

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053118\
 Data File : VX002187.D
 Acq On : 31 May 2018 20:23
 Operator : JC/MD
 Sample : J3183-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 01 03:26:11 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	273119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	395641	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	351672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185501	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	219413	44.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.88%	
35) Dibromofluoromethane	5.51	113	161568	40.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.68%	
50) Toluene-d8	8.72	98	638979	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	
62) 4-Bromofluorobenzene	11.14	95	221356	39.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.00%	

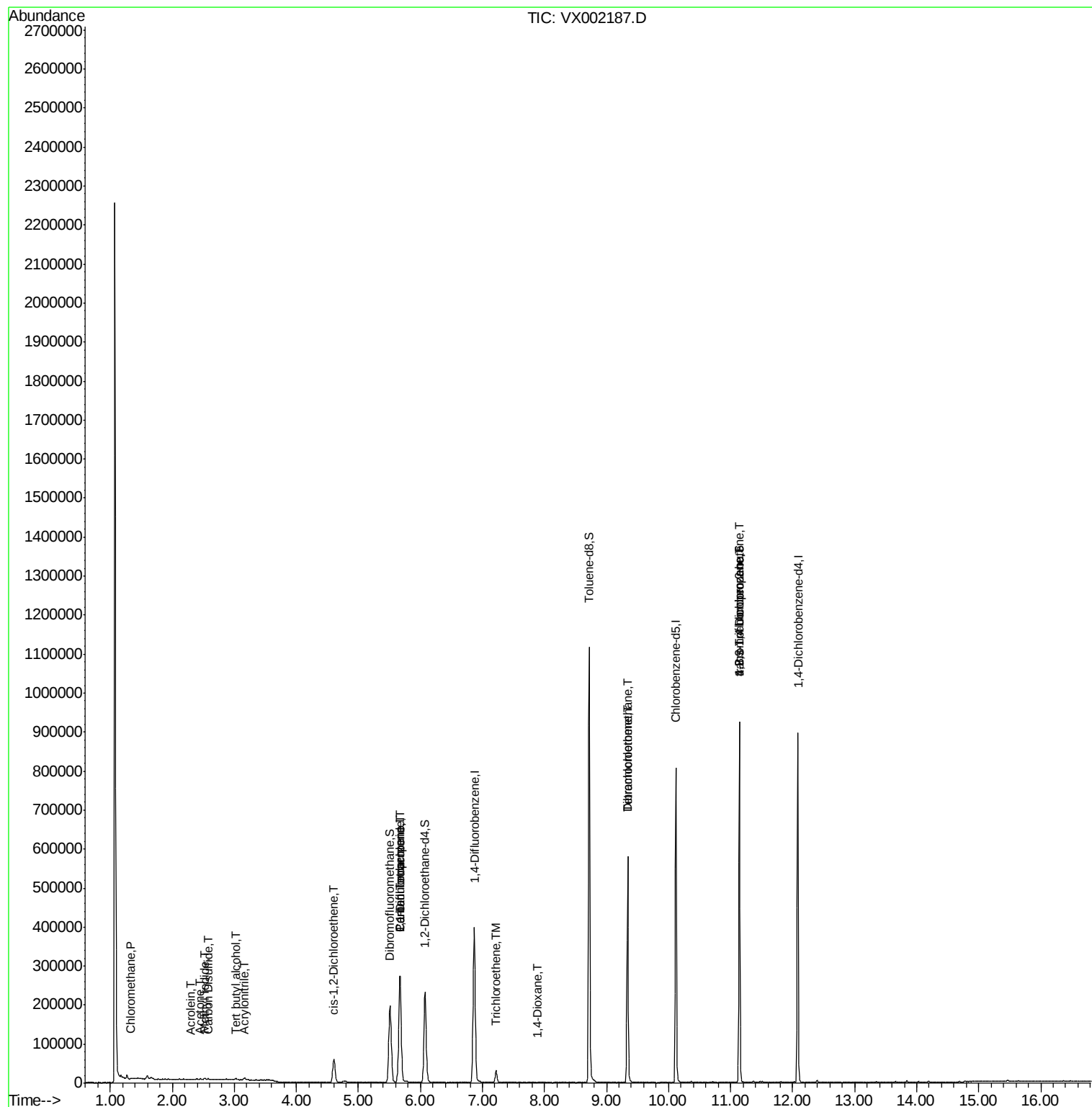
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.20	85	140	Below Cal	#	41
3) Chloromethane	1.32	50	1587	0.38	ug/l	93
5) Bromomethane	1.66	94	1223	Below Cal		95
10) Methyl Iodide	2.52	142	3449	0.75	ug/l	91
11) Tert butyl alcohol	3.03	59	1533	1.60	ug/l	# 71
13) Acrolein	2.31	56	601	1.45	ug/l	# 60
15) Acrylonitrile	3.15	53	596	0.30	ug/l	# 29
16) Acetone	2.45	43	1309	0.69	ug/l	# 67
17) Carbon Disulfide	2.57	76	2174	0.24	ug/l	# 92
18) Methyl Acetate	2.79	43	477	Below Cal	#	80
20) Methylene Chloride	2.86	84	920	Below Cal	#	79
21) trans-1,2-Dichloroethene	3.17	96	1890	Below Cal		97
27) cis-1,2-Dichloroethene	4.60	96	35167	8.47	ug/l	93
28) Bromochloromethane	5.03	49	54	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	19728	3.58	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	26084	4.06	ug/l	# 14
41) Methacrylonitrile	5.07	41	83	Below Cal	#	25
44) Trichloroethene	7.22	130	11281	2.40	ug/l	89
49) 1,4-Dioxane	7.88	88	30	0.28	ug/l	# 1
60) Dibromochloromethane	9.34	129	103776	20.44	ug/l	# 11
64) Tetrachloroethene	9.34	164	115680	22.94	ug/l	99
74) N-amyl acetate	6.48	43	248	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.27	83	19	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	119231	26.76	ug/l	# 32
79) 2-Chlorotoluene	11.43	91	789	Below Cal		93
81) trans-1,4-Dichloro-2-buten	11.14	75	119231	64.31	ug/l	# 10

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

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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# 834

Delta R.T. -0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

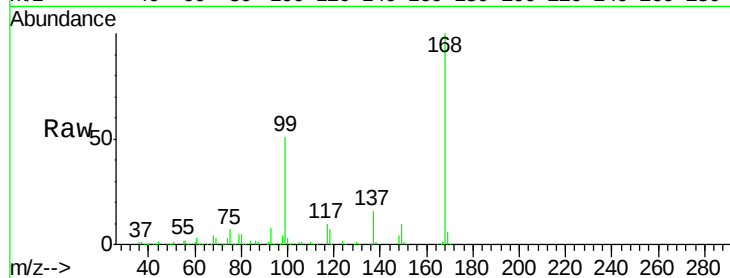
ClientSampleId :

Tot Ion:168 Resp: 273119

Ion Ratio Lower Upper

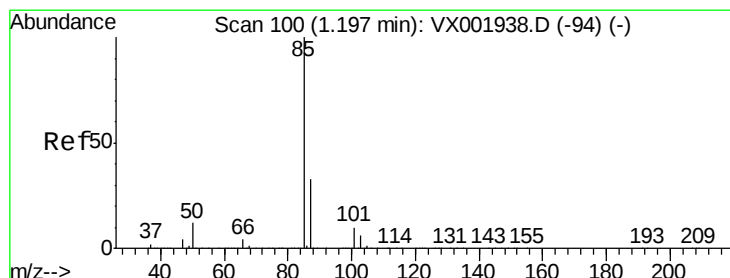
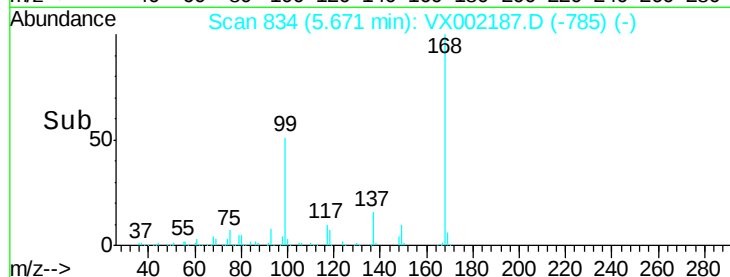
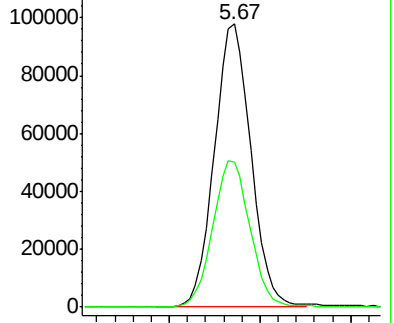
168 100

