

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026681.D
 Acq On : 12 Jan 2016 19:17
 Operator : SY/AP
 Sample : H1075-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 13 03:03:19 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	815775	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.37	114	2572091	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.79	117	3220013	10.00	ppbv	0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2659445	10.36	ppbv	0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	119531	0.55	ppbv	98
3) Chlorodifluoromethane	3.59	51	279702	2.58	ppbv	94
4) Chloromethane	3.78	50	17226	0.32	ppbv	96
7) Chloroethane	4.28	64	1861	0.07	ppbv #	44
9) Propene	3.85	41	308595	7.90	ppbv	86
10) Heptane	9.40	43	231044	1.59	ppbv	98
11) Trichlorofluoromethane	4.73	101	56189	0.25	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	5.34	101	9659	0.07	ppbv	98
13) Ethanol	4.35	45	291508	39.30	ppbv	97
15) Acetone	4.64	43	1982508	14.77	ppbv #	69
16) 1,3-Butadiene	3.97	39	79743	1.49	ppbv #	29
19) Isopropyl Alcohol	4.80	45	159712	2.89	ppbv #	1
20) Methylene Chloride	5.18	84	54299	0.99	ppbv #	92
21) Allyl Chloride	5.21	41	135689	1.65	ppbv #	57
23) Vinyl Acetate	5.99	43	258839	1.26	ppbv #	1
25) Ethyl Acetate	6.70	43	287206	1.39	ppbv #	82
26) Hexane	6.70	57	428895	4.01	ppbv #	47
27) Carbon Disulfide	5.43	76	19882	0.12	ppbv #	91
30) Cyclohexane	8.32	84	132821	1.26	ppbv #	79
34) 2-Butanone	6.24	43	98981	0.72	ppbv	100
35) Carbon Tetrachloride	8.21	117	9607	0.04	ppbv #	86
36) Benzene	8.06	78	443994	1.68	ppbv	99
41) Tetrahydrofuran	7.17	42	10500	0.15	ppbv #	50
42) Bromodichloromethane	9.04	83	20194	0.09	ppbv #	24
43) Methyl Methacrylate	9.31	69	3154	0.03	ppbv #	1
44) 2,2,4-Trimethylpentane	9.13	57	1001979	2.34	ppbv #	86
50) 4-Methyl-2-Pentanone	10.15	43	88796	0.46	ppbv	88
51) 2-Hexanone	11.69	43	12347	0.07	ppbv #	76
52) Tetrachloroethene	12.83	164	26911	0.20	ppbv #	86
53) Toluene	11.27	91	3317452	8.89	ppbv	100
58) Ethyl Benzene	14.46	91	835729	1.45	ppbv	98
59) m/p-Xylene	14.73	91	2340294	4.94	ppbv	99
60) o-Xylene	15.53	91	881671	1.72	ppbv	97
61) Styrene	15.35	104	56016	0.28	ppbv	97
62) Isopropylbenzene	16.58	105	376043	0.55	ppbv	100
64) n-propylbenzene	17.57	120	63673	0.35	ppbv	81
65) tert-Butylbenzene	18.87	119	130867	0.21	ppbv #	73
67) sec-Butylbenzene	19.46	105	47378	0.05	ppbv	99
69) p-Isopropyltoluene	19.69	119	60517	0.09	ppbv	96
70) n-Butylbenzene	20.80	91	124475	0.17	ppbv #	50
71) 2-Chlorotoluene	17.56	91	319433	0.60	ppbv #	46

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Instrument :
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ClientSampleId :

Quant Time: Jan 13 03:03:19 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration

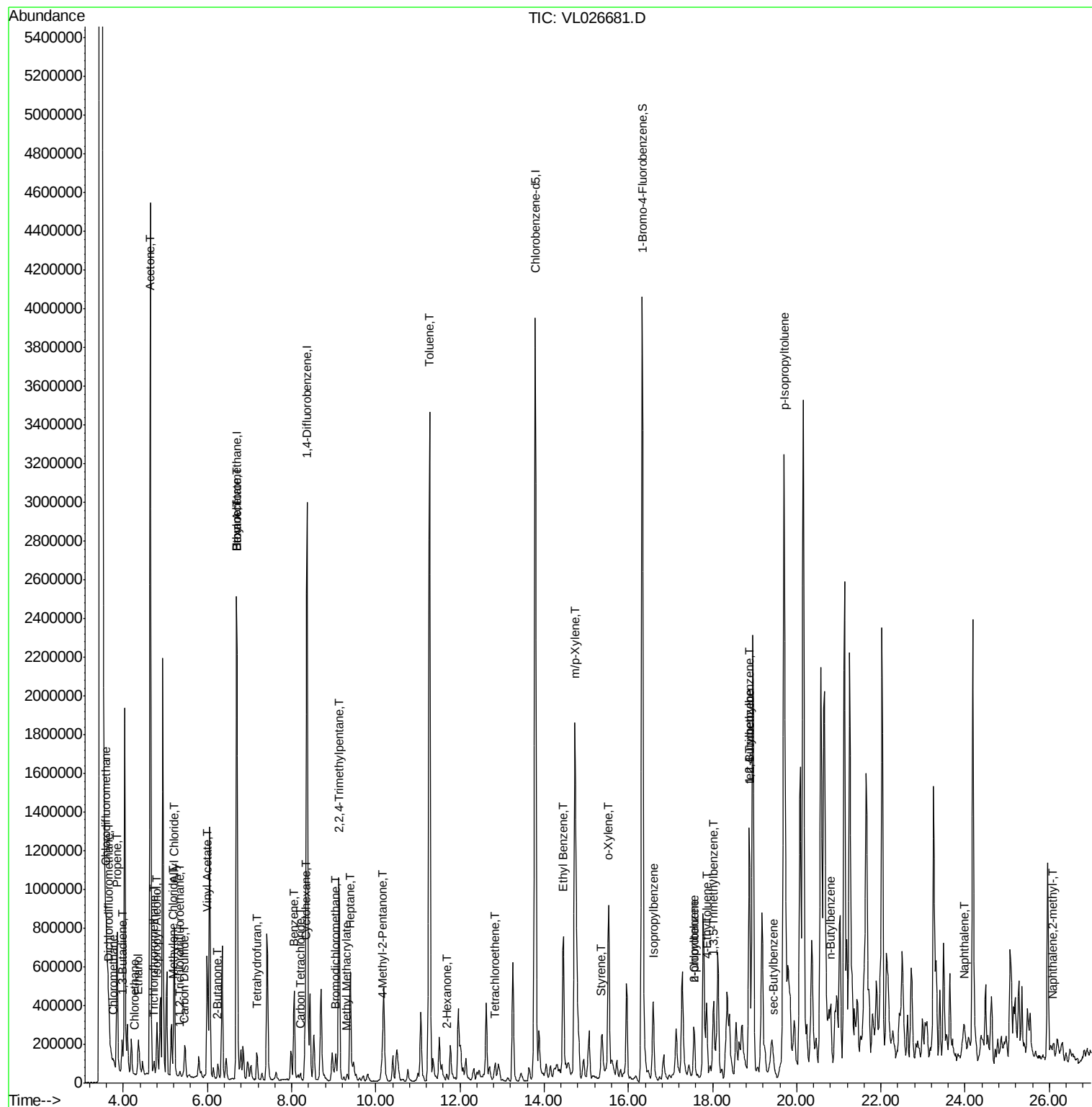
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	17.86	105	390934	0.68	ppbv	96
73) 1,3,5-Trimethylbenzene	18.03	105	298918	0.55	ppbv	99
74) 1,2,4-Trimethylbenzene	18.88	105	1155273	2.00	ppbv #	77
79) Naphthalene	23.97	128	176894	0.45	ppbv #	93
80) Naphthalene,2-methyl-	26.08	142	31183	0.52	ppbv #	67

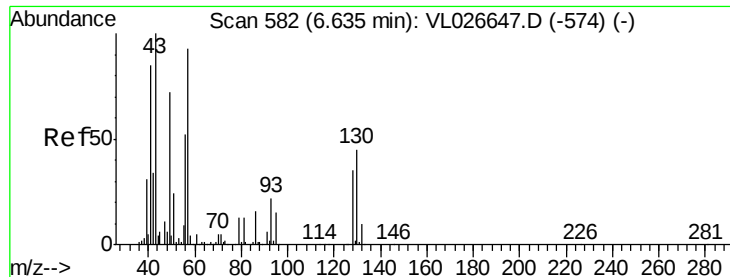
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :
MSVOA_L
ClientSampleId :

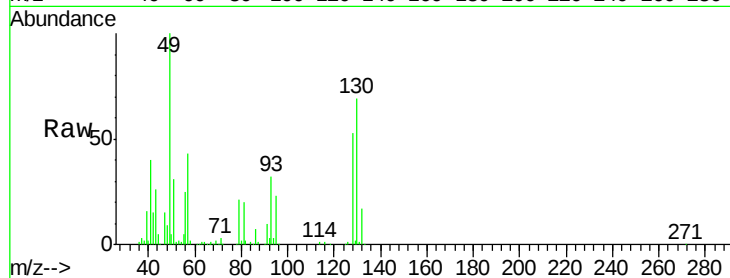
Tot Ion: 49 Resp: 815775

Ion Ratio Lower Upper

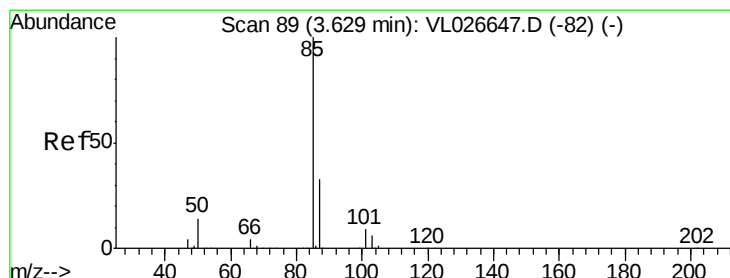
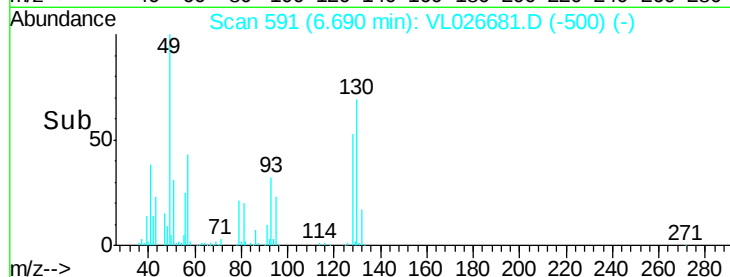
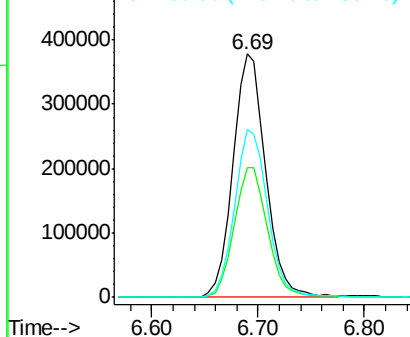
49 100

128 55.4 25.9 77.7

130 70.3 33.6 100.8



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: 0.55 ppbv

RT: 3.67 min Scan# 95

Delta R.T. 0.04 min

Lab File: VL026681.D

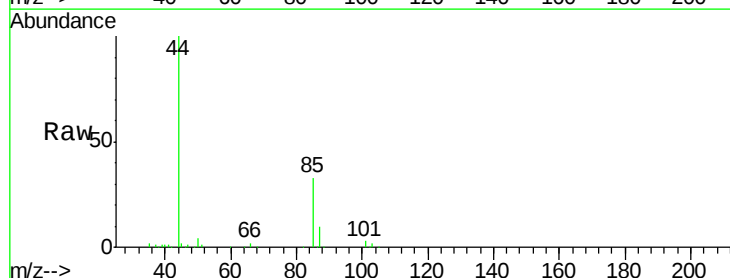
Acq: 12 Jan 2016 19:17

Tgt Ion: 85 Resp: 119531

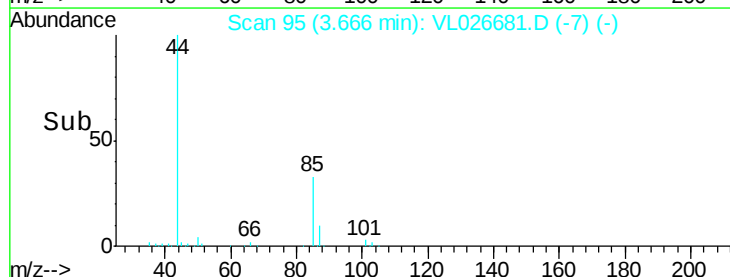
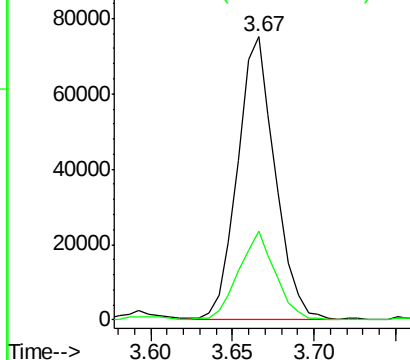
Ion Ratio Lower Upper

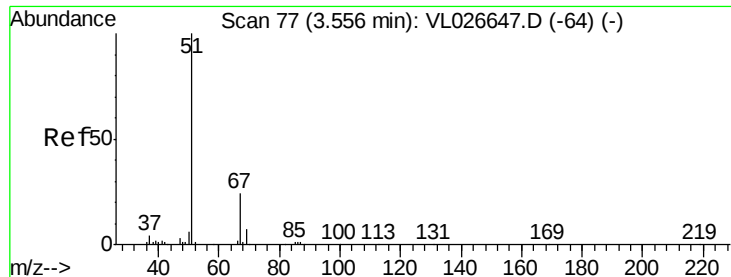
85 100

87 31.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

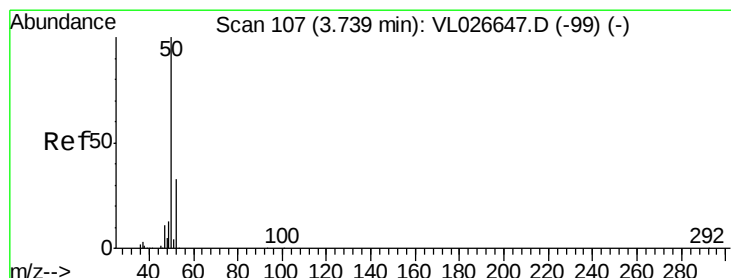
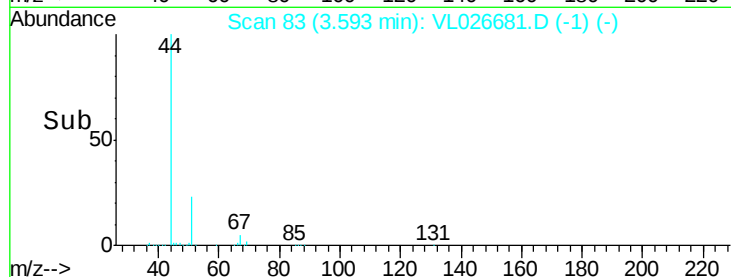
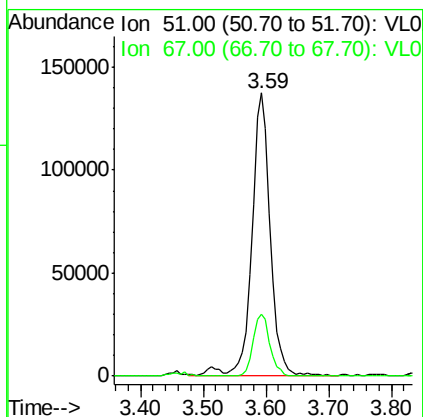
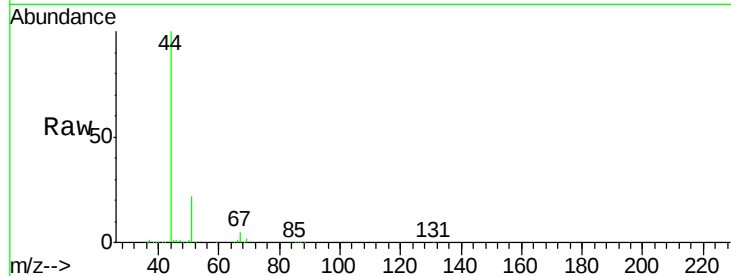




#3
 Chlorodifluoromethane
 Concen: 2.58 ppbv
 RT: 3.59 min Scan# 83
 Delta R.T. 0.04 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

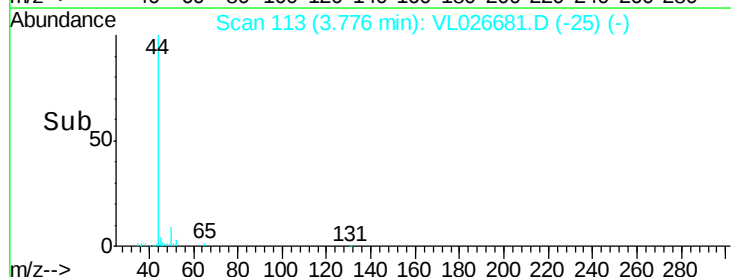
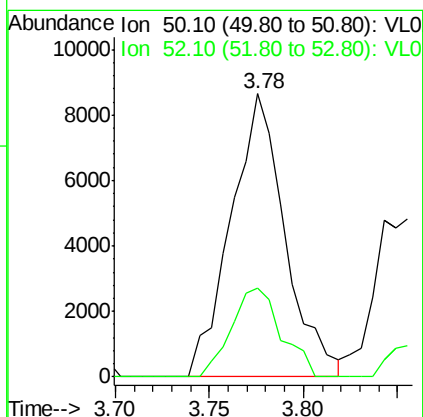
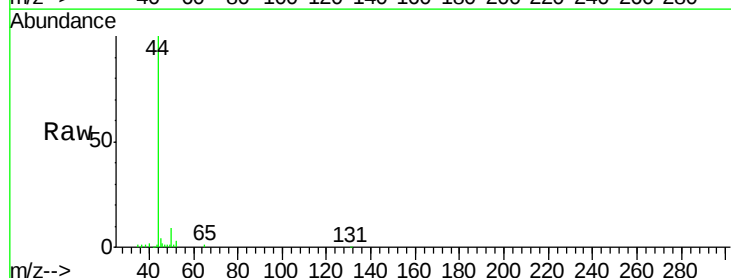
Instrument :
 MSVOA_L
 ClientSampleId :

