

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005419.D
 Acq On : 18 Oct 2018 10:24
 Operator : JC/MD
 Sample : VX1018WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1018WBL01

Quant Time: Oct 19 03:29:24 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

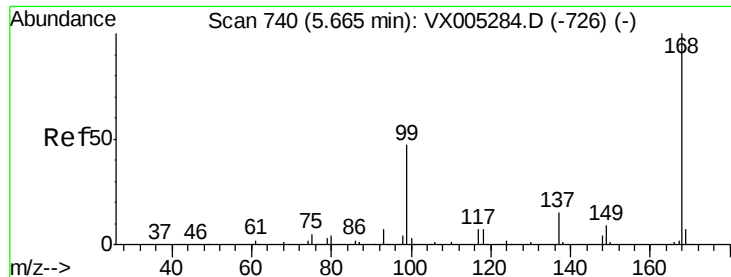
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	266750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	376535	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	334352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165599	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	147569	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
35) Dibromofluoromethane	5.50	113	120083	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
50) Toluene-d8	8.71	98	447416	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
62) 4-Bromofluorobenzene	11.14	95	146633	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	357	0.788	ug/l	92
6) Chloroethane	1.71	64	82	0.376	ug/l #	44
10) Methyl Iodide	2.52	142	372	2.625	ug/l #	85
11) Tert butyl alcohol	3.03	59	612	0.733	ug/l	99
13) Acrolein	2.30	56	318	Below Cal	#	68
15) Acrylonitrile	3.15	53	744	0.393	ug/l	88
16) Acetone	2.44	43	544	0.318	ug/l	89
17) Carbon Disulfide	2.57	76	2016	0.285	ug/l #	85
20) Methylene Chloride	2.86	84	384	Below Cal		94
29) Tetrahydrofuran	5.17	42	924	0.578	ug/l #	45
