

Data File : VL033094.D
Acq On : 16 Jan 2019 16:19
Operator : SY/AP
Sample : K1130-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Quant Time: Jan 17 01:53:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 04 16:09:05 2019
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1055239	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2543110	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2401028	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1842997 10.01 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.10%

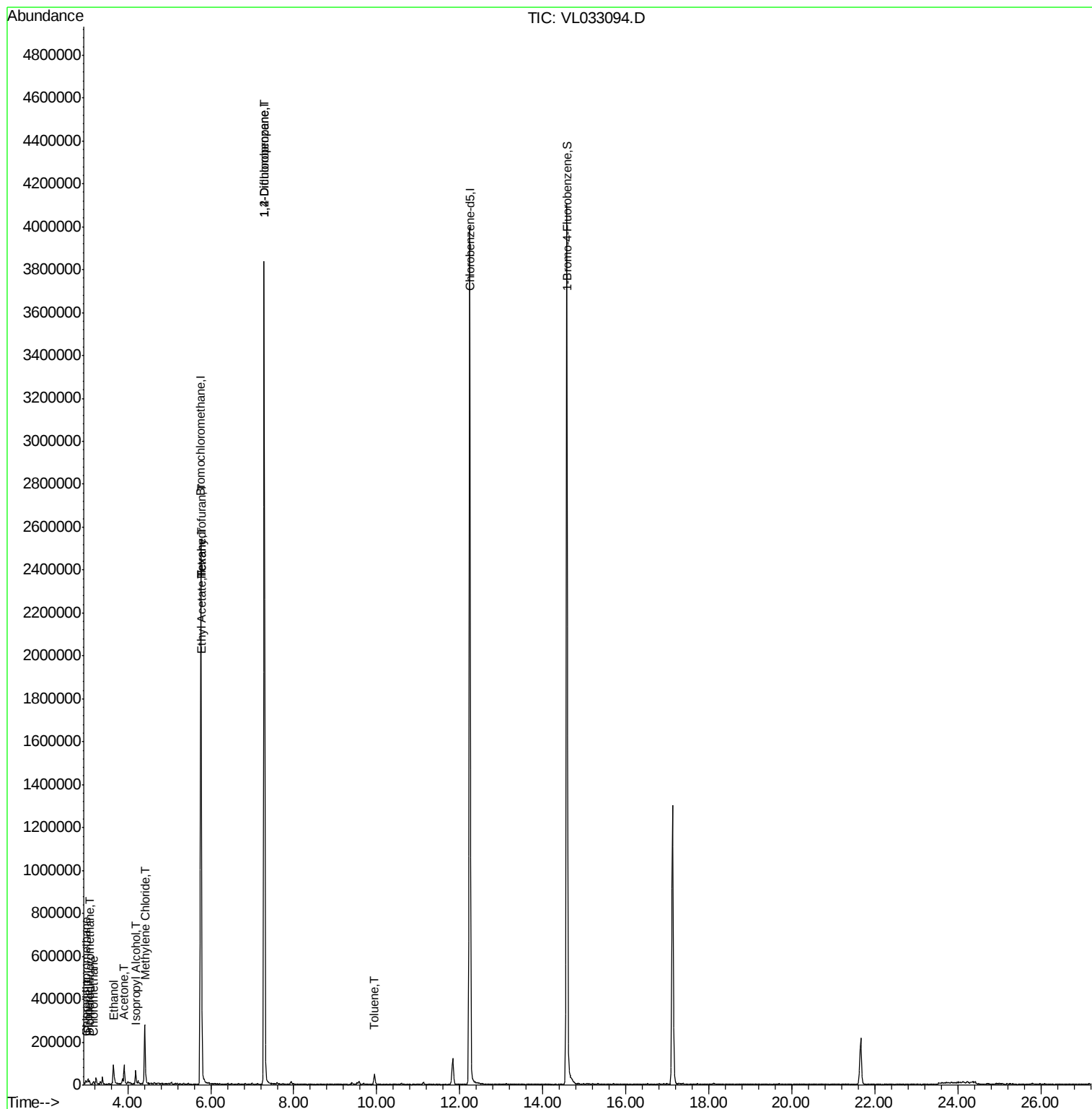
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	10276	0.052	ppbv	90
3) Chlorodifluoromethane	2.99	51	17285	0.145	ppbv #	78
4) Chloromethane	3.17	50	6520	0.095	ppbv #	75
9) Propene	3.04	41	4893	0.110	ppbv	89
13) Ethanol	3.65	45	96323	5.413	ppbv	96
15) Acetone	3.91	43	88809	0.608	ppbv	99
19) Isopropyl Alcohol	4.19	45	14737	0.147	ppbv #	95
20) Methylene Chloride	4.41	84	96272	1.581	ppbv	96
25) Ethyl Acetate	5.78	43	68923	0.279	ppbv #	77
26) Hexane	5.78	57	97107	0.835	ppbv #	41
39) 1,2-Dichloropropane	7.29	63	645137	8.244	ppbv #	23
41) Tetrahydrofuran	5.78	42	41534	0.552	ppbv #	46
53) Toluene	9.94	91	17962	0.080	ppbv #	21

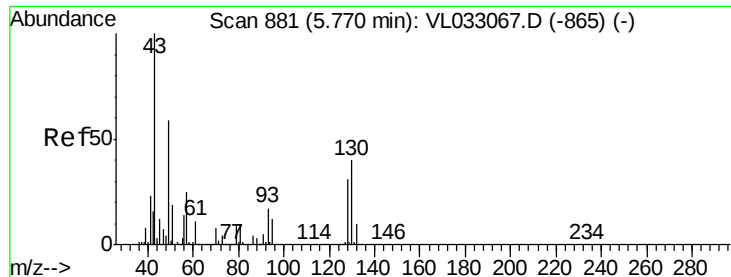
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL033094.D
Acq On : 16 Jan 2019 16:19
Operator : SY/AP
Sample : K1130-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Quant Time: Jan 17 01:53:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 04 16:09:05 2019
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

