

Data File : VL034748.D
Acq On : 28 Feb 2020 22:27
Operator : SY/AP
Sample : L1661-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-7-TEACHER-WORKROOMDL

Quant Time: Mar 02 04:37:05 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 01:15:02 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	5.66	49	1025773	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2136242	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2090281	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1751245	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.93	51	933511	8.433	ppbv #	58
4) Chloromethane	2.93	50	6979	0.113	ppbv #	1
7) Chloroethane	3.53	64	576	0.026	ppbv #	41
13) Ethanol	3.57	45	268070	18.338	ppbv	96
15) Acetone	3.83	43	241149	2.063	ppbv	98
16) 1,3-Butadiene	3.27	39	4361	0.081	ppbv #	22
17) tert-Butyl alcohol	4.29	59	45738	0.511	ppbv #	90
19) Isopropyl Alcohol	3.95	45	449983	6.463	ppbv	100
20) Methylene Chloride	4.33	84	6292	0.145	ppbv	87
25) Ethyl Acetate	5.68	43	4476	0.022	ppbv #	2
29) Chloroform	5.74	83	8835	0.058	ppbv	84
31) cis-1,2-Dichloroethene	5.55	61	7973	0.085	ppbv #	87
34) 2-Butanone	5.24	43	35614	0.265	ppbv	95
38) Trichloroethene	7.84	130	86050	1.210	ppbv	93
39) 1,2-Dichloropropane	7.18	63	585558	7.977	ppbv #	24
53) Toluene	9.83	91	29629	0.151	ppbv #	43
58) Ethyl Benzene	12.73	91	8095	0.032	ppbv	97
69) p-Isopropyltoluene	17.70	119	15481	0.047	ppbv #	46
74) 1,2,4-Trimethylbenzene	16.80	105	6840	0.026	ppbv #	54

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

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SG-7-TEACHER-WORKROOMDL

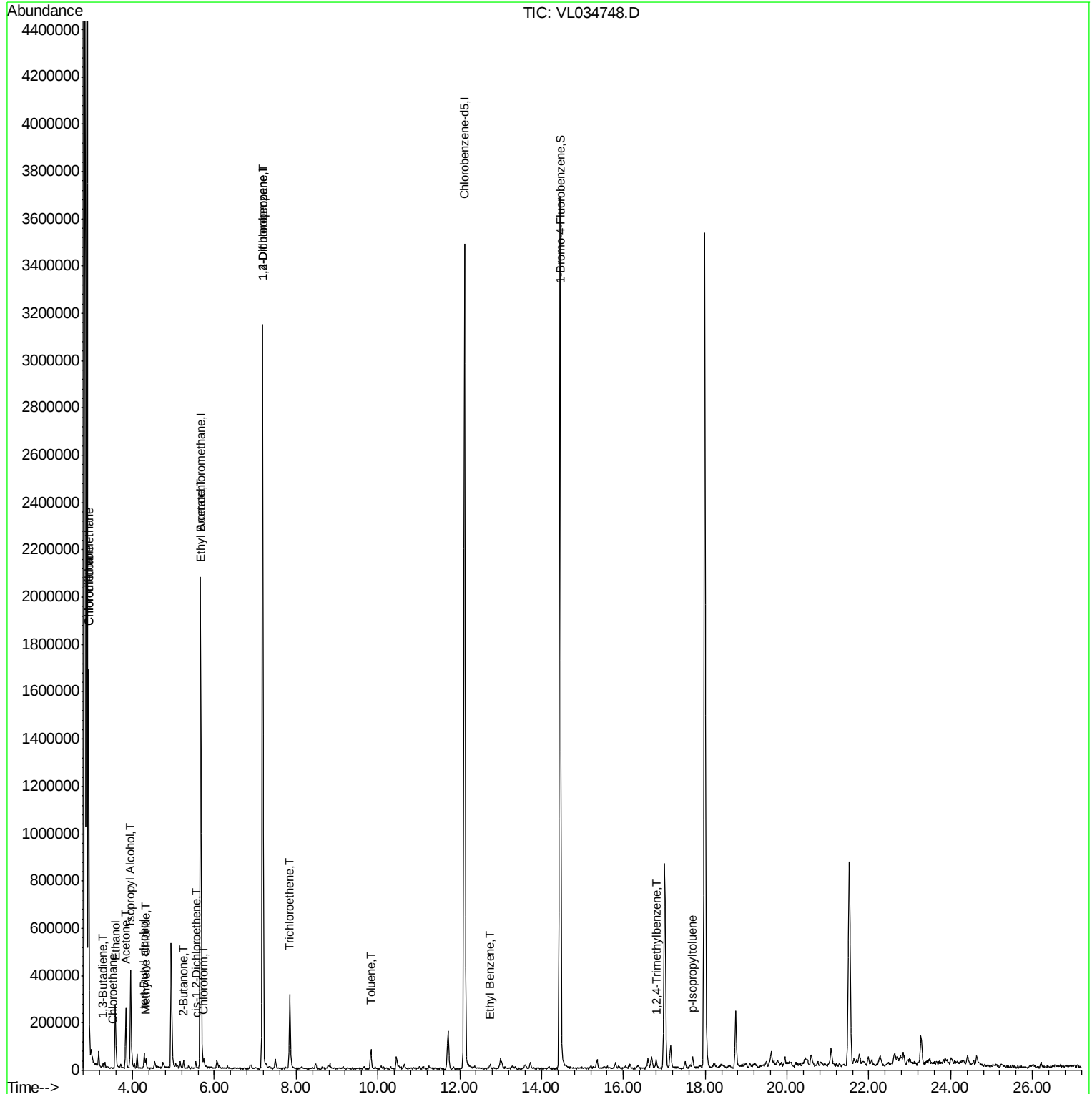
Quant Time: Mar 02 04:37:05 2020

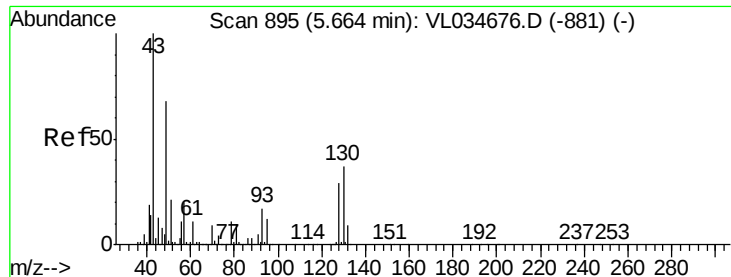
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020

QLast Update : Fri Feb 28 01:15:02 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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MSVOA_L

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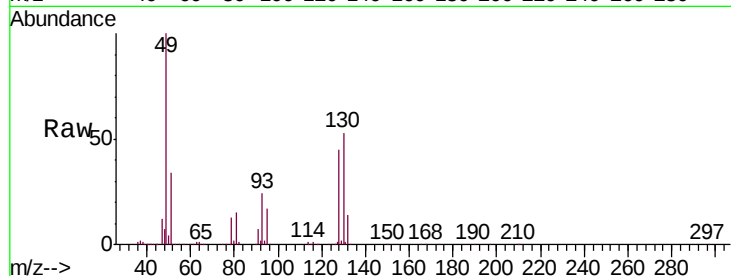
Tgt Ion: 49 Resp: 1025773

Ion Ratio Lower Upper

49 100

128 44.5 21.6 65.0

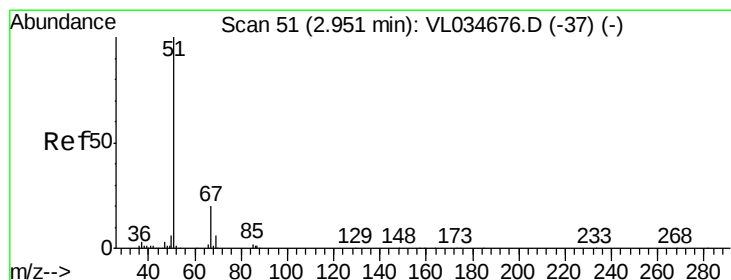
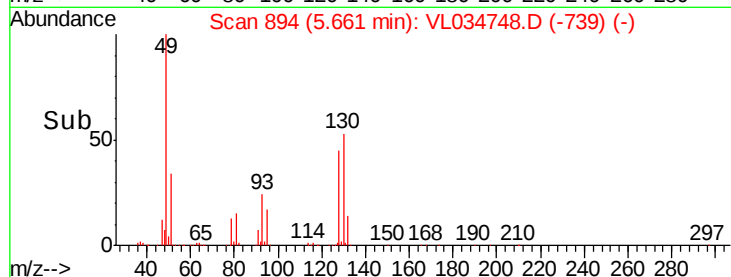
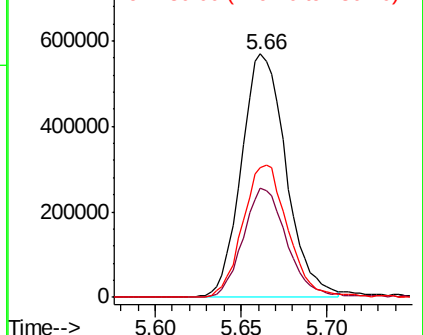
130 55.4 27.7 83.1



