

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034764.D
 Acq On : 3 Mar 2020 15:10
 Operator : SY/AP
 Sample : L1704-03DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3-4DUP

Quant Time: Mar 04 05:46:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	894315	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1860443	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	1768812	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1532543	10.57	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

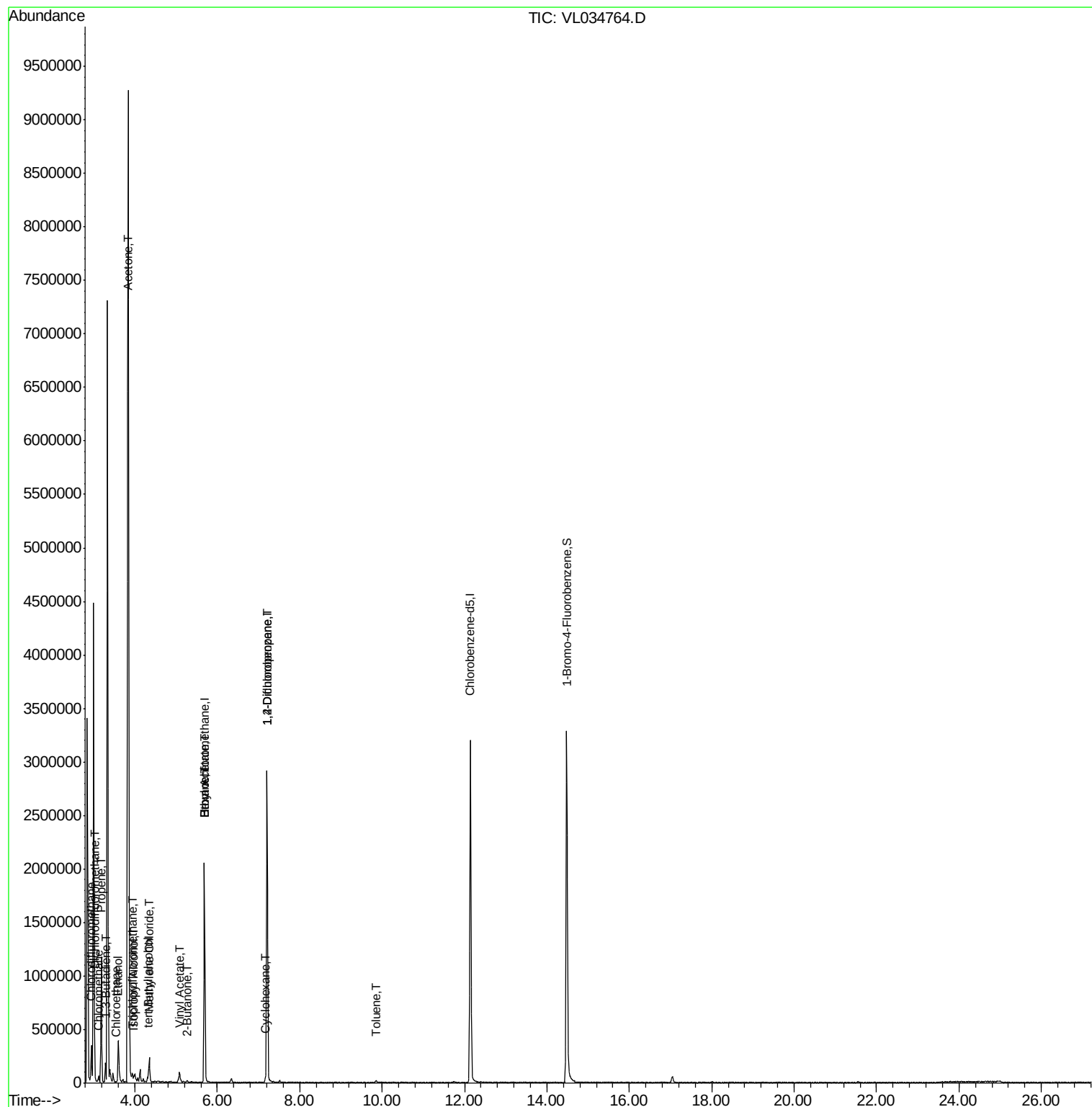
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	42498	0.301	ppbv #	85
3) Chlorodifluoromethane	2.93	51	220019	2.280	ppbv #	67
4) Chloromethane	3.11	50	46066	0.853	ppbv	99
7) Chloroethane	3.54	64	562	0.029	ppbv #	1
9) Propene	3.18	41	289710	7.181	ppbv	98
11) Trichlorofluoromethane	3.94	101	18799	0.152	ppbv	98
13) Ethanol	3.59	45	409606	32.139	ppbv	98
15) Acetone	3.83	43	9781398	95.983	ppbv #	69
16) 1,3-Butadiene	3.29	39	45288	0.960	ppbv #	12
17) tert-Butyl alcohol	4.32	59	2045	0.026	ppbv #	1
19) Isopropyl Alcohol	3.97	45	18713	0.308	ppbv #	94
20) Methylene Chloride	4.34	84	69217	1.826	ppbv	94
23) Vinyl Acetate	5.08	43	100864	0.728	ppbv #	93
25) Ethyl Acetate	5.69	43	5738	0.032	ppbv #	62
26) Hexane	5.69	57	5507	0.066	ppbv #	59
30) Cyclohexane	7.16	84	3830	0.059	ppbv #	27
34) 2-Butanone	5.26	43	9749	0.083	ppbv #	72
39) 1,2-Dichloropropane	7.21	63	548549	8.581	ppbv #	24
53) Toluene	9.85	91	5189	0.030	ppbv #	1

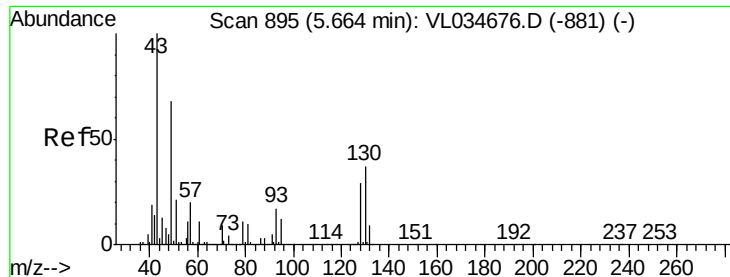
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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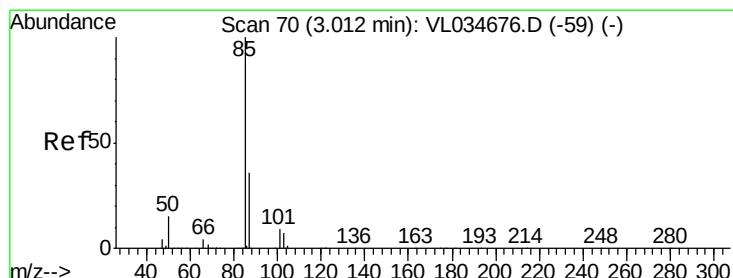
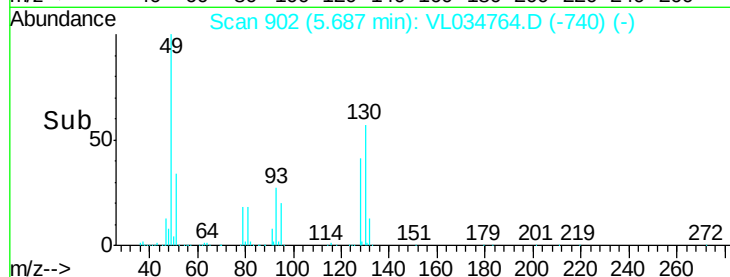
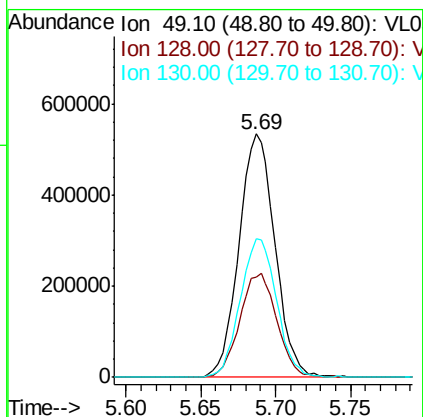
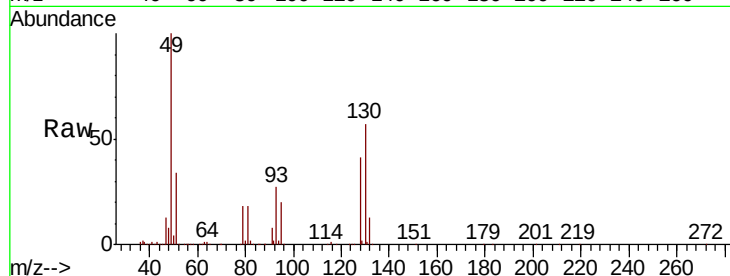