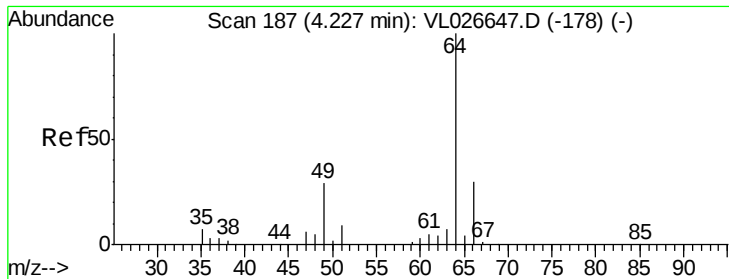
Tot Ion: 51 Resp: 279702
 Ion Ratio Lower Upper
 51 100
 67 20.3 18.6 28.0



#4
 Chloromethane
 Concen: 0.32 ppbv
 RT: 3.78 min Scan# 113
 Delta R.T. 0.04 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

Tgt Ion: 50 Resp: 17226
 Ion Ratio Lower Upper
 50 100
 52 31.3 26.7 40.1





#7

Chloroethane

Concen: 0.07 ppbv

RT: 4.28 min Scan# 195

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

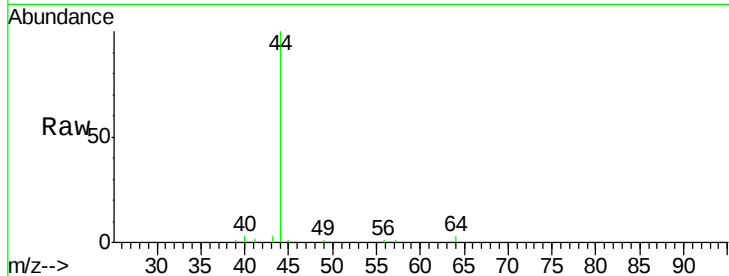
ClientSampled :

Tot Ion: 64 Resp: 1861

Ion Ratio Lower Upper

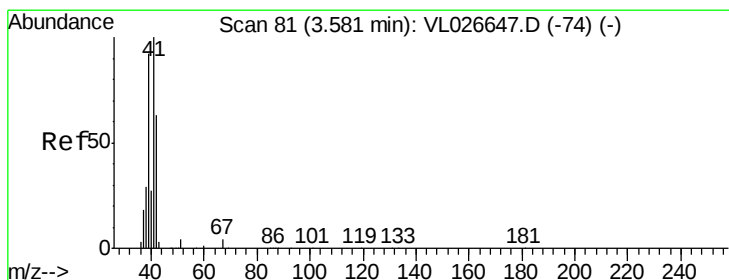
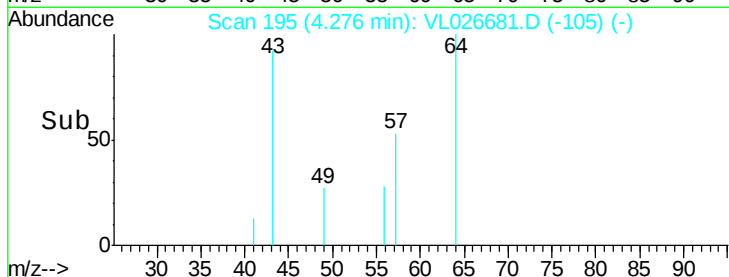
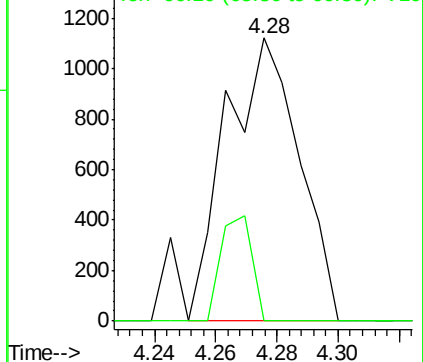
64 100

66 0.0 24.3 36.5#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 7.90 ppbv

RT: 3.85 min Scan# 125

Delta R.T. 0.27 min

Lab File: VL026681.D

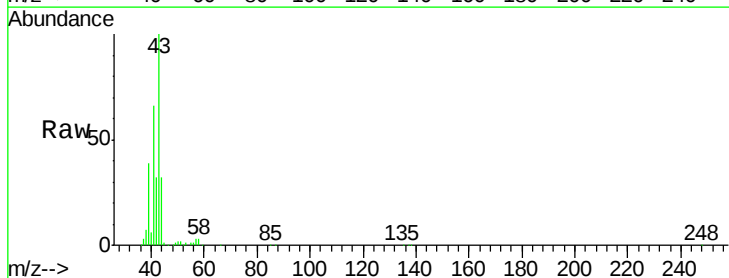
Acq: 12 Jan 2016 19:17

Tgt Ion: 41 Resp: 308595

Ion Ratio Lower Upper

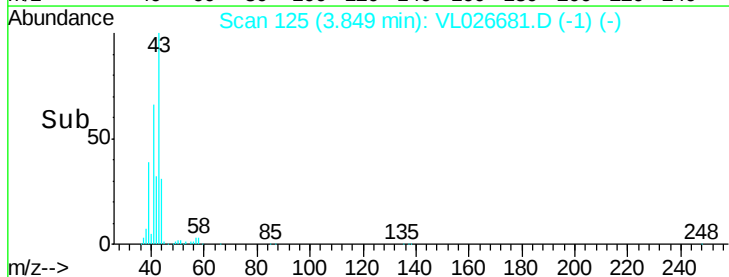
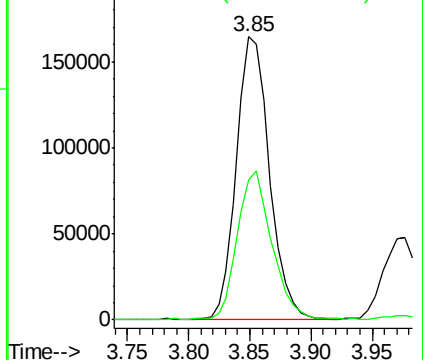
41 100

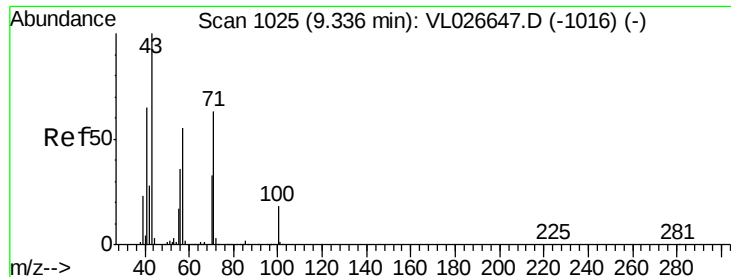
42 56.0 53.6 80.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.59 ppbv

RT: 9.40 min Scan# 1035

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

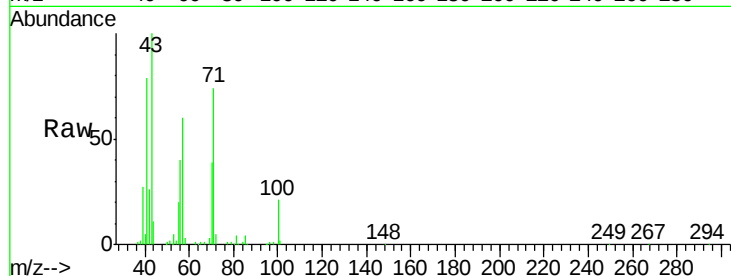
ClientSampleId :

Tot Ion: 43 Resp: 231044

Ion Ratio Lower Upper

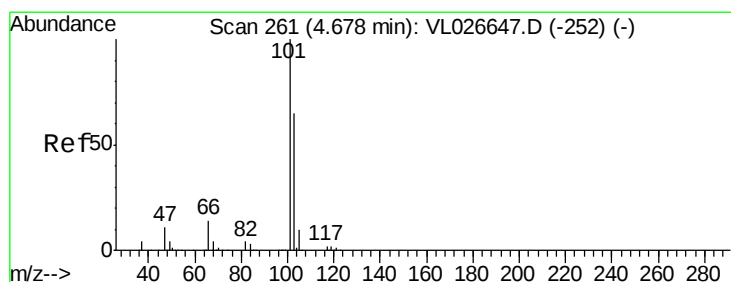
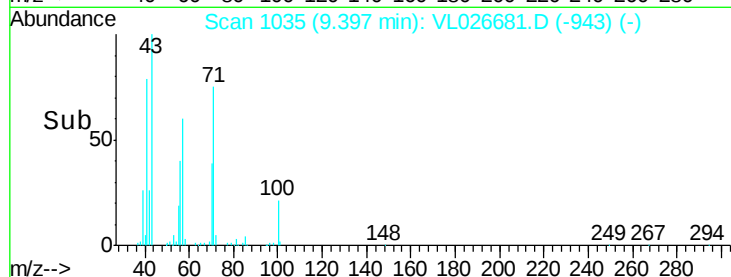
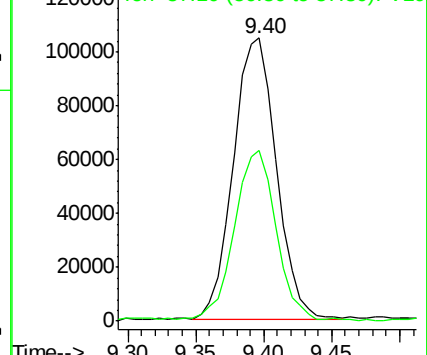
43 100

57 58.7 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.25 ppbv

RT: 4.73 min Scan# 270

Delta R.T. 0.05 min

Lab File: VL026681.D

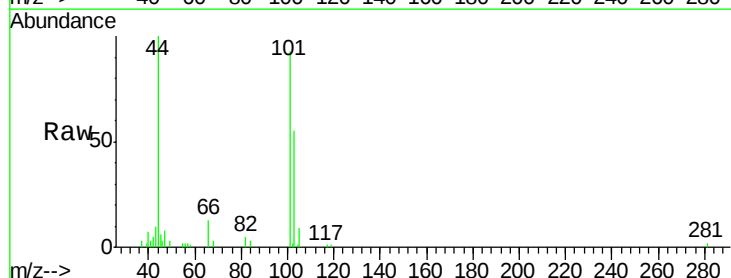
Acq: 12 Jan 2016 19:17

Tgt Ion: 101 Resp: 56189

Ion Ratio Lower Upper

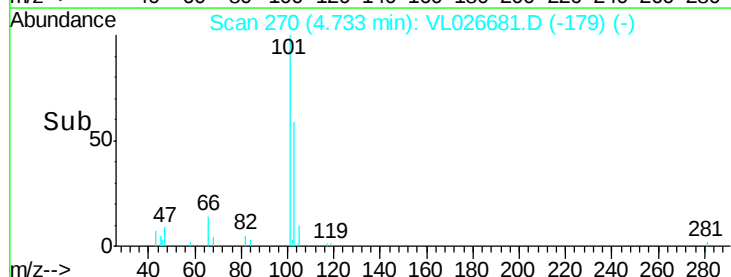
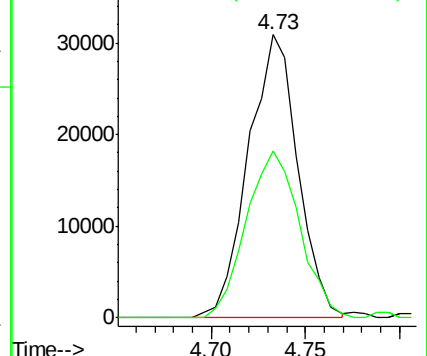
101 100

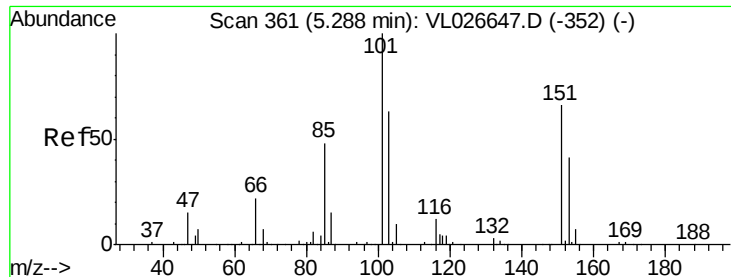
103 58.8 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.07 ppbv

RT: 5.34 min Scan# 370

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

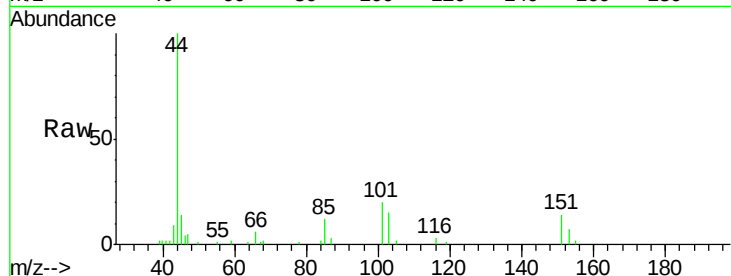
ClientSampleId :

Tot Ion:101 Resp: 9659

Ion Ratio Lower Upper

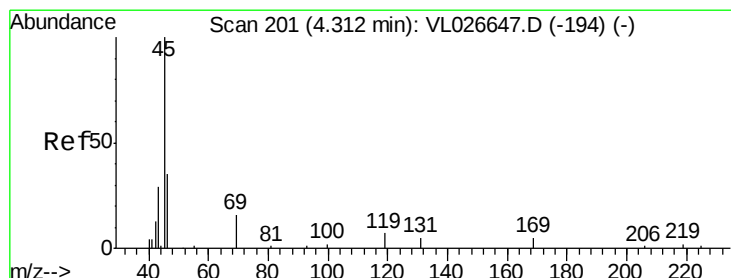
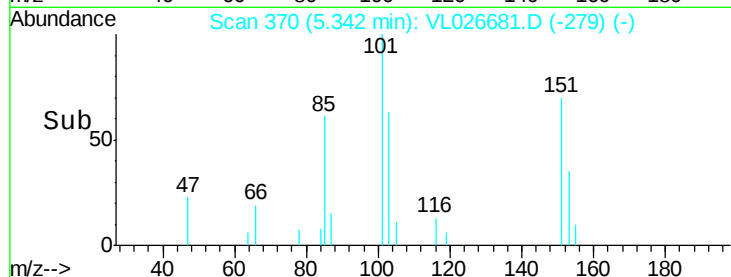
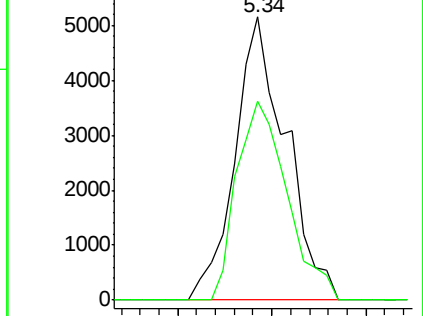
101 100

151 69.3 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 39.30 ppbv

RT: 4.35 min Scan# 208

Delta R.T. 0.04 min

Lab File: VL026681.D

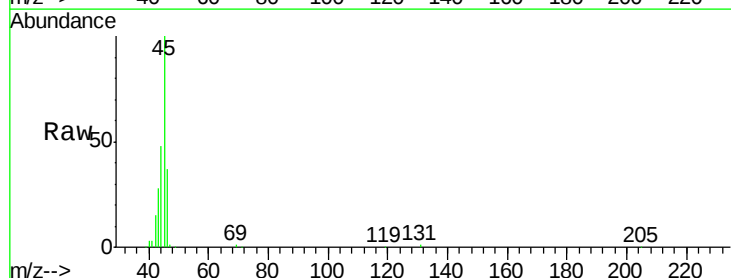
Acq: 12 Jan 2016 19:17

Tgt Ion: 45 Resp: 291508

Ion Ratio Lower Upper

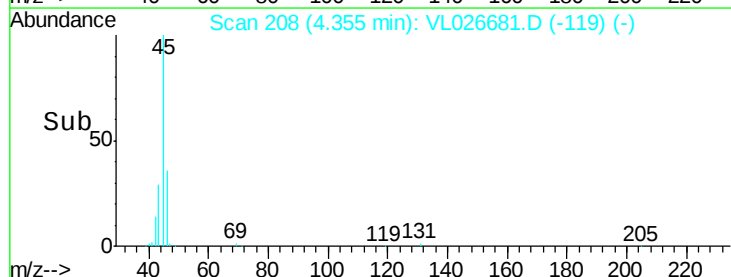
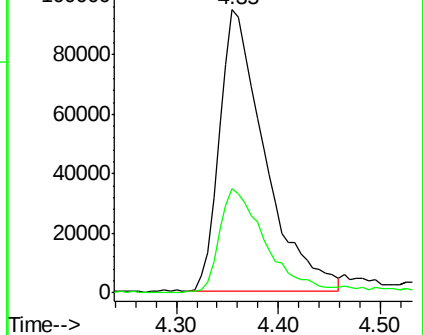
45 100

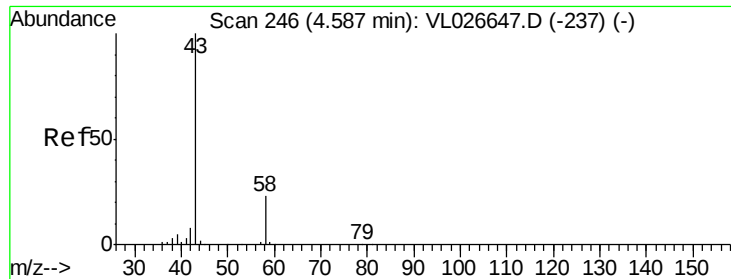
46 40.1 16.7 66.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 14.77 ppbv

