

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035436.D
 Acq On : 18 Aug 2020 8:42
 Operator : SY/AP
 Sample : L3699-01DL DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DL DUP

Manual Integrations
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 8/20/2020 11:06:08 AM

Quant Time: Aug 19 16:49:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 18 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1152519	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5247680	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5211670	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	3791025	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	151142	2.602	ppbv #	64
10) Heptane	8.14	43	33268	0.218	ppbv #	79
13) Ethanol	3.61	45	3553996	167.006	ppbv	98
15) Acetone	3.86	43	291485m	2.197	ppbv	
17) tert-Butyl alcohol	4.32	59	71891	0.419	ppbv	100
26) Hexane	5.70	57	58025	0.398	ppbv #	33
34) 2-Butanone	5.26	43	25918	0.148	ppbv #	69
36) Benzene	6.91	78	39493	0.103	ppbv #	89
44) 2,2,4-Trimethylpentane	7.89	57	61958	0.123	ppbv	93
52) Tetrachloroethene	11.25	164	36321	0.155	ppbv #	85
53) Toluene	9.83	91	298810	0.602	ppbv	98
58) Ethyl Benzene	12.74	91	163567	0.260	ppbv	90
59) m/p-Xylene	13.00	91	488811	0.919	ppbv #	83
60) o-Xylene	13.72	91	209037	0.404	ppbv	89
64) n-propylbenzene	15.60	120	58311m	0.223	ppbv	
65) tert-Butylbenzene	16.79	119	140052	0.170	ppbv #	86
72) 4-Ethyltoluene	15.87	105	345533	0.509	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.03	105	270762	0.429	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	1115201	1.626	ppbv #	71

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

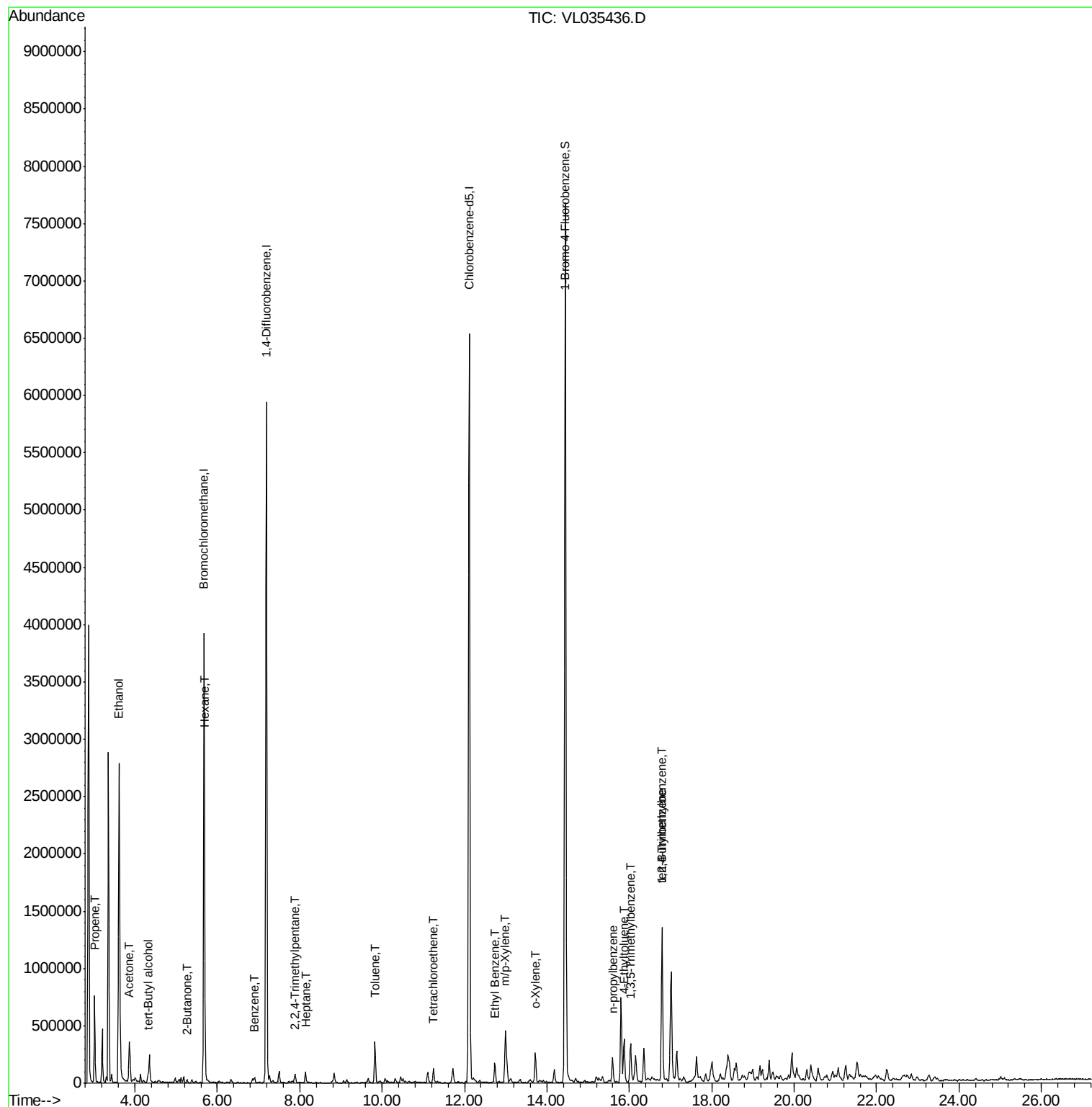
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081720\
Data File : VL035436.D
Acq On : 18 Aug 2020 8:42
Operator : SY/AP
Sample : L3699-01DL DUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

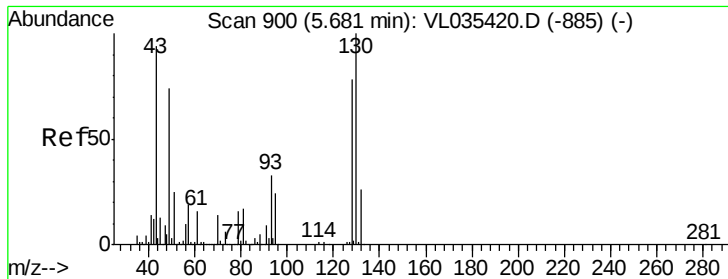
Instrument :
MSVOA_L
ClientSampleId :
DR-1DL DUP

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8/20/2020 11:06:08 AM

Quant Time: Aug 19 16:49:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

Tot Ion: 49 Resp: 1152519

Ion Ratio Lower Upper

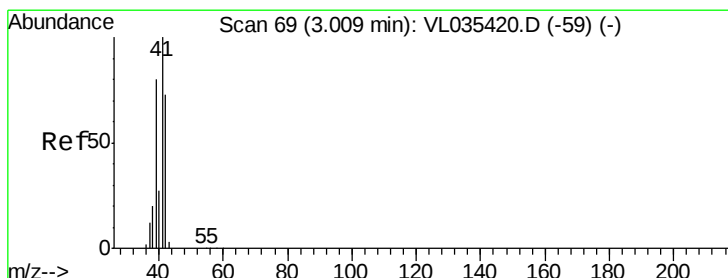
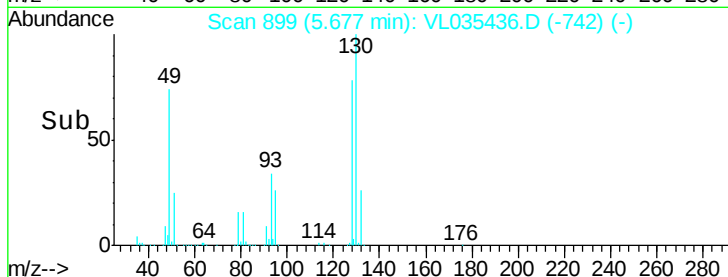
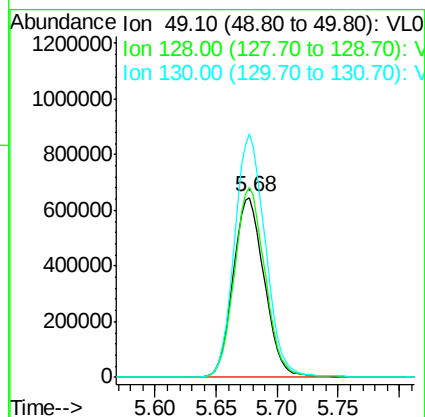
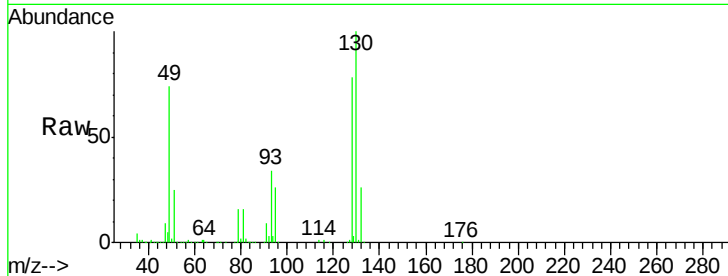
49 100

