

Data File : VL034632.D
Acq On : 18 Feb 2020 20:19
Operator : SY/AP
Sample : L1532-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IR-PRSSDL

Quant Time: Feb 19 06:05:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	911716	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1893075	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1878074	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 1607720 10.13 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.30%

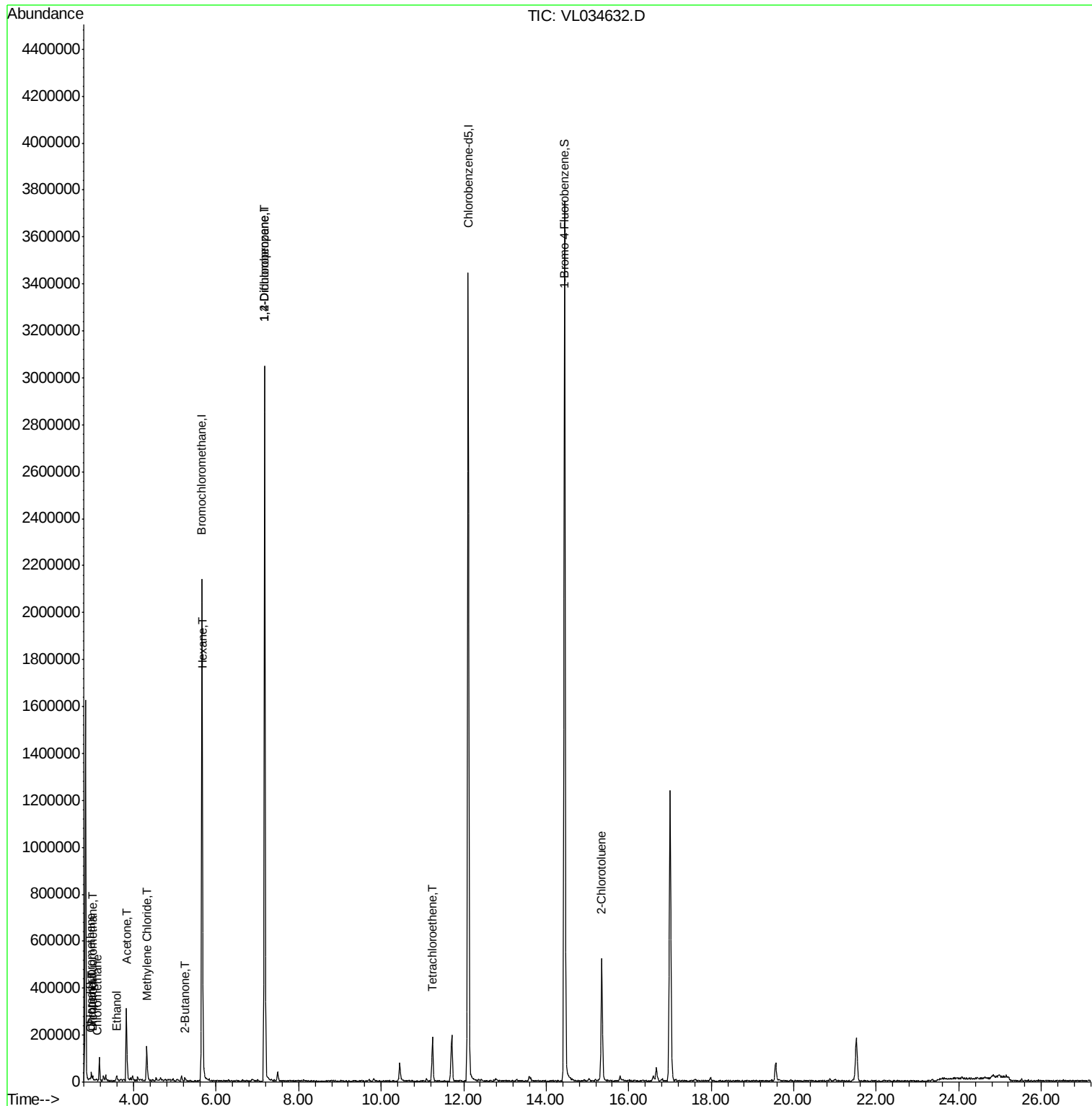
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.01	85	10187	0.051 ppbv #	82
3) Chlorodifluoromethane	2.95	51	7047	0.064 ppbv	95
4) Chloromethane	3.10	50	2750	0.041 ppbv #	66
9) Propene	2.97	41	4021	0.094 ppbv #	31
13) Ethanol	3.58	45	6081	0.529 ppbv #	38
15) Acetone	3.82	43	309865	2.313 ppbv	96
20) Methylene Chloride	4.32	84	48239	0.945 ppbv	93
26) Hexane	5.67	57	14565	0.160 ppbv #	39
34) 2-Butanone	5.24	43	5103	0.037 ppbv #	1
39) 1,2-Dichloropropane	7.18	63	549428	7.873 ppbv #	20
52) Tetrachloroethene	11.24	164	21762	0.322 ppbv #	79
71) 2-Chlorotoluene	15.35	91	126539	0.577 ppbv #	45

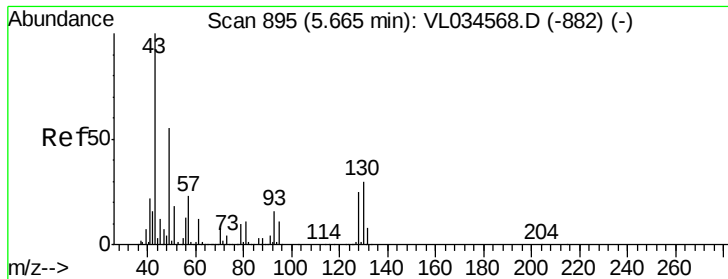
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034632.D

