

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042320\
 Data File : VX015882.D
 Acq On : 23 Apr 2020 12:07
 Operator : JC/SP
 Sample : L2385-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-200421

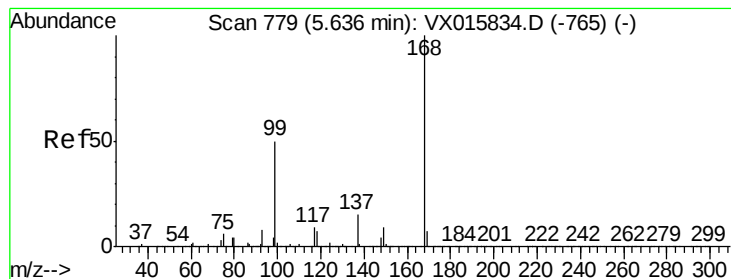
Quant Time: Apr 24 03:27:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042220W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 23 04:36:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	902379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1382703	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1326955	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	735805	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	504455	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
35) Dibromofluoromethane	5.47	113	401204	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
50) Toluene-d8	8.70	98	1674565	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.12	95	694611	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1417	0.461	ug/l #	40
11) Tert butyl alcohol	3.01	59	615	0.293	ug/l #	1
13) Acrolein	2.23	56	541	0.436	ug/l #	4
15) Acrylonitrile	3.12	53	2105	0.432	ug/l #	72
16) Acetone	2.42	43	5632	1.260	ug/l #	46
17) Carbon Disulfide	2.56	76	18294	0.637	ug/l #	92
21) trans-1,2-Dichloroethene	3.15	96	2031	0.232	ug/l #	16
28) Bromochloromethane	5.00	49	1740	0.210	ug/l #	63
29) Tetrahydrofuran	4.90	42	1179	0.252	ug/l #	91
36) 1,1-Dichloropropene	5.62	75	59602	4.862	ug/l #	53
38) Carbon Tetrachloride	5.63	117	80084	6.633	ug/l #	17
42) 1,2-Dichloroethane	6.17	62	2712	0.204	ug/l #	97
49) 1,4-Dioxane	7.72	88	295	1.290	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	3308	0.233	ug/l #	74
59) 2-Hexanone	9.47	43	3611	0.334	ug/l #	88
68) m/p-Xylenes	10.35	106	3967	0.227	ug/l #	73
76) 1,2,3-Trichloropropane	11.12	75	341310	24.393	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	341310	58.679	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	1144	0.390	ug/l #	77
93) 1,2,4-Trichlorobenzene	13.63	180	4807	0.274	ug/l #	83
94) Hexachlorobutadiene	13.77	225	2949	0.376	ug/l #	92
95) Naphthalene	13.82	128	15439	0.306	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.01	180	4461	0.261	ug/l #	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

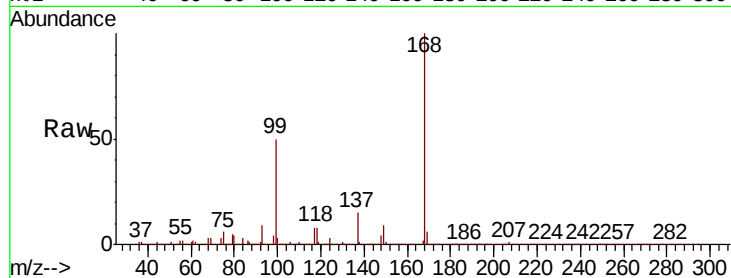
TB-01-200421

Tot Ion:168 Resp: 902379

Ion Ratio Lower Upper

168 100

99 50.2 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

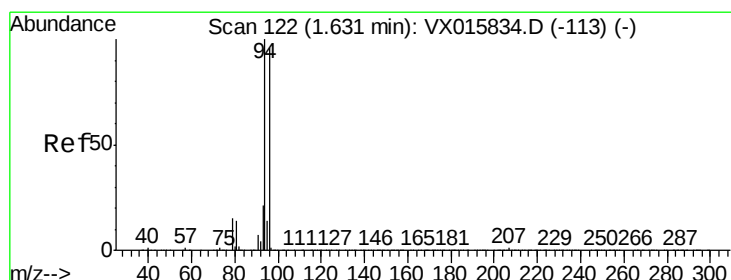
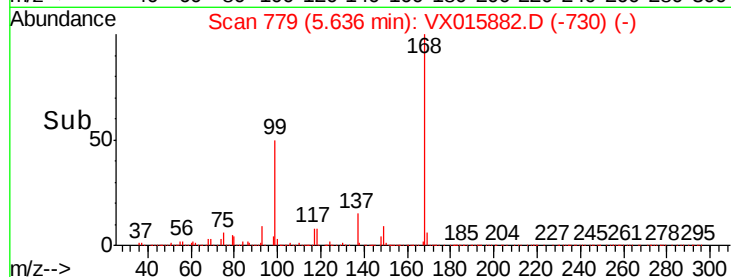
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.461 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015882.D

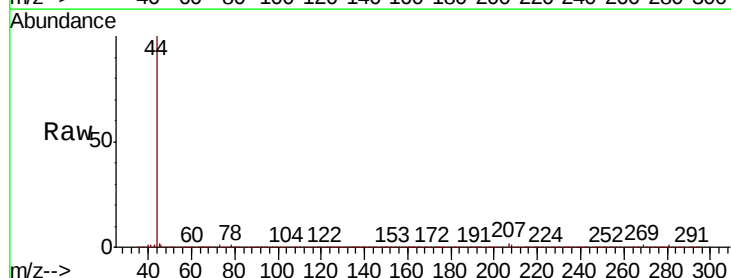
Acq: 23 Apr 2020 12:07

Tgt Ion: 94 Resp: 1417

Ion Ratio Lower Upper

94 100

96 37.8 76.7 115.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

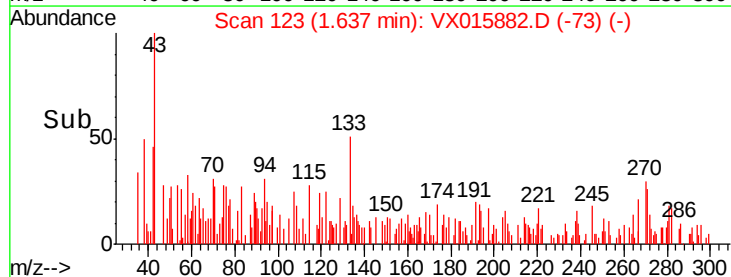
1500

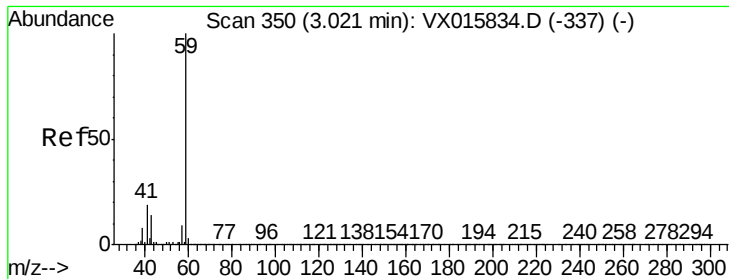
1000

500

0

Time-->



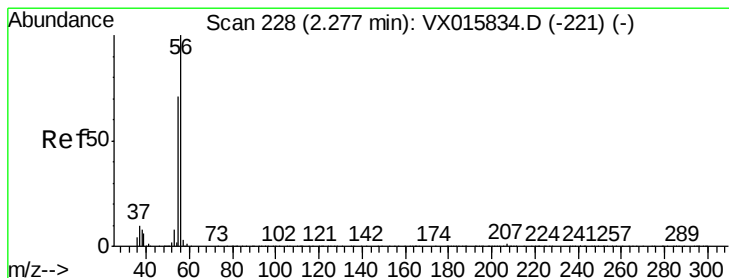
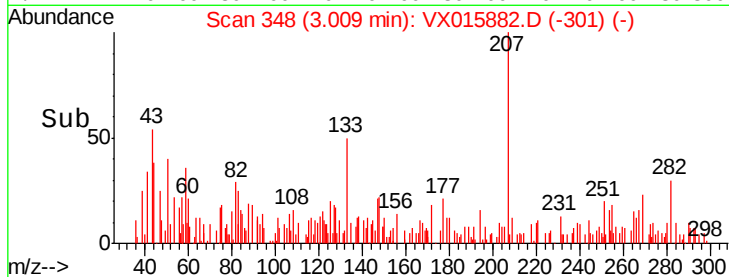
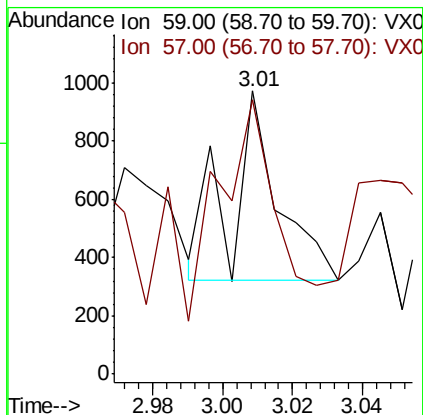
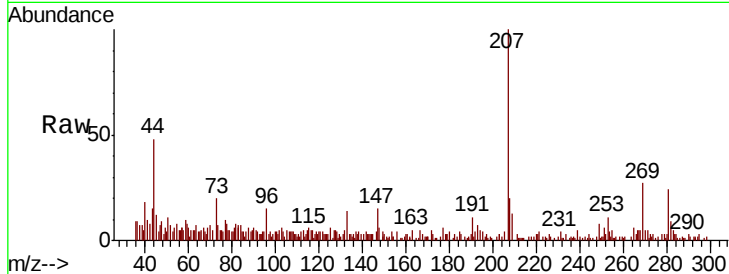


#11

Tert butyl alcohol
Concen: 0.293 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.01 min
Lab File: VX015882.D
Acq: 23 Apr 2020 12:07

