

Data File : VL032564.D
Acq On : 28 Sep 2018 00:44
Operator : SY/AP
Sample : J5094-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

Quant Time: Sep 28 02:11:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1343602	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2954608	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3043117	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2188379	9.54	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

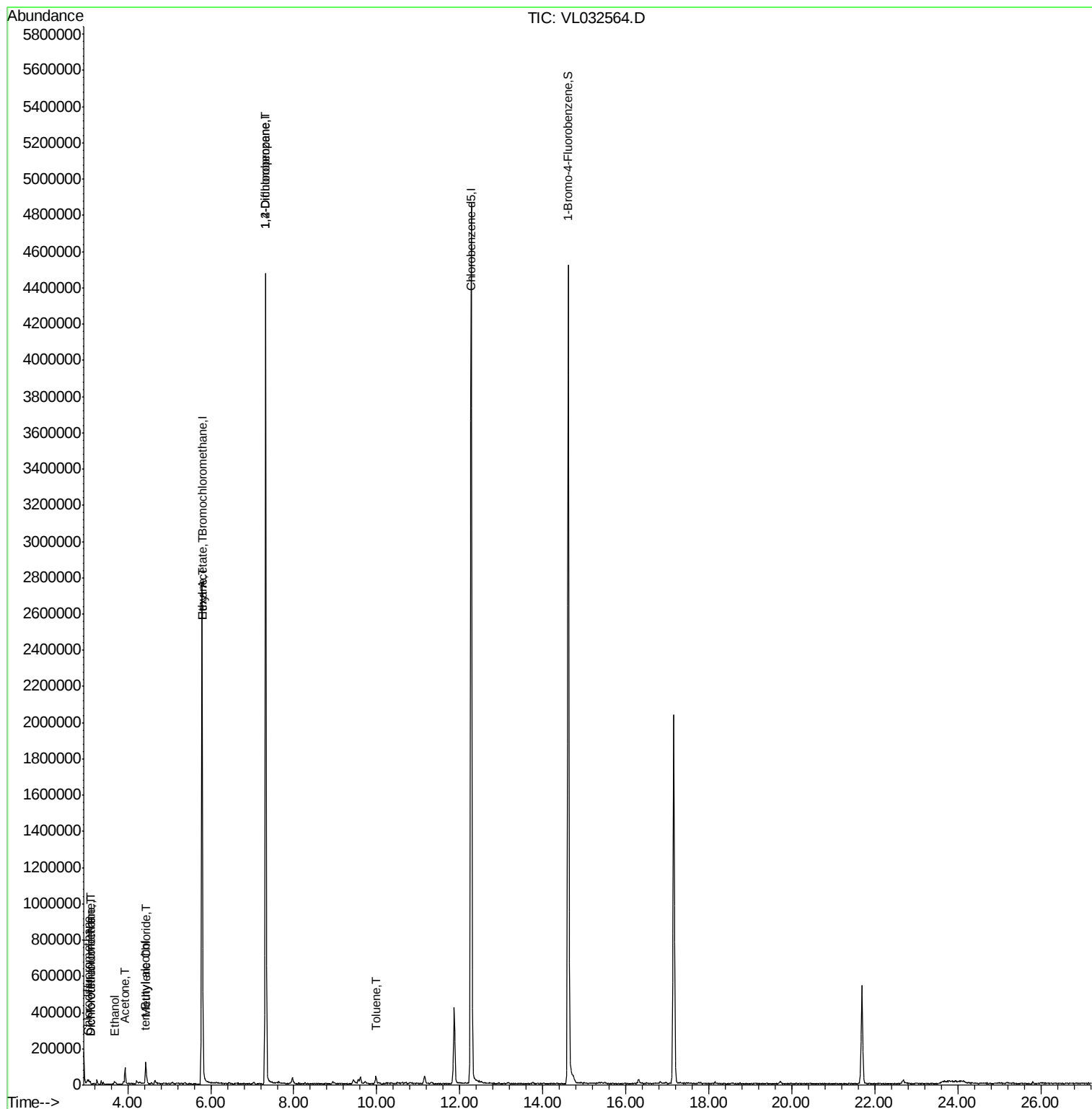
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	9249	0.074	ppbv	99
3) Chlorodifluoromethane	3.03	51	19403	0.174	ppbv	97
8) Dichlorotetrafluoroethane	3.10	85	9249	0.068	ppbv #	22
13) Ethanol	3.69	45	11165	0.766	ppbv	77
15) Acetone	3.93	43	91677	0.777	ppbv	97
17) tert-Butyl alcohol	4.41	59	1246	0.084	ppbv #	100
20) Methylene Chloride	4.43	84	36229	0.634	ppbv	95
25) Ethyl Acetate	5.80	43	15651	0.055	ppbv #	82
26) Hexane	5.80	57	19204	0.149	ppbv #	39
39) 1,2-Dichloropropane	7.32	63	817722	7.599	ppbv #	26
53) Toluene	9.98	91	28353	0.097	ppbv	99

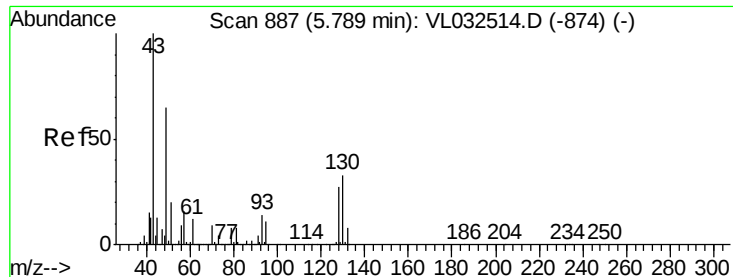
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032564.D

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Instrument :

MSVOA_L

ClientSampleId :

