

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033519.D
 Acq On : 30 Mar 2019 2:17
 Operator : SY/AP
 Sample : K2042-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5-TEACHERS-ROOM

Manual Integrations
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MMDadoda
 4/1/2019 4:03:27 AM

Quant Time: Mar 30 03:46:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue 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	5.76	49	866154	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1974555	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2009578	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1554426	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	42517	0.337	ppbv	89
4) Chloromethane	3.17	50	21903	0.415	ppbv #	81
9) Propene	3.05	41	35477m	0.847	ppbv	
10) Heptane	8.25	43	34301	0.306	ppbv	98
11) Trichlorofluoromethane	4.00	101	42002	0.270	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	8045m	0.077	ppbv	
13) Ethanol	3.65	45	2898828	267.506	ppbv	65
15) Acetone	3.90	43	966933	9.284	ppbv	99
19) Isopropyl Alcohol	4.03	45	425558	6.460	ppbv #	97
20) Methylene Chloride	4.41	84	90595	2.049	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	8587m	0.183	ppbv	
26) Hexane	5.78	57	268657	3.127	ppbv #	44
29) Chloroform	5.84	83	167678	1.139	ppbv	94
30) Cyclohexane	7.24	84	10383m	0.153	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	69026	0.808	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	15230m	0.109	ppbv	
34) 2-Butanone	5.33	43	85668	0.722	ppbv	99
35) Carbon Tetrachloride	7.13	117	11639m	0.083	ppbv	
36) Benzene	7.00	78	58521	0.353	ppbv	96
38) Trichloroethene	7.96	130	769851	12.347	ppbv	99
44) 2,2,4-Trimethylpentane	7.99	57	72879	0.252	ppbv #	71
52) Tetrachloroethene	11.37	164	11779m	0.188	ppbv	
53) Toluene	9.95	91	709265	3.684	ppbv	99
58) Ethyl Benzene	12.86	91	41774m	0.156	ppbv	
59) m/p-Xylene	13.12	91	130925m	0.546	ppbv	
60) o-Xylene	13.85	91	40546m	0.175	ppbv	

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

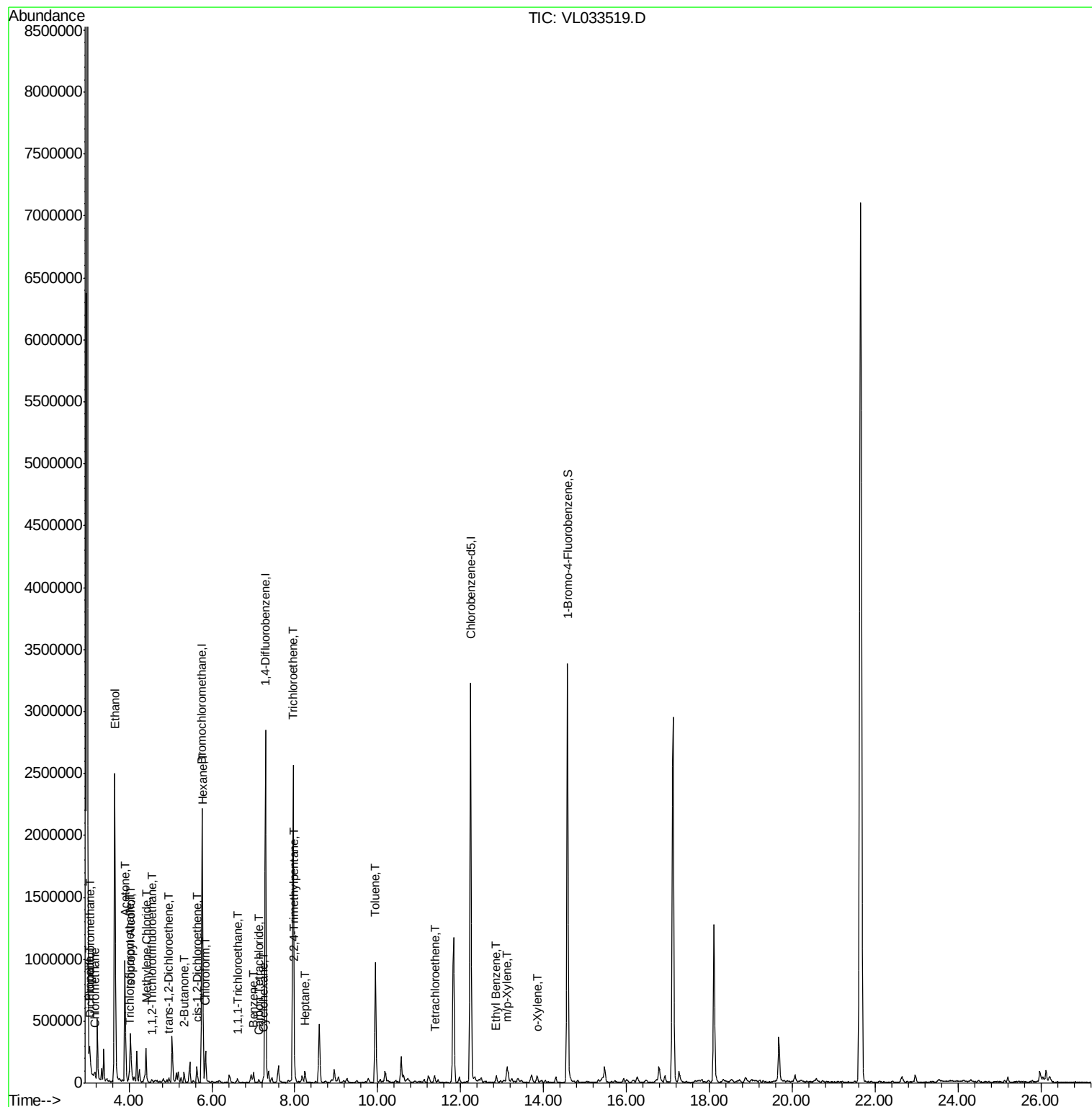
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
Data File : VL033519.D
Acq On : 30 Mar 2019 2:17
Operator : SY/AP
Sample : K2042-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

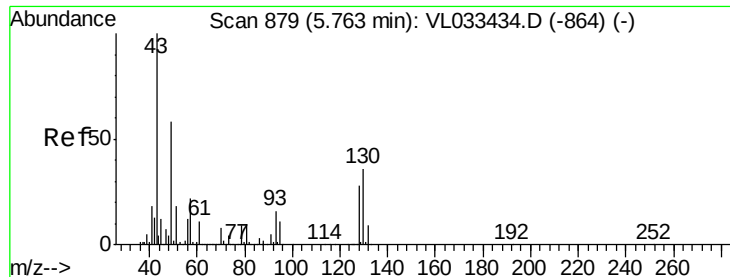
Instrument :
MSVOA_L
ClientSampleId :
SG-5-TEACHERS-ROOM

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4/1/2019 4:03:27 AM

Quant Time: Mar 30 03:46:53 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: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

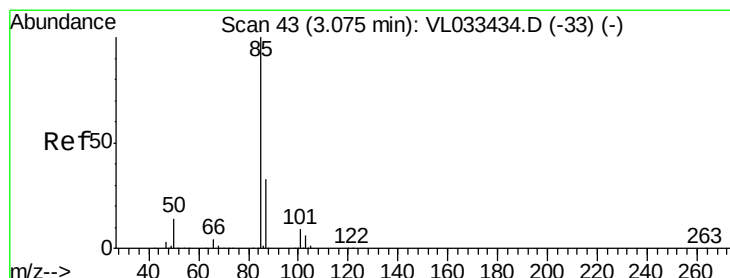
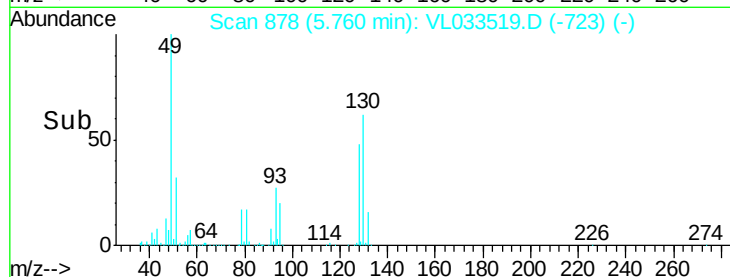
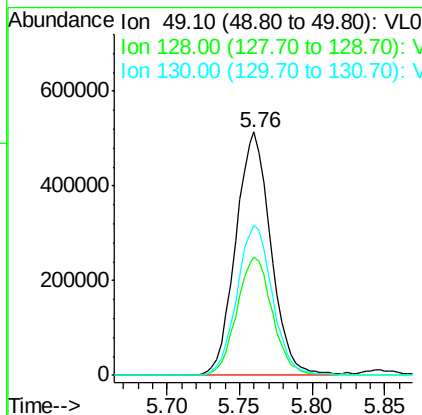
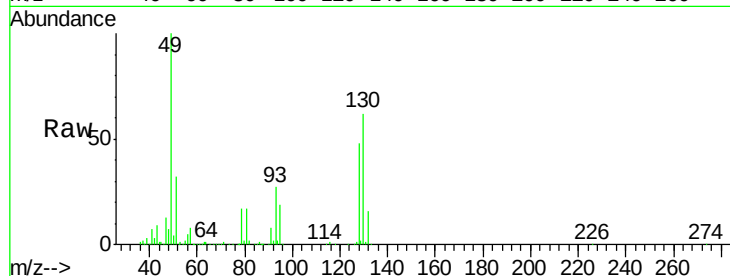
ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion:	49	Resp:	866154
Ion	Ratio	Lower	Upper
49	100		
128	49.4	24.0	72.0
130	62.5	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.337 ppbv

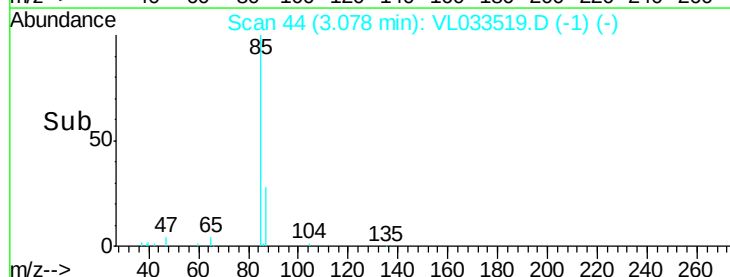
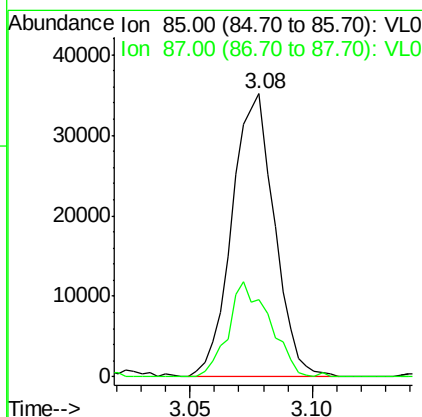
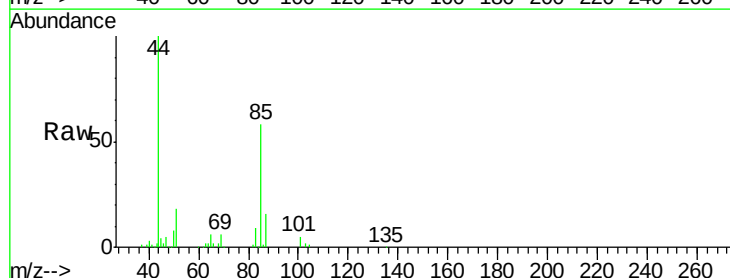
RT: 3.08 min Scan# 44

