

Data File : VL034740.D
Acq On : 28 Feb 2020 17:08
Operator : SY/AP
Sample : L1662-10
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Quant Time: Mar 02 04:33:30 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	5.67	49	1009078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2070421	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2046600	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1766310	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

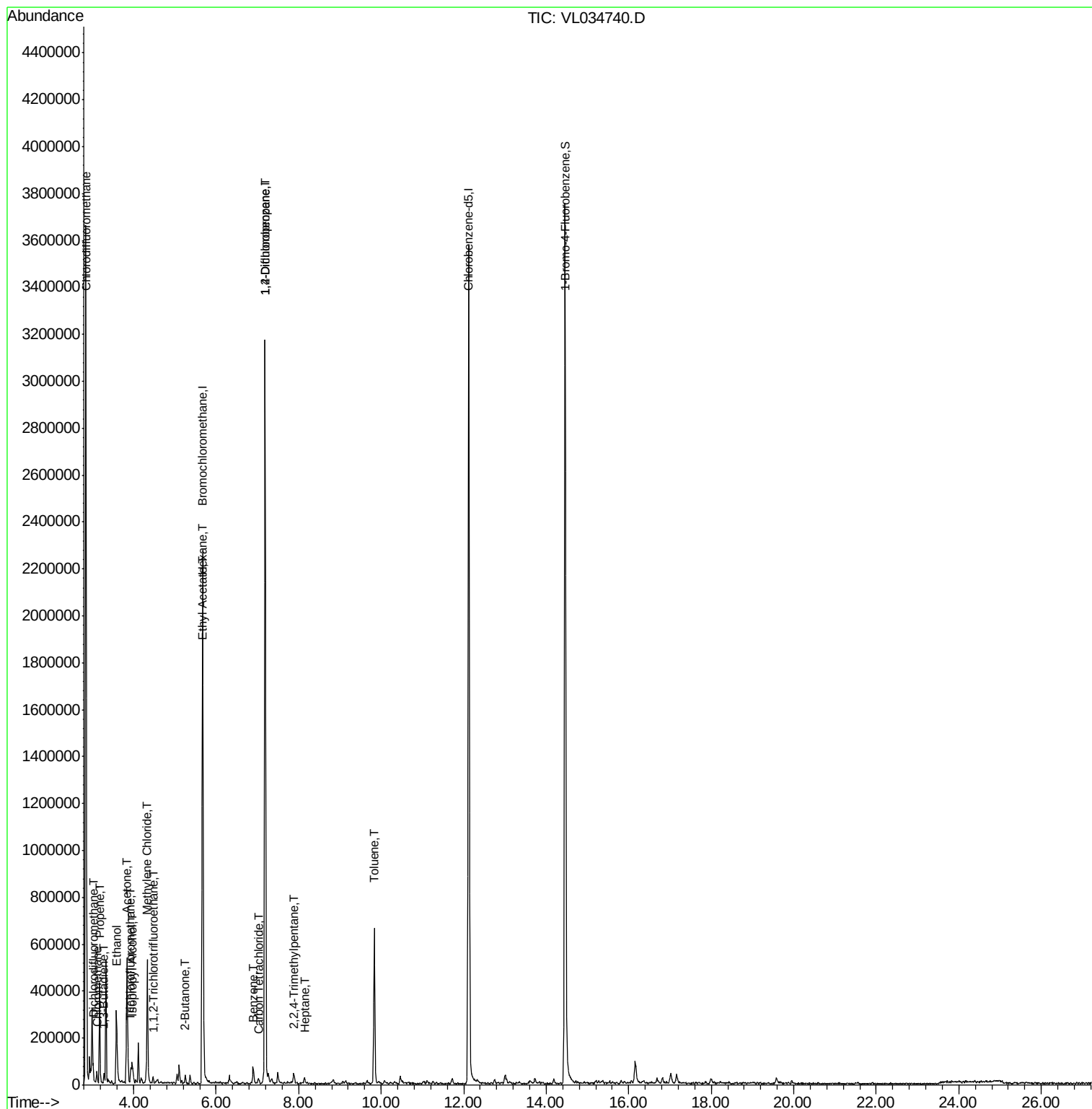
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	46445	0.292	ppbv	99
3) Chlorodifluoromethane	2.85	51	3900	0.036	ppbv	99
4) Chloromethane	3.11	50	33717	0.553	ppbv	96
9) Propene	3.18	41	99995	2.197	ppbv	99
10) Heptane	8.14	43	4260	0.036	ppbv #	1
11) Trichlorofluoromethane	3.93	101	41839	0.300	ppbv #	76
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4520	0.046	ppbv #	69
13) Ethanol	3.58	45	338427	23.534	ppbv	96
15) Acetone	3.83	43	552059	4.801	ppbv	95
16) 1,3-Butadiene	3.28	39	7890	0.148	ppbv #	67
19) Isopropyl Alcohol	3.96	45	91605	1.337	ppbv #	87
20) Methylene Chloride	4.33	84	172951	4.044	ppbv	96
25) Ethyl Acetate	5.69	43	83623	0.411	ppbv #	84
26) Hexane	5.68	57	104349	1.112	ppbv #	43
34) 2-Butanone	5.25	43	34635	0.266	ppbv	96
35) Carbon Tetrachloride	7.03	117	3676	0.027	ppbv #	58
36) Benzene	6.91	78	23856	0.133	ppbv #	93
39) 1,2-Dichloropropane	7.19	63	608129	8.548	ppbv #	22
44) 2,2,4-Trimethylpentane	7.88	57	6704	0.021	ppbv #	1
53) Toluene	9.83	91	451020	2.371	ppbv	98

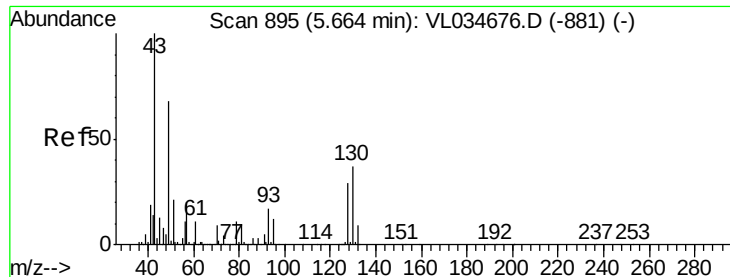
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL034740.D

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Instrument :

MSVOA_L

ClientSampleId :

AAS-ROOFTOP

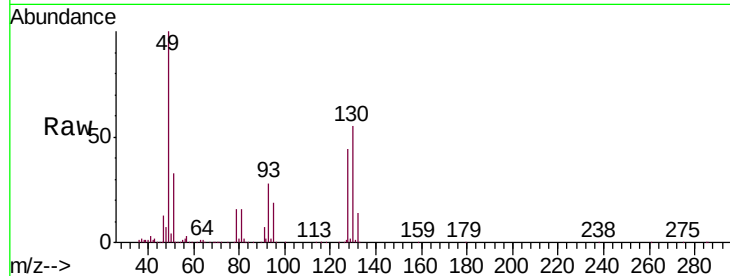
Tgt Ion: 49 Resp: 1009078

Ion Ratio Lower Upper

49 100

128 44.1 21.6 65.0

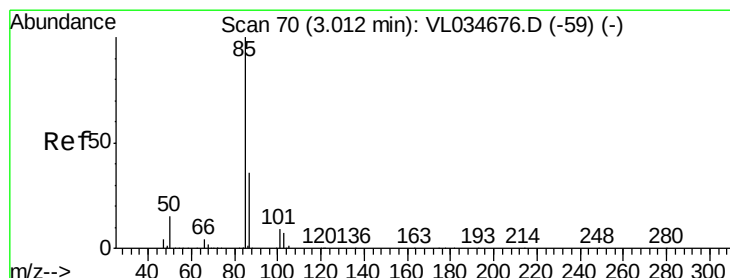
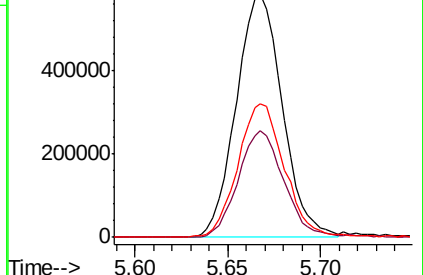
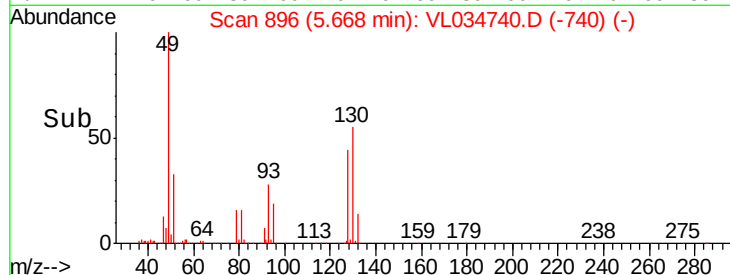
130 56.3 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.292 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL034740.D

