

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026186.D
 Acq On : 9 Oct 2015 21:35
 Operator : SY/MD
 Sample : G3973-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 10 00:14:32 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.66	49	718004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	1637589	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.85	117	2273376	10.00	ppbv	0.09

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.38	95	3731307	21.38	ppbv	0.08
Spiked Amount	10.000	Range	65 - 135	Recovery	=	213.80%#

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.64	85	6826	0.05 ppbv	# 85
3) Chlorodifluoromethane	3.57	51	29886	0.36 ppbv	# 88
4) Chloromethane	3.75	50	2409	0.05 ppbv	# 77
9) Propene	3.60	41	26987	0.70 ppbv	93
10) Heptane	9.46	43	19709057	147.26 ppbv	93
13) Ethanol	4.36	45	12988	2.29 ppbv	92
15) Acetone	4.60	43	2605059	28.07 ppbv	# 71
16) 1,3-Butadiene	3.95	39	29498	0.69 ppbv	# 19
17) tert-Butyl alcohol	5.19	59	14204	0.25 ppbv	# 71
20) Methylene Chloride	5.16	84	6275	0.16 ppbv	# 34
21) Allyl Chloride	5.18	41	346075	5.71 ppbv	# 64
23) Vinyl Acetate	5.98	43	6591442	40.13 ppbv	# 1
24) 1,1-Dichloroethane	5.97	63	35728	0.32 ppbv	# 85
25) Ethyl Acetate	6.70	43	9311090	51.88 ppbv	# 77
26) Hexane	6.70	57	12603878	145.02 ppbv	# 46
27) Carbon Disulfide	5.40	76	7242	0.07 ppbv	# 1
28) Methyl tert-Butyl Ether	5.99	73	35735	0.26 ppbv	# 54
30) Cyclohexane	8.33	84	12376629	149.46 ppbv	90
31) cis-1,2-Dichloroethene	6.43	61	6488	0.08 ppbv	# 30
34) 2-Butanone	6.34	43	3969064	43.54 ppbv	# 53
36) Benzene	8.05	78	9757302	62.30 ppbv	# 89
37) 1,2-Dichloroethane	7.42	62	96145	1.15 ppbv	96
39) 1,2-Dichloropropane	8.77	63	71683	1.23 ppbv	# 1
41) Tetrahydrofuran	7.17	42	636355	12.40 ppbv	# 36
42) Bromodichloromethane	9.08	83	5409483	48.99 ppbv	# 25
43) Methyl Methacrylate	9.52	69	12817688	232.36 ppbv	93
44) 2,2,4-Trimethylpentane	9.22	57	58695785	225.39 ppbv	# 40
47) 1,1,2-Trichloroethane	10.86	97	1777197	25.46 ppbv	# 52
50) 4-Methyl-2-Pentanone	10.20	43	1275982	10.59 ppbv	# 78
51) 2-Hexanone	11.67	43	31690910	292.45 ppbv	# 32
52) Tetrachloroethene	12.92	164	4591	0.06 ppbv	# 77
53) Toluene	11.37	91	50971675	252.55 ppbv	# 68
57) Chlorobenzene	13.97	112	3794253	18.49 ppbv	# 38
58) Ethyl Benzene	14.54	91	28680659	86.85 ppbv	# 60
59) m/p-Xylene	14.85	91	39751949	150.01 ppbv	# 68
60) o-Xylene	15.62	91	22704393	81.76 ppbv	76
61) Styrene	15.43	104	552444	4.86 ppbv	100
62) Isopropylbenzene	16.63	105	4298837	11.74 ppbv	99
63) 1,1,1,2-Tetrachloroethane	15.58	83	376450	1.82 ppbv	# 82
64) n-propylbenzene	17.60	120	1743825	17.69 ppbv	87
65) tert-Butylbenzene	18.89	119	829030	2.57 ppbv	# 87

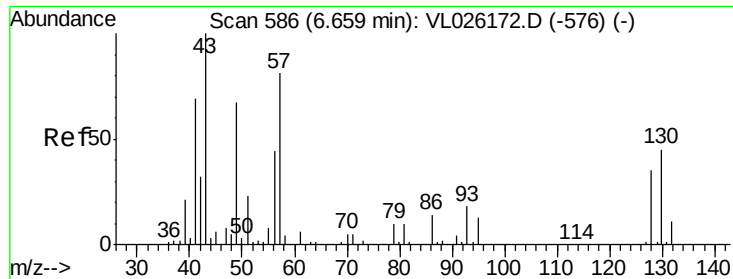
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026186.D
 Acq On : 9 Oct 2015 21:35
 Operator : SY/MD
 Sample : G3973-01DL 10X
 Misc : 400mL/MSVOA L
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Instrument :
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 ClientSampleId :

Quant Time: Oct 10 00:14:32 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	19.36	91	190854	1.99	ppbv #	74
67) sec-Butylbenzene	19.46	105	304610	0.68	ppbv	100
69) p-Isopropyltoluene	19.71	119	235831	0.65	ppbv	97
71) 2-Chlorotoluene	17.60	91	7067525	26.43	ppbv #	43
72) 4-Ethyltoluene	17.89	105	4583823	15.47	ppbv #	93
73) 1,3,5-Trimethylbenzene	18.05	105	4353036	15.63	ppbv	99
74) 1,2,4-Trimethylbenzene	18.89	105	5977982	20.47	ppbv #	73
75) 1,3-Dichlorobenzene	19.33	146	17949	0.10	ppbv #	1
76) 1,4-Dichlorobenzene	19.33	146	17949	0.10	ppbv #	1
79) Naphthalene	23.95	128	28663	0.16	ppbv	98
80) Naphthalene,2-methyl-	26.08	142	2083	0.05	ppbv #	59

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. -0.00 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :
MSVOA_L
ClientSampleId :

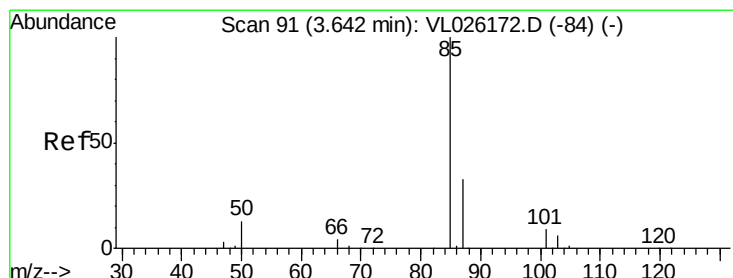
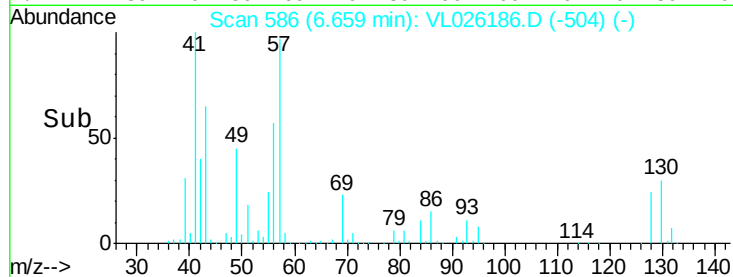
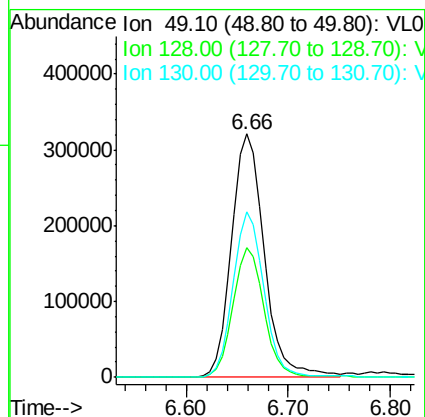
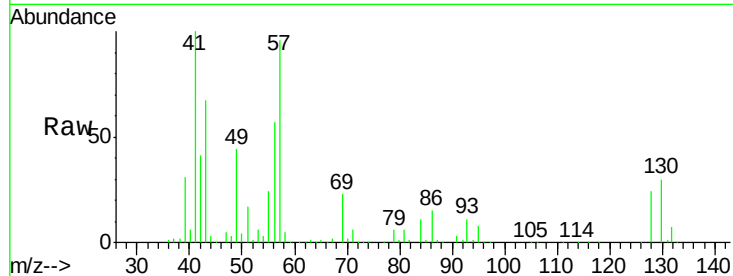
Tot Ion: 49 Resp: 718004

Ion Ratio Lower Upper

49 100

128 51.2 26.3 78.8

130 64.9 34.2 102.5



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL026186.D

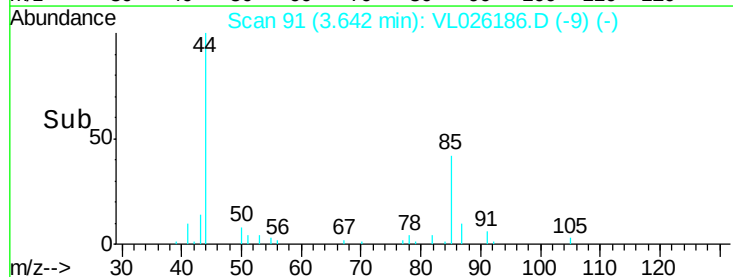
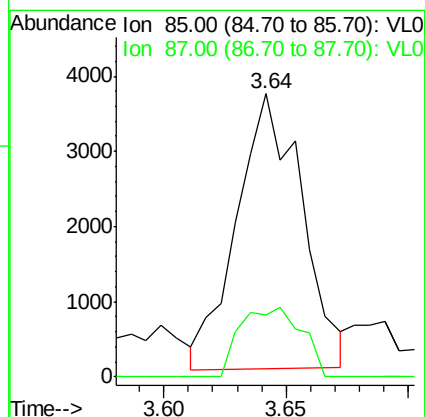
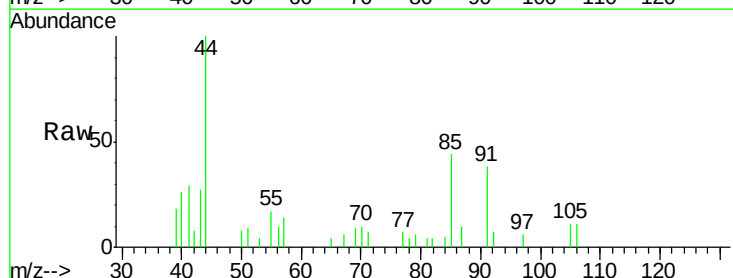
Acq: 9 Oct 2015 21:35

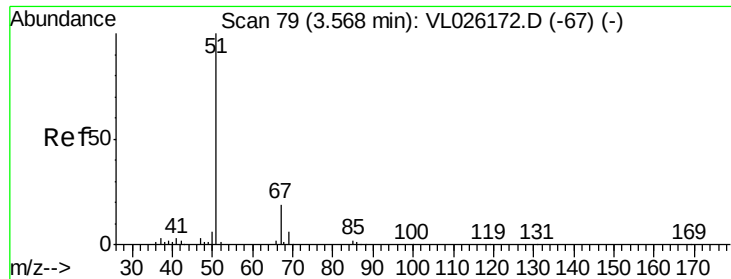
Tgt Ion: 85 Resp: 6826

Ion Ratio Lower Upper

85 100

87 24.5 26.2 39.4#





#3

Chlorodifluoromethane

Concen: 0.36 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

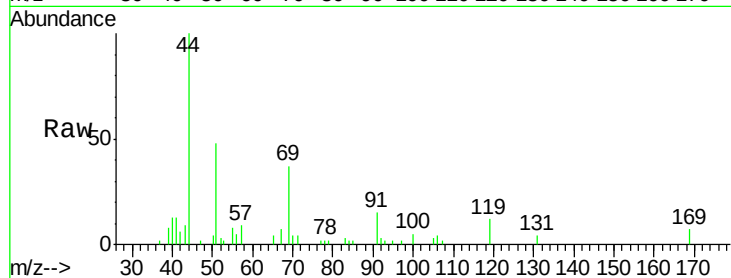
ClientSampleId :

Tot Ion: 51 Resp: 29886

Ion Ratio Lower Upper

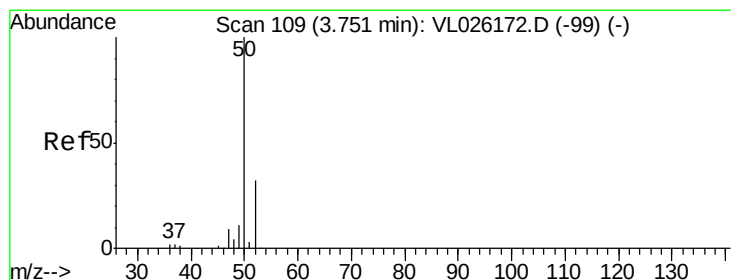
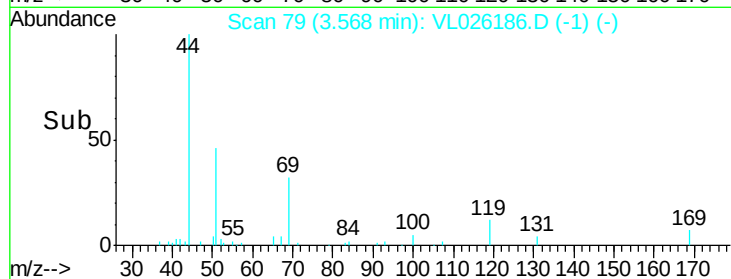
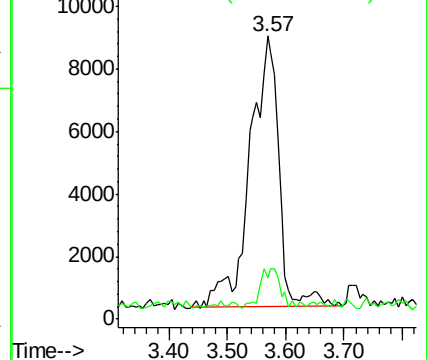
51 100

67 13.4 14.9 22.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.05 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL026186.D

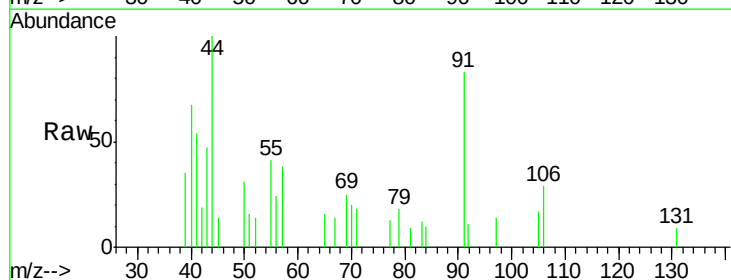
Acq: 9 Oct 2015 21:35

Tgt Ion: 50 Resp: 2409

Ion Ratio Lower Upper

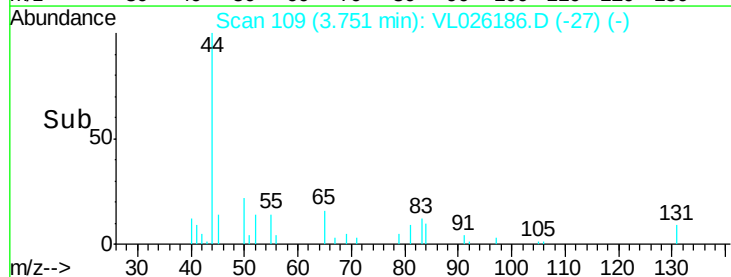
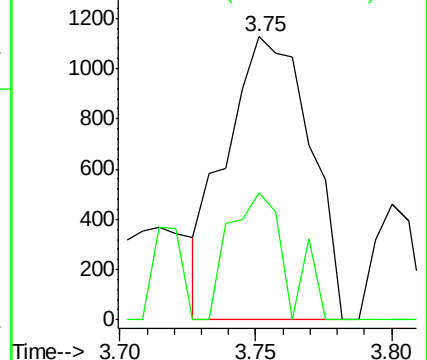
50 100

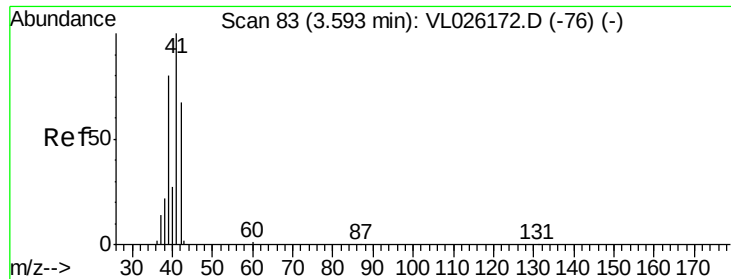
52 45.0 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.70 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

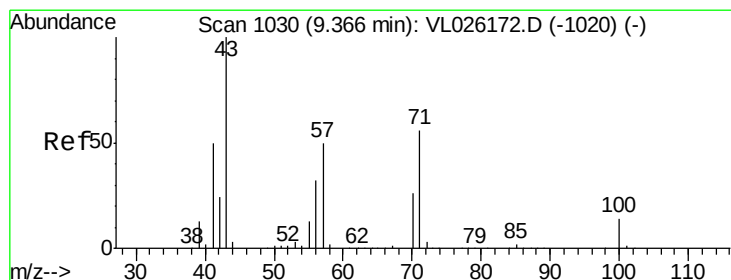
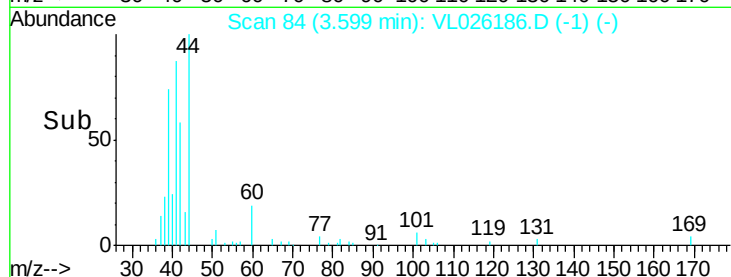
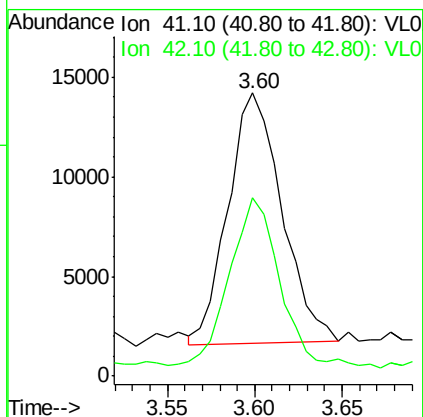
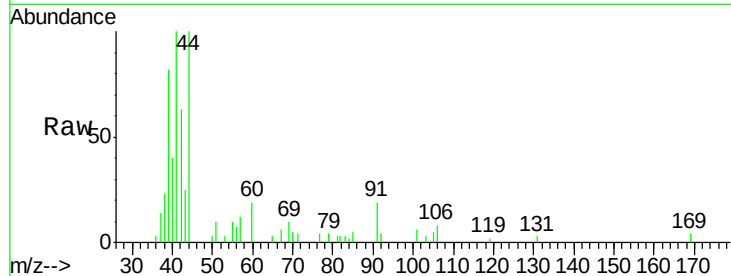
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 26987

