

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
 Data File : VL025816.D
 Acq On : 31 Jul 2015 17:09
 Operator : SY/MD
 Sample : G3144-01DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Quant Time: Aug 03 04:40:22 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	714580	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1890247	10.00	ppbv	0.01
55) Chlorobenzene-d5	13.77	117	2315335	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.31	95	1920193	9.83	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

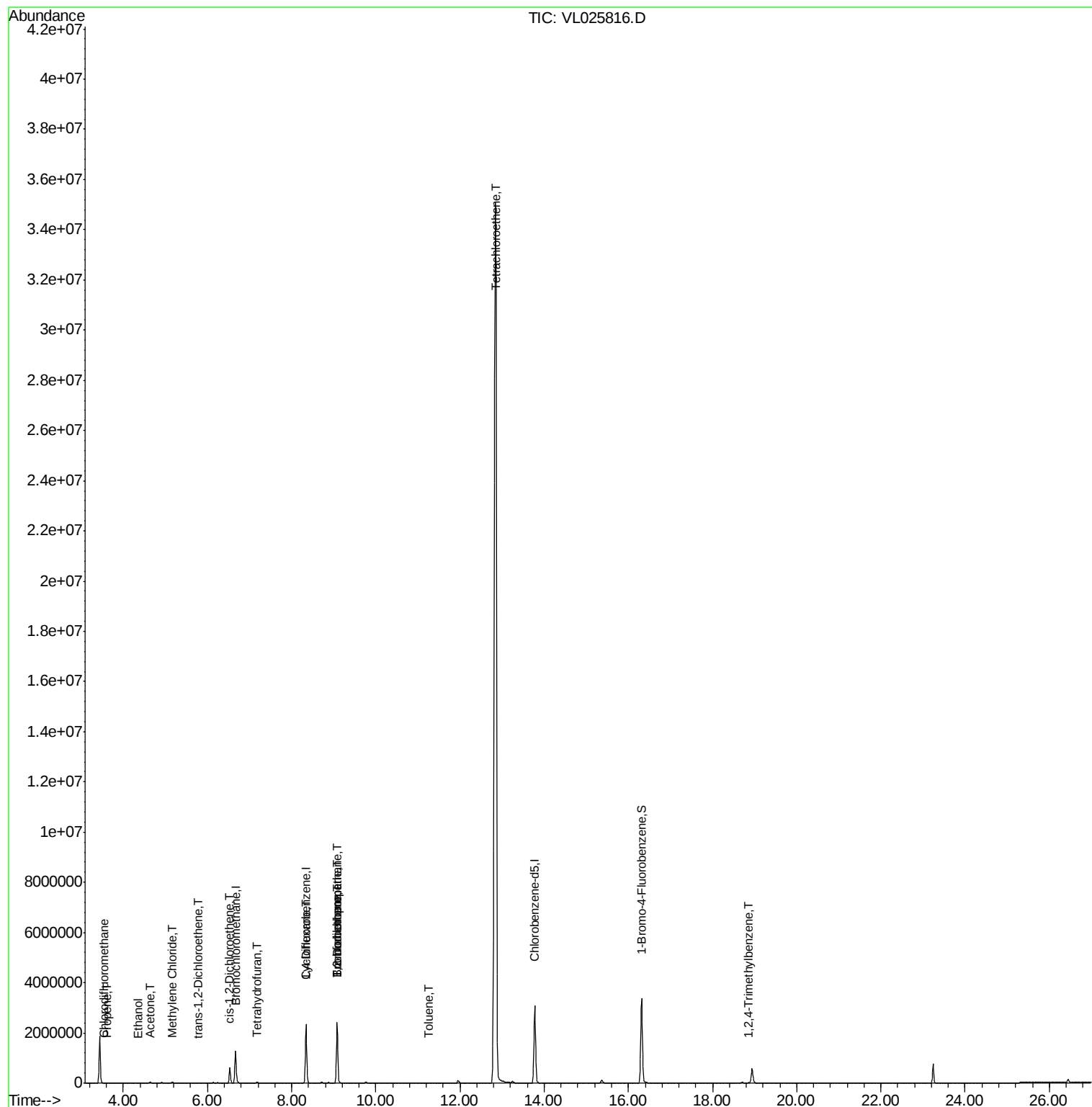
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.55	51	12207	0.12	ppbv #	51
9) Propene	3.62	41	2718	0.08	ppbv	91
13) Ethanol	4.36	45	1204	0.23	ppbv #	35
15) Acetone	4.65	43	45844	0.36	ppbv #	73
20) Methylene Chloride	5.17	84	17846	0.35	ppbv #	86
22) trans-1,2-Dichloroethene	5.78	96	2404	0.04	ppbv	91
30) Cyclohexane	8.34	84	4201	0.05	ppbv #	1
31) cis-1,2-Dichloroethene	6.53	61	422613	4.73	ppbv	97
38) Trichloroethene	9.08	130	870371	10.34	ppbv	95
39) 1,2-Dichloropropane	9.08	63	5537	0.08	ppbv #	1
41) Tetrahydrofuran	7.18	42	39096	0.73	ppbv	97
42) Bromodichloromethane	9.08	83	13603	0.07	ppbv	97
52) Tetrachloroethene	12.85	164	16161999	178.00	ppbv	86
53) Toluene	11.26	91	12028	0.05	ppbv	91
74) 1,2,4-Trimethylbenzene	18.86	105	16516	0.04	ppbv #	74

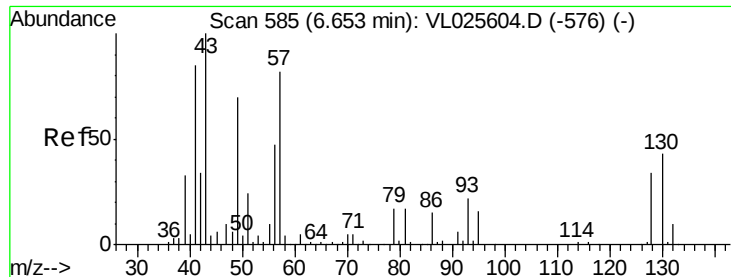
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 03 04:40:22 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: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

