

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026187.D
 Acq On : 9 Oct 2015 22:16
 Operator : SY/MD
 Sample : G3973-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 10 00:14:58 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	6.67	49	794011	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	2309219	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	2421246	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1808103	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.65	85	69598	0.47	ppbv	100
3) Chlorodifluoromethane	3.57	51	142882	1.54	ppbv #	83
4) Chloromethane	3.76	50	26797	0.51	ppbv	96
5) Vinyl Chloride	3.62	62	2049	0.04	ppbv #	43
7) Chloroethane	4.25	64	24127	1.05	ppbv	96
9) Propene	3.60	41	135544	3.18	ppbv #	82
10) Heptane	9.37	43	268968	1.82	ppbv	97
11) Trichlorofluoromethane	4.70	101	33598	0.23	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	5.32	101	6921	0.07	ppbv	100
13) Ethanol	4.33	45	658201	105.09	ppbv	92
15) Acetone	4.60	43	1742118	16.97	ppbv #	89
16) 1,3-Butadiene	3.95	39	47497	1.00	ppbv #	40
17) tert-Butyl alcohol	5.15	59	104055	1.68	ppbv	94
19) Isopropyl Alcohol	4.77	45	340043	8.51	ppbv #	1
20) Methylene Chloride	5.16	84	56050	1.28	ppbv	97
21) Allyl Chloride	5.18	41	64537	0.96	ppbv #	63
23) Vinyl Acetate	6.02	43	714226	3.93	ppbv #	46
25) Ethyl Acetate	6.67	43	315396	1.59	ppbv #	82
26) Hexane	6.67	57	410915	4.28	ppbv #	51
27) Carbon Disulfide	5.40	76	345342	3.00	ppbv	98
29) Chloroform	6.76	83	12869	0.09	ppbv	91
30) Cyclohexane	8.29	84	147488	1.61	ppbv #	79
31) cis-1,2-Dichloroethene	6.68	61	5297	0.06	ppbv #	33
34) 2-Butanone	6.21	43	172743	1.34	ppbv	97
35) Carbon Tetrachloride	8.17	117	10129	0.07	ppbv	97
36) Benzene	8.04	78	375961	1.70	ppbv	98
37) 1,2-Dichloroethane	7.38	62	3911	0.03	ppbv #	78
41) Tetrahydrofuran	7.15	42	27910	0.39	ppbv #	67
42) Bromodichloromethane	9.02	83	23311	0.15	ppbv #	29
43) Methyl Methacrylate	9.29	69	9935	0.13	ppbv #	1
44) 2,2,4-Trimethylpentane	9.10	57	1463618	3.99	ppbv #	89
50) 4-Methyl-2-Pentanone	10.12	43	163780	0.96	ppbv	96
51) 2-Hexanone	11.65	43	35577	0.23	ppbv #	79
52) Tetrachloroethene	12.81	164	5945	0.05	ppbv	97
53) Toluene	11.25	91	1876275	6.59	ppbv	99
58) Ethyl Benzene	14.43	91	449982	1.28	ppbv	98
59) m/p-Xylene	14.70	91	1184205	4.20	ppbv	98
60) o-Xylene	15.50	91	410349	1.39	ppbv	99
61) Styrene	15.32	104	134234	1.11	ppbv	99
62) Isopropylbenzene	16.56	105	41478	0.11	ppbv	97
64) n-propylbenzene	17.53	120	26410	0.25	ppbv	92

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 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

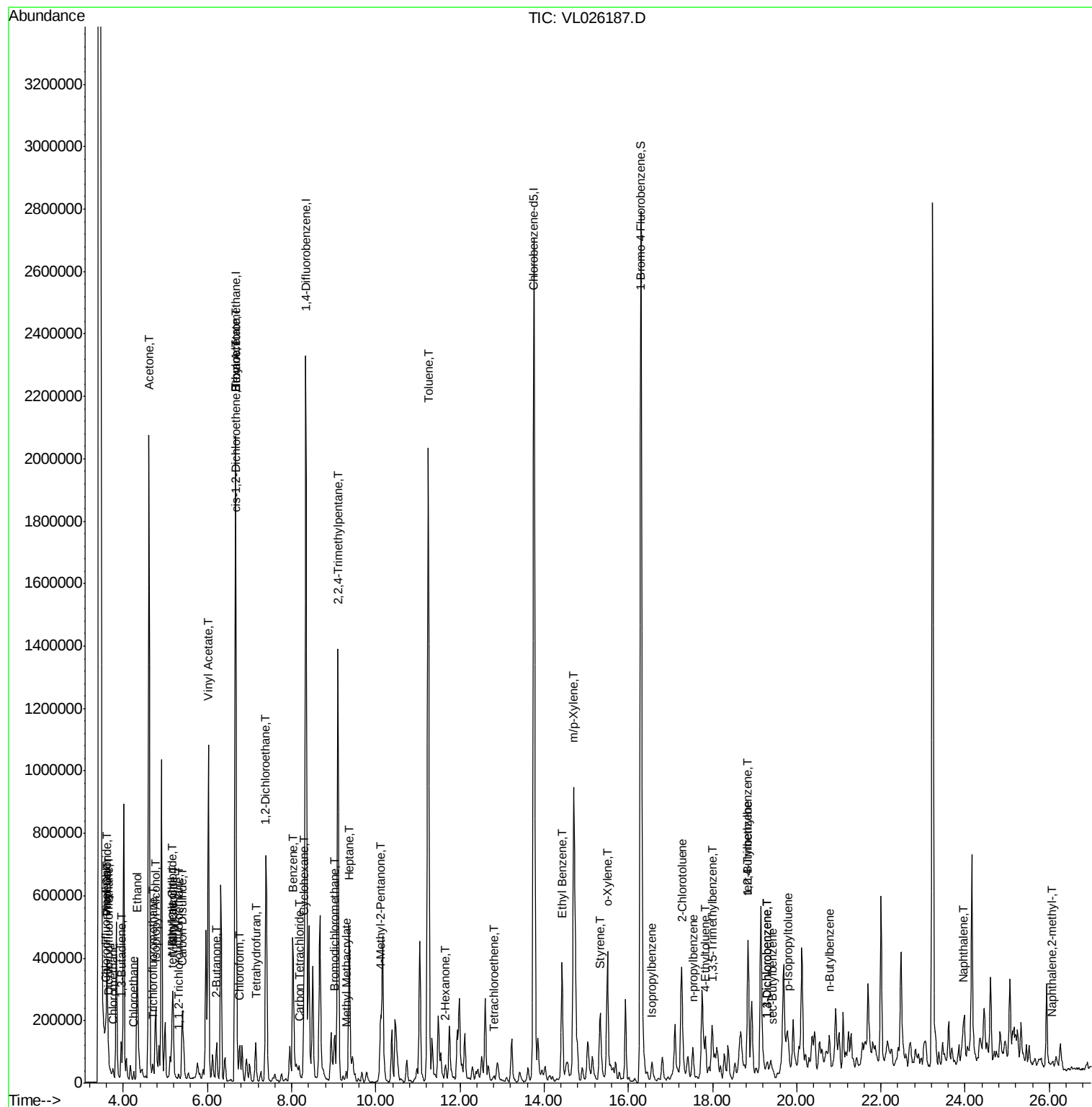
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	18.84	119	43267	0.13	ppbv #	57
67) sec-Butylbenzene	19.43	105	16384	0.03	ppbv	97
69) p-Isopropyltoluene	19.79	119	35693	0.09	ppbv #	76
70) n-Butylbenzene	20.77	91	31729	0.09	ppbv #	53
71) 2-Chlorotoluene	17.27	91	64753	0.23	ppbv	77
72) 4-Ethyltoluene	17.83	105	135717	0.43	ppbv	98
73) 1,3,5-Trimethylbenzene	18.00	105	104912	0.35	ppbv	99
74) 1,2,4-Trimethylbenzene	18.84	105	357713	1.15	ppbv #	70
75) 1,3-Dichlorobenzene	19.28	146	15011	0.08	ppbv #	52
76) 1,4-Dichlorobenzene	19.28	146	15011	0.07	ppbv #	52
79) Naphthalene	23.95	128	74570	0.38	ppbv	97
80) Naphthalene,2-methyl-	26.06	142	3877	0.09	ppbv #	45

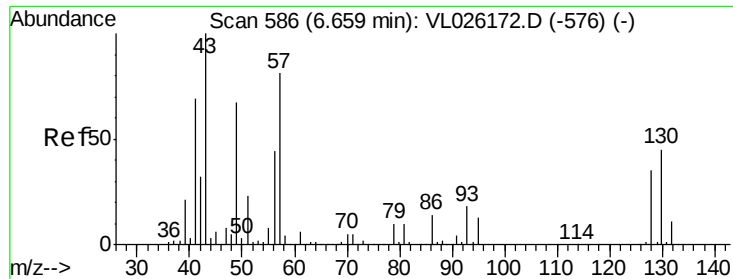
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :
MSVOA_L
ClientSampleId :

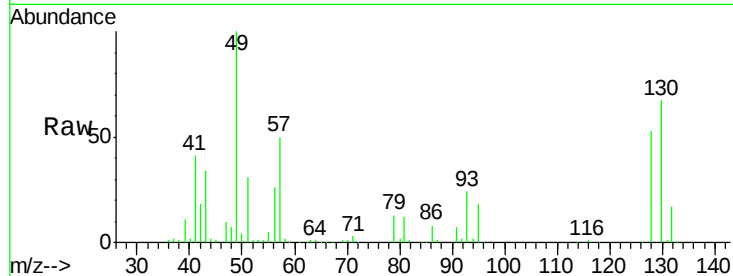
Tot Ion: 49 Resp: 794011

Ion Ratio Lower Upper

49 100

128 54.1 26.3 78.8

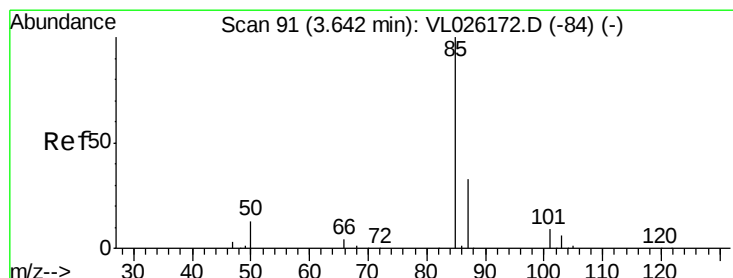
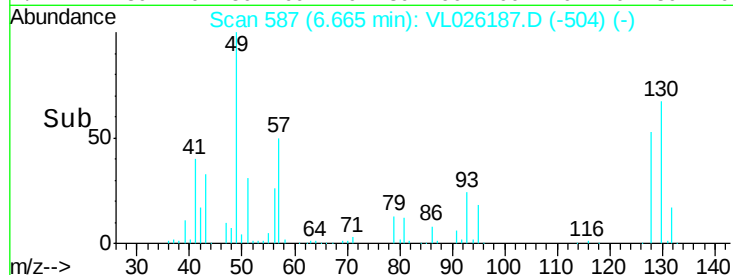
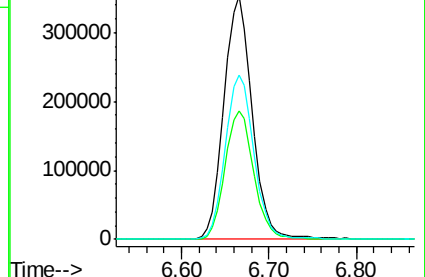
130 69.4 34.2 102.5



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: 0.47 ppbv

RT: 3.65 min Scan# 92

Delta R.T. 0.01 min

Lab File: VL026187.D

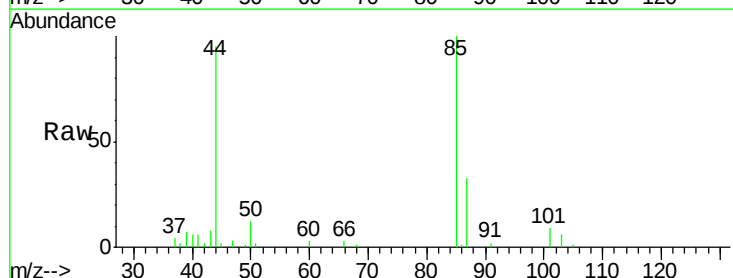
Acq: 9 Oct 2015 22:16

Tgt Ion: 85 Resp: 69598

Ion Ratio Lower Upper

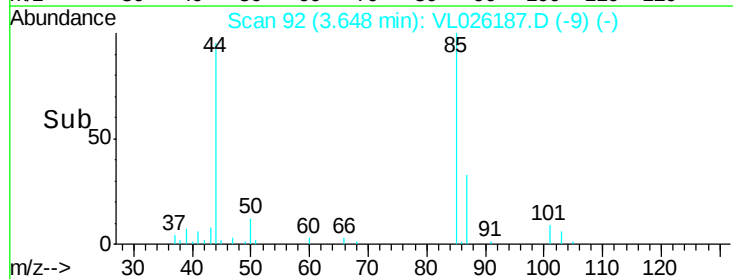
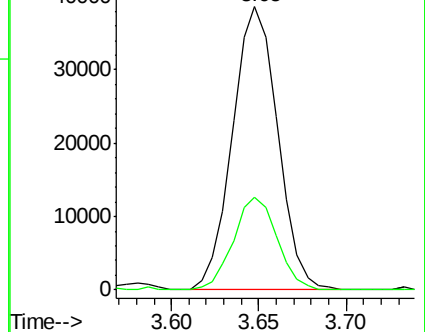
85 100

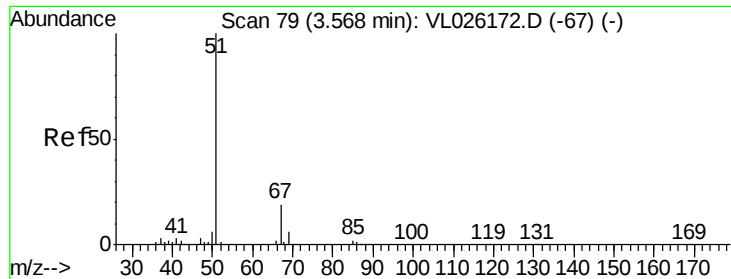
87 32.9 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.54 ppbv

RT: 3.57 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

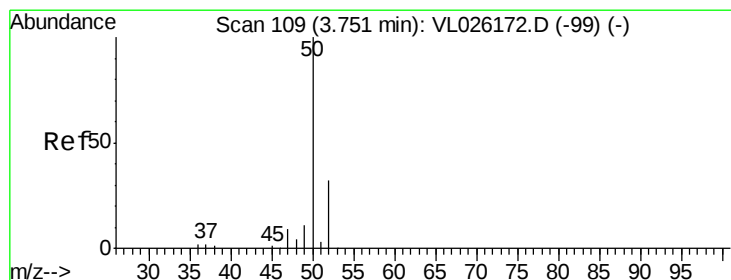
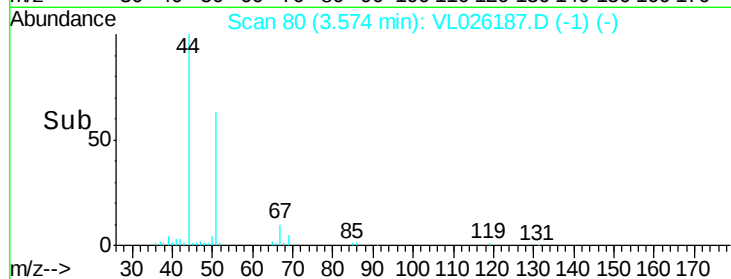
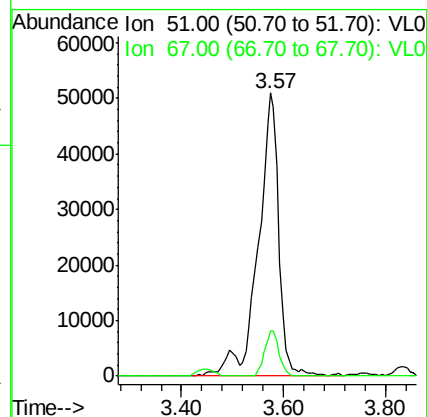
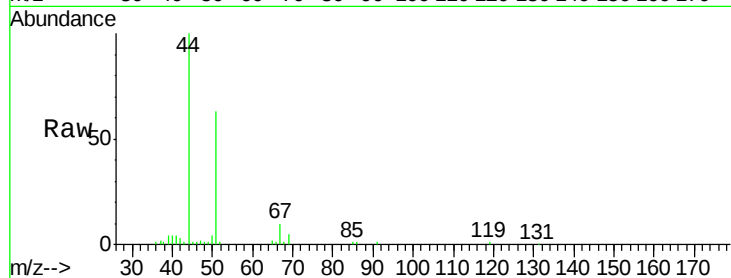
ClientSampleId :

Tot Ion: 51 Resp: 142882

Ion Ratio Lower Upper

51 100

67 11.1 14.9 22.3#



#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.76 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL026187.D

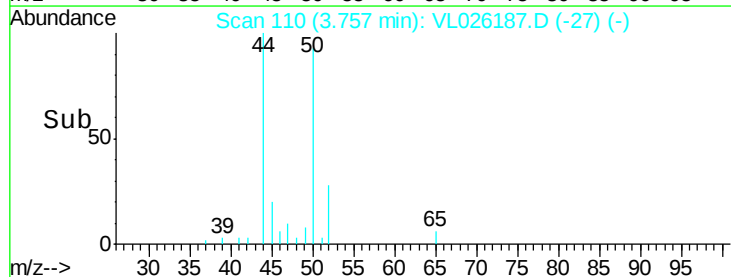
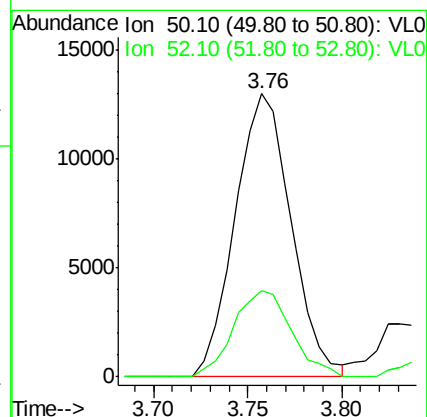
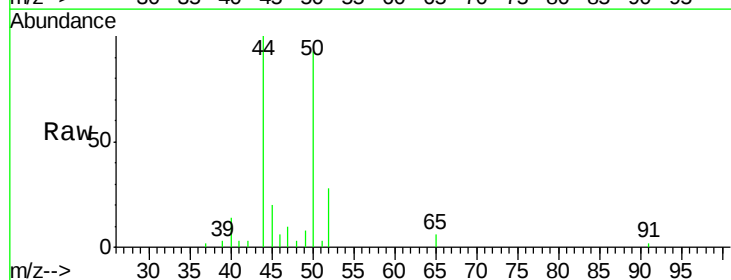
Acq: 9 Oct 2015 22:16

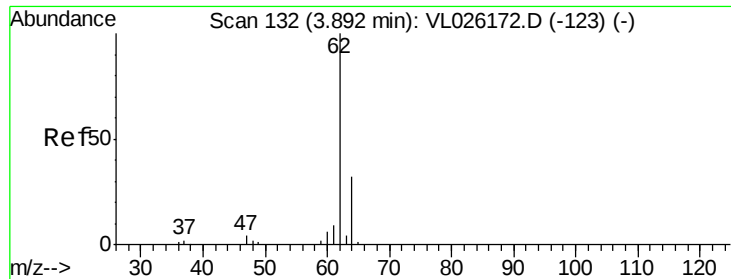
Tgt Ion: 50 Resp: 26797

Ion Ratio Lower Upper

50 100

52 30.4 25.9 38.9





#5

Vinyl Chloride

Concen: 0.04 ppbv

RT: 3.62 min Scan# 87

Delta R.T. -0.27 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

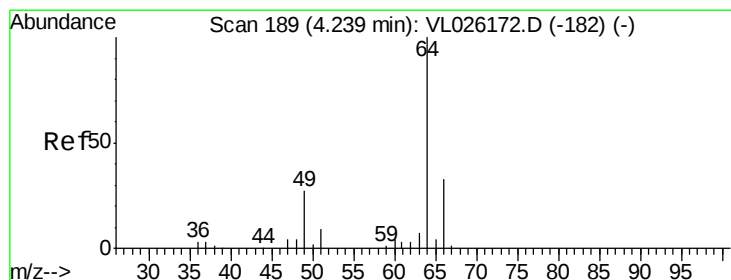
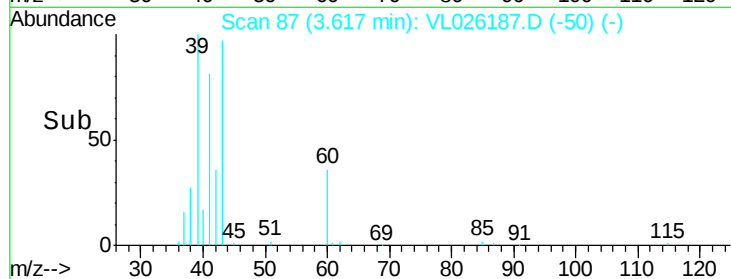
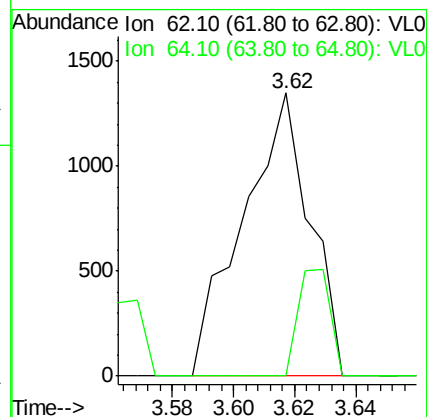
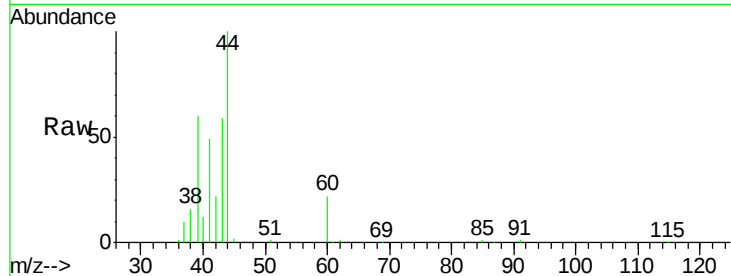
ClientSampleId :

