

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005303.D
 Acq On : 12 Oct 2018 19:38
 Operator : JC/MD
 Sample : J5458-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-006-10-03-18

Quant Time: Oct 13 02:37:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	287729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375418	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	331593	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159275	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	163598	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	5.50	113	126866	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
50) Toluene-d8	8.71	98	445999	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	11.14	95	143211	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	

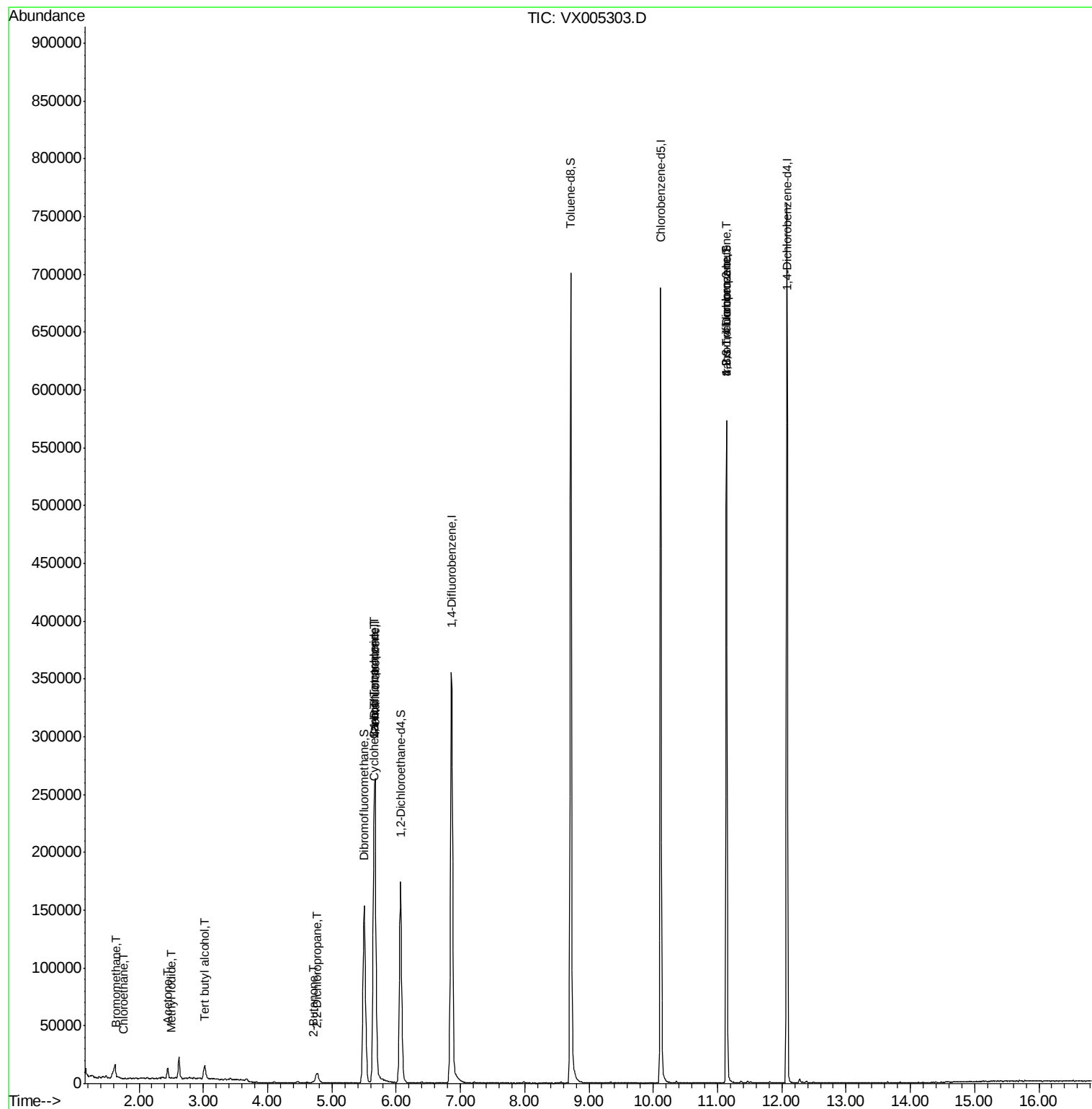
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	637	0.922	ug/l	90
6) Chloroethane	1.75	64	65	0.365	ug/l #	1
10) Methyl Iodide	2.51	142	502	2.660	ug/l #	91
11) Tert butyl alcohol	3.02	59	7315	8.121	ug/l #	80
13) Acrolein	2.29	56	117	Below Cal	#	1
16) Acetone	2.45	43	9424	5.104	ug/l	97
20) Methylene Chloride	2.85	84	222	Below Cal	#	82
25) 2-Butanone	4.71	43	2209	0.818	ug/l #	69
26) 2,2-Dichloropropane	4.77	77	960	0.241	ug/l #	52
31) Cyclohexane	5.65	56	5287	1.204	ug/l #	52
36) 1,1-Dichloropropene	5.65	75	18747	5.156	ug/l #	49
38) Carbon Tetrachloride	5.66	117	23750	6.501	ug/l #	16
44) Trichloroethene	7.22	130	365	Below Cal		97
76) 1,2,3-Trichloropropane	11.14	75	69647	22.543	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	69647	68.497	ug/l #	10

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

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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: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

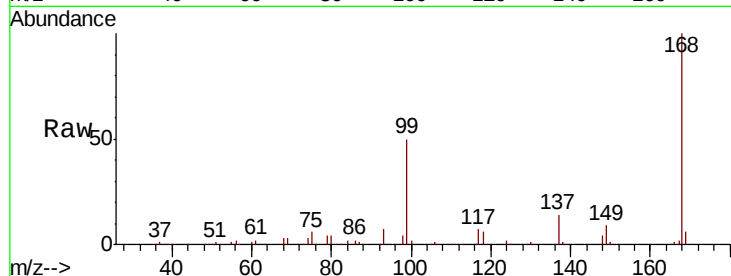
RAV-006-10-03-18

Tot Ion:168 Resp: 287729

Ion Ratio Lower Upper

168 100

99 49.5 39.9 59.9



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

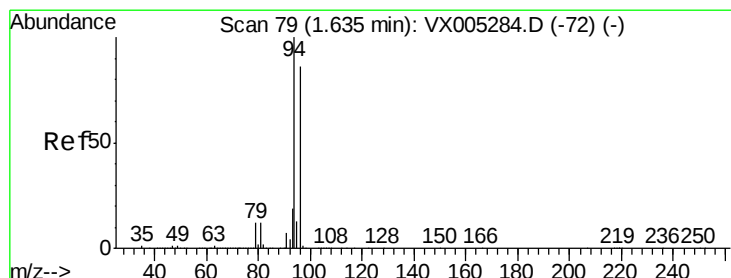
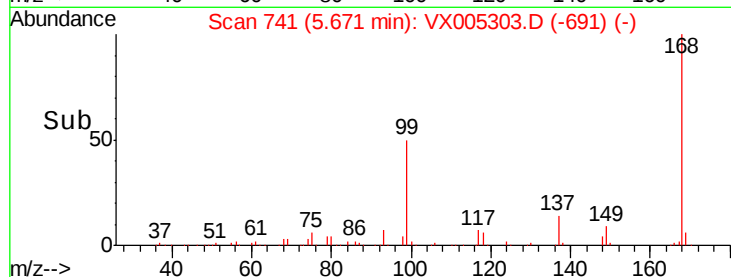
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.922 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005303.D