128 104.5 20.9 62.7#

130 134.4 26.7 80.1#

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#9

Propene

Concen: 2.602 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL035436.D

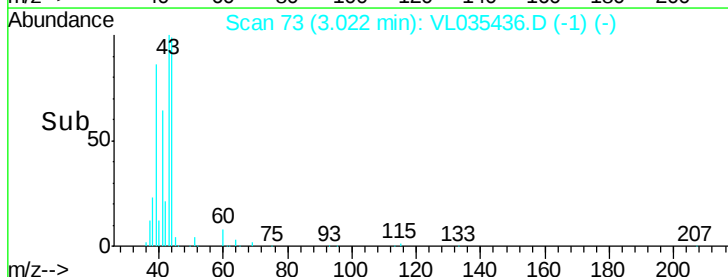
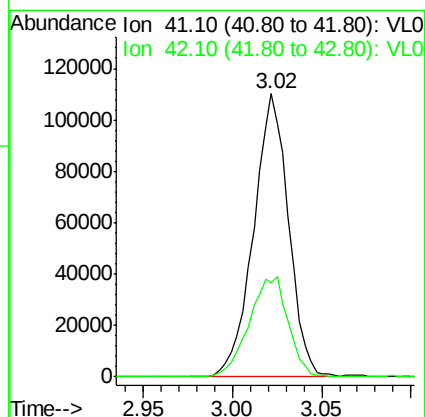
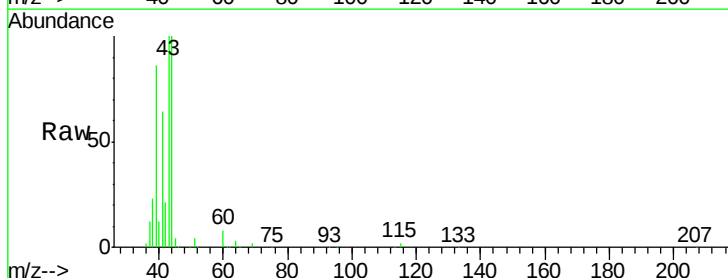
Acq: 18 Aug 2020 8:42

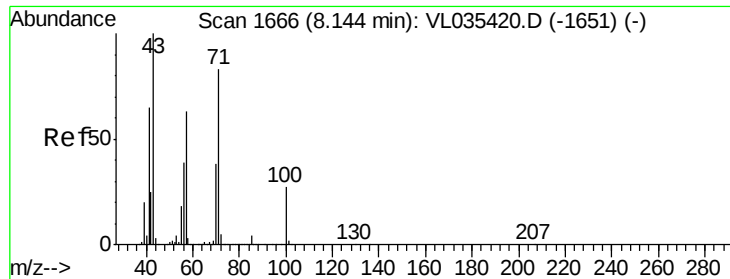
Tgt Ion: 41 Resp: 151142

Ion Ratio Lower Upper

41 100

42 39.7 55.5 83.3#





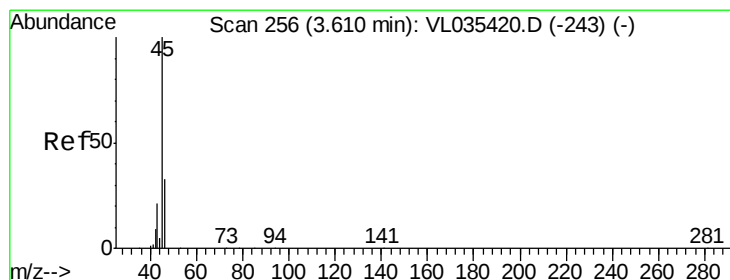
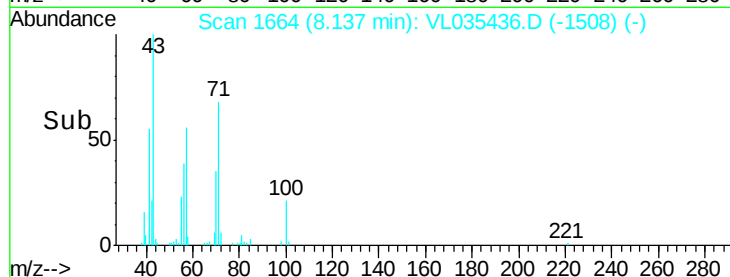
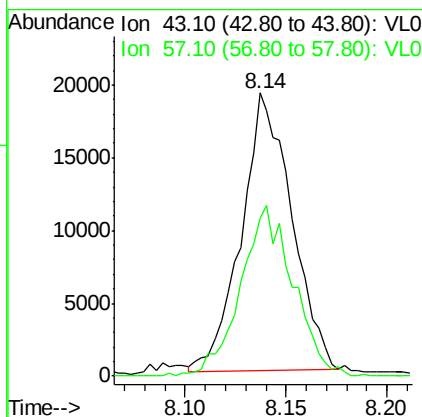
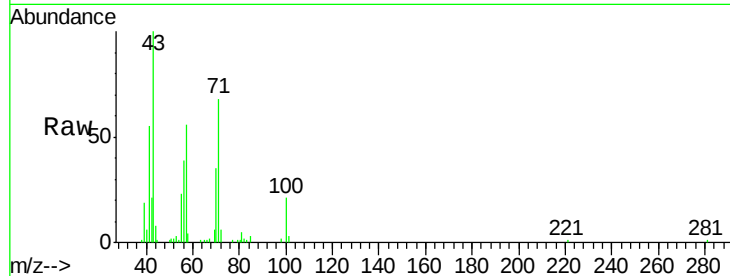
#10
Heptane
Concen: 0.218 ppbv
RT: 8.14 min Scan# 1664
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Instrument :
MSVOA_L
ClientSampleId :
DR-1DLDP

Tot Ion: 43 Resp: 33268
Ion Ratio Lower Upper
43 100
57 64.0 39.8 59.6#

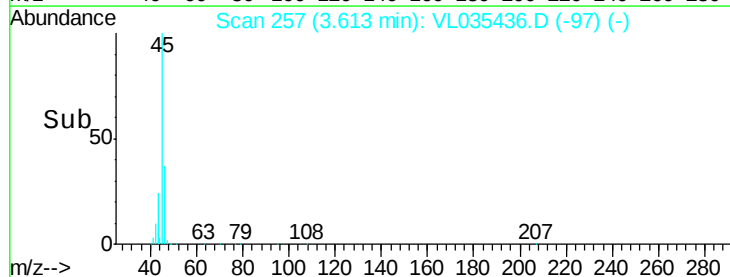
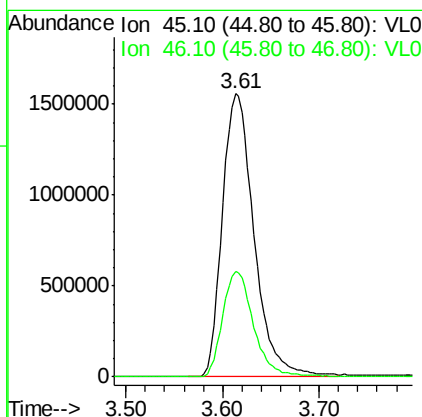
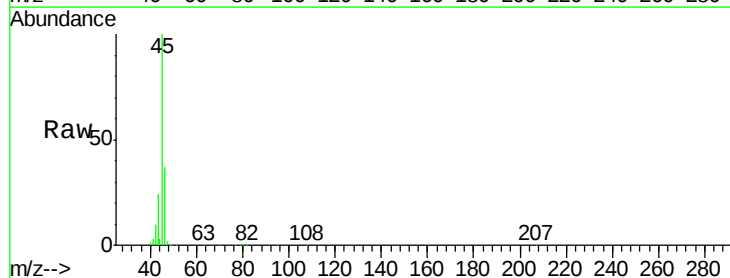
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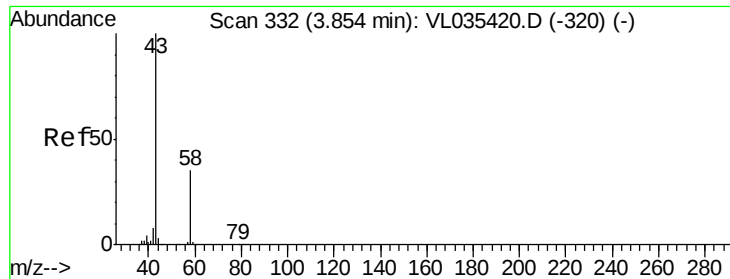
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#13
Ethanol
Concen: 167.006 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 45 Resp: 3553996
Ion Ratio Lower Upper
45 100
46 36.7 14.2 56.6





