

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033414.D
 Acq On : 21 Mar 2019 8:58
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

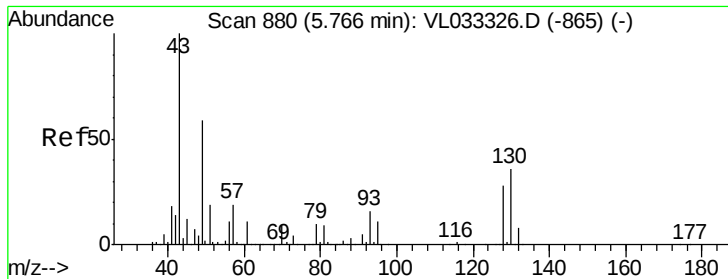
Quant Time: Mar 21 12:43:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	698795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1633891	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.24	117	2390830	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1192705	6.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	67.30%

Target Compounds						Qvalue
3) Chlorodifluoromethane	3.01	51	8698	0.108	ppbv	93
4) Chloromethane	3.17	50	2082	0.048	ppbv	93
5) Vinyl Chloride	3.29	62	1884	0.042	ppbv	90
6) Bromomethane	3.51	94	1892	0.071	ppbv #	44
7) Chloroethane	3.60	64	504	0.032	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	8659	0.083	ppbv	97
9) Propene	3.04	41	3628	0.101	ppbv #	82
11) Trichlorofluoromethane	4.00	101	10348	0.085	ppbv #	80
12) 1,1,2-Trichlorotrifluoroet	4.54	101	3189	0.039	ppbv #	14
13) Ethanol	3.66	45	1848	0.108	ppbv #	38
14) Bromoethene	3.79	108	1930	0.057	ppbv #	73
15) Acetone	3.91	43	68724	0.633	ppbv	91
16) 1,3-Butadiene	3.36	39	1119	0.032	ppbv #	2
17) tert-Butyl alcohol	4.39	59	1929	0.126	ppbv #	74
20) Methylene Chloride	4.41	84	6305	0.178	ppbv #	78
21) Allyl Chloride	4.47	41	2527	0.048	ppbv #	62
22) trans-1,2-Dichloroethene	4.96	96	1855	0.052	ppbv #	76
24) 1,1-Dichloroethane	5.08	63	3063	0.034	ppbv #	88
26) Hexane	5.77	57	3468	0.049	ppbv #	1
27) Carbon Disulfide	4.62	76	3152	0.039	ppbv #	1
28) Methyl tert-Butyl Ether	5.13	73	5693	0.054	ppbv	95
31) cis-1,2-Dichloroethene	5.63	61	2455	0.035	ppbv #	44
32) 1,1,1-Trichloroethane	6.62	97	6888	0.061	ppbv #	91
34) 2-Butanone	5.34	43	6866	0.064	ppbv #	50
37) 1,2-Dichloroethane	6.40	62	5047	0.055	ppbv #	92
38) Trichloroethene	7.95	130	4706	0.085	ppbv #	64
39) 1,2-Dichloropropane	7.28	63	427861	7.813	ppbv #	24
47) 1,1,2-Trichloroethane	9.61	97	1984	0.033	ppbv #	59
48) Dibromochloromethane	10.44	129	5816	0.057	ppbv	92
50) 4-Methyl-2-Pentanone	8.89	43	10193	0.067	ppbv	89
52) Tetrachloroethene	11.37	164	1720076	28.236	ppbv	96
53) Toluene	9.94	91	10214	0.061	ppbv #	21
54) 1,2-Dibromoethane	10.75	107	4535	0.044	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	4502	0.042	ppbv #	31
80) Naphthalene,2-methyl-	25.11	142	4656	0.031	ppbv #	88

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

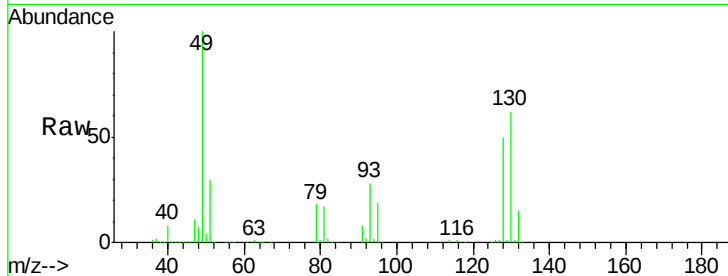
Tgt Ion: 49 Resp: 698795

Ion Ratio Lower Upper

49 100

128 48.1 23.5 70.6

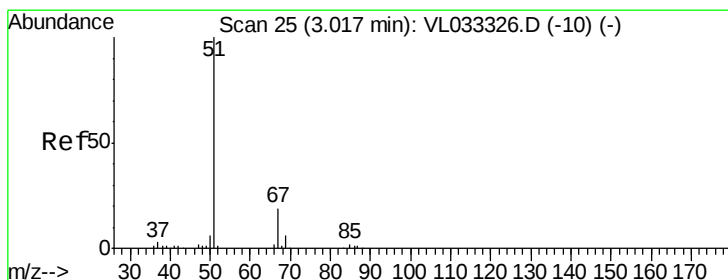
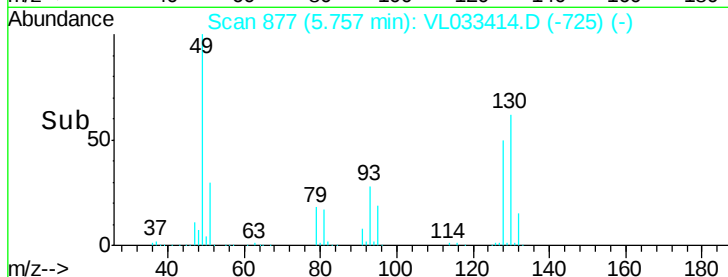
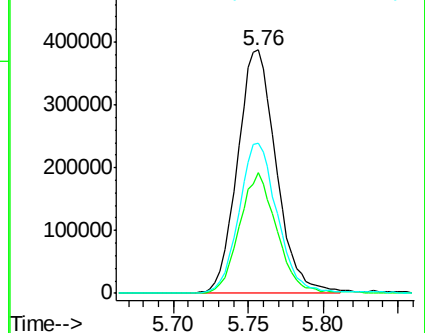
130 62.0 30.1 90.3



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



#3

Chlorodifluoromethane

Concen: 0.108 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033414.D

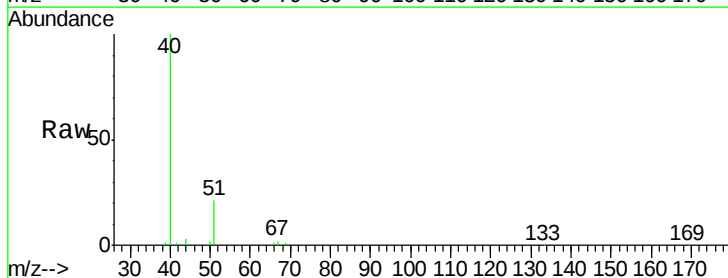
Acq: 21 Mar 2019 8:58

Tgt Ion: 51 Resp: 8698

Ion Ratio Lower Upper

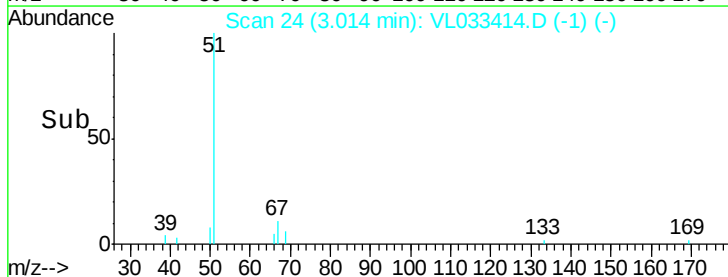
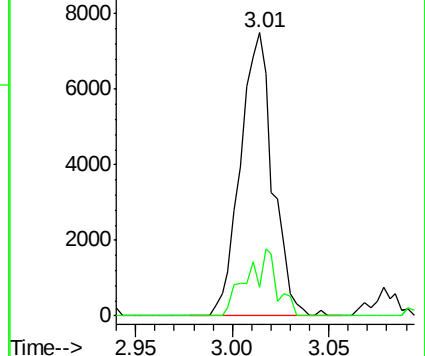
51 100

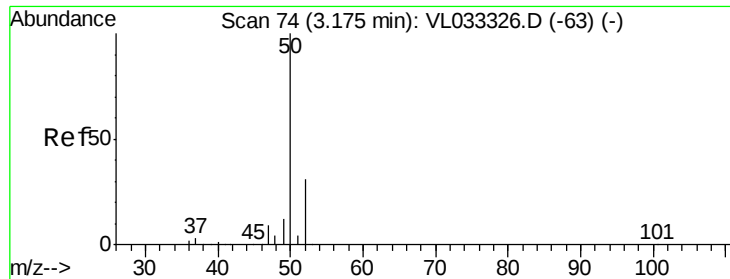
67 21.9 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.048 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

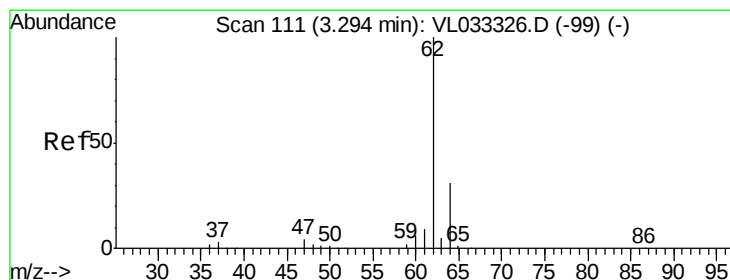
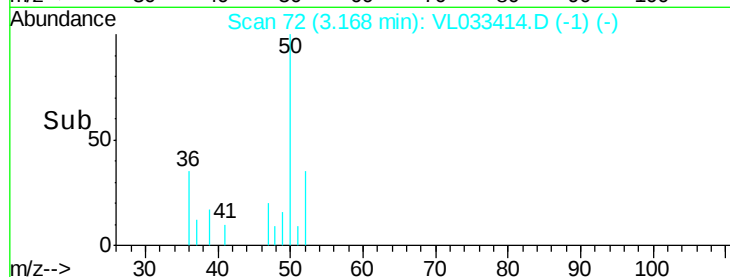
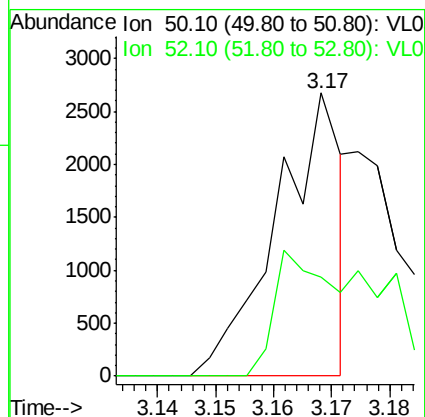
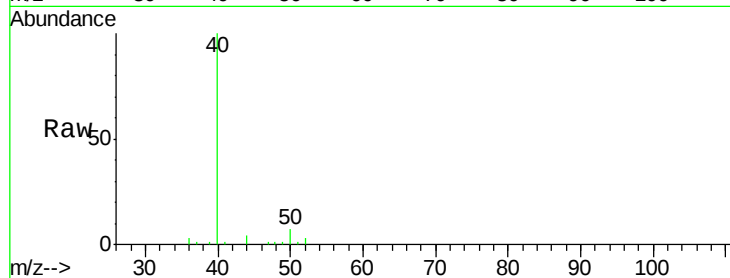
VIBLK

Tgt Ion: 50 Resp: 2082

Ion Ratio Lower Upper

50 100

52 35.0 25.0 37.6



#5

Vinyl Chloride

Concen: 0.042 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033414.D

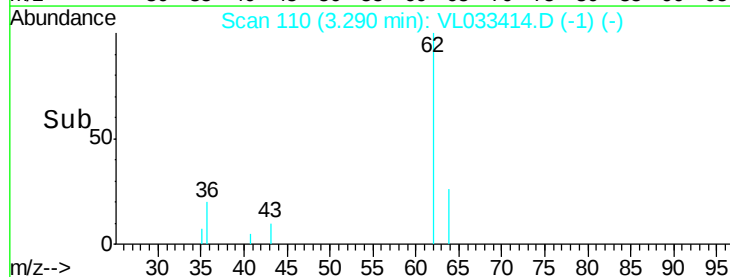
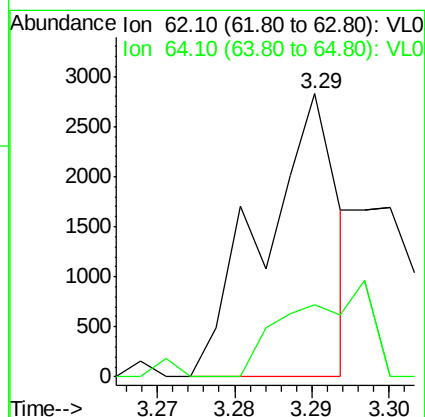
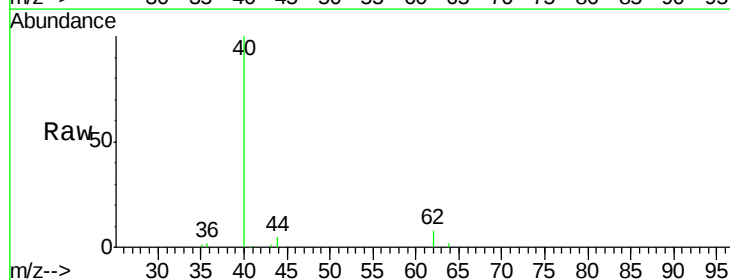
Acq: 21 Mar 2019 8:58

