

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036124.D
 Acq On : 9 Dec 2020 9:58
 Operator : SY/AP
 Sample : L4949-03DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL2

Manual Integrations
 APPROVED

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 12/11/2020 12:24:18 PM

Quant Time: Dec 10 21:52:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1265296	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2601085	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2347570	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2020045	10.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	31236	0.432	ppbv #	82
10) Heptane	8.14	43	79722m	0.432	ppbv	
13) Ethanol	3.62	45	120472m	12.084	ppbv	
15) Acetone	3.85	43	1356778	8.922	ppbv	99
25) Ethyl Acetate	5.69	43	166804	0.549	ppbv #	98
30) Cyclohexane	7.14	84	21683m	0.216	ppbv	
34) 2-Butanone	5.25	43	173127	1.003	ppbv	92
36) Benzene	6.89	78	37087m	0.168	ppbv	
41) Tetrahydrofuran	6.07	42	35143	0.343	ppbv #	81
44) 2,2,4-Trimethylpentane	7.87	57	215088m	0.539	ppbv	
53) Toluene	9.82	91	1165164	4.707	ppbv	98
58) Ethyl Benzene	12.73	91	189225	0.588	ppbv	99
59) m/p-Xylene	12.98	91	599910m	2.214	ppbv	
60) o-Xylene	13.71	91	232389	0.910	ppbv	96
72) 4-Ethyltoluene	15.86	105	85026	0.307	ppbv #	84
73) 1,3,5-Trimethylbenzene	16.01	105	79451	0.301	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.78	105	282401	1.065	ppbv #	69

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

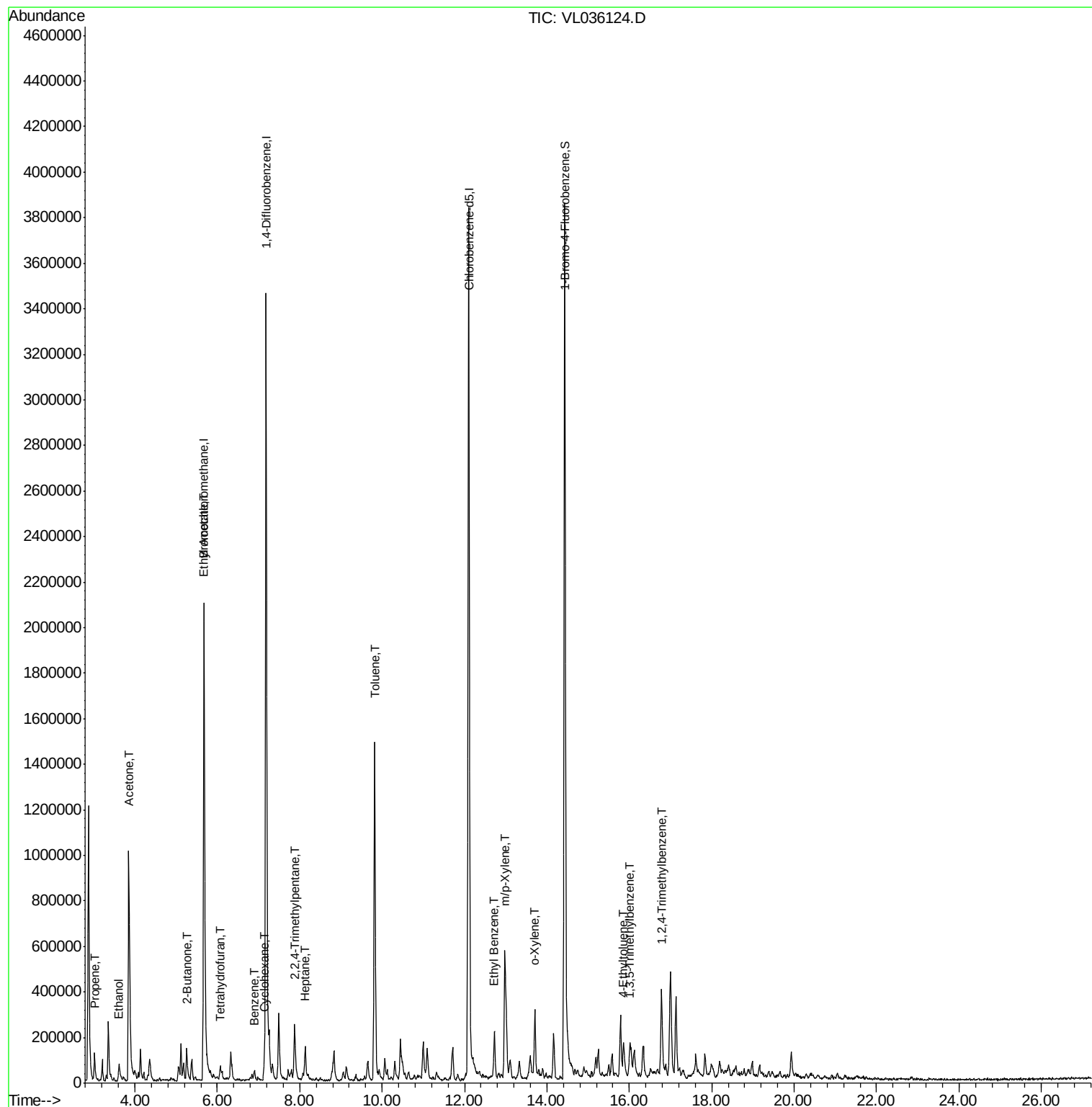
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
Data File : VL036124.D
Acq On : 9 Dec 2020 9:58
Operator : SY/AP
Sample : L4949-03DL2 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

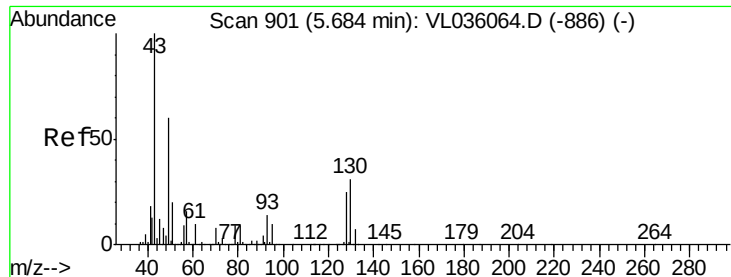
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL2

Manual Integrations
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12/11/2020 12:24:18 PM

Quant Time: Dec 10 21:52:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampled :

IA-1DL2

Tot Ion: 49 Resp: 1265296

Ion Ratio Lower Upper

49 100

128 35.9 21.1 63.1

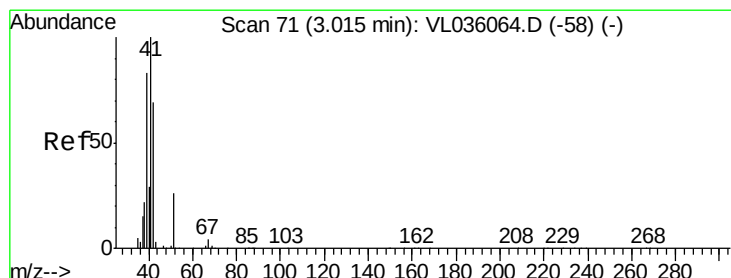
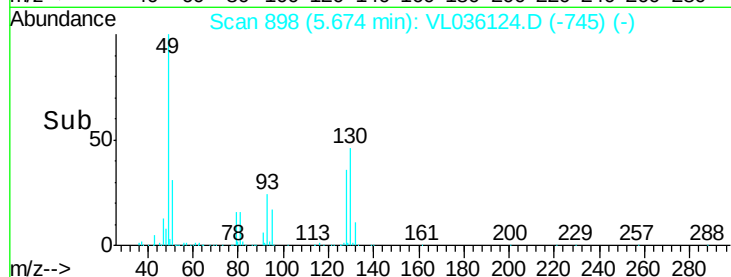
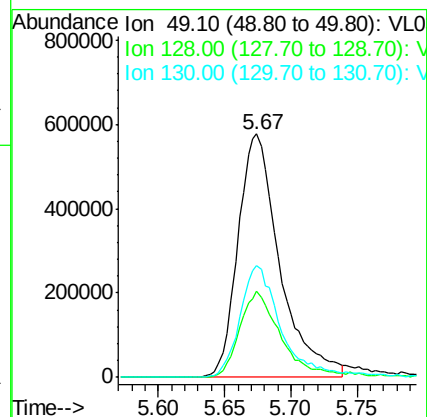
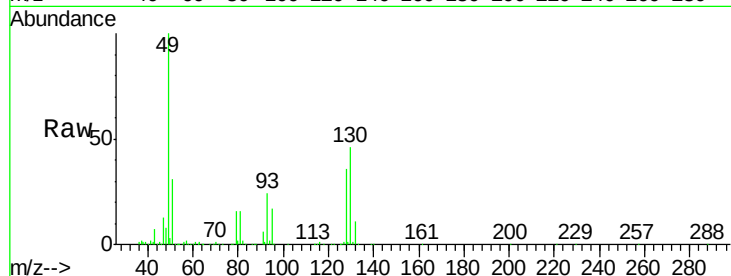
130 46.6 27.1 81.3