Instrument :
MSVOA_X
ClientSampled :
TB-01-200421

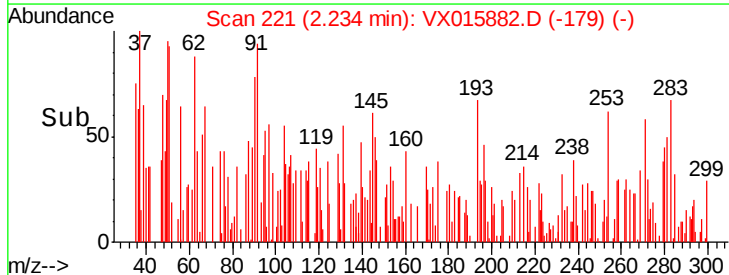
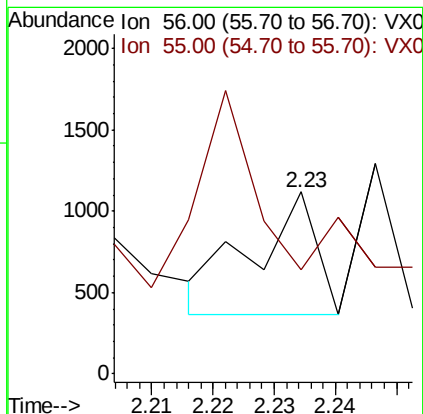
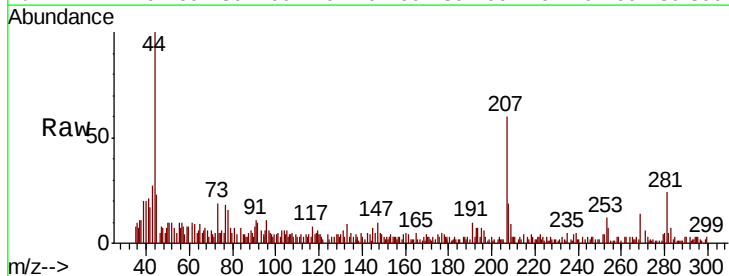
Tot Ion: 59 Resp: 615
Ion Ratio Lower Upper
59 100
57 140.3 8.2 12.2#

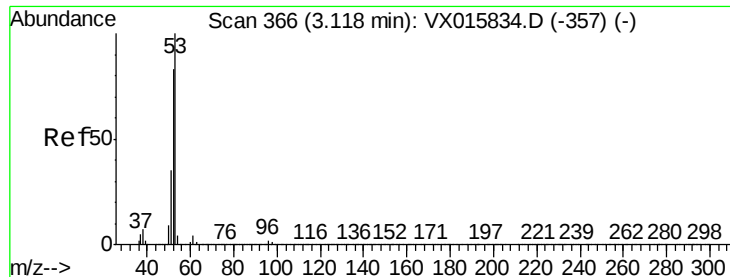


#13

Acrolein
Concen: 0.436 ug/l
RT: 2.23 min Scan# 221
Delta R.T. -0.04 min
Lab File: VX015882.D
Acq: 23 Apr 2020 12:07

Tgt Ion: 56 Resp: 541
Ion Ratio Lower Upper
56 100
55 148.8 56.1 84.1#





#15

Acrylonitrile

Concen: 0.432 ug/l

RT: 3.12 min Scan# 366

Delta R.T. 0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampled :

TB-01-200421

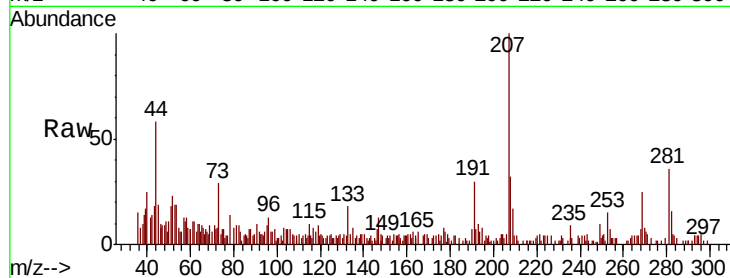
Tot Ion: 53 Resp: 2105

Ion Ratio Lower Upper

53 100

52 95.4 66.2 99.4

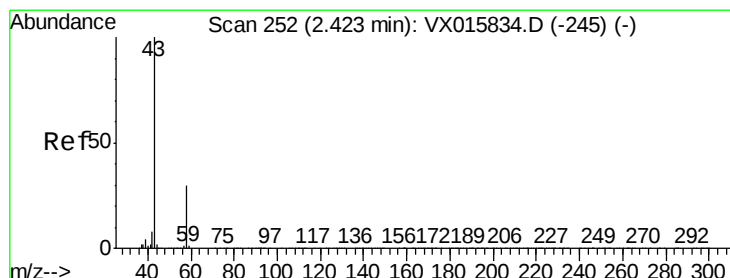
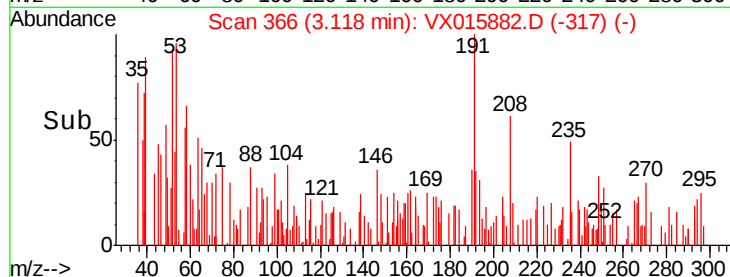
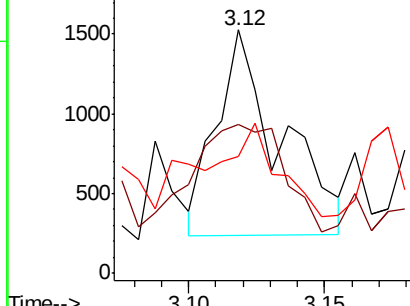
51 0.0 28.6 43.0#



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: 1.260 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.00 min

Lab File: VX015882.D

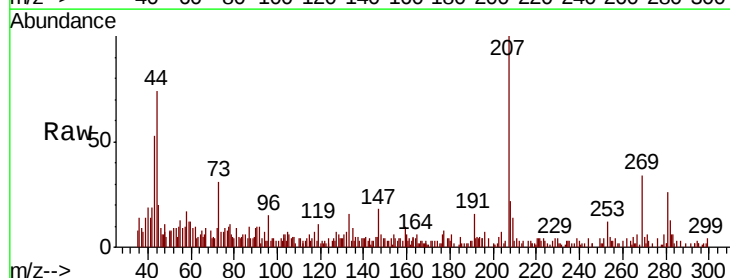
Acq: 23 Apr 2020 12:07

Tgt Ion: 43 Resp: 5632

Ion Ratio Lower Upper

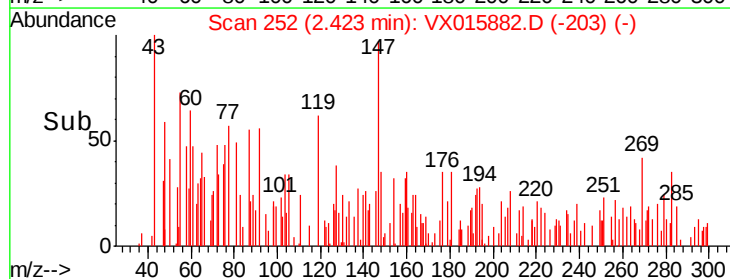
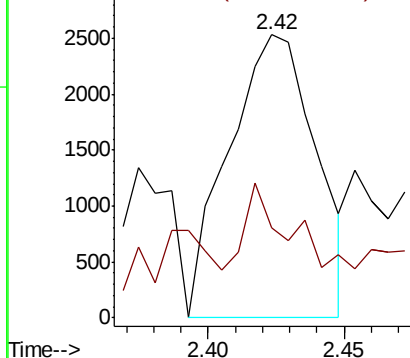
43 100

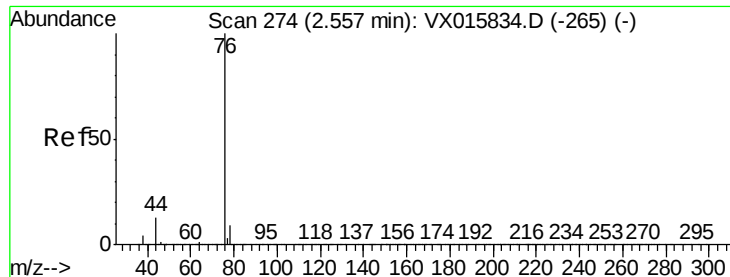
58 0.9 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.637 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

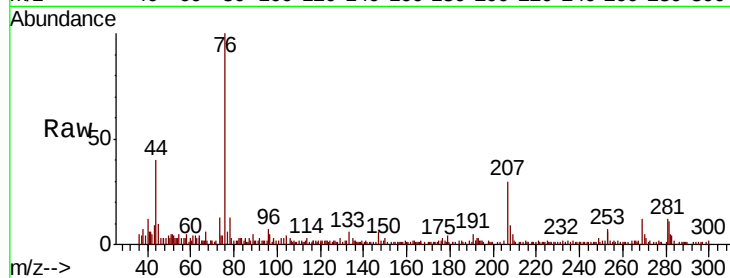
TB-01-200421

Tot Ion: 76 Resp: 18294

Ion Ratio Lower Upper

76 100

78 12.2 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

12000

10000

8000

6000

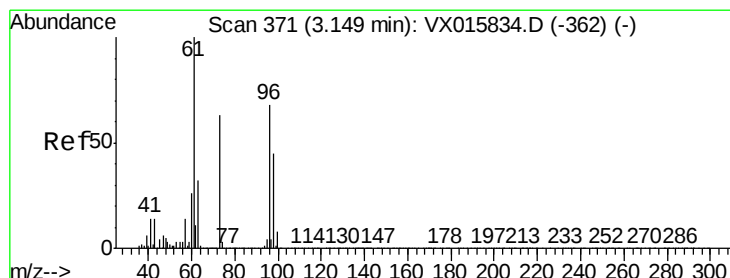
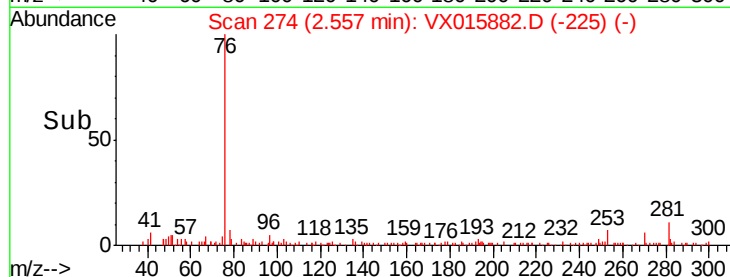
4000

2000

0

2.50 2.55 2.60

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.232 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

