

Data File : VX001987.D
Acq On : 25 May 2018 19:43
Operator : JC/MD
Sample : J3064-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-29

Quant Time: May 26 00:46:43 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	310486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	474455	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	431677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	236503	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	284975	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
35) Dibromofluoromethane	5.51	113	221548	46.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.40%	
50) Toluene-d8	8.72	98	807698	47.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.04%	
62) 4-Bromofluorobenzene	11.14	95	299821	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	

Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.20	85	392	Below Cal	#	41
5) Bromomethane	1.61	94	128	Below Cal	#	59
10) Methyl Iodide	2.52	142	1669	0.32	ug/l	# 91
11) Tert butyl alcohol	3.08	59	2675	2.46	ug/l	97
13) Acrolein	2.29	56	272	0.58	ug/l	# 57
16) Acetone	2.45	43	16075	7.51	ug/l	100
18) Methyl Acetate	2.78	43	1302	Below Cal	#	89
19) Methyl tert-butyl Ether	3.21	73	2892	0.21	ug/l	95
20) Methylene Chloride	2.86	84	1515	Below Cal	#	81
21) trans-1,2-Dichloroethene	3.15	96	298	Below Cal	#	25
25) 2-Butanone	4.73	43	1180	0.30	ug/l	# 84
28) Bromochloromethane	5.03	49	79	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	21262	3.22	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	28410	3.69	ug/l	# 15
41) Methacrylonitrile	5.09	41	483	Below Cal	#	47
74) N-amyl acetate	6.49	43	239	Below Cal	#	96
75) 1,1,2,2-Tetrachloroethane	11.28	83	786	Below Cal	#	45
76) 1,2,3-Trichloropropane	11.14	75	155698	27.41	ug/l	# 32
79) 2-Chlorotoluene	11.43	91	473	Below Cal		87
81) trans-1,4-Dichloro-2-buten	11.14	75	155698	65.87	ug/l	# 10

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

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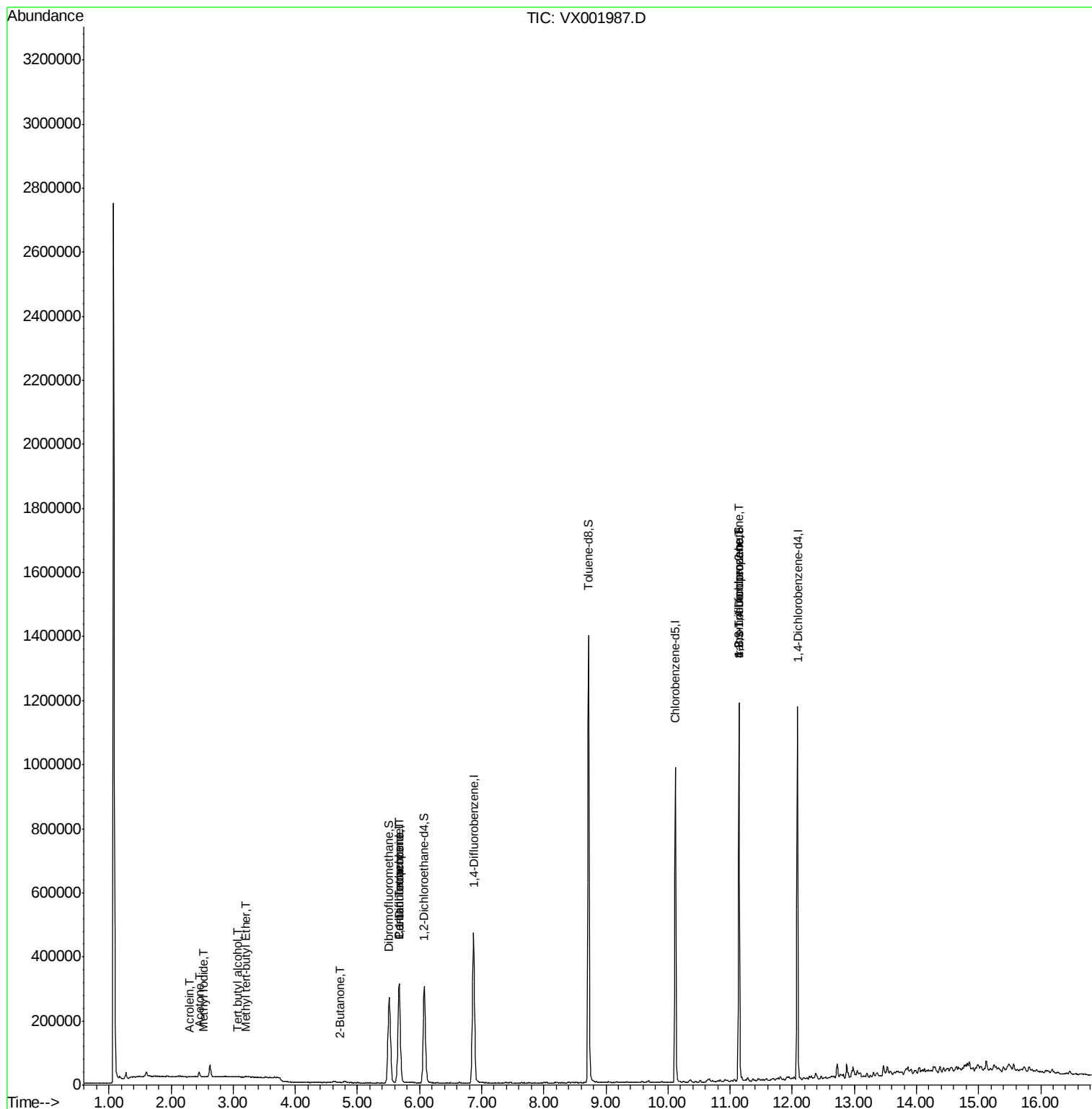
Quant Time: May 26 00:46:43 2018

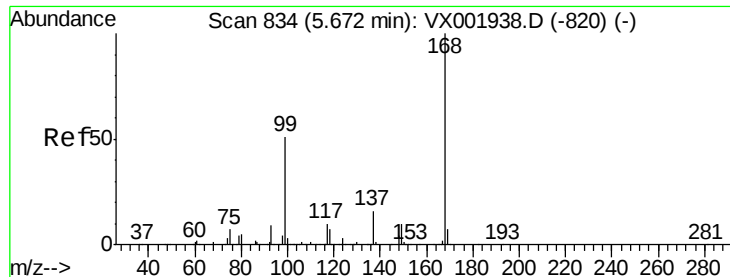
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M

Quant Title : SW846 8260

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

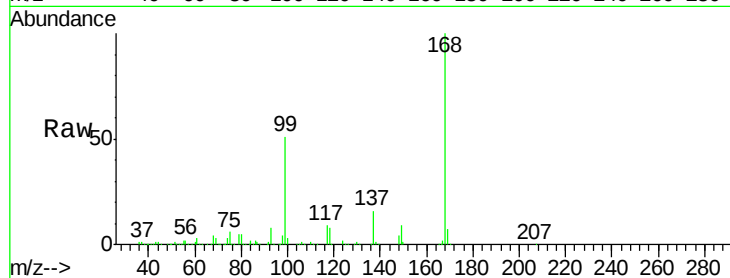
MW-29

Tgt Ion:168 Resp: 310486

Ion Ratio Lower Upper

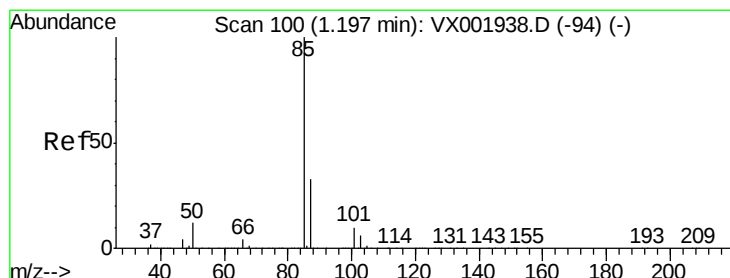
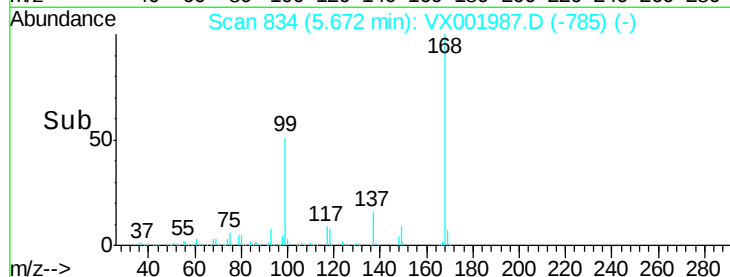
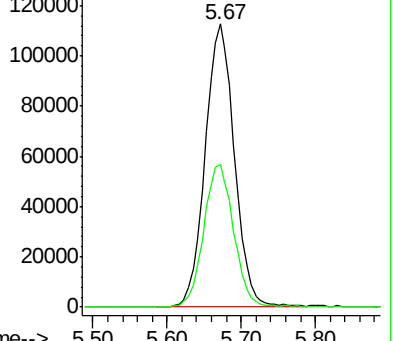
168 100