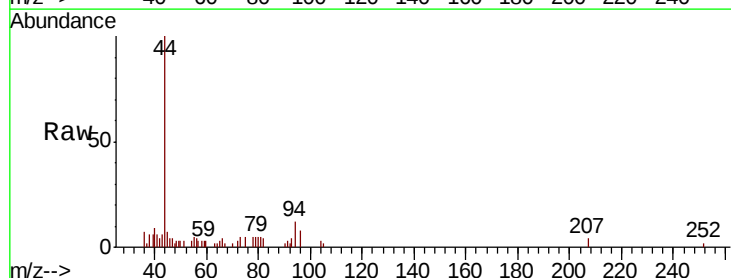
Acq: 12 Oct 2018 19:38

Tgt Ion: 94 Resp: 637

Ion Ratio Lower Upper

94 100

96 83.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

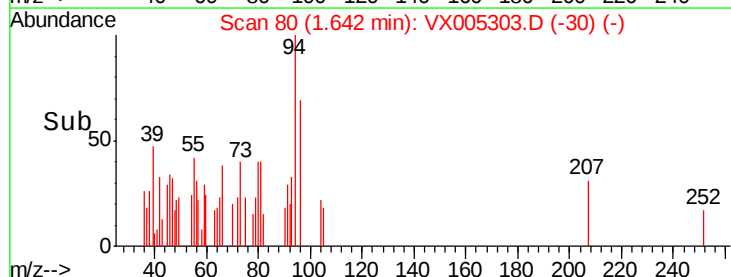
200

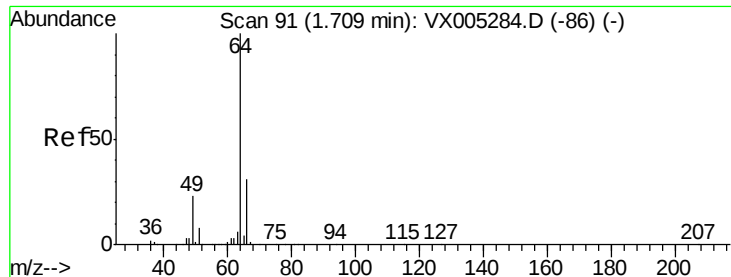
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.365 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

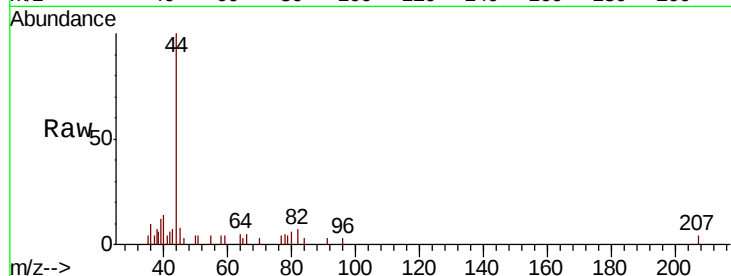
RAV-006-10-03-18

Tot Ion: 64 Resp: 65

Ion Ratio Lower Upper

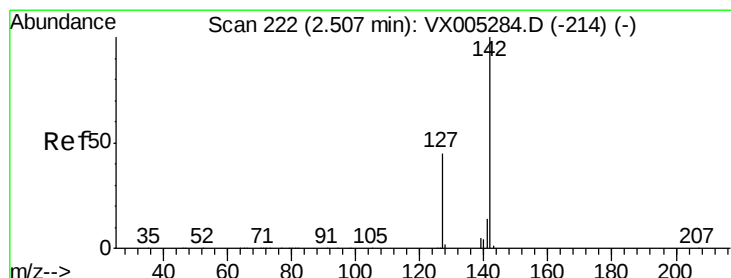
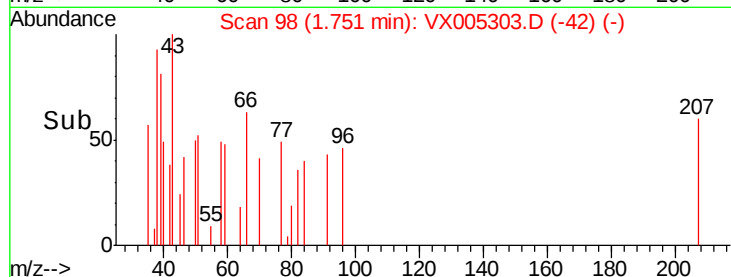
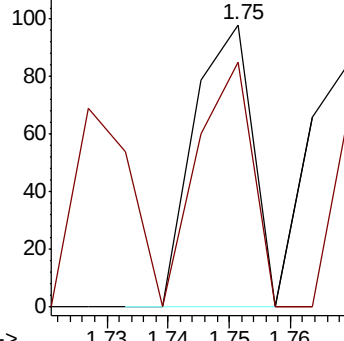
64 100

66 86.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.660 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

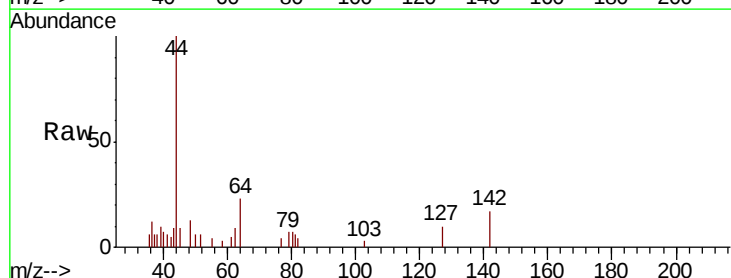
Tgt Ion: 142 Resp: 502

Ion Ratio Lower Upper

142 100

127 41.8 33.8 50.6

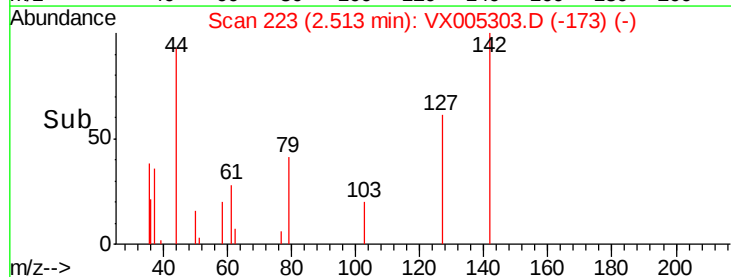
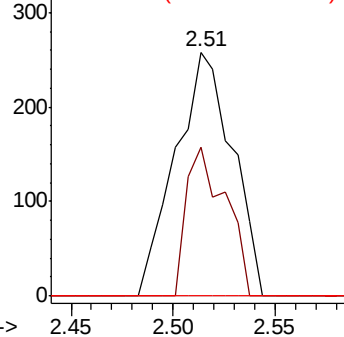
141 0.0 11.4 17.0#

