

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002143.D
 Acq On : 30 May 2018 17:23
 Operator : JC/MD
 Sample : VX0530WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0530WBL02

Quant Time: May 31 02:15:50 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	292898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	421028	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	376856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	209749	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	257028	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
35) Dibromofluoromethane	5.51	113	194431	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
50) Toluene-d8	8.72	98	763842	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.14	95	275960	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	

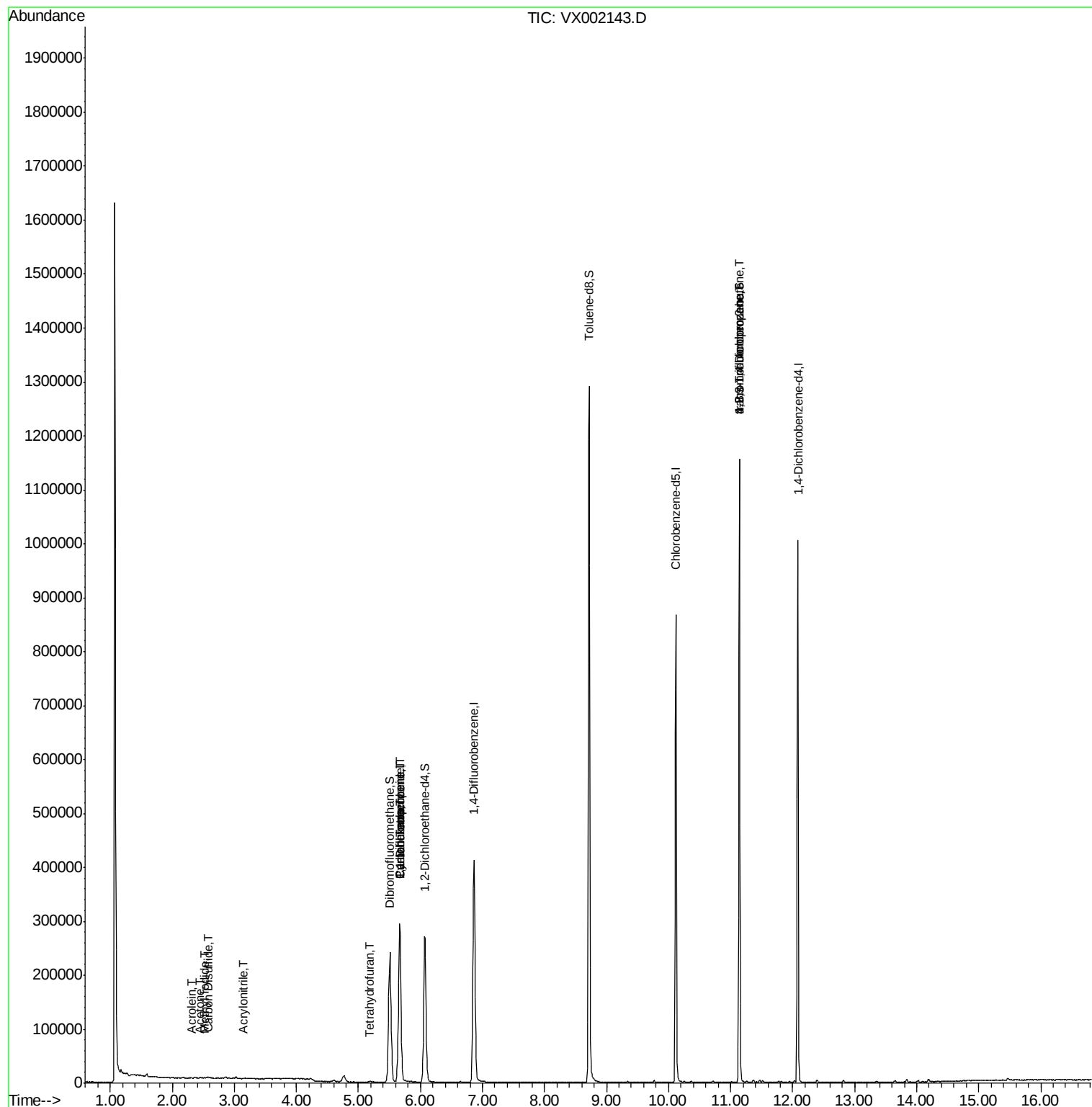
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.27	85	38	Below Cal	#	41
5) Bromomethane	1.66	94	965	Below Cal	#	67
10) Methyl Iodide	2.52	142	992	0.20	ug/l	89
13) Acrolein	2.31	56	439	0.99	ug/l	# 14
15) Acrylonitrile	3.14	53	802	0.38	ug/l	# 59
16) Acetone	2.45	43	1623	0.80	ug/l	# 83
17) Carbon Disulfide	2.57	76	2335	0.24	ug/l	# 85
18) Methyl Acetate	2.78	43	493	Below Cal		92
20) Methylene Chloride	2.86	84	1057	Below Cal	#	80
21) trans-1,2-Dichloroethene	3.17	96	500	Below Cal	#	72
28) Bromochloromethane	5.01	49	299	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	928	0.39	ug/l	# 73
31) Cyclohexane	5.67	56	6285	0.87	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	21024	3.59	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	26865	3.93	ug/l	# 15
41) Methacrylonitrile	5.05	41	229	Below Cal	#	70
74) N-amyl acetate	6.48	43	59	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.27	83	41	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	145860	28.95	ug/l	# 32
79) 2-Chlorotoluene	11.42	91	591	Below Cal		94
81) trans-1,4-Dichloro-2-buten	11.14	75	145860	69.58	ug/l	# 10

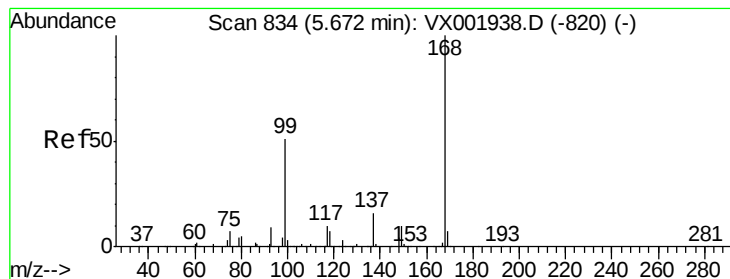
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

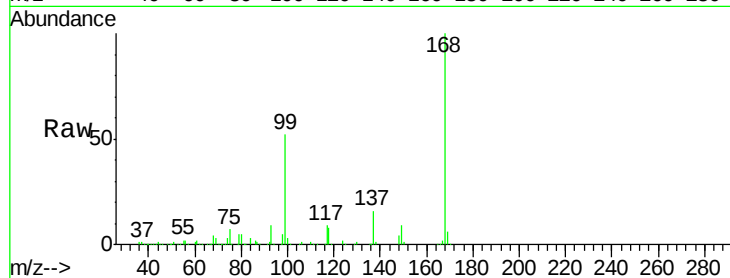
VX0530WBL02

Tgt Ion:168 Resp: 292898

Ion Ratio Lower Upper

168 100

99 52.4 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

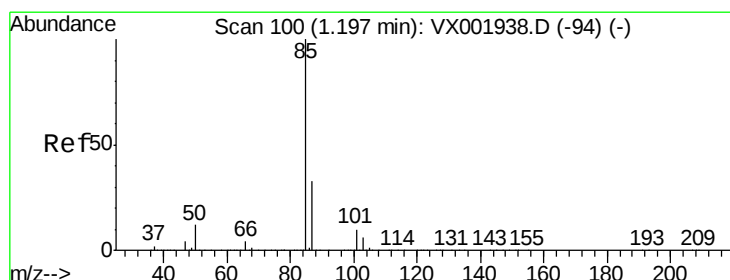
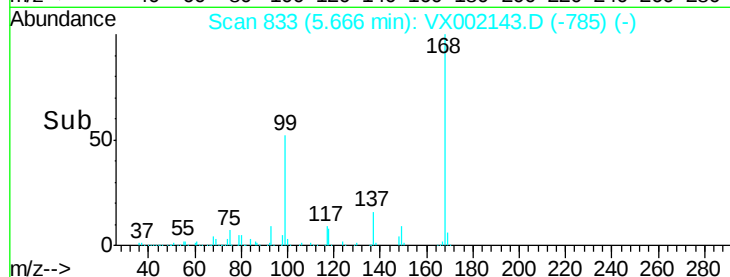
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.27 min Scan# 112

Delta R.T. 0.07 min

Lab File: VX002143.D

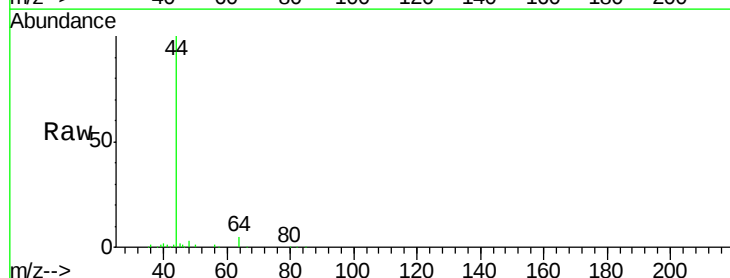
Acq: 30 May 2018 17:23

Tgt Ion: 85 Resp: 38

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.27

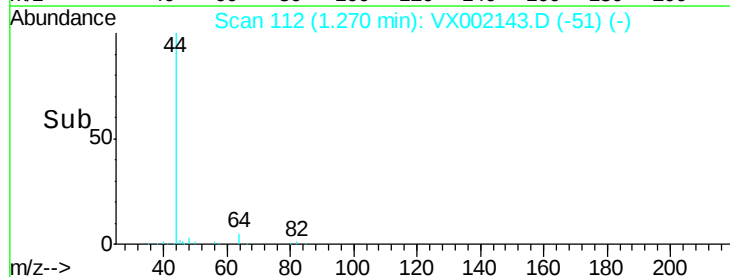
60

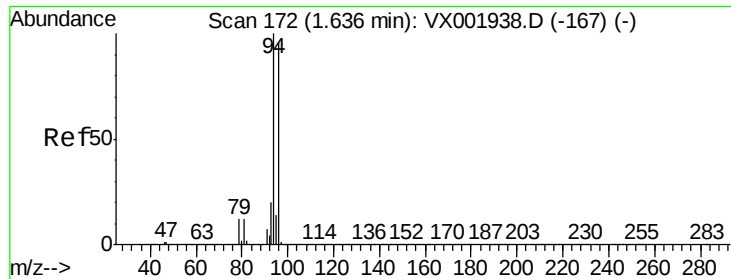
40

20

0

Time--> 1.26 1.28





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampled :