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



#3

Chlorodifluoromethane

Concen: 8.433 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.02 min

Lab File: VL034748.D

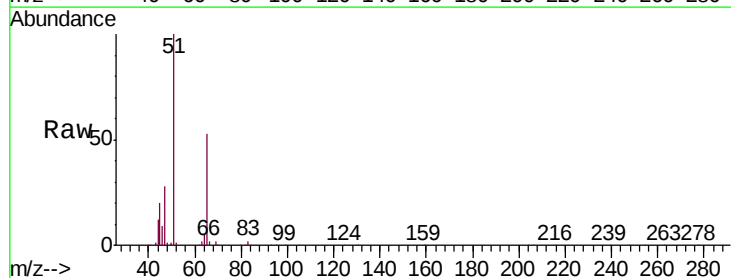
Acq: 28 Feb 2020 22:27

Tgt Ion: 51 Resp: 933511

Ion Ratio Lower Upper

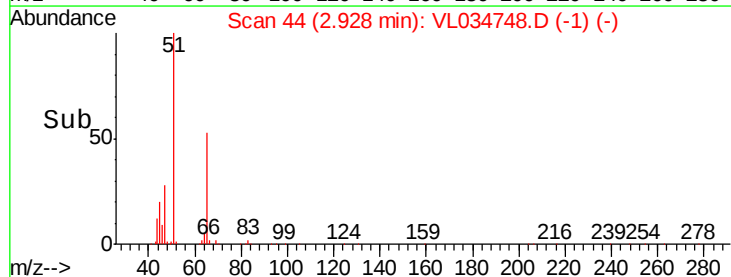
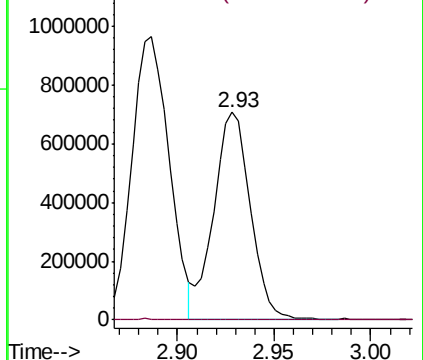
51 100

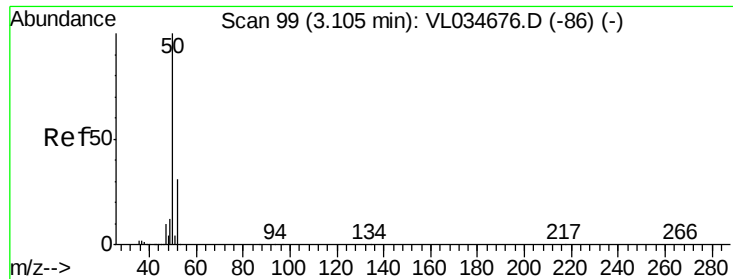
67 0.2 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.113 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.18 min

Lab File: VL034748.D

Acq: 28 Feb 2020 22:27

Instrument :

MSVOA_L

ClientSampleId :

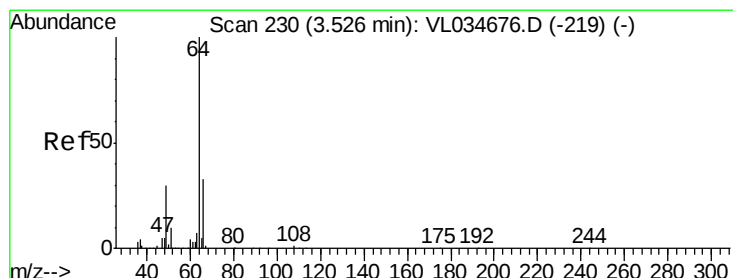
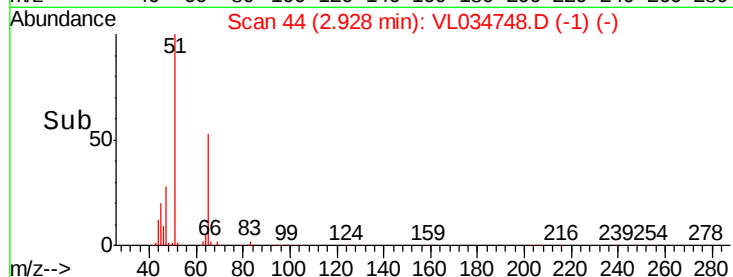
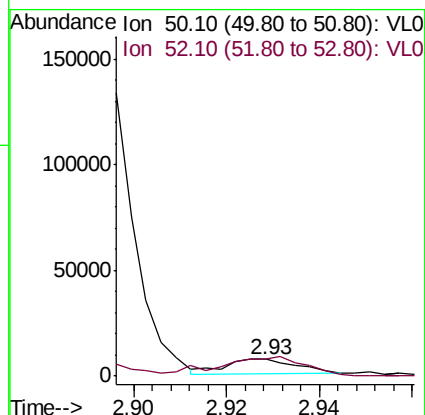
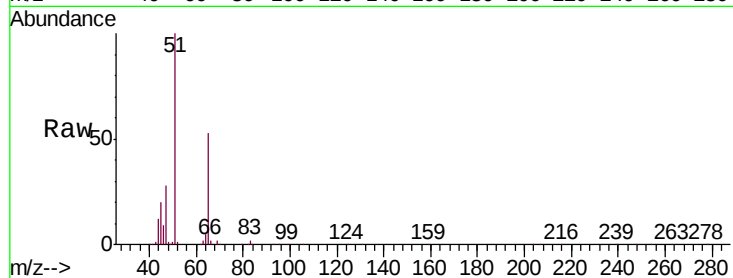
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Tgt Ion: 50 Resp: 6979

Ion Ratio Lower Upper

50 100

52 109.7 25.0 37.4#



#7

Chloroethane

Concen: 0.026 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034748.D

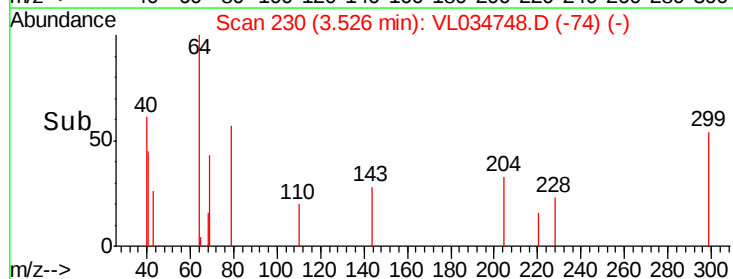
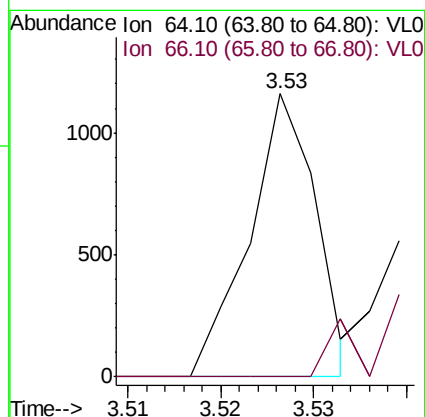
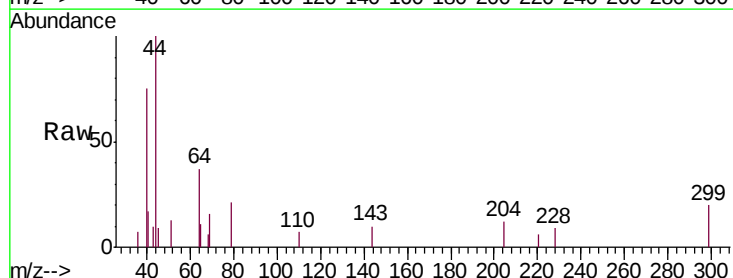
Acq: 28 Feb 2020 22:27

