

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012841.D
 Acq On : 07 Oct 2019 16:23
 Operator : JC/SP
 Sample : K5154-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-103D

Quant Time: Oct 08 11:12:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	184678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	308170	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92120	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	119616	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	
35) Dibromofluoromethane	5.49	113	92720	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	8.71	98	364191	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
62) 4-Bromofluorobenzene	11.14	95	118212	42.54	ug/l	0.00
Spiked Amount			Recovery	=	85.08%	

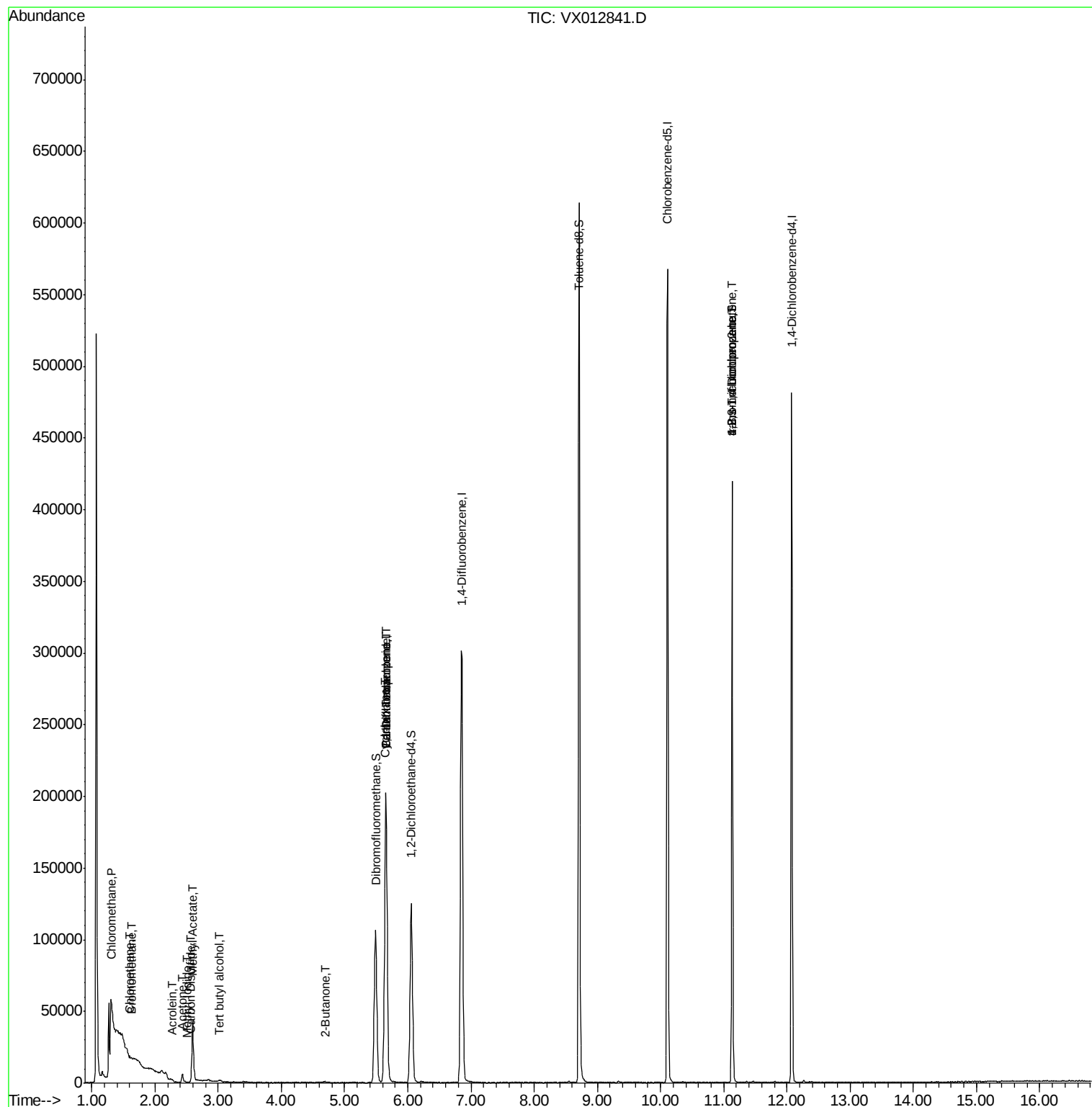
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2628	1.102	ug/l #	70
5) Bromomethane	1.64	94	368	0.395	ug/l #	54
6) Chloroethane	1.61	64	2268	1.419	ug/l #	46
10) Methyl Iodide	2.51	142	194	5.035	ug/l #	35
11) Tert butyl alcohol	3.02	59	1245	1.853	ug/l #	78
13) Acrolein	2.26	56	127	10.558	ug/l #	34
16) Acetone	2.44	43	6389	4.485	ug/l	100
17) Carbon Disulfide	2.56	76	1830	0.329	ug/l #	75
18) Methyl Acetate	2.59	43	10972	3.271	ug/l #	54
25) 2-Butanone	4.69	43	760	0.372	ug/l #	51
31) Cyclohexane	5.64	56	3935	1.051	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14708	4.951	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19587	6.491	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	59915	24.588	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	59915	70.462	ug/l #	8

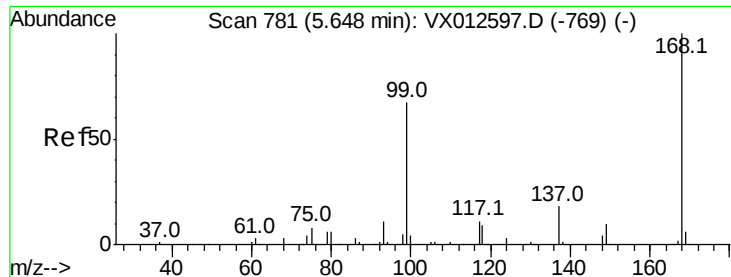
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 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: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

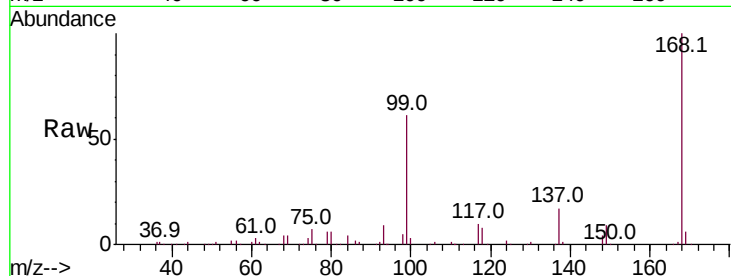
MW-103D

Tot Ion:168 Resp: 184678

Ion Ratio Lower Upper

168 100

99 61.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

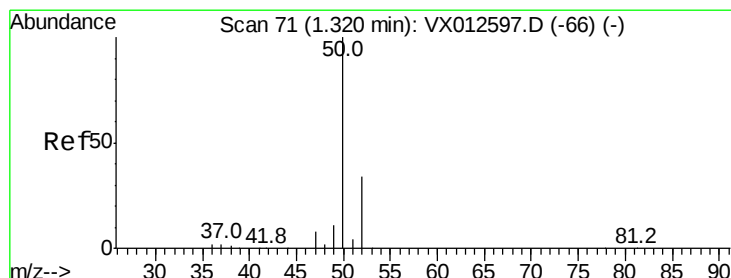
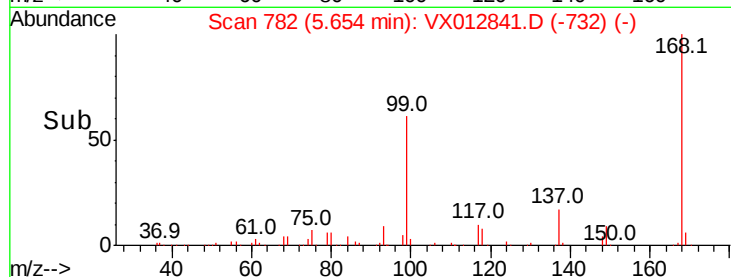
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.102 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012841.D

