

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036545.D
 Acq On : 29 Mar 2021 18:50
 Operator : SY/AP
 Sample : M1760-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-PRE-K-TEACHER-RM

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:44:14 PM

Quant Time: Mar 30 11:28:37 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 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	1520698	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3377295	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3053876	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2445055	10.05	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	55437	0.224	ppbv	93
3) Chlorodifluoromethane	2.98	51	87682	0.309	ppbv #	91
4) Chloromethane	3.13	50	46181	0.460	ppbv	100
9) Propene	3.02	41	62381	0.689	ppbv	95
11) Trichlorofluoromethane	3.94	101	51721	0.205	ppbv	90
13) Ethanol	3.60	45	521587	48.357	ppbv	96
15) Acetone	3.84	43	1187261	7.932	ppbv	96
19) Isopropyl Alcohol	3.97	45	262970	3.194	ppbv #	94
20) Methylene Chloride	4.34	84	681534	9.725	ppbv	96
26) Hexane	5.68	57	1036604	6.278	ppbv #	48
34) 2-Butanone	5.24	43	86517	0.525	ppbv	99
35) Carbon Tetrachloride	7.01	117	14646m	0.056	ppbv	
36) Benzene	6.88	78	71190m	0.229	ppbv	
53) Toluene	9.80	91	793594	2.392	ppbv	99
59) m/p-Xylene	12.95	91	52599m	0.136	ppbv	

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

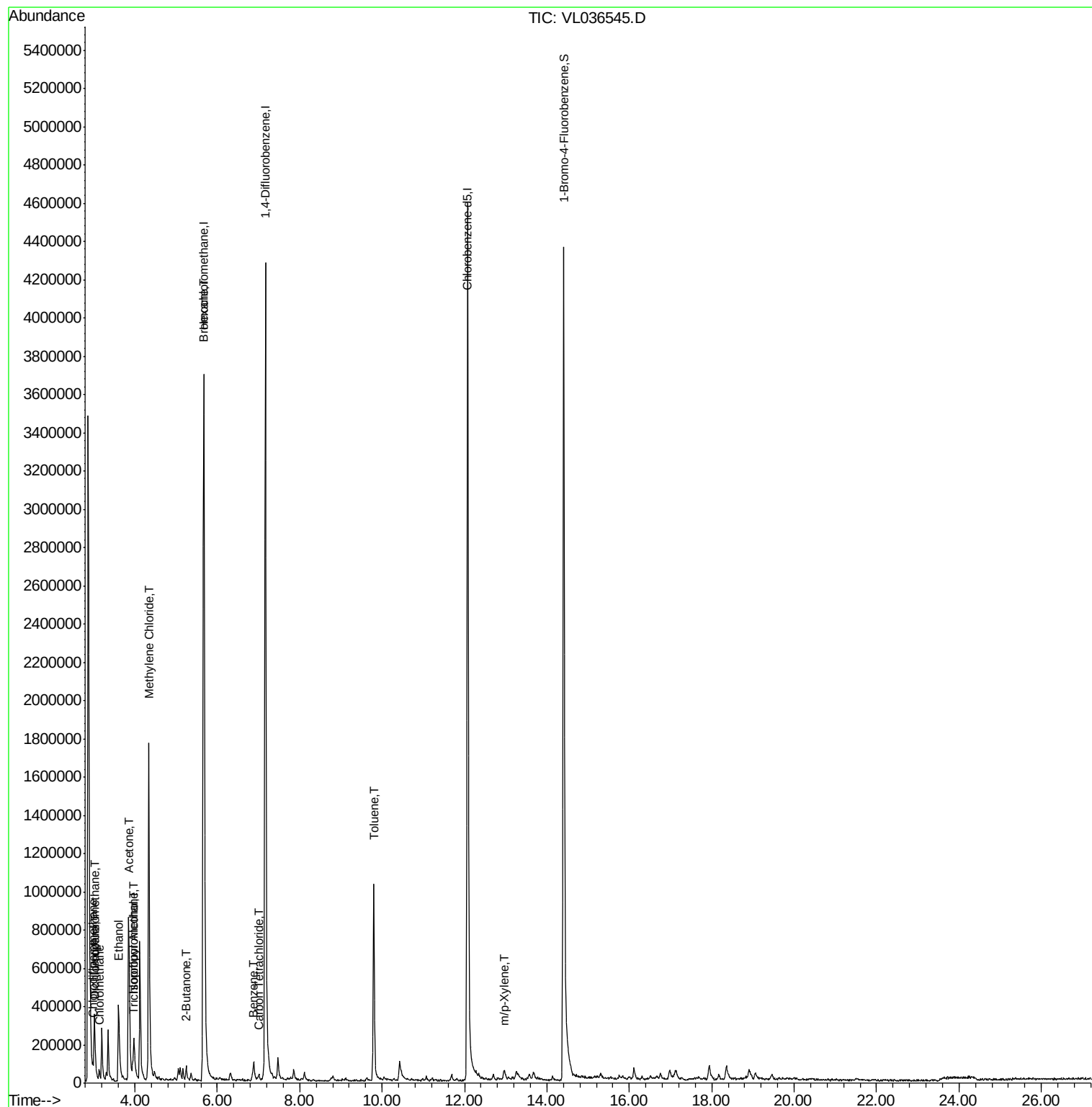
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036545.D
Acq On : 29 Mar 2021 18:50
Operator : SY/AP
Sample : M1760-09
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

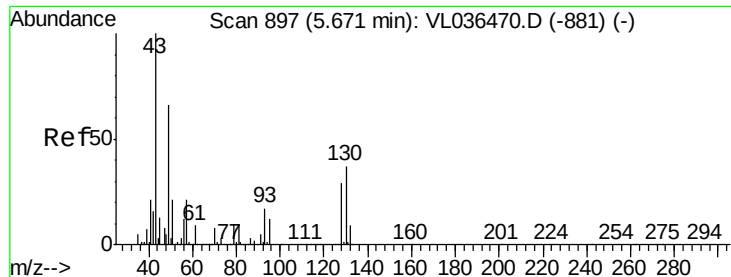
Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHER-RM

Manual Integrations
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3/30/2021 7:44:14 PM

Quant Time: Mar 30 11:28:37 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHER-RM