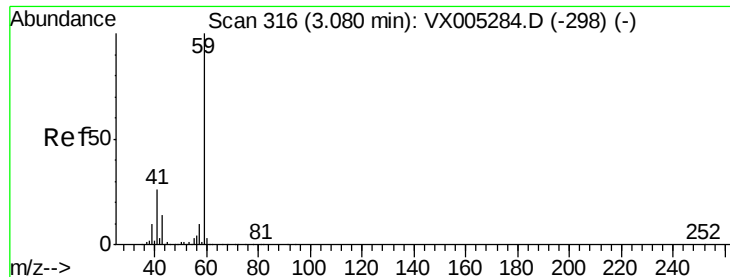


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



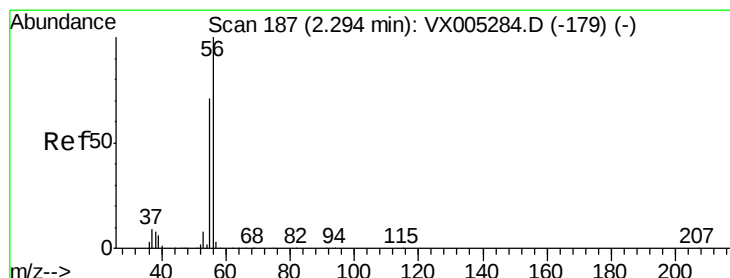
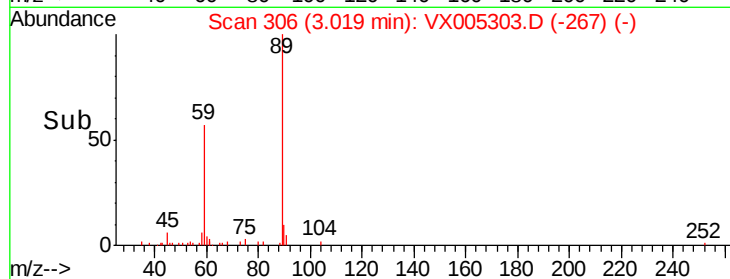
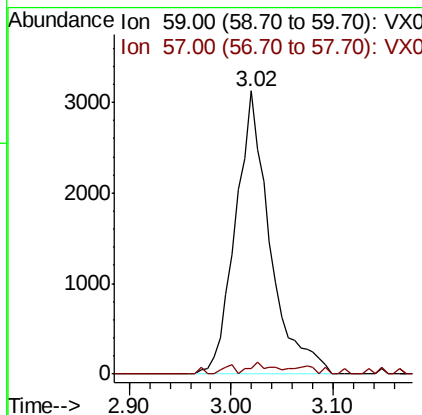
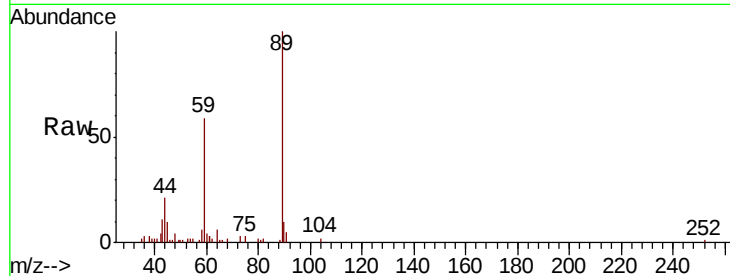


#11

Tert butyl alcohol
 Concen: 8.121 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005303.D
 Acq: 12 Oct 2018 19:38

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-006-10-03-18

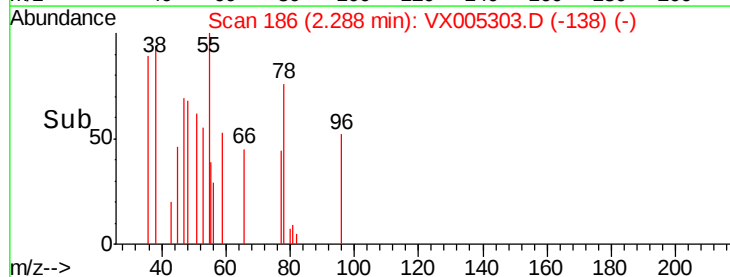
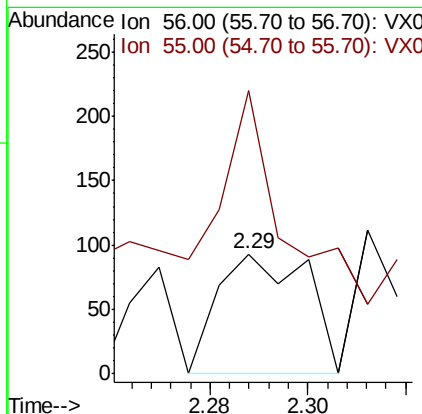
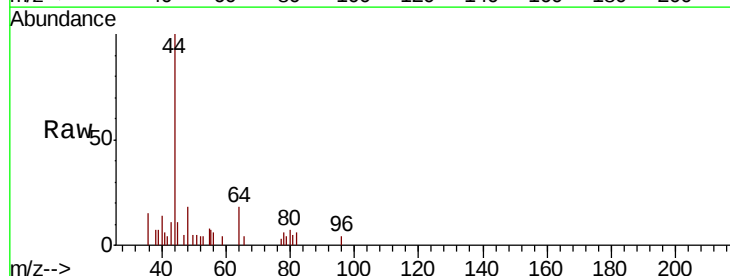
Tot Ion: 59 Resp: 7315
 Ion Ratio Lower Upper
 59 100
 57 2.7 8.2 12.4#

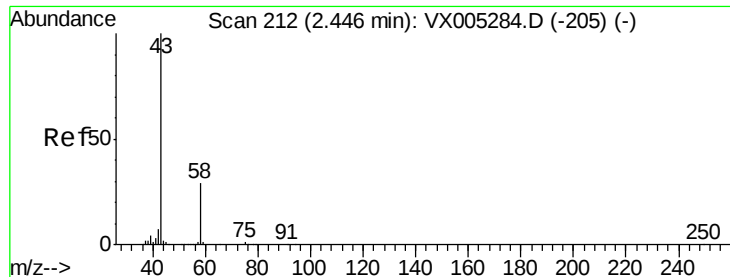


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005303.D
 Acq: 12 Oct 2018 19:38

Tgt Ion: 56 Resp: 117
 Ion Ratio Lower Upper
 56 100
 55 413.7 54.7 82.1#





#16

Acetone

Concen: 5.104 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

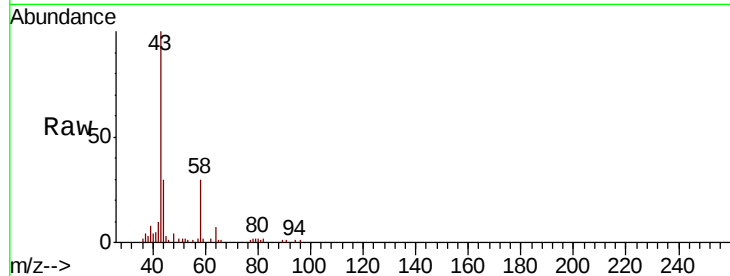
RAV-006-10-03-18

Tot Ion: 43 Resp: 9424

Ion Ratio Lower Upper

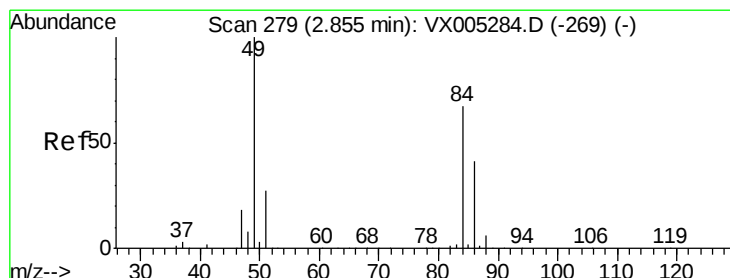
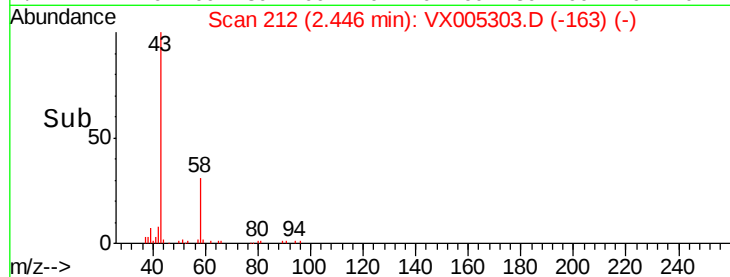
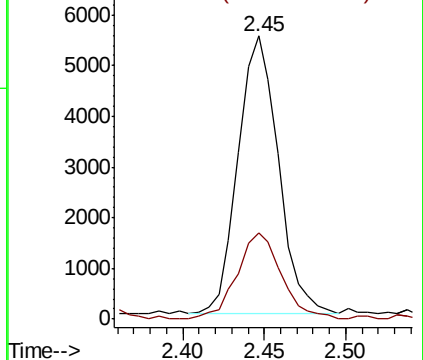
43 100

