

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035543.D
 Acq On : 3 Sep 2020 23:10
 Operator : SY/AP
 Sample : L3898-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL

Quant Time: Sep 04 06:48:56 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	5.69	49	1058344	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4435558	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4439176	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3217713	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

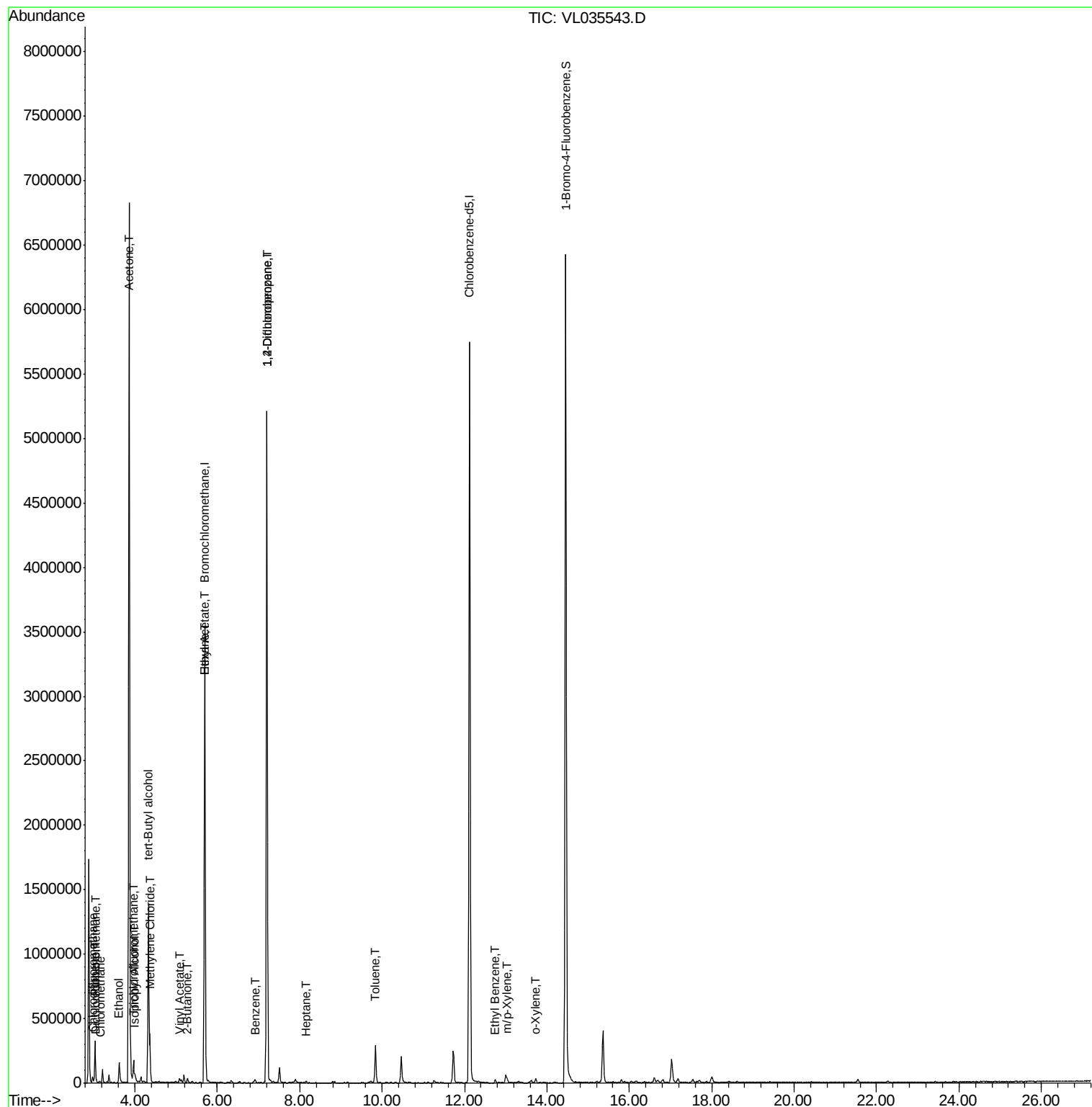
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	14579	0.079 ppbv	91
3) Chlorodifluoromethane	2.97	51	39324	0.336 ppbv #	67
4) Chloromethane	3.15	50	5266	0.084 ppbv #	87
9) Propene	3.03	41	66646	1.477 ppbv #	67
10) Heptane	8.15	43	3961	0.033 ppbv	94
11) Trichlorofluoromethane	3.97	101	101750	0.380 ppbv	91
13) Ethanol	3.62	45	164029	14.661 ppbv	97
15) Acetone	3.86	43	6596462	56.513 ppbv #	85
17) tert-Butyl alcohol	4.32	59	156649	1.103 ppbv #	79
19) Isopropyl Alcohol	3.99	45	72118	1.036 ppbv #	93
20) Methylene Chloride	4.36	84	155498	1.789 ppbv	98
23) Vinyl Acetate	5.09	43	23605	0.158 ppbv #	81
25) Ethyl Acetate	5.71	43	52516	0.255 ppbv #	82
26) Hexane	5.71	57	76244	0.653 ppbv #	55
34) 2-Butanone	5.28	43	34576	0.263 ppbv	95
36) Benzene	6.92	78	17047	0.059 ppbv #	94
39) 1,2-Dichloropropane	7.20	63	807535	8.326 ppbv #	32
53) Toluene	9.84	91	245015	0.679 ppbv	95
58) Ethyl Benzene	12.75	91	21590	0.047 ppbv	89
59) m/p-Xylene	13.03	91	12920	0.034 ppbv #	24
60) o-Xylene	13.73	91	24824	0.064 ppbv	91

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

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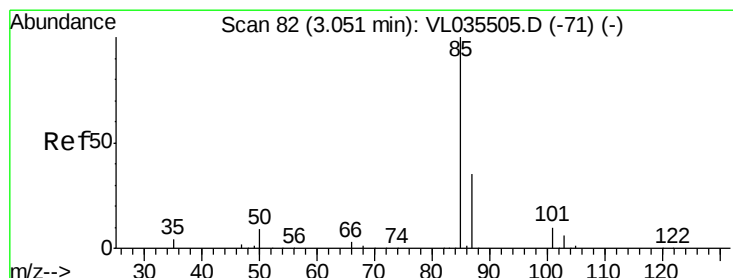
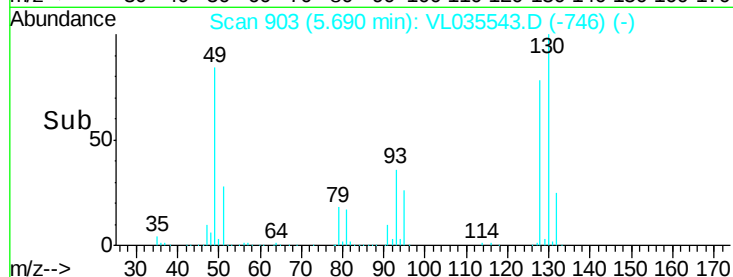
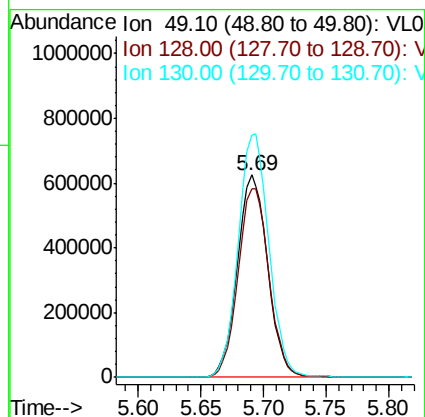
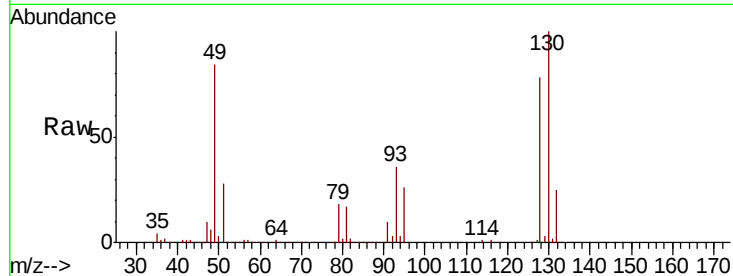