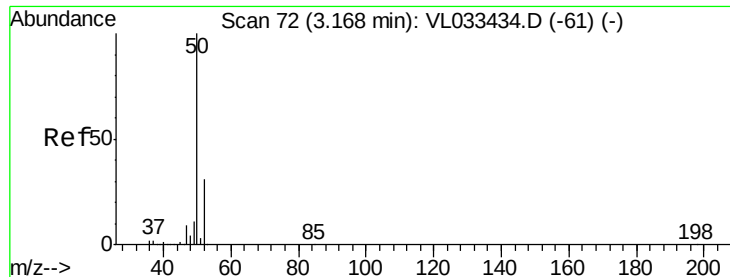
Delta R.T. 0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Tgt Ion:	85	Resp:	42517
Ion	Ratio	Lower	Upper
85	100		
87	27.1	26.7	40.1





#4

Chloromethane

Concen: 0.415 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion: 50 Resp: 21903

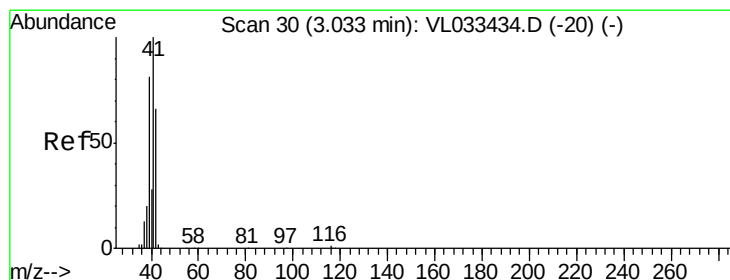
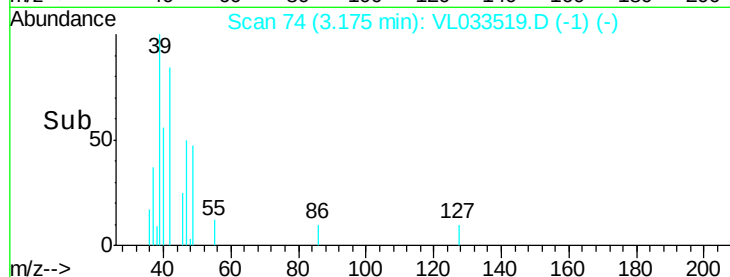
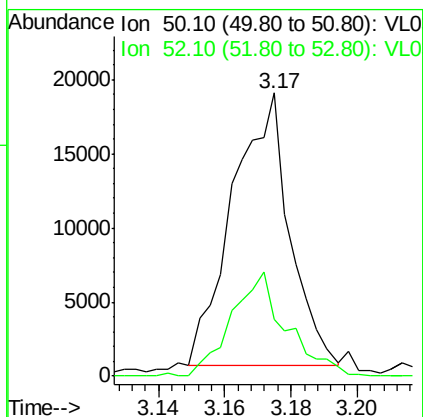
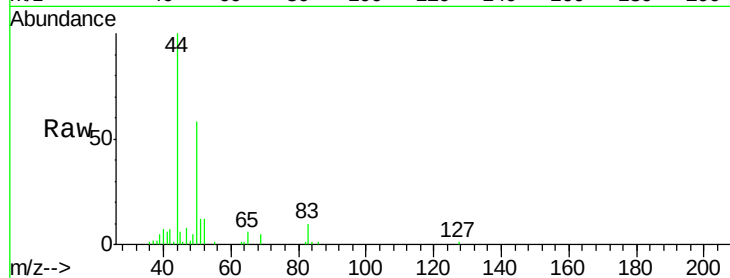
Ion Ratio Lower Upper

50 100

52 21.0 25.0 37.6#

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#9

Propene

Concen: 0.847 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033519.D

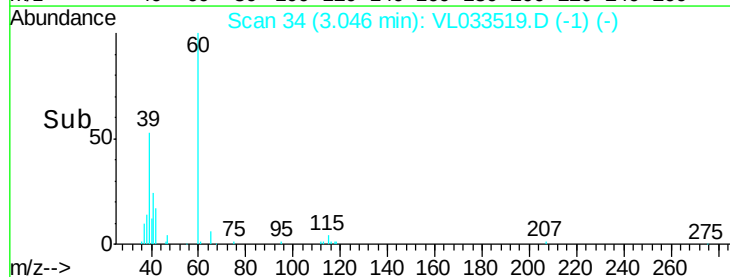
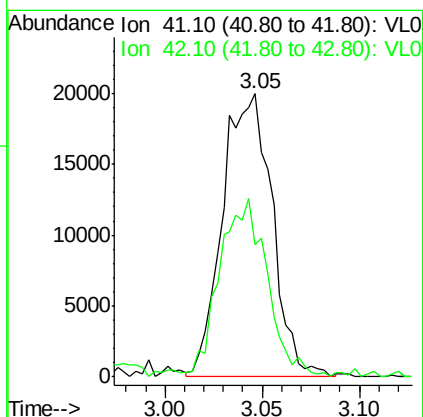
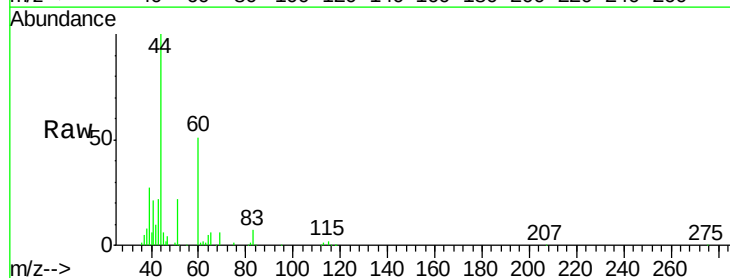
Acq: 30 Mar 2019 2:17

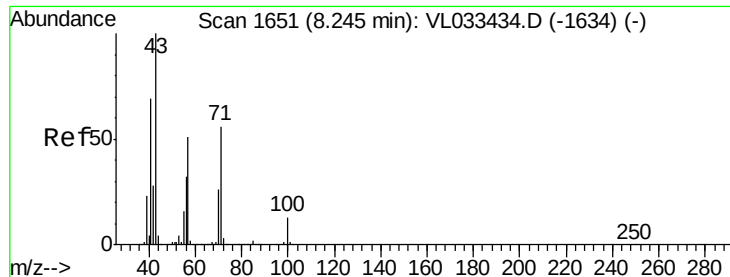
Tgt Ion: 41 Resp: 35477

Ion Ratio Lower Upper

41 100

42 0.0 53.9 80.9#





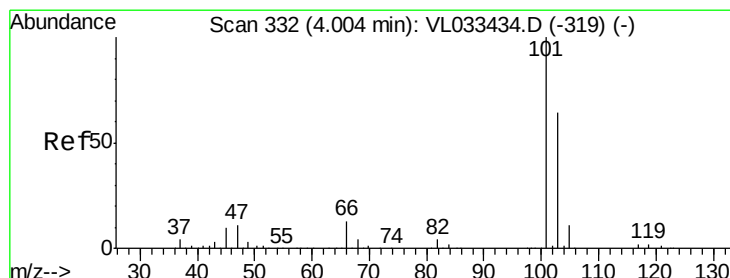
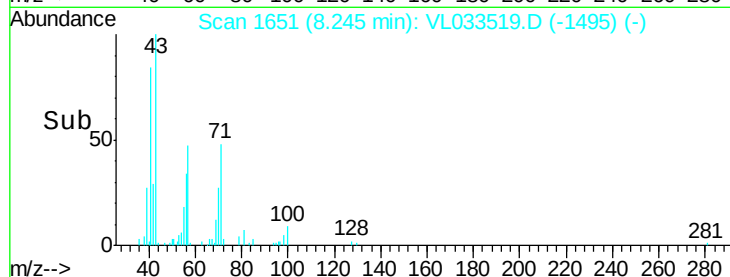
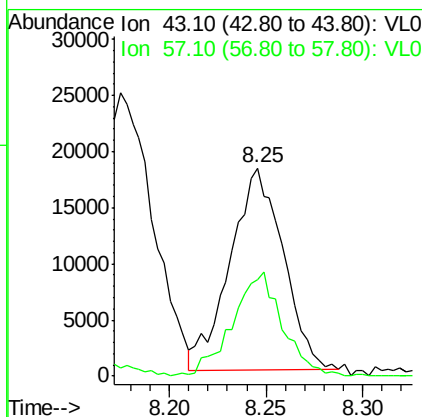
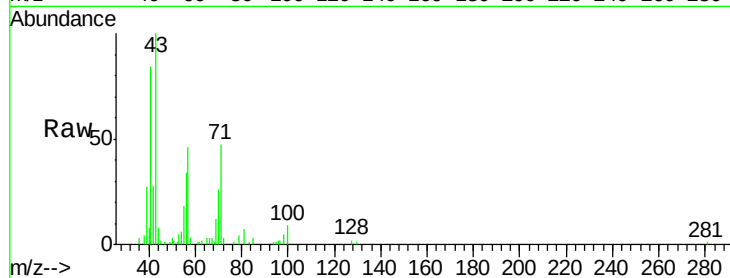
#10
 Heptane
 Concen: 0.306 ppbv
 RT: 8.25 min Scan# 1651
 Delta R.T. 0.00 min
 Lab File: VL033519.D
 Acq: 30 Mar 2019 2:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5-TEACHERS-ROOM

