

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036542.D
 Acq On : 29 Mar 2021 16:48
 Operator : SY/AP
 Sample : M1760-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-5-TEACHERS-WORK-RM

Manual Integrations
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 3/30/2021 7:44:09 PM

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Quant Time: Mar 30 11:23:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1574004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3436298	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3111758	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2497546	10.07	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	59279	0.231	ppbv	89
4) Chloromethane	3.14	50	48436	0.466	ppbv	90
9) Propene	3.01	41	152564m	1.627	ppbv	
10) Heptane	8.12	43	156091	0.654	ppbv	94
11) Trichlorofluoromethane	3.94	101	54122	0.207	ppbv	86
13) Ethanol	3.62	45	8774776	785.967	ppbv	95
15) Acetone	3.84	43	2035598	13.140	ppbv	97
17) tert-Butyl alcohol	4.32	59	35194m	0.261	ppbv	
19) Isopropyl Alcohol	3.98	45	2097086	24.608	ppbv #	96
20) Methylene Chloride	4.34	84	648452	8.940	ppbv	98
26) Hexane	5.68	57	1050832	6.148	ppbv #	51
34) 2-Butanone	5.24	43	88460	0.527	ppbv #	86
35) Carbon Tetrachloride	7.01	117	17349m	0.066	ppbv	
36) Benzene	6.89	78	89158m	0.281	ppbv	
52) Tetrachloroethene	11.21	164	5207m	0.045	ppbv	
53) Toluene	9.80	91	702397	2.081	ppbv	100
58) Ethyl Benzene	12.70	91	57091m	0.126	ppbv	
59) m/p-Xylene	12.96	91	252869m	0.640	ppbv	
60) o-Xylene	13.69	91	67744	0.177	ppbv	98

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

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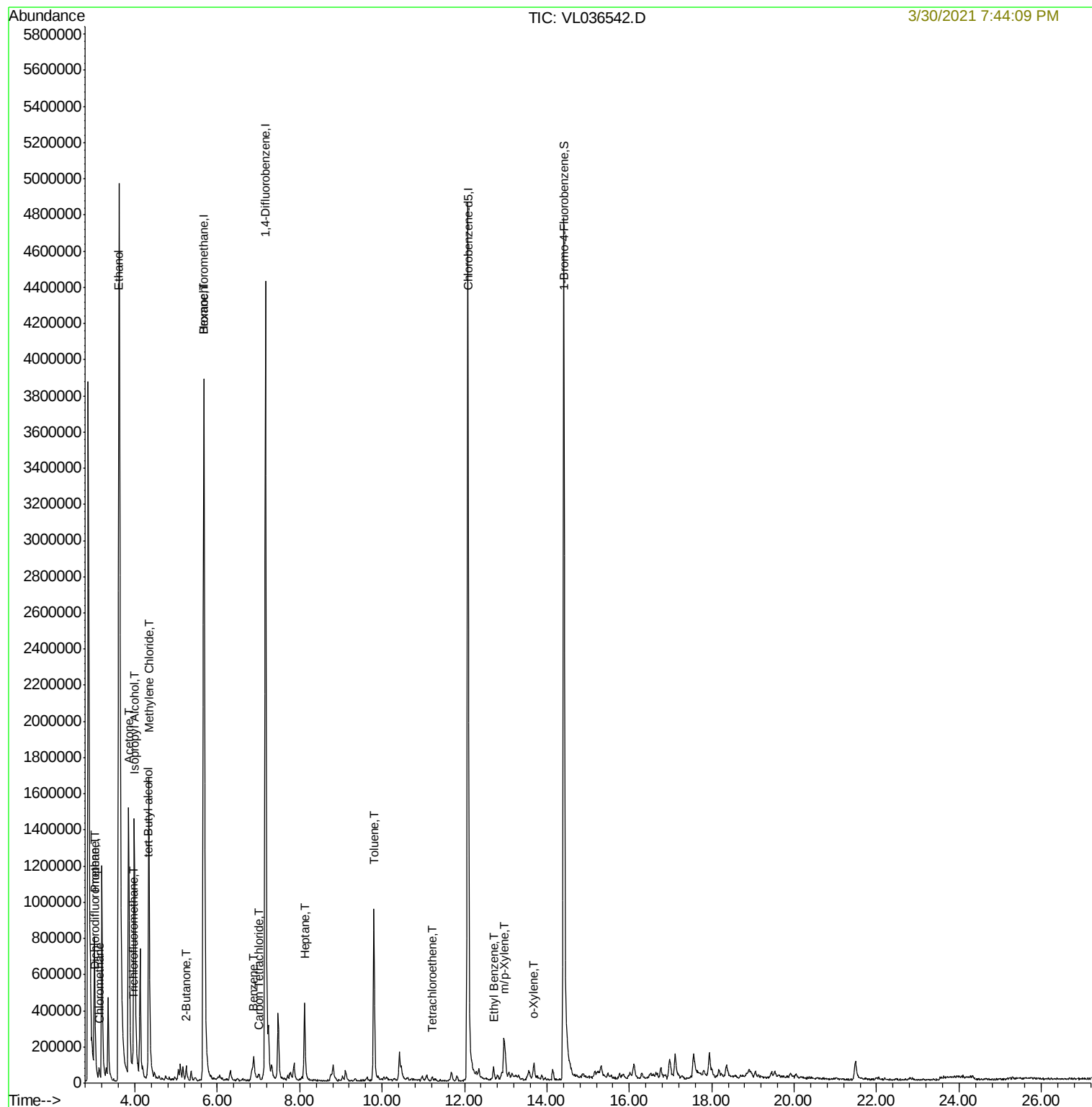
Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-WORK-RM

Quant Time: Mar 30 11:23:18 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036542.D

Acq: 29 Mar 2021 16:48

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 49 Resp: 1574004

Ion Ratio Lower Upper

49 100

128 42.7 23.5 70.6

130 54.9 29.1 87.4

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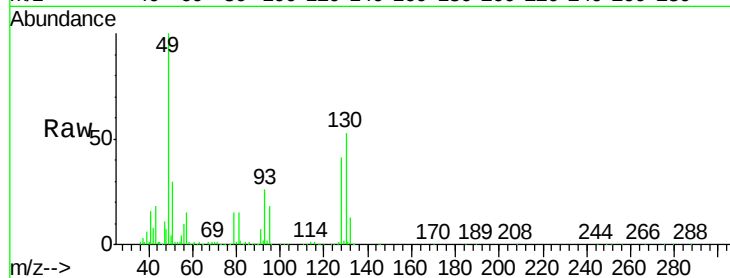
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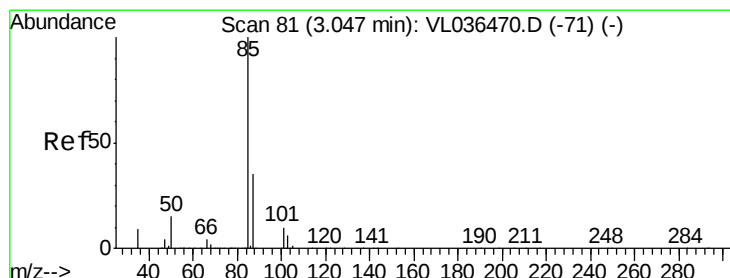
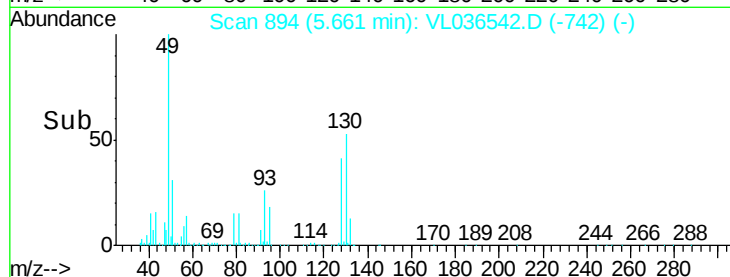
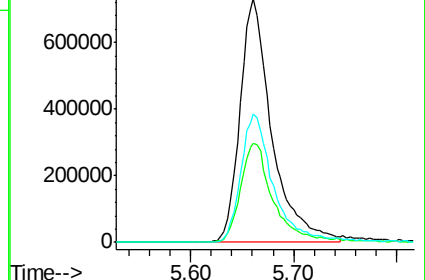
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.231 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036542.D

