

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031020\
 Data File : VX015181.D
 Acq On : 10 Mar 2020 19:05
 Operator : JC/SP
 Sample : L1842-28
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 11 07:32:44 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	322508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	536857	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	524175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	267912	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	206272	53.91	ug/l	0.00
Spiked Amount			Recovery	=	107.82%	
35) Dibromofluoromethane	5.49	113	171572	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
50) Toluene-d8	8.71	98	658531	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.14	95	243484	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	

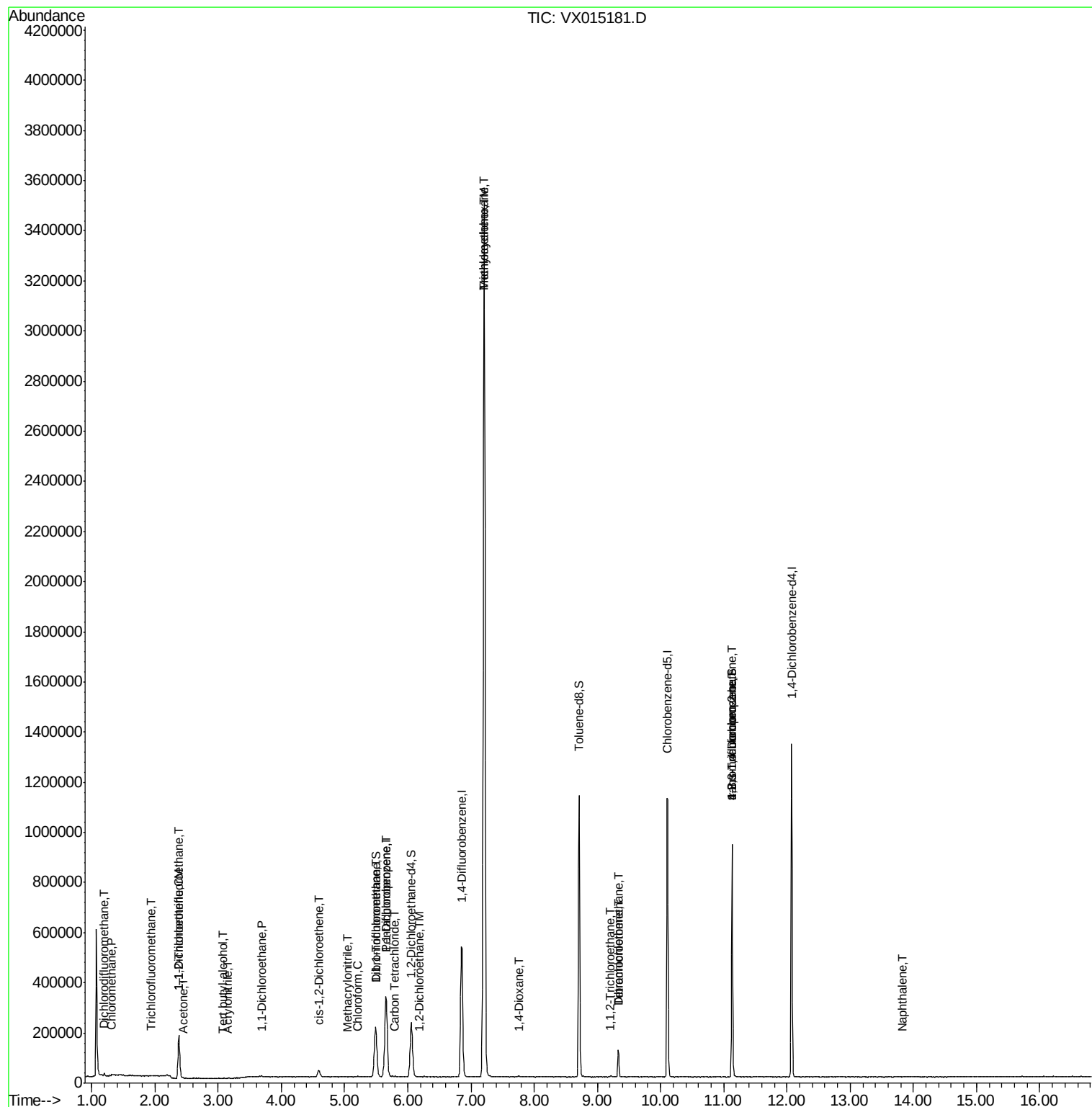
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1877	0.665	ug/l	94
3) Chloromethane	1.31	50	918	0.229	ug/l #	81
7) Trichlorofluoromethane	1.93	101	1793	0.371	ug/l #	80
9) 1,1,2-Trichlorotrifluoroet	2.38	101	58038	19.112	ug/l	99
11) Tert butyl alcohol	3.07	59	369	0.556	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	16889	5.389	ug/l	98
15) Acrylonitrile	3.15	53	755	0.457	ug/l #	58
16) Acetone	2.44	43	2908	1.877	ug/l	91
24) 1,1-Dichloroethane	3.70	63	5363	0.888	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	17314	4.612	ug/l	94
30) Chloroform	5.20	83	3631	0.617	ug/l	86
32) 1,1,1-Trichloroethane	5.48	97	2041	0.418	ug/l #	47
36) 1,1-Dichloropropene	5.65	75	24253	4.887	ug/l #	50
38) Carbon Tetrachloride	5.79	117	2869	0.612	ug/l #	73
39) Methylcyclohexane	7.20	83	15149	2.614	ug/l #	1
41) Methacrylonitrile	5.04	41	930	0.336	ug/l #	45
42) 1,2-Dichloroethane	6.19	62	2147	0.425	ug/l	92
44) Trichloroethene	7.21	130	1346540	328.368	ug/l	97
49) 1,4-Dioxane	7.76	88	3027	33.964	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	1951	0.526	ug/l	92
60) Dibromochloromethane	9.33	129	19537	5.019	ug/l #	12
64) Tetrachloroethene	9.33	164	21498	4.960	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	121046	22.651	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	121046	64.283	ug/l #	11
95) Naphthalene	13.83	128	340	1.438	ug/l #	20

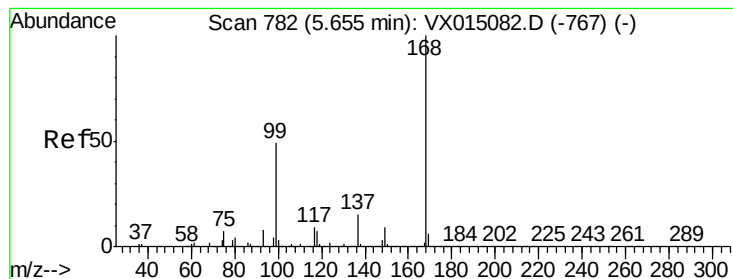
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
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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: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

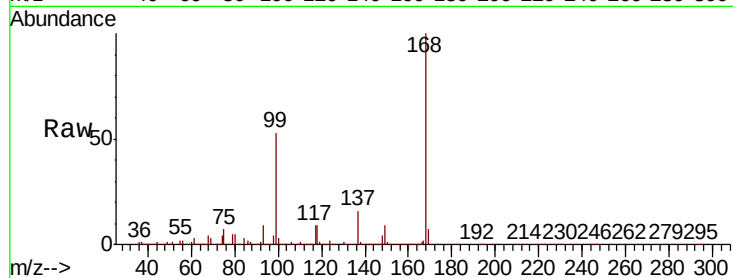
ClientSampleId :

Tot Ion:168 Resp: 322508

Ion Ratio Lower Upper

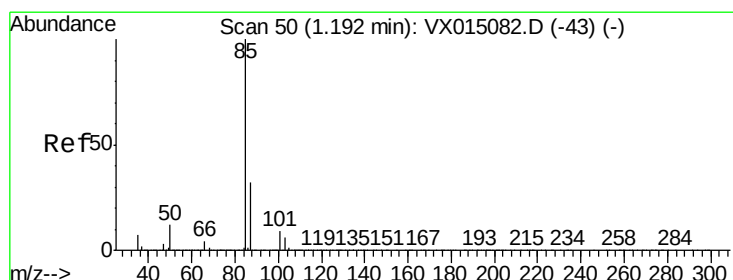
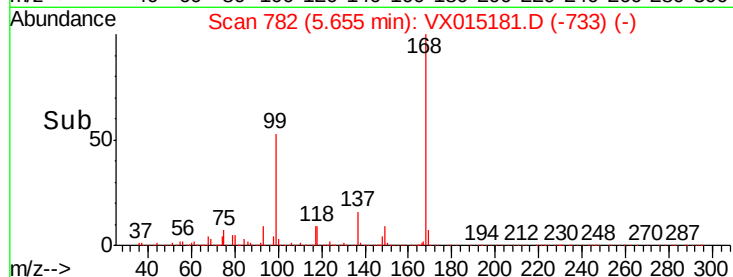
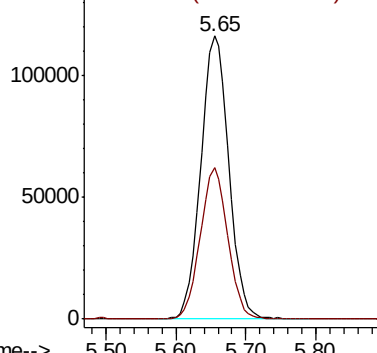
168 100

99 53.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.665 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015181.D

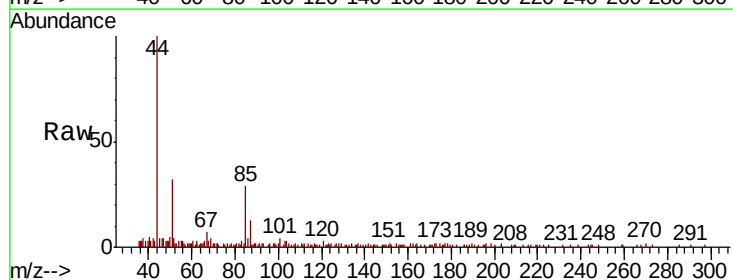
Acq: 10 Mar 2020 19:05

Tgt Ion: 85 Resp: 1877

Ion Ratio Lower Upper

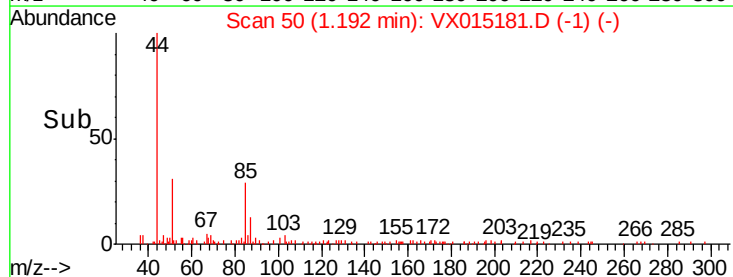
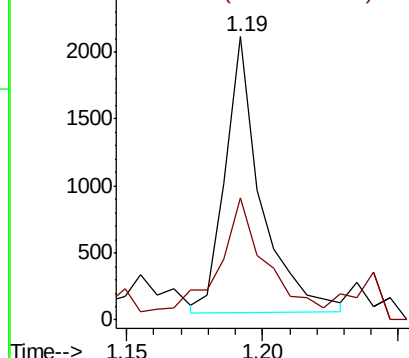
85 100

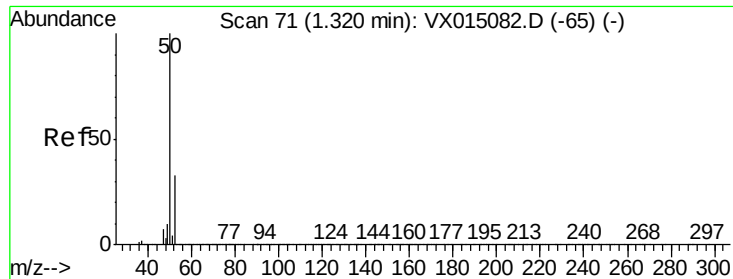
87 35.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.229 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