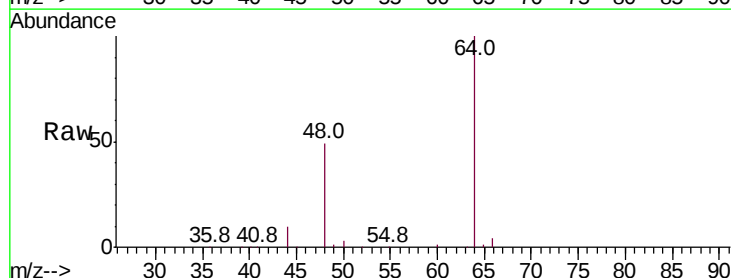
Acq: 07 Oct 2019 16:23

Tgt Ion: 50 Resp: 2628

Ion Ratio Lower Upper

50 100

52 15.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

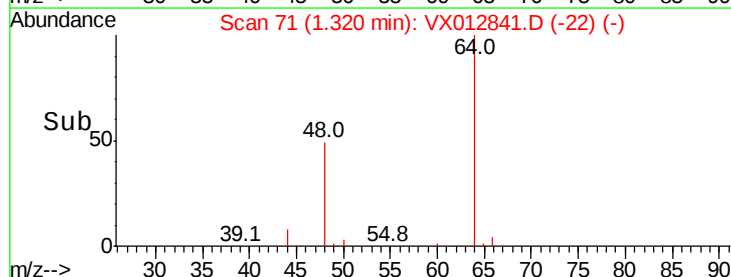
600

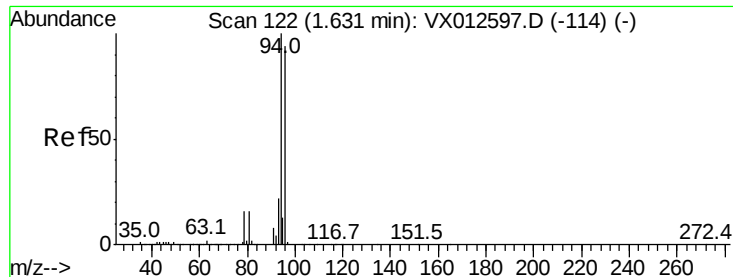
400

200

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.395 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

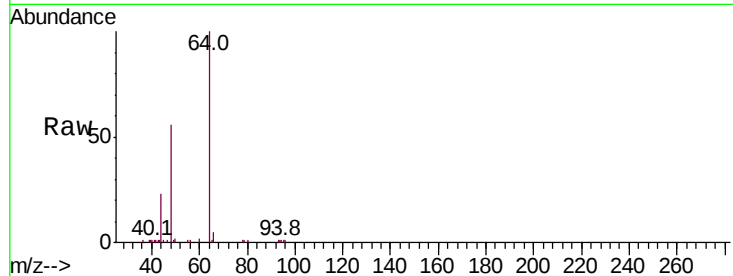
MW-103D

Tot Ion: 94 Resp: 368

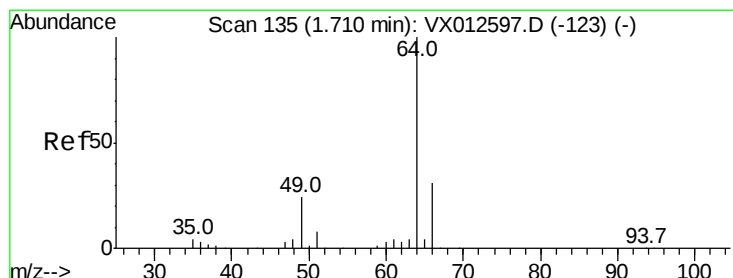
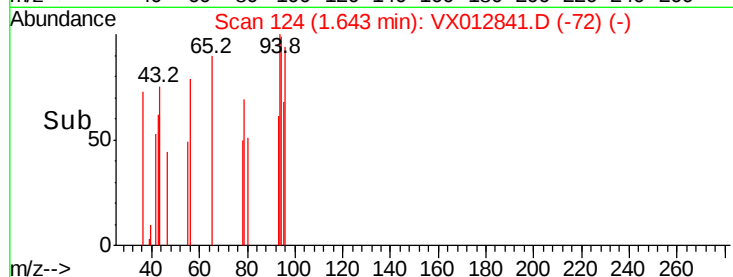
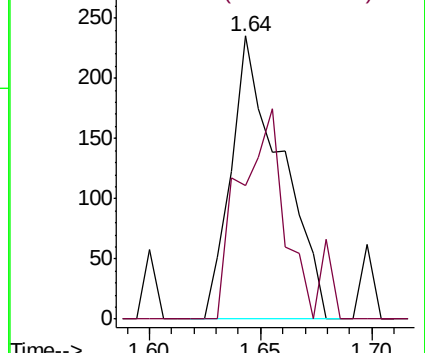
Ion Ratio Lower Upper

94 100

96 47.2 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 1.419 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.10 min

Lab File: VX012841.D

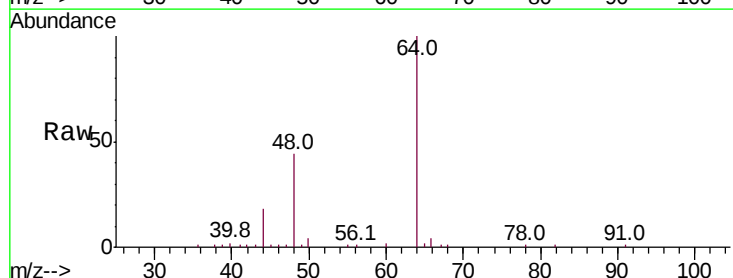
Acq: 07 Oct 2019 16:23

Tgt Ion: 64 Resp: 2268

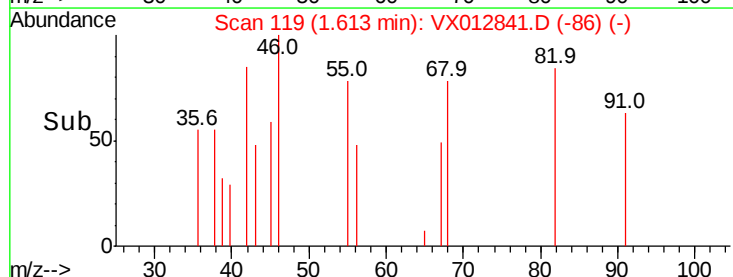
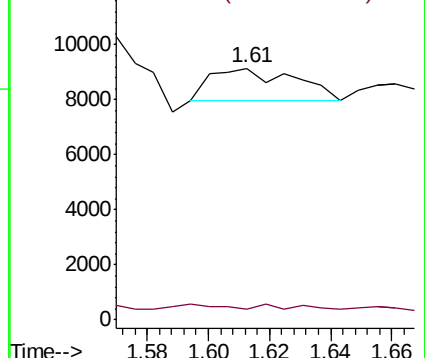
Ion Ratio Lower Upper

