

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033472.D
 Acq On : 27 Mar 2019 17:25
 Operator : SY/AP
 Sample : K2042-11
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:50 AM

Quant Time: Mar 31 11:09:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	724922	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1690624	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1644721	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1302035	10.10	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	26554	0.251	ppbv	93
4) Chloromethane	3.17	50	23110	0.523	ppbv	91
9) Propene	3.05	41	28420m	0.811	ppbv	
11) Trichlorofluoromethane	4.00	101	37679	0.289	ppbv	93
13) Ethanol	3.65	45	809535	89.259	ppbv	65
15) Acetone	3.89	43	1181125	13.551	ppbv	99
19) Isopropyl Alcohol	4.03	45	181070	3.284	ppbv #	1
20) Methylene Chloride	4.40	84	881526	23.825	ppbv	96
26) Hexane	5.77	57	587620	8.172	ppbv #	40
34) 2-Butanone	5.33	43	28664	0.282	ppbv	97
36) Benzene	6.99	78	30638	0.216	ppbv #	91
53) Toluene	9.94	91	1870090	11.345	ppbv	100
58) Ethyl Benzene	13.11	91	25112	0.114	ppbv	92
59) m/p-Xylene	13.11	91	38955m	0.199	ppbv	
60) o-Xylene	13.85	91	13965m	0.074	ppbv	

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

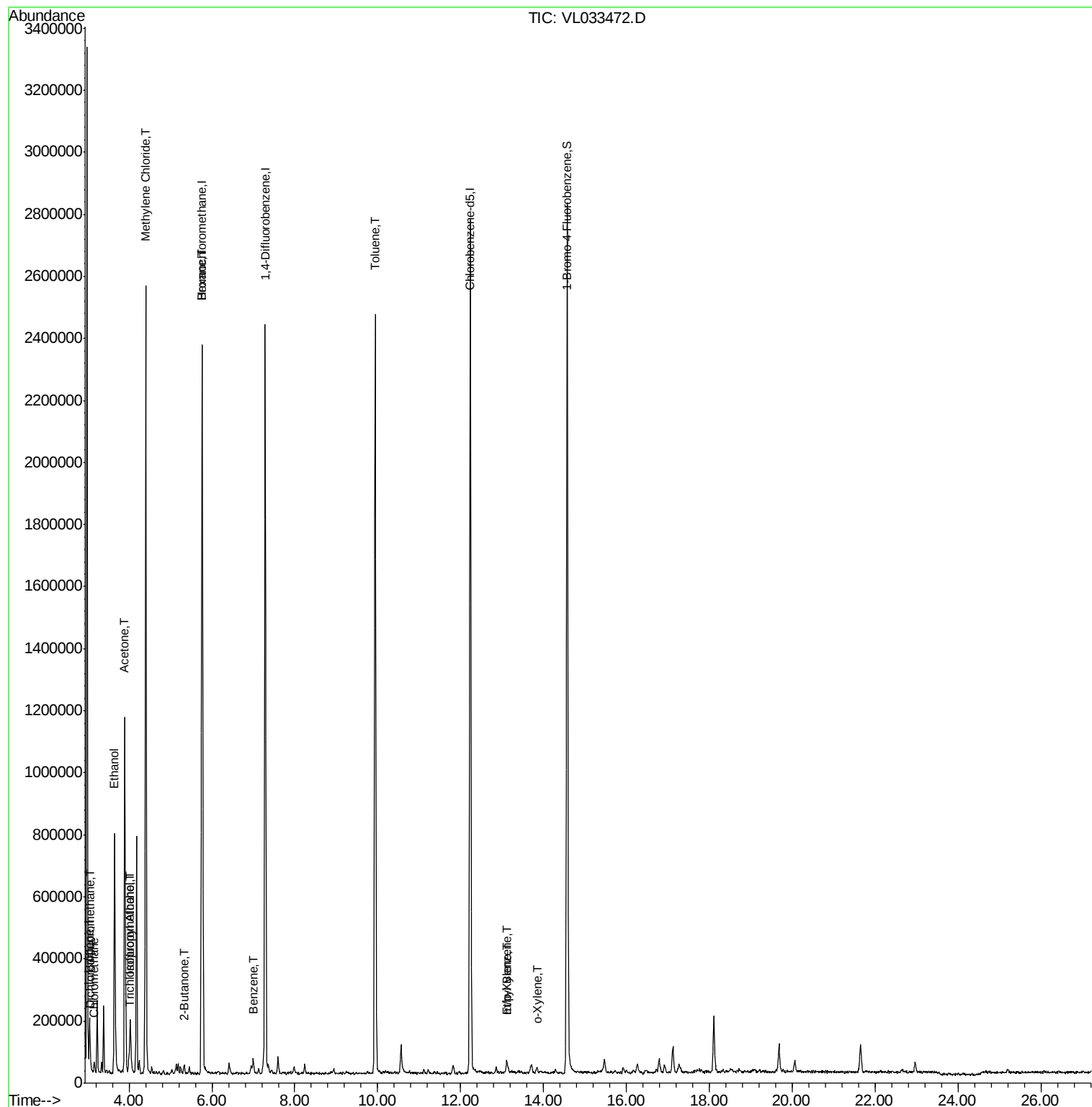
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033472.D
Acq On : 27 Mar 2019 17:25
Operator : SY/AP
Sample : K2042-11
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

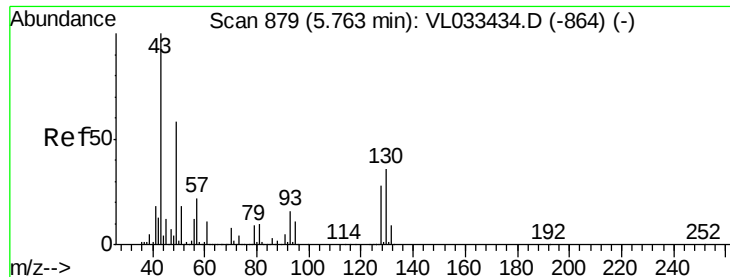
Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHERS-RM

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:25:50 AM

Quant Time: Mar 31 11:09:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033472.D

Acq: 27 Mar 2019 17:25

Instrument :

