

Data File : VX001996.D

Acq On : 26 May 2018 00:36

Operator : JC/MD

Sample : PB109661ZHE#04

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB109661ZHE#04

Quant Time: May 26 04:24:12 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M

Quant Title : SW846 8260

QLast Update : Thu May 24 13:09:03 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	289895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	448401	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	408134	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	214125	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	285594	55.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.22%	
35) Dibromofluoromethane	5.51	113	219457	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	
50) Toluene-d8	8.72	98	762964	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
62) 4-Bromofluorobenzene	11.14	95	279529	44.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	328	Below Cal		95
5) Bromomethane	1.65	94	1093	Below Cal		97
6) Chloroethane	1.65	64	6380	2.51	ug/l #	50
10) Methyl Iodide	2.52	142	2325	0.48	ug/l #	80
11) Tert butyl alcohol	3.02	59	2967	2.92	ug/l #	88
13) Acrolein	2.30	56	144	0.33	ug/l #	14
15) Acrylonitrile	3.17	53	441	0.21	ug/l #	26
16) Acetone	2.45	43	15139	7.57	ug/l	96
18) Methyl Acetate	2.78	43	28641	4.92	ug/l	99
20) Methylene Chloride	2.86	84	6875	0.33	ug/l	96
21) trans-1,2-Dichloroethene	3.16	96	228	Below Cal	#	10
25) 2-Butanone	4.71	43	3644	0.99	ug/l #	87
28) Bromochloromethane	5.03	49	75	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	1596	0.67	ug/l #	84
31) Cyclohexane	5.67	56	6186	0.87	ug/l #	9
36) 1,1-Dichloropropene	5.67	75	20754	3.33	ug/l #	51
38) Carbon Tetrachloride	5.67	117	26598	3.66	ug/l #	16
41) Methacrylonitrile	5.08	41	291	Below Cal	#	87
74) N-amyl acetate	6.49	43	268	Below Cal	#	77
75) 1,1,2,2-Tetrachloroethane	11.27	83	162	Below Cal	#	92
76) 1,2,3-Trichloropropane	11.14	75	145940	28.38	ug/l #	33
79) 2-Chlorotoluene	11.43	91	393	Below Cal		97
81) trans-1,4-Dichloro-2-buten	11.14	75	145940	68.20	ug/l #	10

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

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ALS Vial : 33 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

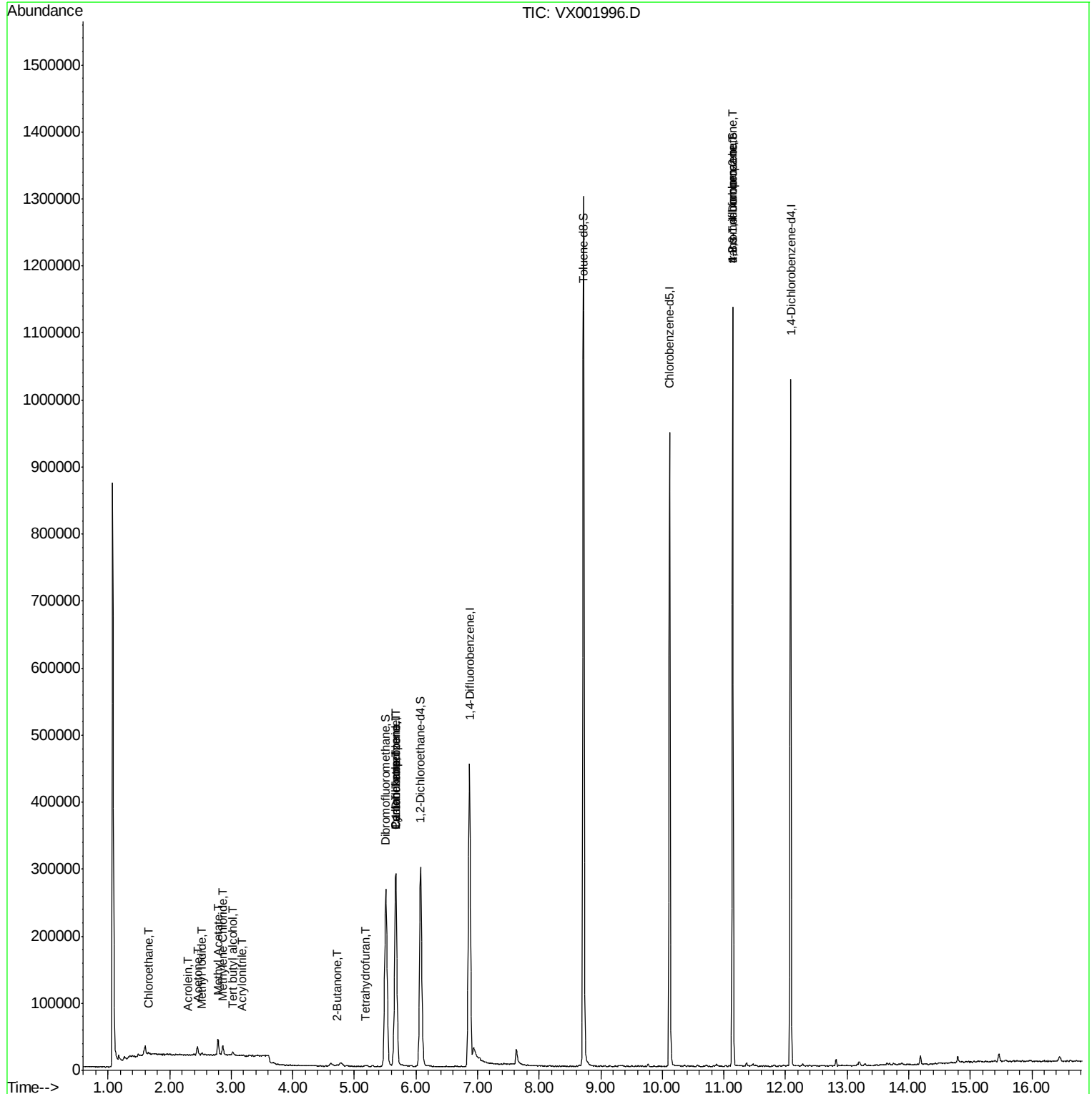
Quant Time: May 26 04:24:12 2018

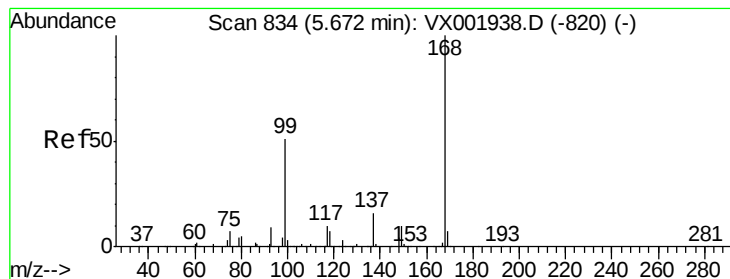
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M

Quant Title : SW846 8260

QLast Update : Thu May 24 13:09:03 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

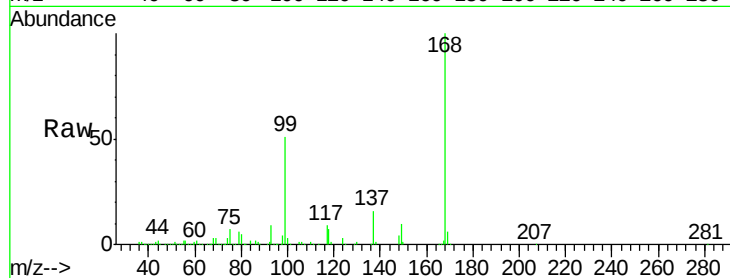
PB109661ZHE#04

Tgt Ion:168 Resp: 289895

Ion Ratio Lower Upper

168 100

99 51.3 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

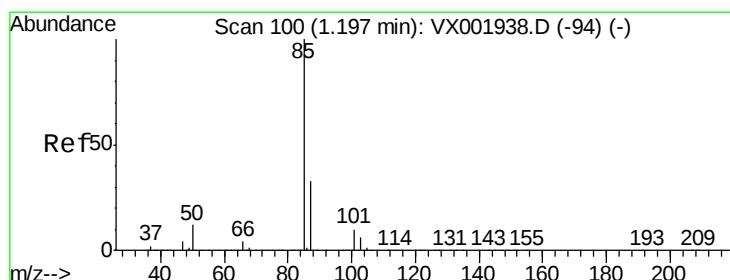
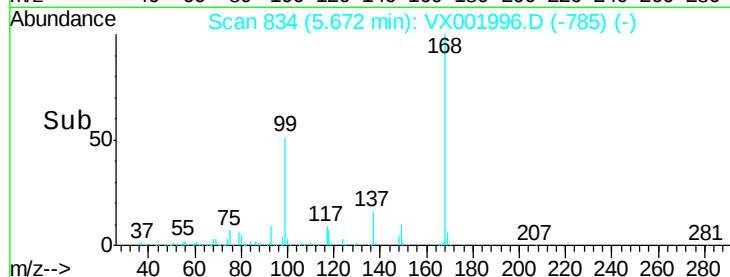
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX001996.D

