

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035435.D
 Acq On : 18 Aug 2020 3:10
 Operator : SY/AP
 Sample : L3699-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DL

Manual Integrations
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Quant Time: Aug 25 13:51:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 1
 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	1165143	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5365041	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5304460	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3854023	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	157164	2.676	ppbv #	64
10) Heptane	8.14	43	38353m	0.249	ppbv	
13) Ethanol	3.62	45	3701723	172.063	ppbv	97
15) Acetone	3.86	43	305818m	2.280	ppbv	
17) tert-Butyl alcohol	4.32	59	66565m	0.384	ppbv	
26) Hexane	5.70	57	47327m	0.321	ppbv	
34) 2-Butanone	5.26	43	27287	0.152	ppbv #	64
36) Benzene	6.90	78	41574	0.106	ppbv #	91
44) 2,2,4-Trimethylpentane	7.89	57	63568	0.124	ppbv #	88
52) Tetrachloroethene	11.25	164	38079	0.159	ppbv #	82
53) Toluene	9.83	91	316289	0.624	ppbv	98
58) Ethyl Benzene	12.74	91	174314	0.272	ppbv	94
59) m/p-Xylene	12.99	91	516855	0.955	ppbv #	83
60) o-Xylene	13.72	91	228630	0.435	ppbv	90
64) n-propylbenzene	15.59	120	62738m	0.236	ppbv	
65) tert-Butylbenzene	16.79	119	141878	0.169	ppbv #	88
72) 4-Ethyltoluene	15.87	105	370934	0.537	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.03	105	292735	0.456	ppbv	87
74) 1,2,4-Trimethylbenzene	16.79	105	1173647	1.681	ppbv #	70

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

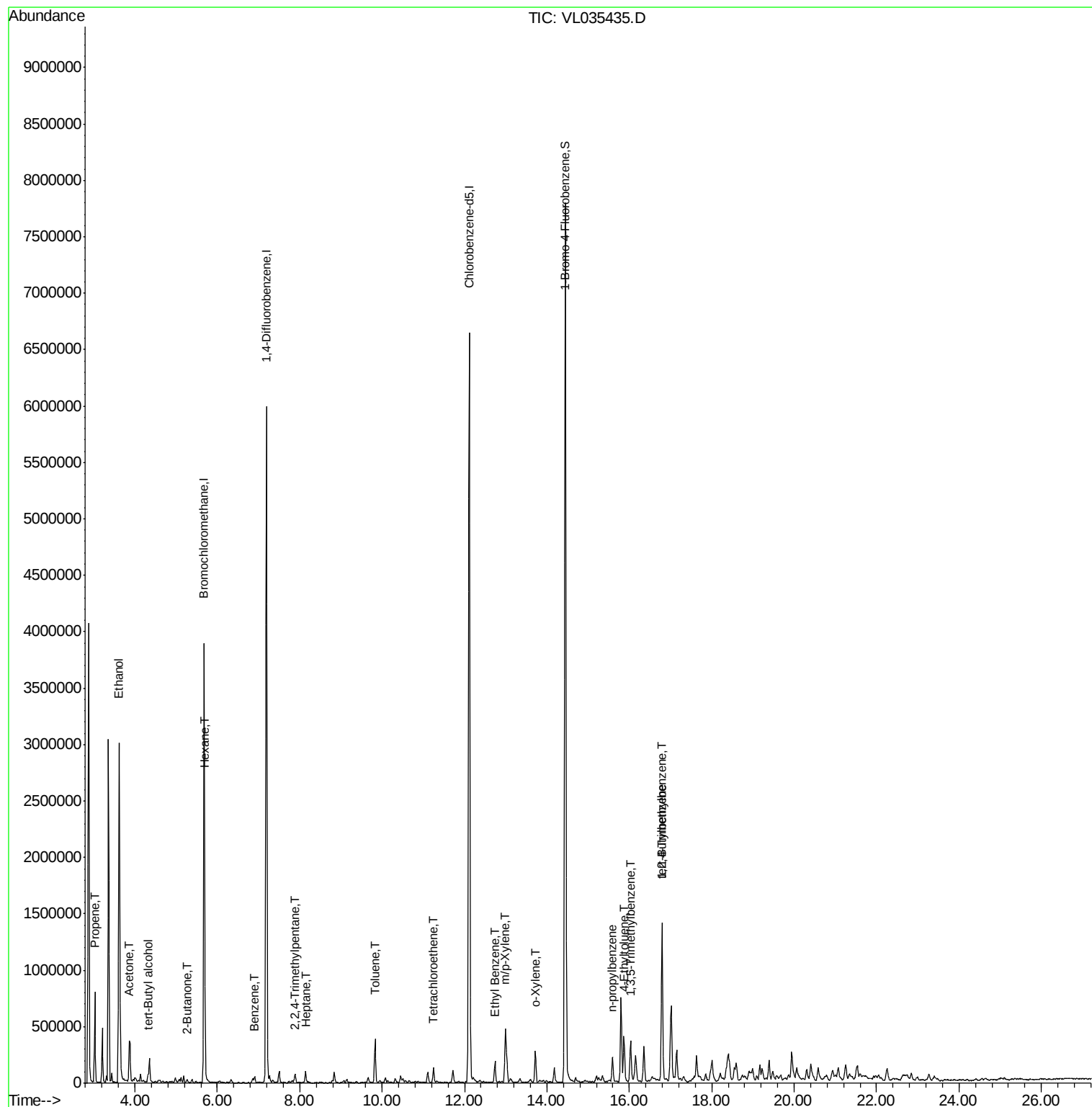
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081720\
Data File : VL035435.D
Acq On : 18 Aug 2020 3:10
Operator : SY/AP
Sample : L3699-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

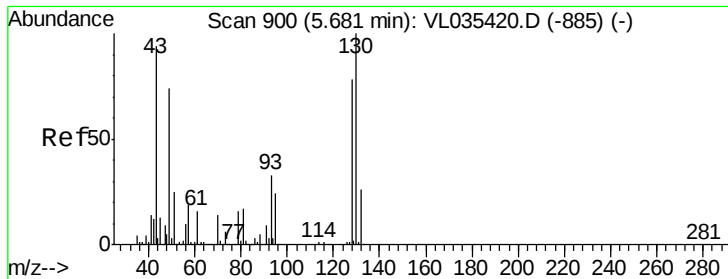
Instrument :
MSVOA_L
ClientSampleId :
DR-1DL

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Quant Time: Aug 25 13:51:39 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: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

ClientSampled :

DR-1DL

Tot Ion: 49 Resp: 1165143

Ion Ratio Lower Upper

49 100

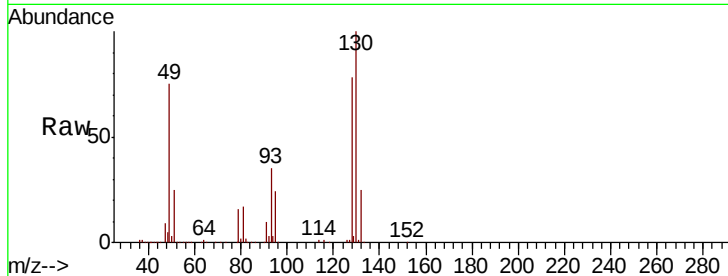
128 104.7 20.9 62.7#

130 134.7 26.7 80.1#

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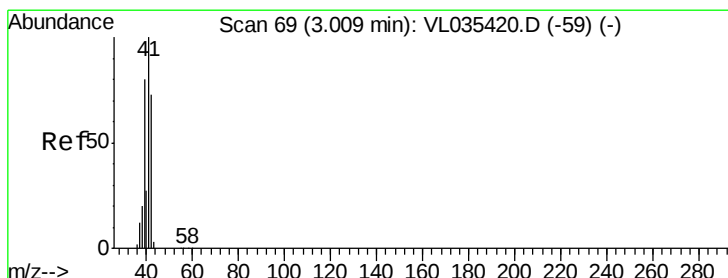
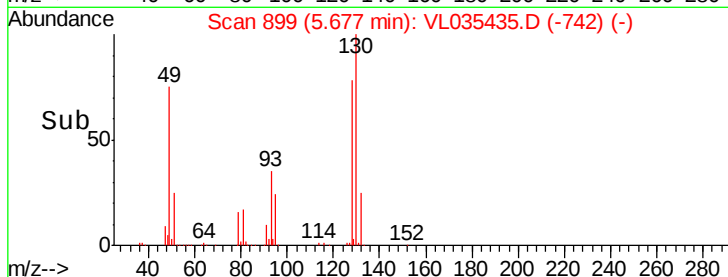
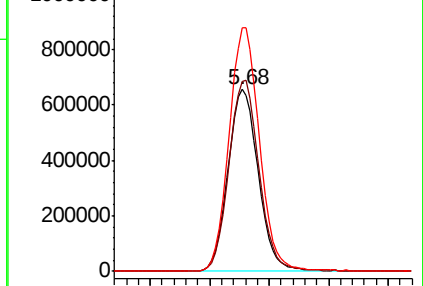
8/26/2020 8:25:07 AM



