

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015255.D
 Acq On : 13 Mar 2020 13:27
 Operator : JC/SP
 Sample : L1903-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20200309

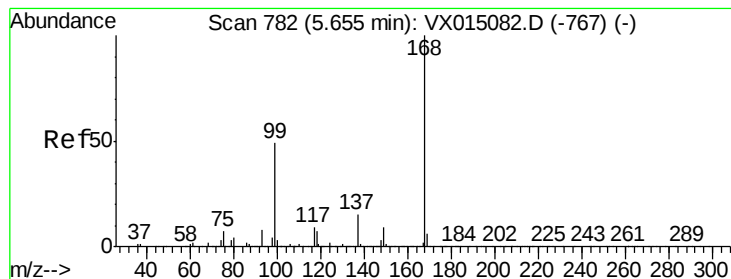
Quant Time: Mar 16 08:19:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	273917	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	439084	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	422677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	215182	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	157111	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
35) Dibromofluoromethane	5.49	113	133874	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	8.71	98	537001	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.13	95	198394	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	739	0.308	ug/l	73
3) Chloromethane	1.32	50	1707	0.502	ug/l	91
5) Bromomethane	1.66	94	686	0.324	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	2.38	101	13155	5.100	ug/l	99
11) Tert butyl alcohol	3.01	59	720	1.277	ug/l #	79
12) 1,1-Dichloroethene	2.37	96	2712	1.019	ug/l	94
13) Acrolein	2.27	56	108	0.204	ug/l #	1
15) Acrylonitrile	3.14	53	347	0.247	ug/l #	43
16) Acetone	2.43	43	4307	3.273	ug/l	91
18) Methyl Acetate	2.76	43	770	0.239	ug/l #	47
20) Methylene Chloride	2.84	84	1000	0.325	ug/l #	80
24) 1,1-Dichloroethane	3.69	63	1321	0.257	ug/l #	43
25) 2-Butanone	4.68	43	479	0.249	ug/l #	27
27) cis-1,2-Dichloroethene	4.59	96	2711	0.850	ug/l	87
29) Tetrahydrofuran	5.14	42	460	0.370	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	19296	4.754	ug/l #	52
38) Carbon Tetrachloride	5.77	117	1196	0.312	ug/l #	84
41) Methacrylonitrile	5.03	41	573	0.253	ug/l #	31
44) Trichloroethene	7.21	130	581264	173.311	ug/l	97
49) 1,4-Dioxane	7.75	88	348	4.774	ug/l #	29
64) Tetrachloroethene	9.33	164	3214	0.920	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	94289	21.967	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	94289	62.344	ug/l #	11
95) Naphthalene	13.83	128	462	1.451	ug/l #	57

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

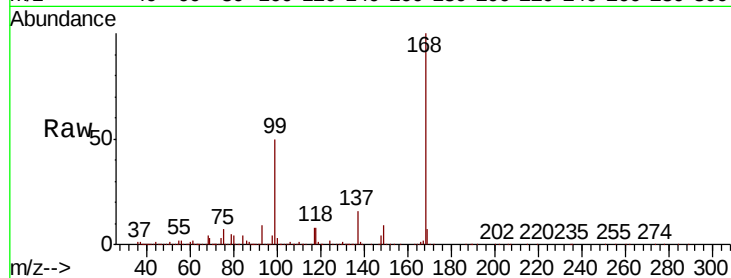
RE120D3-20200309

Tot Ion:168 Resp: 273917

Ion Ratio Lower Upper

168 100

99 50.4 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

100000

80000

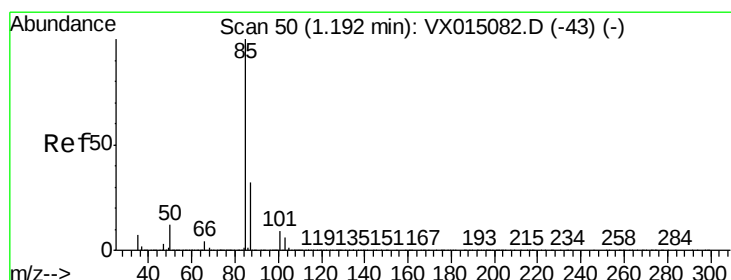
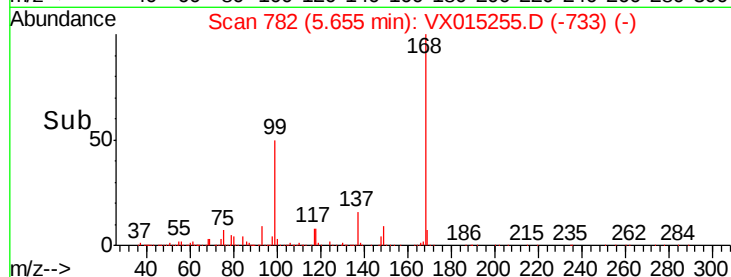
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.308 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX015255.D

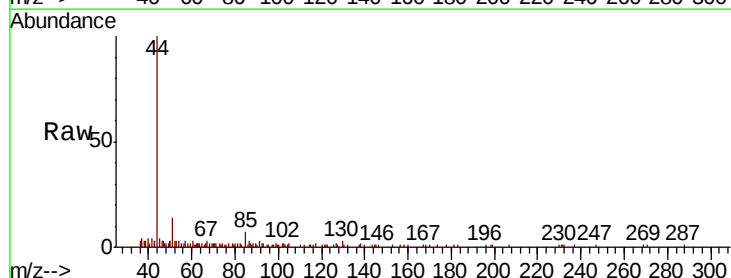
Acq: 13 Mar 2020 13:27

Tgt Ion: 85 Resp: 739

Ion Ratio Lower Upper

85 100

87 17.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

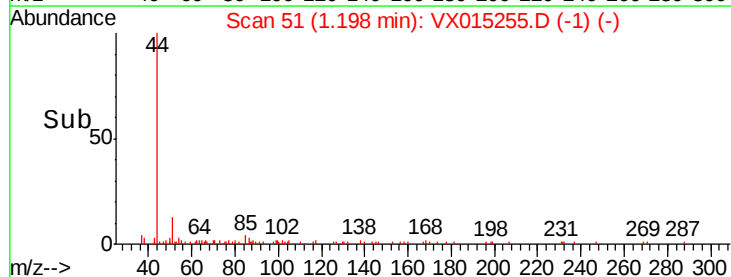
300

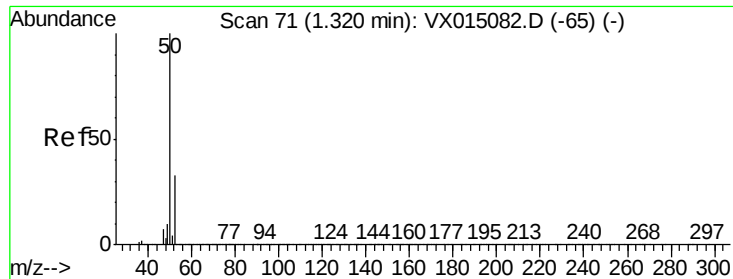
200

100

0

Time-->

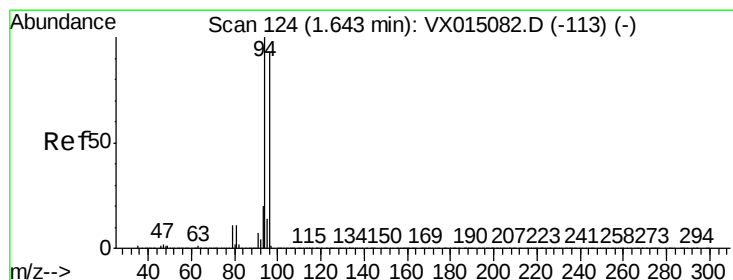
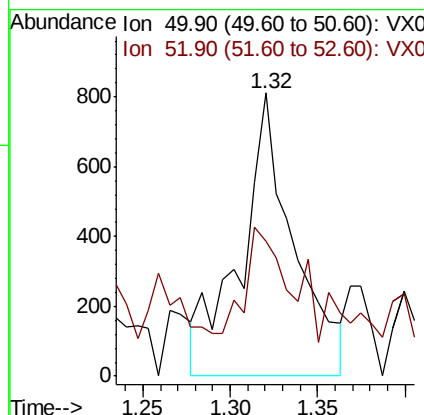
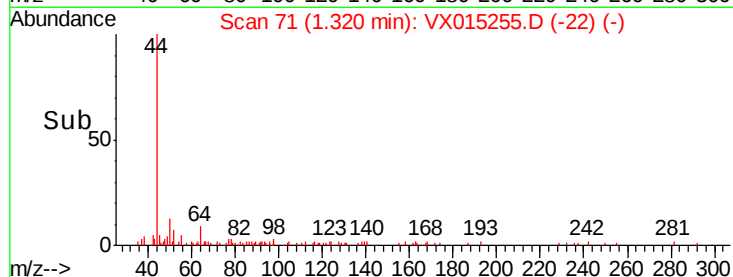
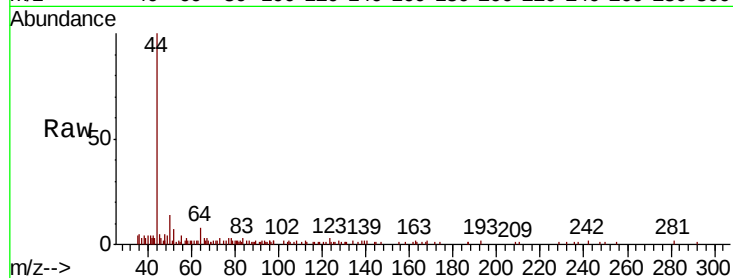




#3
Chloromethane
Concen: 0.502 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

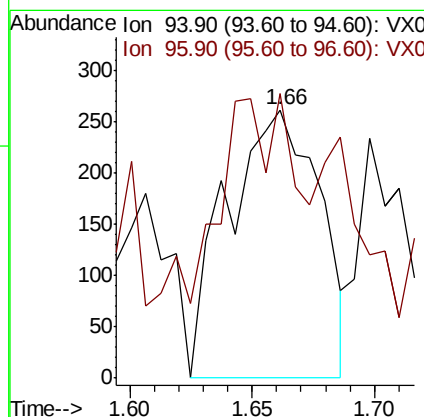
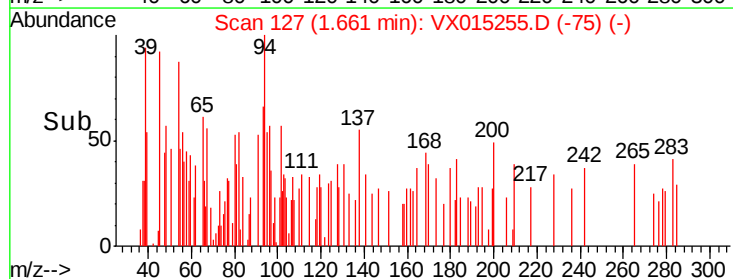
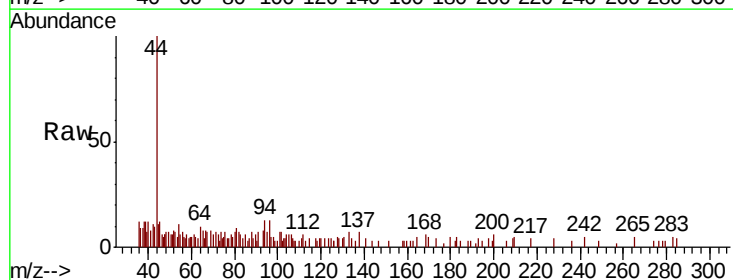
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309