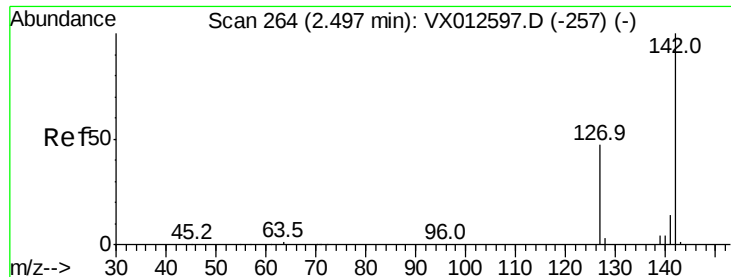
64 100

66 0.7 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

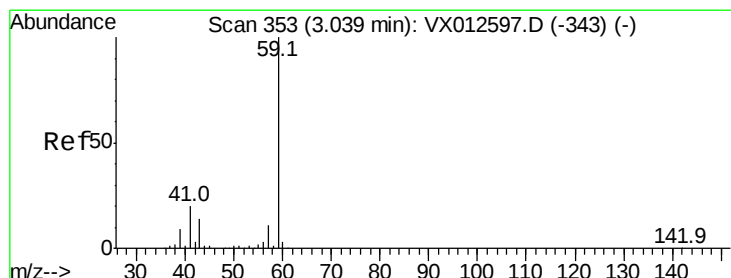
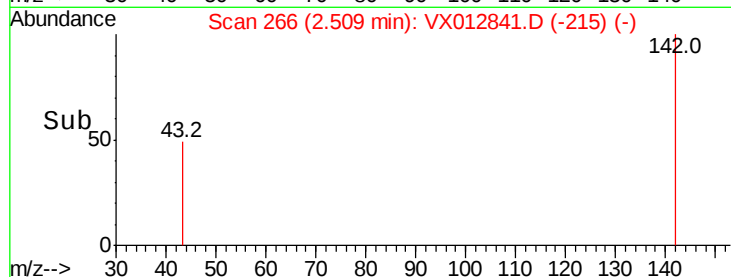
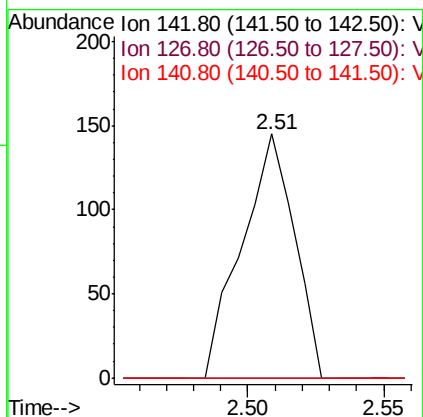
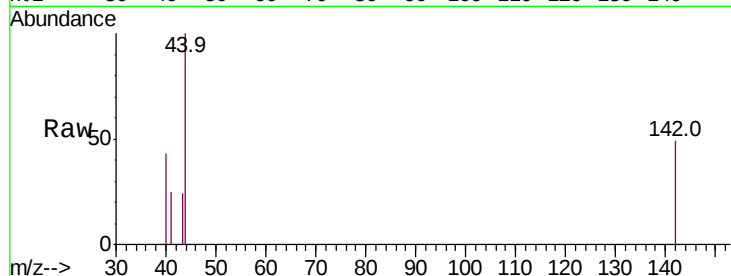




#10
Methvl Iodide
Concen: 5.035 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012841.D
Acq: 07 Oct 2019 16:23

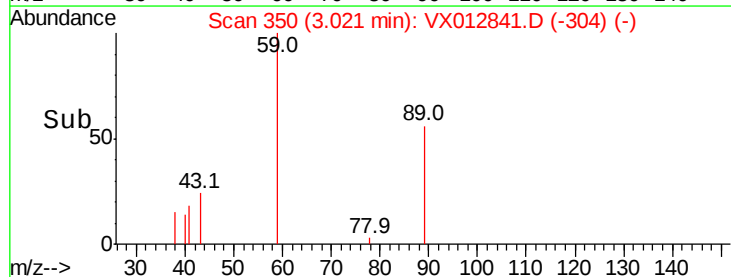
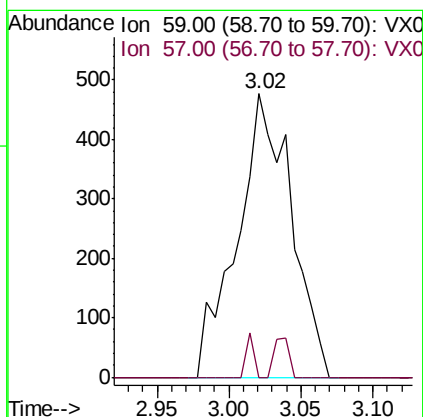
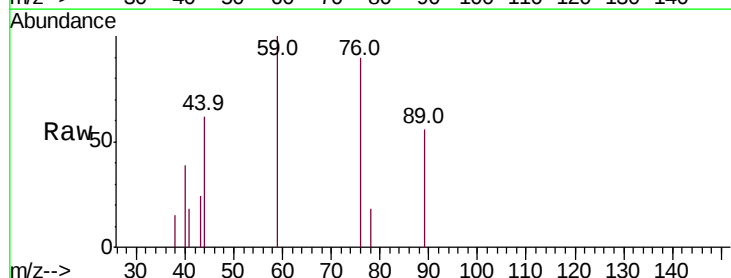
Instrument :
MSVOA_X
ClientSampleId :
MW-103D

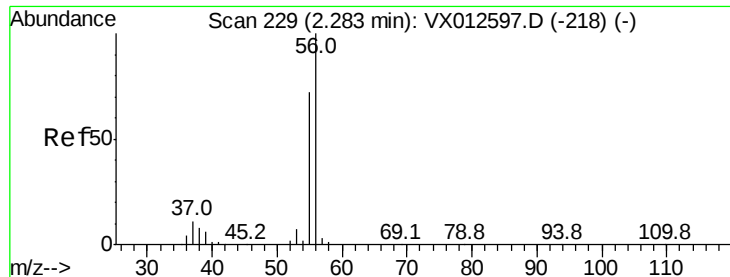
Tot Ion:142 Resp: 194
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 1.853 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX012841.D
Acq: 07 Oct 2019 16:23

Tgt Ion: 59 Resp: 1245
Ion Ratio Lower Upper
59 100
57 2.2 8.3 12.5#





#13

Acrolein

Concen: 10.558 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampled :

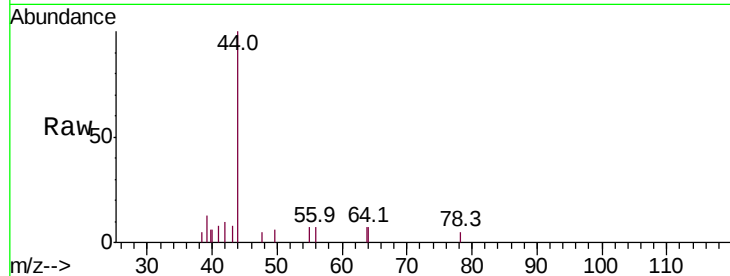
MW-103D

Tot Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 123.6 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.26

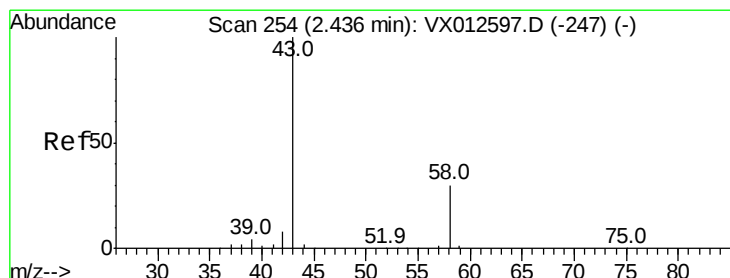
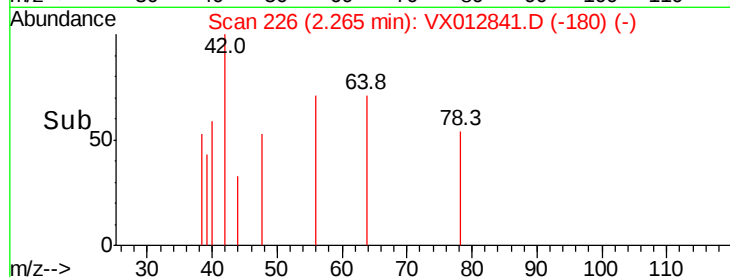
100