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



#9

Propene

Concen: 2.676 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL035435.D

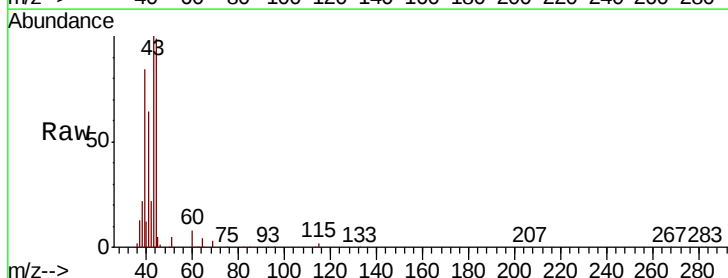
Acq: 18 Aug 2020 3:10

Tgt Ion: 41 Resp: 157164

Ion Ratio Lower Upper

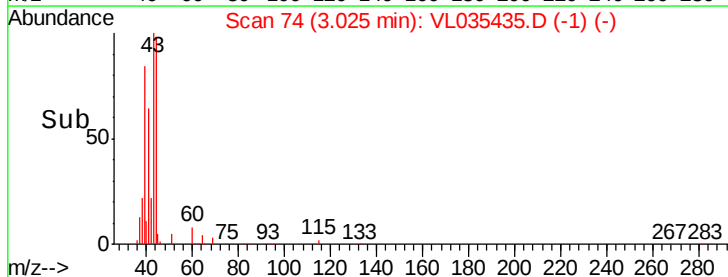
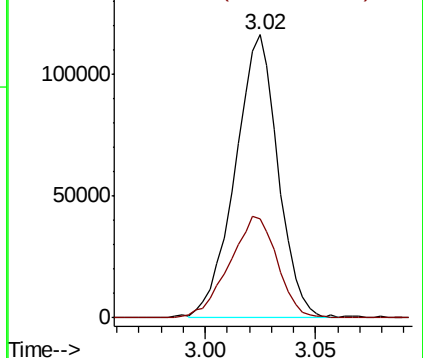
41 100

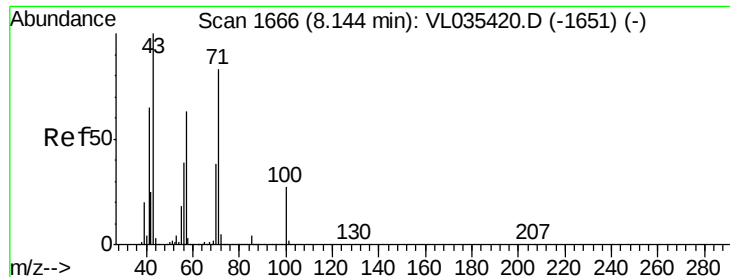
42 40.2 55.5 83.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





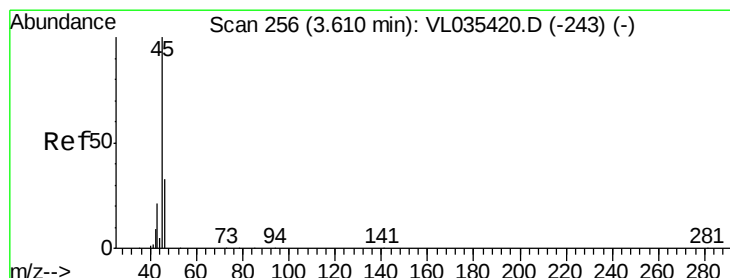
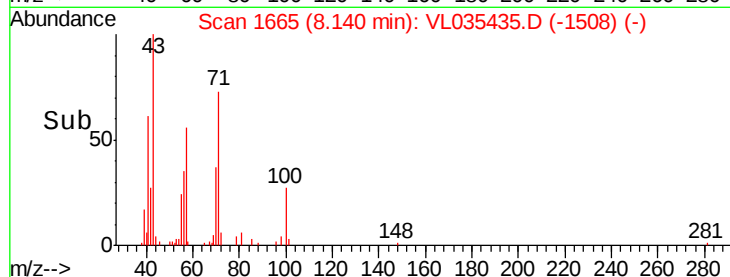
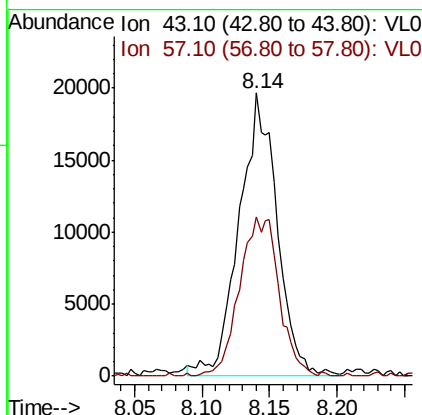
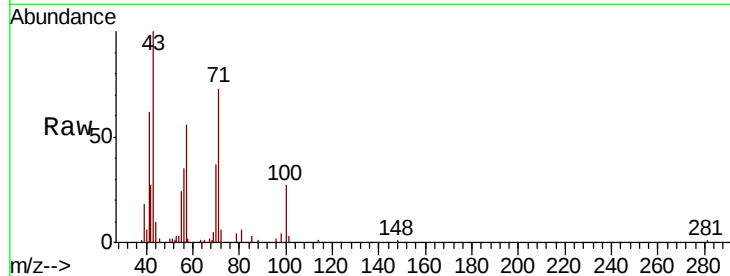
#10
Heptane
Concen: 0.249 ppbv m
RT: 8.14 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VL035435.D
Acq: 18 Aug 2020 3:10

Instrument :
MSVOA_L
ClientSampleId :
DR-1DL

Tot Ion: 43 Resp: 38353
Ion Ratio Lower Upper
43 100
57 58.7 39.8 59.6

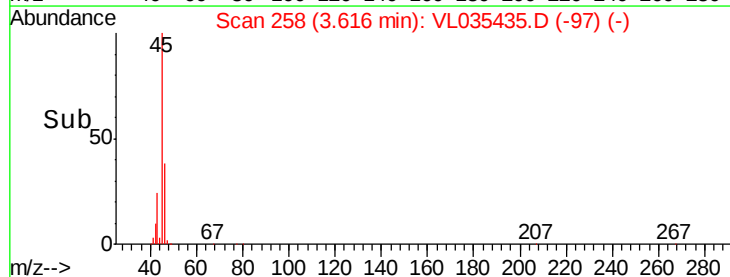
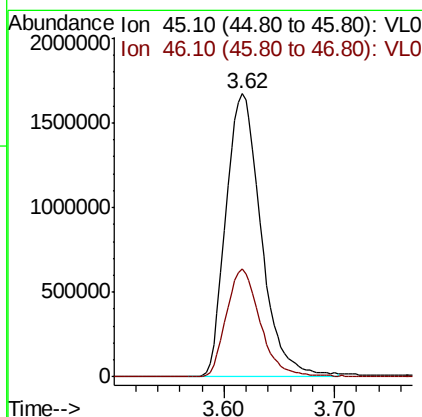
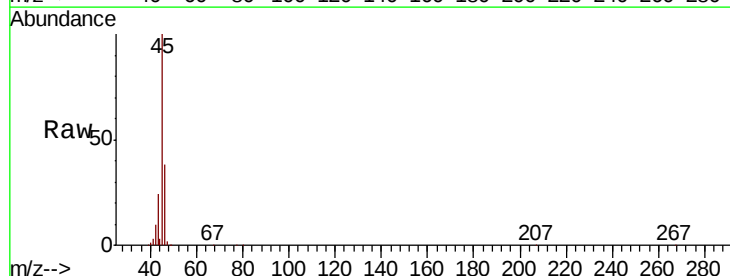
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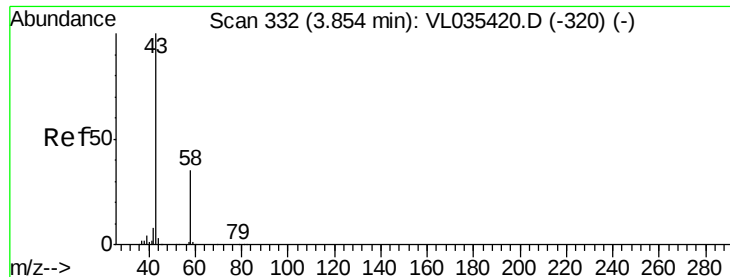
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#13
Ethanol
Concen: 172.063 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.02 min
Lab File: VL035435.D
Acq: 18 Aug 2020 3:10

