

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005312.D
 Acq On : 13 Oct 2018 00:31
 Operator : JC/MD
 Sample : J5474-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-GMZ5-TB3

Quant Time: Oct 13 02:41:05 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	268138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	391126	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338146	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	162621	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	161283	54.20	ug/l	0.00
Spiked Amount			Recovery	=	108.40%	
35) Dibromofluoromethane	5.51	113	124975	48.24	ug/l	0.01
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	8.72	98	448859	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.14	95	145543	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

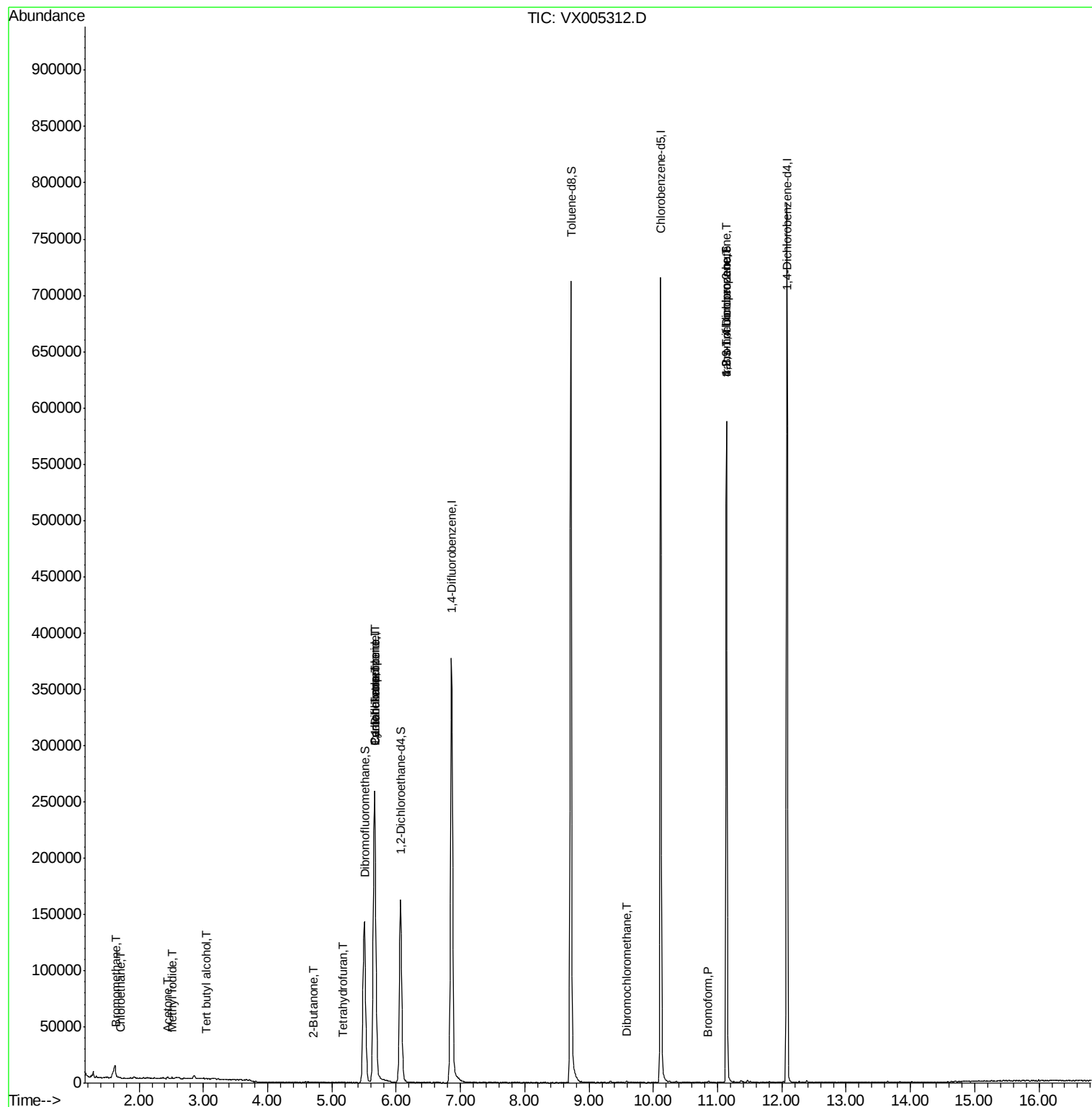
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	920	1.107	ug/l	88
6) Chloroethane	1.71	64	41	0.355	ug/l #	44
10) Methyl Iodide	2.51	142	640	2.723	ug/l #	90
11) Tert butyl alcohol	3.05	59	345	0.411	ug/l #	88
13) Acrolein	2.29	56	63	Below Cal	#	16
16) Acetone	2.45	43	1543	0.897	ug/l #	82
20) Methylene Chloride	2.85	84	1295	Below Cal	#	90
25) 2-Butanone	4.70	43	581	0.231	ug/l #	47
29) Tetrahydrofuran	5.16	42	402	0.250	ug/l #	57
31) Cyclohexane	5.67	56	4830	1.181	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18247	4.817	ug/l #	49
38) Carbon Tetrachloride	5.67	117	25478	6.694	ug/l #	15
44) Trichloroethene	7.21	130	336	Below Cal		59
60) Dibromochloromethane	9.59	129	615	0.226	ug/l	93
71) Bromoform	10.86	173	486	0.212	ug/l #	83
76) 1,2,3-Trichloropropane	11.14	75	72235	22.900	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72235	69.581	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

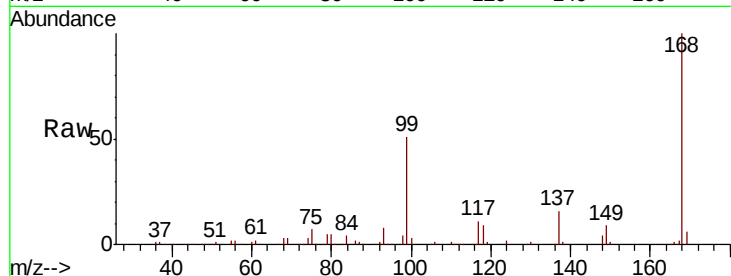
FA18-GMZ5-TB3

Tot Ion:168 Resp: 268138

Ion Ratio Lower Upper

168 100

99 50.9 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

100000

80000

60000

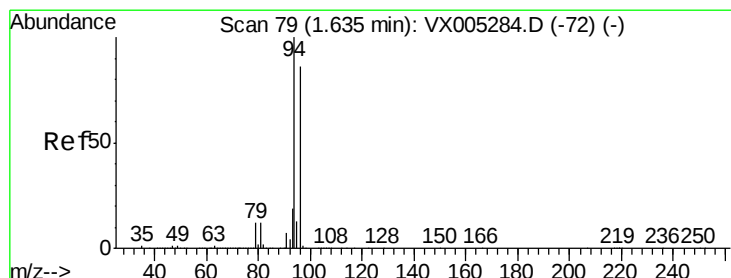
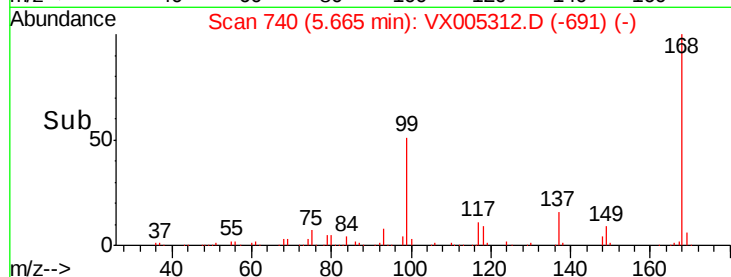
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 1.107 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005312.D

