

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034766.D
 Acq On : 3 Mar 2020 16:29
 Operator : SY/AP
 Sample : L1704-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4

Manual Integrations
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 3/4/2020 4:49:11 PM

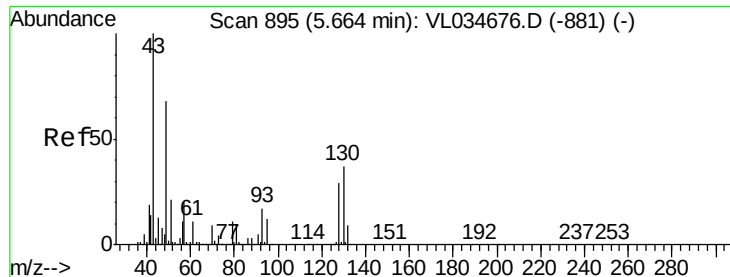
Quant Time: Mar 04 06:43:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	920024	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1922112	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	1932930	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1706291	10.77	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	40246m	0.277	ppbv	
3) Chlorodifluoromethane	2.96	51	24487m	0.247	ppbv	
4) Chloromethane	3.12	50	32470m	0.584	ppbv	
9) Propene	3.00	41	139304m	3.356	ppbv	
10) Heptane	8.16	43	193596	1.812	ppbv	99
11) Trichlorofluoromethane	3.94	101	42838	0.337	ppbv	97
13) Ethanol	3.59	45	537928	41.028	ppbv	96
15) Acetone	3.83	43	4774715	45.544	ppbv	95
17) tert-Butyl alcohol	4.30	59	74254m	0.924	ppbv	
19) Isopropyl Alcohol	3.97	45	121630	1.948	ppbv #	94
20) Methylene Chloride	4.34	84	178677	4.583	ppbv	98
23) Vinyl Acetate	5.08	43	367842	2.581	ppbv #	94
26) Hexane	5.70	57	365130	4.269	ppbv #	44
34) 2-Butanone	5.25	43	257231	2.126	ppbv	96
36) Benzene	6.92	78	52097	0.314	ppbv #	87
41) Tetrahydrofuran	6.08	42	80031	1.253	ppbv	98
53) Toluene	9.85	91	1895420	10.735	ppbv	100
58) Ethyl Benzene	12.78	91	66773m	0.286	ppbv	
59) m/p-Xylene	13.02	91	248358m	1.218	ppbv	
60) o-Xylene	13.76	91	84703m	0.418	ppbv	
74) 1,2,4-Trimethylbenzene	16.83	105	88616	0.370	ppbv #	71

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Instrument :

MSVOA_L

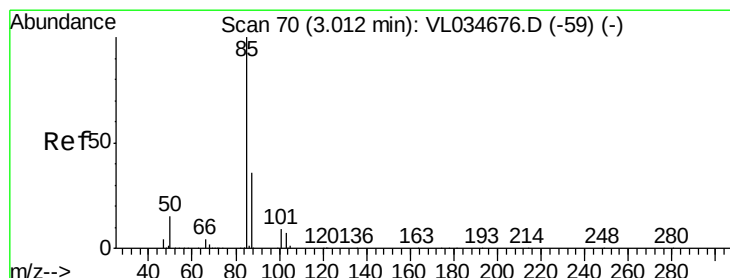
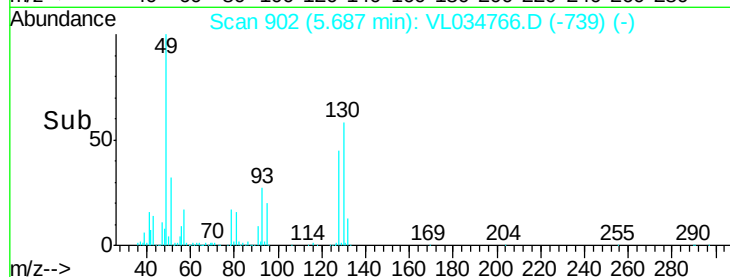
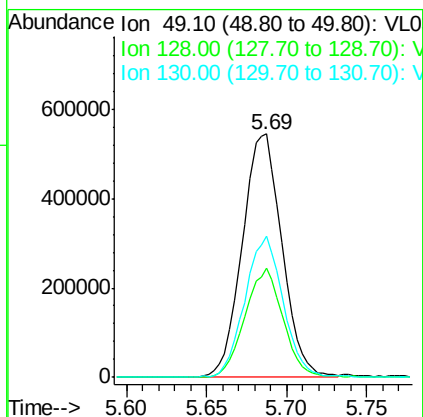
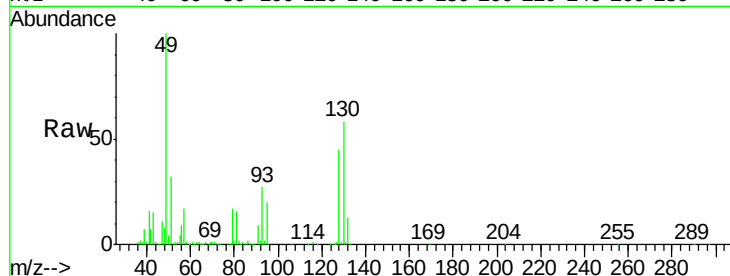
ClientSampleId :

IA-6-4

Tot Ion:	49	Resp:	920024
Ion	Ratio	Lower	Upper
49	100		
128	43.4	21.6	65.0
130	56.6	27.7	83.1

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#2

Dichlorodifluoromethane

Concen: 0.277 ppbv m

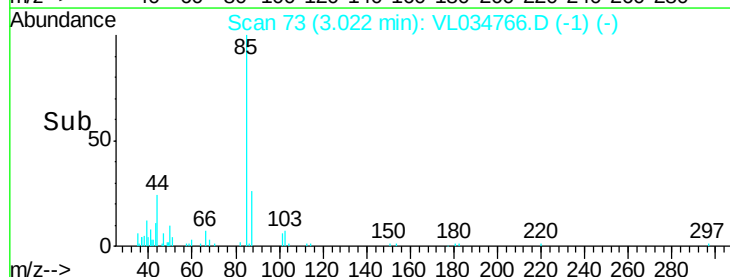
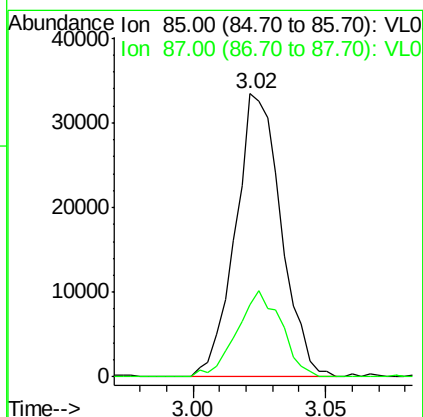
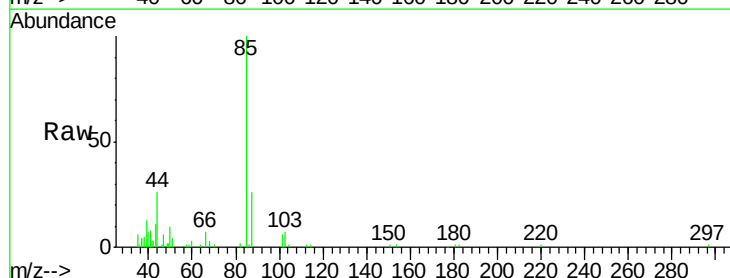
RT: 3.02 min Scan# 73

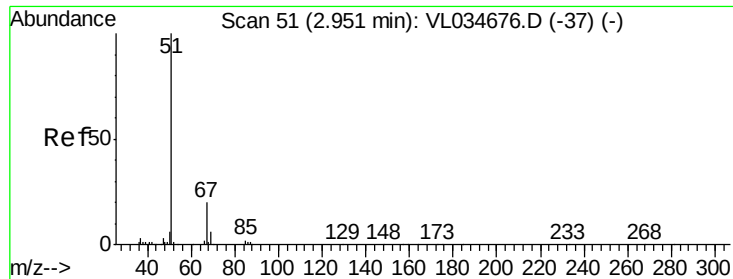
Delta R.T. 0.01 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Tgt Ion:	85	Resp:	40246
Ion	Ratio	Lower	Upper
85	100		
87	25.6	29.2	43.8#





#3

Chlorodifluoromethane

Concen: 0.247 ppbv m

RT: 2.96 min Scan# 55

Delta R.T. 0.01 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Instrument :

