

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035767.D
 Acq On : 12 Oct 2020 18:36
 Operator : SY/AP
 Sample : L4347-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4DL

Manual Integrations
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 10/14/2020 2:11:45 PM

Quant Time: Oct 13 23:13:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1270117	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	5037615	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4968596	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	3787287	10.17	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	1490478	30.042	ppbv	96
10) Heptane	8.12	43	125188	0.905	ppbv	100
13) Ethanol	3.60	45	97954	8.006	ppbv	98
15) Acetone	3.84	43	6039193	44.189	ppbv #	84
17) tert-Butyl alcohol	4.30	59	80524	0.541	ppbv #	1
19) Isopropyl Alcohol	3.97	45	62432	0.840	ppbv #	89
20) Methylene Chloride	4.34	84	198687	1.979	ppbv	97
26) Hexane	5.69	57	425627	3.158	ppbv #	48
27) Carbon Disulfide	4.55	76	601300	2.994	ppbv	99
30) Cyclohexane	7.13	84	74131	0.558	ppbv #	85
34) 2-Butanone	5.24	43	913710	5.484	ppbv	97
36) Benzene	6.89	78	557932	1.700	ppbv #	96
44) 2,2,4-Trimethylpentane	7.87	57	158646	0.337	ppbv #	81
51) 2-Hexanone	10.14	43	354072	1.806	ppbv #	99
53) Toluene	9.81	91	976455	2.523	ppbv	99
58) Ethyl Benzene	12.72	91	167623	0.336	ppbv	96
59) m/p-Xylene	12.98	91	458275	1.052	ppbv	100
60) o-Xylene	13.70	91	163487	0.371	ppbv	100
72) 4-Ethyltoluene	15.86	105	76021m	0.146	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	57008	0.116	ppbv	92
74) 1,2,4-Trimethylbenzene	16.78	105	196089	0.353	ppbv #	71

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

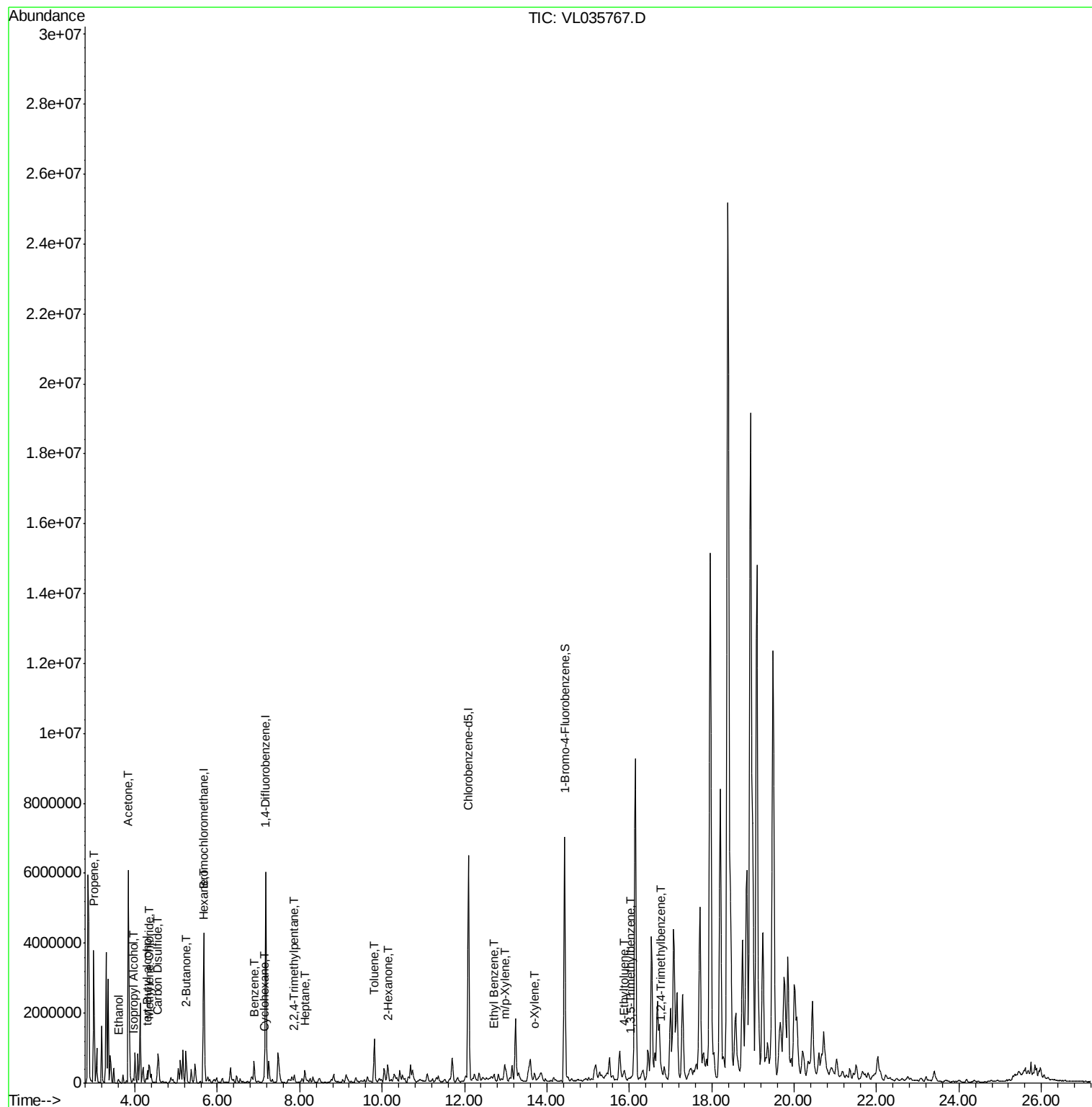
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101220\
Data File : VL035767.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

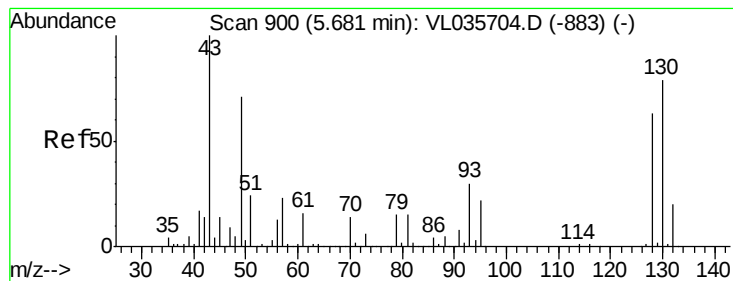
Instrument :
MSVOA_L
ClientSampleId :
4DL

Quant Time: Oct 13 23:13:52 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration

Manual Integrations
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Instrument :

MSVOA_L

ClientSampled :

4DL

Tot Ion: 49 Resp: 1270117

Ion Ratio Lower Upper

49 100

128 85.2 43.1 129.4

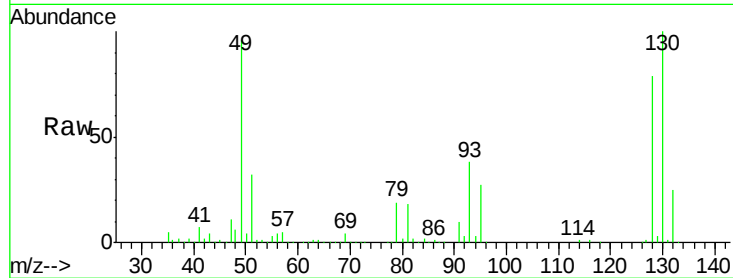
130 108.2 54.9 164.7

Manual Integrations

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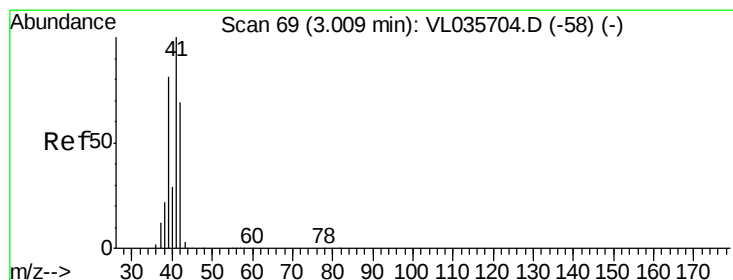
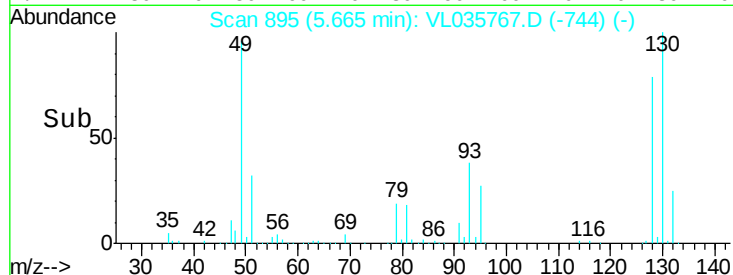
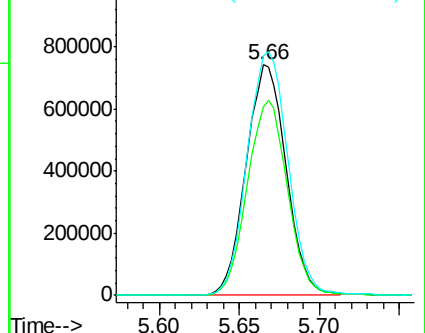
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 30.042 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL035767.D