Tot Ion: 49 Resp: 1520698

Ion Ratio Lower Upper

49 100

128 43.6 23.5 70.6

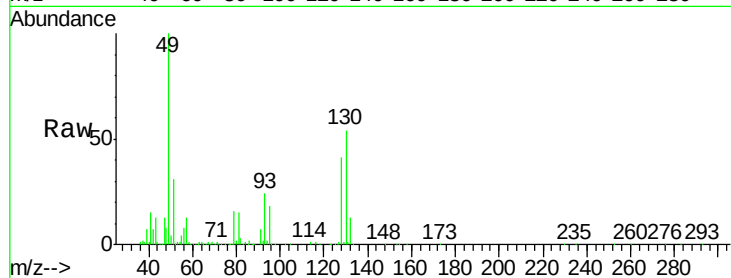
130 55.7 29.1 87.4

Manual Integrations

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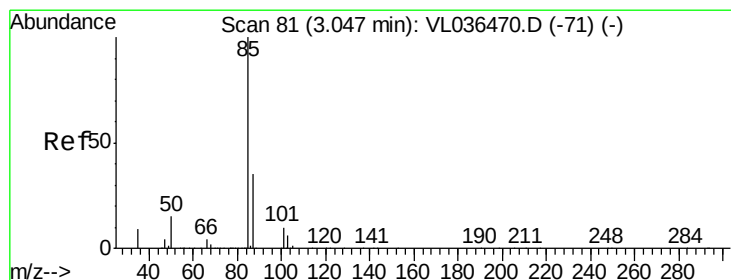
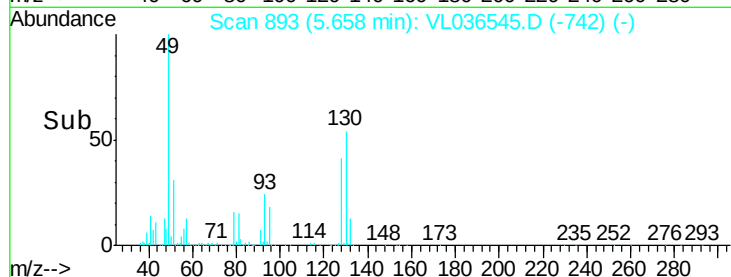
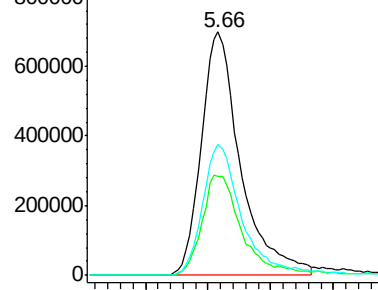
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.224 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036545.D

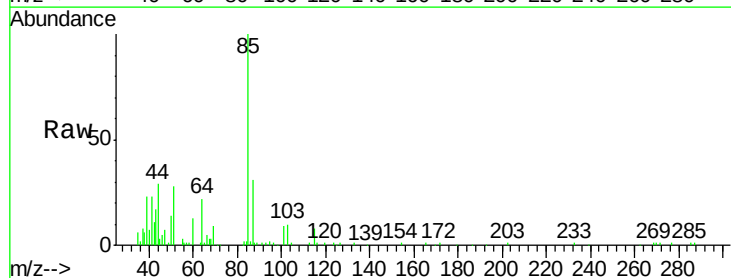
Acq: 29 Mar 2021 18:50

Tgt Ion: 85 Resp: 55437

Ion Ratio Lower Upper

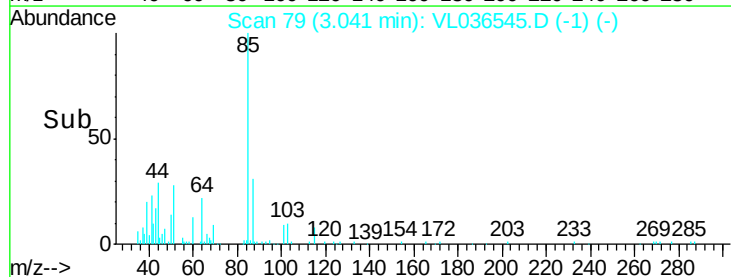
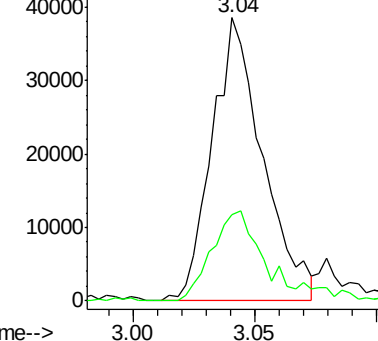
85 100

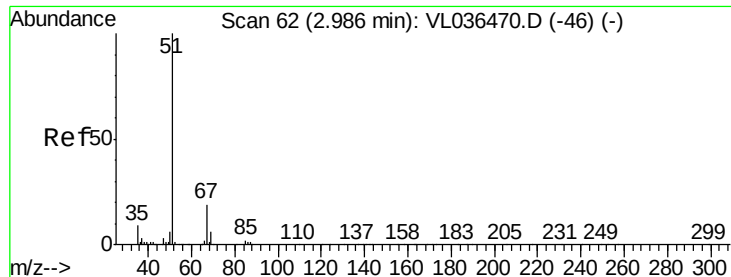
87 30.7 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.309 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHER-RM

Tot Ion: 51 Resp: 87682

Ion Ratio Lower Upper

51 100

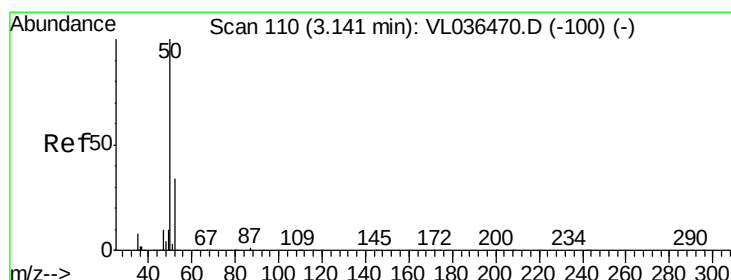
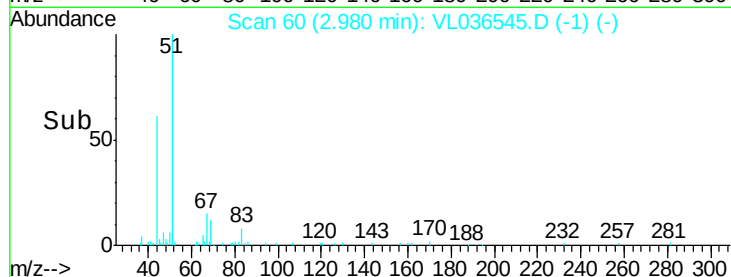
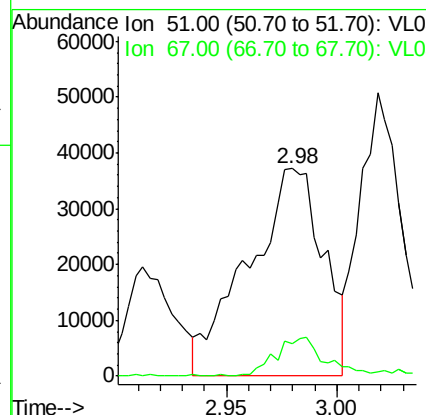
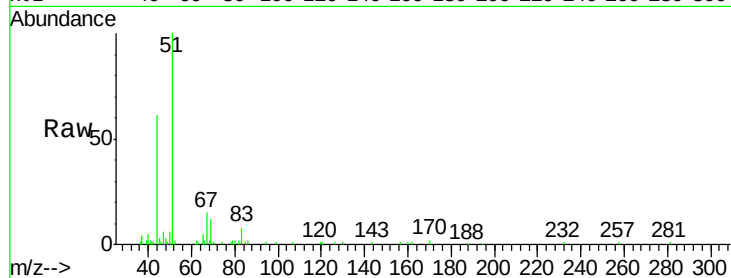
67 14.5 14.7 22.1#

