

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
 Data File : VL025812.D
 Acq On : 31 Jul 2015 14:21
 Operator : SY/MD
 Sample : G3144-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Quant Time: Aug 03 04:39:21 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	504523	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1300919	10.00	ppbv	0.01
55) Chlorobenzene-d5	13.76	117	1682535	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1434156	10.10	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

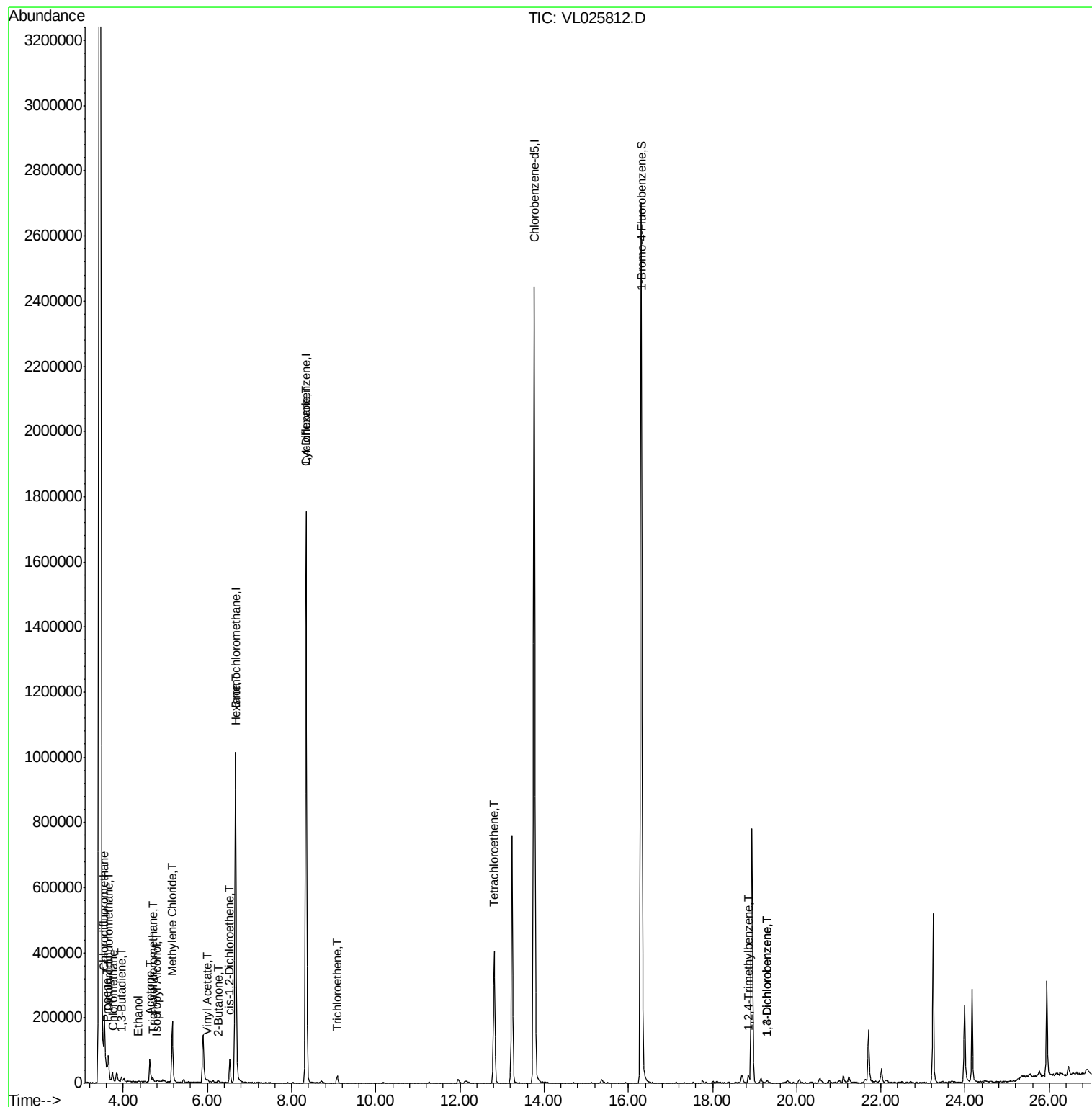
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	66736	0.51	ppbv	97
3) Chlorodifluoromethane	3.56	51	147049	2.07	ppbv #	66
4) Chloromethane	3.76	50	4670	0.14	ppbv	89
9) Propene	3.61	41	9502	0.40	ppbv	84
11) Trichlorofluoromethane	4.70	101	9316	0.05	ppbv	89
13) Ethanol	4.36	45	1672	0.46	ppbv #	53
15) Acetone	4.63	43	101135	1.13	ppbv	96
16) 1,3-Butadiene	3.96	39	5814	0.16	ppbv #	12
19) Isopropyl Alcohol	4.79	45	1873	0.05	ppbv #	96
20) Methylene Chloride	5.17	84	82684	2.28	ppbv	94
23) Vinyl Acetate	6.01	43	7332	0.05	ppbv #	79
26) Hexane	6.68	57	4615	0.07	ppbv #	39
30) Cyclohexane	8.34	84	4883	0.08	ppbv #	1
31) cis-1,2-Dichloroethene	6.53	61	46801	0.74	ppbv	91
34) 2-Butanone	6.24	43	8758	0.12	ppbv	93
38) Trichloroethene	9.08	130	7781	0.13	ppbv #	85
52) Tetrachloroethene	12.81	164	103621	1.66	ppbv	97
74) 1,2,4-Trimethylbenzene	18.85	105	12951	0.04	ppbv #	75
75) 1,3-Dichlorobenzene	19.29	146	6585	0.03	ppbv	91
76) 1,4-Dichlorobenzene	19.29	146	6585	0.03	ppbv	92

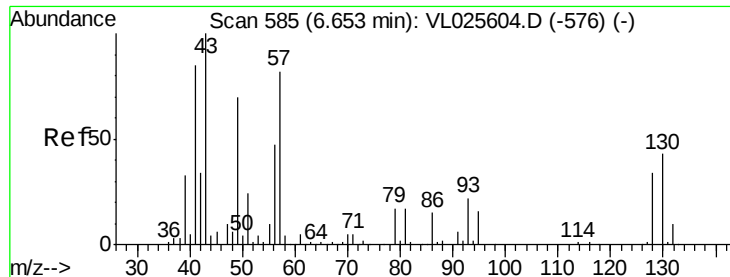
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
Data File : VL025812.D
Acq On : 31 Jul 2015 14:21
Operator : SY/MD
Sample : G3144-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Quant Time: Aug 03 04:39:21 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
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: VL025812.D

Acq: 31 Jul 2015 14:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

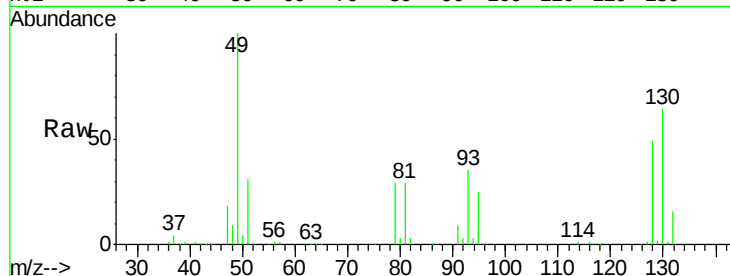
Tgt Ion: 49 Resp: 504523

Ion Ratio Lower Upper

49 100

128 51.8 25.4 76.0

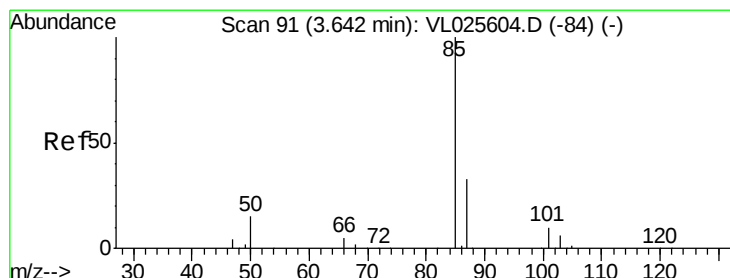
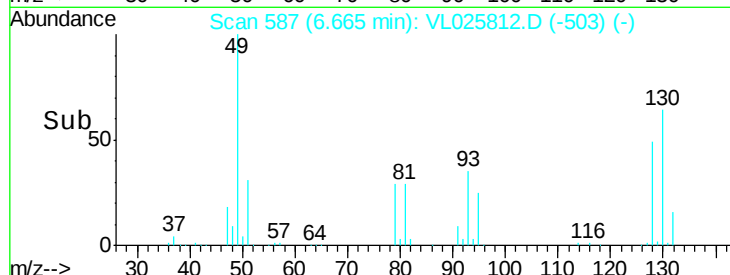
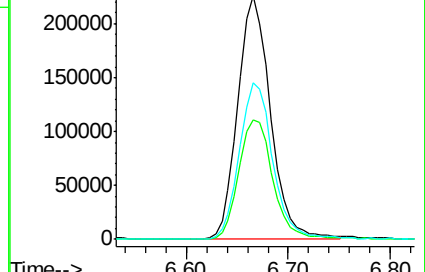
130 66.8 31.9 95.9