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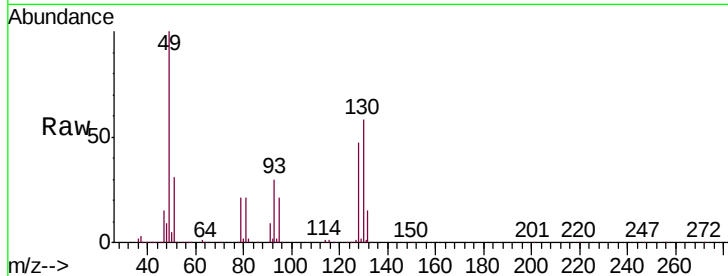
Tgt Ion: 49 Resp: 911716

Ion Ratio Lower Upper

49 100

128 47.3 22.7 68.1

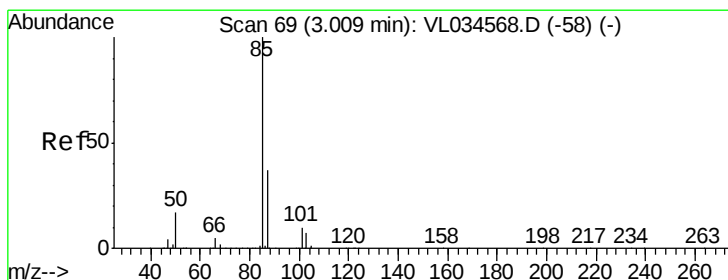
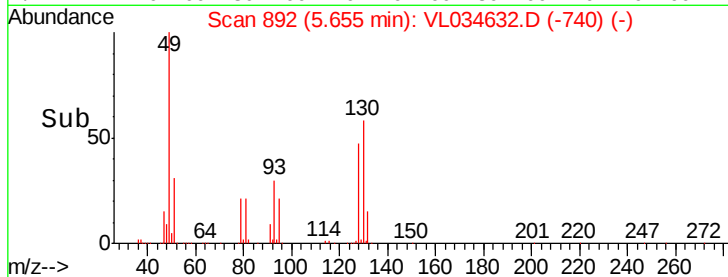
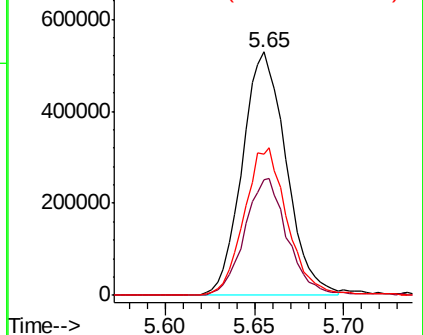
130 59.9 28.6 85.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL034632.D

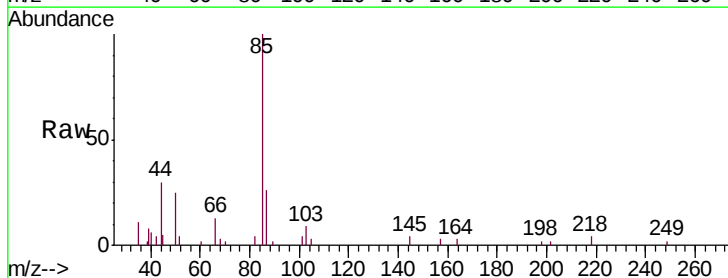
Acq: 18 Feb 2020 20:19

Tgt Ion: 85 Resp: 10187

Ion Ratio Lower Upper

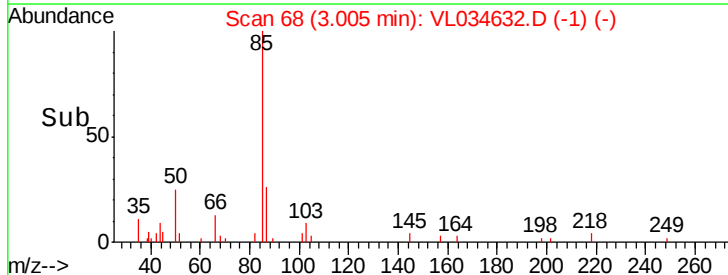
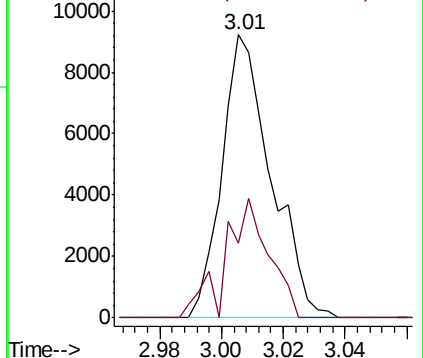
85 100

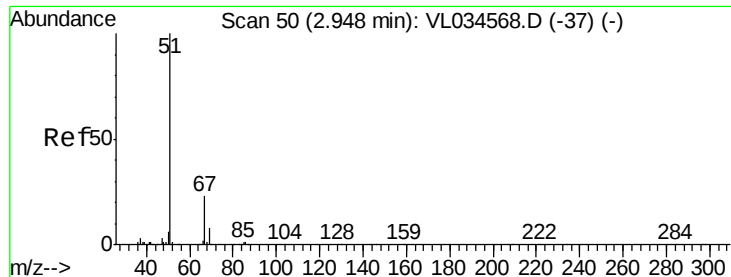
87 26.3 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.064 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