Manual Integrations

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#9

Propene

Concen: 0.432 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL036124.D

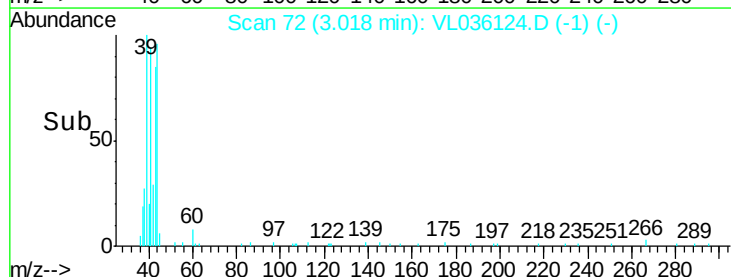
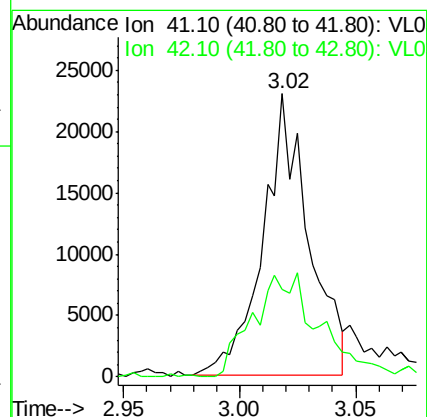
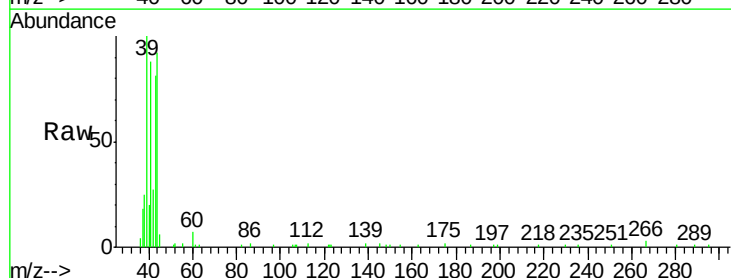
Acq: 9 Dec 2020 9:58

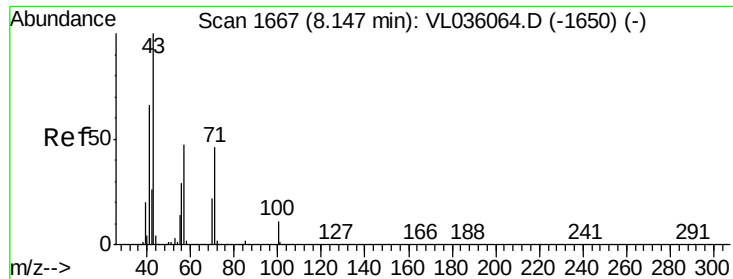
Tgt Ion: 41 Resp: 31236

Ion Ratio Lower Upper

41 100

42 56.6 57.0 85.6#





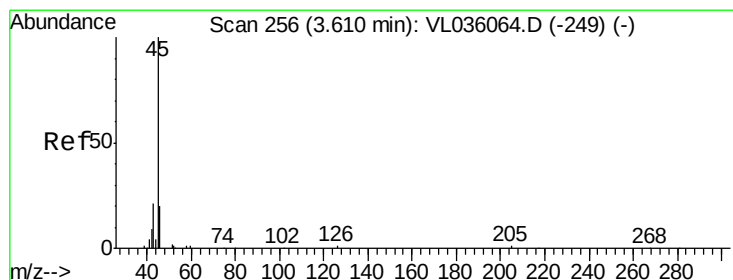
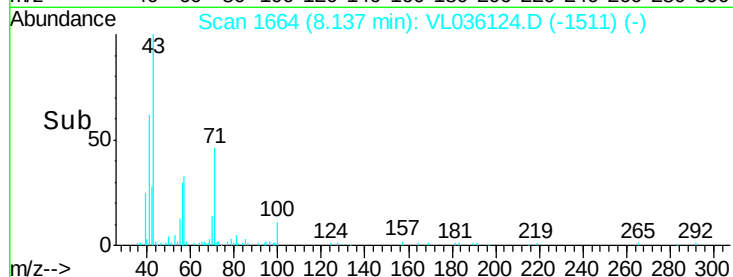
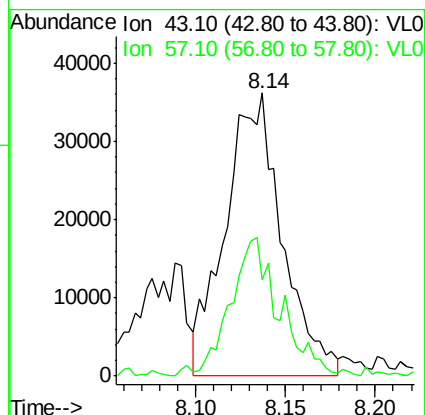
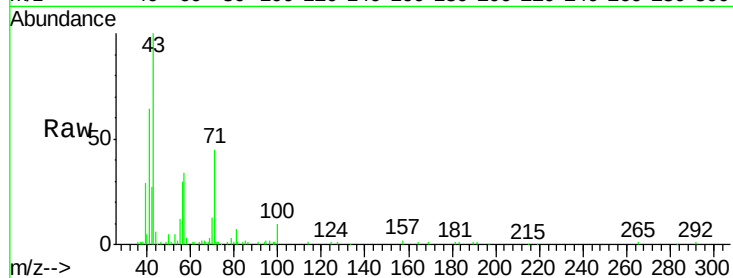
#10
Heptane
Concen: 0.432 ppbv m
RT: 8.14 min Scan# 1664
Delta R.T. -0.01 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampled :
IA-1DL2