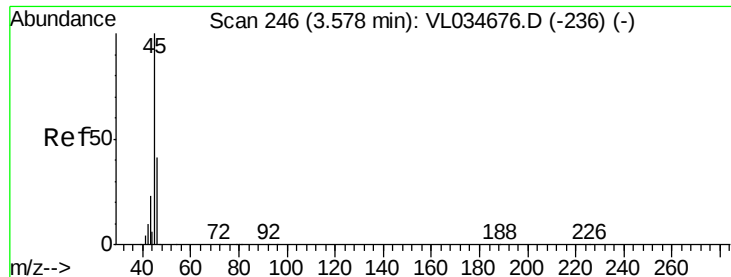
Tgt Ion: 64 Resp: 576

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#





#13

Ethanol

Concen: 18.338 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL034748.D

Acq: 28 Feb 2020 22:27

Instrument :

MSVOA_L

ClientSampleId :

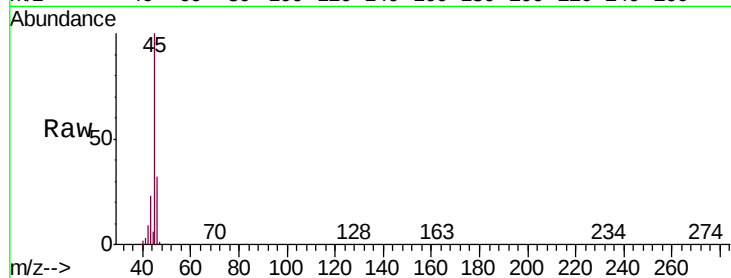
SG-7-TEACHER-WORKROOMDL

Tgt Ion: 45 Resp: 268070

Ion Ratio Lower Upper

45 100

46 35.8 15.4 61.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

150000

100000

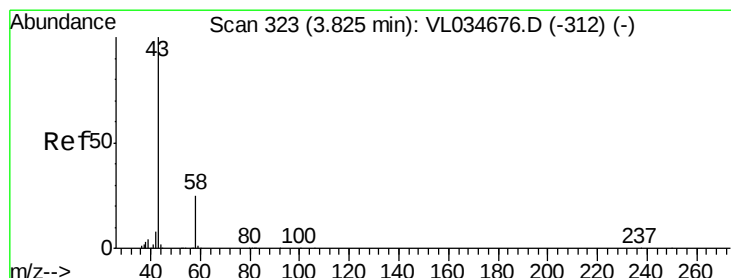
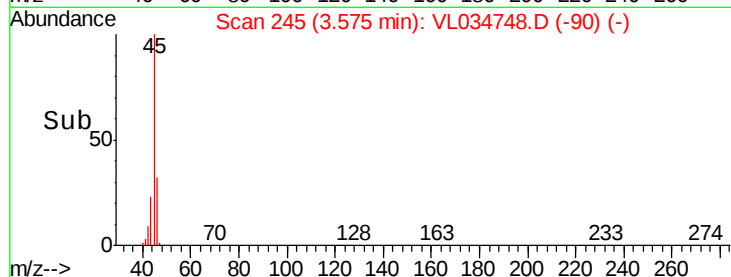
50000

0

3.57

3.55 3.57 3.59 3.61 3.63 3.65

Time-->



#15

Acetone

Concen: 2.063 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034748.D

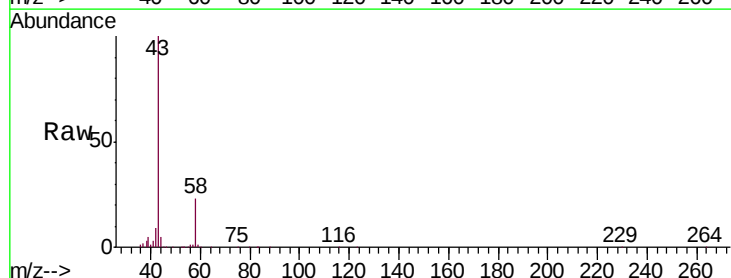
Acq: 28 Feb 2020 22:27

Tgt Ion: 43 Resp: 241149

Ion Ratio Lower Upper

43 100

58 25.8 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

200000

150000

100000

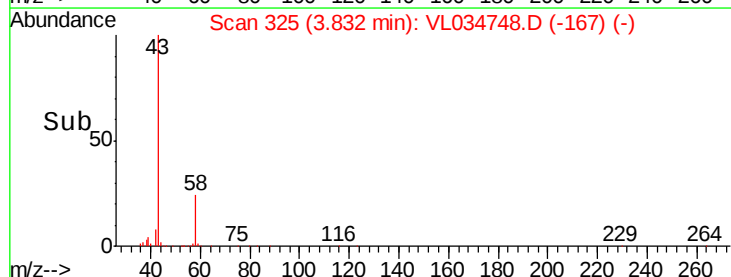
50000

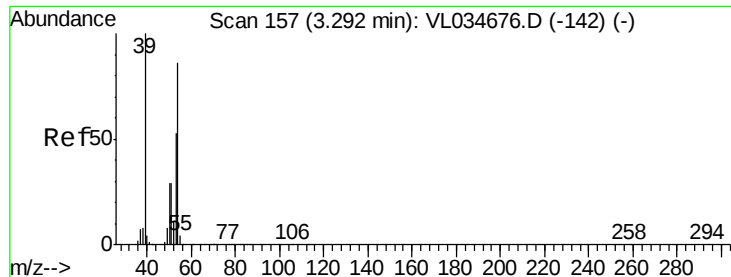
0

3.83

3.80 3.83 3.86 3.89

Time-->

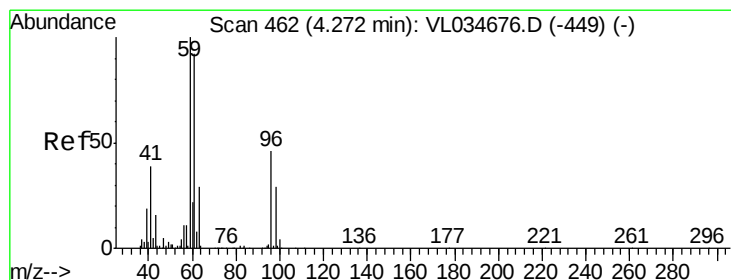
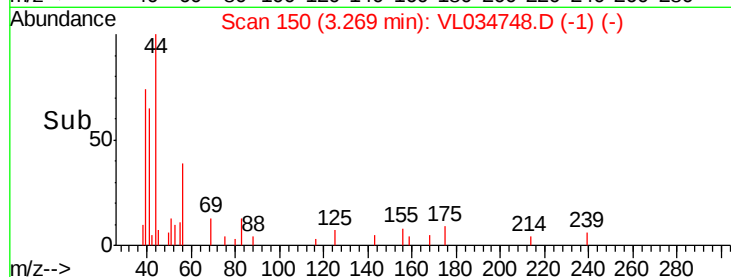
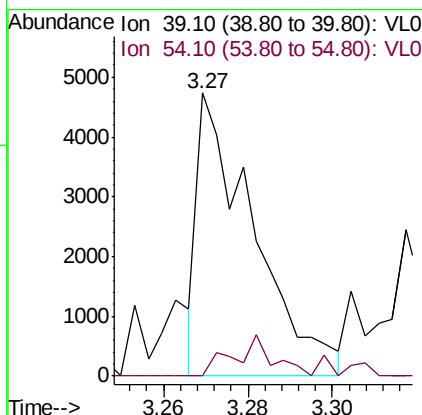
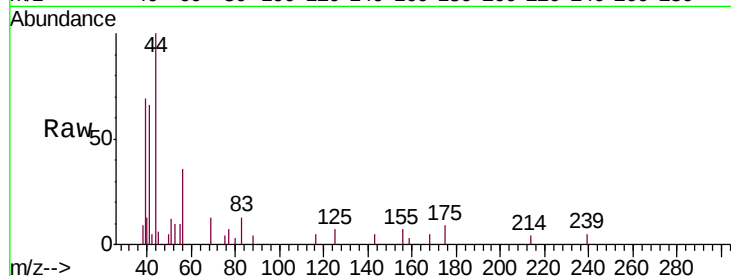




#16
 1,3-Butadiene
 Concen: 0.081 ppbv
 RT: 3.27 min Scan# 150
 Delta R.T. -0.02 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