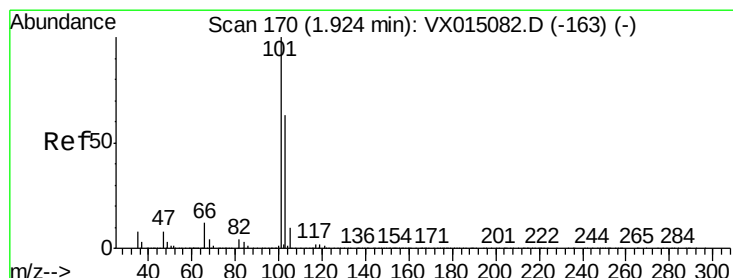
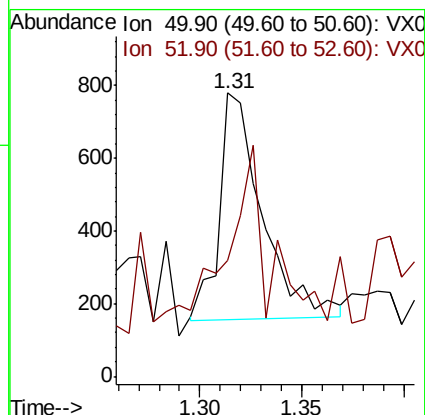
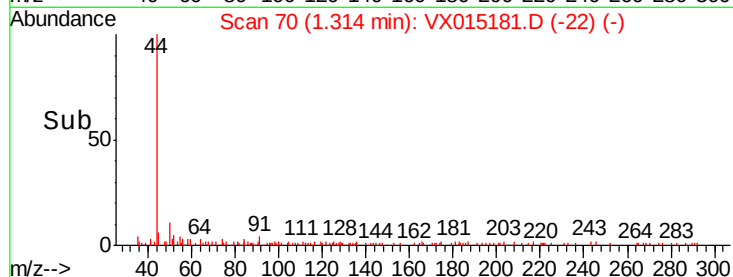
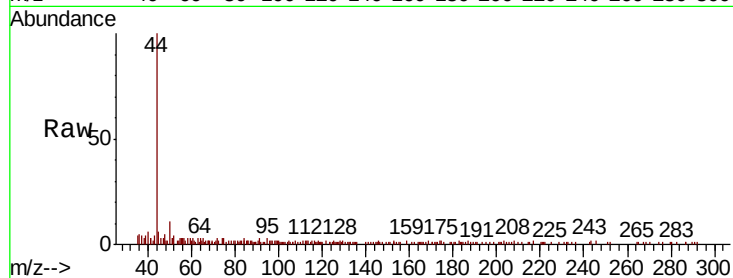
ClientSampleId :

Tot Ion: 50 Resp: 918

Ion Ratio Lower Upper

50 100

52 21.9 26.2 39.2#



#7

Trichlorofluoromethane

Concen: 0.371 ug/l

RT: 1.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX015181.D

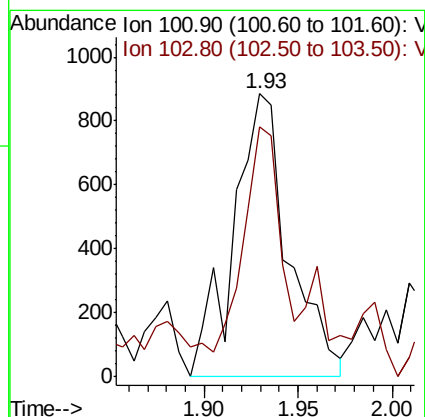
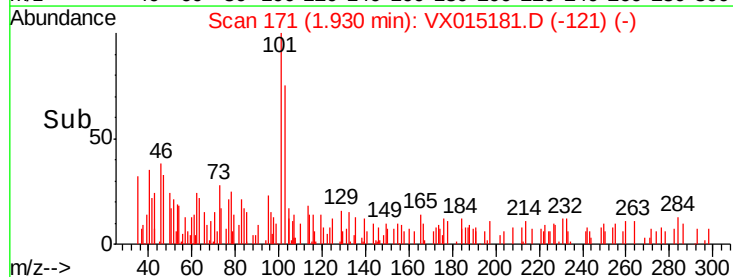
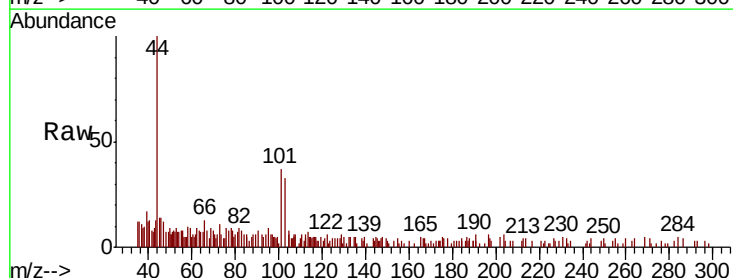
Acq: 10 Mar 2020 19:05

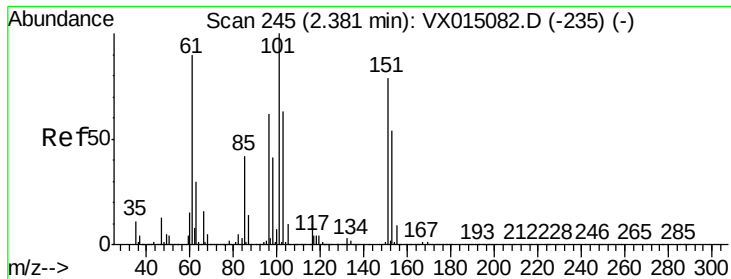
Tgt Ion: 101 Resp: 1793

Ion Ratio Lower Upper

101 100

103 78.4 50.4 75.6#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.112 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015181.D

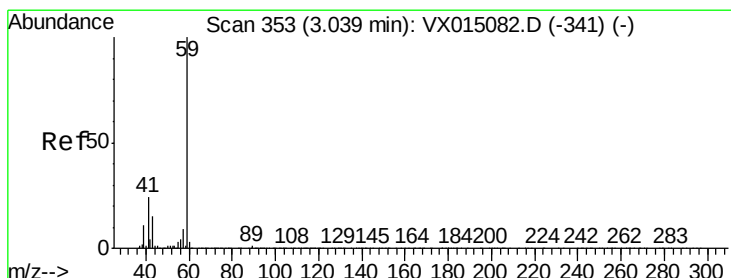
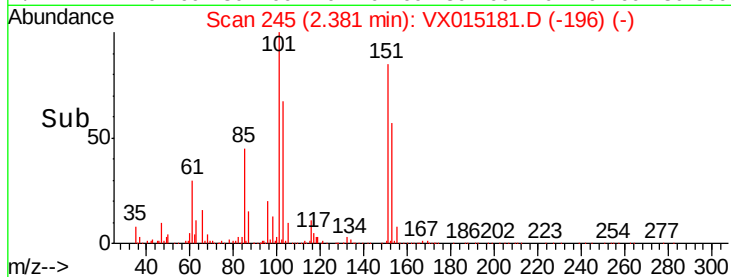
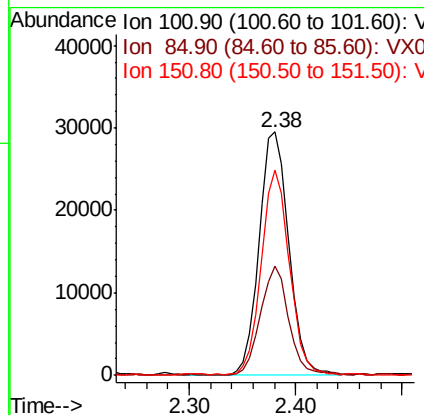
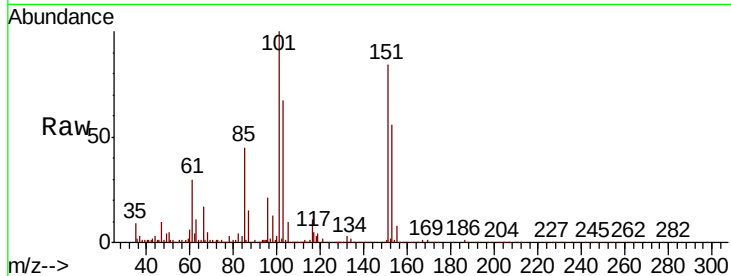
Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	101	Resp:	58038
Ion	Ratio	Lower	Upper
101	100		
85	43.3	33.7	50.5
151	79.1	64.0	96.0



#11

Tert butyl alcohol

Concen: 0.556 ug/l

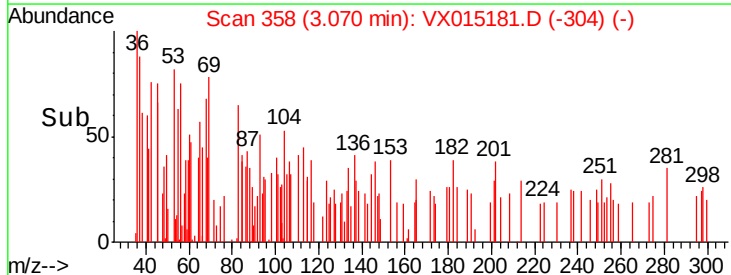
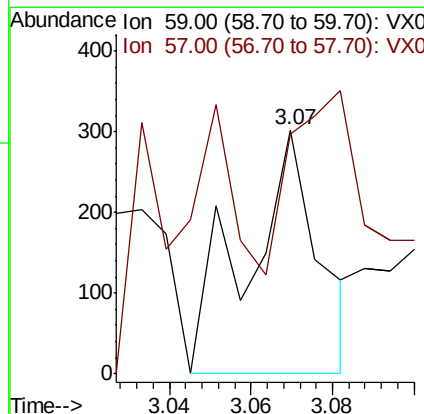
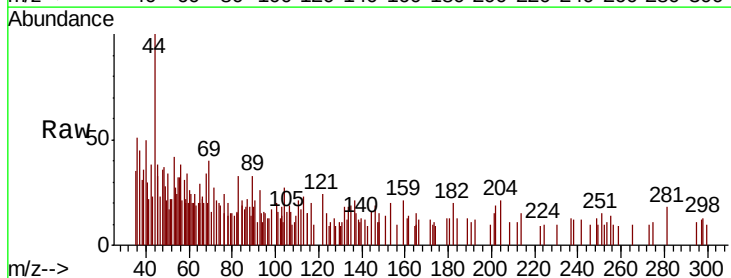
RT: 3.07 min Scan# 358

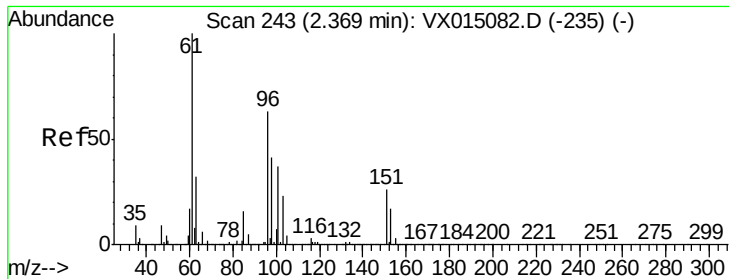
Delta R.T. 0.03 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Tgt Ion:	59	Resp:	369
Ion	Ratio	Lower	Upper
59	100		
57	106.0	8.2	12.4#





#12

1,1-Dichloroethene

Concen: 5.389 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.00 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

