

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034254.D
 Acq On : 8 Oct 2019 18:34
 Operator : SY/AP
 Sample : K5222-03DL 40X
 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 5:07:07 PM

Quant Time: Oct 09 05:44:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	1164628	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1901705	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1942926	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1730899	10.25	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	2.99	41	27357	0.406	ppbv	88
13) Ethanol	3.59	45	249534	15.296	ppbv	99
15) Acetone	3.84	43	988580	6.333	ppbv	96
17) tert-Butyl alcohol	4.31	59	39632	0.401	ppbv	95
20) Methylene Chloride	4.35	84	28601m	0.636	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	209600	1.675	ppbv	96
34) 2-Butanone	5.27	43	66971	0.345	ppbv	98
36) Benzene	6.93	78	24867	0.118	ppbv	94
38) Trichloroethene	7.88	130	61620	0.821	ppbv	91
50) 4-Methyl-2-Pentanone	8.81	43	50017	0.177	ppbv #	85
52) Tetrachloroethene	11.29	164	1974404	28.453	ppbv	98
53) Toluene	9.86	91	86856	0.378	ppbv	98

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

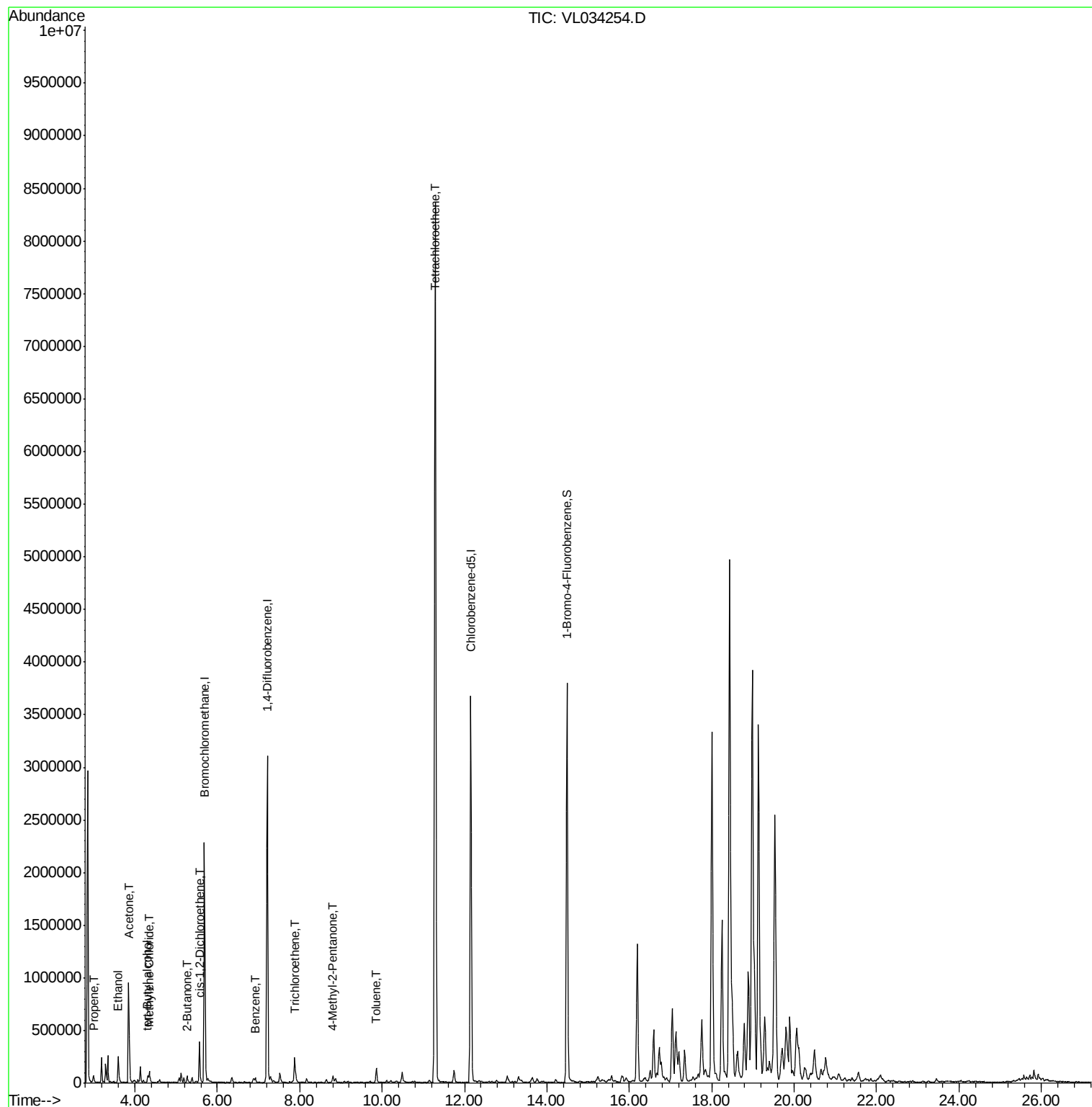
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
Data File : VL034254.D
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Operator : SY/AP
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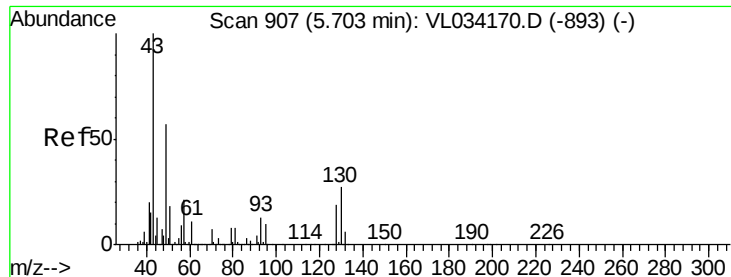
Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Manual Integrations
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Quant Time: Oct 09 05:44:22 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# 902

Delta R.T. -0.02 min

Lab File: VL034254.D

Acq: 8 Oct 2019 18:34

Instrument :

MSVOA_L

ClientSampled :

