

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031020\
 Data File : VX015173.D
 Acq On : 10 Mar 2020 16:04
 Operator : JC/SP
 Sample : L1842-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 11 07:30:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	353164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	553118	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	536623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	276675	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	209985	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
35) Dibromofluoromethane	5.49	113	172424	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
50) Toluene-d8	8.71	98	673846	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
62) 4-Bromofluorobenzene	11.13	95	244103	51.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.12%	

Target Compounds

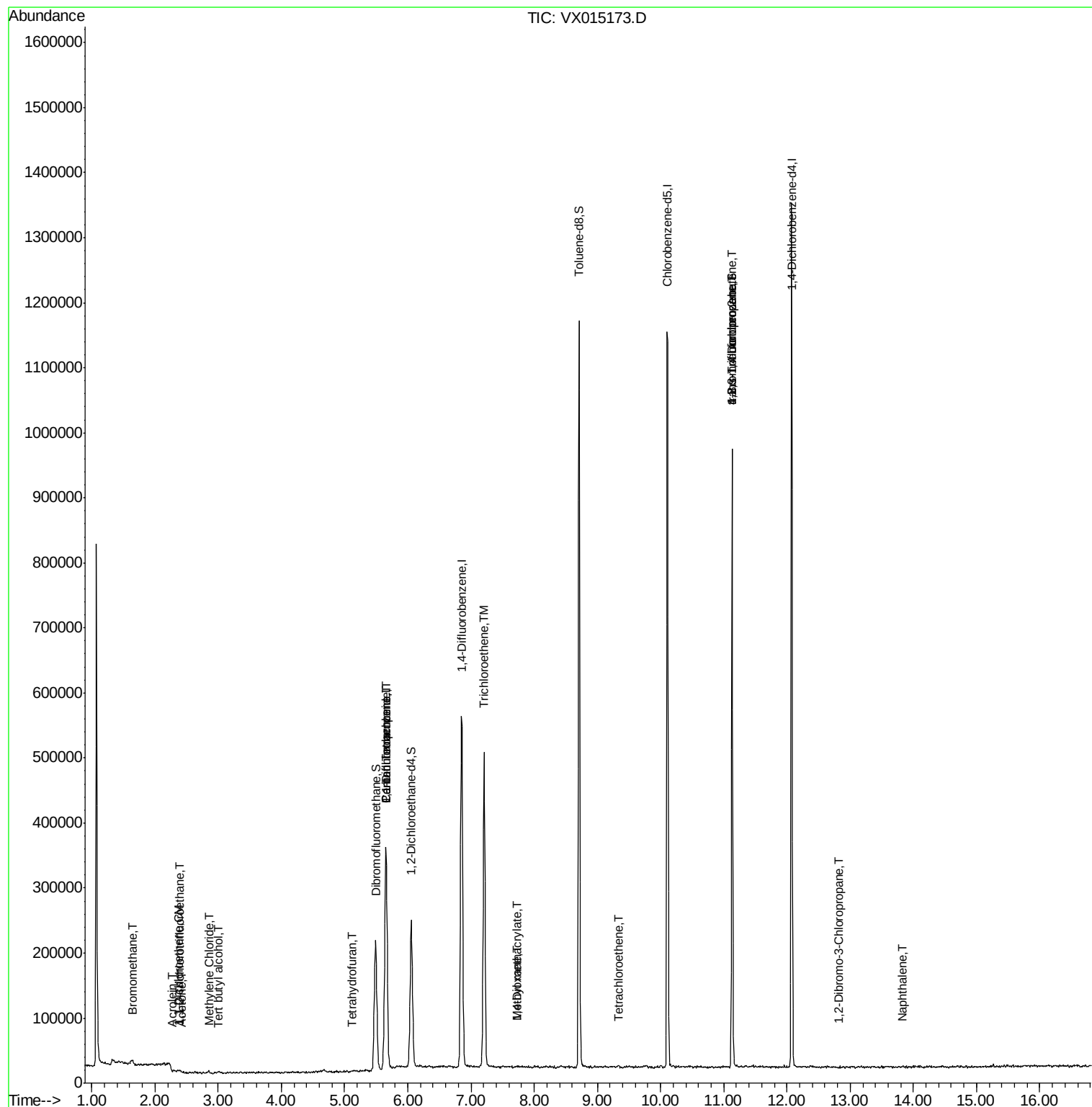
						Qvalue
5) Bromomethane	1.66	94	607	0.222	ug/l #	59
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1032	0.310	ug/l #	77
11) Tert butyl alcohol	3.00	59	1564	2.152	ug/l #	58
12) 1,1-Dichloroethene	2.37	96	724	0.211	ug/l #	43
13) Acrolein	2.27	56	340	0.498	ug/l #	62
16) Acetone	2.43	43	1600	0.943	ug/l #	48
20) Methylene Chloride	2.84	84	1439	0.362	ug/l #	53
29) Tetrahydrofuran	5.11	42	615	0.384	ug/l #	65
36) 1,1-Dichloropropene	5.65	75	23135	4.524	ug/l #	51
38) Carbon Tetrachloride	5.65	117	30737	6.368	ug/l #	17
44) Trichloroethene	7.21	130	188726	44.670	ug/l	100
48) Methyl methacrylate	7.74	41	1131	0.266	ug/l #	53
49) 1,4-Dioxane	7.73	88	57	0.621	ug/l #	1
64) Tetrachloroethene	9.33	164	979	0.221	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	123944	22.458	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	123944	63.737	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.82	75	291	0.247	ug/l	66
95) Naphthalene	13.82	128	177	1.429	ug/l #	1

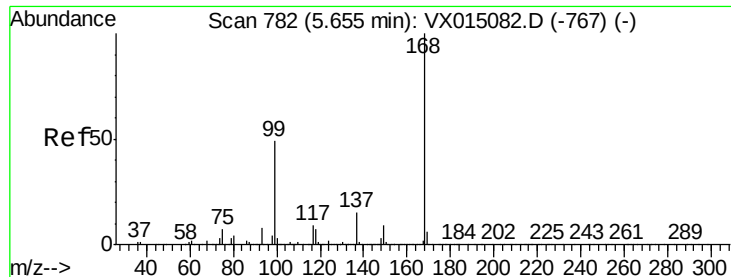
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

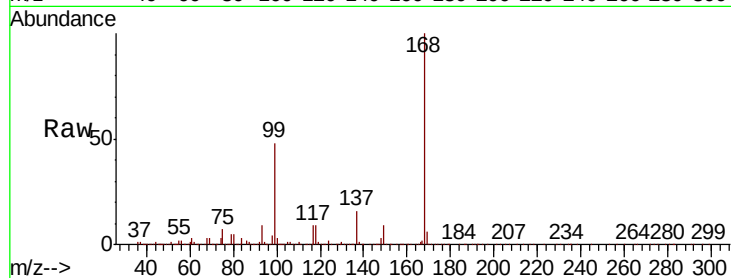
ClientSampled :

Tot Ion:168 Resp: 353164

Ion Ratio Lower Upper

168 100

99 48.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

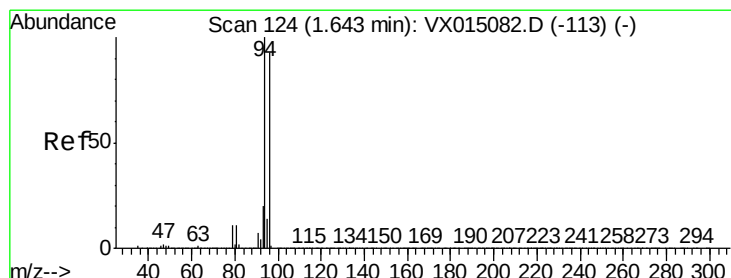
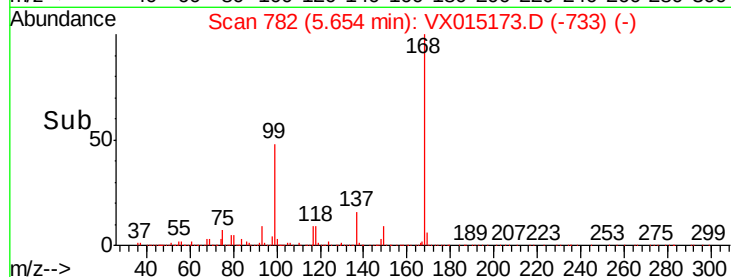
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015173.D