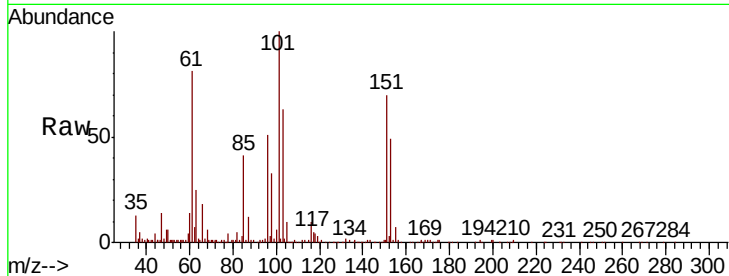
Tot Ion: 96 Resp: 16889

Ion Ratio Lower Upper

96 100

61 155.1 126.2 189.4

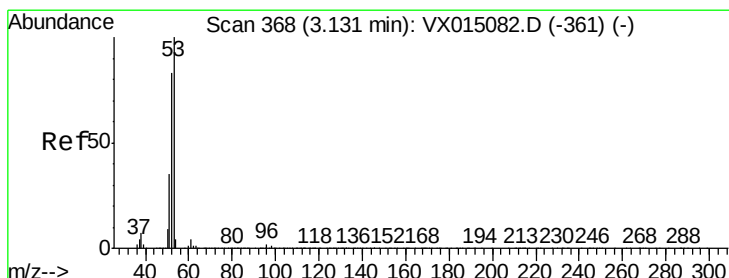
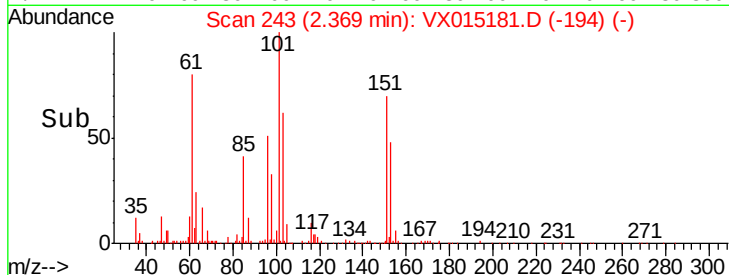
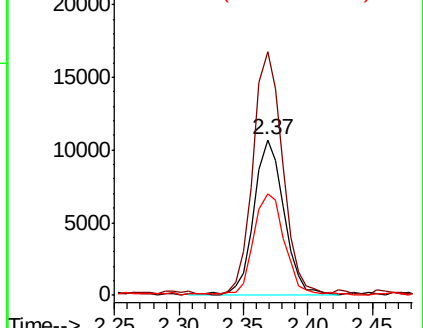
98 64.5 51.4 77.0



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



#15

Acrylonitrile

Concen: 0.457 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

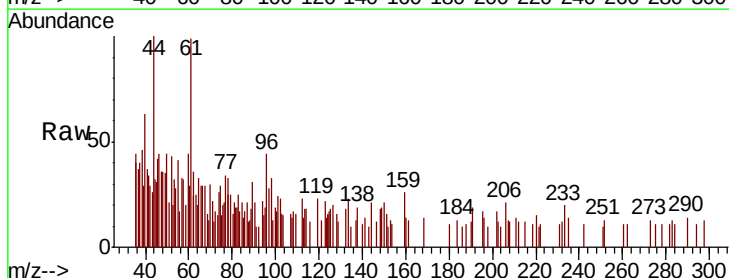
Tgt Ion: 53 Resp: 755

Ion Ratio Lower Upper

53 100

52 33.1 66.6 100.0#

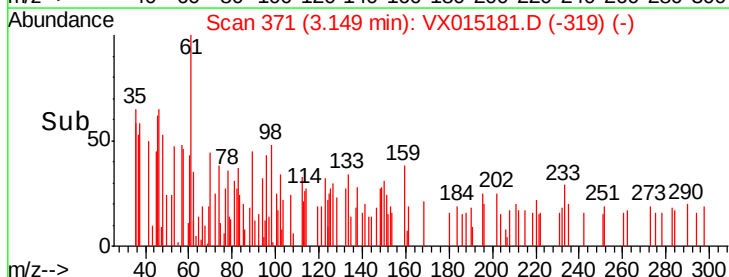
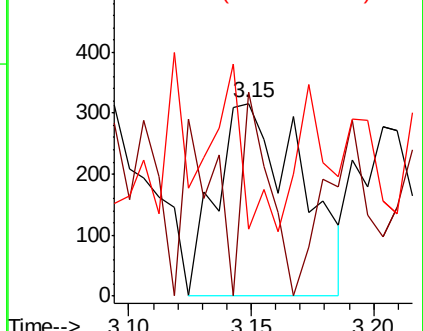
51 29.7 29.0 43.6

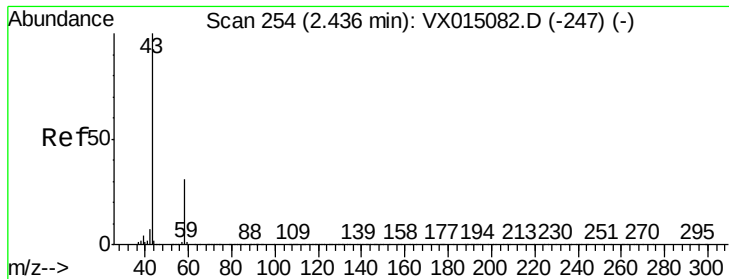


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.877 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

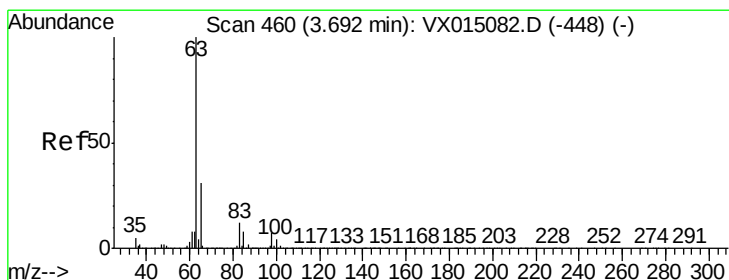
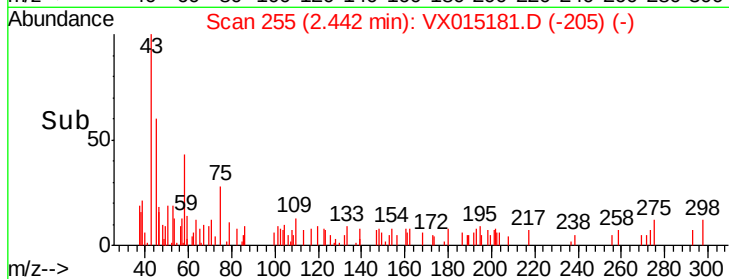
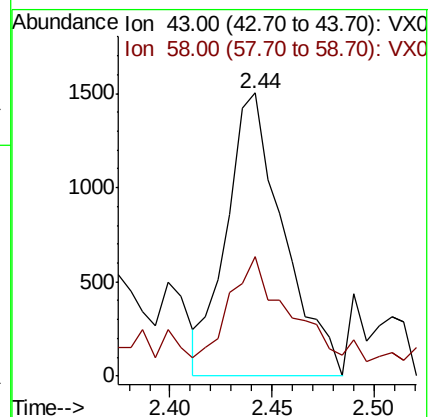
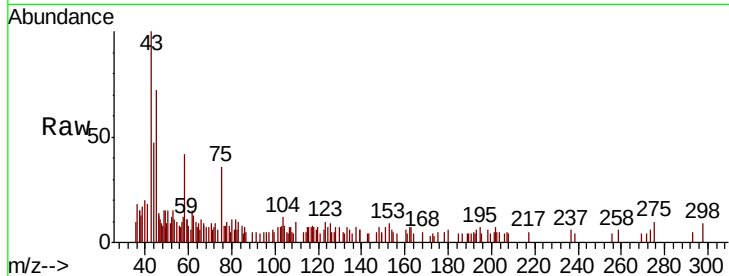
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 2908

Ion Ratio Lower Upper

43 100

58 35.8 24.8 37.2



#24

1,1-Dichloroethane

Concen: 0.888 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

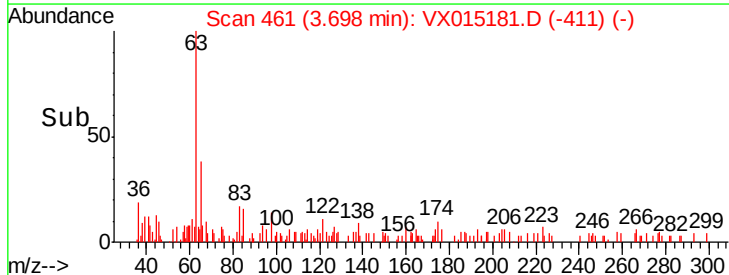
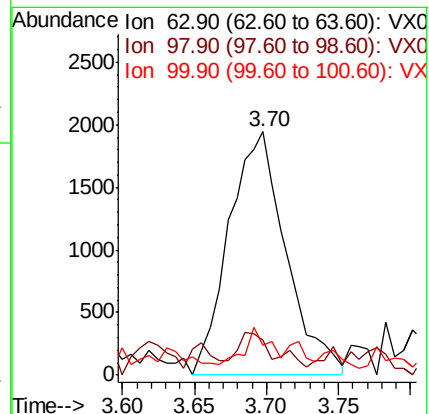
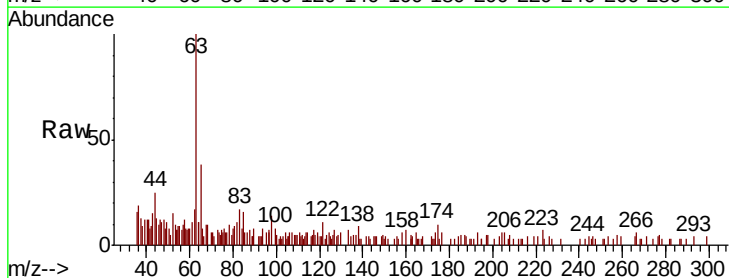
Tgt Ion: 63 Resp: 5363

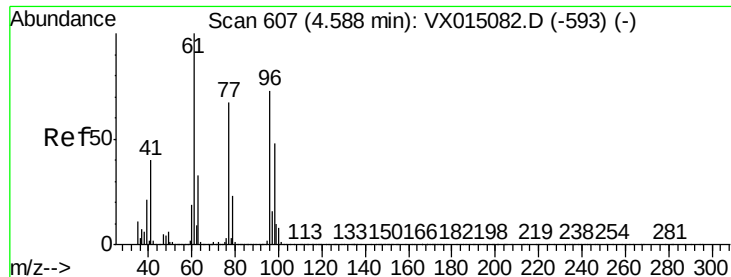
Ion Ratio Lower Upper

63 100

98 10.6 3.7 11.1

100 6.3 2.1 6.5



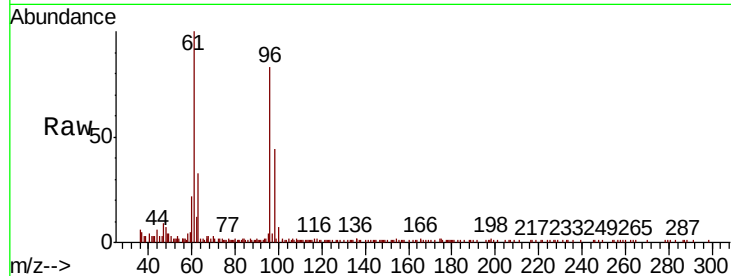


#27

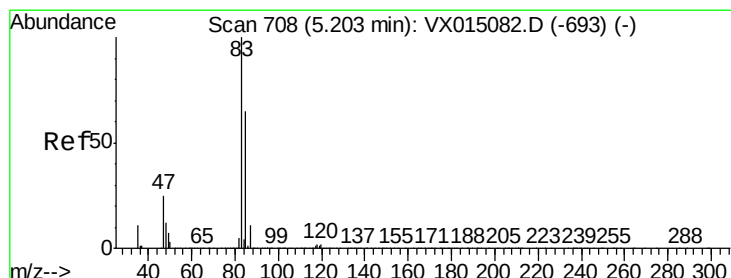
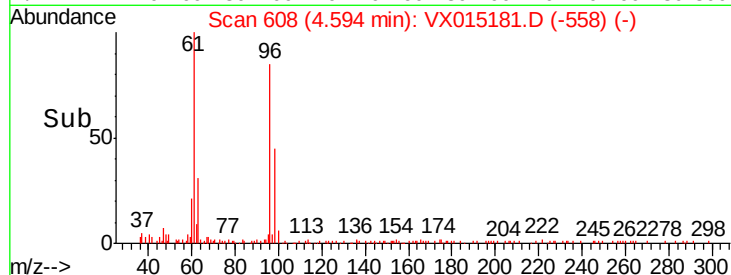
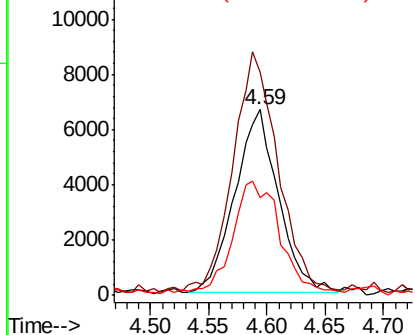
cis-1,2-Dichloroethene
 Concen: 4.612 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 96 Resp: 17314
 Ion Ratio Lower Upper
 96 100
 61 136.1 0.0 286.8
 98 67.9 0.0 128.4