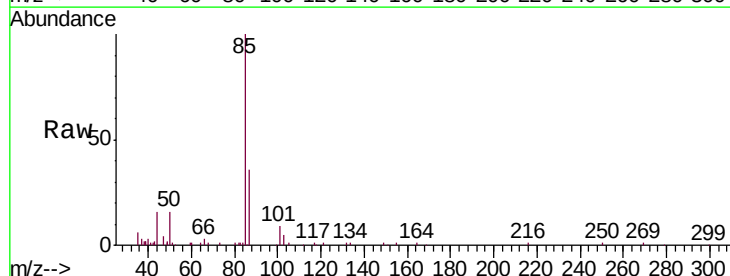
Acq: 28 Feb 2020 17:08

Tgt Ion: 85 Resp: 46445

Ion Ratio Lower Upper

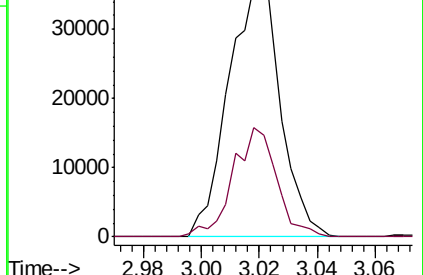
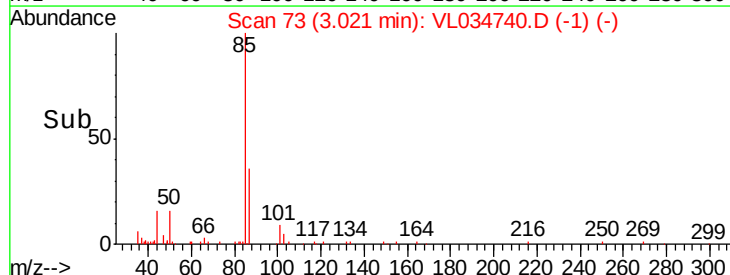
85 100

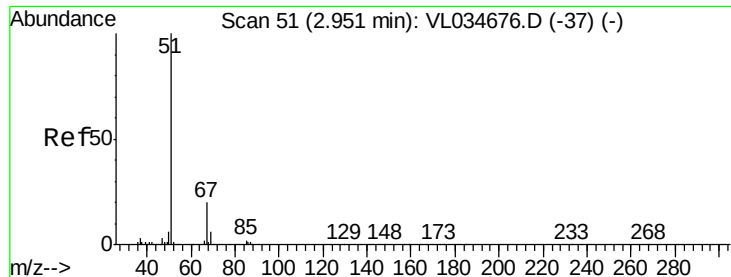
87 35.9 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.036 ppbv

RT: 2.85 min Scan# 19

Delta R.T. -0.10 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

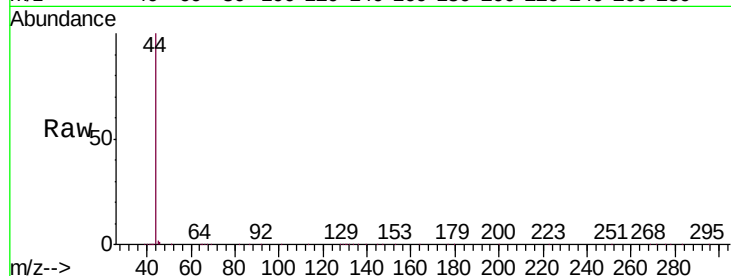
AAS-ROOFTOP

Tgt Ion: 51 Resp: 3900

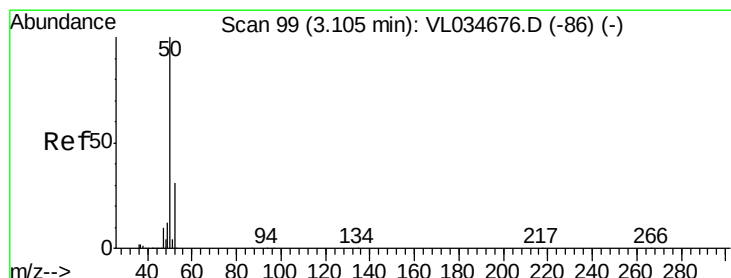
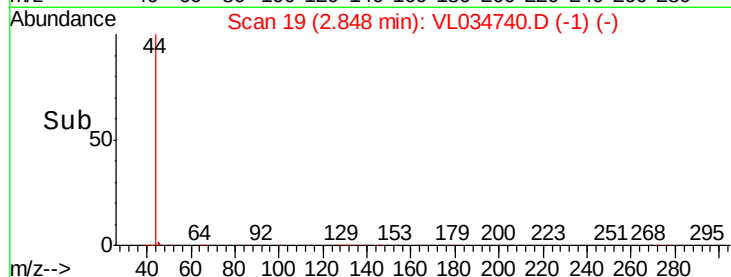
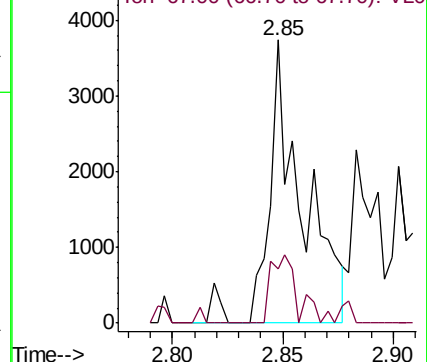
Ion Ratio Lower Upper

51 100

67 18.9 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: 0.553 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034740.D

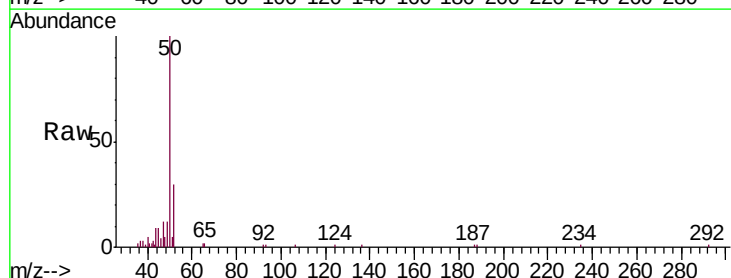
Acq: 28 Feb 2020 17:08

Tgt Ion: 50 Resp: 33717

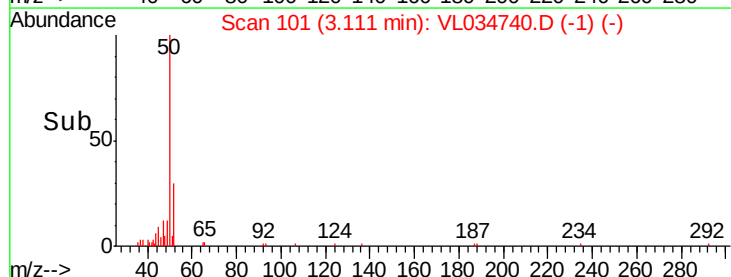
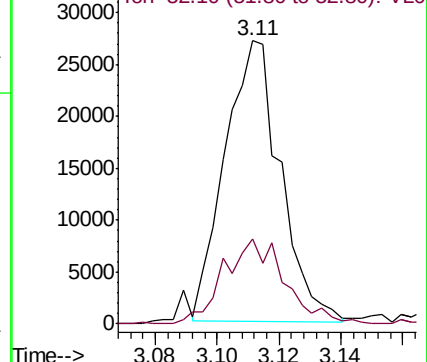
Ion Ratio Lower Upper

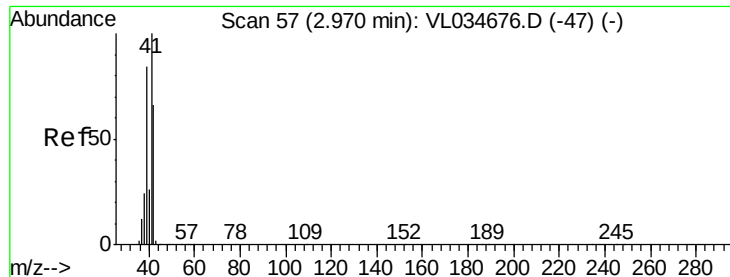
50 100

52 29.1 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.197 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.21 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