Tot Ion: 62 Resp: 2049

Ion Ratio Lower Upper

62 100

64 0.0 25.6 38.4#



#7

Chloroethane

Concen: 1.05 ppbv

RT: 4.25 min Scan# 191

Delta R.T. 0.01 min

Lab File: VL026187.D

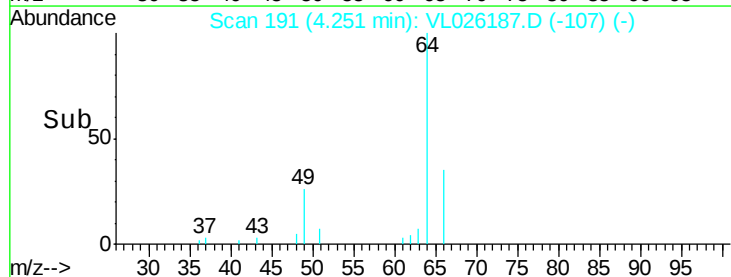
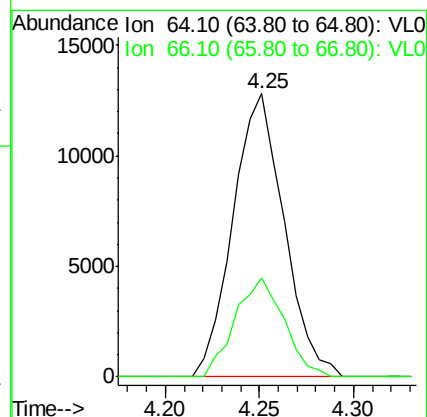
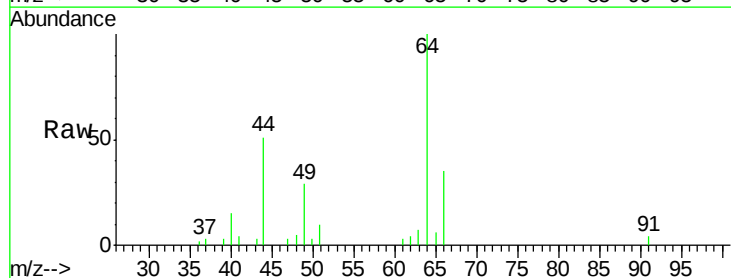
Acq: 9 Oct 2015 22:16

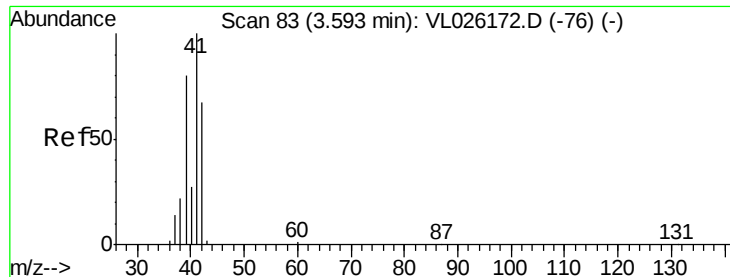
Tgt Ion: 64 Resp: 24127

Ion Ratio Lower Upper

64 100

66 35.1 26.5 39.7





#9

Propene

Concen: 3.18 ppbv

RT: 3.60 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

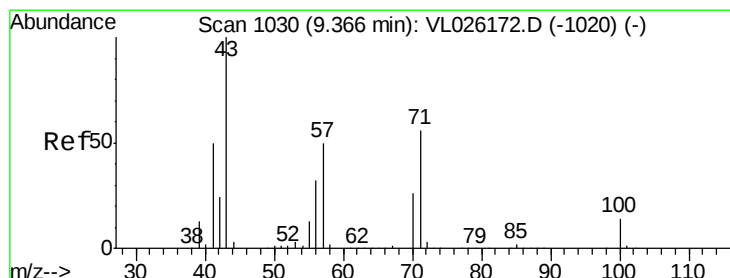
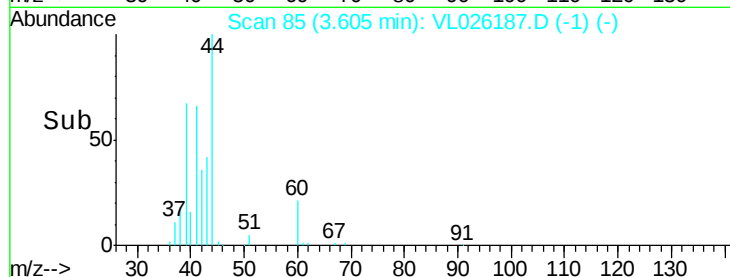
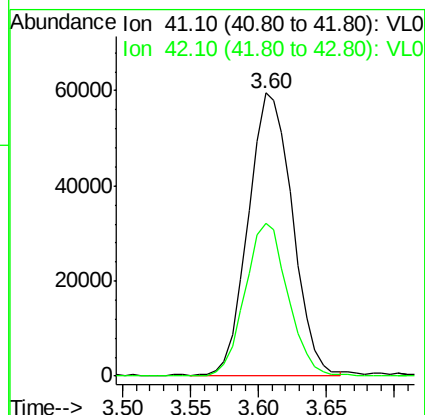
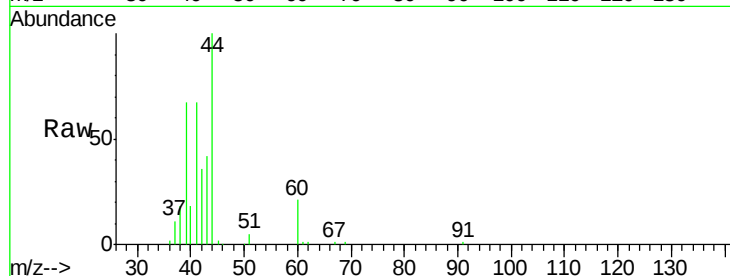
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 135544

Ion Ratio Lower Upper

41 100

42 52.2 53.6 80.4#



#10

Heptane

Concen: 1.82 ppbv

RT: 9.37 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VL026187.D

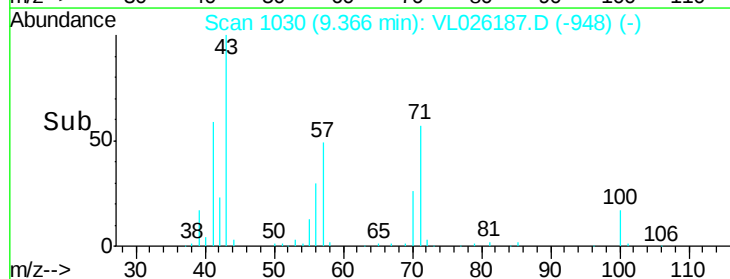
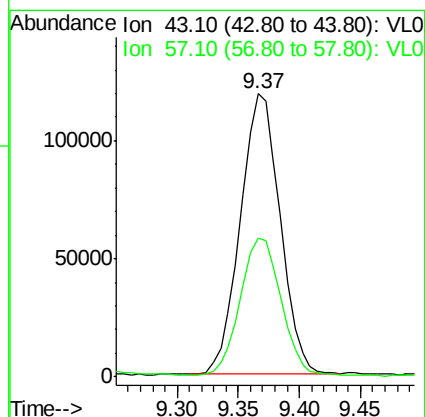
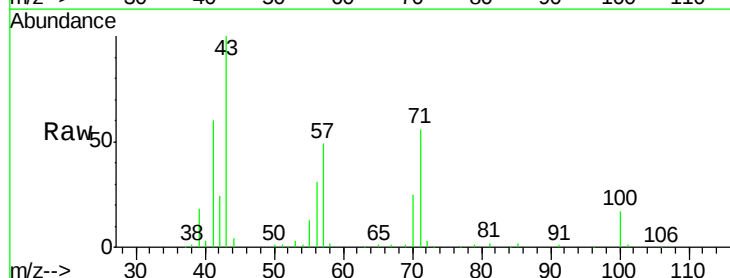
Acq: 9 Oct 2015 22:16

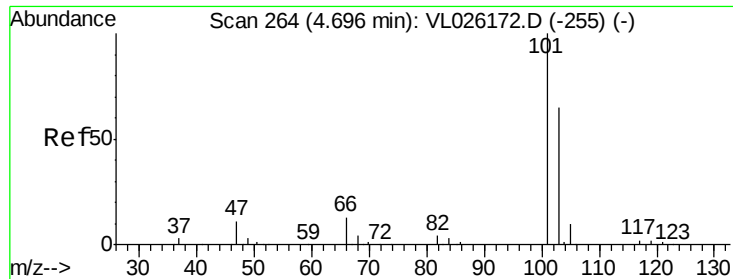
Tgt Ion: 43 Resp: 268968

Ion Ratio Lower Upper

43 100

57 50.3 41.8 62.8

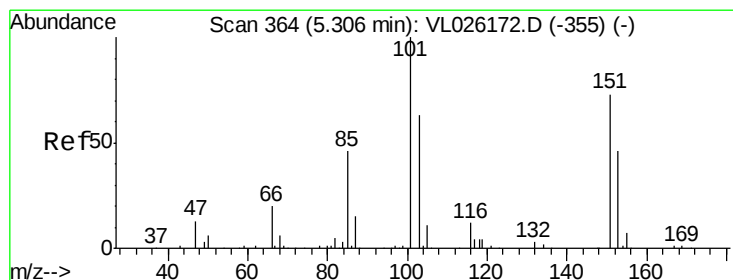
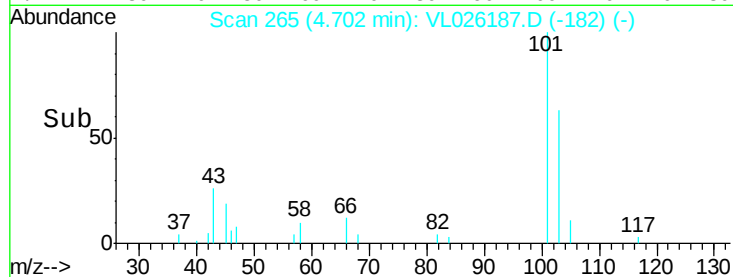
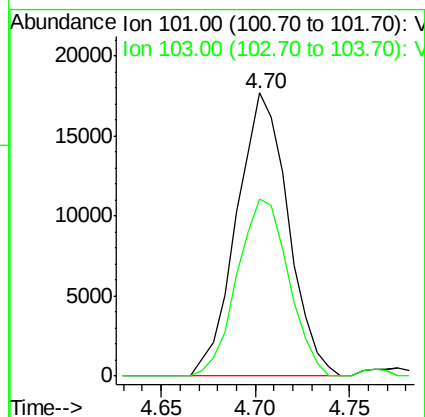
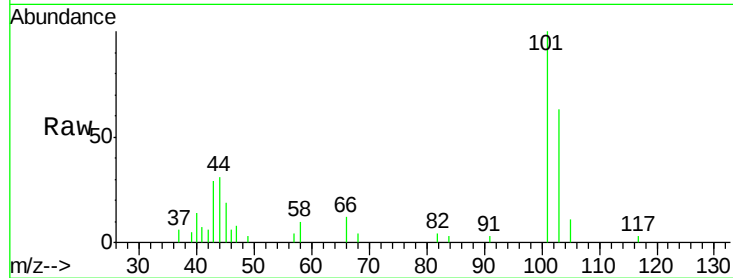




#11
 Trichlorofluoromethane
 Concen: 0.23 ppbv
 RT: 4.70 min Scan# 265
 Delta R.T. 0.01 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

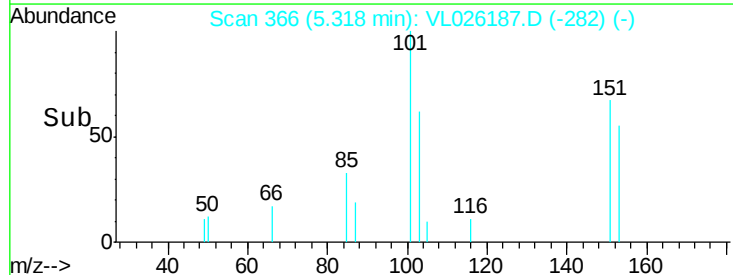
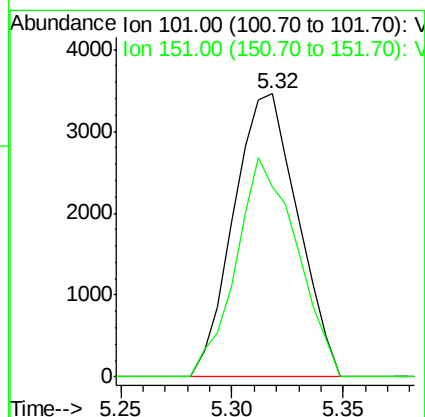
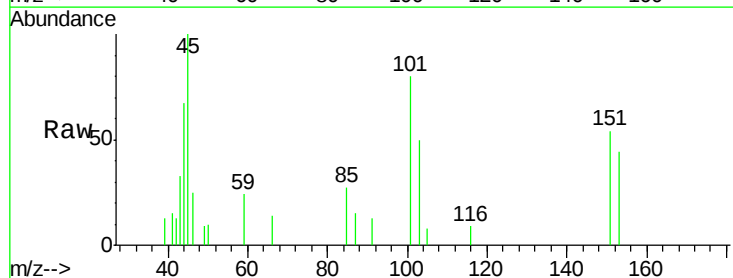
Instrument :
 MSVOA_L
 ClientSampleId :

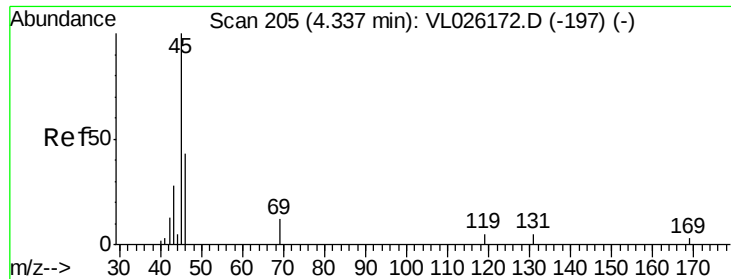
Tot Ion:101 Resp: 33598
 Ion Ratio Lower Upper
 101 100
 103 62.7 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.07 ppbv
 RT: 5.32 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

Tgt Ion:101 Resp: 6921
 Ion Ratio Lower Upper
 101 100
 151 73.4 59.0 88.6





#13

Ethanol

Concen: 105.09 ppbv

RT: 4.33 min Scan# 204

Delta R.T. -0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

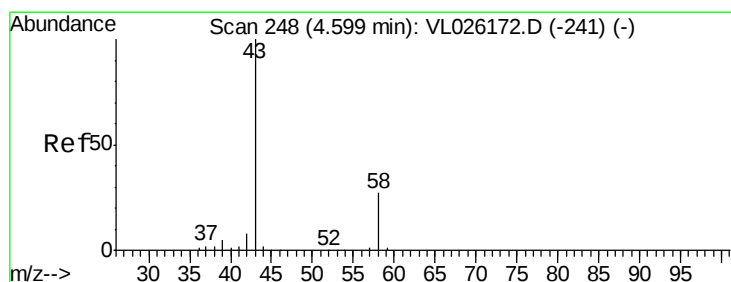
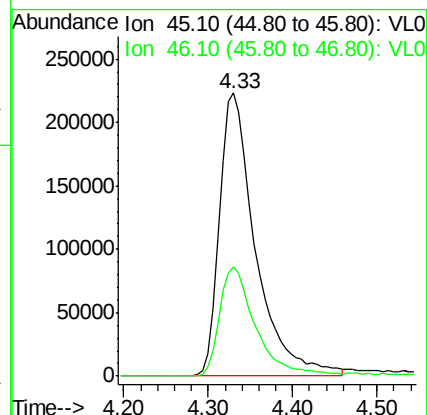
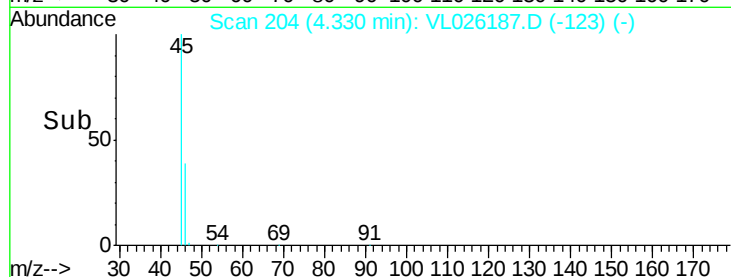
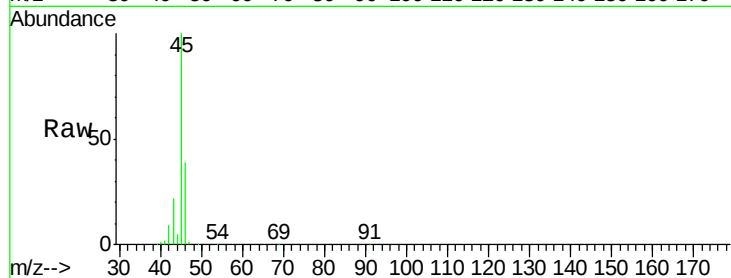
ClientSampleId :

Tot Ion: 45 Resp: 658201

Ion Ratio Lower Upper

45 100

46 40.0 18.1 72.5



#15

Acetone

Concen: 16.97 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL026187.D

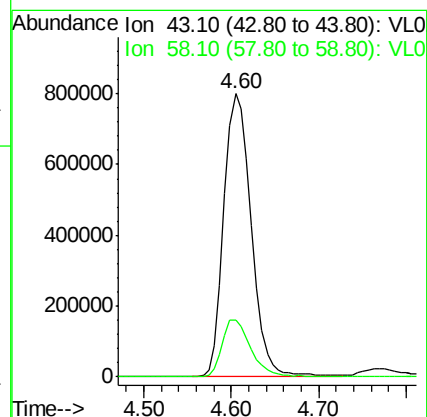
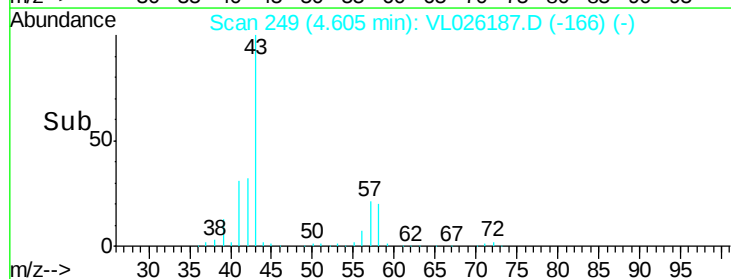
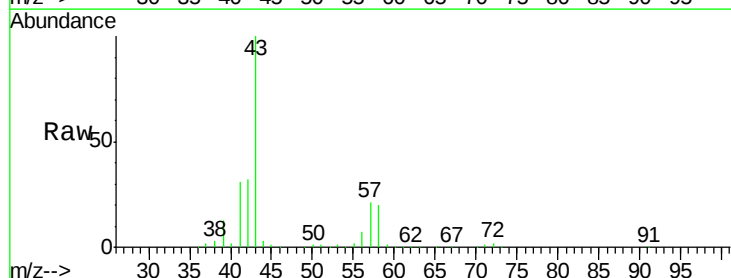
Acq: 9 Oct 2015 22:16