50

0

2.24 2.26 2.28 2.30

Time-->



#16

Acetone

Concen: 4.485 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012841.D

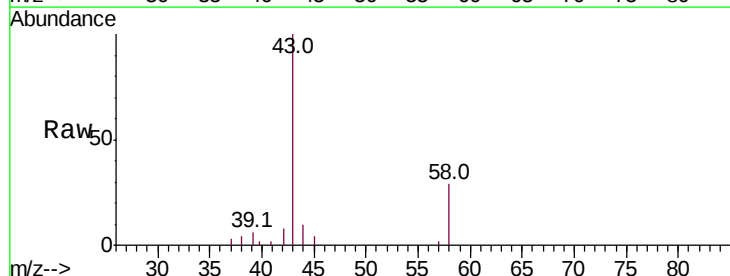
Acq: 07 Oct 2019 16:23

Tgt Ion: 43 Resp: 6389

Ion Ratio Lower Upper

43 100

58 28.9 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

4000

3000

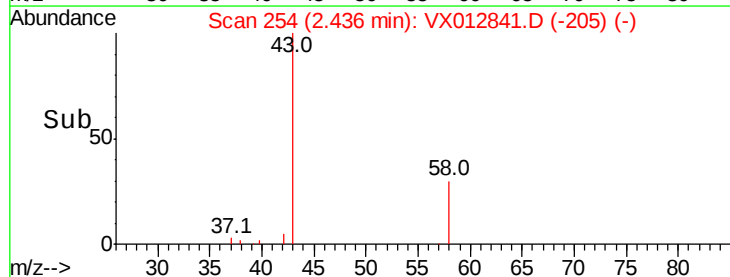
2000

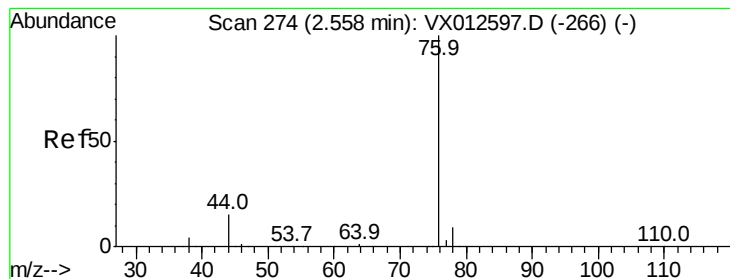
1000

0

2.35 2.40 2.45 2.50

Time-->





#17

Carbon Disulfide

Concen: 0.329 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

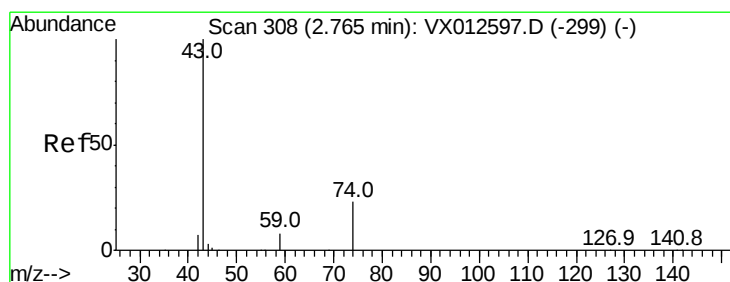
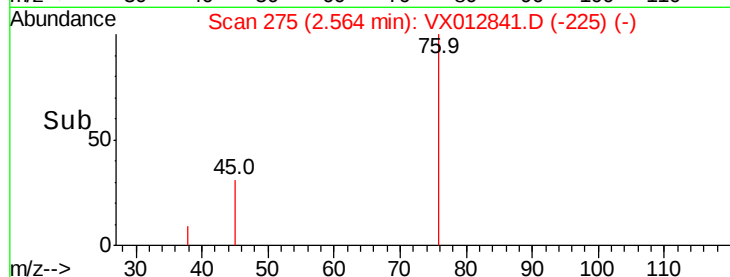
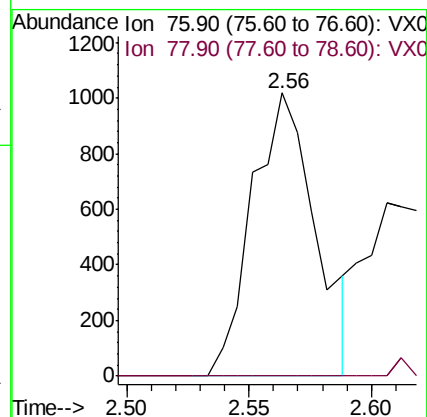
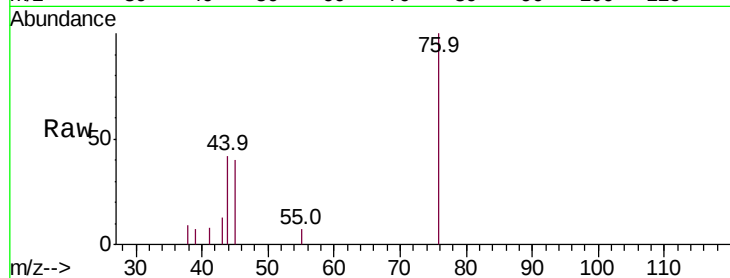
MW-103D

Tot Ion: 76 Resp: 1830

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#18

Methyl Acetate

Concen: 3.271 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012841.D

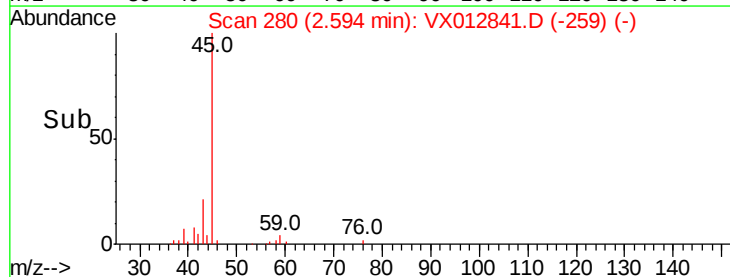
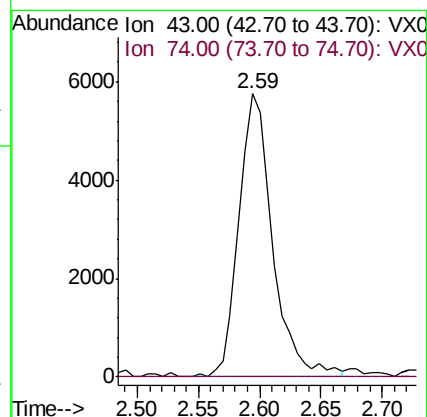
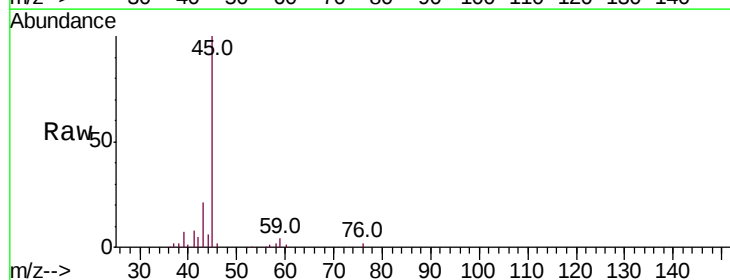
Acq: 07 Oct 2019 16:23

