

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014155.D
 Acq On : 20 Dec 2019 06:02
 Operator : JC/SP
 Sample : K6372-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 07:35:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	566725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	862848	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	761012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	341891	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	303267	47.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.44%	
35) Dibromofluoromethane	5.49	113	252783	48.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.38%	
50) Toluene-d8	8.71	98	1006518	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
62) 4-Bromofluorobenzene	11.13	95	338543	45.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.70%	

Target Compounds

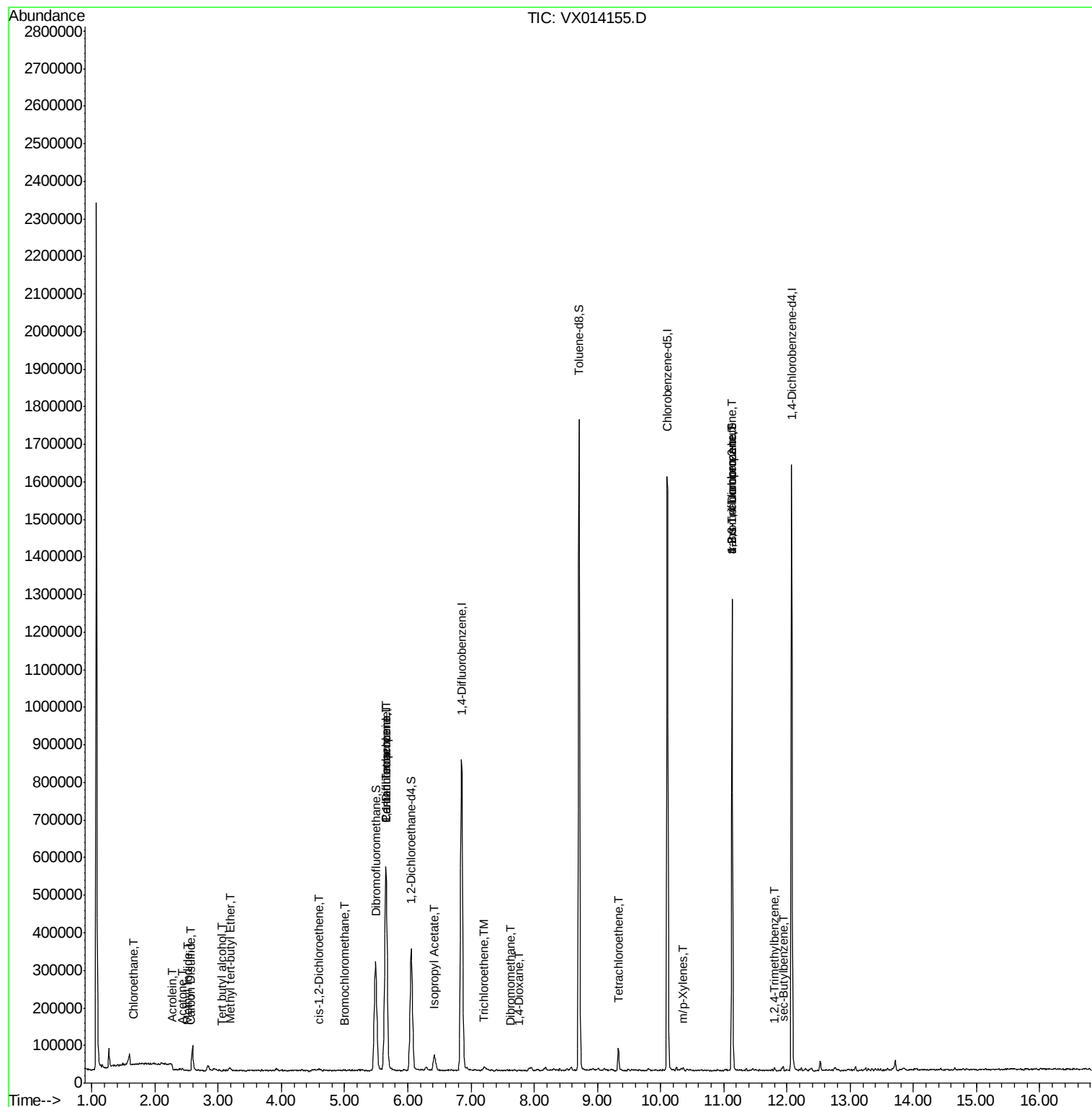
						Qvalue
6) Chloroethane	1.66	64	1392	0.314	ug/l #	75
10) Methyl Iodide	2.51	142	416	2.677	ug/l #	82
11) Tert butyl alcohol	3.05	59	723	0.521	ug/l #	10
13) Acrolein	2.28	56	259	0.326	ug/l #	14
16) Acetone	2.43	43	4715	1.131	ug/l #	80
17) Carbon Disulfide	2.56	76	964	0.813	ug/l #	1
19) Methyl tert-butyl Ether	3.19	73	8132	0.454	ug/l	95
27) cis-1,2-Dichloroethene	4.59	96	1892	0.279	ug/l	86
28) Bromochloromethane	5.00	49	105	0.479	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	39078	4.936	ug/l #	49
38) Carbon Tetrachloride	5.65	117	50200	6.960	ug/l #	16
43) Isopropyl Acetate	6.42	43	15782	1.091	ug/l #	23
44) Trichloroethene	7.21	130	4614	0.686	ug/l	99
46) Dibromomethane	7.63	93	837	0.203	ug/l #	43
49) 1,4-Dioxane	7.76	88	464	3.218	ug/l #	28
64) Tetrachloroethene	9.33	164	13032	1.935	ug/l #	86
68) m/p-Xylenes	10.36	106	2204	0.206	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	164522	22.166	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	164522	62.563	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.81	105	4863	0.240	ug/l	95
85) sec-Butylbenzene	11.94	105	7527	0.323	ug/l	96

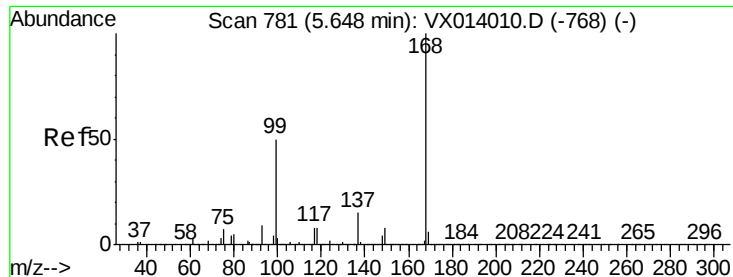
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :

MSVOA_X

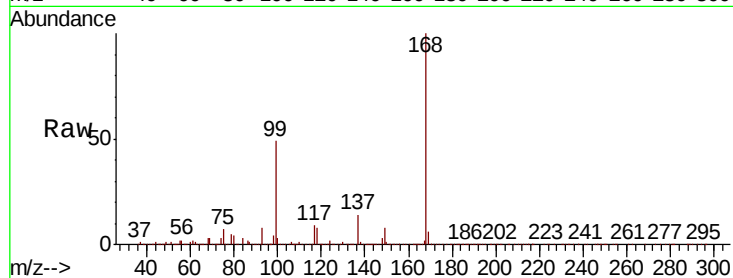
ClientSampled :

Tot Ion:168 Resp: 566725

Ion Ratio Lower Upper

168 100

99 49.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

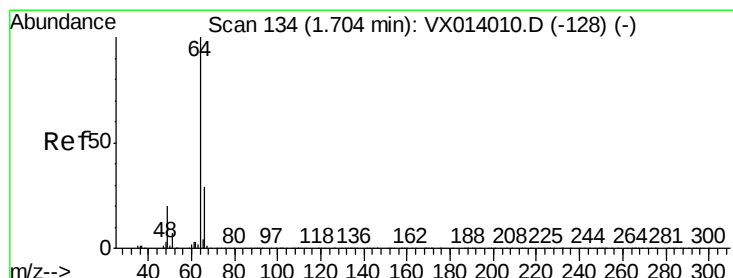
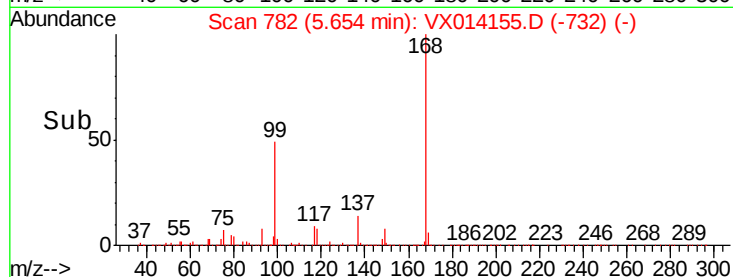
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.314 ug/l