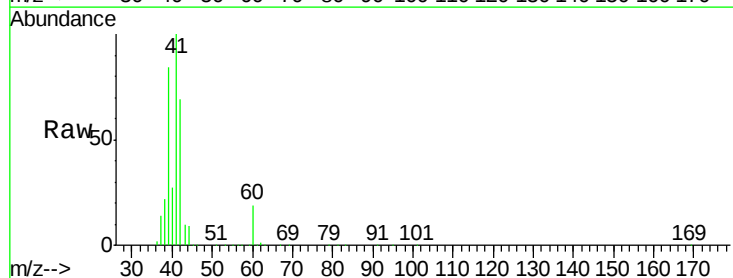
Acq: 12 Oct 2020 18:36

Tgt Ion: 41 Resp: 1490478

Ion Ratio Lower Upper

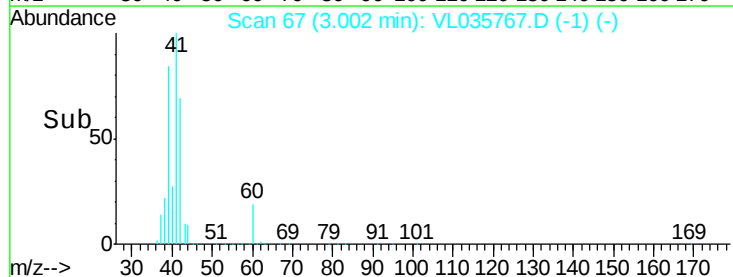
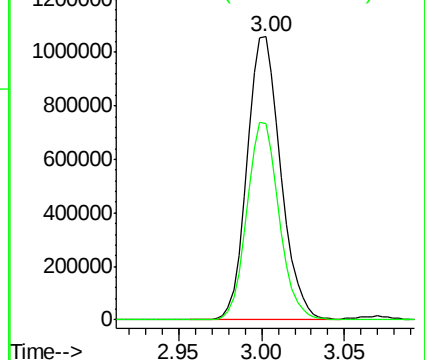
41 100

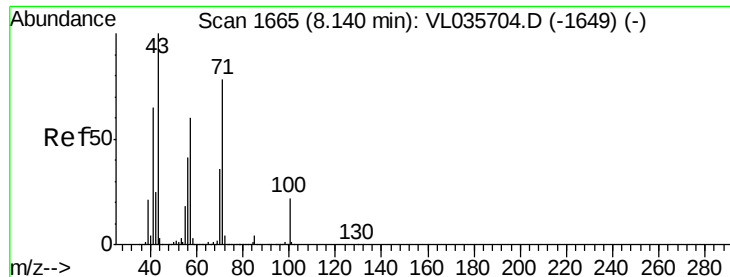
42 66.9 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





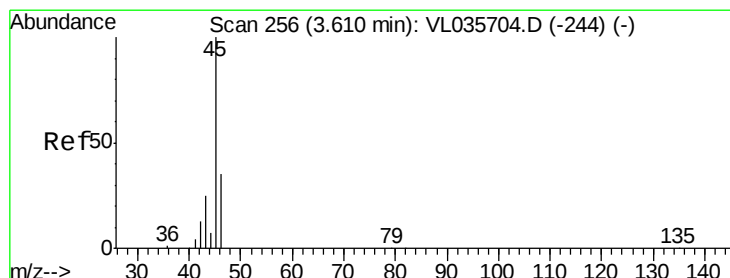
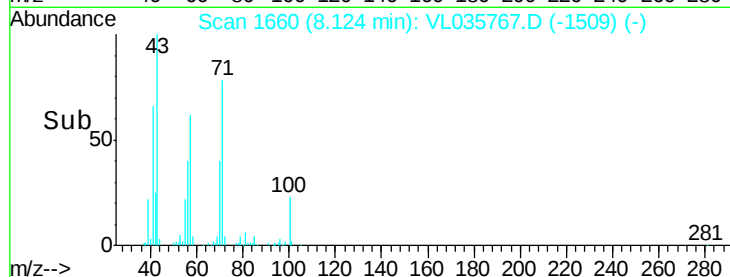
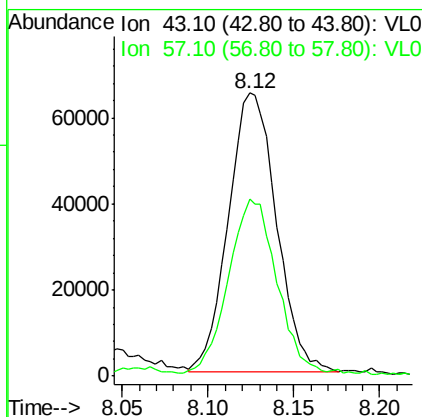
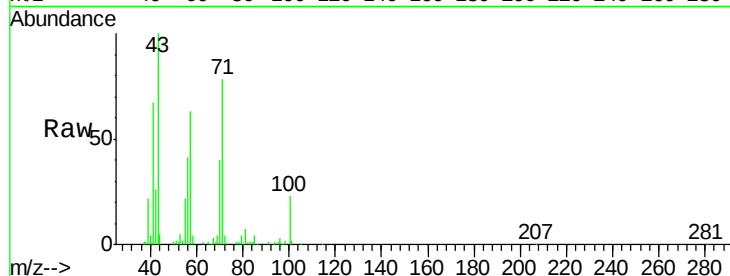
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Heptane
Concen: 0.905 ppbv
RT: 8.12 min Scan# 1660
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
4DL

Tot Ion: 43 Resp: 125188
Ion Ratio Lower Upper
43 100
57 63.3 50.4 75.6

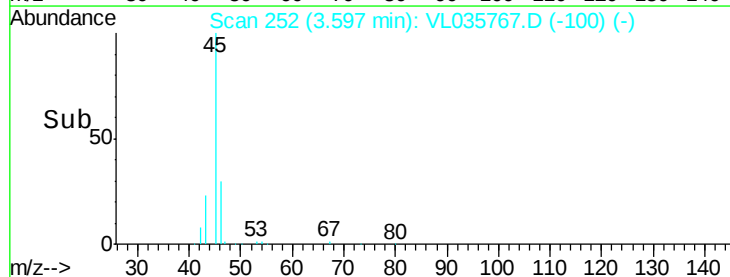
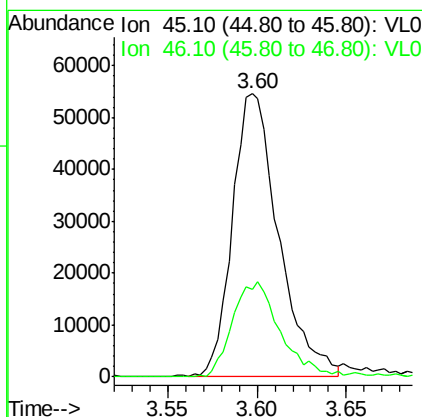
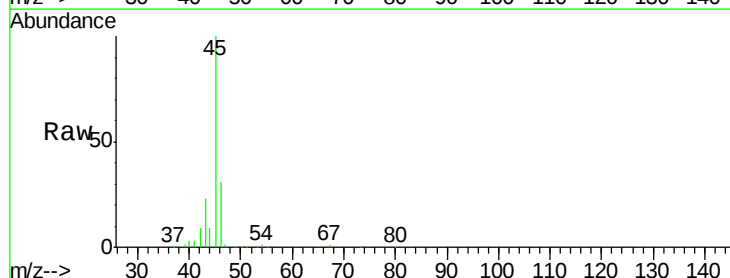
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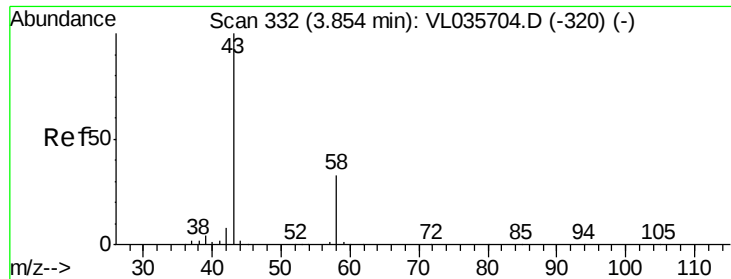
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#13
Ethanol
Concen: 8.006 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Tgt Ion: 45 Resp: 97954
Ion Ratio Lower Upper
45 100
46 35.7 14.7 58.7





#15

Acetone

Concen: 44.189 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Instrument :

MSVOA_L

ClientSampleId :