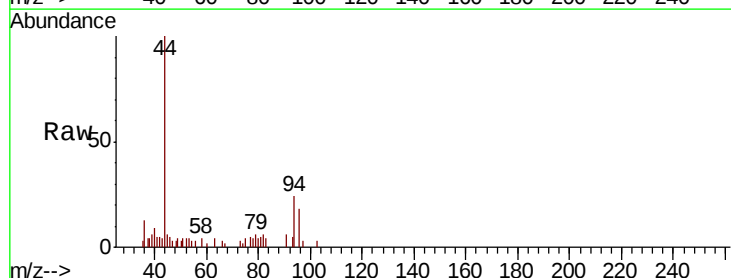
Acq: 13 Oct 2018 00:31

Tgt Ion: 94 Resp: 920

Ion Ratio Lower Upper

94 100

96 81.9 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

600

500

400

300

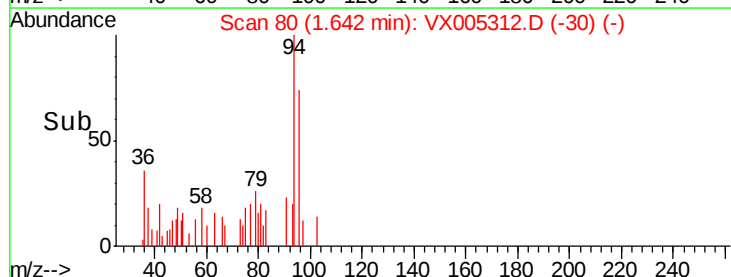
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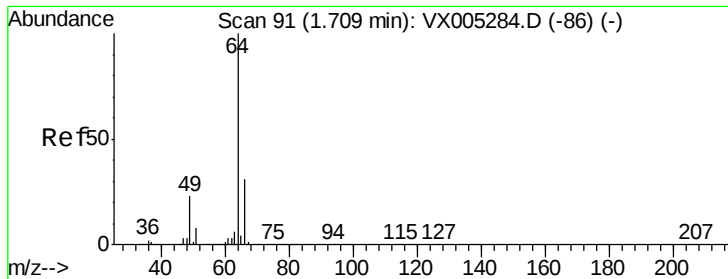
100

0

Time-->

1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.355 ug/l

RT: 1.71 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

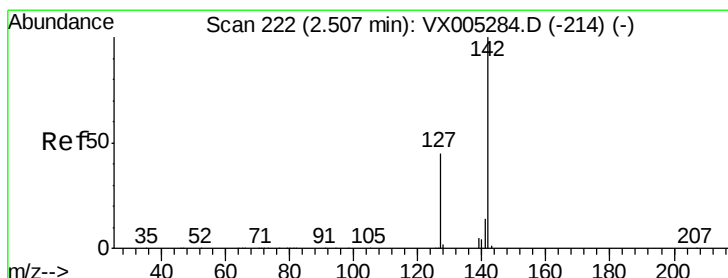
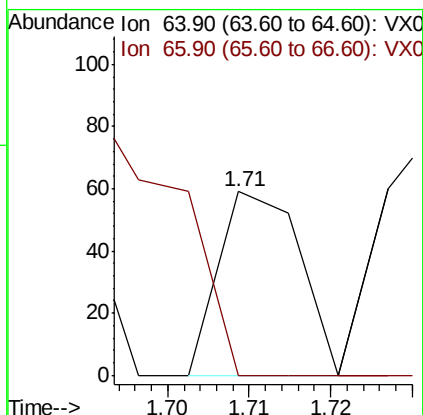
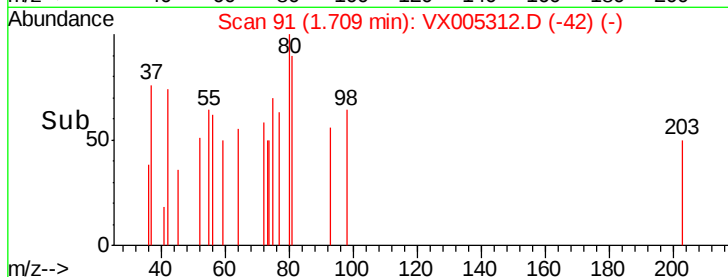
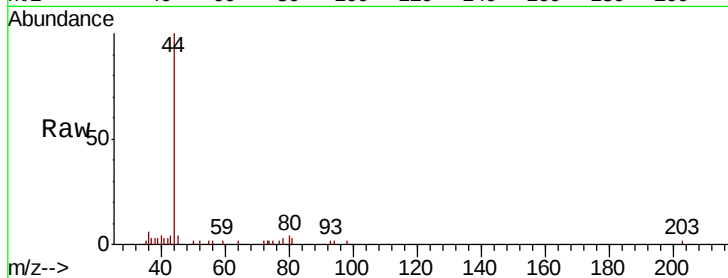
FA18-GMZ5-TB3

Tot Ion: 64 Resp: 41

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#10

Methyl Iodide

Concen: 2.723 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

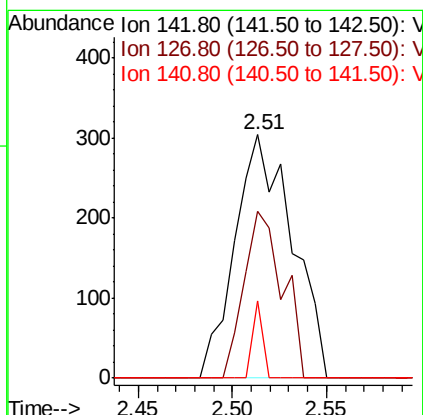
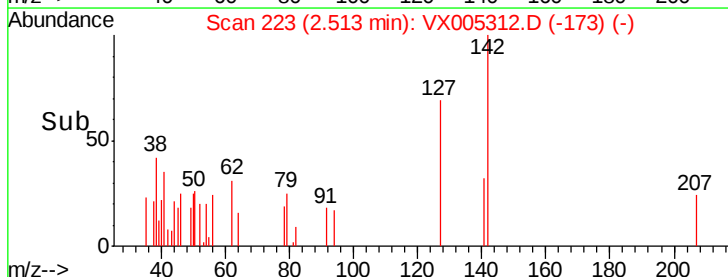
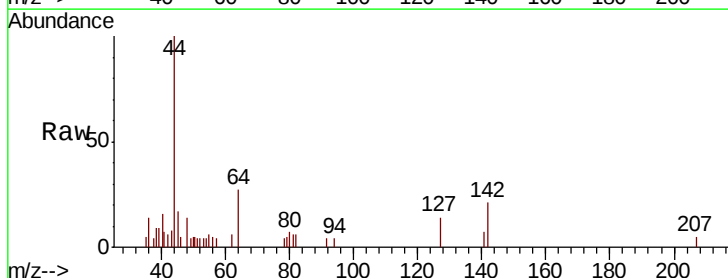
Tgt Ion: 142 Resp: 640

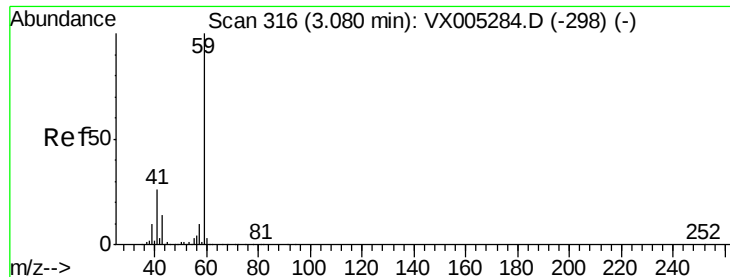
Ion Ratio Lower Upper

142 100

127 46.4 33.8 50.6

141 5.6 11.4 17.0#



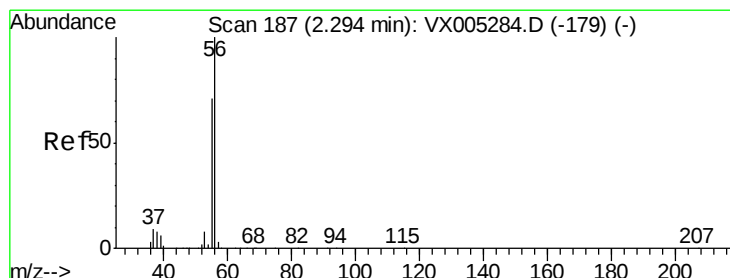
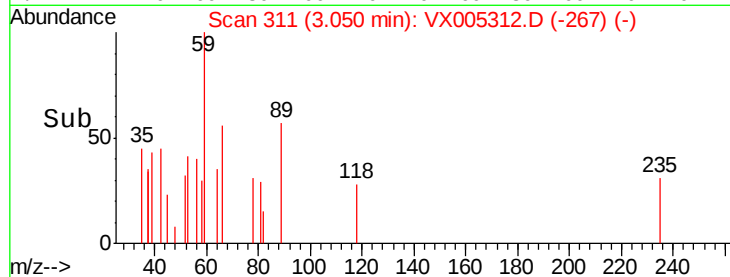
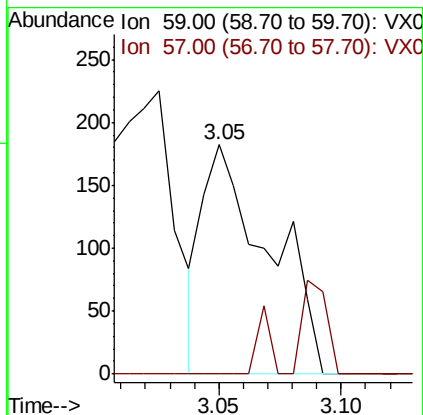
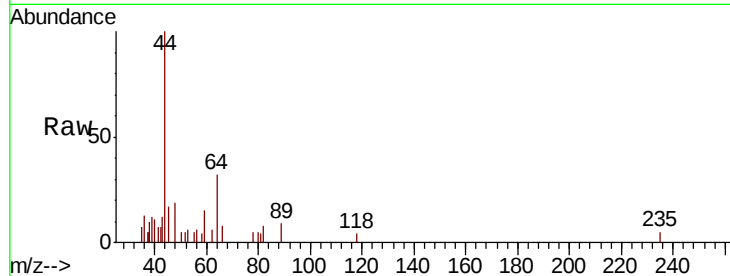