Ion Ratio Lower Upper

41 100

42 61.3 53.6 80.4



#10

Heptane

Concen: 147.26 ppbv

RT: 9.46 min Scan# 1046

Delta R.T. 0.10 min

Lab File: VL026186.D

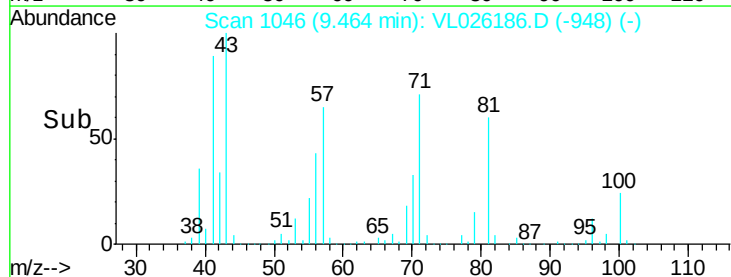
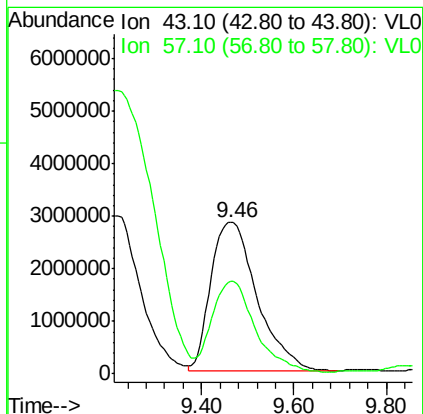
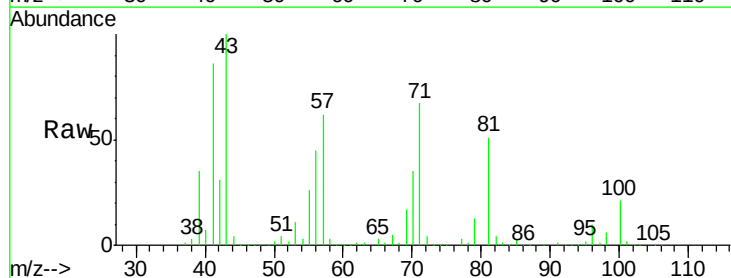
Acq: 9 Oct 2015 21:35

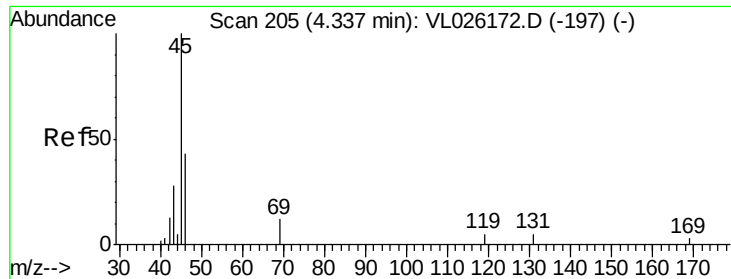
Tgt Ion: 43 Resp:19709057

Ion Ratio Lower Upper

43 100

57 57.0 41.8 62.8





#13

Ethanol

Concen: 2.29 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.02 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

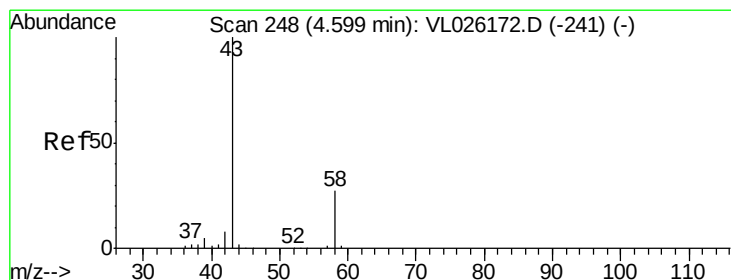
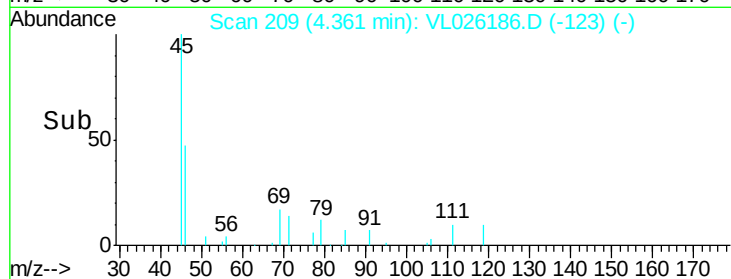
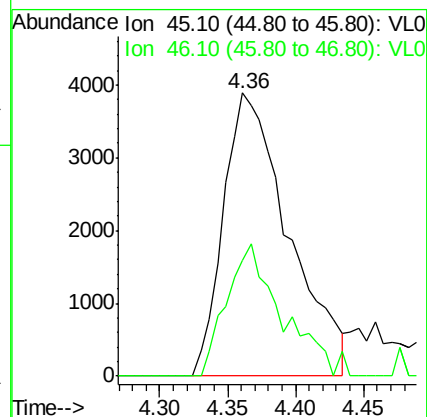
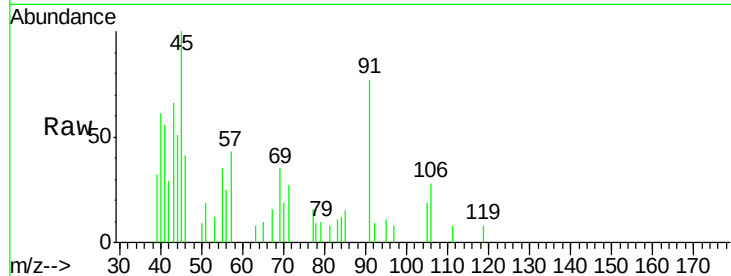
ClientSampleId :

Tot Ion: 45 Resp: 12988

Ion Ratio Lower Upper

45 100

46 40.0 18.1 72.5



#15

Acetone

Concen: 28.07 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL026186.D

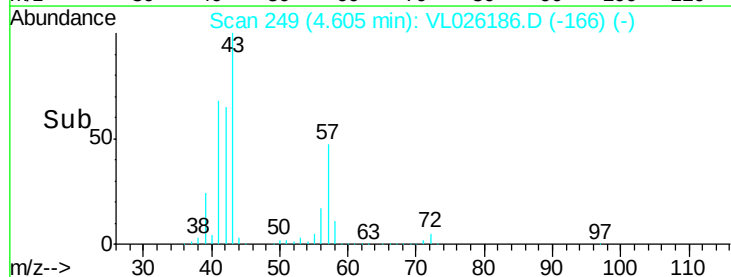
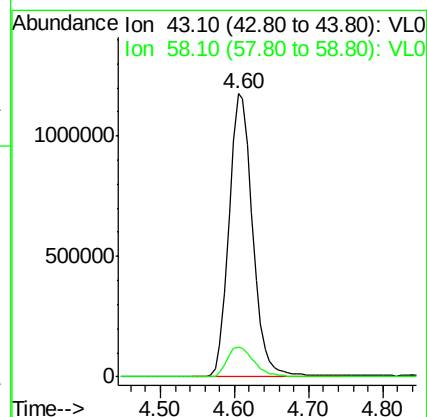
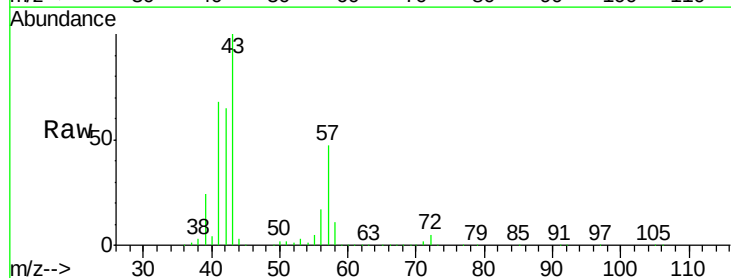
Acq: 9 Oct 2015 21:35

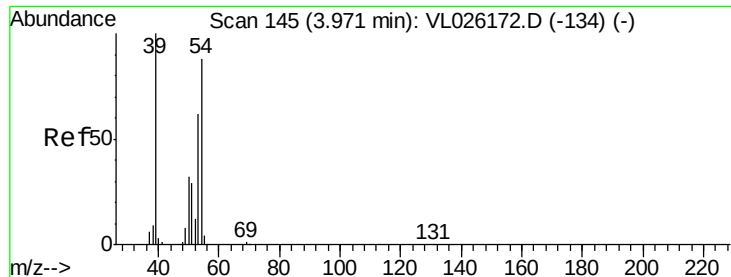
Tgt Ion: 43 Resp: 2605059

Ion Ratio Lower Upper

43 100

58 12.5 22.0 33.0#

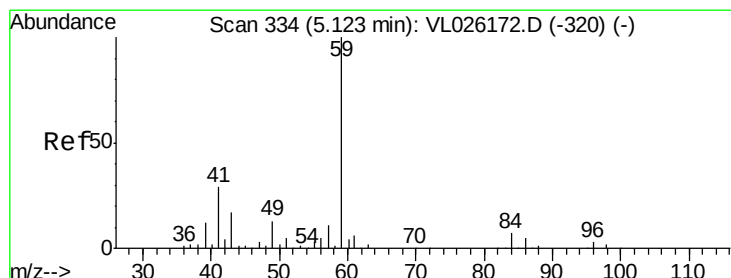
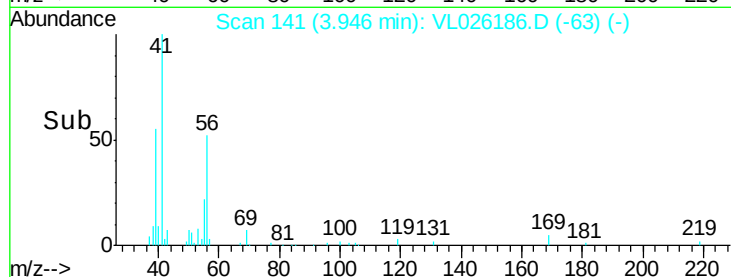
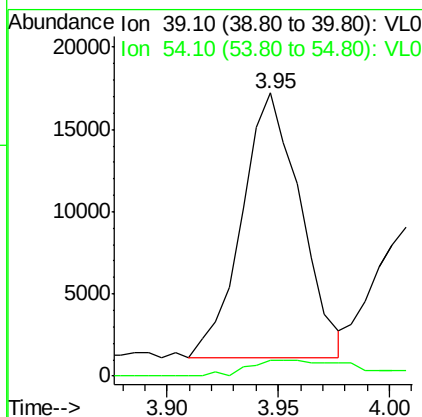
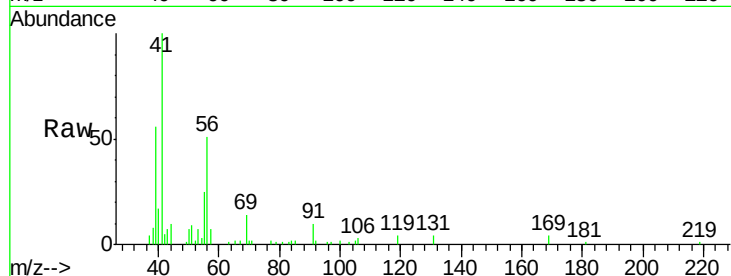




#16
1,3-Butadiene
Concen: 0.69 ppbv
RT: 3.95 min Scan# 141
Delta R.T. -0.02 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

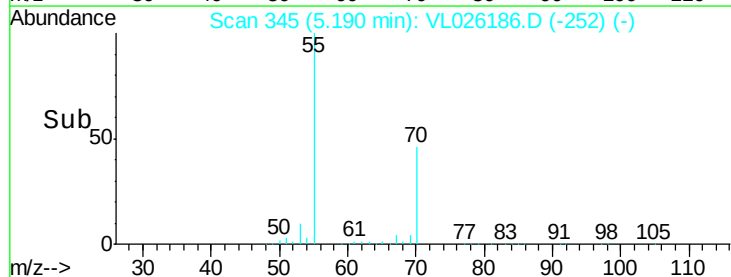
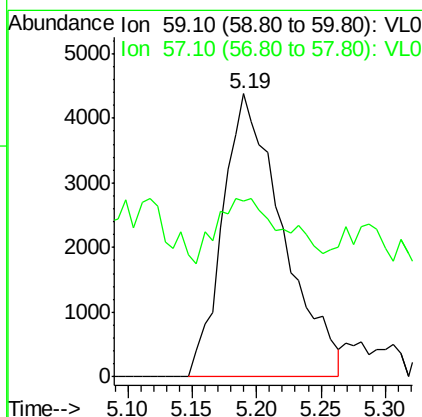
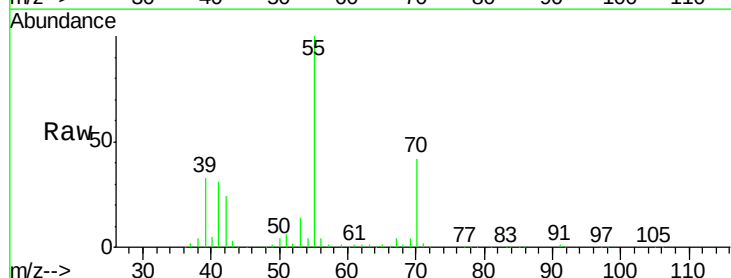
Instrument :
MSVOA_L
ClientSampleId :

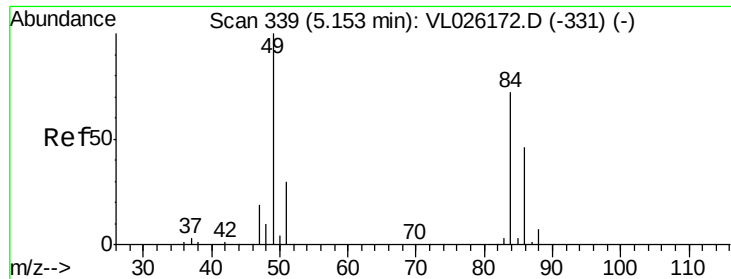
Tot Ion: 39 Resp: 29498
Ion Ratio Lower Upper
39 100
54 11.1 67.9 101.9#



#17
tert-Butyl alcohol
Concen: 0.25 ppbv
RT: 5.19 min Scan# 345
Delta R.T. 0.07 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 59 Resp: 14204
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

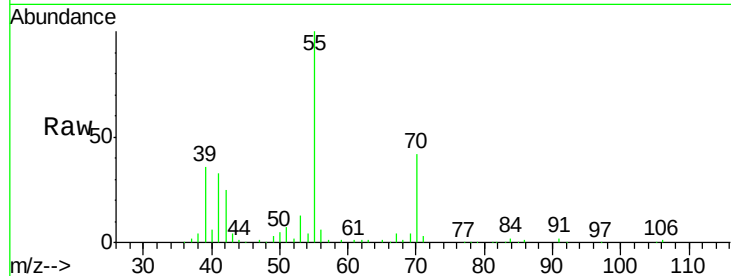




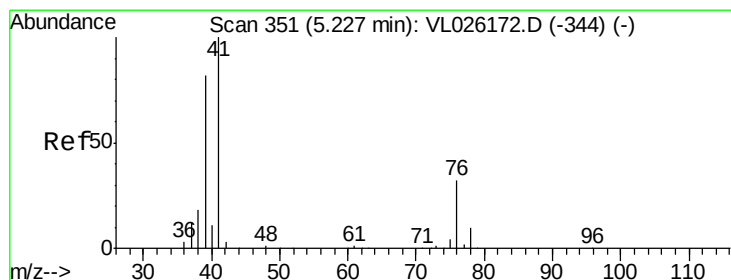
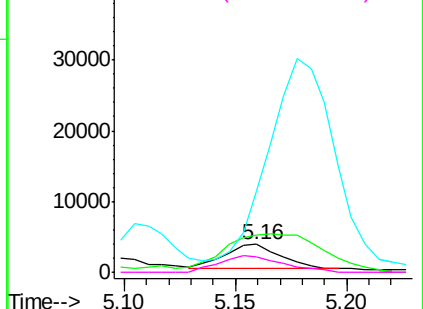
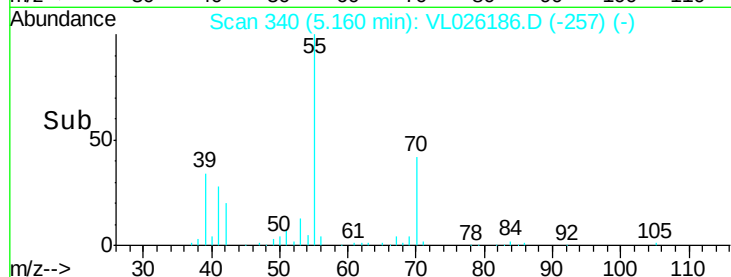
#20
Methylene Chloride
Concen: 0.16 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 6275
Ion Ratio Lower Upper
84 100
49 134.6 111.3 166.9
51 277.4 33.0 49.6#
86 66.7 51.6 77.4

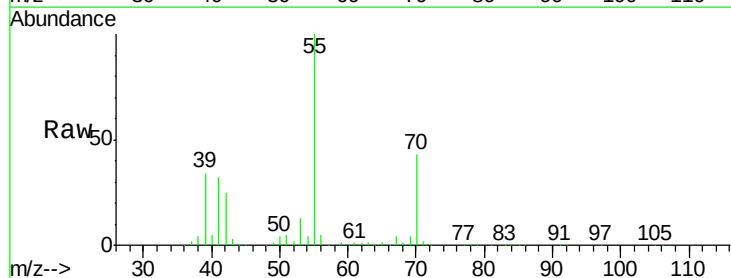


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

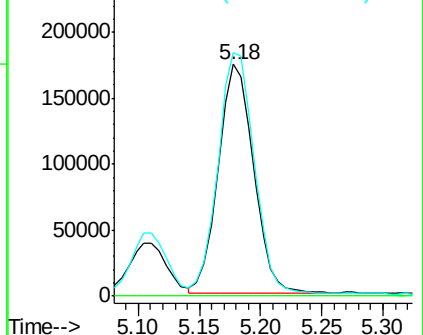
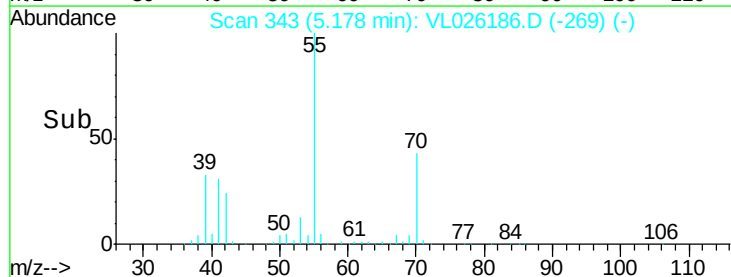


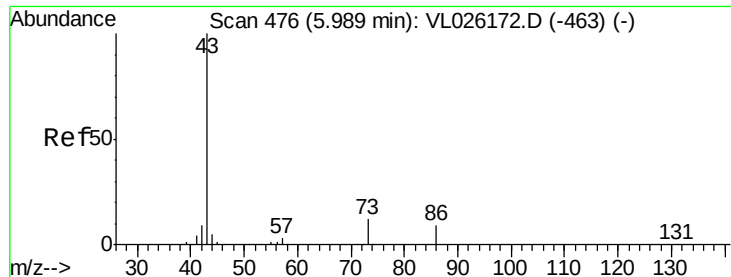
#21
Allyl Chloride
Concen: 5.71 ppbv
RT: 5.18 min Scan# 343
Delta R.T. -0.05 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 41 Resp: 346075
Ion Ratio Lower Upper
41 100
76 0.0 25.4 38.2#
39 108.2 66.5 99.7#



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: 40.13 ppbv

RT: 5.98 min Scan# 474

Delta R.T. -0.01 min

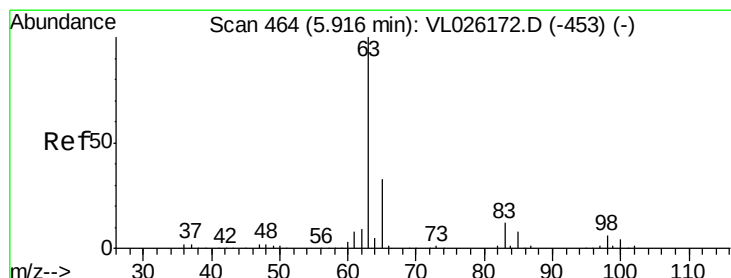
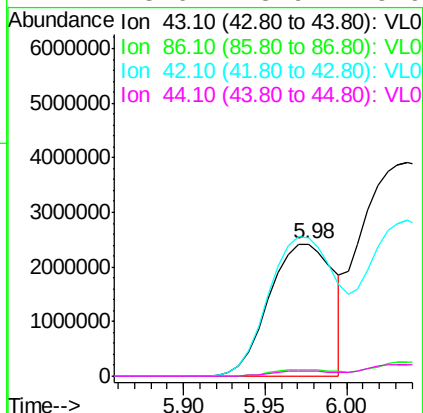
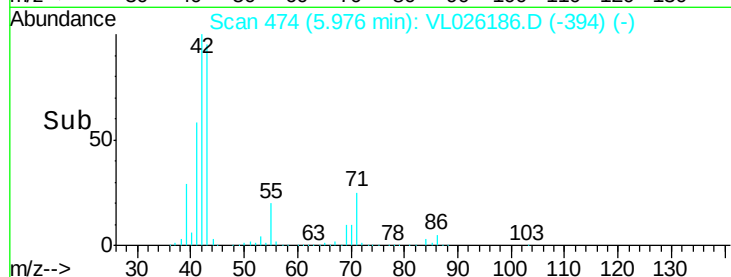
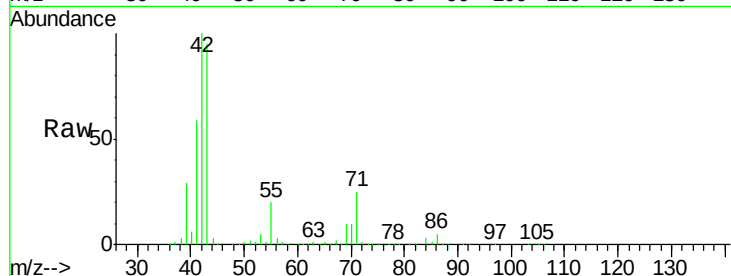
Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 6591442