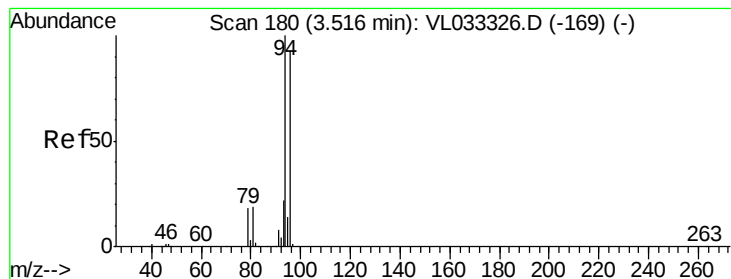
Tgt Ion: 62 Resp: 1884

Ion Ratio Lower Upper

62 100

64 25.6 25.0 37.6





#6

Bromomethane

Concen: 0.071 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

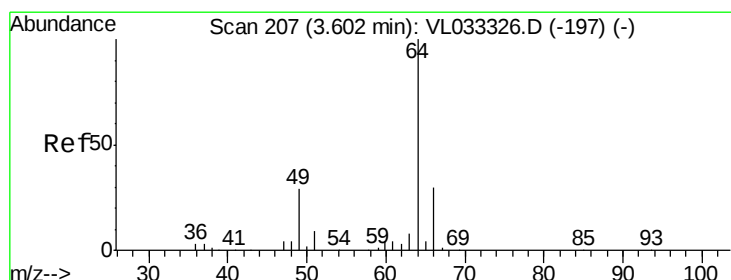
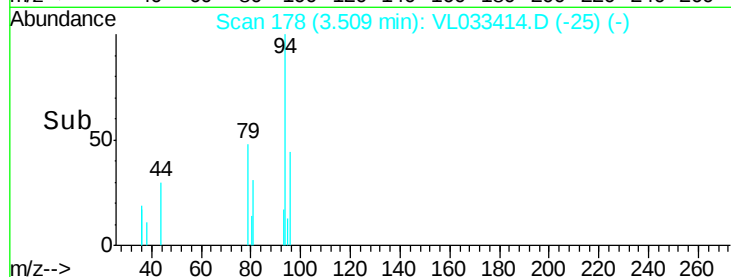
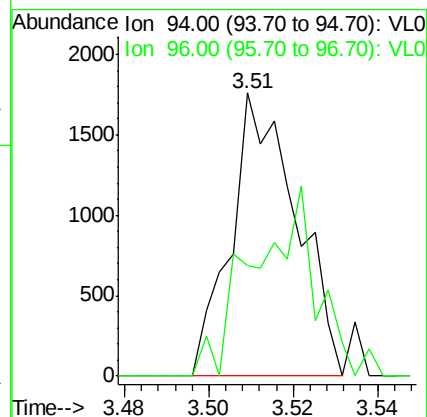
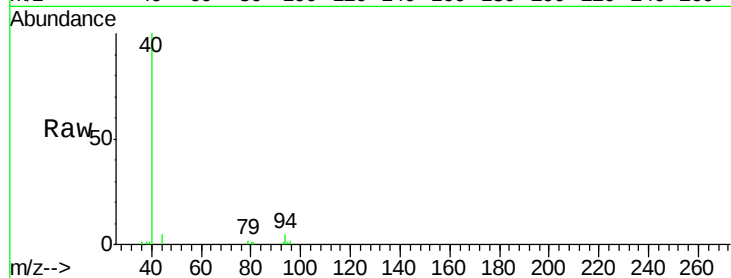
VIBLK

Tgt Ion: 94 Resp: 1892

Ion Ratio Lower Upper

94 100

96 39.2 74.6 111.8#



#7

Chloroethane

Concen: 0.032 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033414.D

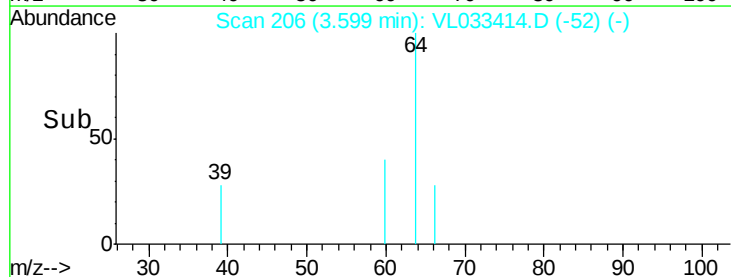
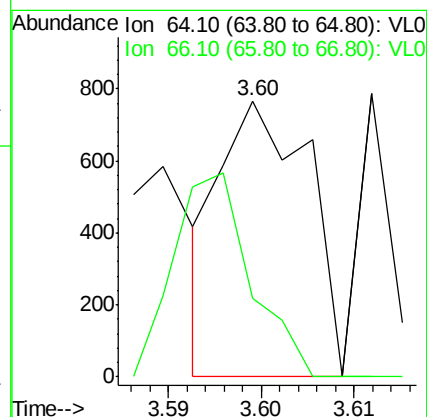
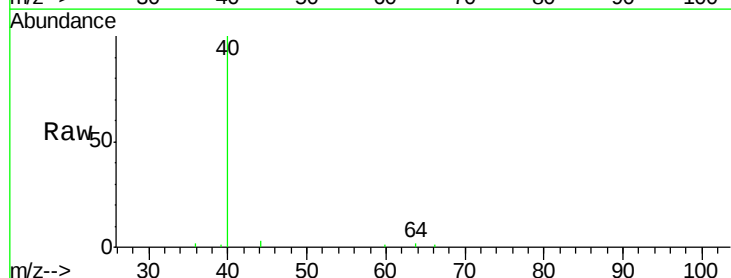
Acq: 21 Mar 2019 8:58

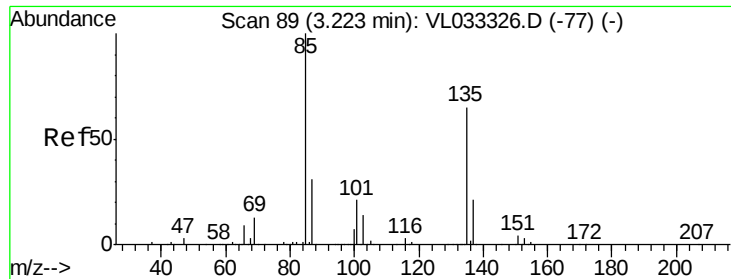
Tgt Ion: 64 Resp: 504

Ion Ratio Lower Upper

64 100

66 28.3 24.0 36.0





#8

Dichlorotetrafluoroethane

Concen: 0.083 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

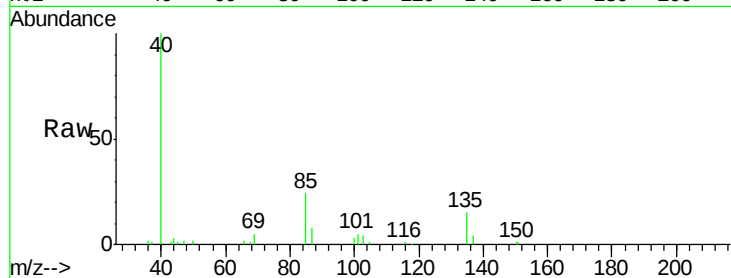
VIBLK

Tgt Ion: 85 Resp: 8659

Ion Ratio Lower Upper

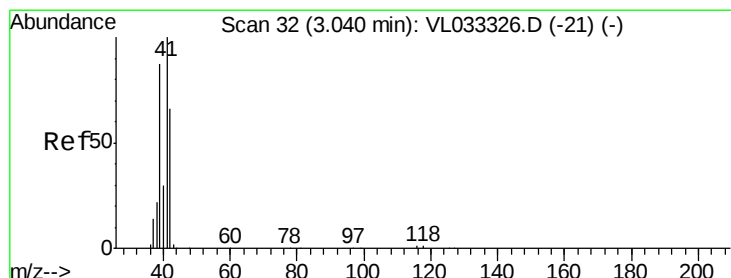
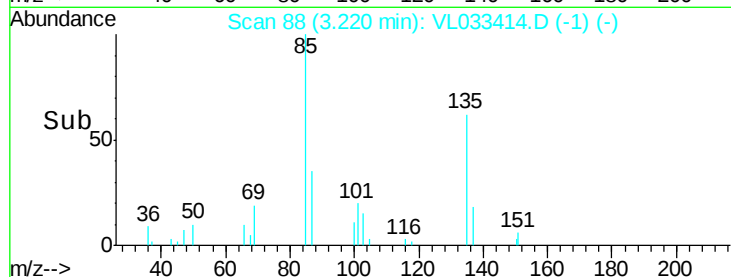
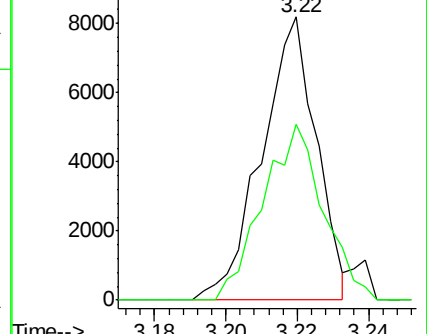
85 100

135 69.0 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.101 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033414.D

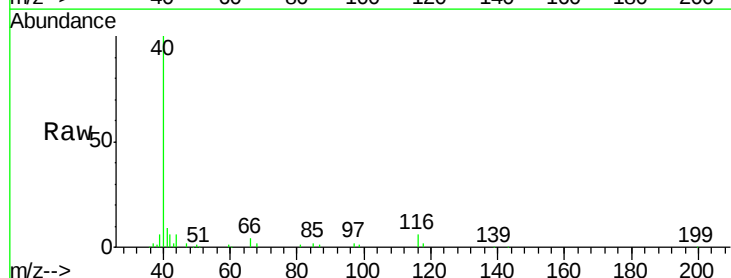
Acq: 21 Mar 2019 8:58

Tgt Ion: 41 Resp: 3628

Ion Ratio Lower Upper

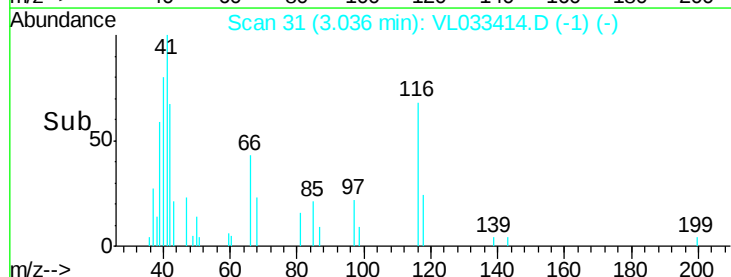
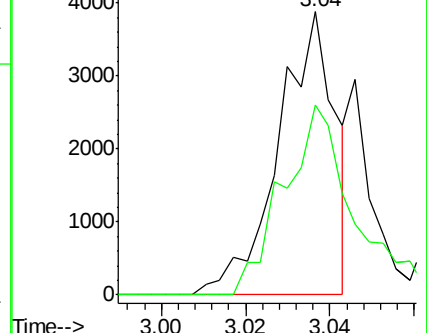
41 100

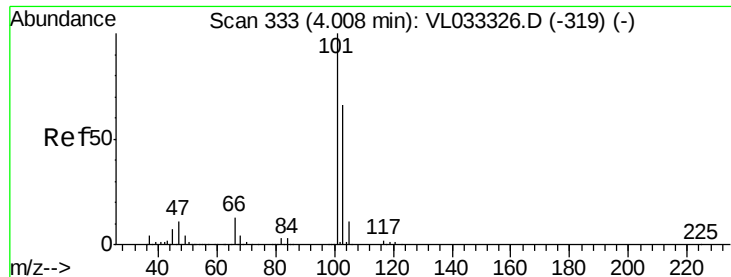
42 83.3 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.085 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

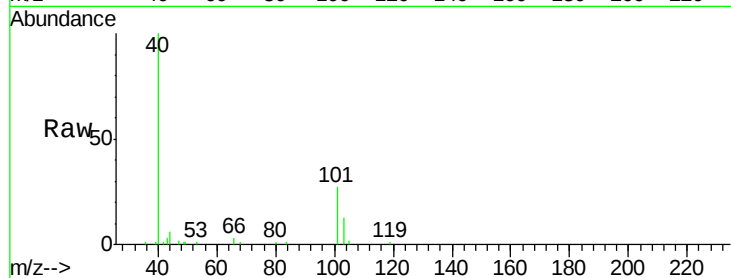
VIBLK

Tgt Ion:101 Resp: 10348

Ion Ratio Lower Upper

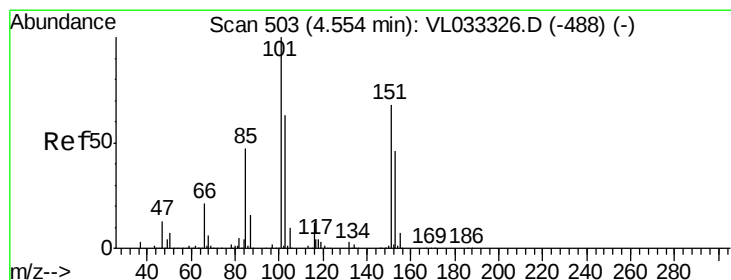
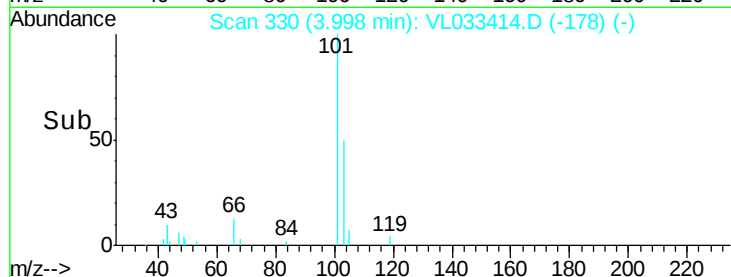
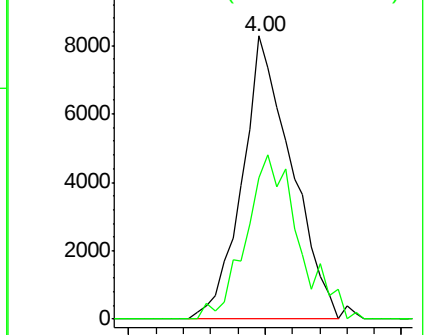
101 100