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

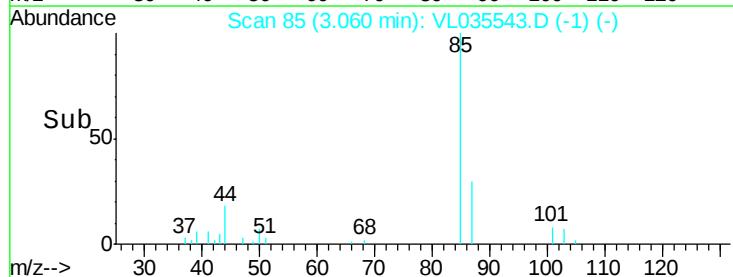
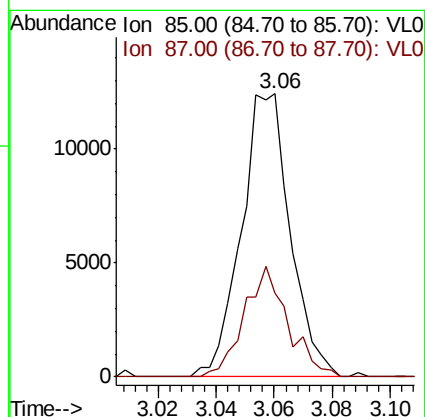
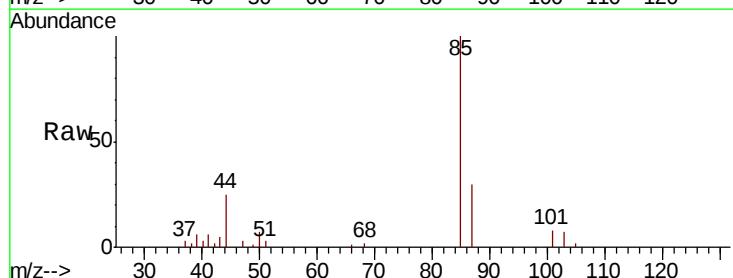
Instrument :
MSVOA_L
ClientSampleId :
IA-5DL

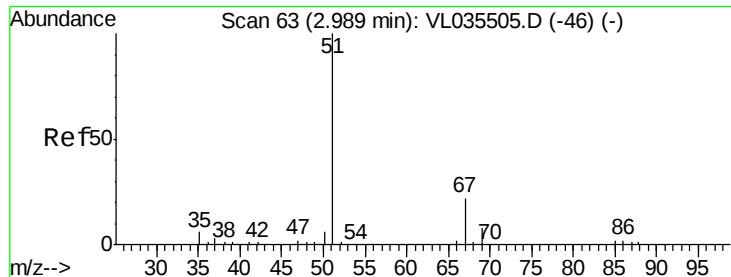
Tot Ion: 49 Resp: 1058344
Ion Ratio Lower Upper
49 100
128 94.8 50.0 150.1
130 121.8 64.4 193.2



#2
Dichlorodifluoromethane
Concen: 0.079 ppbv
RT: 3.06 min Scan# 85
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

Tgt Ion: 85 Resp: 14579
Ion Ratio Lower Upper
85 100
87 29.7 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.336 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

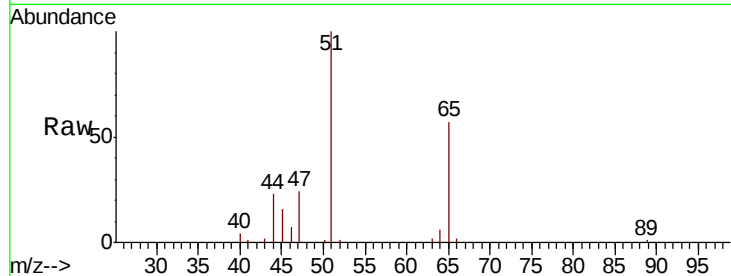
IA-5DL

Tot Ion: 51 Resp: 39324

Ion Ratio Lower Upper

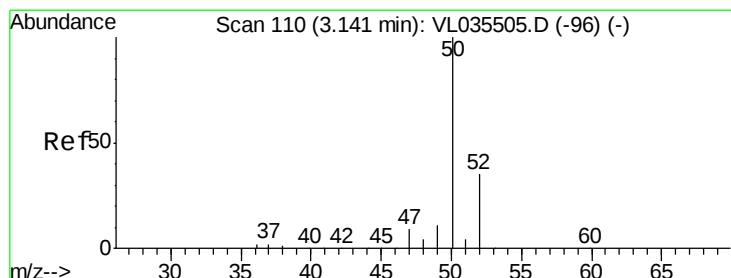
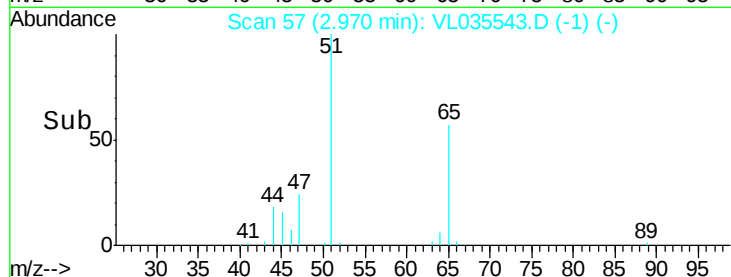
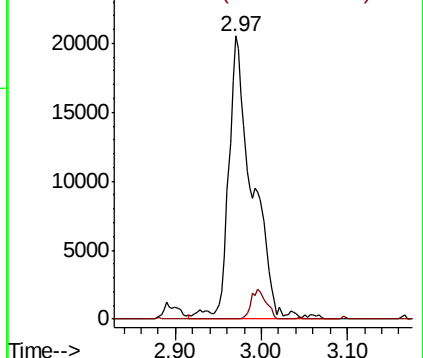
51 100

67 6.7 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.084 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL035543.D

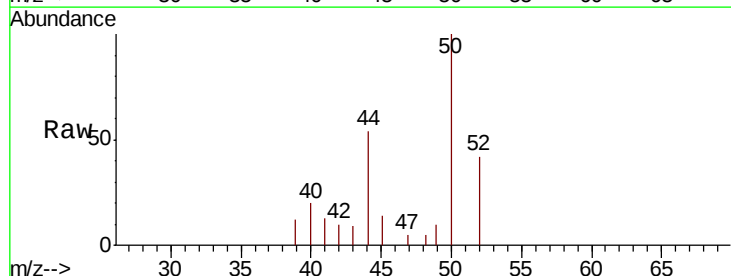
Acq: 3 Sep 2020 23:10

Tgt Ion: 50 Resp: 5266

Ion Ratio Lower Upper

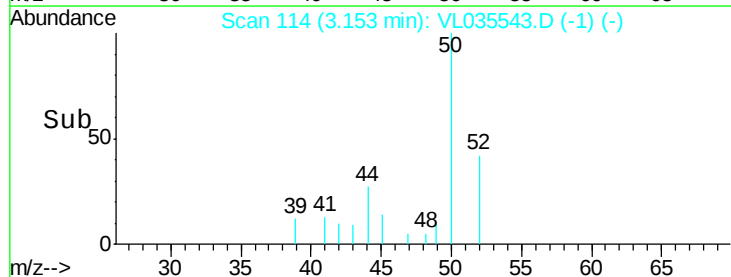
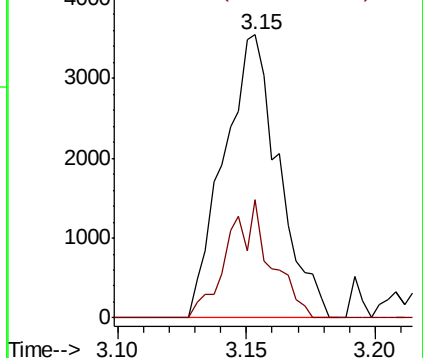
50 100

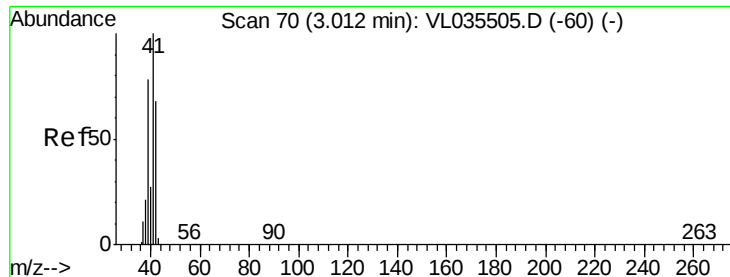
52 41.8 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.477 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

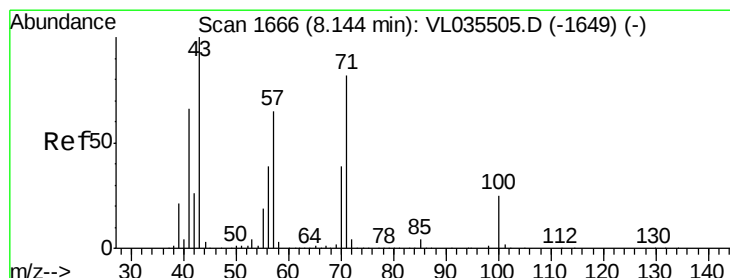
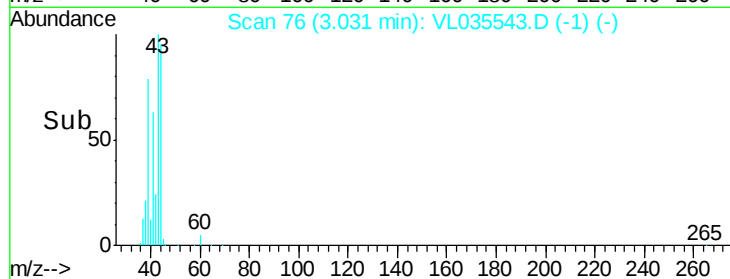
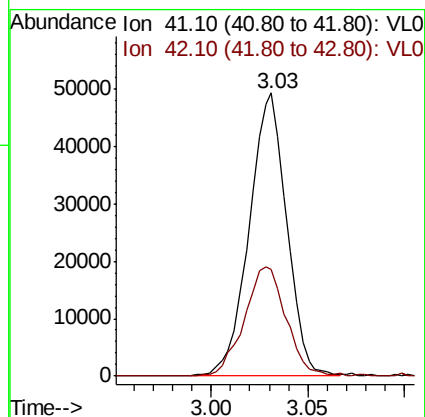
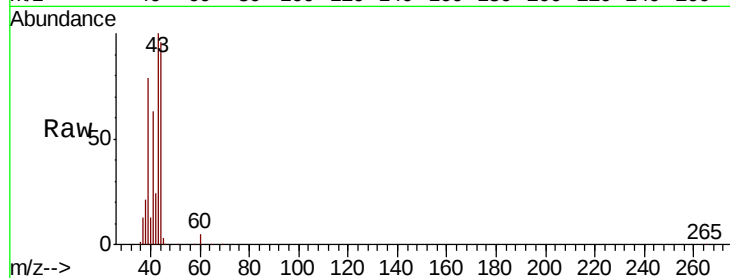
IA-5DL