RT: 4.64 min Scan# 255

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

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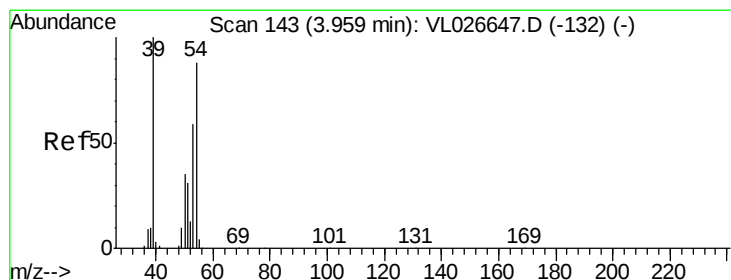
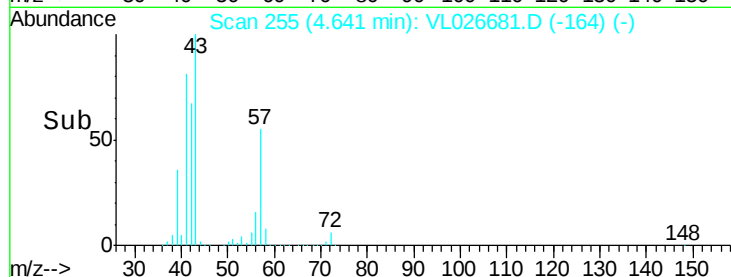
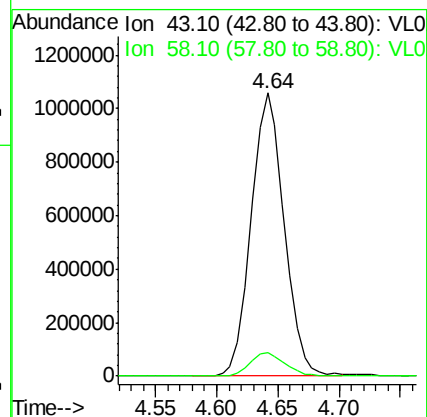
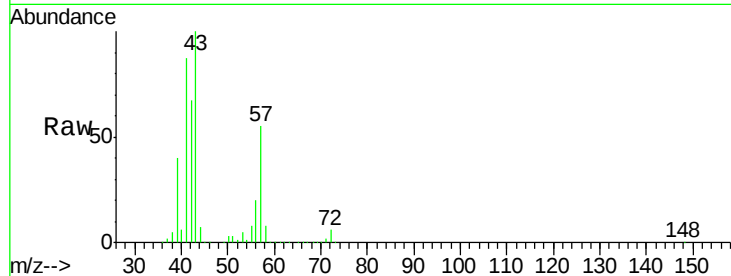
ClientSampled :

Tot Ion: 43 Resp: 1982508

Ion Ratio Lower Upper

43 100

58 8.9 19.2 28.8#



#16

1,3-Butadiene

Concen: 1.49 ppbv

RT: 3.97 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL026681.D

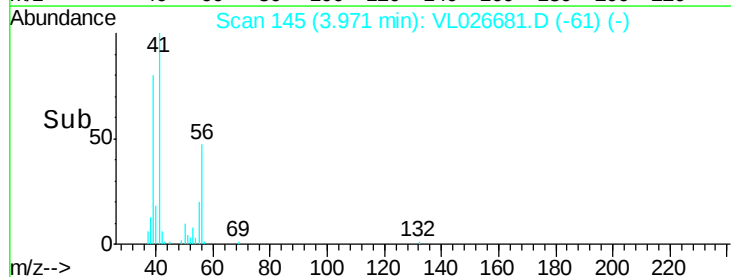
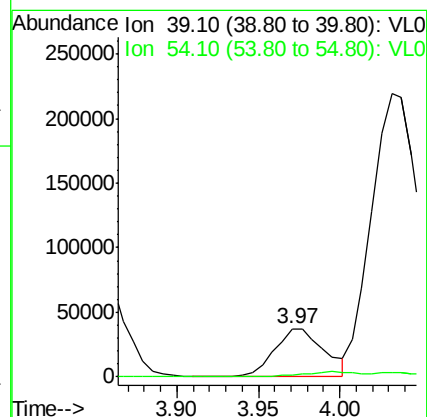
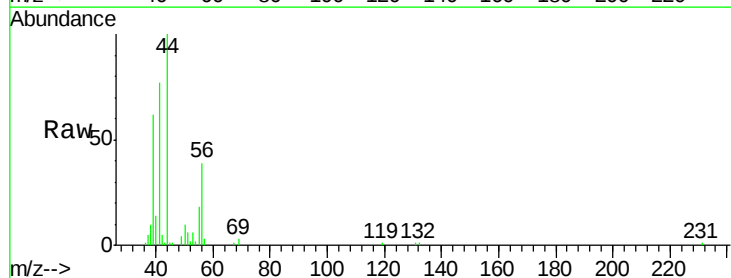
Acq: 12 Jan 2016 19:17

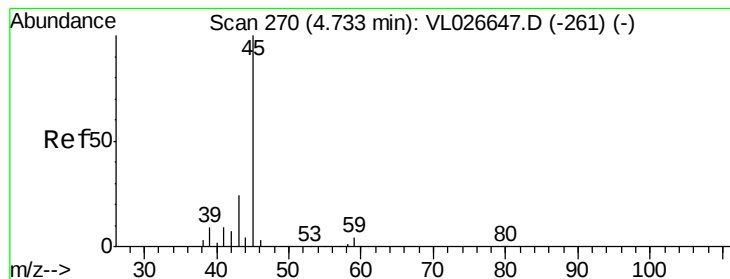
Tgt Ion: 39 Resp: 79743

Ion Ratio Lower Upper

39 100

54 19.3 66.6 100.0#



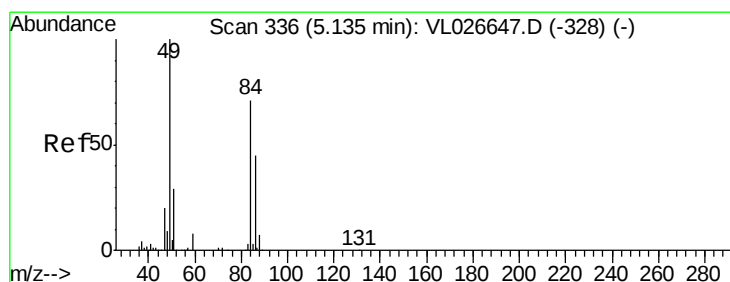
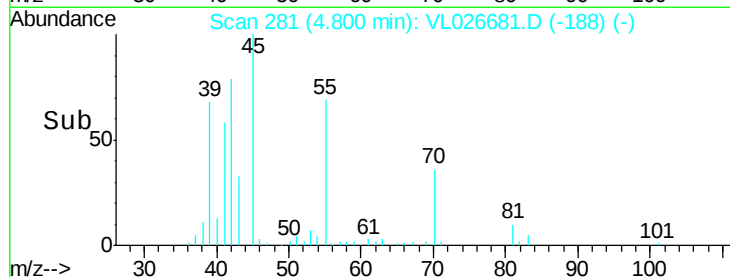
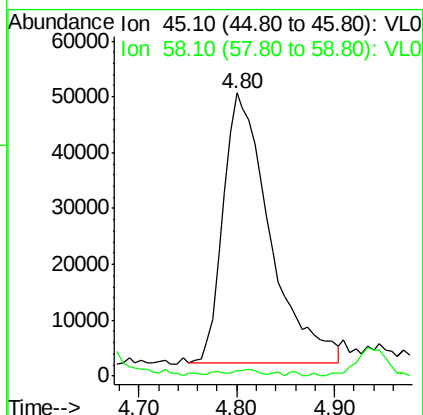
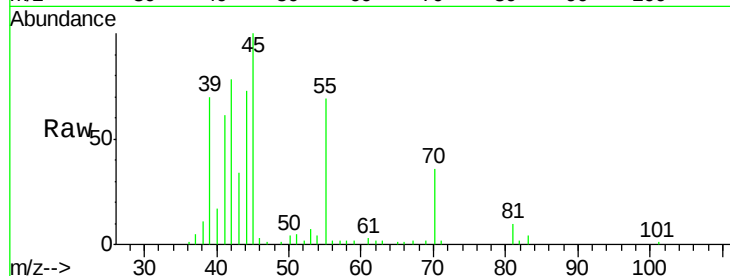


#19

Isopropyl Alcohol
 Concen: 2.89 ppbv
 RT: 4.80 min Scan# 281
 Delta R.T. 0.07 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

Instrument :
 MSVOA_L
 ClientSampleId :

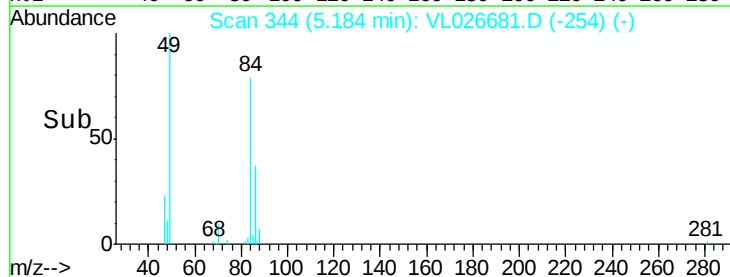
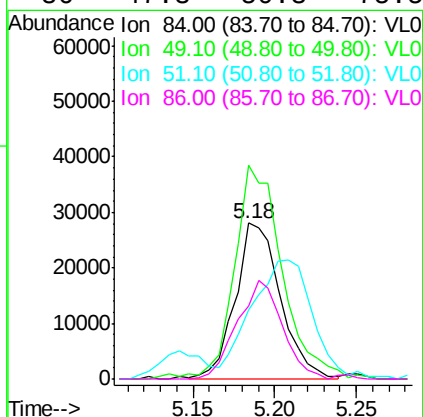
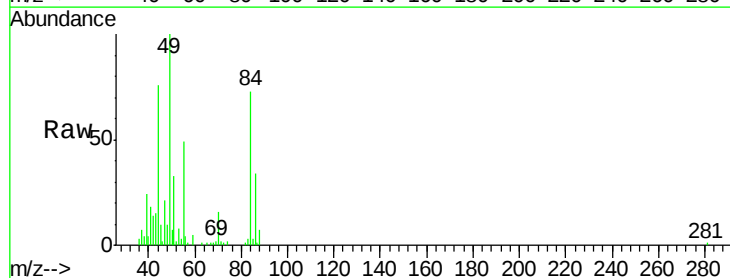
Tot Ion: 45 Resp: 159712
 Ion Ratio Lower Upper
 45 100
 58 110.2 1.3 1.9#

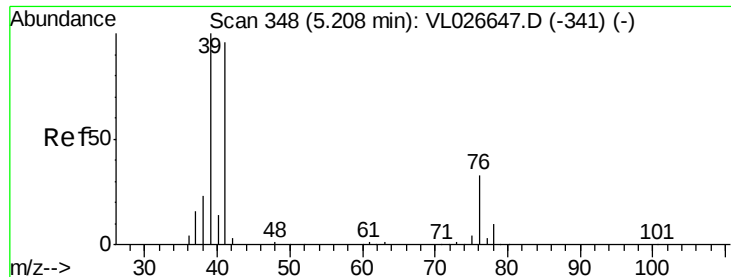


#20

Methylene Chloride
 Concen: 0.99 ppbv
 RT: 5.18 min Scan# 344
 Delta R.T. 0.05 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

Tgt Ion: 84 Resp: 54299
 Ion Ratio Lower Upper
 84 100
 49 135.3 112.3 168.5
 51 37.4 32.5 48.7
 86 47.3 50.3 75.5#





#21

Allvl Chloride

Concen: 1.65 ppbv

RT: 5.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :
MSVOA_L
ClientSampled :

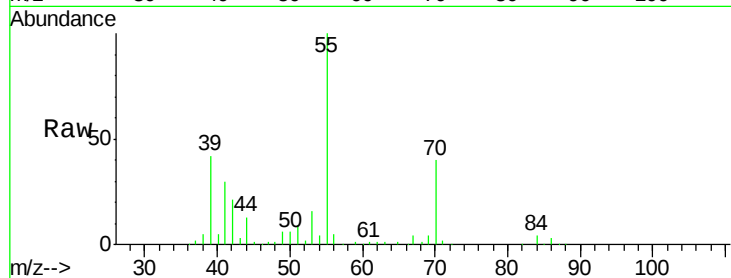
Tot Ion: 41 Resp: 135689

Ion Ratio Lower Upper

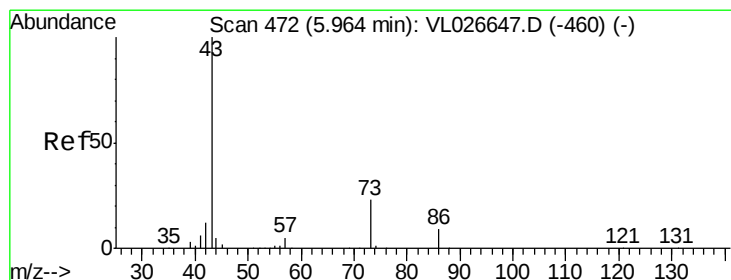
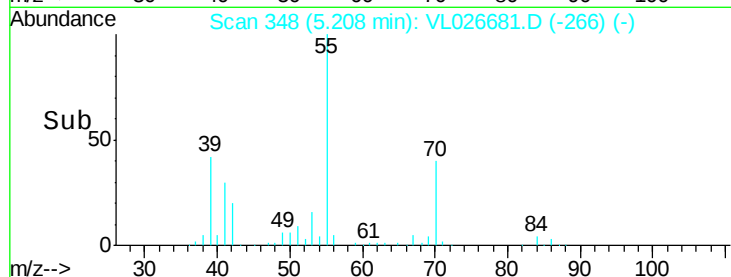
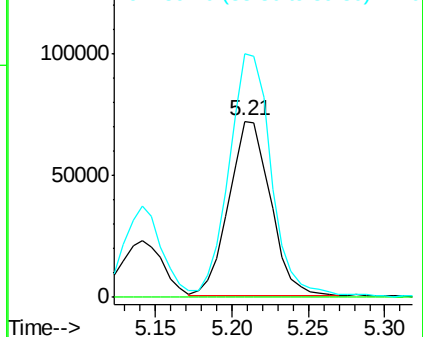
41 100

76 0.0 27.5 41.3#

39 142.2 83.0 124.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 1.26 ppbv

RT: 5.99 min Scan# 477

Delta R.T. 0.03 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Tgt Ion: 43 Resp: 258839

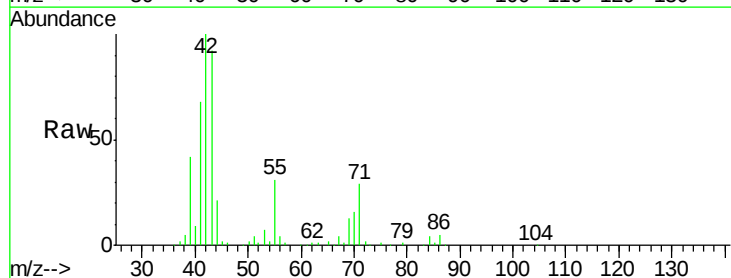
Ion Ratio Lower Upper

43 100

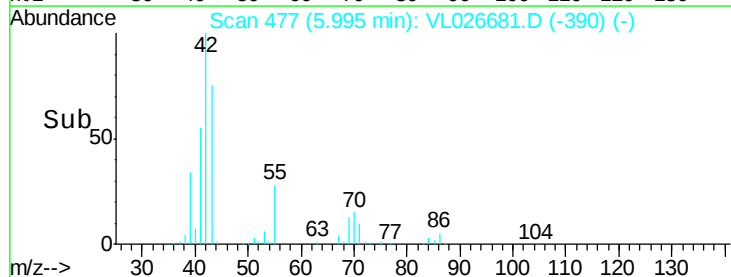
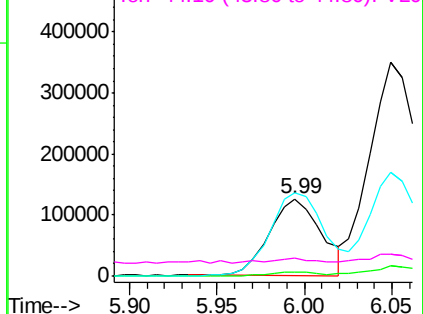
86 5.7 7.4 11.0#

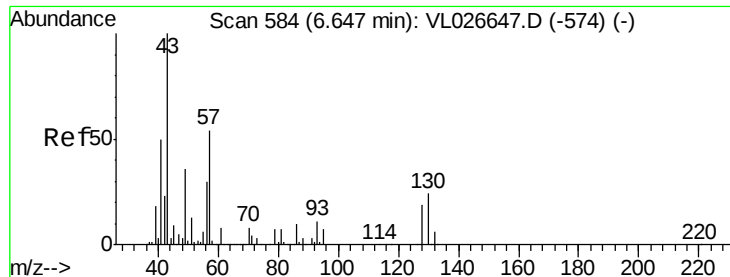
42 109.0 9.2 13.8#

44 5.2 3.8 5.8



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

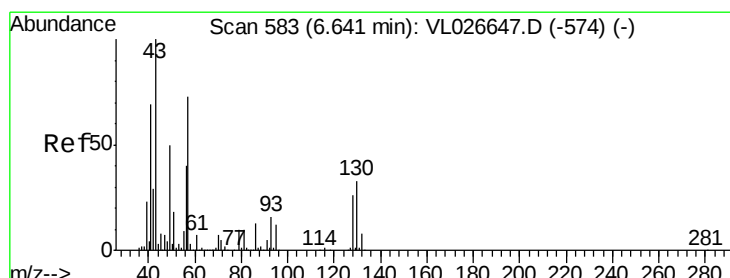
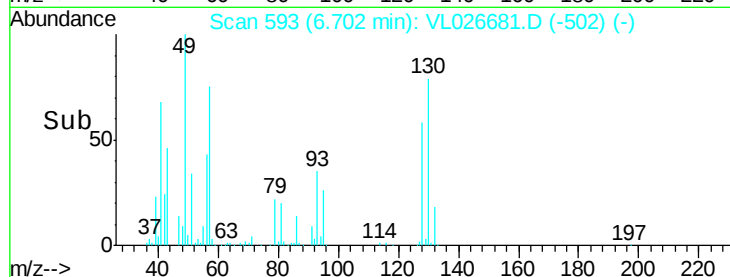
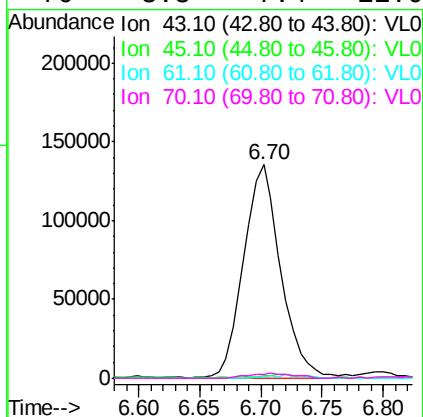
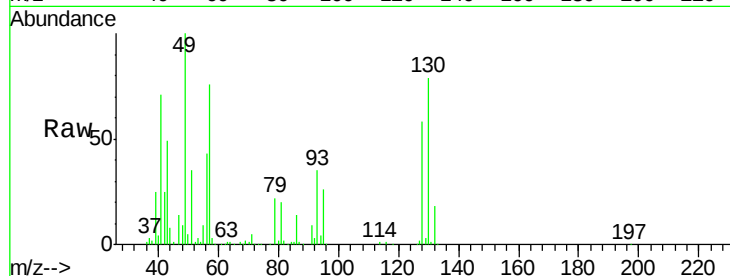