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.02 min
 Lab File: VL034764.D
 Acq: 3 Mar 2020 15:10

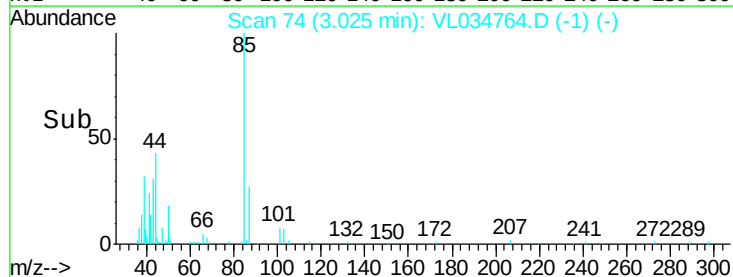
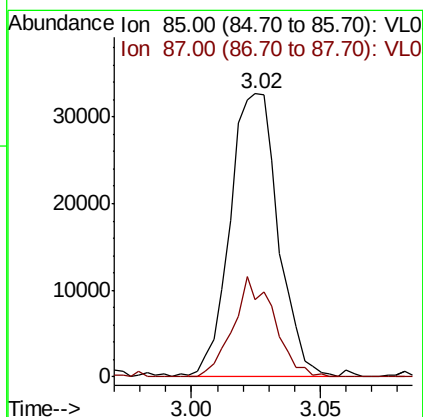
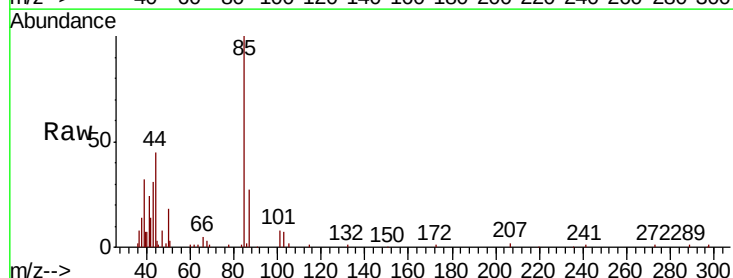
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3-4DUP

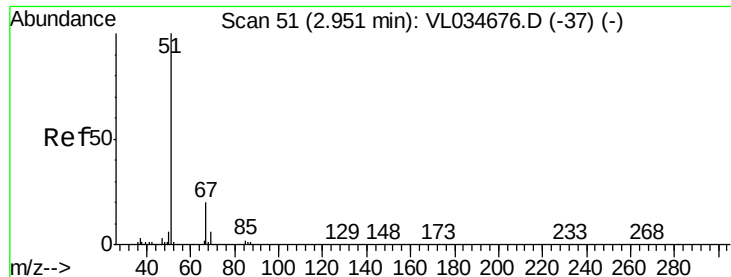
Tot Ion: 49 Resp: 894315
 Ion Ratio Lower Upper
 49 100
 128 44.3 21.6 65.0
 130 57.4 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.301 ppbv
 RT: 3.02 min Scan# 74
 Delta R.T. 0.01 min
 Lab File: VL034764.D
 Acq: 3 Mar 2020 15:10

Tgt Ion: 85 Resp: 42498
 Ion Ratio Lower Upper
 85 100
 87 27.5 29.2 43.8#





#3

Chlorodifluoromethane

Concen: 2.280 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

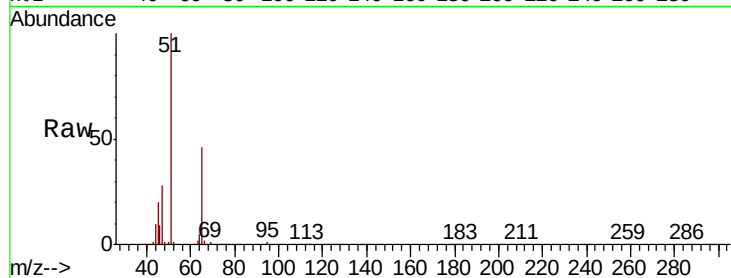
IA-3-4DUP

Tot Ion: 51 Resp: 220019

Ion Ratio Lower Upper

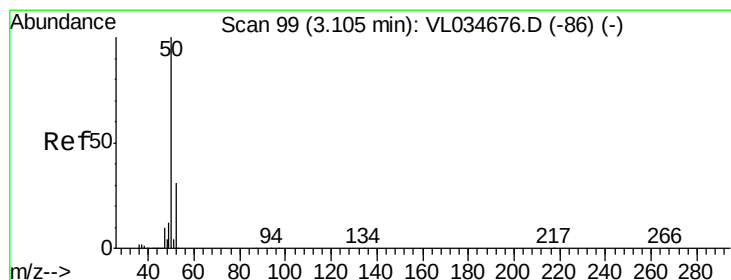
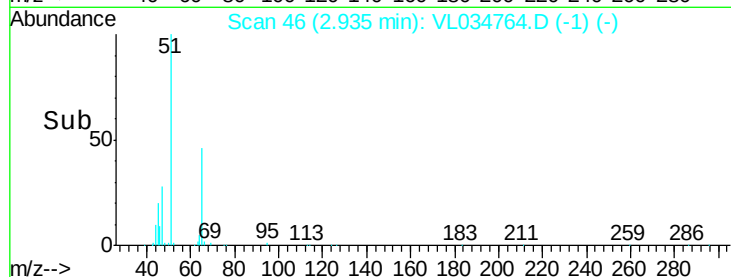
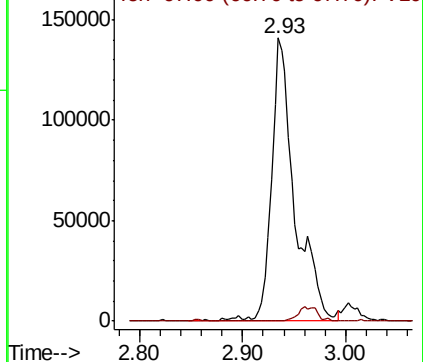
51 100

67 4.2 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.853 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034764.D

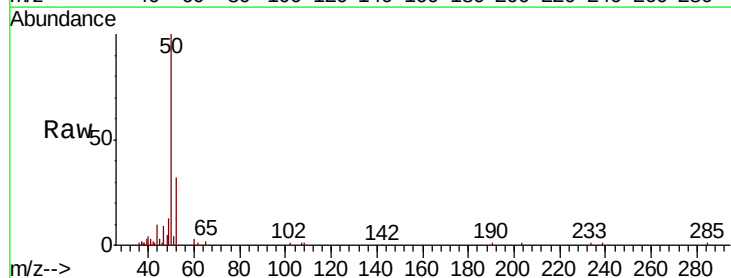
Acq: 3 Mar 2020 15:10

Tgt Ion: 50 Resp: 46066

Ion Ratio Lower Upper

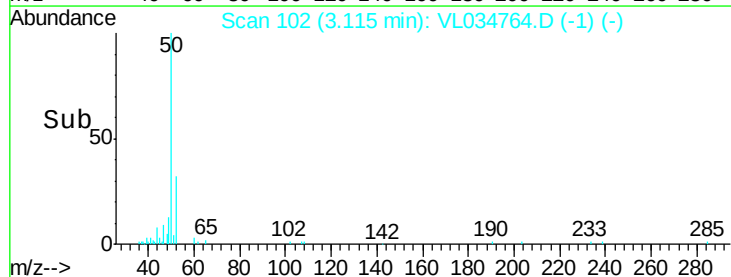
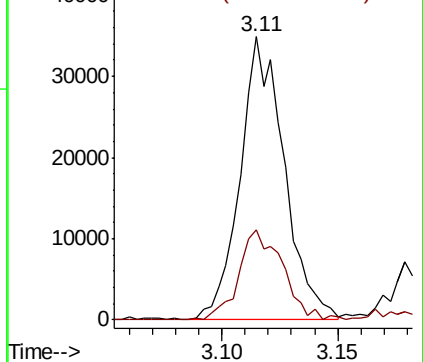
50 100

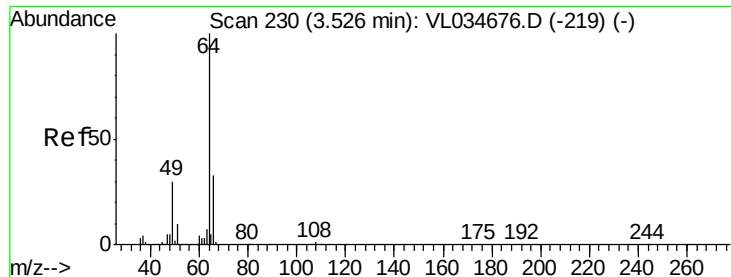
52 31.7 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.029 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.01 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