RT: 1.66 min Scan# 127

Delta R.T. -0.04 min

Lab File: VX014155.D

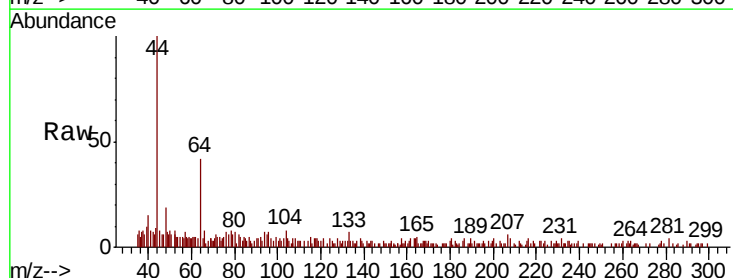
Acq: 20 Dec 2019 06:02

Tgt Ion: 64 Resp: 1392

Ion Ratio Lower Upper

64 100

66 15.8 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.66

2000

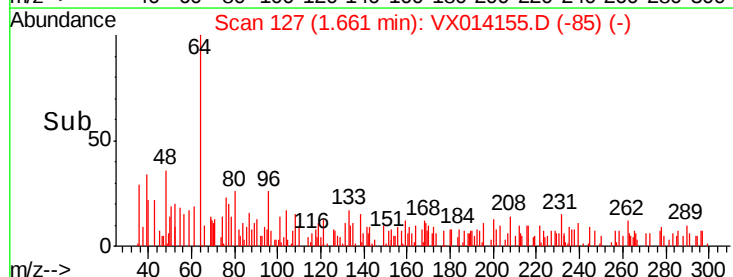
1500

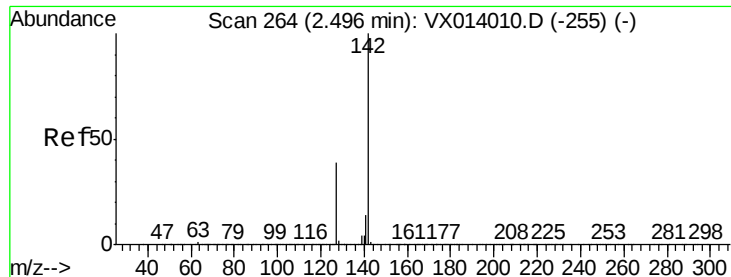
1000

500

0

Time-->





#10

Methyl Iodide

Concen: 2.677 ug/l

RT: 2.51 min Scan# 266

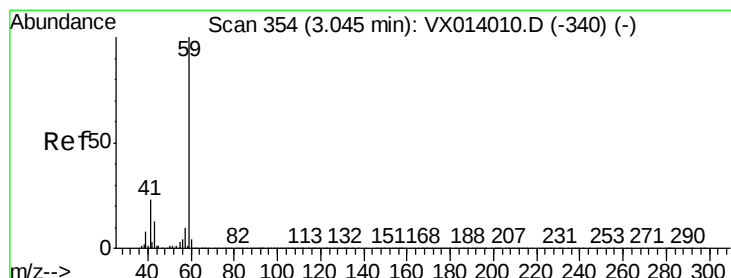
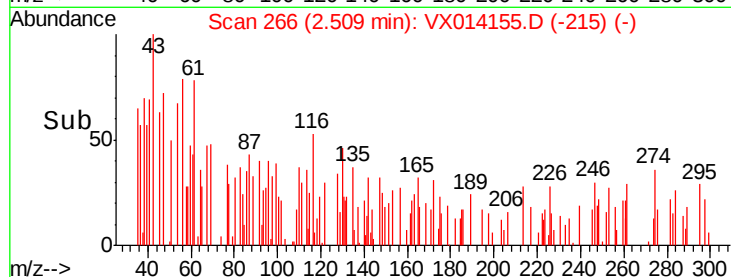
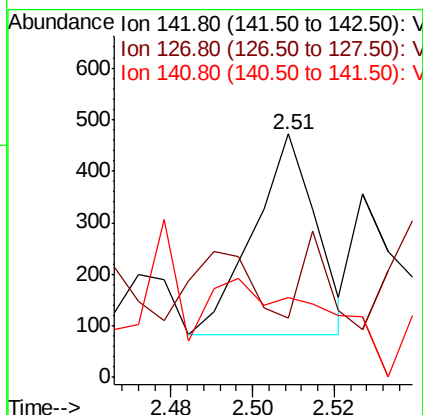
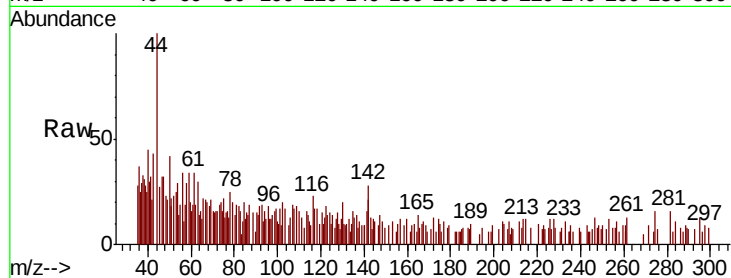
Delta R.T. 0.01 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	142	Resp:	416
Ion	Ratio	Lower	Upper
142	100		
127	32.7	31.6	47.4
141	0.0	11.6	17.4#



#11

Tert butyl alcohol

Concen: 0.521 ug/l

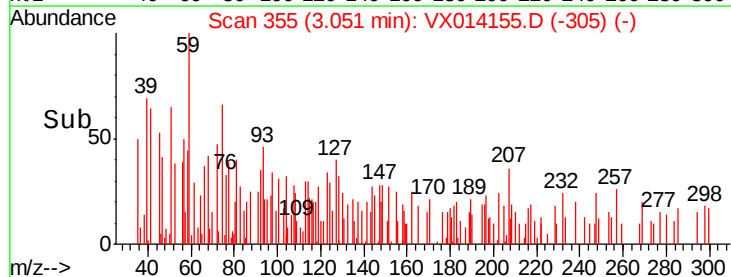
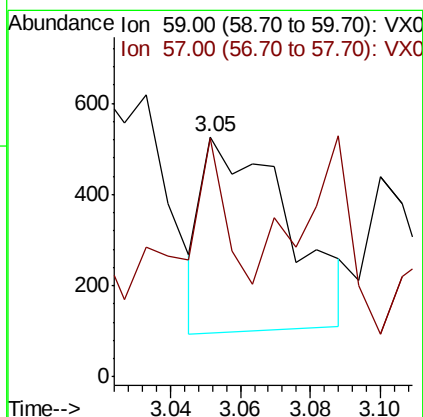
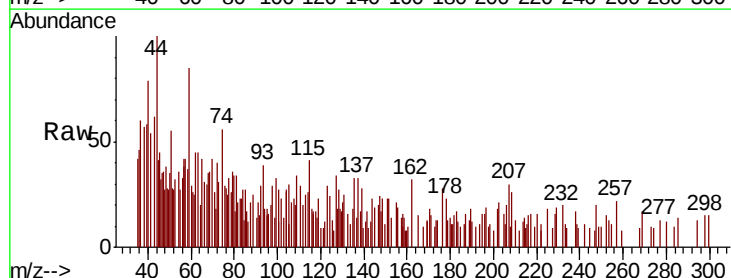
RT: 3.05 min Scan# 355

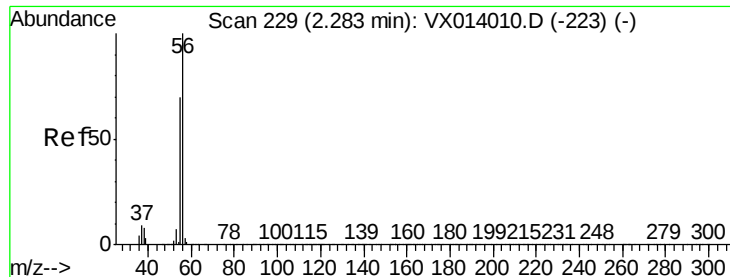
Delta R.T. 0.01 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Tgt Ion:	59	Resp:	723
Ion	Ratio	Lower	Upper
59	100		
57	44.4	8.4	12.6#

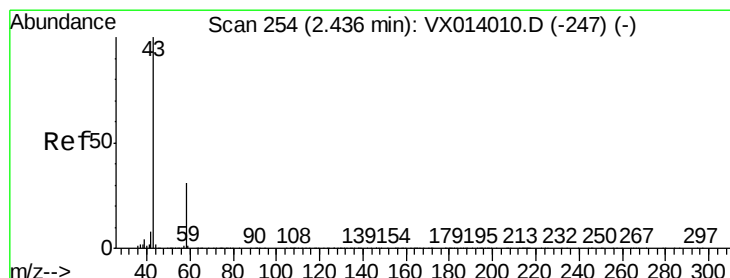
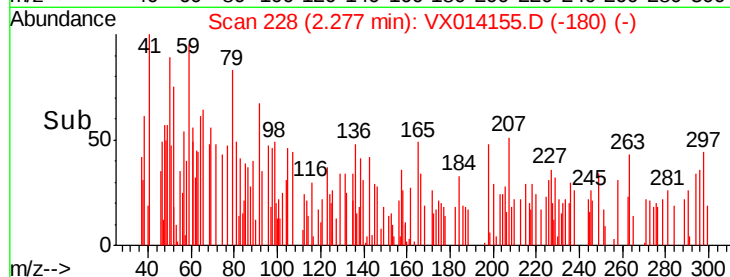
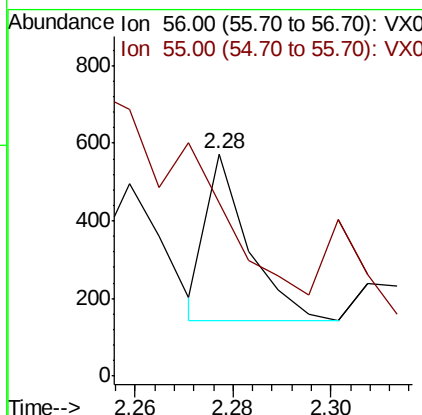
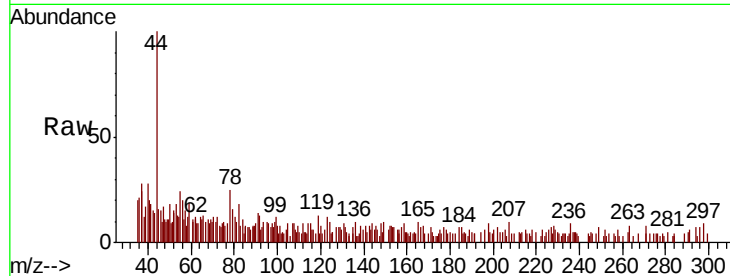




#13
Acrolein
Concen: 0.326 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

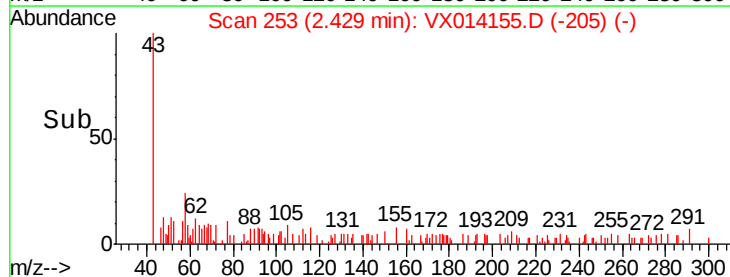
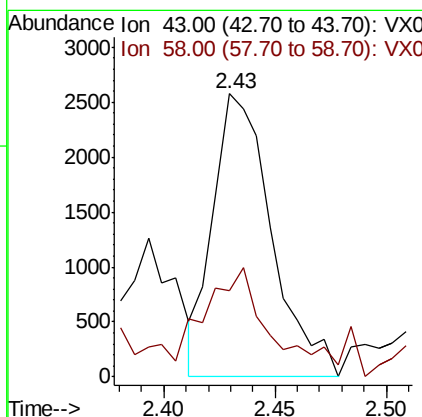
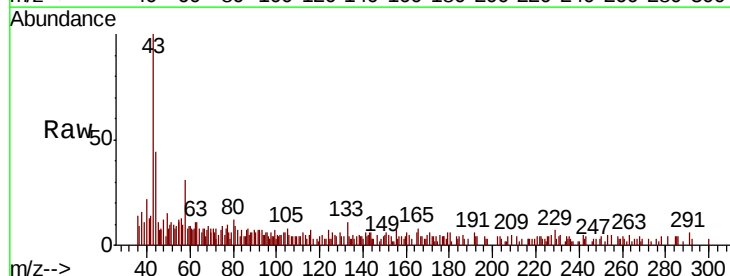
Instrument :
MSVOA_X
ClientSampled :

