

Data File : VL032393.D
Acq On : 17 Aug 2018 1:43
Operator : SY/AP
Sample : J4457-11DL 20X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS03-MIVIDL

Quant Time: Aug 17 03:22:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1806628	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3453131	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3396131	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.64 95 2589968 10.00 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.00%

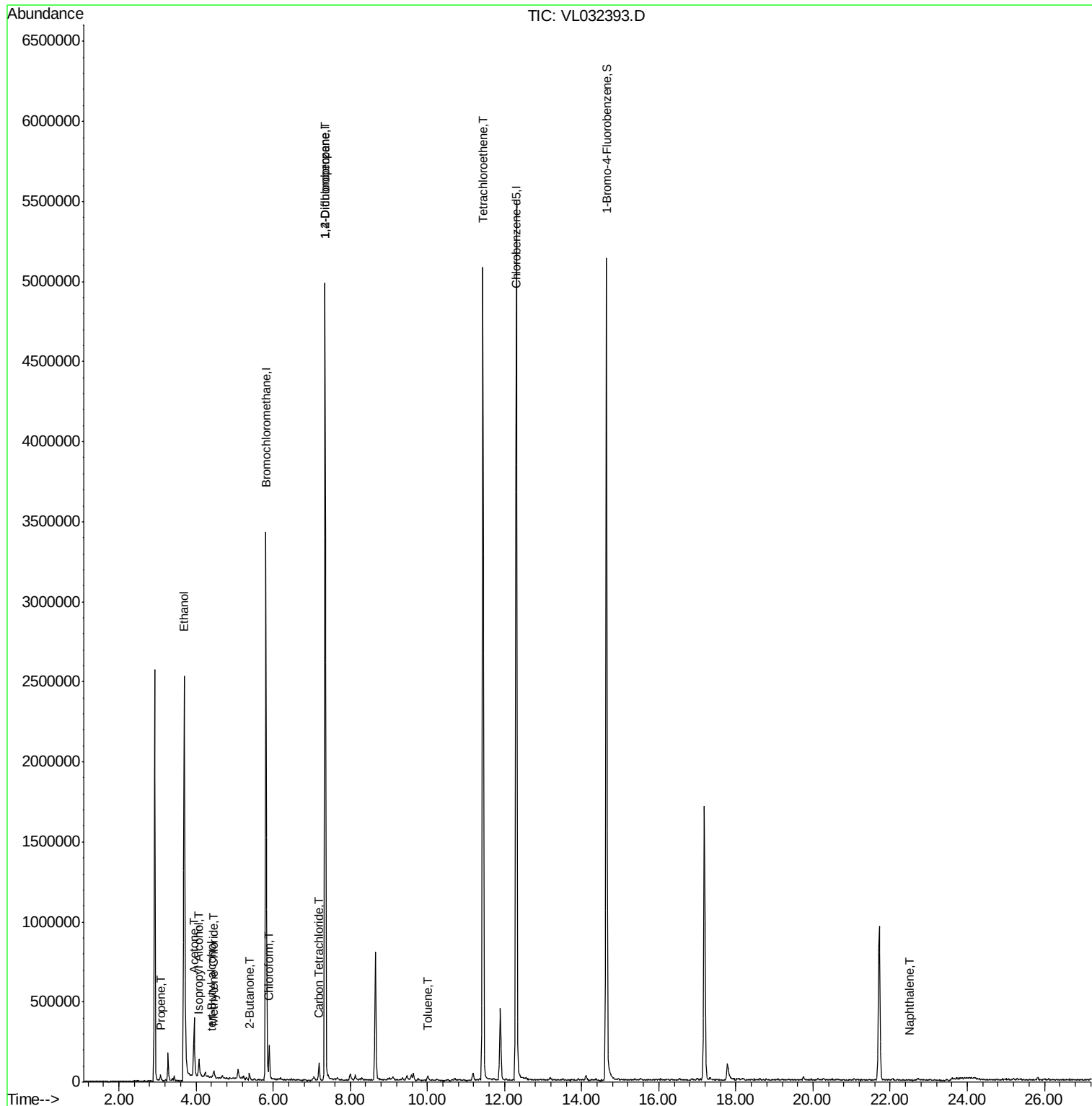
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	3660	Below Cal		97
9) Propene	3.08	41	8161	0.114	ppbv	97
13) Ethanol	3.69	45	3163721	171.981	ppbv	98
15) Acetone	3.95	43	354010	2.062	ppbv	98
17) tert-Butyl alcohol	4.41	59	1167	0.041	ppbv #	74
19) Isopropyl Alcohol	4.08	45	118081	1.022	ppbv #	92
20) Methylene Chloride	4.45	84	12002	0.185	ppbv	86
29) Chloroform	5.90	83	130776	0.544	ppbv	96
34) 2-Butanone	5.39	43	39756	0.169	ppbv	100
35) Carbon Tetrachloride	7.19	117	60224	0.296	ppbv	89
39) 1,2-Dichloropropane	7.35	63	972823	7.955	ppbv #	25
52) Tetrachloroethene	11.44	164	1210166	14.016	ppbv	98
53) Toluene	10.01	91	21294	0.066	ppbv	92
79) Naphthalene	22.49	128	1139	0.330	ppbv #	37

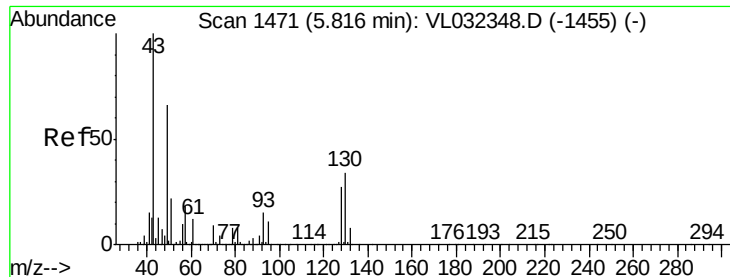
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