#11

Tert butyl alcohol
Concen: 0.411 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.03 min
Lab File: VX005312.D
Acq: 13 Oct 2018 00:31

Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-TB3

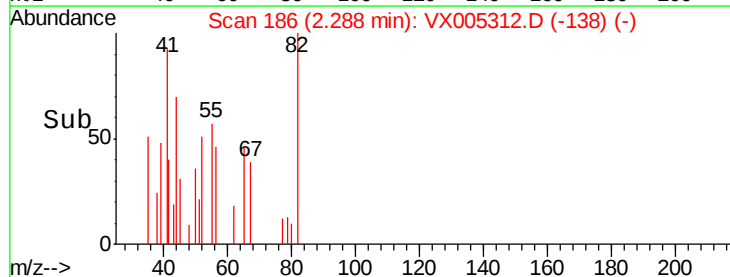
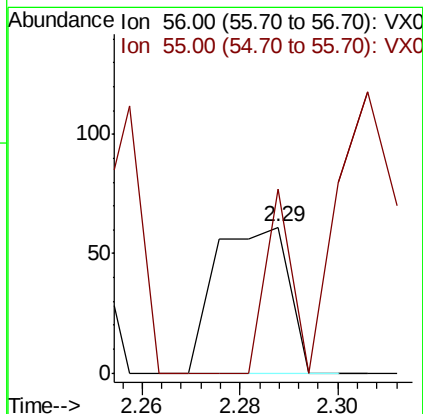
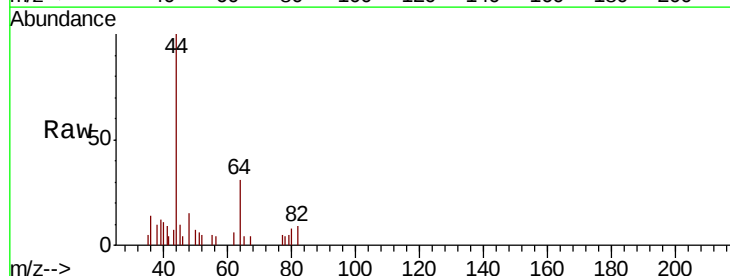
Tot Ion: 59 Resp: 345
Ion Ratio Lower Upper
59 100
57 5.8 8.2 12.4#

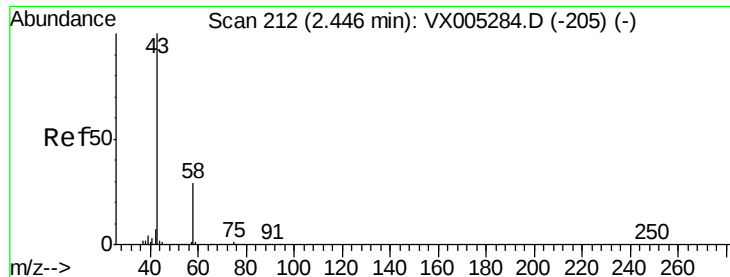


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005312.D
Acq: 13 Oct 2018 00:31

Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#

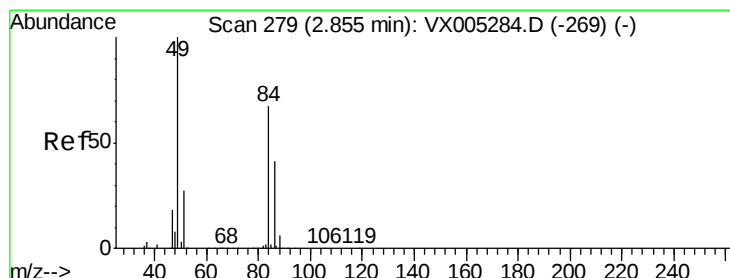
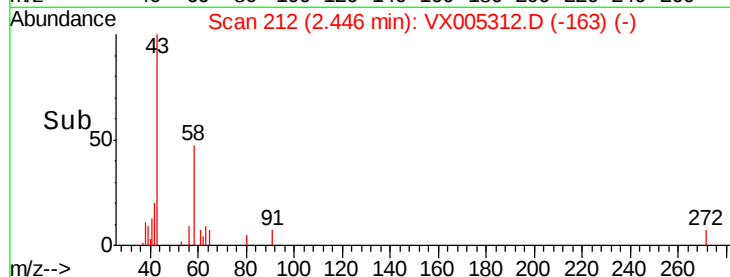
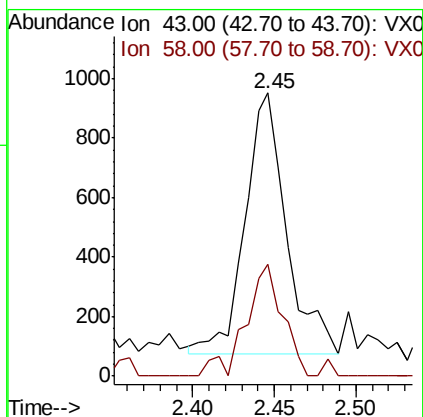
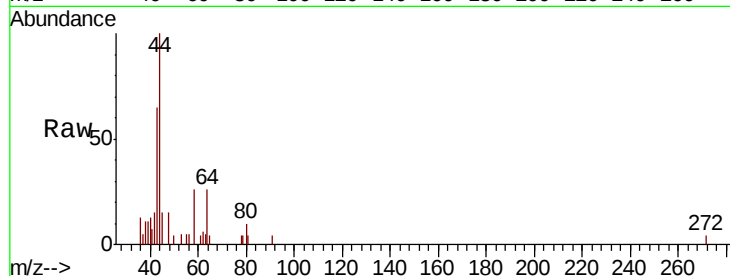




#16
Acetone
Concen: 0.897 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX005312.D
Acq: 13 Oct 2018 00:31

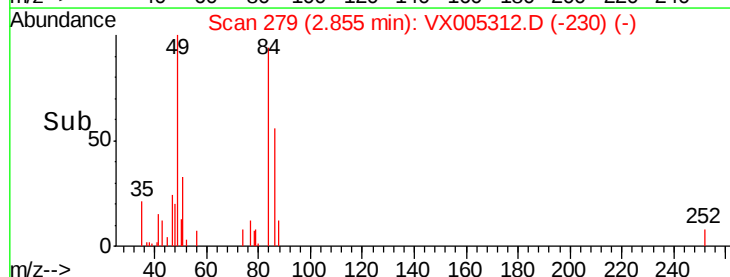
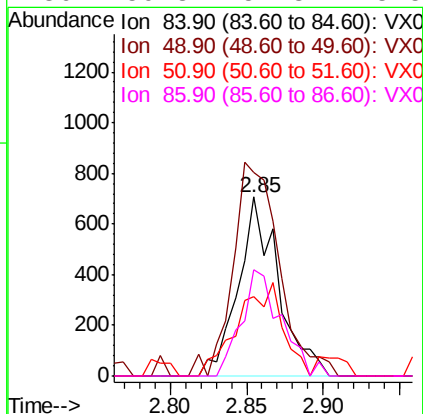
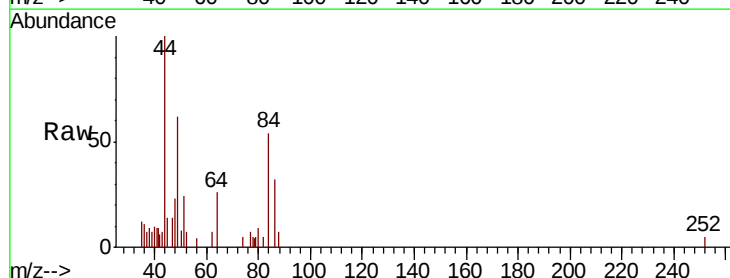
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-TB3