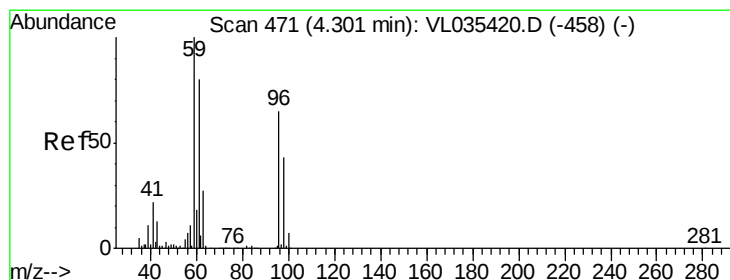
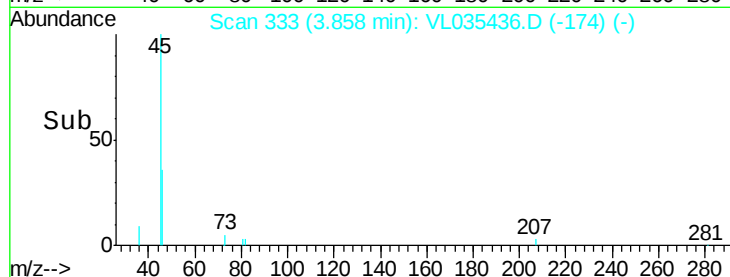
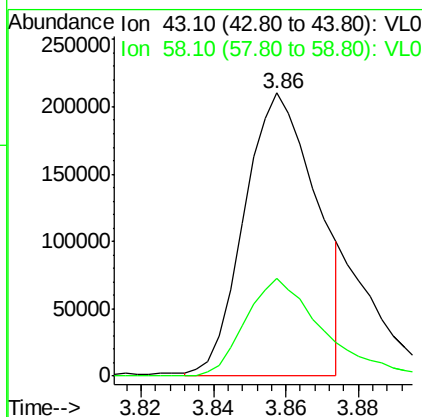
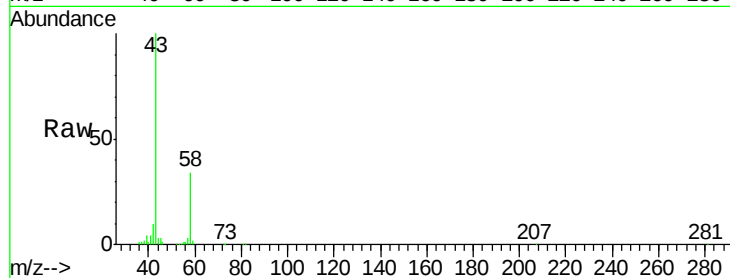
#15
Acetone
Concen: 2.197 ppbv m
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Instrument :
MSVOA_L
ClientSampleId :
DR-1DLDP

Tot Ion: 43 Resp: 291485
Ion Ratio Lower Upper
43 100
58 37.0 21.0 31.6#

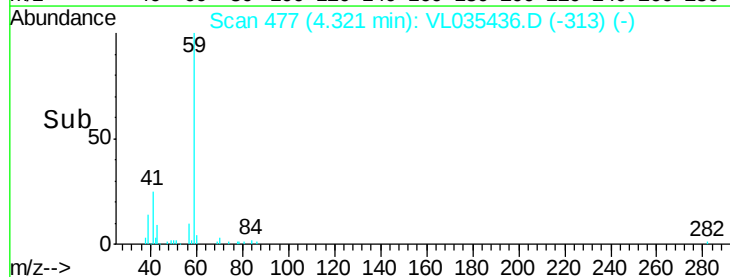
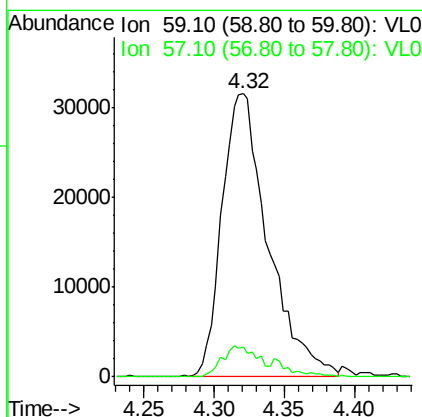
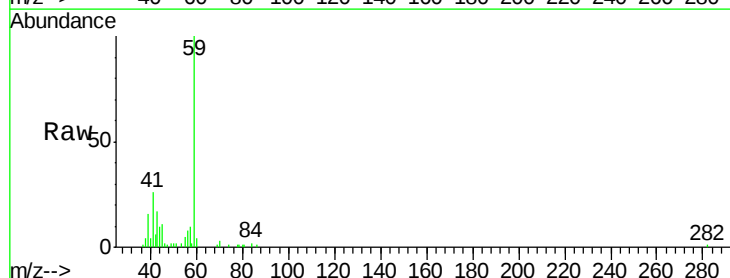
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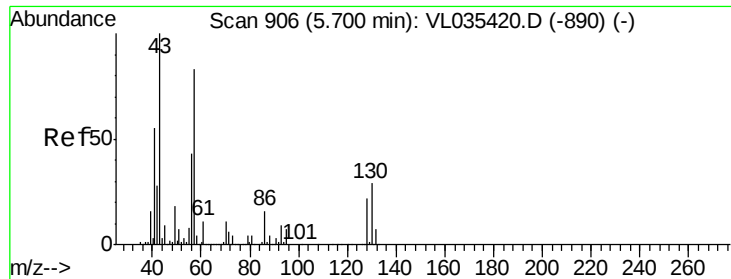
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#17
tert-Butyl alcohol
Concen: 0.419 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.03 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 59 Resp: 71891
Ion Ratio Lower Upper
59 100
57 11.1 8.9 13.3





#26

Hexane

Concen: 0.398 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

Tot Ion: 57 Resp: 58025

Ion Ratio Lower Upper

57 100

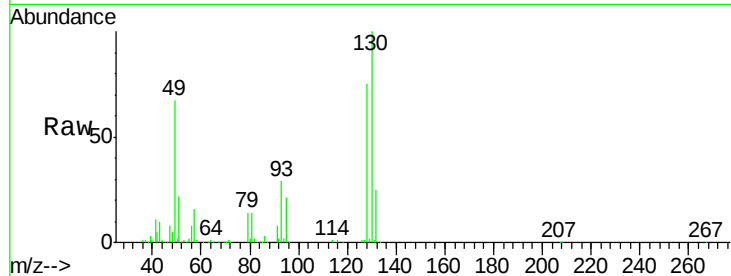
41 70.4 75.5 113.3#

43 62.3 181.7 272.5#

56 52.1 42.4 63.6

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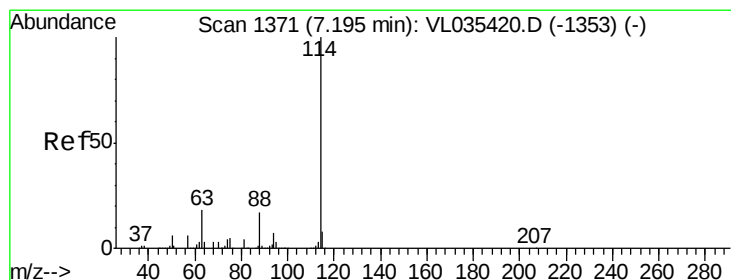
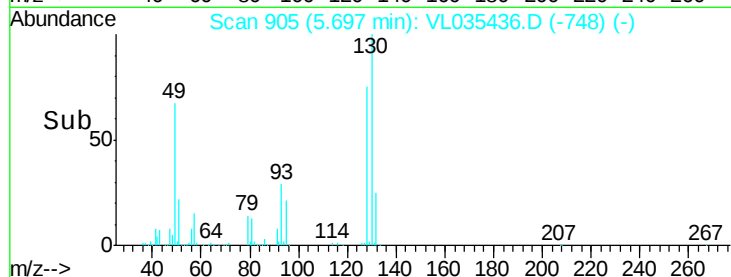
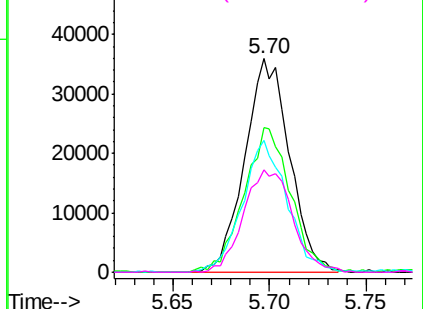