31) Cyclohexane	5.67	56	4496	1.105	ug/l #	1
38) Carbon Tetrachloride	5.66	117	22809	6.225	ug/l #	15
44) Trichloroethene	7.21	130	255	Below Cal		74
49) 1,4-Dioxane	7.76	88	63	0.843	ug/l #	82
76) 1,2,3-Trichloropropane	11.14	75	70773	22.033	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	70773	66.947	ug/l #	9

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

```
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Acq On    : 18 Oct 2018   10:24
Operator  : JC/MD
Sample    : VX1018WBL01
Misc      : 5.0mL/MSVOA X/WATER
ALS Vial  : 3      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampled :

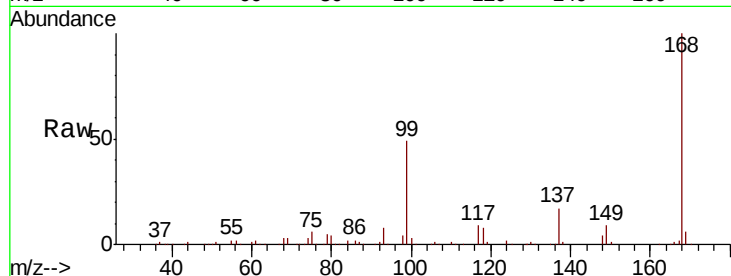
VX1018WBL01

Tot Ion:168 Resp: 266750

Ion Ratio Lower Upper

168 100

99 49.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

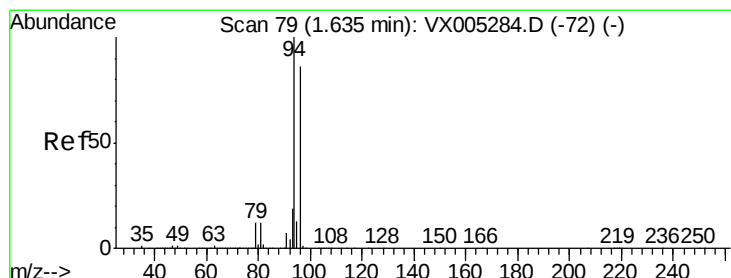
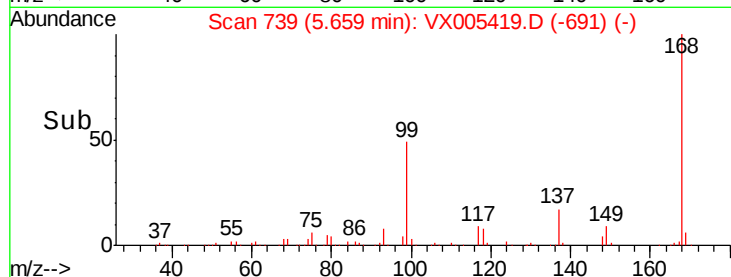
40000

20000

0

Time-->

5.60 5.80 6.00



#5

Bromomethane

Concen: 0.788 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX005419.D

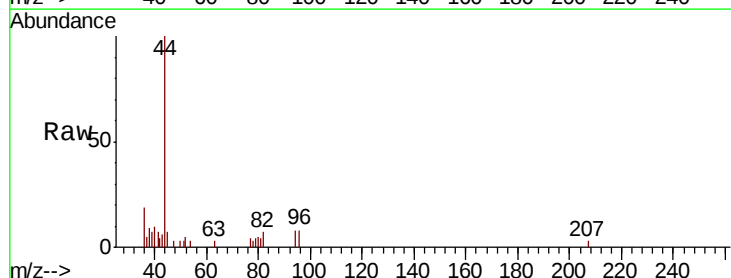
Acq: 18 Oct 2018 10:24

Tgt Ion: 94 Resp: 357

Ion Ratio Lower Upper

94 100

96 100.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

250

200

150

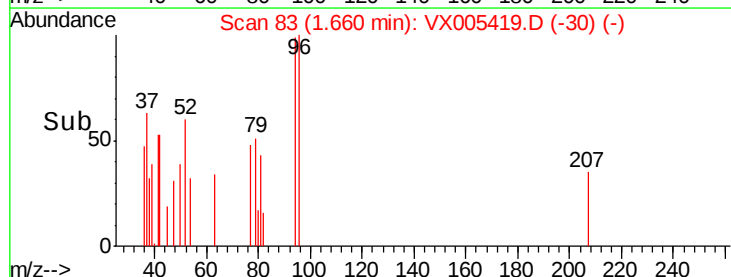
100

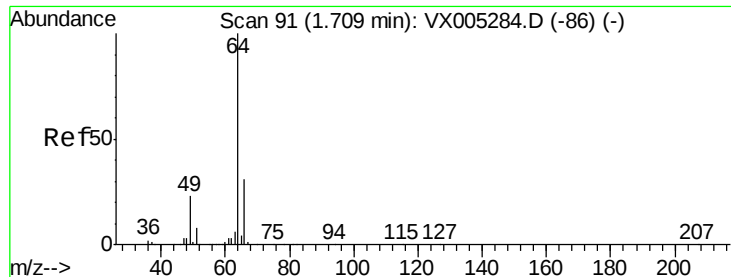
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.376 ug/l