Tgt Ion: 45 Resp: 3701723
Ion Ratio Lower Upper
45 100
46 37.1 14.2 56.6





#15

Acetone

Concen: 2.280 ppbv m

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

ClientSampleId :

DR-1DL

Tot Ion: 43 Resp: 305818

Ion Ratio Lower Upper

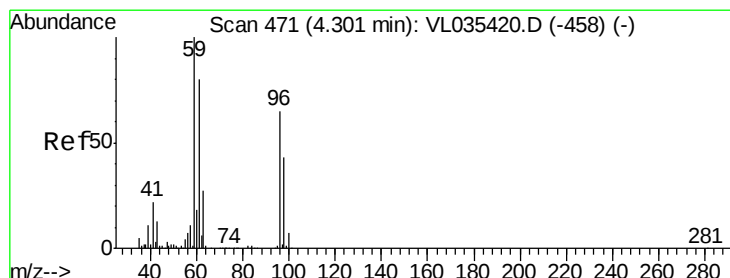
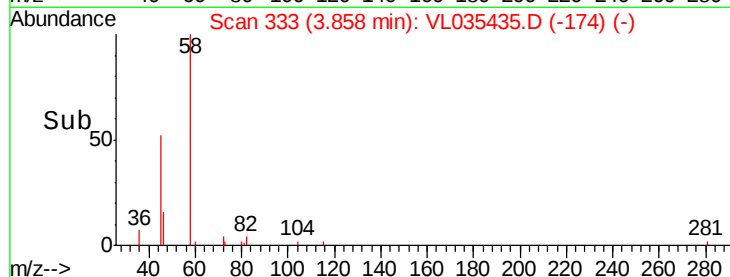
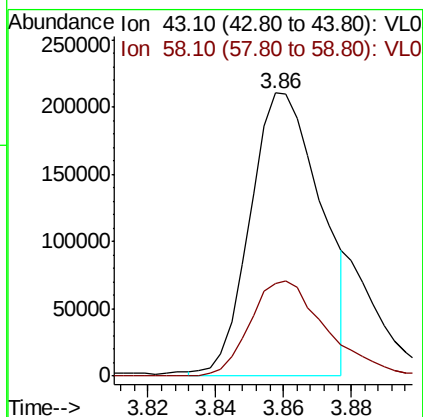
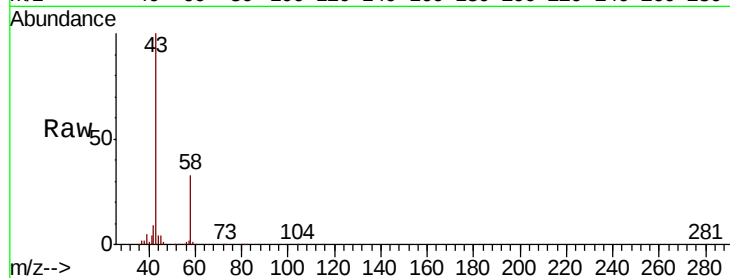
43 100

58 36.8 21.0 31.6#

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#17

tert-Butyl alcohol

Concen: 0.384 ppbv m

RT: 4.32 min Scan# 477

Delta R.T. 0.03 min

Lab File: VL035435.D

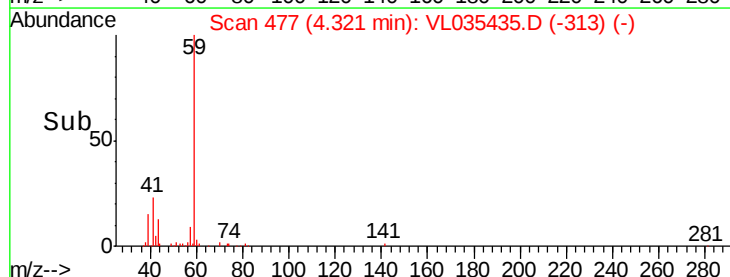
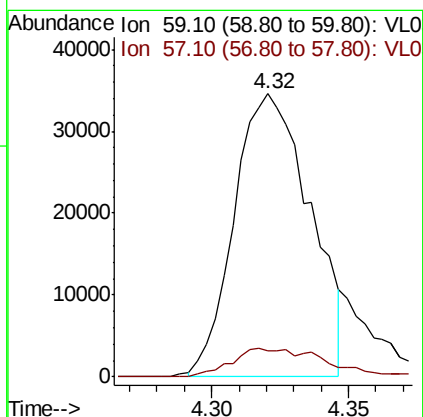
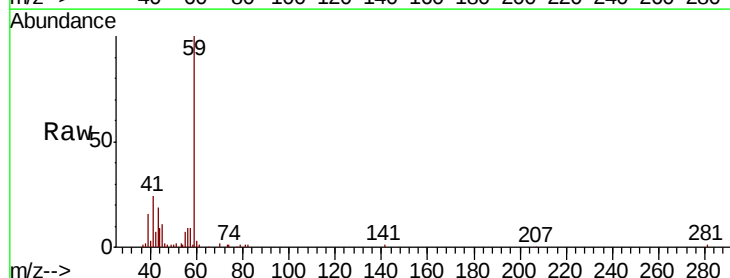
Acq: 18 Aug 2020 3:10

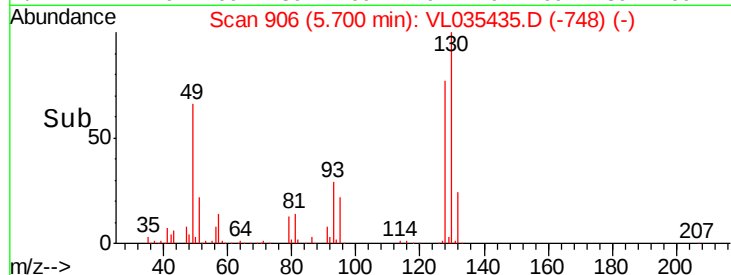
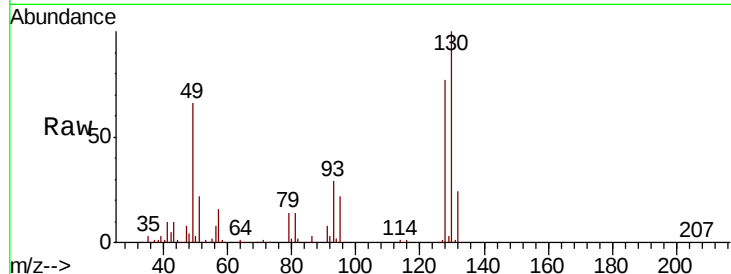
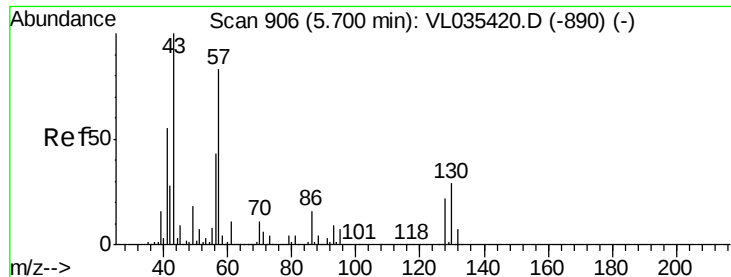
Tgt Ion: 59 Resp: 66565

Ion Ratio Lower Upper

59 100

57 12.8 8.9 13.3





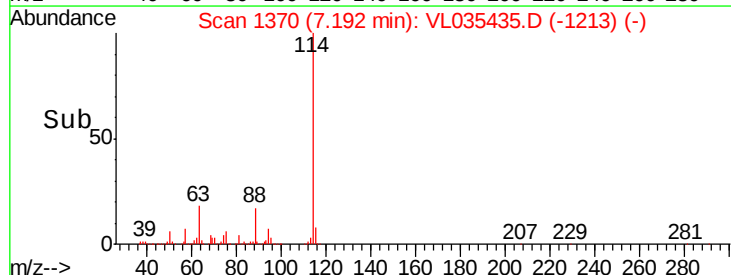
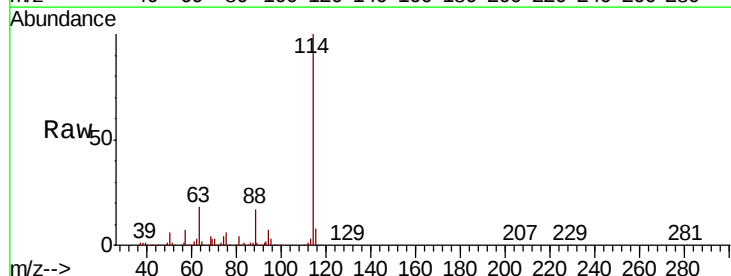
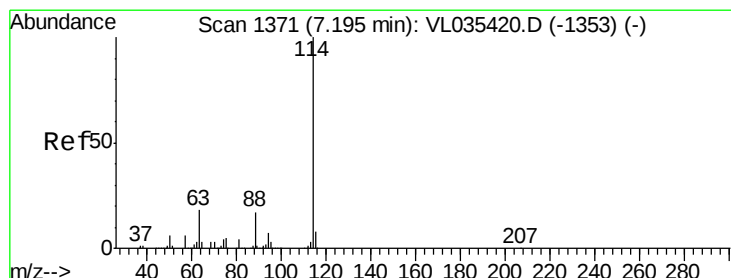
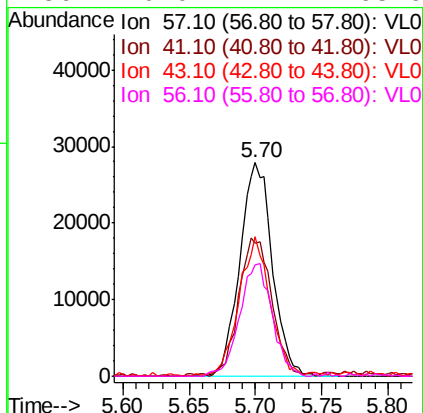
#26
Hexane
Concen: 0.321 ppbv m
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL035435.D
Acq: 18 Aug 2020 3:10