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: 0.51 ppbv

RT: 3.65 min Scan# 93

Delta R.T. 0.01 min

Lab File: VL025812.D

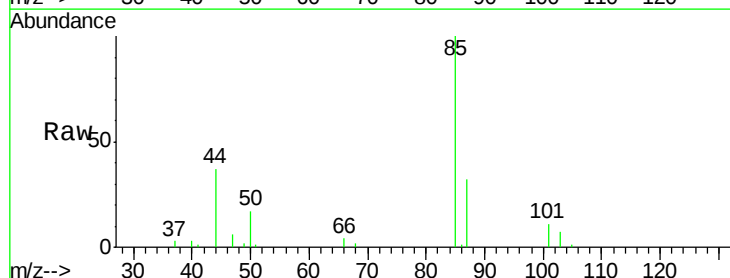
Acq: 31 Jul 2015 14:21

Tgt Ion: 85 Resp: 66736

Ion Ratio Lower Upper

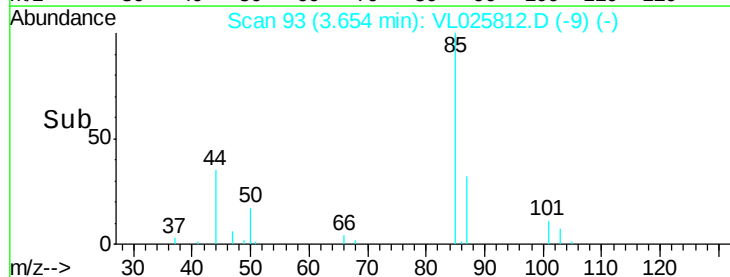
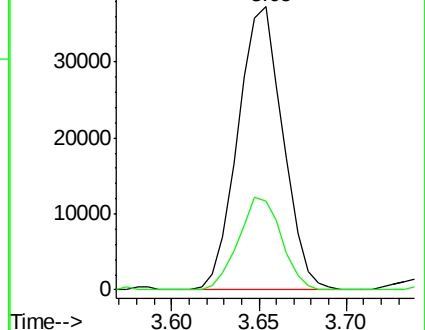
85 100

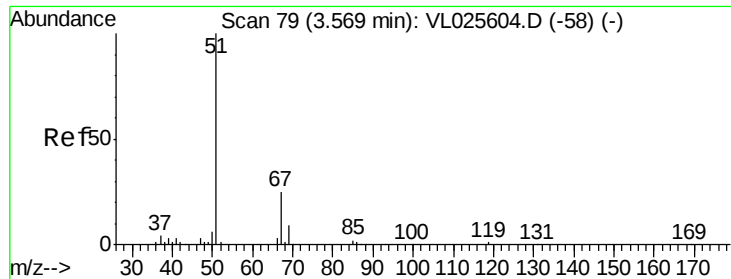
87 31.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

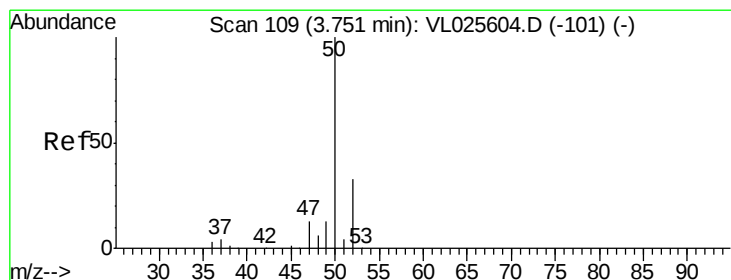
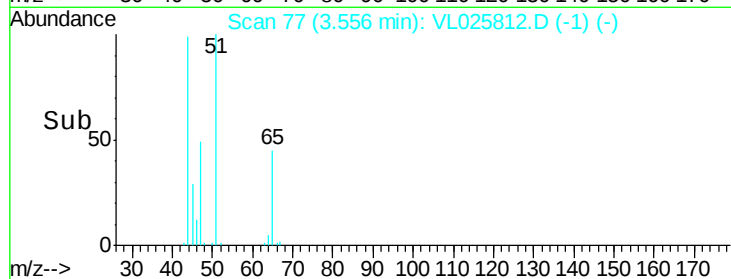
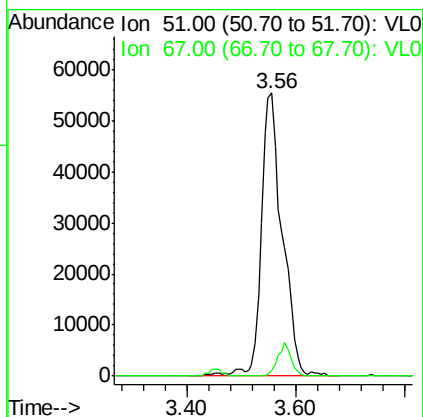
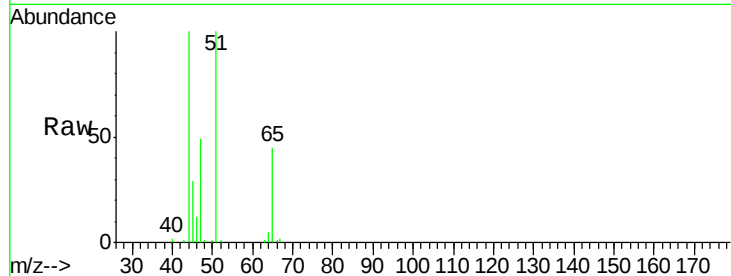




#3
 Chlorodifluoromethane
 Concen: 2.07 ppbv
 RT: 3.56 min Scan# 77
 Delta R.T. -0.01 min
 Lab File: VL025812.D
 Acq: 31 Jul 2015 14:21

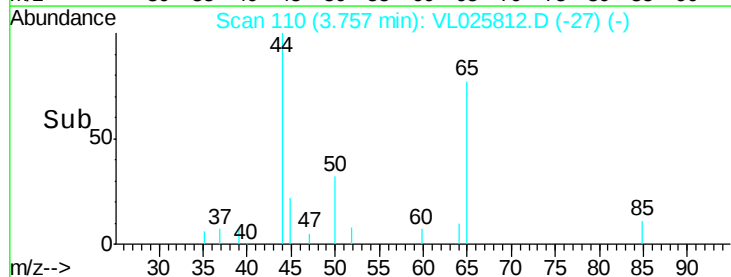
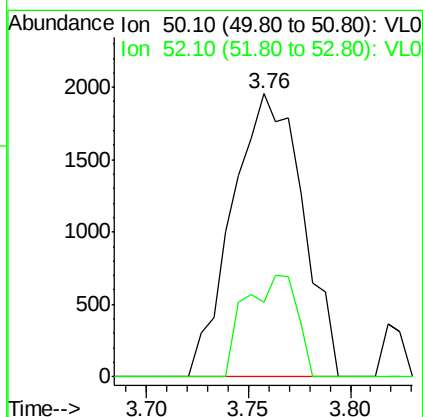
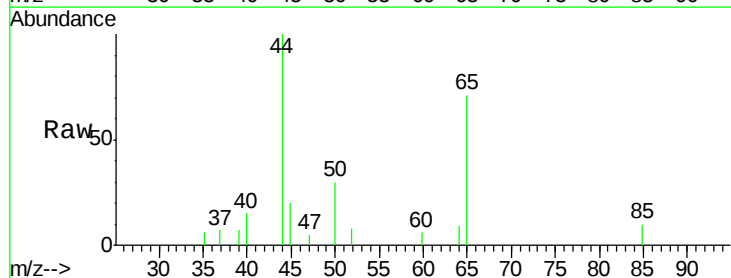
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

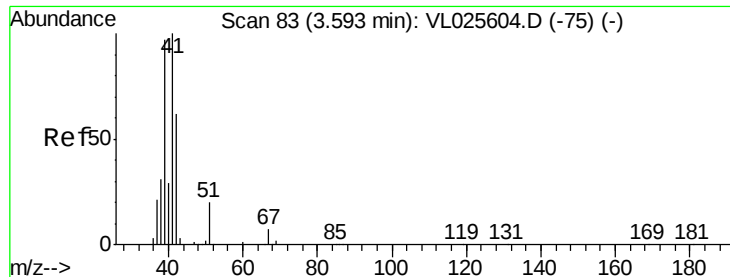
Tgt Ion: 51 Resp: 147049
 Ion Ratio Lower Upper
 51 100
 67 7.5 19.5 29.3#



#4
 Chloromethane
 Concen: 0.14 ppbv
 RT: 3.76 min Scan# 110
 Delta R.T. 0.01 min
 Lab File: VL025812.D
 Acq: 31 Jul 2015 14:21

Tgt Ion: 50 Resp: 4670
 Ion Ratio Lower Upper
 50 100
 52 26.2 26.2 39.2





#9

Propene

Concen: 0.40 ppbv

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL025812.D

Acq: 31 Jul 2015 14:21

Instrument :

MSVOA_L

ClientSampleId :

