

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
 Data File : VL025813.D
 Acq On : 31 Jul 2015 15:01
 Operator : SY/MD
 Sample : G3144-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Quant Time: Aug 03 04:39:33 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	474128	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1235906	10.00	ppbv	0.01
55) Chlorobenzene-d5	13.76	117	1574654	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.30	95	1431305	10.78	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

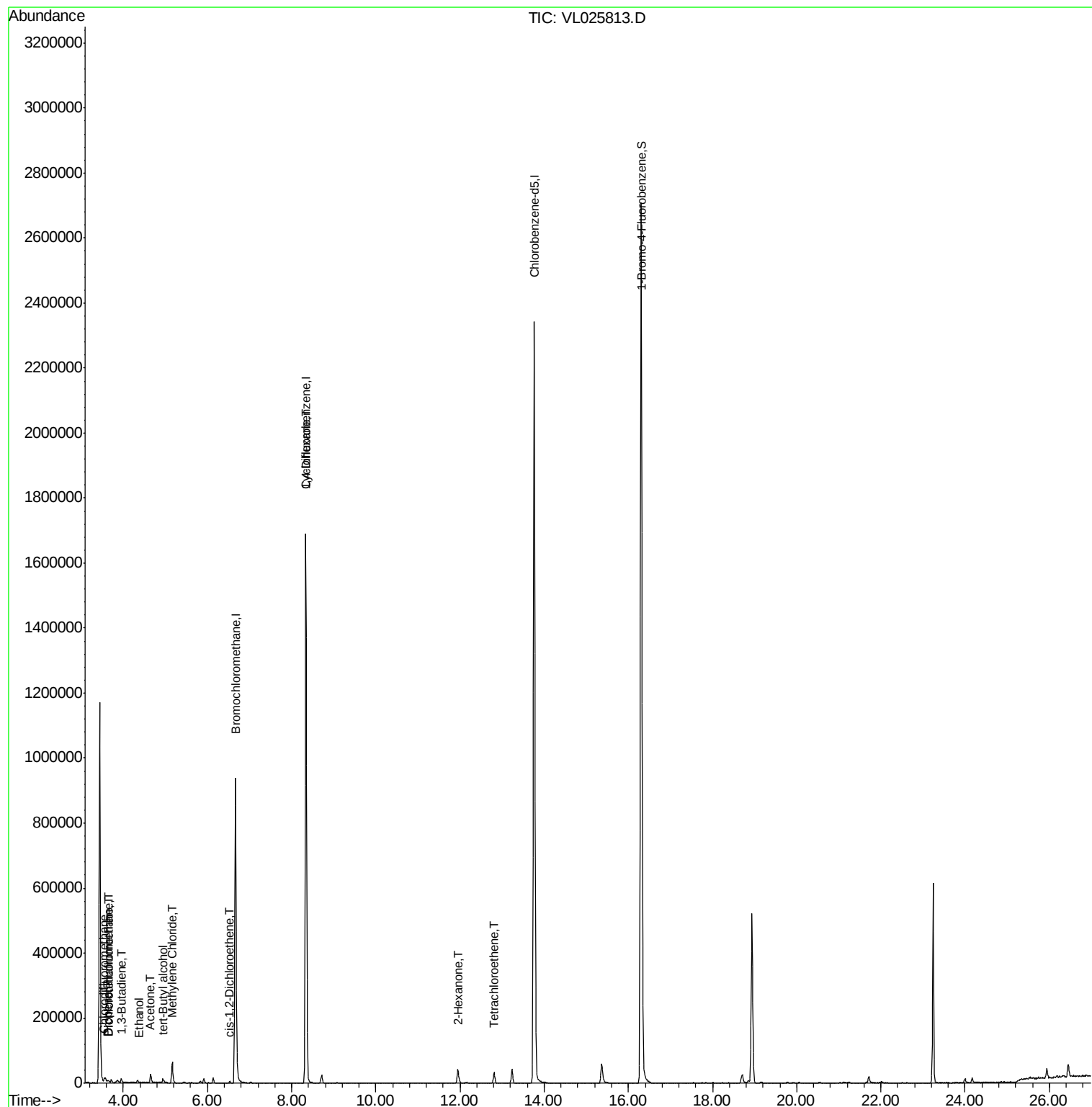
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	5680	0.05	ppbv	92
3) Chlorodifluoromethane	3.54	51	13704	0.21	ppbv #	61
8) Dichlorotetrafluoroethane	3.65	85	5680	0.05	ppbv #	17
9) Propene	3.62	41	1770	0.08	ppbv #	58
13) Ethanol	4.37	45	220	0.06	ppbv #	35
15) Acetone	4.65	43	30300	0.36	ppbv #	72
16) 1,3-Butadiene	3.95	39	1840	0.06	ppbv #	12
17) tert-Butyl alcohol	4.95	59	3080	0.04	ppbv #	69
20) Methylene Chloride	5.17	84	29419	0.86	ppbv	93
30) Cyclohexane	8.33	84	6931	0.12	ppbv #	1
31) cis-1,2-Dichloroethene	6.53	61	3431	0.06	ppbv	97
51) 2-Hexanone	11.94	43	9680	0.11	ppbv #	46
52) Tetrachloroethene	12.81	164	7603	0.13	ppbv	91

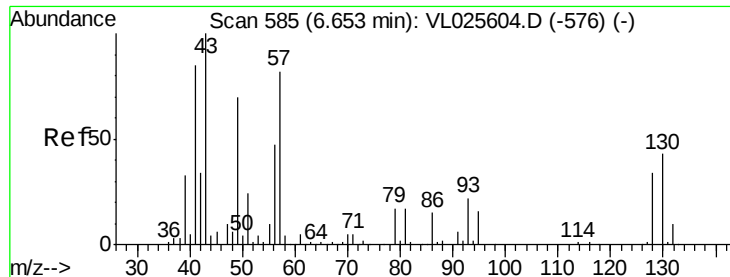
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 03 04:39:33 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
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QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.01 min