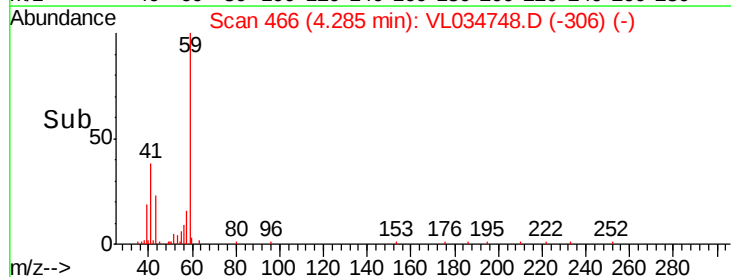
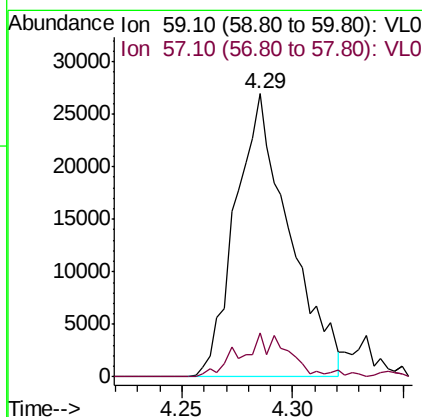
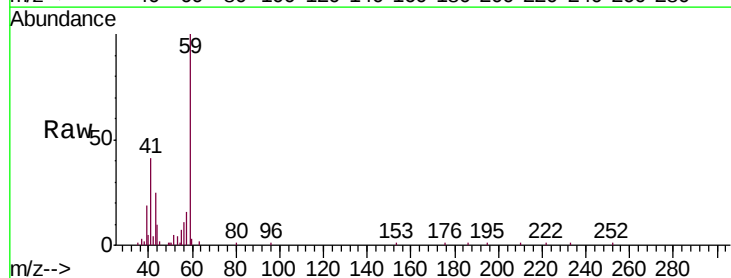
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7-TEACHER-WORKROOMDL

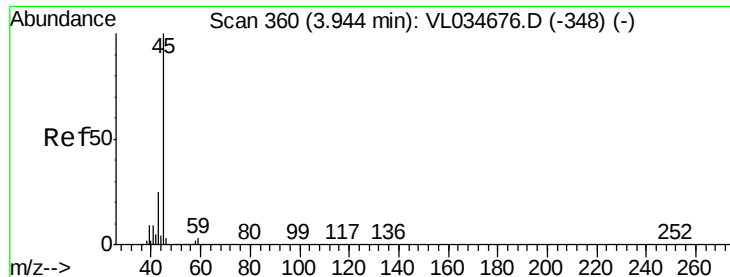
Tgt Ion: 39 Resp: 4361
 Ion Ratio Lower Upper
 39 100
 54 13.5 67.0 100.6#



#17
 tert-Butyl alcohol
 Concen: 0.511 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.01 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

Tgt Ion: 59 Resp: 45738
 Ion Ratio Lower Upper
 59 100
 57 14.8 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 6.463 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034748.D

Acq: 28 Feb 2020 22:27

Instrument :

MSVOA_L

ClientSampleId :

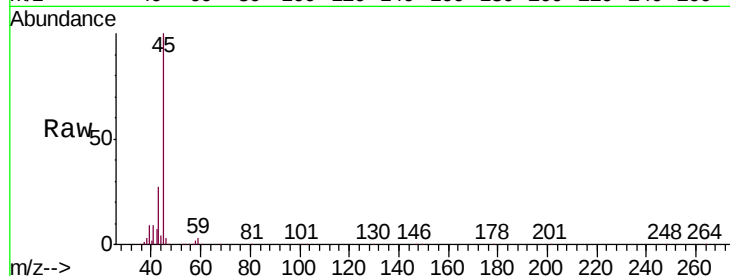
SG-7-TEACHER-WORKROOMDL

Tgt Ion: 45 Resp: 449983

Ion Ratio Lower Upper

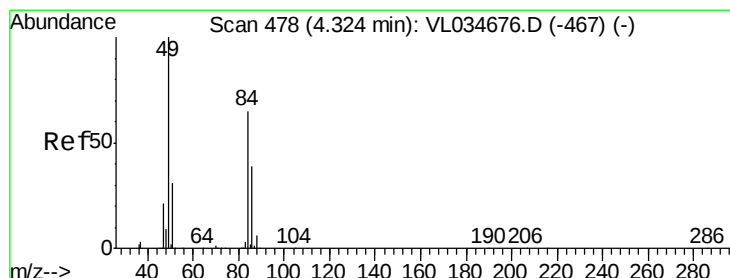
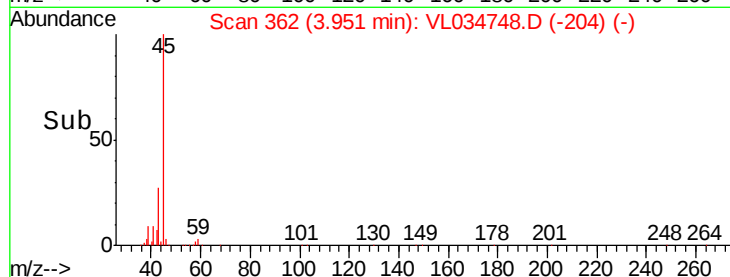
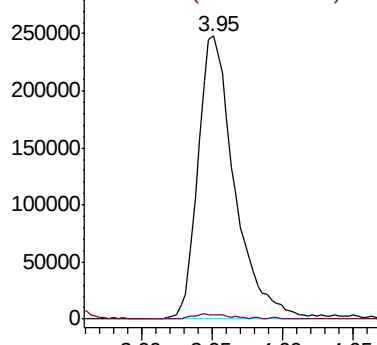
45 100

58 2.3 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.145 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034748.D

Acq: 28 Feb 2020 22:27

Tgt Ion: 84 Resp: 6292

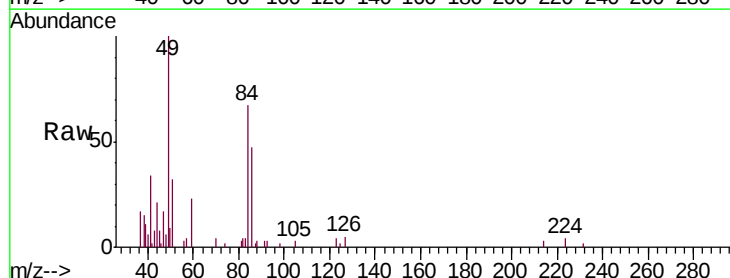
Ion Ratio Lower Upper

84 100

49 137.3 122.8 184.2

51 41.4 38.6 58.0

86 70.4 47.7 71.5

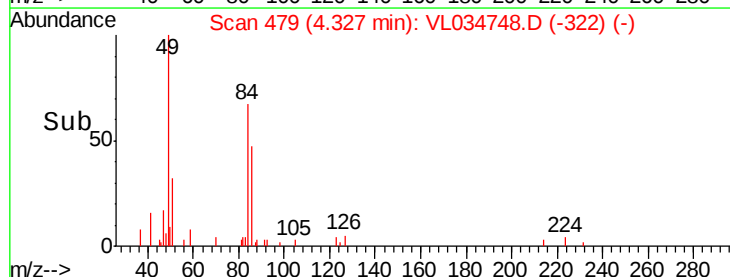
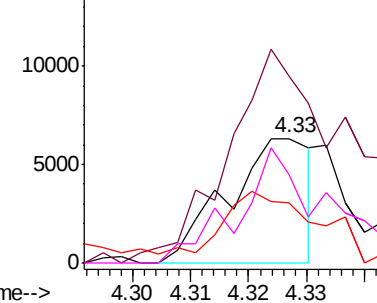


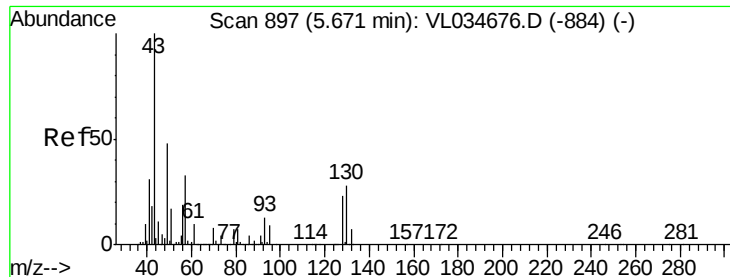
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