99 50.6 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX001987.D

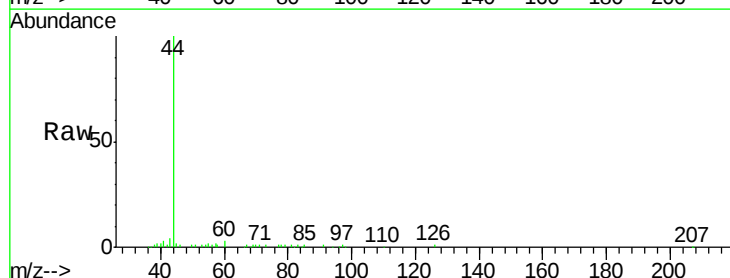
Acq: 25 May 2018 19:43

Tgt Ion: 85 Resp: 392

Ion Ratio Lower Upper

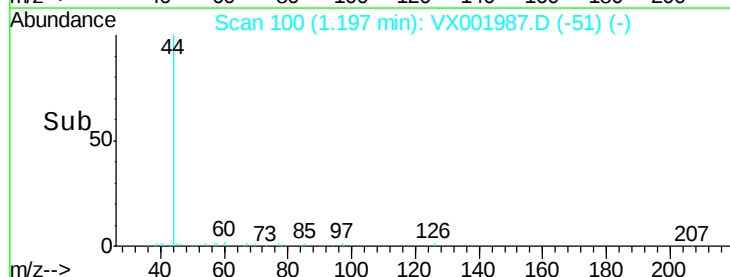
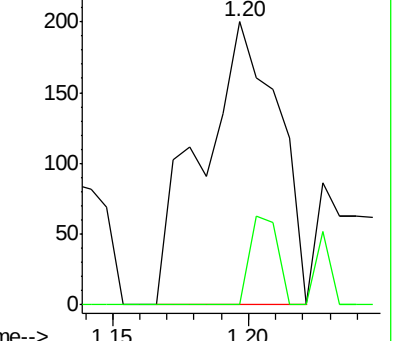
85 100

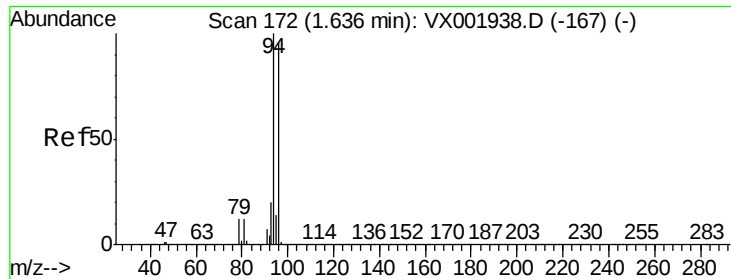
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampled :

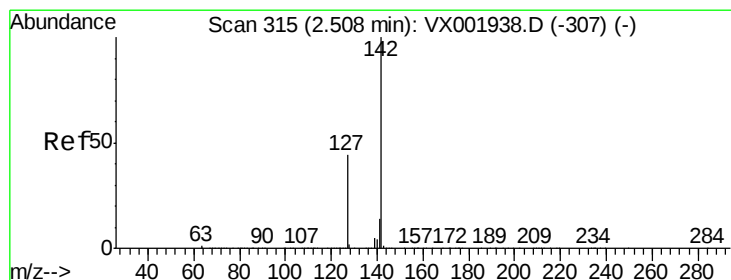
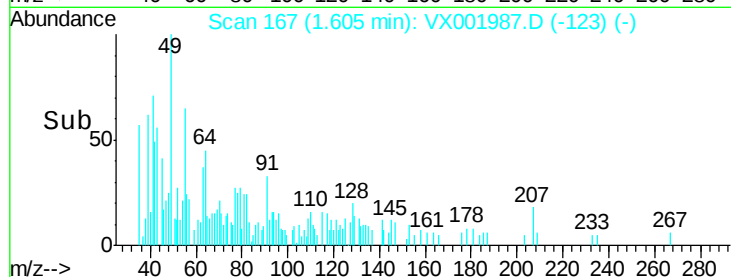
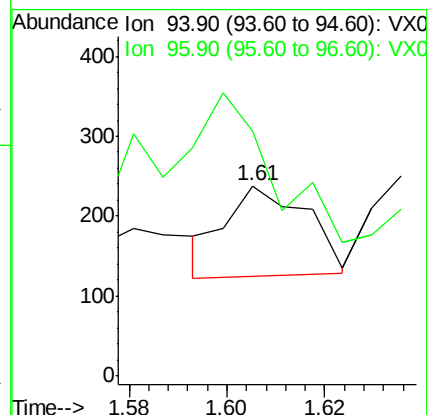
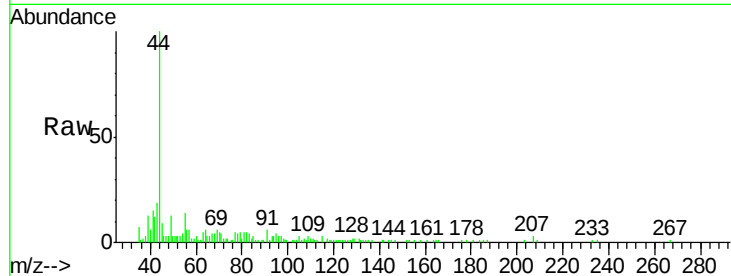
MW-29

Tgt Ion: 94 Resp: 128

Ion Ratio Lower Upper

94 100

96 135.0 75.9 113.9#



#10

Methyl Iodide

Concen: 0.32 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

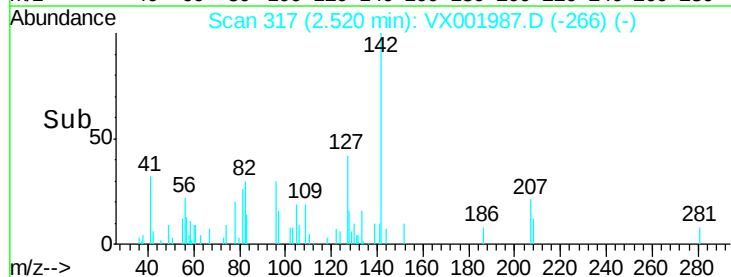
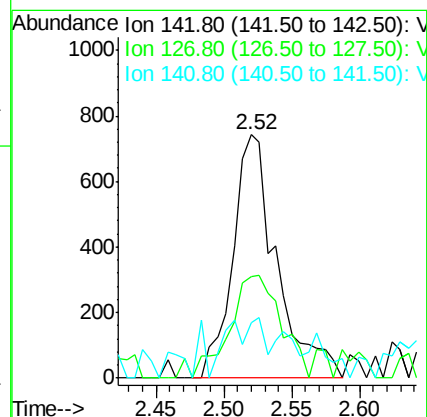
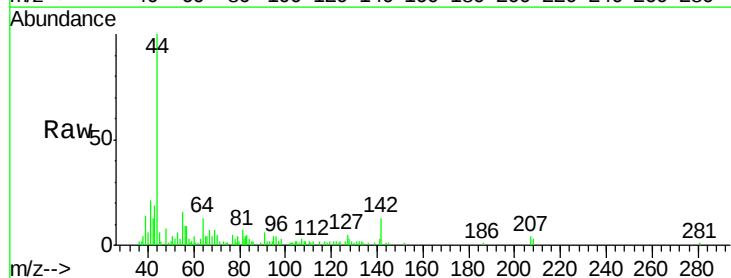
Tgt Ion: 142 Resp: 1669

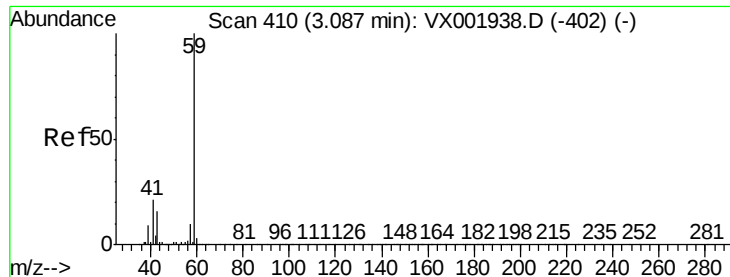
Ion Ratio Lower Upper

142 100

127 50.7 35.5 53.3

141 11.1 11.3 16.9#



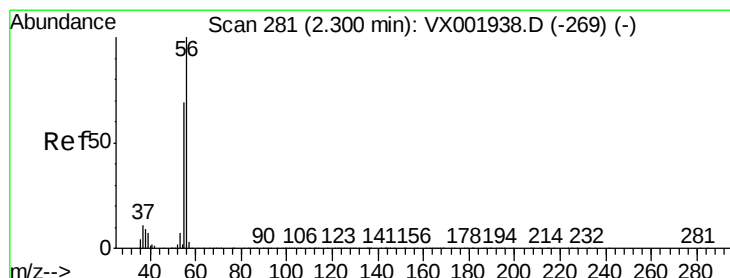
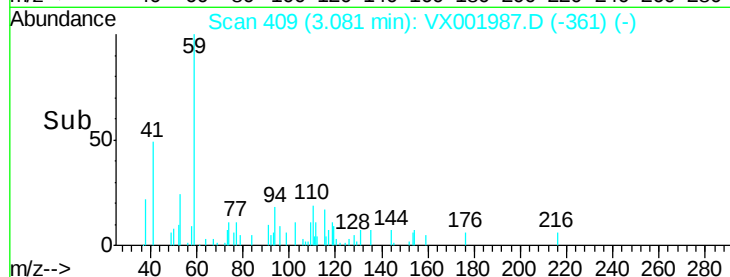
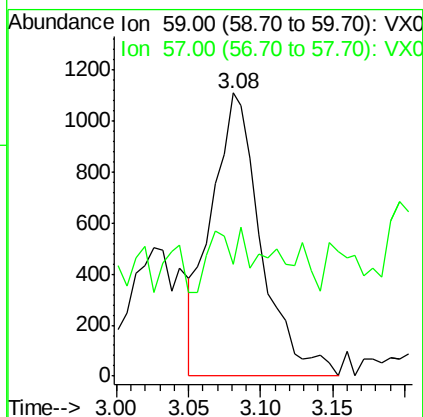
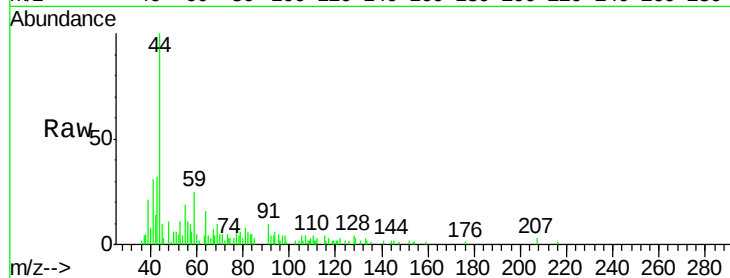