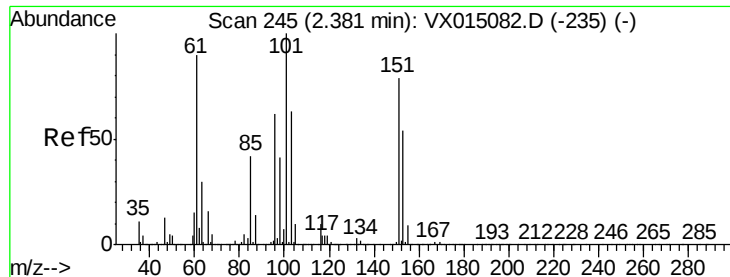
Tot Ion: 50 Resp: 1707
Ion Ratio Lower Upper
50 100
52 37.6 26.2 39.2



#5
Bromomethane
Concen: 0.324 ug/l
RT: 1.66 min Scan# 127
Delta R.T. 0.02 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

Tgt Ion: 94 Resp: 686
Ion Ratio Lower Upper
94 100
96 78.5 74.6 111.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.100 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

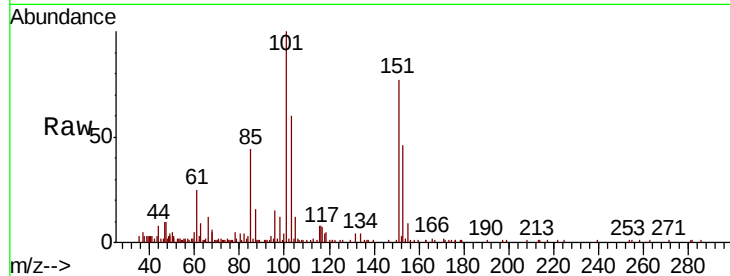
Tot Ion:101 Resp: 13155

Ion Ratio Lower Upper

101 100

85 43.2 33.7 50.5

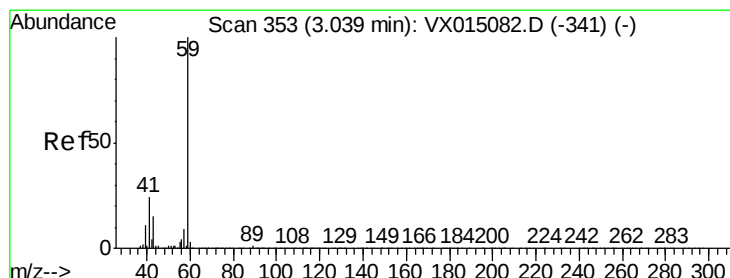
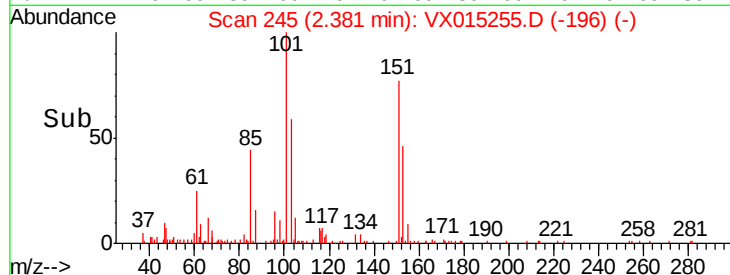
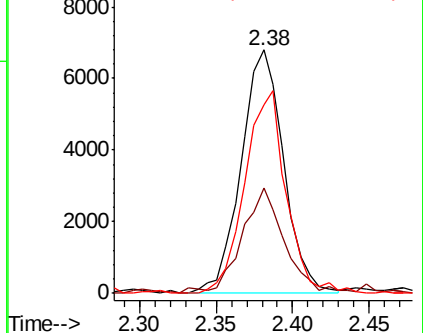
151 80.8 64.0 96.0



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



#11

Tert butyl alcohol

Concen: 1.277 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX015255.D

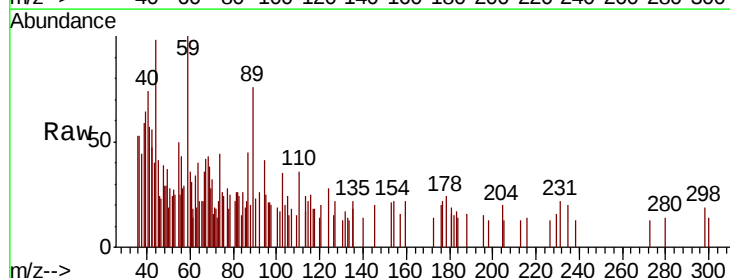
Acq: 13 Mar 2020 13:27

Tgt Ion: 59 Resp: 720

Ion Ratio Lower Upper

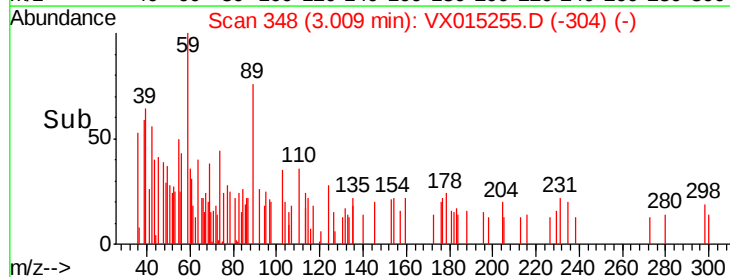
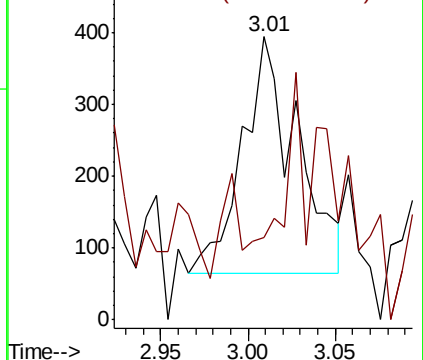
59 100

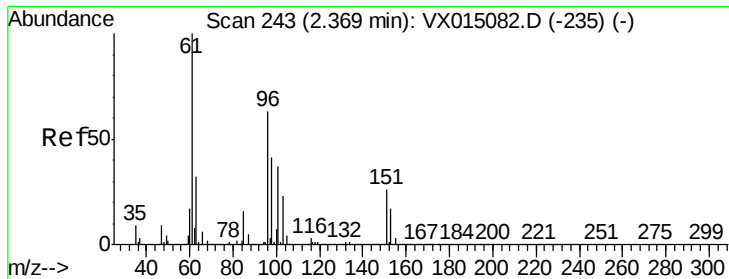
57 18.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.019 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

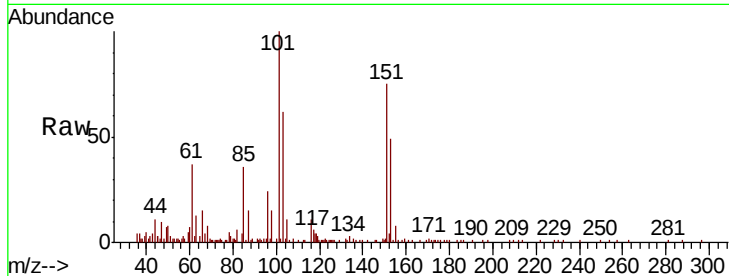
Tot Ion: 96 Resp: 2712

Ion Ratio Lower Upper

96 100

61 151.1 126.2 189.4

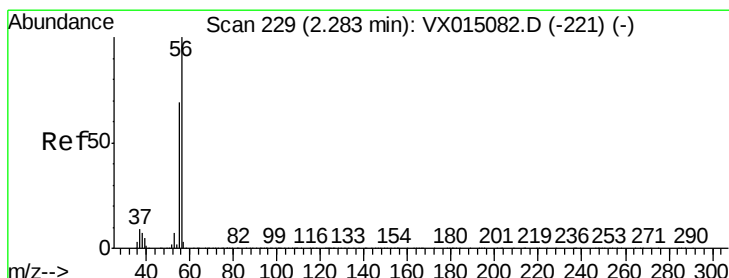
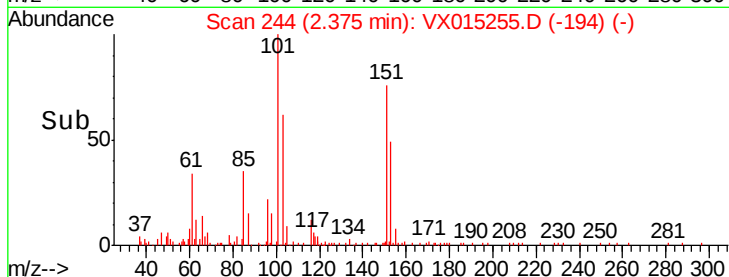
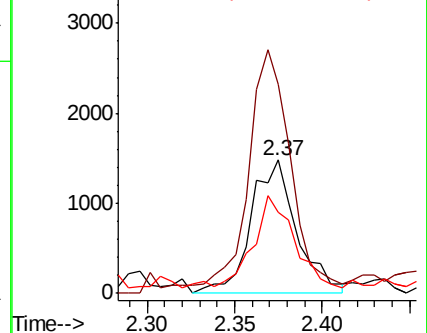
98 57.0 51.4 77.0