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.5	113.3#
43	0.0	181.7	272.5#
56	0.0	42.4	63.6#

Instrument :
MSVOA_L
ClientSampleId :
DR-1DL

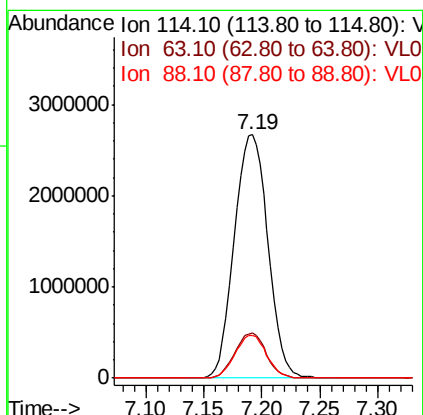
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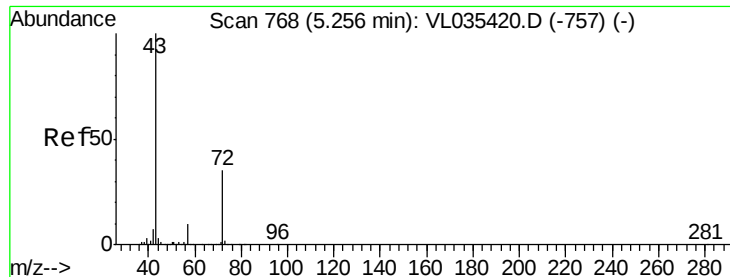
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.00 min
Lab File: VL035435.D
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Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.3	23.1	34.7#
88	16.5	15.9	23.9





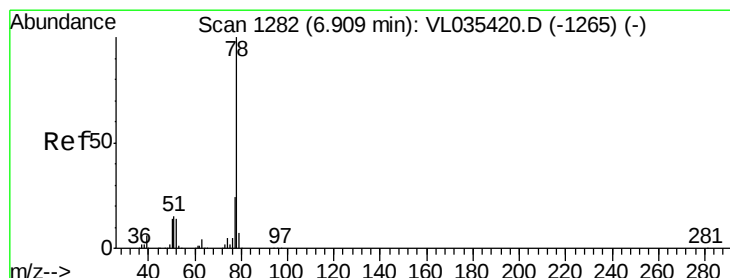
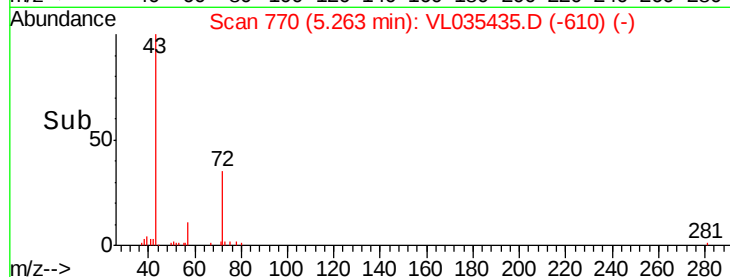
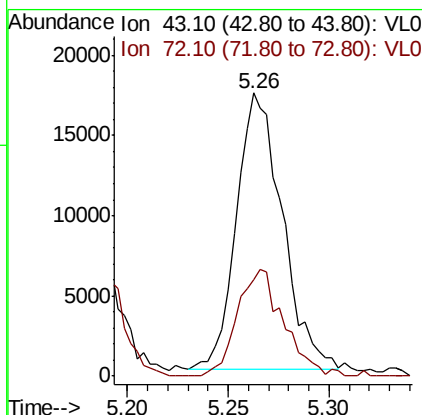
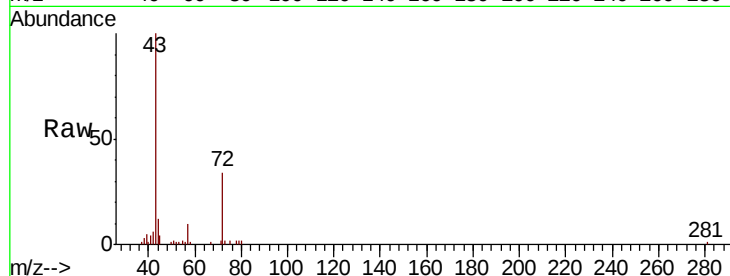
#34
 2-Butanone
 Concen: 0.152 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL035435.D
 Acq: 18 Aug 2020 3:10

Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DL

Tot Ion: 43 Resp: 27287
 Ion Ratio Lower Upper
 43 100
 72 39.4 17.6 26.4#

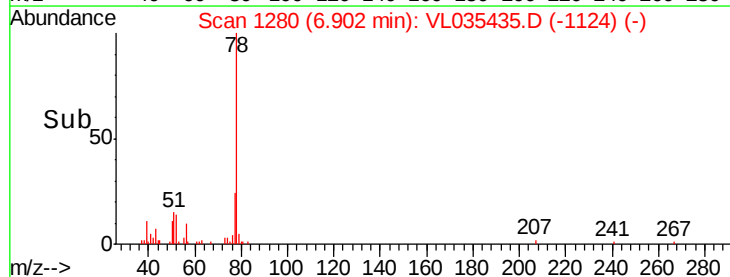
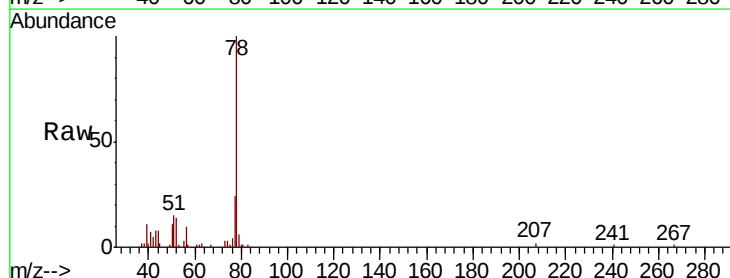
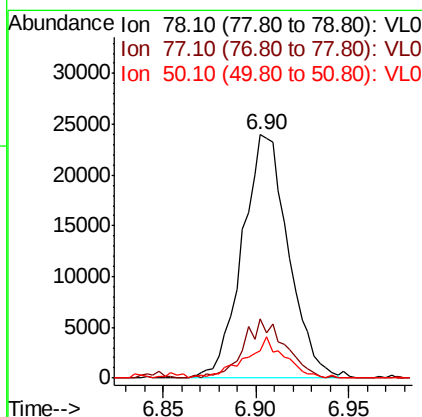
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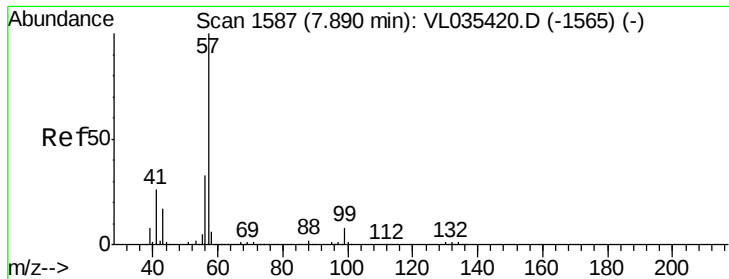
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#36
 Benzene
 Concen: 0.106 ppbv
 RT: 6.90 min Scan# 1280
 Delta R.T. 0.00 min
 Lab File: VL035435.D
 Acq: 18 Aug 2020 3:10

Tgt Ion: 78 Resp: 41574
 Ion Ratio Lower Upper
 78 100
 77 24.4 19.6 29.4
 50 11.0 16.3 24.5#





