

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026191.D
 Acq On : 10 Oct 2015 00:55
 Operator : SY/MD
 Sample : G3973-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 10 02:11:21 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	308839	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	1054787	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	1035282	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.29	95	808636	10.18	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	37684	0.65	ppbv	92
3) Chlorodifluoromethane	3.57	51	136327	3.78	ppbv #	88
4) Chloromethane	3.75	50	3362	0.17	ppbv #	84
9) Propene	3.61	41	12975	0.78	ppbv #	72
10) Heptane	9.36	43	35604	0.62	ppbv	97
11) Trichlorofluoromethane	4.70	101	18843	0.33	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	5.31	101	3985	0.10	ppbv	97
13) Ethanol	4.34	45	107191	44.00	ppbv	88
15) Acetone	4.60	43	727232	18.22	ppbv #	87
16) 1,3-Butadiene	3.95	39	8033	0.44	ppbv #	12
17) tert-Butyl alcohol	5.15	59	16268	0.68	ppbv #	88
19) Isopropyl Alcohol	4.77	45	108550	6.98	ppbv #	94
20) Methylene Chloride	5.15	84	25432	1.50	ppbv	87
21) Allyl Chloride	5.17	41	5467	0.21	ppbv #	80
23) Vinyl Acetate	6.01	43	60477	0.86	ppbv #	50
25) Ethyl Acetate	6.68	43	292512	3.79	ppbv #	89
26) Hexane	6.67	57	20587	0.55	ppbv #	1
27) Carbon Disulfide	5.40	76	97630	2.18	ppbv	99
29) Chloroform	6.76	83	31100	0.56	ppbv	96
30) Cyclohexane	8.29	84	62899	1.77	ppbv	86
31) cis-1,2-Dichloroethene	6.68	61	35912	1.05	ppbv #	21
34) 2-Butanone	6.21	43	58527	1.00	ppbv	96
35) Carbon Tetrachloride	8.17	117	2647	0.04	ppbv #	80
36) Benzene	8.02	78	32161	0.32	ppbv	94
37) 1,2-Dichloroethane	7.37	62	5547	0.10	ppbv #	78
38) Trichloroethene	9.07	130	3139	0.07	ppbv #	85
39) 1,2-Dichloropropane	8.83	63	2008	0.05	ppbv #	57
41) Tetrahydrofuran	7.11	42	4131	0.12	ppbv #	36
42) Bromodichloromethane	9.02	83	2762	0.04	ppbv #	61
43) Methyl Methacrylate	9.27	69	1548	0.04	ppbv #	1
44) 2,2,4-Trimethylpentane	9.09	57	26299	0.16	ppbv #	65
50) 4-Methyl-2-Pentanone	10.09	43	222454	2.87	ppbv	99
51) 2-Hexanone	11.63	43	4494	0.06	ppbv #	88
52) Tetrachloroethene	12.80	164	27292	0.55	ppbv	95
53) Toluene	11.24	91	641897	4.94	ppbv	99
58) Ethyl Benzene	14.42	91	275090	1.83	ppbv	92
59) m/p-Xylene	14.69	91	1071743	8.88	ppbv	95
60) o-Xylene	15.50	91	315851	2.50	ppbv	95
61) Styrene	15.32	104	235656	4.56	ppbv	95
62) Isopropylbenzene	16.55	105	23575	0.14	ppbv	92
64) n-propylbenzene	17.52	120	10456	0.23	ppbv	98

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 ClientSampleId :

Quant Time: Oct 10 02:11:21 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

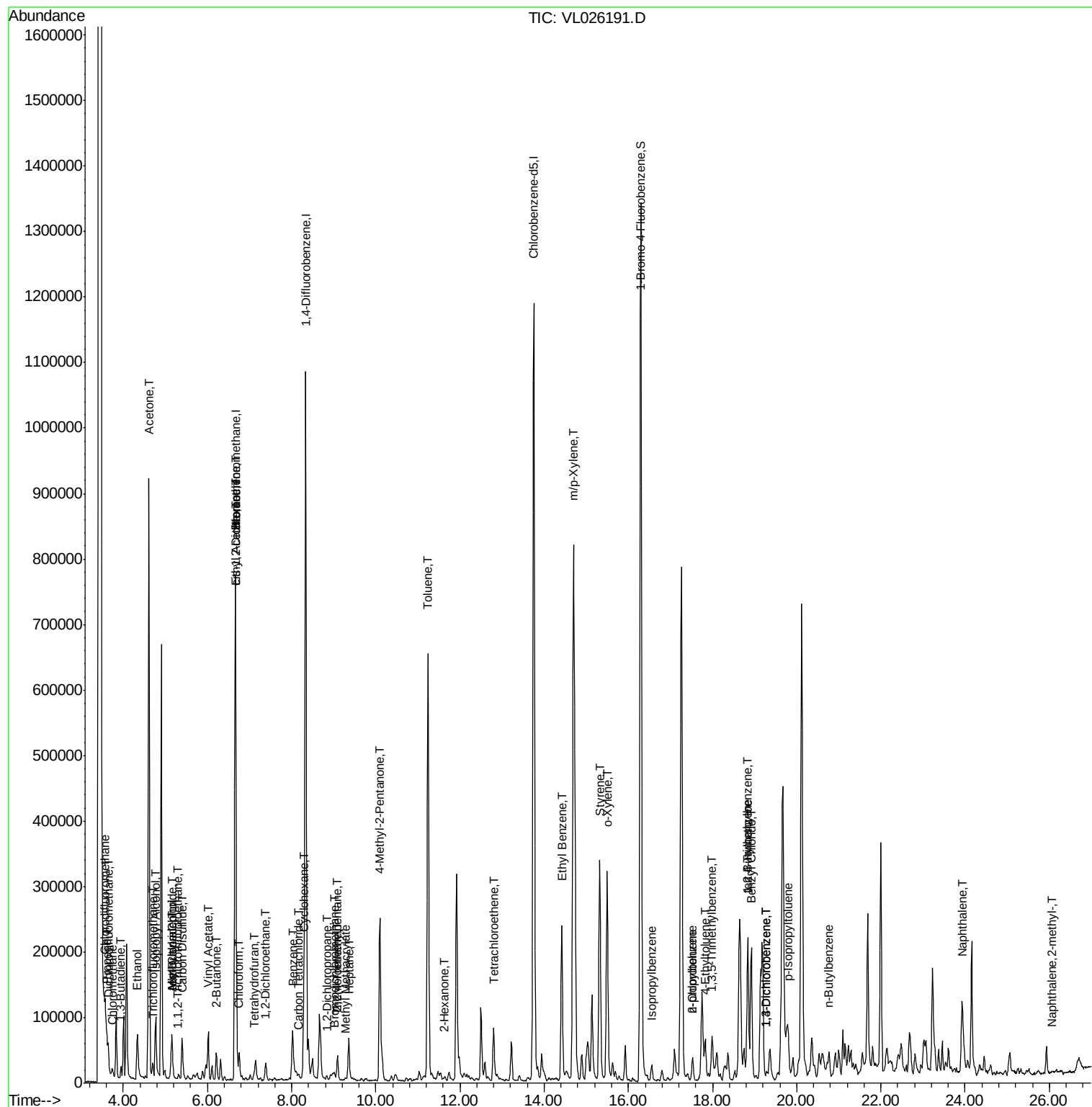
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	18.84	119	22961	0.16	ppbv #	48
66) Benzyl Chloride	18.92	91	4681	0.11	ppbv #	1
69) p-Isopropyltoluene	19.80	119	52385	0.32	ppbv #	85
70) n-Butylbenzene	20.77	91	15386	0.10	ppbv #	46
71) 2-Chlorotoluene	17.52	91	45365	0.37	ppbv #	43
72) 4-Ethyltoluene	17.83	105	59900	0.44	ppbv #	98
73) 1,3,5-Trimethylbenzene	17.99	105	55248	0.44	ppbv #	94
74) 1,2,4-Trimethylbenzene	18.84	105	201145	1.51	ppbv #	68
75) 1,3-Dichlorobenzene	19.28	146	4784	0.06	ppbv #	1
76) 1,4-Dichlorobenzene	19.28	146	4784	0.06	ppbv #	1
79) Naphthalene	23.94	128	56554	0.68	ppbv	96
80) Naphthalene,2-methyl-	26.06	142	2534	0.14	ppbv #	95

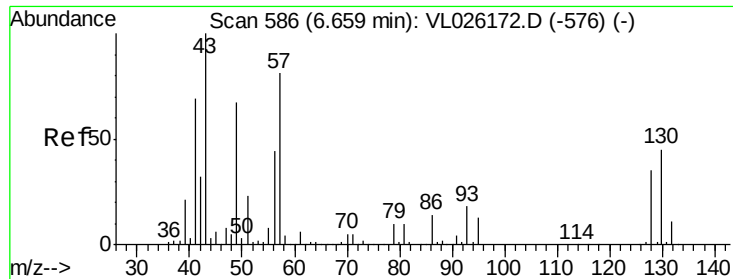
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :
MSVOA_L
ClientSampleId :

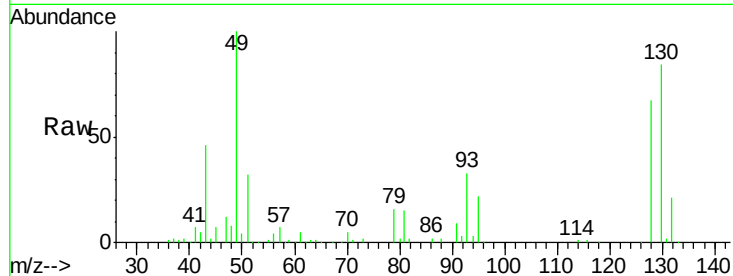
Tot Ion: 49 Resp: 308839

Ion Ratio Lower Upper

49 100

128 67.7 26.3 78.8

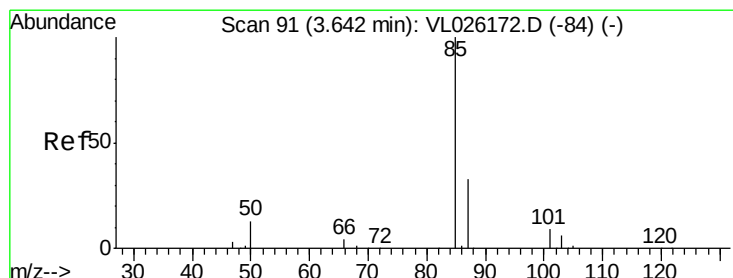
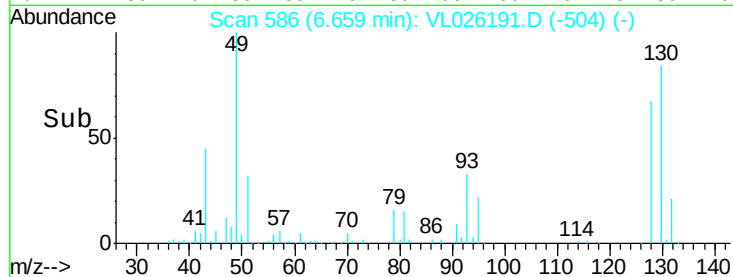
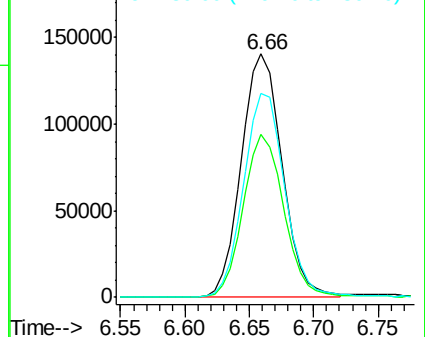
130 85.2 34.2 102.5



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: 0.65 ppbv

RT: 3.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL026191.D

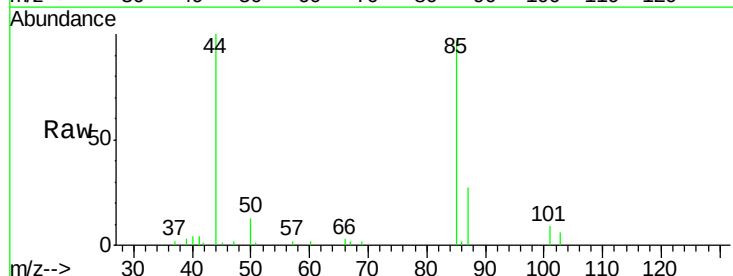
Acq: 10 Oct 2015 00:55

Tgt Ion: 85 Resp: 37684

Ion Ratio Lower Upper

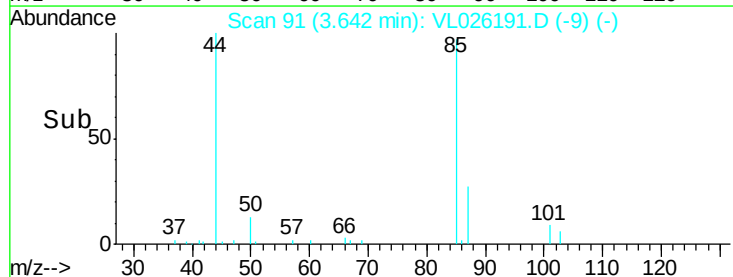
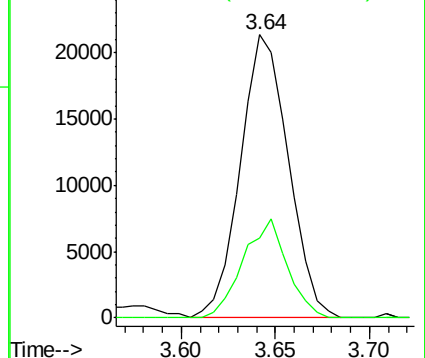
85 100

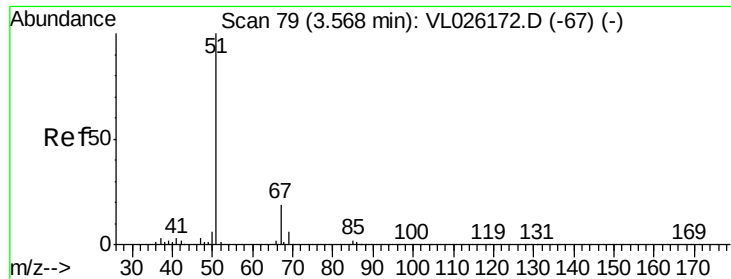
87 28.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.78 ppbv

RT: 3.57 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

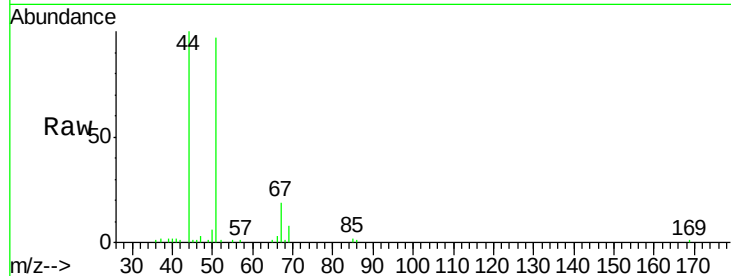
ClientSampleId :

Tot Ion: 51 Resp: 136327

Ion Ratio Lower Upper

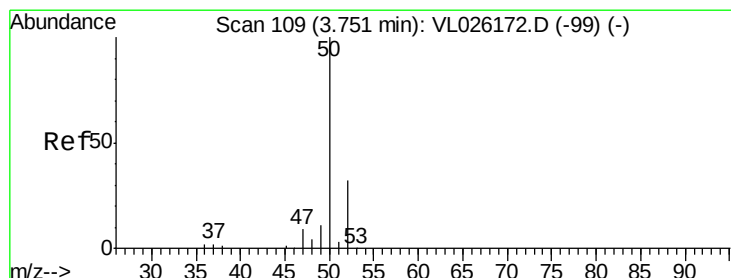
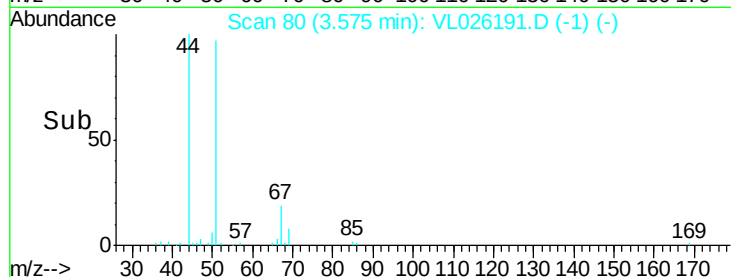
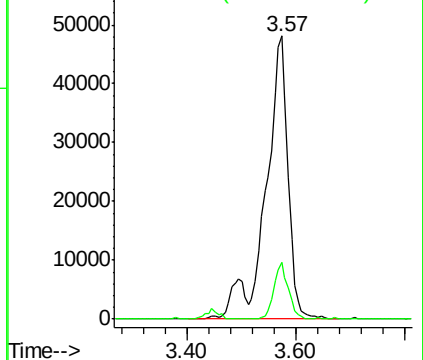
51 100

67 13.2 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: 0.17 ppbv

RT: 3.75 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL026191.D

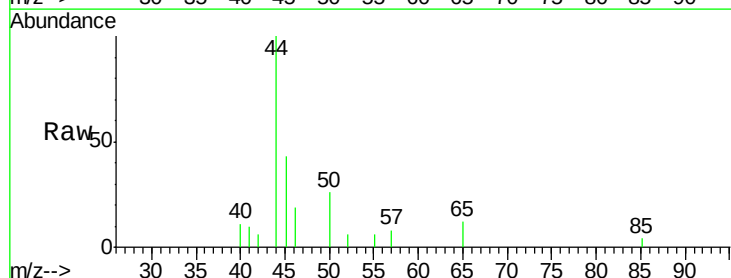
Acq: 10 Oct 2015 00:55

Tgt Ion: 50 Resp: 3362

Ion Ratio Lower Upper

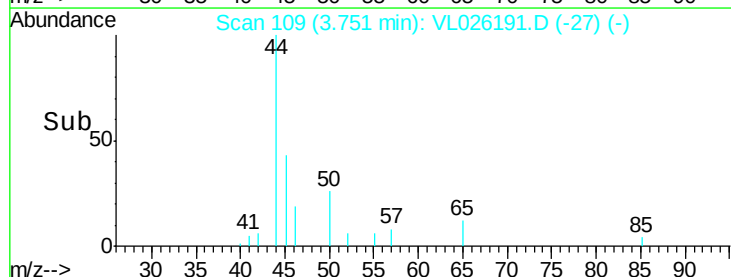
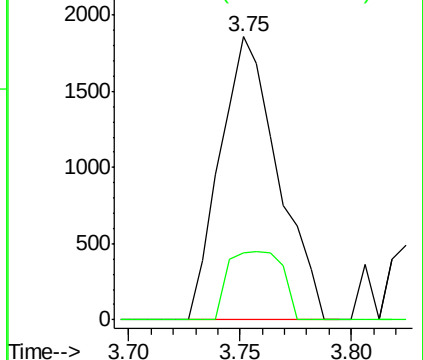
50 100

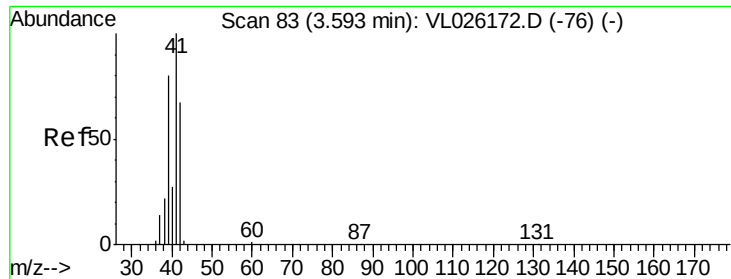
52 23.5 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.78 ppbv