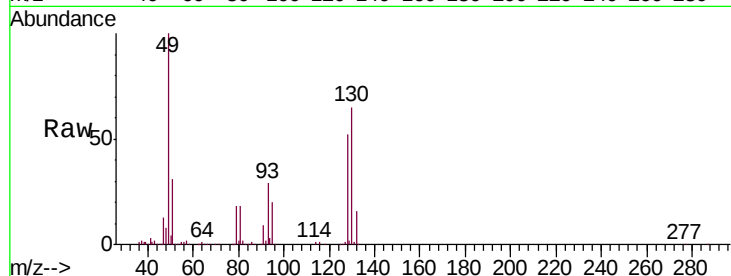
Tgt Ion: 49 Resp: 1055239

Ion Ratio Lower Upper

49 100

128 53.0 26.2 78.5

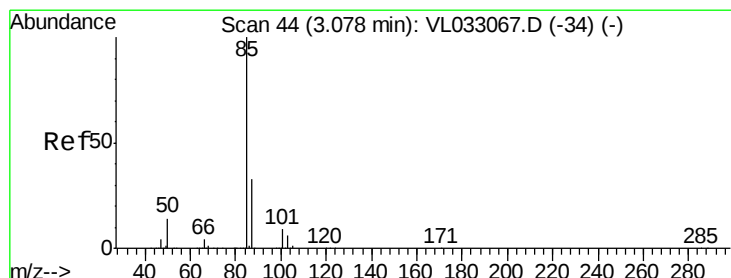
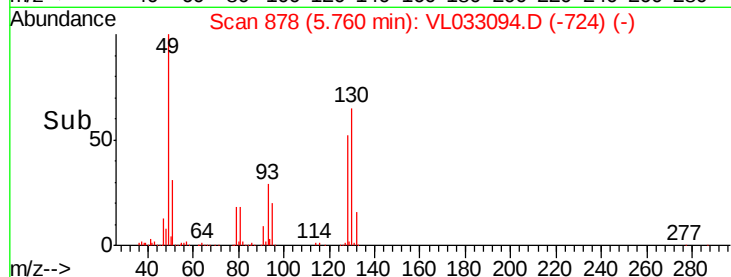
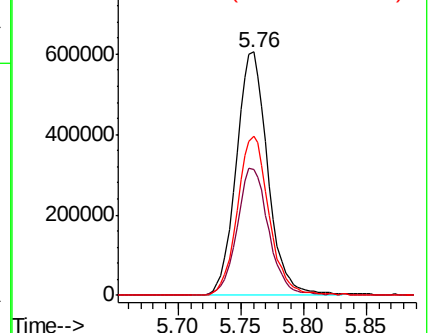
130 66.4 33.6 100.6



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: 0.052 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033094.D

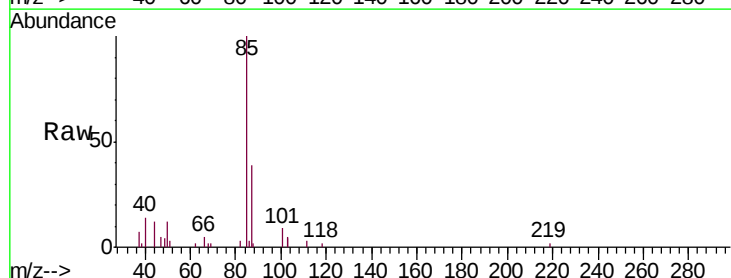
Acq: 16 Jan 2019 16:19

Tgt Ion: 85 Resp: 10276

Ion Ratio Lower Upper

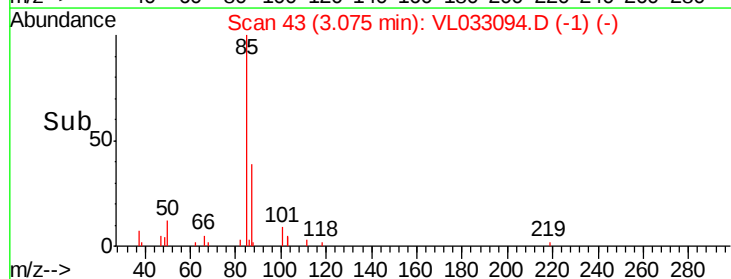
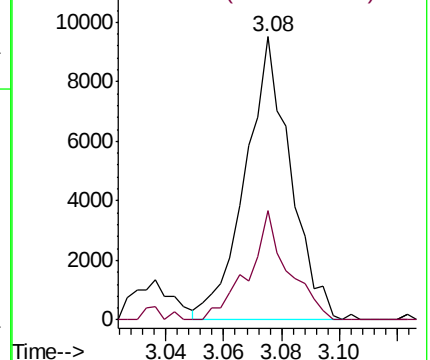
85 100

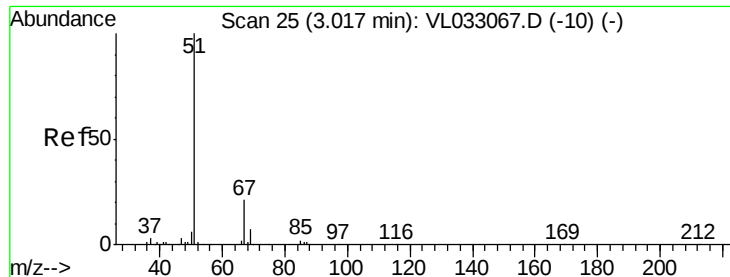
87 38.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.145 ppbv