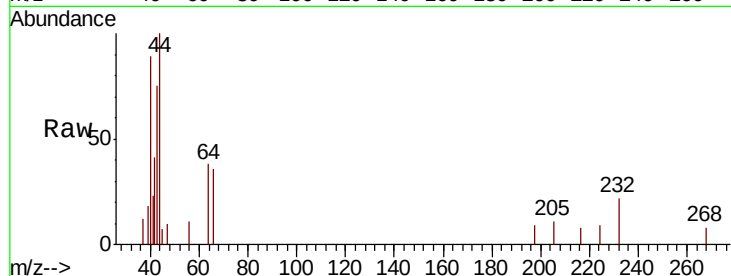
IA-3-4DUP

Tot Ion: 64 Resp: 562

Ion Ratio Lower Upper

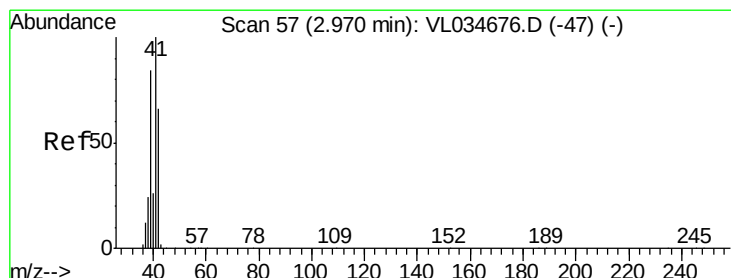
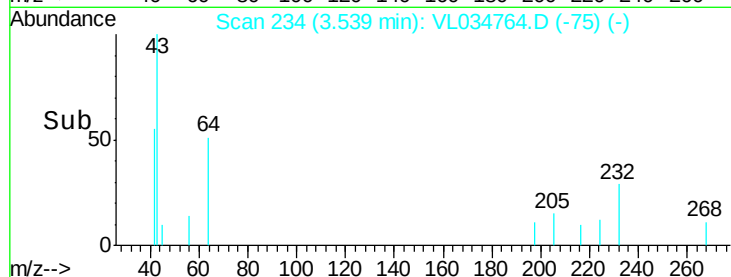
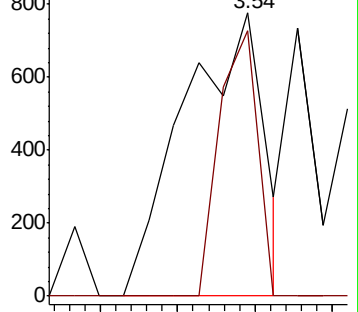
64 100

66 93.7 26.7 40.1#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 7.181 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.21 min

Lab File: VL034764.D

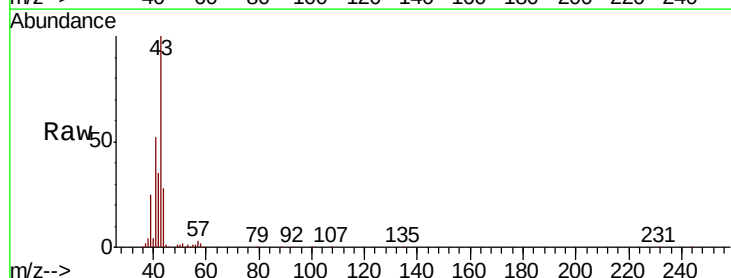
Acq: 3 Mar 2020 15:10

Tgt Ion: 41 Resp: 289710

Ion Ratio Lower Upper

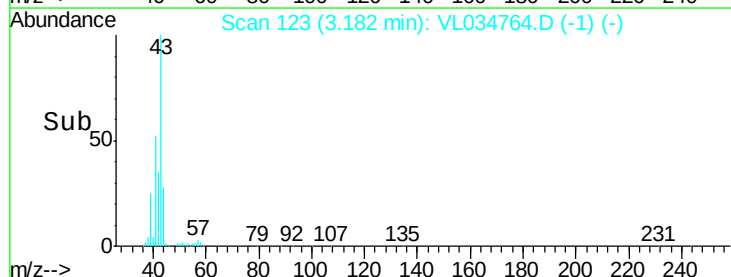
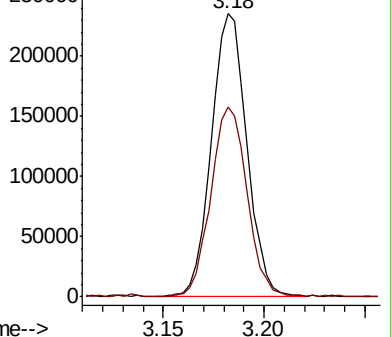
41 100

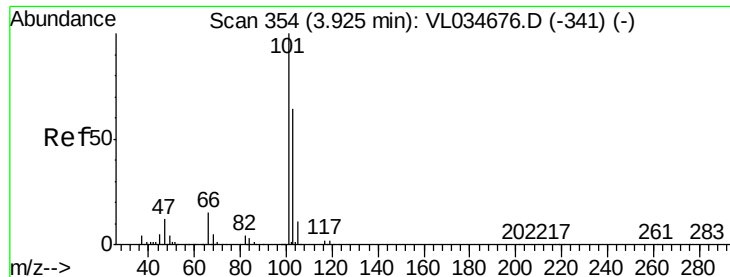
42 70.4 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

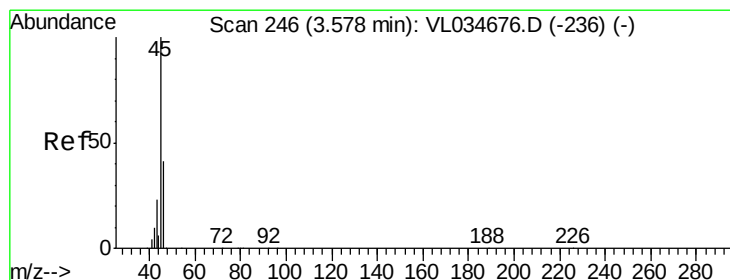
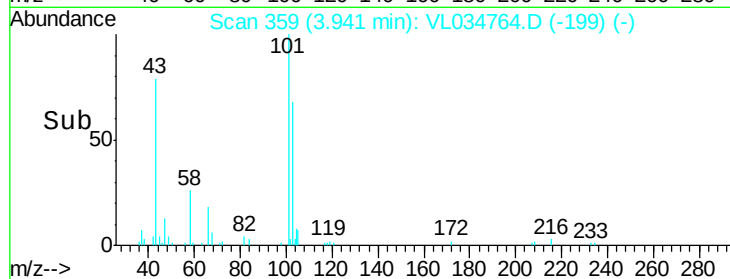
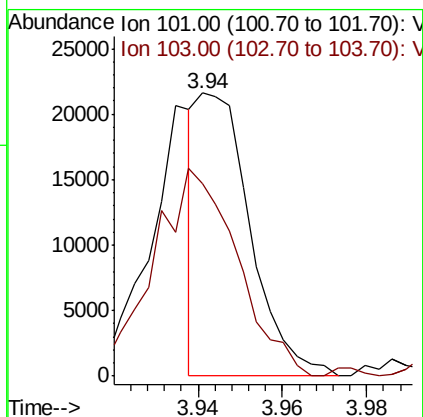
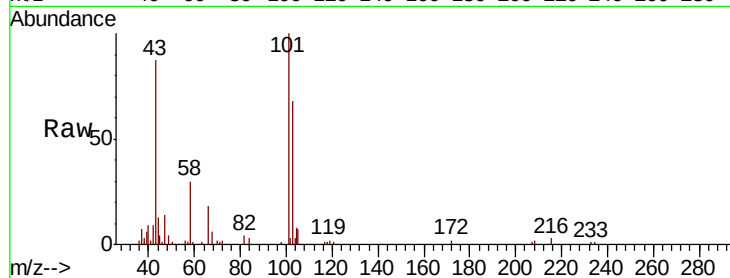




#11
 Trichlorofluoromethane
 Concen: 0.152 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.02 min
 Lab File: VL034764.D
 Acq: 3 Mar 2020 15:10