V-3DL

Tgt Ion: 49 Resp: 1164628

Ion Ratio Lower Upper

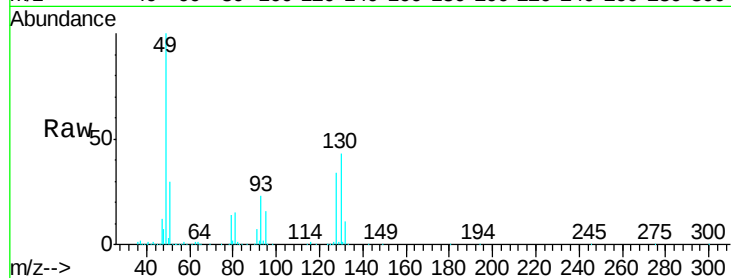
49 100

128 34.9 17.6 52.9

130 44.4 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): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

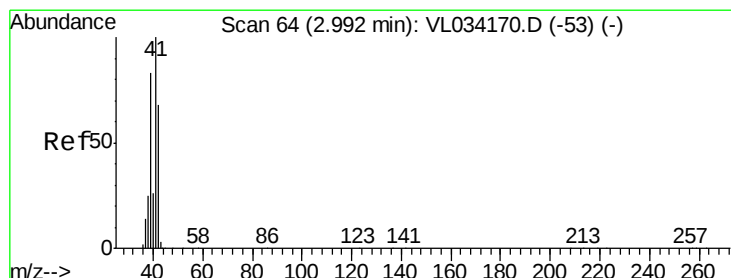
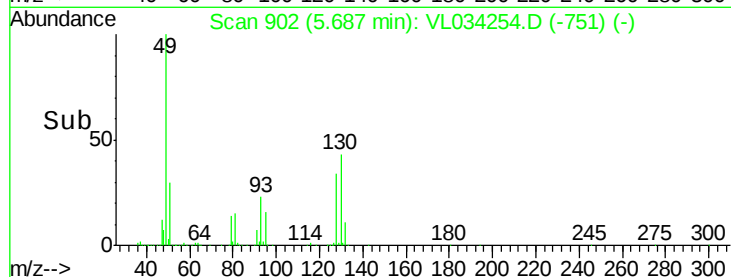
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#9

Propene

Concen: 0.406 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034254.D

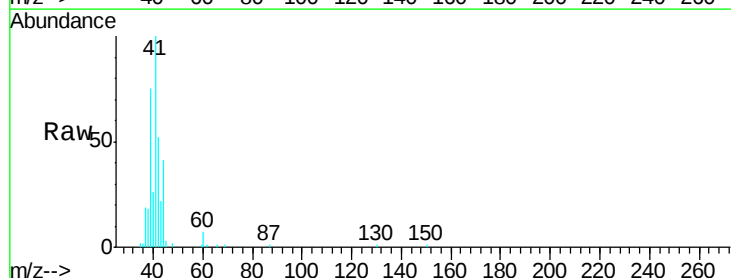
Acq: 8 Oct 2019 18:34

Tgt Ion: 41 Resp: 27357

Ion Ratio Lower Upper

41 100

42 60.2 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

20000

15000

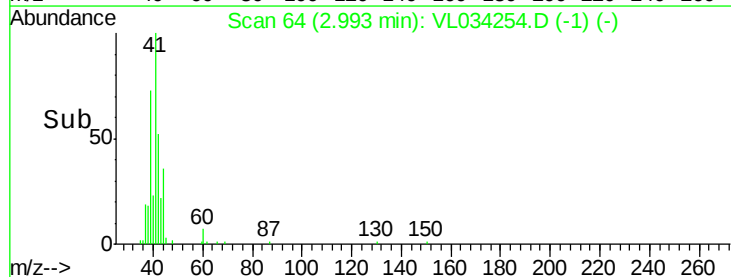
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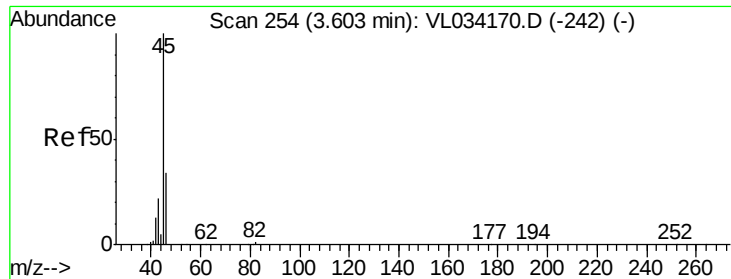
5000

0

2.95 3.00

Time-->





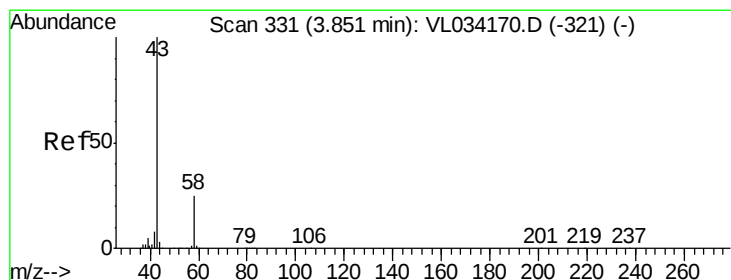
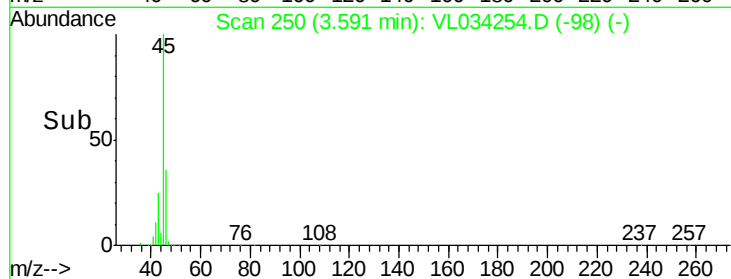
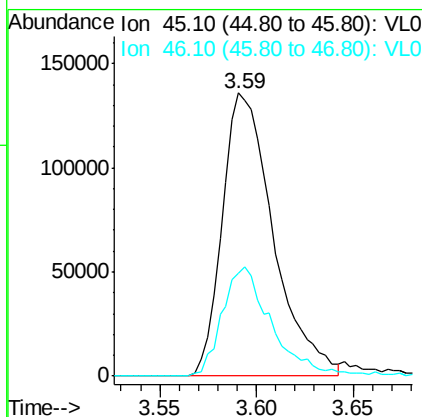
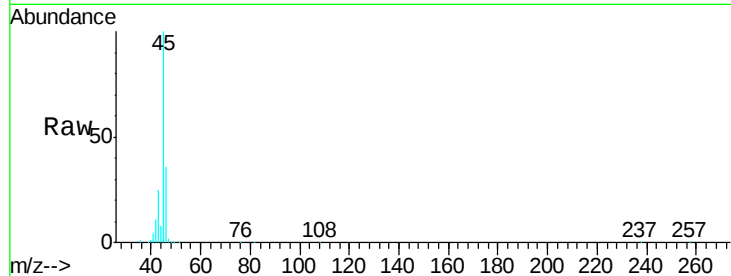
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Ethanol
Concen: 15.296 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.01 min
Lab File: VL034254.D
Acq: 8 Oct 2019 18:34

Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Tgt Ion: 45 Resp: 249534
Ion Ratio Lower Upper
45 100
46 38.1 15.5 61.9

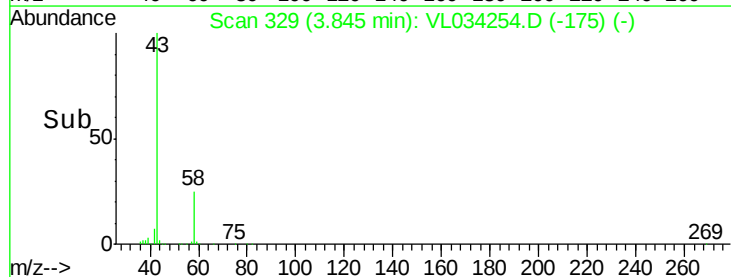
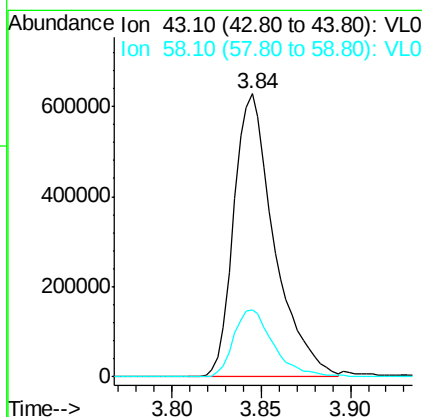
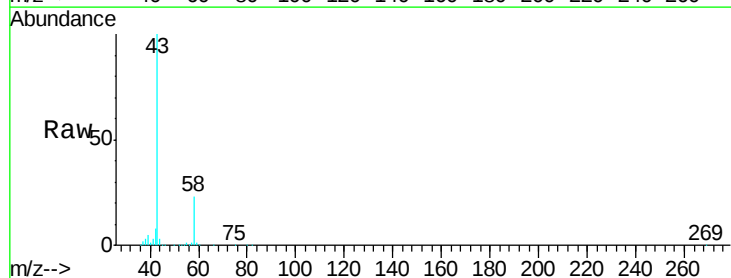
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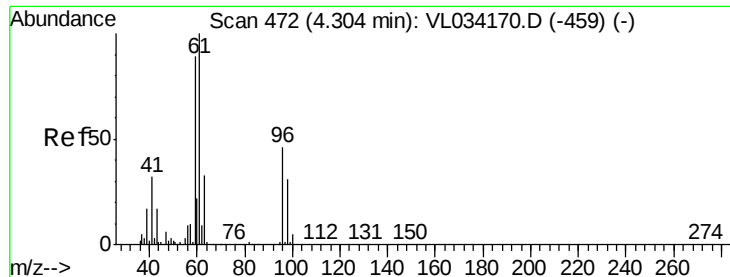
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#15
Acetone
Concen: 6.333 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034254.D
Acq: 8 Oct 2019 18:34

Tgt Ion: 43 Resp: 988580
Ion Ratio Lower Upper
43 100
58 23.7 20.5 30.7





#17

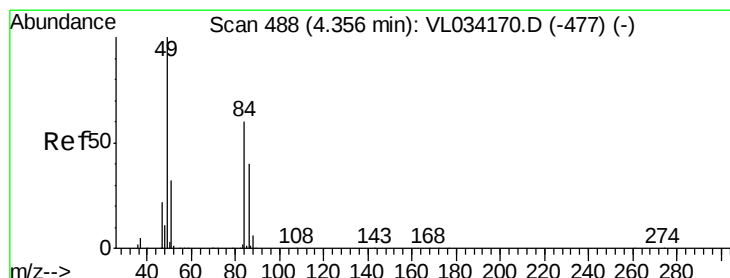
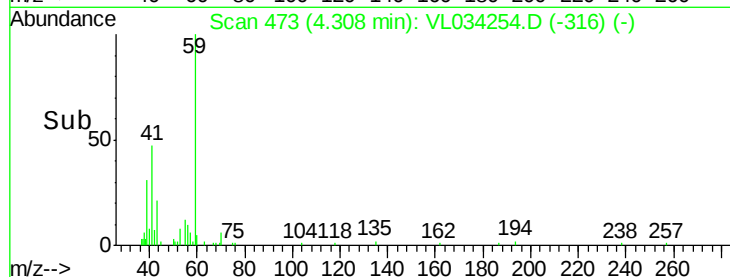
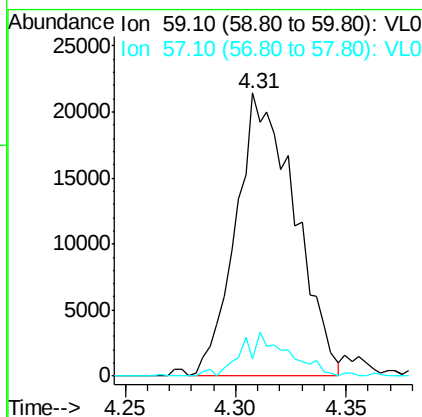
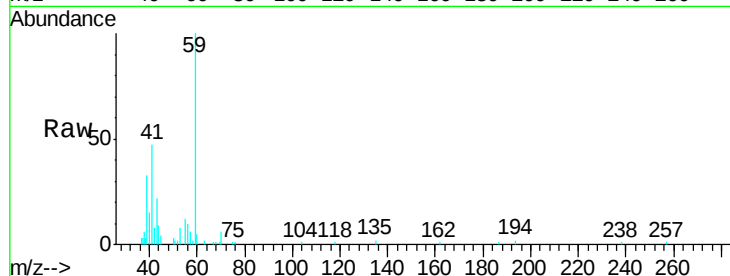
tert-Butyl alcohol
 Concen: 0.401 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.00 min
 Lab File: VL034254.D
 Acq: 8 Oct 2019 18:34