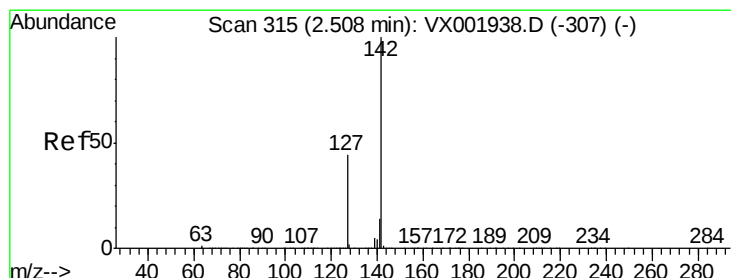
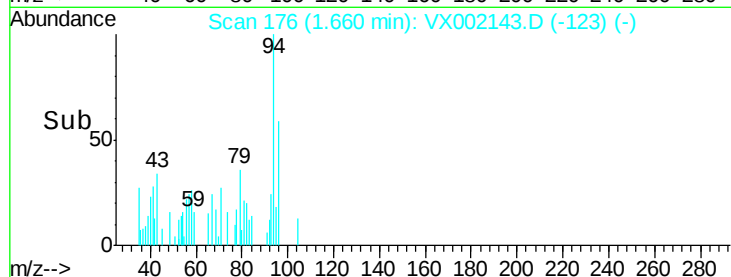
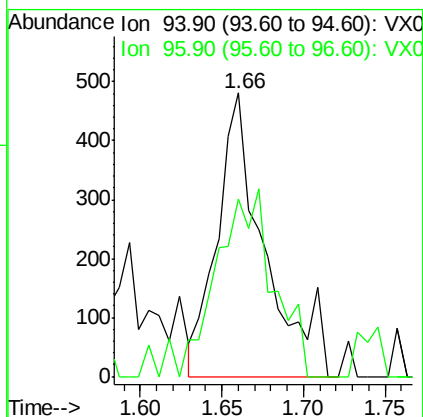
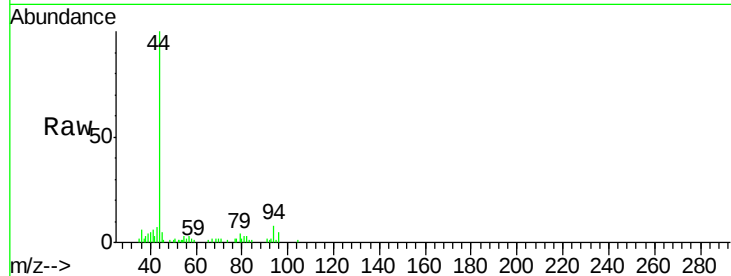
VX0530WBL02

Tgt Ion: 94 Resp: 965

Ion Ratio Lower Upper

94 100

96 62.8 75.9 113.9#



#10

Methyl Iodide

Concen: 0.20 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

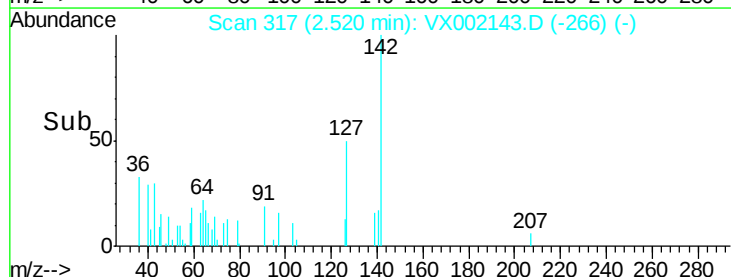
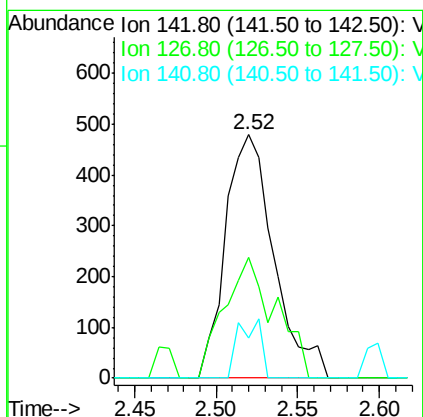
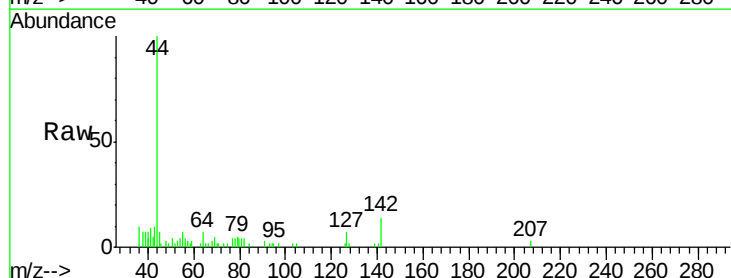
Tgt Ion: 142 Resp: 992

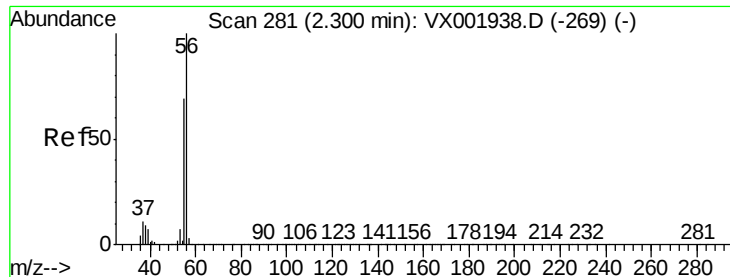
Ion Ratio Lower Upper

142 100

127 52.3 35.5 53.3

141 11.3 11.3 16.9





#13

Acrolein

Concen: 0.99 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

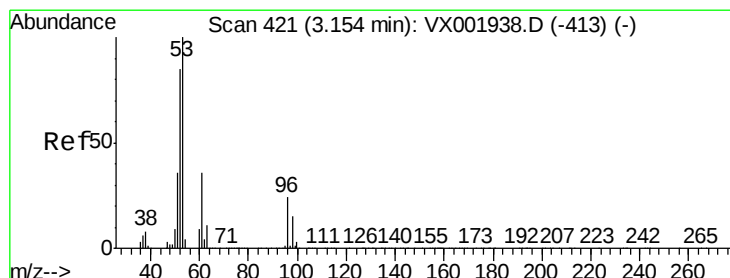
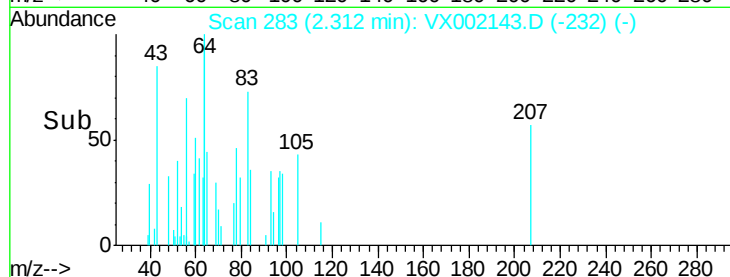
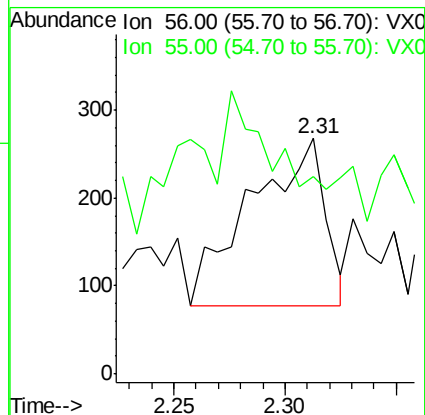
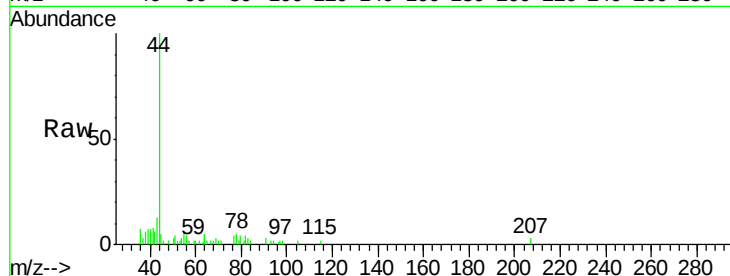
VX0530WBL02

Tgt Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

55 0.0 56.8 85.2#



#15

Acrylonitrile

Concen: 0.38 ug/l

RT: 3.14 min Scan# 418

Delta R.T. -0.02 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

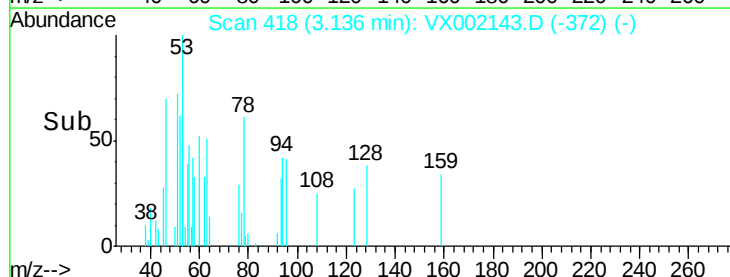
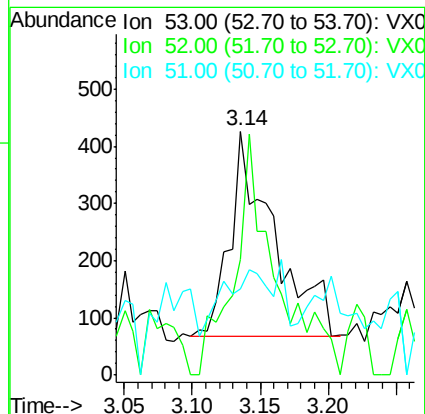
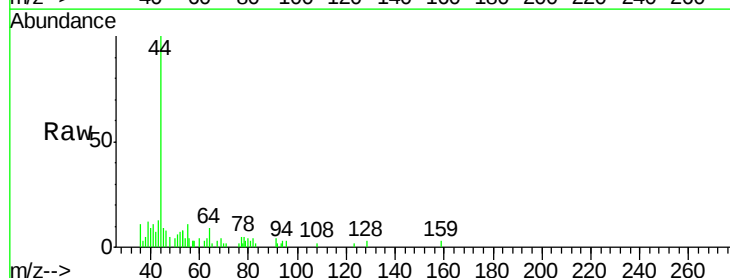
Tgt Ion: 53 Resp: 802