99 51.1 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: VX002187.D

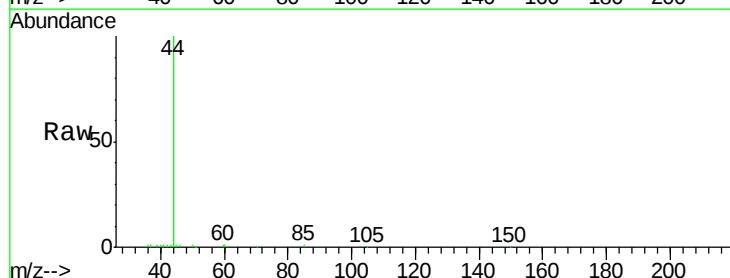
Acq: 31 May 2018 20:23

Tgt Ion: 85 Resp: 140

Ion Ratio Lower Upper

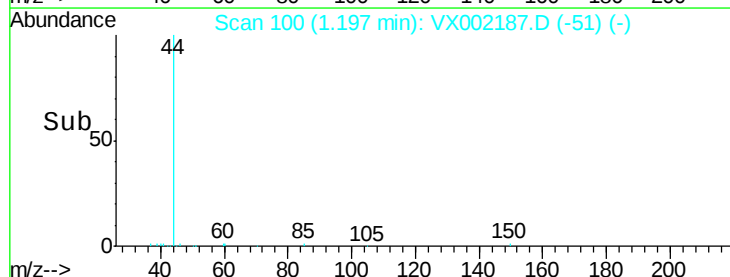
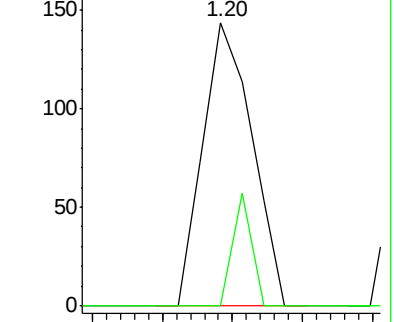
85 100

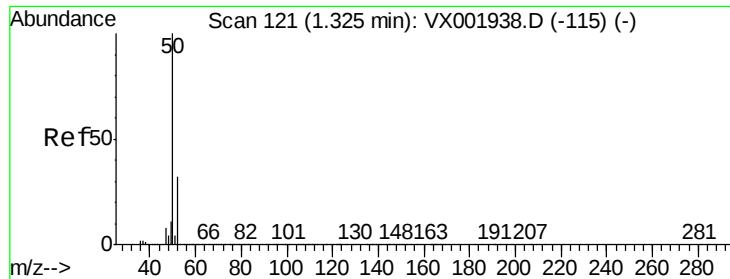
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.38 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

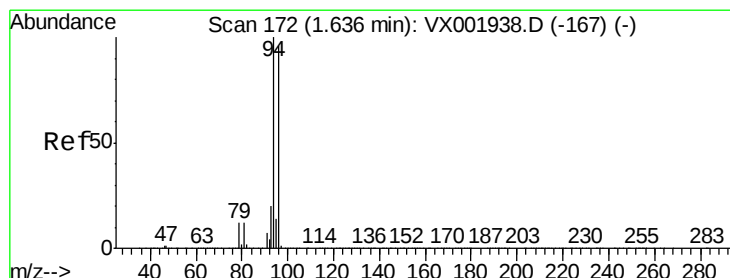
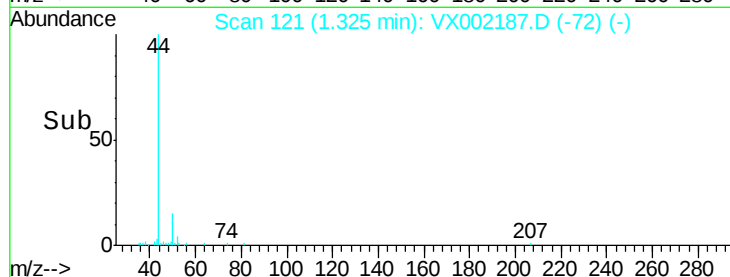
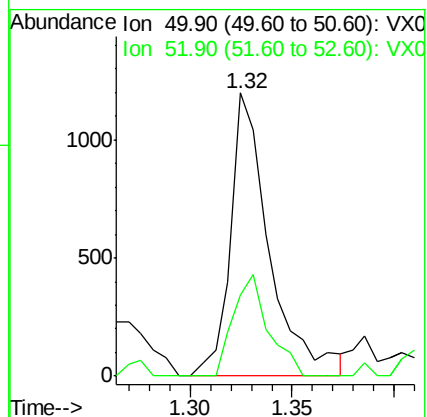
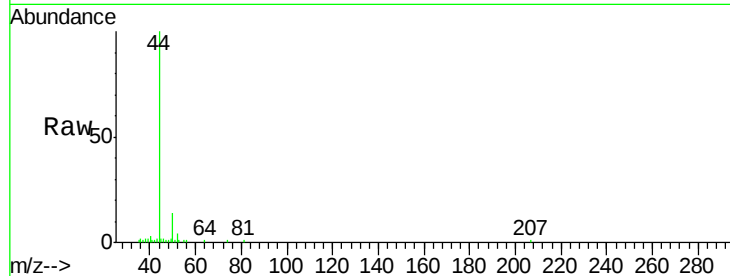
ClientSampleId :

Tot Ion: 50 Resp: 1587

Ion Ratio Lower Upper

50 100

52 28.5 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002187.D

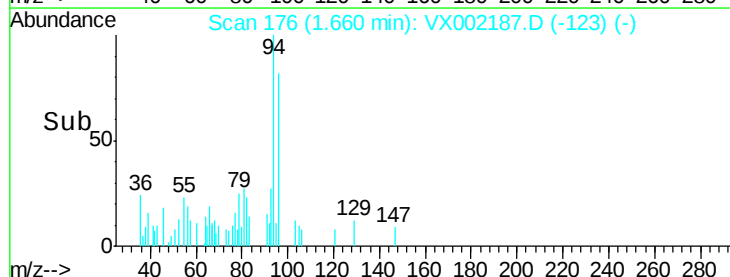
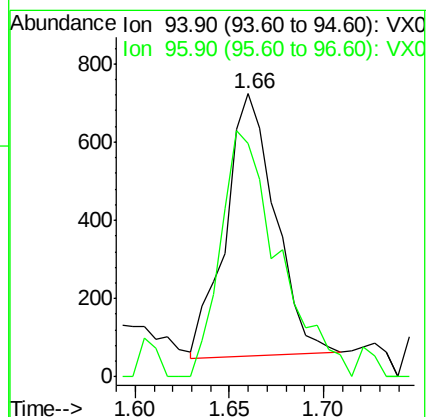
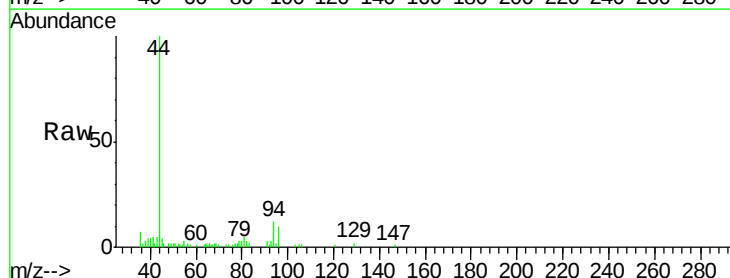
Acq: 31 May 2018 20:23