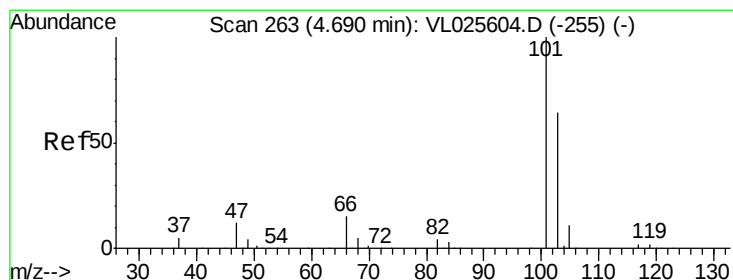
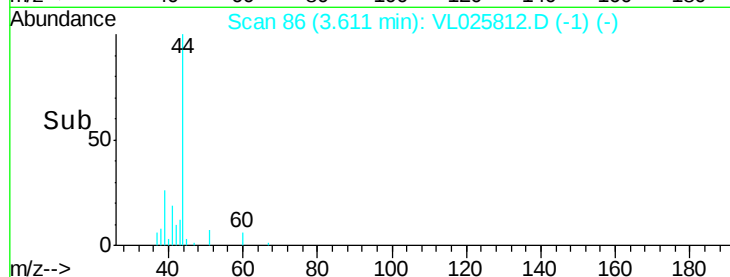
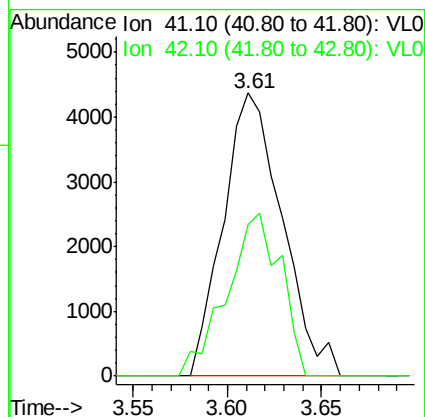
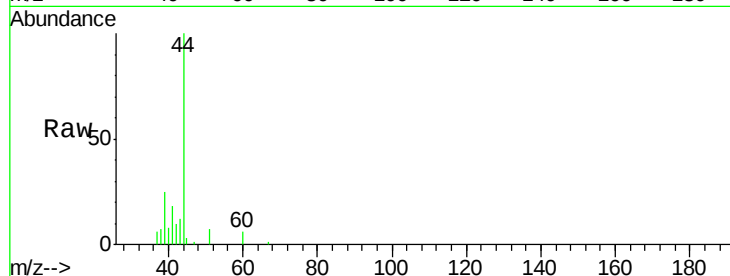
EFFLUENT

Tgt Ion: 41 Resp: 9502

Ion Ratio Lower Upper

41 100

42 52.5 52.4 78.6



#11

Trichlorofluoromethane

Concen: 0.05 ppbv

RT: 4.70 min Scan# 265

Delta R.T. 0.01 min

Lab File: VL025812.D

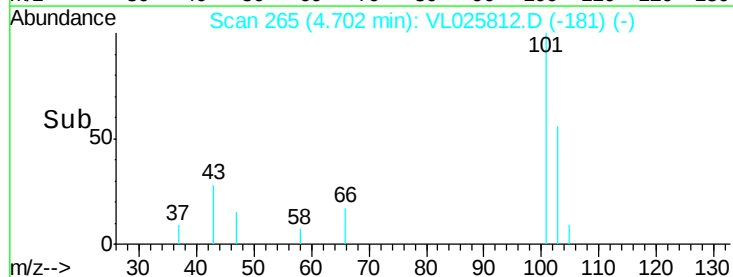
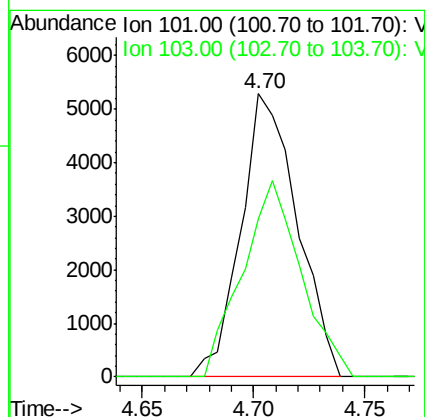
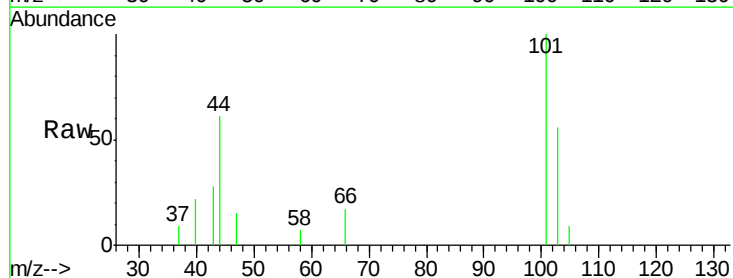
Acq: 31 Jul 2015 14:21

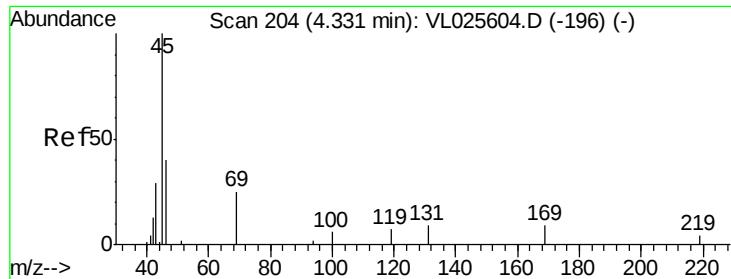
Tgt Ion: 101 Resp: 9316

Ion Ratio Lower Upper

101 100

103 55.7 51.4 77.2





#13

Ethanol

Concen: 0.46 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.03 min

Lab File: VL025812.D

Acq: 31 Jul 2015 14:21

Instrument :

MSVOA_L

ClientSampleId :

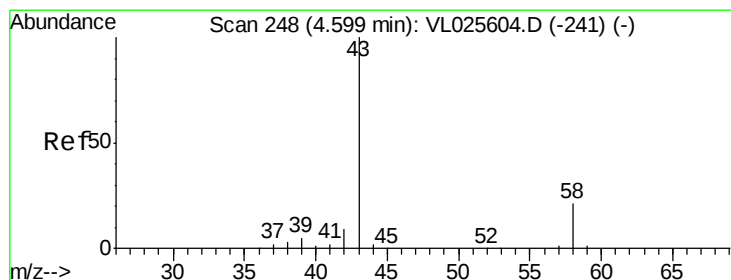
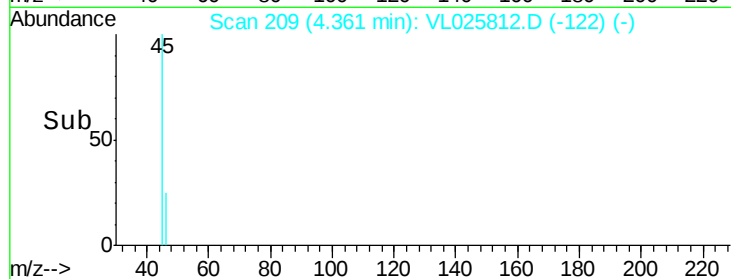
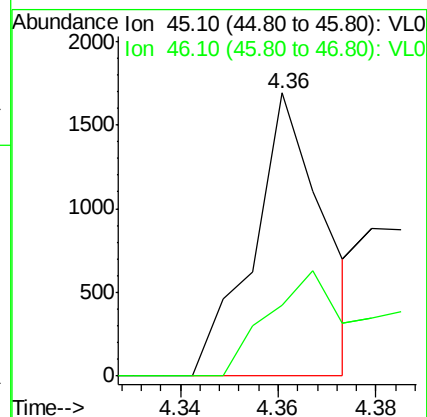
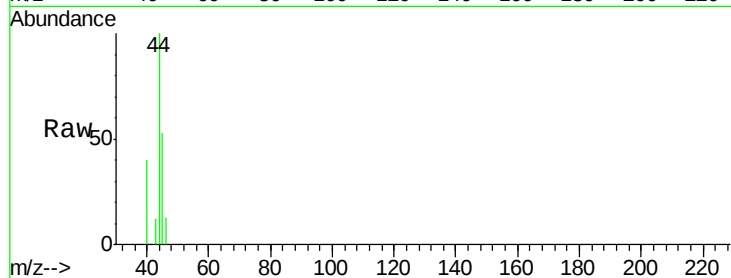
EFFLUENT

