

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015289.D
 Acq On : 16 Mar 2020 13:19
 Operator : JC/SP
 Sample : L1903-09DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20200309DL

Quant Time: Mar 17 07:40:44 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	273143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	435102	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	431038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	229117	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	154203	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
35) Dibromofluoromethane	5.48	113	131903	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	8.71	98	534924	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.13	95	207347	55.67	ug/l	0.00
Spiked Amount			Recovery	=	111.34%	

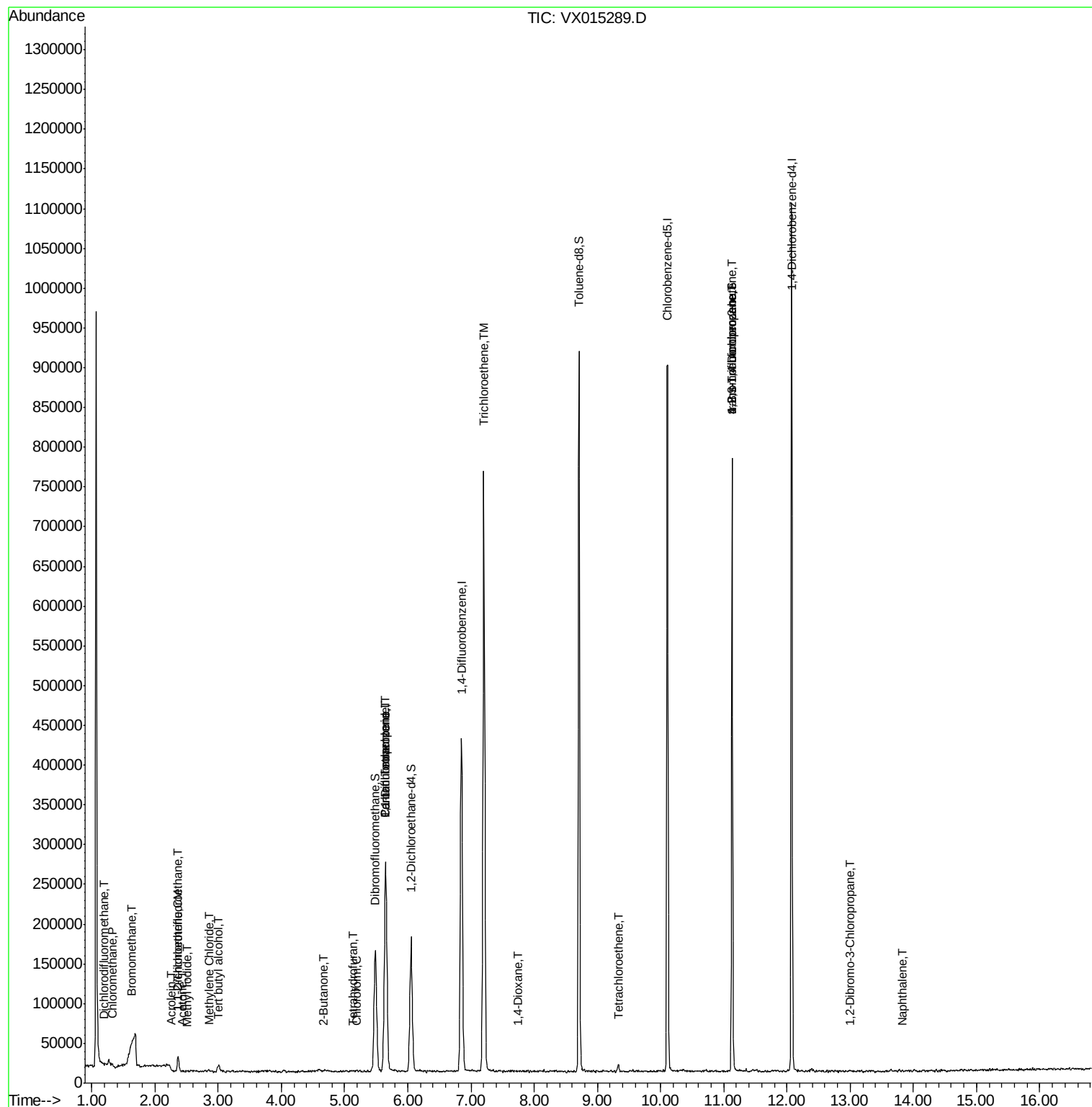
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	680	0.284	ug/l #	29
3) Chloromethane	1.32	50	1023	0.302	ug/l #	42
5) Bromomethane	1.63	94	961	0.455	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.36	101	5339	2.076	ug/l	91
10) Methyl Iodide	2.50	142	1294	0.445	ug/l #	43
11) Tert butyl alcohol	3.00	59	6362	11.316	ug/l #	79
12) 1,1-Dichloroethene	2.36	96	3322	1.252	ug/l	93
13) Acrolein	2.27	56	132	0.250	ug/l	98
16) Acetone	2.44	43	735	0.560	ug/l #	50
20) Methylene Chloride	2.84	84	1457	0.474	ug/l #	78
25) 2-Butanone	4.67	43	547	0.285	ug/l #	49
29) Tetrahydrofuran	5.12	42	290	0.234	ug/l #	49
30) Chloroform	5.19	83	999	0.200	ug/l	85
36) 1,1-Dichloropropene	5.65	75	18477	4.594	ug/l #	53
38) Carbon Tetrachloride	5.64	117	24758	6.521	ug/l #	17
44) Trichloroethene	7.20	130	302331	90.969	ug/l	95
49) 1,4-Dioxane	7.74	88	72	0.997	ug/l #	1
64) Tetrachloroethene	9.33	164	1881	0.528	ug/l #	82
76) 1,2,3-Trichloropropane	11.13	75	100555	22.002	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	100555	62.443	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	263	0.269	ug/l #	1
95) Naphthalene	13.84	128	877	1.476	ug/l #	88

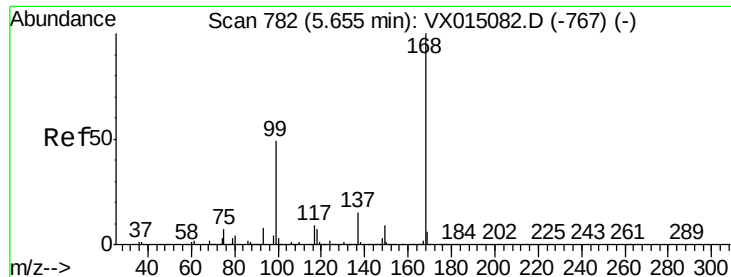
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031620\
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Quant Time: Mar 17 07:40:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

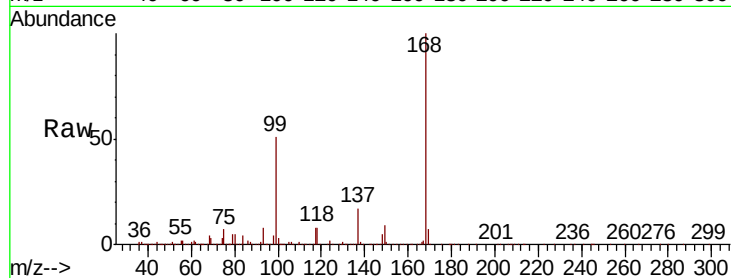
RE120D1-20200309DL

Tot Ion:168 Resp: 273143

Ion Ratio Lower Upper

168 100

99 50.7 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

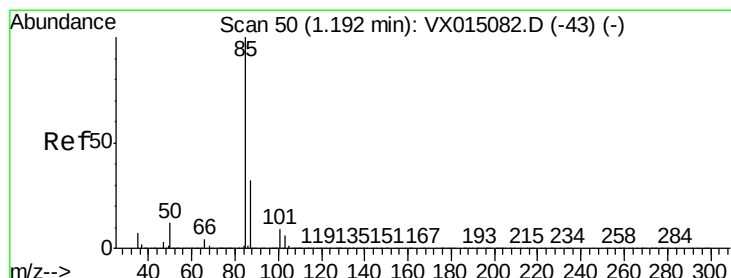
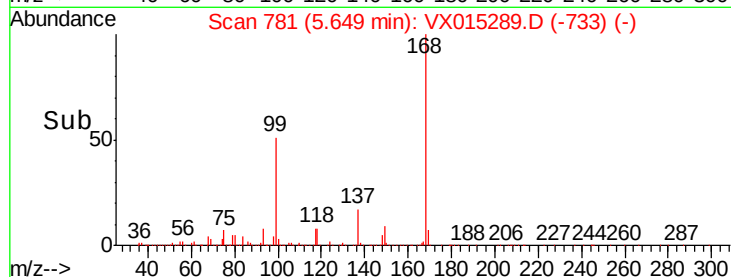
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.284 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX015289.D