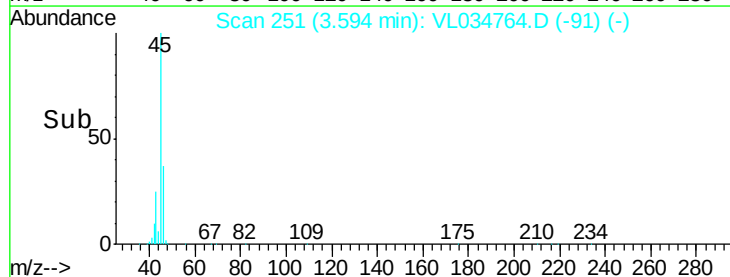
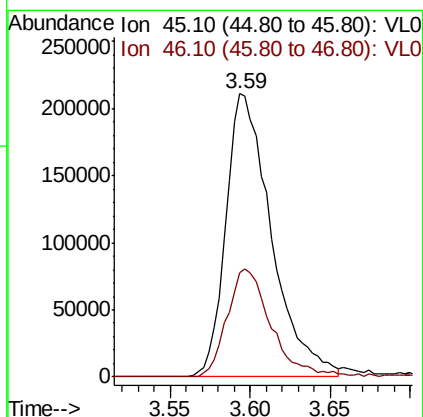
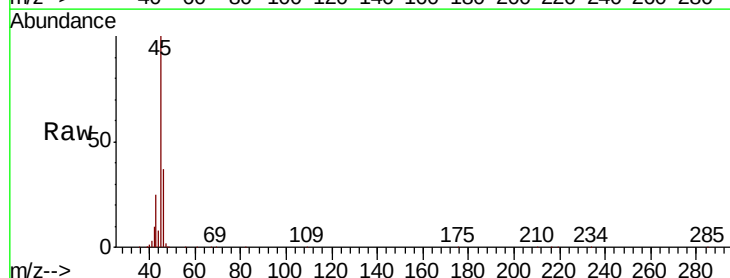
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3-4DUP

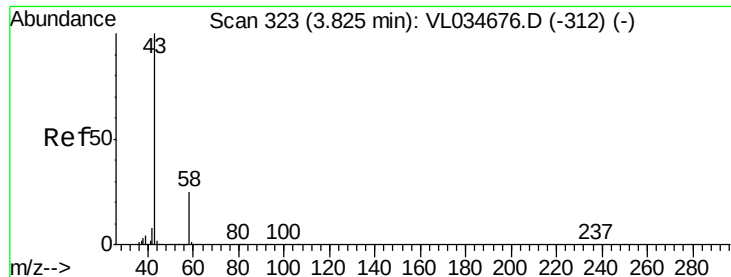
Tot Ion:101 Resp: 18799
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.2 76.8



#13
 Ethanol
 Concen: 32.139 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. 0.02 min
 Lab File: VL034764.D
 Acq: 3 Mar 2020 15:10

Tgt Ion: 45 Resp: 409606
 Ion Ratio Lower Upper
 45 100
 46 37.4 15.4 61.4





#15

Acetone

Concen: 95.983 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

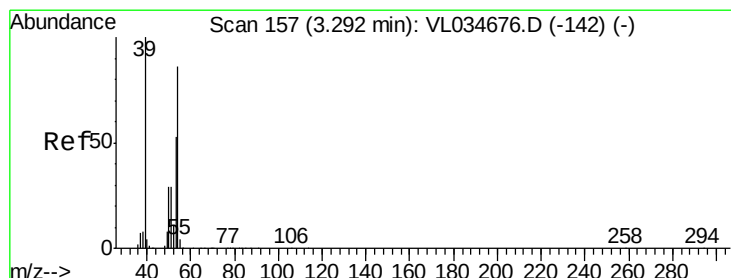
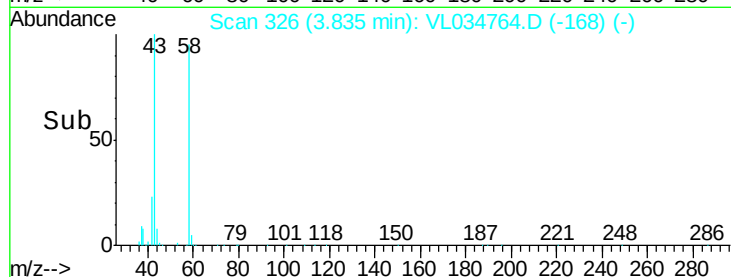
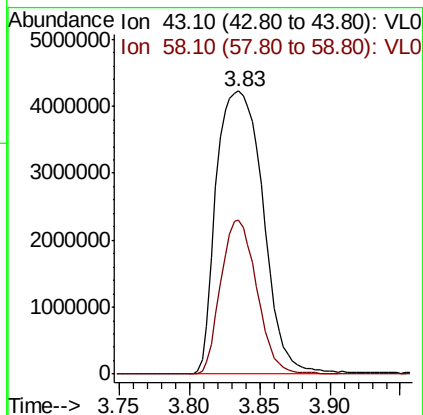
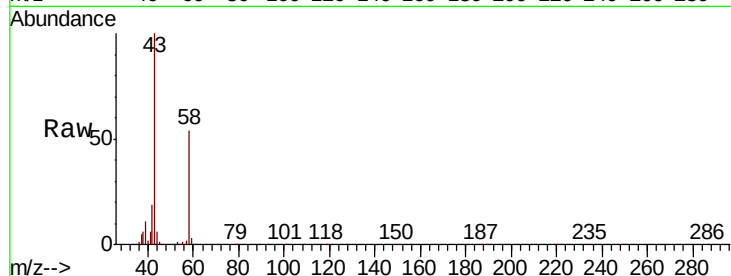
IA-3-4DUP

Tot Ion: 43 Resp: 9781398

Ion Ratio Lower Upper

43 100

58 42.5 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.960 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.00 min

Lab File: VL034764.D

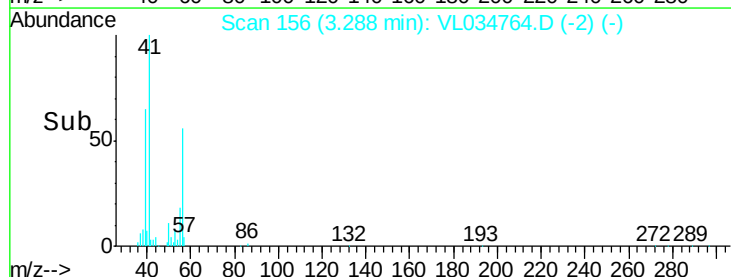
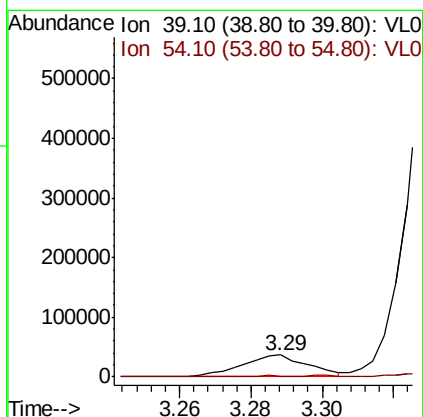
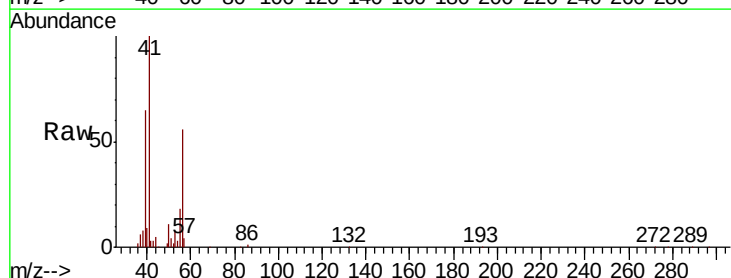
Acq: 3 Mar 2020 15:10

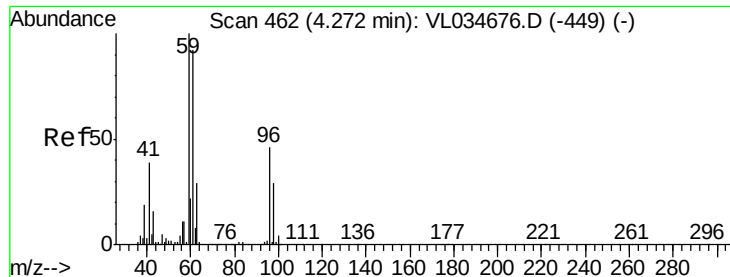
Tgt Ion: 39 Resp: 45288

Ion Ratio Lower Upper

39 100

54 4.5 67.0 100.6#





#17

tert-Butyl alcohol

Concen: 0.026 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.05 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