SS03-MIVIDL

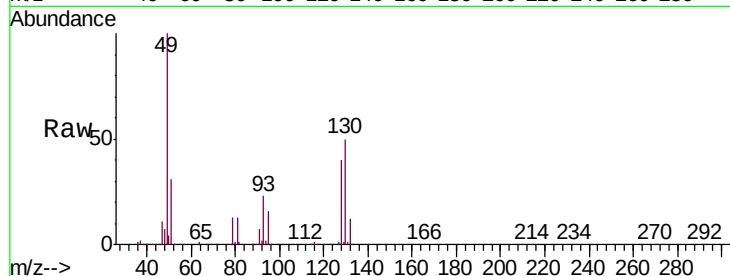
Tgt Ion: 49 Resp: 1806628

Ion Ratio Lower Upper

49 100

128 40.5 20.5 61.6

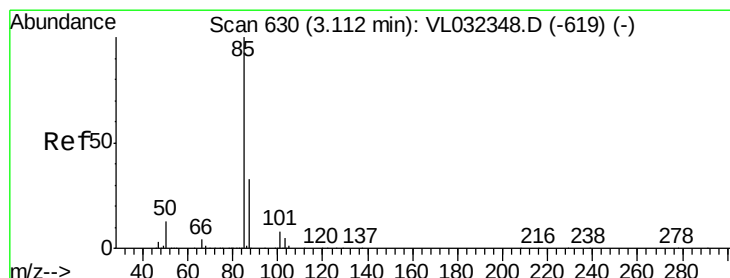
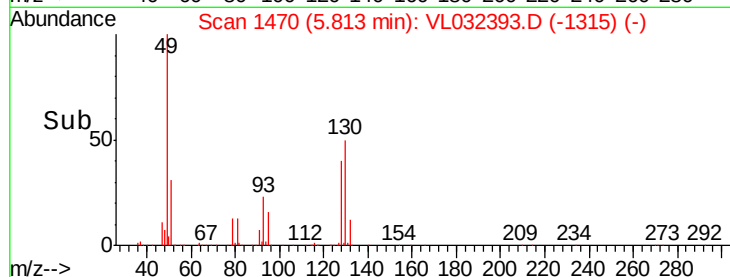
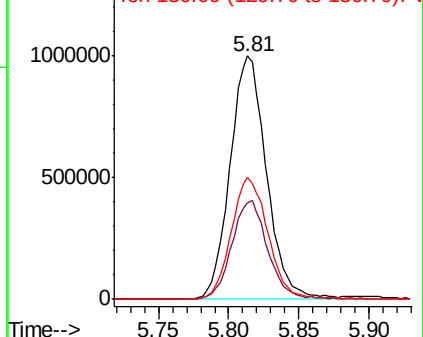
130 51.5 26.2 78.5



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: Below Cal

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032393.D

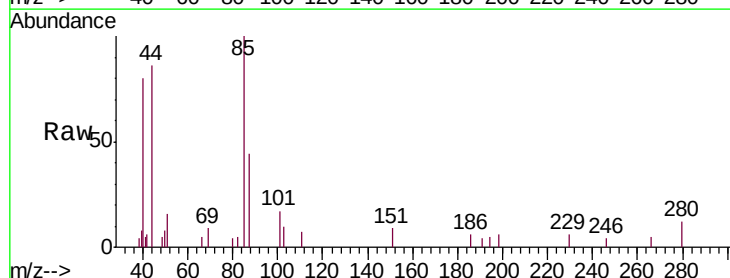
Acq: 17 Aug 2018 1:43

Tgt Ion: 85 Resp: 3660

Ion Ratio Lower Upper

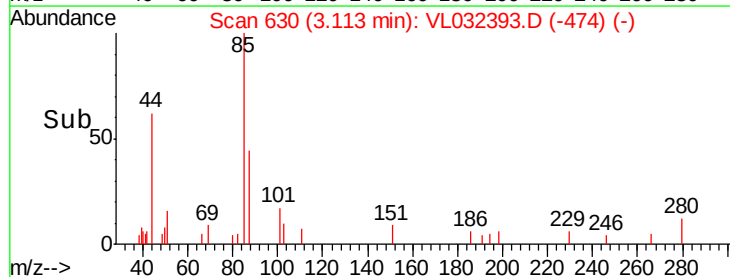
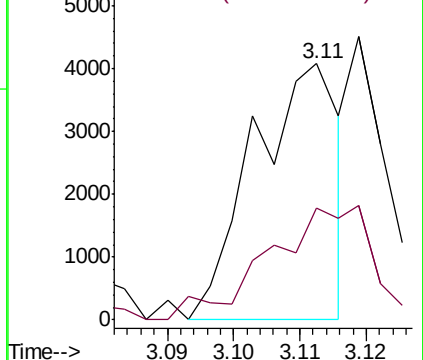
85 100

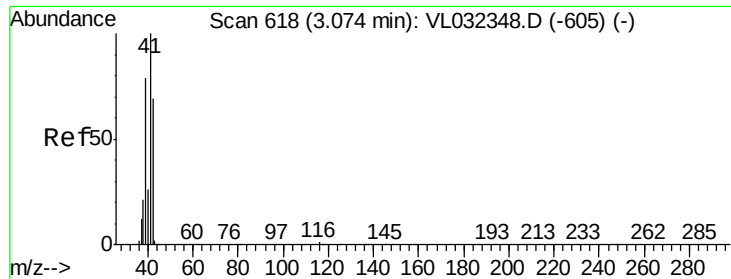
87 34.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.114 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.01 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Instrument :

MSVOA_L

ClientSampleId :

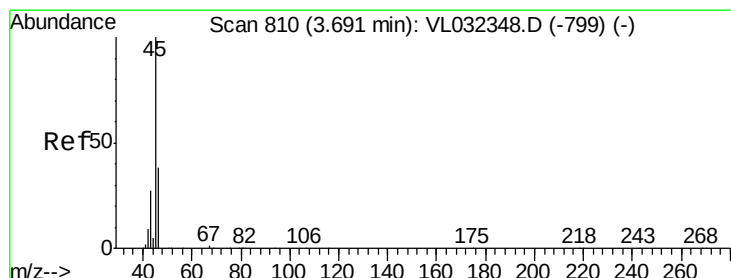
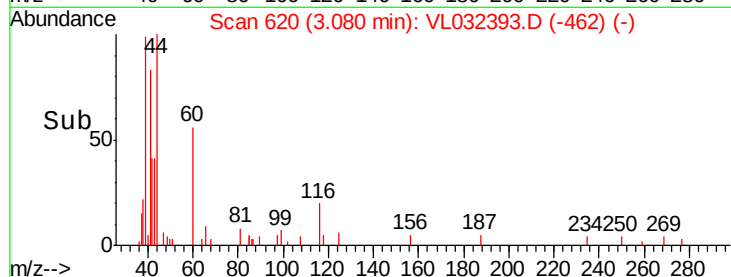
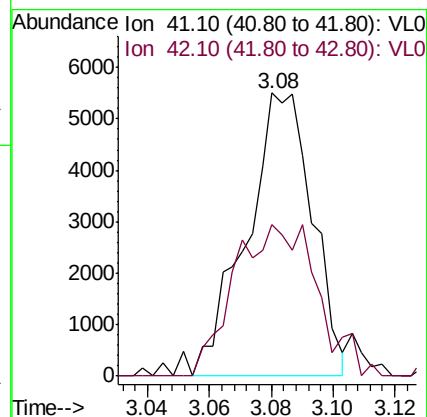
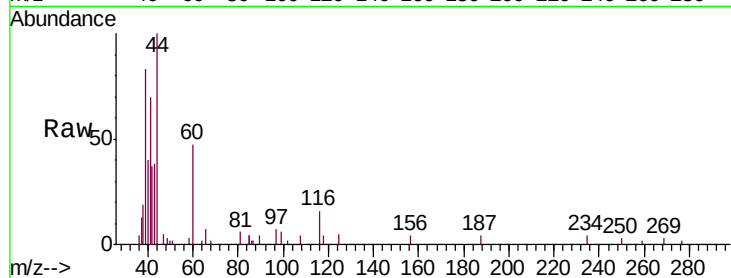
SS03-MIVIDL