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



#13

Acrolein

Concen: 0.204 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX015255.D

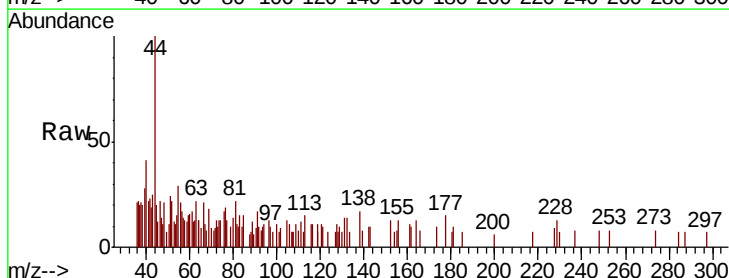
Acq: 13 Mar 2020 13:27

Tgt Ion: 56 Resp: 108

Ion Ratio Lower Upper

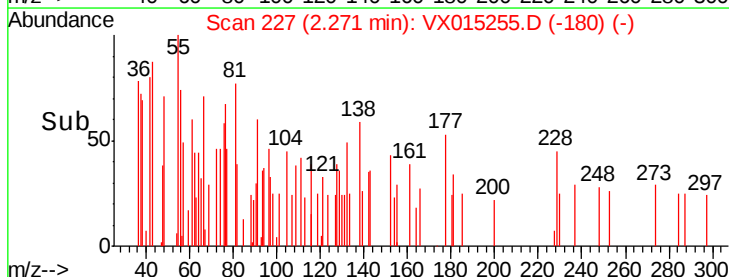
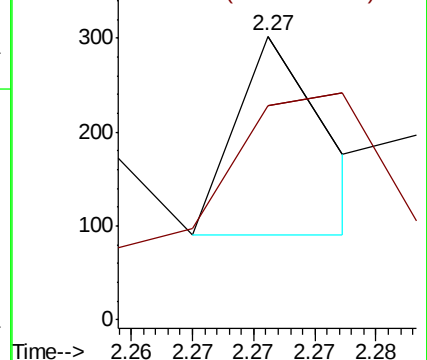
56 100

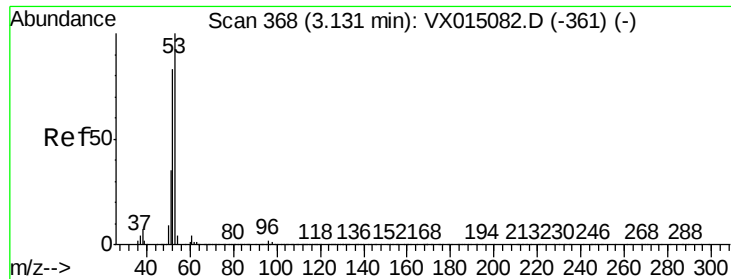
55 150.9 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.247 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

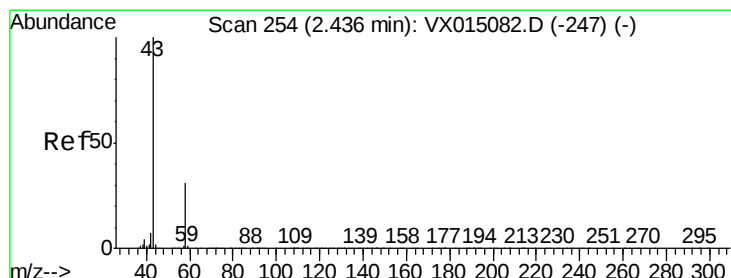
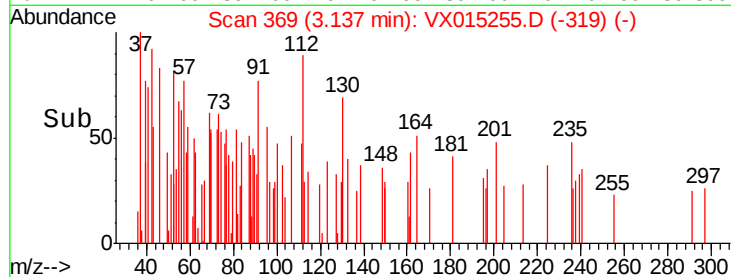
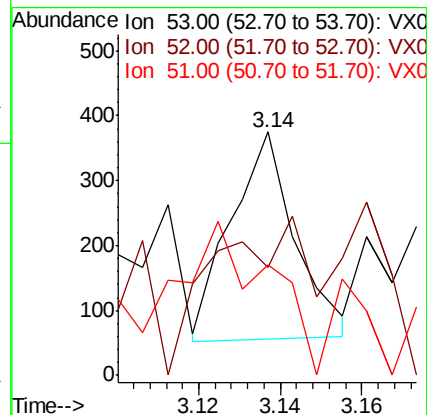
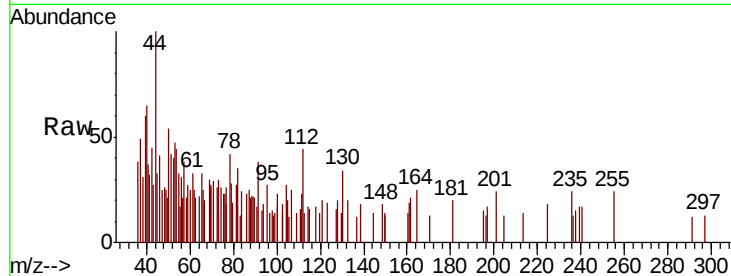
Tot Ion: 53 Resp: 347

Ion Ratio Lower Upper

53 100

52 113.0 66.6 100.0#

51 102.6 29.0 43.6#



#16

Acetone

Concen: 3.273 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015255.D

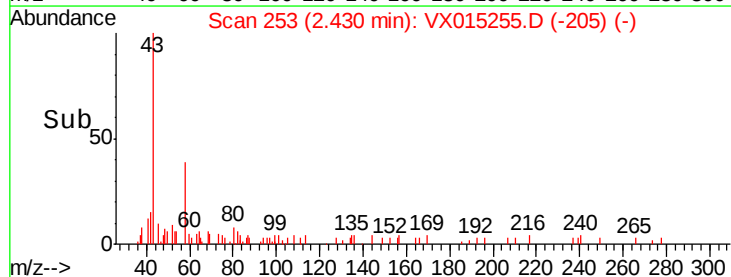
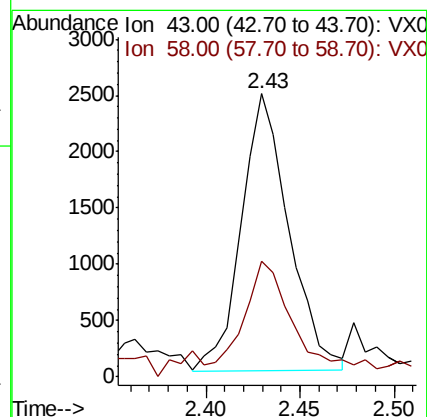
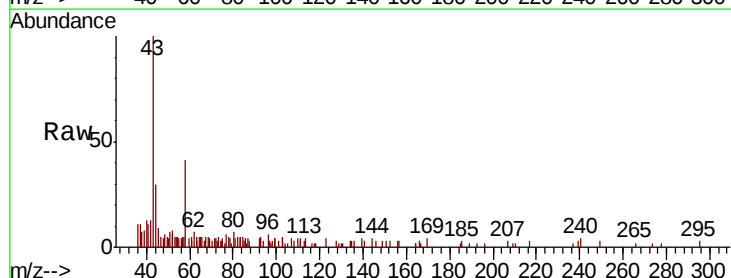
Acq: 13 Mar 2020 13:27

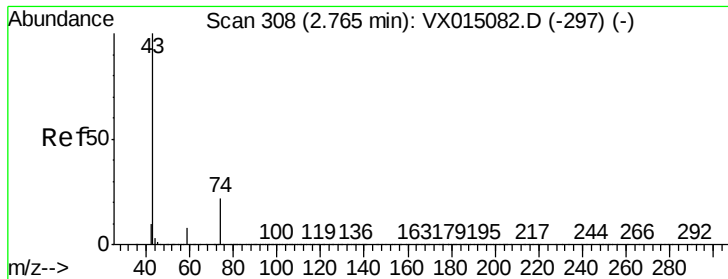
Tgt Ion: 43 Resp: 4307

Ion Ratio Lower Upper

43 100

58 35.7 24.8 37.2

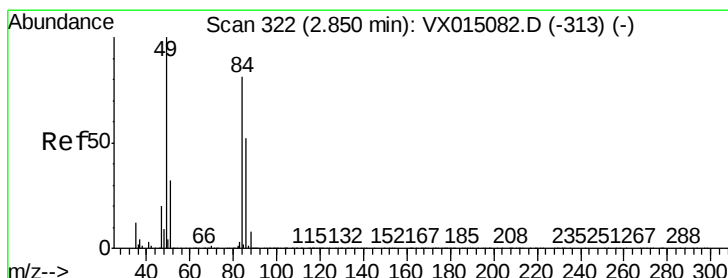
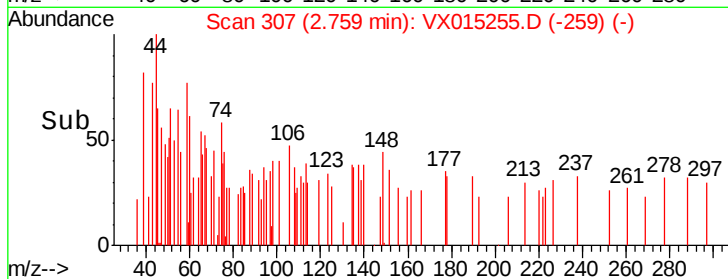
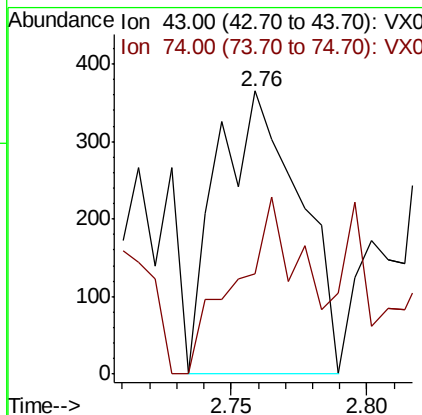
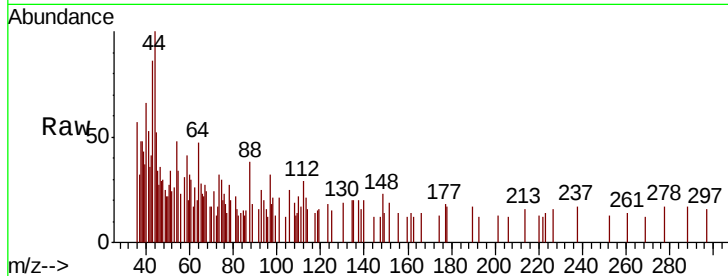




#18
Methyl Acetate
Concen: 0.239 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