Instrument :
 MSVOA_L
 ClientSampleID :
 V-3DL

Tgt Ion: 59 Resp: 39632
 Ion Ratio Lower Upper
 59 100
 57 12.8 8.7 13.1

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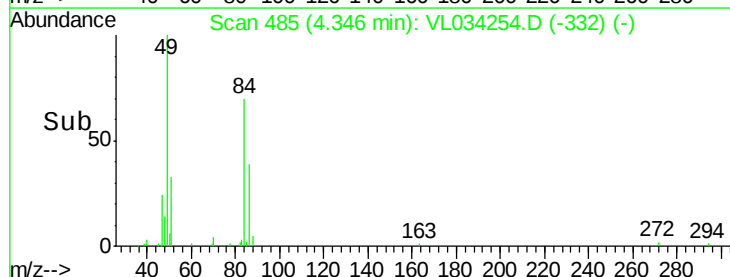
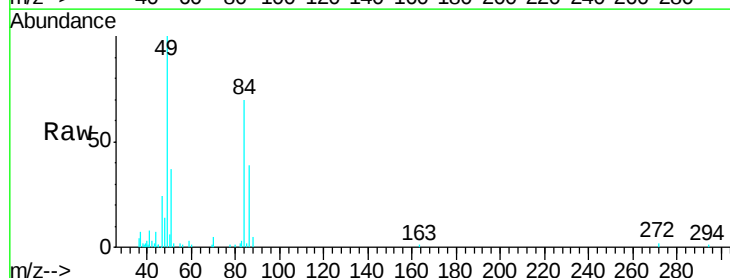
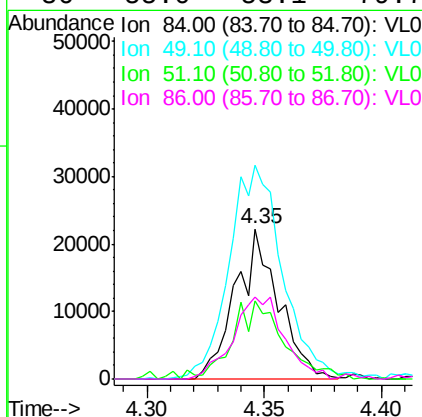
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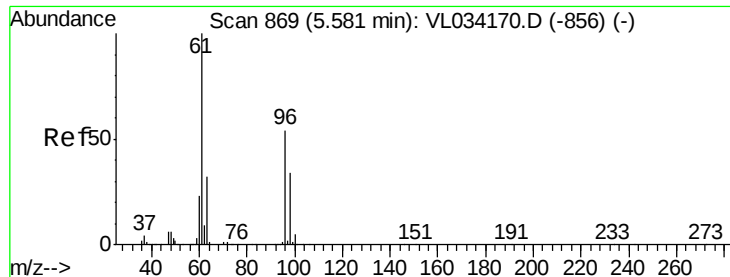


#20

Methylene Chloride
 Concen: 0.636 ppbv m
 RT: 4.35 min Scan# 485
 Delta R.T. -0.01 min
 Lab File: VL034254.D
 Acq: 8 Oct 2019 18:34

Tgt Ion: 84 Resp: 28601
 Ion Ratio Lower Upper
 84 100
 49 142.3 133.8 200.8
 51 52.4 43.6 65.4
 86 55.0 53.1 79.7





#31

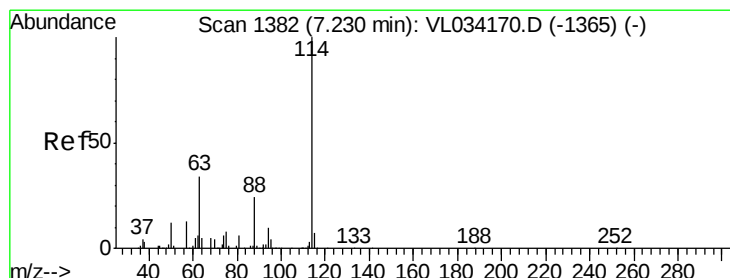
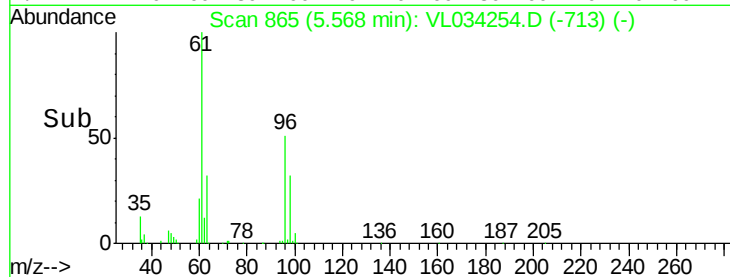
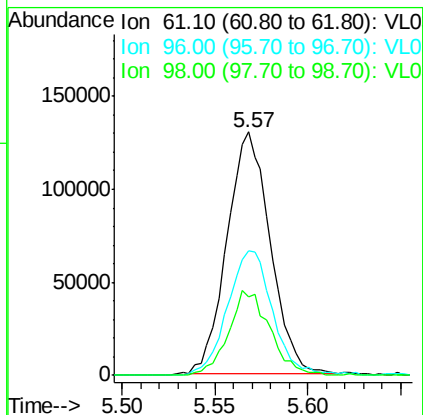
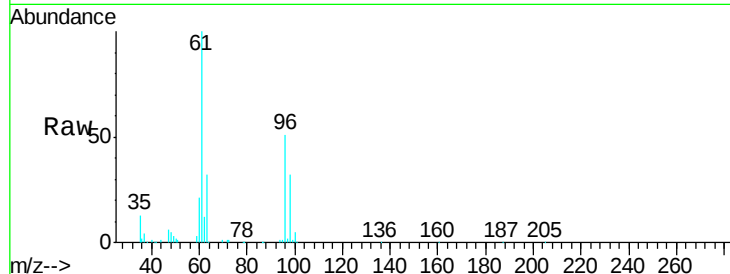
cis-1,2-Dichloroethene
 Concen: 1.675 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: VL034254.D
 Acq: 8 Oct 2019 18:34

