

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005151.D
 Acq On : 09 Oct 2018 02:43
 Operator : JC/MD
 Sample : J5259-05DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-QBC1DL

Quant Time: Oct 09 06:02:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	198577	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	294425	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166717	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	155641	54.87	ug/l	0.00
Spiked Amount			Recovery	=	109.74%	
35) Dibromofluoromethane	5.50	113	132941	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	
50) Toluene-d8	8.72	98	430853	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	11.14	95	154833	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	

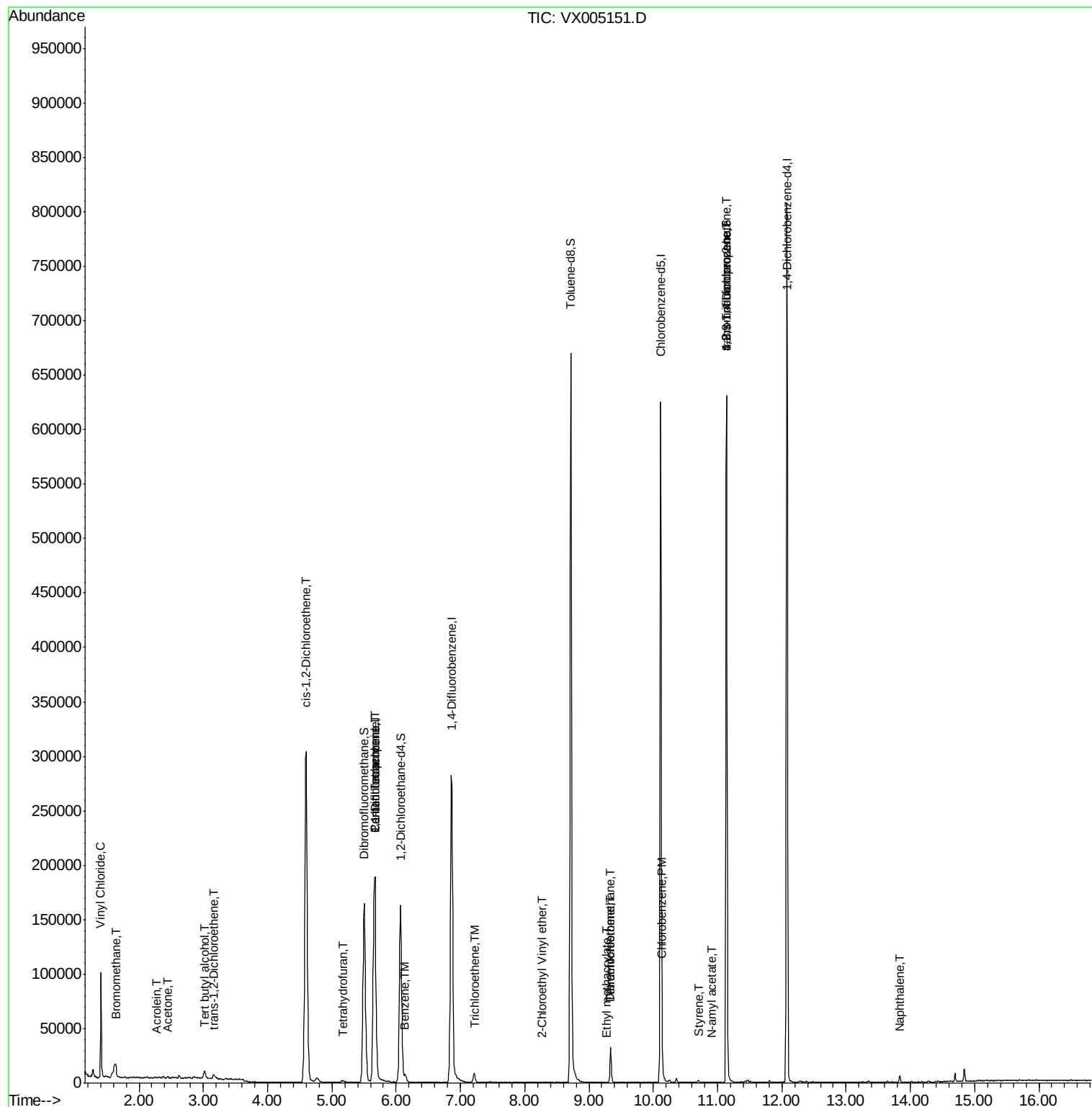
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	61642	20.008	ug/l	98
5) Bromomethane	1.64	94	593	0.325	ug/l #	67
6) Chloroethane	1.76	64	317	Below Cal	#	45
11) Tert butyl alcohol	3.02	59	4386	5.530	ug/l #	81
13) Acrolein	2.28	56	169	0.299	ug/l #	10
16) Acetone	2.45	43	1041	0.629	ug/l	99
20) Methylene Chloride	2.85	84	484	Below Cal	#	71
21) trans-1,2-Dichloroethene	3.16	96	1385	0.588	ug/l #	82
27) cis-1,2-Dichloroethene	4.59	96	186659	70.939	ug/l	97
29) Tetrahydrofuran	5.17	42	1512	0.997	ug/l #	78
36) 1,1-Dichloropropene	5.67	75	13459	3.953	ug/l #	47
38) Carbon Tetrachloride	5.67	117	17697	4.945	ug/l #	19
40) Benzene	6.13	78	6086	0.571	ug/l	94
44) Trichloroethene	7.21	130	3380	1.290	ug/l	93
56) Ethyl methacrylate	9.28	69	21	2.867	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.27	63	20	14.251	ug/l #	49
60) Dibromochloromethane	9.34	129	6143	2.394	ug/l #	10
64) Tetrachloroethene	9.34	164	7023	2.391	ug/l	94
65) Chlorobenzene	10.14	112	2639	0.345	ug/l #	84
70) Styrene	10.70	104	86	2.151	ug/l #	38
74) N-amyl acetate	10.91	43	161	1.775	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	77760	20.810	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	375	Below Cal		84
81) trans-1,4-Dichloro-2-buten	11.14	75	77760	56.487	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	912	Below Cal		96
95) Naphthalene	13.83	128	3596	0.975	ug/l	95

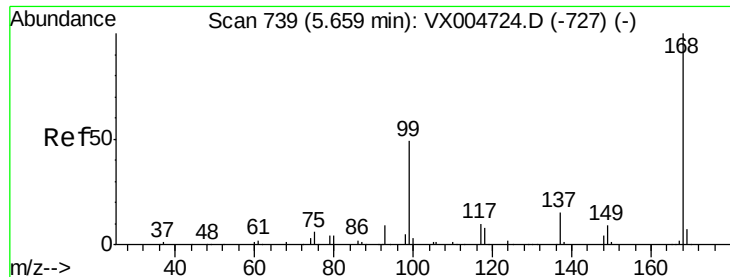
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampled :
FA18-QBC1DL

Quant Time: Oct 09 06:02:42 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

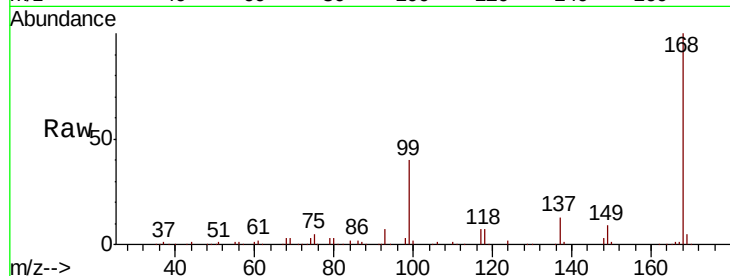
FA18-QBC1DL

Tot Ion:168 Resp: 198577

Ion Ratio Lower Upper

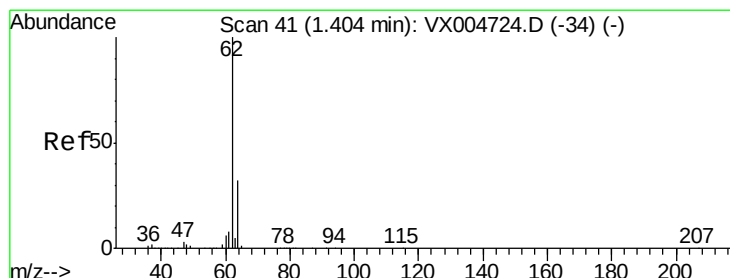
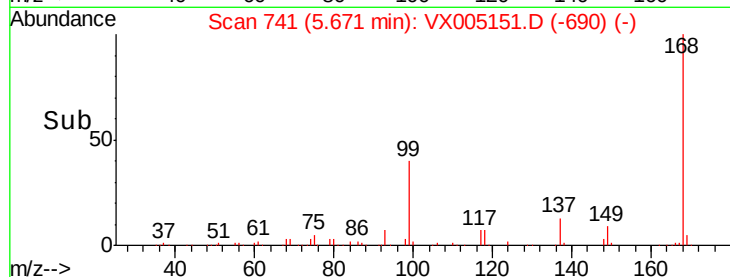
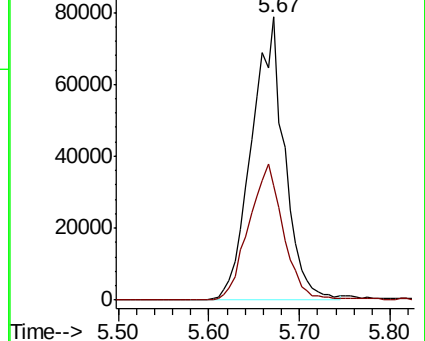
168 100

99 40.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 20.008 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX005151.D

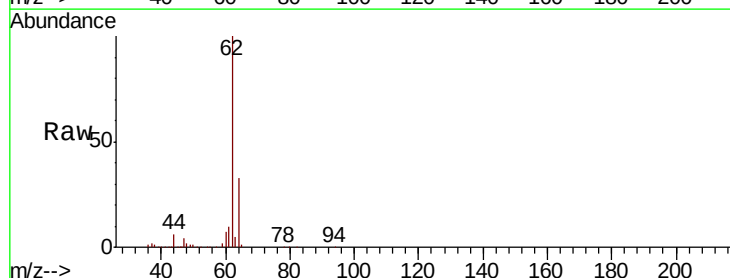
Acq: 09 Oct 2018 02:43

Tgt Ion: 62 Resp: 61642

Ion Ratio Lower Upper

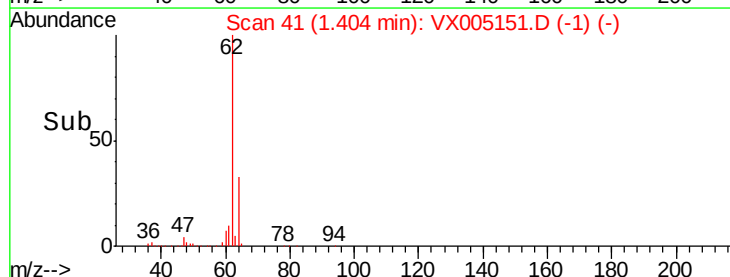
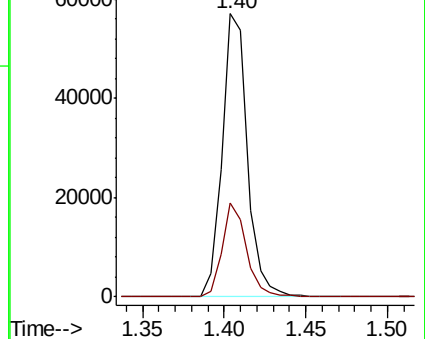
62 100