#25
Ethyl Acetate
Concen: 1.39 ppbv
RT: 6.70 min Scan# 593
Delta R.T. 0.05 min
Lab File: VL026681.D
Acq: 12 Jan 2016 19:17

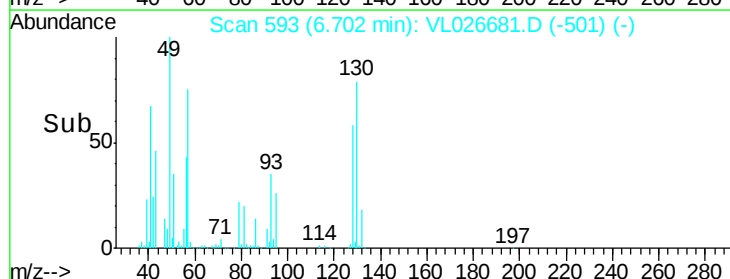
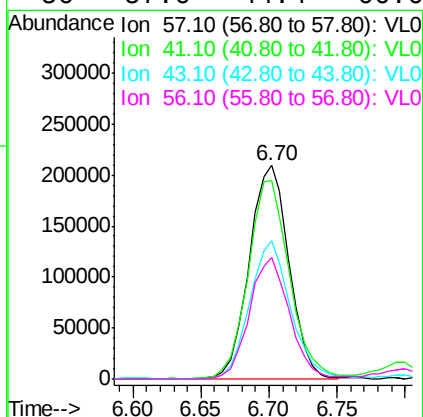
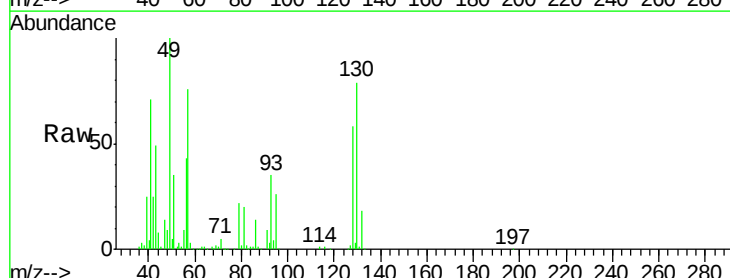
Instrument :
MSVOA_L
ClientSampleId :

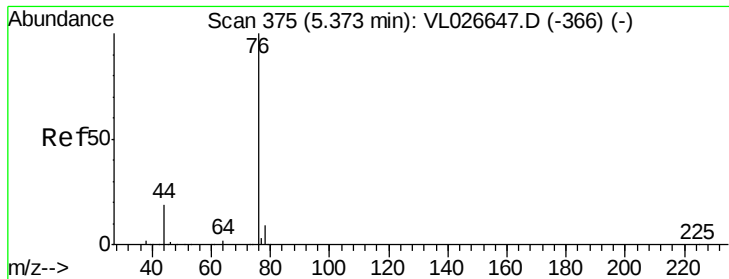
Tot Ion:	43	Resp:	287206
Ion	Ratio	Lower	Upper
43	100		
45	2.9	7.5	11.3#
61	1.5	7.3	10.9#
70	3.3	7.4	11.0#



#26
Hexane
Concen: 4.01 ppbv
RT: 6.70 min Scan# 593
Delta R.T. 0.06 min
Lab File: VL026681.D
Acq: 12 Jan 2016 19:17

Tgt Ion:	57	Resp:	428895
Ion	Ratio	Lower	Upper
57	100		
41	97.6	74.8	112.2
43	66.4	161.5	242.3#
56	57.6	44.4	66.6





#27

Carbon Disulfide

Concen: 0.12 ppbv

RT: 5.43 min Scan# 385

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

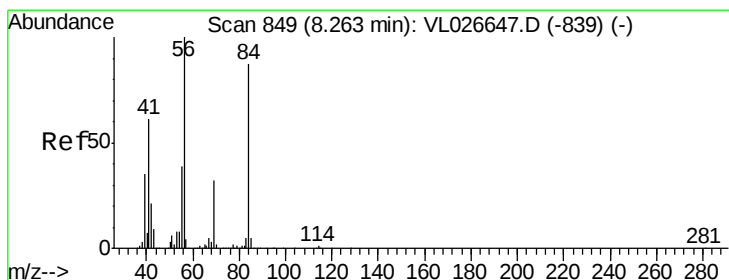
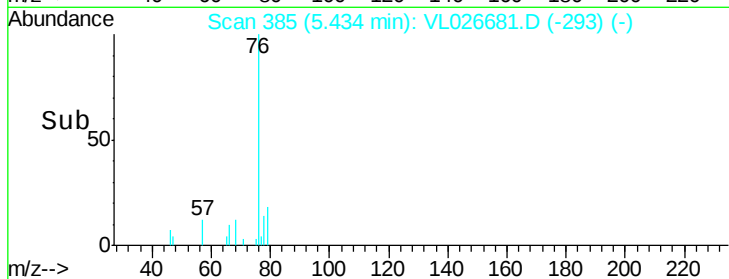
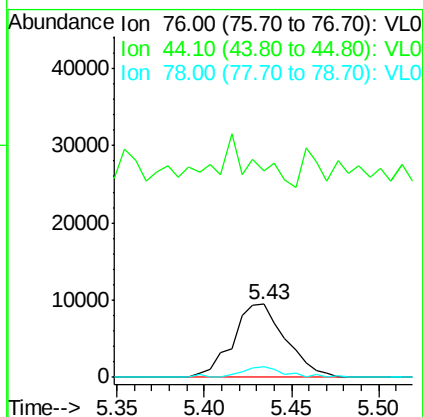
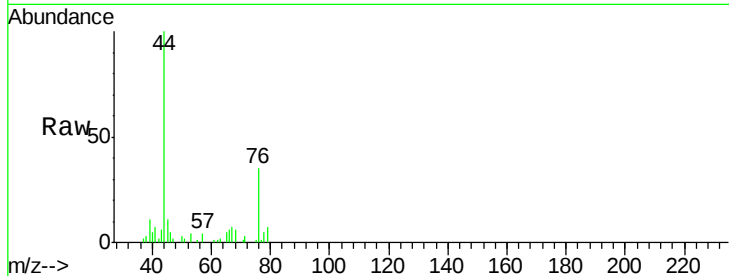
Tot Ion: 76 Resp: 19882

Ion Ratio Lower Upper

76 100

44 24.1 15.9 23.9#

78 12.5 7.6 11.4#



#30

Cyclohexane

Concen: 1.26 ppbv

RT: 8.32 min Scan# 859

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

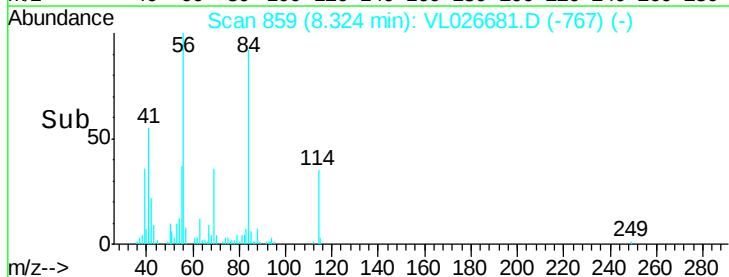
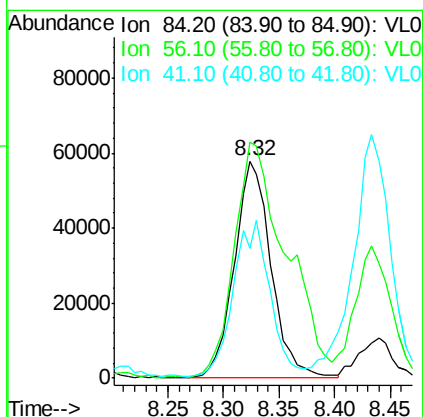
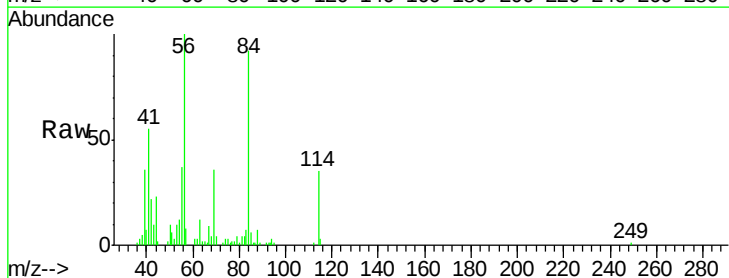
Tgt Ion: 84 Resp: 132821

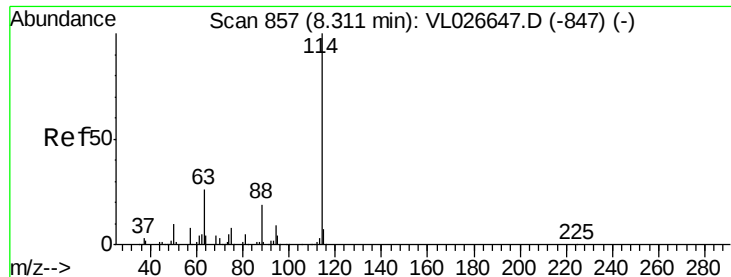
Ion Ratio Lower Upper

84 100

56 154.2 95.9 143.9#

41 71.1 54.8 82.2





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.37 min Scan# 866

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

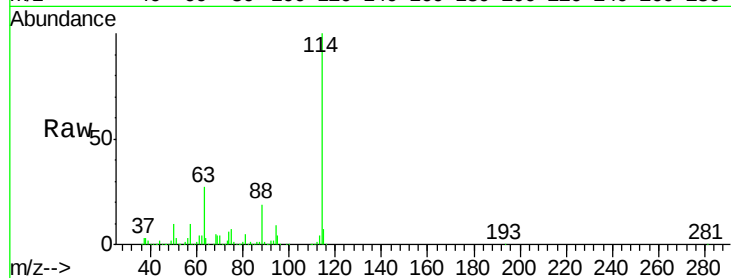
Tot Ion:114 Resp: 2572091

Ion Ratio Lower Upper

114 100

63 26.4 21.7 32.5

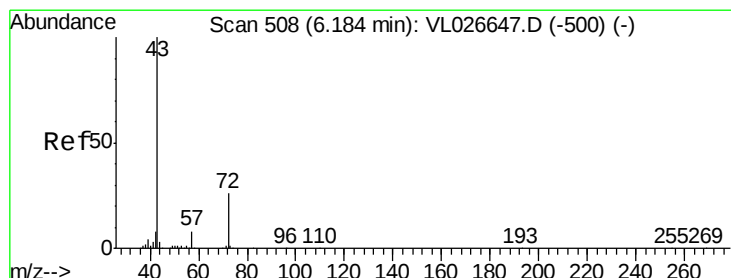
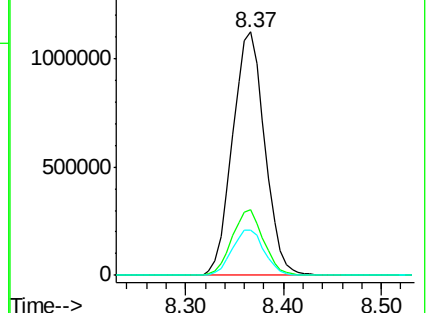
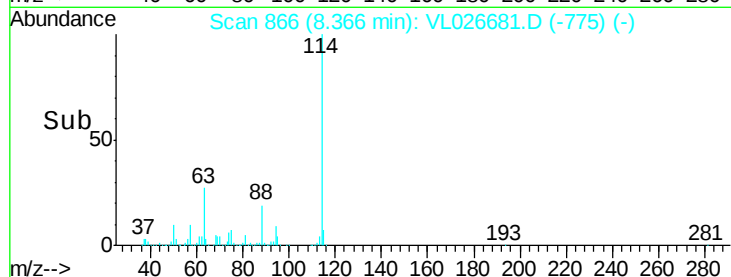
88 18.7 15.2 22.8



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



#34

2-Butanone

Concen: 0.72 ppbv

RT: 6.24 min Scan# 518

Delta R.T. 0.06 min

Lab File: VL026681.D

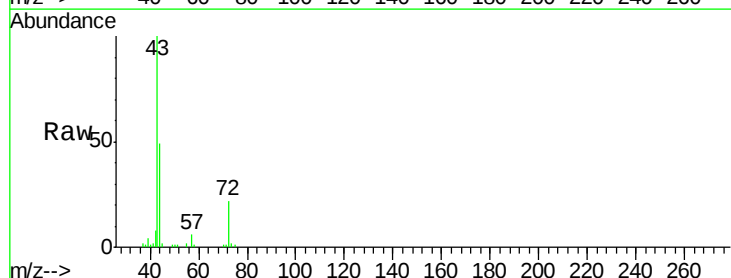
Acq: 12 Jan 2016 19:17

Tgt Ion: 43 Resp: 98981

Ion Ratio Lower Upper

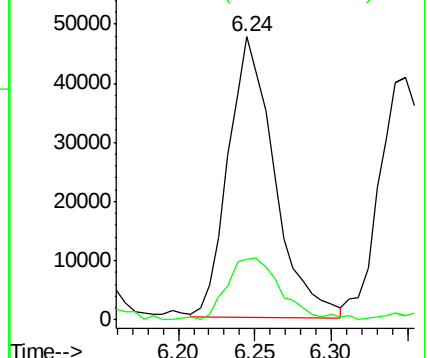
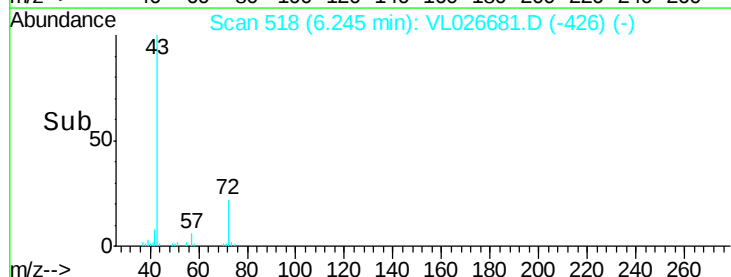
43 100

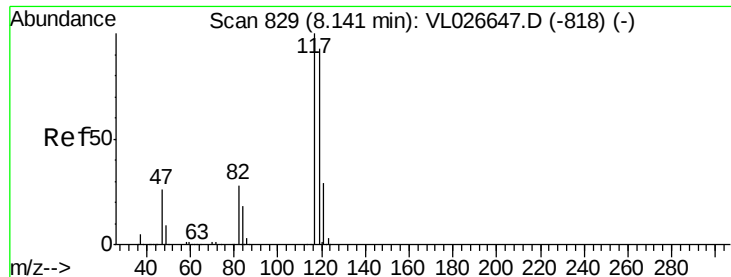
72 26.2 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.21 min Scan# 840

Delta R.T. 0.07 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

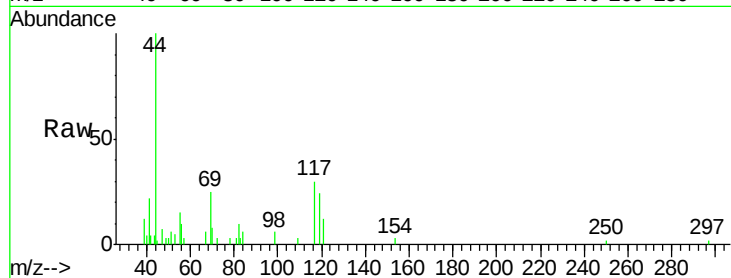
Tot Ion:117 Resp: 9607

Ion Ratio Lower Upper

117 100

119 82.2 74.7 112.1

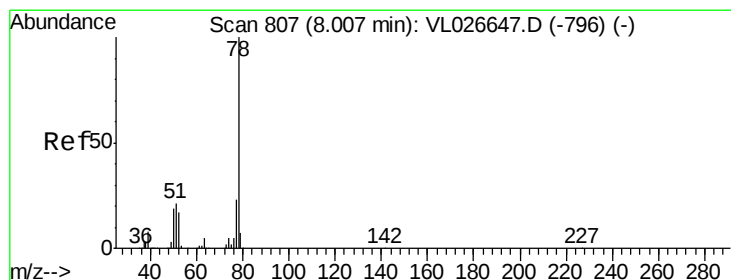
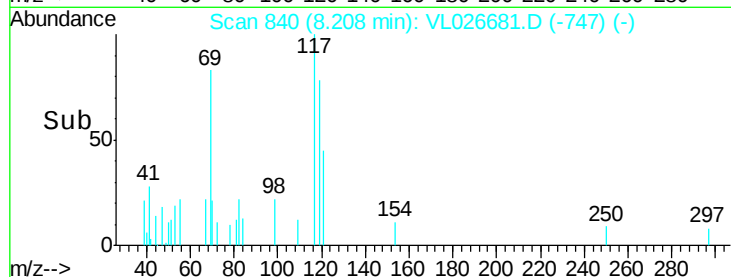
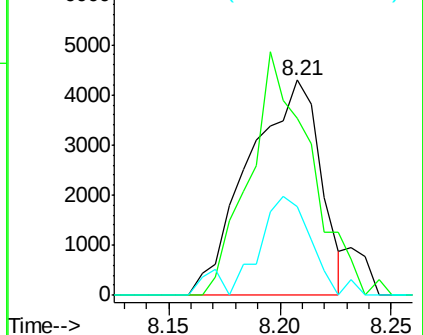
121 41.2 23.1 34.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.68 ppbv