Lab File: VL025813.D

Acq: 31 Jul 2015 15:01

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

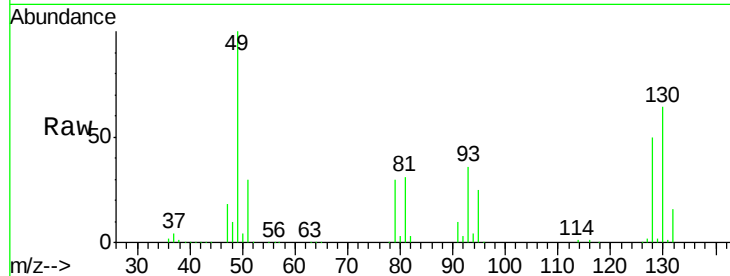
Tgt Ion: 49 Resp: 474128

Ion Ratio Lower Upper

49 100

128 51.4 25.4 76.0

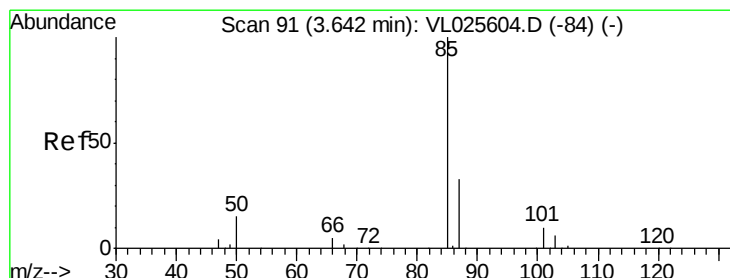
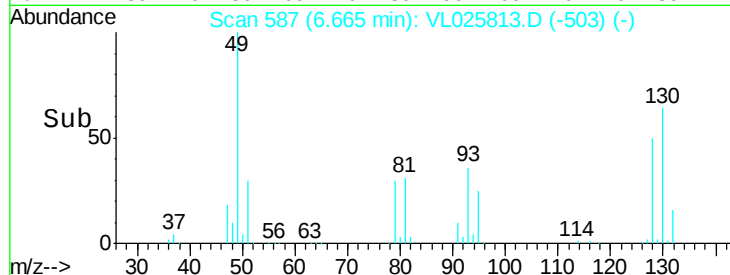
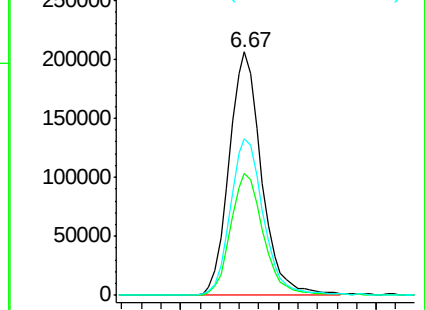
130 66.7 31.9 95.9



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: 0.05 ppbv

RT: 3.65 min Scan# 93

Delta R.T. 0.01 min

Lab File: VL025813.D

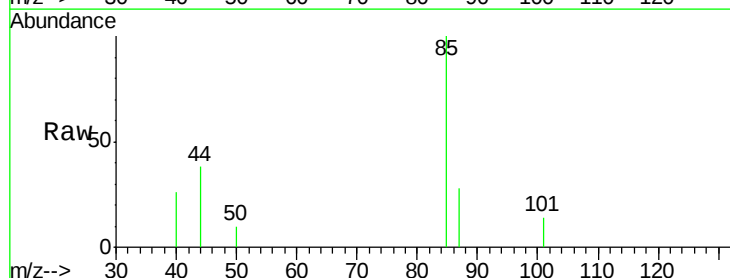
Acq: 31 Jul 2015 15:01

Tgt Ion: 85 Resp: 5680

Ion Ratio Lower Upper

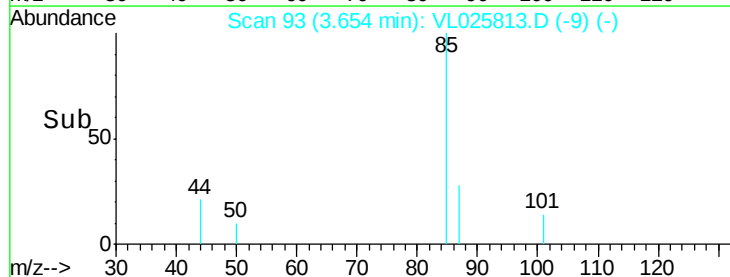
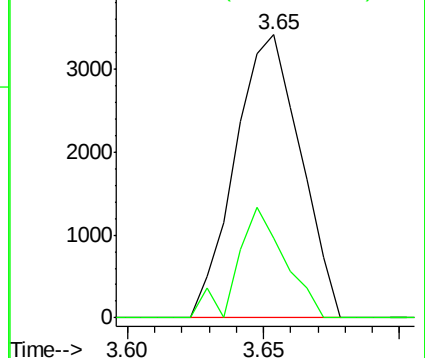
85 100

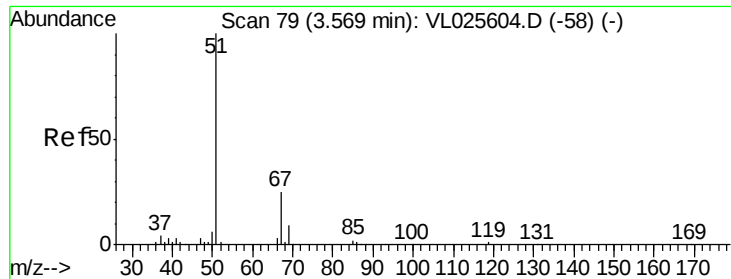
87 28.3 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

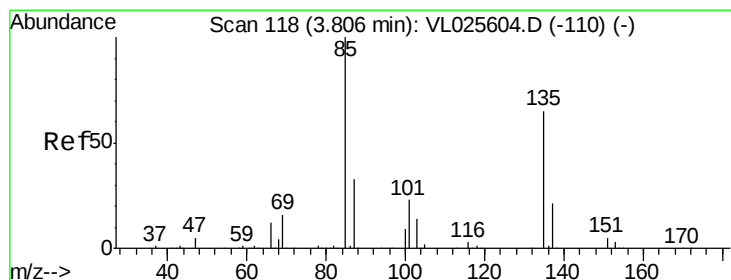
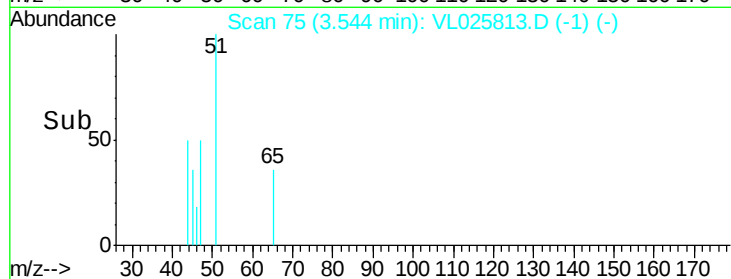
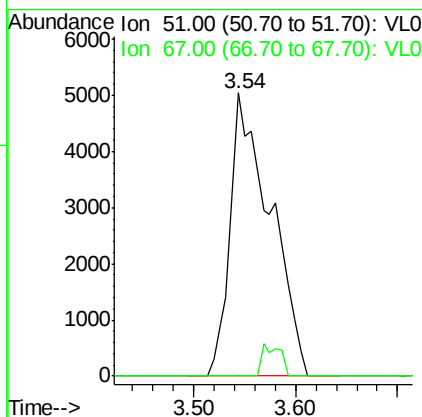
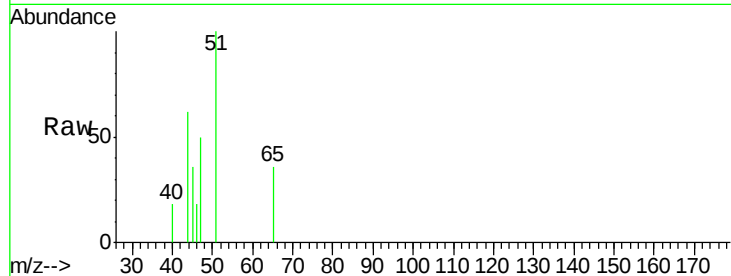