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#4

Chloromethane

Concen: 0.460 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036545.D

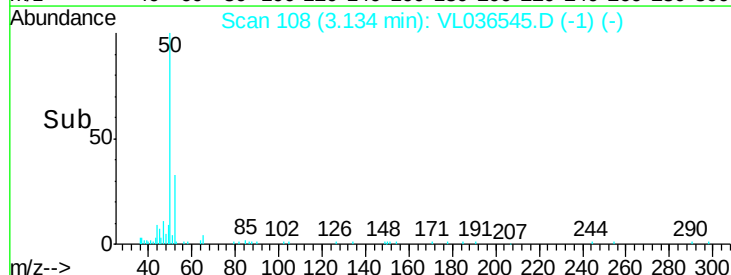
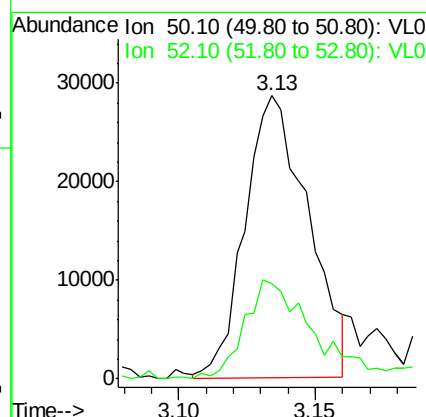
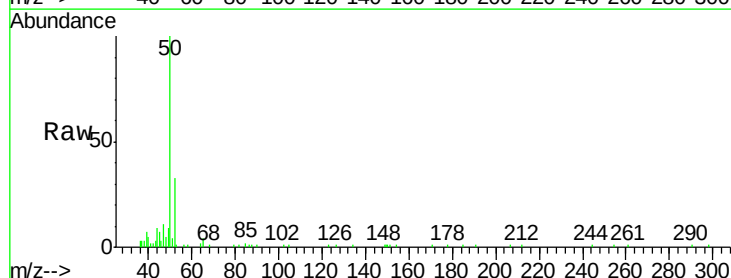
Acq: 29 Mar 2021 18:50

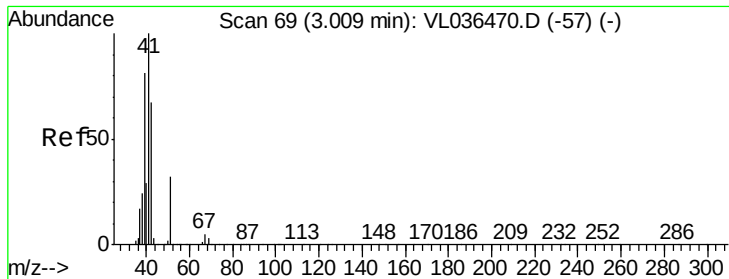
Tgt Ion: 50 Resp: 46181

Ion Ratio Lower Upper

50 100

52 33.9 27.0 40.6





#9

Propene

Concen: 0.689 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHER-RM

Tot Ion: 41 Resp: 62381

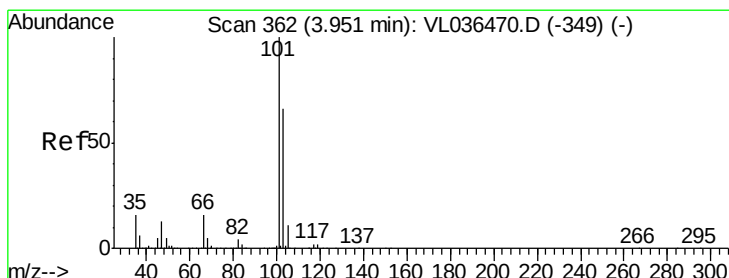
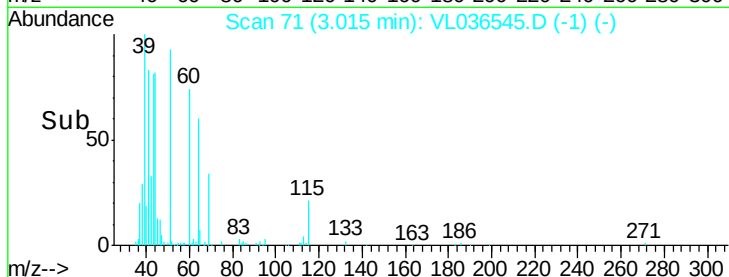
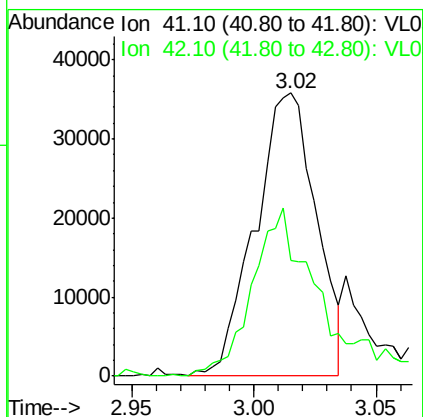
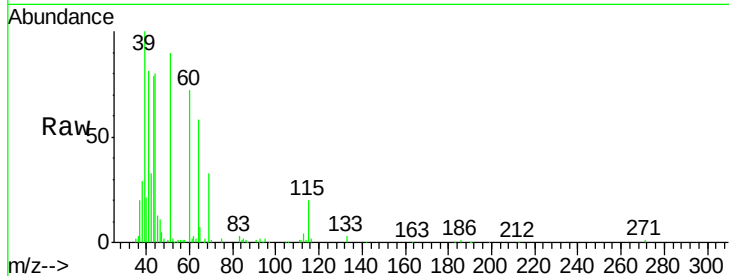
Ion Ratio Lower Upper

41 100

42 67.1 57.0 85.4

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#11

Trichlorofluoromethane

Concen: 0.205 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL036545.D

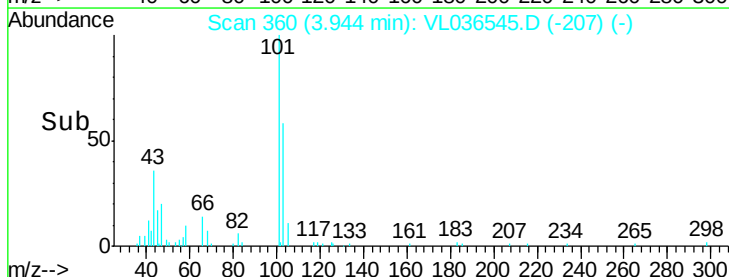
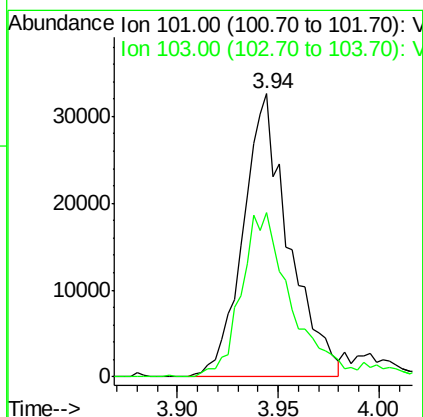
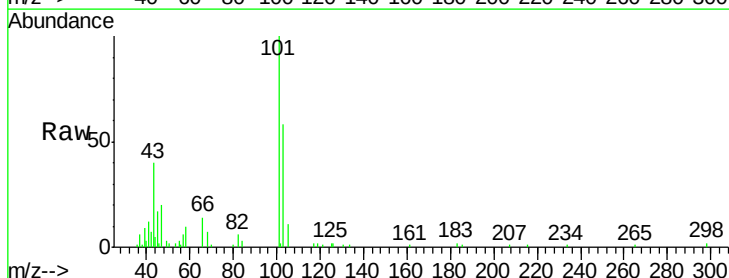
Acq: 29 Mar 2021 18:50