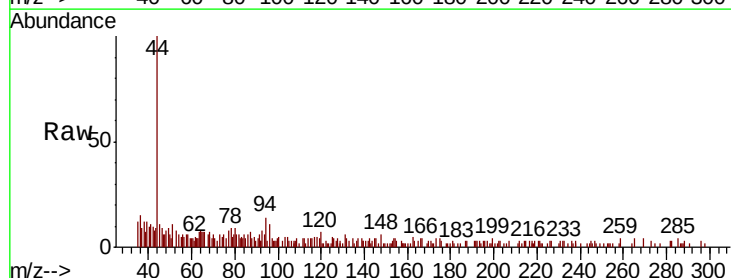
Acq: 10 Mar 2020 16:04

Tgt Ion: 94 Resp: 607

Ion Ratio Lower Upper

94 100

96 54.1 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

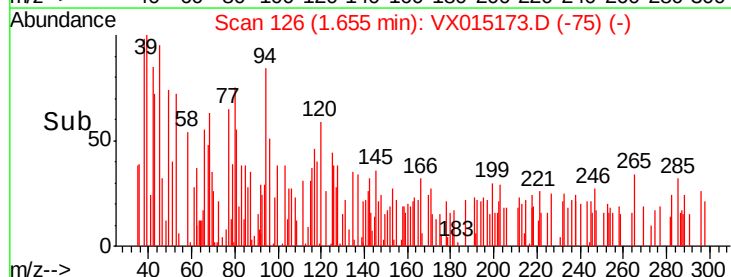
200

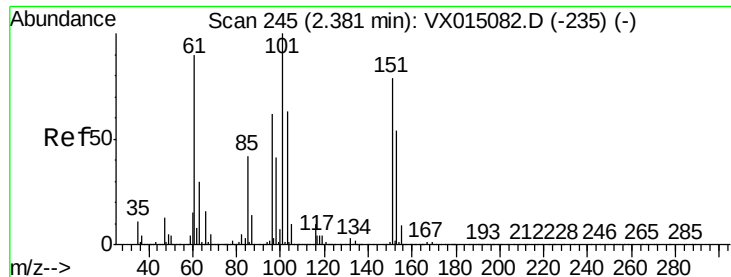
100

0

Time-->

1.60 1.65





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.310 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

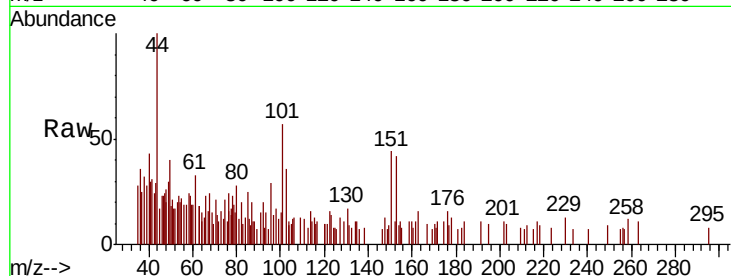
Tot Ion:101 Resp: 1032

Ion Ratio Lower Upper

101 100

85 0.0 33.7 50.5#

151 80.6 64.0 96.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.38

400

300

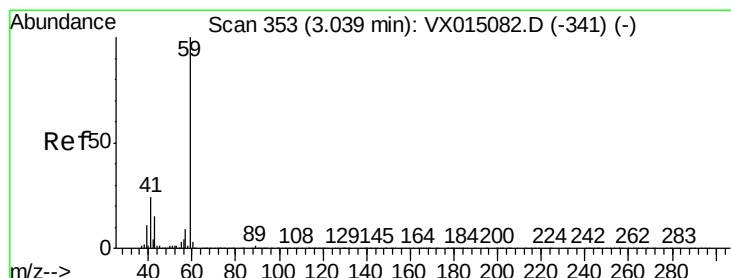
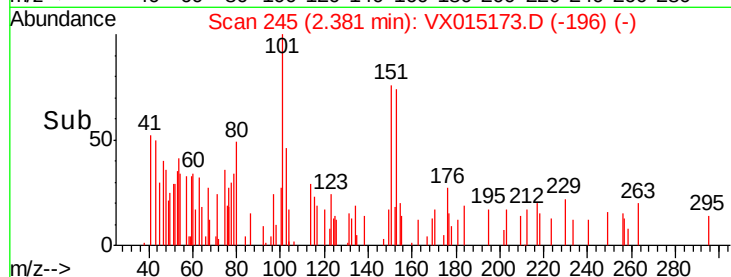
200

100

0

2.30 2.35 2.40 2.45

Time-->



#11

Tert butyl alcohol

Concen: 2.152 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX015173.D

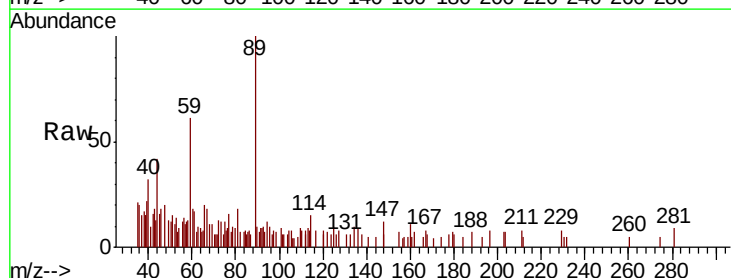
Acq: 10 Mar 2020 16:04

Tgt Ion: 59 Resp: 1564

Ion Ratio Lower Upper

59 100

57 26.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

800

600

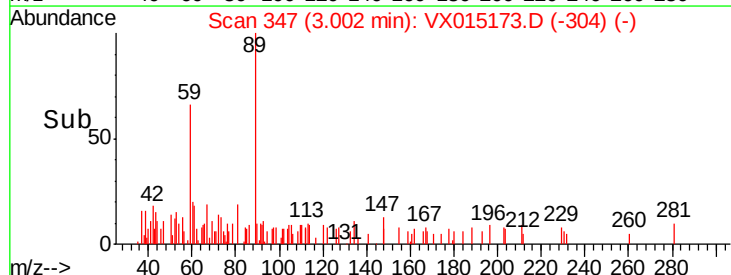
400

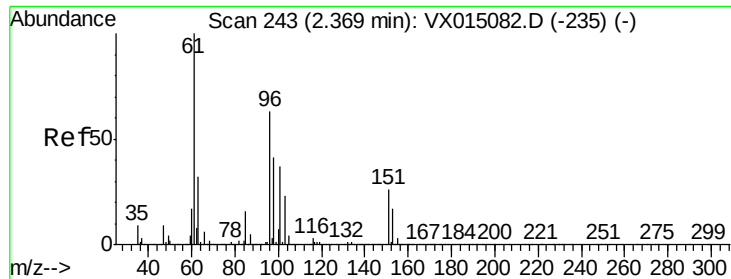
200

0

2.95 3.00 3.05 3.10

Time-->





#12

1,1-Dichloroethene

Concen: 0.211 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

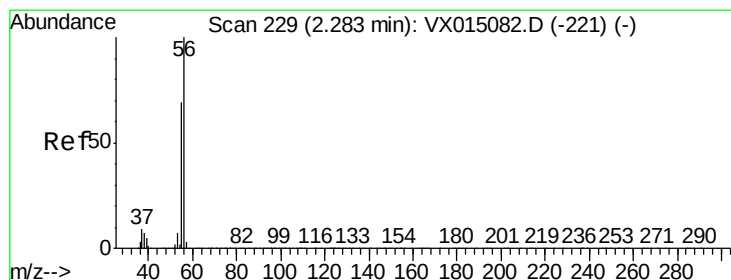
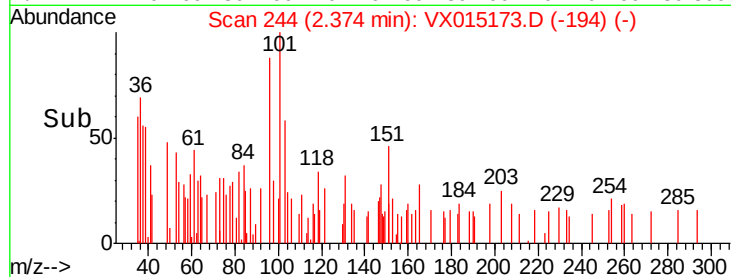
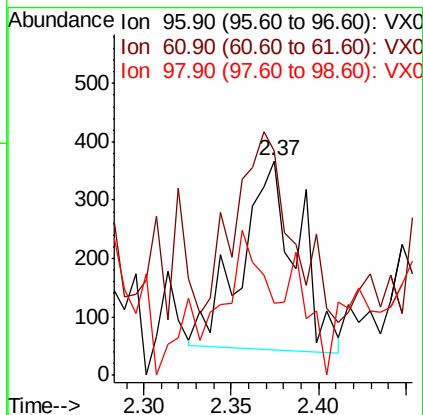
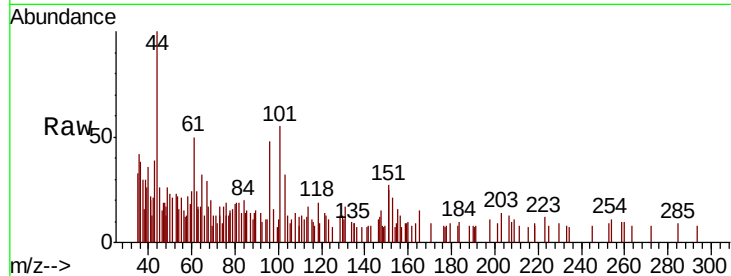
Tot Ion: 96 Resp: 724

