

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035542.D
 Acq On : 3 Sep 2020 22:32
 Operator : SY/AP
 Sample : L3898-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Quant Time: Sep 04 06:48:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1040636	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	4478263	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.13	117	4469346	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3325340	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	63137	0.350	ppbv	97
3) Chlorodifluoromethane	2.97	51	337148	2.929	ppbv #	67
4) Chloromethane	3.15	50	37072	0.601	ppbv	100
9) Propene	3.03	41	444785	10.024	ppbv #	64
10) Heptane	8.16	43	47153	0.396	ppbv	99
11) Trichlorofluoromethane	3.96	101	969875	3.688	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	7557	0.038	ppbv #	10
13) Ethanol	3.64	45	1327580	120.676	ppbv	97
15) Acetone	3.88	43	17856539	155.582	ppbv #	48
16) 1,3-Butadiene	3.31	39	23827	0.558	ppbv #	19
17) tert-Butyl alcohol	4.34	59	1429109	10.229	ppbv #	72
19) Isopropyl Alcohol	4.00	45	660431	9.646	ppbv #	93
20) Methylene Chloride	4.38	84	1323886	15.487	ppbv	96
21) Allyl Chloride	4.38	41	19370	0.360	ppbv #	52
23) Vinyl Acetate	5.11	43	330095	2.241	ppbv #	92
25) Ethyl Acetate	5.71	43	487099	2.402	ppbv #	81
26) Hexane	5.71	57	704088	6.129	ppbv #	54
29) Chloroform	5.79	83	47239	0.202	ppbv	93
30) Cyclohexane	7.16	84	42053	0.342	ppbv	96
32) 1,1,1-Trichloroethane	6.55	97	39880	0.176	ppbv	96
34) 2-Butanone	5.28	43	324732	2.443	ppbv	99
35) Carbon Tetrachloride	7.05	117	17238	0.077	ppbv #	76
36) Benzene	6.93	78	158146	0.546	ppbv	98
37) 1,2-Dichloroethane	6.34	62	19727	0.143	ppbv #	92
39) 1,2-Dichloropropane	7.21	63	819401	8.368	ppbv #	32
41) Tetrahydrofuran	6.09	42	16277	0.231	ppbv #	91
43) Methyl Methacrylate	8.05	69	4600	0.041	ppbv #	63
44) 2,2,4-Trimethylpentane	7.90	57	229007	0.600	ppbv #	84
50) 4-Methyl-2-Pentanone	8.79	43	47160	0.245	ppbv	99
51) 2-Hexanone	10.19	43	10098	0.064	ppbv #	1
52) Tetrachloroethene	11.26	164	23642	0.140	ppbv	88
53) Toluene	9.84	91	2710932	7.437	ppbv	99
58) Ethyl Benzene	12.75	91	259954	0.564	ppbv	93
59) m/p-Xylene	13.01	91	887775	2.305	ppbv	97
60) o-Xylene	13.73	91	303014	0.781	ppbv	99
61) Styrene	13.57	104	20933	0.071	ppbv	95
62) Isopropylbenzene	14.71	105	28843	0.046	ppbv	93
64) n-propylbenzene	15.61	120	7317	0.038	ppbv #	1
65) tert-Butylbenzene	16.81	119	34911	0.060	ppbv #	74
66) Benzyl Chloride	17.26	91	4523	0.031	ppbv #	68
69) p-Isopropyltoluene	17.70	119	219948	0.325	ppbv	94

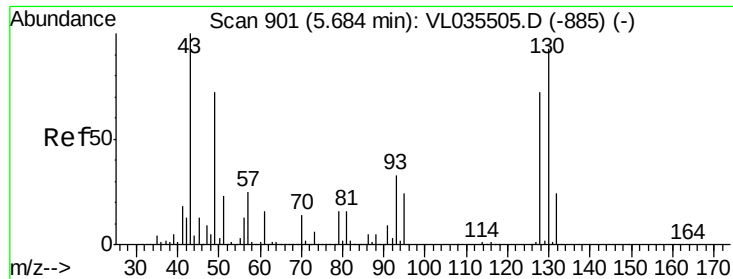
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.60	91	58253	0.128	ppbv #	40
72) 4-Ethyltoluene	15.88	105	80489	0.163	ppbv #	87
73) 1,3,5-Trimethylbenzene	16.04	105	95474	0.209	ppbv	90
74) 1,2,4-Trimethylbenzene	16.81	105	286096	0.571	ppbv #	72
75) 1,3-Dichlorobenzene	17.18	146	135331	0.365	ppbv	97
76) 1,4-Dichlorobenzene	17.18	146	135331	0.370	ppbv	96
79) Naphthalene	22.27	128	293541	0.528	ppbv	95
80) Naphthalene,2-methyl-	25.01	142	7501	0.040	ppbv #	87

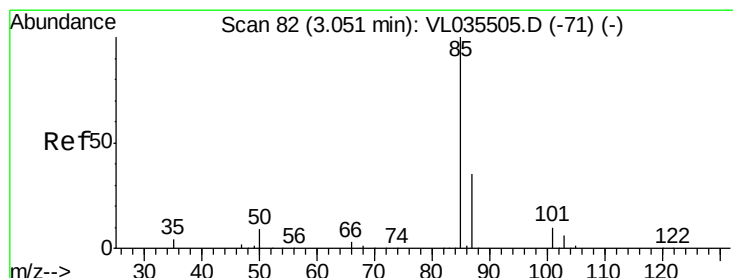
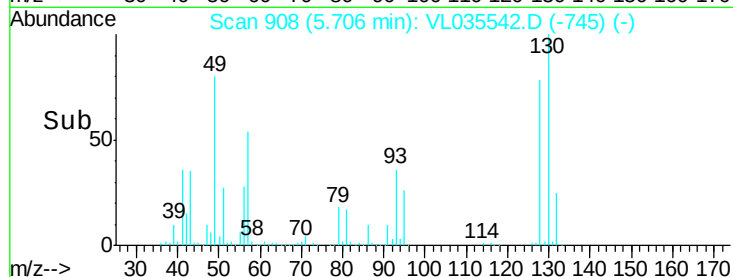
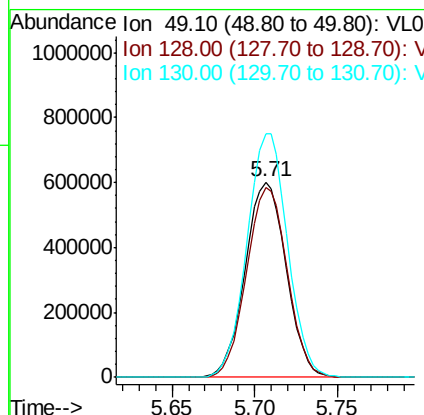
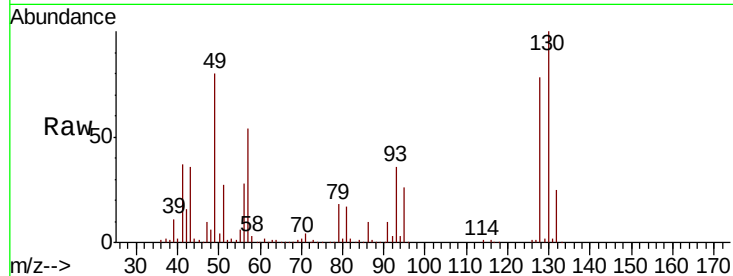
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.71 min Scan# 908
 Delta R.T. 0.02 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

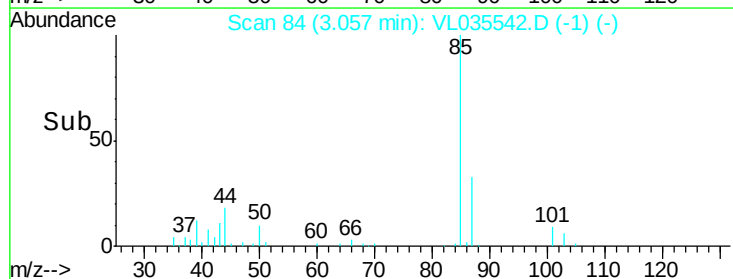
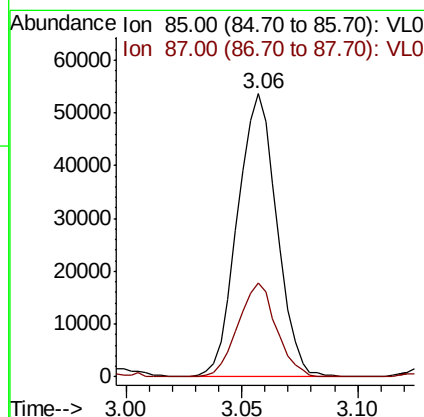
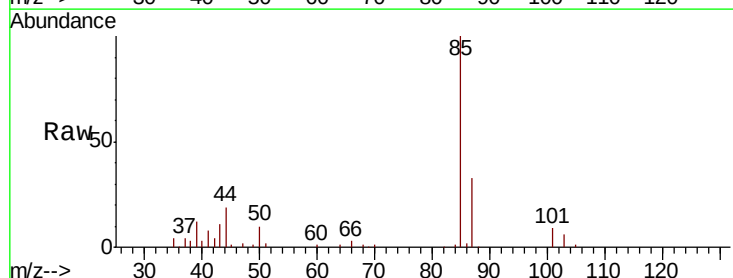
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

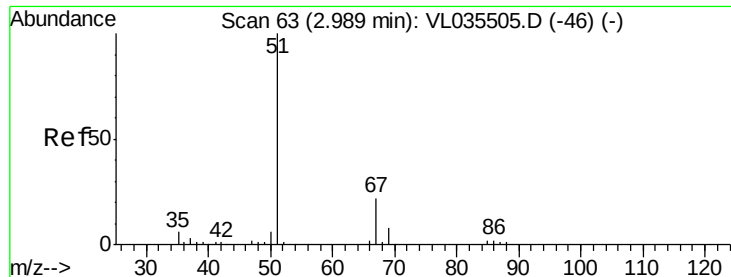
Tot Ion: 49 Resp: 1040636
 Ion Ratio Lower Upper
 49 100
 128 96.7 50.0 150.1
 130 123.9 64.4 193.2



#2
 Dichlorodifluoromethane
 Concen: 0.350 ppbv
 RT: 3.06 min Scan# 84
 Delta R.T. 0.01 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

Tgt Ion: 85 Resp: 63137
 Ion Ratio Lower Upper
 85 100
 87 33.3 28.0 42.0





#3

Chlorodifluoromethane

Concen: 2.929 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

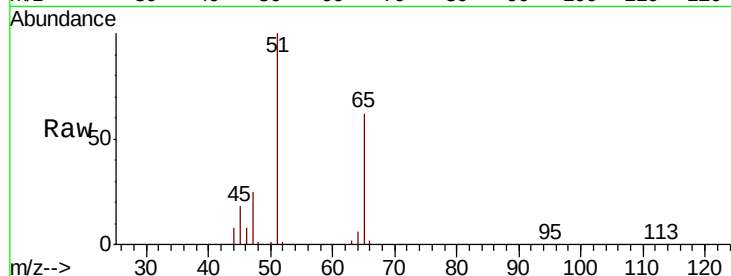
IA-5

Tot Ion: 51 Resp: 337148

Ion Ratio Lower Upper

51 100

67 6.3 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

200000

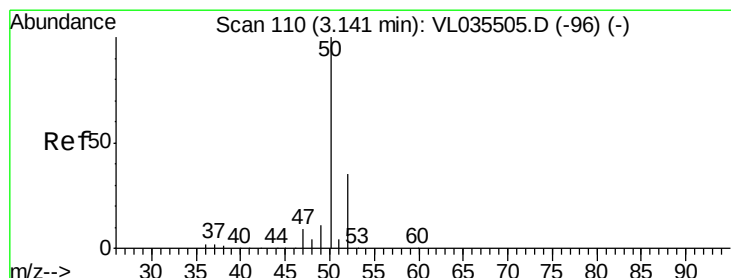
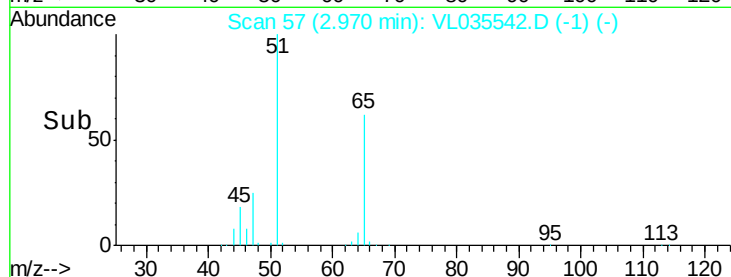
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.601 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL035542.D

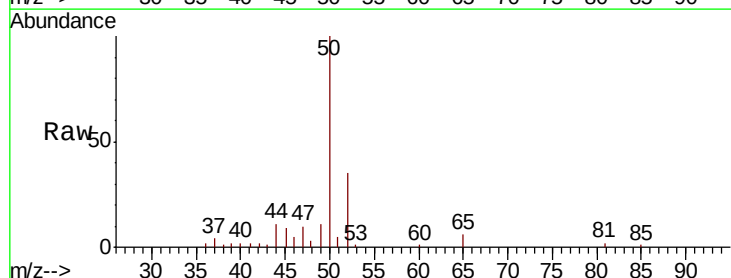
Acq: 3 Sep 2020 22:32

Tgt Ion: 50 Resp: 37072

Ion Ratio Lower Upper

50 100

52 34.7 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.15

30000

25000

20000

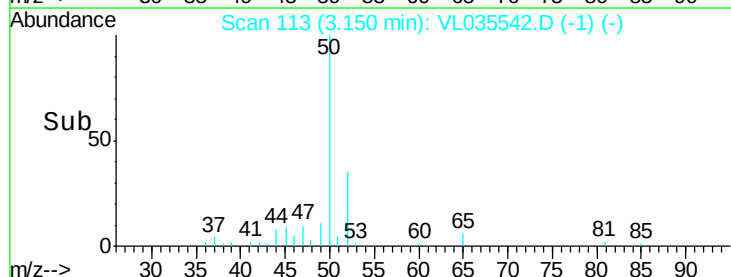
15000

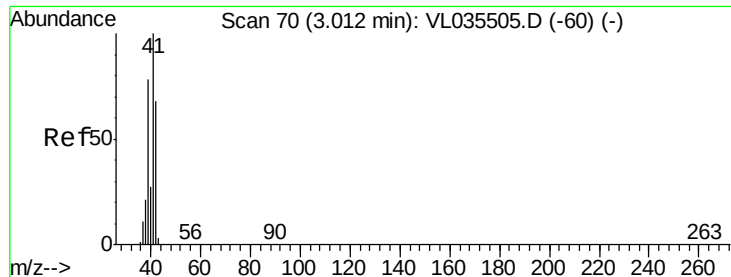
10000

5000

0

Time-->





#9

Propene

Concen: 10.024 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

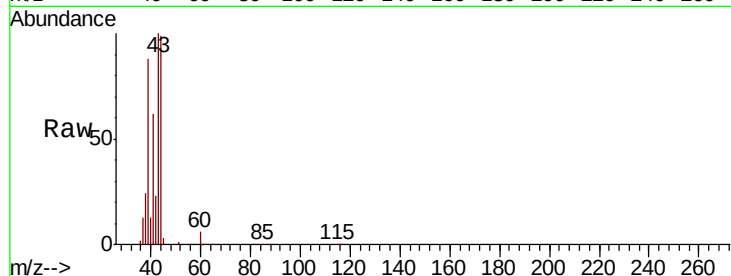
IA-5

Tot Ion: 41 Resp: 444785

Ion Ratio Lower Upper

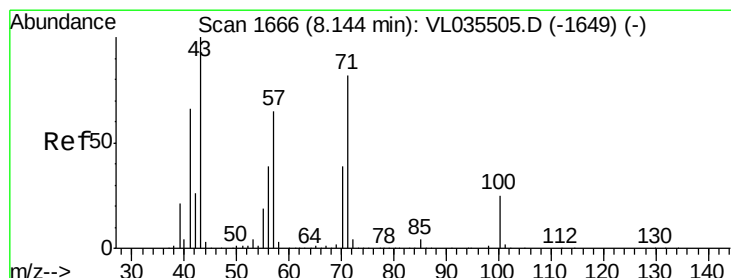
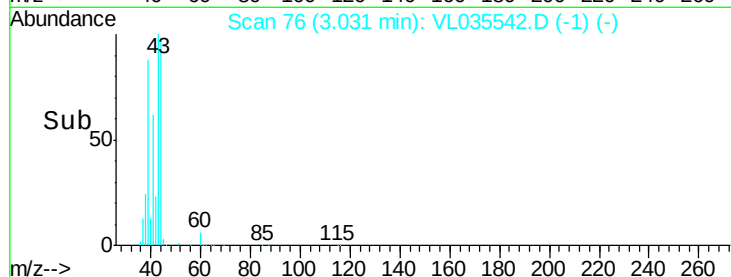
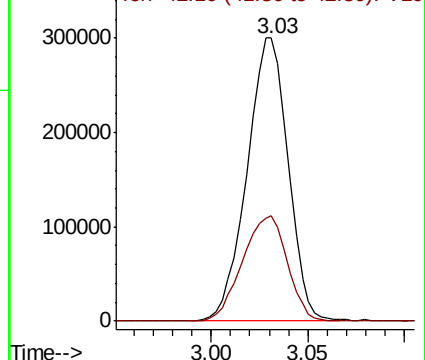
41 100

42 40.8 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.396 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. 0.01 min

Lab File: VL035542.D

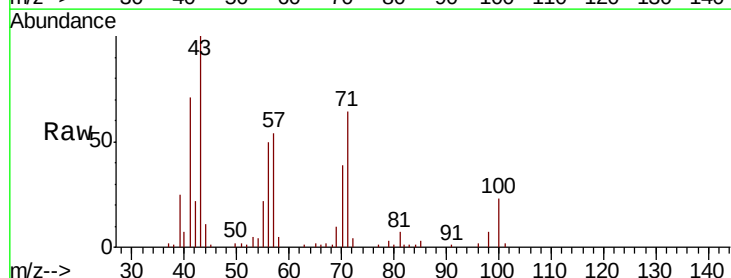
Acq: 3 Sep 2020 22:32

Tgt Ion: 43 Resp: 47153

Ion Ratio Lower Upper

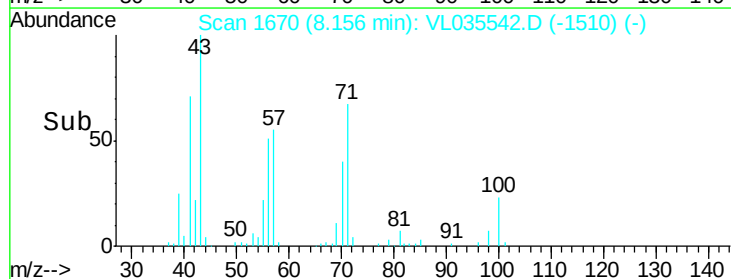
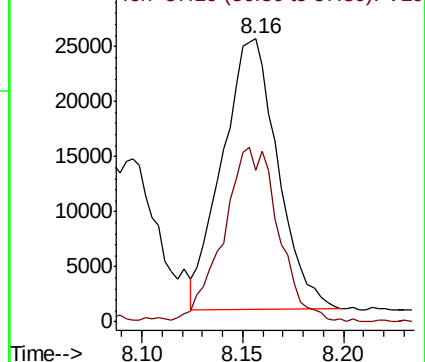
43 100