Tot Ion: 41 Resp: 66646

Ion Ratio Lower Upper

41 100

42 43.0 56.3 84.5#



#10

Heptane

Concen: 0.033 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VL035543.D

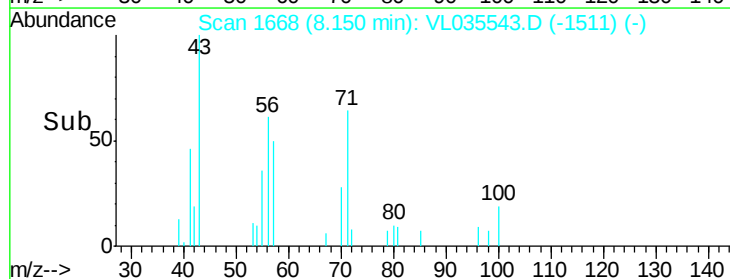
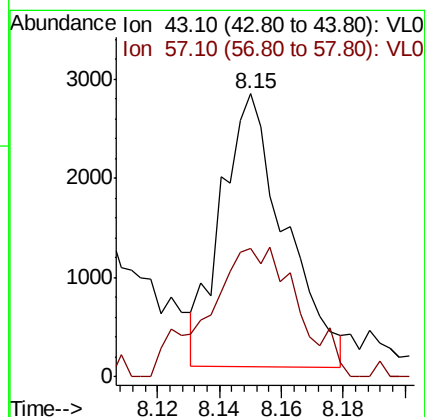
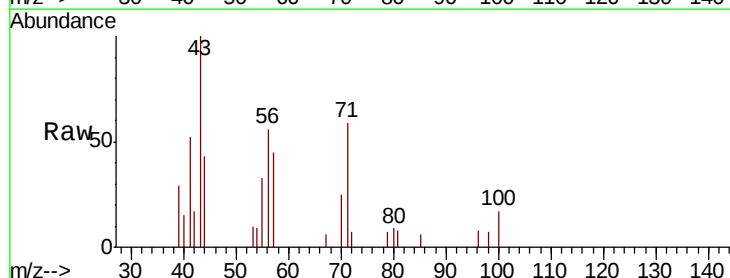
Acq: 3 Sep 2020 23:10

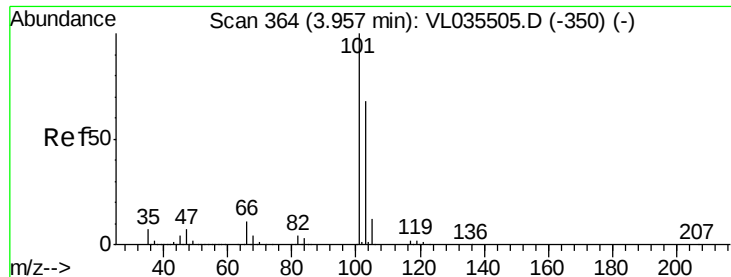
Tgt Ion: 43 Resp: 3961

Ion Ratio Lower Upper

43 100

57 68.6 51.4 77.0

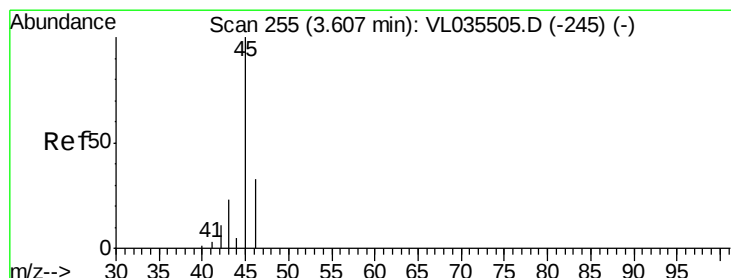
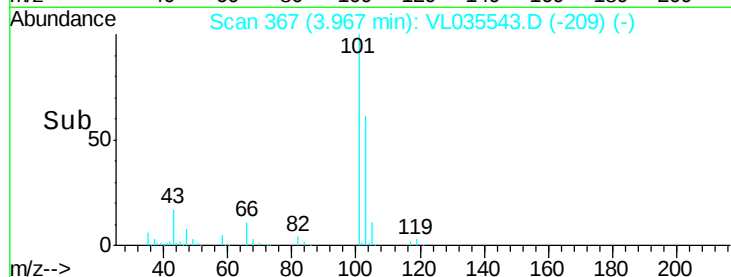
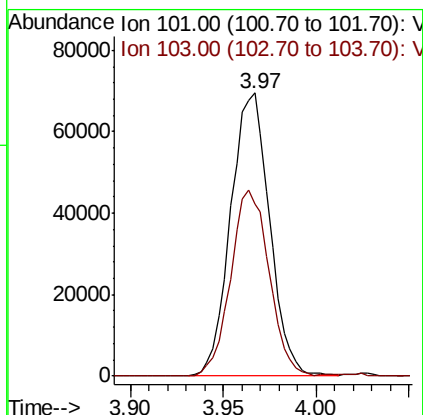
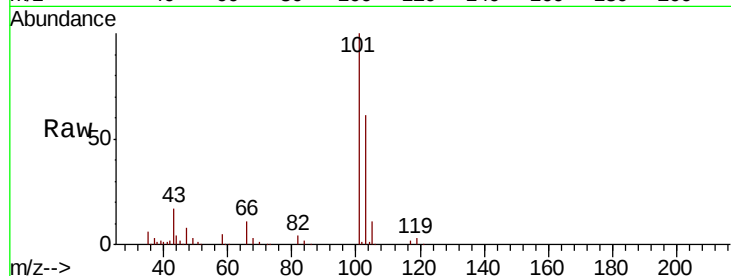




#11
 Trichlorofluoromethane
 Concen: 0.380 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.01 min
 Lab File: VL035543.D
 Acq: 3 Sep 2020 23:10

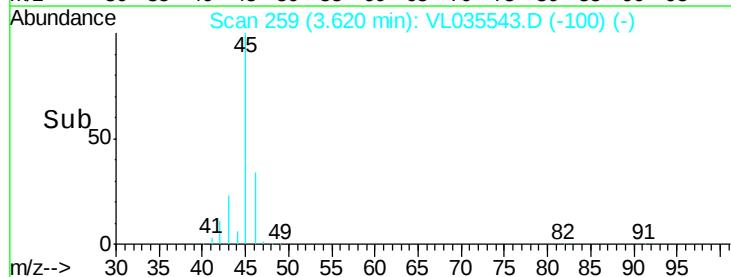
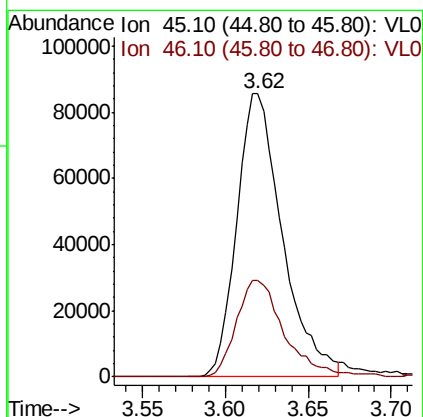
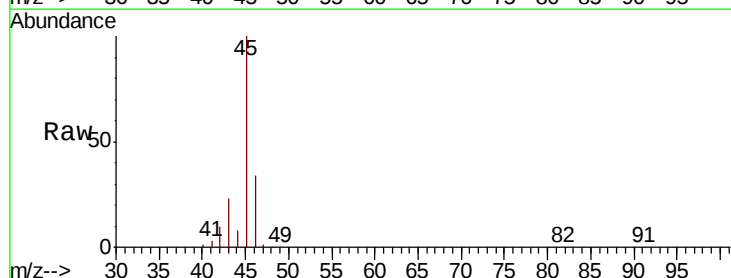
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL

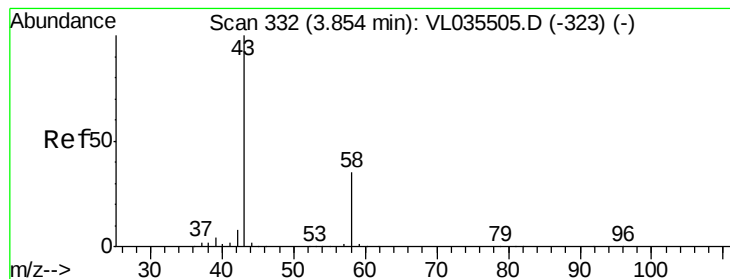
Tot Ion:101 Resp: 101750
 Ion Ratio Lower Upper
 101 100
 103 60.5 54.5 81.7