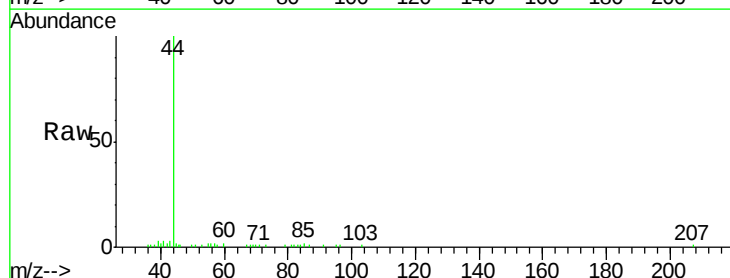
Acq: 26 May 2018 00:36

Tgt Ion: 85 Resp: 328

Ion Ratio Lower Upper

85 100

87 30.7 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

200

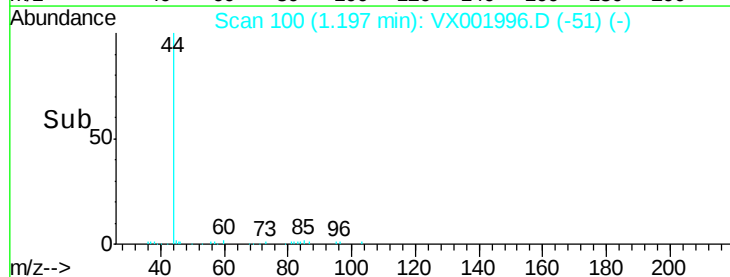
150

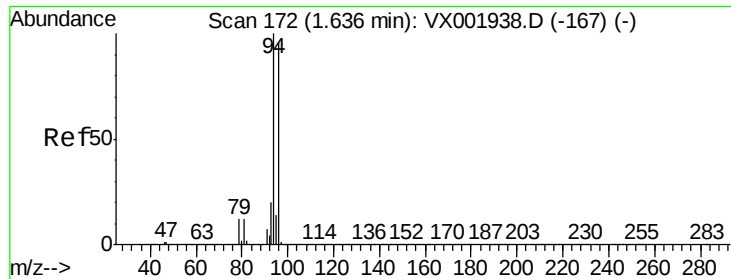
100

50

0

Time--> 1.16 1.18 1.20 1.22





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

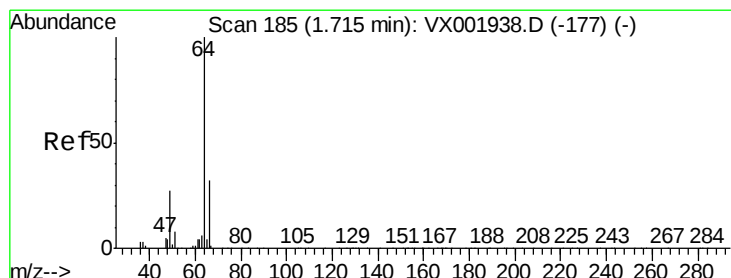
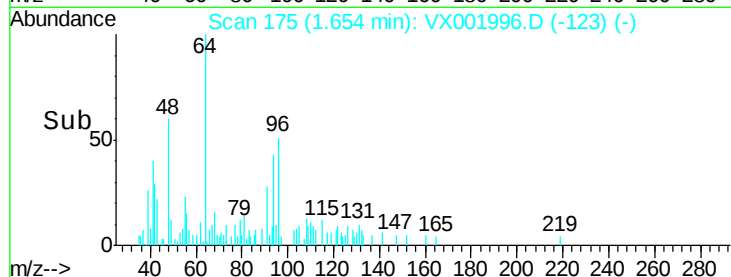
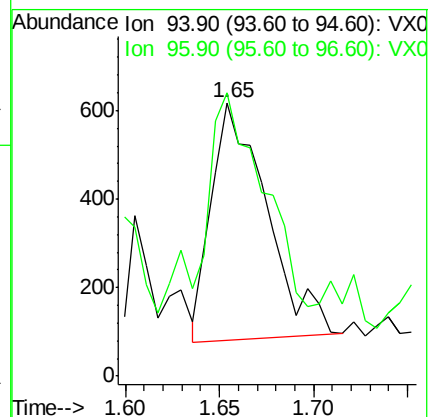
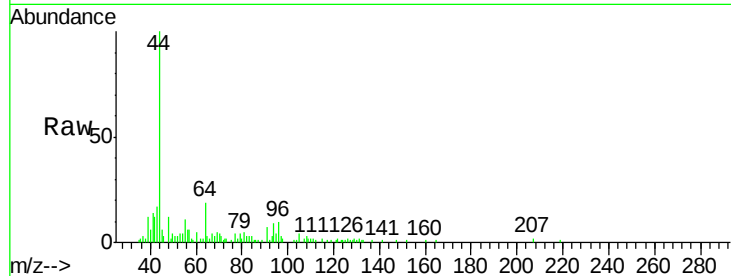
PB109661ZHE#04

Tgt Ion: 94 Resp: 1093

Ion Ratio Lower Upper

94 100

96 91.7 75.9 113.9



#6

Chloroethane

Concen: 2.51 ug/l

RT: 1.65 min Scan# 175

Delta R.T. -0.06 min

Lab File: VX001996.D

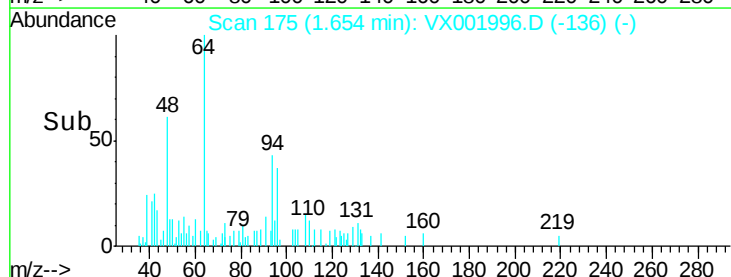
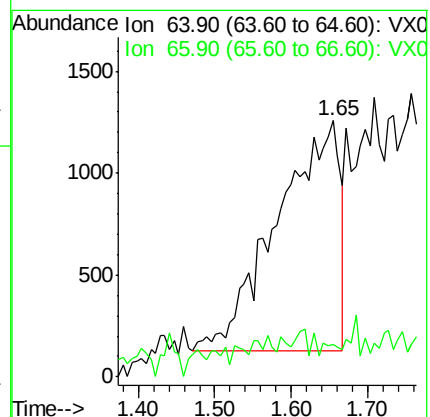
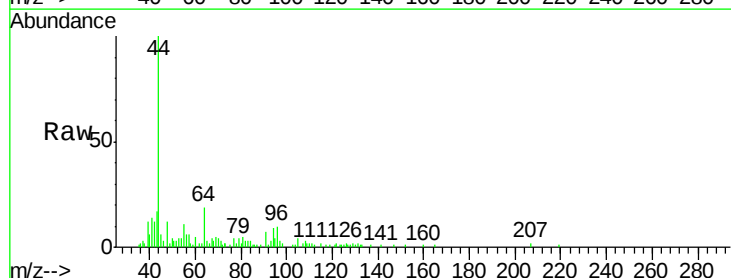
Acq: 26 May 2018 00:36

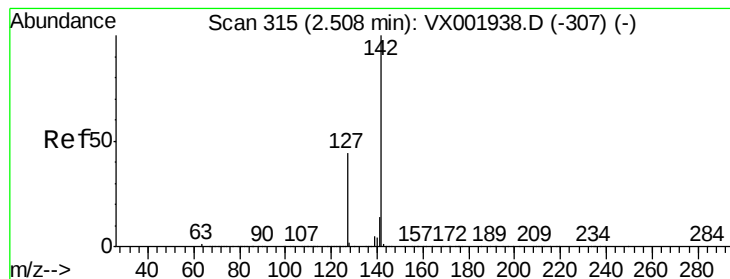
Tgt Ion: 64 Resp: 6380

Ion Ratio Lower Upper

64 100

66 4.3 25.6 38.4#





#10

Methyl Iodide

Concen: 0.48 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

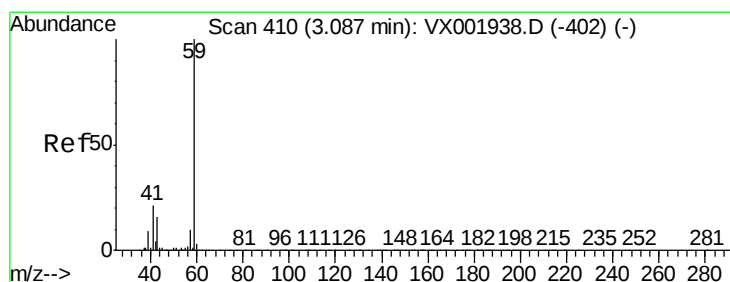
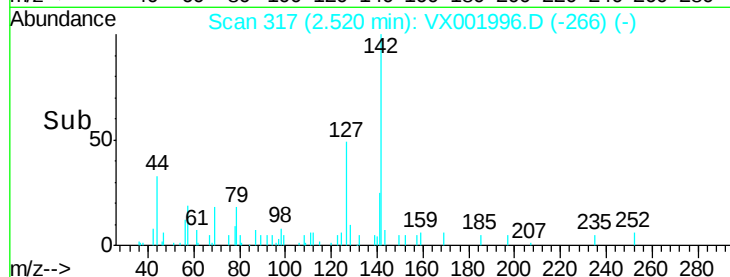
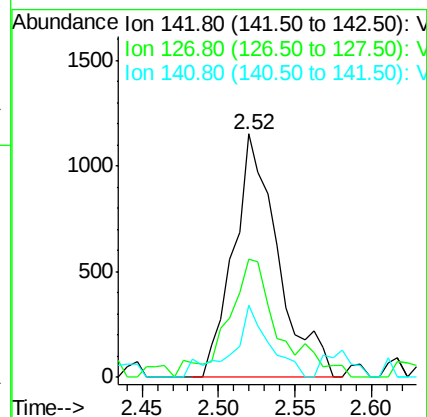
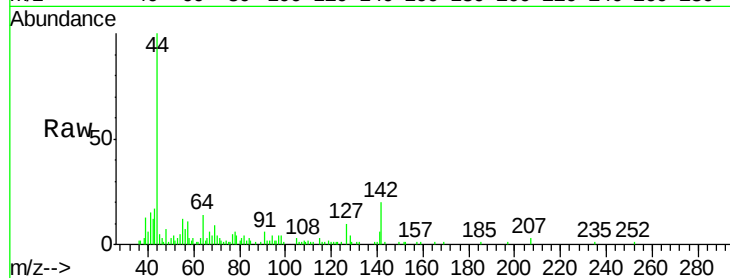
Tgt Ion:142 Resp: 2325

Ion Ratio Lower Upper

142 100

127 55.9 35.5 53.3#

141 24.6 11.3 16.9#



#11

Tert butyl alcohol

Concen: 2.92 ug/l

RT: 3.02 min Scan# 399

Delta R.T. -0.07 min

Lab File: VX001996.D

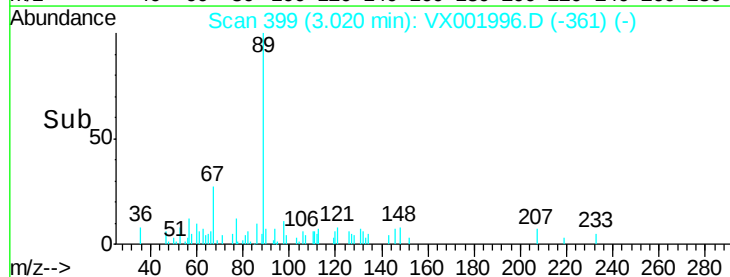
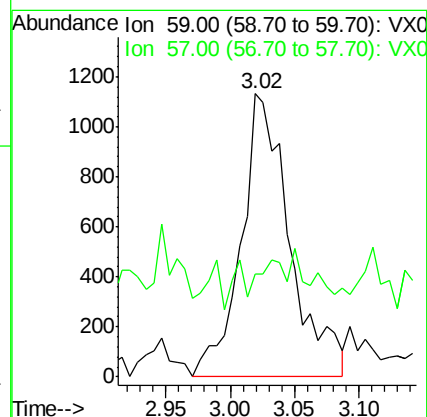
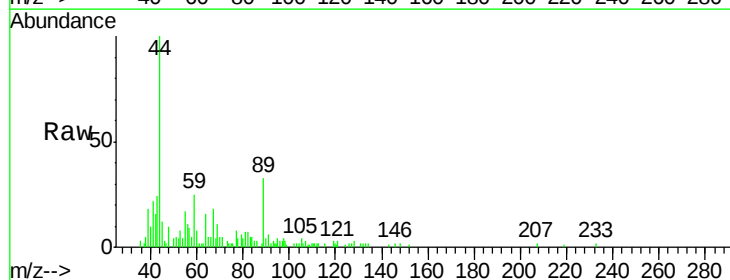
Acq: 26 May 2018 00:36