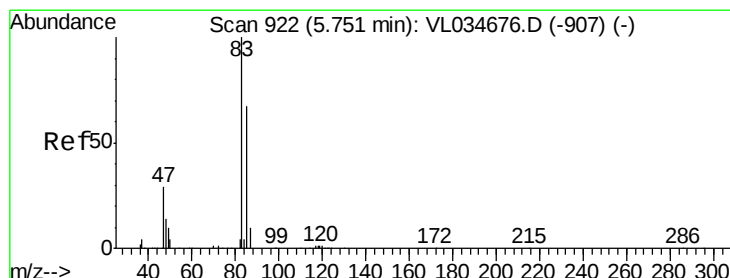
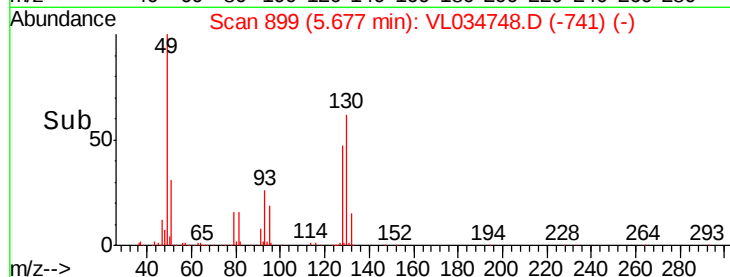
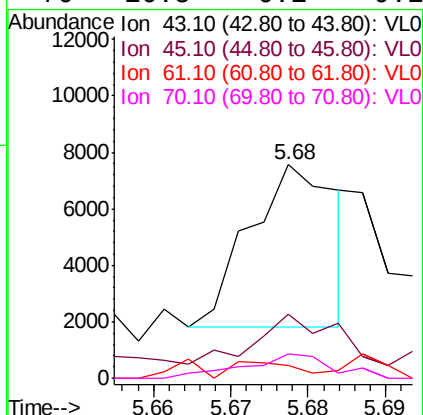
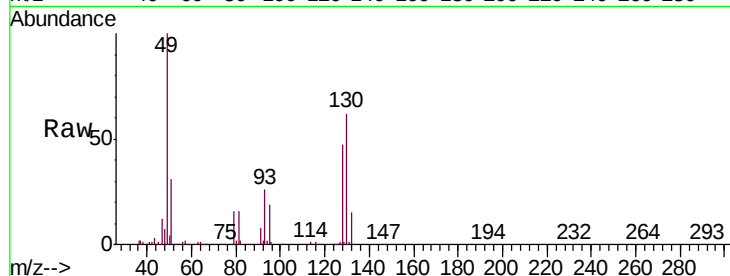




#25
Ethyl Acetate
Concen: 0.022 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034748.D
Acq: 28 Feb 2020 22:27

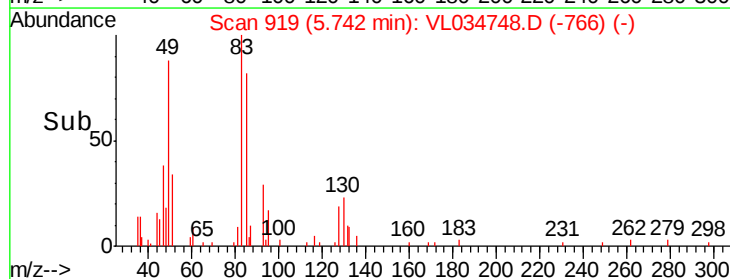
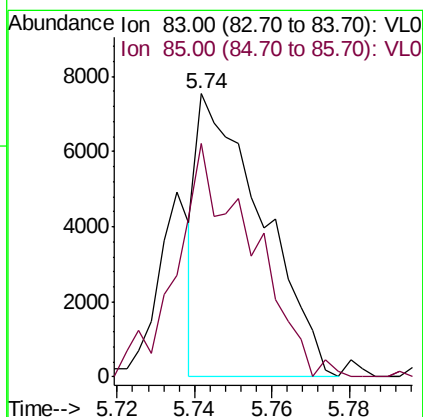
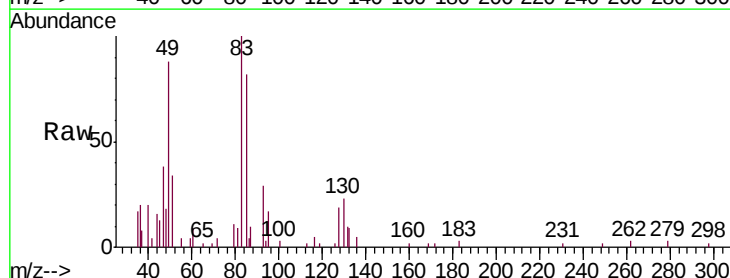
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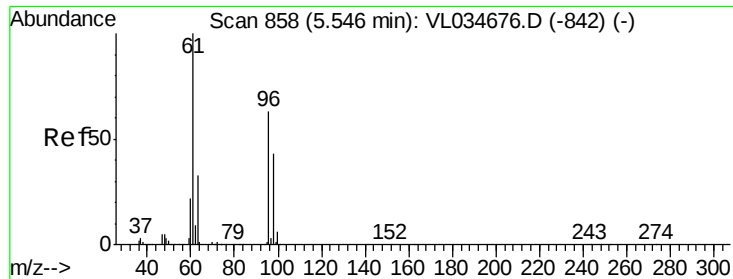
Tgt Ion:	43	Resp:	4476
Ion	Ratio	Lower	Upper
43	100		
45	90.6	8.2	12.4#
61	20.8	7.8	11.6#
70	16.5	6.1	9.1#



#29
Chloroform
Concen: 0.058 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL034748.D
Acq: 28 Feb 2020 22:27

Tgt Ion:	83	Resp:	8835
Ion	Ratio	Lower	Upper
83	100		
85	80.3	53.9	80.9

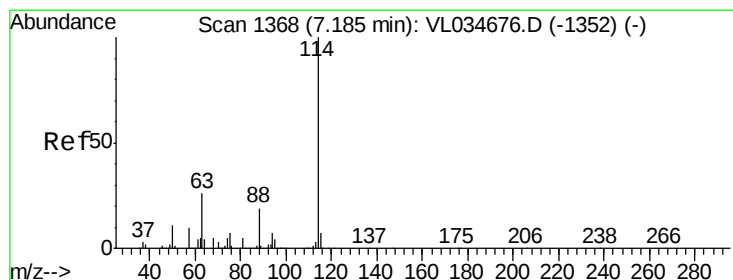
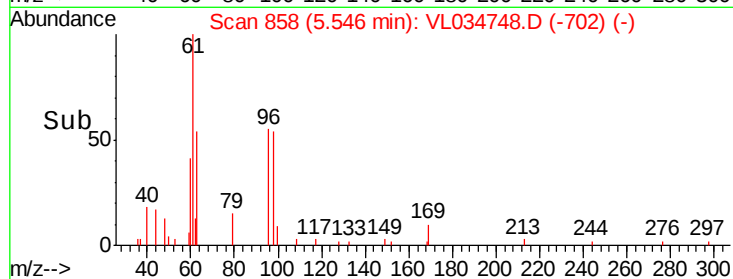
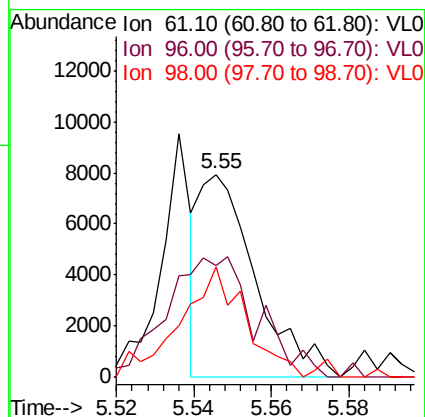
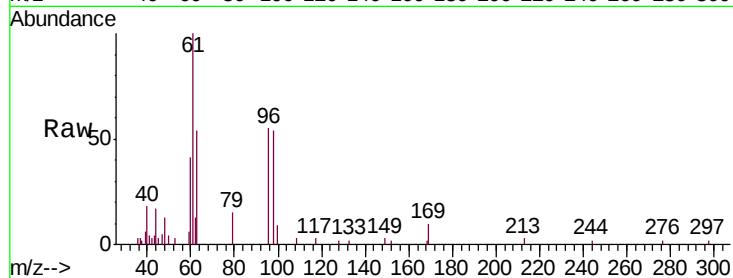




#31
 cis-1,2-Dichloroethene
 Concen: 0.085 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