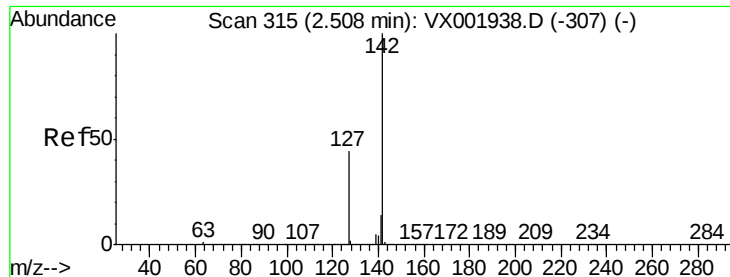
Tgt Ion: 94 Resp: 1223

Ion Ratio Lower Upper

94 100

96 90.2 75.9 113.9

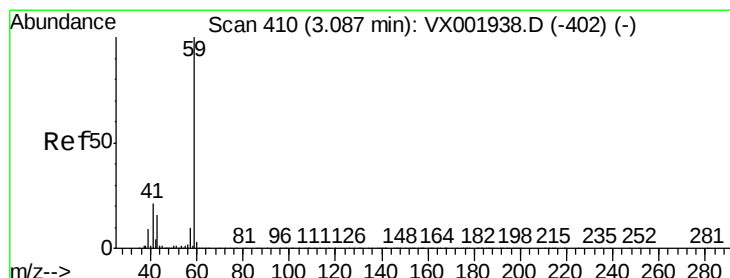
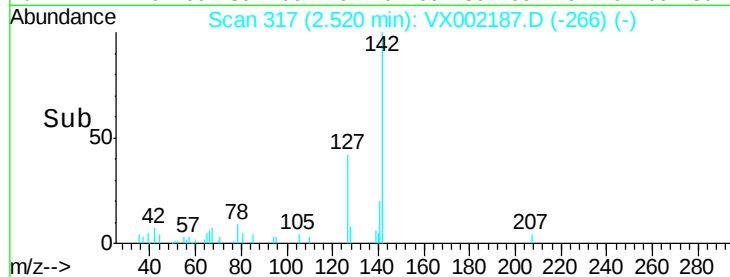
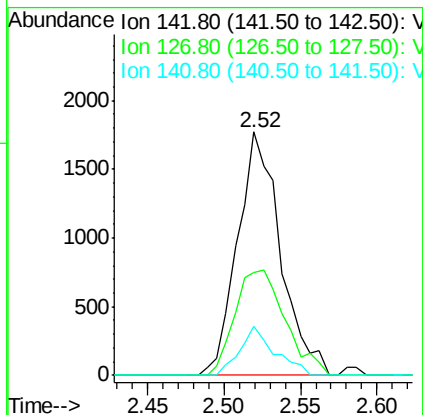
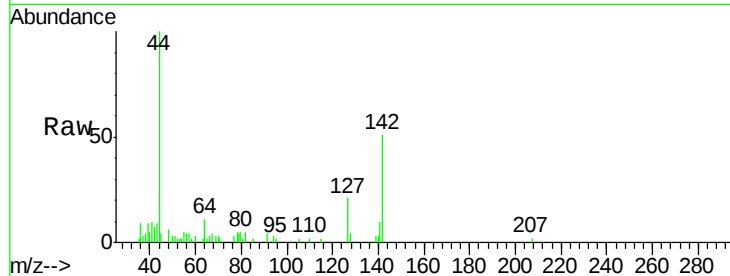




#10
Methyl Iodide
Concen: 0.75 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

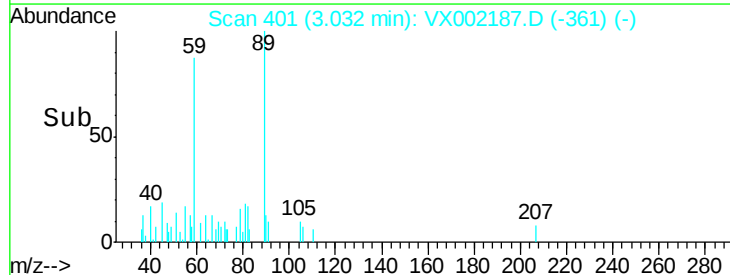
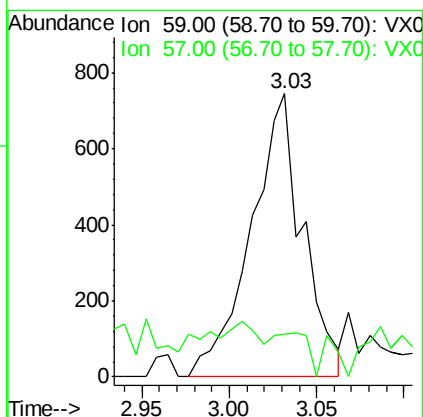
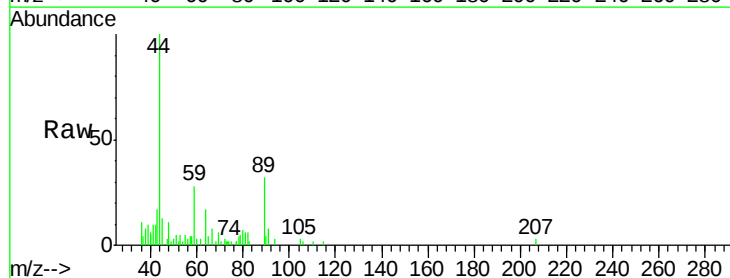
Instrument :
MSVOA_X
ClientSampleId :

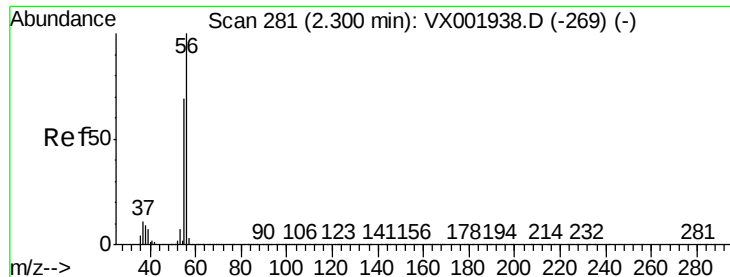
Tot Ion:142 Resp: 3449
Ion Ratio Lower Upper
142 100
127 50.7 35.5 53.3
141 16.5 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.60 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.06 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

Tgt Ion: 59 Resp: 1533
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#





#13

Acrolein

Concen: 1.45 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

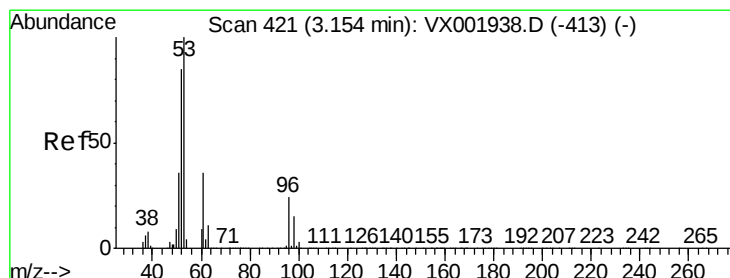
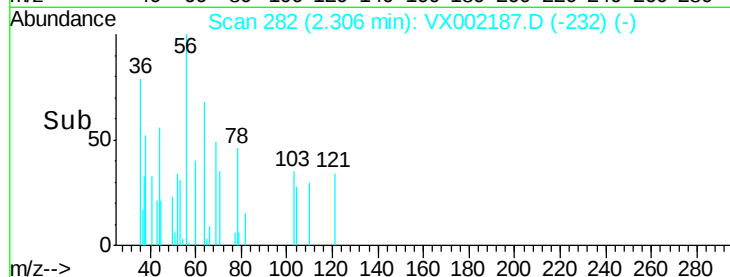
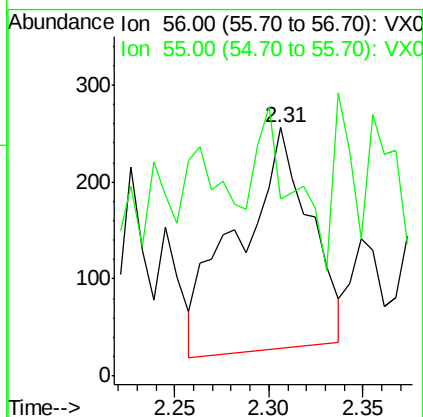
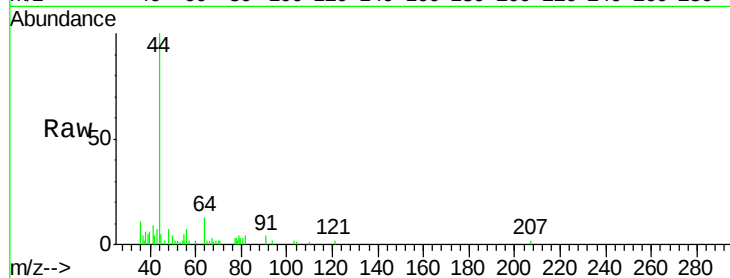
ClientSampleId :

Tot Ion: 56 Resp: 601

Ion Ratio Lower Upper

56 100

55 37.8 56.8 85.2#



#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

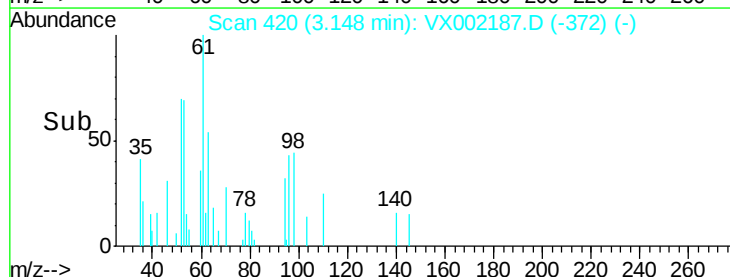
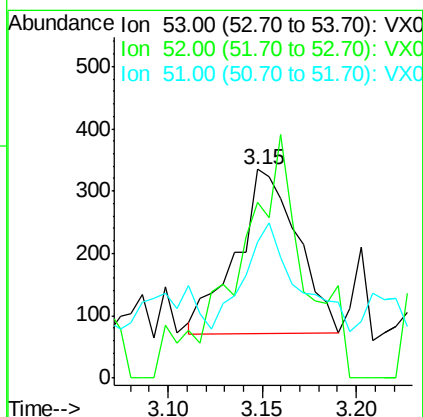
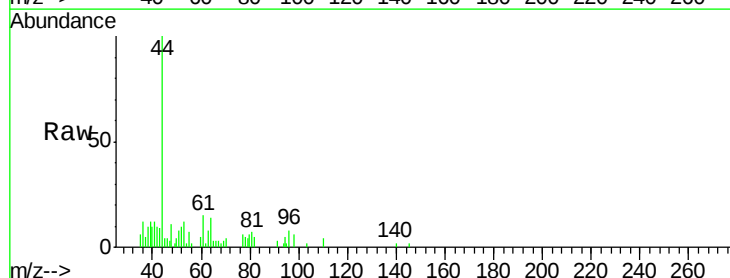
Tgt Ion: 53 Resp: 596