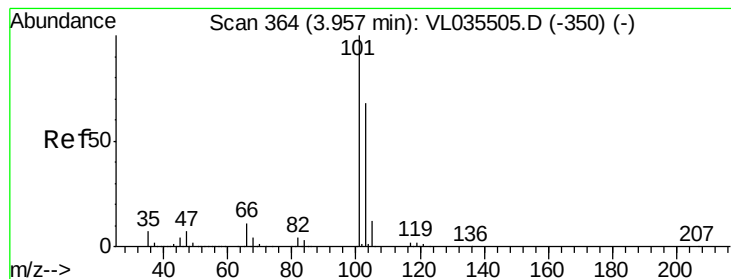
57 64.9 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 3.688 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

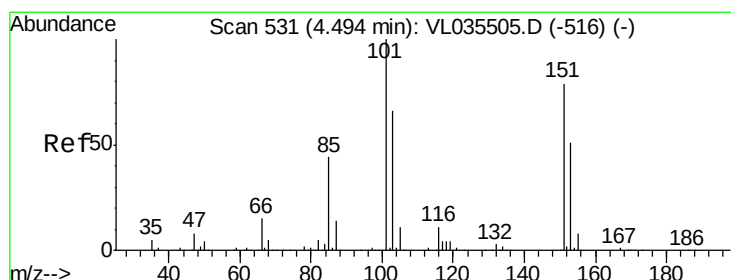
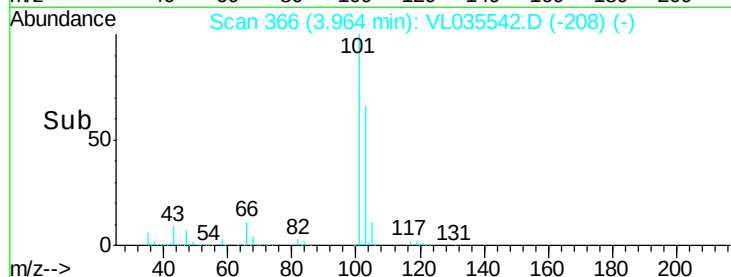
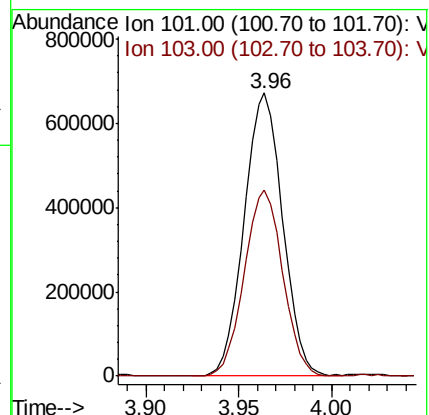
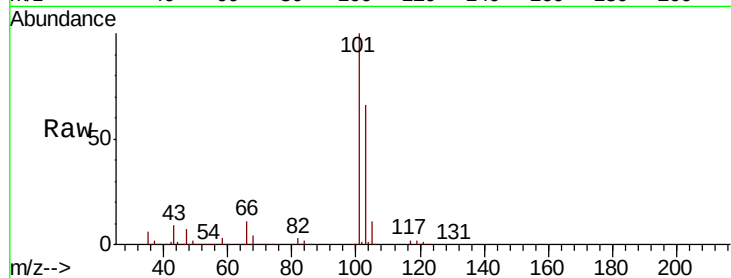
IA-5

Tot Ion:101 Resp: 969875

Ion Ratio Lower Upper

101 100

103 65.5 54.5 81.7



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.038 ppbv

RT: 4.50 min Scan# 534

Delta R.T. 0.01 min

Lab File: VL035542.D

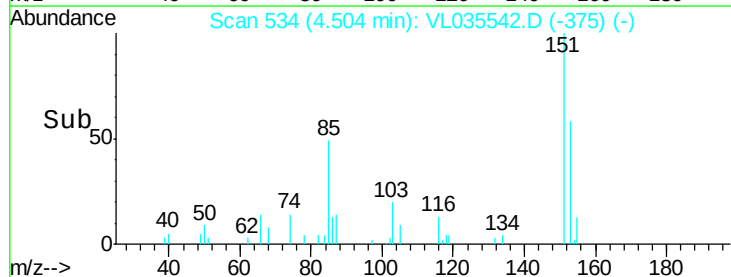
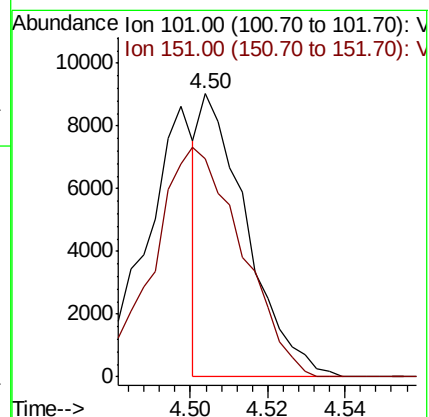
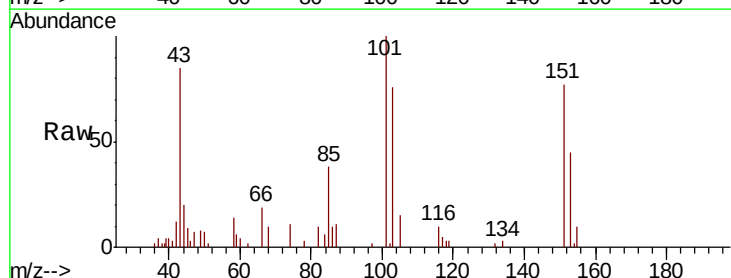
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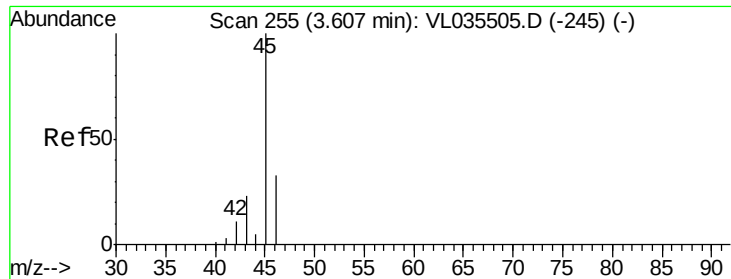
Tgt Ion:101 Resp: 7557

Ion Ratio Lower Upper

101 100

151 0.0 63.5 95.3#





#13

Ethanol

Concen: 120.676 ppbv

RT: 3.64 min Scan# 264

Delta R.T. 0.03 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampled :

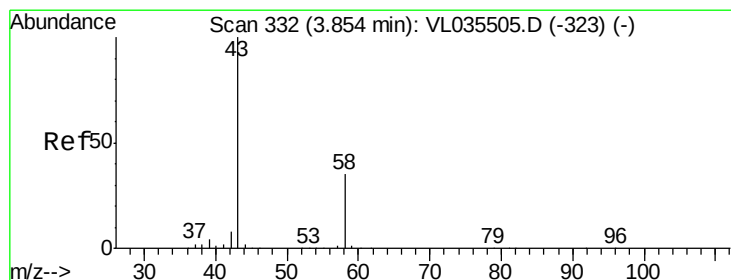
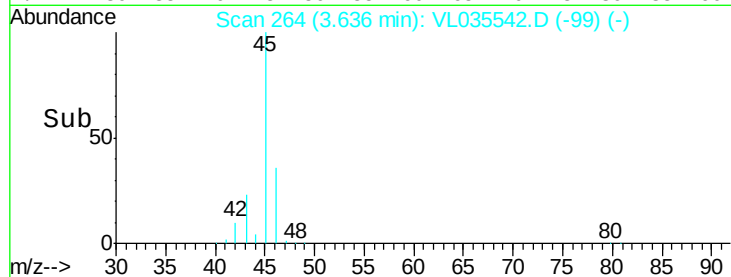
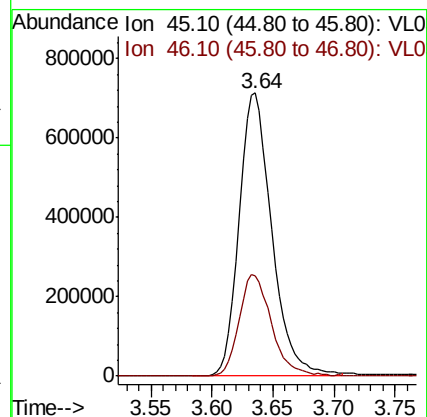
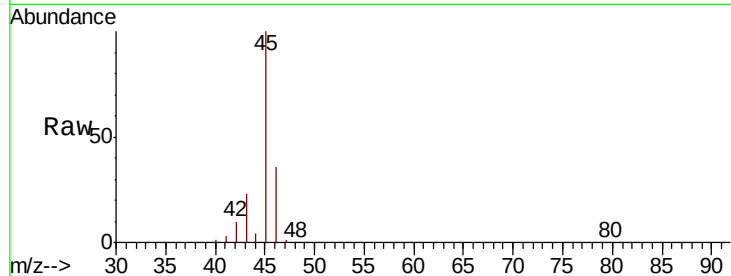
IA-5

Tot Ion: 45 Resp: 1327580

Ion Ratio Lower Upper

45 100

46 35.9 15.2 60.6



#15

Acetone

Concen: 155.582 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.02 min

Lab File: VL035542.D

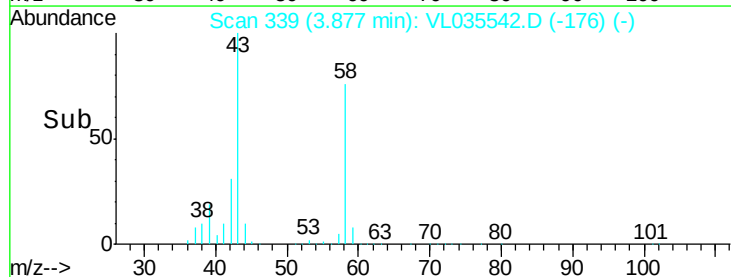
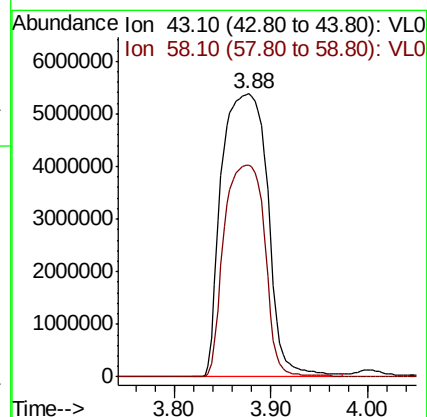
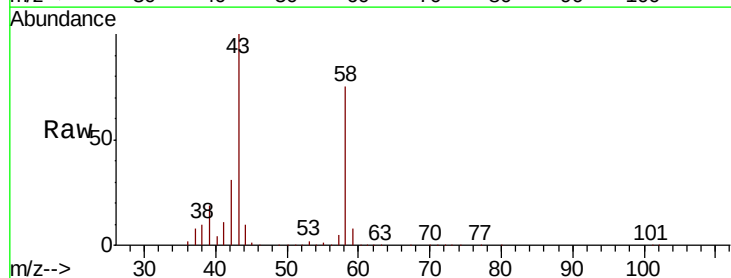
Acq: 3 Sep 2020 22:32

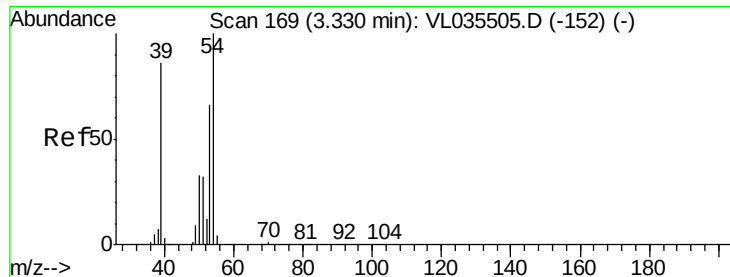
Tgt Ion: 43 Resp: 17856539

Ion Ratio Lower Upper

43 100

58 65.7 28.4 42.6#

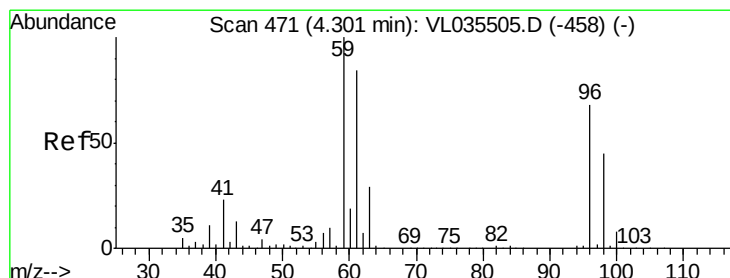
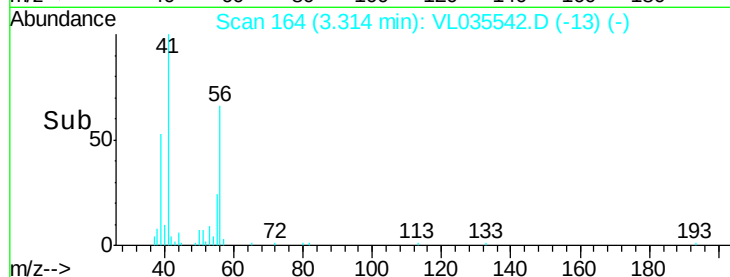
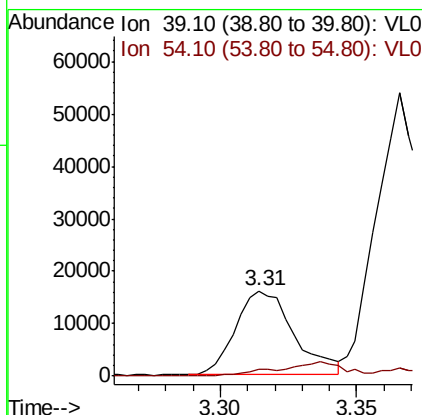
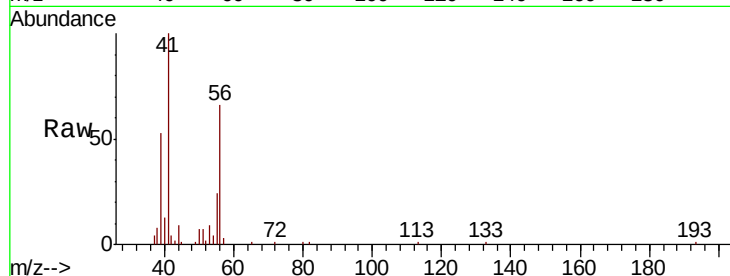




#16
 1,3-Butadiene
 Concen: 0.558 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.02 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

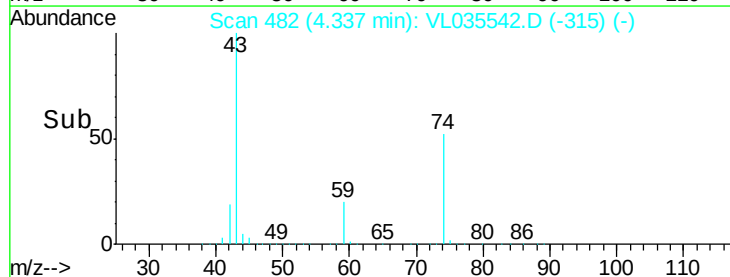
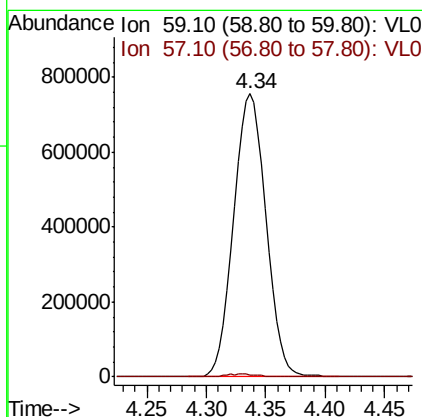
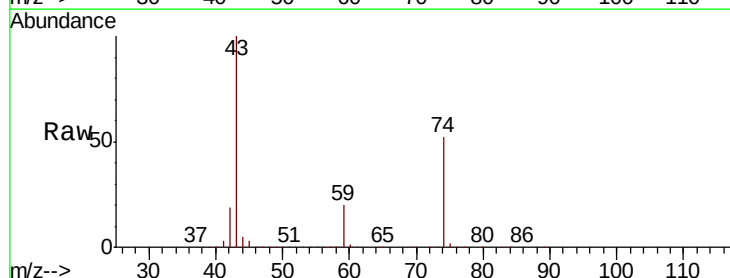
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

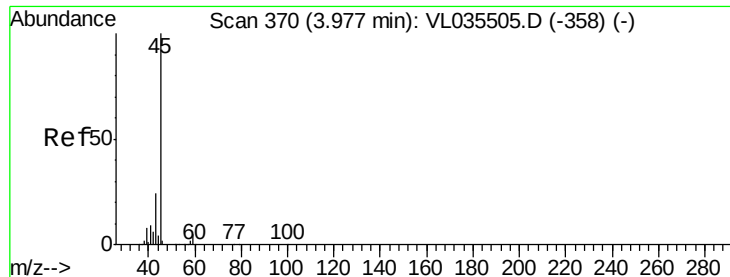
Tot Ion: 39 Resp: 23827
 Ion Ratio Lower Upper
 39 100
 54 24.7 88.4 132.6#



#17
 tert-Butyl alcohol
 Concen: 10.229 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. 0.04 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

Tgt Ion: 59 Resp: 1429109
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 9.646 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.03 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampled :

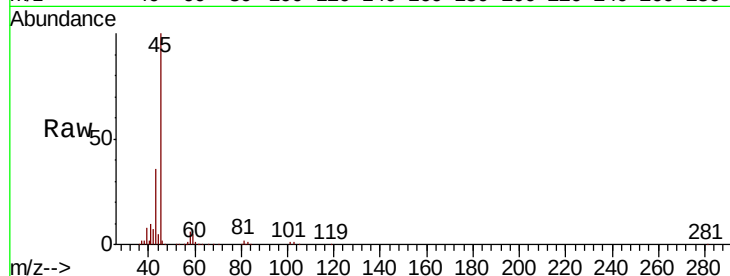
IA-5

Tot Ion: 45 Resp: 660431

Ion Ratio Lower Upper

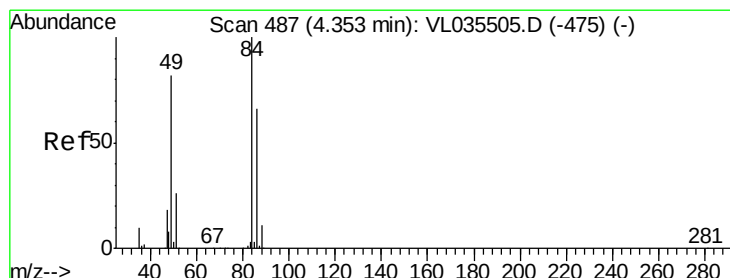
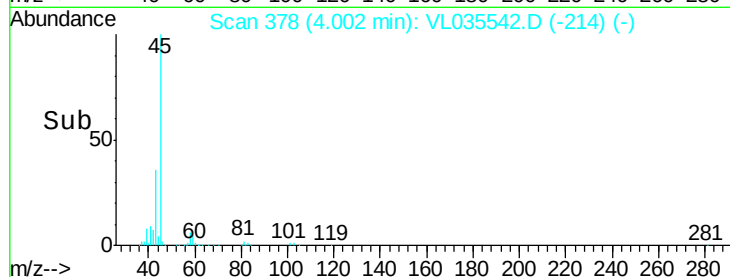
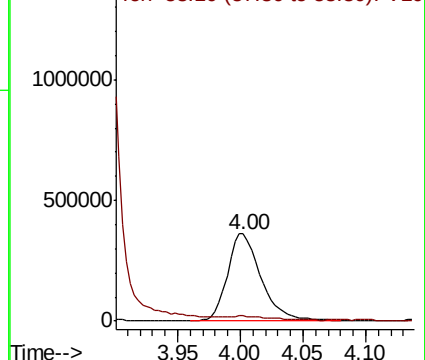
45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 15.487 ppbv

RT: 4.38 min Scan# 495

Delta R.T. 0.03 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Tgt Ion: 84 Resp: 1323886

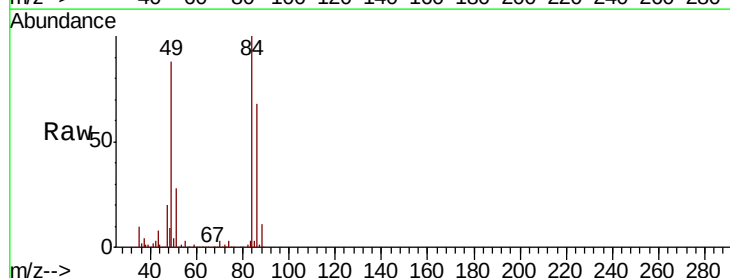
Ion Ratio Lower Upper

84 100

49 87.5 65.4 98.0

51 27.8 21.5 32.3

86 67.8 52.9 79.3

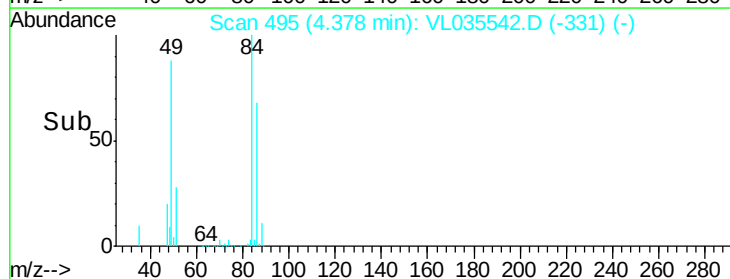
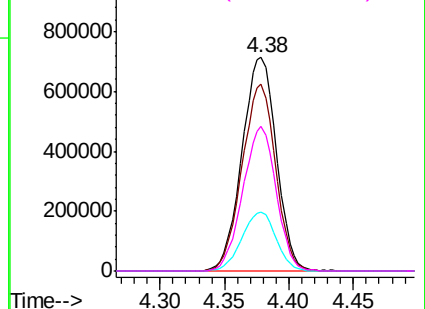


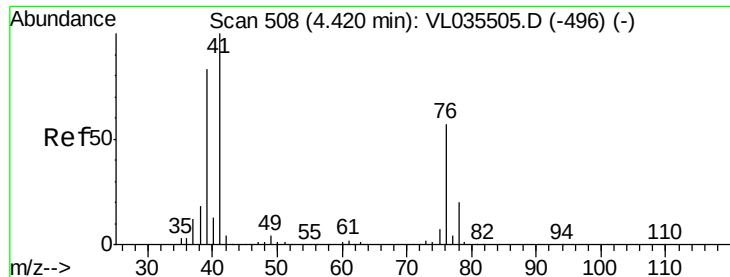
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 0.360 ppbv

RT: 4.38 min Scan# 496

Delta R.T. -0.04 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

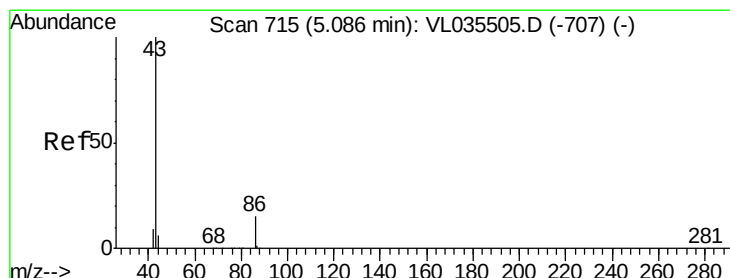
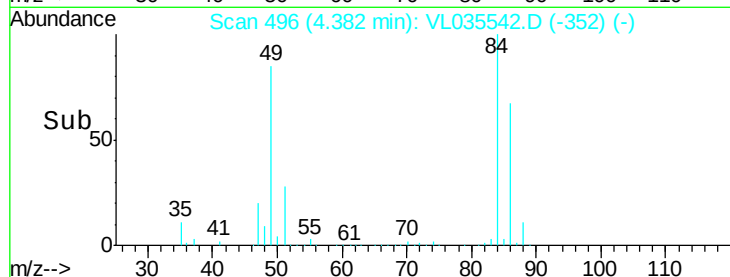
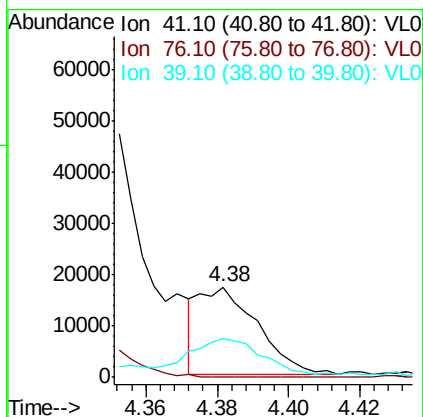
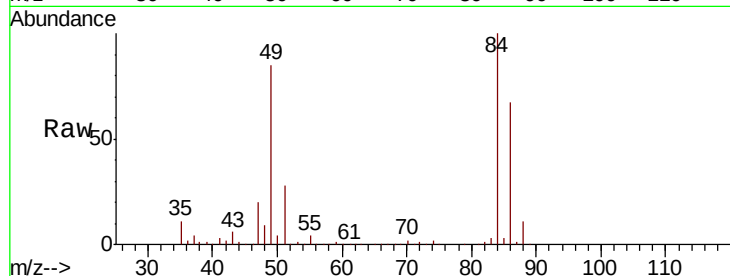
Tot Ion: 41 Resp: 19370

Ion Ratio Lower Upper

41 100

76 0.0 46.2 69.2#

39 59.9 67.8 101.6#



#23

Vinyl Acetate

Concen: 2.241 ppbv

RT: 5.11 min Scan# 721

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Tgt Ion: 43 Resp: 330095

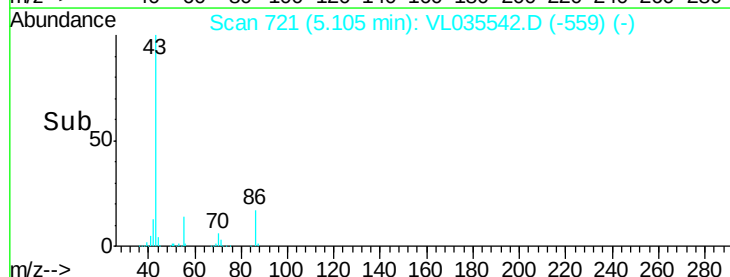
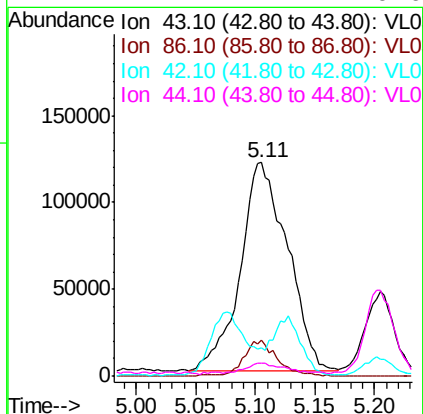
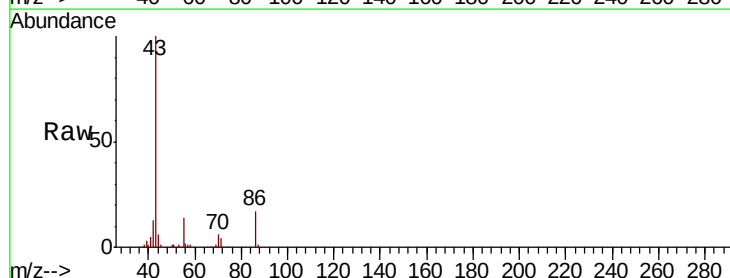
Ion Ratio Lower Upper

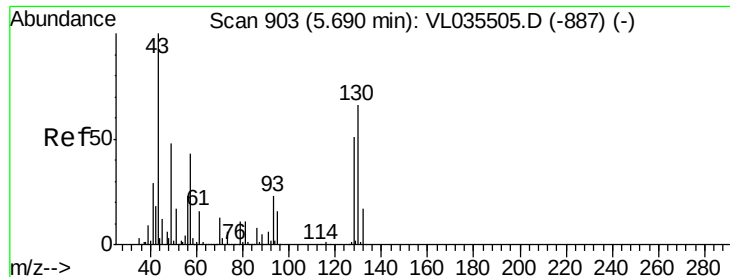
43 100

86 17.0 10.6 16.0#

42 12.8 7.5 11.3#

44 4.1 4.4 6.6#

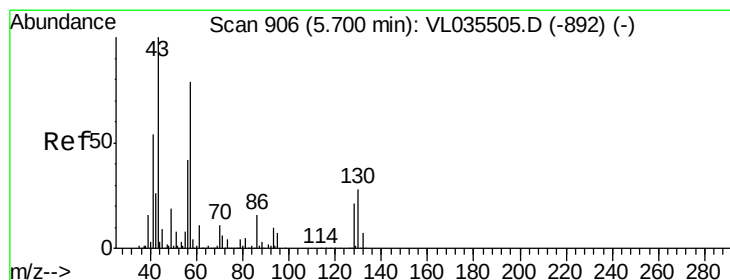
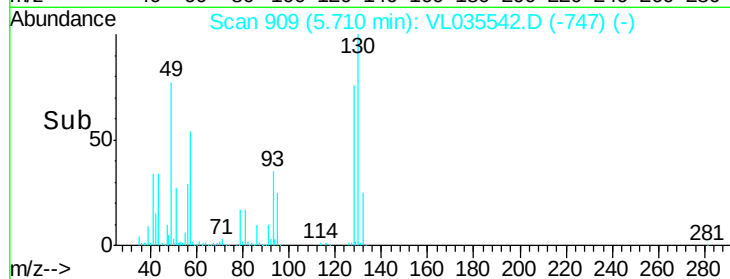
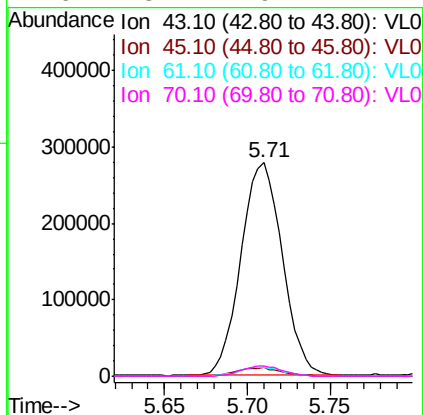
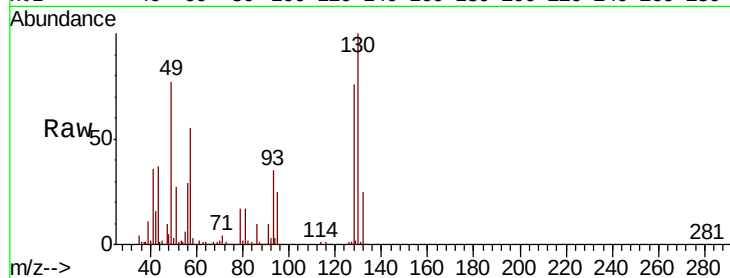




#25
Ethyl Acetate
Concen: 2.402 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

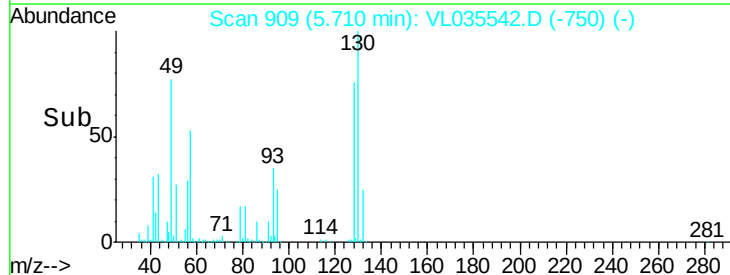
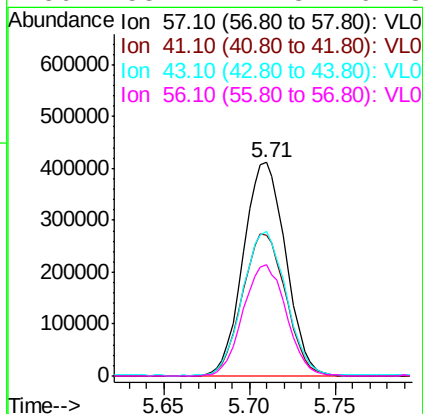
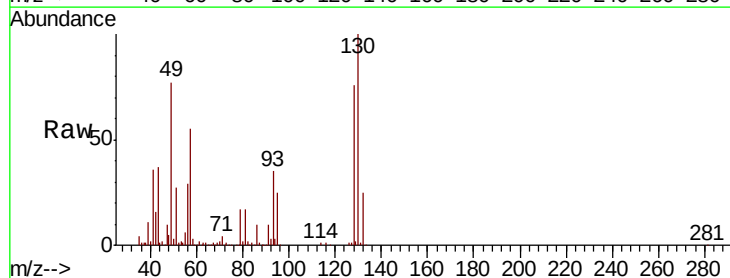
Instrument :
MSVOA_L
ClientSampleId :
IA-5

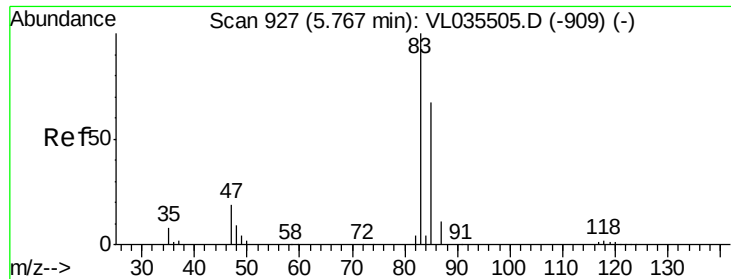
Tot Ion:	43	Resp:	487099
Ion	Ratio	Lower	Upper
43	100		
45	4.6	8.4	12.6#
61	4.5	10.6	16.0#
70	5.1	9.4	14.2#



#26
Hexane
Concen: 6.129 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion:	57	Resp:	704088
Ion	Ratio	Lower	Upper
57	100		
41	68.4	55.9	83.9
43	69.3	141.8	212.8#
56	53.1	41.8	62.8

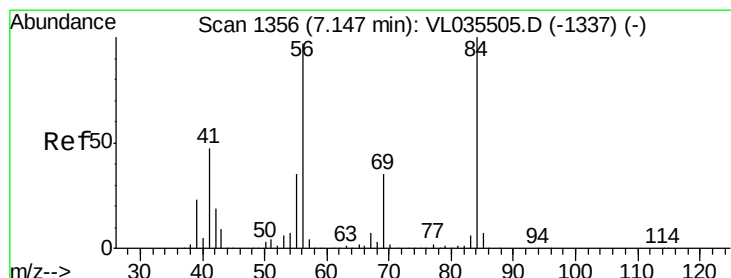
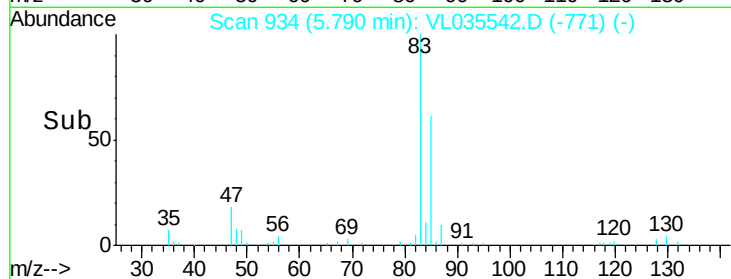
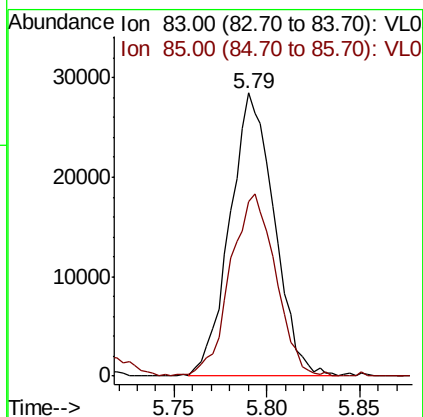
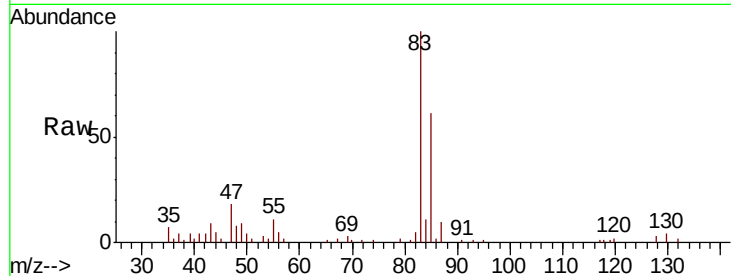