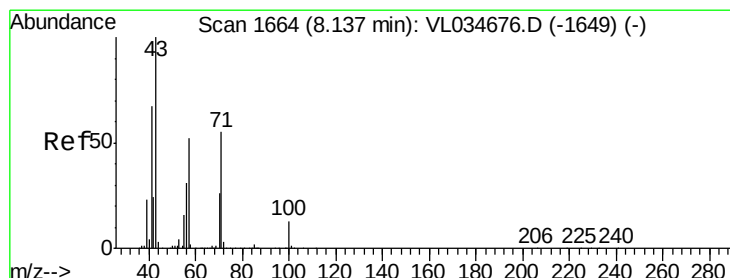
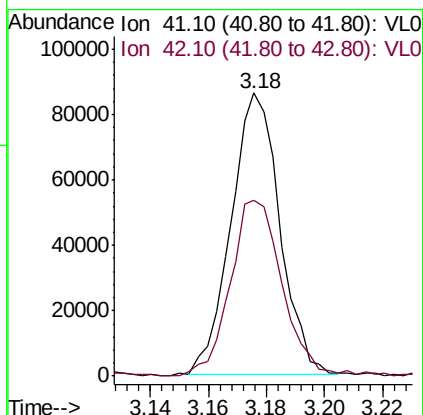
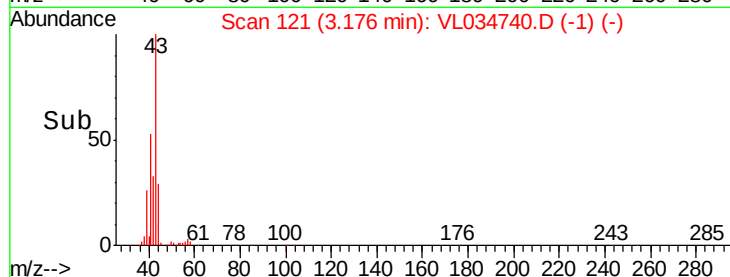
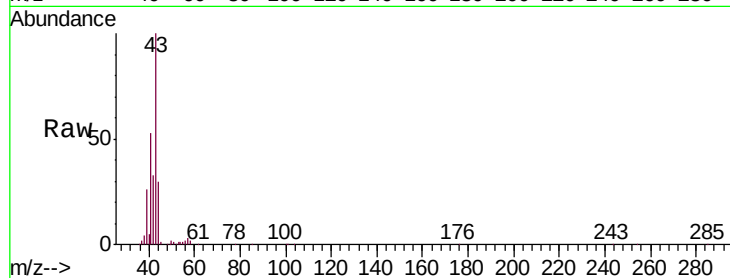
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Tgt Ion: 41 Resp: 99995

Ion Ratio Lower Upper

41 100

42 67.6 54.9 82.3



#10

Heptane

Concen: 0.036 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL034740.D

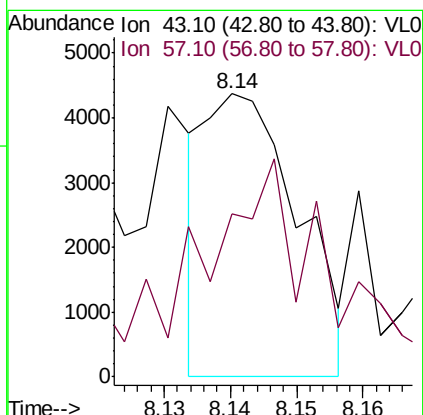
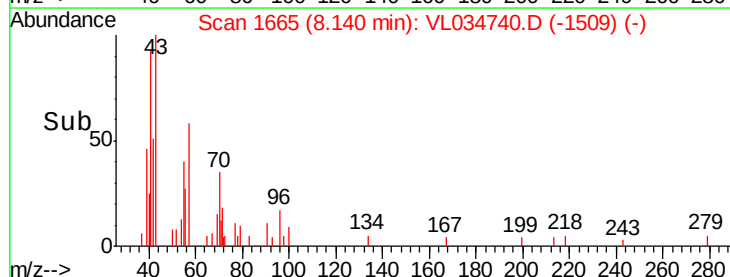
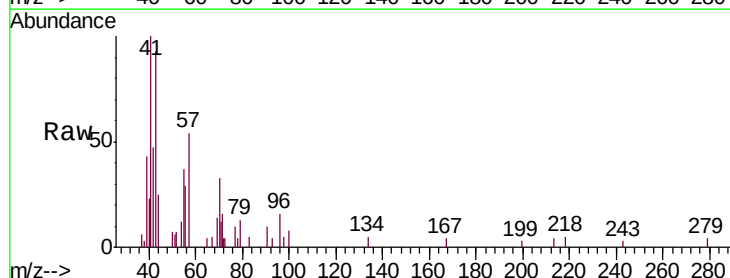
Acq: 28 Feb 2020 17:08

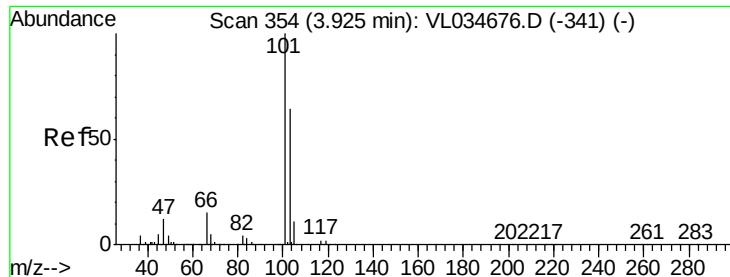
Tgt Ion: 43 Resp: 4260

Ion Ratio Lower Upper

43 100

57 122.7 41.0 61.6#

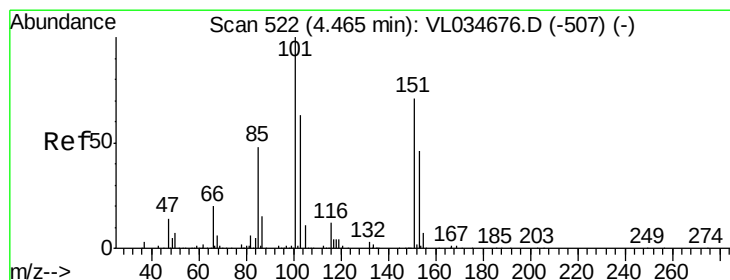
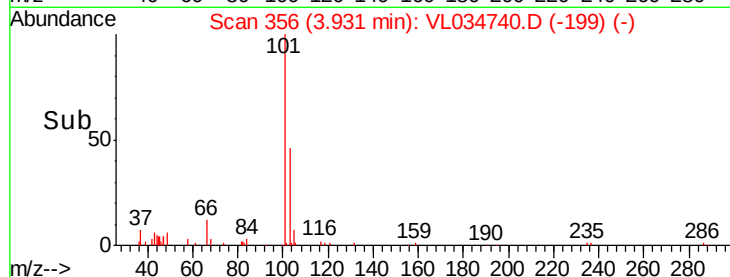
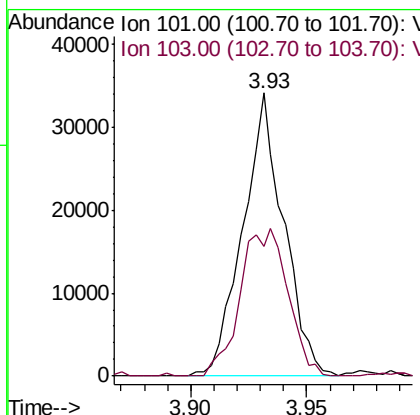
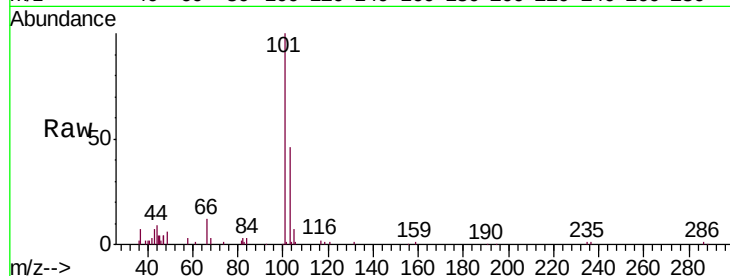




#11
 Trichlorofluoromethane
 Concen: 0.300 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VL034740.D
 Acq: 28 Feb 2020 17:08

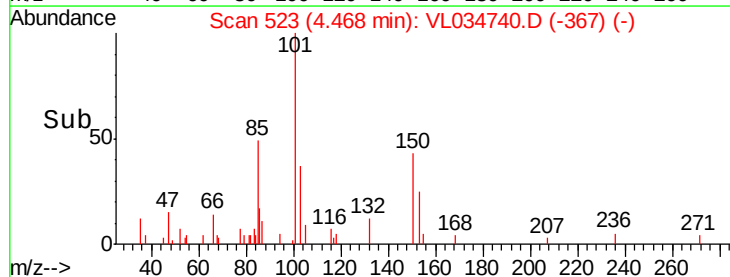
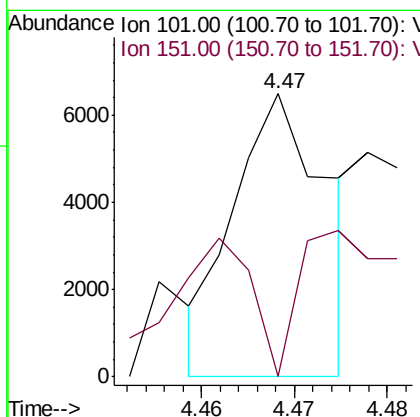
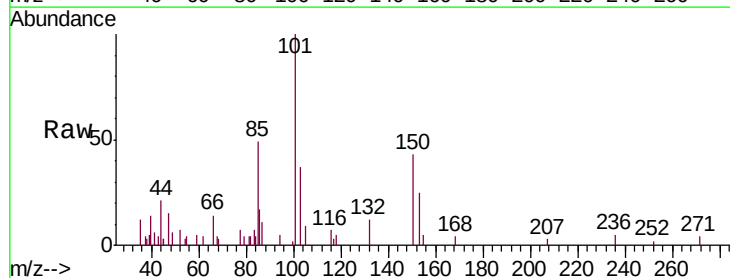
Instrument :
 MSVOA_L
 ClientSampleId :
 AAS-ROOFTOP