Tgt Ion: 41 Resp: 8161

Ion Ratio Lower Upper

41 100

42 67.7 55.9 83.9



#13

Ethanol

Concen: 171.981 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL032393.D

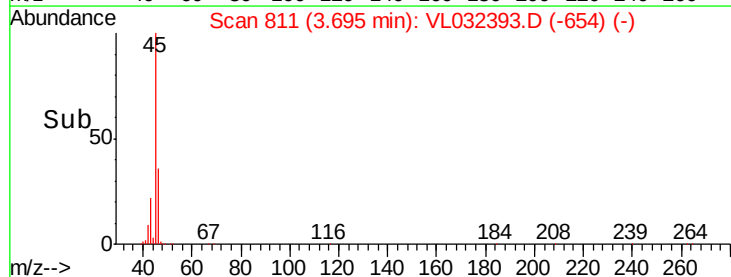
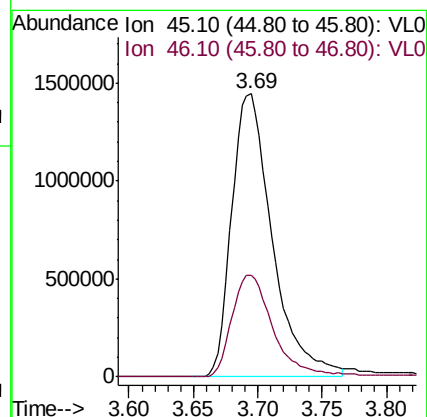
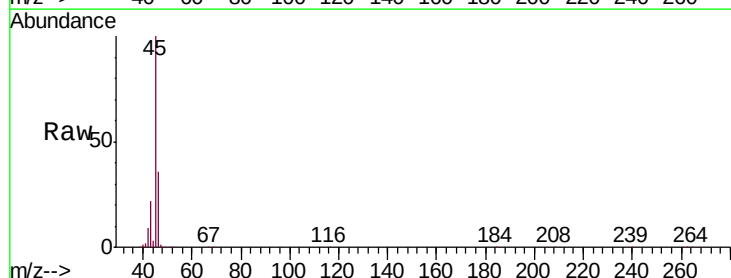
Acq: 17 Aug 2018 1:43

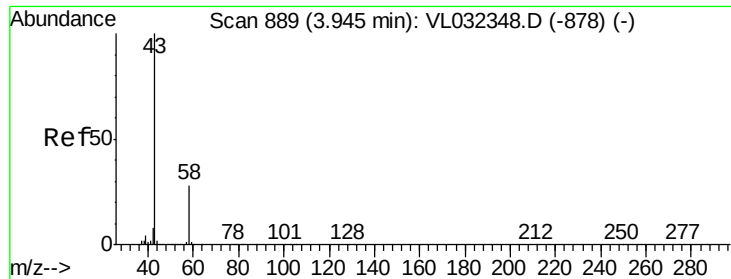
Tgt Ion: 45 Resp: 3163721

Ion Ratio Lower Upper

45 100

46 37.9 15.6 62.4





#15

Acetone

Concen: 2.062 ppbv

RT: 3.95 min Scan# 891

Delta R.T. 0.01 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Instrument :

MSVOA_L

ClientSampleId :

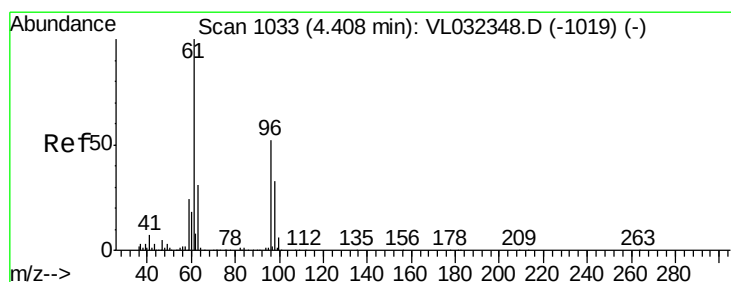
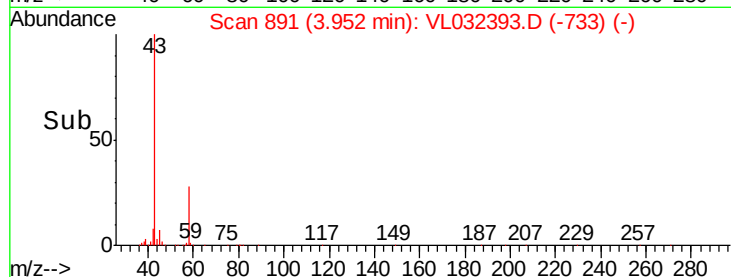
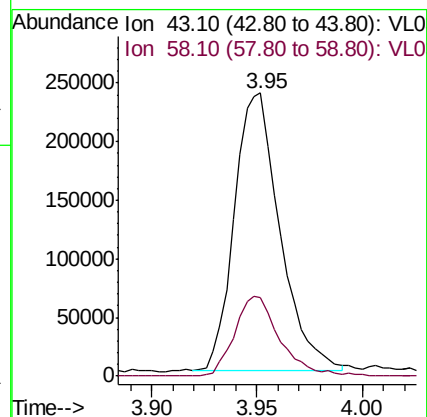
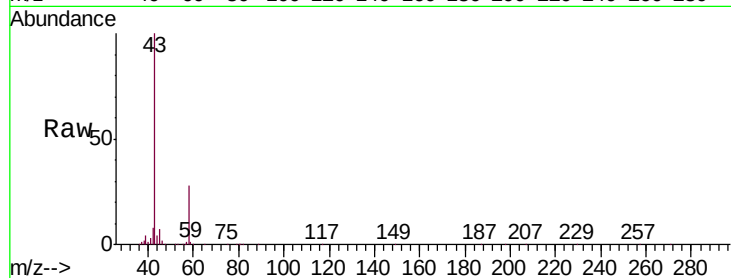
SS03-MIVIDL

Tgt Ion: 43 Resp: 354010

Ion Ratio Lower Upper

43 100

58 28.9 22.4 33.6



#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 4.41 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VL032393.D