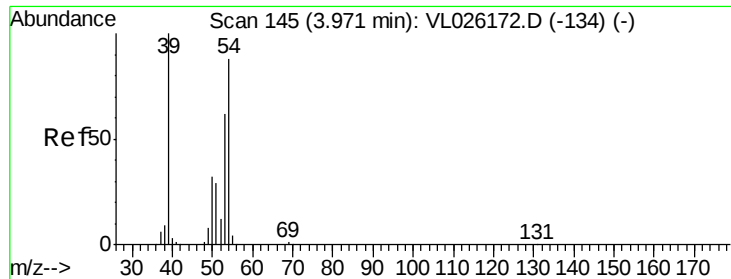
Tgt Ion: 43 Resp: 1742118

Ion Ratio Lower Upper

43 100

58 21.7 22.0 33.0#





#16

1,3-Butadiene

Concen: 1.00 ppbv

RT: 3.95 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

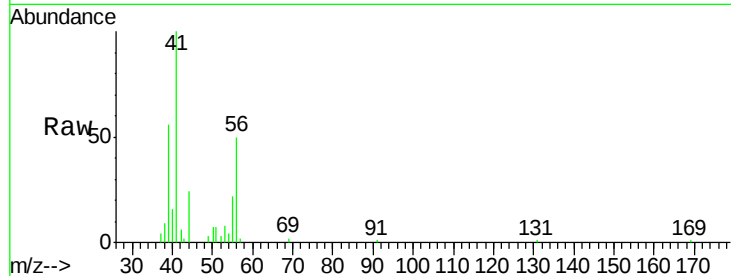
ClientSampleId :

Tot Ion: 39 Resp: 47497

Ion Ratio Lower Upper

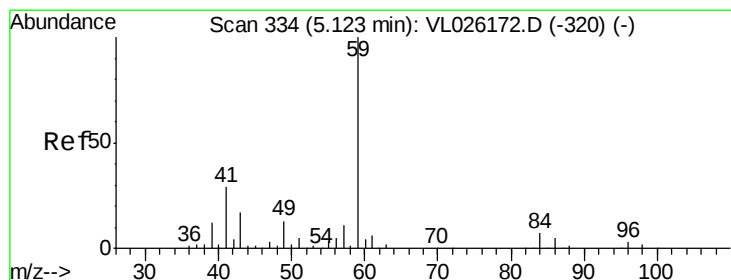
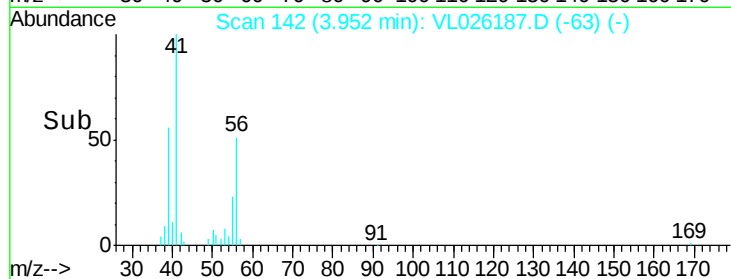
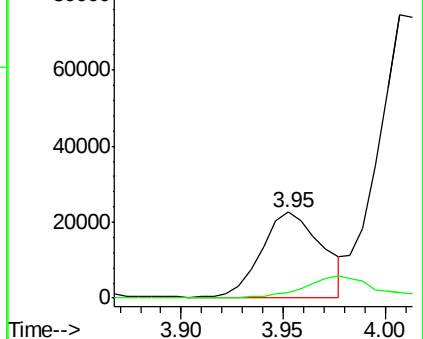
39 100

54 30.2 67.9 101.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#17

tert-Butyl alcohol

Concen: 1.68 ppbv

RT: 5.15 min Scan# 339

Delta R.T. 0.03 min

Lab File: VL026187.D

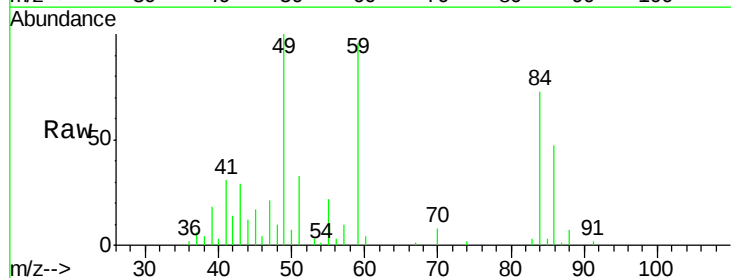
Acq: 9 Oct 2015 22:16

Tgt Ion: 59 Resp: 104055

Ion Ratio Lower Upper

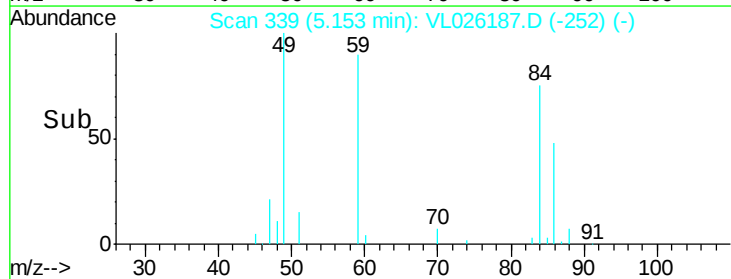
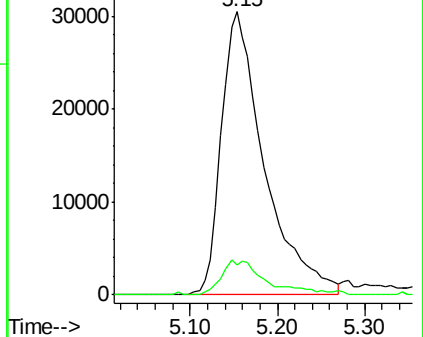
59 100

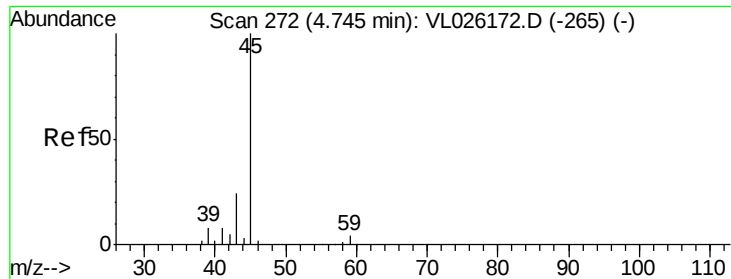
57 13.1 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 8.51 ppbv

RT: 4.77 min Scan# 276

Delta R.T. 0.02 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

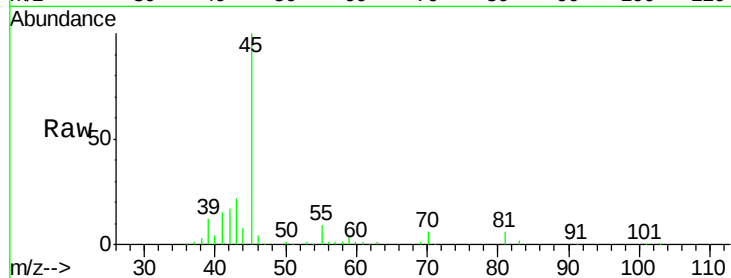
ClientSampleId :

Tot Ion: 45 Resp: 340043

Ion Ratio Lower Upper

45 100

58 111.2 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.77

120000

100000

80000

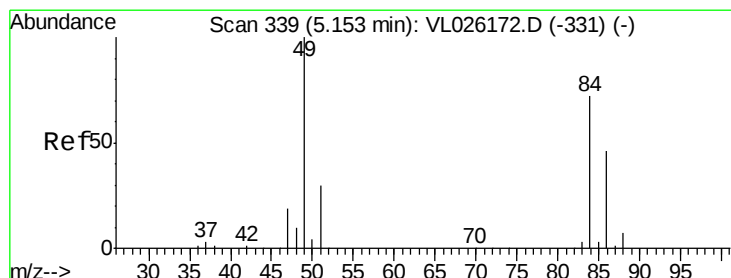
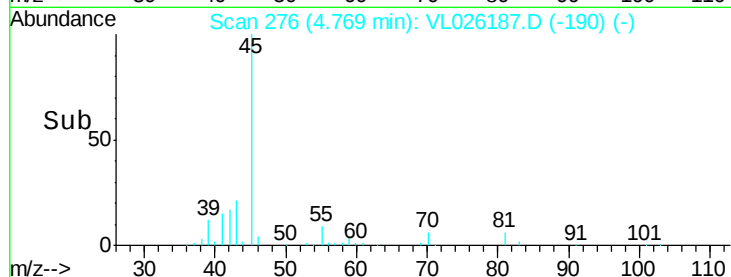
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 1.28 ppbv

RT: 5.16 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Tgt Ion: 84 Resp: 56050

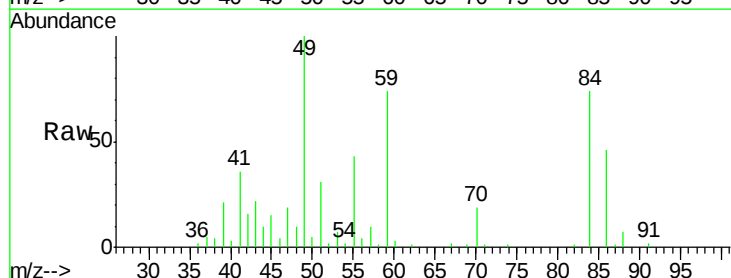
Ion Ratio Lower Upper

84 100

49 135.3 111.3 166.9

51 42.4 33.0 49.6

86 62.7 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

50000

40000

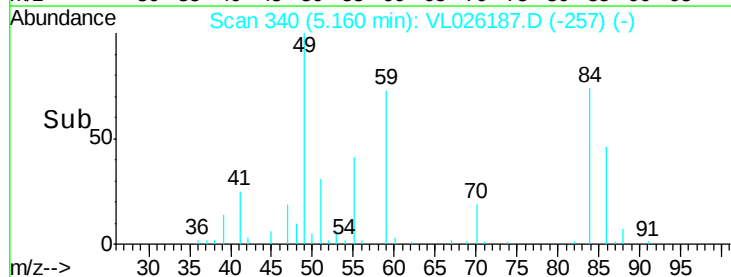
30000

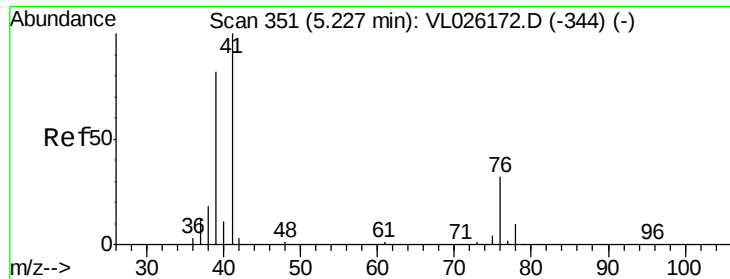
20000

10000

0

Time-->

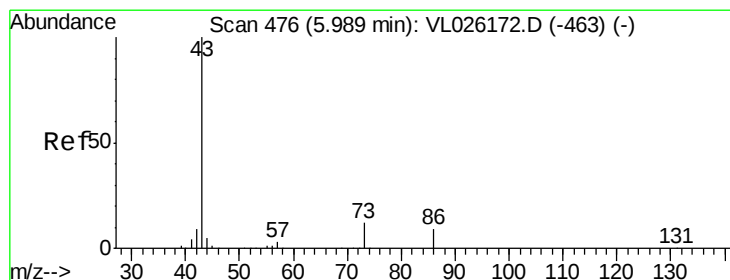
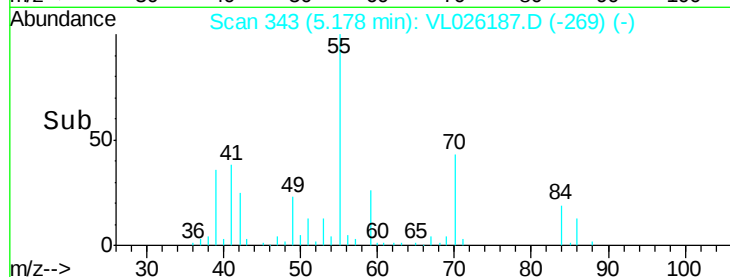
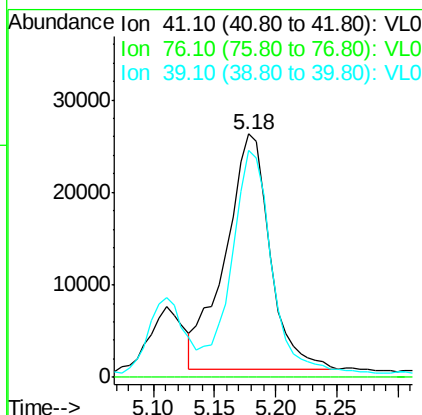
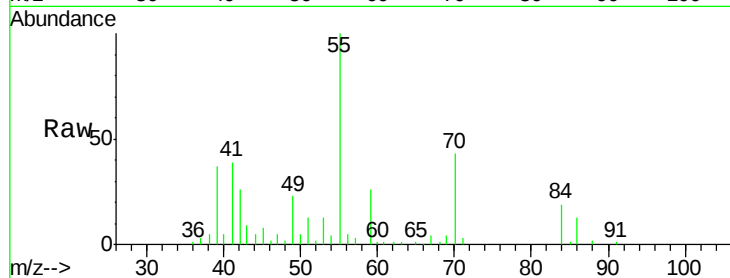




#21
Allvl Chloride
Concen: 0.96 ppbv
RT: 5.18 min Scan# 343
Delta R.T. -0.05 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

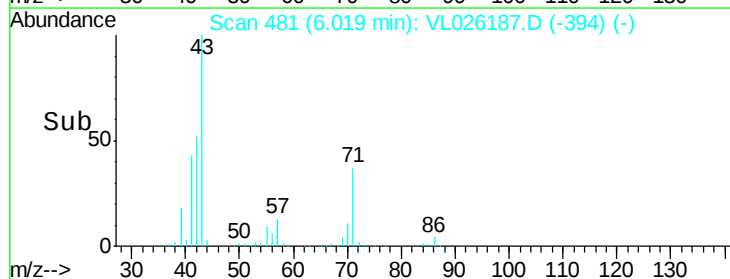
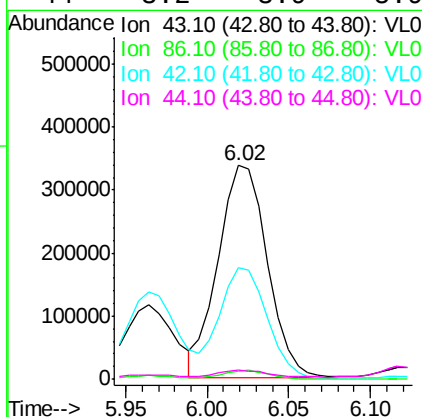
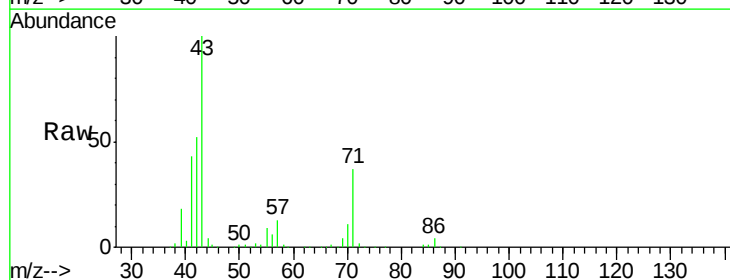
Instrument :
MSVOA_L
ClientSampleId :

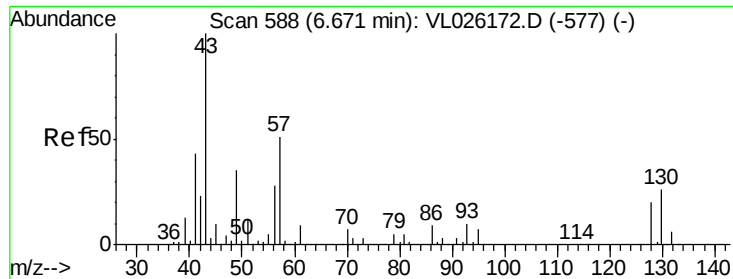
Tot Ion: 41 Resp: 64537
Ion Ratio Lower Upper
41 100
76 0.0 25.4 38.2#
39 109.2 66.5 99.7#



#23
Vinyl Acetate
Concen: 3.93 ppbv
RT: 6.02 min Scan# 481
Delta R.T. 0.03 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Tgt Ion: 43 Resp: 714226
Ion Ratio Lower Upper
43 100
86 3.8 7.2 10.8#
42 52.5 7.4 11.2#
44 3.2 3.9 5.9#

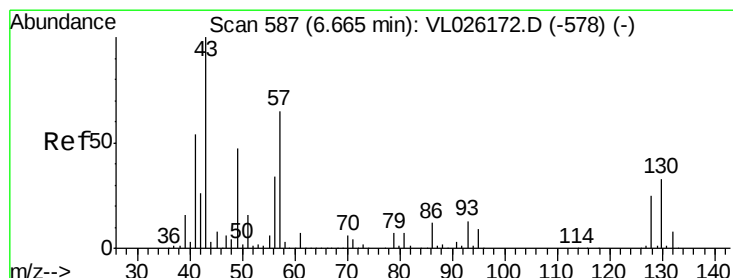
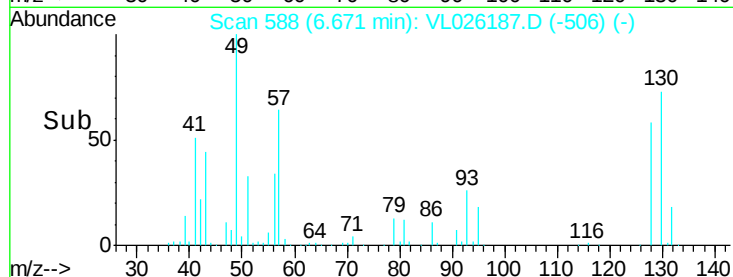
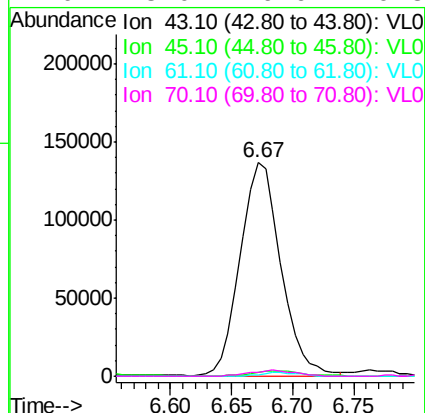
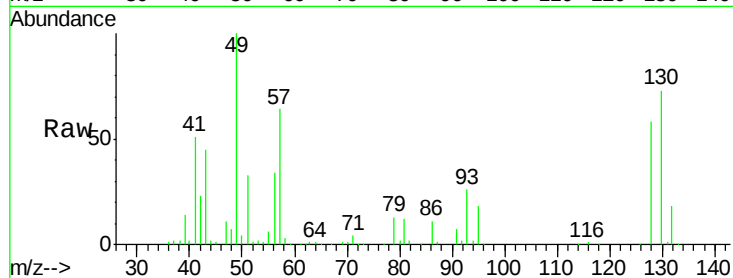




#25
Ethyl Acetate
Concen: 1.59 ppbv
RT: 6.67 min Scan# 588
Delta R.T. -0.00 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

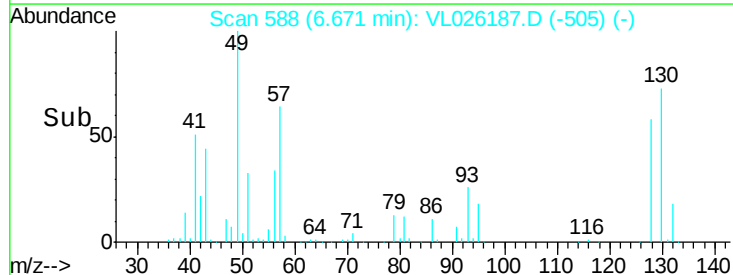
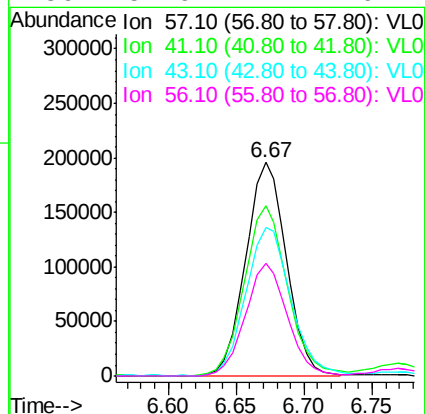
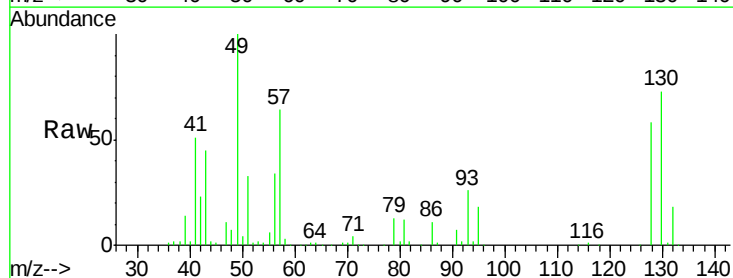
Instrument :
MSVOA_L
ClientSampleId :