#11

Tert butyl alcohol
Concen: 2.46 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX001987.D
Acq: 25 May 2018 19:43

Instrument :
MSVOA_X
ClientSampled :
MW-29

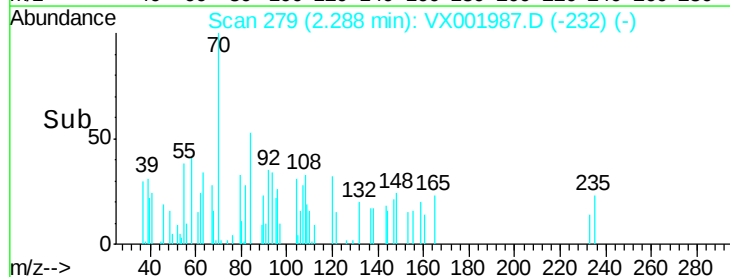
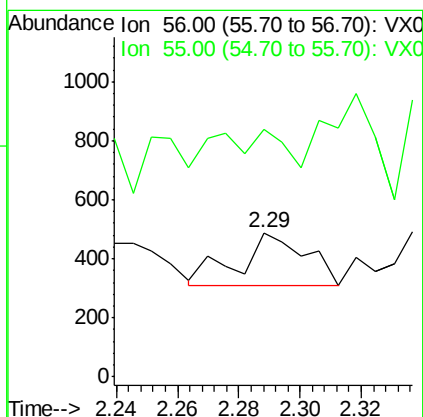
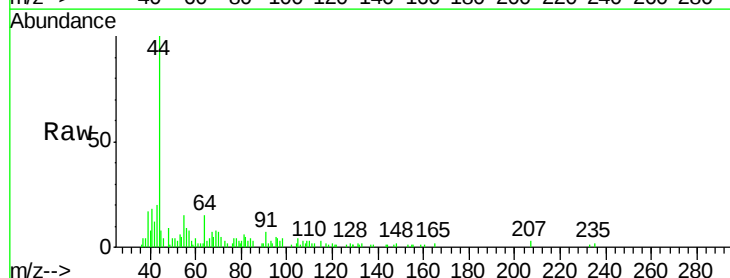
Tgt Ion: 59 Resp: 2675
Ion Ratio Lower Upper
59 100
57 9.9 8.9 13.3

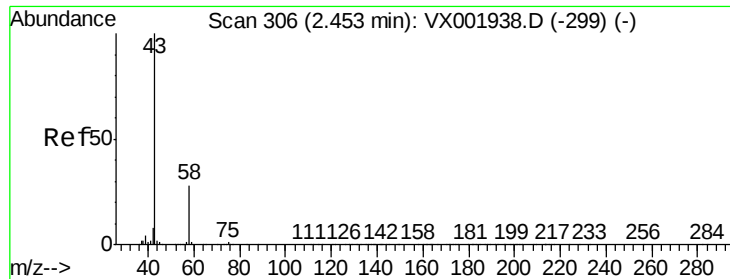


#13

Acrolein
Concen: 0.58 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX001987.D
Acq: 25 May 2018 19:43

Tgt Ion: 56 Resp: 272
Ion Ratio Lower Upper
56 100
55 35.7 56.8 85.2#





#16

Acetone

Concen: 7.51 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

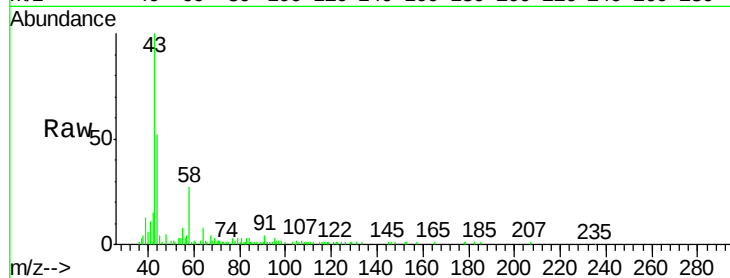
MW-29

Tgt Ion: 43 Resp: 16075

Ion Ratio Lower Upper

43 100

58 27.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

12000

10000

8000

6000

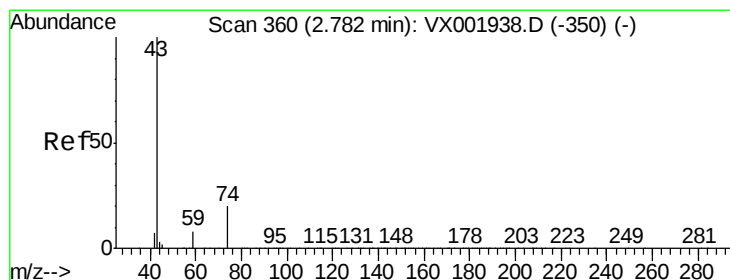
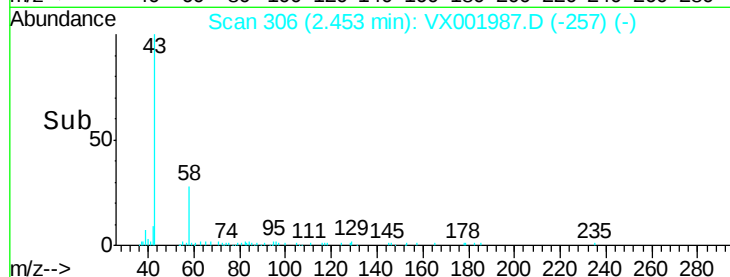
4000

2000

0

Time-->

2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX001987.D

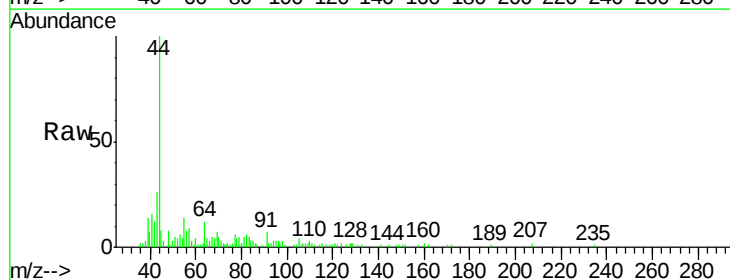
Acq: 25 May 2018 19:43

Tgt Ion: 43 Resp: 1302

Ion Ratio Lower Upper

43 100

74 26.0 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1500

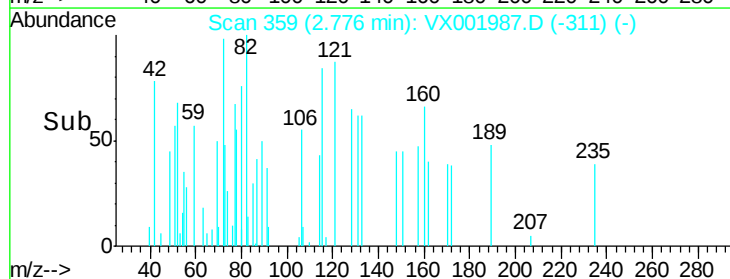
1000

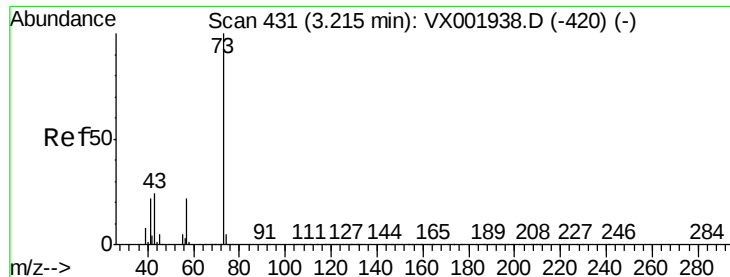
500

0

Time-->

2.75 2.80





#19

Methyl tert-butyl Ether

Concen: 0.21 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

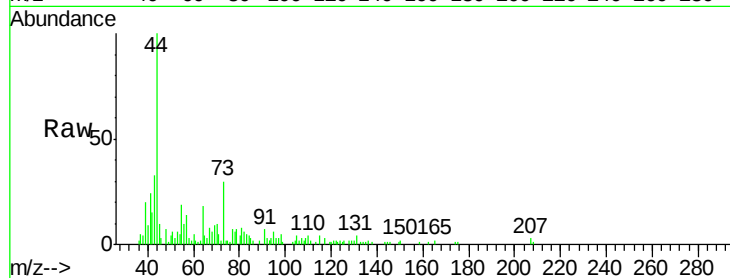
MW-29

Tgt Ion: 73 Resp: 2892

Ion Ratio Lower Upper

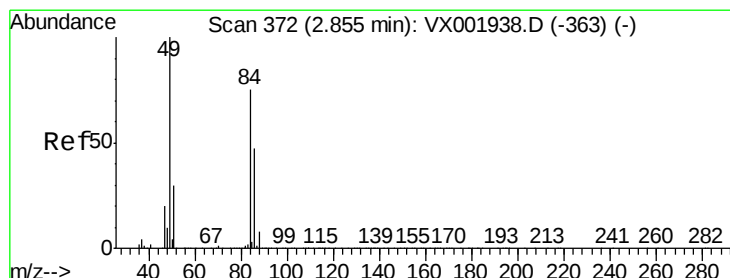
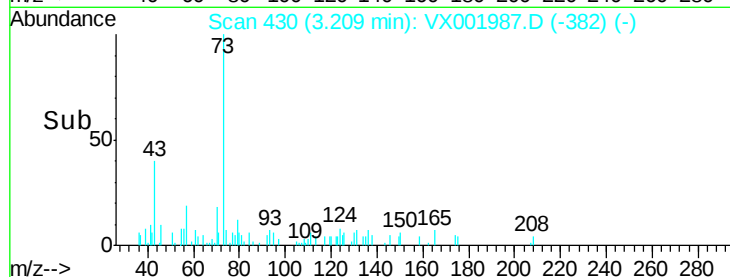
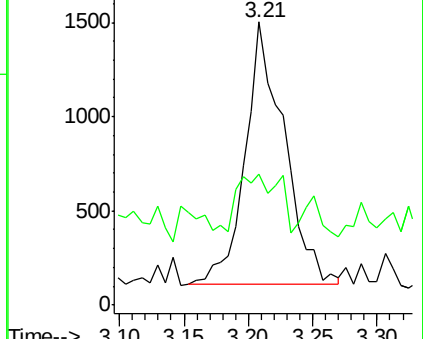
73 100