#44

2,2,4-Trimethylpentane

Concen: 0.124 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.01 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

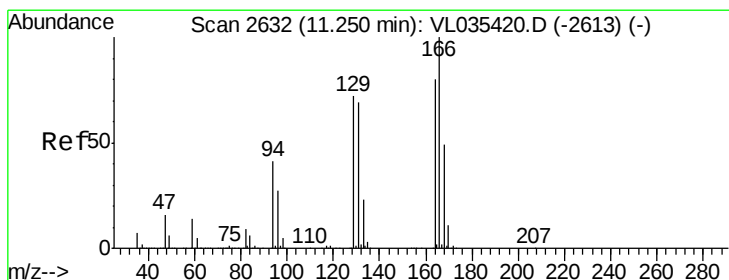
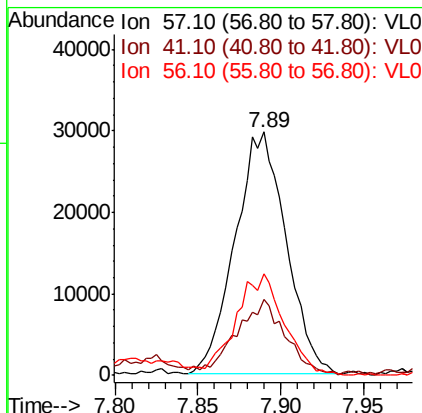
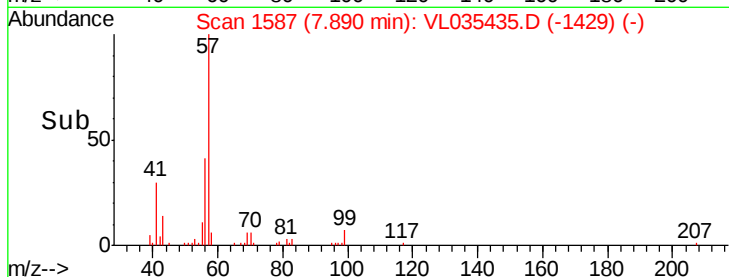
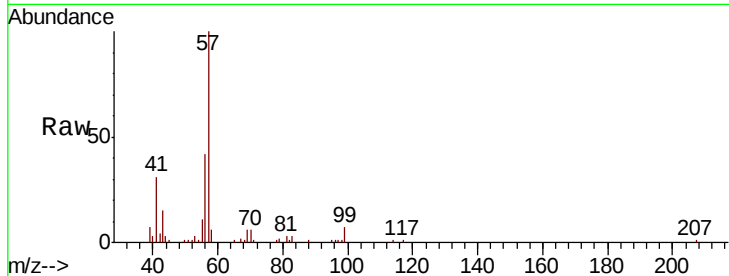
ClientSampleId :

DR-1DL

Tot Ion:	57	Resp:	63568
Ion Ratio	Lower	Upper	
57	100		
41	28.7	27.2	40.8
56	40.0	25.4	38.0#

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#52

Tetrachloroethene

Concen: 0.159 ppbv

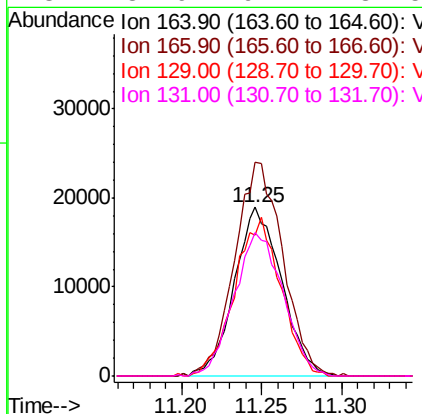
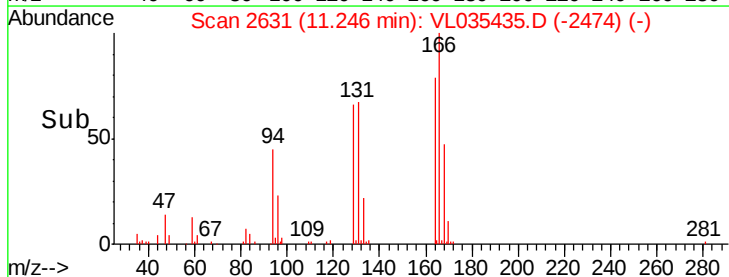
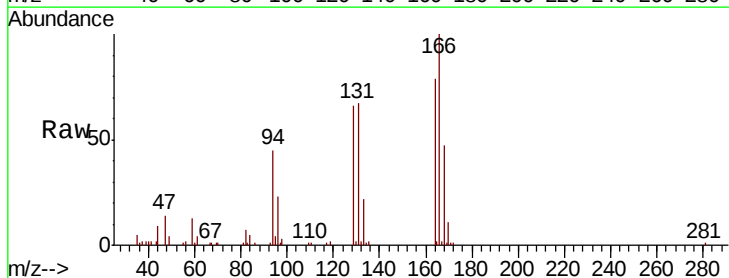
RT: 11.25 min Scan# 2631

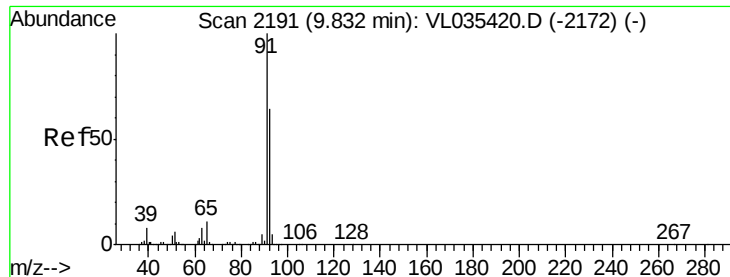
Delta R.T. 0.00 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Tgt Ion:	164	Resp:	38079
Ion Ratio	Lower	Upper	
164	100		
166	126.5	103.4	155.0
129	83.1	90.2	135.4#
131	84.9	91.7	137.5#





#53

Toluene

Concen: 0.624 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

ClientSampleId :

DR-1DL

Tot Ion: 91 Resp: 316289

Ion Ratio Lower Upper

91 100

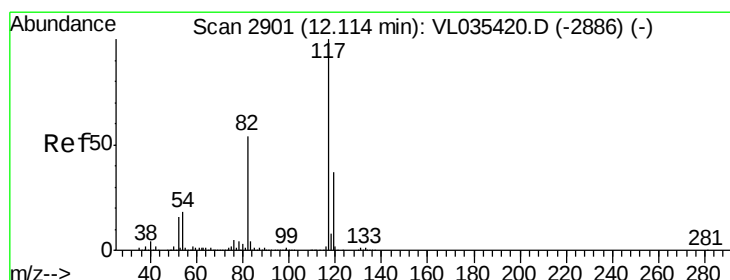
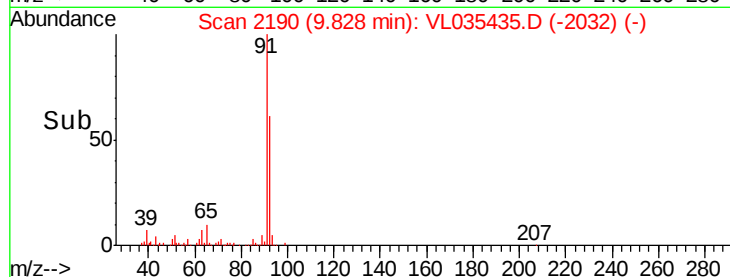
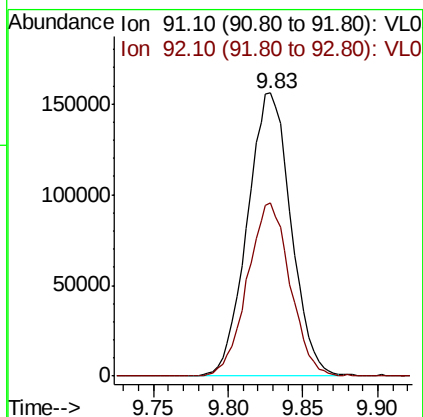
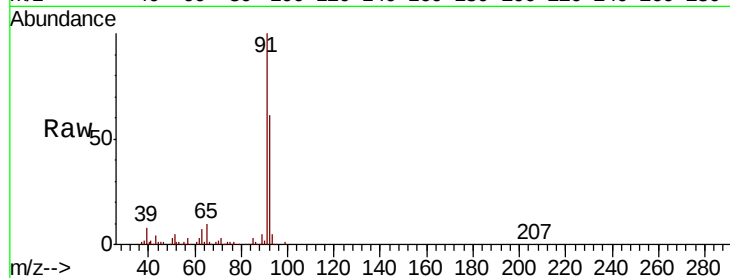
92 60.2 49.1 73.7