Tot Ion: 43 Resp: 34301
 Ion Ratio Lower Upper
 43 100
 57 49.1 40.6 60.8

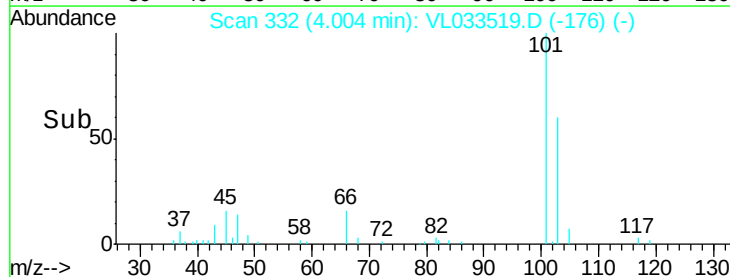
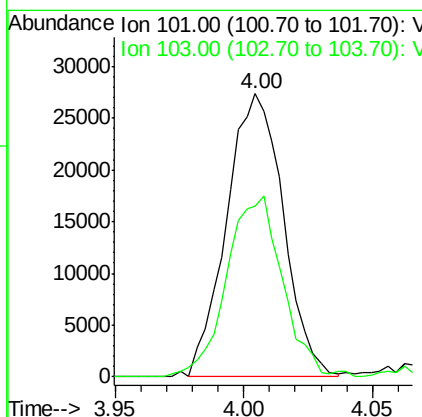
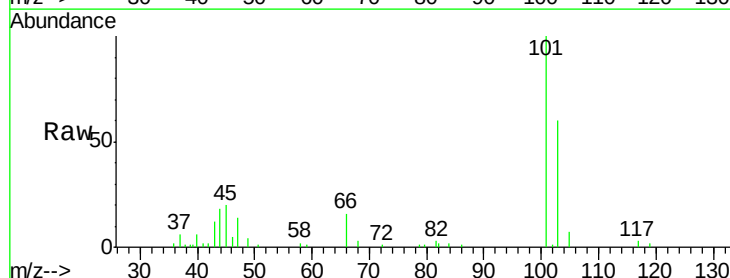
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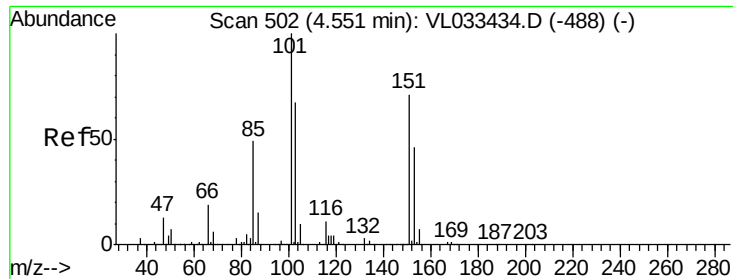
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#11
 Trichlorofluoromethane
 Concen: 0.270 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033519.D
 Acq: 30 Mar 2019 2:17

Tgt Ion: 101 Resp: 42002
 Ion Ratio Lower Upper
 101 100
 103 58.4 51.3 76.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.077 ppbv m

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion:101 Resp: 8045

Ion Ratio Lower Upper

101 100

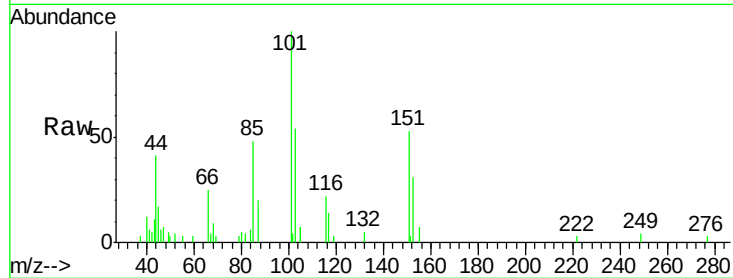
151 0.0 57.7 86.5#

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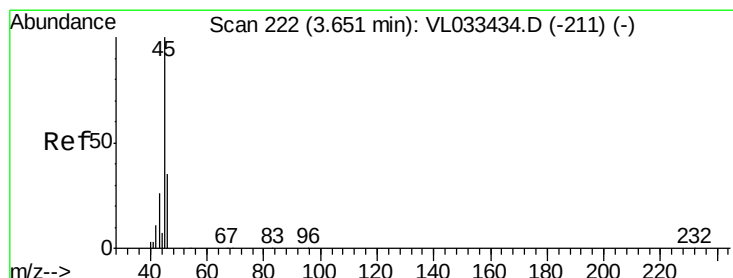
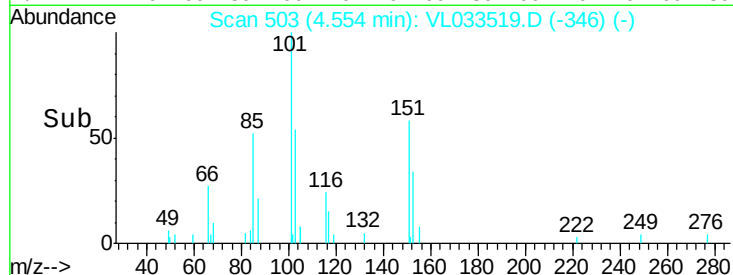
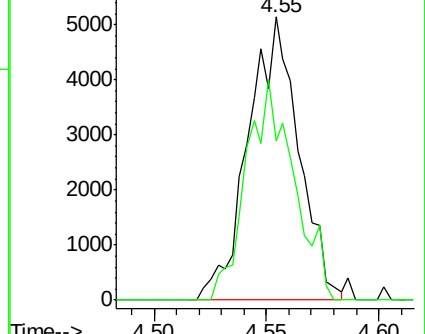
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 267.506 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033519.D

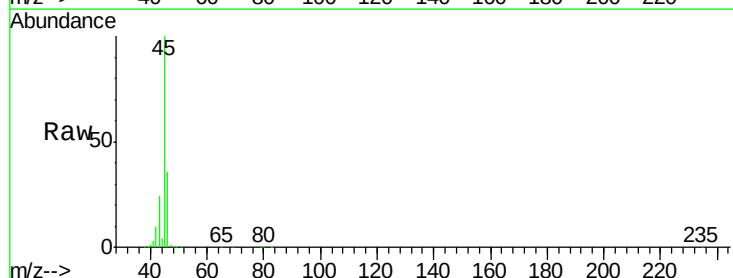
Acq: 30 Mar 2019 2:17

Tgt Ion: 45 Resp: 2898828

Ion Ratio Lower Upper

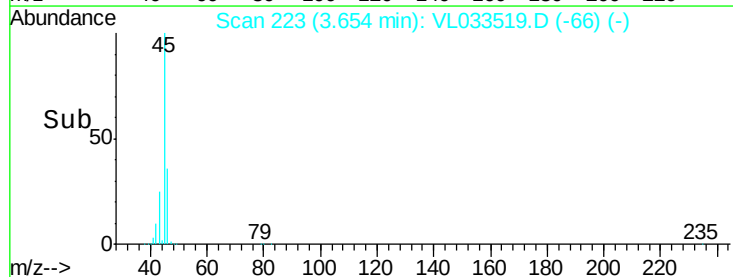
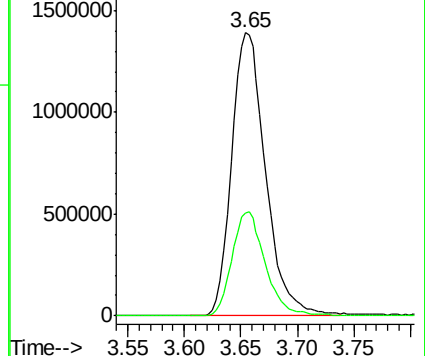
45 100

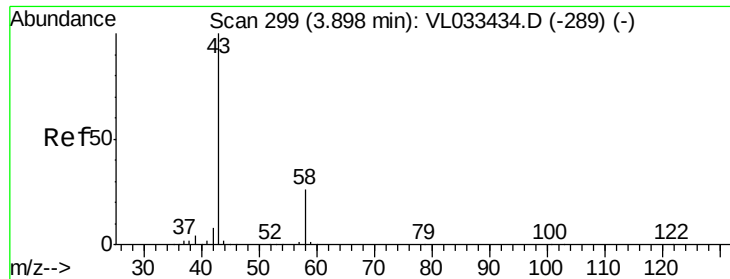
46 36.2 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 9.284 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion: 43 Resp: 966933

Ion Ratio Lower Upper

43 100

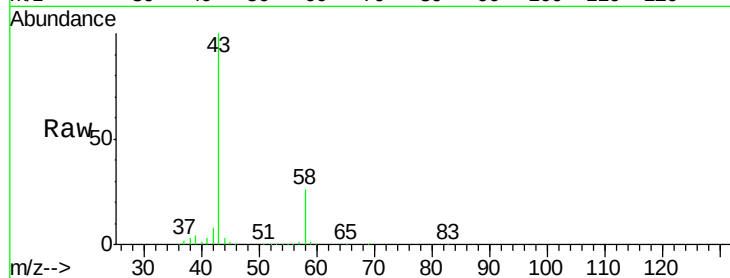
58 26.2 20.5 30.7

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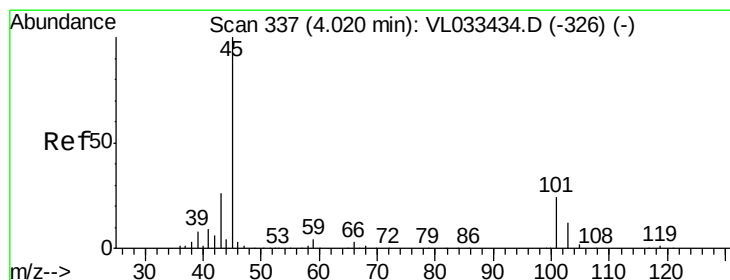
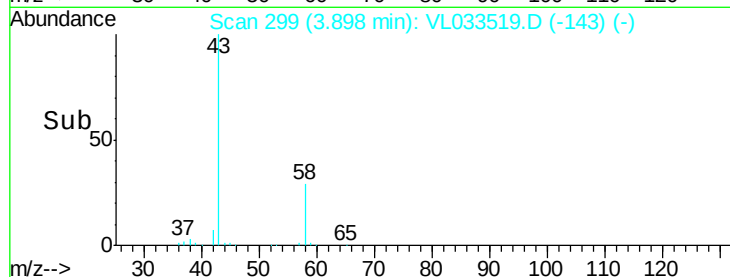
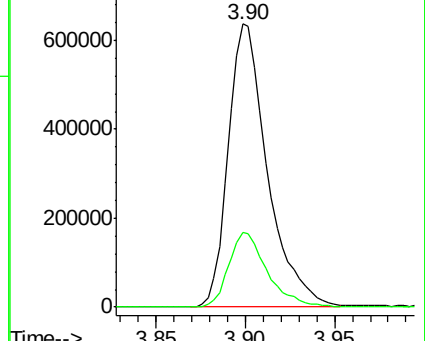
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 6.460 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033519.D

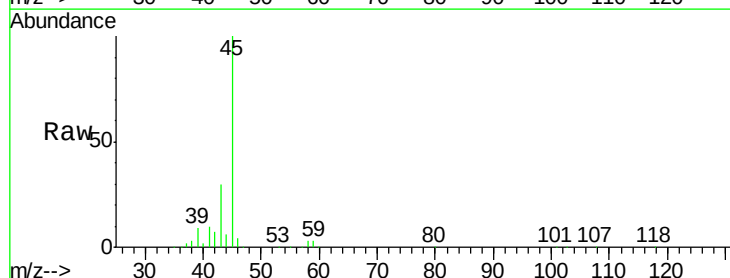
Acq: 30 Mar 2019 2:17

Tgt Ion: 45 Resp: 425558

Ion Ratio Lower Upper

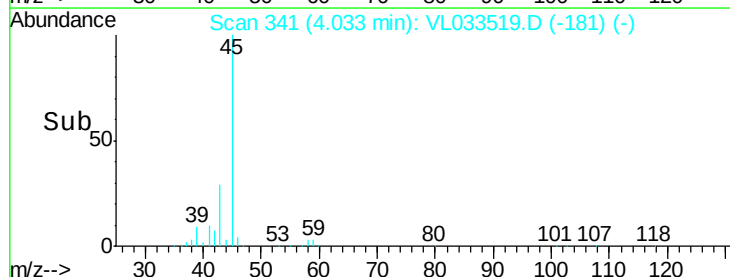
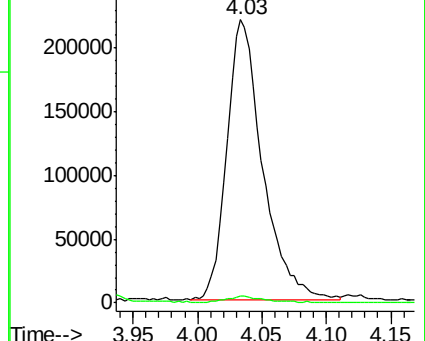
45 100