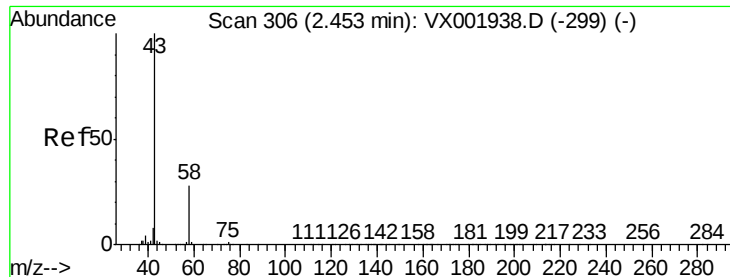
Ion Ratio Lower Upper

53 100

52 161.6 66.4 99.6#

51 56.2 29.3 43.9#





#16

Acetone

Concen: 0.69 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

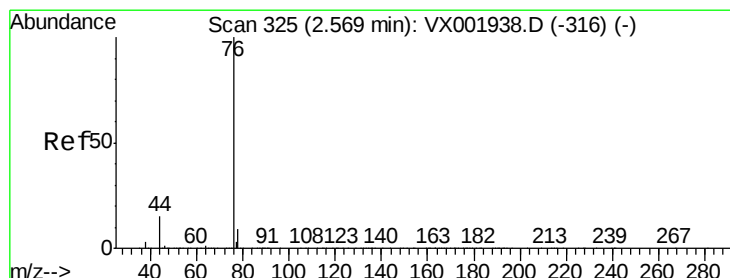
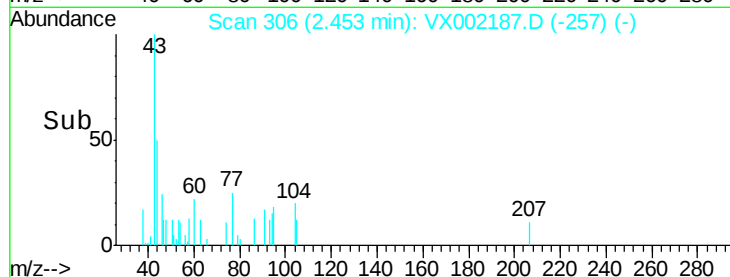
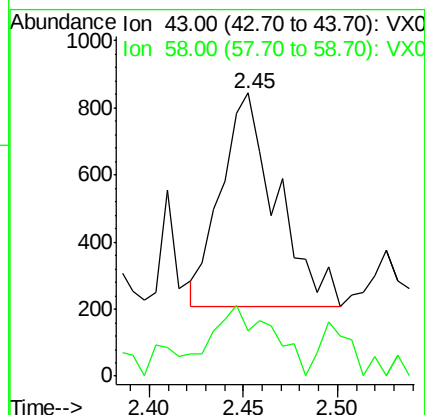
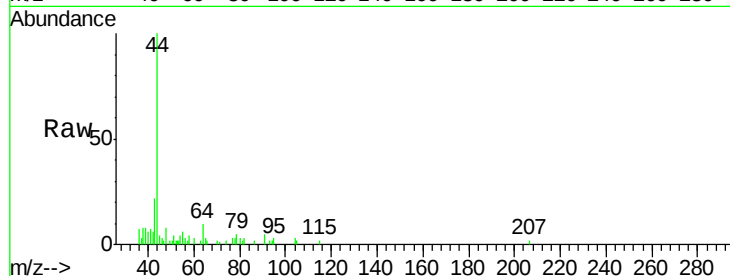
ClientSampleId :

Tot Ion: 43 Resp: 1309

Ion Ratio Lower Upper

43 100

58 10.5 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: VX002187.D

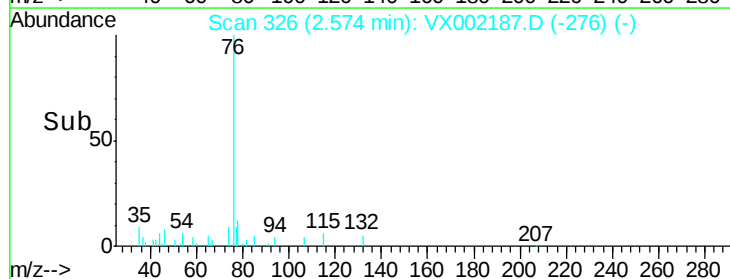
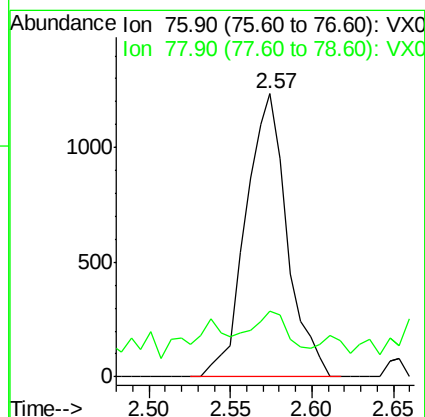
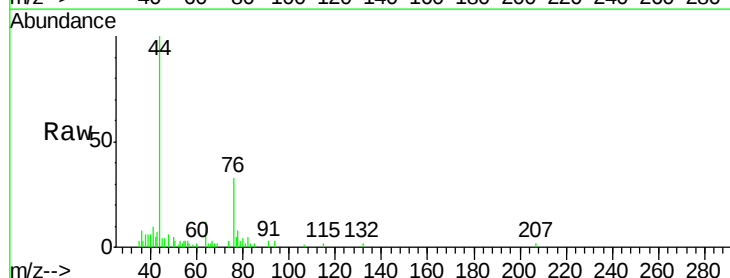
Acq: 31 May 2018 20:23

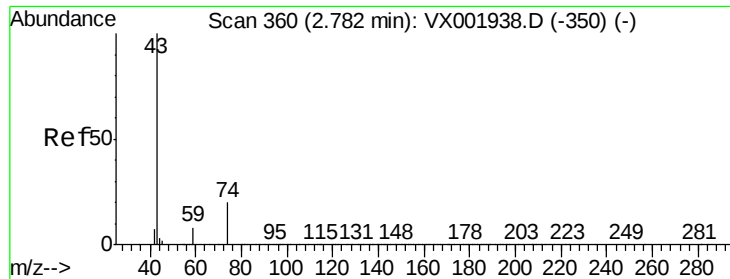
Tgt Ion: 76 Resp: 2174

Ion Ratio Lower Upper

76 100

78 12.1 7.4 11.2#

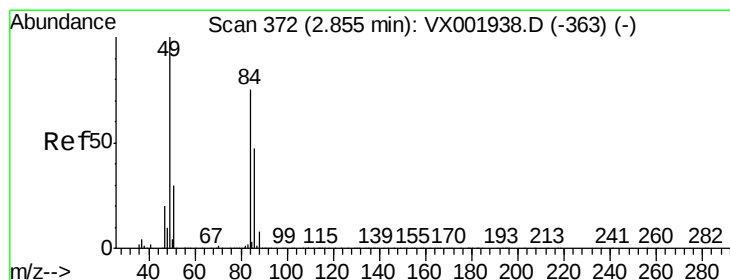
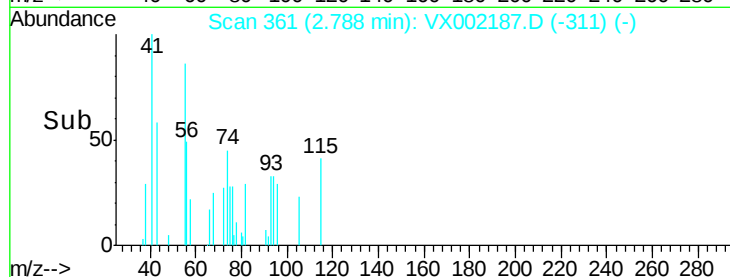
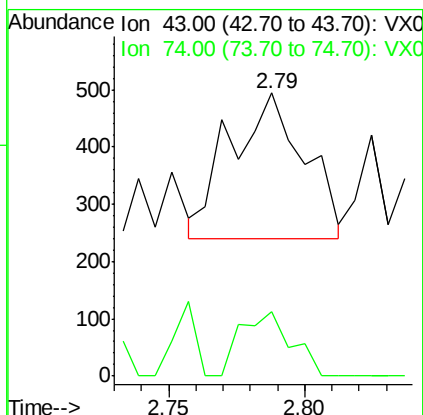
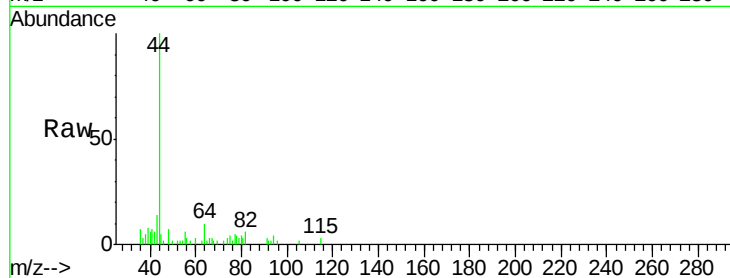