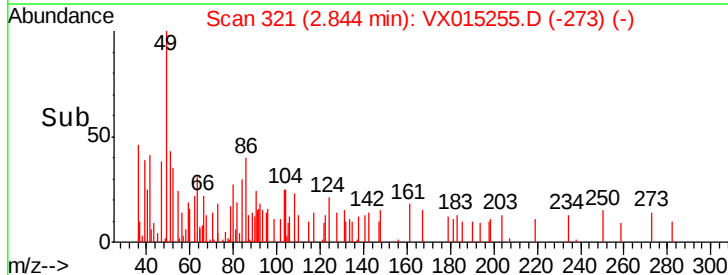
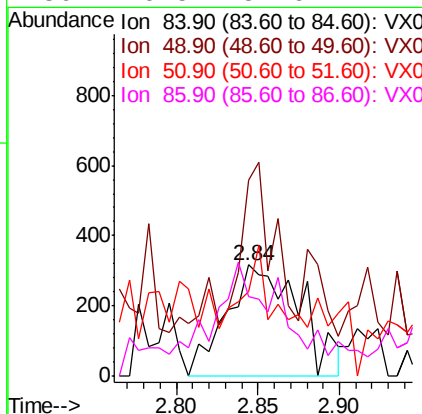
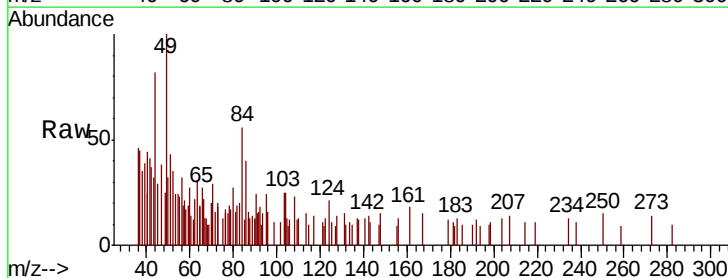
Instrument :
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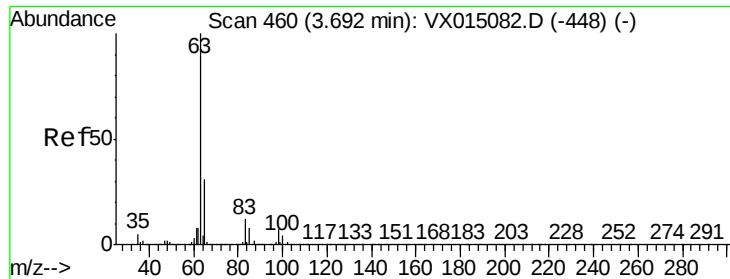
Tot Ion: 43 Resp: 770
Ion Ratio Lower Upper
43 100
74 49.5 18.8 28.2#



#20
Methylene Chloride
Concen: 0.325 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

Tgt Ion: 84 Resp: 1000
Ion Ratio Lower Upper
84 100
49 141.1 99.4 149.2
51 19.6 31.5 47.3#
86 46.5 51.6 77.4#





#24

1,1-Dichloroethane

Concen: 0.257 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.01 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

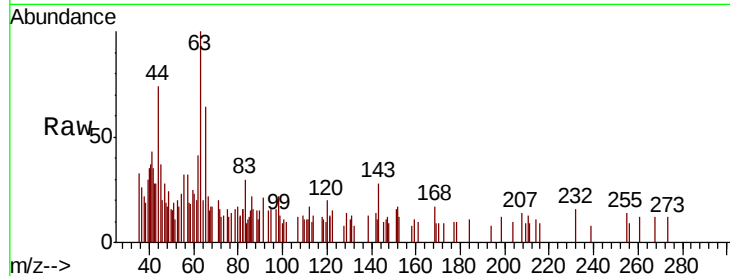
Tot Ion: 63 Resp: 1321

Ion Ratio Lower Upper

63 100

98 26.6 3.7 11.1#

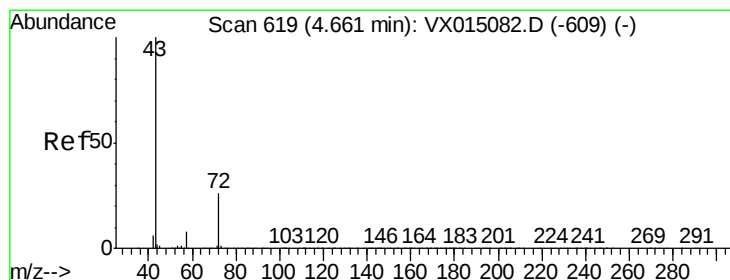
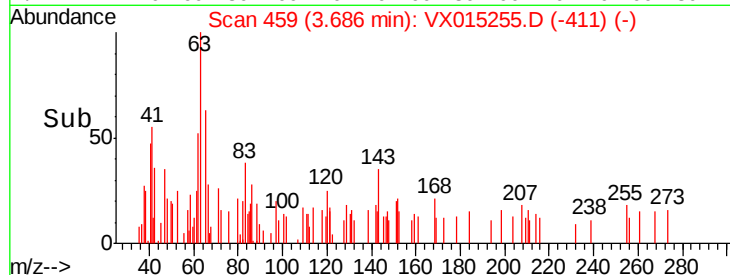
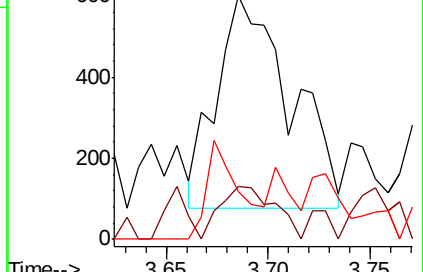
100 24.1 2.1 6.5#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.249 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX015255.D

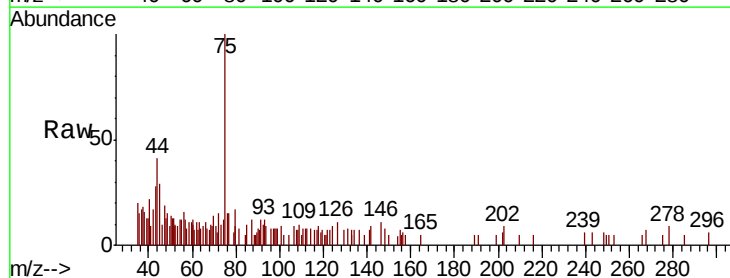
Acq: 13 Mar 2020 13:27

Tgt Ion: 43 Resp: 479

Ion Ratio Lower Upper

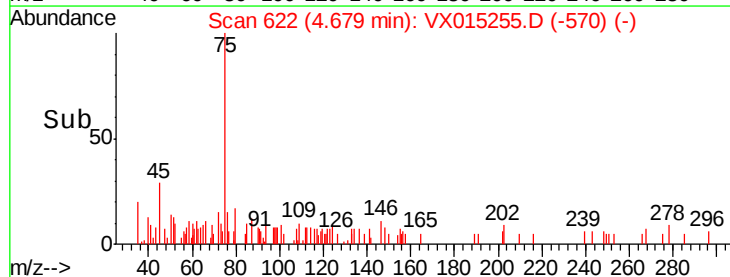
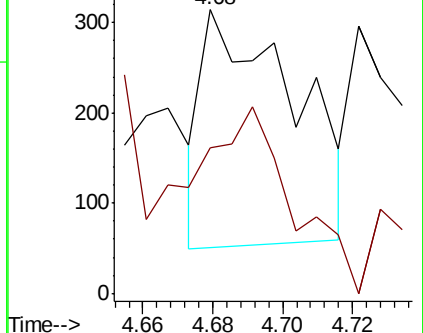
43 100

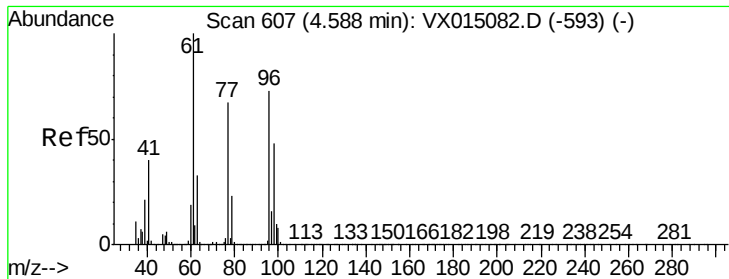
72 63.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



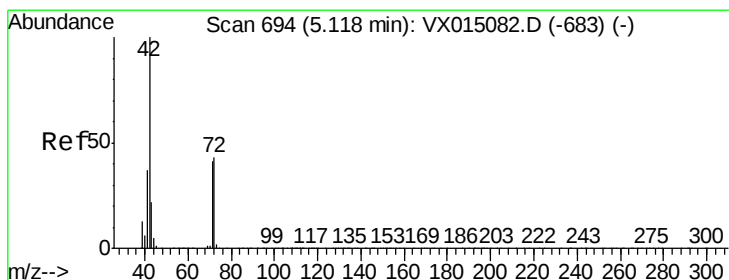
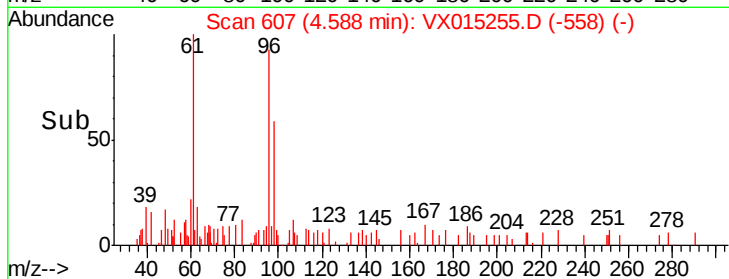
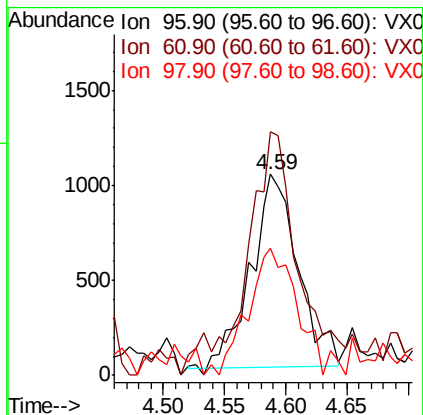
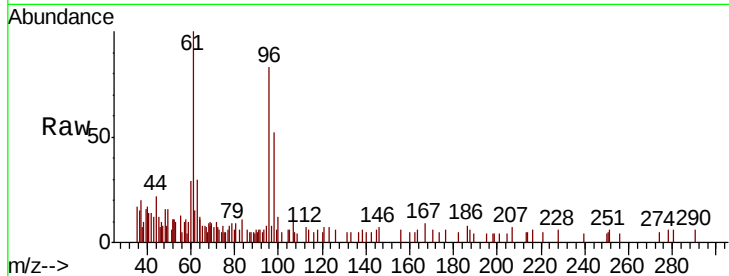


#27

cis-1,2-Dichloroethene
Concen: 0.850 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309