103 49.9 52.9 79.3#



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: 0.039 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL033414.D

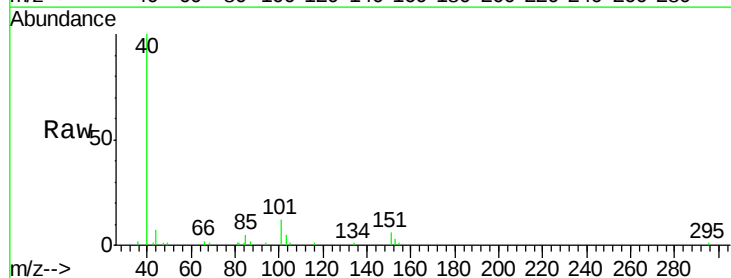
Acq: 21 Mar 2019 8:58

Tgt Ion:101 Resp: 3189

Ion Ratio Lower Upper

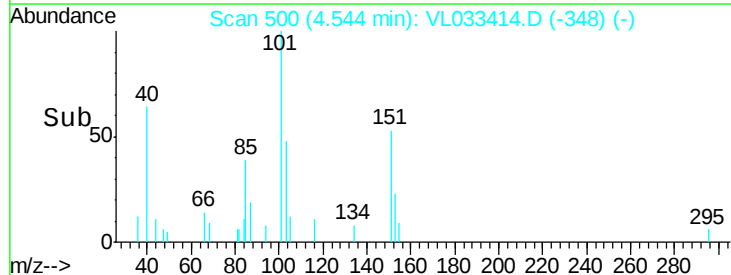
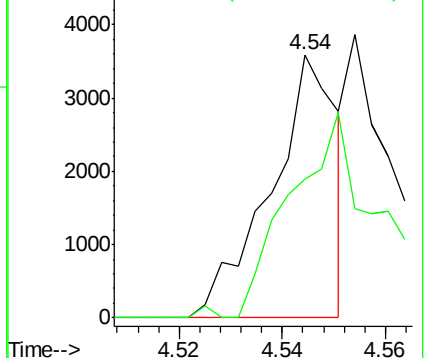
101 100

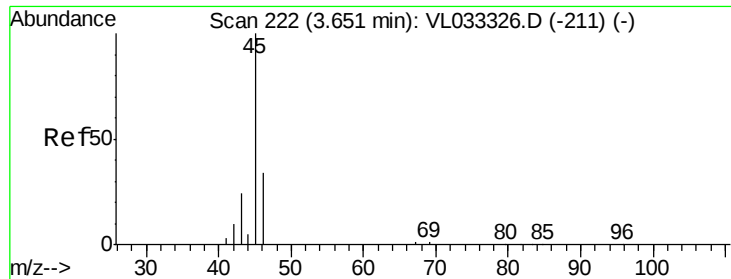
151 0.0 56.3 84.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.108 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

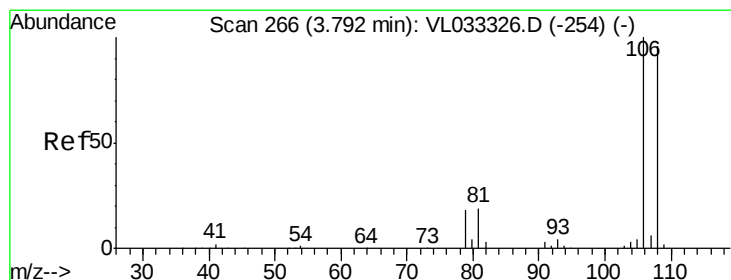
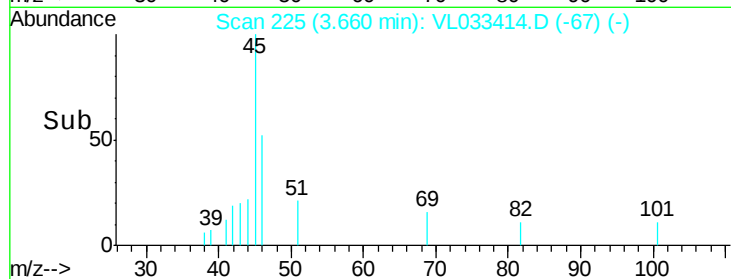
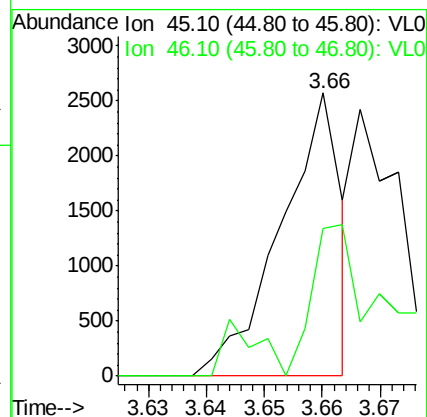
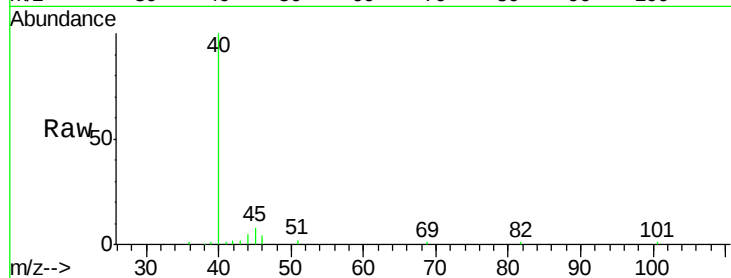
VIBLK

Tgt Ion: 45 Resp: 1848

Ion Ratio Lower Upper

45 100

46 0.0 14.9 59.7#



#14

Bromoethene

Concen: 0.057 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

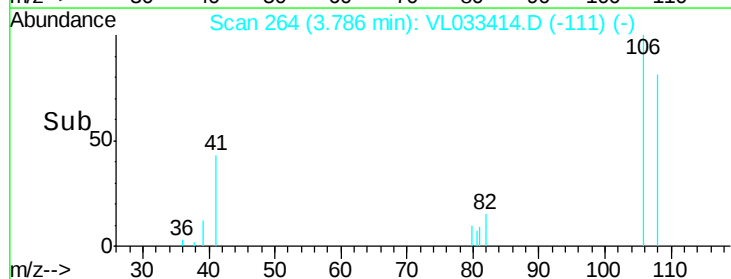
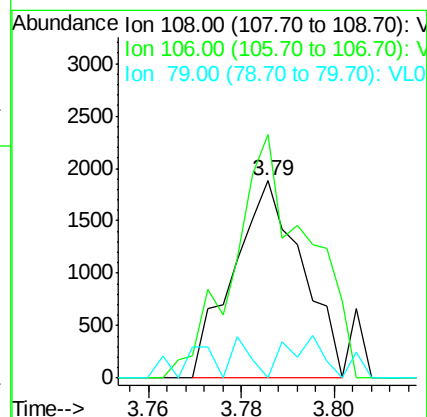
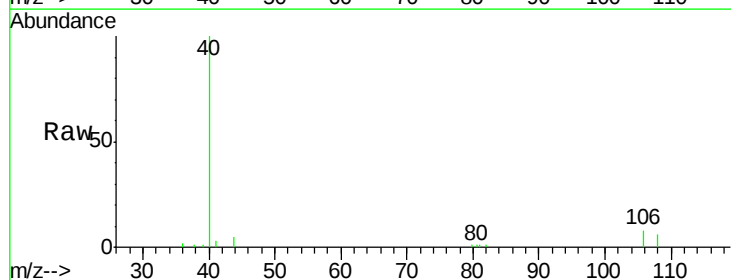
Tgt Ion: 108 Resp: 1930

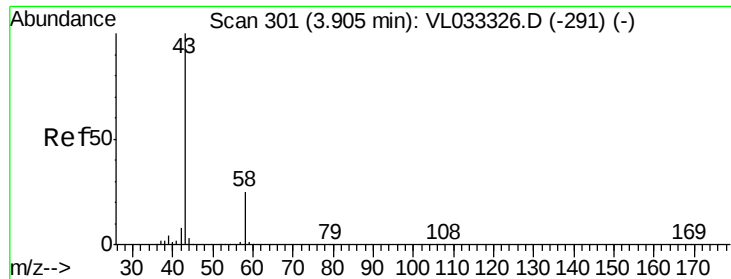
Ion Ratio Lower Upper

108 100

106 132.8 86.2 129.2#

79 0.0 15.4 23.2#





#15

Acetone

Concen: 0.633 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

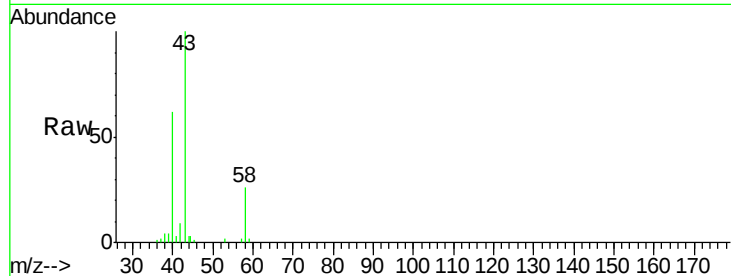
VIBLK

Tgt Ion: 43 Resp: 68724

Ion Ratio Lower Upper

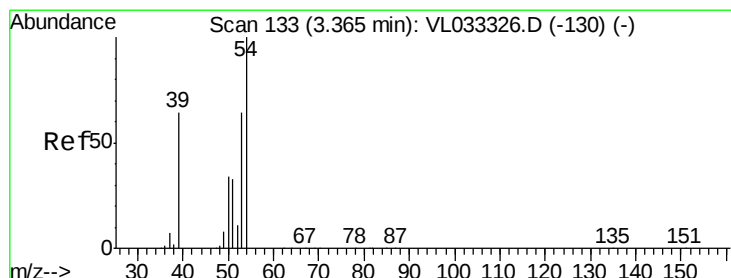
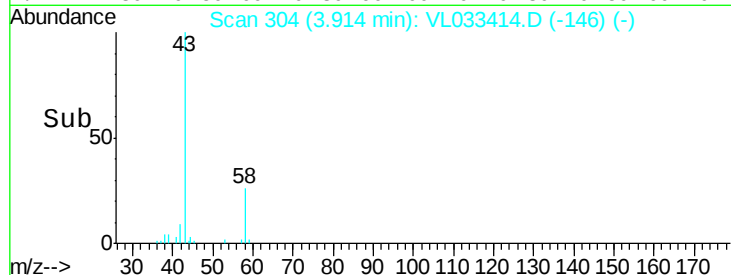
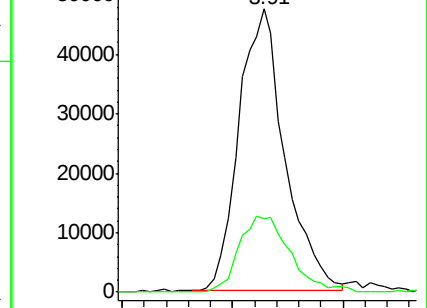
43 100

58 29.8 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.032 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.01 min

Lab File: VL033414.D

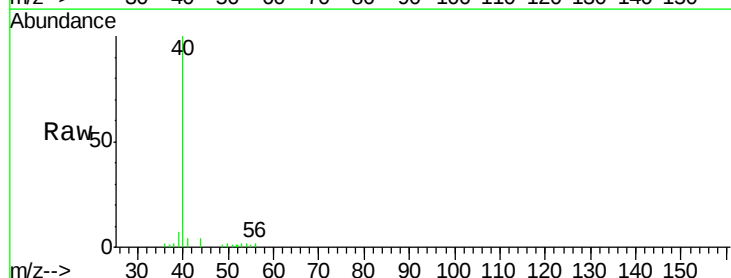
Acq: 21 Mar 2019 8:58

Tgt Ion: 39 Resp: 1119

Ion Ratio Lower Upper

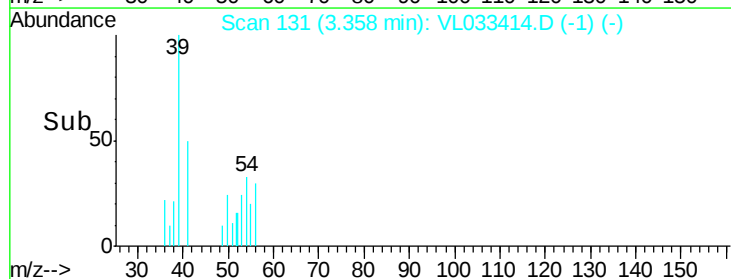
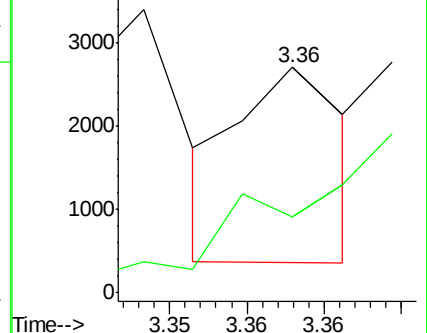
39 100