AA-1DL

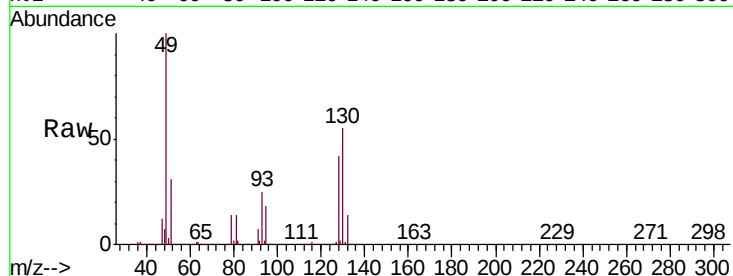
Tgt Ion: 49 Resp: 1343602

Ion Ratio Lower Upper

49 100

128 44.6 20.7 62.1

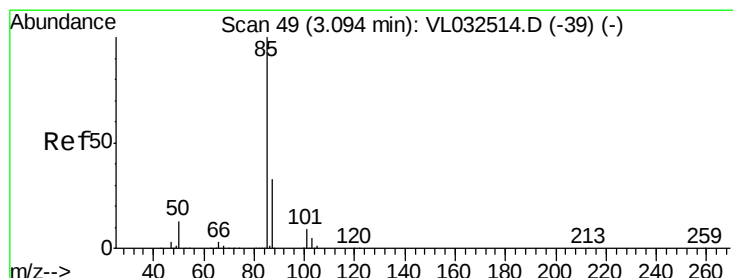
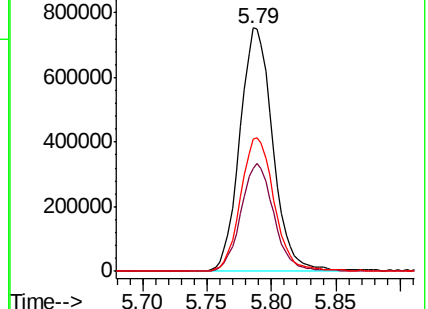
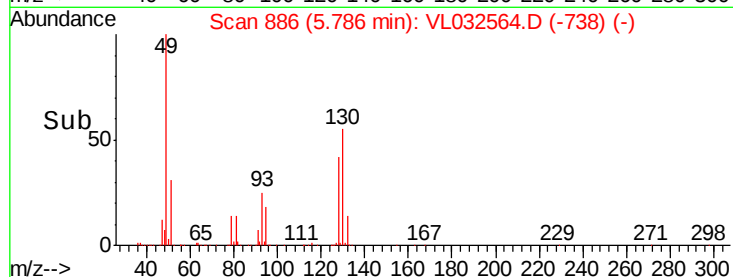
130 56.6 26.6 79.7



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: 0.074 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032564.D

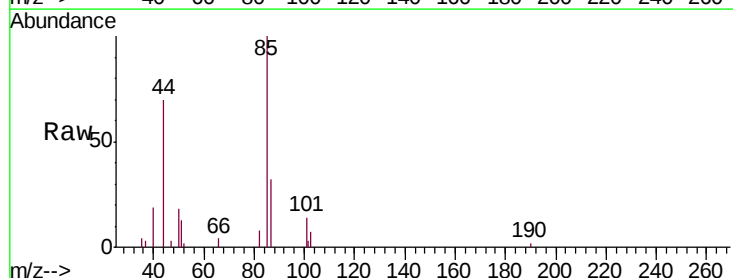
Acq: 28 Sep 2018 00:44

Tgt Ion: 85 Resp: 9249

Ion Ratio Lower Upper

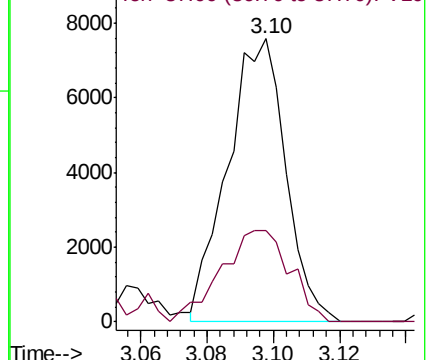
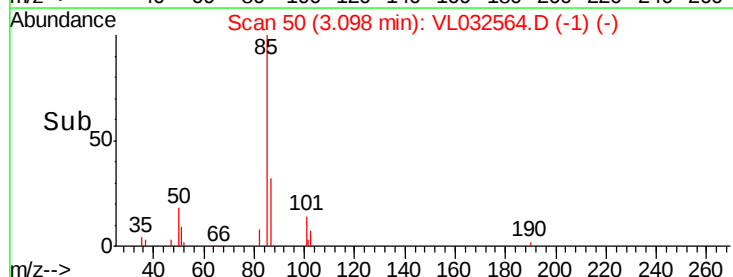
85 100

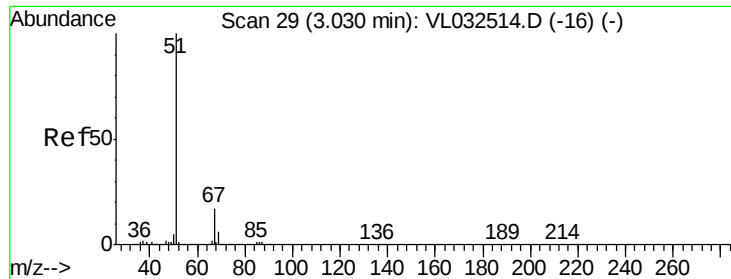
87 32.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.174 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Instrument :

MSVOA_L

ClientSampleId :