MSVOA_L

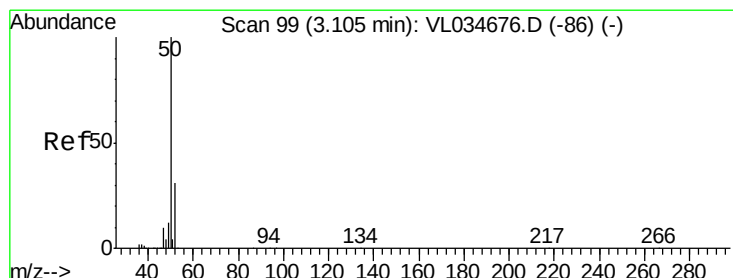
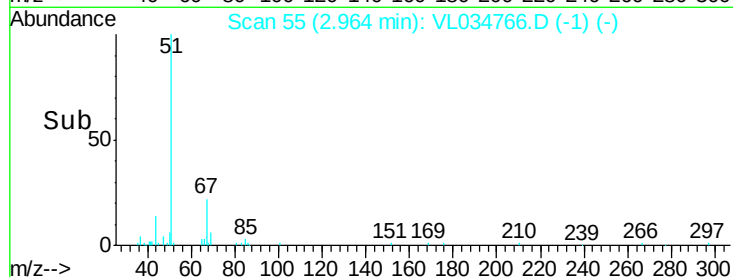
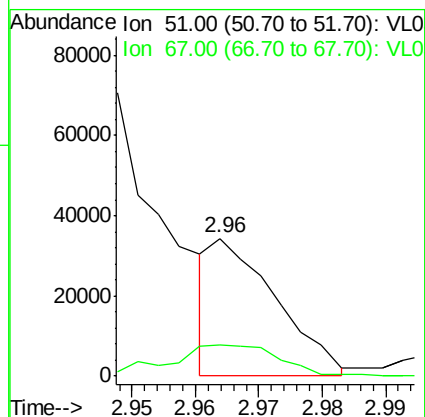
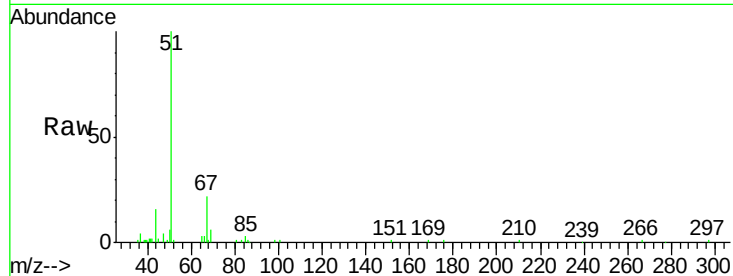
ClientSampled :

IA-6-4

Tot Ion: 51 Resp: 24487
 Ion Ratio Lower Upper
 51 100
 67 38.6 15.5 23.3#

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#4

Chloromethane

Concen: 0.584 ppbv m

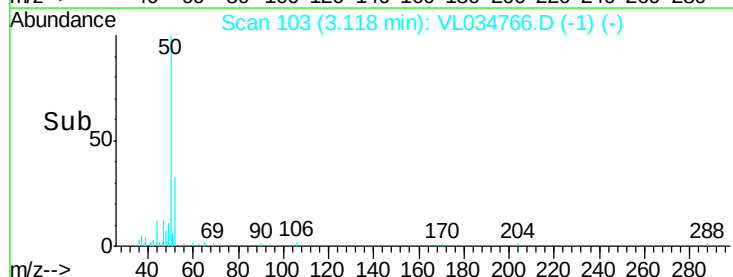
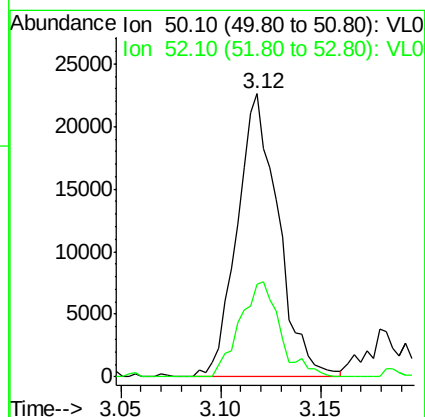
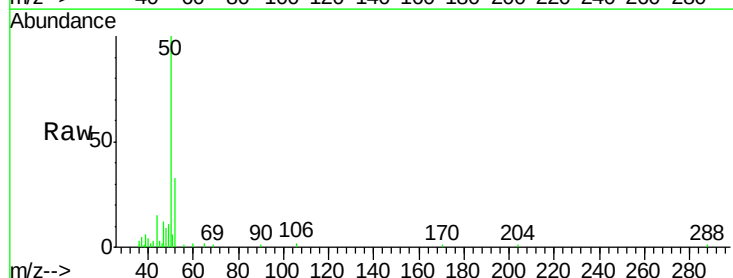
RT: 3.12 min Scan# 103

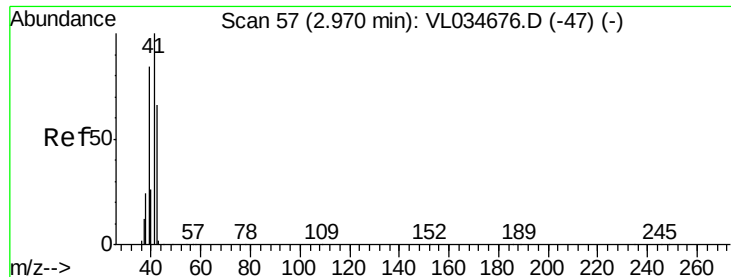
Delta R.T. 0.01 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Tgt Ion: 50 Resp: 32470
 Ion Ratio Lower Upper
 50 100
 52 32.8 25.0 37.4





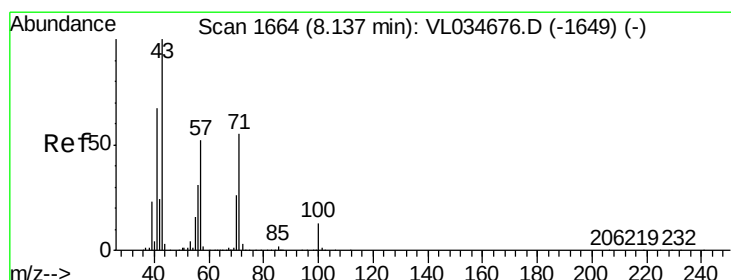
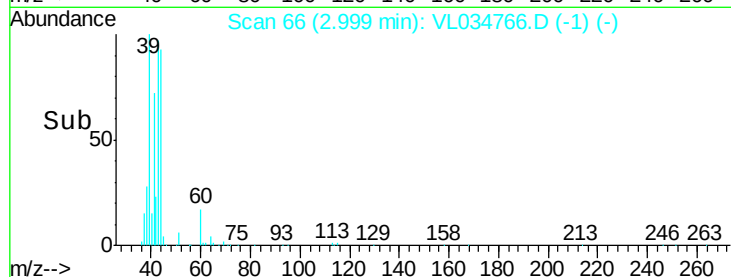
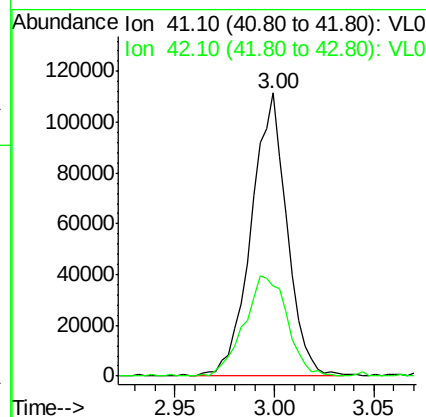
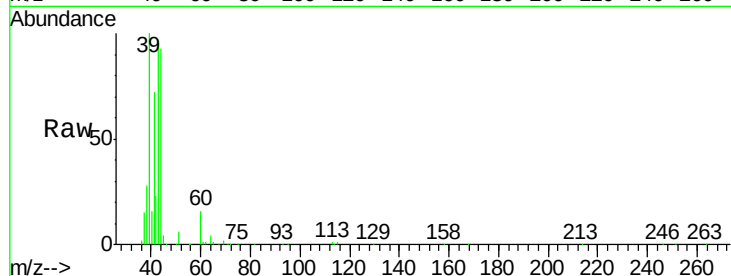
#9
 Propene
 Concen: 3.356 ppbv m
 RT: 3.00 min Scan# 66
 Delta R.T. 0.03 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4