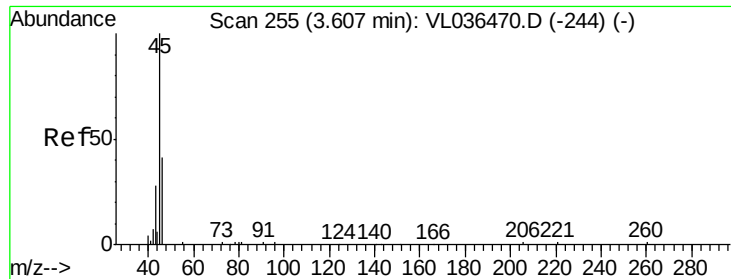
Tgt Ion: 101 Resp: 51721

Ion Ratio Lower Upper

101 100

103 58.0 52.5 78.7





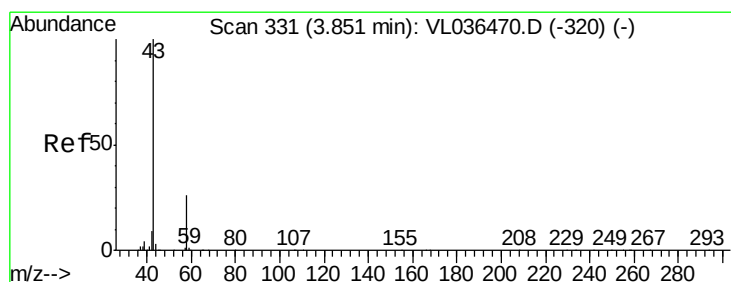
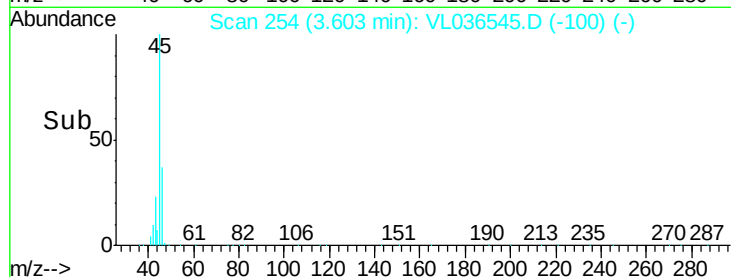
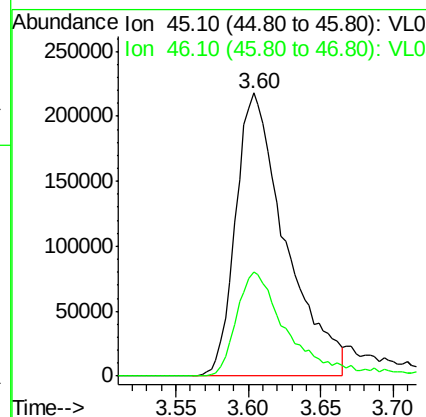
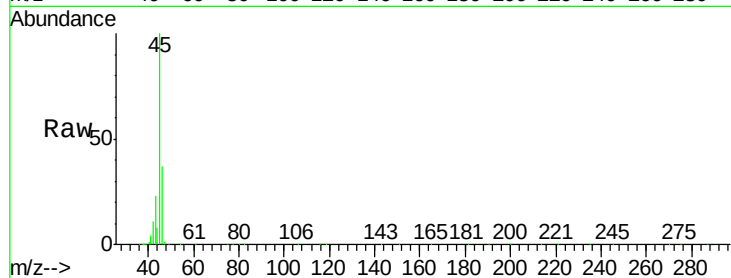
#13
Ethanol
Concen: 48.357 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHER-RM

Tot Ion	45	46	Ratio	Lower	Upper
Resp: 521587	100	38.7		16.6	66.2

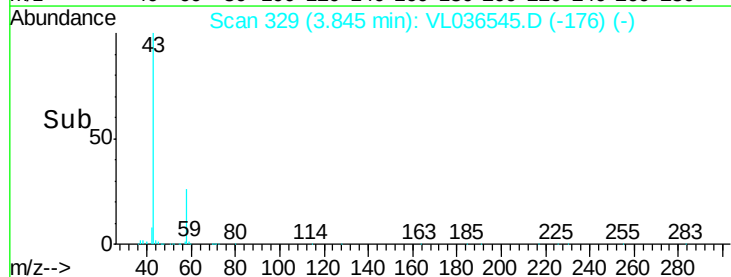
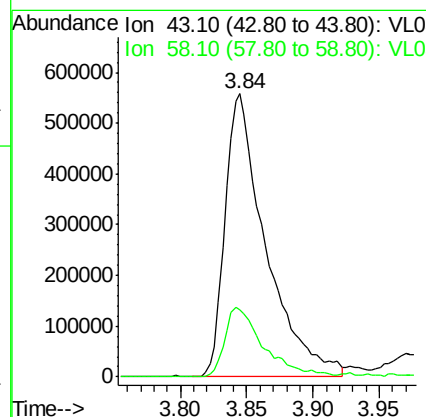
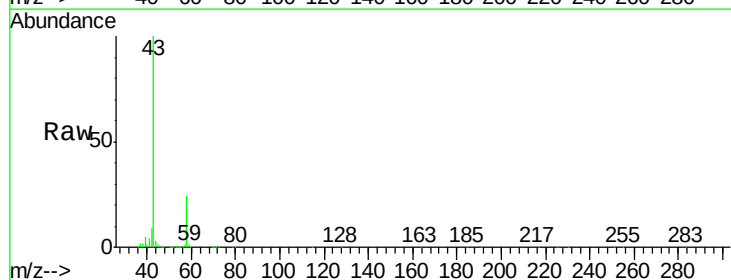
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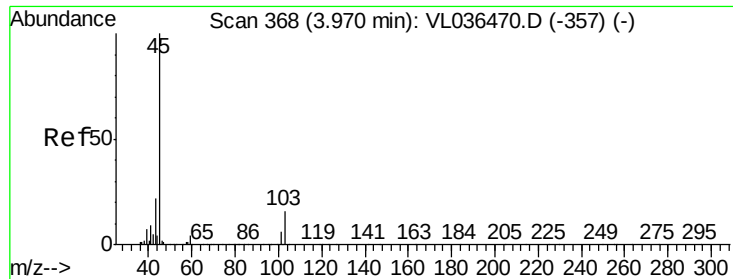
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#15
Acetone
Concen: 7.932 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Tgt Ion	43	58	Ratio	Lower	Upper
Resp: 1187261	100	24.3		21.2	31.8