Tot Ion: 43 Resp: 79722
Ion Ratio Lower Upper
43 100
57 43.5 37.9 56.9

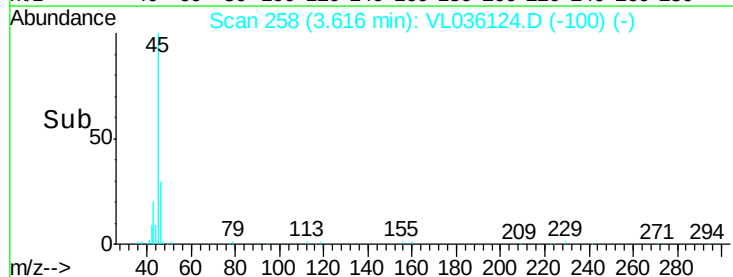
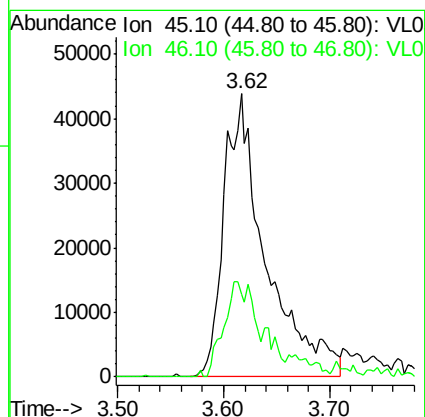
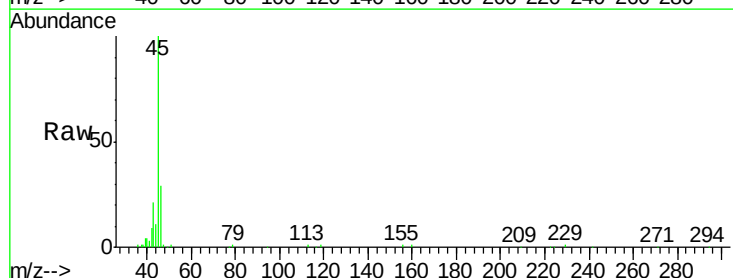
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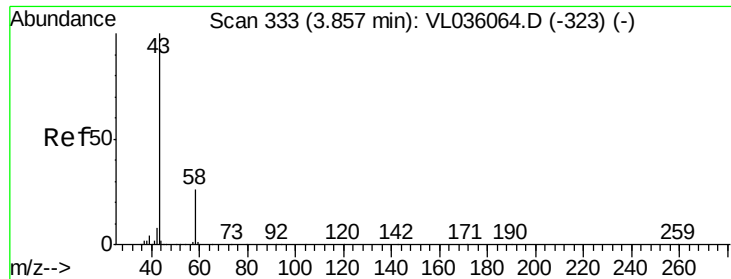
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#13
Ethanol
Concen: 12.084 ppbv m
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Tgt Ion: 45 Resp: 120472
Ion Ratio Lower Upper
45 100
46 0.0 19.0 75.8#





#15

Acetone

Concen: 8.922 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL2

Tot Ion: 43 Resp: 1356778

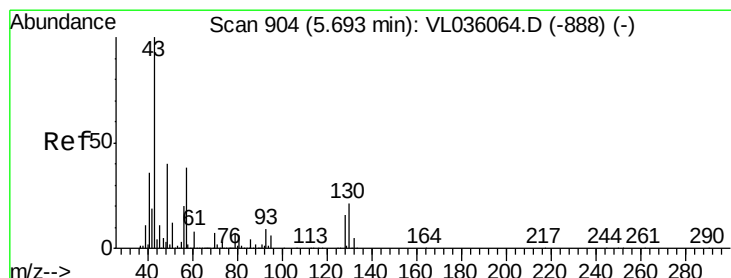
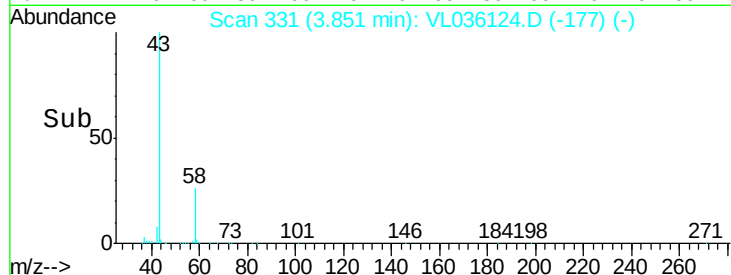
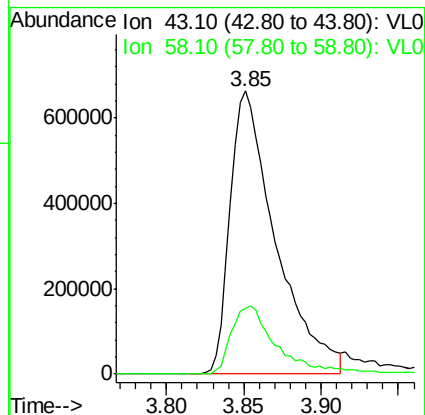
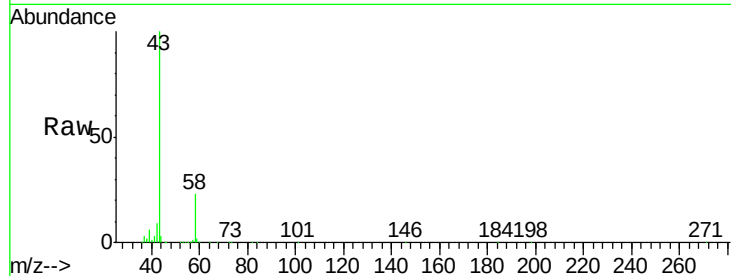
Ion Ratio Lower Upper

43 100

58 25.4 20.9 31.3

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#25

Ethyl Acetate

Concen: 0.549 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Tgt Ion: 43 Resp: 166804

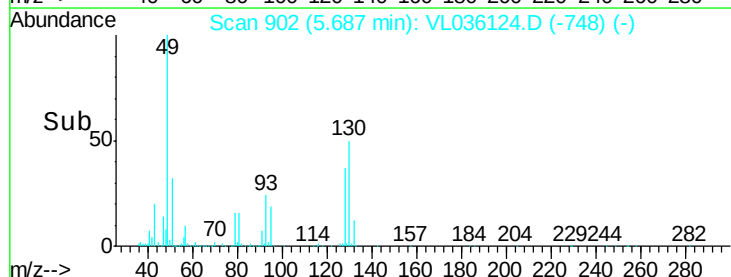
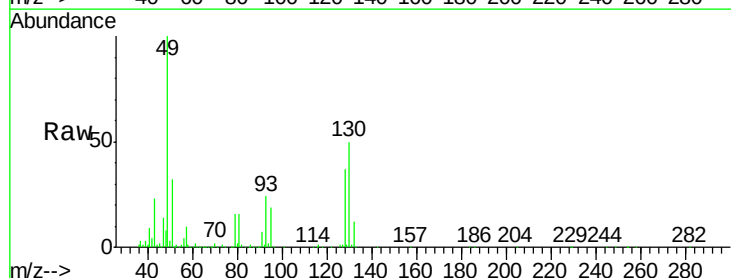
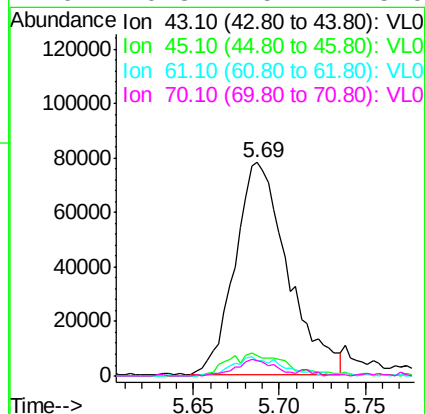
Ion Ratio Lower Upper