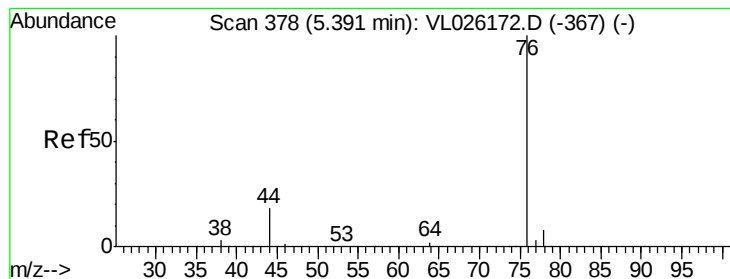
Tot Ion:	43	Resp:	315396
Ion	Ratio	Lower	Upper
43	100		
45	3.3	7.7	11.5#
61	1.7	7.4	11.2#
70	3.0	6.6	9.8#



#26
Hexane
Concen: 4.28 ppbv
RT: 6.67 min Scan# 588
Delta R.T. 0.01 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Tgt Ion:	57	Resp:	410915
Ion	Ratio	Lower	Upper
57	100		
41	84.7	68.0	102.0
43	79.7	164.4	246.6#
56	54.6	42.7	64.1





#27

Carbon Disulfide

Concen: 3.00 ppbv

RT: 5.40 min Scan# 380

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

ClientSampleId :

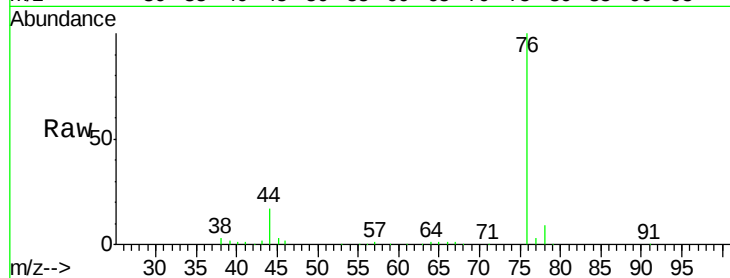
Tot Ion: 76 Resp: 345342

Ion Ratio Lower Upper

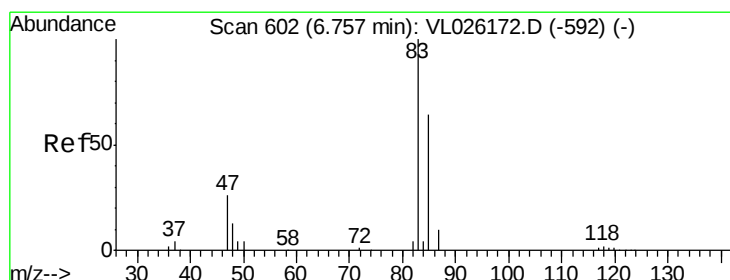
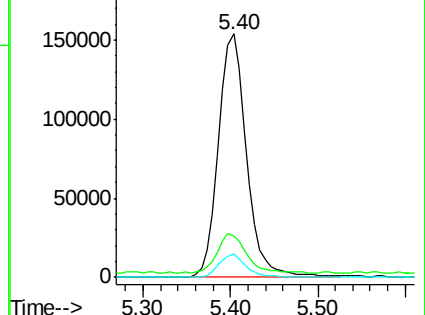
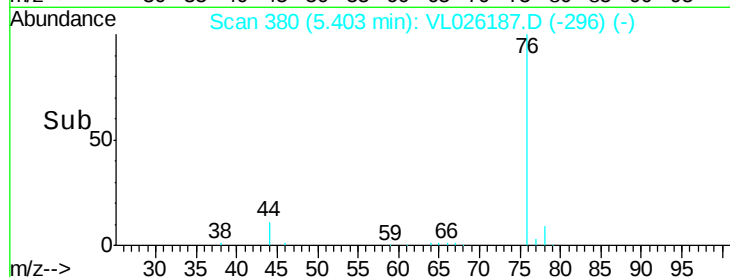
76 100

44 17.0 14.2 21.4

78 9.0 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



#29

Chloroform

Concen: 0.09 ppbv

RT: 6.76 min Scan# 603

Delta R.T. 0.01 min

Lab File: VL026187.D

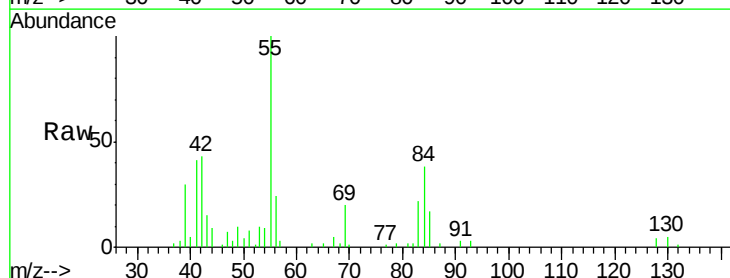
Acq: 9 Oct 2015 22:16

Tgt Ion: 83 Resp: 12869

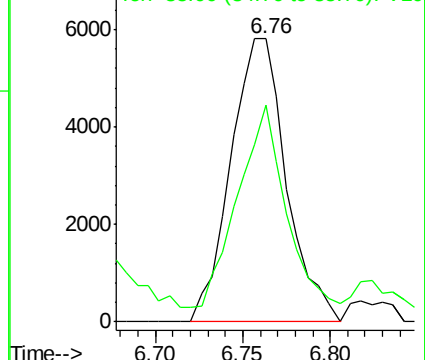
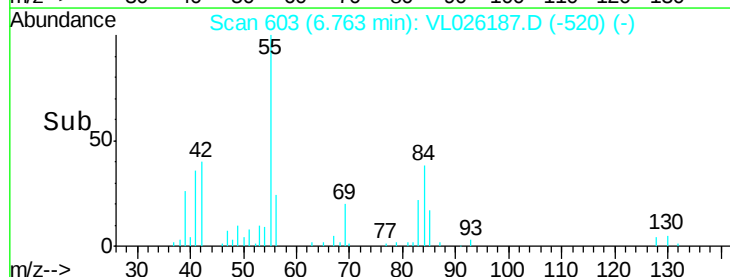
Ion Ratio Lower Upper

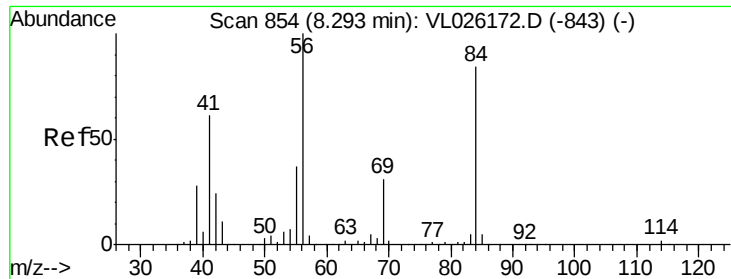
83 100

85 71.5 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

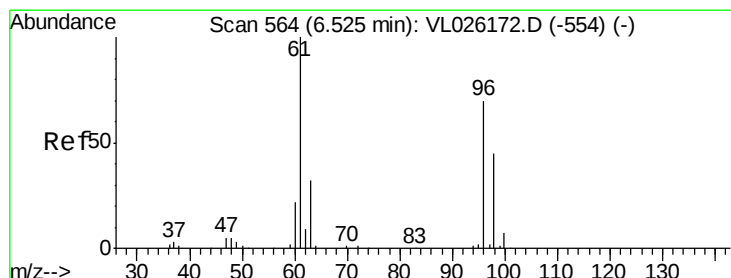
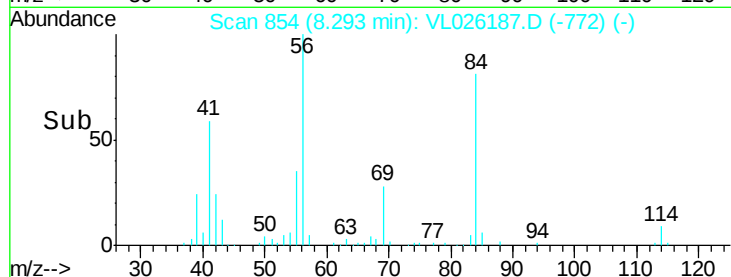
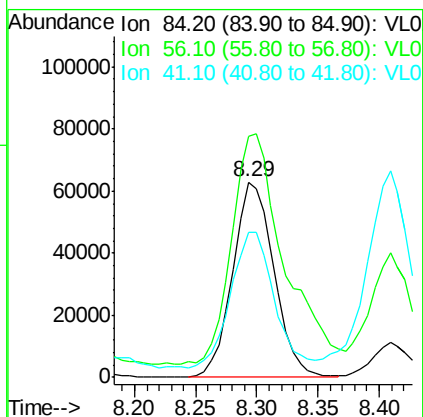
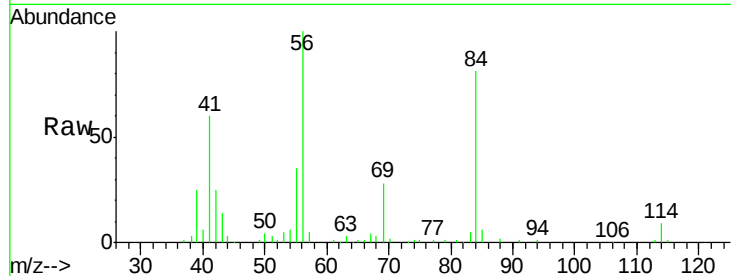




#30
Cyclohexane
Concen: 1.61 ppbv
RT: 8.29 min Scan# 854
Delta R.T. -0.00 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

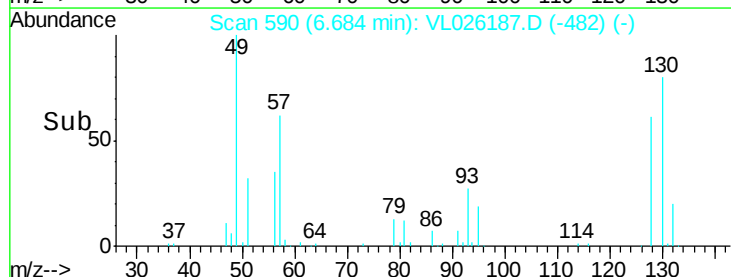
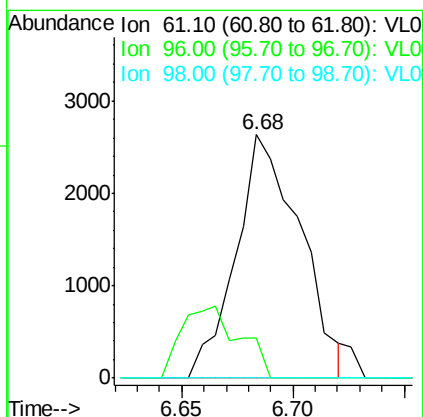
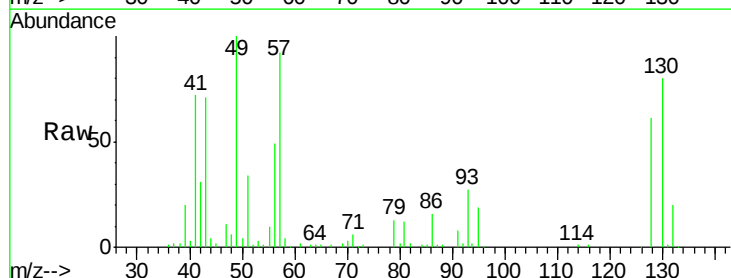
Instrument :
MSVOA_L
ClientSampled :

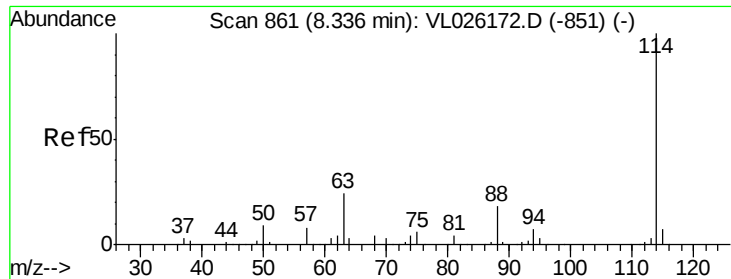
Tot Ion: 84 Resp: 147488
Ion Ratio Lower Upper
84 100
56 158.3 99.8 149.8#
41 78.7 58.1 87.1



#31
cis-1,2-Dichloroethene
Concen: 0.06 ppbv
RT: 6.68 min Scan# 590
Delta R.T. 0.16 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Tgt Ion: 61 Resp: 5297
Ion Ratio Lower Upper
61 100
96 16.4 55.8 83.8#
98 0.0 35.8 53.6#

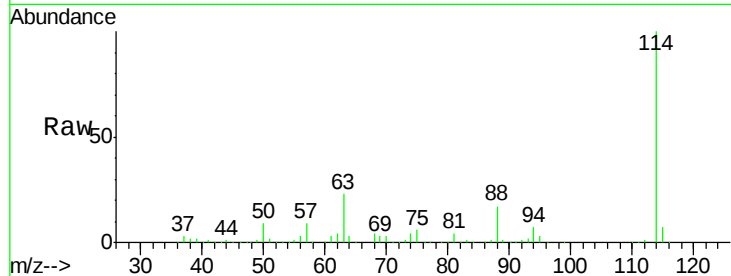




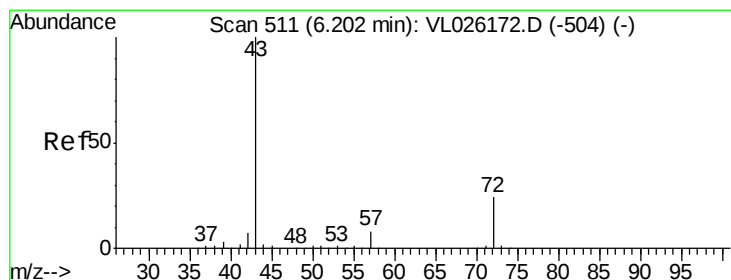
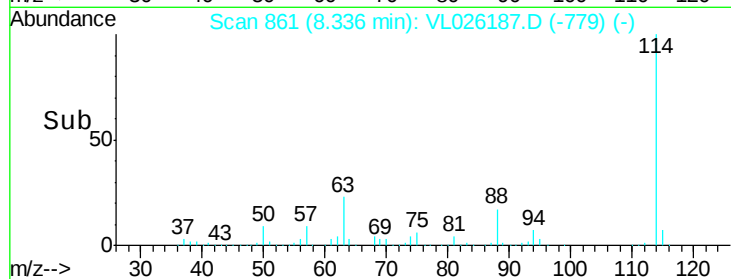
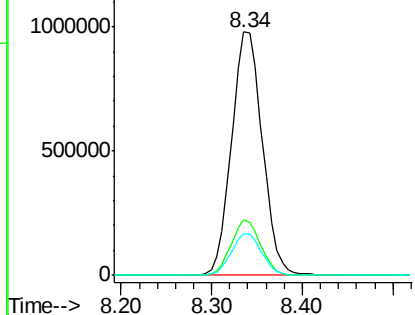
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. -0.00 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2309219
 Ion Ratio Lower Upper
 114 100
 63 22.3 19.0 28.6
 88 17.0 13.8 20.8

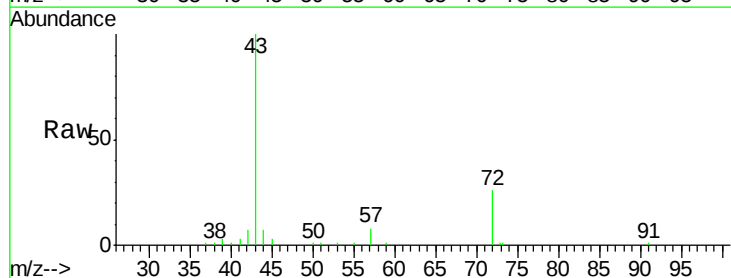


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

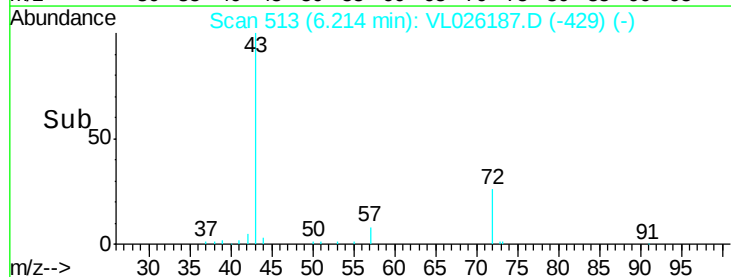
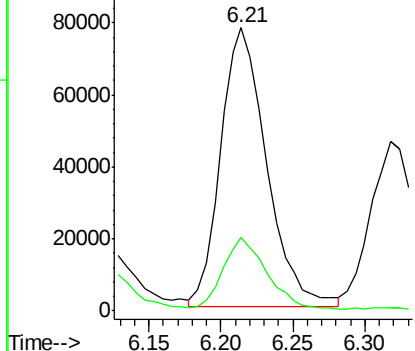


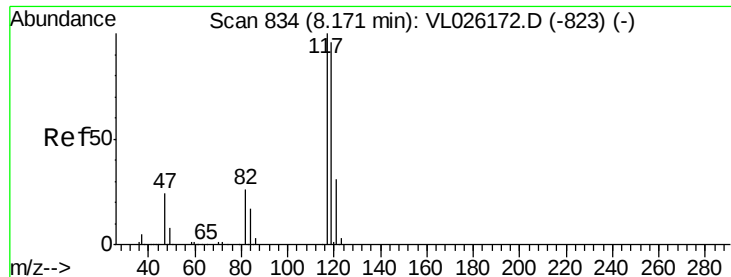
#34
 2-Butanone
 Concen: 1.34 ppbv
 RT: 6.21 min Scan# 513
 Delta R.T. 0.01 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

Tgt Ion: 43 Resp: 172743
 Ion Ratio Lower Upper
 43 100
 72 26.1 19.6 29.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.07 ppbv

RT: 8.17 min Scan# 834

Delta R.T. -0.00 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

ClientSampleId :

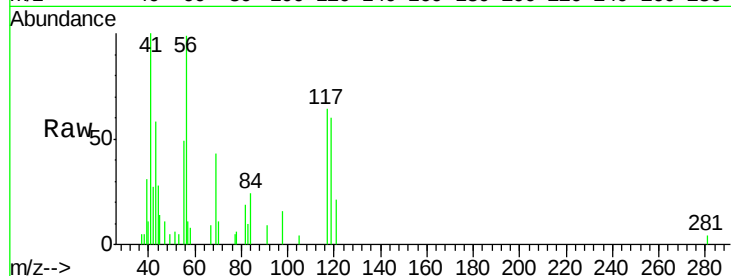
Tot Ion:117 Resp: 10129

Ion Ratio Lower Upper

117 100

119 92.8 76.6 115.0

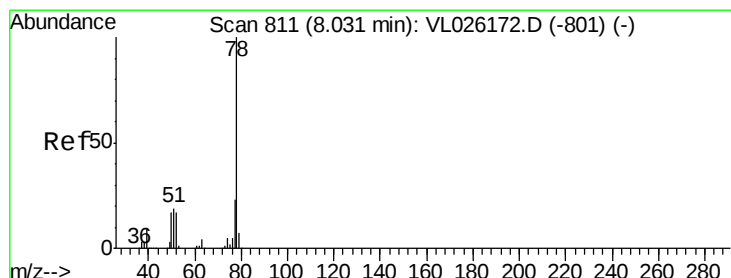
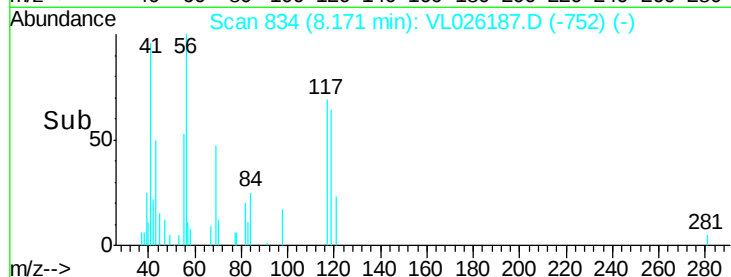
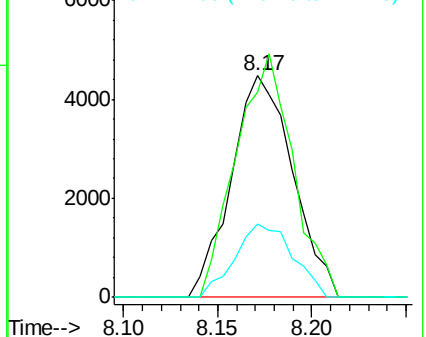
121 33.0 25.0 37.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.70 ppbv