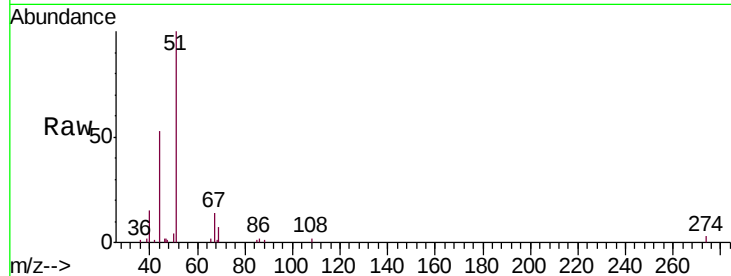
AA-1DL

Tgt Ion: 51 Resp: 19403

Ion Ratio Lower Upper

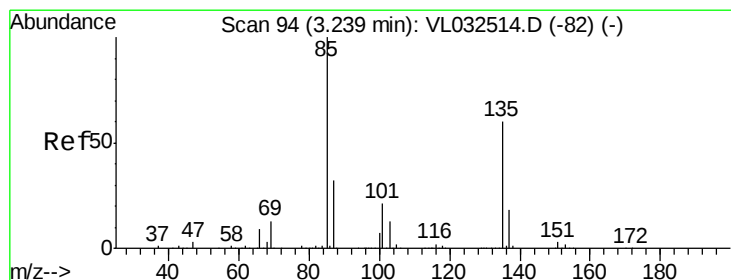
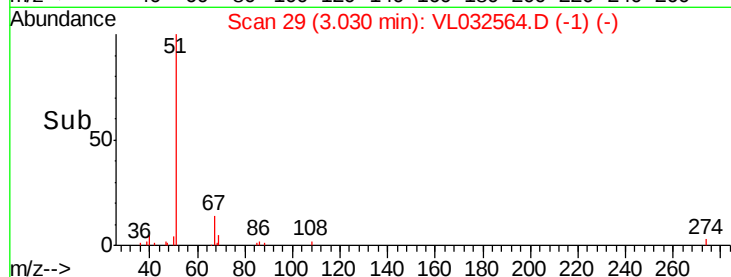
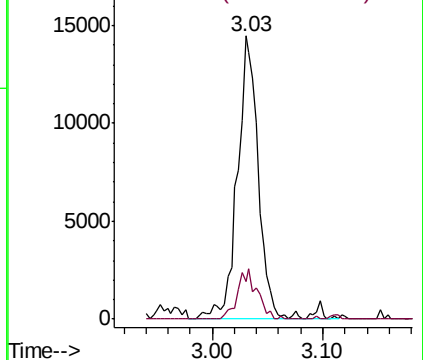
51 100

67 15.9 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.068 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.16 min

Lab File: VL032564.D

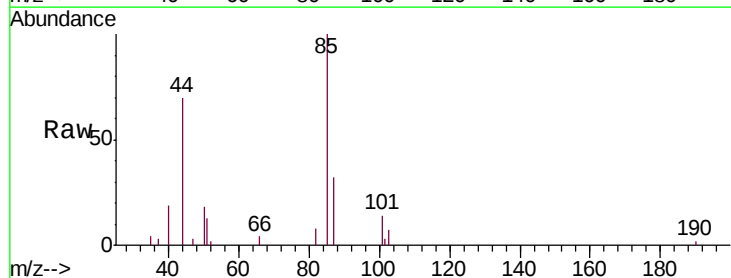
Acq: 28 Sep 2018 00:44

Tgt Ion: 85 Resp: 9249

Ion Ratio Lower Upper

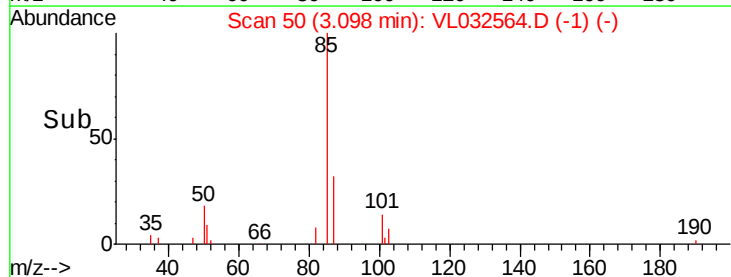
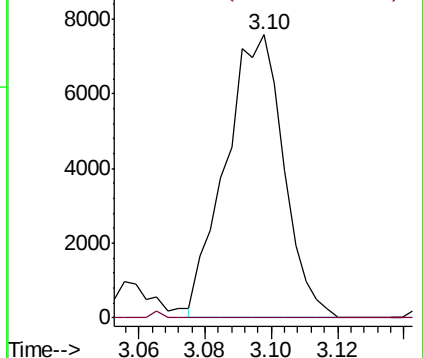
85 100

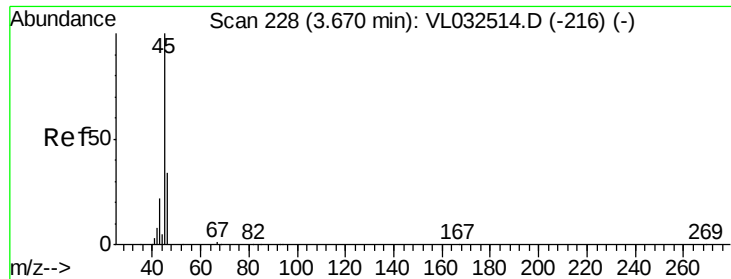
135 1.5 48.6 72.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