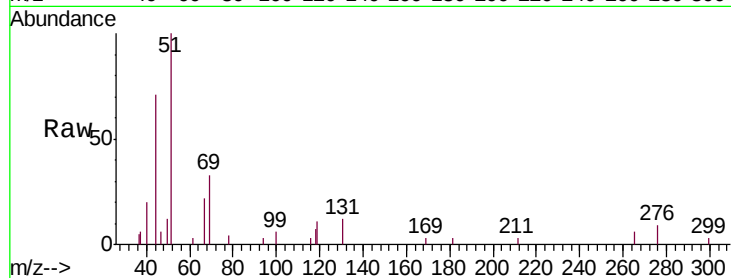
IR-PRSSDL

Tgt Ion: 51 Resp: 7047

Ion Ratio Lower Upper

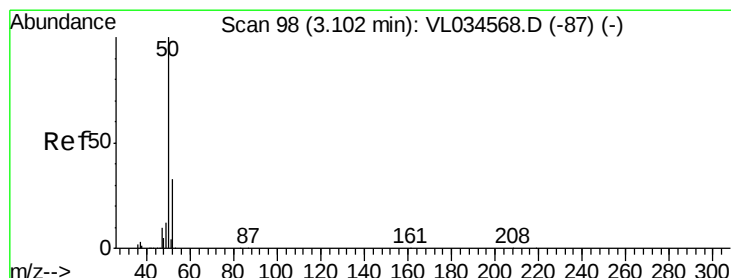
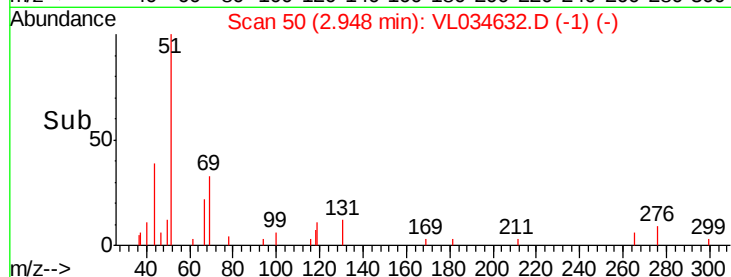
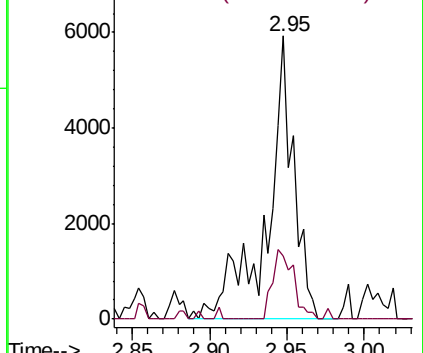
51 100

67 20.0 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: 0.041 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034632.D

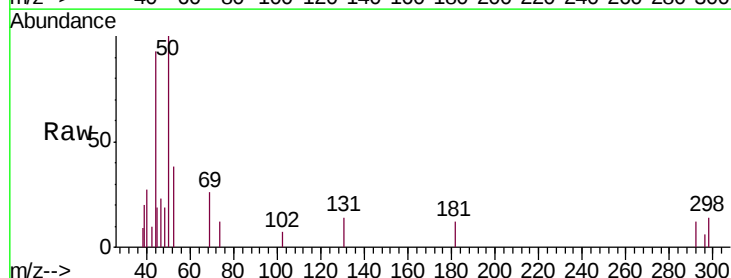
Acq: 18 Feb 2020 20:19

Tgt Ion: 50 Resp: 2750

Ion Ratio Lower Upper

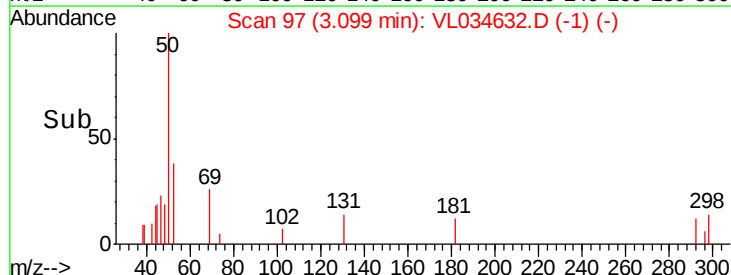
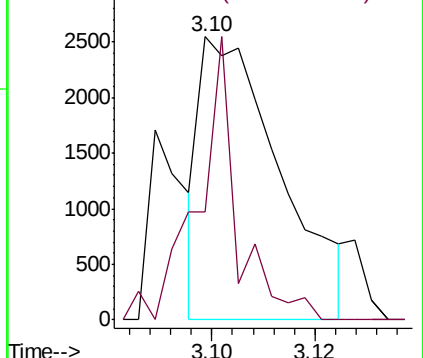
50 100

52 52.4 26.6 39.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.094 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

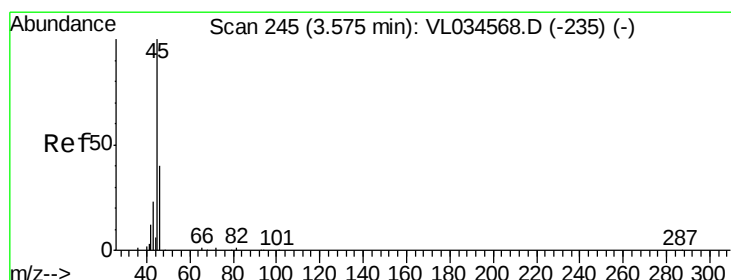
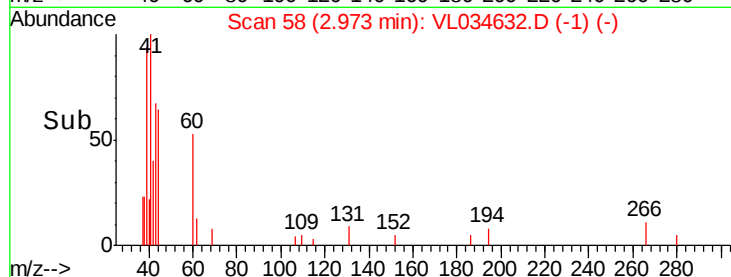
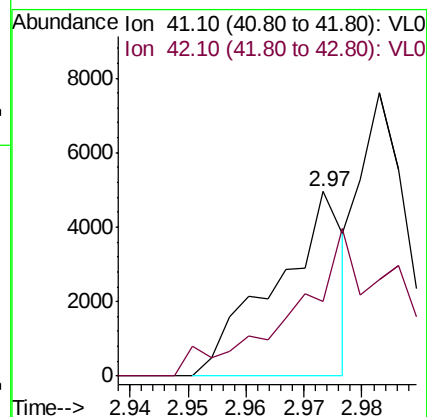
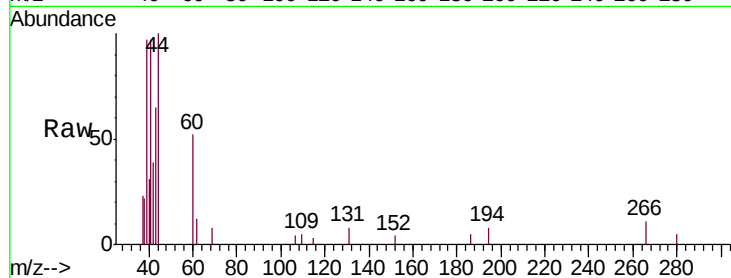
IR-PRSSDL