Ion Ratio Lower Upper

96 100

61 97.4 126.2 189.4#

98 0.0 51.4 77.0#



#13

Acrolein

Concen: 0.498 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX015173.D

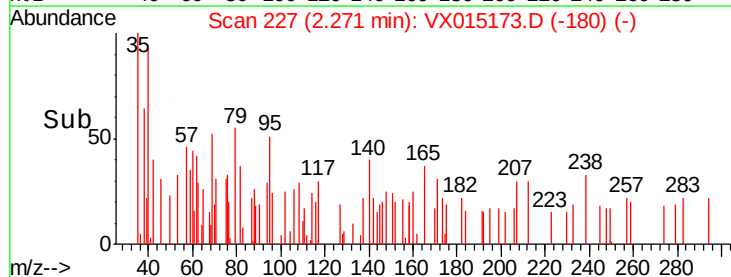
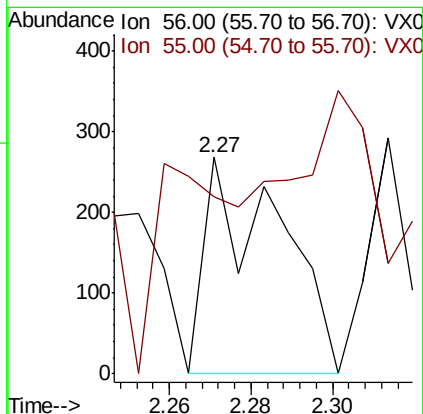
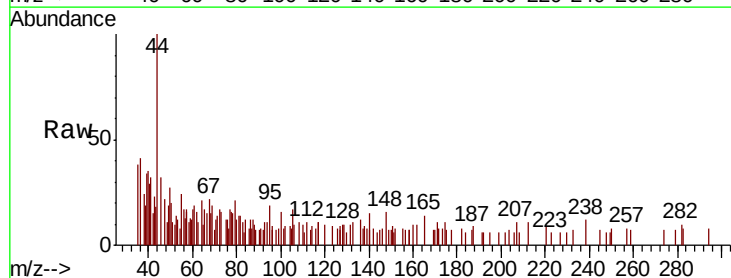
Acq: 10 Mar 2020 16:04

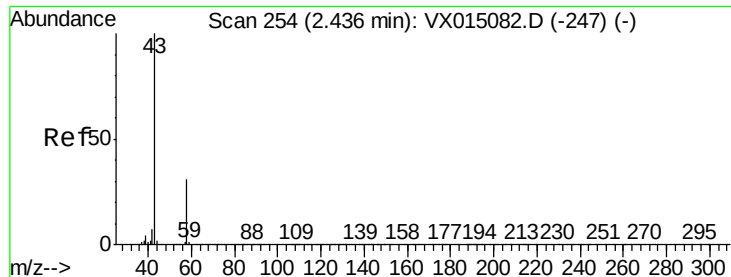
Tgt Ion: 56 Resp: 340

Ion Ratio Lower Upper

56 100

55 100.3 55.4 83.0#

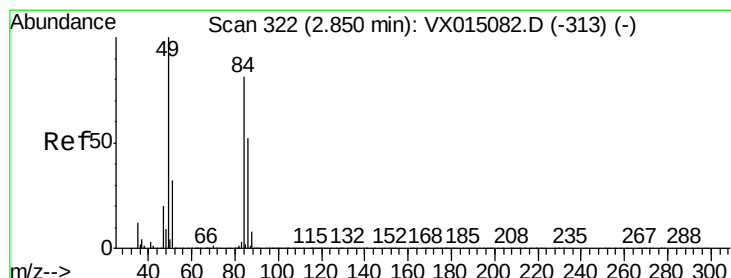
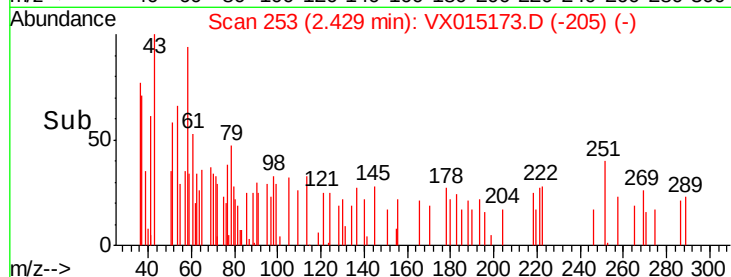
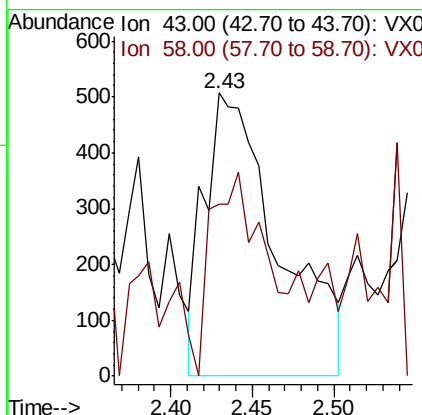
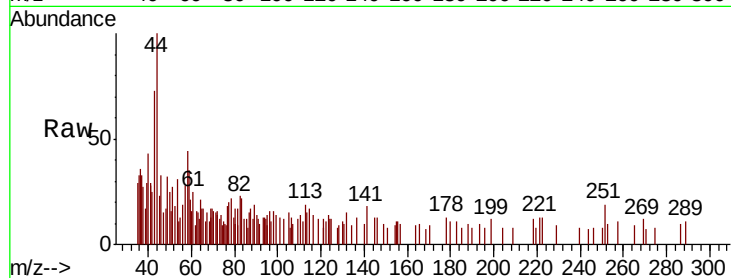




#16
Acetone
Concen: 0.943 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX015173.D
Acq: 10 Mar 2020 16:04

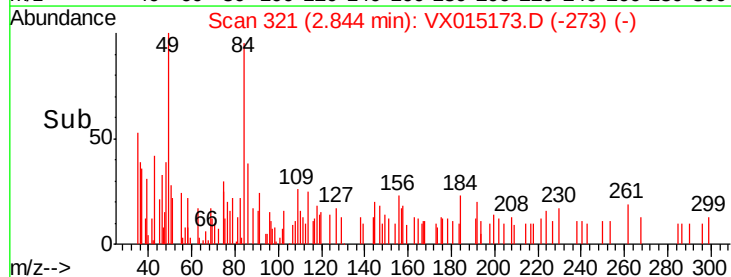
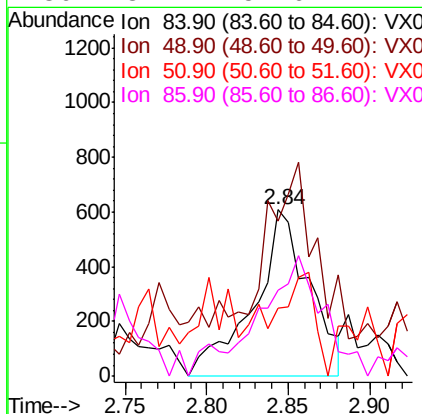
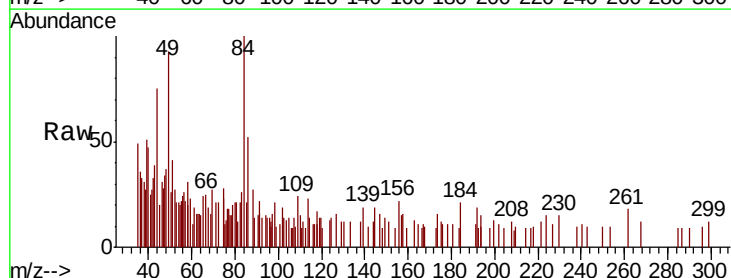
Instrument :
MSVOA_X
ClientSampleId :

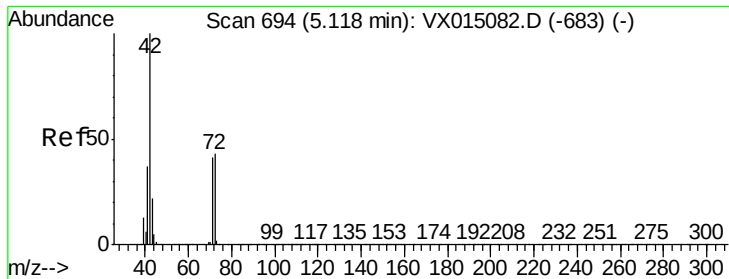
Tot Ion: 43 Resp: 1600
Ion Ratio Lower Upper
43 100
58 59.7 24.8 37.2#



#20
Methylene Chloride
Concen: 0.362 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX015173.D
Acq: 10 Mar 2020 16:04

Tgt Ion: 84 Resp: 1439
Ion Ratio Lower Upper
84 100
49 60.8 99.4 149.2#
51 14.5 31.5 47.3#
86 37.1 51.6 77.4#





#29

Tetrahydrofuran

Concen: 0.384 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.01 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