58 31.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Tgt Ion: 84 Resp: 222

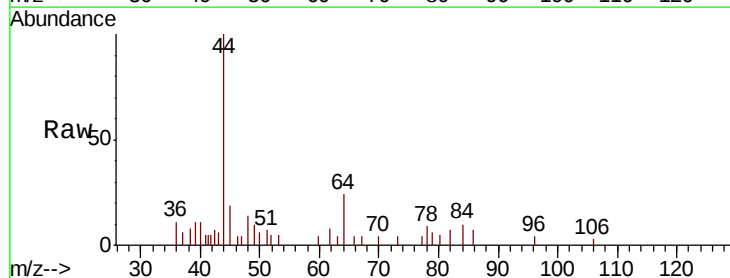
Ion Ratio Lower Upper

84 100

49 99.3 101.2 151.8#

51 22.0 29.5 44.3#

86 68.0 52.3 78.5

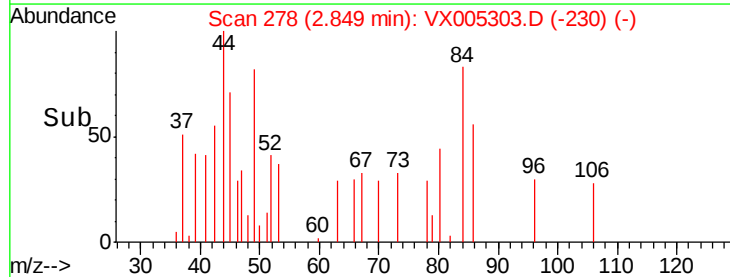
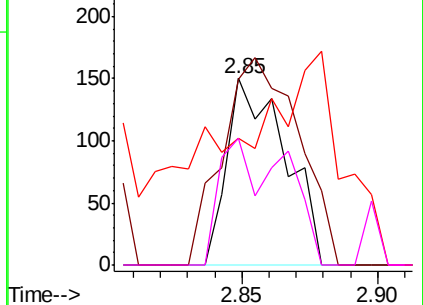


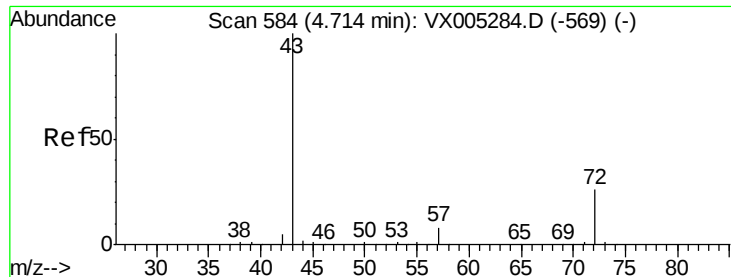
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.818 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

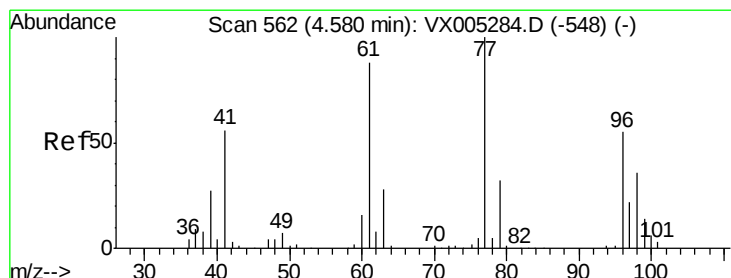
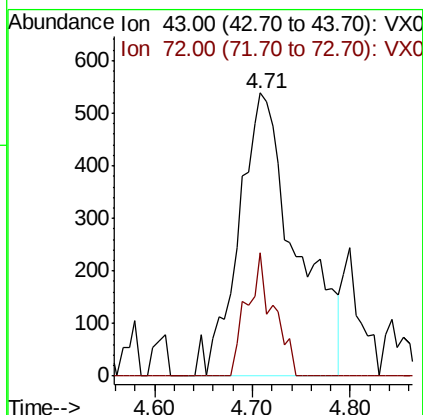
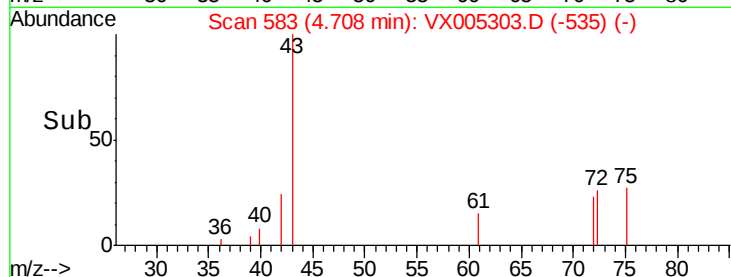
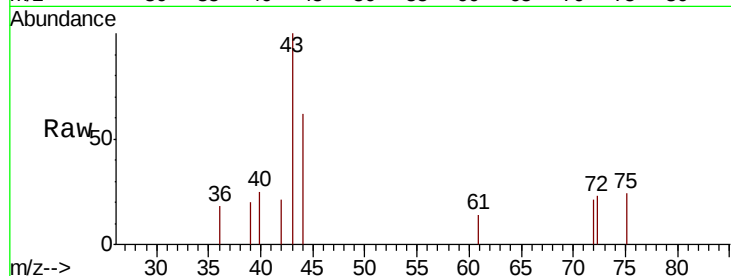
RAV-006-10-03-18

Tot Ion: 43 Resp: 2209

Ion Ratio Lower Upper

43 100

72 43.7 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.241 ug/l

RT: 4.77 min Scan# 593

Delta R.T. 0.19 min

Lab File: VX005303.D

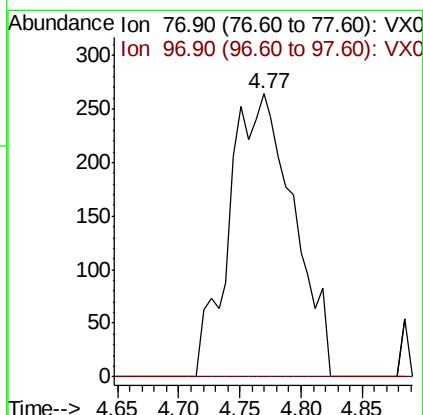
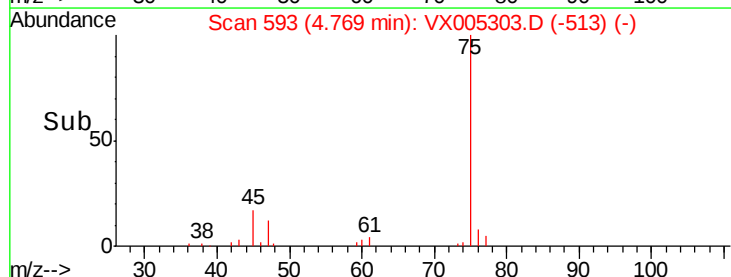
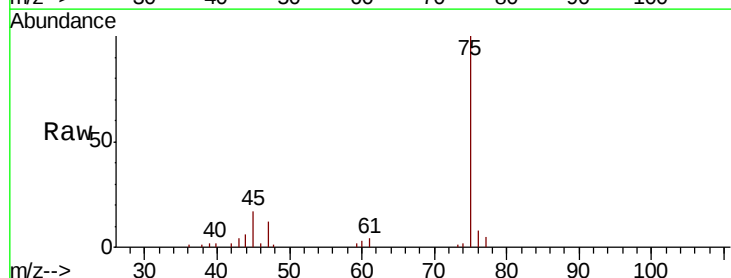
Acq: 12 Oct 2018 19:38