RT: 3.61 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

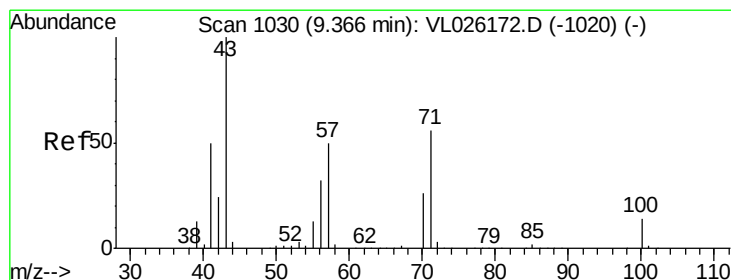
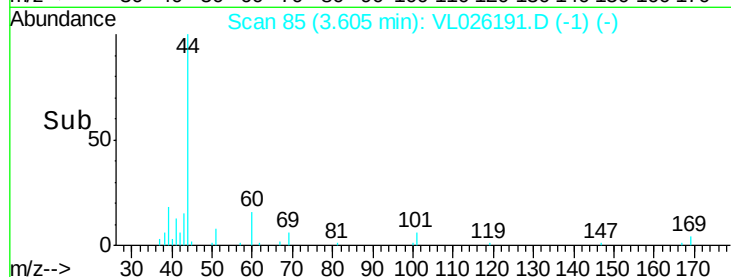
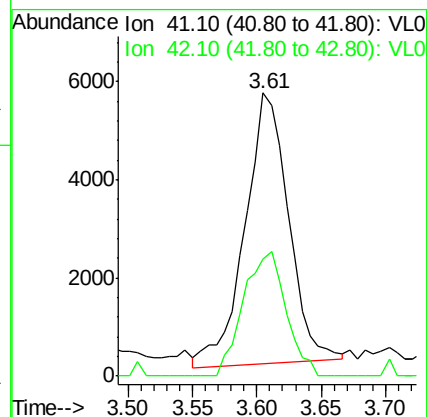
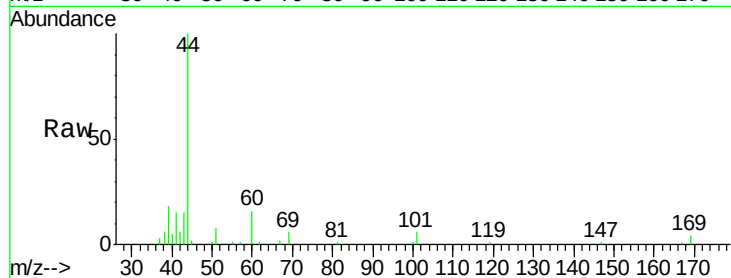
ClientSampleId :

Tot Ion: 41 Resp: 12975

Ion Ratio Lower Upper

41 100

42 44.8 53.6 80.4#



#10

Heptane

Concen: 0.62 ppbv

RT: 9.36 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VL026191.D

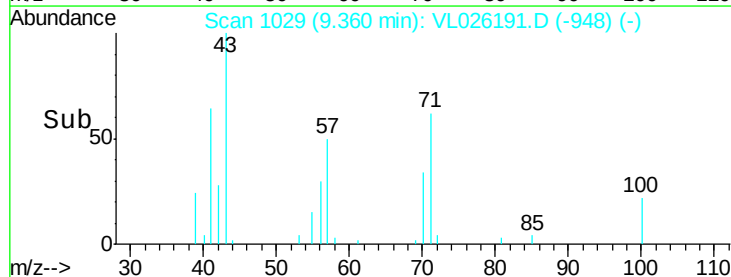
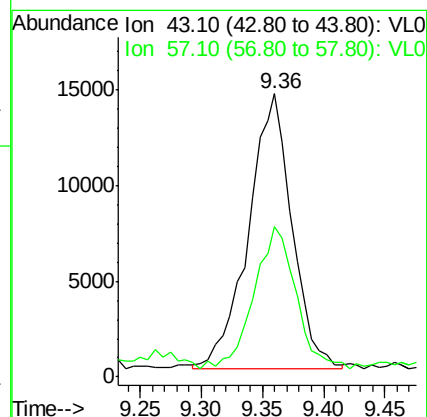
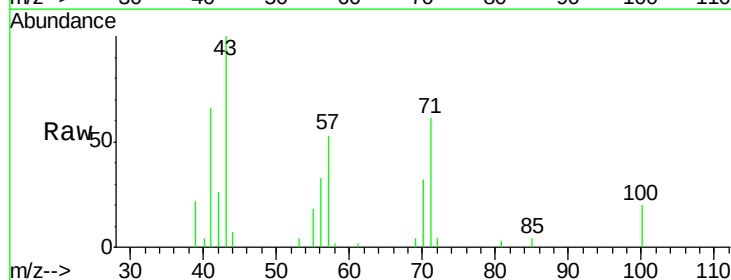
Acq: 10 Oct 2015 00:55

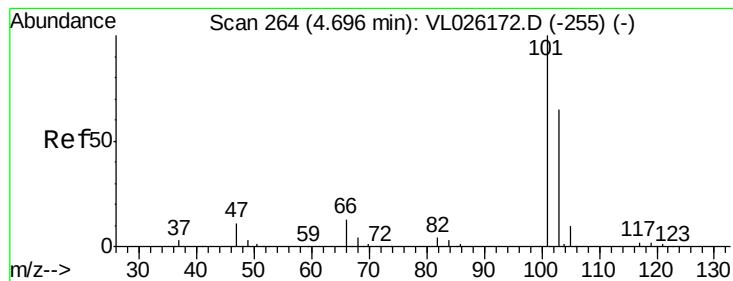
Tgt Ion: 43 Resp: 35604

Ion Ratio Lower Upper

43 100

57 50.2 41.8 62.8





#11

Trichlorofluoromethane

Concen: 0.33 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

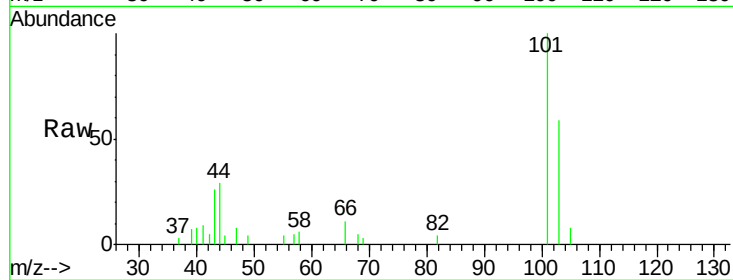
ClientSampleId :

Tot Ion:101 Resp: 18843

Ion Ratio Lower Upper

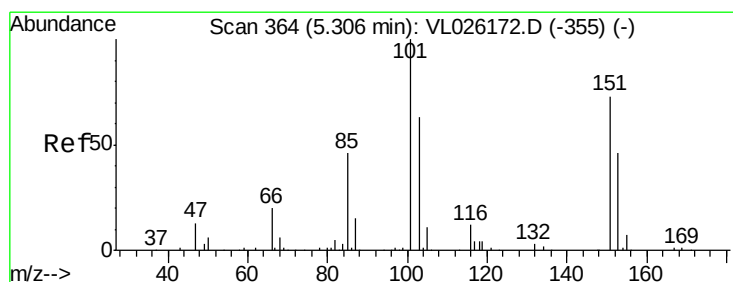
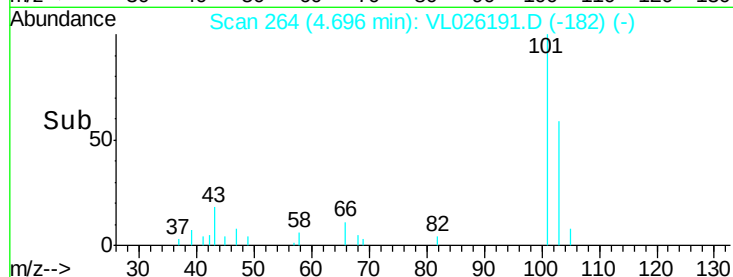
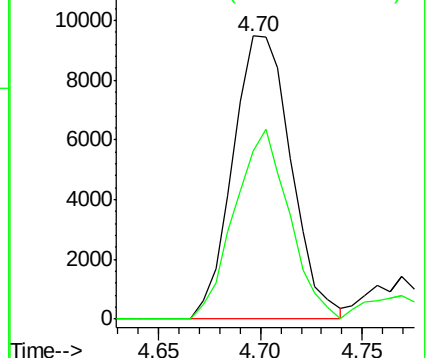
101 100

103 59.4 51.9 77.9



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: 0.10 ppbv

RT: 5.31 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL026191.D

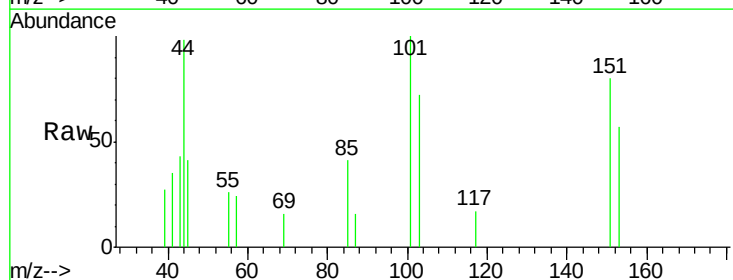
Acq: 10 Oct 2015 00:55

Tgt Ion:101 Resp: 3985

Ion Ratio Lower Upper

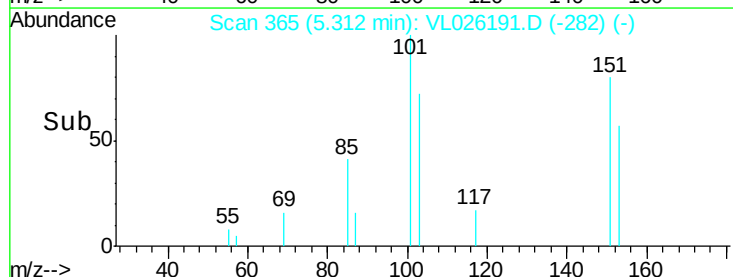
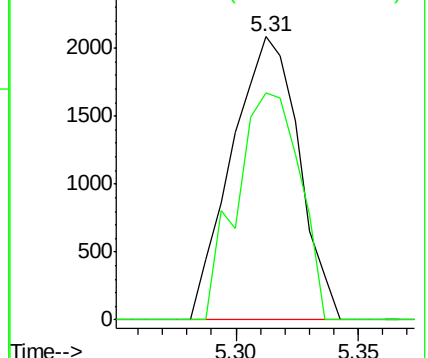
101 100

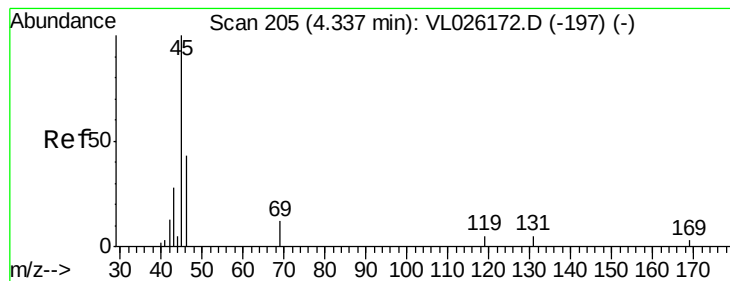
151 75.9 59.0 88.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 44.00 ppbv

RT: 4.34 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

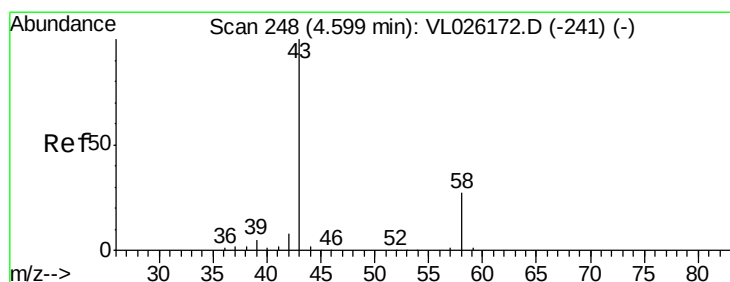
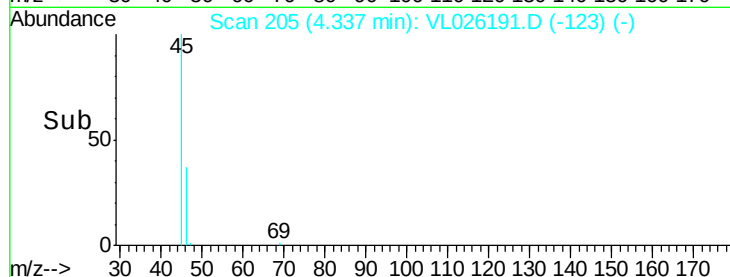
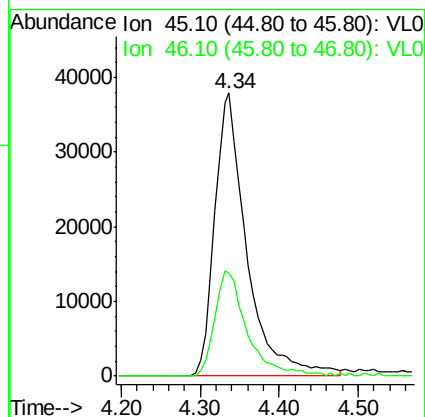
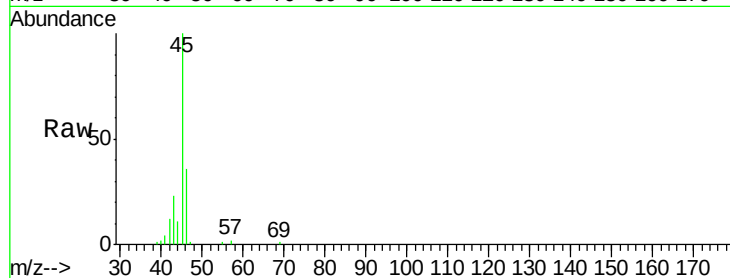
ClientSampleId :

Tot Ion: 45 Resp: 107191

Ion Ratio Lower Upper

45 100

46 37.4 18.1 72.5



#15

Acetone

Concen: 18.22 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL026191.D

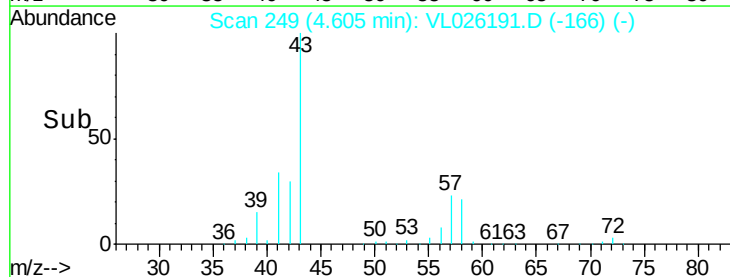
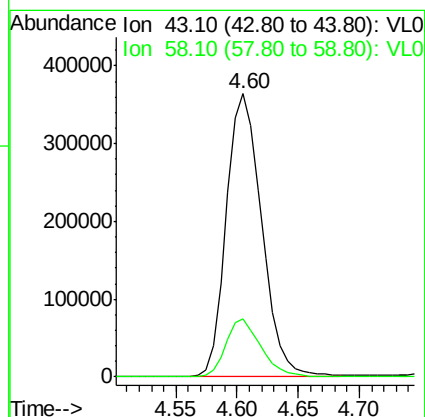
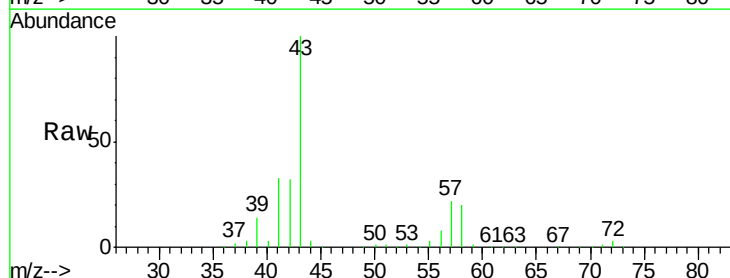
Acq: 10 Oct 2015 00:55

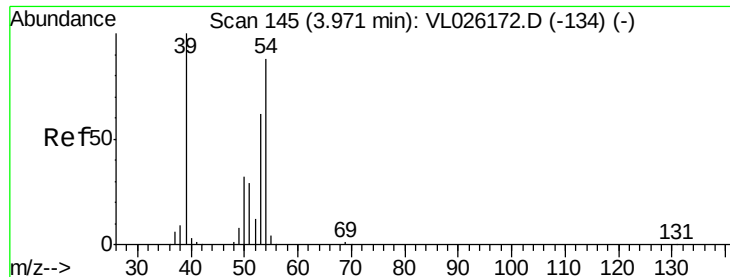
Tgt Ion: 43 Resp: 727232

Ion Ratio Lower Upper

43 100

58 20.5 22.0 33.0#

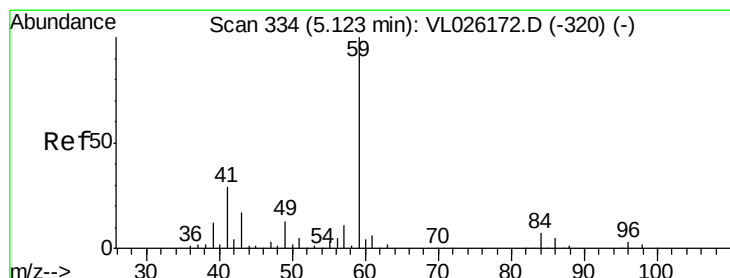
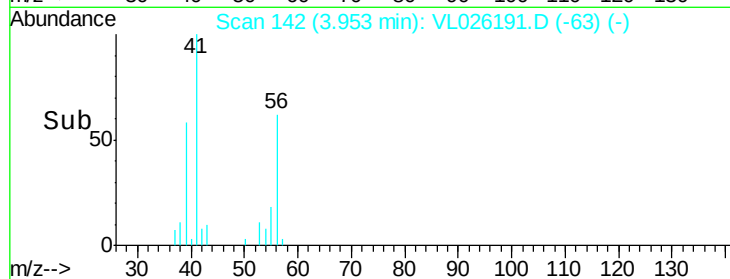
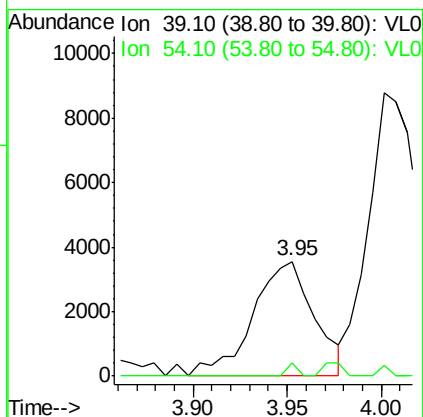
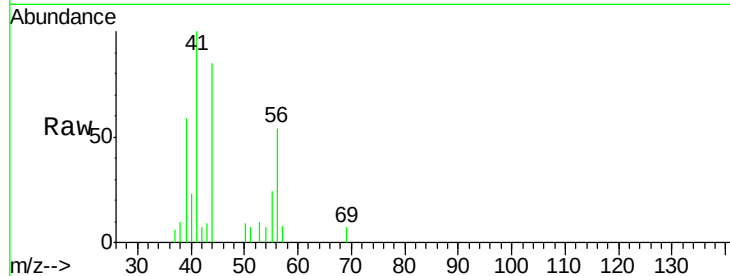




#16
1,3-Butadiene
Concen: 0.44 ppbv
RT: 3.95 min Scan# 142
Delta R.T. -0.02 min
Lab File: VL026191.D
Acq: 10 Oct 2015 00:55

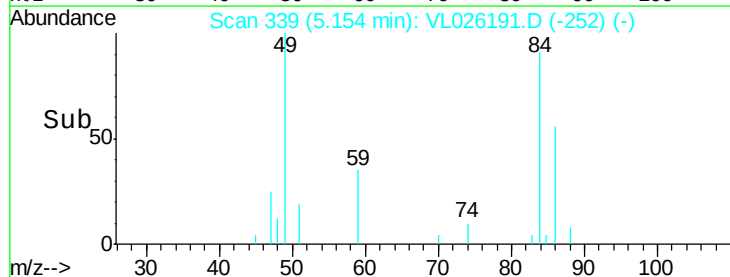
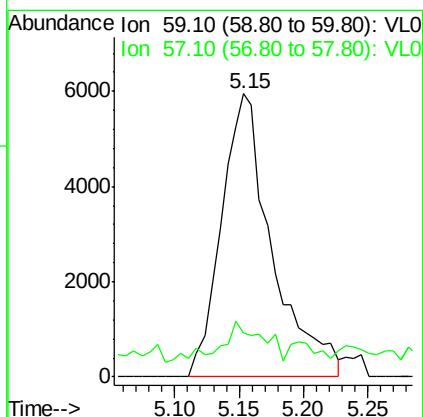
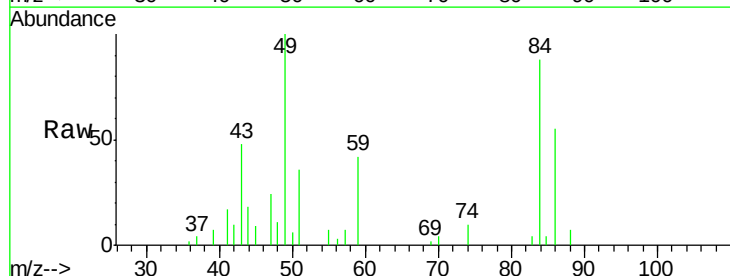
Instrument :
MSVOA_L
ClientSampleId :