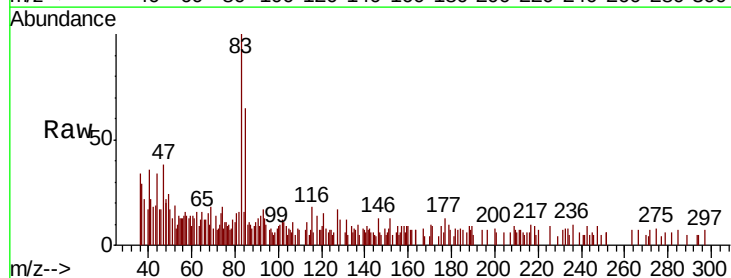
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



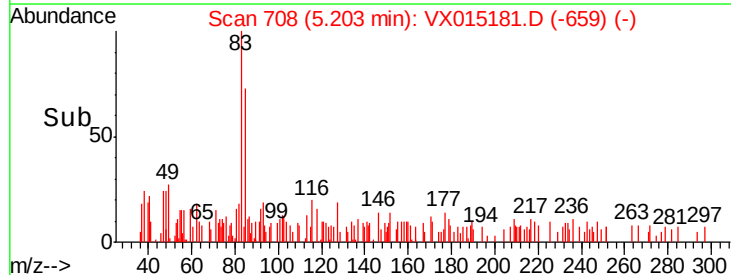
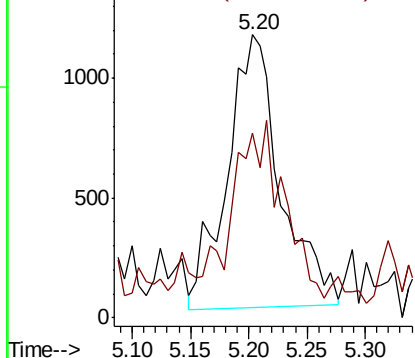
#30

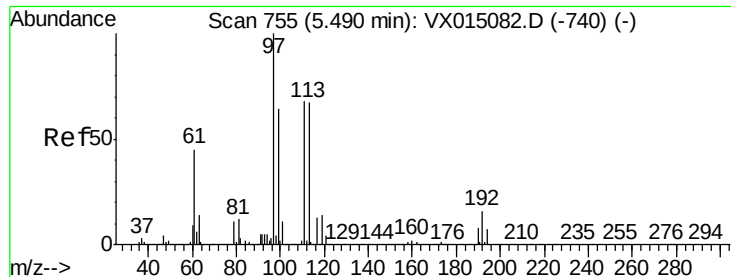
Chloroform
 Concen: 0.617 ug/l
 RT: 5.20 min Scan# 708
 Delta R.T. -0.00 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

Tgt Ion: 83 Resp: 3631
 Ion Ratio Lower Upper
 83 100
 85 54.1 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0





#32

1,1,1-Trichloroethane

Concen: 0.418 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

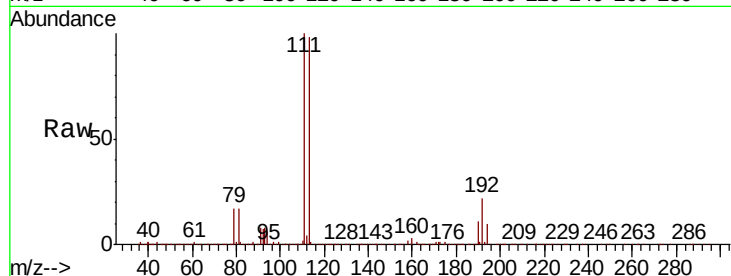
Tot Ion: 97 Resp: 2041

Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

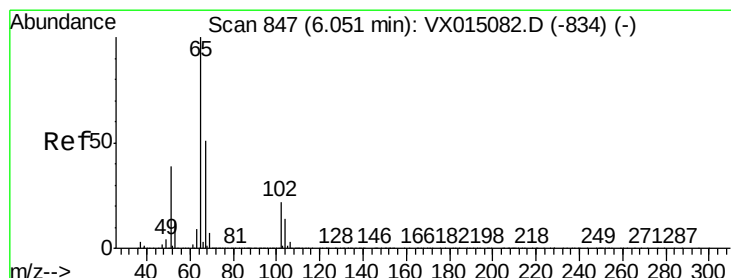
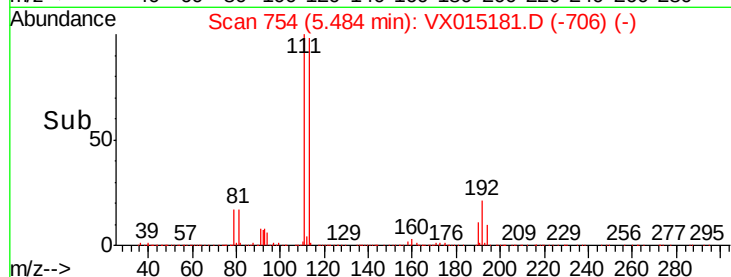
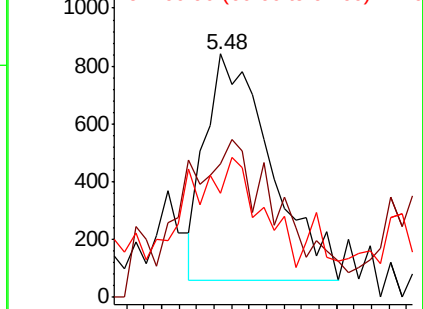
61 51.3 36.6 54.8



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.911 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015181.D

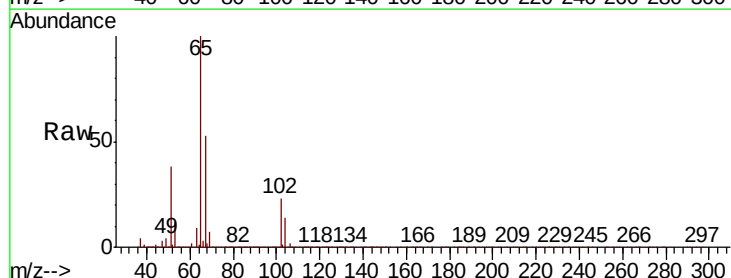
Acq: 10 Mar 2020 19:05

Tgt Ion: 65 Resp: 206272

Ion Ratio Lower Upper

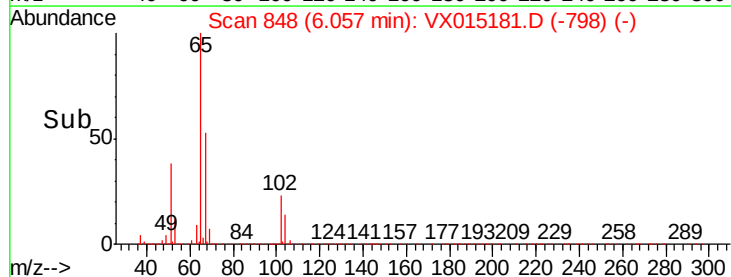
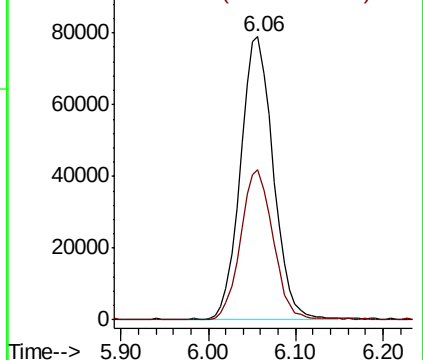
65 100

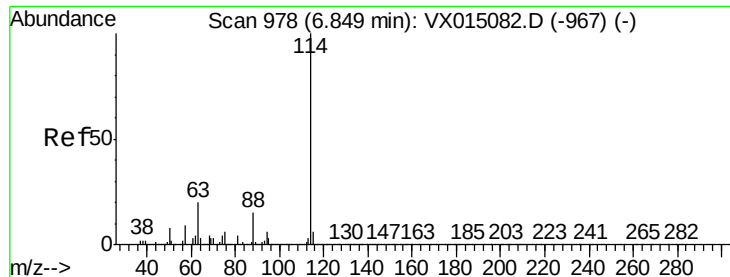
67 52.1 0.0 105.6



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: VX015181.D

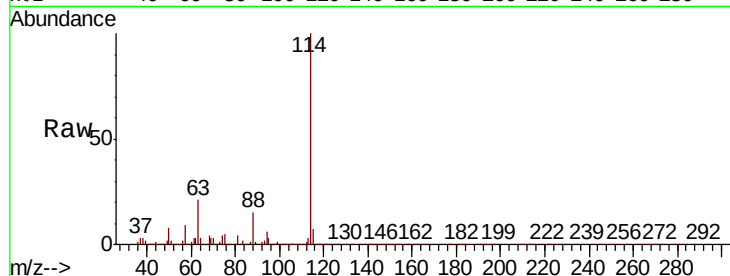
Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

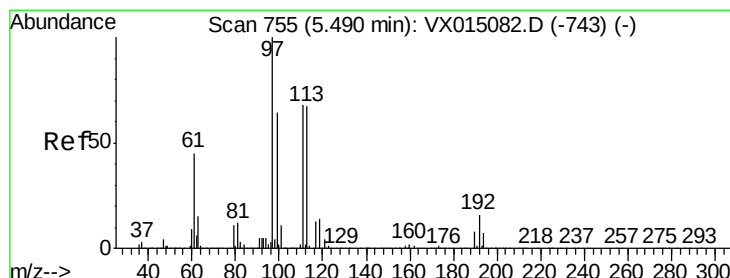
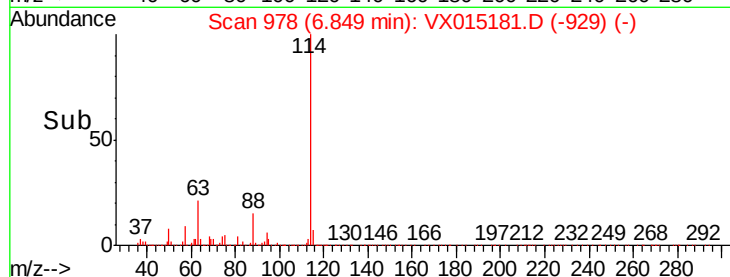
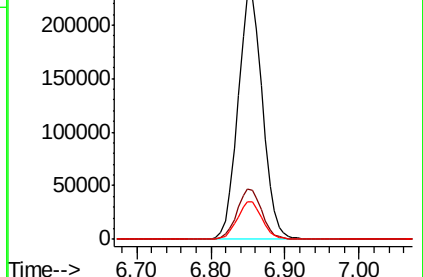
Tot Ion:	114	Resp:	536857
Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.0
88	15.2	0.0	30.6