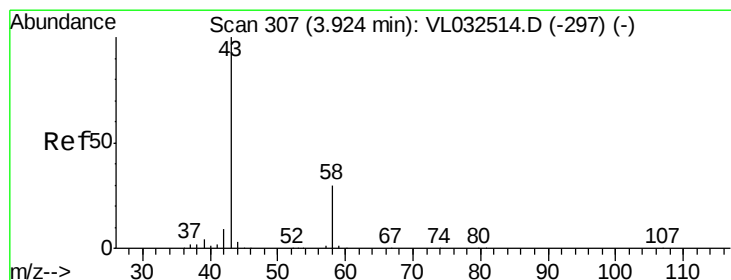
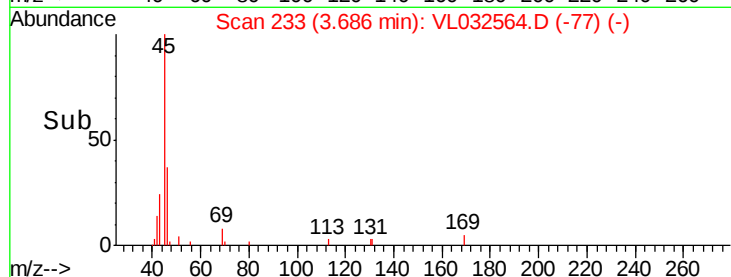
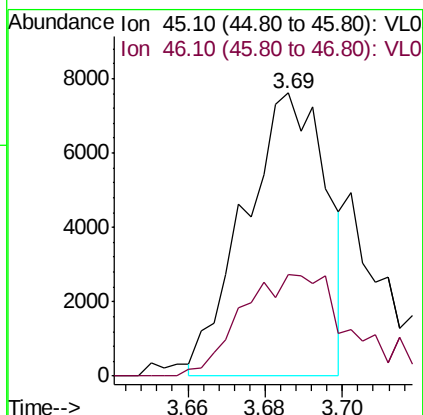
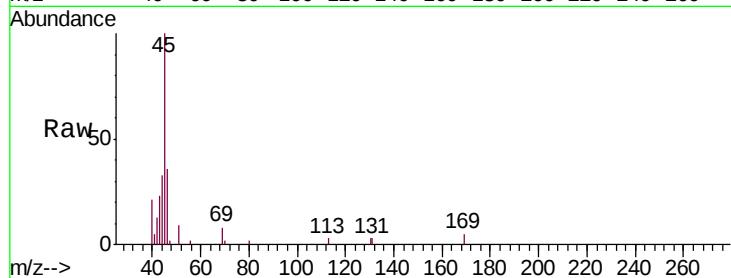




#13
Ethanol
Concen: 0.766 ppbv
RT: 3.69 min Scan# 233
Delta R.T. 0.00 min
Lab File: VL032564.D
Acq: 28 Sep 2018 00:44

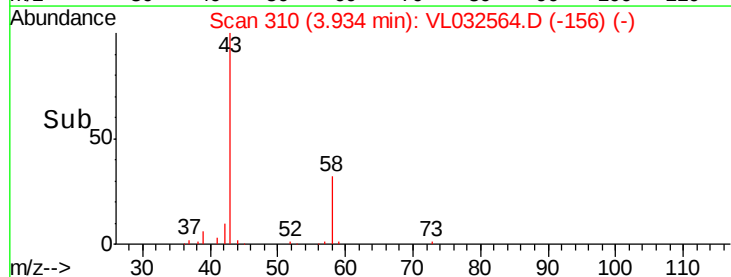
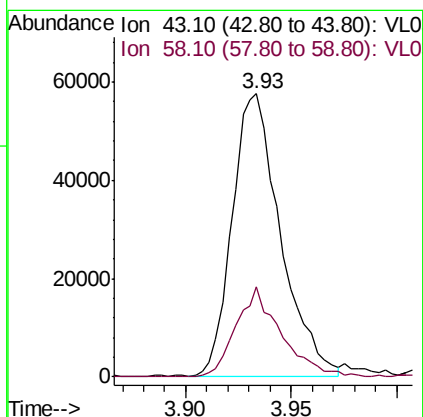
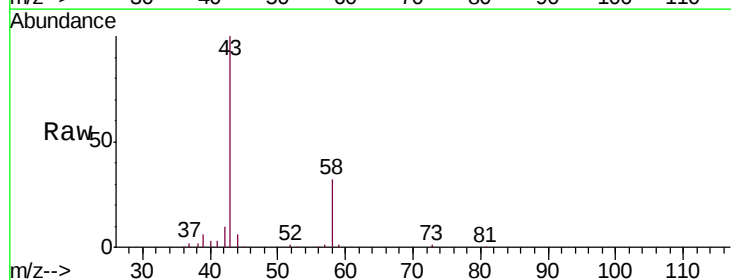
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

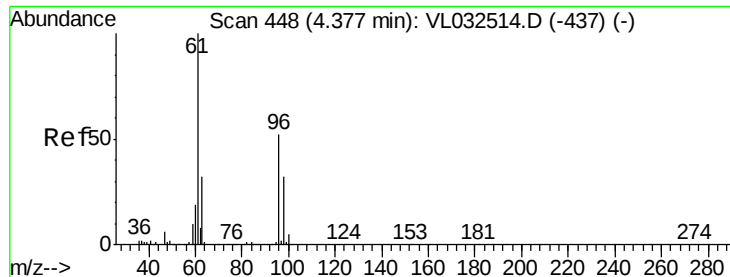
Tgt Ion: 45 Resp: 11165
Ion Ratio Lower Upper
45 100
46 48.8 14.2 56.8



#15
Acetone
Concen: 0.777 ppbv
RT: 3.93 min Scan# 310
Delta R.T. -0.01 min
Lab File: VL032564.D
Acq: 28 Sep 2018 00:44

Tgt Ion: 43 Resp: 91677
Ion Ratio Lower Upper
43 100
58 30.0 22.6 33.8





#17

tert-Butyl alcohol

Concen: 0.084 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Instrument :

MSVOA_L

ClientSampleId :