57 24.3 17.4 26.0



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Tgt Ion: 84 Resp: 1515

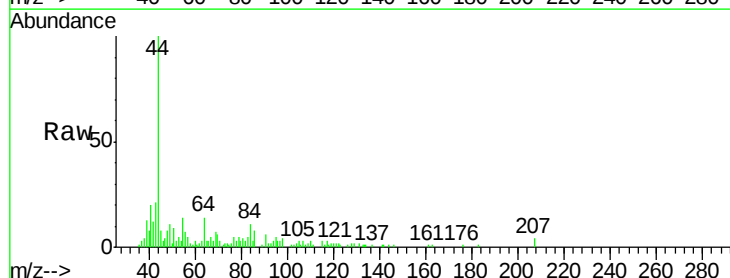
Ion Ratio Lower Upper

84 100

49 110.1 107.2 160.8

51 57.7 32.4 48.6#

86 71.1 50.4 75.6

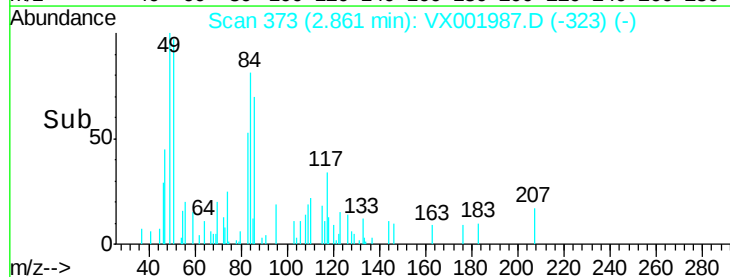
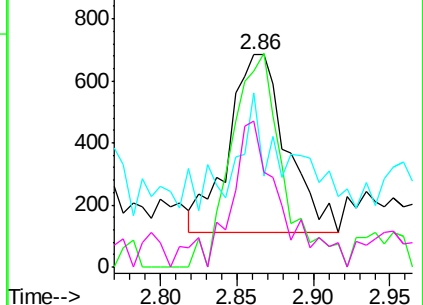


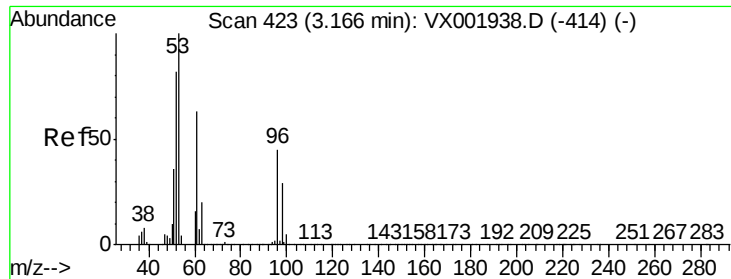
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. -0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

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ClientSampleId :

MW-29

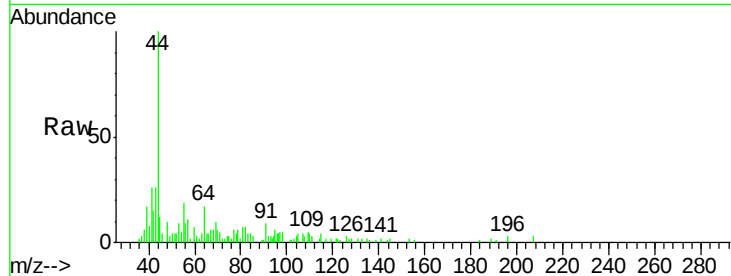
Tgt Ion: 96 Resp: 298

Ion Ratio Lower Upper

96 100

61 46.0 113.3 169.9#

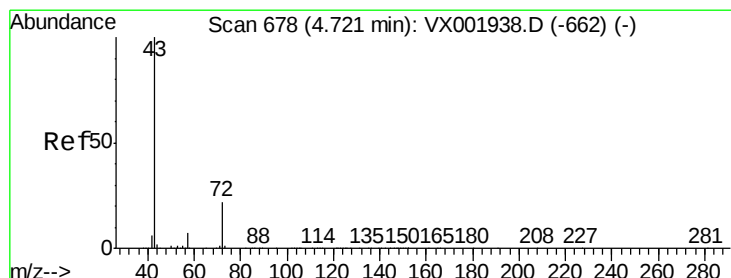
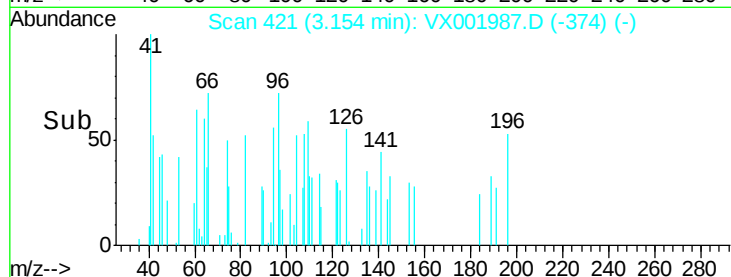
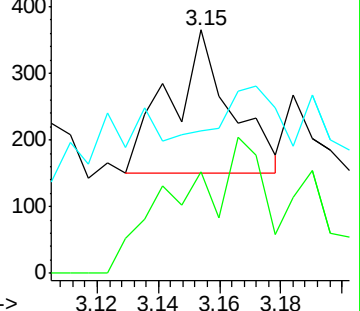
98 11.6 51.7 77.5#



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



#25

2-Butanone

Concen: 0.30 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX001987.D

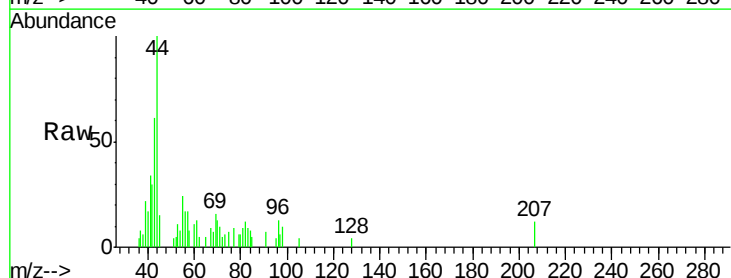
Acq: 25 May 2018 19:43

Tgt Ion: 43 Resp: 1180

Ion Ratio Lower Upper

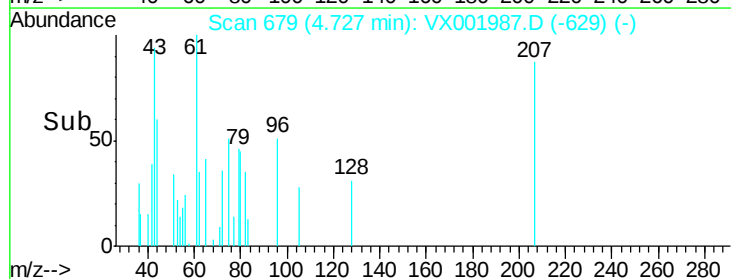
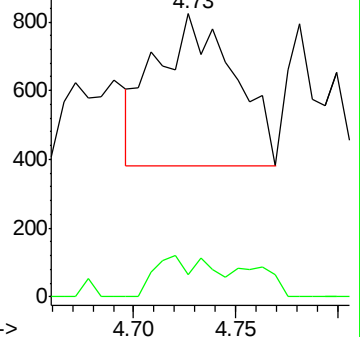
43 100

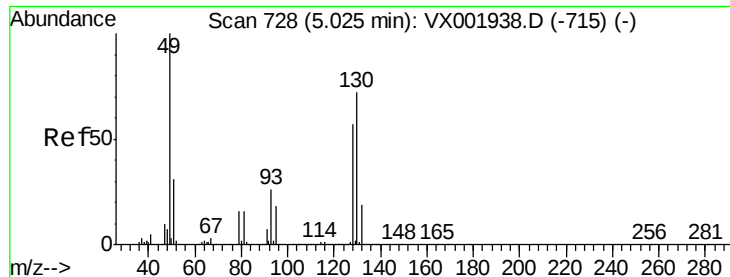
72 14.5 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

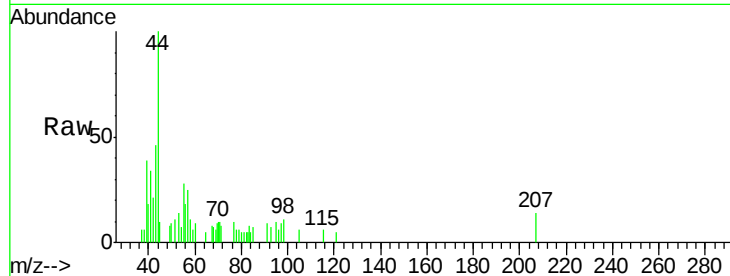
Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :
MSVOA_X
ClientSampled :
MW-29

Tgt Ion: 49 Resp: 79

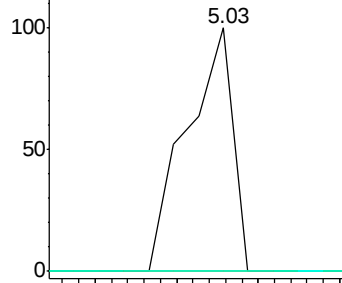
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