Tgt Ion: 41 Resp: 4021

Ion Ratio Lower Upper

41 100

42 128.7 57.0 85.4#



#13

Ethanol

Concen: 0.529 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL034632.D

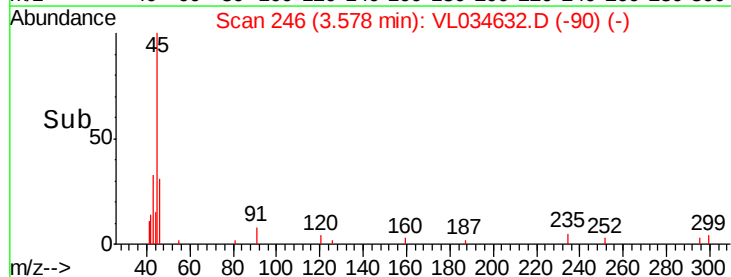
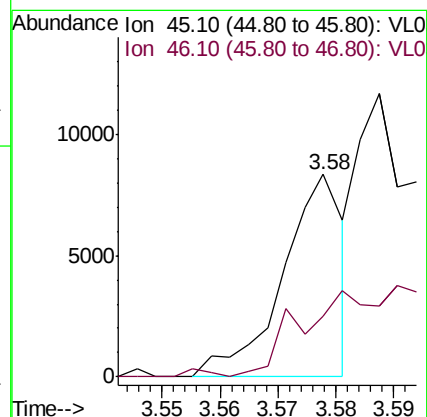
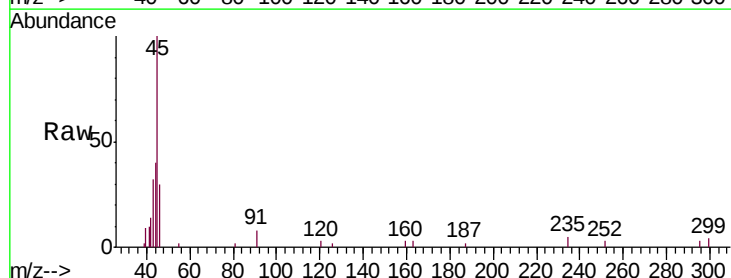
Acq: 18 Feb 2020 20:19

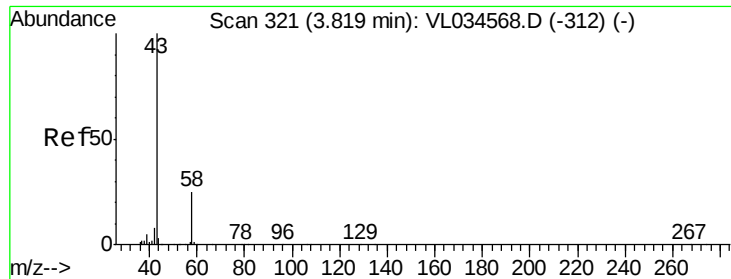
Tgt Ion: 45 Resp: 6081

Ion Ratio Lower Upper

45 100

46 0.0 14.8 59.2#





#15

Acetone

Concen: 2.313 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

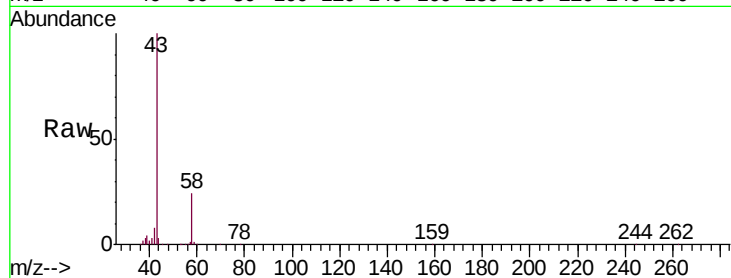
IR-PRSSDL

Tgt Ion: 43 Resp: 309865

Ion Ratio Lower Upper

43 100

58 27.5 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.82

200000

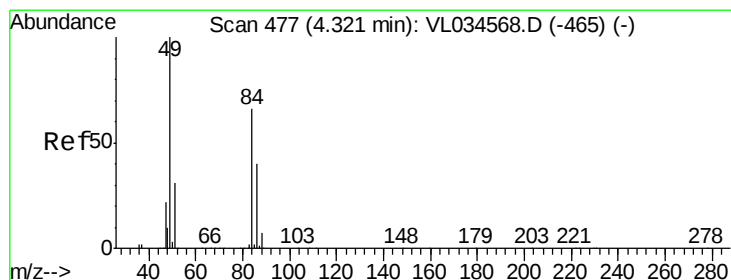
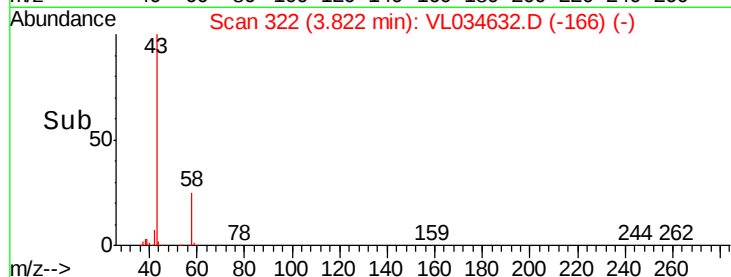
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 0.945 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.00 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Tgt Ion: 84 Resp: 48239