RT: 8.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

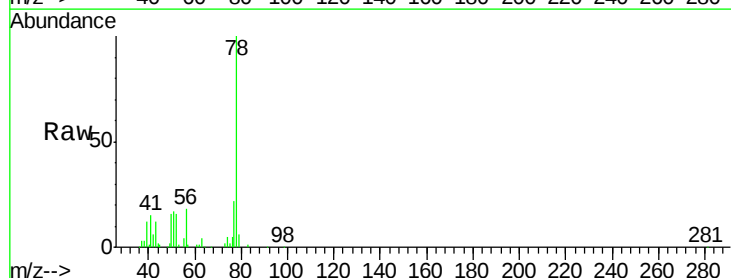
Tgt Ion: 78 Resp: 375961

Ion Ratio Lower Upper

78 100

77 22.1 18.2 27.4

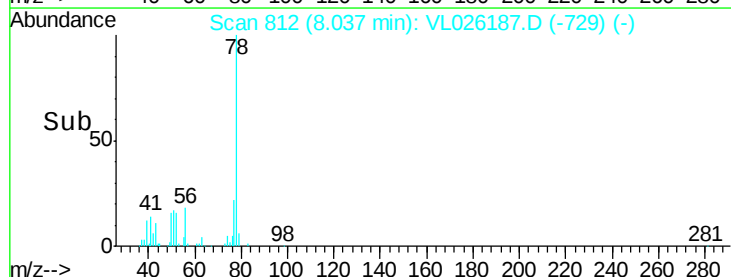
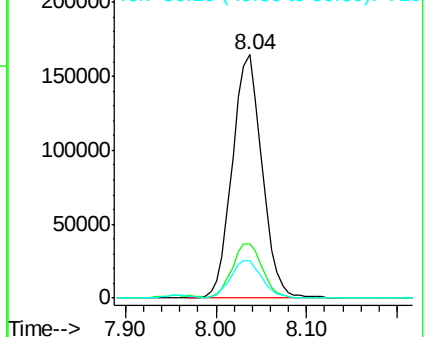
50 15.3 13.4 20.2

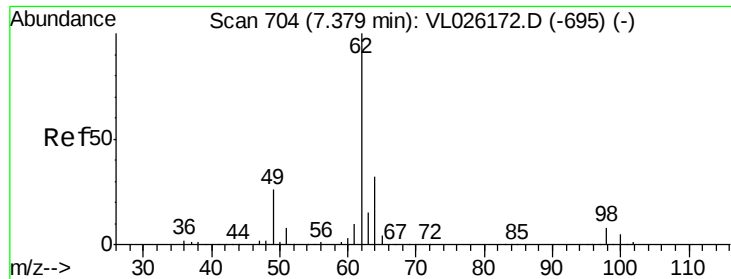


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

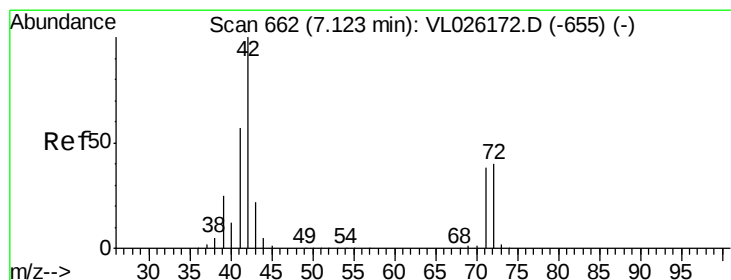
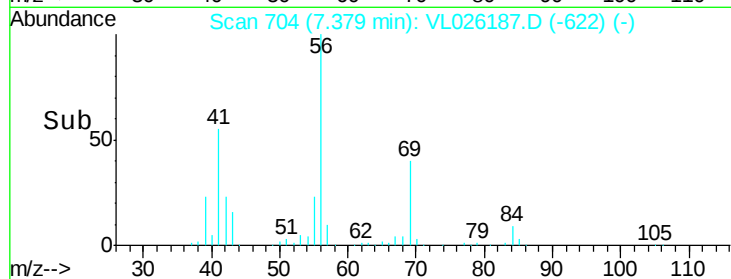
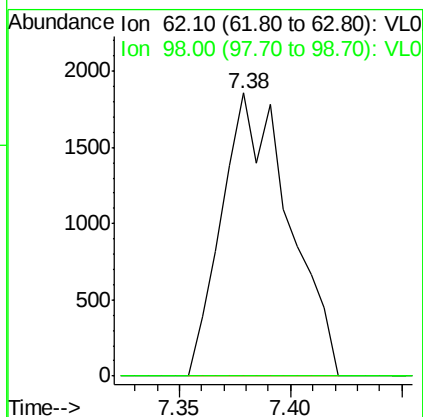
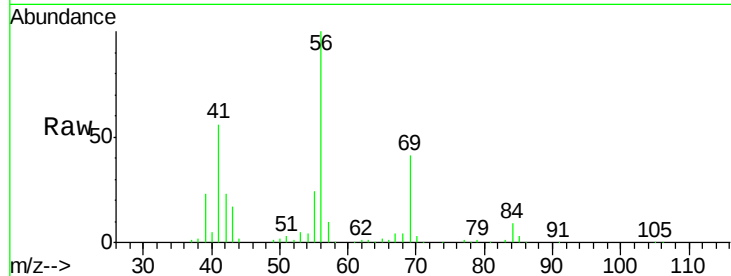




#37
 1,2-Dichloroethane
 Concen: 0.03 ppbv
 RT: 7.38 min Scan# 704
 Delta R.T. -0.00 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

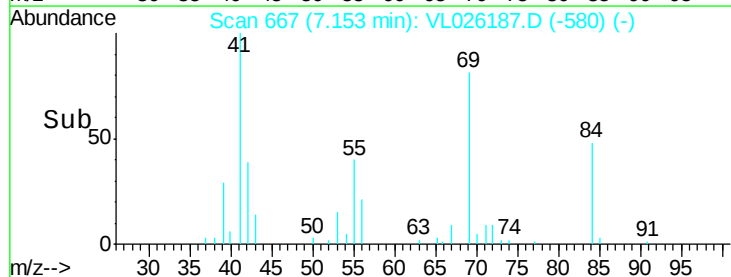
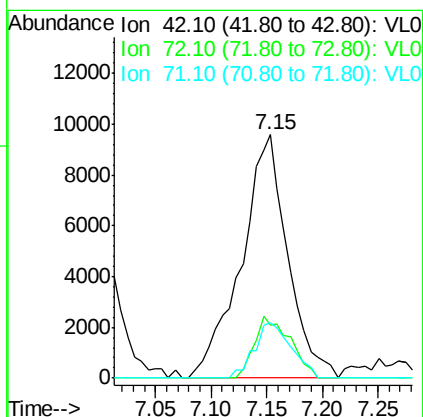
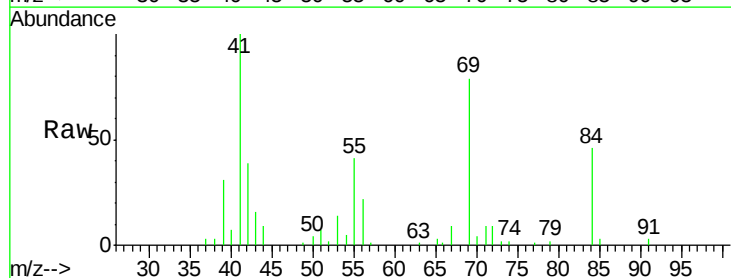
Instrument :
 MSVOA_L
 ClientSampleId :

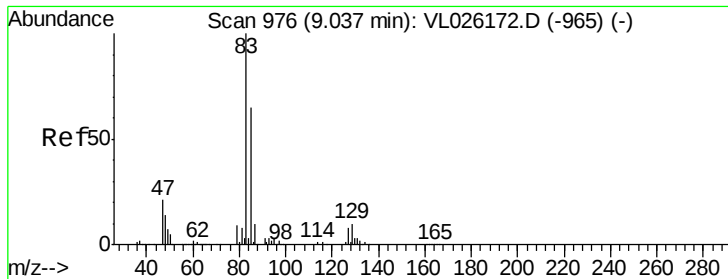
Tot Ion: 62 Resp: 3911
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.2 9.2#



#41
 Tetrahydrofuran
 Concen: 0.39 ppbv
 RT: 7.15 min Scan# 667
 Delta R.T. 0.03 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

Tgt Ion: 42 Resp: 27910
 Ion Ratio Lower Upper
 42 100
 72 19.4 32.4 48.6#
 71 18.2 30.2 45.4#





#42

Bromodichloromethane

Concen: 0.15 ppbv

RT: 9.02 min Scan# 973

Delta R.T. -0.02 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :
MSVOA_L
ClientSampled :

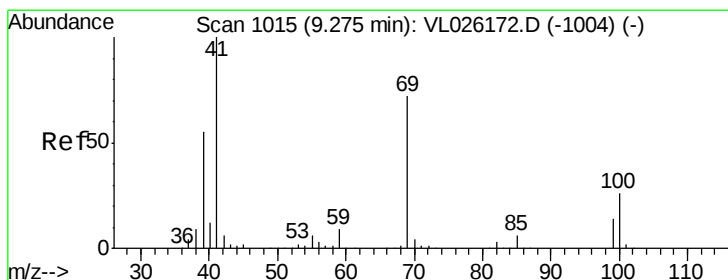
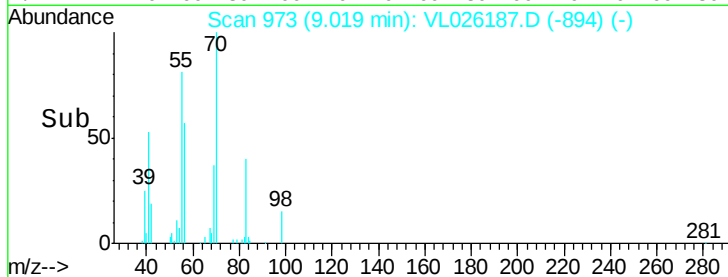
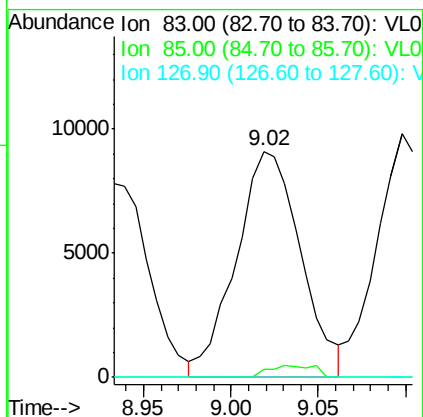
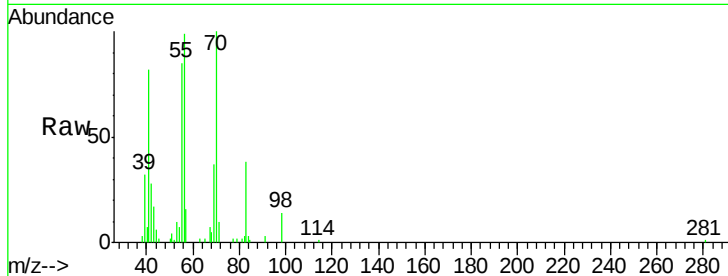
Tot Ion: 83 Resp: 23311

Ion Ratio Lower Upper

83 100

85 4.0 51.9 77.9#

127 0.0 6.2 9.4#



#43

Methyl Methacrylate

Concen: 0.13 ppbv

RT: 9.29 min Scan# 1018

Delta R.T. 0.02 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

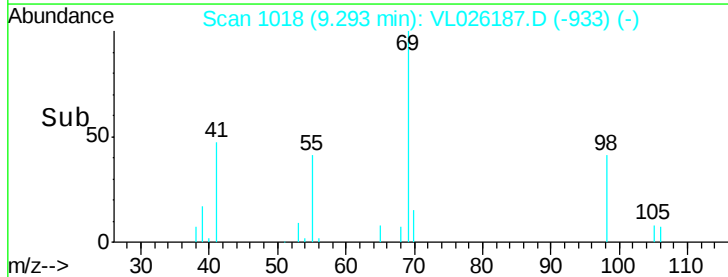
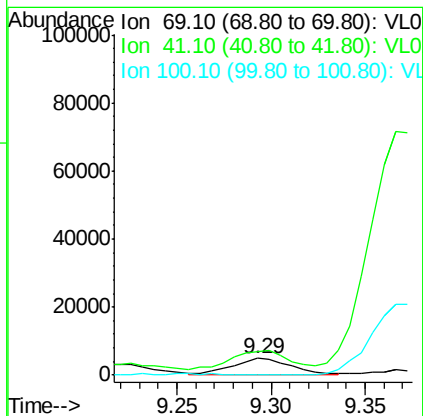
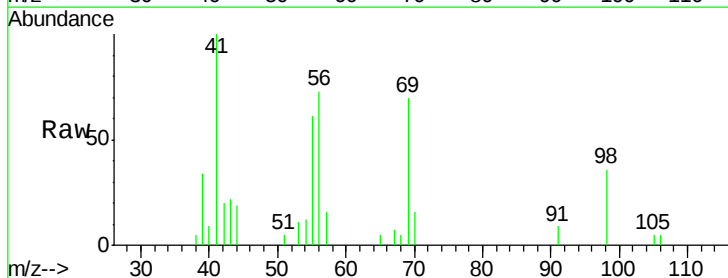
Tgt Ion: 69 Resp: 9935

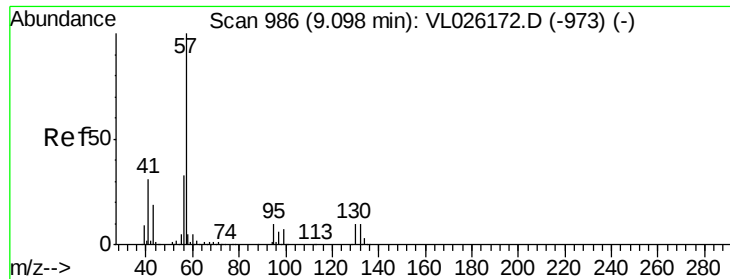
Ion Ratio Lower Upper

69 100

41 0.0 111.5 167.3#

100 0.0 28.4 42.6#





#44

2,2,4-Trimethylpentane

Concen: 3.99 ppbv

RT: 9.10 min Scan# 986

Delta R.T. -0.00 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

ClientSampleId :

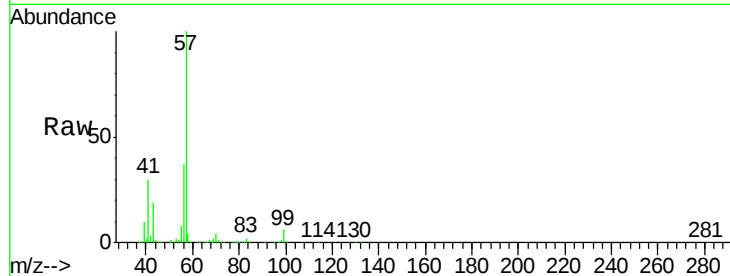
Tot Ion: 57 Resp: 1463618

Ion Ratio Lower Upper

57 100

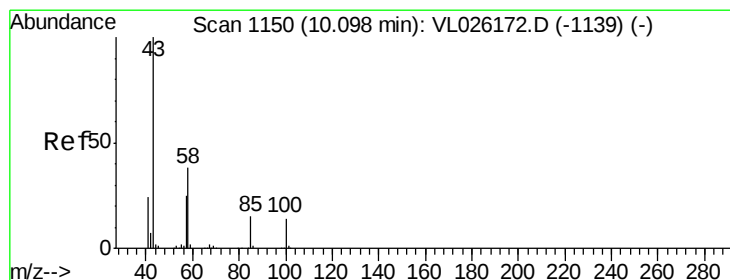
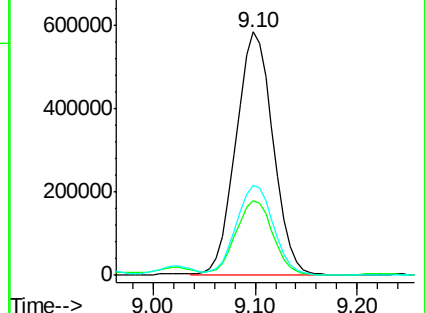
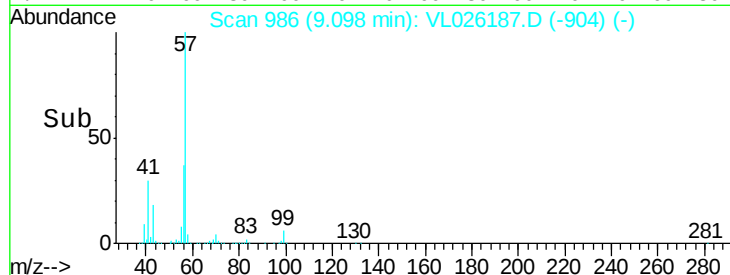
41 33.7 23.7 35.5

56 40.9 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

9.10



#50

4-Methyl-2-Pentanone

Concen: 0.96 ppbv

RT: 10.12 min Scan# 1153

Delta R.T. 0.02 min

Lab File: VL026187.D

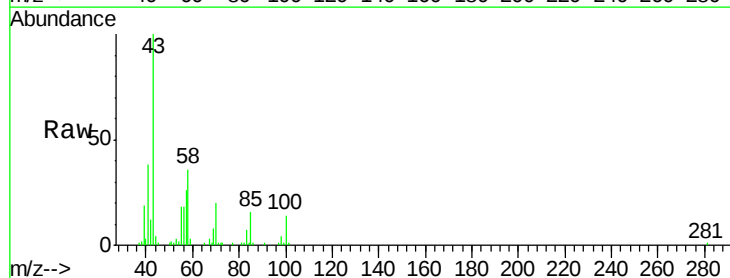
Acq: 9 Oct 2015 22:16

Tgt Ion: 43 Resp: 163780

Ion Ratio Lower Upper

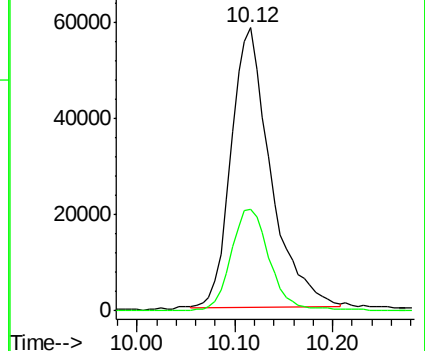
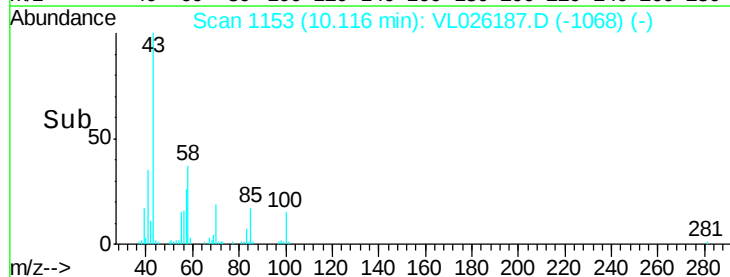
43 100

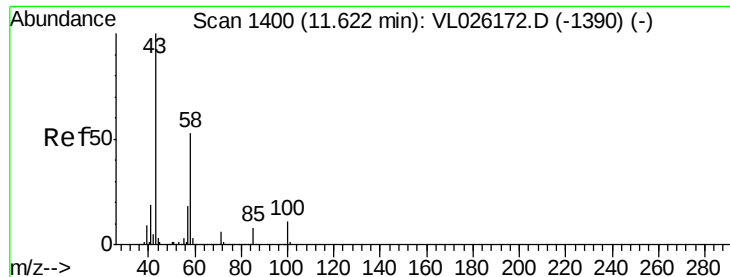
58 35.8 30.4 45.6



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

10.12





#51

2-Hexanone

Concen: 0.23 ppbv

RT: 11.65 min Scan# 1405

Delta R.T. 0.03 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

ClientSampled :