MSVOA_L

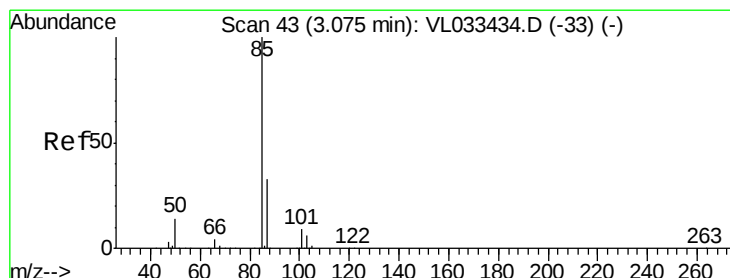
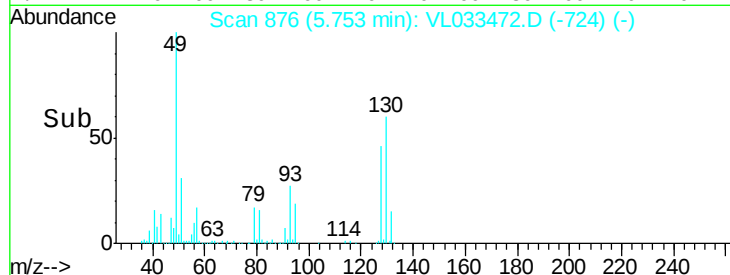
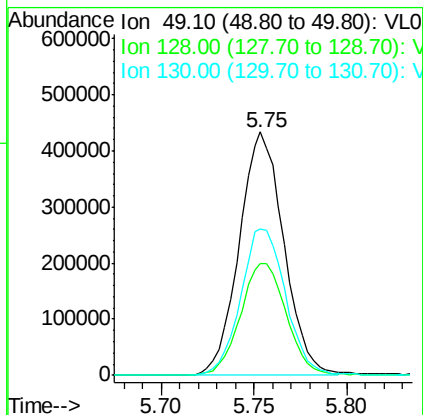
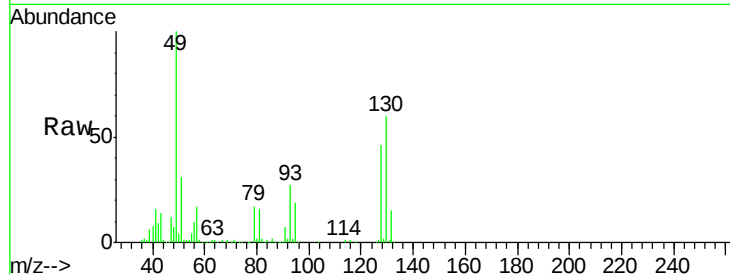
ClientSampleId :

IAS-9-PRE-K-TEACHERS-RM

Tot Ion:	49	Resp:	724922
Ion Ratio	Lower	Upper	
49	100		
128	47.7	24.0	72.0
130	61.4	31.2	93.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:25:50 AM



#2

Dichlorodifluoromethane

Concen: 0.251 ppbv

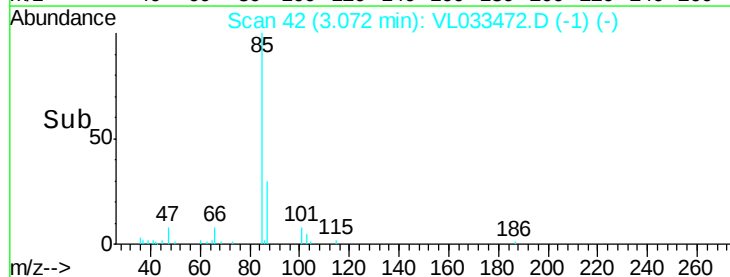
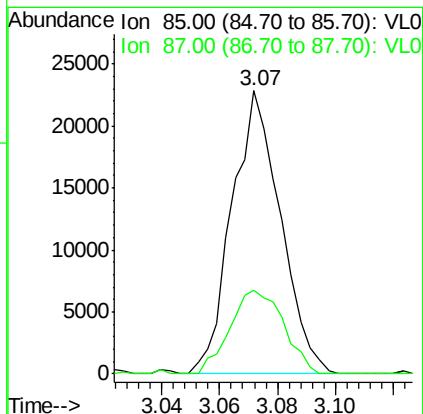
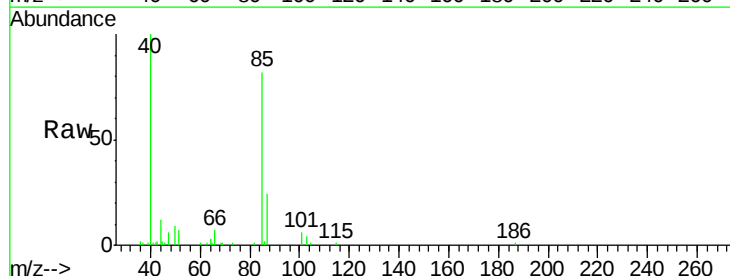
RT: 3.07 min Scan# 42

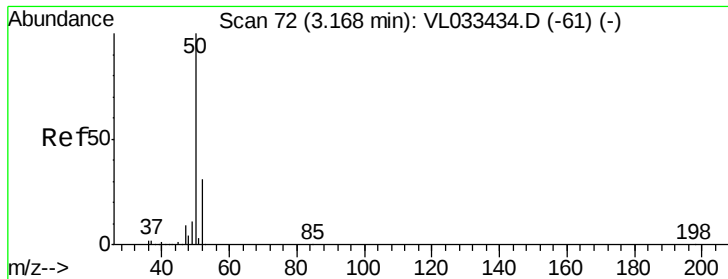
Delta R.T. -0.00 min

Lab File: VL033472.D

Acq: 27 Mar 2019 17:25

Tgt Ion:	85	Resp:	26554
Ion Ratio	Lower	Upper	
85	100		
87	29.6	26.7	40.1





#4

Chloromethane

Concen: 0.523 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033472.D

Acq: 27 Mar 2019 17:25

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHERS-RM

Tot Ion: 50 Resp: 23110

Ion Ratio Lower Upper

50 100

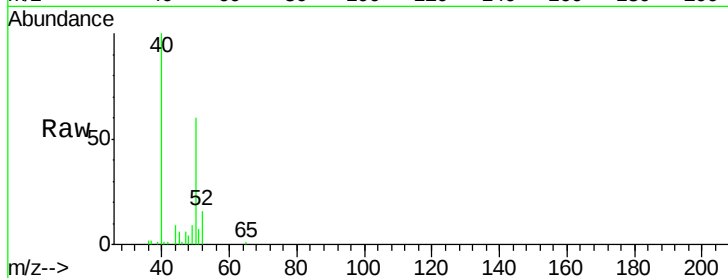
52 26.1 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:25:50 AM



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

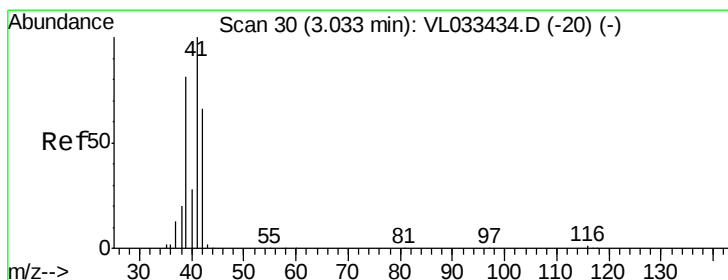
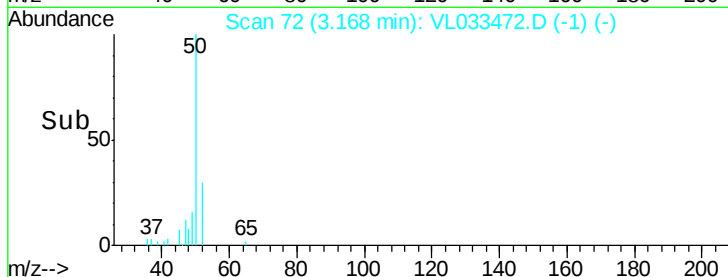
15000