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

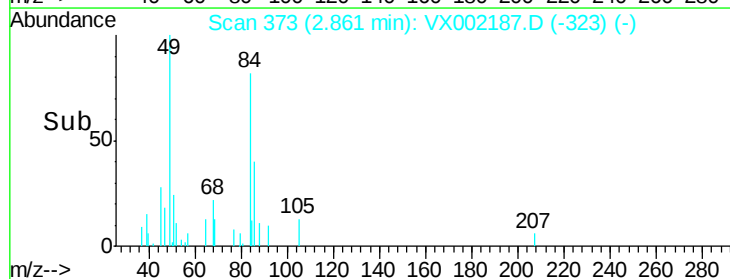
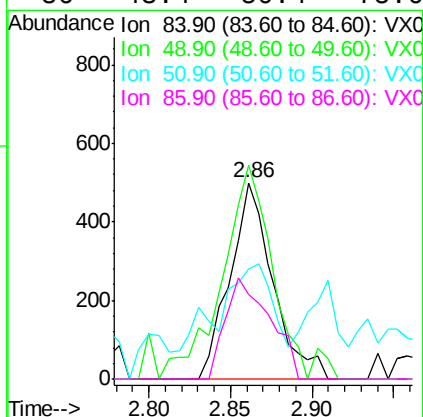
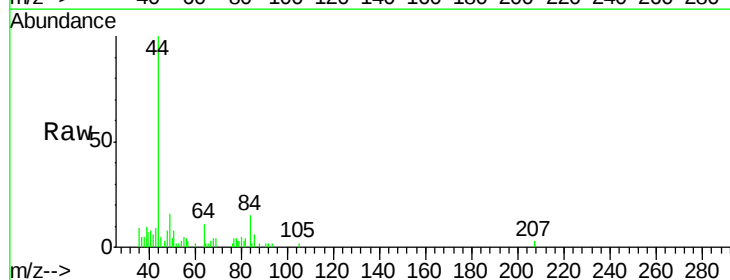
Instrument :
MSVOA_X
ClientSampled :

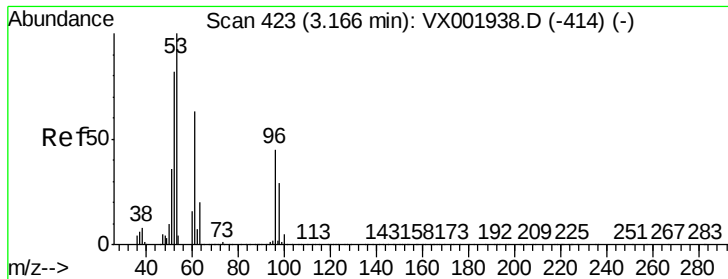
Tot Ion: 43 Resp: 477
Ion Ratio Lower Upper
43 100
74 30.4 16.8 25.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

Tgt Ion: 84 Resp: 920
Ion Ratio Lower Upper
84 100
49 108.8 107.2 160.8
51 33.6 32.4 48.6
86 43.4 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: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

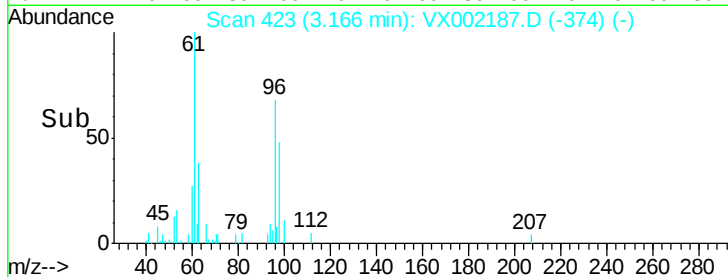
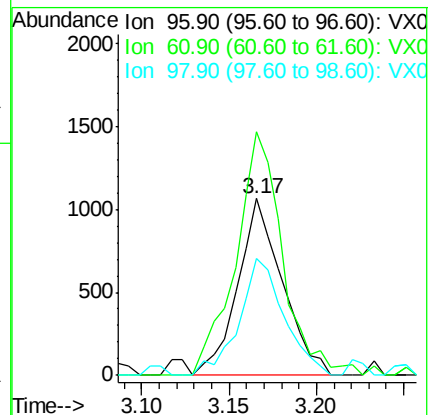
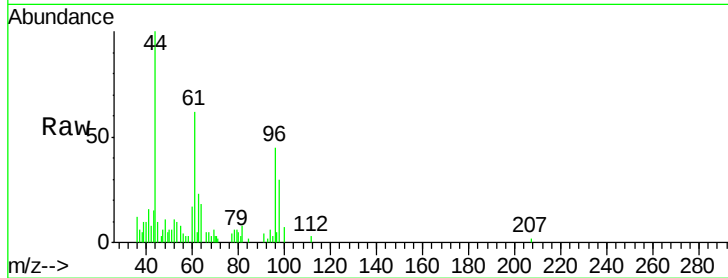
Tot Ion: 96 Resp: 1890

Ion Ratio Lower Upper

96 100

61 137.9 113.3 169.9

98 66.3 51.7 77.5



#27

cis-1,2-Dichloroethene

Concen: 8.47 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

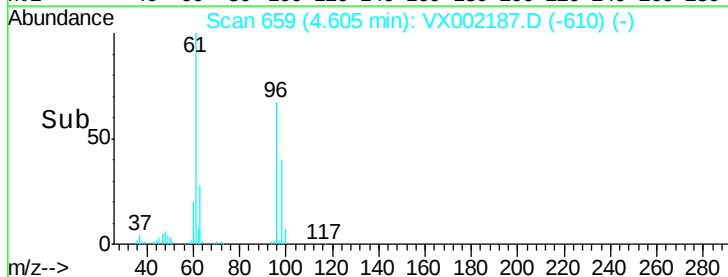
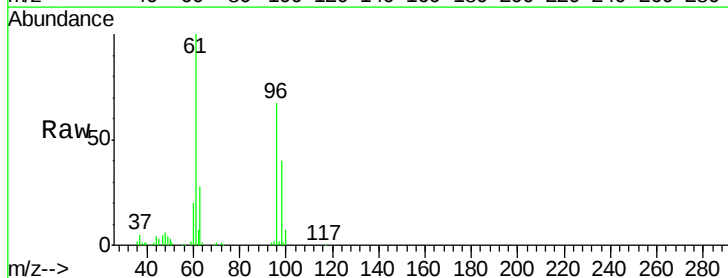
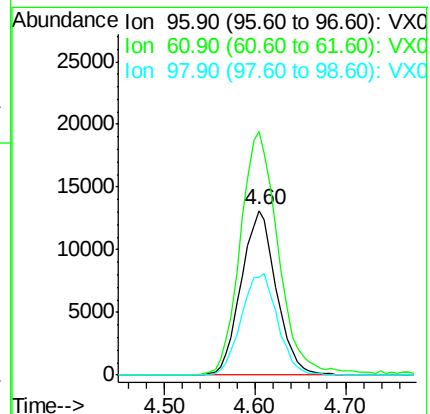
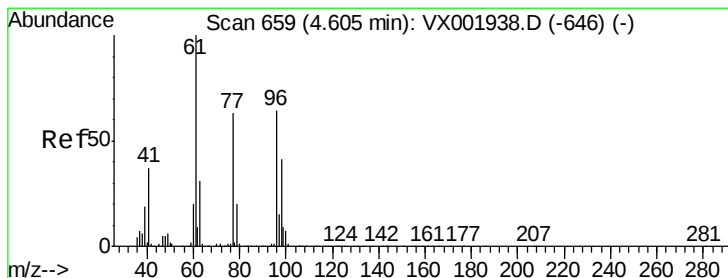
Tgt Ion: 96 Resp: 35167