Instrument :
 MSVOA_L
 ClientSampled :
 V-3DL

Tgt Ion	Ratio	Lower	Upper
61	100		
96	50.5	43.0	64.4
98	32.2	27.2	40.8

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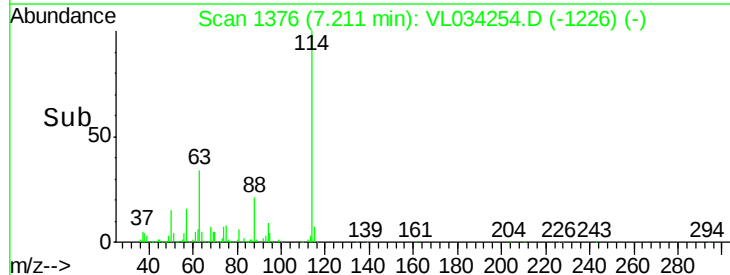
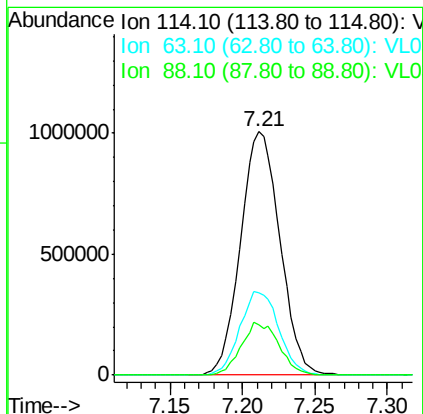
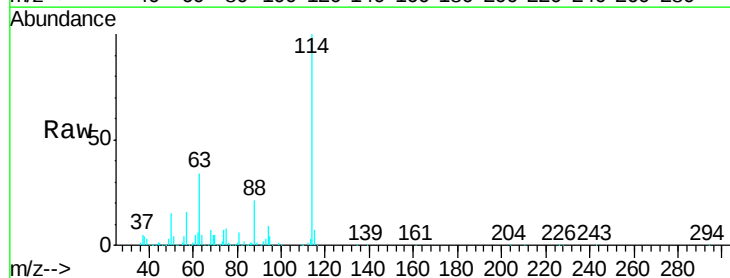
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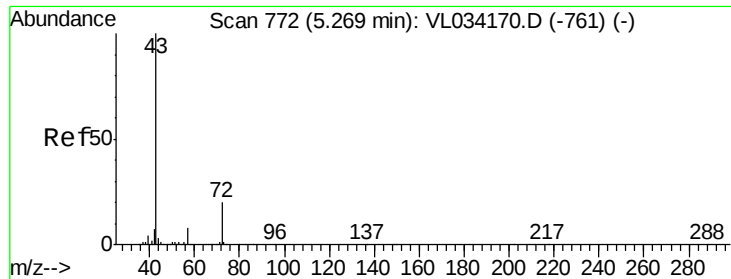


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VL034254.D
 Acq: 8 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
114	100		
63	34.2	27.8	41.6
88	21.0	17.1	25.7





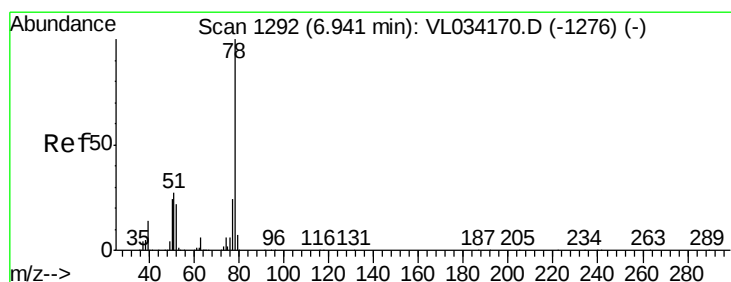
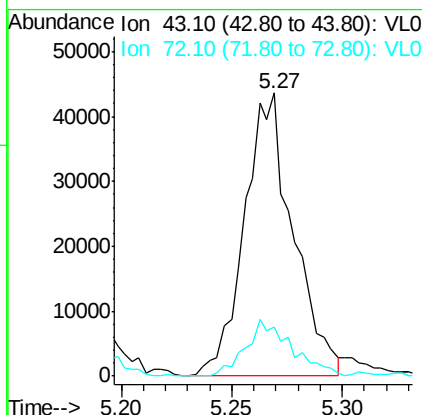
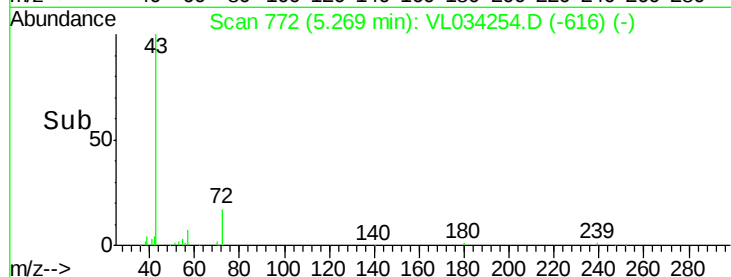
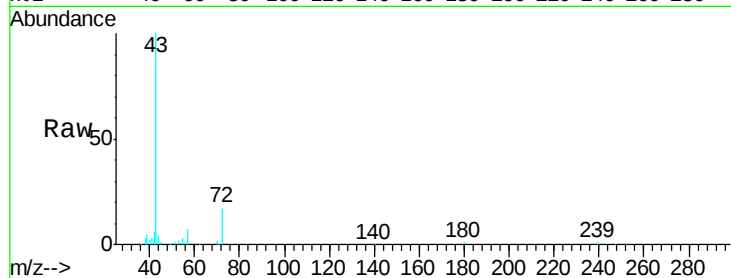
#34
2-Butanone
Concen: 0.345 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.00 min
Lab File: VL034254.D
Acq: 8 Oct 2019 18:34