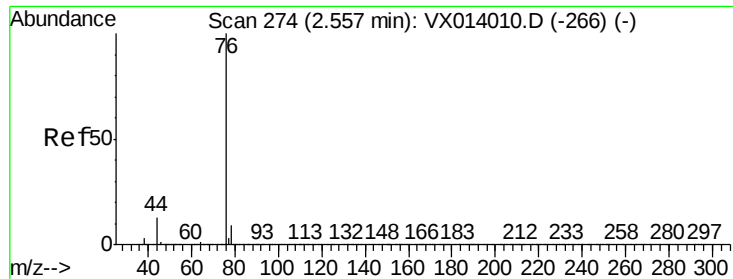
Tot Ion: 56 Resp: 259
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 1.131 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Tgt Ion: 43 Resp: 4715
Ion Ratio Lower Upper
43 100
58 20.0 24.9 37.3#

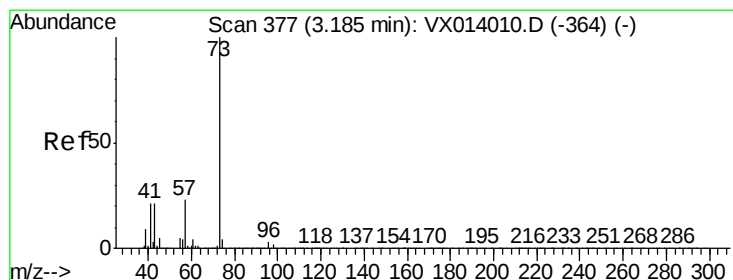
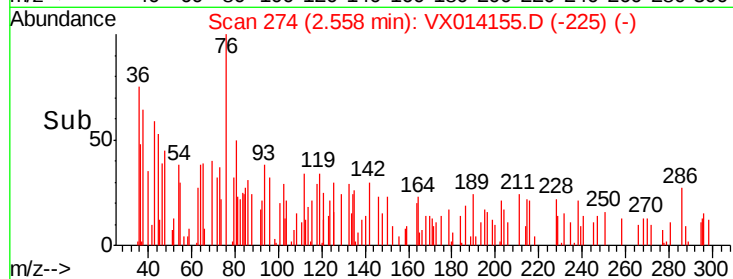
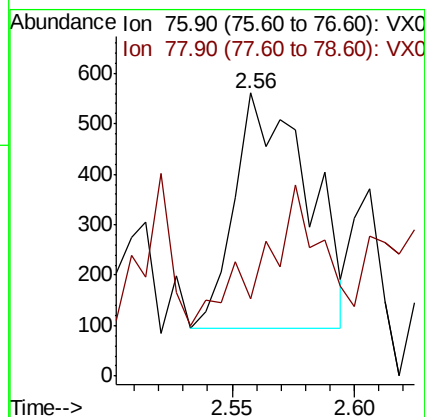
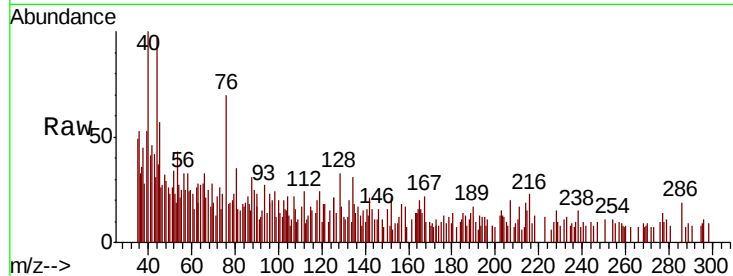




#17
Carbon Disulfide
Concen: 0.813 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

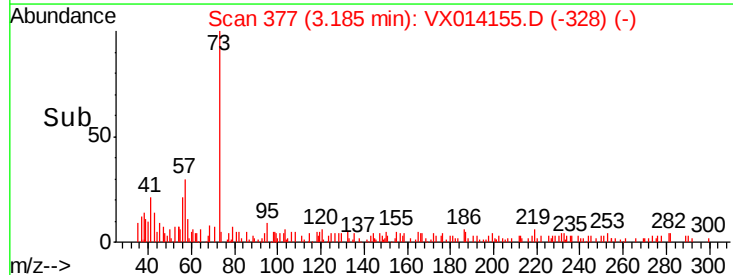
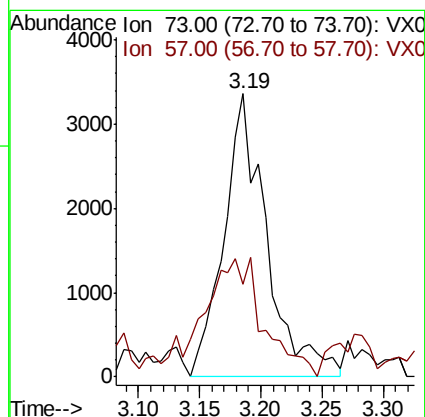
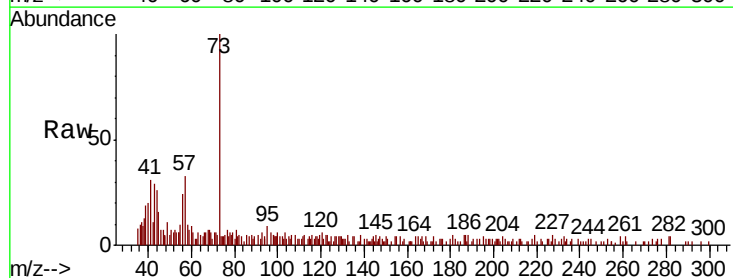
Instrument :
MSVOA_X
ClientSampled :

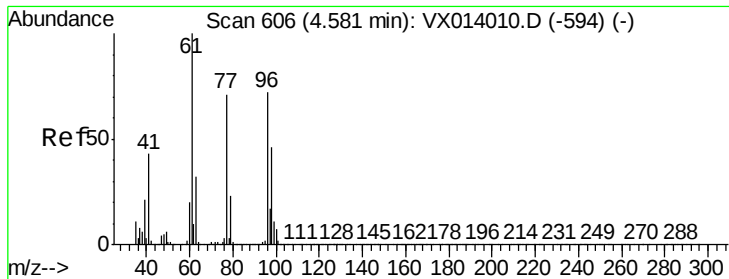
Tot Ion: 76 Resp: 964
Ion Ratio Lower Upper
76 100
78 46.8 7.2 10.8#



#19
Methyl tert-butyl Ether
Concen: 0.454 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.00 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Tgt Ion: 73 Resp: 8132
Ion Ratio Lower Upper
73 100
57 21.0 18.8 28.2



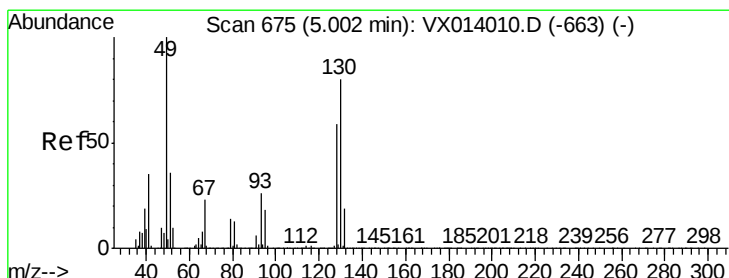
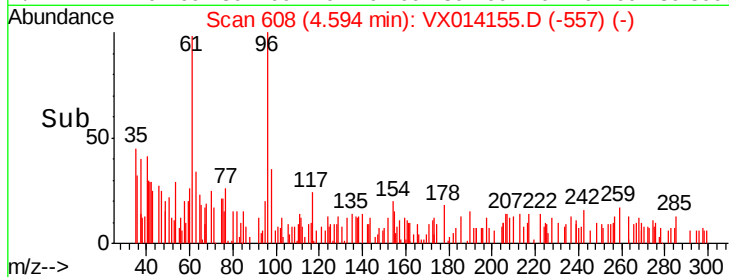
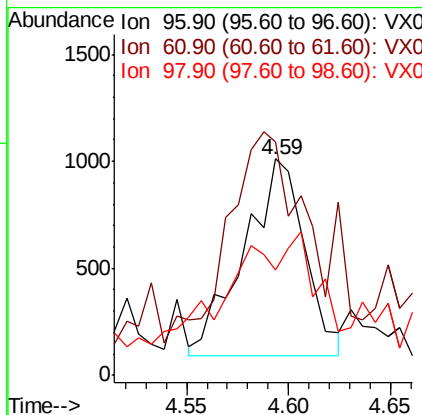
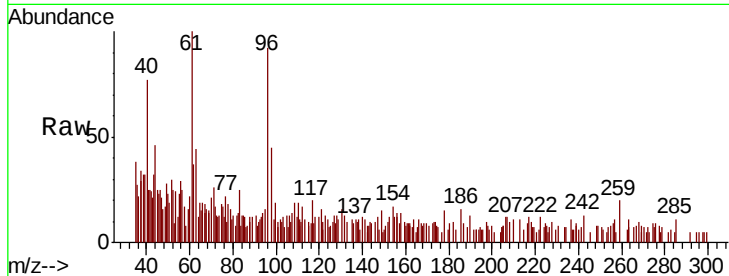


#27

cis-1,2-Dichloroethene
Concen: 0.279 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Instrument :
MSVOA_X
ClientSampled :