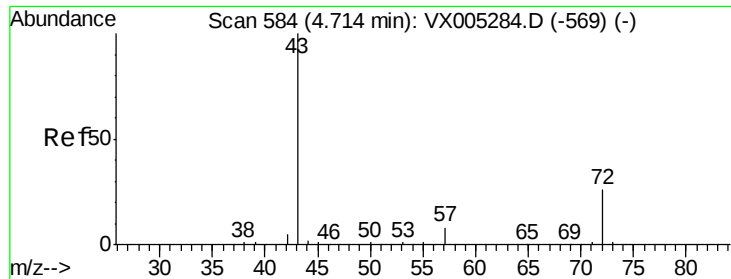
Tot Ion: 43 Resp: 1543
Ion Ratio Lower Upper
43 100
58 43.0 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005312.D
Acq: 13 Oct 2018 00:31

Tgt Ion: 84 Resp: 1295
Ion Ratio Lower Upper
84 100
49 114.0 101.2 151.8
51 44.3 29.5 44.3#
86 59.3 52.3 78.5





#25

2-Butanone

Concen: 0.231 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

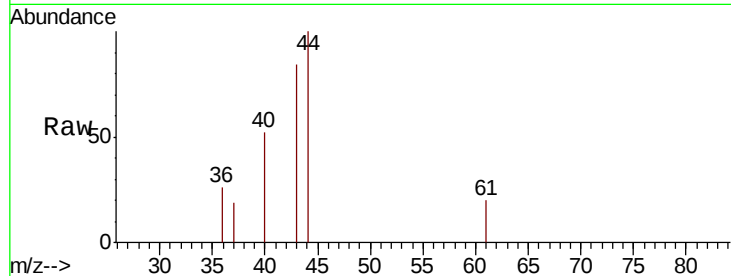
FA18-GMZ5-TB3

Tot Ion: 43 Resp: 581

Ion Ratio Lower Upper

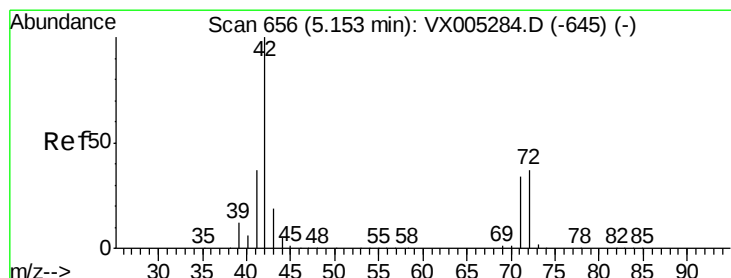
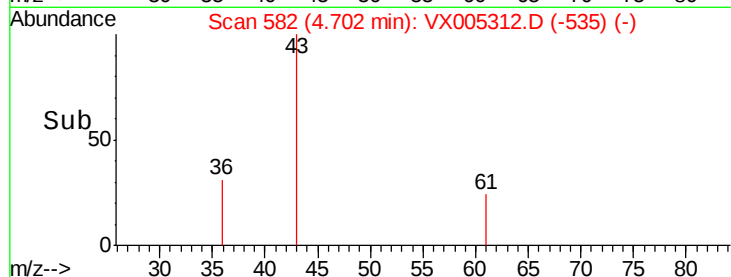
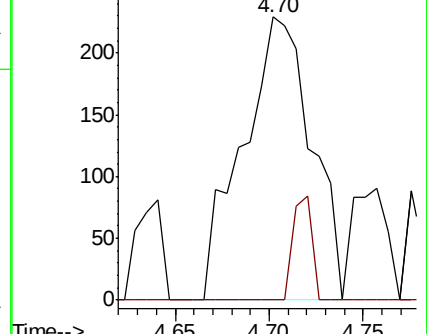
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

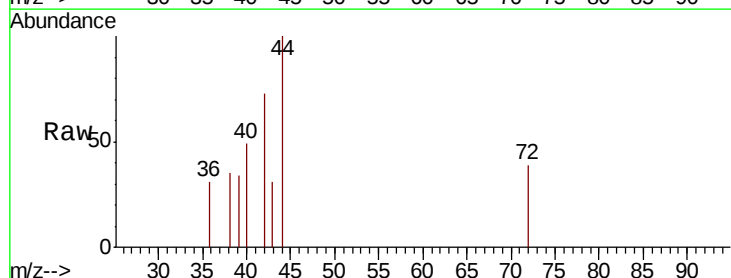
Tgt Ion: 42 Resp: 402

Ion Ratio Lower Upper

42 100

72 18.2 37.4 56.0#

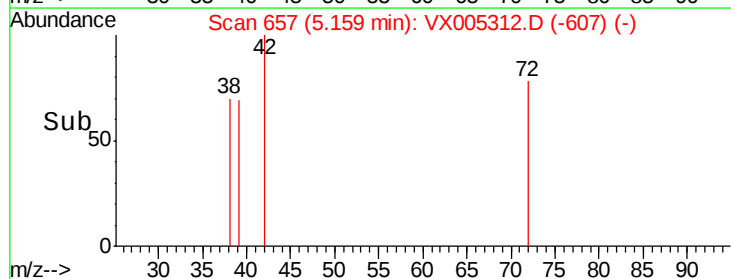
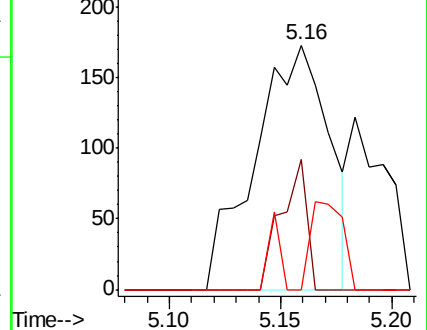
71 15.7 34.5 51.7#

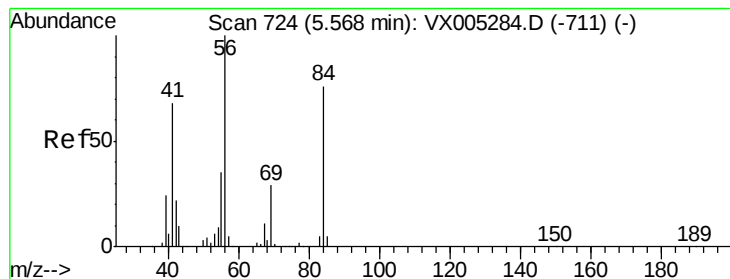


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.181 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ5-TB3

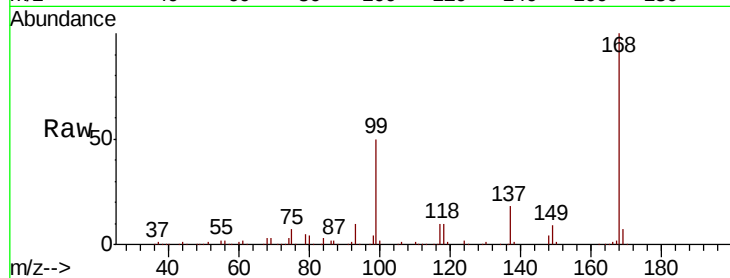
Tot Ion: 56 Resp: 4830

Ion Ratio Lower Upper

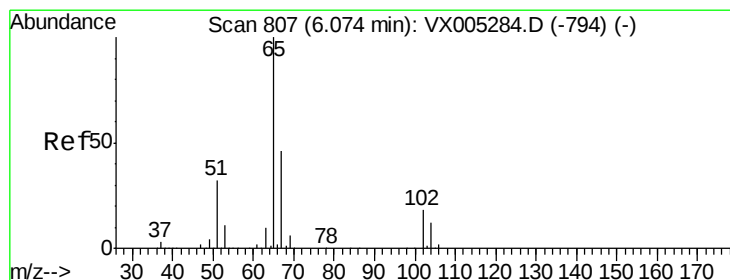
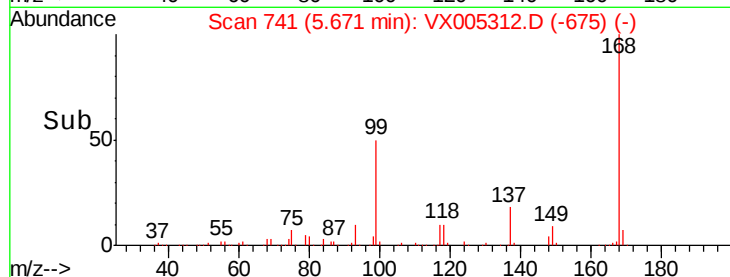
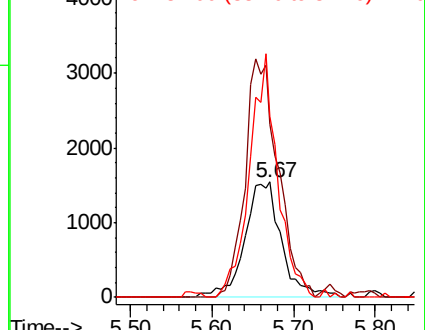
56 100

69 150.2 25.4 38.2#

84 157.2 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: 54.196 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX005312.D