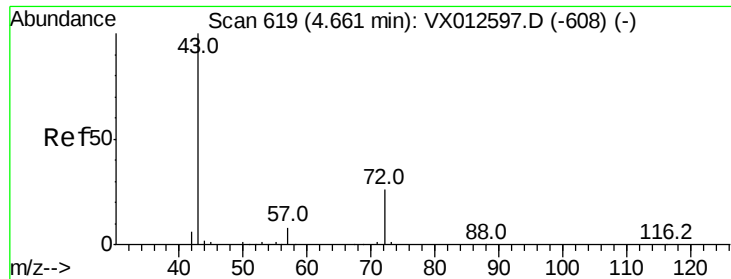
Tgt Ion: 43 Resp: 10972

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#25

2-Butanone

Concen: 0.372 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

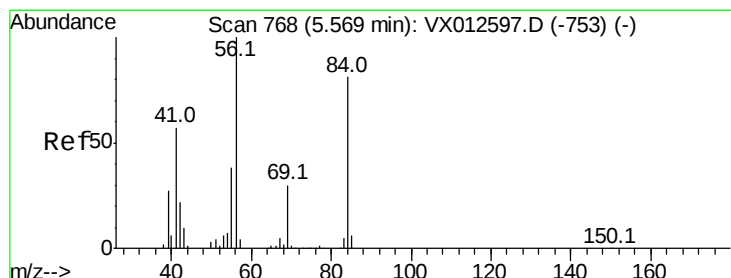
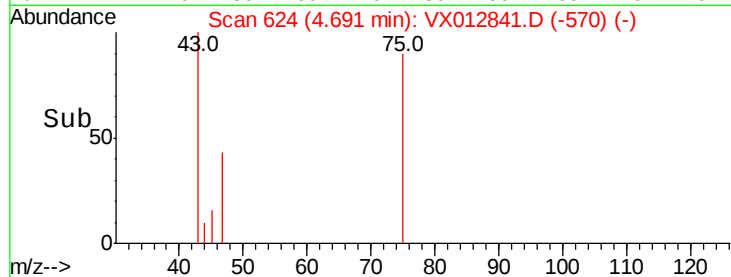
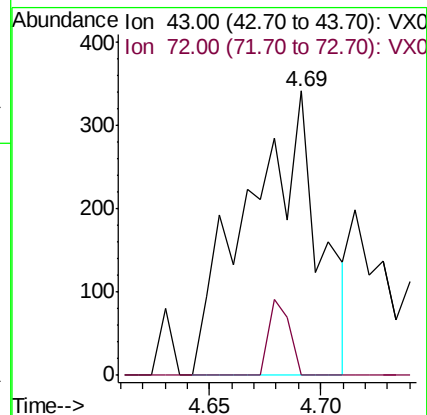
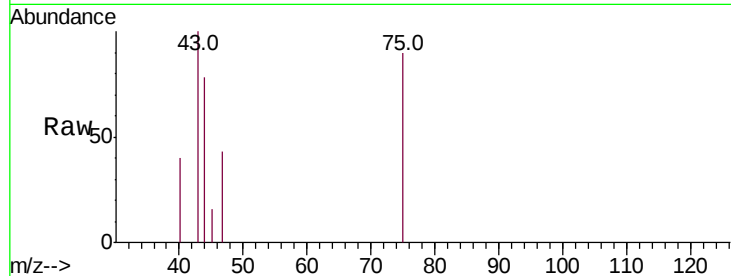
MW-103D

Tot Ion: 43 Resp: 760

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



#31

Cyclohexane

Concen: 1.051 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

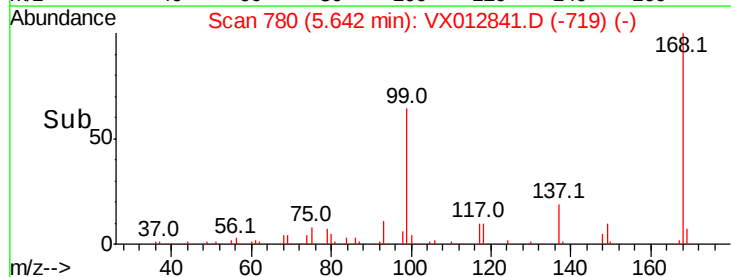
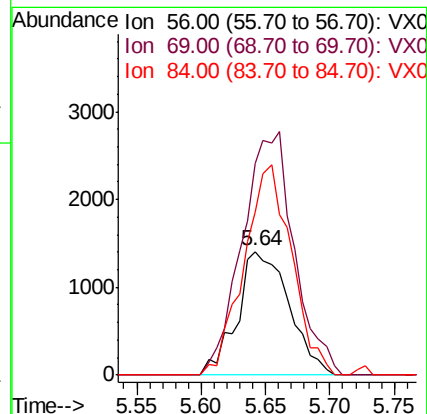
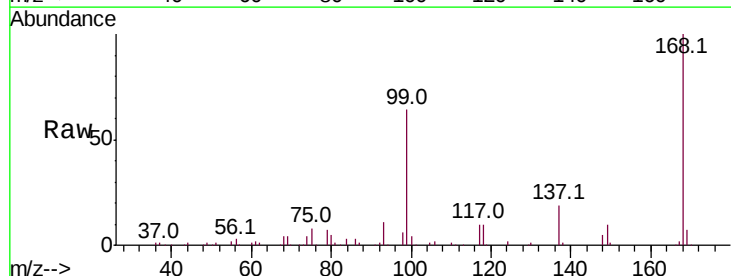
Tgt Ion: 56 Resp: 3935

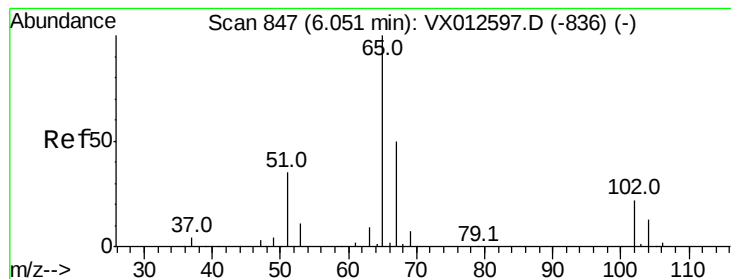
Ion Ratio Lower Upper

56 100

69 170.7 25.0 37.6#

84 131.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 44.479 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

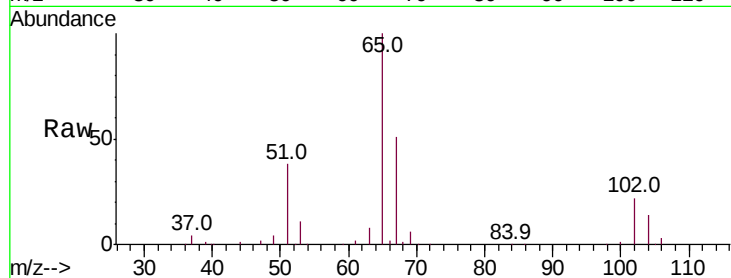
MW-103D

Tot Ion: 65 Resp: 119616

Ion Ratio Lower Upper

65 100

67 52.3 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

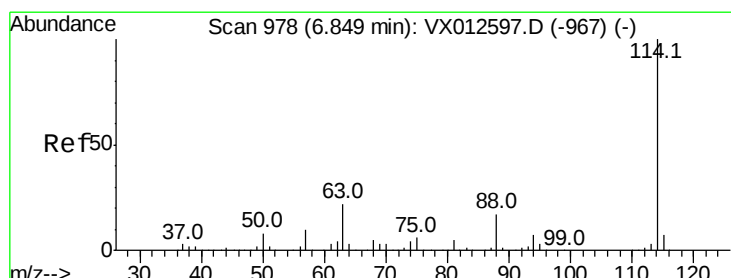
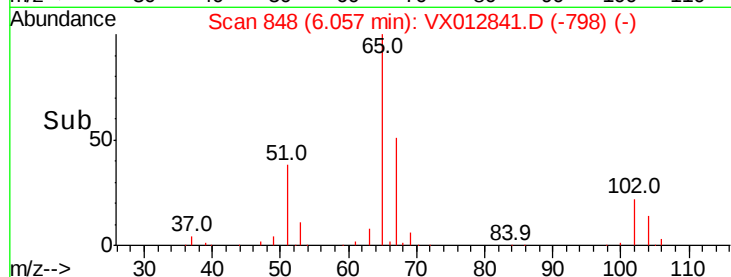
20000