#19

Isopropyl Alcohol

Concen: 3.194 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHER-RM

Tot Ion: 45 Resp: 262970

Ion Ratio Lower Upper

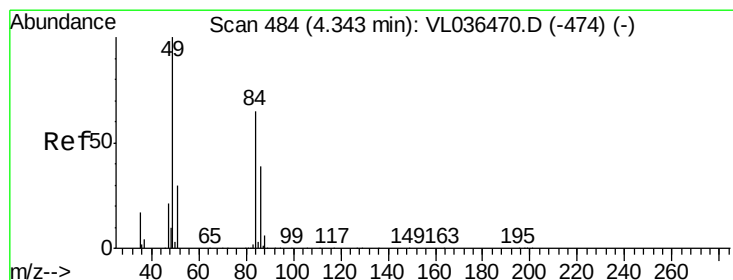
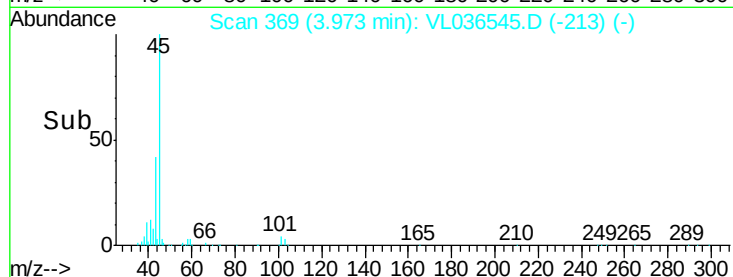
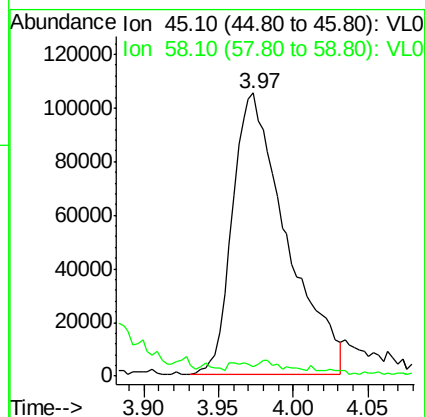
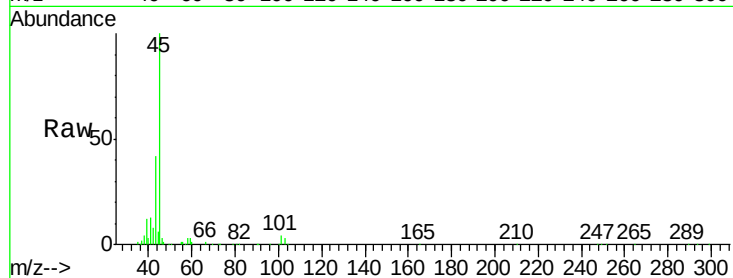
45 100

58 5.5 2.9 4.3#

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3/30/2021 7:44:14 PM



#20

Methylene Chloride

Concen: 9.725 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

Tgt Ion: 84 Resp: 681534

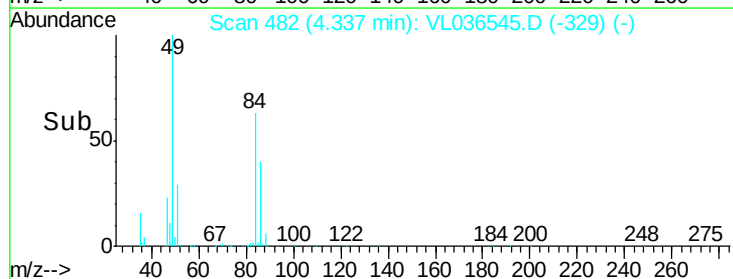
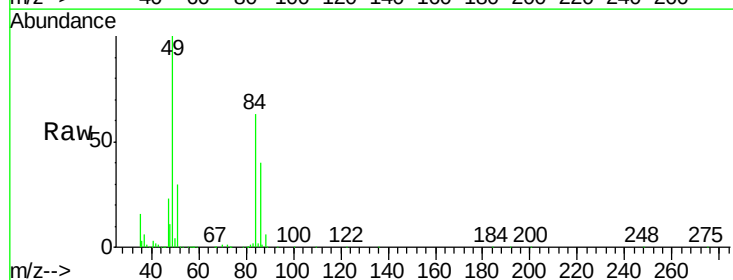
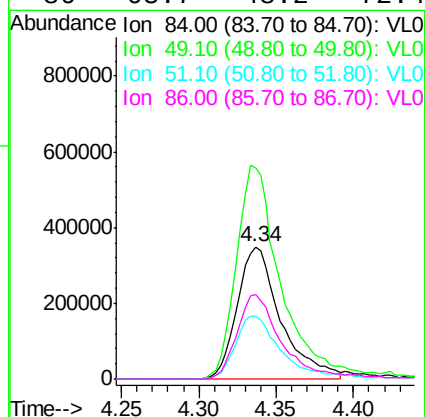
Ion Ratio Lower Upper

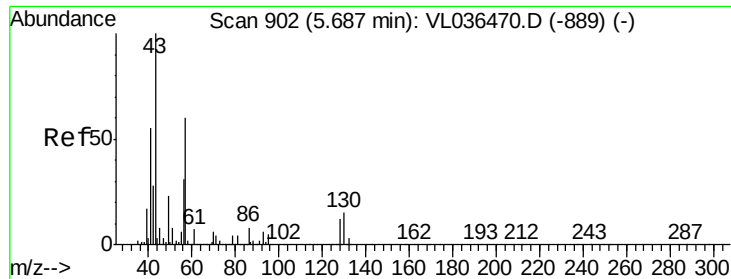
84 100

49 159.3 122.9 184.3

51 47.1 36.9 55.3

86 63.7 48.2 72.4





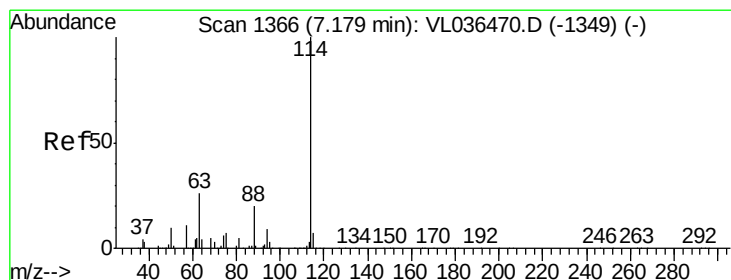
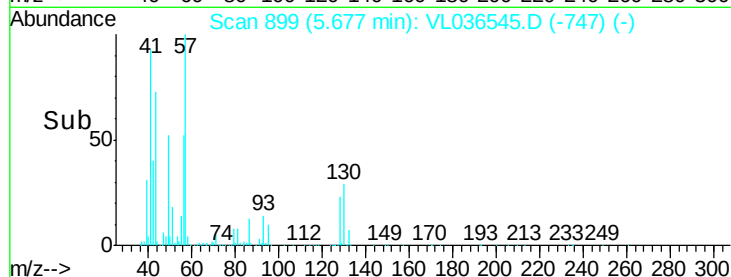
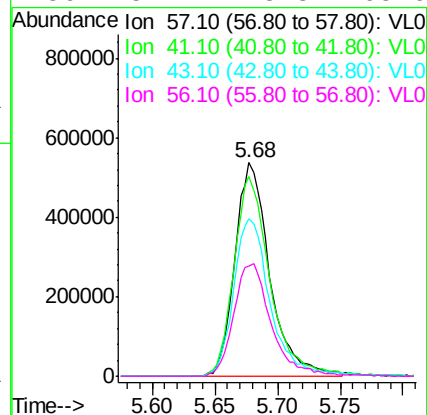
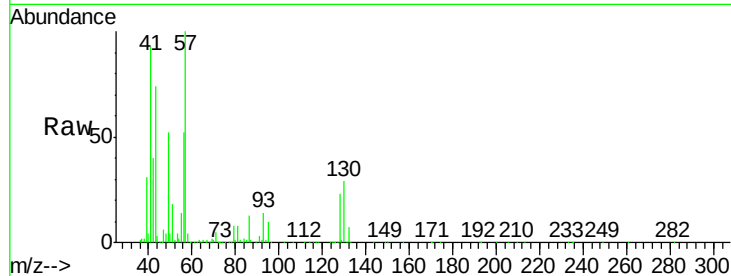
#26
Hexane
Concen: 6.278 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHER-RM