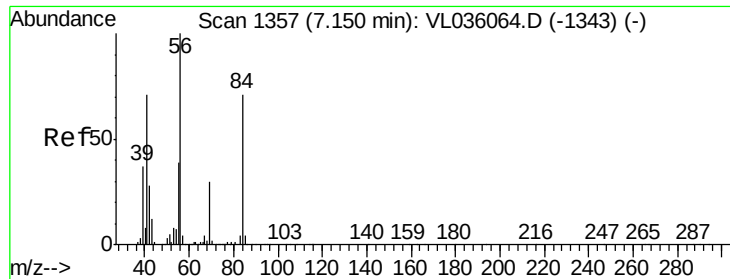
43 100

45 12.4 8.2 12.4#

61 9.2 7.4 11.2

70 6.8 5.4 8.0





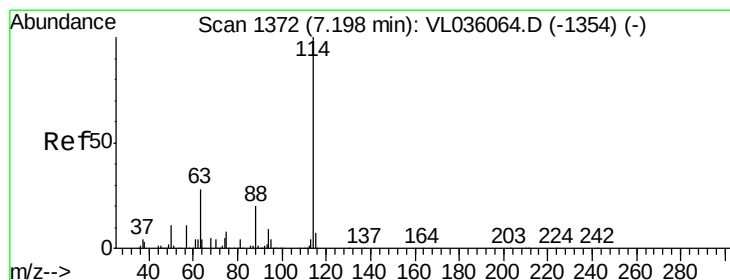
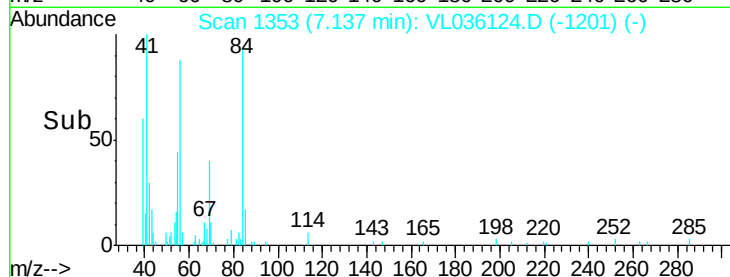
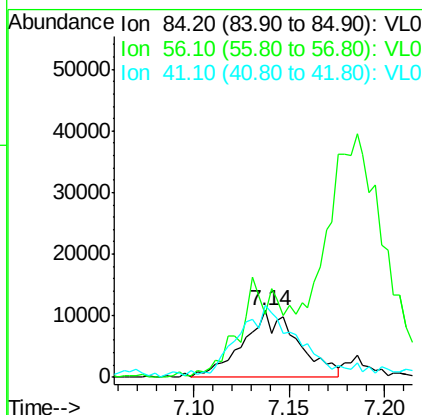
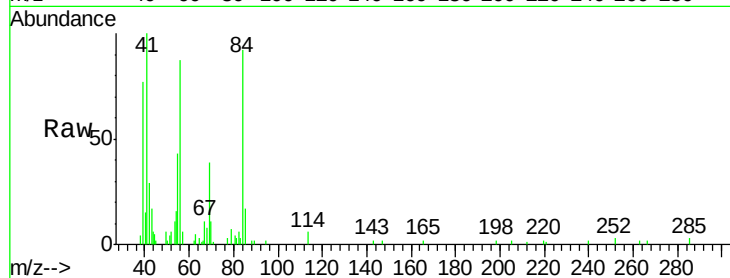
#30
Cyclohexane
Concen: 0.216 ppbv m
RT: 7.14 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampled :
IA-1DL2

Tot Ion	Ratio	Lower	Upper
84	100		
56	145.4	128.0	192.0
41	122.3	81.3	121.9

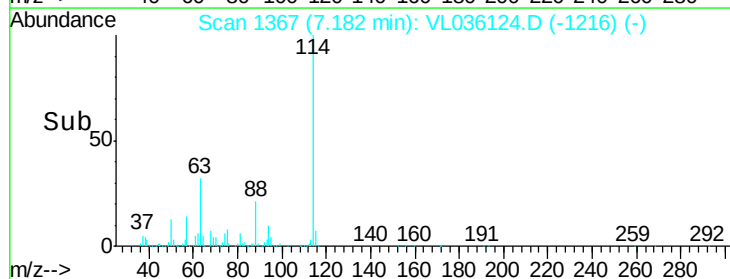
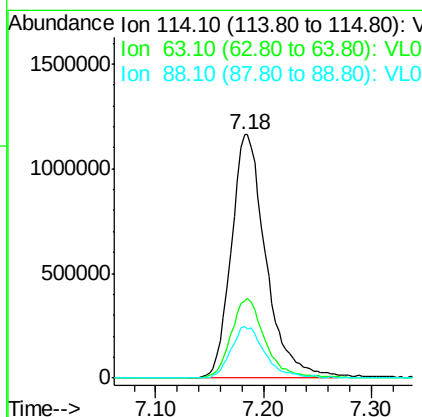
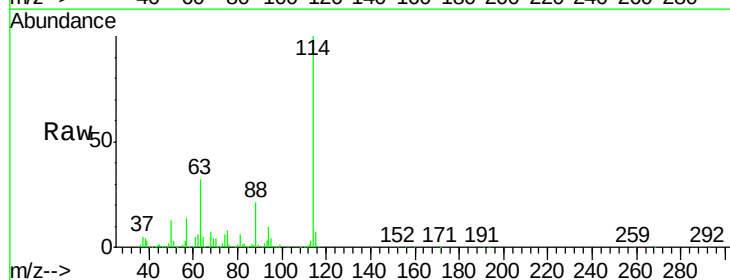
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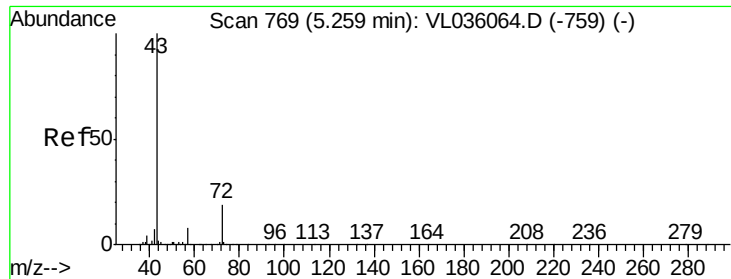
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	32.7	23.6	35.4
88	21.0	15.8	23.6





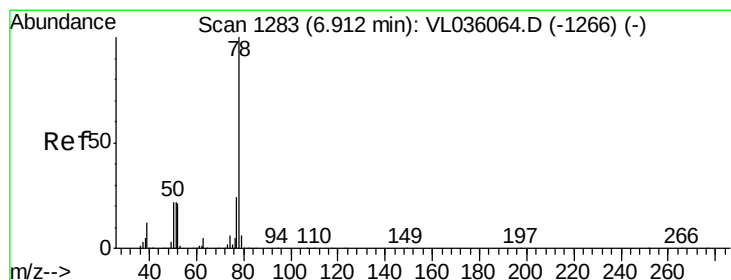
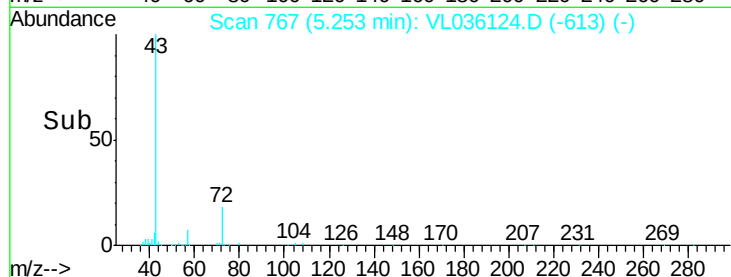
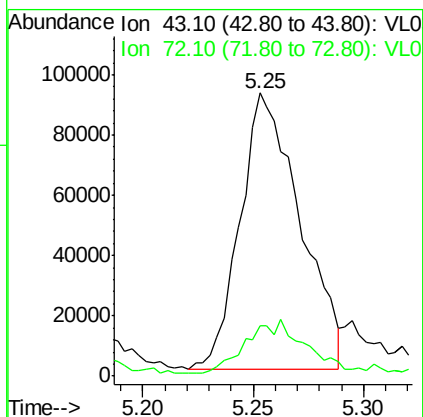
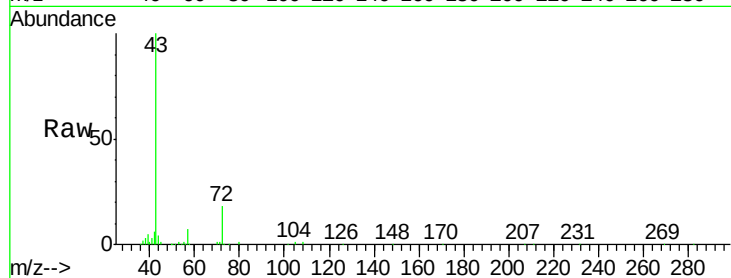
#34
2-Butanone
Concen: 1.003 ppbv
RT: 5.25 min Scan# 767
Delta R.T. -0.01 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampled :
IA-1DL2