Tot Ion	Ratio	Lower	Upper
41	100		
42	72.1	54.9	82.3

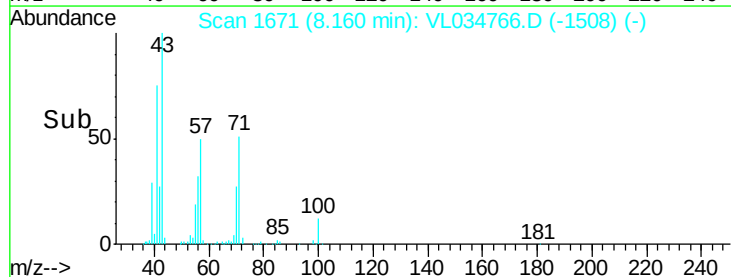
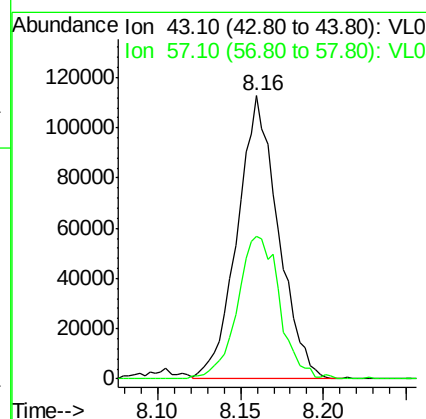
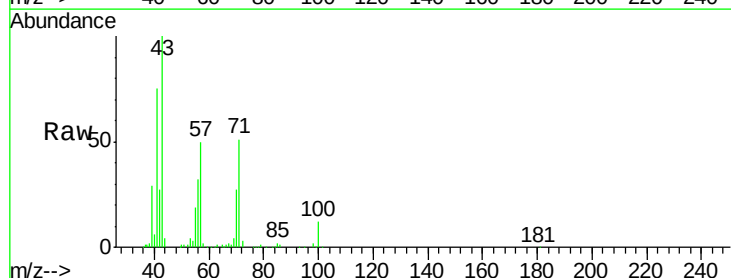
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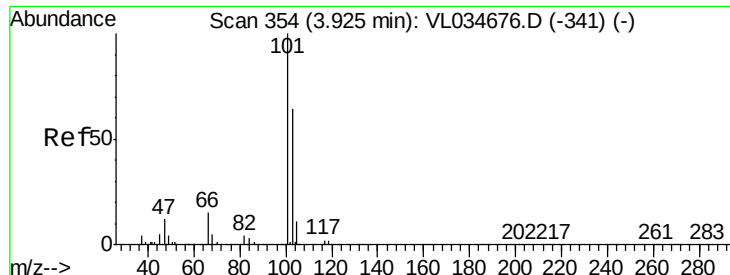
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#10
 Heptane
 Concen: 1.812 ppbv
 RT: 8.16 min Scan# 1671
 Delta R.T. 0.02 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Tgt Ion	Ratio	Lower	Upper
43	100		
57	52.0	41.0	61.6





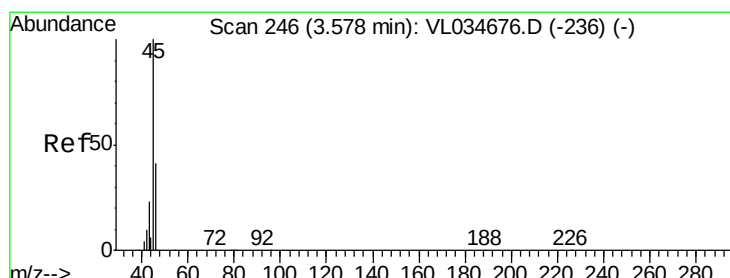
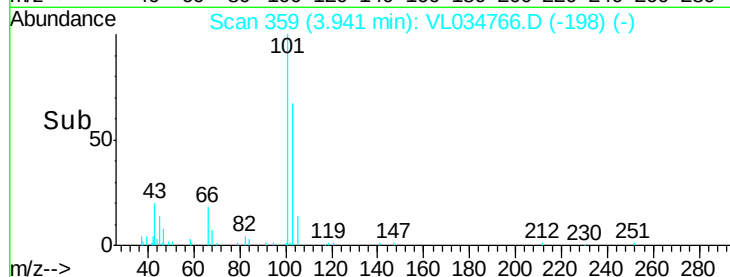
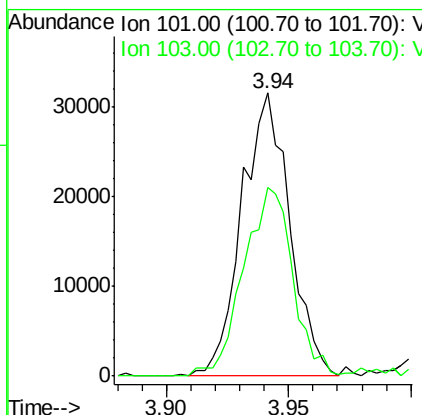
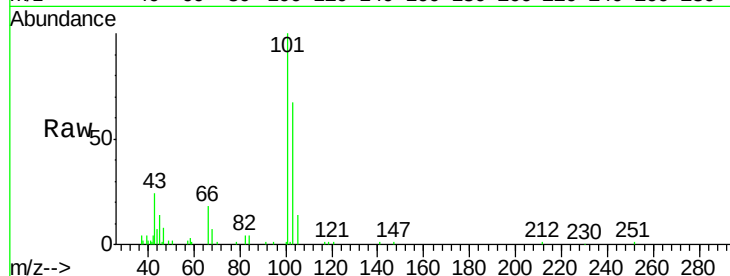
#11
 Trichlorofluoromethane
 Concen: 0.337 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.02 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.2	76.8

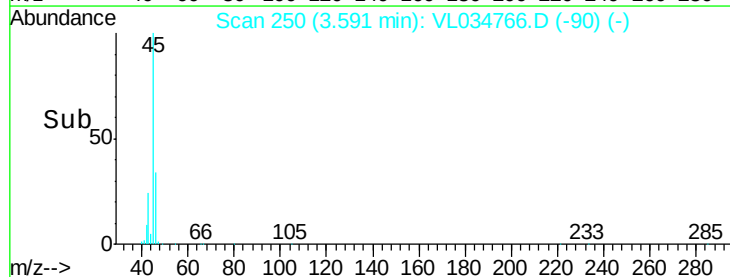
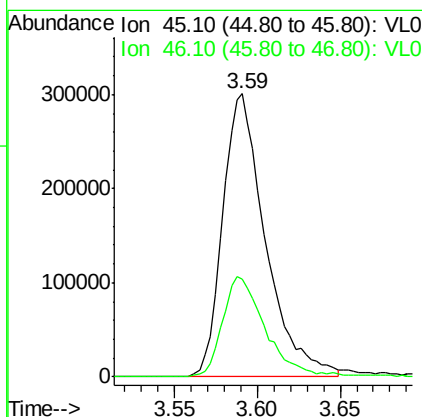
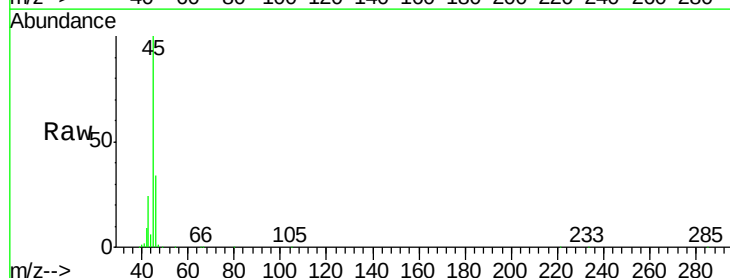
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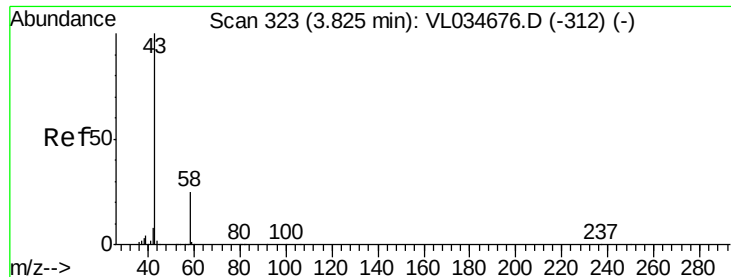
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#13
 Ethanol
 Concen: 41.028 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. 0.01 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.2	15.4	61.4





#15

Acetone

Concen: 45.544 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Instrument :

MSVOA_L

ClientSampleId :

IA-6-4

Tot Ion: 43 Resp: 4774715

Ion Ratio Lower Upper

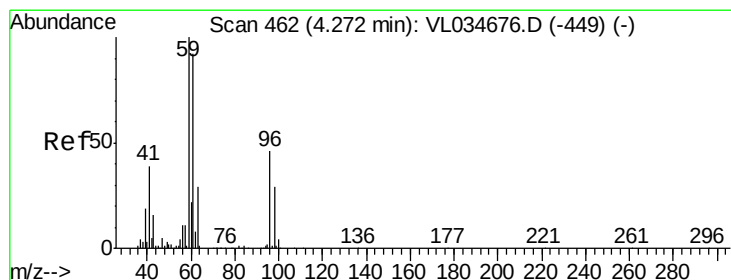
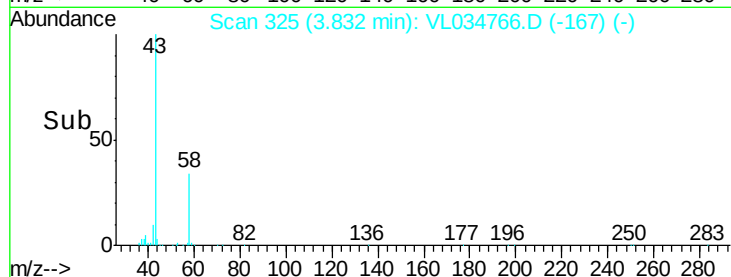
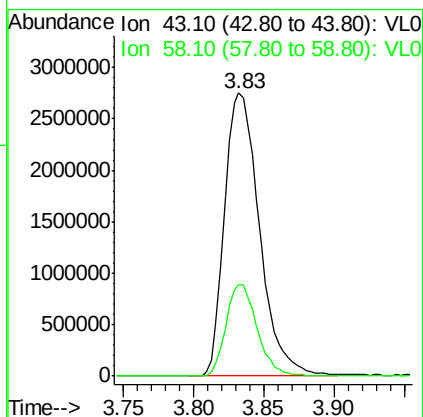
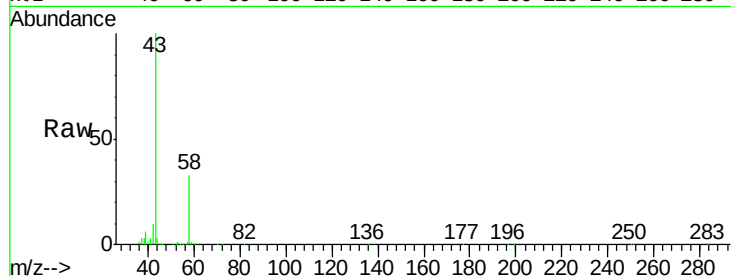
43 100

