2-Hexanone
 Concen: 0.709 ppbv m
 RT: 10.20 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Tgt Ion: 43 Resp: 157388
 Ion Ratio Lower Upper
 43 100
 58 0.0 36.2 54.4#
 98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 120.182 ppbv

RT: 11.31 min Scan# 2650

Delta R.T. 0.00 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

Instrument :

MSVOA_L

ClientSampled :

V-3DL

Tgt Ion:164 Resp: 7802889

Ion Ratio Lower Upper

164 100

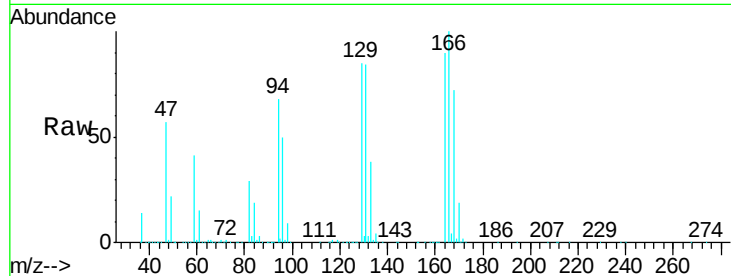
166 111.2 96.7 145.1

129 94.0 82.8 124.2

131 93.6 85.0 127.6

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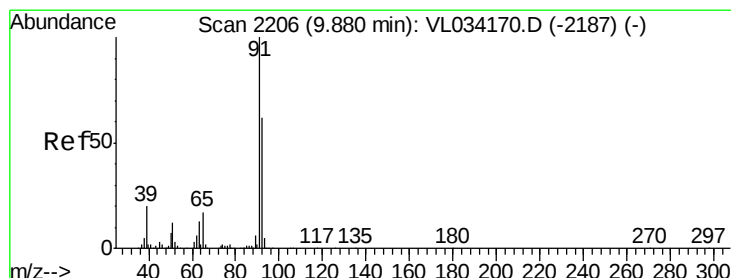
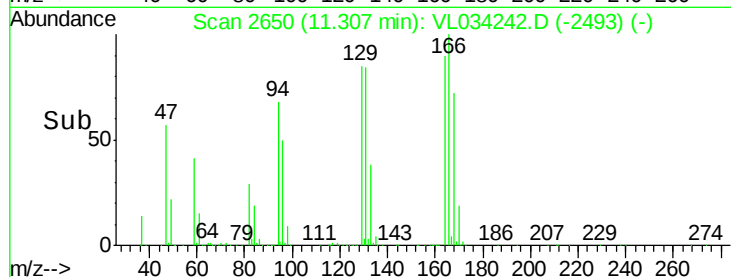
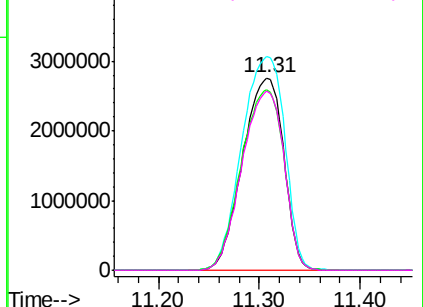


Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.035 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034242.D