10000

5000

0

Time--> 3.12 3.14 3.16 3.18 3.20



#9

Propene

Concen: 0.811 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033472.D

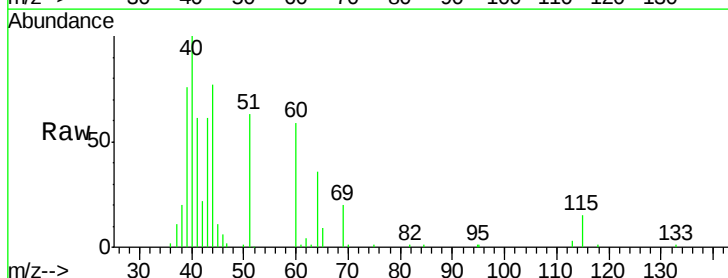
Acq: 27 Mar 2019 17:25

Tgt Ion: 41 Resp: 28420

Ion Ratio Lower Upper

41 100

42 143.1 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.05

20000

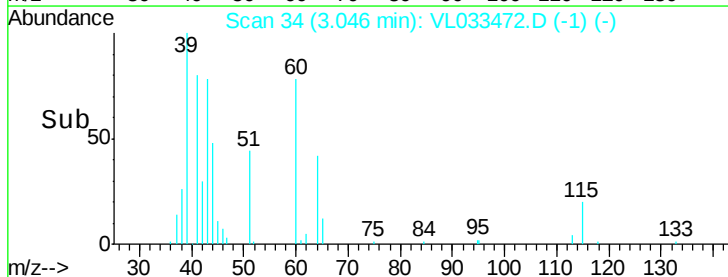
15000

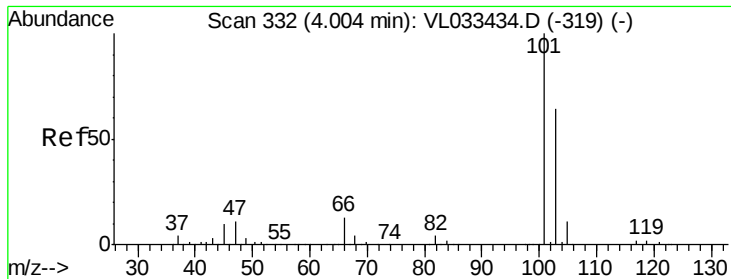
10000

5000

0

Time--> 3.00 3.05 3.10





#11

Trichlorofluoromethane

Concen: 0.289 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033472.D

Acq: 27 Mar 2019 17:25

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHERS-RM

Tot Ion:101 Resp: 37679

Ion Ratio Lower Upper

101 100

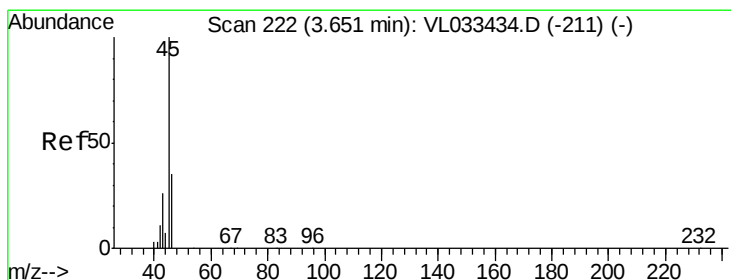
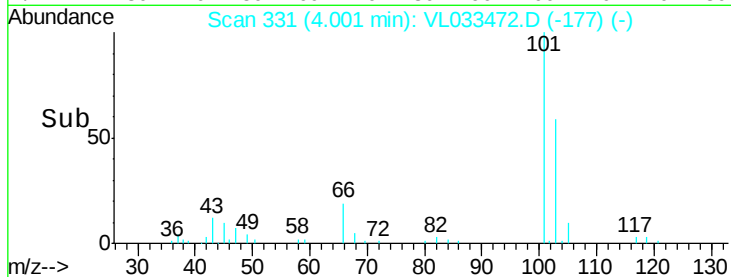
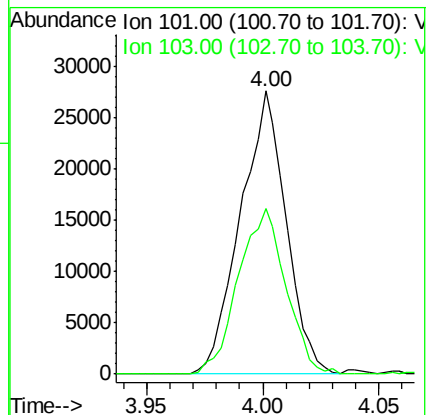
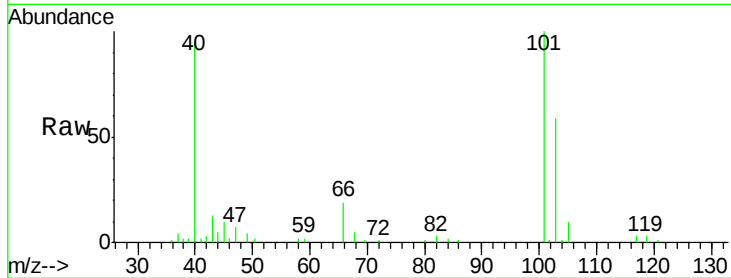
103 58.5 51.3 76.9

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:25:50 AM



#13

Ethanol

Concen: 89.259 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033472.D

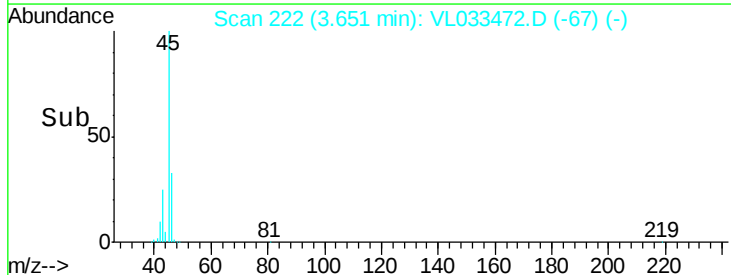
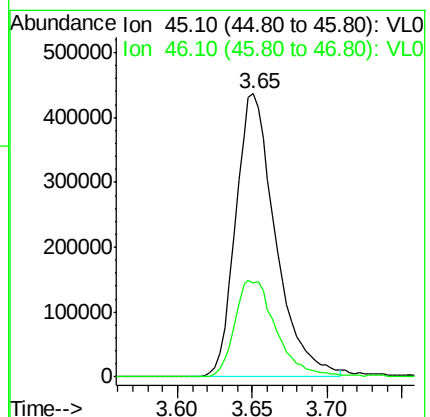
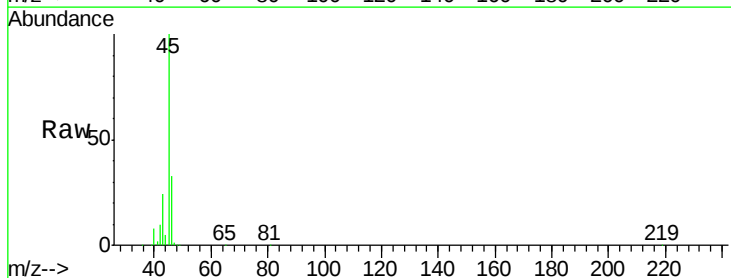
Acq: 27 Mar 2019 17:25