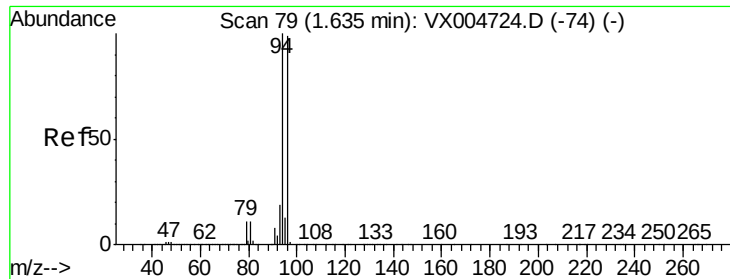
64 33.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.325 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

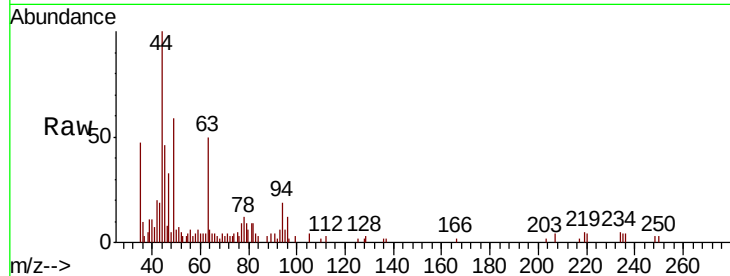
FA18-QBC1DL

Tot Ion: 94 Resp: 593

Ion Ratio Lower Upper

94 100

96 67.0 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

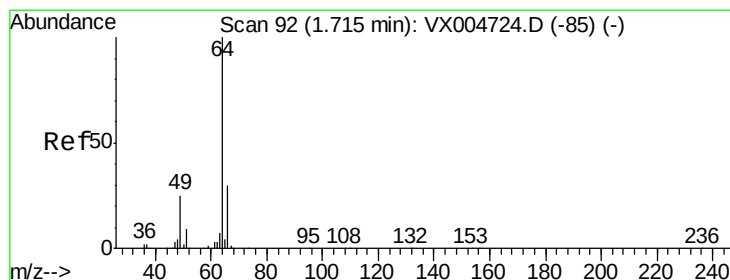
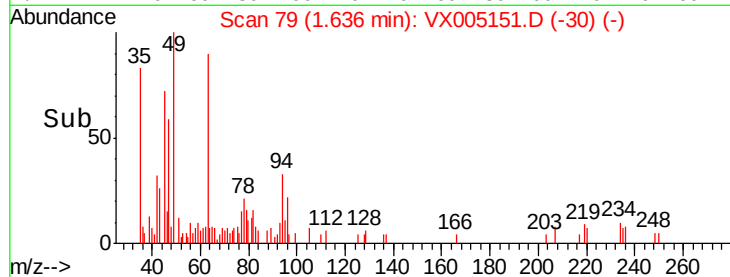
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX005151.D

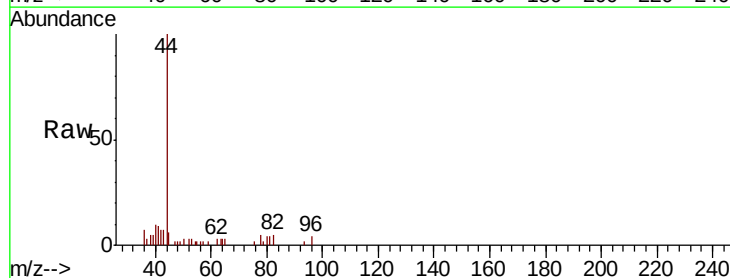
Acq: 09 Oct 2018 02:43

Tgt Ion: 64 Resp: 317

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

250

200

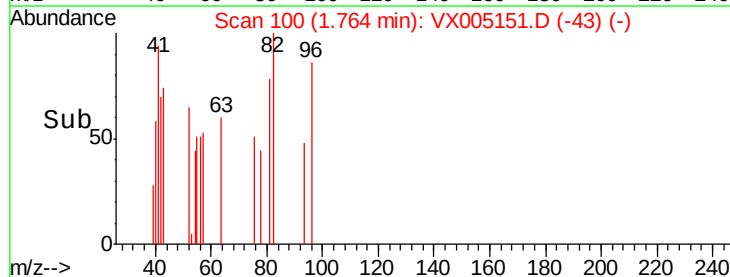
150

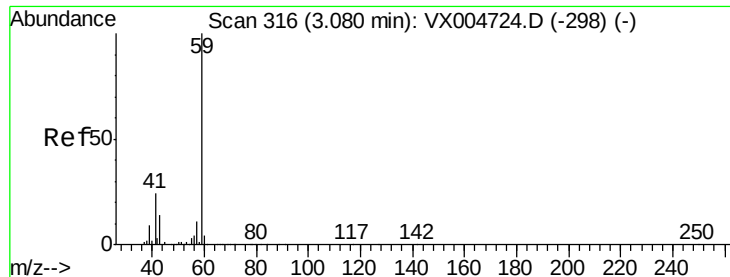
100

50

0

Time-->

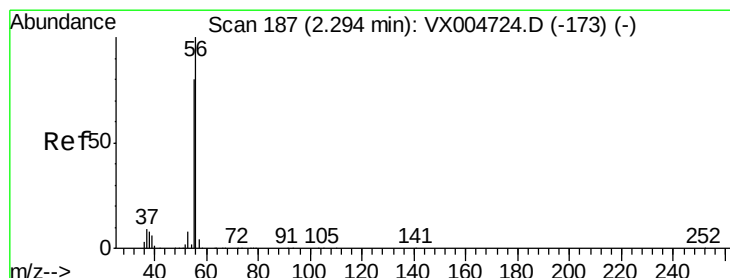
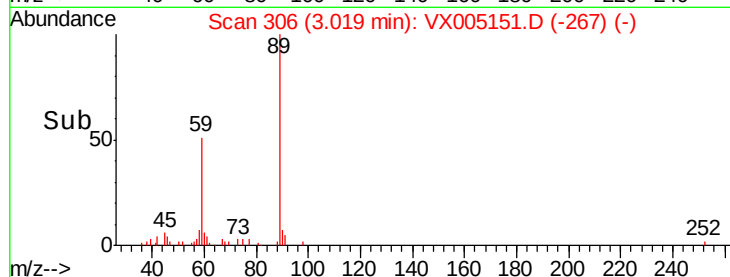
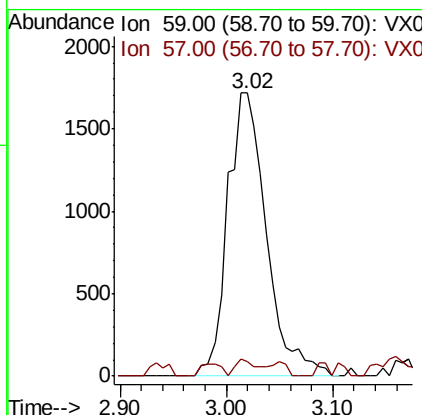
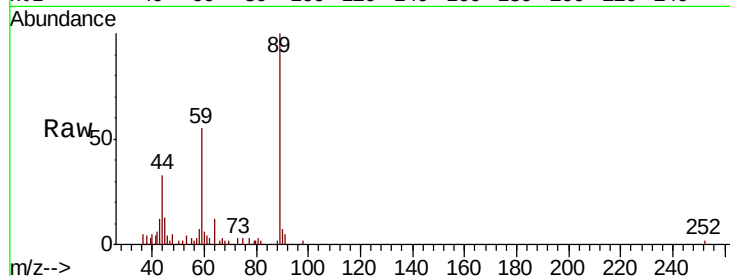




#11
Tert butyl alcohol
Concen: 5.530 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

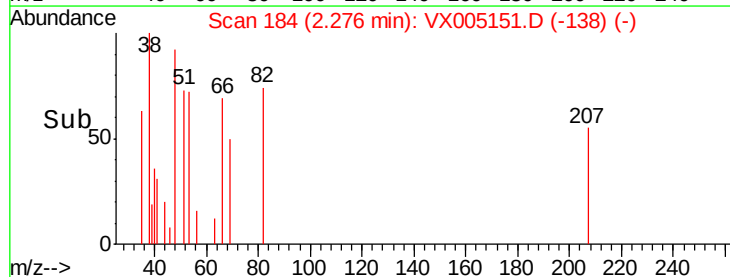
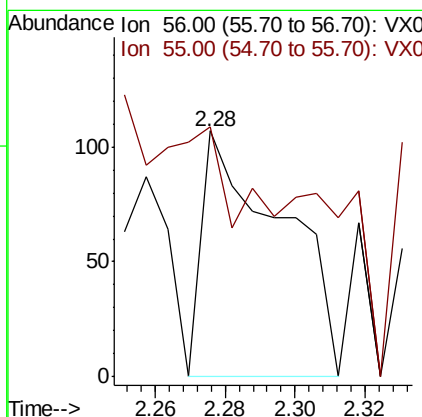
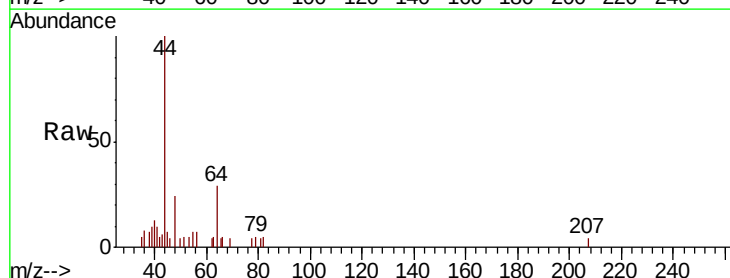
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC1DL

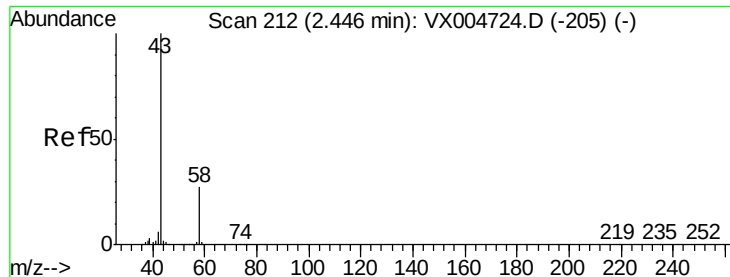
Tot Ion: 59 Resp: 4386
Ion Ratio Lower Upper
59 100
57 3.6 8.6 12.8#



#13
Acrolein
Concen: 0.299 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.02 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion: 56 Resp: 169
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#