RT: 2.99 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

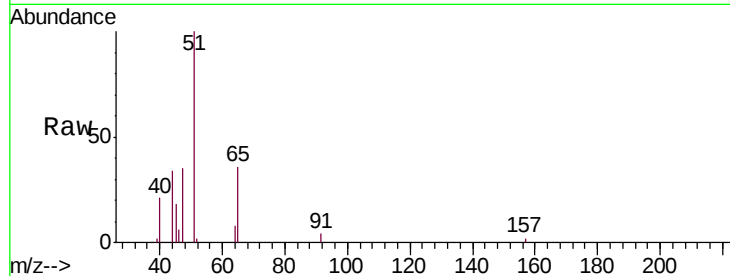
IA1ADL

Tgt Ion: 51 Resp: 17285

Ion Ratio Lower Upper

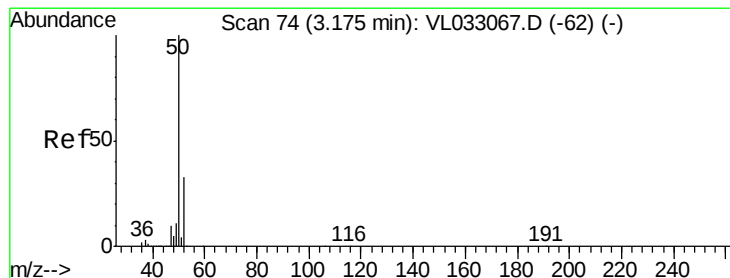
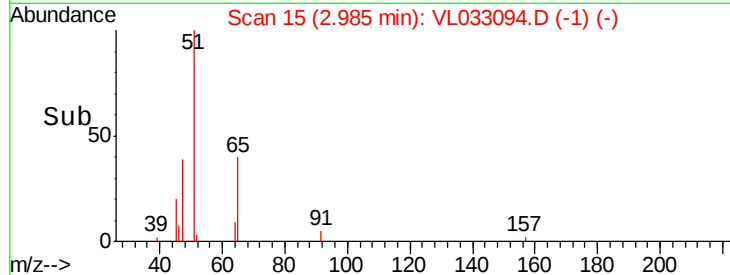
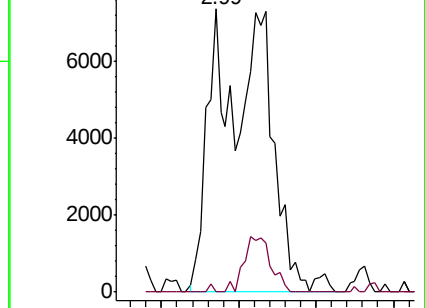
51 100

67 10.2 16.3 24.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.095 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033094.D

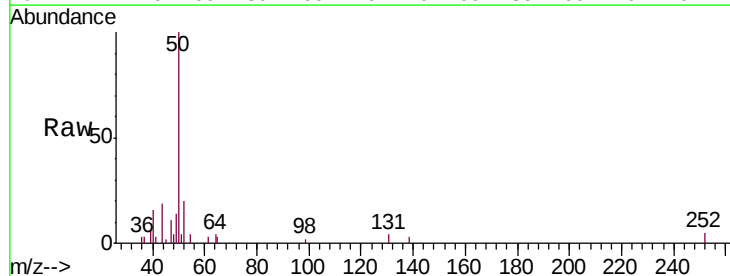
Acq: 16 Jan 2019 16:19

Tgt Ion: 50 Resp: 6520

Ion Ratio Lower Upper

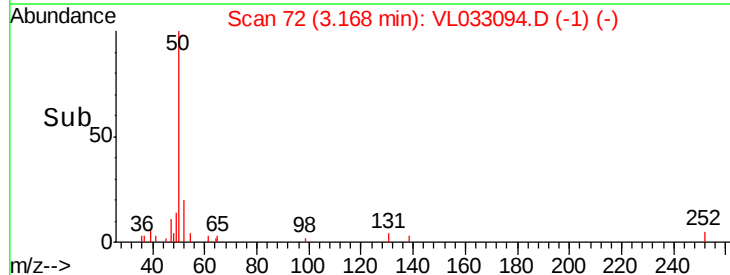
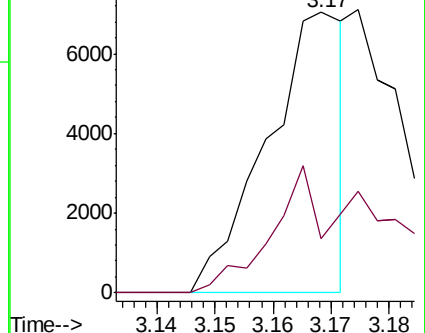
50 100

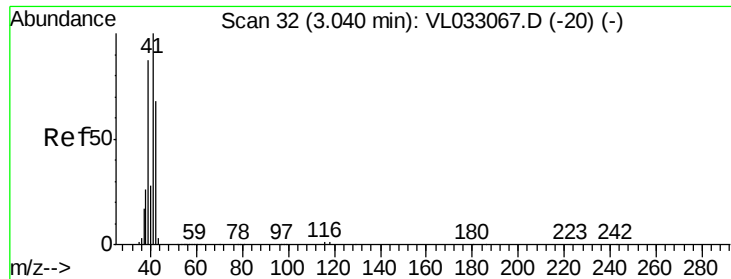
52 19.6 26.9 40.3#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.110 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

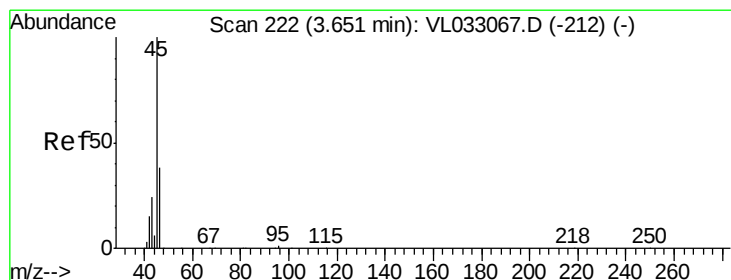
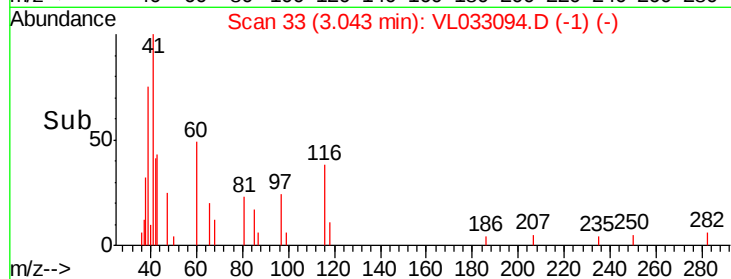
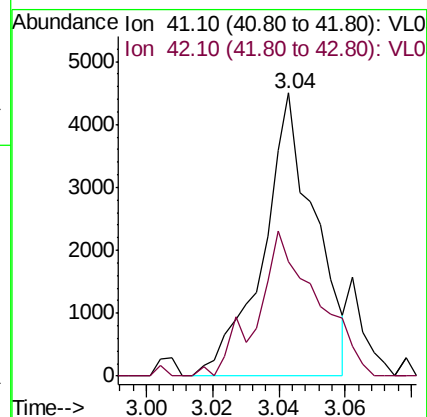
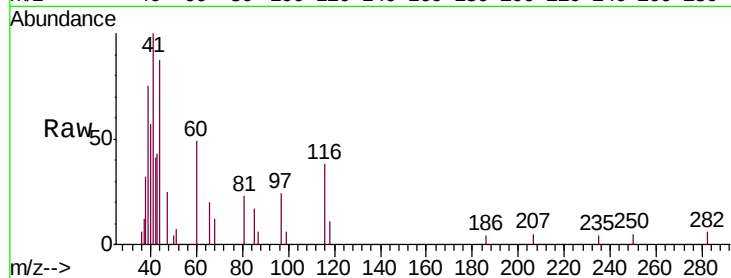
IA1ADL