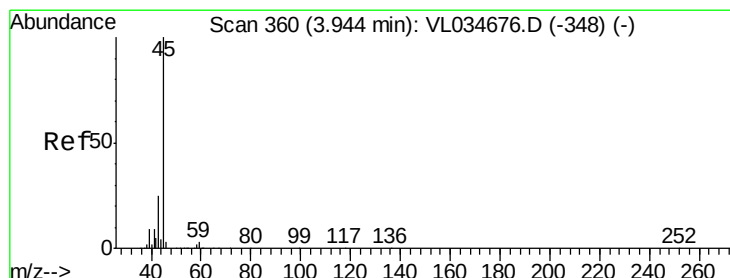
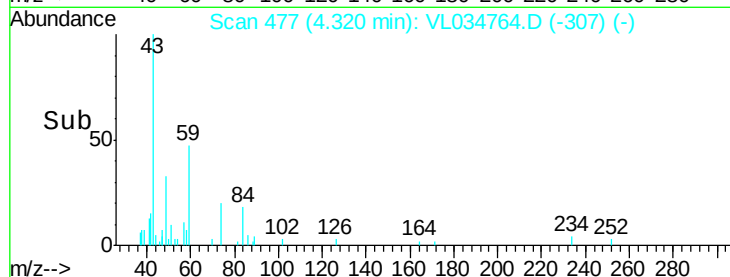
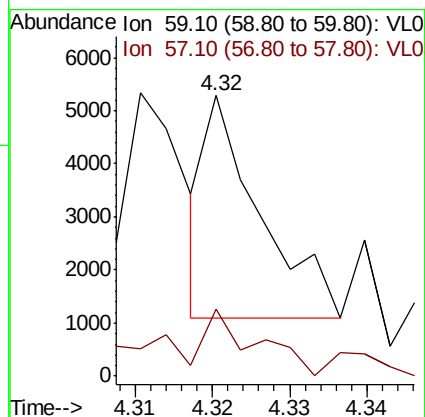
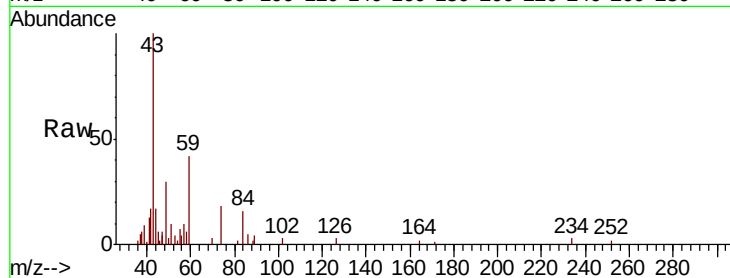
IA-3-4DUP

Tot Ion: 59 Resp: 2045

Ion Ratio Lower Upper

59 100

57 434.1 8.8 13.2#



#19

Isopropyl Alcohol

Concen: 0.308 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.03 min

Lab File: VL034764.D

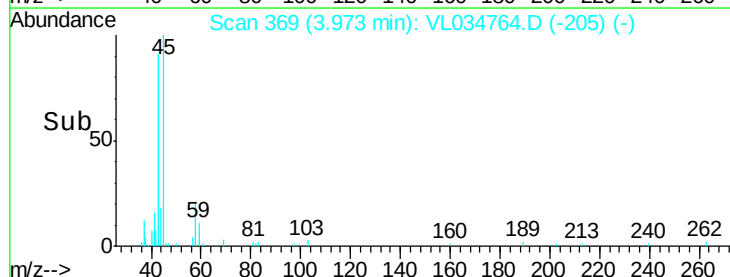
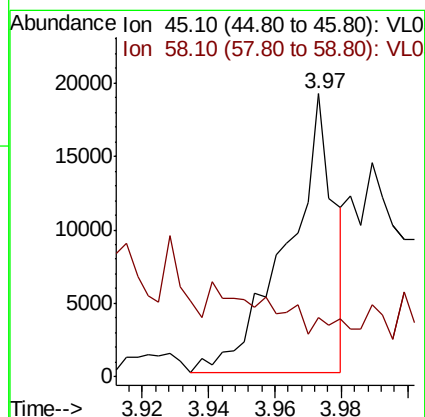
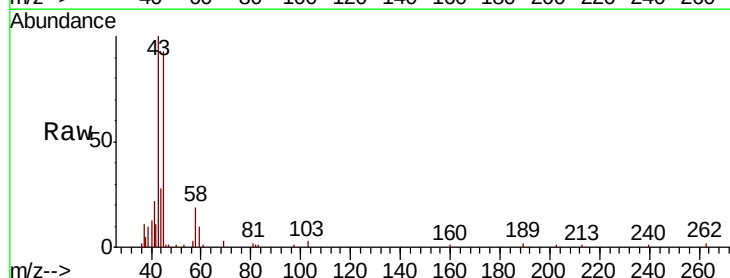
Acq: 3 Mar 2020 15:10

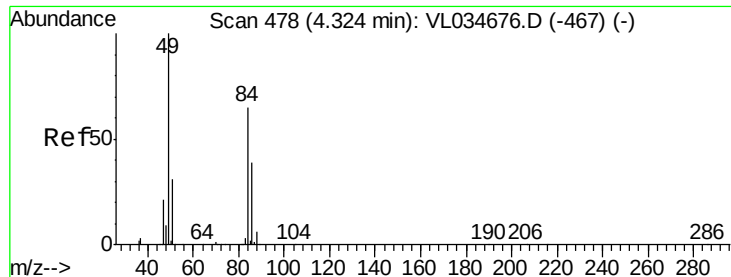
Tgt Ion: 45 Resp: 18713

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#

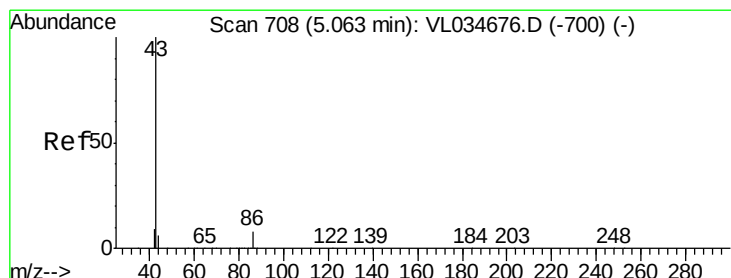
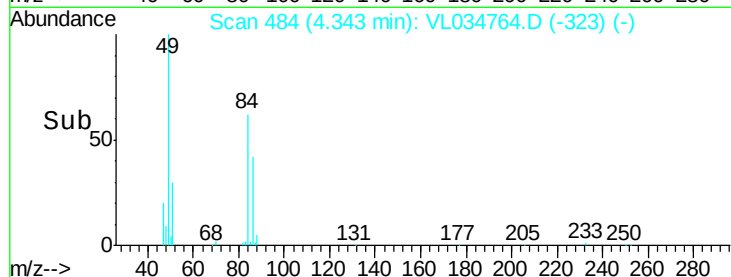
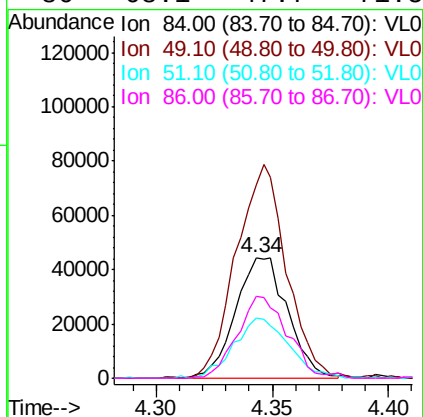
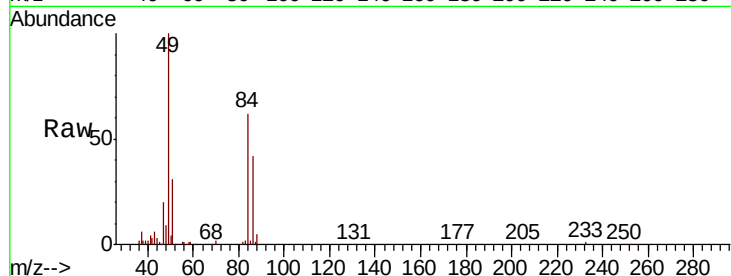




#20
Methylene Chloride
Concen: 1.826 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL034764.D
Acq: 3 Mar 2020 15:10