10000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

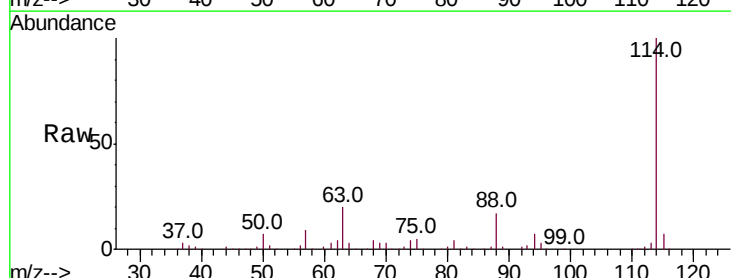
Tgt Ion: 114 Resp: 308170

Ion Ratio Lower Upper

114 100

63 19.8 0.0 43.2

88 17.1 0.0 33.2



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

150000

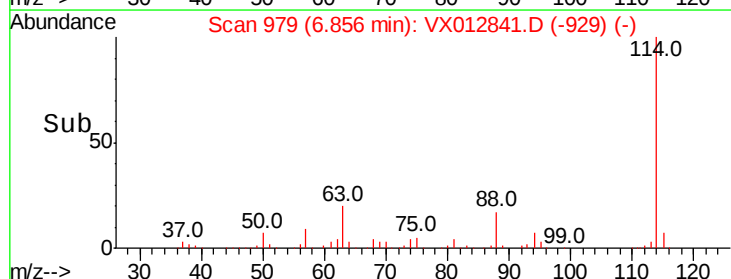
100000

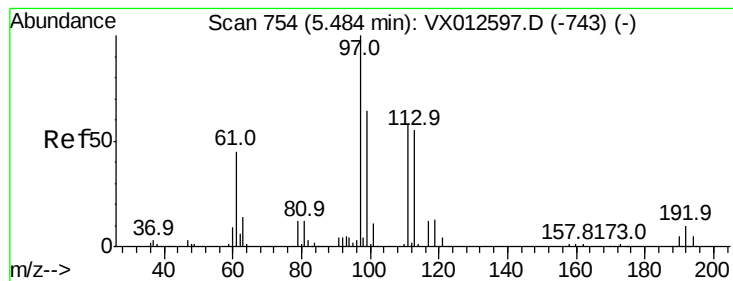
50000

0

Time-->

6.80 6.90





#35

Dibromofluoromethane

Concen: 50.521 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

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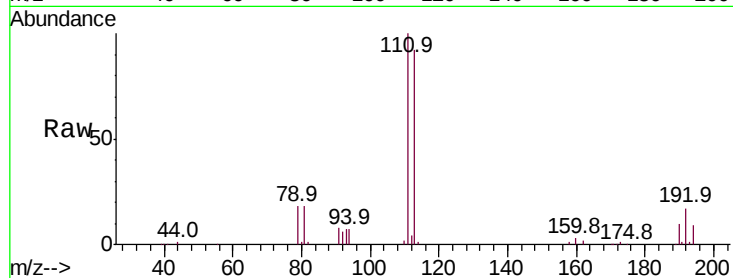
Tot Ion:113 Resp: 92720

Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.2

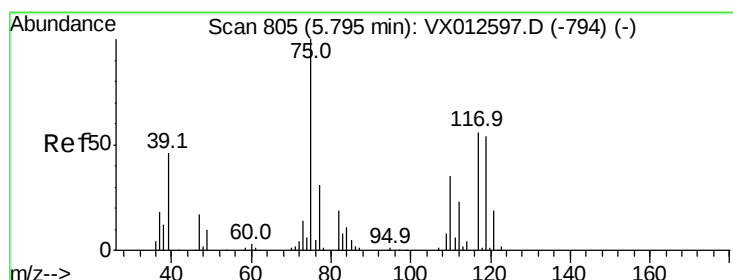
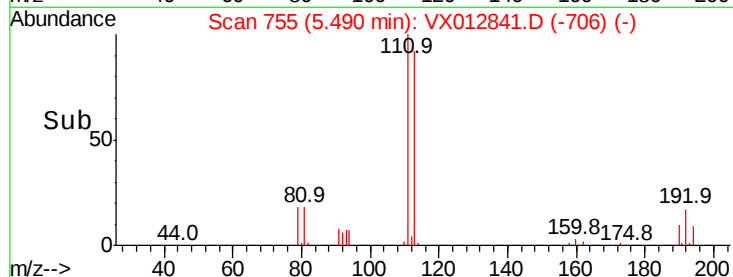
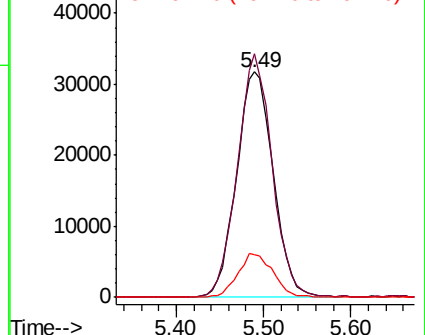
192 18.7 14.4 21.6



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: 4.951 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

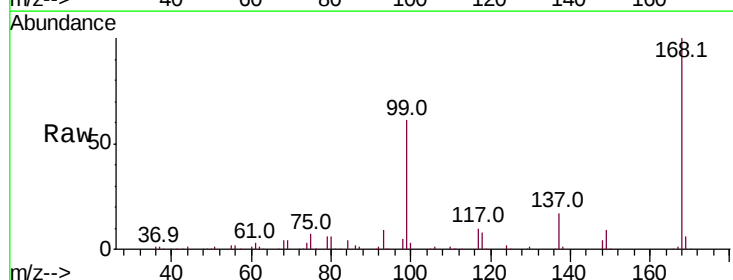
Tgt Ion: 75 Resp: 14708

Ion Ratio Lower Upper

75 100

110 9.7 16.7 50.0#

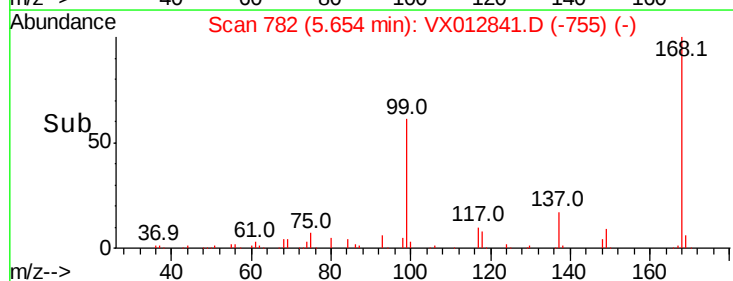
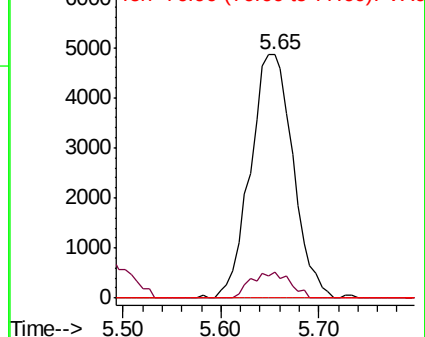
77 0.0 24.2 36.2#

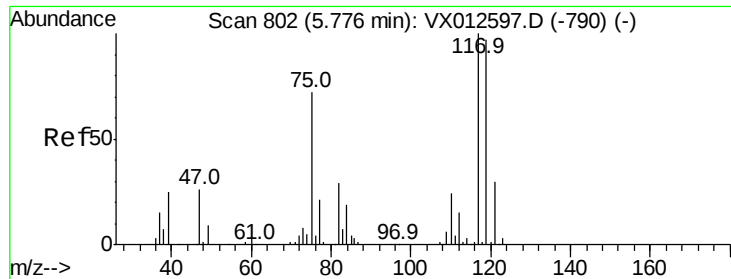


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.491 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-103D