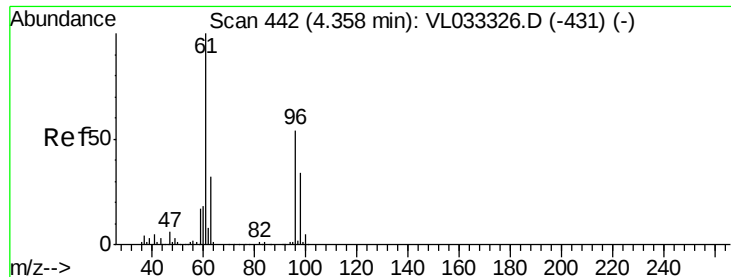
54 0.0 76.8 115.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



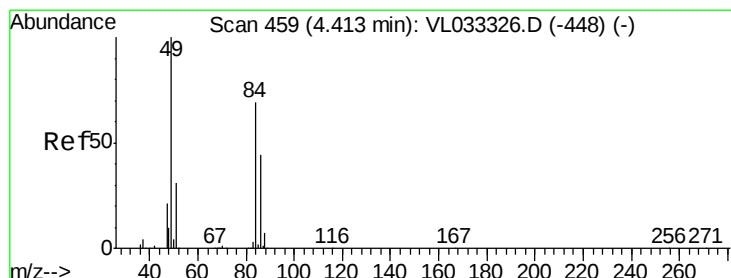
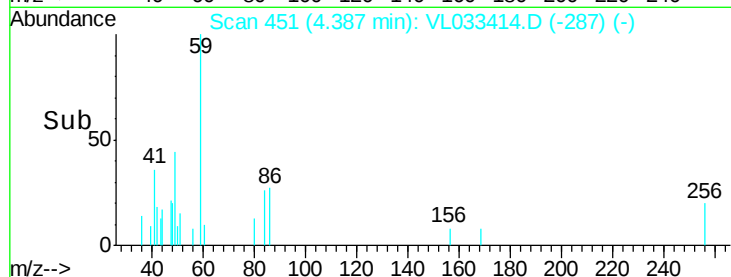
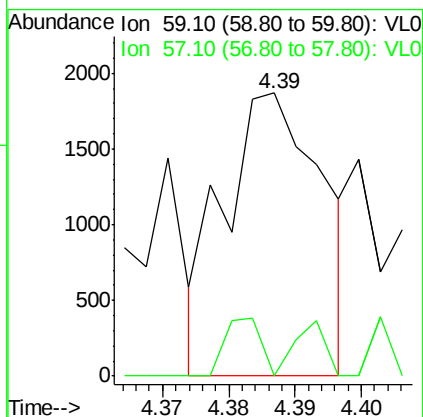
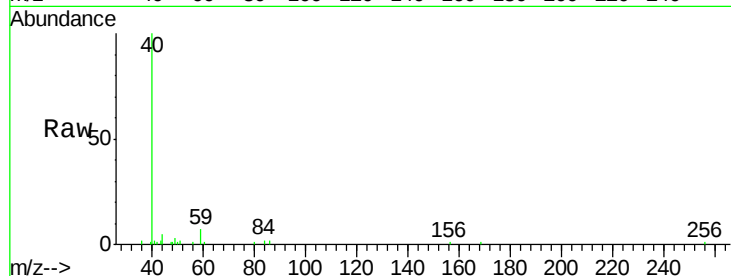


#17

tert-Butyl alcohol
Concen: 0.126 ppbv
RT: 4.39 min Scan# 451
Delta R.T. 0.03 min
Lab File: VL033414.D
Acq: 21 Mar 2019 8:58

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

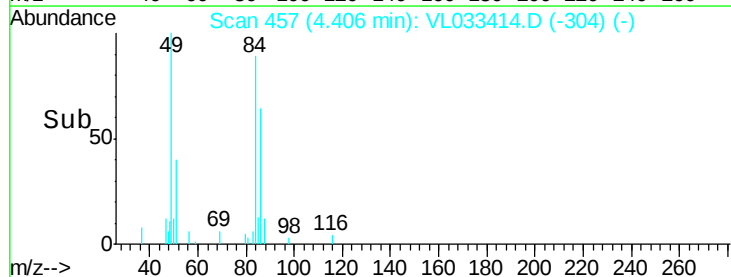
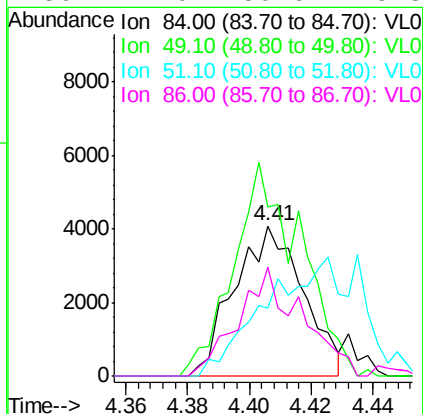
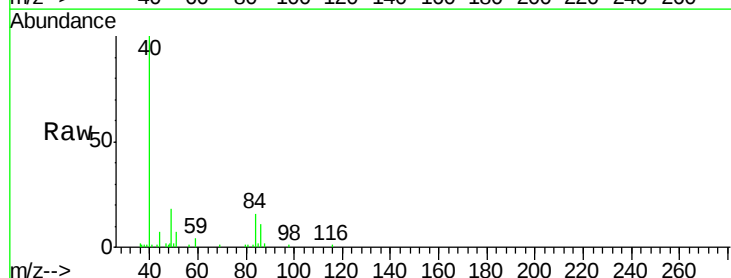
Tgt Ion: 59 Resp: 1929
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

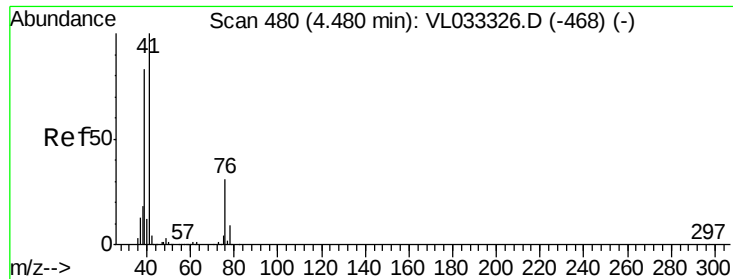


#20

Methylene Chloride
Concen: 0.178 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033414.D
Acq: 21 Mar 2019 8:58

Tgt Ion: 84 Resp: 6305
Ion Ratio Lower Upper
84 100
49 104.0 115.4 173.0#
51 45.3 35.8 53.6
86 72.0 50.6 75.8





#21

Allyl Chloride

Concen: 0.048 ppbv

RT: 4.47 min Scan# 477

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

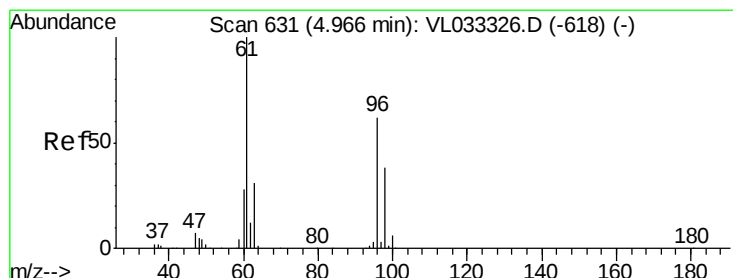
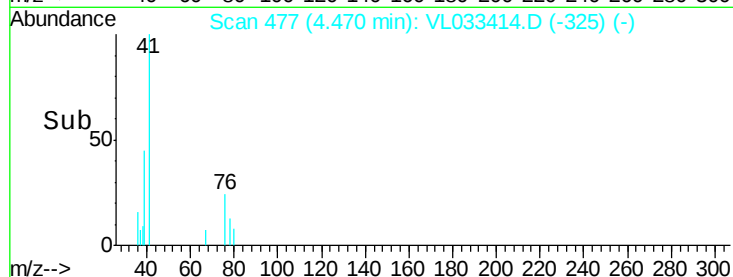
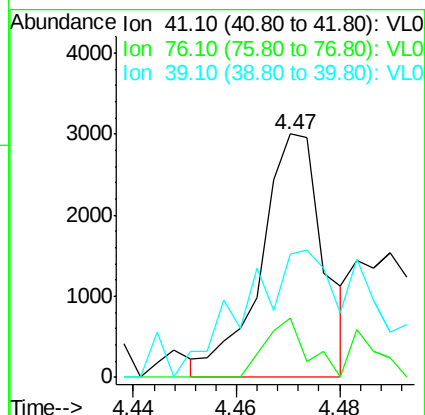
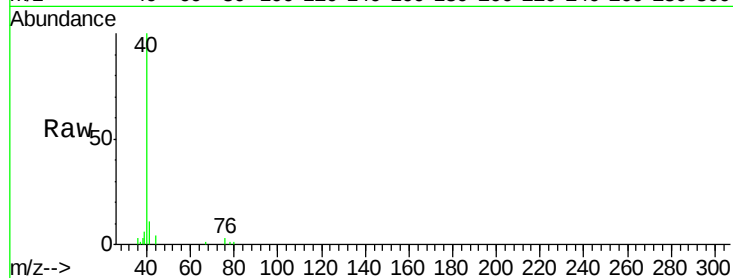
Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion:	41	Resp:	2527
Ion	Ratio	Lower	Upper
41	100		
76	25.0	25.0	37.4
39	125.1	65.9	98.9#



#22

trans-1,2-Dichloroethene

Concen: 0.052 ppbv

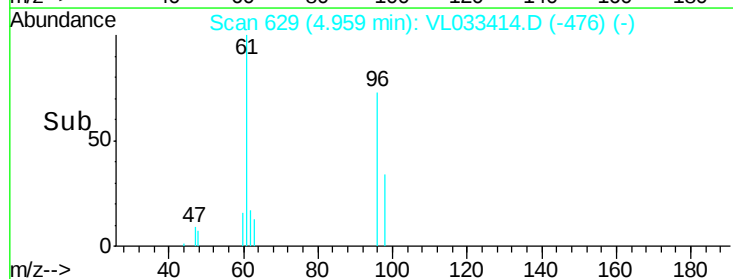
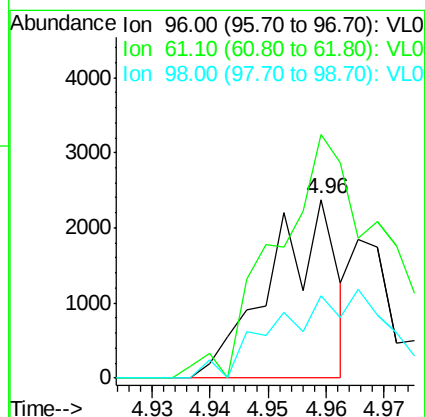
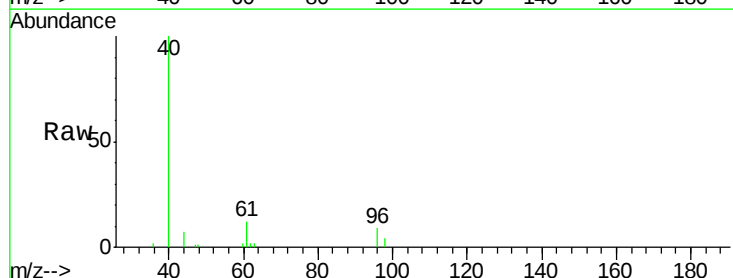
RT: 4.96 min Scan# 629

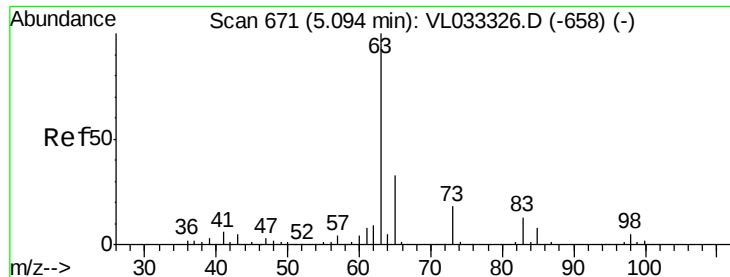
Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Tgt Ion:	96	Resp:	1855
Ion	Ratio	Lower	Upper
96	100		
61	129.6	130.0	195.0#
98	46.4	50.0	75.0#