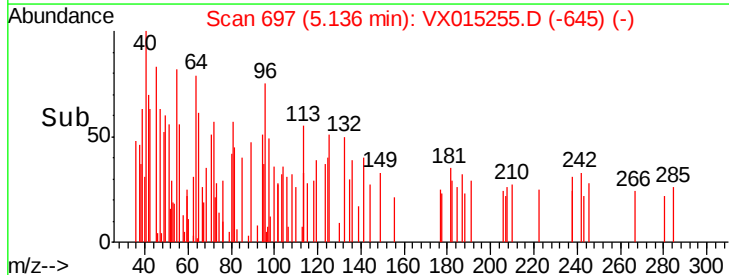
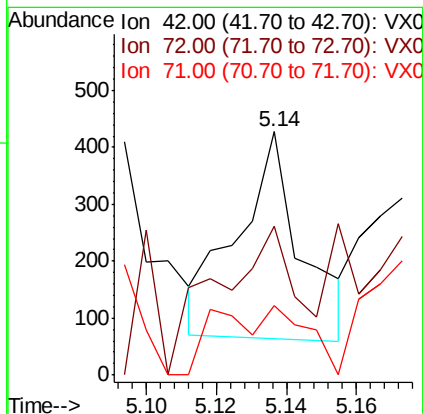
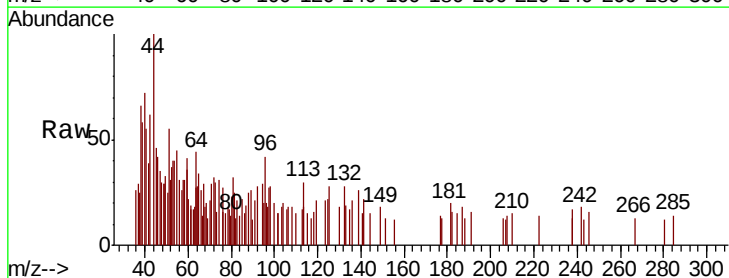
Tot Ion: 96 Resp: 2711
Ion Ratio Lower Upper
96 100
61 123.5 0.0 286.8
98 70.2 0.0 128.4

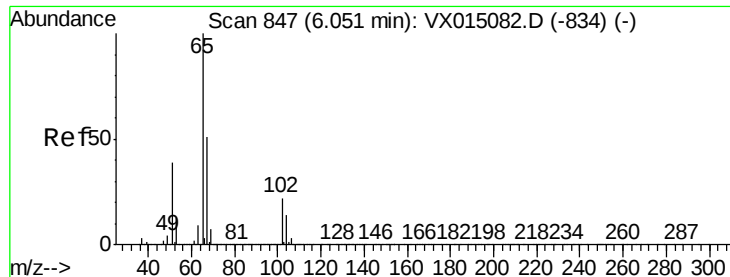


#29

Tetrahydrofuran
Concen: 0.370 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

Tgt Ion: 42 Resp: 460
Ion Ratio Lower Upper
42 100
72 92.2 36.4 54.6#
71 23.0 33.3 49.9#





#33

1,2-Dichloroethane-d4

Concen: 48.347 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

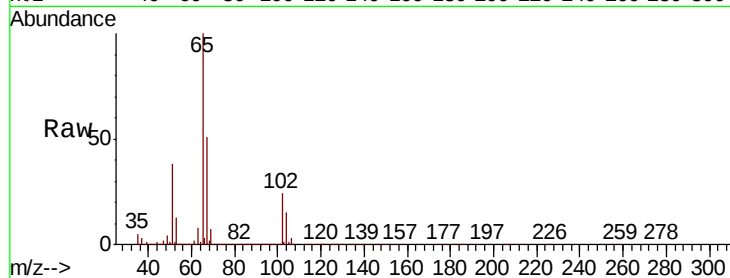
RE120D3-20200309

Tot Ion: 65 Resp: 157111

Ion Ratio Lower Upper

65 100

67 54.2 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

60000

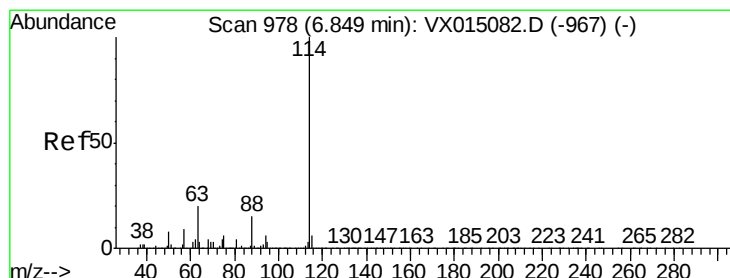
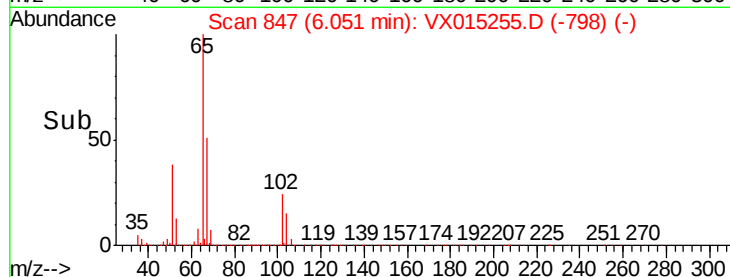
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

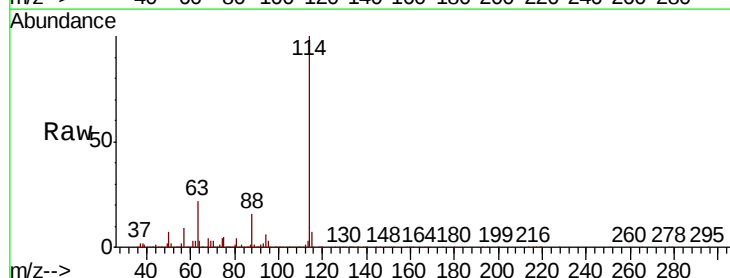
Tgt Ion: 114 Resp: 439084

Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.0

88 15.6 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

250000

200000

150000

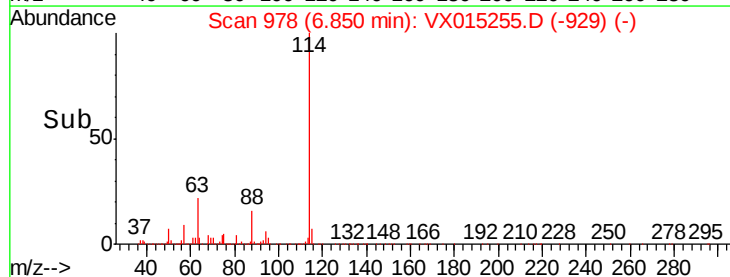
100000

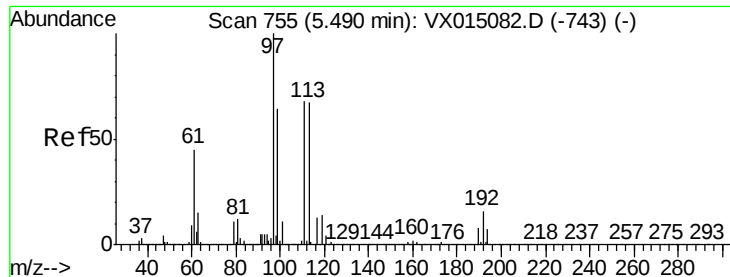
50000

0

Time-->

6.70 6.80 6.90 7.00

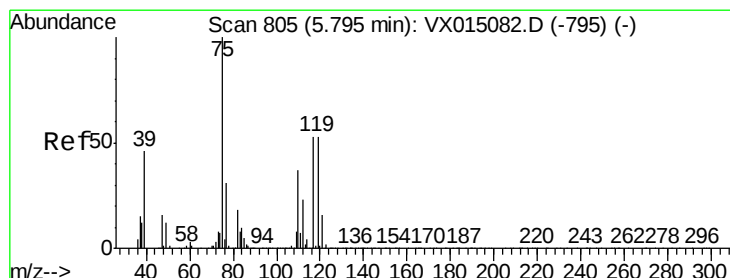
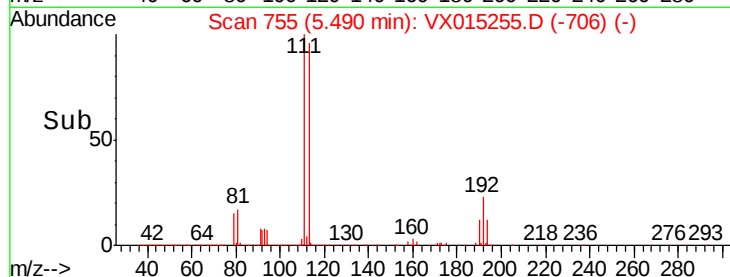
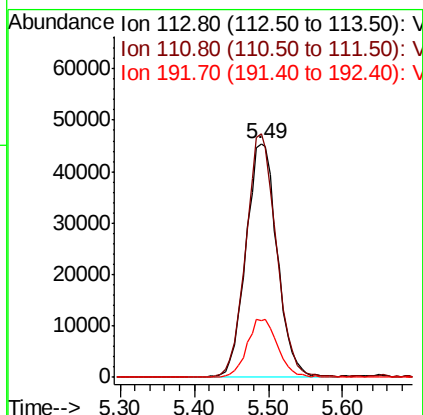
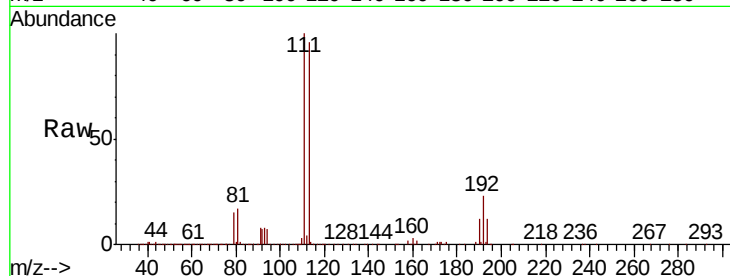




#35
 Dibromofluoromethane
 Concen: 48.329 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX015255.D
 Acq: 13 Mar 2020 13:27