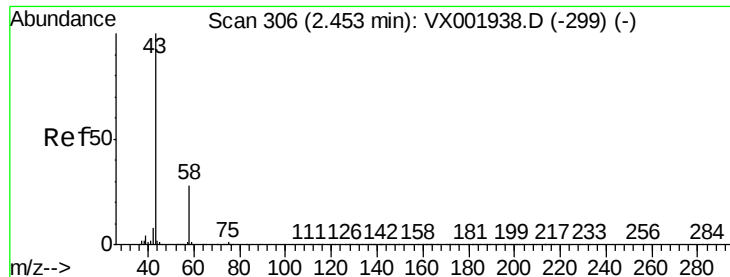
Ion Ratio Lower Upper

53 100

52 111.1 66.4 99.6#

51 0.0 29.3 43.9#





#16

Acetone

Concen: 0.80 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

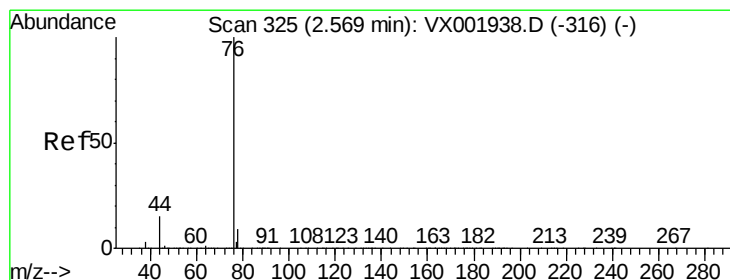
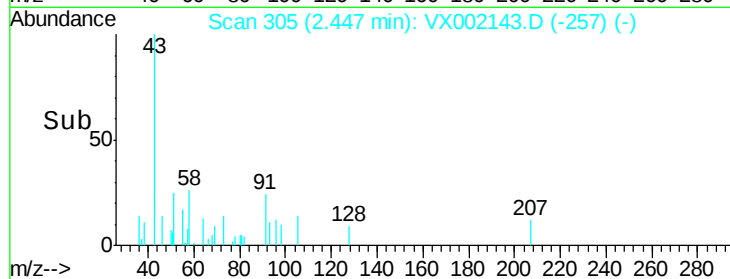
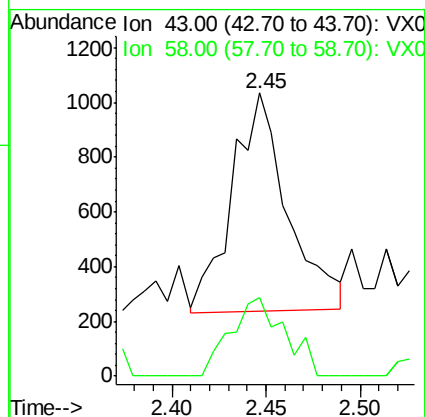
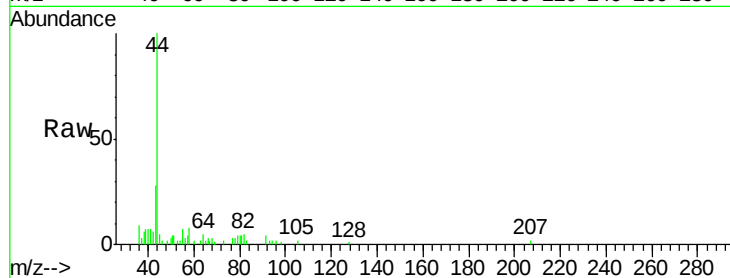
VX0530WBL02

Tgt Ion: 43 Resp: 1623

Ion Ratio Lower Upper

43 100

58 36.9 22.3 33.5#



#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002143.D

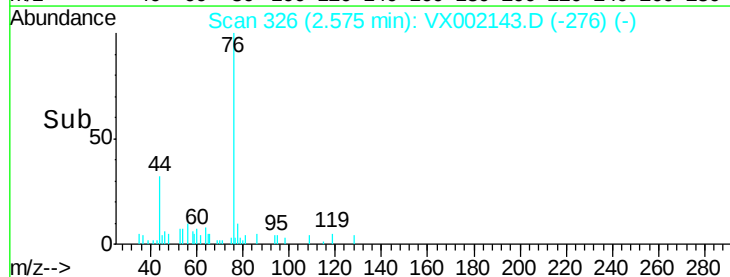
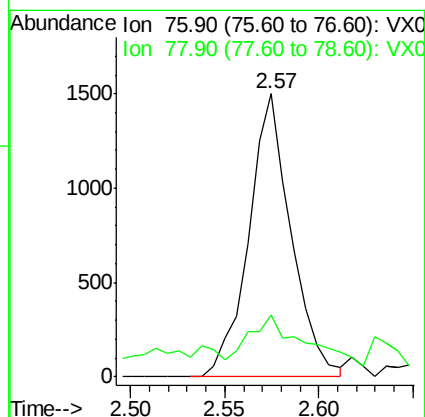
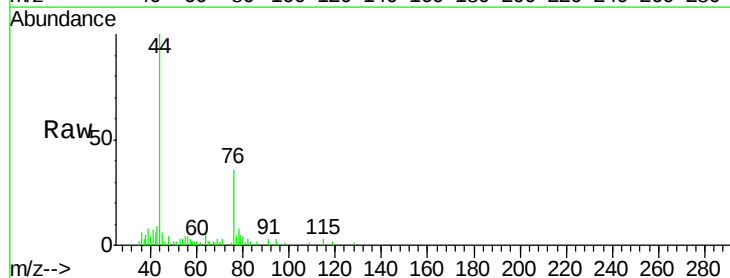
Acq: 30 May 2018 17:23

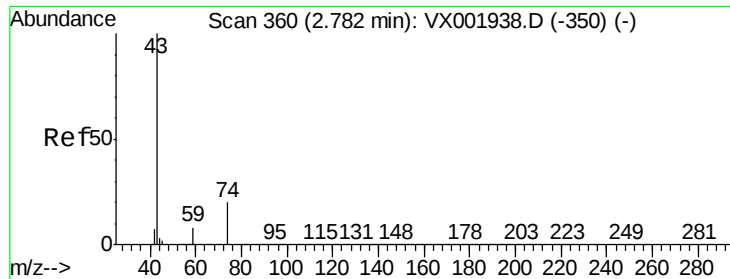
Tgt Ion: 76 Resp: 2335

Ion Ratio Lower Upper

76 100

78 14.7 7.4 11.2#

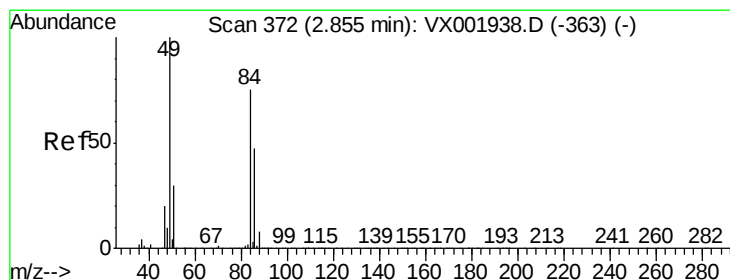
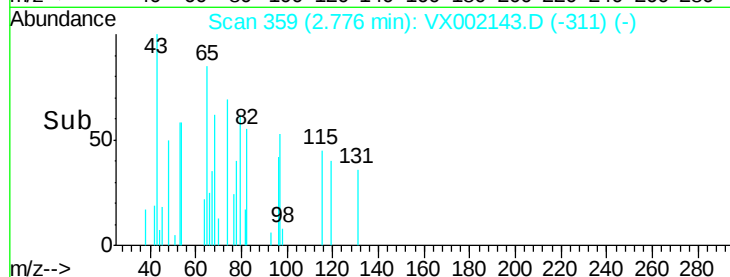
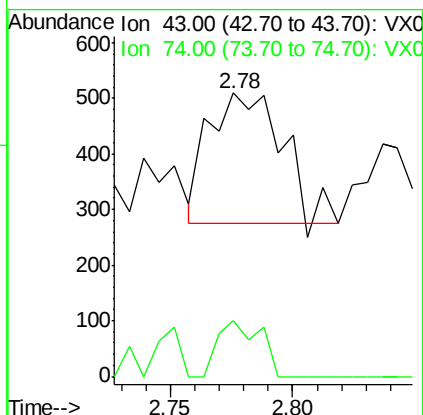
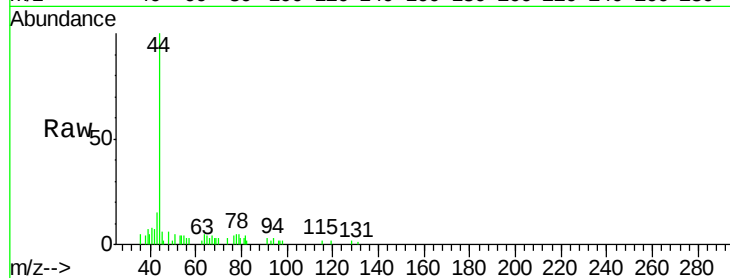




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002143.D
Acq: 30 May 2018 17:23