RT: 1.71 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampleId :

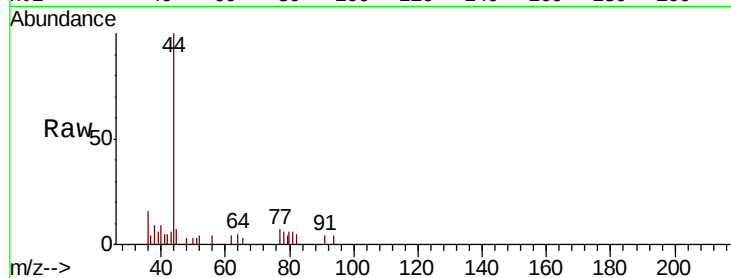
VX1018WBL01

Tot Ion: 64 Resp: 82

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



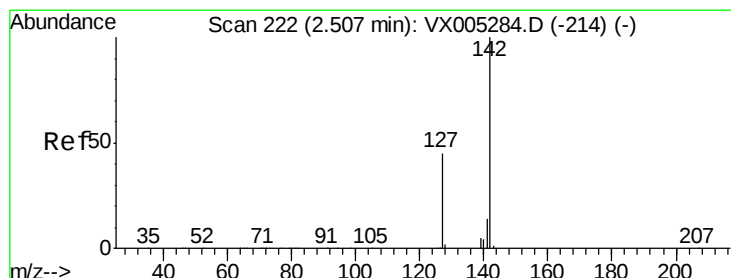
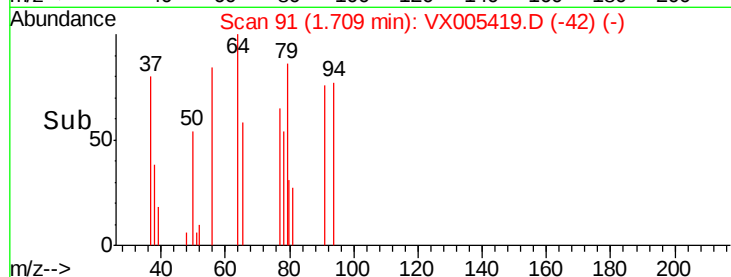
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

1.72

Time-->



#10

Methyl Iodide

Concen: 2.625 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

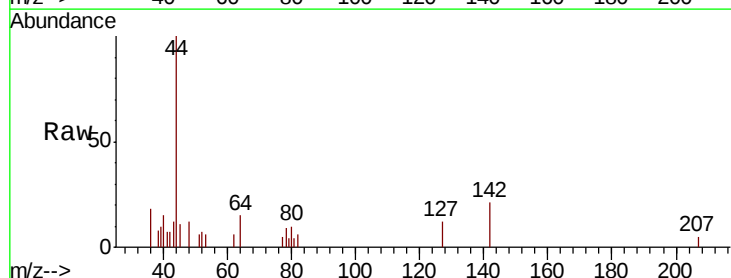
Tgt Ion: 142 Resp: 372

Ion Ratio Lower Upper

142 100

127 50.8 33.8 50.6#

141 6.5 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

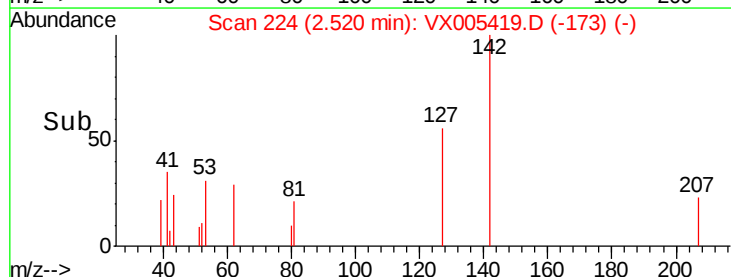
Ion 126.80 (126.50 to 127.50): V

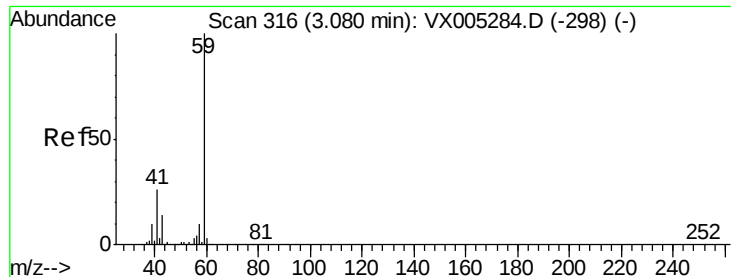
Ion 140.80 (140.50 to 141.50): V

2.52

2.55

Time-->

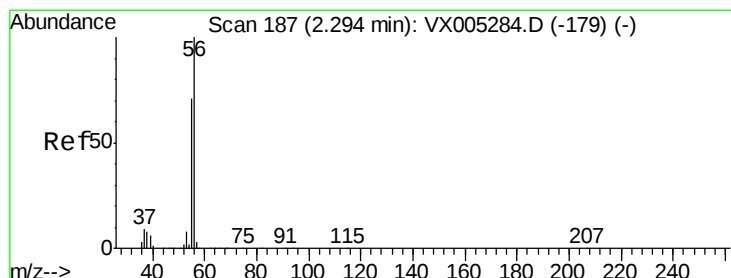
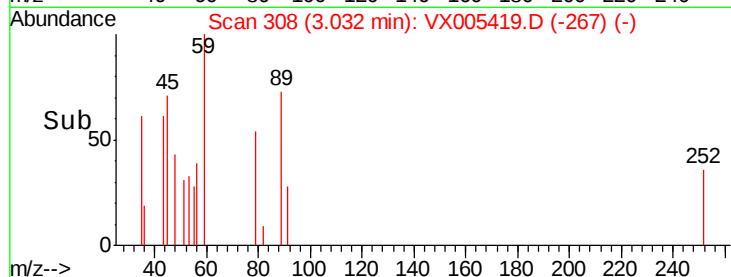
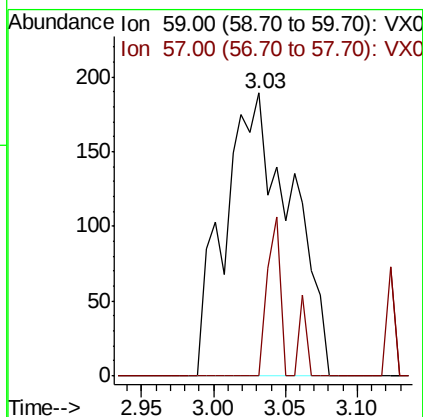
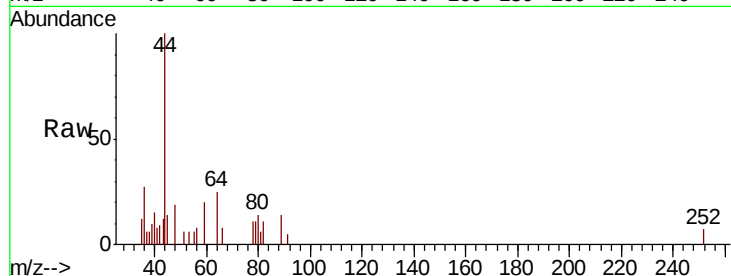




#11
Tert butvl alcohol
Concen: 0.733 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.05 min
Lab File: VX005419.D
Acq: 18 Oct 2018 10:24

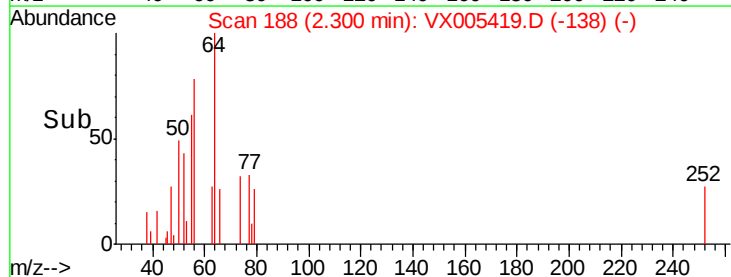
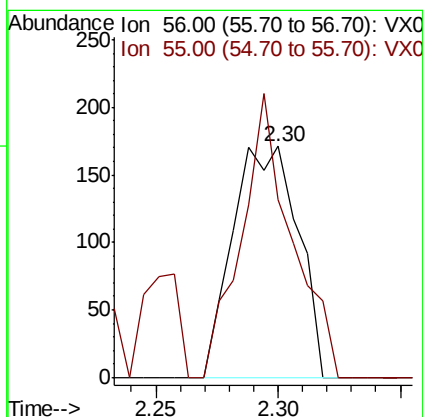
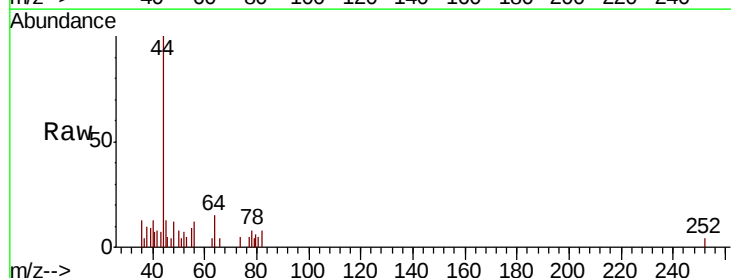
Instrument :
MSVOA_X
ClientSampleId :
VX1018WBL01

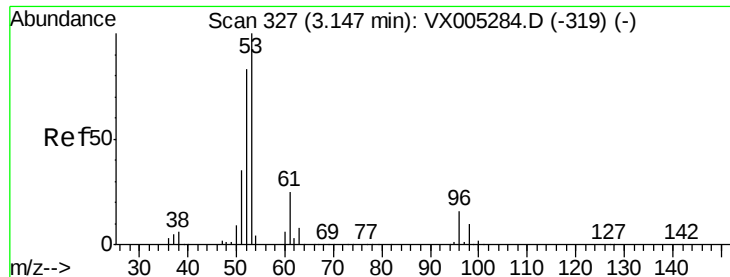
Tot Ion: 59 Resp: 612
Ion Ratio Lower Upper
59 100