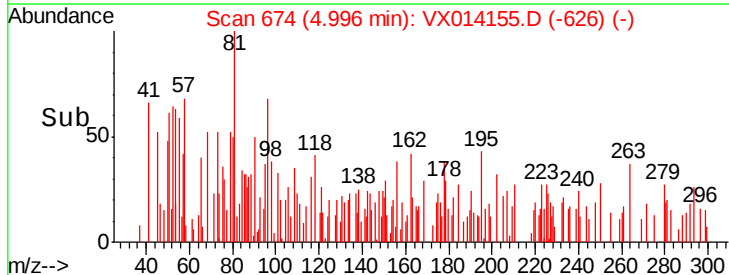
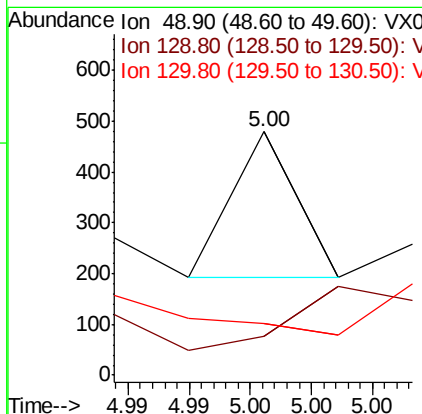
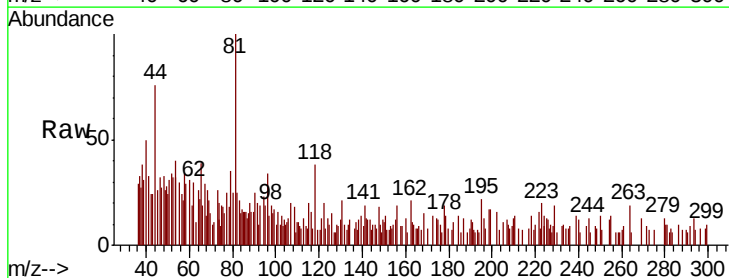
Tot Ion	Ratio	Lower	Upper
96	100		
61	155.9	0.0	288.4
98	45.1	0.0	129.6

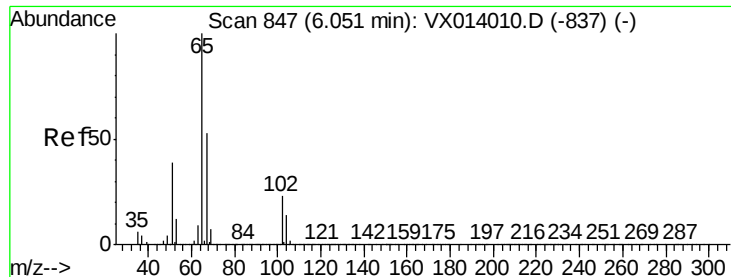


#28

Bromochloromethane
Concen: 0.479 ug/l
RT: 5.00 min Scan# 674
Delta R.T. -0.01 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Tgt Ion	Ratio	Lower	Upper
49	100		
129	140.0	0.0	5.0#
130	0.0	64.6	97.0#





#33

1,2-Dichloroethane-d4

Concen: 47.215 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :

MSVOA_X

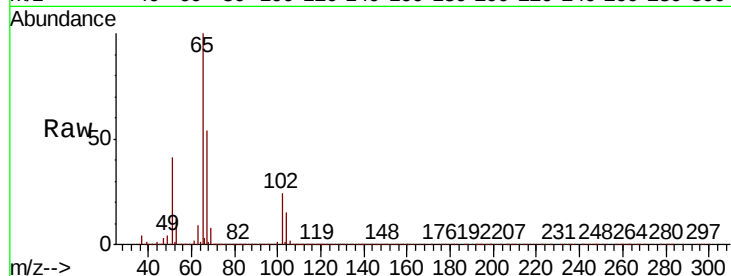
ClientSampled :

Tot Ion: 65 Resp: 303267

Ion Ratio Lower Upper

65 100

67 54.4 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

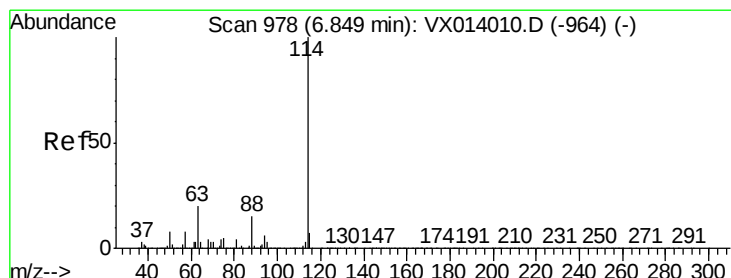
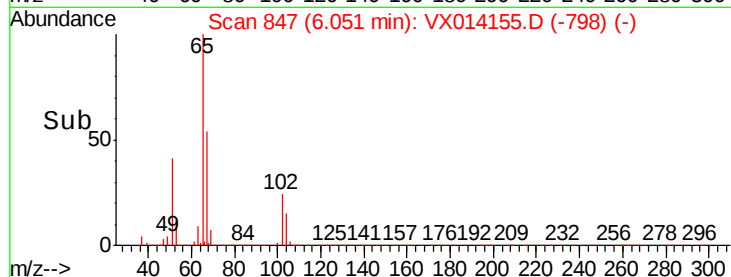
6.05

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

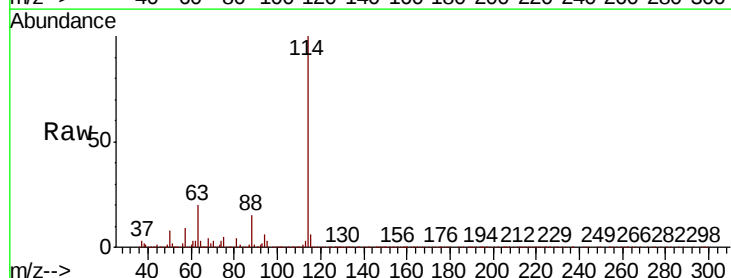
Tgt Ion: 114 Resp: 862848

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

88 15.1 0.0 30.4



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

500000

400000

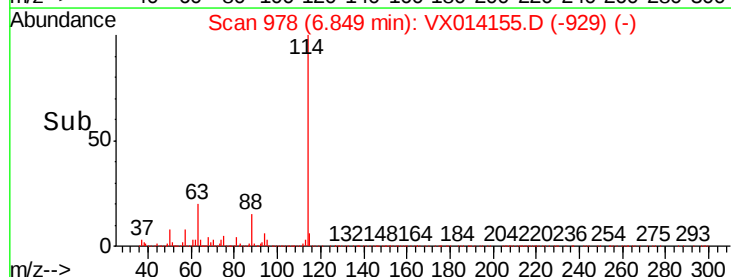
300000

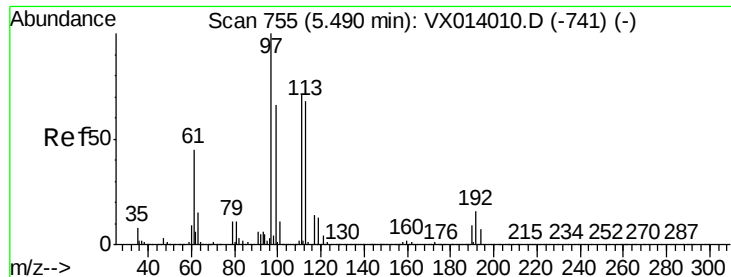
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.194 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :
MSVOA_X
ClientSampleId :

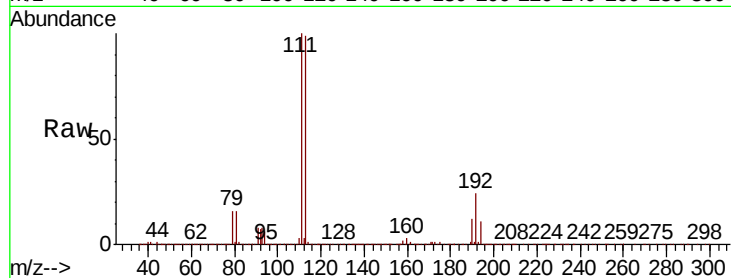
Tot Ion:113 Resp: 252783

Ion Ratio Lower Upper

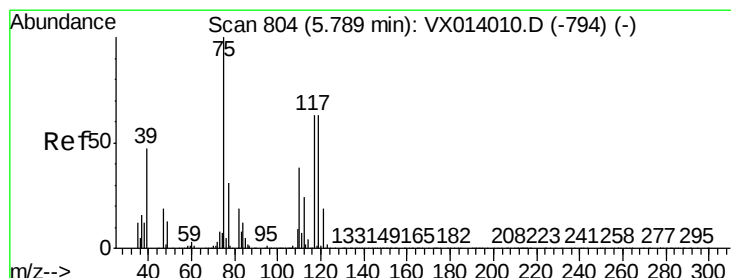
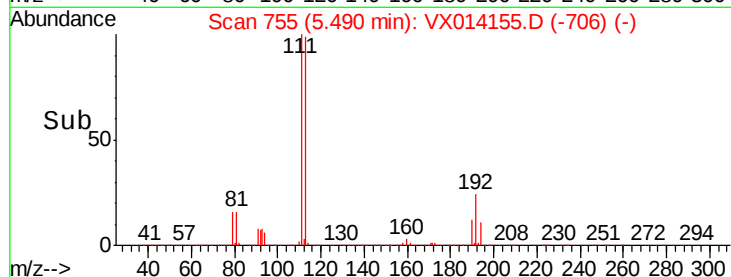
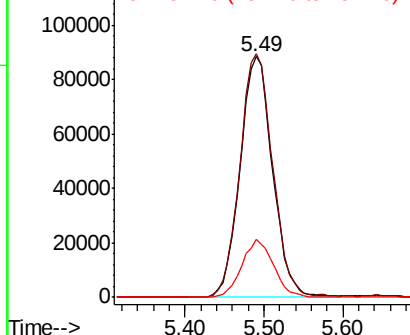
113 100

111 101.8 82.0 123.0

192 23.7 19.3 28.9



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: 4.936 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