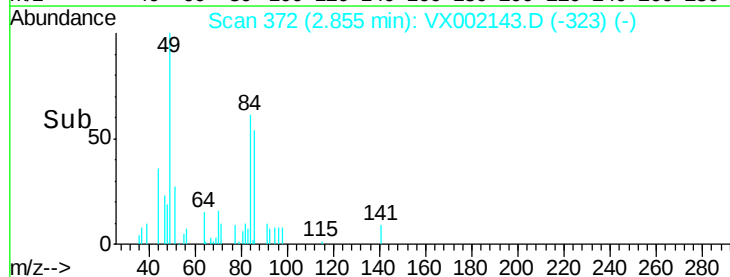
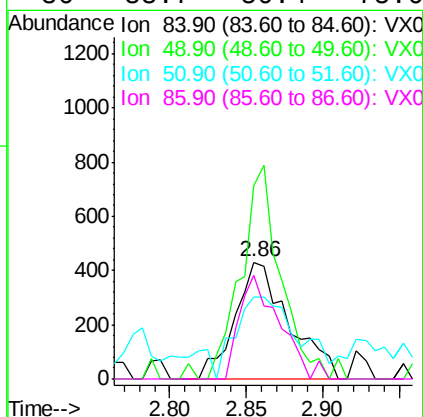
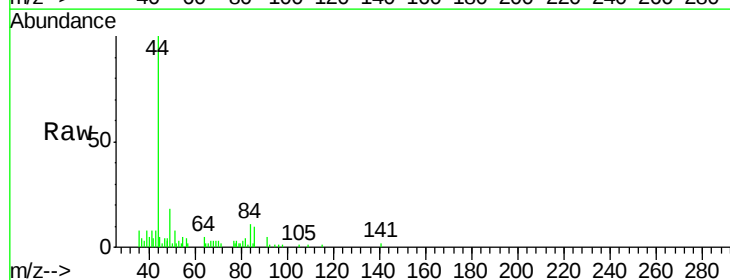
Instrument :
MSVOA_X
ClientSampleId :
VX0530WBL02

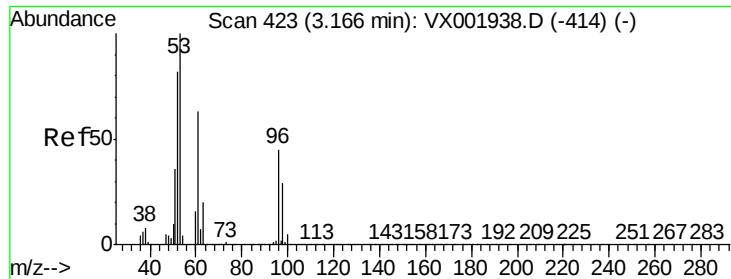
Tgt Ion: 43 Resp: 493
Ion Ratio Lower Upper
43 100
74 24.5 16.8 25.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX002143.D
Acq: 30 May 2018 17:23

Tgt Ion: 84 Resp: 1057
Ion Ratio Lower Upper
84 100
49 151.4 107.2 160.8
51 51.6 32.4 48.6#
86 88.7 50.4 75.6#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

VX0530WBL02

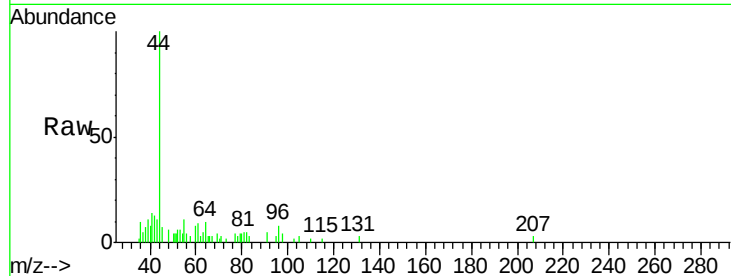
Tgt Ion: 96 Resp: 500

Ion Ratio Lower Upper

96 100

61 101.4 113.3 169.9#

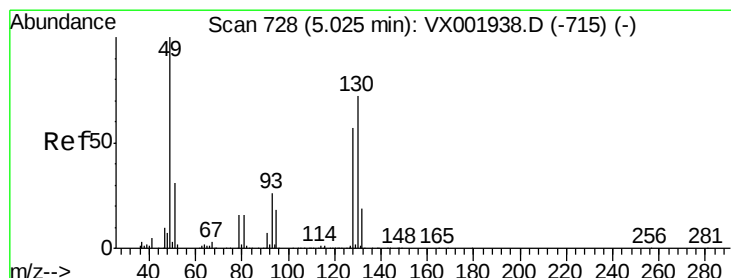
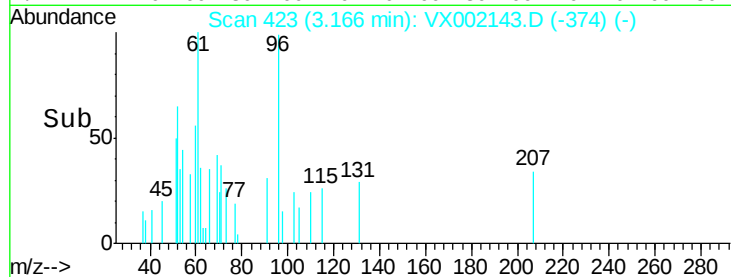
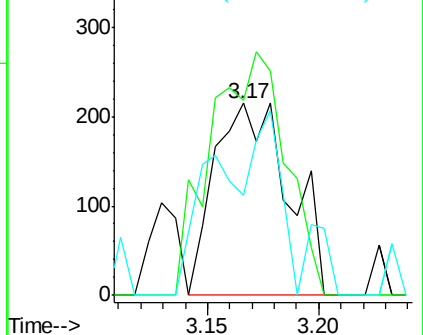
98 52.1 51.7 77.5



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



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

Delta R.T. -0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

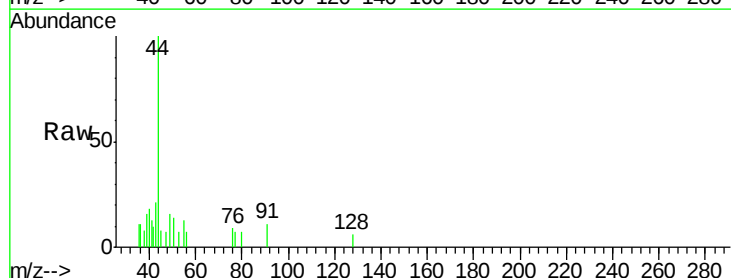
Tgt Ion: 49 Resp: 299

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

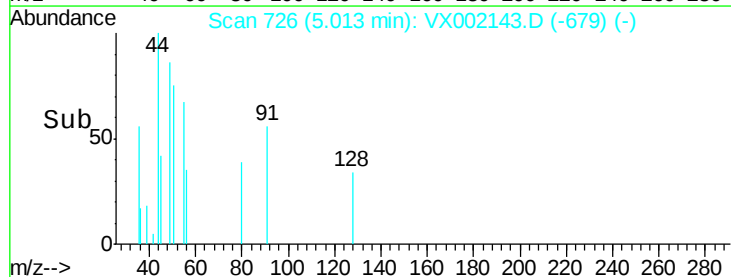
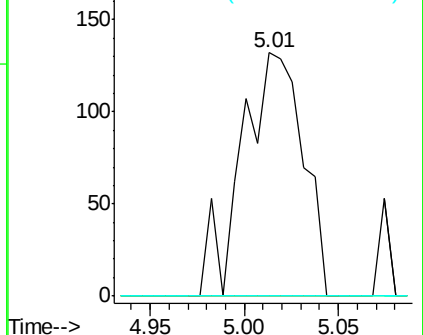
130 0.0 59.4 89.2#

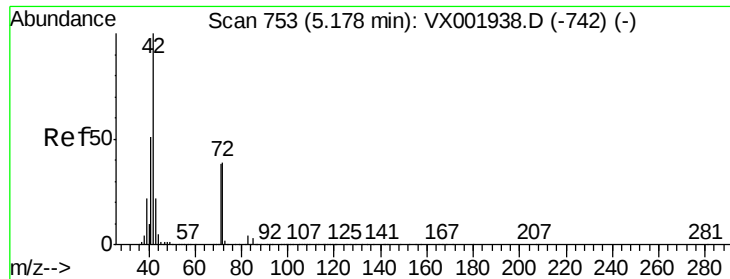


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.39 ug/l

RT: 5.18 min Scan# 753

Delta R.T. -0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

VX0530WBL02

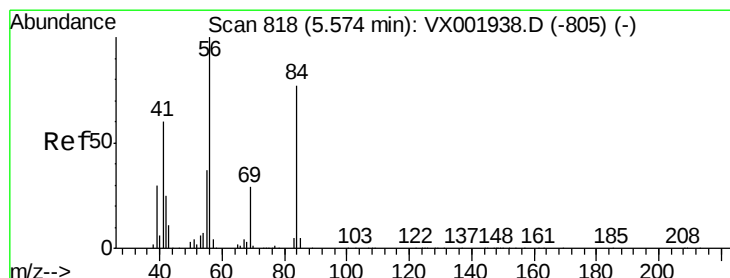
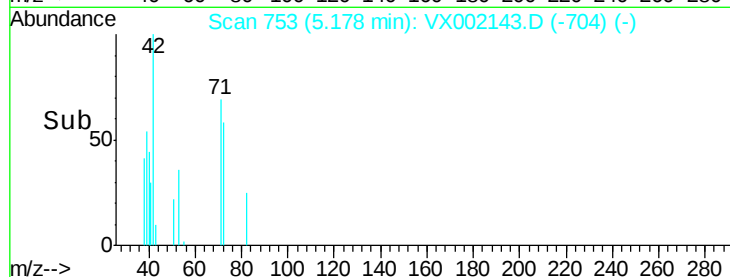
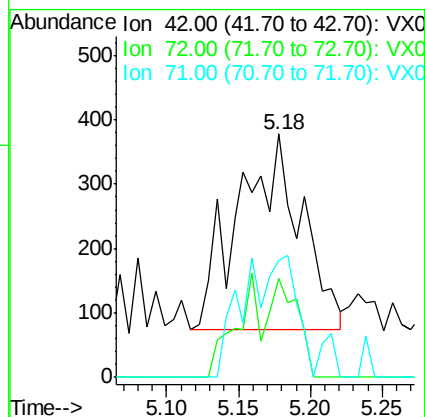
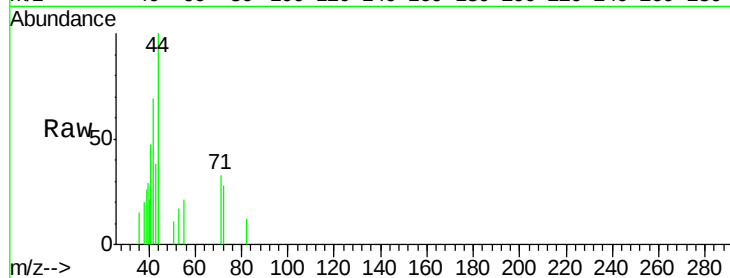
Tgt Ion: 42 Resp: 928