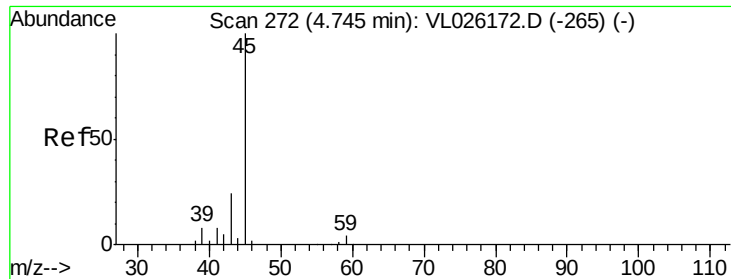
Tot Ion: 39 Resp: 8033
Ion Ratio Lower Upper
39 100
54 5.0 67.9 101.9#



#17
tert-Butyl alcohol
Concen: 0.68 ppbv
RT: 5.15 min Scan# 339
Delta R.T. 0.03 min
Lab File: VL026191.D
Acq: 10 Oct 2015 00:55

Tgt Ion: 59 Resp: 16268
Ion Ratio Lower Upper
59 100
57 15.6 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 6.98 ppbv

RT: 4.77 min Scan# 276

Delta R.T. 0.02 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

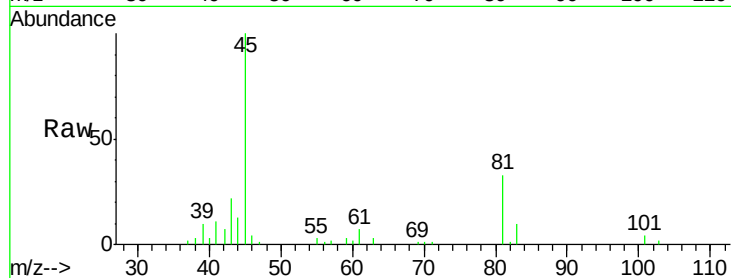
ClientSampleId :

Tot Ion: 45 Resp: 108550

Ion Ratio Lower Upper

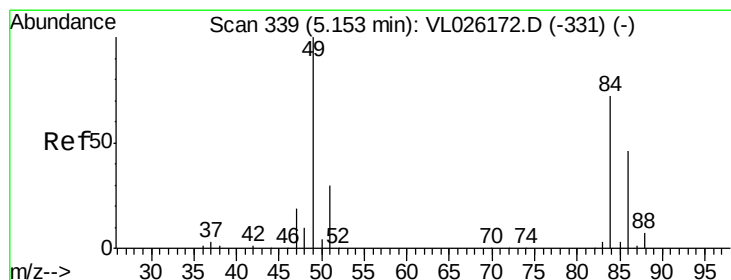
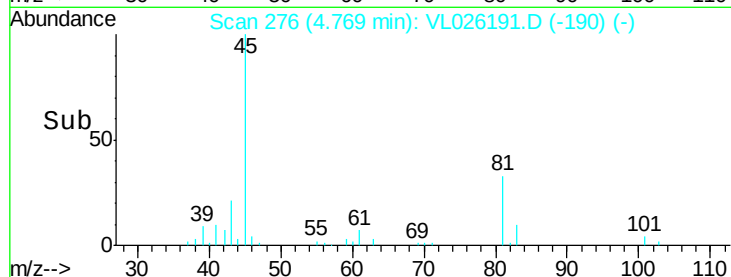
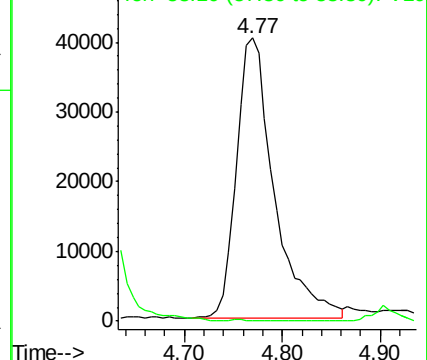
45 100

58 0.0 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.50 ppbv

RT: 5.15 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Tgt Ion: 84 Resp: 25432

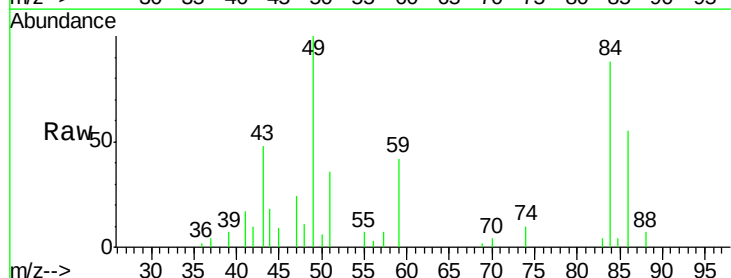
Ion Ratio Lower Upper

84 100

49 113.0 111.3 166.9

51 40.7 33.0 49.6

86 62.3 51.6 77.4

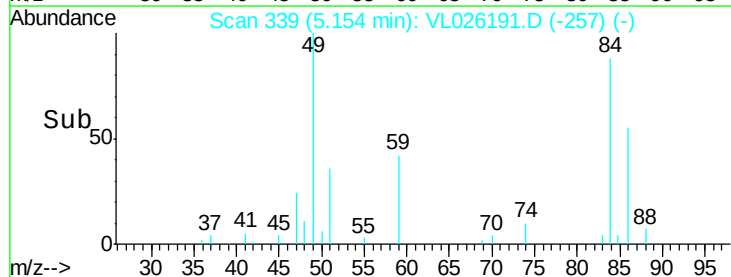
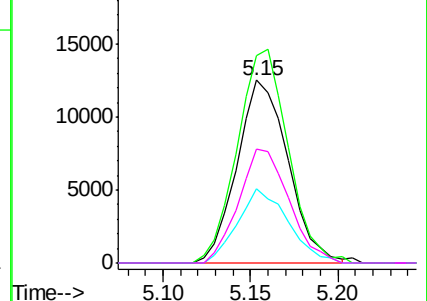


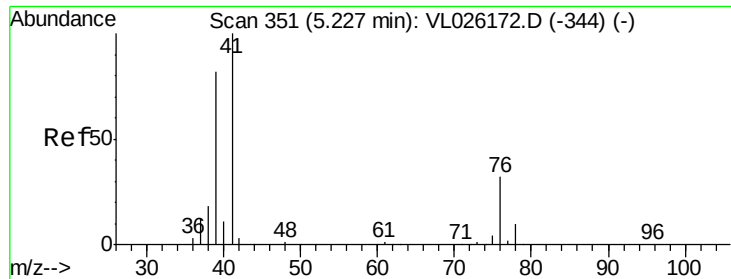
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allvl Chloride

Concen: 0.21 ppbv

RT: 5.17 min Scan# 341

Delta R.T. -0.06 min

Lab File: VL026191.D

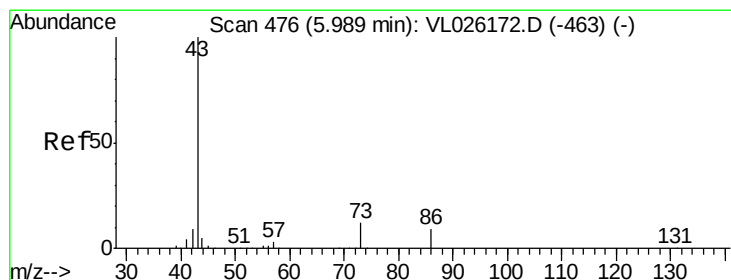
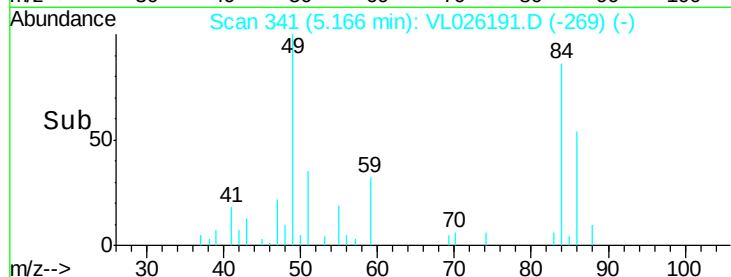
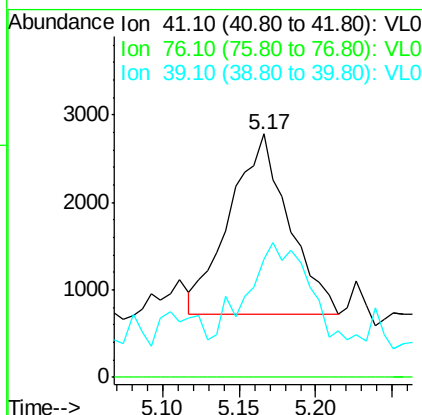
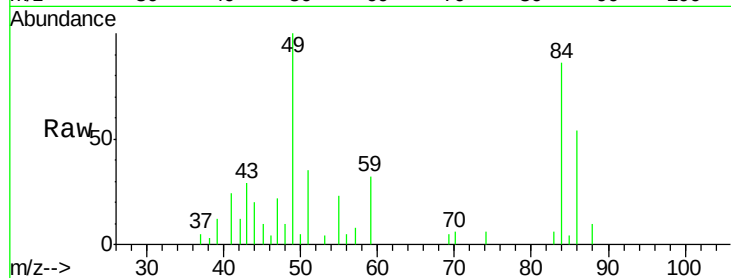
Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	41	Resp:	5467
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.2#
39	78.0	66.5	99.7



#23

Vinyl Acetate

Concen: 0.86 ppbv

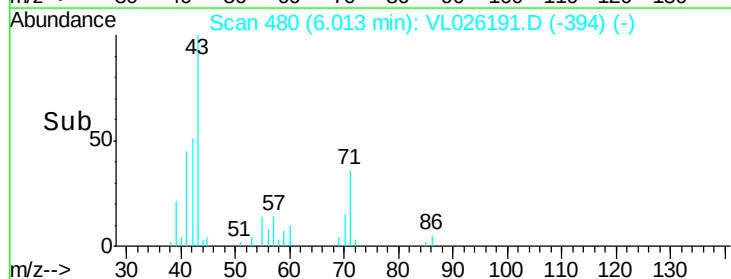
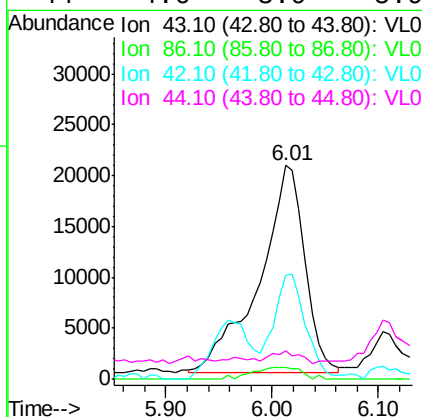
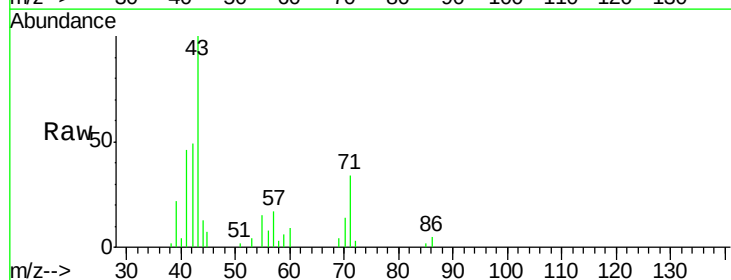
RT: 6.01 min Scan# 480

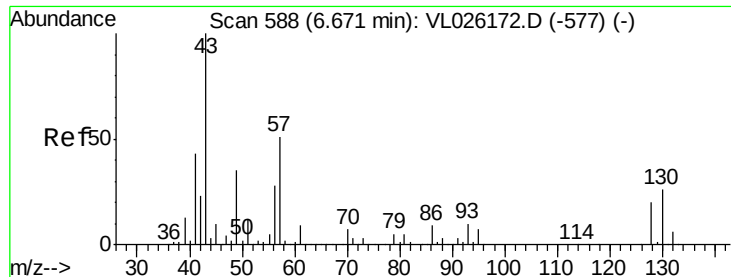
Delta R.T. 0.02 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Tgt Ion:	43	Resp:	60477
Ion	Ratio	Lower	Upper
43	100		
86	5.4	7.2	10.8#
42	50.6	7.4	11.2#
44	4.6	3.9	5.9

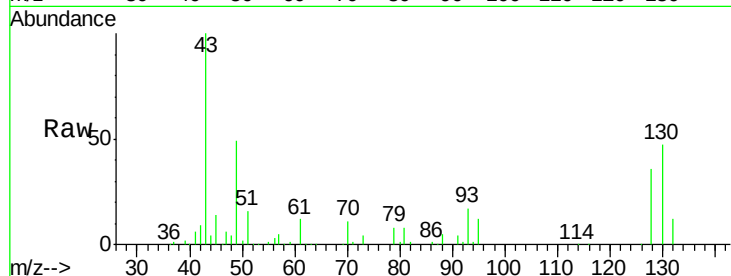




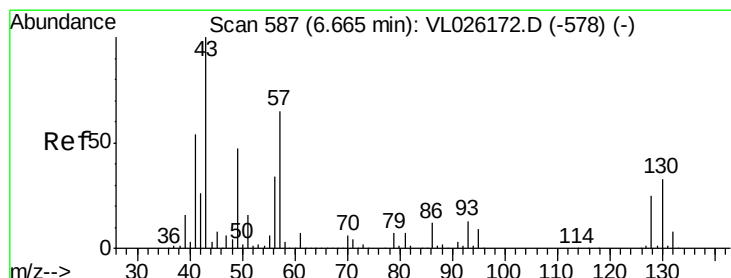
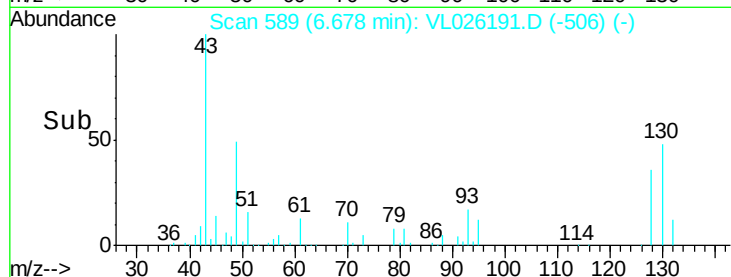
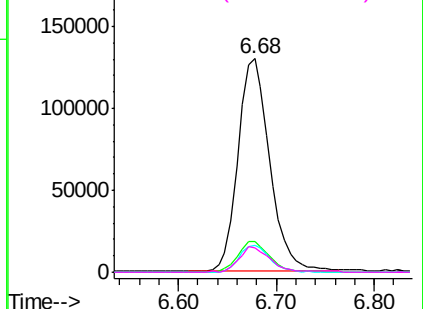
#25
Ethyl Acetate
Concen: 3.79 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.01 min
Lab File: VL026191.D
Acq: 10 Oct 2015 00:55

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	292512
Ion	Ratio	Lower	Upper
43	100		
45	14.6	7.7	11.5#
61	12.4	7.4	11.2#
70	12.6	6.6	9.8#

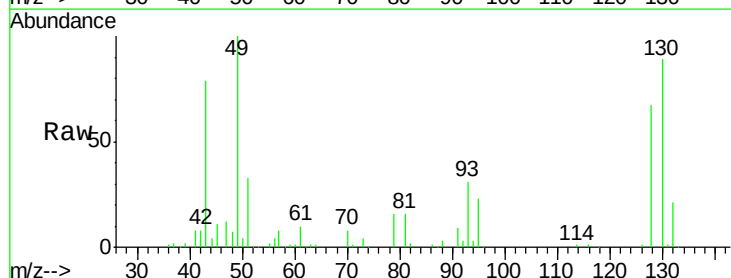


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

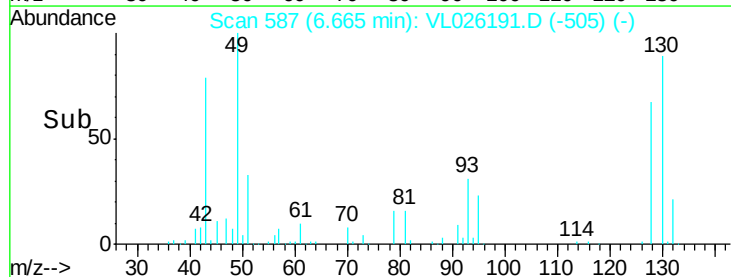
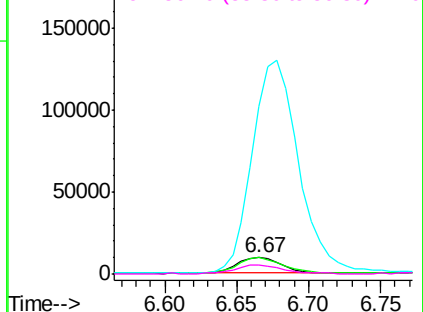


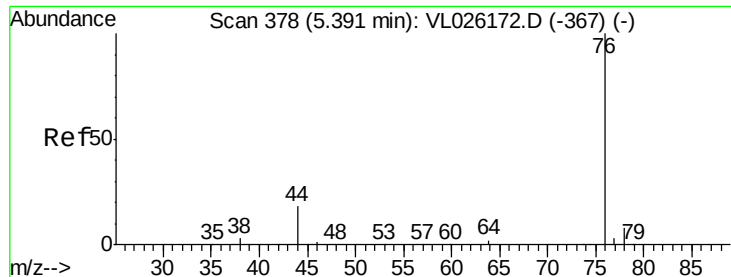
#26
Hexane
Concen: 0.55 ppbv
RT: 6.67 min Scan# 587
Delta R.T. 0.00 min
Lab File: VL026191.D
Acq: 10 Oct 2015 00:55

Tgt Ion:	57	Resp:	20587
Ion	Ratio	Lower	Upper
57	100		
41	112.9	68.0	102.0#
43	1442.0	164.4	246.6#
56	65.0	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: 2.18 ppbv

RT: 5.40 min Scan# 379

Delta R.T. 0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

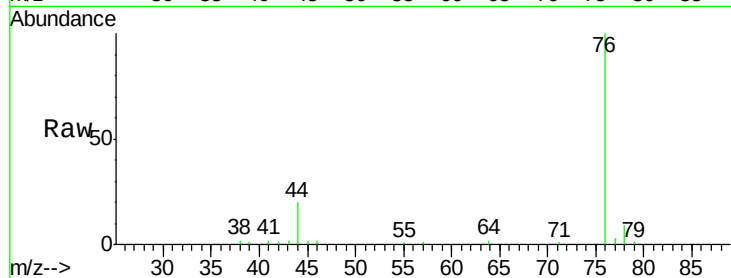
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 76 Resp: 97630

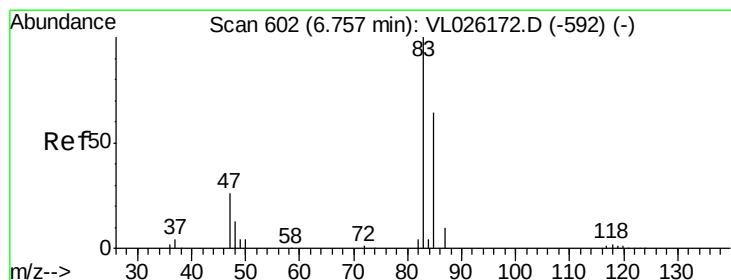
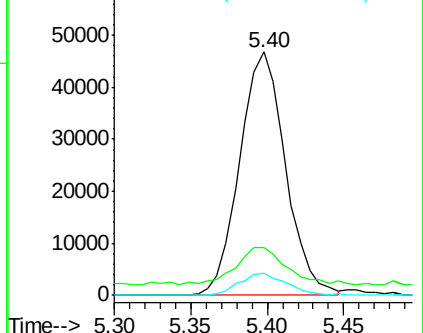
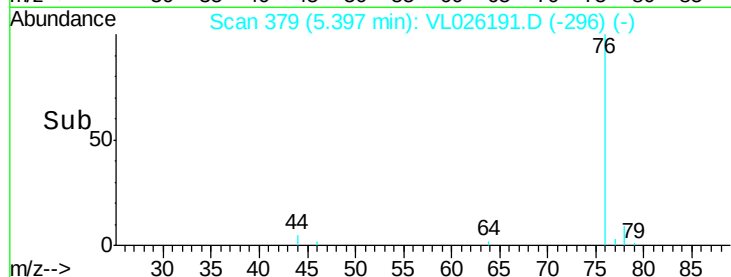
Ion	Ratio	Lower	Upper
76	100		
44	18.4	14.2	21.4
78	9.5	7.5	11.3