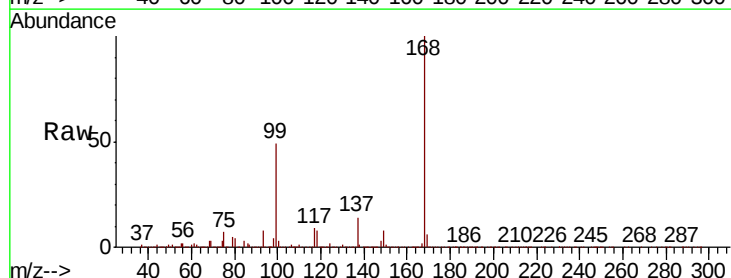
Tgt Ion: 75 Resp: 39078

Ion Ratio Lower Upper

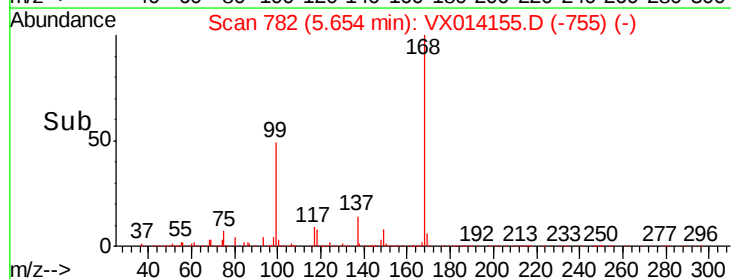
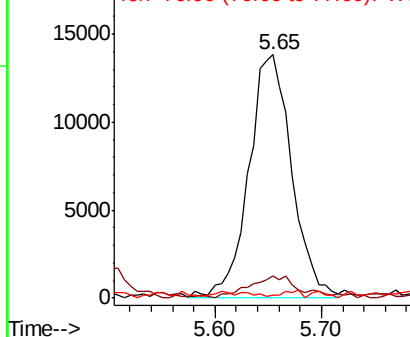
75 100

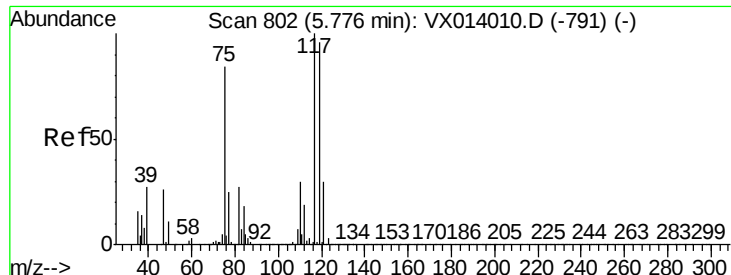
110 9.4 18.3 54.9#

77 0.0 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

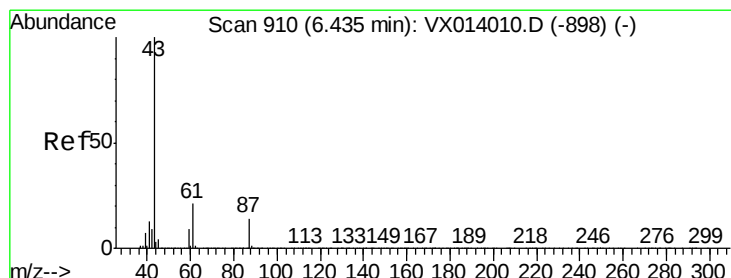
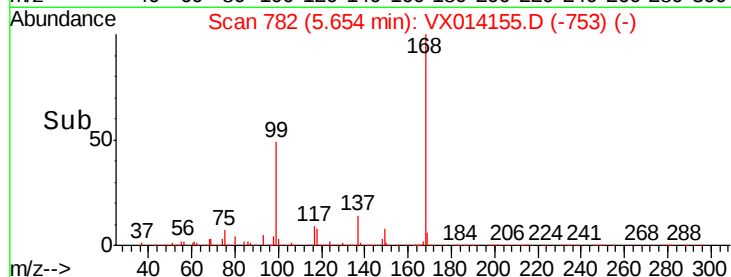
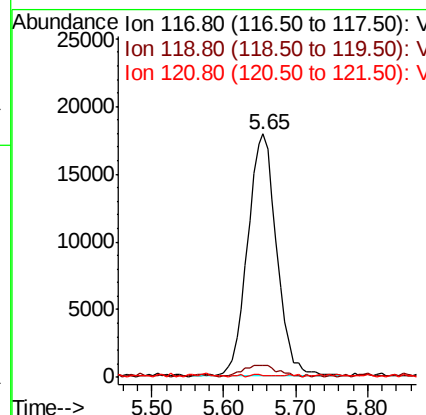
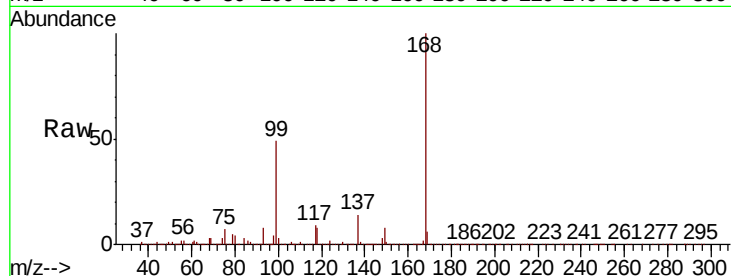




#38
Carbon Tetrachloride
Concen: 6.960 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

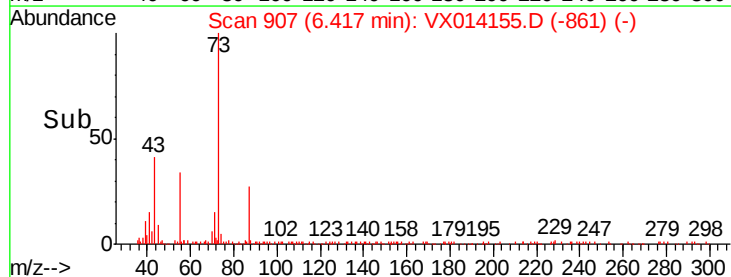
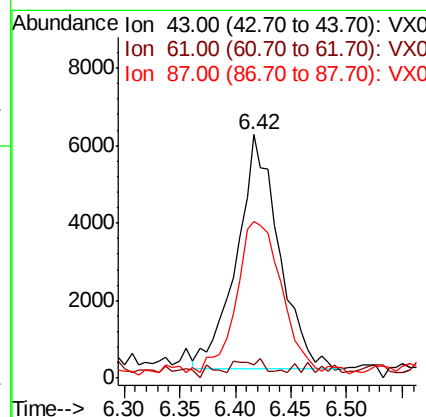
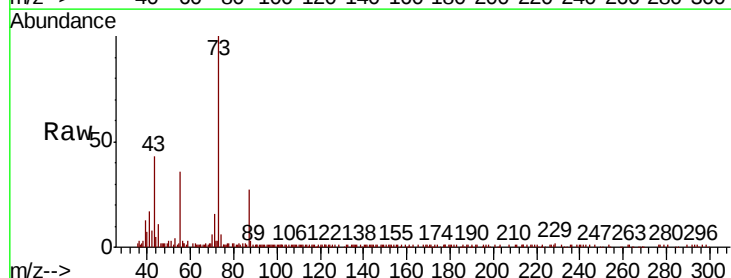
Instrument :
MSVOA_X
ClientSampled :

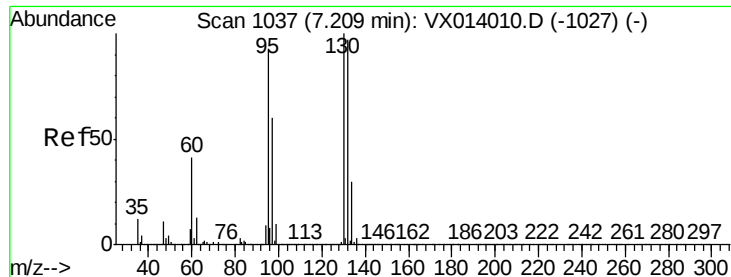
Tot Ion:117 Resp: 50200
Ion Ratio Lower Upper
117 100
119 4.2 76.2 114.4#
121 0.1 23.6 35.4#



#43
Isopropyl Acetate
Concen: 1.091 ug/l
RT: 6.42 min Scan# 907
Delta R.T. -0.02 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Tgt Ion: 43 Resp: 15782
Ion Ratio Lower Upper
43 100
61 4.3 16.4 24.6#
87 70.0 10.7 16.1#





#44

Trichloroethene

Concen: 0.686 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :

MSVOA_X

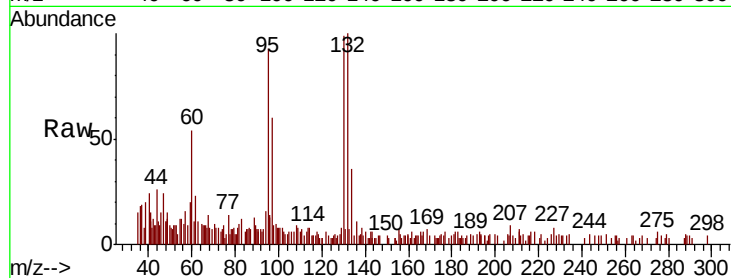
ClientSampled :

Tot Ion:130 Resp: 4614

Ion Ratio Lower Upper

130 100

95 92.0 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

2500

2000

1500

1000

500

0

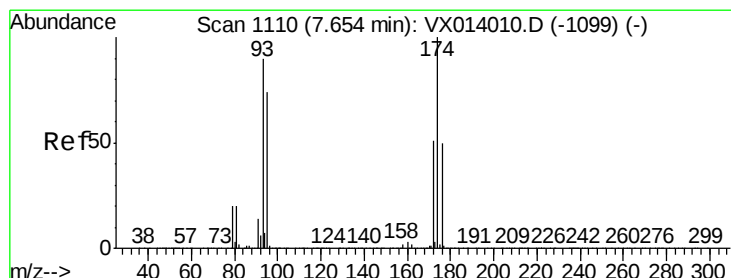
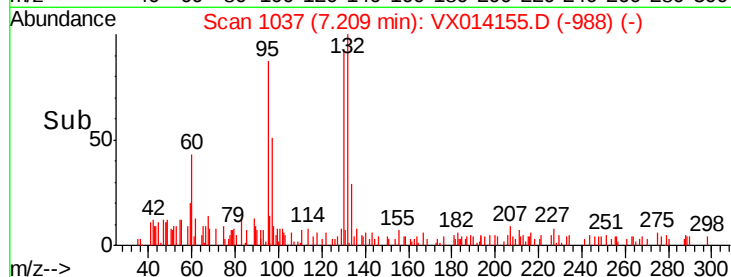
Time-->