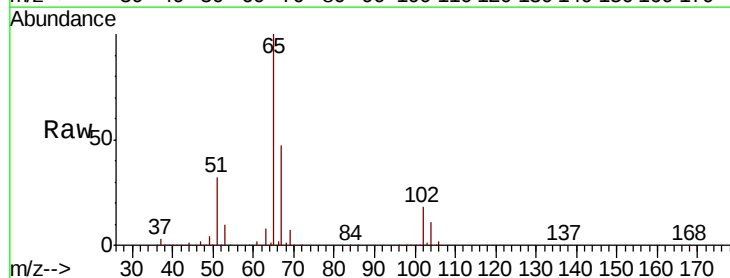
Acq: 13 Oct 2018 00:31

Tgt Ion: 65 Resp: 161283

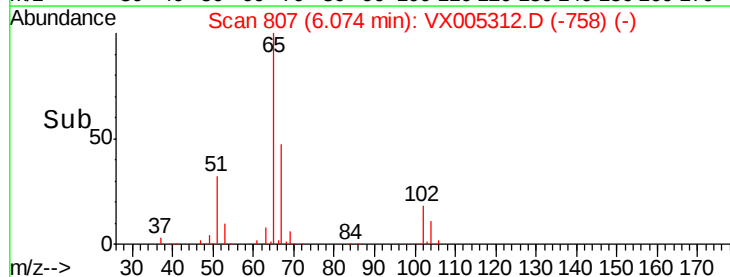
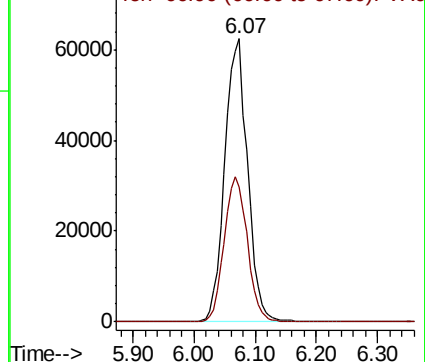
Ion Ratio Lower Upper

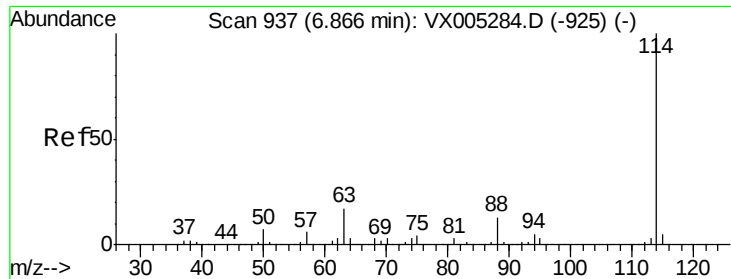
65 100

67 52.2 0.0 106.8



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

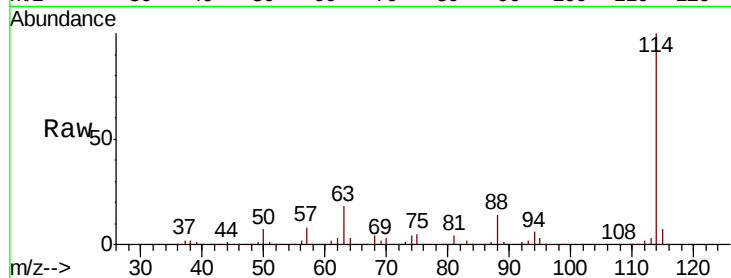




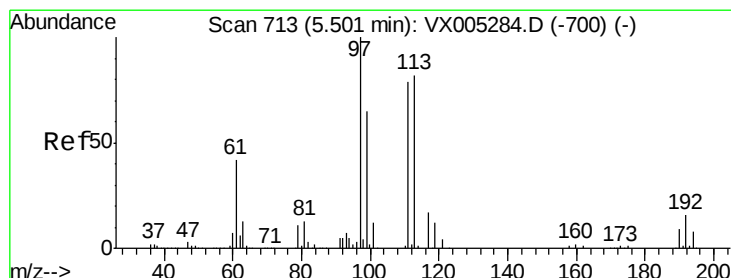
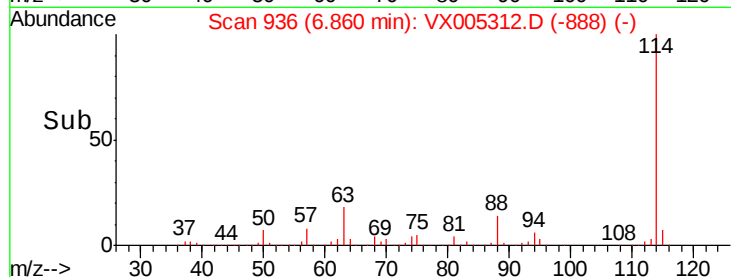
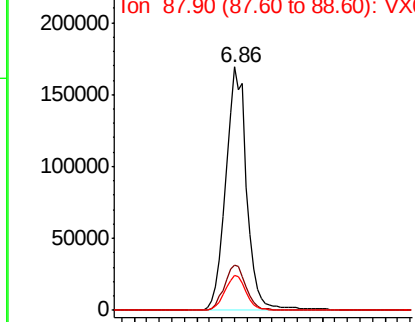
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005312.D
 Acq: 13 Oct 2018 00:31

Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-GMZ5-TB3

Tot Ion:114 Resp: 391126
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 39.0
 88 14.3 0.0 30.4

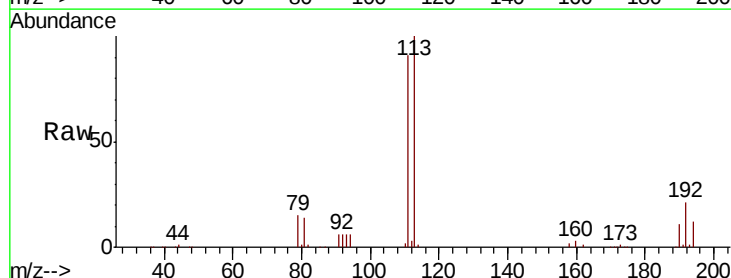


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

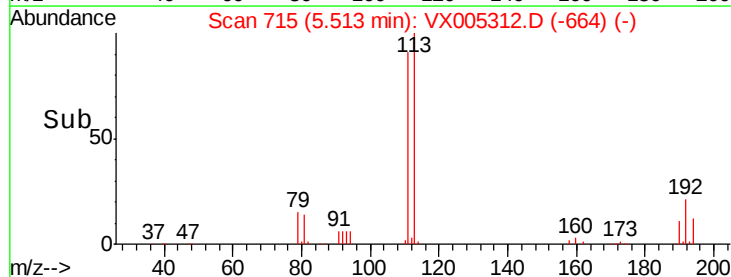
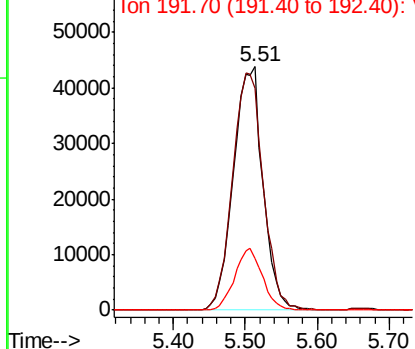


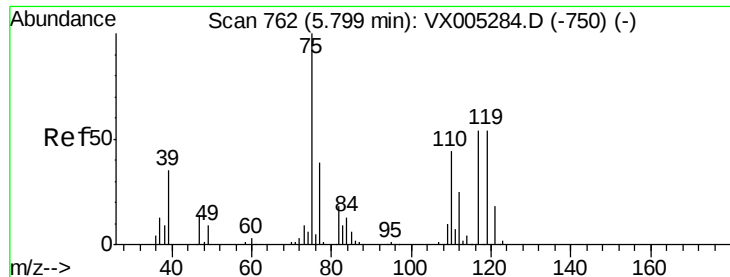
#35
 Dibromofluoromethane
 Concen: 48.243 ug/l
 RT: 5.51 min Scan# 715
 Delta R.T. 0.01 min
 Lab File: VX005312.D
 Acq: 13 Oct 2018 00:31

Tgt Ion:113 Resp: 124975
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.4 123.6
 192 23.7 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: 4.817 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ5-TB3