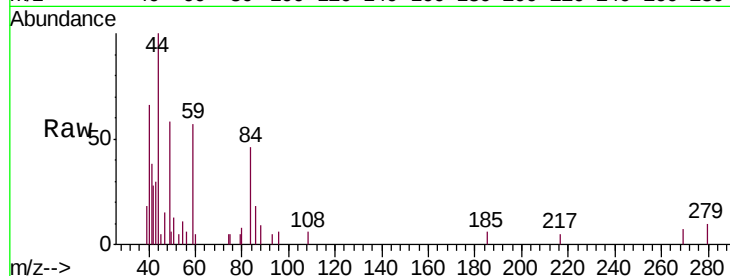
AA-1DL

Tgt Ion: 59 Resp: 1246

Ion Ratio Lower Upper

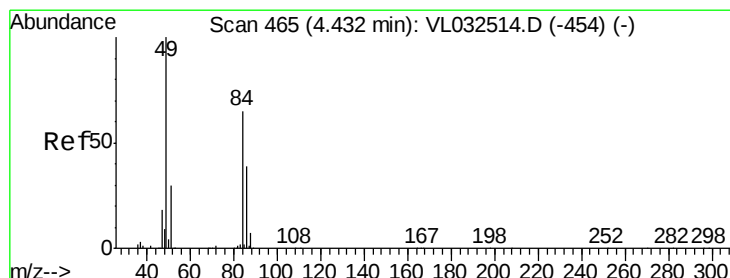
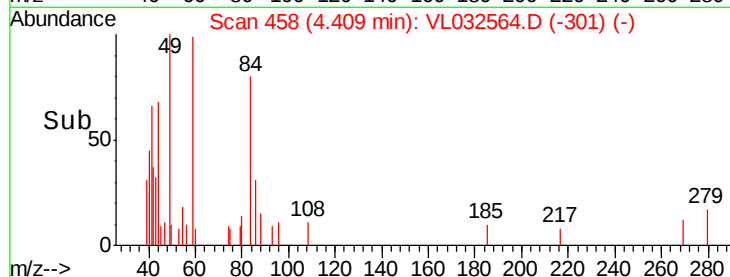
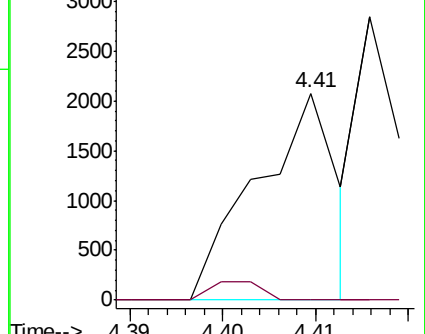
59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#20

Methylene Chloride

Concen: 0.634 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Tgt Ion: 84 Resp: 36229

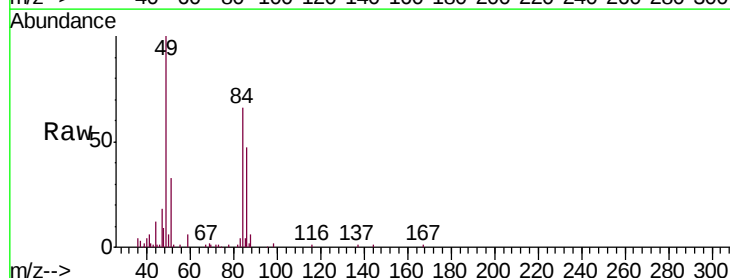
Ion Ratio Lower Upper

84 100

49 147.4 119.1 178.7

51 48.7 35.2 52.8

86 70.4 49.4 74.2

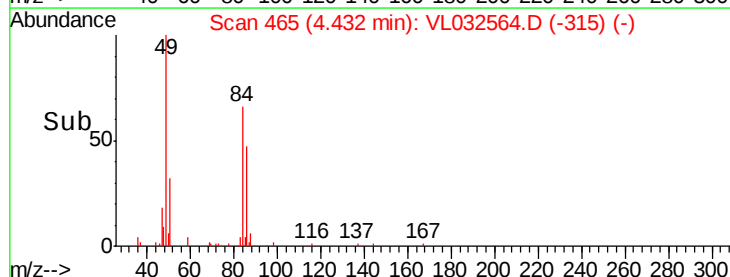
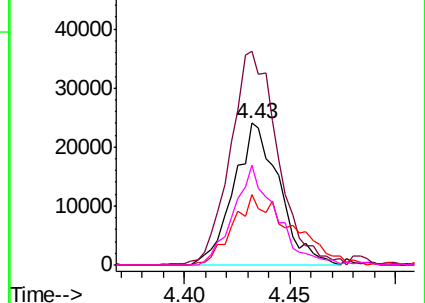


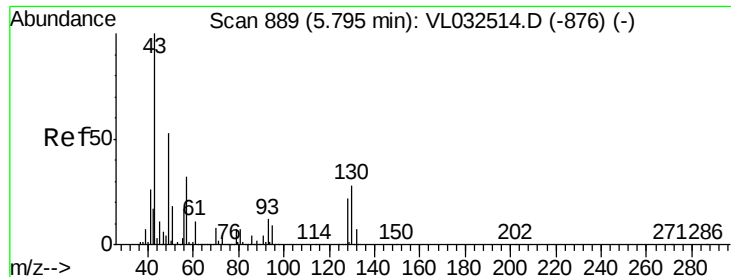
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#25

Ethyl Acetate

Concen: 0.055 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Instrument :

MSVOA_L

ClientSampleId :