Tgt Ion: 41 Resp: 4893

Ion Ratio Lower Upper

41 100

42 59.9 55.3 82.9



#13

Ethanol

Concen: 5.413 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033094.D

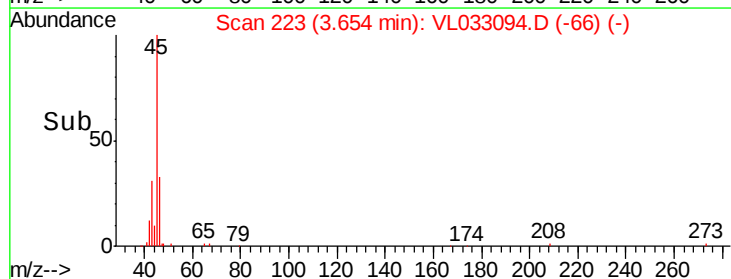
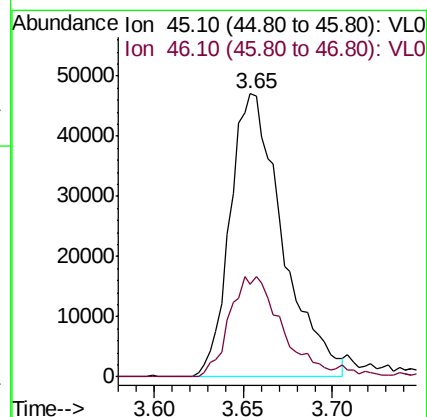
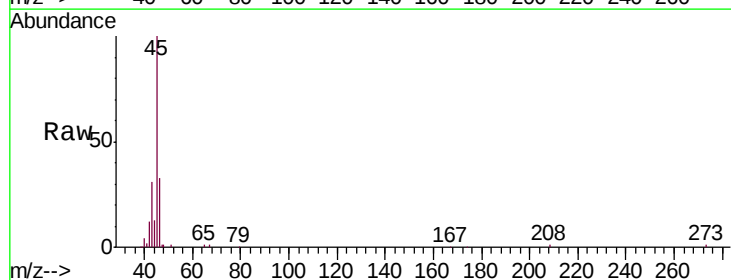
Acq: 16 Jan 2019 16:19

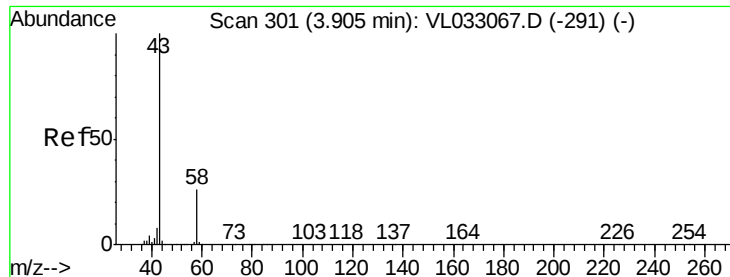
Tgt Ion: 45 Resp: 96323

Ion Ratio Lower Upper

45 100

46 37.0 13.8 55.2





#15

Acetone

Concen: 0.608 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

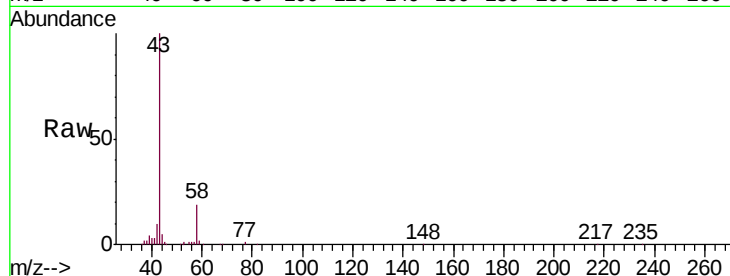
IA1ADL

Tgt Ion: 43 Resp: 88809

Ion Ratio Lower Upper

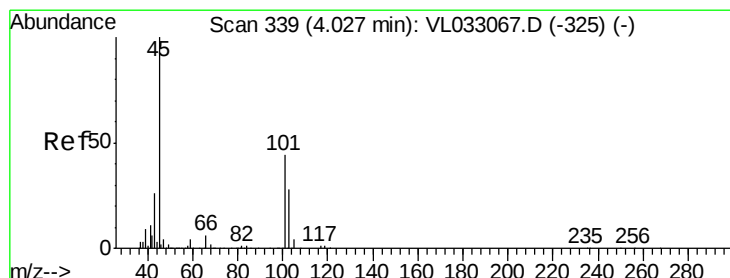
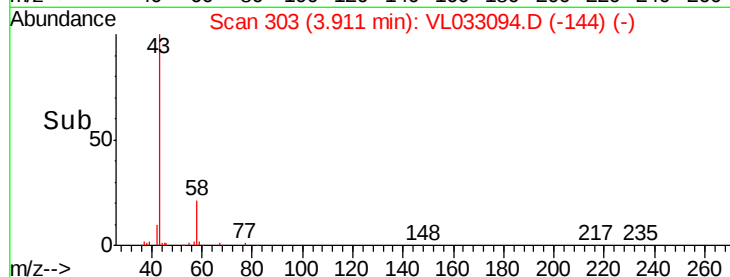
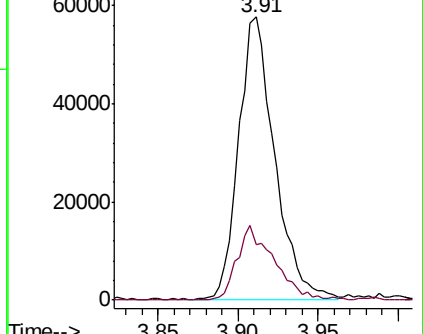
43 100