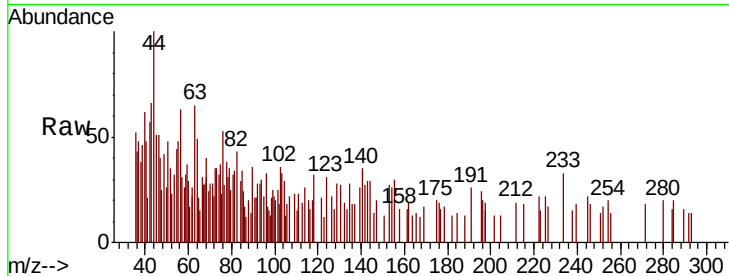
Tot Ion: 42 Resp: 615

Ion Ratio Lower Upper

42 100

72 41.6 36.4 54.6

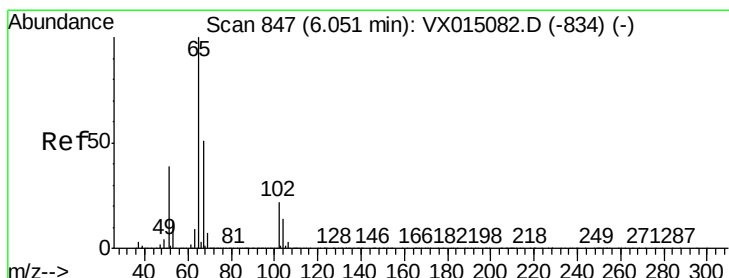
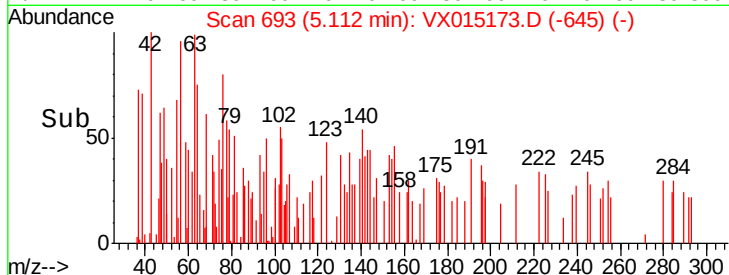
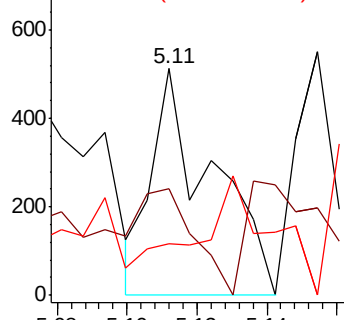
71 0.0 33.3 49.9#



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: 50.118 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015173.D

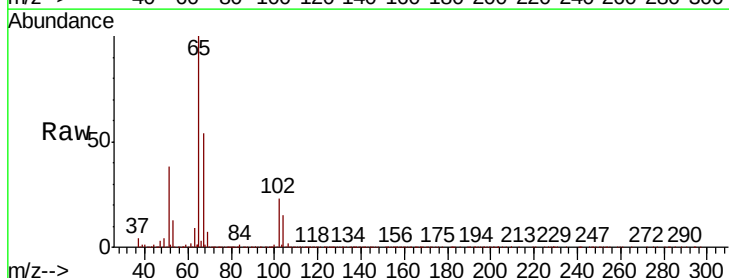
Acq: 10 Mar 2020 16:04

Tgt Ion: 65 Resp: 209985

Ion Ratio Lower Upper

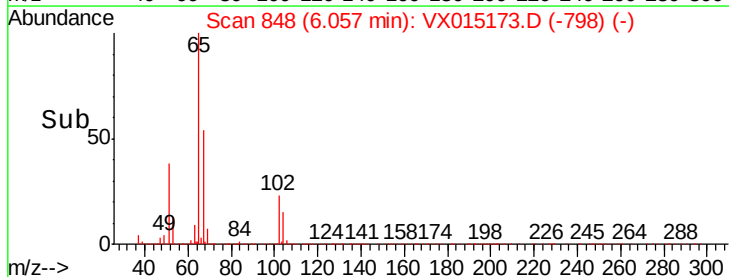
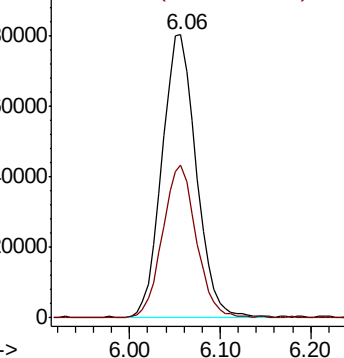
65 100

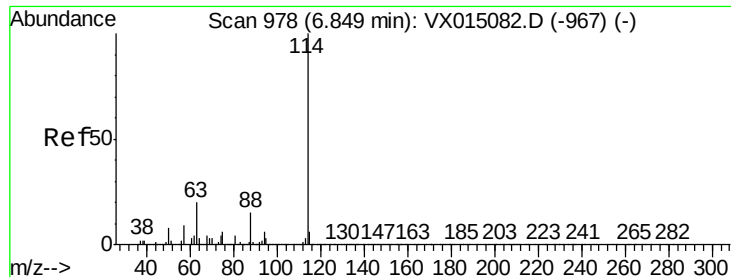
67 52.8 0.0 105.6



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: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

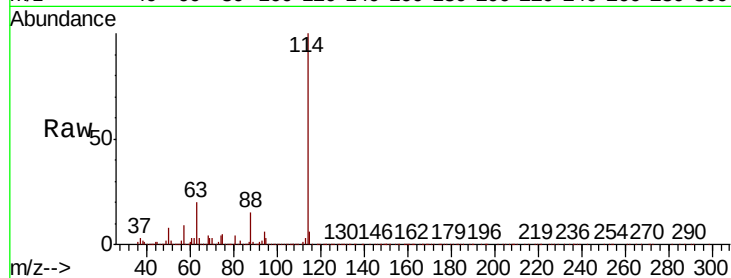
Tot Ion:114 Resp: 553118

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

88 15.2 0.0 30.6



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

300000

250000

200000

150000

100000

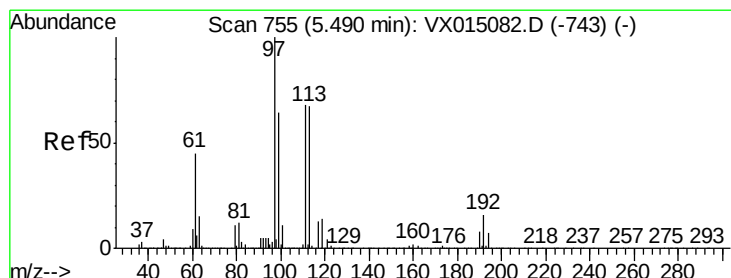
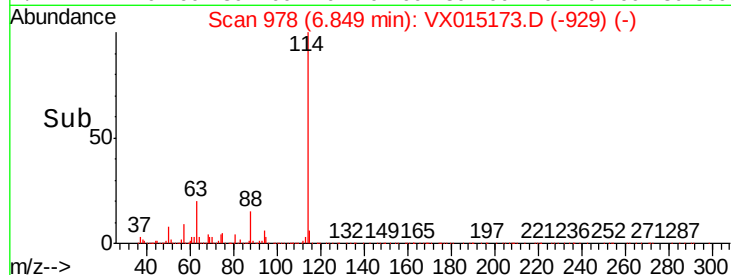
50000

0

6.85

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 49.413 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