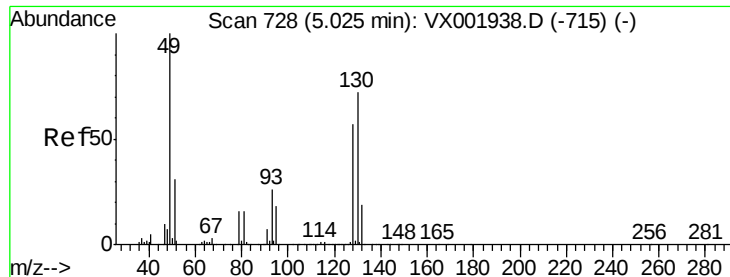
Ion Ratio Lower Upper

96 100

61 160.8 0.0 348.4

98 63.9 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

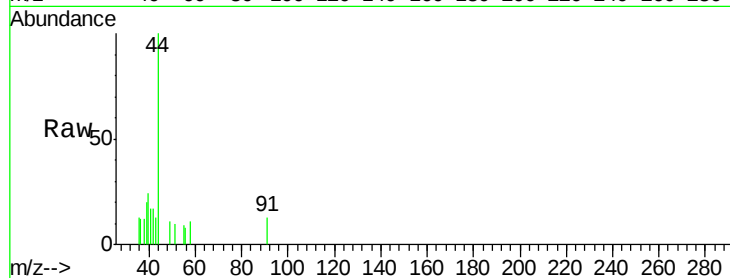
Delta R.T. 0.01 min

Lab File: VX002187.D

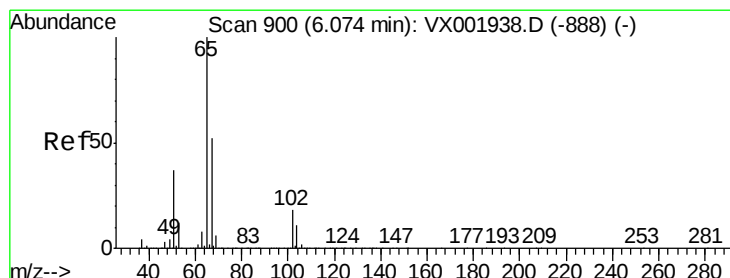
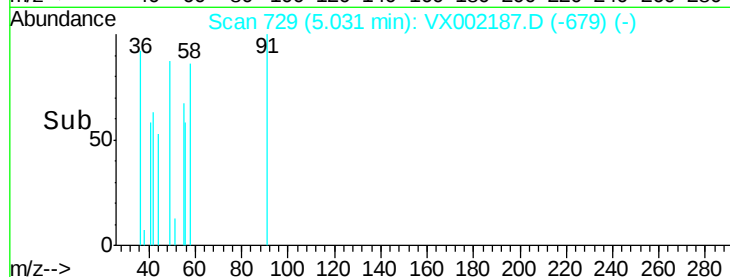
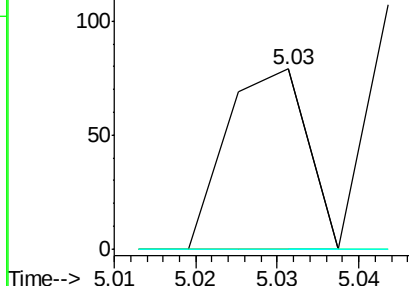
Acq: 31 May 2018 20:23

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 54
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



#33

1,2-Dichloroethane-d4

Concen: 44.94 ug/l

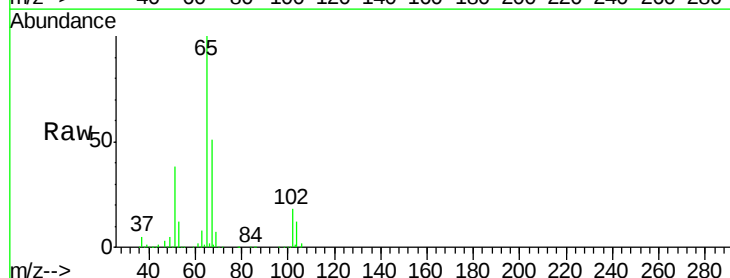
RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

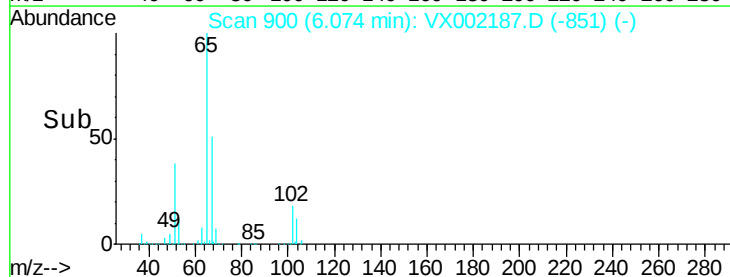
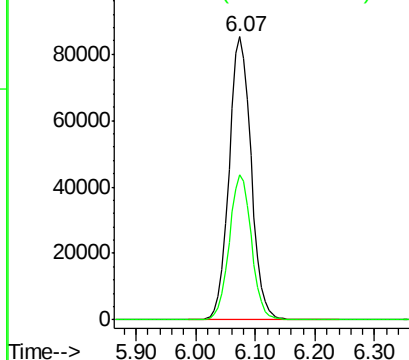
Lab File: VX002187.D

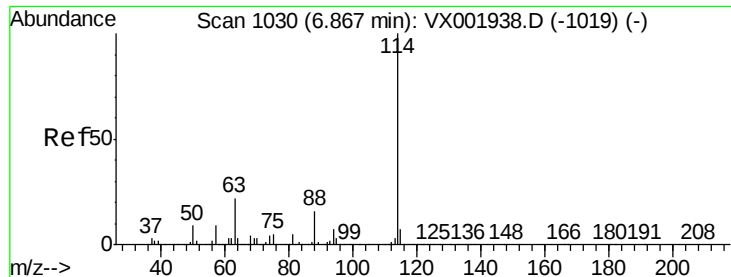
Acq: 31 May 2018 20:23

Tgt Ion: 65 Resp: 219413
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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

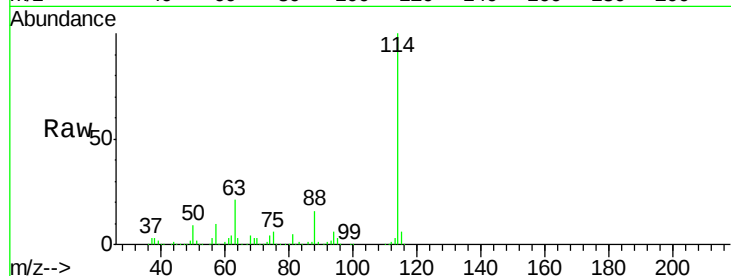
Tot Ion:114 Resp: 395641

Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.2

88 15.9 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

200000

150000

100000

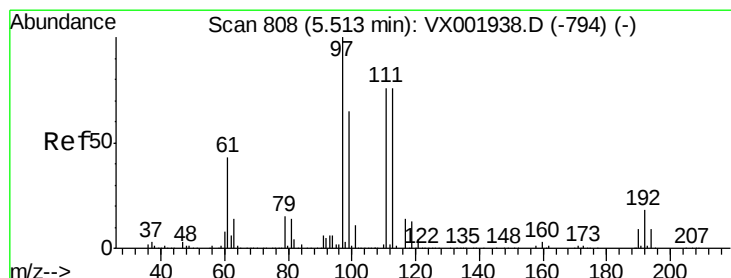
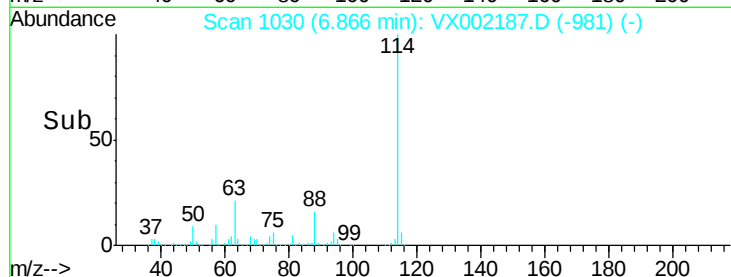
50000