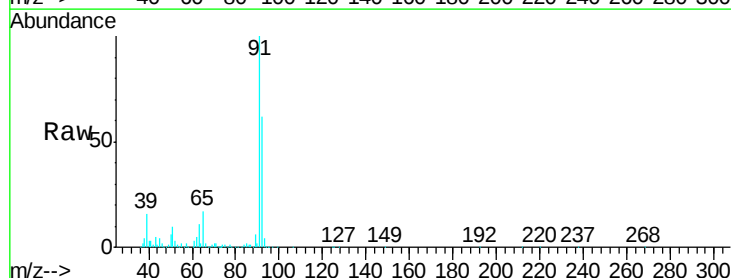
Acq: 8 Oct 2019 4:18

Tgt Ion: 91 Resp: 651767

Ion Ratio Lower Upper

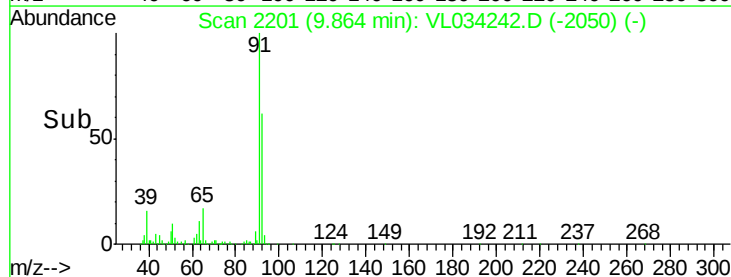
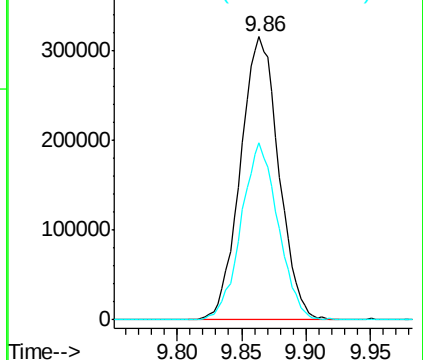
91 100

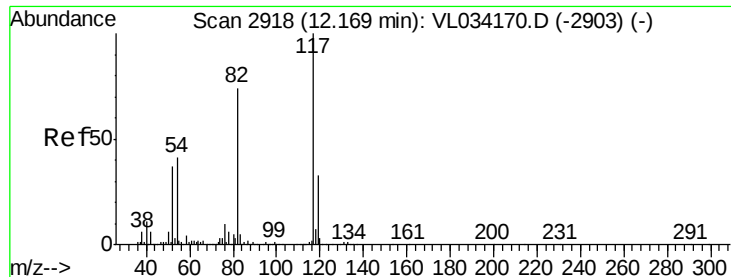
92 60.3 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. -0.01 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

Instrument :

MSVOA_L

ClientSampled :

V-3DL

Tgt Ion: 117 Resp: 1774638

Ion Ratio Lower Upper

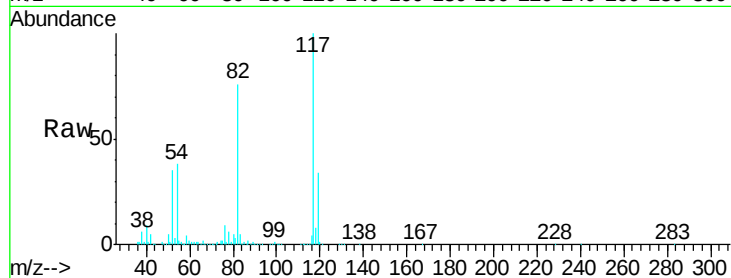
117 100

82 75.8 58.2 87.4

119 33.0 23.7 35.5

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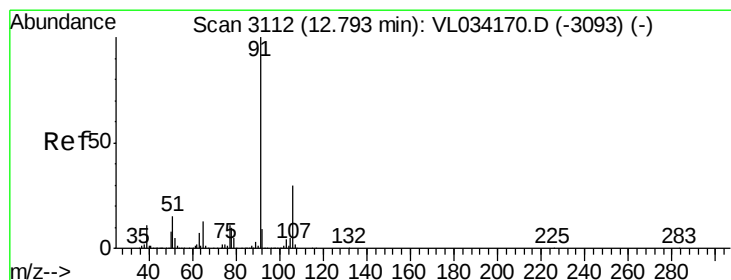
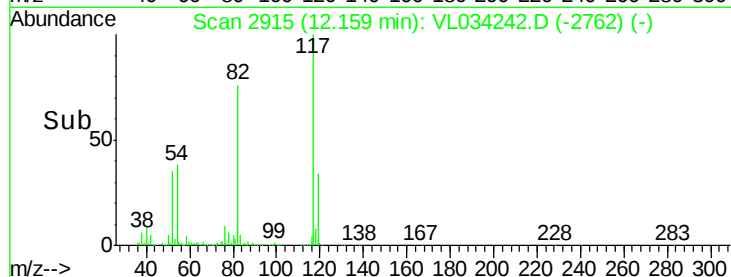
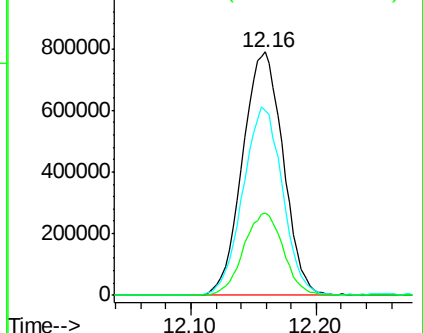
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.486 ppbv m