#13
 Ethanol
 Concen: 14.661 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL035543.D
 Acq: 3 Sep 2020 23:10

Tgt Ion: 45 Resp: 164029
 Ion Ratio Lower Upper
 45 100
 46 36.2 15.2 60.6





#15

Acetone

Concen: 56.513 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

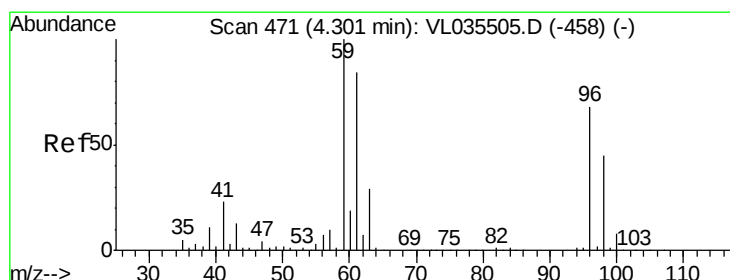
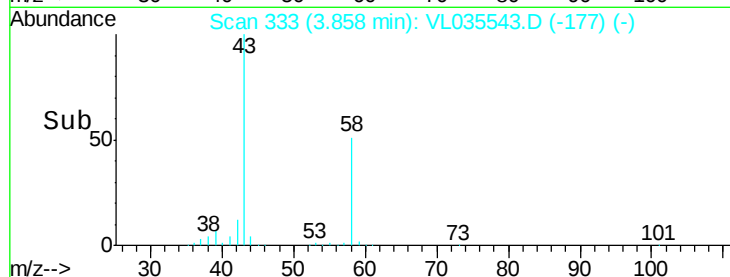
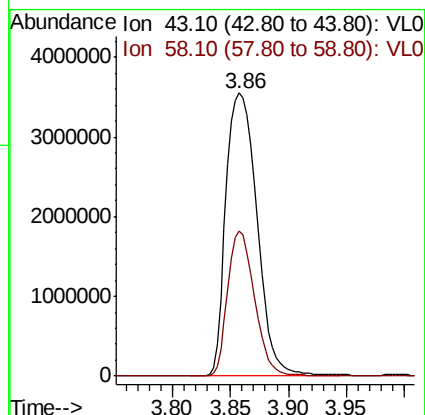
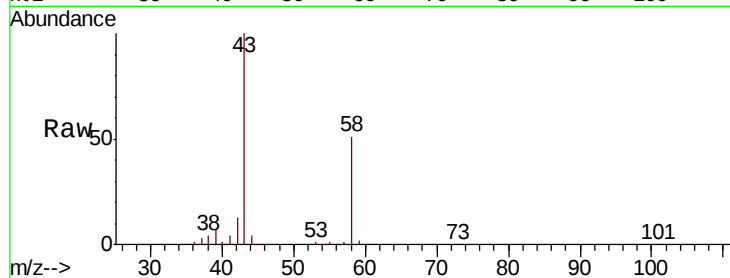
IA-5DL

Tot Ion: 43 Resp: 6596462

Ion Ratio Lower Upper

43 100

58 44.4 28.4 42.6#



#17

tert-Butyl alcohol

Concen: 1.103 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.02 min

Lab File: VL035543.D

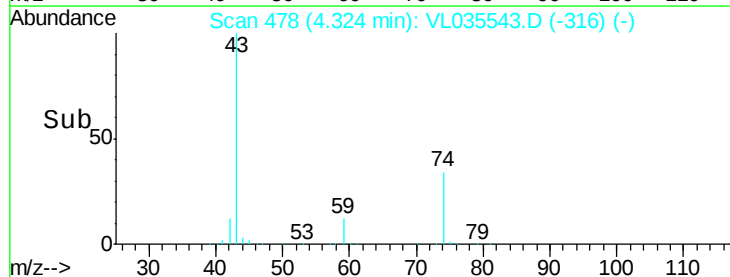
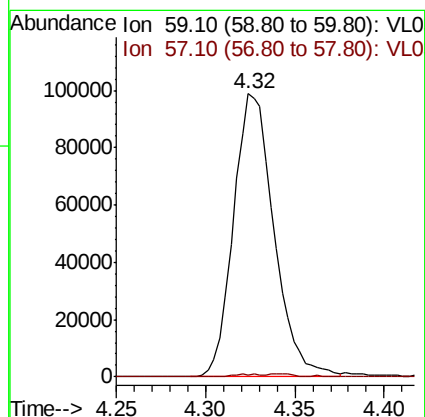
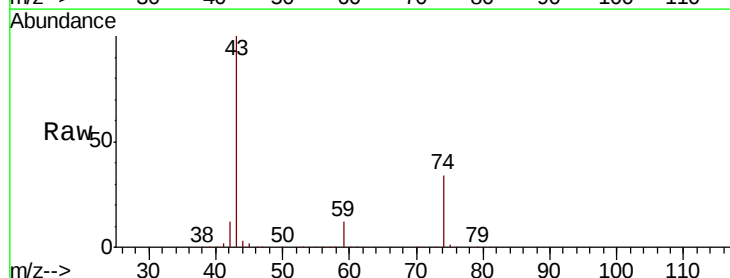
Acq: 3 Sep 2020 23:10

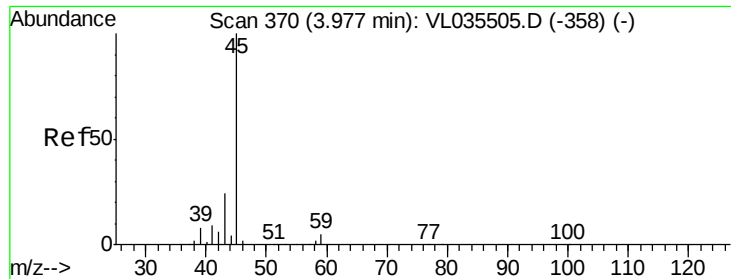
Tgt Ion: 59 Resp: 156649

Ion Ratio Lower Upper

59 100

57 2.6 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 1.036 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

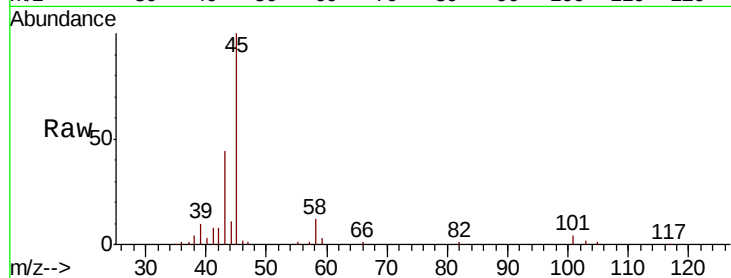
IA-5DL

Tot Ion: 45 Resp: 72118

Ion Ratio Lower Upper

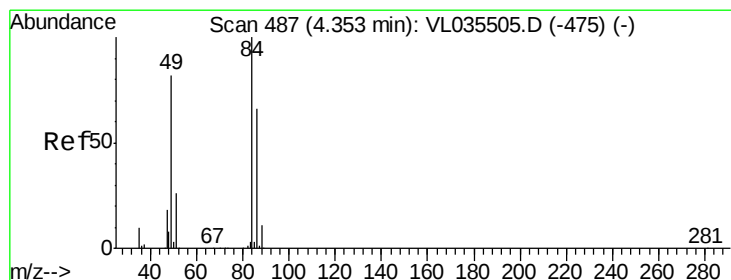
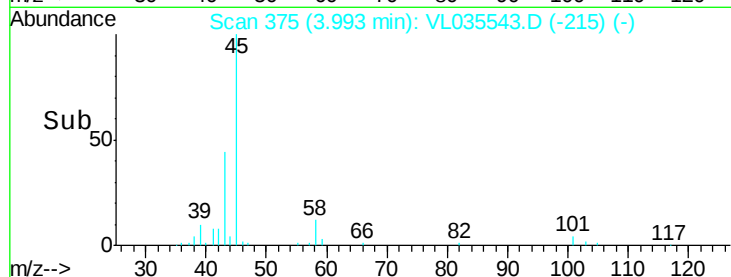
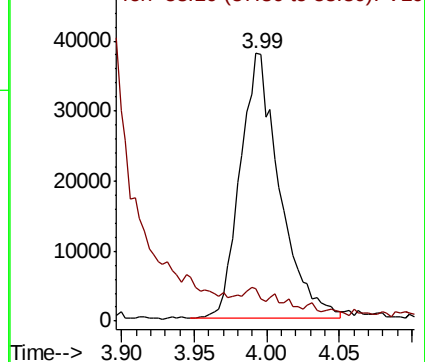
45 100

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: 1.789 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.01 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Tgt Ion: 84 Resp: 155498