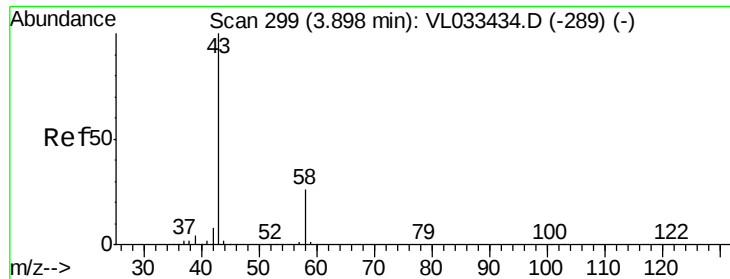
Tgt Ion: 45 Resp: 809535

Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8





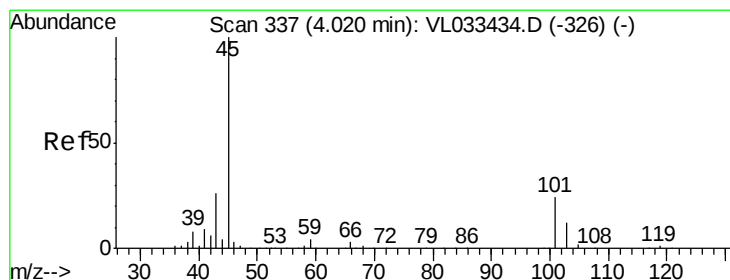
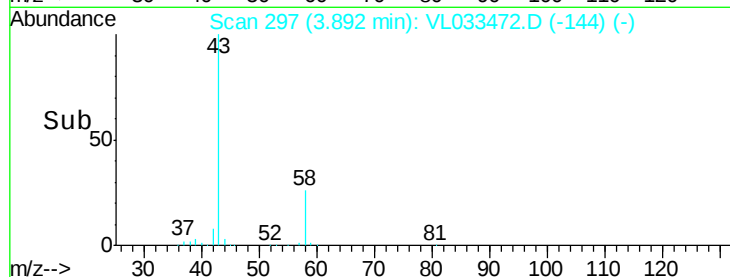
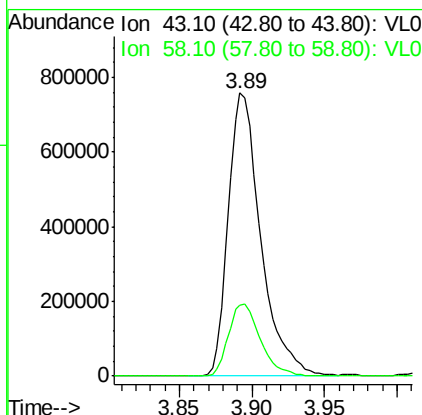
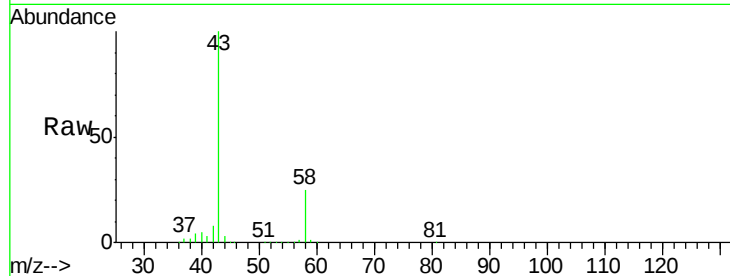
#15
Acetone
Concen: 13.551 ppbv
RT: 3.89 min Scan# 297
Delta R.T. -0.01 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

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

Tot Ion: 43 Resp: 1181125
Ion Ratio Lower Upper
43 100
58 25.1 20.5 30.7

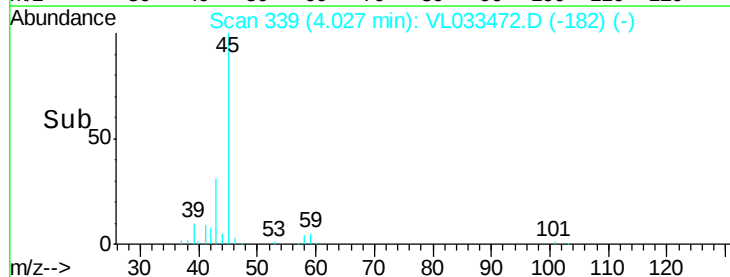
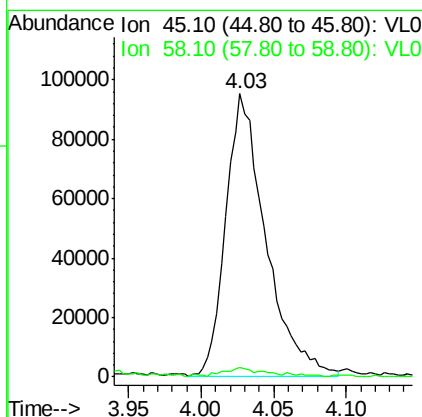
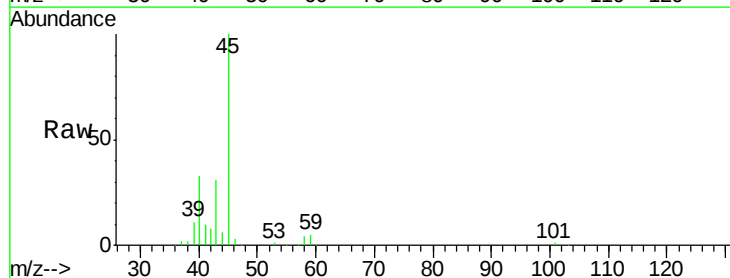
Manual Integrations
APPROVED

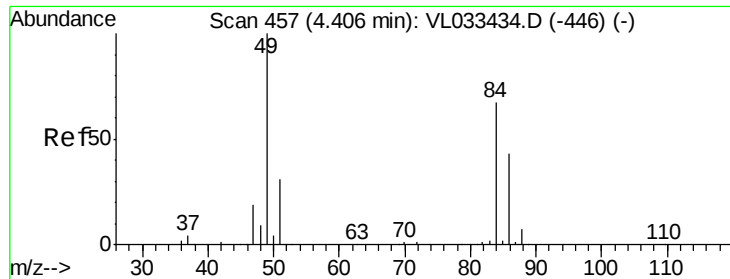
MMDadoda
4/1/2019 1:25:50 AM



#19
Isopropyl Alcohol
Concen: 3.284 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.01 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