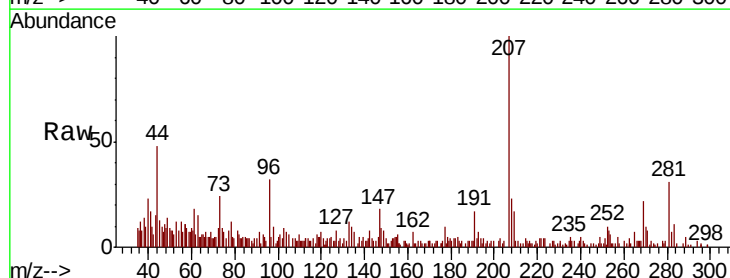
Tgt Ion: 96 Resp: 2031

Ion Ratio Lower Upper

96 100

61 33.5 117.5 176.3#

98 11.5 52.7 79.1#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

2000

1500

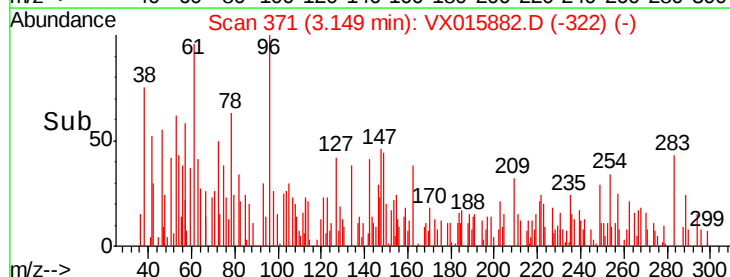
1000

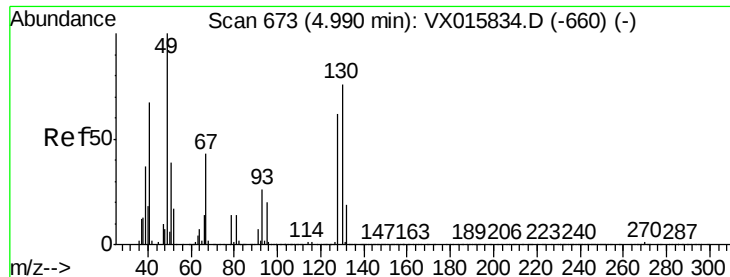
500

0

3.10 3.15 3.20

Time-->





#28

Bromochloromethane

Concen: 0.210 ug/l

RT: 5.00 min Scan# 674

Delta R.T. 0.01 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampled :

TB-01-200421

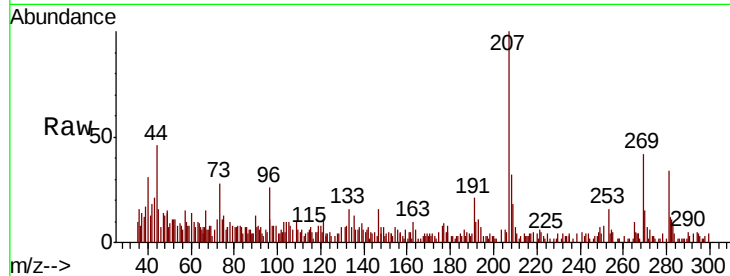
Tot Ion: 49 Resp: 1740

Ion Ratio Lower Upper

49 100

129 0.0 0.0 1.8

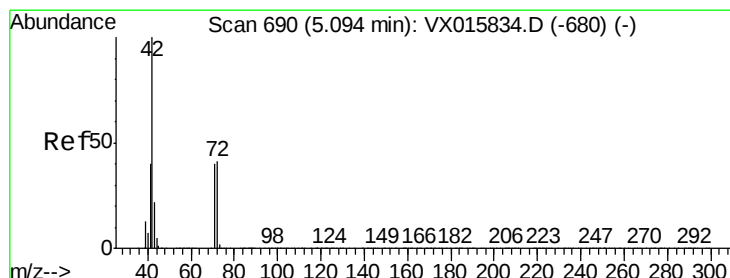
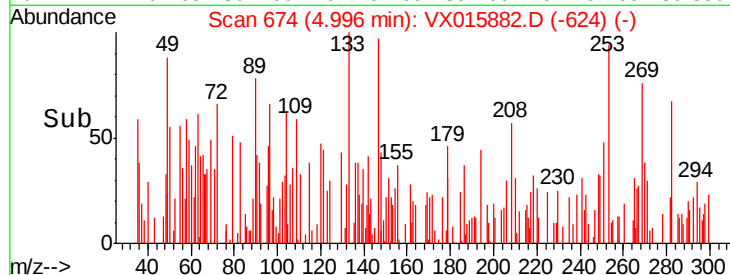
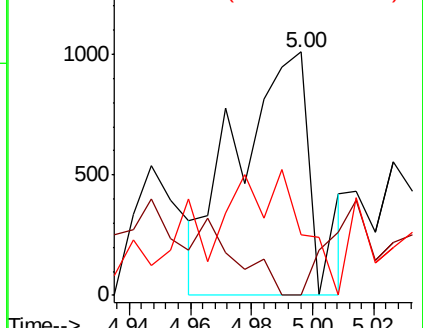
130 45.7 62.4 93.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 4.90 min Scan# 658

Delta R.T. -0.20 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

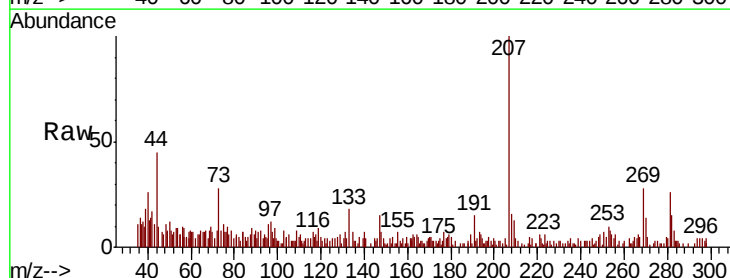
Tgt Ion: 42 Resp: 1179

Ion Ratio Lower Upper

42 100

72 49.5 33.0 49.6

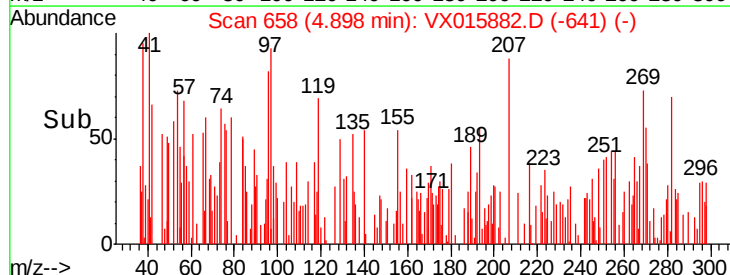
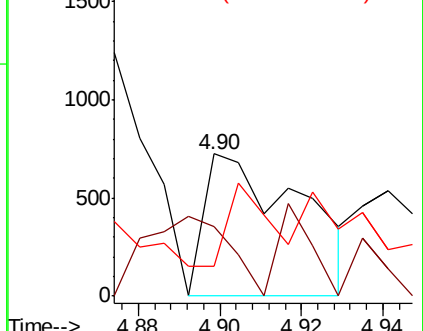
71 35.4 30.6 45.8

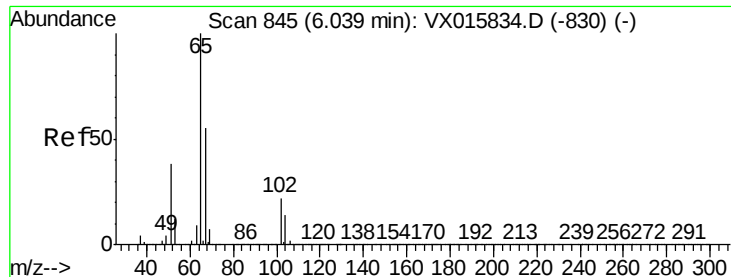


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.152 ug/l

RT: 6.04 min Scan# 845

Delta R.T. -0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

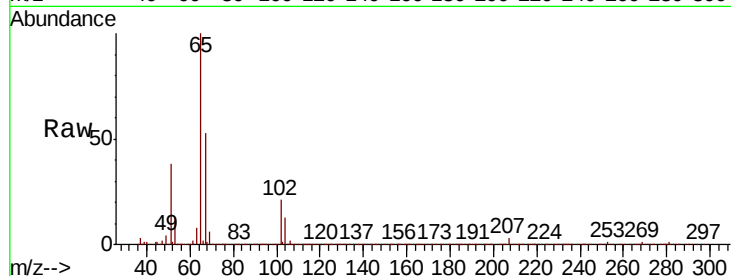
TB-01-200421

Tot Ion: 65 Resp: 504455

Ion Ratio Lower Upper

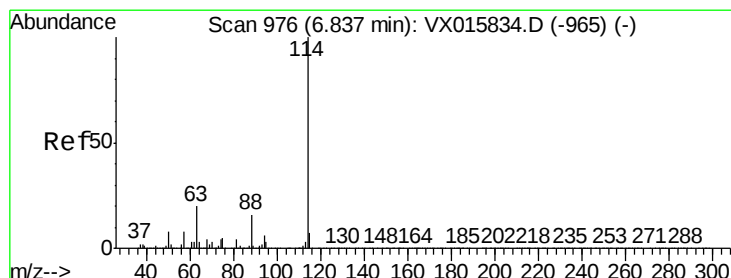
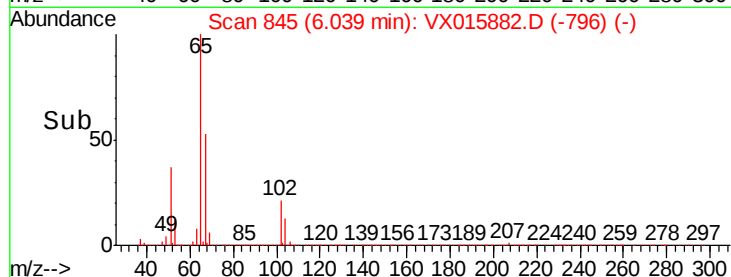
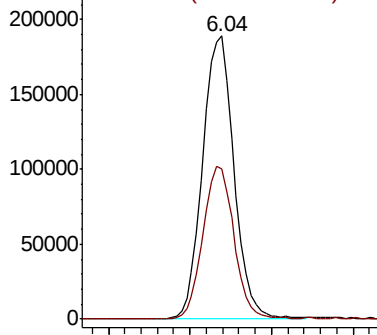
65 100

67 53.0 0.0 104.2



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: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