Ion Ratio Lower Upper

42 100

72 22.4 31.4 47.0#

71 52.3 29.5 44.3#



#31

Cyclohexane

Concen: 0.87 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

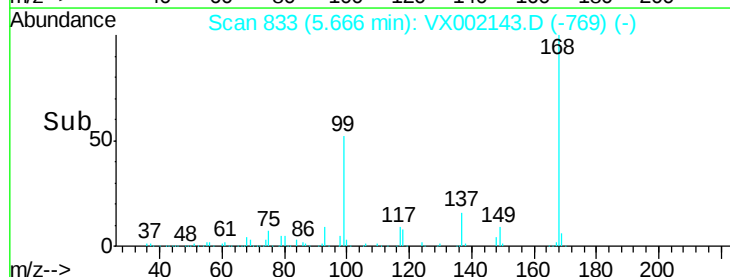
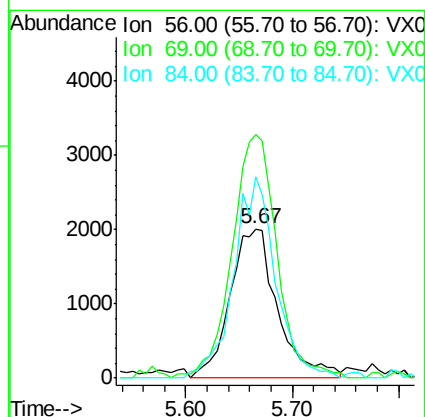
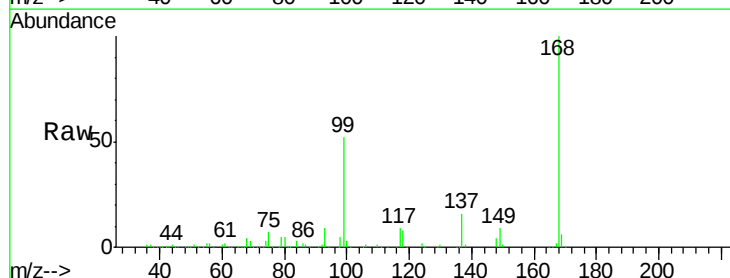
Tgt Ion: 56 Resp: 6285

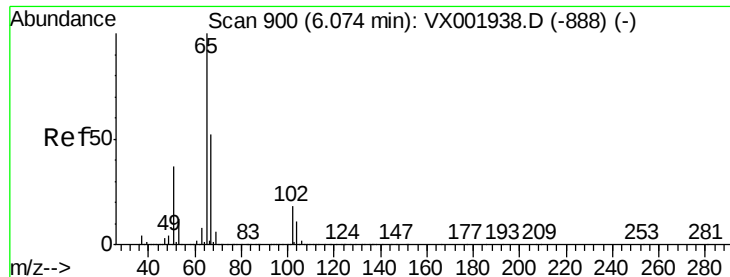
Ion Ratio Lower Upper

56 100

69 160.6 23.1 34.7#

84 134.8 62.0 93.0#





#33

1,2-Dichloroethane-d4

Concen: 49.09 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

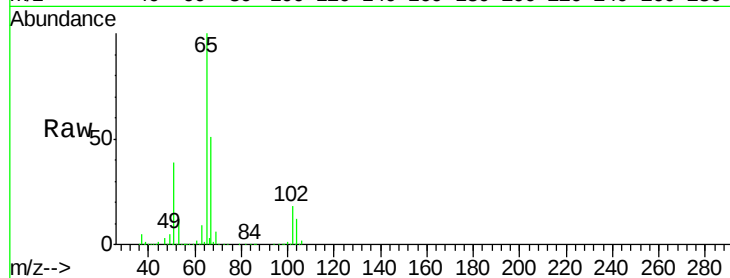
VX0530WBL02

Tgt Ion: 65 Resp: 257028

Ion Ratio Lower Upper

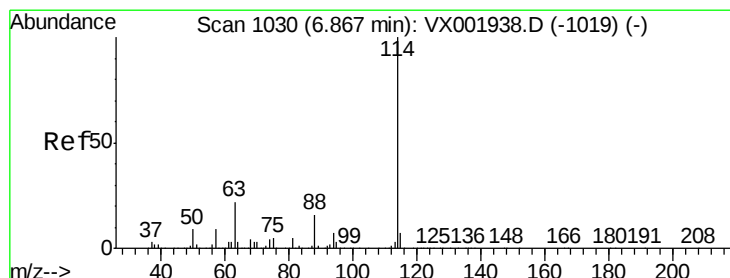
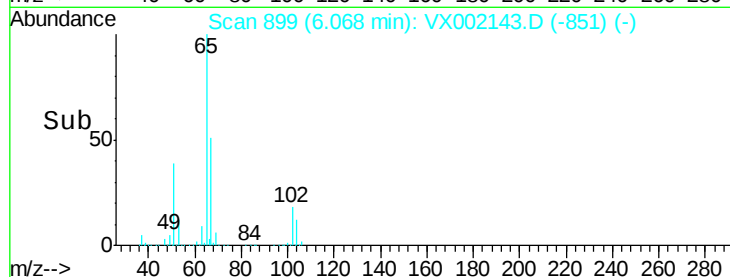
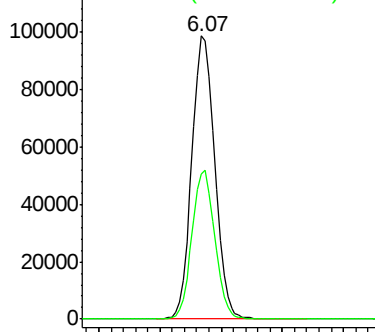
65 100

67 52.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

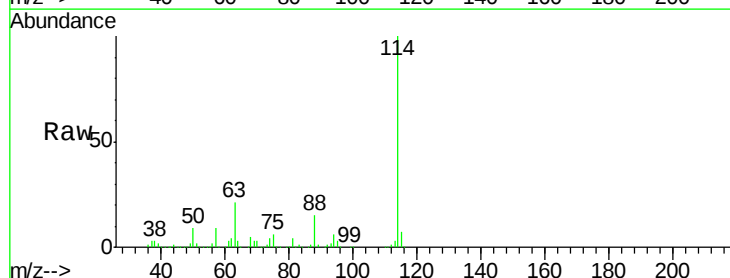
Tgt Ion: 114 Resp: 421028

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

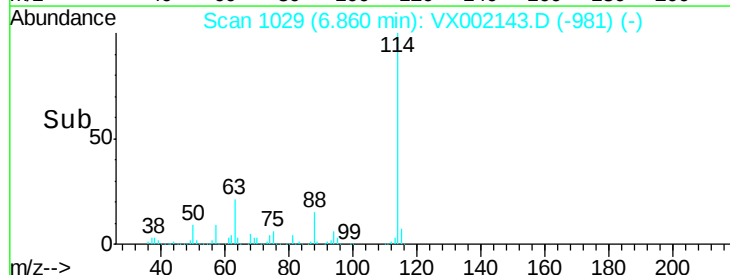
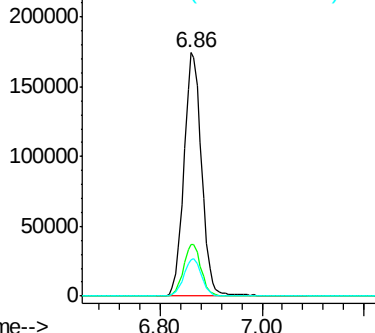
88 15.1 0.0 31.6

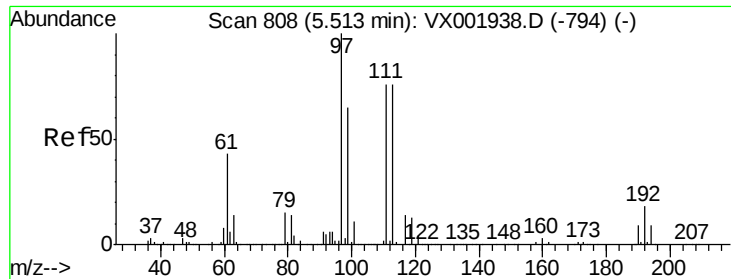


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

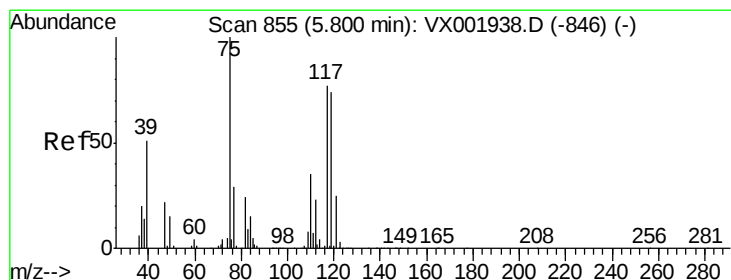
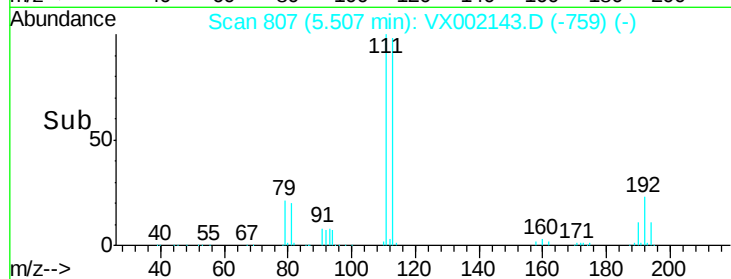
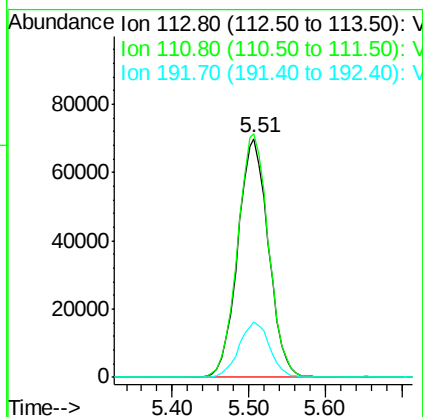
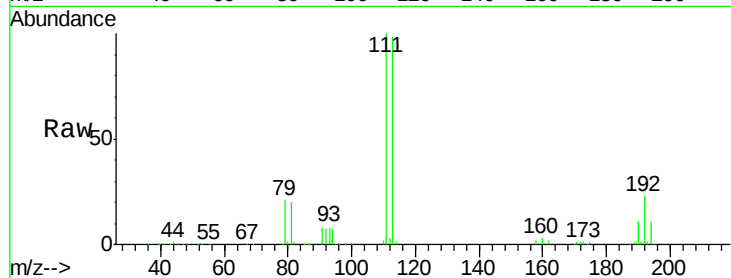