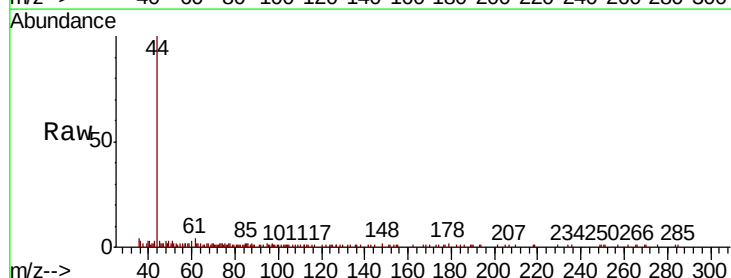
Acq: 16 Mar 2020 13:19

Tgt Ion: 85 Resp: 680

Ion Ratio Lower Upper

85 100

87 72.1 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

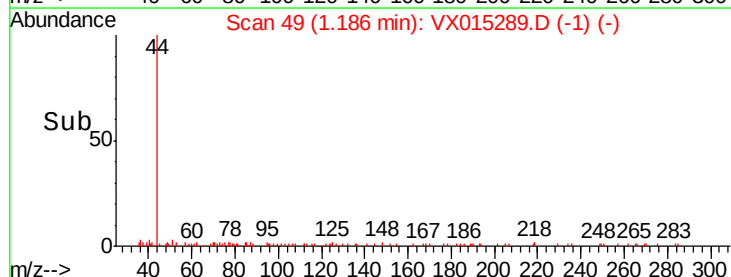
300

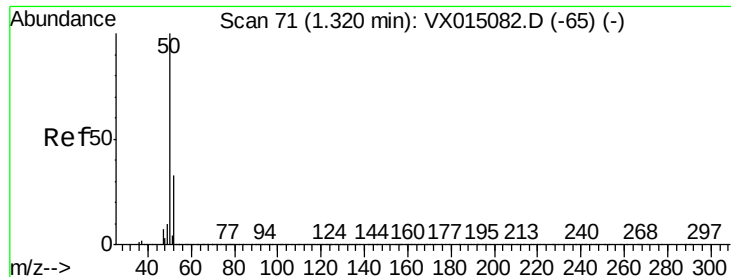
200

100

0

Time-->





#3

Chloromethane

Concen: 0.302 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

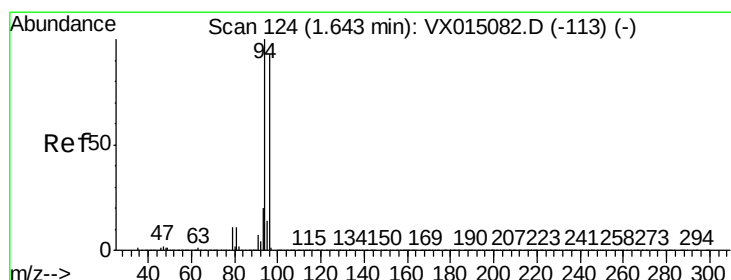
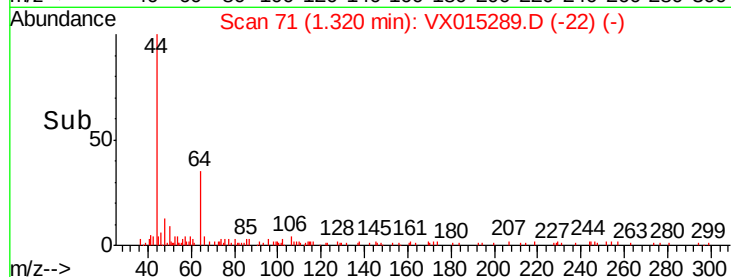
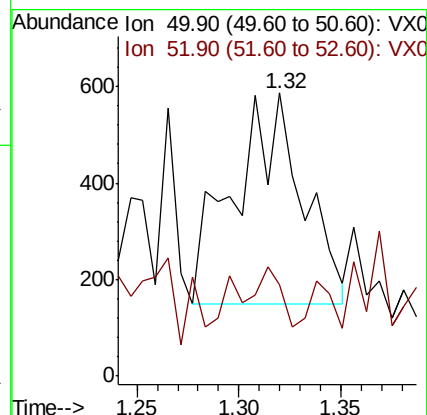
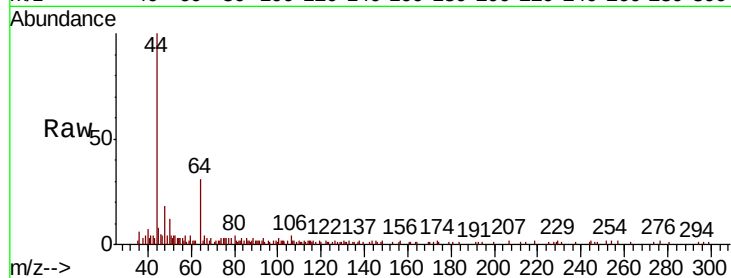
RE120D1-20200309DL

Tot Ion: 50 Resp: 1023

Ion Ratio Lower Upper

50 100

52 0.0 26.2 39.2#



#5

Bromomethane

Concen: 0.455 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.01 min

Lab File: VX015289.D

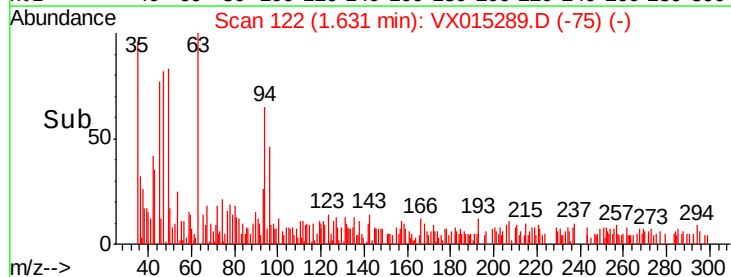
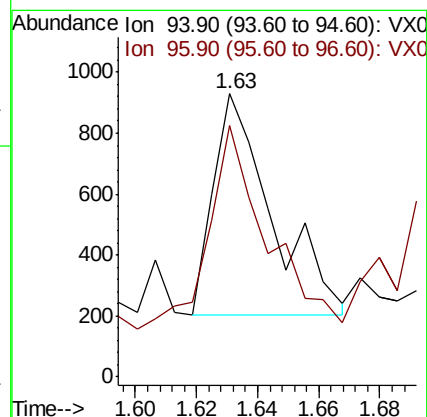
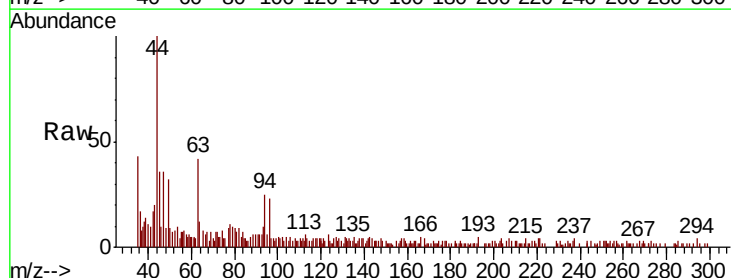
Acq: 16 Mar 2020 13:19

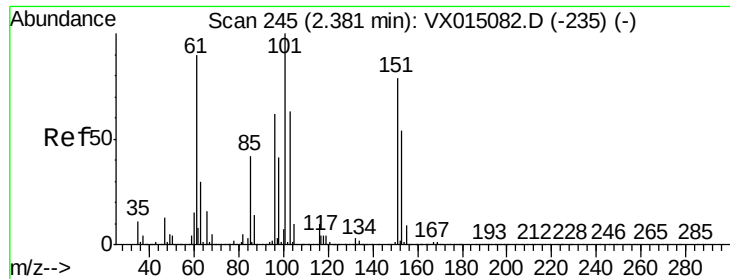
Tgt Ion: 94 Resp: 961

Ion Ratio Lower Upper

94 100

96 89.2 74.6 111.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.076 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.02 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

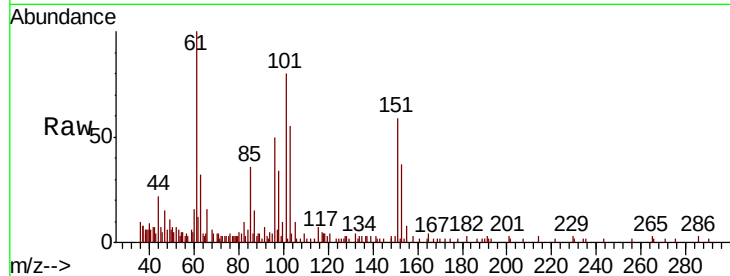
Tot Ion:101 Resp: 5339

Ion Ratio Lower Upper

101 100

85 48.5 33.7 50.5

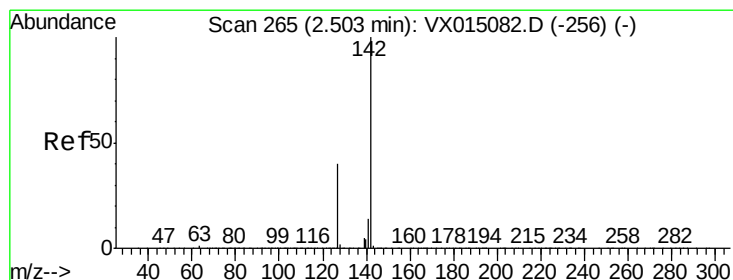
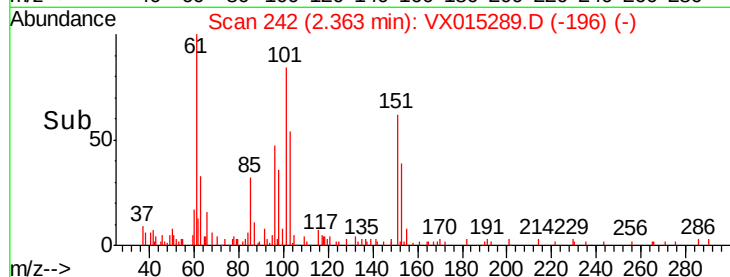
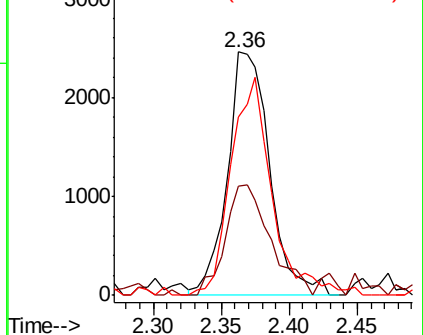
151 87.3 64.0 96.0



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



#10

Methyl Iodide

Concen: 0.445 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

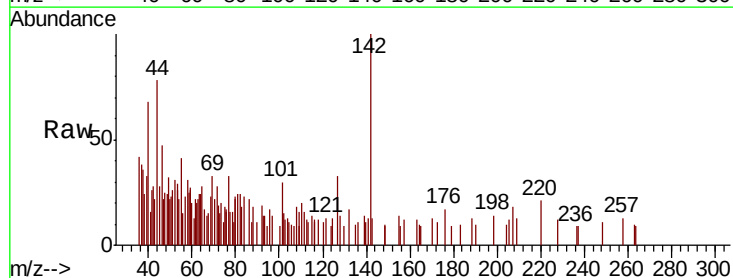
Tgt Ion:142 Resp: 1294

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

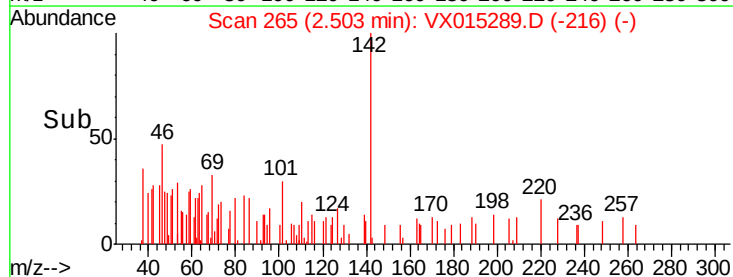
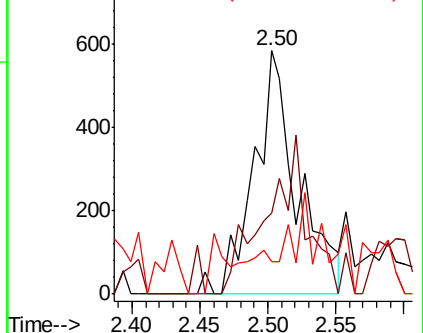
141 0.0 11.3 16.9#