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



#35

Dibromofluoromethane

Concen: 50.658 ug/l

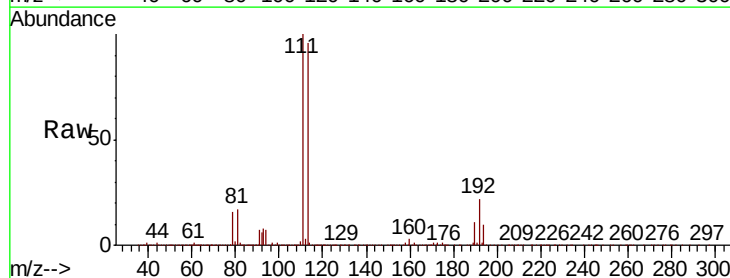
RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

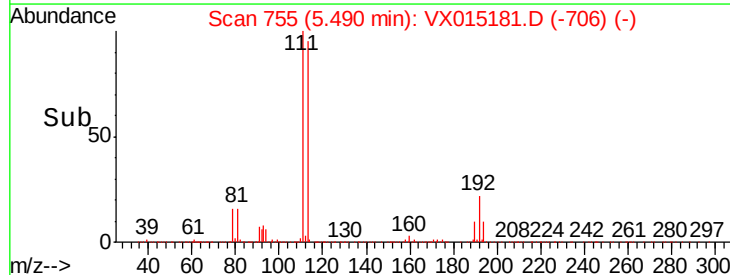
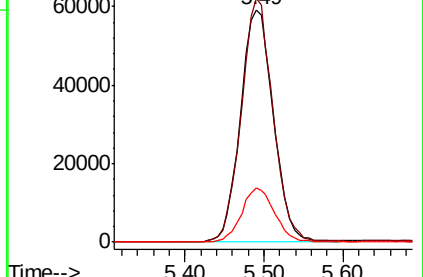
Tgt Ion:	113	Resp:	171572
Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.6	123.8
192	23.6	18.6	28.0

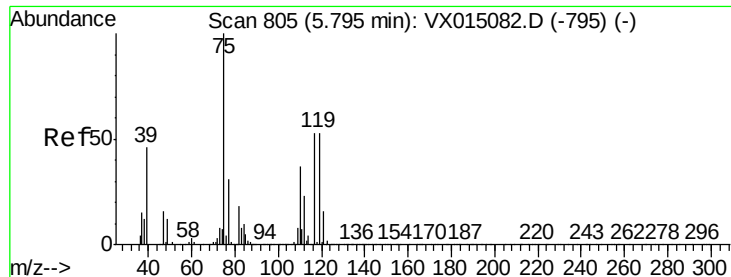


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

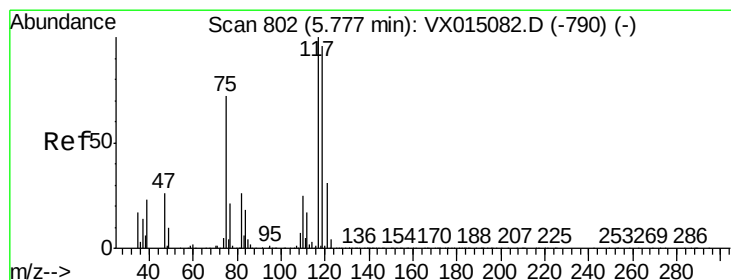
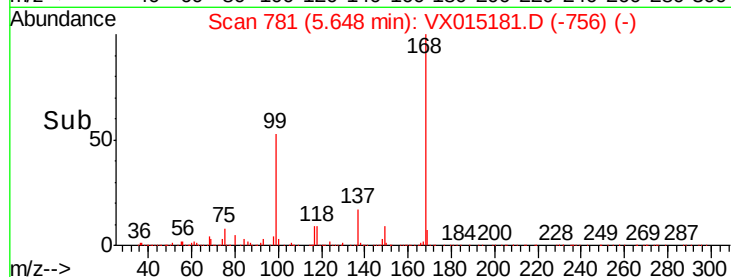
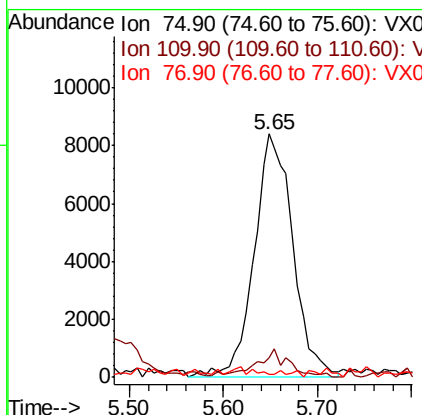
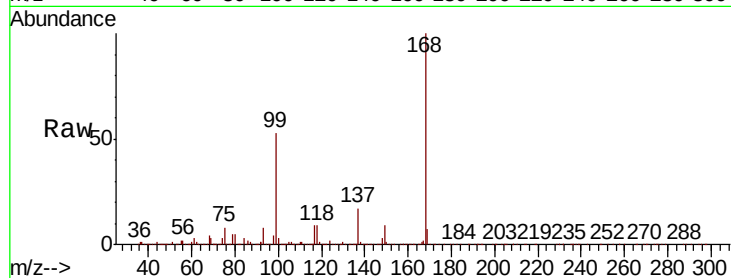




#36
 1,1-Dichloropropene
 Concen: 4.887 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

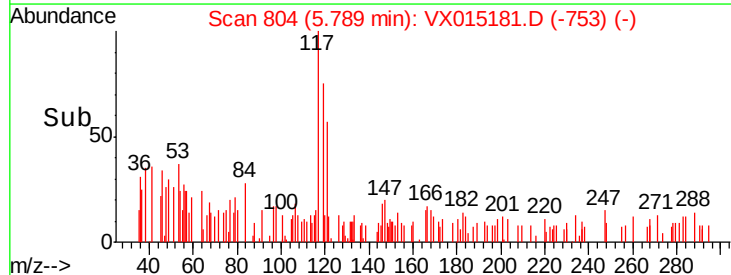
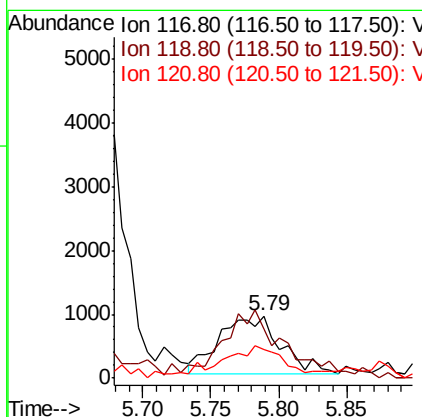
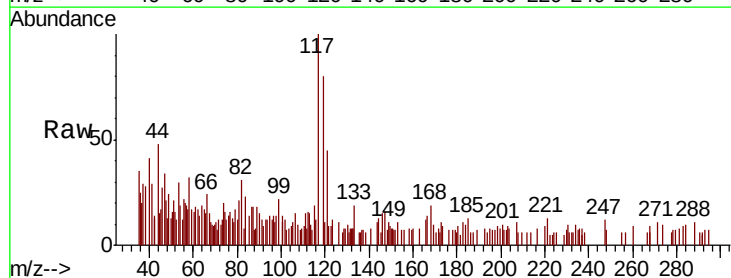
Instrument :
 MSVOA_X
 ClientSampled :

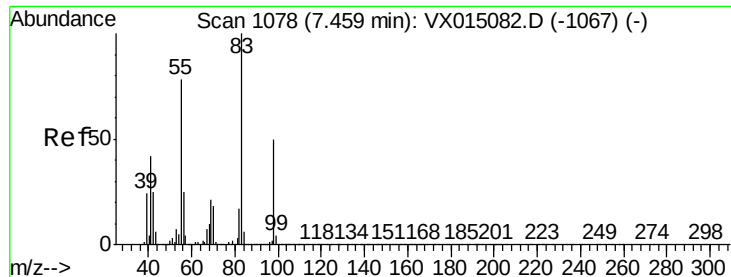
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.9	53.8#
77	0.3	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 0.612 ug/l
 RT: 5.79 min Scan# 804
 Delta R.T. 0.01 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	72.7	76.9	115.3#
121	50.5	24.6	37.0#





#39

Methylcyclohexane

Concen: 2.614 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.26 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

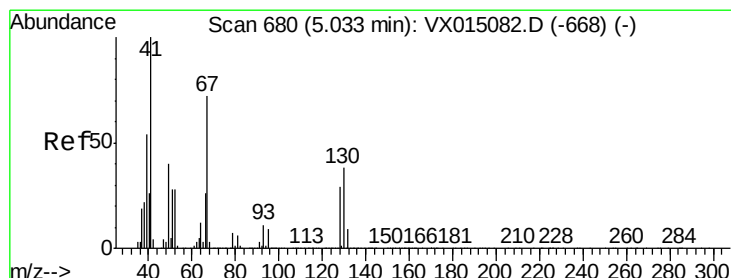
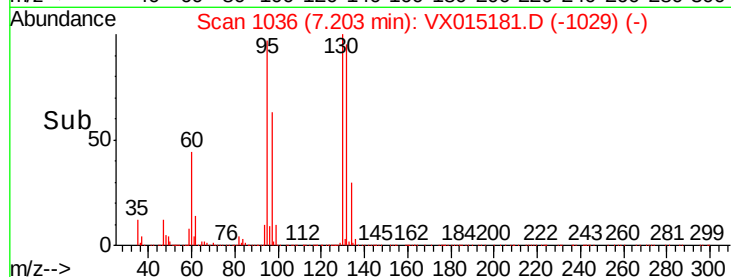
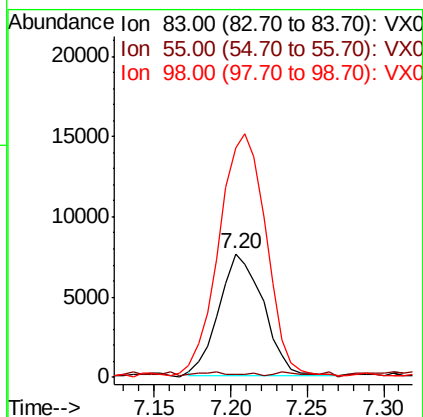
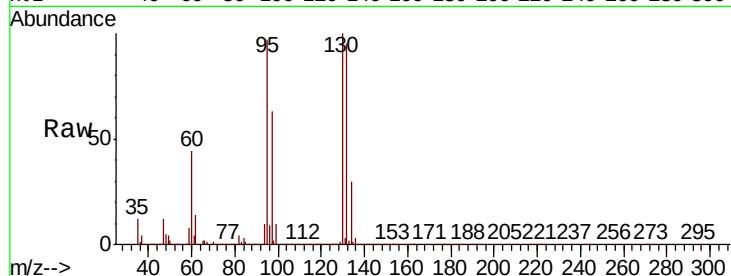
Tot Ion: 83 Resp: 15149

Ion Ratio Lower Upper

83 100

55 2.4 62.4 93.6#

98 188.1 39.7 59.5#



#41

Methacrylonitrile

Concen: 0.336 ug/l

RT: 5.04 min Scan# 681

Delta R.T. 0.01 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Tgt Ion: 41 Resp: 930