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



#29

Chloroform

Concen: 0.56 ppbv

RT: 6.76 min Scan# 602

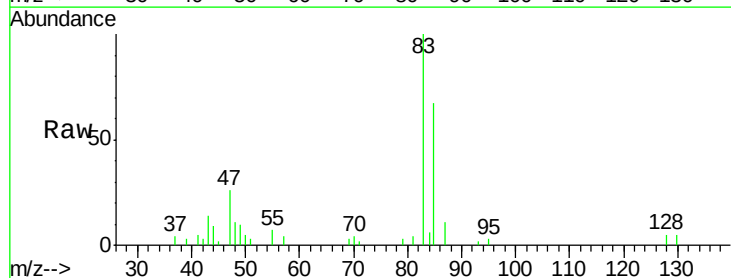
Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

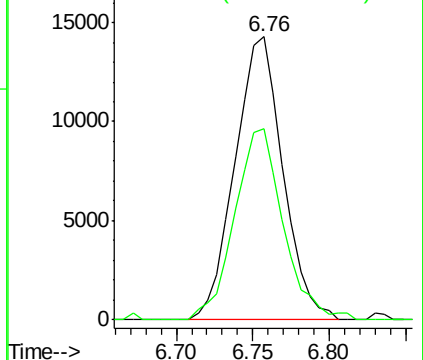
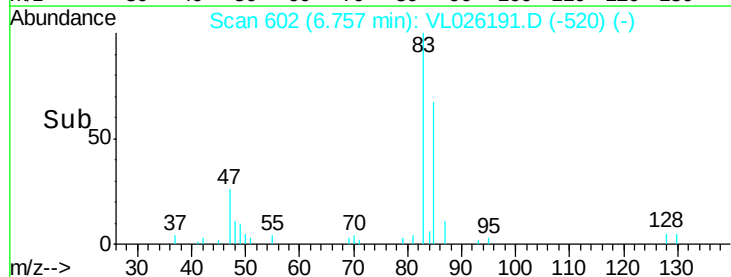
Tgt Ion: 83 Resp: 31100

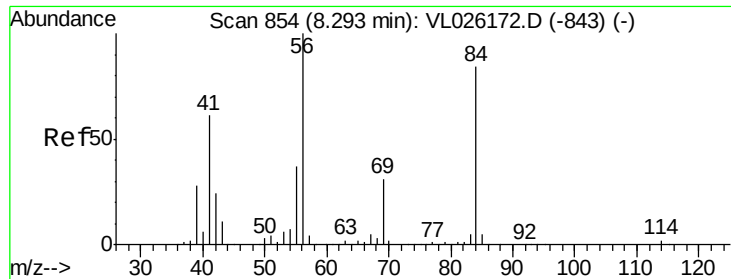
Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.5	77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

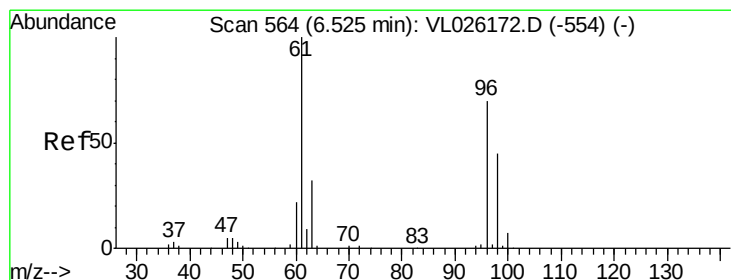
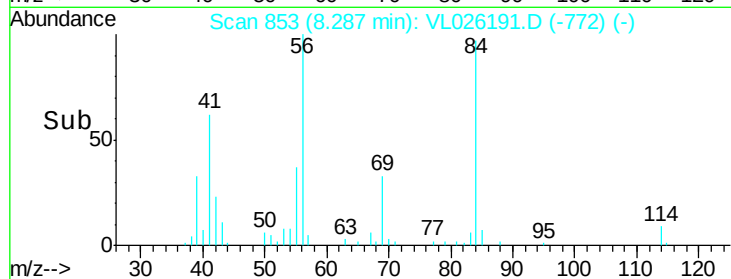
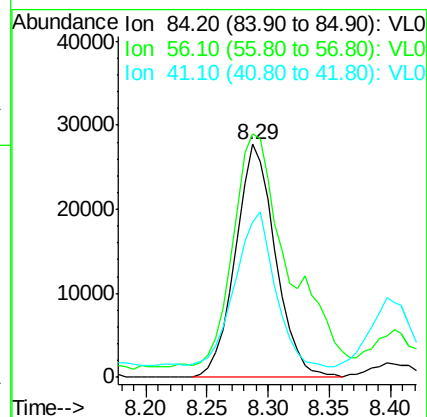
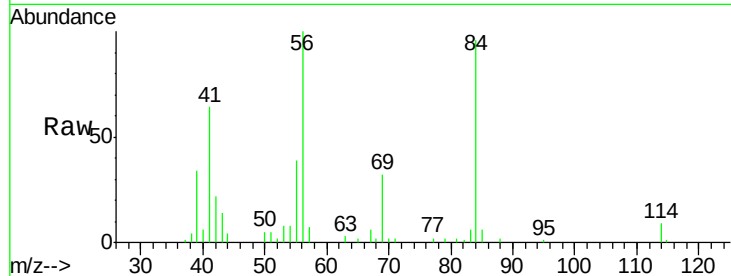




#30
Cvclohexane
Concen: 1.77 ppbv
RT: 8.29 min Scan# 853
Delta R.T. -0.01 min
Lab File: VL026191.D
Acq: 10 Oct 2015 00:55

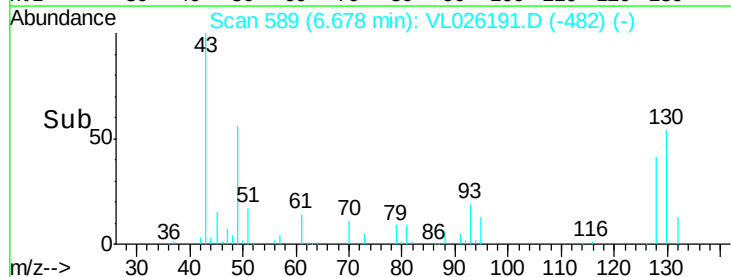
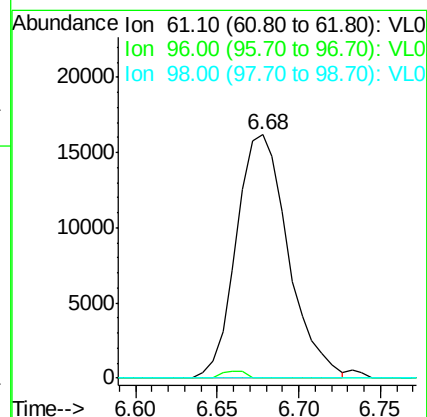
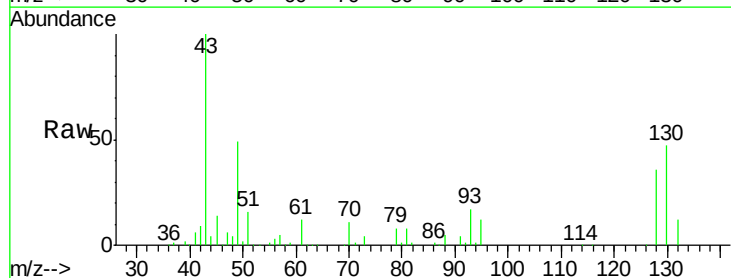
Instrument :
MSVOA_L
ClientSampleId :

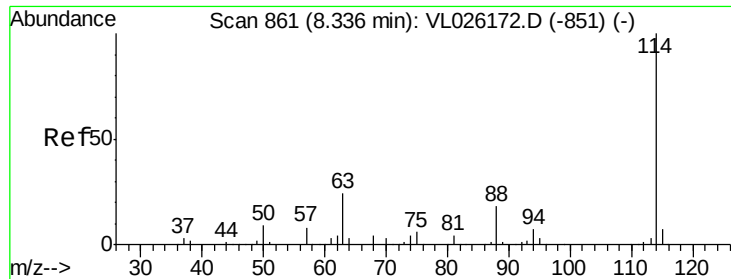
Tot Ion: 84 Resp: 62899
Ion Ratio Lower Upper
84 100
56 147.6 99.8 149.8
41 70.0 58.1 87.1



#31
cis-1,2-Dichloroethene
Concen: 1.05 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.15 min
Lab File: VL026191.D
Acq: 10 Oct 2015 00:55

Tgt Ion: 61 Resp: 35912
Ion Ratio Lower Upper
61 100
96 0.0 55.8 83.8#
98 0.0 35.8 53.6#

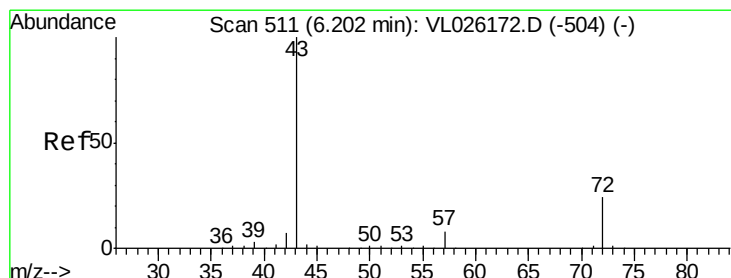
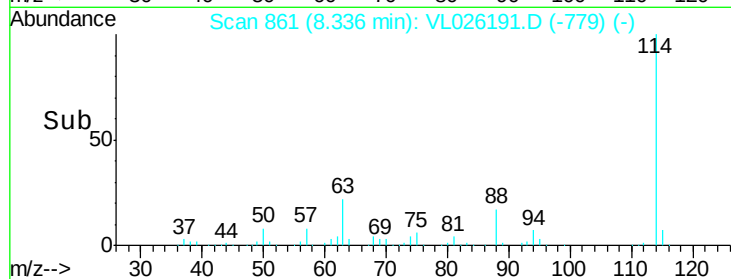
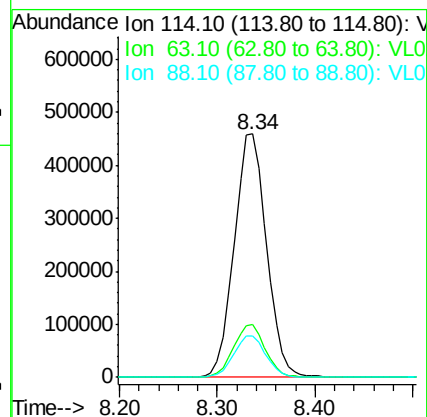
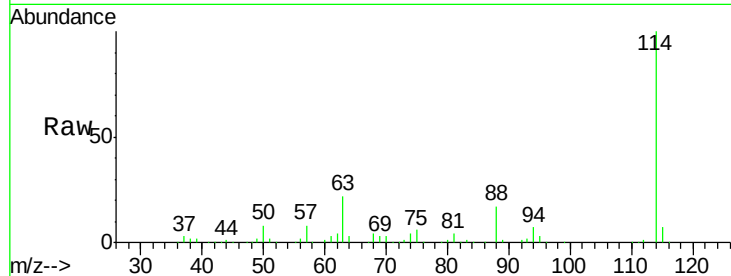




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. 0.00 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

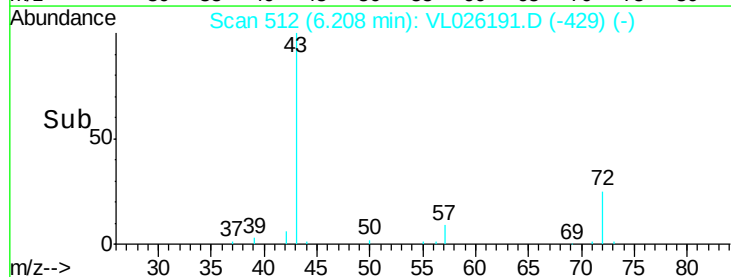
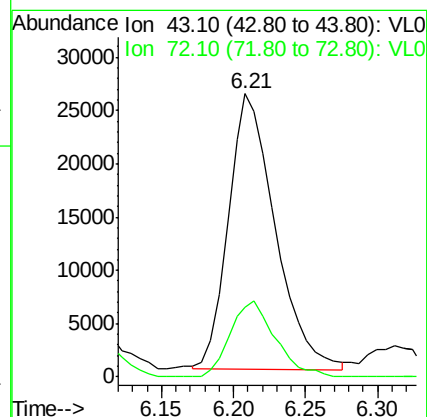
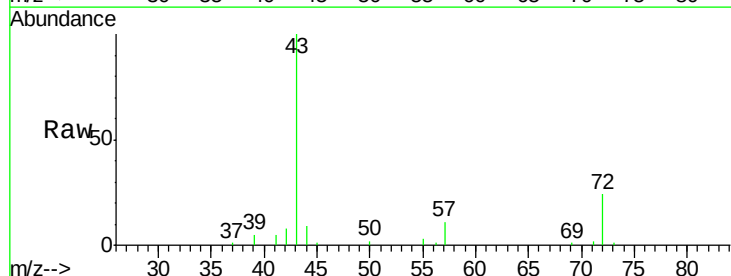
Instrument :
 MSVOA_L
 ClientSampleId :

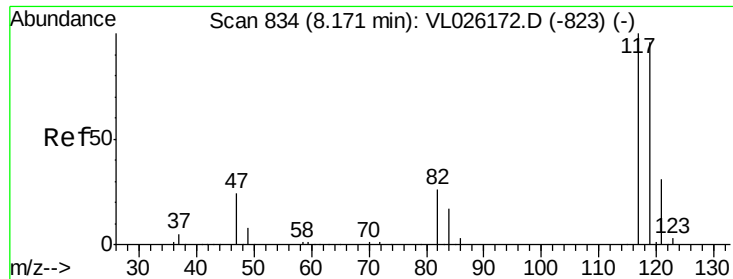
Tot Ion:114 Resp: 1054787
 Ion Ratio Lower Upper
 114 100
 63 21.4 19.0 28.6
 88 17.1 13.8 20.8



#34
 2-Butanone
 Concen: 1.00 ppbv
 RT: 6.21 min Scan# 512
 Delta R.T. 0.01 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

Tgt Ion: 43 Resp: 58527
 Ion Ratio Lower Upper
 43 100
 72 26.6 19.6 29.4





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.17 min Scan# 833

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

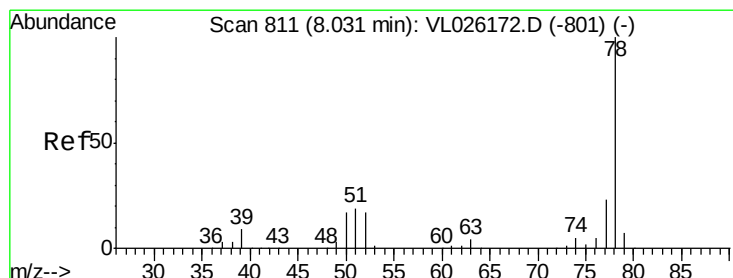
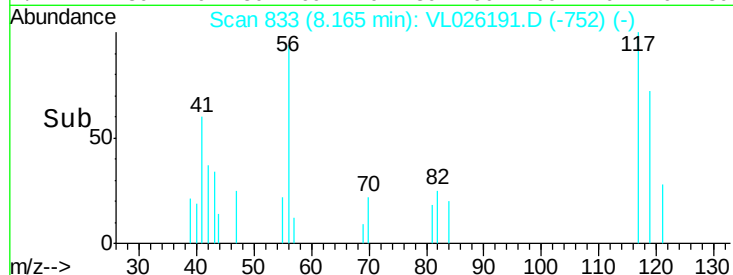
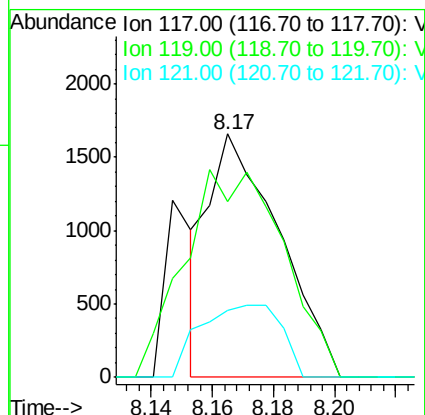
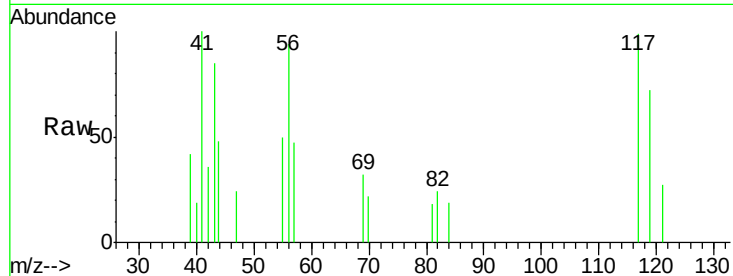
Tot Ion:117 Resp: 2647

Ion Ratio Lower Upper

117 100

119 72.3 76.6 115.0#

121 27.7 25.0 37.4



#36

Benzene

Concen: 0.32 ppbv

RT: 8.02 min Scan# 810

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

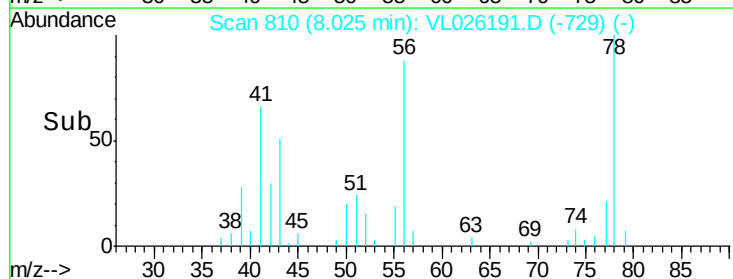
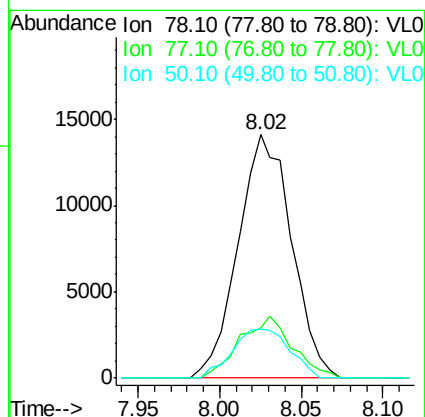
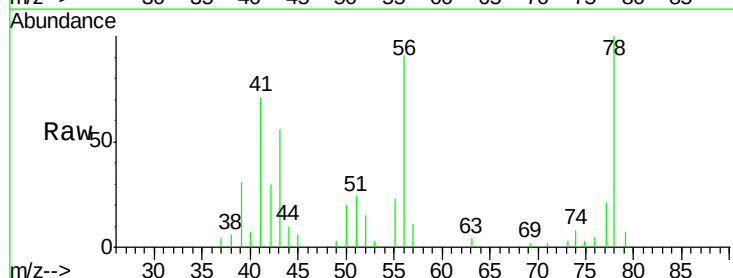
Tgt Ion: 78 Resp: 32161

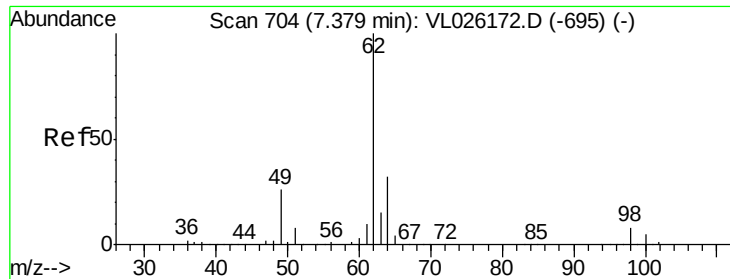
Ion Ratio Lower Upper

78 100

77 20.7 18.2 27.4

50 20.1 13.4 20.2





#37

1,2-Dichloroethane

Concen: 0.10 ppbv

RT: 7.37 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

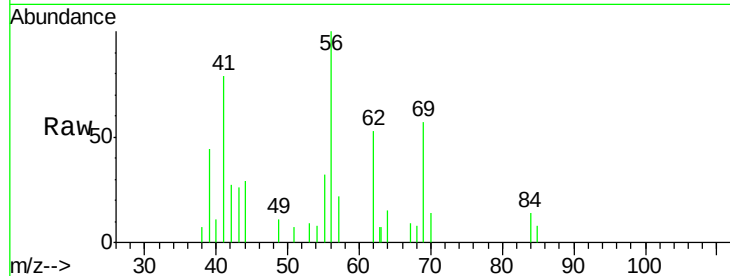
ClientSampleId :