57 10.6 8.2 12.4



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005419.D
Acq: 18 Oct 2018 10:24

Tgt Ion: 56 Resp: 318
Ion Ratio Lower Upper
56 100
55 94.7 54.7 82.1#





#15

Acrylonitrile

Concen: 0.393 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampled :

VX1018WBL01

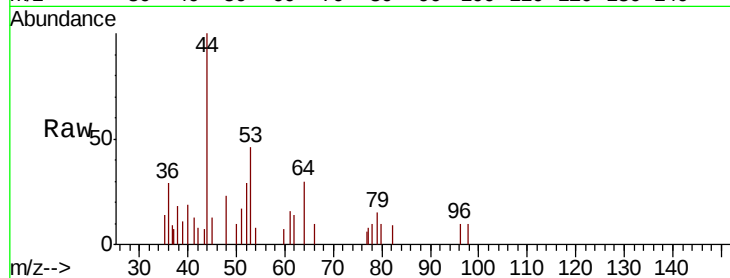
Tot Ion: 53 Resp: 744

Ion Ratio Lower Upper

53 100

52 93.4 65.2 97.8

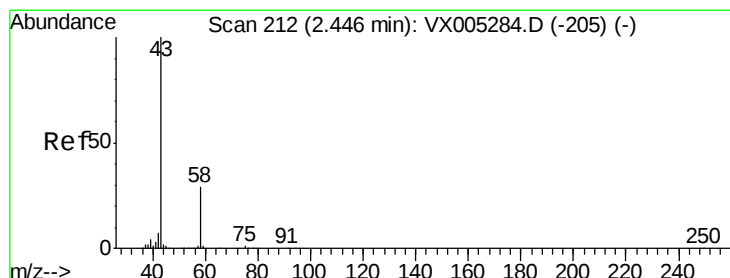
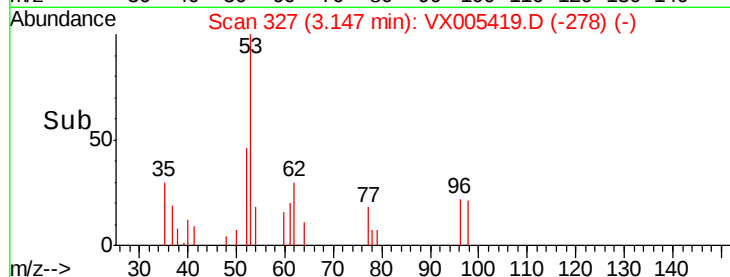
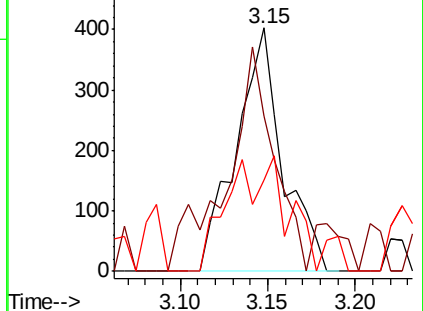
51 29.8 28.2 42.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.318 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005419.D

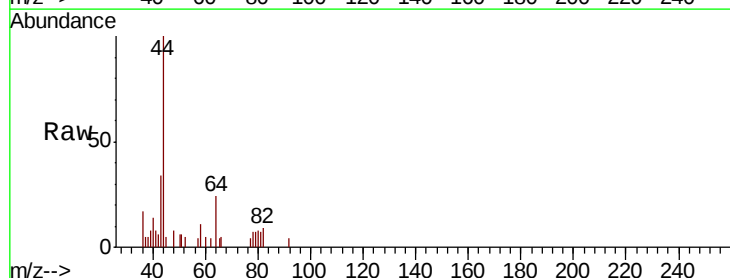
Acq: 18 Oct 2018 10:24

Tgt Ion: 43 Resp: 544

Ion Ratio Lower Upper

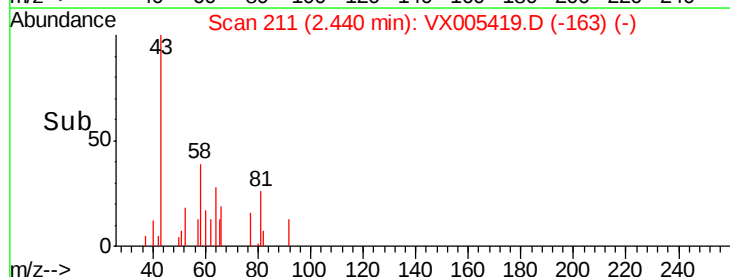
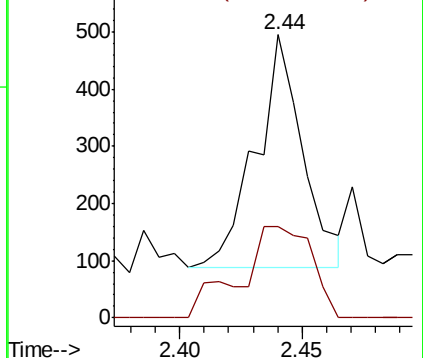
43 100

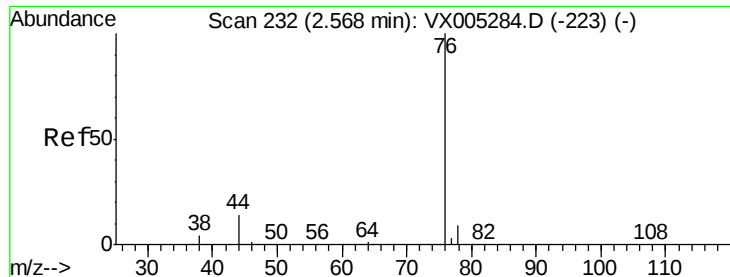
58 39.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.285 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampleId :

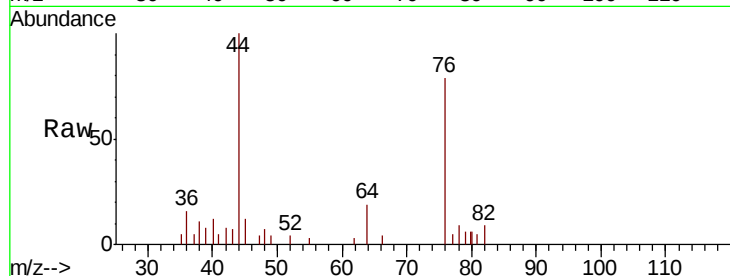
VX1018WBL01

Tot Ion: 76 Resp: 2016

Ion Ratio Lower Upper

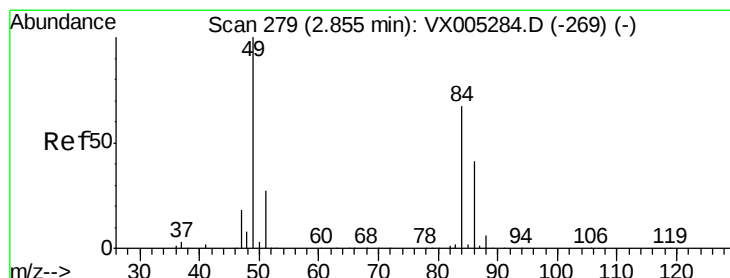
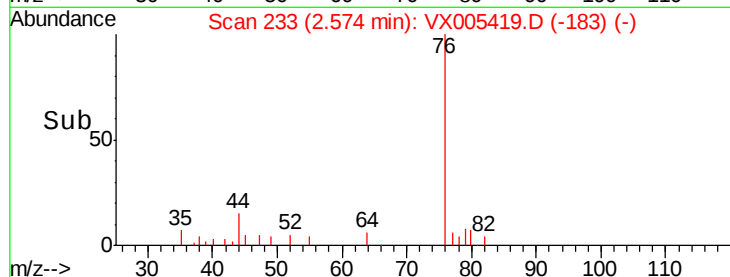
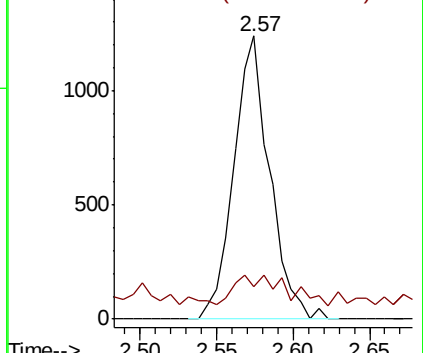
76 100

78 3.5 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Tgt Ion: 84 Resp: 384

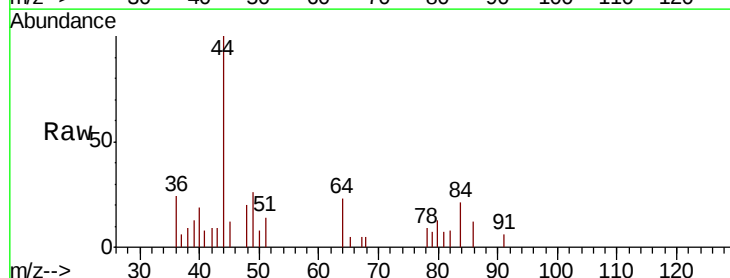