RT: 12.78 min Scan# 3107

Delta R.T. -0.02 min

Lab File: VL034242.D

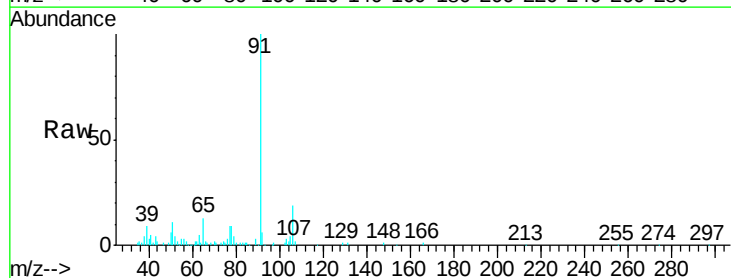
Acq: 8 Oct 2019 4:18

Tgt Ion: 91 Resp: 139166

Ion Ratio Lower Upper

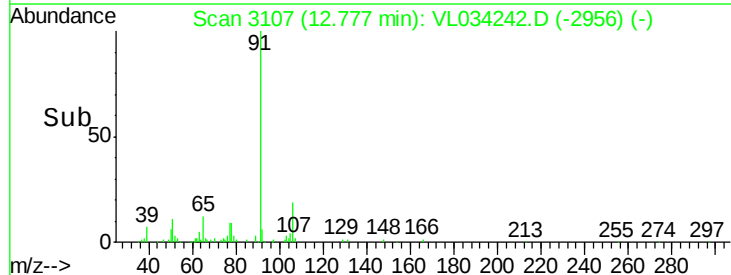
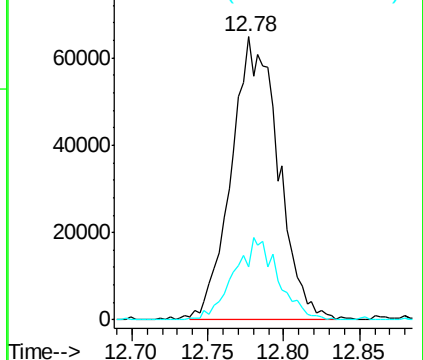
91 100

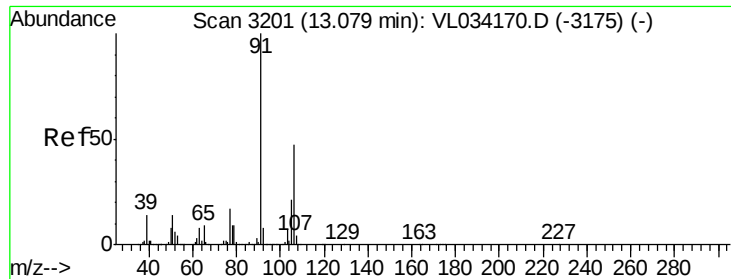
106 18.8 24.2 36.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





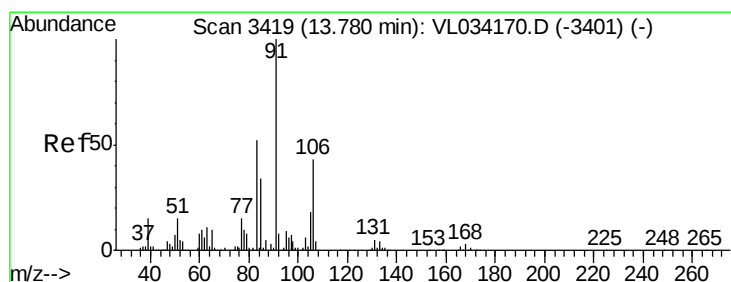
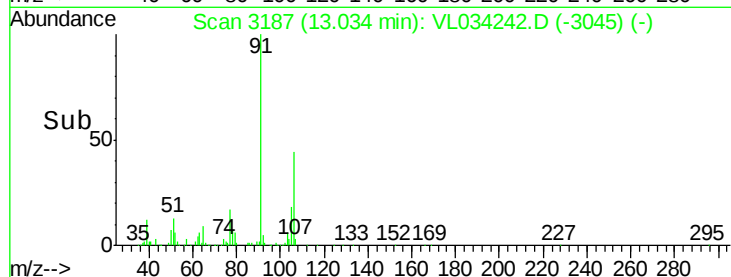
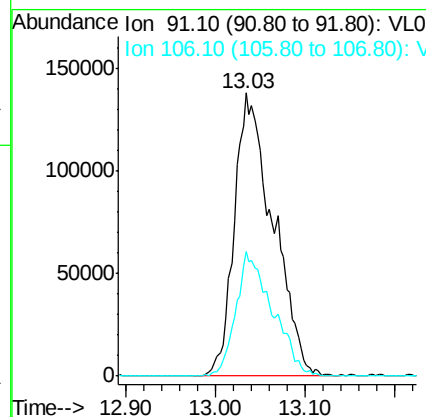
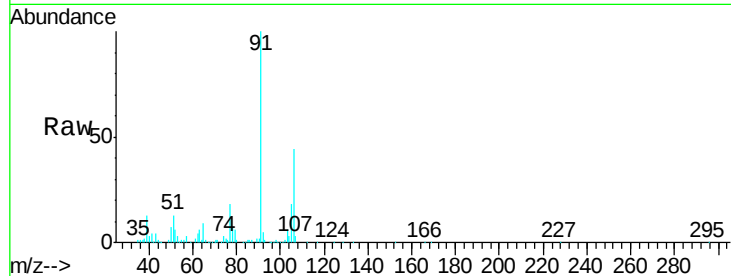
#59
m/p-Xylene
Concen: 1.741 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Tgt Ion: 91 Resp: 413029
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