Tgt Ion: 45 Resp: 1672

Ion Ratio Lower Upper

45 100

46 69.0 16.0 64.0#



#15

Acetone

Concen: 1.13 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.03 min

Lab File: VL025812.D

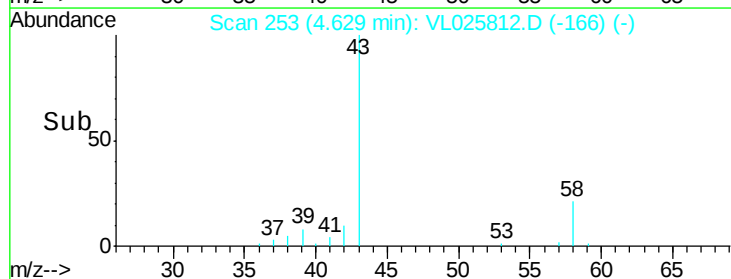
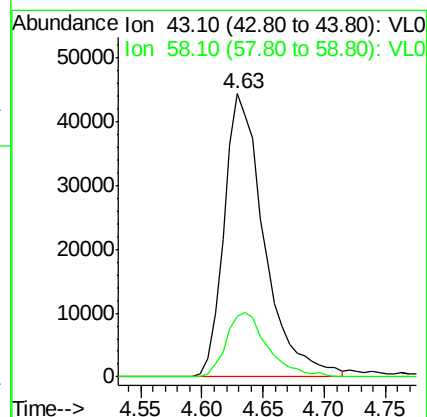
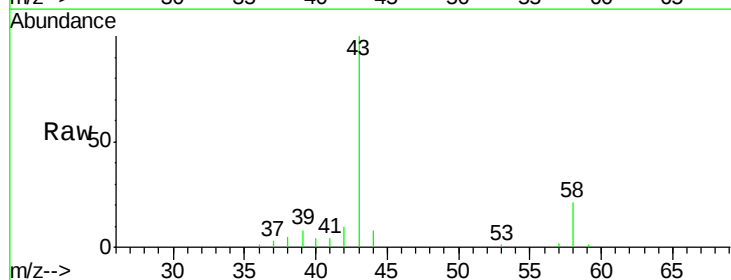
Acq: 31 Jul 2015 14:21

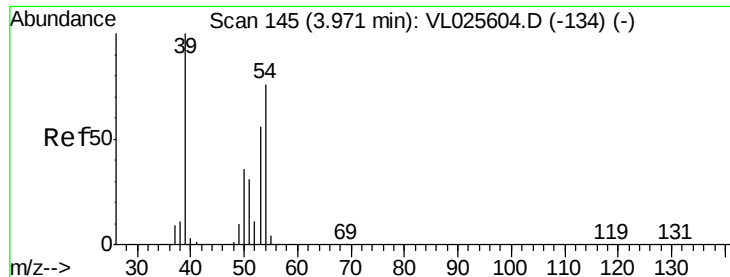
Tgt Ion: 43 Resp: 101135

Ion Ratio Lower Upper

43 100

58 23.3 17.2 25.8





#16

1,3-Butadiene

Concen: 0.16 ppbv

RT: 3.96 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL025812.D

Acq: 31 Jul 2015 14:21

Instrument :

MSVOA_L

ClientSampleId :

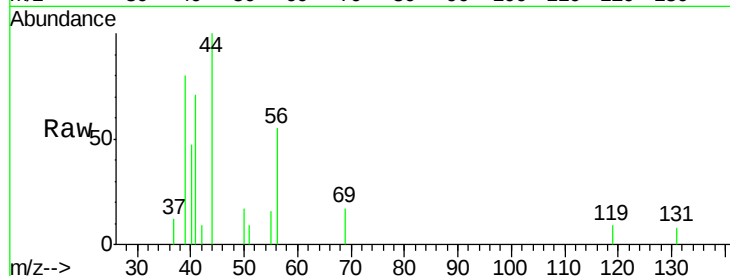
EFFLUENT

Tgt Ion: 39 Resp: 5814

Ion Ratio Lower Upper

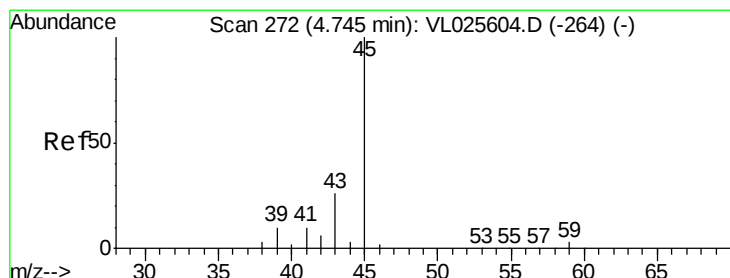
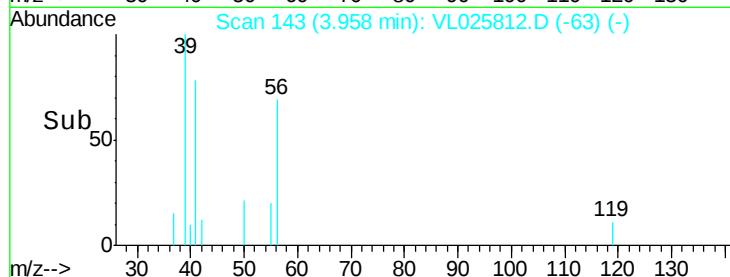
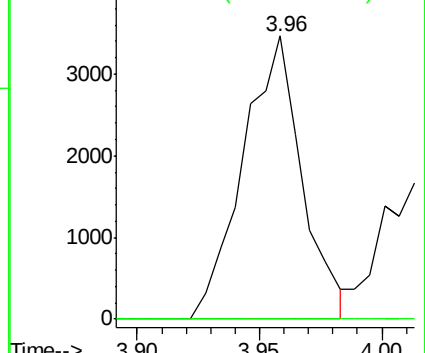
39 100

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



#19

Isopropyl Alcohol

Concen: 0.05 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.05 min

Lab File: VL025812.D

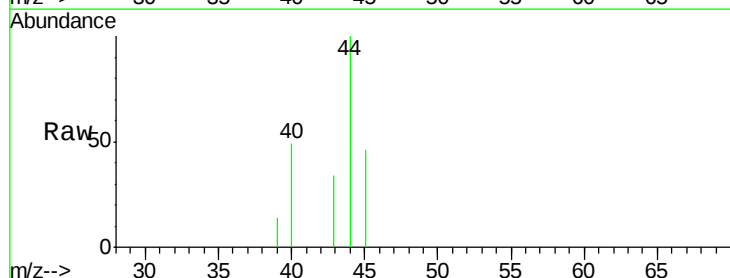
Acq: 31 Jul 2015 14:21

Tgt Ion: 45 Resp: 1873

Ion Ratio Lower Upper

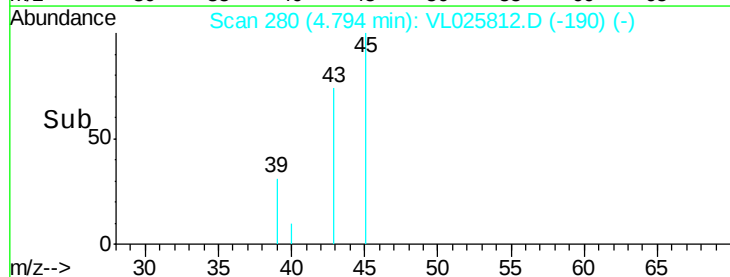
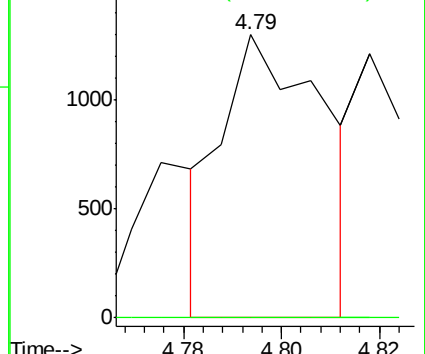
45 100

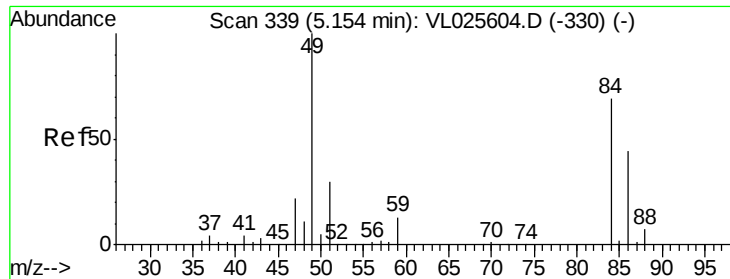
58 0.0 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

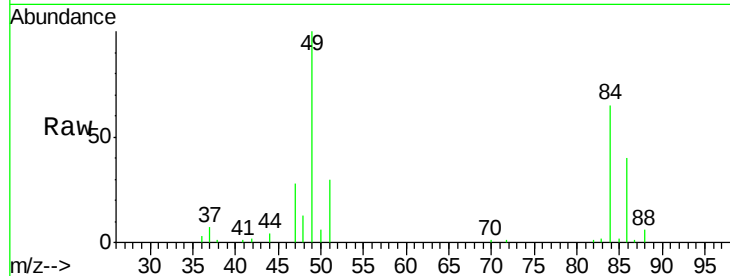




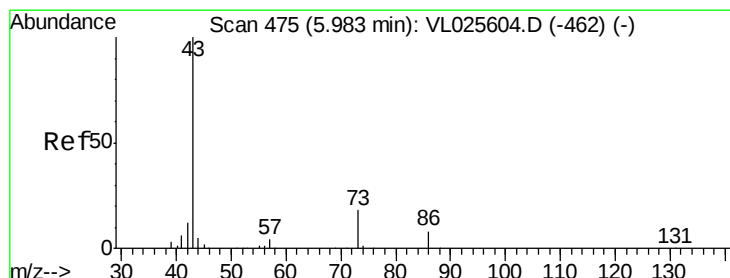
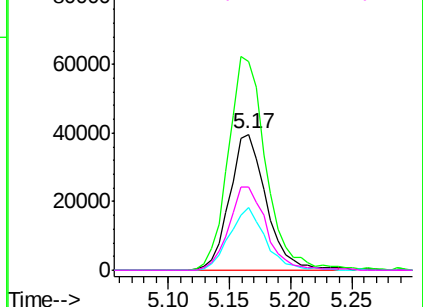
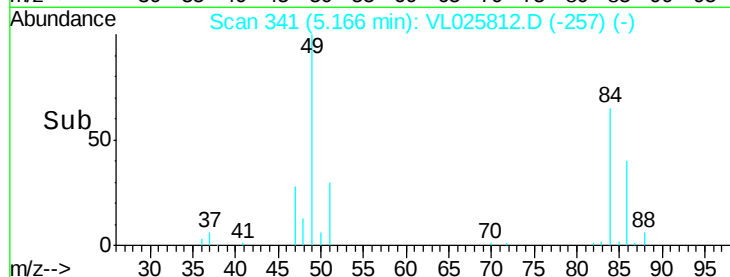
#20
Methylene Chloride
Concen: 2.28 ppbv
RT: 5.17 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL025812.D
Acq: 31 Jul 2015 14:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 84 Resp: 82684
Ion Ratio Lower Upper
84 100
49 153.5 115.2 172.8
51 45.7 35.0 52.6
86 61.0 50.6 76.0