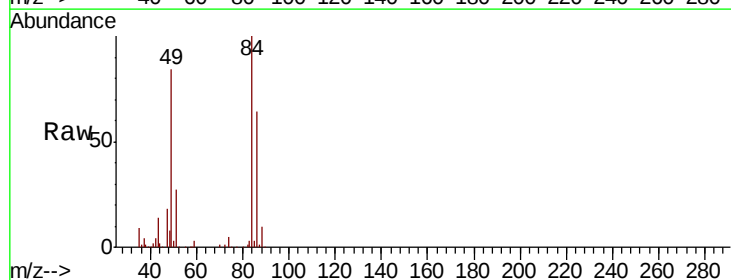
Ion Ratio Lower Upper

84 100

49 83.7 65.4 98.0

51 27.3 21.5 32.3

86 64.0 52.9 79.3

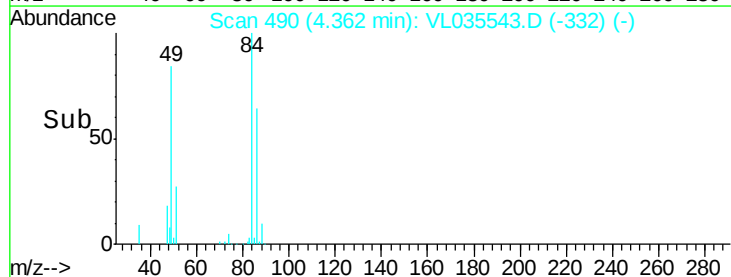
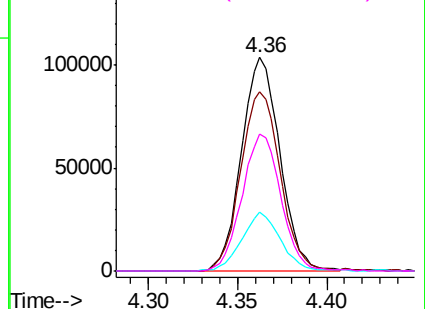


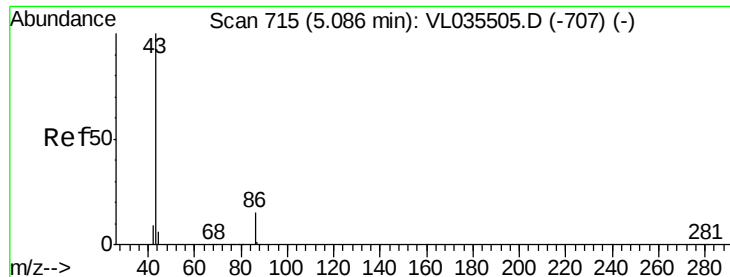
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.158 ppbv

RT: 5.09 min Scan# 716

Delta R.T. 0.00 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

Tot Ion: 43 Resp: 23605

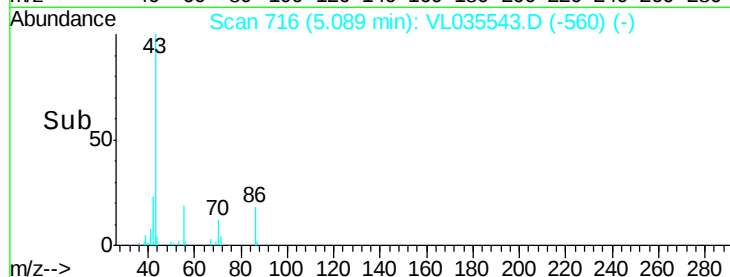
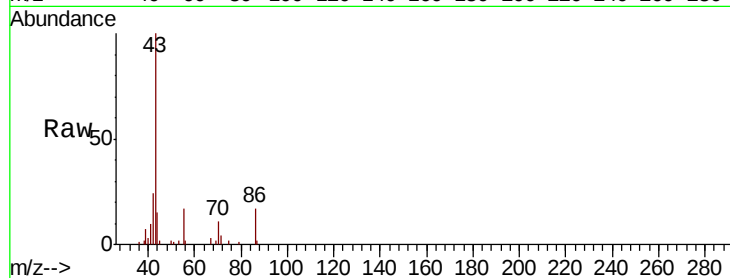
Ion Ratio Lower Upper

43 100

86 17.6 10.6 16.0#

42 23.2 7.5 11.3#

44 3.7 4.4 6.6#

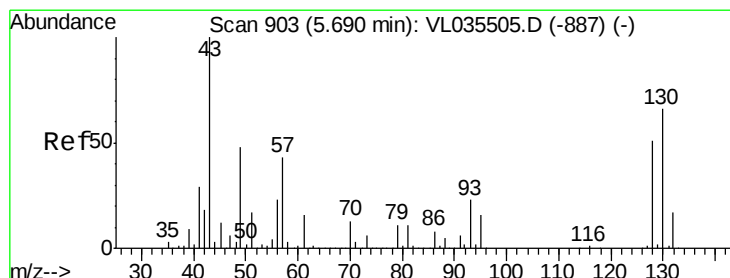
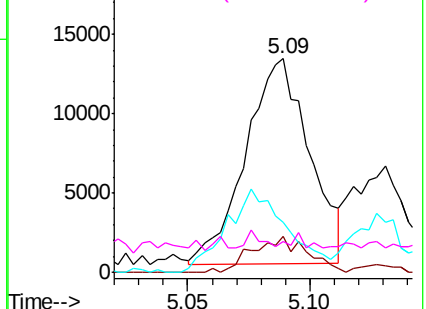


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.255 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Tgt Ion: 43 Resp: 52516

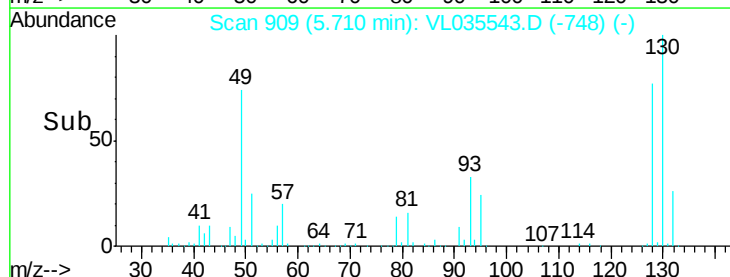
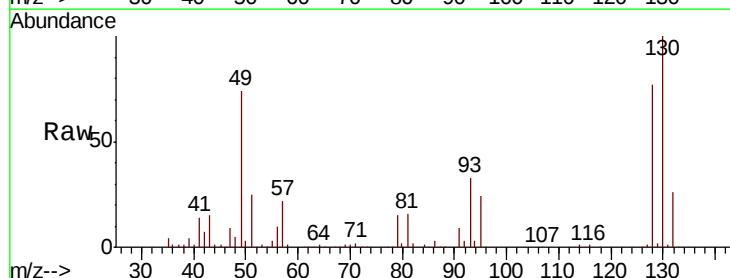
Ion Ratio Lower Upper

43 100

45 5.9 8.4 12.6#

61 3.9 10.6 16.0#

70 5.6 9.4 14.2#

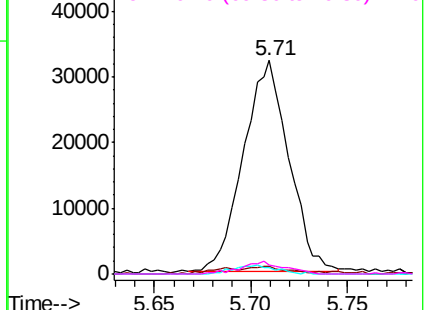


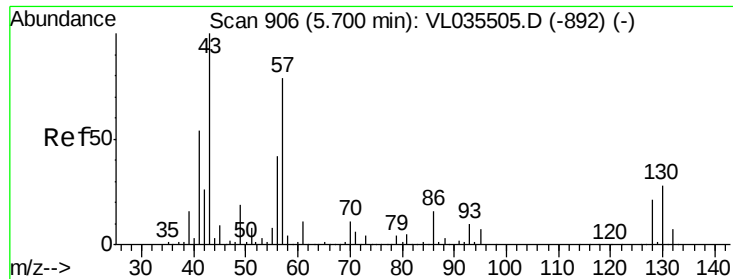
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