#3
 Chlorodifluoromethane
 Concen: 0.21 ppbv
 RT: 3.54 min Scan# 75
 Delta R.T. -0.02 min
 Lab File: VL025813.D
 Acq: 31 Jul 2015 15:01

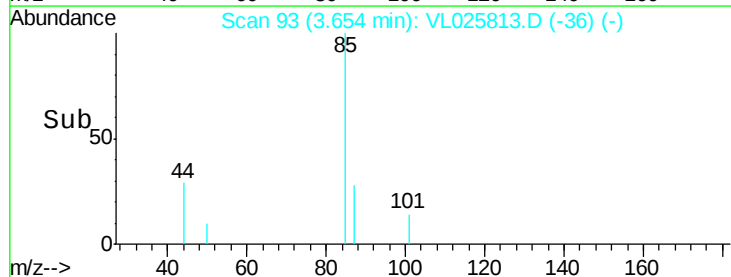
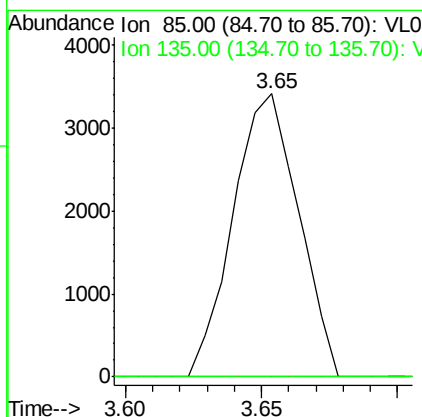
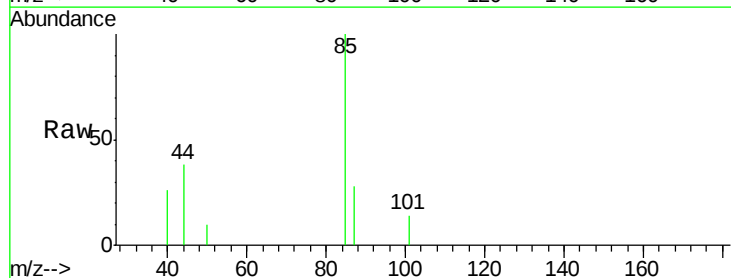
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

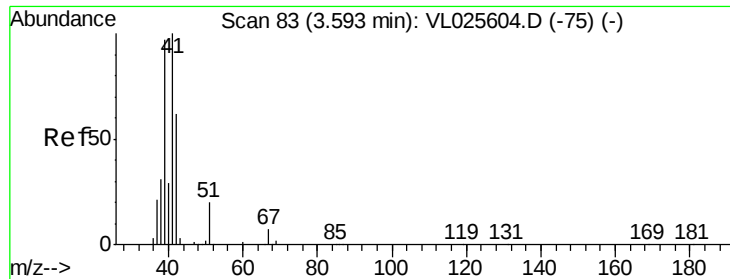
Tgt Ion: 51 Resp: 13704
 Ion Ratio Lower Upper
 51 100
 67 5.2 19.5 29.3#



#8
 Dichlorotetrafluoroethane
 Concen: 0.05 ppbv
 RT: 3.65 min Scan# 93
 Delta R.T. -0.15 min
 Lab File: VL025813.D
 Acq: 31 Jul 2015 15:01

Tgt Ion: 85 Resp: 5680
 Ion Ratio Lower Upper
 85 100
 135 0.0 52.2 78.4#





#9

Propene

Concen: 0.08 ppbv

RT: 3.62 min Scan# 88

Delta R.T. 0.03 min

Lab File: VL025813.D

Acq: 31 Jul 2015 15:01

Instrument :

MSVOA_L

ClientSampleId :

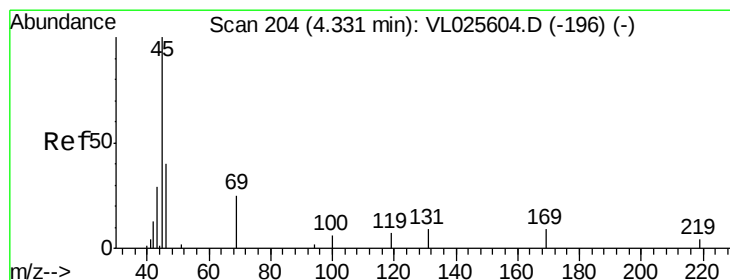
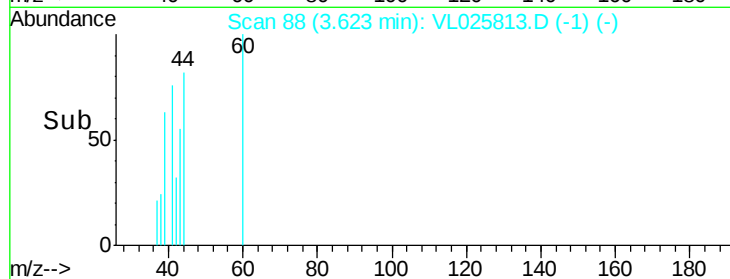
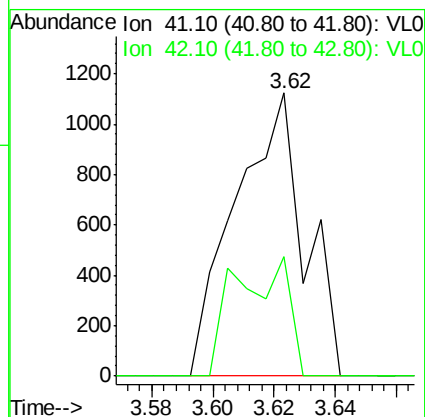
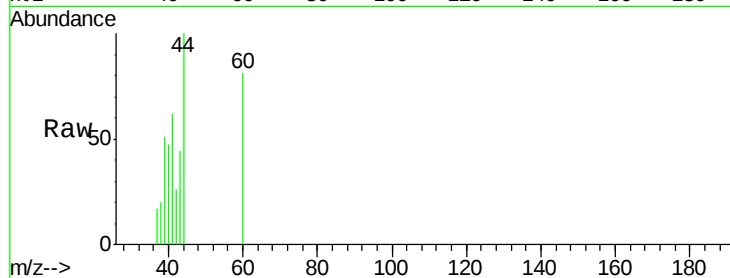
EFFLUENTDL