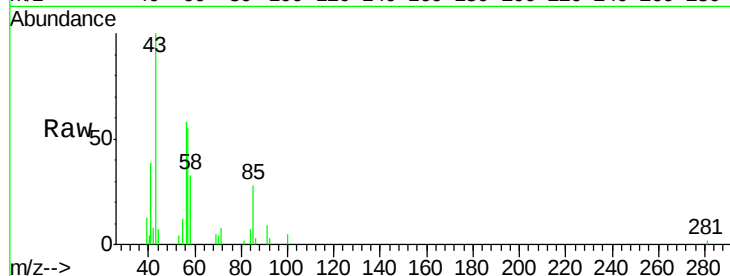
Tot Ion: 43 Resp: 35577

Ion Ratio Lower Upper

43 100

58 38.1 42.2 63.4#

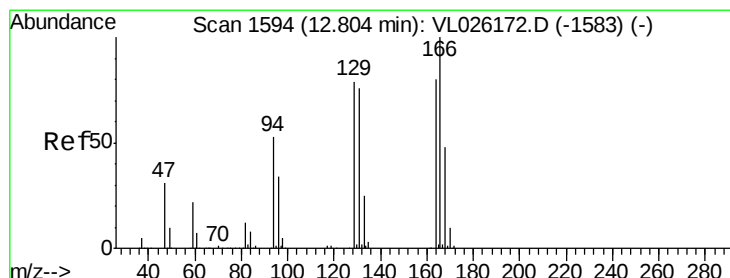
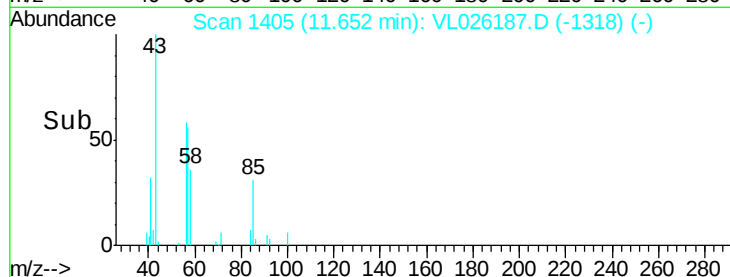
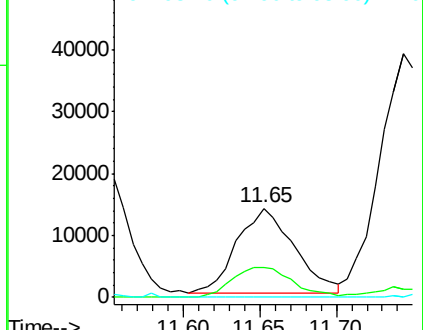
98 0.0 0.2 0.2#



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: 0.05 ppbv

RT: 12.81 min Scan# 1595

Delta R.T. 0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Tgt Ion: 164 Resp: 5945

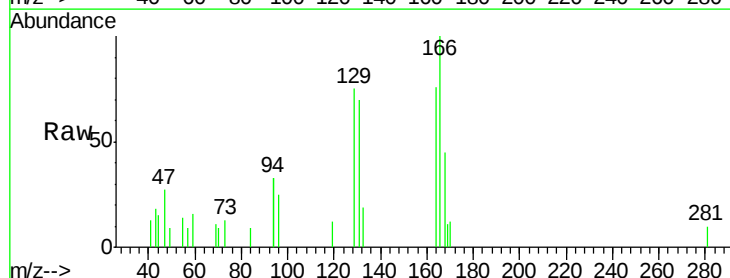
Ion Ratio Lower Upper

164 100

166 118.9 99.9 149.9

129 99.1 79.1 118.7

131 91.5 76.3 114.5

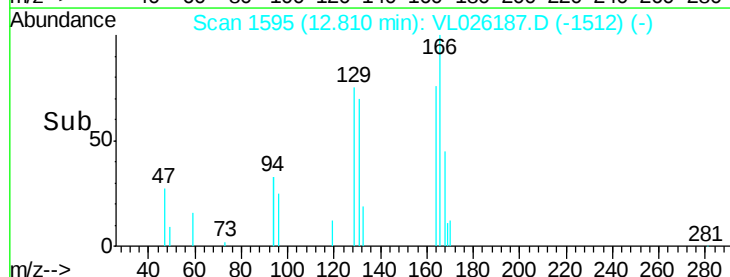
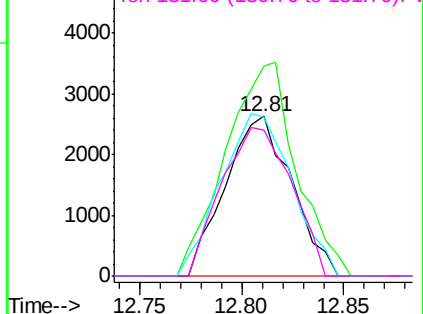


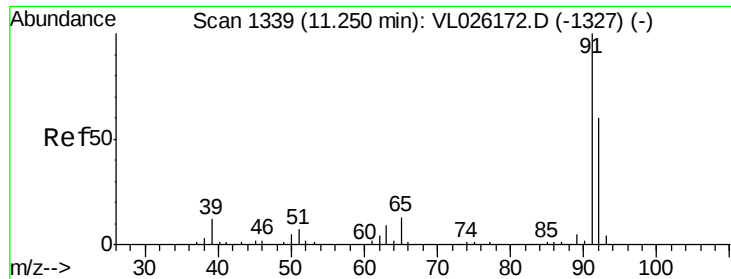
Abundance Ion 163.90 (163.60 to 164.60): V

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: 6.59 ppbv

RT: 11.25 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

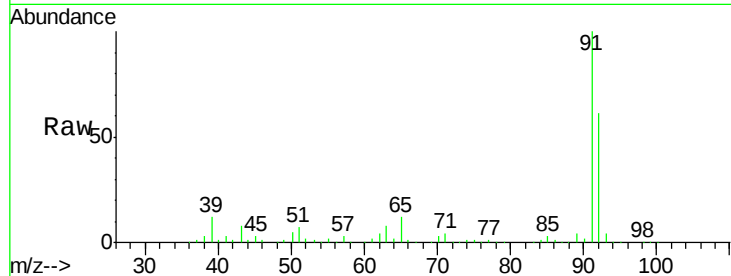
ClientSampleId :

Tot Ion: 91 Resp: 1876275

Ion Ratio Lower Upper

91 100

92 61.6 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

11.25

800000

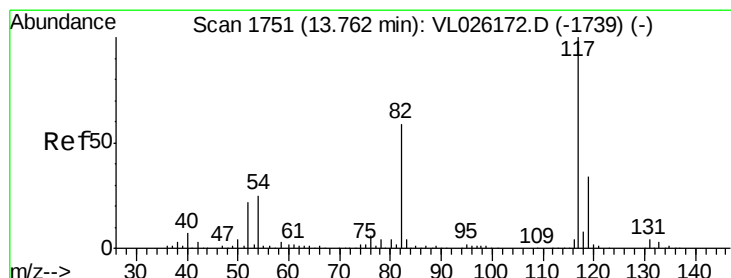
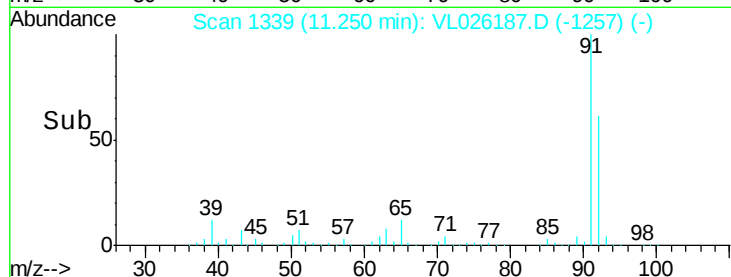
600000

400000

200000

0

Time--> 11.10 11.20 11.30 11.40



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

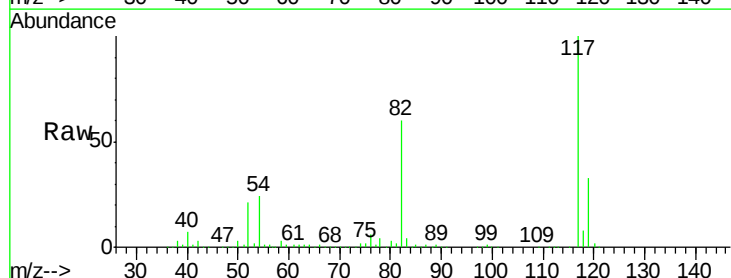
Tgt Ion: 117 Resp: 2421246

Ion Ratio Lower Upper

117 100

82 0.0 47.7 71.5#

119 32.7 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

1200000

1000000

800000

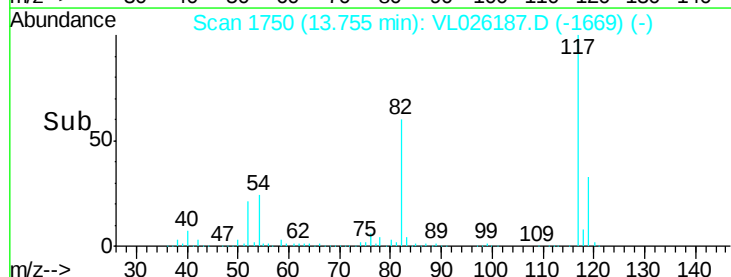
600000

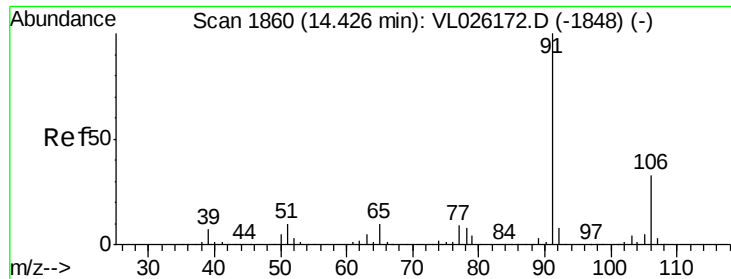
400000

200000

0

Time--> 13.60 13.70 13.80 13.90





#58

Ethyl Benzene

Concen: 1.28 ppbv

RT: 14.43 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

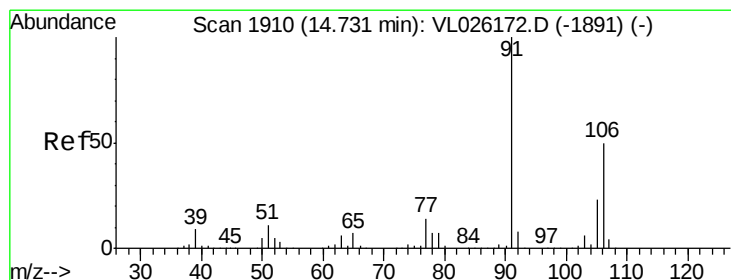
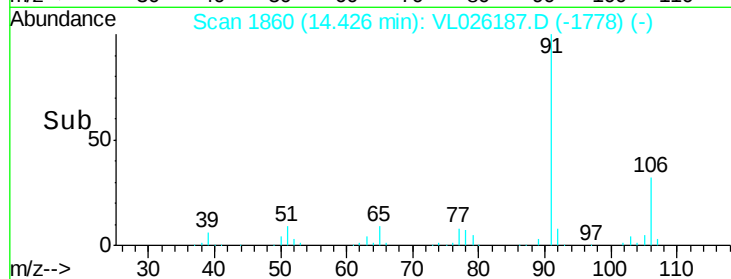
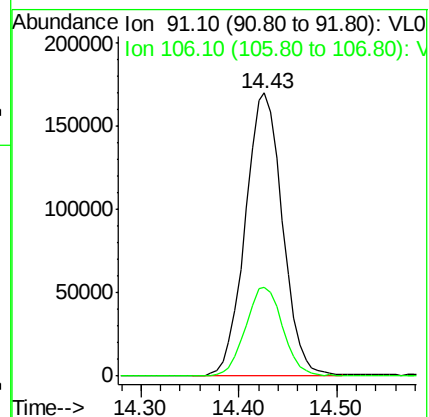
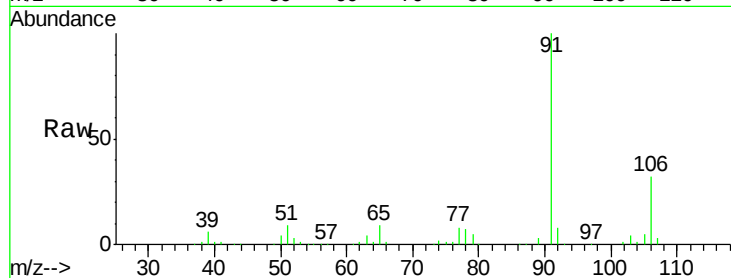
ClientSampleId :

Tot Ion: 91 Resp: 449982

Ion Ratio Lower Upper

91 100

106 31.6 26.1 39.1



#59

m/p-Xylene

Concen: 4.20 ppbv

RT: 14.70 min Scan# 1905

Delta R.T. -0.03 min

Lab File: VL026187.D

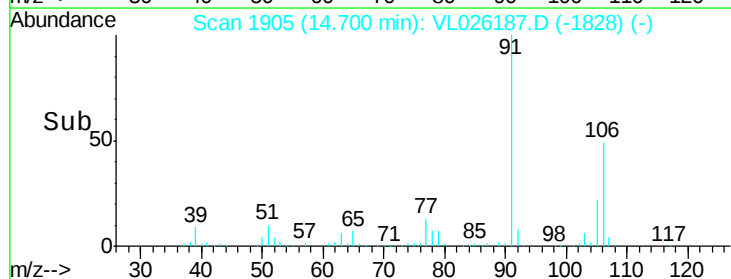
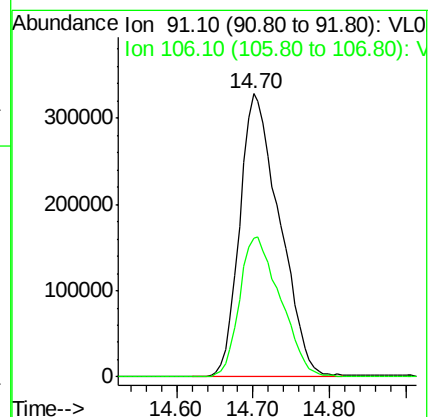
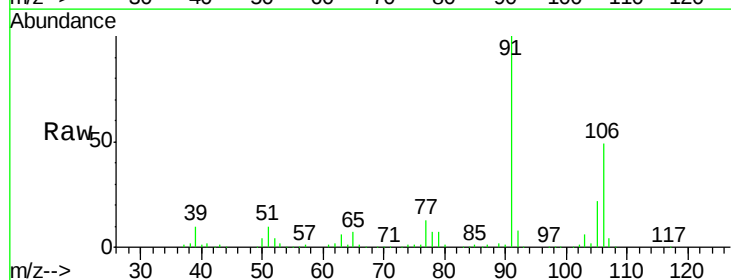
Acq: 9 Oct 2015 22:16

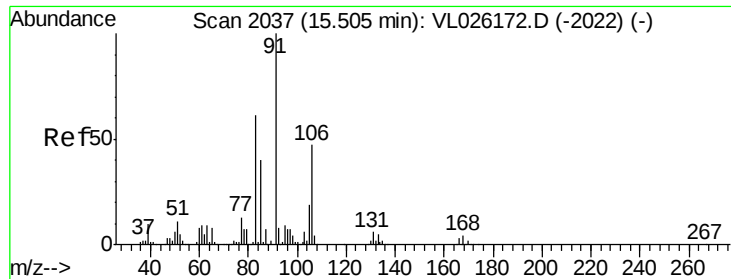
Tgt Ion: 91 Resp: 1184205

Ion Ratio Lower Upper

91 100

106 51.4 40.2 60.4

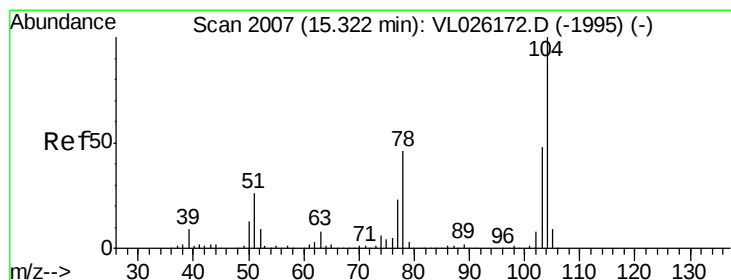
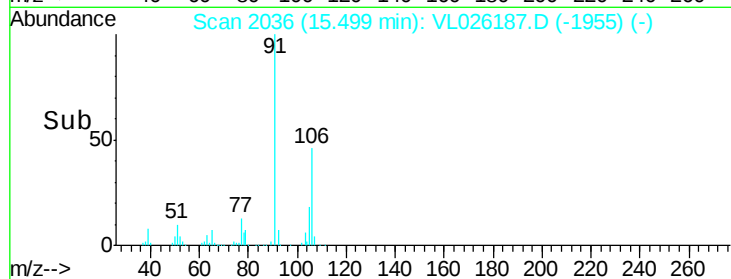
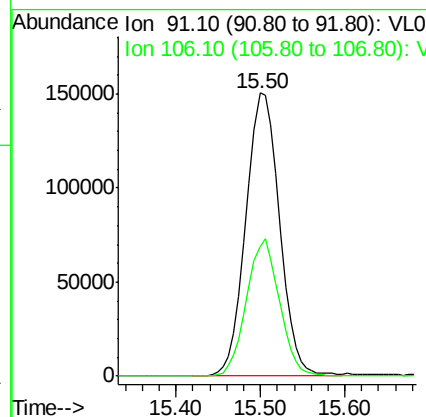
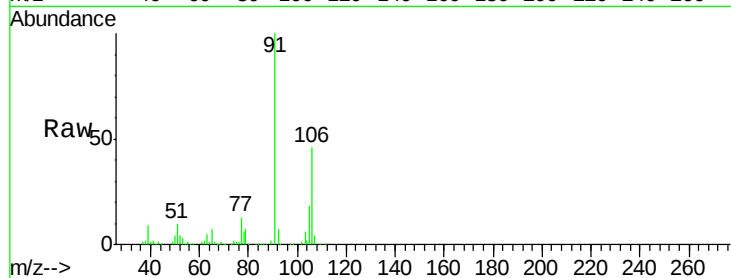




#60
o-Xylene
Concen: 1.39 ppbv
RT: 15.50 min Scan# 2036
Delta R.T. -0.01 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

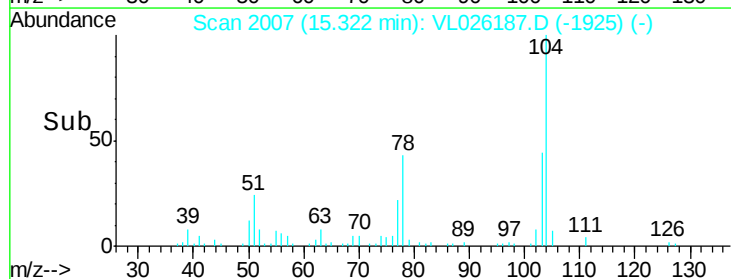
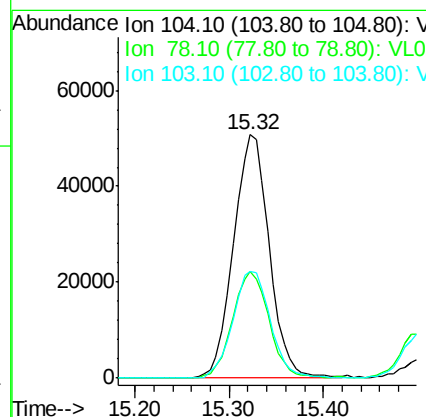
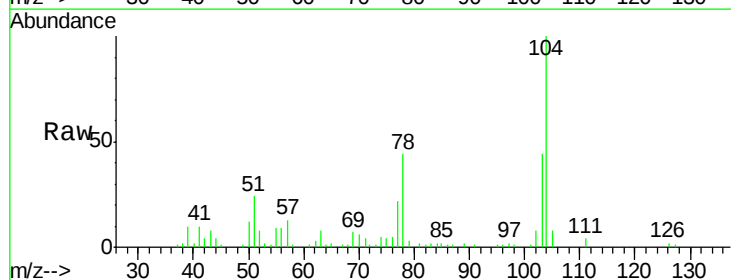
Instrument :
MSVOA_L
ClientSampleId :

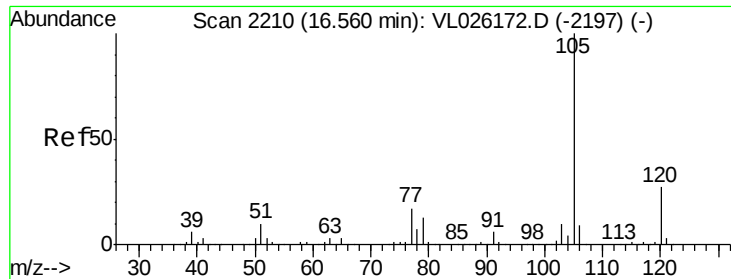
Tot Ion: 91 Resp: 410349
Ion Ratio Lower Upper
91 100
106 47.5 23.4 70.3



