

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102918\
 Data File : VX005680.D
 Acq On : 30 Oct 2018 00:56
 Operator : JC/MD
 Sample : PB114242TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114242TB

Quant Time: Oct 30 04:50:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	387697	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188921	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	149249	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	
35) Dibromofluoromethane	5.51	113	124206	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	8.71	98	450675	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
62) 4-Bromofluorobenzene	11.14	95	150835	42.34	ug/l	0.00
Spiked Amount			Recovery	=	84.68%	

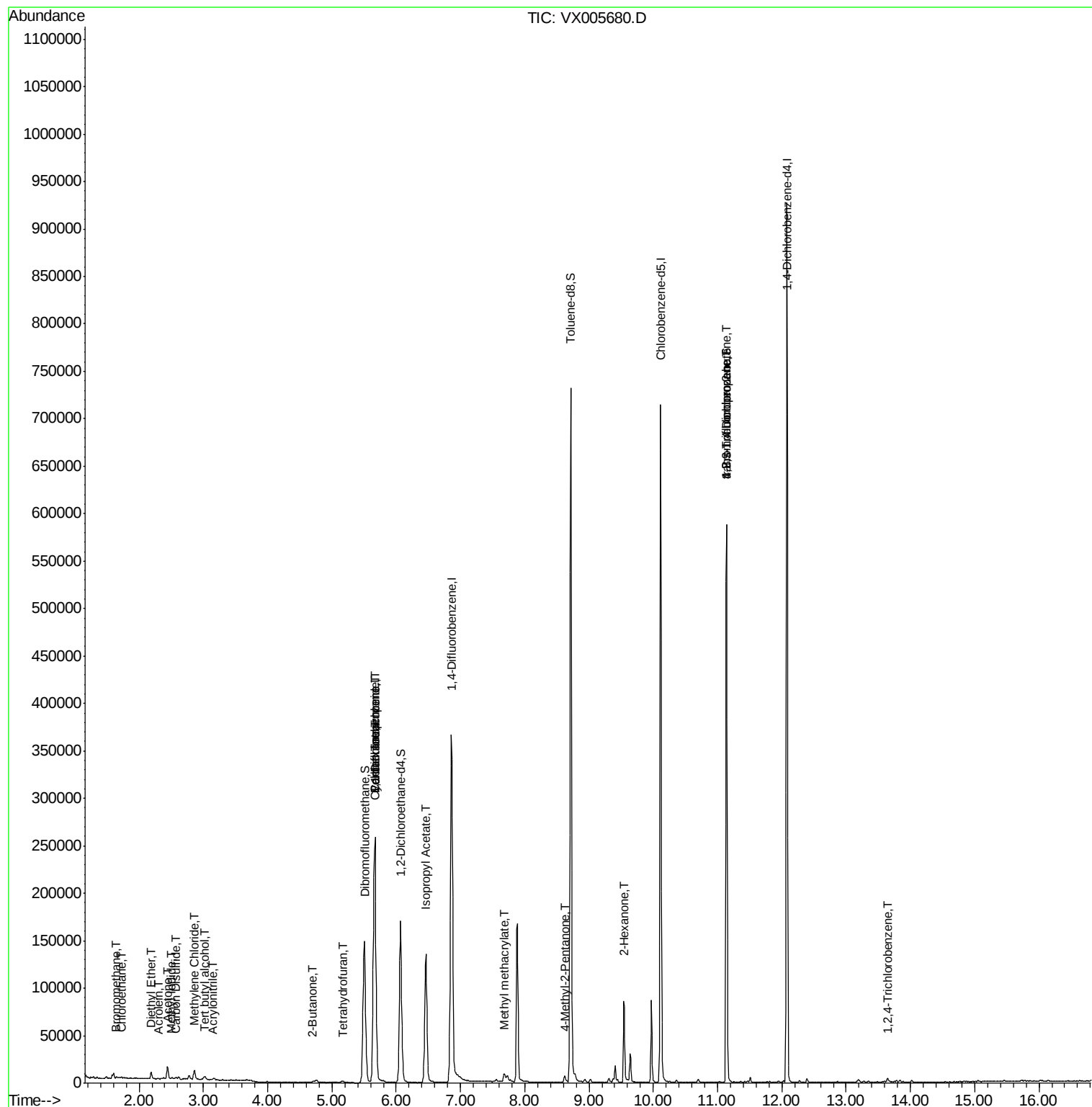
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	793	0.392	ug/l	99
6) Chloroethane	1.73	64	945	0.456	ug/l #	52
8) Diethyl Ether	2.19	74	2443	1.357	ug/l	96
10) Methyl Iodide	2.51	142	968	3.064	ug/l #	97
11) Tert butyl alcohol	3.01	59	2400	2.781	ug/l #	74
13) Acrolein	2.29	56	232	0.527	ug/l #	43
15) Acrylonitrile	3.14	53	584	0.302	ug/l #	81
16) Acetone	2.44	43	13253	7.820	ug/l	90
17) Carbon Disulfide	2.57	76	2120	0.282	ug/l	99
18) Methyl Acetate	2.78	43	5206	Below Cal		95
20) Methylene Chloride	2.86	84	4234	1.492	ug/l	84
25) 2-Butanone	4.70	43	1895	0.734	ug/l	91
29) Tetrahydrofuran	5.17	42	1212	0.722	ug/l	90
31) Cyclohexane	5.66	56	4943	1.143	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18133	4.819	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23277	5.874	ug/l #	15
43) Isopropyl Acetate	6.46	43	176532	24.537	ug/l	98
48) Methyl methacrylate	7.69	41	5950	1.698	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	3405	0.704	ug/l #	38
59) 2-Hexanone	9.54	43	10346	2.714	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	73988	18.484	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	73988	60.397	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.65	180	940	0.212	ug/l	97

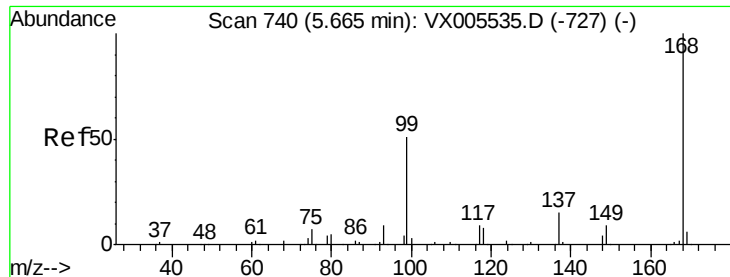
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102918\
Data File : VX005680.D
Acq On : 30 Oct 2018 00:56
Operator : JC/MD
Sample : PB114242TB
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampled :
PB114242TB

Quant Time: Oct 30 04:50:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 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: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

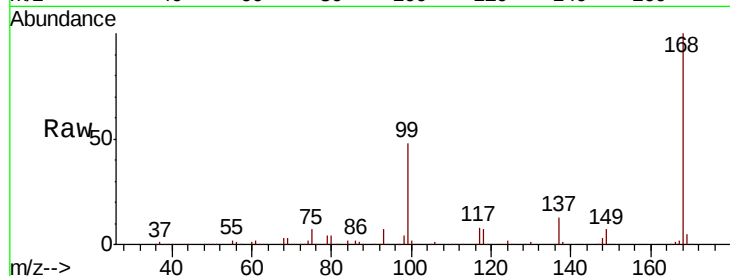
PB114242TB

Tot Ion:168 Resp: 262750

Ion Ratio Lower Upper

168 100

99 48.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

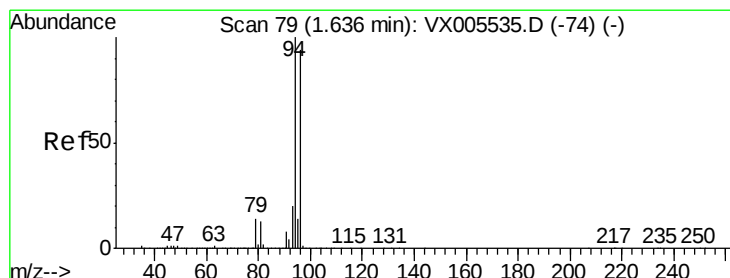
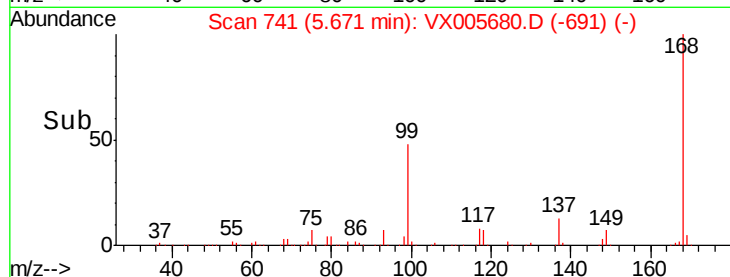
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.392 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005680.D

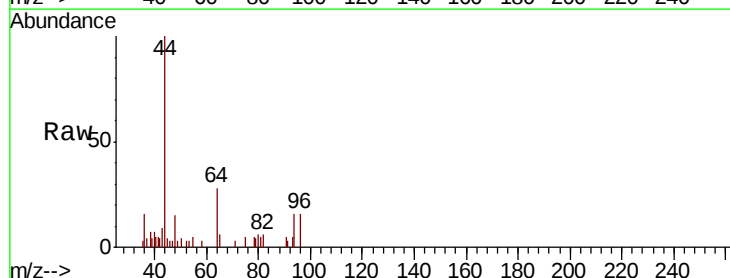
Acq: 30 Oct 2018 00:56

Tgt Ion: 94 Resp: 793

Ion Ratio Lower Upper

94 100

96 95.3 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

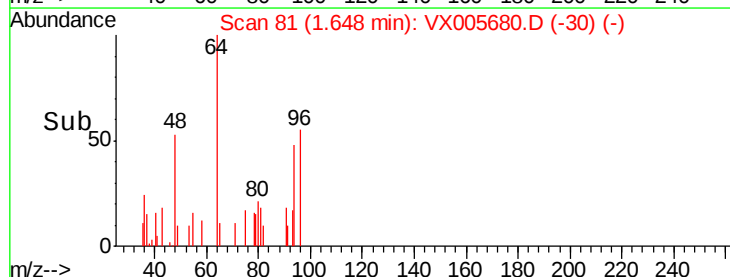
300

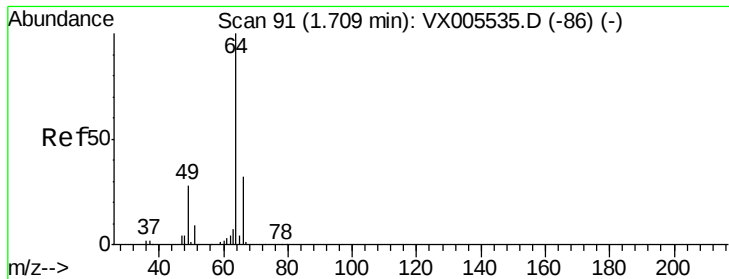
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.456 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampled :

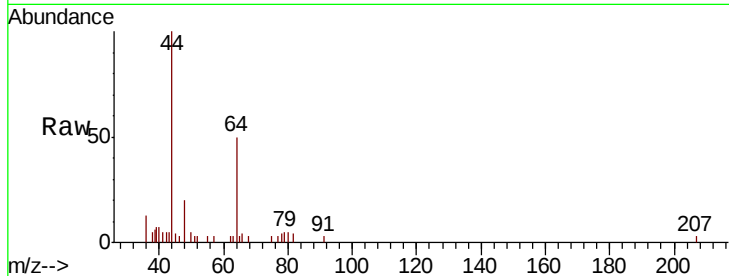
PB114242TB

Tot Ion: 64 Resp: 945

Ion Ratio Lower Upper

64 100

66 5.2 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

1000

800

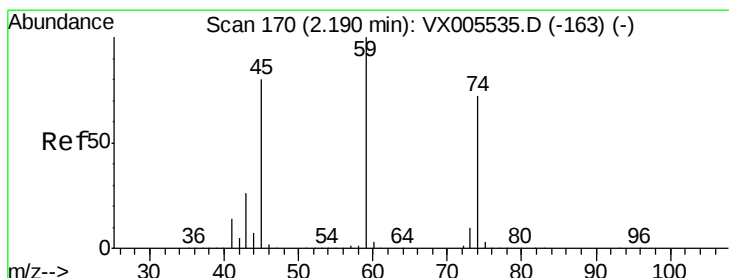
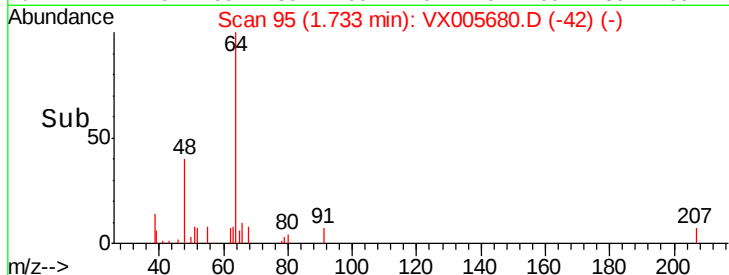
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: 1.357 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005680.D

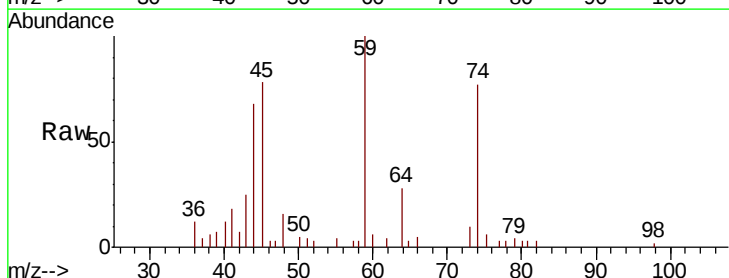
Acq: 30 Oct 2018 00:56

Tgt Ion: 74 Resp: 2443

Ion Ratio Lower Upper

74 100

45 104.5 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2000

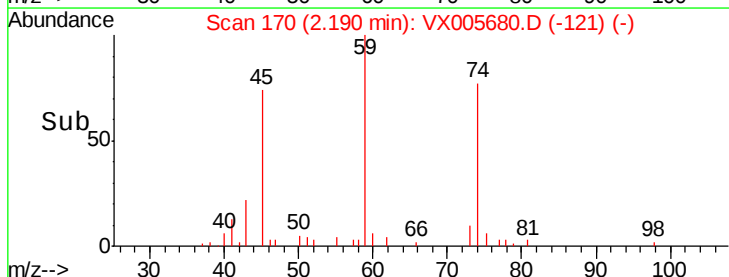
1500

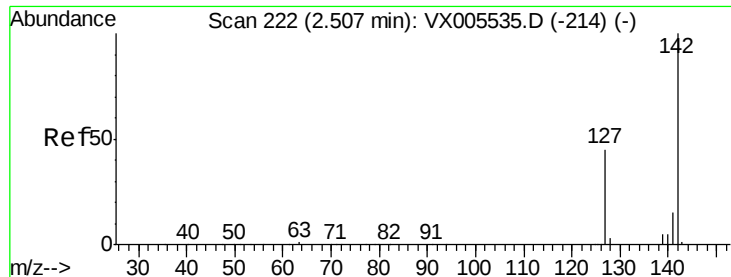
1000

500

0

Time-->

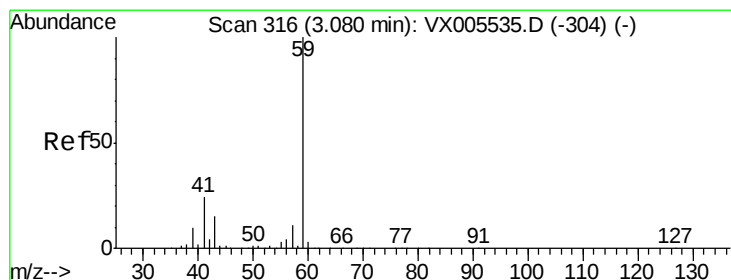
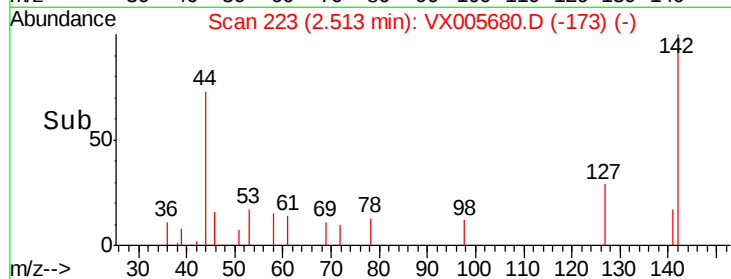
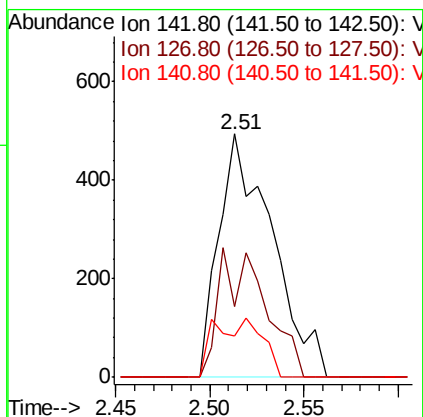
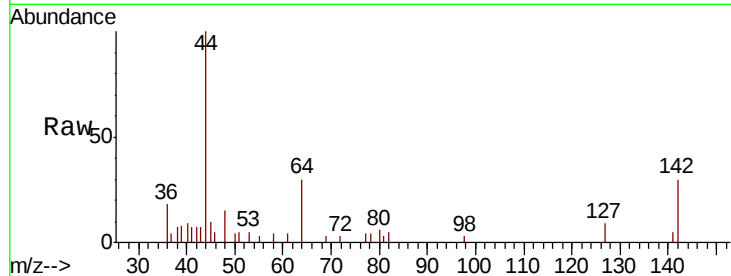




#10
Methyl Iodide
Concen: 3.064 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

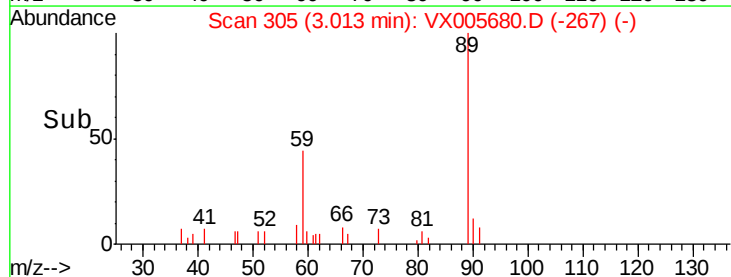
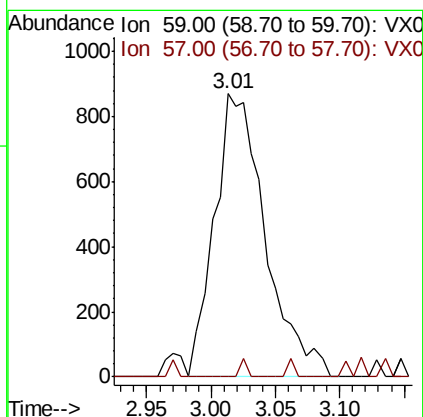
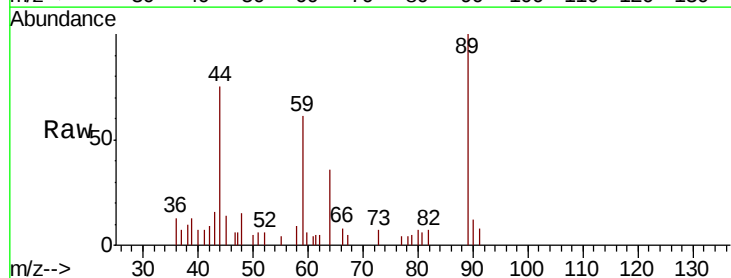
Instrument :
MSVOA_X
ClientSampleId :
PB114242TB

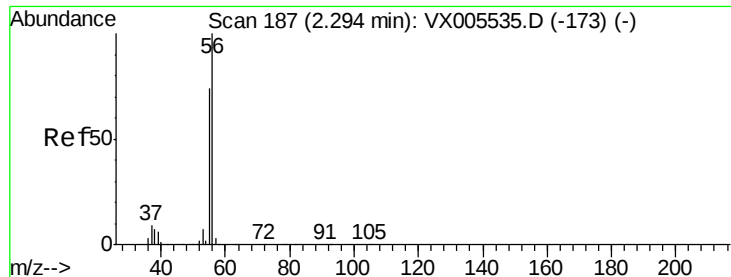
Tot Ion:142 Resp: 968
Ion Ratio Lower Upper
142 100
127 45.8 36.0 54.0
141 11.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 2.781 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.07 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Tgt Ion: 59 Resp: 2400
Ion Ratio Lower Upper
59 100
57 0.8 8.5 12.7#