Ion	Ratio	Lower	Upper
43	100		
86	4.9	7.2	10.8#
42	105.0	7.4	11.2#
44	3.6	3.9	5.9#



#24

1,1-Dichloroethane

Concen: 0.32 ppbv

RT: 5.97 min Scan# 473

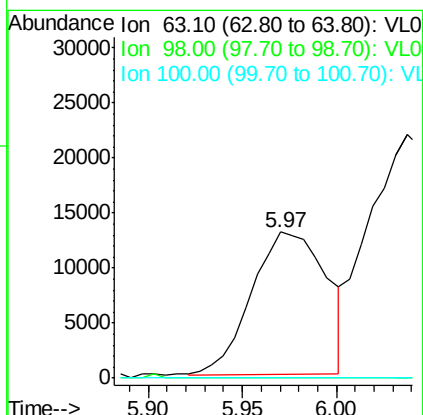
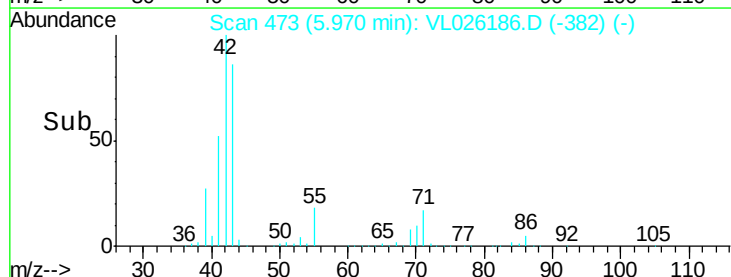
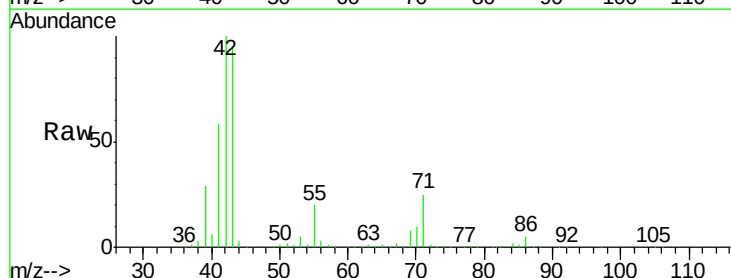
Delta R.T. 0.05 min

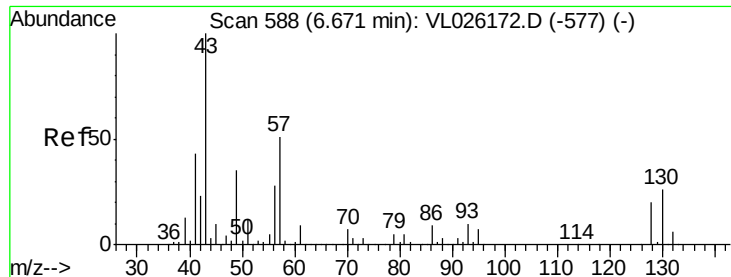
Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Tgt Ion: 63 Resp: 35728

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.9	8.7#
100	0.0	1.8	5.5#

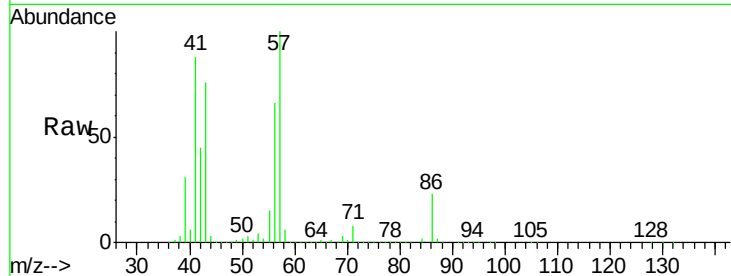




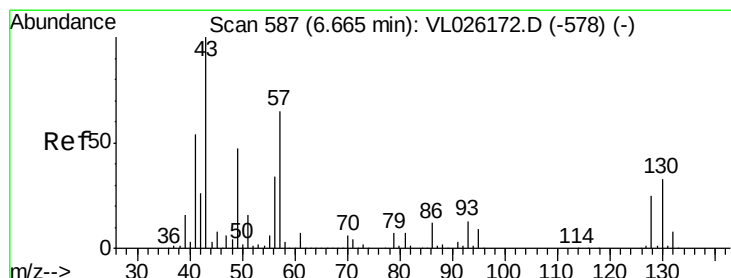
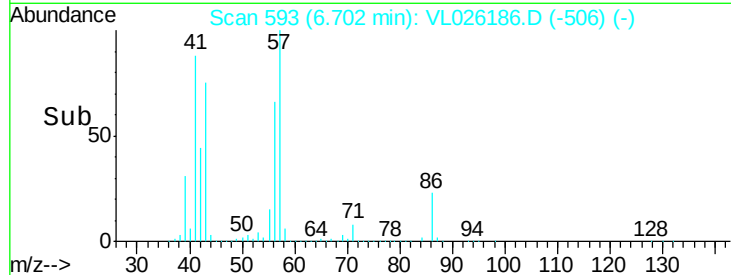
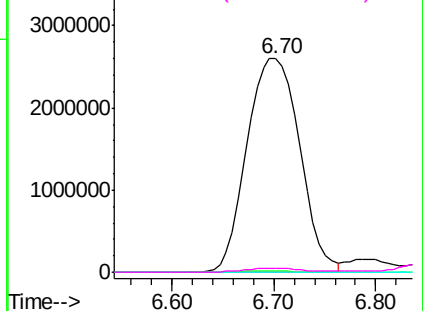
#25
Ethyl Acetate
Concen: 51.88 ppbv
RT: 6.70 min Scan# 593
Delta R.T. 0.03 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 9311090
Ion Ratio Lower Upper
43 100
45 0.6 7.7 11.5#
61 0.2 7.4 11.2#
70 2.0 6.6 9.8#

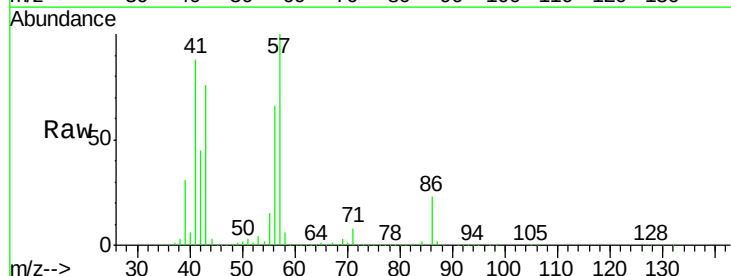


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

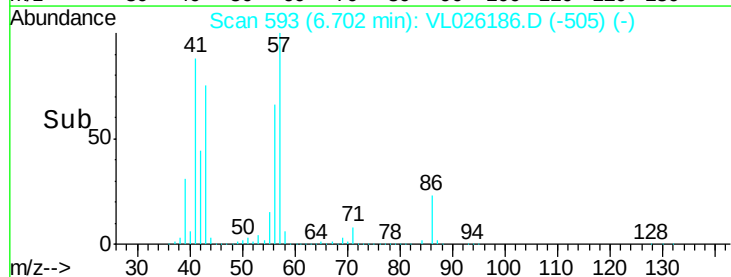
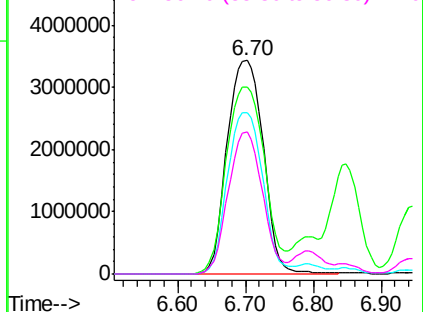


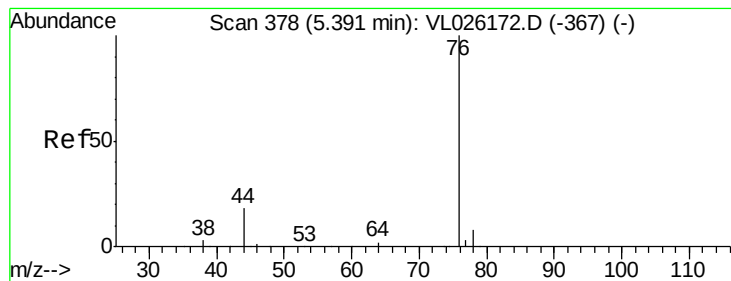
#26
Hexane
Concen: 145.02 ppbv
RT: 6.70 min Scan# 593
Delta R.T. 0.04 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 57 Resp: 12603878
Ion Ratio Lower Upper
57 100
41 95.1 68.0 102.0
43 79.4 164.4 246.6#
56 64.0 42.7 64.1



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.07 ppbv

RT: 5.40 min Scan# 379

Delta R.T. 0.01 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

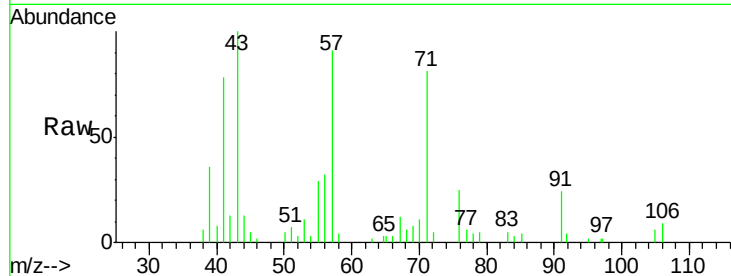
Tot Ion: 76 Resp: 7242

Ion Ratio Lower Upper

76 100

44 933.1 14.2 21.4#

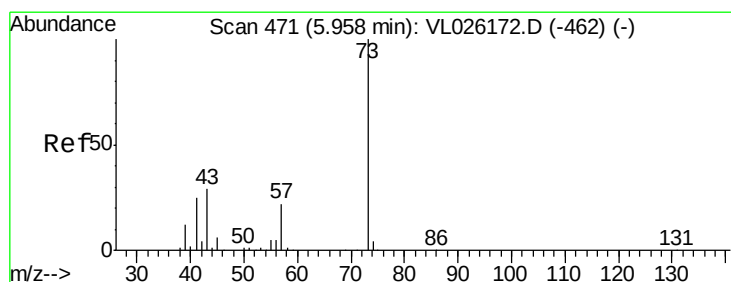
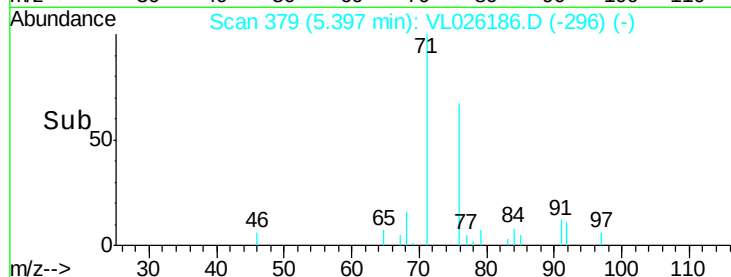
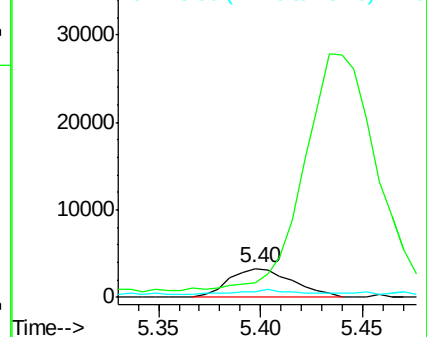
78 42.0 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.26 ppbv

RT: 5.99 min Scan# 476

Delta R.T. 0.03 min

Lab File: VL026186.D

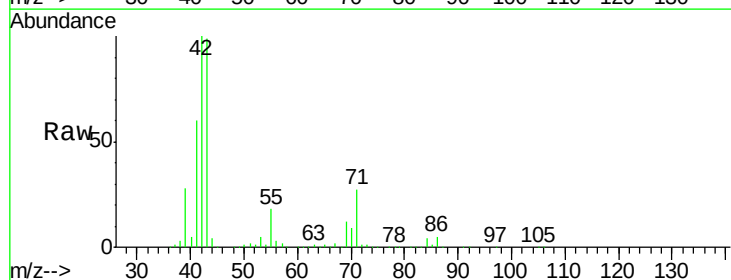
Acq: 9 Oct 2015 21:35

Tgt Ion: 73 Resp: 35735

Ion Ratio Lower Upper

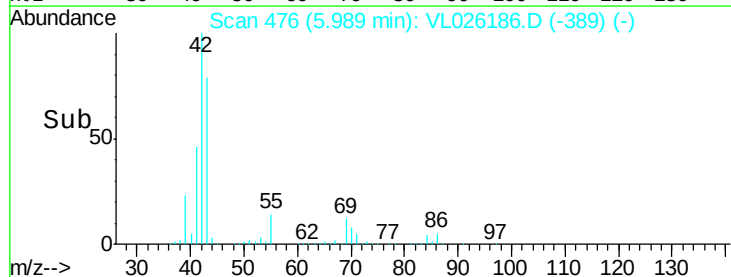
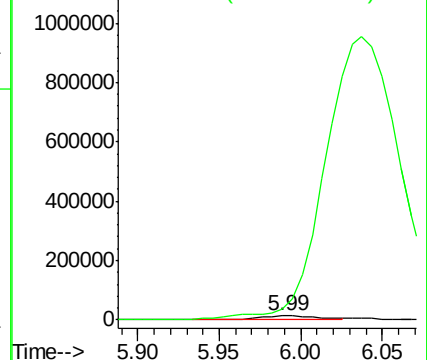
73 100

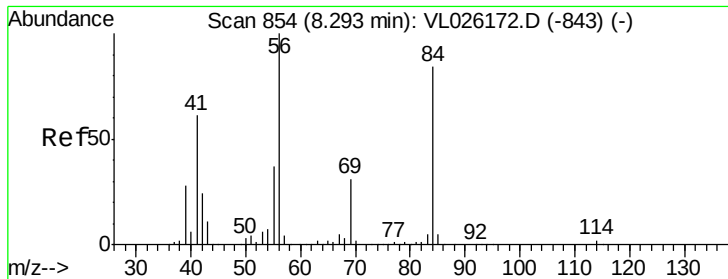
57 0.0 17.8 26.6#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#30

Cvclohexane

Concen: 149.46 ppbv

RT: 8.33 min Scan# 860

Delta R.T. 0.04 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :
MSVOA_L
ClientSampleId :

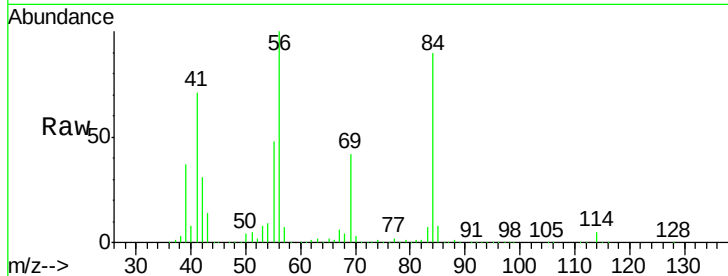
Tot Ion: 84 Resp:12376629

Ion Ratio Lower Upper

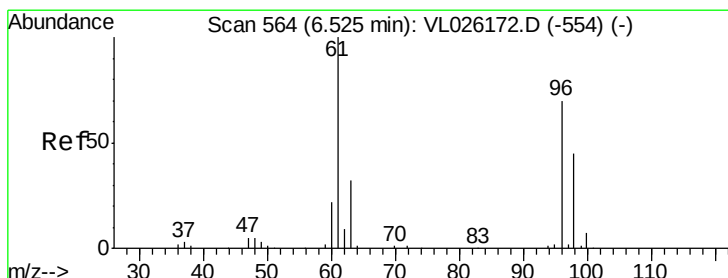
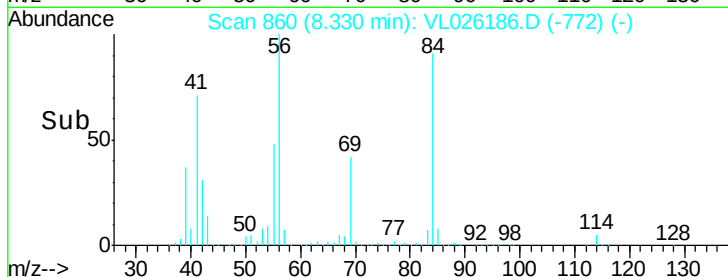
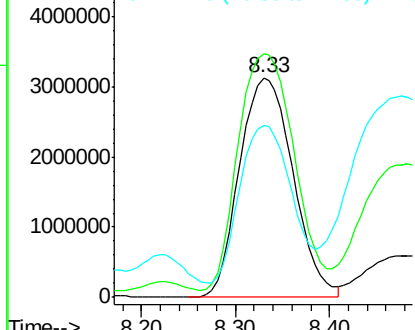
84 100

56 110.2 99.8 149.8

41 68.4 58.1 87.1



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



#31

cis-1,2-Dichloroethene

Concen: 0.08 ppbv

RT: 6.43 min Scan# 548

Delta R.T. -0.10 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

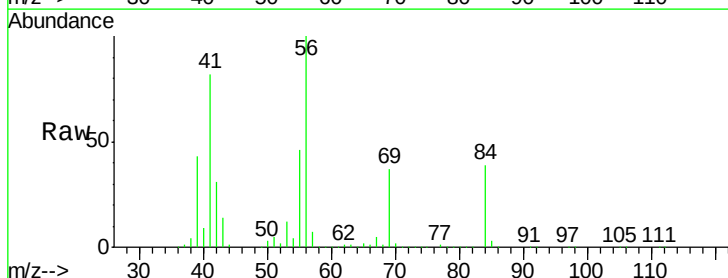
Tgt Ion: 61 Resp: 6488

Ion Ratio Lower Upper

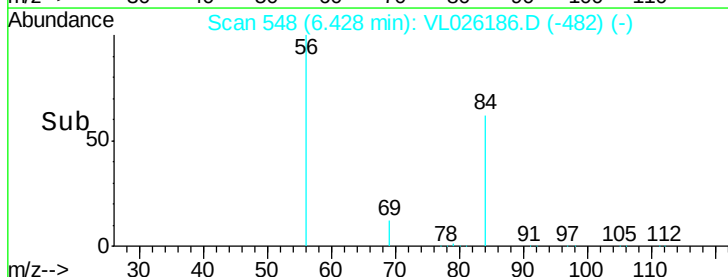
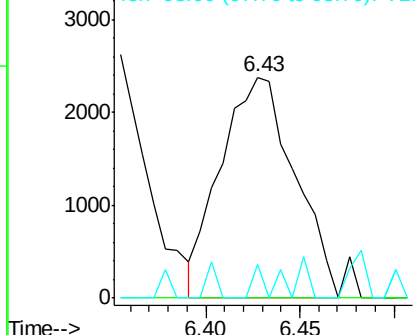
61 100