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

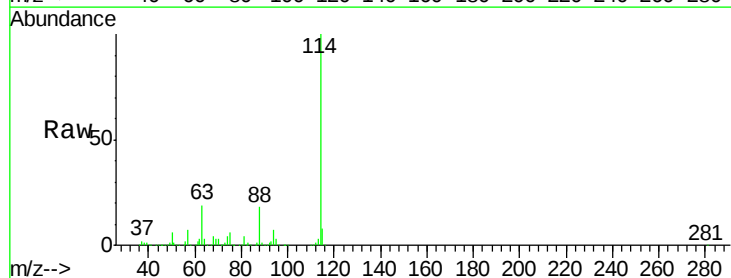
Tgt Ion: 114 Resp: 5247680

Ion Ratio Lower Upper

114 100

63 17.4 23.1 34.7#

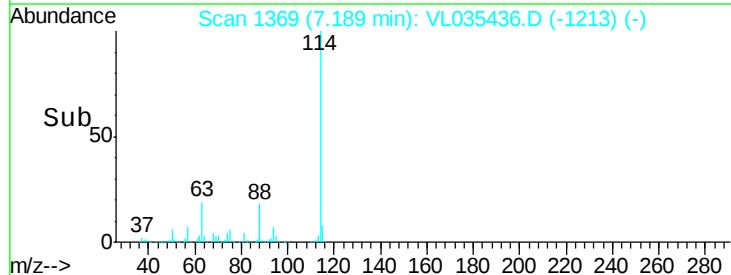
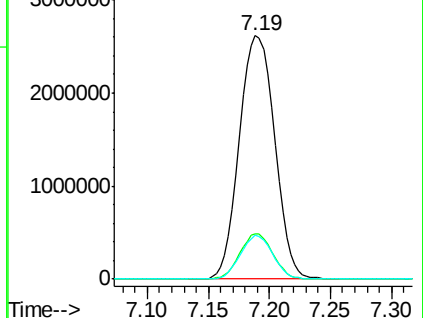
88 16.6 15.9 23.9

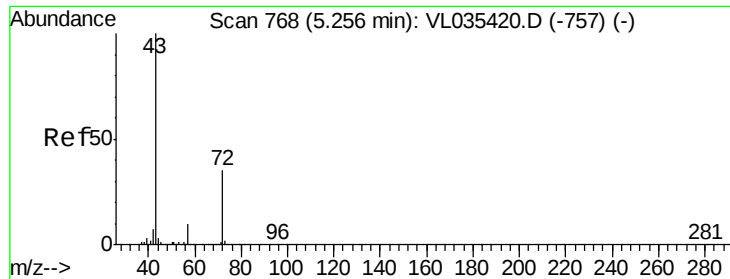


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





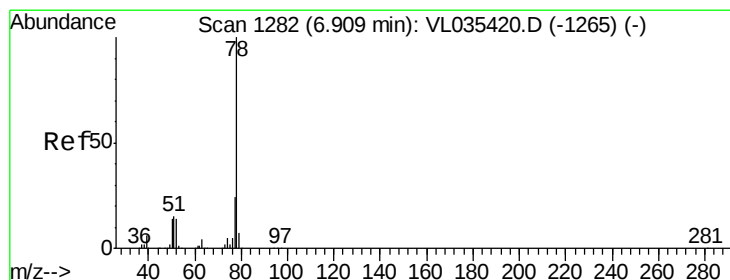
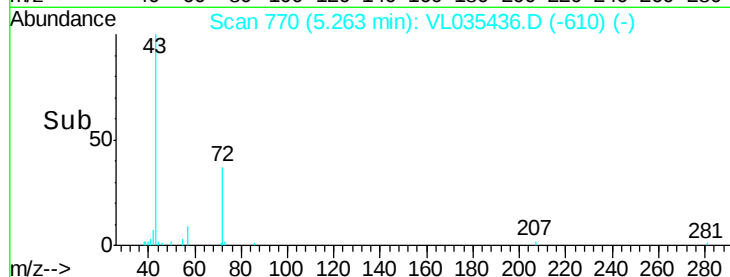
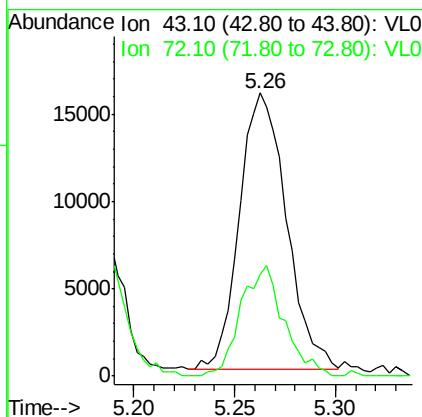
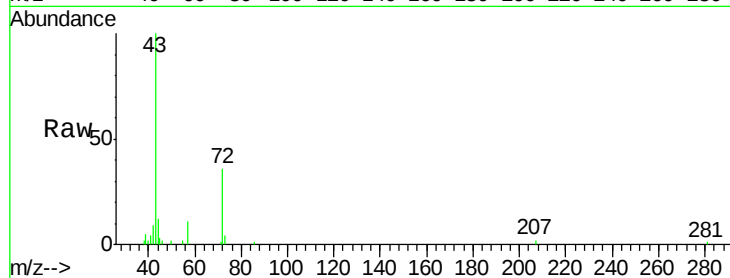
#34
2-Butanone
Concen: 0.148 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Instrument :
MSVOA_L
ClientSampleId :
DR-1DLDP

Tot Ion: 43 Resp: 25918
Ion Ratio Lower Upper
43 100
72 36.9 17.6 26.4#

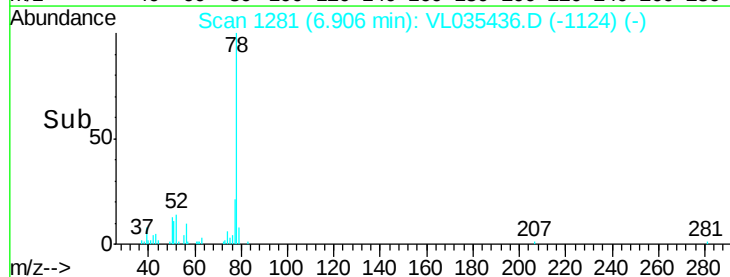
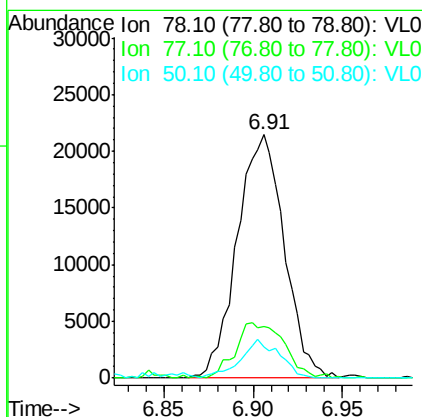
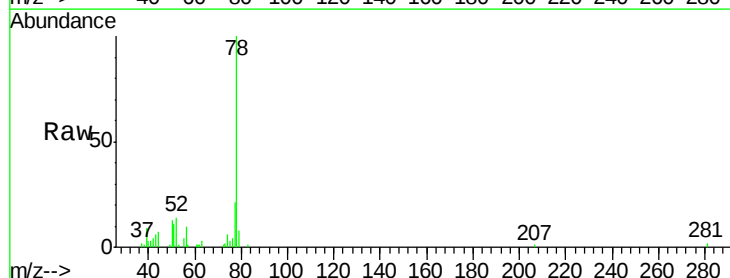
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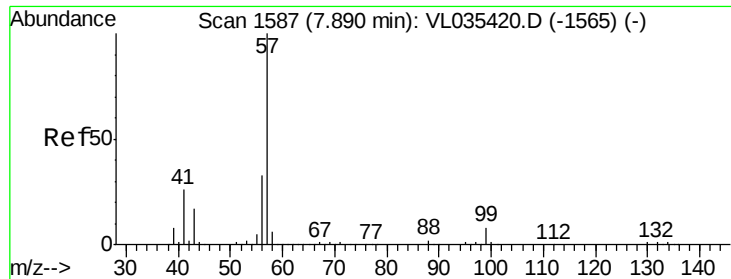
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#36
Benzene
Concen: 0.103 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 78 Resp: 39493
Ion Ratio Lower Upper
78 100
77 21.0 19.6 29.4
50 12.7 16.3 24.5#