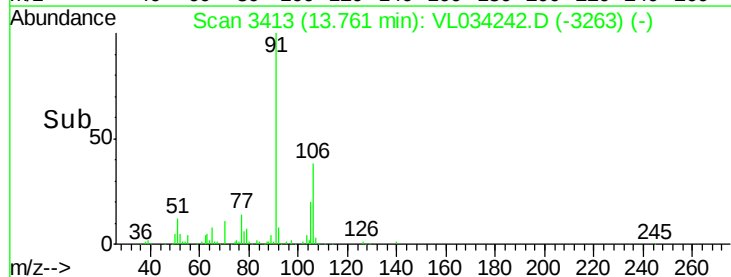
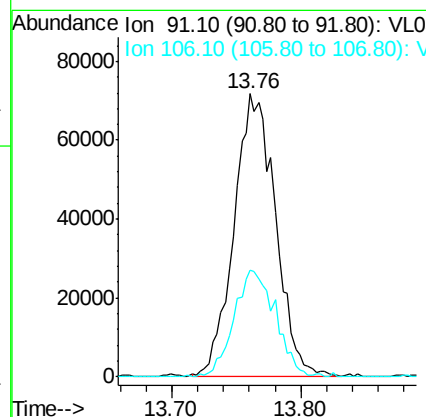
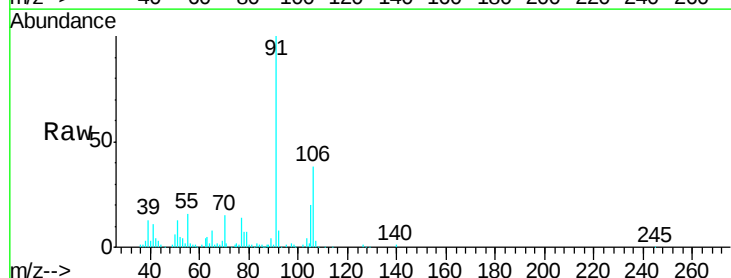
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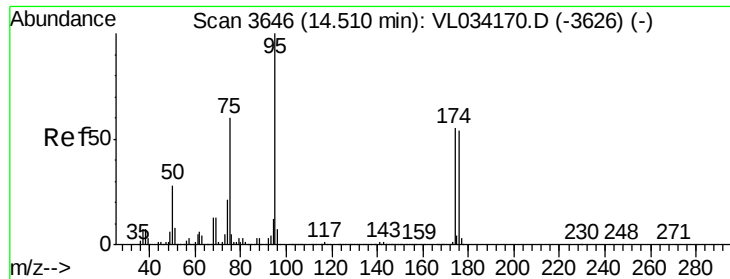
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#60
o-Xylene
Concen: 0.674 ppbv m
RT: 13.76 min Scan# 3413
Delta R.T. -0.02 min
Lab File: VL034242.D
Acq: 8 Oct 2019 4:18

Tgt Ion: 91 Resp: 159794
Ion Ratio Lower Upper
91 100
106 0.0 21.2 63.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.881 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. -0.02 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

Instrument :

MSVOA_L

ClientSampled :