0

6.87

6.70 6.80 6.90 7.00 7.10

Time-->



#35

Dibromofluoromethane

Concen: 40.84 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

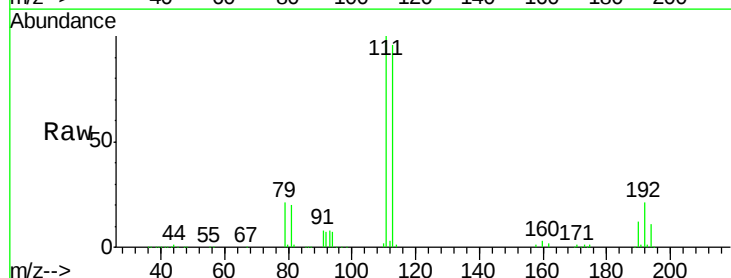
Tgt Ion:113 Resp: 161568

Ion Ratio Lower Upper

113 100

111 103.1 82.0 123.0

192 23.2 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

80000

60000

40000

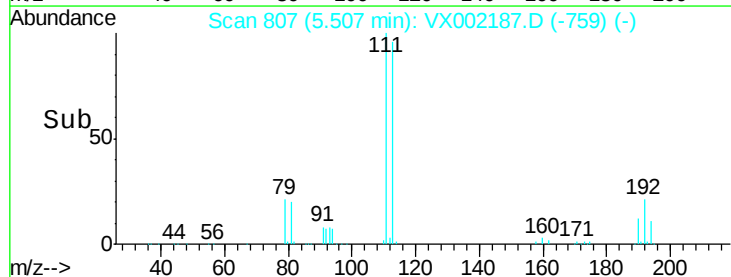
20000

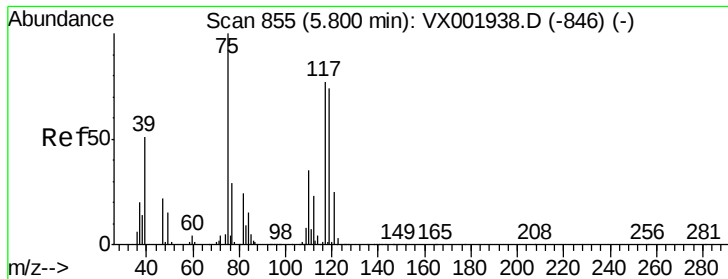
0

5.51

5.40 5.50 5.60 5.70

Time-->

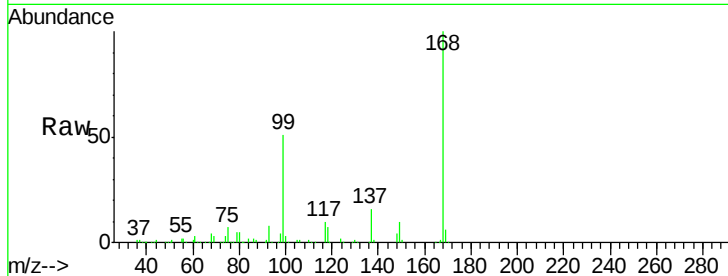




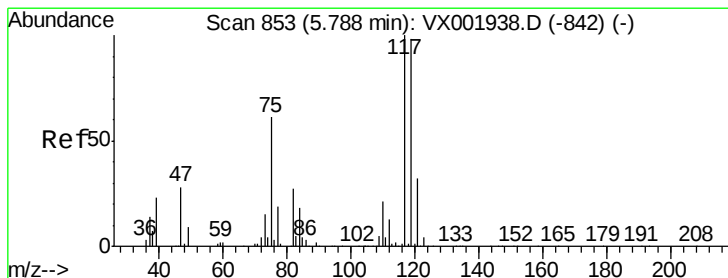
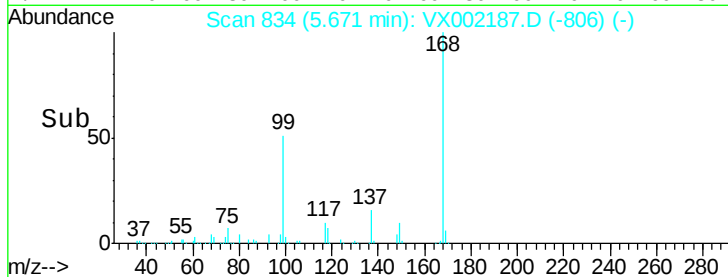
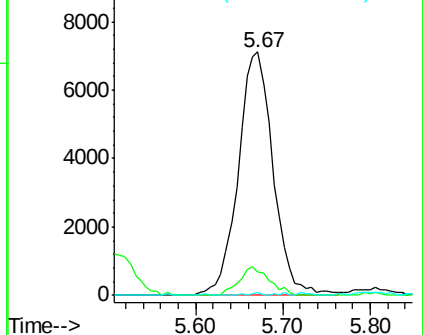
#36
 1,1-Dichloropropene
 Concen: 3.58 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002187.D
 Acq: 31 May 2018 20:23

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	110	77	Resp	Lower	Upper
19728	100	10.0	0.4		17.4	52.2#
					24.4	36.6#

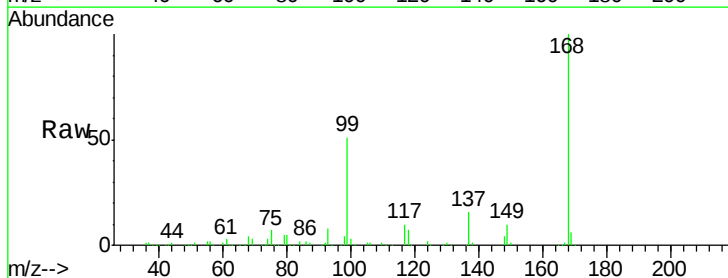


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

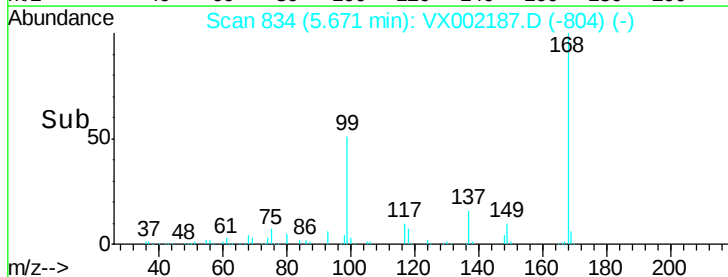
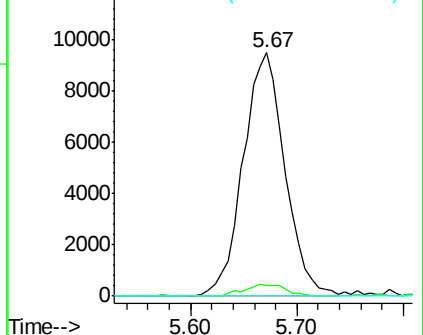


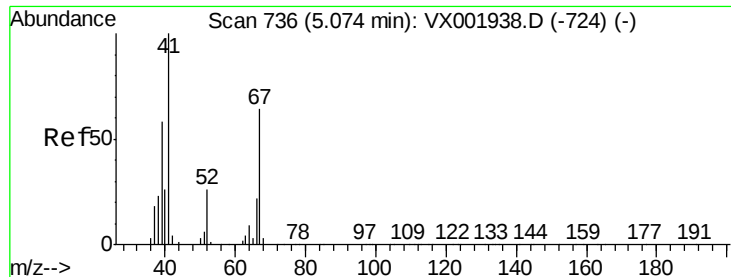
#38
 Carbon Tetrachloride
 Concen: 4.06 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002187.D
 Acq: 31 May 2018 20:23

Tgt Ion	117	119	121	Resp	Lower	Upper
26084	100	4.5	0.0		78.5	117.7#
					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

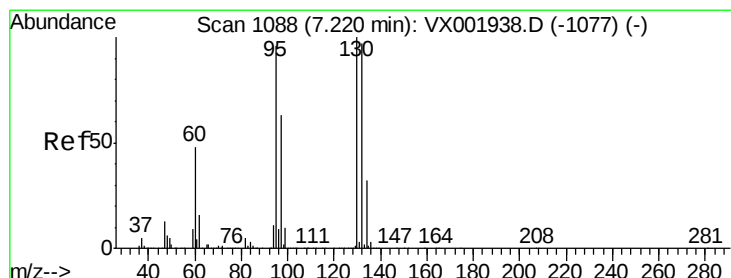
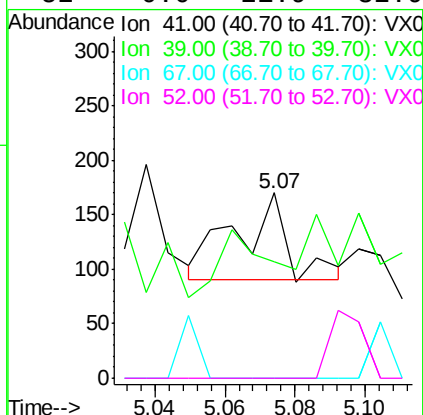
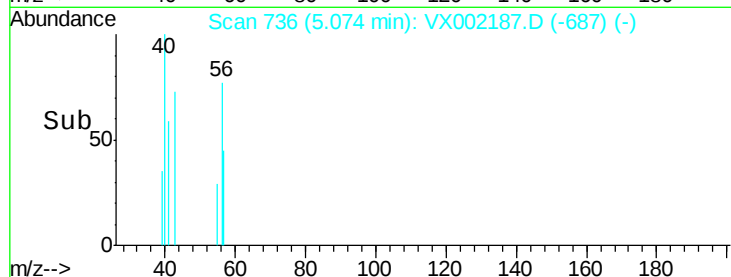
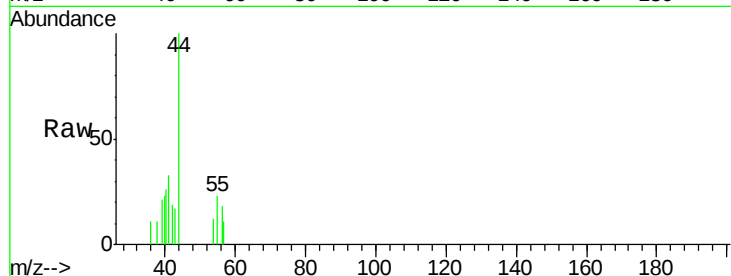