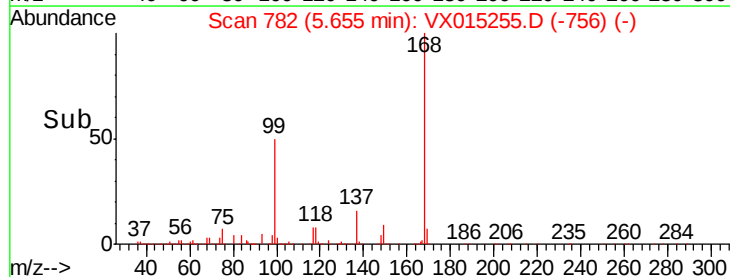
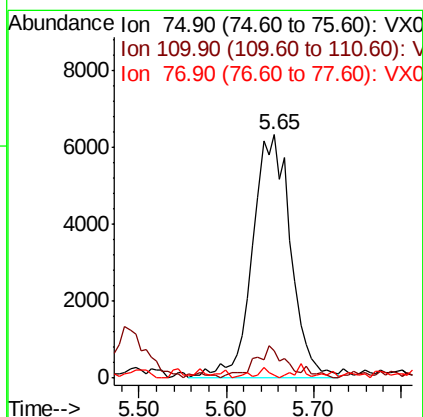
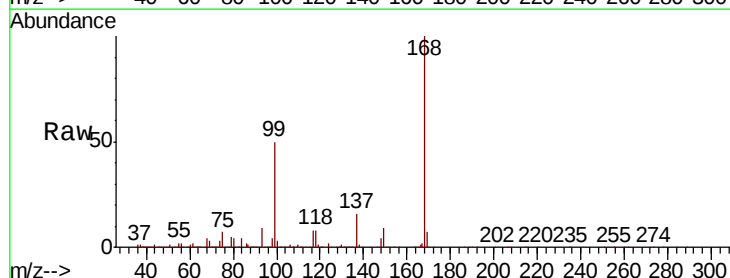
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20200309

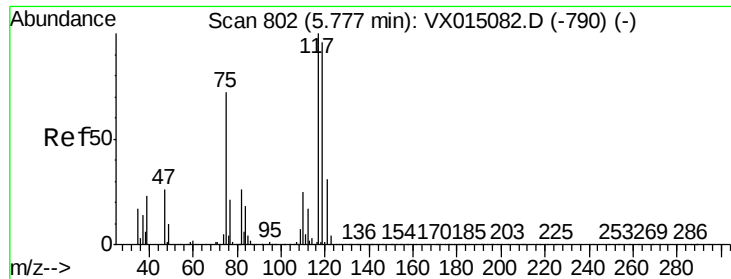
Tot Ion:113 Resp: 133874
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.6 123.8
 192 24.4 18.6 28.0



#36
 1,1-Dichloropropene
 Concen: 4.754 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015255.D
 Acq: 13 Mar 2020 13:27

Tgt Ion: 75 Resp: 19296
 Ion Ratio Lower Upper
 75 100
 110 10.2 17.9 53.8#
 77 1.6 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 0.312 ug/l

RT: 5.77 min Scan# 801

Delta R.T. -0.01 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

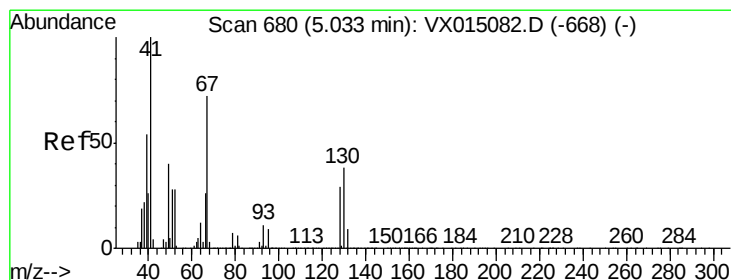
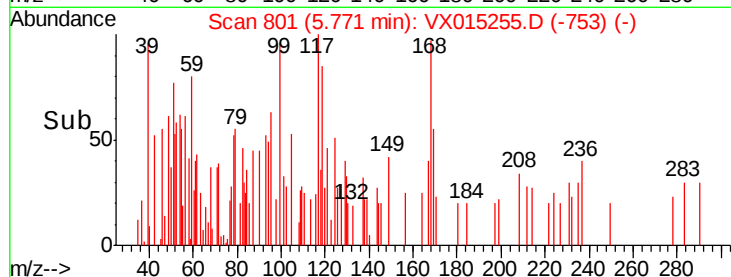
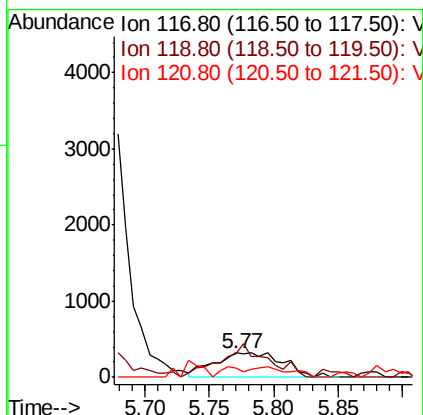
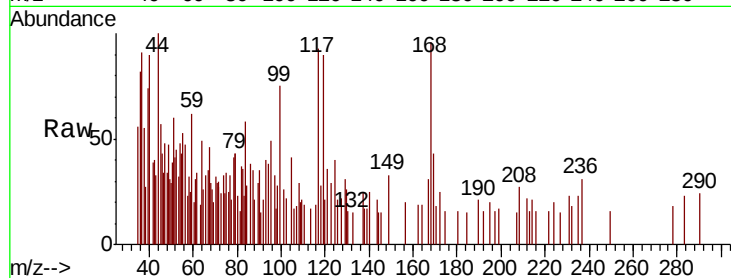
Tot Ion:117 Resp: 1196

Ion Ratio Lower Upper

117 100

119 79.7 76.9 115.3

121 23.1 24.6 37.0#



#41

Methacrylonitrile

Concen: 0.253 ug/l

RT: 5.03 min Scan# 680

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Tgt Ion: 41 Resp: 573

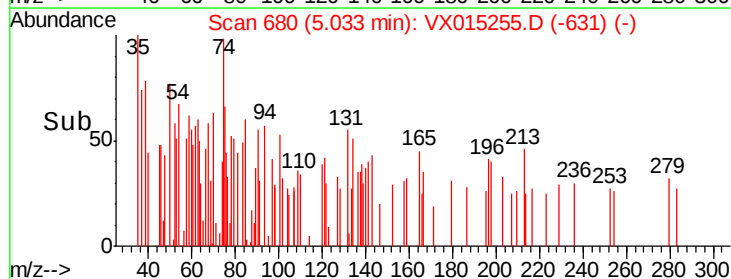
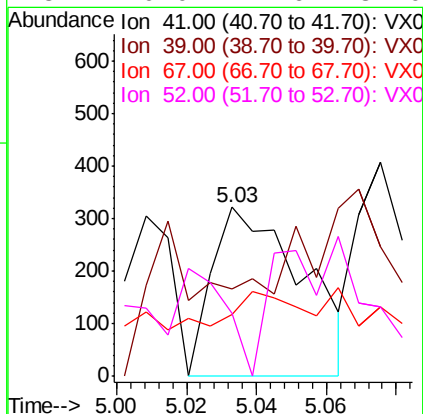
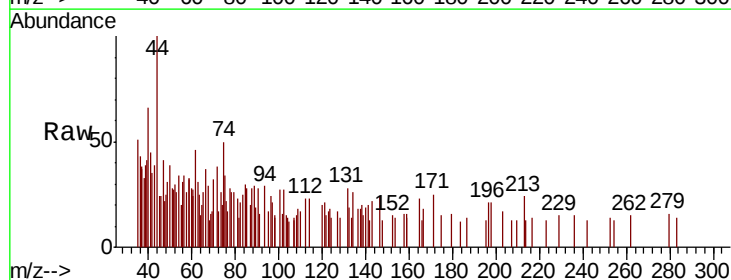
Ion Ratio Lower Upper

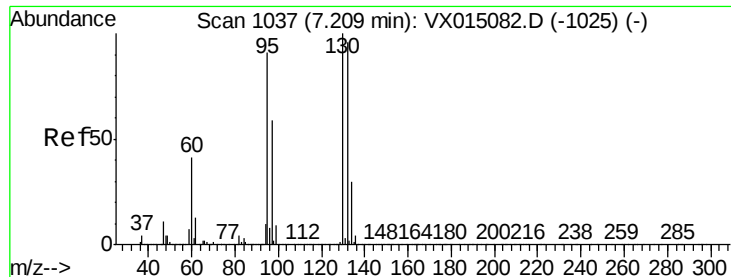
41 100

39 0.0 43.9 65.9#

67 14.3 57.8 86.8#

52 0.0 22.6 34.0#





#44

Trichloroethene

Concen: 173.311 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

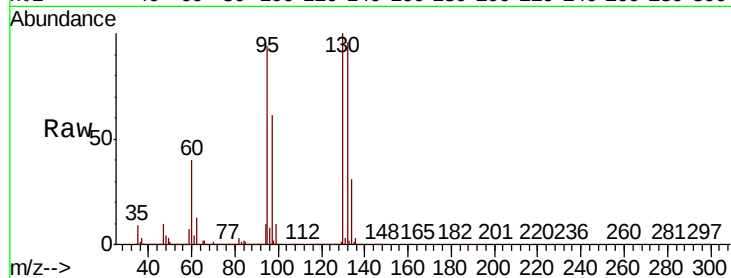
RE120D3-20200309

Tot Ion:130 Resp: 581264

Ion Ratio Lower Upper

130 100

95 93.5 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

300000

250000

200000

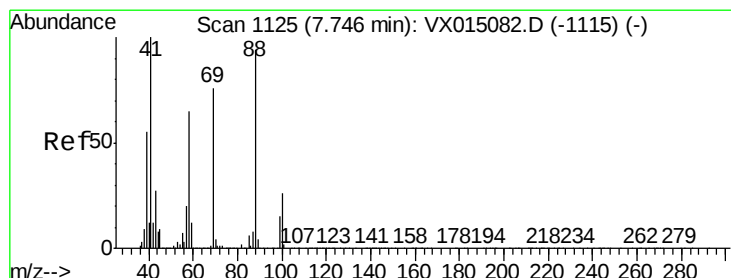
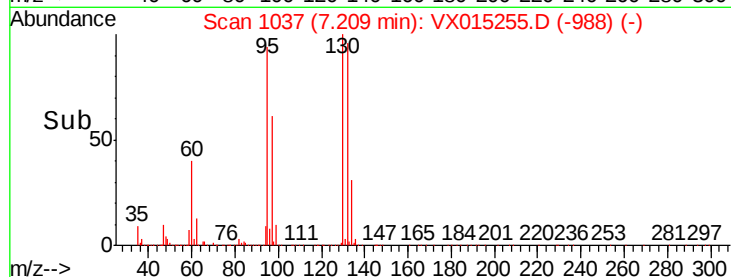
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 4.774 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