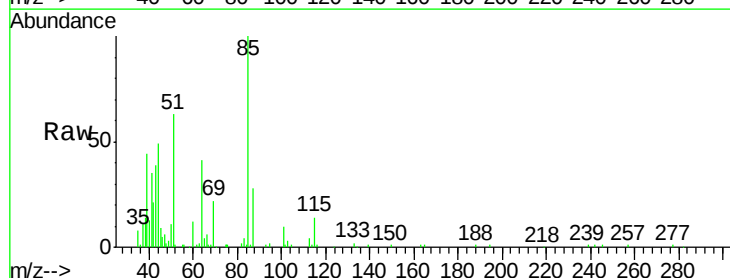
Acq: 29 Mar 2021 16:48

Tgt Ion: 85 Resp: 59279

Ion Ratio Lower Upper

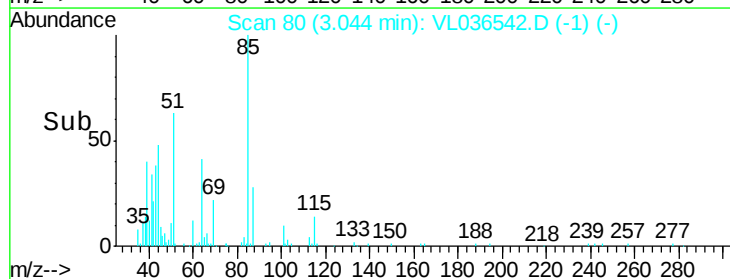
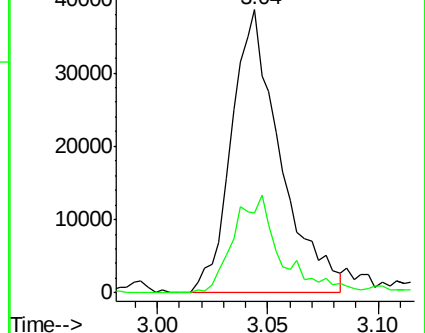
85 100

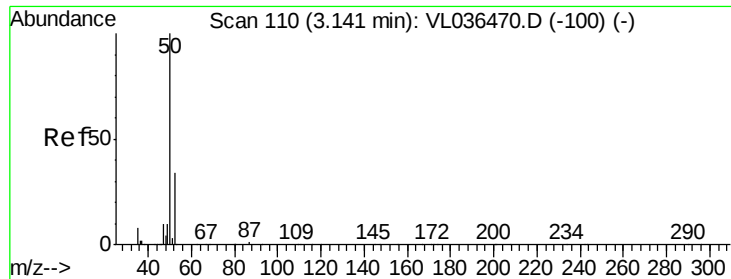
87 28.2 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.466 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036542.D

Acq: 29 Mar 2021 16:48

Instrument :

MSVOA_L

ClientSampleId :

IAS-5-TEACHERS-WORK-RM

Tot Ion: 50 Resp: 48436

Ion Ratio Lower Upper

50 100

52 28.3 27.0 40.6

Manual Integrations

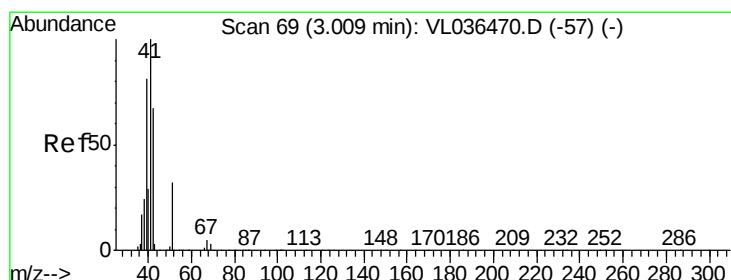
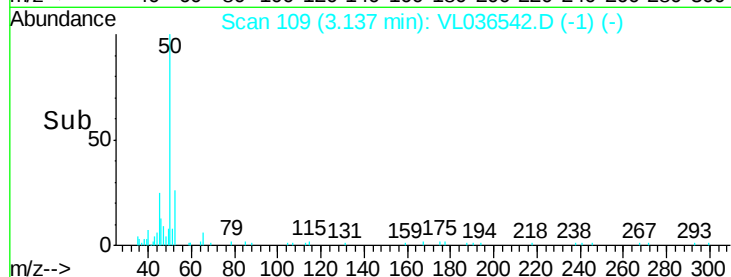
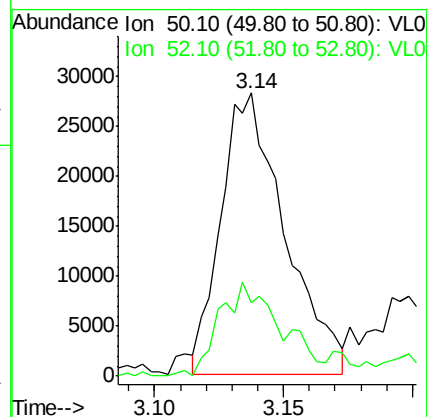
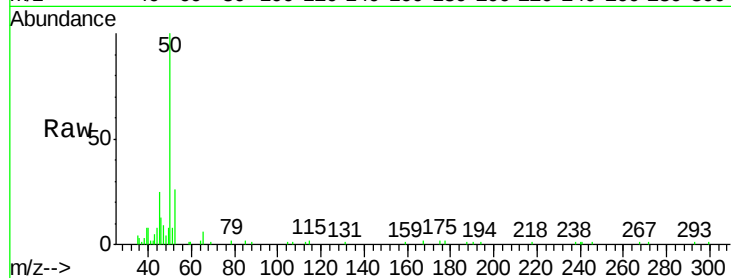
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#9

Propene

Concen: 1.627 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036542.D

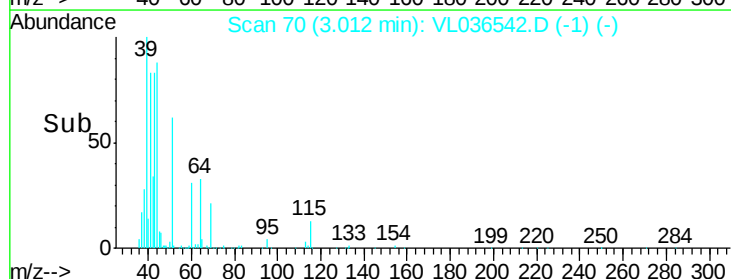
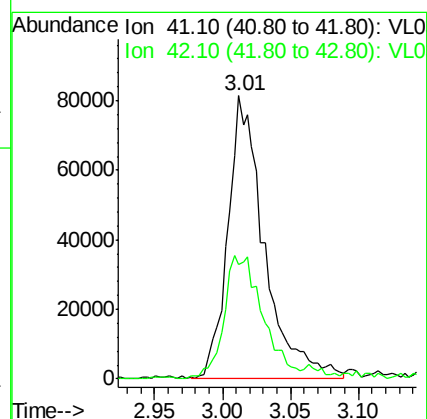
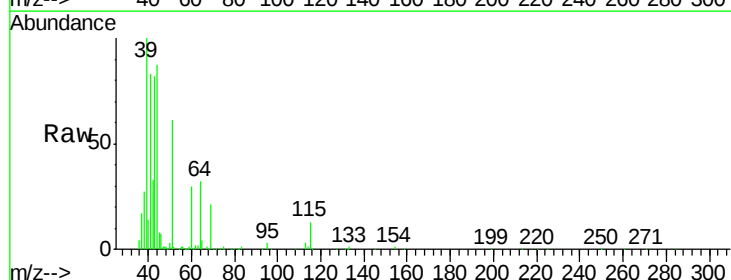
Acq: 29 Mar 2021 16:48