#13

Acrolein

Concen: 0.527 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

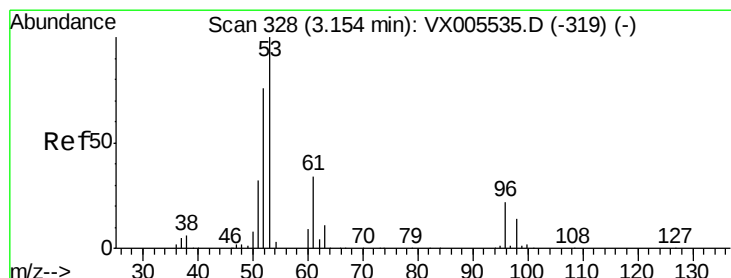
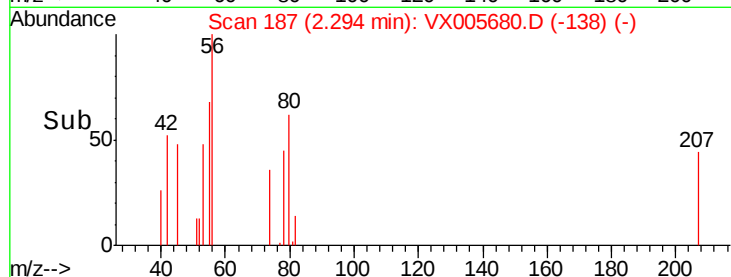
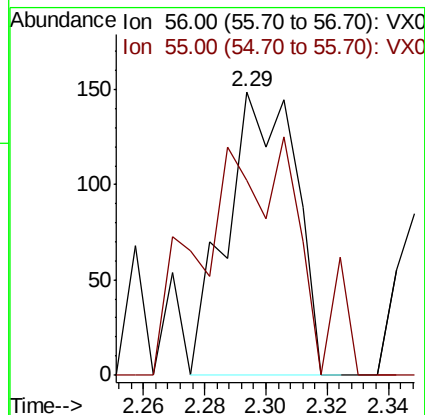
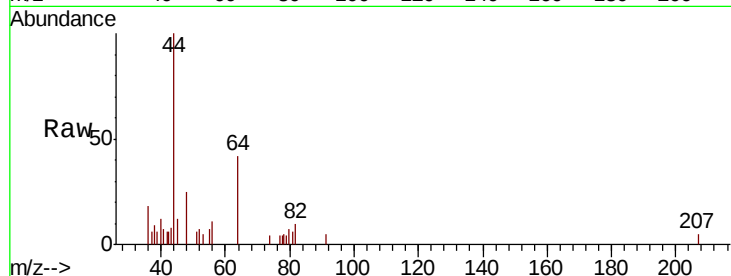
PB114242TB

Tot Ion: 56 Resp: 232

Ion Ratio Lower Upper

56 100

55 118.5 57.3 85.9#



#15

Acrylonitrile

Concen: 0.302 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

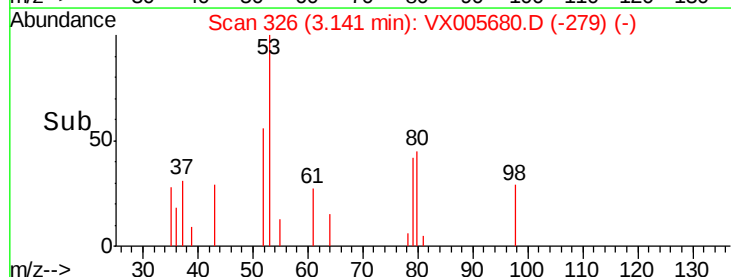
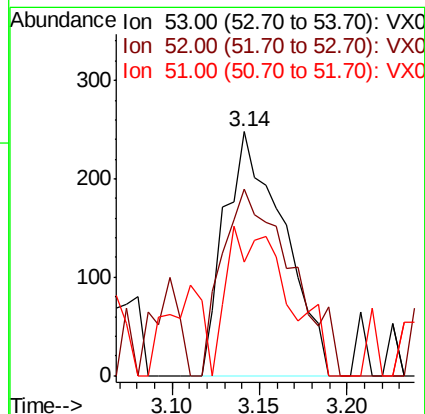
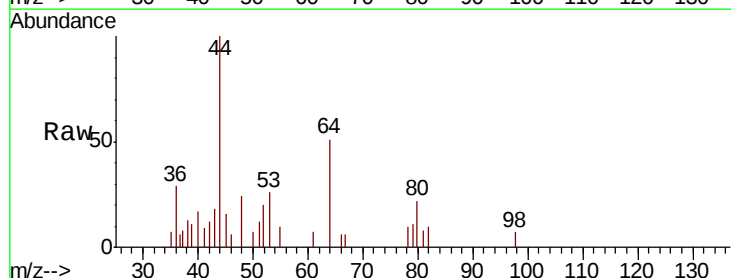
Tgt Ion: 53 Resp: 584

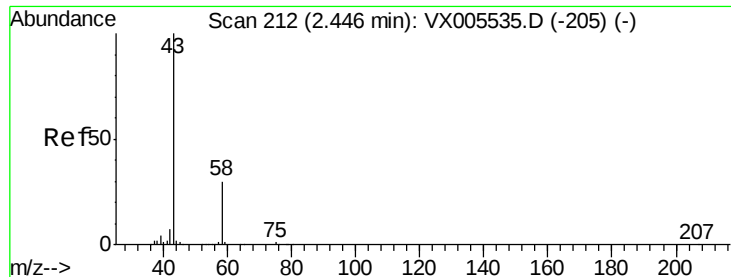
Ion Ratio Lower Upper

53 100

52 89.4 66.6 99.8

51 63.0 28.4 42.6#





#16

Acetone

Concen: 7.820 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

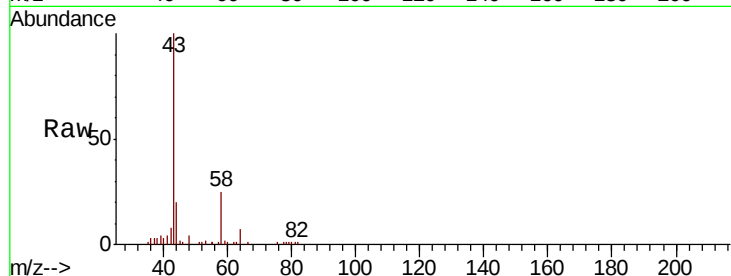
PB114242TB

Tot Ion: 43 Resp: 13253

Ion Ratio Lower Upper

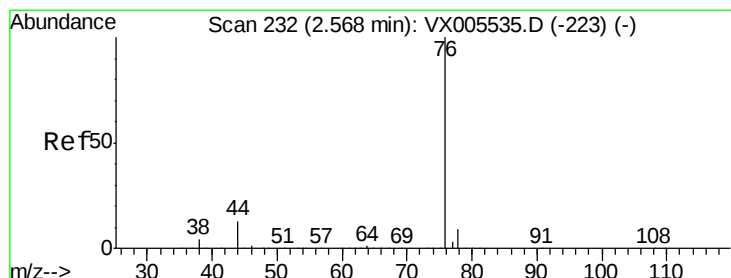
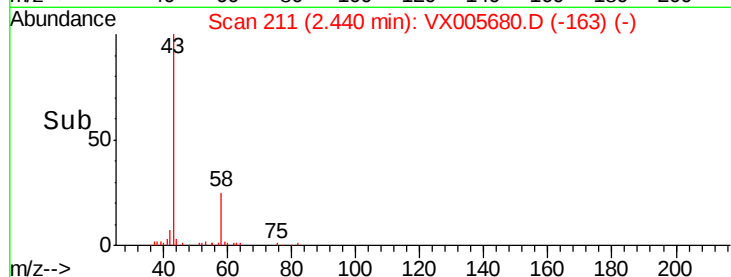
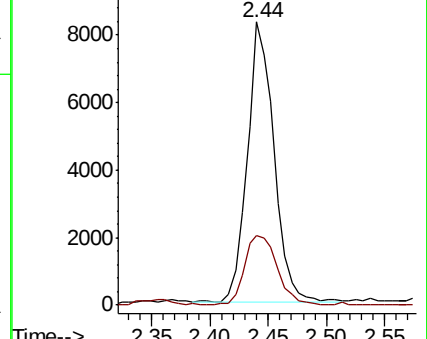
43 100

58 24.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.282 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005680.D

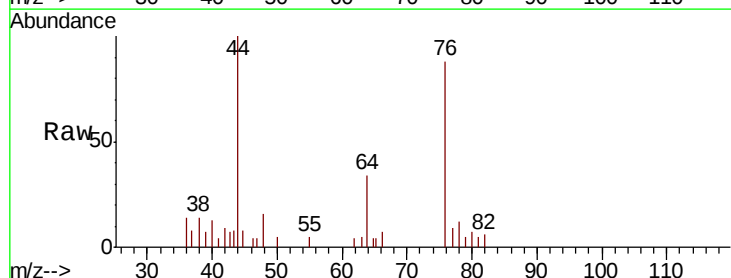
Acq: 30 Oct 2018 00:56

Tgt Ion: 76 Resp: 2120

Ion Ratio Lower Upper

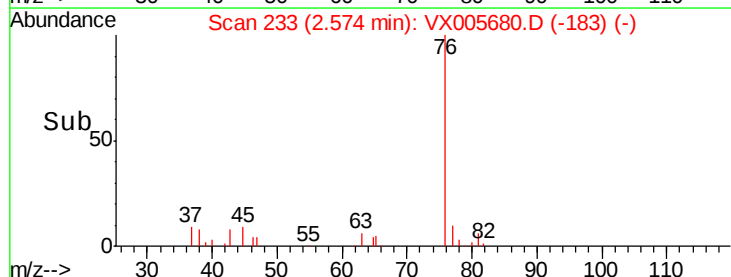
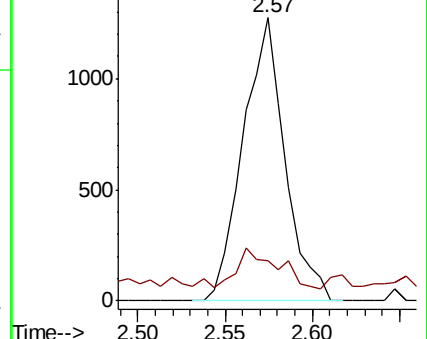
76 100

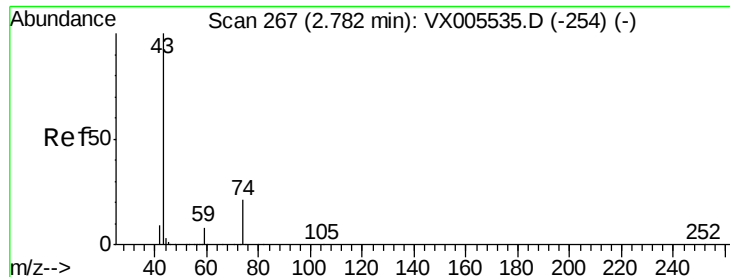
78 8.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