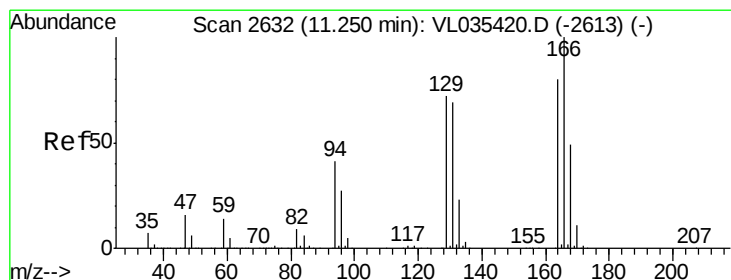
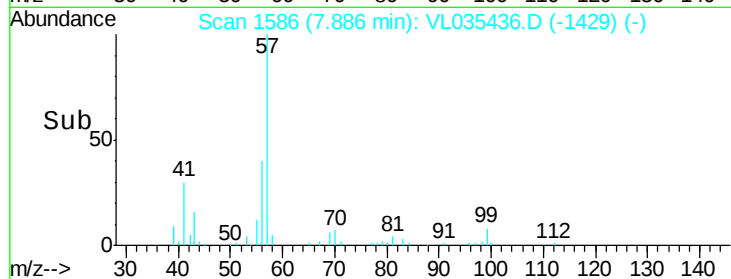
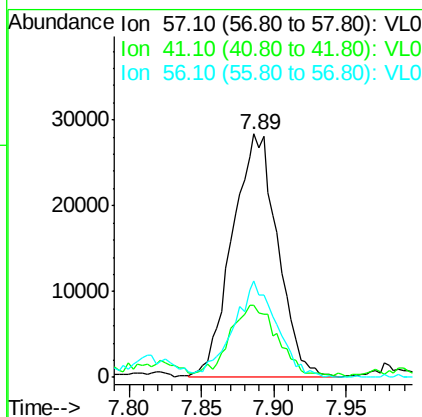
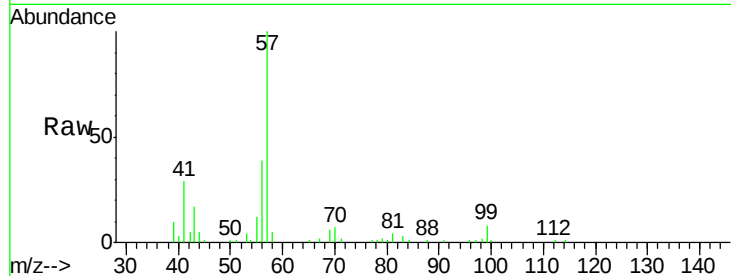
#44
2,2,4-Trimethylpentane
Concen: 0.123 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Instrument :
MSVOA_L
ClientSampleId :
DR-1DLDP

Tot Ion	Ratio	Lower	Upper
57	100		
41	31.8	27.2	40.8
56	37.6	25.4	38.0

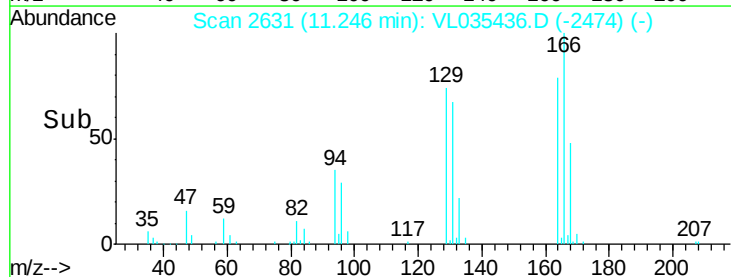
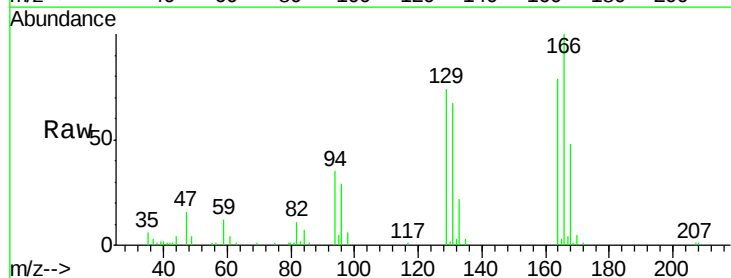
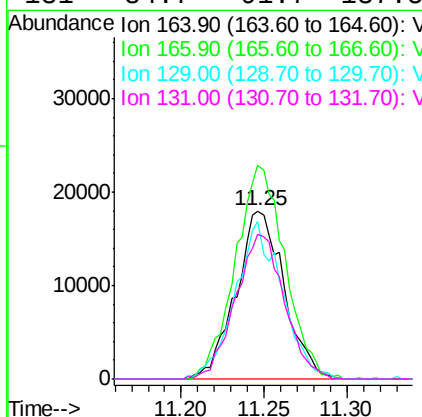
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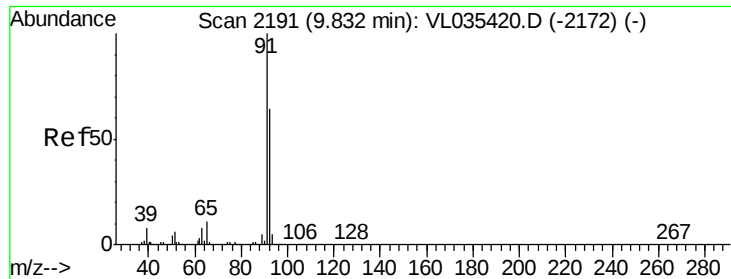
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#52
Tetrachloroethene
Concen: 0.155 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.9	103.4	155.0
129	93.8	90.2	135.4
131	84.7	91.7	137.5#





#53

Toluene

Concen: 0.602 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

Tot Ion: 91 Resp: 298810

Ion Ratio Lower Upper

91 100

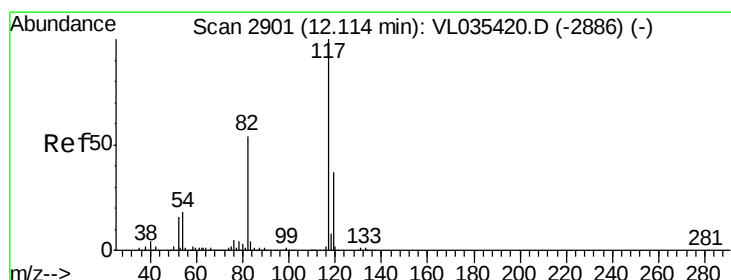
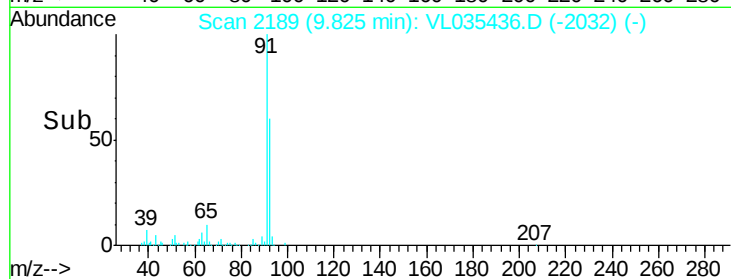
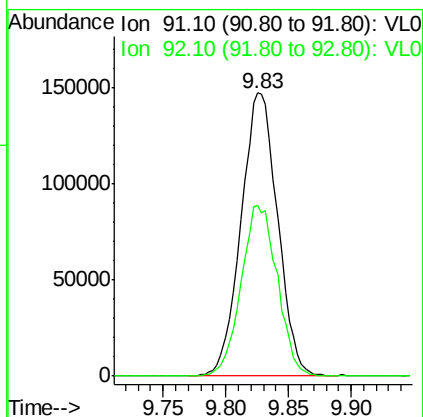
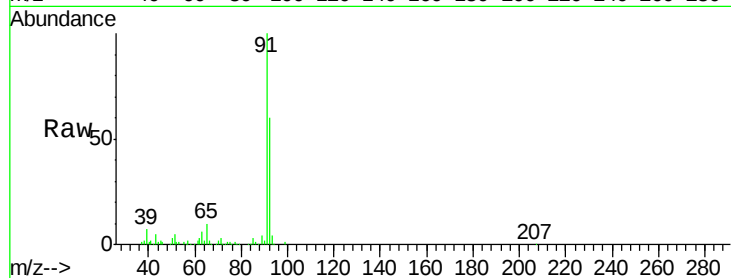
92 59.8 49.1 73.7