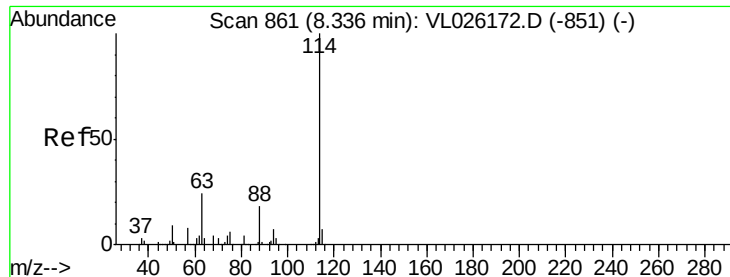
96 0.0 55.8 83.8#

98 15.3 35.8 53.6#



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

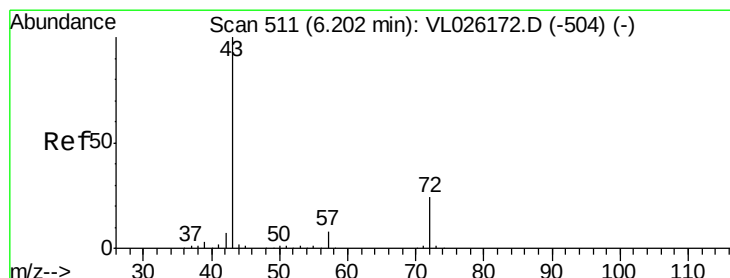
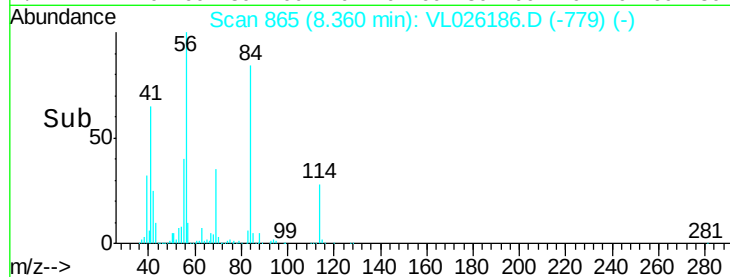
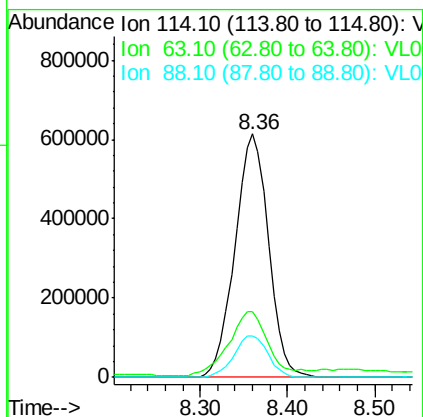
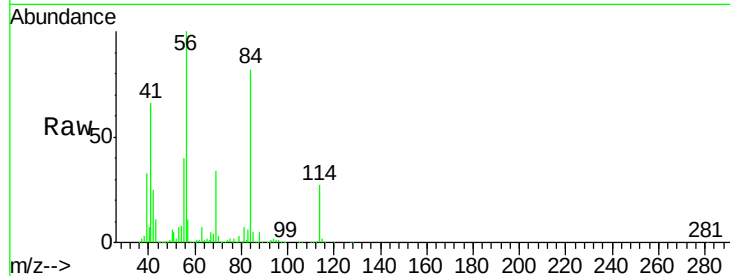




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. 0.02 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

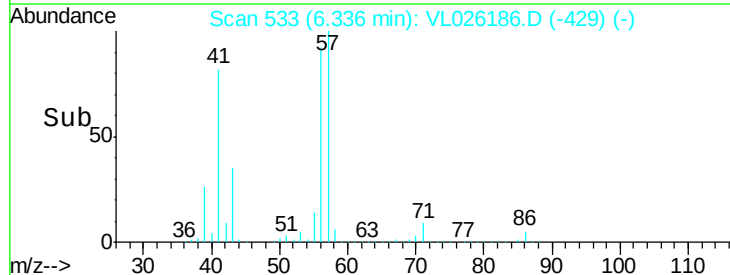
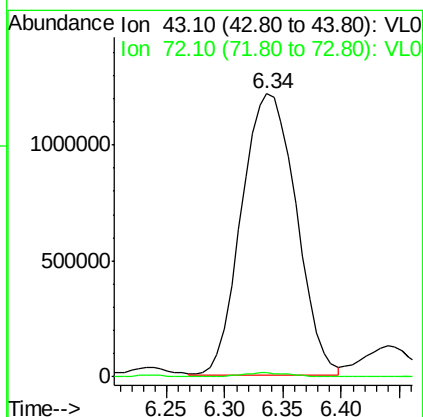
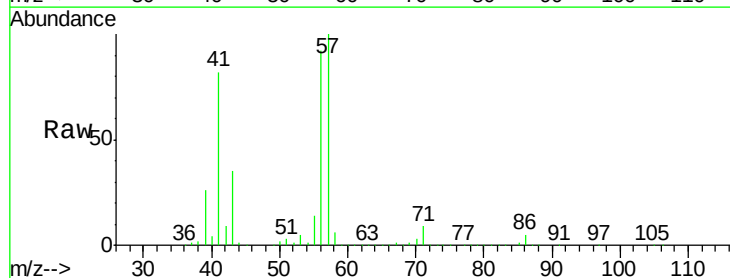
Instrument :
 MSVOA_L
 ClientSampleId :

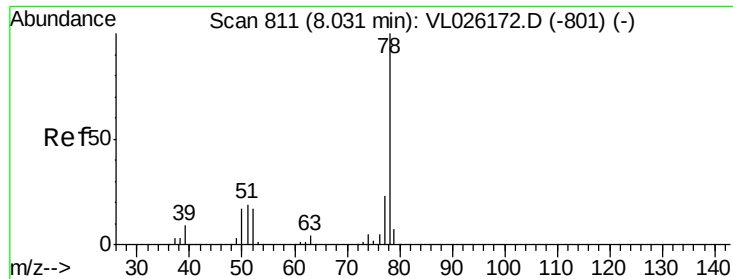
Tot Ion:114 Resp: 1637589
 Ion Ratio Lower Upper
 114 100
 63 31.6 19.0 28.6#
 88 17.5 13.8 20.8



#34
 2-Butanone
 Concen: 43.54 ppbv
 RT: 6.34 min Scan# 533
 Delta R.T. 0.13 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

Tgt Ion: 43 Resp: 3969064
 Ion Ratio Lower Upper
 43 100
 72 1.3 19.6 29.4#

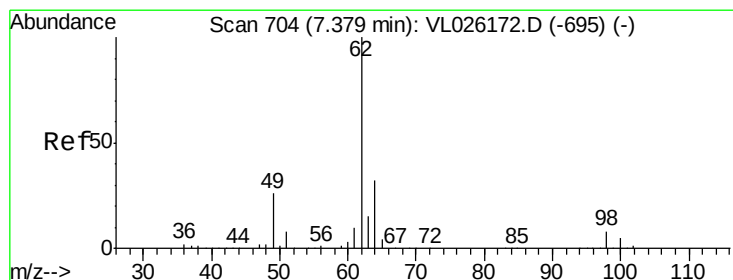
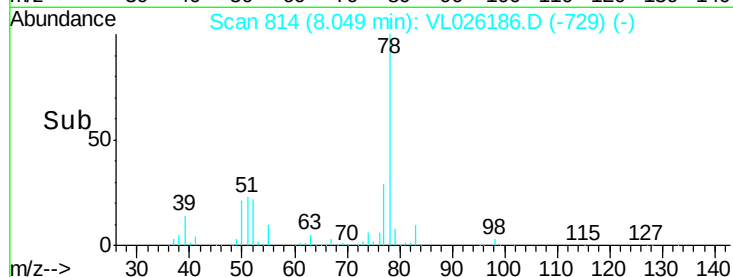
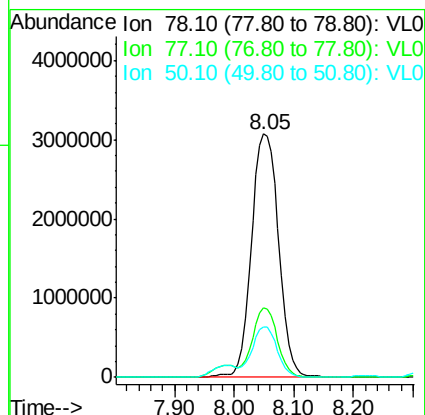
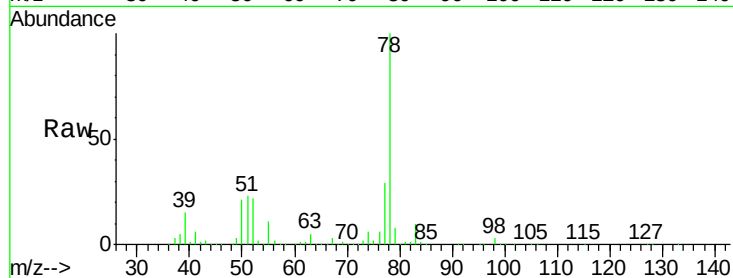




#36
Benzene
Concen: 62.30 ppbv
RT: 8.05 min Scan# 814
Delta R.T. 0.02 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

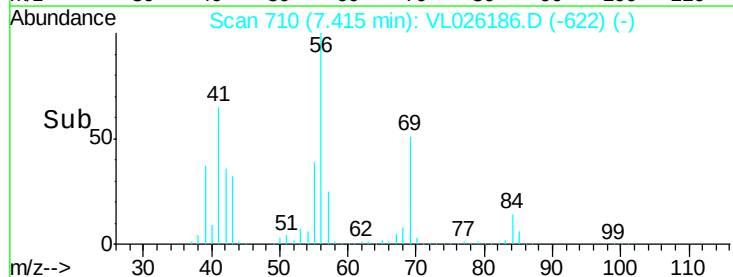
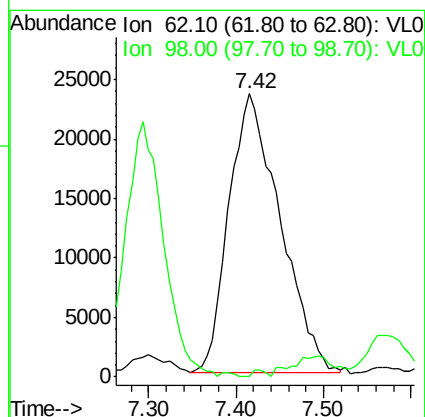
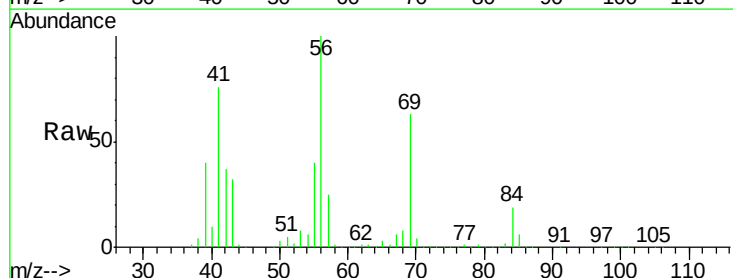
Instrument :
MSVOA_L
ClientSampleId :

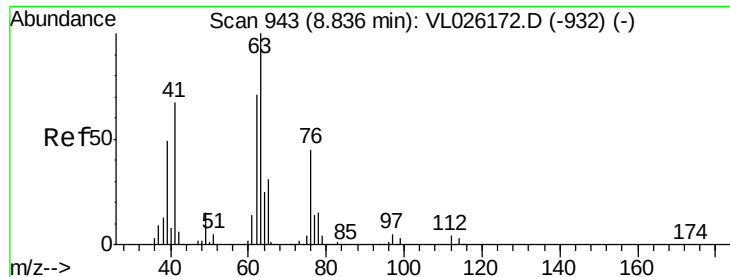
Tot Ion: 78 Resp: 9757302
Ion Ratio Lower Upper
78 100
77 28.5 18.2 27.4#
50 20.8 13.4 20.2#



#37
1,2-Dichloroethane
Concen: 1.15 ppbv
RT: 7.42 min Scan# 710
Delta R.T. 0.04 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 62 Resp: 96145
Ion Ratio Lower Upper
62 100
98 6.4 6.2 9.2





#39

1,2-Dichloropropane

Concen: 1.23 ppbv

RT: 8.77 min Scan# 932

Delta R.T. -0.07 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

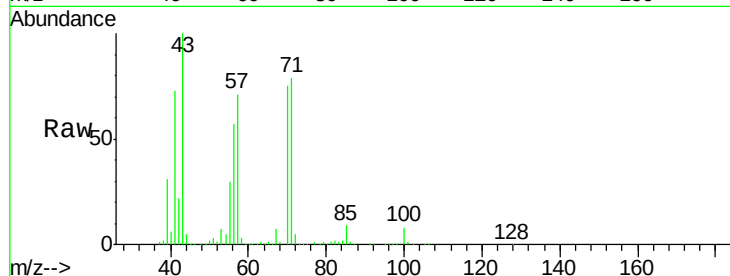
Tot Ion: 63 Resp: 71683

Ion Ratio Lower Upper

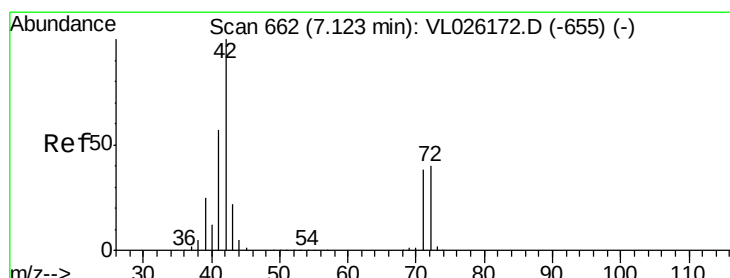
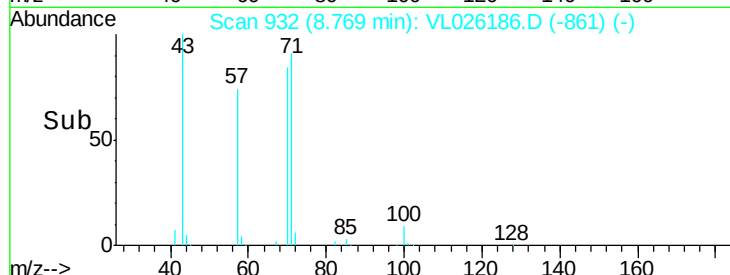
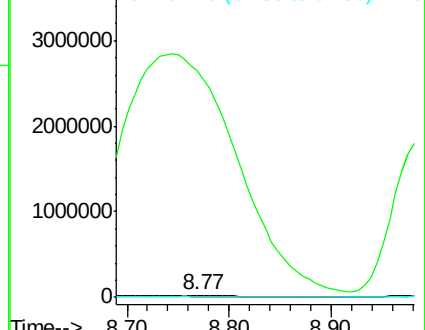
63 100

41 11256.3 53.9 80.9#

62 46.3 57.1 85.7#



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: 12.40 ppbv

RT: 7.17 min Scan# 670

Delta R.T. 0.05 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

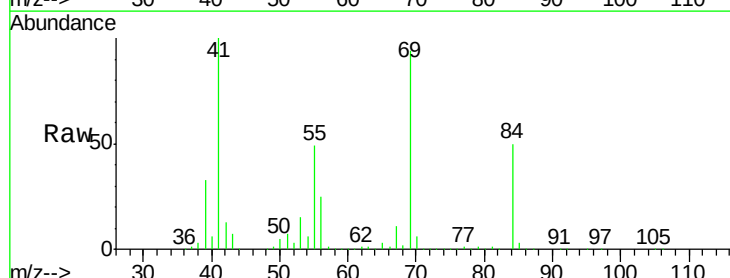
Tgt Ion: 42 Resp: 636355

Ion Ratio Lower Upper

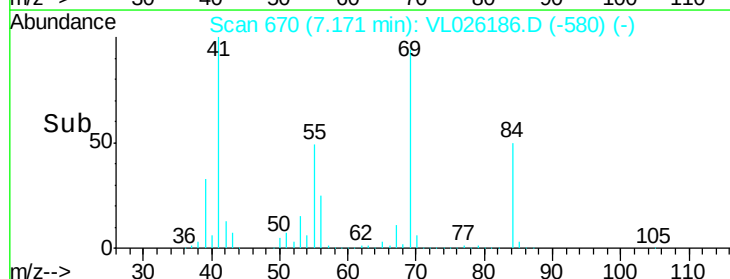
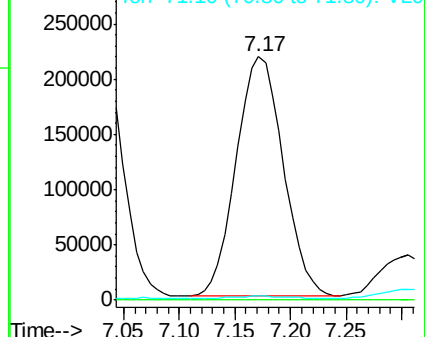
42 100

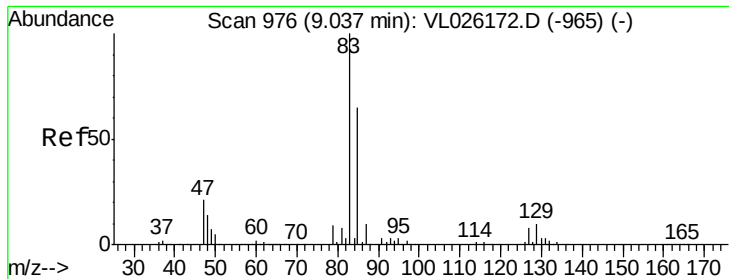
72 0.3 32.4 48.6#

71 0.0 30.2 45.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 48.99 ppbv

RT: 9.08 min Scan# 983

Delta R.T. 0.04 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampled :

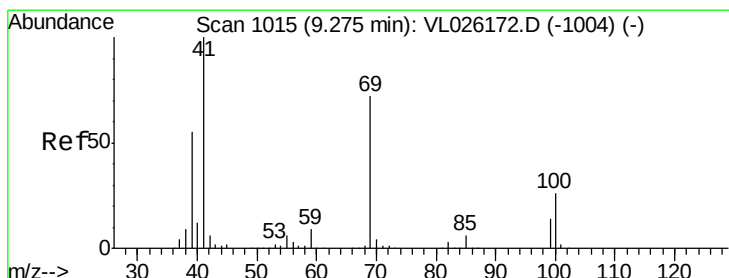
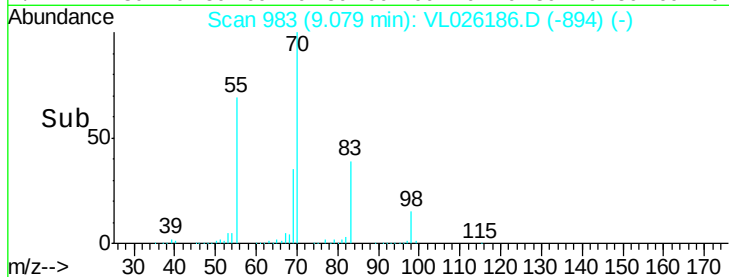
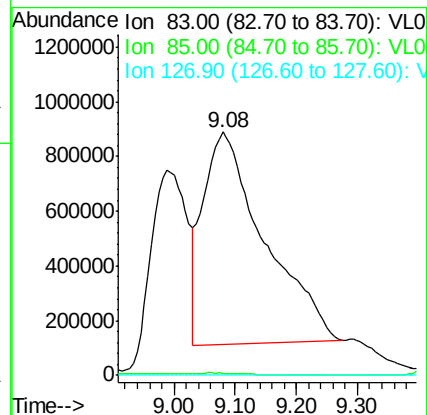
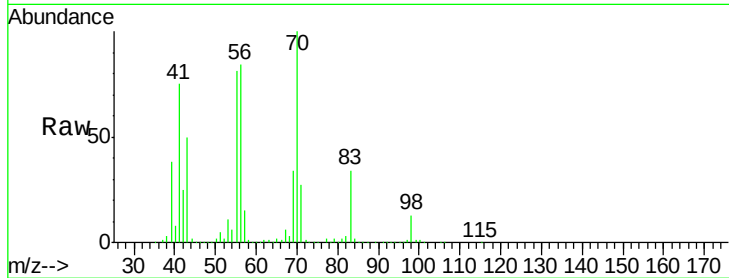
Tot Ion: 83 Resp: 5409483