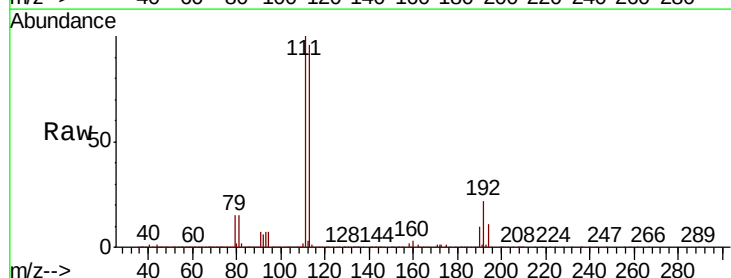
Tgt Ion:113 Resp: 172424

Ion Ratio Lower Upper

113 100

111 103.5 82.6 123.8

192 23.7 18.6 28.0



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

80000

60000

40000

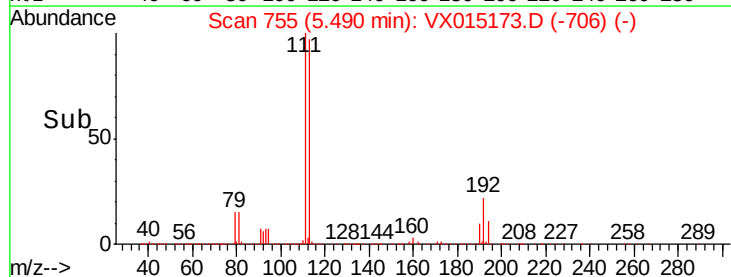
20000

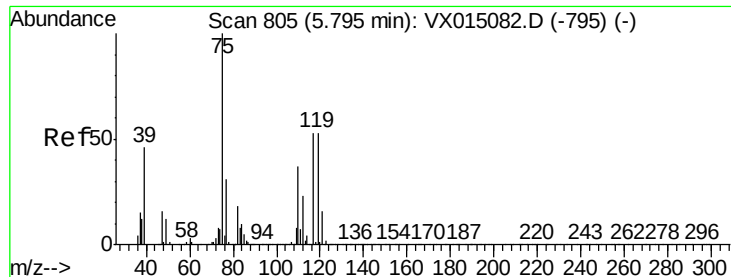
0

5.49

5.30 5.40 5.50 5.60

Time-->

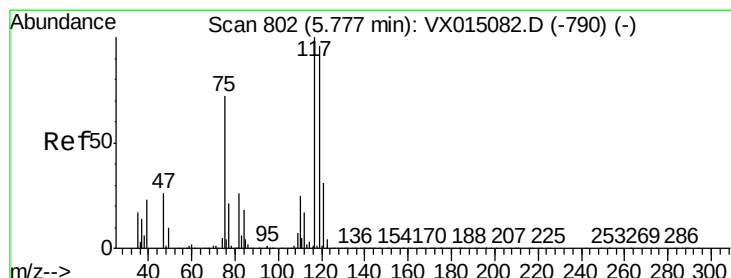
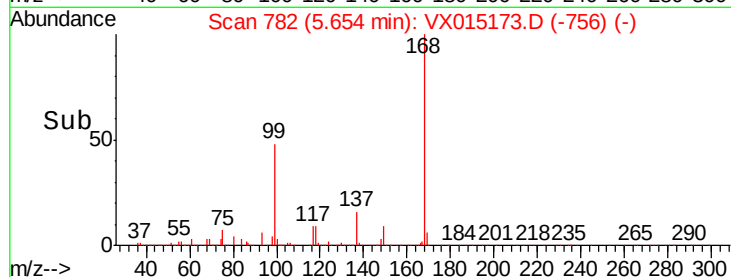
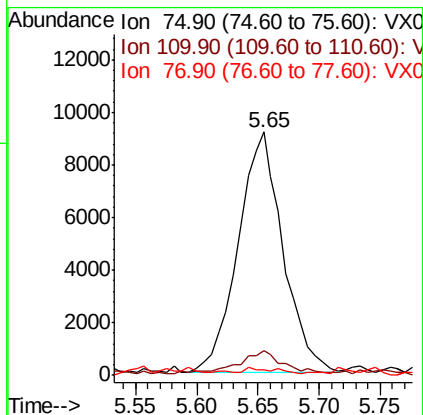
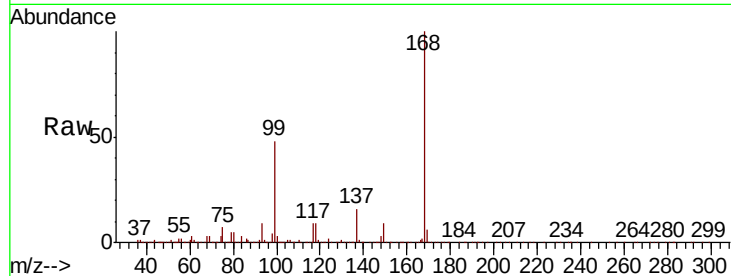




#36
 1,1-Dichloropropene
 Concen: 4.524 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015173.D
 Acq: 10 Mar 2020 16:04

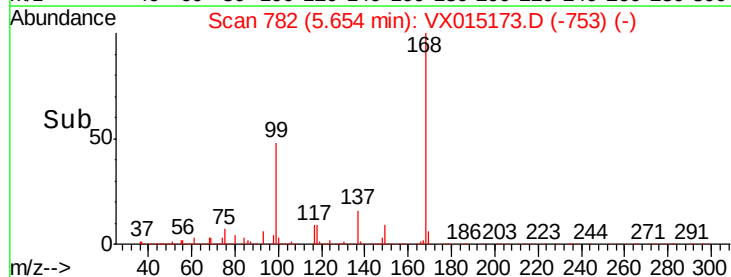
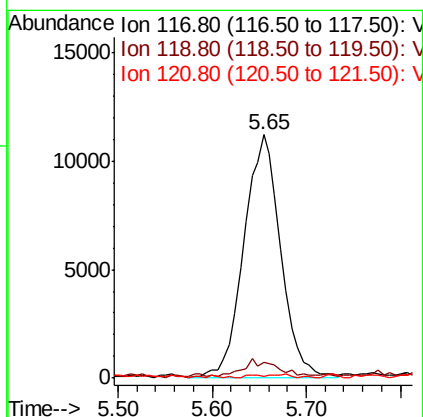
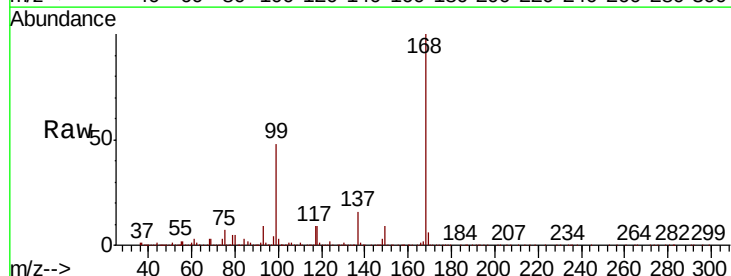
Instrument :
 MSVOA_X
 ClientSampleId :

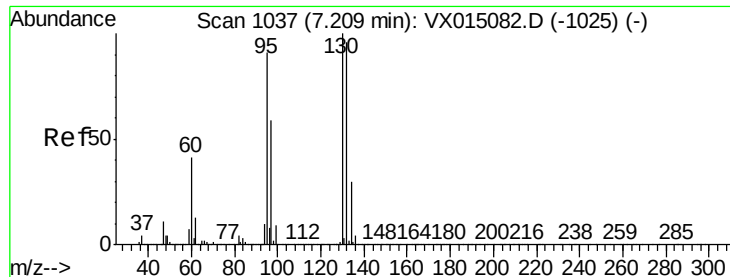
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	17.9	53.8#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.368 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015173.D
 Acq: 10 Mar 2020 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.9	115.3#
121	0.8	24.6	37.0#





#44

Trichloroethene

Concen: 44.670 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

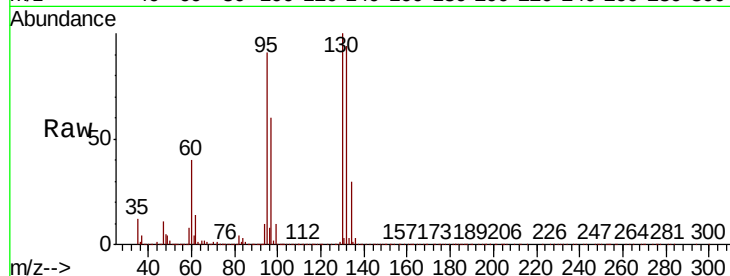
ClientSampled :

Tot Ion:130 Resp: 188726

Ion Ratio Lower Upper

130 100

95 90.7 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

100000

80000

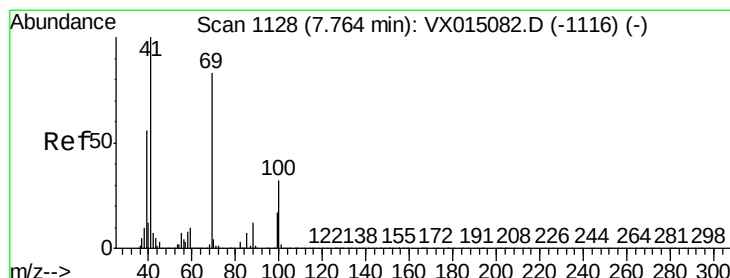
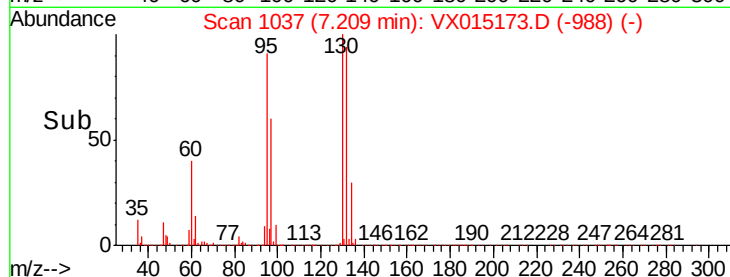
60000

40000

20000

0

Time--> 7.10 7.20 7.30



#48

Methyl methacrylate

Concen: 0.266 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. -0.02 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