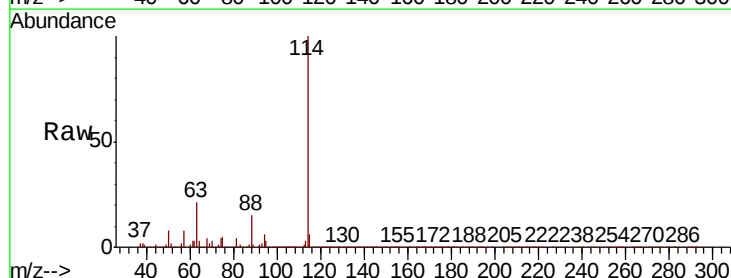
Tgt Ion: 114 Resp: 1382703

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.6

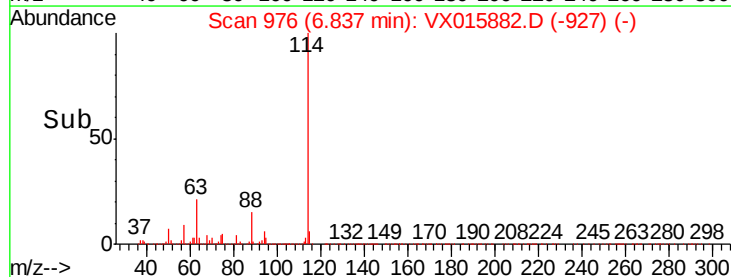
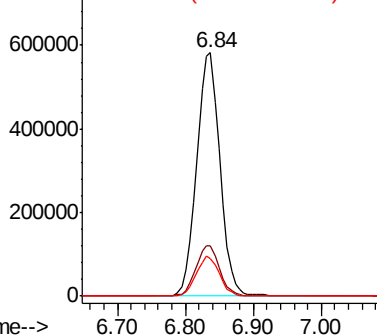
88 15.2 0.0 32.8

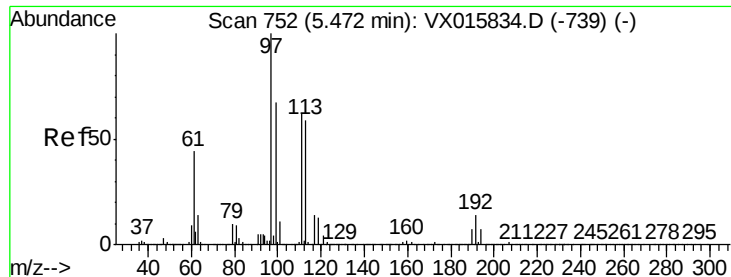


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

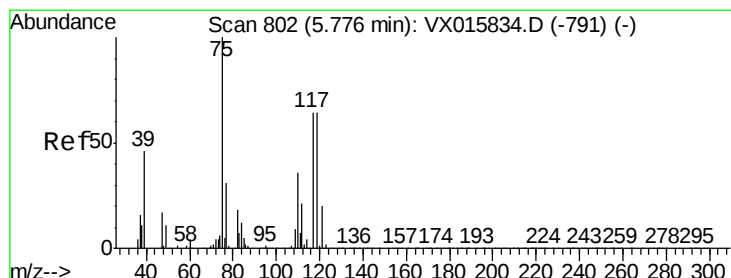
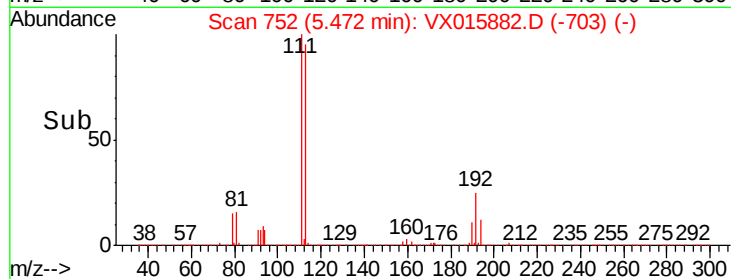
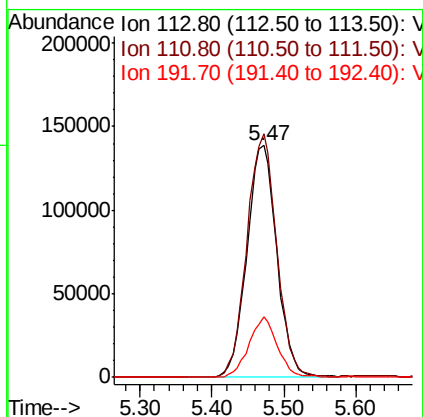
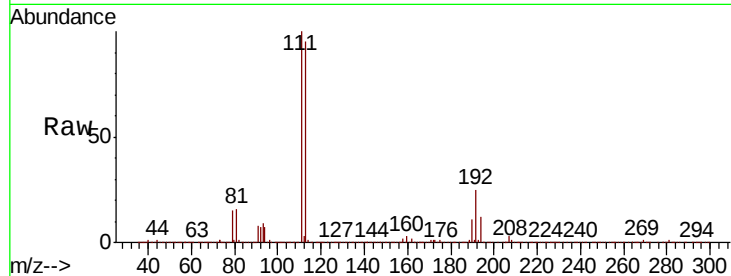




#35
Dibromofluoromethane
Concen: 50.268 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015882.D
Acq: 23 Apr 2020 12:07

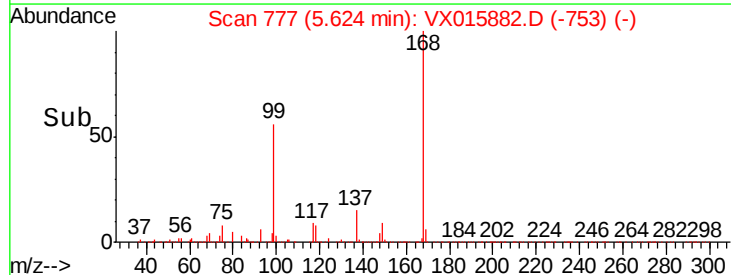
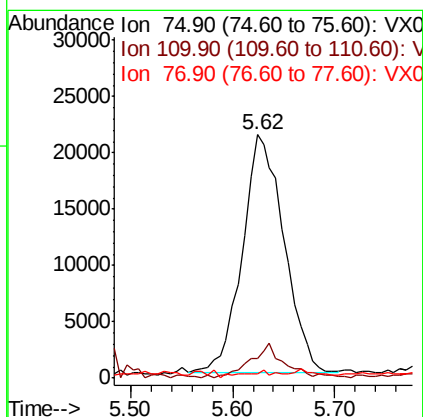
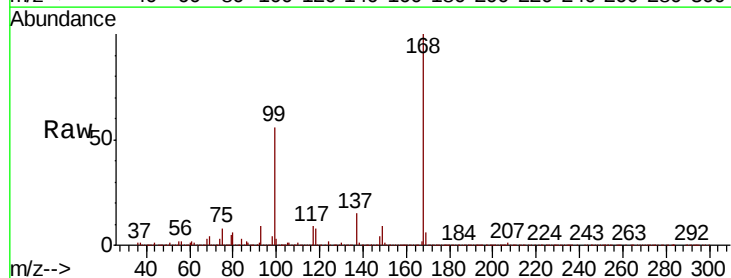
Instrument :
MSVOA_X
ClientSampleId :
TB-01-200421

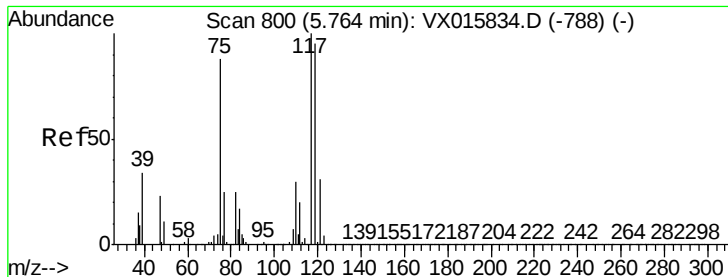
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.7	124.1
192	24.8	19.3	28.9



#36
1,1-Dichloropropene
Concen: 4.862 ug/l
RT: 5.62 min Scan# 777
Delta R.T. -0.15 min
Lab File: VX015882.D
Acq: 23 Apr 2020 12:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.4	17.9	53.8#
77	1.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.633 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200421

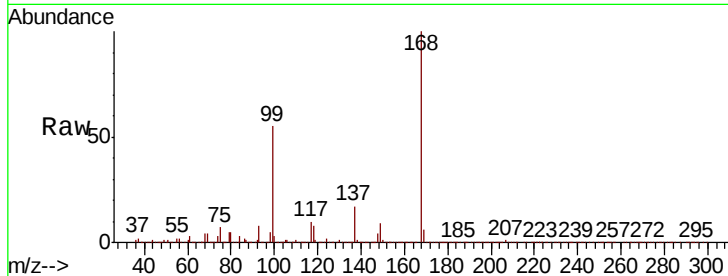
Tot Ion:117 Resp: 80084

Ion Ratio Lower Upper

117 100

119 4.2 75.7 113.5#

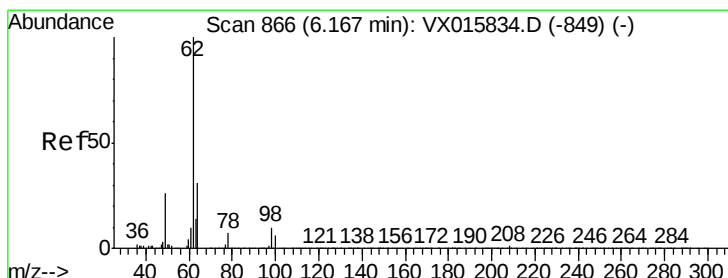
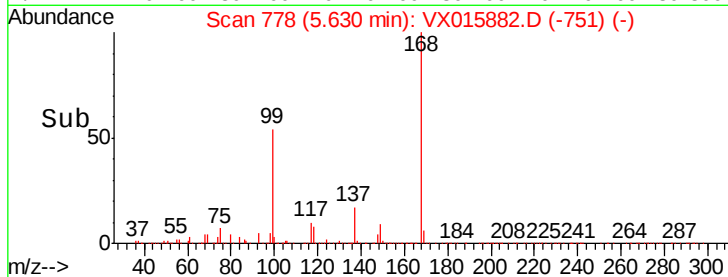
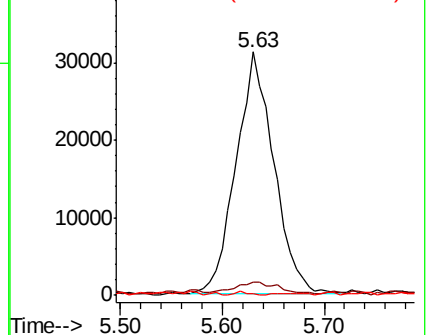
121 1.9 25.0 37.6#