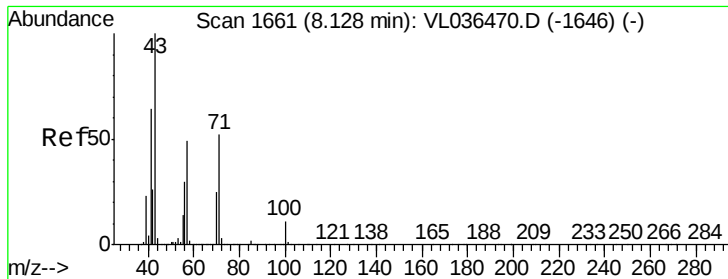
Tgt Ion: 41 Resp: 152564

Ion Ratio Lower Upper

41 100

42 177.8 57.0 85.4#





#10
Heptane
Concen: 0.654 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
MSVOA_L
ClientSampleId :
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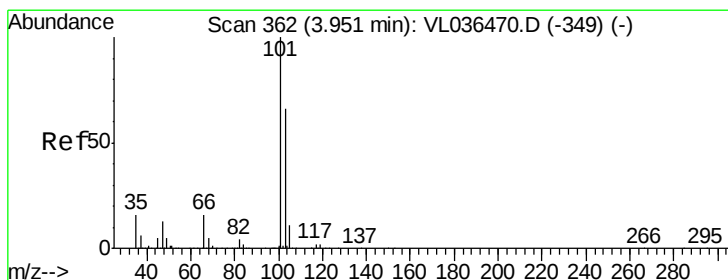
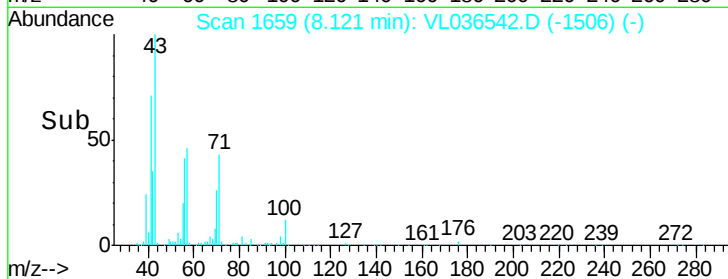
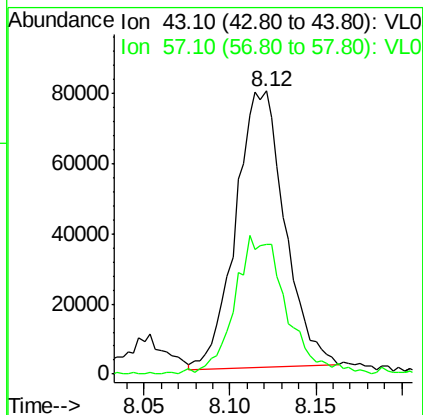
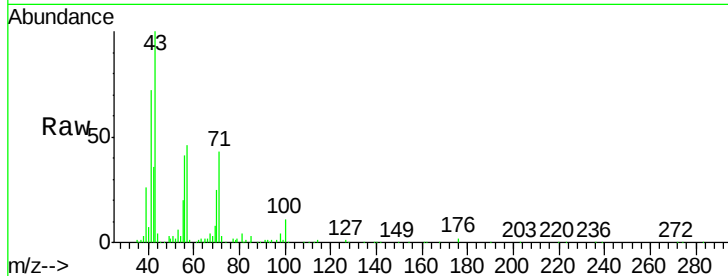
Tot Ion: 43 Resp: 156091
Ion Ratio Lower Upper
43 100
57 52.6 39.0 58.6

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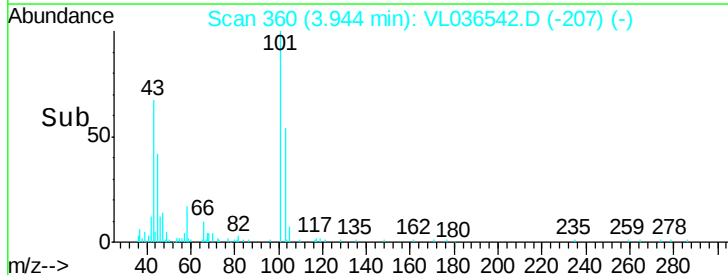
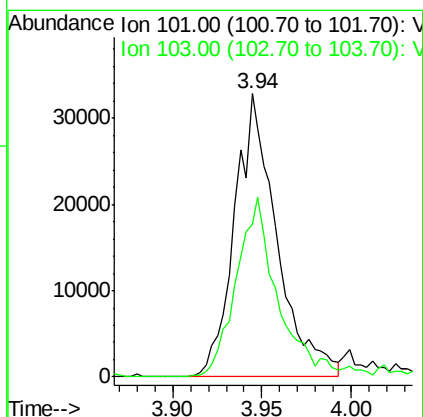
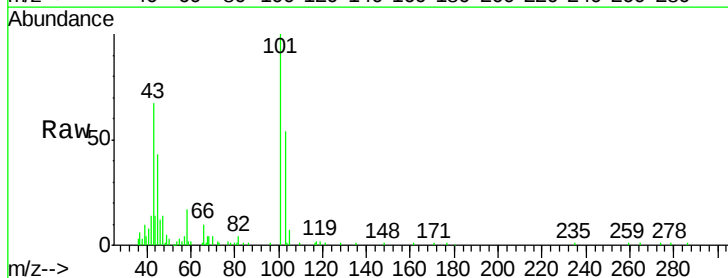
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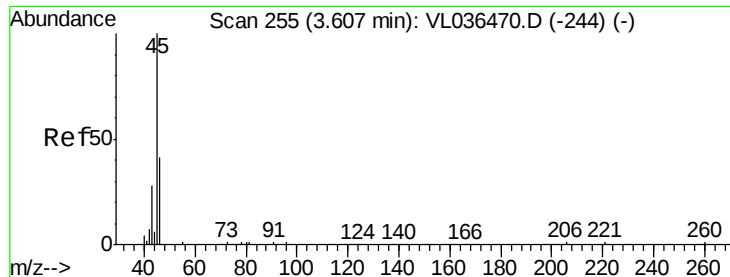
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#11
Trichlorofluoromethane
Concen: 0.207 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion: 101 Resp: 54122
Ion Ratio Lower Upper
101 100
103 54.2 52.5 78.7





#13
Ethanol
Concen: 785.967 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
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ClientSampleId :
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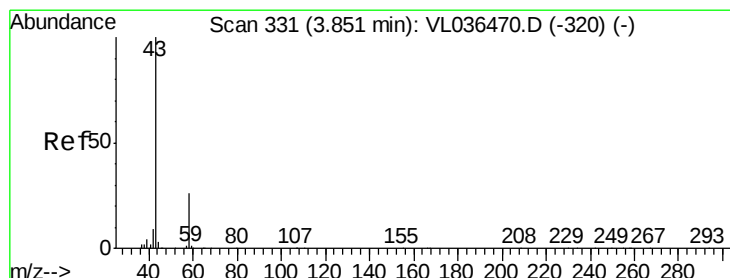
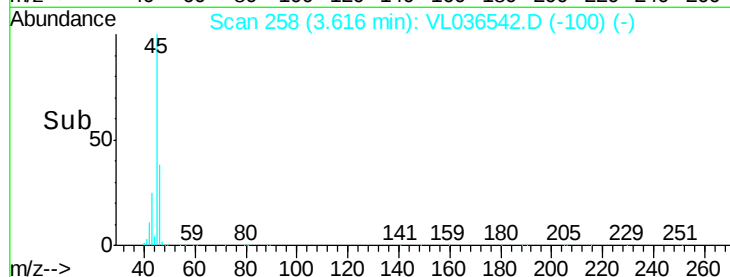
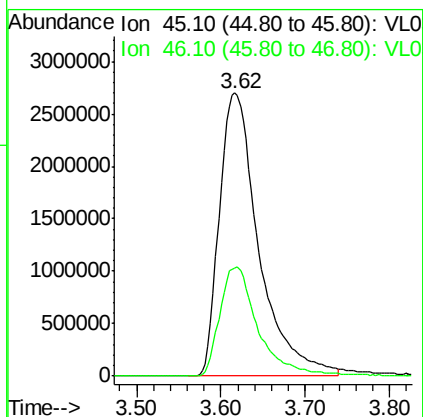
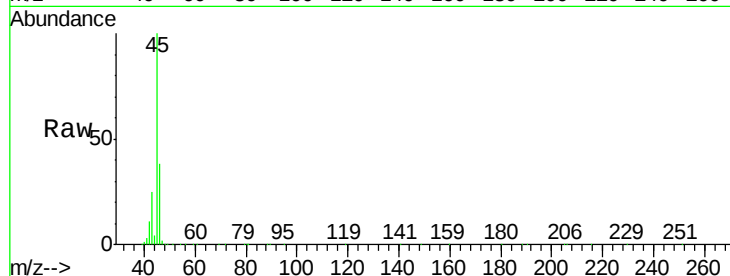
Tot Ion: 45 Resp: 8774776
Ion Ratio Lower Upper
45 100
46 38.3 16.6 66.2