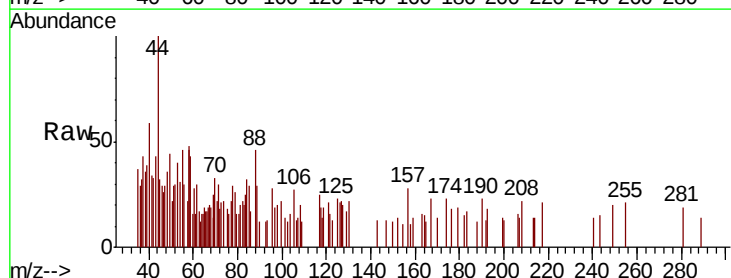
Tgt Ion: 88 Resp: 348

Ion Ratio Lower Upper

88 100

43 107.2 27.0 40.4#

58 104.9 55.6 83.4#



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

600

500

400

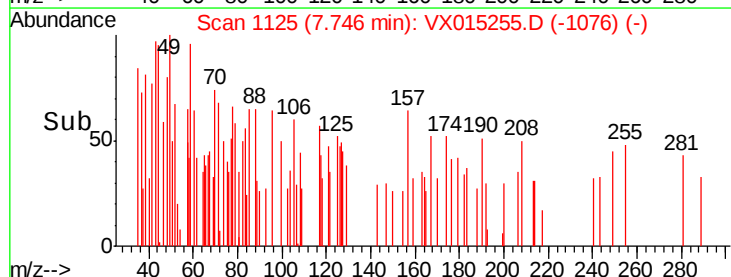
300

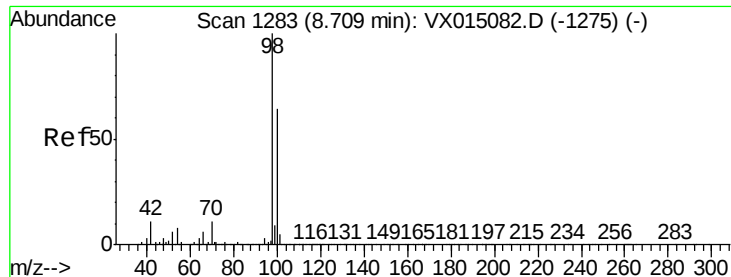
200

100

0

Time-->





#50

Toluene-d8

Concen: 50.964 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

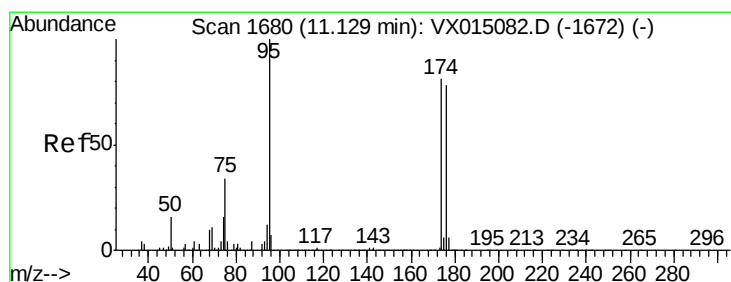
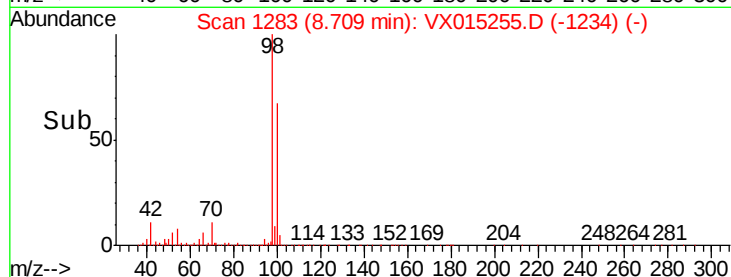
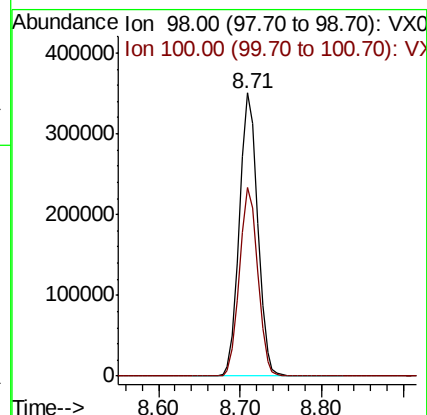
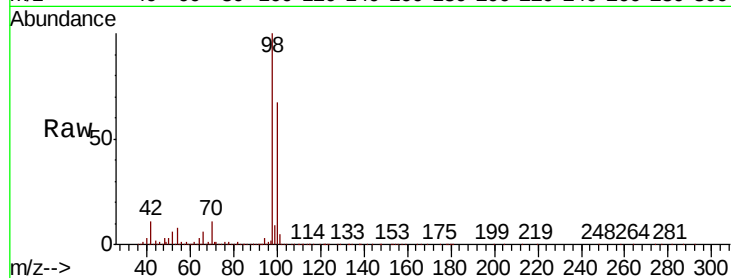
RE120D3-20200309

Tot Ion: 98 Resp: 537001

Ion Ratio Lower Upper

98 100

100 66.5 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 52.787 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

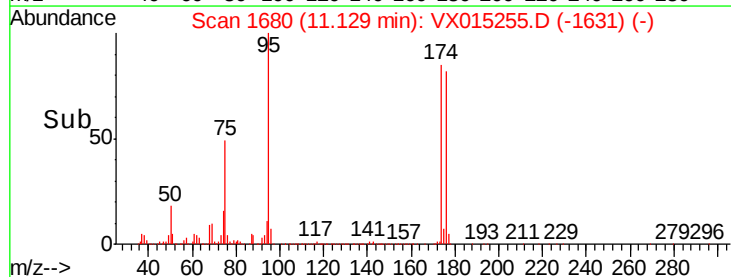
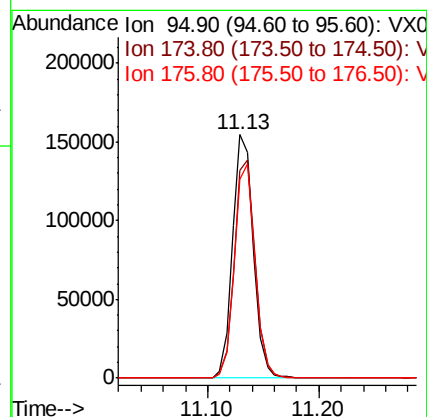
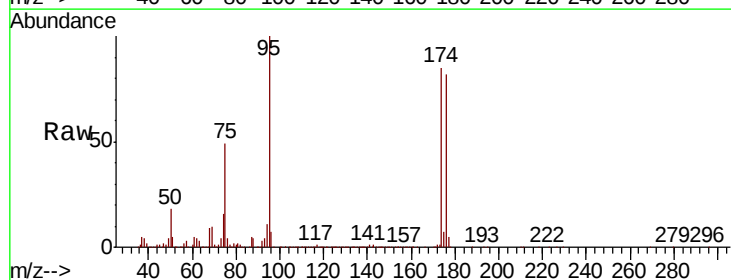
Tgt Ion: 95 Resp: 198394

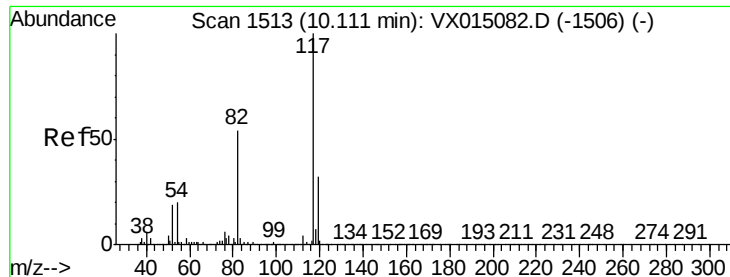
Ion Ratio Lower Upper

95 100

174 90.2 0.0 177.6

176 87.7 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: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

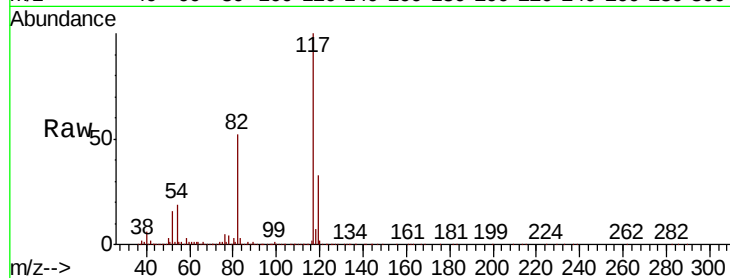
Tot Ion:117 Resp: 422677

Ion Ratio Lower Upper

117 100

82 51.8 43.3 64.9

119 32.6 25.8 38.8

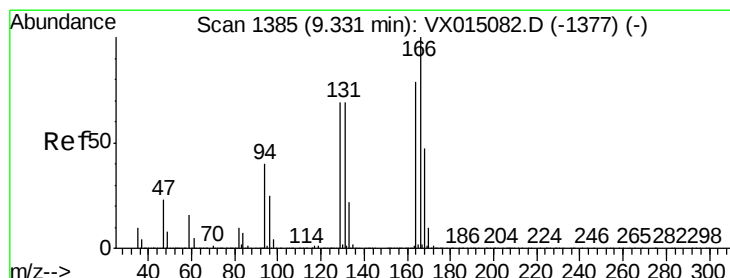
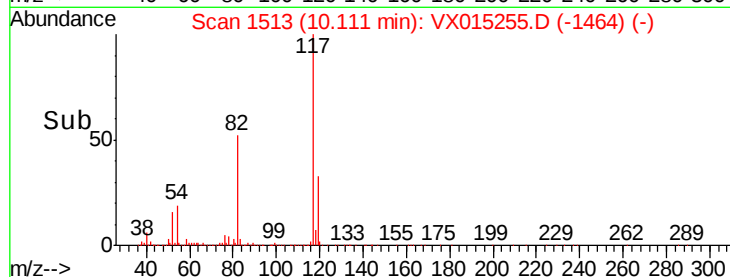
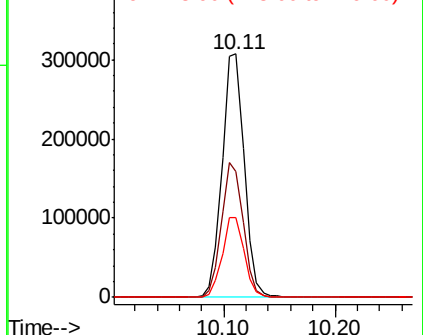


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.920 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015255.D