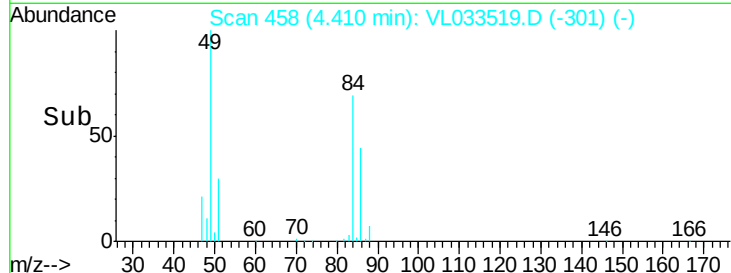
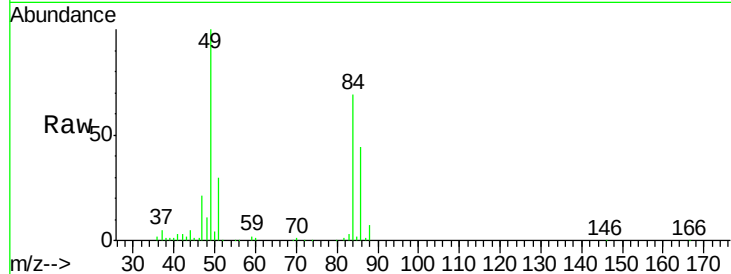
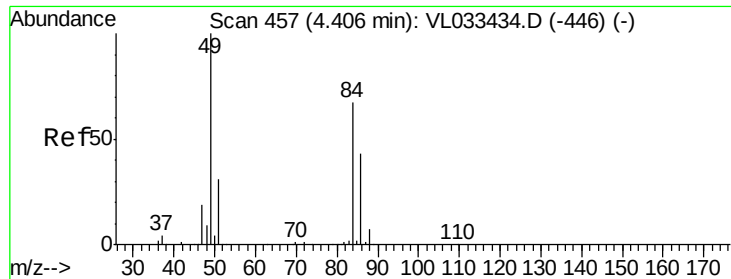
58 2.9 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





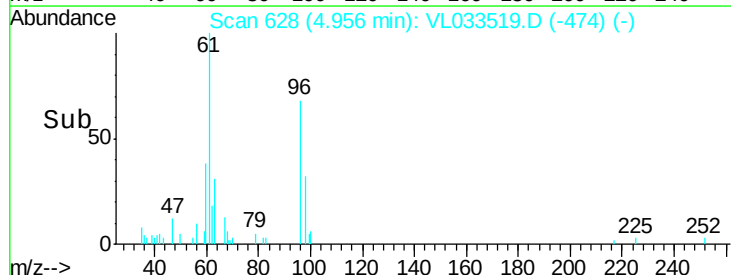
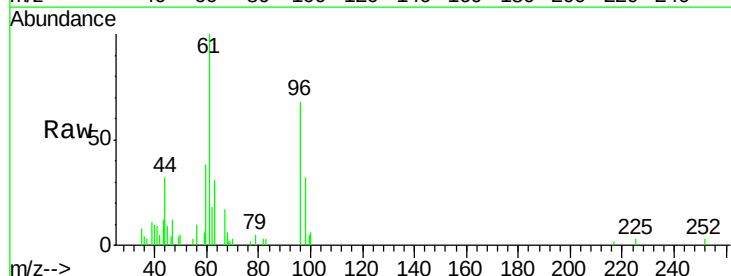
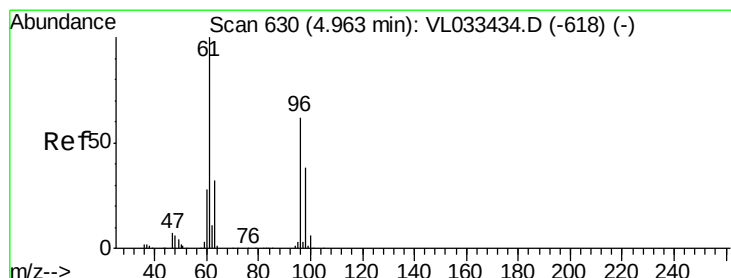
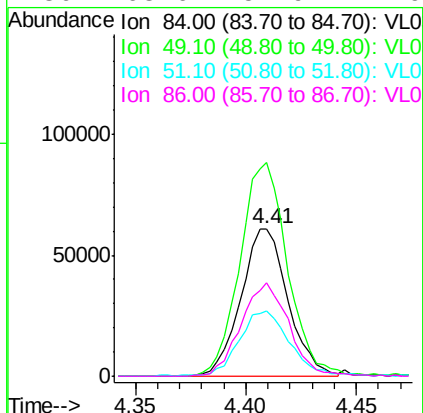
#20
Methylene Chloride
Concen: 2.049 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Tot Ion:	84	Resp:	90595
Ion	Ratio	Lower	Upper
84	100		
49	144.4	120.0	180.0
51	42.7	36.7	55.1
86	63.6	51.9	77.9

Instrument :
MSVOA_L
ClientSampleId :
SG-5-TEACHERS-ROOM

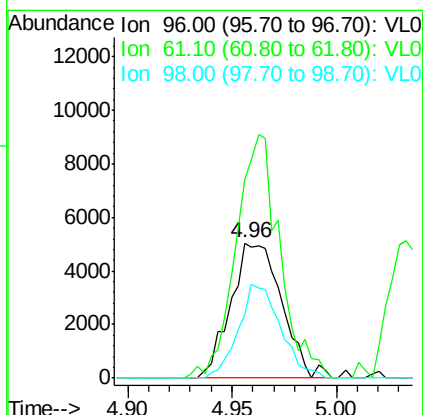
Manual Integrations
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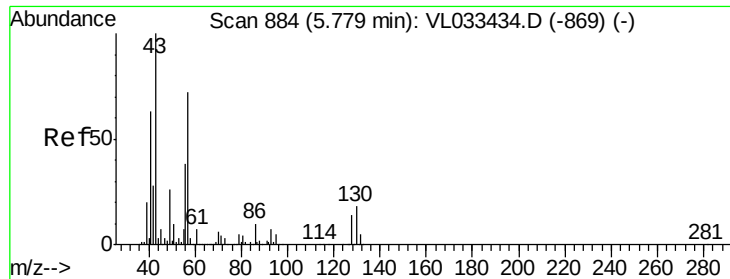
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#22
trans-1,2-Dichloroethene
Concen: 0.183 ppbv m
RT: 4.96 min Scan# 628
Delta R.T. -0.01 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Tgt Ion:	96	Resp:	8587
Ion	Ratio	Lower	Upper
96	100		
61	147.5	128.9	193.3
98	46.9	49.5	74.3#





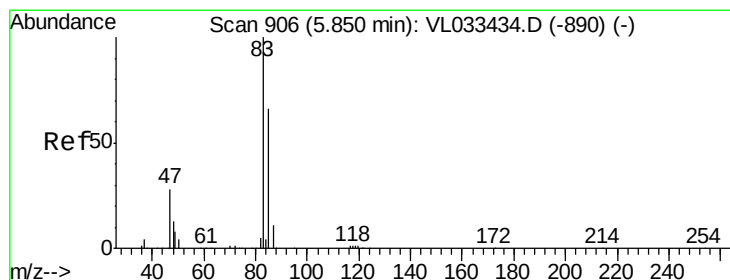
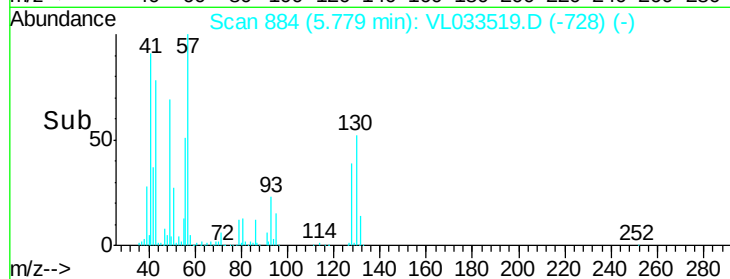
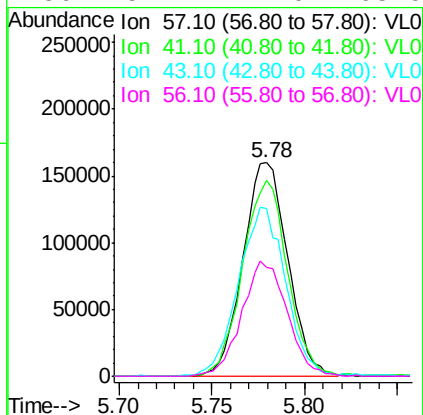
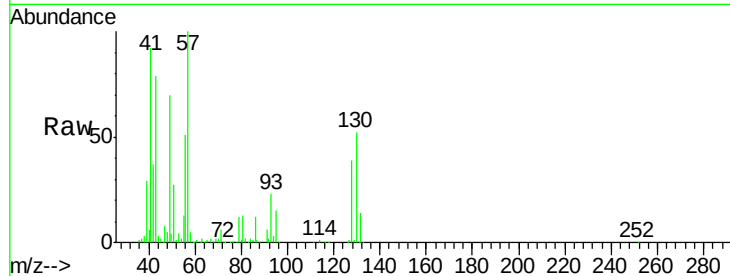
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Hexane
Concen: 3.127 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
SG-5-TEACHERS-ROOM

Tot Ion	Ratio	Lower	Upper
57	100		
41	92.2	70.7	106.1
43	83.5	182.6	274.0#
56	54.4	42.0	63.0