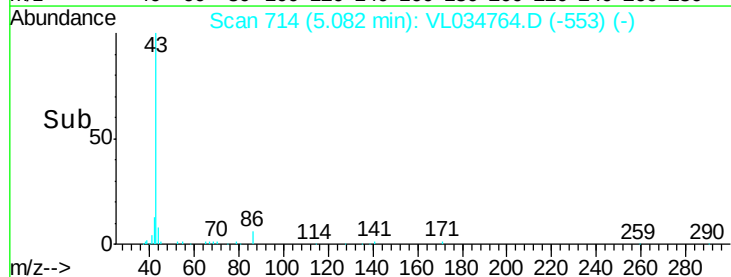
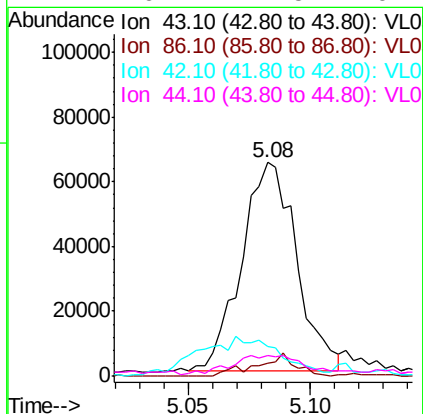
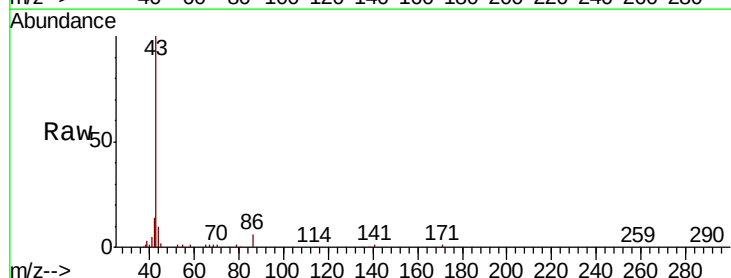
Instrument :
MSVOA_L
ClientSampleId :
IA-3-4DUP

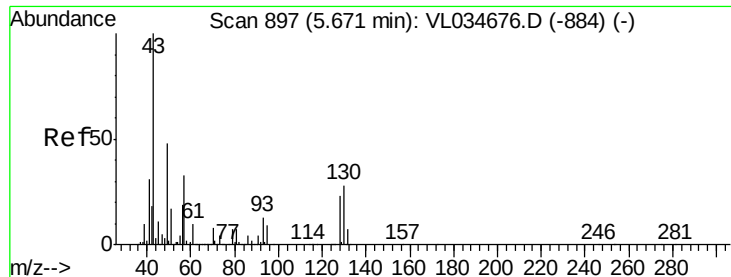
Tot Ion:	84	Resp:	69217
Ion	Ratio	Lower	Upper
84	100		
49	159.7	122.8	184.2
51	48.9	38.6	58.0
86	68.1	47.7	71.5



#23
Vinyl Acetate
Concen: 0.728 ppbv
RT: 5.08 min Scan# 714
Delta R.T. 0.02 min
Lab File: VL034764.D
Acq: 3 Mar 2020 15:10

Tgt Ion:	43	Resp:	100864
Ion	Ratio	Lower	Upper
43	100		
86	6.1	6.0	9.0
42	8.5	8.0	12.0
44	10.7	4.5	6.7#





#25

Ethyl Acetate

Concen: 0.032 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

IA-3-4DUP

Tot Ion: 43 Resp: 5738

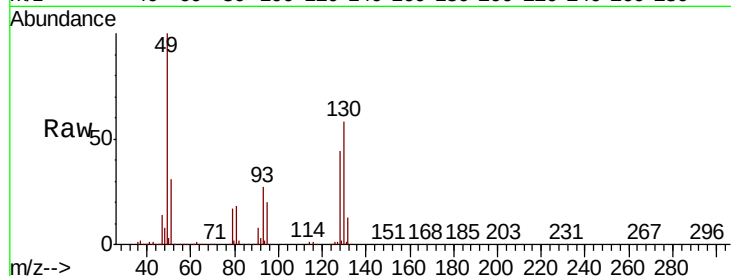
Ion Ratio Lower Upper

43 100

45 37.0 8.2 12.4#

61 15.5 7.8 11.6#

70 0.0 6.1 9.1#

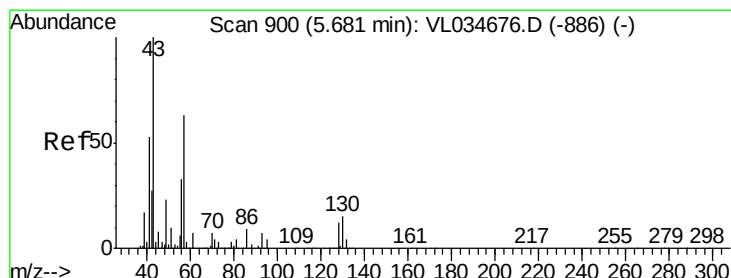
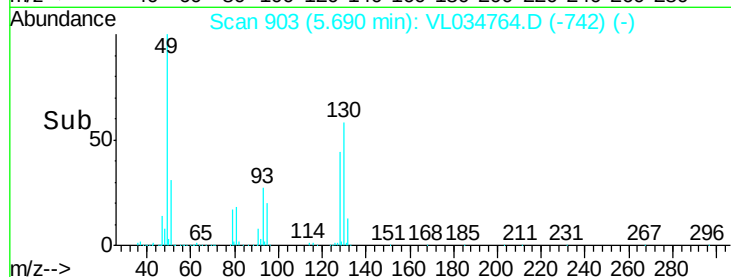
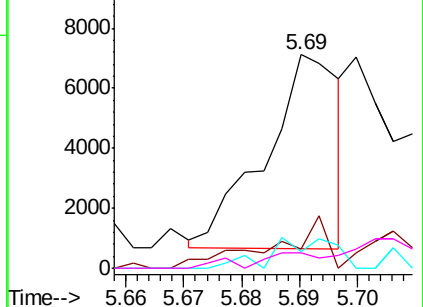


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.066 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Tgt Ion: 57 Resp: 5507

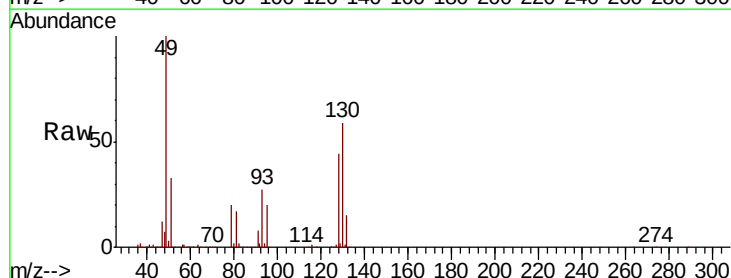
Ion Ratio Lower Upper

57 100

41 140.4 70.3 105.5#

43 272.5 177.0 265.4#

56 92.7 42.6 64.0#

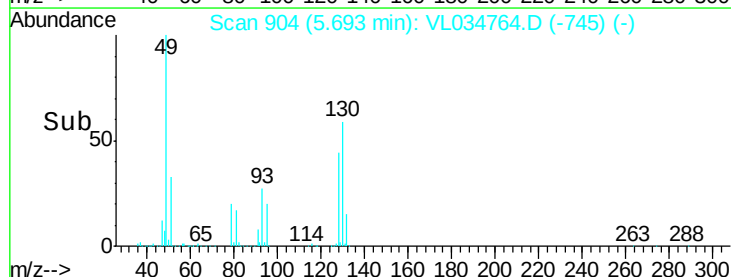
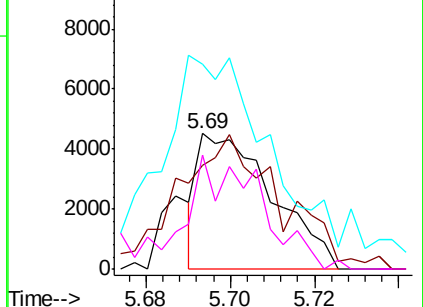


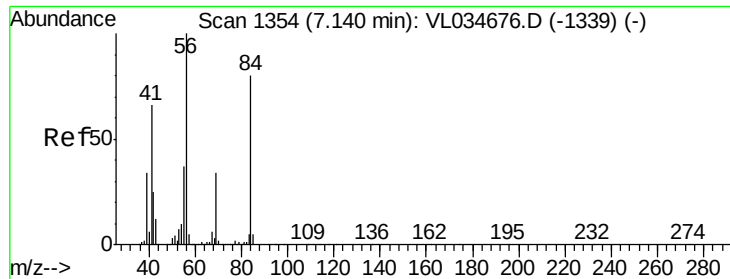
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