#24

1,1-Dichloroethane

Concen: 0.034 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

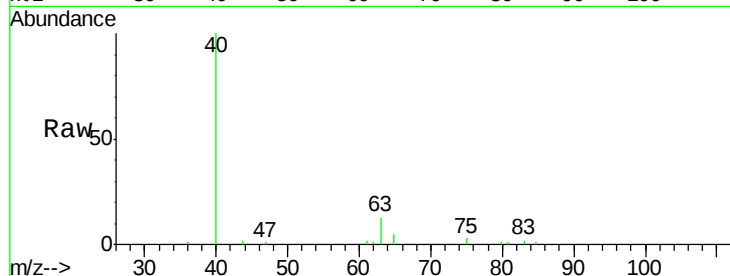
Tgt Ion: 63 Resp: 3063

Ion Ratio Lower Upper

63 100

98 0.0 2.4 7.1#

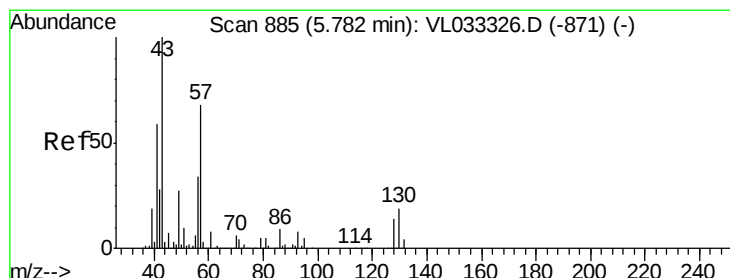
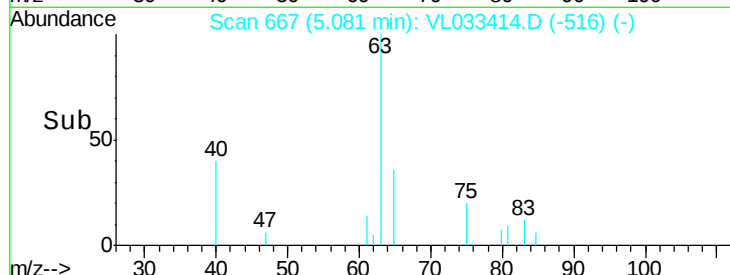
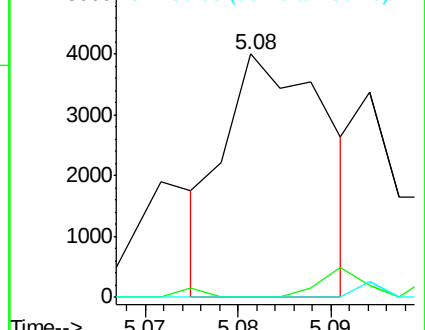
100 0.0 1.3 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#26

Hexane

Concen: 0.049 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Tgt Ion: 57 Resp: 3468

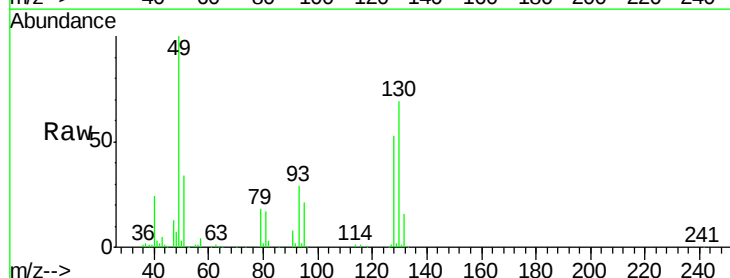
Ion Ratio Lower Upper

57 100

41 0.0 70.5 105.7#

43 0.0 181.8 272.8#

56 0.0 42.2 63.2#

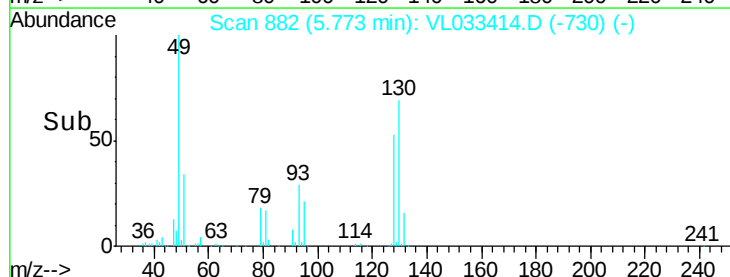
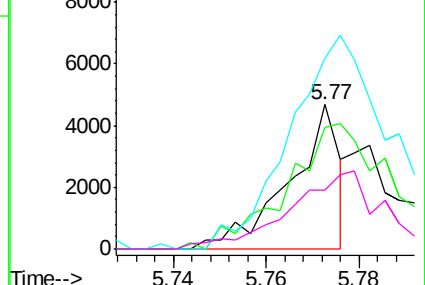


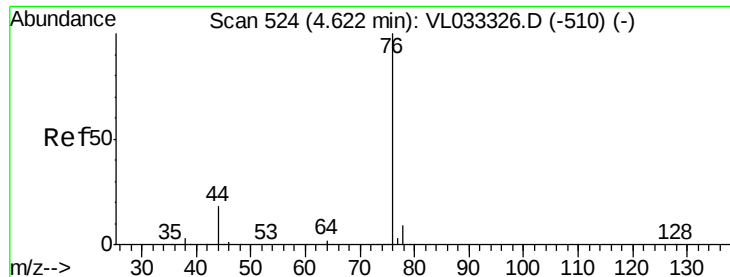
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.039 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

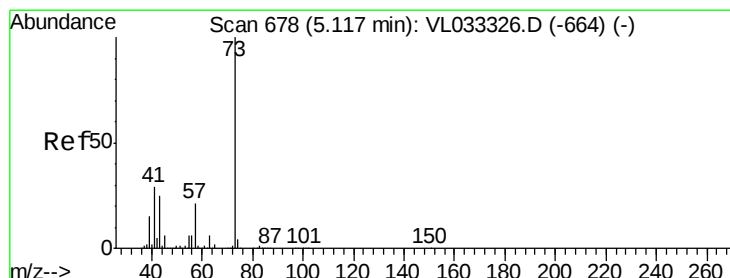
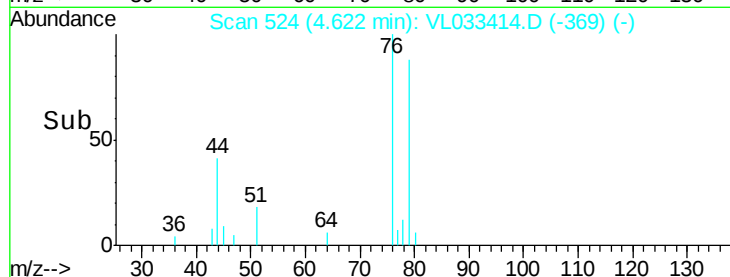
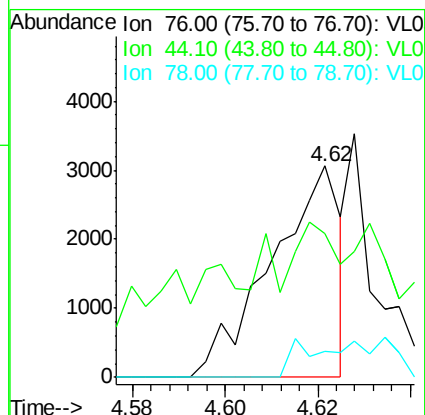
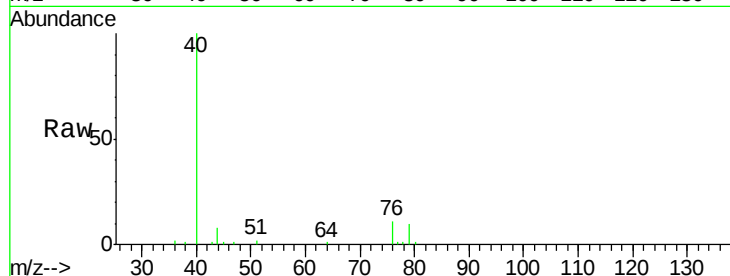
Tgt Ion: 76 Resp: 3152

Ion Ratio Lower Upper

76 100

44 126.0 15.2 22.8#

78 0.0 7.2 10.8#



#28

Methyl tert-Butyl Ether

Concen: 0.054 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.01 min

Lab File: VL033414.D

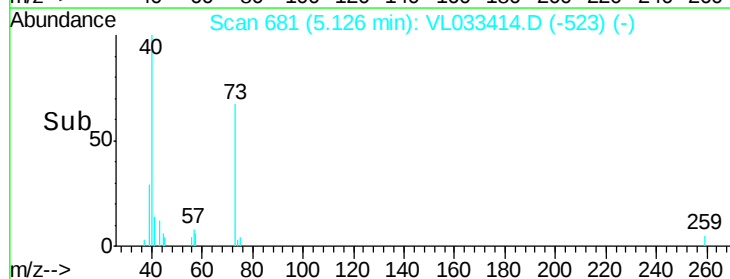
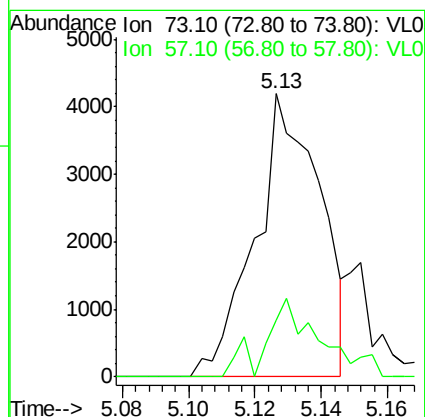
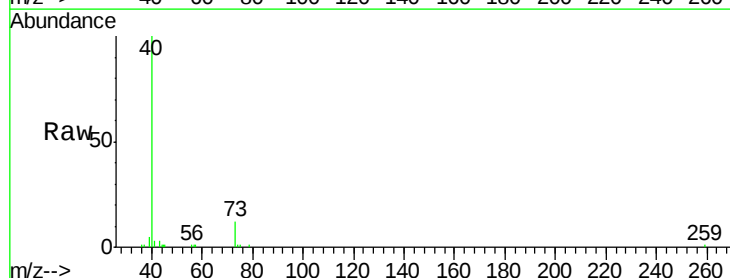
Acq: 21 Mar 2019 8:58

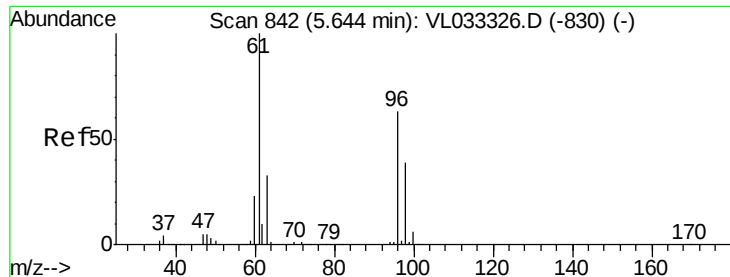
Tgt Ion: 73 Resp: 5693

Ion Ratio Lower Upper

73 100

57 23.9 17.4 26.0





#31

cis-1,2-Dichloroethene

Concen: 0.035 ppbv

RT: 5.63 min Scan# 839

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

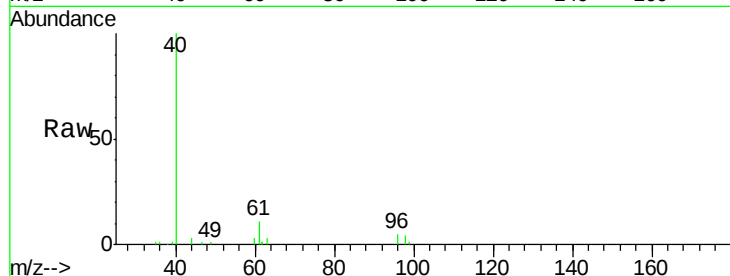
Tgt Ion: 61 Resp: 2455

Ion Ratio Lower Upper

61 100

96 4.3 50.3 75.5#

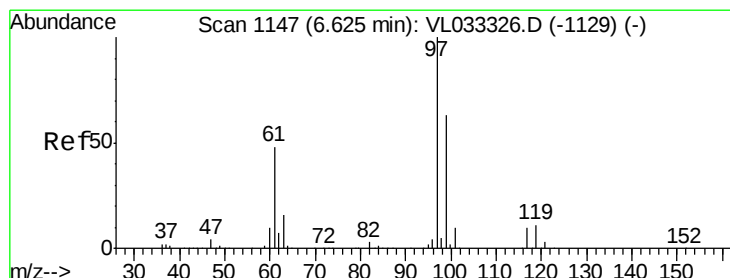
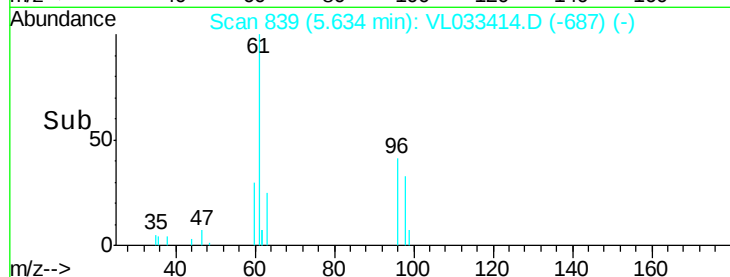
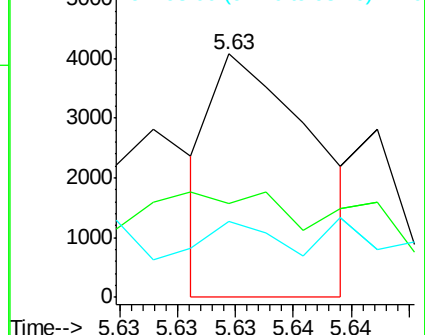
98 23.5 31.5 47.3#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.061 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

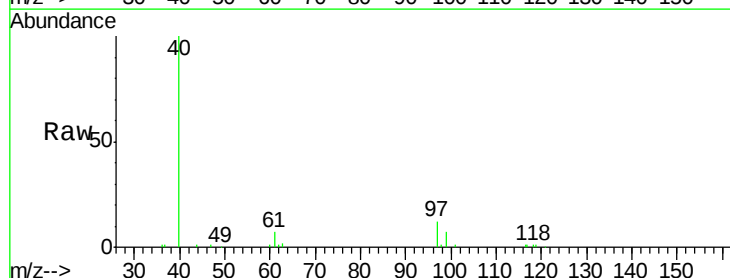
Tgt Ion: 97 Resp: 6888

Ion Ratio Lower Upper

97 100

99 65.7 51.0 76.6

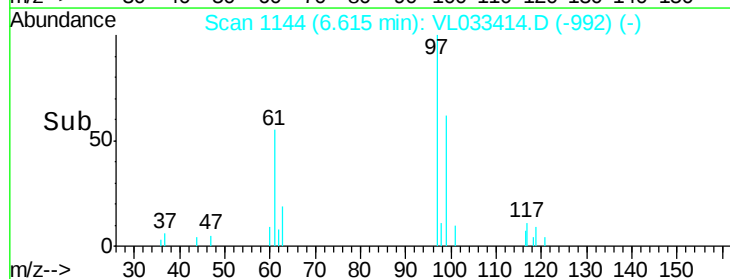
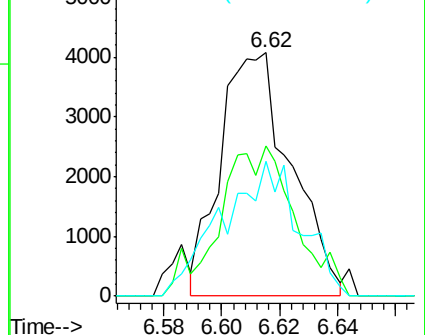
61 61.2 39.3 58.9#