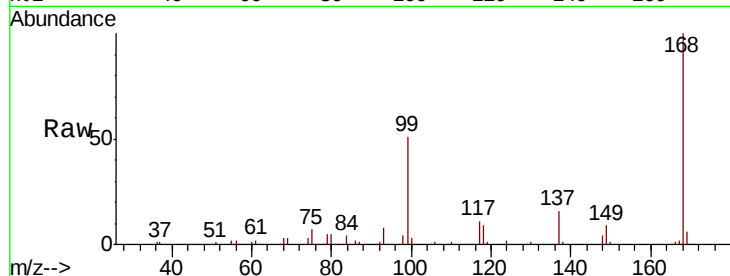
Tot Ion: 75 Resp: 18247

Ion Ratio Lower Upper

75 100

110 8.8 18.0 54.0#

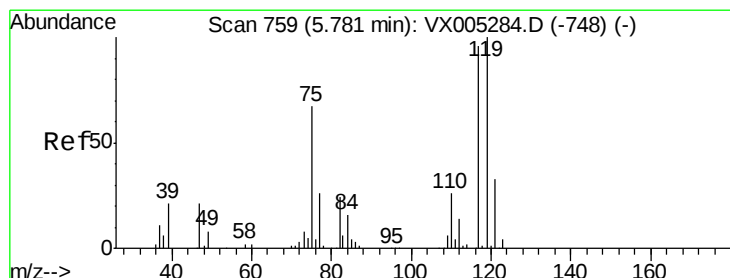
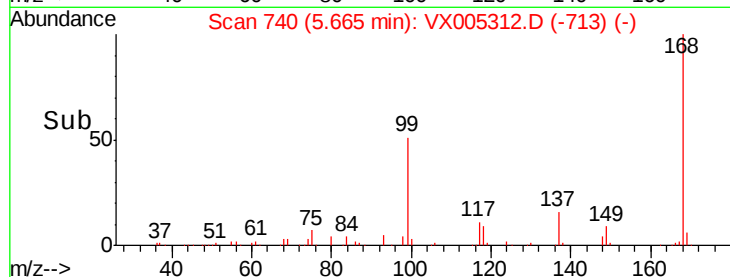
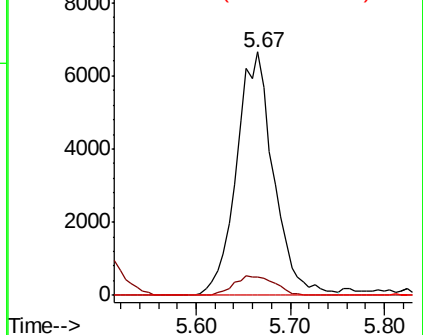
77 0.0 24.6 36.8#



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: 6.694 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

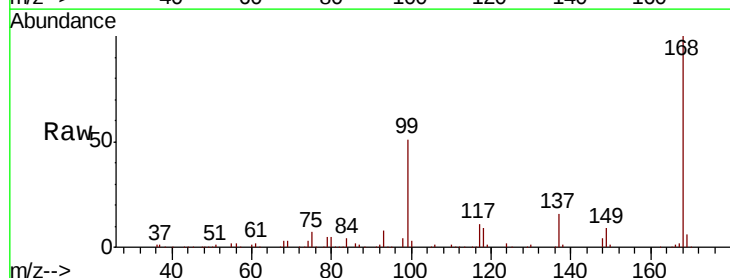
Tgt Ion: 117 Resp: 25478

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

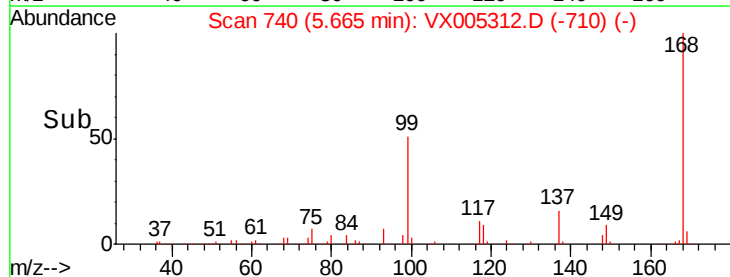
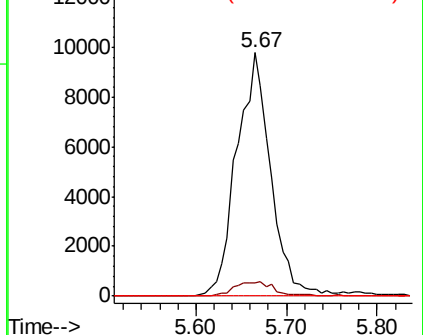
121 0.0 24.9 37.3#

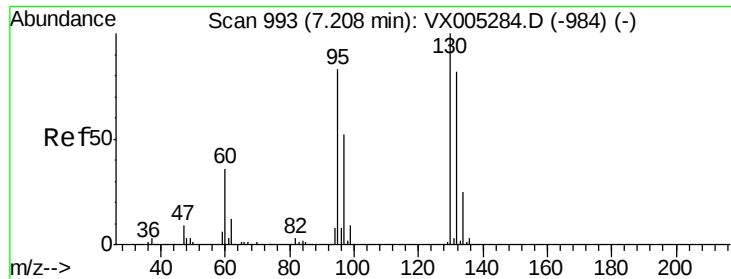


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

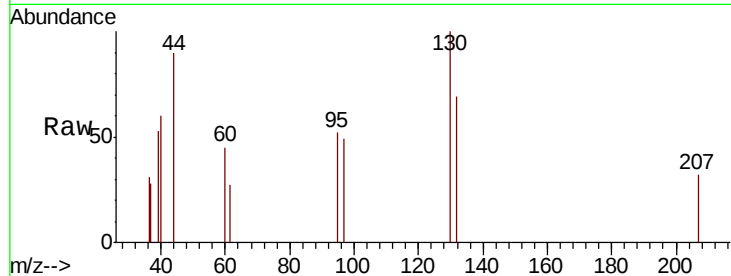
FA18-GMZ5-TB3

Tot Ion:130 Resp: 336

Ion Ratio Lower Upper

130 100

95 51.8 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

200

150

100

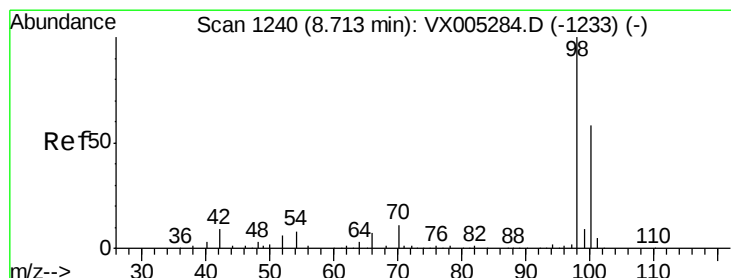
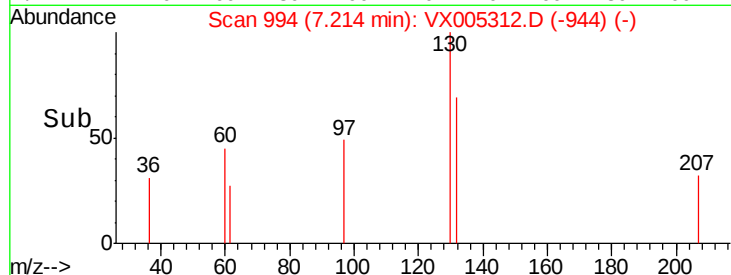
50