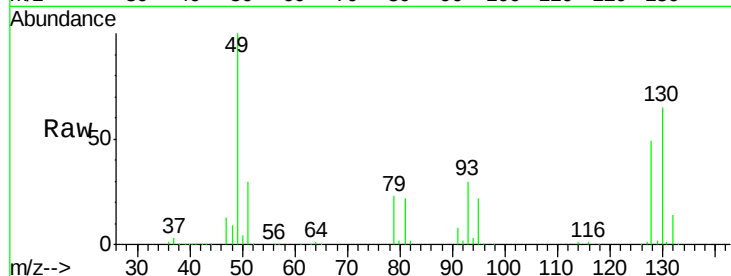
Tgt Ion: 49 Resp: 714580

Ion Ratio Lower Upper

49 100

128 50.7 25.4 76.0

130 65.1 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

6.67

300000

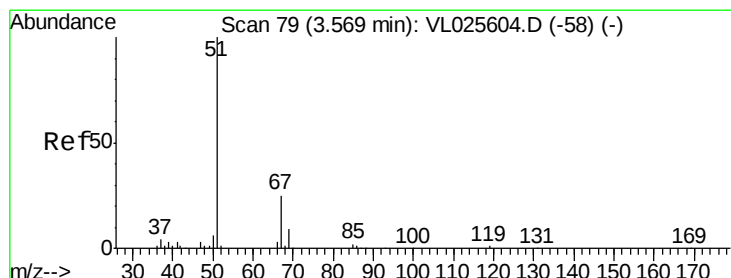
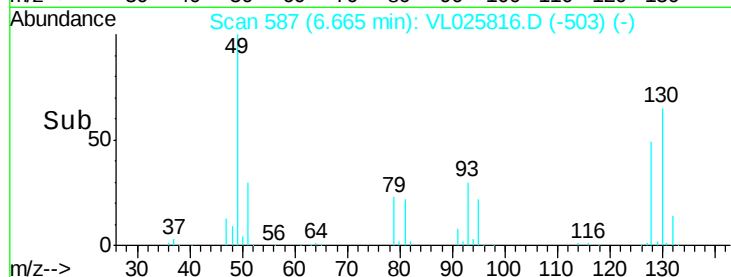
200000

100000

0

6.60 6.70 6.80

Time-->



#3

Chlorodifluoromethane

Concen: 0.12 ppbv

RT: 3.55 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL025816.D

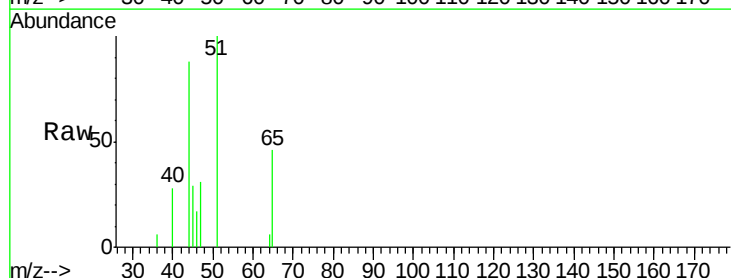
Acq: 31 Jul 2015 17:09

Tgt Ion: 51 Resp: 12207

Ion Ratio Lower Upper

51 100

67 0.0 19.5 29.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

6000

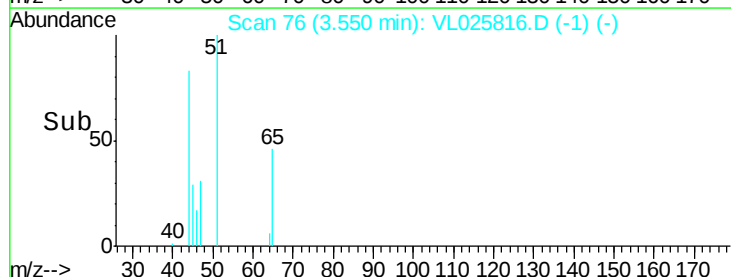
4000

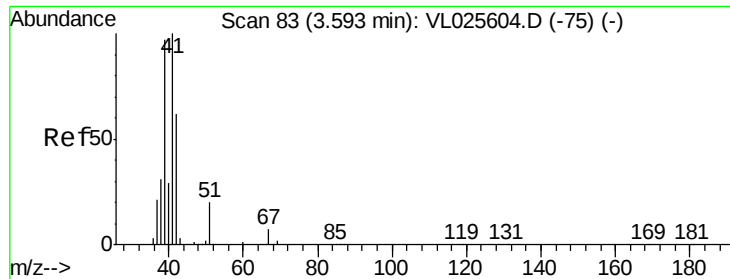
2000

0

3.50 3.60

Time-->





#9

Propene

Concen: 0.08 ppbv

RT: 3.62 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

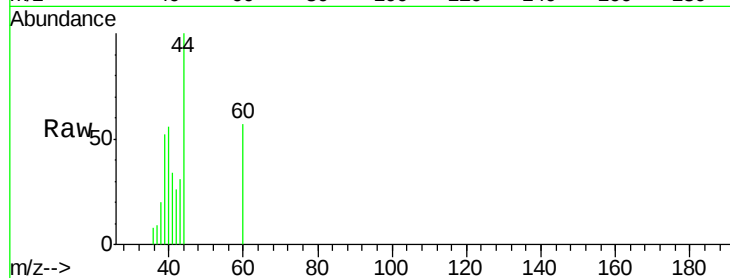
INFLUENTDL

Tgt Ion: 41 Resp: 2718

Ion Ratio Lower Upper

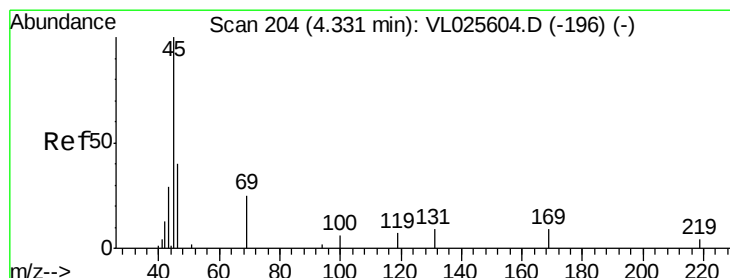
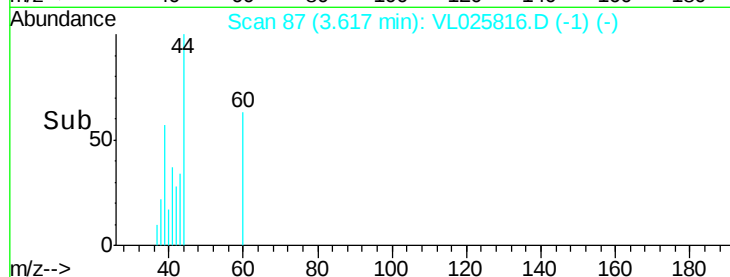
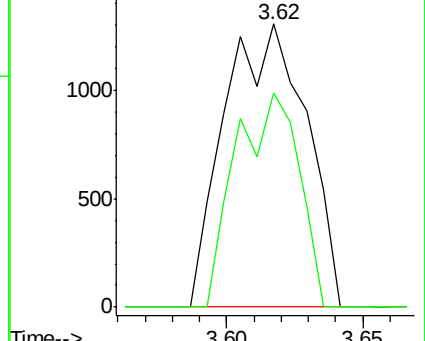
41 100

42 58.5 52.4 78.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.23 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.03 min

