

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070318\
 Data File : VX003153.D
 Acq On : 03 Jul 2018 17:13
 Operator : JC/MD
 Sample : J3754-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S10-0141

Quant Time: Jul 04 03:16:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	289025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	397488	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	375777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210887	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	181979	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	
35) Dibromofluoromethane	5.51	113	152236	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	8.72	98	554249	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
62) 4-Bromofluorobenzene	11.14	95	197197	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	

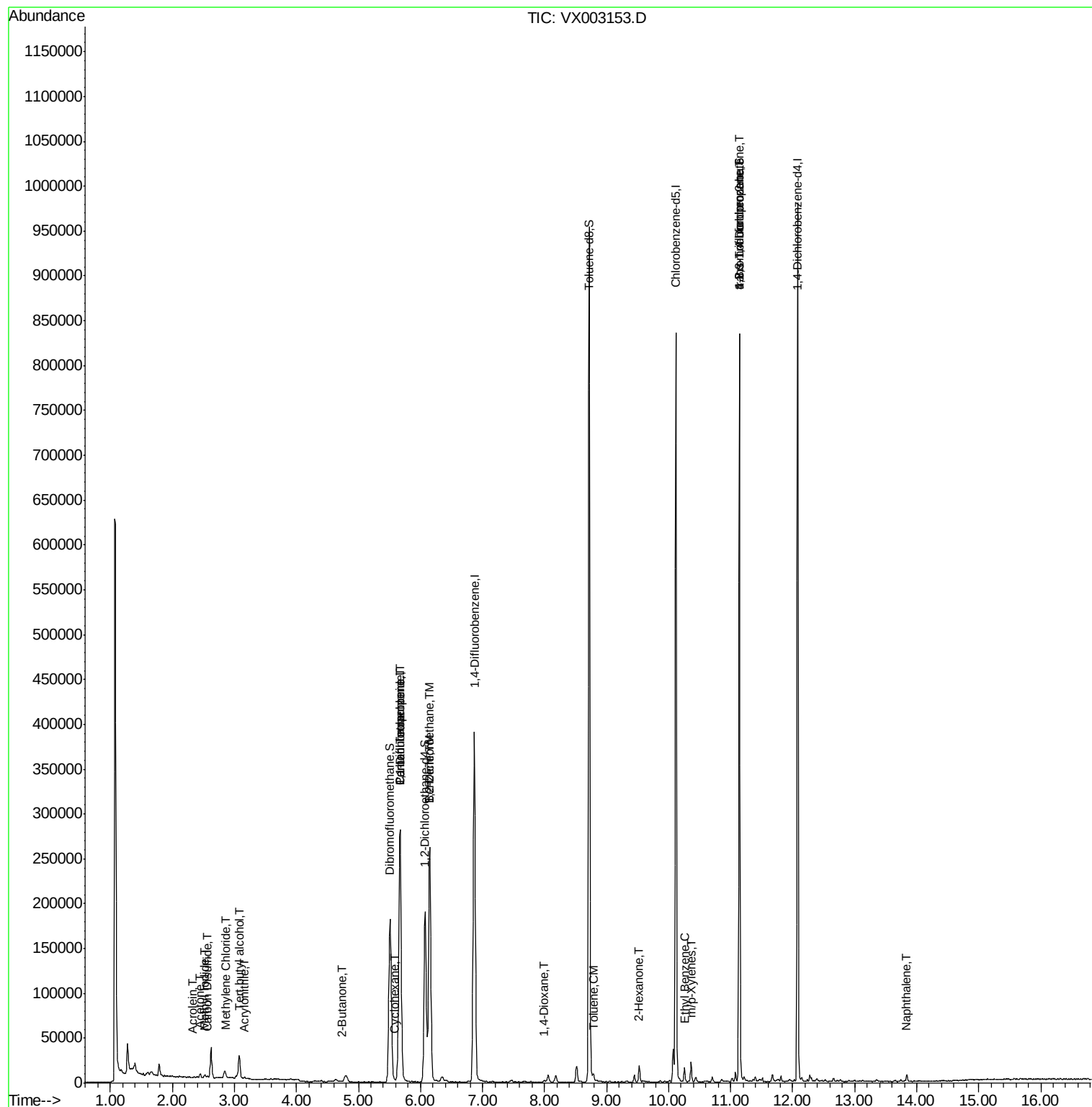
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	263	Below Cal		99
3) Chloromethane	1.33	50	931	Below Cal	#	74
5) Bromomethane	1.65	94	3017	Below Cal		89
6) Chloroethane	1.73	64	318	Below Cal	#	87
10) Methyl Iodide	2.52	142	3407	7.15	ug/l	98
11) Tert butyl alcohol	3.08	59	32925	41.37	ug/l	96
13) Acrolein	2.31	56	186	4.64	ug/l	87
15) Acrylonitrile	3.15	53	481	0.28	ug/l	# 36
16) Acetone	2.45	43	4662	2.82	ug/l	91
17) Carbon Disulfide	2.57	76	1621	0.21	ug/l	# 79
20) Methylene Chloride	2.87	84	772	0.24	ug/l	# 85
25) 2-Butanone	4.73	43	846	0.34	ug/l	99
31) Cyclohexane	5.58	56	1394	0.28	ug/l	# 91
36) 1,1-Dichloropropene	5.67	75	18798	4.31	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	24918	5.21	ug/l	# 17
40) Benzene	6.15	78	308538	24.36	ug/l	98
42) 1,2-Dichloroethane	6.15	62	2558	0.50	ug/l	# 77
49) 1,4-Dioxane	7.99	88	19	0.24	ug/l	# 1
52) Toluene	8.79	92	1947	0.24	ug/l	97
59) 2-Hexanone	9.52	43	1311	0.35	ug/l	100
67) Ethyl Benzene	10.26	91	8161	0.52	ug/l	97
68) m/p-Xylenes	10.37	106	5077	0.84	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	99276	25.99	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	99276	73.70	ug/l	# 7
95) Naphthalene	13.84	128	4448	0.31	ug/l	99

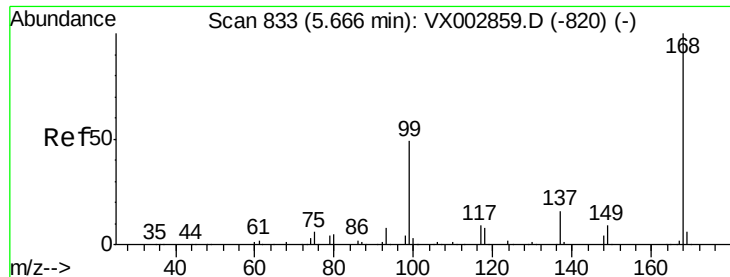
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070318\
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Quant Time: Jul 04 03:16:49 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

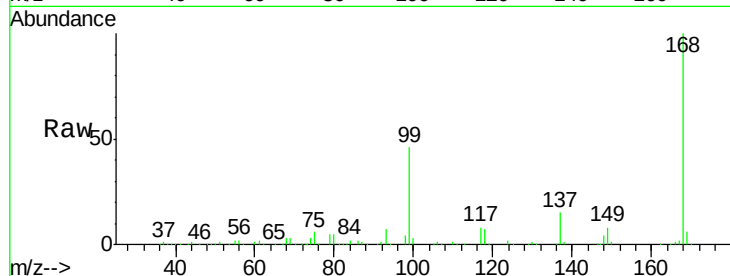
S10-0141

Tot Ion:168 Resp: 289025

Ion Ratio Lower Upper

168 100

99 45.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

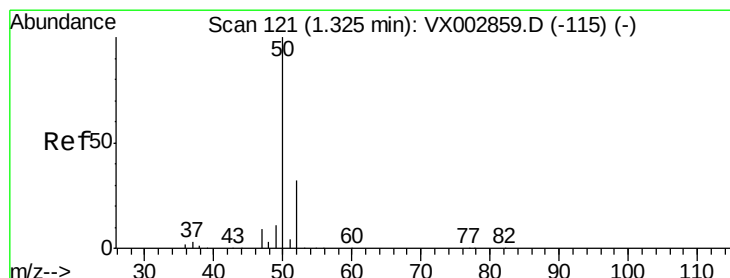
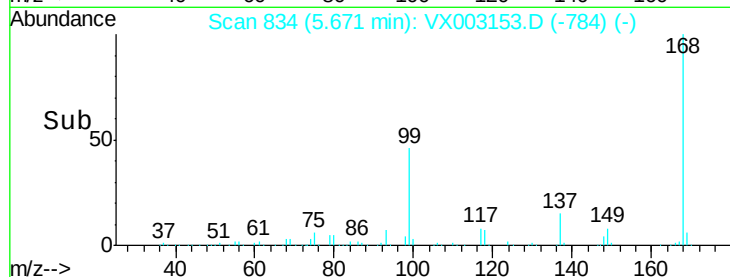
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003153.D

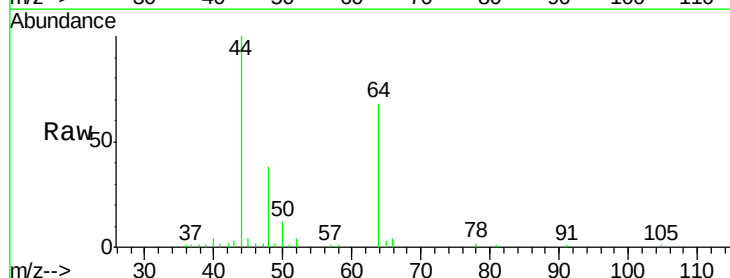
Acq: 03 Jul 2018 17:13

Tgt Ion: 50 Resp: 931

Ion Ratio Lower Upper

50 100

52 46.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

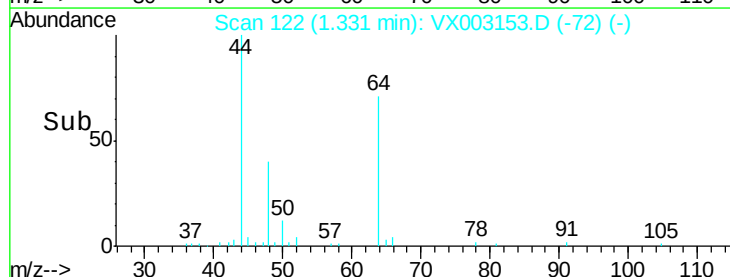
600

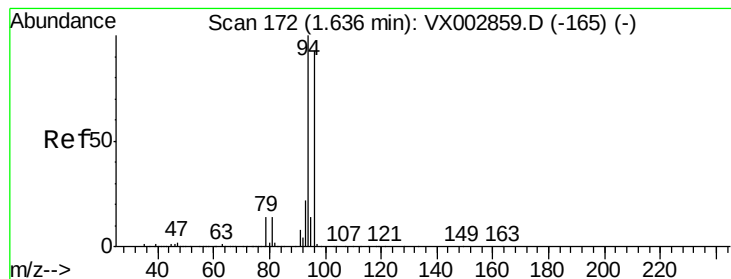
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampled :

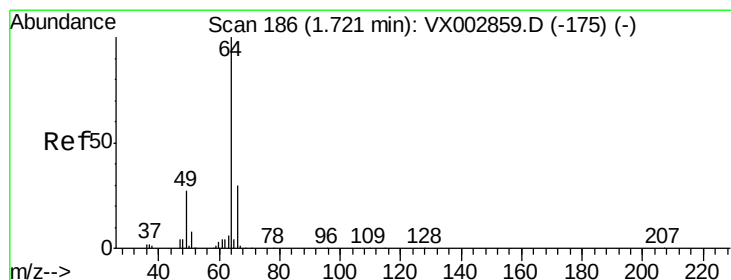
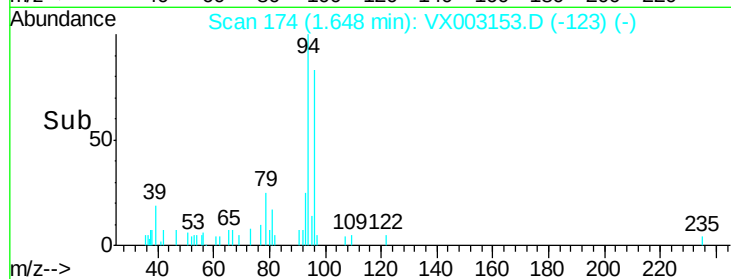
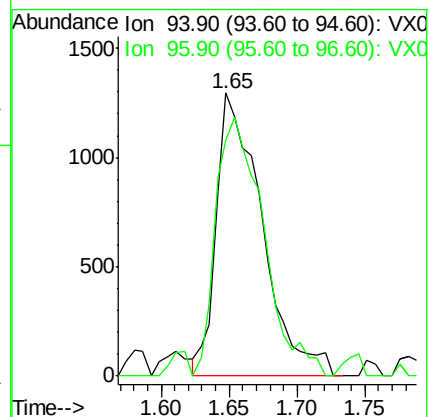
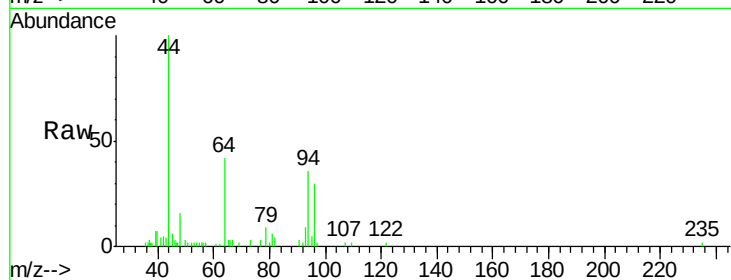
S10-0141

Tot Ion: 94 Resp: 3017

Ion Ratio Lower Upper

94 100

96 83.3 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX003153.D

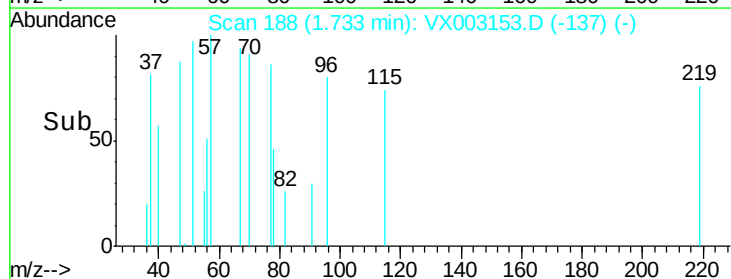
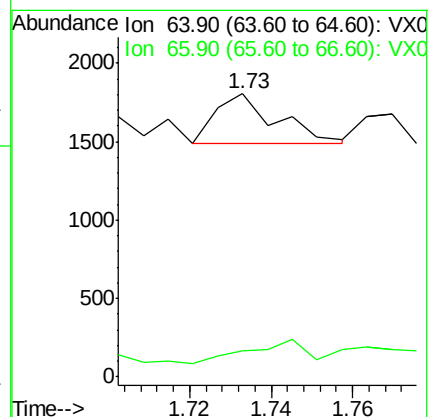
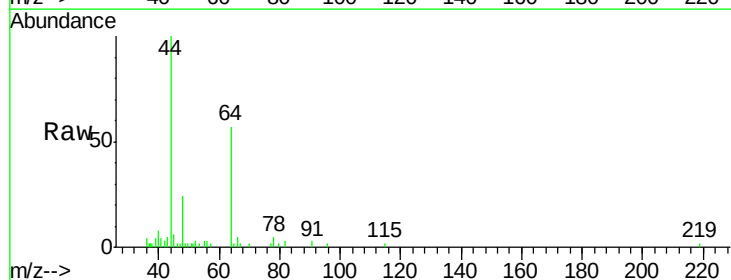
Acq: 03 Jul 2018 17:13

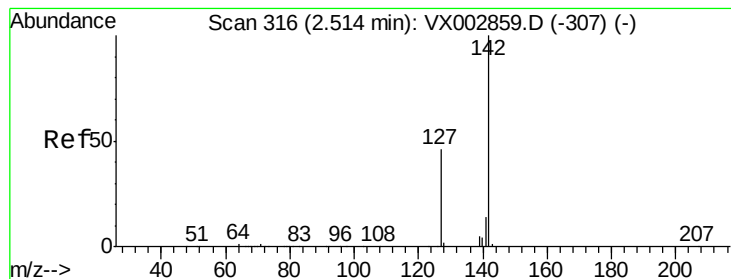
Tgt Ion: 64 Resp: 318

Ion Ratio Lower Upper

64 100

66 24.6 25.5 38.3#





#10

Methvl Iodide

Concen: 7.15 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

S10-0141

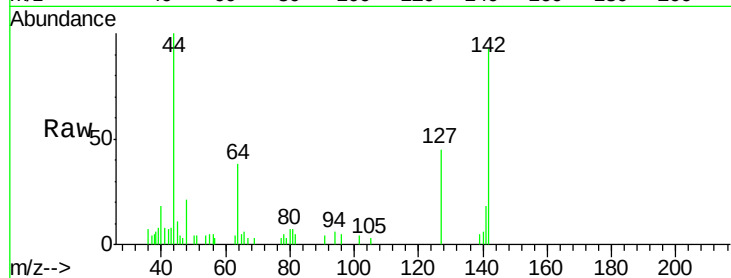
Tot Ion:142 Resp: 3407

Ion Ratio Lower Upper

142 100

127 46.3 36.6 55.0

141 16.8 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

2.52

1500

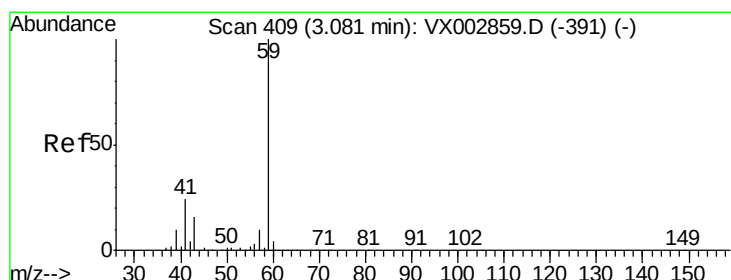
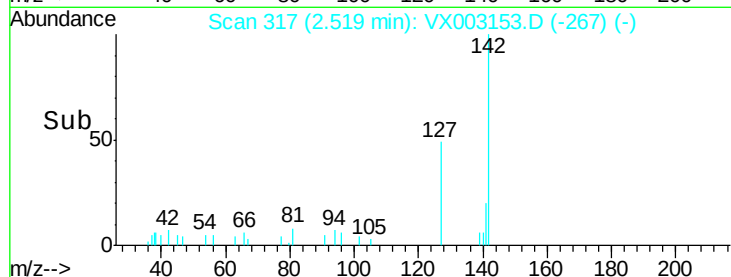
1000

500

0

2.45 2.50 2.55 2.60

Time-->



#11

Tert butyl alcohol

Concen: 41.37 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.00 min

Lab File: VX003153.D

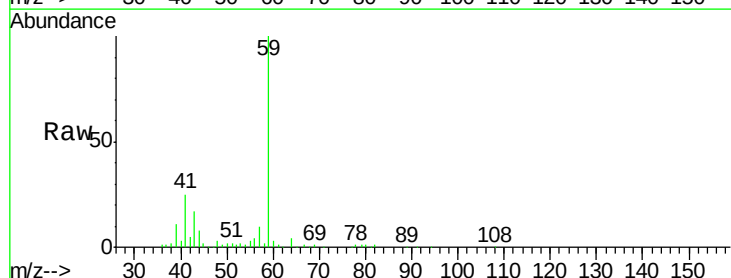
Acq: 03 Jul 2018 17:13

Tgt Ion: 59 Resp: 32925

Ion Ratio Lower Upper

59 100

57 11.6 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

15000

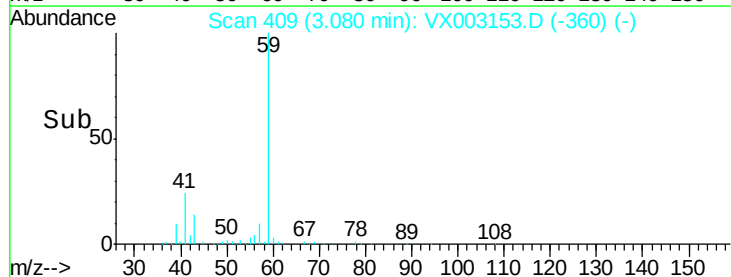
10000

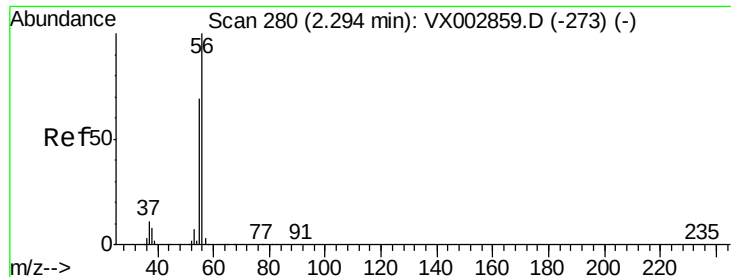
5000

0

2.90 3.00 3.10 3.20

Time-->





#13

Acrolein

Concen: 4.64 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampled :

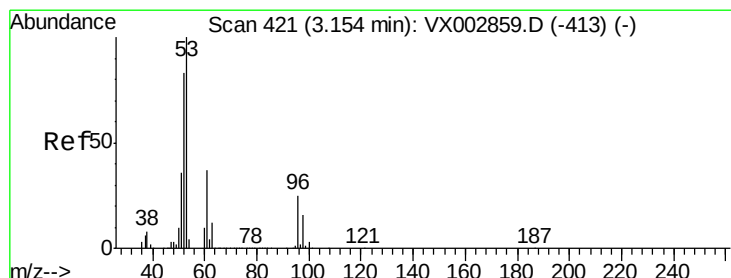
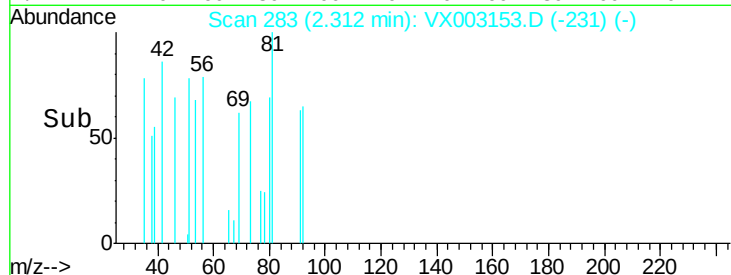
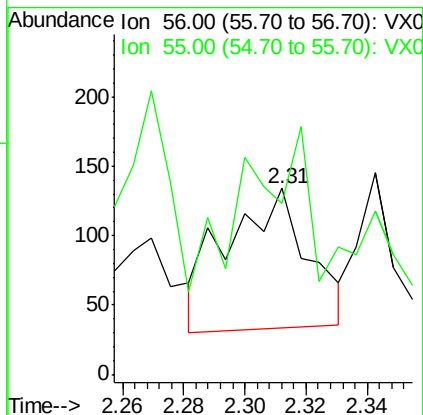
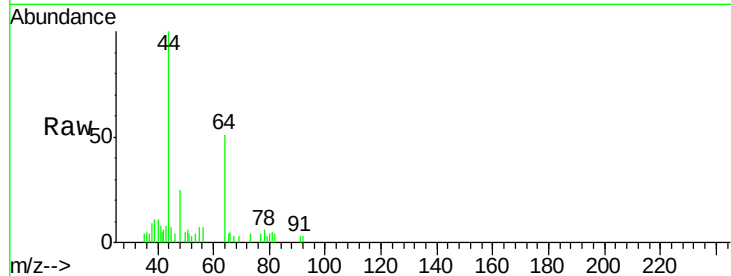
S10-0141