4DL

Tot Ion: 43 Resp: 6039193

Ion Ratio Lower Upper

43 100

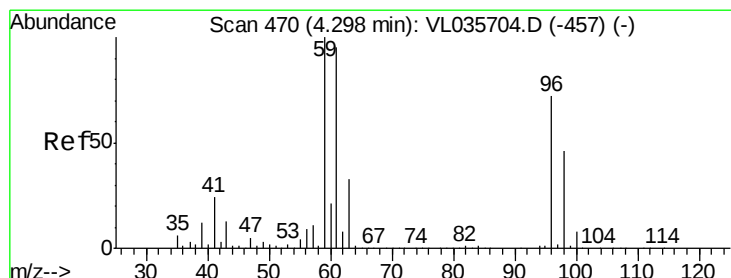
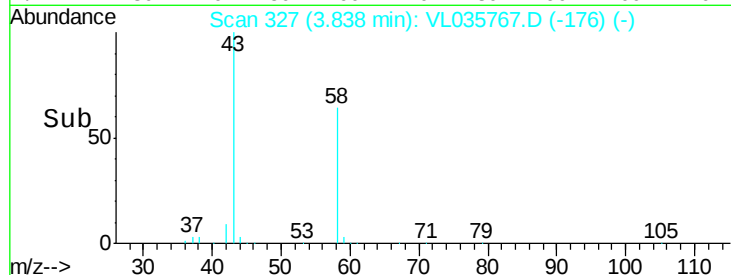
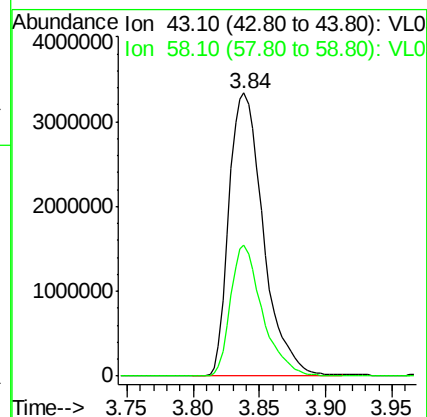
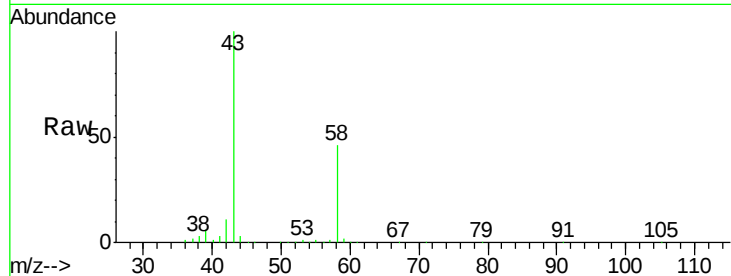
58 43.2 27.3 40.9#

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#17

tert-Butyl alcohol

Concen: 0.541 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035767.D

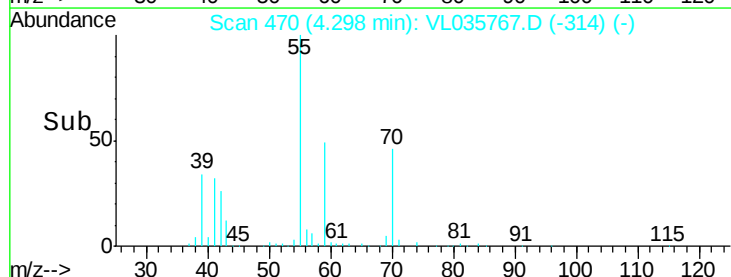
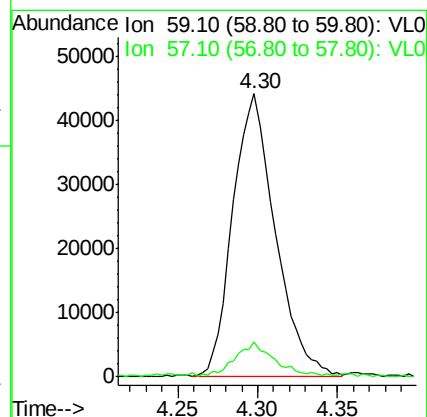
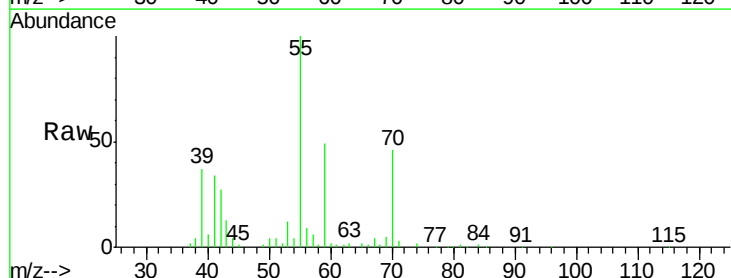
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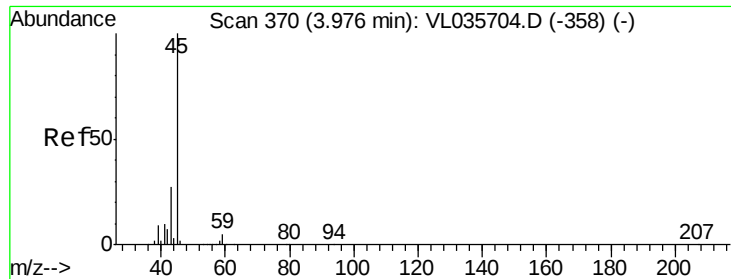
Tgt Ion: 59 Resp: 80524

Ion Ratio Lower Upper

59 100

57 265.6 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 0.840 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Instrument :

MSVOA_L

ClientSampleId :

4DL

Tot Ion: 45 Resp: 62432

Ion Ratio Lower Upper

45 100

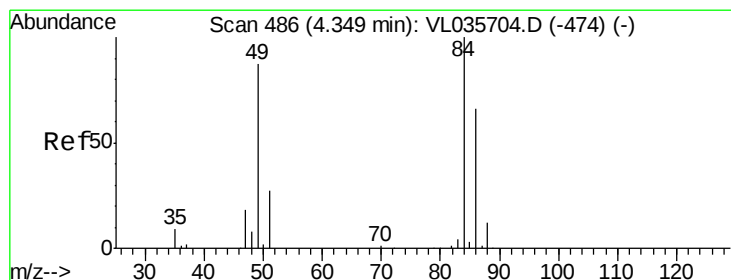
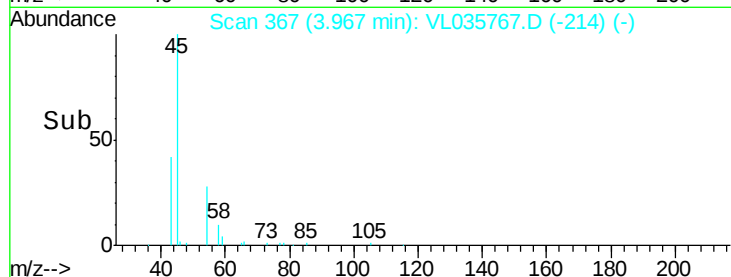
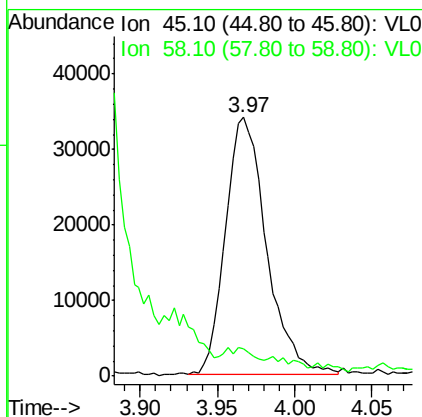
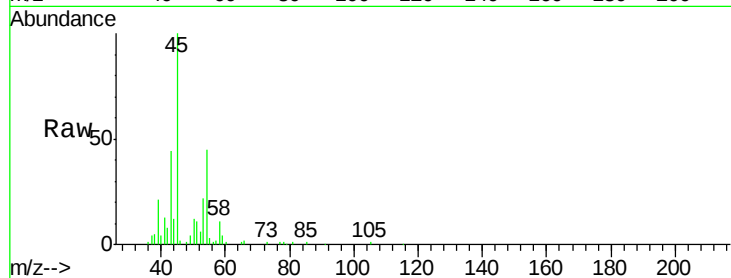
58 0.0 2.8 4.2#

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#20

Methylene Chloride

Concen: 1.979 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Tgt Ion: 84 Resp: 198687

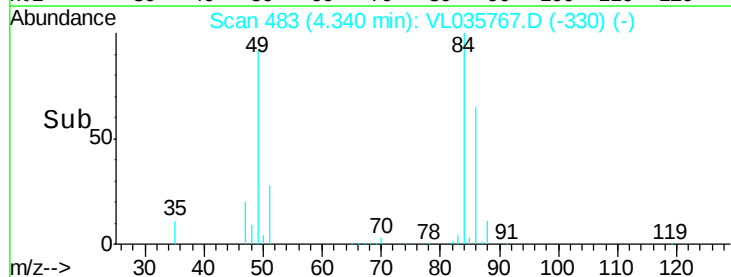
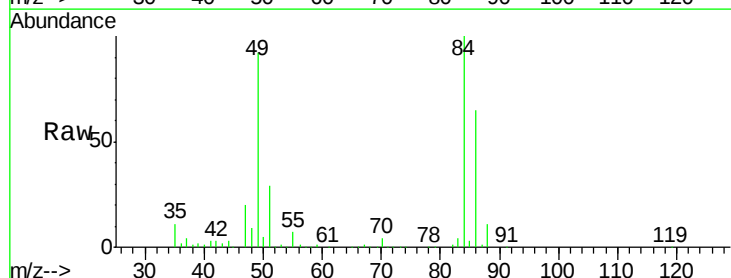
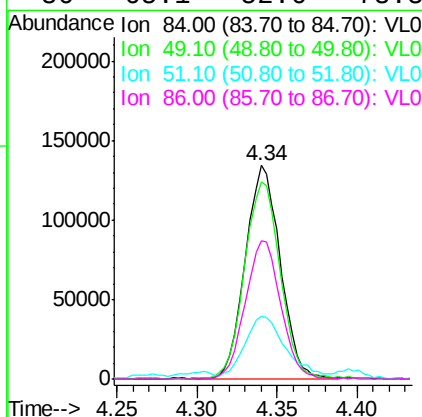
Ion Ratio Lower Upper