RT: 8.06 min Scan# 816

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

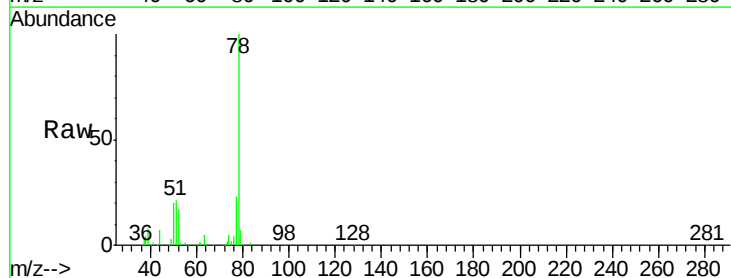
Tgt Ion: 78 Resp: 443994

Ion Ratio Lower Upper

78 100

77 23.2 18.5 27.7

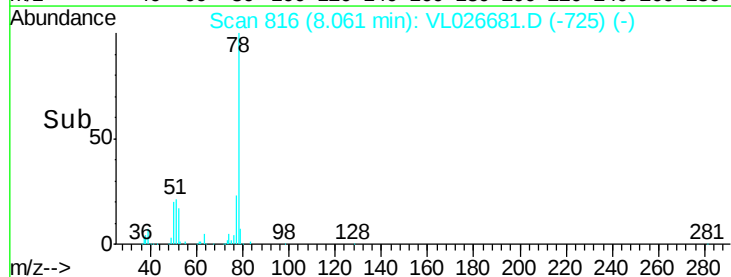
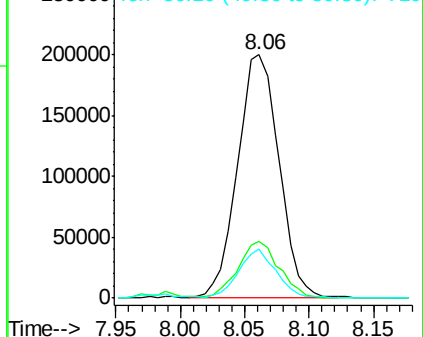
50 20.3 15.4 23.2

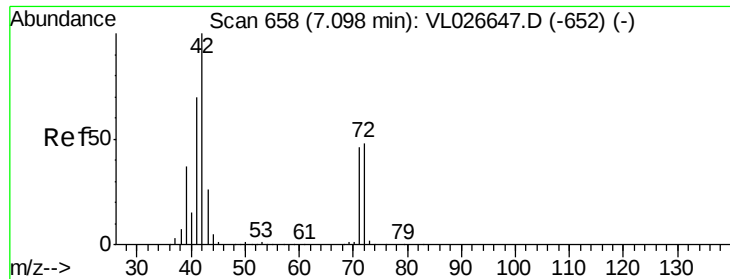


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#41

Tetrahydrofuran

Concen: 0.15 ppbv

RT: 7.17 min Scan# 670

Delta R.T. 0.07 min

Lab File: VL026681.D

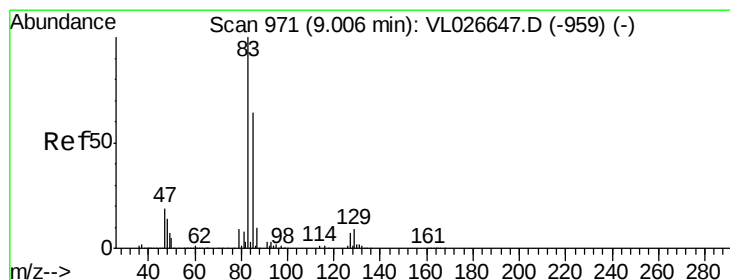
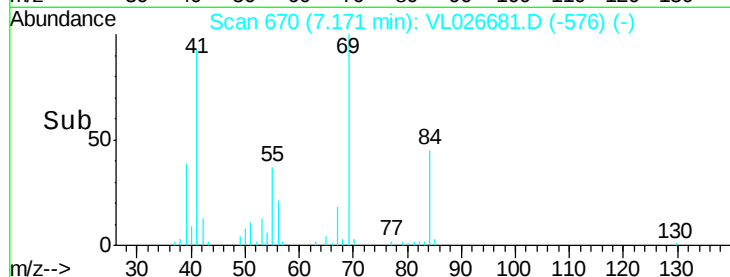
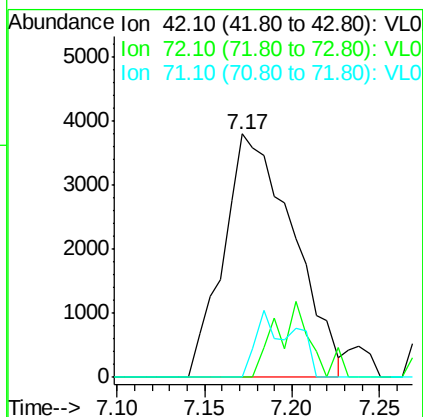
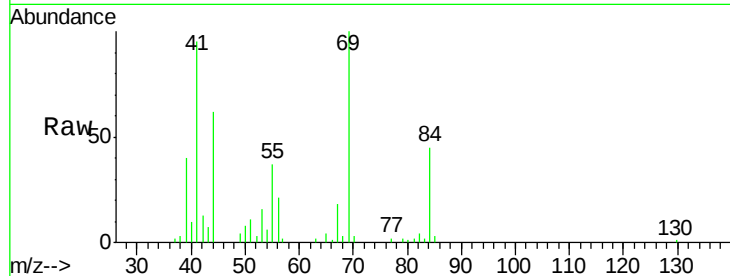
Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	42	Resp:	10500
Ion	Ratio	Lower	Upper
42	100		
72	15.9	40.6	60.8#
71	14.6	38.4	57.6#



#42

Bromodichloromethane

Concen: 0.09 ppbv

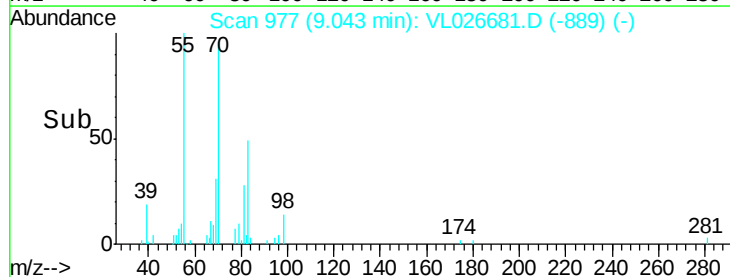
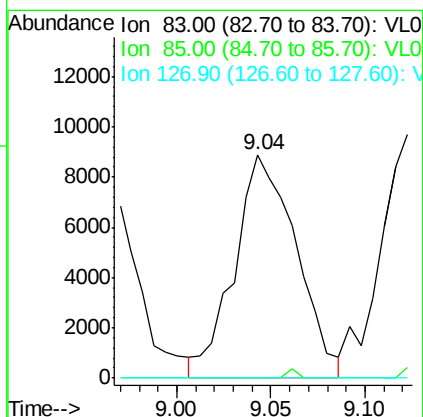
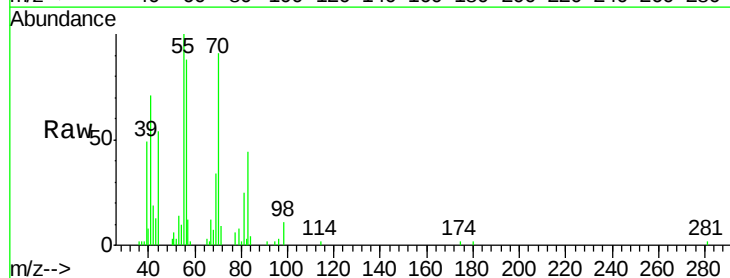
RT: 9.04 min Scan# 977

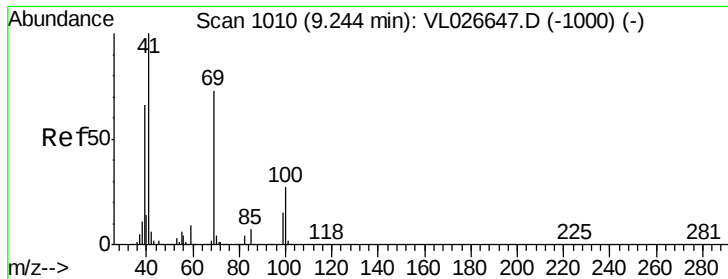
Delta R.T. 0.04 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Tgt Ion:	83	Resp:	20194
Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.9	76.3#
127	0.0	5.5	8.3#

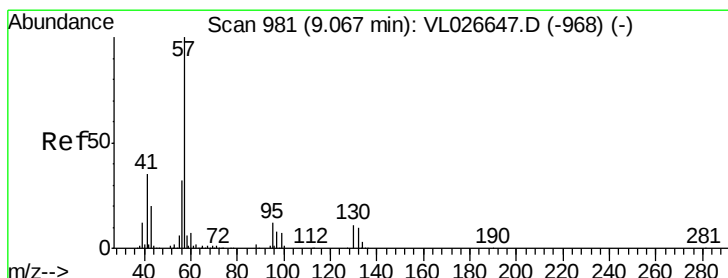
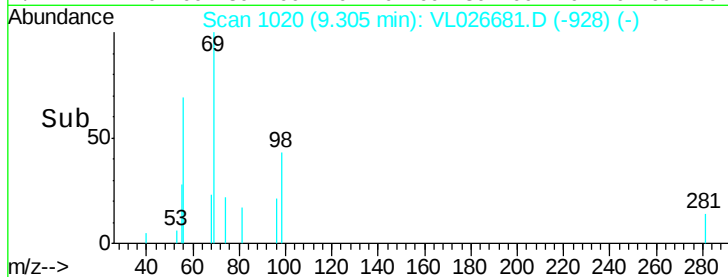
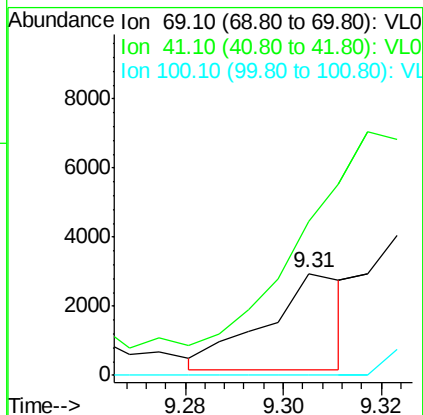
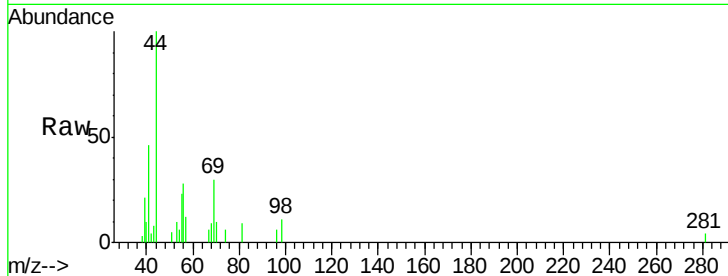




#43
Methyl Methacrylate
Concen: 0.03 ppbv
RT: 9.31 min Scan# 1020
Delta R.T. 0.06 min
Lab File: VL026681.D
Acq: 12 Jan 2016 19:17

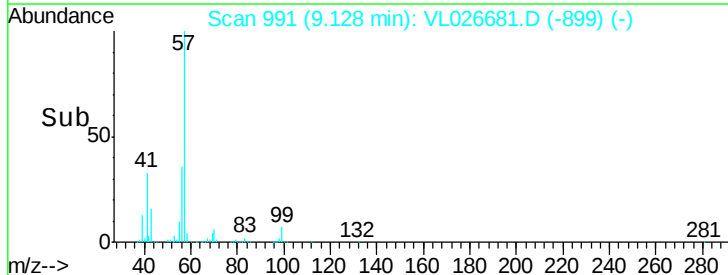
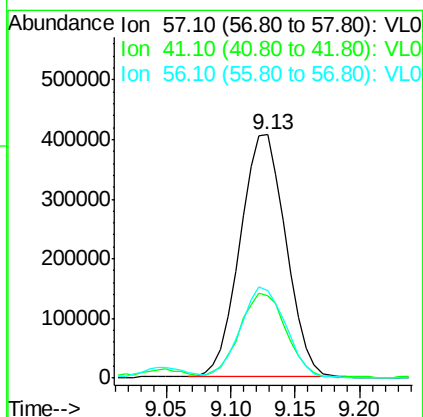
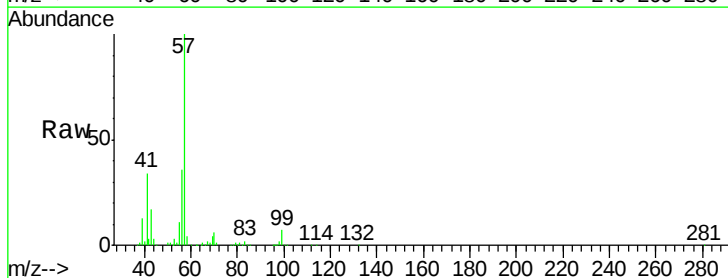
Instrument :
MSVOA_L
ClientSampled :

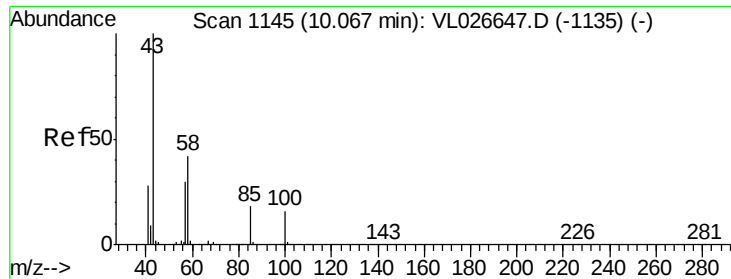
Tot Ion: 69 Resp: 3154
Ion Ratio Lower Upper
69 100
41 0.0 106.1 159.1#
100 0.0 29.0 43.4#



#44
2,2,4-Trimethylpentane
Concen: 2.34 ppbv
RT: 9.13 min Scan# 991
Delta R.T. 0.06 min
Lab File: VL026681.D
Acq: 12 Jan 2016 19:17

Tgt Ion: 57 Resp: 1001979
Ion Ratio Lower Upper
57 100
41 39.0 26.9 40.3
56 41.8 25.4 38.0#

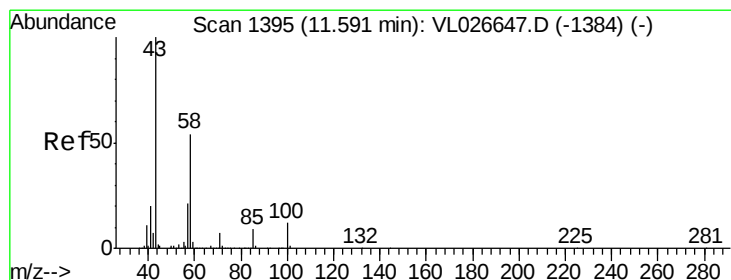
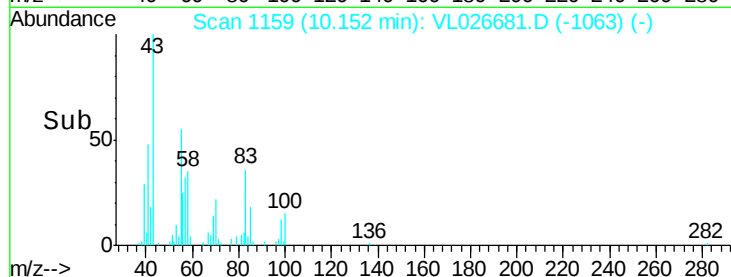
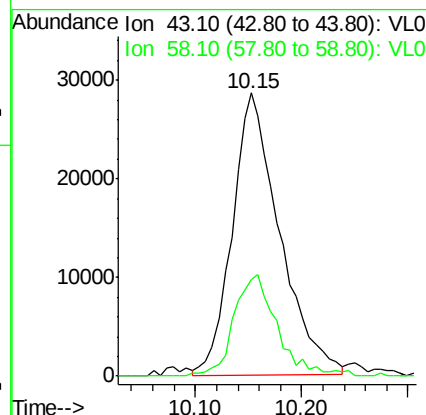
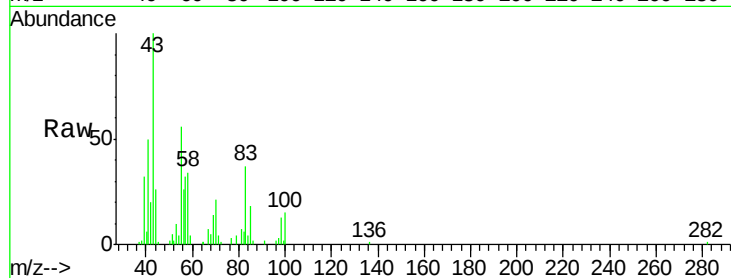




#50
 4-Methyl-2-Pentanone
 Concen: 0.46 ppbv
 RT: 10.15 min Scan# 1159
 Delta R.T. 0.09 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

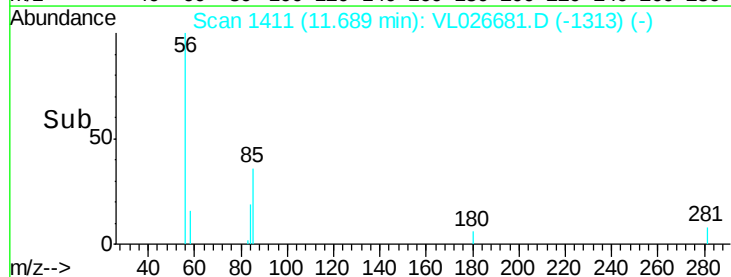
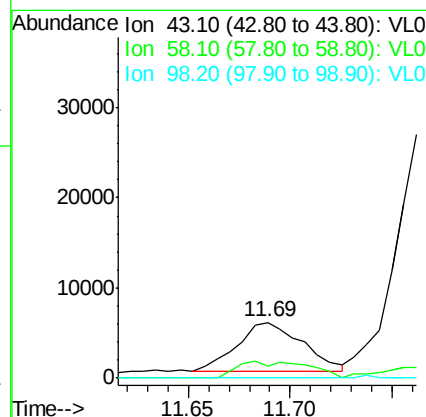
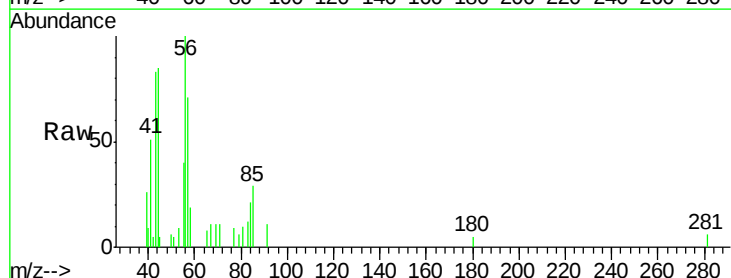
Instrument :
 MSVOA_L
 ClientSampled :