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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: VL035435.D

Acq: 18 Aug 2020 3:10

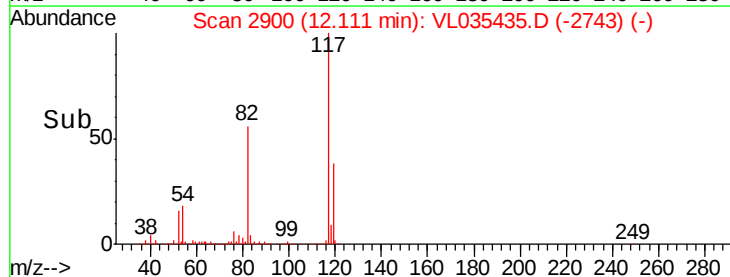
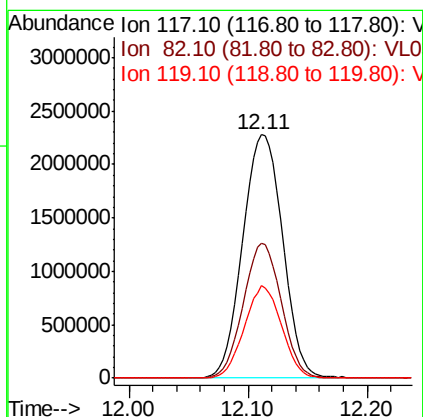
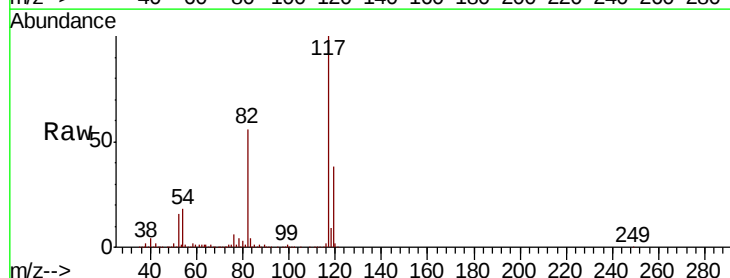
Tgt Ion: 117 Resp: 5304460

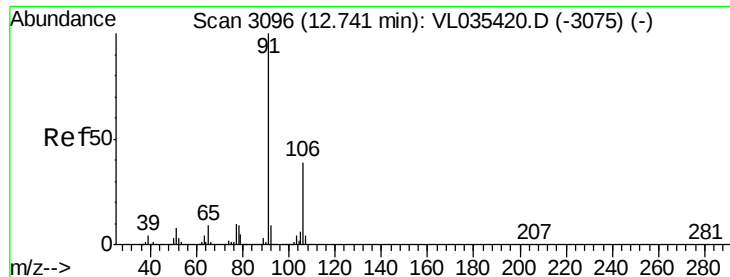
Ion Ratio Lower Upper

117 100

82 52.9 57.4 86.0#

119 35.5 28.4 42.6





#58

Ethyl Benzene

Concen: 0.272 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.01 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

ClientSampleId :

DR-1DL

Tot Ion: 91 Resp: 174314

Ion Ratio Lower Upper

91 100

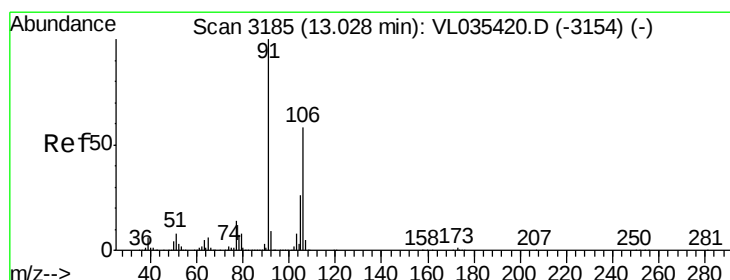
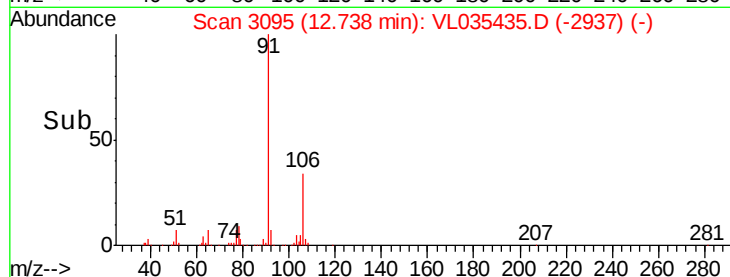
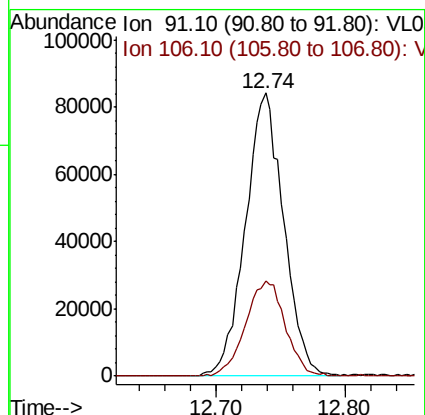
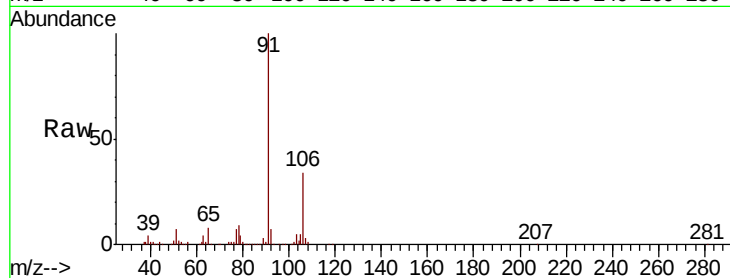
106 33.5 24.1 36.1

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#59

m/p-Xylene

Concen: 0.955 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.03 min

Lab File: VL035435.D

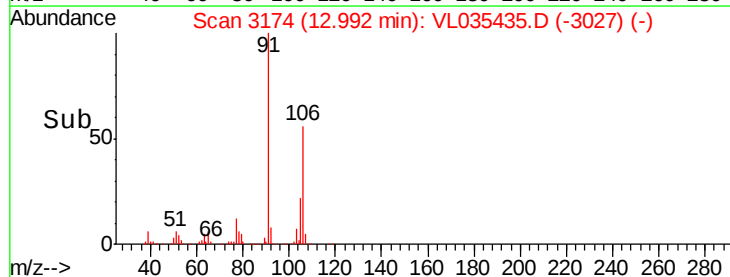
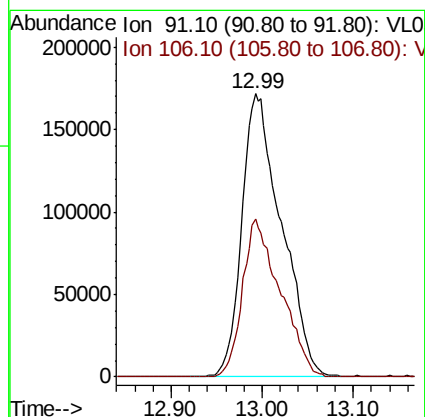
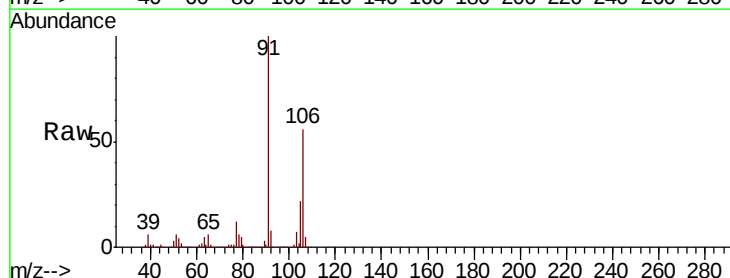
Acq: 18 Aug 2020 3:10