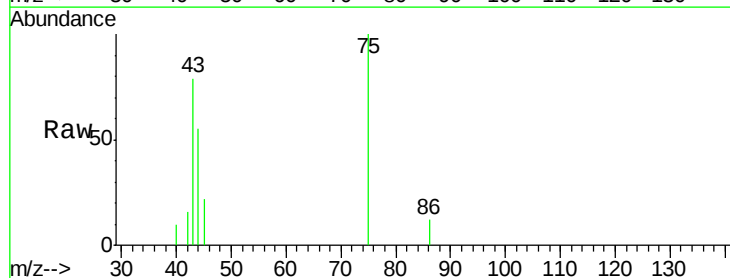


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

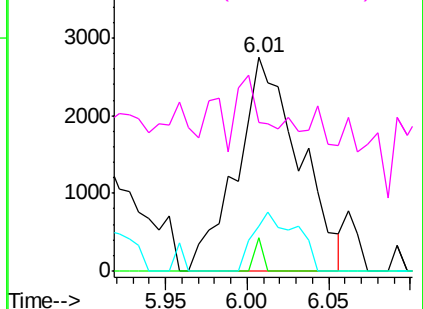
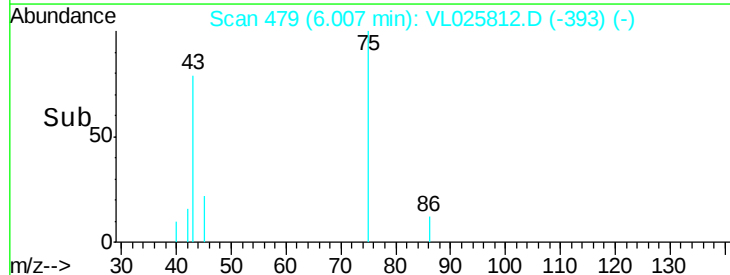


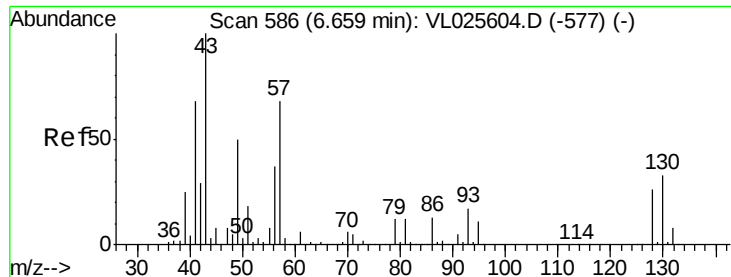
#23
Vinyl Acetate
Concen: 0.05 ppbv
RT: 6.01 min Scan# 479
Delta R.T. 0.02 min
Lab File: VL025812.D
Acq: 31 Jul 2015 14:21

Tgt Ion: 43 Resp: 7332
Ion Ratio Lower Upper
43 100
86 15.6 6.7 10.1#
42 21.0 9.8 14.6#
44 11.2 4.1 6.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0

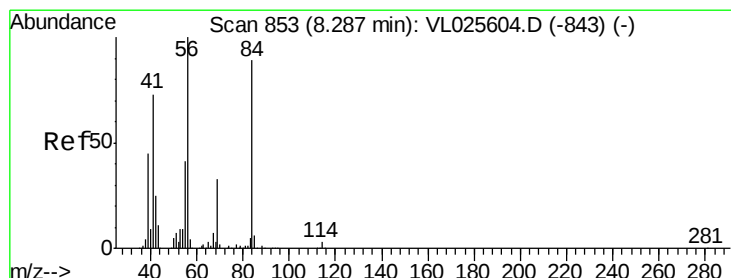
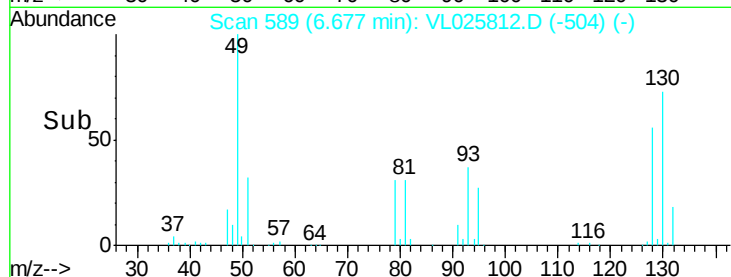
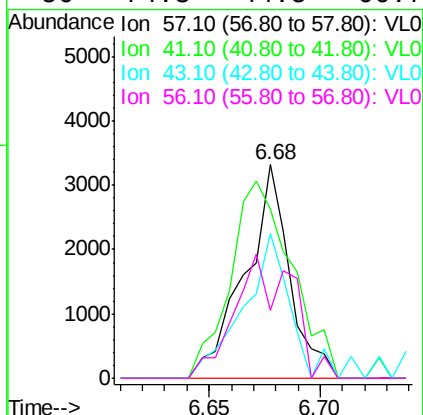
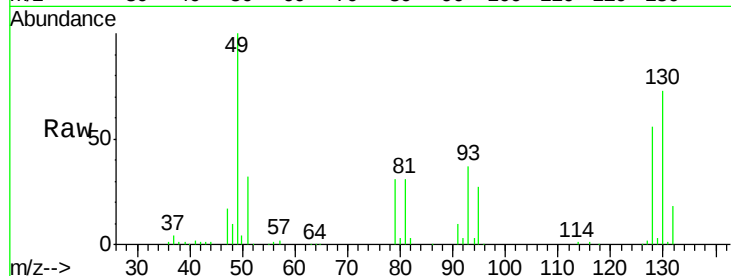




#26
Hexane
Concen: 0.07 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.02 min
Lab File: VL025812.D
Acq: 31 Jul 2015 14:21

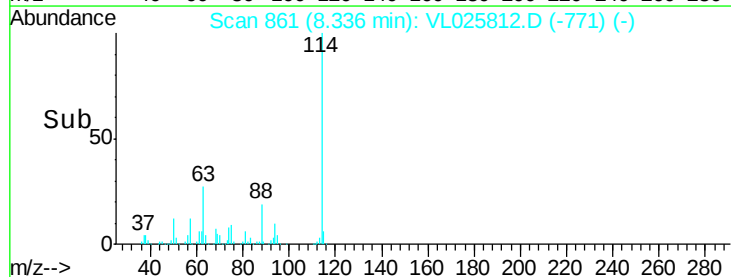
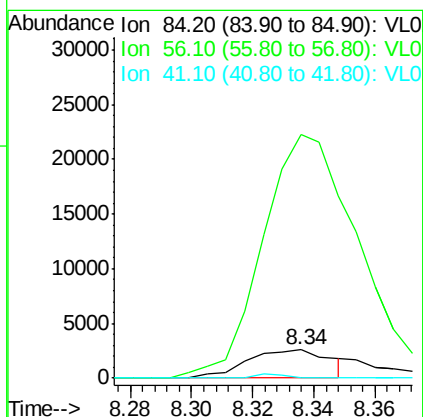
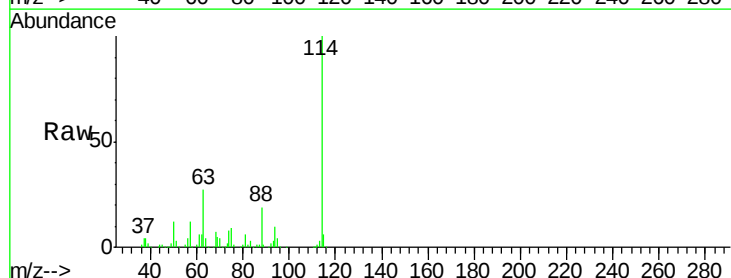
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

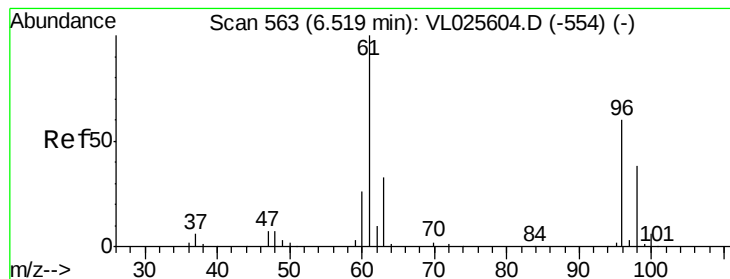
Tgt Ion: 57 Resp: 4615
Ion Ratio Lower Upper
57 100
41 129.5 81.4 122.2#
43 79.1 171.4 257.2#
56 74.3 44.5 66.7#