Ion Ratio Lower Upper

84 100

49 123.6 101.2 151.8

51 43.3 29.5 44.3

86 56.2 52.3 78.5

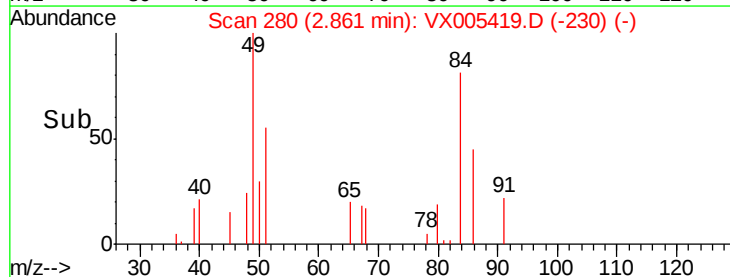
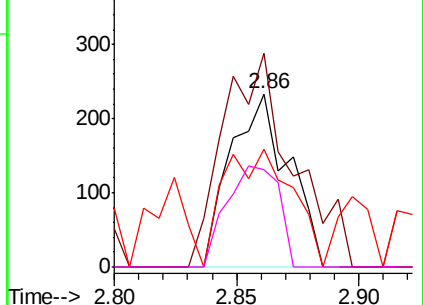


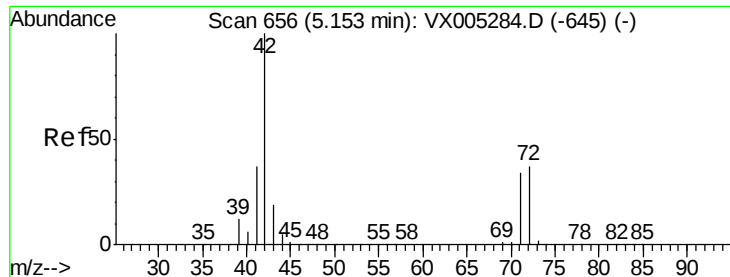
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#29

Tetrahydrofuran

Concen: 0.578 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampleId :

VX1018WBL01

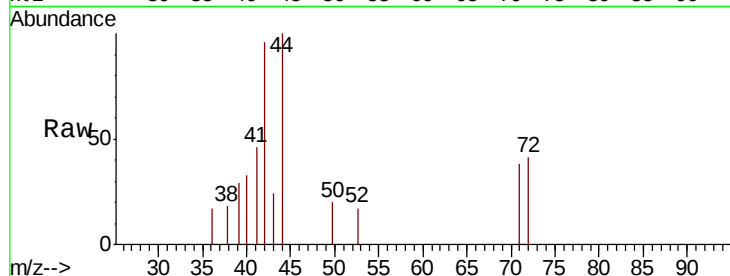
Tot Ion: 42 Resp: 924

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

71 18.7 34.5 51.7#



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

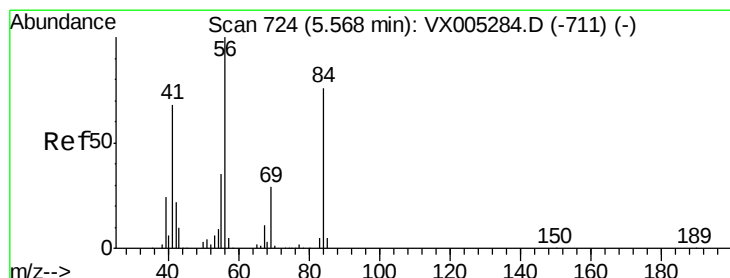
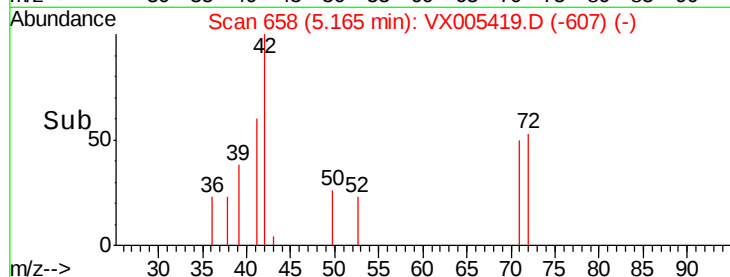
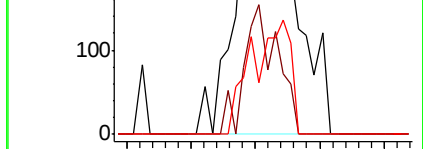
5.17

300

200

100

0



#31

Cyclohexane

Concen: 1.105 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

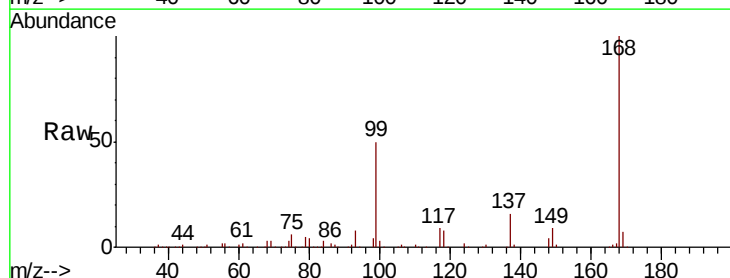
Tgt Ion: 56 Resp: 4496

Ion Ratio Lower Upper

56 100

69 153.7 25.4 38.2#

84 144.7 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

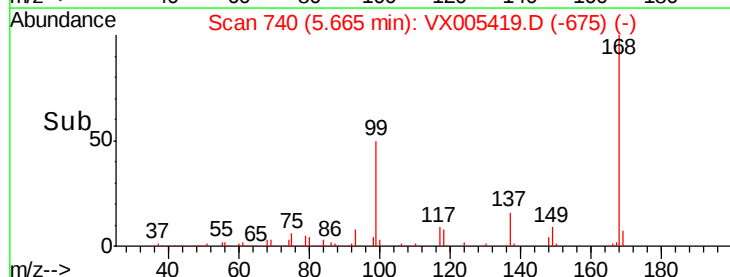
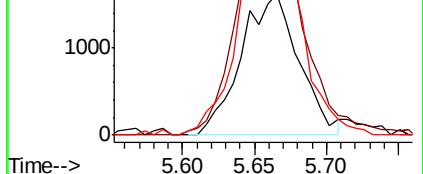
5.67

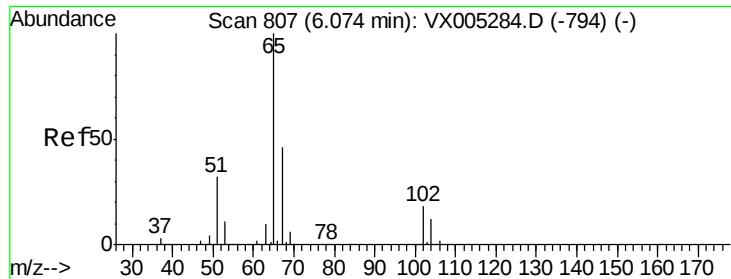
3000

2000

1000

0

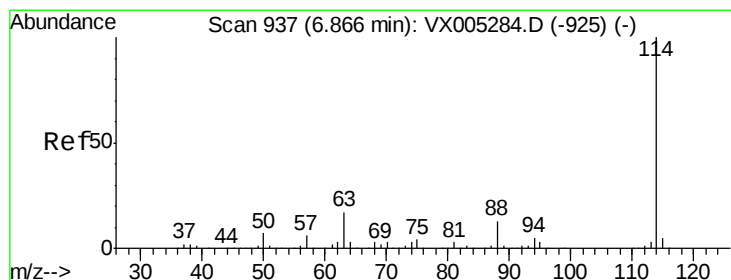
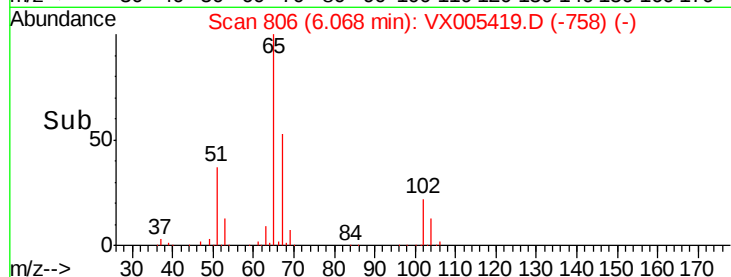
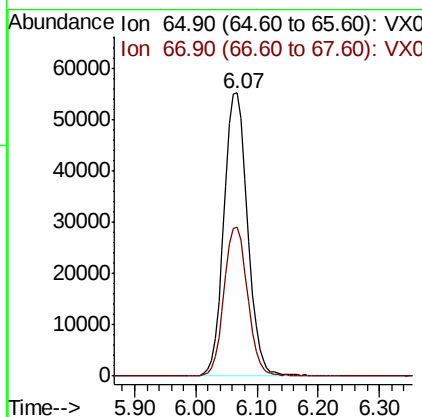
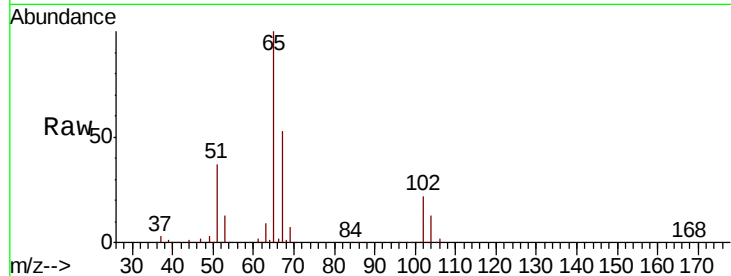




#33
 1,2-Dichloroethane-d4