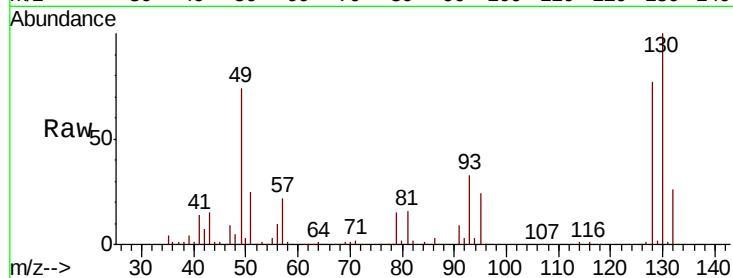




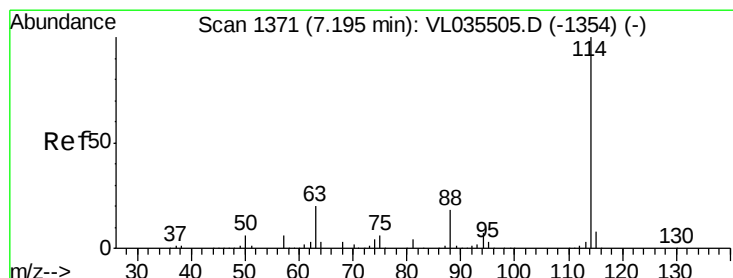
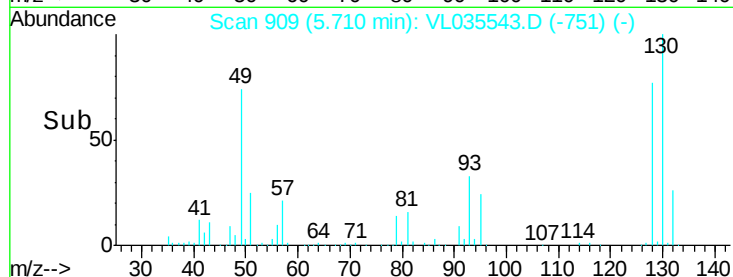
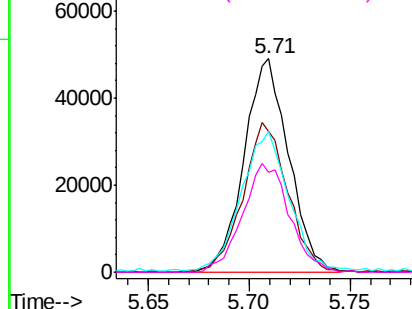
#26
Hexane
Concen: 0.653 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

Instrument :
MSVOA_L
ClientSampleId :
IA-5DL

Tot Ion: 57 Resp: 76244
Ion Ratio Lower Upper
57 100
41 70.4 55.9 83.9
43 72.1 141.8 212.8#
56 53.2 41.8 62.8

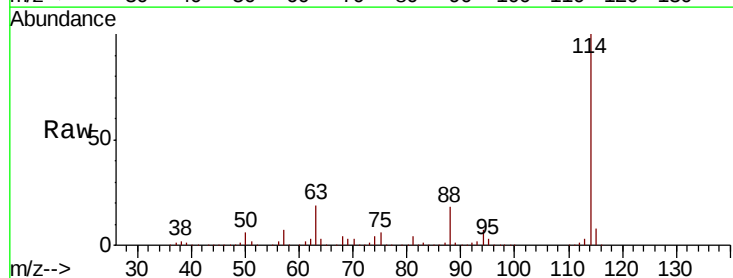


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

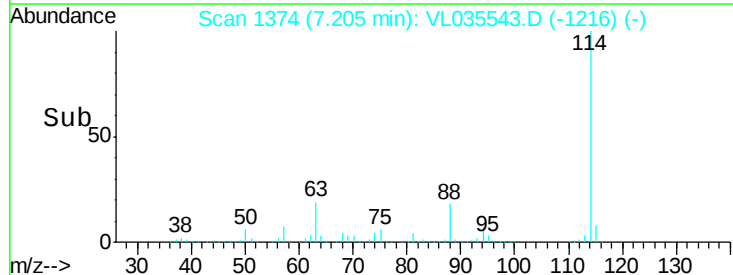
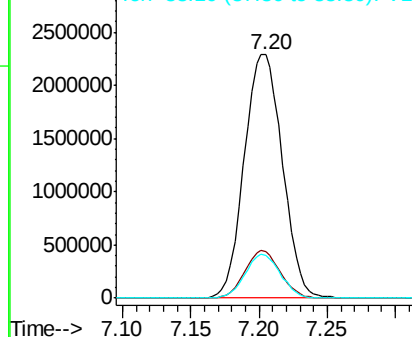


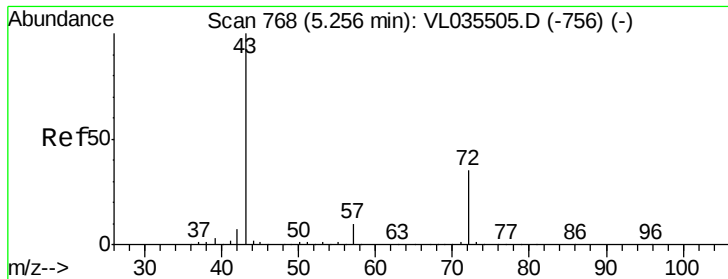
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

Tgt Ion: 114 Resp: 4435558
Ion Ratio Lower Upper
114 100
63 18.3 14.7 22.1
88 16.8 13.4 20.2



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

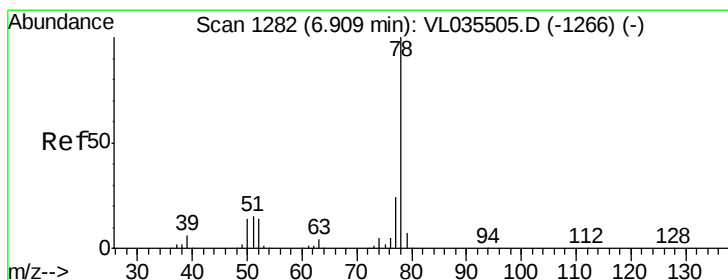
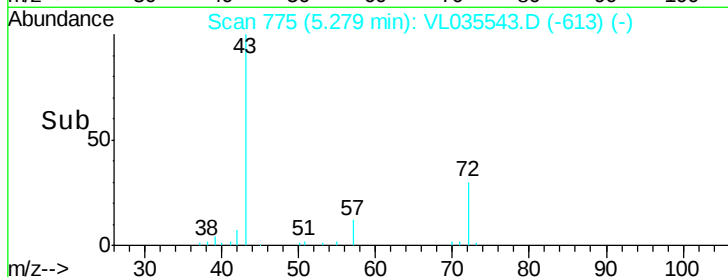
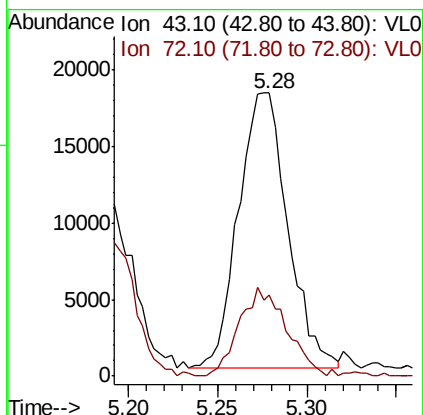
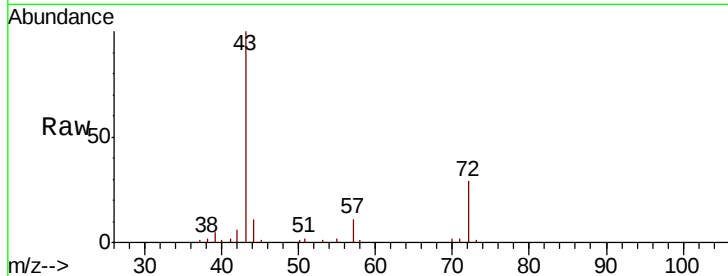




#34
2-Butanone
Concen: 0.263 ppbv
RT: 5.28 min Scan# 775
Delta R.T. 0.02 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

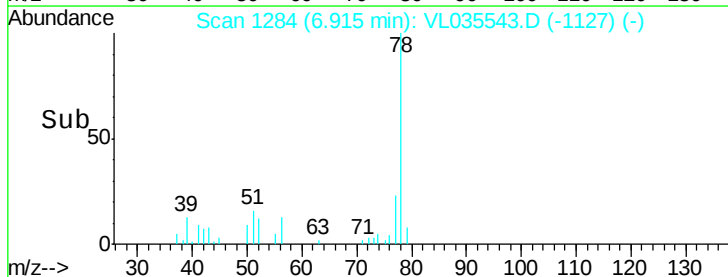
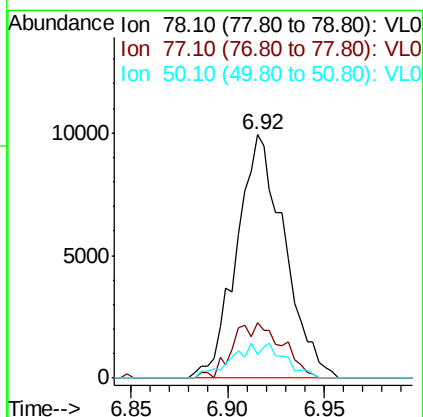
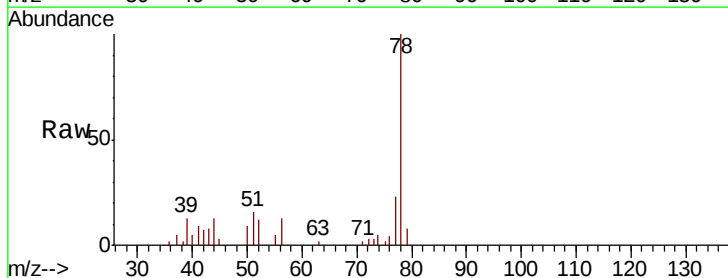
Instrument :
MSVOA_L
ClientSampled :
IA-5DL