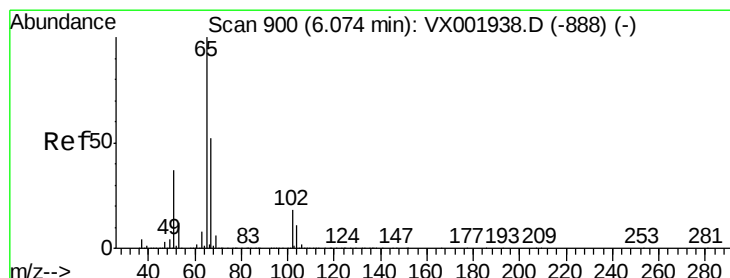
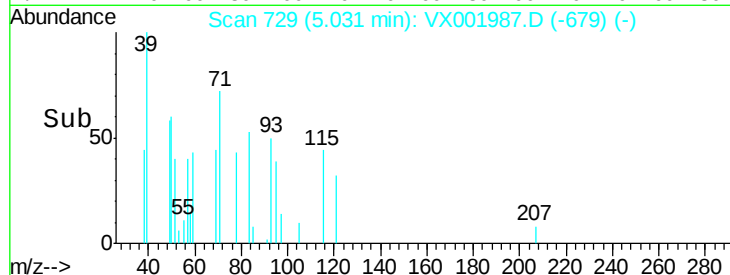
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.35 ug/l

RT: 6.07 min Scan# 900

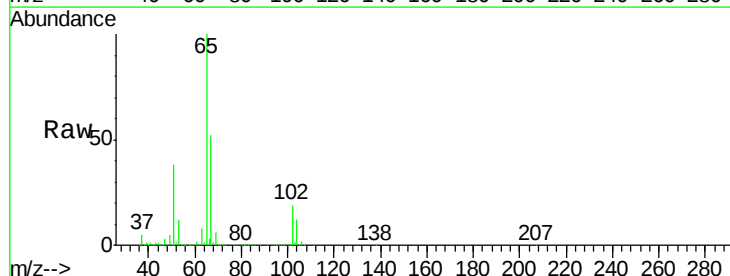
Delta R.T. -0.00 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

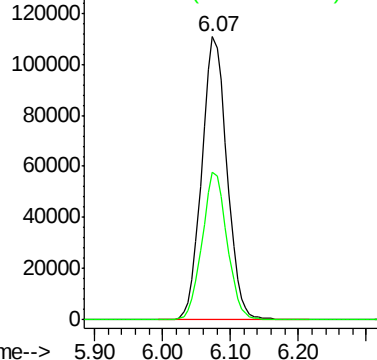
Tgt Ion: 65 Resp: 284975

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.0

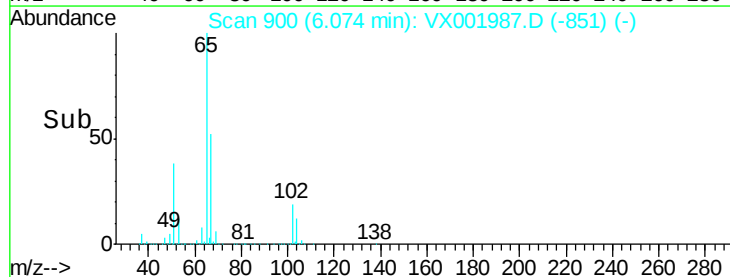


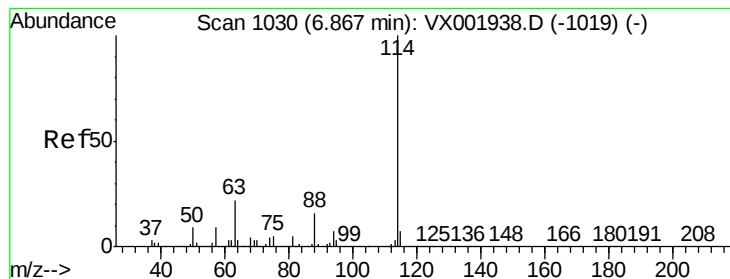
Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampled :

MW-29

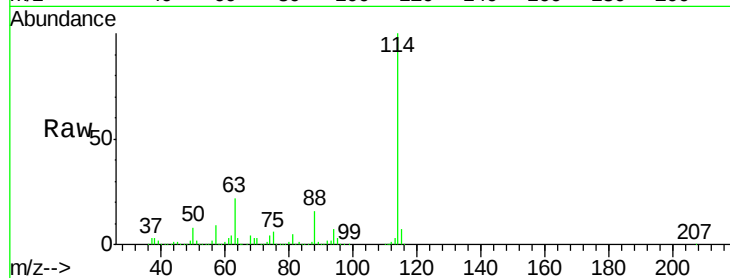
Tgt Ion:114 Resp: 474455

Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.2

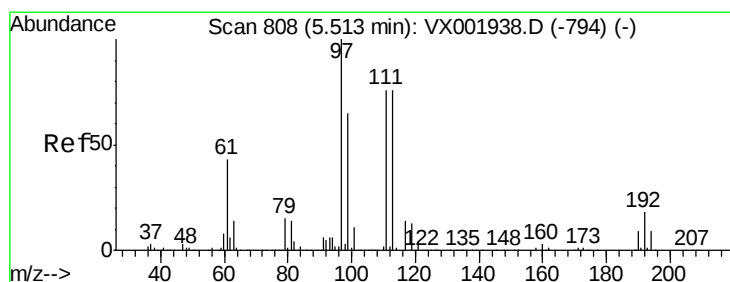
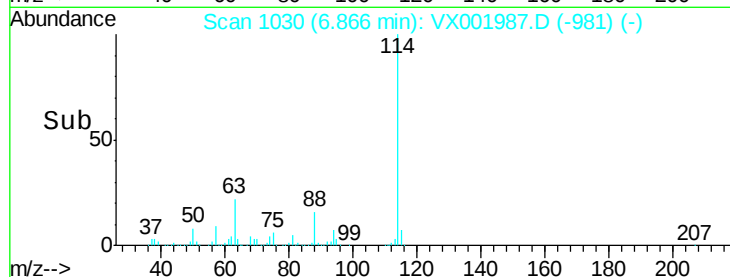
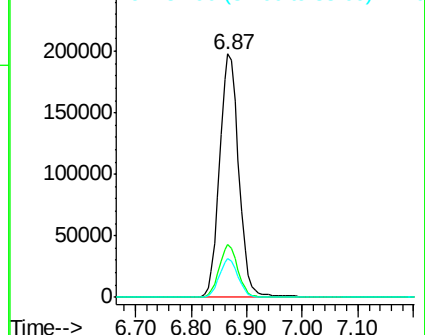
88 16.2 0.0 31.6



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: 46.70 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

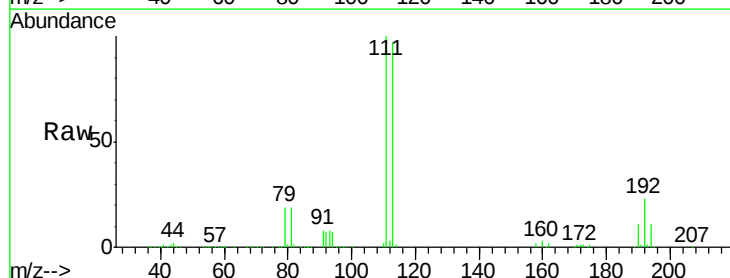
Tgt Ion:113 Resp: 221548

Ion Ratio Lower Upper

113 100

111 103.3 82.0 123.0

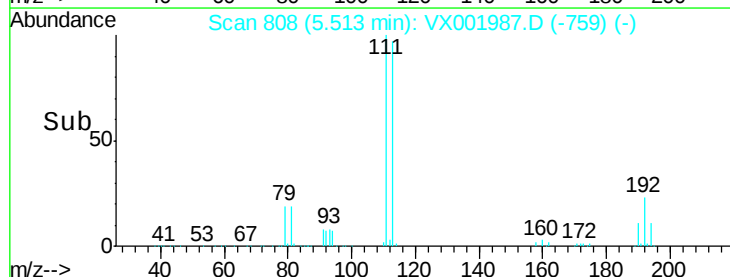
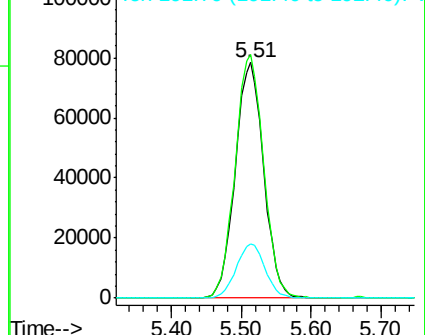
192 23.5 18.9 28.3