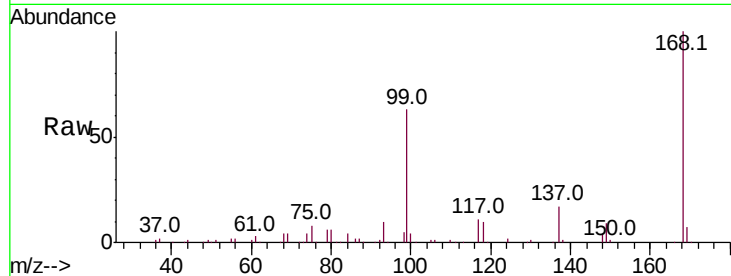
Tot Ion:117 Resp: 19587

Ion Ratio Lower Upper

117 100

119 3.8 75.7 113.5#

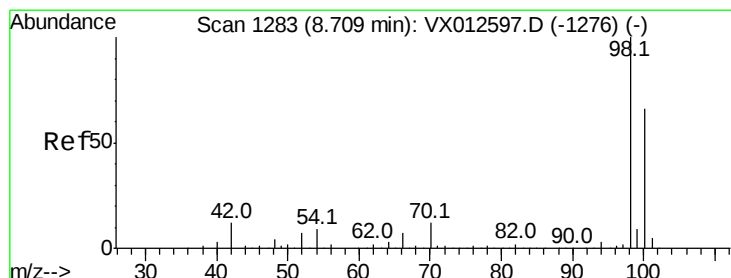
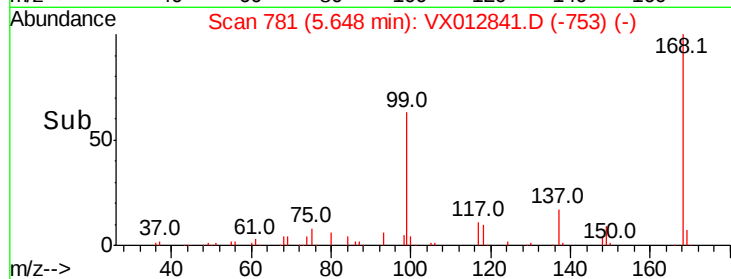
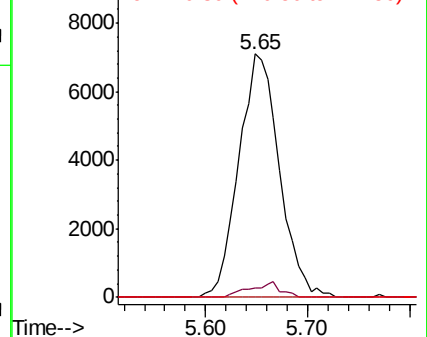
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 51.528 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012841.D

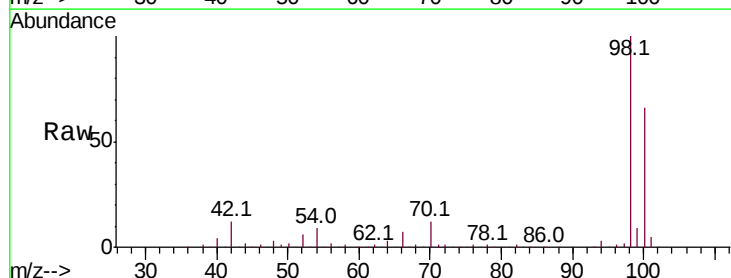
Acq: 07 Oct 2019 16:23

Tgt Ion: 98 Resp: 364191

Ion Ratio Lower Upper

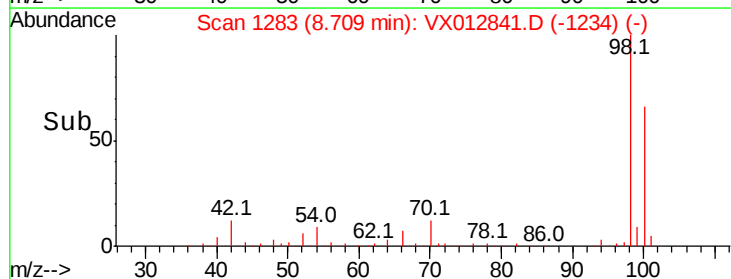
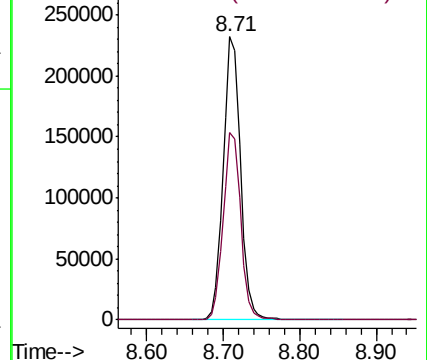
98 100

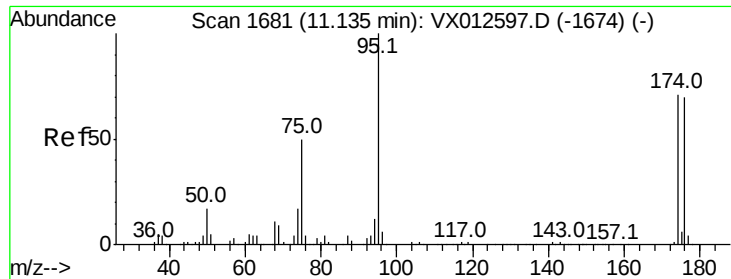
100 67.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 42.536 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-103D

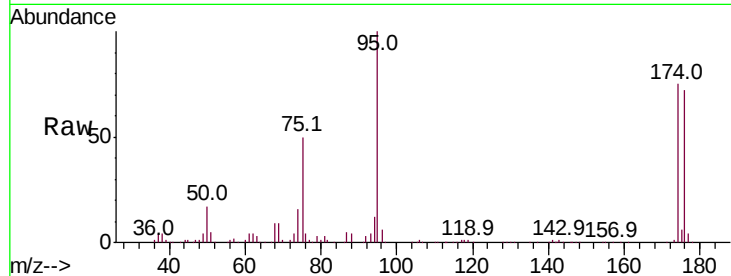
Tot Ion: 95 Resp: 118212

Ion Ratio Lower Upper

95 100

174 71.2 0.0 140.0

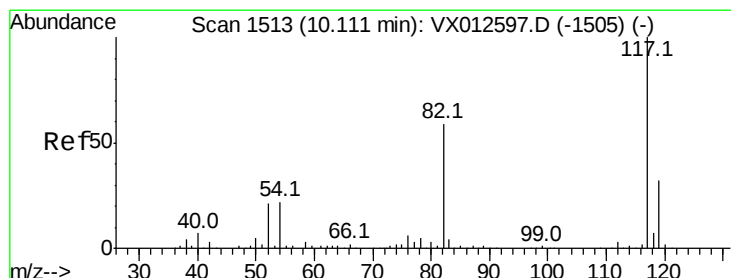
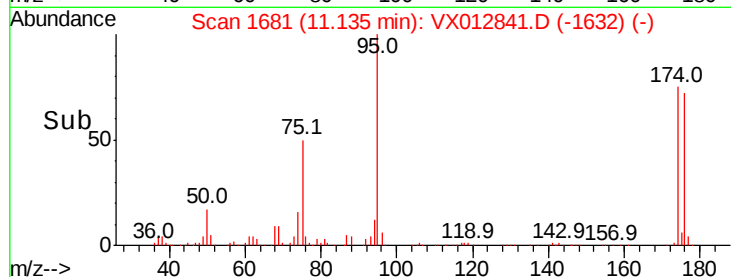
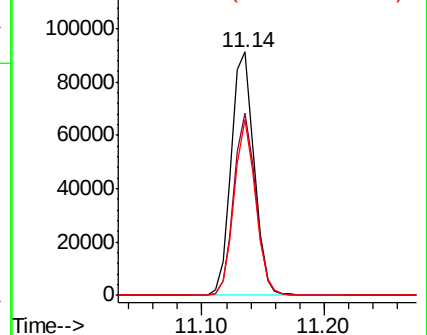
176 67.7 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012597.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012597.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012597.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