Tot Ion: 62 Resp: 5547

Ion Ratio Lower Upper

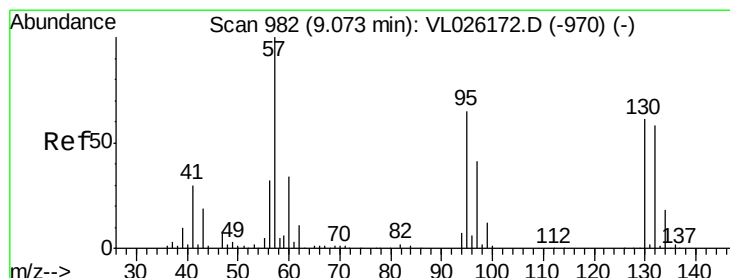
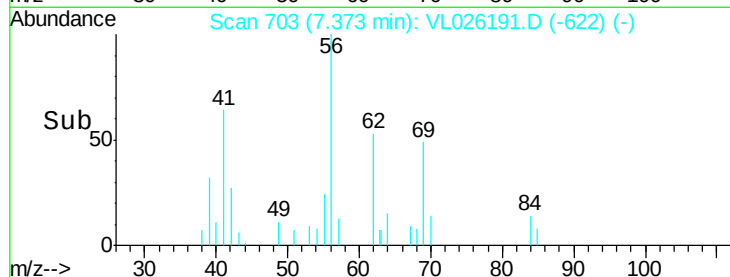
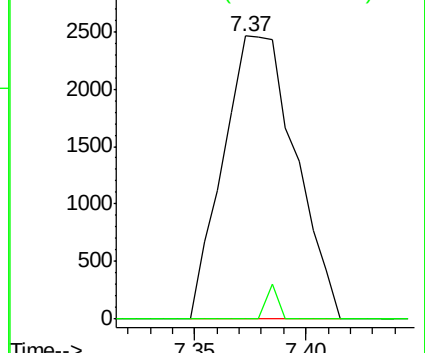
62 100

98 0.0 6.2 9.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.07 ppbv

RT: 9.07 min Scan# 982

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Tgt Ion:130 Resp: 3139

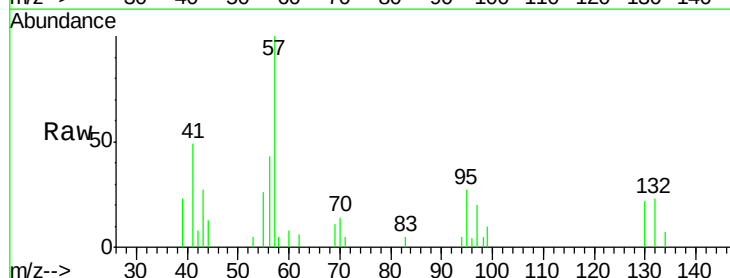
Ion Ratio Lower Upper

130 100

95 95.2 84.9 127.3

132 105.0 76.8 115.2

97 91.6 54.1 81.1#

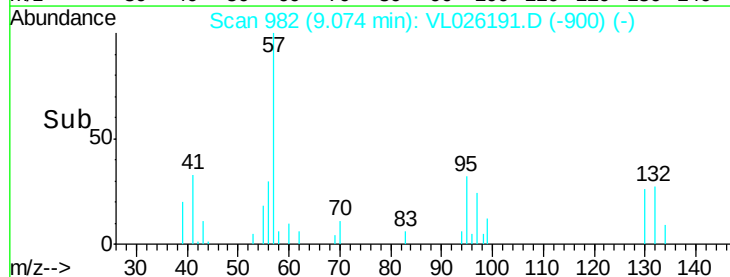
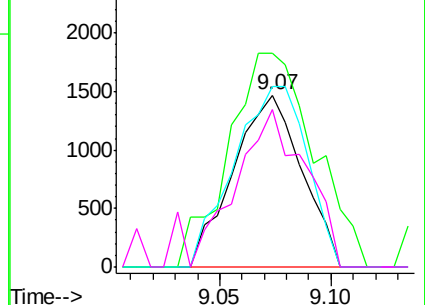


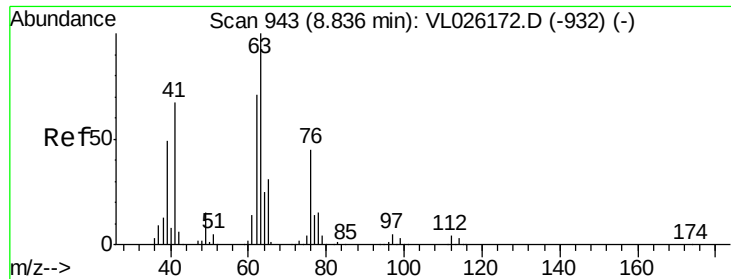
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.05 ppbv

RT: 8.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

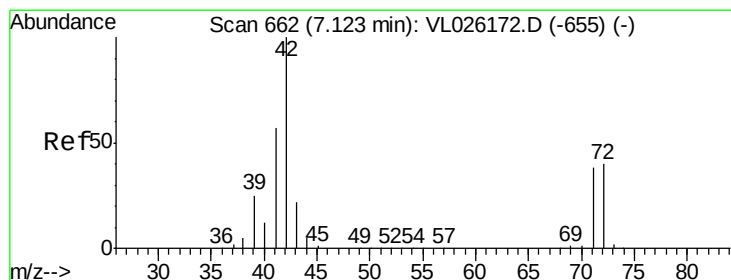
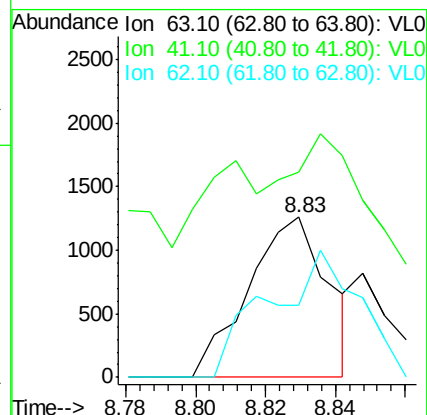
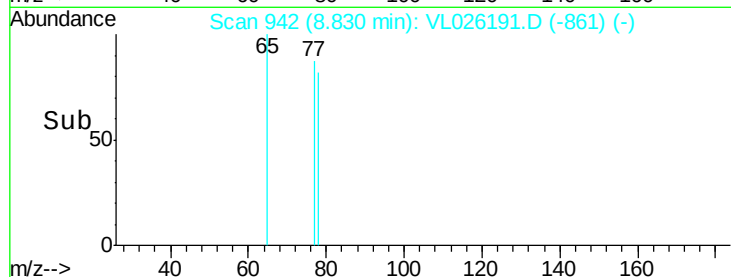
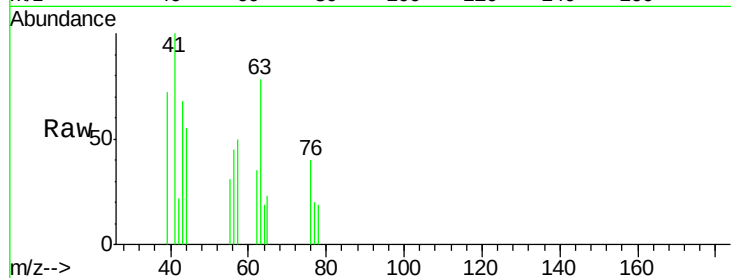
Tot Ion: 63 Resp: 2008

Ion Ratio Lower Upper

63 100

41 22.7 53.9 80.9#

62 45.0 57.1 85.7#



#41

Tetrahydrofuran

Concen: 0.12 ppbv

RT: 7.11 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

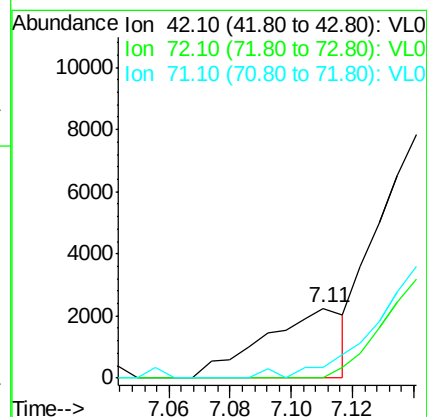
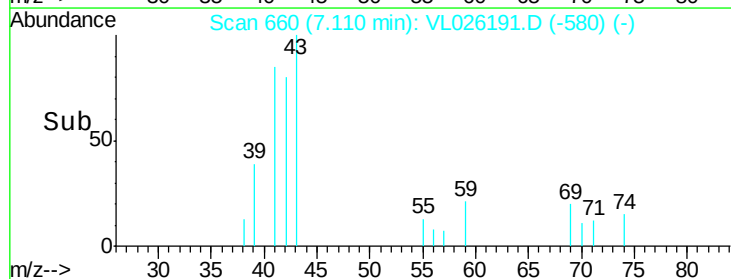
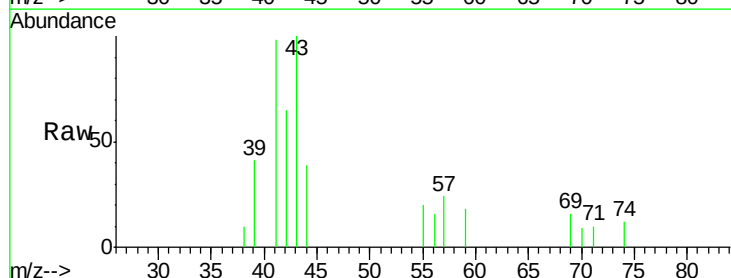
Tgt Ion: 42 Resp: 4131

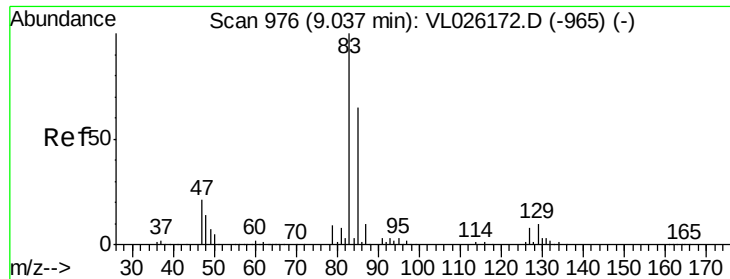
Ion Ratio Lower Upper

42 100

72 0.0 32.4 48.6#

71 0.0 30.2 45.4#





#42

Bromodichloromethane

Concen: 0.04 ppbv

RT: 9.02 min Scan# 973

Delta R.T. -0.02 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampled :

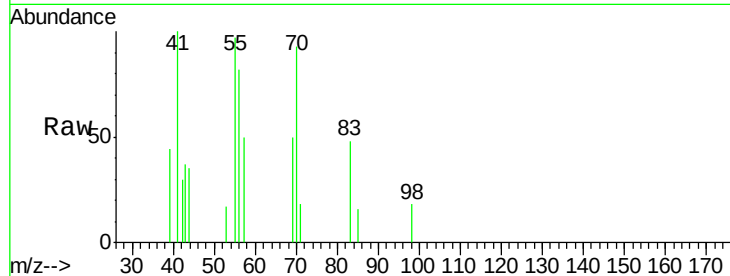
Tot Ion: 83 Resp: 2762

Ion Ratio Lower Upper

83 100

85 32.6 51.9 77.9#

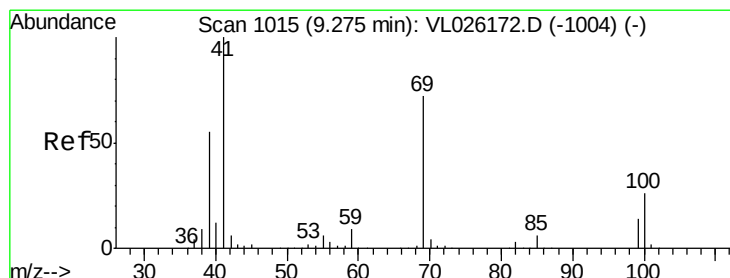
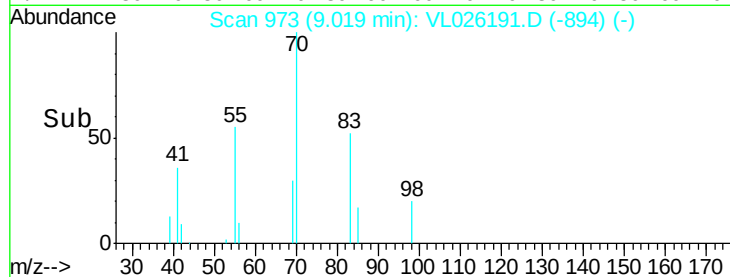
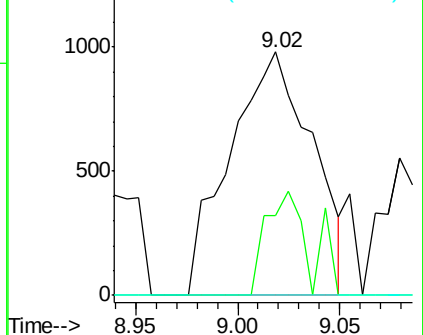
127 0.0 6.2 9.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.04 ppbv

RT: 9.27 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

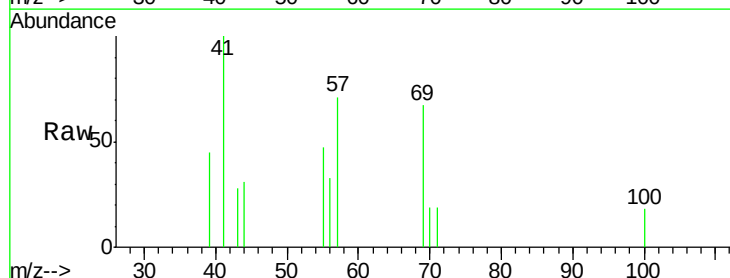
Tgt Ion: 69 Resp: 1548

Ion Ratio Lower Upper

69 100

41 0.0 111.5 167.3#

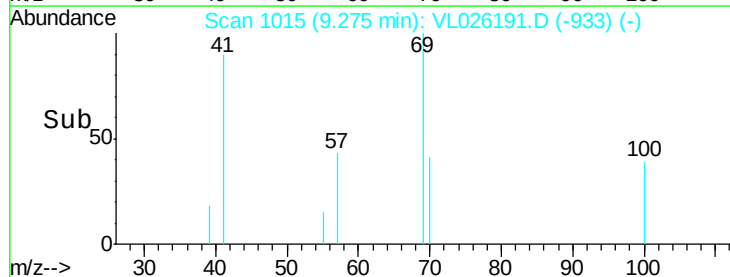
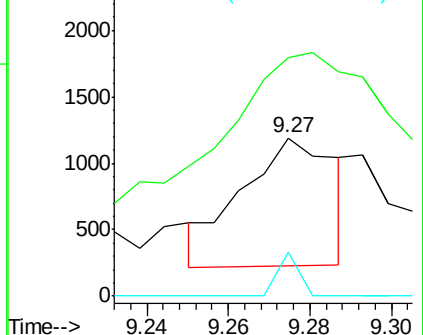
100 0.0 28.4 42.6#

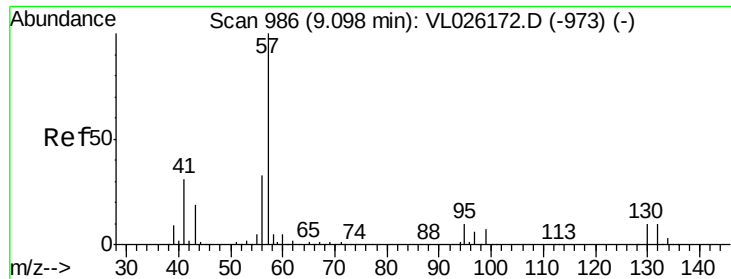


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

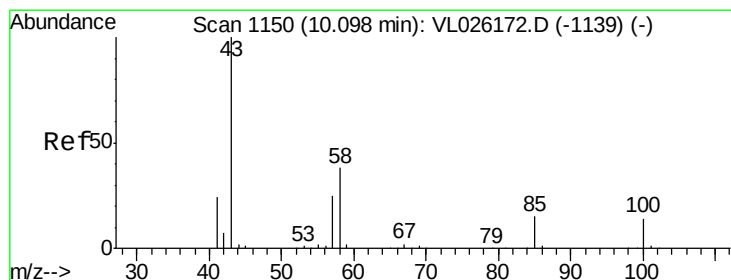
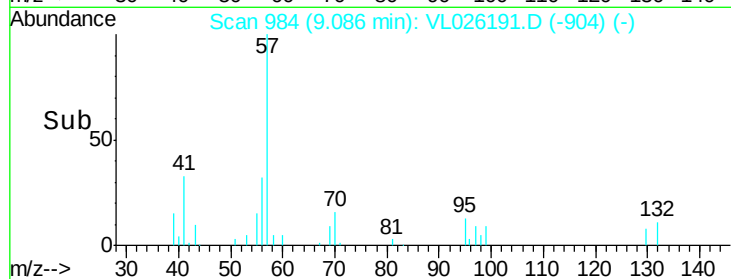
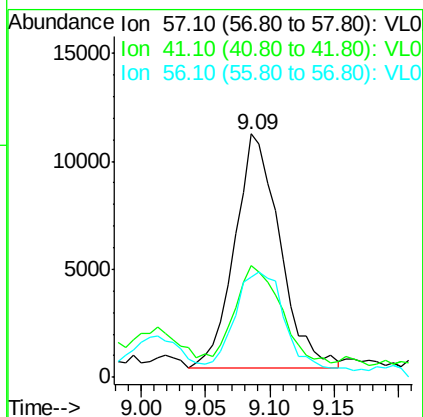
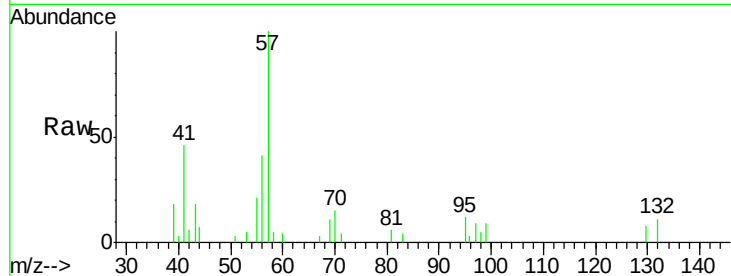




#44
 2,2,4-Trimethylpentane
 Concen: 0.16 ppbv
 RT: 9.09 min Scan# 984
 Delta R.T. -0.01 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

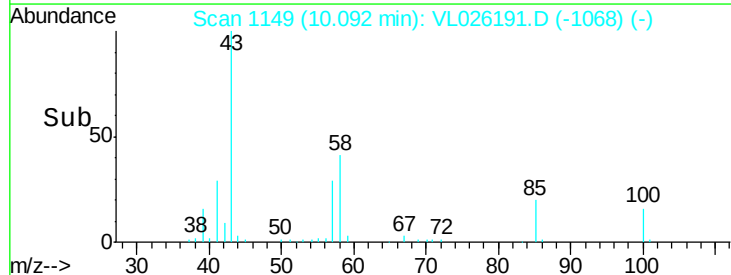
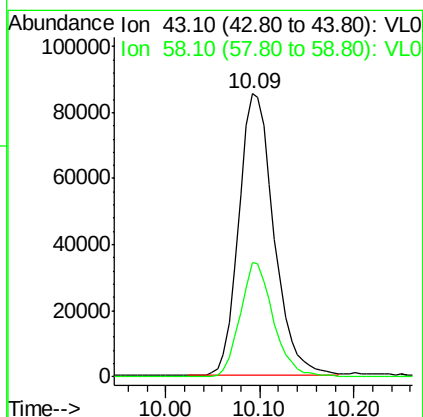
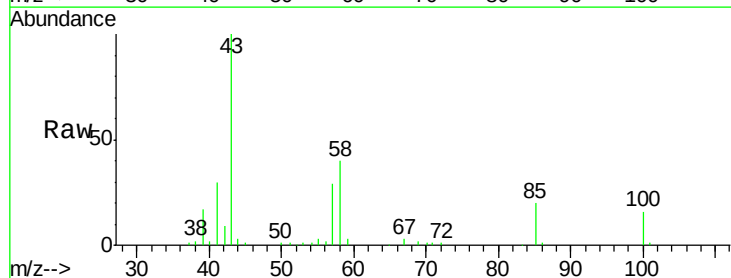
Instrument :
 MSVOA_L
 ClientSampleId :