Lab File: VL025816.D

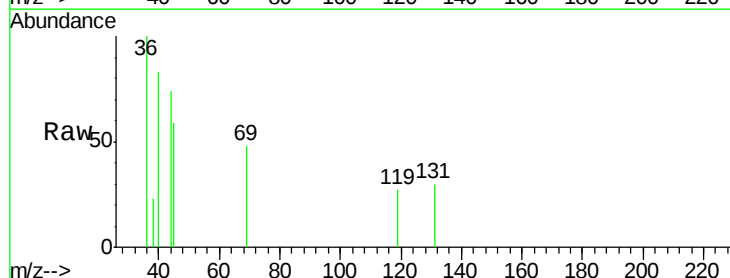
Acq: 31 Jul 2015 17:09

Tgt Ion: 45 Resp: 1204

Ion Ratio Lower Upper

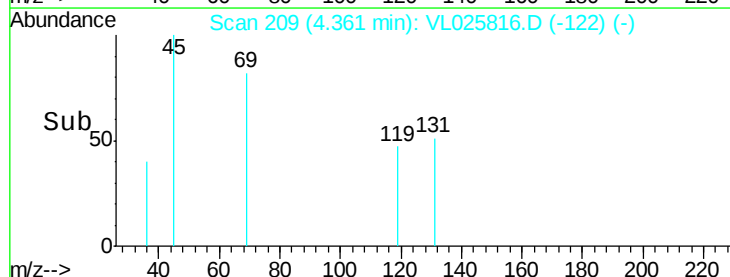
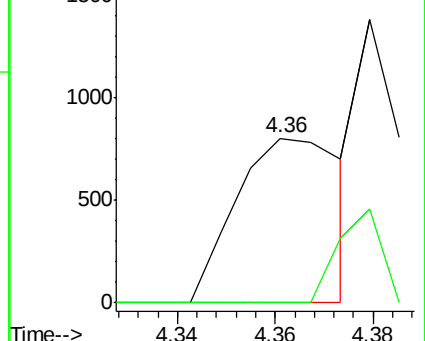
45 100

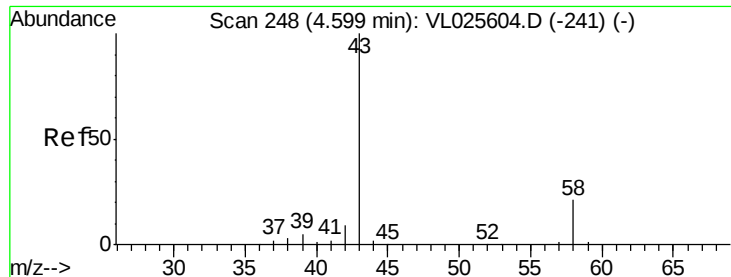
46 0.0 16.0 64.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.36 ppbv

RT: 4.65 min Scan# 256

Delta R.T. 0.05 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

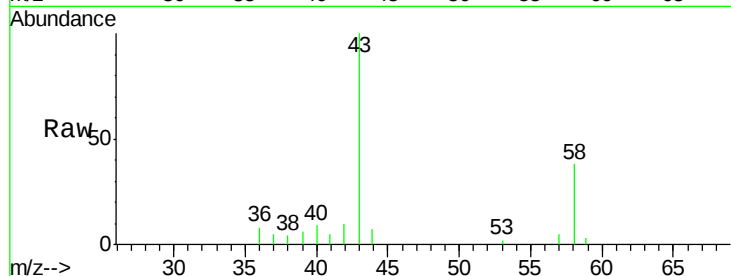
INFLUENTDL

Tgt Ion: 43 Resp: 45844

Ion Ratio Lower Upper

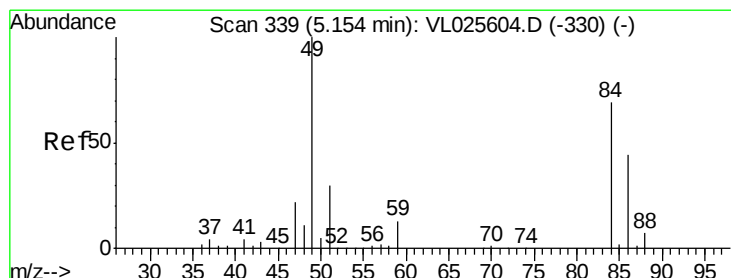
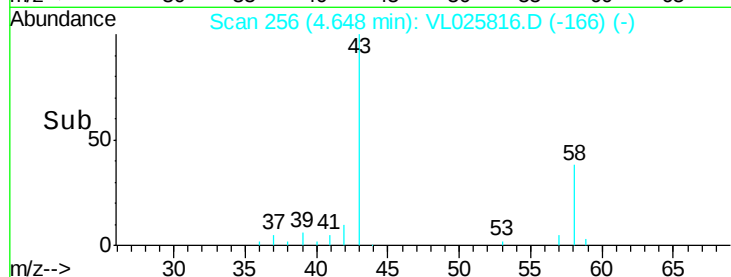
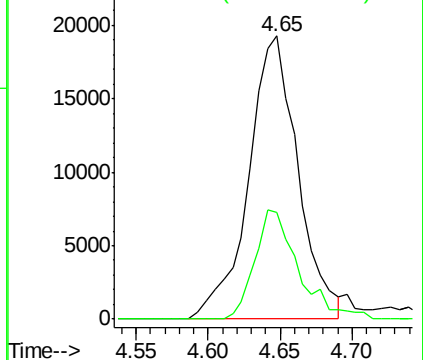
43 100

58 34.1 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.35 ppbv

RT: 5.17 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Tgt Ion: 84 Resp: 17846

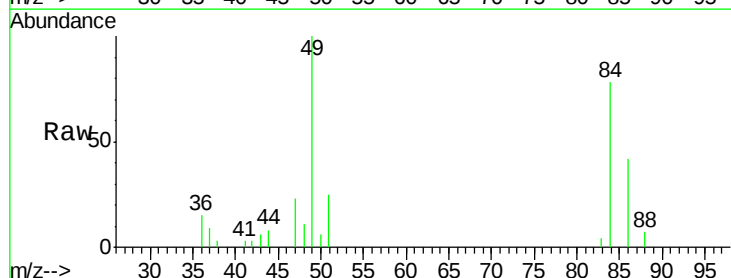
Ion Ratio Lower Upper

84 100

49 128.0 115.2 172.8

51 32.3 35.0 52.6#

86 54.0 50.6 76.0

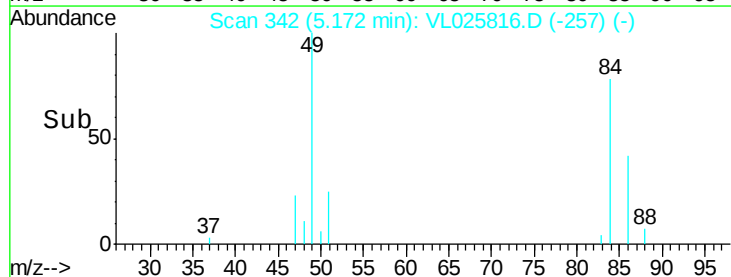
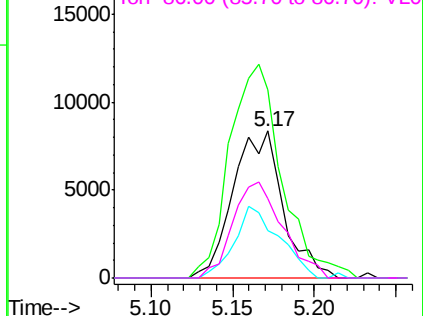