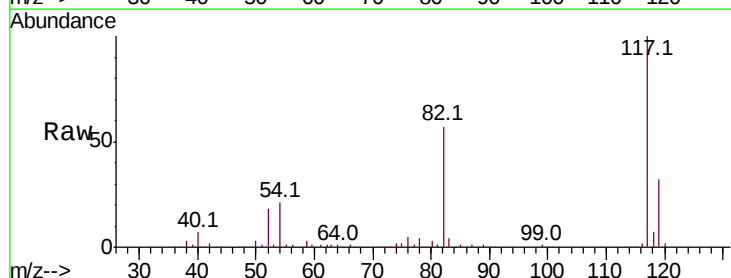
Tgt Ion: 117 Resp: 258946

Ion Ratio Lower Upper

117 100

82 56.8 45.9 68.9

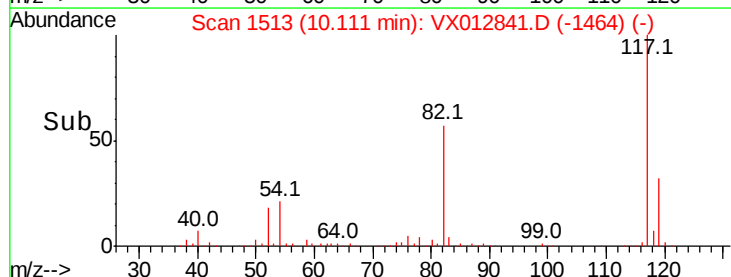
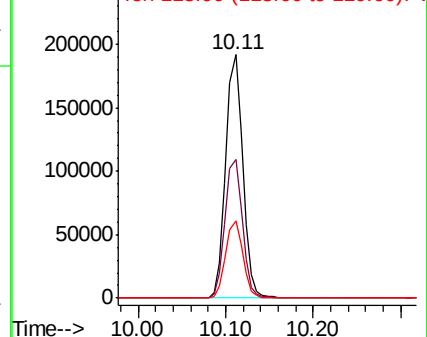
119 31.6 25.3 37.9

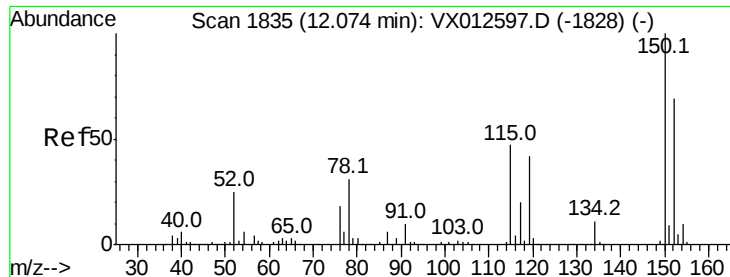


Abundance Ion 116.90 (116.60 to 117.60): VX012597.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012597.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012597.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-103D

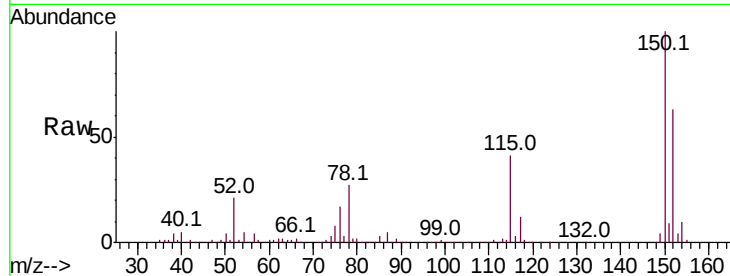
Tot Ion:152 Resp: 92120

Ion Ratio Lower Upper

152 100

115 65.1 44.1 132.3

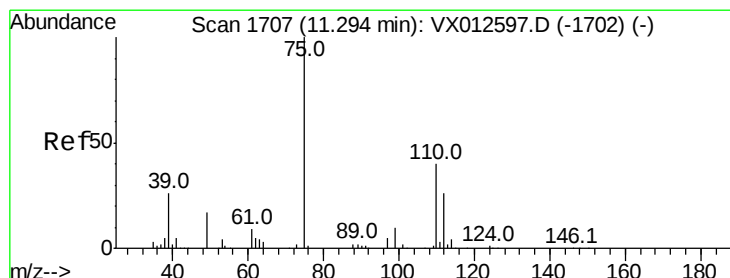
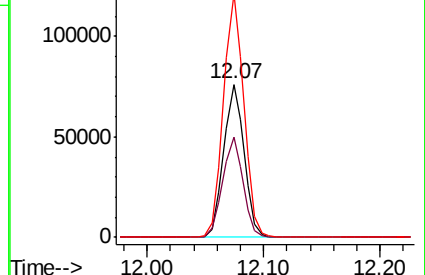
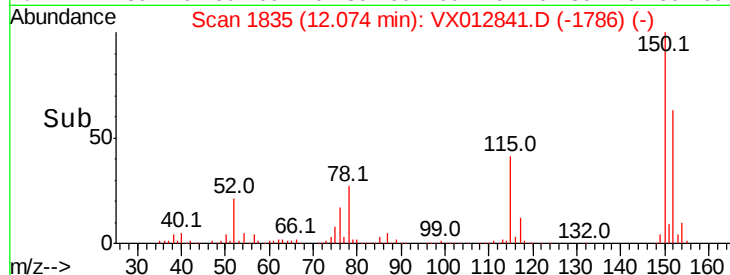
150 158.6 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.588 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012841.D

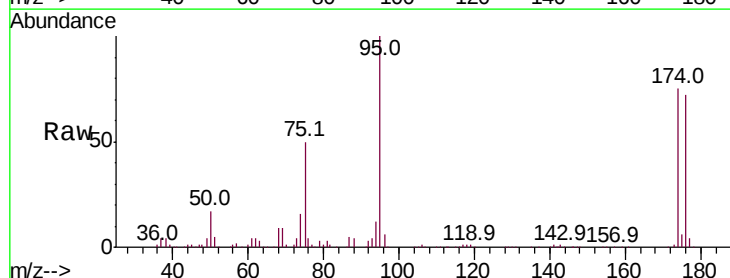
Acq: 07 Oct 2019 16:23

Tgt Ion: 75 Resp: 59915

Ion Ratio Lower Upper

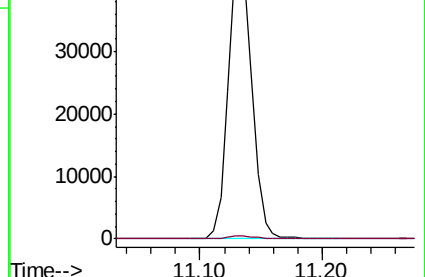
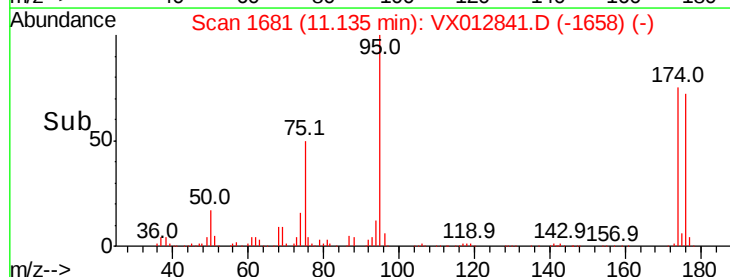
75 100

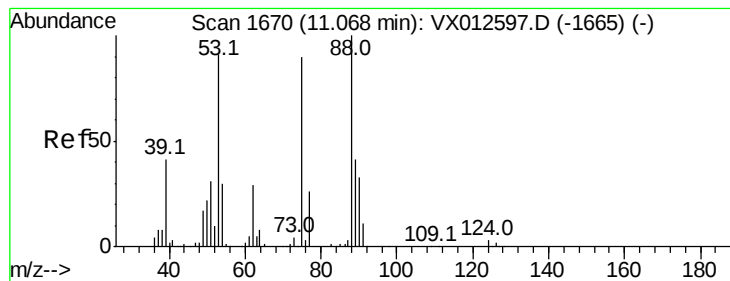
77 1.0 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.462 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012841.D

Acq: 07 Oct 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-103D

Tot Ion: 75 Resp: 59915

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