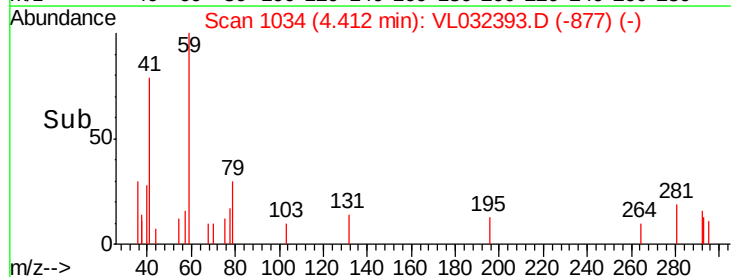
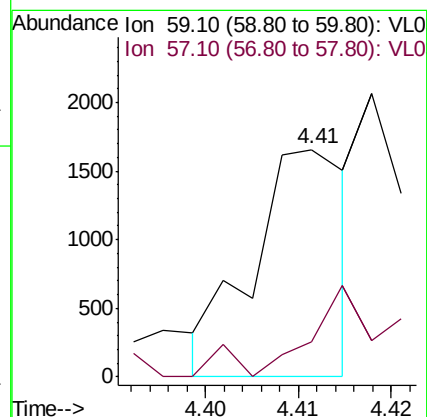
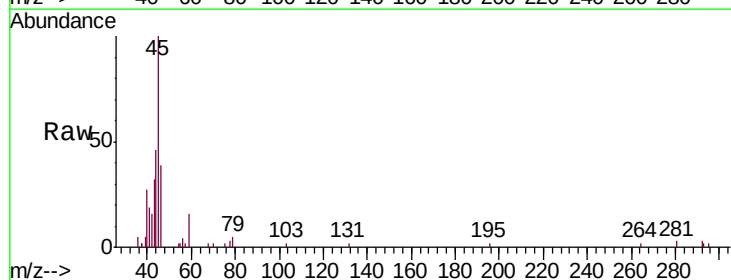
Acq: 17 Aug 2018 1:43

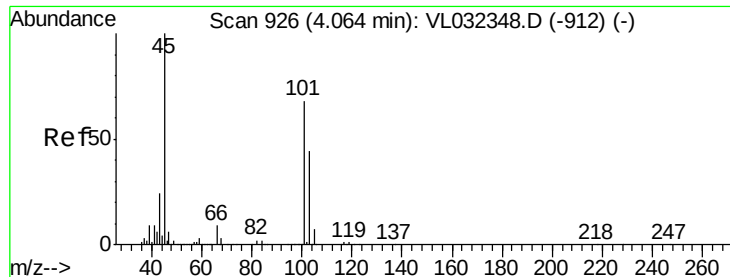
Tgt Ion: 59 Resp: 1167

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#





#19

Isopropyl Alcohol

Concen: 1.022 ppbv

RT: 4.08 min Scan# 930

Delta R.T. 0.01 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Instrument :

MSVOA_L

ClientSampleId :

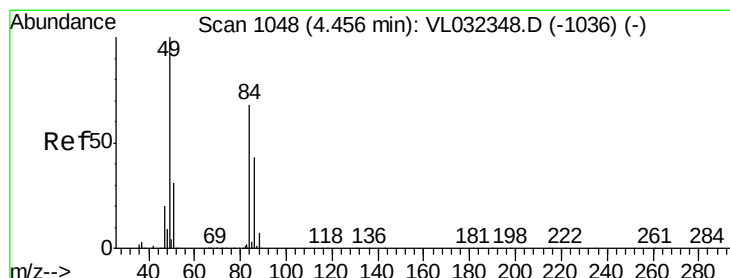
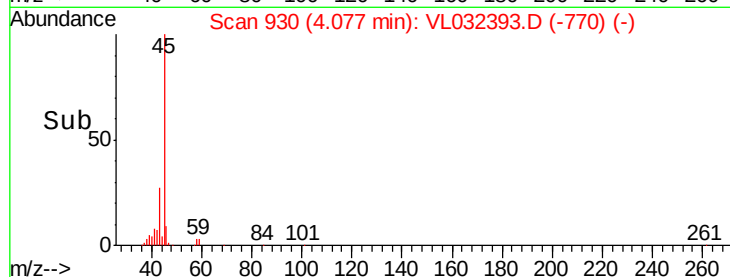
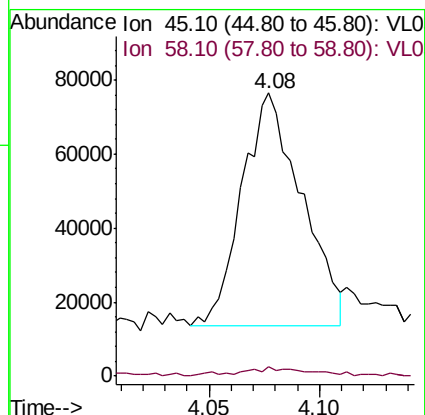
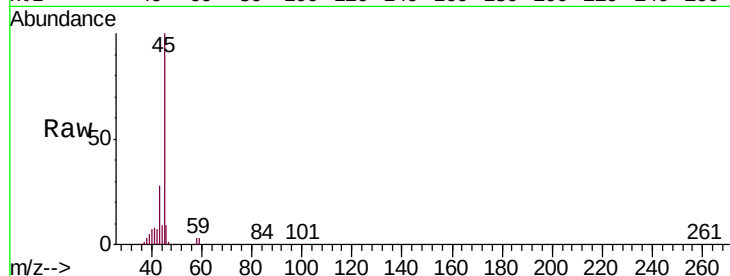
SS03-MIVIDL

Tgt Ion: 45 Resp: 118081

Ion Ratio Lower Upper

45 100

58 4.7 1.4 2.0#



#20

Methylene Chloride

Concen: 0.185 ppbv

RT: 4.45 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Tgt Ion: 84 Resp: 12002

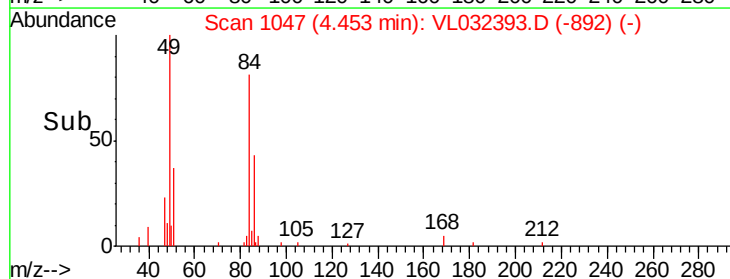
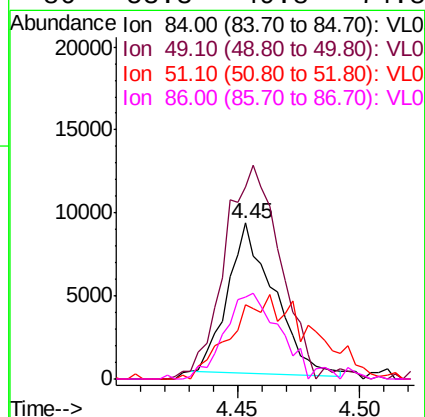
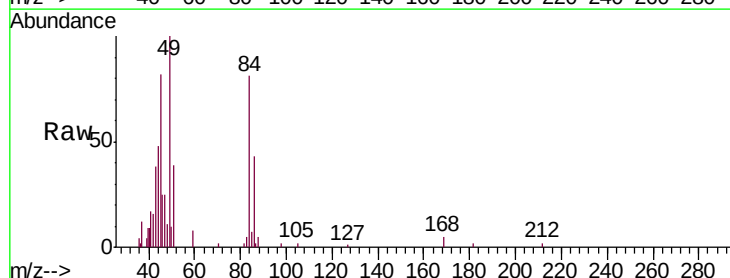
Ion Ratio Lower Upper