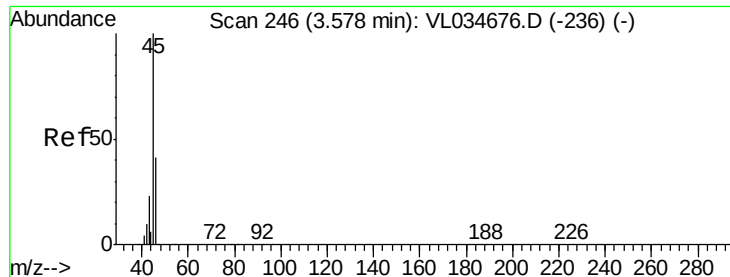
Tgt Ion:101 Resp: 41839
 Ion Ratio Lower Upper
 101 100
 103 45.2 51.2 76.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.046 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: VL034740.D
 Acq: 28 Feb 2020 17:08

Tgt Ion:101 Resp: 4520
 Ion Ratio Lower Upper
 101 100
 151 44.5 55.8 83.6#





#13

Ethanol

Concen: 23.534 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.00 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

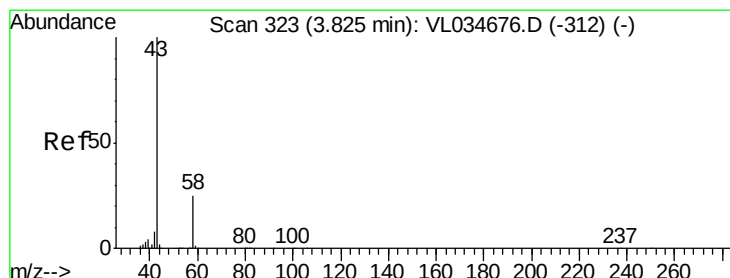
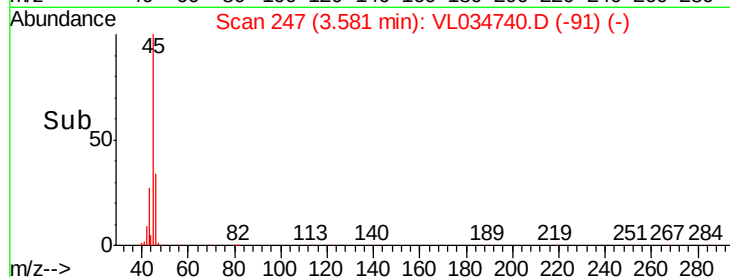
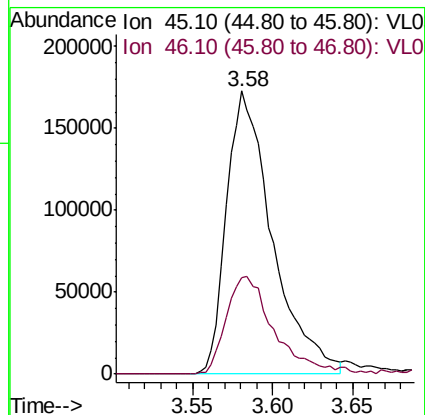
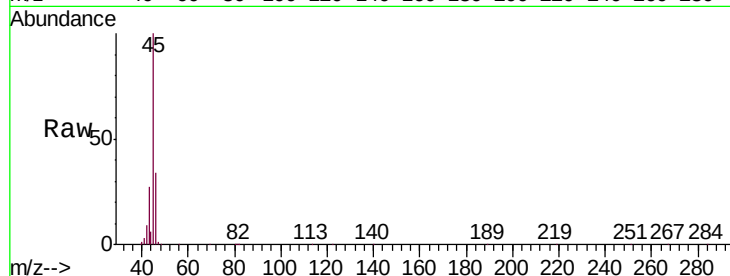
AAS-ROOFTOP

Tgt Ion: 45 Resp: 338427

Ion Ratio Lower Upper

45 100

46 36.1 15.4 61.4



#15

Acetone

Concen: 4.801 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034740.D

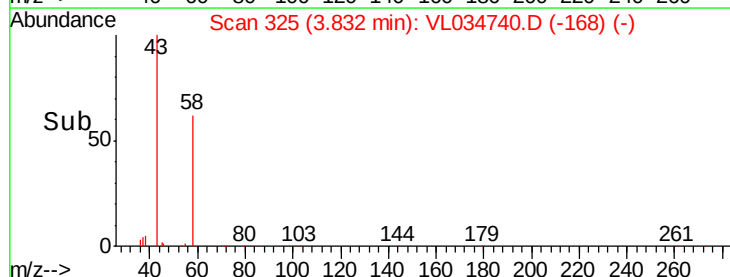
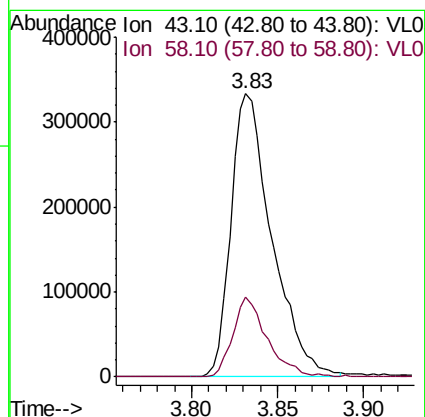
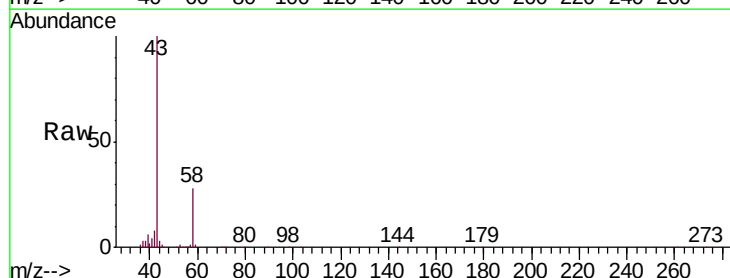
Acq: 28 Feb 2020 17:08

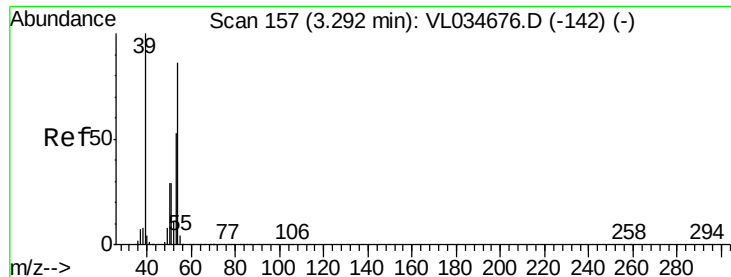
Tgt Ion: 43 Resp: 552059

Ion Ratio Lower Upper

43 100

58 24.1 21.4 32.0





#16

1,3-Butadiene

Concen: 0.148 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.01 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