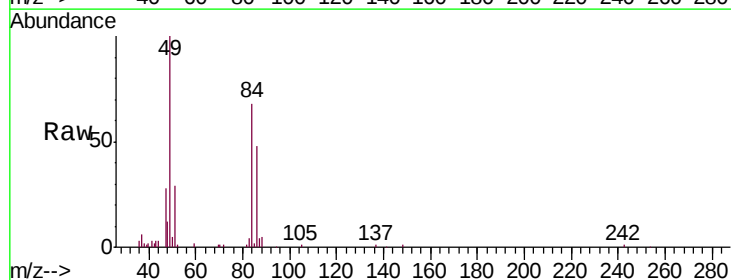
Ion Ratio Lower Upper

84 100

49 146.5 122.4 183.6

51 42.3 38.6 57.8

86 69.1 49.0 73.6



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

80000

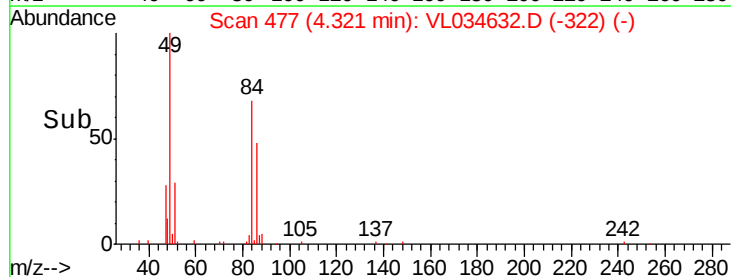
60000

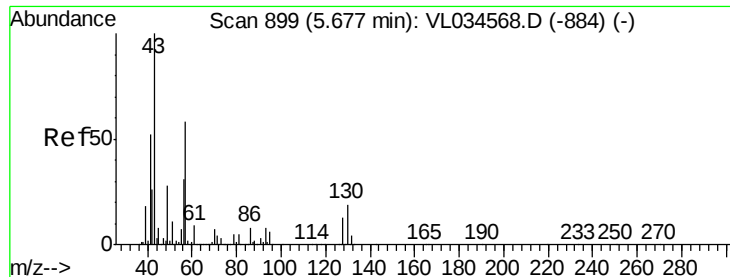
40000

20000

0

Time-->





#26

Hexane

Concen: 0.160 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

IR-PRSSDL

Tgt Ion: 57 Resp: 14565

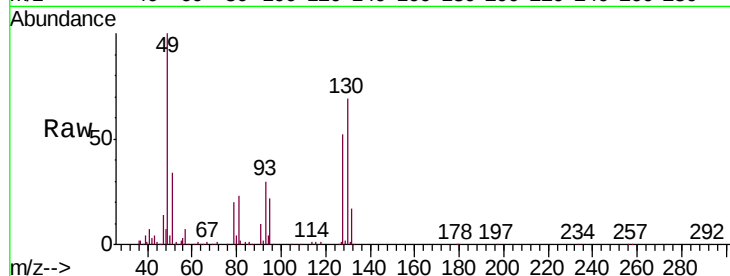
Ion Ratio Lower Upper

57 100

41 113.1 76.2 114.2

43 86.1 189.9 284.9#

56 61.3 43.6 65.4

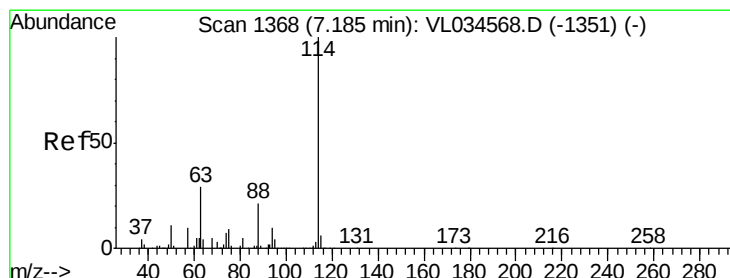
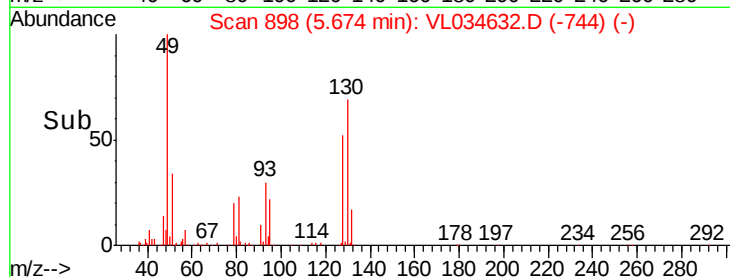
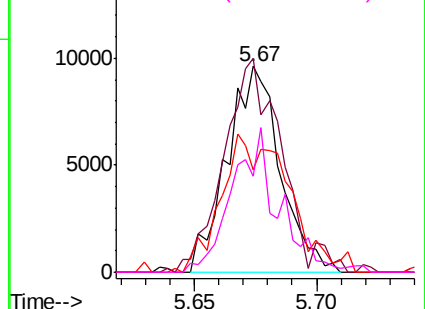