AA-1DL

Tgt Ion: 43 Resp: 15651

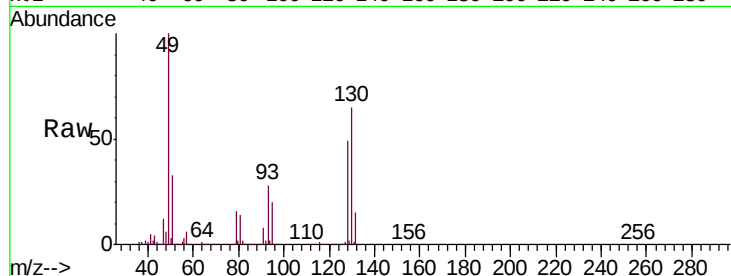
Ion Ratio Lower Upper

43 100

45 5.0 8.0 12.0#

61 0.9 7.6 11.4#

70 1.6 5.8 8.8#

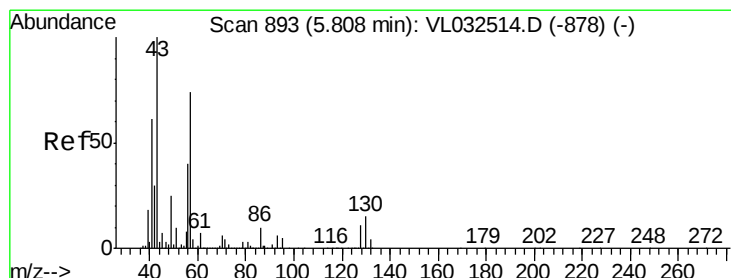
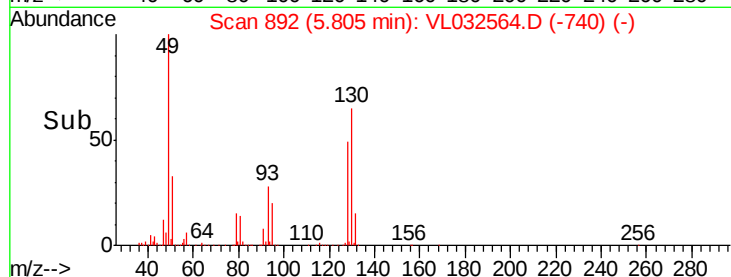
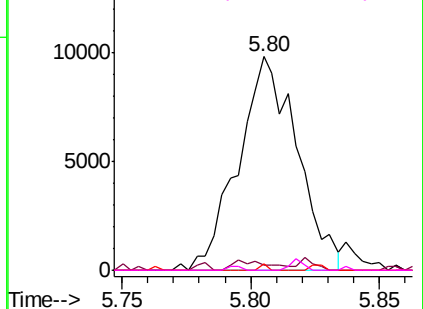


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.149 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Tgt Ion: 57 Resp: 19204

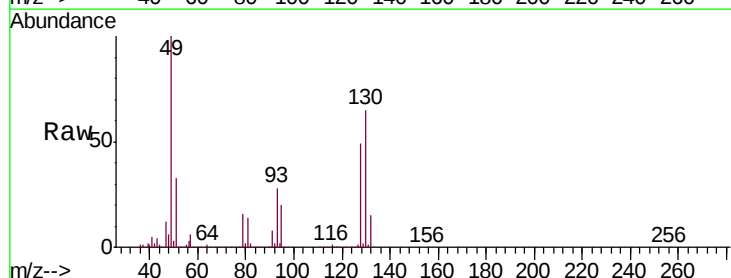
Ion Ratio Lower Upper

57 100

41 116.1 69.0 103.4#

43 85.2 172.1 258.1#

56 67.8 42.2 63.2#

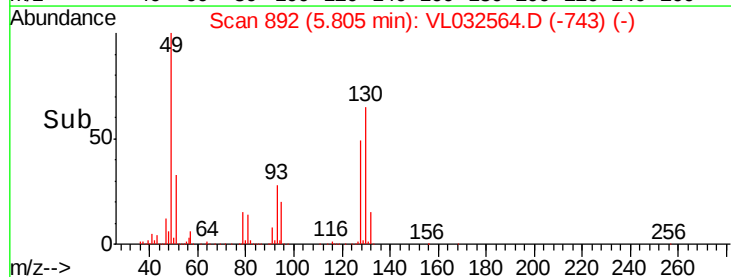
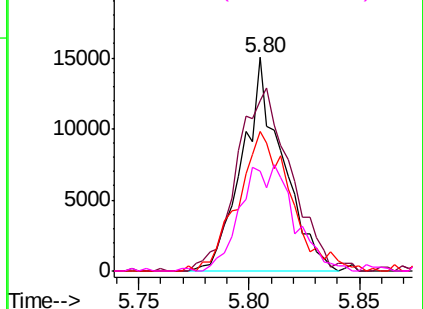


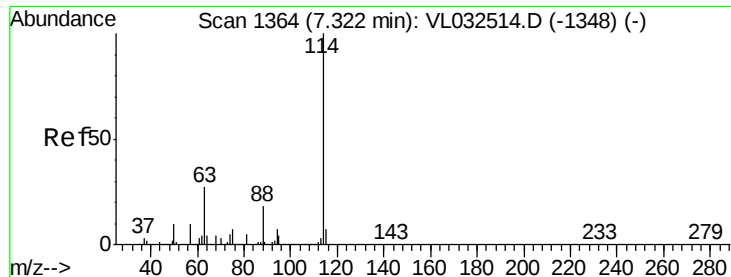
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