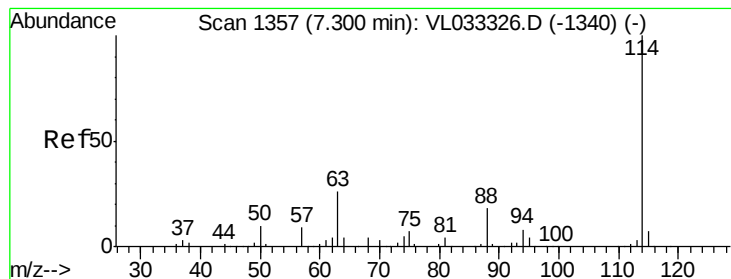


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.02 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

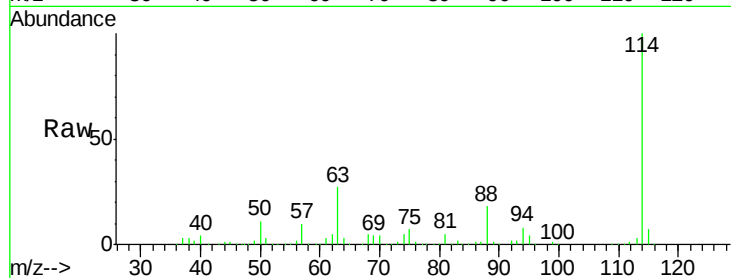
Tgt Ion:114 Resp: 1633891

Ion Ratio Lower Upper

114 100

63 26.3 21.4 32.2

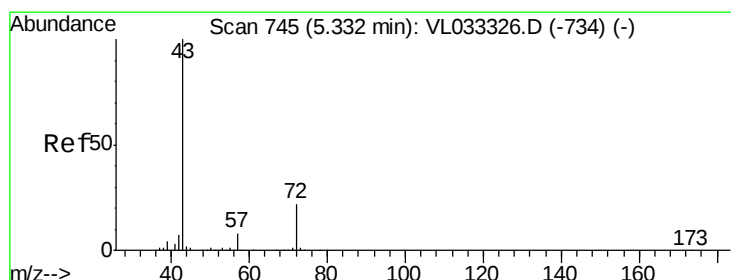
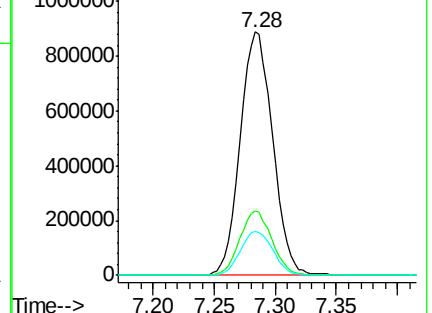
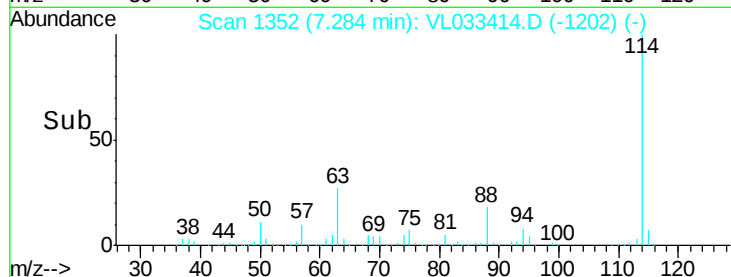
88 18.1 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.064 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.01 min

Lab File: VL033414.D

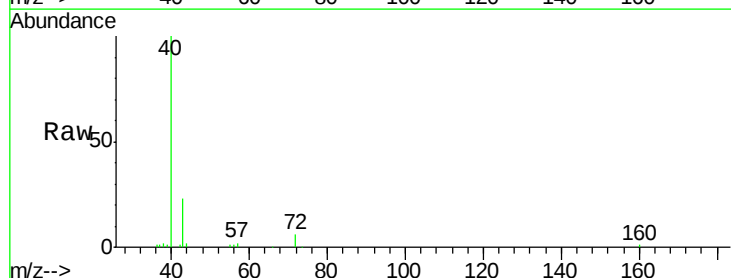
Acq: 21 Mar 2019 8:58

Tgt Ion: 43 Resp: 6866

Ion Ratio Lower Upper

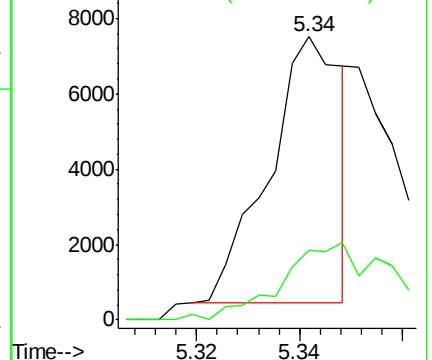
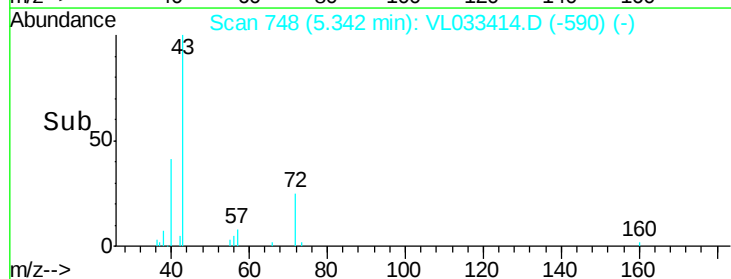
43 100

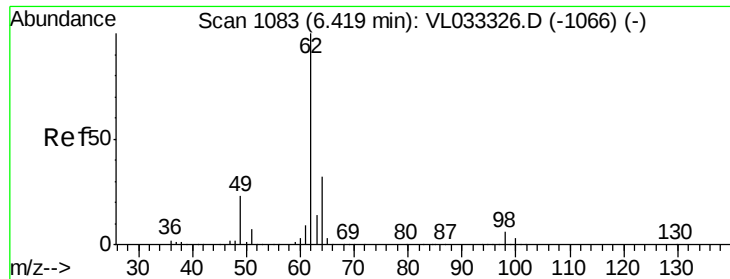
72 45.7 17.7 26.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

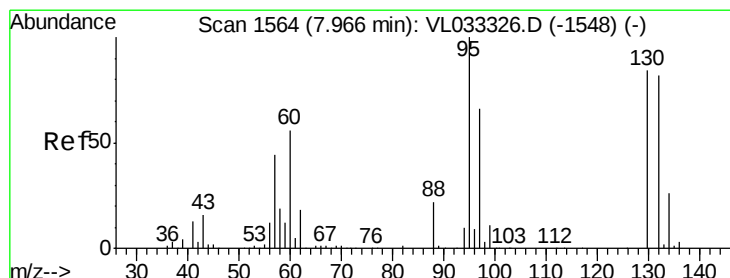
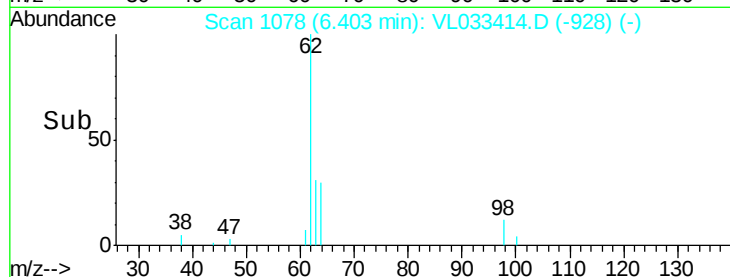
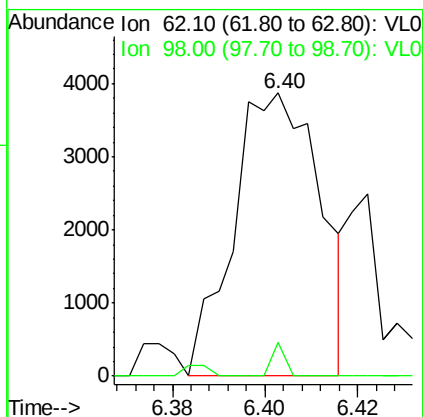
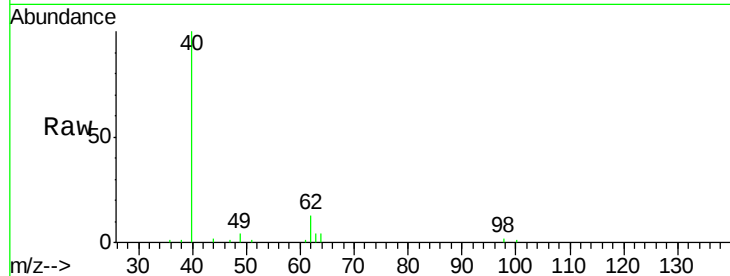




#37
 1,2-Dichloroethane
 Concen: 0.055 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.02 min
 Lab File: VL033414.D
 Acq: 21 Mar 2019 8:58

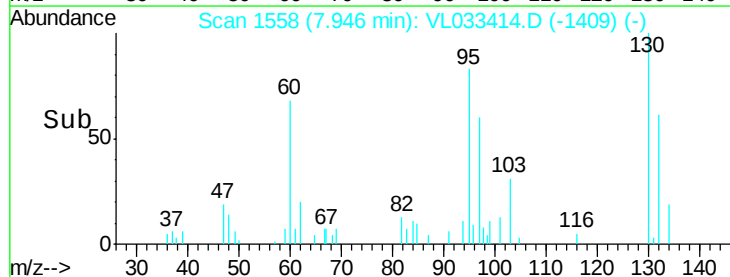
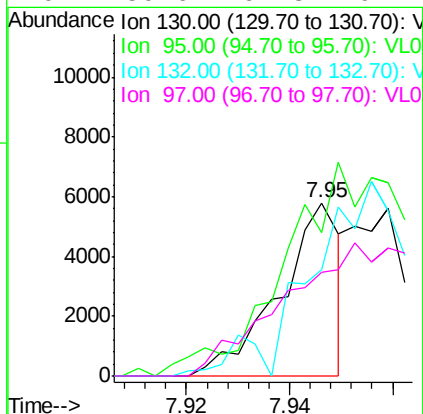
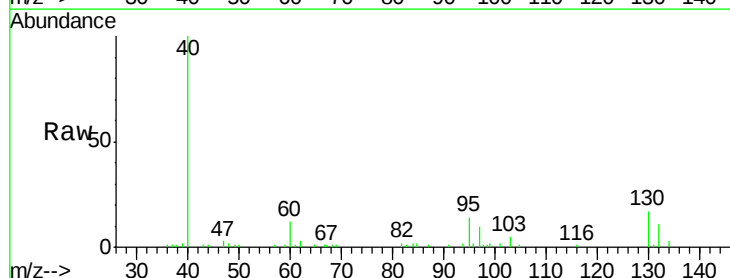
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

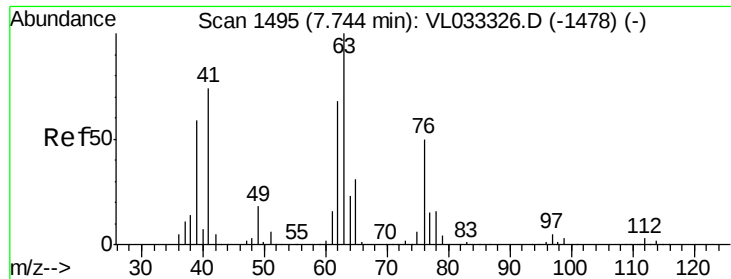
Tgt Ion: 62 Resp: 5047
 Ion Ratio Lower Upper
 62 100
 98 2.9 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.085 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.02 min
 Lab File: VL033414.D
 Acq: 21 Mar 2019 8:58

Tgt Ion: 130 Resp: 4706
 Ion Ratio Lower Upper
 130 100
 95 71.7 95.2 142.8#
 132 58.2 77.7 116.5#
 97 59.6 62.8 94.2#