Tot Ion: 43 Resp: 173127
Ion Ratio Lower Upper
43 100
72 24.4 16.5 24.7

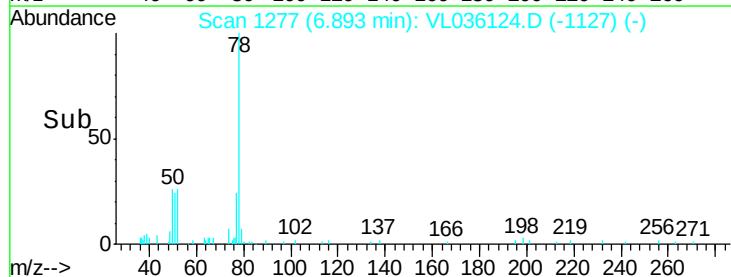
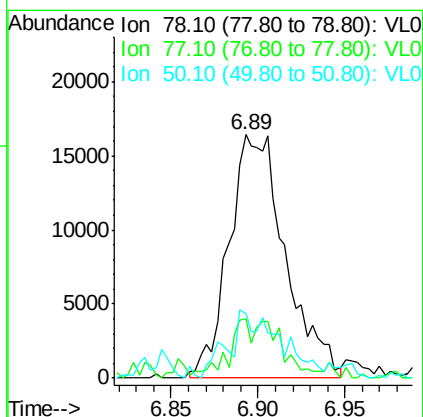
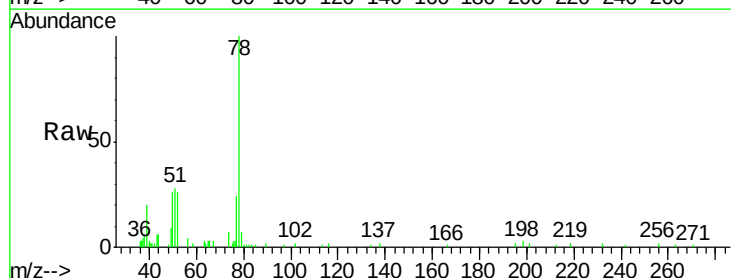
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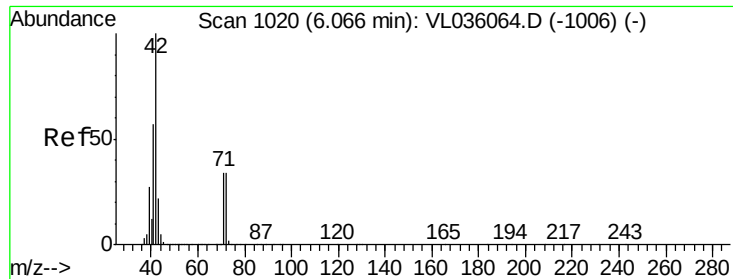
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#36
Benzene
Concen: 0.168 ppbv m
RT: 6.89 min Scan# 1277
Delta R.T. -0.02 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Tgt Ion: 78 Resp: 37087
Ion Ratio Lower Upper
78 100
77 24.4 19.4 29.2
50 26.2 17.8 26.8





#41

Tetrahydrofuran

Concen: 0.343 ppbv

RT: 6.07 min Scan# 1022

Delta R.T. 0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Instrument :

MSVOA_L

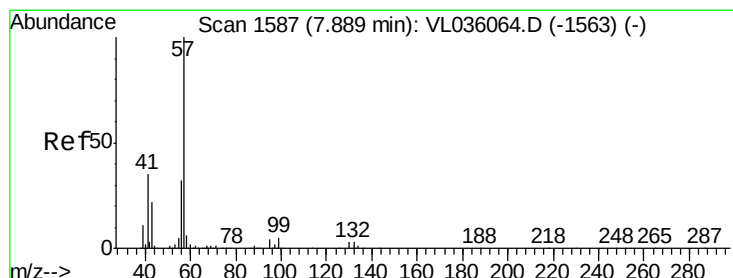
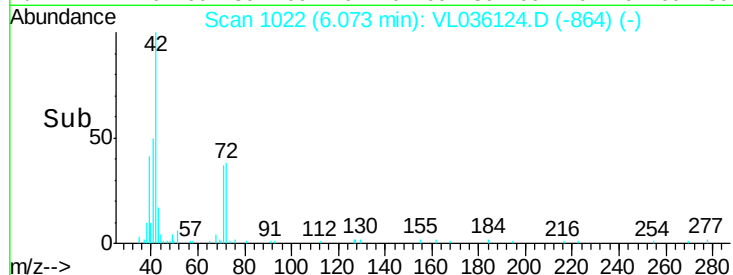
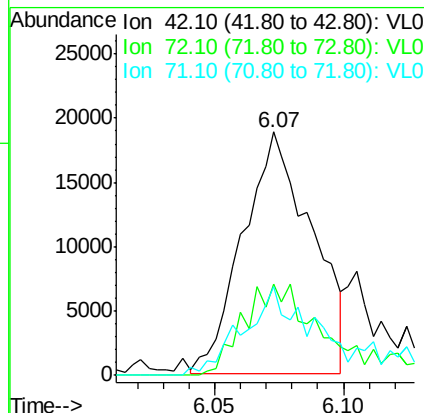
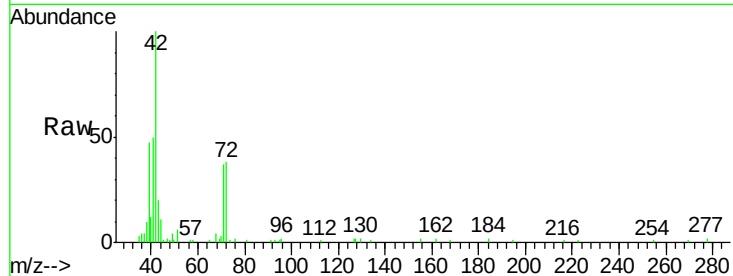
ClientSampleId :

IA-1DL2

Tot Ion:	42	Resp:	35143
Ion Ratio		Lower	Upper
42	100		
72	44.3	28.3	42.5#
71	46.9	27.3	40.9#

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#44

2,2,4-Trimethylpentane

Concen: 0.539 ppbv m

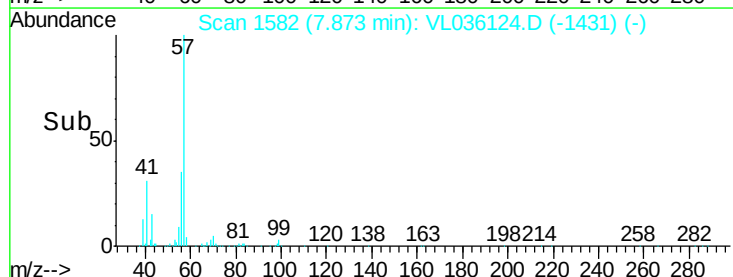
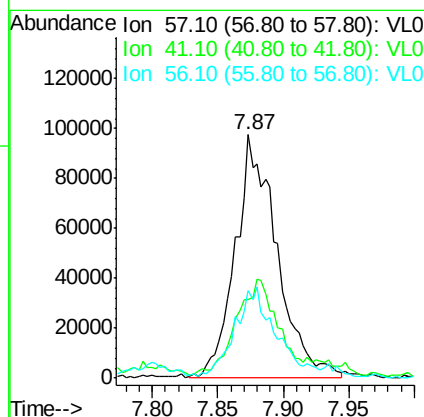
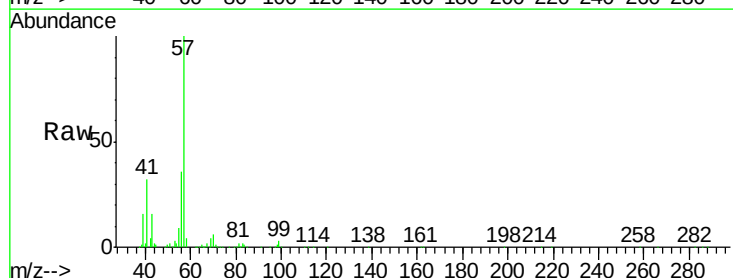
RT: 7.87 min Scan# 1582