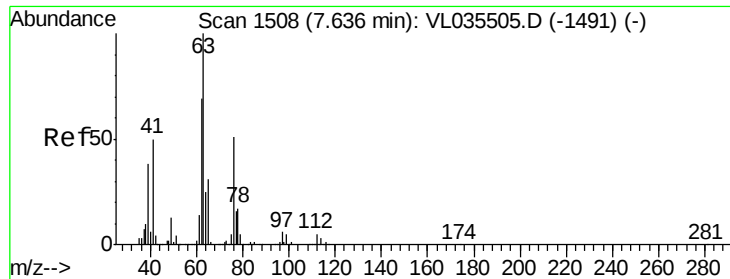
Tot Ion: 43 Resp: 34576
Ion Ratio Lower Upper
43 100
72 31.8 27.7 41.5



#36
Benzene
Concen: 0.059 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

Tgt Ion: 78 Resp: 17047
Ion Ratio Lower Upper
78 100
77 22.6 19.3 28.9
50 9.4 11.0 16.6#

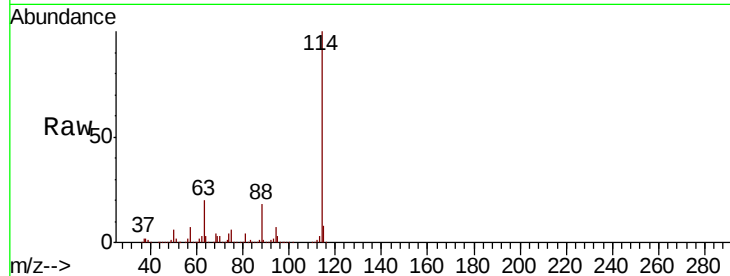




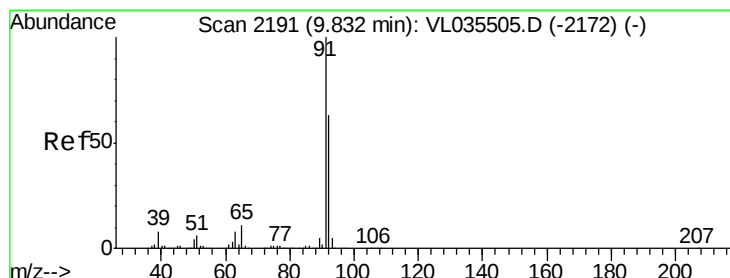
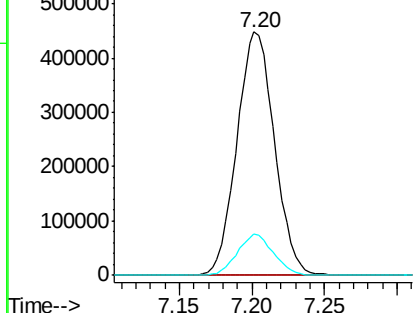
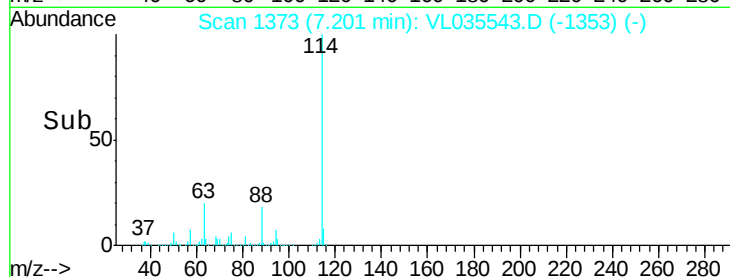
#39
 1,2-Dichloropropane
 Concen: 8.326 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. -0.43 min
 Lab File: VL035543.D
 Acq: 3 Sep 2020 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5DL

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	40.0	60.0#
62	17.0	55.4	83.0#

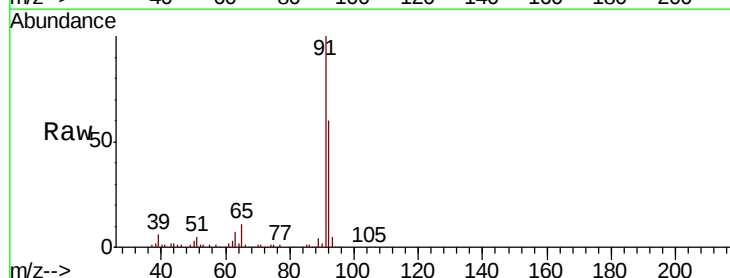


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

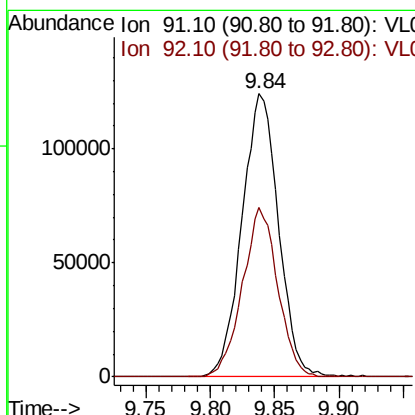
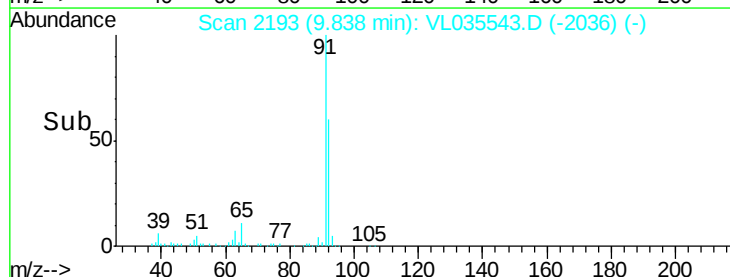


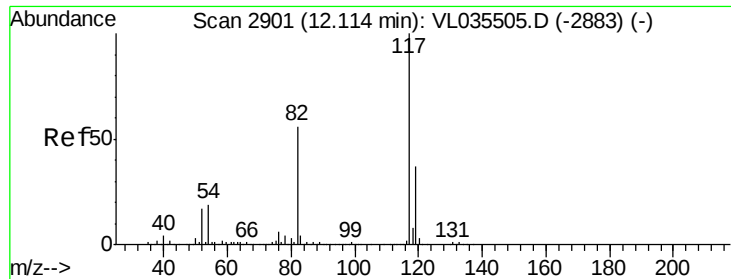
#53
 Toluene
 Concen: 0.679 ppbv
 RT: 9.84 min Scan# 2193
 Delta R.T. 0.01 min
 Lab File: VL035543.D
 Acq: 3 Sep 2020 23:10

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	49.8	74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

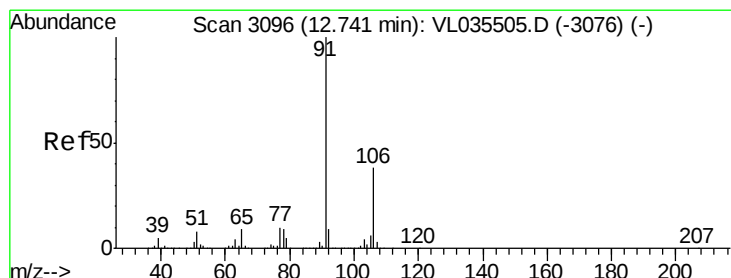
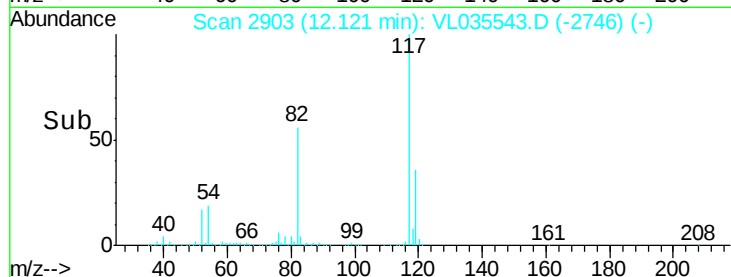
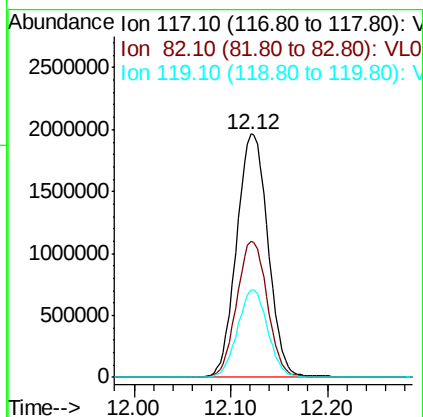
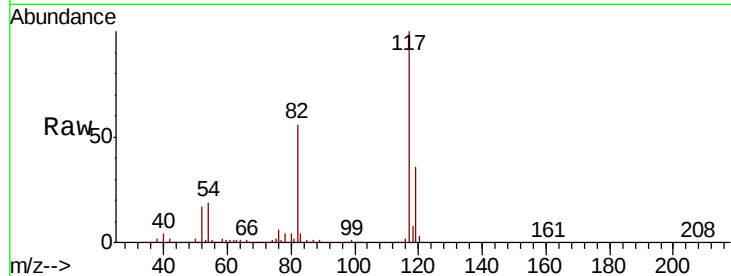