#39

1,2-Dichloropropane

Concen: 7.813 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

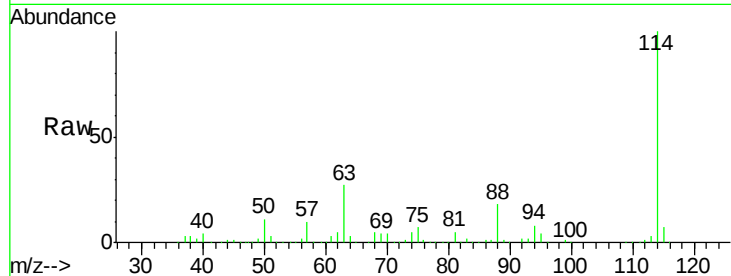
Tgt Ion: 63 Resp: 427861

Ion Ratio Lower Upper

63 100

41 0.1 59.5 89.3#

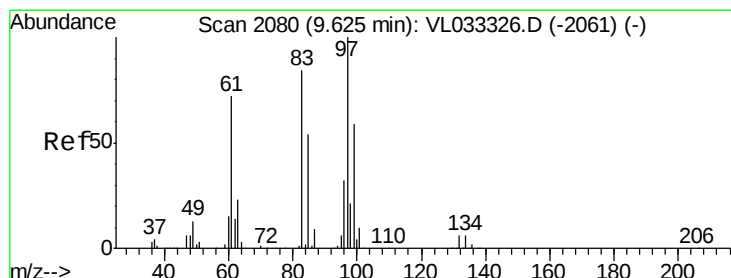
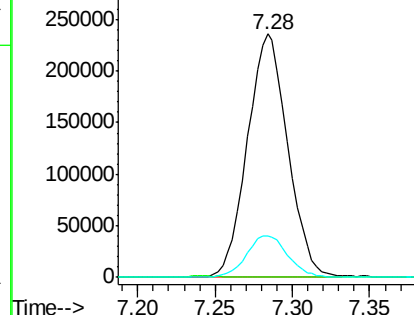
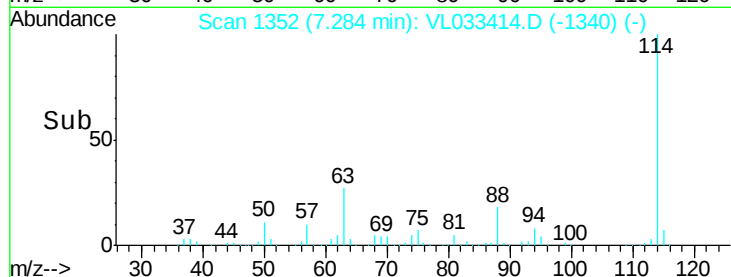
62 17.1 54.7 82.1#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.033 ppbv

RT: 9.61 min Scan# 2074

Delta R.T. -0.02 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Tgt Ion: 97 Resp: 1984

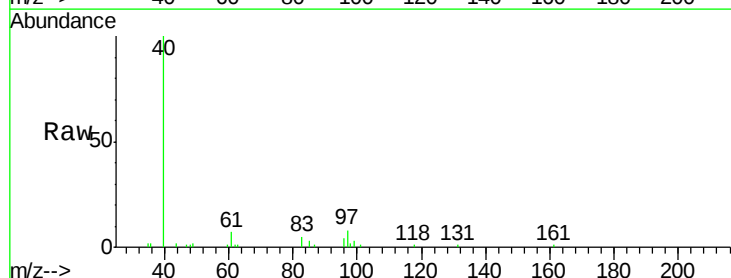
Ion Ratio Lower Upper

97 100

83 64.7 67.4 101.0#

85 23.2 43.0 64.4#

99 7.7 47.0 70.6#

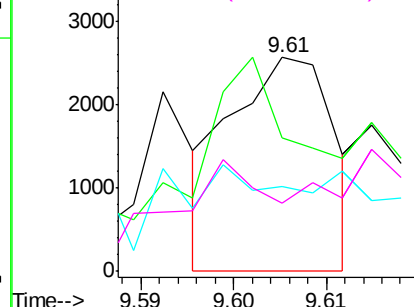
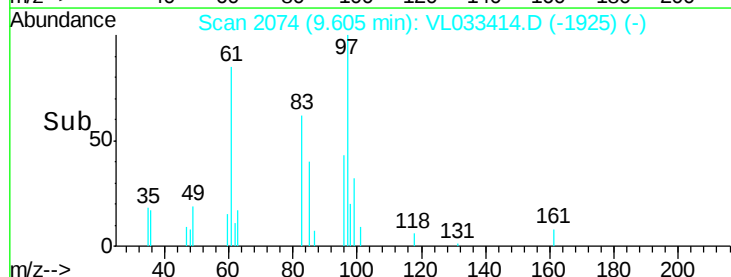


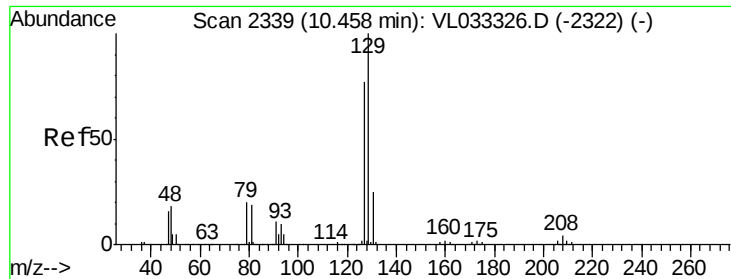
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.057 ppbv

RT: 10.44 min Scan# 2335

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

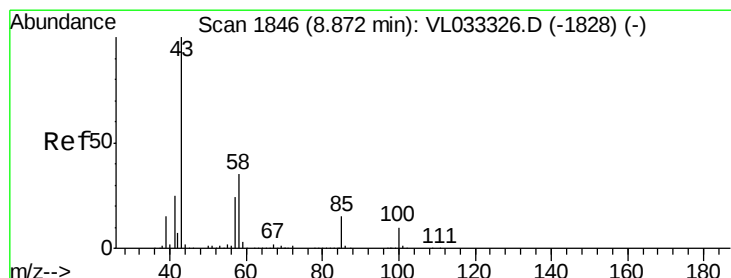
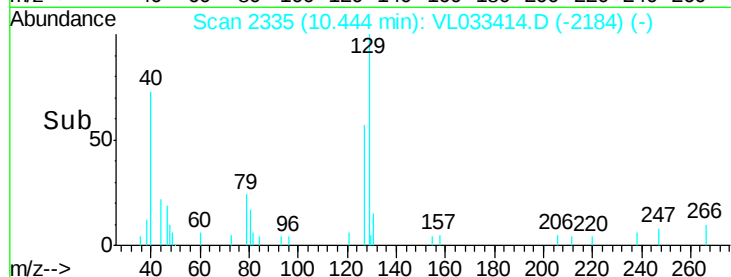
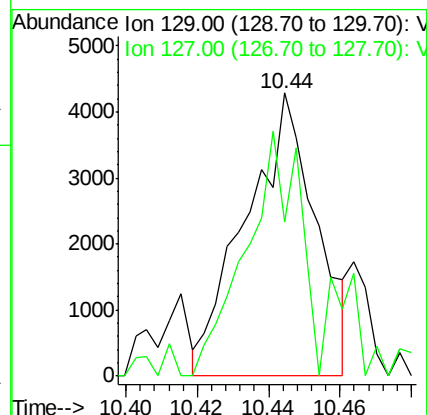
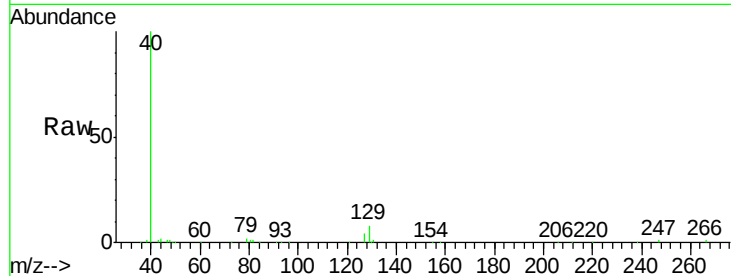
VIBLK

Tgt Ion:129 Resp: 5816

Ion Ratio Lower Upper

129 100

127 84.6 38.9 116.6



#50

4-Methyl-2-Pentanone

Concen: 0.067 ppbv

RT: 8.89 min Scan# 1853

Delta R.T. 0.02 min

Lab File: VL033414.D

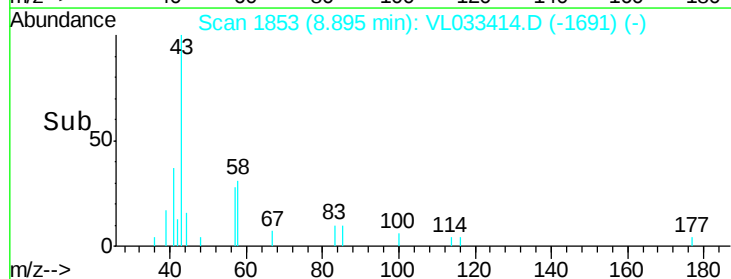
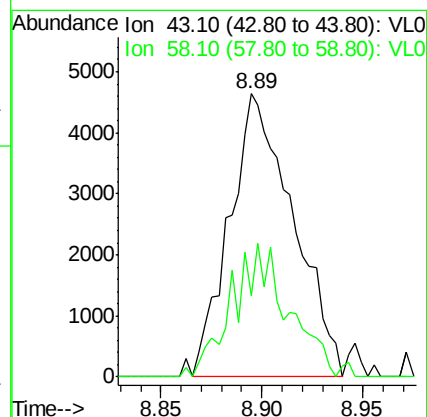
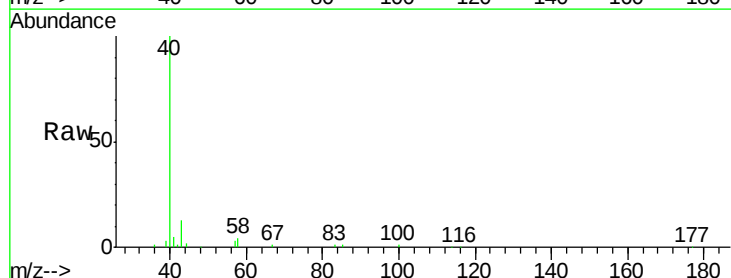
Acq: 21 Mar 2019 8:58

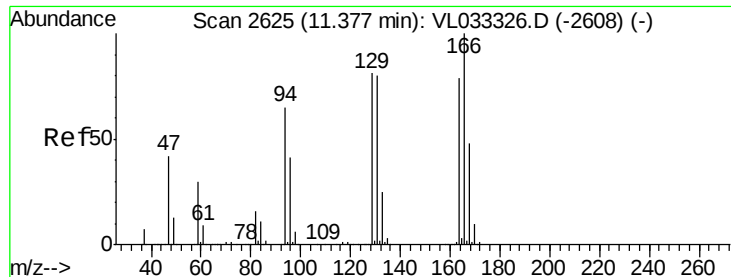
Tgt Ion: 43 Resp: 10193

Ion Ratio Lower Upper

43 100

58 42.0 28.4 42.6





#52

Tetrachloroethene

Concen: 28.236 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion:164 Resp: 1720076

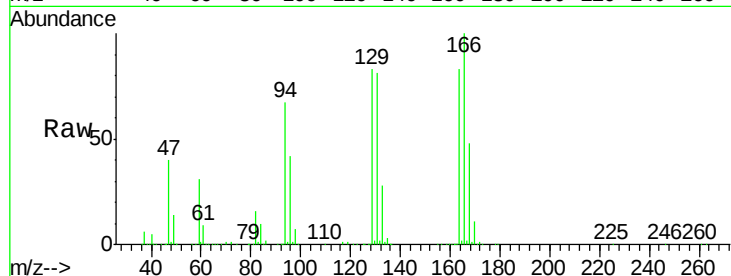
Ion Ratio Lower Upper

164 100

166 120.3 101.5 152.3

129 99.8 82.2 123.2

131 98.1 81.1 121.7

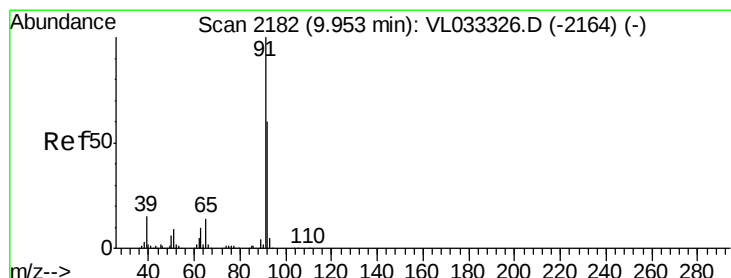
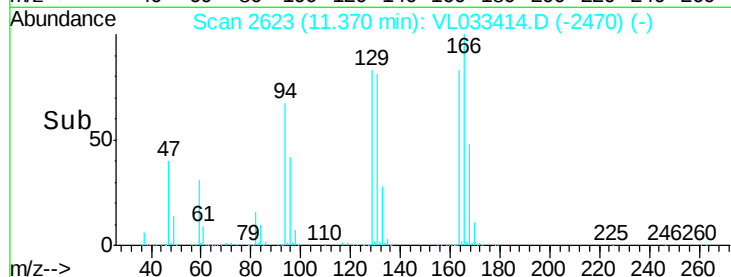
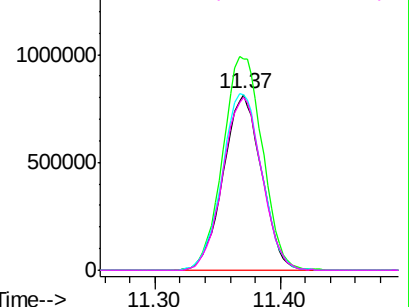


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.061 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033414.D