Ion Ratio Lower Upper

83 100

85 0.8 51.9 77.9#

127 0.0 6.2 9.4#



#43

Methyl Methacrylate

Concen: 232.36 ppbv

RT: 9.52 min Scan# 1056

Delta R.T. 0.25 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

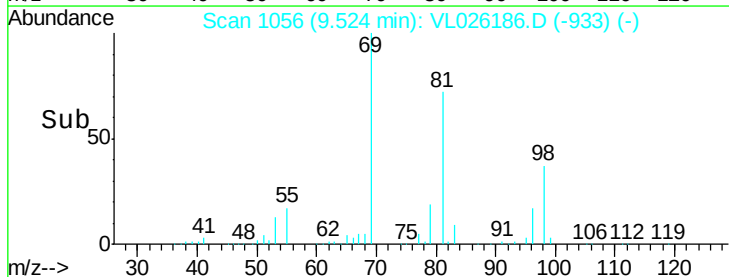
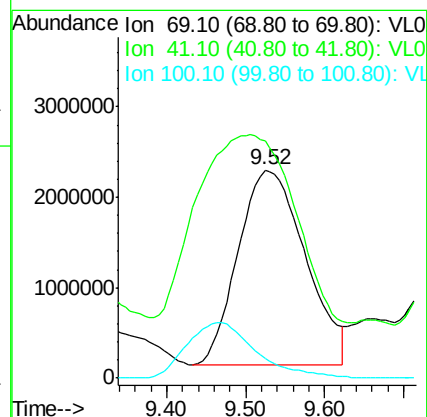
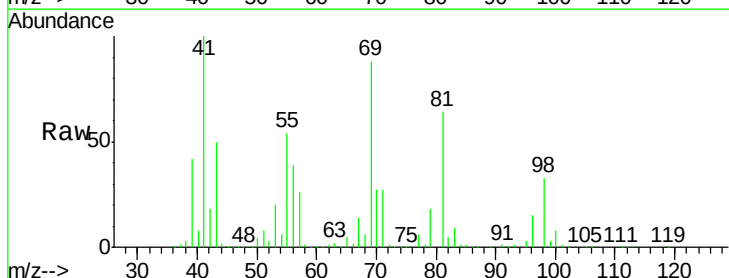
Tgt Ion: 69 Resp:12817688

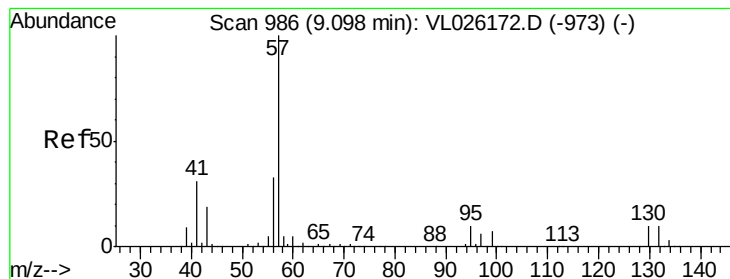
Ion Ratio Lower Upper

69 100

41 147.4 111.5 167.3

100 29.2 28.4 42.6





#44

2,2,4-Trimethylpentane

Concen: 225.39 ppbv

RT: 9.22 min Scan# 1006

Delta R.T. 0.12 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

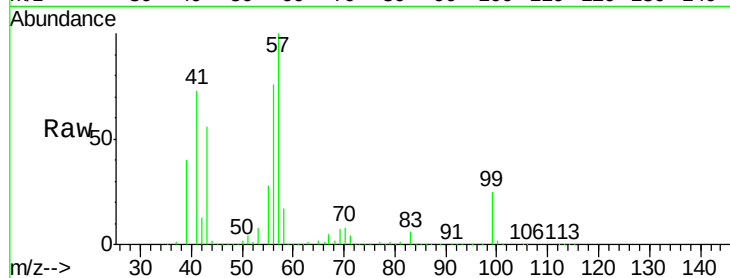
Tot Ion: 57 Resp: 58695785

Ion Ratio Lower Upper

57 100

41 59.4 23.7 35.5#

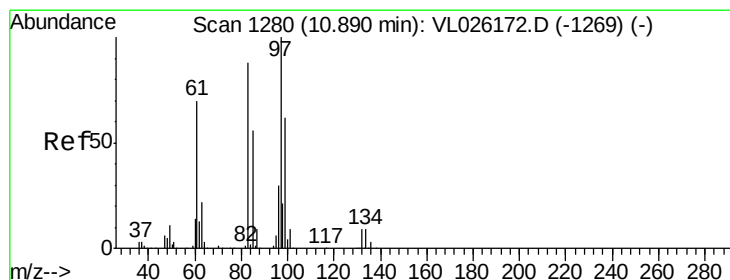
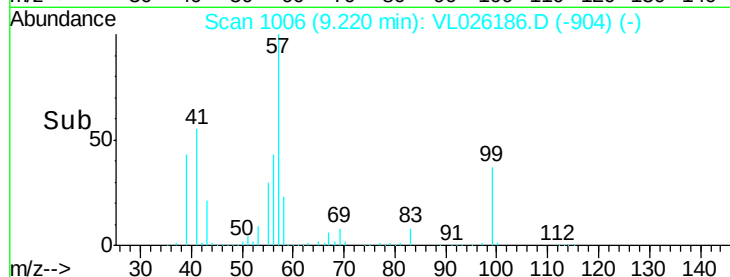
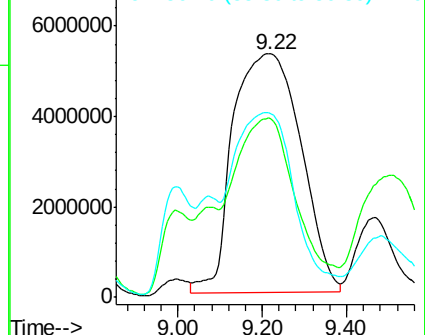
56 69.4 26.4 39.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 25.46 ppbv

RT: 10.86 min Scan# 1275

Delta R.T. -0.03 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Tgt Ion: 97 Resp: 1777197

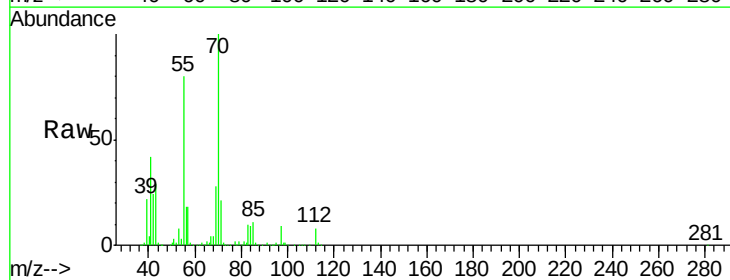
Ion Ratio Lower Upper

97 100

83 77.7 70.6 106.0

85 122.8 45.1 67.7#

99 15.7 49.9 74.9#

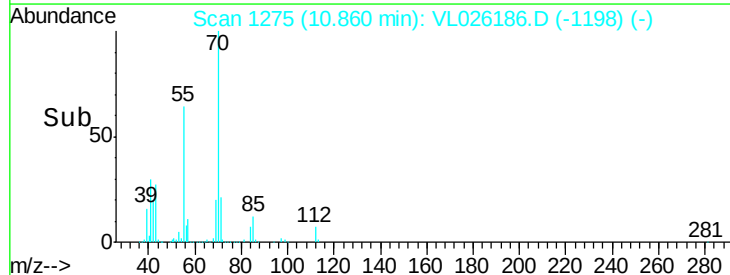
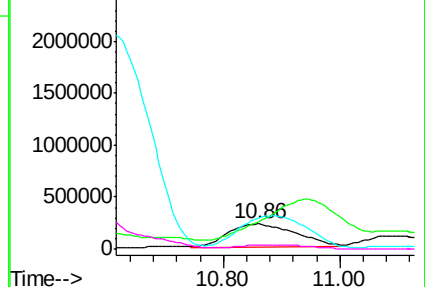


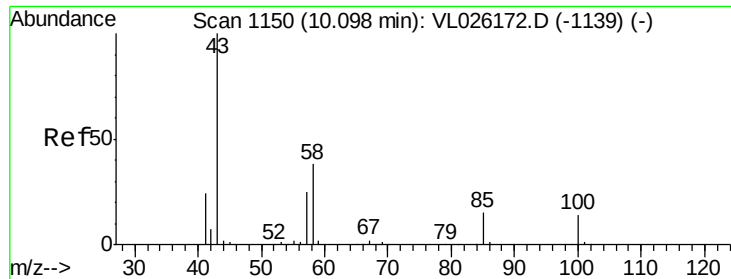
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

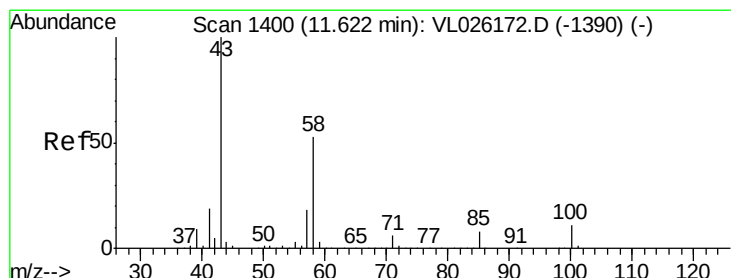
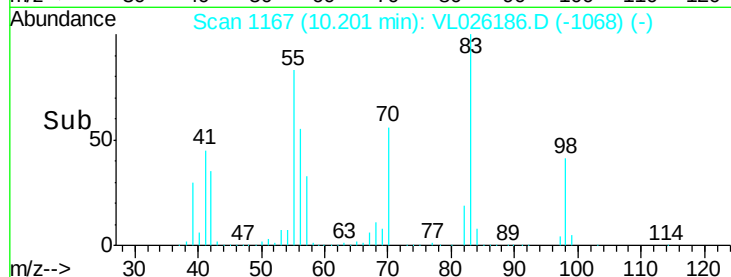
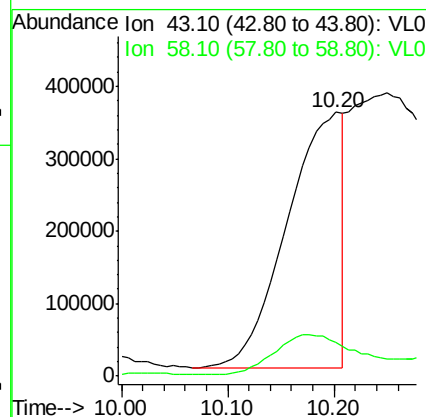
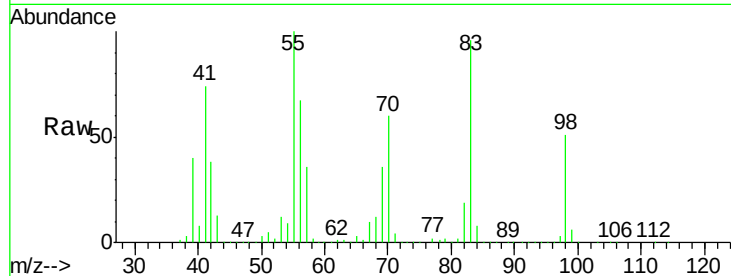




#50
 4-Methyl-2-Pentanone
 Concen: 10.59 ppbv
 RT: 10.20 min Scan# 1167
 Delta R.T. 0.10 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

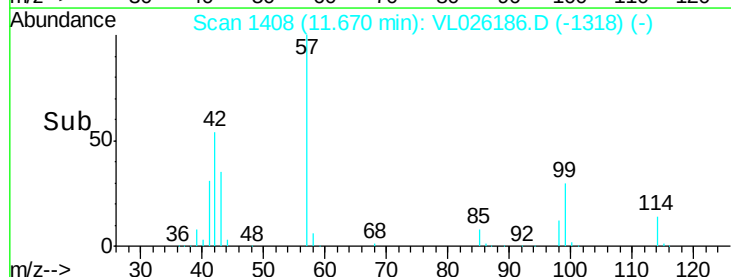
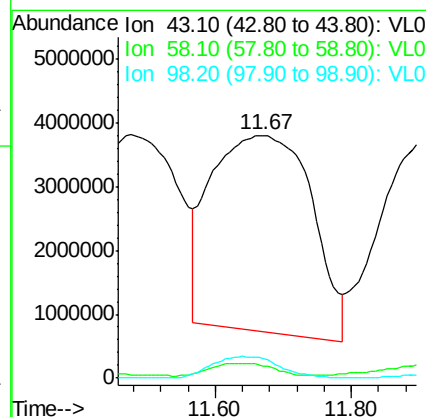
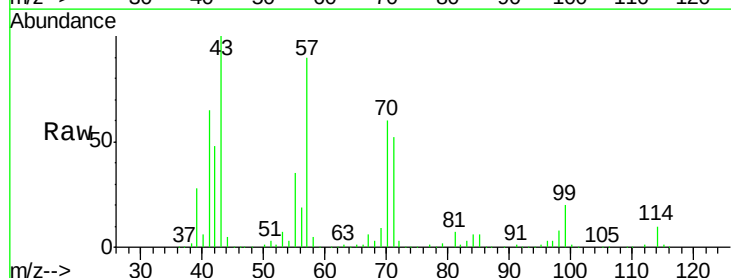
Instrument :
 MSVOA_L
 ClientSampleId :

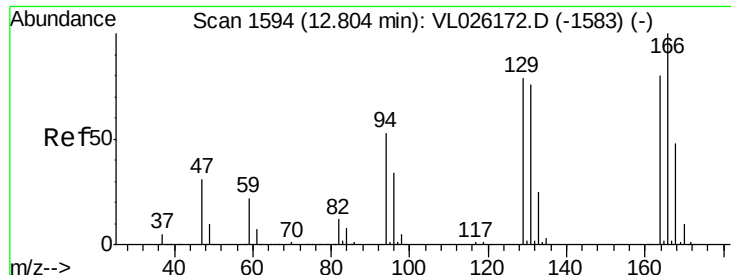
Tot Ion: 43 Resp: 1275982
 Ion Ratio Lower Upper
 43 100
 58 24.6 30.4 45.6#



#51
 2-Hexanone
 Concen: 292.45 ppbv
 RT: 11.67 min Scan# 1408
 Delta R.T. 0.05 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

Tgt Ion: 43 Resp: 31690910
 Ion Ratio Lower Upper
 43 100
 58 4.7 42.2 63.4#
 98 7.3 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.06 ppbv

RT: 12.92 min Scan# 1613

Delta R.T. 0.12 min

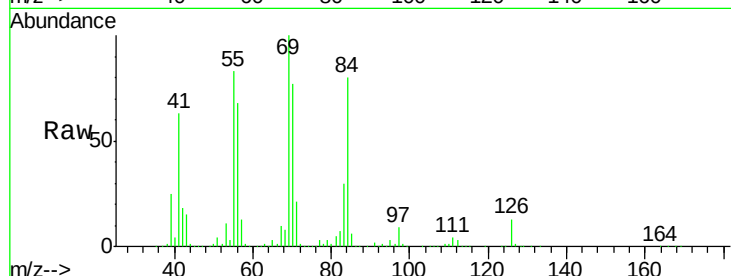
Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion:164 Resp: 4591

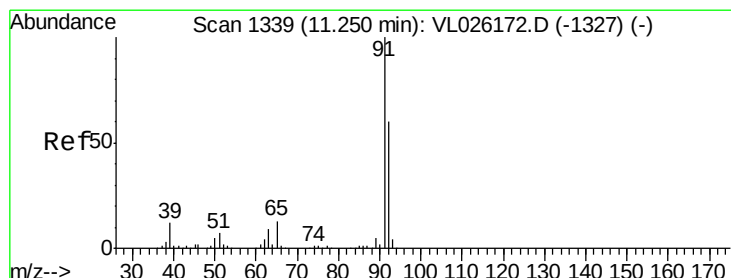
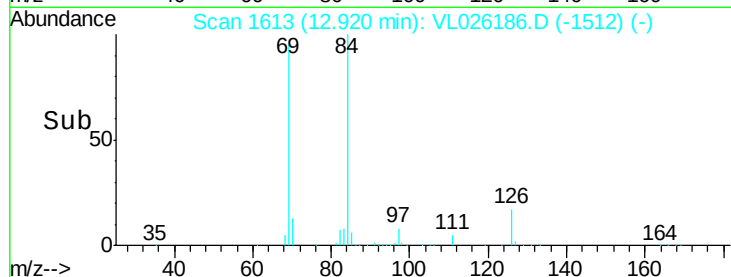
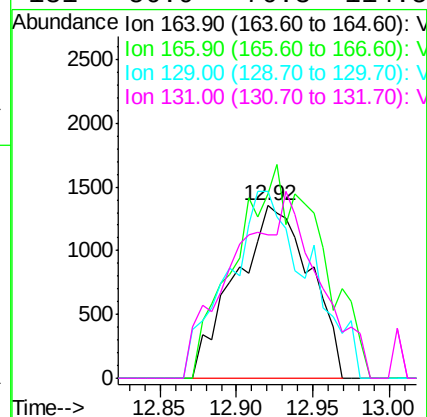
Ion Ratio Lower Upper

164 100

166 106.7 99.9 149.9

129 82.1 79.1 118.7

131 56.9 76.3 114.5#



#53

Toluene

Concen: 252.55 ppbv

RT: 11.37 min Scan# 1359

Delta R.T. 0.12 min

Lab File: VL026186.D

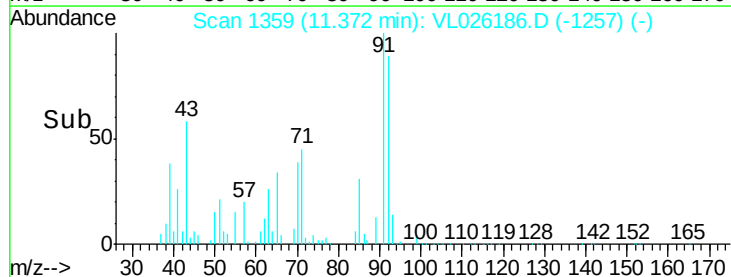
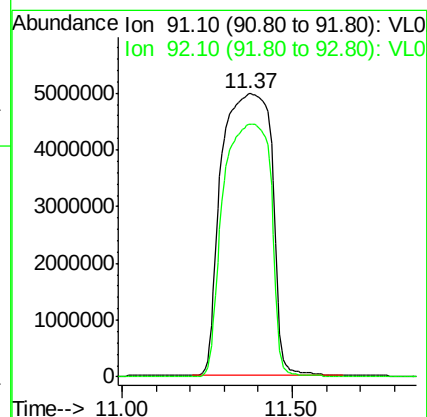
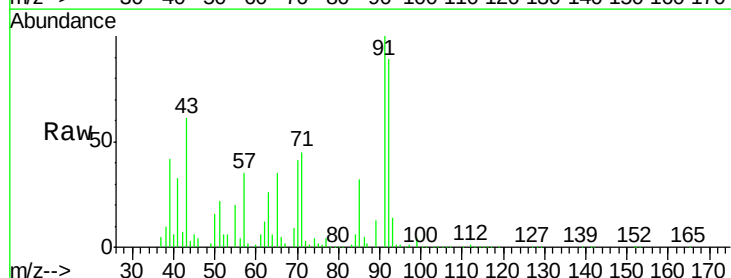
Acq: 9 Oct 2015 21:35