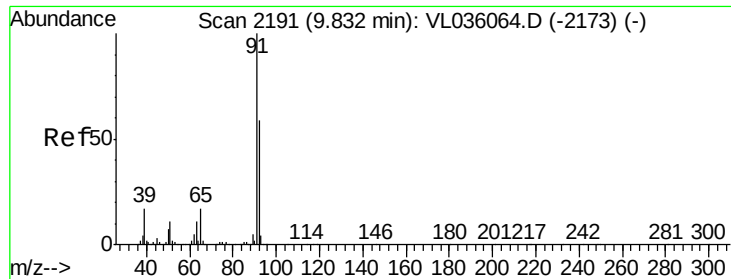
Delta R.T. -0.02 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Tgt Ion:	57	Resp:	215088
Ion Ratio		Lower	Upper
57	100		
41	47.1	28.9	43.3#
56	40.4	25.3	37.9#





#53

Toluene

Concen: 4.707 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL2

Tot Ion: 91 Resp: 1165164

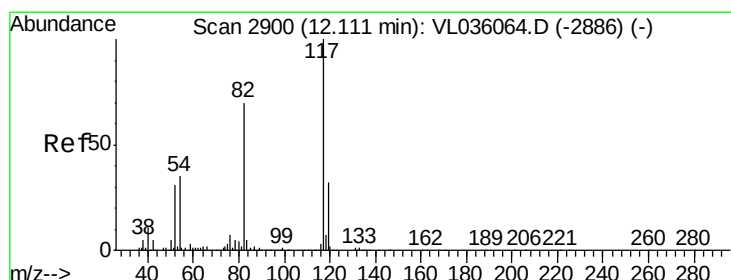
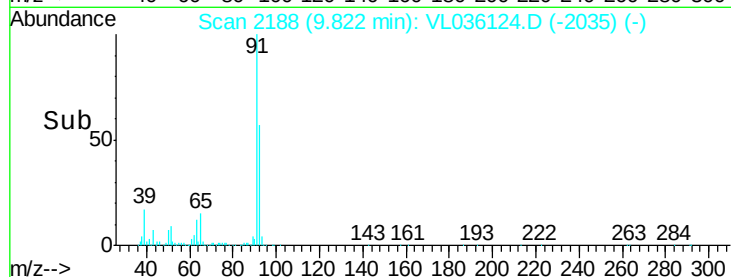
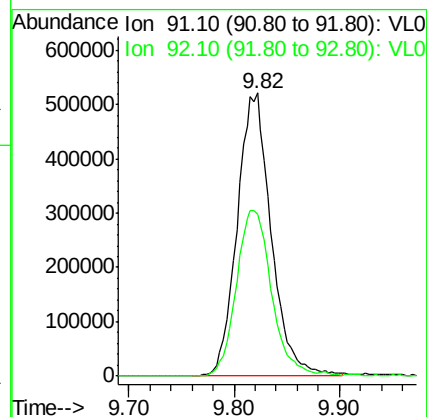
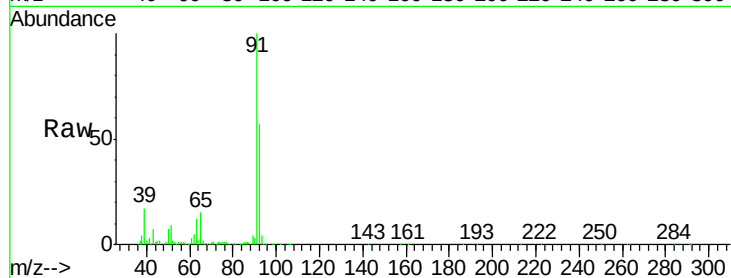
Ion Ratio Lower Upper

91 100

92 61.4 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

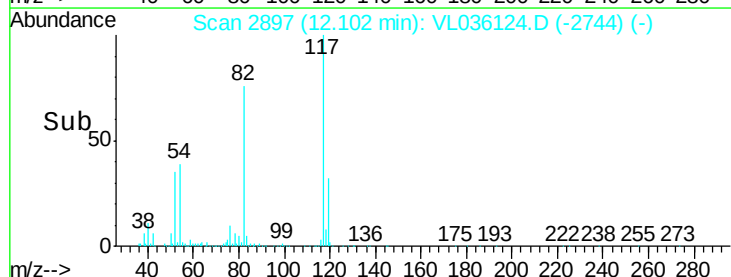
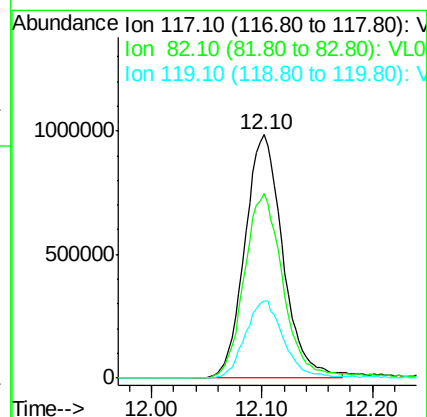
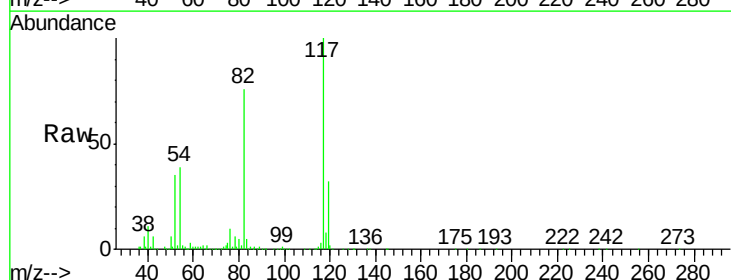
Tgt Ion: 117 Resp: 2347570

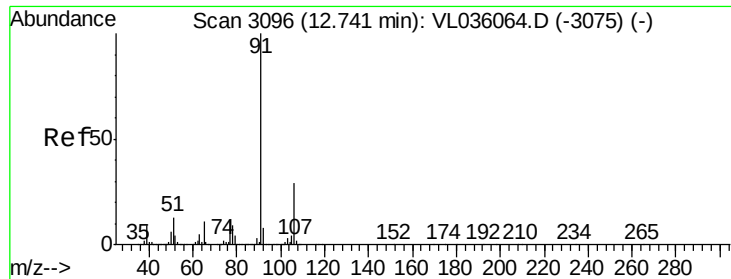
Ion Ratio Lower Upper

117 100

82 79.6 0.0 0.0#

119 32.7 0.0 0.0#





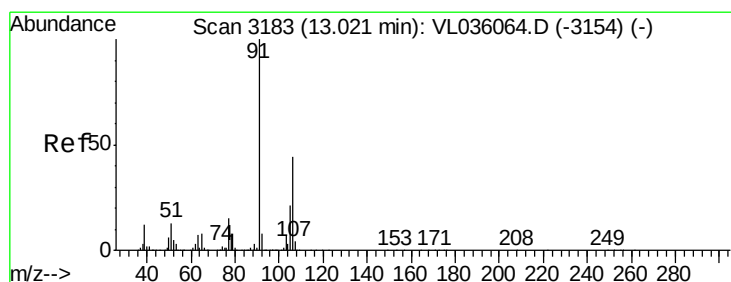
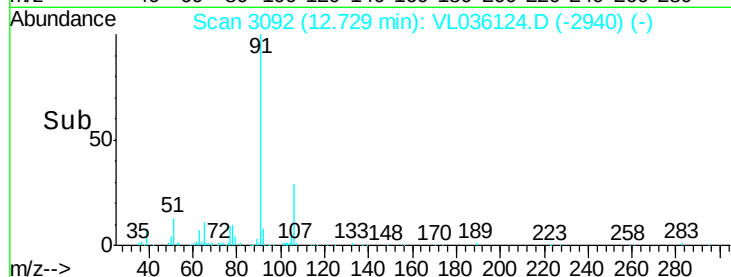
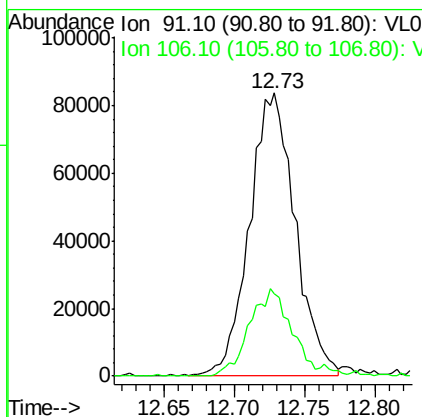
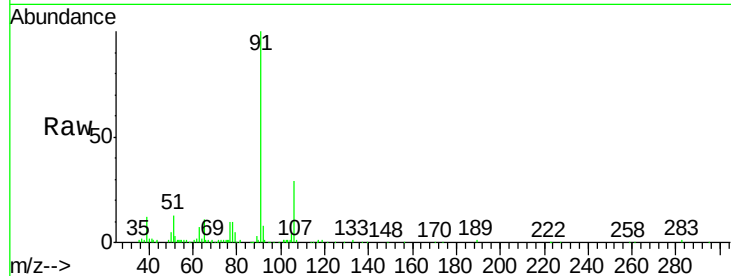
#58
Ethyl Benzene
Concen: 0.588 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.01 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL2