58 29.1 21.4 32.0

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#17

tert-Butyl alcohol

Concen: 0.924 ppbv m

RT: 4.30 min Scan# 470

Delta R.T. 0.03 min

Lab File: VL034766.D

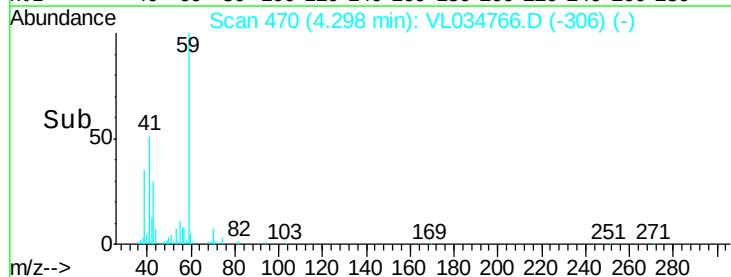
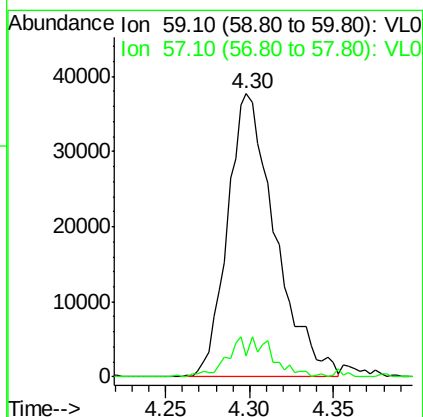
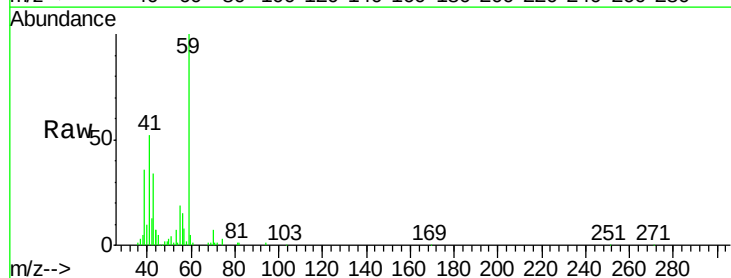
Acq: 3 Mar 2020 16:29

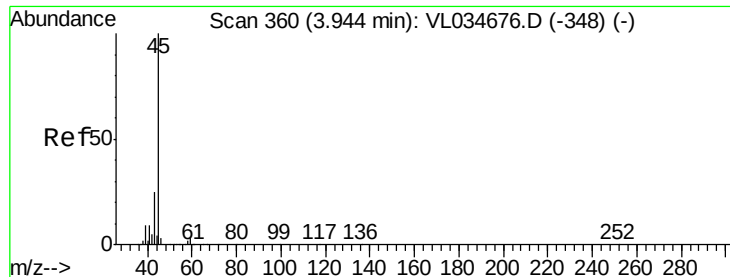
Tgt Ion: 59 Resp: 74254

Ion Ratio Lower Upper

59 100

57 12.8 8.8 13.2





#19

Isopropyl Alcohol

Concen: 1.948 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Instrument :

MSVOA_L

ClientSampleId :

IA-6-4

Tot Ion: 45 Resp: 121630

Ion Ratio Lower Upper

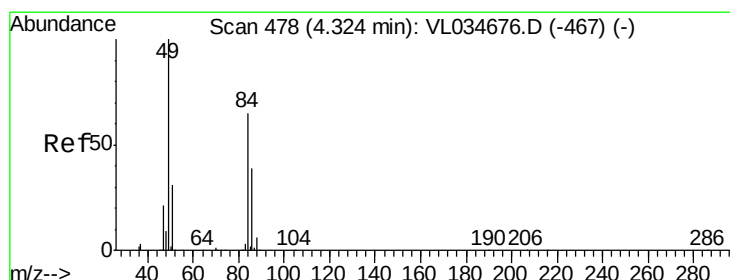
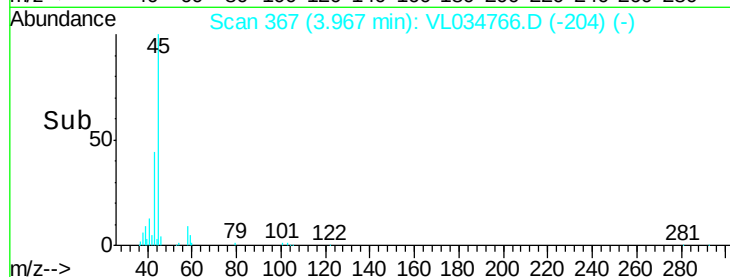
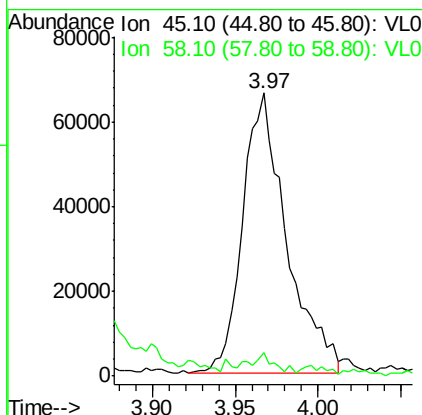
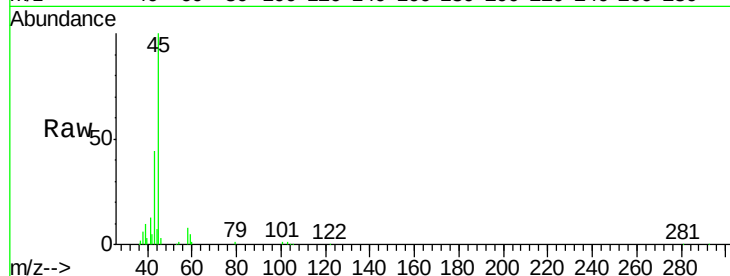
45 100

58 0.0 1.8 2.6#

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#20

Methylene Chloride

Concen: 4.583 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Tgt Ion: 84 Resp: 178677

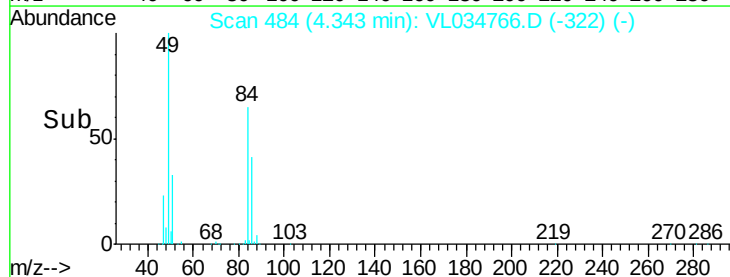
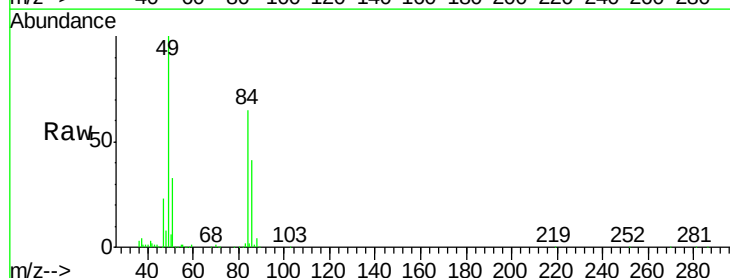
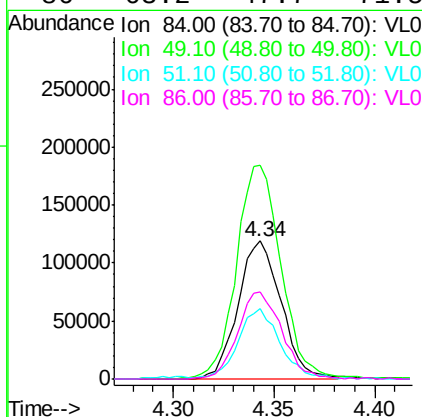
Ion Ratio Lower Upper