Tgt Ion: 41 Resp: 1770

Ion Ratio Lower Upper

41 100

42 32.2 52.4 78.6#



#13

Ethanol

Concen: 0.06 ppbv

RT: 4.37 min Scan# 211

Delta R.T. 0.04 min

Lab File: VL025813.D

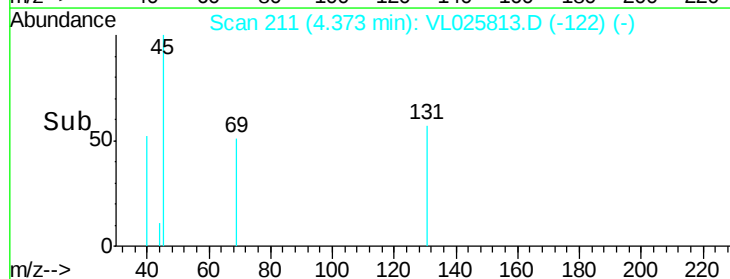
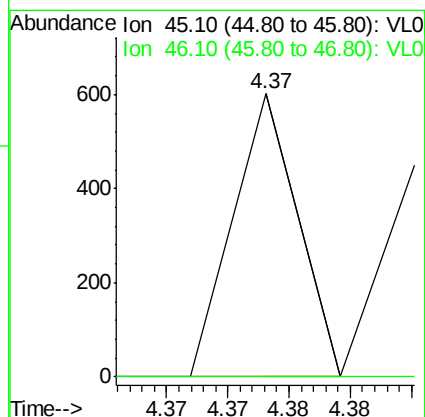
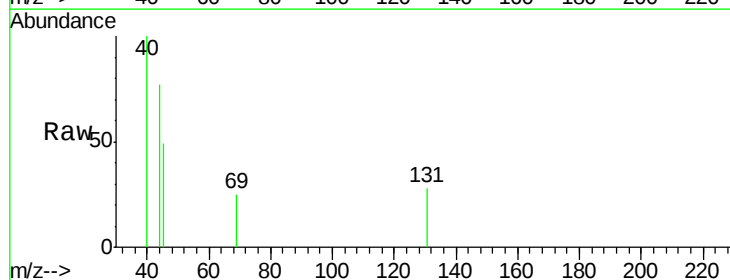
Acq: 31 Jul 2015 15:01

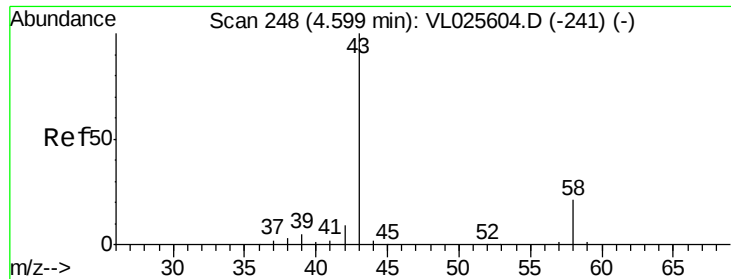
Tgt Ion: 45 Resp: 220

Ion Ratio Lower Upper

45 100

46 0.0 16.0 64.0#





#15

Acetone

Concen: 0.36 ppbv

RT: 4.65 min Scan# 257

Delta R.T. 0.05 min

Lab File: VL025813.D

Acq: 31 Jul 2015 15:01

Instrument :

MSVOA_L

ClientSampleId :

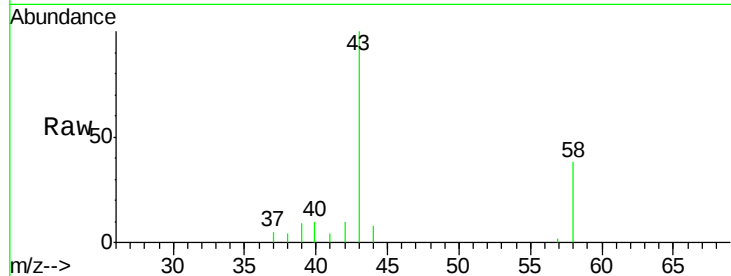
EFFLUENTDL

Tgt Ion: 43 Resp: 30300

Ion Ratio Lower Upper

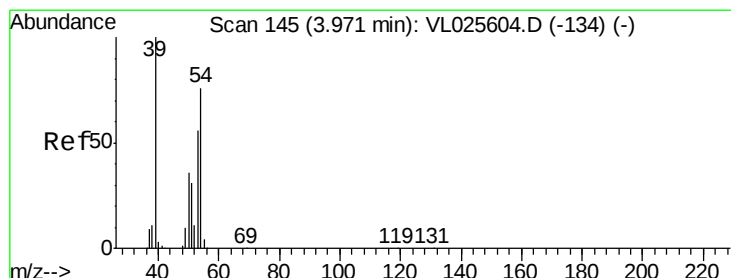
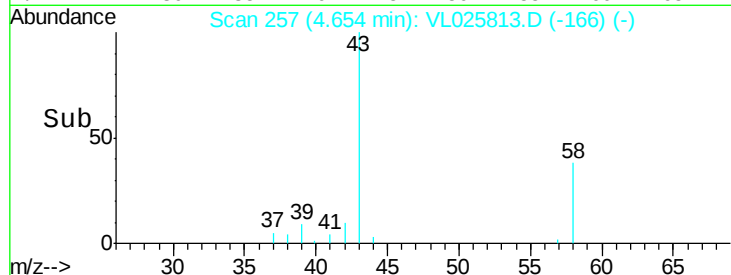
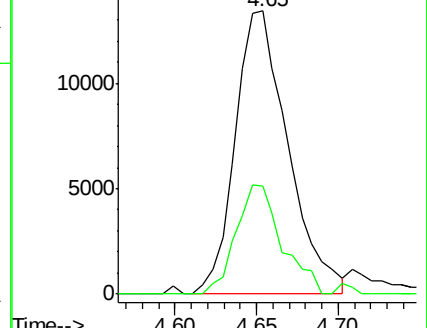
43 100