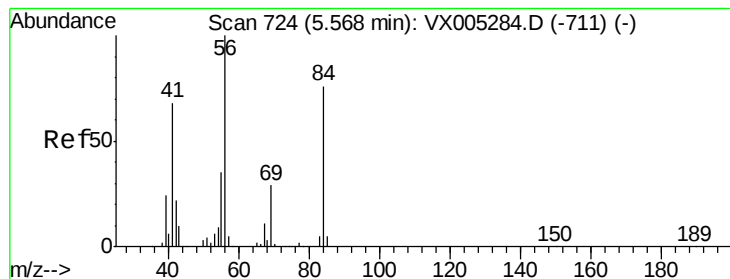
Tgt Ion: 77 Resp: 960

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#31

Cyclohexane

Concen: 1.204 ug/l

RT: 5.65 min Scan# 737

Delta R.T. 0.08 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

RAV-006-10-03-18

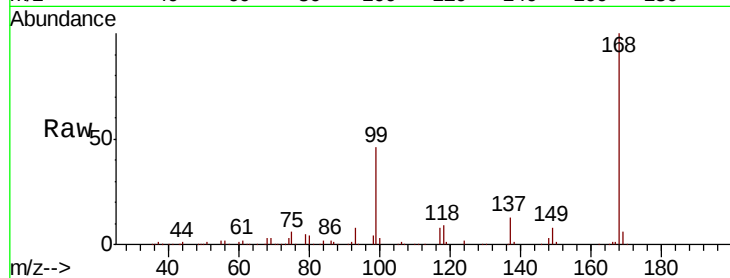
Tot Ion: 56 Resp: 5287

Ion Ratio Lower Upper

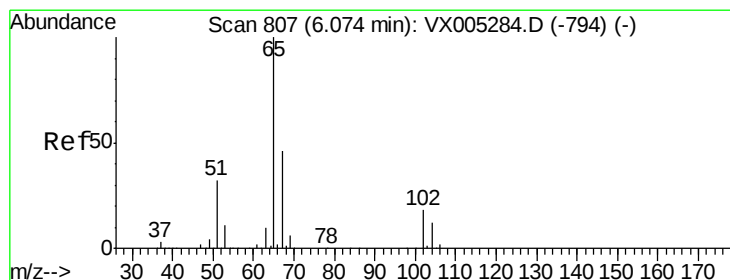
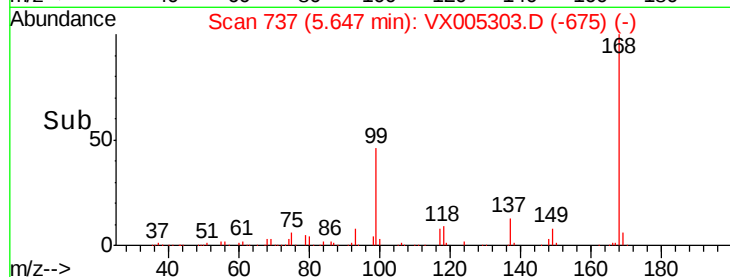
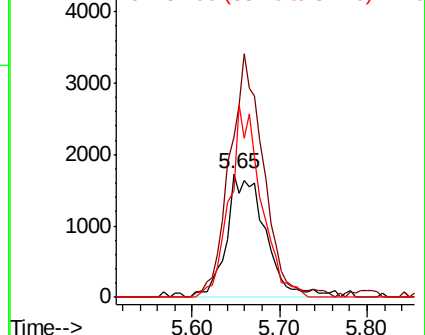
56 100

69 129.2 25.4 38.2#

84 86.7 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.231 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005303.D

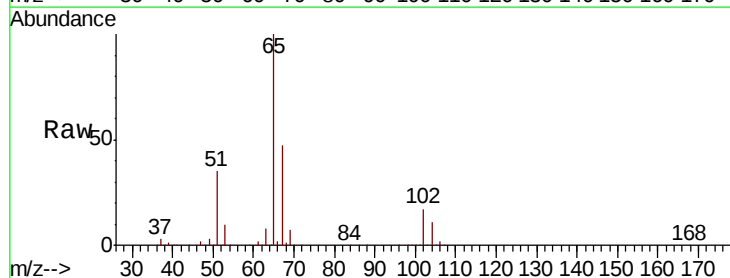
Acq: 12 Oct 2018 19:38

Tgt Ion: 65 Resp: 163598

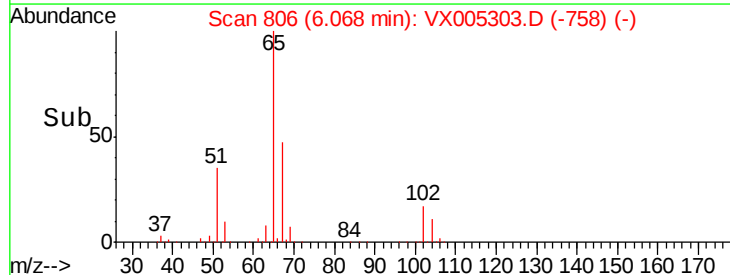
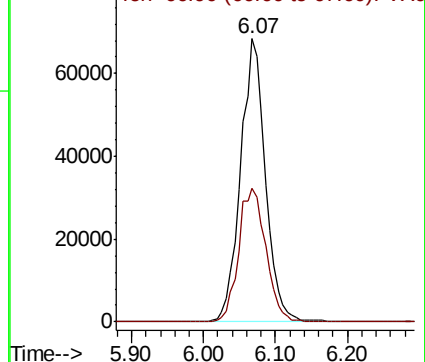
Ion Ratio Lower Upper

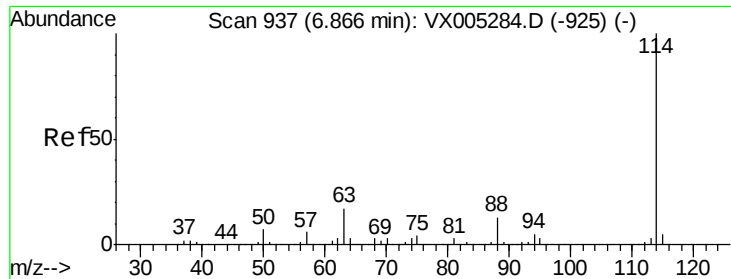
65 100

67 52.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

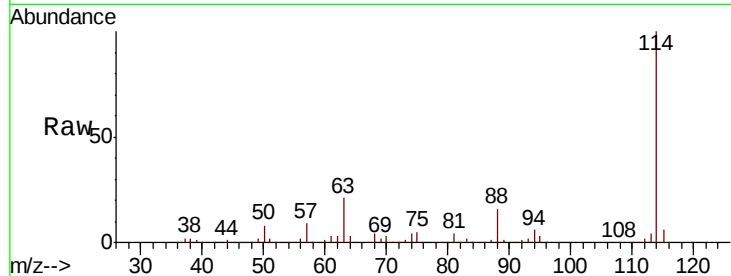




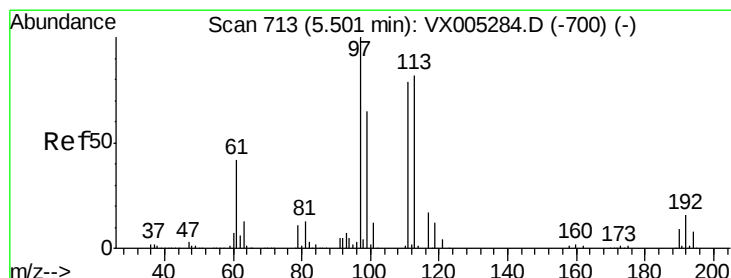
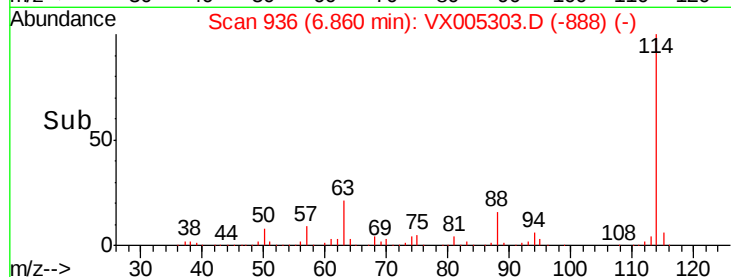
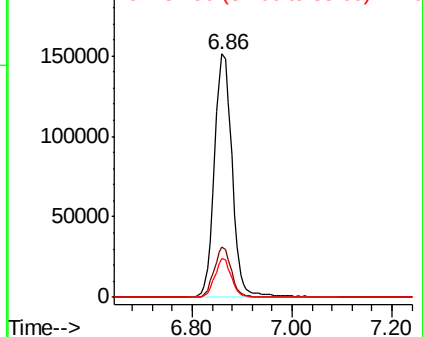
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005303.D
 Acq: 12 Oct 2018 19:38

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-006-10-03-18

Tot Ion:114 Resp: 375418
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 39.0
 88 16.0 0.0 30.4