58 26.9 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.147 ppbv

RT: 4.19 min Scan# 391

Delta R.T. 0.17 min

Lab File: VL033094.D

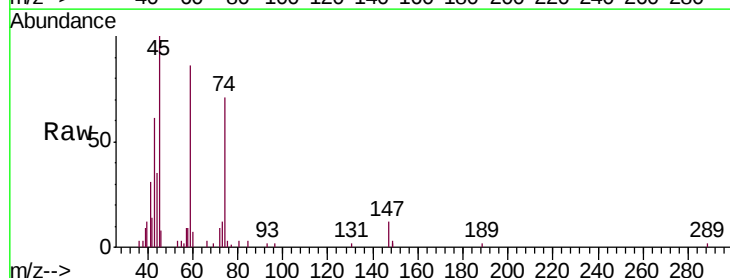
Acq: 16 Jan 2019 16:19

Tgt Ion: 45 Resp: 14737

Ion Ratio Lower Upper

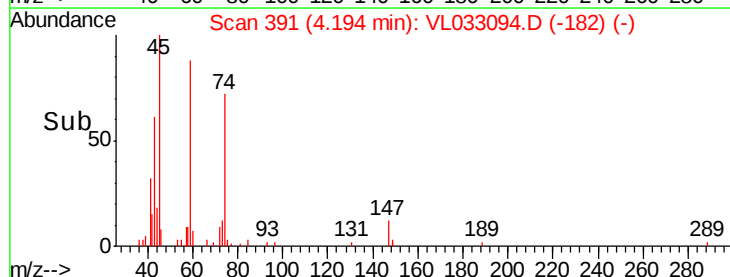
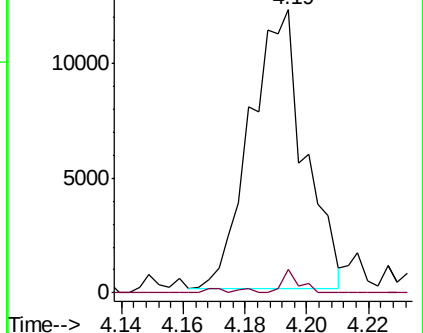
45 100

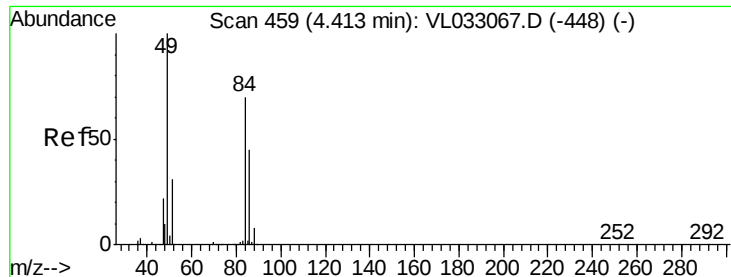
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 1.581 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

Tgt Ion: 84 Resp: 96272

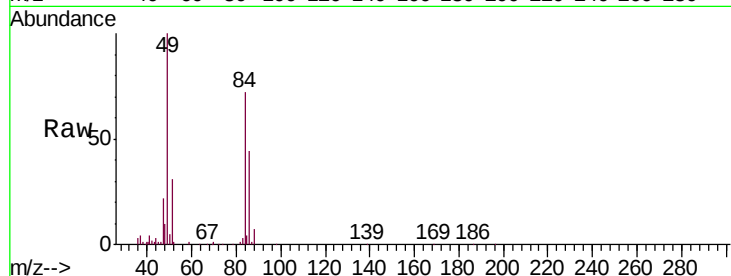
Ion Ratio Lower Upper

84 100

49 137.9 115.8 173.6

51 42.9 35.7 53.5

86 60.7 49.7 74.5

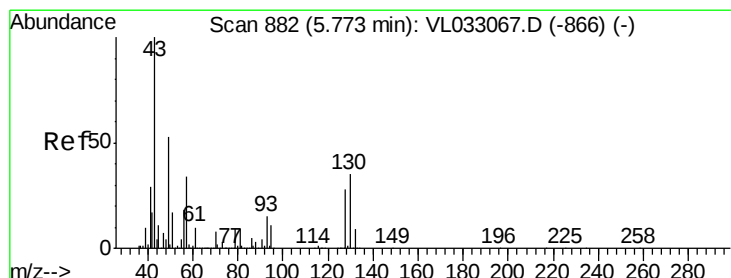
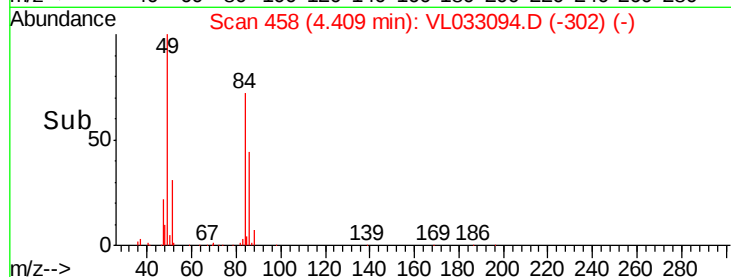
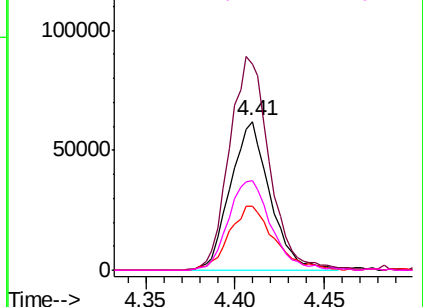


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.279 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Tgt Ion: 43 Resp: 68923