Tgt Ion: 45 Resp: 181070
Ion Ratio Lower Upper
45 100
58 163.6 1.4 2.2#





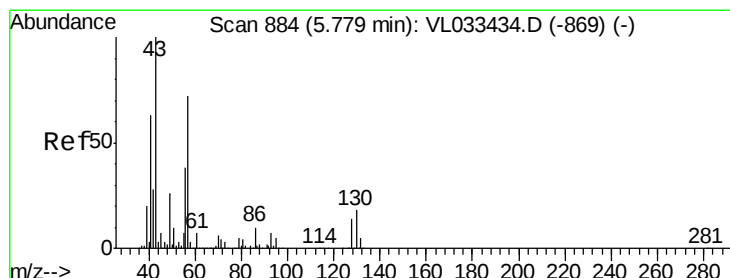
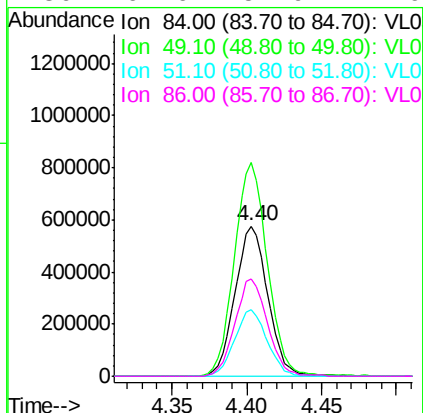
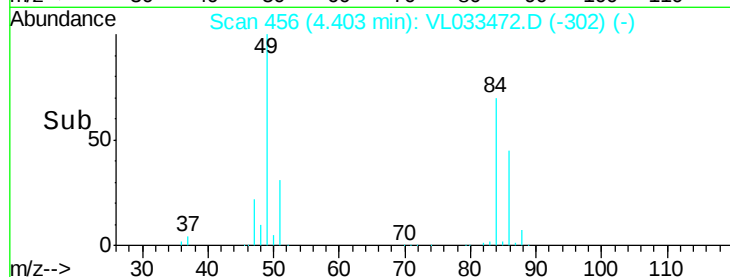
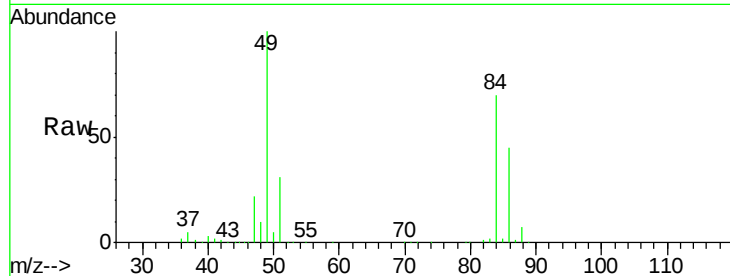
#20
Methvlene Chloride
Concen: 23.825 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

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

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	142.1	120.0	180.0	
51	44.0	36.7	55.1	
86	64.6	51.9	77.9	

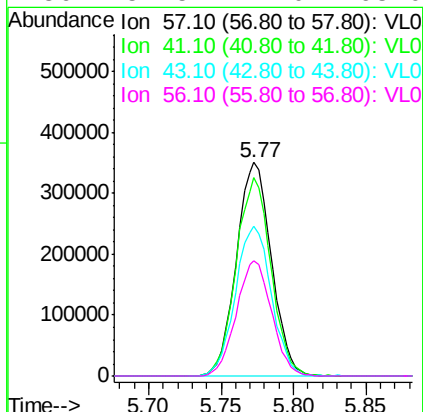
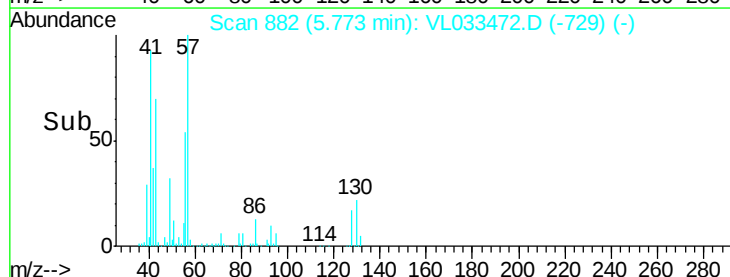
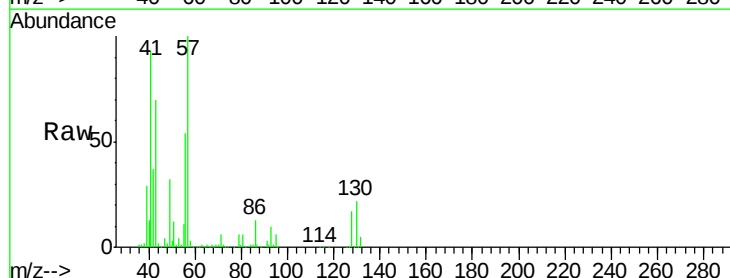
Manual Integrations
APPROVED

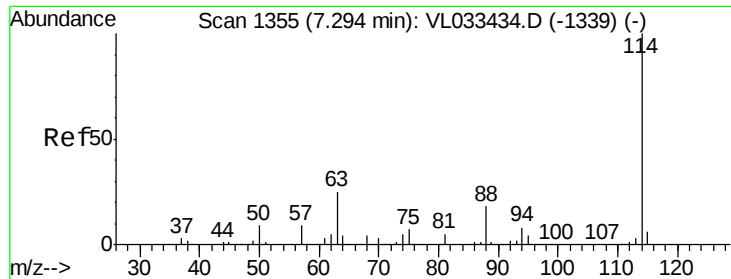
MMDadoda
4/1/2019 1:25:50 AM



#26
Hexane
Concen: 8.172 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	92.7	70.7	106.1	
43	72.5	182.6	274.0	
56	54.5	42.0	63.0	





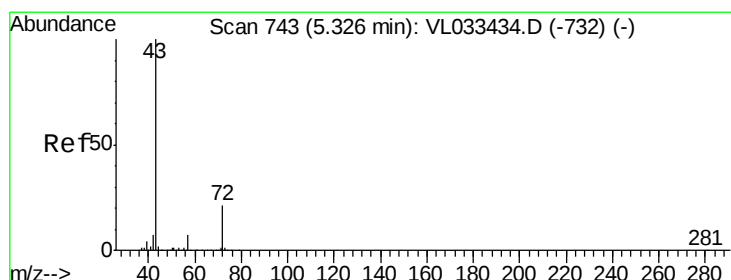
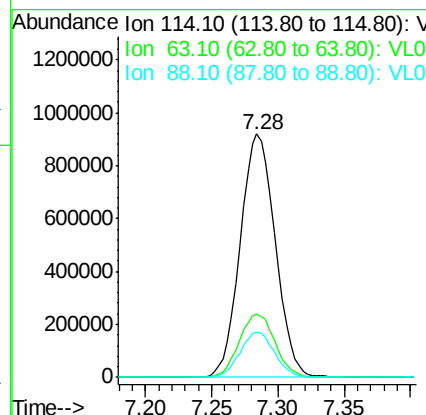
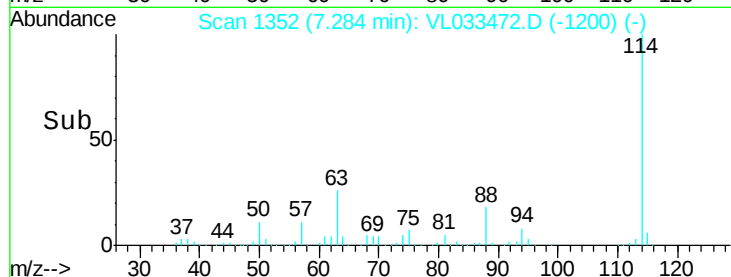
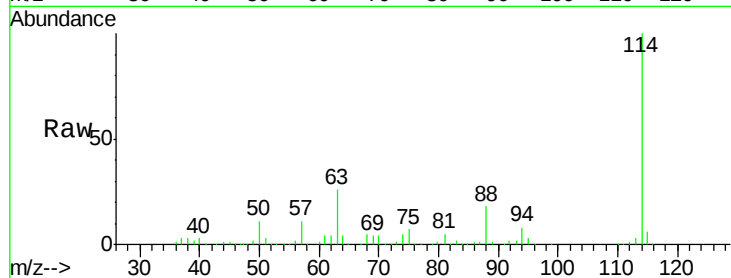
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033472.D
 Acq: 27 Mar 2019 17:25