Instrument :
MSVOA_L
ClientSampleId :
V-3DL

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.6	15.0	22.6

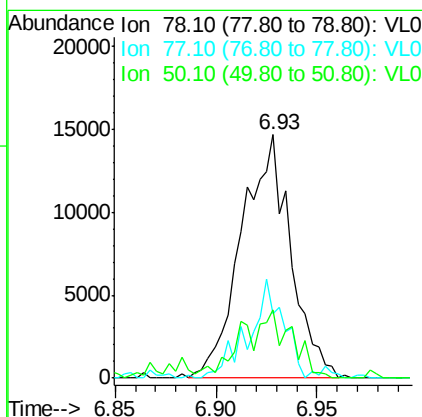
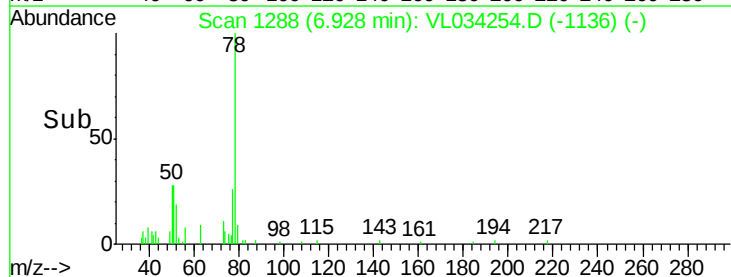
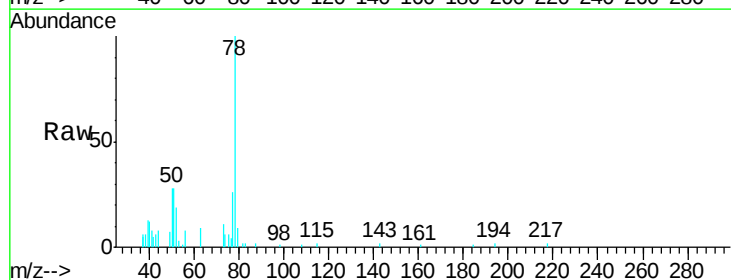
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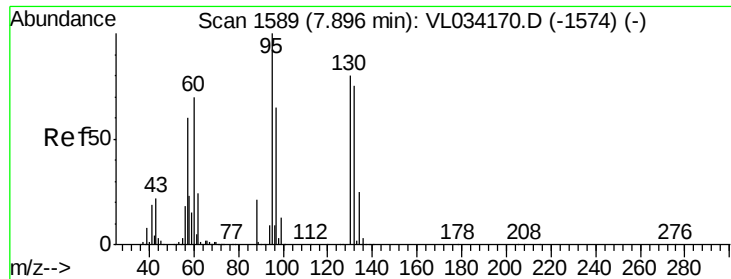
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#36
Benzene
Concen: 0.118 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VL034254.D
Acq: 8 Oct 2019 18:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.0	28.4
50	28.2	18.9	28.3





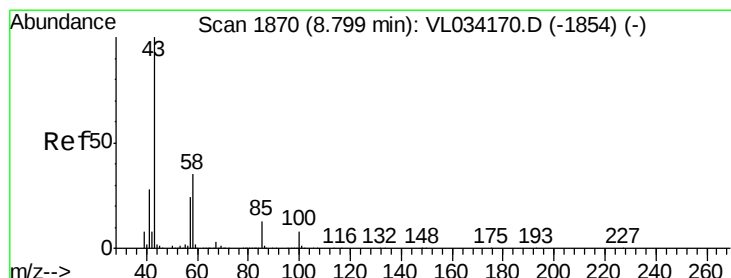
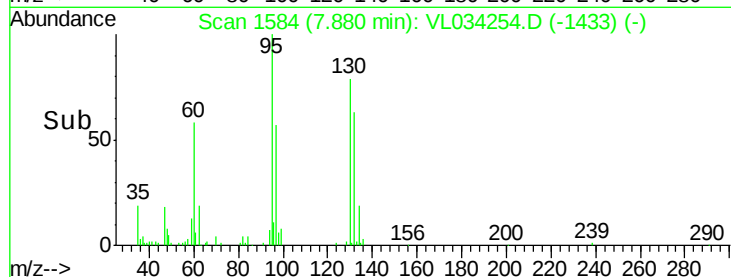
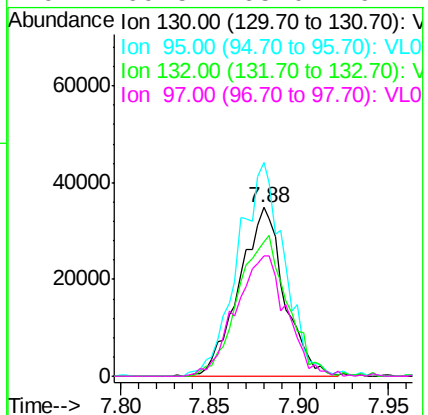
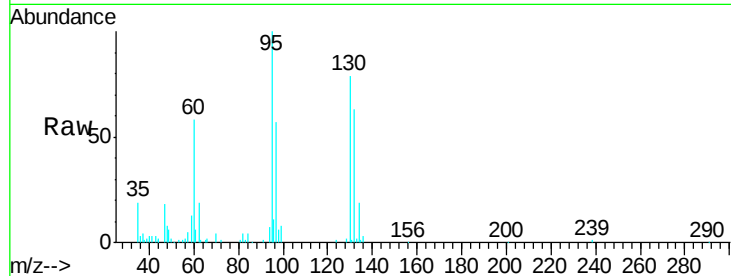
#38
 Trichloroethene
 Concen: 0.821 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.02 min
 Lab File: VL034254.D
 Acq: 8 Oct 2019 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 V-3DL