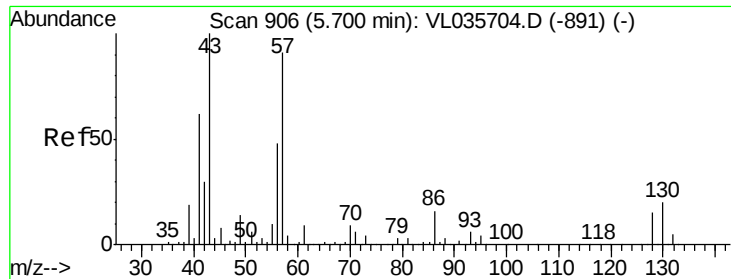
84 100

49 92.2 69.8 104.6

51 26.5 21.8 32.8

86 65.1 52.6 78.8





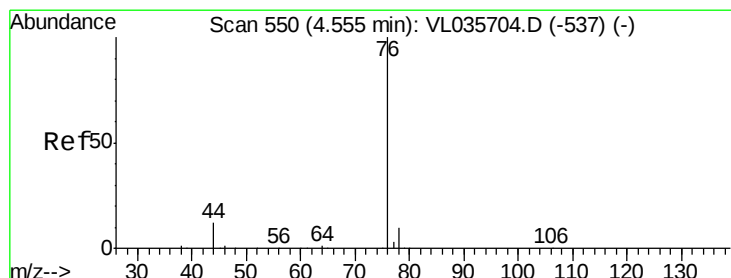
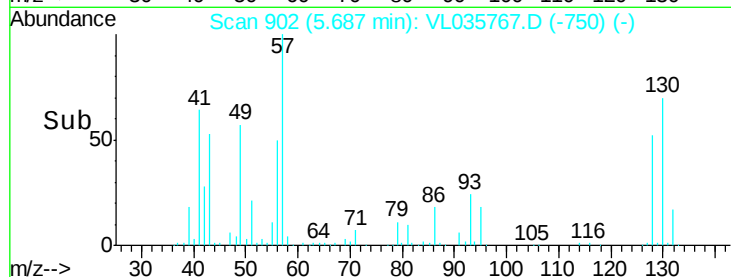
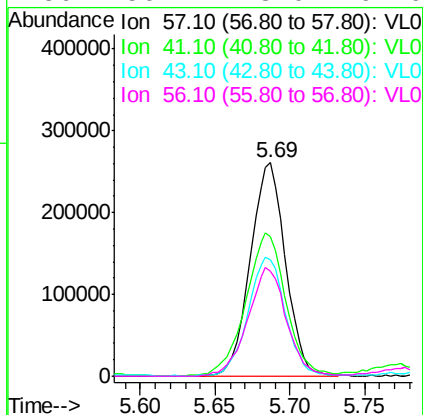
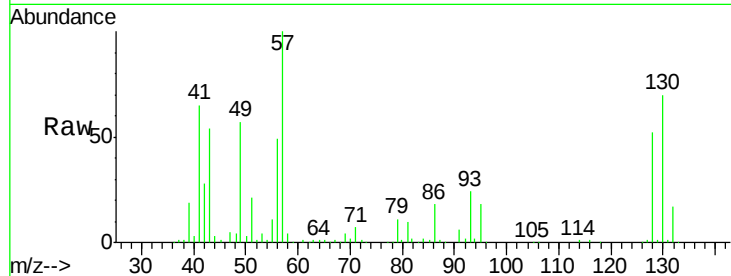
#26
Hexane
Concen: 3.158 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
4DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	76.6	57.9	86.9
43	59.2	143.8	215.6#
56	56.1	43.0	64.6

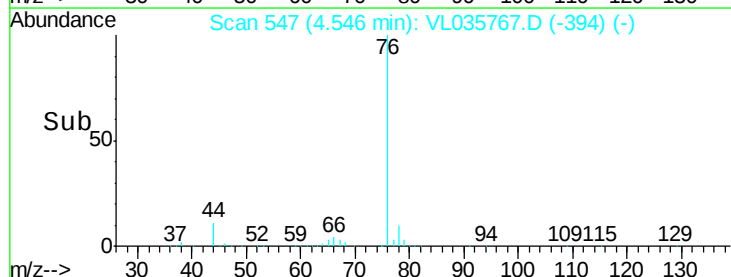
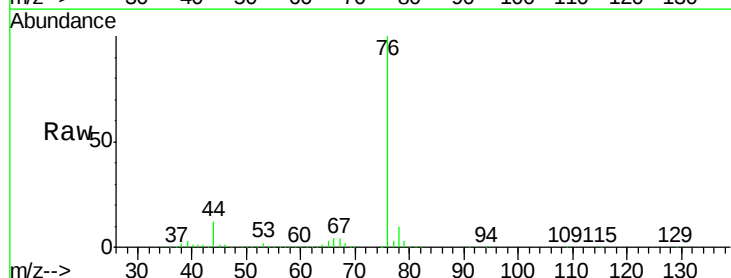
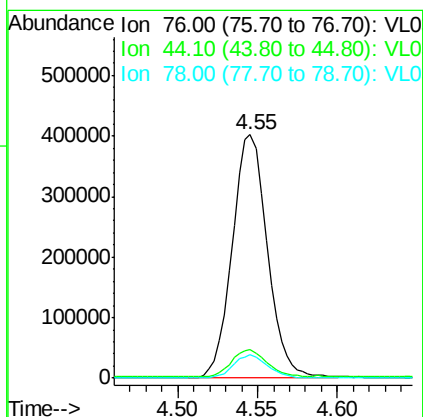
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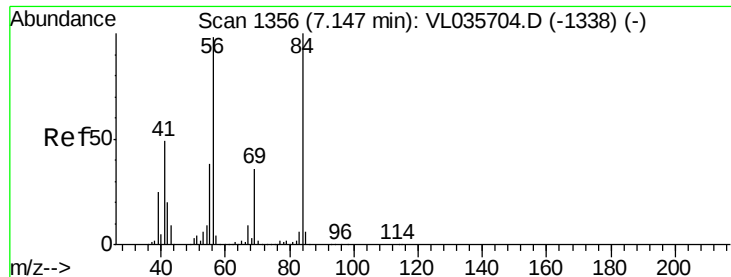
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#27
Carbon Disulfide
Concen: 2.994 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.01 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Tgt Ion	Ratio	Lower	Upper
76	100		
44	11.7	9.7	14.5
78	9.7	7.8	11.8





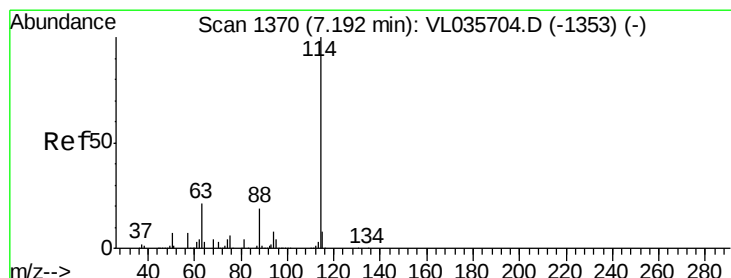
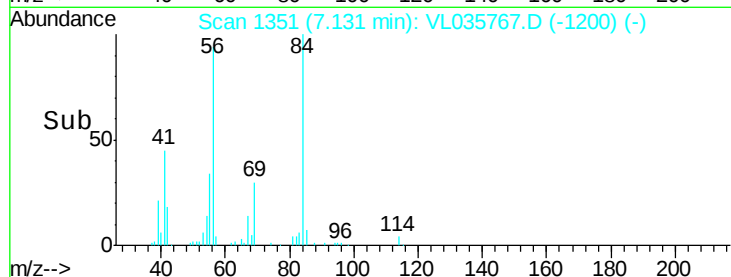
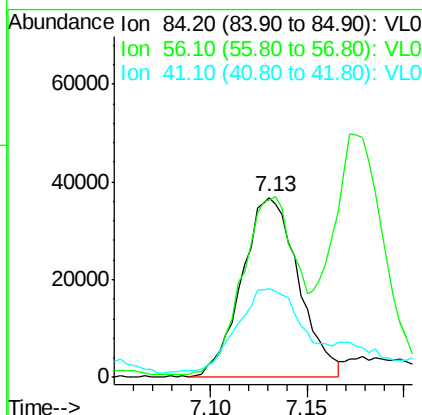
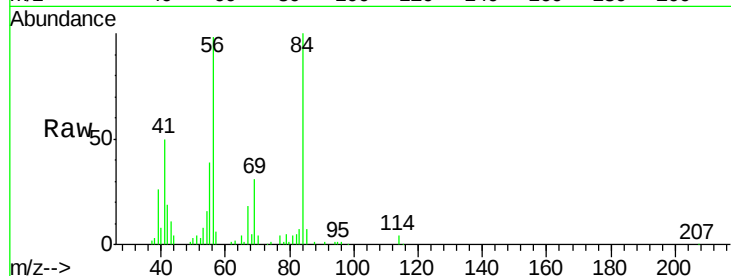
#30
Cyclohexane
Concen: 0.558 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Instrument :
MSVOA_L
ClientSampleId :
4DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	95.3	84.6	127.0
41	69.1	41.1	61.7#