#29
Chloroform
Concen: 0.202 ppbv
RT: 5.79 min Scan# 934
Delta R.T. 0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

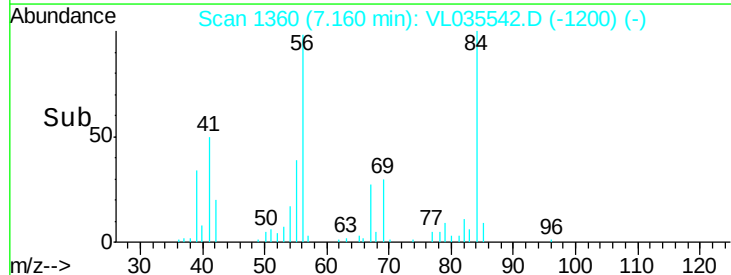
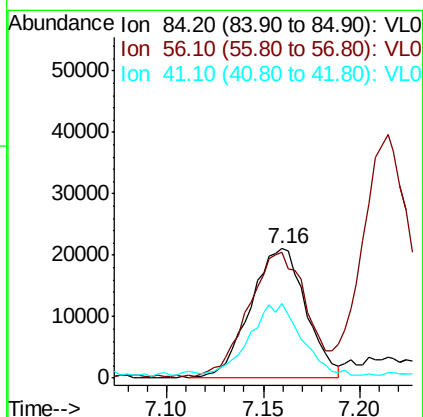
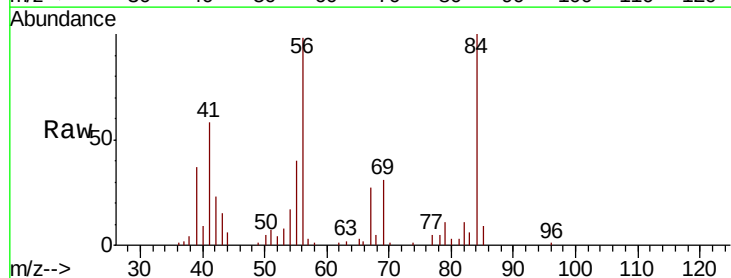
Instrument :
MSVOA_L
ClientSampleId :
IA-5

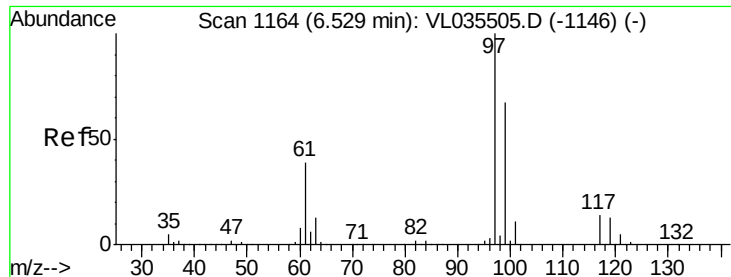
Tot Ion: 83 Resp: 47239
Ion Ratio Lower Upper
83 100
85 61.5 53.9 80.9



#30
Cyclohexane
Concen: 0.342 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion: 84 Resp: 42053
Ion Ratio Lower Upper
84 100
56 100.9 80.1 120.1
41 54.8 38.1 57.1





#32

1,1,1-Trichloroethane

Concen: 0.176 ppbv

RT: 6.55 min Scan# 1170

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

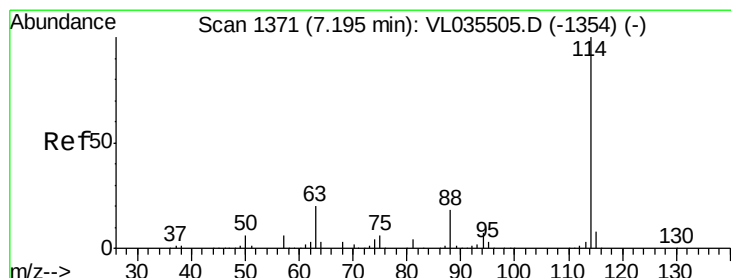
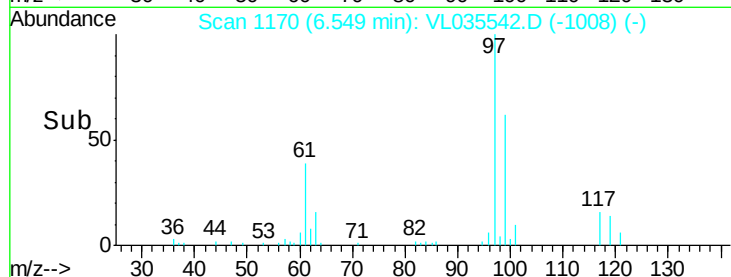
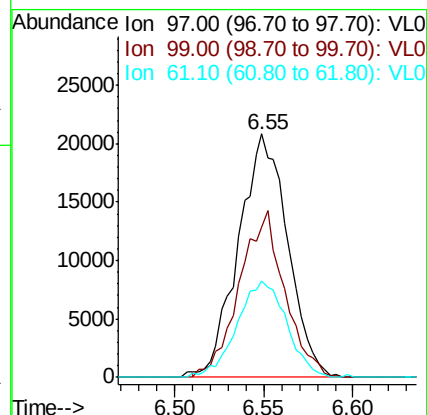
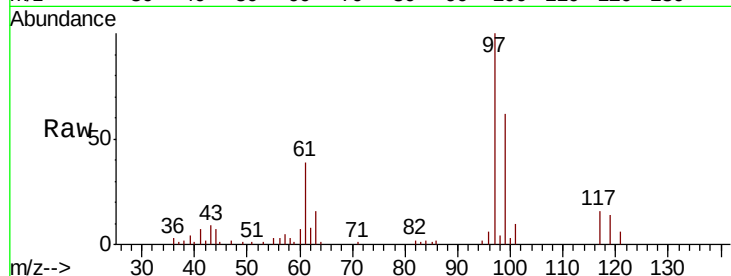
Tot Ion: 97 Resp: 39880

Ion Ratio Lower Upper

97 100

99 63.3 53.3 79.9

61 40.1 30.6 46.0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

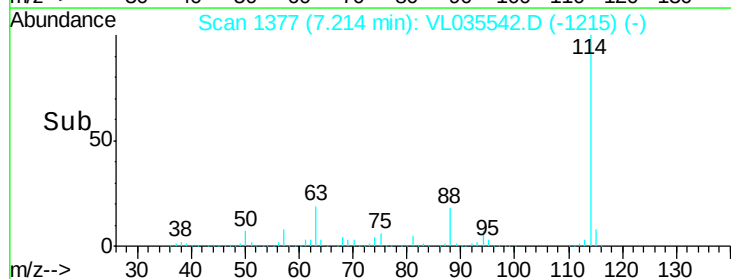
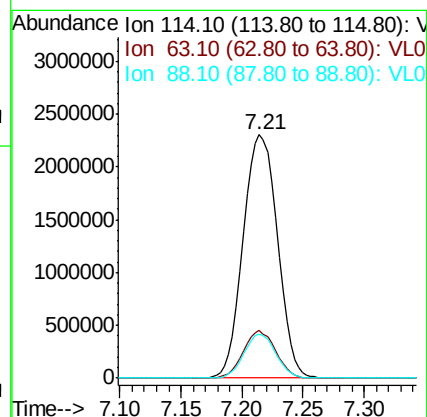
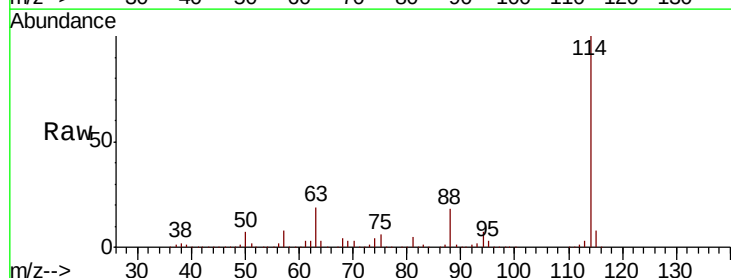
Tgt Ion: 114 Resp: 4478263

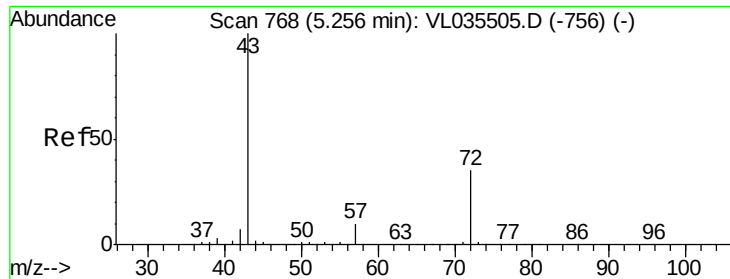
Ion Ratio Lower Upper

114 100

63 18.4 14.7 22.1

88 16.8 13.4 20.2

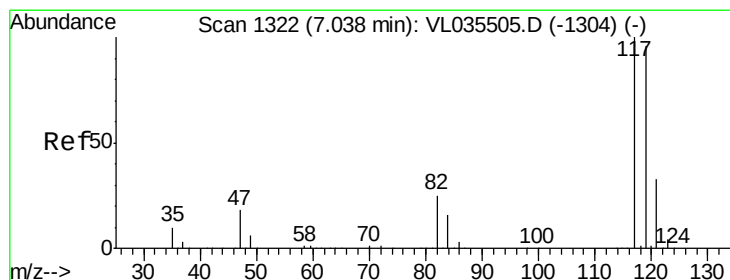
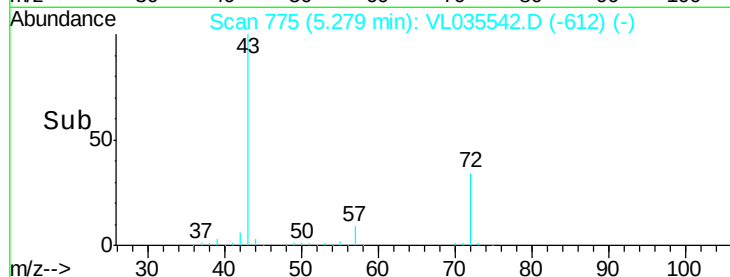
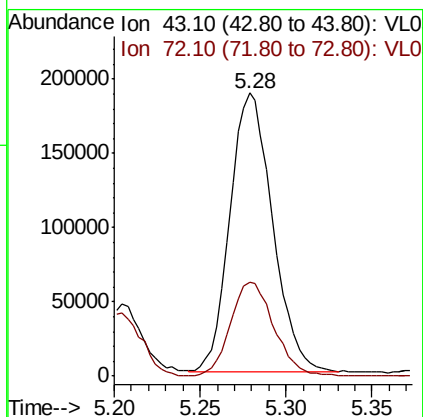
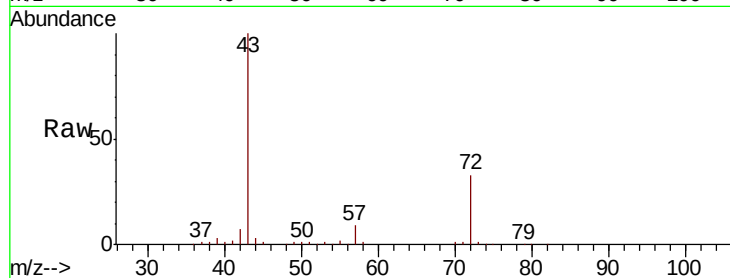




#34
2-Butanone
Concen: 2.443 ppbv
RT: 5.28 min Scan# 775
Delta R.T. 0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

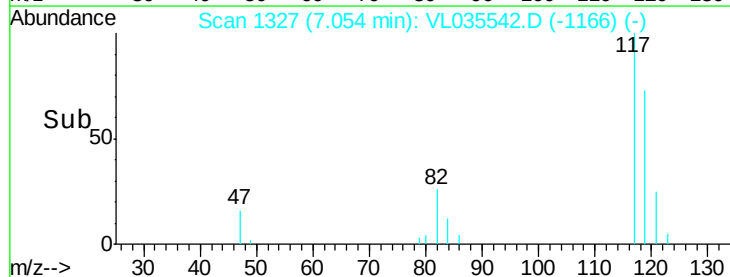
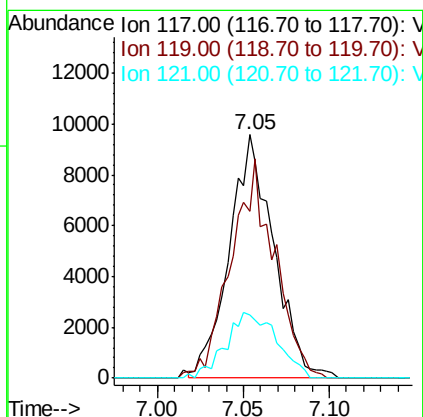
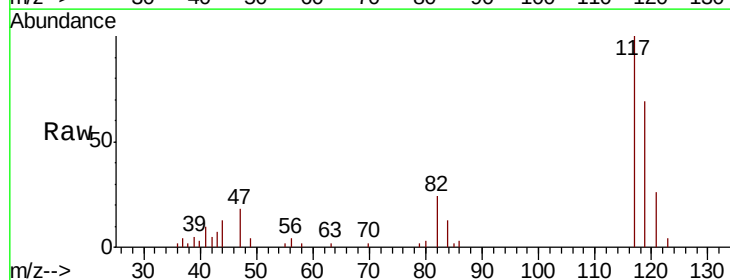
Instrument :
MSVOA_L
ClientSampleId :
IA-5

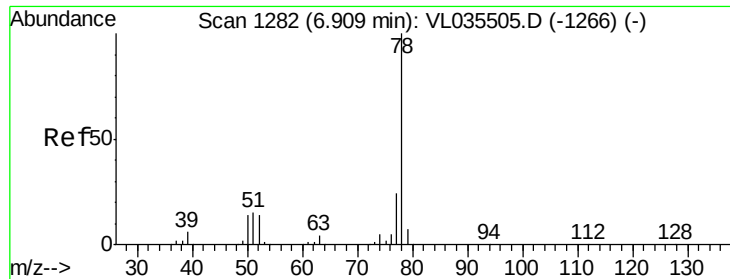
Tot Ion: 43 Resp: 324732
Ion Ratio Lower Upper
43 100
72 34.2 27.7 41.5



#35
Carbon Tetrachloride
Concen: 0.077 ppbv
RT: 7.05 min Scan# 1327
Delta R.T. 0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion: 117 Resp: 17238
Ion Ratio Lower Upper
117 100
119 68.6 77.2 115.8#
121 26.1 26.1 39.1#





#36

Benzene

Concen: 0.546 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

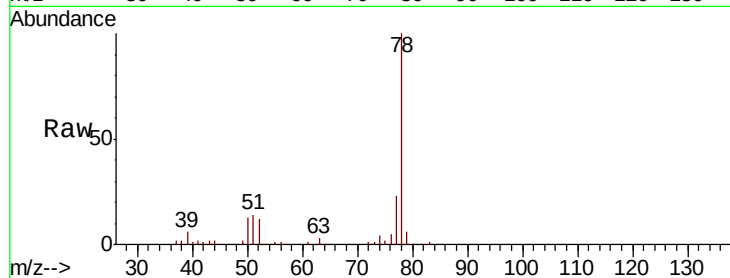
Tot Ion: 78 Resp: 158146

Ion Ratio Lower Upper

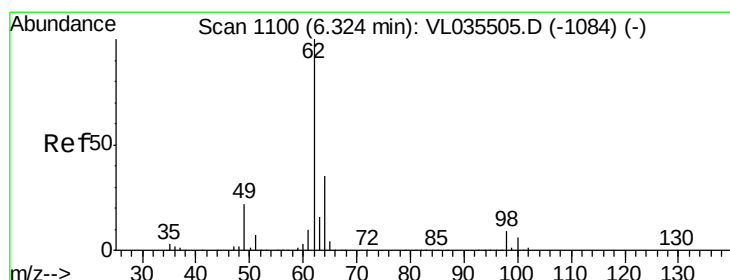
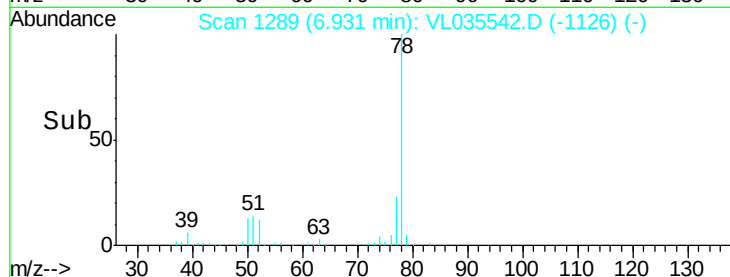
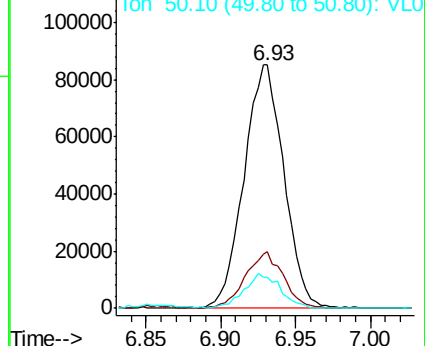
78 100