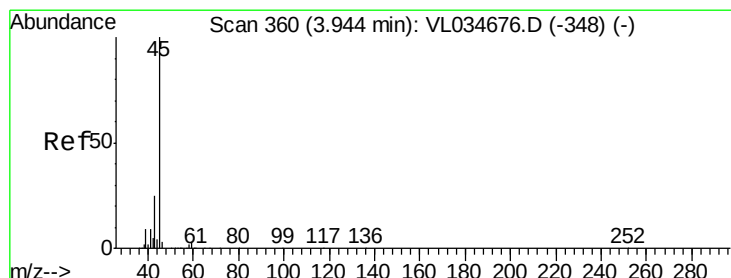
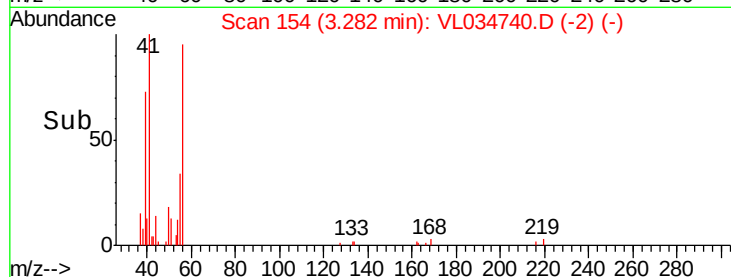
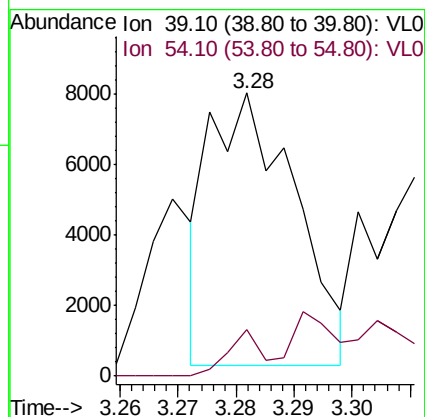
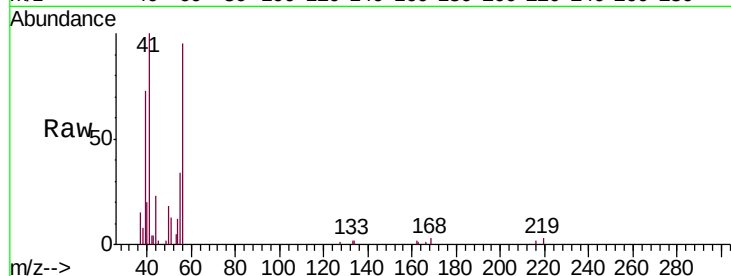
AAS-ROOFTOP

Tgt Ion: 39 Resp: 7890

Ion Ratio Lower Upper

39 100

54 54.3 67.0 100.6#



#19

Isopropyl Alcohol

Concen: 1.337 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034740.D

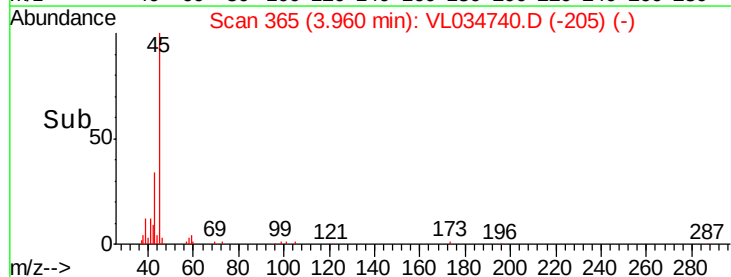
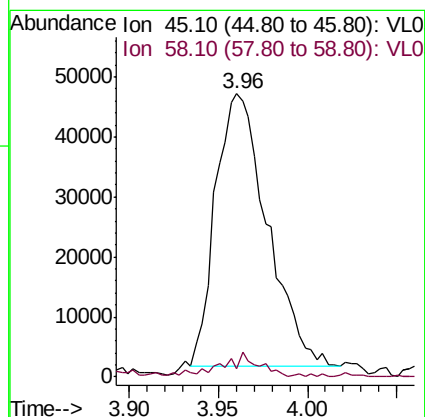
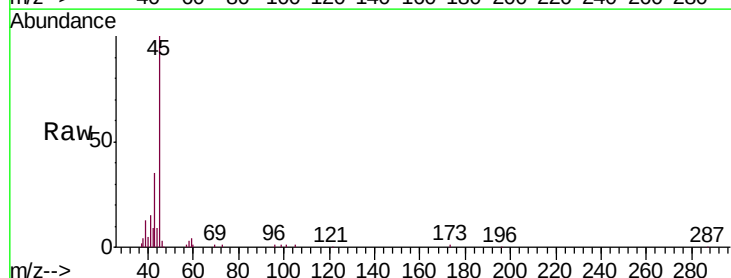
Acq: 28 Feb 2020 17:08

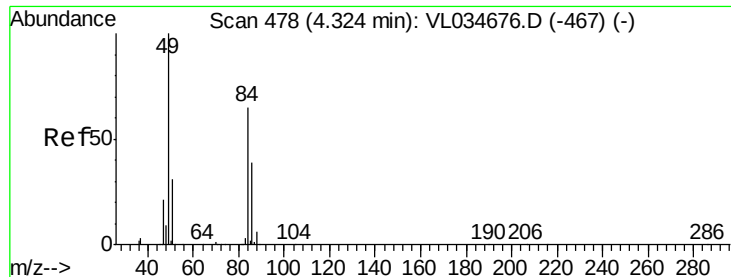
Tgt Ion: 45 Resp: 91605

Ion Ratio Lower Upper

45 100

58 6.8 1.8 2.6#

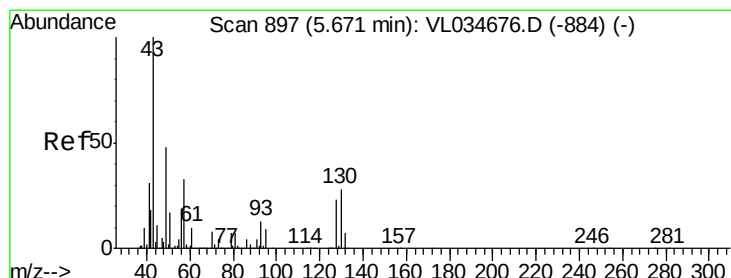
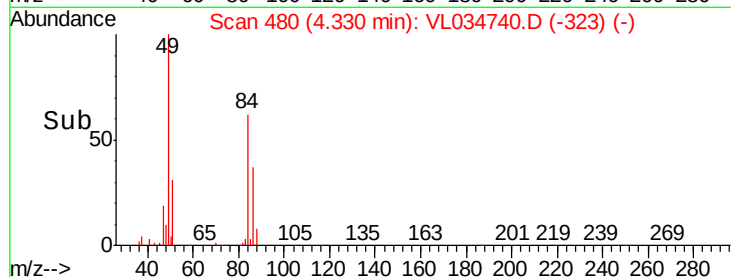
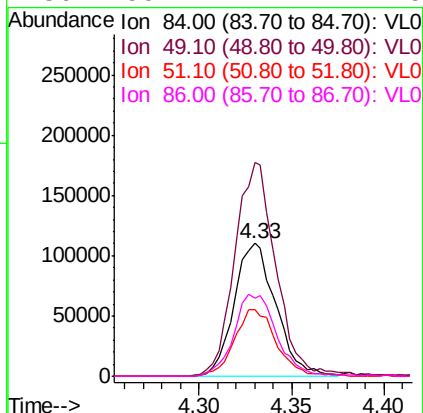
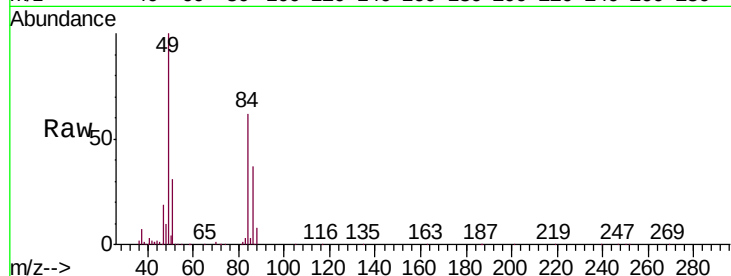




#20
Methylene Chloride
Concen: 4.044 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

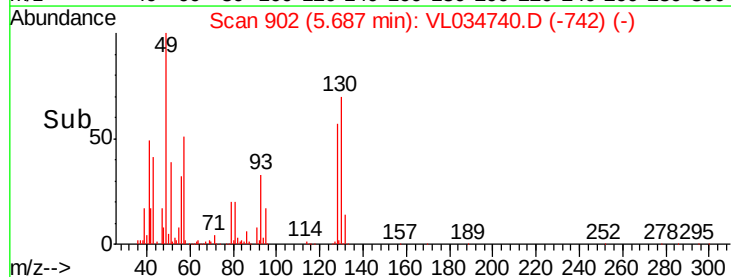
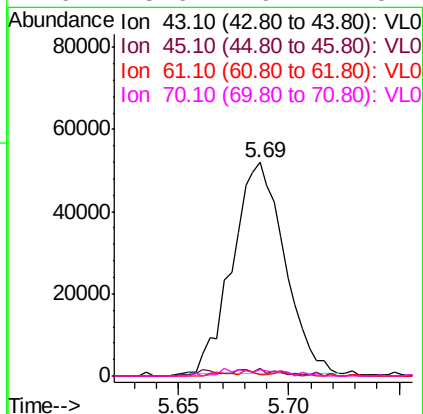
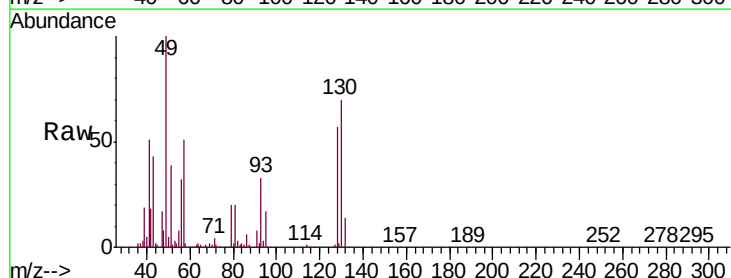
Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