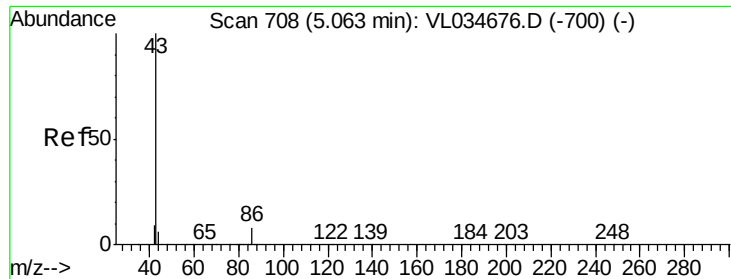
84 100

49 154.1 122.8 184.2

51 50.7 38.6 58.0

86 63.2 47.7 71.5





#23

Vinyl Acetate

Concen: 2.581 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.02 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Instrument :

MSVOA_L

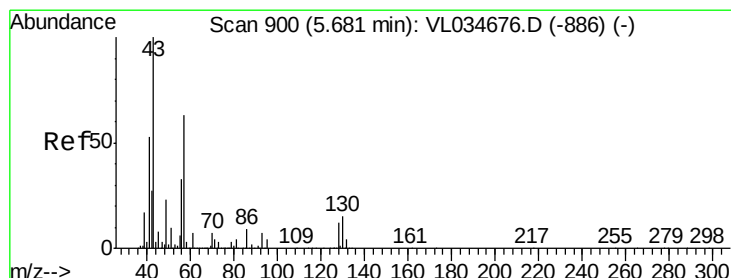
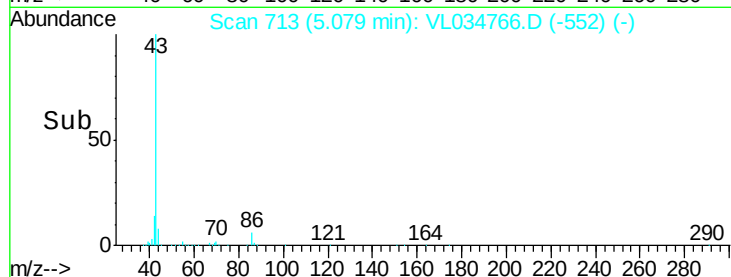
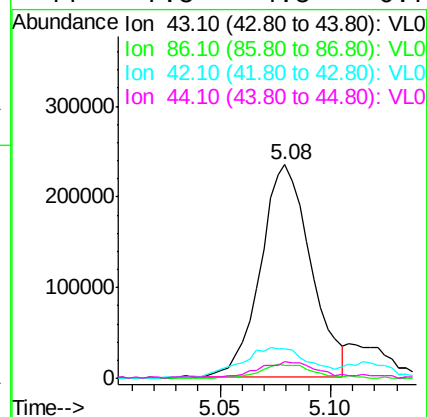
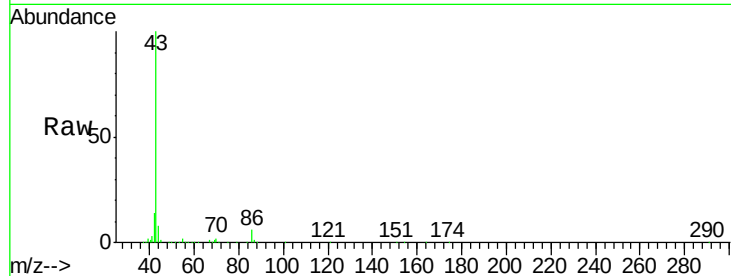
ClientSampleId :

IA-6-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		367842		
86	6.3	6.0	9.0		
42	12.8	8.0	12.0		
44	7.5	4.5	6.7		

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#26

Hexane

Concen: 4.269 ppbv

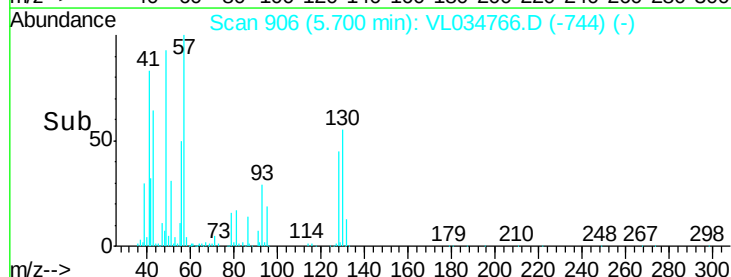
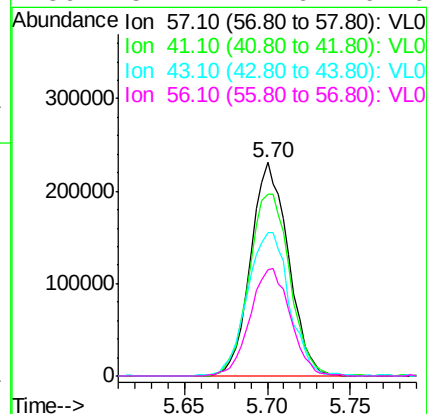
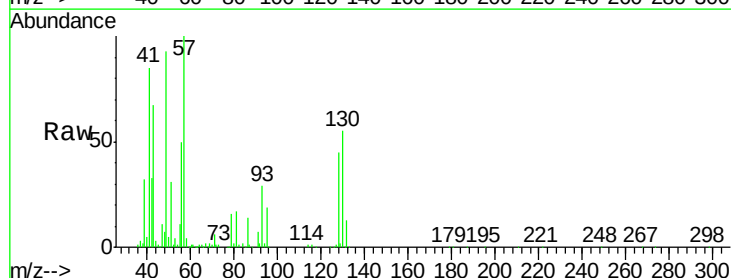
RT: 5.70 min Scan# 906

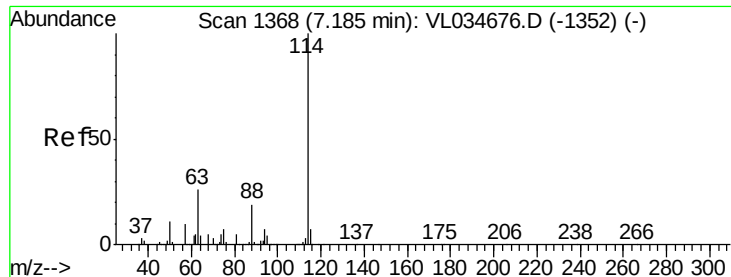
Delta R.T. 0.02 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		365130		
41	92.8	70.3	105.5		
43	76.4	177.0	265.4		
56	54.1	42.6	64.0		





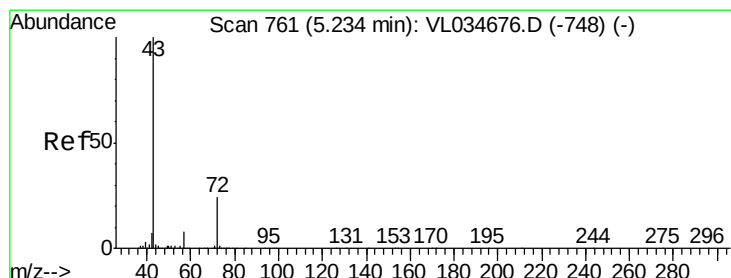
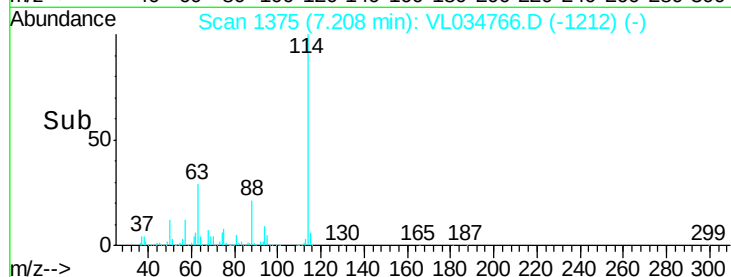
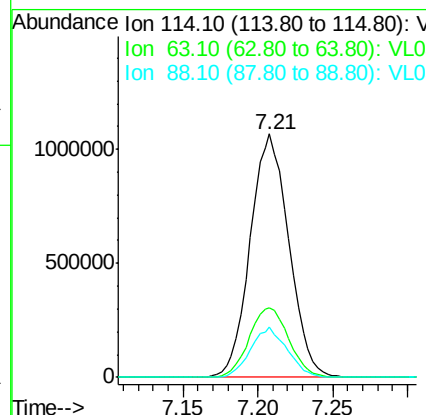
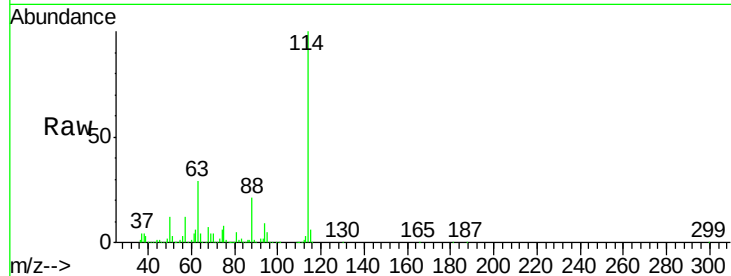
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.02 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.4	22.9	34.3
88	19.6	15.8	23.6