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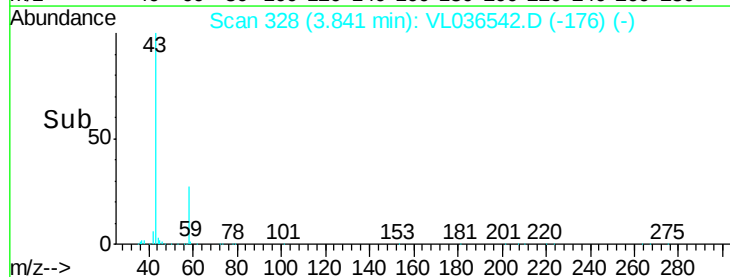
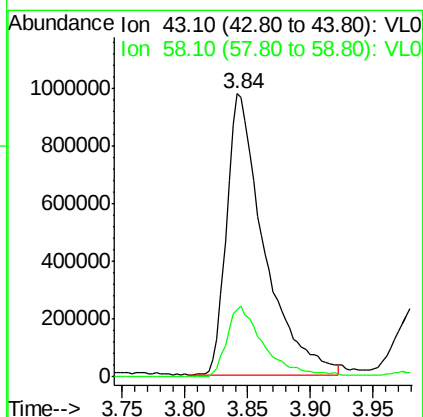
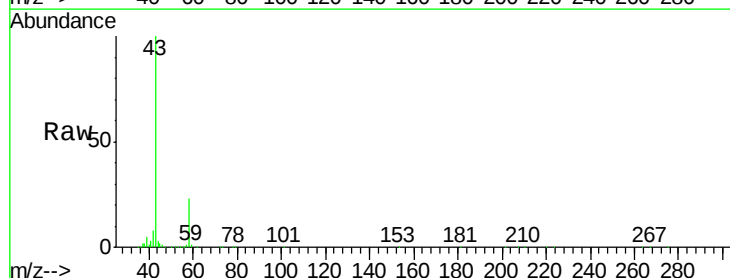
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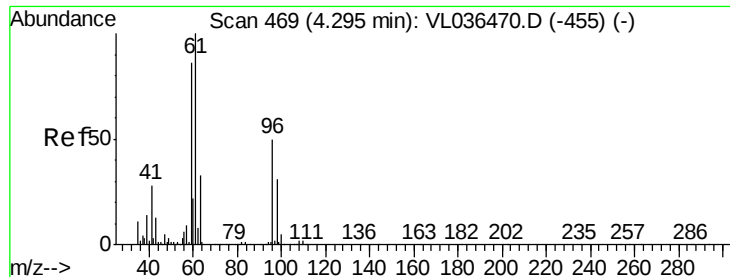
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#15
Acetone
Concen: 13.140 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion: 43 Resp: 2035598
Ion Ratio Lower Upper
43 100
58 25.2 21.2 31.8





#17

tert-Butyl alcohol
Concen: 0.261 ppbv m
RT: 4.32 min Scan# 476
Delta R.T. 0.02 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-WORK-RM

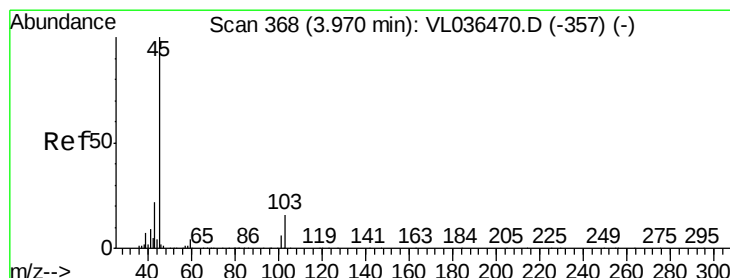
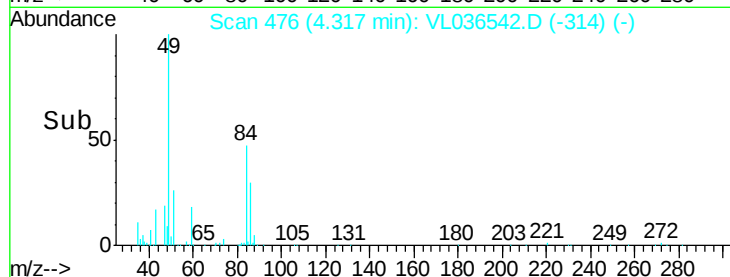
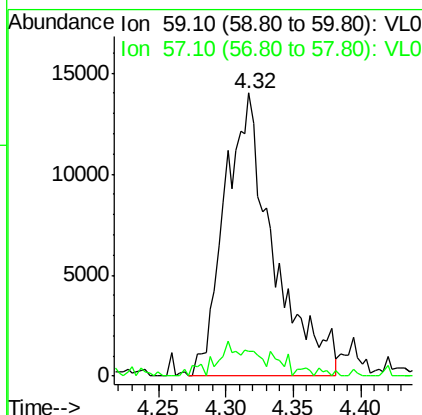
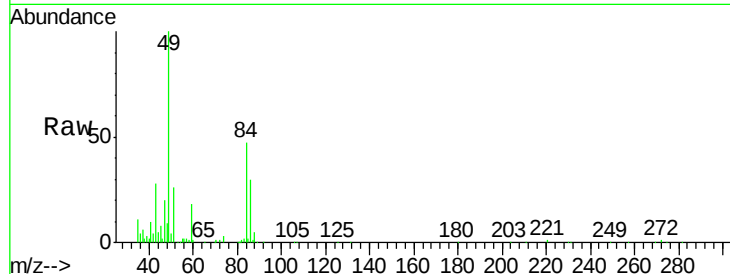
Tot Ion: 59 Resp: 35194
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

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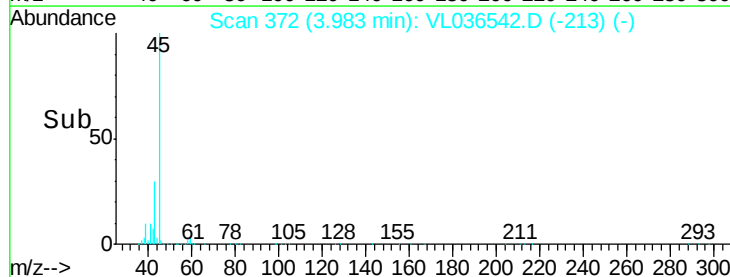
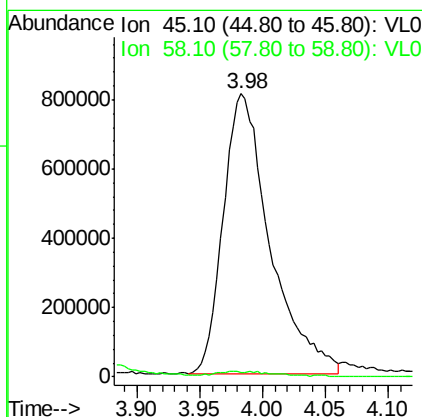
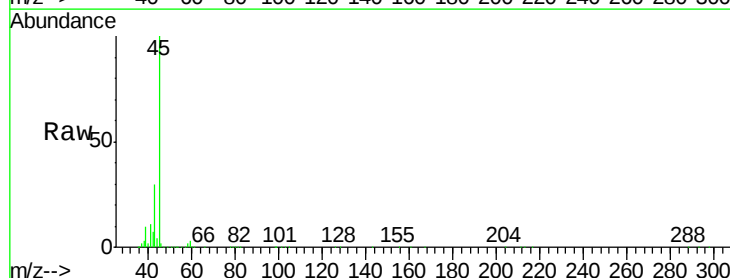
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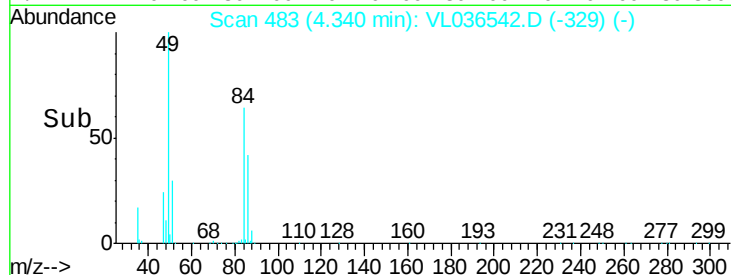
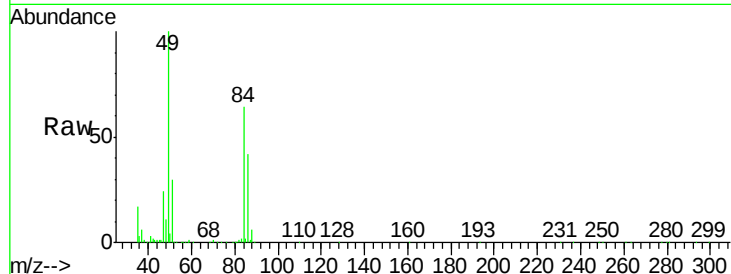
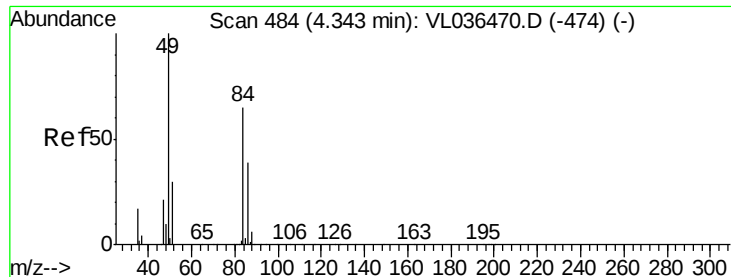