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

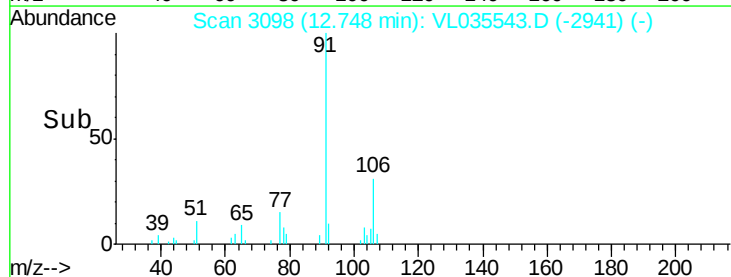
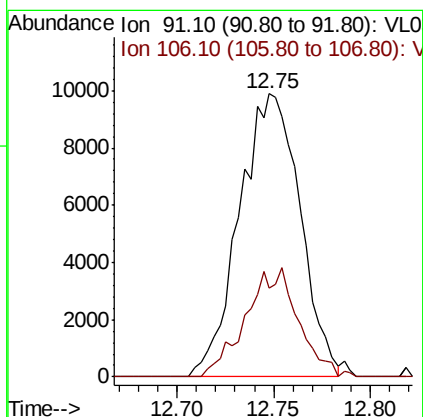
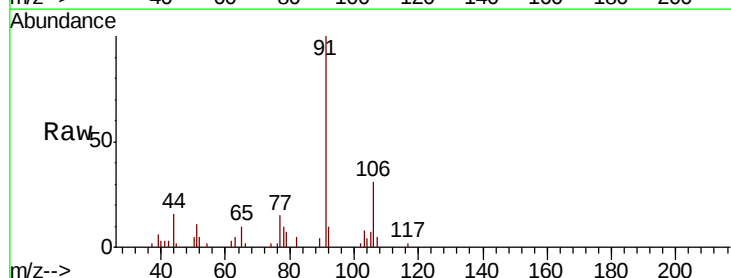
Instrument :
MSVOA_L
ClientSampleId :
IA-5DL

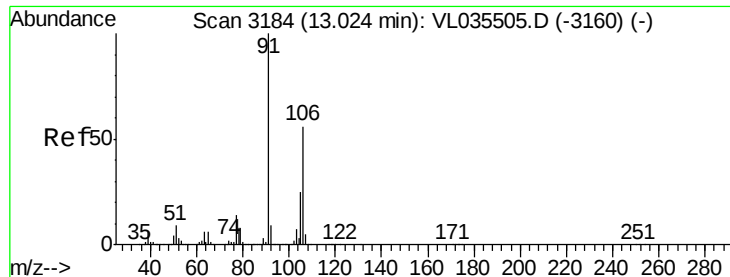
Tot Ion:117 Resp: 4439176
Ion Ratio Lower Upper
117 100
82 55.1 41.6 62.4
119 34.6 29.3 43.9



#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 12.75 min Scan# 3098
Delta R.T. 0.01 min
Lab File: VL035543.D
Acq: 3 Sep 2020 23:10

Tgt Ion: 91 Resp: 21590
Ion Ratio Lower Upper
91 100
106 31.2 30.3 45.5





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. 0.01 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampled :

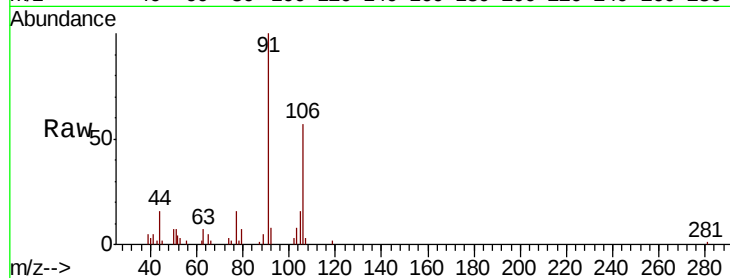
IA-5DL

Tot Ion: 91 Resp: 12920

Ion Ratio Lower Upper

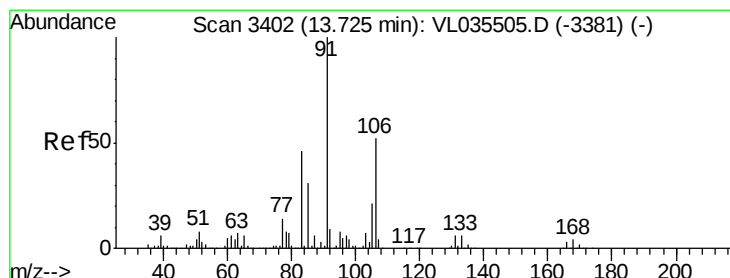
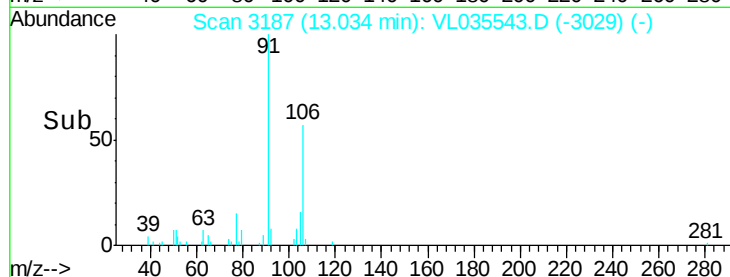
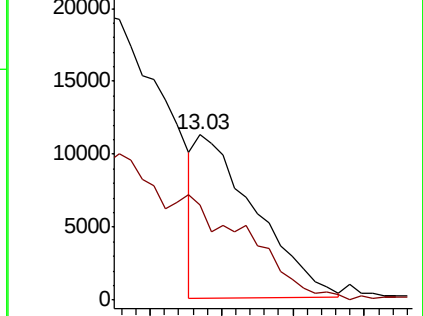
91 100

106 0.0 43.4 65.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.064 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VL035543.D

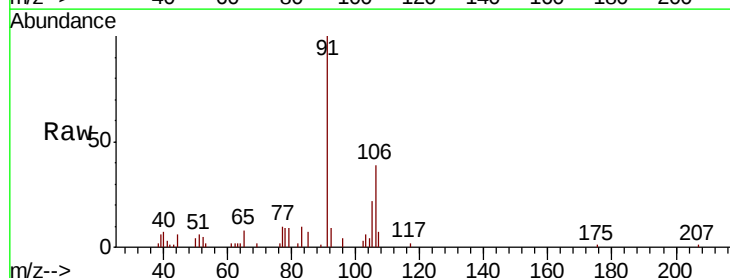
Acq: 3 Sep 2020 23:10

Tgt Ion: 91 Resp: 24824

Ion Ratio Lower Upper

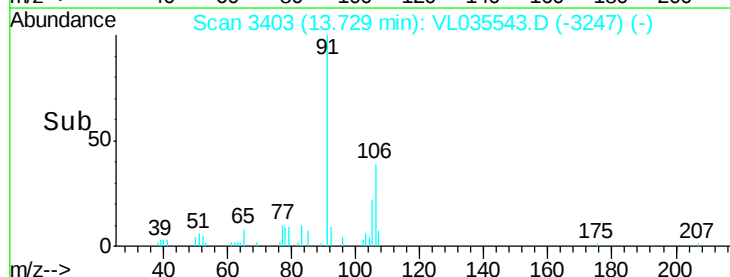
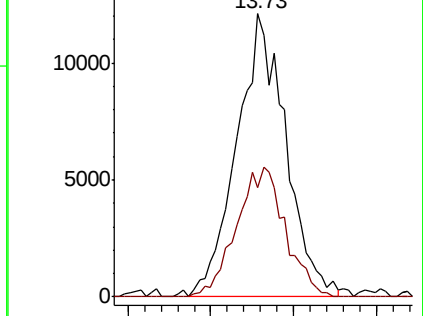
91 100

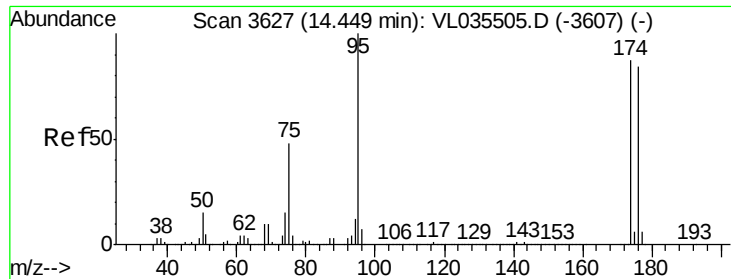
106 45.6 25.8 77.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.207 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.01 min

Lab File: VL035543.D

Acq: 3 Sep 2020 23:10

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

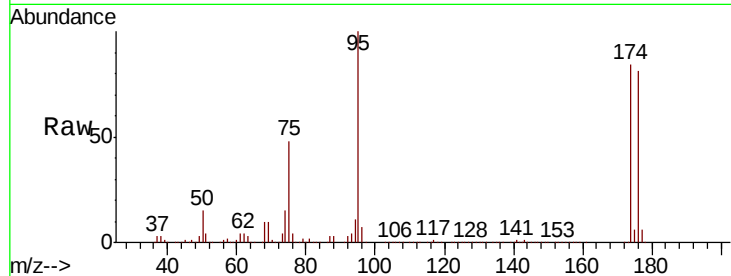
Tot Ion: 95 Resp: 3217713

Ion Ratio Lower Upper

95 100

174 85.7 69.6 104.4

175 6.2 5.1 7.7



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