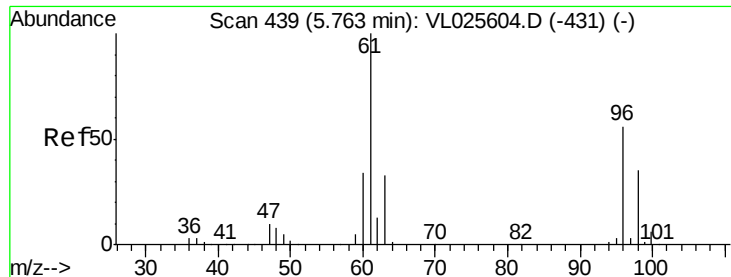
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.04 ppbv

RT: 5.78 min Scan# 441

Delta R.T. 0.01 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

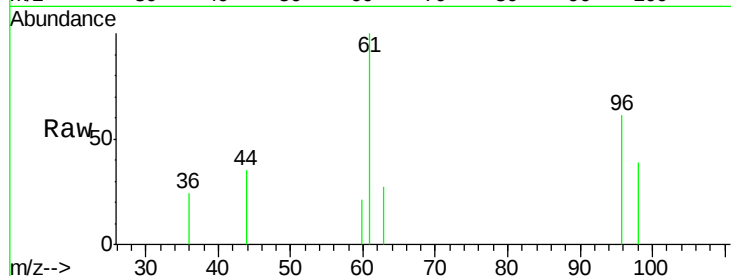
Tgt Ion: 96 Resp: 2404

Ion Ratio Lower Upper

96 100

61 162.8 141.8 212.6

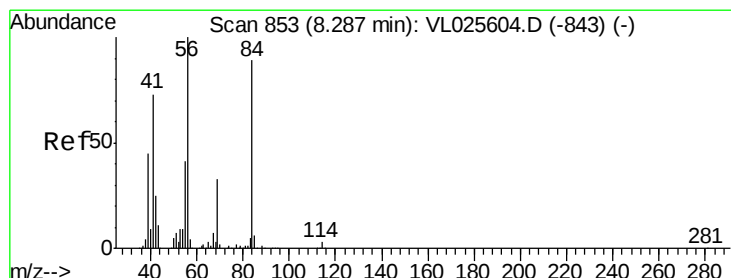
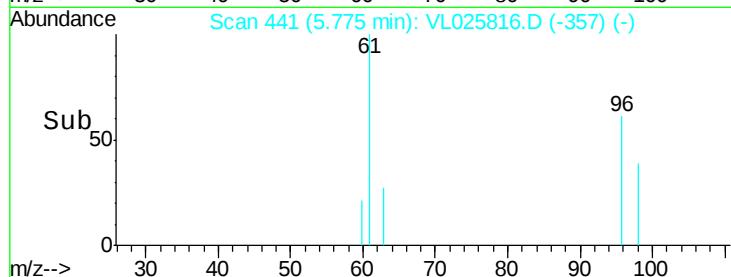
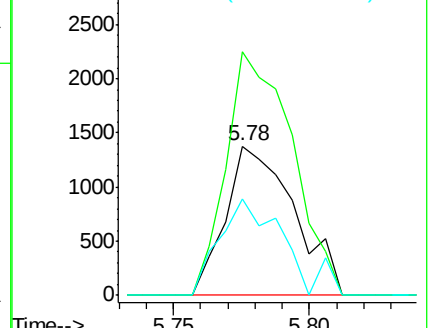
98 64.3 49.0 73.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#30

Cyclohexane

Concen: 0.05 ppbv

RT: 8.34 min Scan# 861

Delta R.T. 0.05 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

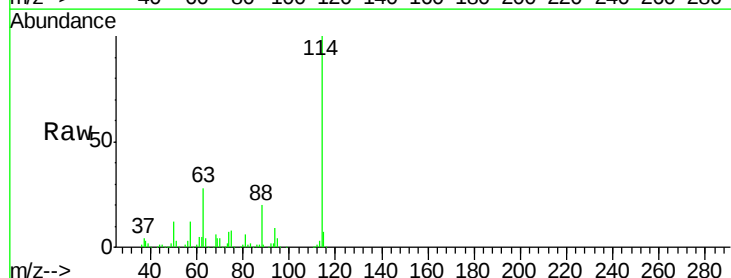
Tgt Ion: 84 Resp: 4201

Ion Ratio Lower Upper

84 100

56 1351.8 97.5 146.3#

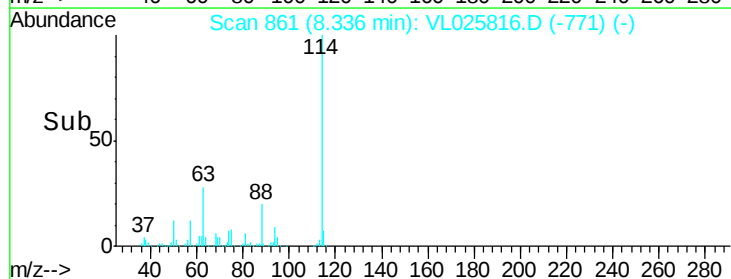
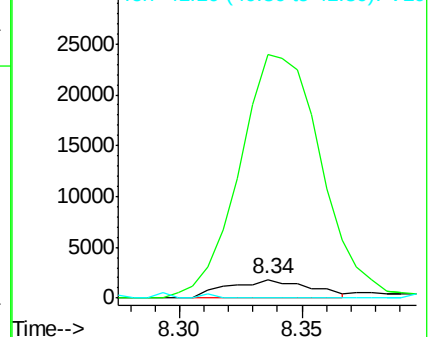
41 17.0 65.4 98.2#