7.15

7.20

7.25

7.30



#46

Dibromomethane

Concen: 0.203 ug/l

RT: 7.63 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

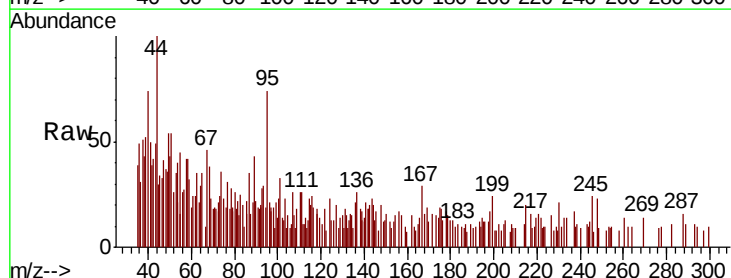
Tgt Ion: 93 Resp: 837

Ion Ratio Lower Upper

93 100

95 105.1 67.3 100.9#

174 25.2 91.6 137.4#



Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V

600

400

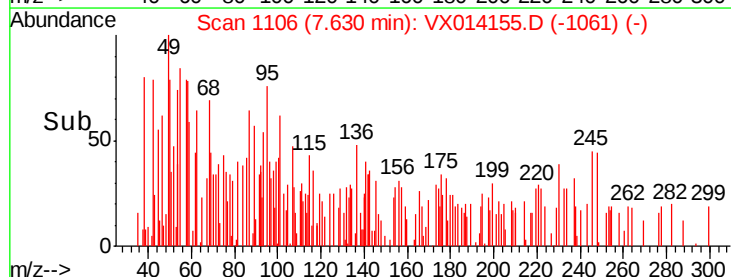
200

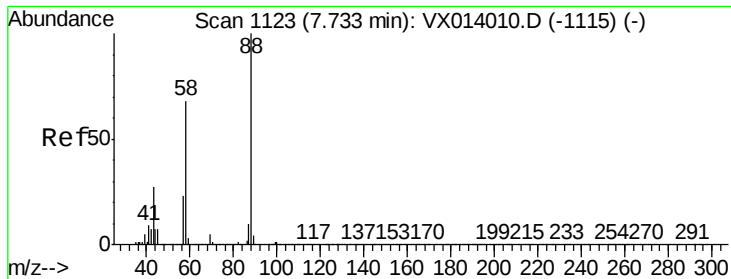
0

Time-->

7.60

7.65





#49

1,4-Dioxane

Concen: 3.218 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

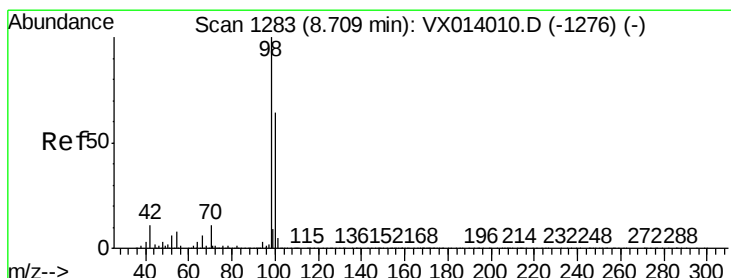
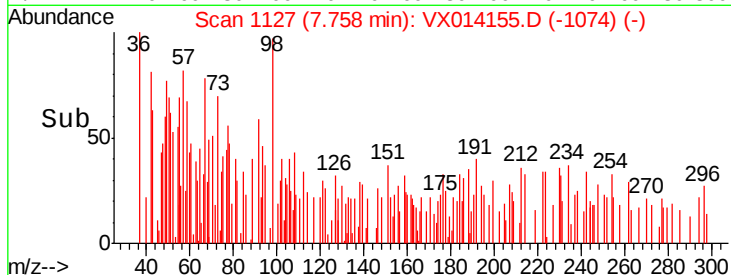
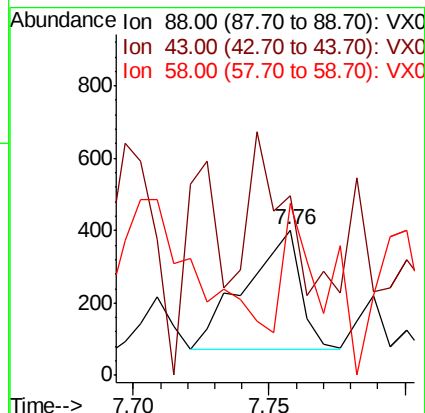
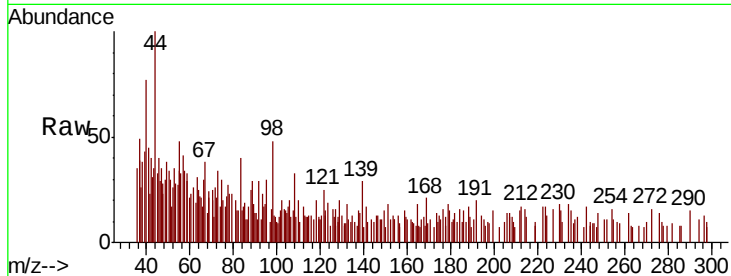
Tot Ion: 88 Resp: 464

Ion Ratio Lower Upper

88 100

43 113.4 26.5 39.7#

58 103.9 56.8 85.2#



#50

Toluene-d8

Concen: 49.289 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014155.D

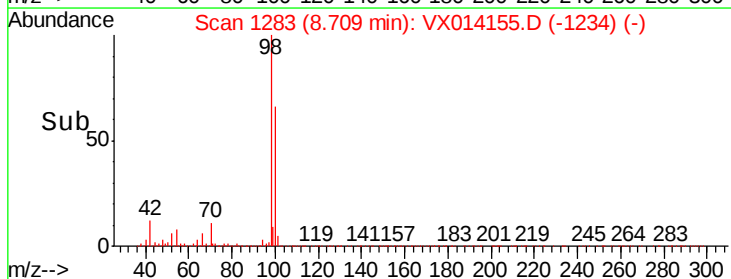
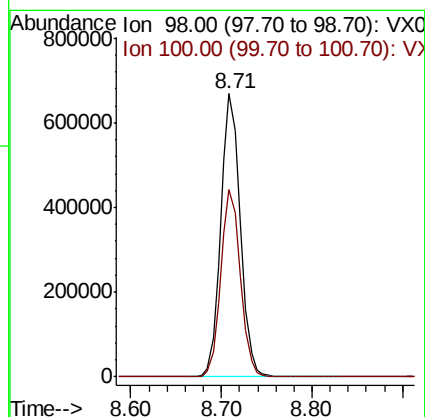
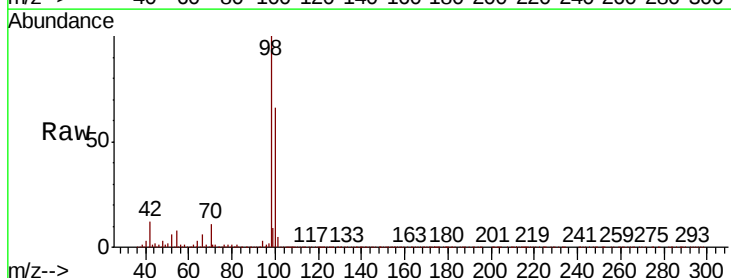
Acq: 20 Dec 2019 06:02

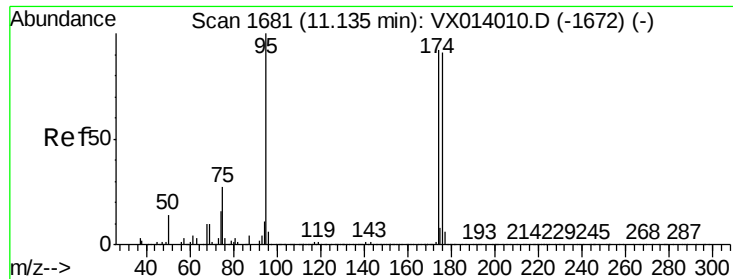
Tgt Ion: 98 Resp: 1006518

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3

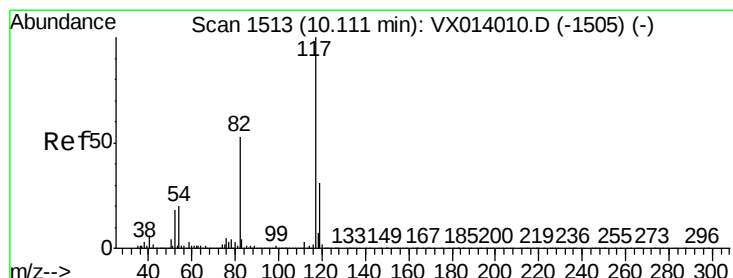
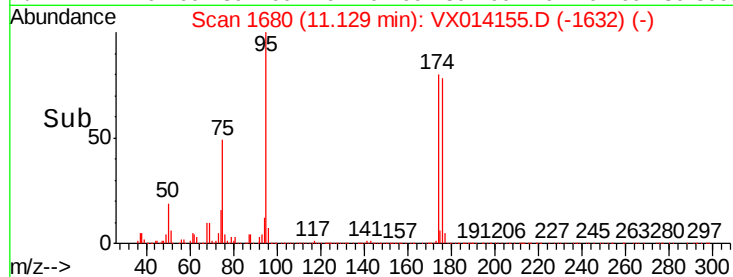
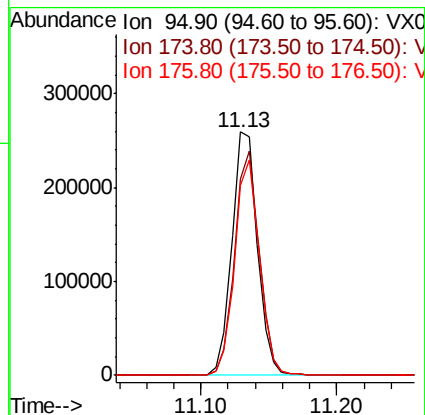
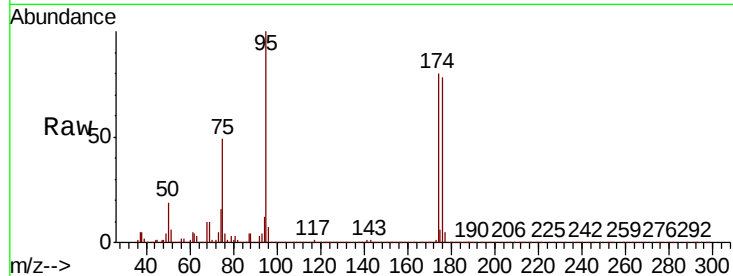