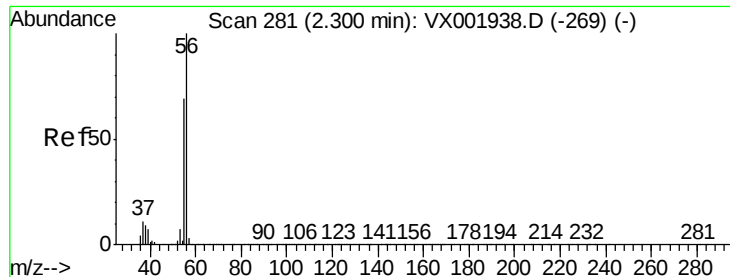
Tgt Ion: 59 Resp: 2967

Ion Ratio Lower Upper

59 100

57 6.5 8.9 13.3#





#13

Acrolein

Concen: 0.33 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

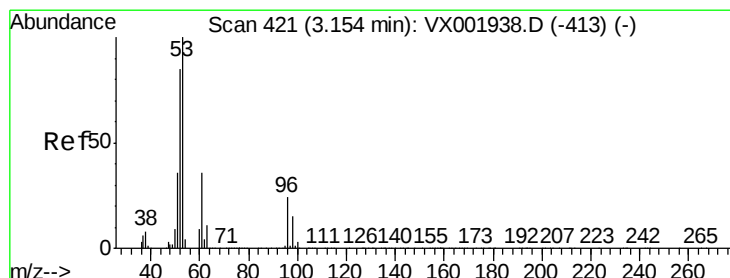
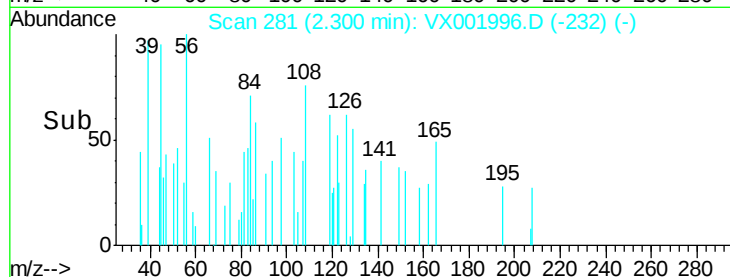
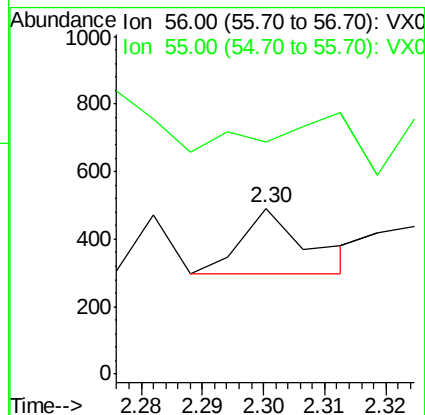
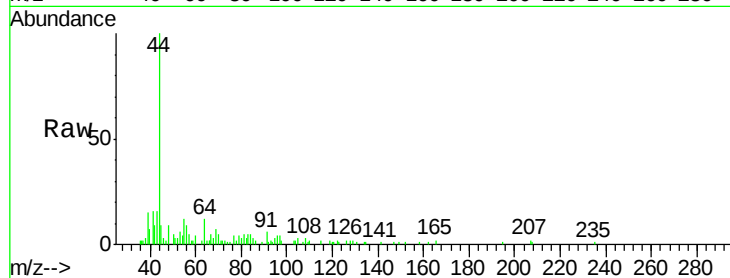
PB109661ZHE#04

Tgt Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 0.0 56.8 85.2#



#15

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

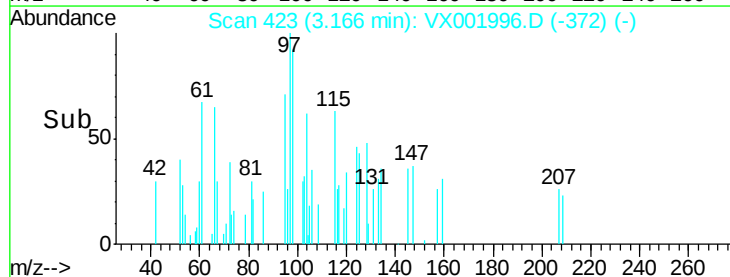
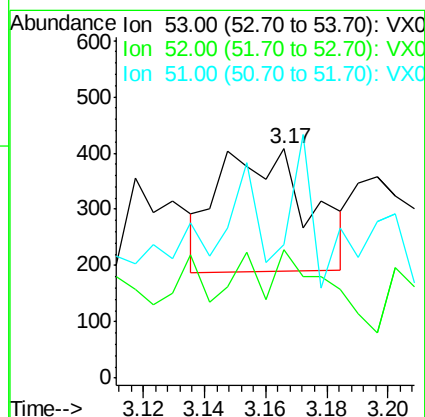
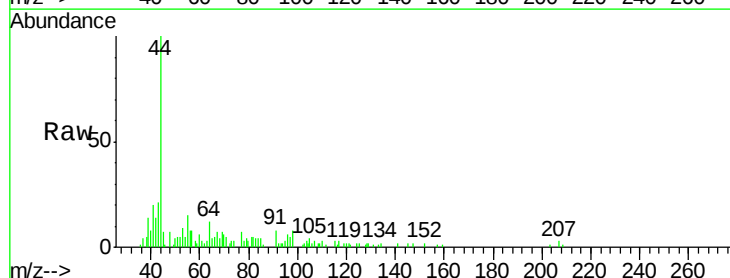
Tgt Ion: 53 Resp: 441

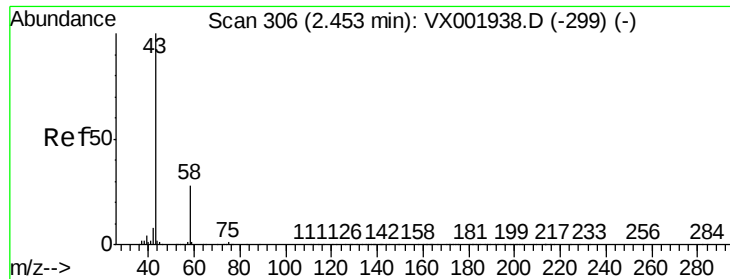
Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

51 17.7 29.3 43.9#

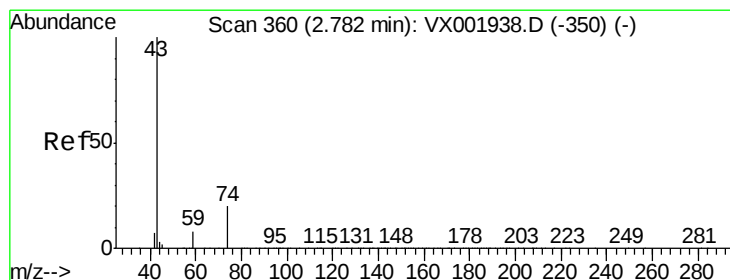
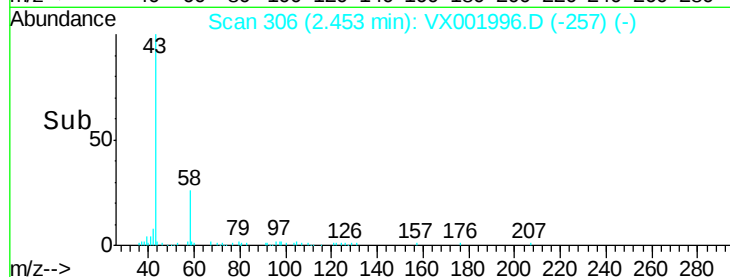
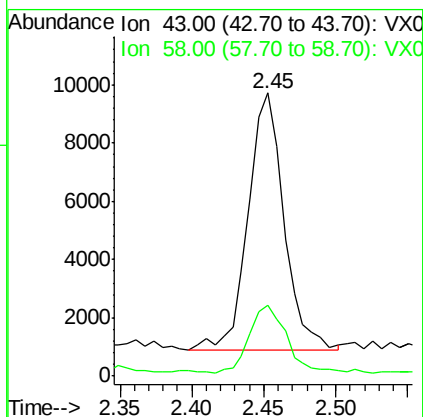
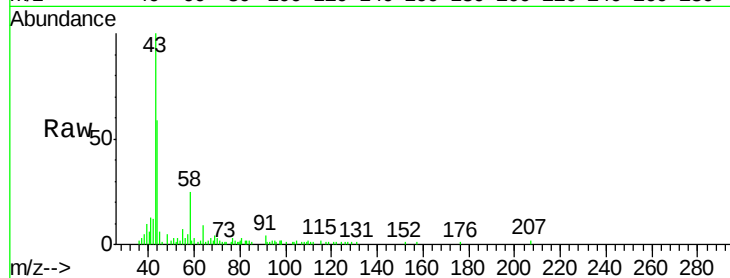




#16
Acetone
Concen: 7.57 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX001996.D
Acq: 26 May 2018 00:36

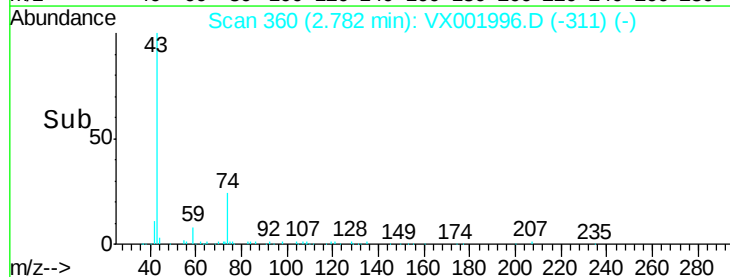
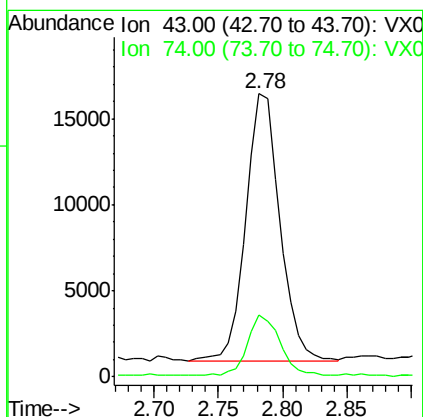
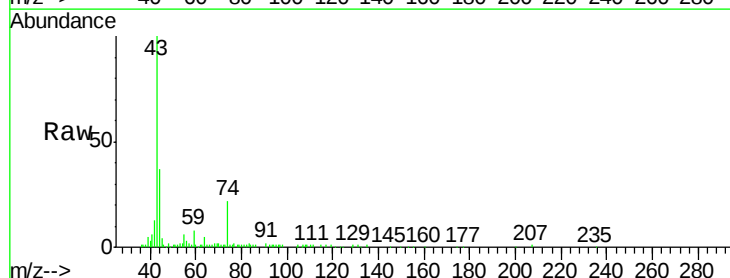
Instrument :
MSVOA_X
ClientSampleId :
PB109661ZHE#04