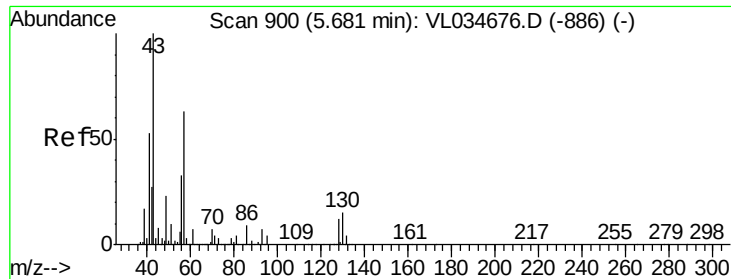
Tgt Ion:	84	Resp:	172951
Ion	Ratio	Lower	Upper
84	100		
49	161.2	122.8	184.2
51	49.7	38.6	58.0
86	59.1	47.7	71.5



#25
Ethyl Acetate
Concen: 0.411 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.02 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion:	43	Resp:	83623
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.2	12.4#
61	2.3	7.8	11.6#
70	3.6	6.1	9.1#

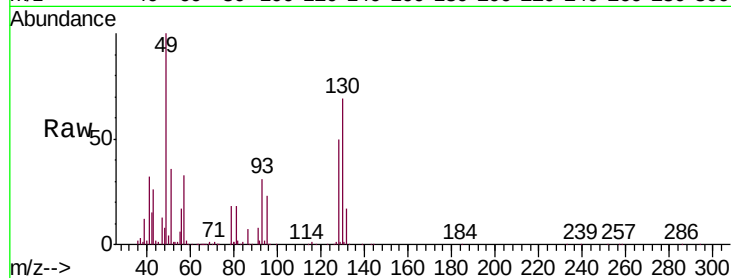




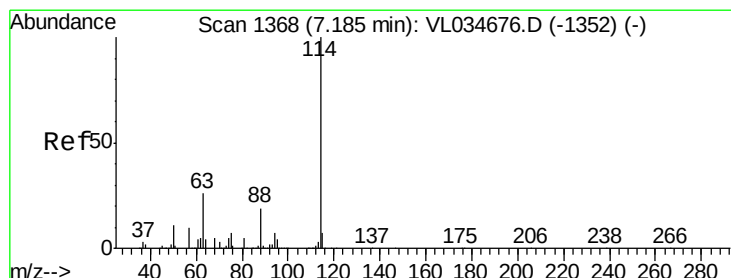
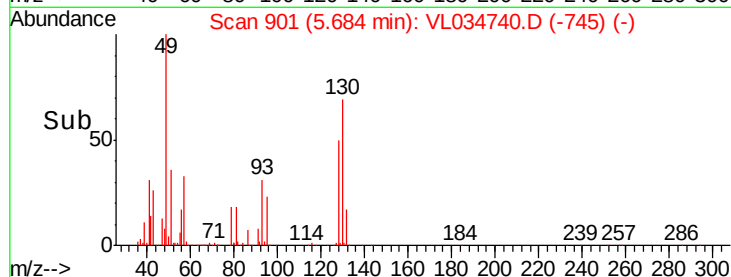
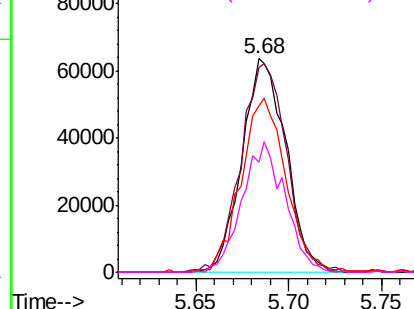
#26
Hexane
Concen: 1.112 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tgt Ion: 57 Resp: 104349
Ion Ratio Lower Upper
57 100
41 102.1 70.3 105.5
43 83.9 177.0 265.4#
56 59.6 42.6 64.0

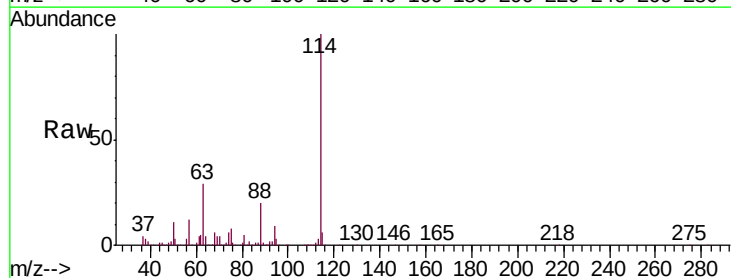


Abundance Ion 57.10 (56.80 to 57.80): VL0
100000
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

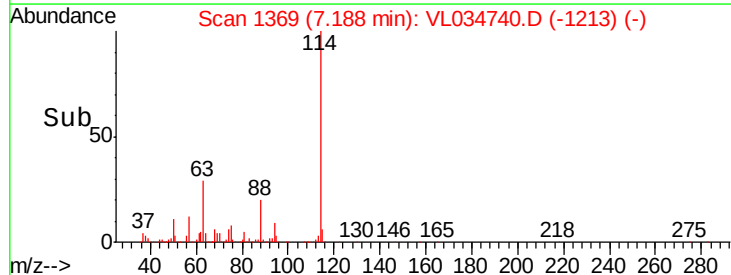
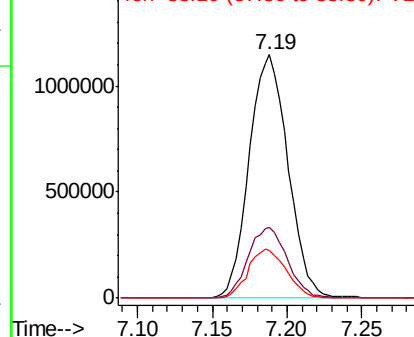


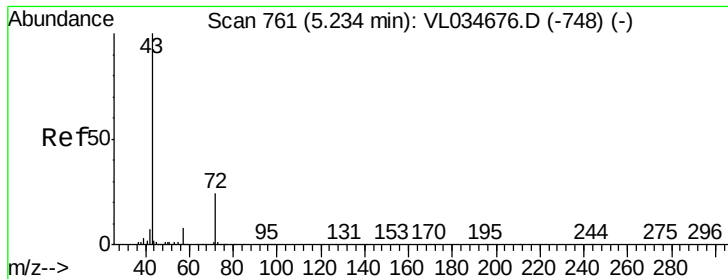
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion: 114 Resp: 2070421
Ion Ratio Lower Upper
114 100
63 29.5 22.9 34.3
88 19.9 15.8 23.6



Abundance Ion 114.10 (113.80 to 114.80): V
1500000
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.266 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

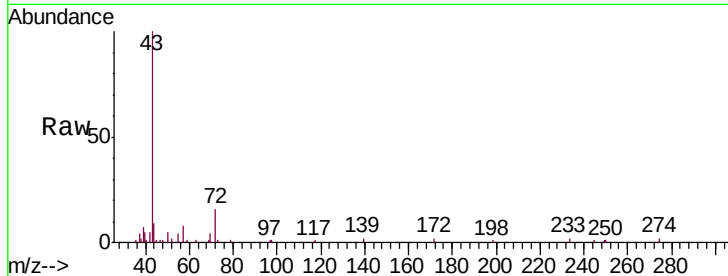
AAS-ROOFTOP

Tgt Ion: 43 Resp: 34635

Ion Ratio Lower Upper

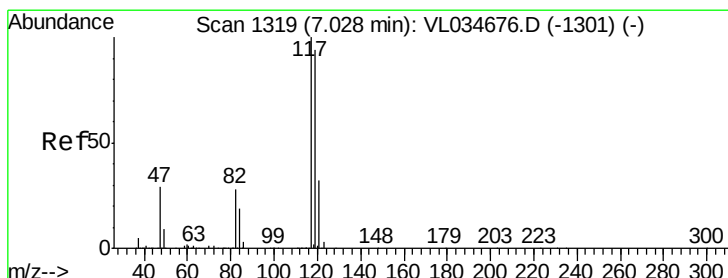
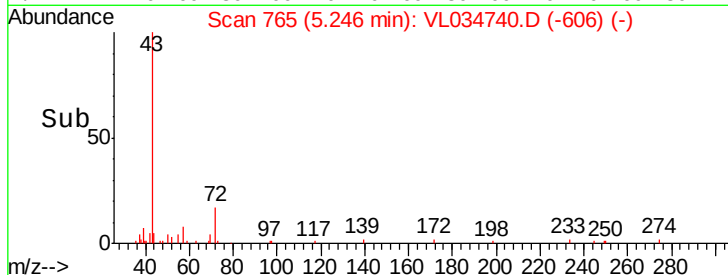
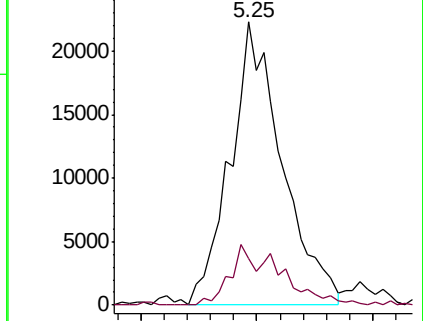
43 100