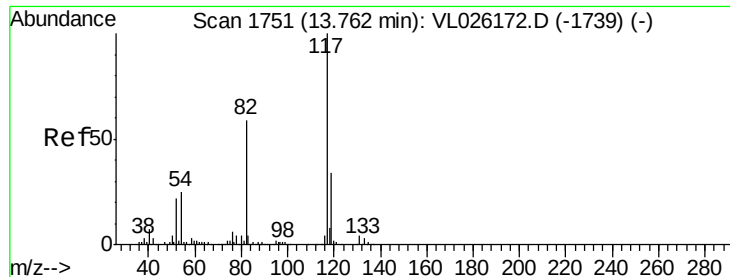
Tgt Ion: 91 Resp:50971675

Ion Ratio Lower Upper

91 100

92 84.8 48.5 72.7#

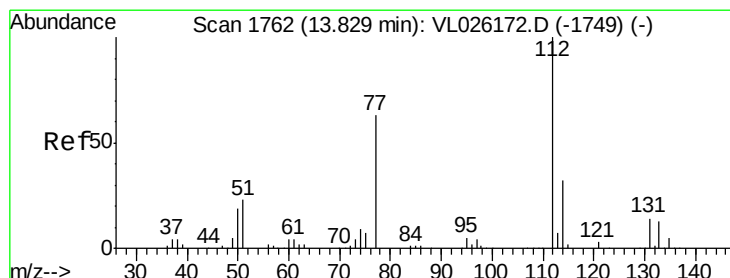
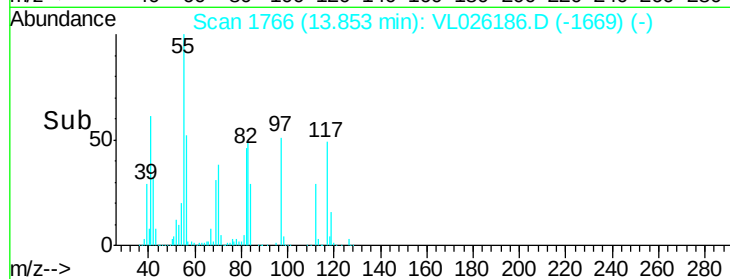
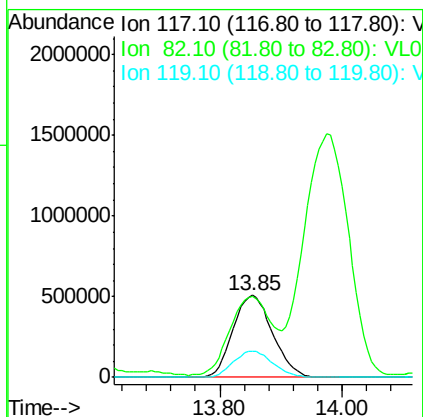
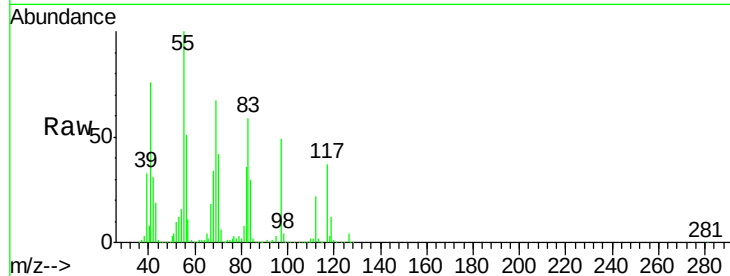




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.85 min Scan# 1766
Delta R.T. 0.09 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

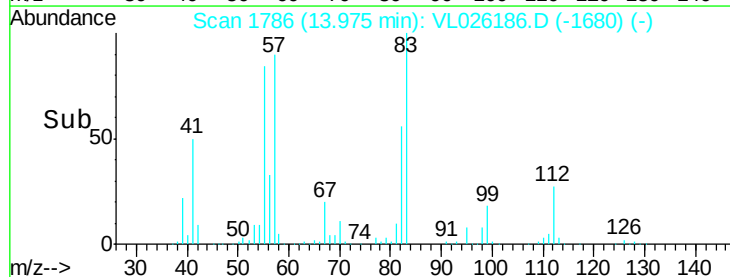
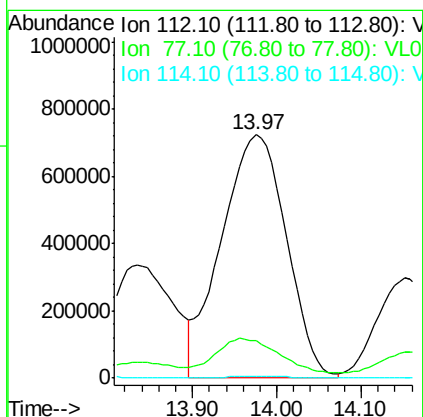
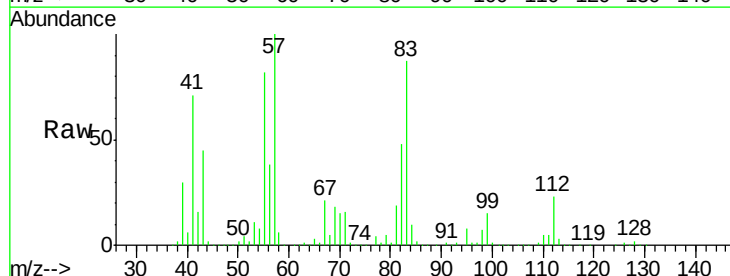
Instrument :
MSVOA_L
ClientSampleId :

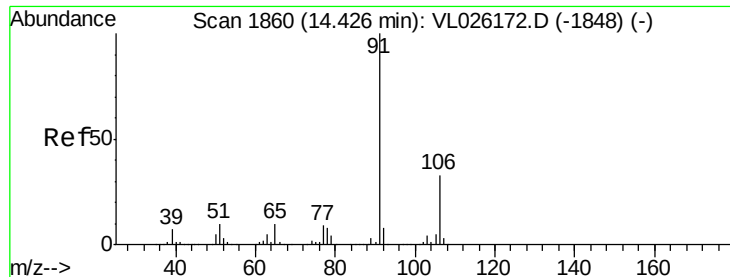
Tot Ion:117 Resp: 2273376
Ion Ratio Lower Upper
117 100
82 102.5 47.7 71.5#
119 32.1 43.7 65.5#



#57
Chlorobenzene
Concen: 18.49 ppbv
RT: 13.97 min Scan# 1786
Delta R.T. 0.15 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion:112 Resp: 3794253
Ion Ratio Lower Upper
112 100
77 13.6 51.0 76.4#
114 0.5 29.0 35.4#





#58

Ethyl Benzene

Concen: 86.85 ppbv

RT: 14.54 min Scan# 1879

Delta R.T. 0.12 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

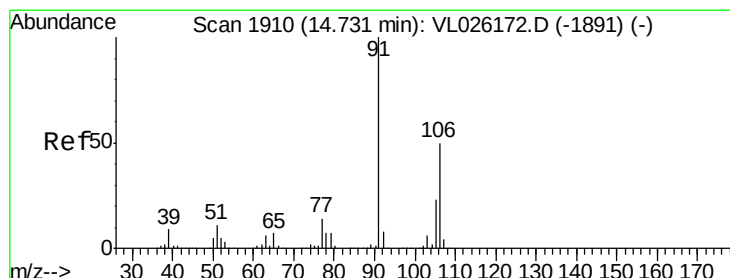
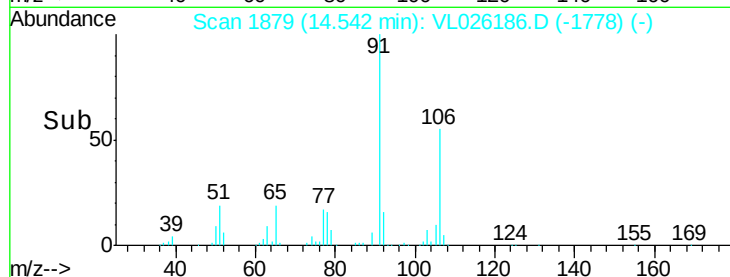
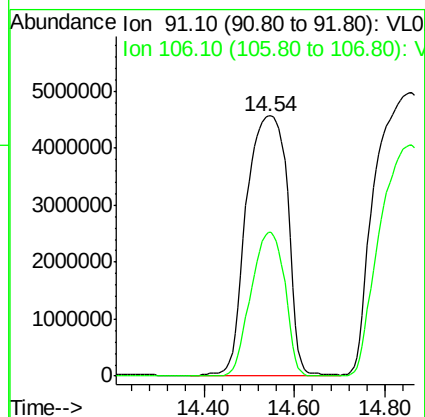
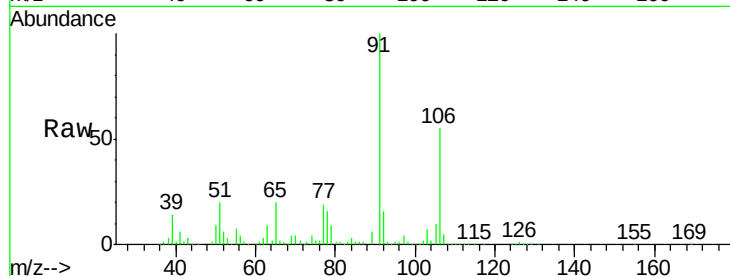
ClientSampleId :

Tot Ion: 91 Resp:28680659

Ion Ratio Lower Upper

91 100

106 55.2 26.1 39.1#



#59

m/p-Xylene

Concen: 150.01 ppbv

RT: 14.85 min Scan# 1930

Delta R.T. 0.12 min

Lab File: VL026186.D

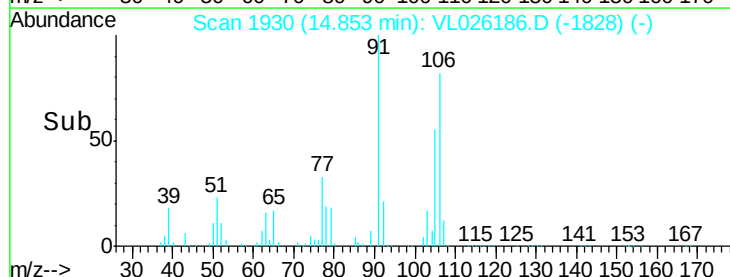
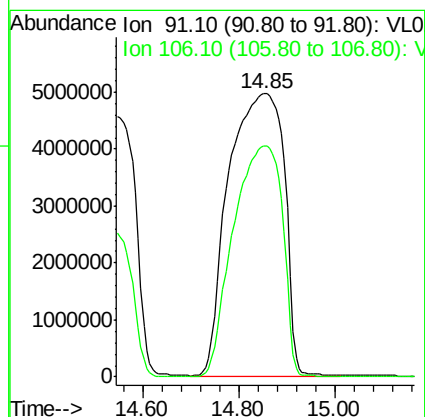
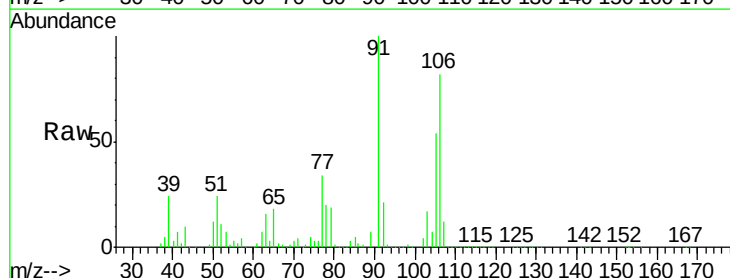
Acq: 9 Oct 2015 21:35

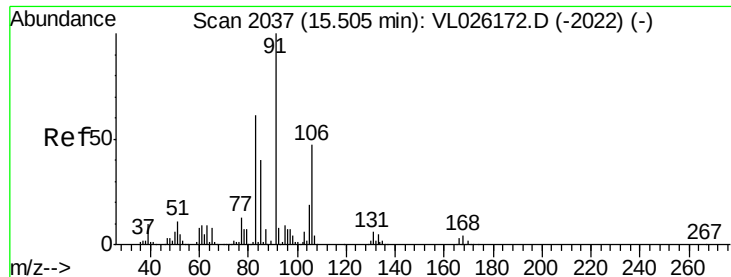
Tgt Ion: 91 Resp:39751949

Ion Ratio Lower Upper

91 100

106 72.6 40.2 60.4#

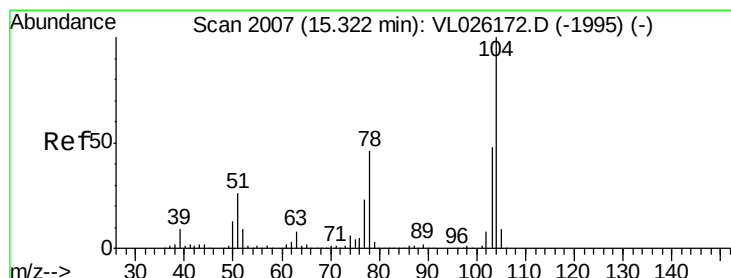
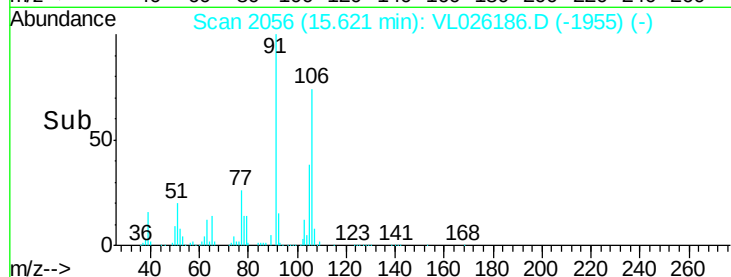
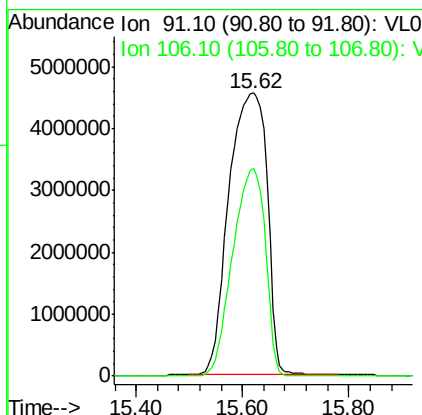
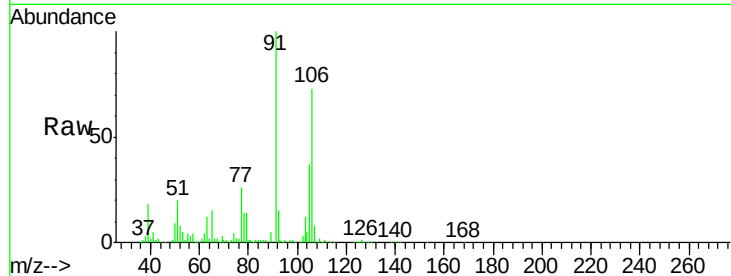




#60
o-Xylene
Concen: 81.76 ppbv
RT: 15.62 min Scan# 2056
Delta R.T. 0.12 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

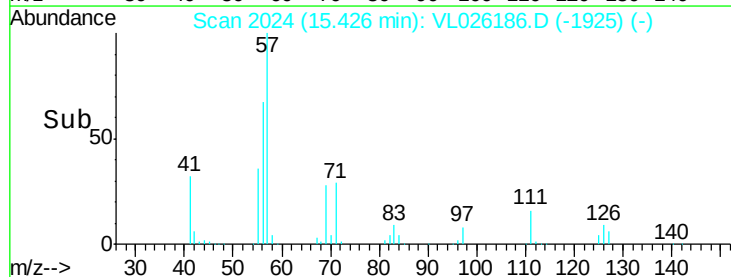
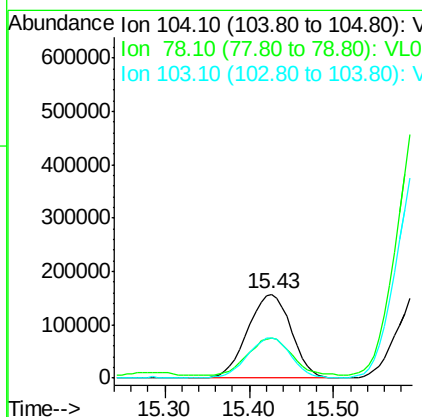
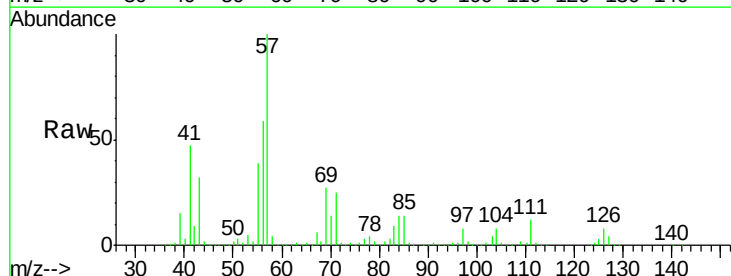
Instrument :
MSVOA_L
ClientSampled :

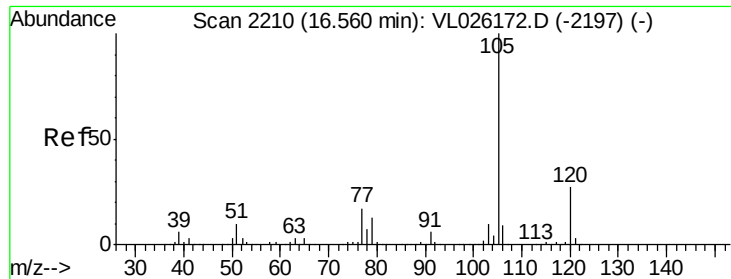
Tot Ion: 91 Resp: 22704393
Ion Ratio Lower Upper
91 100
106 63.0 23.4 70.3



#61
Styrene
Concen: 4.86 ppbv
RT: 15.43 min Scan# 2024
Delta R.T. 0.10 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 104 Resp: 552444
Ion Ratio Lower Upper
104 100
78 44.7 36.1 54.1
103 47.0 37.5 56.3





#62

Isopropylbenzene

Concen: 11.74 ppbv

RT: 16.63 min Scan# 2222

Delta R.T. 0.07 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

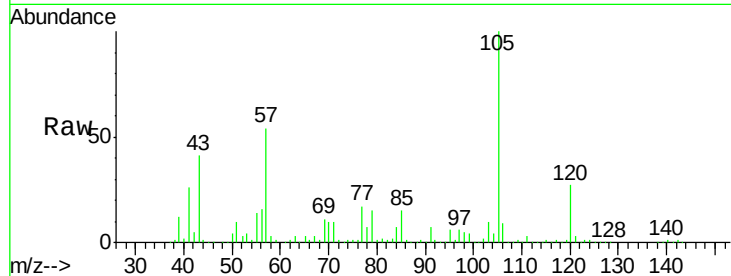
ClientSampled :

Tot Ion:105 Resp: 4298837

Ion Ratio Lower Upper

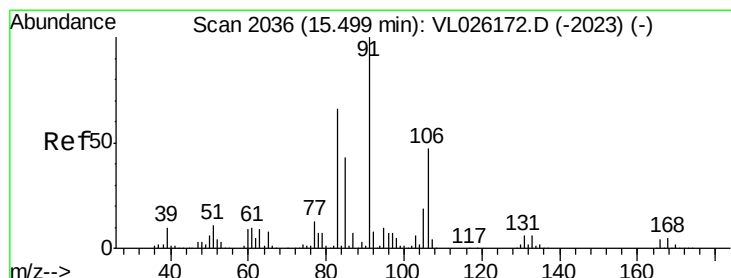
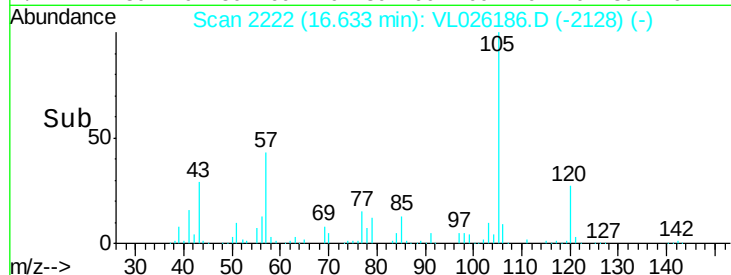
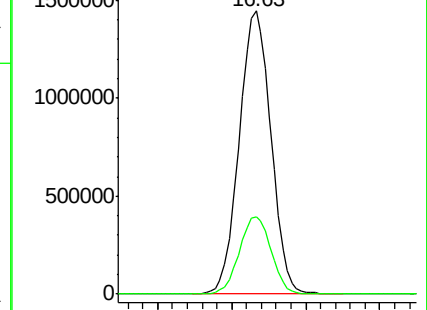
105 100