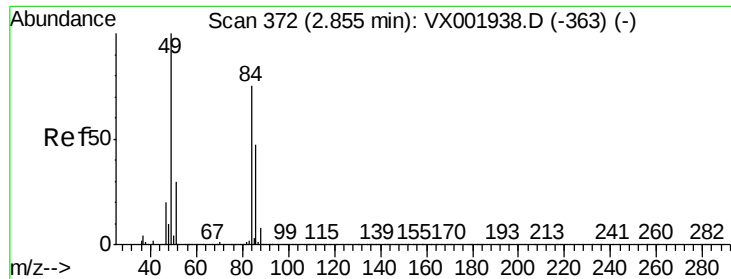
Tgt Ion: 43 Resp: 15139
Ion Ratio Lower Upper
43 100
58 25.6 22.3 33.5



#18
Methyl Acetate
Concen: 4.92 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX001996.D
Acq: 26 May 2018 00:36

Tgt Ion: 43 Resp: 28641
Ion Ratio Lower Upper
43 100
74 21.5 16.8 25.2





#20

Methylene Chloride

Concen: 0.33 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

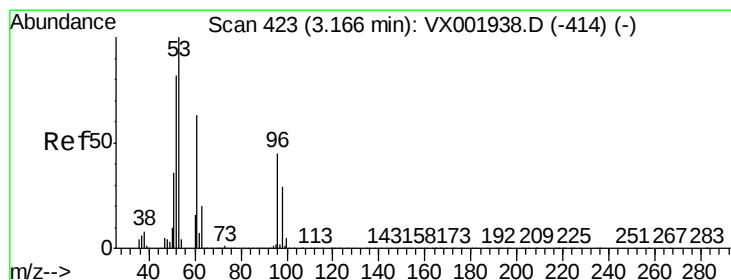
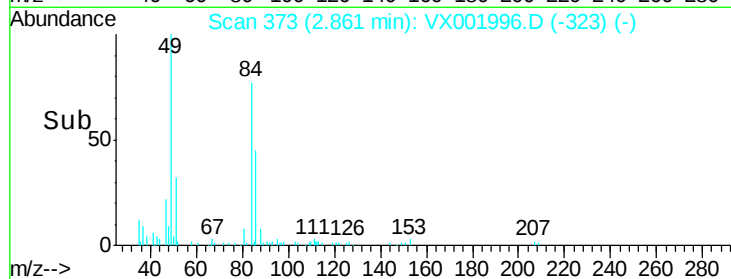
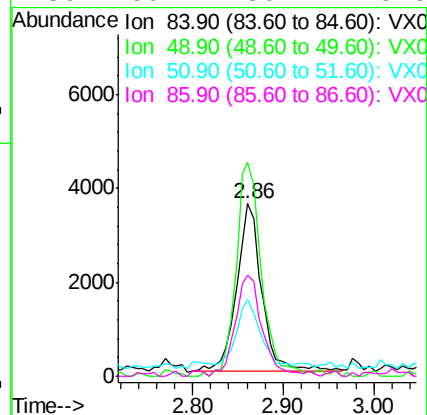
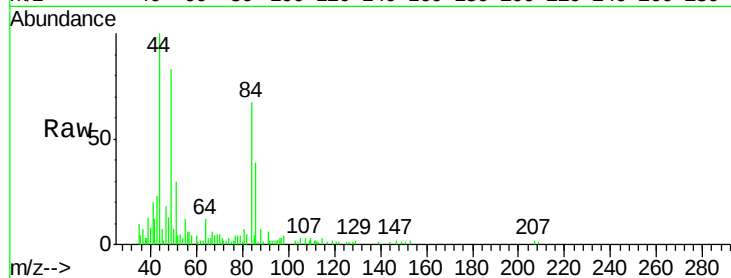
Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :
MSVOA_X
ClientSampleId :
PB109661ZHE#04

Tgt Ion: 84 Resp: 6875

Ion	Ratio	Lower	Upper
84	100		
49	127.4	107.2	160.8
51	39.1	32.4	48.6
86	60.4	50.4	75.6



#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.16 min Scan# 422

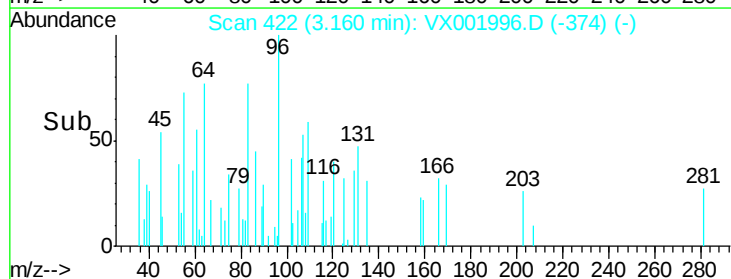
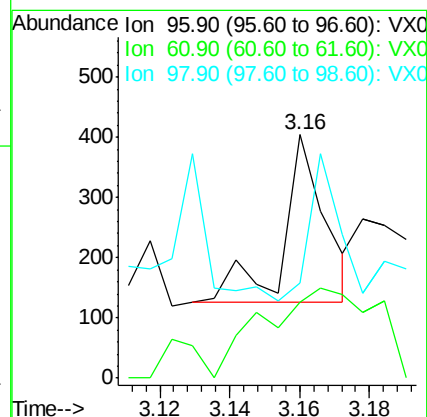
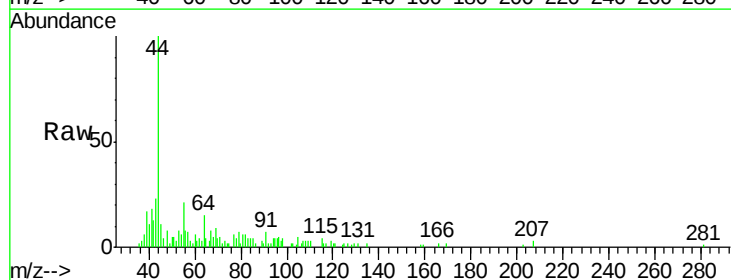
Delta R.T. -0.01 min

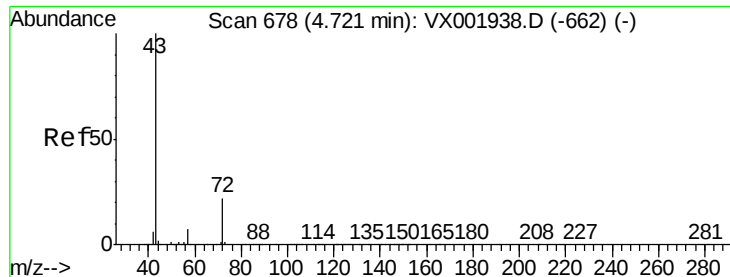
Lab File: VX001996.D

Acq: 26 May 2018 00:36

Tgt Ion: 96 Resp: 228

Ion	Ratio	Lower	Upper
96	100		
61	26.4	113.3	169.9#
98	0.0	51.7	77.5#





#25

2-Butanone

Concen: 0.99 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

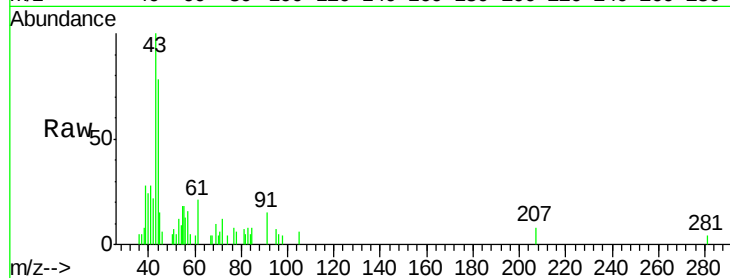
PB109661ZHE#04

Tgt Ion: 43 Resp: 3644

Ion Ratio Lower Upper

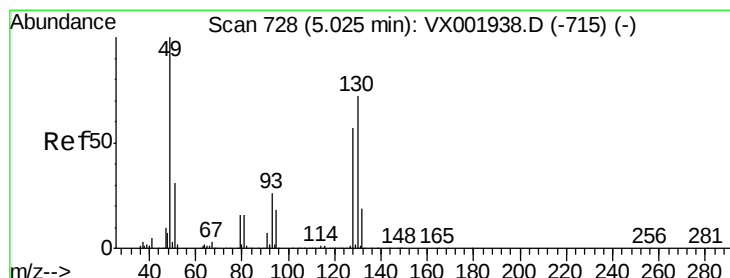
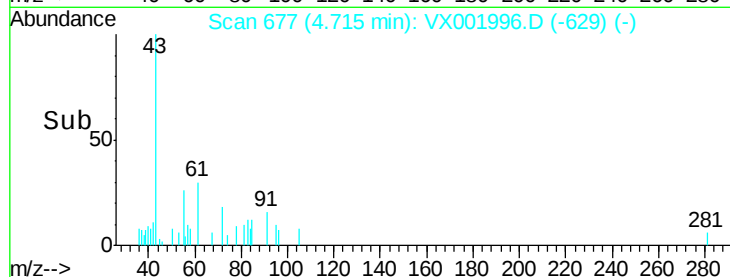
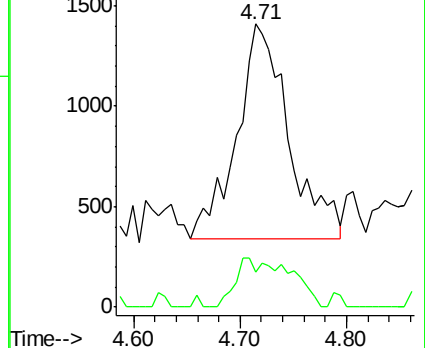
43 100

72 16.1 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

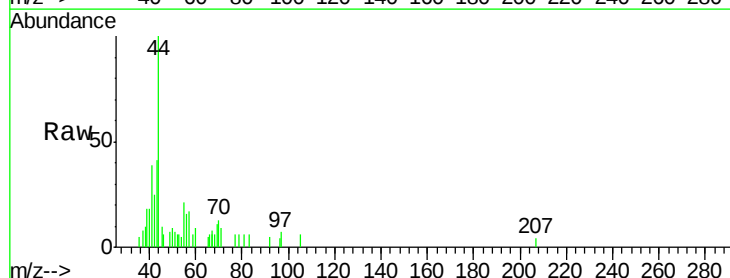
Tgt Ion: 49 Resp: 75

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

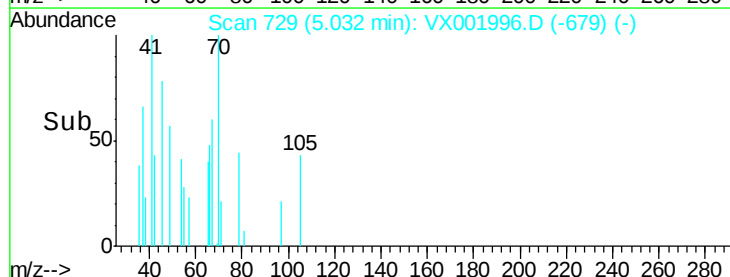
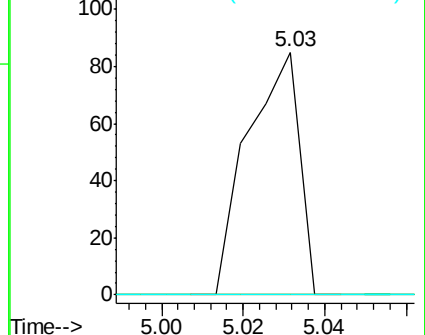
130 0.0 59.4 89.2#