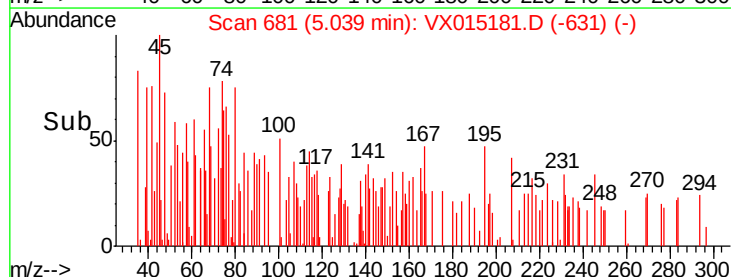
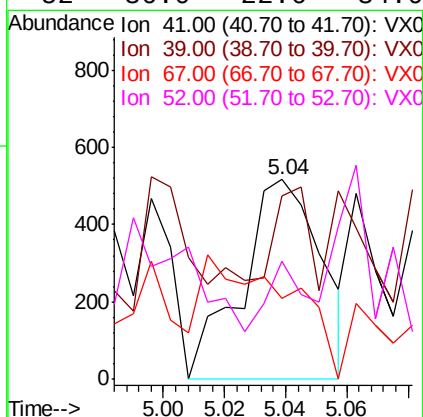
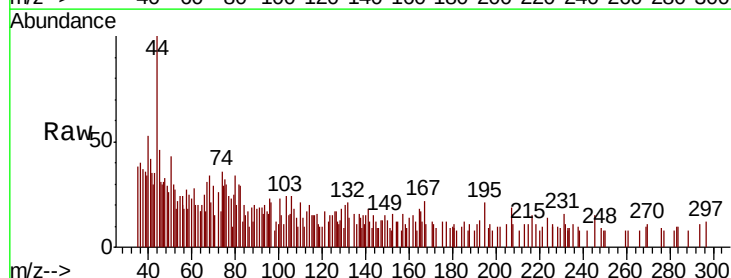
Ion Ratio Lower Upper

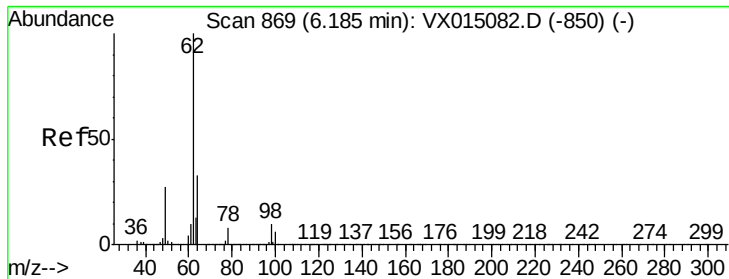
41 100

39 29.8 43.9 65.9#

67 0.0 57.8 86.8#

52 36.0 22.6 34.0#

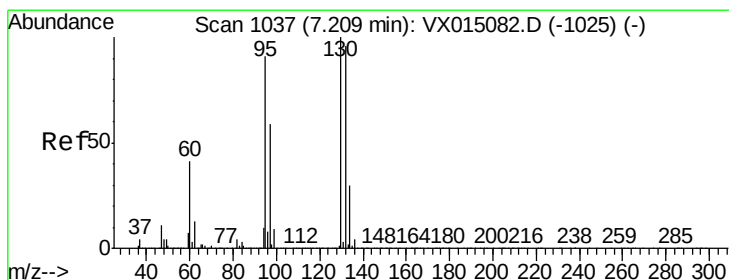
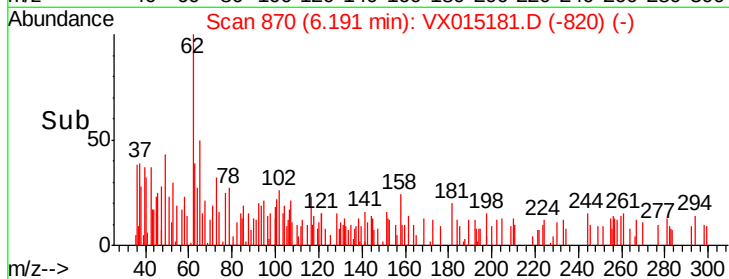
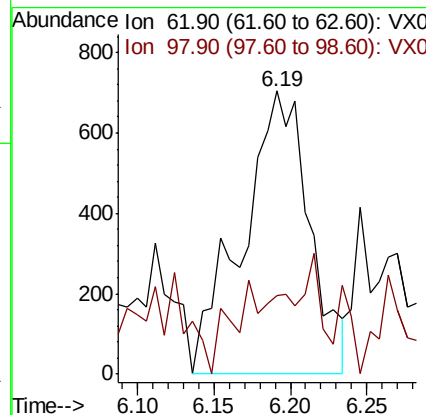
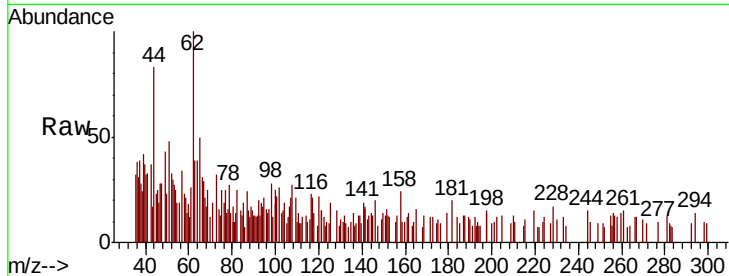




#42
1,2-Dichloroethane
Concen: 0.425 ug/l
RT: 6.19 min Scan# 870
Delta R.T. 0.01 min
Lab File: VX015181.D
Acq: 10 Mar 2020 19:05

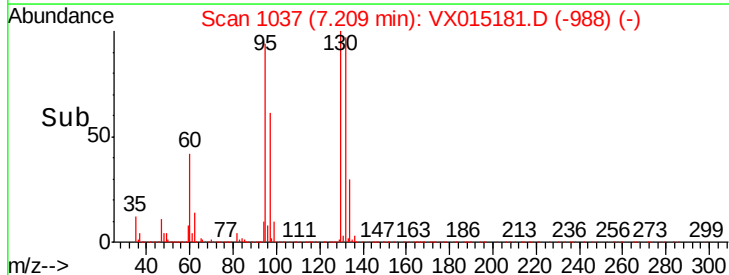
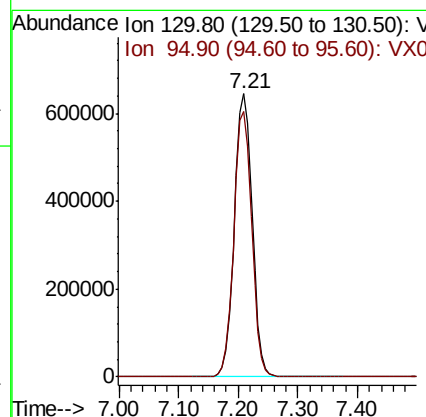
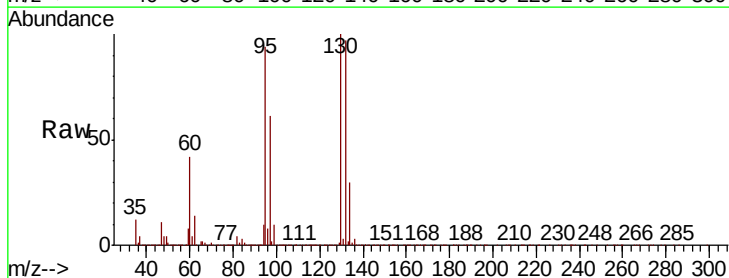
Instrument :
MSVOA_X
ClientSampled :

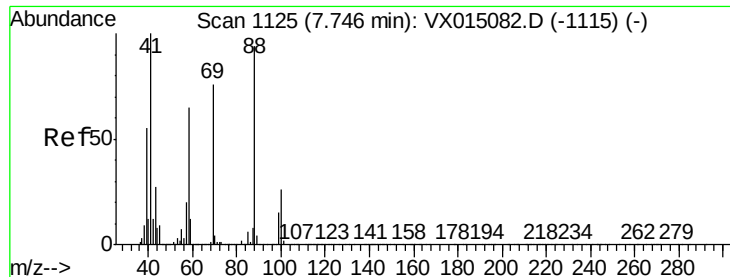
Tot Ion: 62 Resp: 2147
Ion Ratio Lower Upper
62 100
98 13.4 0.0 20.6



#44
Trichloroethene
Concen: 328.368 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX015181.D
Acq: 10 Mar 2020 19:05

Tgt Ion:130 Resp: 1346540
Ion Ratio Lower Upper
130 100
95 93.7 0.0 181.2

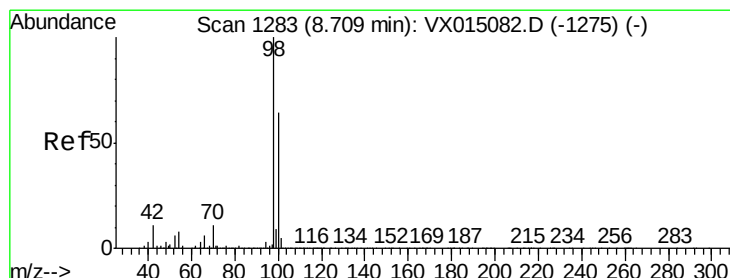
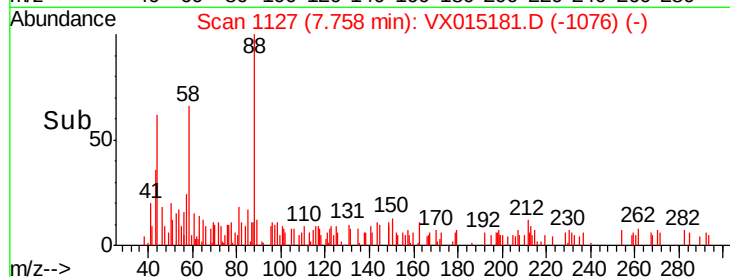
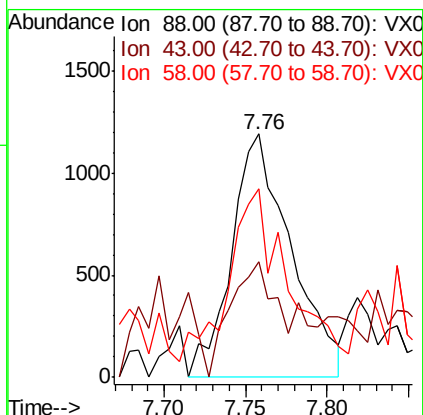
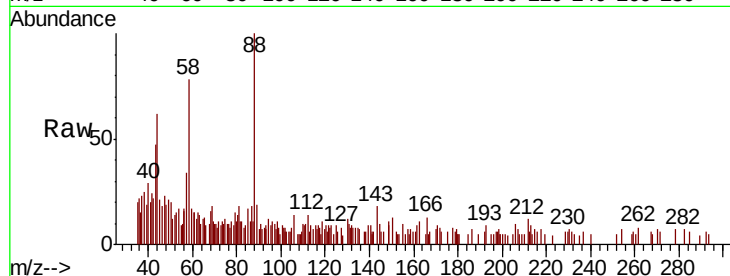




#49
1,4-Dioxane
Concen: 33.964 ug/l
RT: 7.76 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VX015181.D
Acq: 10 Mar 2020 19:05

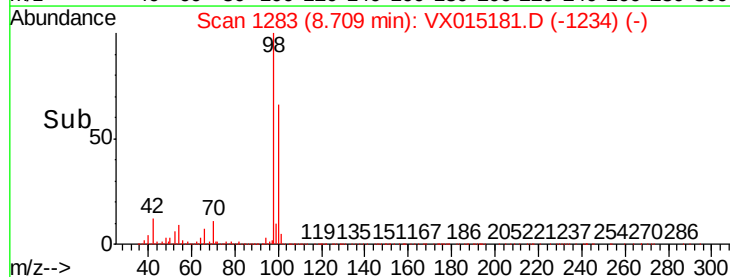
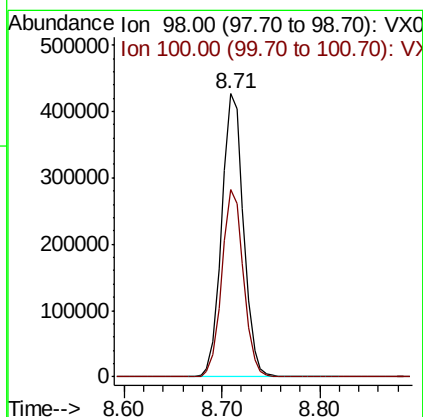
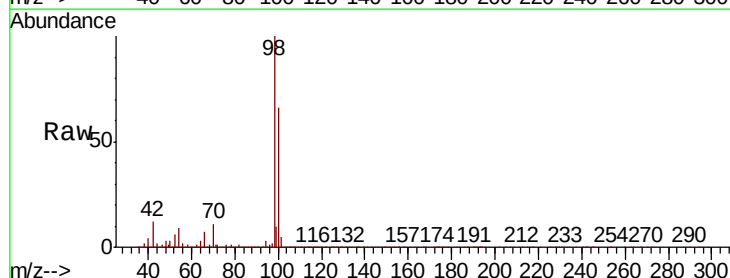
Instrument :
MSVOA_X
ClientSampleId :