#61
Styrene
Concen: 1.11 ppbv
RT: 15.32 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Tgt Ion:104 Resp: 134234
Ion Ratio Lower Upper
104 100
78 44.5 36.1 54.1
103 46.0 37.5 56.3





#62

Isopropylbenzene

Concen: 0.11 ppbv

RT: 16.56 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

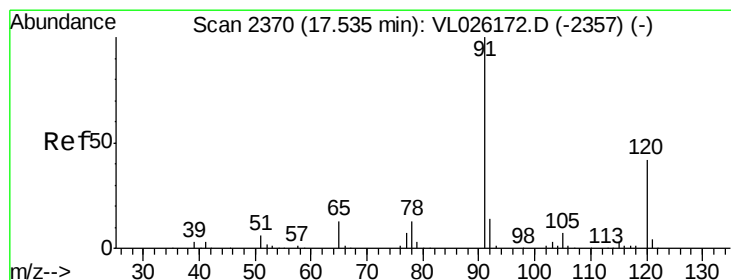
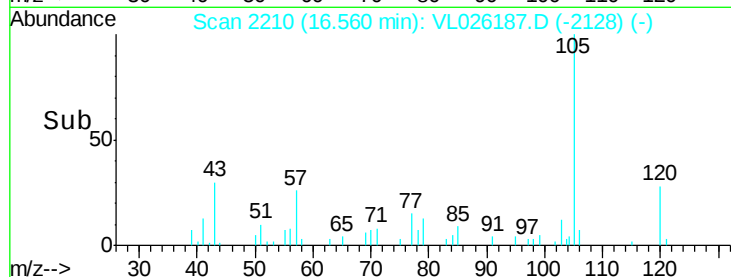
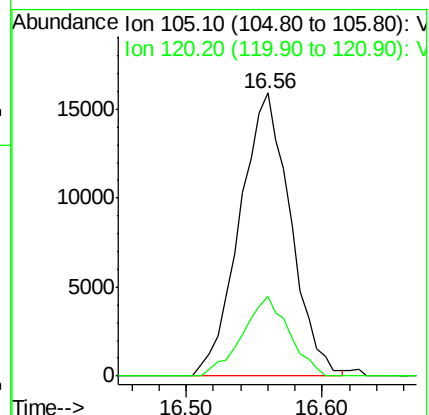
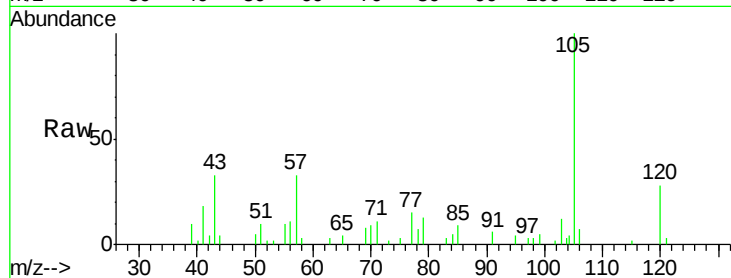
ClientSampleId :

Tot Ion:105 Resp: 41478

Ion Ratio Lower Upper

105 100

120 25.8 21.8 32.6



#64

n-propylbenzene

Concen: 0.25 ppbv

RT: 17.53 min Scan# 2369

Delta R.T. -0.01 min

Lab File: VL026187.D

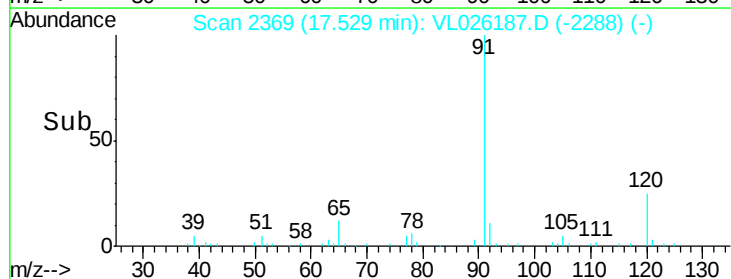
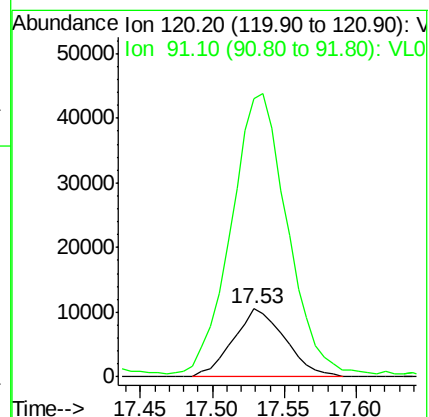
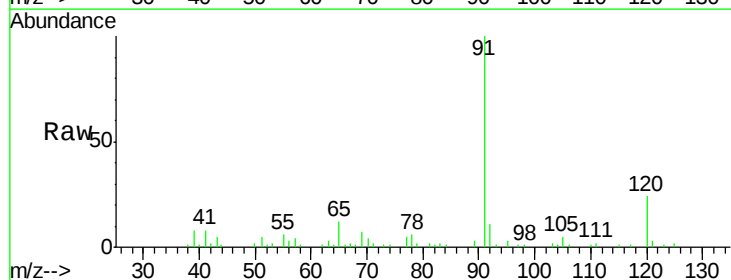
Acq: 9 Oct 2015 22:16

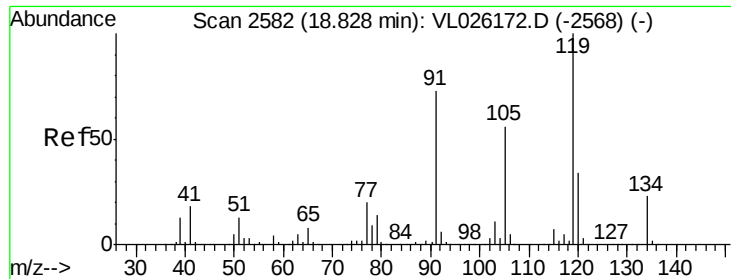
Tgt Ion:120 Resp: 26410

Ion Ratio Lower Upper

120 100

91 461.4 353.4 530.2

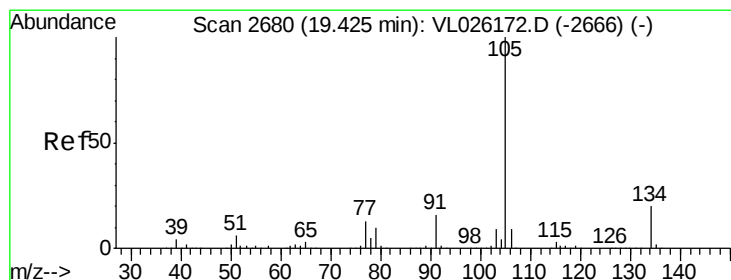
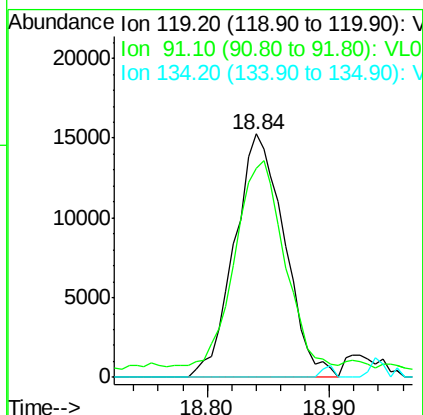
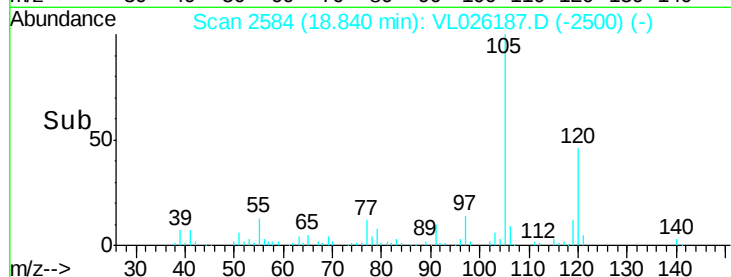
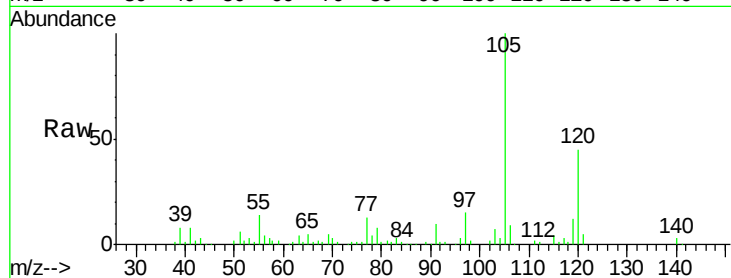




#65
tert-Butylbenzene
Concen: 0.13 ppbv
RT: 18.84 min Scan# 2584
Delta R.T. 0.01 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

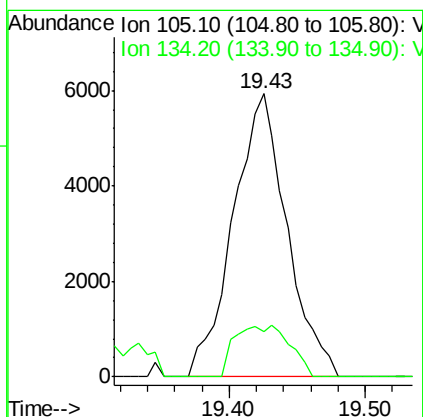
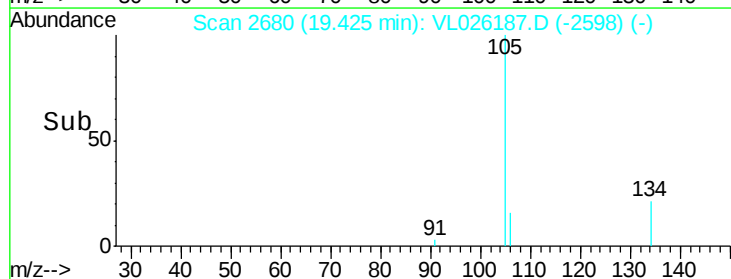
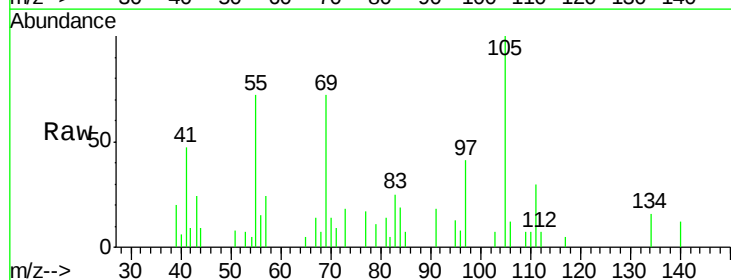
Instrument :
MSVOA_L
ClientSampleId :

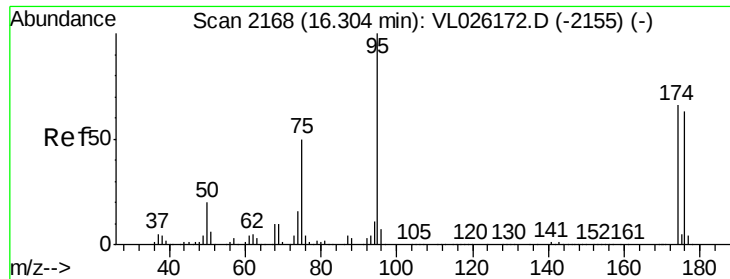
Tot Ion:119 Resp: 43267
Ion Ratio Lower Upper
119 100
91 108.0 58.5 87.7#
134 0.0 18.0 27.0#



#67
sec-Butylbenzene
Concen: 0.03 ppbv
RT: 19.43 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Tgt Ion:105 Resp: 16384
Ion Ratio Lower Upper
105 100
134 18.5 15.9 23.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.73 ppbv

RT: 16.30 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

ClientSampled :

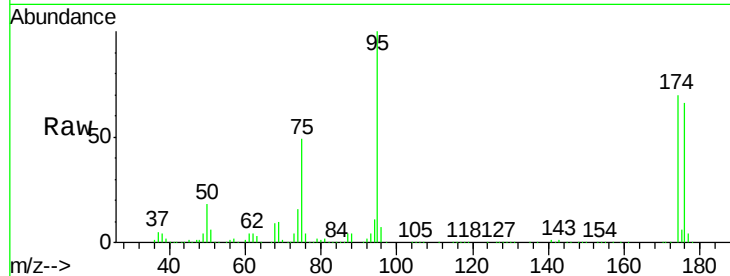
Tot Ion: 95 Resp: 1808103

Ion Ratio Lower Upper

95 100

174 70.1 52.2 78.4

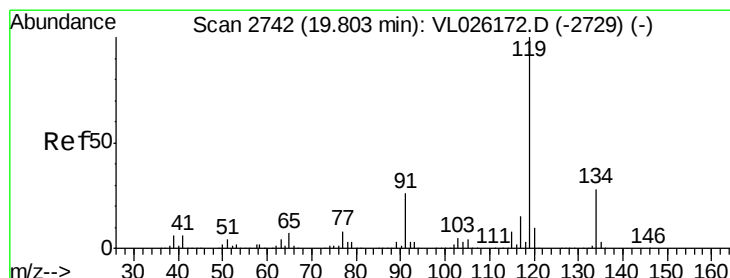
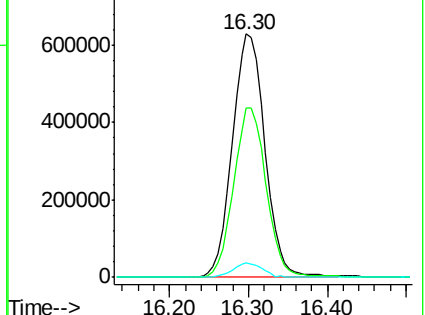
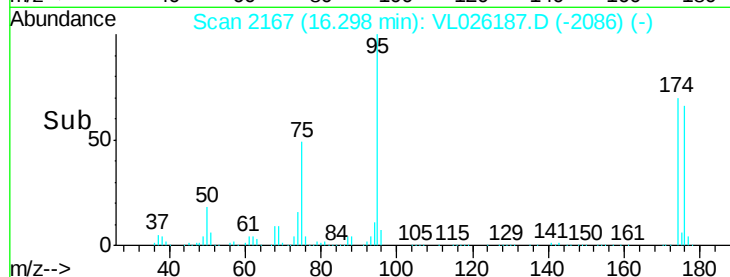
175 5.4 3.9 5.9



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: 0.09 ppbv

RT: 19.79 min Scan# 2740

Delta R.T. -0.01 min

Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

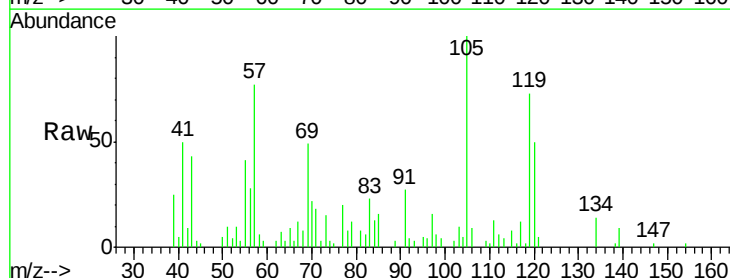
Tgt Ion: 119 Resp: 35693

Ion Ratio Lower Upper

119 100

134 19.9 21.4 32.0#

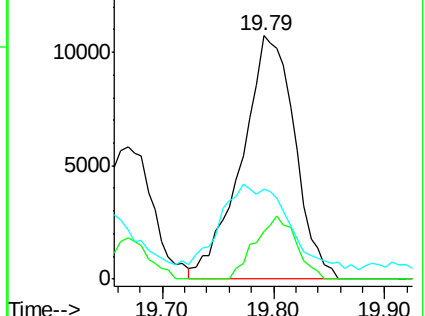
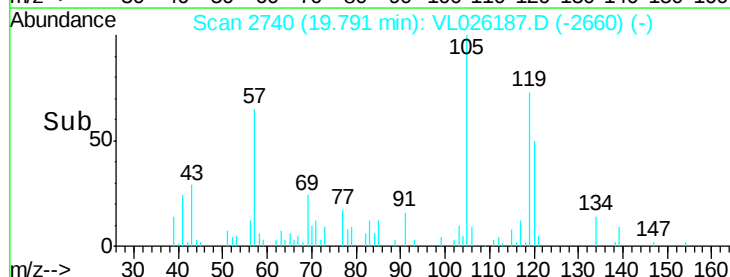
91 42.8 19.9 29.9#

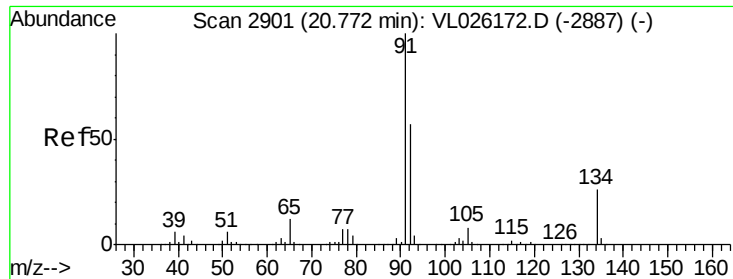


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

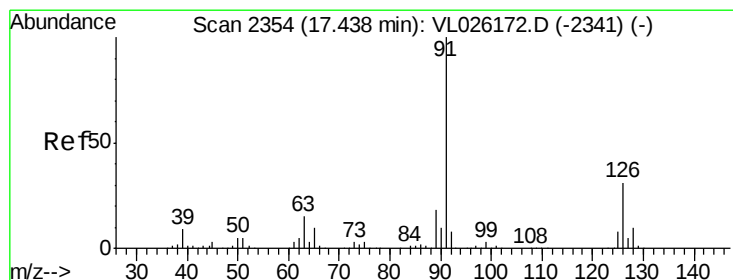
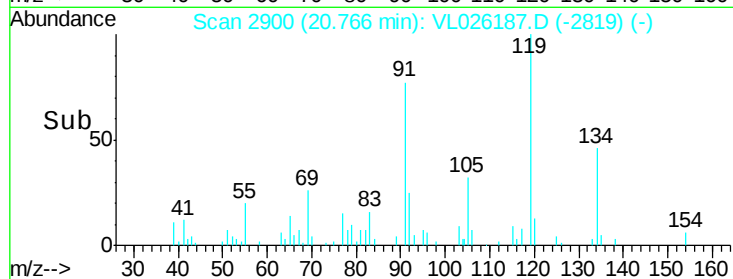
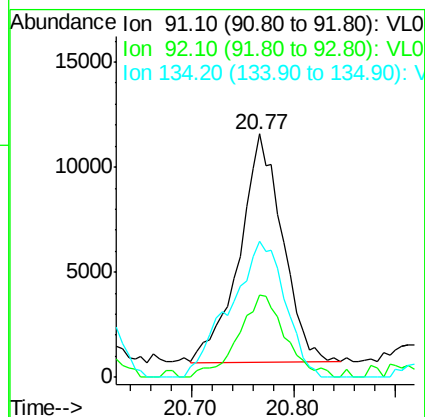
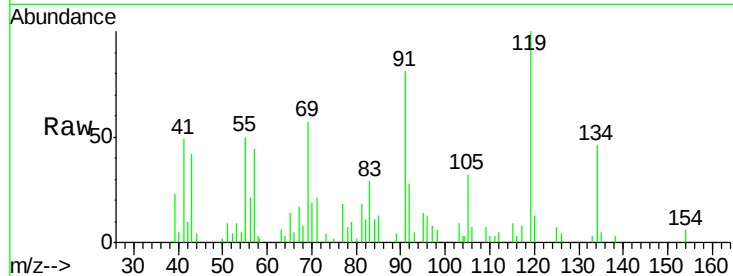




#70
n-Butylbenzene
Concen: 0.09 ppbv
RT: 20.77 min Scan# 2900
Delta R.T. -0.01 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