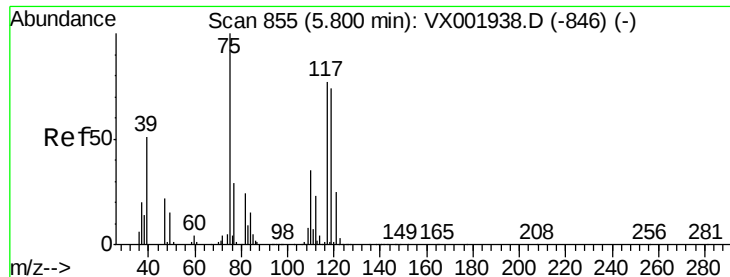


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

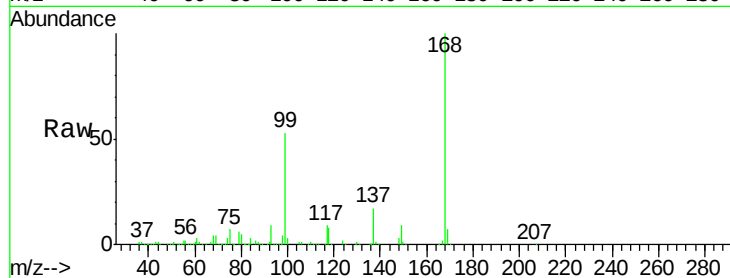




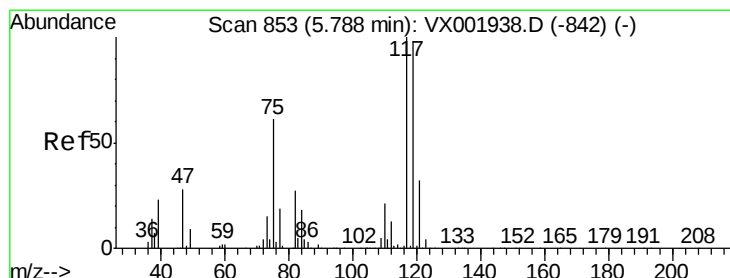
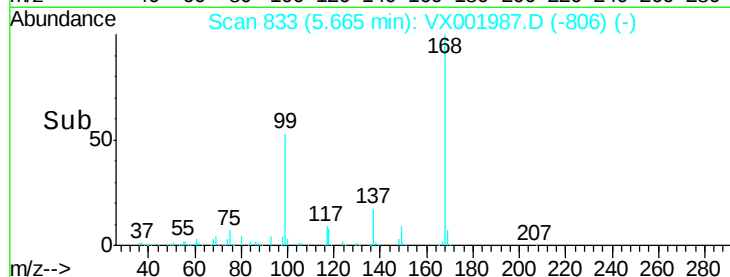
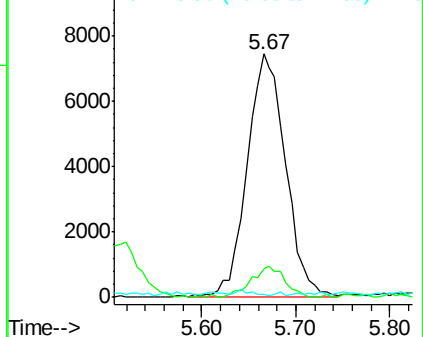
#36
 1,1-Dichloropropene
 Concen: 3.22 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX001987.D
 Acq: 25 May 2018 19:43

Instrument :
 MSVOA_X
 ClientSampled :
 MW-29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	17.4	52.2#
77	0.2	24.4	36.6#

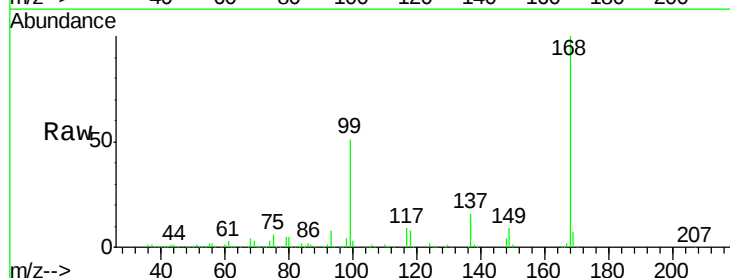


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

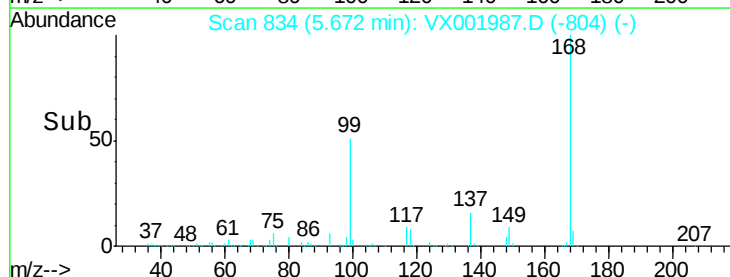
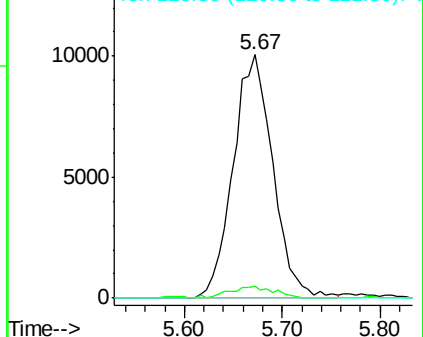


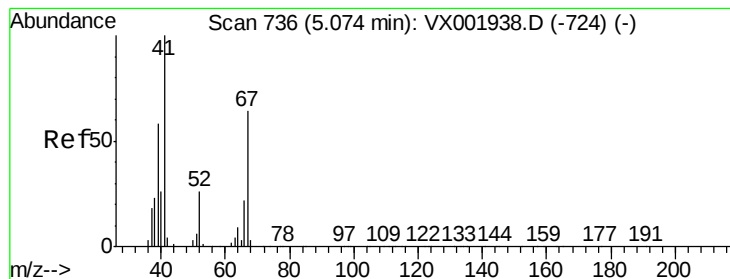
#38
 Carbon Tetrachloride
 Concen: 3.69 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX001987.D
 Acq: 25 May 2018 19:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	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: 5.09 min Scan# 738

Delta R.T. 0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

MW-29

Tgt Ion: 41 Resp: 483

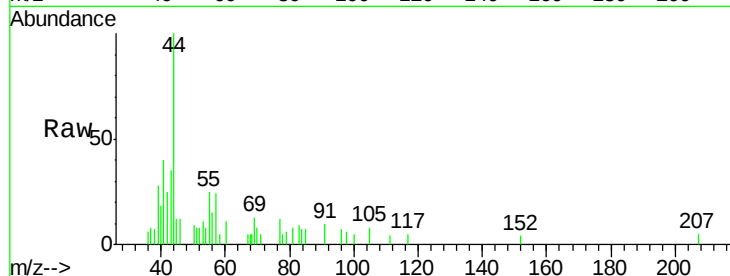
Ion Ratio Lower Upper

41 100

39 18.8 46.0 69.0#

67 10.1 50.6 75.8#

52 15.9 21.9 32.9#

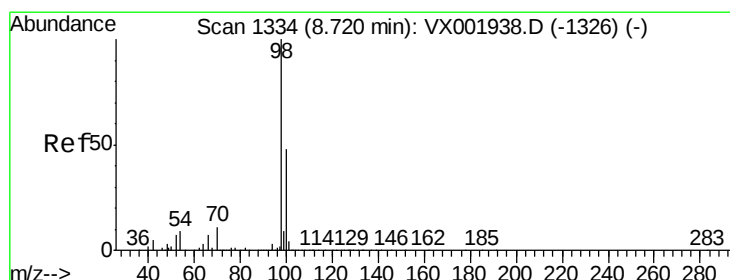
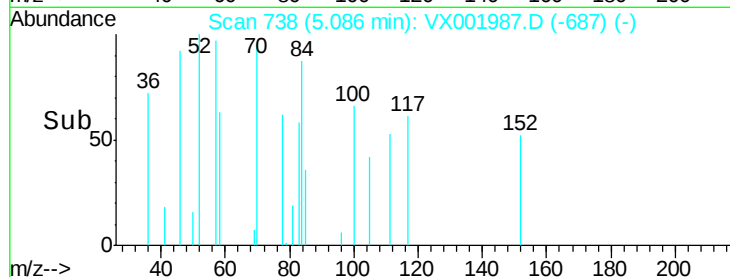
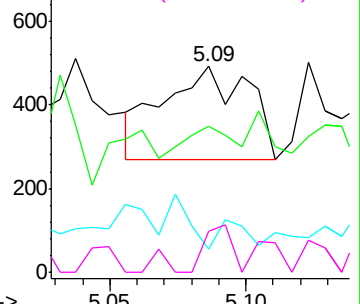


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 47.02 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001987.D

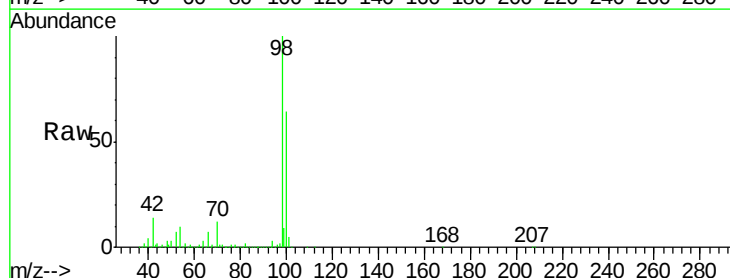
Acq: 25 May 2018 19:43

Tgt Ion: 98 Resp: 807698

Ion Ratio Lower Upper

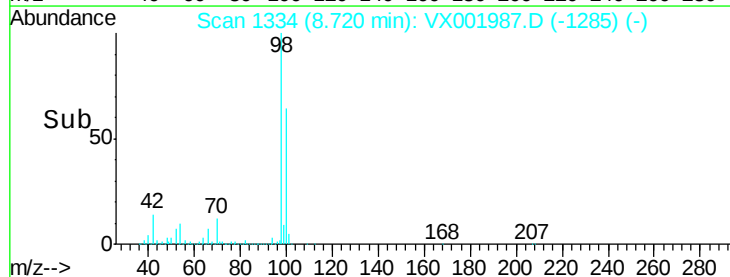
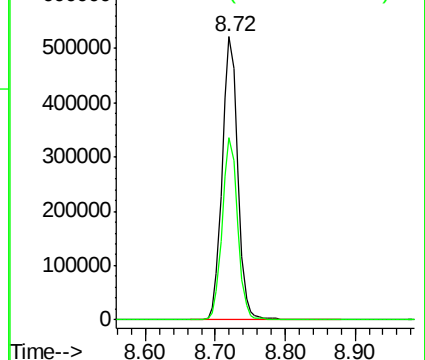
98 100

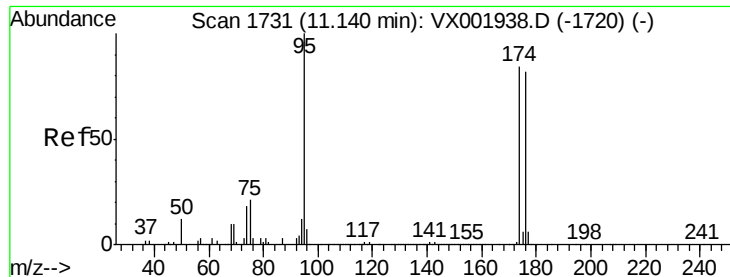
100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