Tgt Ion:	130	Resp:	61620
Ion Ratio	Lower	Upper	
130	100		
95	122.5	99.8	149.6
132	78.7	75.2	112.8
97	69.5	65.0	97.4

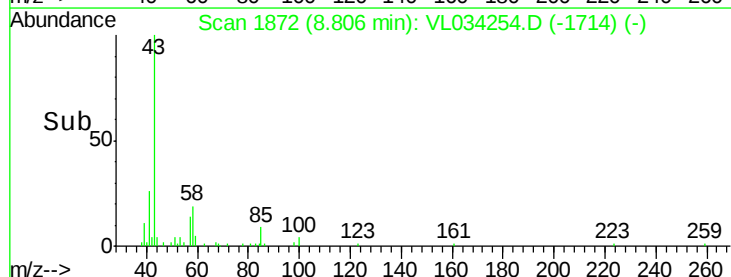
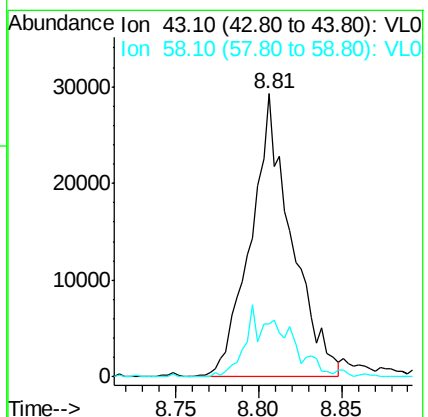
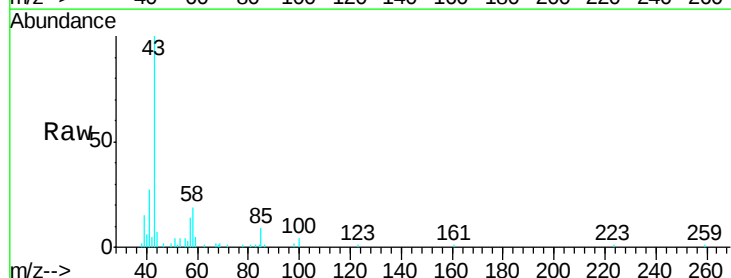
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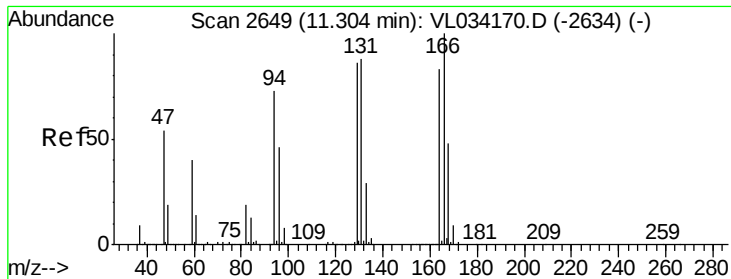
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#50
 4-Methyl-2-Pentanone
 Concen: 0.177 ppbv
 RT: 8.81 min Scan# 1872
 Delta R.T. 0.01 min
 Lab File: VL034254.D
 Acq: 8 Oct 2019 18:34

Tgt Ion:	43	Resp:	50017
Ion Ratio	Lower	Upper	
43	100		
58	25.9	27.6	41.4#





#52

Tetrachloroethene

Concen: 28.453 ppbv

RT: 11.29 min Scan# 2644

Delta R.T. -0.02 min

Lab File: VL034254.D

Acq: 8 Oct 2019 18:34

Instrument :

MSVOA_L

ClientSampled :

V-3DL

Tgt Ion:164 Resp: 1974404

Ion Ratio Lower Upper

164 100

166 123.6 96.7 145.1

129 105.6 82.8 124.2

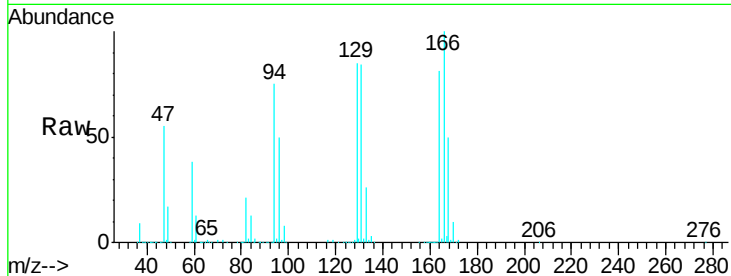
131 103.7 85.0 127.6

Manual Integrations

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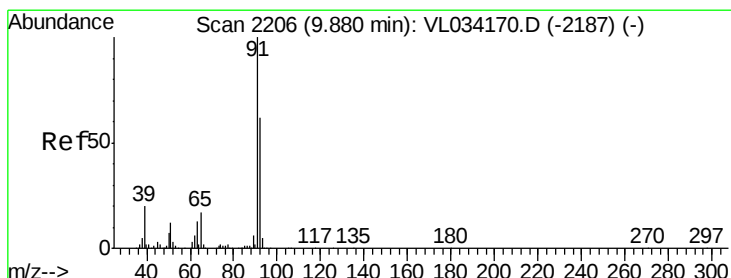
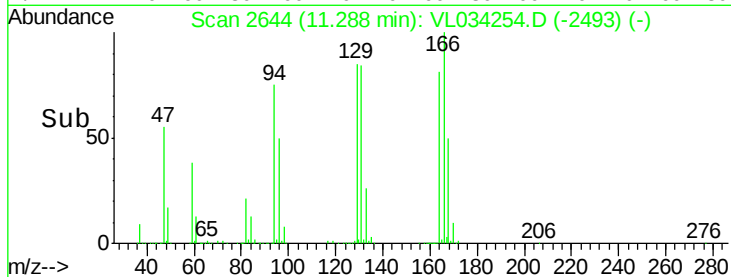
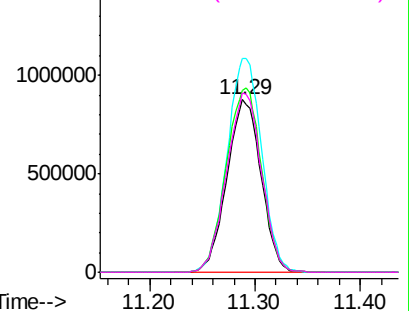