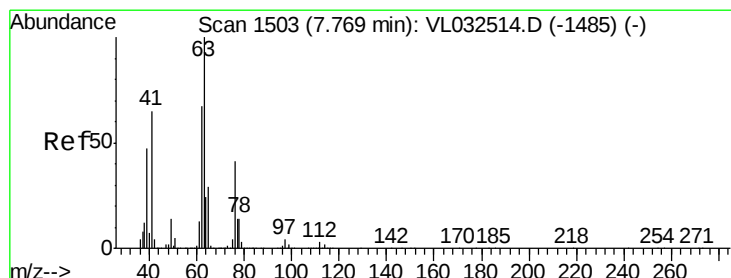
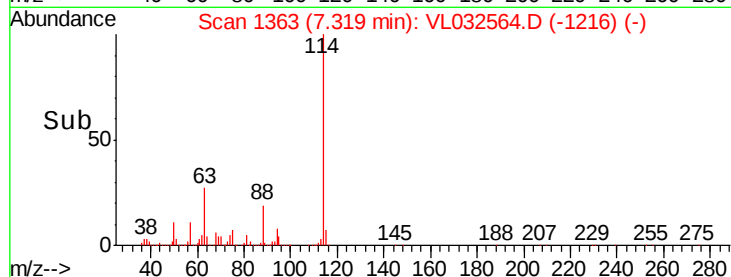
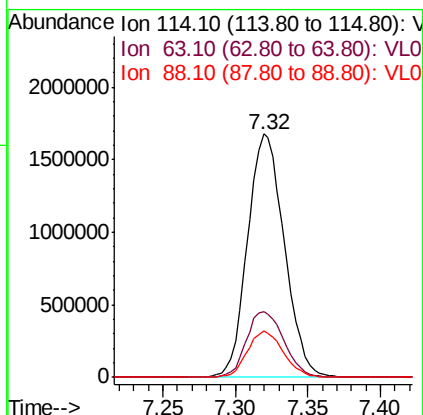
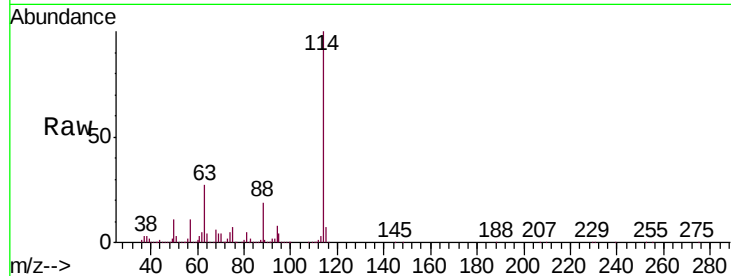




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032564.D
 Acq: 28 Sep 2018 00:44

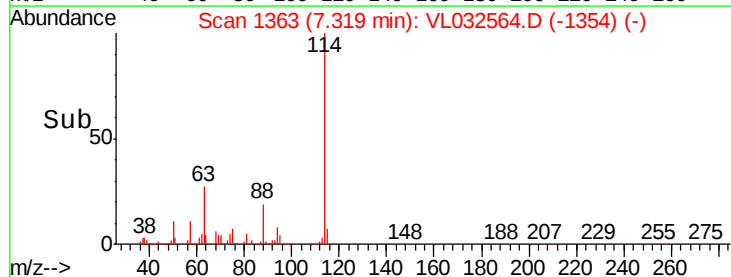
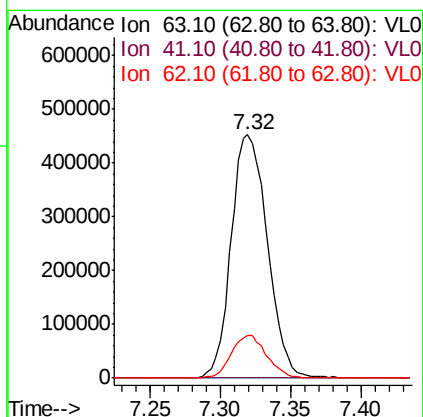
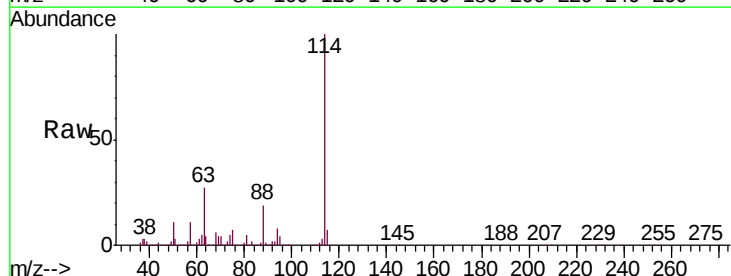
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DL

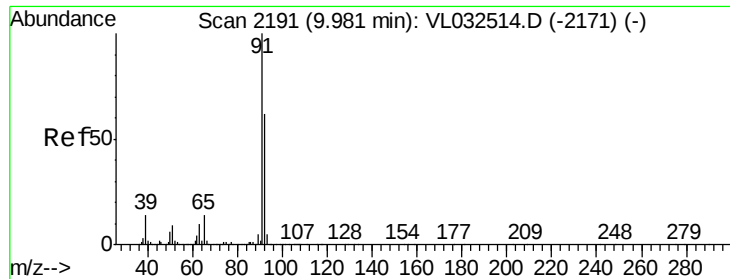
Tgt Ion:114 Resp: 2954608
 Ion Ratio Lower Upper
 114 100
 63 27.8 22.2 33.4
 88 18.7 15.0 22.4



#39
 1,2-Dichloropropane
 Concen: 7.599 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.47 min
 Lab File: VL032564.D
 Acq: 28 Sep 2018 00:44

Tgt Ion: 63 Resp: 817722
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 17.7 55.4 83.0#





#53

Toluene

Concen: 0.097 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Instrument :

MSVOA_L

ClientSampleId :