Tot Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 60.2 57.0 85.4



#15

Acrylonitrile

Concen: 0.28 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

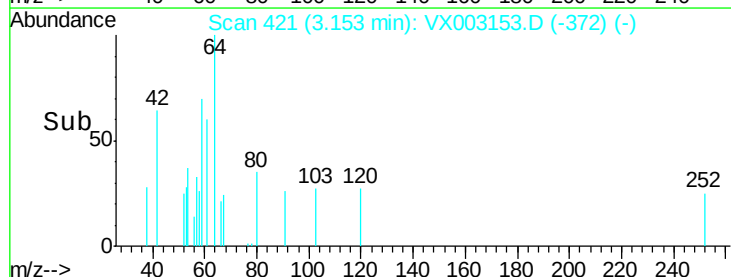
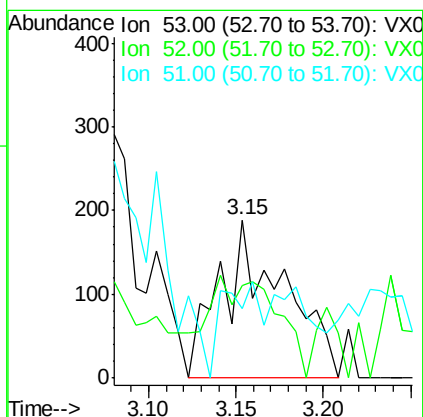
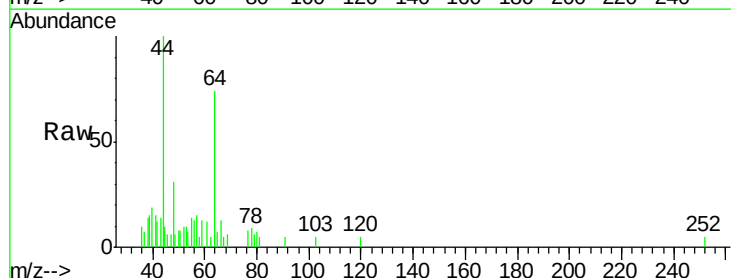
Tgt Ion: 53 Resp: 481

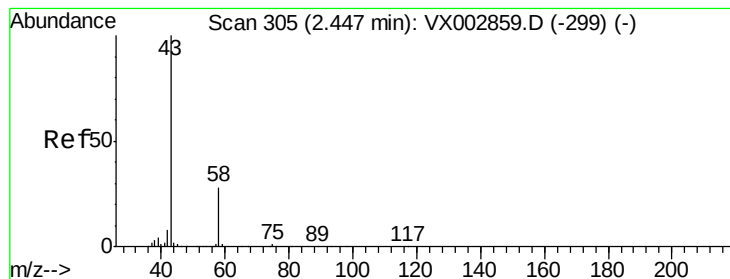
Ion Ratio Lower Upper

53 100

52 10.6 66.7 100.1#

51 21.8 29.9 44.9#





#16

Acetone

Concen: 2.82 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

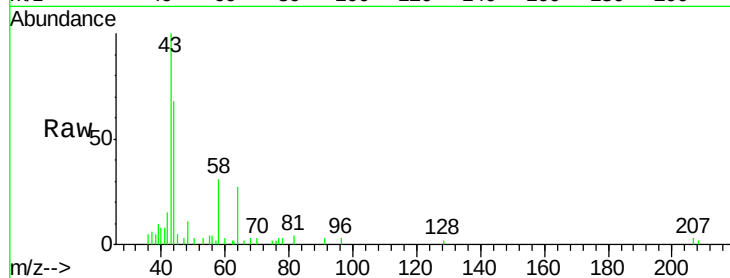
S10-0141

Tot Ion: 43 Resp: 4662

Ion Ratio Lower Upper

43 100

58 32.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

2500

2000

1500

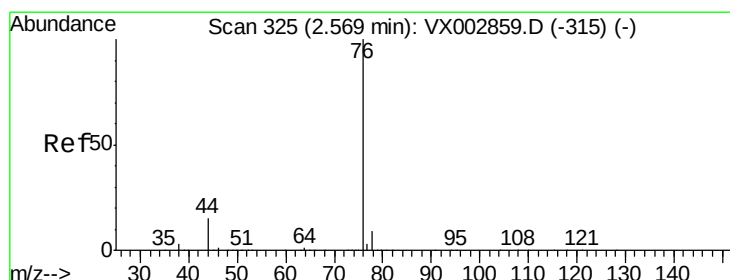
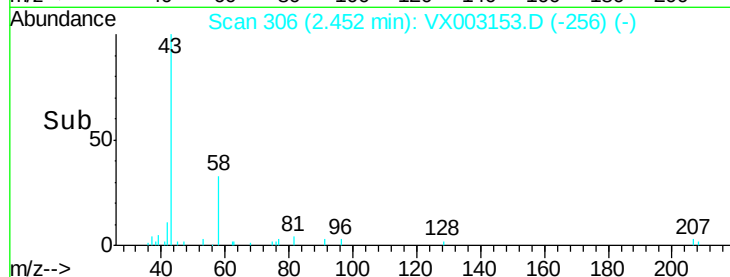
1000

500

0

Time-->

2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003153.D

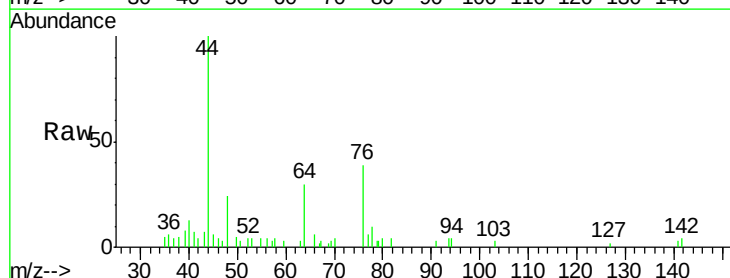
Acq: 03 Jul 2018 17:13

Tgt Ion: 76 Resp: 1621

Ion Ratio Lower Upper

76 100

78 16.1 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

600

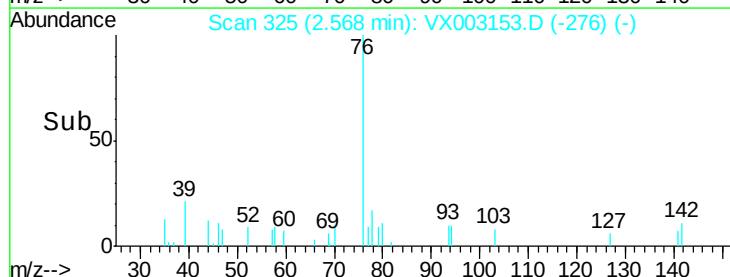
400

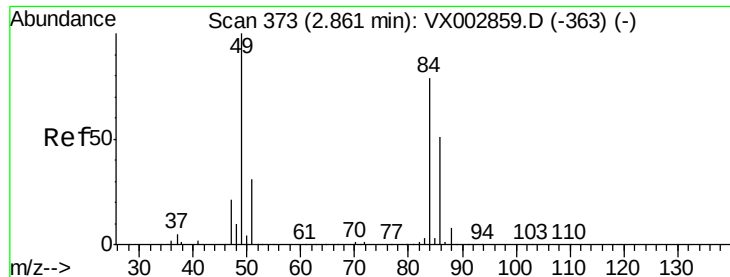
200

0

Time-->

2.50 2.55 2.60

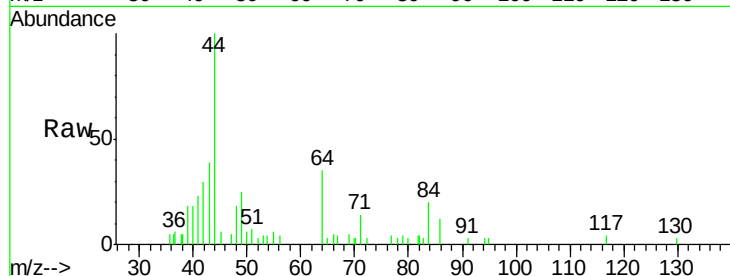




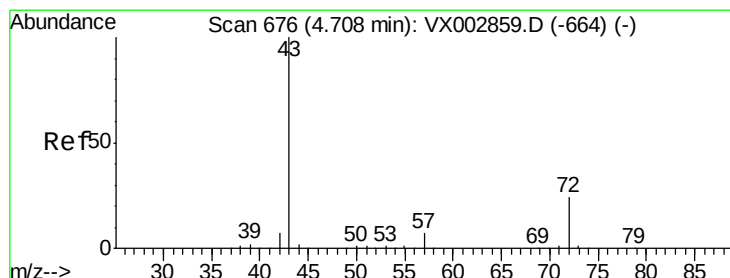
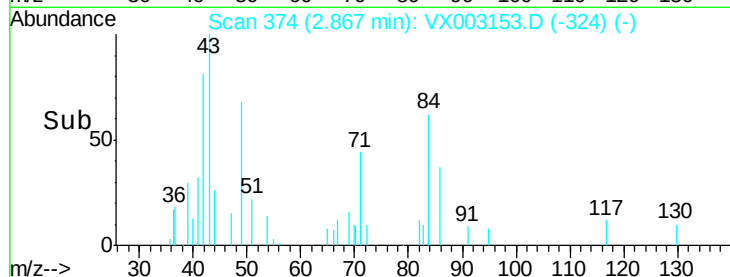
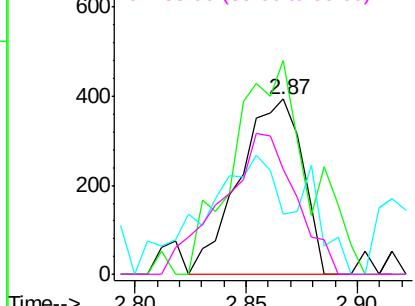
#20
Methylene Chloride
Concen: 0.24 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX003153.D
Acq: 03 Jul 2018 17:13

Instrument :
MSVOA_X
ClientSampled :
S10-0141

Tot Ion: 84 Resp: 772
Ion Ratio Lower Upper
84 100
49 122.1 107.8 161.6
51 13.5 32.8 49.2#
86 59.8 52.5 78.7