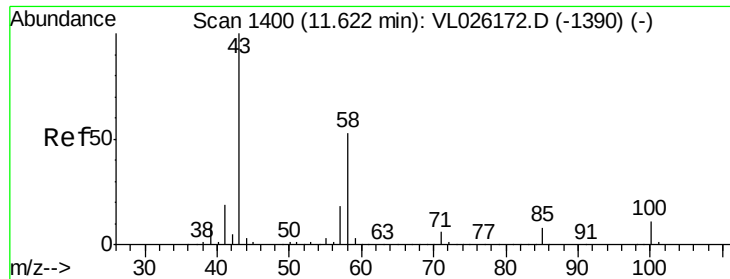
Tot Ion: 57 Resp: 26299
 Ion Ratio Lower Upper
 57 100
 41 43.4 23.7 35.5#
 56 57.7 26.4 39.6#



#50
 4-Methyl-2-Pentanone
 Concen: 2.87 ppbv
 RT: 10.09 min Scan# 1149
 Delta R.T. -0.01 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

Tgt Ion: 43 Resp: 222454
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.4 45.6





#51

2-Hexanone

Concen: 0.06 ppbv

RT: 11.63 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

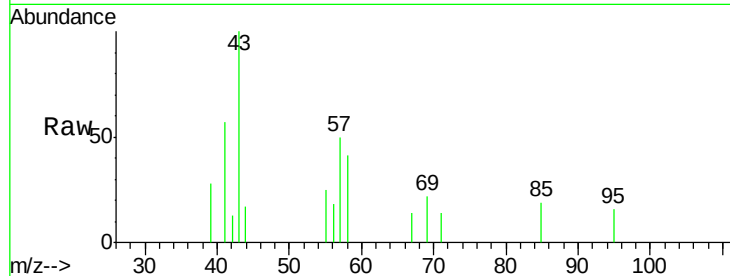
Tot Ion: 43 Resp: 4494

Ion Ratio Lower Upper

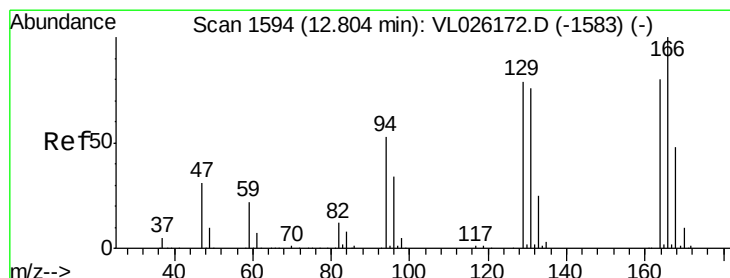
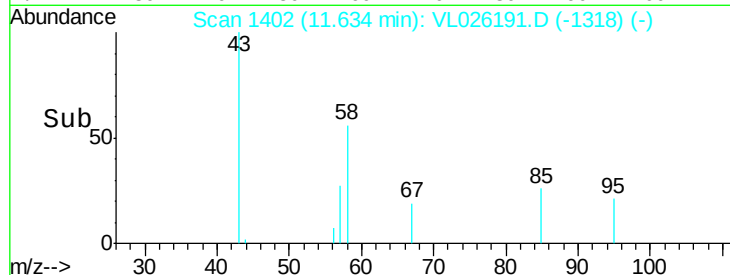
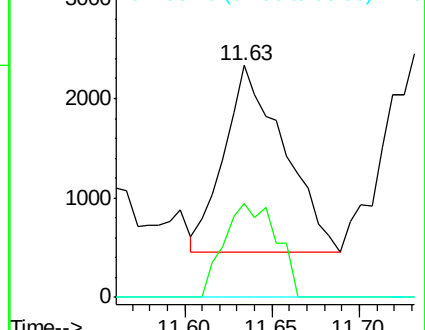
43 100

58 44.0 42.2 63.4

98 0.0 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.55 ppbv

RT: 12.80 min Scan# 1593

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Tgt Ion: 164 Resp: 27292

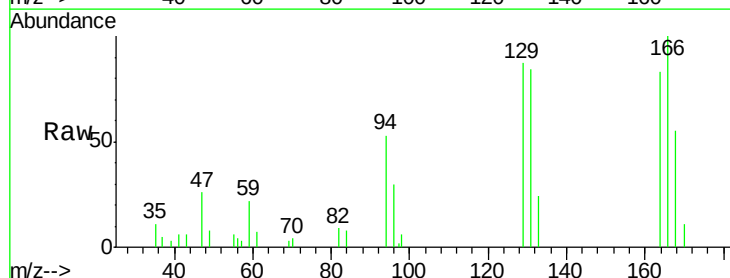
Ion Ratio Lower Upper

164 100

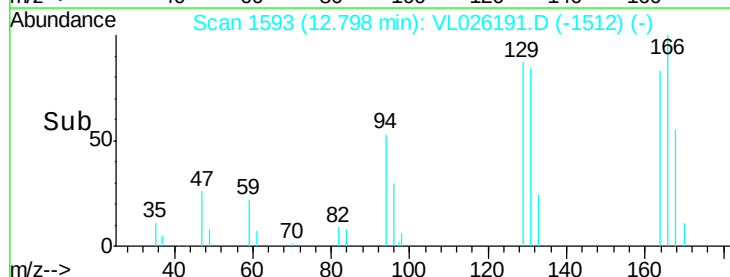
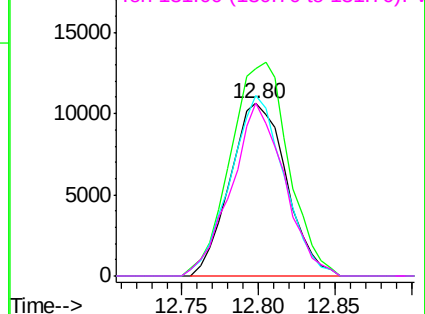
166 120.0 99.9 149.9

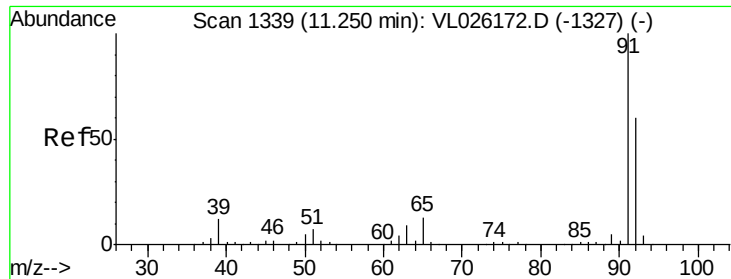
129 104.4 79.1 118.7

131 100.3 76.3 114.5



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 4.94 ppbv

RT: 11.24 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

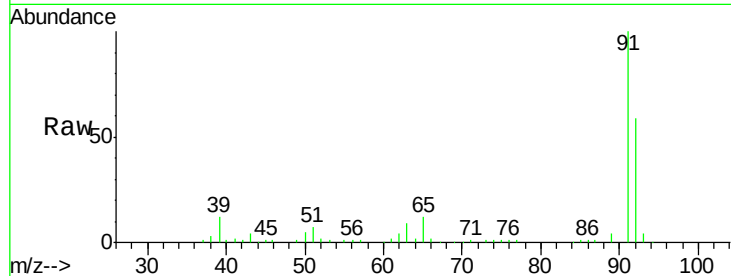
ClientSampleId :

Tot Ion: 91 Resp: 641897

Ion Ratio Lower Upper

91 100

92 59.6 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

11.24

250000

200000

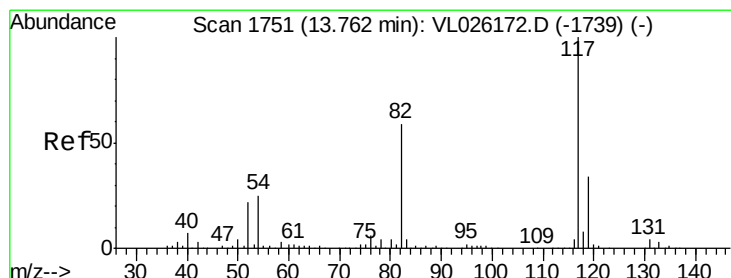
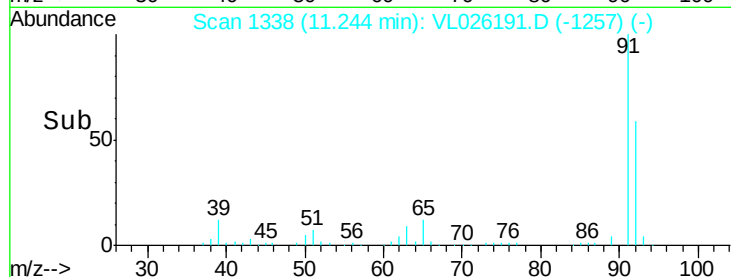
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

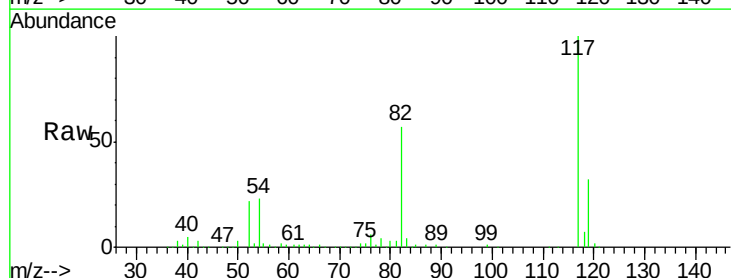
Tgt Ion: 117 Resp: 1035282

Ion Ratio Lower Upper

117 100

82 60.6 47.7 71.5

119 32.2 43.7 65.5#



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

13.76

500000

400000

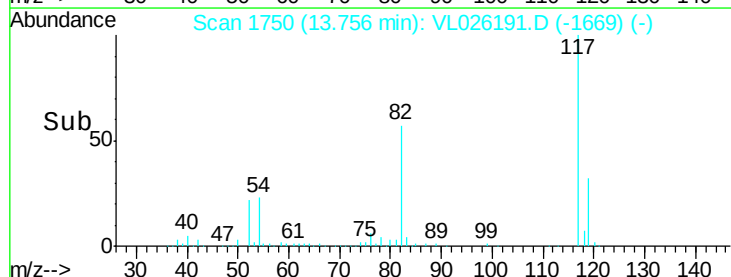
300000

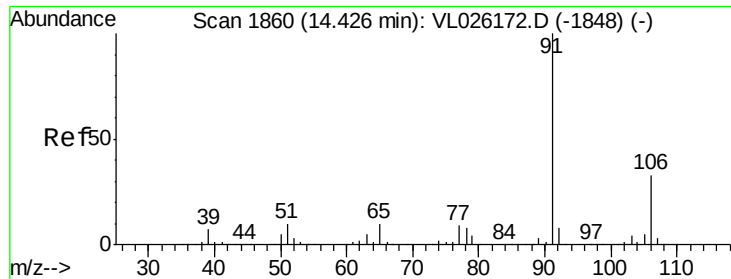
200000

100000

0

Time-->





#58

Ethyl Benzene

Concen: 1.83 ppbv

RT: 14.42 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

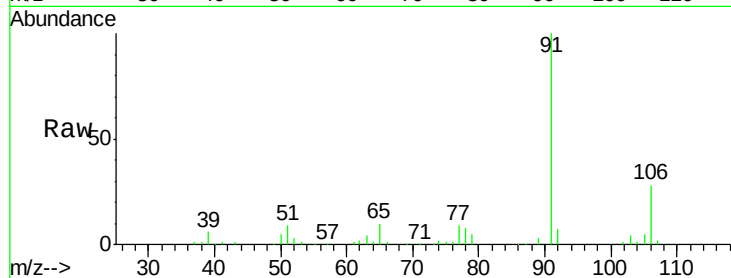
ClientSampleId :

Tot Ion: 91 Resp: 275090

Ion Ratio Lower Upper

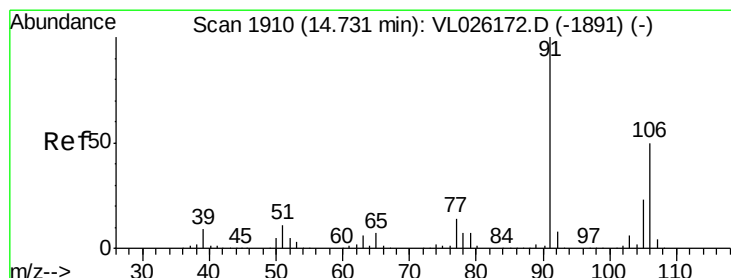
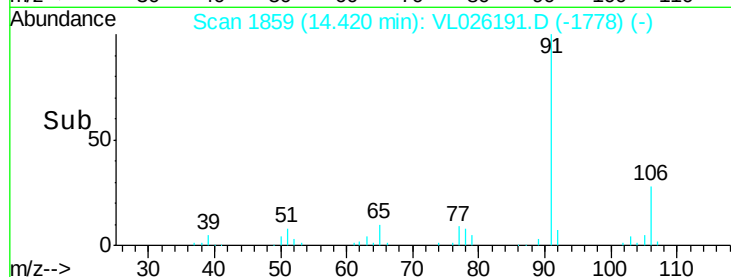
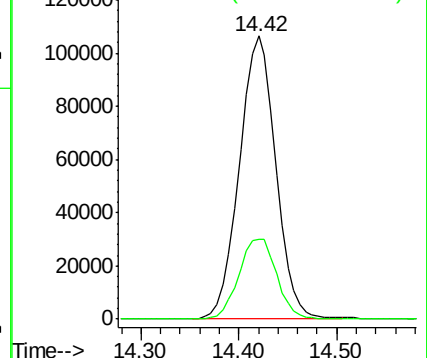
91 100

106 28.1 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 8.88 ppbv

RT: 14.69 min Scan# 1904

Delta R.T. -0.04 min

Lab File: VL026191.D

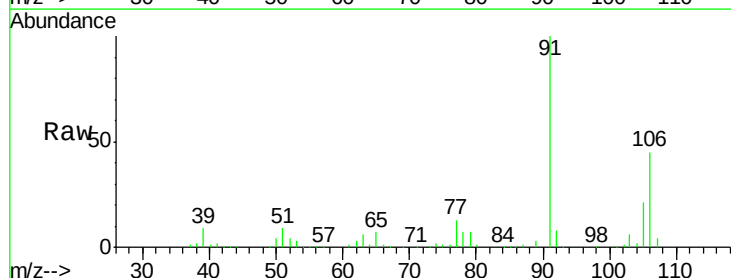
Acq: 10 Oct 2015 00:55

Tgt Ion: 91 Resp: 1071743

Ion Ratio Lower Upper

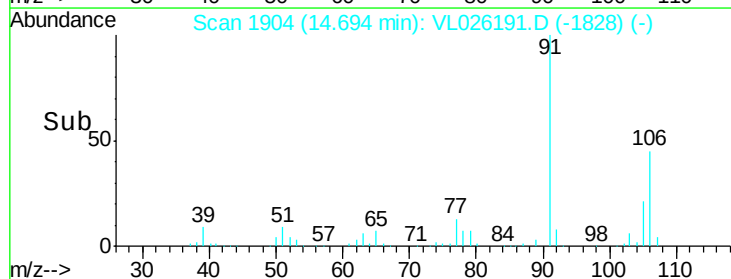
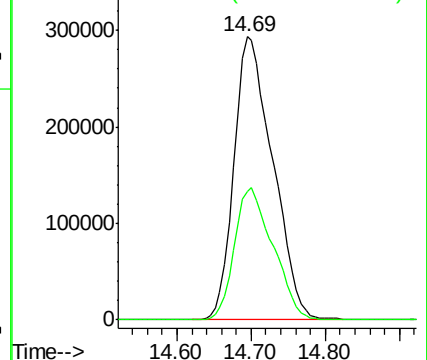
91 100

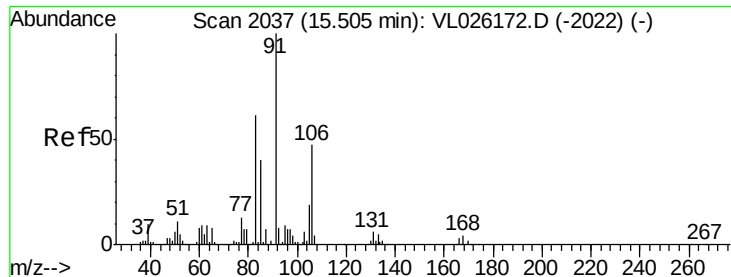
106 46.5 40.2 60.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 2.50 ppbv

RT: 15.50 min Scan# 2036

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

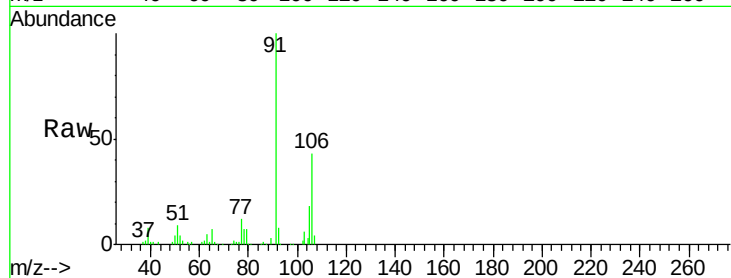
ClientSampled :

Tot Ion: 91 Resp: 315851

Ion Ratio Lower Upper

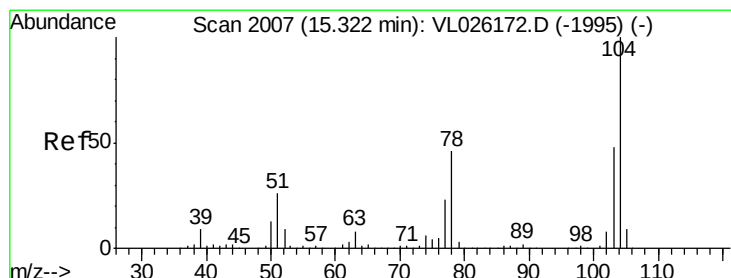
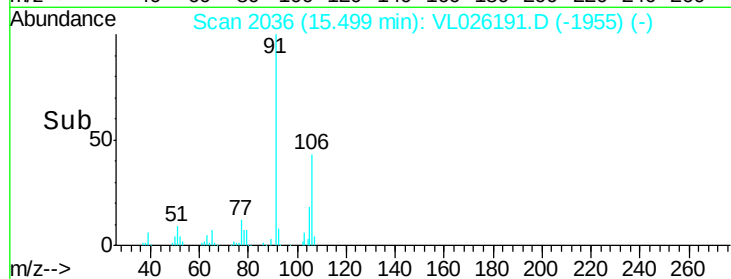
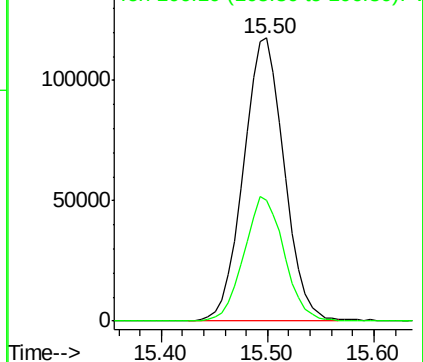
91 100

106 43.3 23.4 70.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): VL0



#61

Styrene

Concen: 4.56 ppbv

RT: 15.32 min Scan# 2006

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

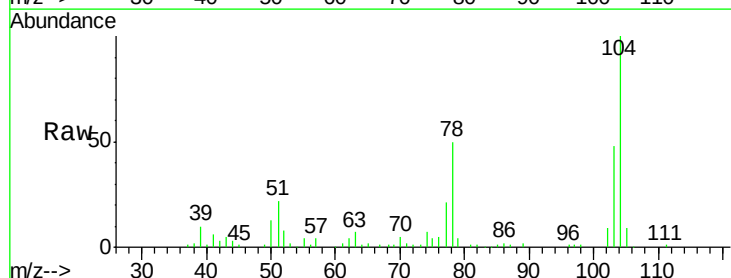
Tgt Ion: 104 Resp: 235656

Ion Ratio Lower Upper

104 100

78 51.1 36.1 54.1

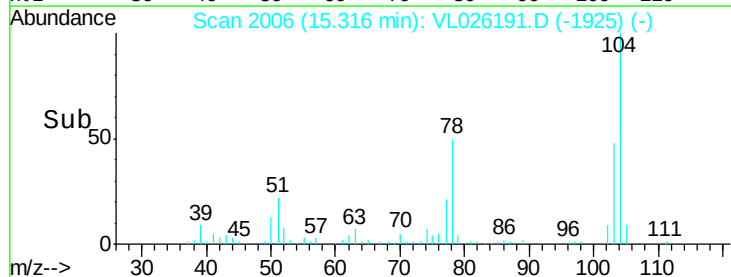
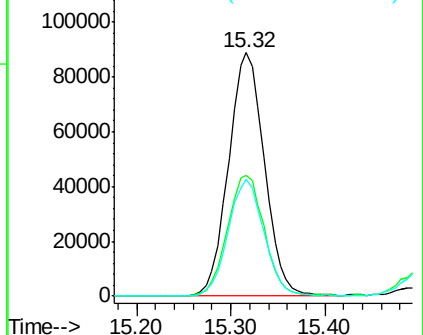
103 48.0 37.5 56.3