77 23.2 19.3 28.9

50 12.7 11.0 16.6



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.143 ppbv

RT: 6.34 min Scan# 1106

Delta R.T. 0.02 min

Lab File: VL035542.D

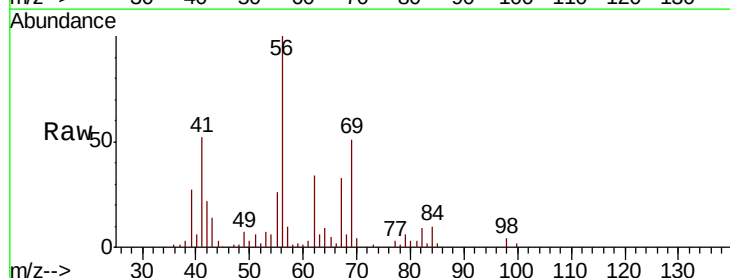
Acq: 3 Sep 2020 22:32

Tgt Ion: 62 Resp: 19727

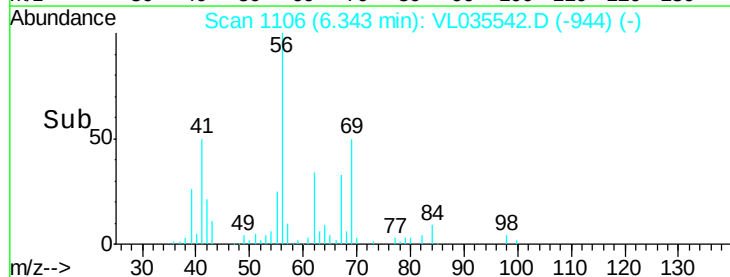
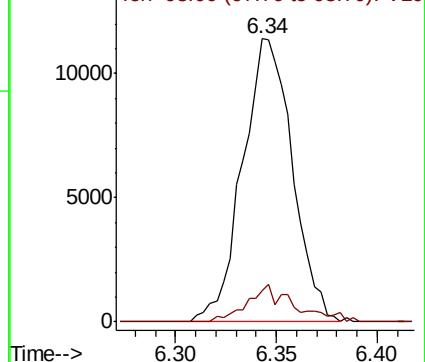
Ion Ratio Lower Upper

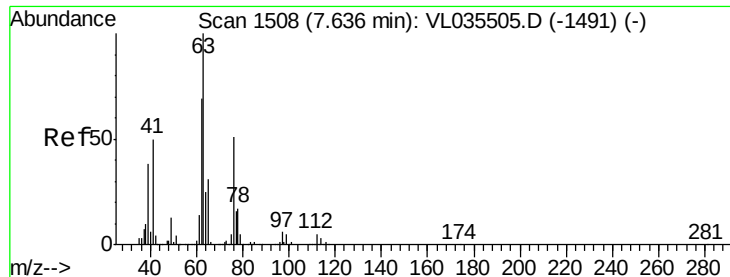
62 100

98 12.3 7.4 11.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 8.368 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.42 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

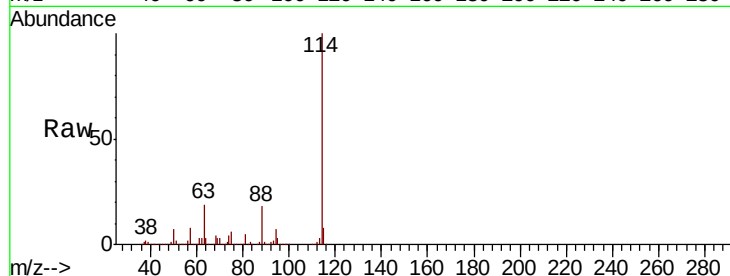
Tot Ion: 63 Resp: 819401

Ion Ratio Lower Upper

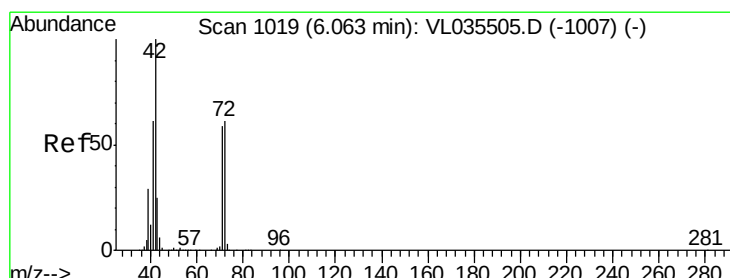
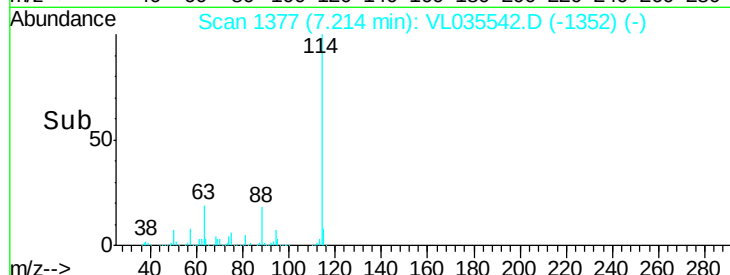
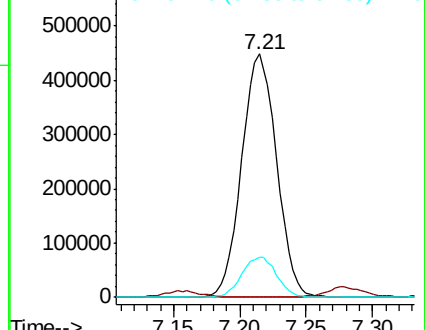
63 100

41 0.0 40.0 60.0#

62 16.4 55.4 83.0#



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



#41

Tetrahydrofuran

Concen: 0.231 ppbv

RT: 6.09 min Scan# 1026

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

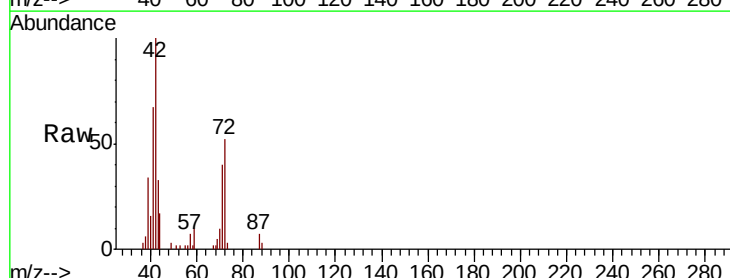
Tgt Ion: 42 Resp: 16277

Ion Ratio Lower Upper

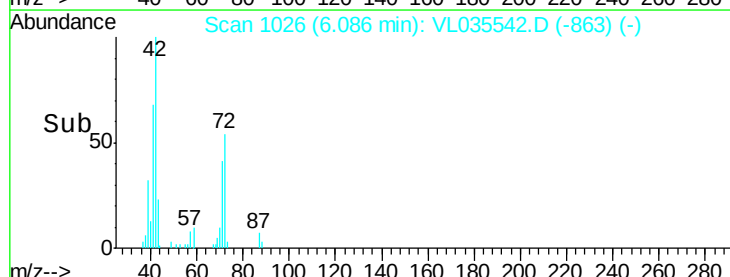
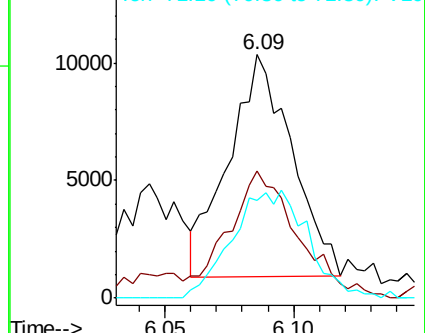
42 100

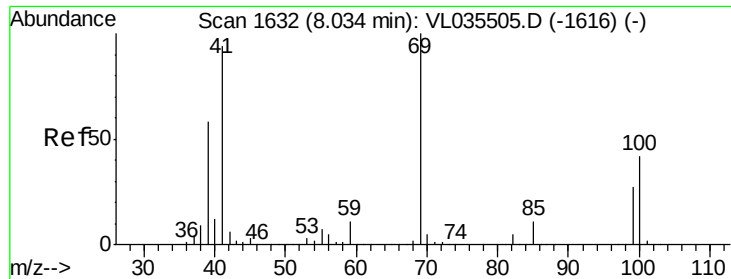
72 73.5 48.6 73.0#

71 57.5 46.1 69.1



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0

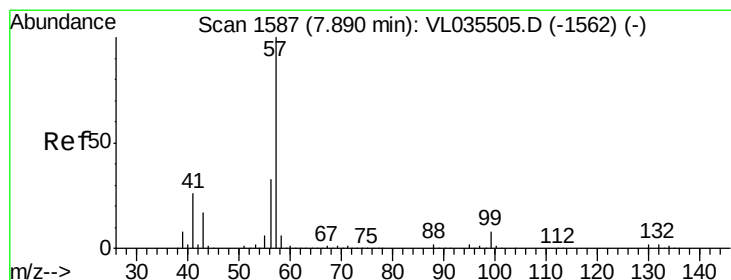
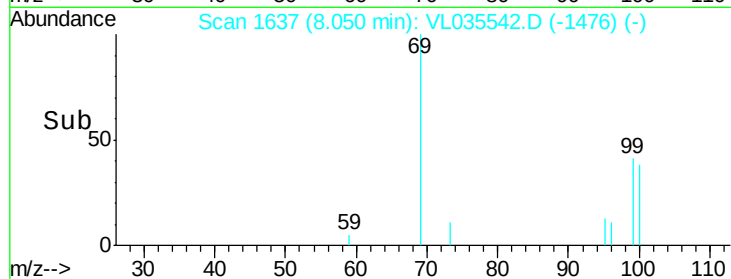
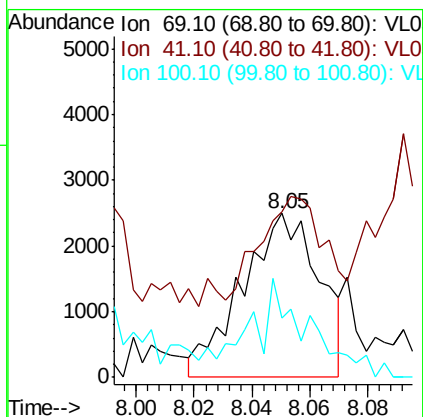
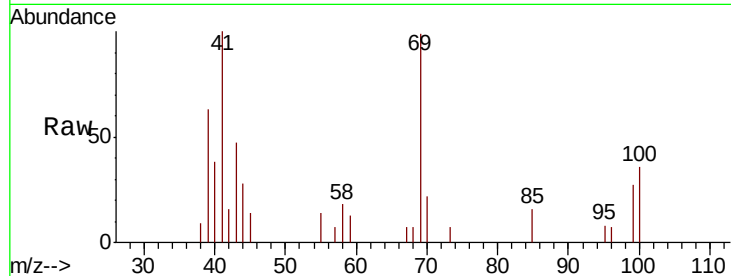




#43
Methyl Methacrylate
Concen: 0.041 ppbv
RT: 8.05 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

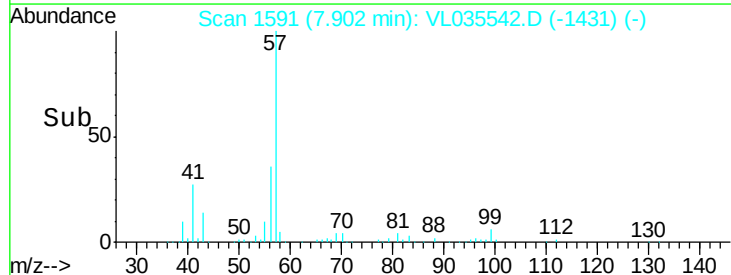
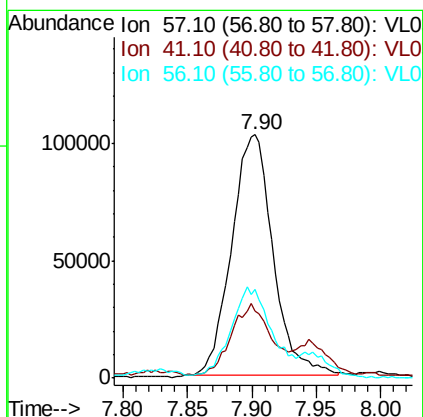
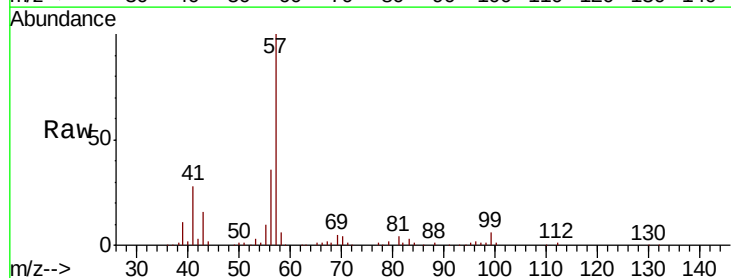
Instrument :
MSVOA_L
ClientSampleId :
IA-5

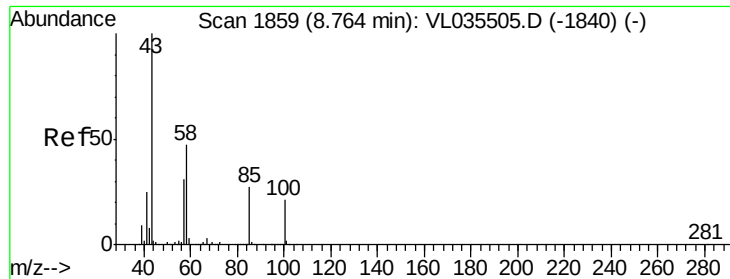
Tot Ion: 69 Resp: 4600
Ion Ratio Lower Upper
69 100
41 138.9 76.6 114.8#
100 54.3 33.8 50.6#



#44
2,2,4-Trimethylpentane
Concen: 0.600 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. 0.01 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion: 57 Resp: 229007
Ion Ratio Lower Upper
57 100
41 29.7 20.5 30.7
56 44.4 25.3 37.9#

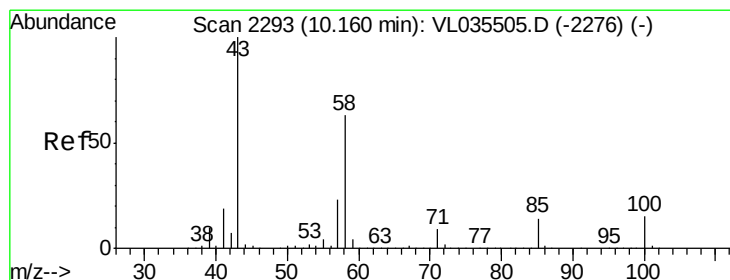
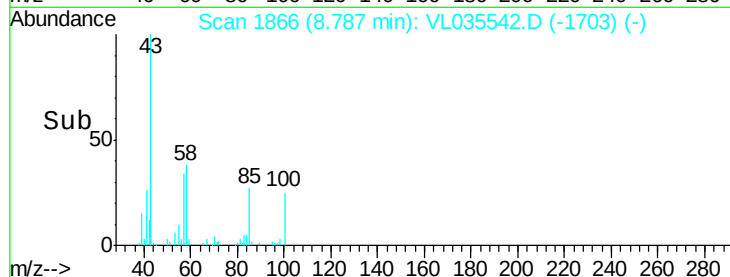
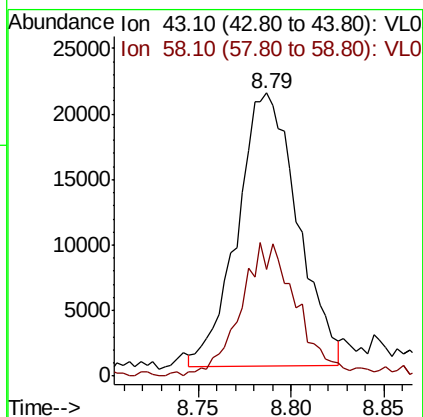
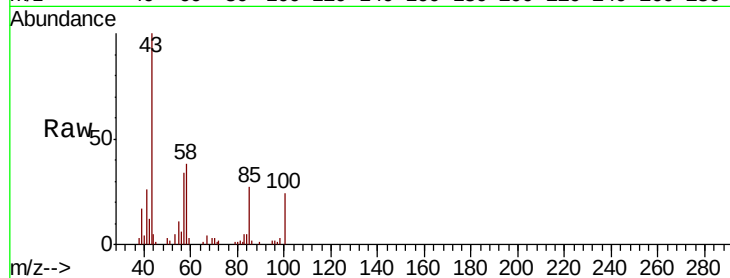




#50
4-Methyl-2-Pentanone
Concen: 0.245 ppbv
RT: 8.79 min Scan# 1866
Delta R.T. 0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

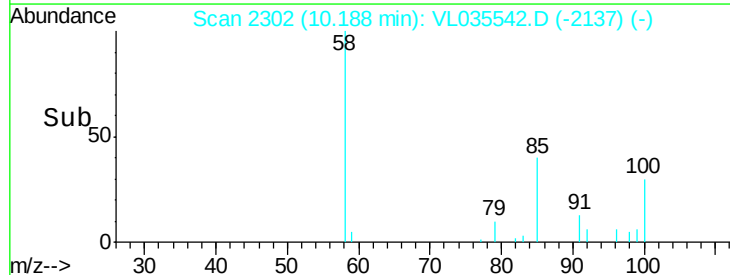
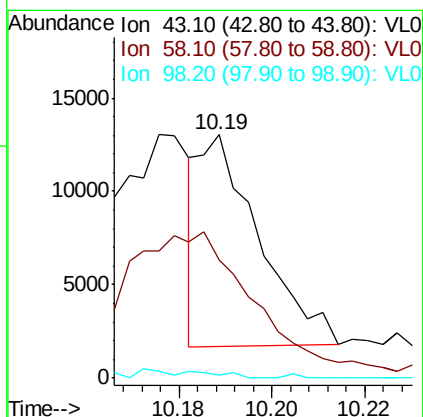
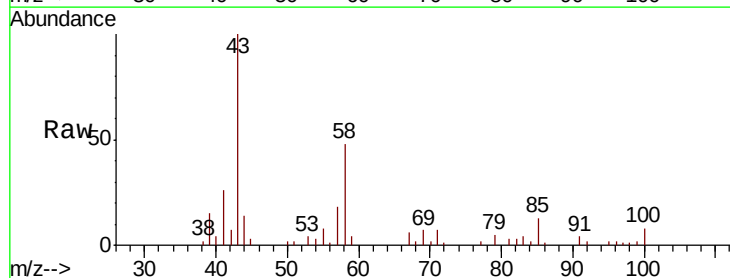
Instrument :
MSVOA_L
ClientSampleId :
IA-5

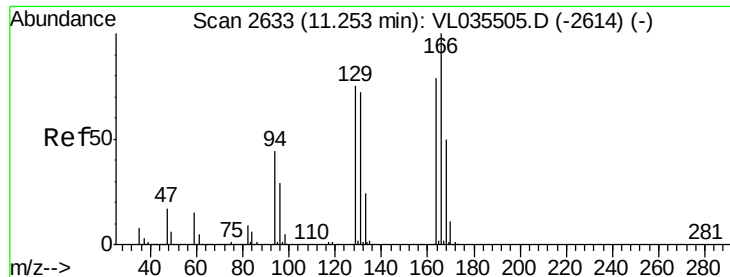
Tot Ion: 43 Resp: 47160
Ion Ratio Lower Upper
43 100
58 47.0 37.4 56.0