#19

Isopropyl Alcohol
Concen: 24.608 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion: 45 Resp: 2097086
Ion Ratio Lower Upper
45 100
58 2.4 2.9 4.3#





#20
Methvlene Chloride
Concen: 8.940 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tot Ion	84	Resp	648452
Ion Ratio	Lower	Upper	
84	100		
49	155.1	122.9	184.3
51	46.1	36.9	55.3
86	65.9	48.2	72.4

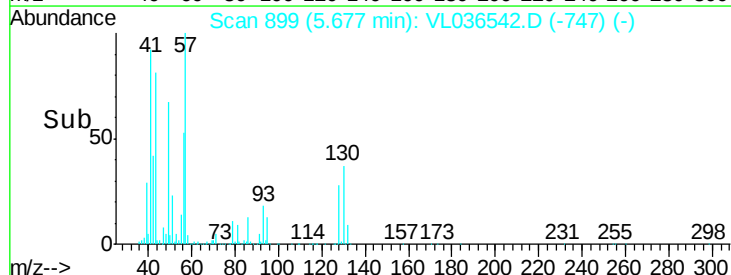
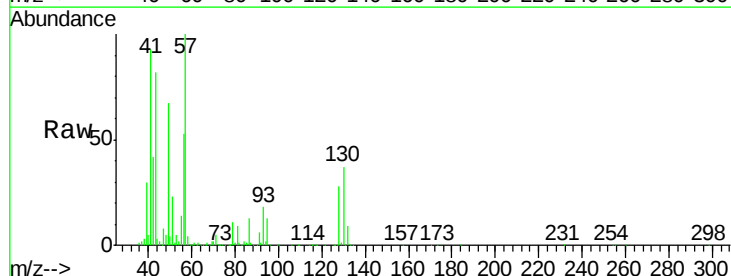
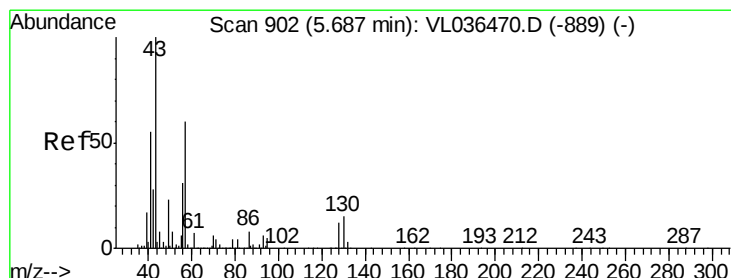
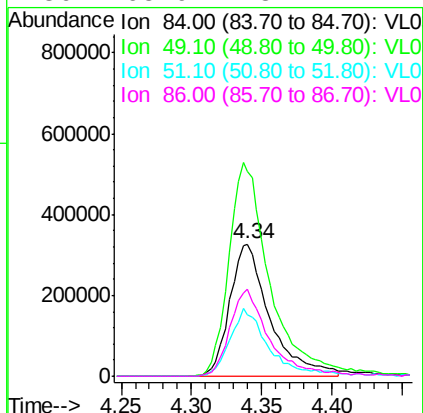
Instrument :
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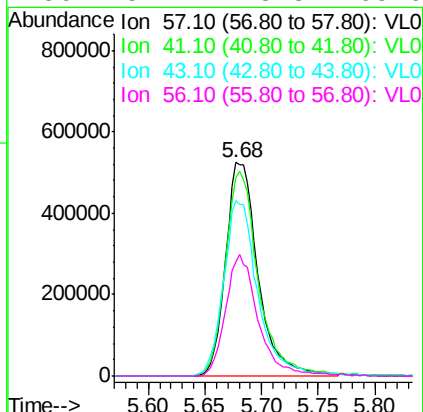
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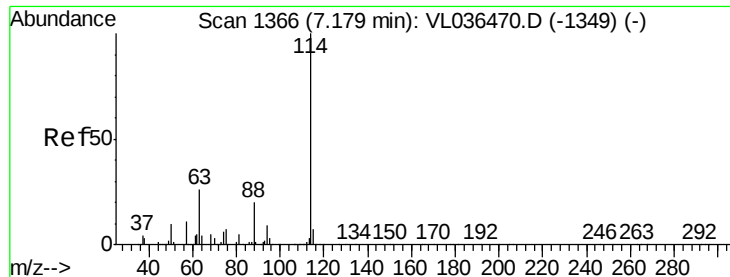
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#26
Hexane
Concen: 6.148 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion	57	Resp	1050832
Ion Ratio	Lower	Upper	
57	100		
41	98.3	77.2	115.8
43	86.6	173.8	260.6#
56	57.2	43.8	65.6





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036542.D
 Acq: 29 Mar 2021 16:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-5-TEACHERS-WORK-RM

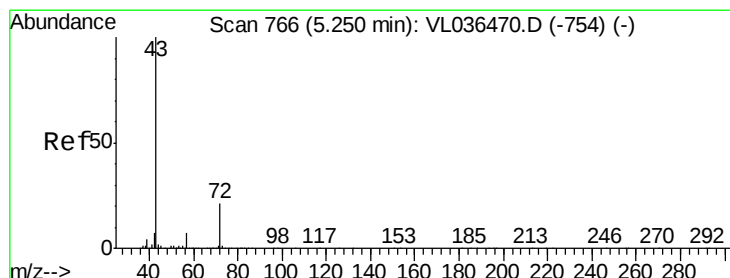
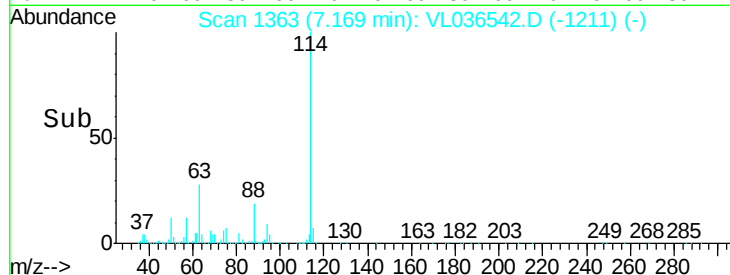
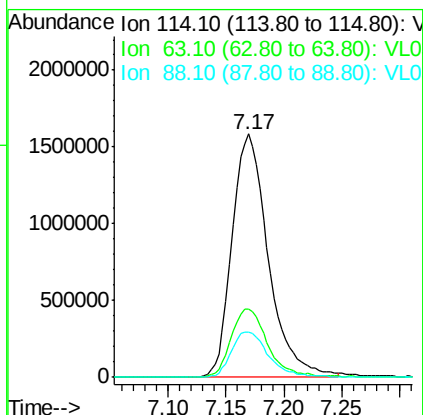
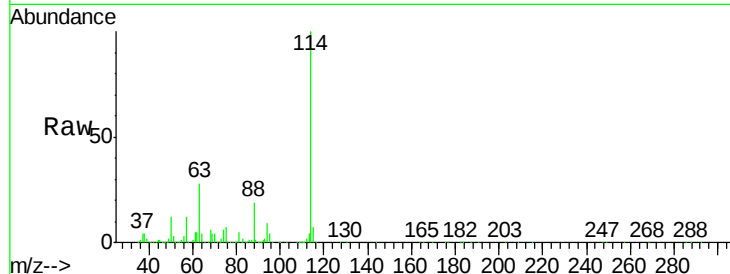
Tot Ion	Ratio	Lower	Upper
114	100		
63	28.9	22.4	33.6
88	19.3	15.4	23.0