V-3DL

Tgt Ion: 95 Resp: 1523647

Ion Ratio Lower Upper

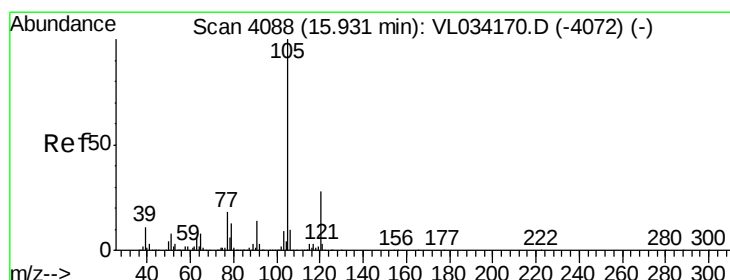
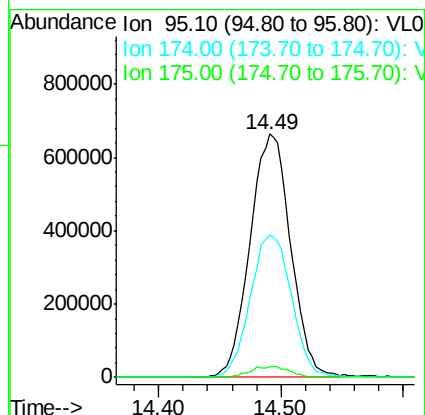
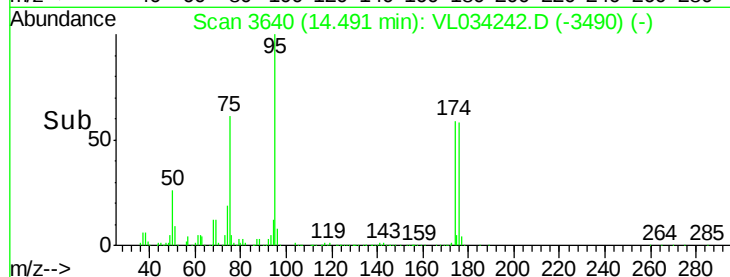
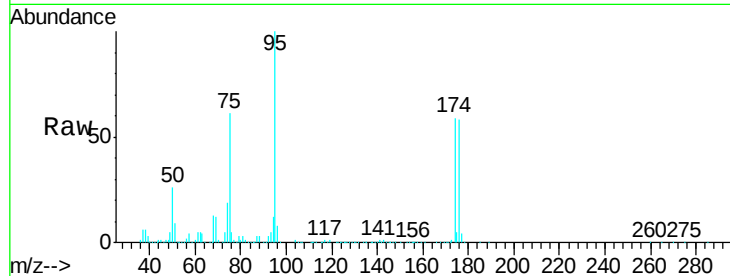
95 100

174 60.0 45.1 67.7

175 4.4 3.3 4.9

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#72

4-Ethyltoluene

Concen: 0.212 ppbv m

RT: 15.91 min Scan# 4083

Delta R.T. -0.02 min

Lab File: VL034242.D

Acq: 8 Oct 2019 4:18

Tgt Ion: 105 Resp: 56800

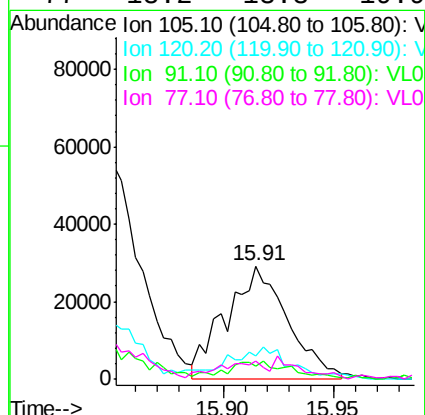
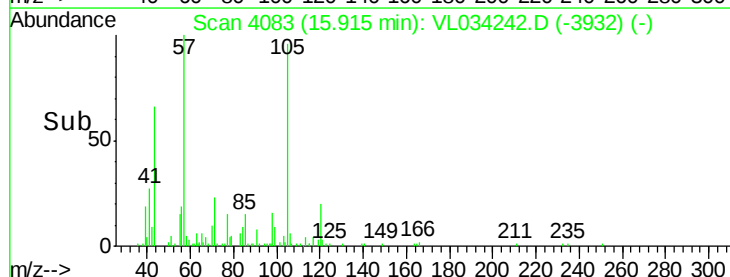
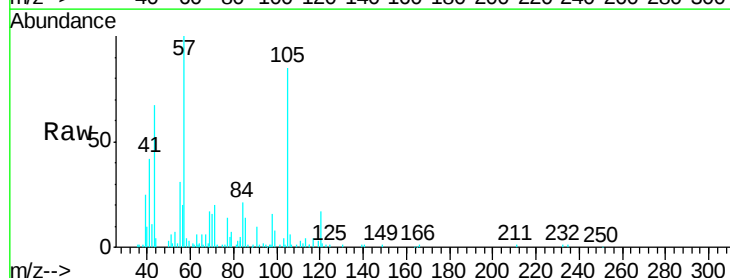
Ion Ratio Lower Upper