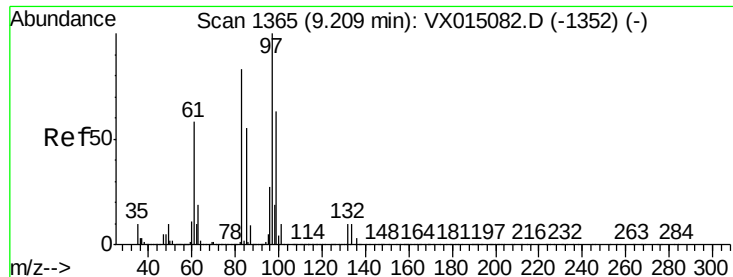
Tot Ion: 88 Resp: 3027
Ion Ratio Lower Upper
88 100
43 37.0 27.0 40.4
58 71.0 55.6 83.4



#50
Toluene-d8
Concen: 51.116 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015181.D
Acq: 10 Mar 2020 19:05

Tgt Ion: 98 Resp: 658531
Ion Ratio Lower Upper
98 100
100 65.6 52.4 78.6

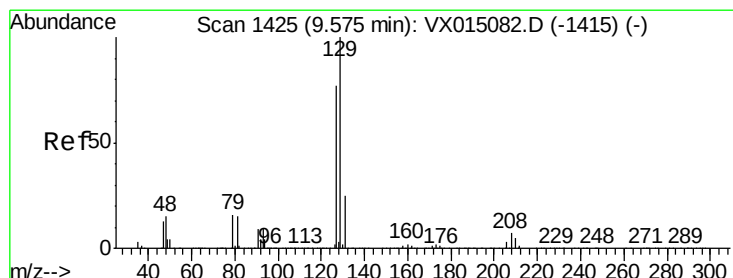
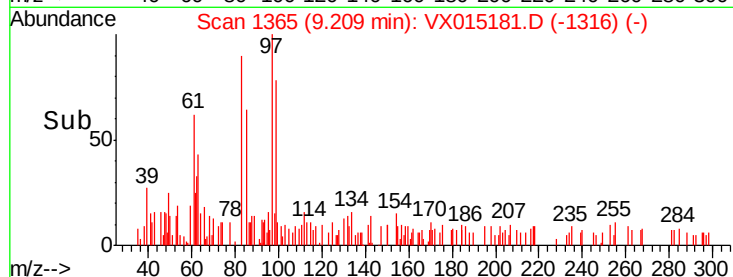
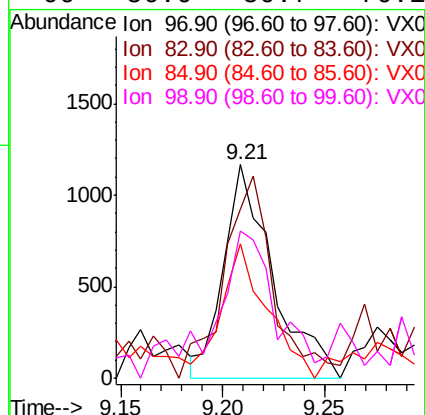
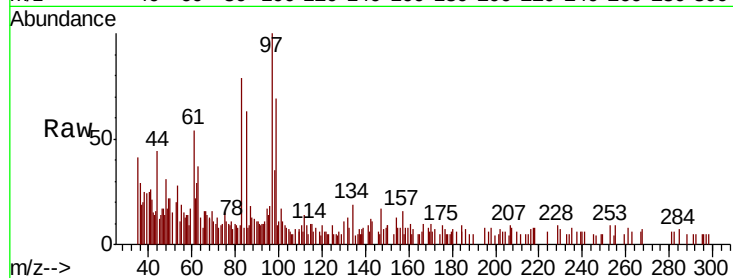




#55
 1,1,2-Trichloroethane
 Concen: 0.526 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

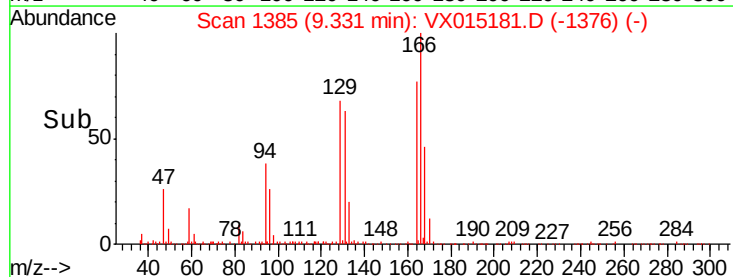
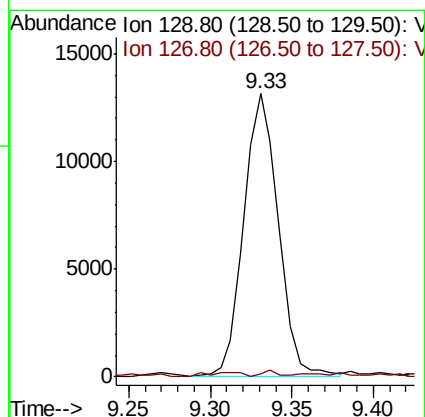
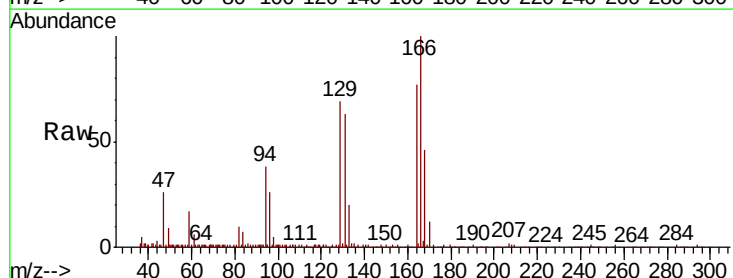
Instrument :
 MSVOA_X
 ClientSampleId :

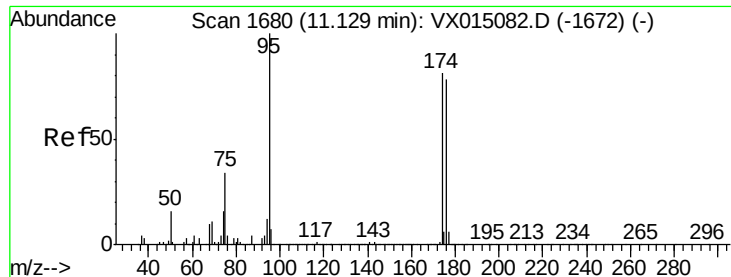
Tot Ion:	97	Resp:	1951
Ion	Ratio	Lower	Upper
97	100		
83	72.6	66.4	99.6
85	56.0	43.5	65.3
99	56.0	50.7	76.1



#60
 Dibromochloromethane
 Concen: 5.019 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.24 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

Tgt Ion:	129	Resp:	19537
Ion	Ratio	Lower	Upper
129	100		
127	1.1	38.8	116.3#





#62

4-Bromofluorobenzene

Concen: 52.986 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampled :

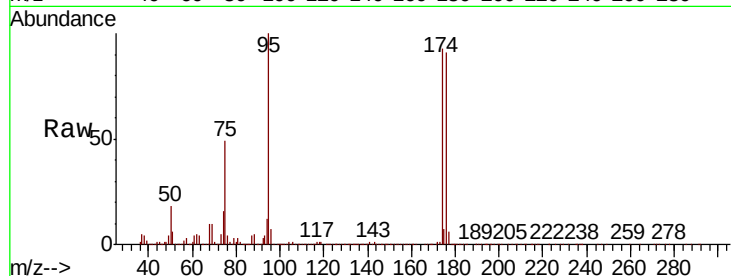
Tot Ion: 95 Resp: 243484

Ion Ratio Lower Upper

95 100

174 88.1 0.0 177.6

176 84.1 0.0 170.2

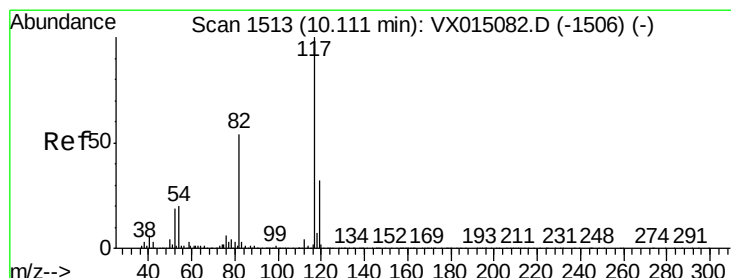
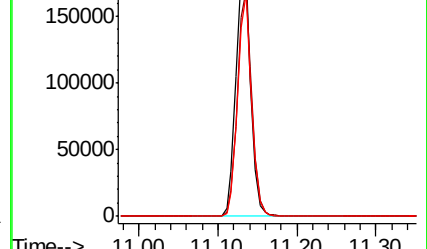
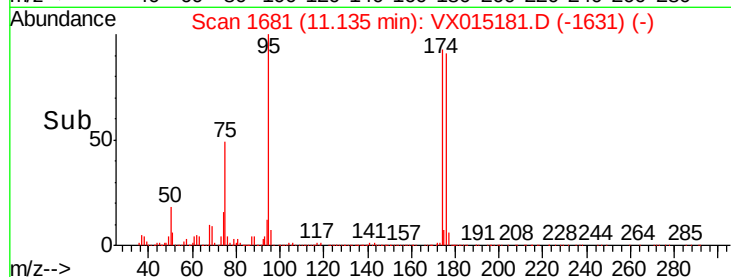


Abundance Ion 94.90 (94.60 to 95.60): VX015082.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX015082.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX015082.D (-1672) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

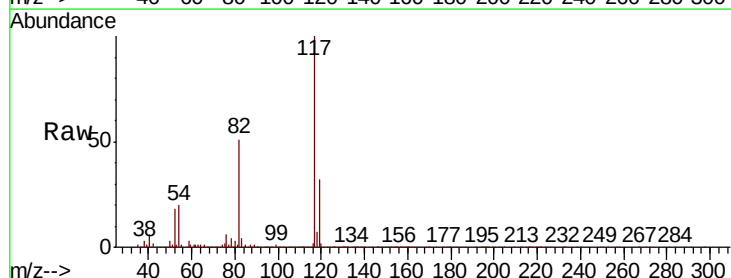
Tgt Ion: 117 Resp: 524175

Ion Ratio Lower Upper

117 100

82 51.2 43.3 64.9

119 31.9 25.8 38.8

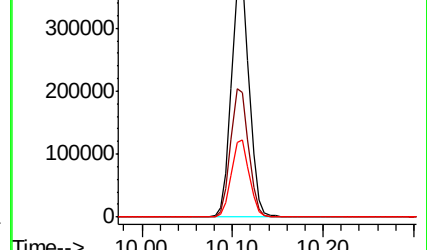
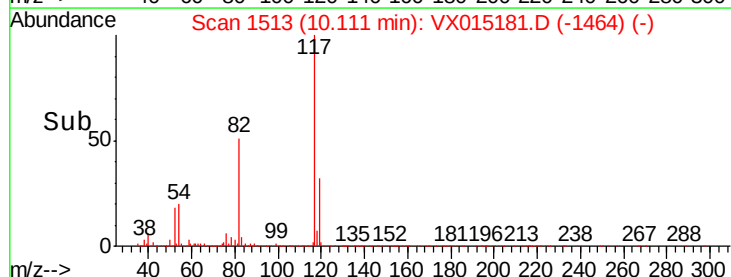