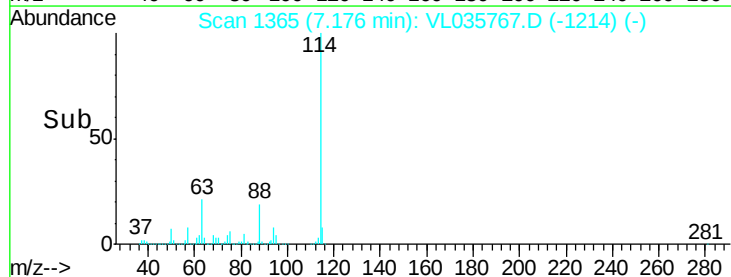
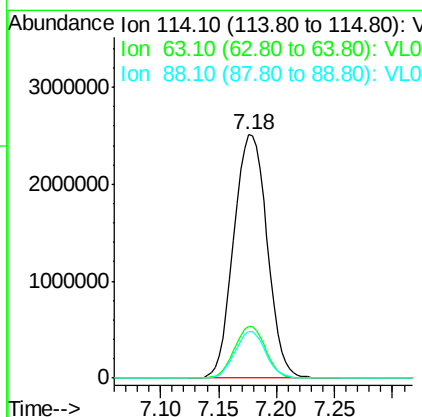
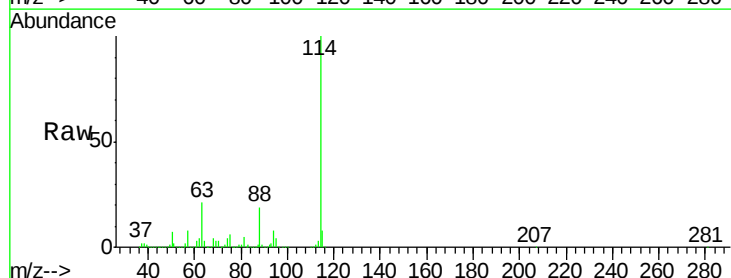
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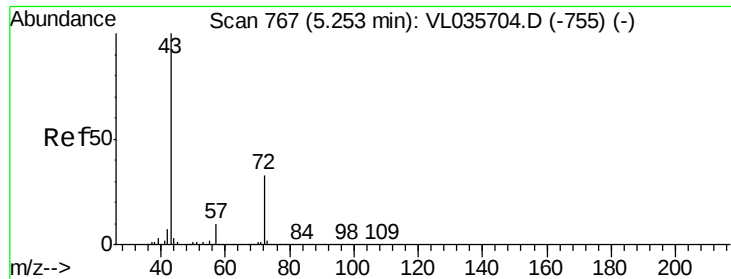
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.9	16.1	24.1
88	17.7	14.1	21.1





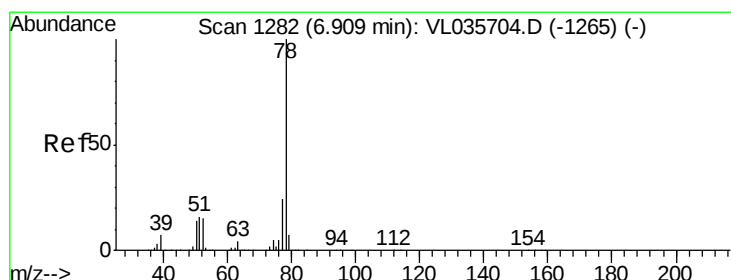
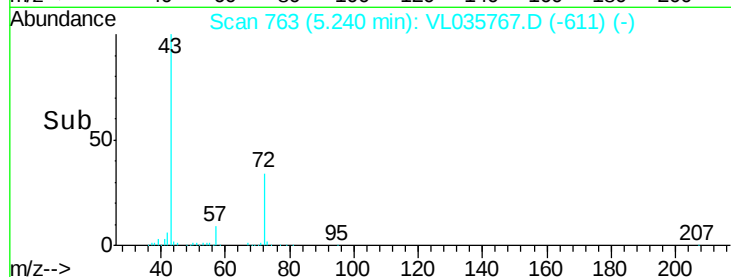
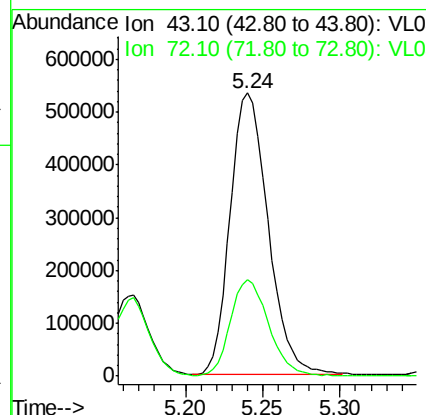
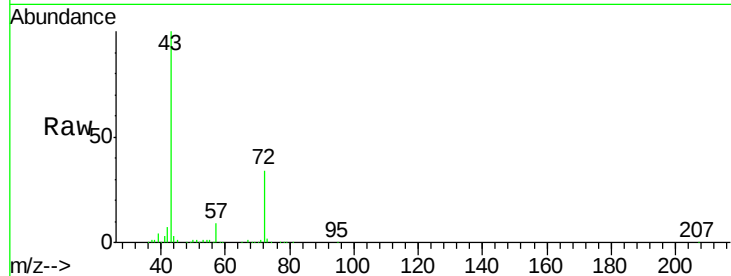
#34
2-Butanone
Concen: 5.484 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.01 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
4DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	34.3	26.1	39.1

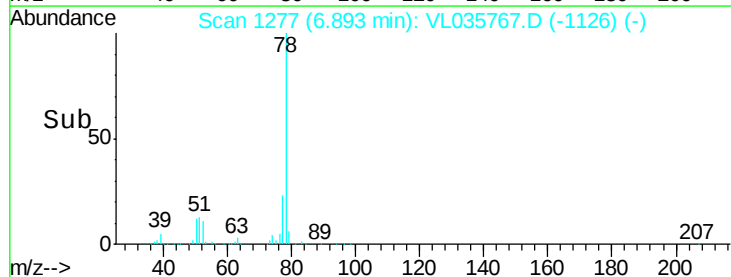
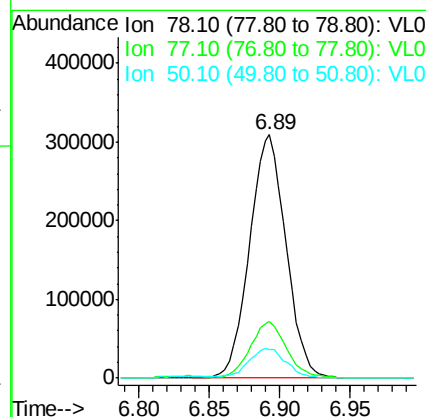
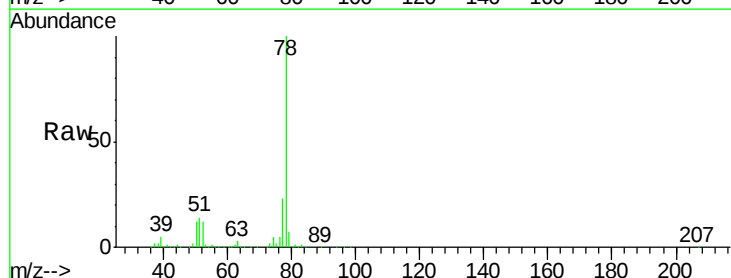
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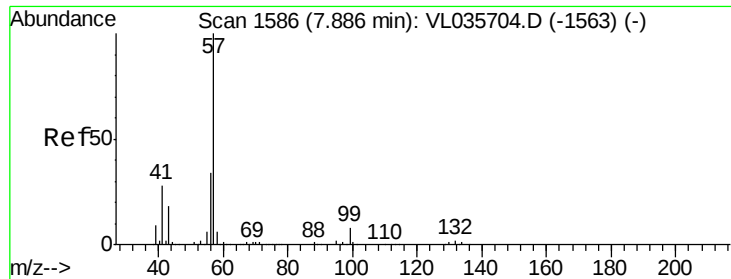
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#36
Benzene
Concen: 1.700 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.3	28.9
50	11.4	11.6	17.4#





#44

2,2,4-Trimethylpentane

Concen: 0.337 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.02 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Instrument :