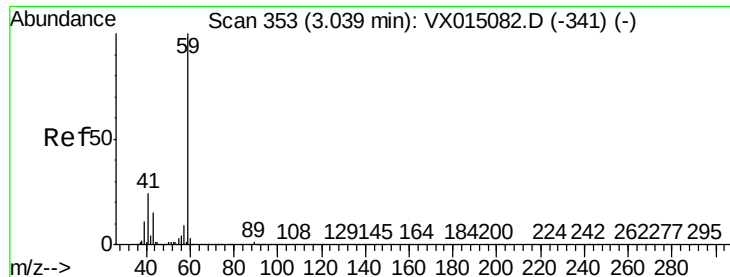


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



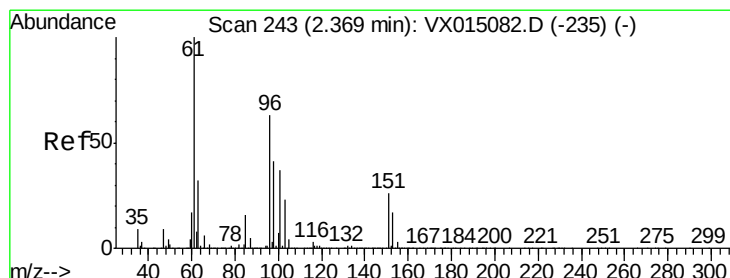
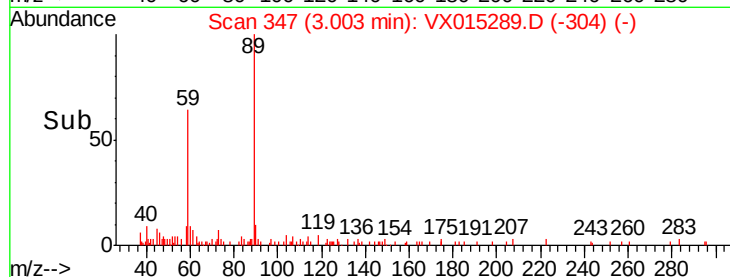
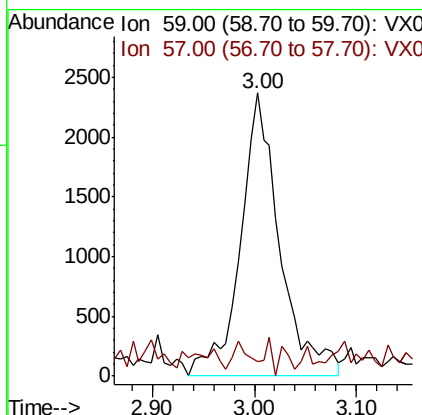
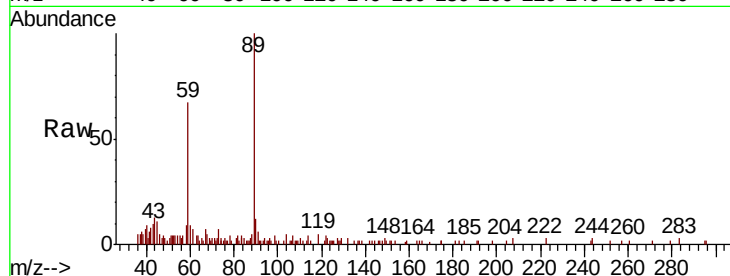


#11

Tert butyl alcohol
 Concen: 11.316 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX015289.D
 Acq: 16 Mar 2020 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20200309DL

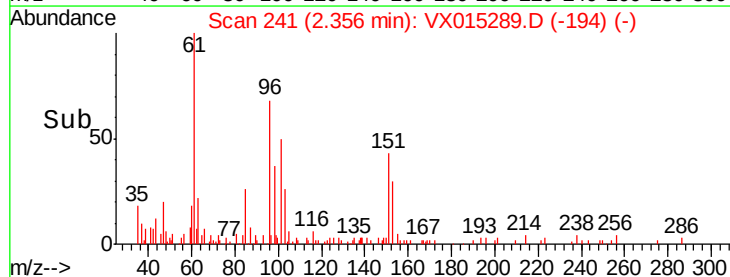
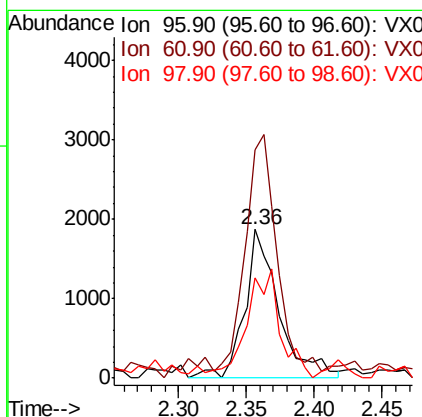
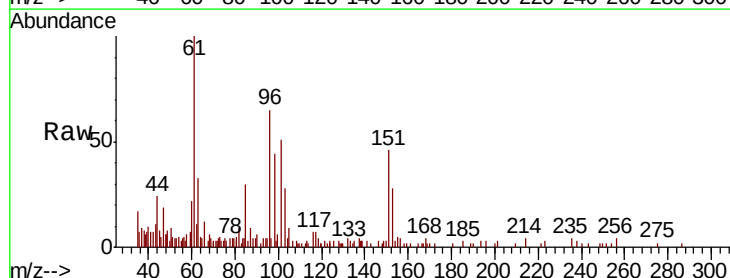
Tot Ion: 59 Resp: 6362
 Ion Ratio Lower Upper
 59 100
 57 2.6 8.2 12.4#

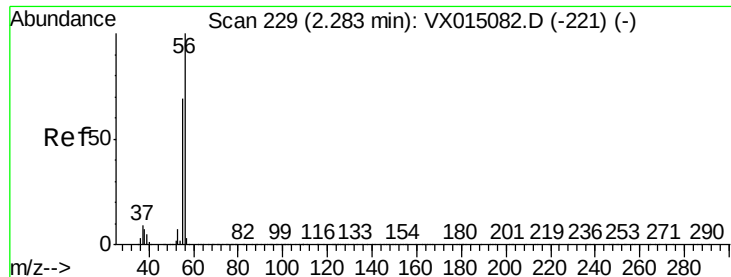


#12

1,1-Dichloroethene
 Concen: 1.252 ug/l
 RT: 2.36 min Scan# 241
 Delta R.T. -0.01 min
 Lab File: VX015289.D
 Acq: 16 Mar 2020 13:19

Tgt Ion: 96 Resp: 3322
 Ion Ratio Lower Upper
 96 100
 61 146.5 126.2 189.4
 98 67.4 51.4 77.0





#13

Acrolein

Concen: 0.250 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

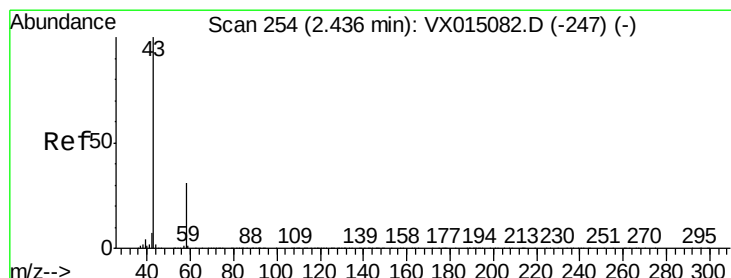
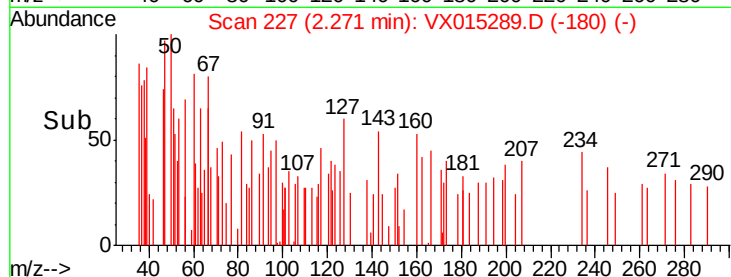
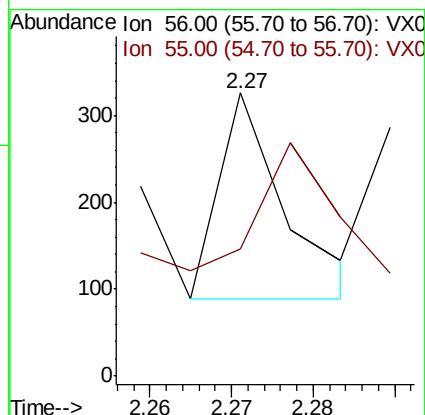
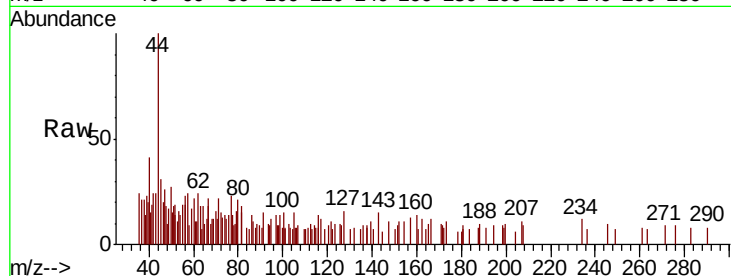
RE120D1-20200309DL

Tot Ion: 56.00 Resp: 132

Ion Ratio Lower Upper

56 100

55 67.4 55.4 83.0



#16

Acetone

Concen: 0.560 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015289.D

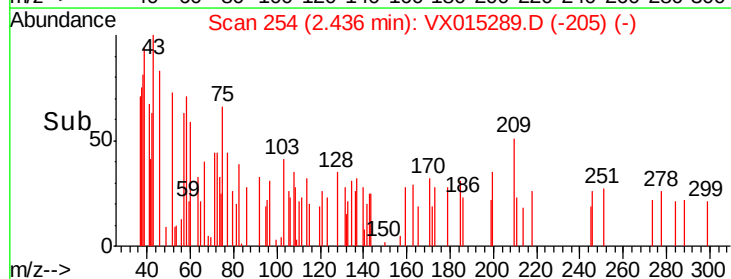
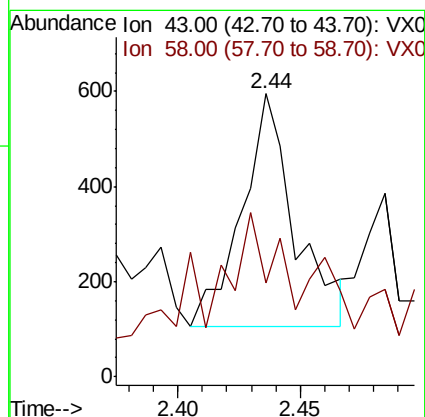
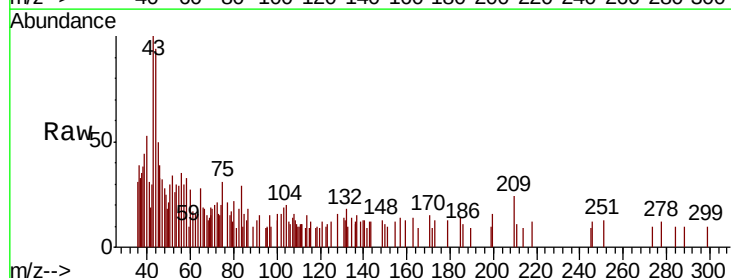
Acq: 16 Mar 2020 13:19