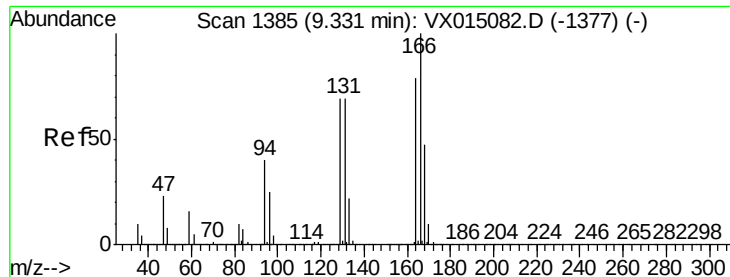
Abundance Ion 116.90 (116.60 to 117.60): VX015082.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX015082.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX015082.D (-1506) (-)

Time-->





#64

Tetrachloroethene

Concen: 4.960 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX015181.D

Acq: 10 Mar 2020 19:05

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:164 Resp: 21498

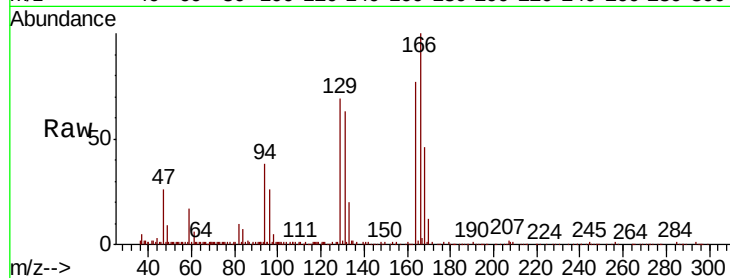
Ion Ratio Lower Upper

164 100

166 129.4 101.1 151.7

129 88.1 69.4 104.0

131 80.0 69.8 104.8



Abundance Ion 163.80 (163.50 to 164.50): V

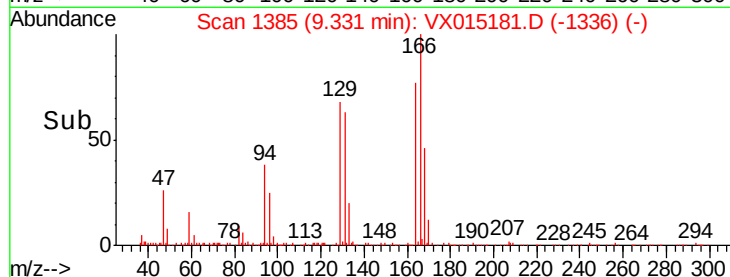
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

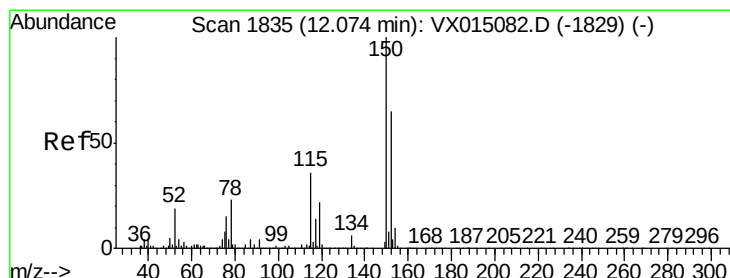
Abundance

Time-->



Abundance

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: VX015181.D

Acq: 10 Mar 2020 19:05

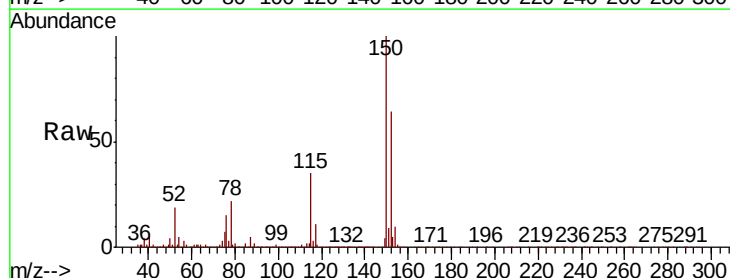
Tgt Ion:152 Resp: 267912

Ion Ratio Lower Upper

152 100

115 56.0 38.2 114.6

150 156.0 0.0 343.8



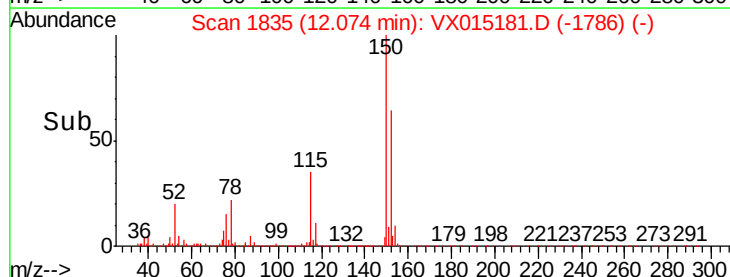
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

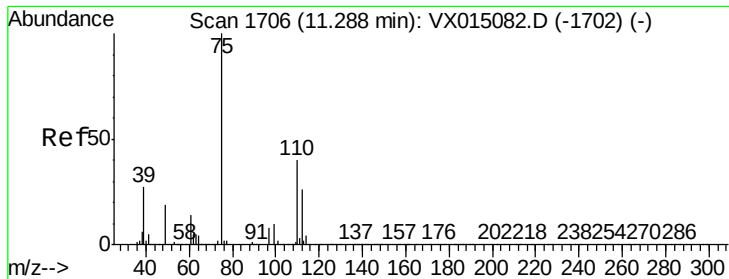
Abundance

Time-->



Abundance

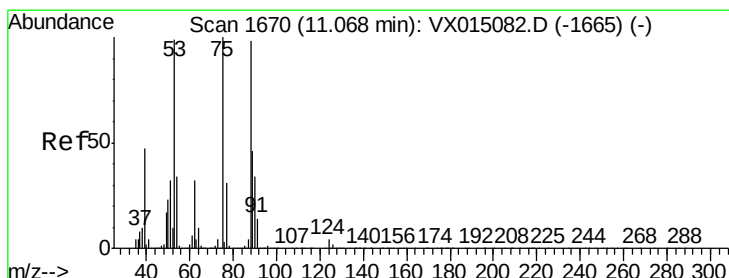
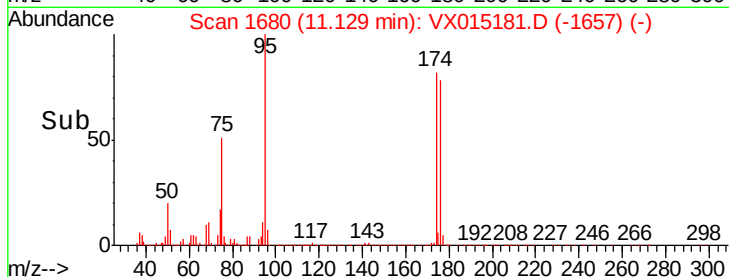
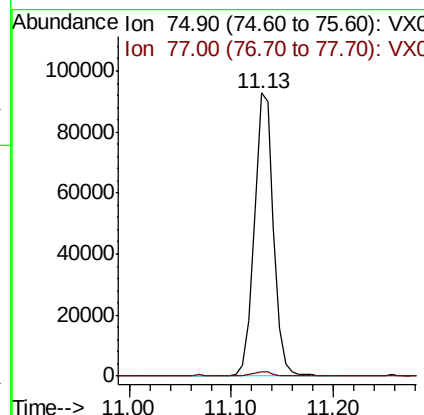
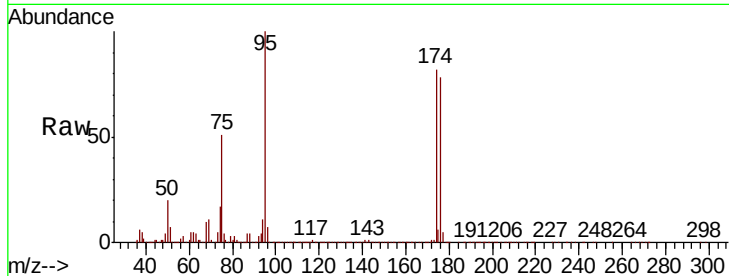
Time-->



#76
 1,2,3-Trichloropropane
 Concen: 22.651 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

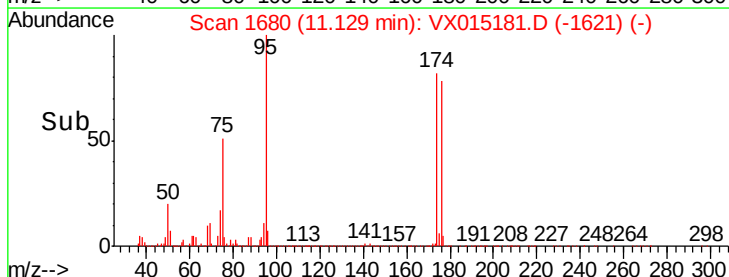
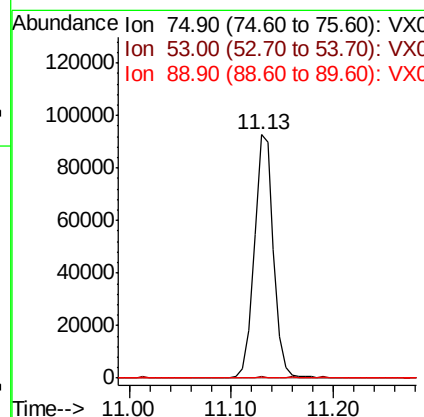
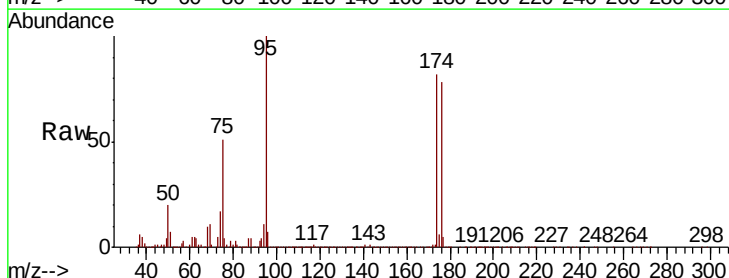
Instrument :
 MSVOA_X
 ClientSampleId :

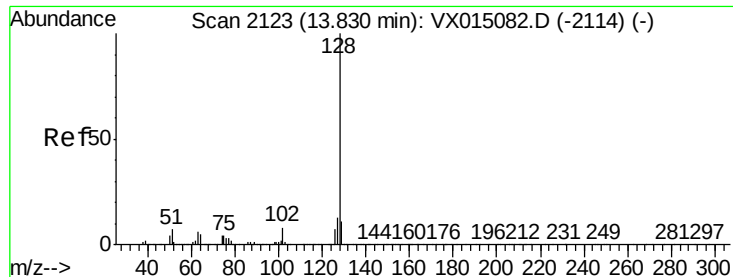
Tot Ion: 75 Resp: 121046
 Ion Ratio Lower Upper
 75 100
 77 1.7 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.283 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX015181.D
 Acq: 10 Mar 2020 19:05

Tgt Ion: 75 Resp: 121046
 Ion Ratio Lower Upper
 75 100
 53 0.2 77.9 116.9#
 89 0.1 36.2 54.2#





#95
Naphthalene
Concen: 1.438 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015181.D
Acq: 10 Mar 2020 19:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	56.2	10.3	15.5#
129	27.9	8.6	13.0#