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

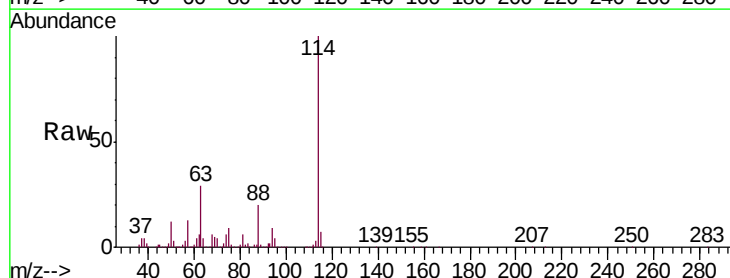
Tgt Ion: 114 Resp: 1893075

Ion Ratio Lower Upper

114 100

63 29.3 24.1 36.1

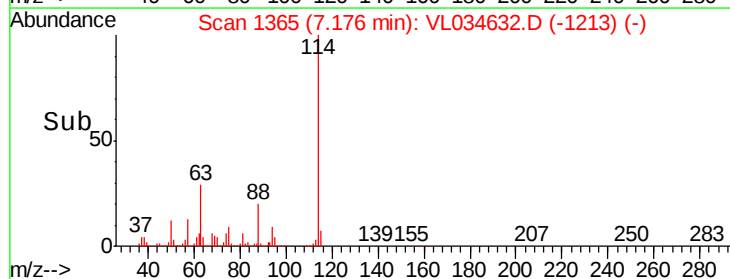
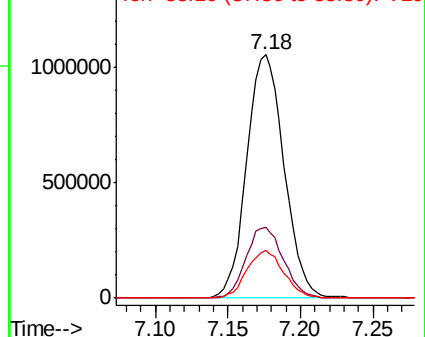
88 19.3 15.9 23.9

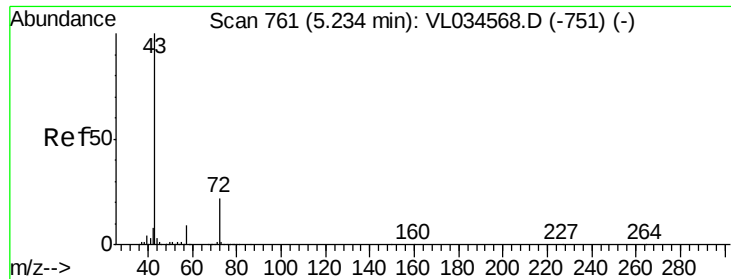


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

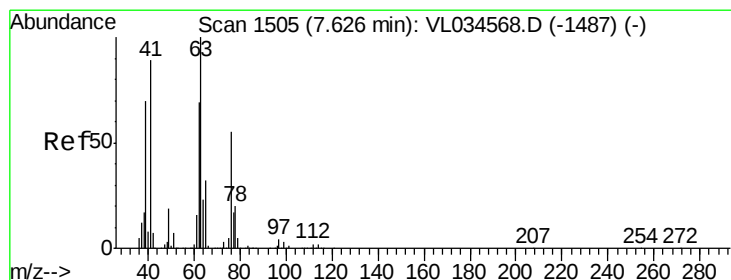
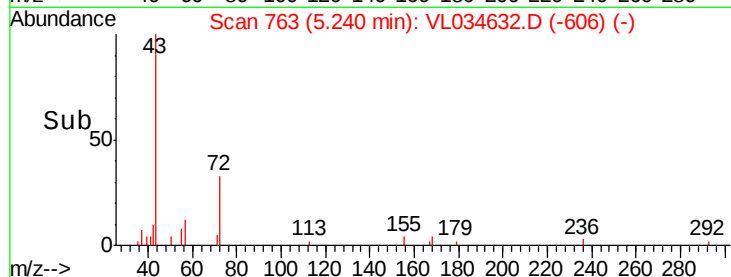
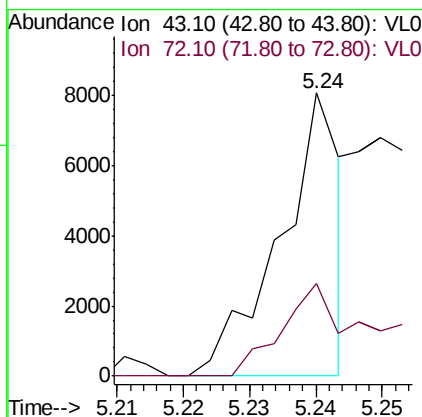
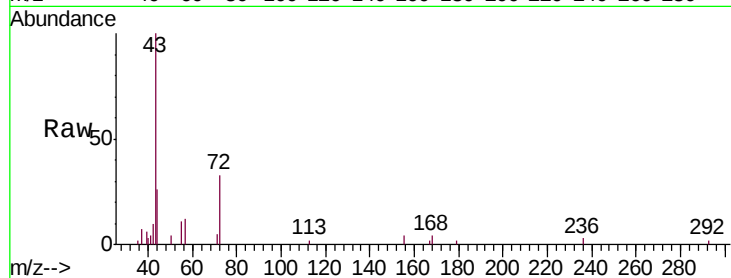




#34
 2-Butanone
 Concen: 0.037 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL034632.D
 Acq: 18 Feb 2020 20:19