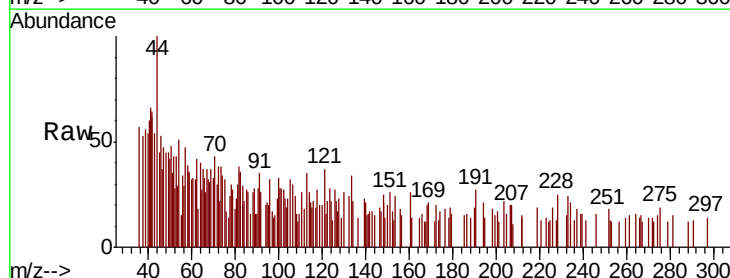
Tgt Ion: 41 Resp: 1131

Ion Ratio Lower Upper

41 100

69 14.6 65.4 98.2#

39 52.3 44.6 67.0



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

1200

1000

800

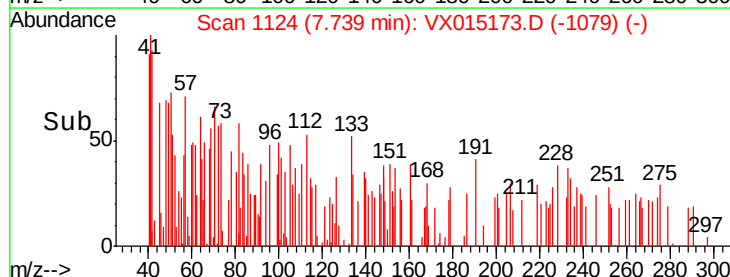
600

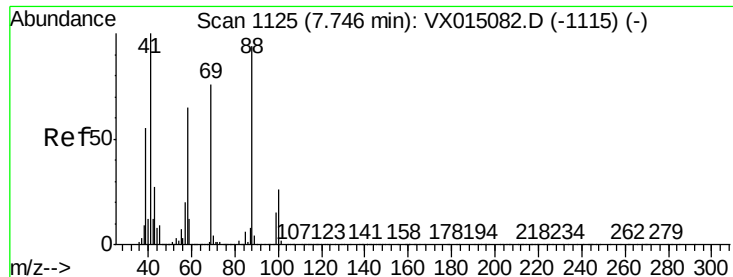
400

200

0

Time--> 7.70 7.72 7.74 7.76

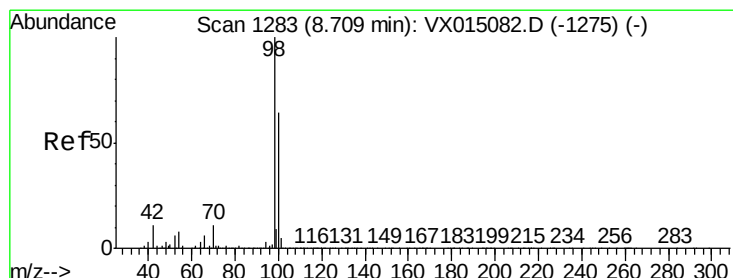
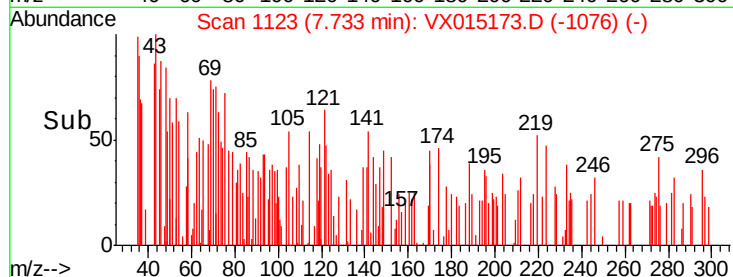
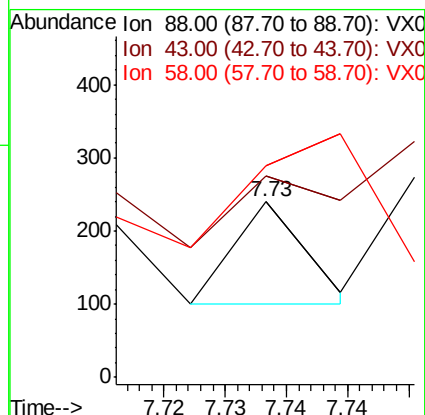
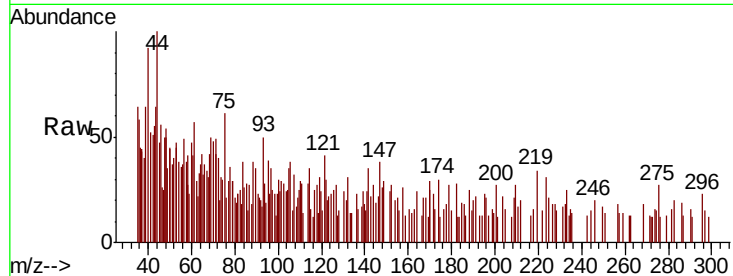




#49
1,4-Dioxane
Concen: 0.621 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VX015173.D
Acq: 10 Mar 2020 16:04

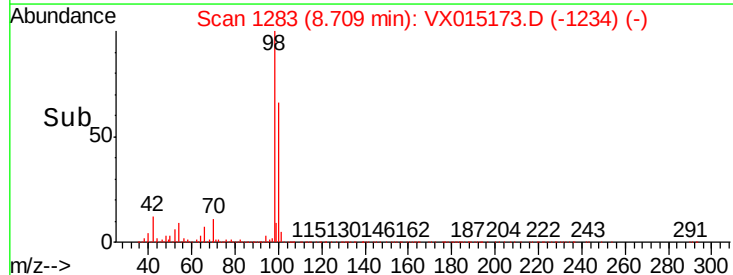
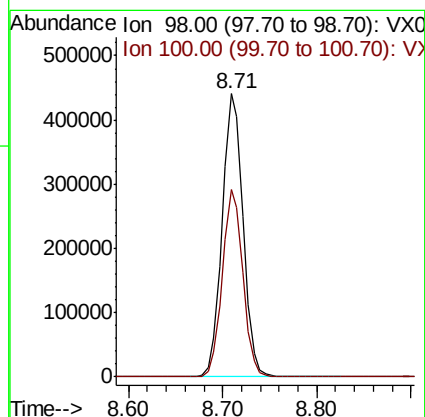
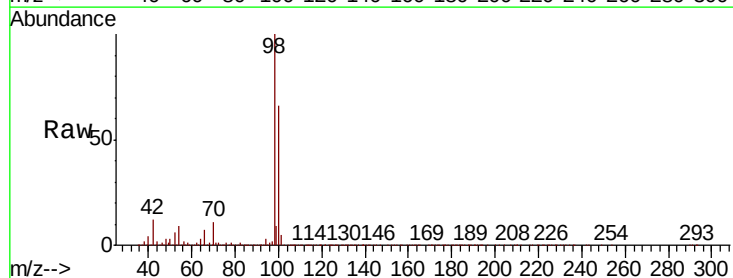
Instrument :
MSVOA_X
ClientSampleId :

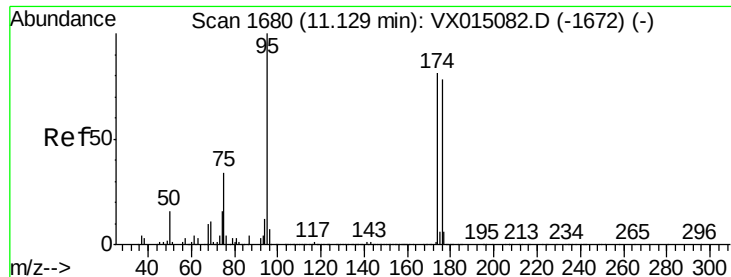
Tot Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 1119.3 27.0 40.4#
58 659.6 55.6 83.4#



#50
Toluene-d8
Concen: 50.767 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015173.D
Acq: 10 Mar 2020 16:04

Tgt Ion: 98 Resp: 673846
Ion Ratio Lower Upper
98 100
100 65.1 52.4 78.6

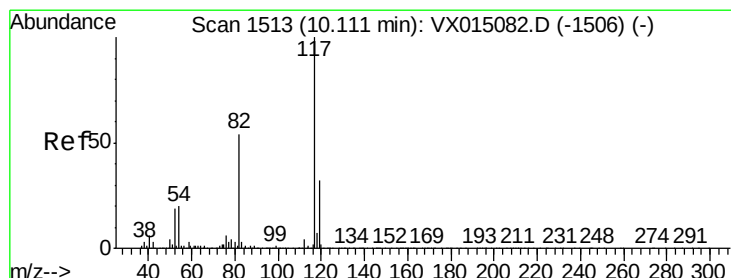
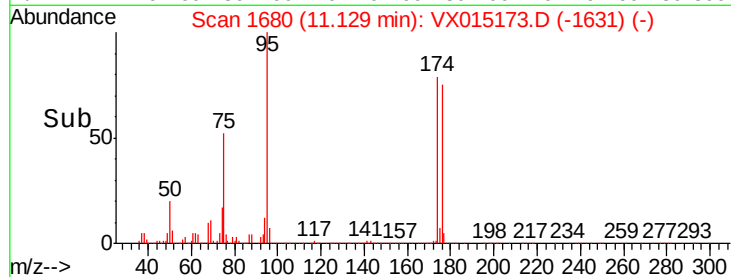
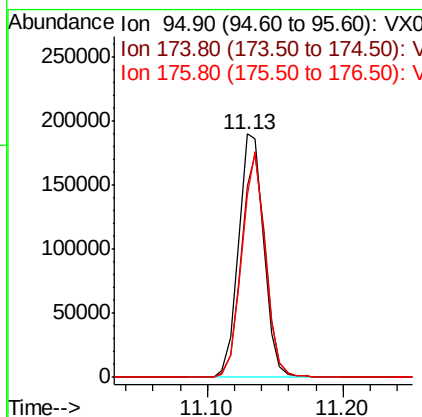
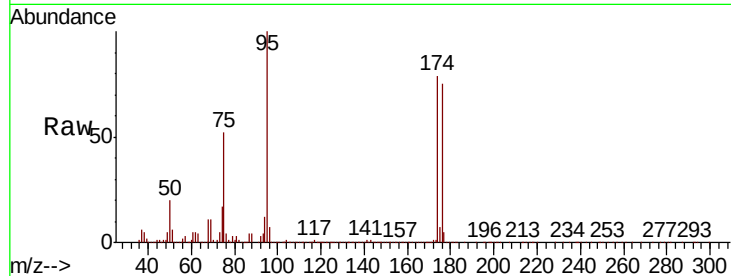