#51
2-Hexanone
Concen: 0.064 ppbv
RT: 10.19 min Scan# 2302
Delta R.T. 0.03 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion: 43 Resp: 10098
Ion Ratio Lower Upper
43 100
58 155.4 50.2 75.4#
98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.140 ppbv

RT: 11.26 min Scan# 2636

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion:164 Resp: 23642

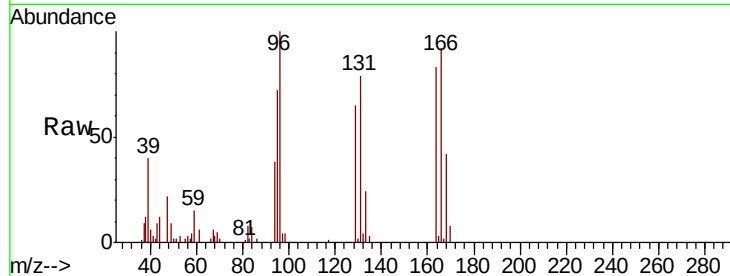
Ion Ratio Lower Upper

164 100

166 108.3 100.9 151.3

129 78.3 75.3 112.9

131 94.5 73.0 109.4

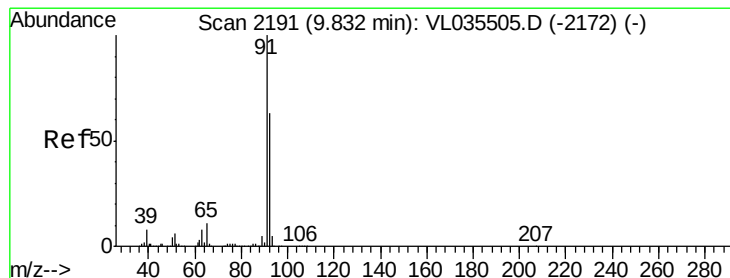
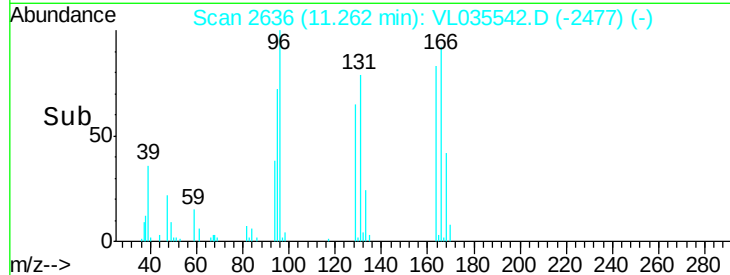
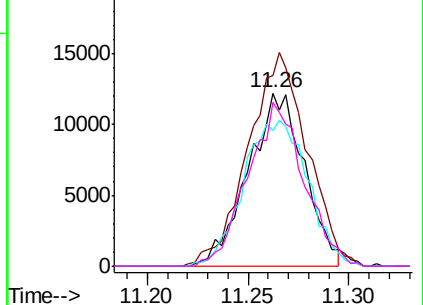


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 7.437 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. 0.01 min

Lab File: VL035542.D

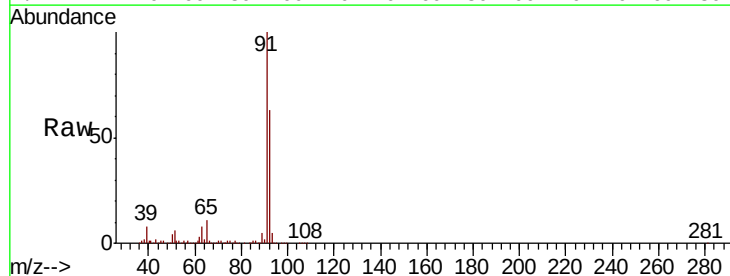
Acq: 3 Sep 2020 22:32

Tgt Ion: 91 Resp: 2710932

Ion Ratio Lower Upper

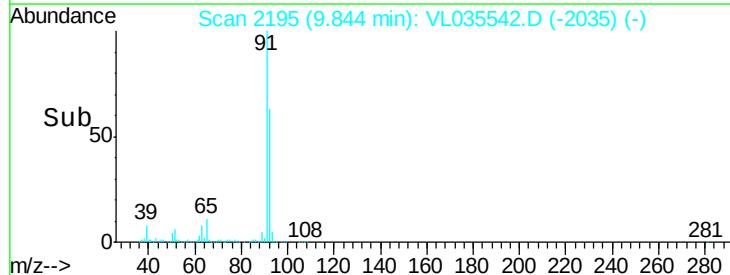
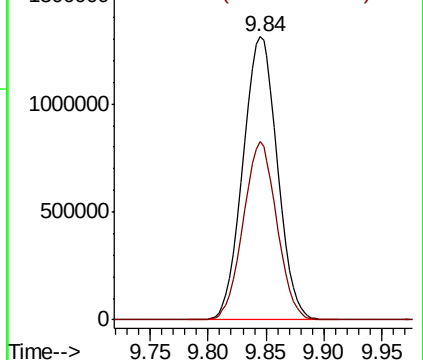
91 100

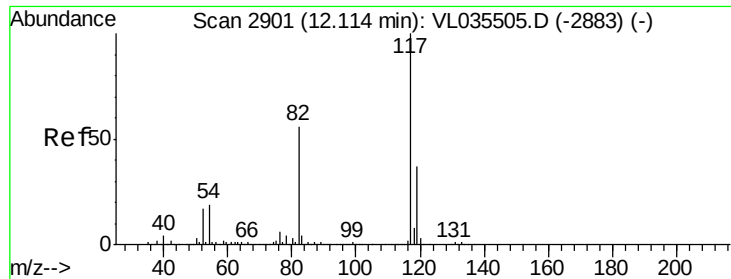
92 61.5 49.8 74.8



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: 12.13 min Scan# 2905

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampled :

IA-5

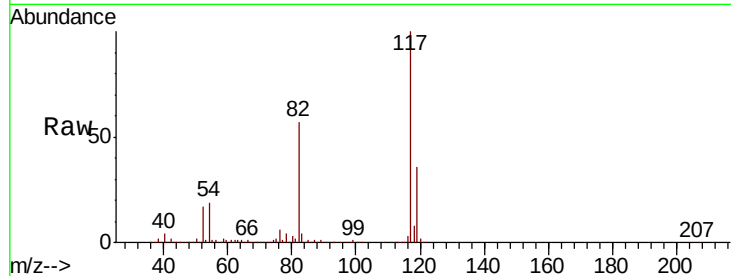
Tot Ion:117 Resp: 4469346

Ion Ratio Lower Upper

117 100

82 55.1 41.6 62.4

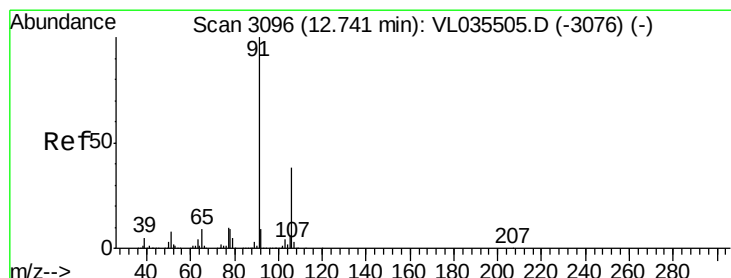
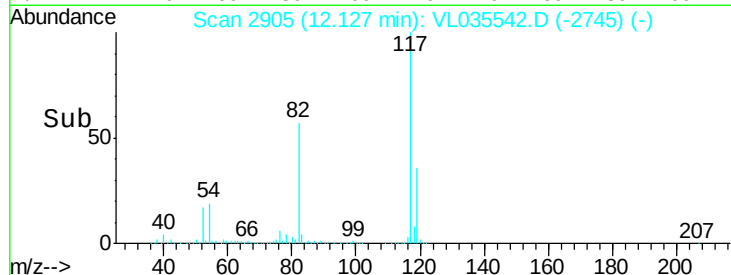
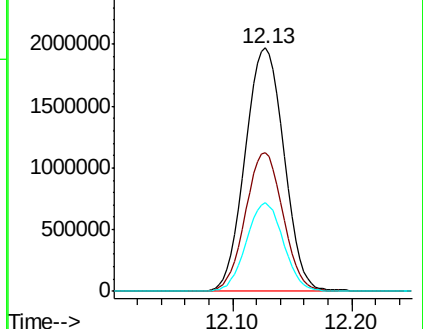
119 34.8 29.3 43.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.564 ppbv

RT: 12.75 min Scan# 3100

Delta R.T. 0.01 min

Lab File: VL035542.D

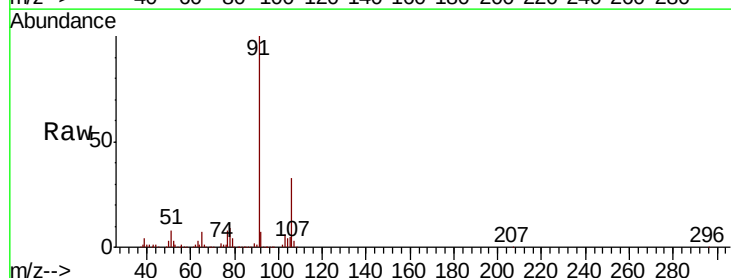
Acq: 3 Sep 2020 22:32

Tgt Ion: 91 Resp: 259954

Ion Ratio Lower Upper

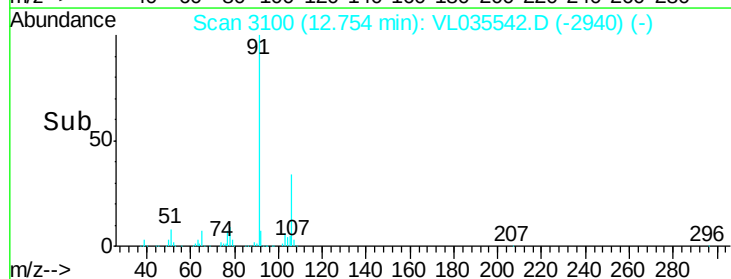
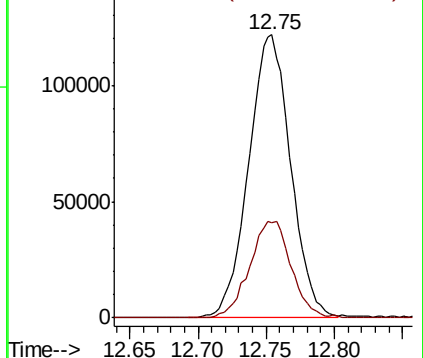
91 100

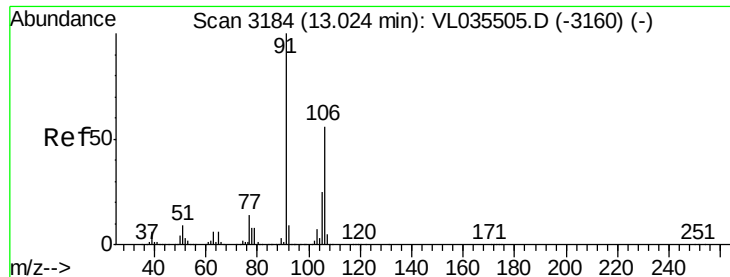
106 33.5 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

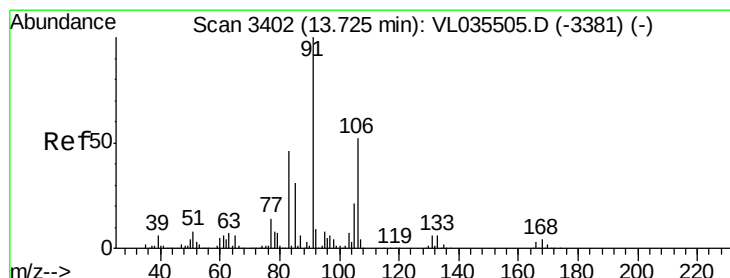
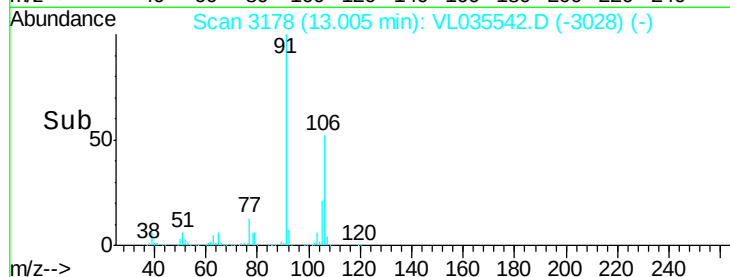
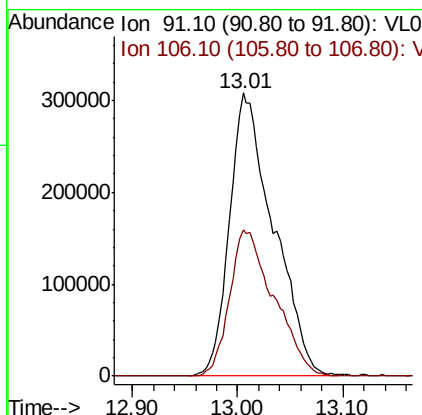
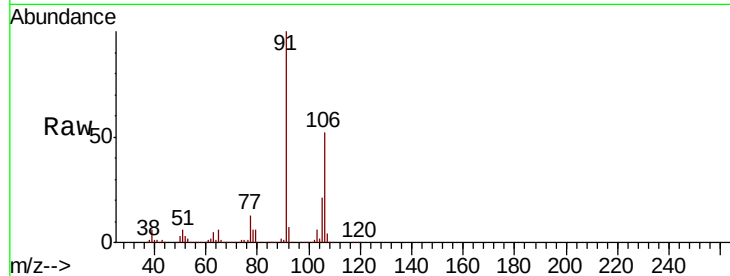




#59
m/p-Xylene
Concen: 2.305 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

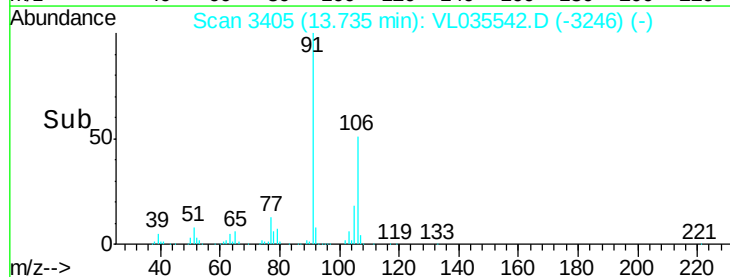
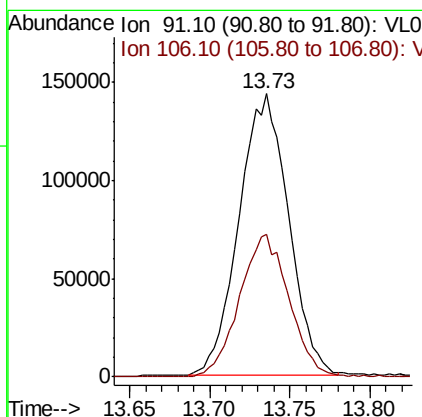
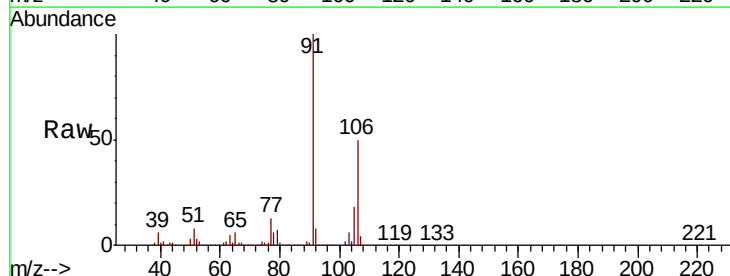
Instrument :
MSVOA_L
ClientSampleId :
IA-5

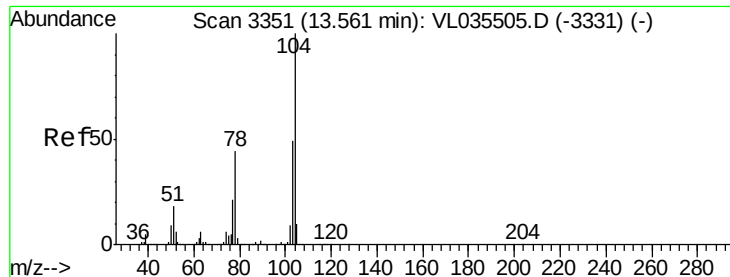
Tot Ion: 91 Resp: 887775
Ion Ratio Lower Upper
91 100
106 52.3 43.4 65.2



#60
o-Xylene
Concen: 0.781 ppbv
RT: 13.73 min Scan# 3405
Delta R.T. 0.01 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion: 91 Resp: 303014
Ion Ratio Lower Upper
91 100
106 50.7 25.8 77.4





#61

Stvrene

Concen: 0.071 ppbv

RT: 13.57 min Scan# 3354

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

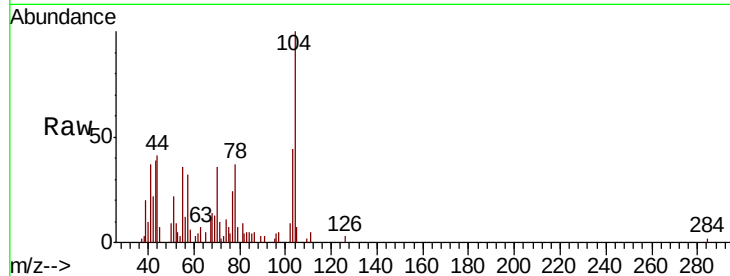
Tot Ion:104 Resp: 20933

Ion Ratio Lower Upper

104 100

78 50.4 34.8 52.2

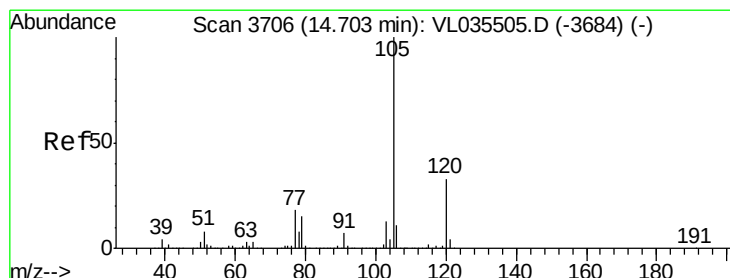
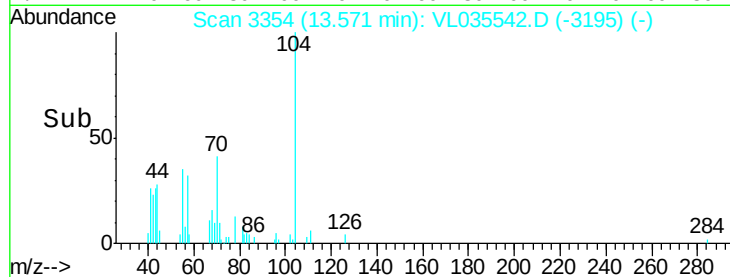
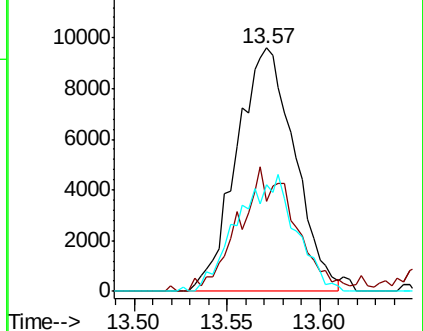
103 48.0 38.2 57.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.046 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. 0.01 min