#62
4-Bromofluorobenzene
Concen: 45.353 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

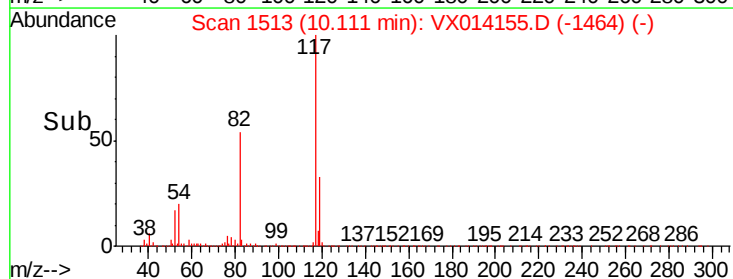
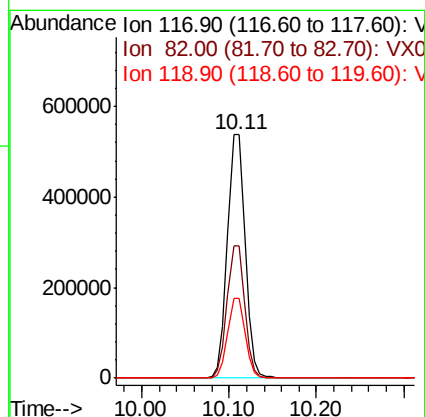
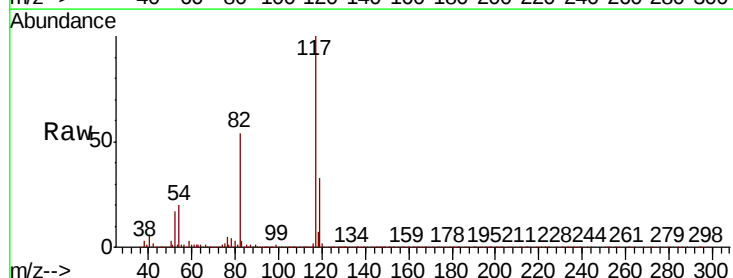
Instrument :
MSVOA_X
ClientSampleId :

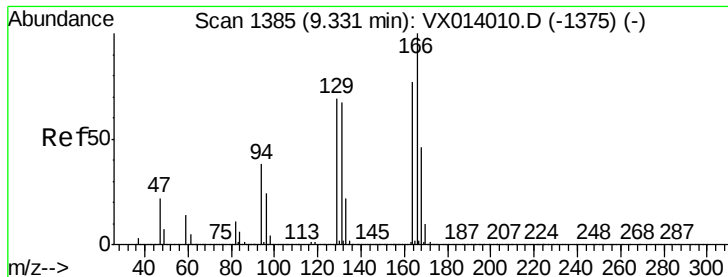
Tot Ion: 95 Resp: 338543
Ion Ratio Lower Upper
95 100
174 89.6 0.0 175.8
176 86.1 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Tgt Ion: 117 Resp: 761012
Ion Ratio Lower Upper
117 100
82 54.4 42.2 63.4
119 32.7 25.1 37.7





#64

Tetrachloroethene

Concen: 1.935 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 13032

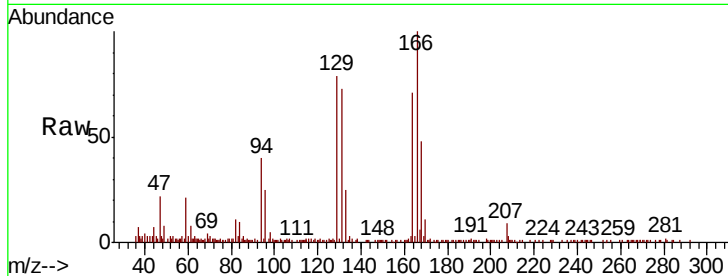
Ion Ratio Lower Upper

164 100

166 140.5 104.0 156.0

129 109.5 72.2 108.4#

131 102.0 69.6 104.4



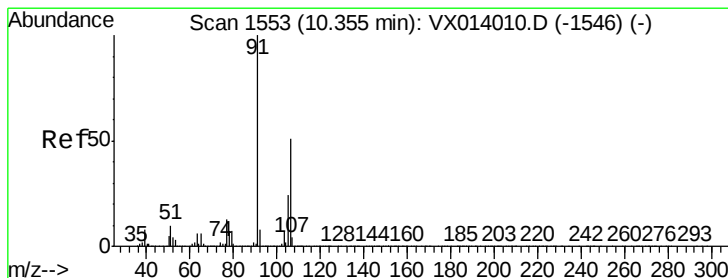
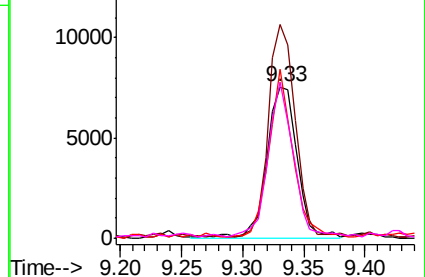
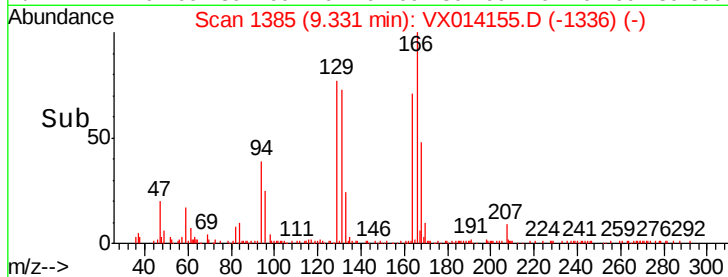
Abundance Ion 163.80 (163.50 to 164.50): V

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-->



#68

m/p-Xylenes

Concen: 0.206 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX014155.D

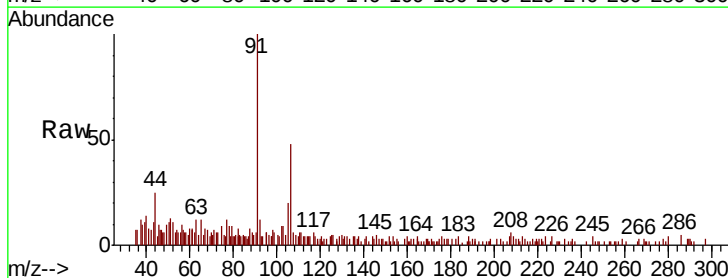
Acq: 20 Dec 2019 06:02

Tgt Ion:106 Resp: 2204

Ion Ratio Lower Upper

106 100

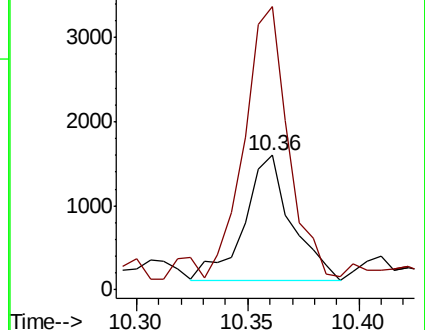
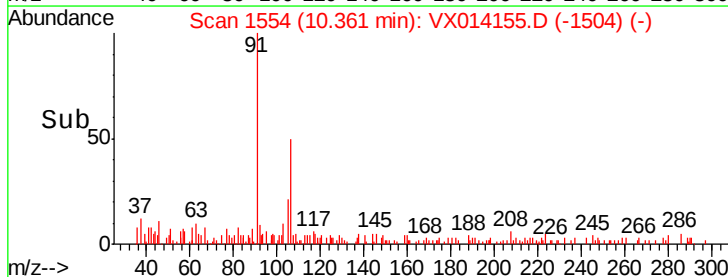
91 212.0 158.6 238.0

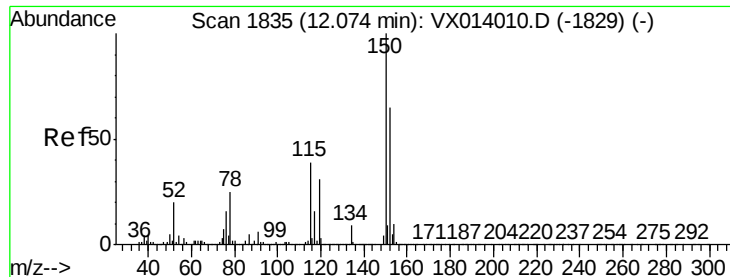


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

Time-->



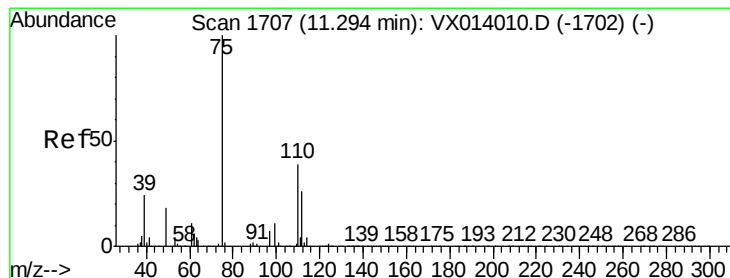
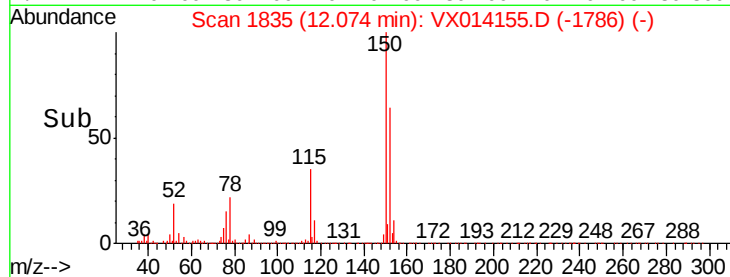
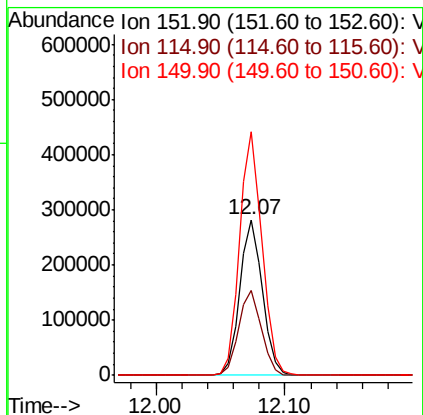
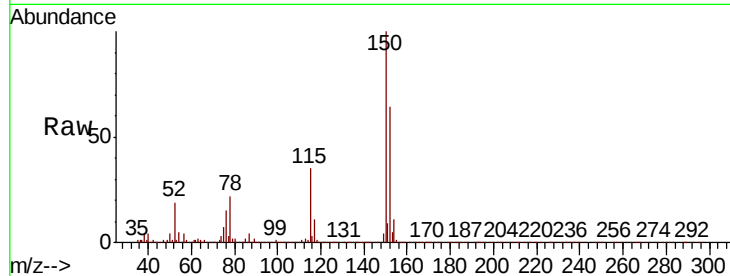