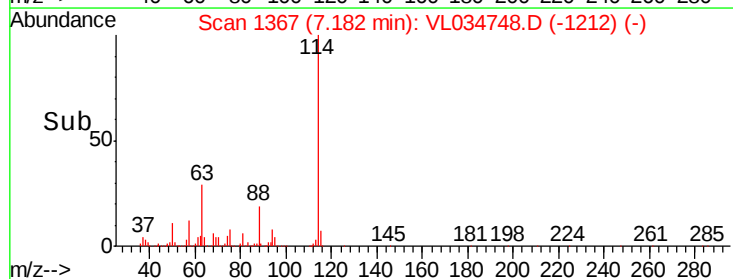
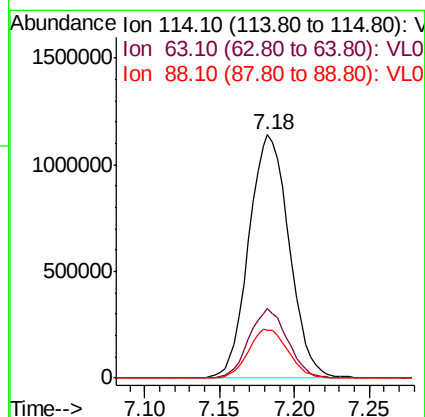
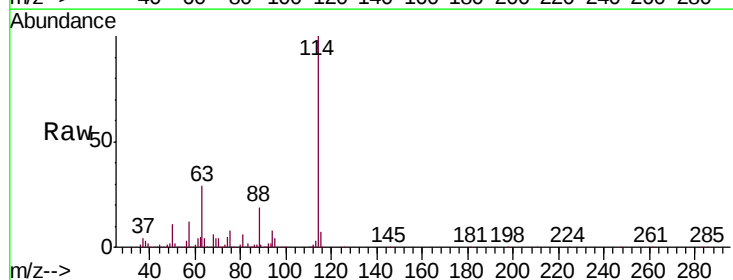
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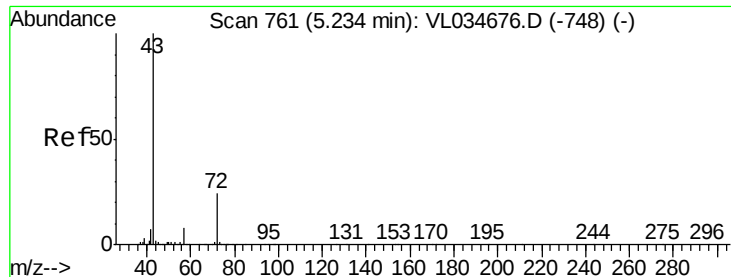
Tgt Ion: 61 Resp: 7973
 Ion Ratio Lower Upper
 61 100
 96 55.3 50.2 75.2
 98 54.5 34.3 51.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

Tgt Ion: 114 Resp: 2136242
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.9 34.3
 88 19.7 15.8 23.6

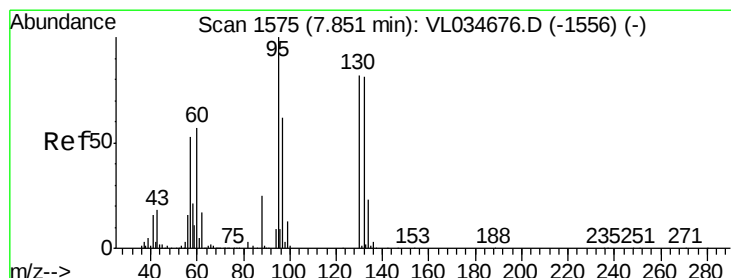
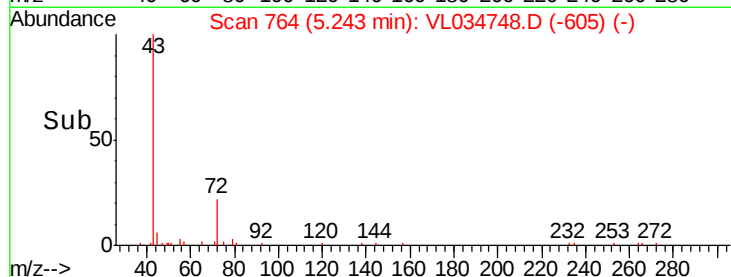
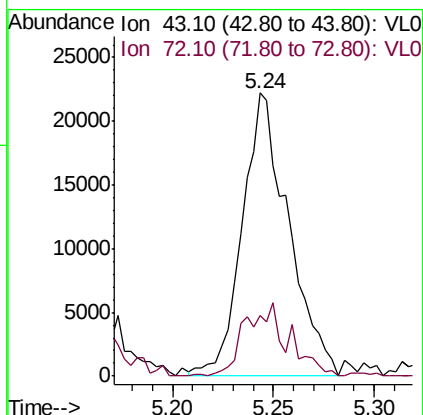
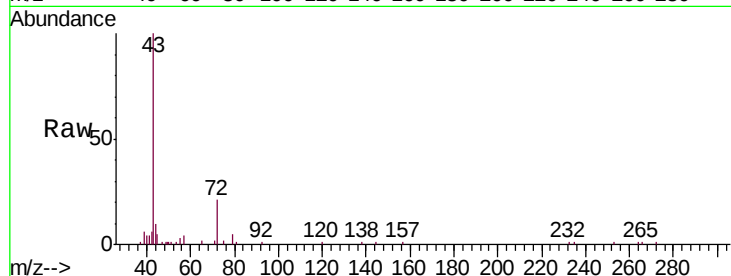




#34
2-Butanone
Concen: 0.265 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.01 min
Lab File: VL034748.D
Acq: 28 Feb 2020 22:27

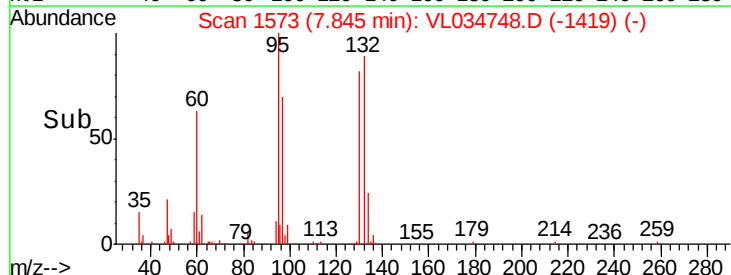
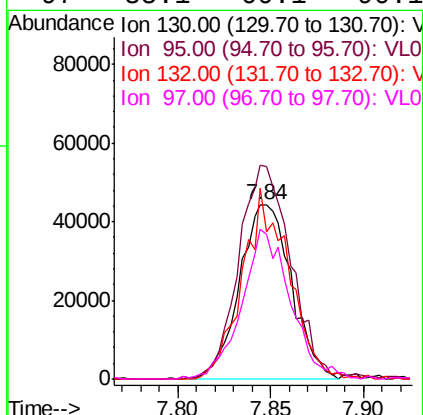
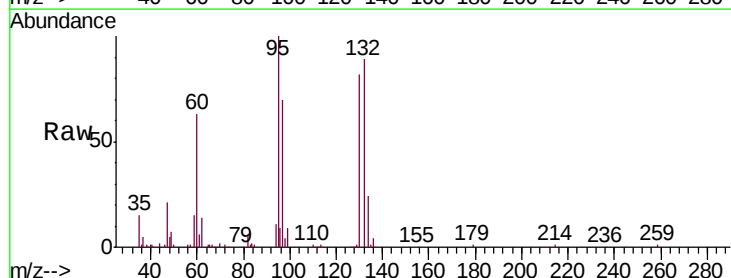
Instrument :
MSVOA_L
ClientSampleId :
SG-7-TEACHER-WORKROOMDL

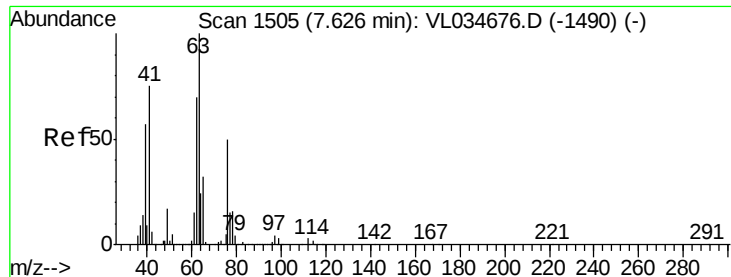
Tgt Ion: 43 Resp: 35614
Ion Ratio Lower Upper
43 100
72 25.1 18.2 27.2



#38
Trichloroethene
Concen: 1.210 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL034748.D
Acq: 28 Feb 2020 22:27

Tgt Ion: 130 Resp: 86050
Ion Ratio Lower Upper
130 100
95 122.0 97.1 145.7
132 109.3 78.3 117.5
97 85.1 60.1 90.1





#39

1,2-Dichloropropane

Concen: 7.977 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.44 min

Lab File: VL034748.D

Acq: 28 Feb 2020 22:27

Instrument :

MSVOA_L

ClientSampleId :