120 27.7 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 1.82 ppbv

RT: 15.58 min Scan# 2049

Delta R.T. 0.08 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

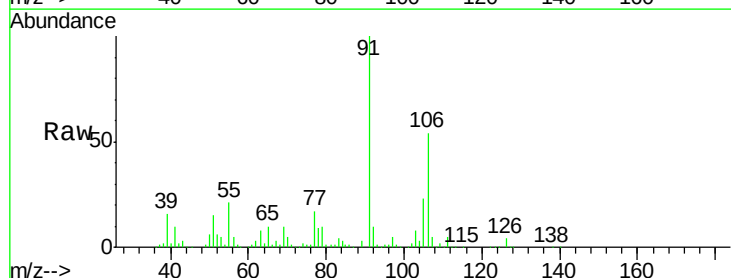
Tgt Ion: 83 Resp: 376450

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.7#

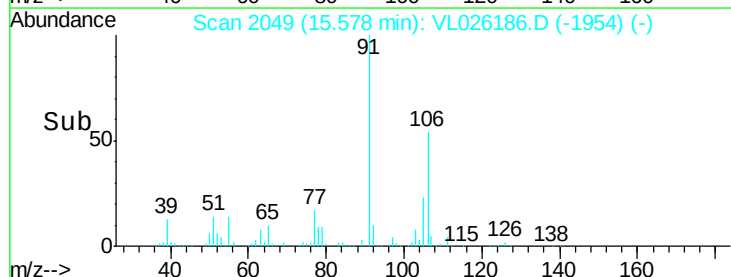
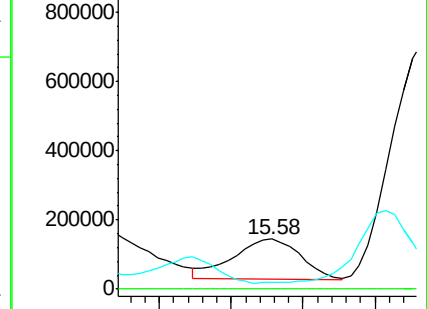
85 51.8 32.6 97.7

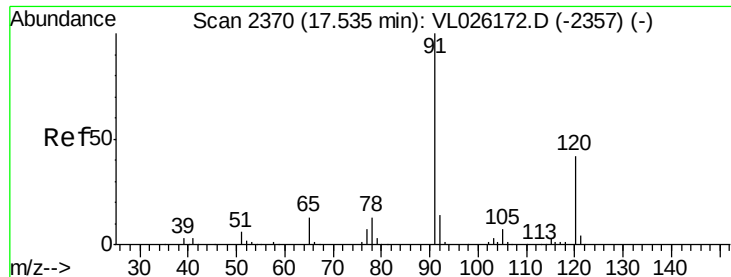


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 17.69 ppbv

RT: 17.60 min Scan# 2380

Delta R.T. 0.06 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

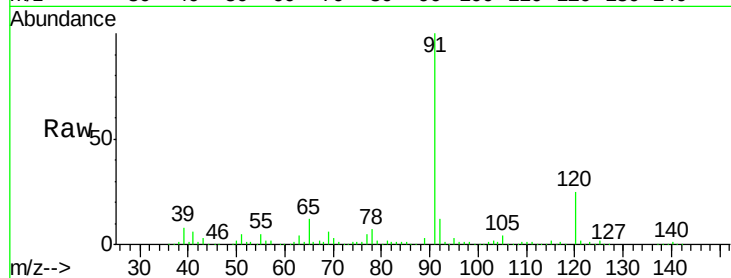
ClientSampled :

Tot Ion:120 Resp: 1743825

Ion Ratio Lower Upper

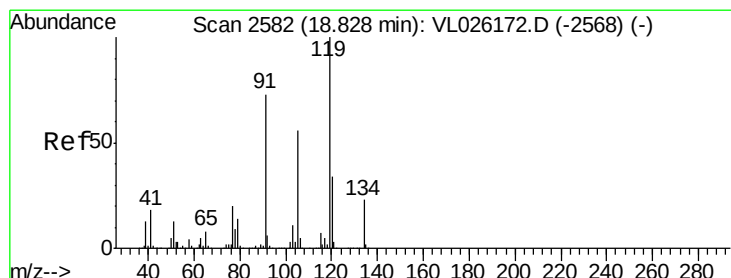
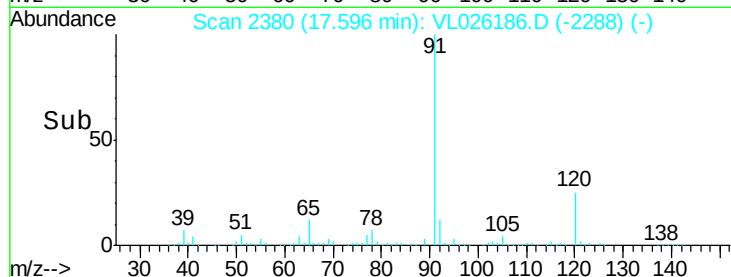
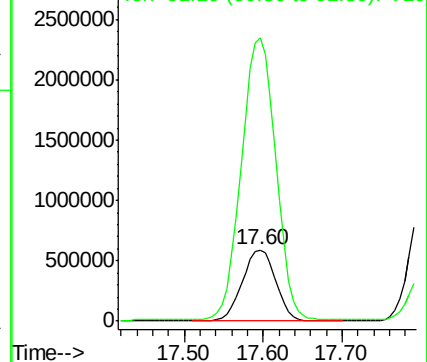
120 100

91 408.2 353.4 530.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 2.57 ppbv

RT: 18.89 min Scan# 2592

Delta R.T. 0.06 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

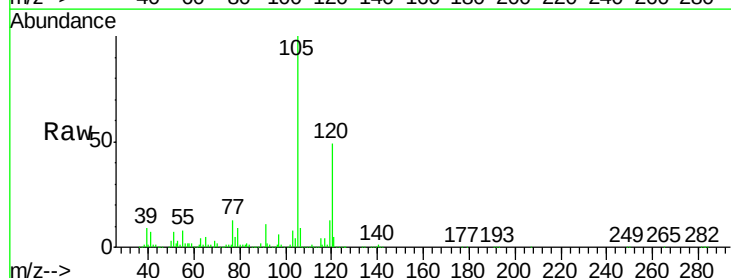
Tgt Ion:119 Resp: 829030

Ion Ratio Lower Upper

119 100

91 75.5 58.5 87.7

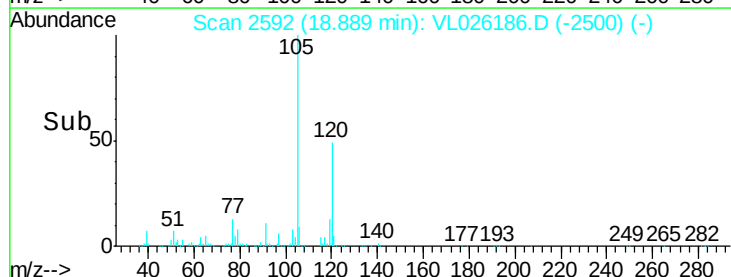
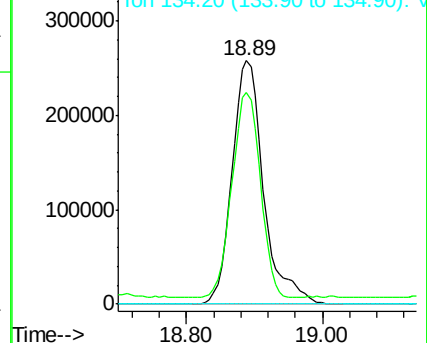
134 0.3 18.0 27.0#

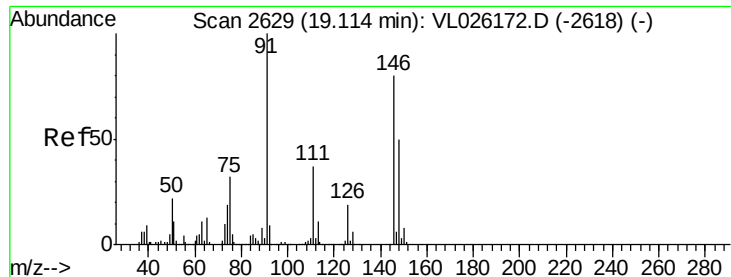


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

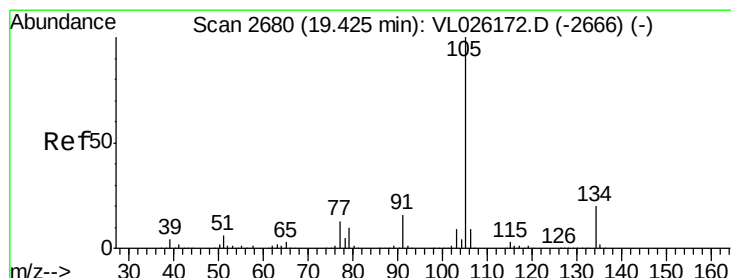
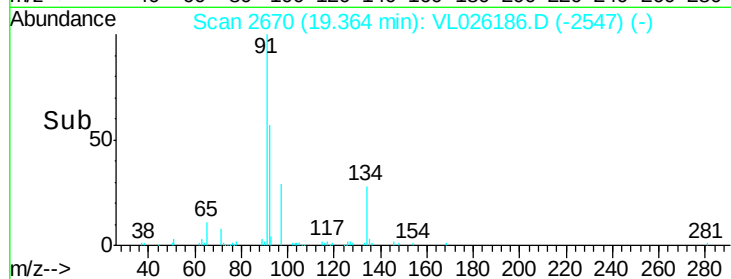
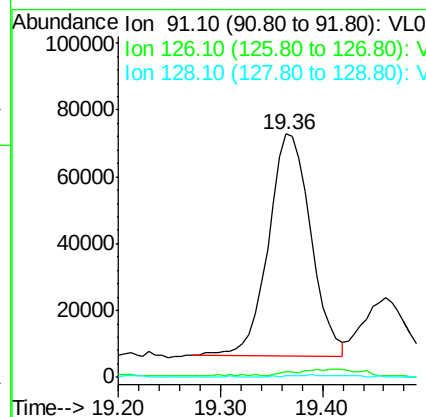
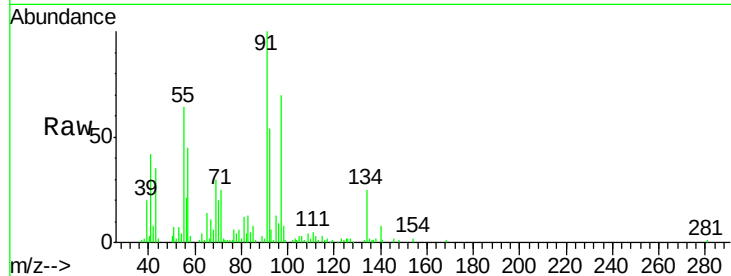




#66
Benzyl Chloride
Concen: 1.99 ppbv
RT: 19.36 min Scan# 2670
Delta R.T. 0.25 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

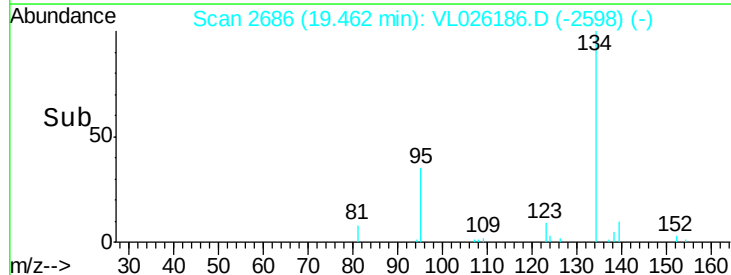
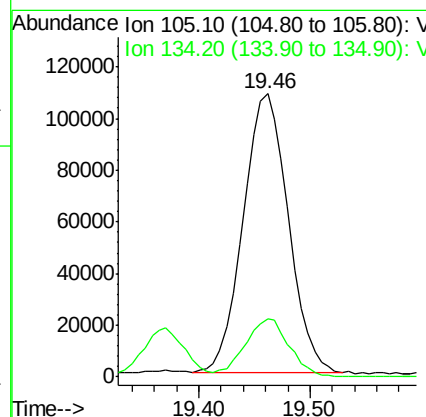
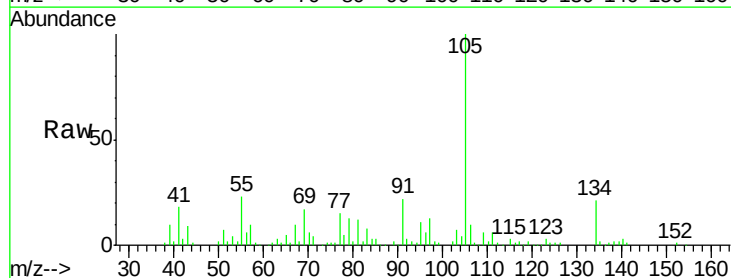
Instrument :
MSVOA_L
ClientSampled :

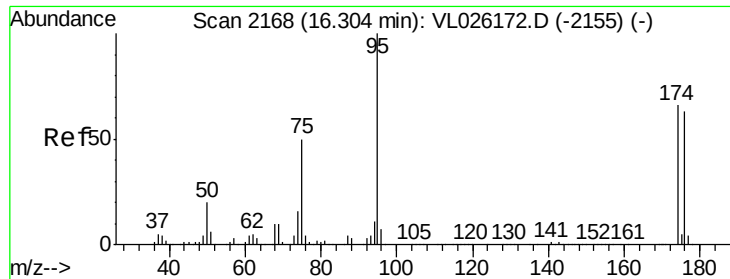
Tot Ion: 91 Resp: 190854
Ion Ratio Lower Upper
91 100
126 5.8 15.2 22.8#
128 1.4 4.8 7.2#



#67
sec-Butylbenzene
Concen: 0.68 ppbv
RT: 19.46 min Scan# 2686
Delta R.T. 0.04 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion: 105 Resp: 304610
Ion Ratio Lower Upper
105 100
134 20.1 15.9 23.9





#68

1-Bromo-4-Fluorobenzene

Concen: 21.38 ppbv

RT: 16.38 min Scan# 2181

Delta R.T. 0.08 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

ClientSampleId :

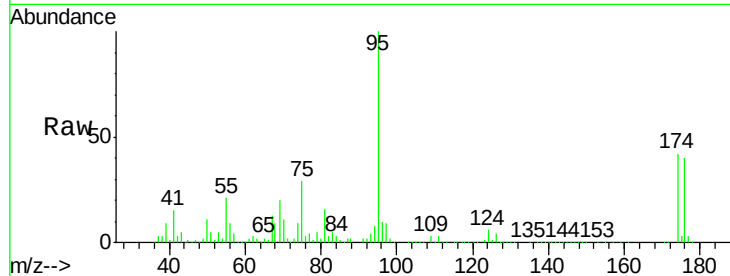
Tot Ion: 95 Resp: 3731307

Ion Ratio Lower Upper

95 100

174 39.9 52.2 78.4#

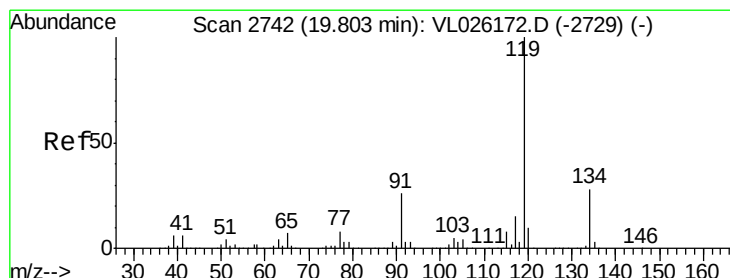
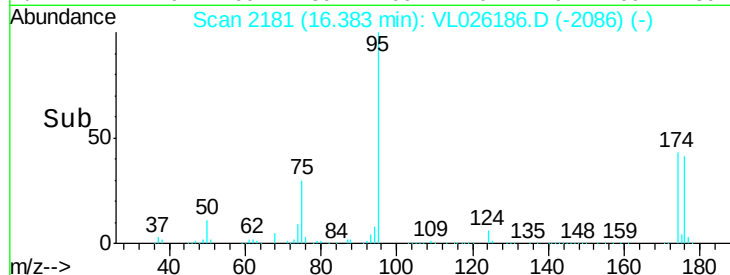
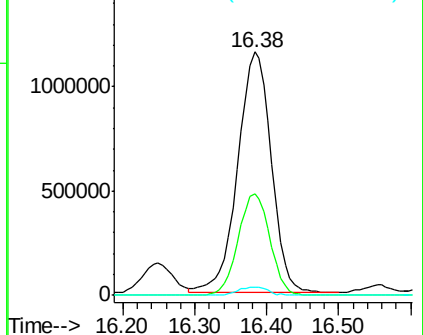
175 3.1 3.9 5.9#



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



#69

p-Isopropyltoluene

Concen: 0.65 ppbv

RT: 19.71 min Scan# 2726

Delta R.T. -0.10 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

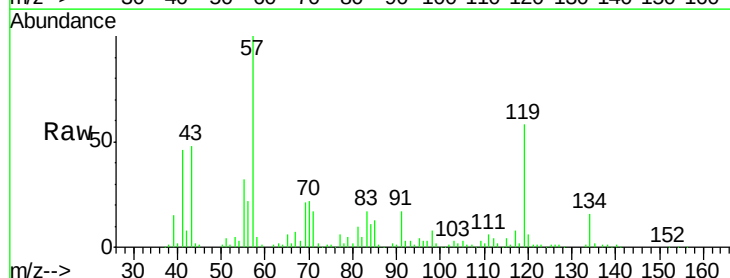
Tgt Ion: 119 Resp: 235831

Ion Ratio Lower Upper

119 100

134 28.1 21.4 32.0

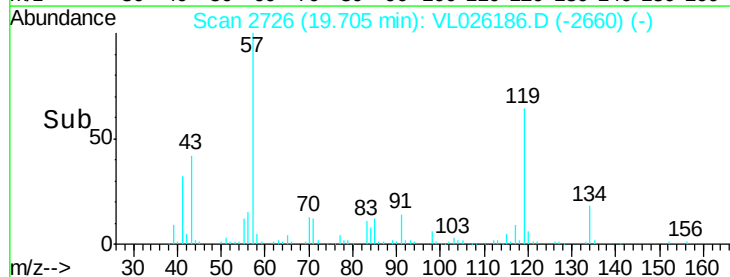
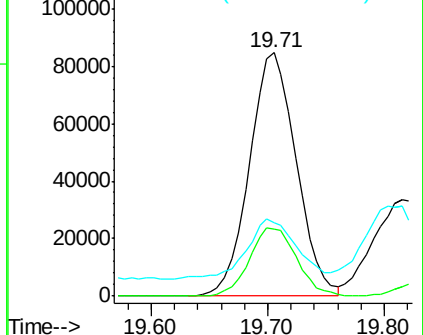
91 26.7 19.9 29.9

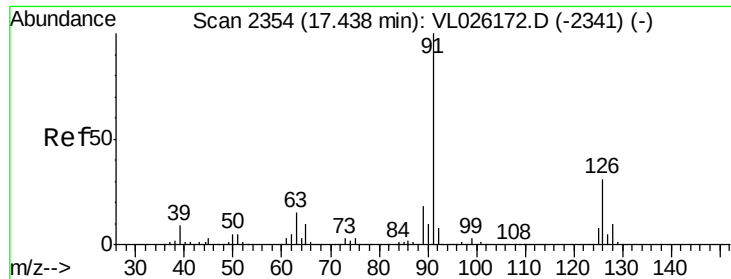


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#71

2-Chlorotoluene

Concen: 26.43 ppbv

RT: 17.60 min Scan# 2380

Delta R.T. 0.16 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

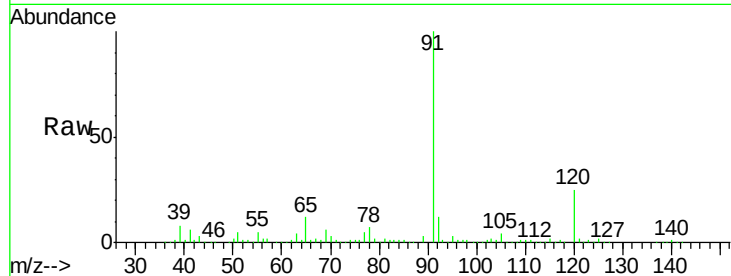
ClientSampleId :