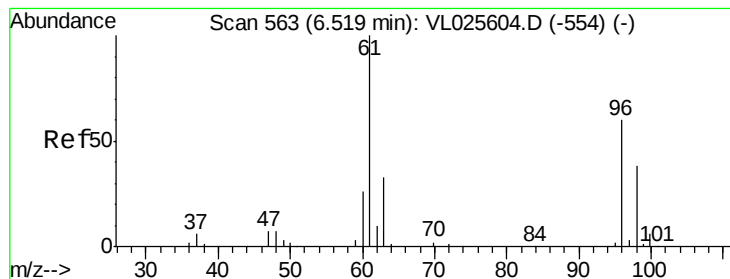


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 4.73 ppbv

RT: 6.53 min Scan# 565

Delta R.T. 0.01 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

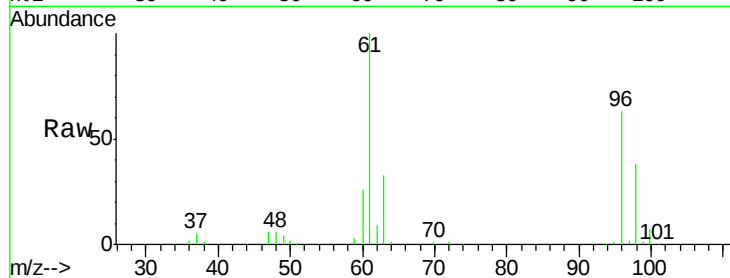
Tgt Ion: 61 Resp: 422613

Ion Ratio Lower Upper

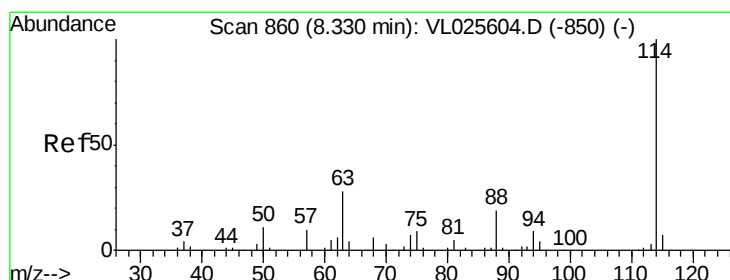
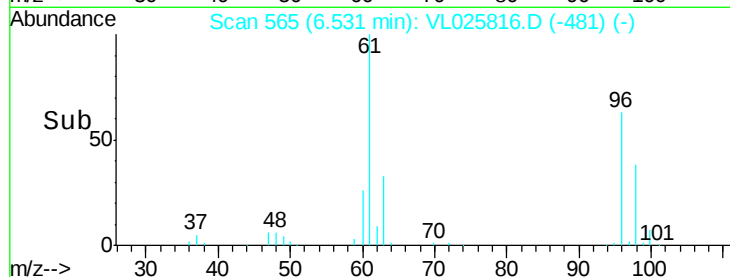
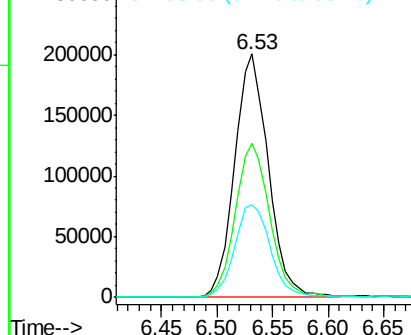
61 100

96 63.1 48.1 72.1

98 37.8 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: VL025816.D

Acq: 31 Jul 2015 17:09

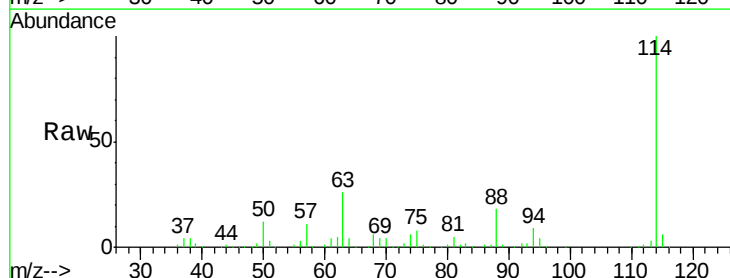
Tgt Ion: 114 Resp: 1890247

Ion Ratio Lower Upper

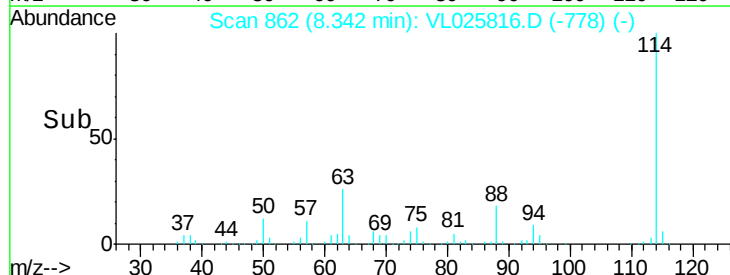
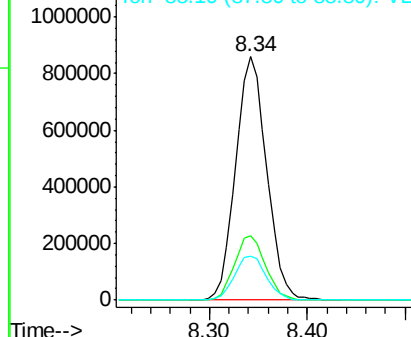
114 100

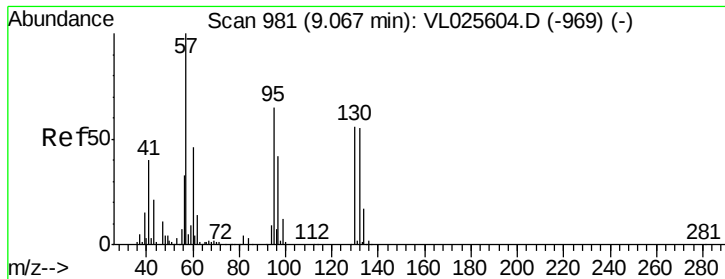
63 26.7 22.4 33.6

88 18.6 15.0 22.4



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





#38

Trichloroethene

Concen: 10.34 ppbv

RT: 9.08 min Scan# 983

Delta R.T. 0.01 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tgt Ion:130 Resp: 870371

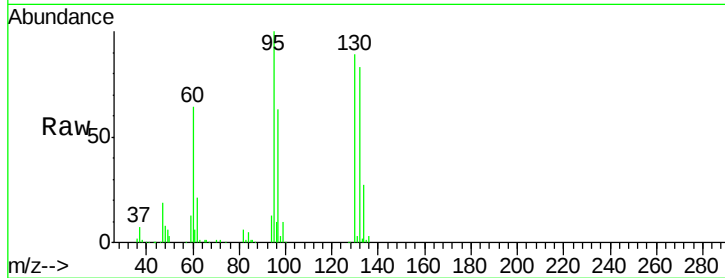
Ion Ratio Lower Upper

130 100

95 113.0 94.2 141.4

132 94.3 78.6 118.0

97 71.2 60.6 90.8

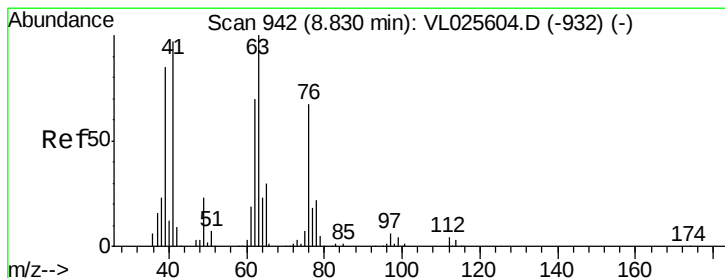
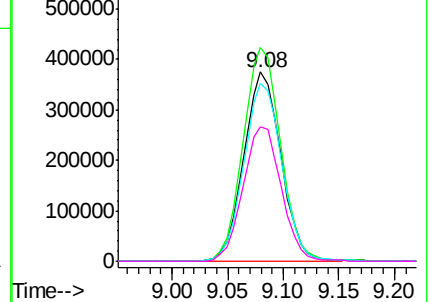
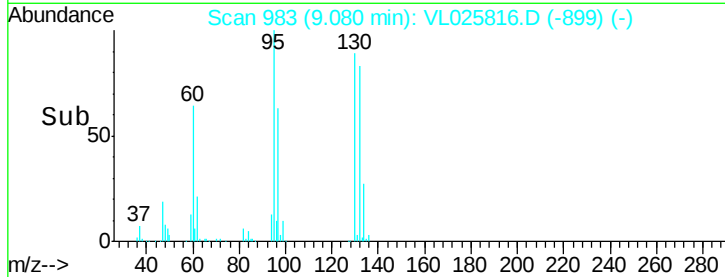