MSVOA_L

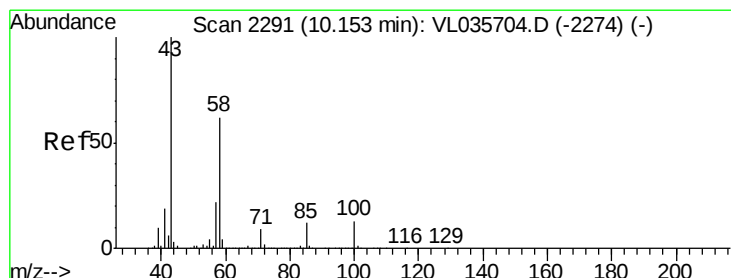
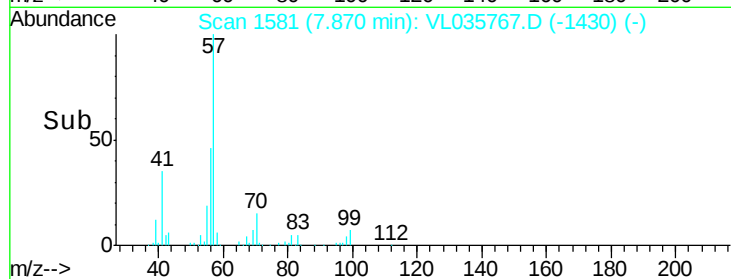
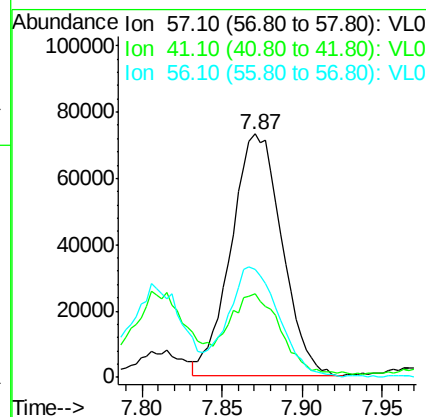
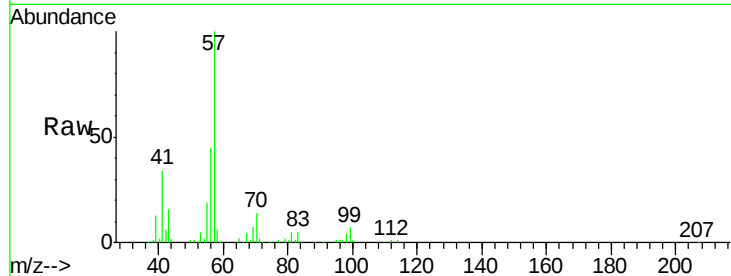
ClientSampled :

4DL

Tot Ion:	57	Resp:	158646
Ion Ratio		Lower	Upper
57	100		
41	34.5	21.2	31.8#
56	44.7	25.8	38.8#

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#51

2-Hexanone

Concen: 1.806 ppbv

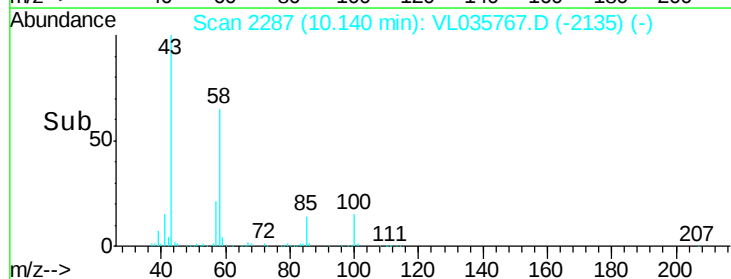
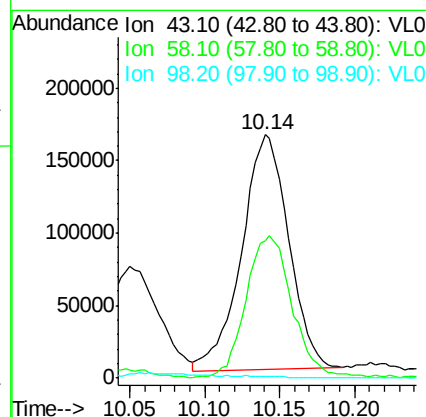
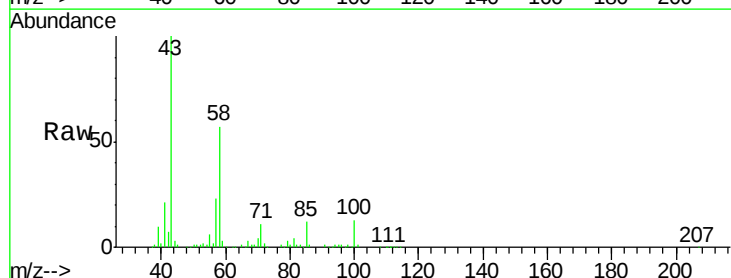
RT: 10.14 min Scan# 2287

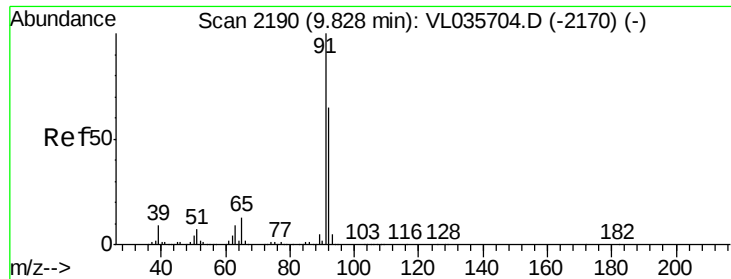
Delta R.T. -0.01 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Tgt Ion:	43	Resp:	354072
Ion Ratio		Lower	Upper
43	100		
58	59.9	48.7	73.1
98	0.1	0.7	1.1#





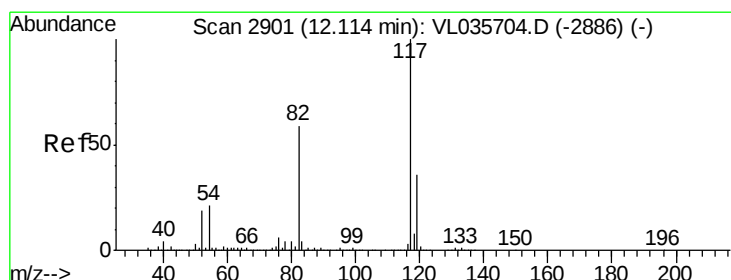
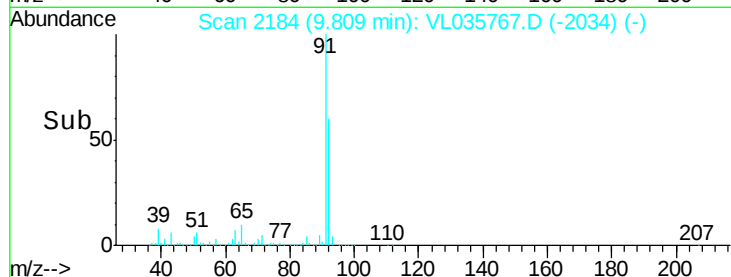
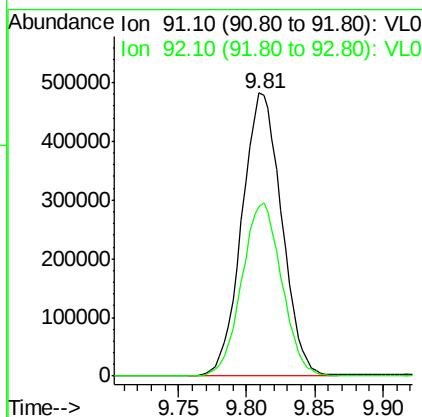
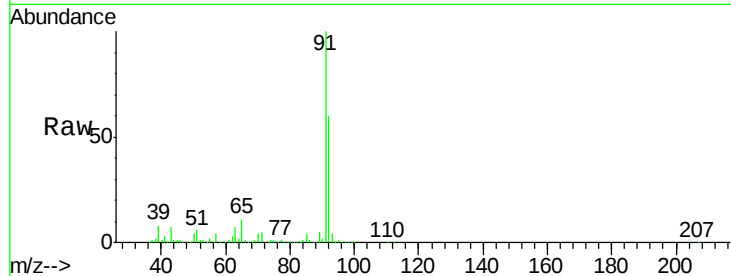
#53
Toluene
Concen: 2.523 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
4DL

Tot Ion: 91 Resp: 976455
Ion Ratio Lower Upper
91 100
92 61.4 50.0 75.0

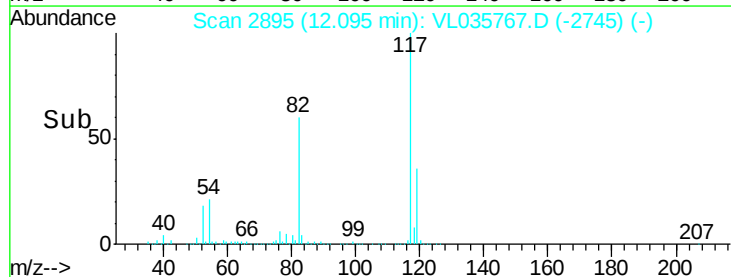
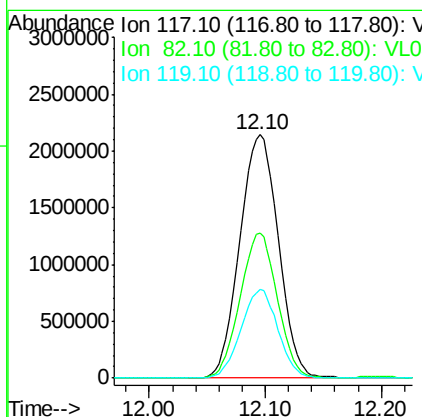
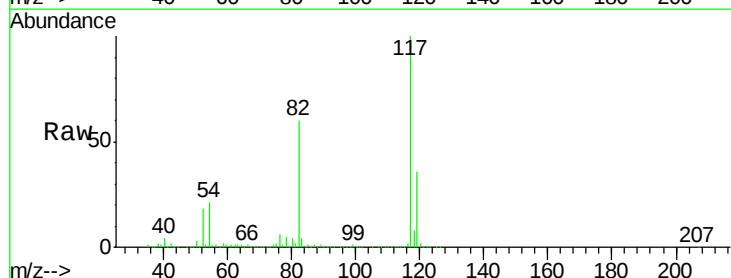
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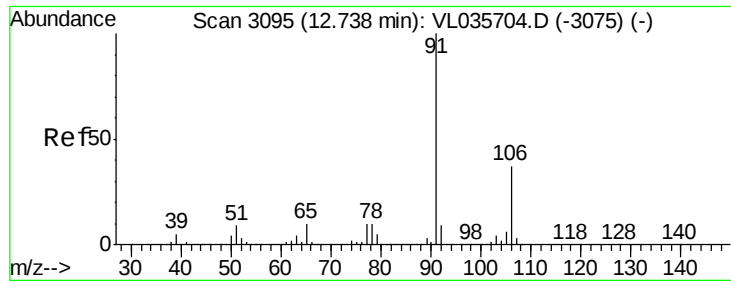
MMDadoda
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Tgt Ion: 117 Resp: 4968596
Ion Ratio Lower Upper
117 100
82 57.4 46.1 69.1
119 34.9 28.0 42.0