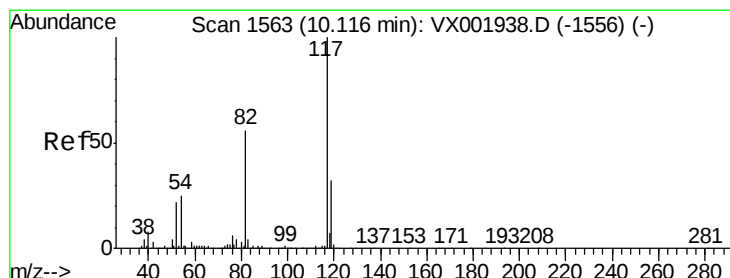
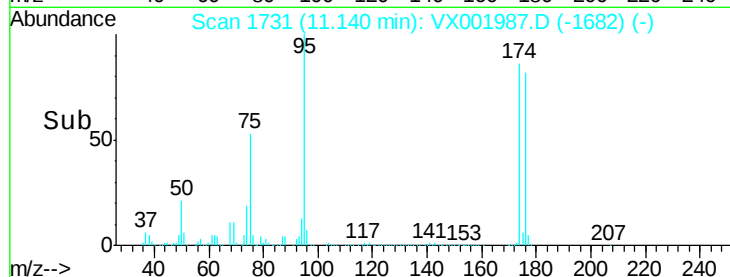
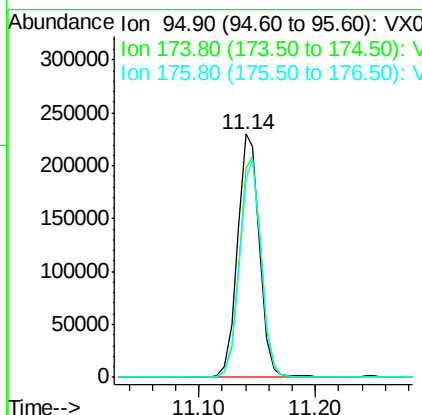
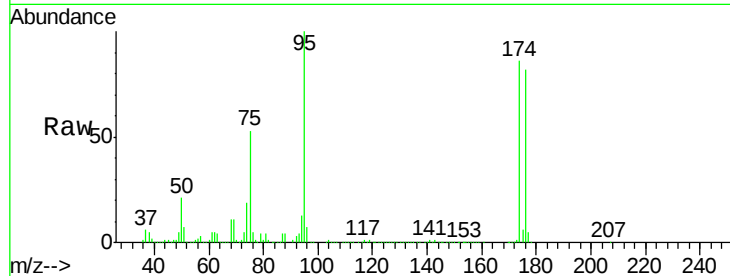




#62
4-Bromofluorobenzene
Concen: 44.61 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001987.D
Acq: 25 May 2018 19:43

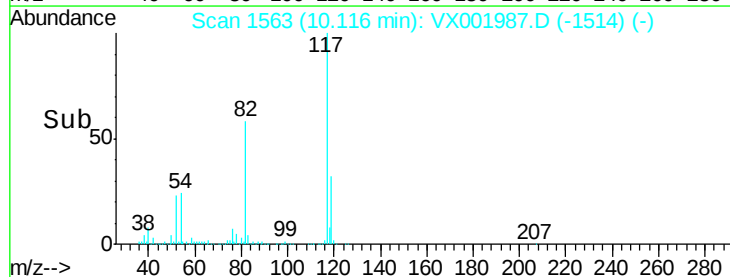
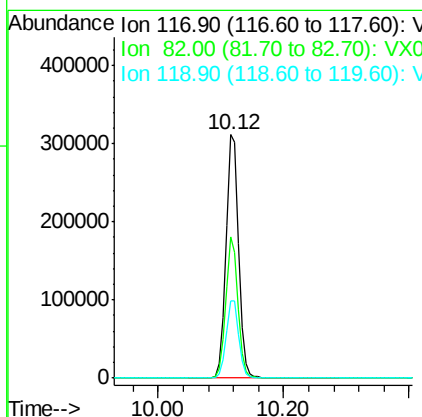
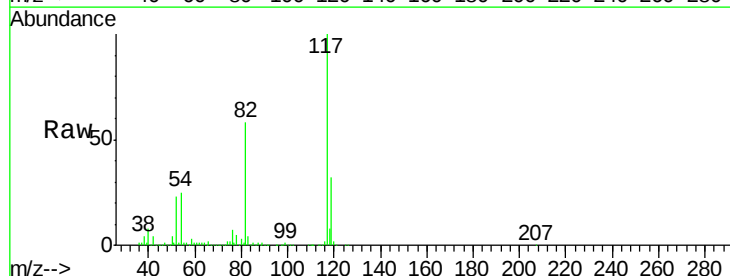
Instrument :
MSVOA_X
ClientSampleId :
MW-29

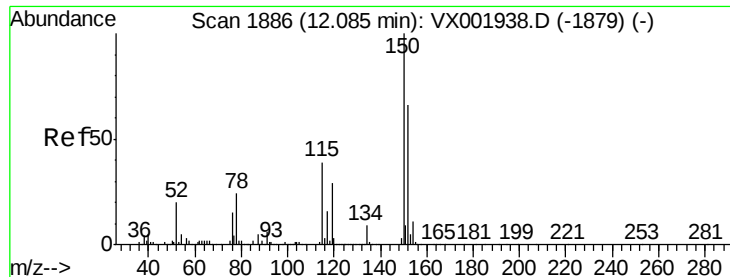
Tgt Ion: 95 Resp: 299821
Ion Ratio Lower Upper
95 100
174 90.3 0.0 178.8
176 87.6 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX001987.D
Acq: 25 May 2018 19:43

Tgt Ion: 117 Resp: 431677
Ion Ratio Lower Upper
117 100
82 57.8 44.8 67.2
119 31.7 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

MW-29

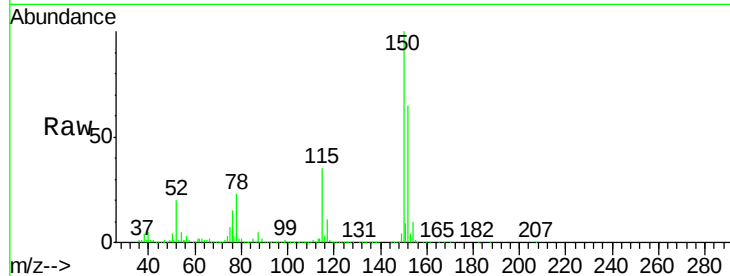
Tgt Ion: 152 Resp: 236503

Ion Ratio Lower Upper

152 100

115 55.1 42.3 126.8

150 156.2 0.0 351.0

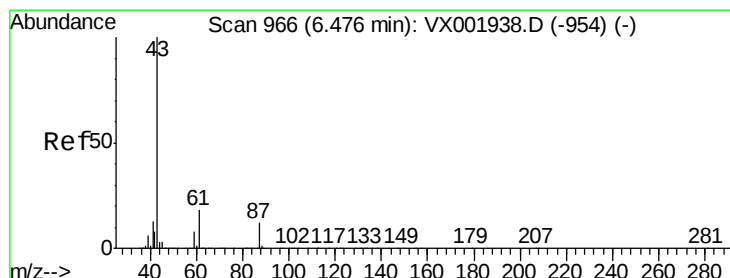
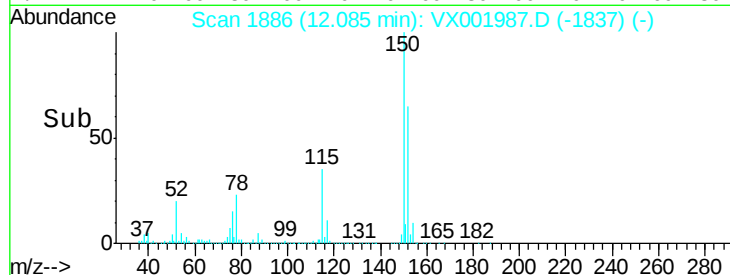
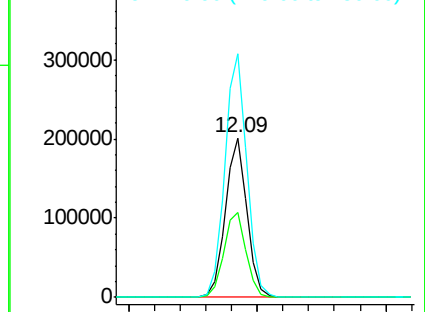


Abundance

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-ethyl acetate

Concen: Below Cal

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Tgt Ion: 43 Resp: 239

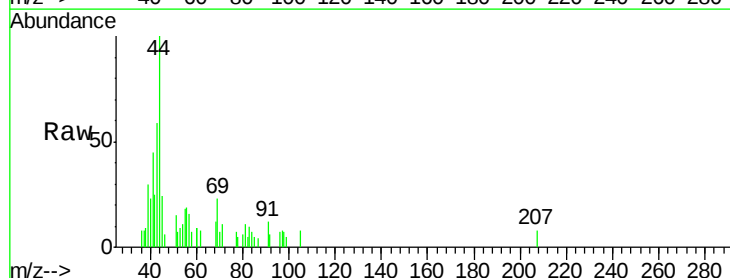
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 51.5 0.1 0.1#

61 19.7 14.5 21.7



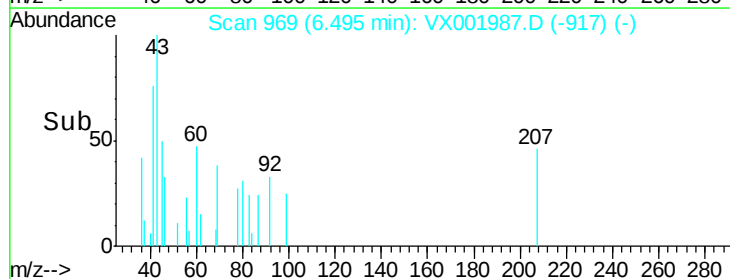
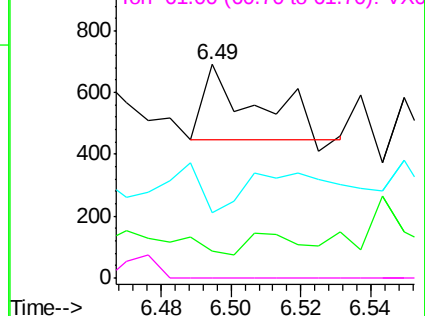
Abundance