0

Time--> 7.15

7.20

7.25



#50

Toluene-d8

Concen: 50.471 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005312.D

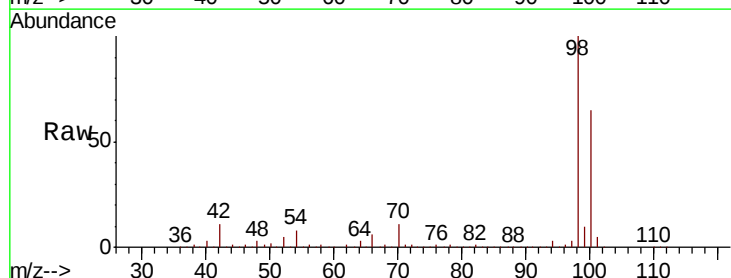
Acq: 13 Oct 2018 00:31

Tgt Ion: 98 Resp: 448859

Ion Ratio Lower Upper

98 100

100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

300000

250000

200000

150000

100000

50000

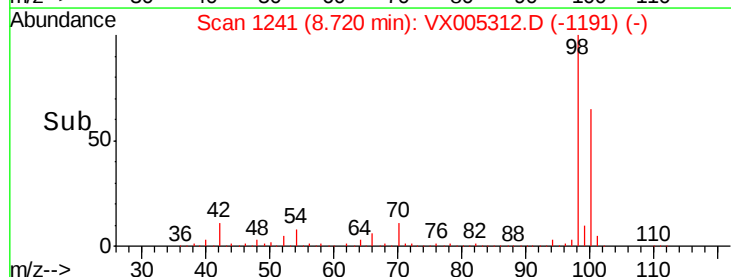
0

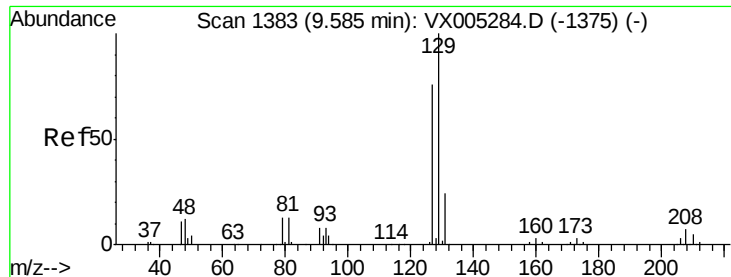
Time--> 8.60

8.70

8.80

8.90





#60

Dibromochloromethane

Concen: 0.226 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

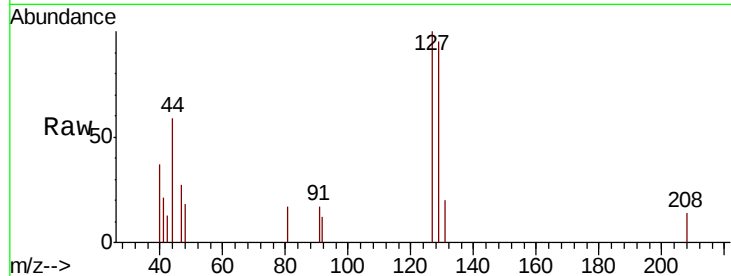
FA18-GMZ5-TB3

Tot Ion:129 Resp: 615

Ion Ratio Lower Upper

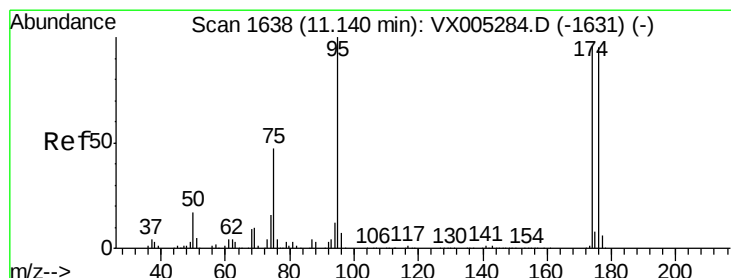
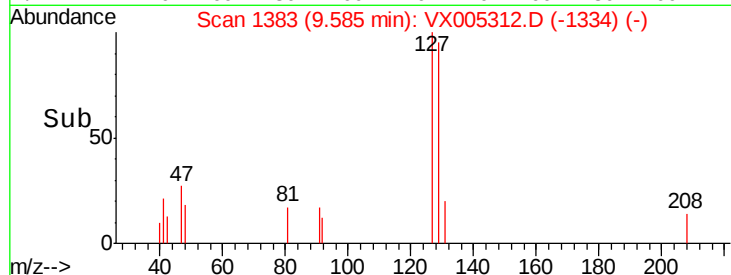
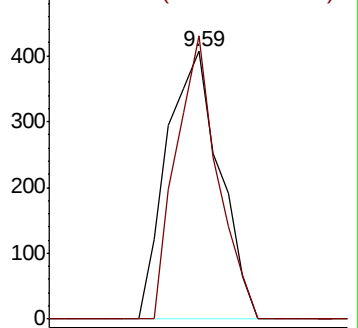
129 100

127 82.9 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.563 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

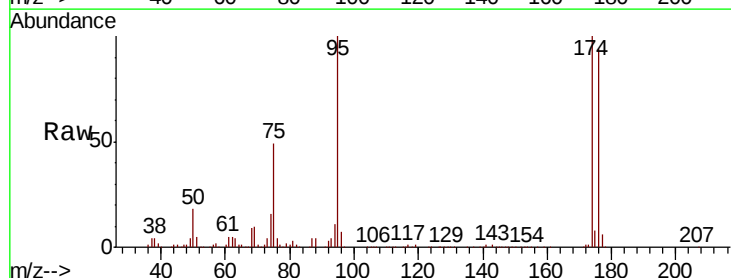
Tgt Ion: 95 Resp: 145543

Ion Ratio Lower Upper

95 100

174 97.0 0.0 185.2

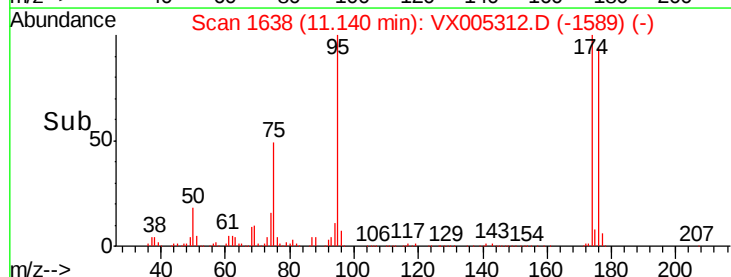
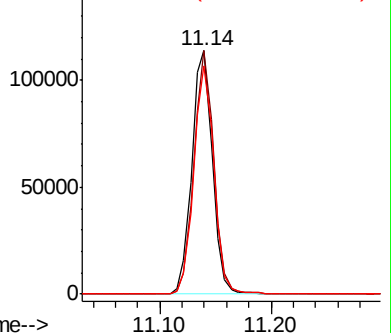
176 92.3 0.0 178.6

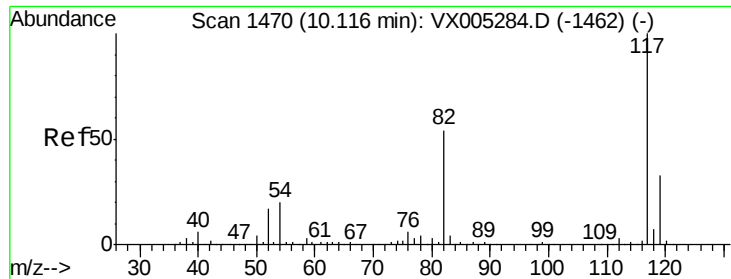


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

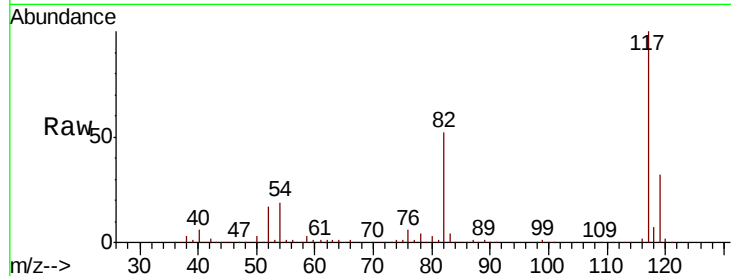




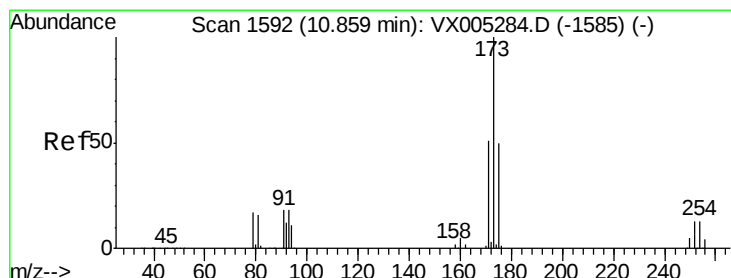
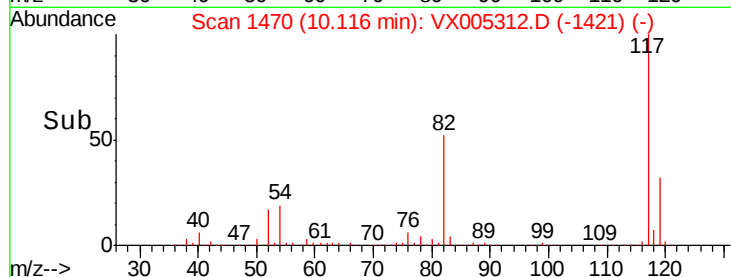
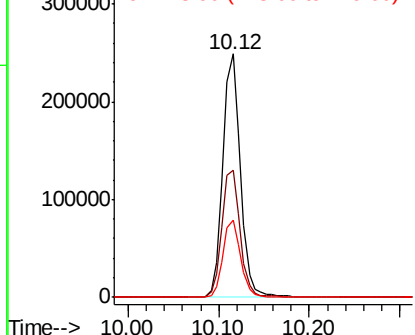
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005312.D
Acq: 13 Oct 2018 00:31

Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-TB3

Tot Ion:117 Resp: 338146
Ion Ratio Lower Upper
117 100
82 52.4 47.8 71.6
119 31.6 29.3 43.9