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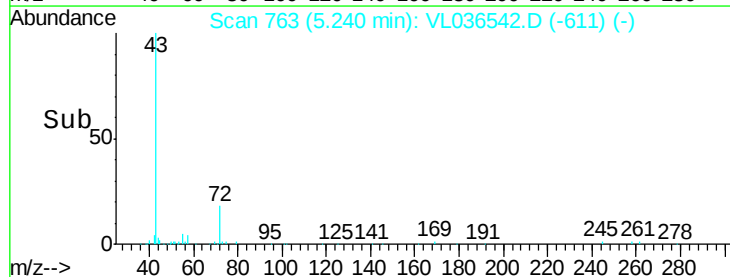
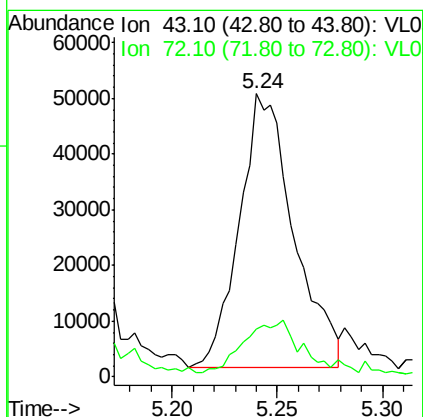
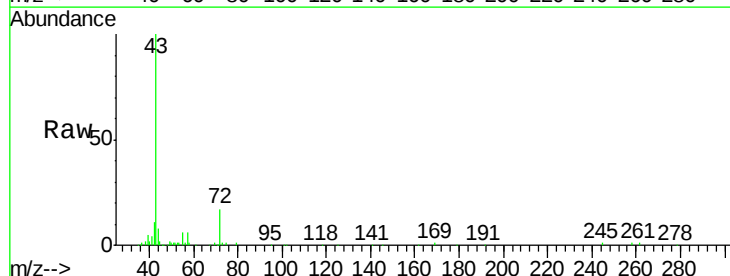
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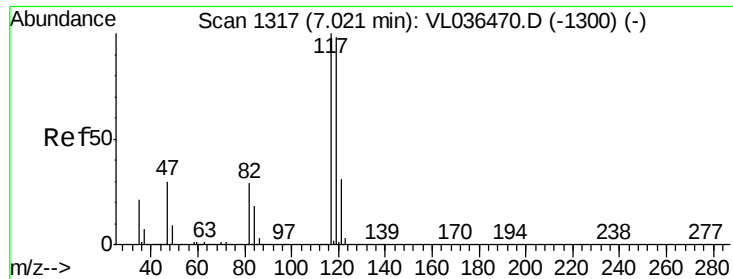
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#34
 2-Butanone
 Concen: 0.527 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: VL036542.D
 Acq: 29 Mar 2021 16:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.8	17.0	25.6





#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.02 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-WORK-RM

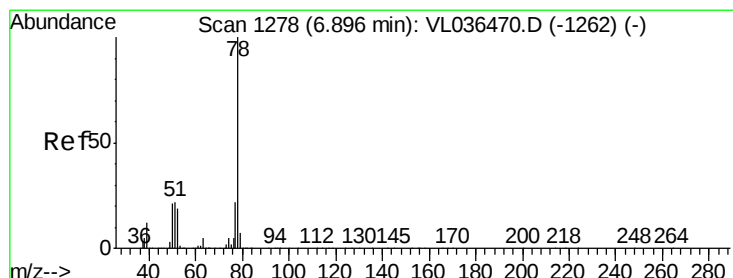
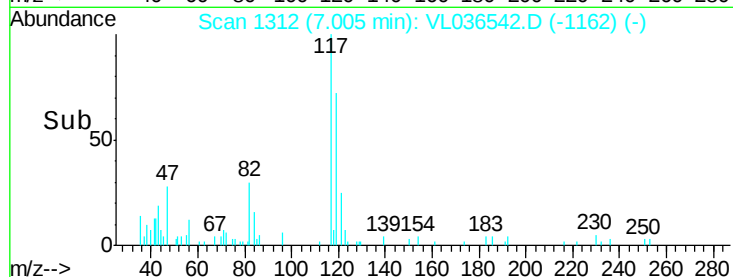
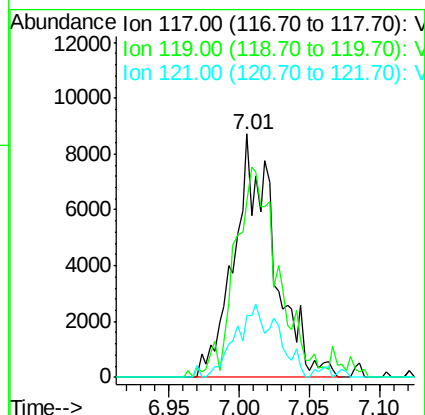
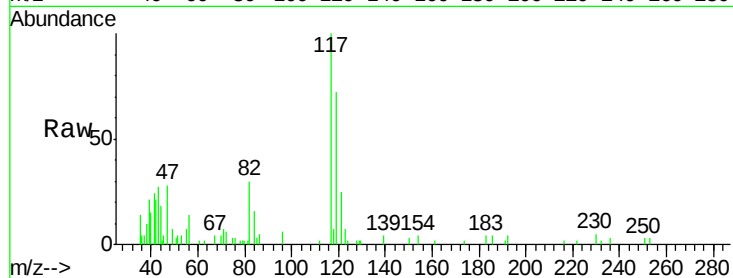
Tot Ion	Ratio	Lower	Upper
117	100		
119	72.1	78.2	117.2#
121	25.3	24.5	36.7

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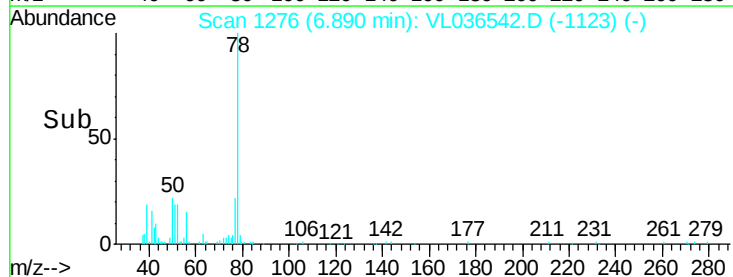
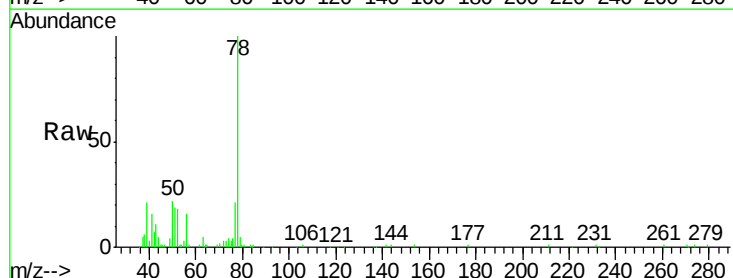
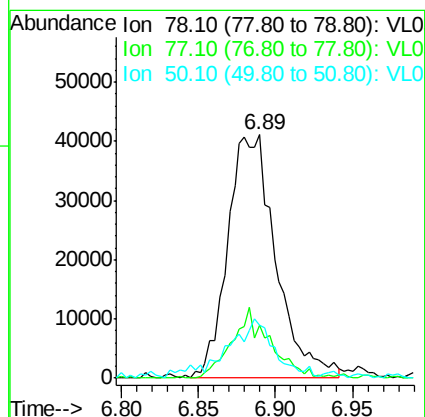
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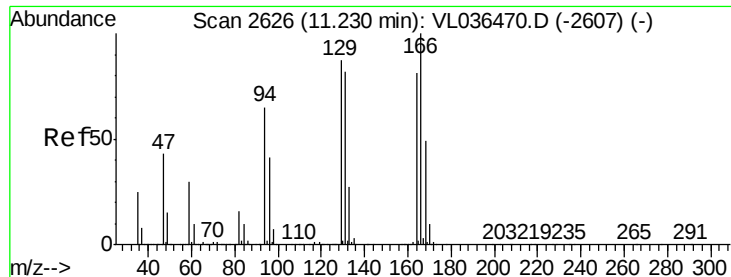
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#36
Benzene
Concen: 0.281 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.0	27.0
50	21.9	16.5	24.7





#52
Tetrachloroethene
Concen: 0.045 ppbv
RT: 11.21 min Scan# 2621
Delta R.T. -0.02 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-WORK-RM

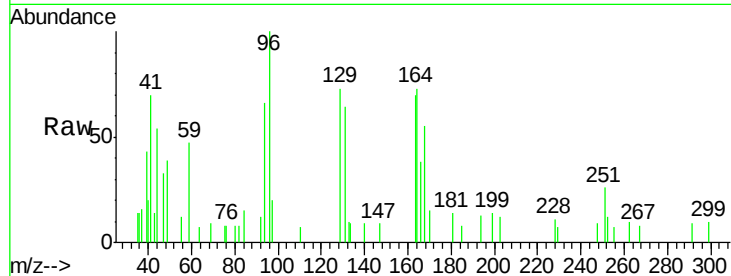
Tot Ion	Ratio	Lower	Upper
164	100		
166	52.1	98.3	147.5#
129	99.9	85.8	128.8
131	87.7	80.9	121.3