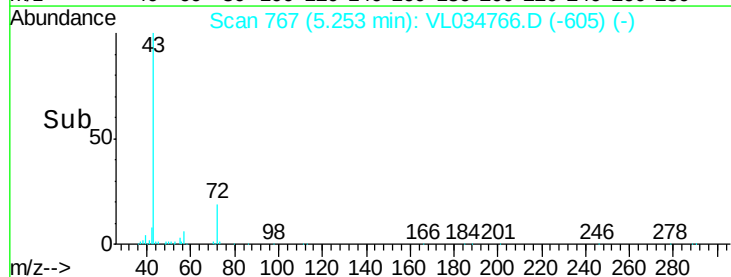
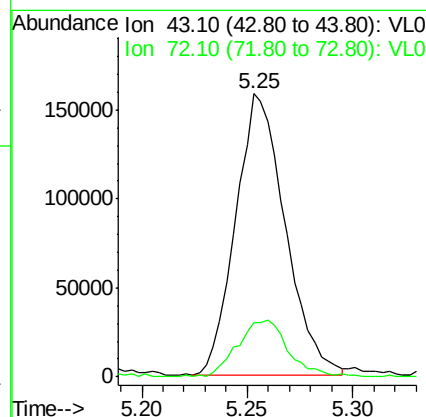
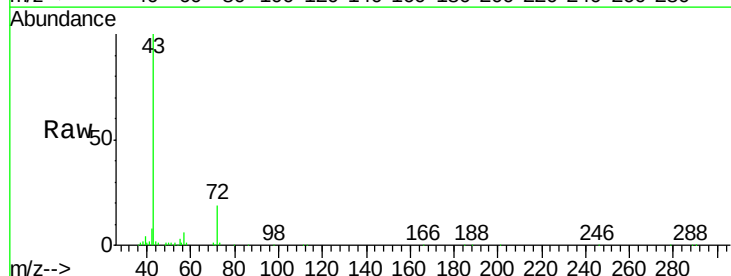
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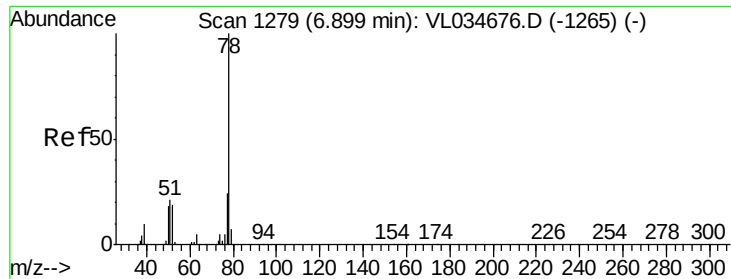
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#34
 2-Butanone
 Concen: 2.126 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.2	27.2





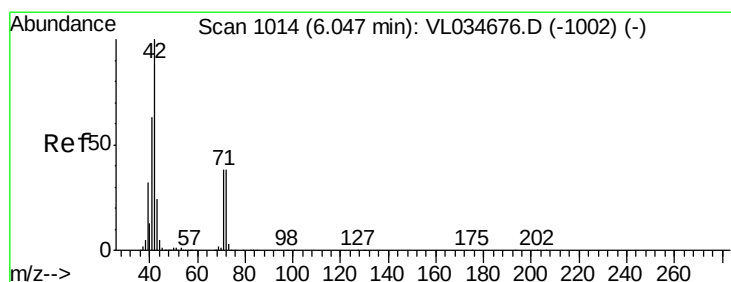
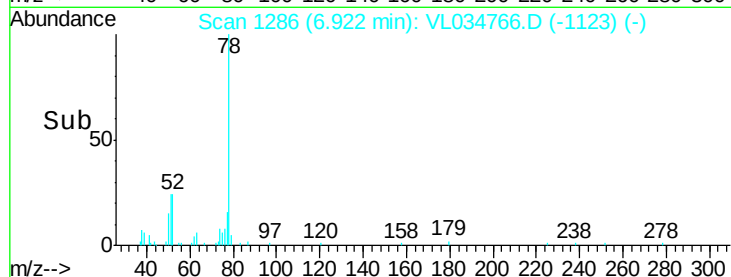
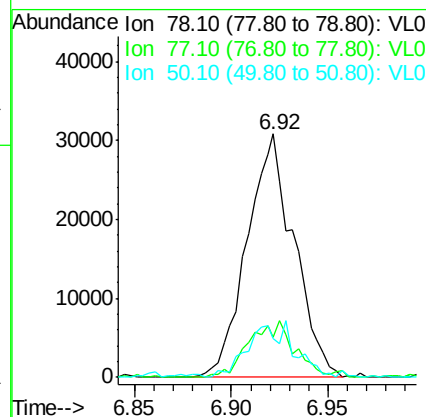
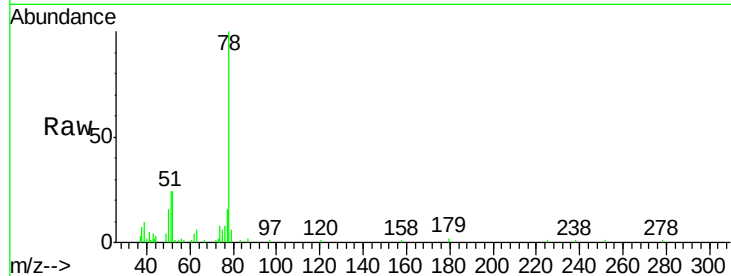
#36
Benzene
Concen: 0.314 ppbv
RT: 6.92 min Scan# 1286
Delta R.T. 0.02 min
Lab File: VL034766.D
Acq: 3 Mar 2020 16:29

Instrument :
MSVOA_L
ClientSampleId :
IA-6-4

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.3	19.5	29.3#
50	14.7	14.6	21.8

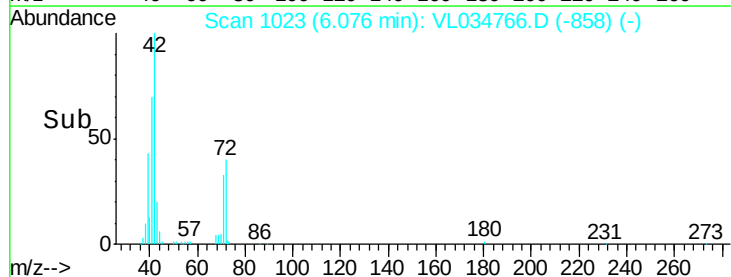
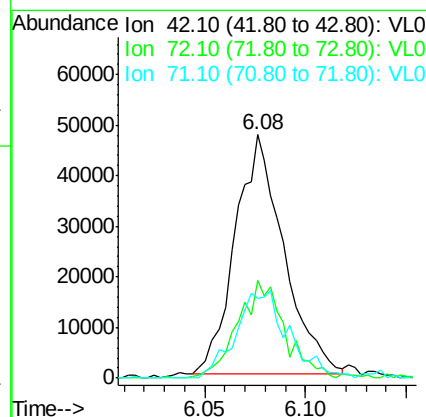
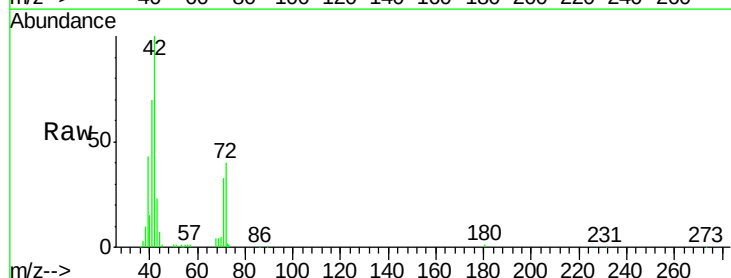
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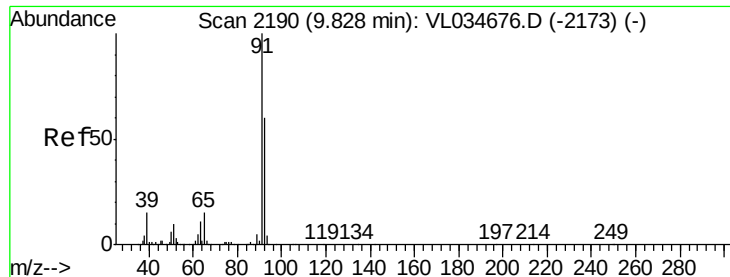
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#41
Tetrahydrofuran
Concen: 1.253 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. 0.03 min
Lab File: VL034766.D
Acq: 3 Mar 2020 16:29