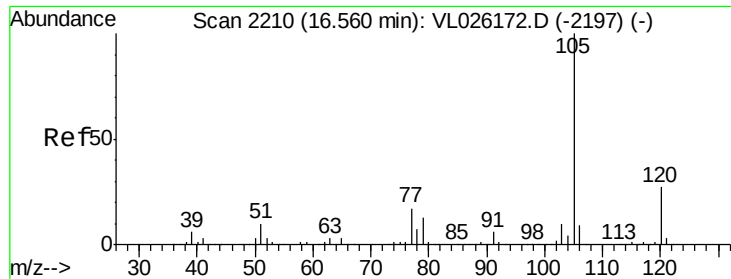


Abundance Ion 104.10 (103.80 to 104.80): VL0

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): VL0





#62

Isopropylbenzene

Concen: 0.14 ppbv

RT: 16.55 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

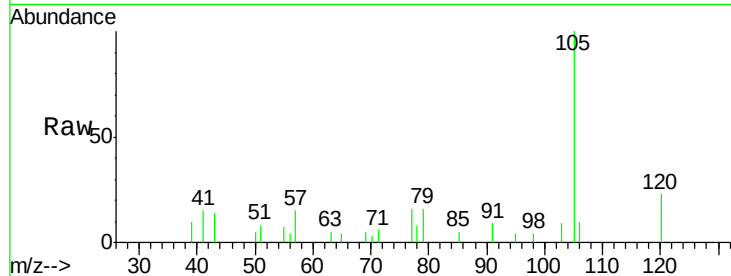
ClientSampleId :

Tot Ion:105 Resp: 23575

Ion Ratio Lower Upper

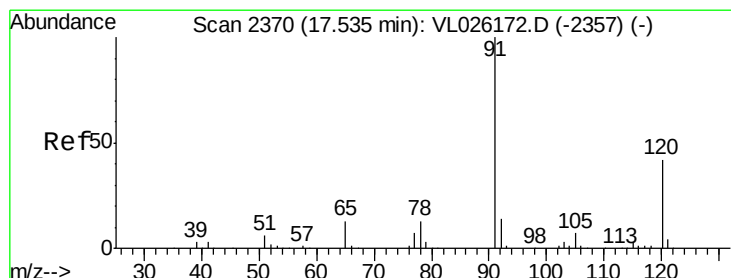
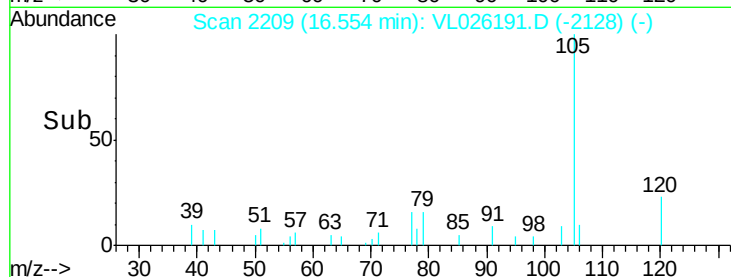
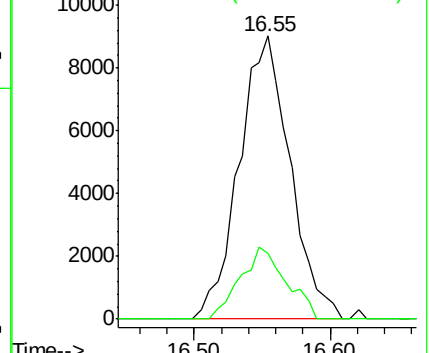
105 100

120 22.9 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.23 ppbv

RT: 17.52 min Scan# 2368

Delta R.T. -0.01 min

Lab File: VL026191.D

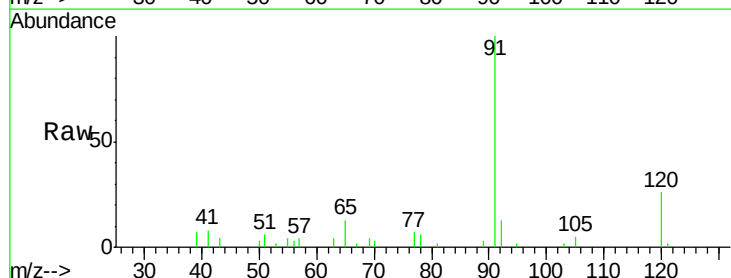
Acq: 10 Oct 2015 00:55

Tgt Ion:120 Resp: 10456

Ion Ratio Lower Upper

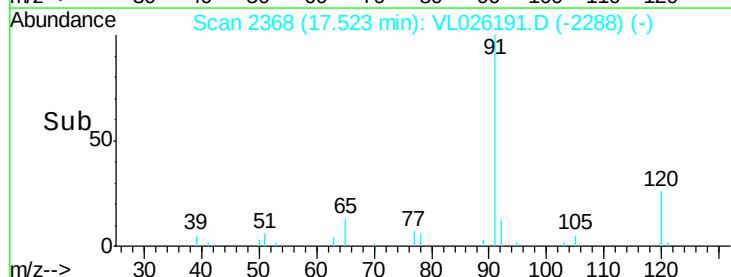
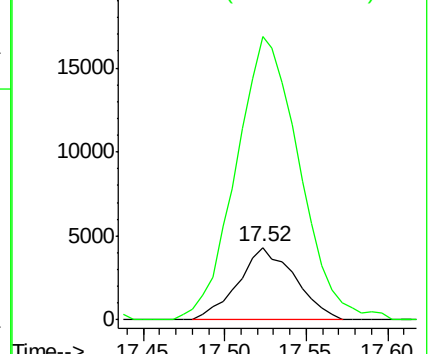
120 100

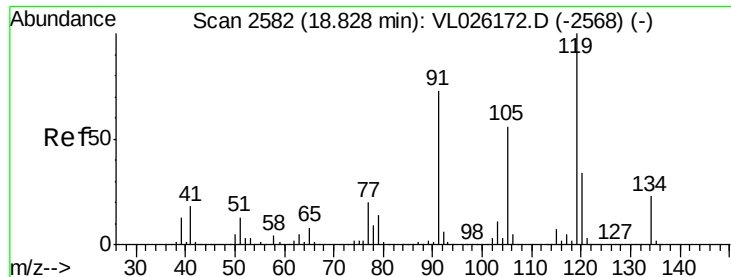
91 437.0 353.4 530.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

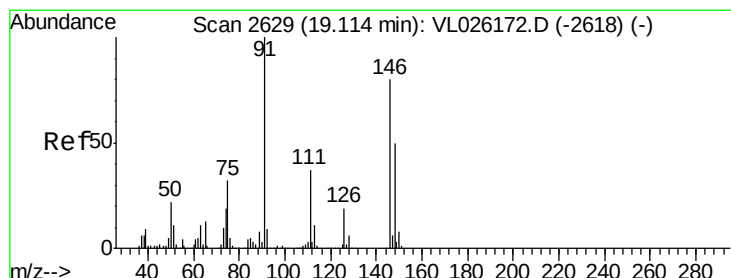
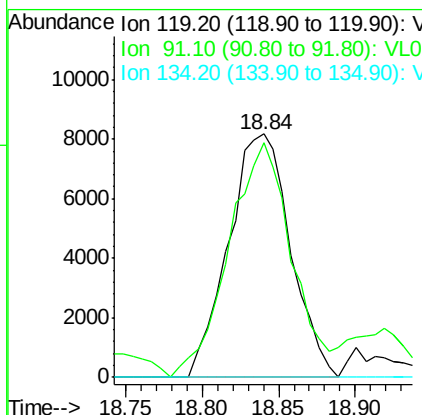
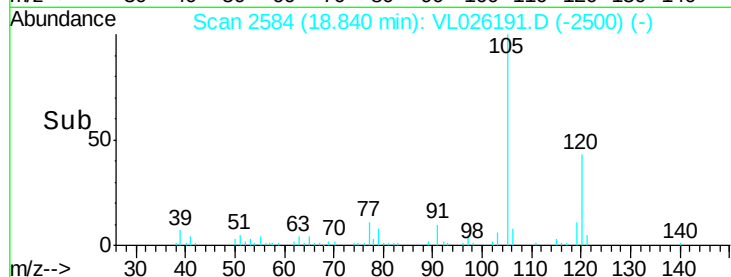
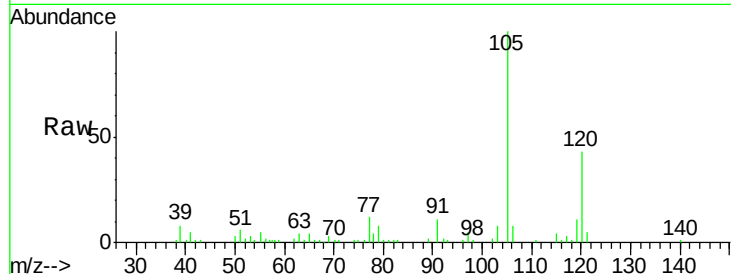




#65
 tert-Butylbenzene
 Concen: 0.16 ppbv
 RT: 18.84 min Scan# 2584
 Delta R.T. 0.01 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

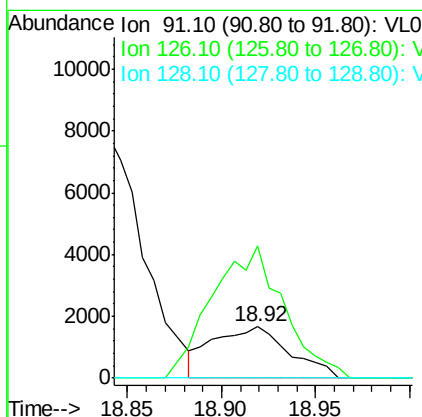
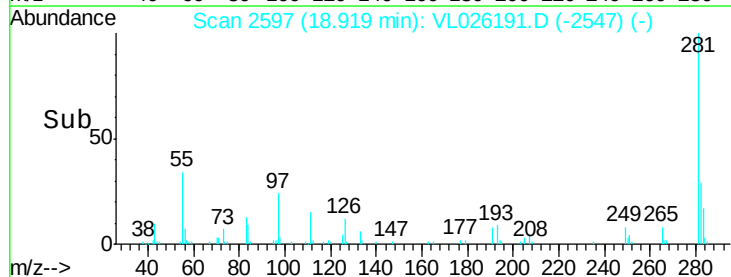
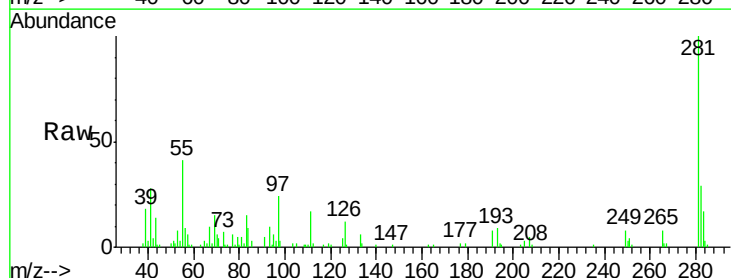
Instrument :
 MSVOA_L
 ClientSampled :

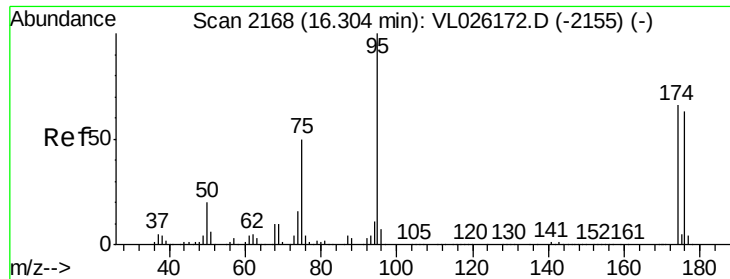
Tot Ion: 119 Resp: 22961
 Ion Ratio Lower Upper
 119 100
 91 117.8 58.5 87.7#
 134 0.0 18.0 27.0#



#66
 Benzyl Chloride
 Concen: 0.11 ppbv
 RT: 18.92 min Scan# 2597
 Delta R.T. -0.20 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

Tgt Ion: 91 Resp: 4681
 Ion Ratio Lower Upper
 91 100
 126 241.8 15.2 22.8#
 128 0.0 4.8 7.2#

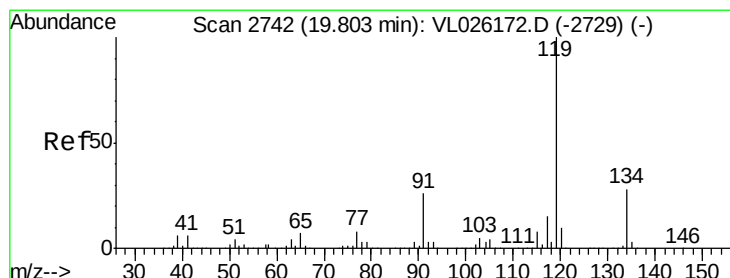
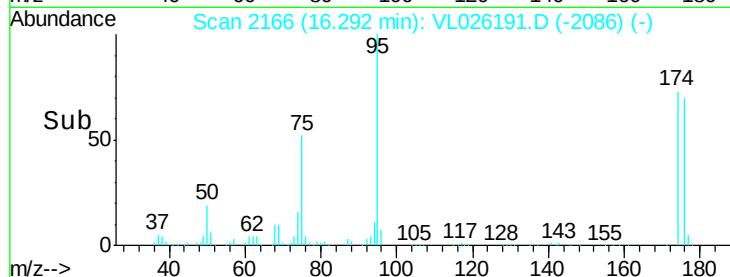
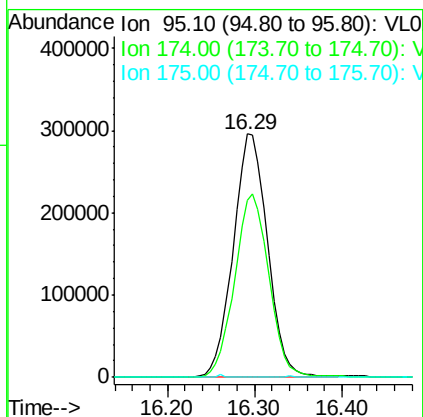
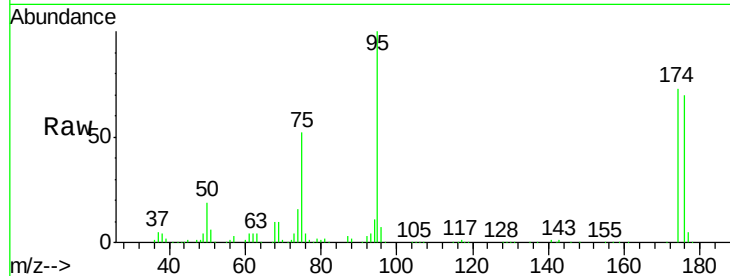




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.18 ppbv
 RT: 16.29 min Scan# 2166
 Delta R.T. -0.01 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

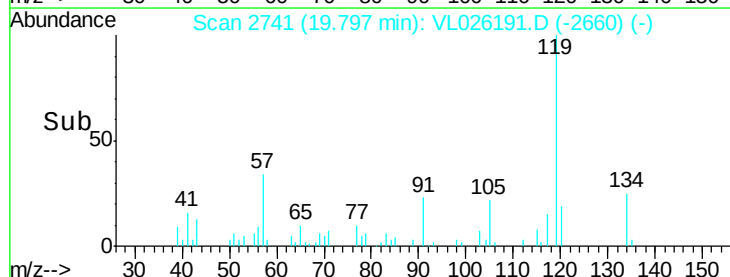
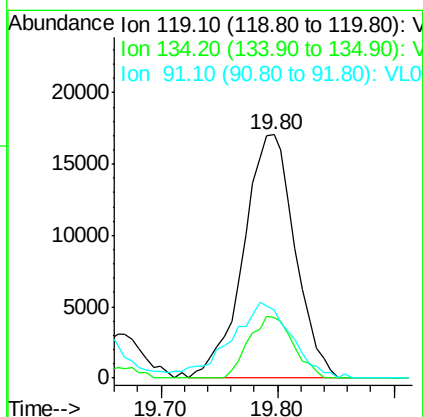
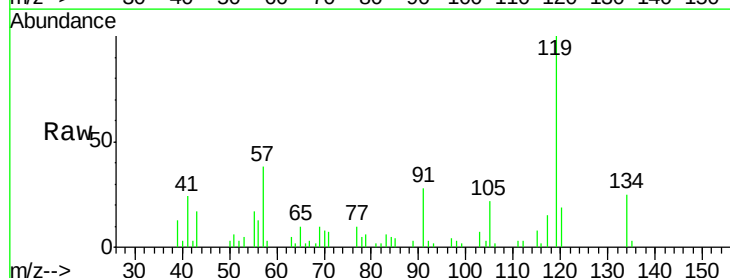
Instrument :
 MSVOA_L
 ClientSampleId :

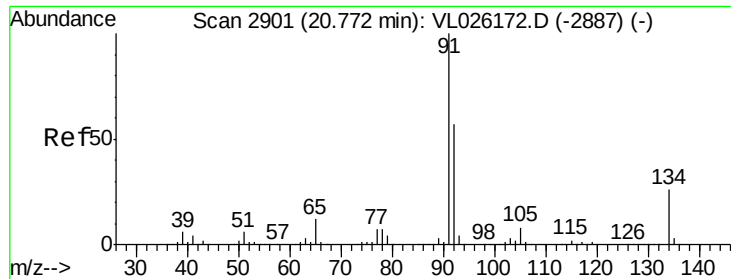
Tot Ion: 95 Resp: 808636
 Ion Ratio Lower Upper
 95 100
 174 75.6 52.2 78.4
 175 0.0 3.9 5.9#



#69
 p-Isopropyltoluene
 Concen: 0.32 ppbv
 RT: 19.80 min Scan# 2741
 Delta R.T. -0.01 min
 Lab File: VL026191.D
 Acq: 10 Oct 2015 00:55

Tgt Ion: 119 Resp: 52385
 Ion Ratio Lower Upper
 119 100
 134 22.0 21.4 32.0
 91 35.9 19.9 29.9#





#70

n-Butylbenzene

Concen: 0.10 ppbv

RT: 20.77 min Scan# 2901

Delta R.T. 0.00 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

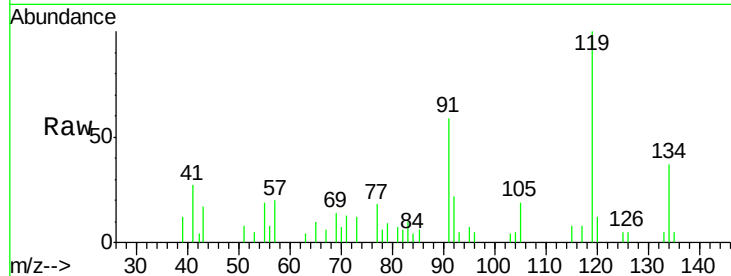
Tot Ion: 91 Resp: 15386

Ion Ratio Lower Upper

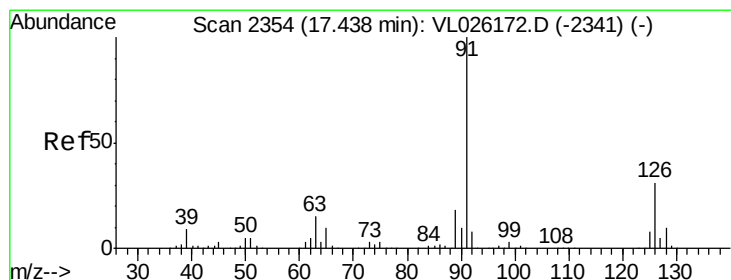
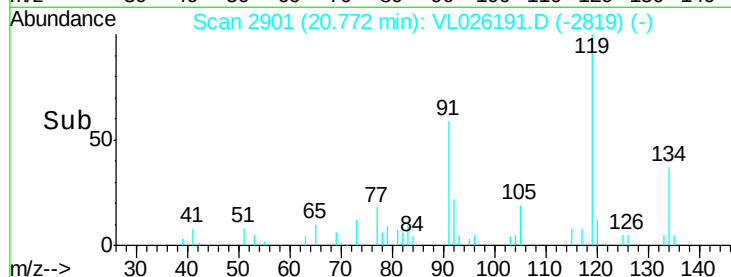
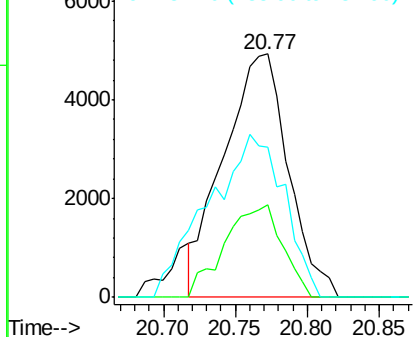
91 100