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.5	32.3
88	18.4	14.5	21.7

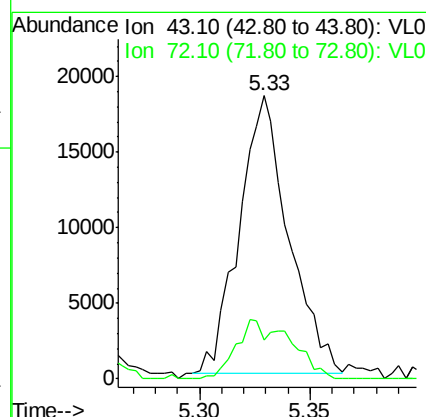
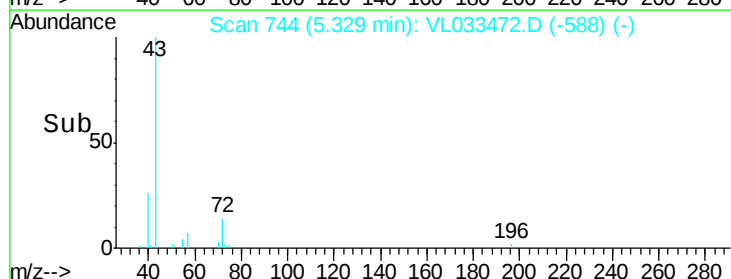
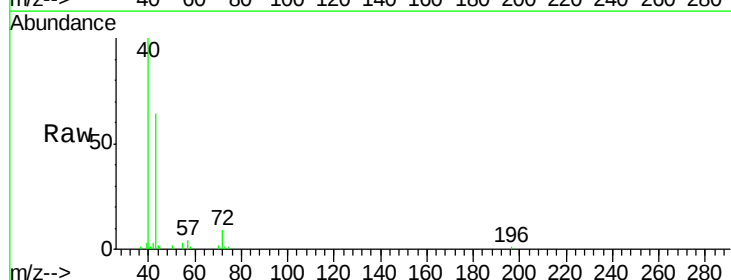
Manual Integrations
 APPROVED

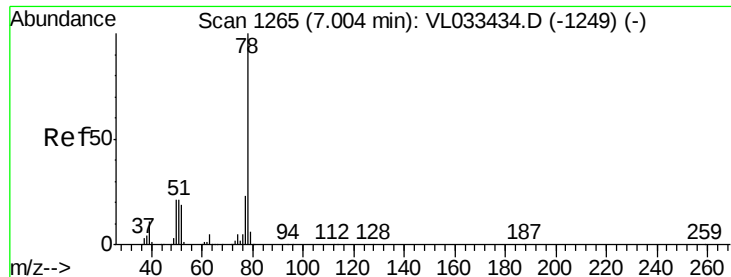
MMDadoda
 4/1/2019 1:25:50 AM



#34
 2-Butanone
 Concen: 0.282 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033472.D
 Acq: 27 Mar 2019 17:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.4	26.2





#36

Benzene

Concen: 0.216 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033472.D

Acq: 27 Mar 2019 17:25

Instrument :

MSVOA_L

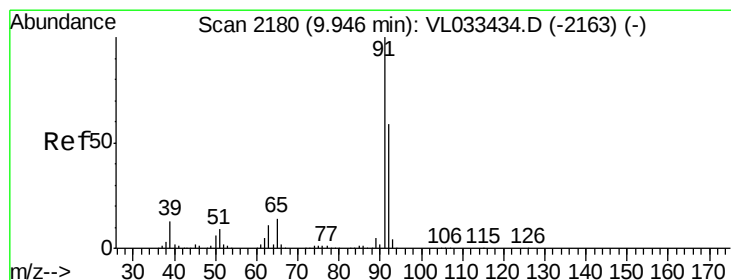
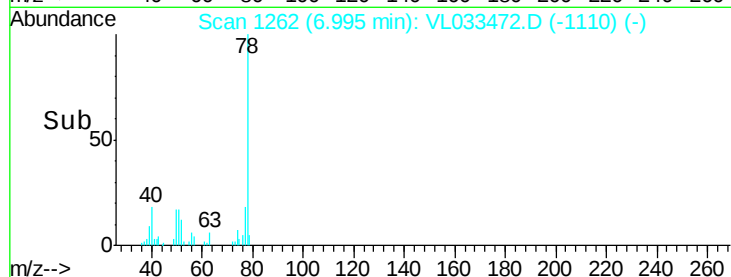
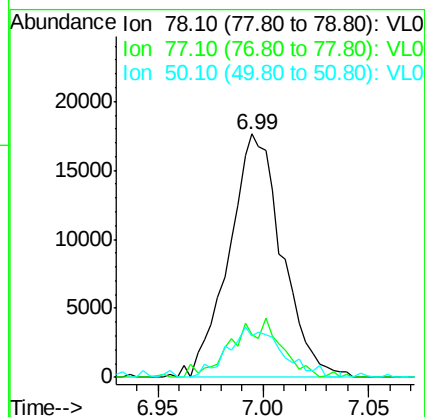
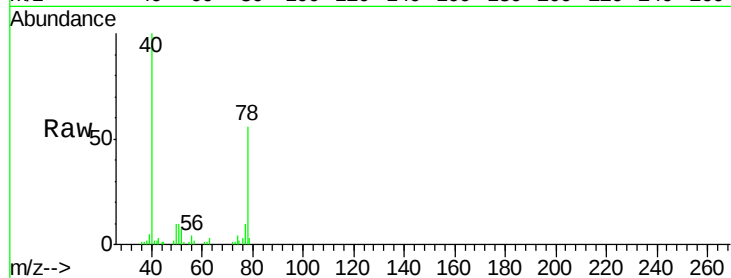
ClientSampleId :

IAS-9-PRE-K-TEACHERS-RM

Tot Ion:	78	Resp:	30638
Ion	Ratio	Lower	Upper
78	100		
77	17.6	18.1	27.1#
50	17.2	16.7	25.1