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

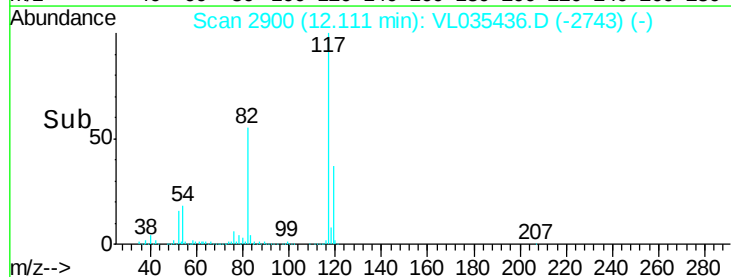
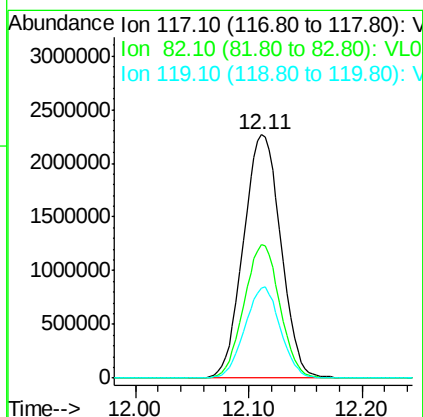
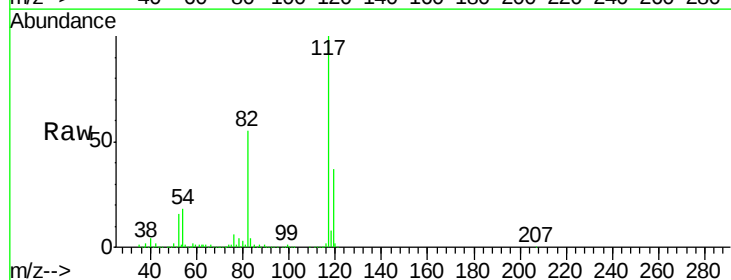
Tgt Ion: 117 Resp: 5211670

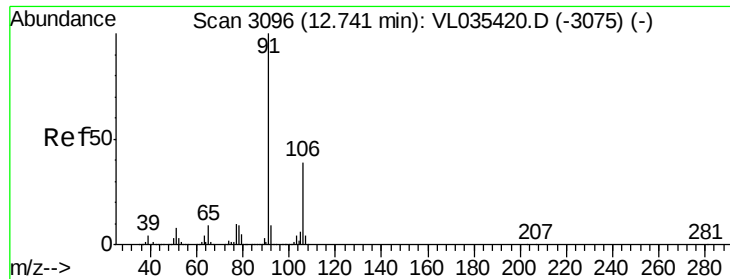
Ion Ratio Lower Upper

117 100

82 52.7 57.4 86.0#

119 35.5 28.4 42.6





#58

Ethyl Benzene

Concen: 0.260 ppbv

RT: 12.74 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampled :

DR-1DLDP

Tot Ion: 91 Resp: 163567

Ion Ratio Lower Upper

91 100

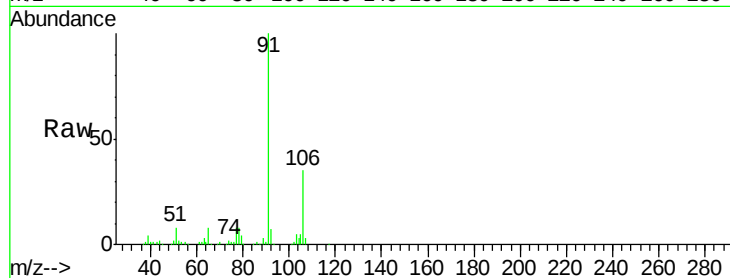
106 35.5 24.1 36.1

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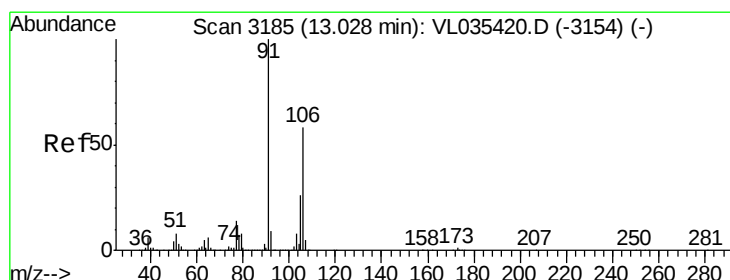
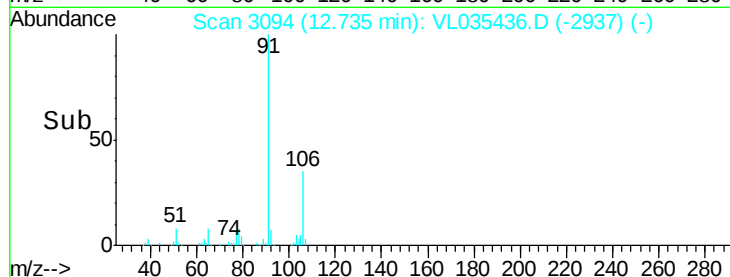
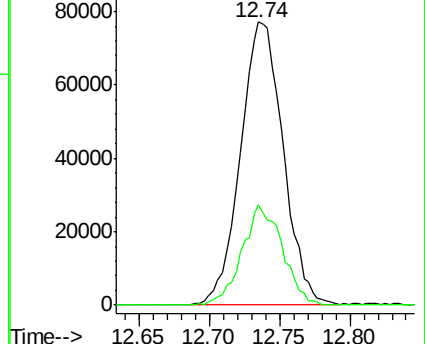
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.919 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL035436.D

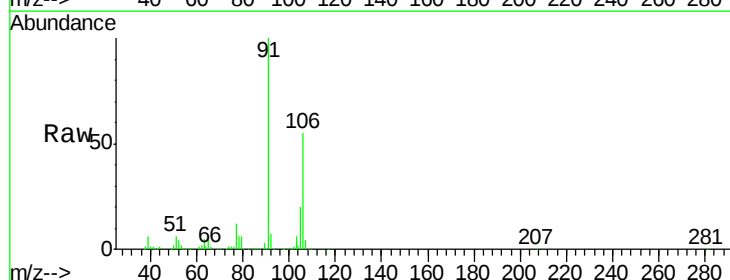
Acq: 18 Aug 2020 8:42

Tgt Ion: 91 Resp: 488811

Ion Ratio Lower Upper

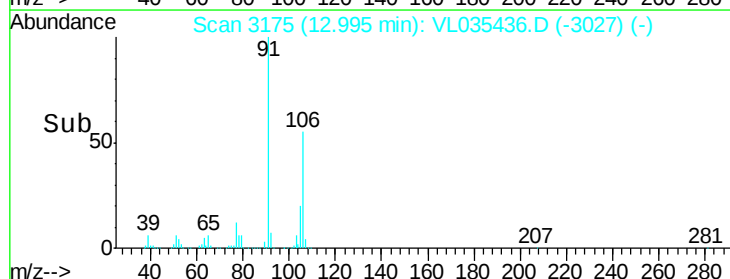
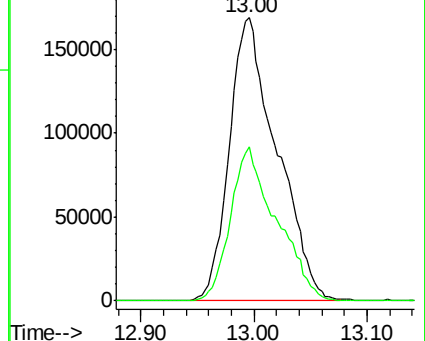
91 100

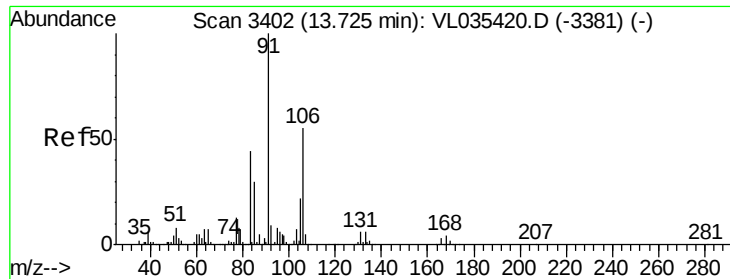
106 53.0 34.0 51.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