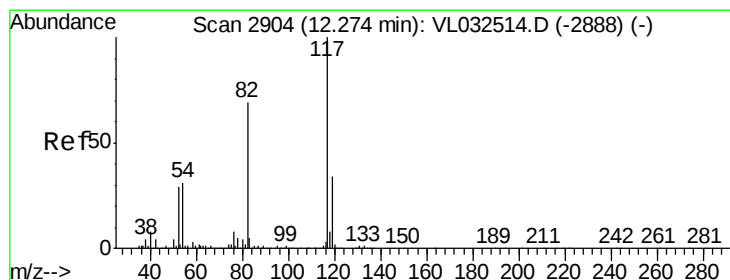
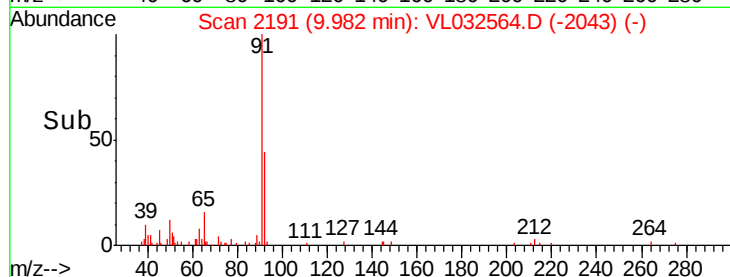
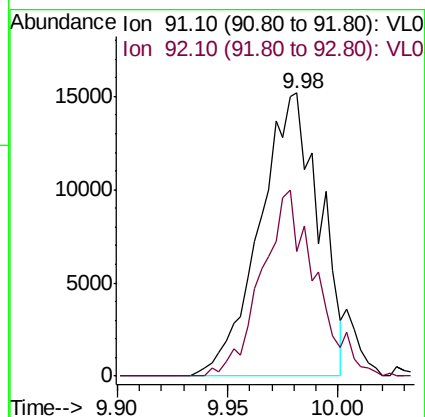
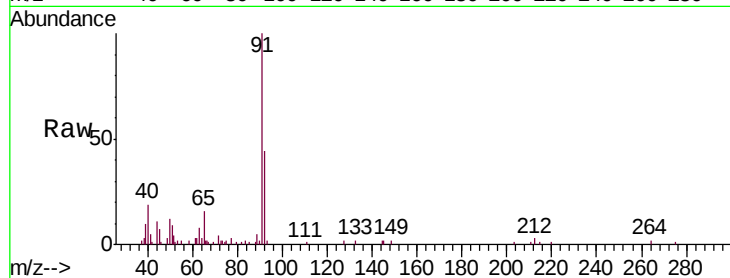
AA-1DL

Tgt Ion: 91 Resp: 28353

Ion Ratio Lower Upper

91 100

92 59.7 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

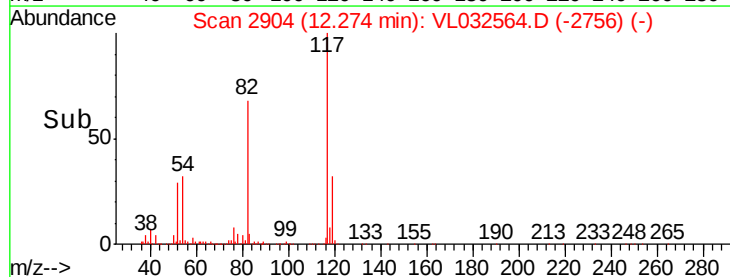
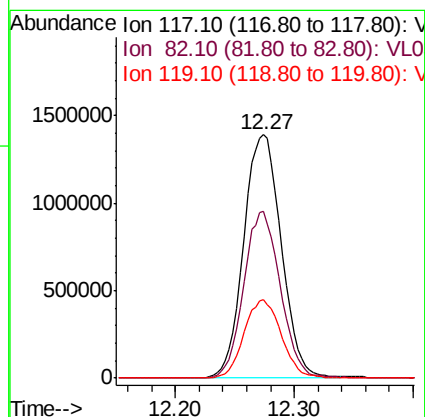
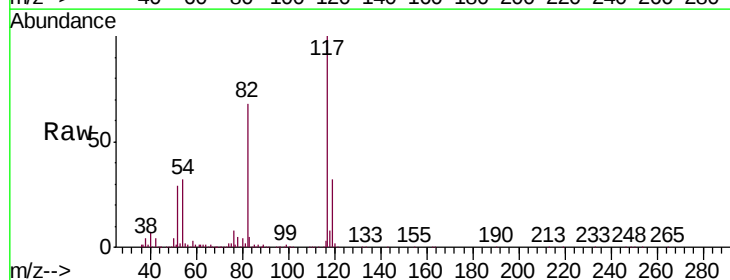
Tgt Ion: 117 Resp: 3043117

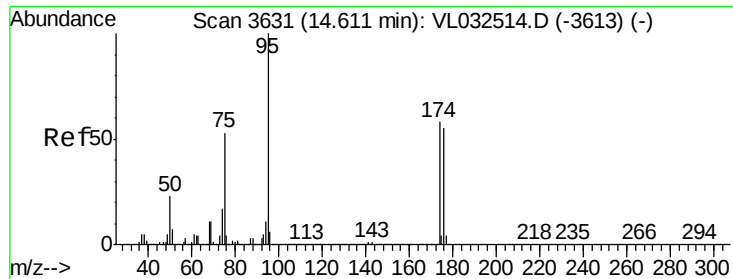
Ion Ratio Lower Upper

117 100

82 67.1 53.0 79.6

119 32.1 45.9 68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.536 ppbv

RT: 14.61 min Scan# 3631

Delta R.T. -0.02 min

Lab File: VL032564.D

Acq: 28 Sep 2018 00:44

Instrument :

MSVOA_L

ClientSampleId :

AA-1DL

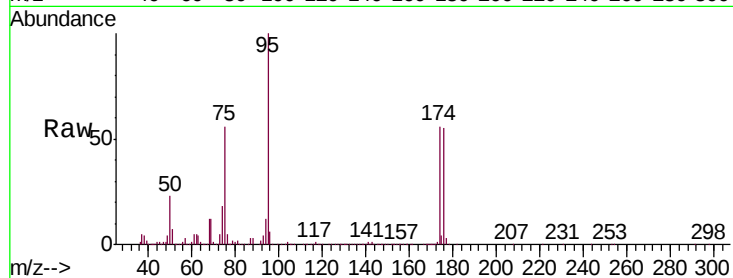
Tgt Ion: 95 Resp: 2188379

Ion Ratio Lower Upper

95 100

174 59.4 46.3 69.5

175 4.4 3.4 5.0



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