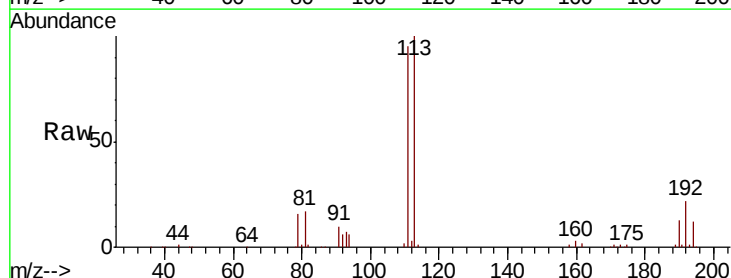


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

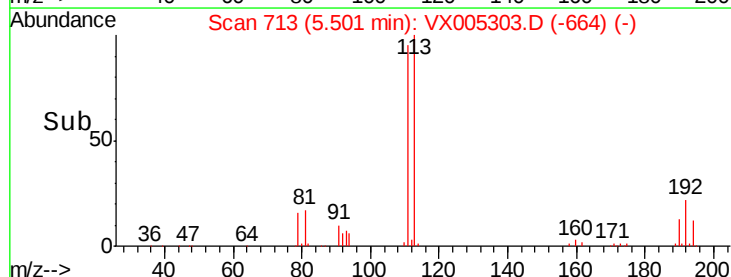
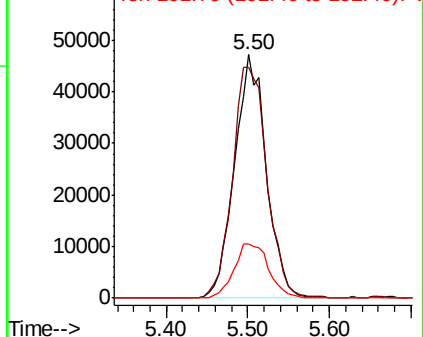


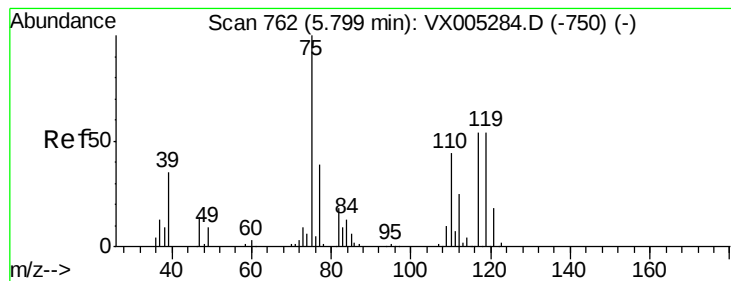
#35
 Dibromofluoromethane
 Concen: 51.022 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005303.D
 Acq: 12 Oct 2018 19:38

Tgt Ion:113 Resp: 126866
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 24.4 19.4 29.2



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: 5.156 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

RAV-006-10-03-18

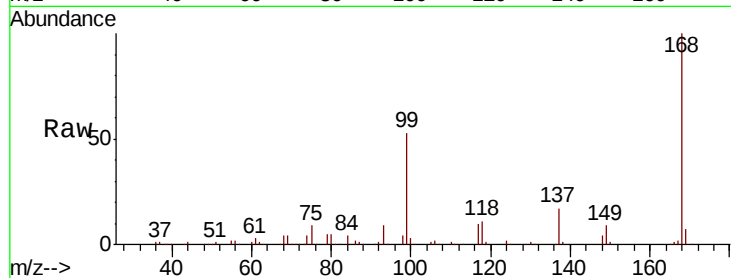
Tot Ion: 75 Resp: 18747

Ion Ratio Lower Upper

75 100

110 8.6 18.0 54.0#

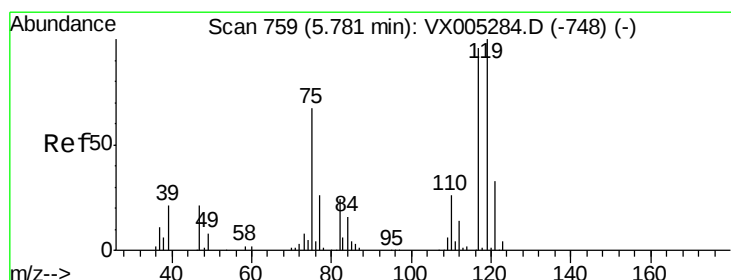
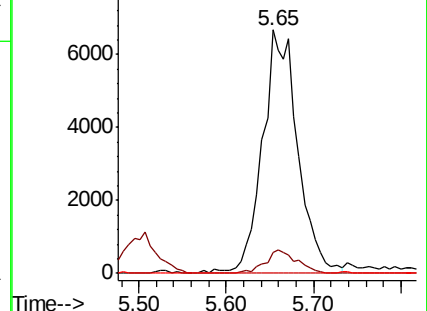
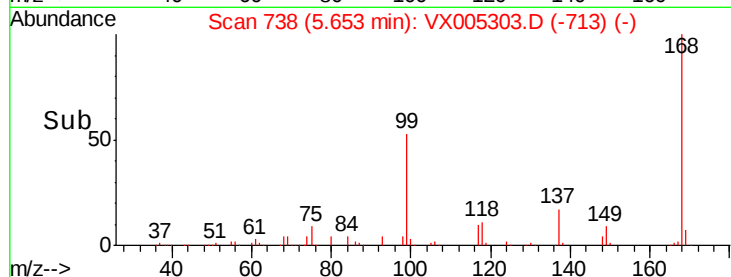
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.501 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

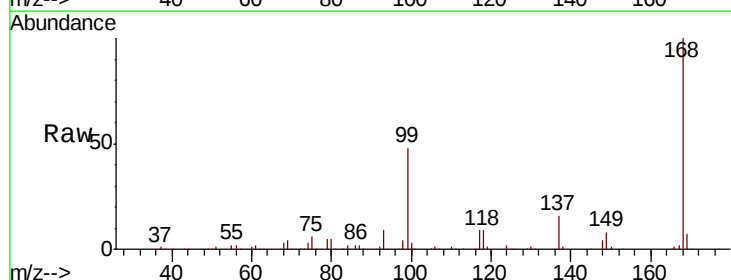
Tgt Ion: 117 Resp: 23750

Ion Ratio Lower Upper

117 100

119 6.3 78.8 118.2#

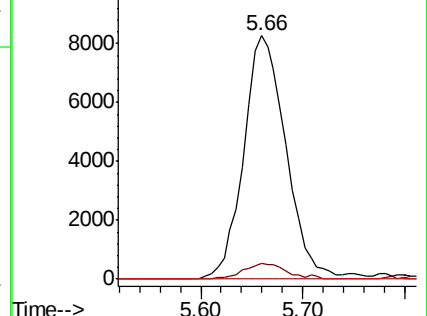
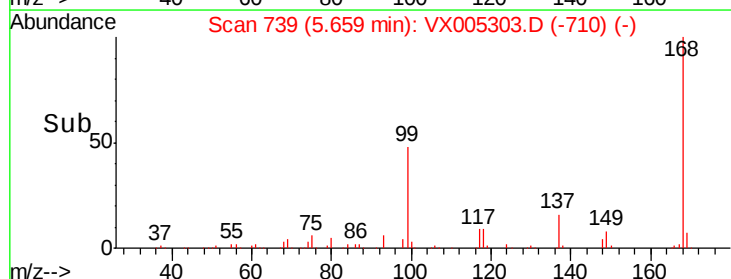
121 0.0 24.9 37.3#