#30
Cyclohexane
Concen: 0.08 ppbv
RT: 8.34 min Scan# 861
Delta R.T. 0.05 min
Lab File: VL025812.D
Acq: 31 Jul 2015 14:21

Tgt Ion: 84 Resp: 4883
Ion Ratio Lower Upper
84 100
56 1003.7 97.5 146.3#
41 5.2 65.4 98.2#





#31

cis-1,2-Dichloroethene

Concen: 0.74 ppbv

RT: 6.53 min Scan# 565

Delta R.T. 0.01 min

Lab File: VL025812.D

Acq: 31 Jul 2015 14:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

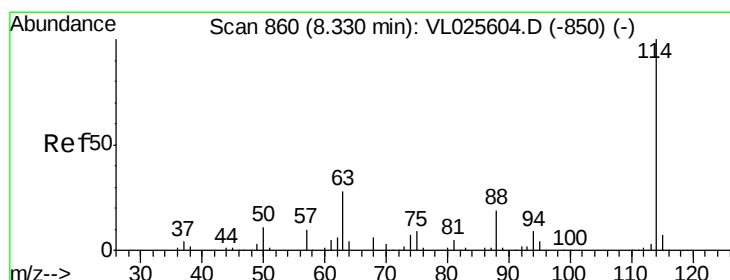
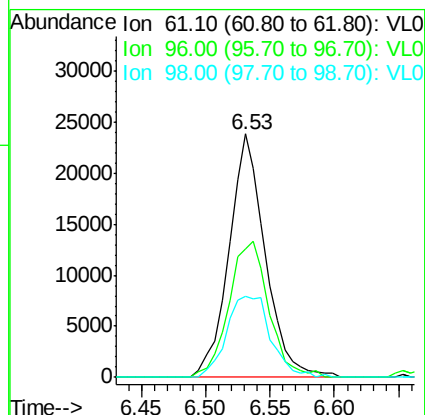
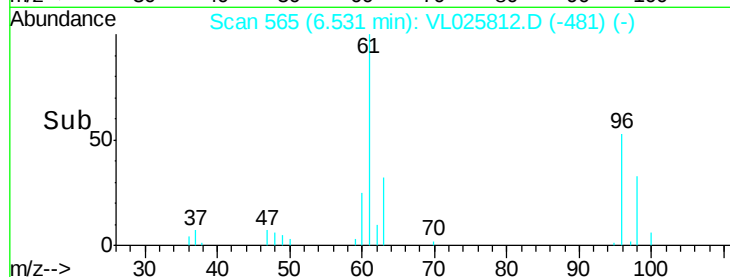
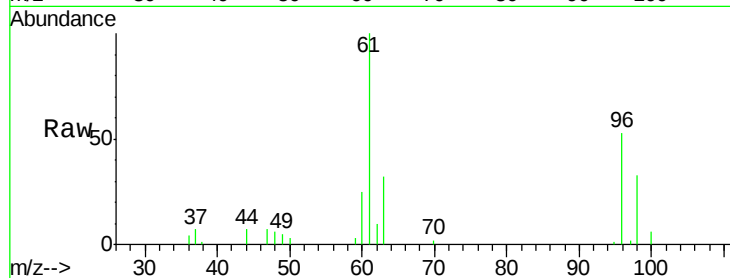
Tgt Ion: 61 Resp: 46801

Ion Ratio Lower Upper

61 100

96 52.8 48.1 72.1

98 33.3 30.7 46.1



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.34 min Scan# 862

Delta R.T. 0.01 min

Lab File: VL025812.D

Acq: 31 Jul 2015 14:21

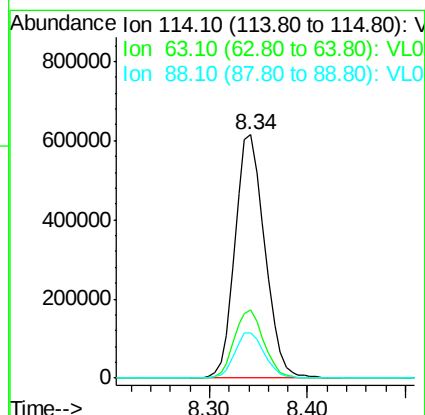
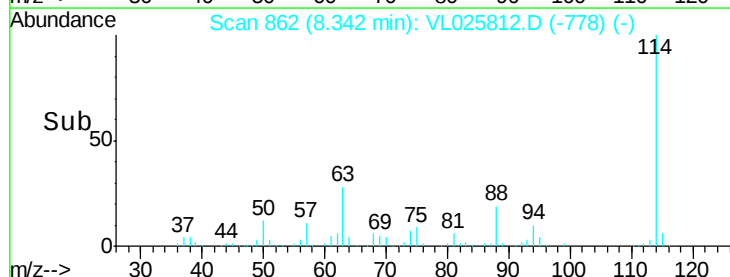
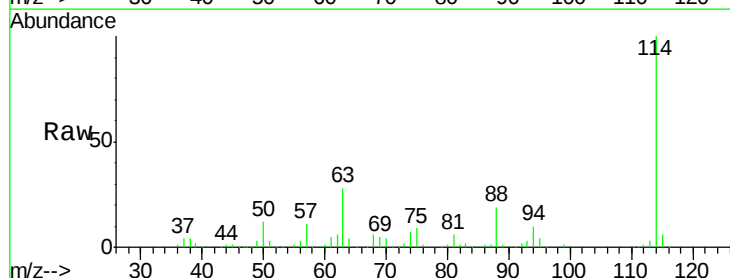
Tgt Ion: 114 Resp: 1300919

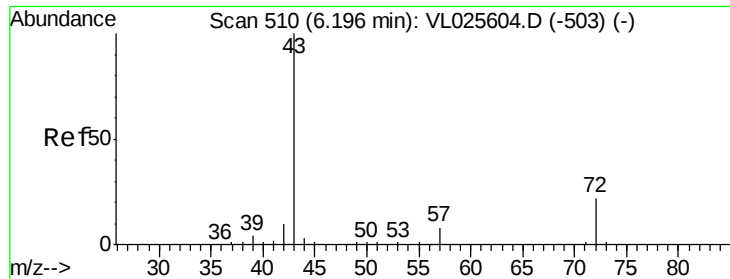
Ion Ratio Lower Upper

114 100

63 27.9 22.4 33.6

88 18.6 15.0 22.4

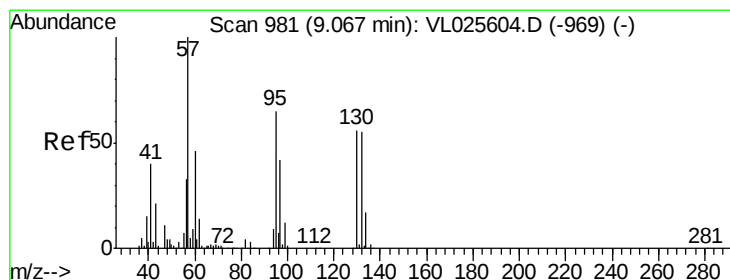
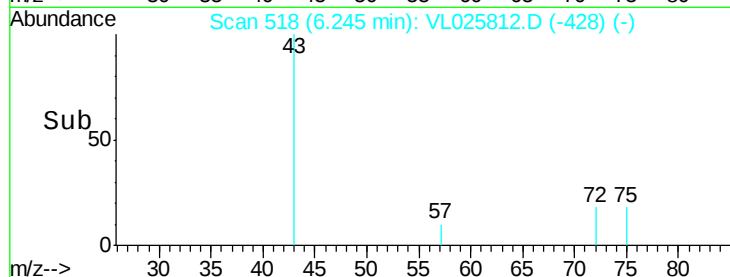
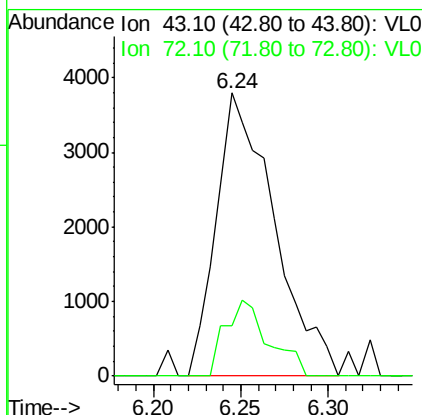
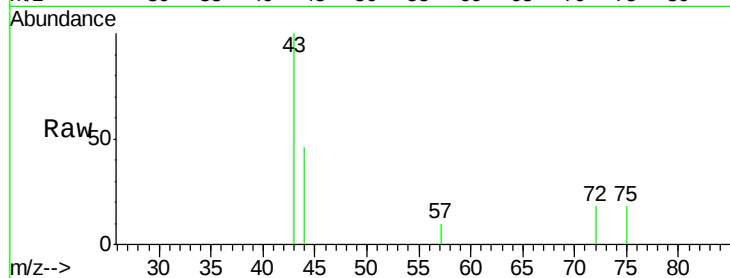