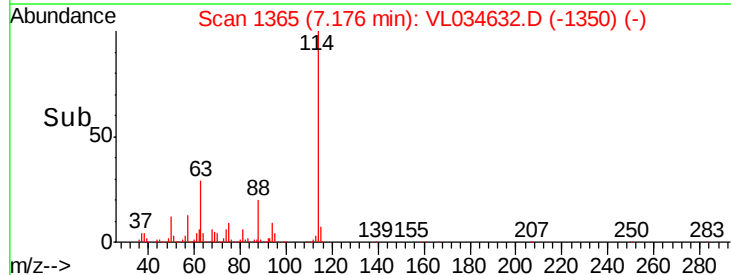
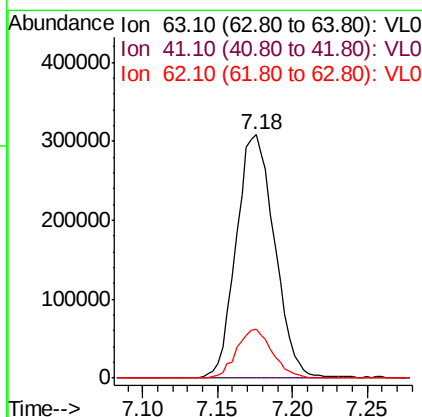
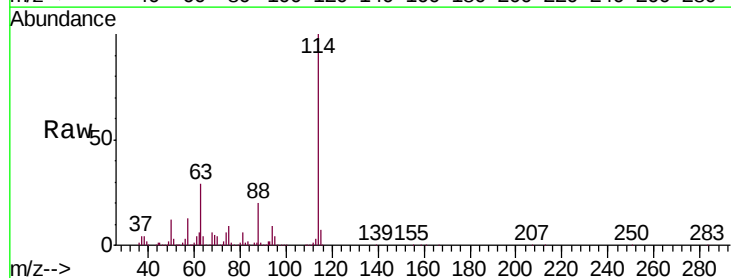
Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PRSSDL

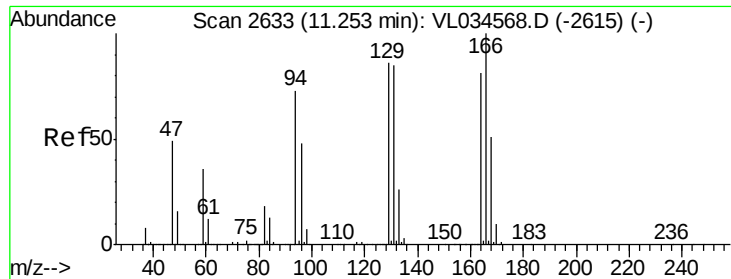
Tgt Ion: 43 Resp: 5103
 Ion Ratio Lower Upper
 43 100
 72 69.7 17.2 25.8#



#39
 1,2-Dichloropropane
 Concen: 7.873 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034632.D
 Acq: 18 Feb 2020 20:19

Tgt Ion: 63 Resp: 549428
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 20.0 55.4 83.0#





#52

Tetrachloroethene

Concen: 0.322 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.01 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

IR-PRSSDL

Tgt Ion:164 Resp: 21762

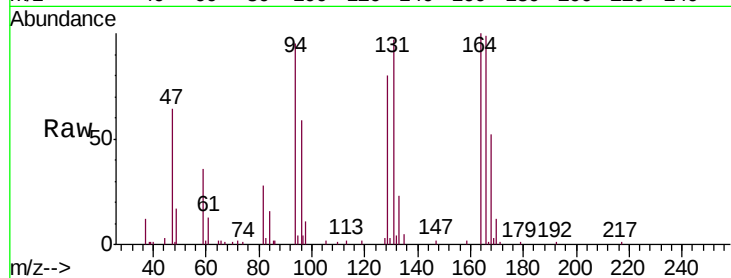
Ion Ratio Lower Upper

164 100

166 93.6 99.0 148.4#

129 79.2 85.3 127.9#

131 95.0 84.2 126.2

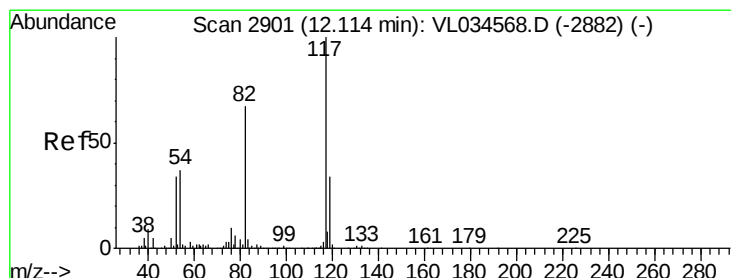
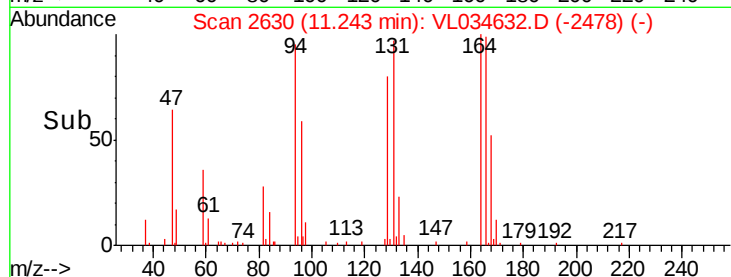
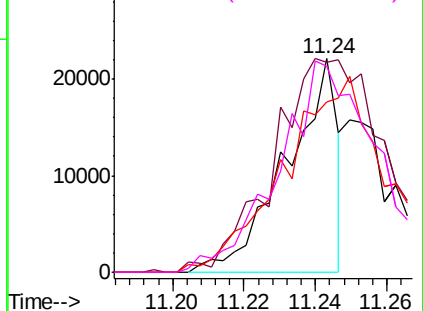