Tot Ion: 91 Resp: 189225
Ion Ratio Lower Upper
91 100
106 29.2 23.0 34.4

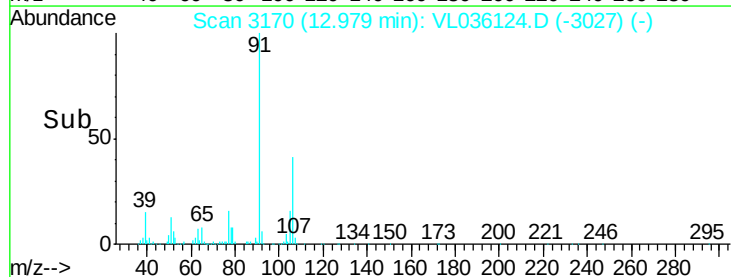
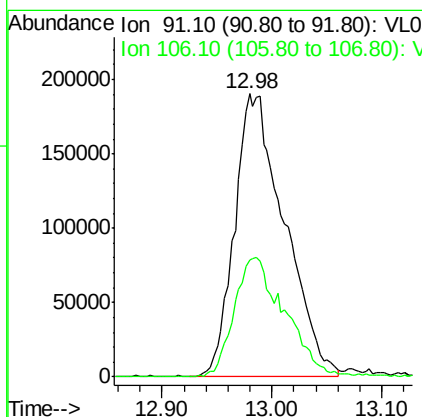
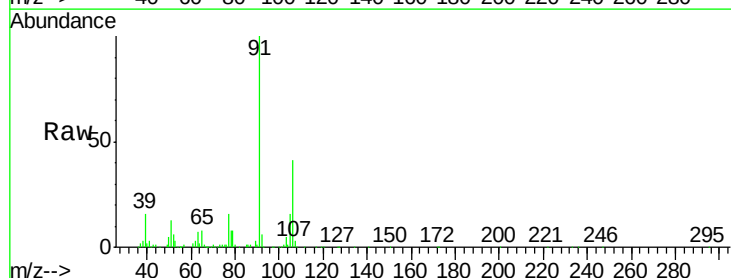
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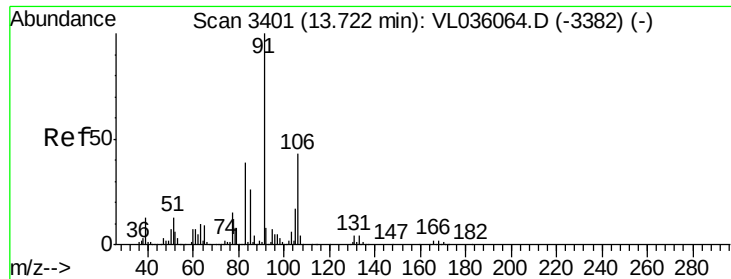
MMDadoda
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#59
m/p-Xylene
Concen: 2.214 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. -0.04 min
Lab File: VL036124.D
Acq: 9 Dec 2020 9:58

Tgt Ion: 91 Resp: 599910
Ion Ratio Lower Upper
91 100
106 43.1 33.6 50.4





#60

o-Xylene

Concen: 0.910 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.02 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Instrument :

MSVOA_L

ClientSampled :

IA-1DL2

Tot Ion: 91 Resp: 232389

Ion Ratio Lower Upper

91 100

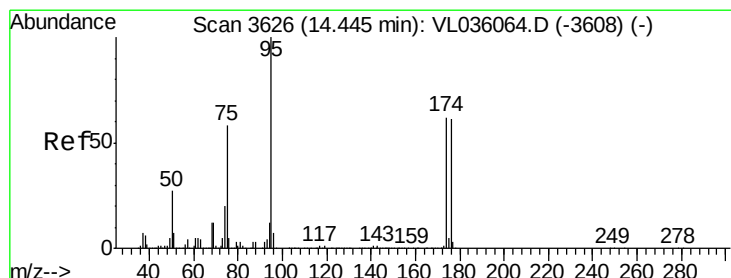
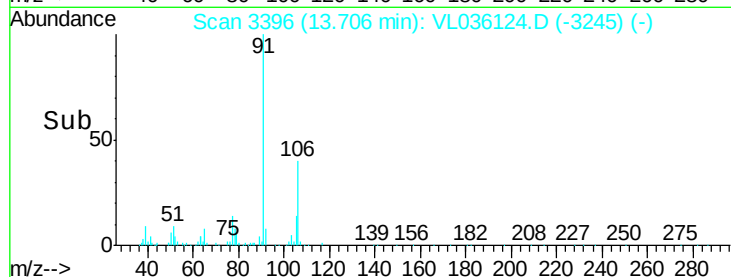
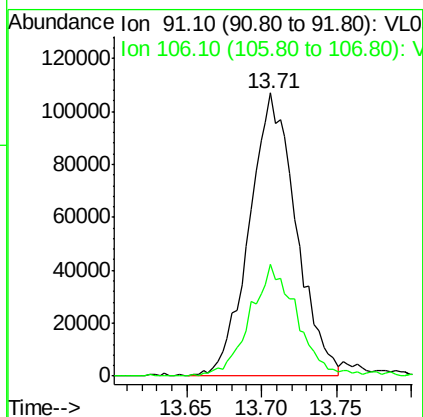
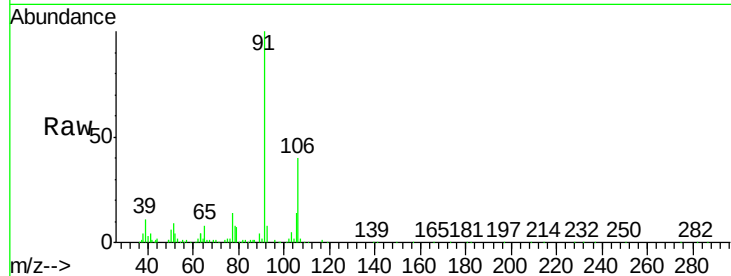
106 40.4 21.6 64.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.837 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