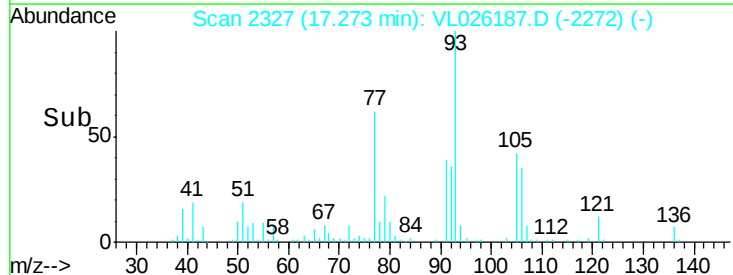
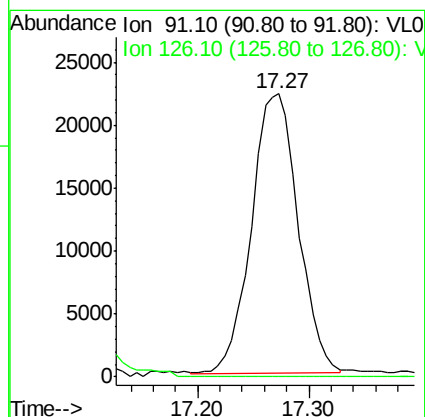
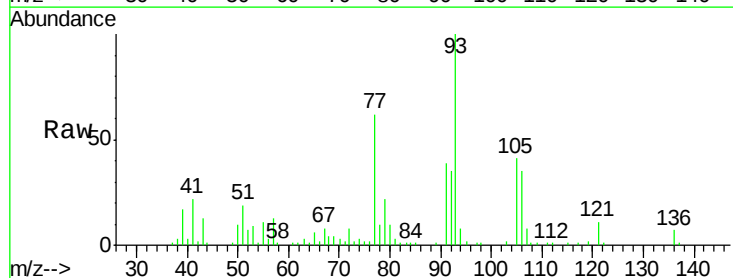
Instrument :
MSVOA_L
ClientSampleId :

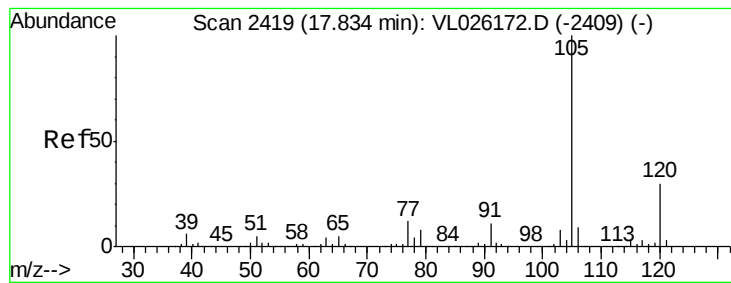
Tot Ion: 91 Resp: 31729
Ion Ratio Lower Upper
91 100
92 40.1 45.0 67.6#
134 76.0 19.8 29.8#



#71
2-Chlorotoluene
Concen: 0.23 ppbv
RT: 17.27 min Scan# 2327
Delta R.T. -0.16 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Tgt Ion: 91 Resp: 64753
Ion Ratio Lower Upper
91 100
126 19.3 12.8 51.2

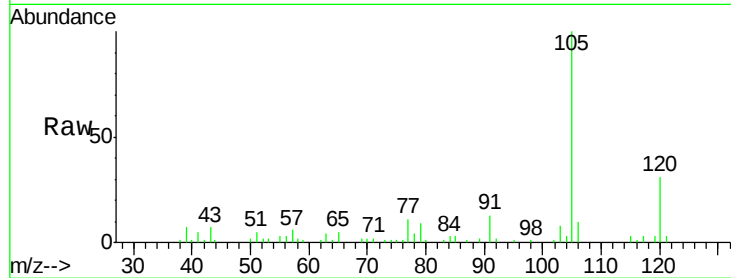




#72
4-Ethyltoluene
Concen: 0.43 ppbv
RT: 17.83 min Scan# 2419
Delta R.T. -0.00 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
105	100		
120	29.7	24.7	37.1
91	12.6	9.2	13.8
77	12.5	9.8	14.8



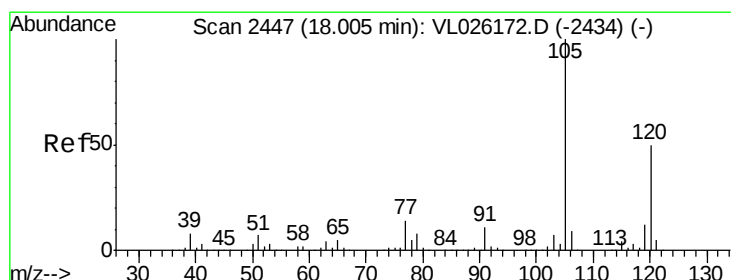
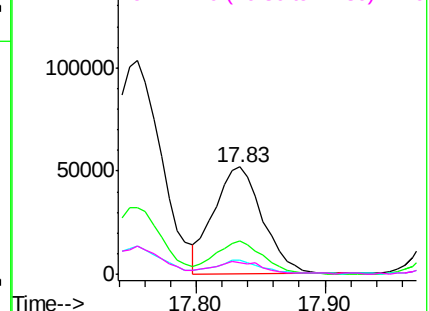
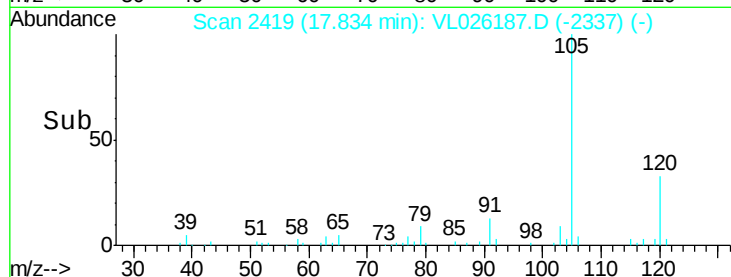
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

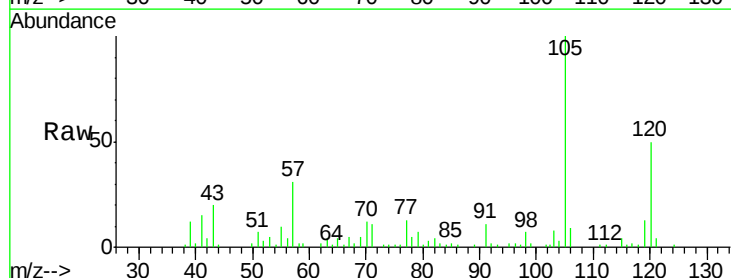
Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73
1,3,5-Trimethylbenzene
Concen: 0.35 ppbv
RT: 18.00 min Scan# 2446
Delta R.T. -0.01 min
Lab File: VL026187.D
Acq: 9 Oct 2015 22:16

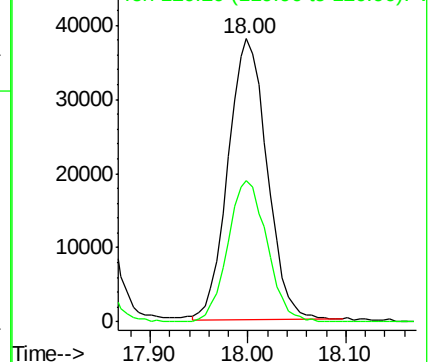
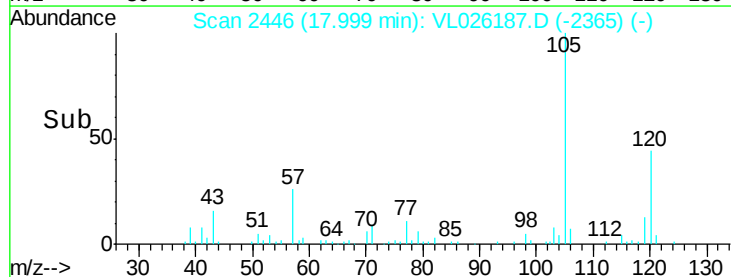
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.5	40.1	60.1

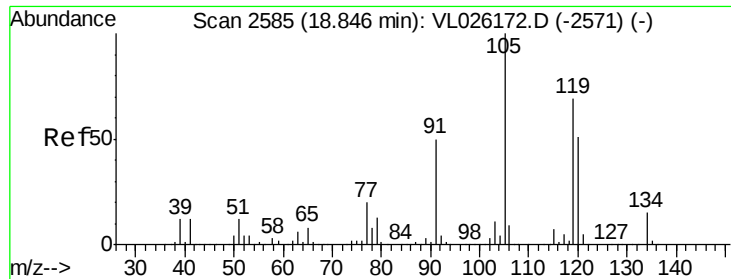


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

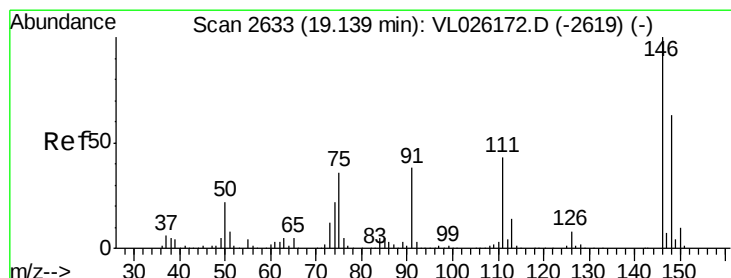
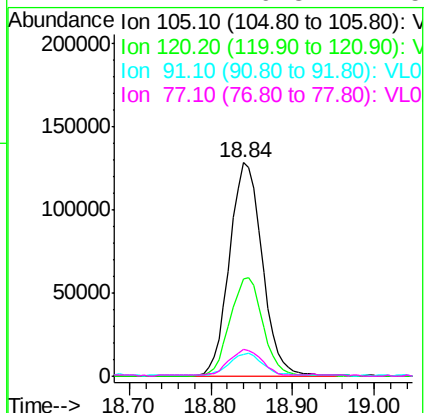
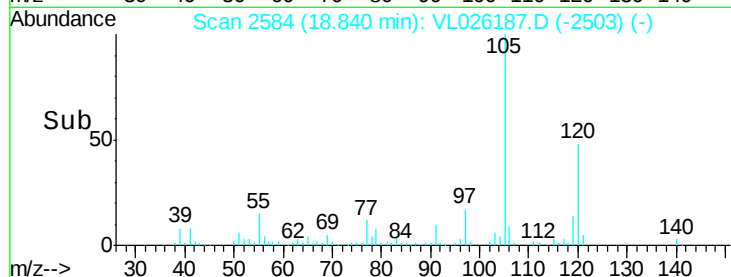
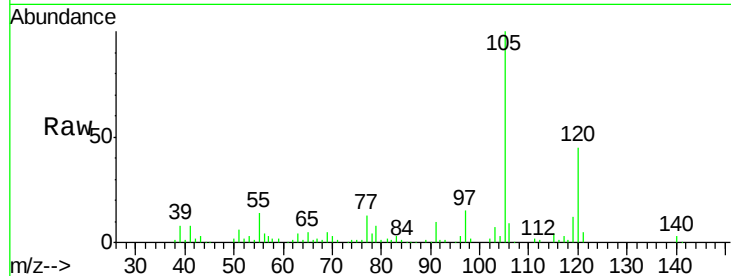




#74
 1,2,4-Trimethylbenzene
 Concen: 1.15 ppbv
 RT: 18.84 min Scan# 2584
 Delta R.T. -0.01 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

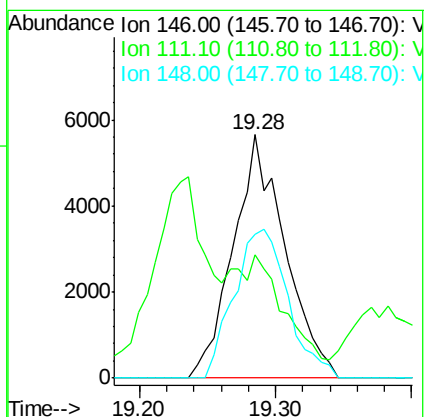
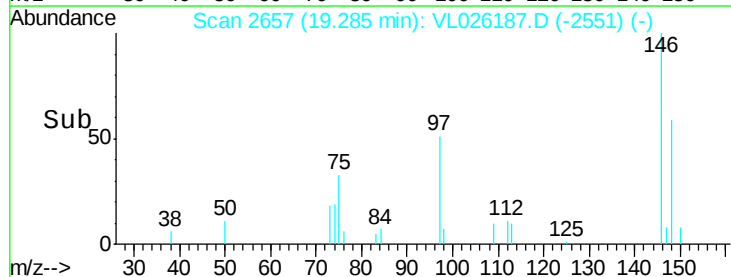
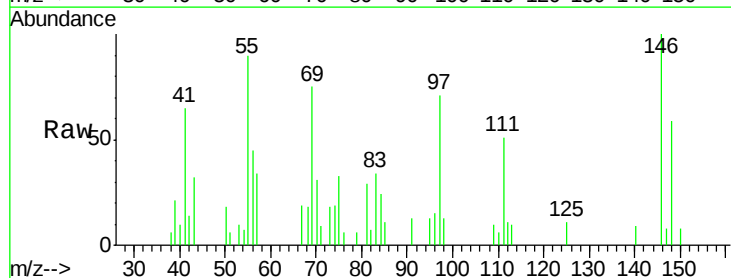
Instrument :
 MSVOA_L
 ClientSampleId :

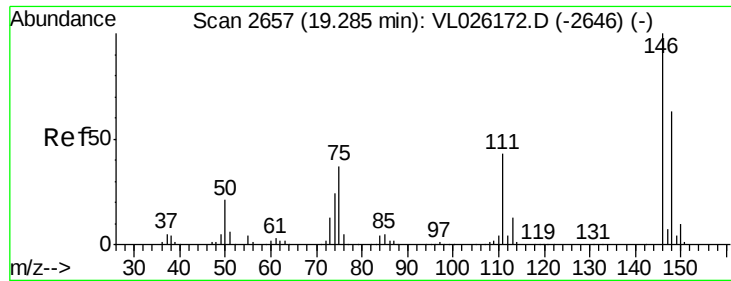
Tot Ion	Ratio	Lower	Upper
105	100		
120	45.4	41.1	61.7
91	9.7	39.8	59.6#
77	12.1	16.3	24.5#



#75
 1,3-Dichlorobenzene
 Concen: 0.08 ppbv
 RT: 19.28 min Scan# 2657
 Delta R.T. 0.15 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	119.9	22.1	66.3#
148	63.7	31.9	95.5

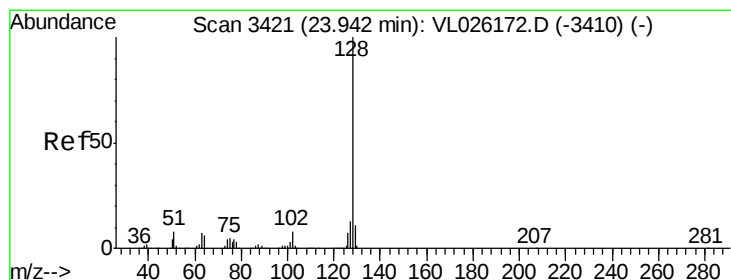
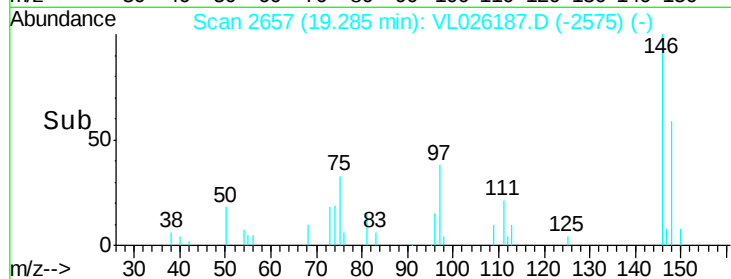
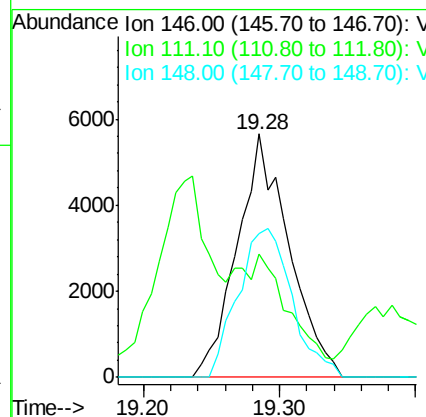
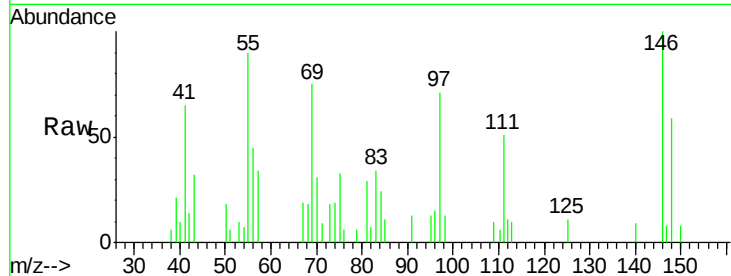




#76
 1,4-Dichlorobenzene
 Concen: 0.07 ppbv
 RT: 19.28 min Scan# 2657
 Delta R.T. -0.00 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

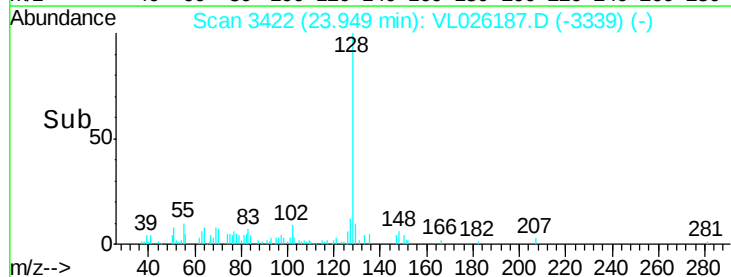
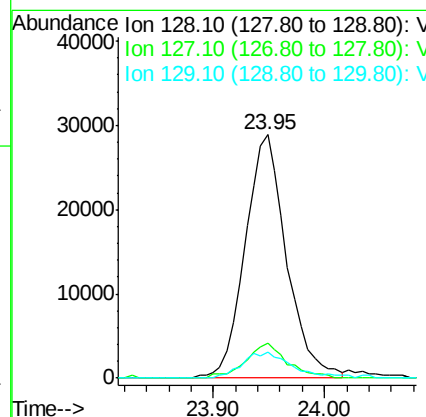
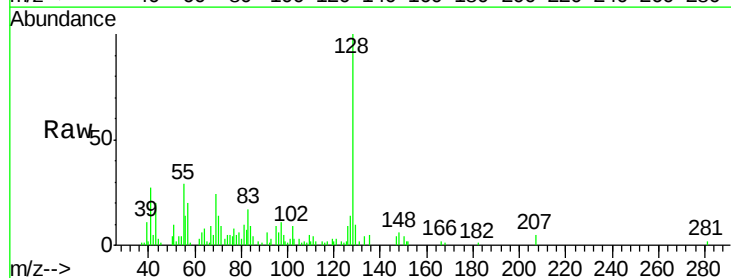
Instrument :
 MSVOA_L
 ClientSampleId :

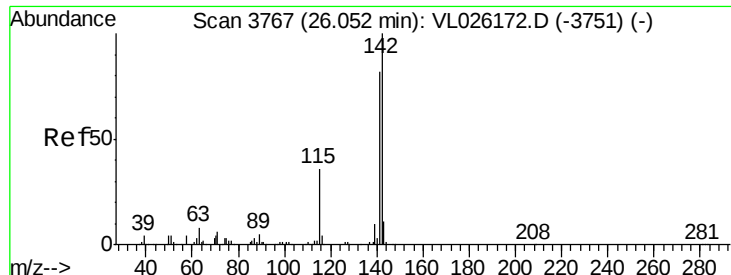
Tot Ion:146 Resp: 15011
 Ion Ratio Lower Upper
 146 100
 111 118.5 21.3 63.9#
 148 63.7 31.6 94.8



#79
 Naphthalene
 Concen: 0.38 ppbv
 RT: 23.95 min Scan# 3422
 Delta R.T. 0.01 min
 Lab File: VL026187.D
 Acq: 9 Oct 2015 22:16

Tgt Ion:128 Resp: 74570
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.2 15.2
 129 10.5 8.7 13.1





#80

Naphthalene, 2-methyl-

Concen: 0.09 ppbv

RT: 26.06 min Scan# 3769

Delta R.T. 0.01 min

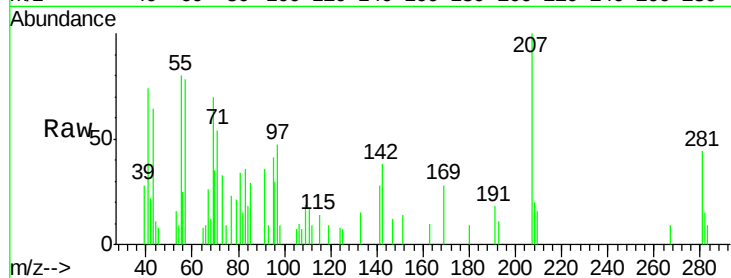
Lab File: VL026187.D

Acq: 9 Oct 2015 22:16

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion:	142	Resp:	3877
Ion	Ratio	Lower	Upper
142	100		
141	133.4	66.6	99.8#
115	67.1	28.4	42.6#