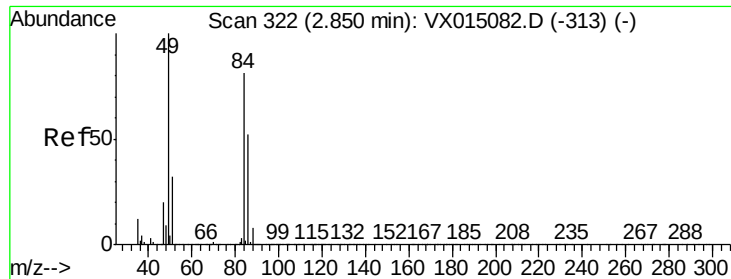
Tgt Ion: 43 Resp: 735

Ion Ratio Lower Upper

43 100

58 3.7 24.8 37.2#

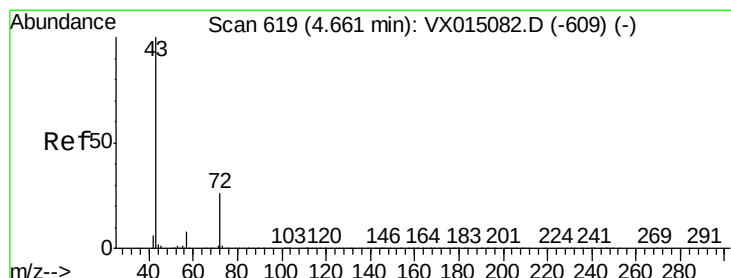
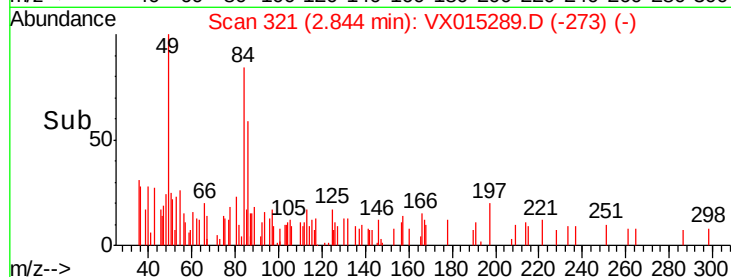
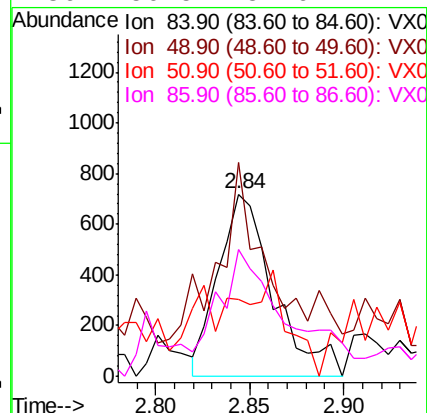
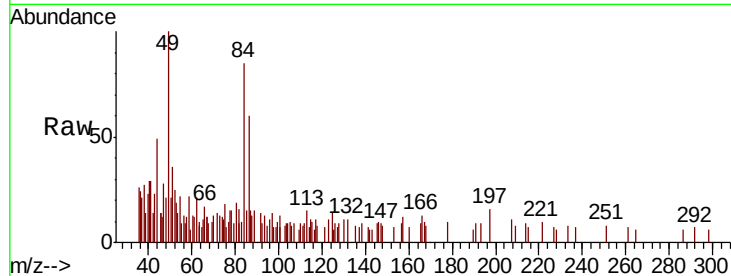




#20
Methylene Chloride
Concen: 0.474 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX015289.D
Acq: 16 Mar 2020 13:19

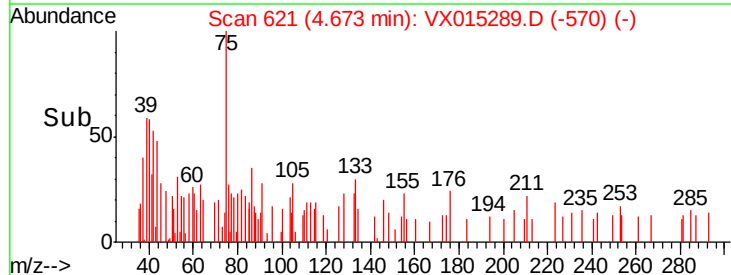
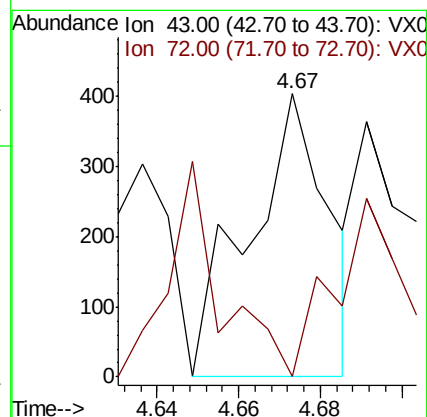
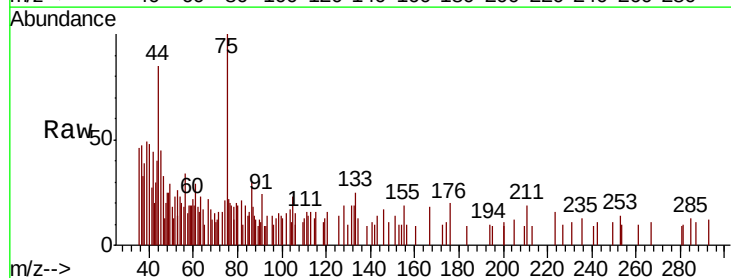
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20200309DL

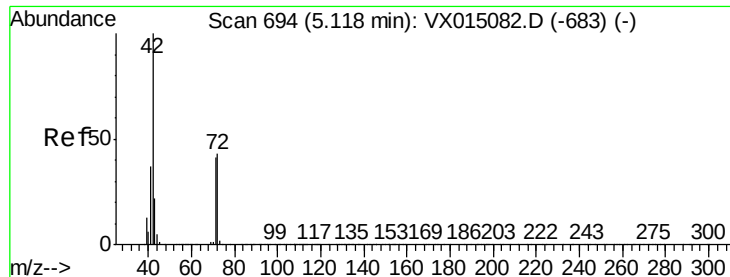
Tot Ion:	84	Resp:	1457
Ion	Ratio	Lower	Upper
84	100		
49	94.0	99.4	149.2#
51	23.8	31.5	47.3#
86	56.5	51.6	77.4



#25
2-Butanone
Concen: 0.285 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX015289.D
Acq: 16 Mar 2020 13:19

Tgt Ion:	43	Resp:	547
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	30.8#





#29

Tetrahydrofuran

Concen: 0.234 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

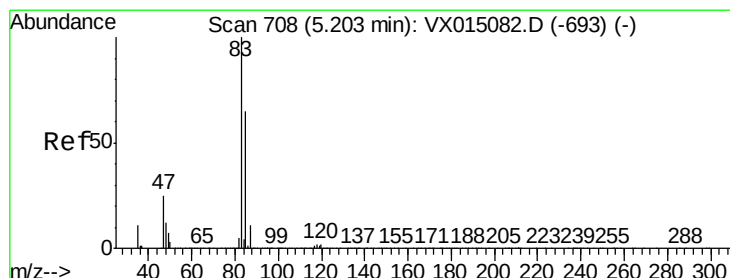
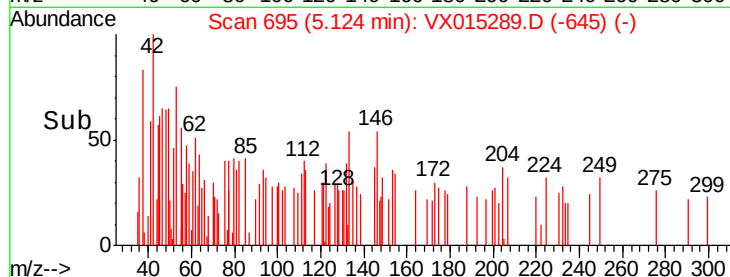
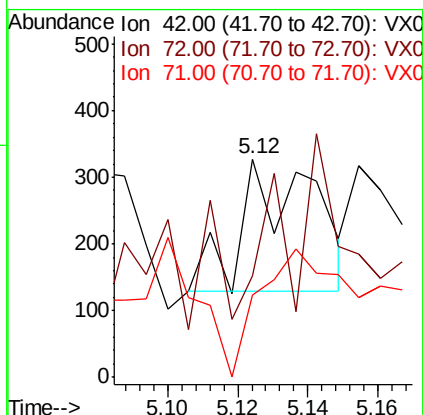
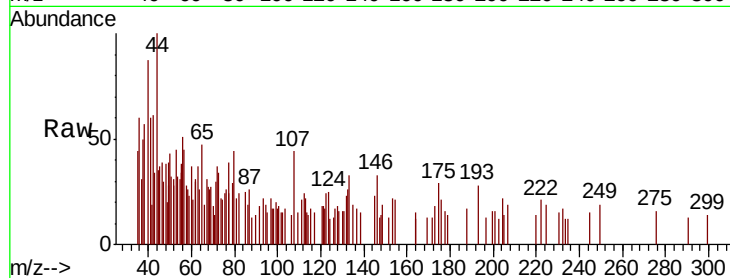
Tot Ion: 42 Resp: 290