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



#42

1,2-Dichloroethane

Concen: 0.204 ug/l

RT: 6.17 min Scan# 866

Delta R.T. 0.00 min

Lab File: VX015882.D

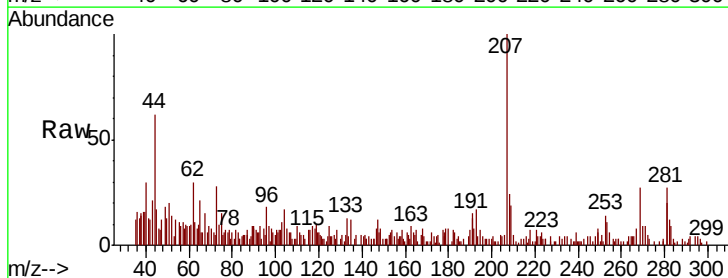
Acq: 23 Apr 2020 12:07

Tgt Ion: 62 Resp: 2712

Ion Ratio Lower Upper

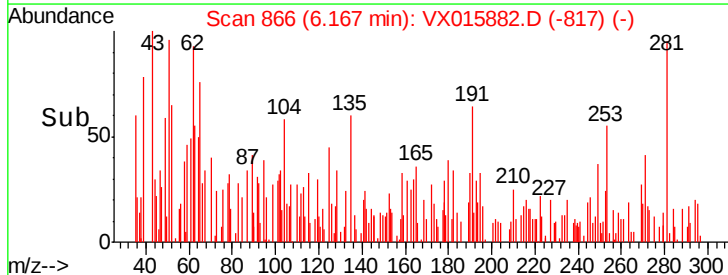
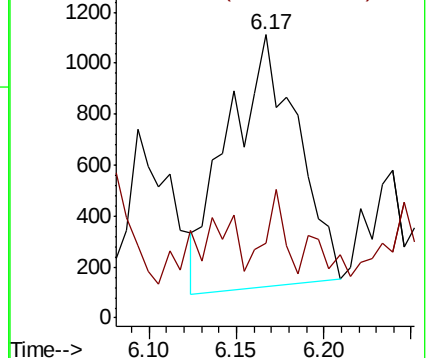
62 100

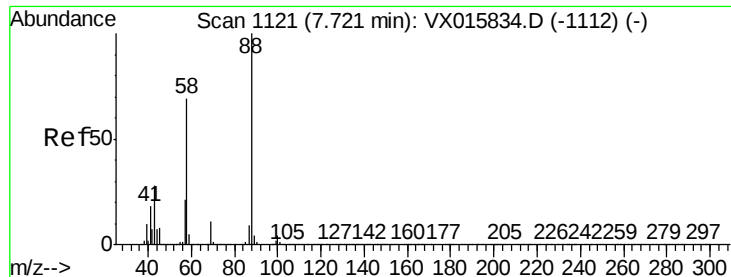
98 9.0 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

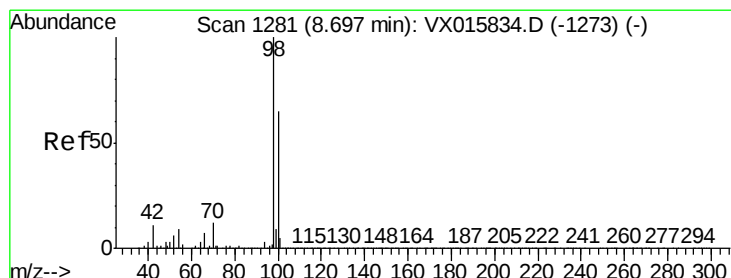
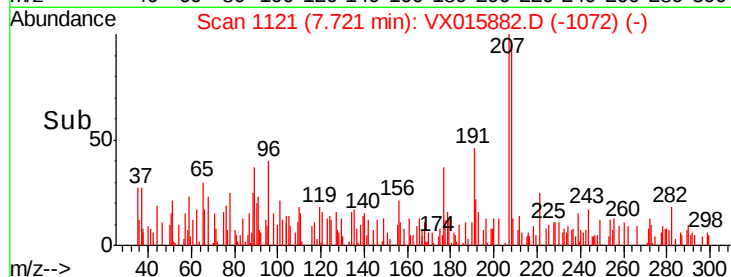
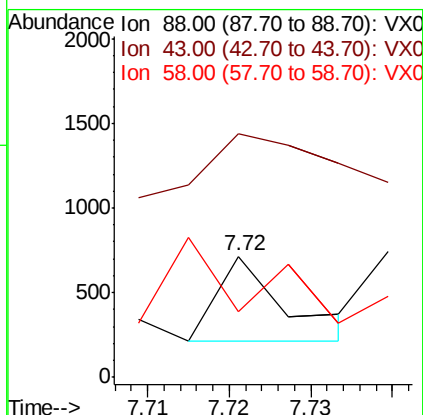
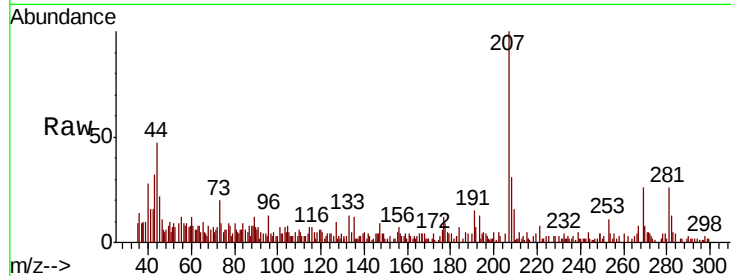




#49
1,4-Dioxane
Concen: 1.290 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VX015882.D
Acq: 23 Apr 2020 12:07

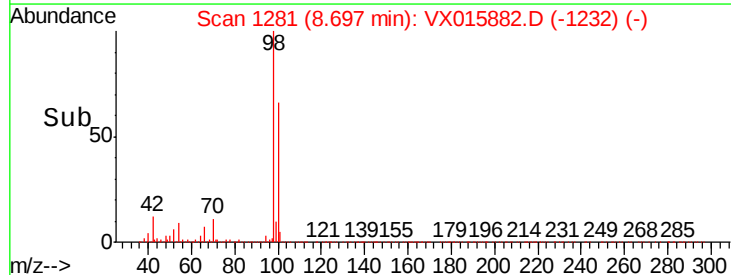
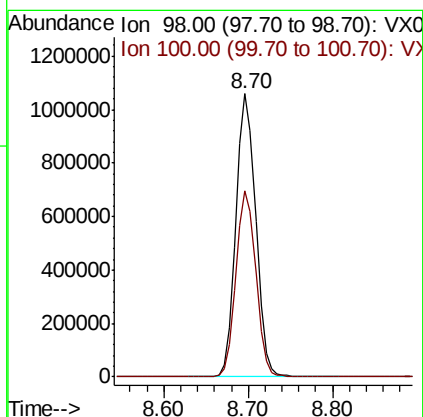
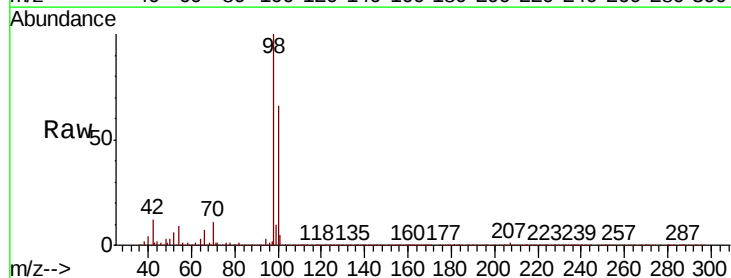
Instrument :
MSVOA_X
ClientSampled :
TB-01-200421

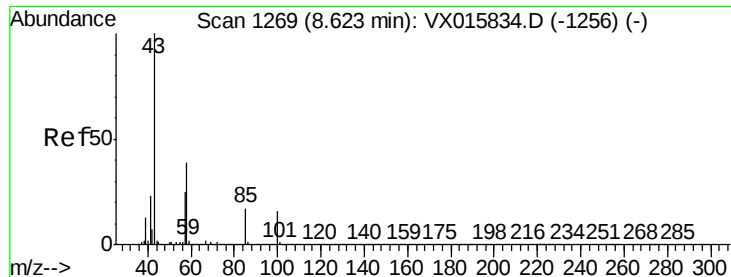
Tot Ion: 88 Resp: 295
Ion Ratio Lower Upper
88 100
43 133.2 28.2 42.4#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 52.119 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015882.D
Acq: 23 Apr 2020 12:07

Tgt Ion: 98 Resp: 1674565
Ion Ratio Lower Upper
98 100
100 65.9 53.8 80.6

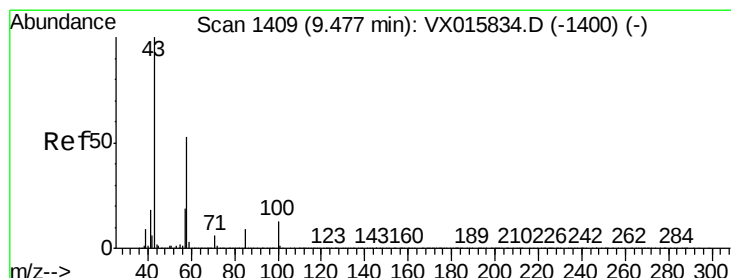
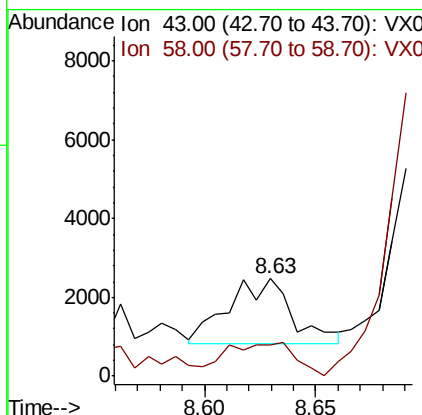
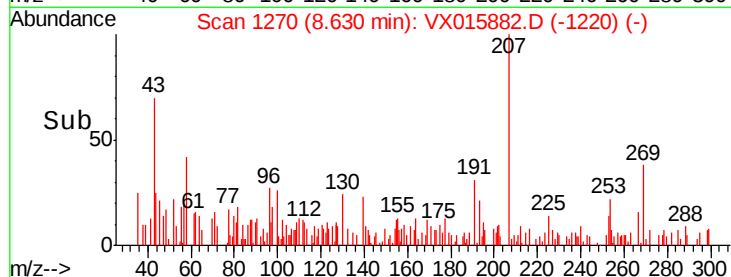
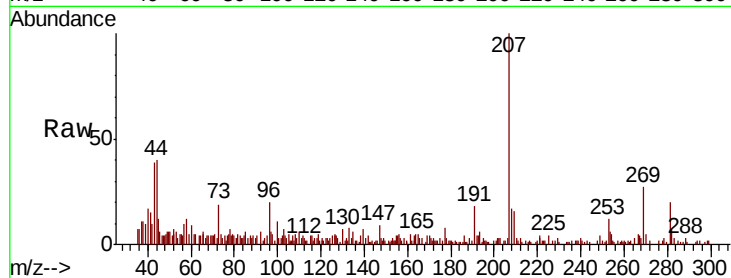