 Concen: 49.846 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005419.D
 Acq: 18 Oct 2018 10:24

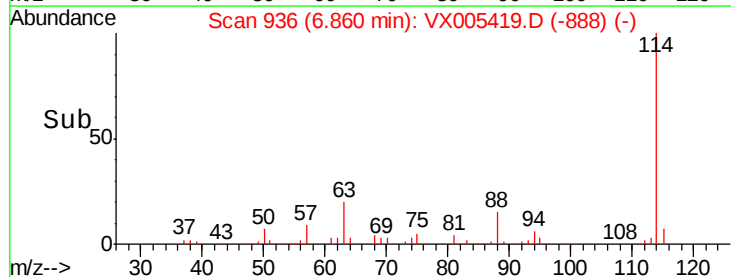
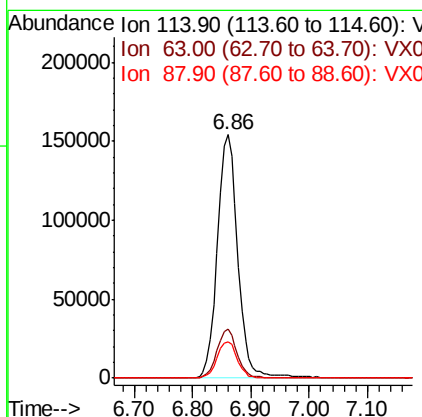
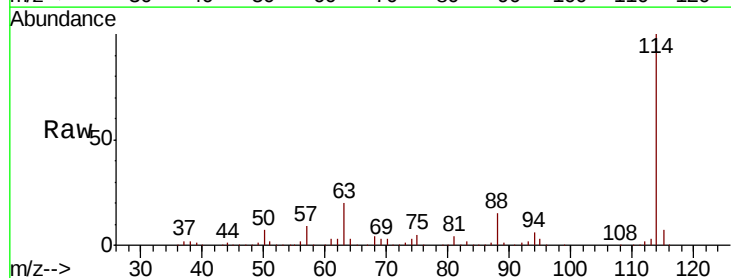
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1018WBL01

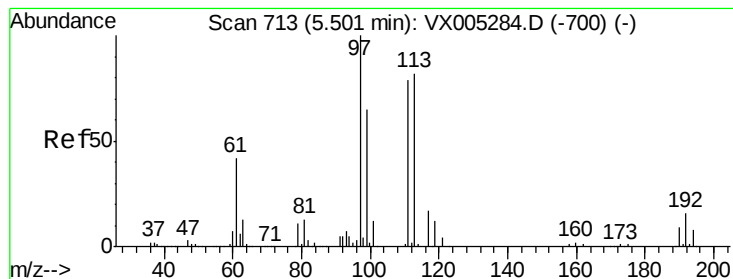
Tot Ion: 65 Resp: 147569
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005419.D
 Acq: 18 Oct 2018 10:24

Tgt Ion: 114 Resp: 376535
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.151 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampleId :

VX1018WBL01

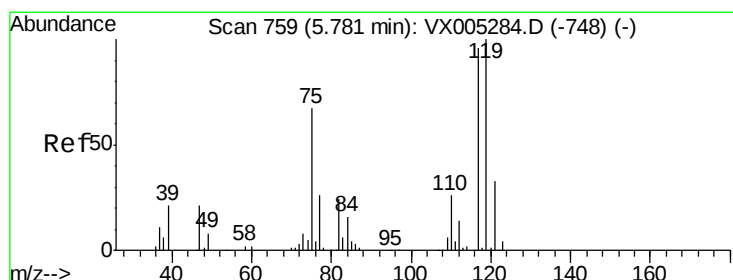
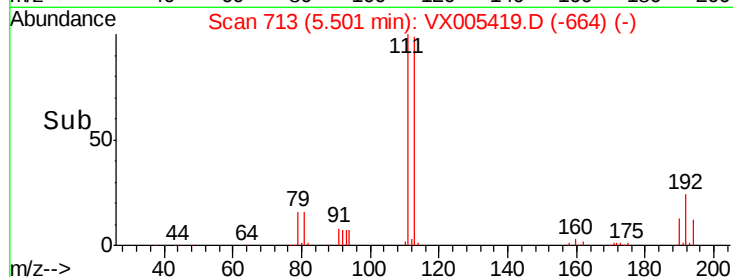
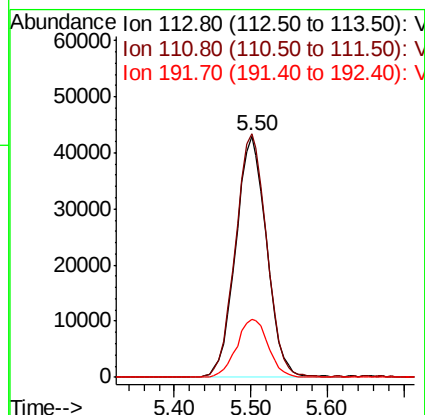
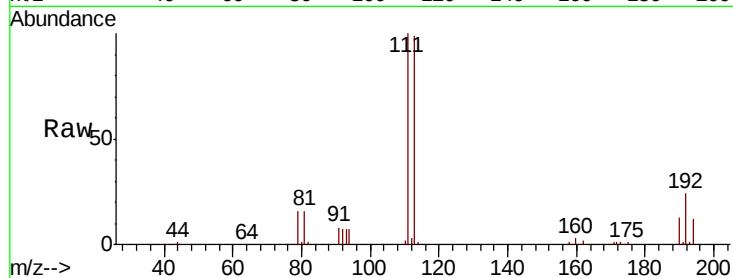
Tot Ion:113 Resp: 120083

Ion Ratio Lower Upper

113 100

111 102.0 82.4 123.6

192 24.5 19.4 29.2



#38

Carbon Tetrachloride

Concen: 6.225 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

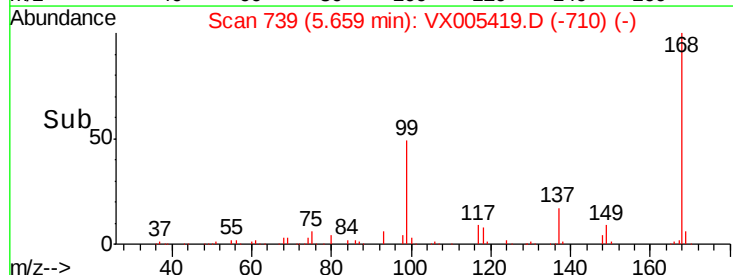
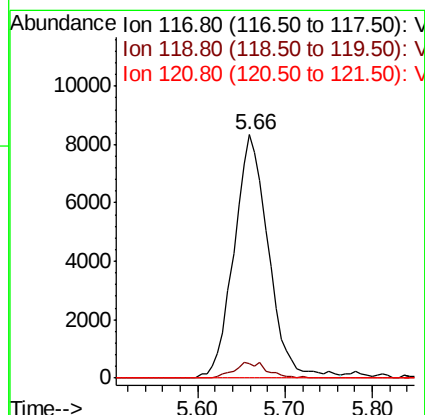
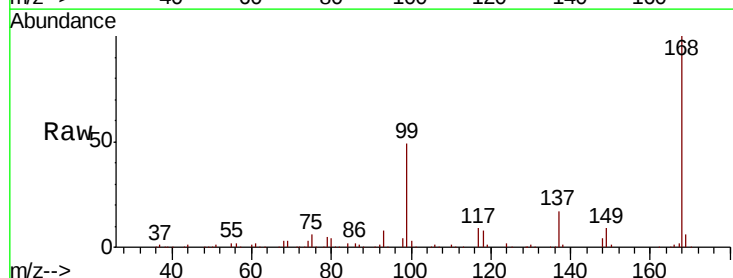
Tgt Ion:117 Resp: 22809

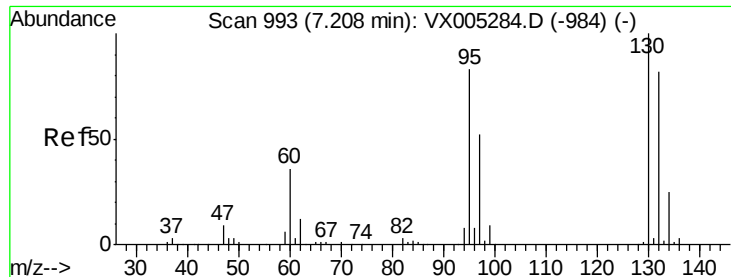
Ion Ratio Lower Upper

117 100

119 5.8 78.8 118.2#

121 0.0 24.9 37.3#





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampleId :

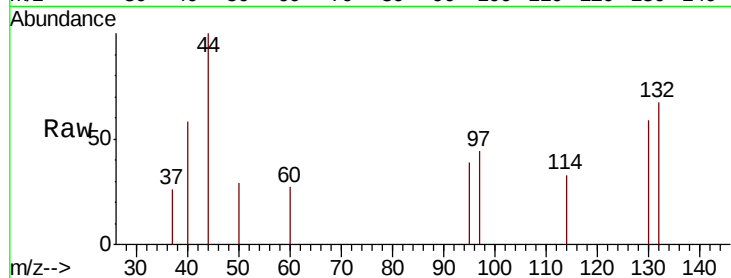
VX1018WBL01

Tot Ion:130 Resp: 255

Ion Ratio Lower Upper