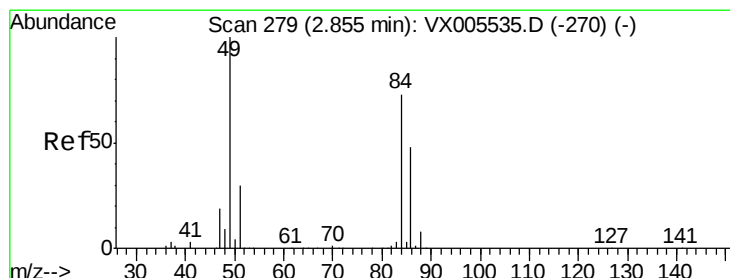
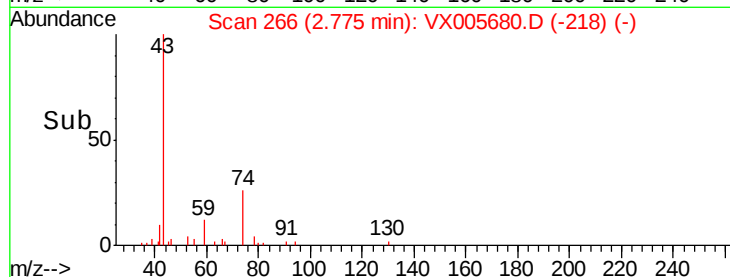
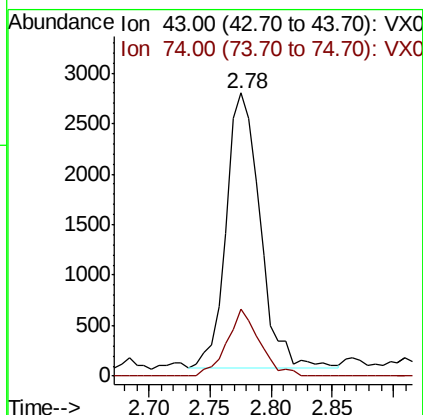
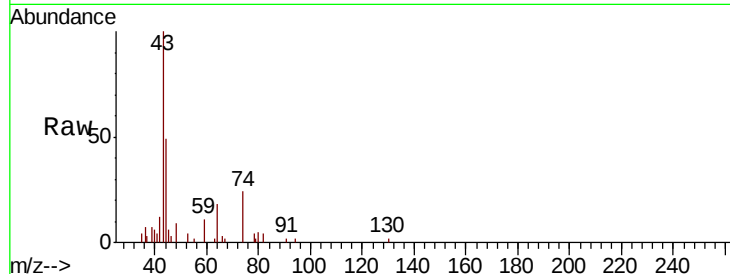




#18
Methvl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

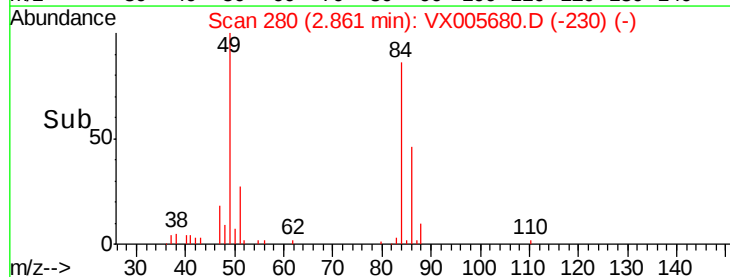
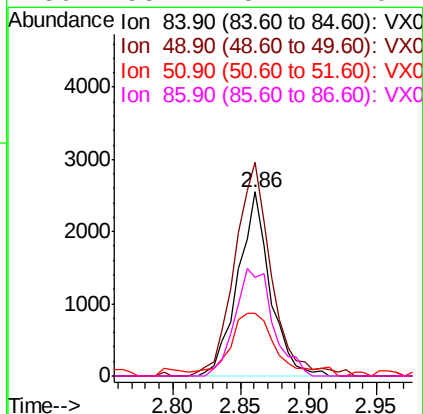
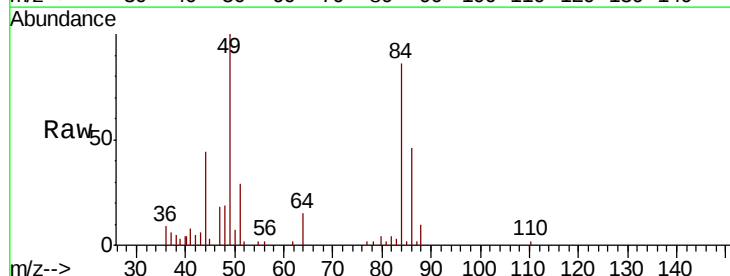
Instrument :
MSVOA_X
ClientSampleId :
PB114242TB

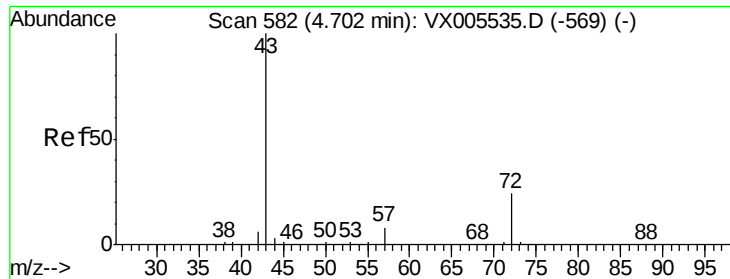
Tot Ion: 43 Resp: 5206
Ion Ratio Lower Upper
43 100
74 23.5 16.8 25.2



#20
Methylene Chloride
Concen: 1.492 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Tgt Ion: 84 Resp: 4234
Ion Ratio Lower Upper
84 100
49 116.0 109.5 164.3
51 33.8 33.3 49.9
86 53.4 52.7 79.1





#25

2-Butanone

Concen: 0.734 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

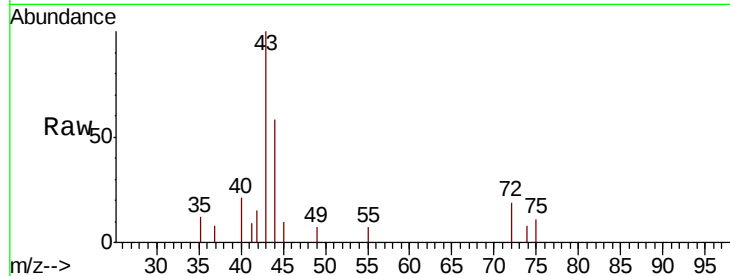
PB114242TB

Tot Ion: 43 Resp: 1895

Ion Ratio Lower Upper

43 100

72 19.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

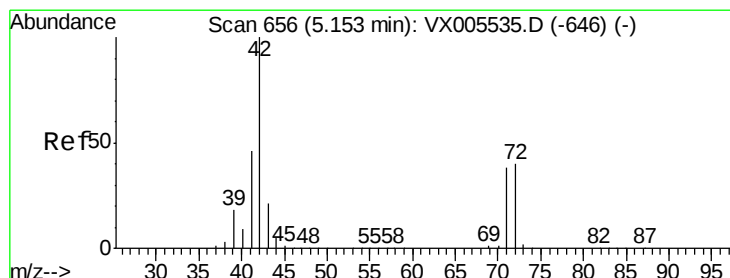
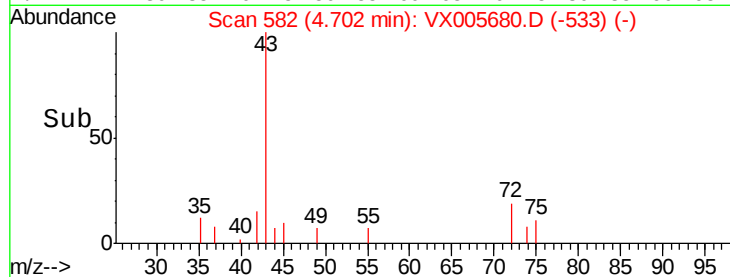
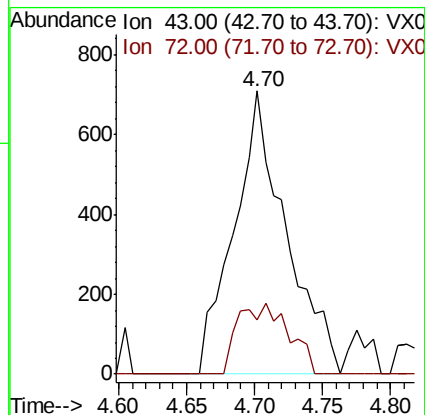
600

400

200

0

4.60 4.65 4.70 4.75 4.80



#29

Tetrahydrofuran

Concen: 0.722 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

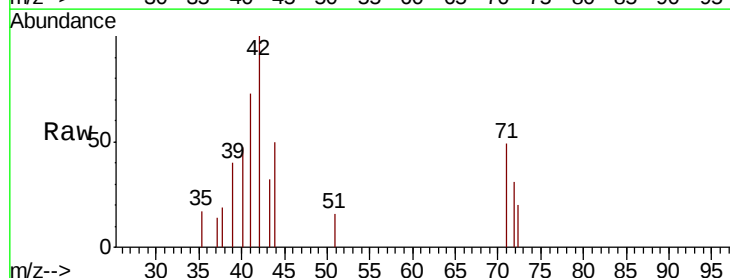
Tgt Ion: 42 Resp: 1212

Ion Ratio Lower Upper

42 100

72 32.3 32.0 48.0

71 41.5 29.8 44.8



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

400

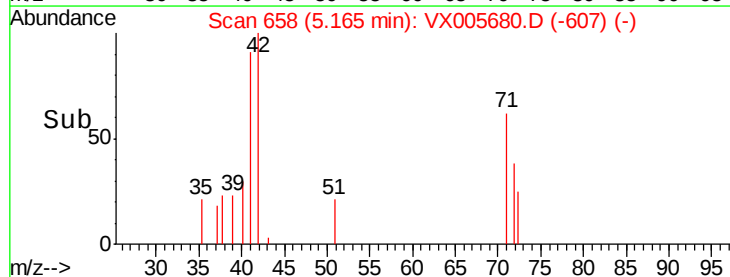
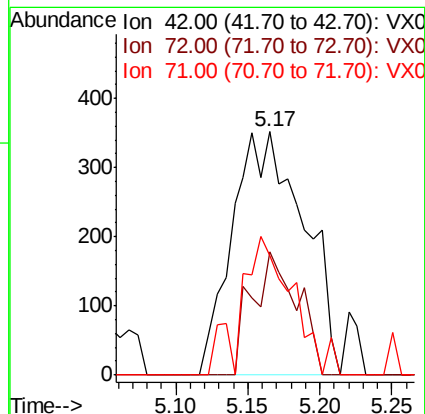
300