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.4	77.2	115.8
43	78.0	173.8	260.6#
56	57.2	43.8	65.6

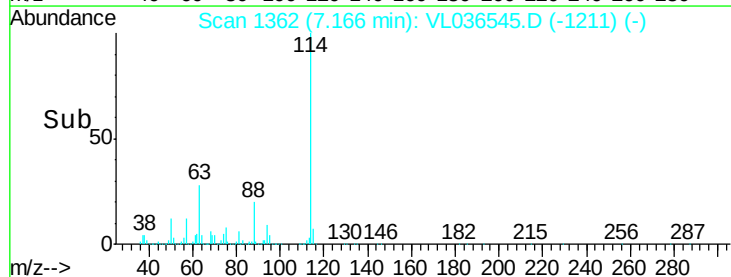
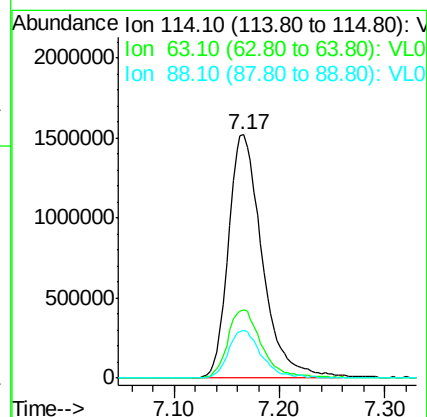
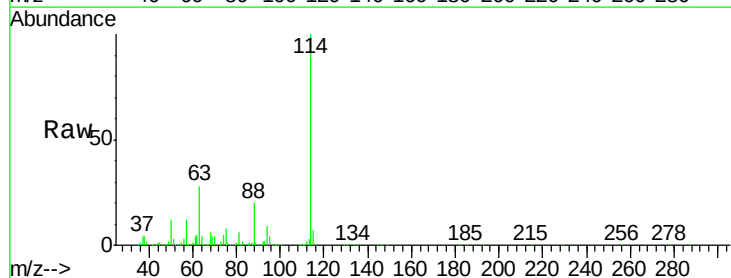
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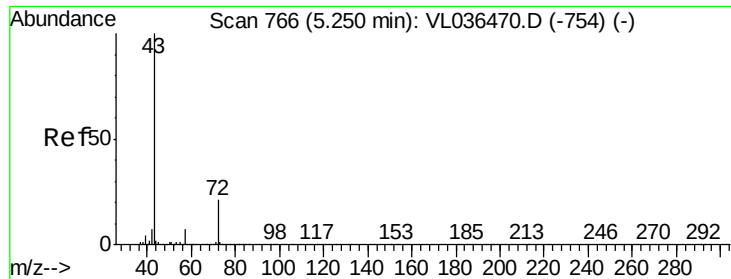
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.01 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.4	33.6
88	19.3	15.4	23.0





#34

2-Butanone

Concen: 0.525 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHER-RM

Tot Ion: 43 Resp: 86517

Ion Ratio Lower Upper

43 100

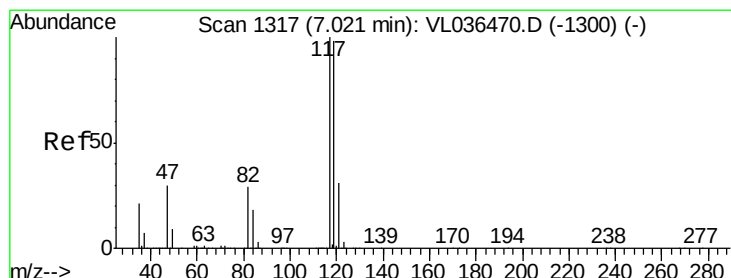
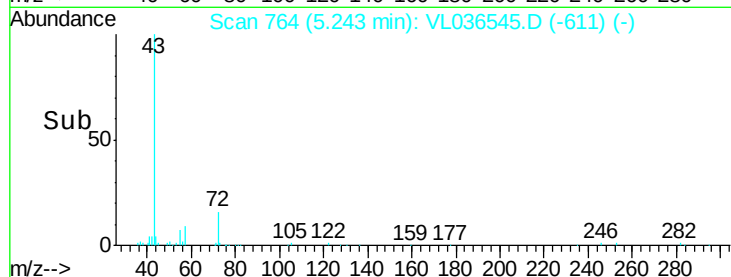
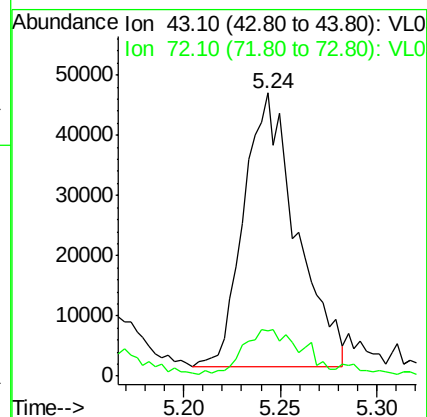
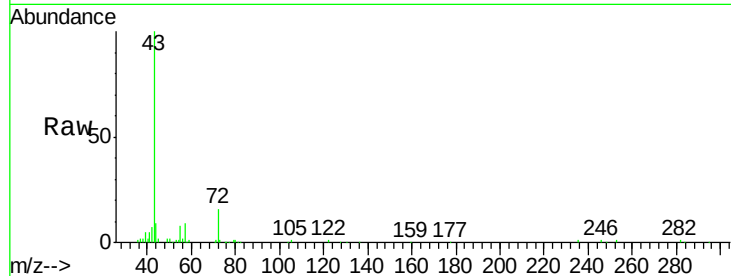
72 21.9 17.0 25.6

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.056 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL036545.D