SG-7-TEACHER-WORKROOMDL

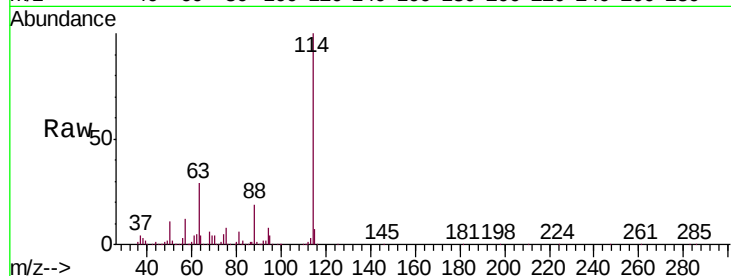
Tgt Ion: 63 Resp: 585558

Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

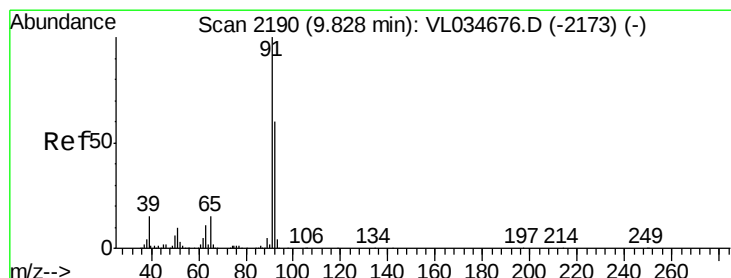
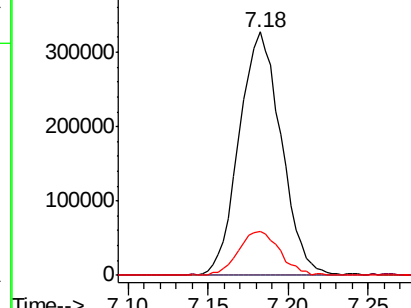
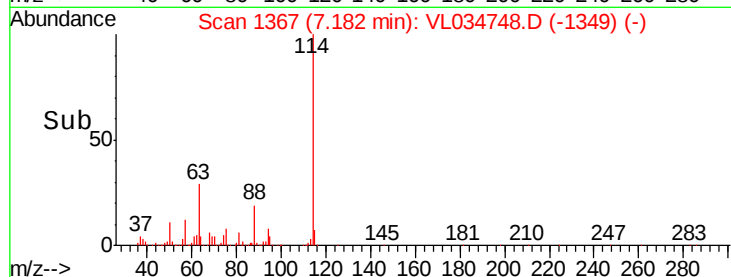
62 17.9 56.3 84.5#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.151 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034748.D

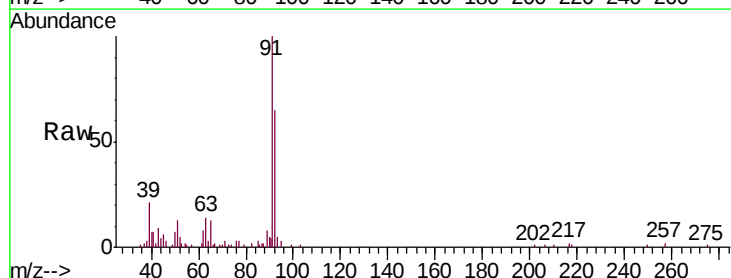
Acq: 28 Feb 2020 22:27

Tgt Ion: 91 Resp: 29629

Ion Ratio Lower Upper

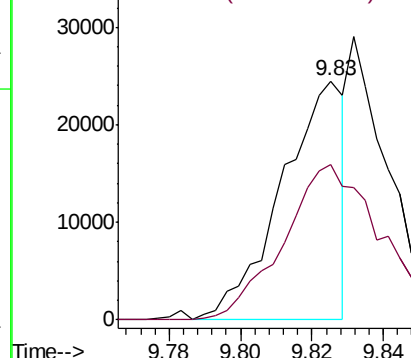
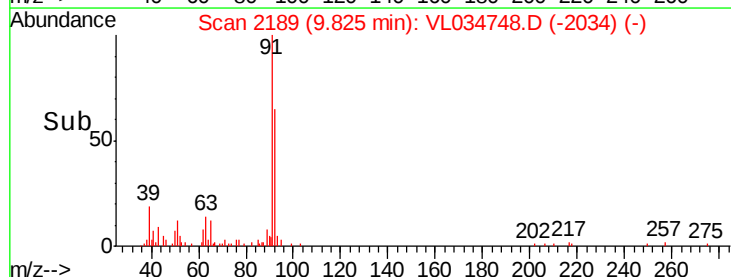
91 100

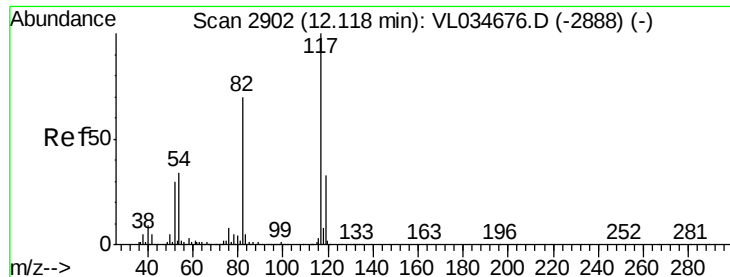
92 103.9 48.5 72.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

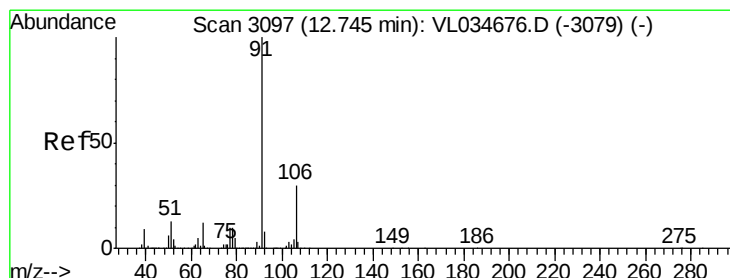
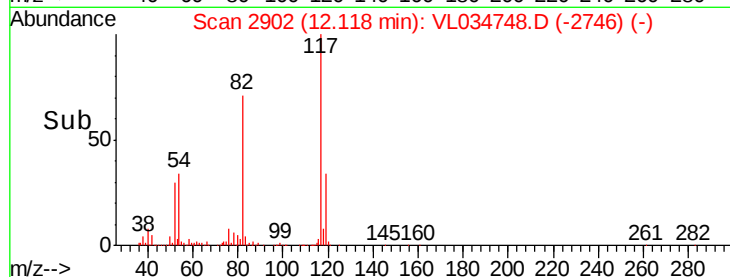
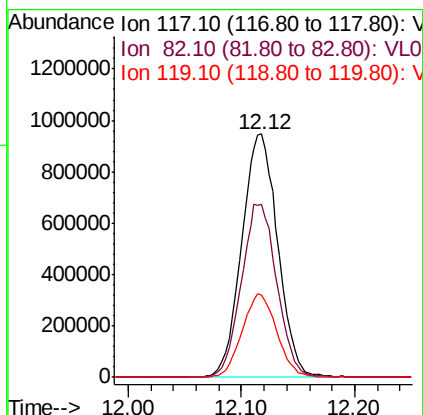
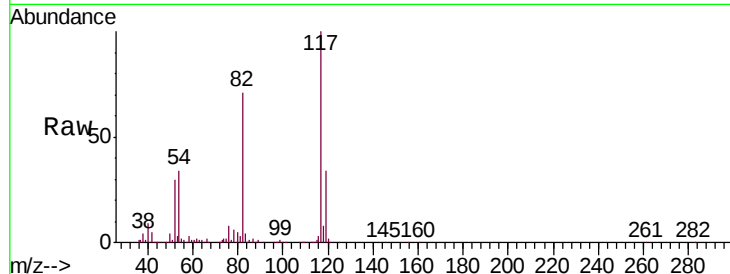




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL034748.D
Acq: 28 Feb 2020 22:27