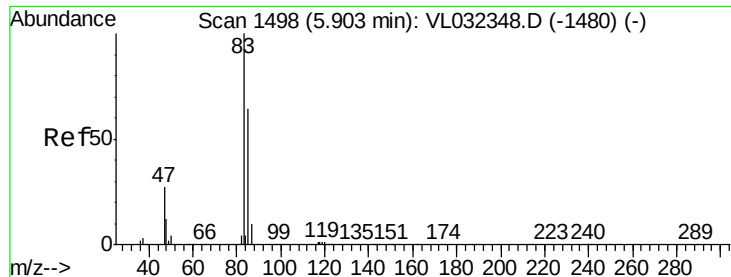
84 100

49 124.6 117.3 175.9

51 50.4 36.6 55.0

86 53.3 49.8 74.8





#29

Chloroform

Concen: 0.544 ppbv

RT: 5.90 min Scan# 1496

Delta R.T. -0.01 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Instrument :

MSVOA_L

ClientSampleId :

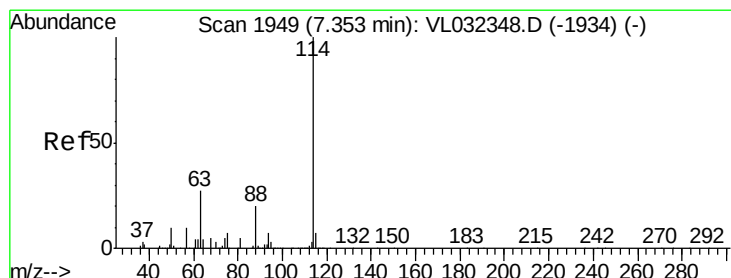
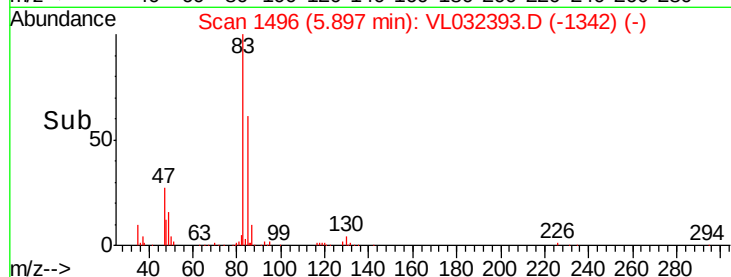
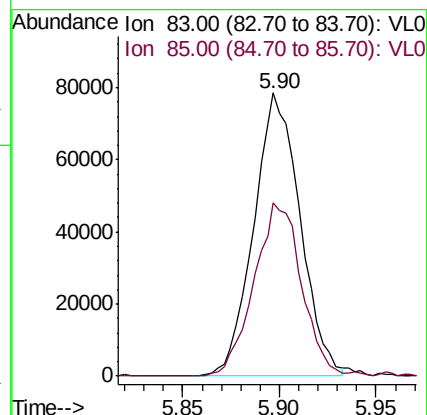
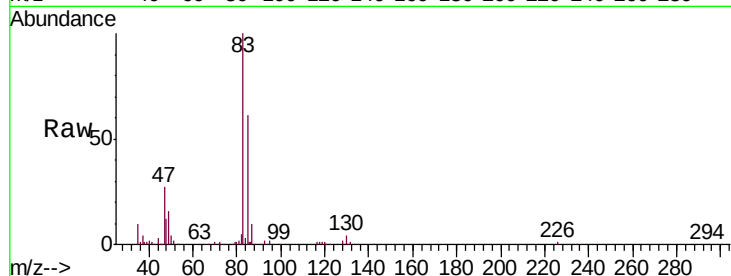
SS03-MIVIDL

Tgt Ion: 83 Resp: 130776

Ion Ratio Lower Upper

83 100

85 61.6 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

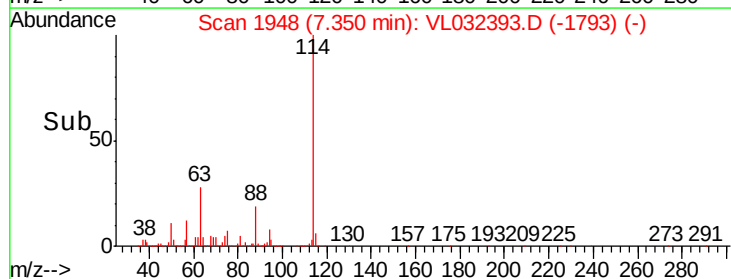
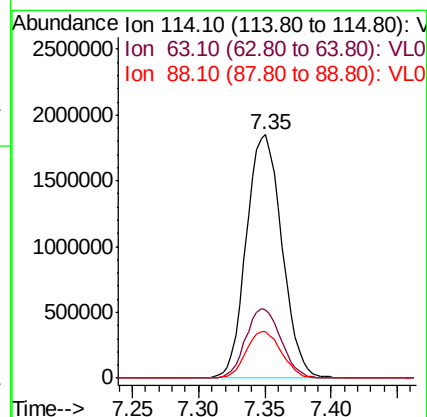
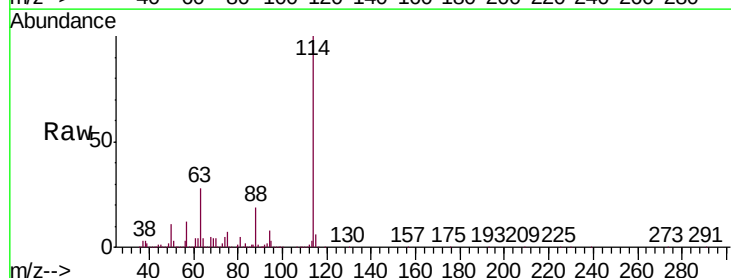
Tgt Ion: 114 Resp: 3453131