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.378 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034254.D

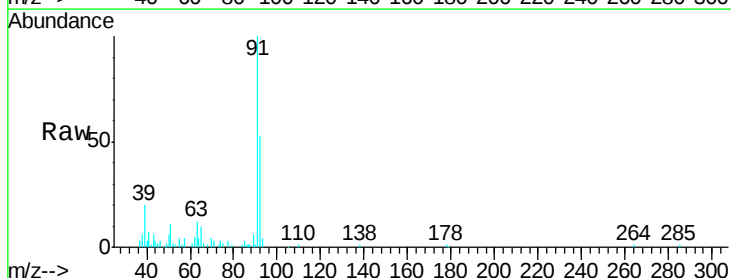
Acq: 8 Oct 2019 18:34

Tgt Ion: 91 Resp: 86856

Ion Ratio Lower Upper

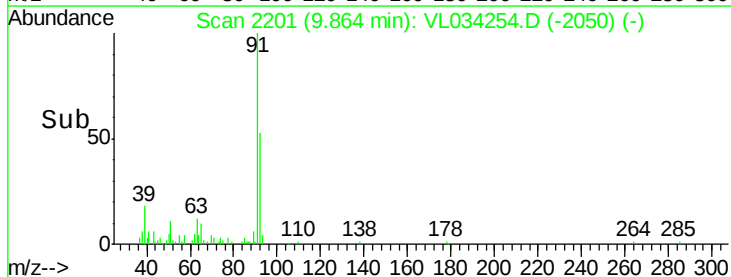
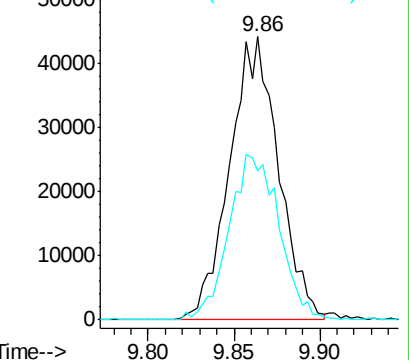
91 100

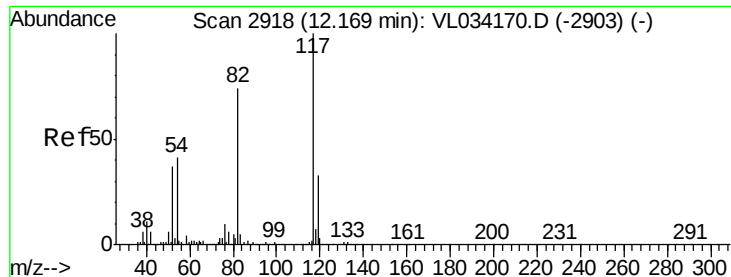
92 60.0 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





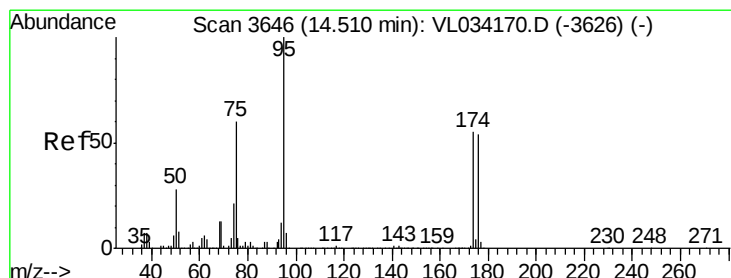
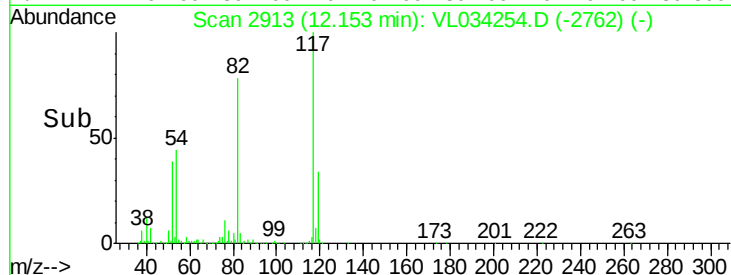
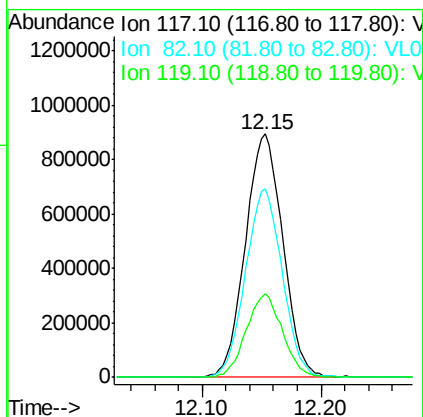
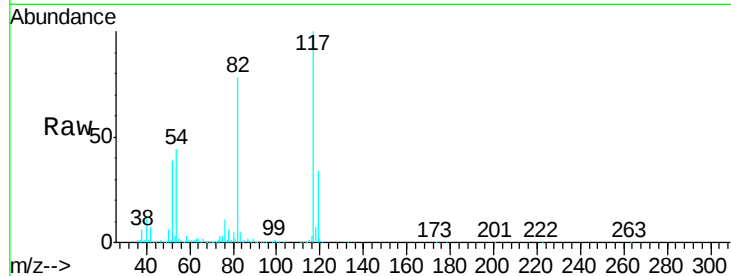
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.02 min
Lab File: VL034254.D
Acq: 8 Oct 2019 18:34

Instrument :
MSVOA_L
ClientSampled :
V-3DL

Tgt Ion: 117 Resp: 1942926
Ion Ratio Lower Upper
117 100
82 76.5 58.2 87.4
119 33.4 23.7 35.5

Manual Integrations
APPROVED

MMDadoda
10/11/2019 5:07:07 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.253 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034254.D
Acq: 8 Oct 2019 18:34

Tgt Ion: 95 Resp: 1730899
Ion Ratio Lower Upper
95 100
174 55.5 45.1 67.7
175 4.1 3.3 4.9