#16

Acetone

Concen: 0.629 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

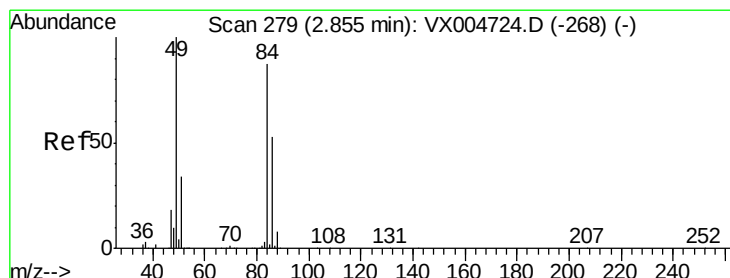
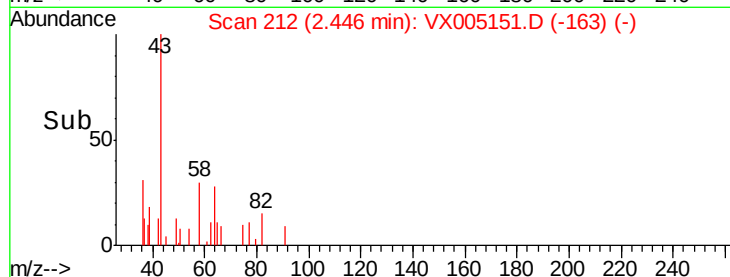
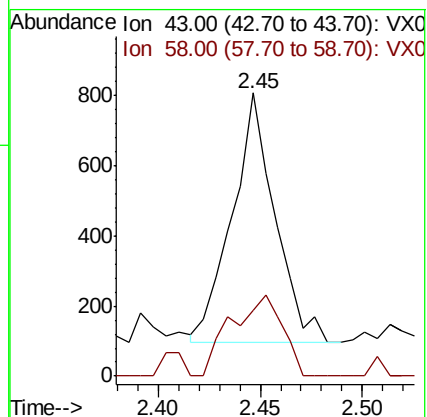
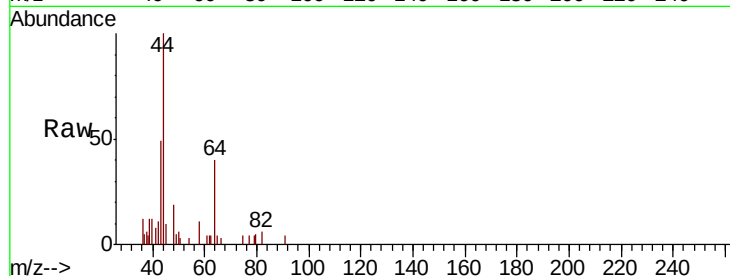
FA18-QBC1DL

Tot Ion: 43 Resp: 1041

Ion Ratio Lower Upper

43 100

58 26.5 21.8 32.6



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Tgt Ion: 84 Resp: 484

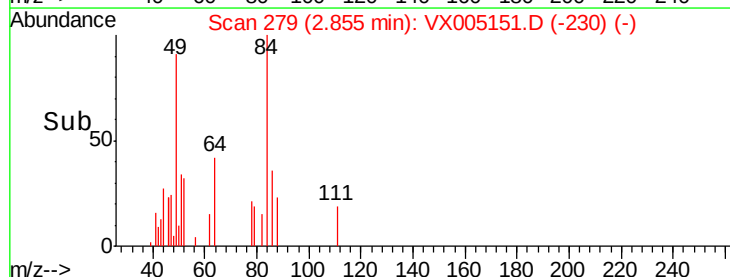
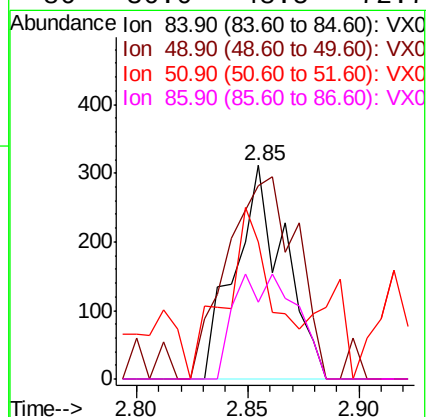
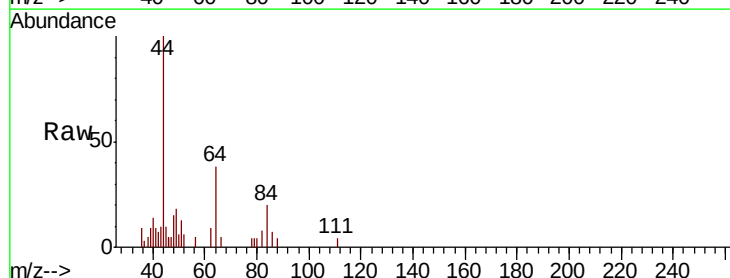
Ion Ratio Lower Upper

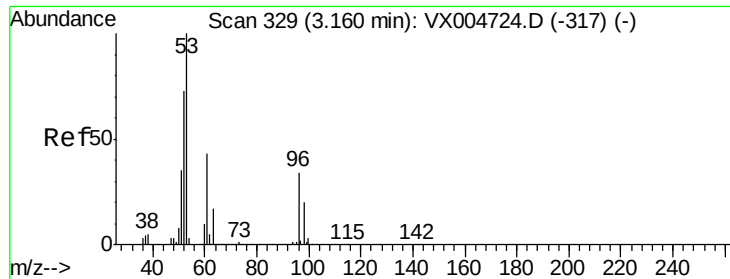
84 100

49 90.7 92.3 138.5#

51 64.0 31.8 47.6#

86 36.0 48.5 72.7#

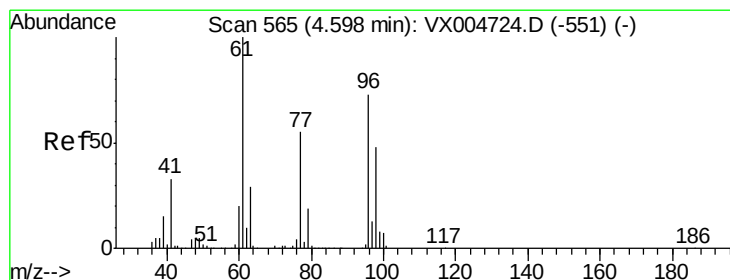
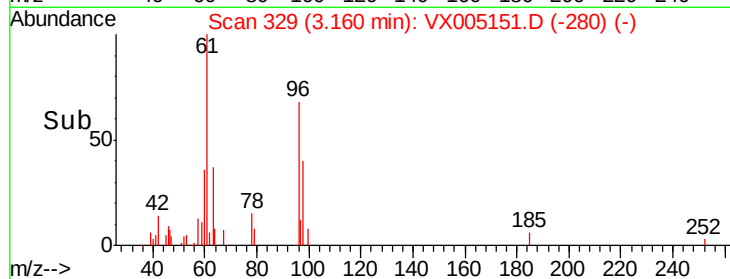
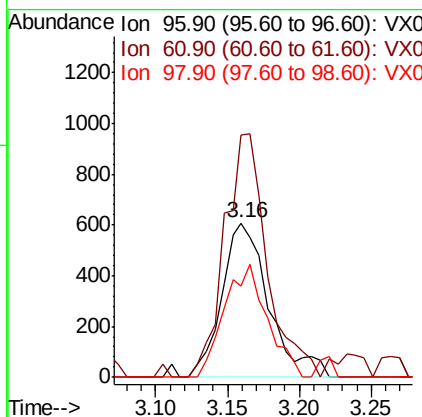
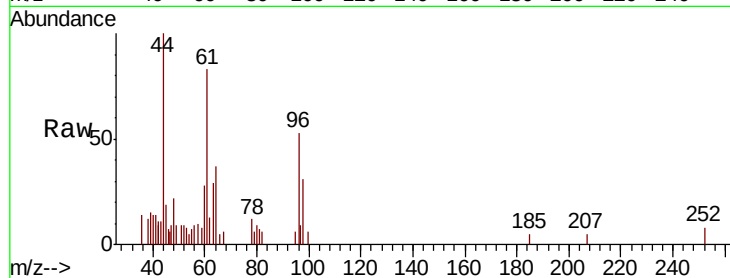




#21
trans-1,2-Dichloroethene
Concen: 0.588 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

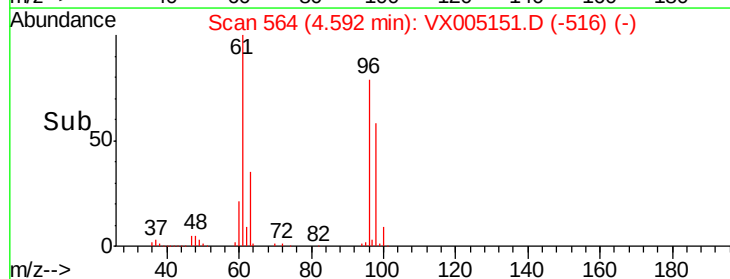
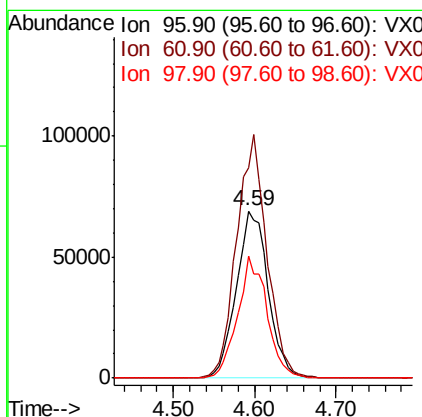
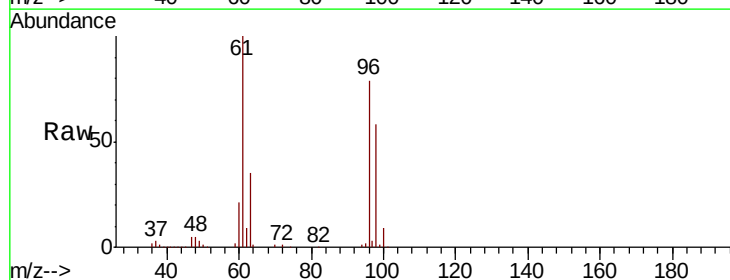
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC1DL

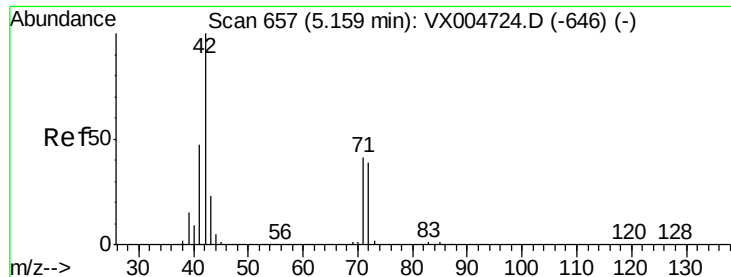
Tot Ion: 96 Resp: 1385
Ion Ratio Lower Upper
96 100
61 156.8 101.0 151.6#
98 58.9 47.2 70.8



#27
cis-1,2-Dichloroethene
Concen: 70.939 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion: 96 Resp: 186659
Ion Ratio Lower Upper
96 100
61 138.4 0.0 285.8
98 67.4 0.0 136.2