#62
4-Bromofluorobenzene
Concen: 51.559 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX015173.D
Acq: 10 Mar 2020 16:04

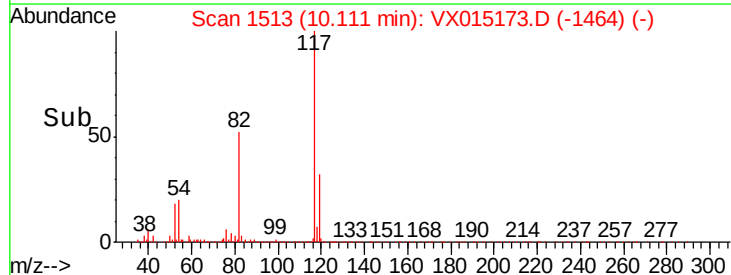
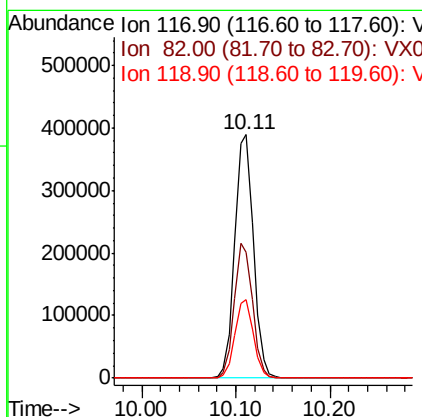
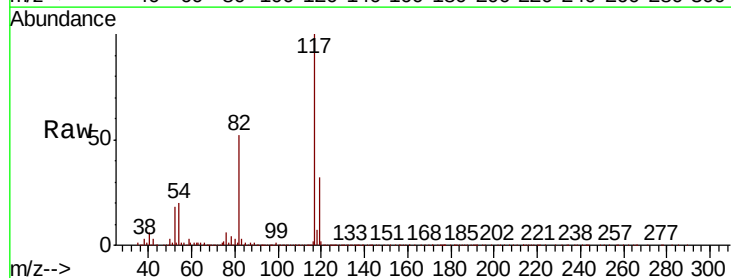
Instrument :
MSVOA_X
ClientSampleId :

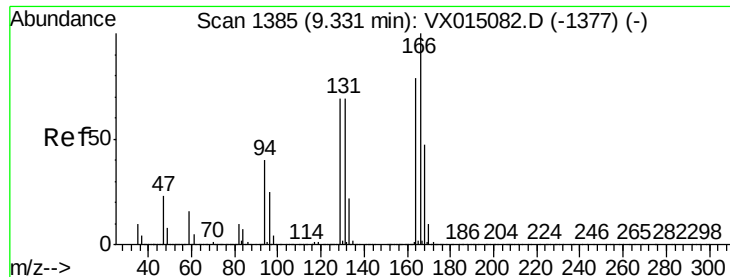
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	177.6
176	87.0	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015173.D
Acq: 10 Mar 2020 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.9	43.3	64.9
119	32.0	25.8	38.8





#64

Tetrachloroethene

Concen: 0.221 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 979

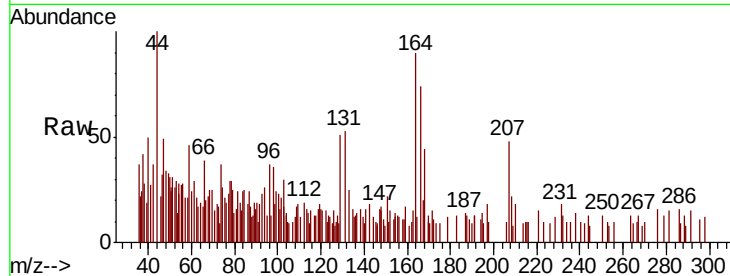
Ion Ratio Lower Upper

164 100

166 82.4 101.1 151.7#

129 41.1 69.4 104.0#

131 42.0 69.8 104.8#

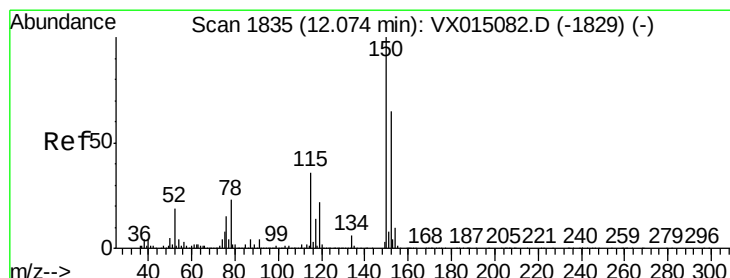
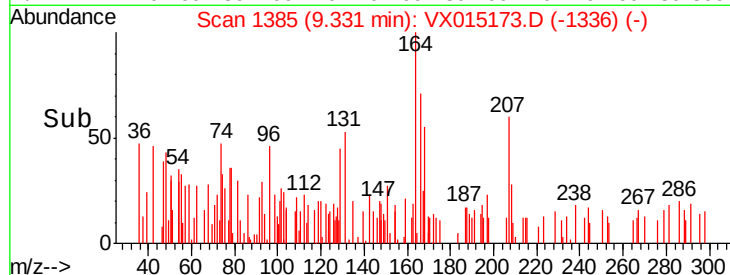
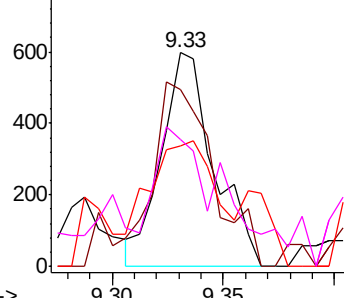


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

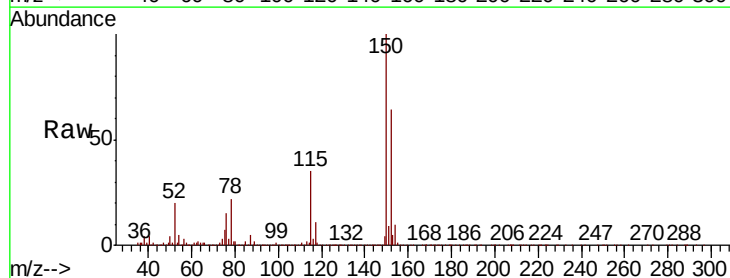
Tgt Ion:152 Resp: 276675

Ion Ratio Lower Upper

152 100

115 55.4 38.2 114.6

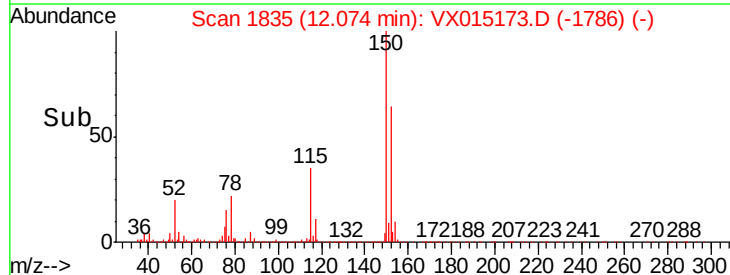
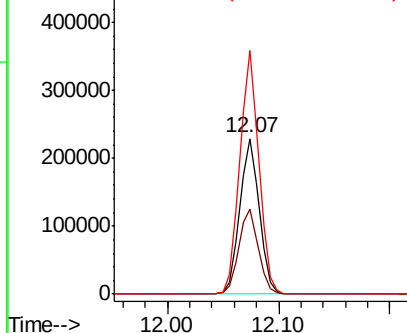
150 153.7 0.0 343.8

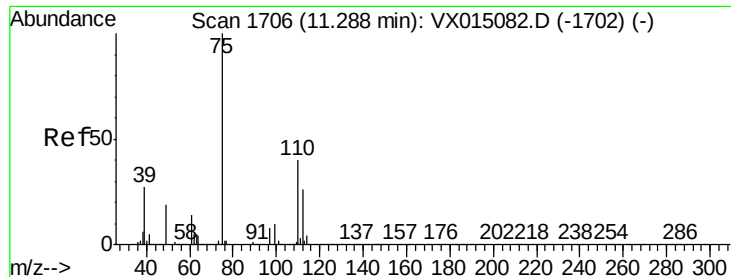


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.458 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