Ion Ratio Lower Upper

42 100

72 70.3 36.4 54.6#

71 0.0 33.3 49.9#



#30

Chloroform

Concen: 0.200 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX015289.D

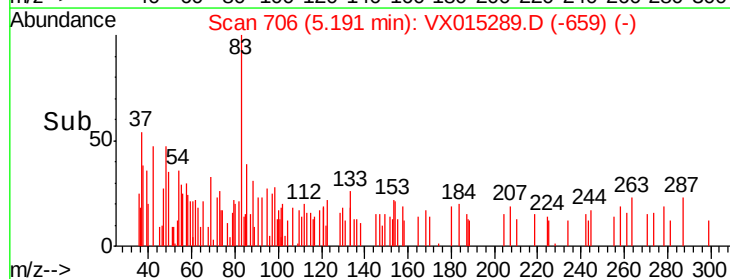
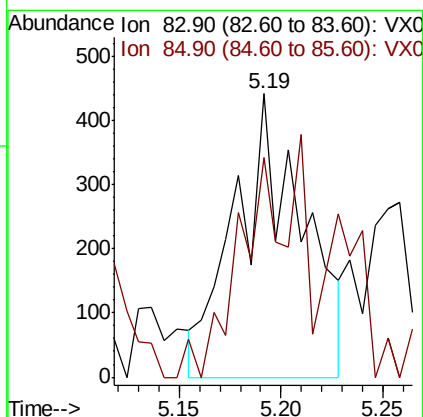
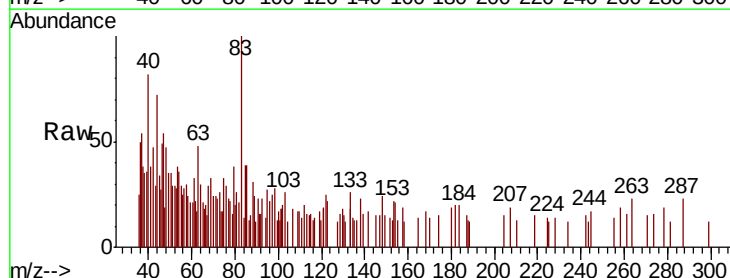
Acq: 16 Mar 2020 13:19

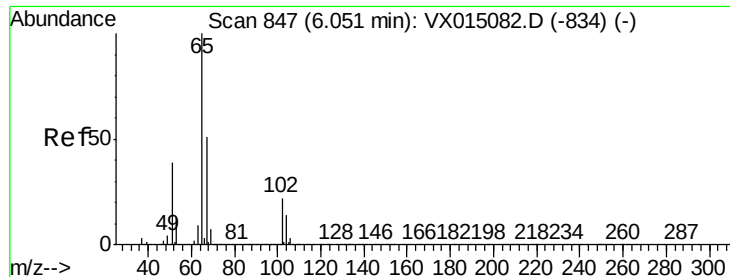
Tgt Ion: 83 Resp: 999

Ion Ratio Lower Upper

83 100

85 76.8 52.0 78.0

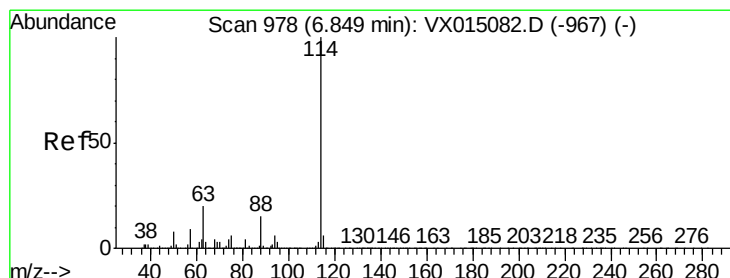
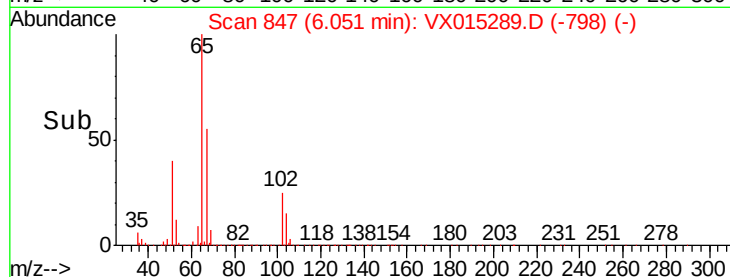
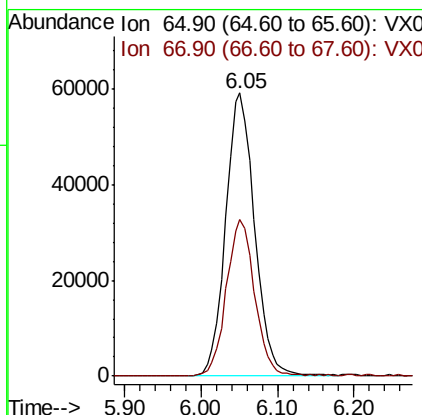
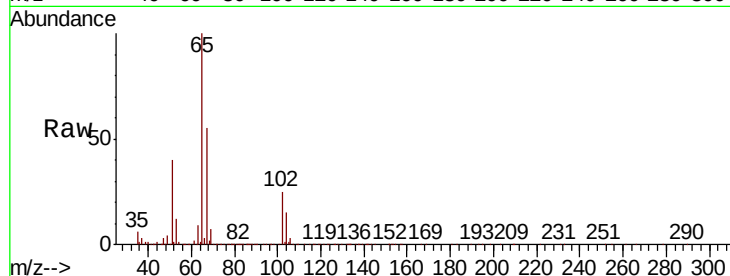




#33
 1,2-Dichloroethane-d4
 Concen: 47.586 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX015289.D
 Acq: 16 Mar 2020 13:19

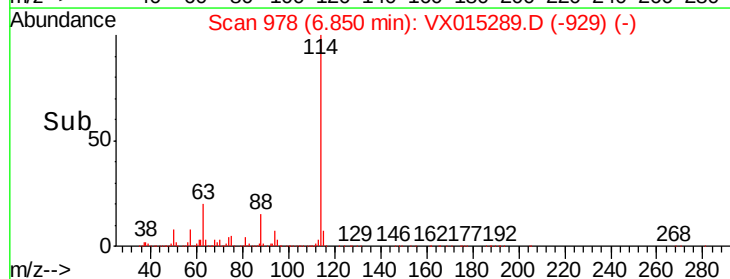
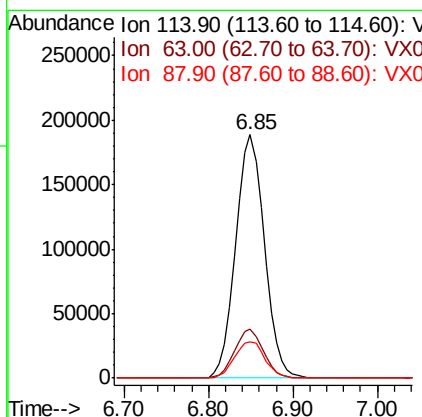
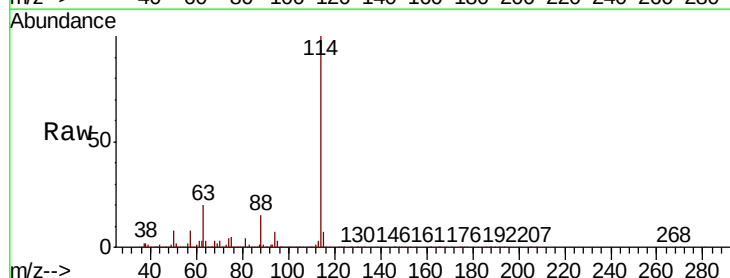
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20200309DL

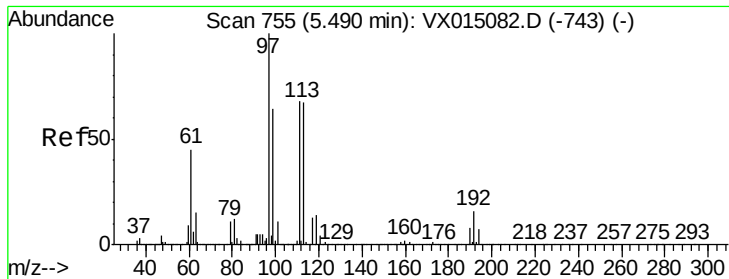
Tot Ion: 65 Resp: 154203
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015289.D
 Acq: 16 Mar 2020 13:19

Tgt Ion: 114 Resp: 435102
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.053 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

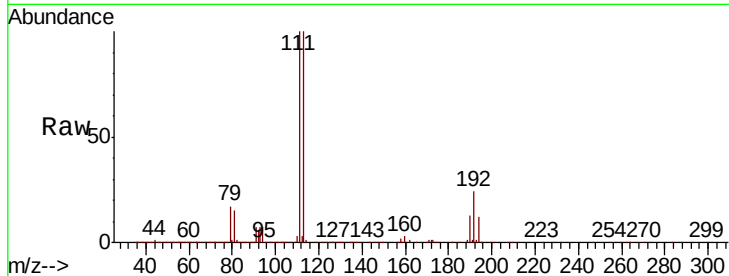
Tot Ion:113 Resp: 131903

Ion Ratio Lower Upper

113 100

111 102.0 82.6 123.8

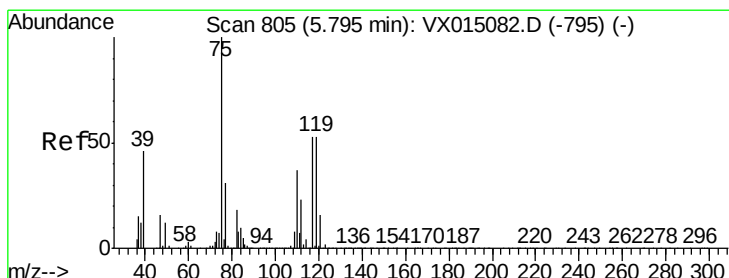
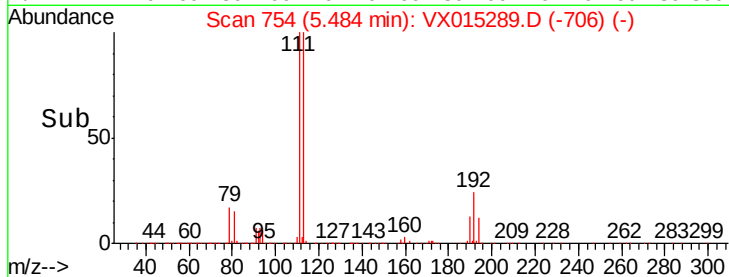
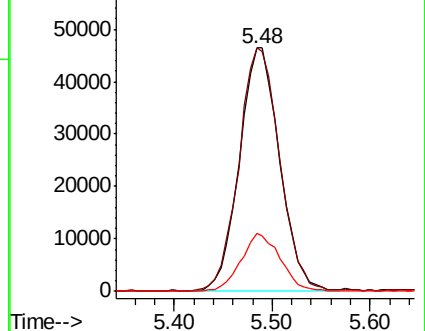
192 23.6 18.6 28.0