#29

Tetrahydrofuran

Concen: 0.997 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

FA18-QBC1DL

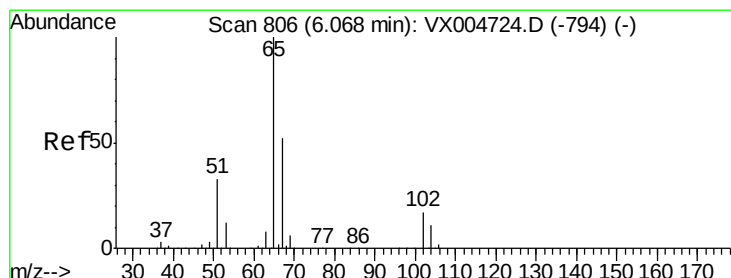
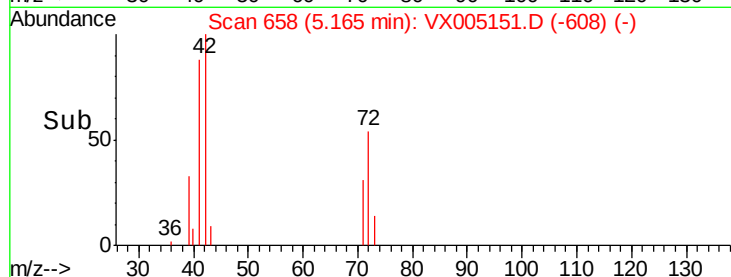
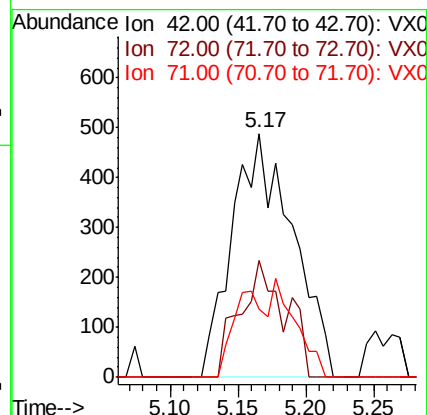
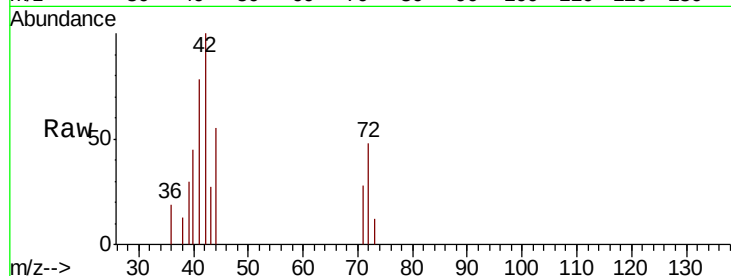
Tot Ion: 42 Resp: 1512

Ion Ratio Lower Upper

42 100

72 35.9 33.7 50.5

71 19.0 32.2 48.4#



#33

1,2-Dichloroethane-d4

Concen: 54.867 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005151.D

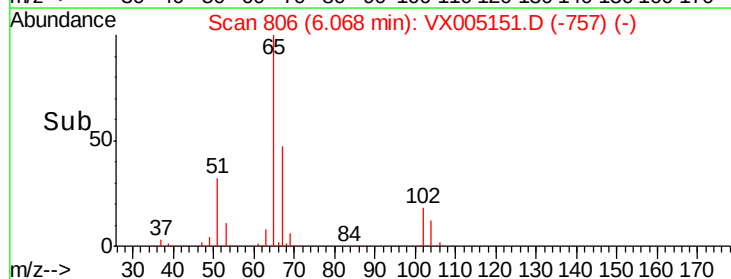
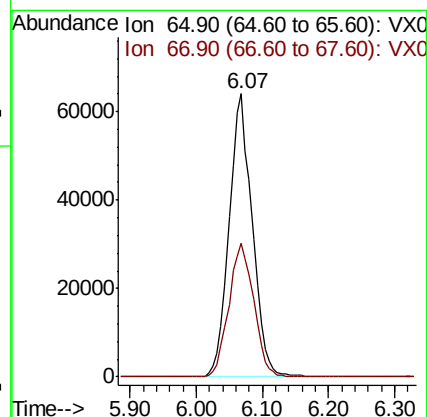
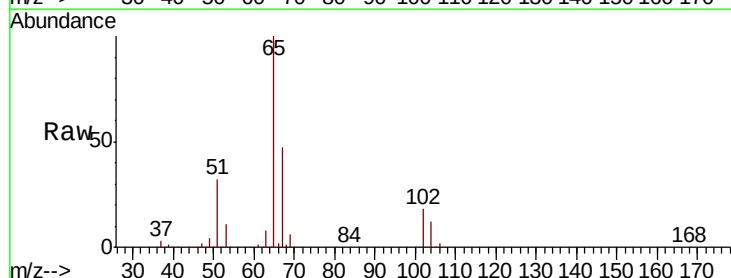
Acq: 09 Oct 2018 02:43

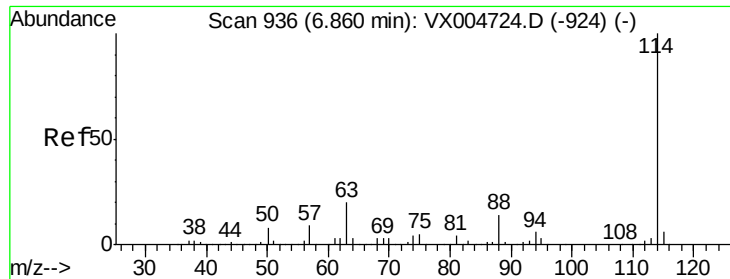
Tgt Ion: 65 Resp: 155641

Ion Ratio Lower Upper

65 100

67 50.8 0.0 107.4

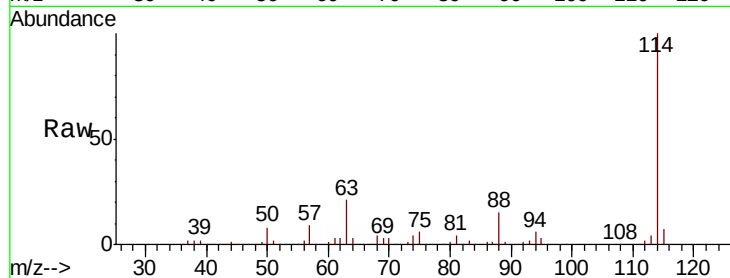




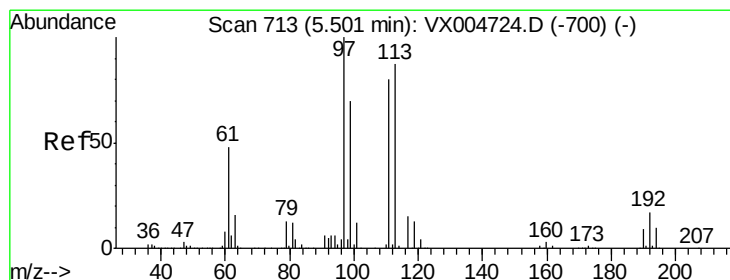
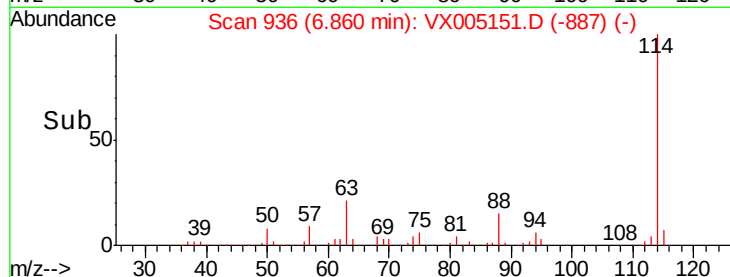
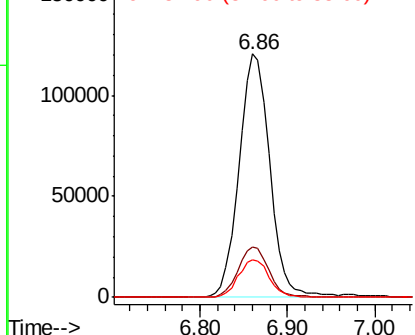
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC1DL

Tot Ion:114 Resp: 294425
Ion Ratio Lower Upper
114 100
63 20.7 0.0 39.8
88 15.2 0.0 27.0

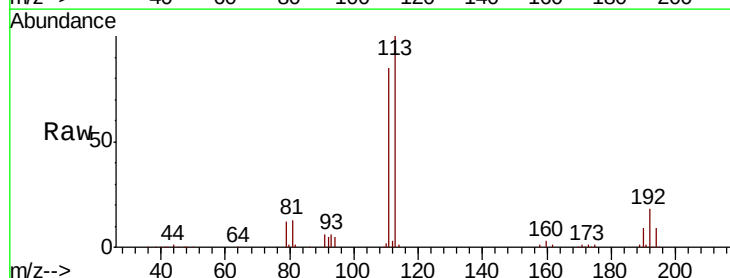


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

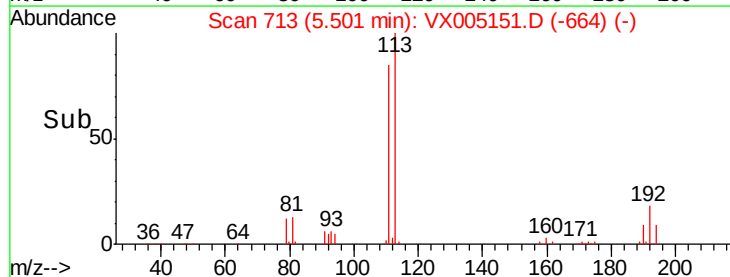
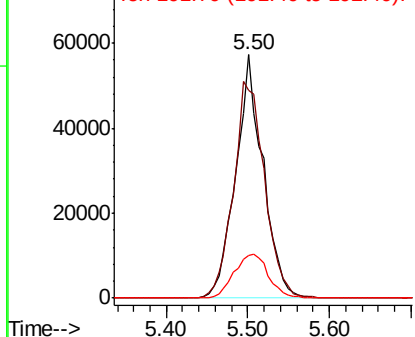


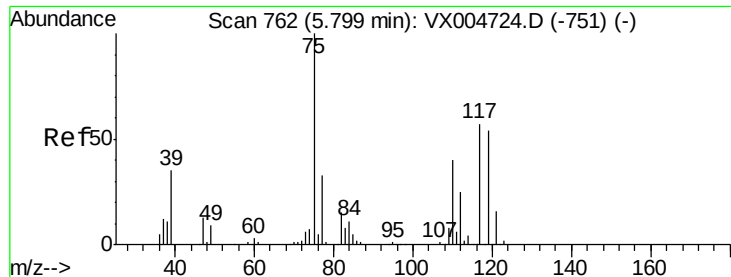
#35
Dibromofluoromethane
Concen: 53.277 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion:113 Resp: 132941
Ion Ratio Lower Upper
113 100
111 101.2 77.0 115.4
192 22.6 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