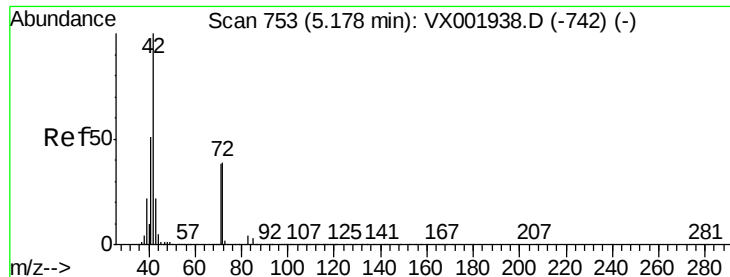


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.67 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

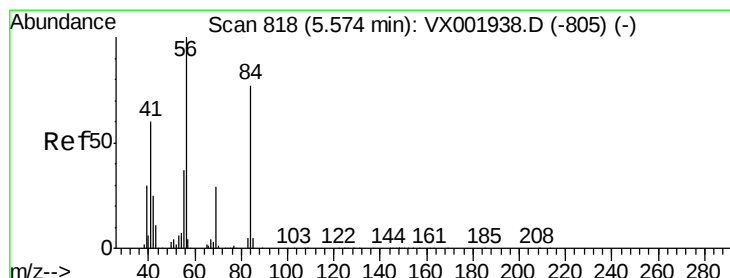
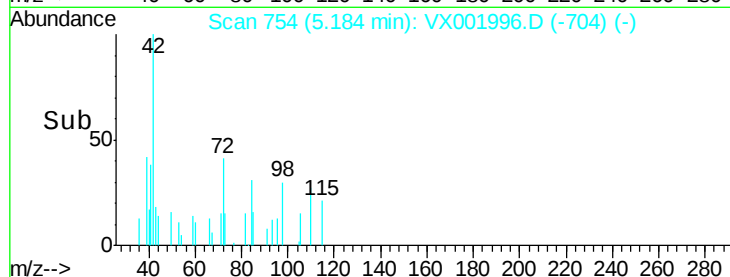
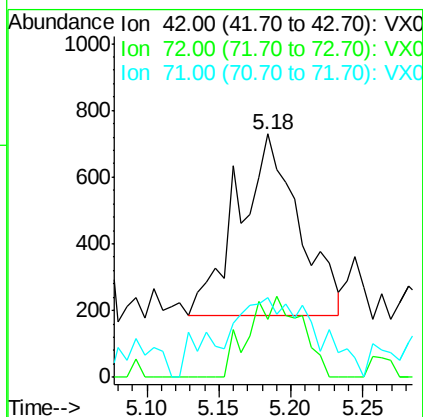
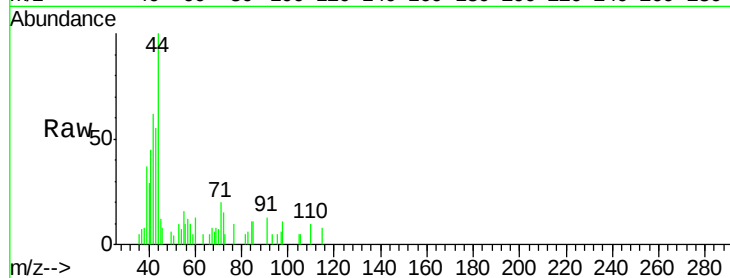
Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

Tgt Ion:	42	Resp:	1596
Ion	Ratio	Lower	Upper
42	100		
72	38.7	31.4	47.0
71	55.6	29.5	44.3#



#31

Cyclohexane

Concen: 0.87 ug/l

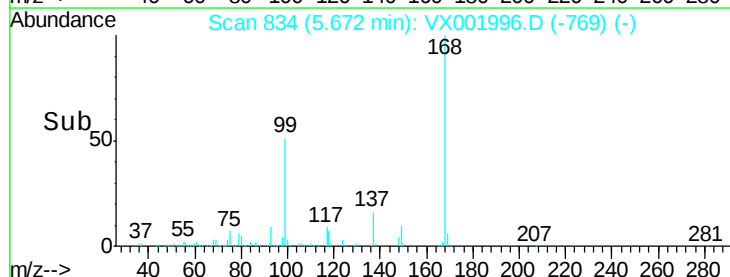
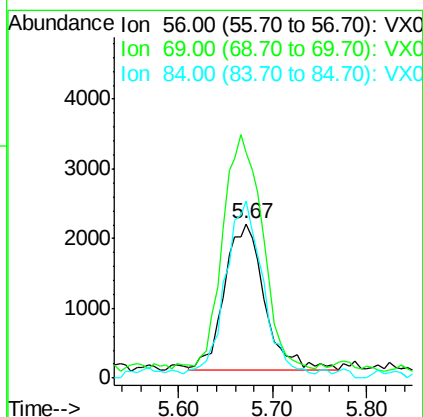
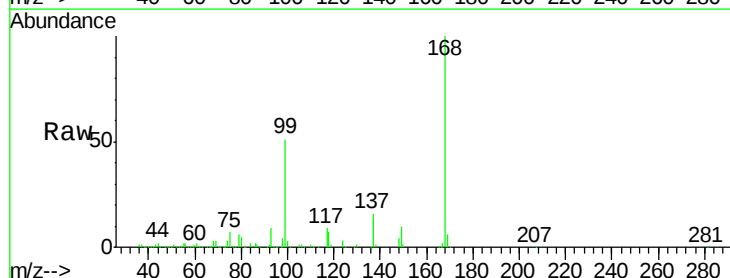
RT: 5.67 min Scan# 834

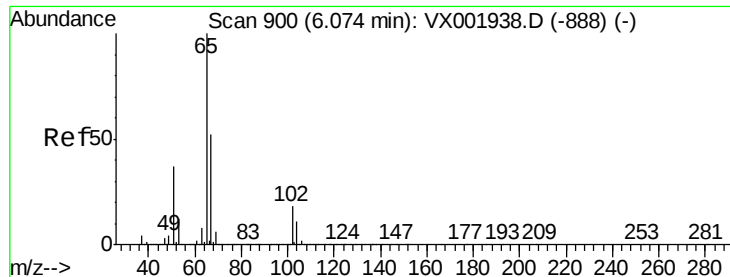
Delta R.T. 0.10 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Tgt Ion:	56	Resp:	6186
Ion	Ratio	Lower	Upper
56	100		
69	144.8	23.1	34.7#
84	115.8	62.0	93.0#





#33

1,2-Dichloroethane-d4

Concen: 55.11 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

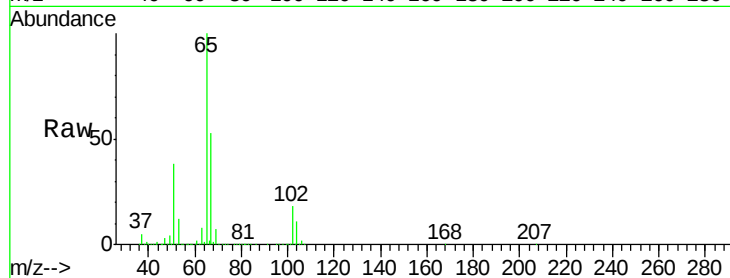
PB109661ZHE#04

Tgt Ion: 65 Resp: 285594

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

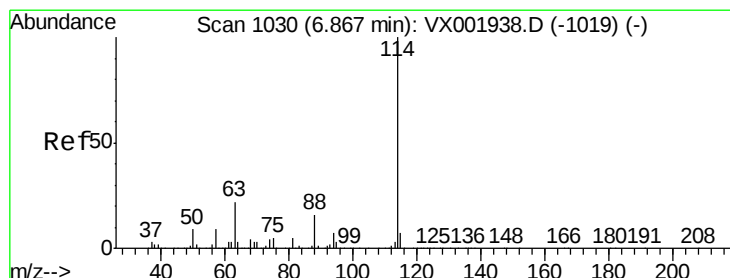
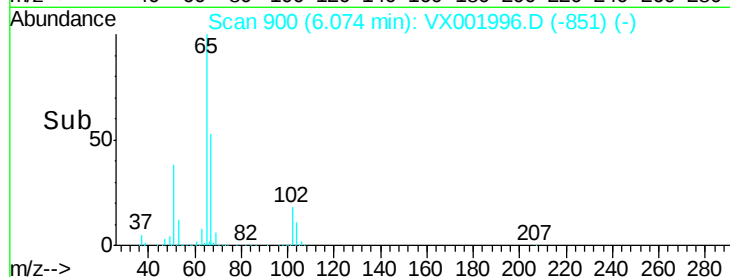
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