72 20.7 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.027 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

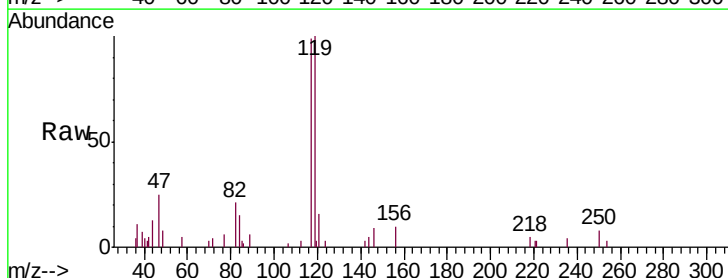
Tgt Ion: 117 Resp: 3676

Ion Ratio Lower Upper

117 100

119 58.8 75.5 113.3#

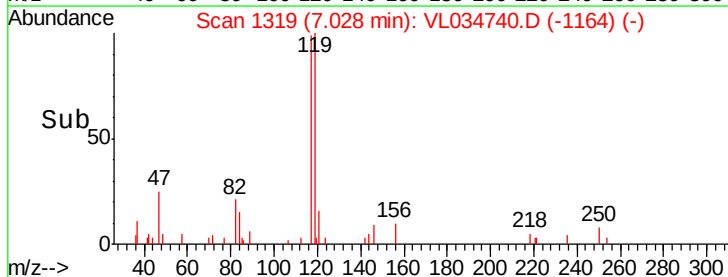
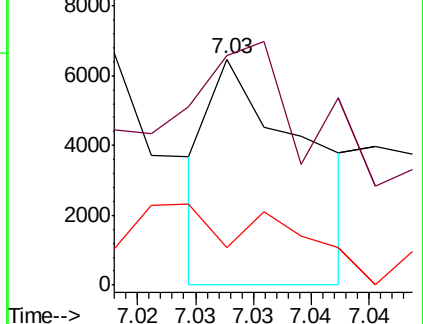
121 0.1 25.4 38.0#

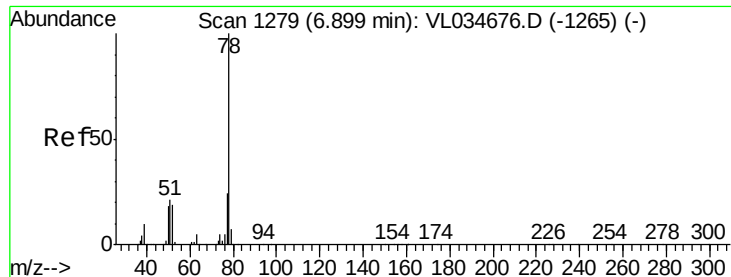


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.133 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.01 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

AAS-ROOFTOP

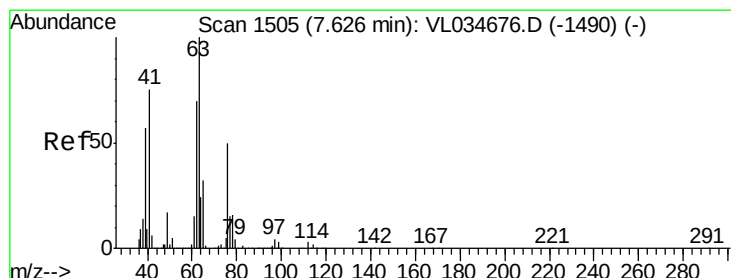
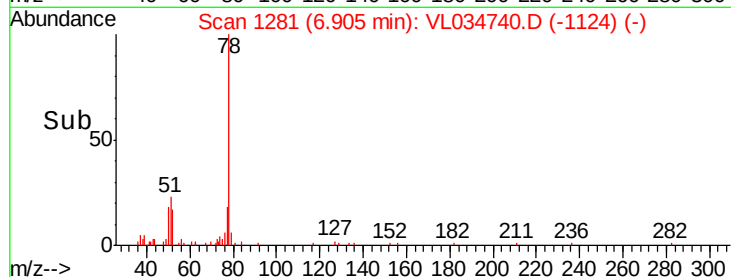
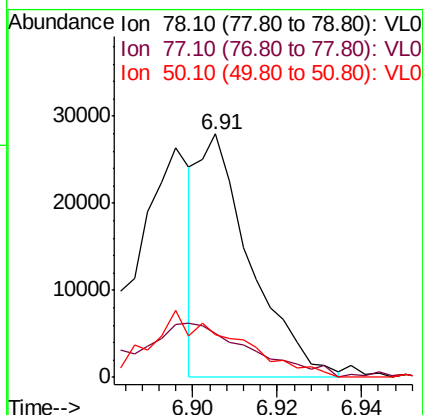
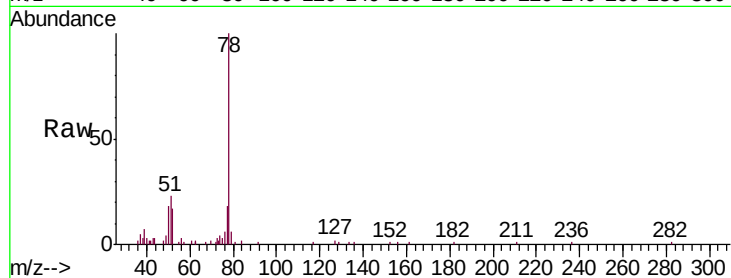
Tgt Ion: 78 Resp: 23856

Ion Ratio Lower Upper

78 100

77 18.6 19.5 29.3#

50 18.2 14.6 21.8



#39

1,2-Dichloropropane

Concen: 8.548 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL034740.D

Acq: 28 Feb 2020 17:08

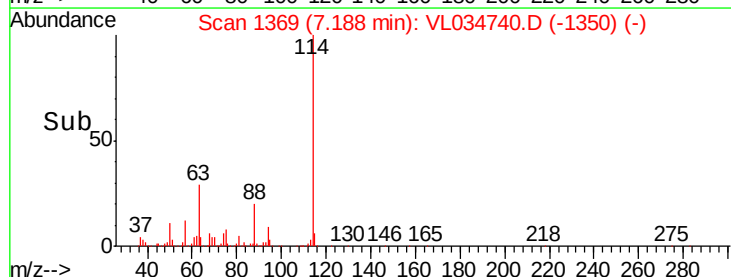
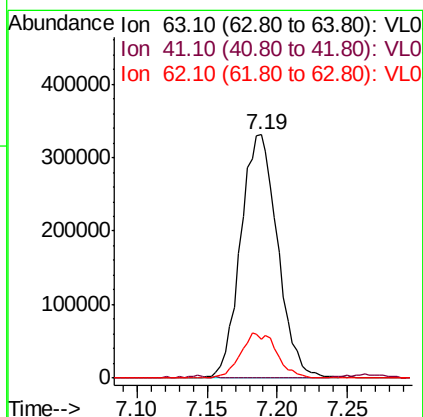
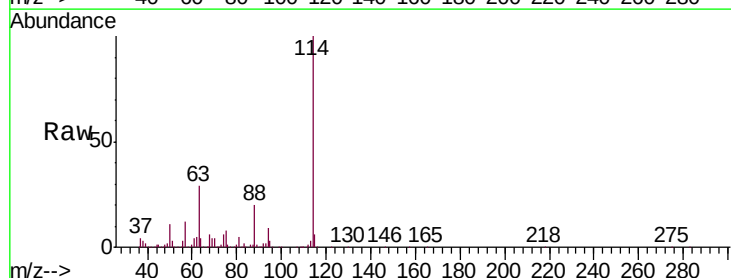
Tgt Ion: 63 Resp: 608129

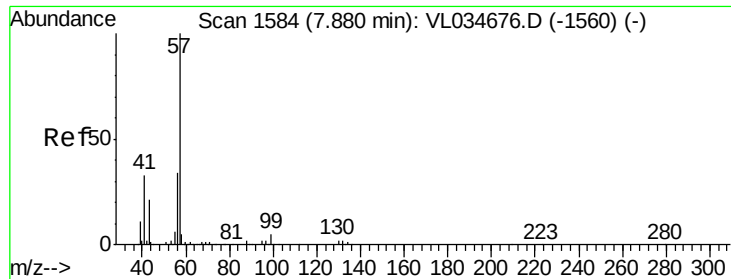
Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