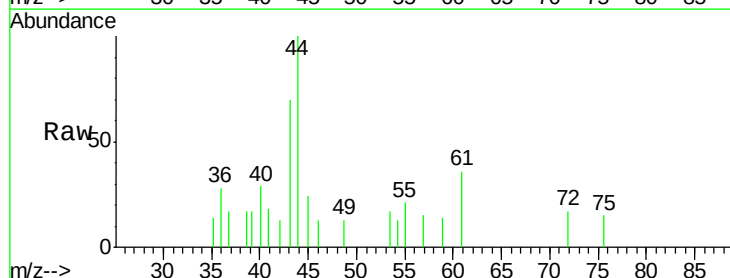


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

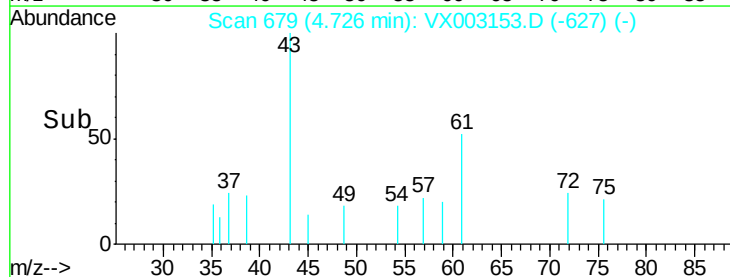
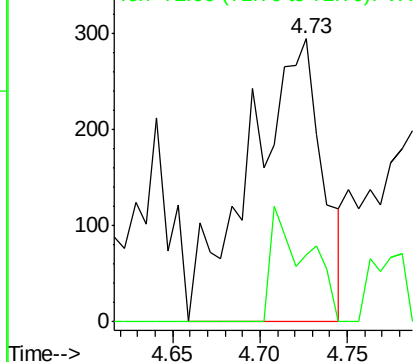


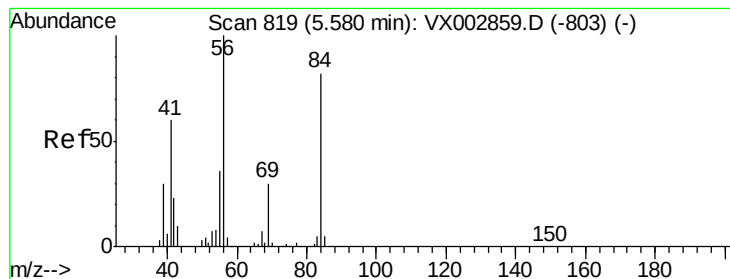
#25
2-Butanone
Concen: 0.34 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.02 min
Lab File: VX003153.D
Acq: 03 Jul 2018 17:13

Tgt Ion: 43 Resp: 846
Ion Ratio Lower Upper
43 100
72 23.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 0.28 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

S10-0141

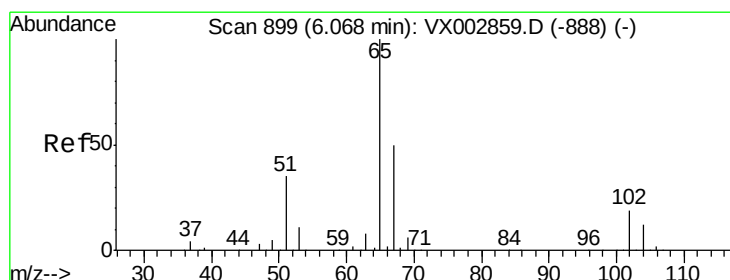
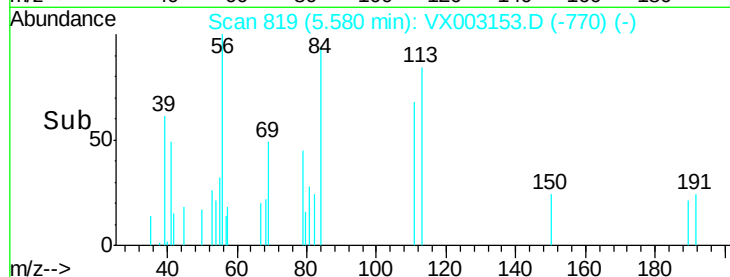
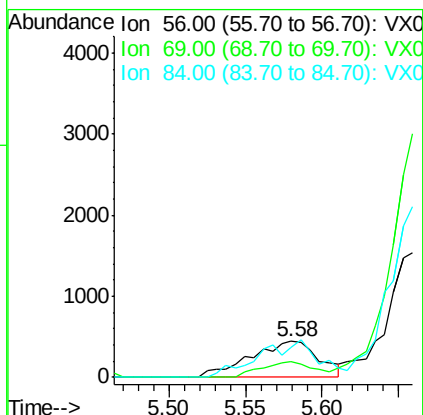
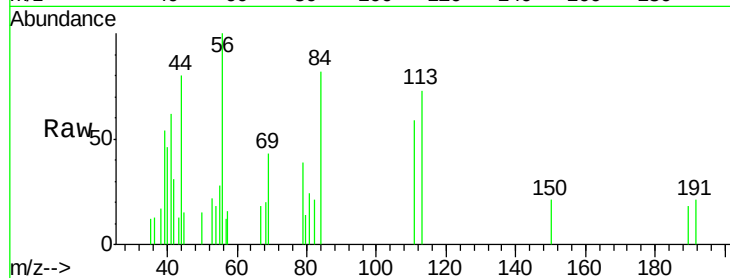
Tot Ion: 56 Resp: 1394

Ion Ratio Lower Upper

56 100

69 43.1 23.7 35.5#

84 82.3 64.1 96.1



#33

1,2-Dichloroethane-d4

Concen: 45.55 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003153.D

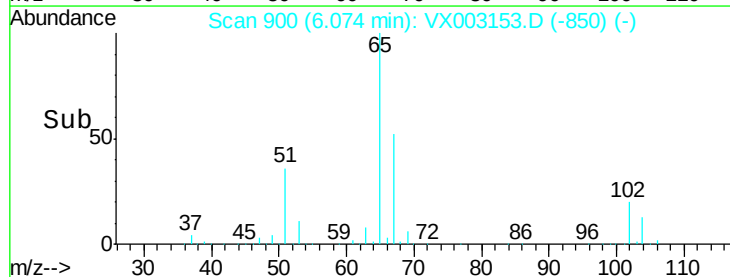
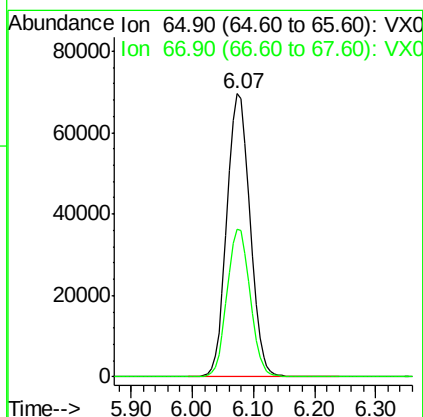
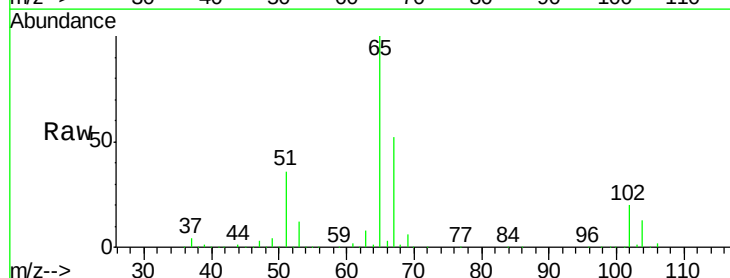
Acq: 03 Jul 2018 17:13

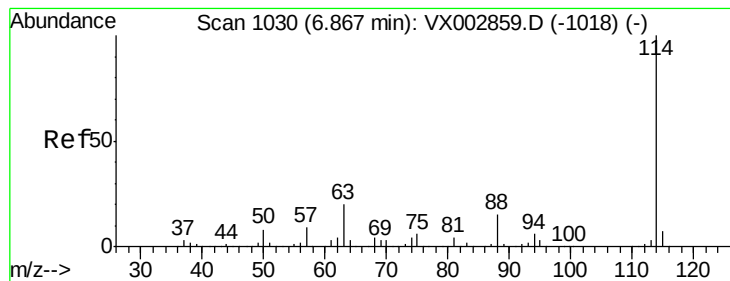
Tgt Ion: 65 Resp: 181979

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

S10-0141

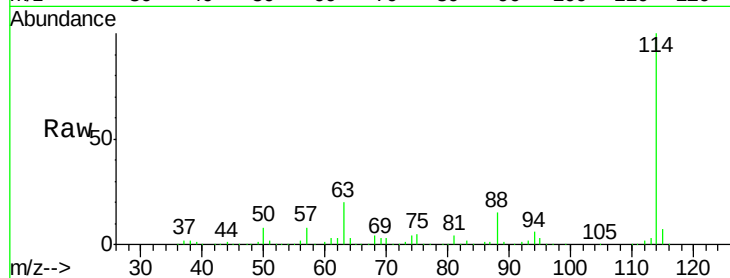
Tot Ion:114 Resp: 397488

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

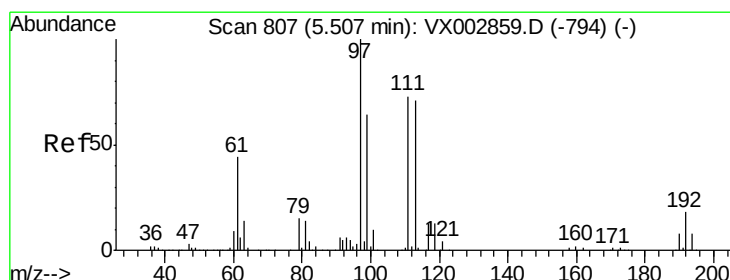
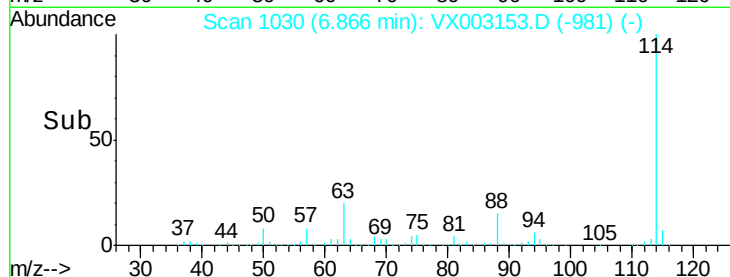
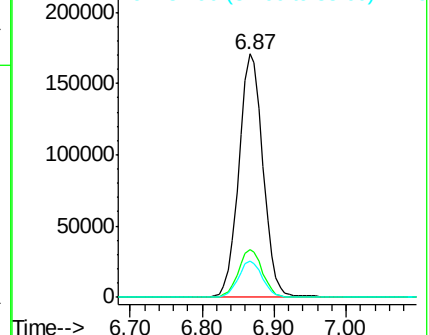
88 15.0 0.0 30.0



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: 48.36 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