Lab File: VL035542.D

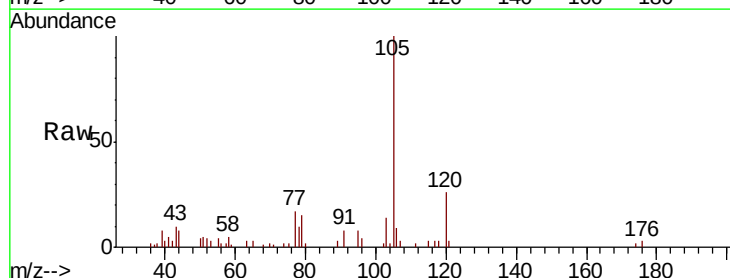
Acq: 3 Sep 2020 22:32

Tgt Ion:105 Resp: 28843

Ion Ratio Lower Upper

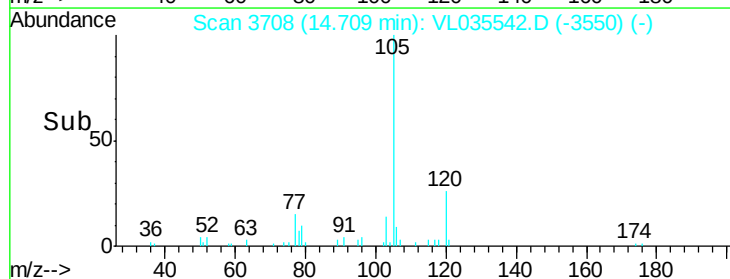
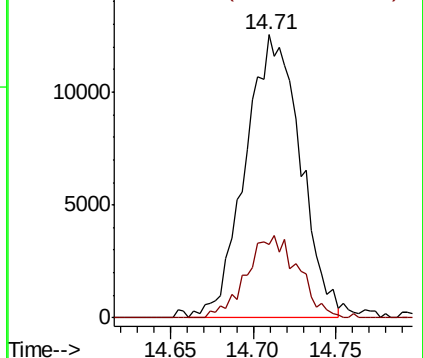
105 100

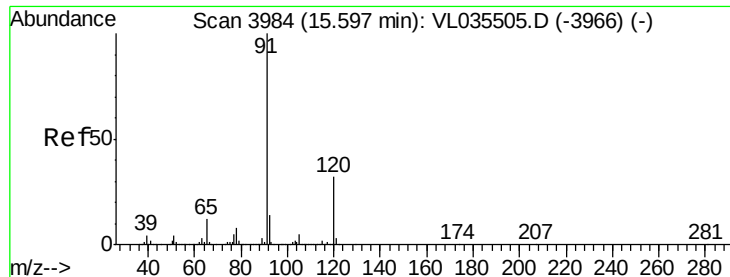
120 27.3 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.038 ppbv

RT: 15.61 min Scan# 3988

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

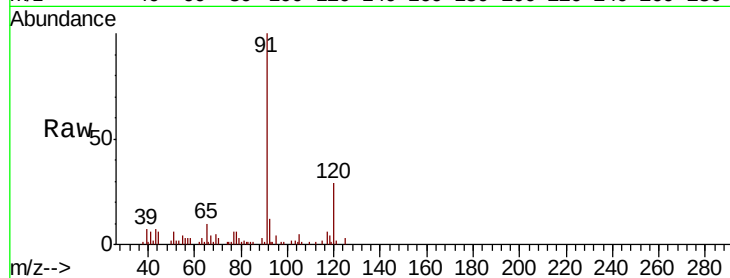
IA-5

Tot Ion:120 Resp: 7317

Ion Ratio Lower Upper

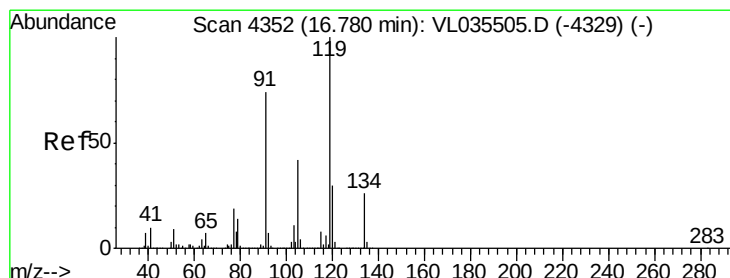
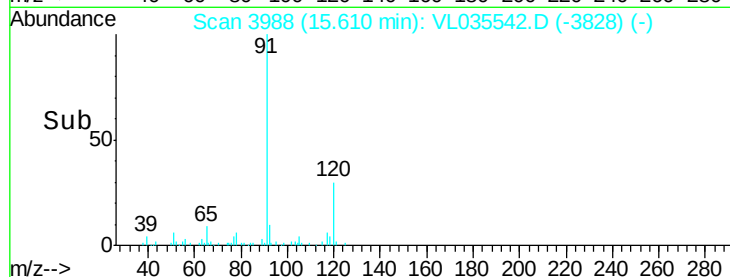
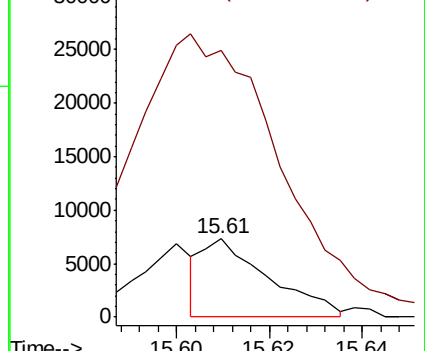
120 100

91 0.0 279.4 419.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.060 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.03 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

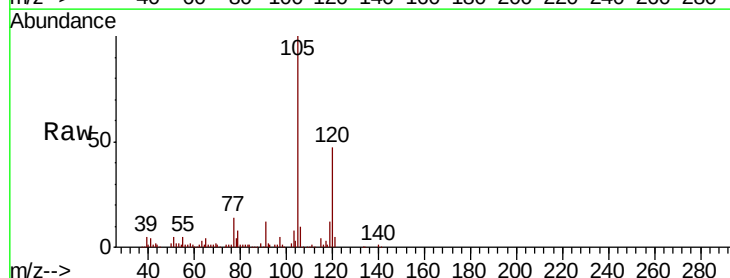
Tgt Ion:119 Resp: 34911

Ion Ratio Lower Upper

119 100

91 91.2 58.6 87.8#

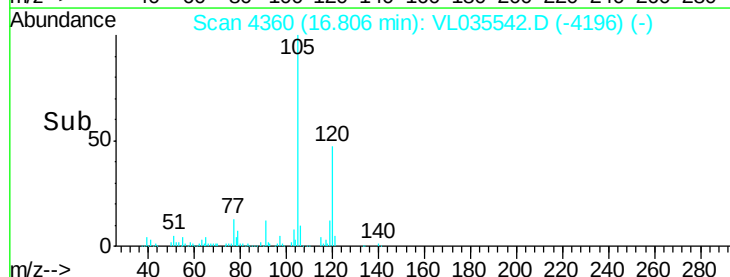
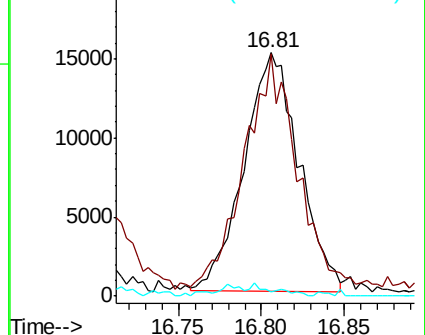
134 4.6 18.9 28.3#

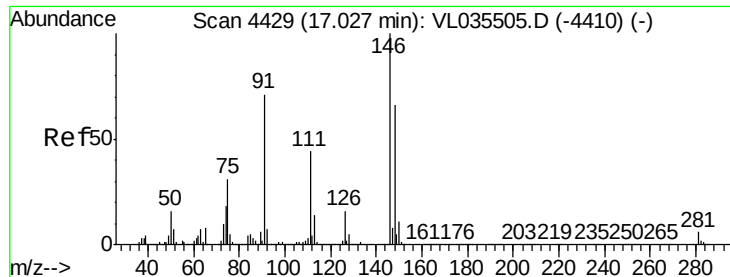


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

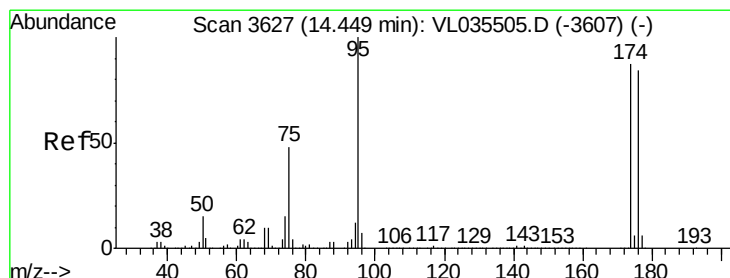
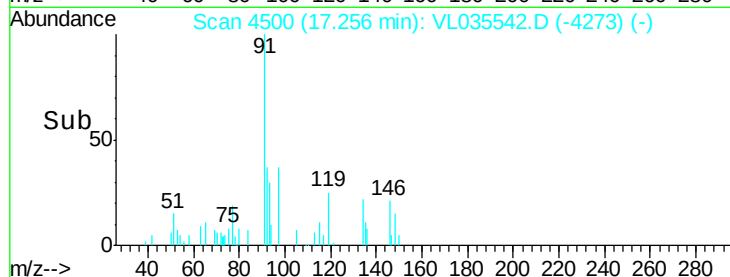
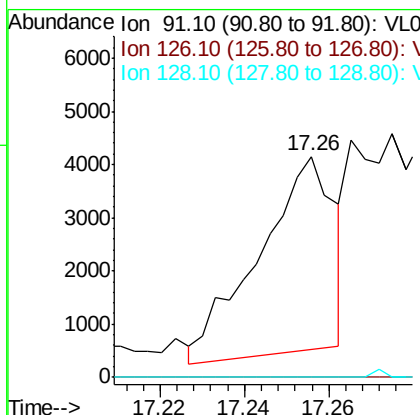
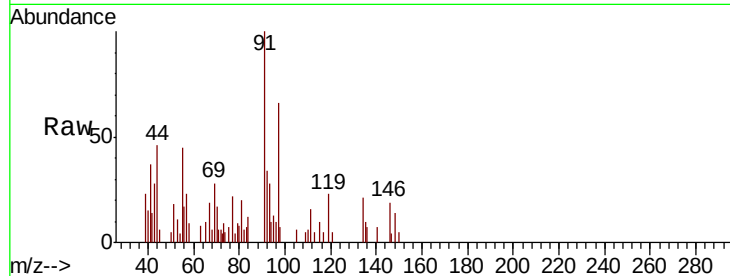




#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 17.26 min Scan# 4500
Delta R.T. 0.23 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

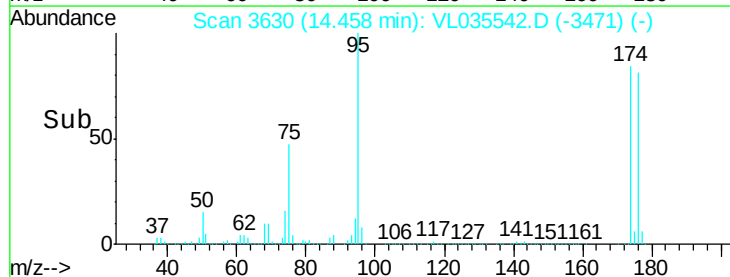
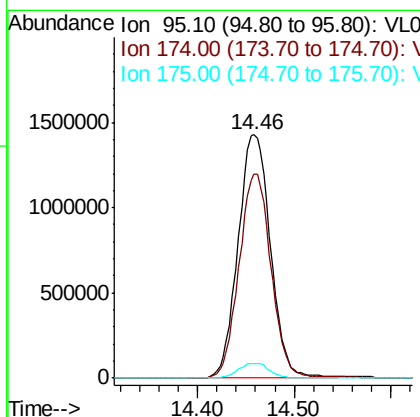
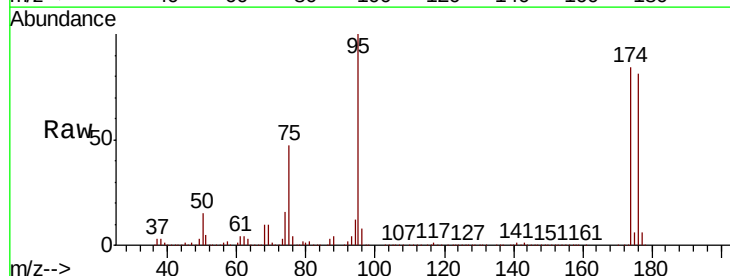
Instrument :
MSVOA_L
ClientSampled :
IA-5

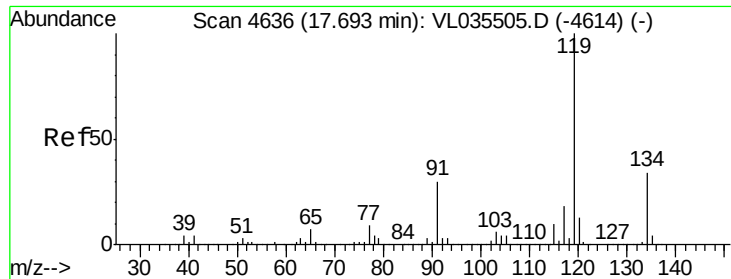
Tot Ion: 91 Resp: 4523
Ion Ratio Lower Upper
91 100
126 4.8 17.2 25.8#
128 0.0 5.5 8.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.477 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.01 min
Lab File: VL035542.D
Acq: 3 Sep 2020 22:32

Tgt Ion: 95 Resp: 3325340
Ion Ratio Lower Upper
95 100
174 83.6 69.6 104.4
175 6.0 5.1 7.7

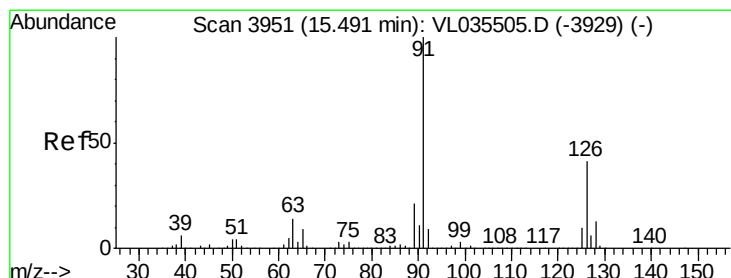
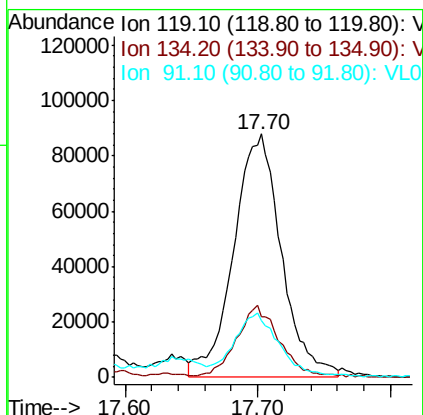
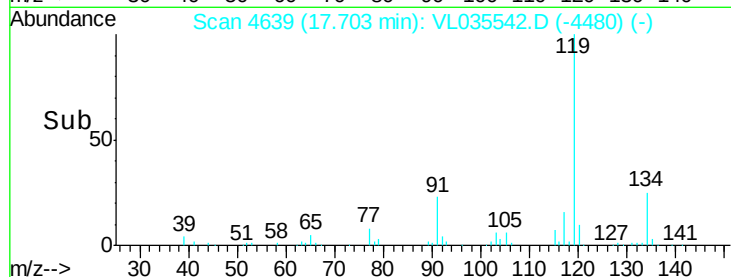
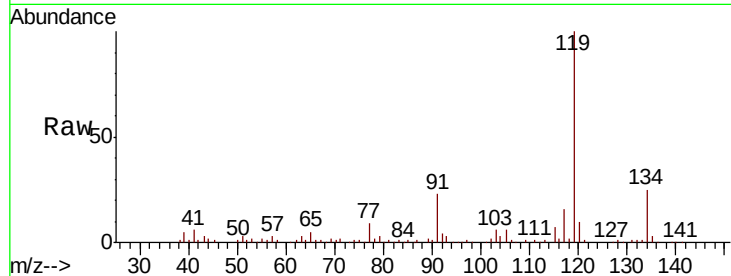




#69
 p-Isopropyltoluene
 Concen: 0.325 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. 0.01 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

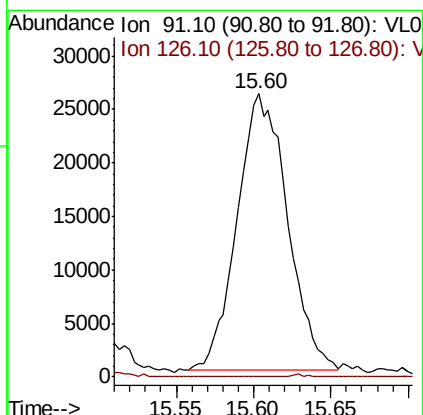
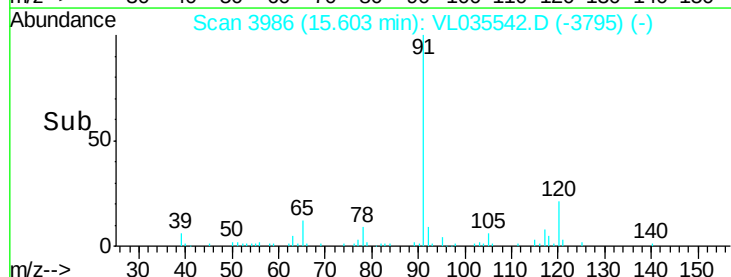
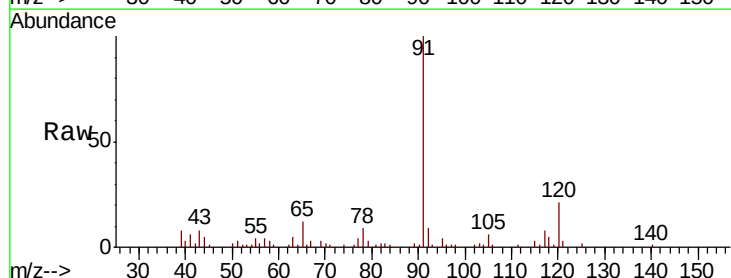
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