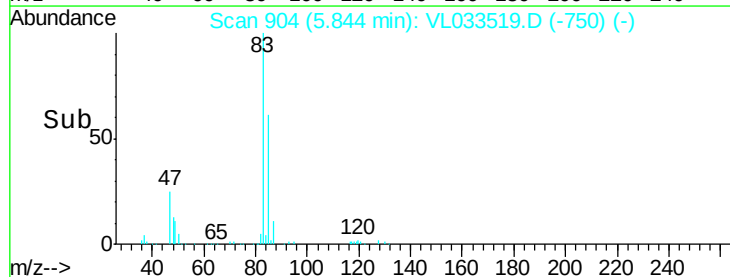
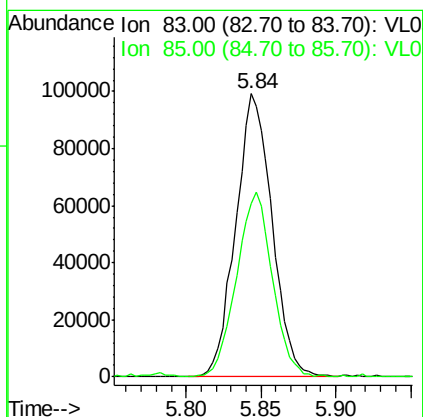
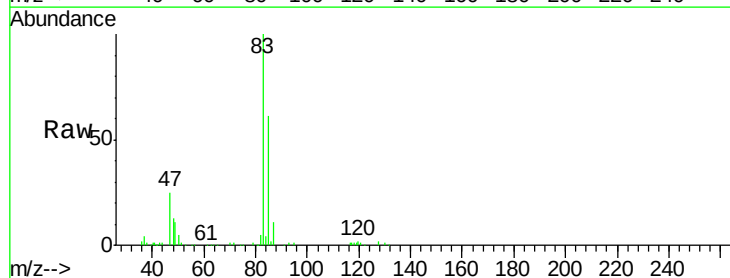
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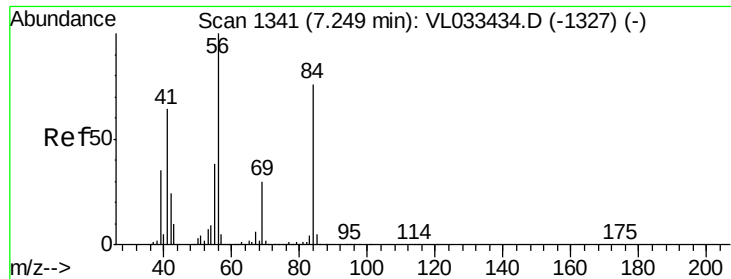
MMDadoda
4/1/2019 4:03:27 AM



#29
Chloroform
Concen: 1.139 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.8	52.6	79.0





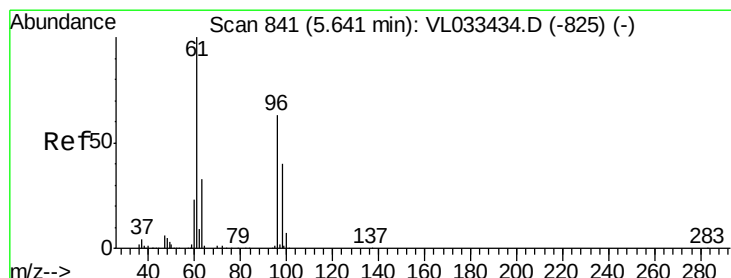
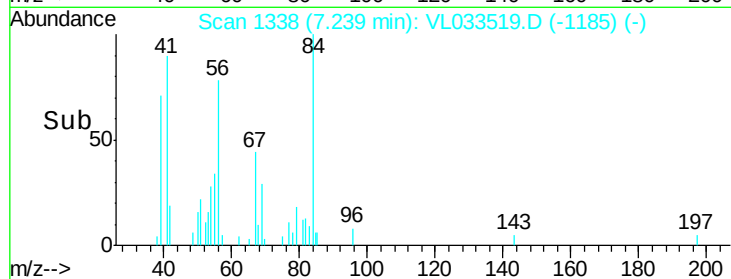
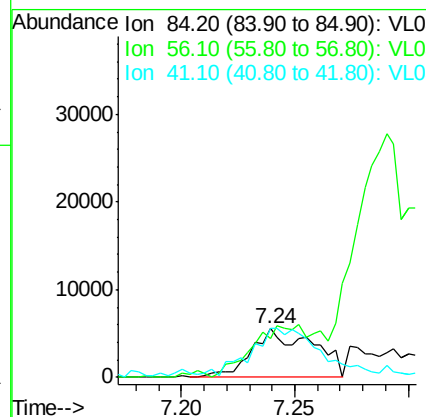
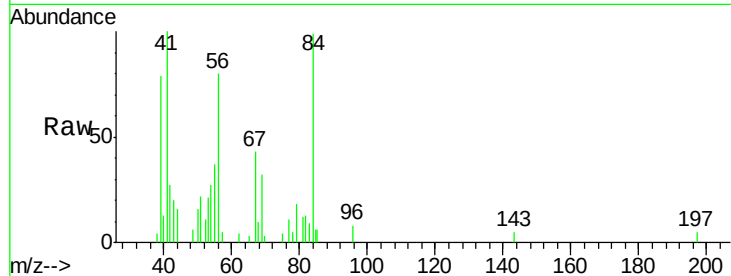
#30
Cvclohexane
Concen: 0.153 ppbv m
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
SG-5-TEACHERS-ROOM

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.7	164.5#
41	106.2	68.2	102.2#

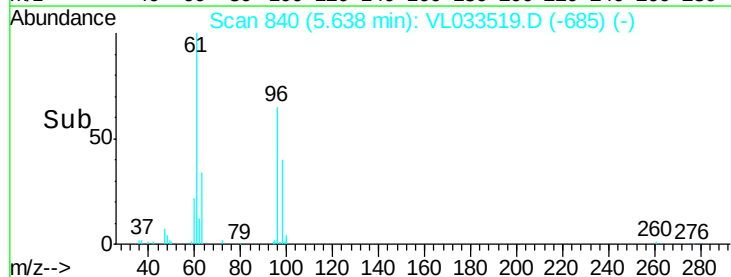
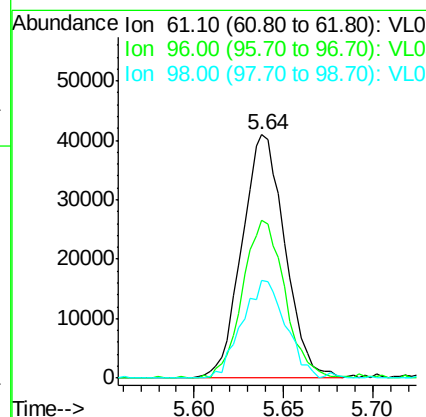
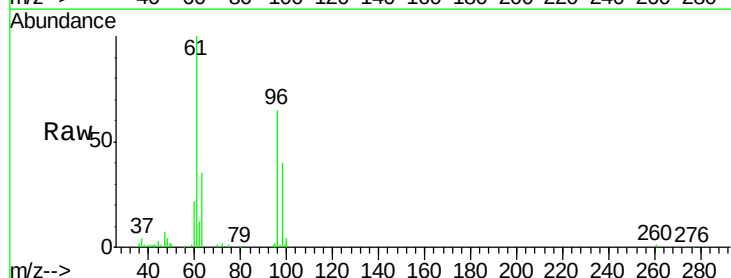
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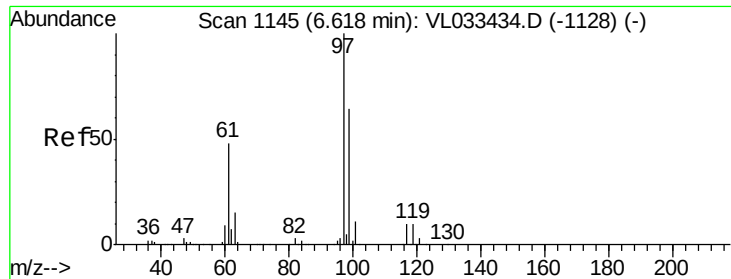
MMDadoda
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#31
cis-1,2-Dichloroethene
Concen: 0.808 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.6	50.6	76.0
98	40.0	32.2	48.2





#32

1,1,1-Trichloroethane

Concen: 0.109 ppbv m

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

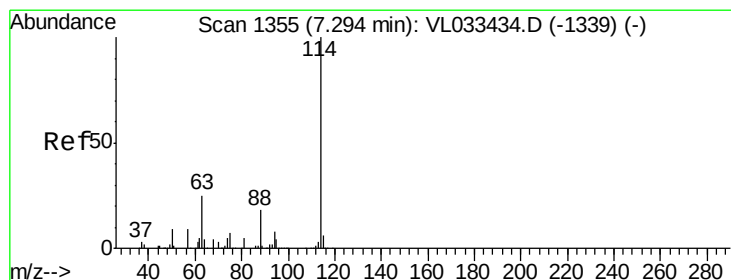
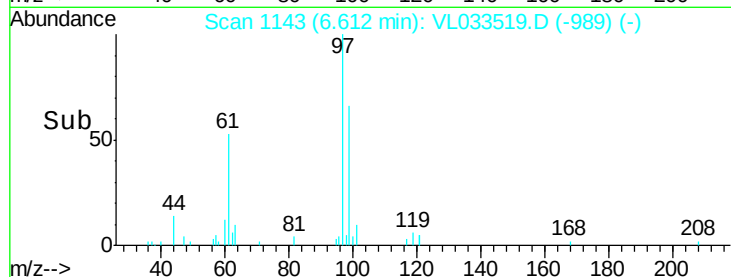
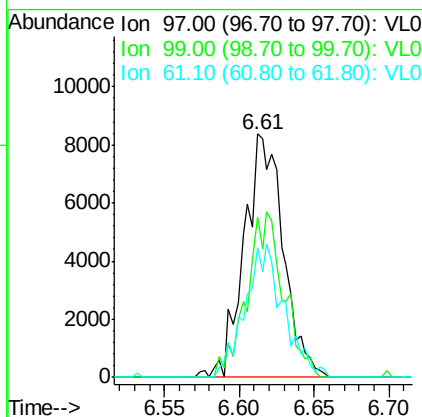
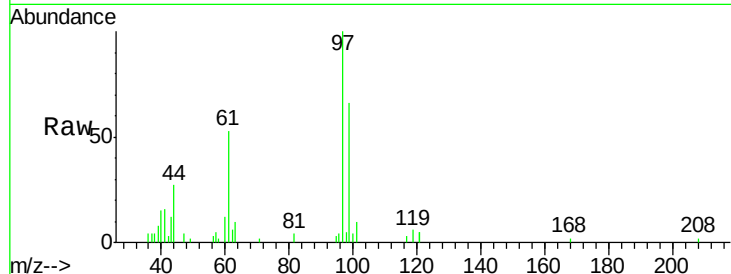
ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion:	97	Resp:	15230
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.5	77.3#
61	0.0	38.8	58.2#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

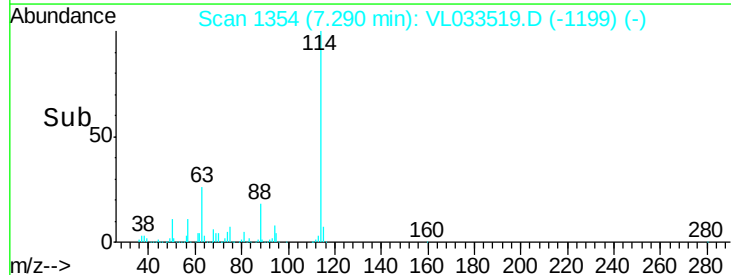
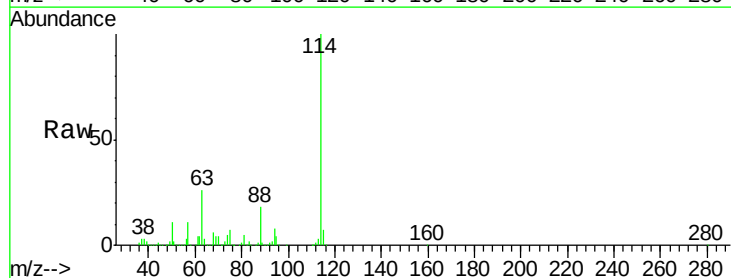
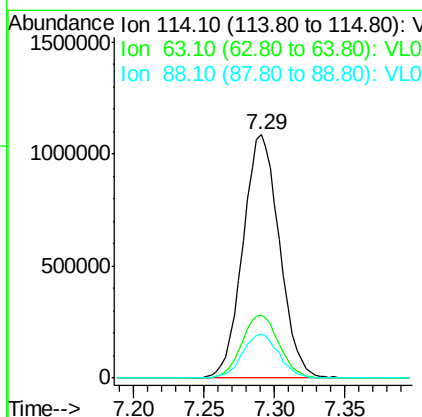
RT: 7.29 min Scan# 1354