Tot Ion: 91 Resp: 7067525

Ion Ratio Lower Upper

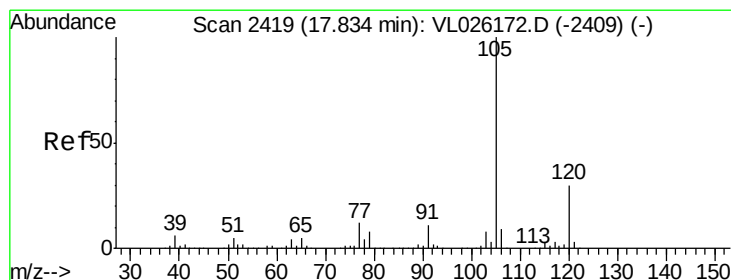
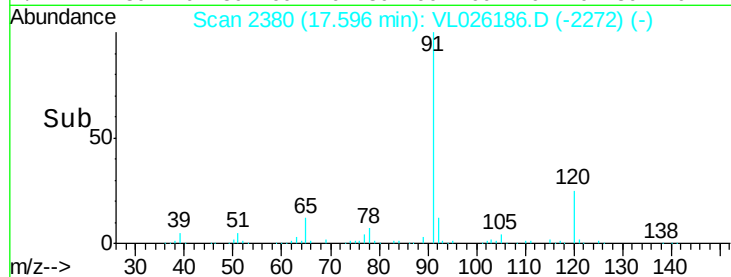
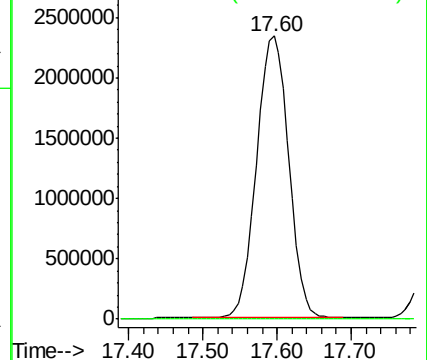
91 100

126 0.3 12.8 51.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 15.47 ppbv

RT: 17.89 min Scan# 2428

Delta R.T. 0.05 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Tgt Ion:105 Resp: 4583823

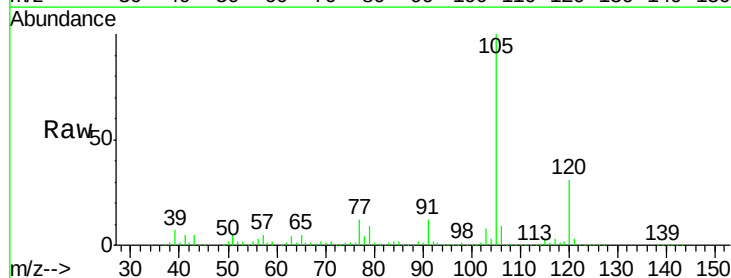
Ion Ratio Lower Upper

105 100

120 27.1 24.7 37.1

91 9.1 9.2 13.8#

77 9.8 9.8 14.8#

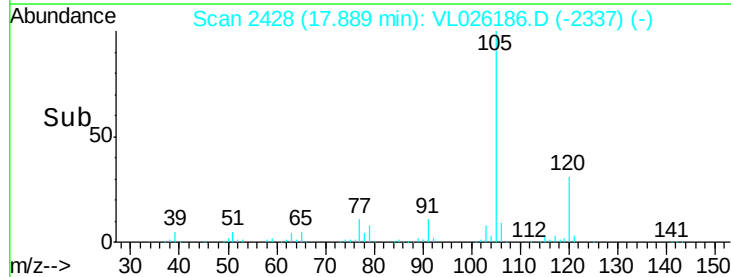
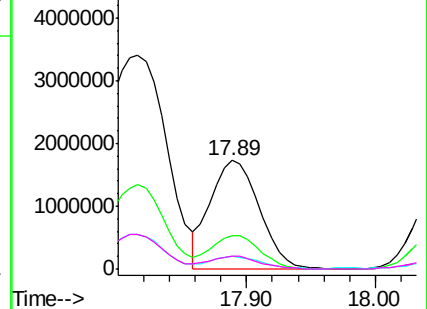


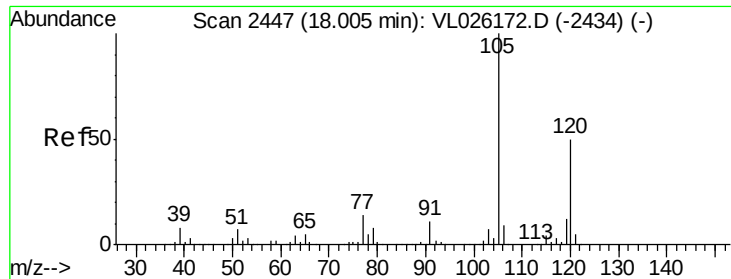
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 15.63 ppbv

RT: 18.05 min Scan# 2455

Delta R.T. 0.05 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Instrument :

MSVOA_L

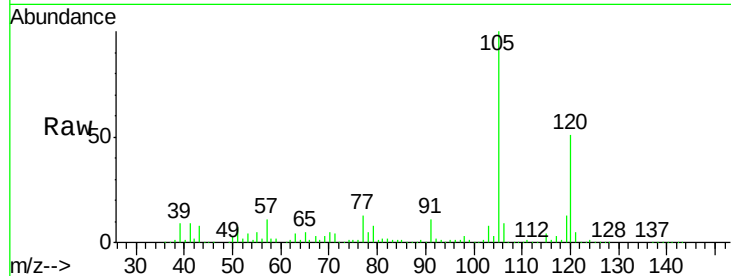
ClientSampled :

Tot Ion:105 Resp: 4353036

Ion Ratio Lower Upper

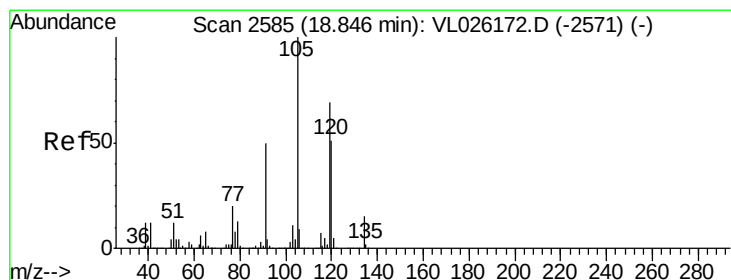
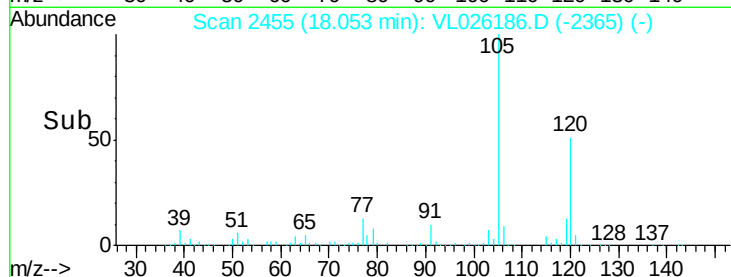
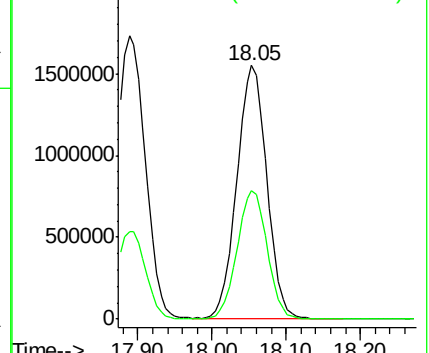
105 100

120 50.8 40.1 60.1



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: 20.47 ppbv

RT: 18.89 min Scan# 2592

Delta R.T. 0.04 min

Lab File: VL026186.D

Acq: 9 Oct 2015 21:35

Tgt Ion:105 Resp: 5977982

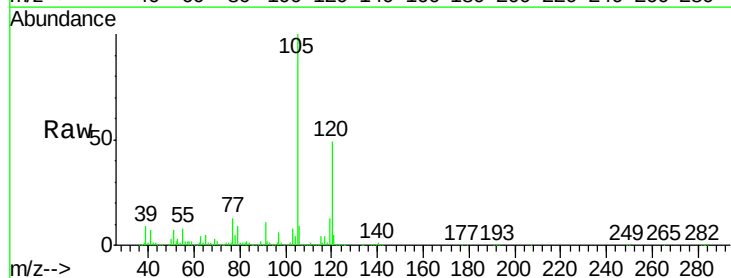
Ion Ratio Lower Upper

105 100

120 49.0 41.1 61.7

91 10.7 39.8 59.6#

77 13.2 16.3 24.5#

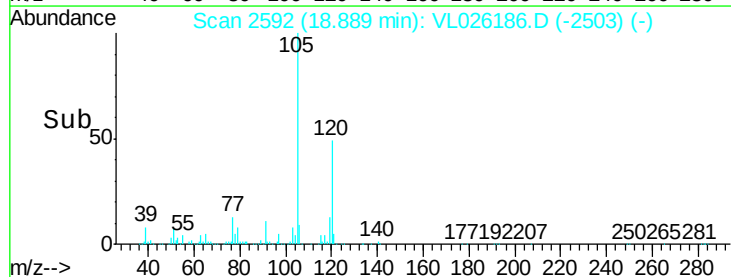
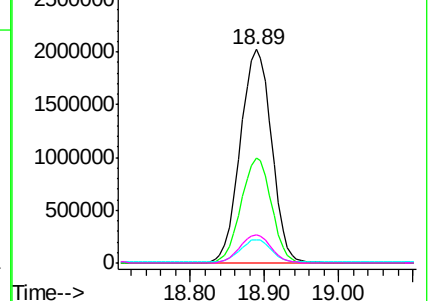


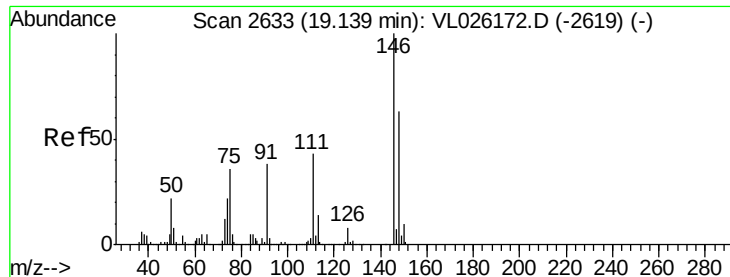
Abundance Ion 105.10 (104.80 to 105.80): V

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

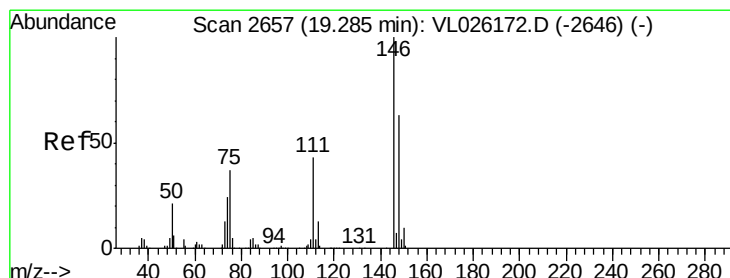
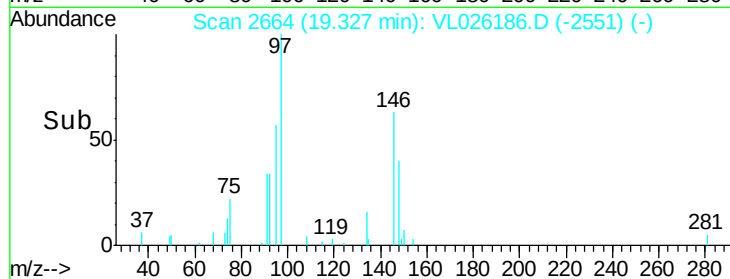
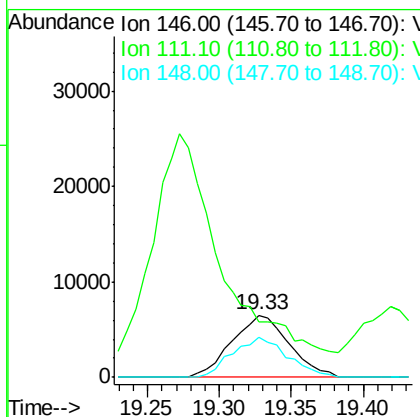
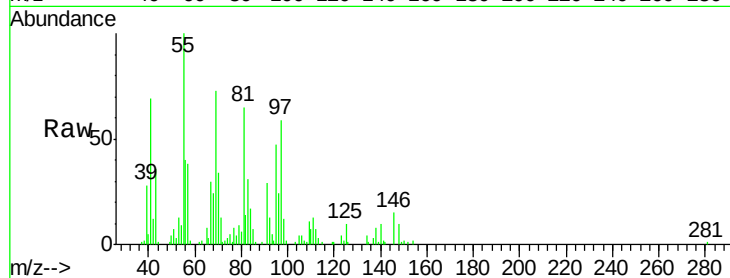




#75
 1,3-Dichlorobenzene
 Concen: 0.10 ppbv
 RT: 19.33 min Scan# 2664
 Delta R.T. 0.19 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

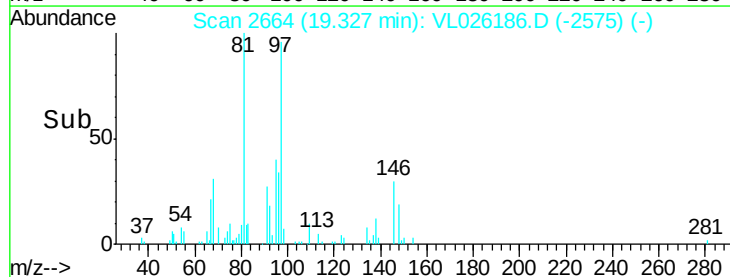
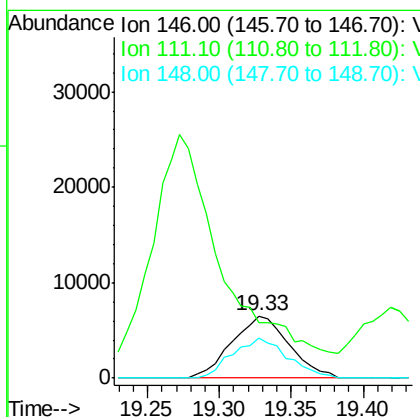
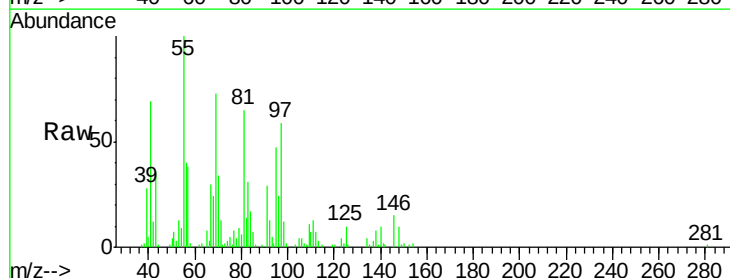
Instrument :
 MSVOA_L
 ClientSampleId :

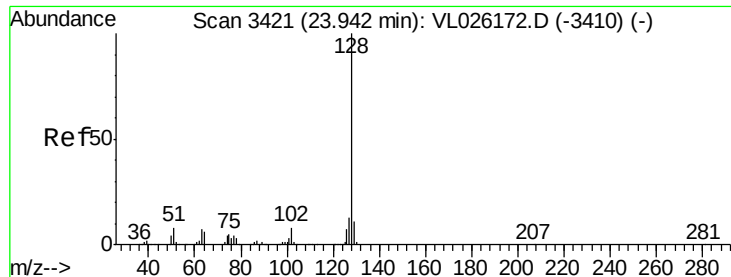
Tot Ion:146 Resp: 17949
 Ion Ratio Lower Upper
 146 100
 111 438.0 22.1 66.3#
 148 62.3 31.9 95.5



#76
 1,4-Dichlorobenzene
 Concen: 0.10 ppbv
 RT: 19.33 min Scan# 2664
 Delta R.T. 0.04 min
 Lab File: VL026186.D
 Acq: 9 Oct 2015 21:35

Tgt Ion:146 Resp: 17949
 Ion Ratio Lower Upper
 146 100
 111 438.0 21.3 63.9#
 148 62.3 31.6 94.8

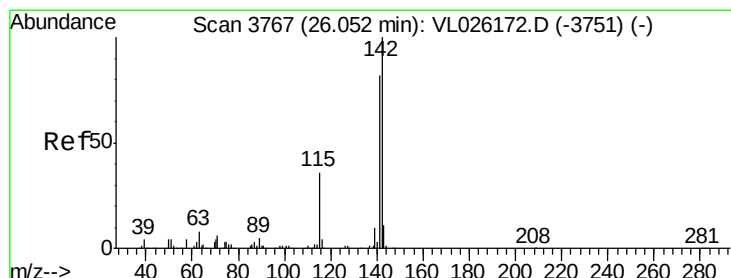
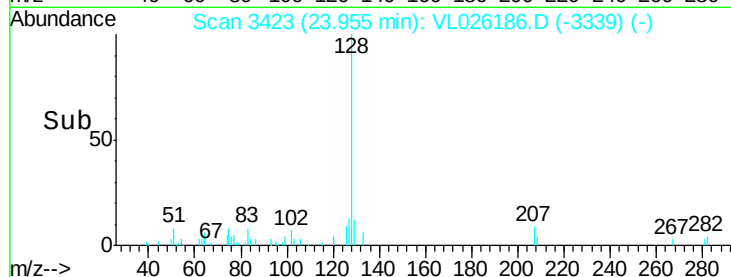
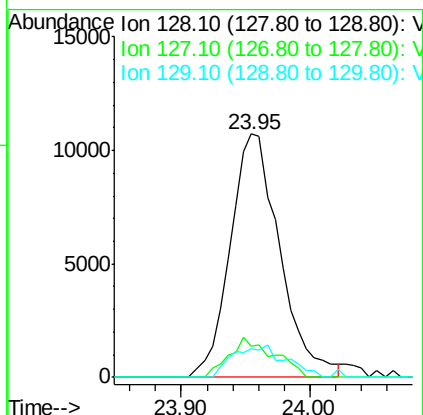
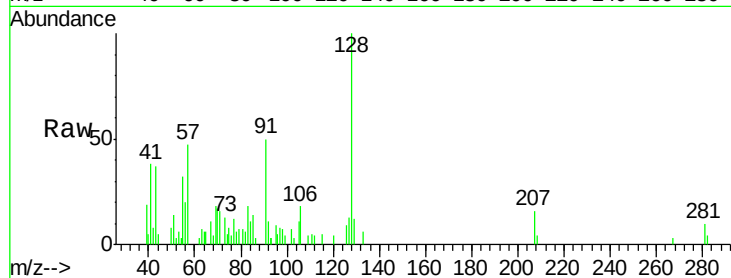




#79
Naphthalene
Concen: 0.16 ppbv
RT: 23.95 min Scan# 3423
Delta R.T. 0.01 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:128 Resp: 28663
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 11.9 8.7 13.1



#80
Naphthalene, 2-methyl-
Concen: 0.05 ppbv
RT: 26.08 min Scan# 3771
Delta R.T. 0.02 min
Lab File: VL026186.D
Acq: 9 Oct 2015 21:35

Tgt Ion:142 Resp: 2083
Ion Ratio Lower Upper
142 100
141 66.0 66.6 99.8#
115 90.4 28.4 42.6#