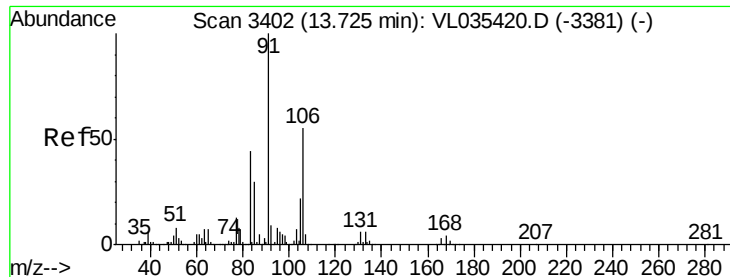
Tgt Ion: 91 Resp: 516855

Ion Ratio Lower Upper

91 100

106 53.3 34.0 51.0#





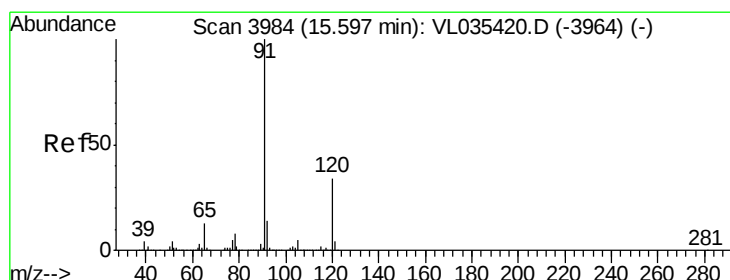
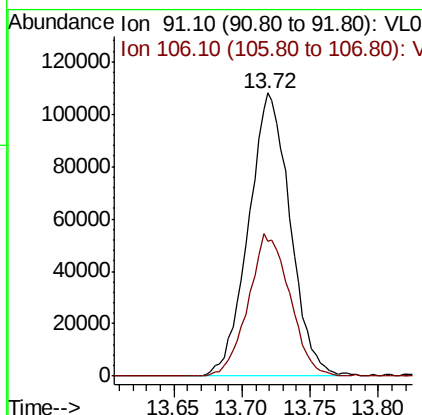
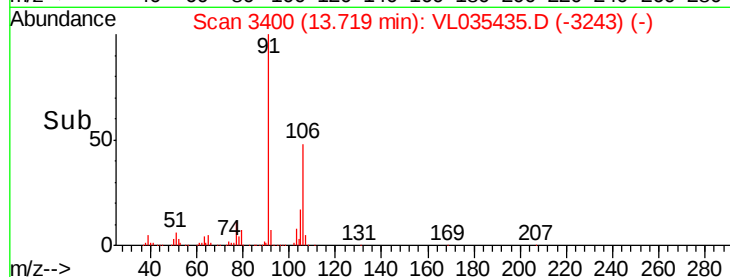
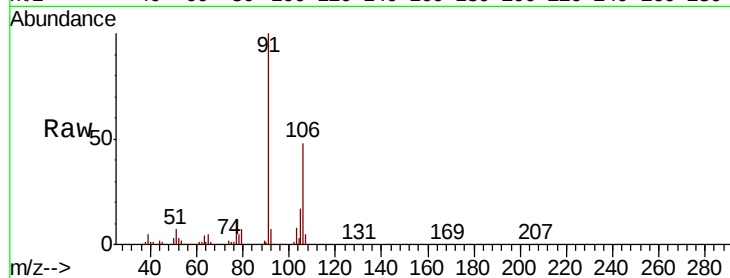
#60
o-Xylene
Concen: 0.435 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL035435.D
Acq: 18 Aug 2020 3:10

Instrument :
MSVOA_L
ClientSampleId :
DR-1DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		228630		
106	50.1	21.8	65.3		

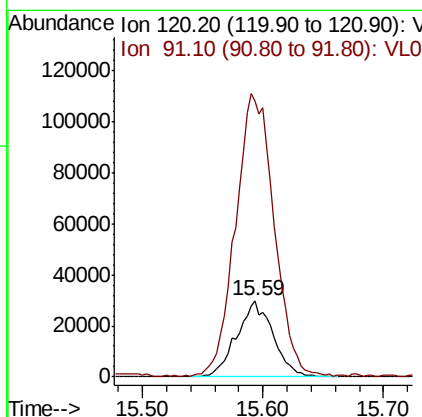
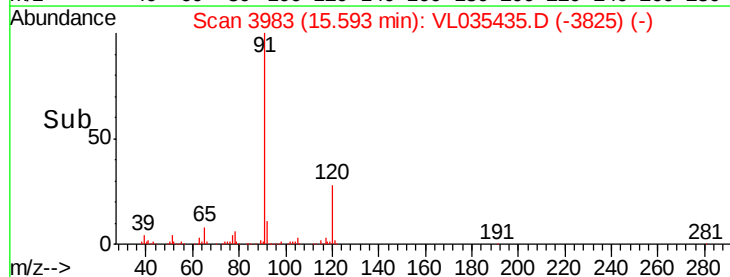
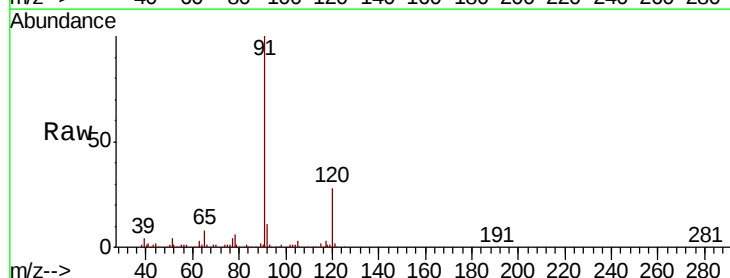
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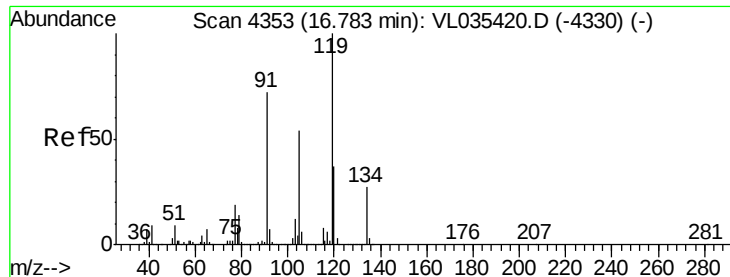
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#64
n-propylbenzene
Concen: 0.236 ppbv m
RT: 15.59 min Scan# 3983
Delta R.T. 0.01 min
Lab File: VL035435.D
Acq: 18 Aug 2020 3:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
120	100		62738		
91	394.8	385.5	578.3		





#65

tert-Butylbenzene

Concen: 0.169 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.02 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

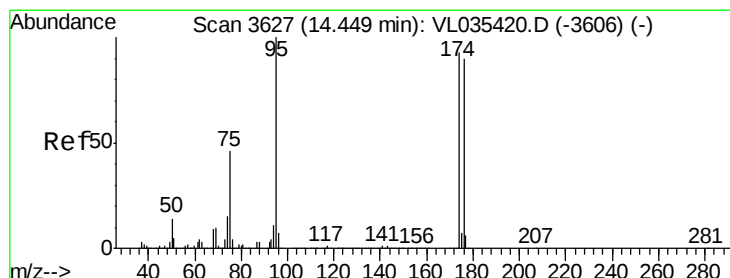
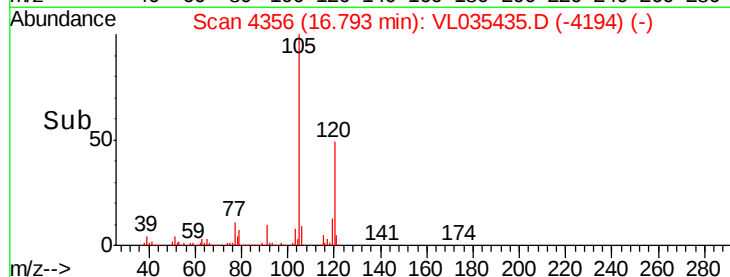
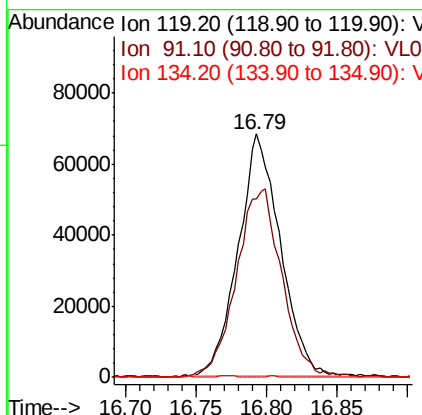
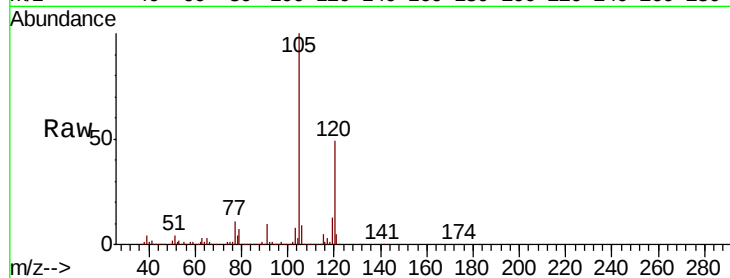
ClientSampleId :

DR-1DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.6	72.0	108.0
134	0.8	15.7	23.5