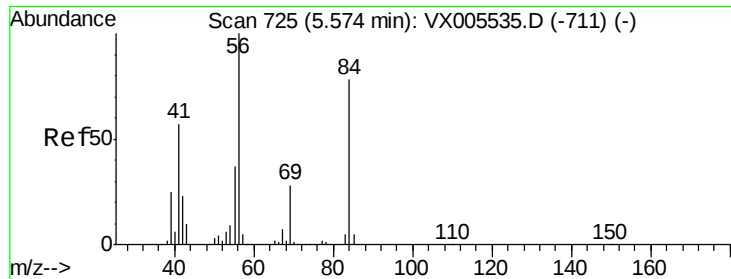
200

100

0

5.10 5.15 5.20 5.25

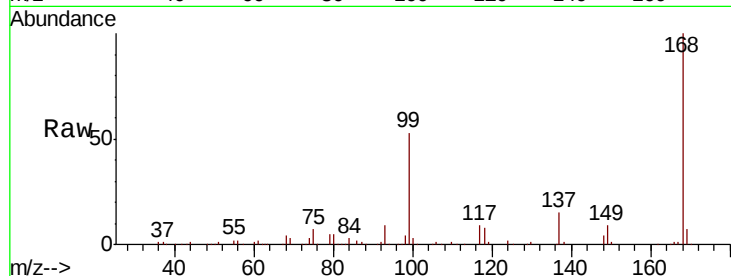




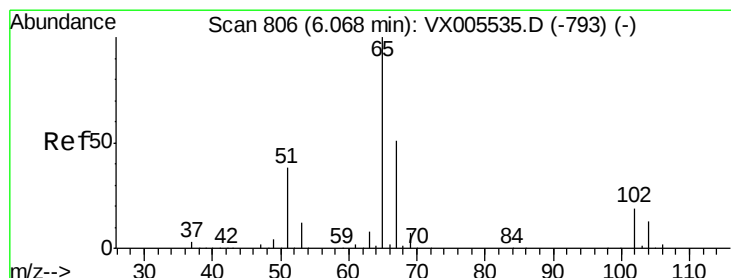
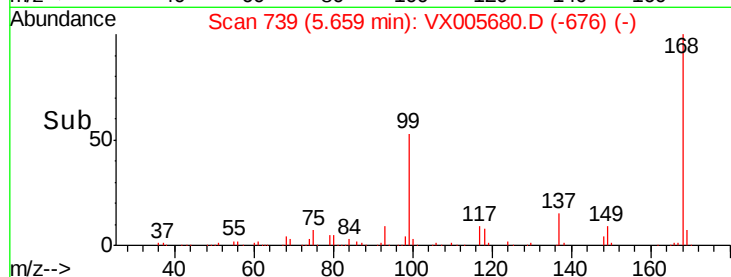
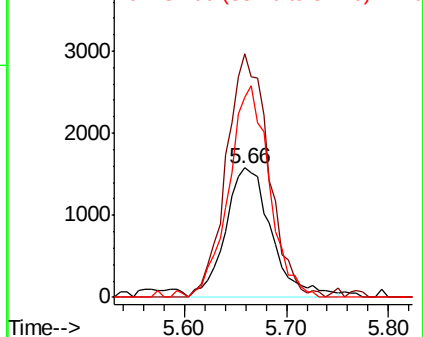
#31
Cyclohexane
Concen: 1.143 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Instrument :
MSVOA_X
ClientSampleId :
PB114242TB

Tot Ion: 56 Resp: 4943
Ion Ratio Lower Upper
56 100
69 188.6 22.6 34.0#
84 154.6 62.7 94.1#

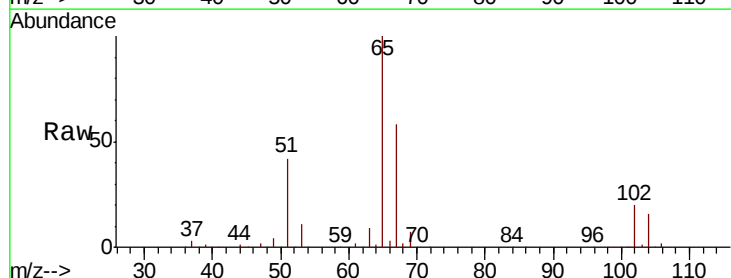


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

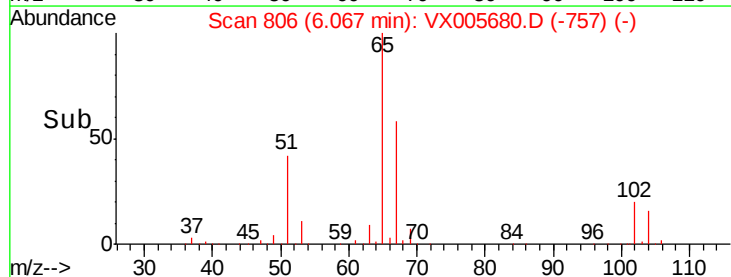
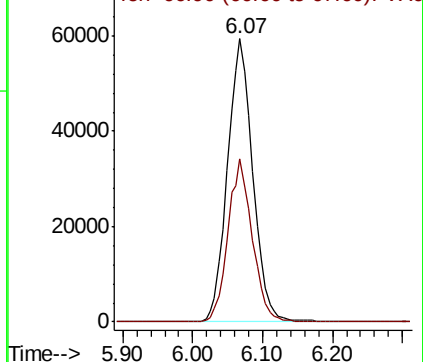


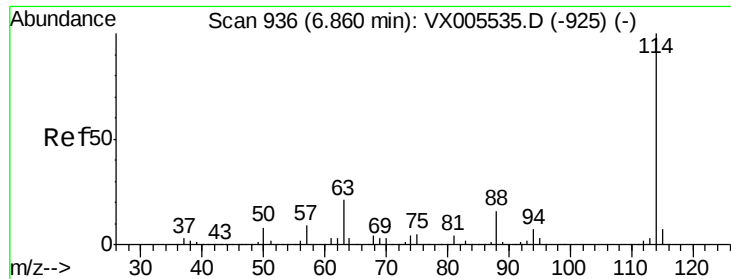
#33
1,2-Dichloroethane-d4
Concen: 46.533 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Tgt Ion: 65 Resp: 149249
Ion Ratio Lower Upper
65 100
67 55.0 0.0 105.0



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

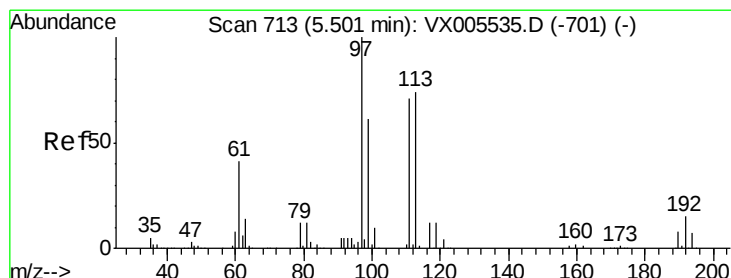
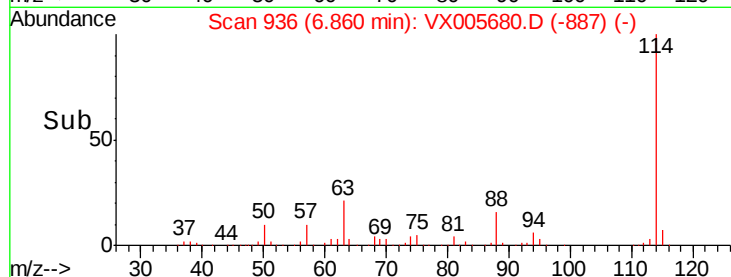
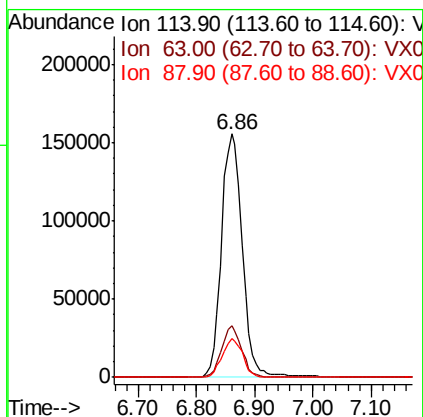
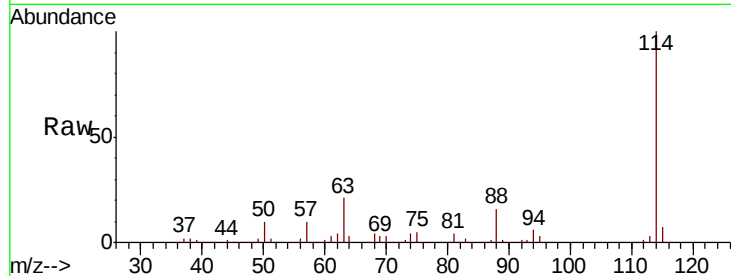




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005680.D
 Acq: 30 Oct 2018 00:56

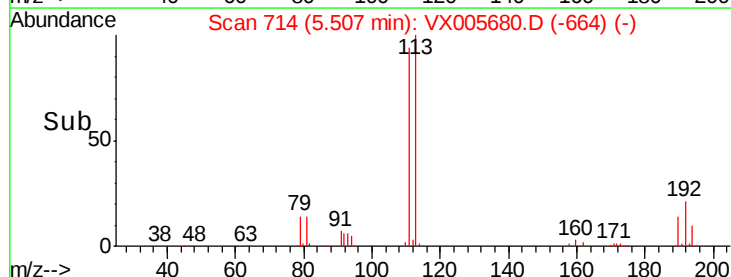
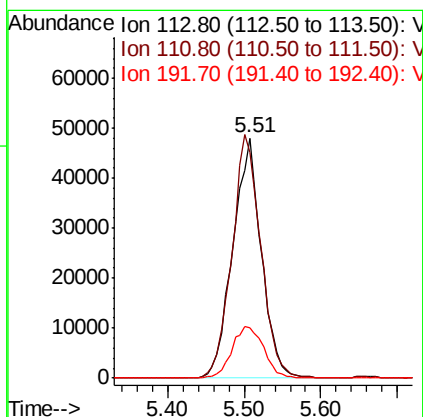
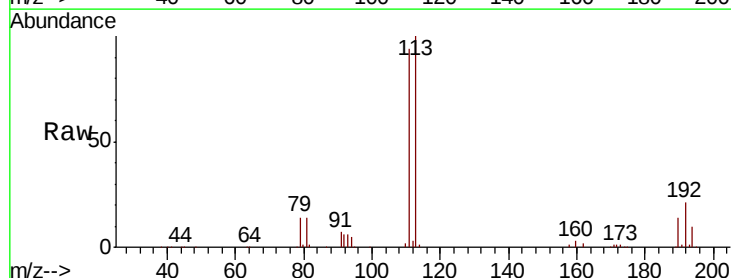
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114242TB

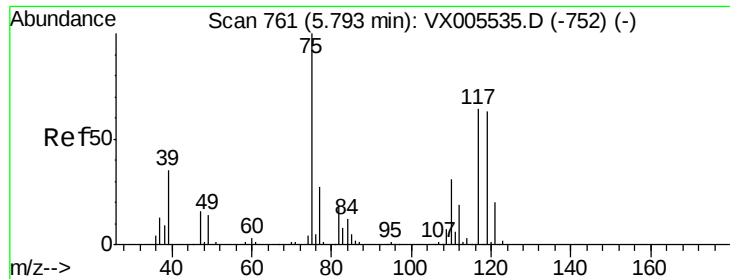
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.8
88	15.8	0.0	31.2



#35
 Dibromofluoromethane
 Concen: 47.314 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005680.D
 Acq: 30 Oct 2018 00:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.3	123.5
192	23.9	17.9	26.9