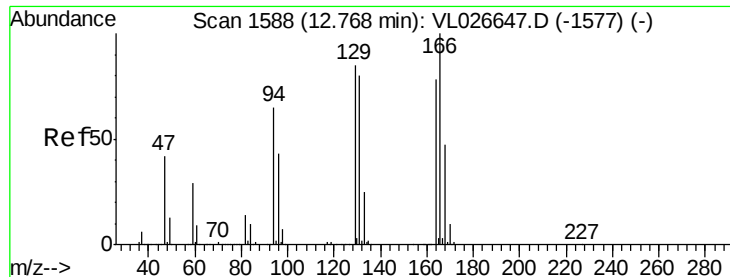
Tot Ion: 43 Resp: 88796
 Ion Ratio Lower Upper
 43 100
 58 33.0 32.4 48.6



#51
 2-Hexanone
 Concen: 0.07 ppbv
 RT: 11.69 min Scan# 1411
 Delta R.T. 0.10 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

Tgt Ion: 43 Resp: 12347
 Ion Ratio Lower Upper
 43 100
 58 38.3 44.9 67.3#
 98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.20 ppbv

RT: 12.83 min Scan# 1598

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 26911

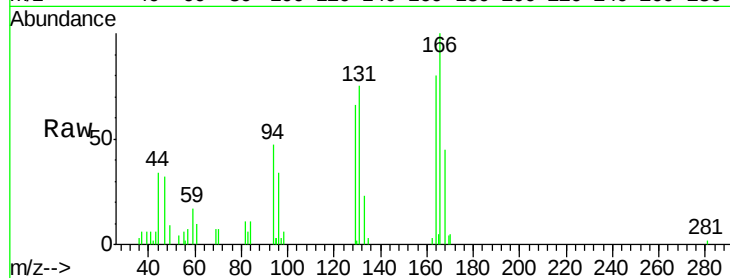
Ion Ratio Lower Upper

164 100

166 120.5 102.5 153.7

129 78.9 87.0 130.6#

131 94.2 82.5 123.7

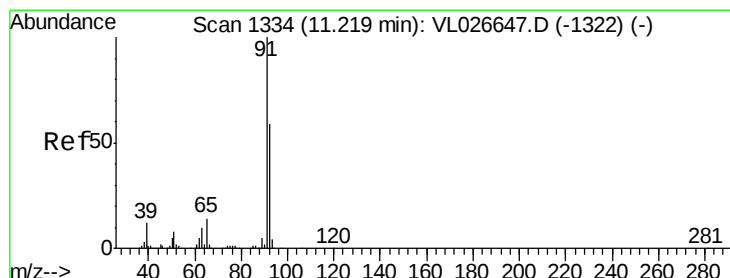
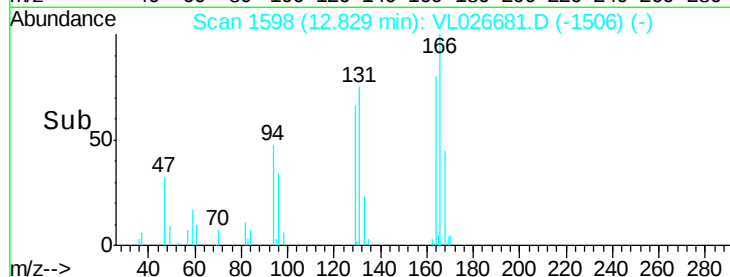
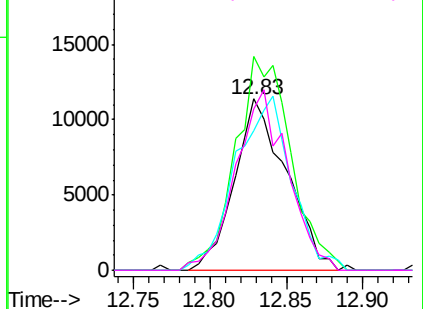


Abundance Ion 163.90 (163.60 to 164.60): V

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: 8.89 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VL026681.D

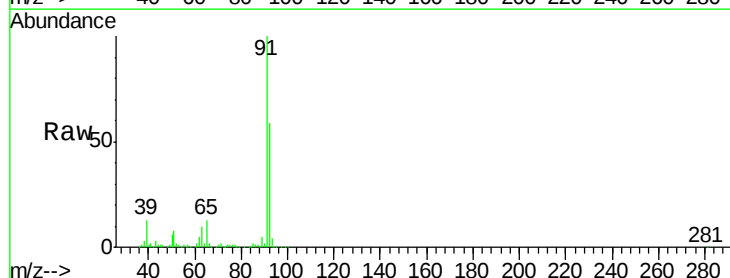
Acq: 12 Jan 2016 19:17

Tgt Ion: 91 Resp: 3317452

Ion Ratio Lower Upper

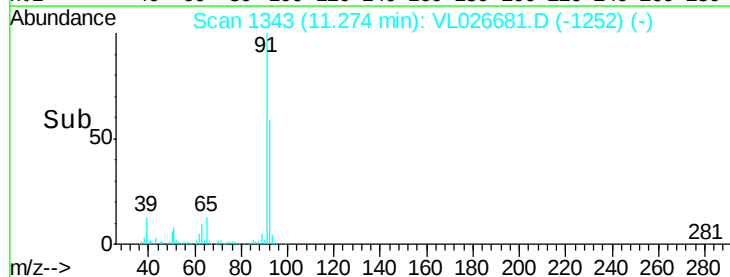
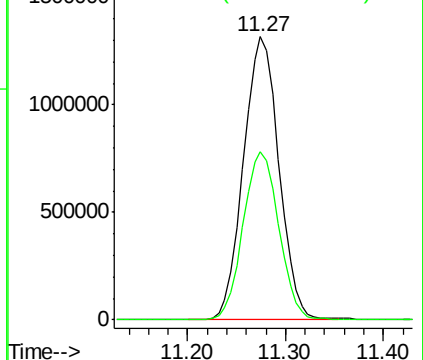
91 100

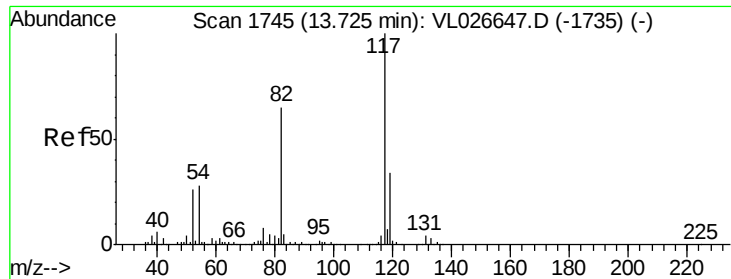
92 60.1 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

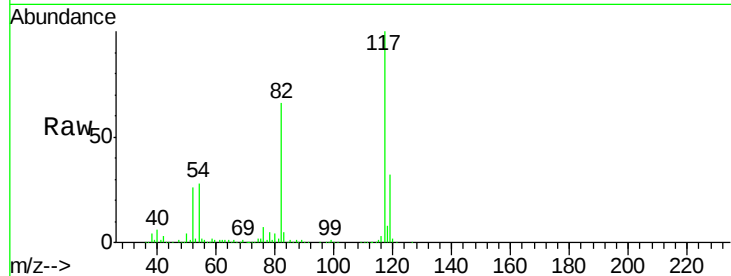
Tot Ion:117 Resp: 3220013

Ion Ratio Lower Upper

117 100

82 68.2 49.7 74.5

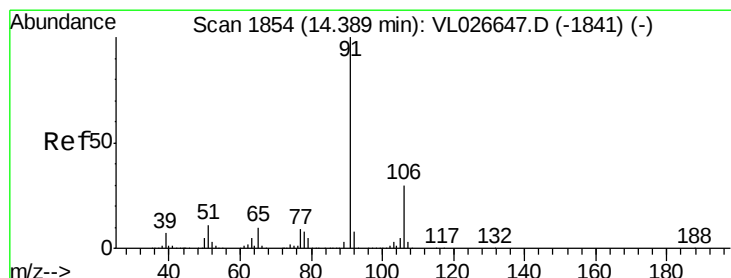
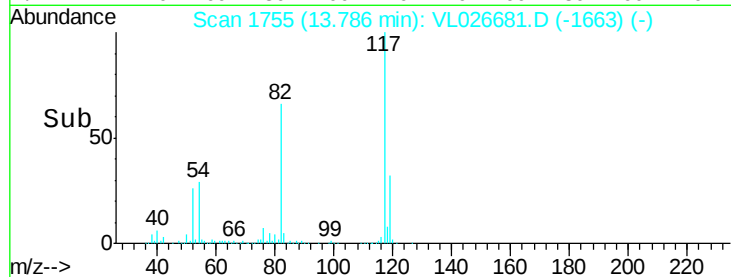
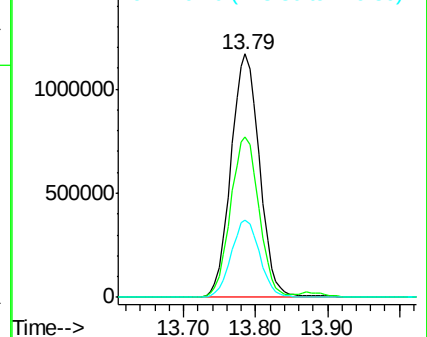
119 32.0 43.8 65.8#



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



#58

Ethyl Benzene

Concen: 1.45 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. 0.07 min

Lab File: VL026681.D

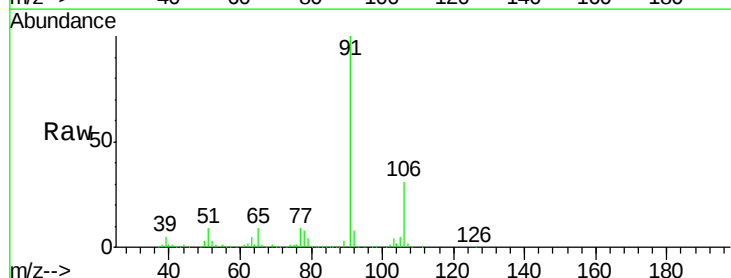
Acq: 12 Jan 2016 19:17

Tgt Ion: 91 Resp: 835729

Ion Ratio Lower Upper

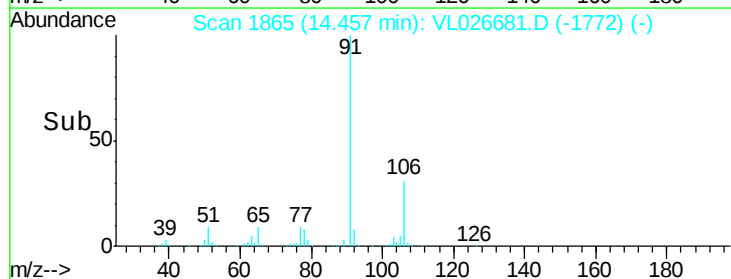
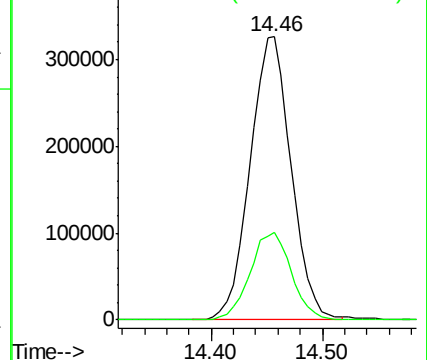
91 100

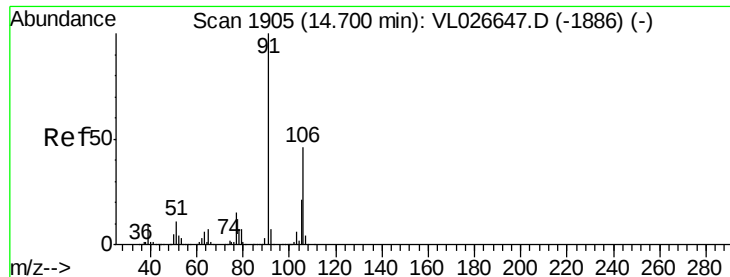
106 30.9 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

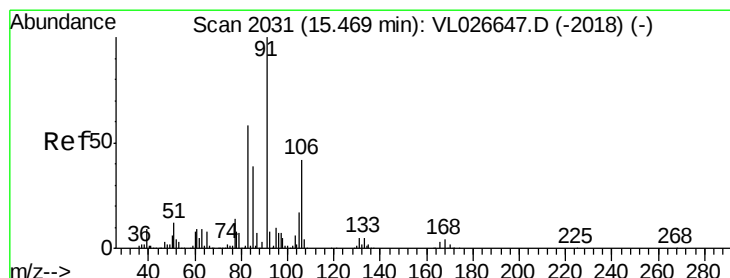
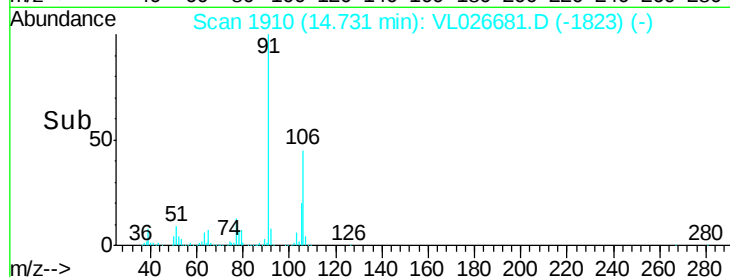
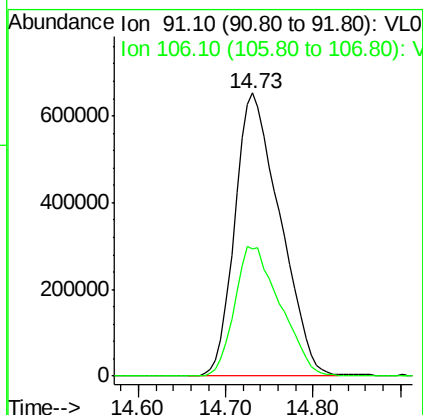
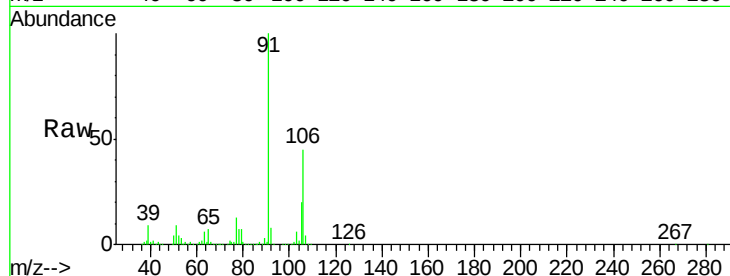




#59
m/p-Xylene
Concen: 4.94 ppbv
RT: 14.73 min Scan# 1910
Delta R.T. 0.03 min
Lab File: VL026681.D
Acq: 12 Jan 2016 19:17

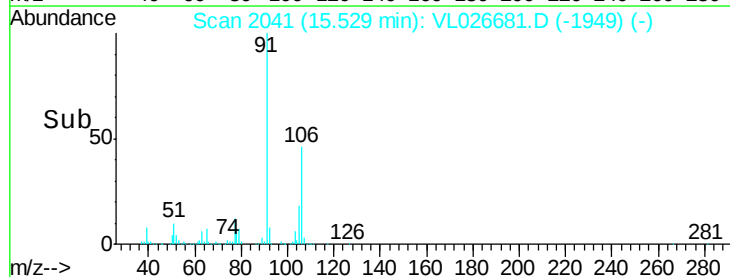
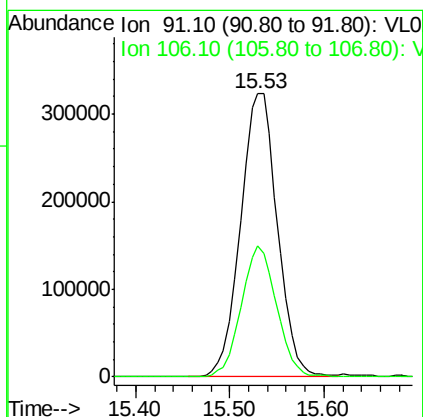
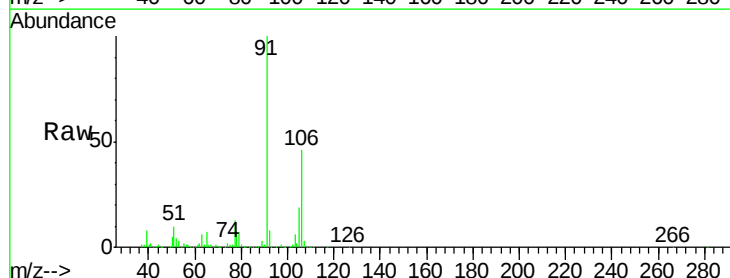
Instrument :
MSVOA_L
ClientSampleId :

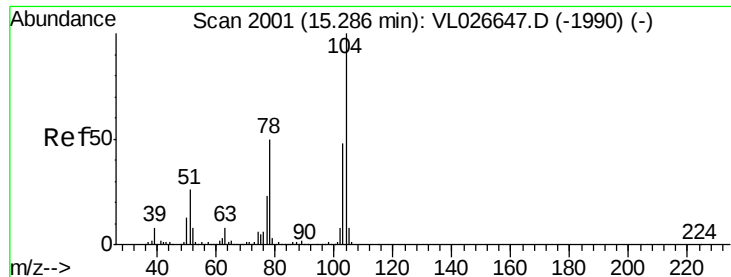
Tot Ion: 91 Resp: 2340294
Ion Ratio Lower Upper
91 100
106 46.8 36.6 55.0



#60
o-Xylene
Concen: 1.72 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.06 min
Lab File: VL026681.D
Acq: 12 Jan 2016 19:17