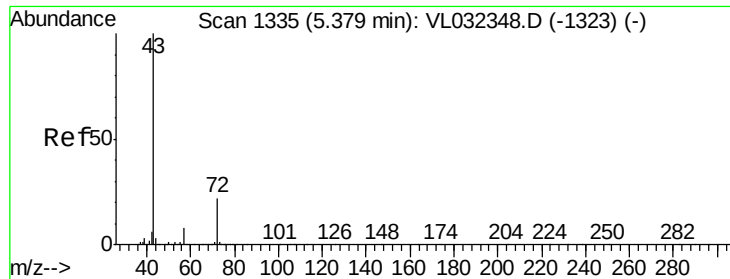
Ion Ratio Lower Upper

114 100

63 28.4 22.0 33.0

88 19.1 15.3 22.9

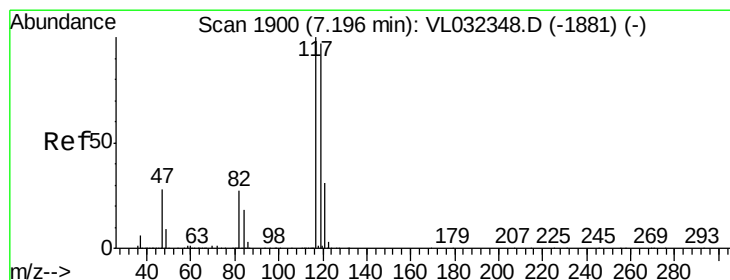
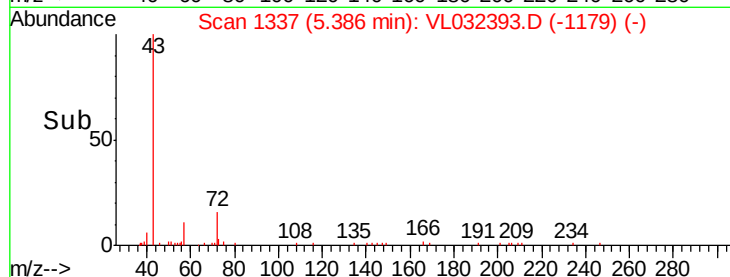
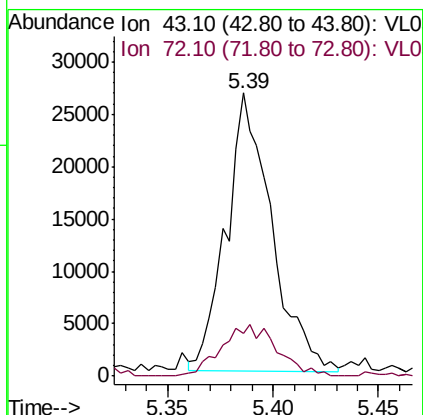
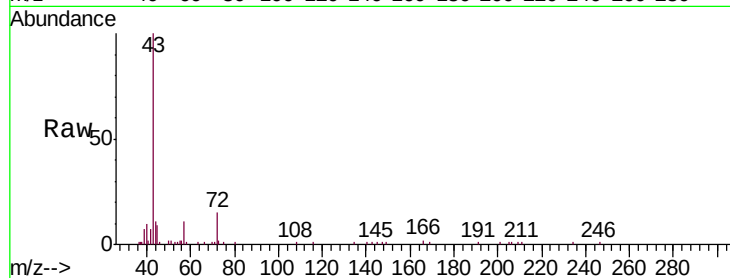




#34
2-Butanone
Concen: 0.169 ppbv
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VL032393.D
Acq: 17 Aug 2018 1:43

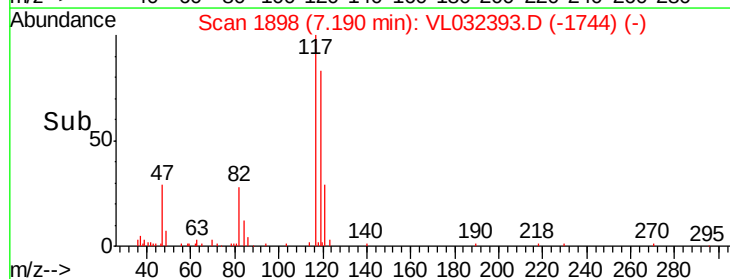
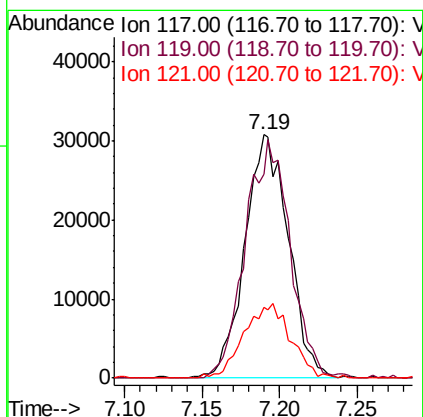
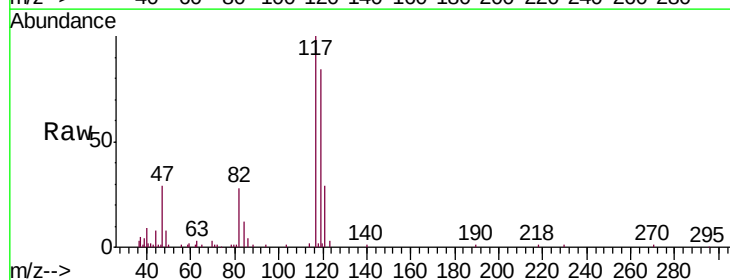
Instrument :
MSVOA_L
ClientSampleId :
SS03-MIVIDL

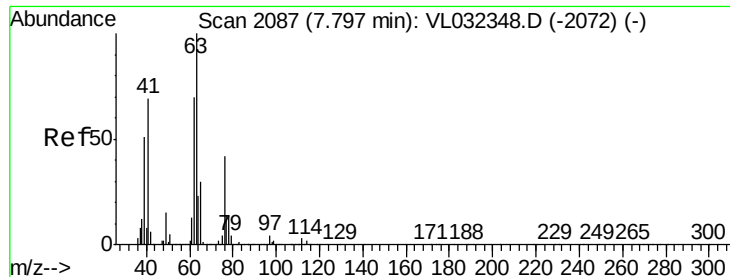
Tgt Ion: 43 Resp: 39756
Ion Ratio Lower Upper
43 100
72 22.5 17.9 26.9



#35
Carbon Tetrachloride
Concen: 0.296 ppbv
RT: 7.19 min Scan# 1898
Delta R.T. -0.01 min
Lab File: VL032393.D
Acq: 17 Aug 2018 1:43

Tgt Ion: 117 Resp: 60224
Ion Ratio Lower Upper
117 100
119 83.5 77.2 115.8
121 29.1 25.1 37.7





#39

1,2-Dichloropropane

Concen: 7.955 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. -0.45 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Instrument :

MSVOA_L

ClientSampleId :