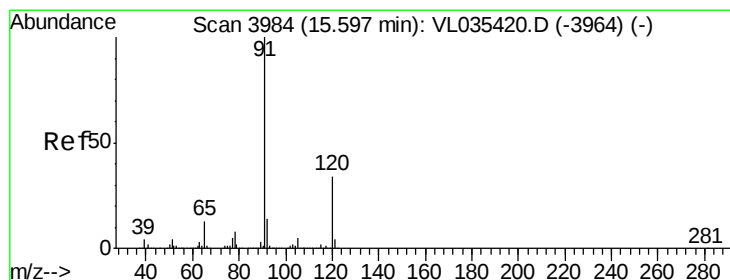
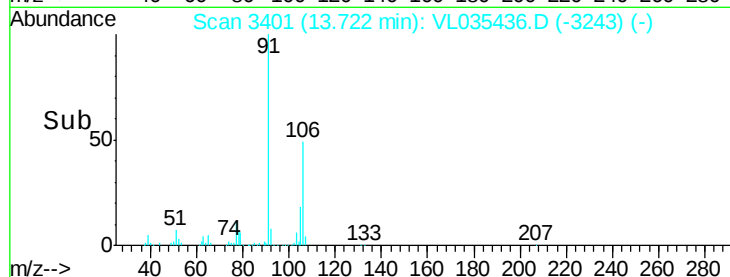
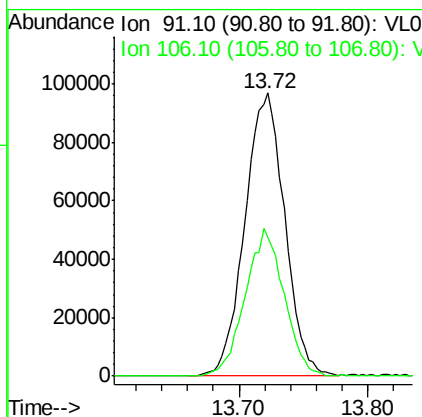
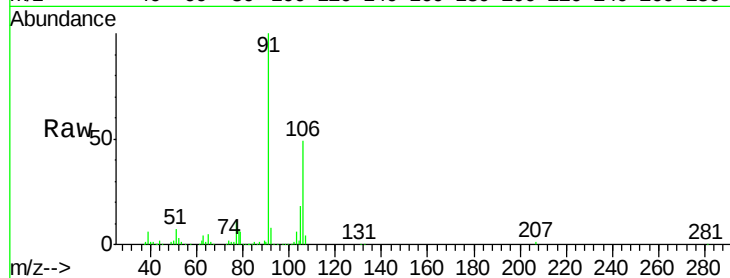
#60
o-Xylene
Concen: 0.404 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Instrument :
MSVOA_L
ClientSampled :
DR-1DLDP

Tot Ion: 91 Resp: 209037
Ion Ratio Lower Upper
91 100
106 50.7 21.8 65.3

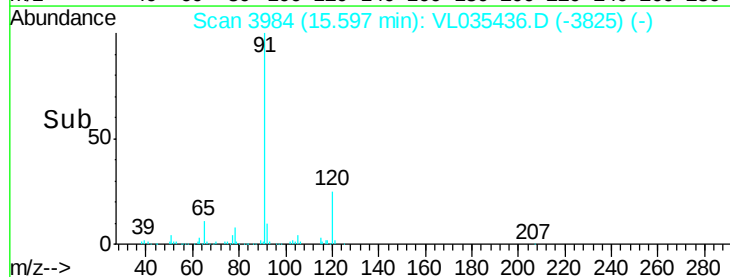
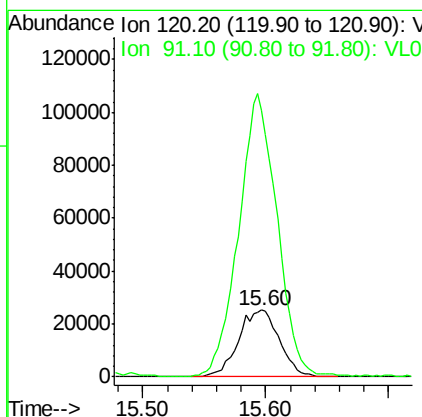
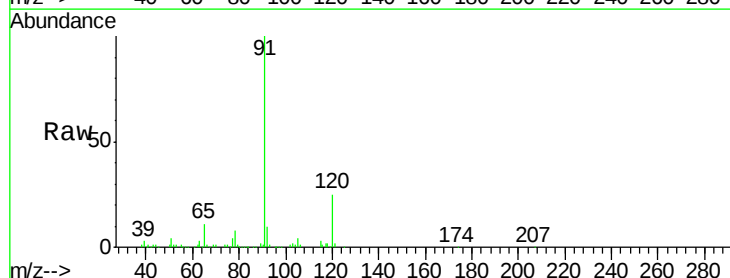
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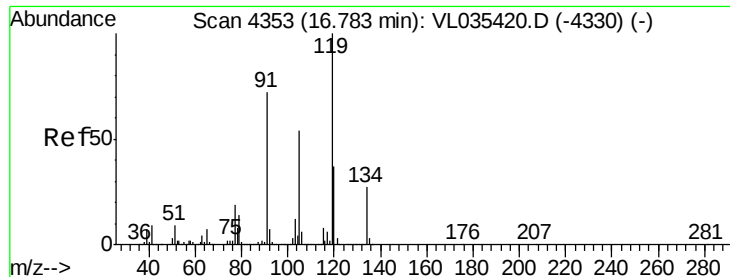
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#64
n-propylbenzene
Concen: 0.223 ppbv m
RT: 15.60 min Scan# 3984
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 120 Resp: 58311
Ion Ratio Lower Upper
120 100
91 396.5 385.5 578.3





#65

tert-Butylbenzene

Concen: 0.170 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.02 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

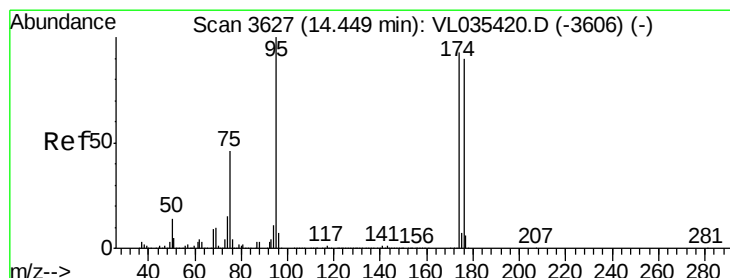
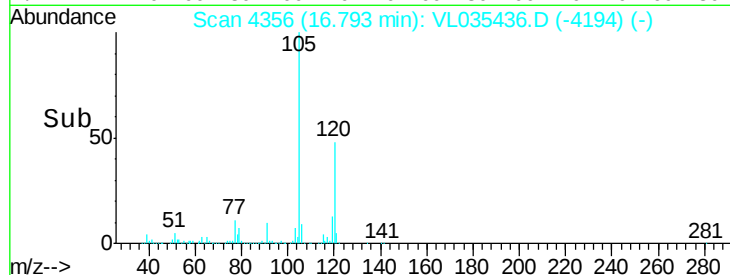
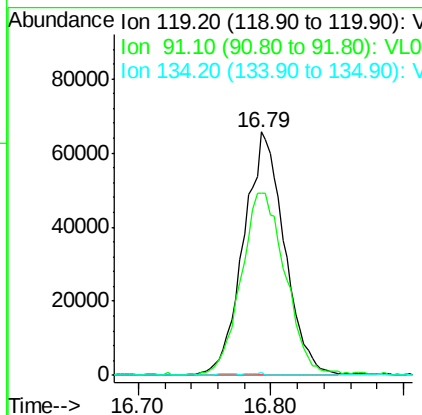
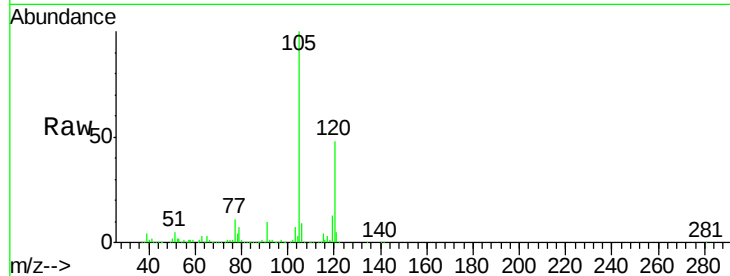
ClientSampleId :

DR-1DLDP

Tot Ion:	119	Resp:	140052
Ion Ratio	Lower	Upper	
119	100		
91	82.9	72.0	108.0
134	0.9	15.7	23.5#