#36

1,1-Dichloropropene

Concen: 4.819 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

PB114242TB

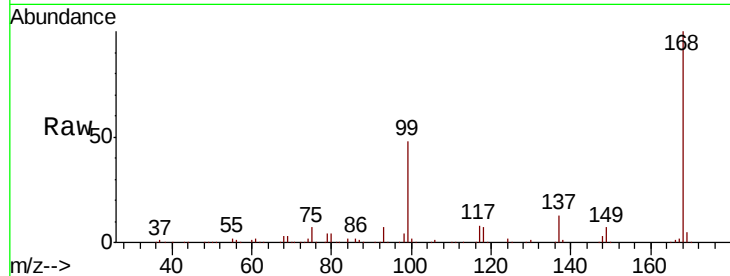
Tot Ion: 75 Resp: 18133

Ion Ratio Lower Upper

75 100

110 8.9 17.4 52.2#

77 0.0 25.8 38.6#

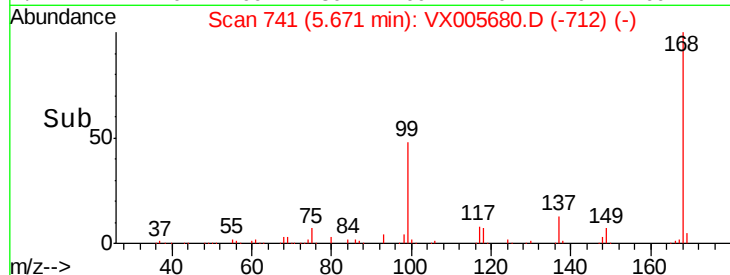


Abundance Ion 74.90 (74.60 to 75.60): VX005535.D (-752) (-)

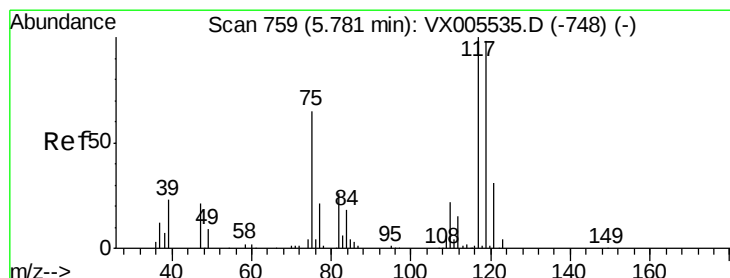
Ion 109.90 (109.60 to 110.60): VX005535.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX005535.D (-752) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.874 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

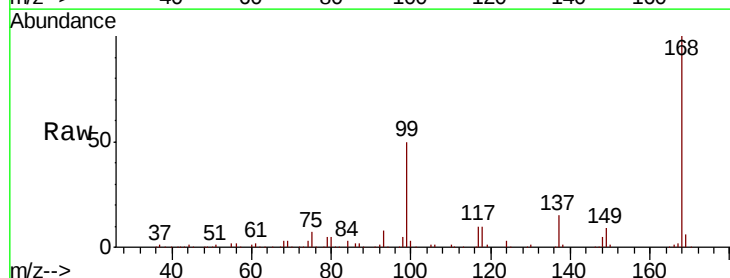
Tgt Ion: 117 Resp: 23277

Ion Ratio Lower Upper

117 100

119 5.3 78.1 117.1#

121 0.0 24.6 36.8#

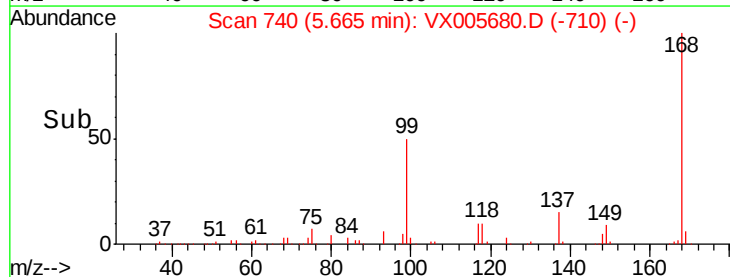


Abundance Ion 116.80 (116.50 to 117.50): VX005535.D (-748) (-)

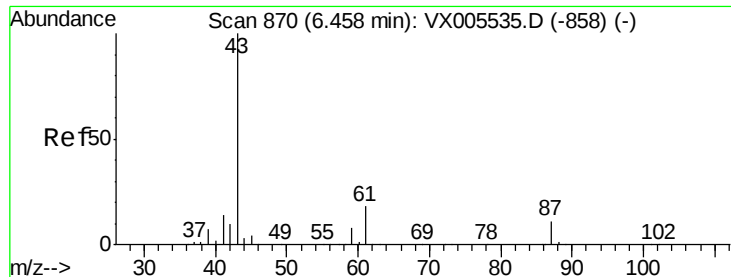
Ion 118.80 (118.50 to 119.50): VX005535.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX005535.D (-748) (-)

Time-->



Time-->



#43

Isopropyl Acetate

Concen: 24.537 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

PB114242TB

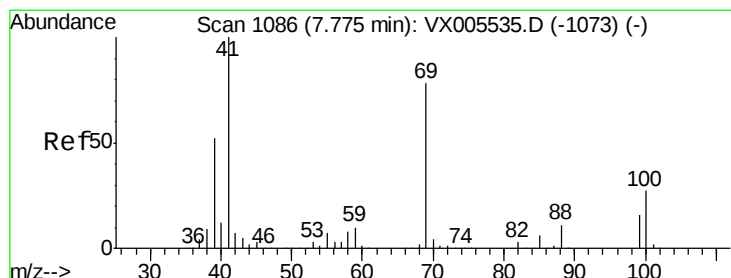
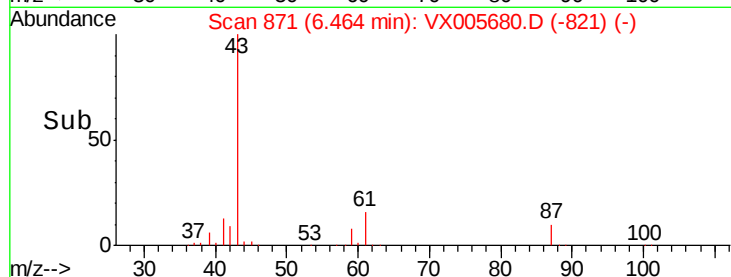
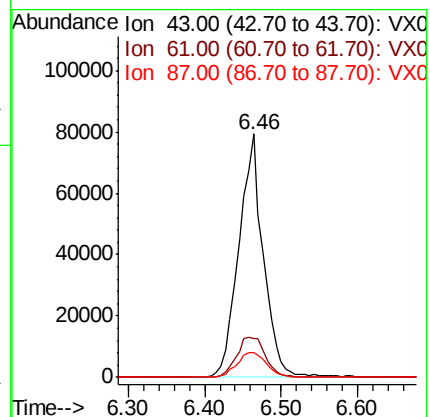
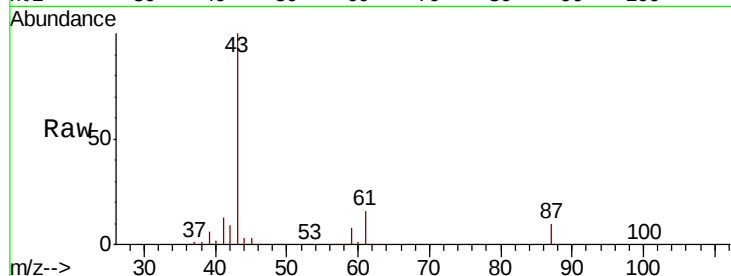
Tot Ion: 43 Resp: 176532

Ion Ratio Lower Upper

43 100

61 19.4 14.6 22.0

87 12.4 9.6 14.4



#48

Methyl methacrylate

Concen: 1.698 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

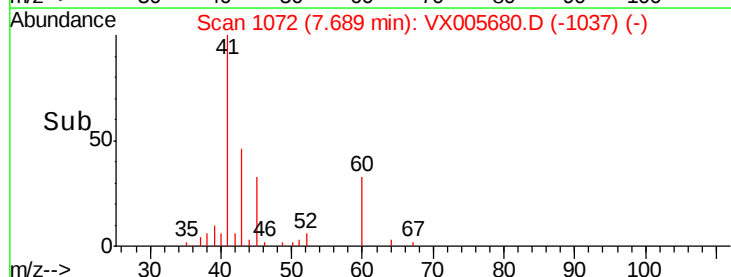
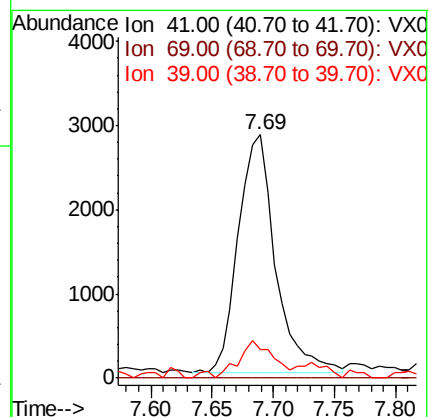
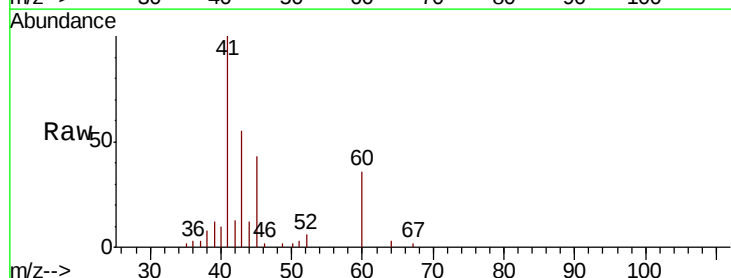
Tgt Ion: 41 Resp: 5950

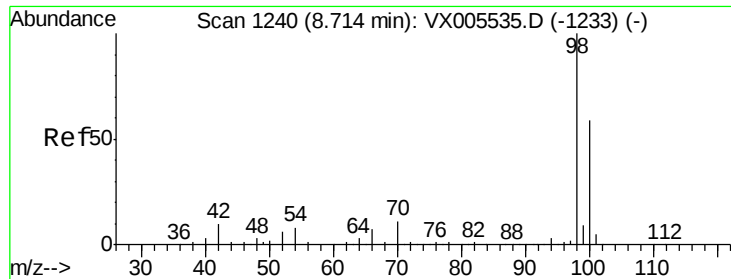
Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