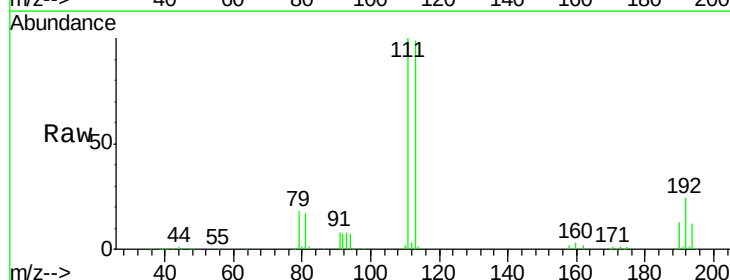
Tgt Ion:113 Resp: 152236

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

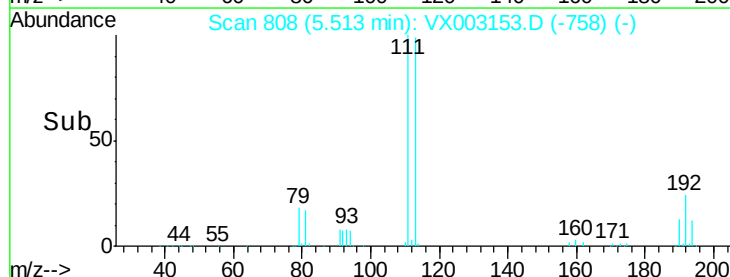
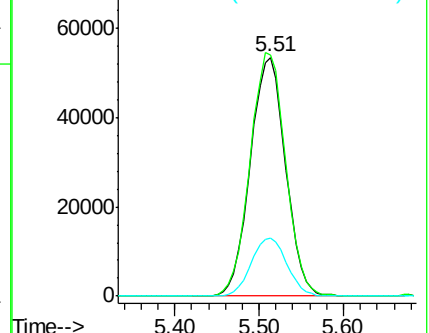
192 24.6 19.1 28.7

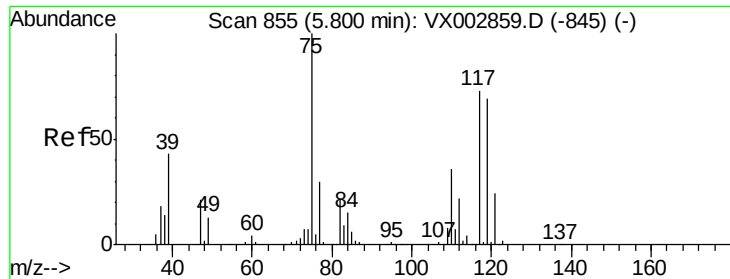


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

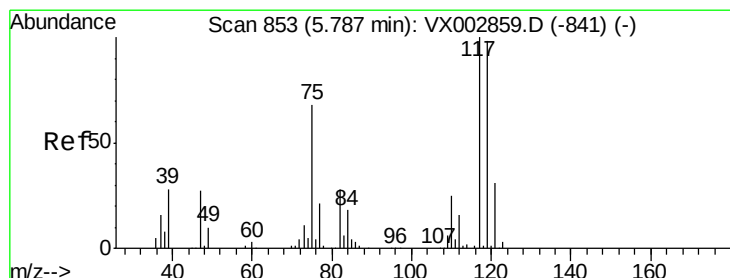
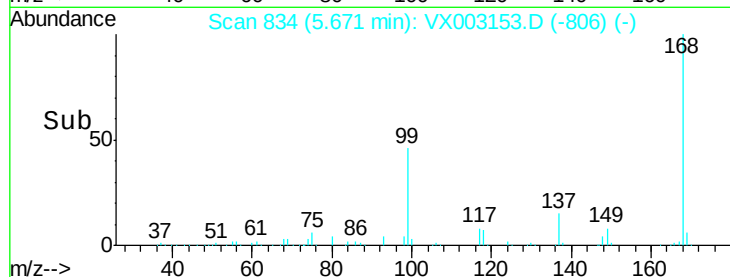
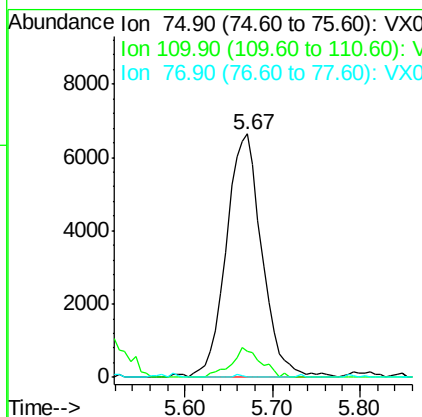
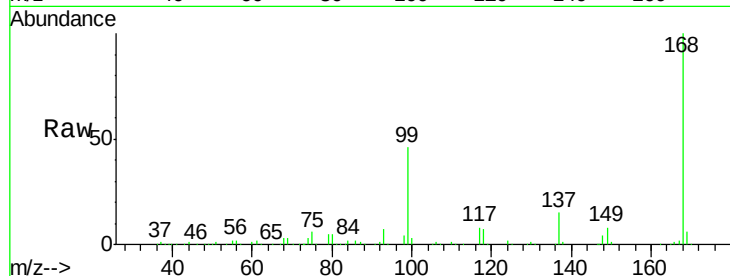




#36
 1,1-Dichloropropene
 Concen: 4.31 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX003153.D
 Acq: 03 Jul 2018 17:13

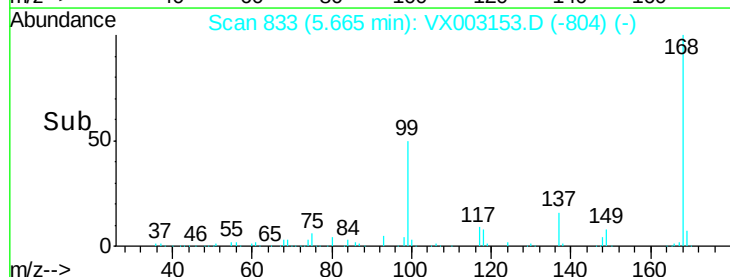
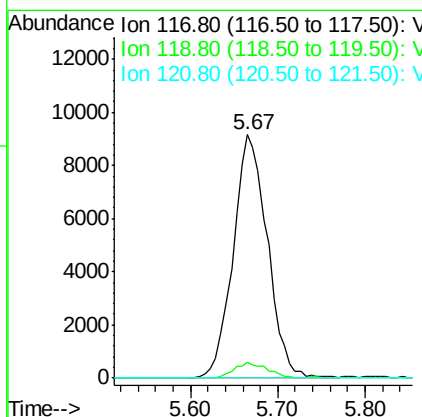
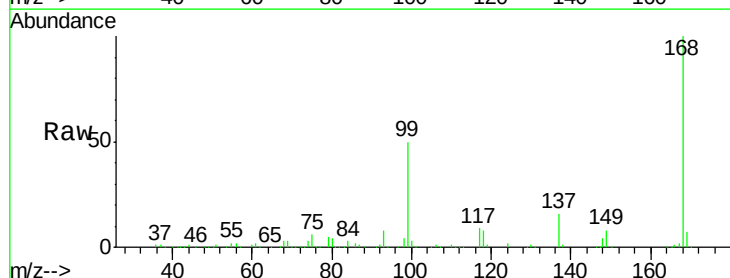
Instrument :
 MSVOA_X
 ClientSampleId :
 S10-0141

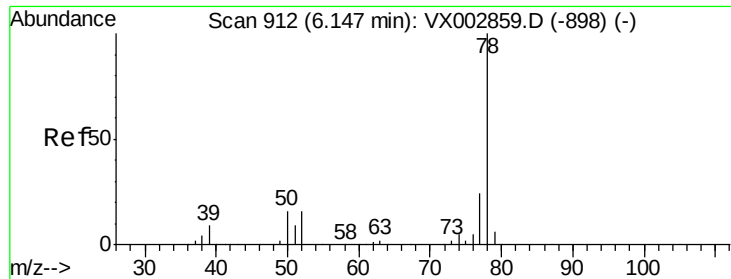
Tot Ion: 75 Resp: 18798
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.2 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.21 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003153.D
 Acq: 03 Jul 2018 17:13

Tgt Ion: 117 Resp: 24918
 Ion Ratio Lower Upper
 117 100
 119 6.3 77.4 116.0#
 121 0.0 24.4 36.6#





#40

Benzene

Concen: 24.36 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampled :

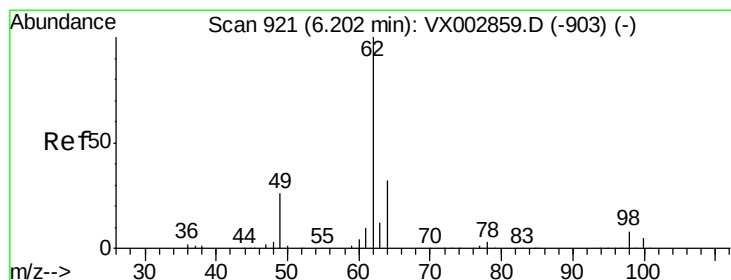
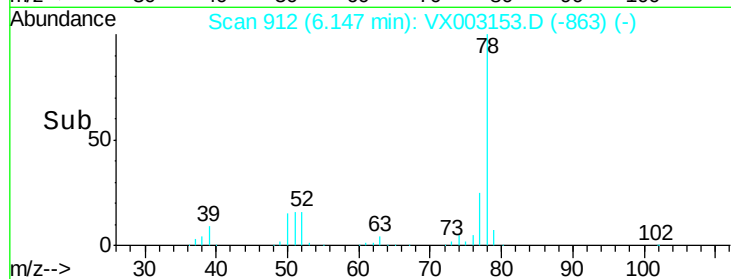
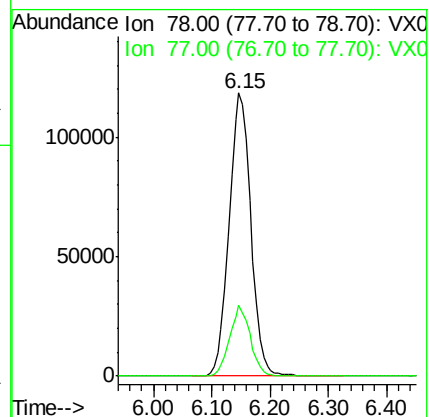
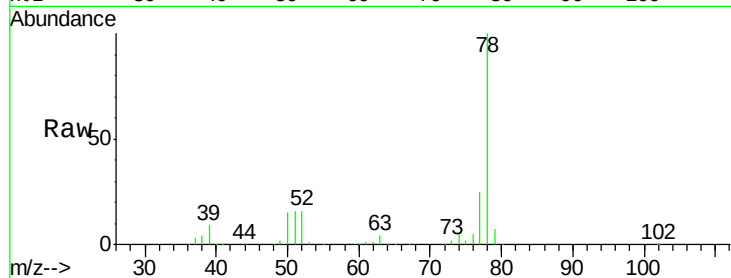
S10-0141