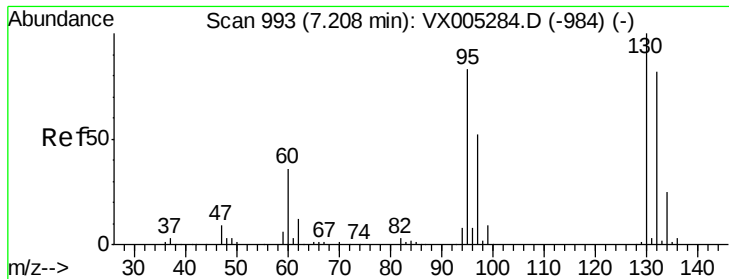


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

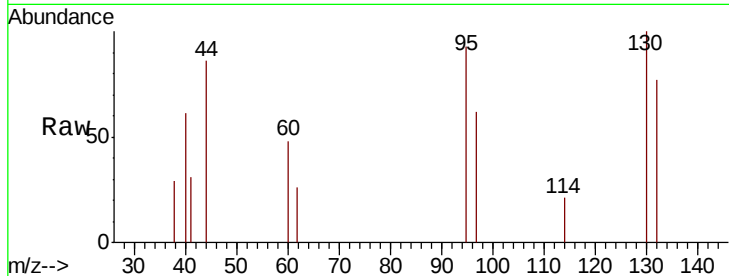
RAV-006-10-03-18

Tot Ion:130 Resp: 365

Ion Ratio Lower Upper

130 100

95 93.3 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

250

200

150

100

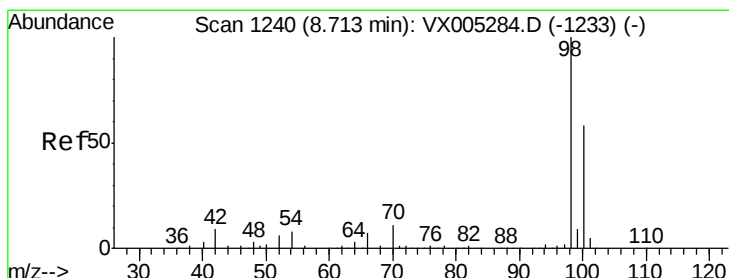
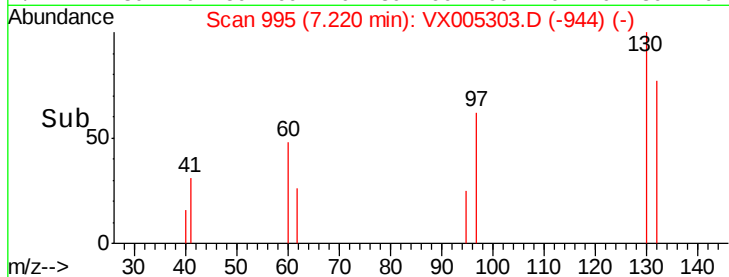
50

0

Time-->

7.20

7.25



#50

Toluene-d8

Concen: 52.247 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005303.D

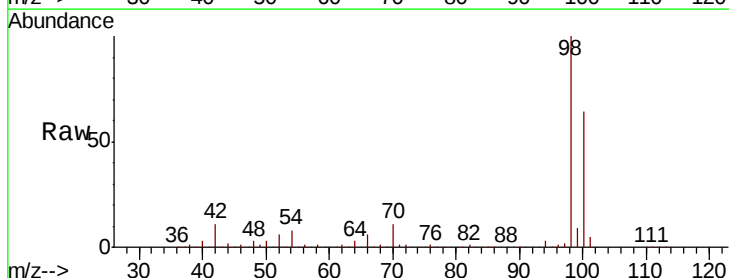
Acq: 12 Oct 2018 19:38

Tgt Ion: 98 Resp: 445999

Ion Ratio Lower Upper

98 100

100 63.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

250000

200000

150000

100000

50000

0

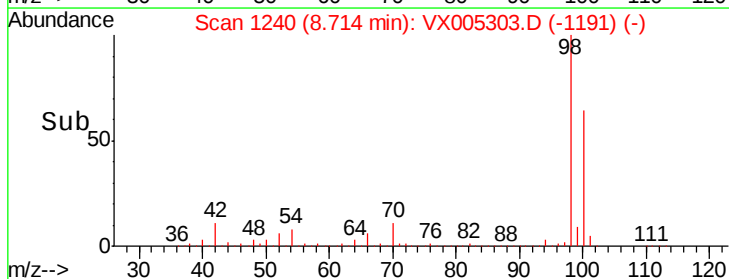
Time-->

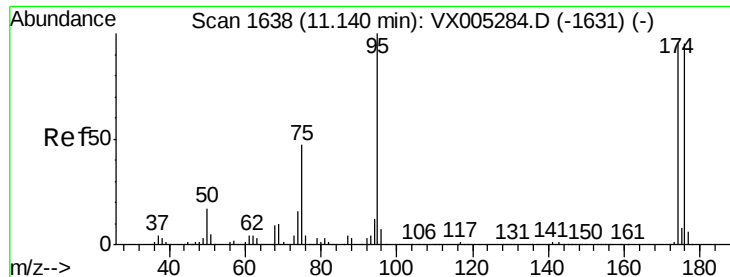
8.60

8.70

8.80

8.90





#62

4-Bromofluorobenzene

Concen: 44.659 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

RAV-006-10-03-18

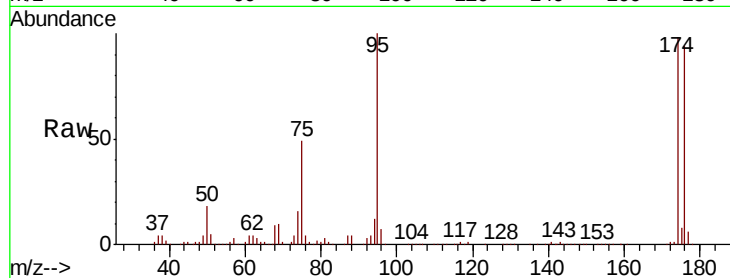
Tot Ion: 95 Resp: 143211

Ion Ratio Lower Upper

95 100

174 95.1 0.0 185.2

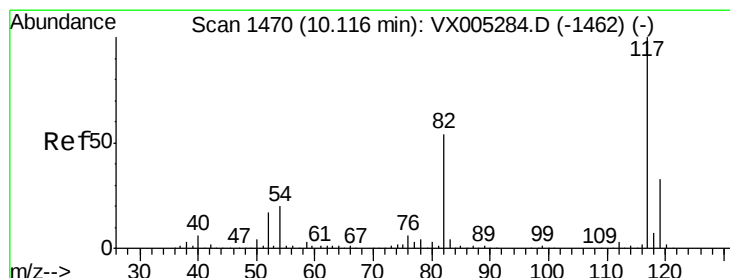
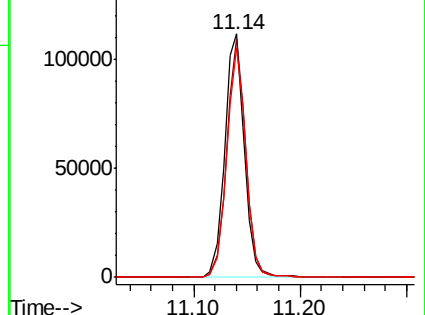
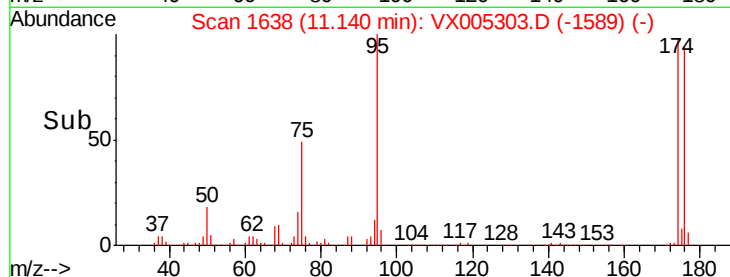
176 91.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005303.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005303.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005303.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