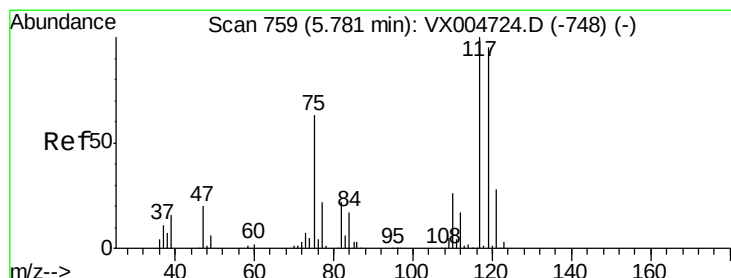
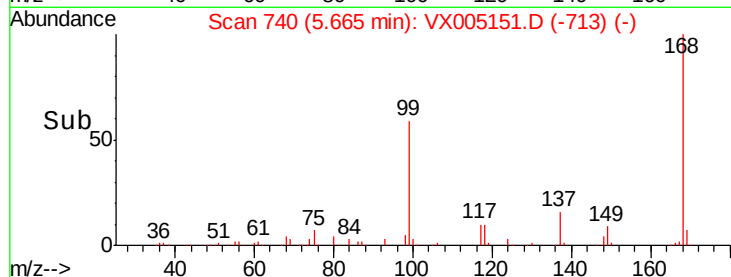
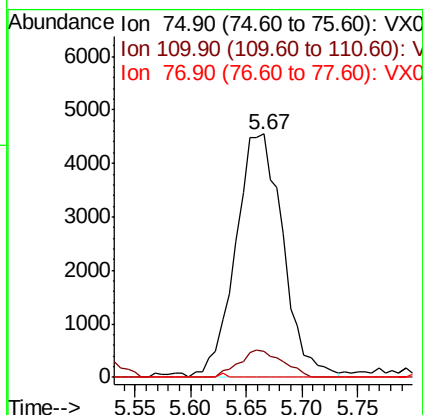
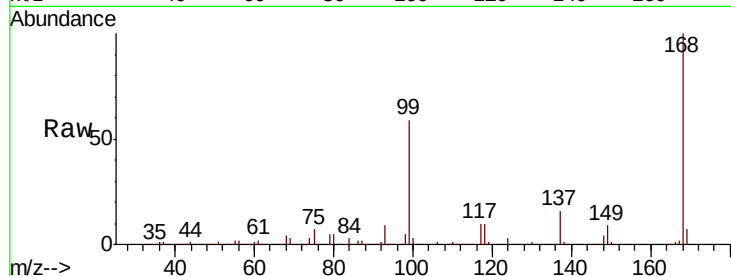




#36
 1,1-Dichloropropene
 Concen: 3.953 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005151.D
 Acq: 09 Oct 2018 02:43

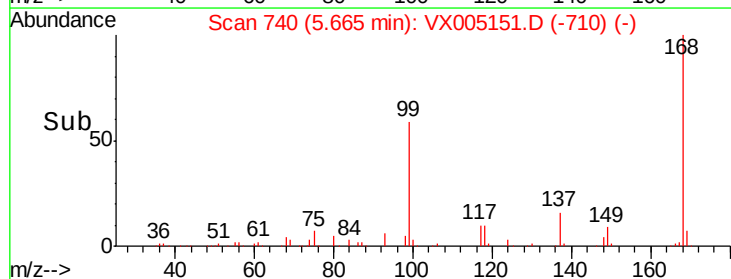
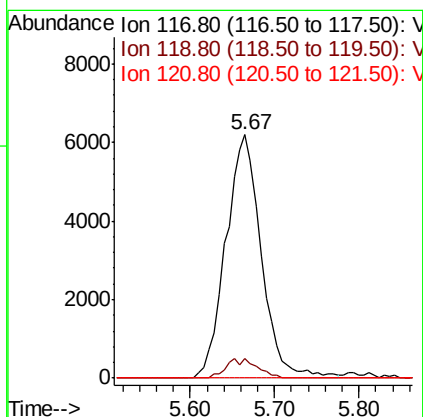
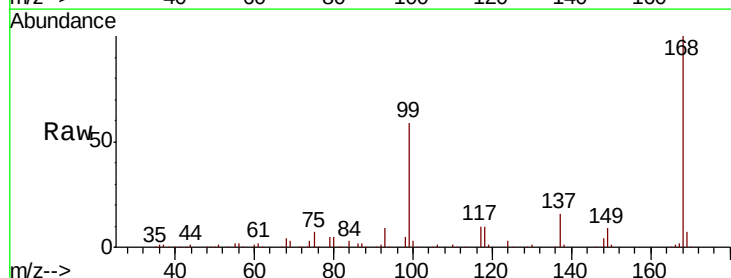
Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-QBC1DL

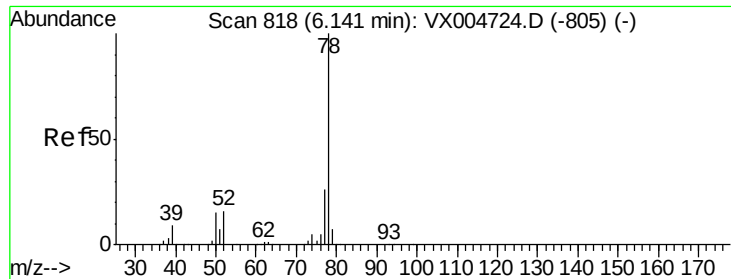
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.3	20.0	59.9#
77	0.0	27.1	40.7#



#38
 Carbon Tetrachloride
 Concen: 4.945 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005151.D
 Acq: 09 Oct 2018 02:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.9	75.2	112.8#
121	0.0	22.5	33.7#





#40

Benzene

Concen: 0.571 ug/l

RT: 6.13 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

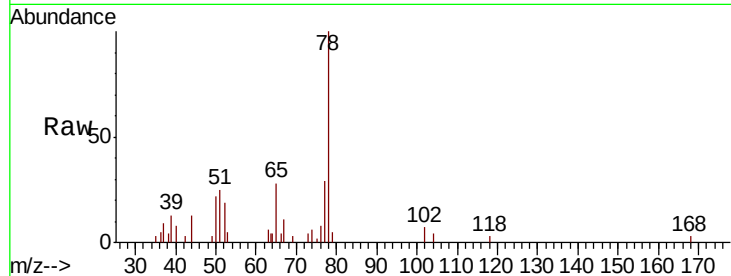
FA18-QBC1DL

Tot Ion: 78 Resp: 6086

Ion Ratio Lower Upper

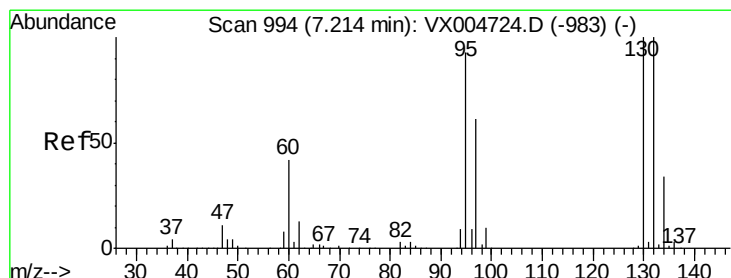
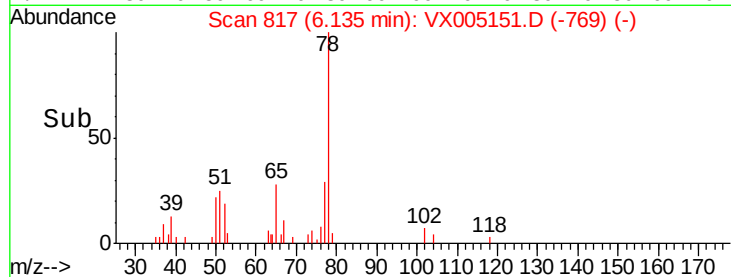
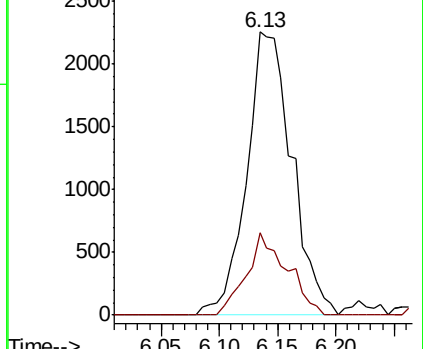
78 100

77 29.1 21.0 31.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 1.290 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005151.D

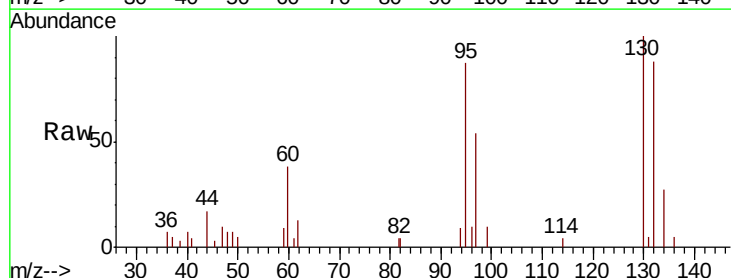
Acq: 09 Oct 2018 02:43

Tgt Ion:130 Resp: 3380

Ion Ratio Lower Upper

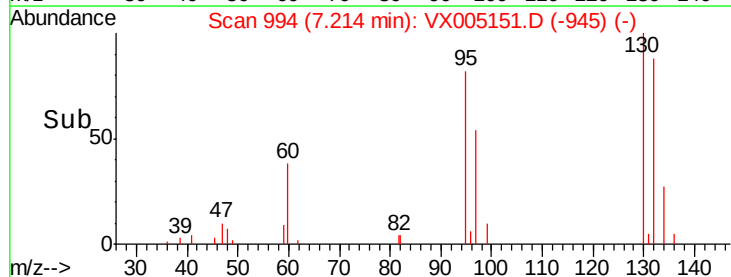
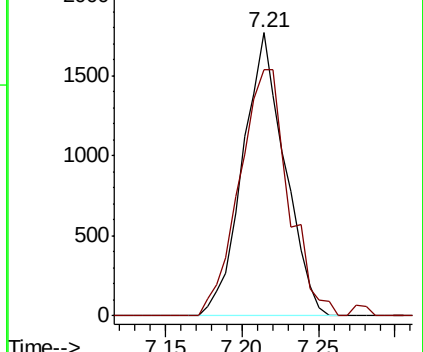
130 100

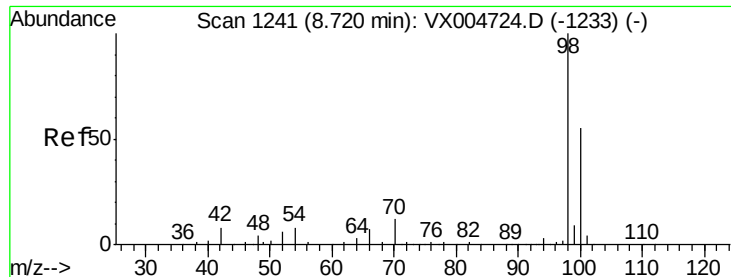
95 87.1 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