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

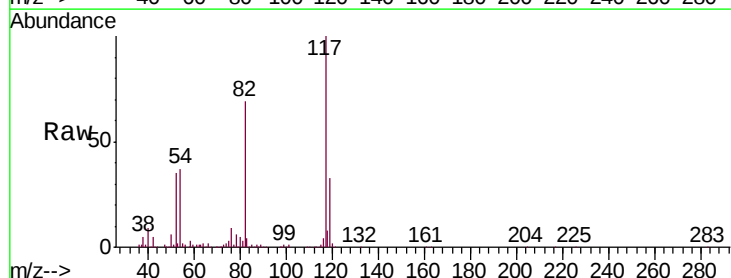
Tgt Ion:117 Resp: 1878074

Ion Ratio Lower Upper

117 100

82 70.9 54.2 81.4

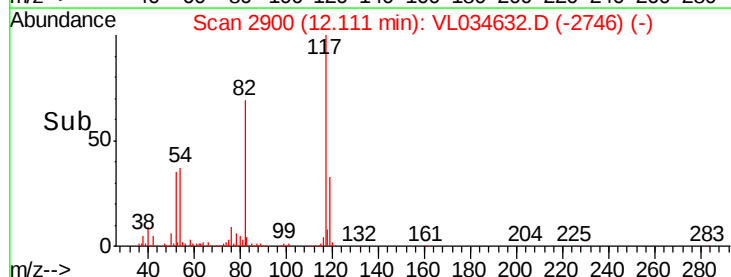
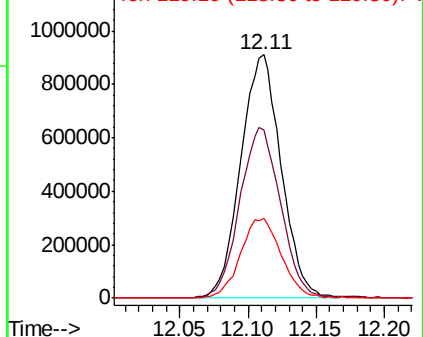
119 33.1 26.1 39.1

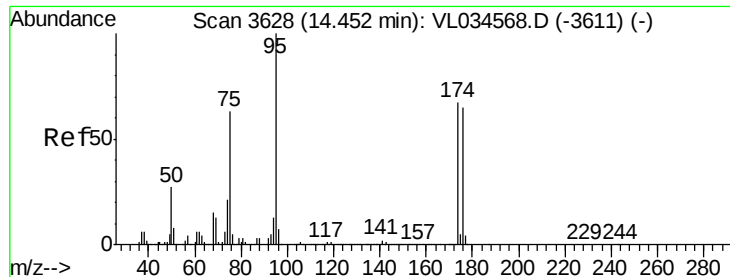


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.129 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.01 min

Lab File: VL034632.D

Acq: 18 Feb 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

IR-PRSSDL

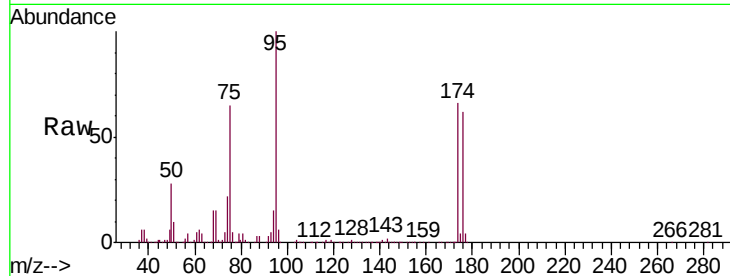
Tgt Ion: 95 Resp: 1607720

Ion Ratio Lower Upper

95 100

174 64.2 52.3 78.5

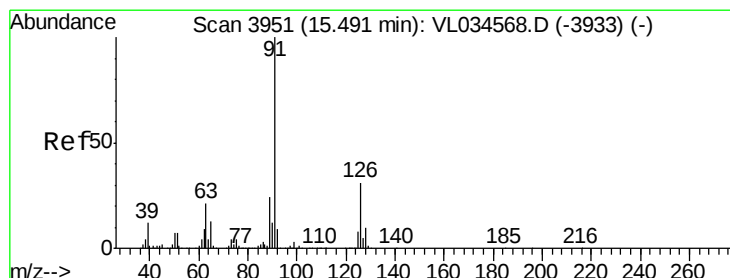
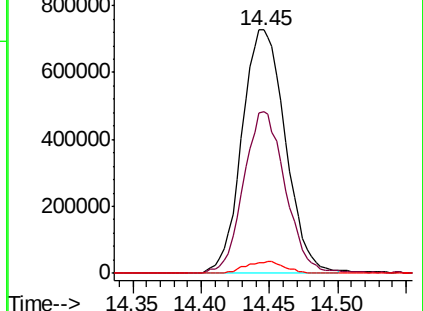
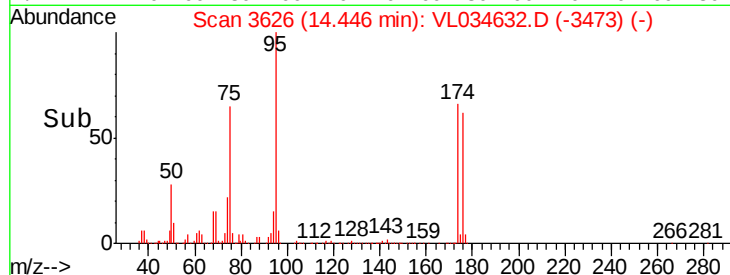
175 4.5 3.8 5.6



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



#71

2-Chlorotoluene

Concen: 0.577 ppbv

RT: 15.35 min Scan# 3907

Delta R.T. -0.14 min

Lab File: VL034632.D

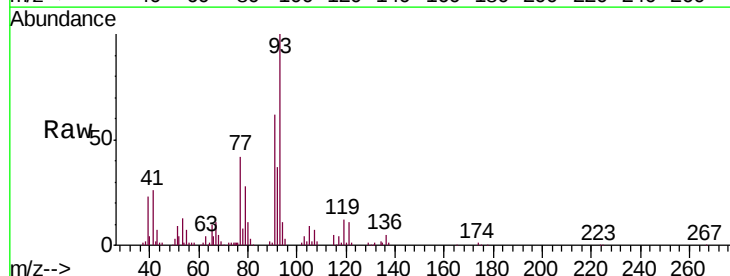
Acq: 18 Feb 2020 20:19

Tgt Ion: 91 Resp: 126539

Ion Ratio Lower Upper

91 100

126 0.1 12.0 47.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