Acq: 29 Mar 2021 18:50

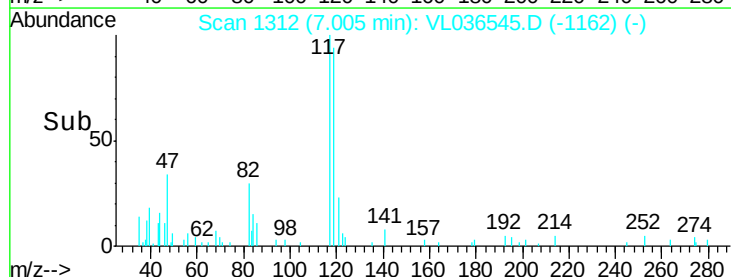
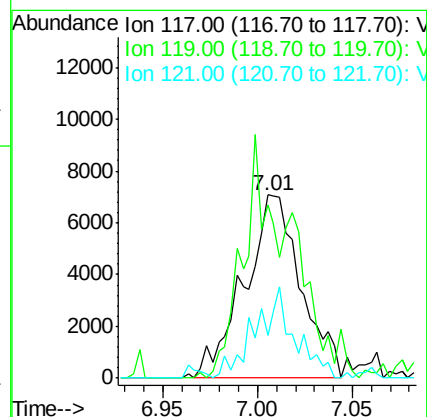
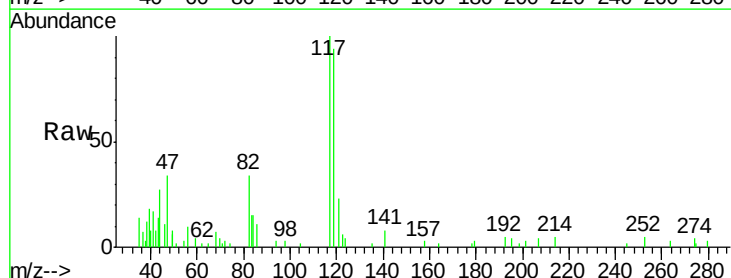
Tgt Ion: 117 Resp: 14646

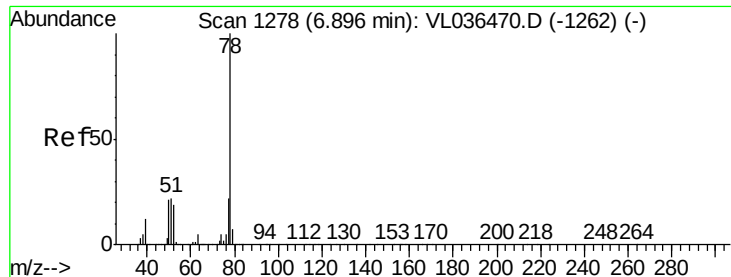
Ion Ratio Lower Upper

117 100

119 94.1 78.2 117.2

121 22.9 24.5 36.7#





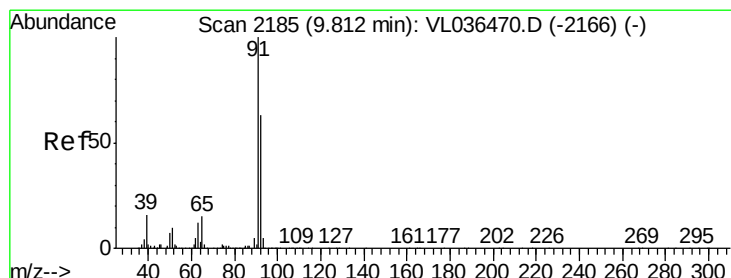
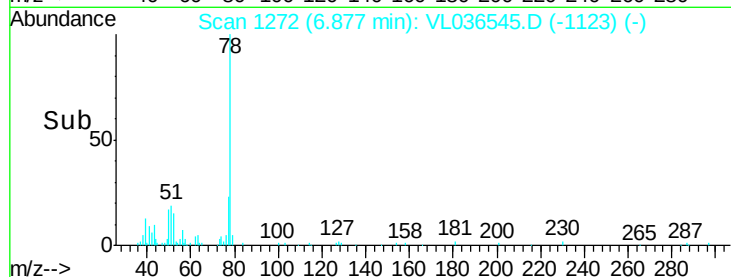
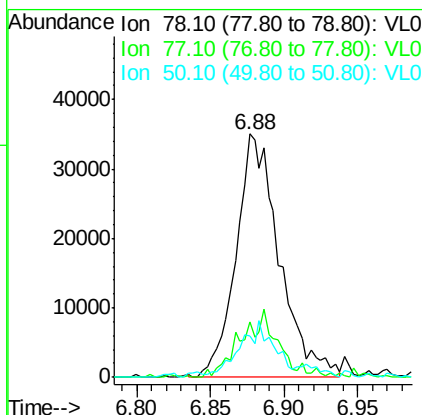
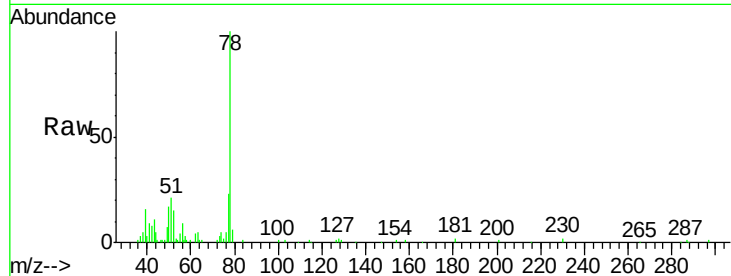
#36
Benzene
Concen: 0.229 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHER-RM

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.0	27.0
50	17.0	16.5	24.7

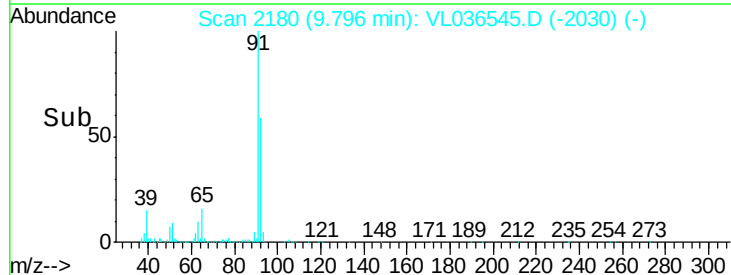
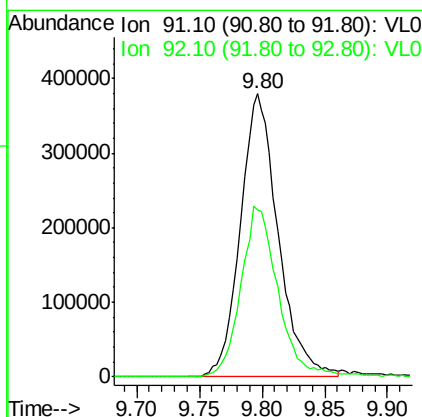
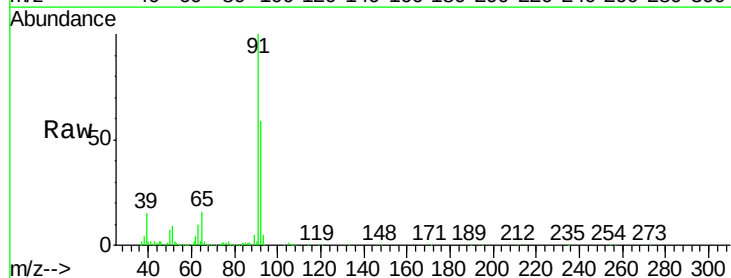
Manual Integrations
APPROVED