58 34.6 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.06 ppbv

RT: 3.95 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL025813.D

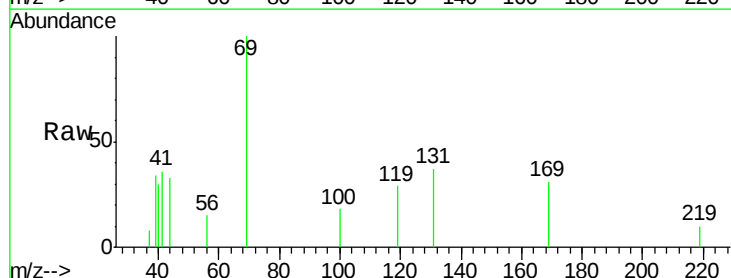
Acq: 31 Jul 2015 15:01

Tgt Ion: 39 Resp: 1840

Ion Ratio Lower Upper

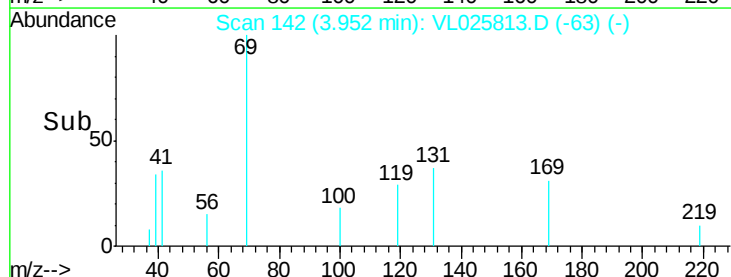
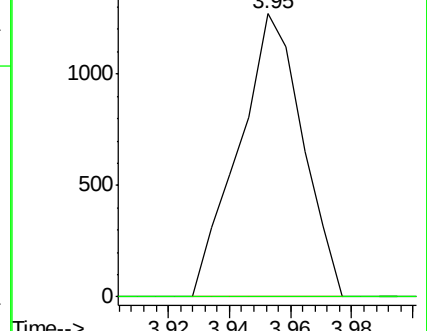
39 100

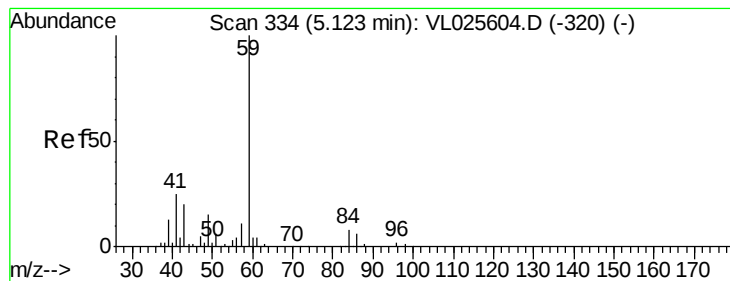
54 0.0 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



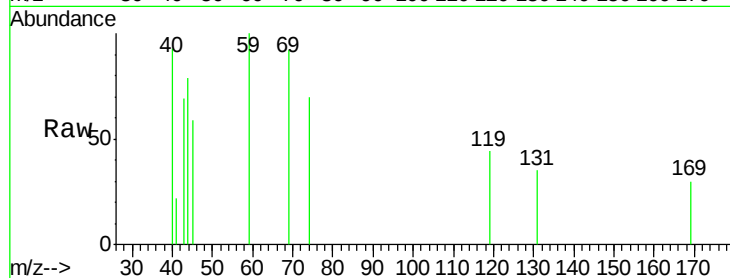


#17

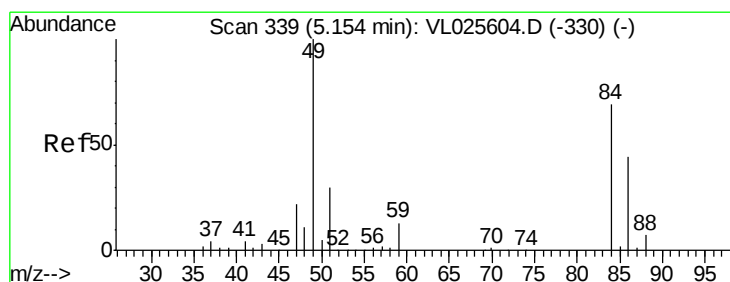
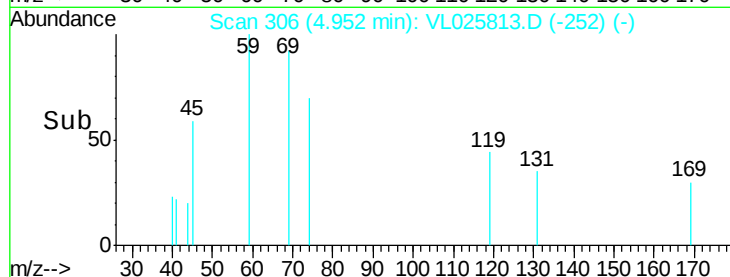
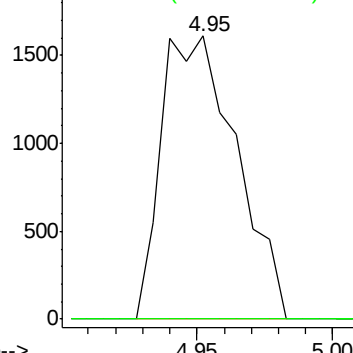
tert-Butyl alcohol
Concen: 0.04 ppbv
RT: 4.95 min Scan# 306
Delta R.T. -0.17 min
Lab File: VL025813.D
Acq: 31 Jul 2015 15:01

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tgt Ion: 59 Resp: 3080
Ion Ratio Lower Upper
59 100
57 0.0 9.4 14.2#



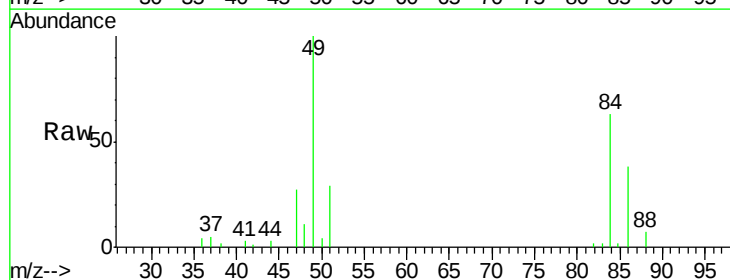
Abundance Ion 59.10 (58.80 to 59.80): VL0
Ion 57.10 (56.80 to 57.80): VL0