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



#36

1,1-Dichloropropene

Concen: 4.594 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

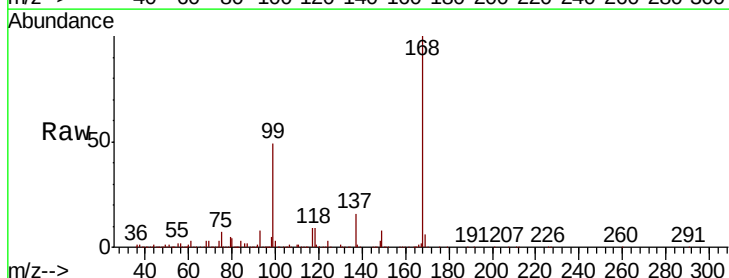
Tgt Ion: 75 Resp: 18477

Ion Ratio Lower Upper

75 100

110 11.4 17.9 53.8#

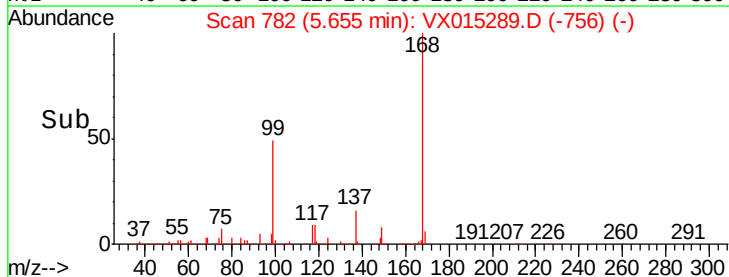
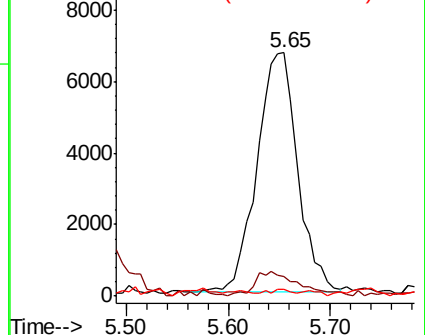
77 1.5 24.8 37.2#

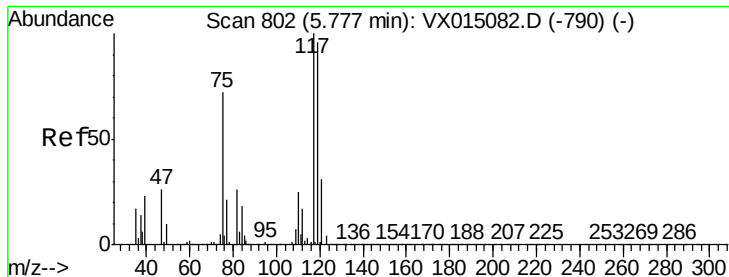


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.521 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

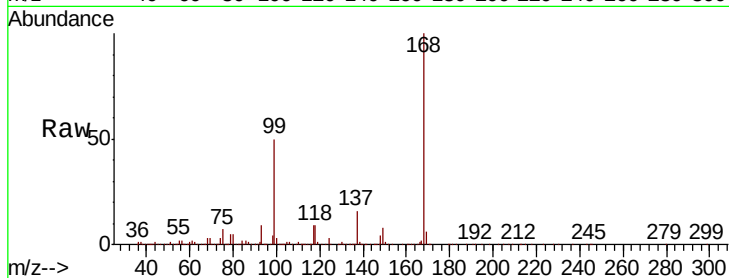
Tot Ion:117 Resp: 24758

Ion Ratio Lower Upper

117 100

119 6.2 76.9 115.3#

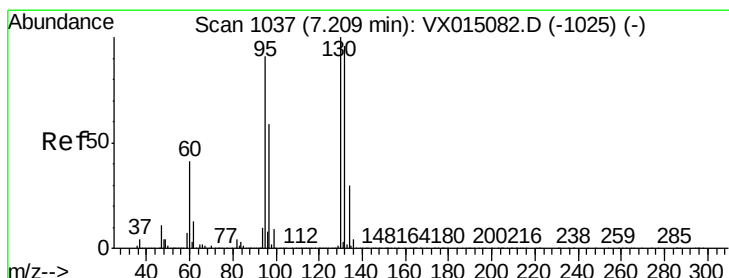
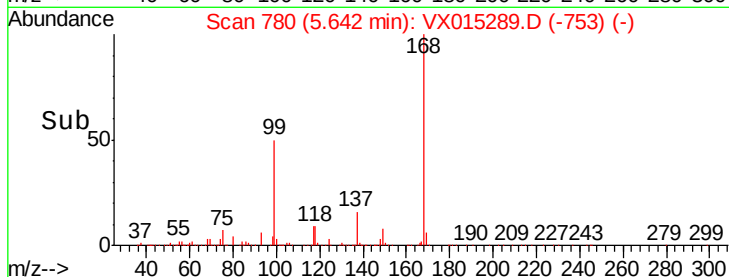
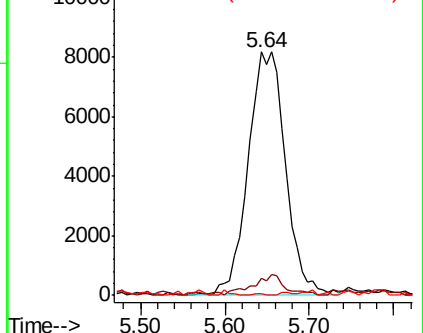
121 0.8 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 90.969 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX015289.D

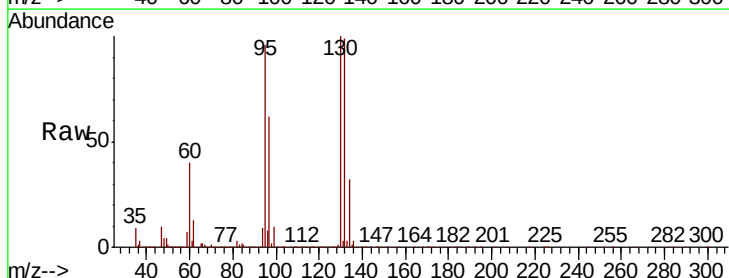
Acq: 16 Mar 2020 13:19

Tgt Ion:130 Resp: 302331

Ion Ratio Lower Upper

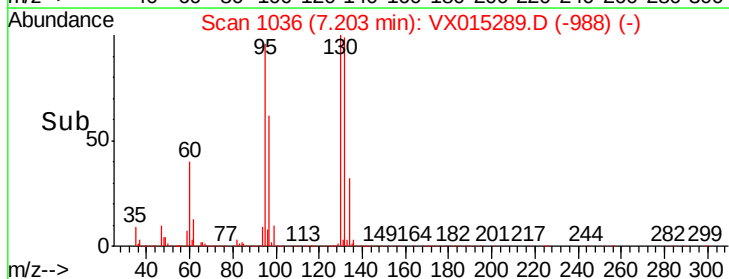
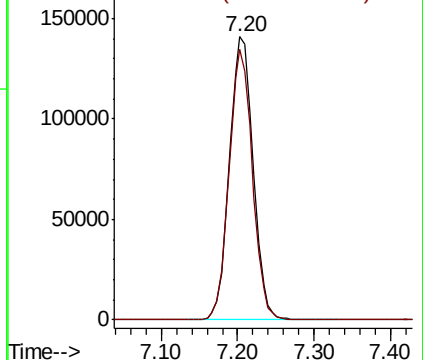
130 100

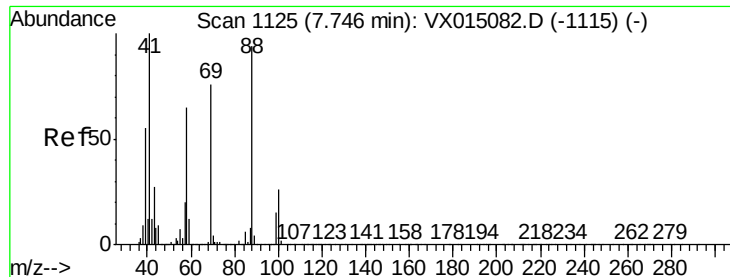
95 95.5 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.997 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

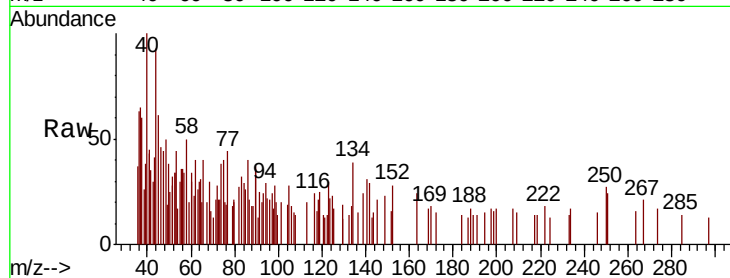
Tot Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 666.7 27.0 40.4#

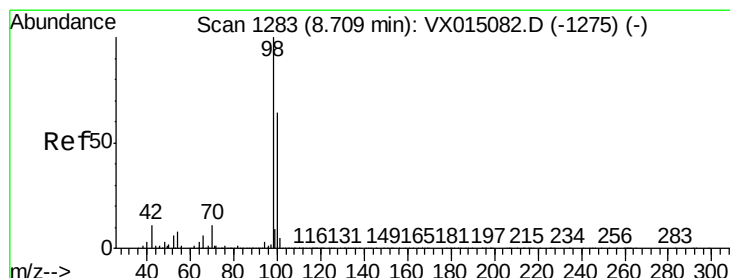
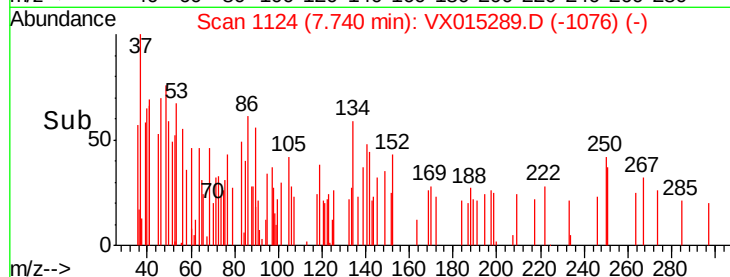
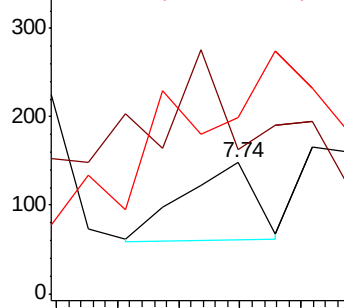
58 552.8 55.6 83.4#