SS03-MIVIDL

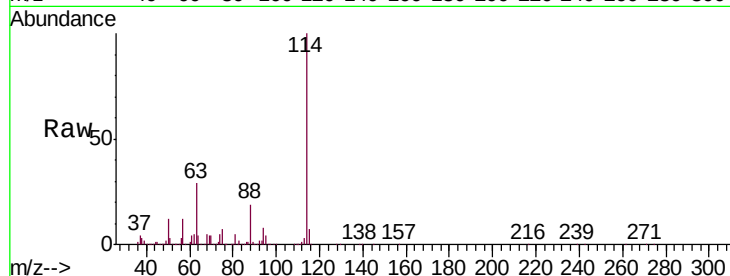
Tgt Ion: 63 Resp: 972823

Ion Ratio Lower Upper

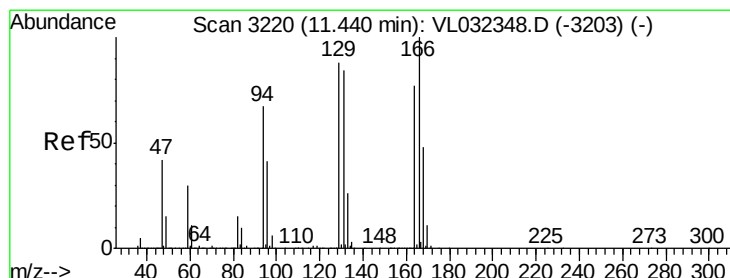
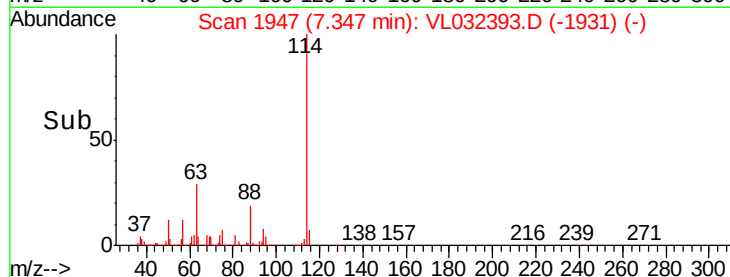
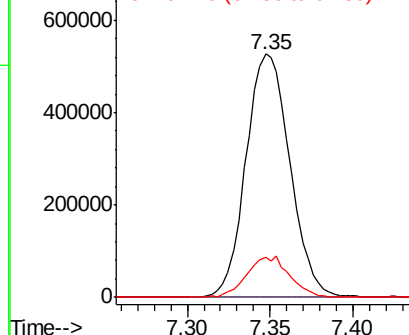
63 100

41 0.1 55.5 83.3#

62 16.4 56.3 84.5#



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



#52

Tetrachloroethene

Concen: 14.016 ppbv

RT: 11.44 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Tgt Ion: 164 Resp: 1210166

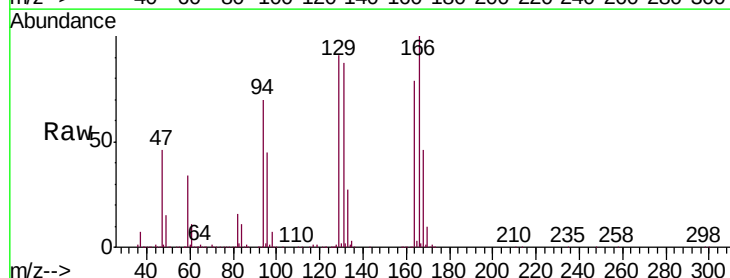
Ion Ratio Lower Upper

164 100

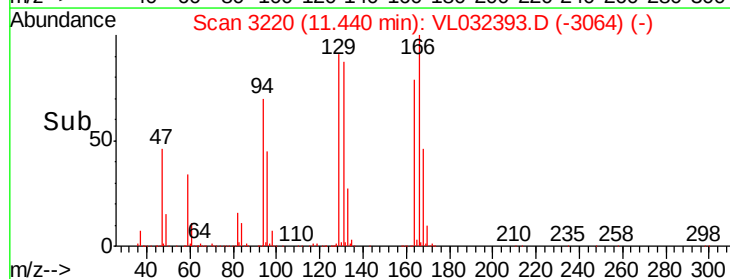
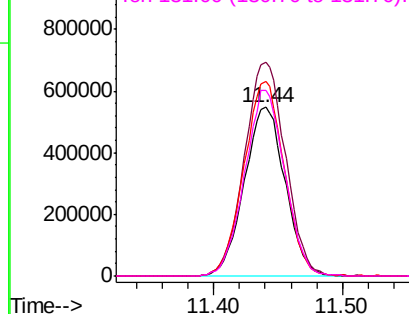
166 126.7 103.5 155.3

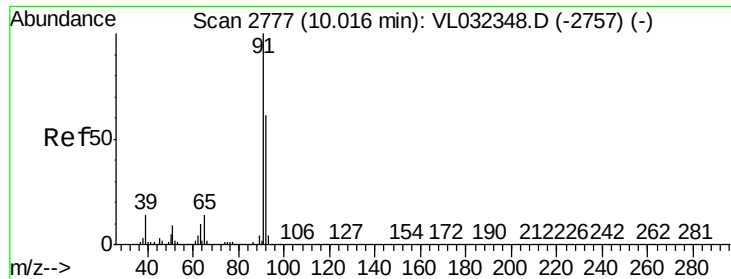
129 115.1 90.9 136.3

131 110.2 86.7 130.1



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





#53

Toluene

Concen: 0.066 ppbv

RT: 10.01 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

Instrument :

MSVOA_L

ClientSampleId :

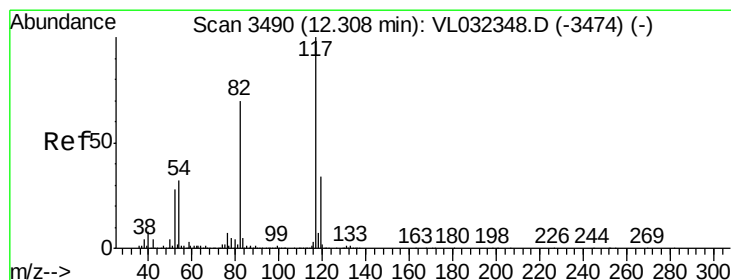
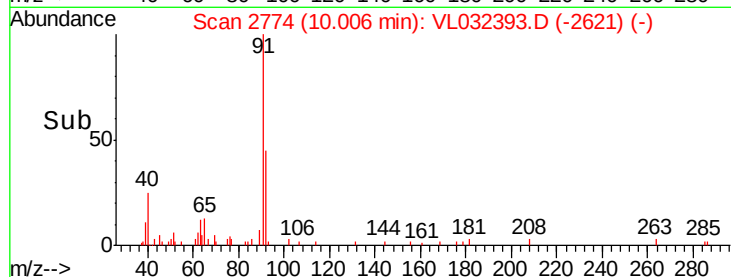
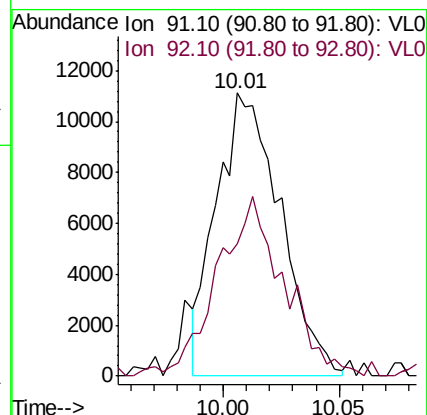
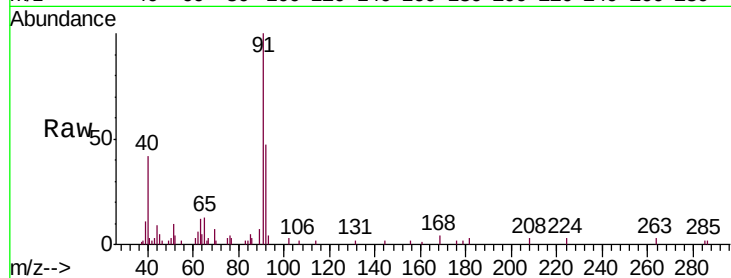
SS03-MIVIDL