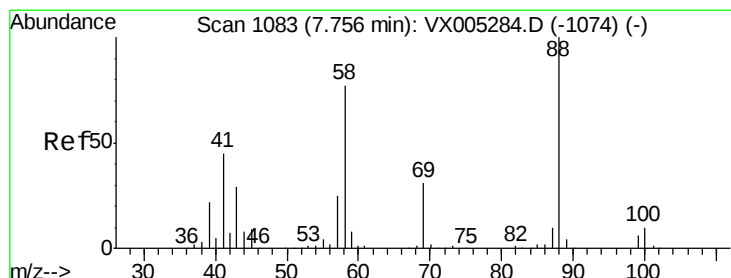
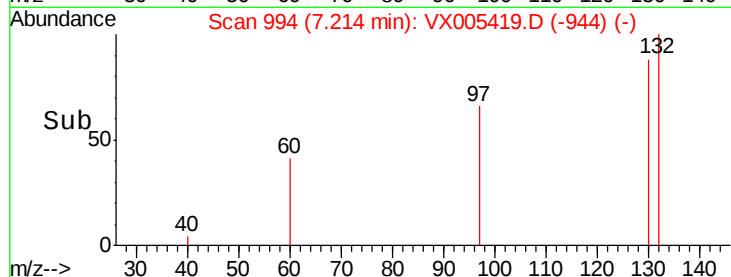
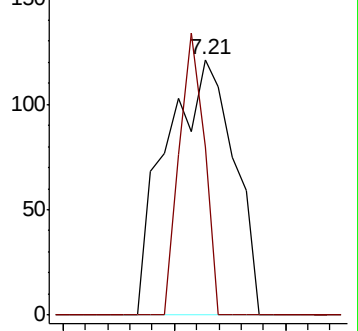
130 100

95 66.1 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.843 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

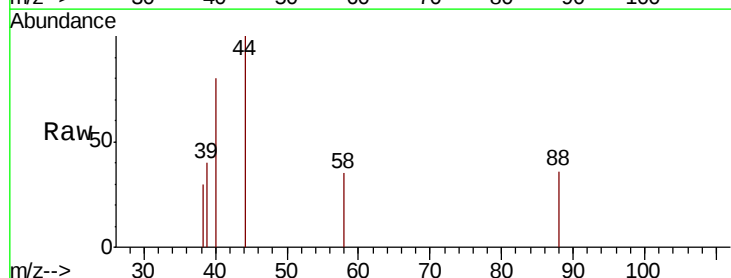
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 24.7 37.1#

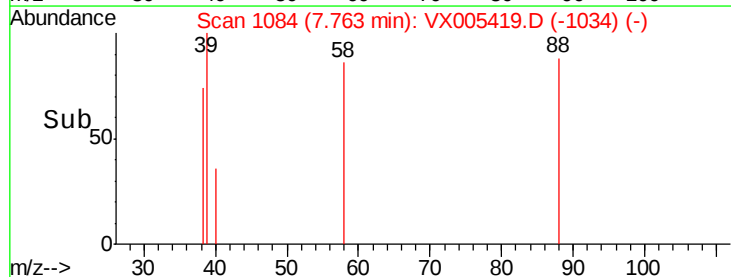
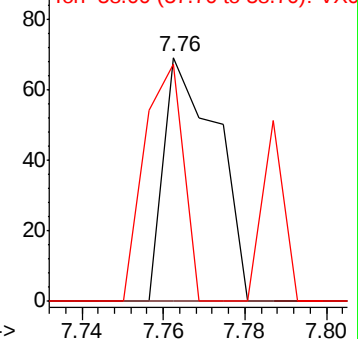
58 69.8 55.3 82.9

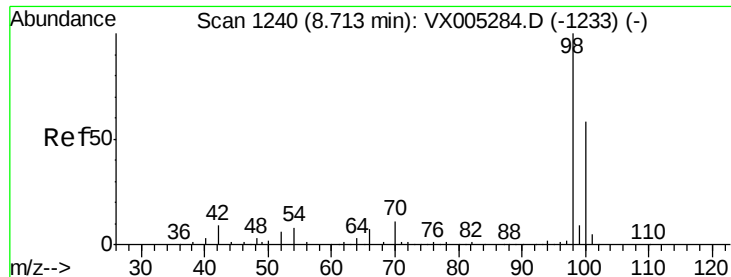


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.258 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

Instrument :

MSVOA_X

ClientSampleId :

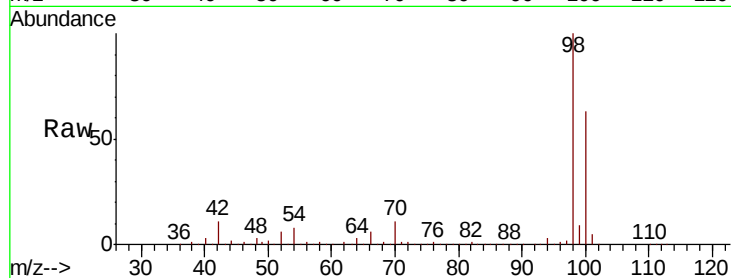
VX1018WBL01

Tot Ion: 98 Resp: 447416

Ion Ratio Lower Upper

98 100

100 63.0 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

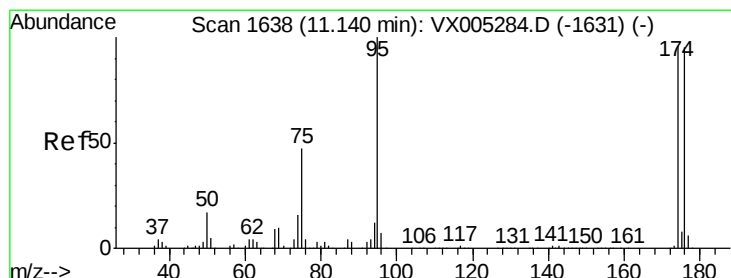
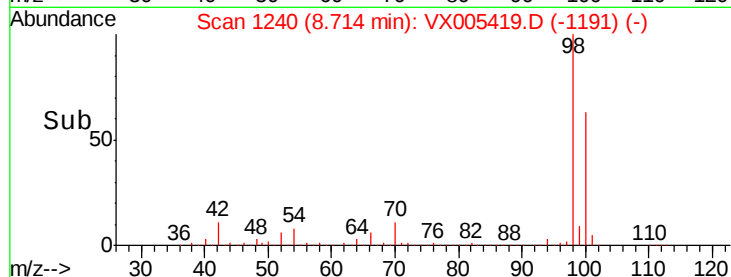
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.590 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005419.D

Acq: 18 Oct 2018 10:24

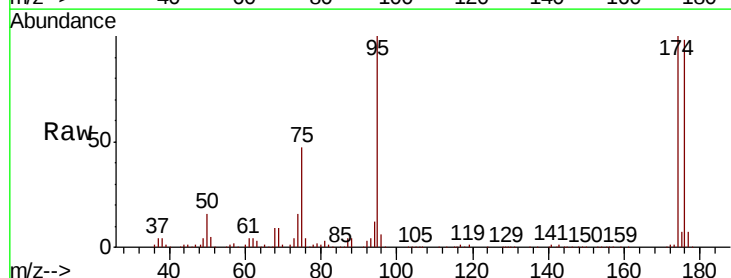
Tgt Ion: 95 Resp: 146633

Ion Ratio Lower Upper

95 100

174 96.7 0.0 185.2

176 93.2 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

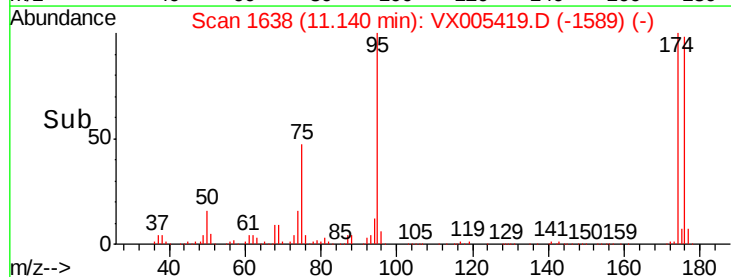
150000

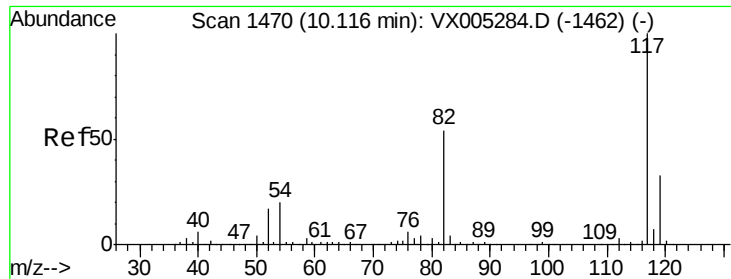
100000

50000

0

Time-->