#51
 4-Methyl-2-Pentanone
 Concen: 0.233 ug/l
 RT: 8.63 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VX015882.D
 Acq: 23 Apr 2020 12:07

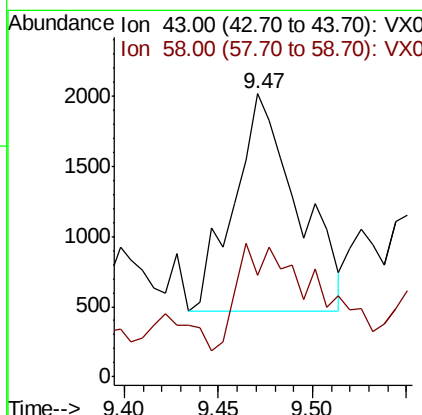
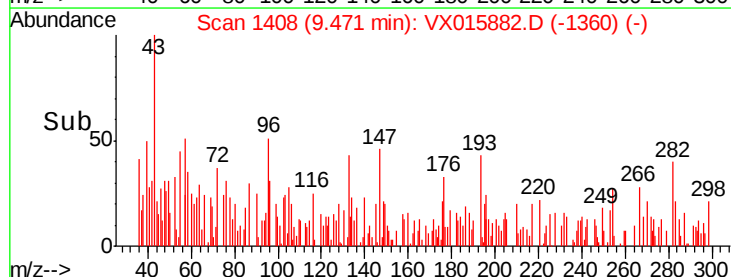
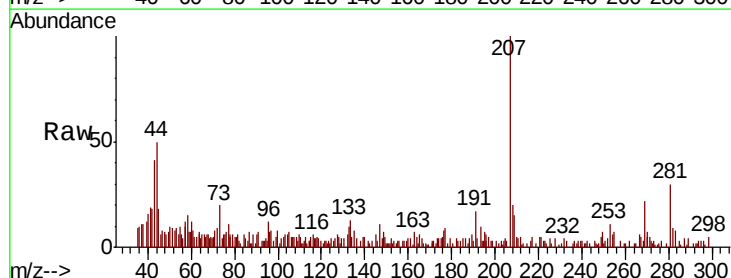
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-200421

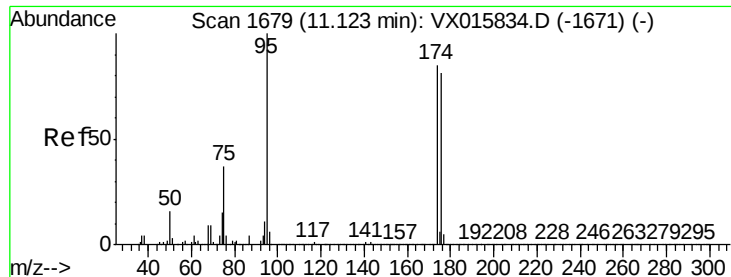
Tot Ion: 43 Resp: 3308
 Ion Ratio Lower Upper
 43 100
 58 54.1 30.6 45.8#



#59
 2-Hexanone
 Concen: 0.334 ug/l
 RT: 9.47 min Scan# 1408
 Delta R.T. -0.01 min
 Lab File: VX015882.D
 Acq: 23 Apr 2020 12:07

Tgt Ion: 43 Resp: 3611
 Ion Ratio Lower Upper
 43 100
 58 61.7 26.5 79.4





#62

4-Bromofluorobenzene

Concen: 52.700 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200421

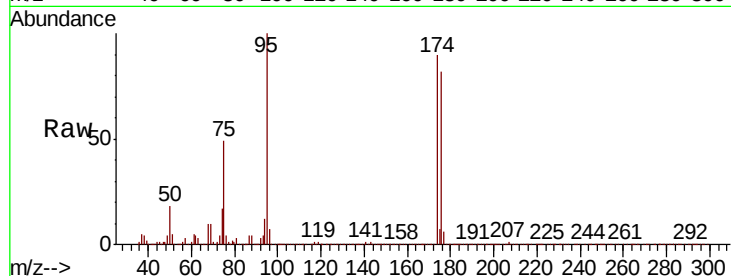
Tot Ion: 95 Resp: 694611

Ion Ratio Lower Upper

95 100

174 87.1 0.0 172.4

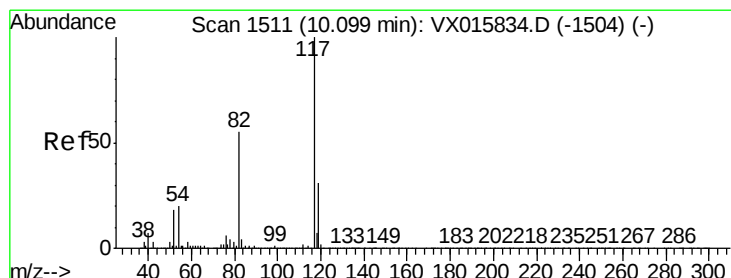
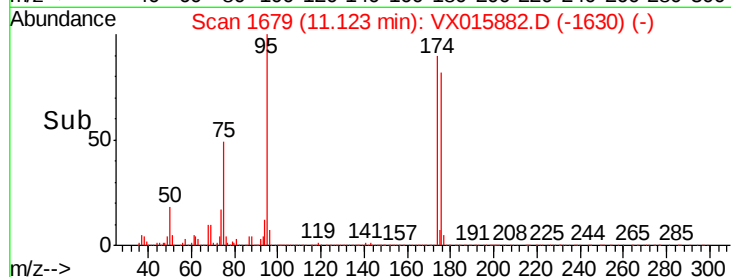
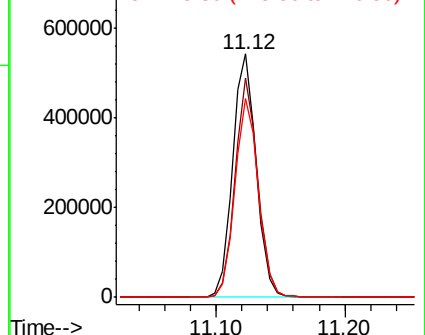
176 81.5 0.0 167.0



Abundance Ion 94.90 (94.60 to 95.60): VX015882.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX015882.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015882.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

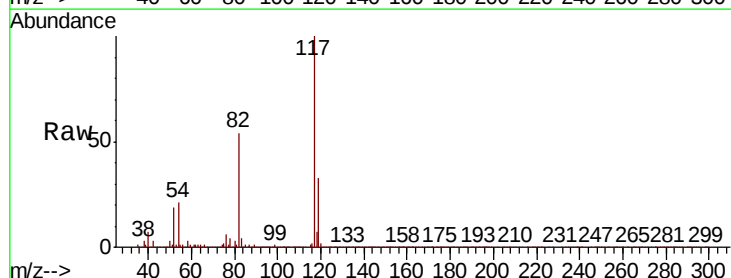
Tgt Ion: 117 Resp: 1326955

Ion Ratio Lower Upper

117 100

82 54.4 43.9 65.9

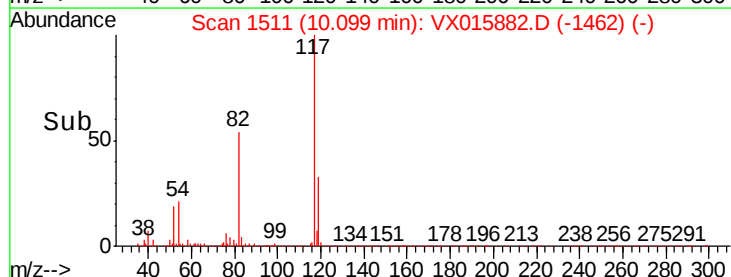
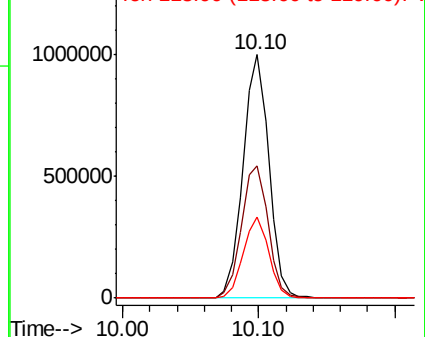
119 33.4 25.1 37.7

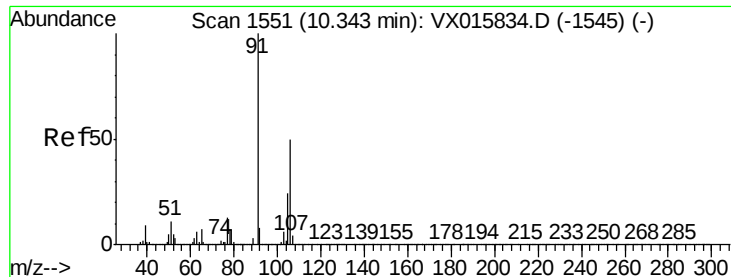


Abundance Ion 116.90 (116.60 to 117.60): VX015882.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015882.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015882.D (-1462) (-)