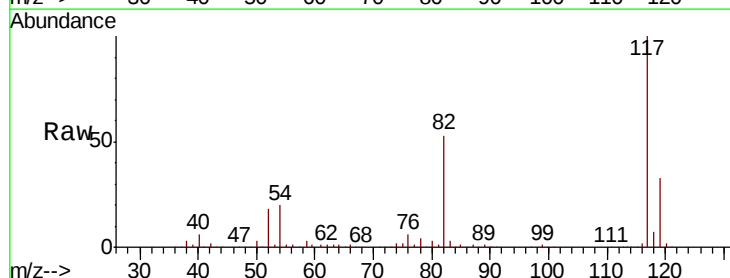
Tgt Ion: 117 Resp: 331593

Ion Ratio Lower Upper

117 100

82 53.4 47.8 71.6

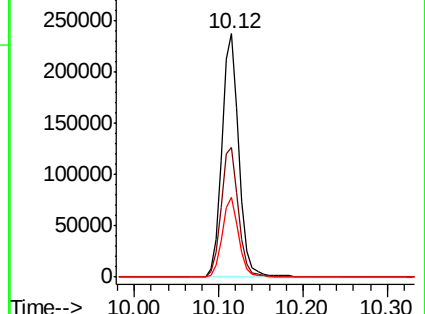
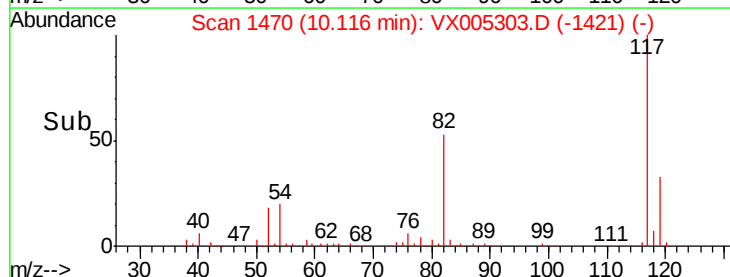
119 32.8 29.3 43.9

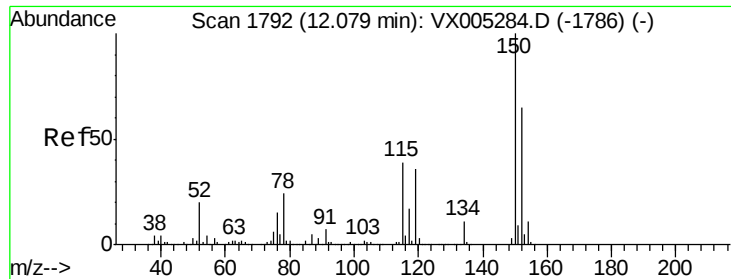


Abundance Ion 116.90 (116.60 to 117.60): VX005303.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005303.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005303.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

RAV-006-10-03-18

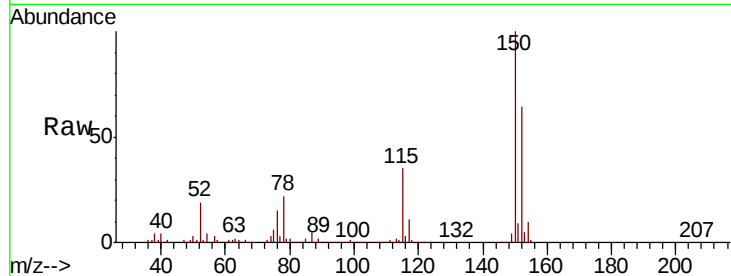
Tot Ion:152 Resp: 159275

Ion Ratio Lower Upper

152 100

115 54.4 39.0 117.0

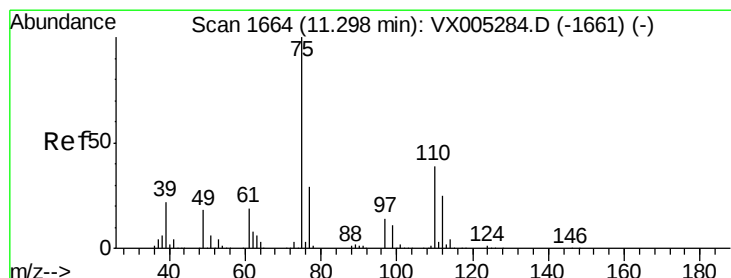
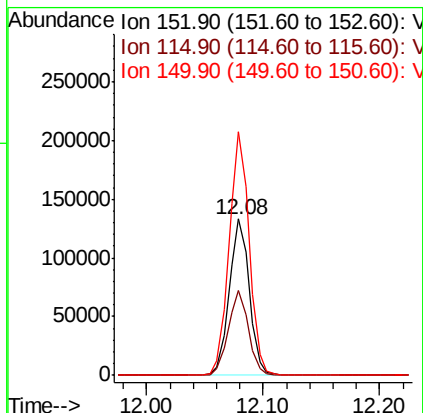
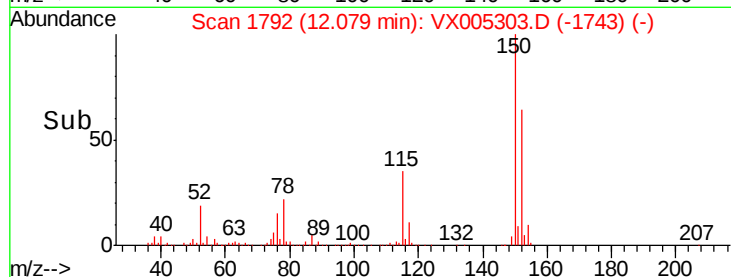
150 156.0 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 22.543 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005303.D

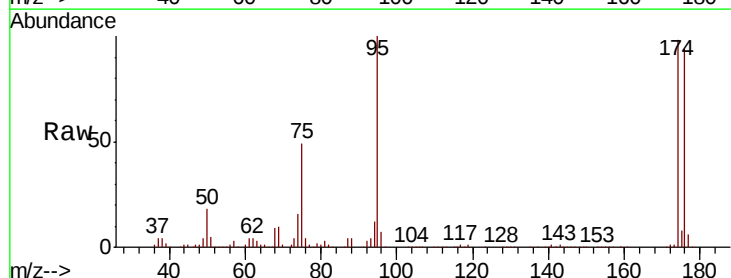
Acq: 12 Oct 2018 19:38

Tgt Ion: 75 Resp: 69647

Ion Ratio Lower Upper

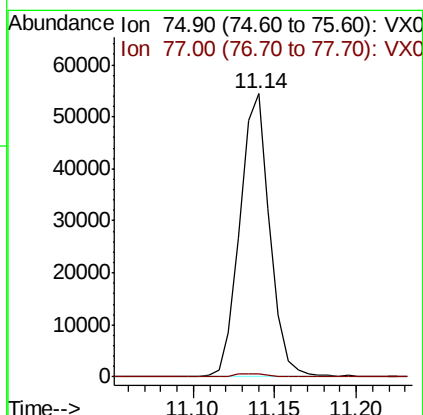
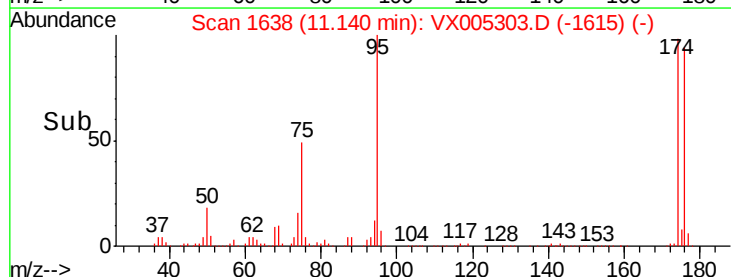
75 100

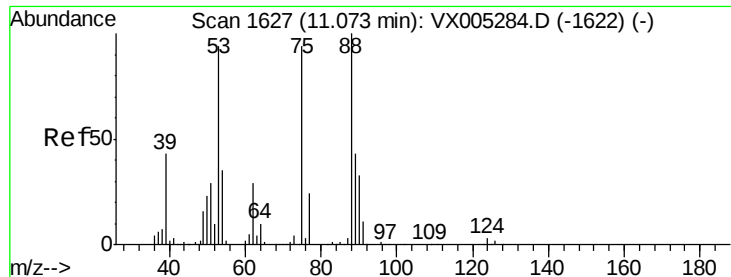
77 1.5 20.2 60.6#



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: 68.497 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005303.D

Acq: 12 Oct 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

RAV-006-10-03-18

Tot Ion: 75 Resp: 69647

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