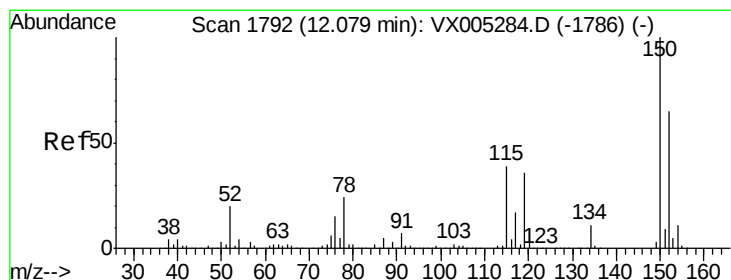
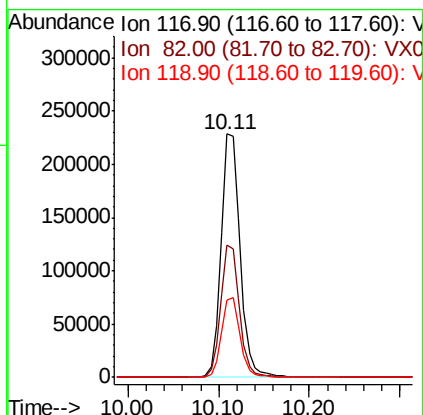
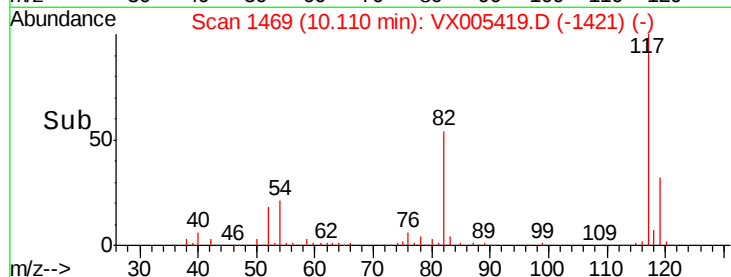
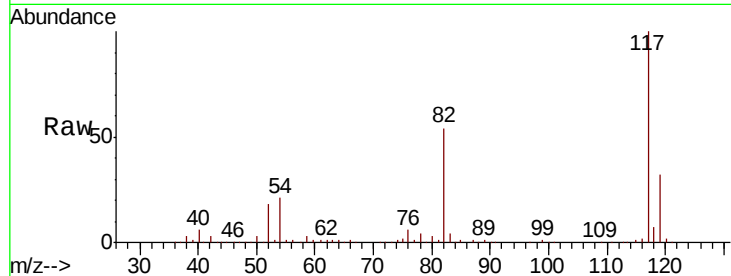




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX005419.D
Acq: 18 Oct 2018 10:24

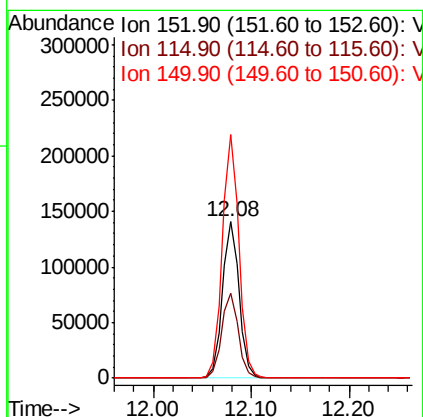
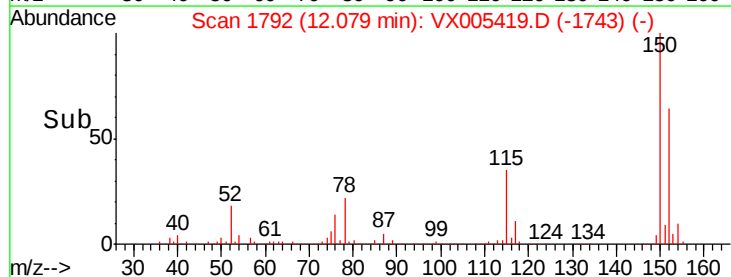
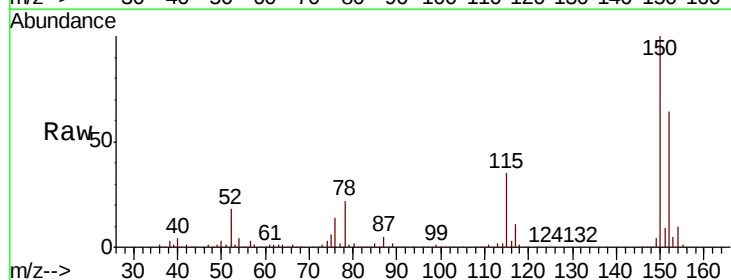
Instrument :
MSVOA_X
ClientSampleId :
VX1018WBL01

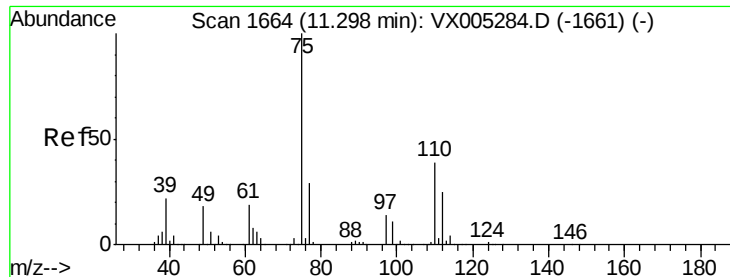
Tot Ion:117 Resp: 334352
Ion Ratio Lower Upper
117 100
82 54.4 47.8 71.6
119 31.6 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005419.D
Acq: 18 Oct 2018 10:24

Tgt Ion:152 Resp: 165599
Ion Ratio Lower Upper
152 100
115 54.4 39.0 117.0
150 155.7 0.0 351.0

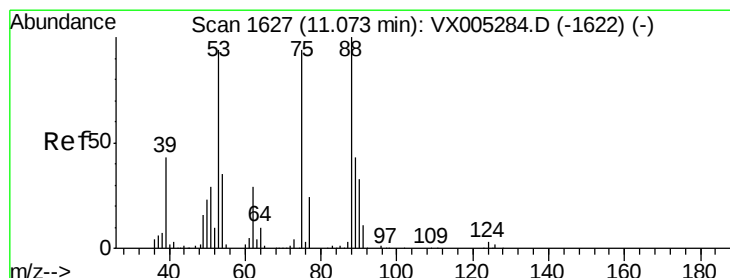
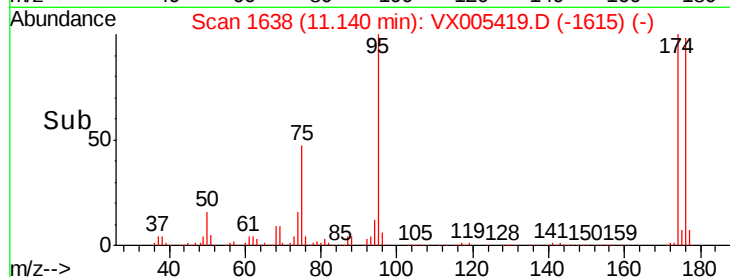
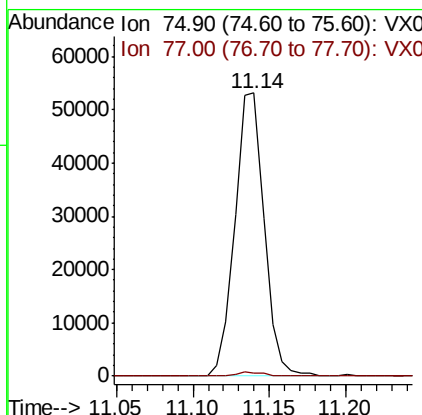
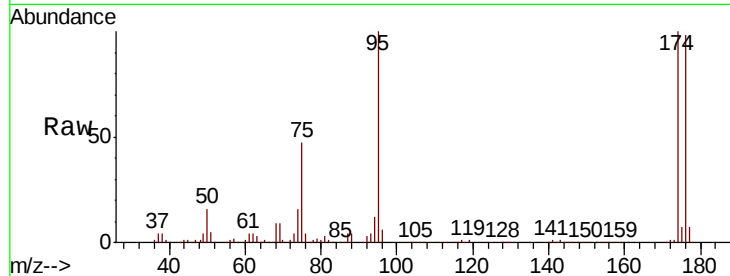




#76
 1,2,3-Trichloropropane
 Concen: 22.033 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005419.D
 Acq: 18 Oct 2018 10:24

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1018WBL01

Tot Ion: 75 Resp: 70773
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.947 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005419.D
 Acq: 18 Oct 2018 10:24

Tgt Ion: 75 Resp: 70773
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.1 120.1#
 89 0.0 37.2 55.8#