#58

Ethyl Benzene

Concen: 0.336 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.02 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Instrument :

MSVOA_L

ClientSampled :

4DL

Tot Ion: 91 Resp: 167623

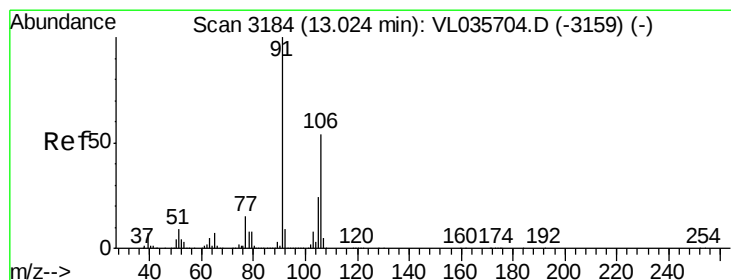
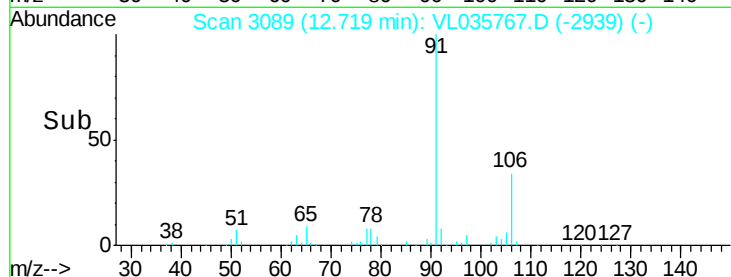
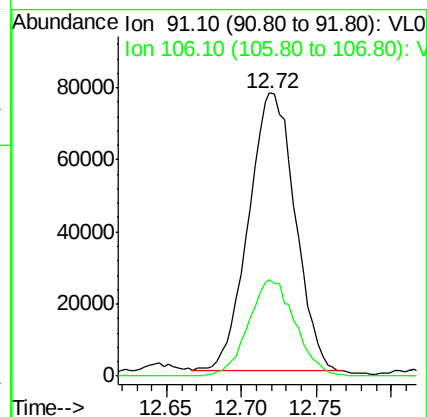
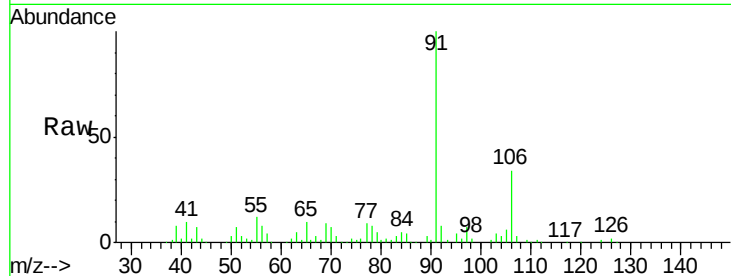
Ion Ratio Lower Upper

91 100

106 34.5 29.7 44.5

Manual Integrations
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#59

m/p-Xylene

Concen: 1.052 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.04 min

Lab File: VL035767.D

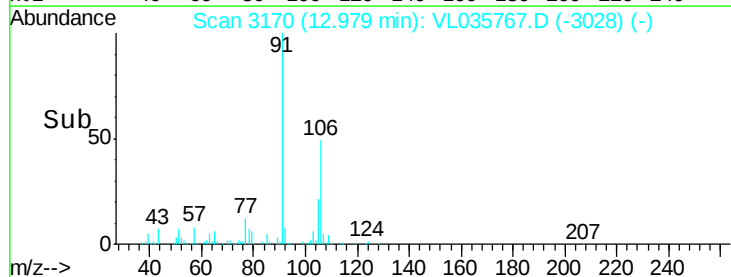
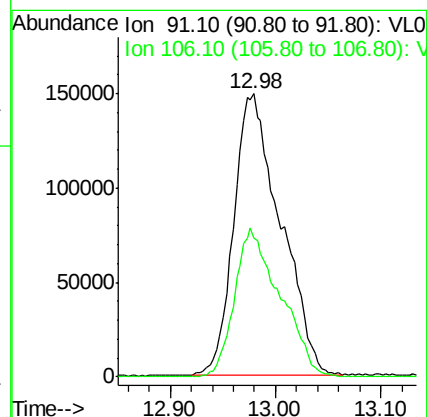
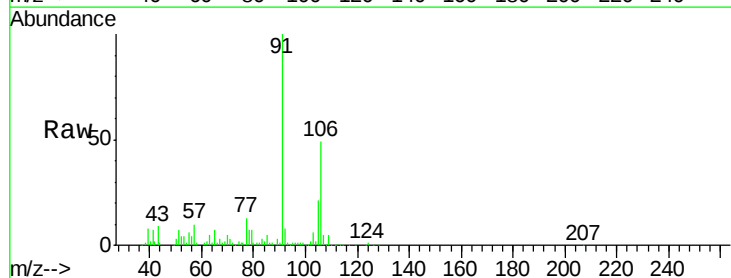
Acq: 12 Oct 2020 18:36

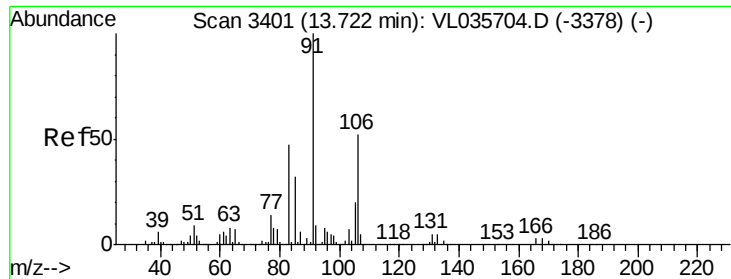
Tgt Ion: 91 Resp: 458275

Ion Ratio Lower Upper

91 100

106 51.6 41.4 62.0





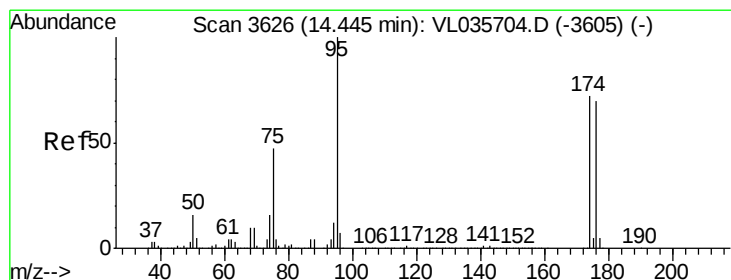
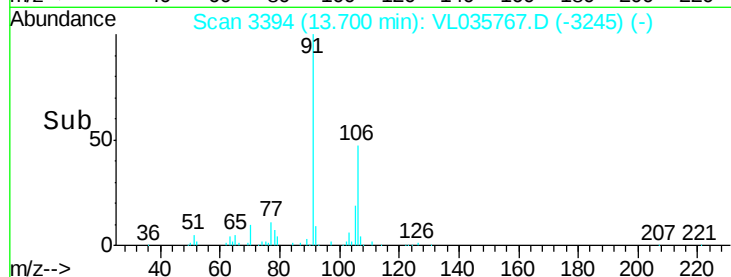
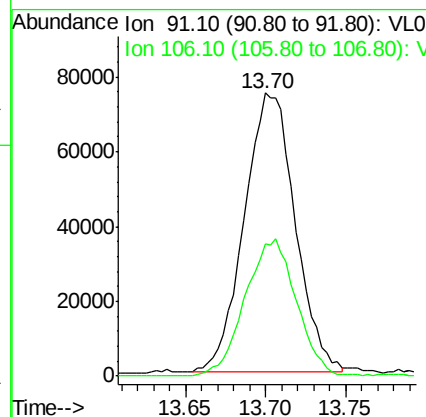
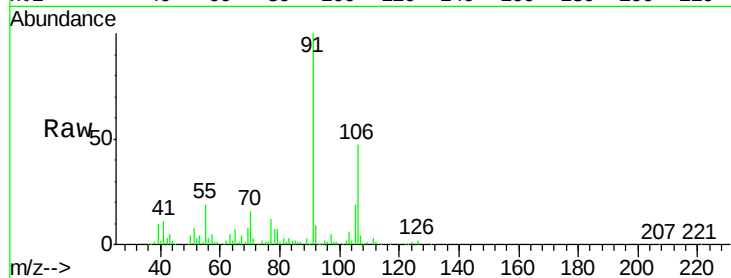
#60
o-Xylene
Concen: 0.371 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
4DL