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.08 ppbv

RT: 9.08 min Scan# 983

Delta R.T. 0.25 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

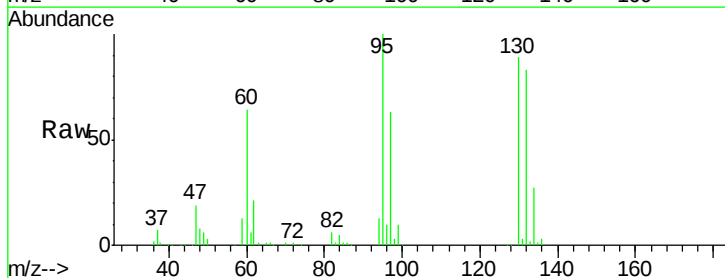
Tgt Ion: 63 Resp: 5537

Ion Ratio Lower Upper

63 100

41 17.0 78.0 117.0#

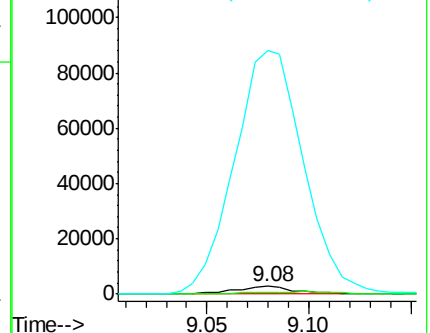
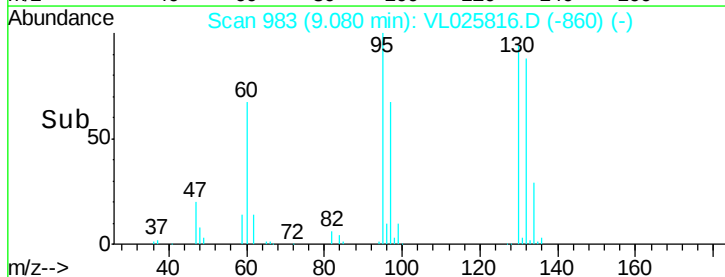
62 2945.5 55.7 83.5#

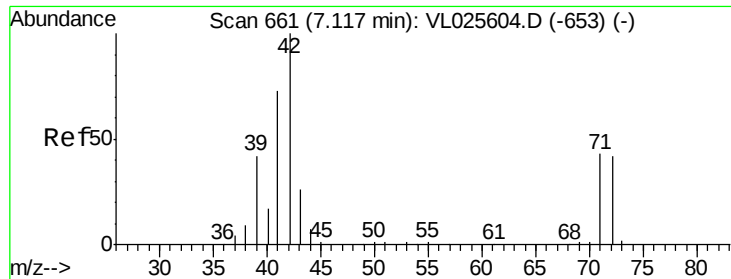


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.73 ppbv

RT: 7.18 min Scan# 671

Delta R.T. 0.06 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

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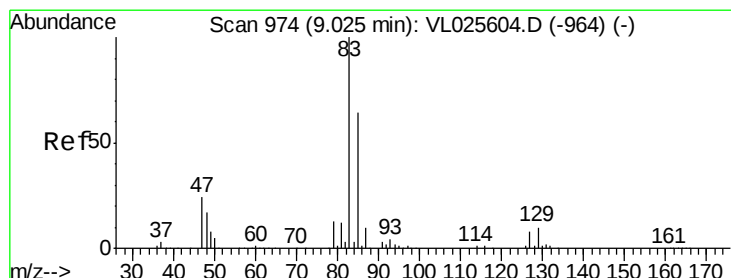
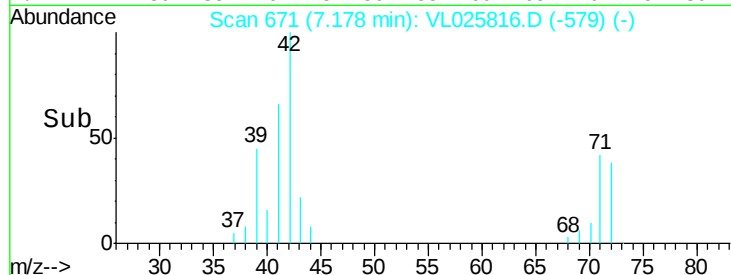
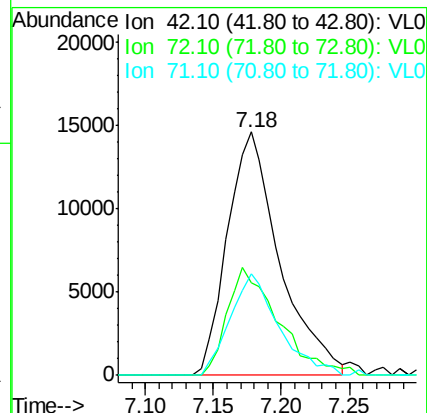
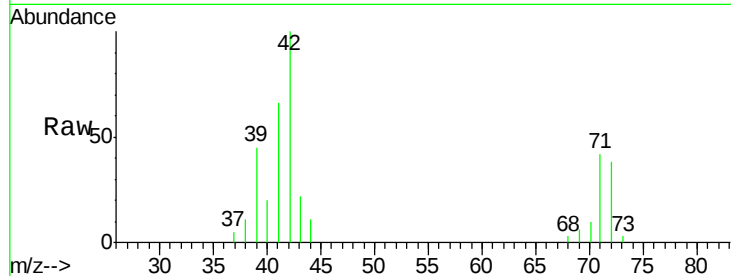
Tgt Ion: 42 Resp: 39096