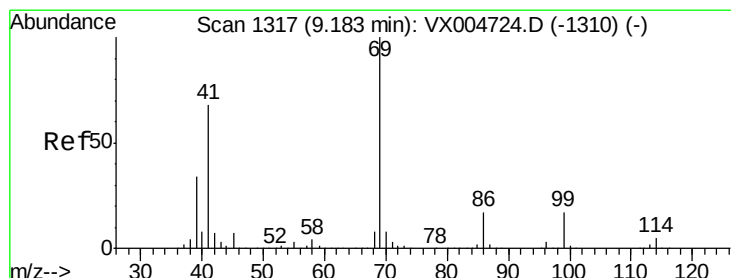
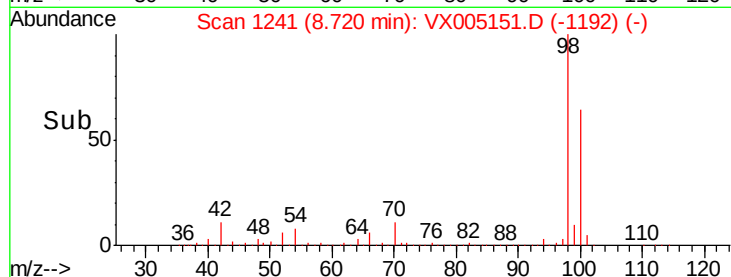
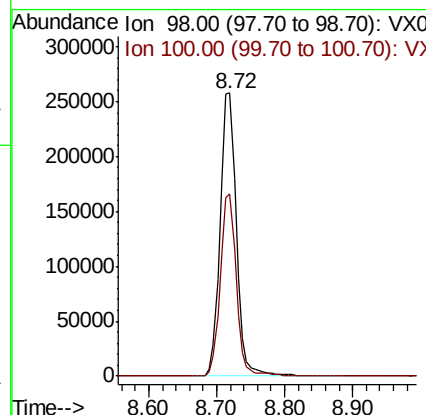
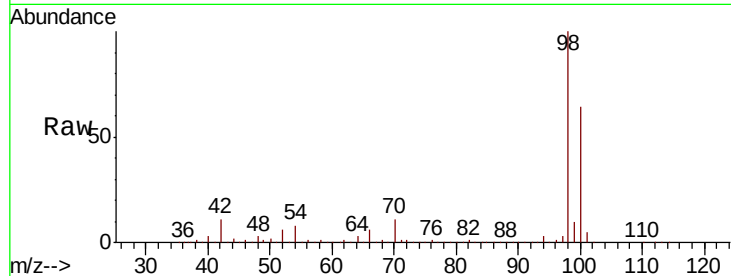




#50
Toluene-d8
Concen: 51.938 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

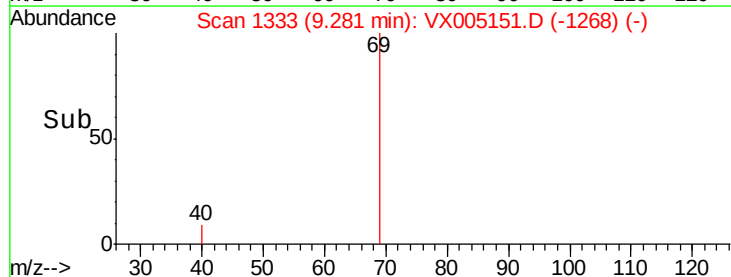
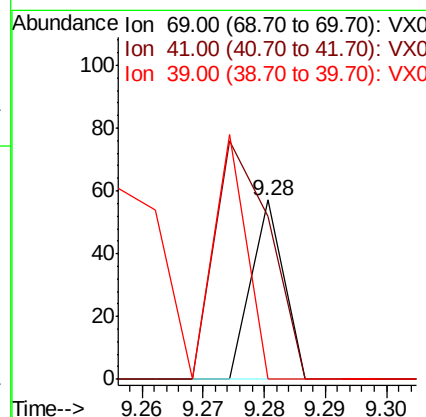
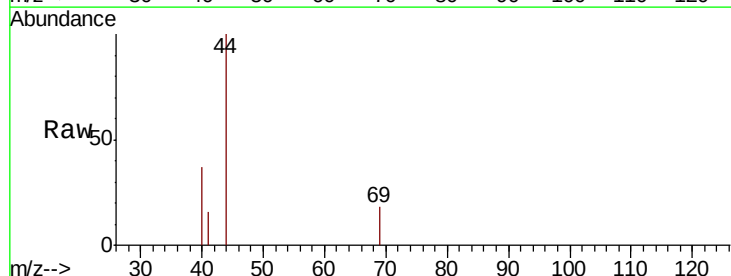
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC1DL

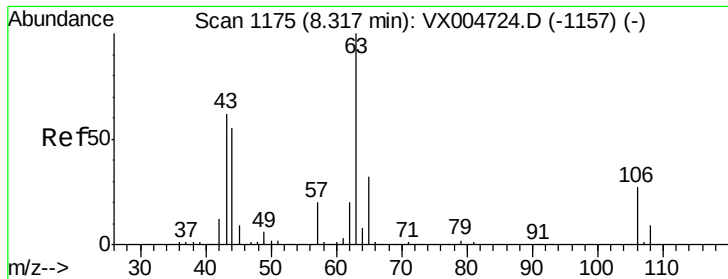
Tot Ion: 98 Resp: 430853
Ion Ratio Lower Upper
98 100
100 63.2 51.9 77.9



#56
Ethyl methacrylate
Concen: 2.867 ug/l
RT: 9.28 min Scan# 1333
Delta R.T. 0.10 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion: 69 Resp: 21
Ion Ratio Lower Upper
69 100
41 223.8 56.9 85.3#
39 0.0 28.4 42.6#





#58

2-Chloroethyl Vinyl ether

Concen: 14.251 ug/l

RT: 8.27 min Scan# 1167

Delta R.T. -0.05 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

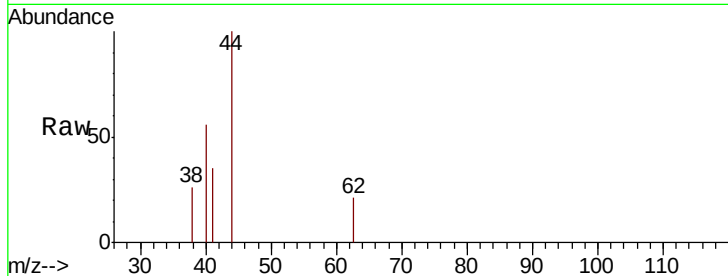
FA18-QBC1DL

Tot Ion: 63 Resp: 20

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.27

60

50

40

30

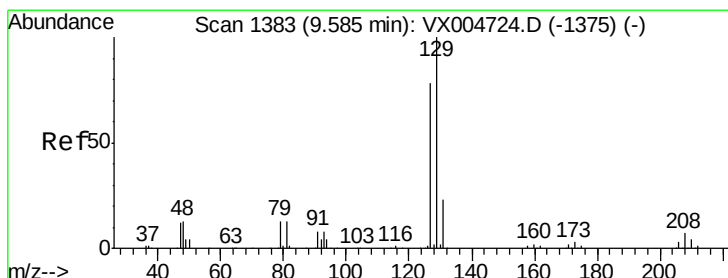
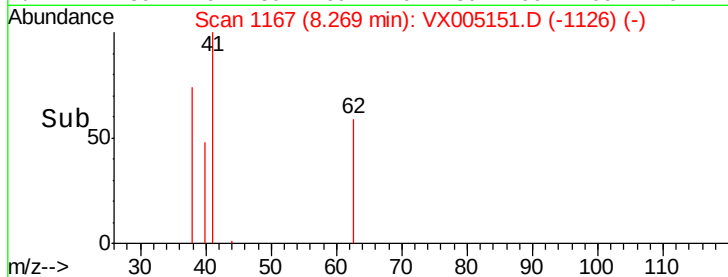
20

10

0

8.25 8.26 8.27 8.28

Time-->



#60

Dibromochloromethane

Concen: 2.394 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005151.D

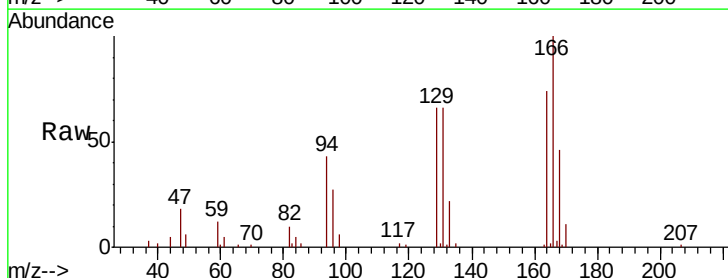
Acq: 09 Oct 2018 02:43

Tgt Ion:129 Resp: 6143

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

4000

3000

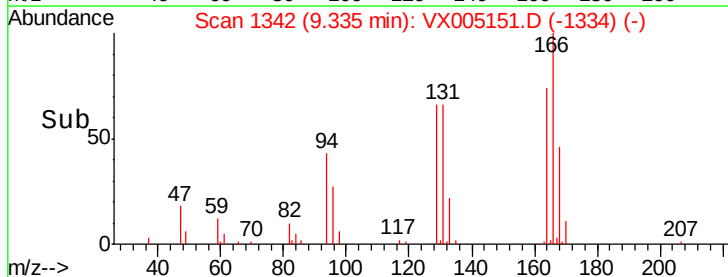
2000

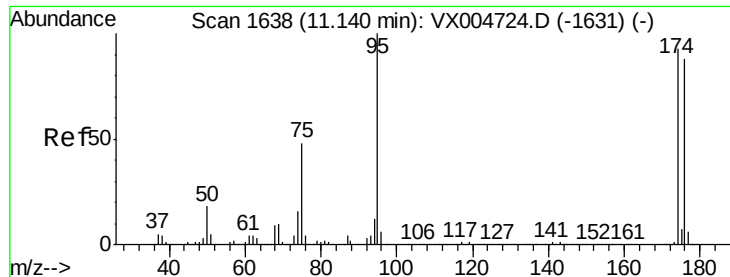
1000

0

9.25 9.30 9.35 9.40

Time-->

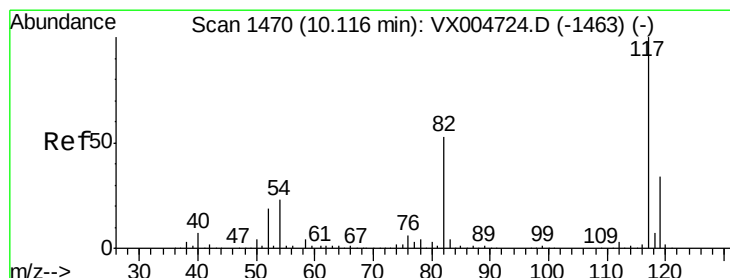
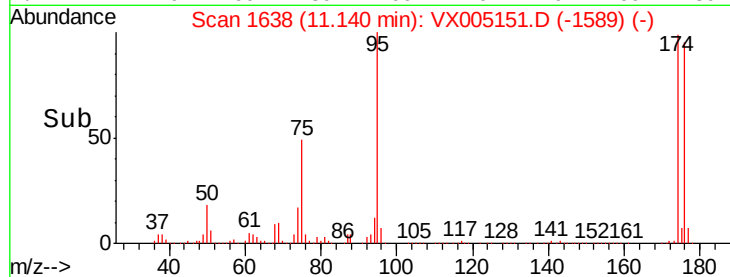
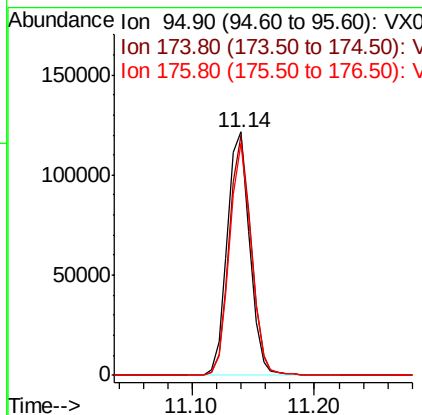
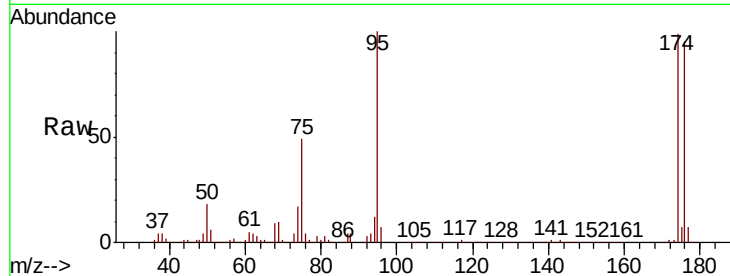