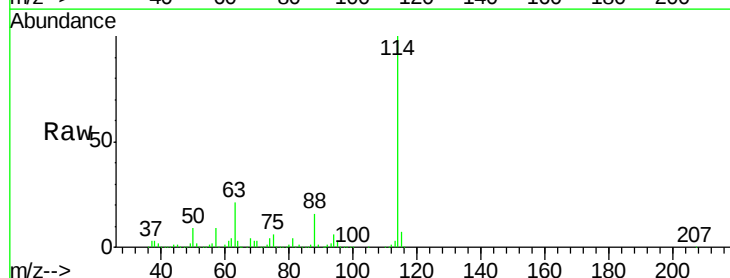
Tgt Ion: 114 Resp: 448401

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.2

88 15.5 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

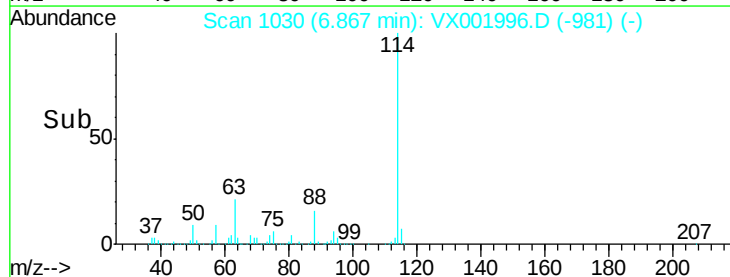
150000

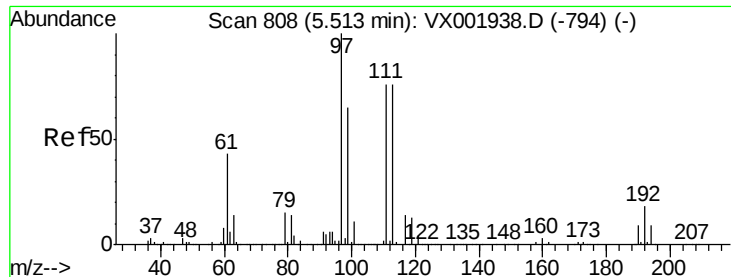
100000

50000

0

Time-->

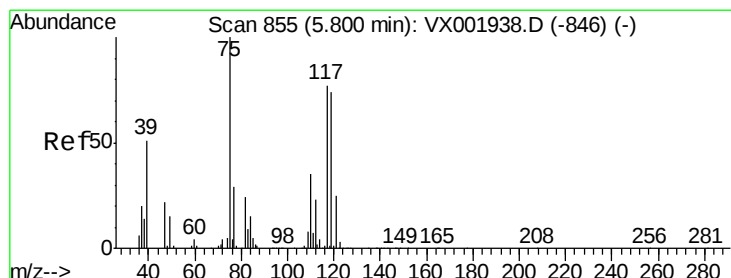
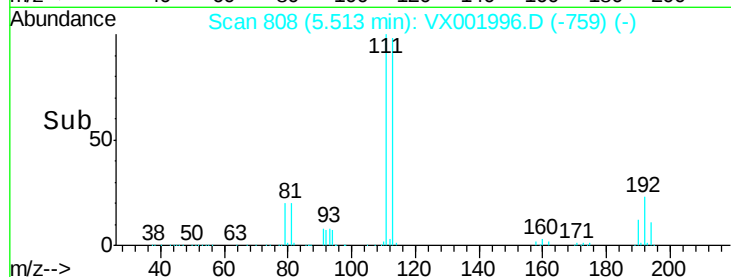
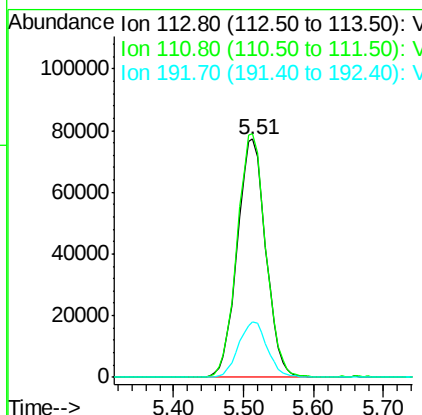
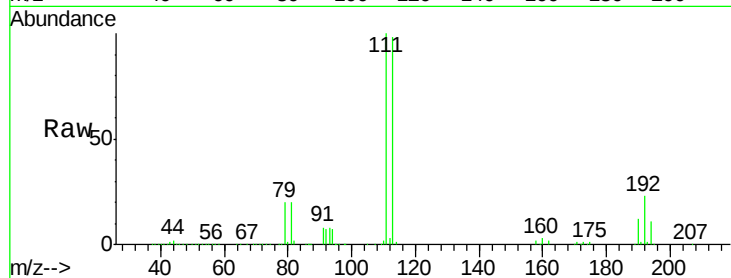




#35
 Dibromofluoromethane
 Concen: 48.94 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX001996.D
 Acq: 26 May 2018 00:36

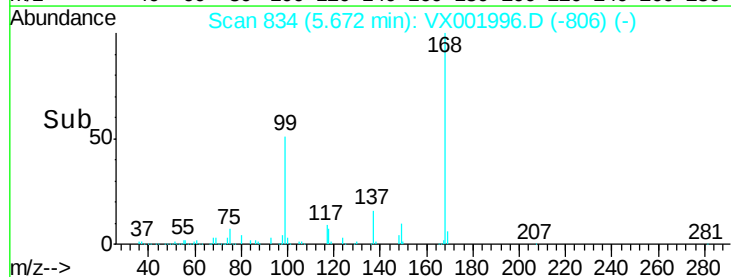
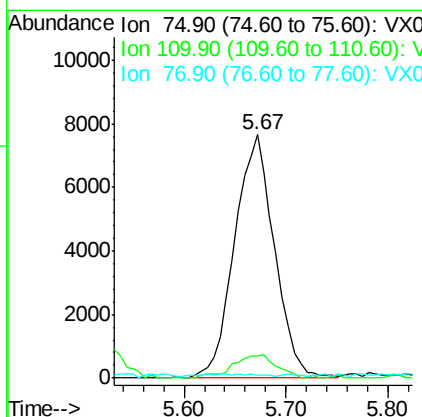
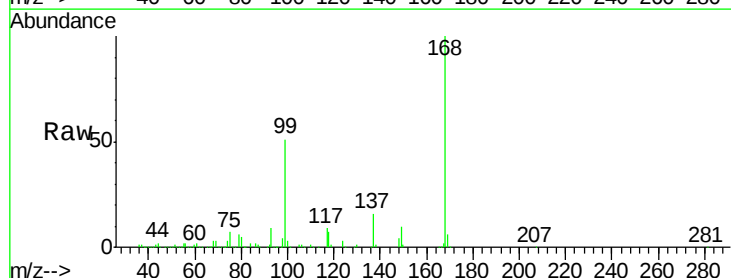
Instrument :
 MSVOA_X
 ClientSampleId :
 PB109661ZHE#04

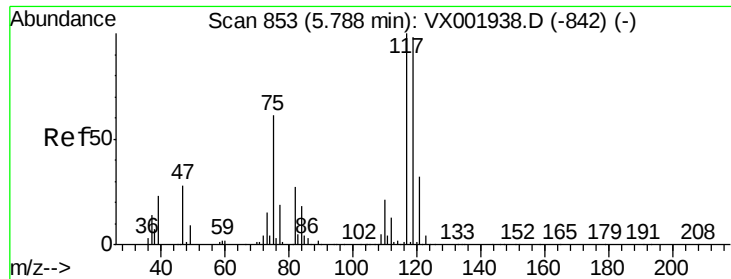
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.0	123.0
192	23.4	18.9	28.3



#36
 1,1-Dichloropropene
 Concen: 3.33 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX001996.D
 Acq: 26 May 2018 00:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.4	52.2#
77	0.0	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 3.66 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

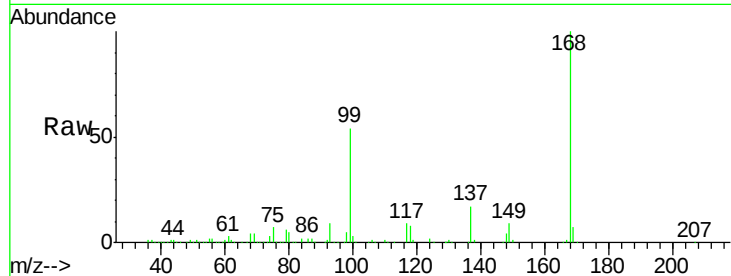
Tgt Ion:117 Resp: 26598

Ion Ratio Lower Upper

117 100

119 5.9 78.5 117.7#

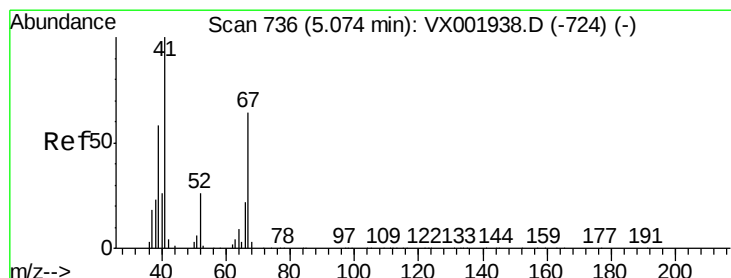
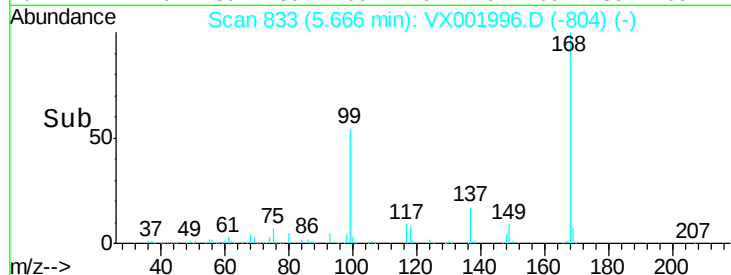
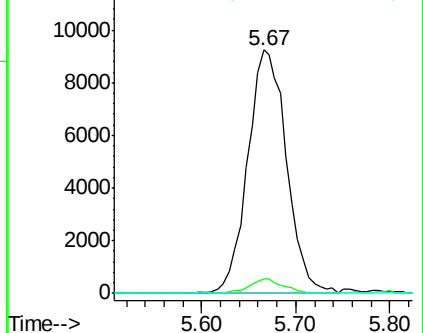
121 0.0 25.5 38.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.08 min Scan# 737

Delta R.T. 0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Tgt Ion: 41 Resp: 291

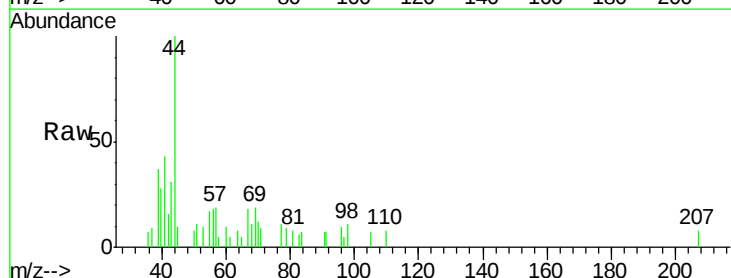
Ion Ratio Lower Upper

41 100

39 57.0 46.0 69.0

67 73.9 50.6 75.8

52 7.6 21.9 32.9#

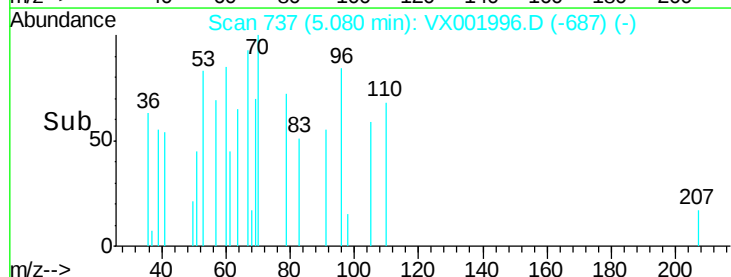
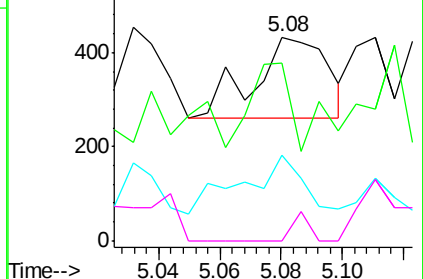


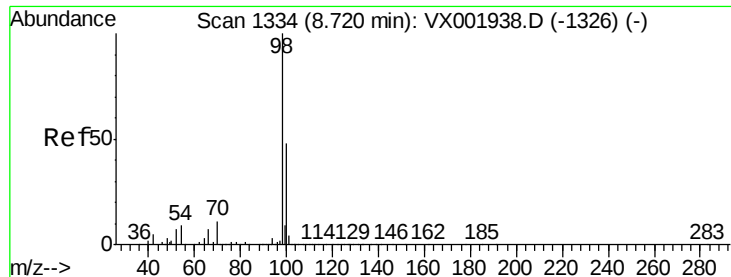
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 47.00 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