39 15.1 42.2 63.2#





#50

Toluene-d8

Concen: 47.778 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

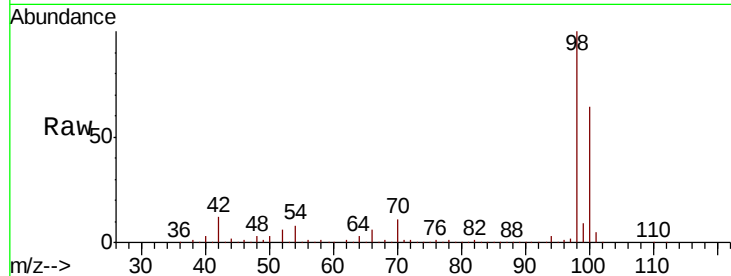
PB114242TB

Tot Ion: 98 Resp: 450675

Ion Ratio Lower Upper

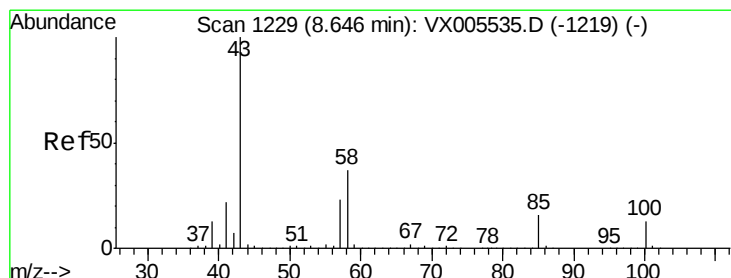
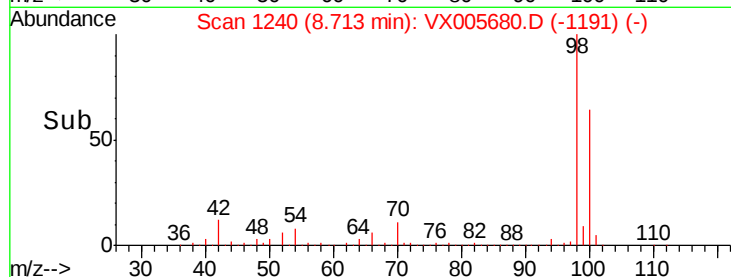
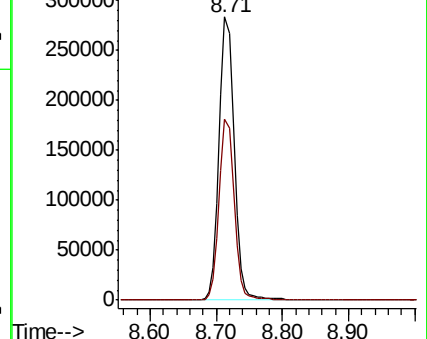
98 100

100 63.6 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.704 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005680.D

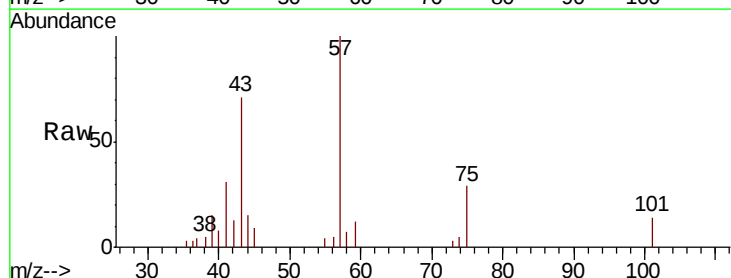
Acq: 30 Oct 2018 00:56

Tgt Ion: 43 Resp: 3405

Ion Ratio Lower Upper

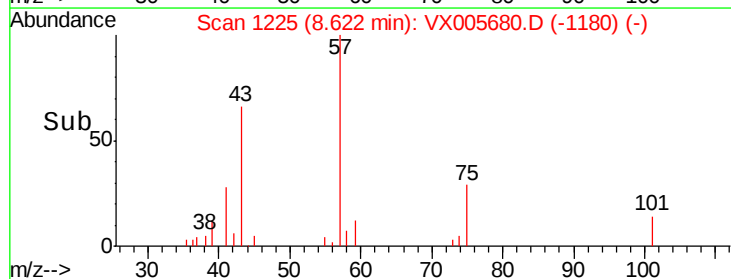
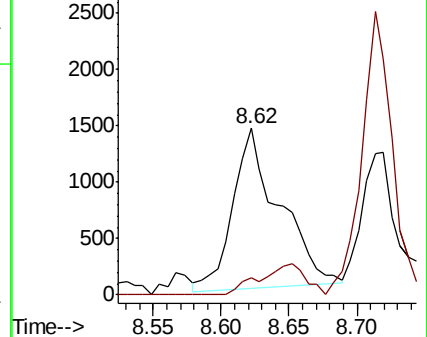
43 100

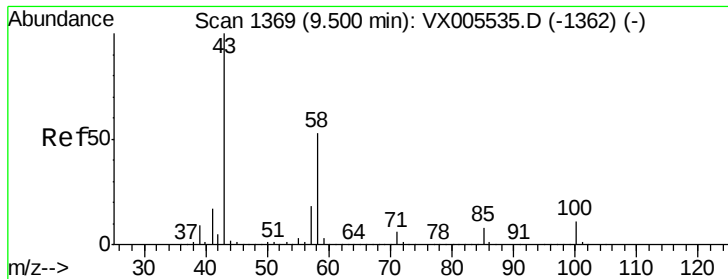
58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

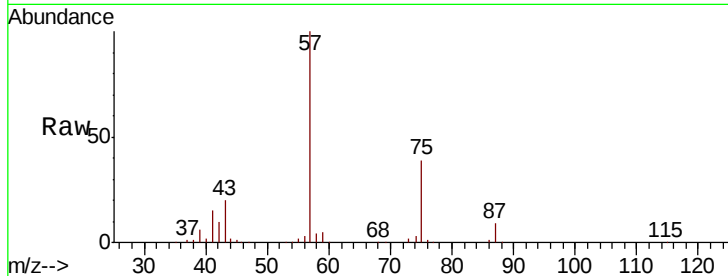




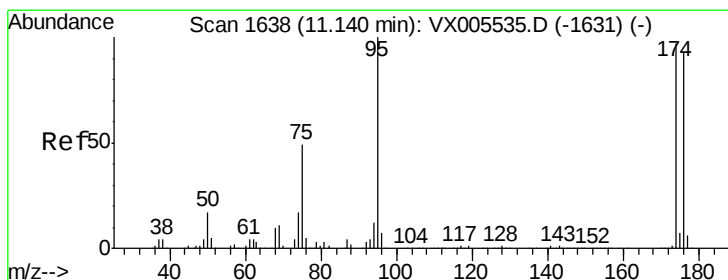
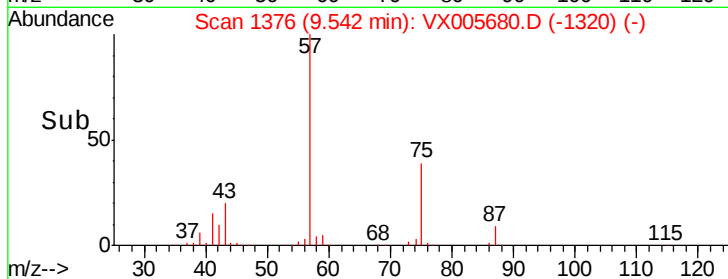
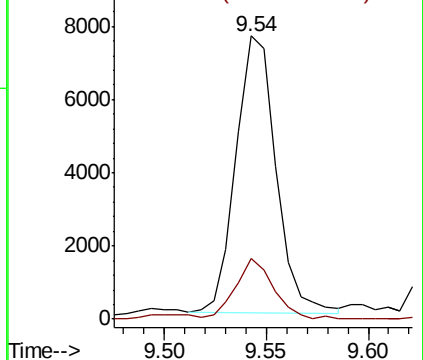
#59
2-Hexanone
Concen: 2.714 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Instrument :
MSVOA_X
ClientSampleId :
PB114242TB

Tot Ion: 43 Resp: 10346
Ion Ratio Lower Upper
43 100
58 20.8 25.9 77.8#

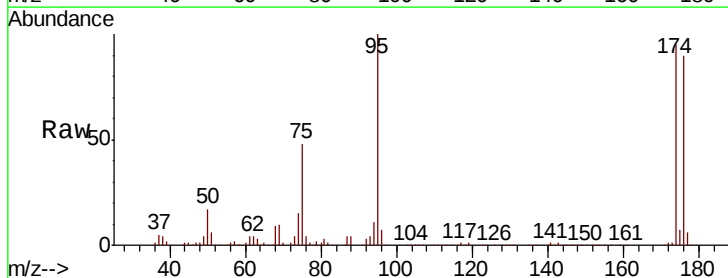


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

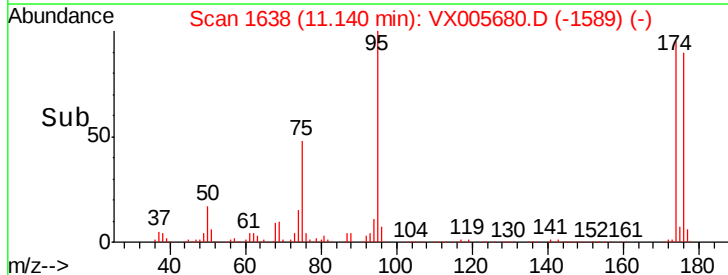
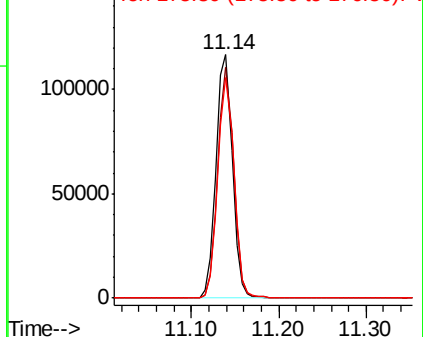


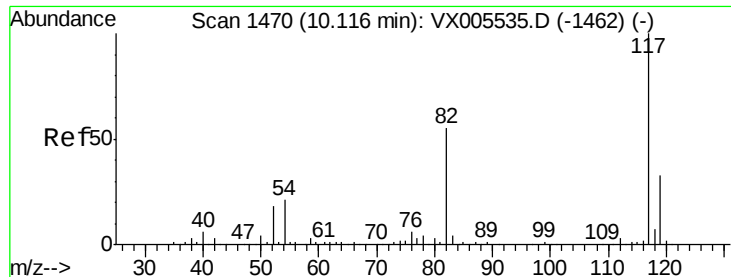
#62
4-Bromofluorobenzene
Concen: 42.343 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Tgt Ion: 95 Resp: 150835
Ion Ratio Lower Upper
95 100
174 92.5 0.0 184.4
176 89.9 0.0 177.4