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.7	47.5
71	40.2	30.7	46.1





#53

Toluene

Concen: 10.735 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. 0.03 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

Instrument :

MSVOA_L

ClientSampled :

IA-6-4

Tot Ion: 91 Resp: 1895420

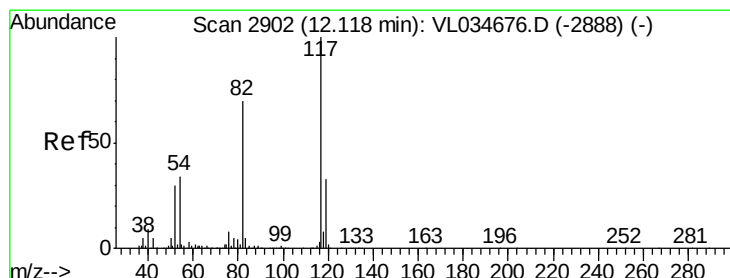
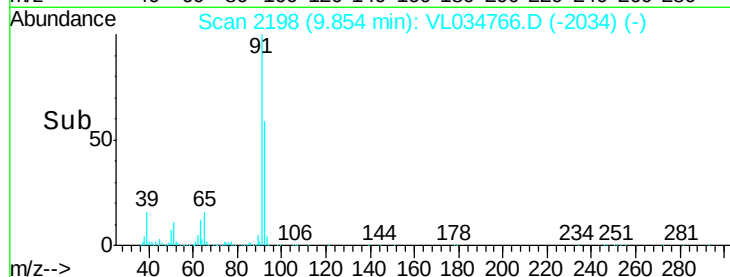
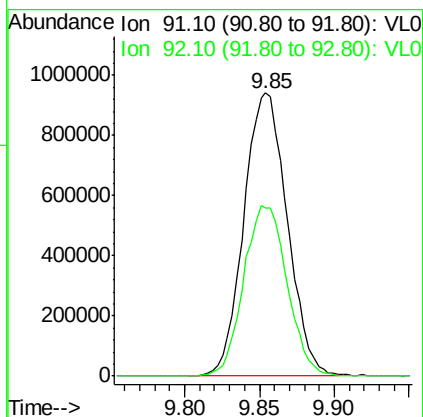
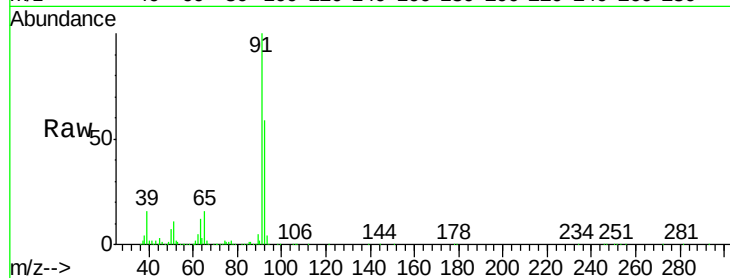
Ion Ratio Lower Upper

91 100

92 60.5 48.5 72.7

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2910

Delta R.T. 0.03 min

Lab File: VL034766.D

Acq: 3 Mar 2020 16:29

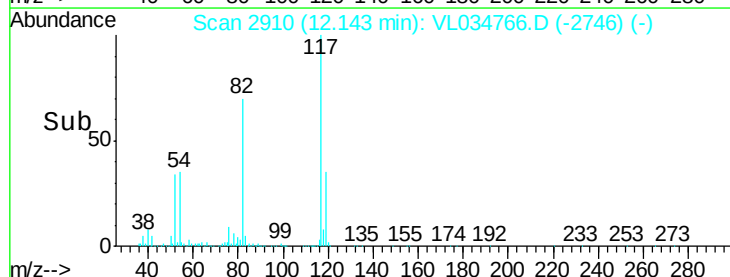
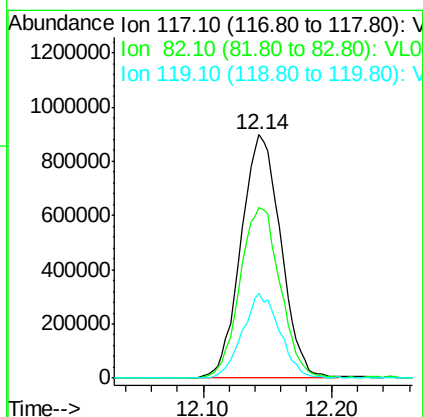
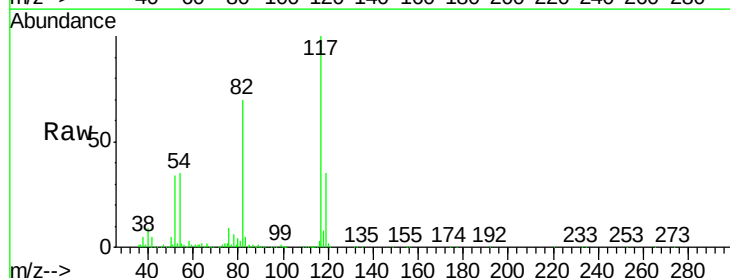
Tgt Ion: 117 Resp: 1932930

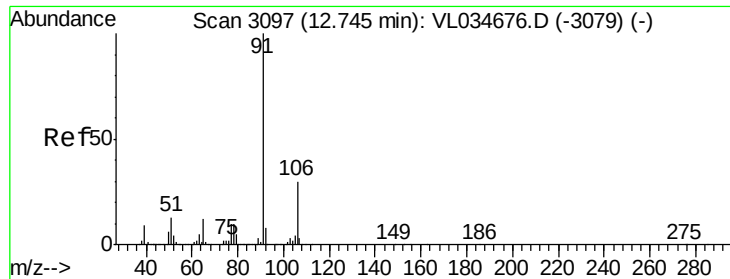
Ion Ratio Lower Upper

117 100

82 71.6 54.1 81.1

119 32.9 27.6 41.4





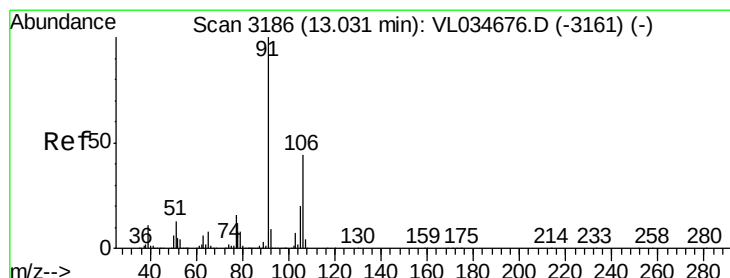
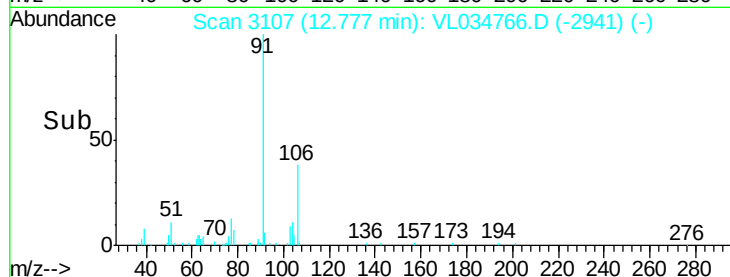
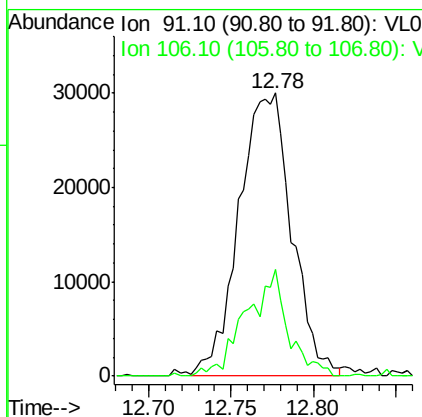
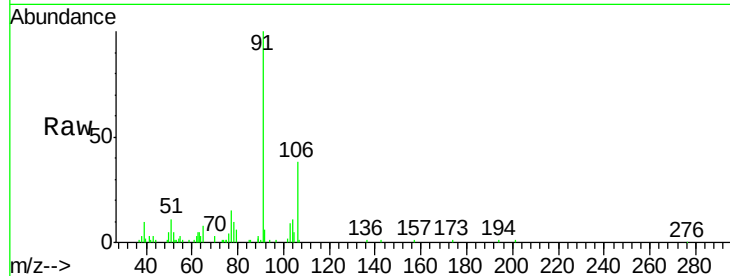
#58
Ethyl Benzene
Concen: 0.286 ppbv m
RT: 12.78 min Scan# 3107
Delta R.T. 0.03 min
Lab File: VL034766.D
Acq: 3 Mar 2020 16:29