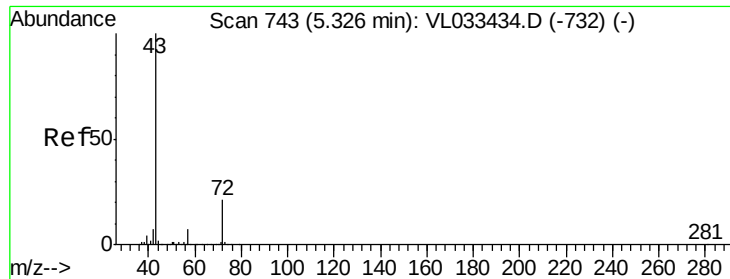
Delta R.T. -0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Tgt Ion:	114	Resp:	1974555
Ion Ratio	Lower	Upper	
114	100		
63	26.5	21.5	32.3
88	18.1	14.5	21.7





#34

2-Butanone

Concen: 0.722 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion: 43 Resp: 85668

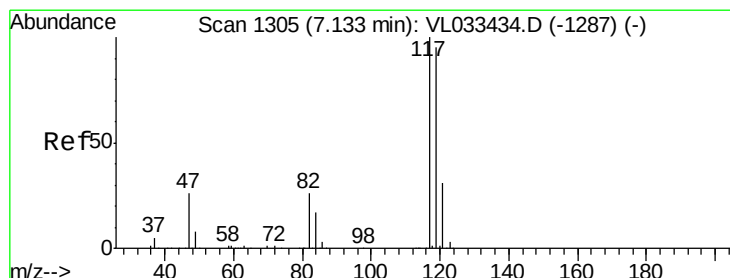
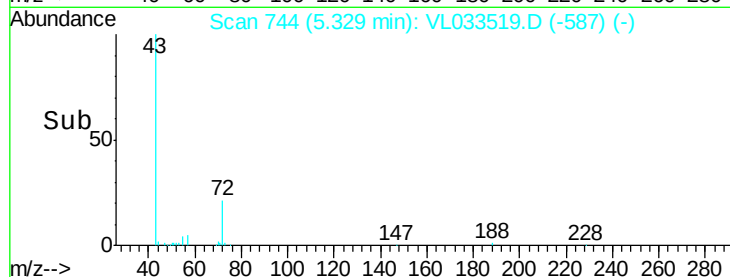
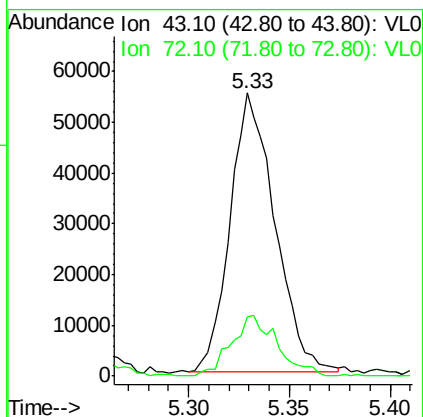
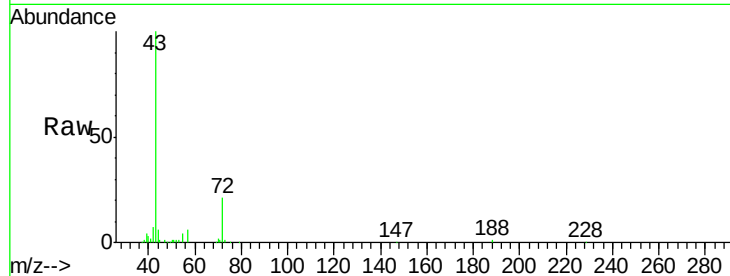
Ion Ratio Lower Upper

43 100

72 22.3 17.4 26.2

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#35

Carbon Tetrachloride

Concen: 0.083 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

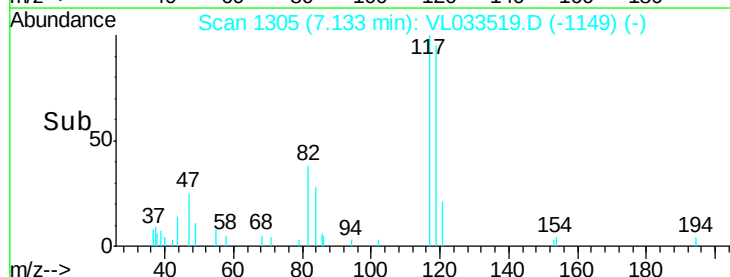
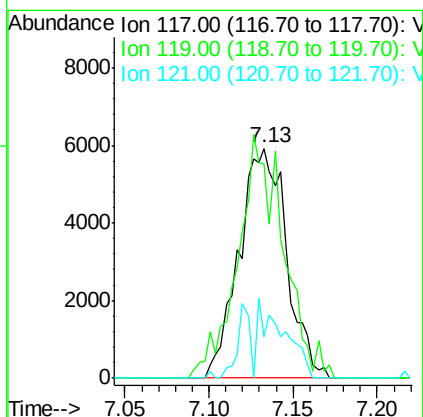
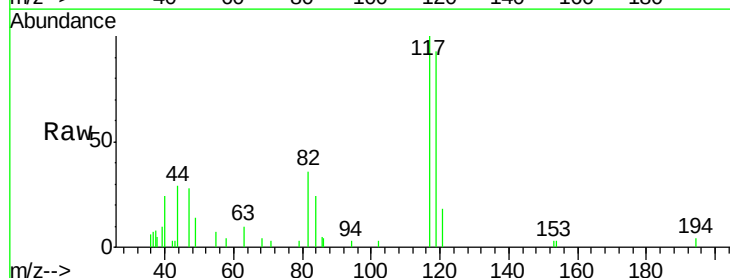
Tgt Ion: 117 Resp: 11639

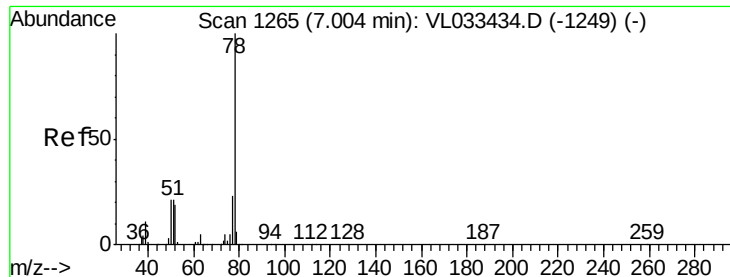
Ion Ratio Lower Upper

117 100

119 93.4 75.8 113.8

121 17.9 24.7 37.1#





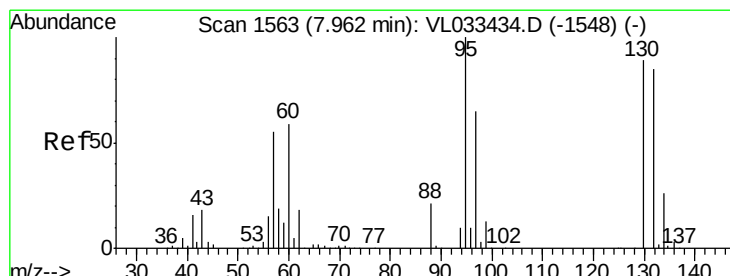
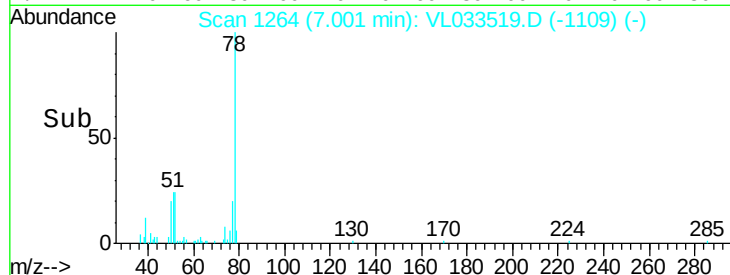
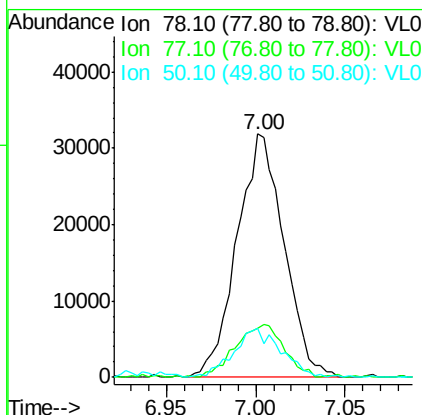
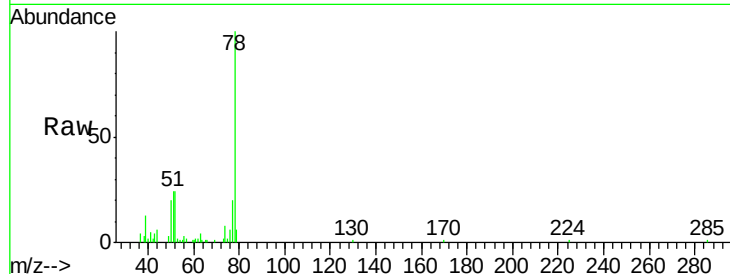
#36
Benzene
Concen: 0.353 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
SG-5-TEACHERS-ROOM