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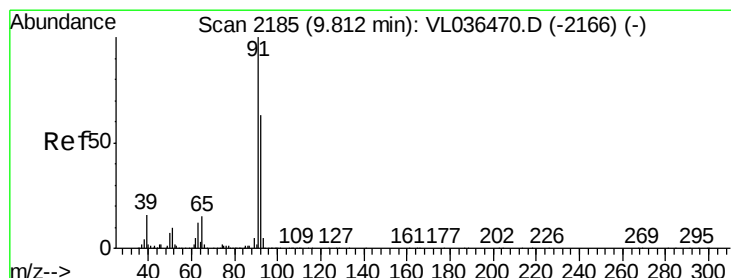
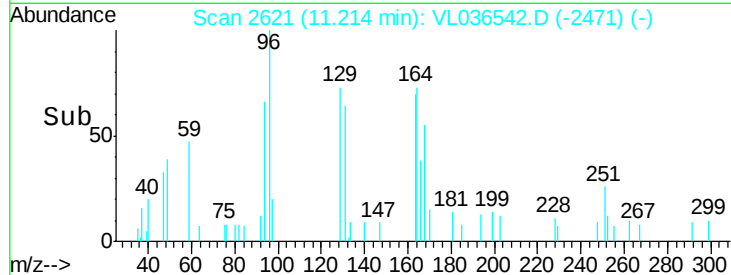
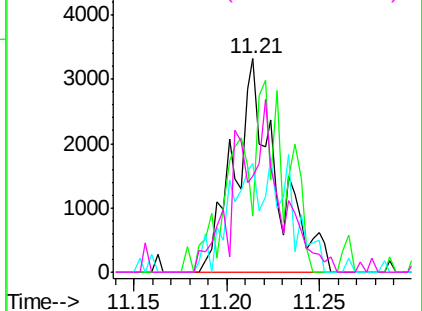
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

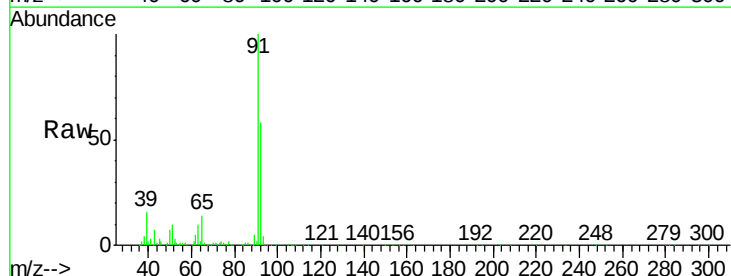
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 2.081 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

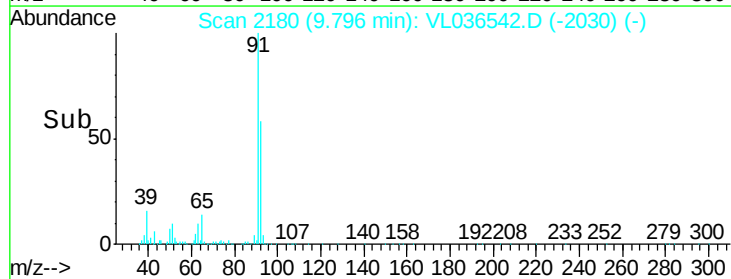
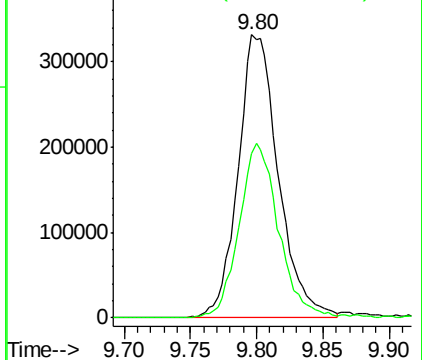
Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.8	73.2

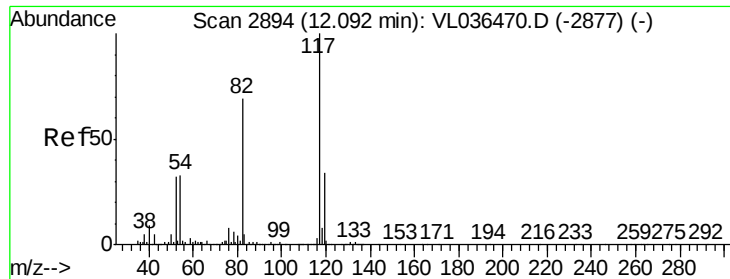


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-WORK-RM

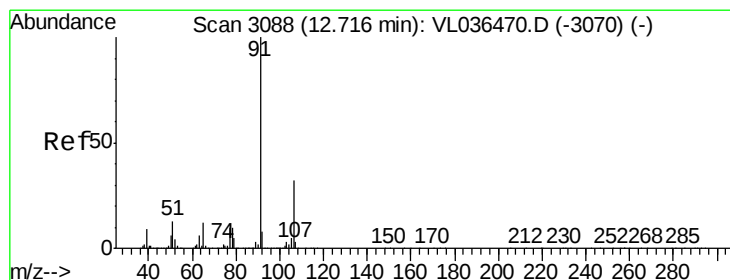
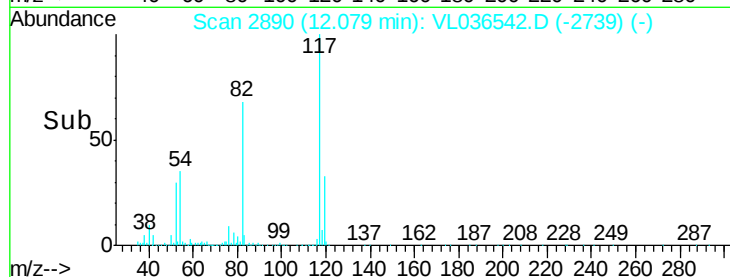
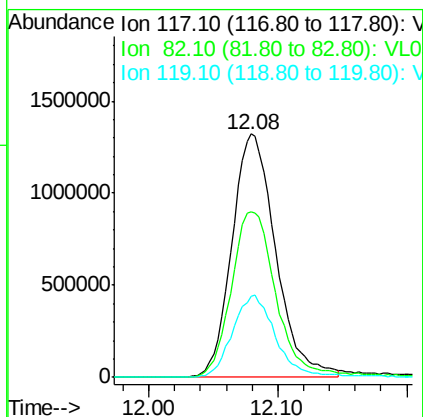
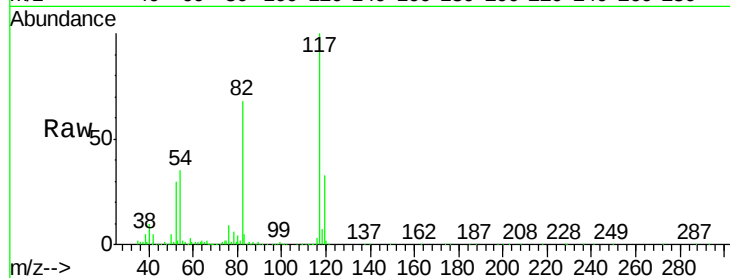
Tot Ion:117 Resp: 3111758
Ion Ratio Lower Upper
117 100
82 71.7 57.4 86.0
119 34.2 47.4 71.0#