#62
4-Bromofluorobenzene
Concen: 51.809 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

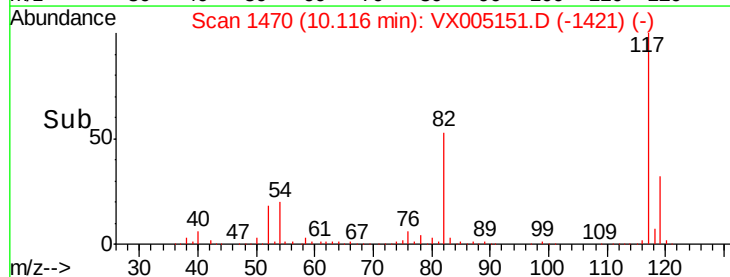
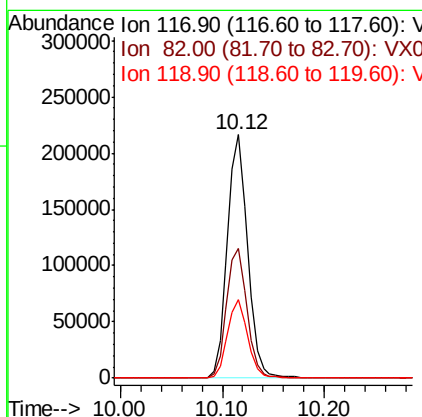
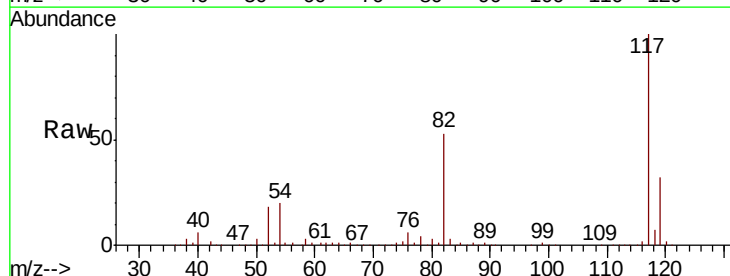
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC1DL

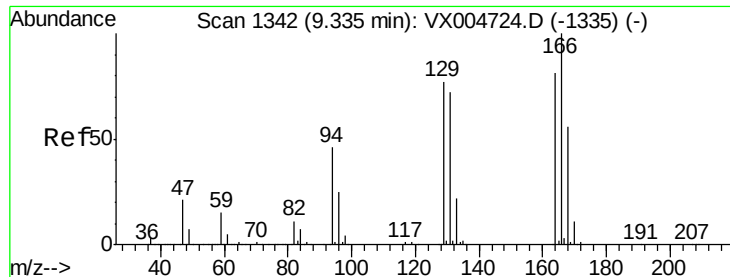
Tot Ion: 95 Resp: 154833
Ion Ratio Lower Upper
95 100
174 96.2 0.0 185.0
176 91.8 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion: 117 Resp: 298395
Ion Ratio Lower Upper
117 100
82 53.3 42.2 63.4
119 32.0 27.4 41.0





#64

Tetrachloroethene

Concen: 2.391 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

FA18-QBC1DL

Tot Ion:164 Resp: 7023

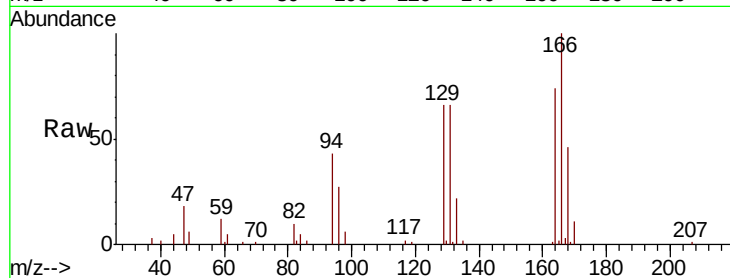
Ion Ratio Lower Upper

164 100

166 135.2 98.4 147.6

129 89.3 76.1 114.1

131 89.2 71.0 106.4

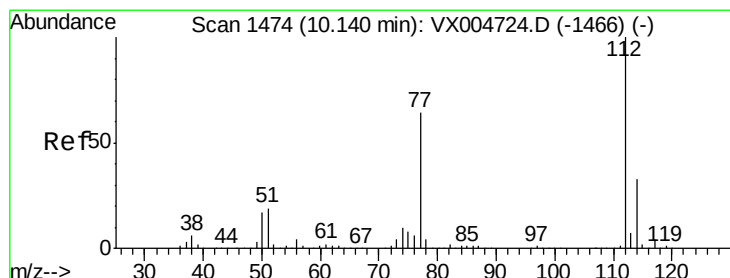
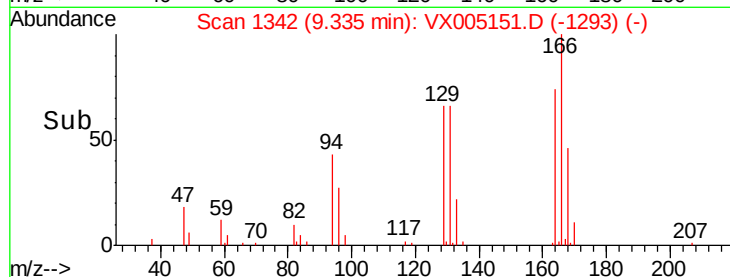
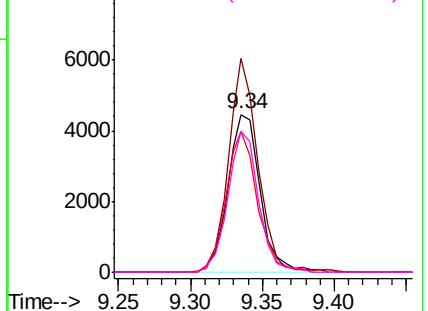


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.345 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.00 min

Lab File: VX005151.D

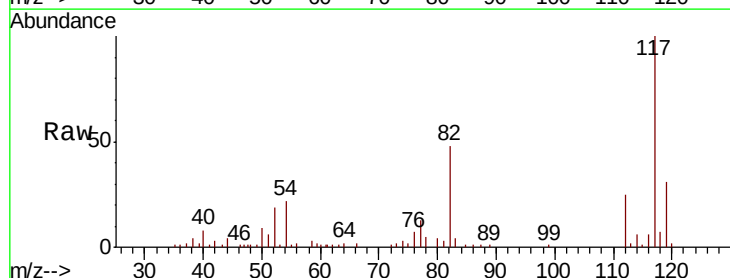
Acq: 09 Oct 2018 02:43

Tgt Ion:112 Resp: 2639

Ion Ratio Lower Upper

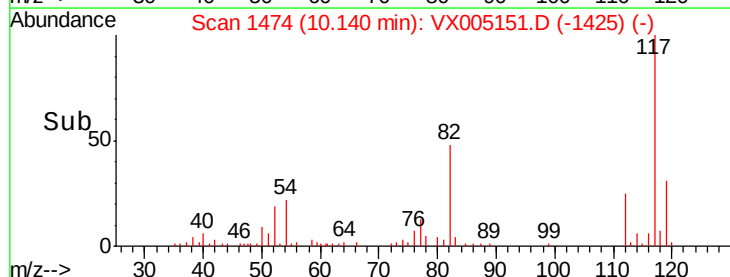
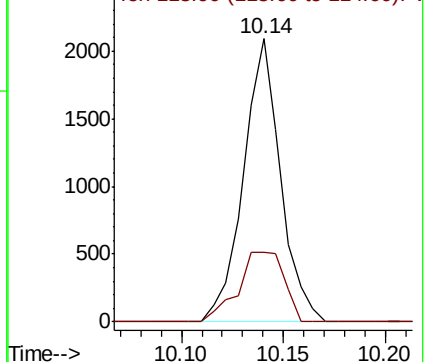
112 100

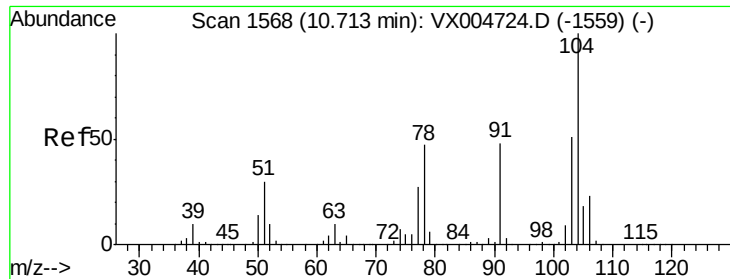
114 24.5 26.7 40.1#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

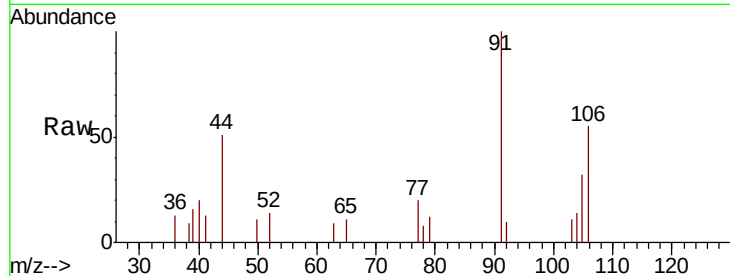




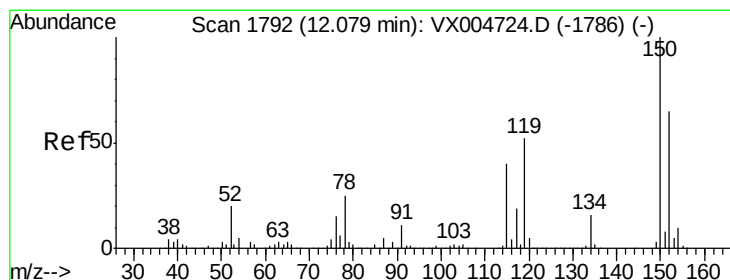
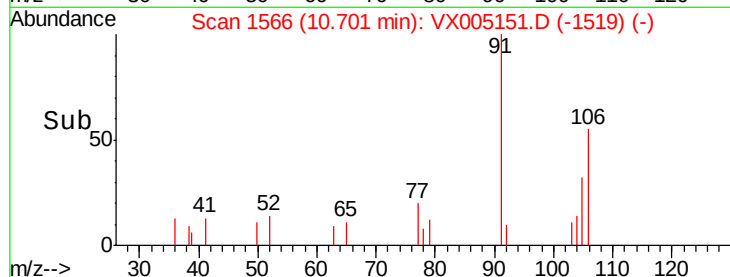
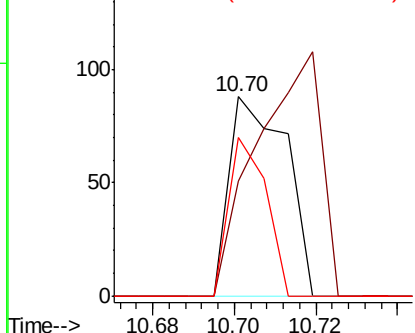
#70
Stvrene
Concen: 2.151 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Instrument :
MSVOA_X
ClientSampled :
FA18-QBC1DL