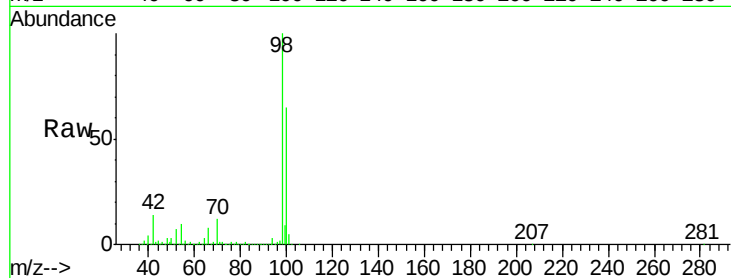
PB109661ZHE#04

Tgt Ion: 98 Resp: 762964

Ion Ratio Lower Upper

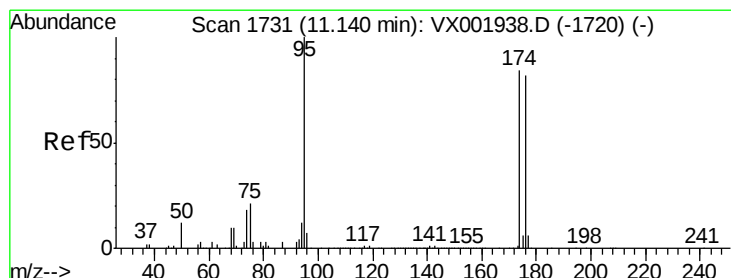
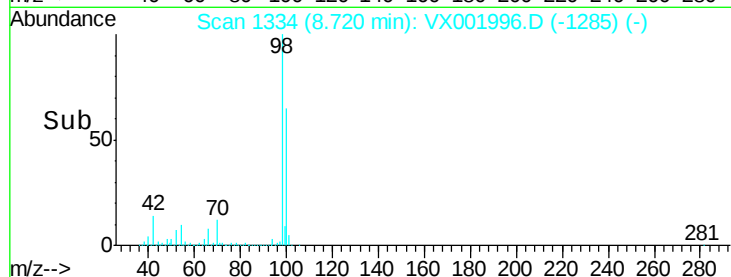
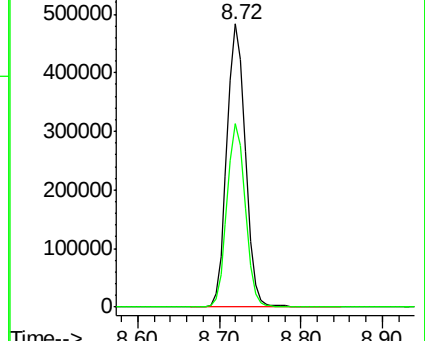
98 100

100 64.1 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.01 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

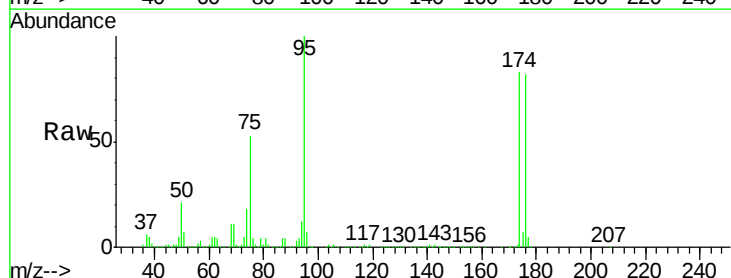
Tgt Ion: 95 Resp: 279529

Ion Ratio Lower Upper

95 100

174 91.1 0.0 178.8

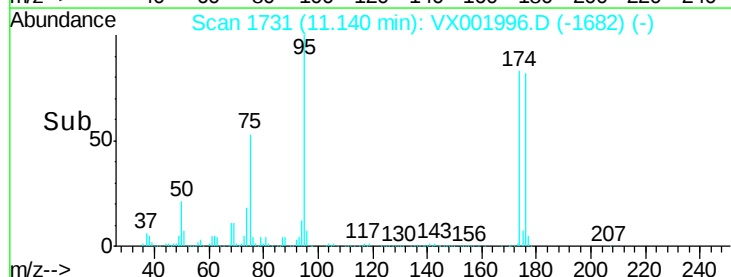
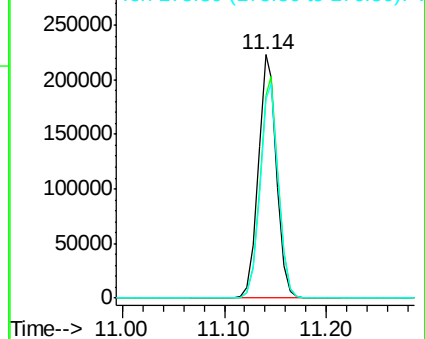
176 88.6 0.0 175.6

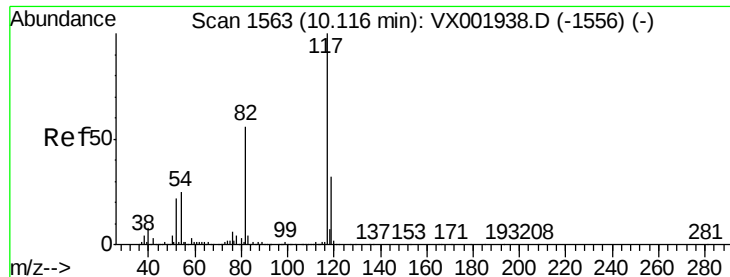


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

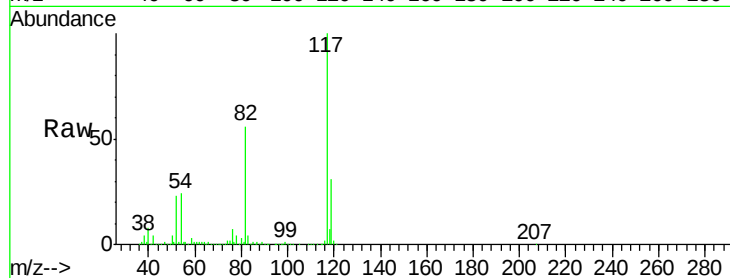
Tgt Ion:117 Resp: 408134

Ion Ratio Lower Upper

117 100

82 55.9 44.8 67.2

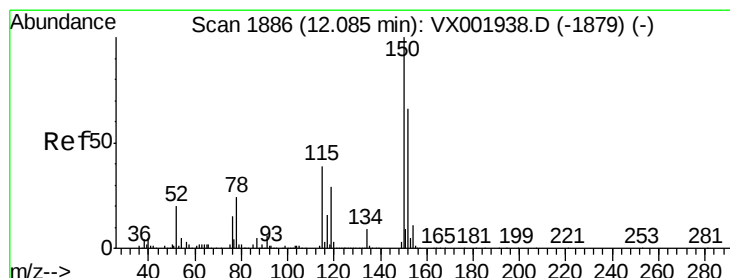
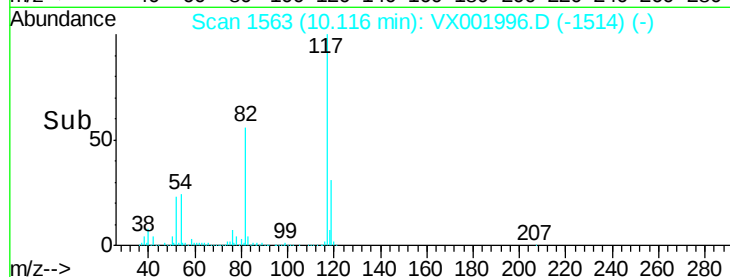
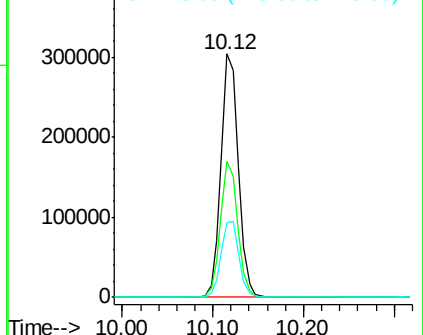
119 30.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

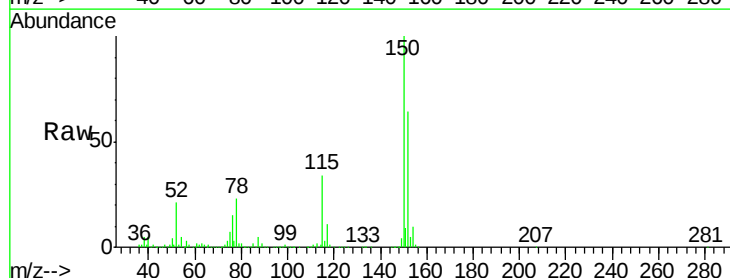
Tgt Ion:152 Resp: 214125

Ion Ratio Lower Upper

152 100

115 55.6 42.3 126.8

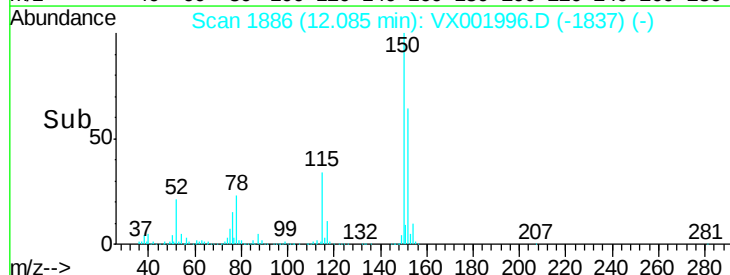
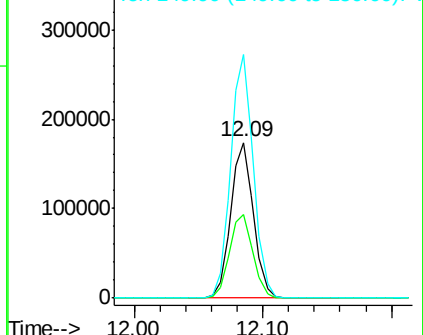
150 156.5 0.0 351.0