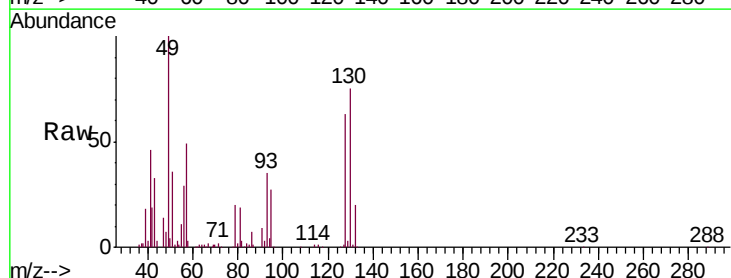
Ion Ratio Lower Upper

43 100

45 0.4 7.9 11.9#

61 0.0 7.8 11.8#

70 2.6 6.0 9.0#

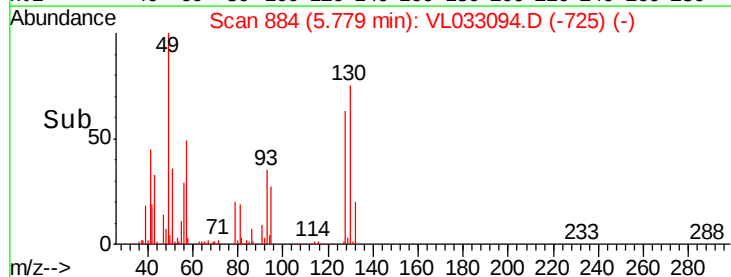
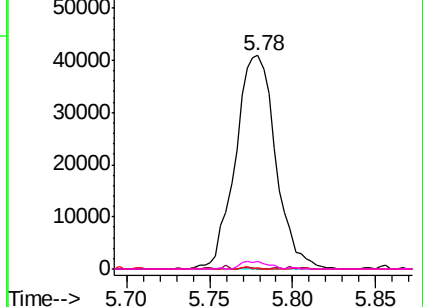


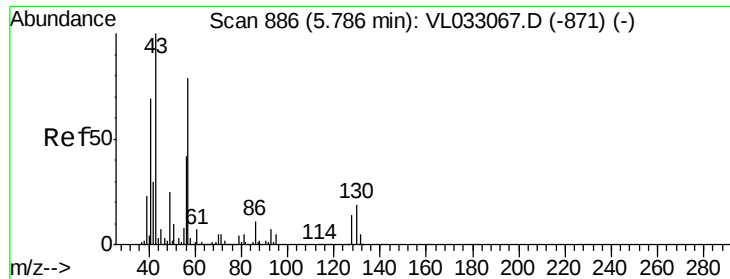
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.835 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

Tgt Ion: 57 Resp: 97107

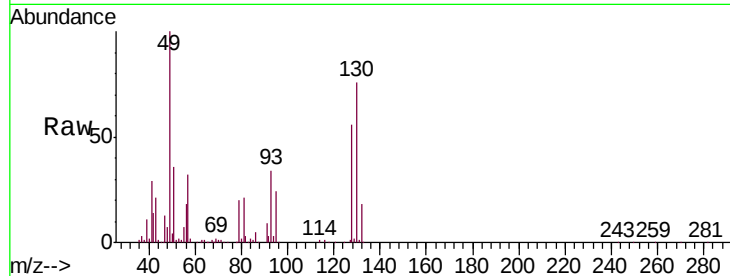
Ion Ratio Lower Upper

57 100

41 100.1 70.8 106.2

43 71.0 171.8 257.6#

56 59.0 41.9 62.9

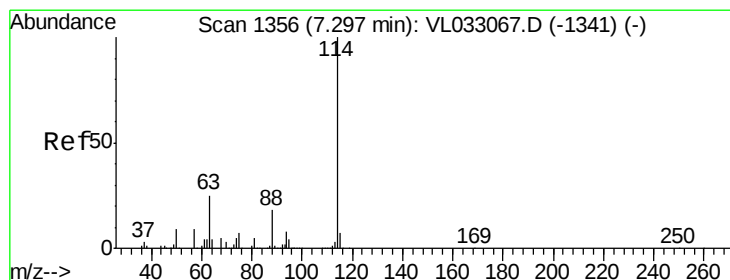
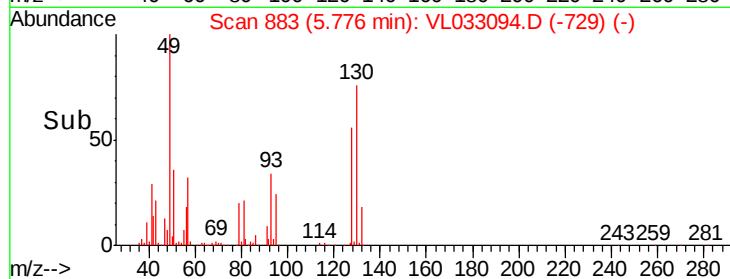
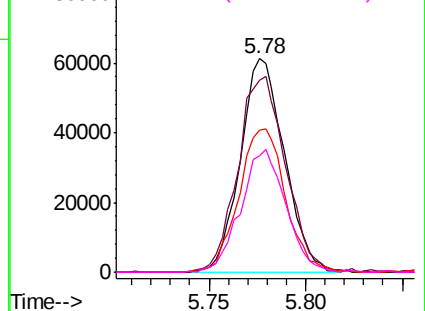


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

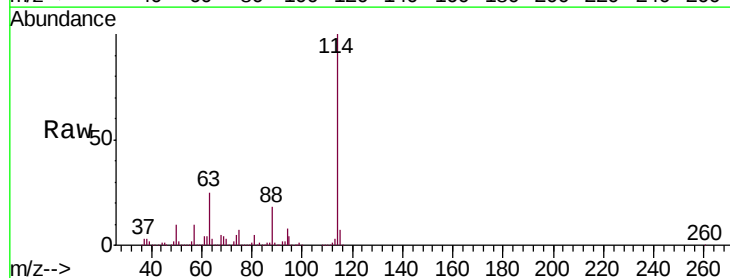
Tgt Ion: 114 Resp: 2543110

Ion Ratio Lower Upper

114 100

63 25.5 20.1 30.1

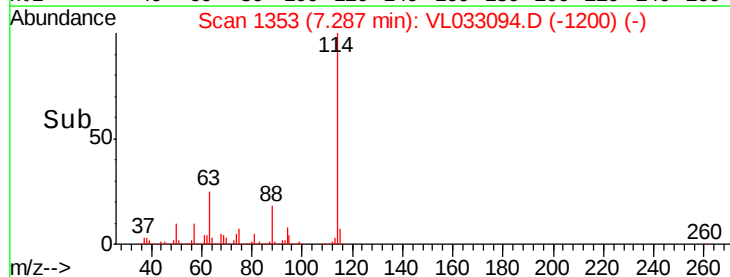
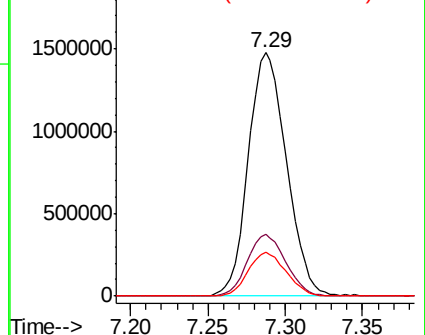
88 17.9 14.0 21.0