#34
2-Butanone
Concen: 0.12 ppbv
RT: 6.24 min Scan# 518
Delta R.T. 0.05 min
Lab File: VL025812.D
Acq: 31 Jul 2015 14:21

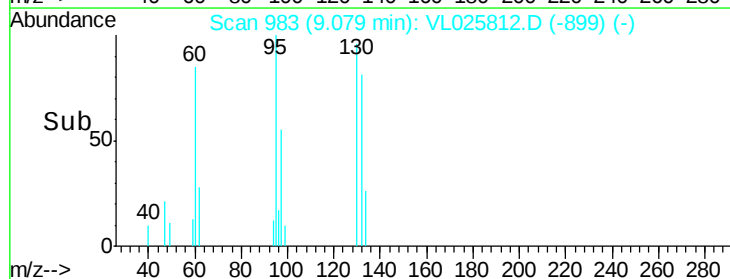
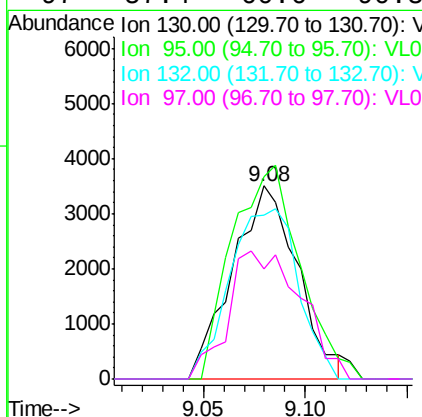
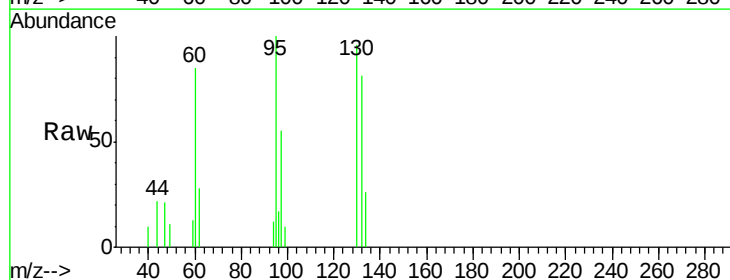
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

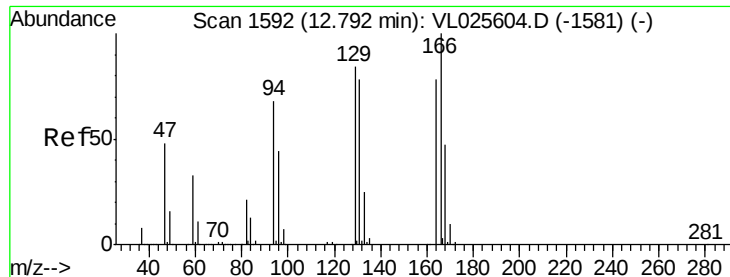
Tgt Ion: 43 Resp: 8758
Ion Ratio Lower Upper
43 100
72 20.0 18.6 28.0



#38
Trichloroethene
Concen: 0.13 ppbv
RT: 9.08 min Scan# 983
Delta R.T. 0.01 min
Lab File: VL025812.D
Acq: 31 Jul 2015 14:21

Tgt Ion: 130 Resp: 7781
Ion Ratio Lower Upper
130 100
95 104.6 94.2 141.4
132 84.6 78.6 118.0
97 57.4 60.6 90.8#





#52

Tetrachloroethene

Concen: 1.66 ppbv

RT: 12.81 min Scan# 1595

Delta R.T. 0.02 min

Lab File: VL025812.D

Acq: 31 Jul 2015 14:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion:164 Resp: 103621

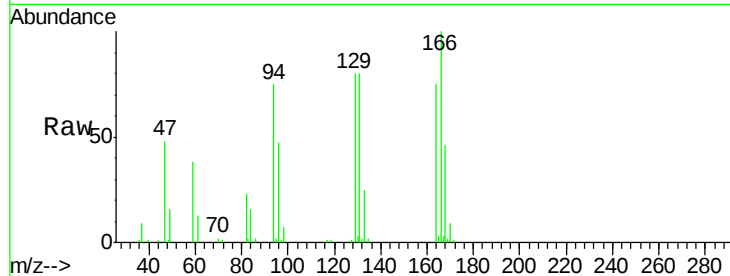
Ion Ratio Lower Upper

164 100

166 132.1 102.3 153.5

129 106.5 86.2 129.4

131 106.0 80.3 120.5

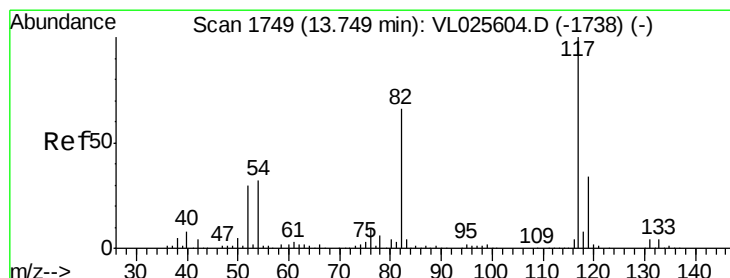
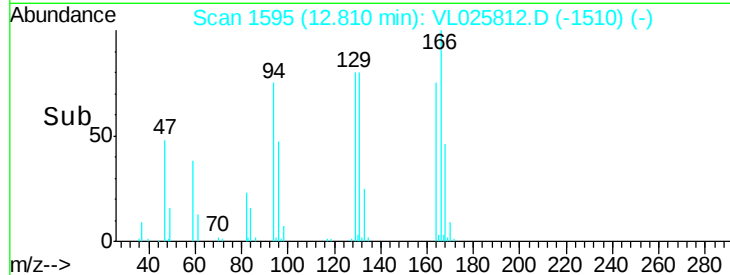
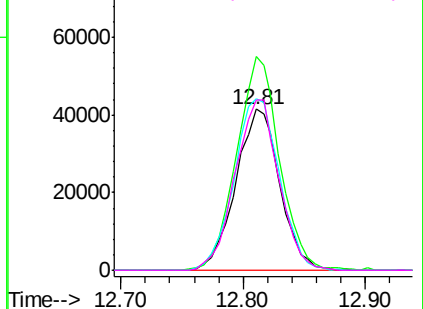


Abundance Ion 163.90 (163.60 to 164.60): V

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: VL025812.D

Acq: 31 Jul 2015 14:21

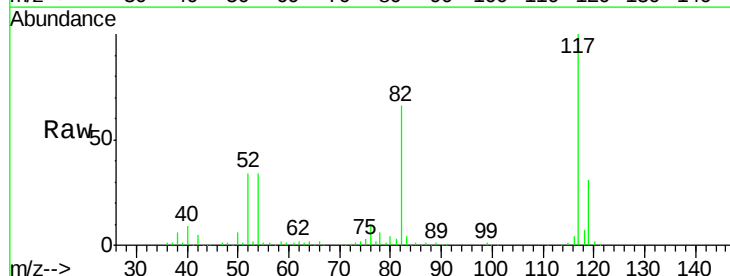
Tgt Ion:117 Resp: 1682535

Ion Ratio Lower Upper

117 100

82 66.9 50.5 75.7

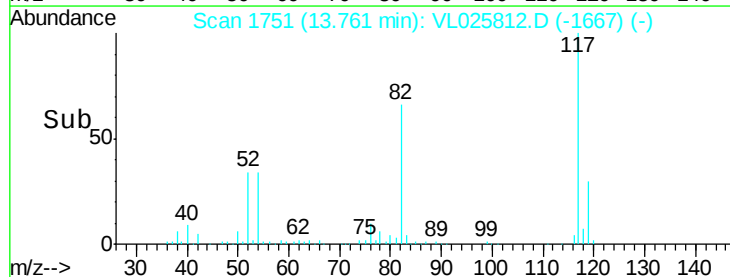
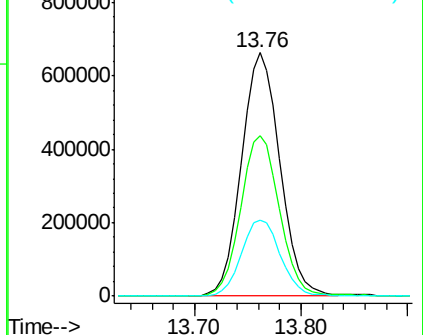
119 32.3 45.1 67.7#