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.1	27.1
50	20.3	16.7	25.1

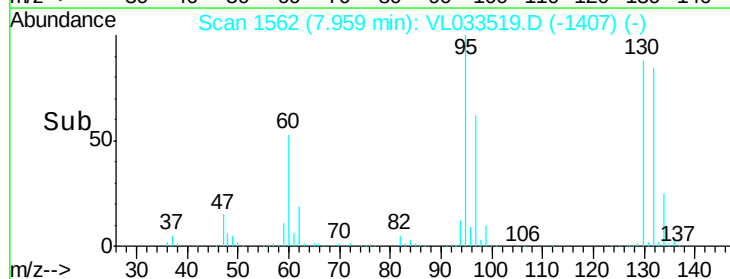
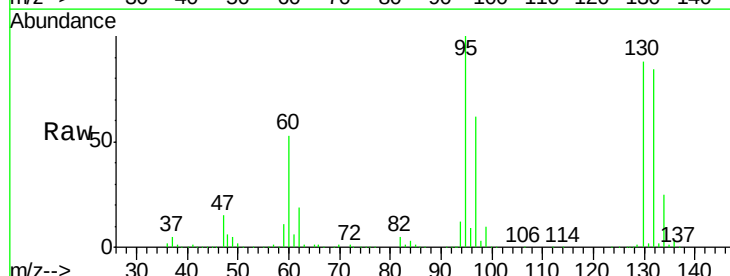
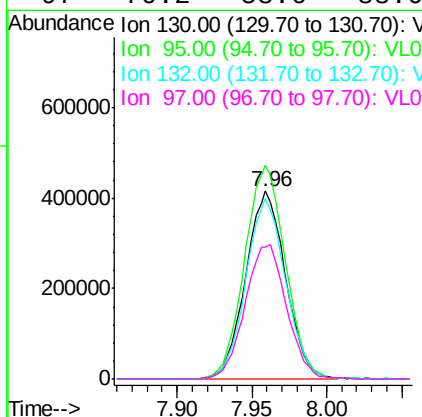
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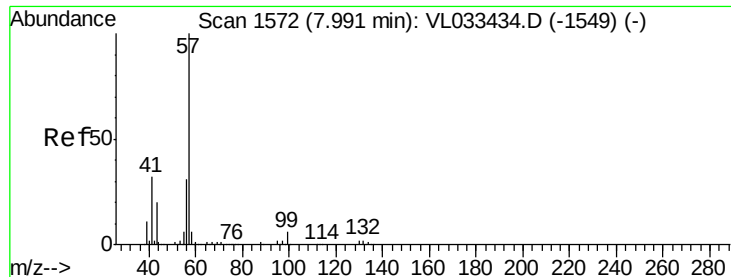
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#38
Trichloroethene
Concen: 12.347 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Tgt Ion	Ratio	Lower	Upper
130	100		
95	113.6	89.8	134.8
132	95.8	76.6	115.0
97	70.2	58.6	88.0





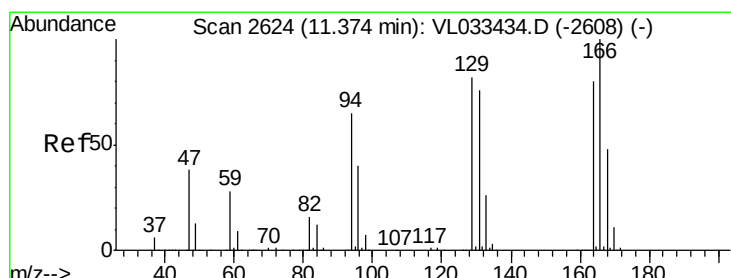
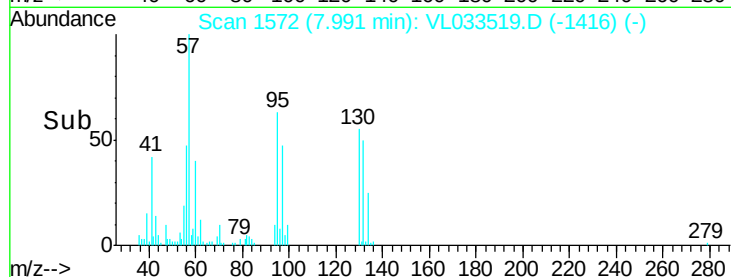
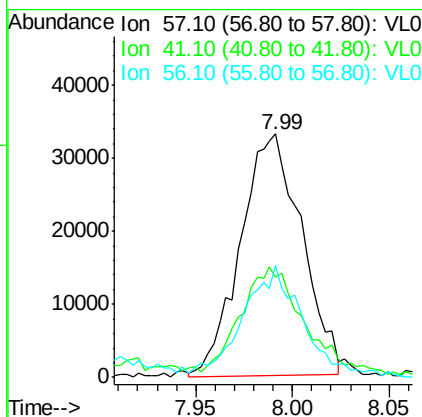
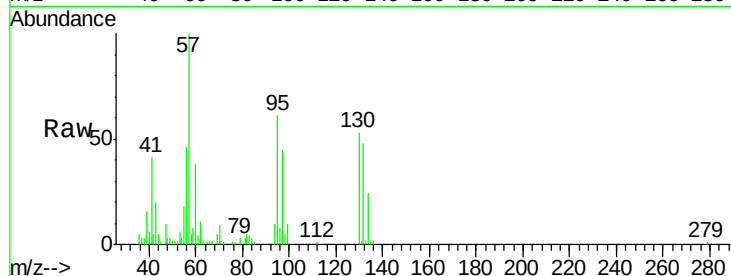
#44
 2,2,4-Trimethylpentane
 Concen: 0.252 ppbv
 RT: 7.99 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL033519.D
 Acq: 30 Mar 2019 2:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5-TEACHERS-ROOM

Tot Ion	Ratio	Lower	Upper
57	100		
41	49.8	26.0	39.0#
56	45.9	24.6	37.0#

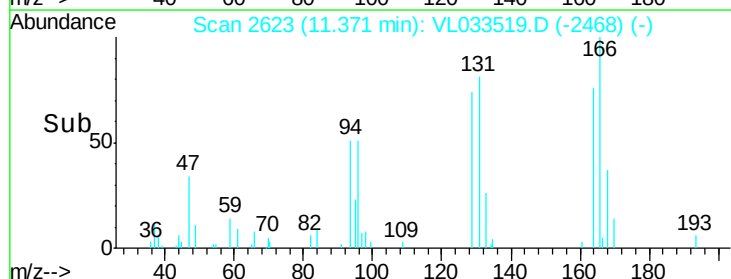
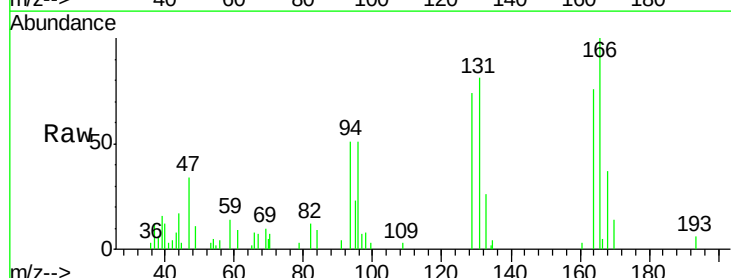
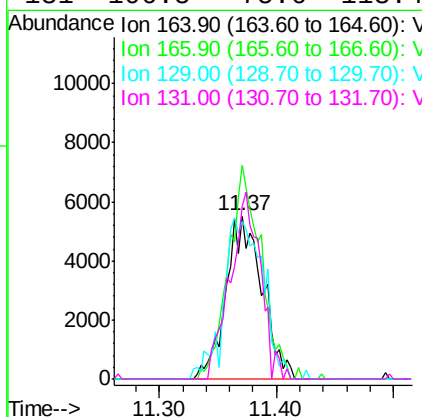
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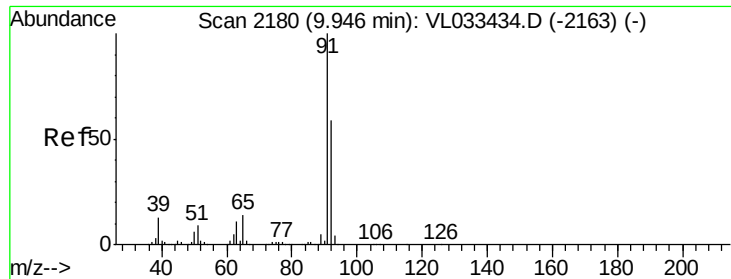
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#52
 Tetrachloroethene
 Concen: 0.188 ppbv m
 RT: 11.37 min Scan# 2623
 Delta R.T. -0.00 min
 Lab File: VL033519.D
 Acq: 30 Mar 2019 2:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.1	99.5	149.3
129	96.4	81.4	122.2
131	106.5	75.6	113.4





#53

Toluene

Concen: 3.684 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion: 91 Resp: 709265

Ion Ratio Lower Upper

91 100

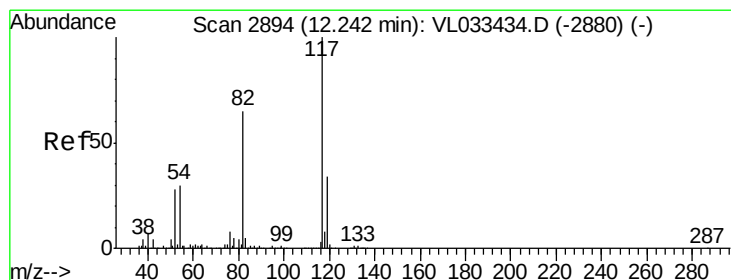
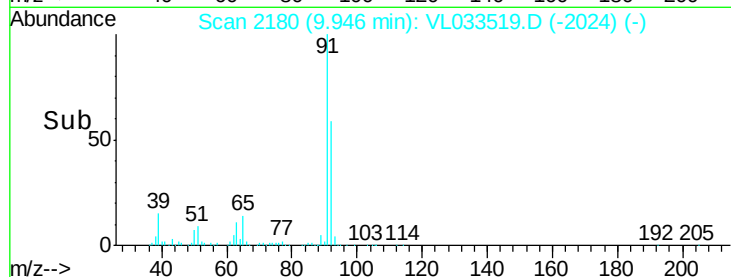
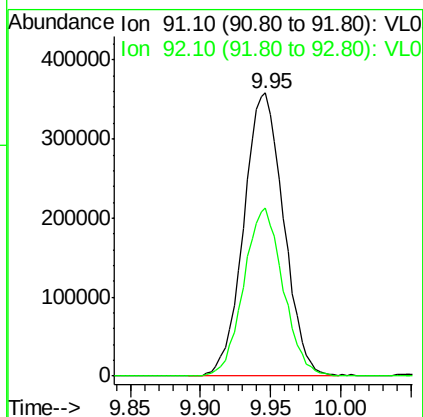
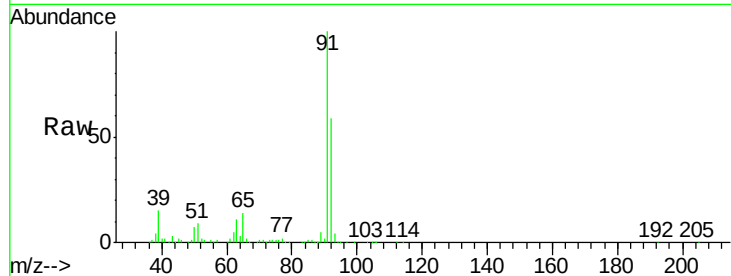
92 58.7 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