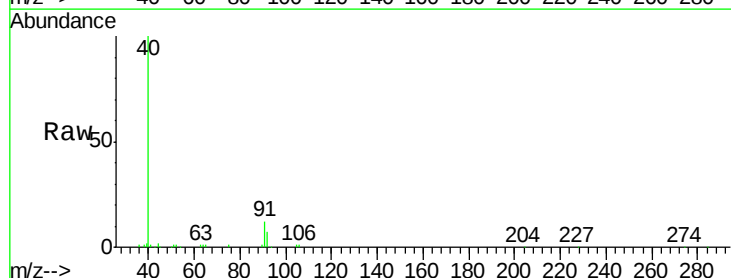
Acq: 21 Mar 2019 8:58

Tgt Ion: 91 Resp: 10214

Ion Ratio Lower Upper

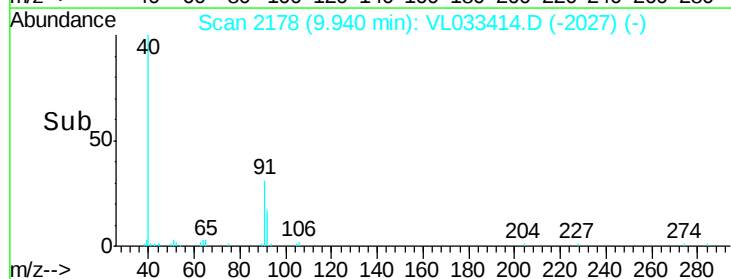
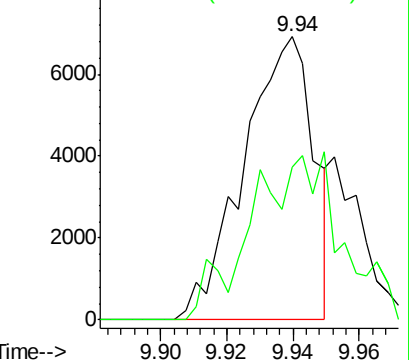
91 100

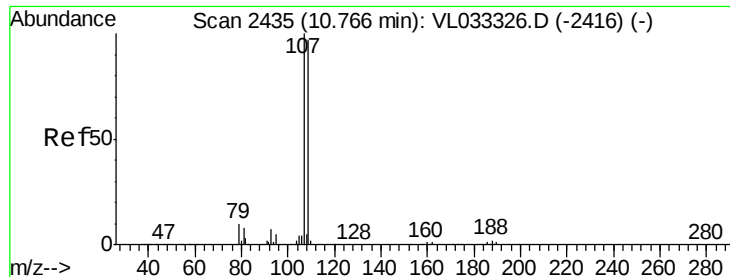
92 0.0 47.4 71.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.044 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

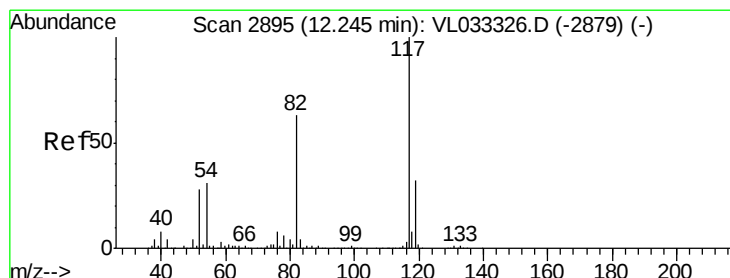
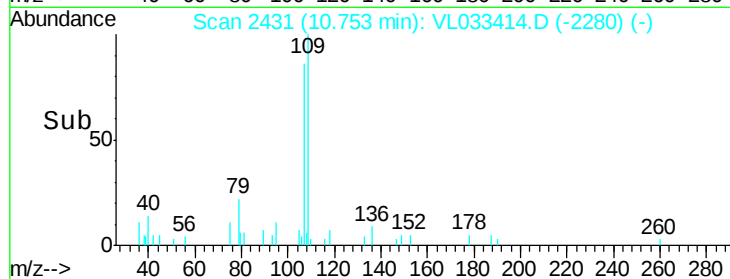
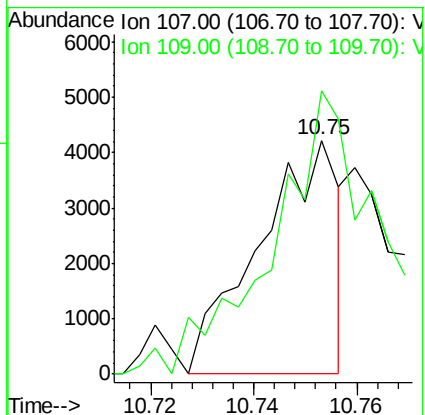
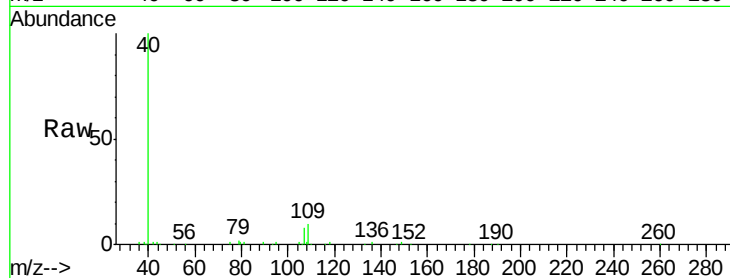
VIBLK

Tgt Ion:107 Resp: 4535

Ion Ratio Lower Upper

107 100

109 100.7 77.2 115.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

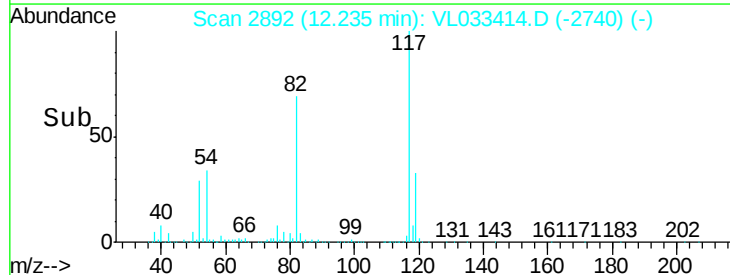
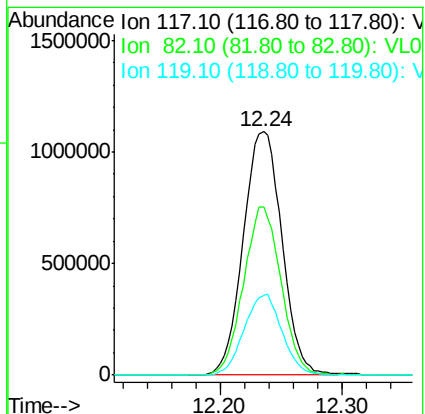
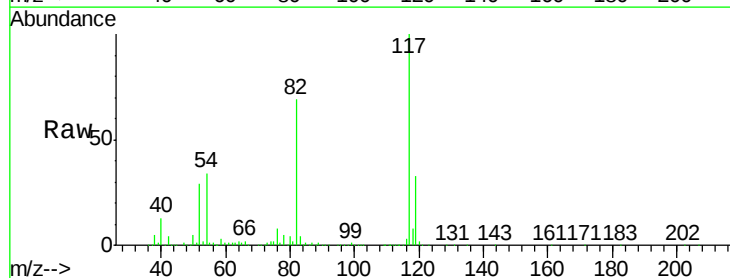
Tgt Ion:117 Resp: 2390830

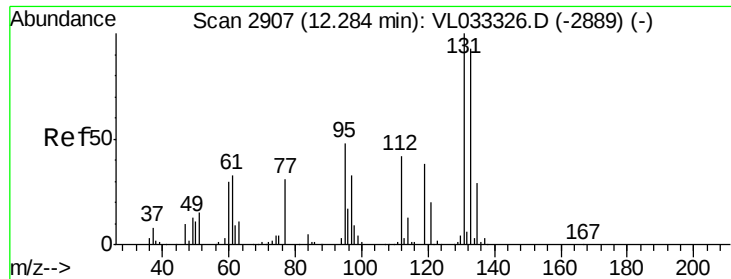
Ion Ratio Lower Upper

117 100

82 67.2 53.4 80.2

119 32.4 27.3 40.9

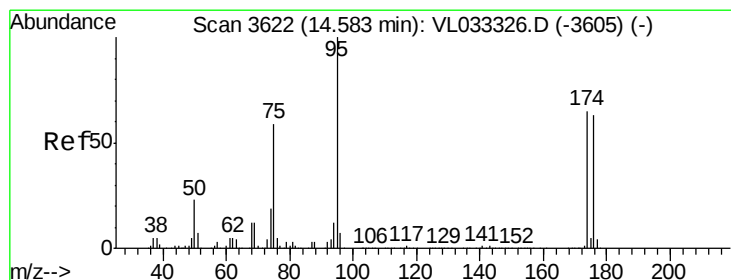
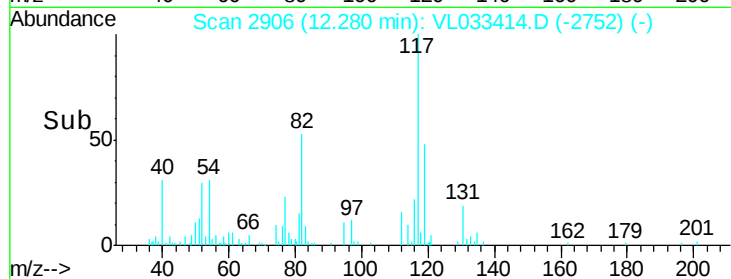
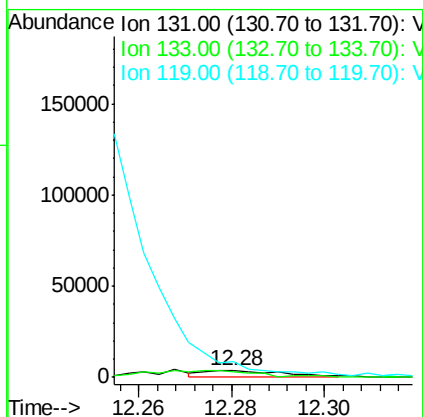
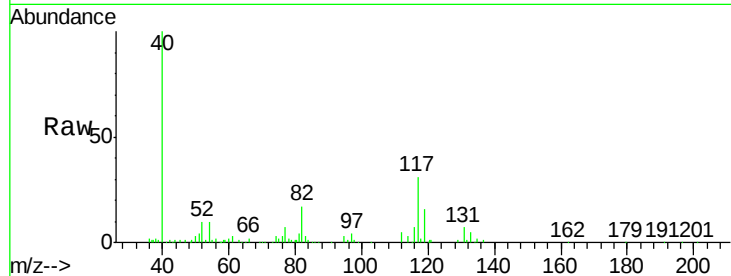




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.042 ppbv
 RT: 12.28 min Scan# 2906
 Delta R.T. -0.00 min
 Lab File: VL033414.D
 Acq: 21 Mar 2019 8:58

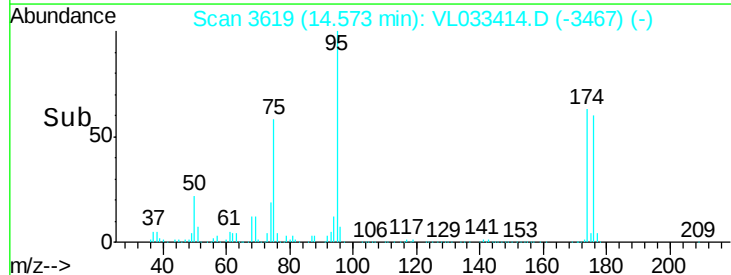
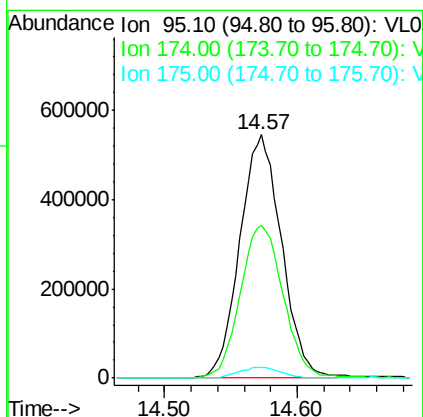
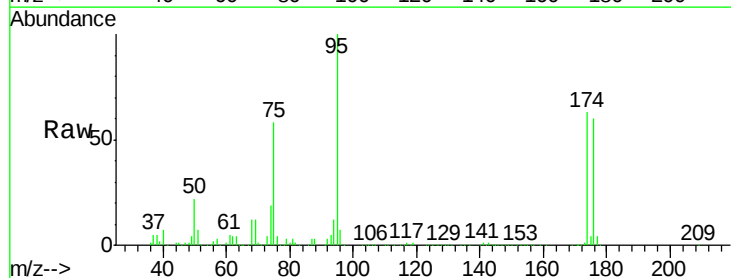
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

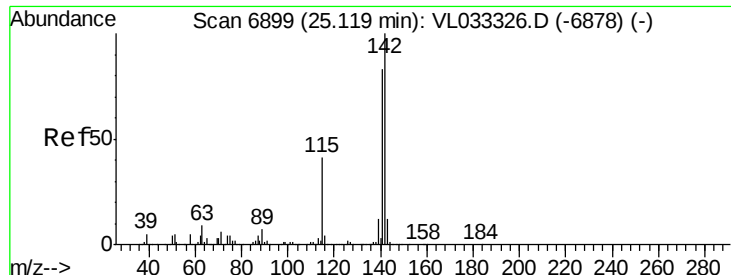
Tgt Ion: 131 Resp: 4502
 Ion Ratio Lower Upper
 131 100
 133 162.0 76.7 115.1#
 119 0.0 40.3 60.5#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 6.732 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033414.D
 Acq: 21 Mar 2019 8:58

Tgt Ion: 95 Resp: 1192705
 Ion Ratio Lower Upper
 95 100
 174 65.2 51.5 77.3
 175 4.6 3.8 5.6





#80

Naphthalene, 2-methyl-

Concen: 0.031 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.01 min

Lab File: VL033414.D

Acq: 21 Mar 2019 8:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion:142 Resp: 4656

Ion Ratio Lower Upper

142 100

141 76.9 67.1 100.7

115 29.9 33.8 50.6#