#35
 Dibromofluoromethane
 Concen: 46.18 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: VX002143.D
 Acq: 30 May 2018 17:23

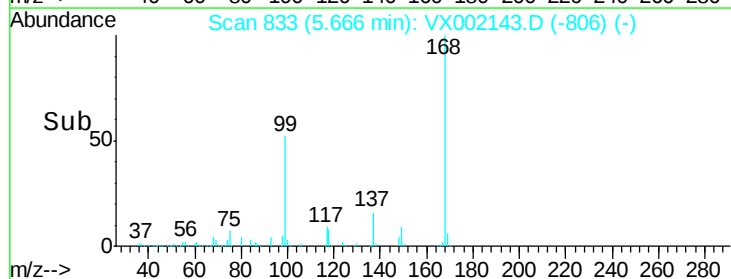
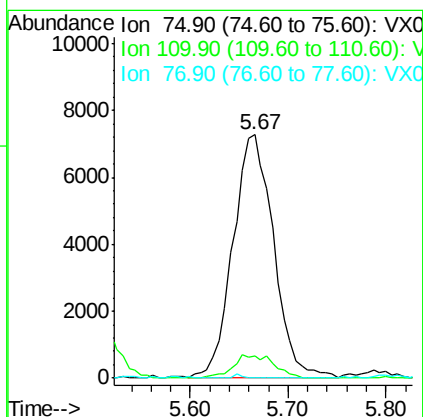
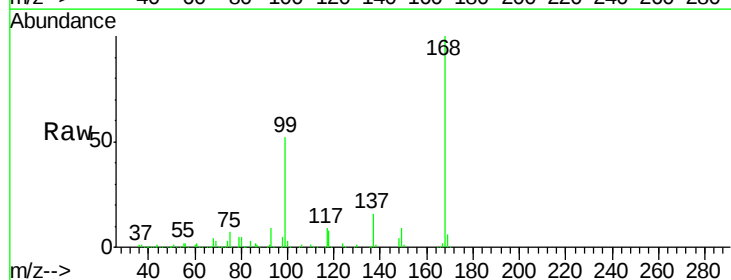
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0530WBL02

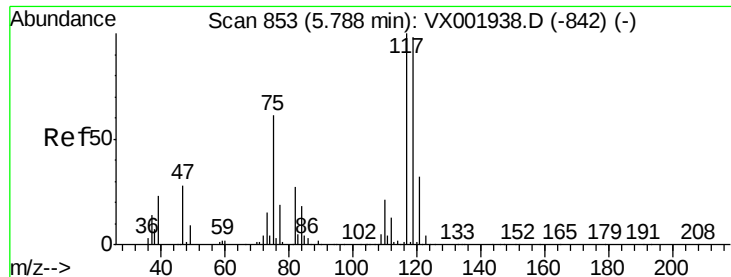
Tgt Ion:113 Resp: 194431
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.0 123.0
 192 23.2 18.9 28.3



#36
 1,1-Dichloropropene
 Concen: 3.59 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002143.D
 Acq: 30 May 2018 17:23

Tgt Ion: 75 Resp: 21024
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.4 52.2#
 77 0.3 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 3.93 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

VX0530WBL02

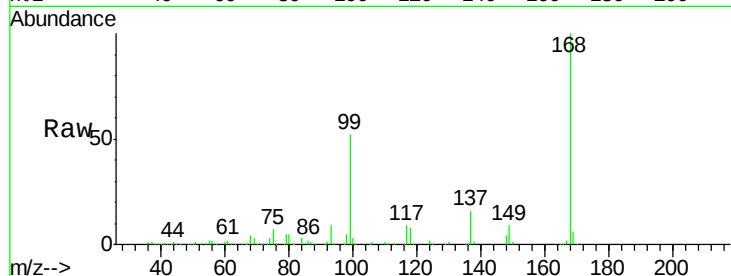
Tgt Ion: 117 Resp: 26865

Ion Ratio Lower Upper

117 100

119 5.3 78.5 117.7#

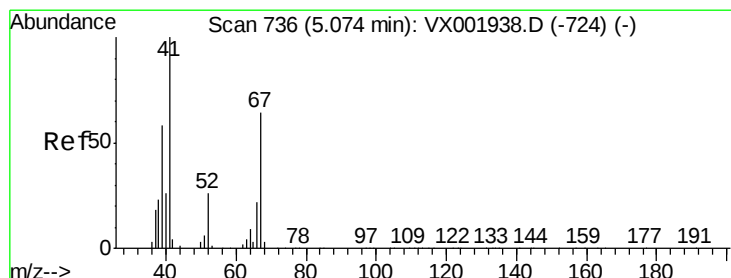
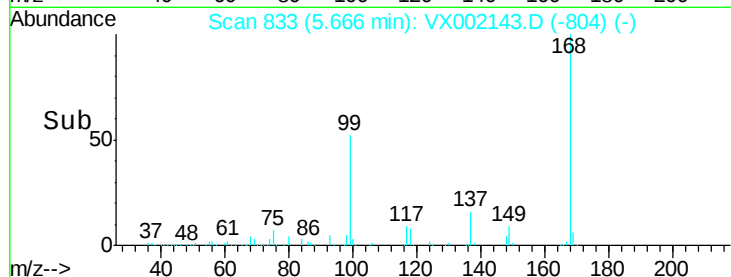
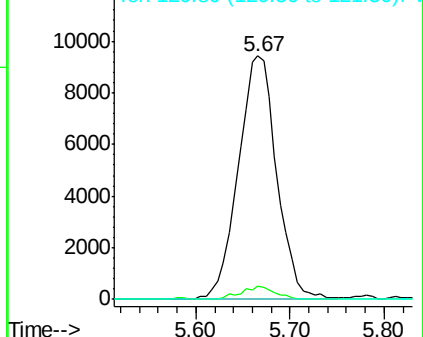
121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.05 min Scan# 732

Delta R.T. -0.02 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Tgt Ion: 41 Resp: 229

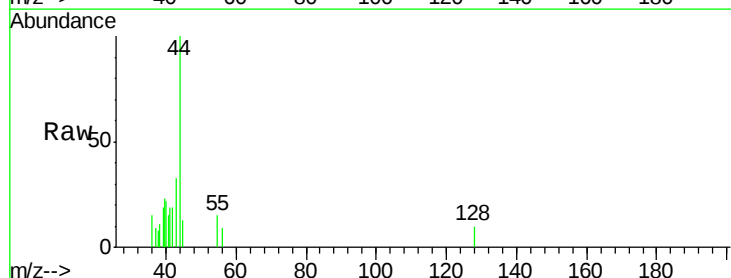
Ion Ratio Lower Upper

41 100

39 62.0 46.0 69.0

67 29.7 50.6 75.8#

52 0.0 21.9 32.9#

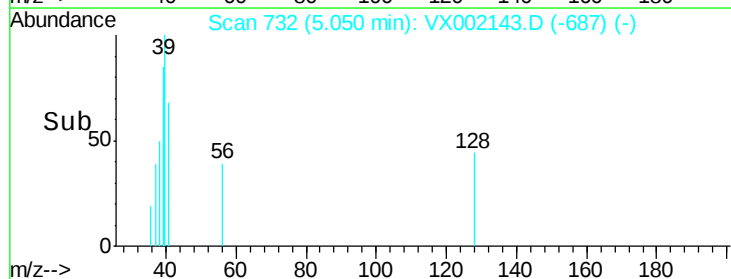
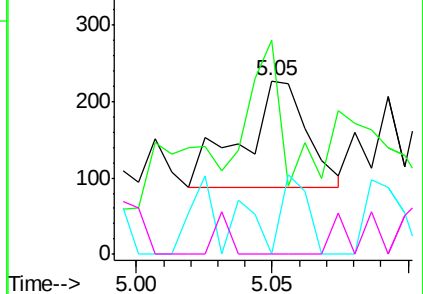


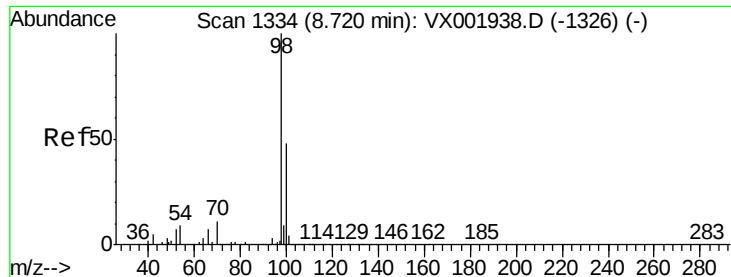
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 50.11 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