#68

m/p-Xvlenes

Concen: 0.227 ug/l

RT: 10.35 min Scan# 1552

Delta R.T. 0.01 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

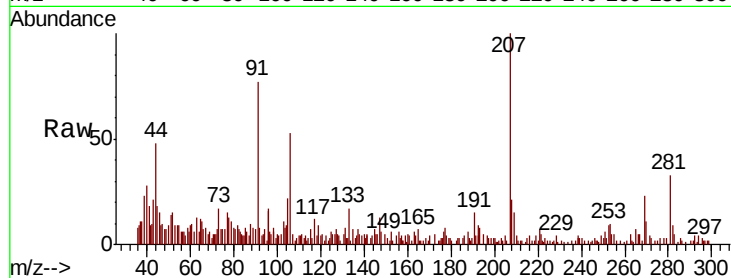
TB-01-200421

Tot Ion:106 Resp: 3967

Ion Ratio Lower Upper

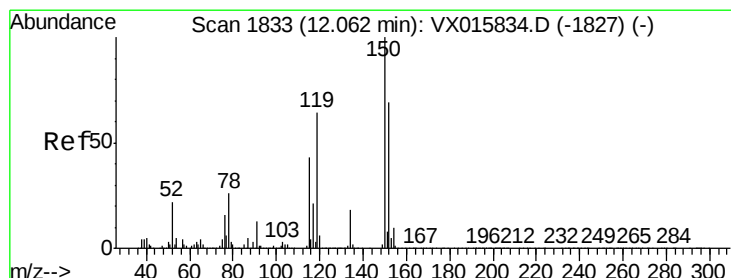
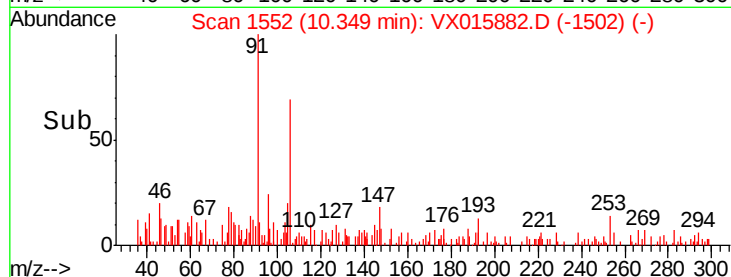
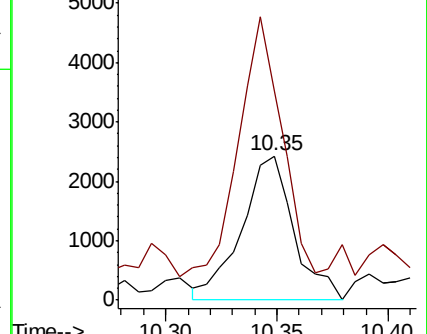
106 100

91 160.1 161.1 241.7#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

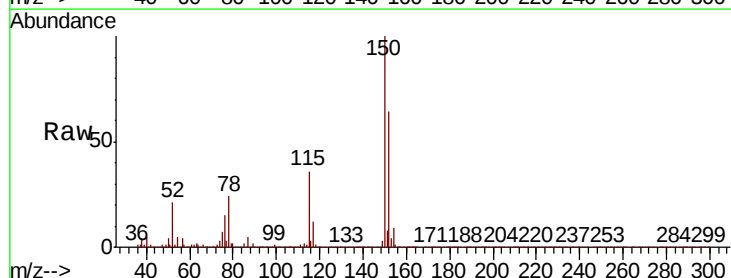
Tgt Ion:152 Resp: 735805

Ion Ratio Lower Upper

152 100

115 56.6 39.0 116.9

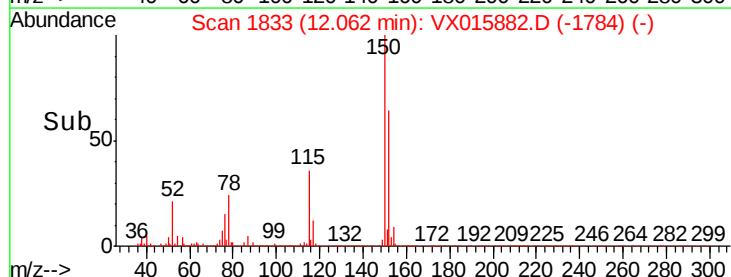
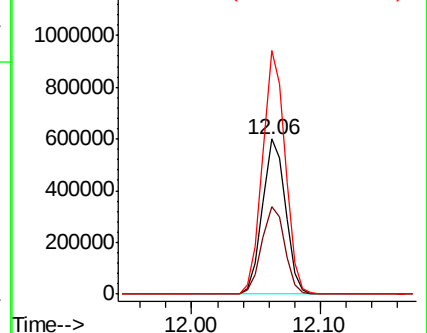
150 154.2 0.0 336.8

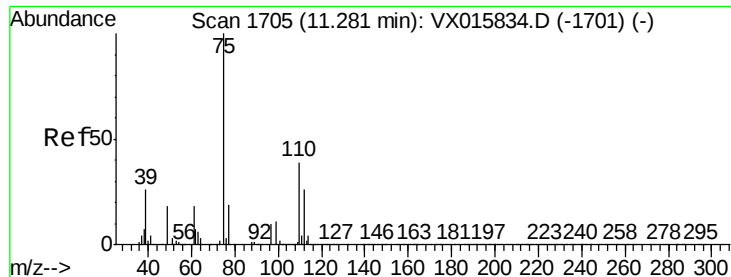


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.393 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

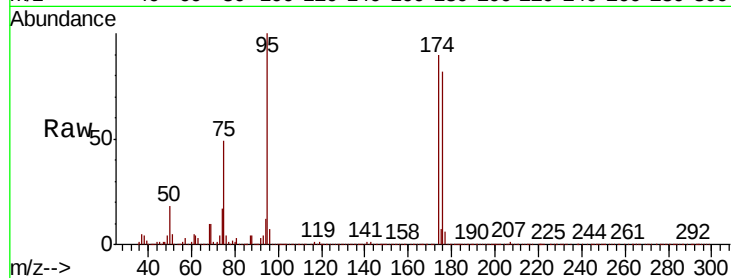
TB-01-200421

Tot Ion: 75 Resp: 341310

Ion Ratio Lower Upper

75 100

77 1.2 21.3 63.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

250000

200000

150000

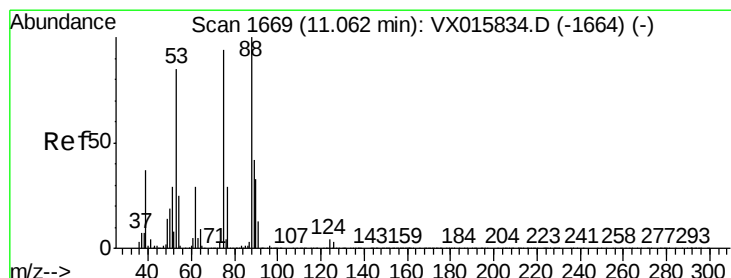
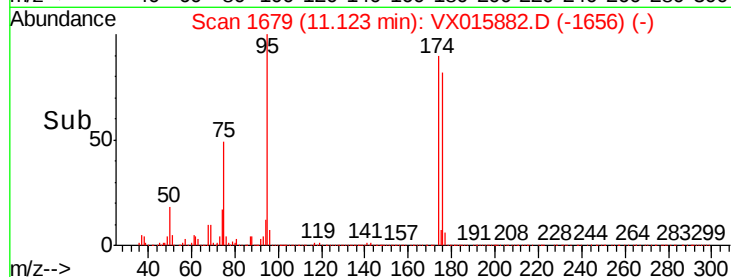
100000

50000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 58.679 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

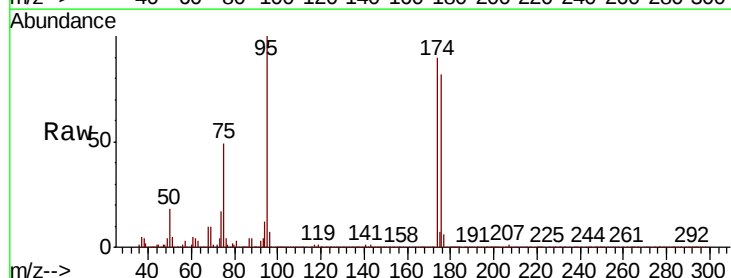
Tgt Ion: 75 Resp: 341310

Ion Ratio Lower Upper

75 100

53 0.1 74.2 111.2#

89 0.2 38.0 57.0#



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

11.12

300000

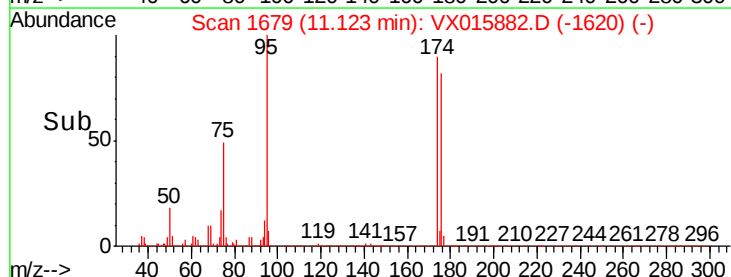
200000

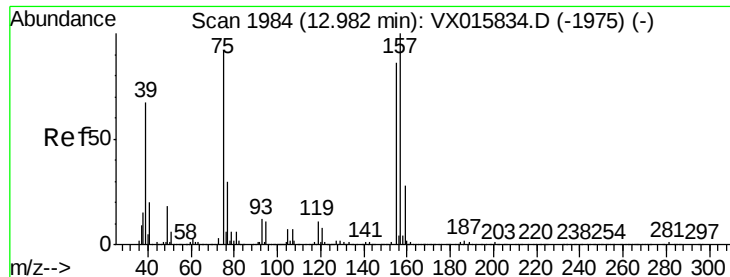
100000

0

Time-->

11.10 11.20

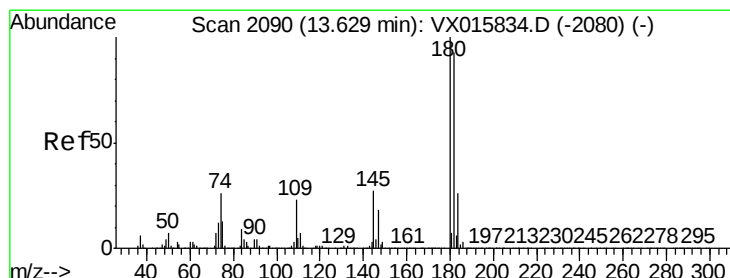
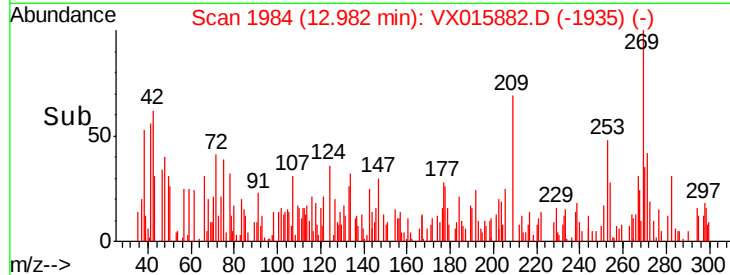
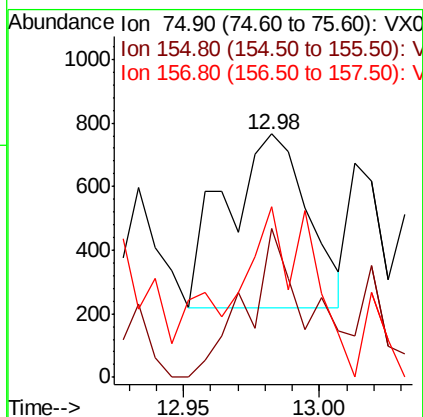
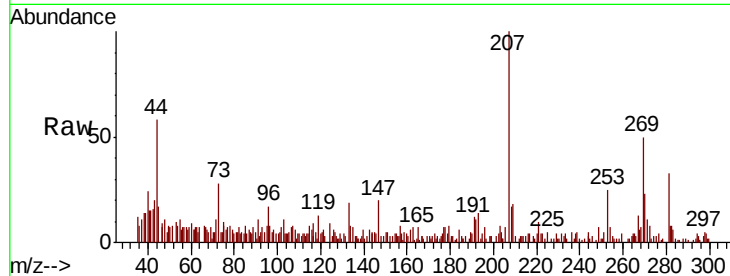