Tgt Ion: 91 Resp: 881671
Ion Ratio Lower Upper
91 100
106 44.6 21.5 64.5





#61

Stvrene

Concen: 0.28 ppbv

RT: 15.35 min Scan# 2012

Delta R.T. 0.07 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

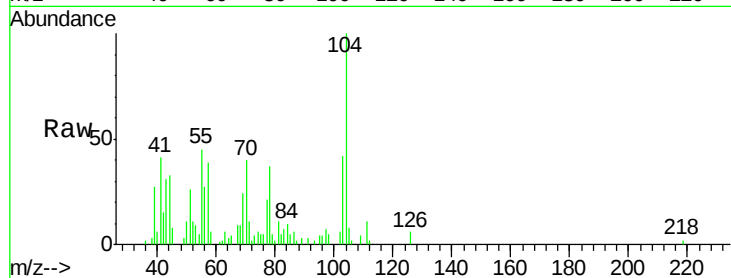
Tot Ion:104 Resp: 56016

Ion Ratio Lower Upper

104 100

78 52.7 39.6 59.4

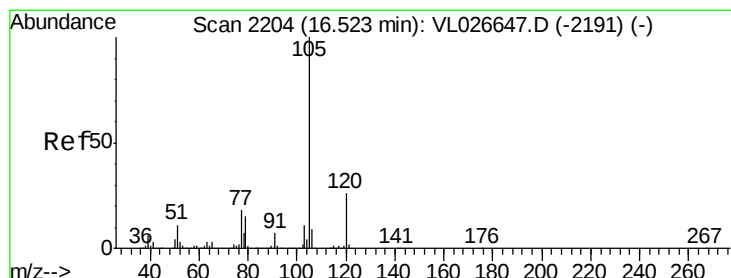
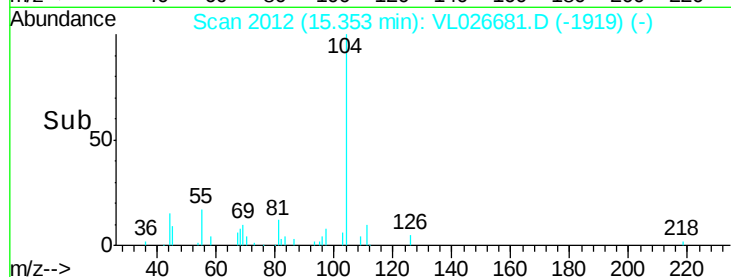
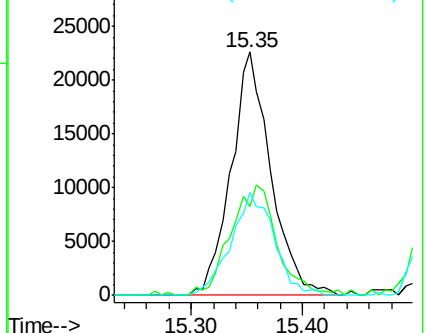
103 45.9 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.55 ppbv

RT: 16.58 min Scan# 2214

Delta R.T. 0.06 min

Lab File: VL026681.D

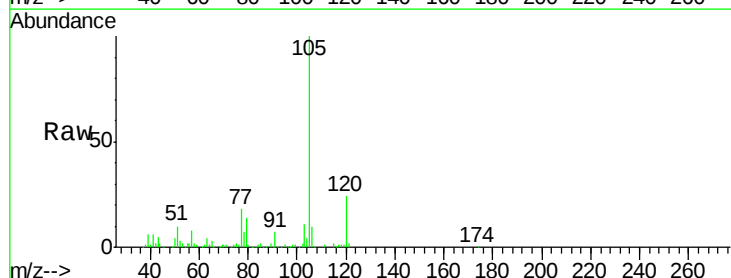
Acq: 12 Jan 2016 19:17

Tgt Ion:105 Resp: 376043

Ion Ratio Lower Upper

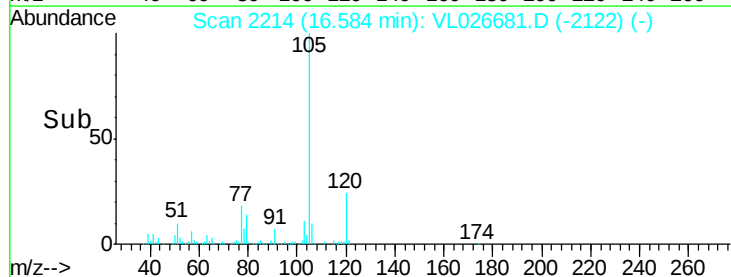
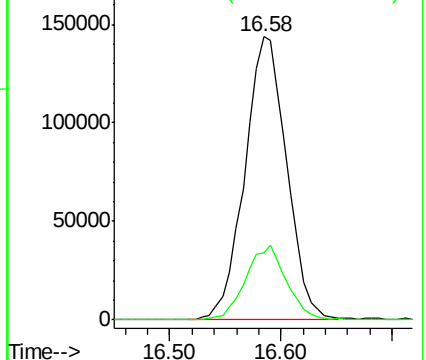
105 100

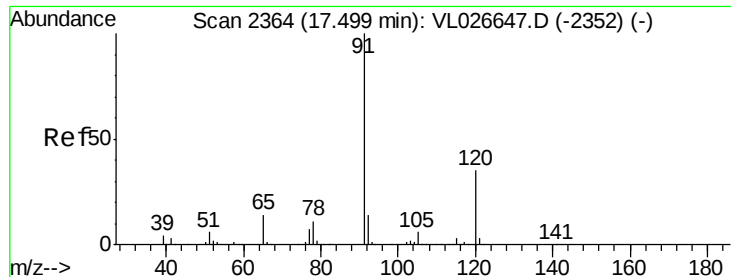
120 25.6 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.35 ppbv

RT: 17.57 min Scan# 2375

Delta R.T. 0.07 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

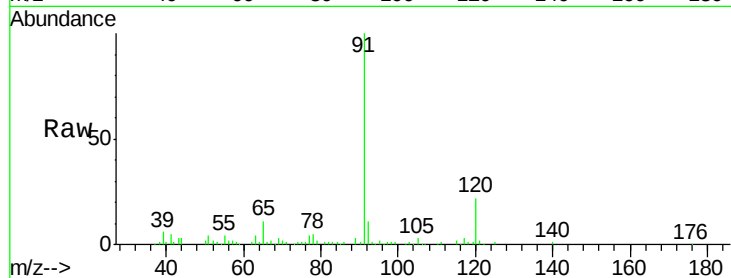
ClientSampleId :

Tot Ion:120 Resp: 63673

Ion Ratio Lower Upper

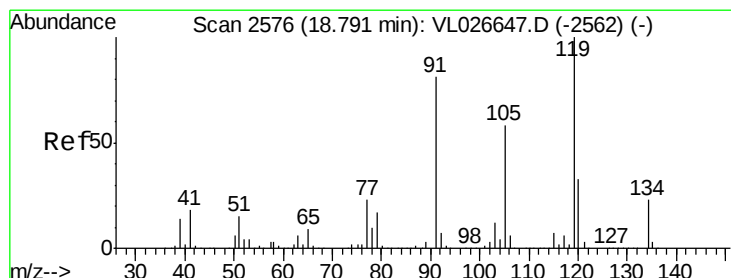
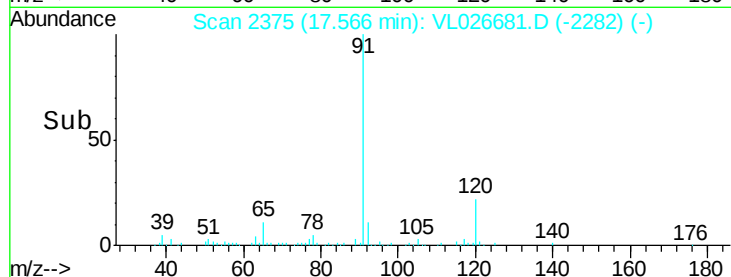
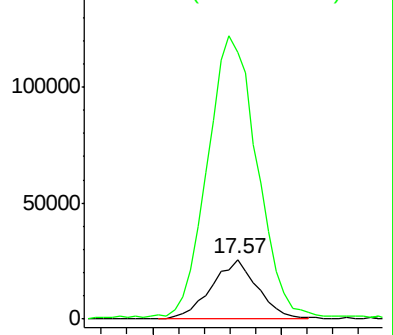
120 100

91 520.5 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.21 ppbv

RT: 18.87 min Scan# 2589

Delta R.T. 0.08 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

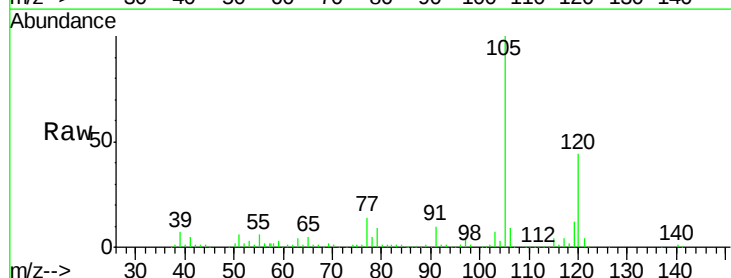
Tgt Ion:119 Resp: 130867

Ion Ratio Lower Upper

119 100

91 101.1 64.8 97.2#

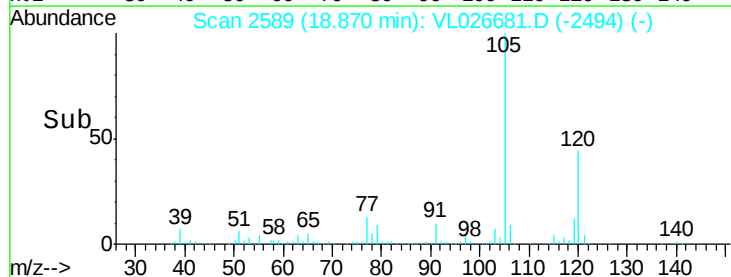
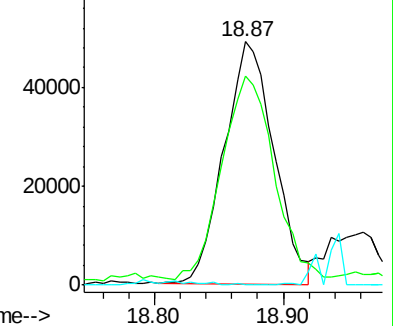
134 1.9 17.4 26.0#

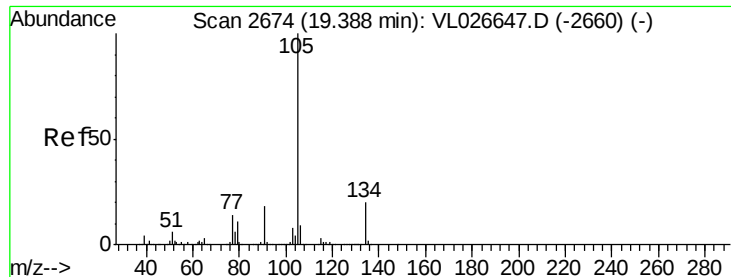


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.05 ppbv

RT: 19.46 min Scan# 2685

Delta R.T. 0.07 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

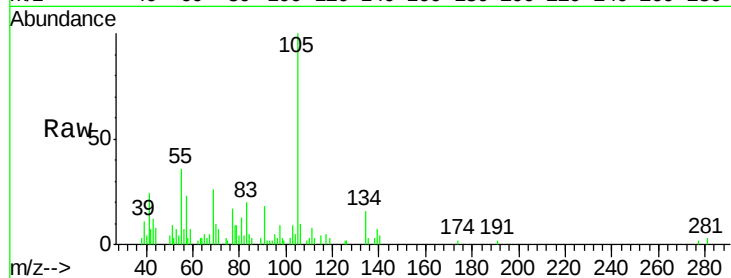
ClientSampleId :

Tot Ion: 105 Resp: 47378

Ion Ratio Lower Upper

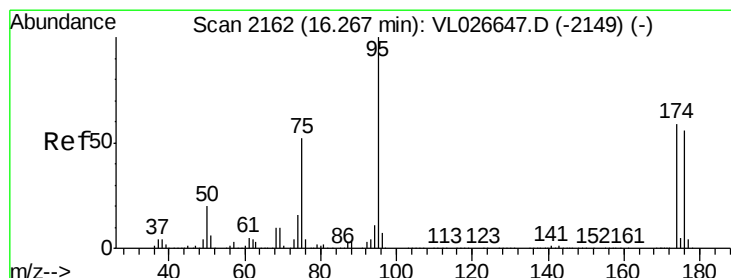
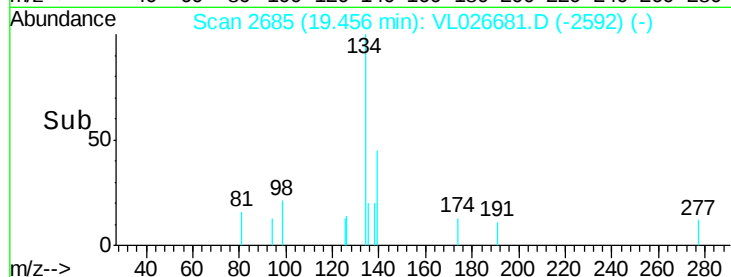
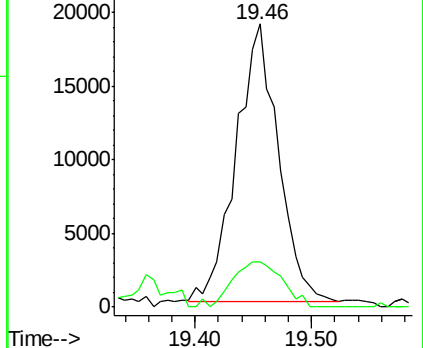
105 100

134 19.0 14.9 22.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.36 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

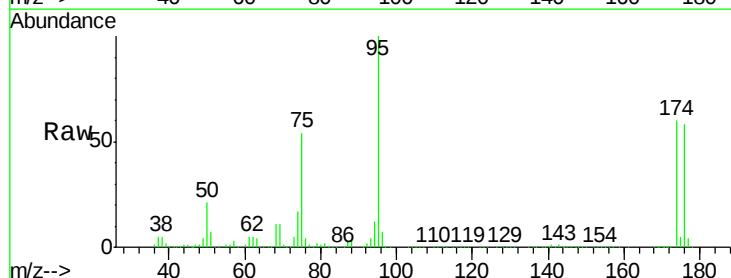
Tgt Ion: 95 Resp: 2659445

Ion Ratio Lower Upper

95 100

174 59.7 47.8 71.8

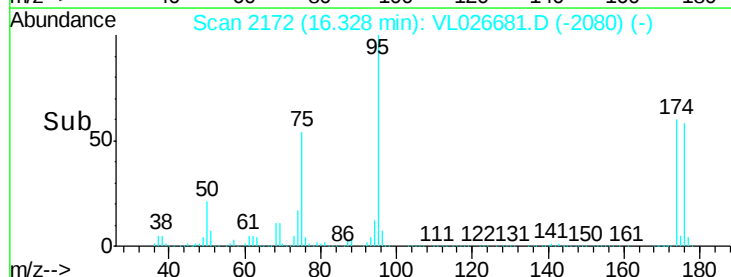
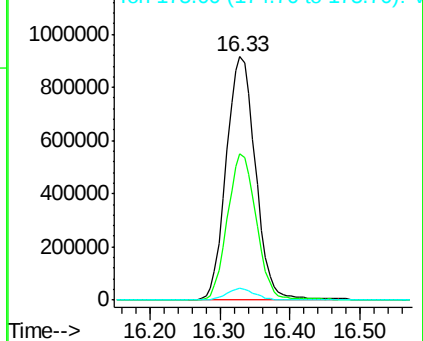
175 4.6 3.6 5.4

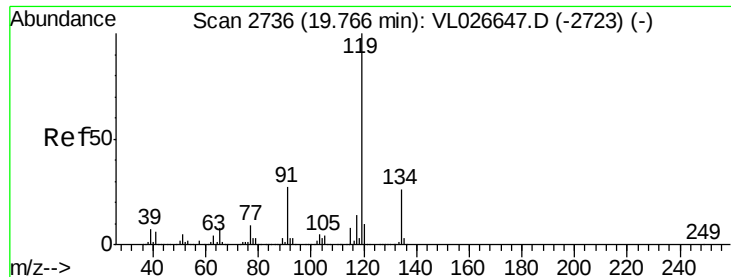


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

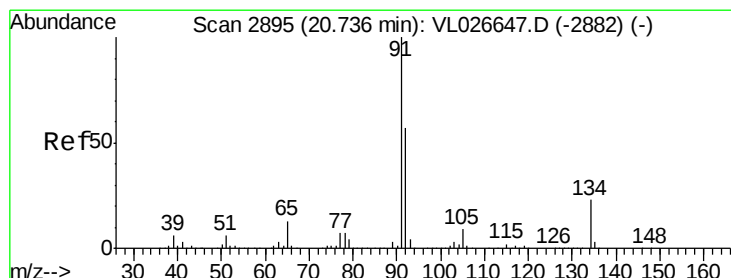
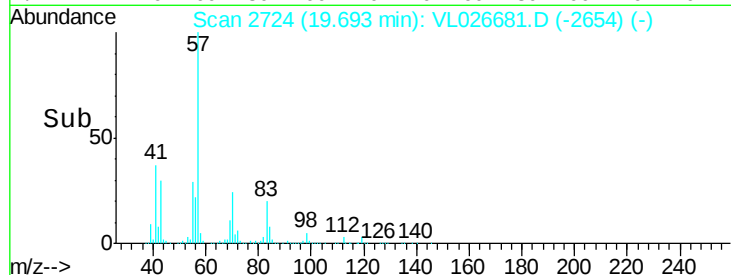
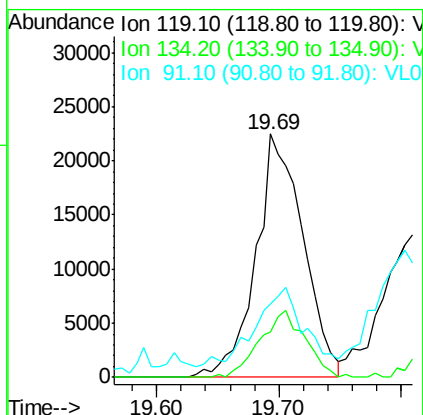
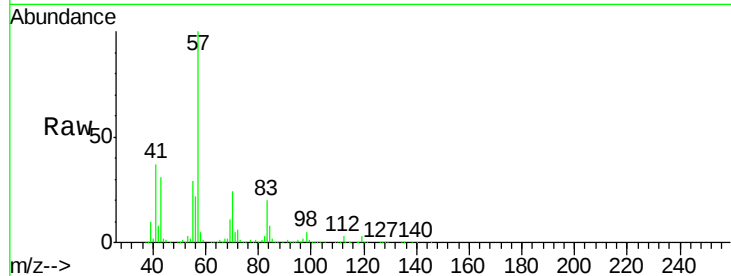