Tgt Ion: 91 Resp: 21294

Ion Ratio Lower Upper

91 100

92 67.2 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.31 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032393.D

Acq: 17 Aug 2018 1:43

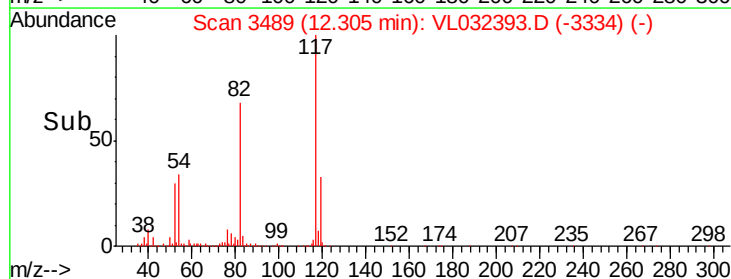
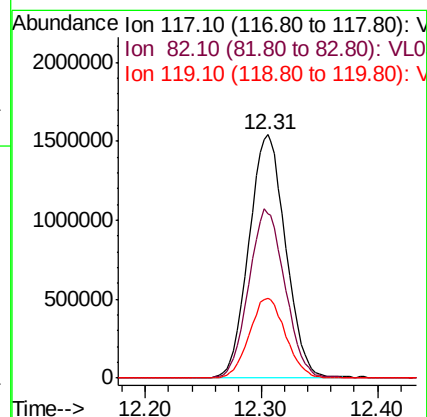
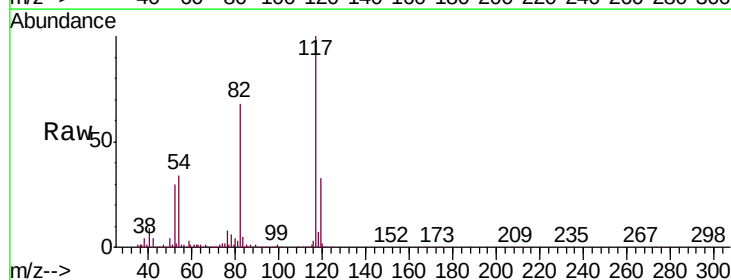
Tgt Ion: 117 Resp: 3396131

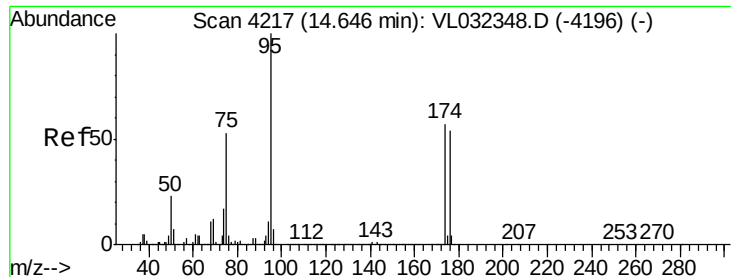
Ion Ratio Lower Upper

117 100

82 68.9 55.1 82.7

119 32.8 46.0 69.0#

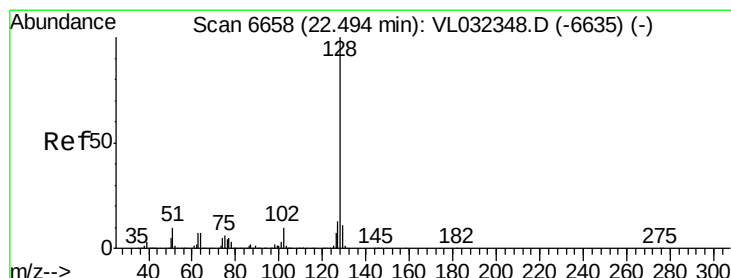
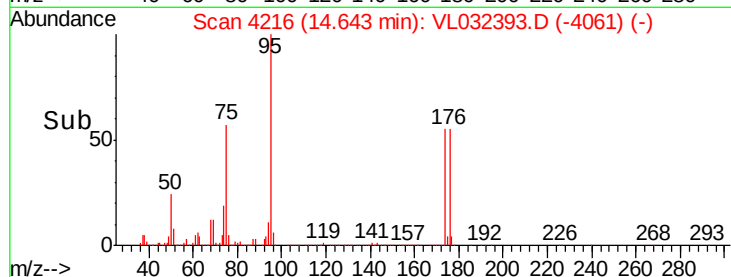
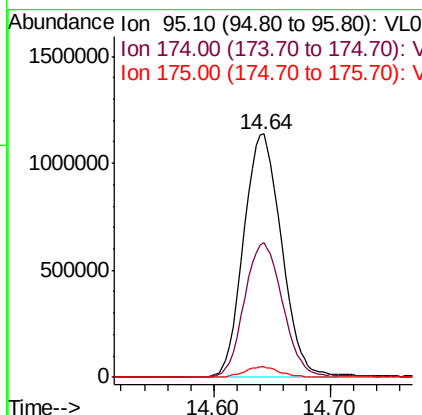
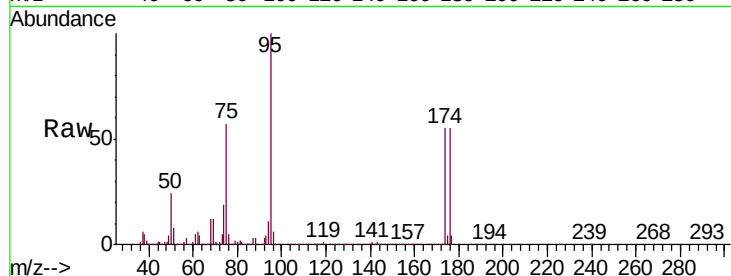




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.996 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.00 min
 Lab File: VL032393.D
 Acq: 17 Aug 2018 1:43

Instrument :
 MSVOA_L
 ClientSampleID :
 SS03-MIVIDL

Tgt Ion: 95 Resp: 2589968
 Ion Ratio Lower Upper
 95 100
 174 56.8 46.2 69.4
 175 4.1 3.4 5.0



#79
 Naphthalene
 Concen: 0.330 ppbv
 RT: 22.49 min Scan# 6657
 Delta R.T. -0.00 min
 Lab File: VL032393.D
 Acq: 17 Aug 2018 1:43

Tgt Ion: 128 Resp: 1139
 Ion Ratio Lower Upper
 128 100
 127 49.6 10.3 15.5#
 129 0.0 8.6 13.0#