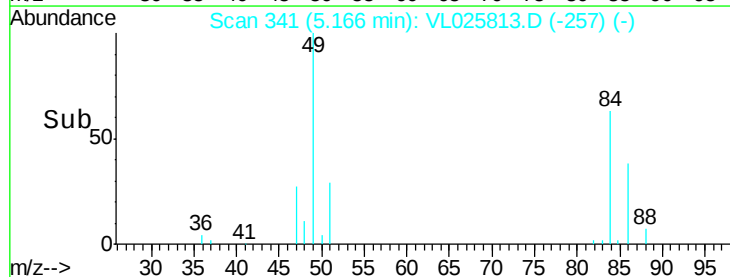
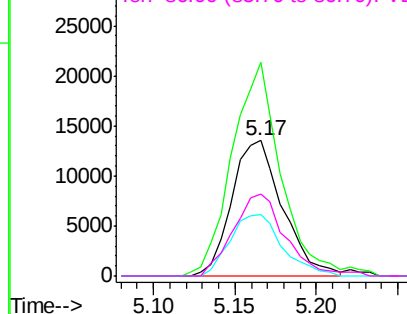
#20

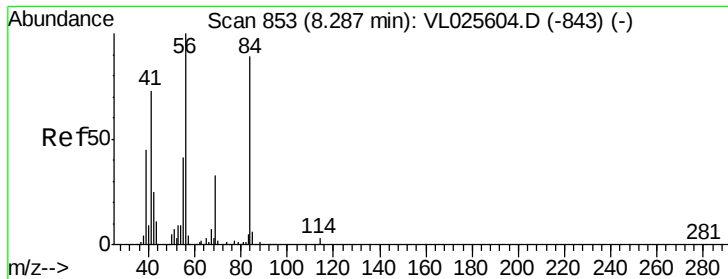
Methylene Chloride
Concen: 0.86 ppbv
RT: 5.17 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL025813.D
Acq: 31 Jul 2015 15:01

Tgt Ion: 84 Resp: 29419
Ion Ratio Lower Upper
84 100
49 155.6 115.2 172.8
51 45.7 35.0 52.6
86 60.6 50.6 76.0



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

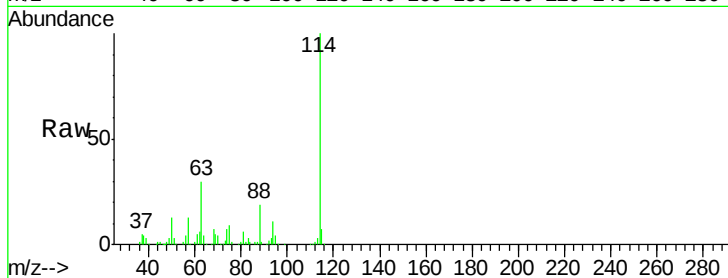




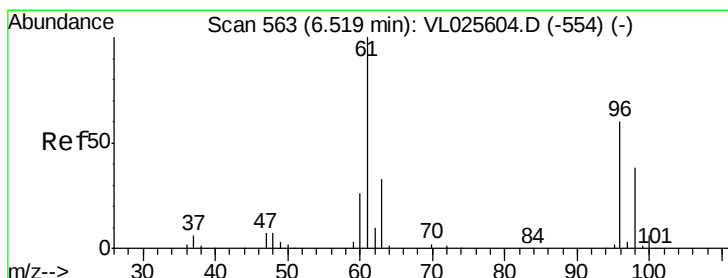
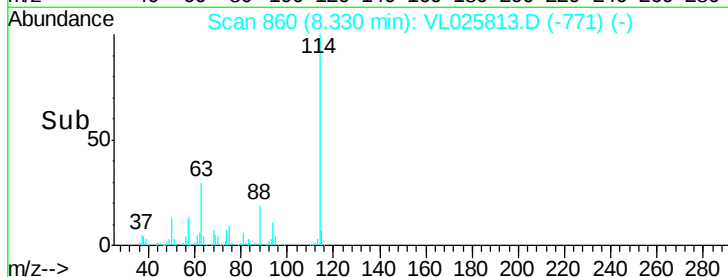
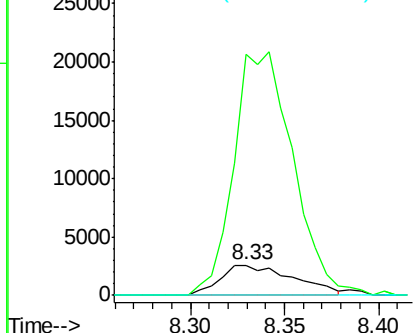
#30
Cyclohexane
Concen: 0.12 ppbv
RT: 8.33 min Scan# 860
Delta R.T. 0.04 min
Lab File: VL025813.D
Acq: 31 Jul 2015 15:01

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tgt Ion: 84 Resp: 6931
Ion Ratio Lower Upper
84 100
56 657.6 97.5 146.3#
41 0.0 65.4 98.2#

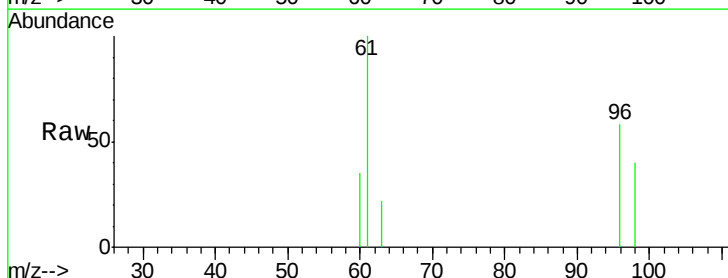


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

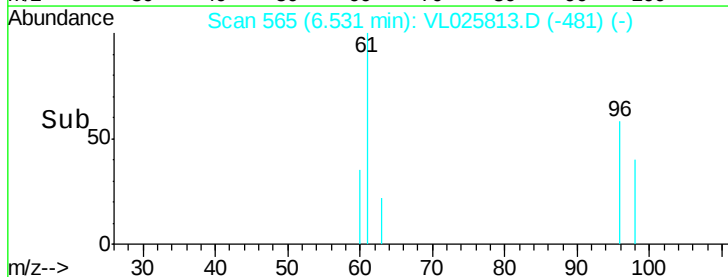
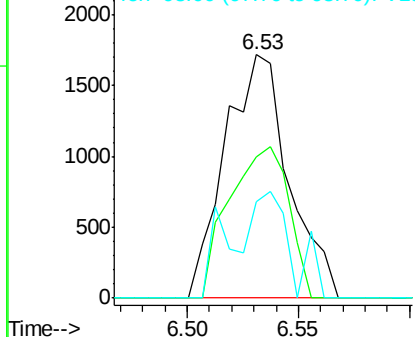