Tot Ion: 91 Resp: 163487
Ion Ratio Lower Upper
91 100
106 49.8 25.0 75.0

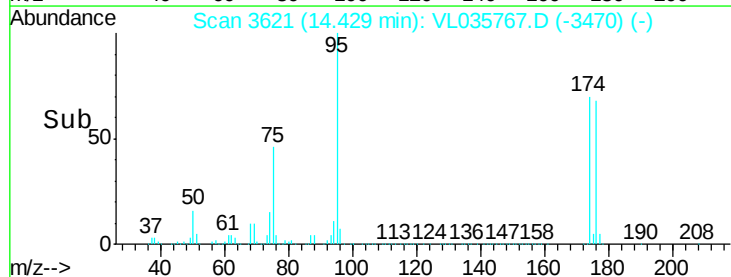
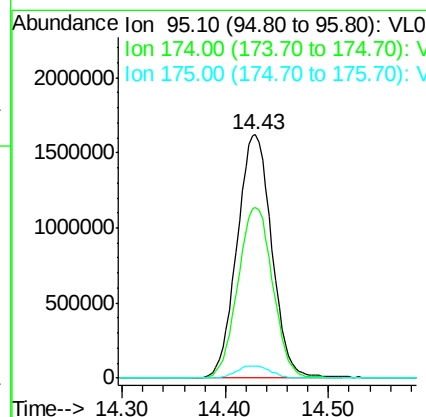
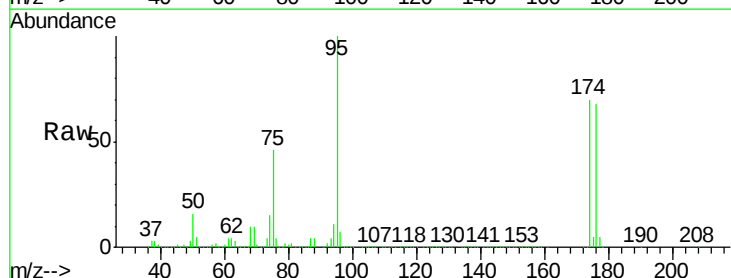
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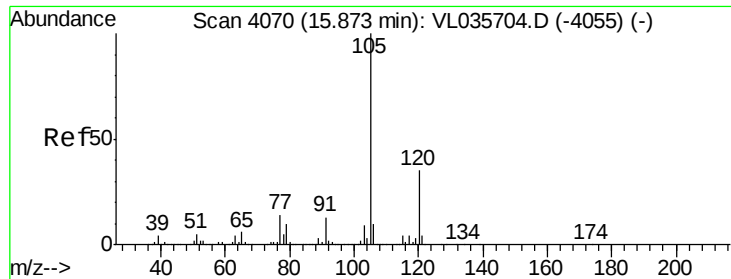
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.172 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.02 min
Lab File: VL035767.D
Acq: 12 Oct 2020 18:36

Tgt Ion: 95 Resp: 3787287
Ion Ratio Lower Upper
95 100
174 71.3 59.6 89.4
175 5.1 4.2 6.4





#72

4-Ethyltoluene

Concen: 0.146 ppbv m

RT: 15.86 min Scan# 4065

Delta R.T. -0.02 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Instrument :

MSVOA_L

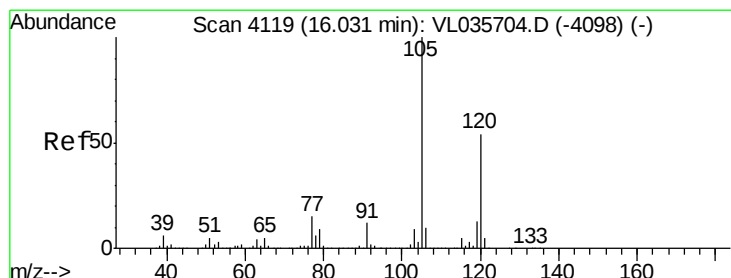
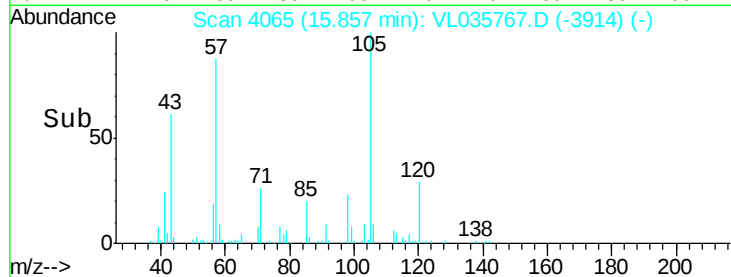
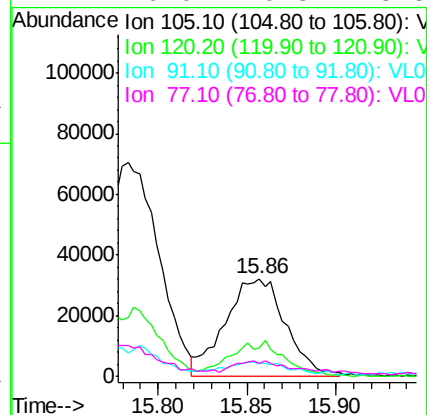
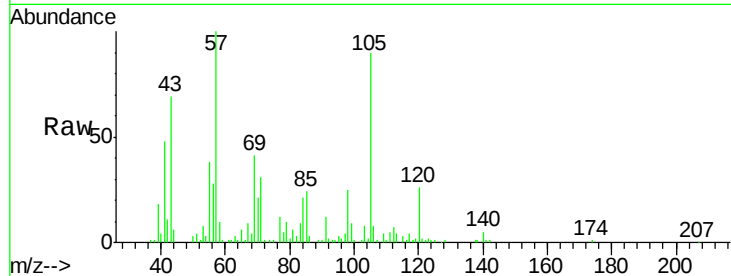
ClientSampled :

4DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	0.0	26.5	39.7#
91	0.0	10.2	15.2#
77	0.0	10.3	15.5#

Manual Integrations
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#73

1,3,5-Trimethylbenzene

Concen: 0.116 ppbv

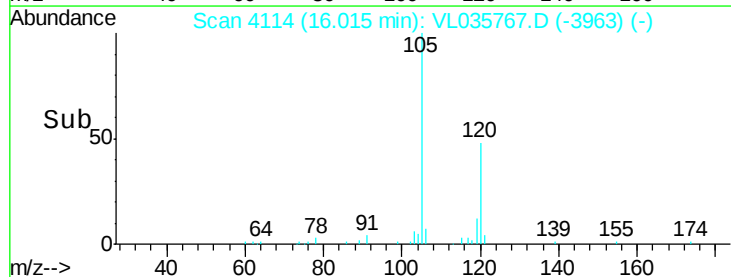
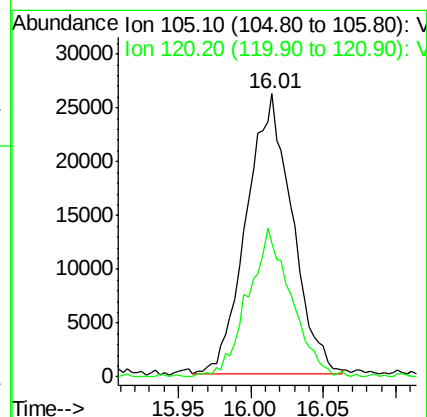
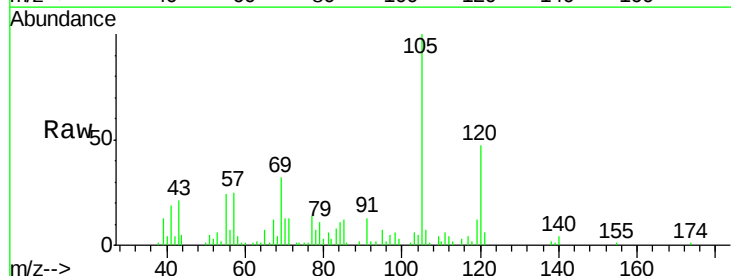
RT: 16.01 min Scan# 4114

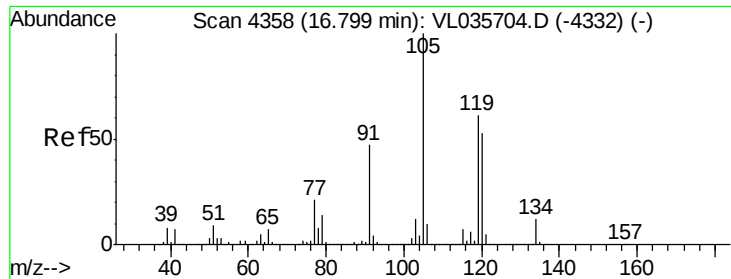
Delta R.T. -0.02 min

Lab File: VL035767.D

Acq: 12 Oct 2020 18:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.8	43.0	64.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.353 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.02 min
 Lab File: VL035767.D
 Acq: 12 Oct 2020 18:36

Instrument :
 MSVOA_L
 ClientSampleId :
 4DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	45.7	42.5	63.7
91	10.6	37.7	56.5
77	11.8	16.7	25.1

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:11:45 PM