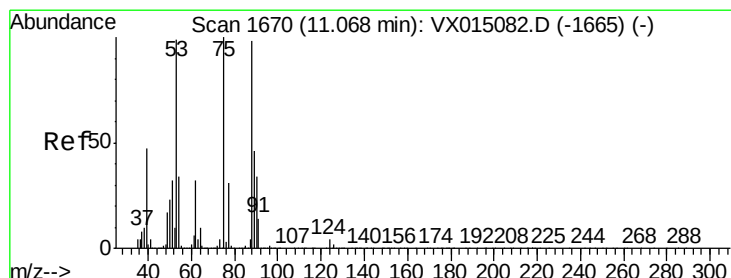
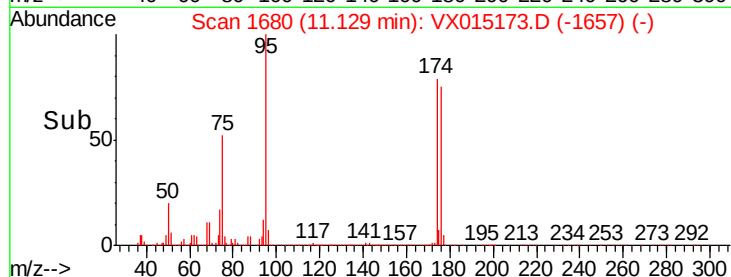
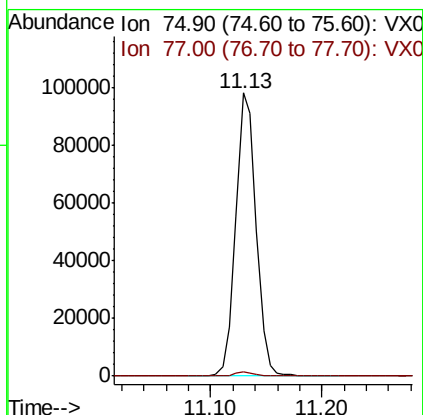
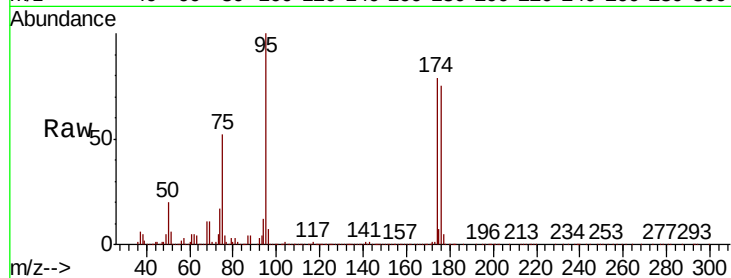
ClientSampleId :

Tot Ion: 75 Resp: 123944

Ion Ratio Lower Upper

75 100

77 1.5 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.737 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

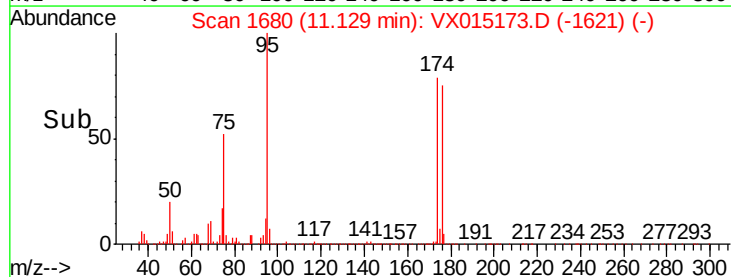
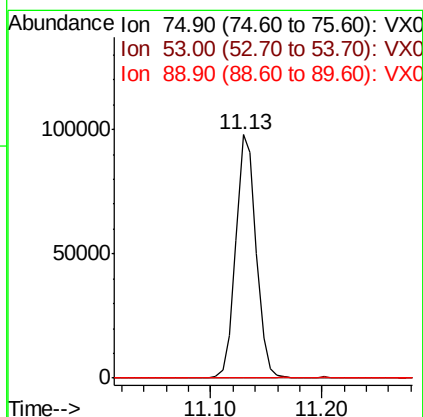
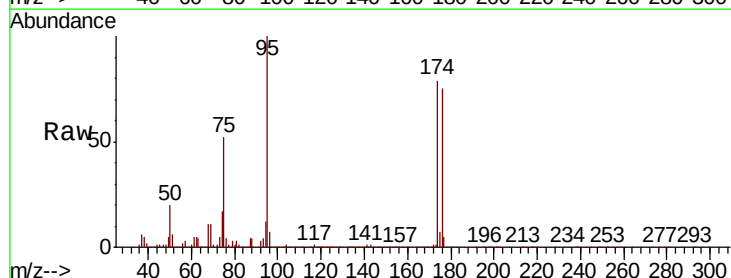
Tgt Ion: 75 Resp: 123944

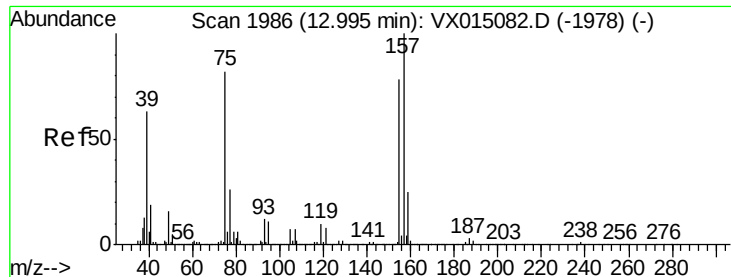
Ion Ratio Lower Upper

75 100

53 0.6 77.9 116.9#

89 0.2 36.2 54.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.247 ug/l

RT: 12.82 min Scan# 1957

Delta R.T. -0.18 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

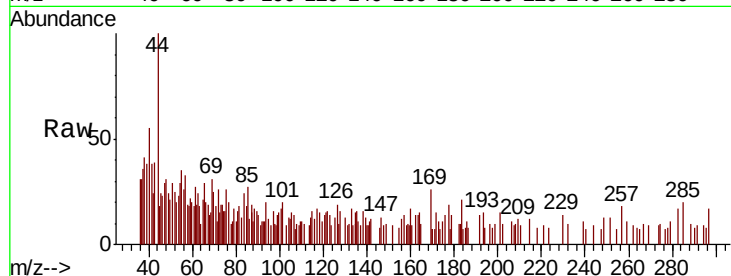
Tot Ion: 75 Resp: 291

Ion Ratio Lower Upper

75 100

155 50.9 46.6 139.7

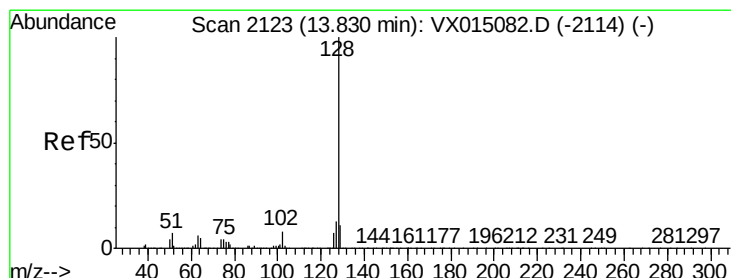
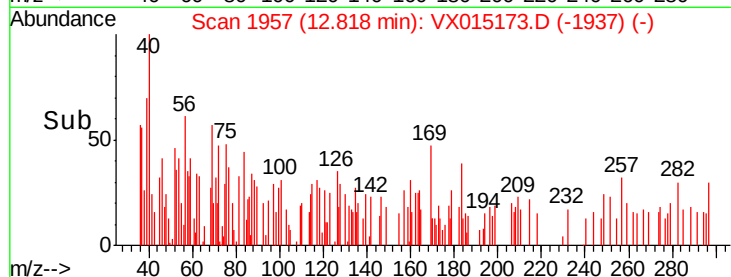
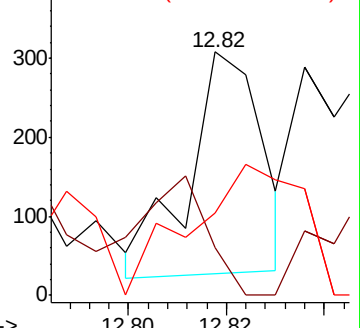
157 90.0 59.2 177.5



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 1.429 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. -0.01 min

Lab File: VX015173.D

Acq: 10 Mar 2020 16:04

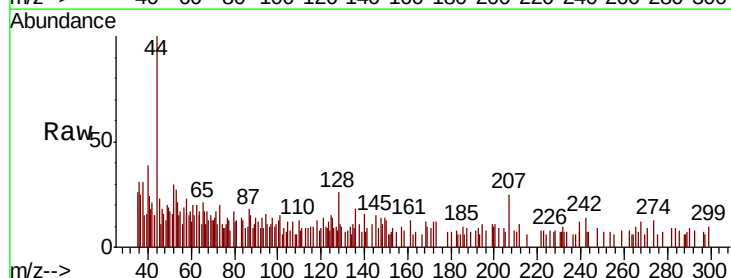
Tgt Ion: 128 Resp: 177

Ion Ratio Lower Upper

128 100

127 98.3 10.3 15.5#

129 166.7 8.6 13.0#



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