Tot Ion: 78 Resp: 308538

Ion Ratio Lower Upper

78 100

77 25.1 19.1 28.7



#42

1,2-Dichloroethane

Concen: 0.50 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.06 min

Lab File: VX003153.D

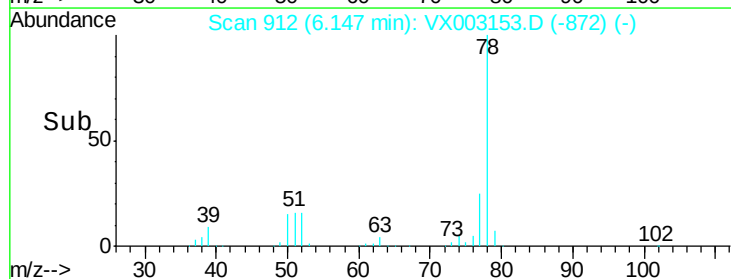
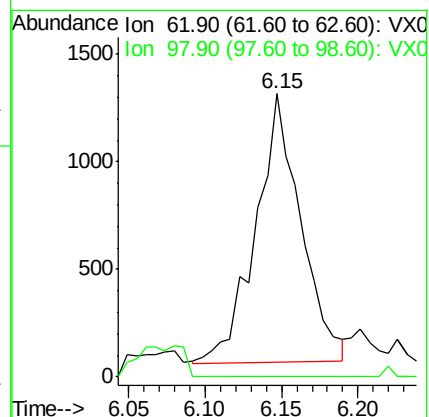
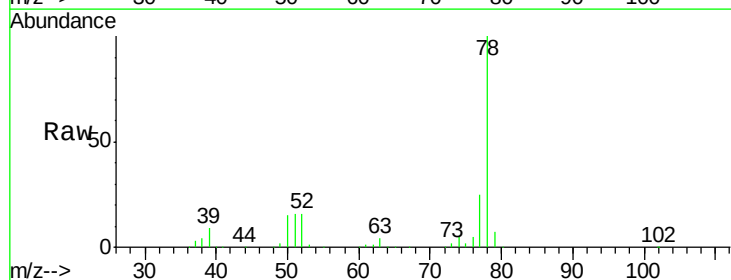
Acq: 03 Jul 2018 17:13

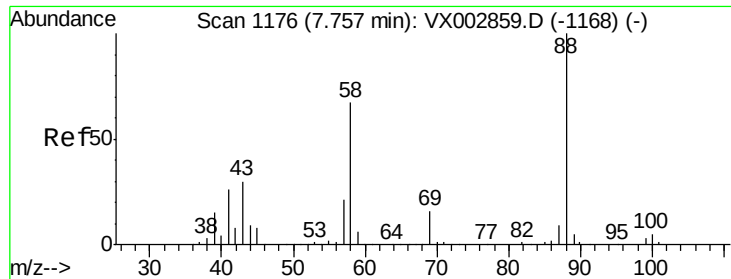
Tgt Ion: 62 Resp: 2558

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6





#49

1,4-Dioxane

Concen: 0.24 ug/l

RT: 7.99 min Scan# 1215

Delta R.T. 0.24 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

S10-0141

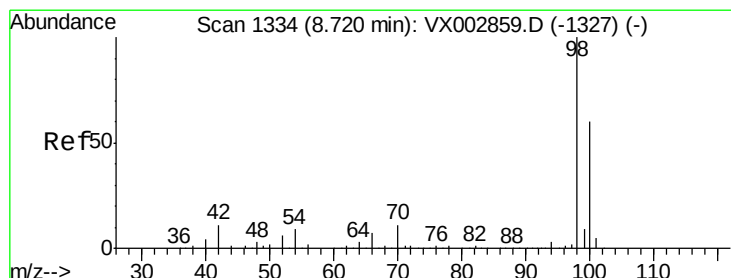
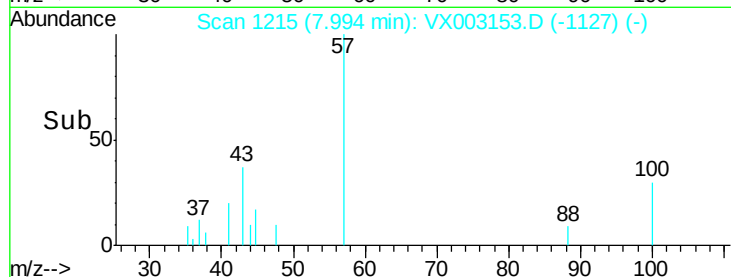
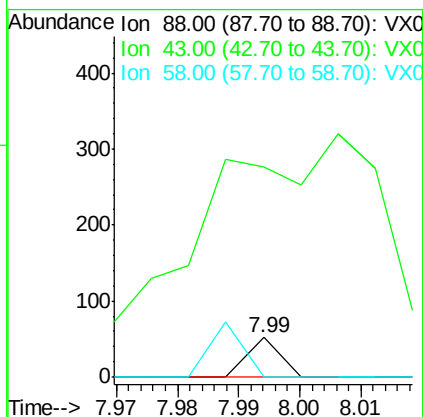
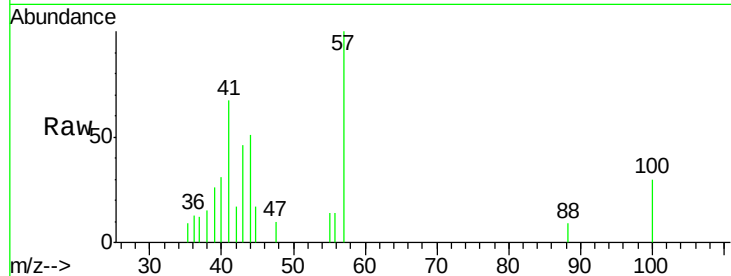
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 2294.7 29.8 44.6#

58 142.1 57.1 85.7#



#50

Toluene-d8

Concen: 48.22 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003153.D

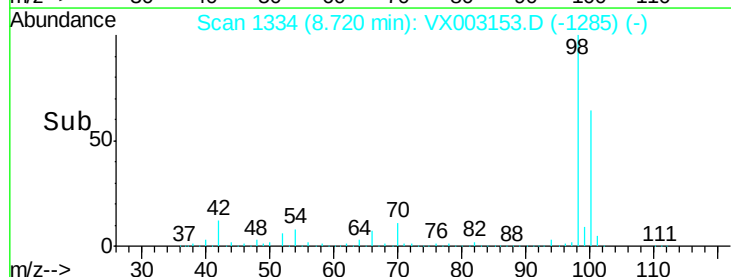
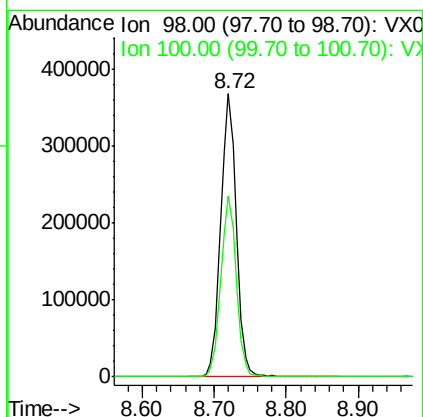
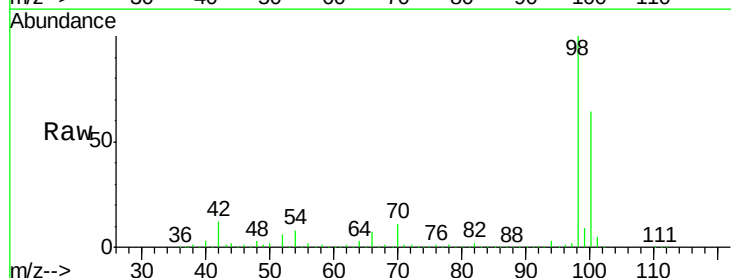
Acq: 03 Jul 2018 17:13

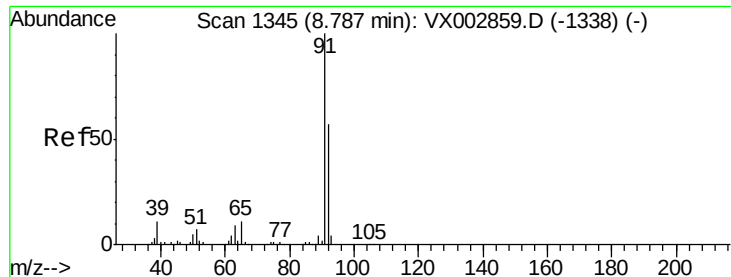
Tgt Ion: 98 Resp: 554249

Ion Ratio Lower Upper

98 100

100 63.5 50.9 76.3





#52

Toluene

Concen: 0.24 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

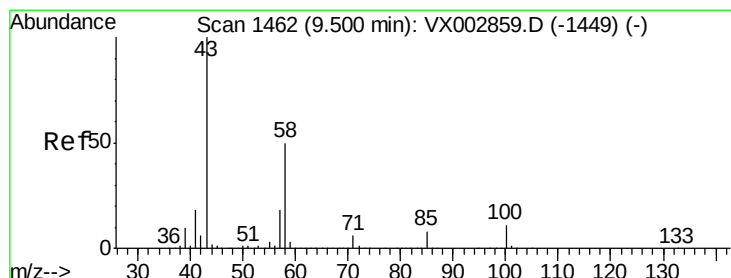
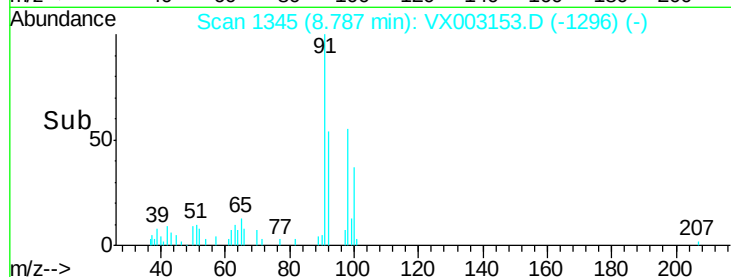
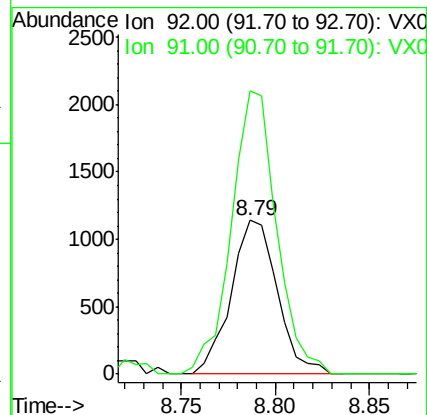
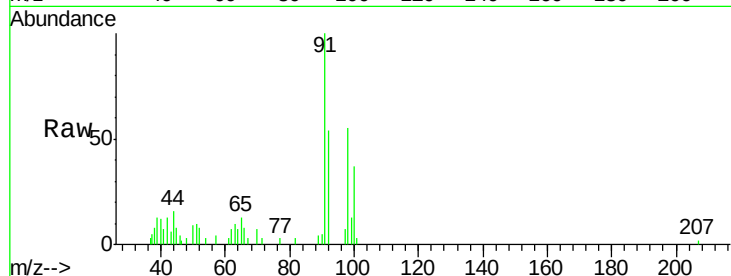
S10-0141