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Instrument :
MSVOA_X
ClientSampleId :

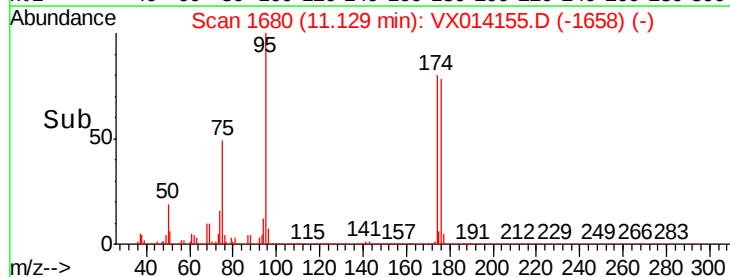
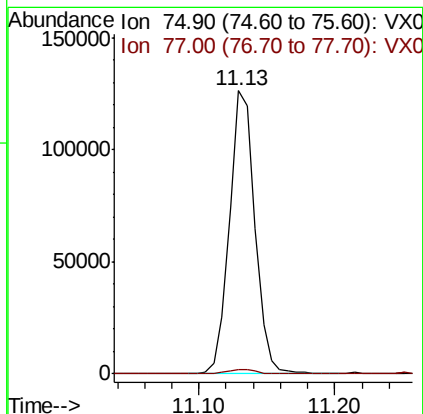
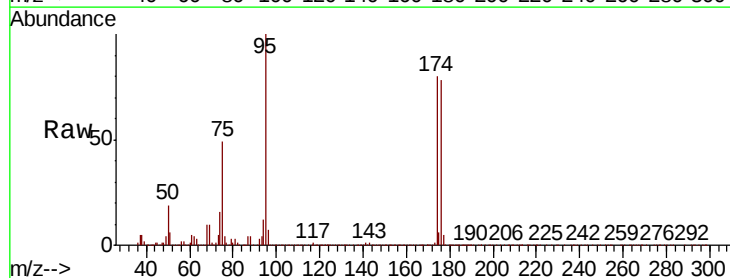
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.3	114.9
150	155.5	0.0	345.4

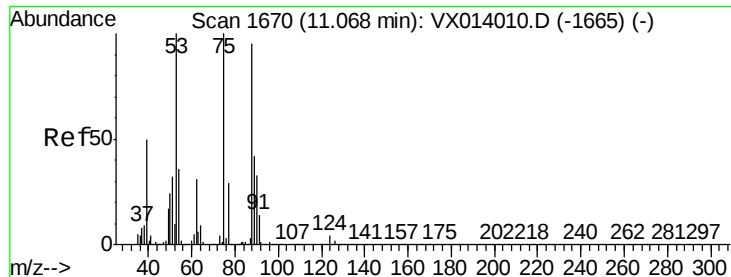


#76

1,2,3-Trichloropropane
Concen: 22.166 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014155.D
Acq: 20 Dec 2019 06:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.8	19.3	57.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.563 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014155.D

Acq: 20 Dec 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

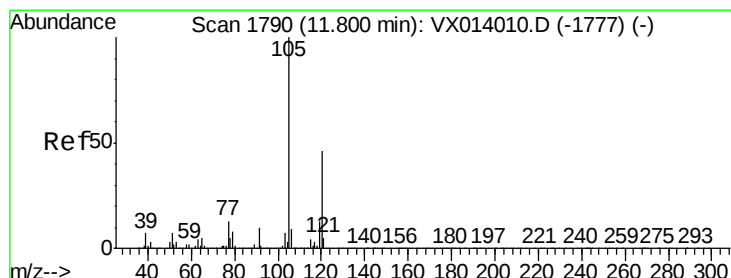
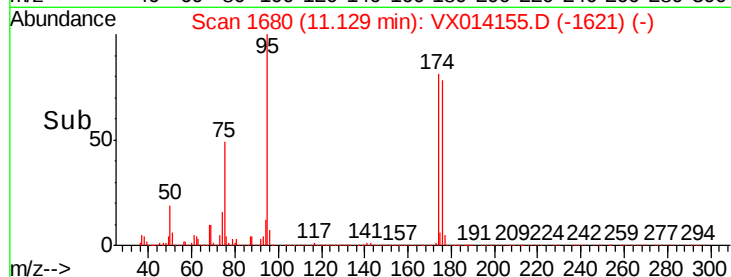
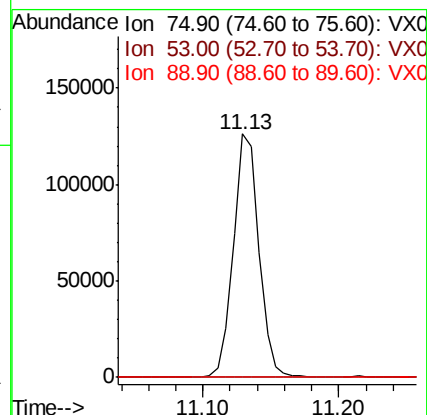
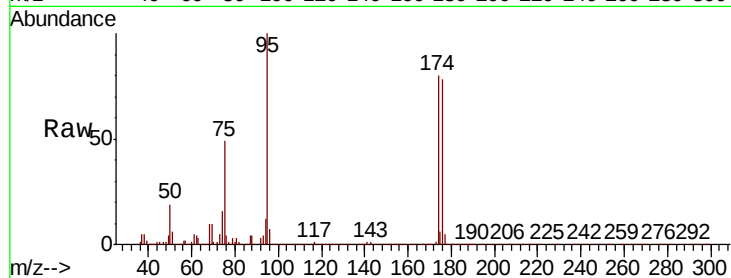
Tot Ion: 75 Resp: 164522

Ion Ratio Lower Upper

75 100

53 0.5 76.7 115.1#

89 0.2 34.6 51.8#



#84

1,2,4-Trimethylbenzene

Concen: 0.240 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX014155.D

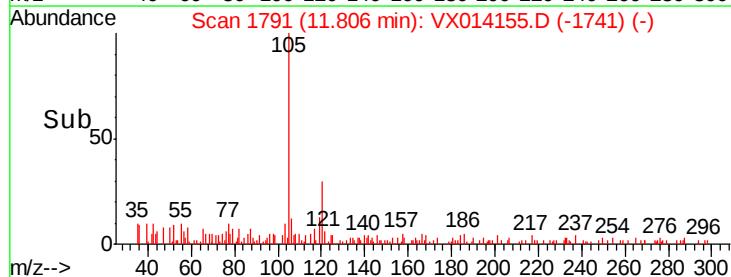
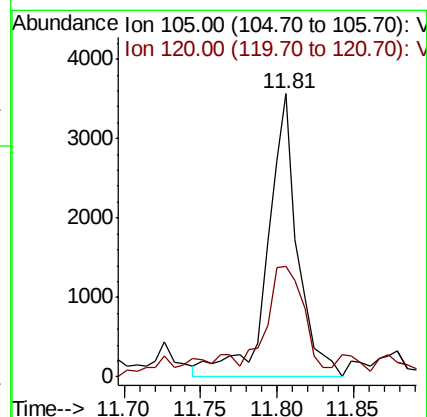
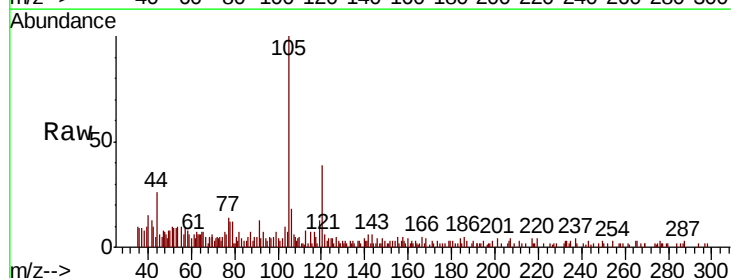
Acq: 20 Dec 2019 06:02

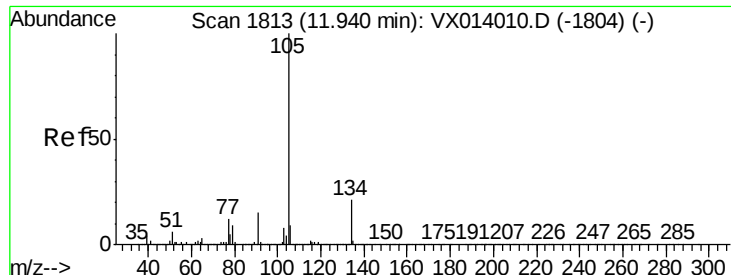
Tgt Ion: 105 Resp: 4863

Ion Ratio Lower Upper

105 100

120 49.4 23.1 69.2





#85
 sec-Butylbenzene
 Concen: 0.323 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VX014155.D
 Acq: 20 Dec 2019 06:02

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 7527
 Ion Ratio Lower Upper
 105 100
 134 18.9 10.4 31.1