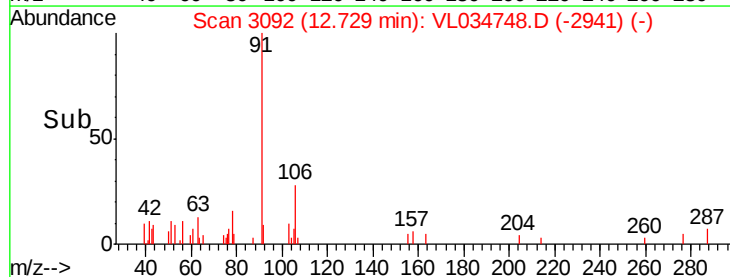
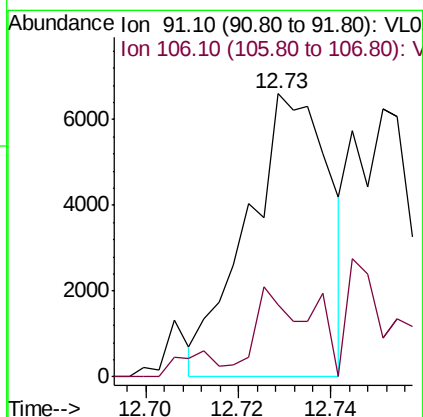
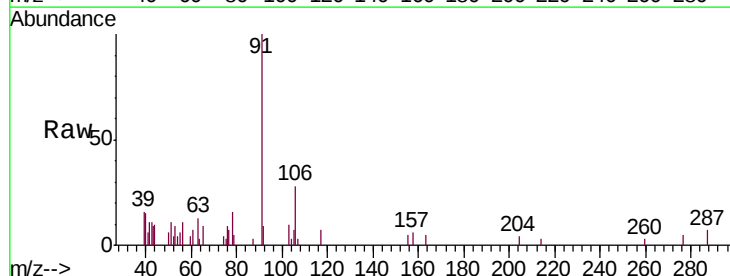
Instrument :
MSVOA_L
ClientSampleId :
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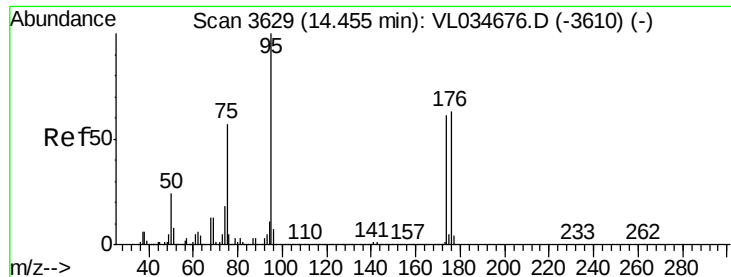
Tgt Ion: 117 Resp: 2090281
Ion Ratio Lower Upper
117 100
82 70.7 54.1 81.1
119 33.2 27.6 41.4



#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.02 min
Lab File: VL034748.D
Acq: 28 Feb 2020 22:27

Tgt Ion: 91 Resp: 8095
Ion Ratio Lower Upper
91 100
106 28.4 24.0 36.0

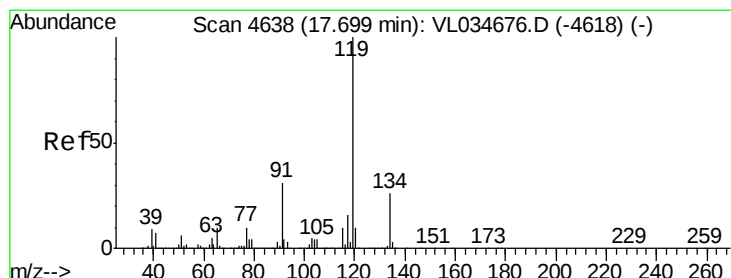
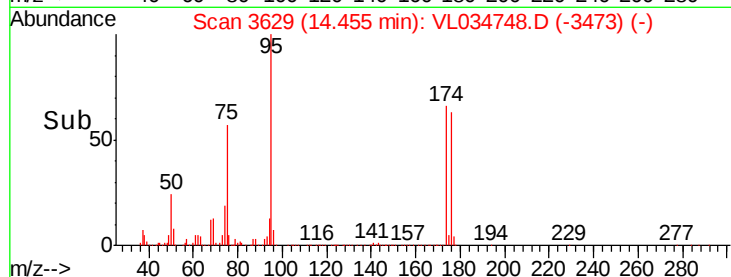
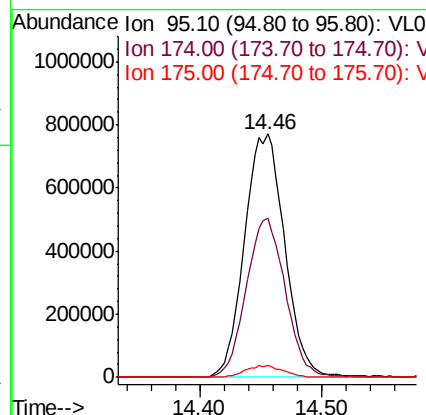
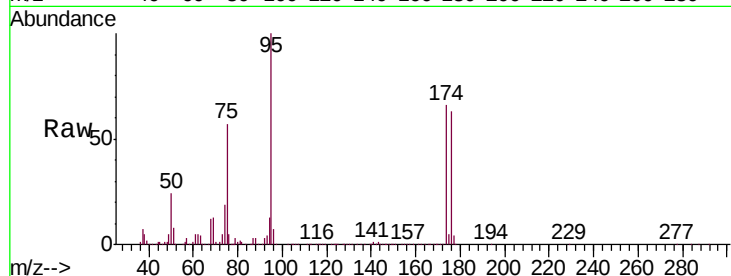




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.218 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

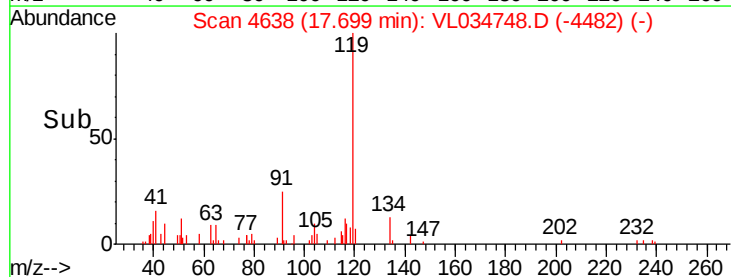
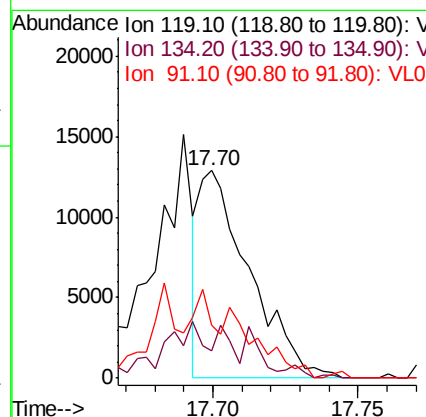
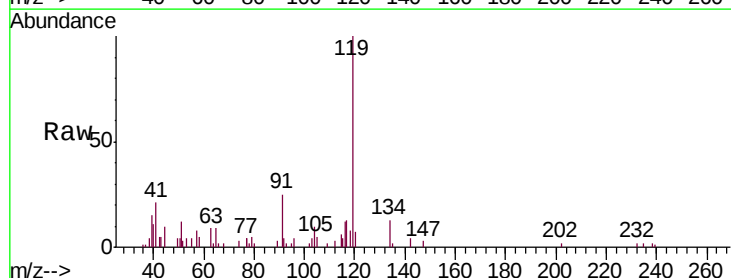
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7-TEACHER-WORKROOMDL

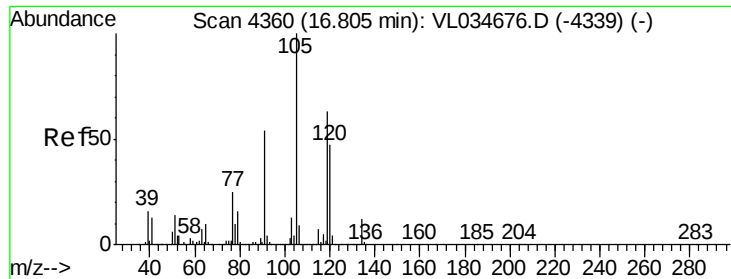
Tgt Ion: 95 Resp: 1751245
 Ion Ratio Lower Upper
 95 100
 174 63.8 50.7 76.1
 175 4.7 3.9 5.9



#69
 p-Isopropyltoluene
 Concen: 0.047 ppbv
 RT: 17.70 min Scan# 4638
 Delta R.T. 0.00 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

Tgt Ion: 119 Resp: 15481
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.6 31.0#
 91 0.0 25.3 37.9#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.026 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. -0.00 min
 Lab File: VL034748.D
 Acq: 28 Feb 2020 22:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7-TEACHER-WORKROOMDL

Tgt Ion:	105	Resp:	6840
Ion	Ratio	Lower	Upper
105	100		
120	16.2	37.9	56.9#
91	10.9	43.9	65.9#
77	19.4	20.3	30.5#