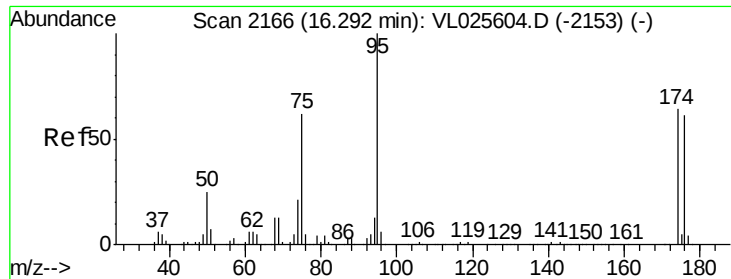


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

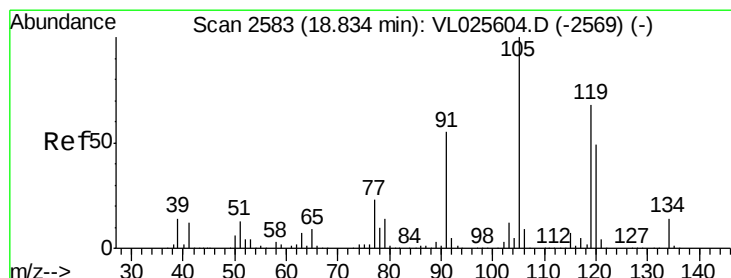
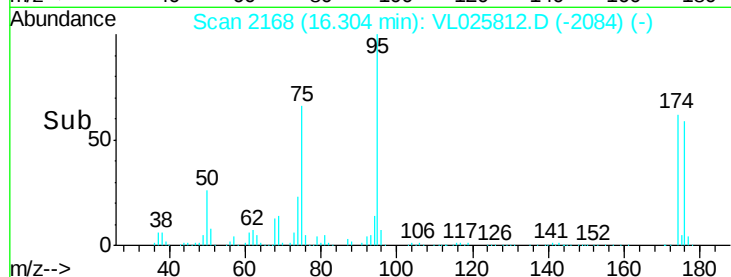
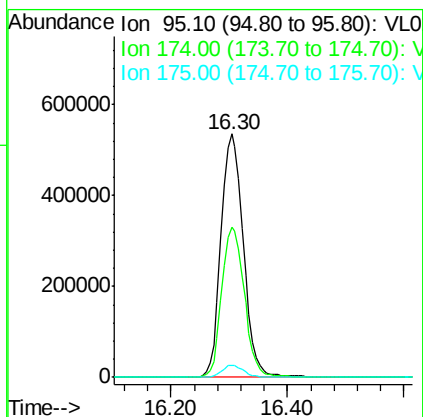
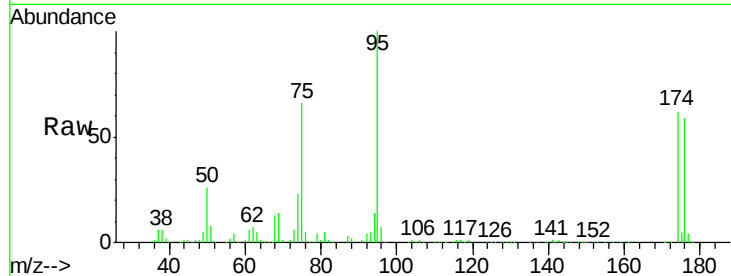




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.10 ppbv
 RT: 16.30 min Scan# 2168
 Delta R.T. 0.01 min
 Lab File: VL025812.D
 Acq: 31 Jul 2015 14:21

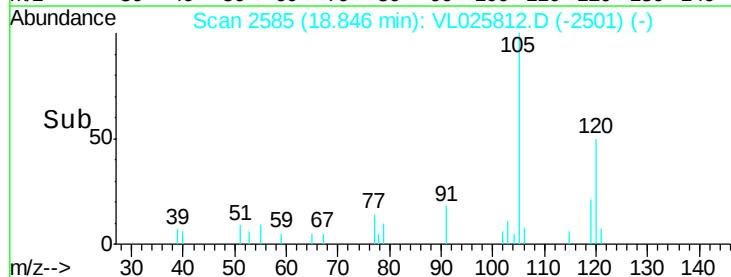
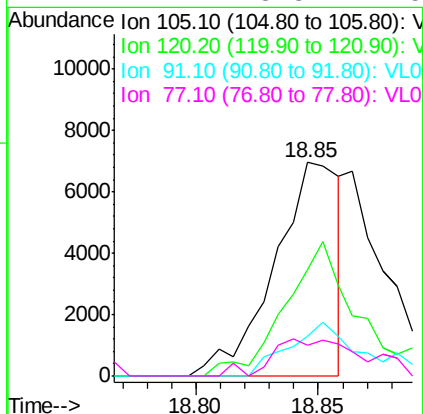
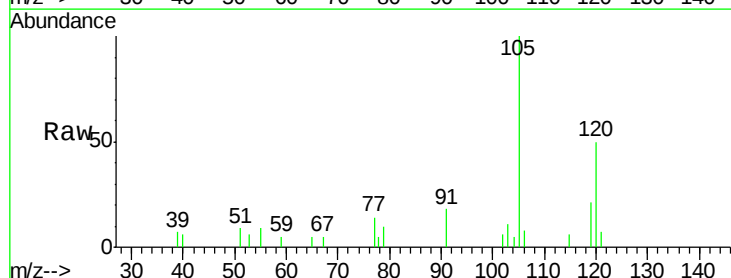
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

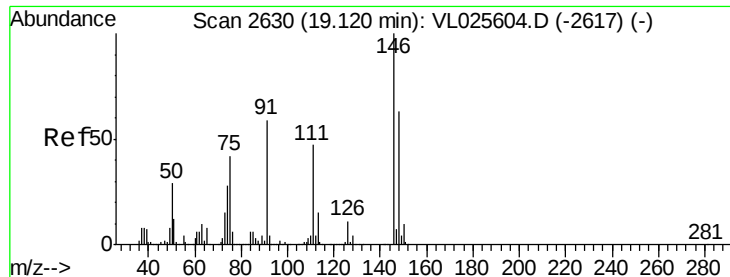
Tgt Ion: 95 Resp: 1434156
 Ion Ratio Lower Upper
 95 100
 174 62.6 52.0 78.0
 175 4.8 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.04 ppbv
 RT: 18.85 min Scan# 2585
 Delta R.T. 0.01 min
 Lab File: VL025812.D
 Acq: 31 Jul 2015 14:21

Tgt Ion: 105 Resp: 12951
 Ion Ratio Lower Upper
 105 100
 120 49.6 39.3 58.9
 91 18.4 43.8 65.6#
 77 14.4 18.3 27.5#

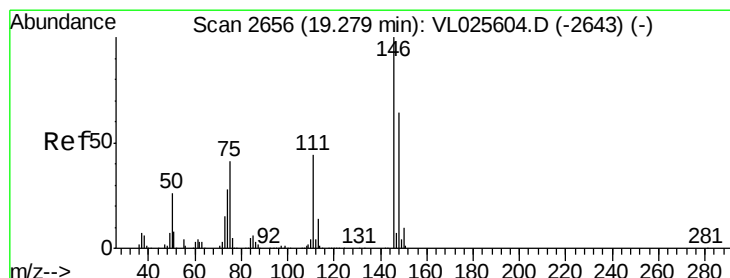
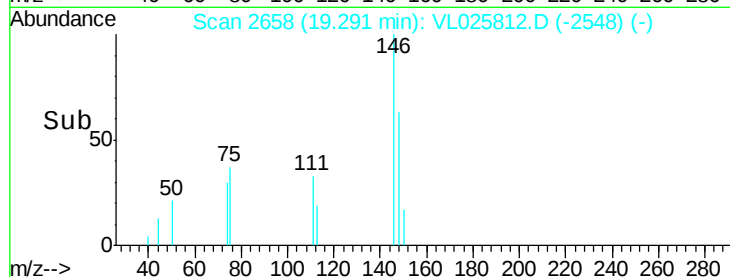
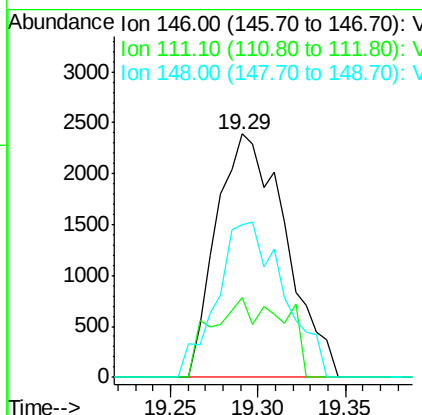
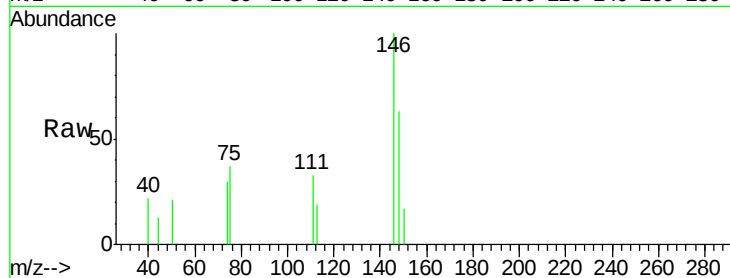




#75
 1,3-Dichlorobenzene
 Concen: 0.03 ppbv
 RT: 19.29 min Scan# 2658
 Delta R.T. 0.17 min
 Lab File: VL025812.D
 Acq: 31 Jul 2015 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tgt Ion:146 Resp: 6585
 Ion Ratio Lower Upper
 146 100
 111 33.9 22.7 68.1
 148 61.7 31.8 95.3



#76
 1,4-Dichlorobenzene
 Concen: 0.03 ppbv
 RT: 19.29 min Scan# 2658
 Delta R.T. 0.01 min
 Lab File: VL025812.D
 Acq: 31 Jul 2015 14:21

Tgt Ion:146 Resp: 6585
 Ion Ratio Lower Upper
 146 100
 111 33.9 22.1 66.1
 148 61.7 31.9 95.9