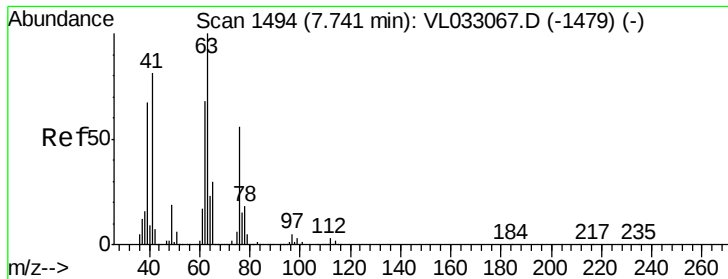


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 8.244 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

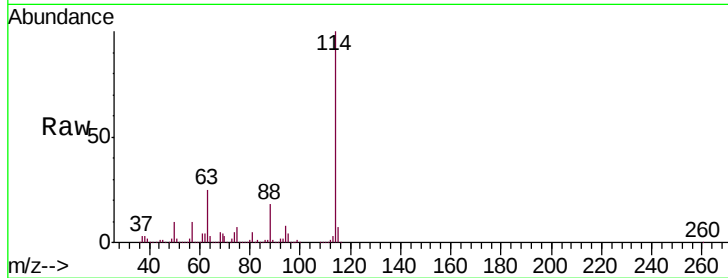
Tgt Ion: 63 Resp: 645137

Ion Ratio Lower Upper

63 100

41 0.1 61.9 92.9#

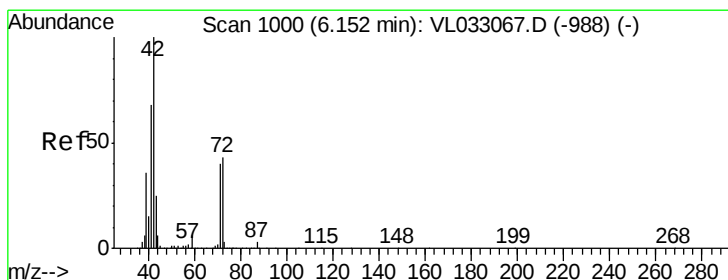
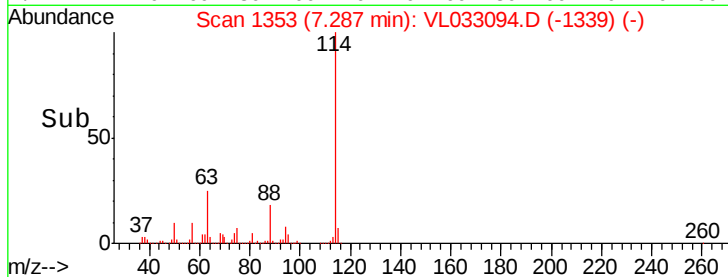
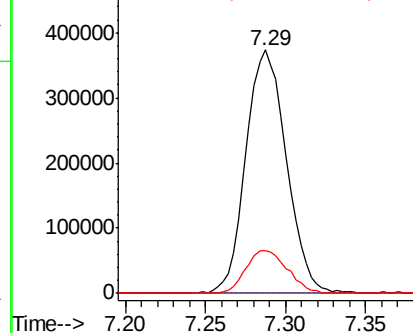
62 17.3 55.8 83.6#



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



#41

Tetrahydrofuran

Concen: 0.552 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.38 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

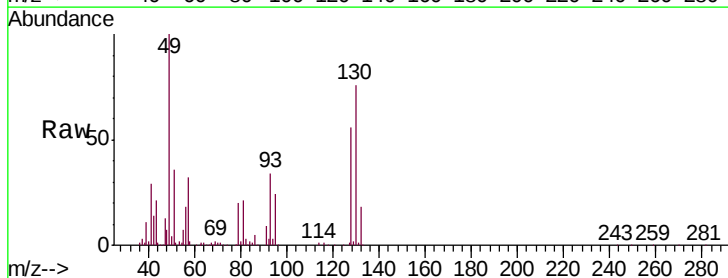
Tgt Ion: 42 Resp: 41534

Ion Ratio Lower Upper

42 100

72 0.9 32.9 49.3#

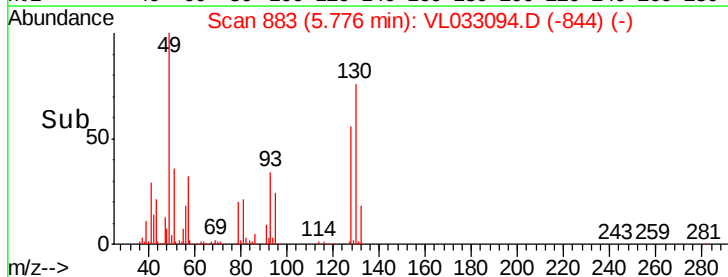
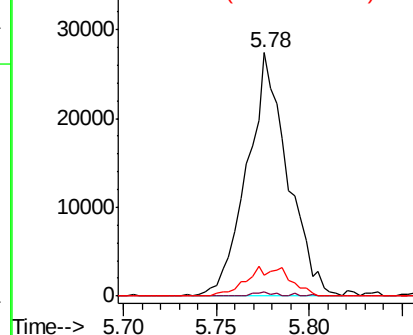
71 12.9 31.8 47.6#