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.378 ppbv

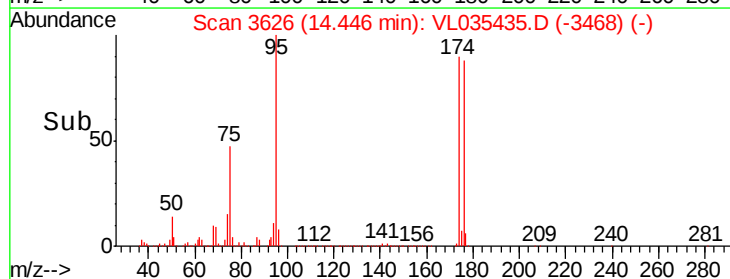
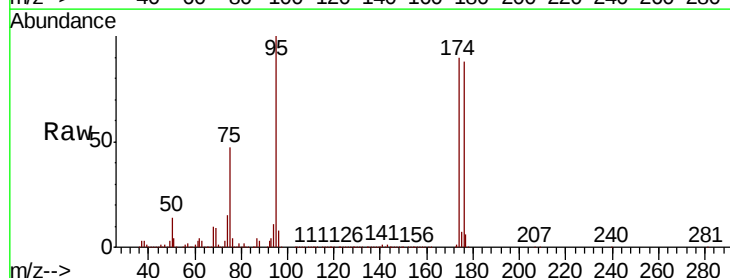
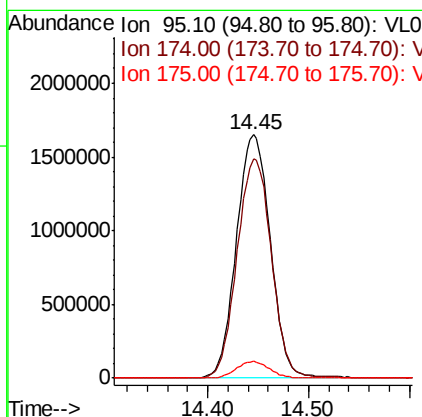
RT: 14.45 min Scan# 3626

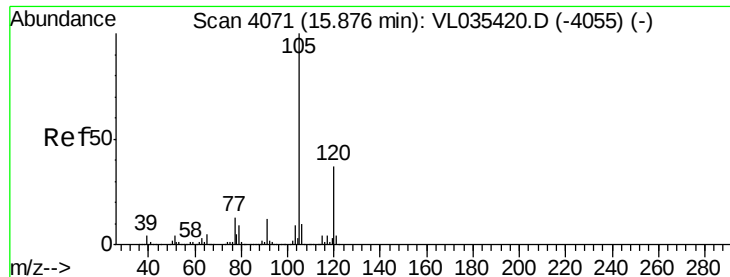
Delta R.T. 0.01 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.7	44.0	66.0
175	6.7	3.2	4.8





#72

4-Ethyltoluene

Concen: 0.537 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Instrument :

MSVOA_L

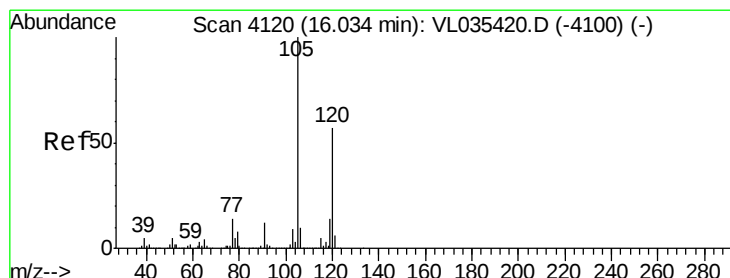
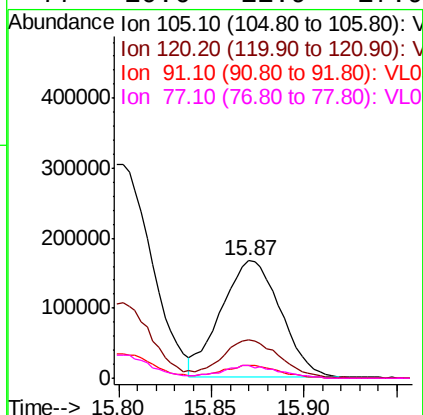
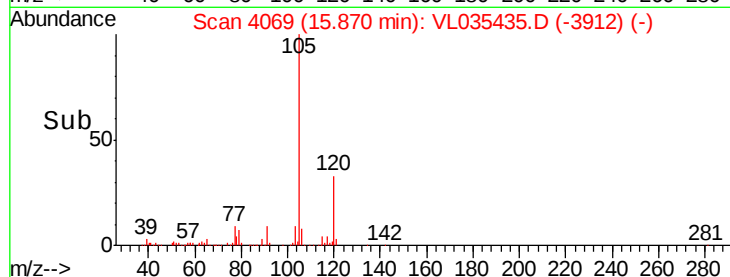
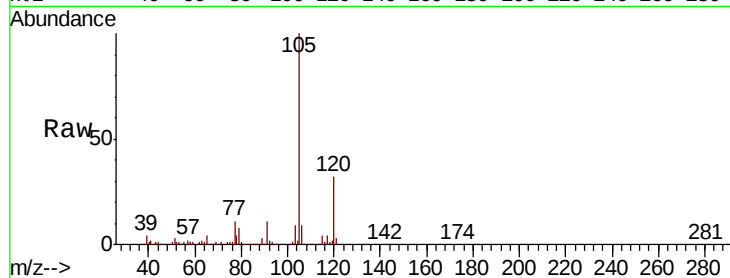
ClientSampled :

DR-1DL

Tot Ion:	105	Resp:	370934
Ion Ratio	Lower	Upper	
105	100		
120	33.1	22.7	34.1
91	11.3	10.8	16.2
77	10.6	11.9	17.9#

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#73

1,3,5-Trimethylbenzene

Concen: 0.456 ppbv

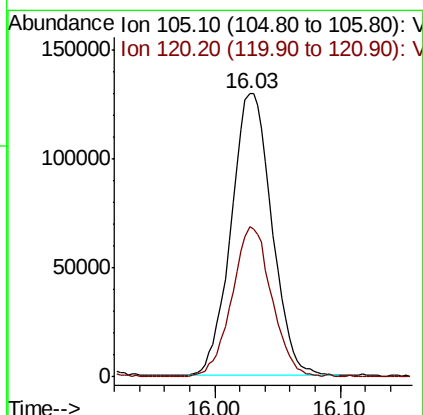
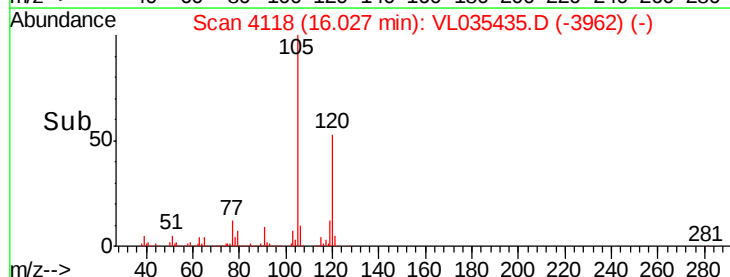
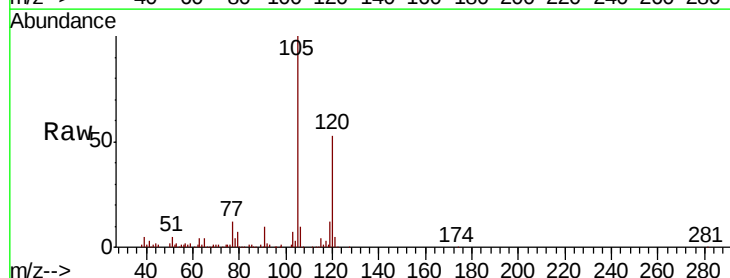
RT: 16.03 min Scan# 4118

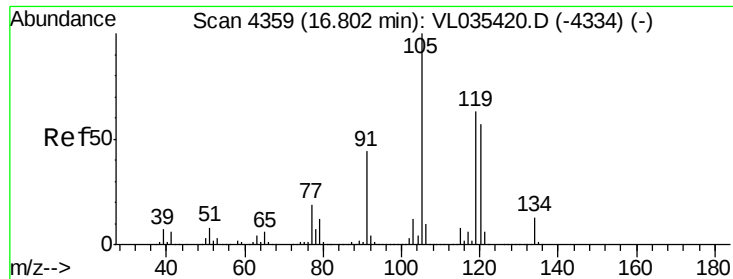
Delta R.T. 0.00 min

Lab File: VL035435.D

Acq: 18 Aug 2020 3:10

Tgt Ion:	105	Resp:	292735
Ion Ratio	Lower	Upper	
105	100		
120	53.1	35.6	53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 1.681 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. 0.00 min
 Lab File: VL035435.D
 Acq: 18 Aug 2020 3:10

Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DL

Tot Ion:	105	Resp:	1173647
Ion Ratio	Lower	Upper	
105	100		
120	49.1	37.8	56.8
91	9.7	40.0	60.0#
77	11.1	18.8	28.2#

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