92 33.9 45.0 67.6#

134 78.7 19.8 29.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): VL0



#71

2-Chlorotoluene

Concen: 0.37 ppbv

RT: 17.52 min Scan# 2368

Delta R.T. 0.09 min

Lab File: VL026191.D

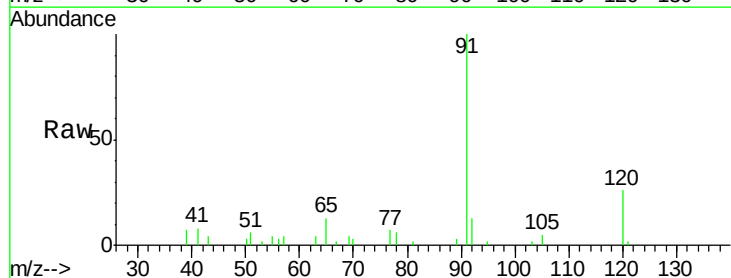
Acq: 10 Oct 2015 00:55

Tgt Ion: 91 Resp: 45365

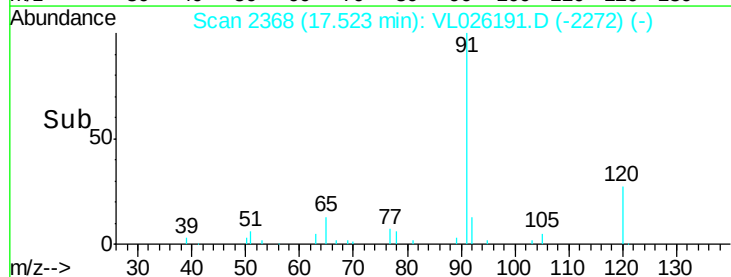
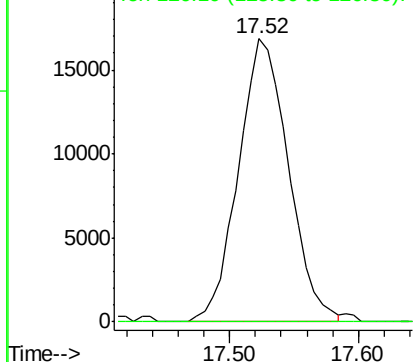
Ion Ratio Lower Upper

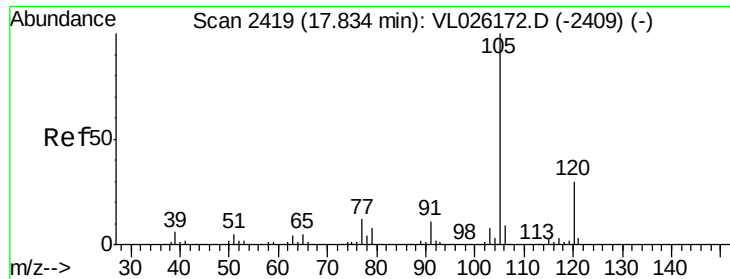
91 100

126 0.0 12.8 51.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): VL0





#72

4-Ethyltoluene

Concen: 0.44 ppbv

RT: 17.83 min Scan# 2418

Delta R.T. -0.01 min

Lab File: VL026191.D

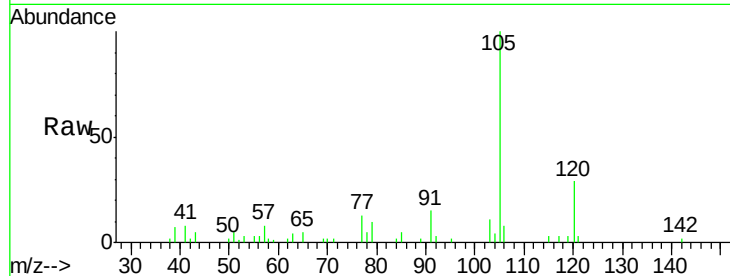
Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	59900
Ion	Ratio	Lower	Upper
105	100		
120	30.4	24.7	37.1
91	14.1	9.2	13.8
77	11.4	9.8	14.8

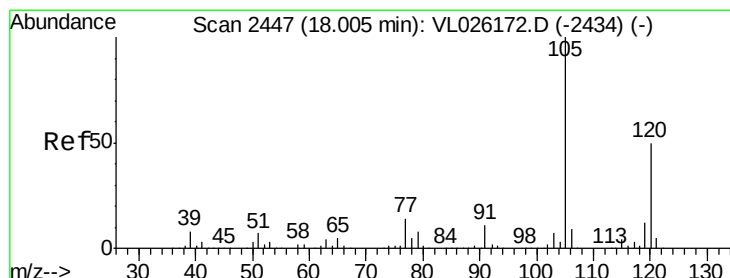
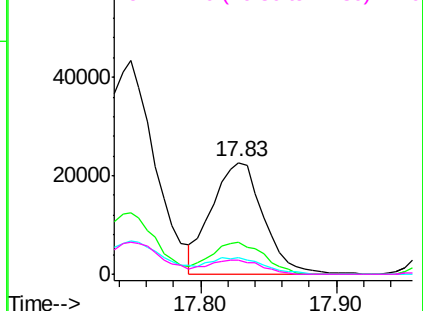
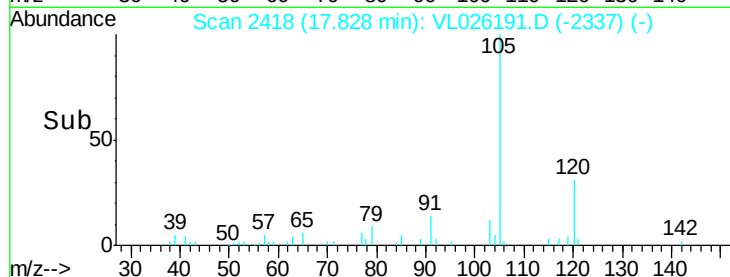


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.44 ppbv

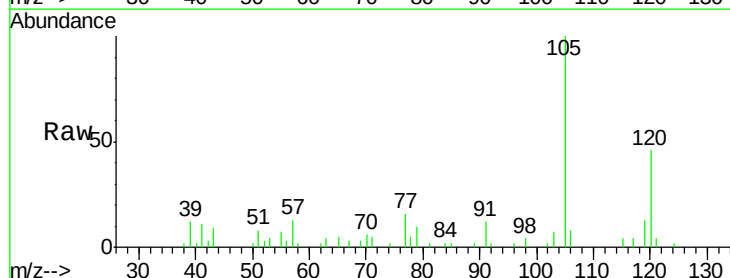
RT: 17.99 min Scan# 2445

Delta R.T. -0.01 min

Lab File: VL026191.D

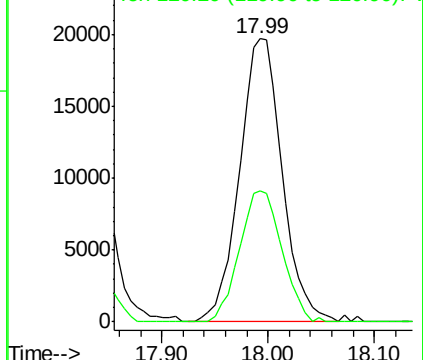
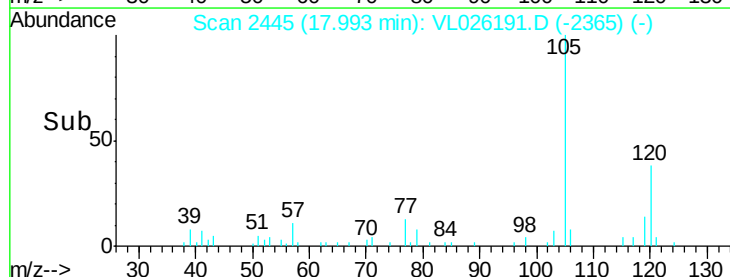
Acq: 10 Oct 2015 00:55

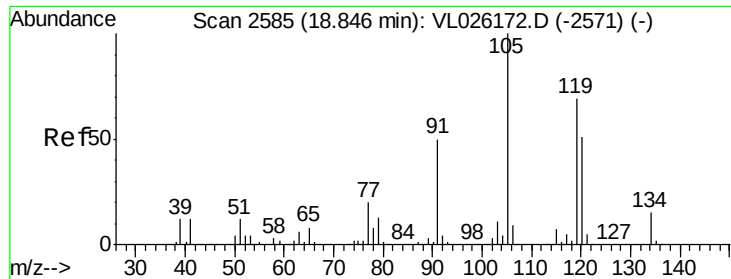
Tgt Ion:	105	Resp:	55248
Ion	Ratio	Lower	Upper
105	100		
120	46.1	40.1	60.1



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: 1.51 ppbv

RT: 18.84 min Scan# 2584

Delta R.T. -0.01 min

Lab File: VL026191.D

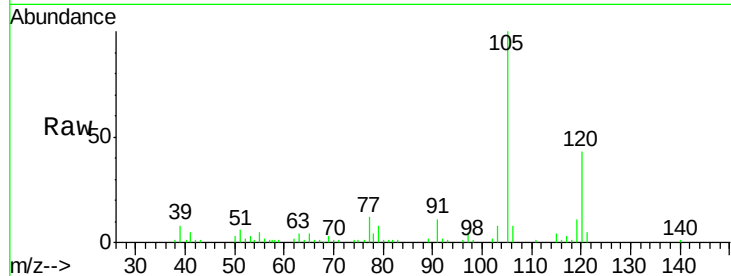
Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	201145
Ion	Ratio	Lower	Upper
105	100		
120	43.3	41.1	61.7
91	10.5	39.8	59.6#
77	11.5	16.3	24.5#

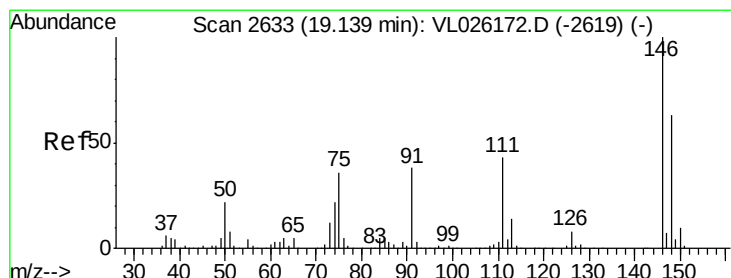
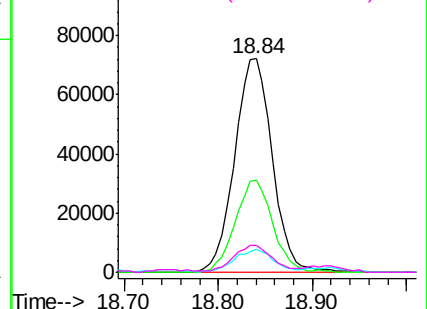
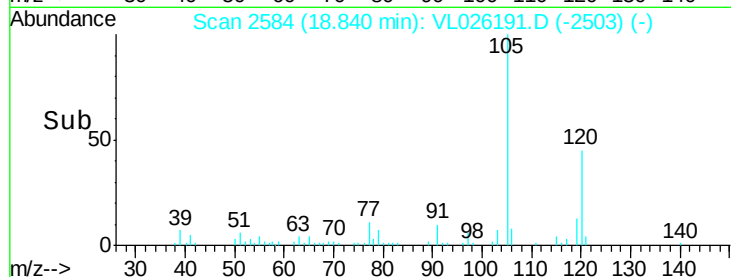


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.06 ppbv

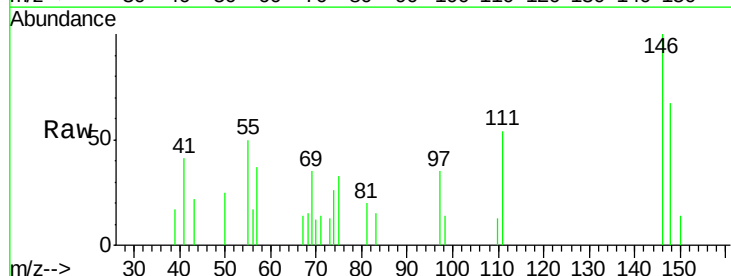
RT: 19.28 min Scan# 2656

Delta R.T. 0.14 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

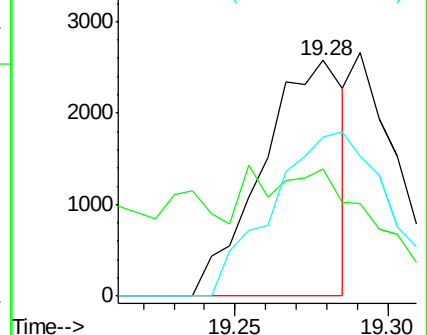
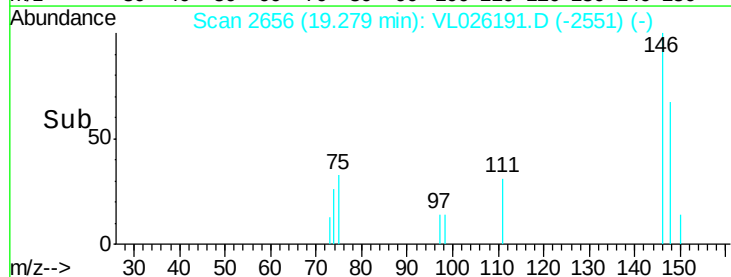
Tgt Ion:	146	Resp:	4784
Ion	Ratio	Lower	Upper
146	100		
111	140.5	22.1	66.3#
148	0.0	31.9	95.5#

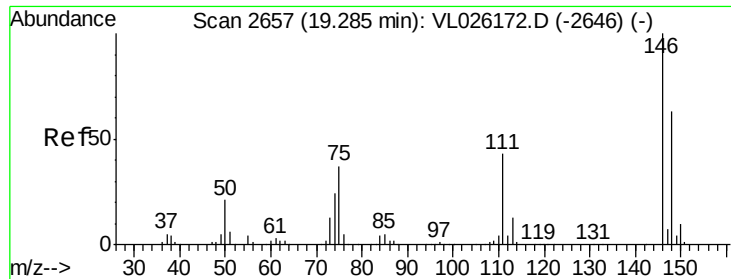


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.06 ppbv

RT: 19.28 min Scan# 2656

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampled :

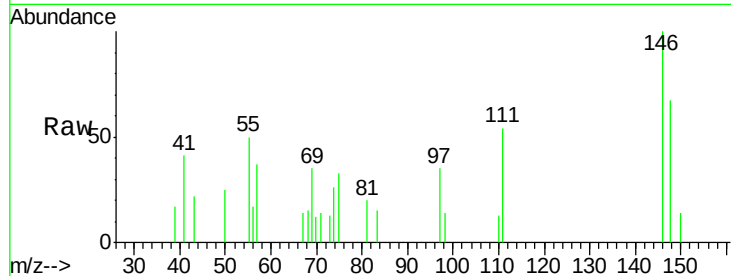
Tot Ion:146 Resp: 4784

Ion Ratio Lower Upper

146 100

111 140.5 21.3 63.9#

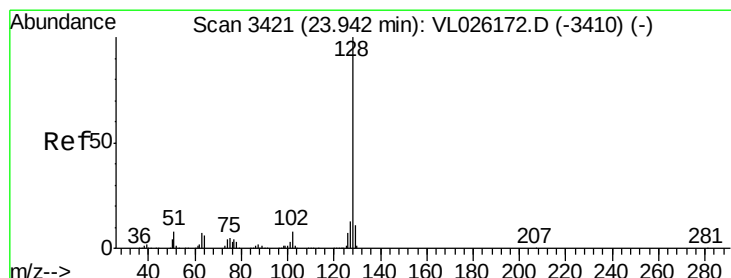
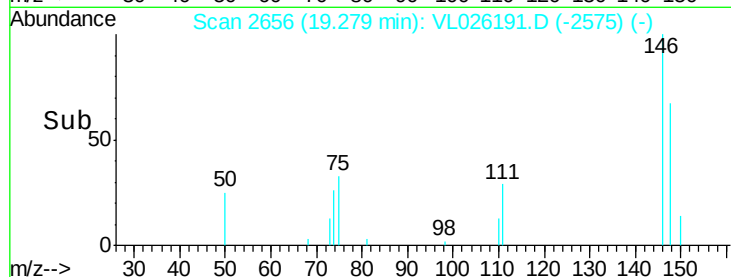
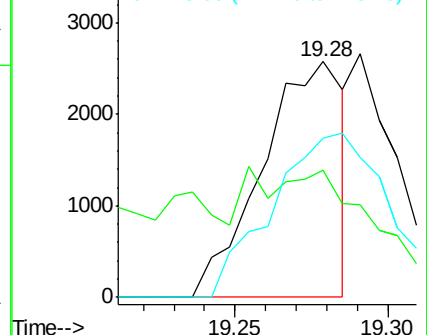
148 0.0 31.6 94.8#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.68 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. -0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

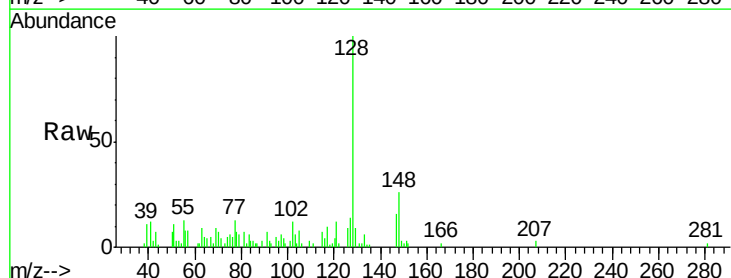
Tgt Ion:128 Resp: 56554

Ion Ratio Lower Upper

128 100

127 14.0 10.2 15.2

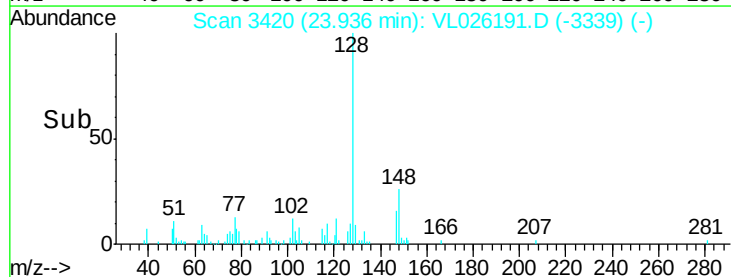
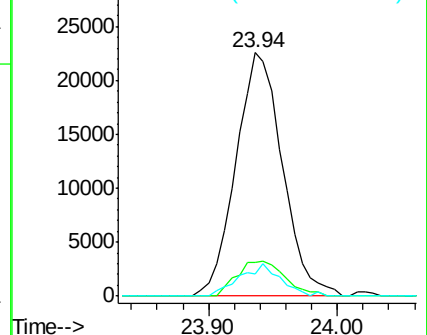
129 9.0 8.7 13.1

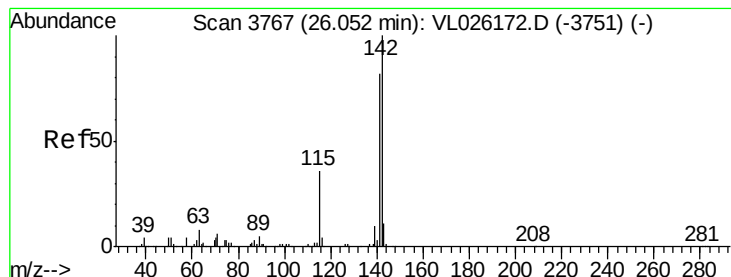


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.14 ppbv

RT: 26.06 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VL026191.D

Acq: 10 Oct 2015 00:55

Instrument :

MSVOA_L

ClientSampleId :

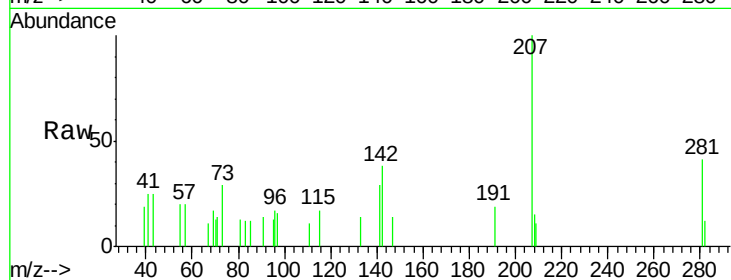
Tot Ion:142 Resp: 2534

Ion Ratio Lower Upper

142 100

141 81.8 66.6 99.8

115 43.9 28.4 42.6



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