Ion Ratio Lower Upper

42 100

72 43.6 34.0 51.0

71 39.2 33.0 49.6



#42

Bromodichloromethane

Concen: 0.07 ppbv

RT: 9.08 min Scan# 983

Delta R.T. 0.05 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

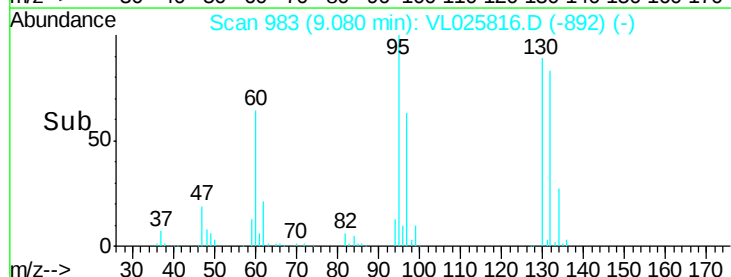
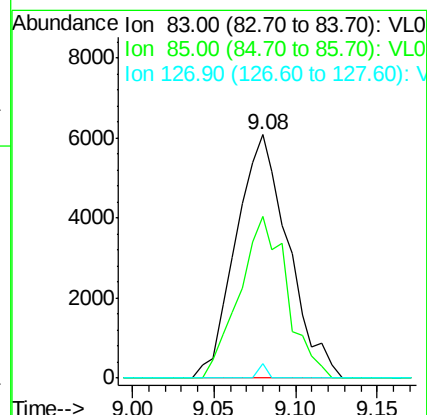
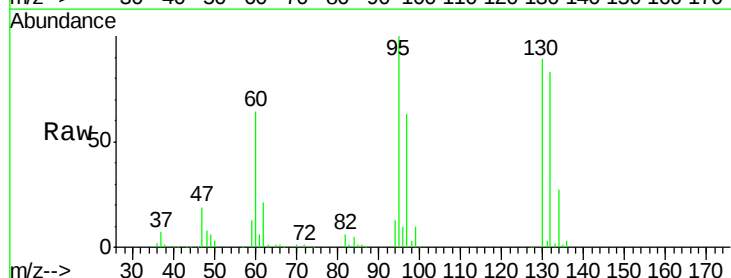
Tgt Ion: 83 Resp: 13603

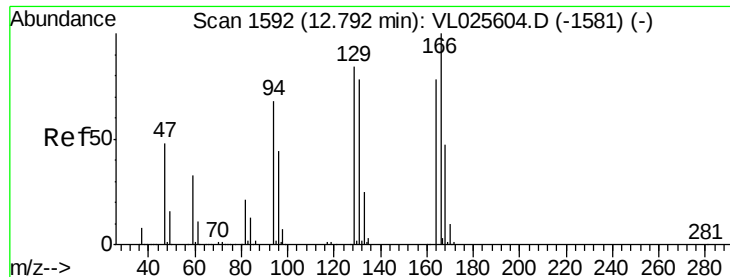
Ion Ratio Lower Upper

83 100

85 66.4 51.3 76.9

127 6.2 6.0 9.0

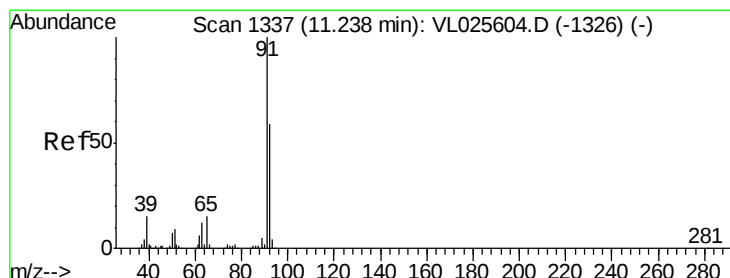
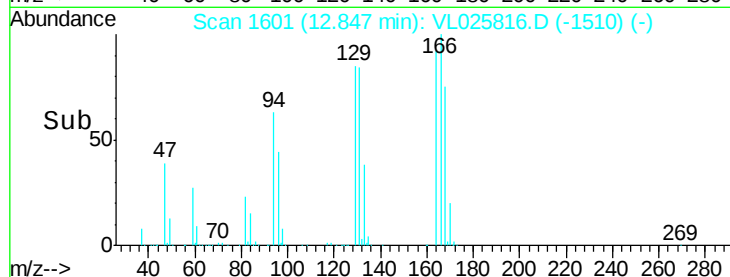
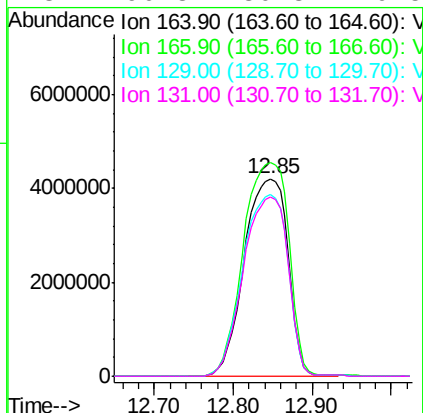
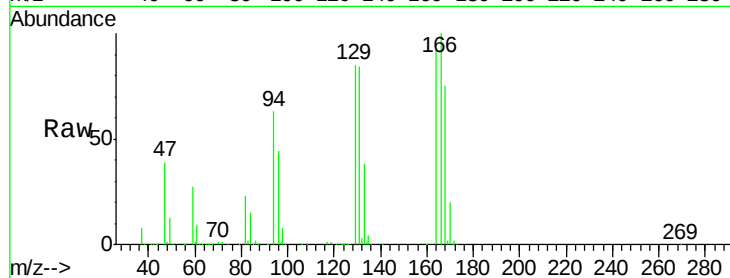




#52
Tetrachloroethene
Concen: 178.00 ppbv
RT: 12.85 min Scan# 1601
Delta R.T. 0.05 min
Lab File: VL025816.D
Acq: 31 Jul 2015 17:09

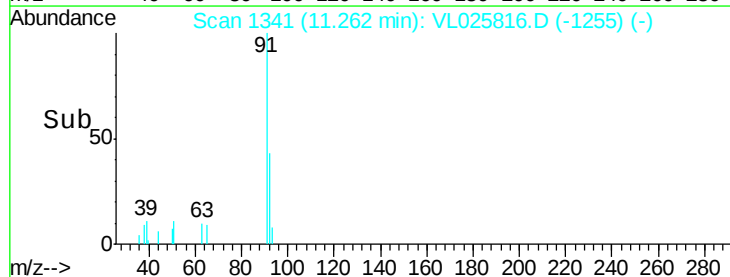
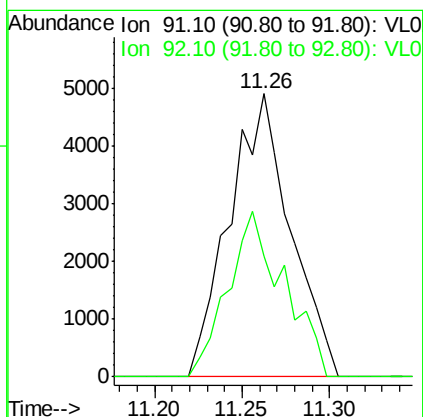
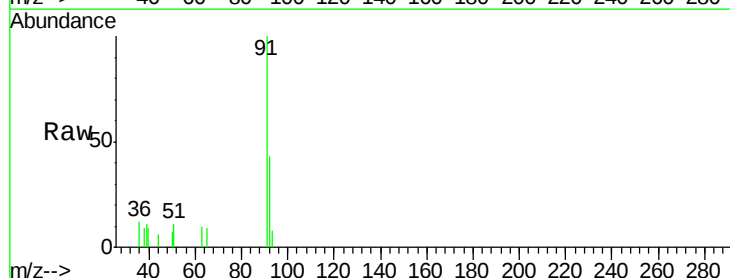
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