Tot Ion: 92 Resp: 1947

Ion Ratio Lower Upper

92 100

91 180.2 140.4 210.6



#59

2-Hexanone

Concen: 0.35 ug/l

RT: 9.52 min Scan# 1465

Delta R.T. 0.02 min

Lab File: VX003153.D

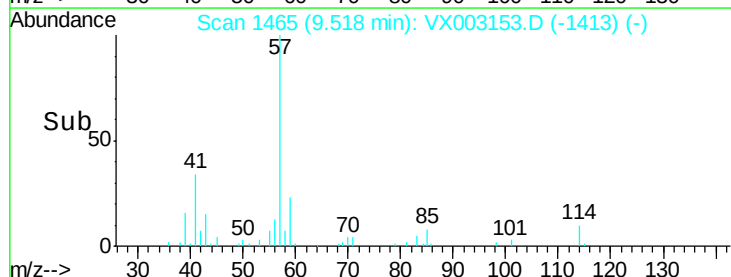
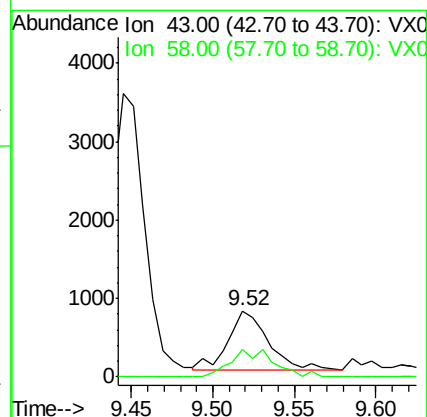
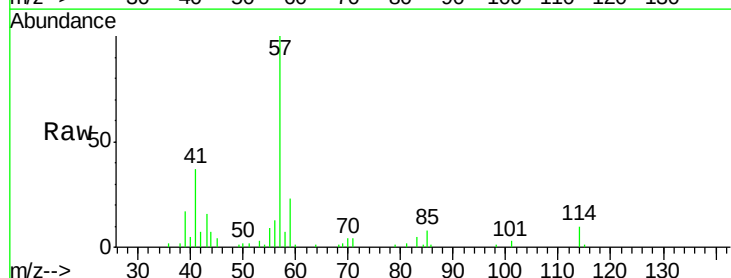
Acq: 03 Jul 2018 17:13

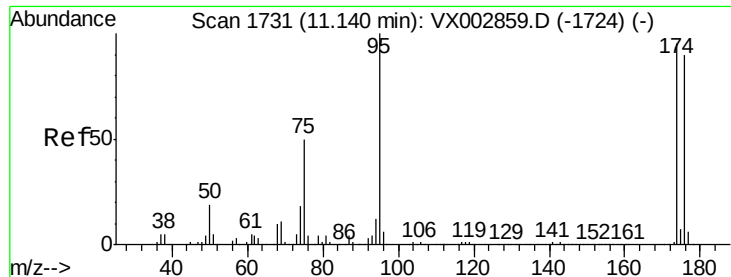
Tgt Ion: 43 Resp: 1311

Ion Ratio Lower Upper

43 100

58 49.4 24.6 73.6

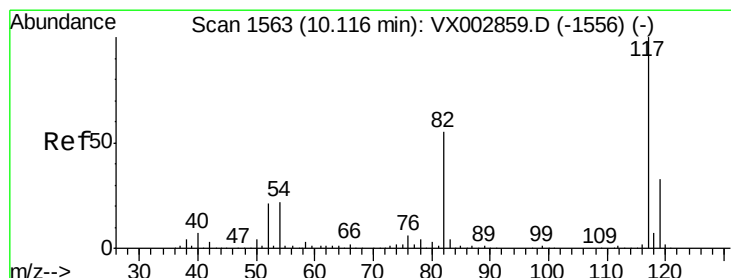
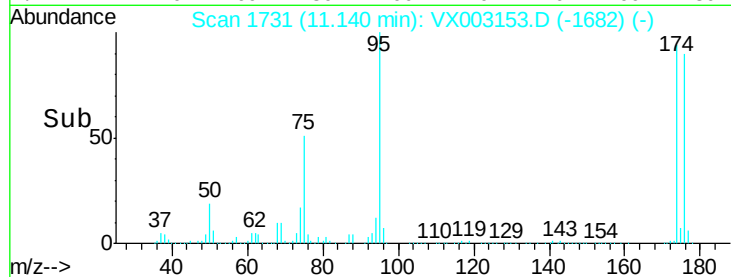
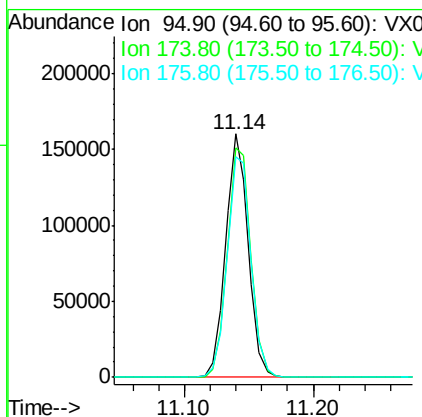
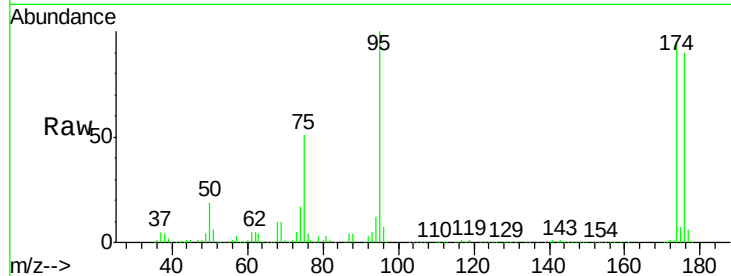




#62
4-Bromofluorobenzene
Concen: 44.48 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003153.D
Acq: 03 Jul 2018 17:13

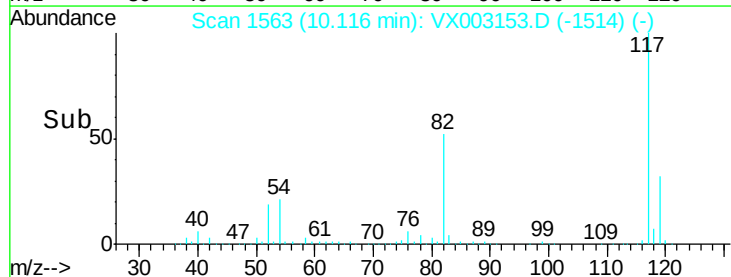
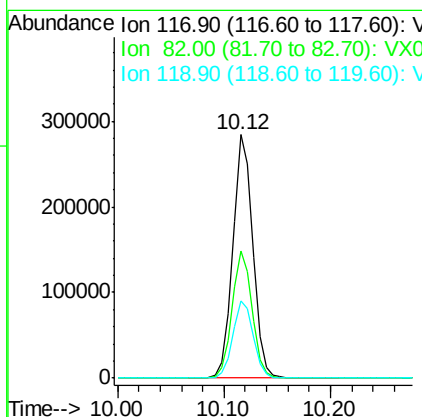
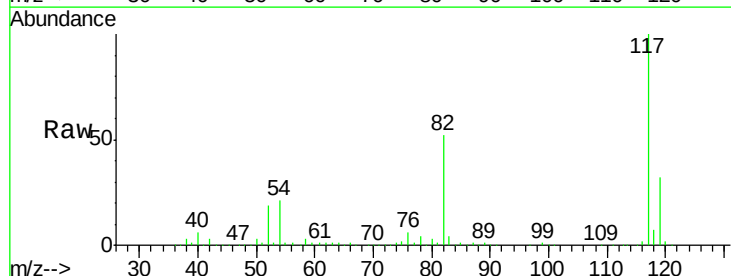
Instrument :
MSVOA_X
ClientSampled :
S10-0141

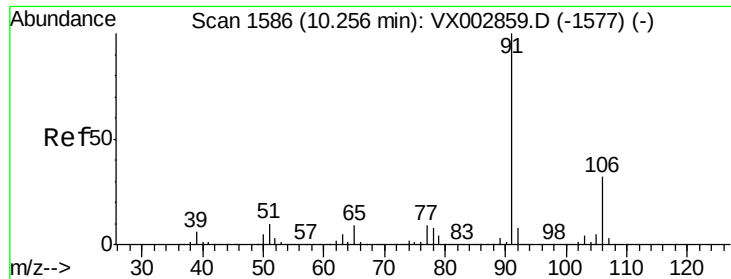
Tot Ion: 95 Resp: 197197
Ion Ratio Lower Upper
95 100
174 99.1 0.0 187.4
176 95.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003153.D
Acq: 03 Jul 2018 17:13

Tgt Ion: 117 Resp: 375777
Ion Ratio Lower Upper
117 100
82 52.2 45.0 67.4
119 32.0 25.8 38.6





#67

Ethyl Benzene

Concen: 0.52 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

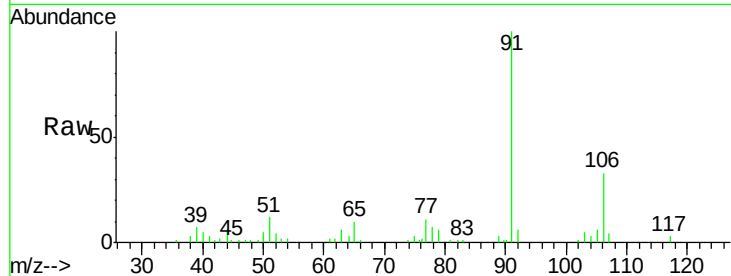
S10-0141

Tot Ion: 91 Resp: 8161

Ion Ratio Lower Upper

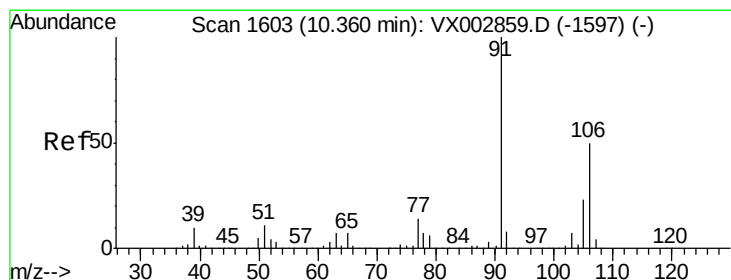
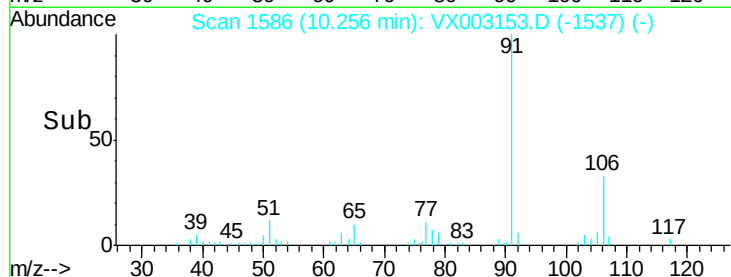
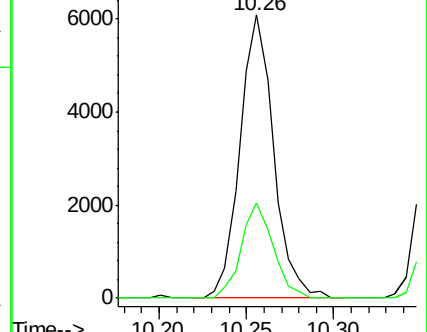
91 100

106 33.4 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VX002859.D (-1577) (-)

Ion 106.00 (105.70 to 106.70): VX002859.D (-1577) (-)