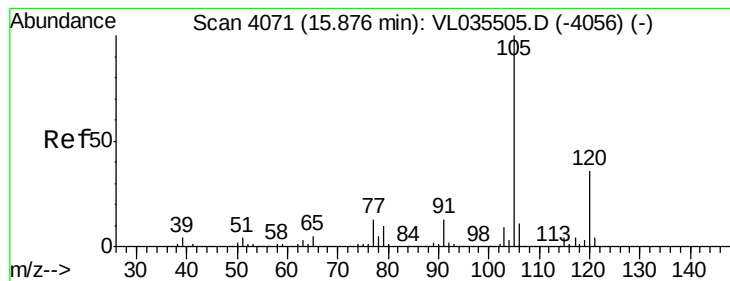
Tot Ion:119 Resp: 219948
 Ion Ratio Lower Upper
 119 100
 134 27.0 25.0 37.4
 91 25.8 22.3 33.5



#71
 2-Chlorotoluene
 Concen: 0.128 ppbv
 RT: 15.60 min Scan# 3986
 Delta R.T. 0.11 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

Tgt Ion: 91 Resp: 58253
 Ion Ratio Lower Upper
 91 100
 126 2.3 15.6 62.6#





#72

4-Ethyltoluene

Concen: 0.163 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

Tot Ion:105 Resp: 80489

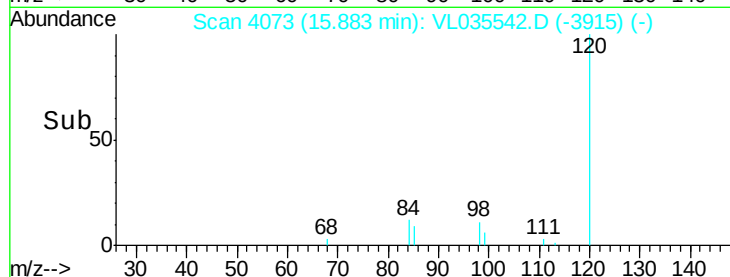
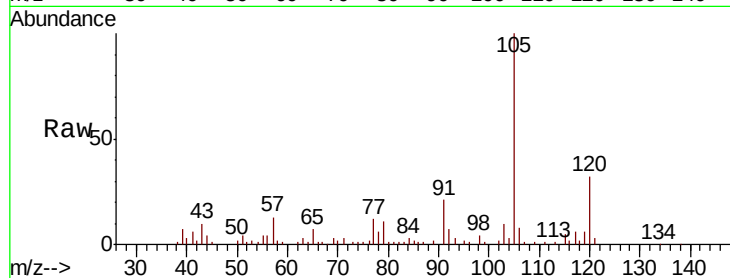
Ion Ratio Lower Upper

105 100

120 30.2 27.4 41.2

91 27.5 9.7 14.5#

77 13.2 9.6 14.4



Abundance Ion 105.10 (104.80 to 105.80): V

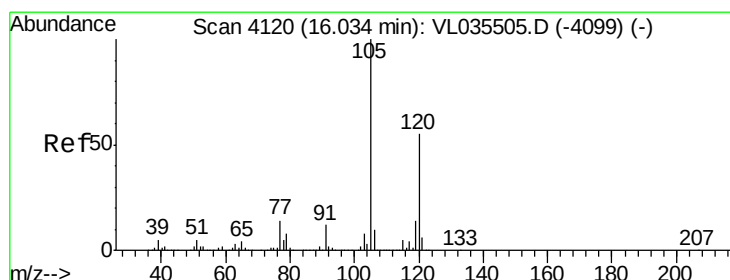
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Time-->

15.85 15.90 15.95



#73

1,3,5-Trimethylbenzene

Concen: 0.209 ppbv

RT: 16.04 min Scan# 4123

Delta R.T. 0.01 min

Lab File: VL035542.D

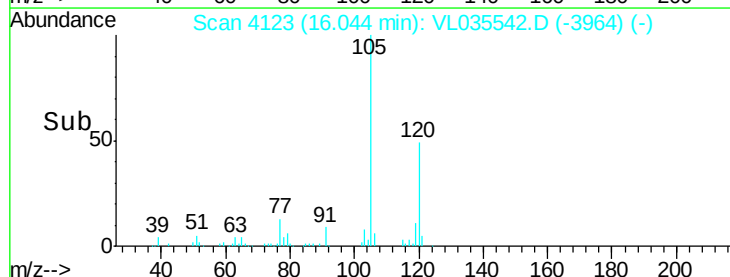
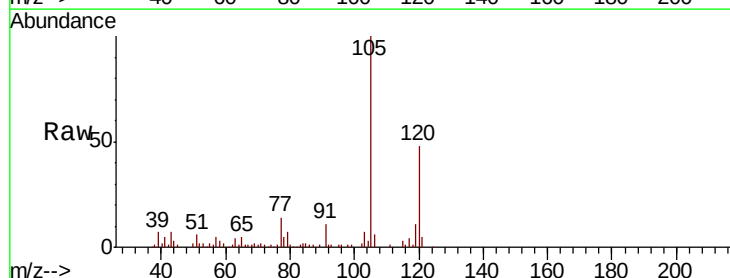
Acq: 3 Sep 2020 22:32

Tgt Ion:105 Resp: 95474

Ion Ratio Lower Upper

105 100

120 48.2 44.2 66.2

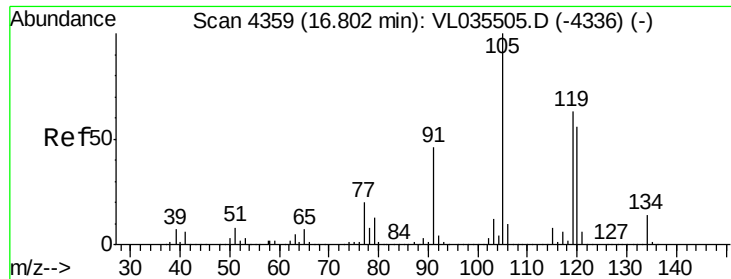


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Time-->

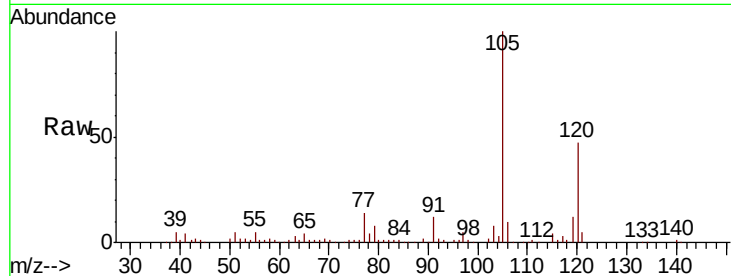
15.95 16.00 16.05 16.10



#74
 1,2,4-Trimethylbenzene
 Concen: 0.571 ppbv
 RT: 16.81 min Scan# 4360
 Delta R.T. 0.00 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5

Tot Ion:	105	Resp:	286096
Ion	Ratio	Lower	Upper
105	100		
120	46.6	44.4	66.6
91	11.5	37.1	55.7#
77	13.2	16.0	24.0#



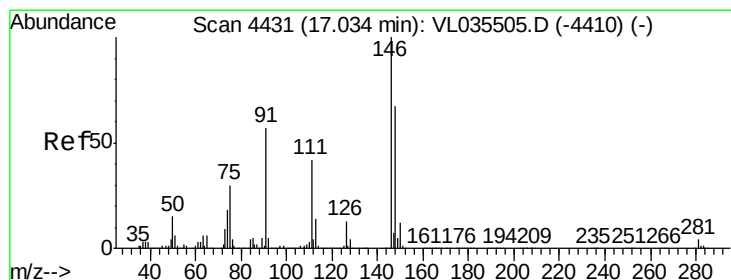
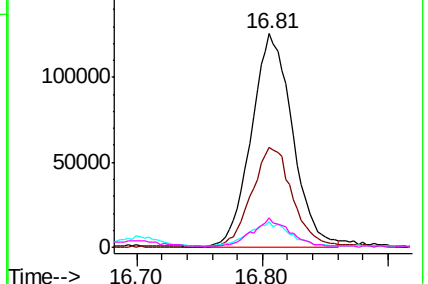
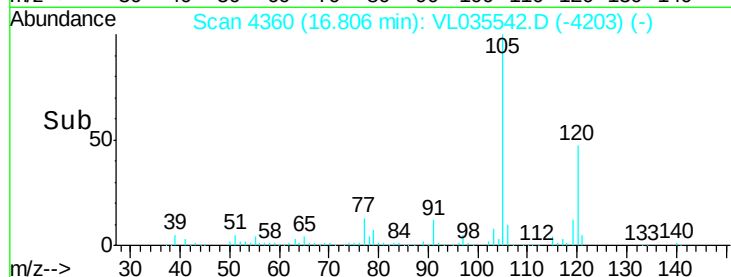
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

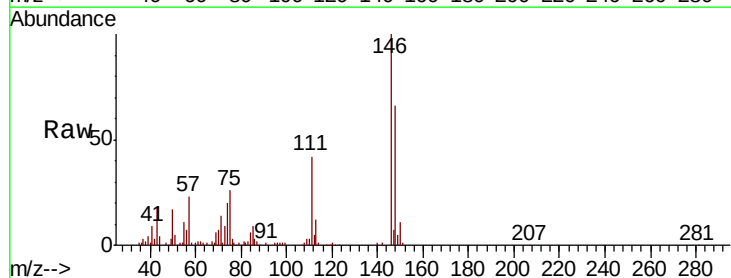
Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75
 1,3-Dichlorobenzene
 Concen: 0.365 ppbv
 RT: 17.18 min Scan# 4477
 Delta R.T. 0.15 min
 Lab File: VL035542.D
 Acq: 3 Sep 2020 22:32

Tgt Ion:	146	Resp:	135331
Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.7	62.1
148	63.2	33.0	98.9

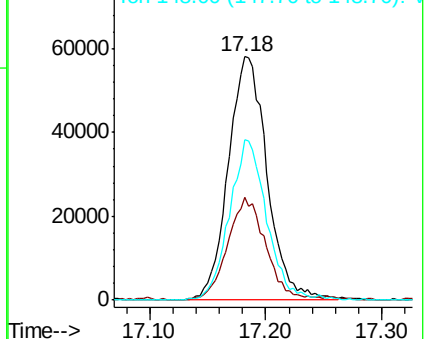
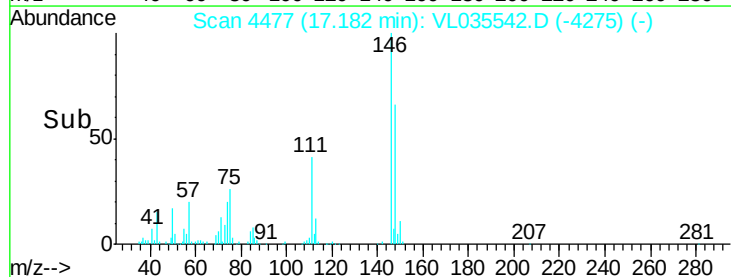


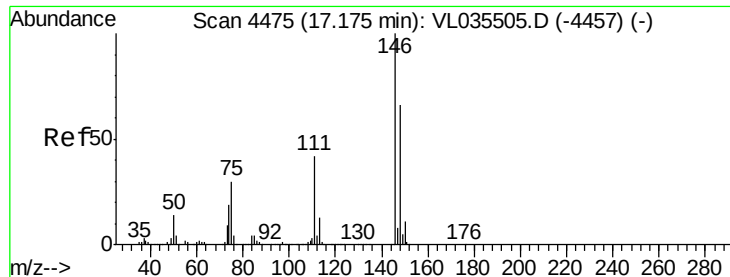
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.370 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

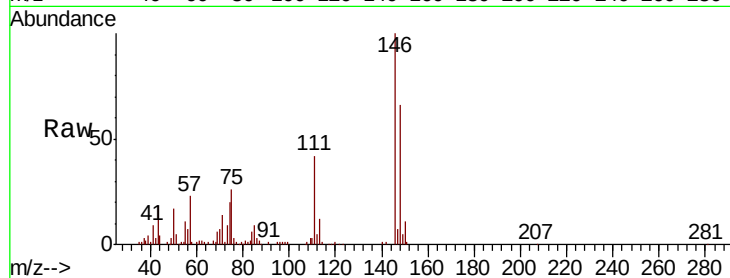
Tot Ion:146 Resp: 135331

Ion Ratio Lower Upper

146 100

111 42.2 20.0 60.0

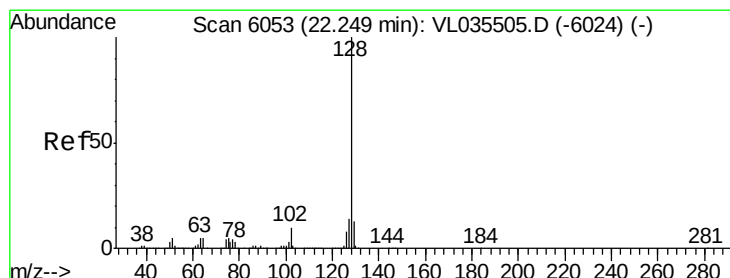
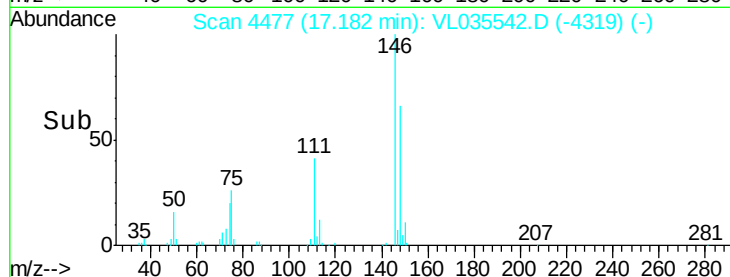
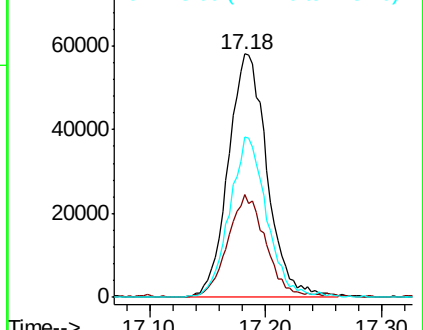
148 63.3 33.2 99.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.528 ppbv

RT: 22.27 min Scan# 6058

Delta R.T. 0.02 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

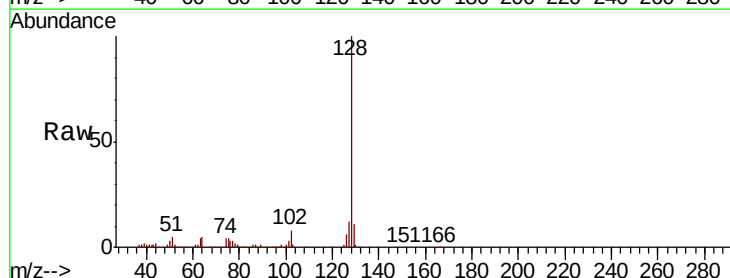
Tgt Ion:128 Resp: 293541

Ion Ratio Lower Upper

128 100

127 12.2 11.4 17.2

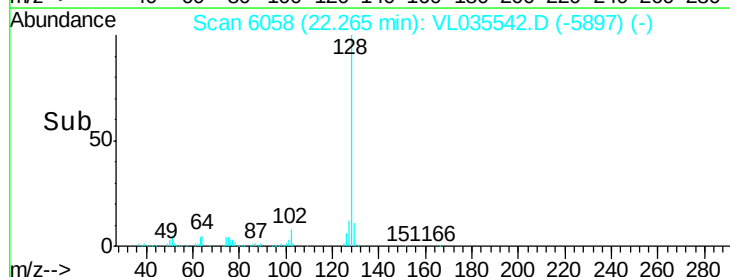
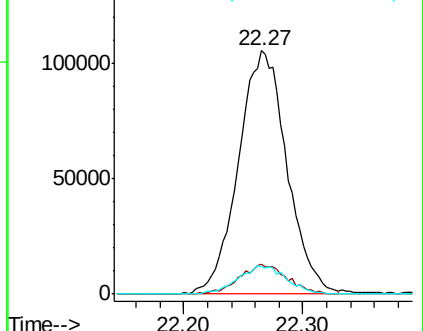
129 11.5 10.5 15.7

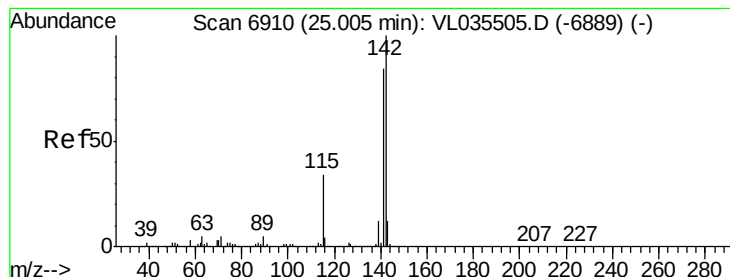


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.040 ppbv

RT: 25.01 min Scan# 6913

Delta R.T. 0.01 min

Lab File: VL035542.D

Acq: 3 Sep 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

IA-5

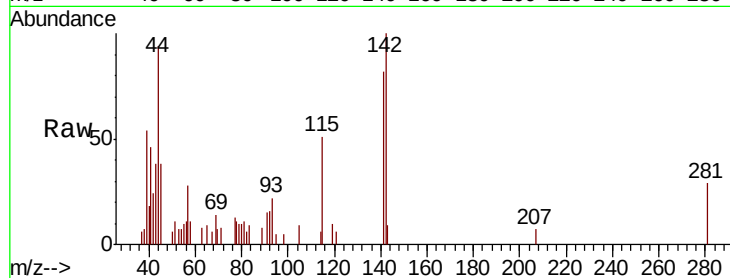
Tot Ion:142 Resp: 7501

Ion Ratio Lower Upper

142 100

141 94.6 67.6 101.4

115 43.4 25.8 38.8#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