Tot Ion:104 Resp: 86
Ion Ratio Lower Upper
104 100
78 137.2 40.0 60.0#
103 52.3 44.3 66.5

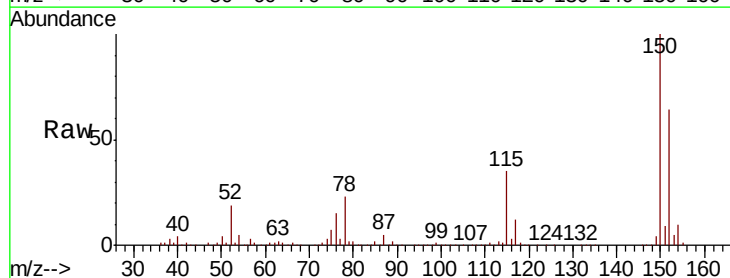


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V

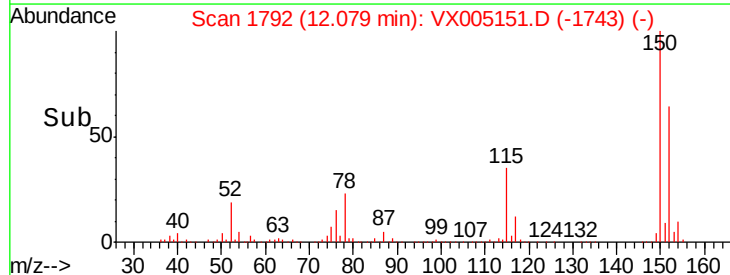
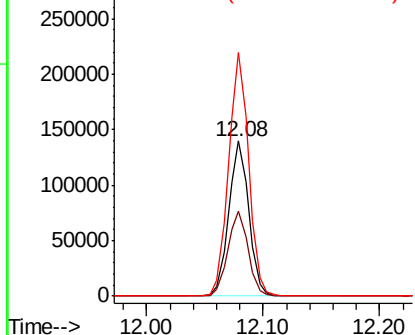


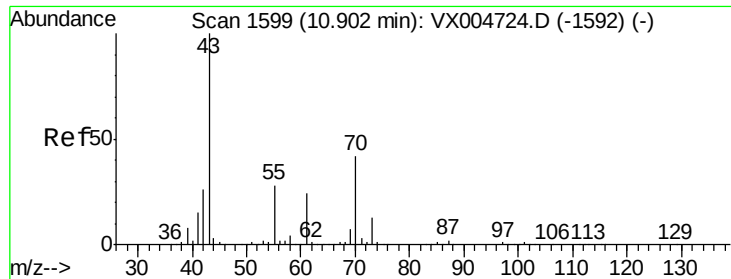
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion:152 Resp: 166717
Ion Ratio Lower Upper
152 100
115 55.4 40.2 120.6
150 157.3 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-amvl acetate

Concen: 1.775 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX005151.D

Acq: 09 Oct 2018 02:43

Instrument :

MSVOA_X

ClientSampleId :

FA18-QBC1DL

Tot Ion: 43 Resp: 161

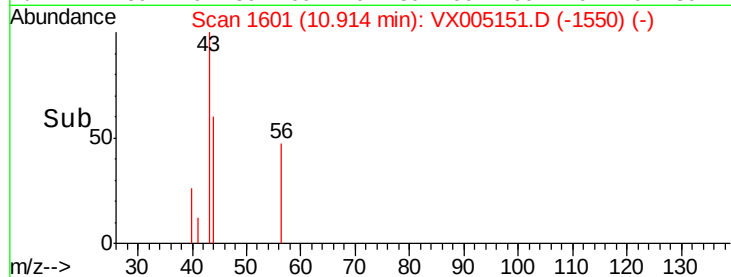
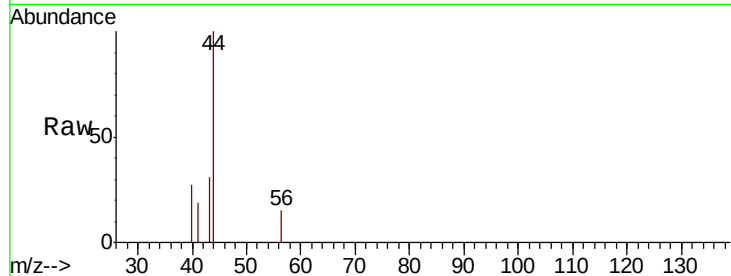
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

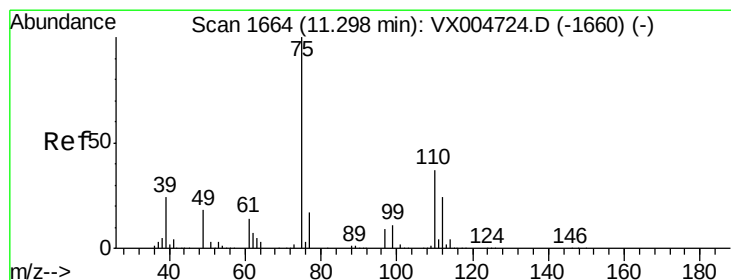
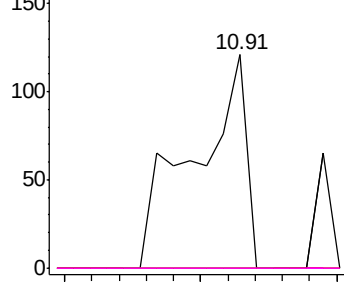


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#76

1,2,3-Trichloropropane

Concen: 20.810 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005151.D

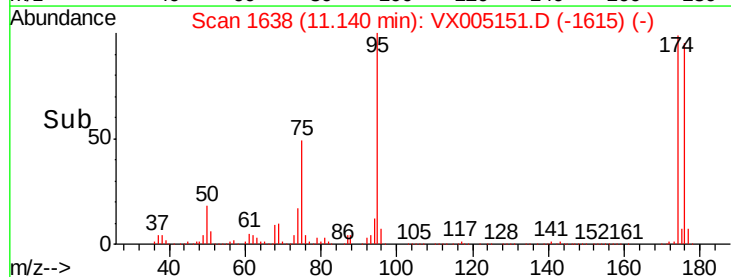
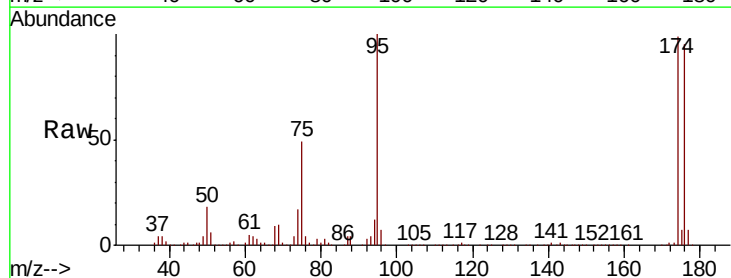
Acq: 09 Oct 2018 02:43

Tgt Ion: 75 Resp: 77760

Ion Ratio Lower Upper

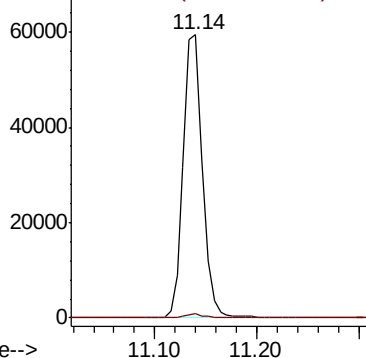
75 100

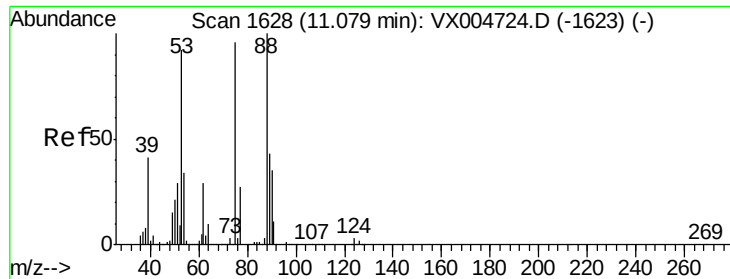
77 1.5 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

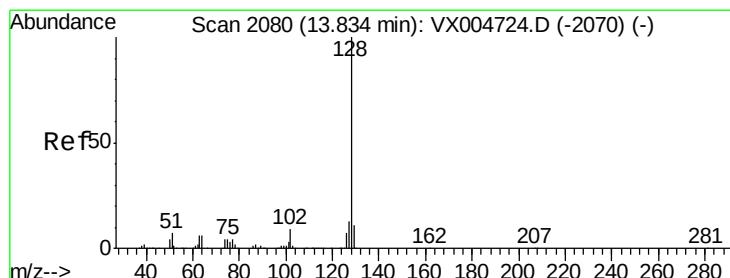
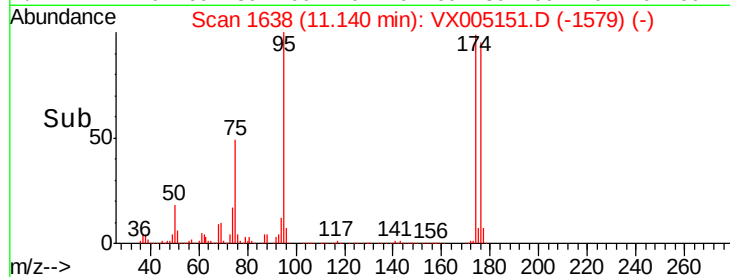
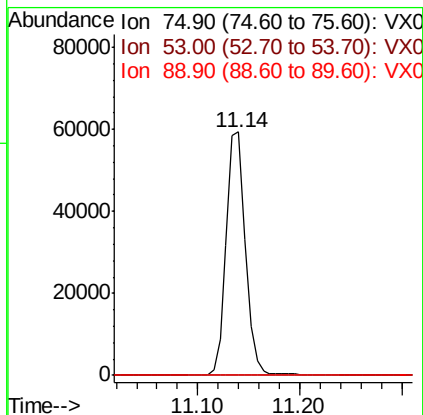
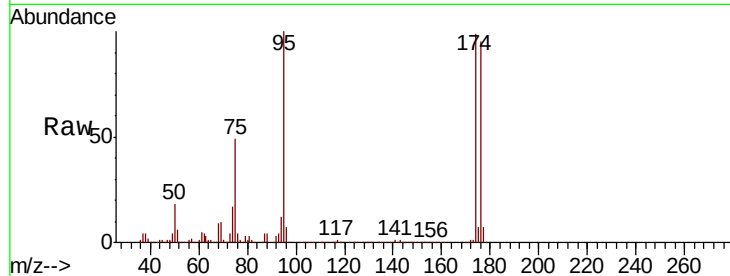




#81
trans-1,4-Dichloro-2-butene
Concen: 56.487 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC1DL

Tot Ion: 75 Resp: 77760
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.975 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005151.D
Acq: 09 Oct 2018 02:43

Tgt Ion:128 Resp: 3596
Ion Ratio Lower Upper
128 100
127 15.1 10.4 15.6
129 12.5 8.7 13.1