#68

m/p-Xylenes

Concen: 0.84 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.01 min

Lab File: VX003153.D

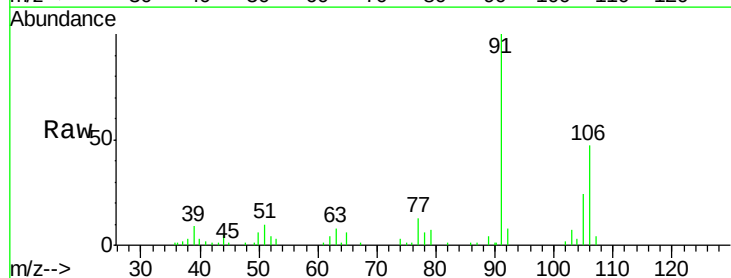
Acq: 03 Jul 2018 17:13

Tgt Ion: 106 Resp: 5077

Ion Ratio Lower Upper

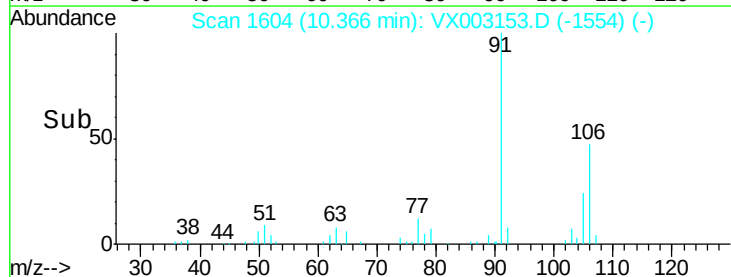
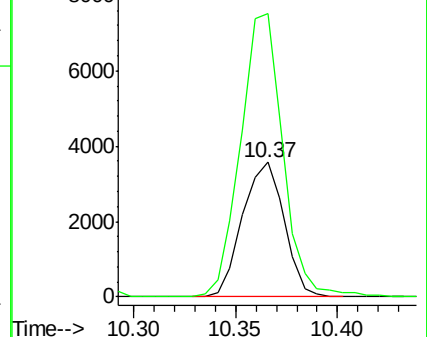
106 100

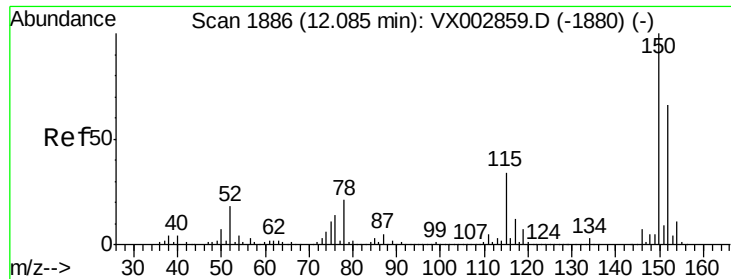
91 214.0 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): VX002859.D (-1597) (-)

Ion 91.00 (90.70 to 91.70): VX002859.D (-1597) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampleId :

S10-0141

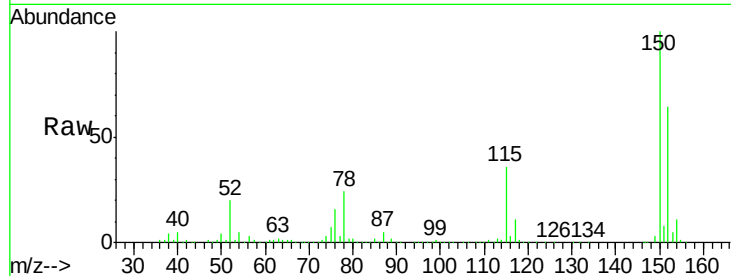
Tot Ion:152 Resp: 210887

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

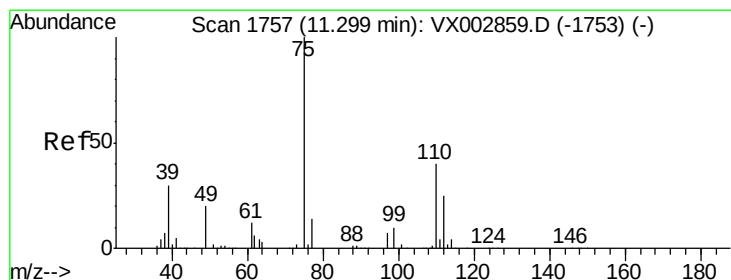
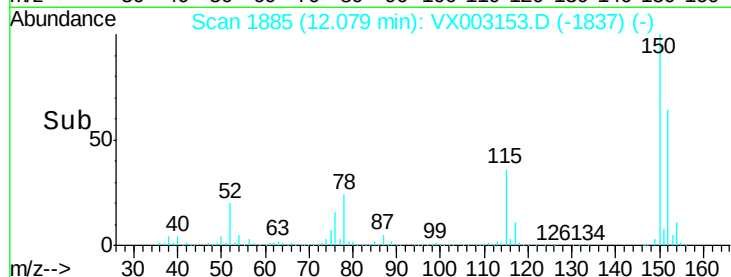
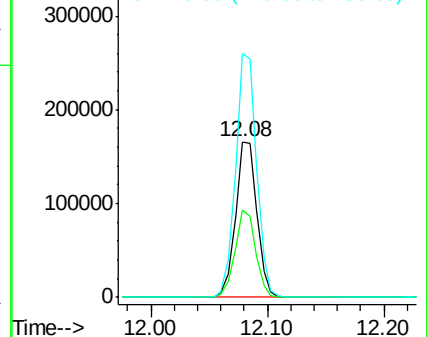
150 155.1 0.0 347.2



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: 25.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003153.D

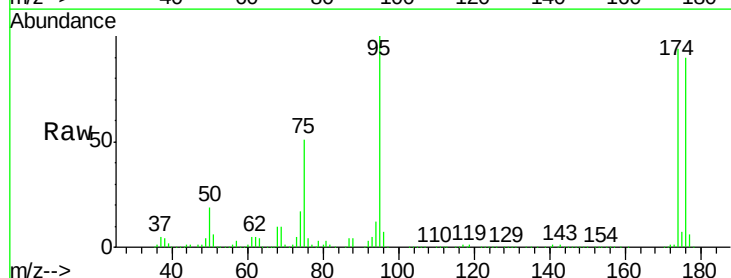
Acq: 03 Jul 2018 17:13

Tgt Ion: 75 Resp: 99276

Ion Ratio Lower Upper

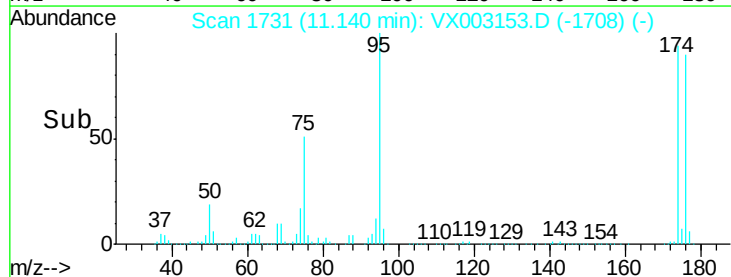
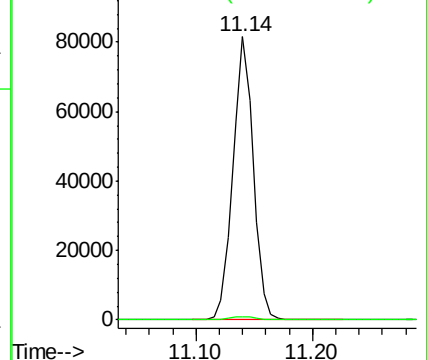
75 100

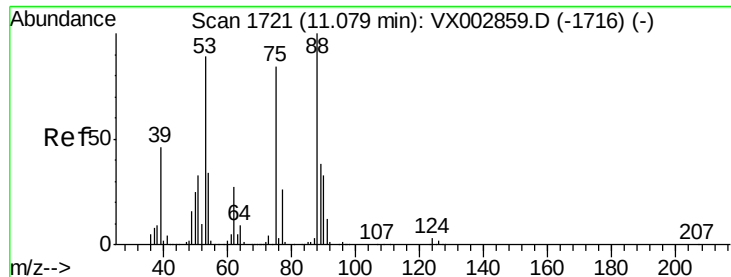
77 1.4 22.8 68.3#



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: 73.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

Instrument :

MSVOA_X

ClientSampled :

S10-0141

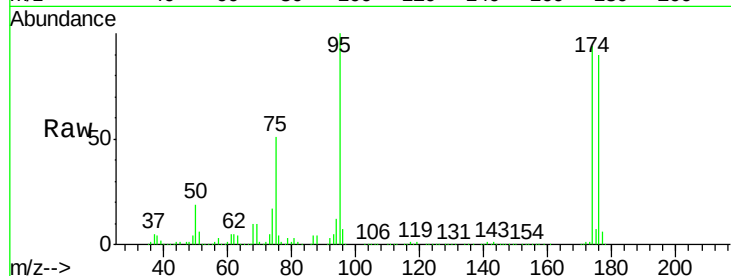
Tot Ion: 75 Resp: 99276

Ion Ratio Lower Upper

75 100

53 0.4 86.8 130.2#

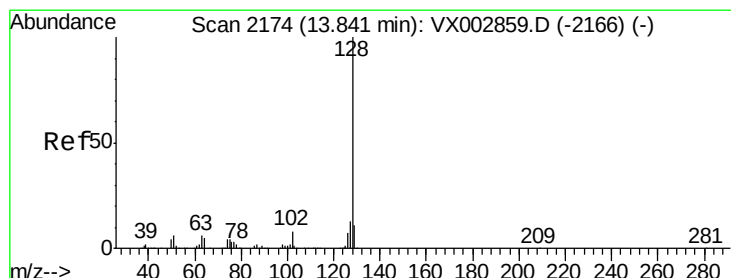
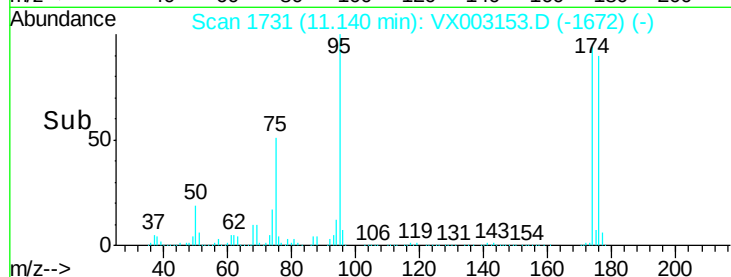
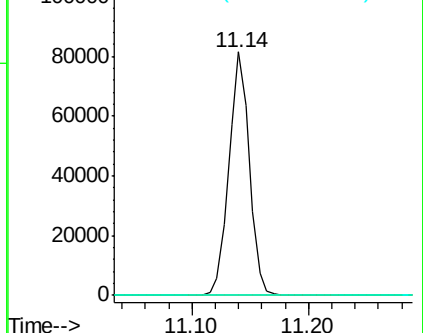
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 0.31 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX003153.D

Acq: 03 Jul 2018 17:13

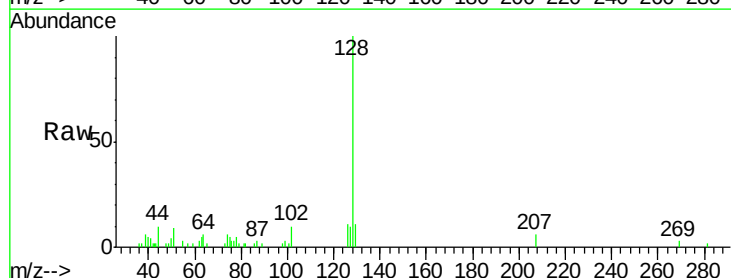
Tgt Ion: 128 Resp: 4448

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 11.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