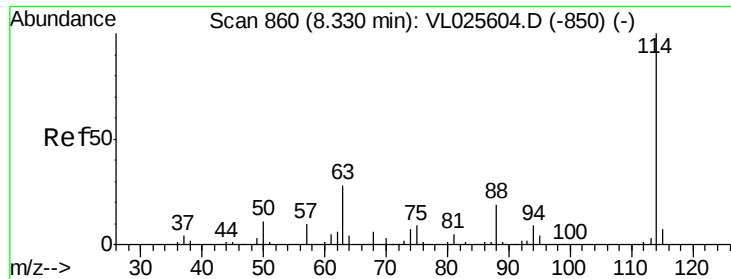
#31
cis-1,2-Dichloroethene
Concen: 0.06 ppbv
RT: 6.53 min Scan# 565
Delta R.T. 0.01 min
Lab File: VL025813.D
Acq: 31 Jul 2015 15:01

Tgt Ion: 61 Resp: 3431
Ion Ratio Lower Upper
61 100
96 57.8 48.1 72.1
98 39.6 30.7 46.1



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

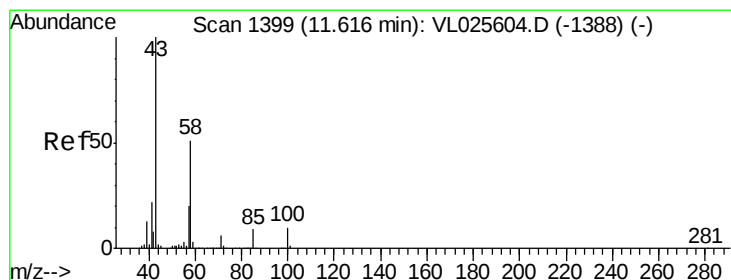
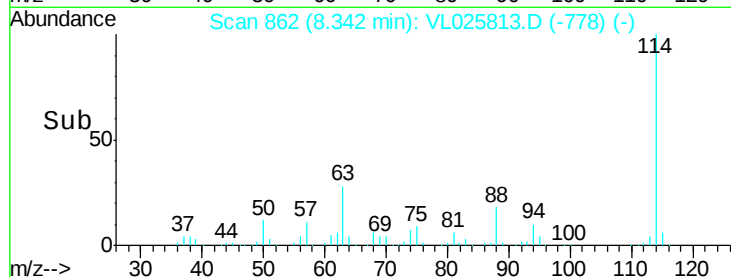
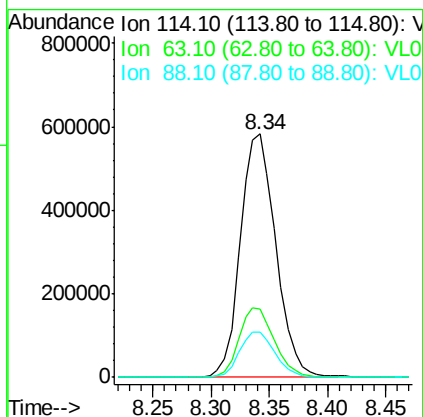
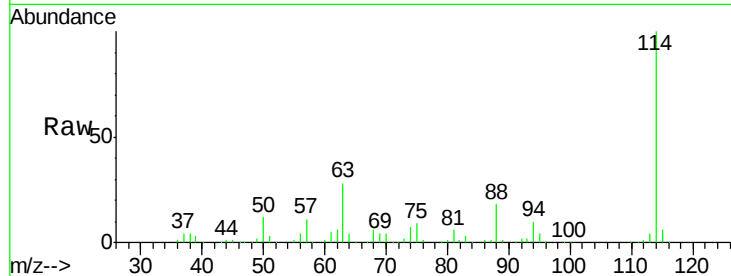




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 862
 Delta R.T. 0.01 min
 Lab File: VL025813.D
 Acq: 31 Jul 2015 15:01

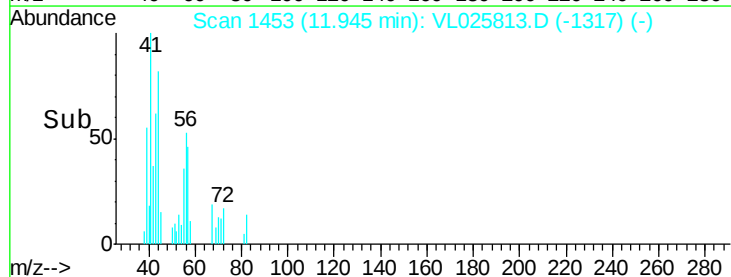
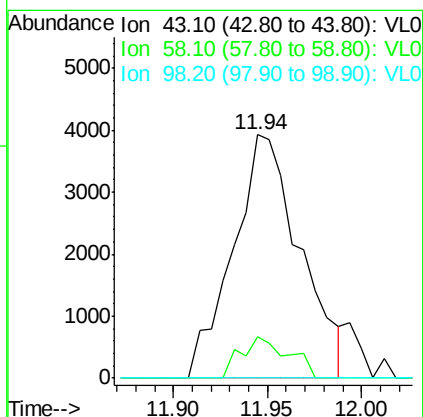
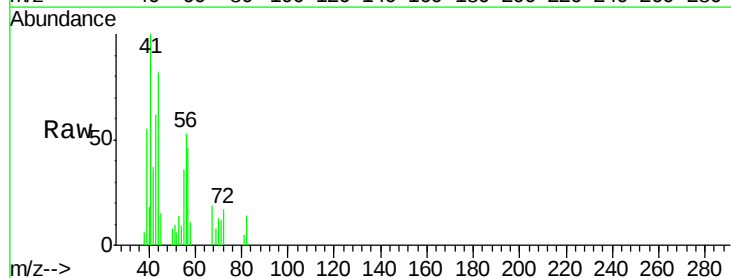
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

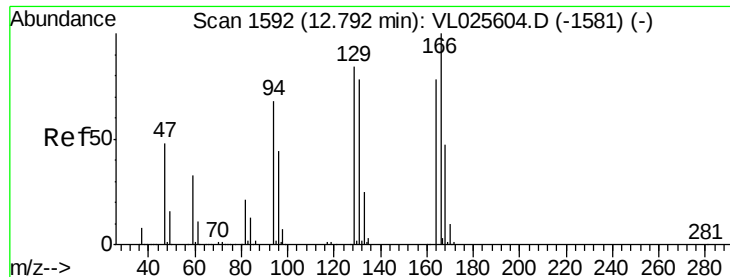
Tgt Ion:114 Resp: 1235906
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.4 33.6
 88 18.8 15.0 22.4



#51
 2-Hexanone
 Concen: 0.11 ppbv
 RT: 11.94 min Scan# 1453
 Delta R.T. 0.33 min
 Lab File: VL025813.D
 Acq: 31 Jul 2015 15:01

Tgt Ion: 43 Resp: 9680
 Ion Ratio Lower Upper
 43 100
 58 12.0 39.0 58.6#
 98 0.0 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.13 ppbv