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

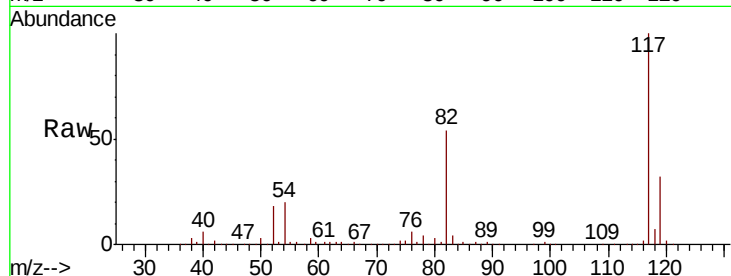




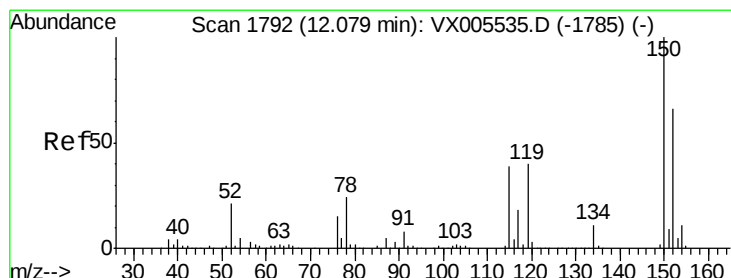
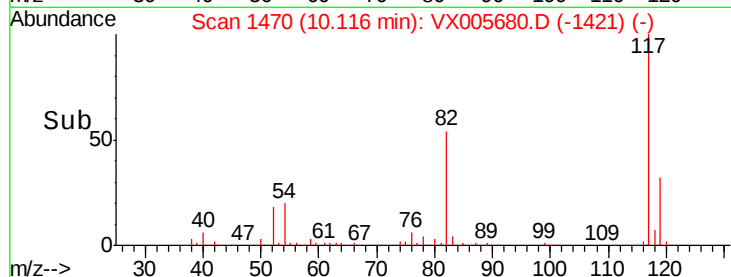
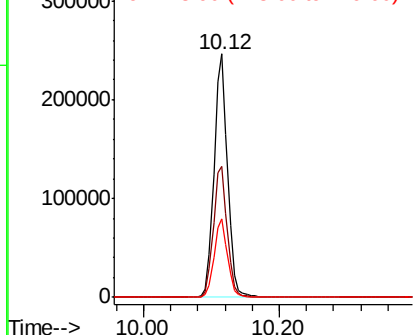
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Instrument :
MSVOA_X
ClientSampleId :
PB114242TB

Tot Ion:117 Resp: 338077
Ion Ratio Lower Upper
117 100
82 53.7 44.1 66.1
119 32.2 26.2 39.2

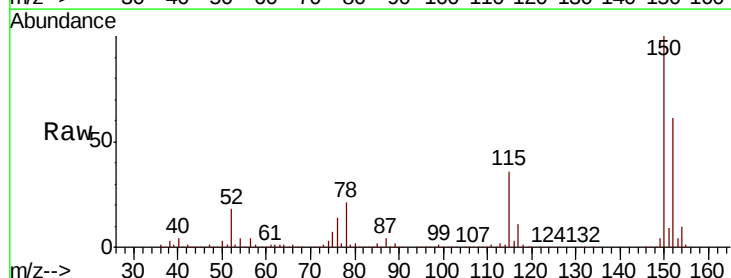


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

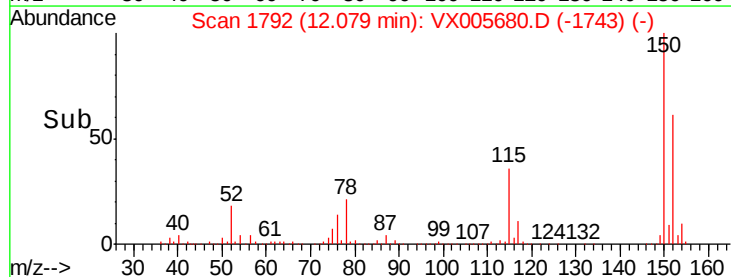
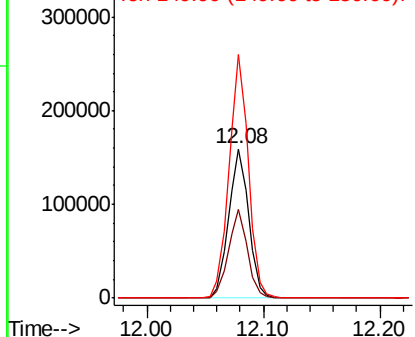


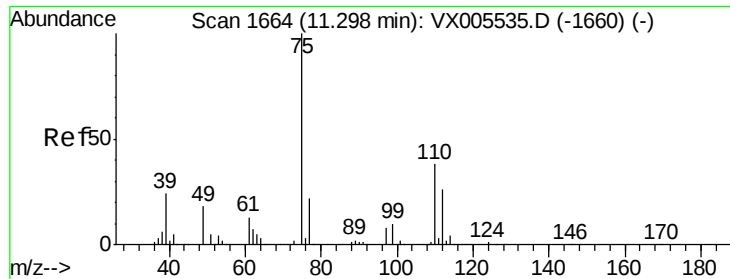
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005680.D
Acq: 30 Oct 2018 00:56

Tgt Ion:152 Resp: 188921
Ion Ratio Lower Upper
152 100
115 56.2 39.4 118.1
150 158.4 0.0 346.4



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: 18.484 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampled :

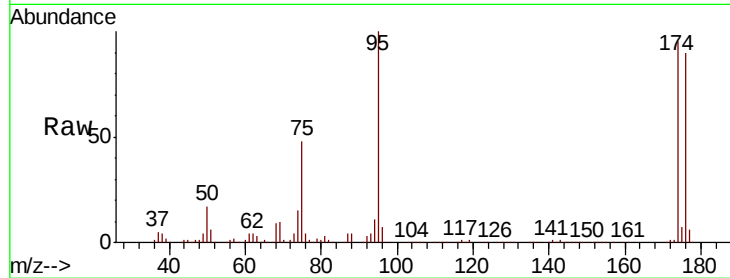
PB114242TB

Tot Ion: 75 Resp: 73988

Ion Ratio Lower Upper

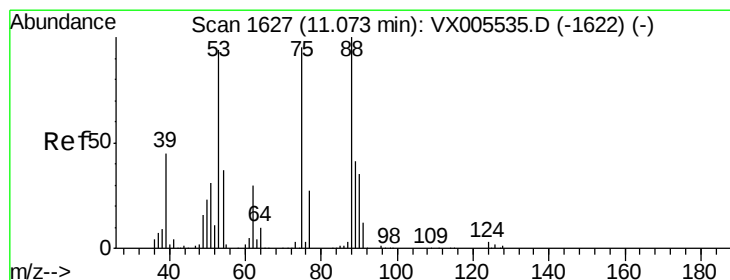
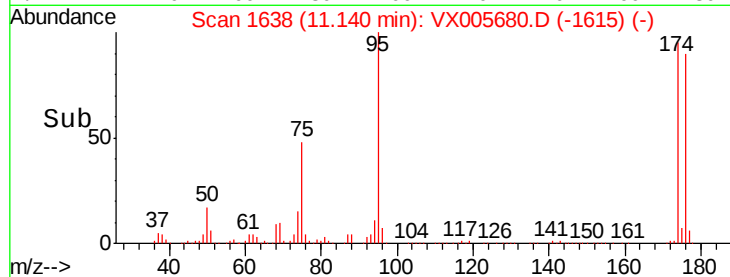
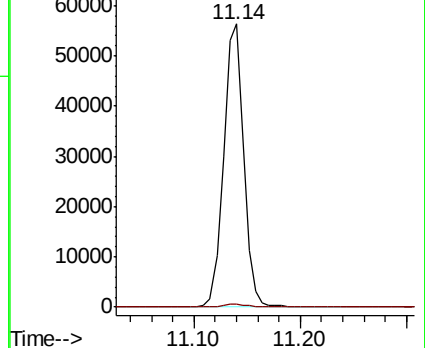
75 100

77 1.2 20.5 61.6#



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: 60.397 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

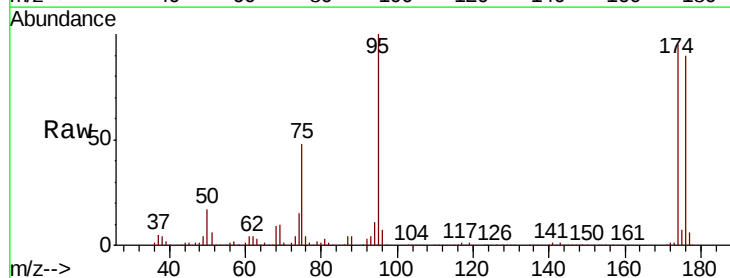
Tgt Ion: 75 Resp: 73988

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

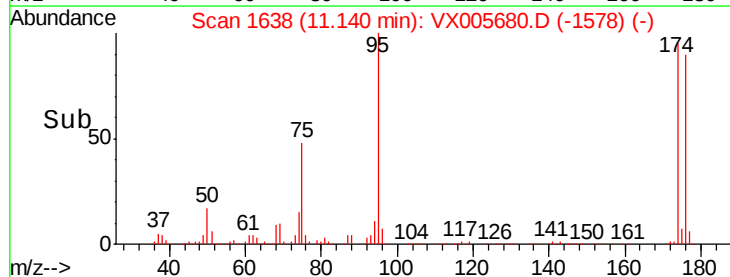
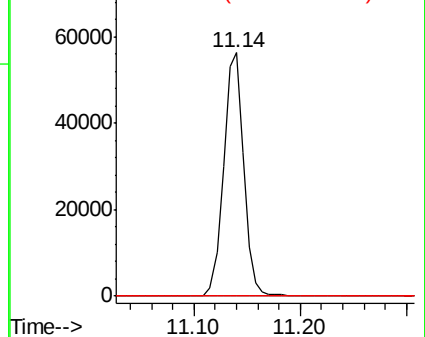
89 0.0 39.8 59.8#

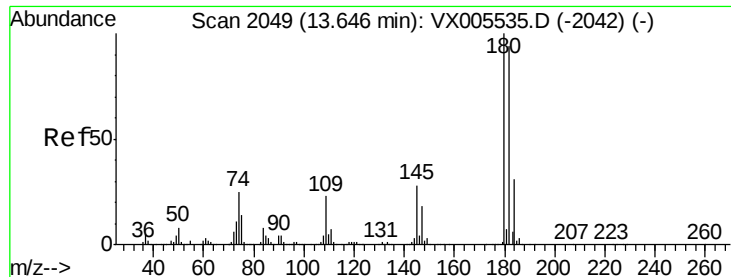


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.212 ug/l

RT: 13.65 min Scan# 2050

Delta R.T. 0.01 min

Lab File: VX005680.D

Acq: 30 Oct 2018 00:56

Instrument :

MSVOA_X

ClientSampleId :

PB114242TB

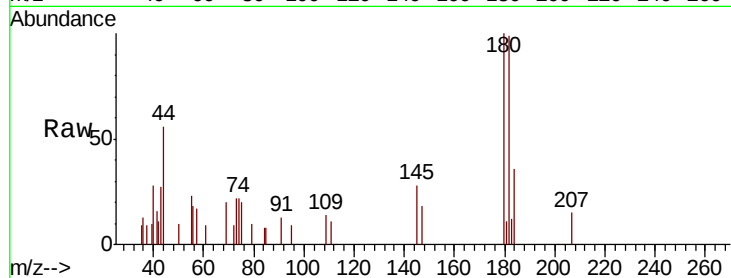
Tot Ion:180 Resp: 940

Ion Ratio Lower Upper

180 100

182 97.1 47.6 142.8

145 32.4 14.1 42.2



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