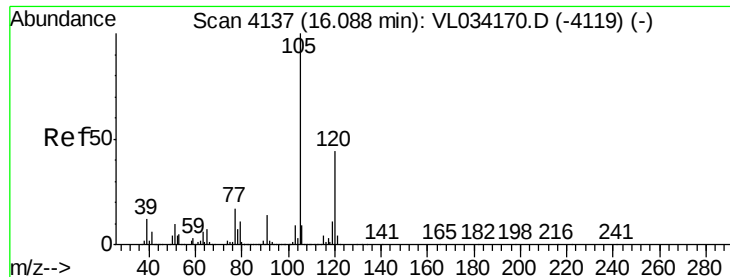
105 100

120 29.0 23.3 34.9

91 16.9 11.4 17.2

77 18.2 13.3 19.9





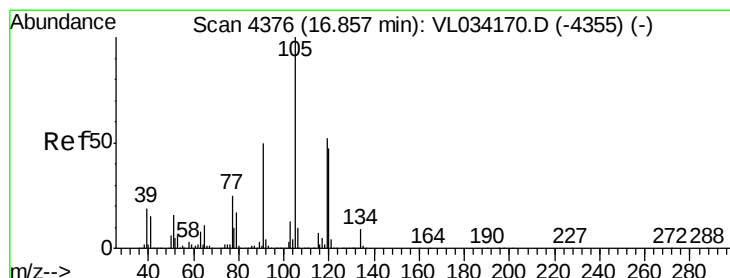
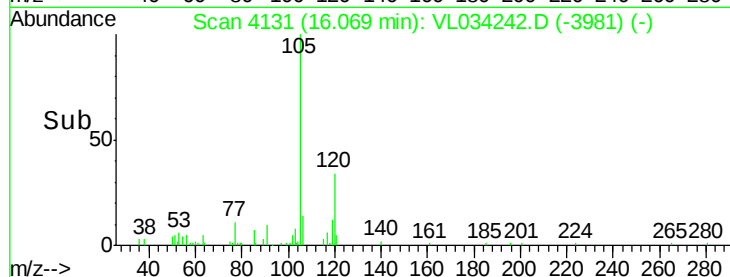
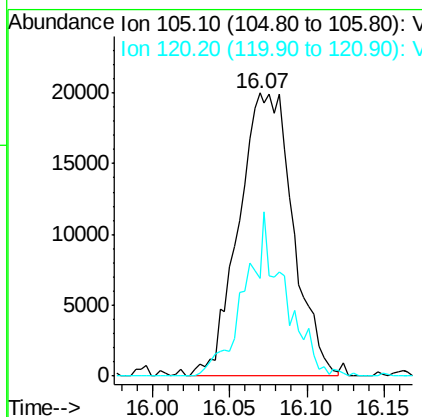
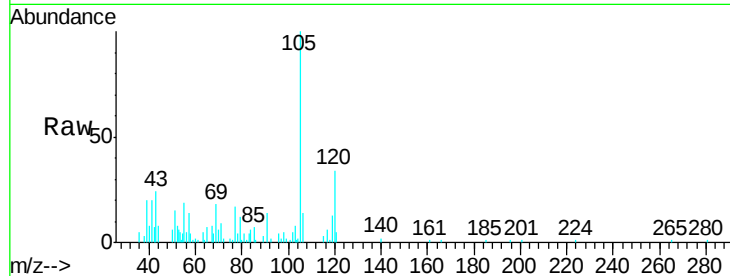
#73
 1,3,5-Trimethylbenzene
 Concen: 0.189 ppbv
 RT: 16.07 min Scan# 4131
 Delta R.T. -0.02 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Instrument :
 MSVOA_L
 ClientSampled :
 V-3DL

Tgt Ion:105 Resp: 48868
 Ion Ratio Lower Upper
 105 100
 120 34.4 35.6 53.4#

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.636 ppbv
 RT: 16.84 min Scan# 4370
 Delta R.T. -0.02 min
 Lab File: VL034242.D
 Acq: 8 Oct 2019 4:18

Tgt Ion:105 Resp: 174872
 Ion Ratio Lower Upper
 105 100
 120 39.4 37.5 56.3
 91 9.0 41.1 61.7#
 77 17.5 19.9 29.9#