Instrument :
MSVOA_L
ClientSampled :
IA-6-4

Tot Ion: 91 Resp: 66773
Ion Ratio Lower Upper
91 100
106 37.8 24.0 36.0#

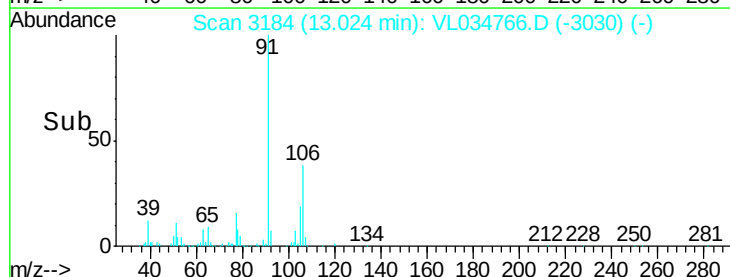
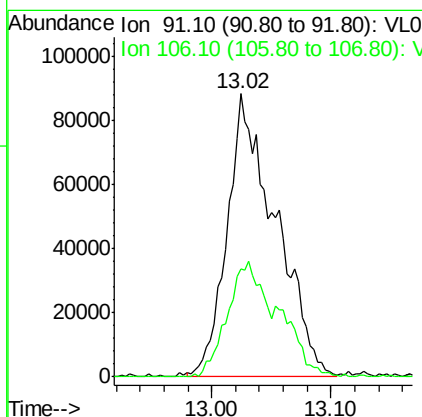
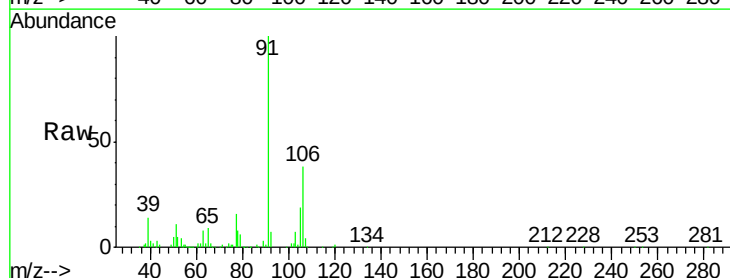
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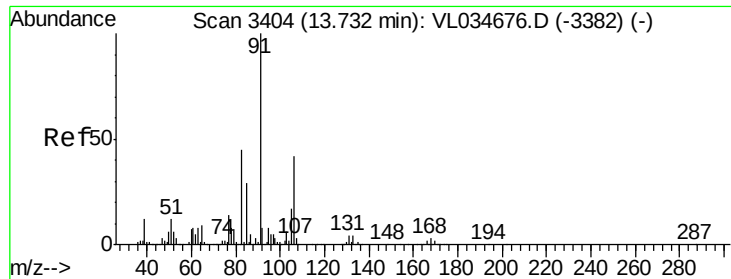
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#59
m/p-Xylene
Concen: 1.218 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.01 min
Lab File: VL034766.D
Acq: 3 Mar 2020 16:29

Tgt Ion: 91 Resp: 248358
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#





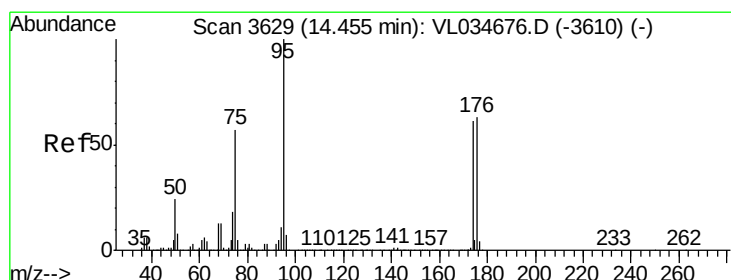
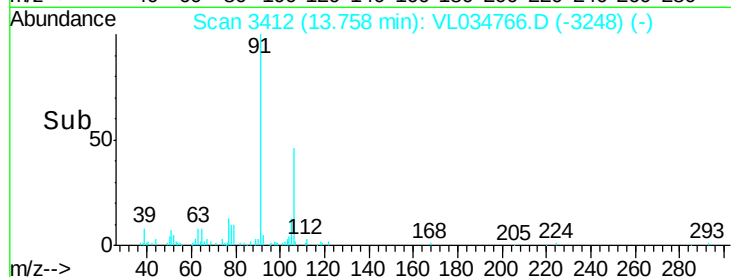
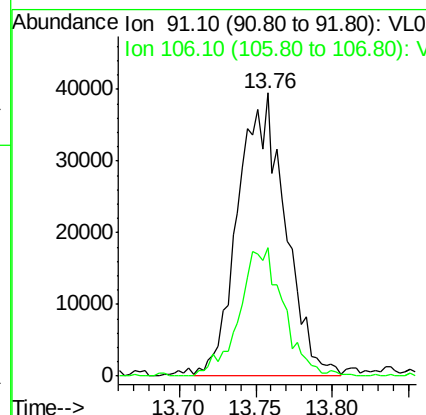
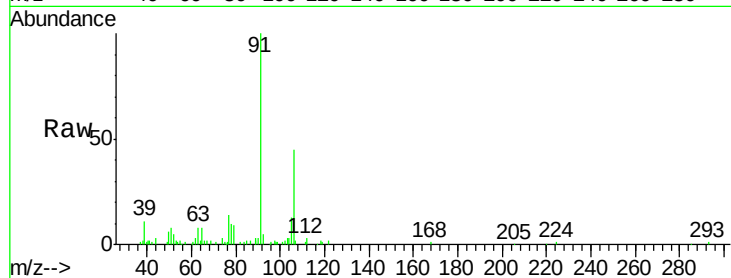
#60
o-Xylene
Concen: 0.418 ppbv m
RT: 13.76 min Scan# 3412
Delta R.T. 0.03 min
Lab File: VL034766.D
Acq: 3 Mar 2020 16:29

Instrument :
MSVOA_L
ClientSampled :
IA-6-4

Tot Ion: 91 Resp: 84703
Ion Ratio Lower Upper
91 100
106 42.4 21.9 65.5

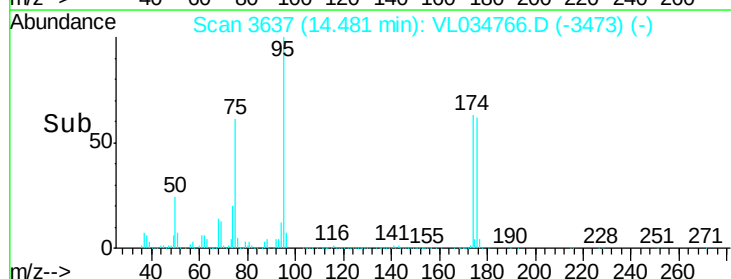
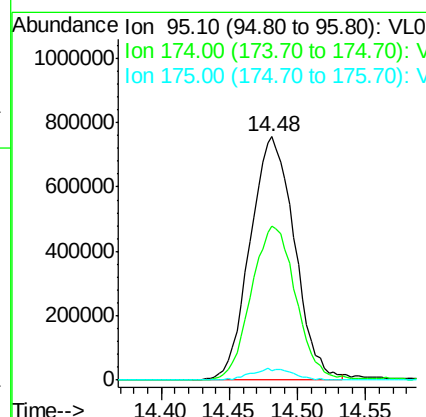
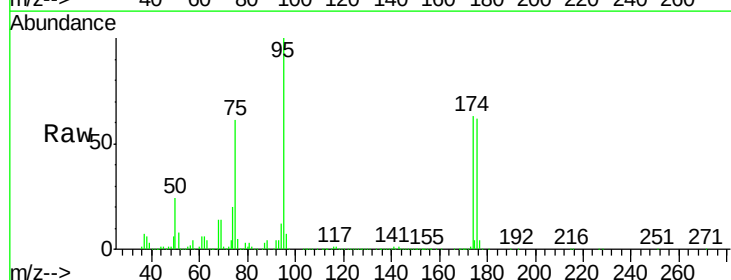
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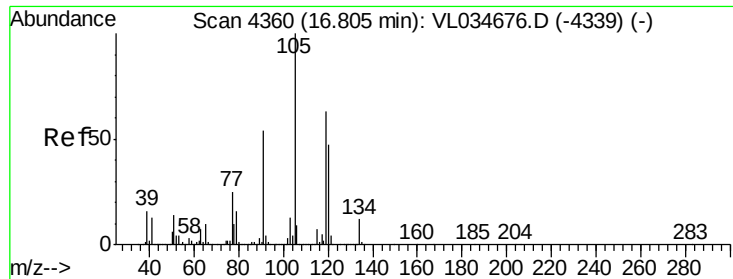
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.766 ppbv
RT: 14.48 min Scan# 3637
Delta R.T. 0.03 min
Lab File: VL034766.D
Acq: 3 Mar 2020 16:29

Tgt Ion: 95 Resp: 1706291
Ion Ratio Lower Upper
95 100
174 64.8 50.7 76.1
175 4.5 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.370 ppbv
 RT: 16.83 min Scan# 4368
 Delta R.T. 0.03 min
 Lab File: VL034766.D
 Acq: 3 Mar 2020 16:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	42.9	37.9	56.9
91	17.0	43.9	65.9#
77	14.4	20.3	30.5#

Manual Integrations
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