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:25:50 AM



#53

Toluene

Concen: 11.345 ppbv

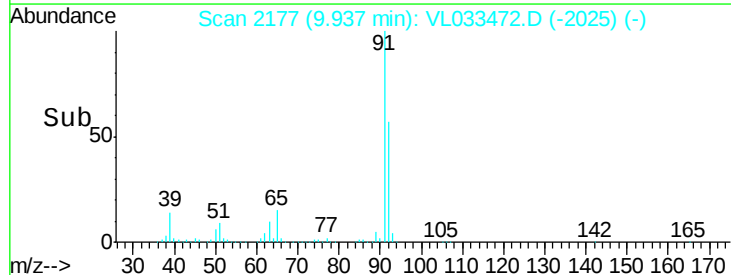
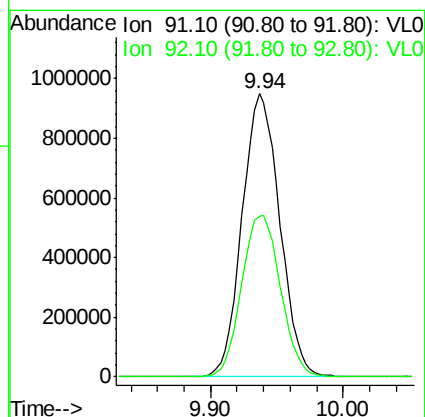
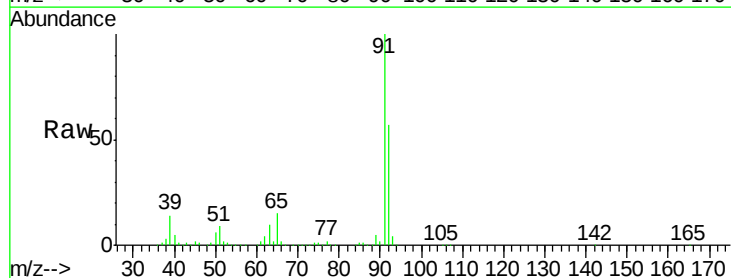
RT: 9.94 min Scan# 2177

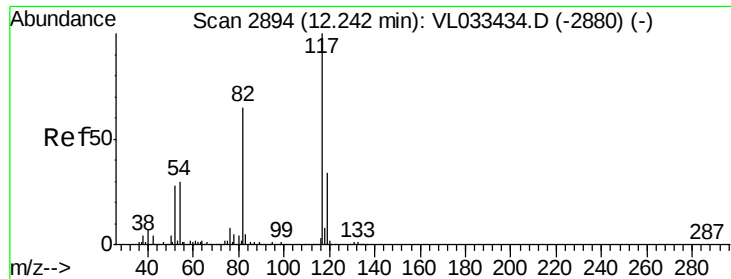
Delta R.T. -0.01 min

Lab File: VL033472.D

Acq: 27 Mar 2019 17:25

Tgt Ion:	91	Resp:	1870090
Ion	Ratio	Lower	Upper
91	100		
92	59.1	47.4	71.0





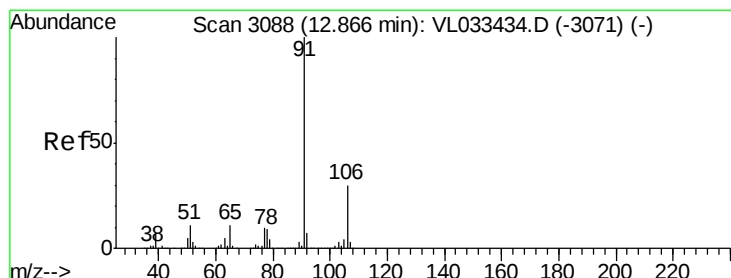
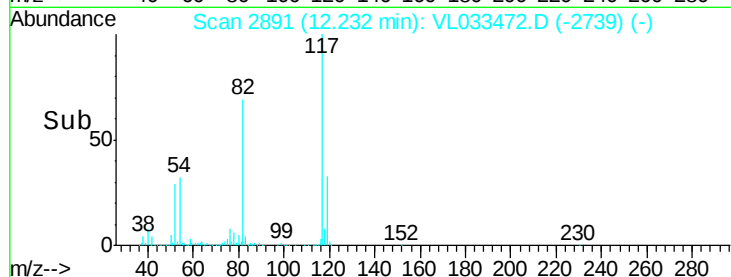
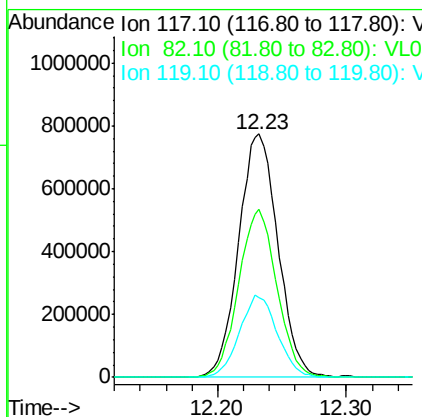
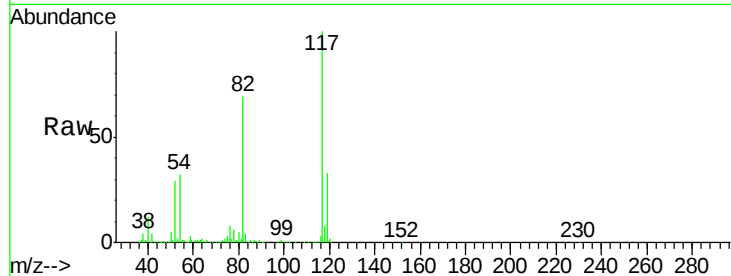
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.5	51.5	77.3
119	32.6	25.5	38.3

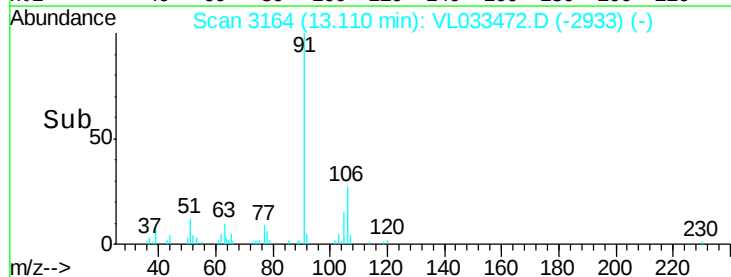
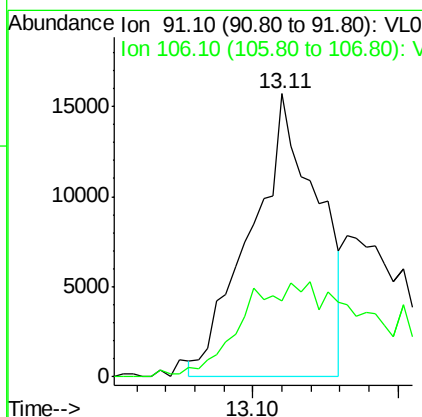
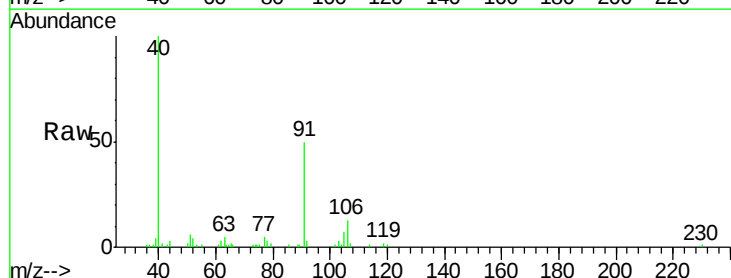
Manual Integrations
APPROVED