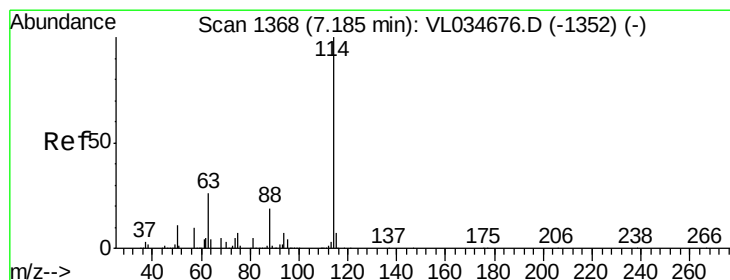
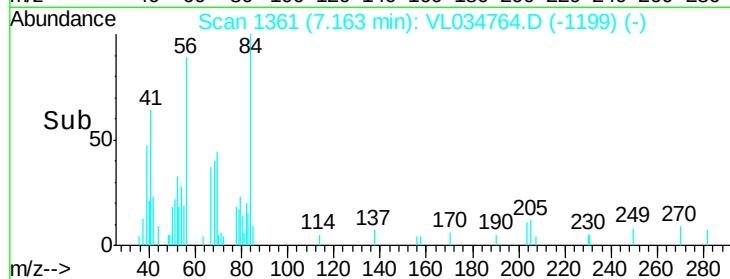
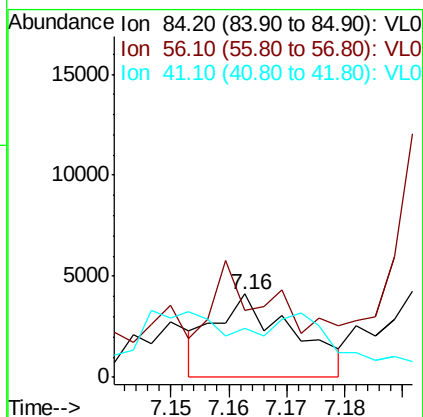
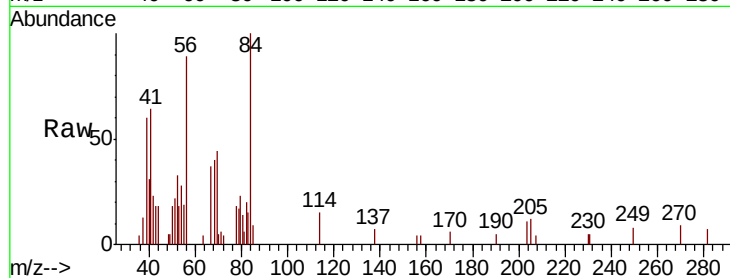




#30
Cyclohexane
Concen: 0.059 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.02 min
Lab File: VL034764.D
Acq: 3 Mar 2020 15:10

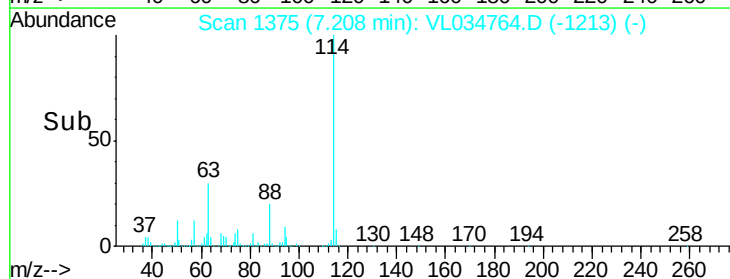
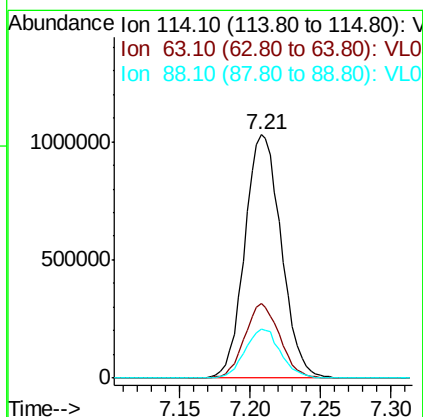
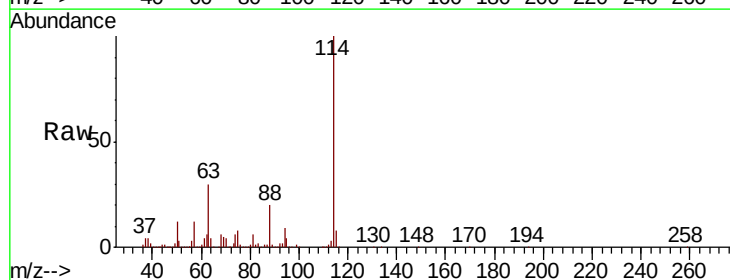
Instrument :
MSVOA_L
ClientSampleId :
IA-3-4DUP

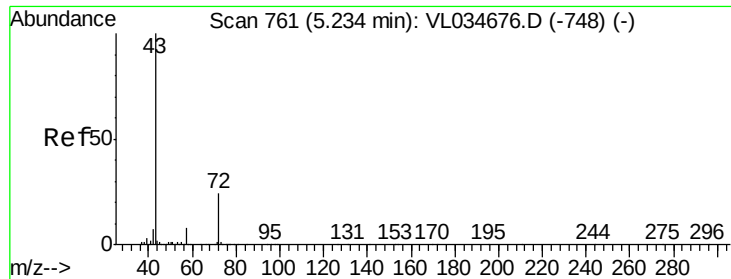
Tot Ion: 84 Resp: 3830
Ion Ratio Lower Upper
84 100
56 216.2 113.4 170.2#
41 0.0 68.2 102.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. 0.02 min
Lab File: VL034764.D
Acq: 3 Mar 2020 15:10

Tgt Ion: 114 Resp: 1860443
Ion Ratio Lower Upper
114 100
63 29.7 22.9 34.3
88 19.7 15.8 23.6

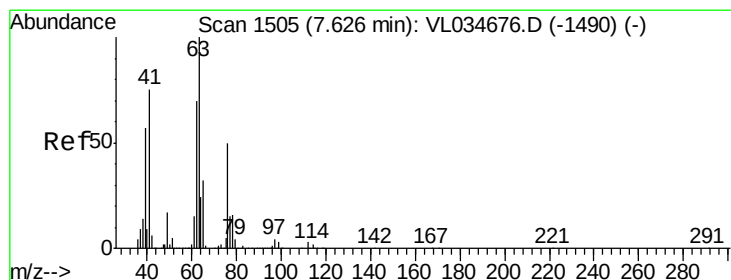
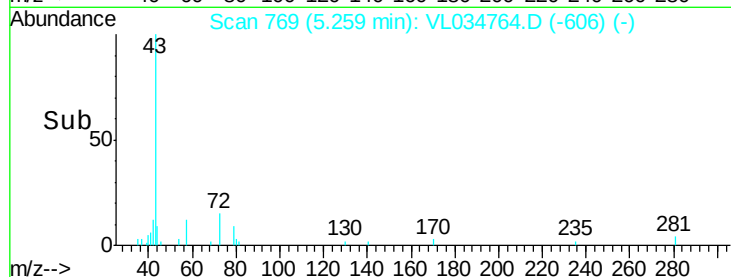
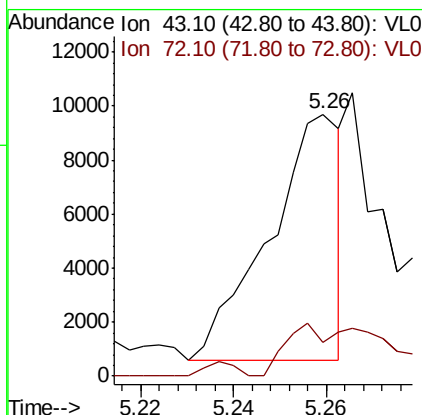
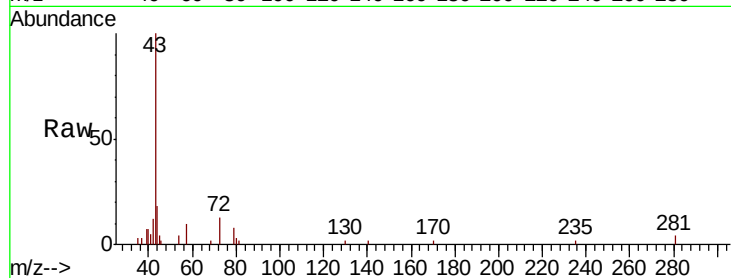




#34
 2-Butanone
 Concen: 0.083 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.03 min
 Lab File: VL034764.D
 Acq: 3 Mar 2020 15:10