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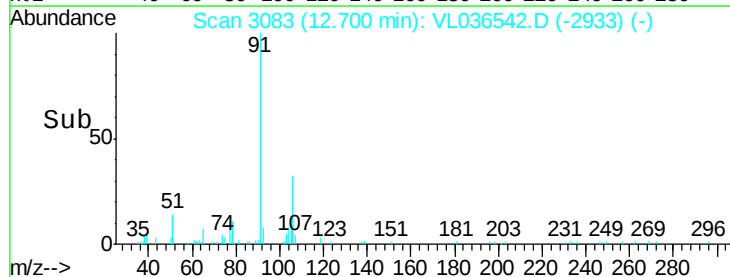
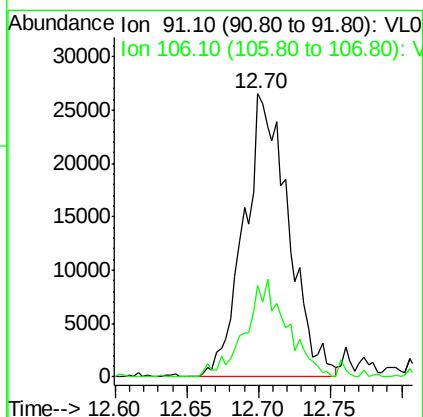
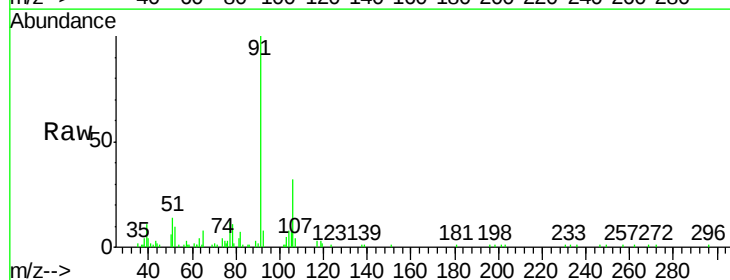
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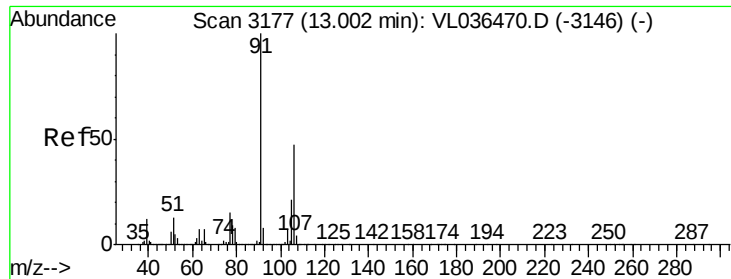
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#58
Ethyl Benzene
Concen: 0.126 ppbv m
RT: 12.70 min Scan# 3083
Delta R.T. -0.02 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion: 91 Resp: 57091
Ion Ratio Lower Upper
91 100
106 32.4 25.3 37.9





#59
m/p-Xylene
Concen: 0.640 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Instrument :
MSVOA_L
ClientSampleId :
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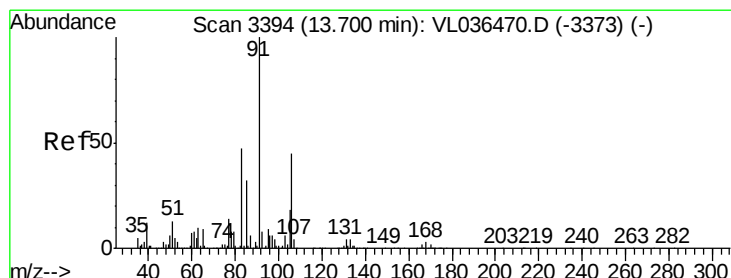
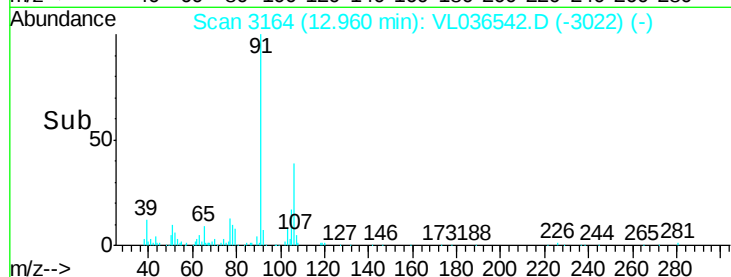
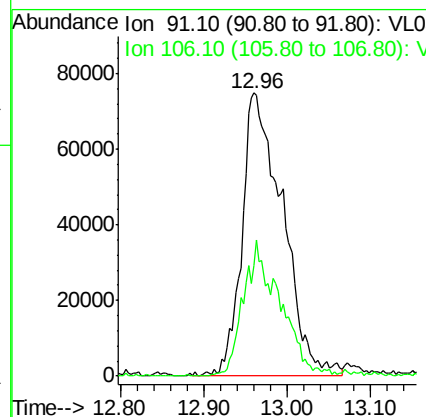
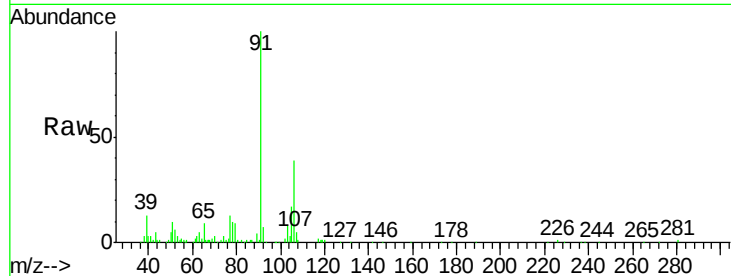
Tot Ion: 91 Resp: 252869
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

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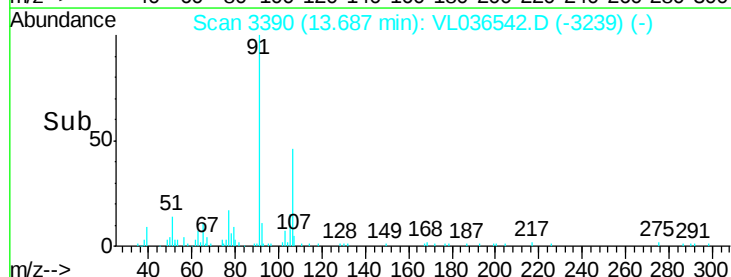
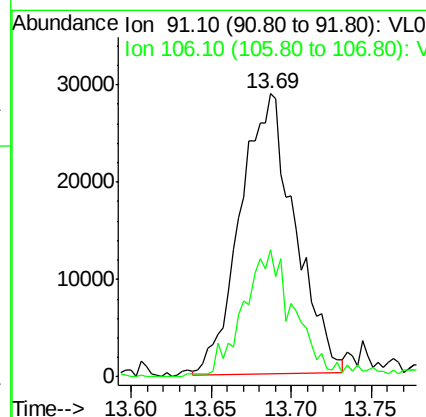
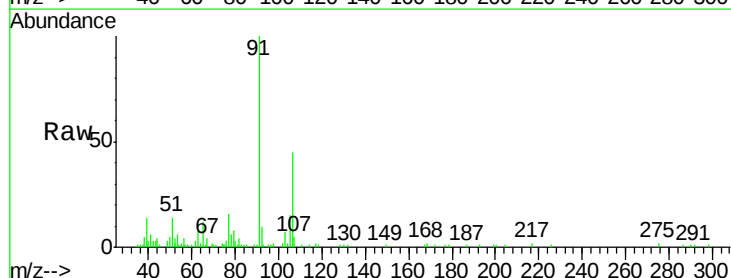
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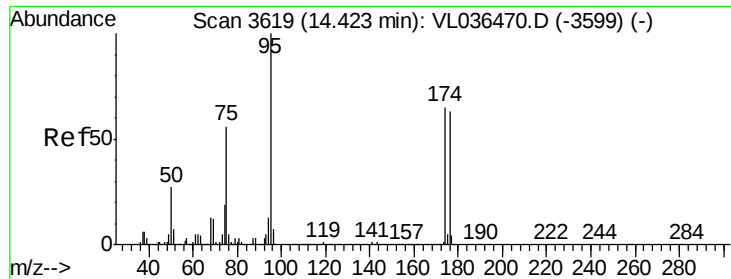
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#60
o-Xylene
Concen: 0.177 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL036542.D
Acq: 29 Mar 2021 16:48

Tgt Ion: 91 Resp: 67744
Ion Ratio Lower Upper
91 100
106 43.4 22.3 66.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.070 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.02 min
 Lab File: VL036542.D
 Acq: 29 Mar 2021 16:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-5-TEACHERS-WORK-RM

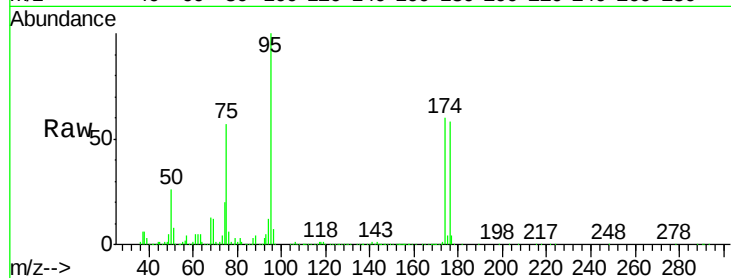
Tot Ion	Ratio	Lower	Upper
95	100		
174	65.2	51.0	76.6
175	4.8	3.9	5.9

Manual Integrations
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Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