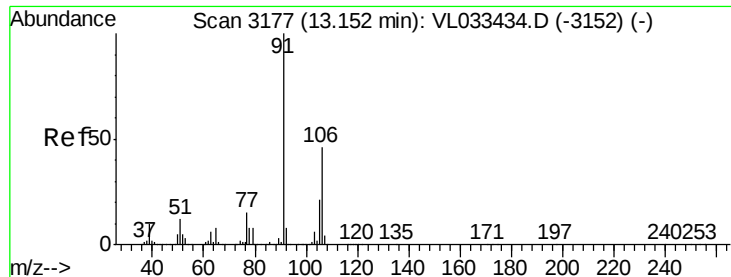
MMDadoda
4/1/2019 1:25:50 AM



#58
Ethyl Benzene
Concen: 0.114 ppbv
RT: 13.11 min Scan# 3164
Delta R.T. 0.24 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.3	23.8	35.6





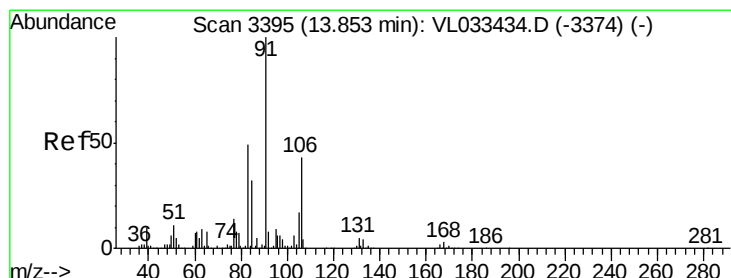
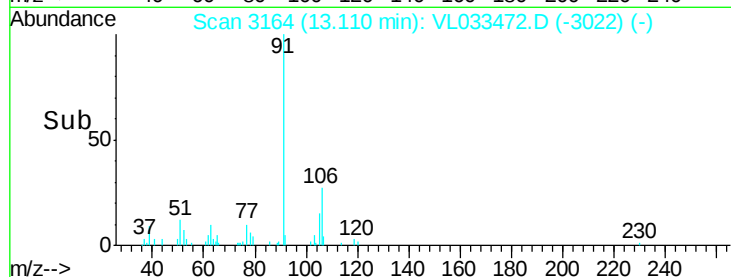
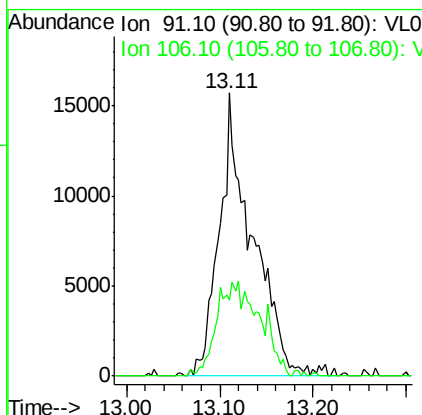
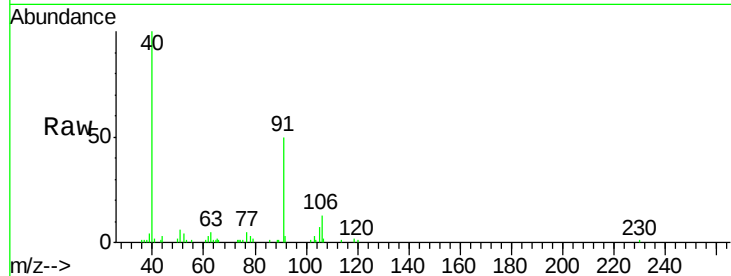
#59
m/p-Xylene
Concen: 0.199 ppbv m
RT: 13.11 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

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

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

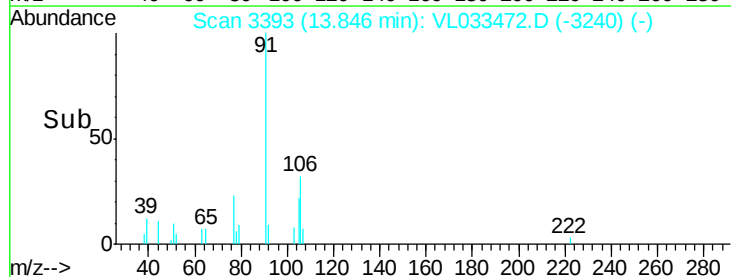
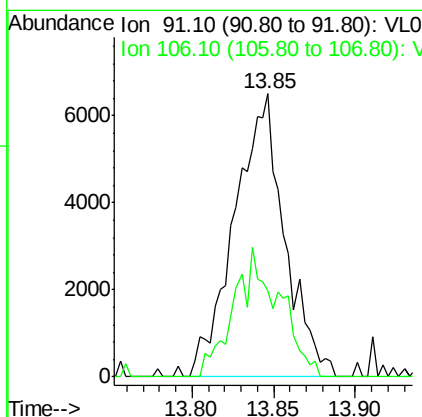
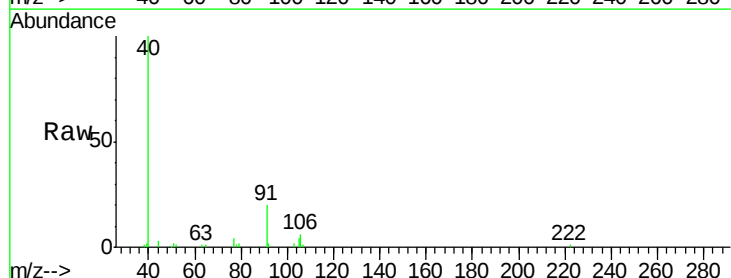
Manual Integrations
APPROVED

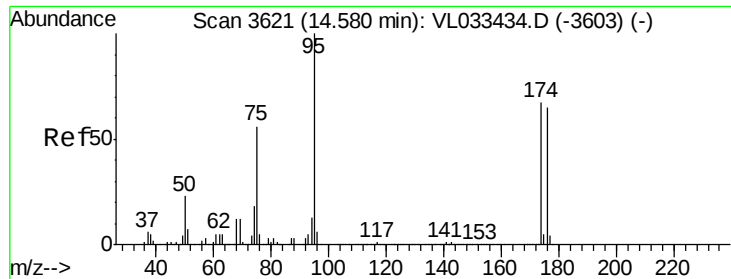
MMDadoda
4/1/2019 1:25:50 AM



#60
o-Xylene
Concen: 0.074 ppbv m
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033472.D
Acq: 27 Mar 2019 17:25

Tgt Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.4	64.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.098 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL033472.D
 Acq: 27 Mar 2019 17:25

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

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.5	52.9	79.3
175	4.8	3.8	5.6

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:50 AM