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



#50

Toluene-d8

Concen: 51.232 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015289.D

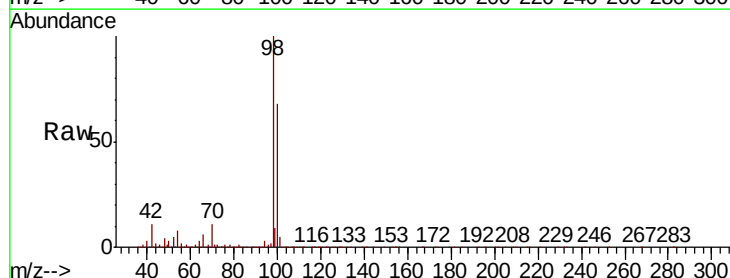
Acq: 16 Mar 2020 13:19

Tgt Ion: 98 Resp: 534924

Ion Ratio Lower Upper

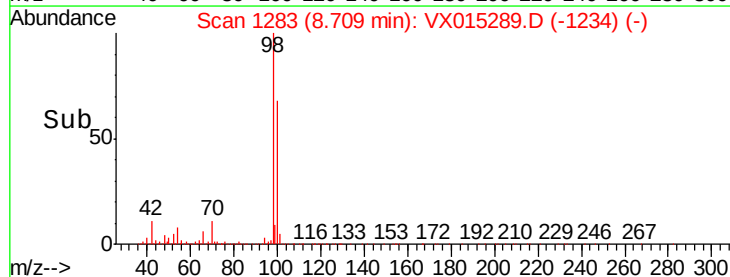
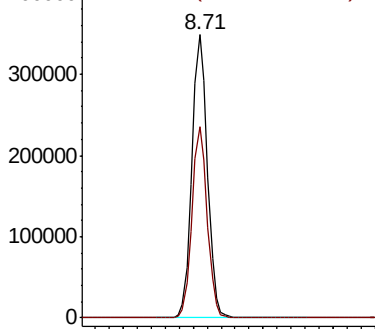
98 100

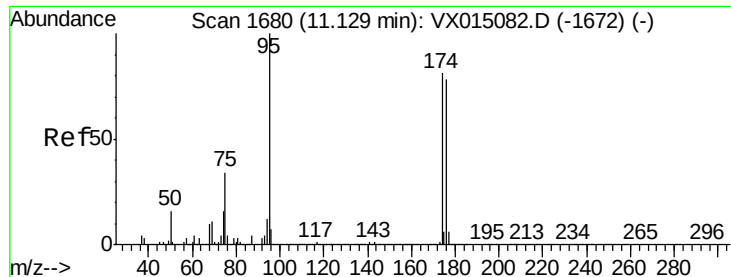
100 66.5 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 55.674 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

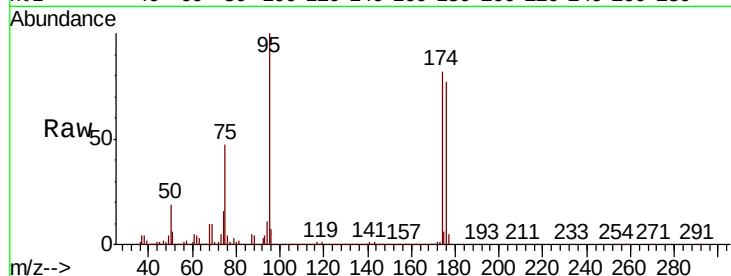
Tot Ion: 95 Resp: 207347

Ion Ratio Lower Upper

95 100

174 90.3 0.0 177.6

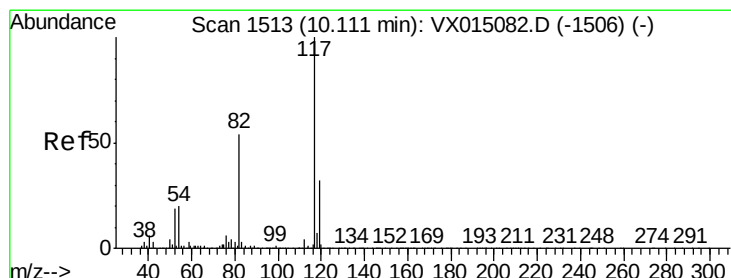
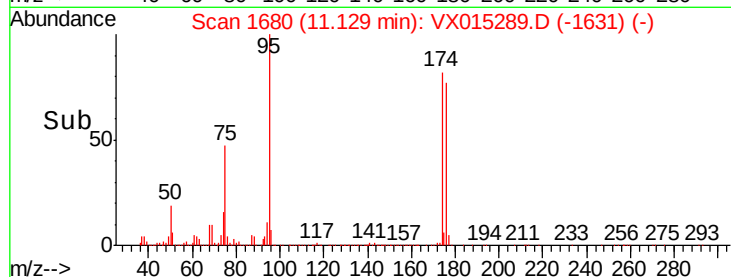
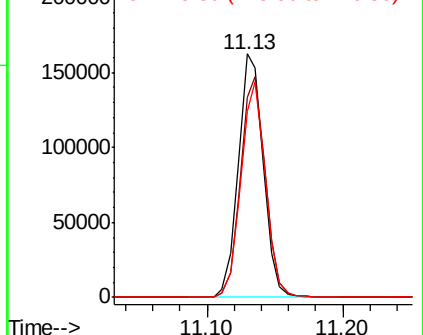
176 86.9 0.0 170.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

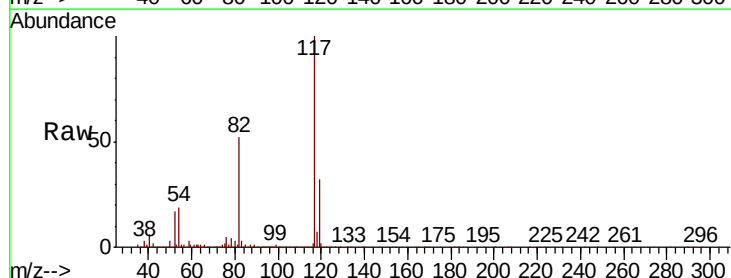
Tgt Ion: 117 Resp: 431038

Ion Ratio Lower Upper

117 100

82 52.4 43.3 64.9

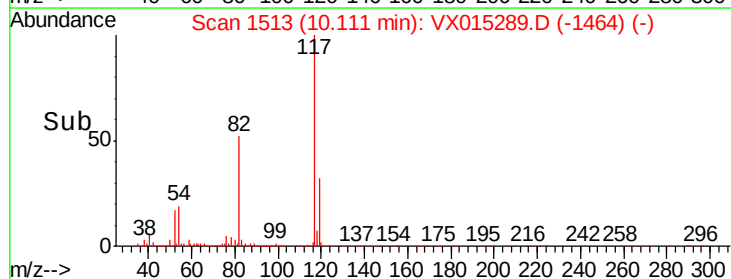
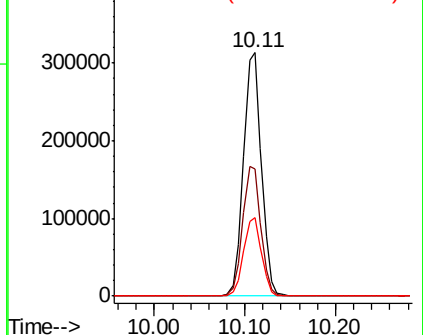
119 32.1 25.8 38.8

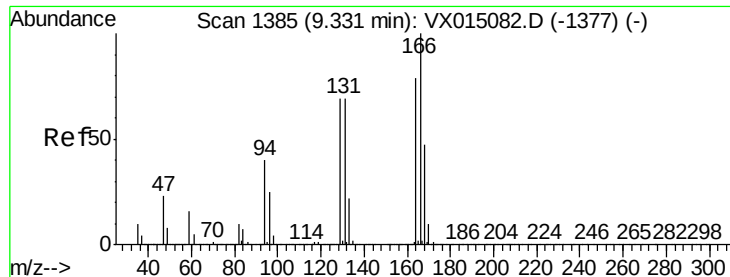


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#64

Tetrachloroethene

Concen: 0.528 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

Tot Ion:164 Resp: 1881

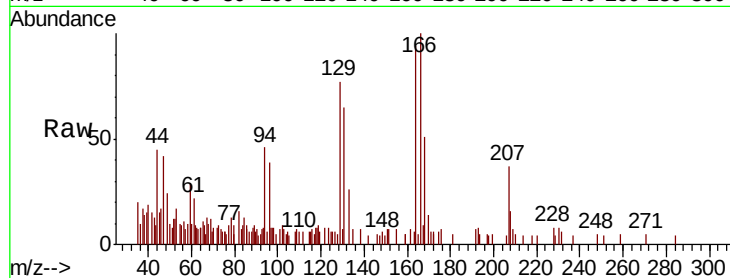
Ion Ratio Lower Upper

164 100

166 105.8 101.1 151.7

129 77.4 69.4 104.0

131 63.0 69.8 104.8#



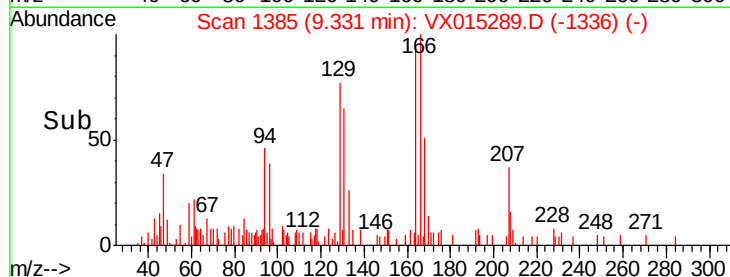
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

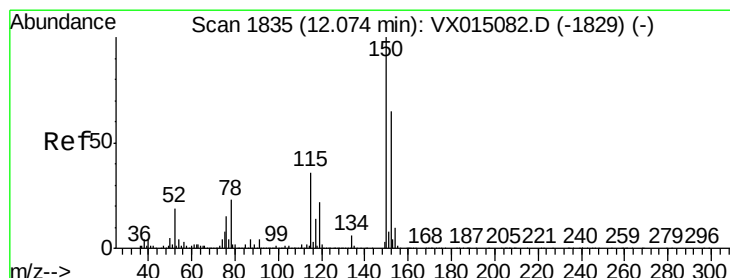
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