Acq: 13 Mar 2020 13:27

Tgt Ion:164 Resp: 3214

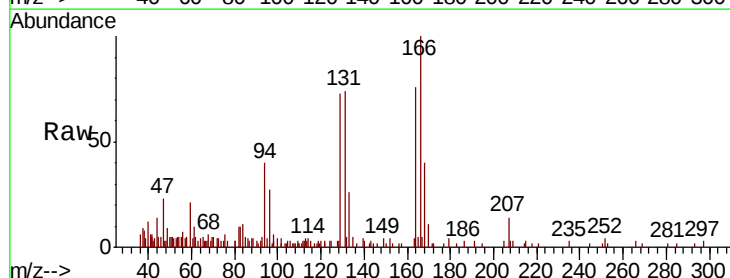
Ion Ratio Lower Upper

164 100

166 131.9 101.1 151.7

129 96.3 69.4 104.0

131 97.1 69.8 104.8



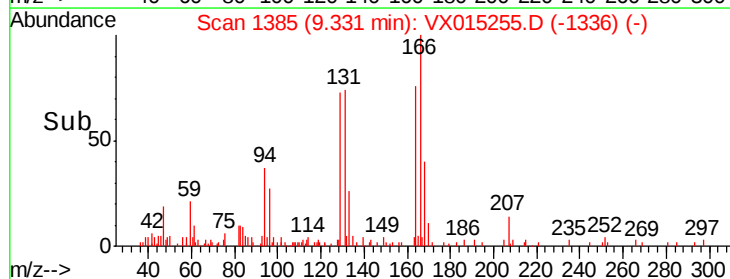
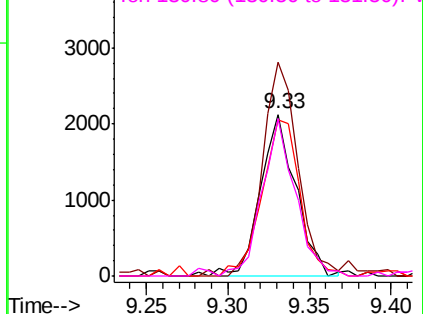
Abundance

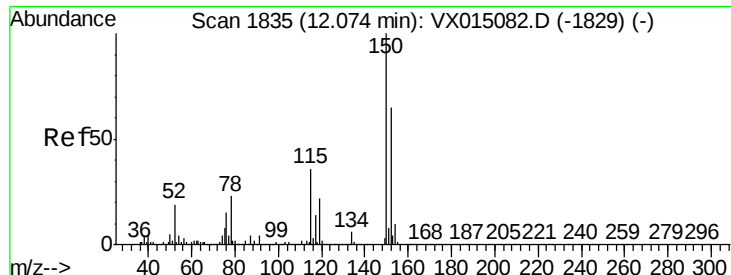
Ion 163.80 (163.50 to 164.50): V

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: VX015255.D

Acq: 13 Mar 2020 13:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309

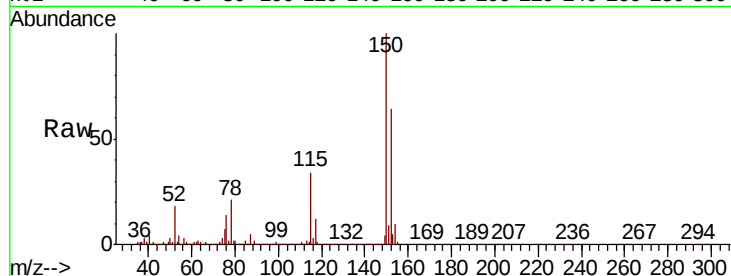
Tot Ion:152 Resp: 215182

Ion Ratio Lower Upper

152 100

115 55.2 38.2 114.6

150 159.3 0.0 343.8

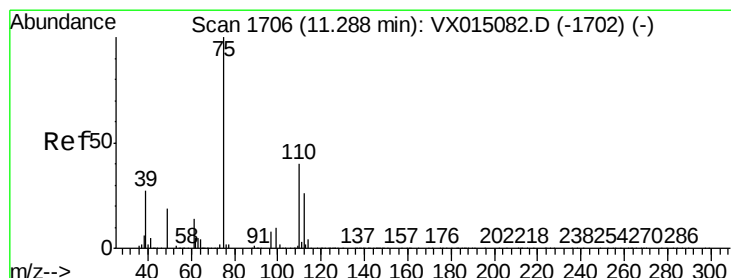
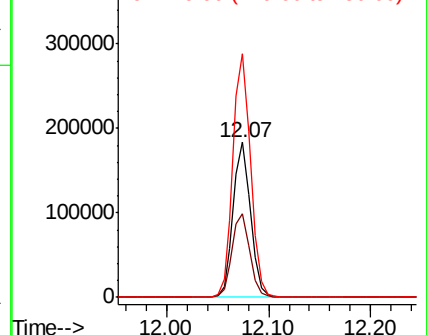
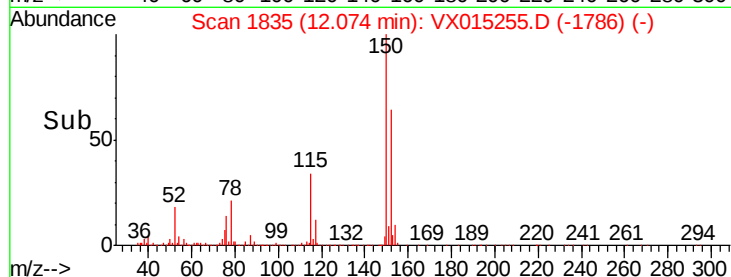


Abundance

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: 21.967 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015255.D

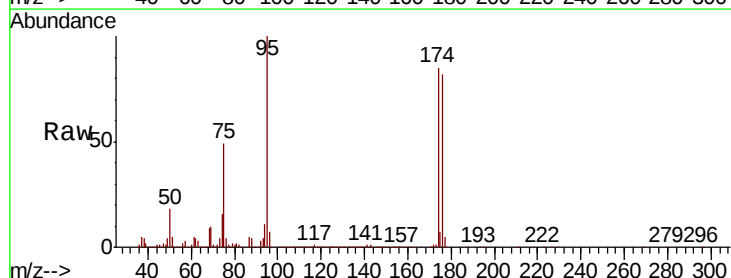
Acq: 13 Mar 2020 13:27

Tgt Ion: 75 Resp: 94289

Ion Ratio Lower Upper

75 100

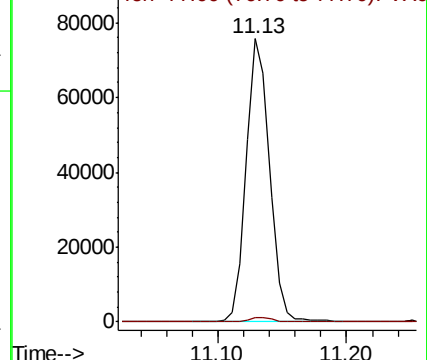
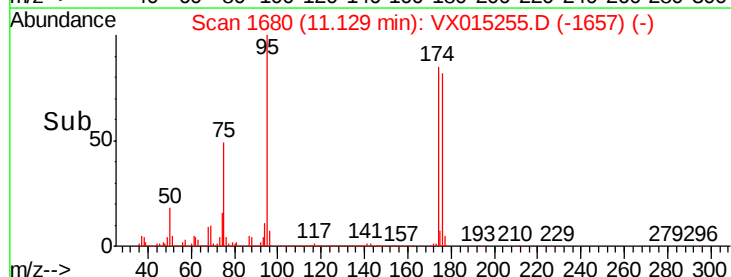
77 1.8 22.6 67.8#

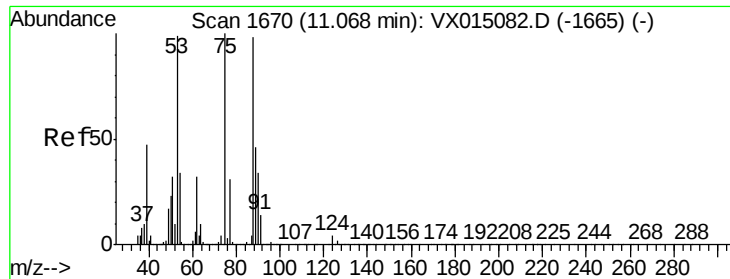


Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

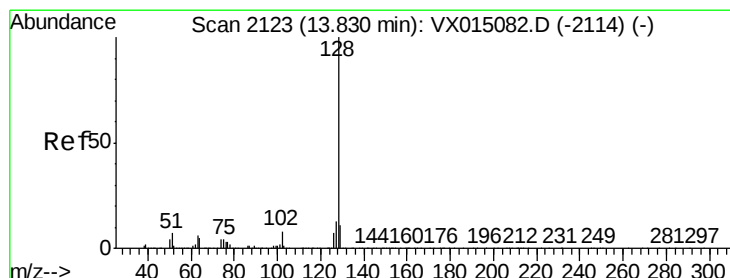
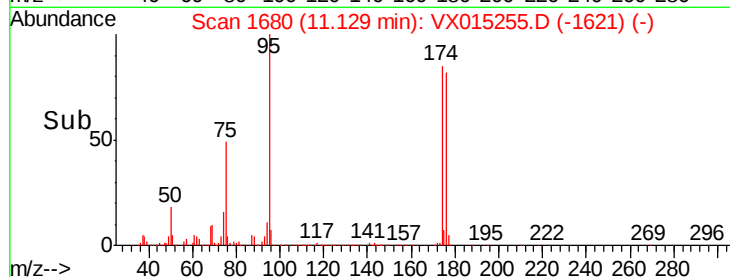
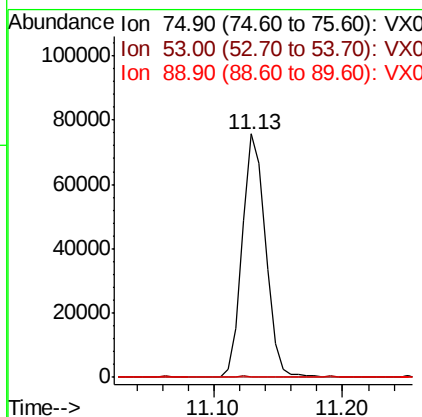
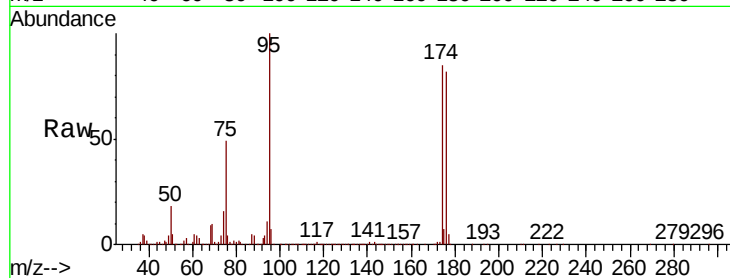




#81
trans-1,4-Dichloro-2-butene
Concen: 62.344 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309

Tot Ion: 75 Resp: 94289
Ion Ratio Lower Upper
75 100
53 0.5 77.9 116.9#
89 0.2 36.2 54.2#



#95
Naphthalene
Concen: 1.451 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015255.D
Acq: 13 Mar 2020 13:27

Tgt Ion: 128 Resp: 462
Ion Ratio Lower Upper
128 100
127 34.6 10.3 15.5#
129 0.0 8.6 13.0#