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.390 ppbv

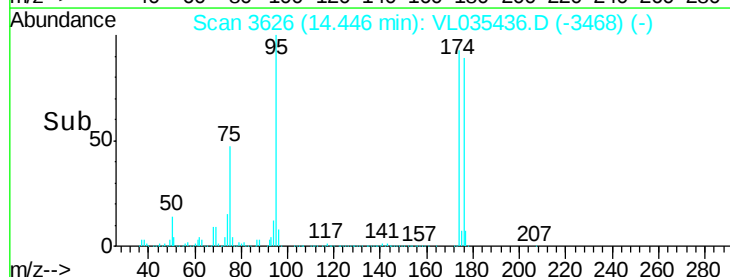
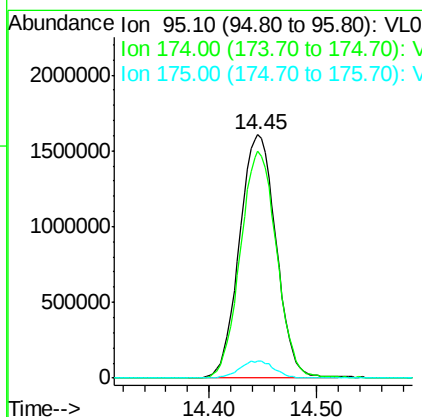
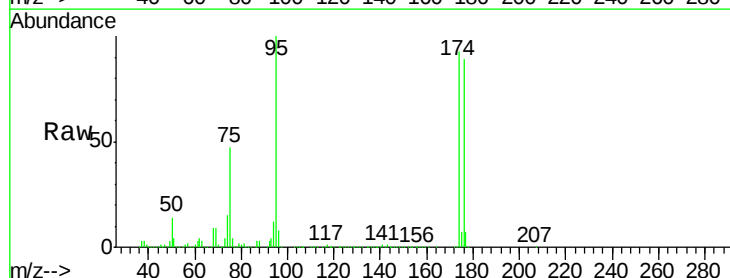
RT: 14.45 min Scan# 3626

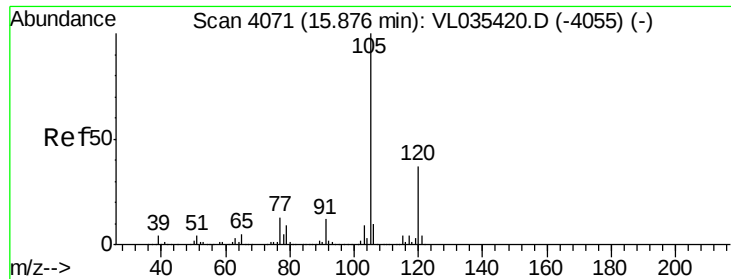
Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Tgt Ion:	95	Resp:	3791025
Ion Ratio	Lower	Upper	
95	100		
174	93.0	44.0	66.0#
175	6.8	3.2	4.8#





#72

4-Ethyltoluene

Concen: 0.509 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

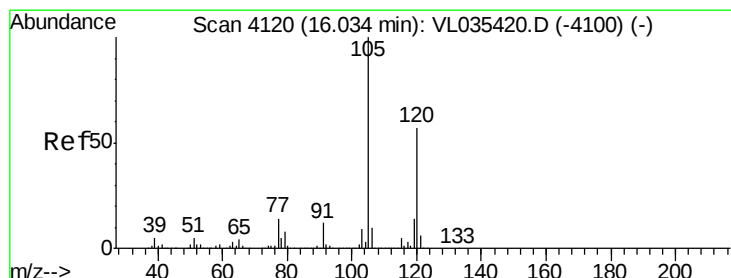
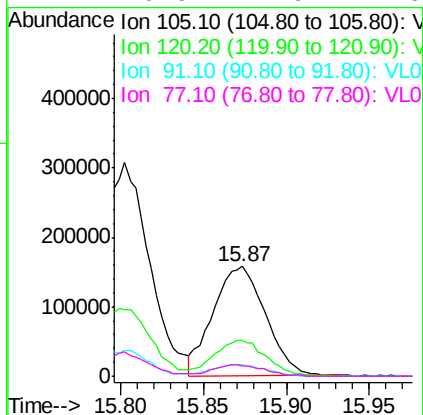
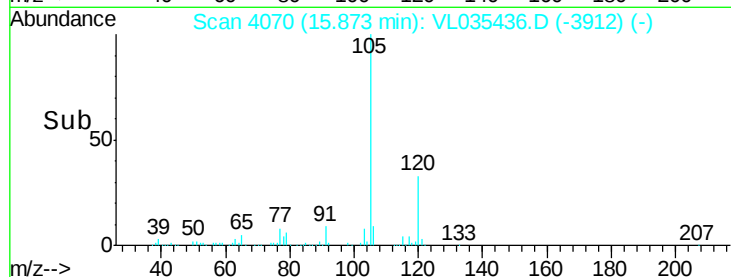
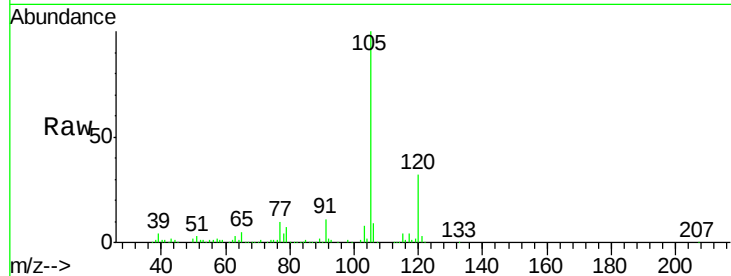
ClientSampleId :

DR-1DLDP

Tot Ion	Ratio	Resp	Lower	Upper
105	100	345533		
120	34.3	22.7	34.1#	
91	11.5	10.8	16.2	
77	10.9	11.9	17.9#	

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#73

1,3,5-Trimethylbenzene

Concen: 0.429 ppbv

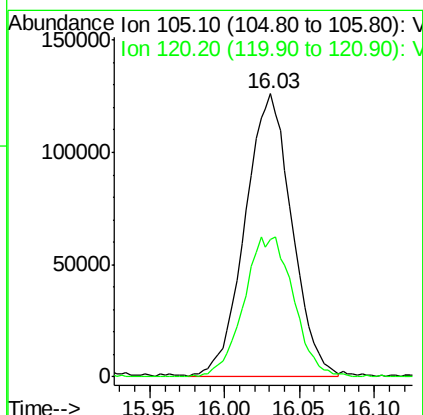
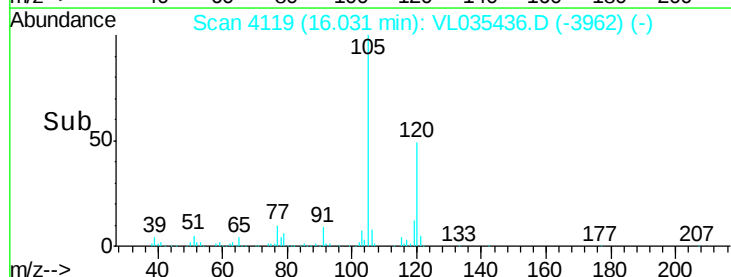
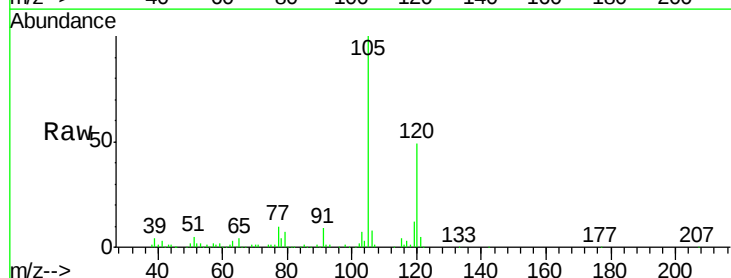
RT: 16.03 min Scan# 4119

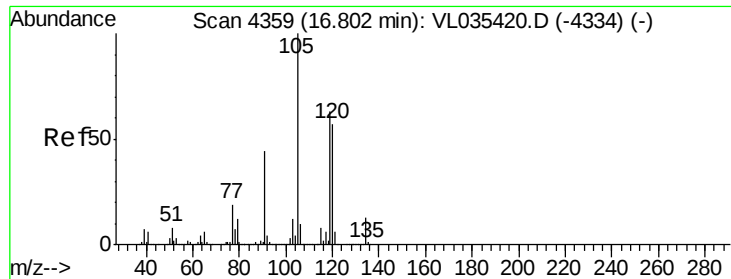
Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	270762		
120	48.5	35.6	53.4	





#74
 1,2,4-Trimethylbenzene
 Concen: 1.626 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. 0.00 min
 Lab File: VL035436.D
 Acq: 18 Aug 2020 8:42

Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DLDP

Tot Ion:	105	Resp:	1115201
Ion Ratio	Lower	Upper	
105	100		
120	47.8	37.8	56.8
91	9.9	40.0	60.0#
77	11.3	18.8	28.2#

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