62 15.9 56.3 84.5#

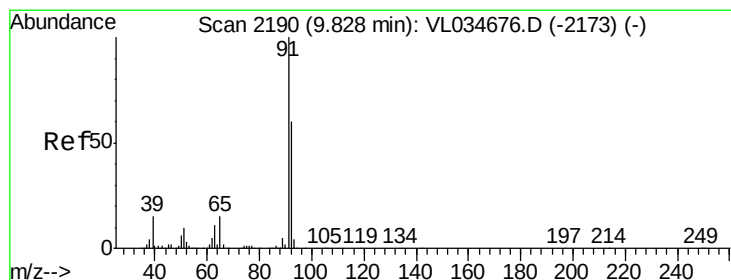
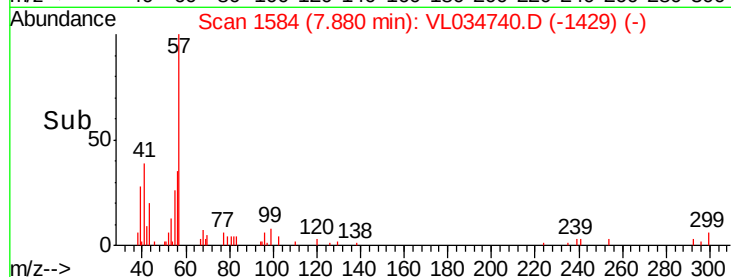
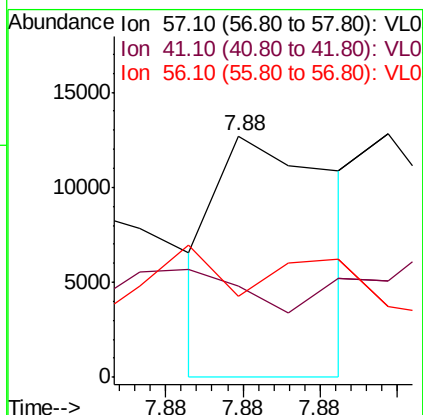
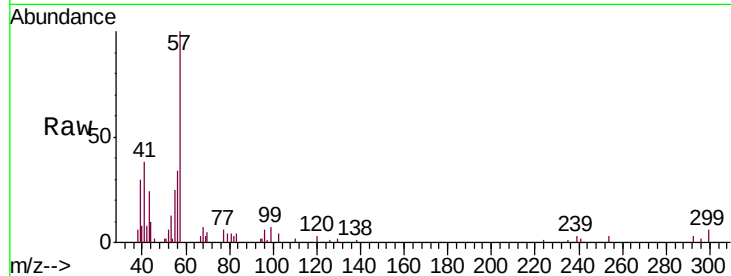




#44
 2,2,4-Trimethylpentane
 Concen: 0.021 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VL034740.D
 Acq: 28 Feb 2020 17:08

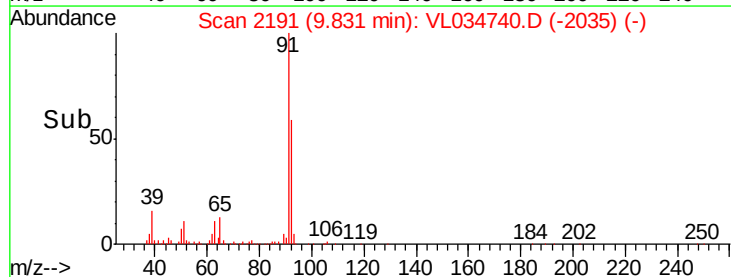
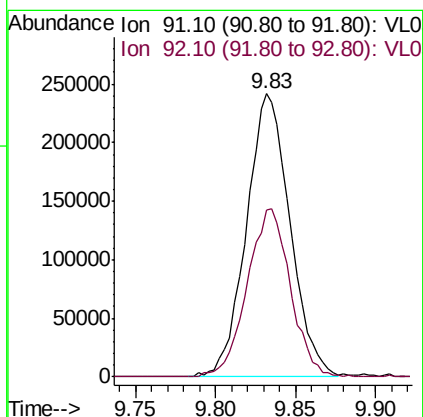
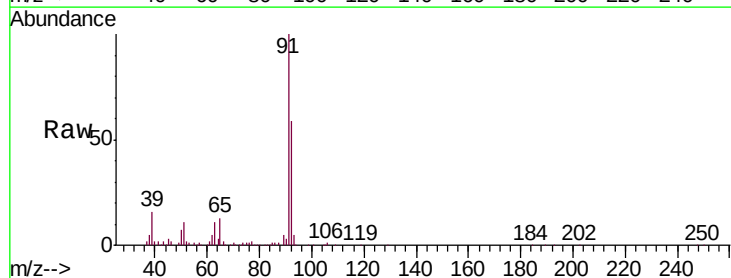
Instrument :
 MSVOA_L
 ClientSampleId :
 AAS-ROOFTOP

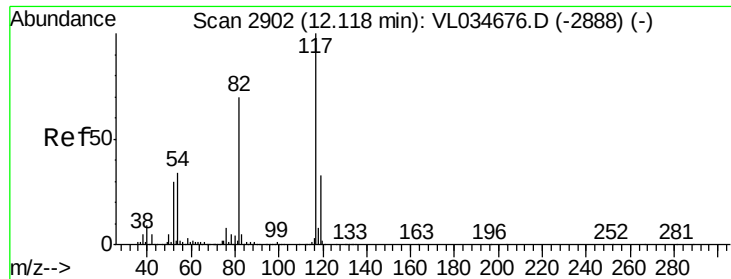
Tgt Ion: 57 Resp: 6704
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.0 39.0#
 56 198.4 25.6 38.4#



#53
 Toluene
 Concen: 2.371 ppbv
 RT: 9.83 min Scan# 2191
 Delta R.T. 0.00 min
 Lab File: VL034740.D
 Acq: 28 Feb 2020 17:08

Tgt Ion: 91 Resp: 451020
 Ion Ratio Lower Upper
 91 100
 92 58.9 48.5 72.7

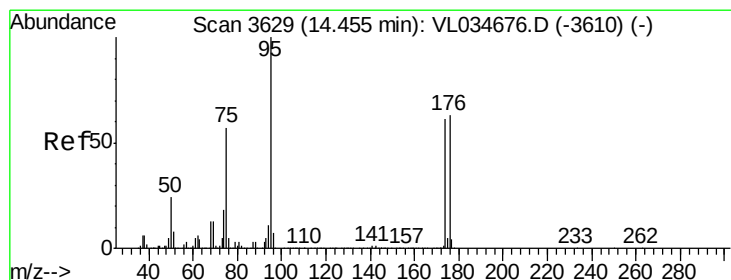
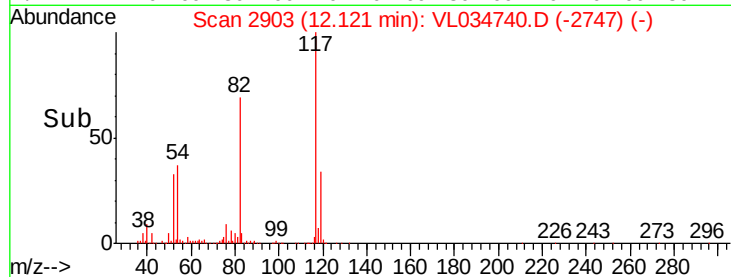
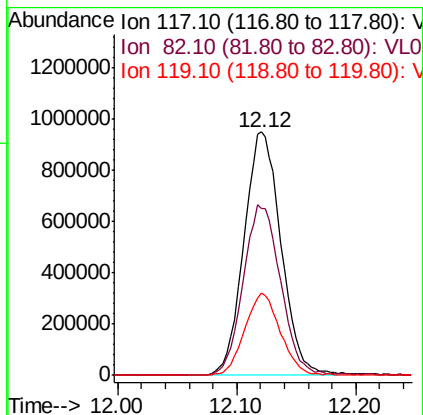
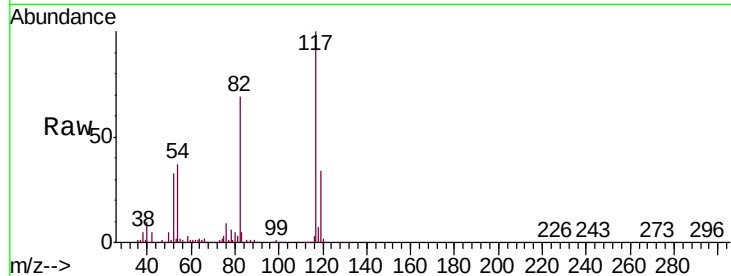




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
AAS-ROOFTOP

Tgt Ion: 117 Resp: 2046600
Ion Ratio Lower Upper
117 100
82 71.4 54.1 81.1
119 32.7 27.6 41.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.525 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.00 min
Lab File: VL034740.D
Acq: 28 Feb 2020 17:08

Tgt Ion: 95 Resp: 1766310
Ion Ratio Lower Upper
95 100
174 63.3 50.7 76.1
175 4.6 3.9 5.9