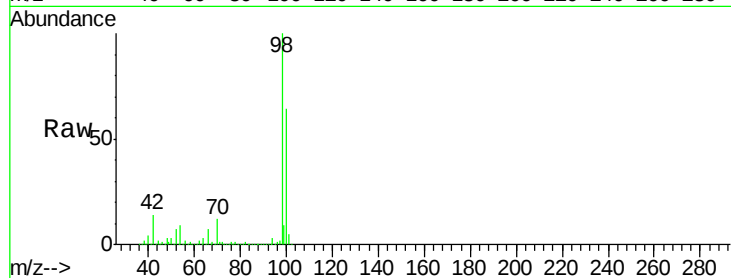
VX0530WBL02

Tgt Ion: 98 Resp: 763842

Ion Ratio Lower Upper

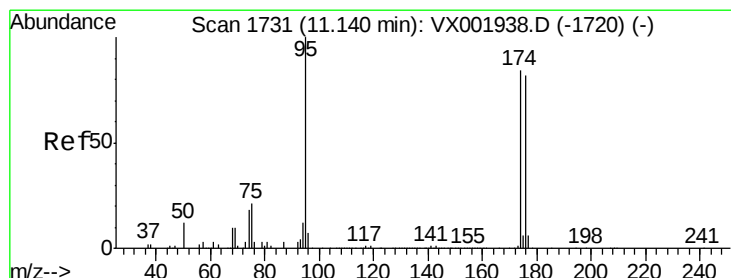
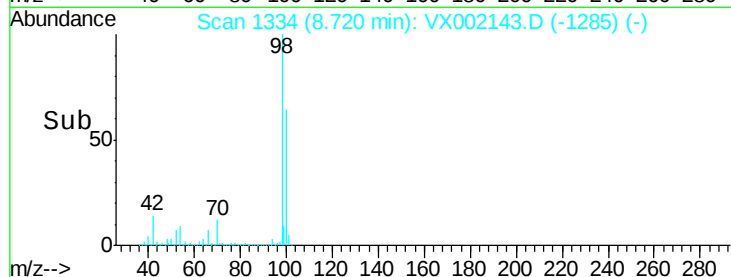
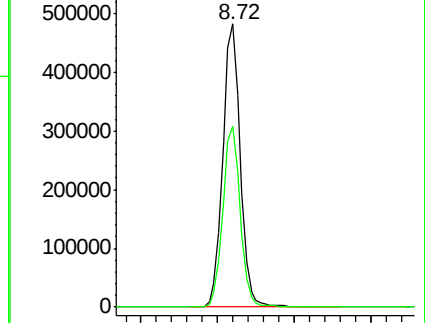
98 100

100 63.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 46.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

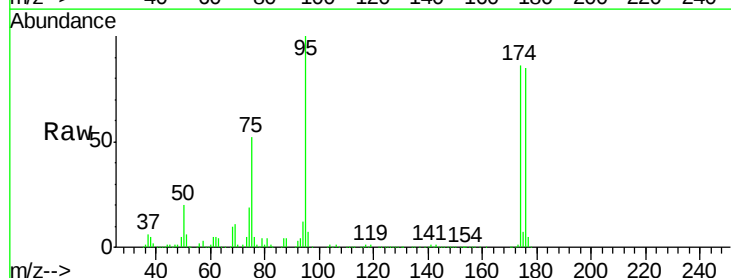
Tgt Ion: 95 Resp: 275960

Ion Ratio Lower Upper

95 100

174 91.4 0.0 178.8

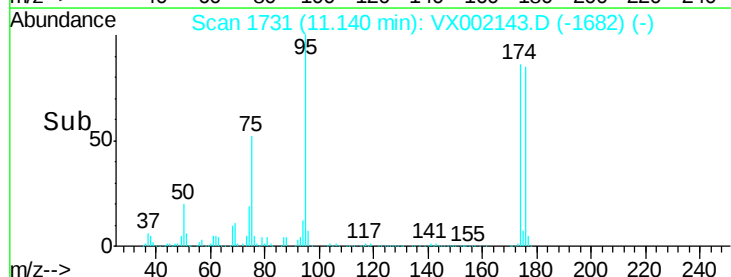
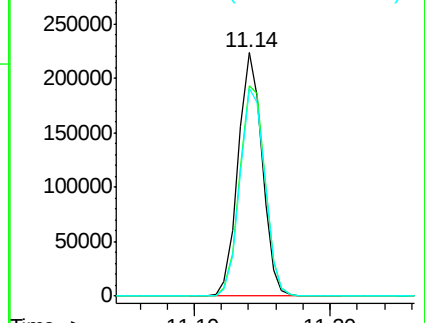
176 89.0 0.0 175.6

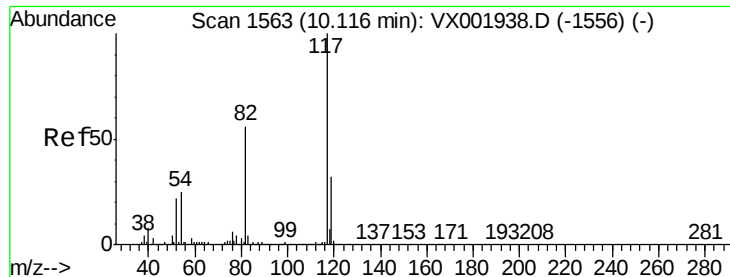


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

VX0530WBL02

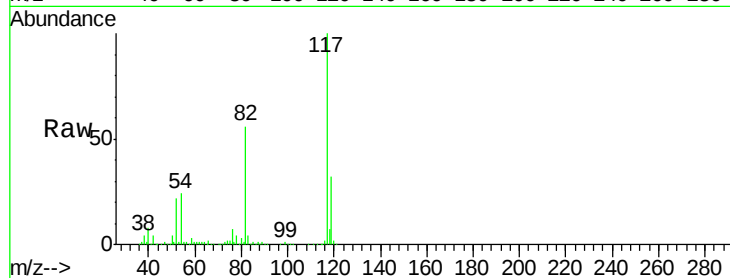
Tgt Ion:117 Resp: 376856

Ion Ratio Lower Upper

117 100

82 56.0 44.8 67.2

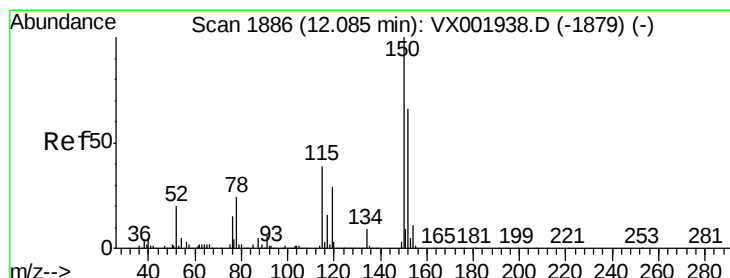
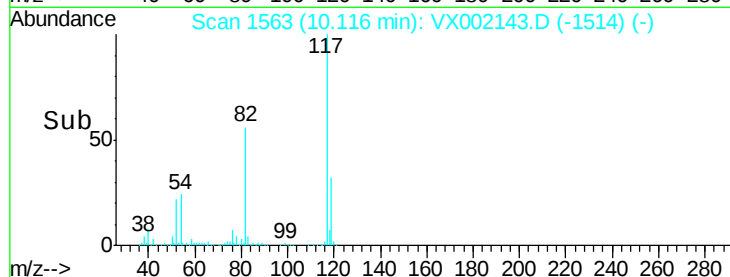
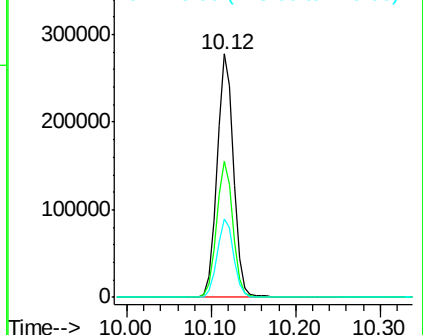
119 32.0 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

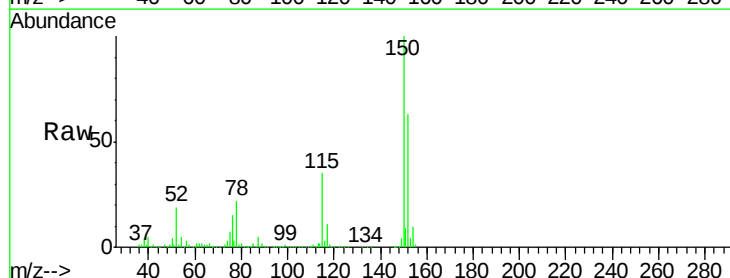
Tgt Ion:152 Resp: 209749

Ion Ratio Lower Upper

152 100

115 55.6 42.3 126.8

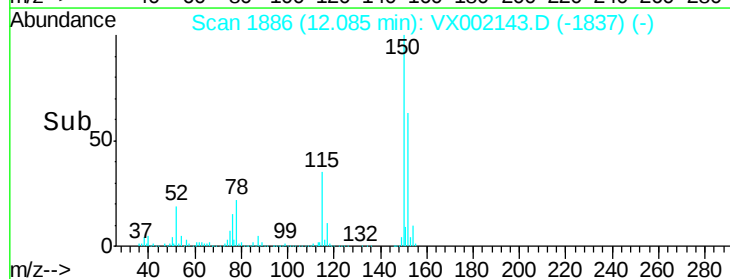
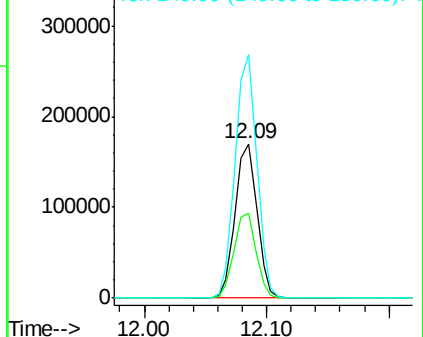
150 157.4 0.0 351.0

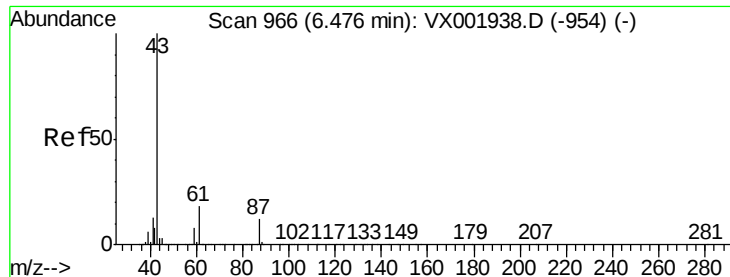


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: Below Cal

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

VX0530WBL02

Tgt Ion: 43 Resp: 59

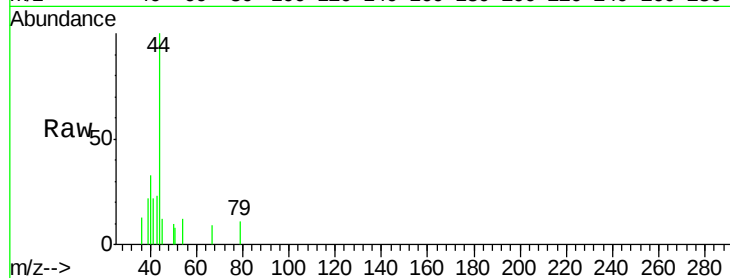
Ion Ratio Lower Upper

43 100

70 40.7 0.1 0.1#

55 178.0 0.1 0.1#

61 0.0 14.5 21.7#



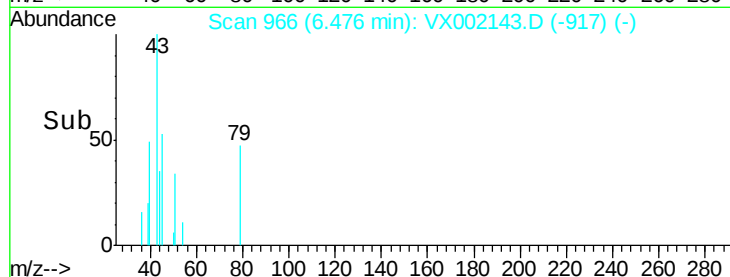
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