RT: 12.81 min Scan# 1595

Delta R.T. 0.02 min

Lab File: VL025813.D

Acq: 31 Jul 2015 15:01

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tgt Ion:164 Resp: 7603

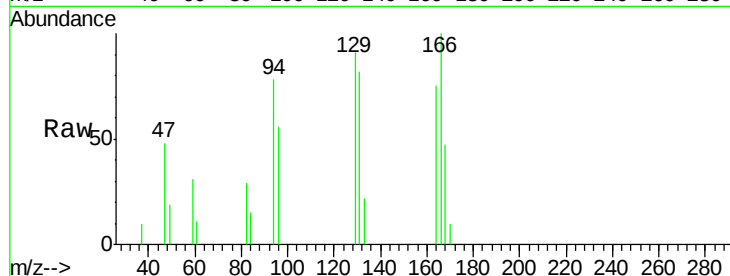
Ion Ratio Lower Upper

164 100

166 134.1 102.3 153.5

129 122.1 86.2 129.4

131 109.7 80.3 120.5

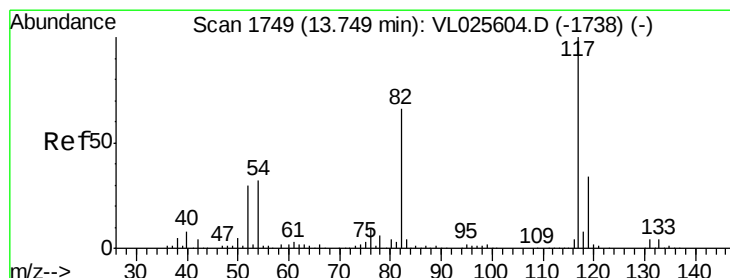
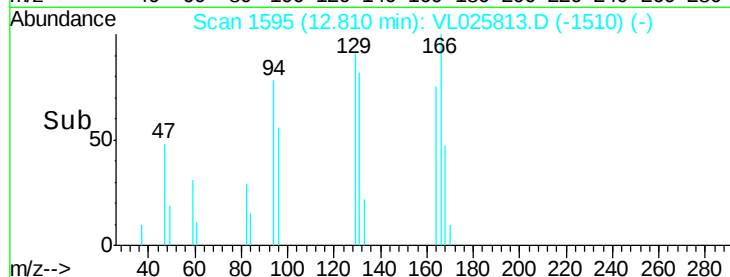
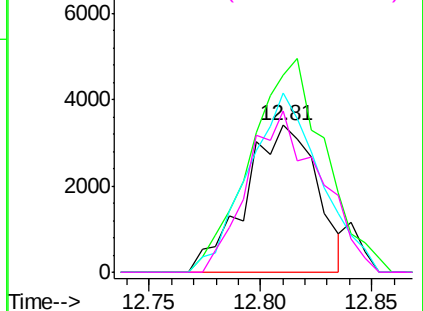


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.00 ppbv

RT: 13.76 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VL025813.D

Acq: 31 Jul 2015 15:01

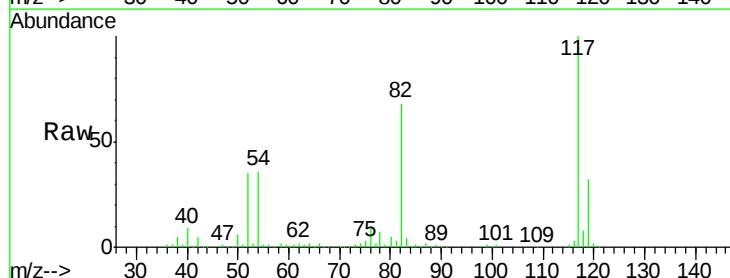
Tgt Ion:117 Resp: 1574654

Ion Ratio Lower Upper

117 100

82 66.8 50.5 75.7

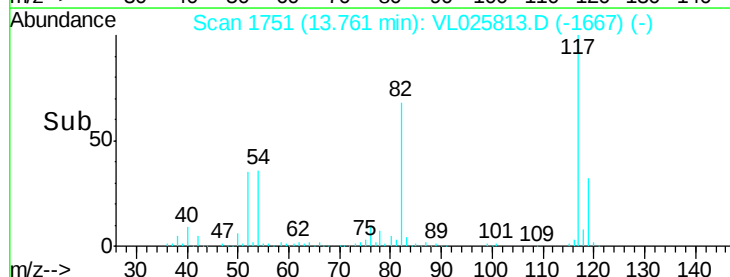
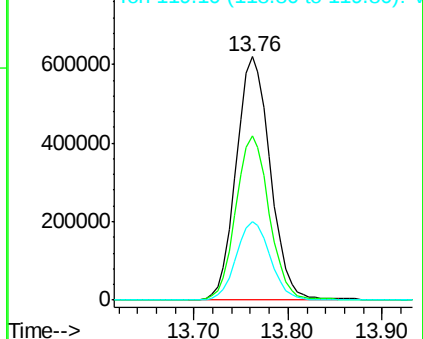
119 32.5 45.1 67.7#

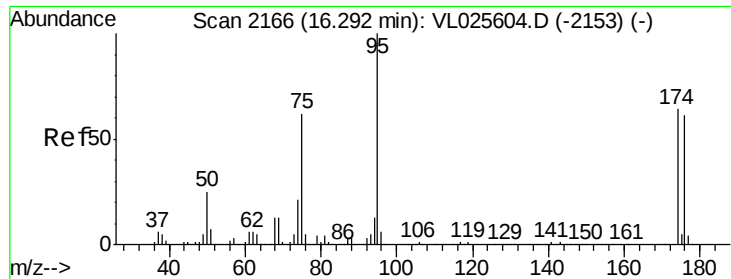


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.78 ppbv

RT: 16.30 min Scan# 2168

Delta R.T. 0.01 min

Lab File: VL025813.D

Acq: 31 Jul 2015 15:01

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

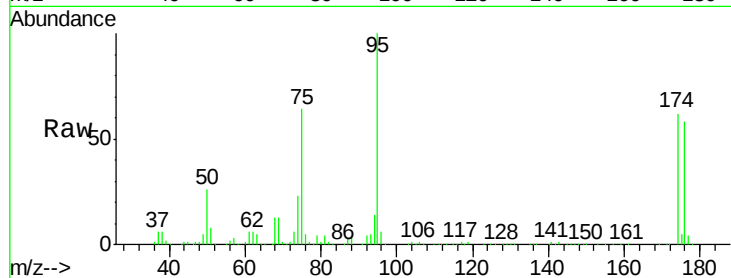
Tgt Ion: 95 Resp: 1431305

Ion Ratio Lower Upper

95 100

174 62.6 52.0 78.0

175 4.6 3.9 5.9



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