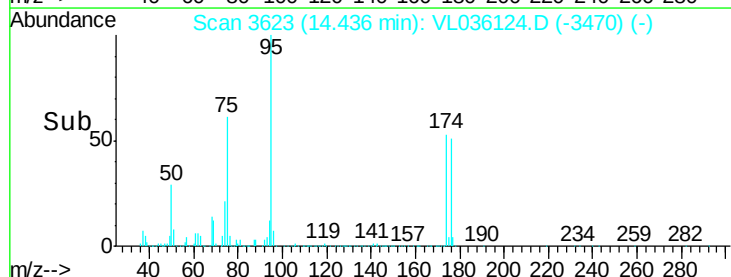
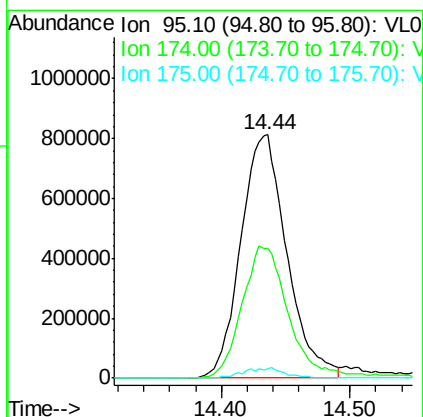
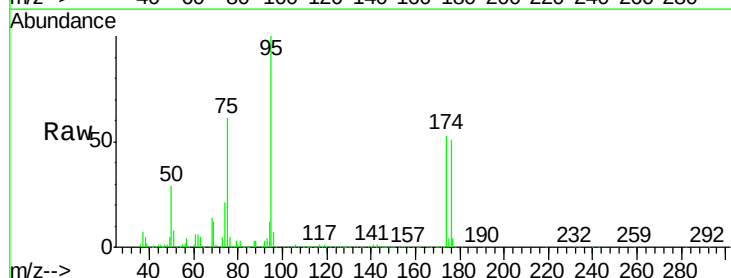
Tgt Ion: 95 Resp: 2020045

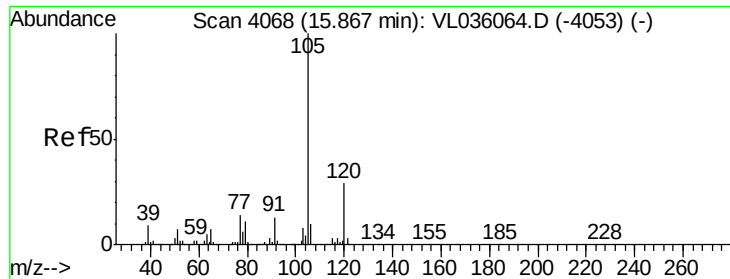
Ion Ratio Lower Upper

95 100

174 56.4 50.7 76.1

175 3.9 4.0 6.0#





#72

4-Ethyltoluene

Concen: 0.307 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL036124.D

Acq: 9 Dec 2020 9:58

Instrument :

MSVOA_L

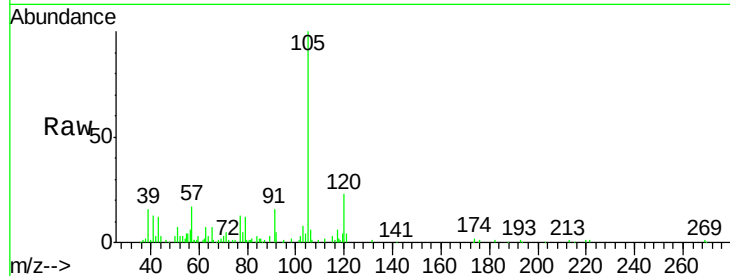
ClientSampleId :

IA-1DL2

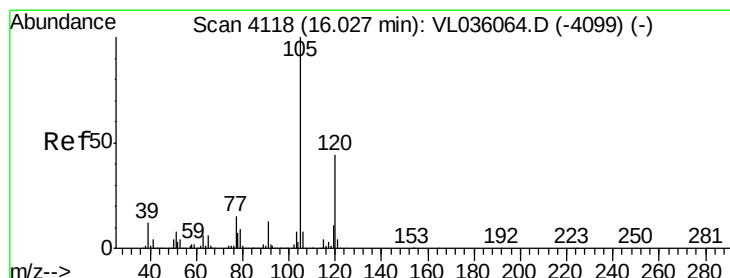
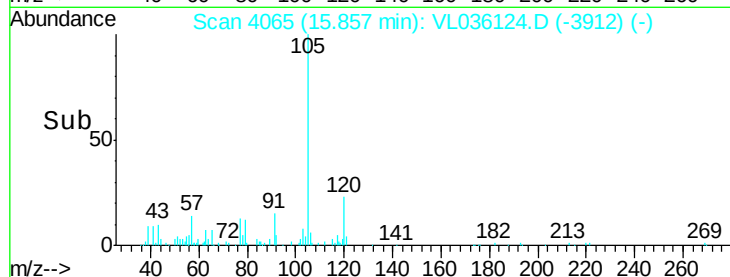
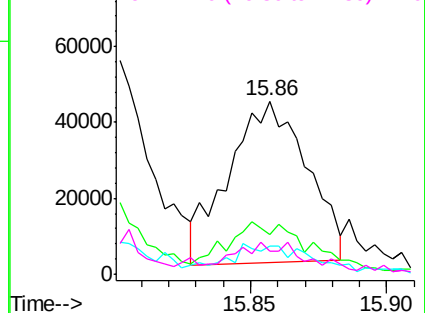
Tot Ion:	105	Resp:	85026
Ion Ratio	Lower	Upper	
105	100		
120	36.6	23.6	35.4#
91	21.2	11.4	17.0#
77	24.2	12.1	18.1#

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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.301 ppbv

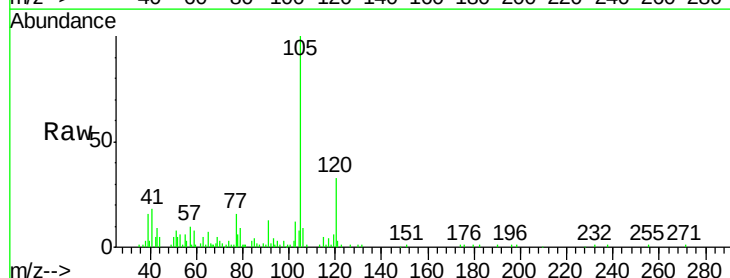
RT: 16.01 min Scan# 4113

Delta R.T. -0.02 min

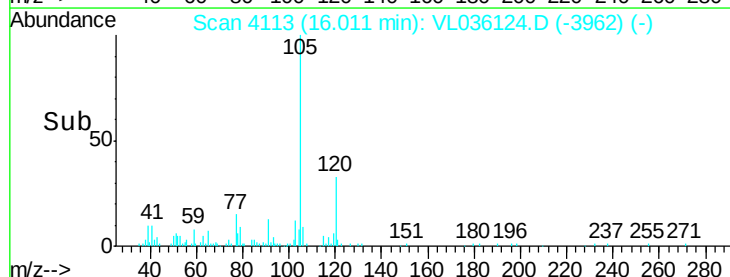
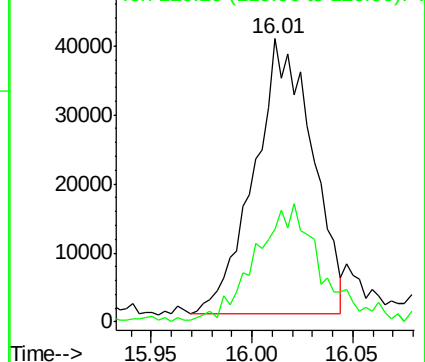
Lab File: VL036124.D

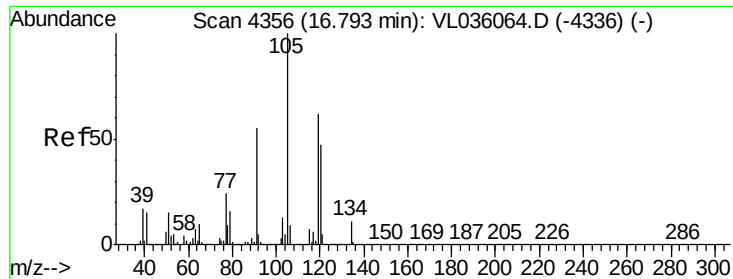
Acq: 9 Dec 2020 9:58

Tgt Ion:	105	Resp:	79451
Ion Ratio	Lower	Upper	
105	100		
120	33.3	35.4	53.2#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 1.065 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL036124.D
 Acq: 9 Dec 2020 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL2

Tot Ion:	105	Resp:	282401
Ion Ratio		Lower	Upper
105	100		
120	41.1	37.4	56.0
91	14.7	45.6	68.4#
77	18.8	19.4	29.2#

Manual Integrations
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