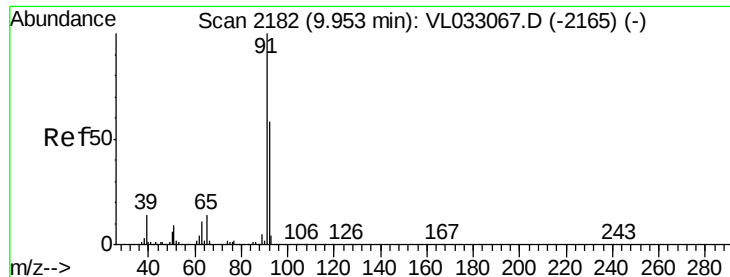


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.080 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

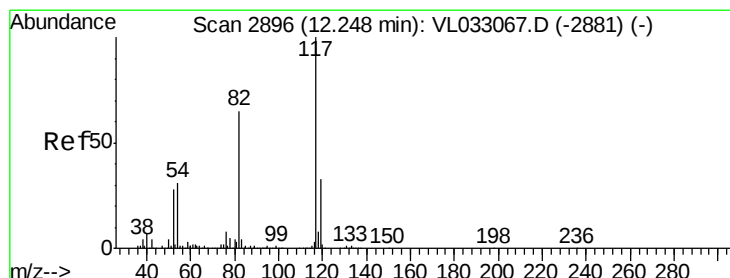
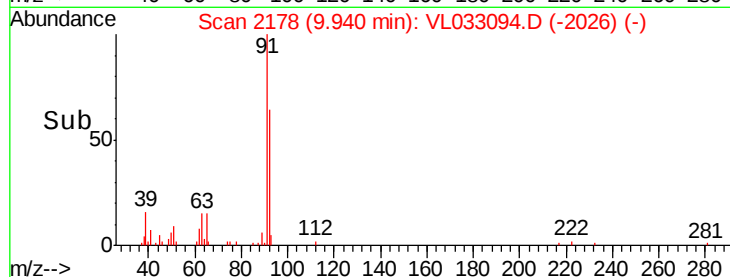
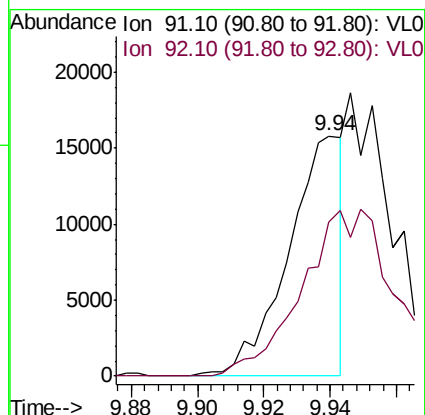
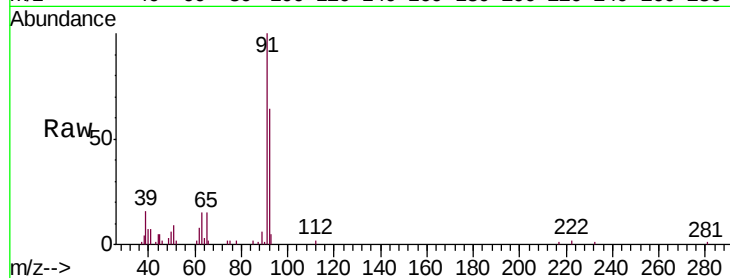
IA1ADL

Tgt Ion: 91 Resp: 17962

Ion Ratio Lower Upper

91 100

92 0.0 47.7 71.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

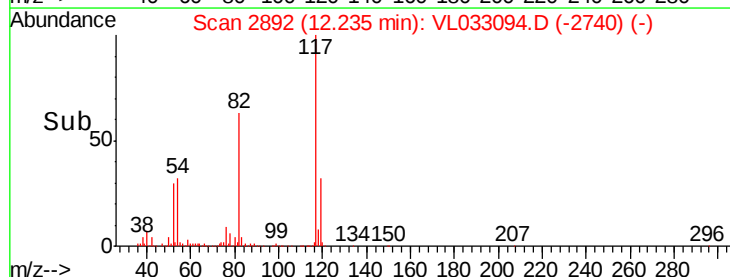
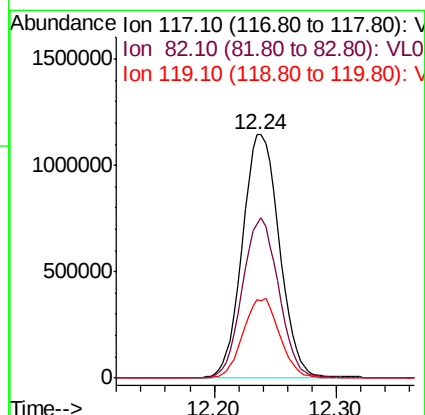
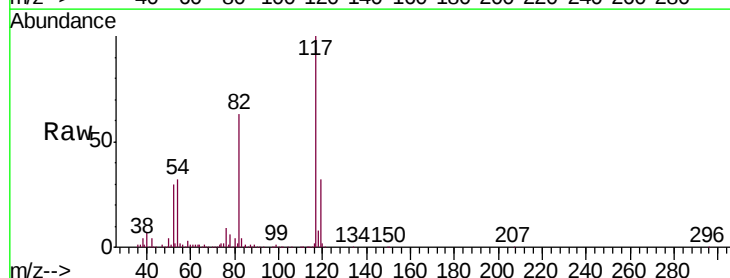
Tgt Ion: 117 Resp: 2401028

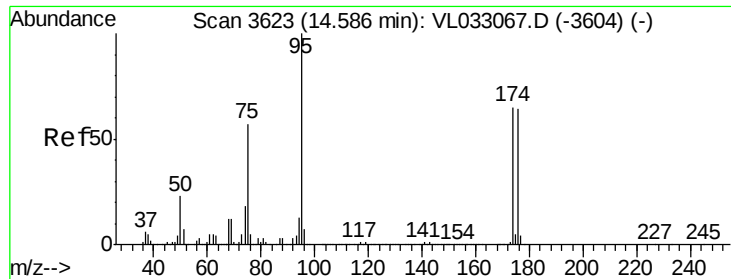
Ion Ratio Lower Upper

117 100

82 64.8 48.9 73.3

119 32.3 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.014 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033094.D
 Acq: 16 Jan 2019 16:19

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Tgt Ion: 95 Resp: 1842997
 Ion Ratio Lower Upper
 95 100
 174 65.2 51.9 77.9
 175 4.8 3.9 5.9