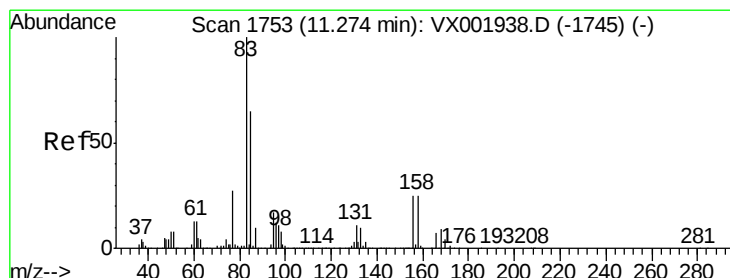
Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Time-->



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.27 min Scan# 1753

Delta R.T. 0.00 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

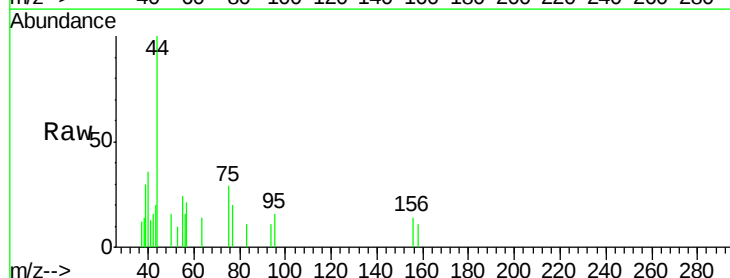
Tgt Ion: 83 Resp: 41

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 0.0 32.6 97.7#

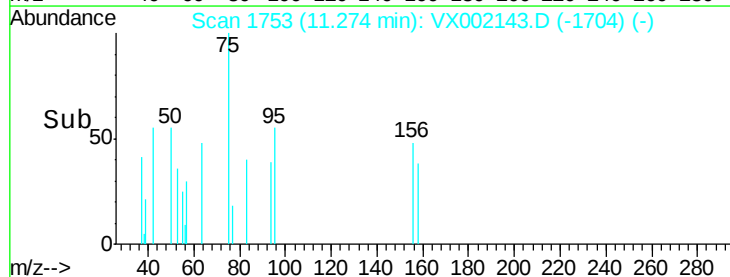


Abundance Ion 82.90 (82.60 to 83.60): VX0

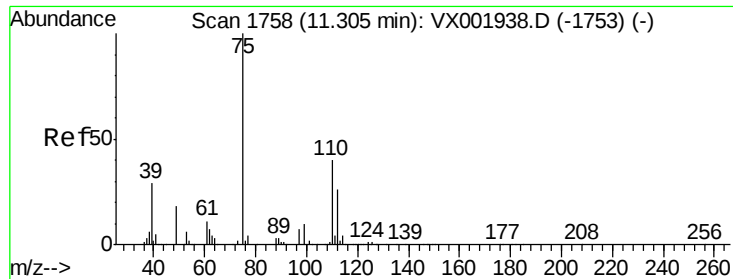
Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 28.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

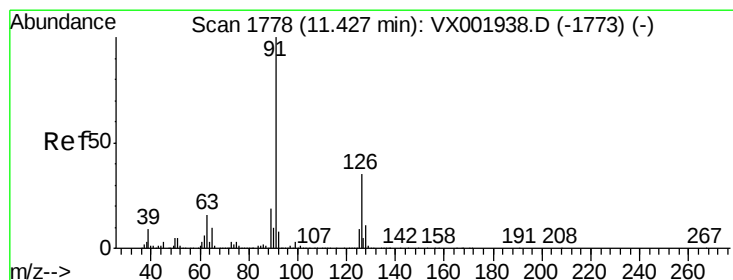
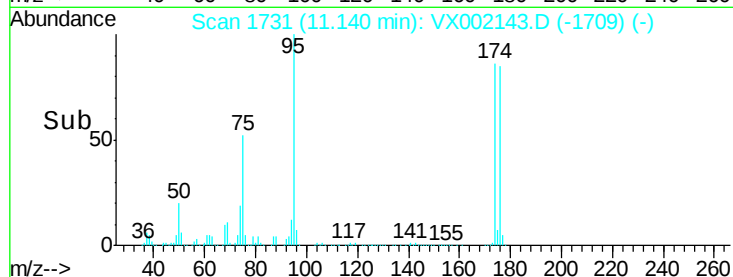
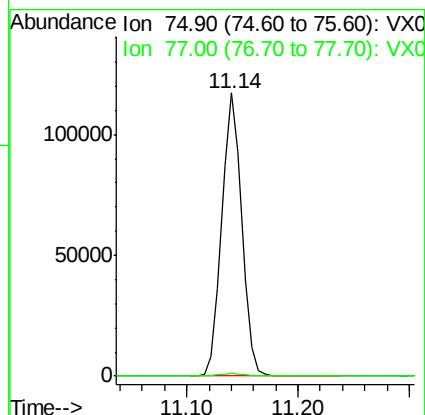
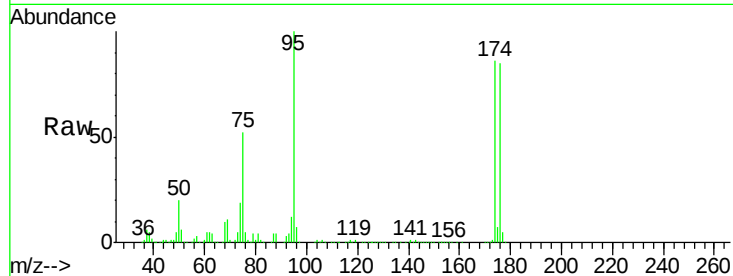
VX0530WBL02

Tgt Ion: 75 Resp: 145860

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.42 min Scan# 1777

Delta R.T. -0.01 min

Lab File: VX002143.D

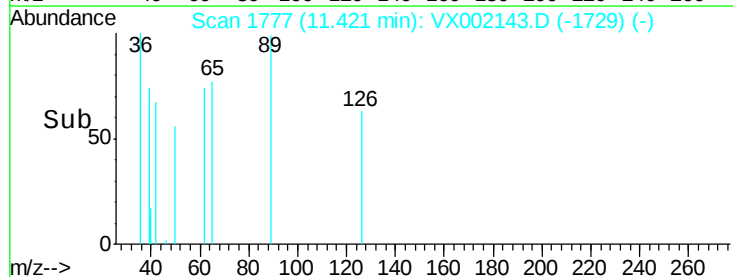
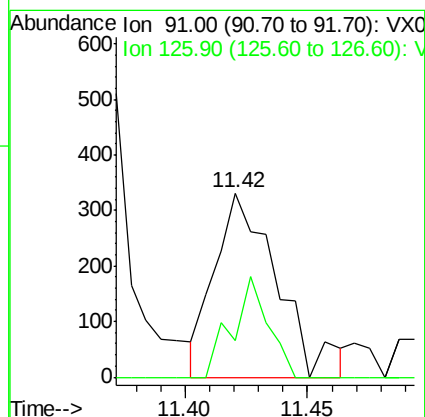
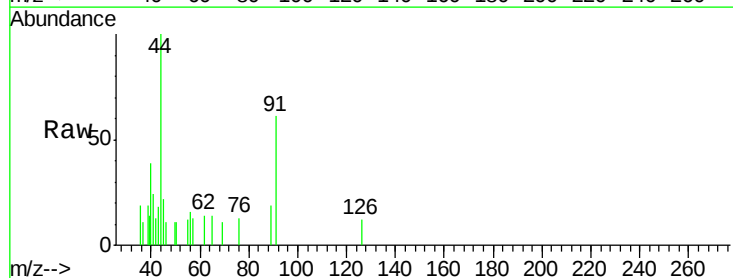
Acq: 30 May 2018 17:23

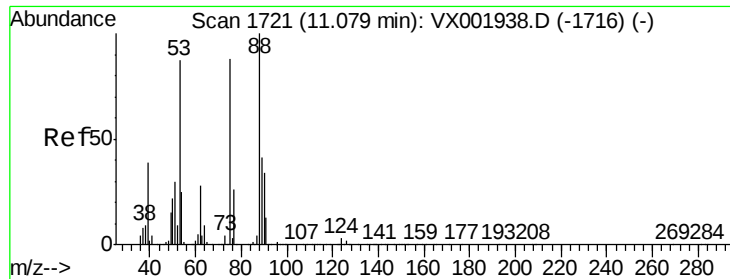
Tgt Ion: 91 Resp: 591

Ion Ratio Lower Upper

91 100

126 31.1 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 69.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002143.D

Acq: 30 May 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

VX0530WBL02

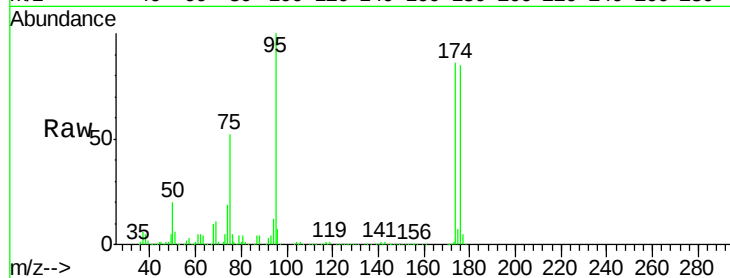
Tgt Ion: 75 Resp: 145860

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#



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