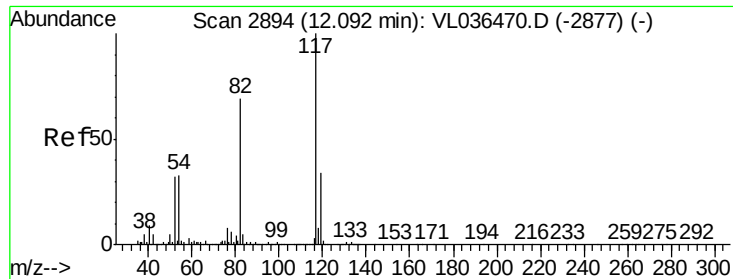
MMDadoda
3/30/2021 7:44:14 PM



#53
Toluene
Concen: 2.392 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.8	73.2





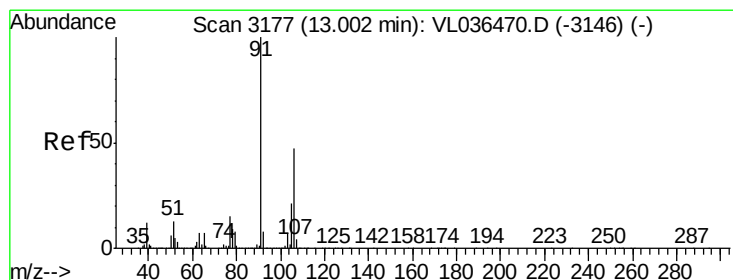
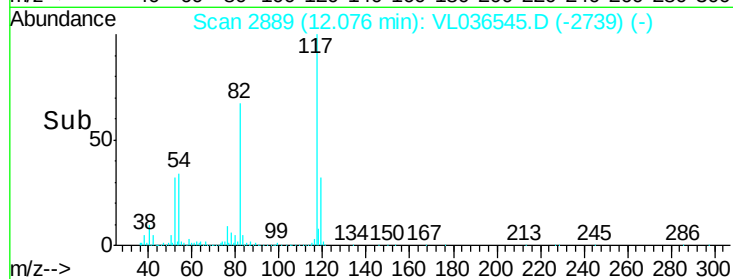
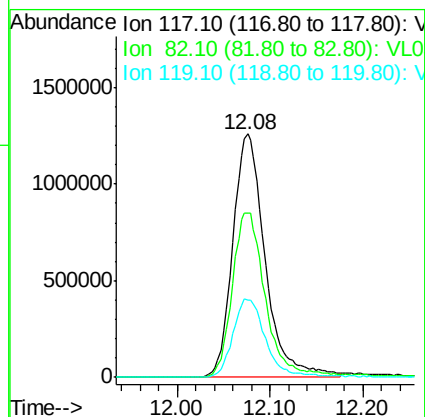
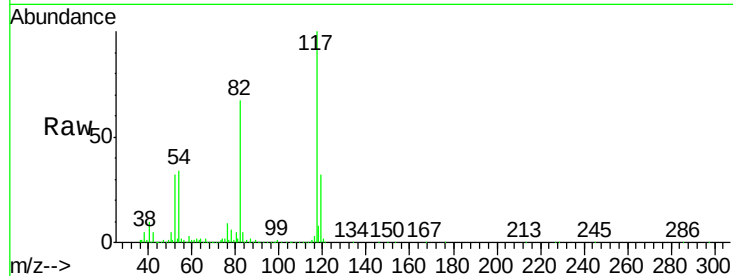
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.02 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHER-RM

Tot Ion:117 Resp: 3053876
Ion Ratio Lower Upper
117 100
82 71.3 57.4 86.0
119 33.7 47.4 71.0#

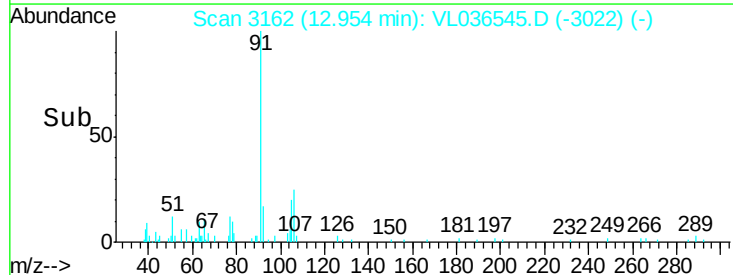
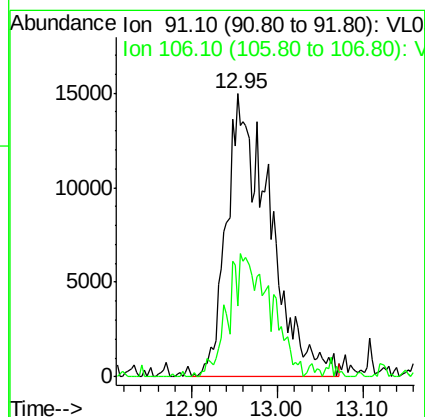
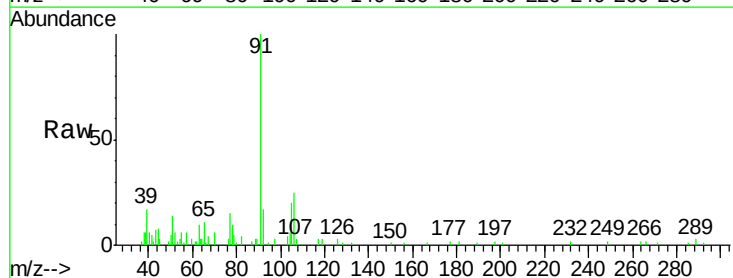
Manual Integrations
APPROVED

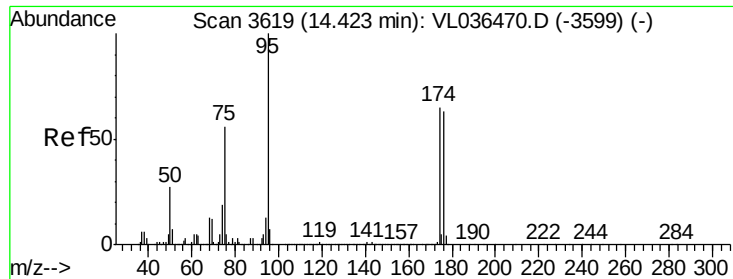
MMDadoda
3/30/2021 7:44:14 PM



#59
m/p-Xylene
Concen: 0.136 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.05 min
Lab File: VL036545.D
Acq: 29 Mar 2021 18:50

Tgt Ion: 91 Resp: 52599
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.046 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.02 min
 Lab File: VL036545.D
 Acq: 29 Mar 2021 18:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-PRE-K-TEACHER-RM

Tot Ion	Ratio	Lower	Upper
95	100		
174	64.0	51.0	76.6
175	4.7	3.9	5.9

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:44:14 PM