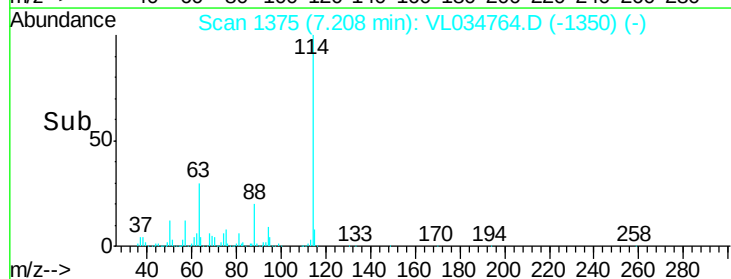
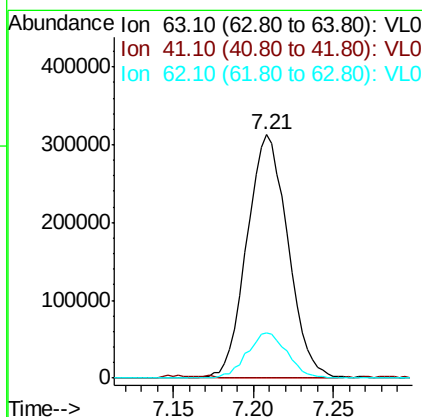
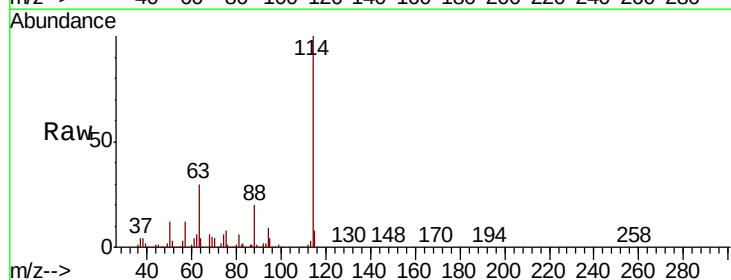
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3-4DUP

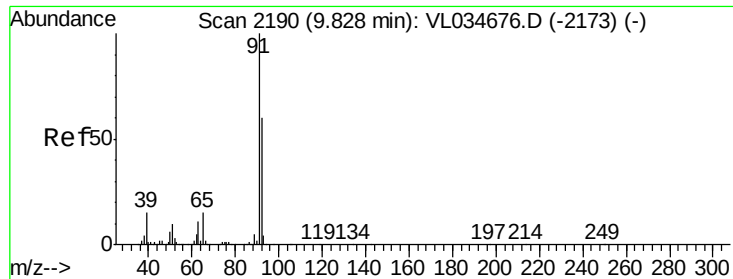
Tot Ion: 43 Resp: 9749
 Ion Ratio Lower Upper
 43 100
 72 36.4 18.2 27.2#



#39
 1,2-Dichloropropane
 Concen: 8.581 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.42 min
 Lab File: VL034764.D
 Acq: 3 Mar 2020 15:10

Tgt Ion: 63 Resp: 548549
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.2 90.4#
 62 18.3 56.3 84.5#





#53

Toluene

Concen: 0.030 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. 0.03 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

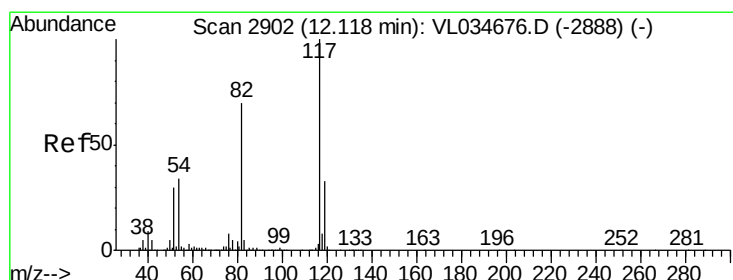
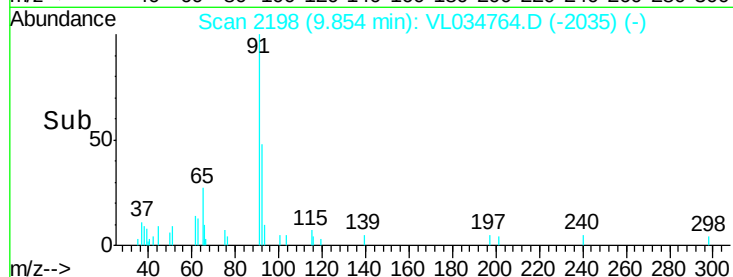
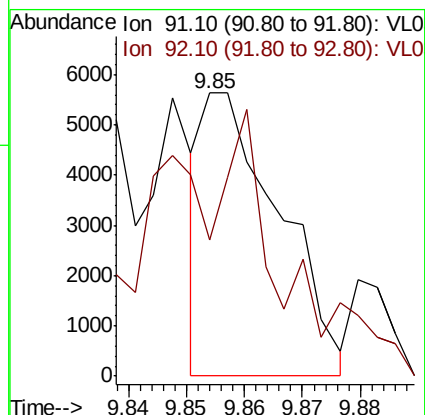
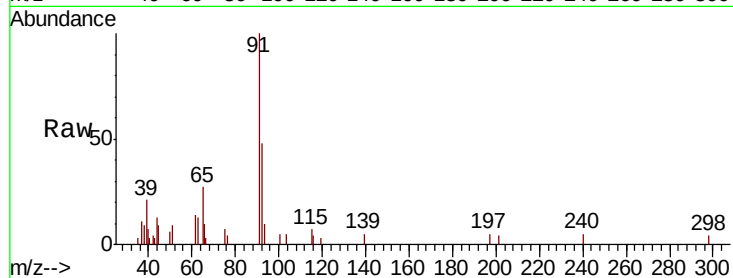
IA-3-4DUP

Tot Ion: 91 Resp: 5189

Ion Ratio Lower Upper

91 100

92 165.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2910

Delta R.T. 0.03 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

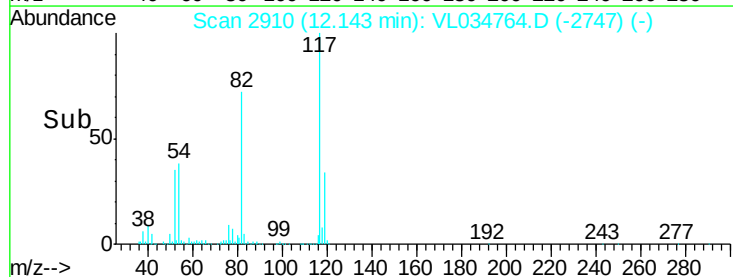
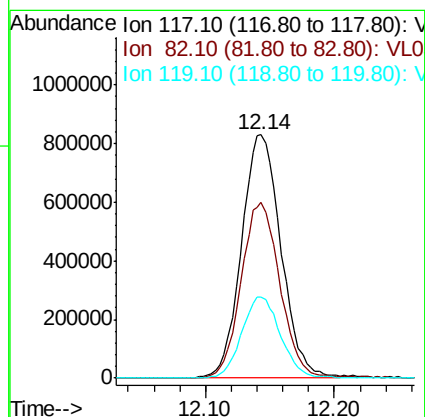
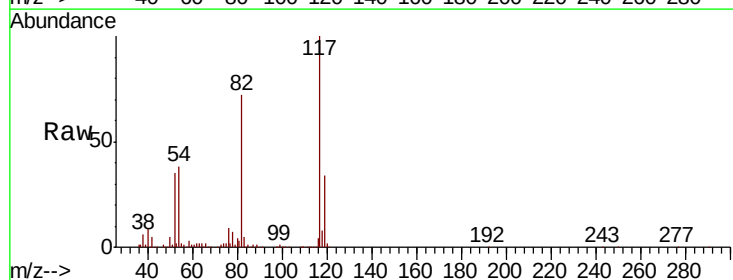
Tgt Ion: 117 Resp: 1768812

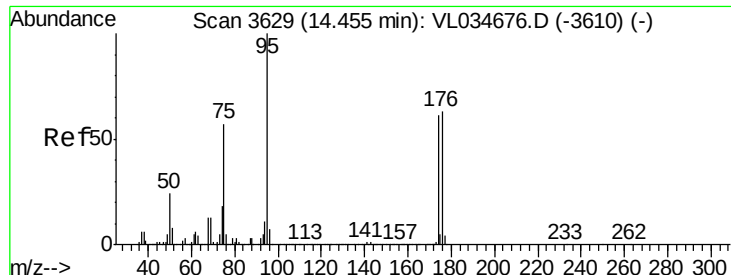
Ion Ratio Lower Upper

117 100

82 71.5 54.1 81.1

119 33.2 27.6 41.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.567 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. 0.03 min

Lab File: VL034764.D

Acq: 3 Mar 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

IA-3-4DUP

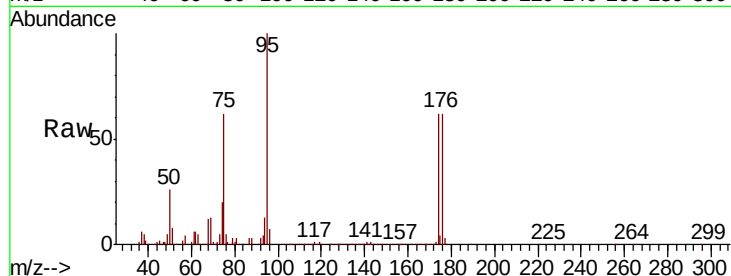
Tot Ion: 95 Resp: 1532543

Ion Ratio Lower Upper

95 100

174 65.0 50.7 76.1

175 4.5 3.9 5.9



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