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.390 ug/l
 RT: 12.98 min Scan# 1984
 Delta R.T. 0.00 min
 Lab File: VX015882.D
 Acq: 23 Apr 2020 12:07

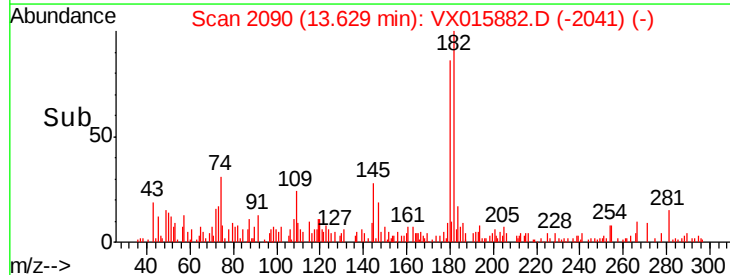
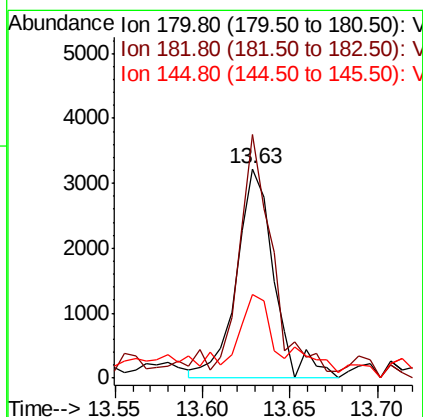
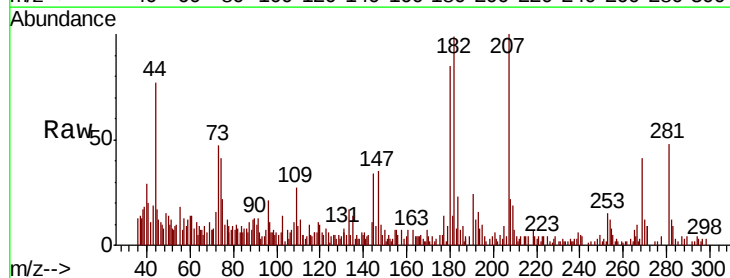
Instrument :
 MSVOA_X
 ClientSampled :
 TB-01-200421

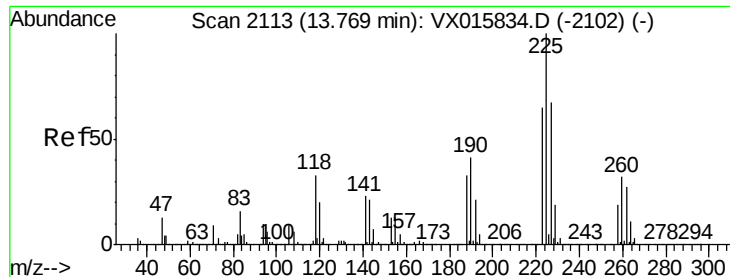
Tot Ion: 75 Resp: 1144
 Ion Ratio Lower Upper
 75 100
 155 66.2 48.1 144.4
 157 98.6 58.9 176.7



#93
 1,2,4-Trichlorobenzene
 Concen: 0.274 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015882.D
 Acq: 23 Apr 2020 12:07

Tgt Ion: 180 Resp: 4807
 Ion Ratio Lower Upper
 180 100
 182 114.5 47.7 143.1
 145 24.2 14.5 43.5





#94

Hexachlorobutadiene

Concen: 0.376 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200421

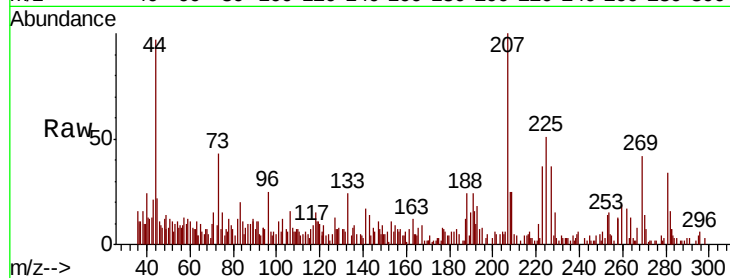
Tot Ion:225 Resp: 2949

Ion Ratio Lower Upper

225 100

223 58.5 31.3 93.8

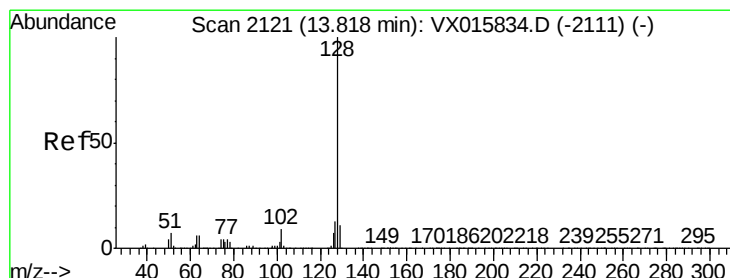
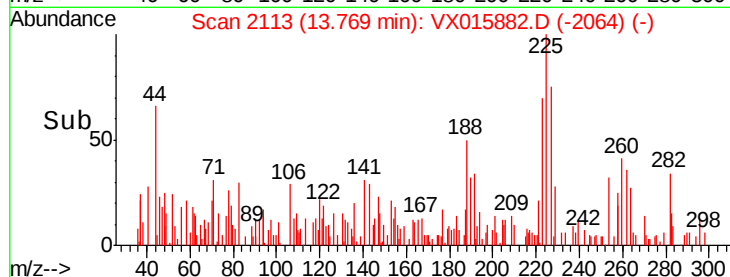
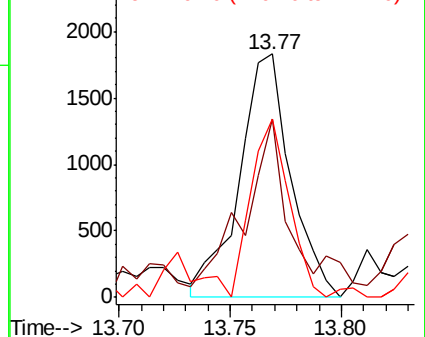
227 56.5 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.306 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. 0.00 min

Lab File: VX015882.D

Acq: 23 Apr 2020 12:07

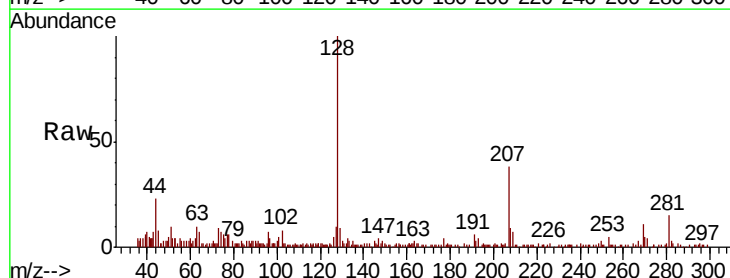
Tgt Ion:128 Resp: 15439

Ion Ratio Lower Upper

128 100

127 17.6 10.5 15.7#

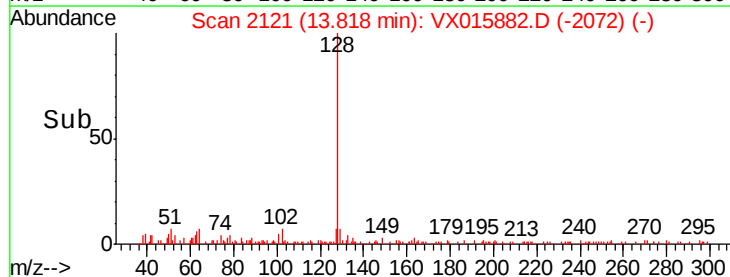
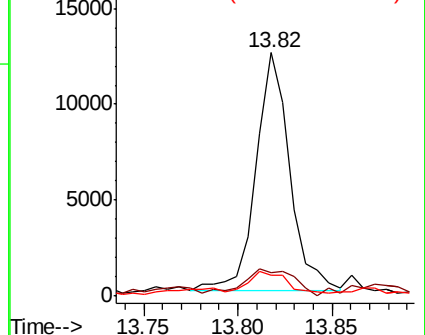
129 10.6 8.5 12.7

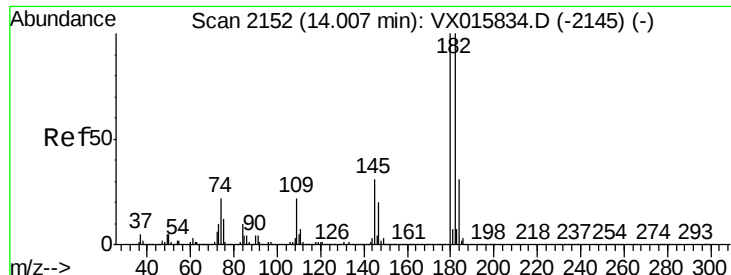


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

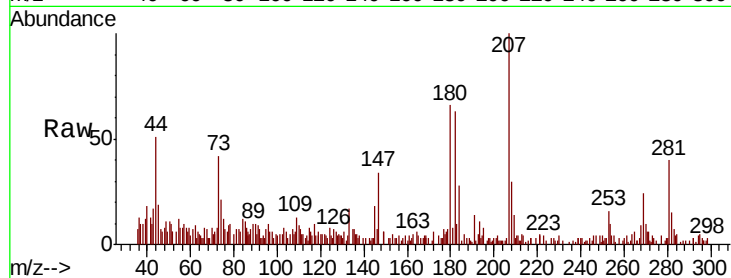




#96
 1,2,3-Trichlorobenzene
 Concen: 0.261 ug/l
 RT: 14.01 min Scan# 2152
 Delta R.T. 0.00 min
 Lab File: VX015882.D
 Acq: 23 Apr 2020 12:07

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-200421

Tot Ion:180 Resp: 4461
 Ion Ratio Lower Upper
 180 100
 182 110.2 47.9 143.7
 145 43.5 15.2 45.5



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