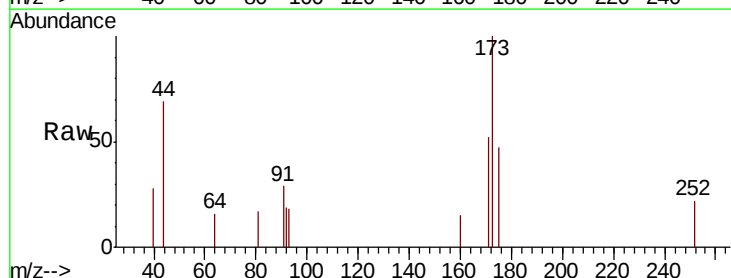


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

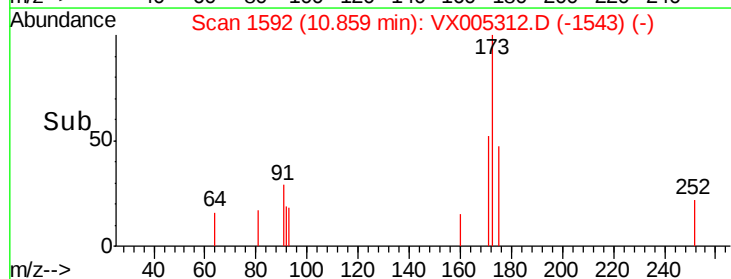
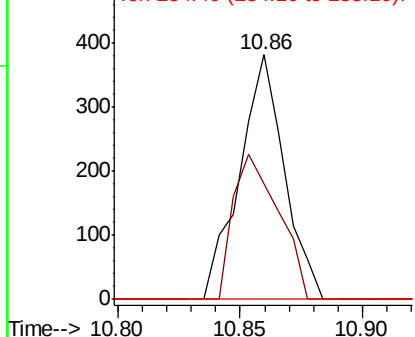


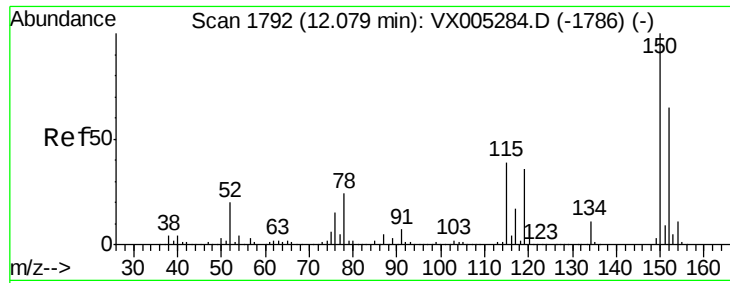
#71
Bromoform
Concen: 0.212 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VX005312.D
Acq: 13 Oct 2018 00:31

Tgt Ion:173 Resp: 486
Ion Ratio Lower Upper
173 100
175 59.7 24.1 72.3
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ5-TB3

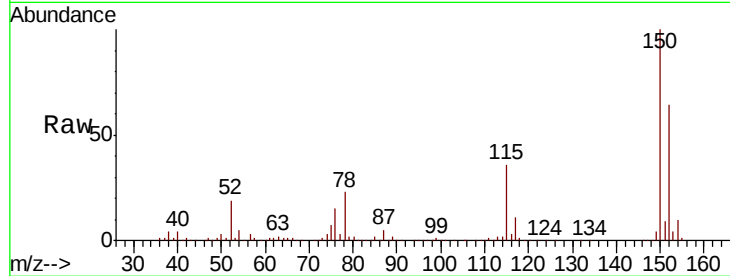
Tot Ion:152 Resp: 162621

Ion Ratio Lower Upper

152 100

115 55.1 39.0 117.0

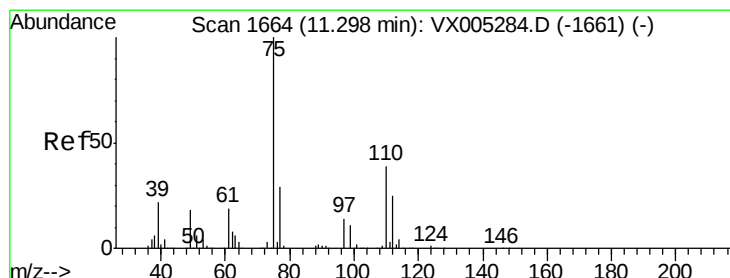
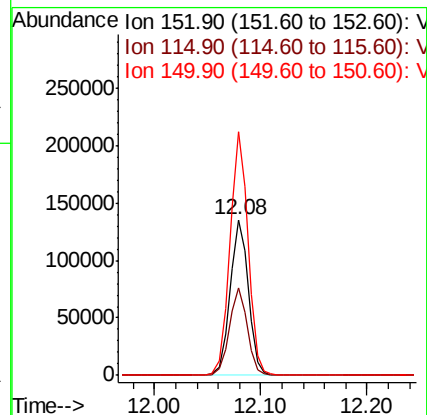
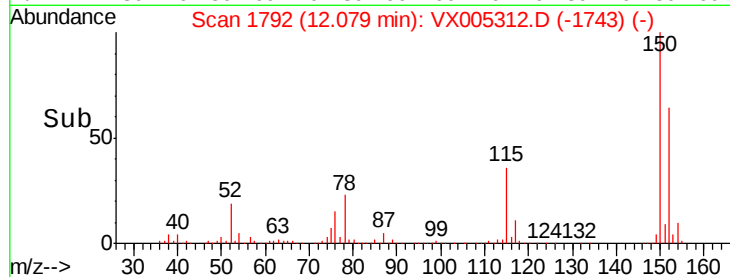
150 155.4 0.0 351.0



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: 22.900 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005312.D

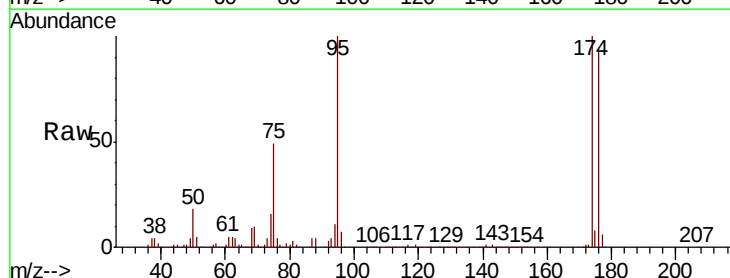
Acq: 13 Oct 2018 00:31

Tgt Ion: 75 Resp: 72235

Ion Ratio Lower Upper

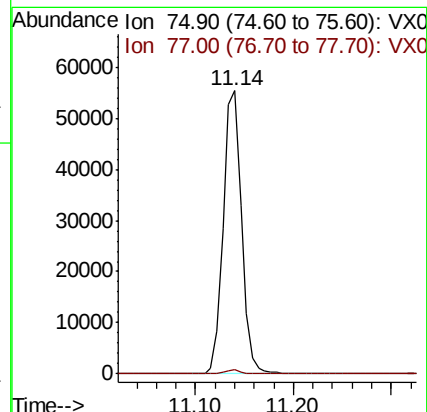
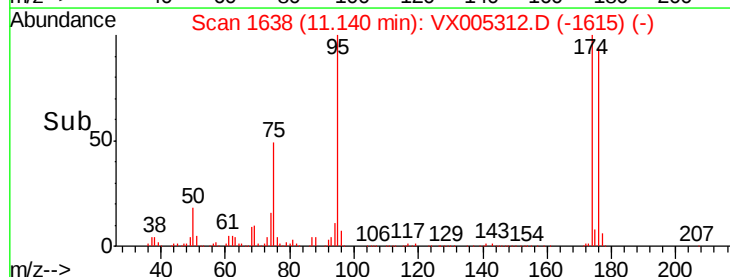
75 100

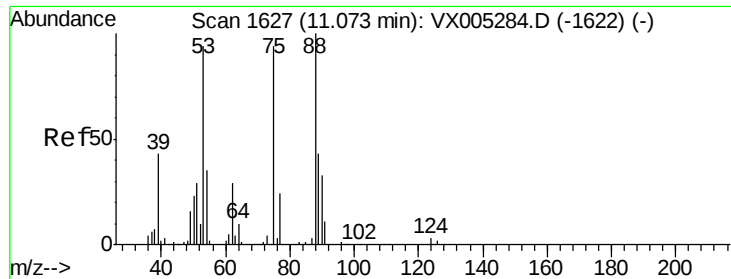
77 1.3 20.2 60.6#



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: 69.581 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005312.D

Acq: 13 Oct 2018 00:31

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ5-TB3

Tot Ion: 75 Resp: 72235

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