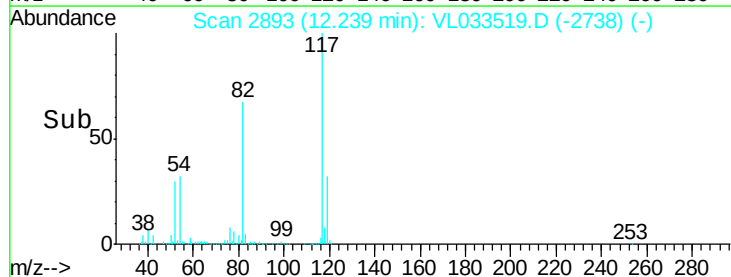
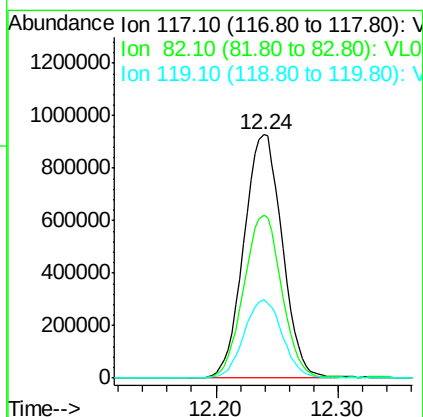
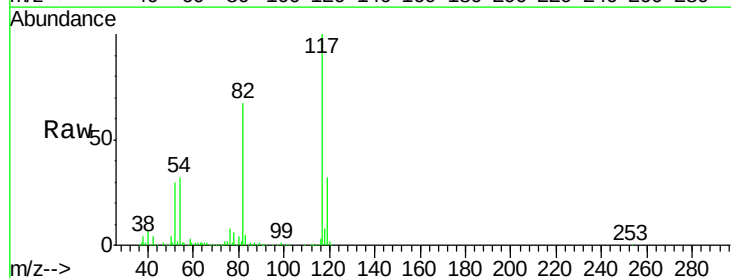
Tgt Ion: 117 Resp: 2009578

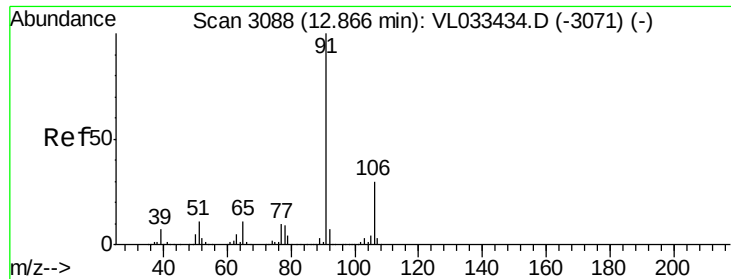
Ion Ratio Lower Upper

117 100

82 66.6 51.5 77.3

119 32.1 25.5 38.3





#58

Ethyl Benzene

Concen: 0.156 ppbv m

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033519.D

Acq: 30 Mar 2019 2:17

Instrument :

MSVOA_L

ClientSampleId :

SG-5-TEACHERS-ROOM

Tot Ion: 91 Resp: 41774

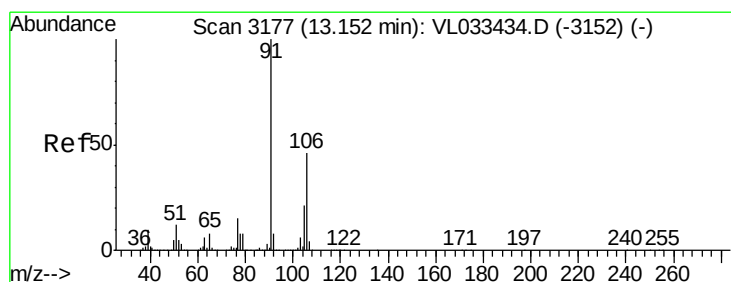
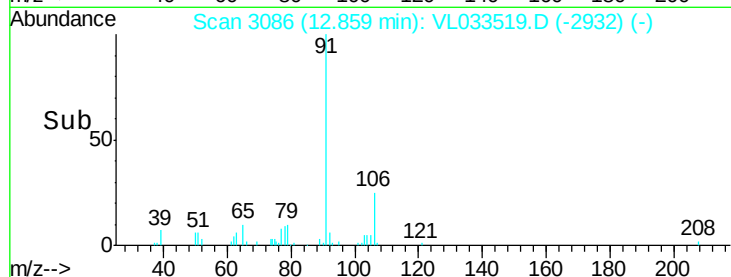
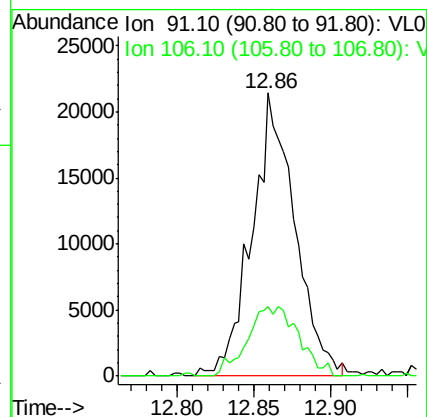
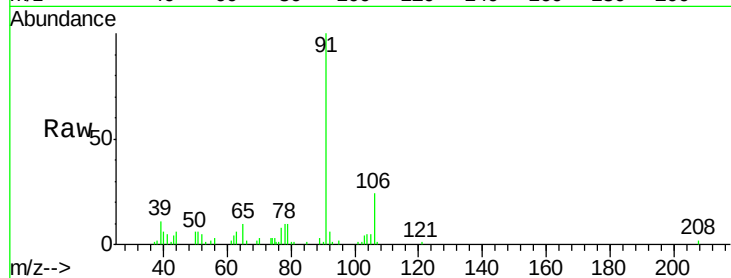
Ion Ratio Lower Upper

91 100

106 24.4 23.8 35.6

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#59

m/p-Xylene

Concen: 0.546 ppbv m

RT: 13.12 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL033519.D

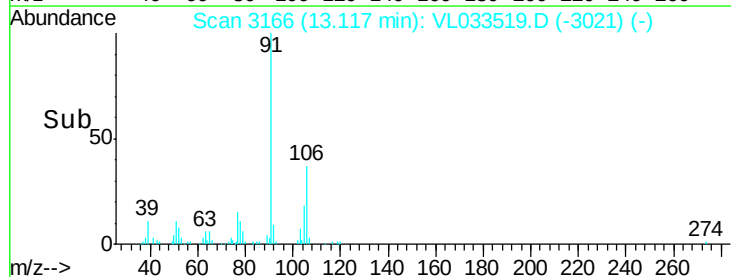
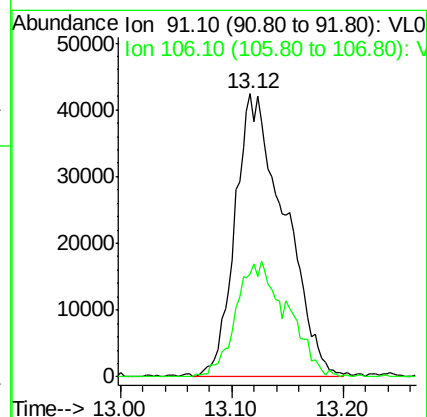
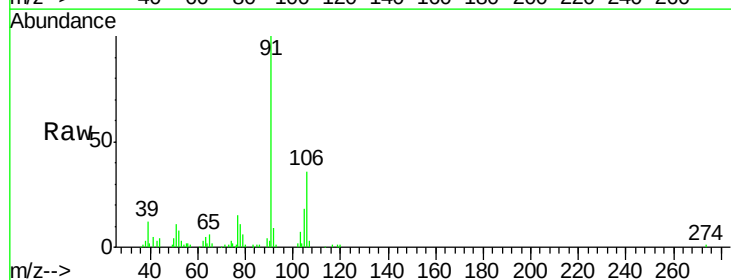
Acq: 30 Mar 2019 2:17

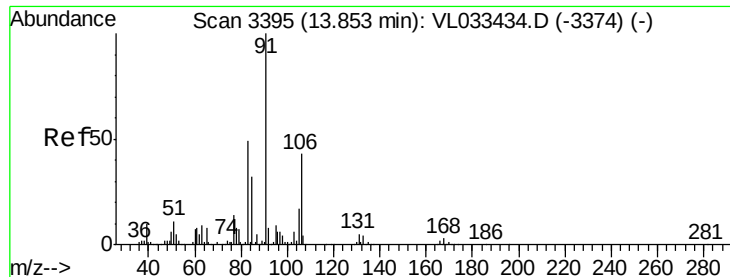
Tgt Ion: 91 Resp: 130925

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





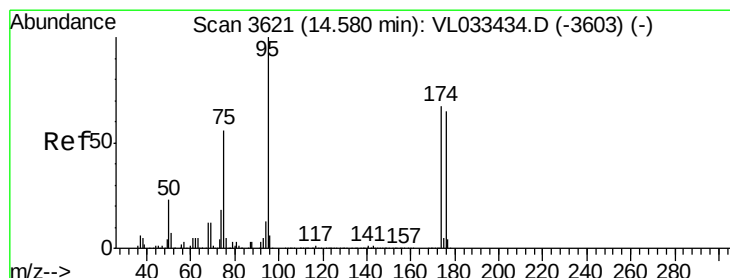
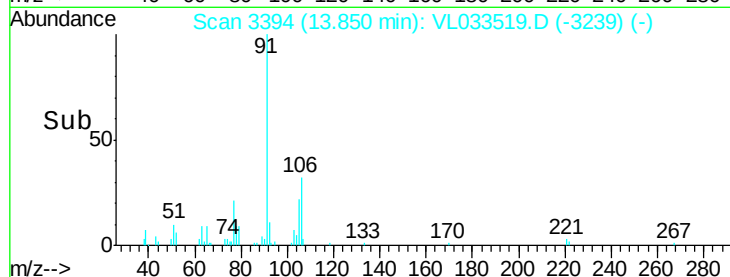
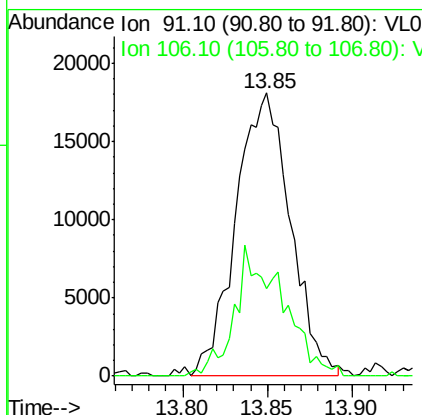
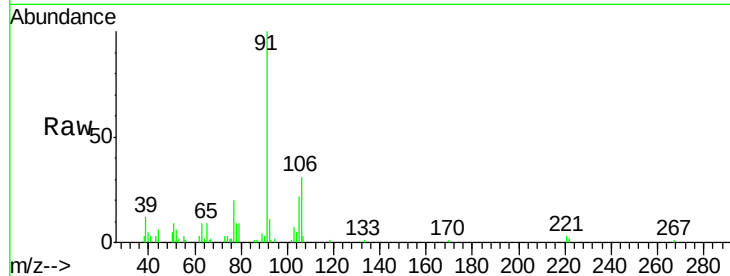
#60
o-Xylene
Concen: 0.175 ppbv m
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Instrument :
MSVOA_L
ClientSampleId :
SG-5-TEACHERS-ROOM

Tot Ion: 91 Resp: 40546
Ion Ratio Lower Upper
91 100
106 40.7 21.4 64.3

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.867 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033519.D
Acq: 30 Mar 2019 2:17

Tgt Ion: 95 Resp: 1554426
Ion Ratio Lower Upper
95 100
174 65.9 52.9 79.3
175 4.9 3.8 5.6