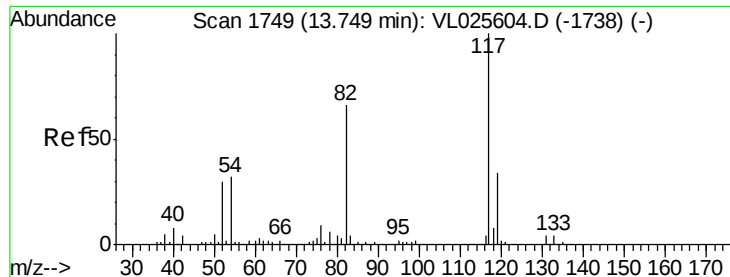
Tgt Ion:164 Resp:16161999
Ion Ratio Lower Upper
164 100
166 108.2 102.3 153.5
129 92.1 86.2 129.4
131 90.8 80.3 120.5



#53
Toluene
Concen: 0.05 ppbv
RT: 11.26 min Scan# 1341
Delta R.T. 0.02 min
Lab File: VL025816.D
Acq: 31 Jul 2015 17:09

Tgt Ion: 91 Resp: 12028
Ion Ratio Lower Upper
91 100
92 53.6 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.77 min Scan# 1753

Delta R.T. 0.02 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

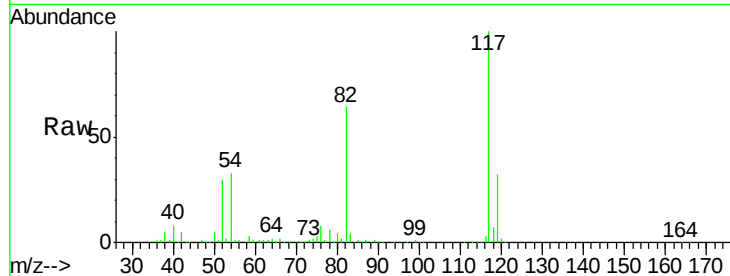
Tgt Ion:117 Resp: 2315335

Ion Ratio Lower Upper

117 100

82 65.2 50.5 75.7

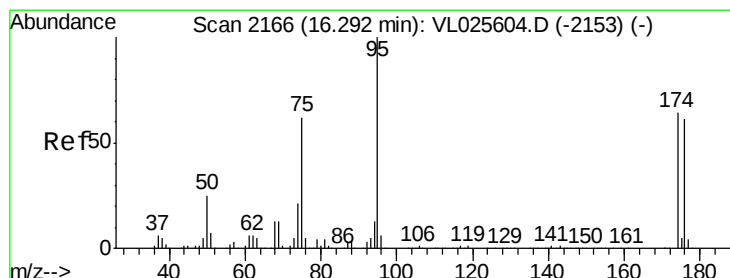
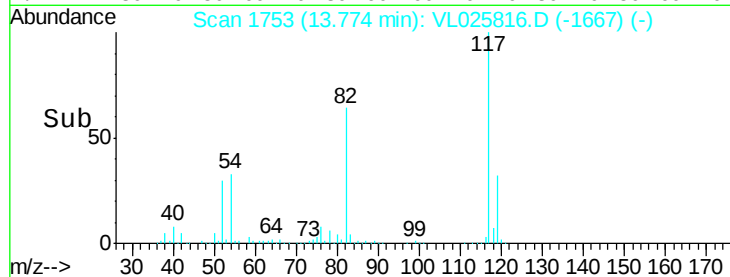
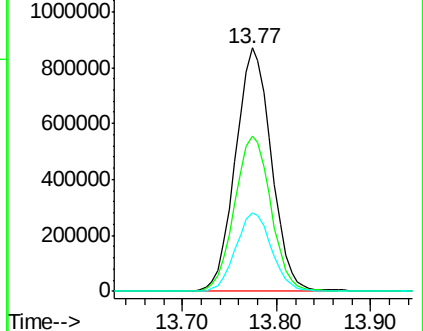
119 32.6 45.1 67.7#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.83 ppbv

RT: 16.31 min Scan# 2169

Delta R.T. 0.02 min

Lab File: VL025816.D

Acq: 31 Jul 2015 17:09

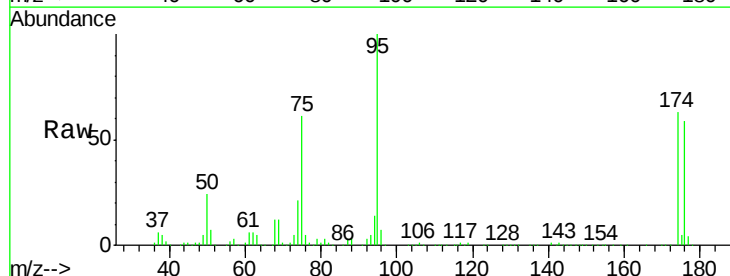
Tgt Ion: 95 Resp: 1920193

Ion Ratio Lower Upper

95 100

174 64.4 52.0 78.0

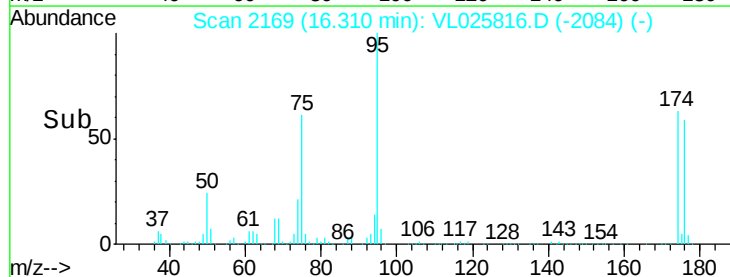
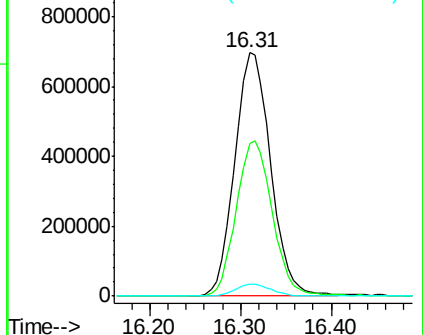
175 4.9 3.9 5.9

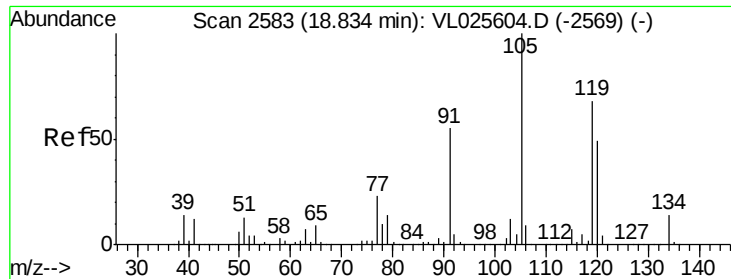


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.04 ppbv
 RT: 18.86 min Scan# 2587
 Delta R.T. 0.02 min
 Lab File: VL025816.D
 Acq: 31 Jul 2015 17:09

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Tgt Ion:	105	Resp:	16516
Ion	Ratio	Lower	Upper
105	100		
120	42.7	39.3	58.9
91	17.5	43.8	65.6
77	22.5	18.3	27.5