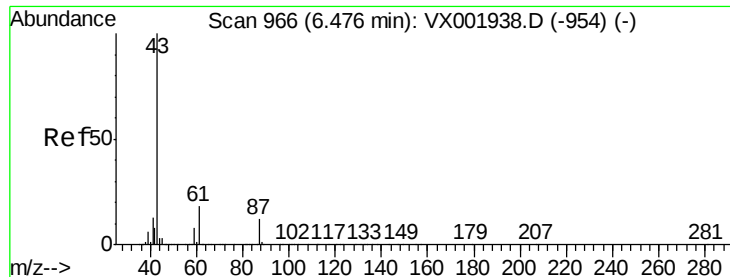


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

Tgt Ion: 43 Resp: 268

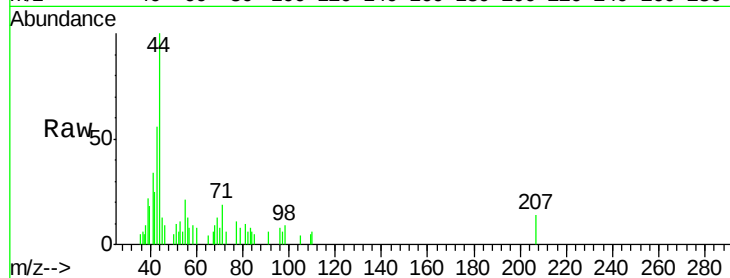
Ion Ratio Lower Upper

43 100

70 29.5 0.1 0.1#

55 74.3 0.1 0.1#

61 7.8 14.5 21.7#

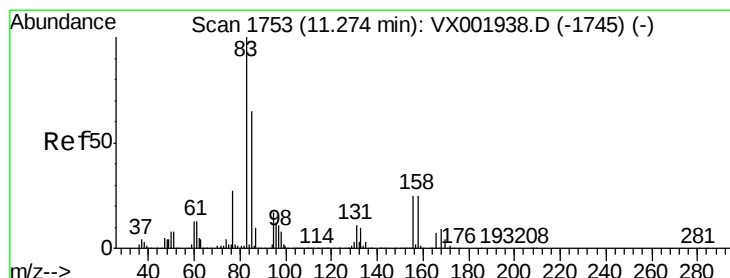
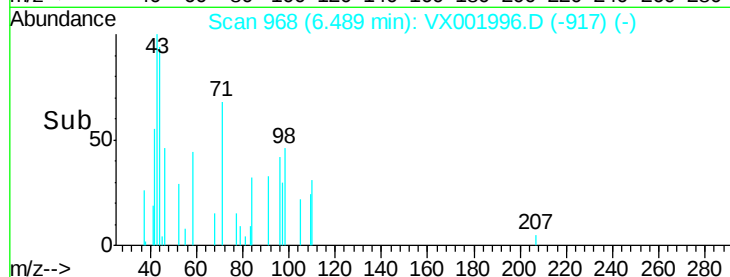
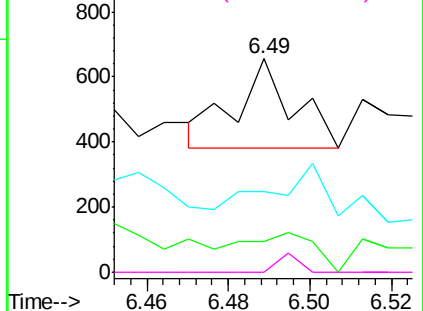


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.27 min Scan# 1752

Delta R.T. -0.01 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

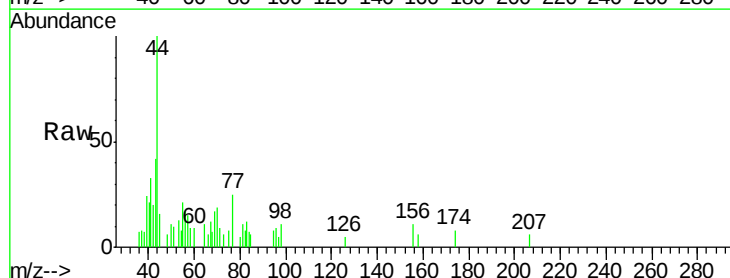
Tgt Ion: 83 Resp: 162

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

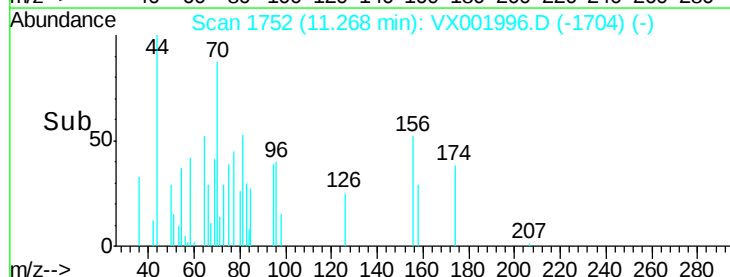
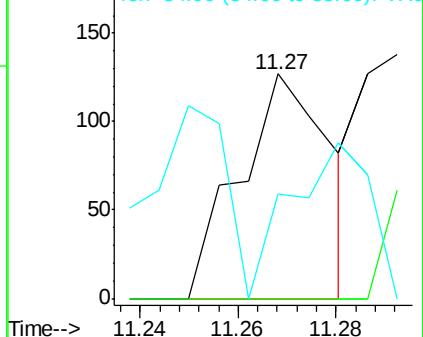
85 61.7 32.6 97.7

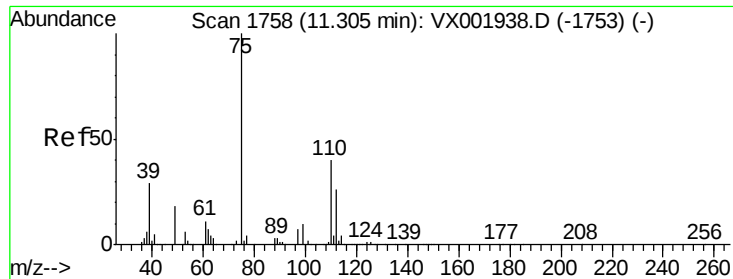


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

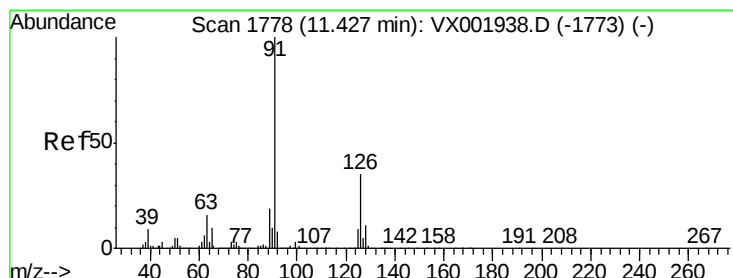
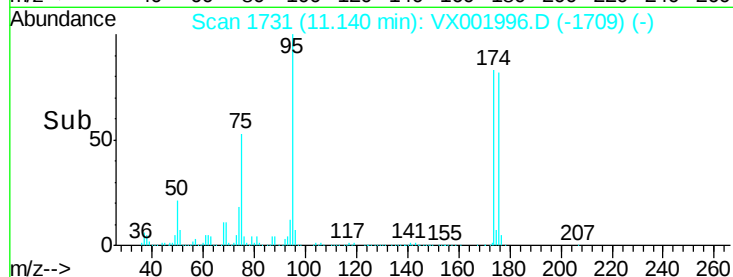
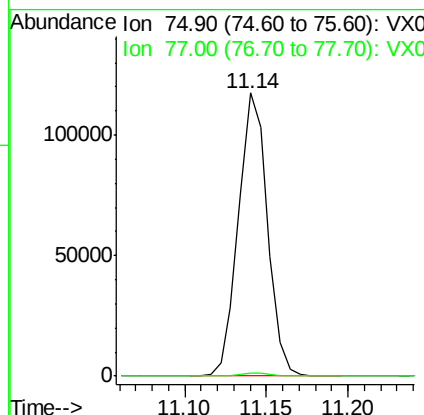
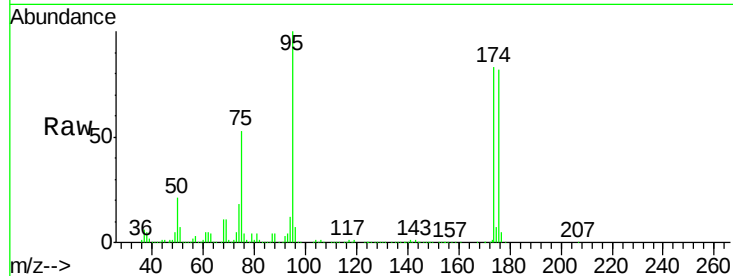




#76
 1,2,3-Trichloropropane
 Concen: 28.38 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX001996.D
 Acq: 26 May 2018 00:36

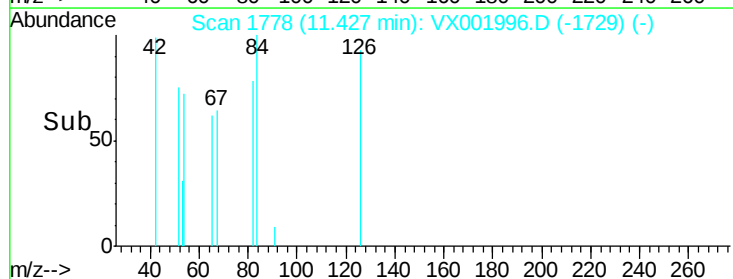
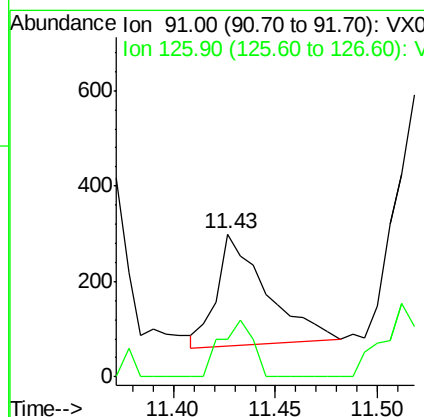
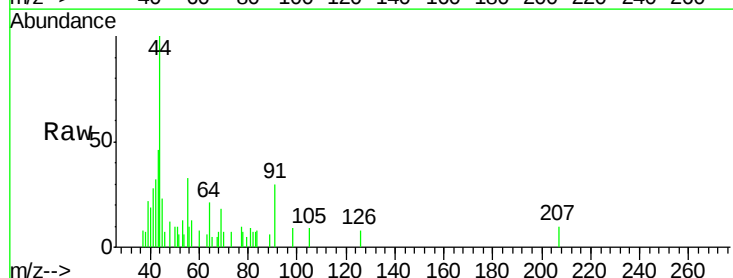
Instrument :
 MSVOA_X
 ClientSampleId :
 PB109661ZHE#04

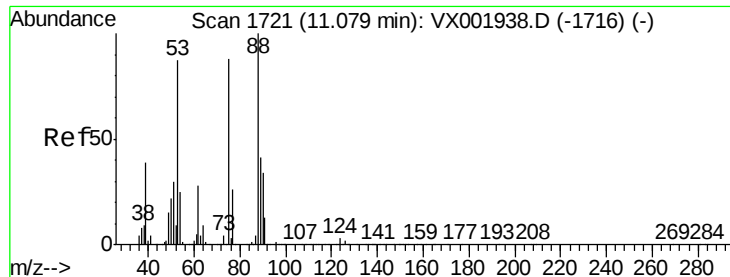
Tgt Ion: 75 Resp: 145940
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.43 min Scan# 1778
 Delta R.T. 0.00 min
 Lab File: VX001996.D
 Acq: 26 May 2018 00:36

Tgt Ion: 91 Resp: 393
 Ion Ratio Lower Upper
 91 100
 126 33.1 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 68.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001996.D

Acq: 26 May 2018 00:36

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#04

Tgt Ion: 75 Resp: 145940

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#