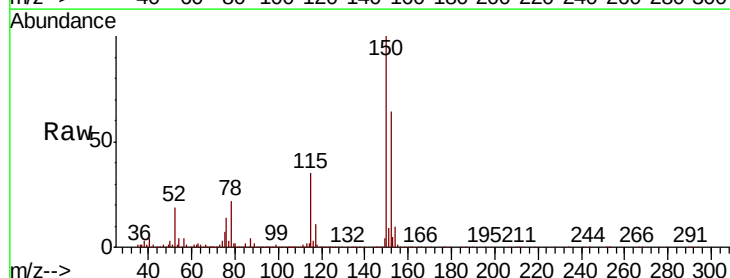
Tgt Ion:152 Resp: 229117

Ion Ratio Lower Upper

152 100

115 56.5 38.2 114.6

150 157.7 0.0 343.8

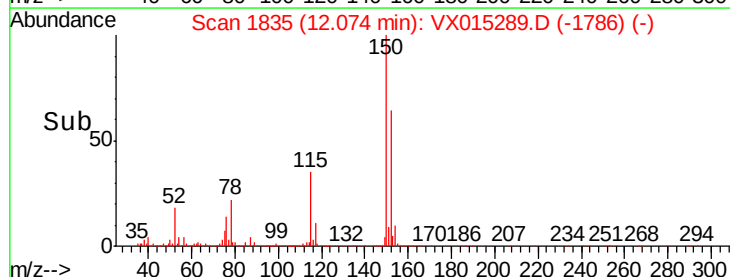


Abundance Ion 151.90 (151.60 to 152.60): V

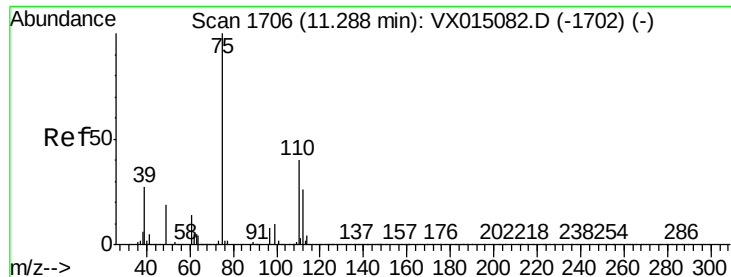
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->



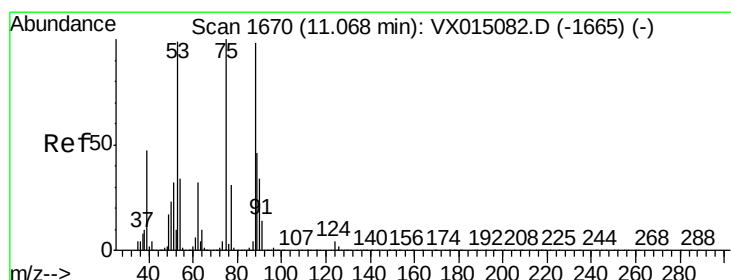
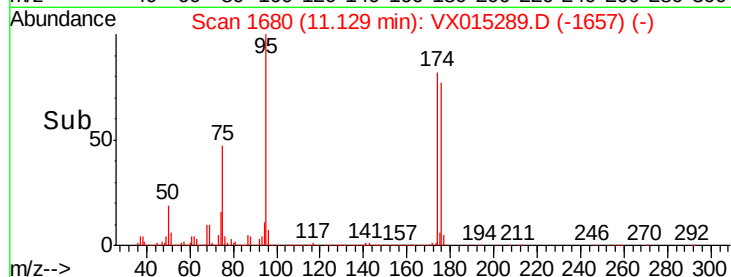
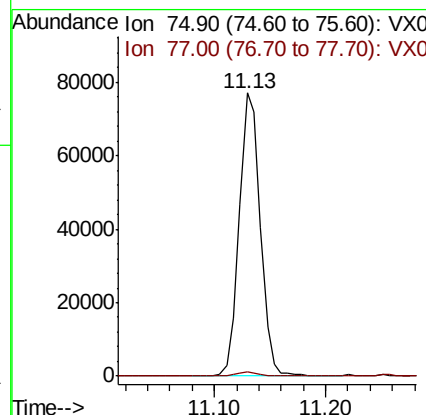
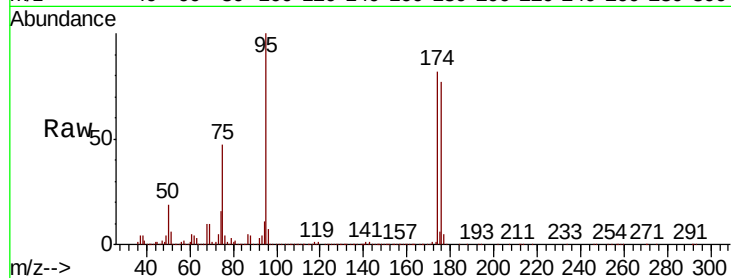
Time-->



#76
 1,2,3-Trichloropropane
 Concen: 22.002 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015289.D
 Acq: 16 Mar 2020 13:19

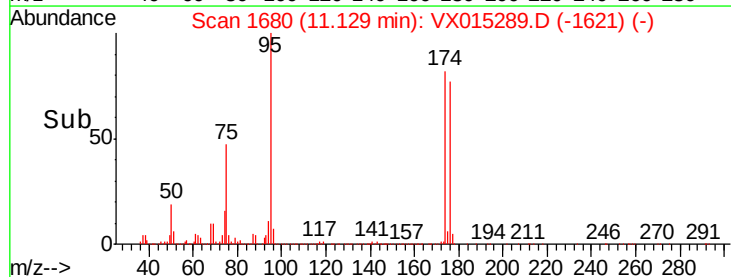
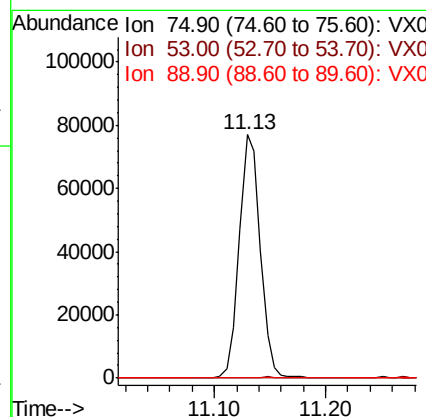
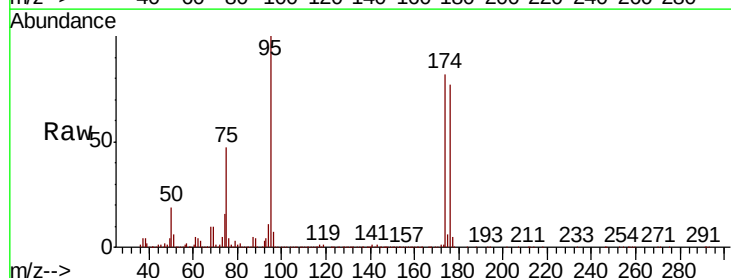
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20200309DL

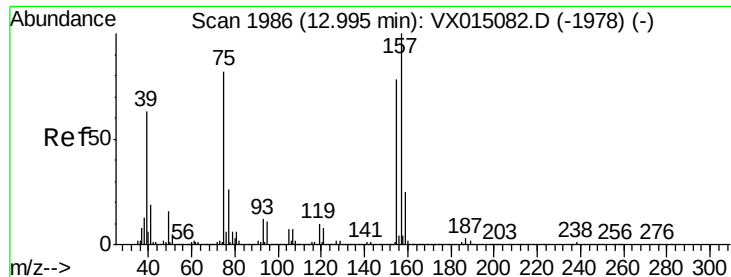
Tot Ion: 75 Resp: 100555
 Ion Ratio Lower Upper
 75 100
 77 1.7 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.443 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX015289.D
 Acq: 16 Mar 2020 13:19

Tgt Ion: 75 Resp: 100555
 Ion Ratio Lower Upper
 75 100
 53 0.3 77.9 116.9#
 89 0.1 36.2 54.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.269 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20200309DL

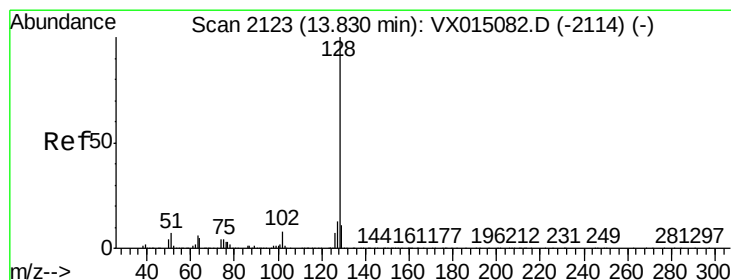
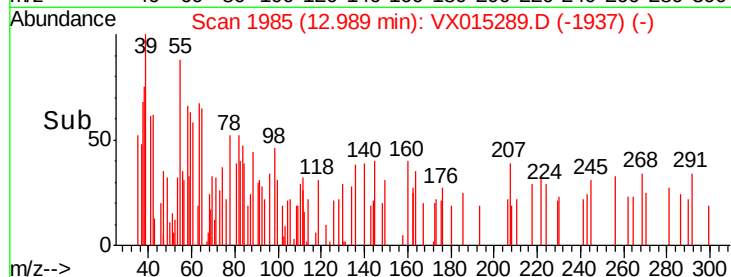
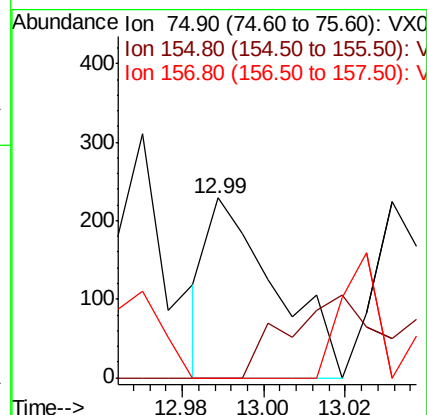
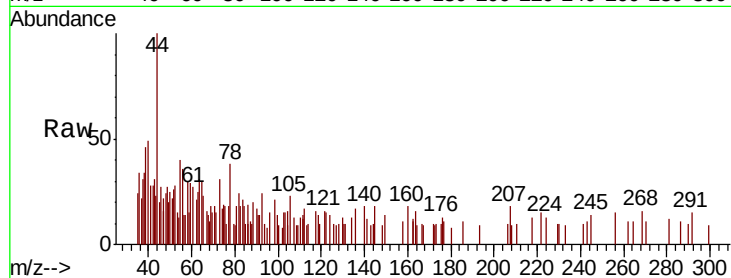
Tot Ion: 75 Resp: 263

Ion Ratio Lower Upper

75 100

155 0.0 46.6 139.7#

157 0.0 59.2 177.5#



#95

Naphthalene

Concen: 1.476 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015289.D

Acq: 16 Mar 2020 13:19

Tgt Ion: 128 Resp: 877

Ion Ratio Lower Upper

128 100

127 14.6 10.3 15.5

129 18.9 8.6 13.0#