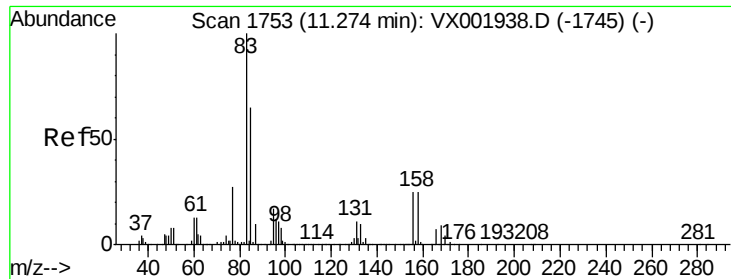
Ion 43.00 (42.70 to 43.70): VX0

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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.28 min Scan# 1754

Delta R.T. 0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

MW-29

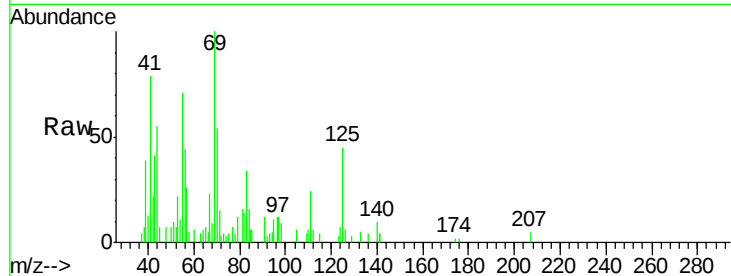
Tgt Ion: 83 Resp: 786

Ion Ratio Lower Upper

83 100

131 2.7 5.7 17.0#

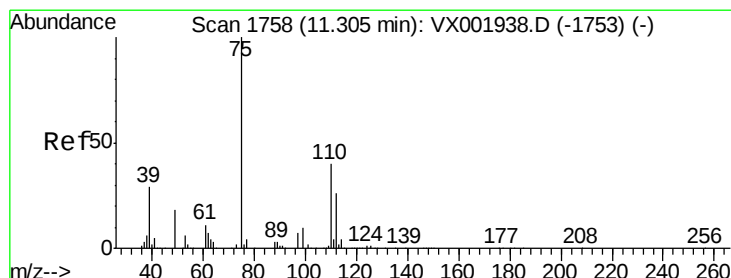
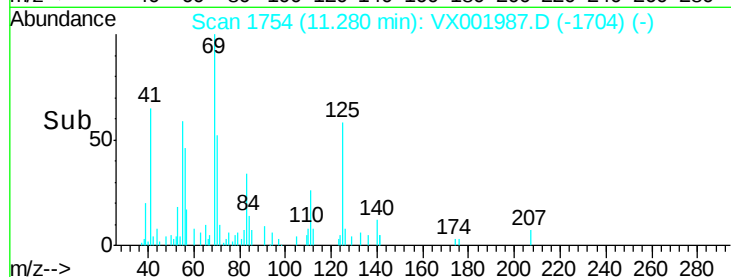
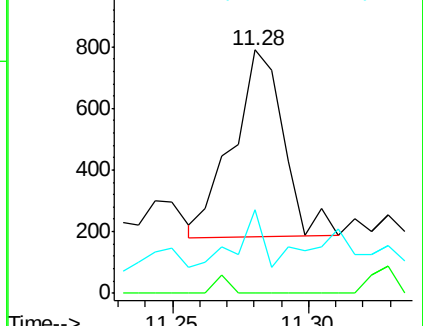
85 17.3 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 27.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001987.D

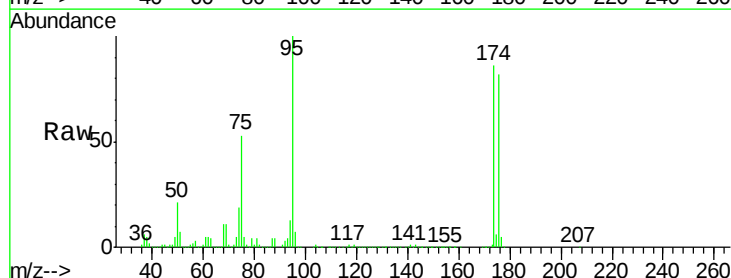
Acq: 25 May 2018 19:43

Tgt Ion: 75 Resp: 155698

Ion Ratio Lower Upper

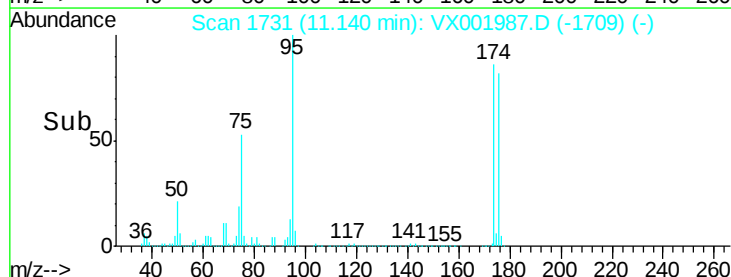
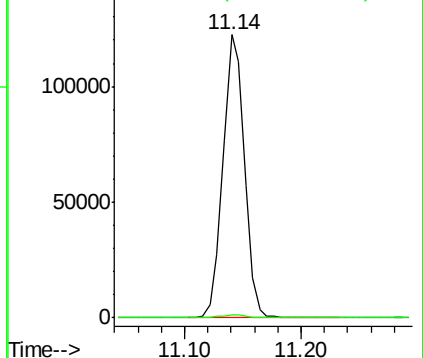
75 100

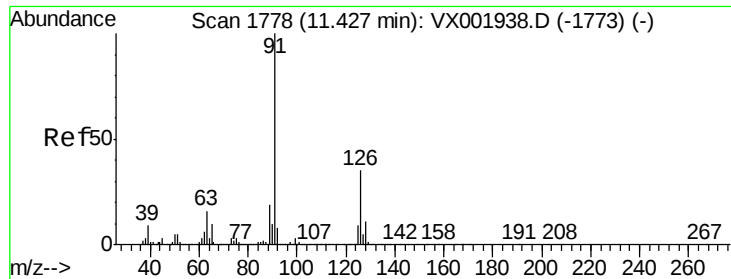
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

Instrument :

MSVOA_X

ClientSampled :

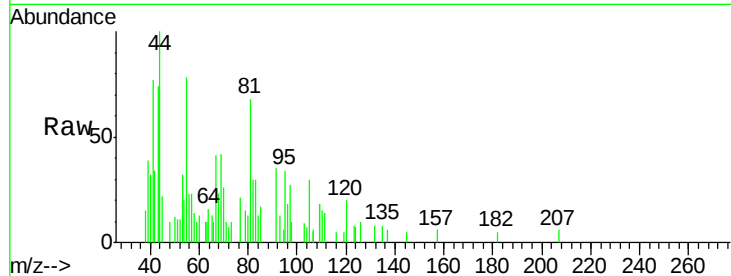
MW-29

Tgt Ion: 91 Resp: 473

Ion Ratio Lower Upper

91 100

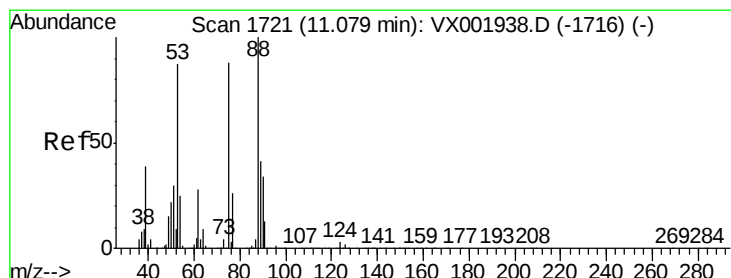
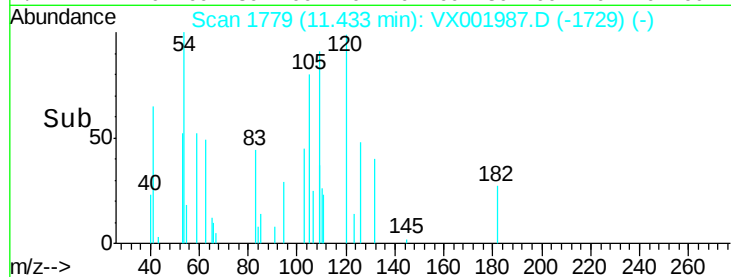
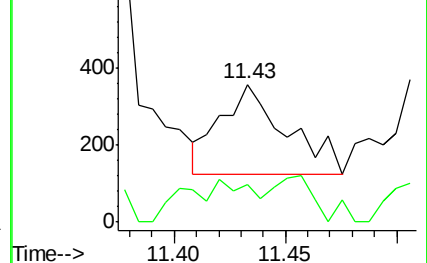
126 27.1 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001987.D

Acq: 25 May 2018 19:43

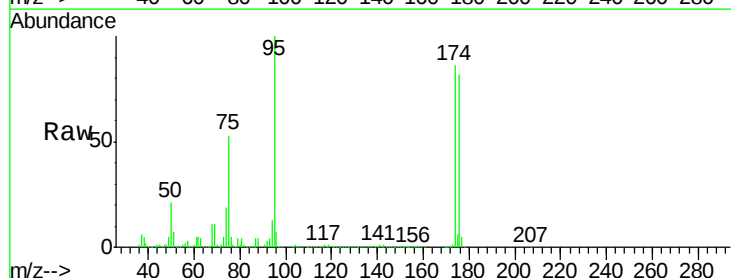
Tgt Ion: 75 Resp: 155698

Ion Ratio Lower Upper

75 100

53 0.1 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

Time-->