#69
 p-Isopropyltoluene
 Concen: 0.09 ppbv
 RT: 19.69 min Scan# 2724
 Delta R.T. -0.07 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

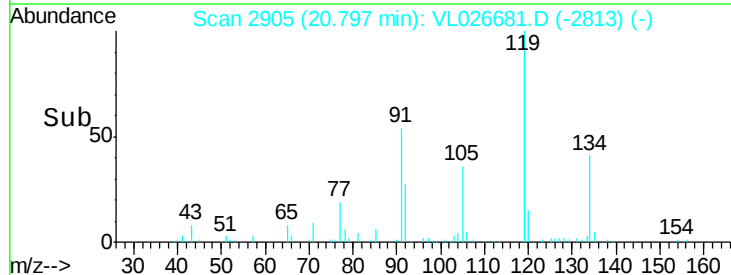
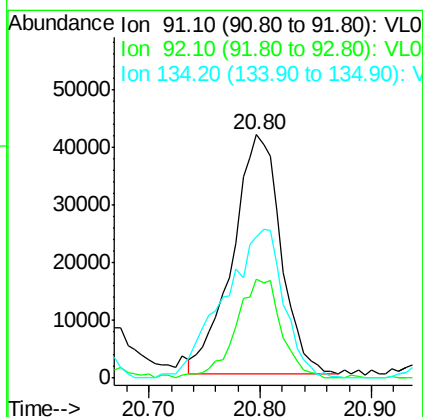
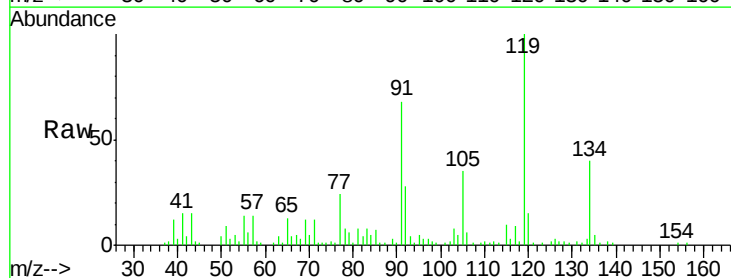
Instrument :
 MSVOA_L
 ClientSampleID :

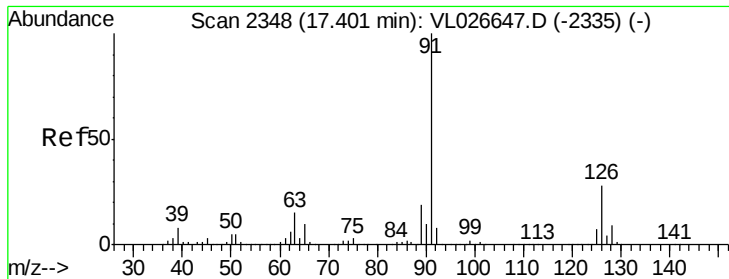
Tot Ion	119	Resp	60517
Ion Ratio	Lower	Upper	
119	100		
134	26.1	20.6	31.0
91	30.9	21.7	32.5



#70
 n-Butylbenzene
 Concen: 0.17 ppbv
 RT: 20.80 min Scan# 2905
 Delta R.T. 0.06 min
 Lab File: VL026681.D
 Acq: 12 Jan 2016 19:17

Tgt Ion	91	Resp	124475
Ion Ratio	Lower	Upper	
91	100		
92	38.7	45.0	67.4#
134	77.5	18.2	27.2#





#71

2-Chlorotoluene

Concen: 0.60 ppbv

RT: 17.56 min Scan# 2374

Delta R.T. 0.16 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

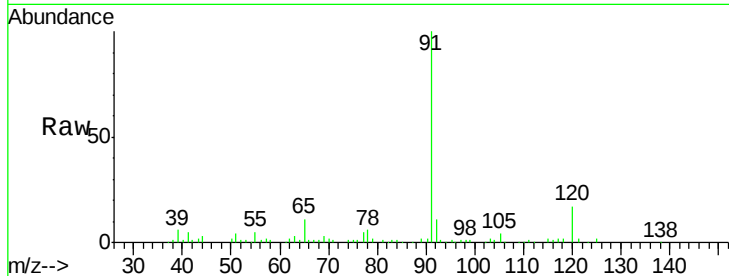
ClientSampled :

Tot Ion: 91 Resp: 319433

Ion Ratio Lower Upper

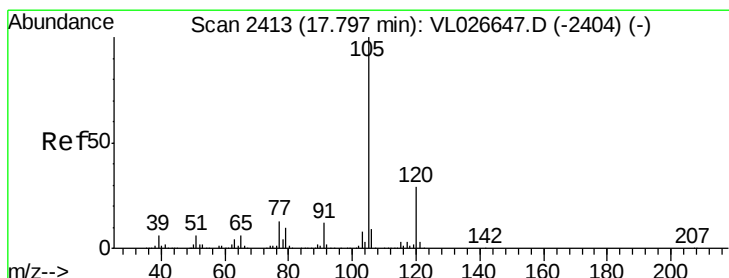
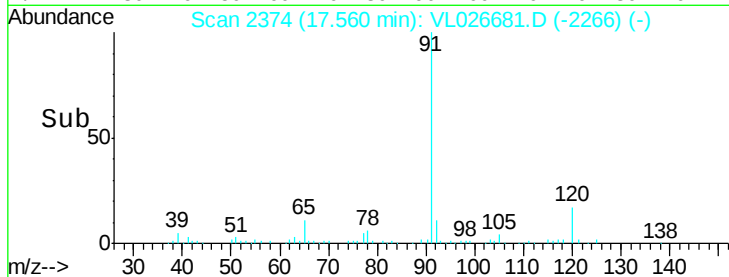
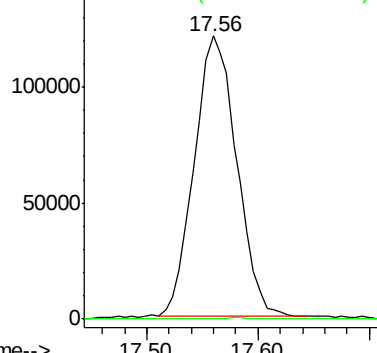
91 100

126 0.0 11.4 45.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): VL0



#72

4-Ethyltoluene

Concen: 0.68 ppbv

RT: 17.86 min Scan# 2424

Delta R.T. 0.07 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Tgt Ion: 105 Resp: 390934

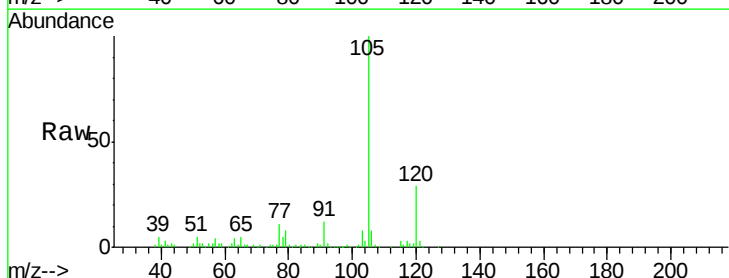
Ion Ratio Lower Upper

105 100

120 27.3 23.7 35.5

91 10.8 9.7 14.5

77 11.3 10.3 15.5

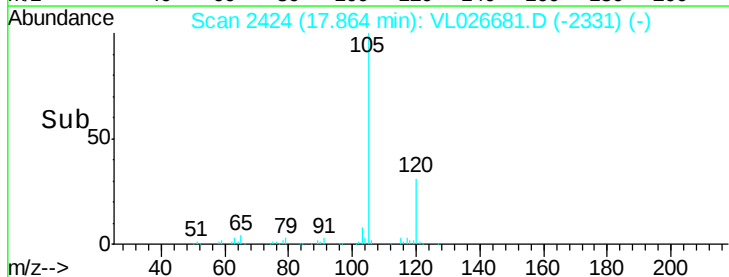
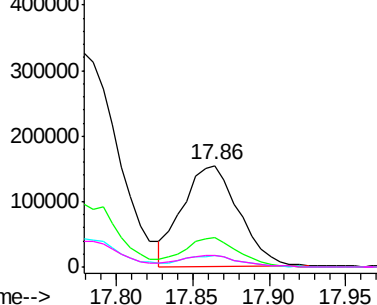


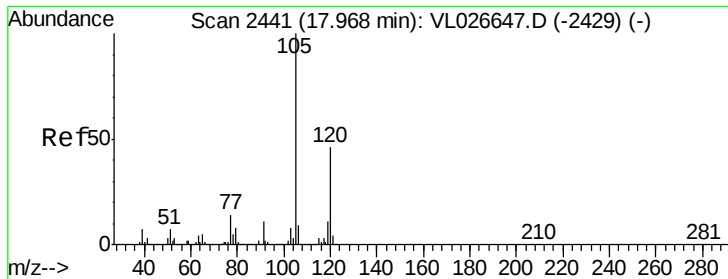
Abundance Ion 105.10 (104.80 to 105.80): VL0

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.55 ppbv

RT: 18.03 min Scan# 2451

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

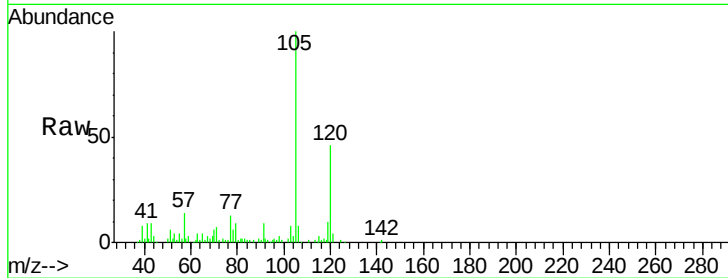
ClientSampleId :

Tot Ion:105 Resp: 298918

Ion Ratio Lower Upper

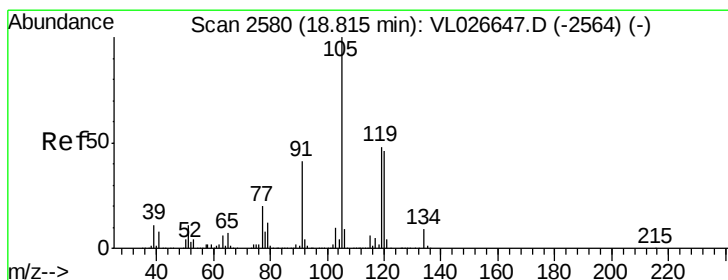
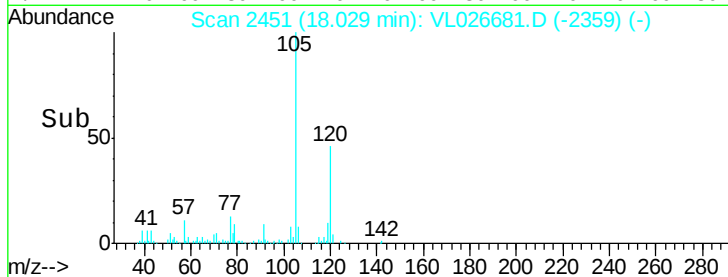
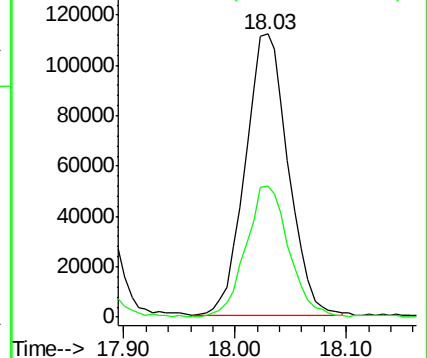
105 100

120 46.4 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.00 ppbv

RT: 18.88 min Scan# 2590

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Tgt Ion:105 Resp: 1155273

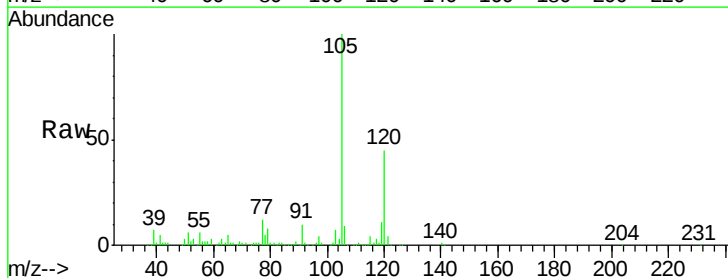
Ion Ratio Lower Upper

105 100

120 45.1 36.6 55.0

91 9.2 32.5 48.7#

77 11.7 15.7 23.5#

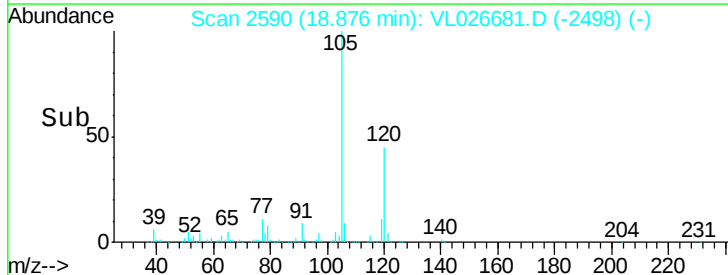
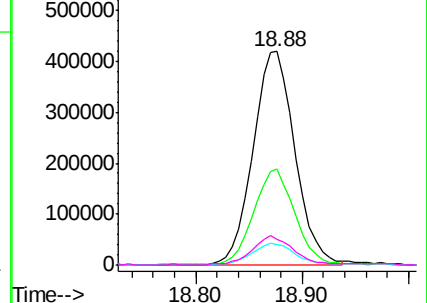


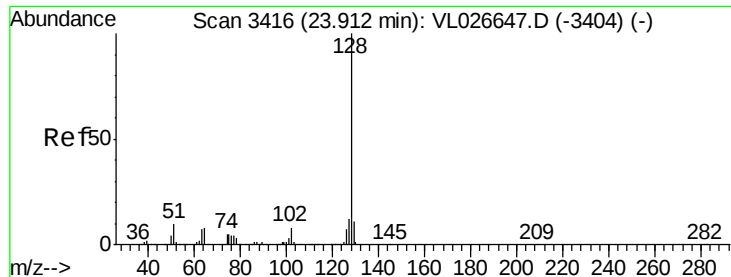
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.45 ppbv

RT: 23.97 min Scan# 3426

Delta R.T. 0.06 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

Instrument :

MSVOA_L

ClientSampleId :

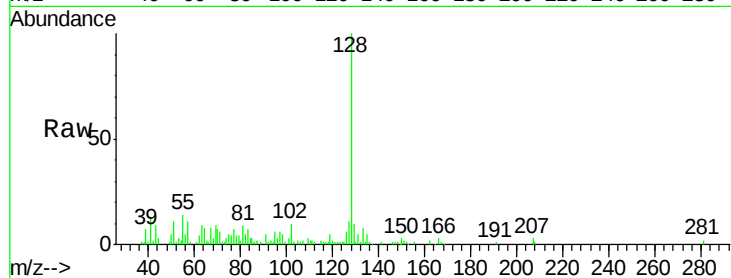
Tot Ion:128 Resp: 176894

Ion Ratio Lower Upper

128 100

127 10.4 9.8 14.8

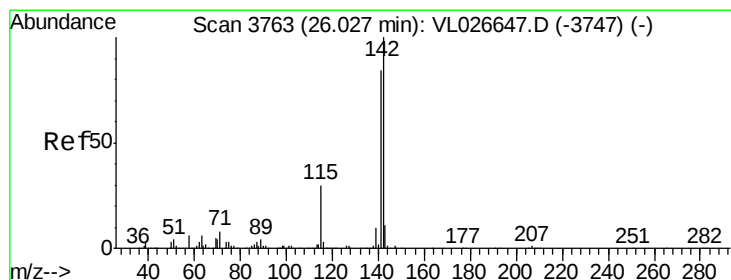
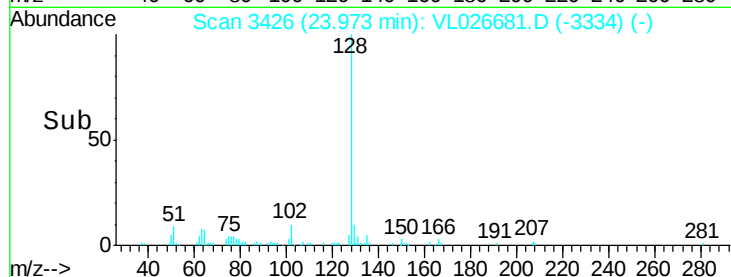
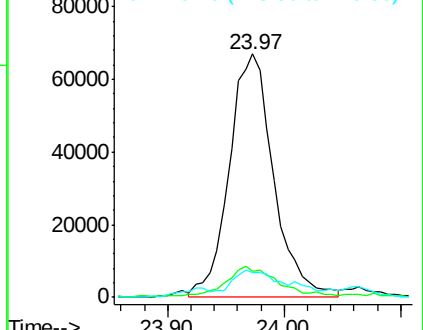
129 7.7 8.9 13.3#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.52 ppbv

RT: 26.08 min Scan# 3772

Delta R.T. 0.05 min

Lab File: VL026681.D

Acq: 12 Jan 2016 19:17

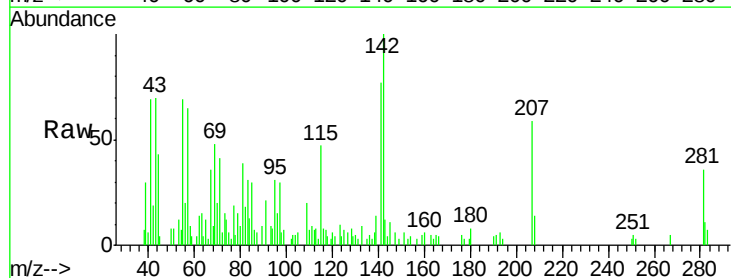
Tgt Ion:142 Resp: 31183

Ion Ratio Lower Upper

142 100

141 104.6 67.0 100.6#

115 63.6 24.7 37.1#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