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.07 min Scan# 736
Delta R.T. 0.00 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

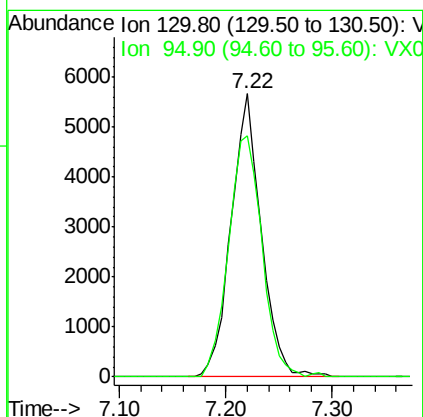
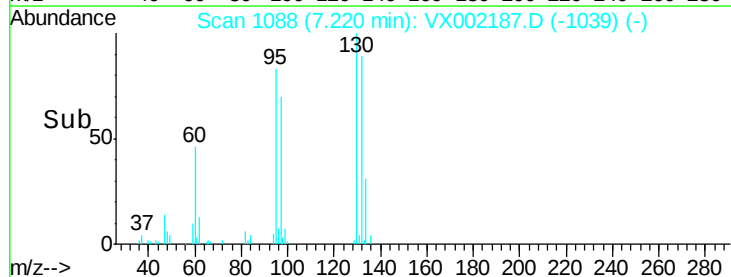
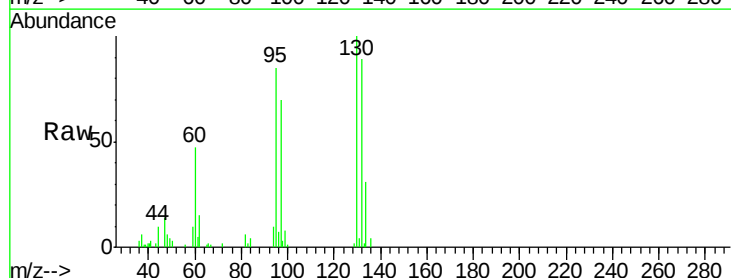
Instrument :
MSVOA_X
ClientSampled :

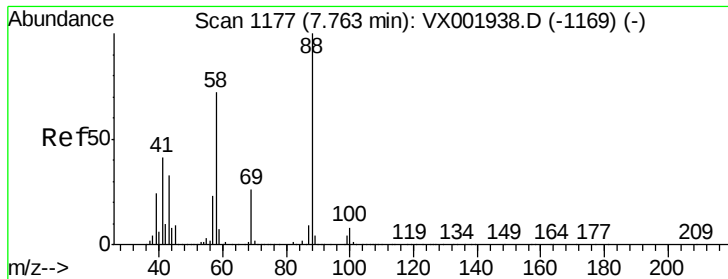
Tot Ion:	41	Resp:	83
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.0	69.0#
67	0.0	50.6	75.8#
52	0.0	21.9	32.9#



#44
Trichloroethene
Concen: 2.40 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

Tgt Ion:	130	Resp:	11281
Ion	Ratio	Lower	Upper
130	100		
95	85.2	0.0	192.0





#49

1,4-Dioxane

Concen: 0.28 ug/l

RT: 7.88 min Scan# 1196

Delta R.T. 0.12 min

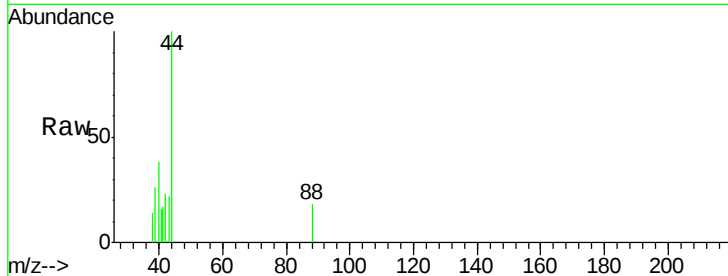
Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 30

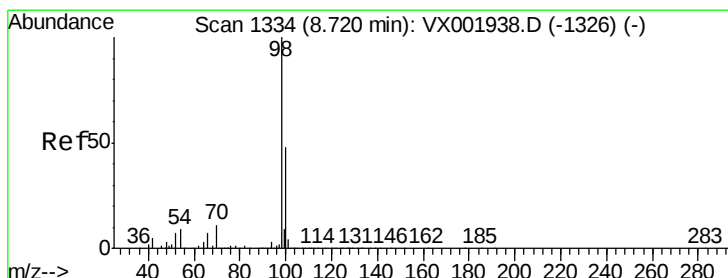
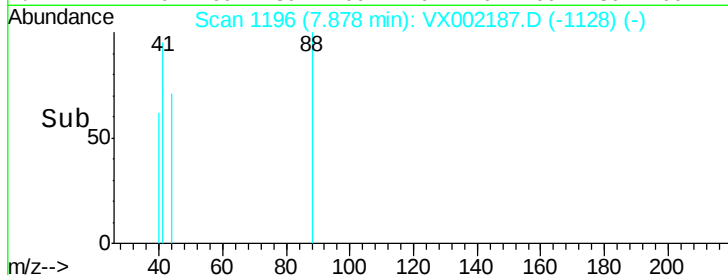
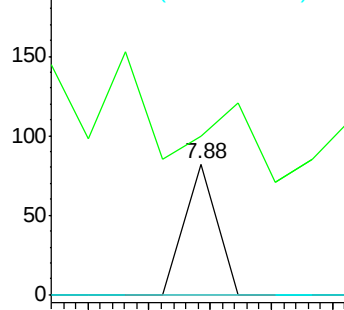
Ion	Ratio	Lower	Upper
88	100		
43	436.7	29.8	44.8#
58	0.0	58.7	88.1#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 44.61 ug/l

RT: 8.72 min Scan# 1334

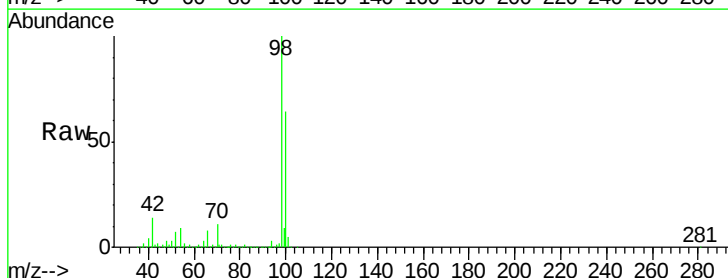
Delta R.T. 0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

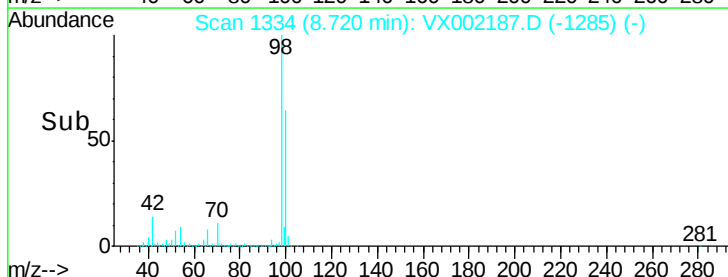
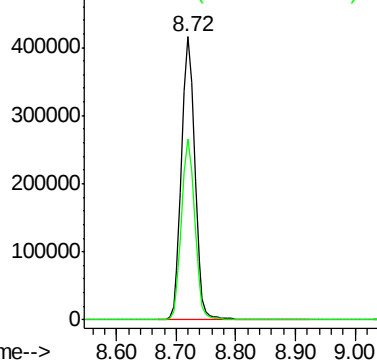
Tgt Ion: 98 Resp: 638979

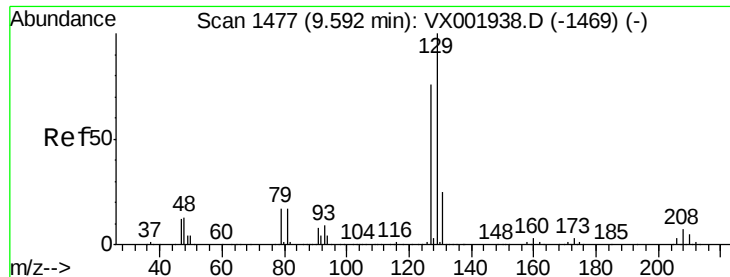
Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.5	77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 20.44 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

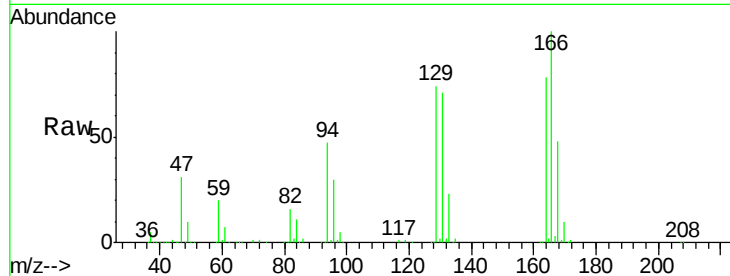
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 103776

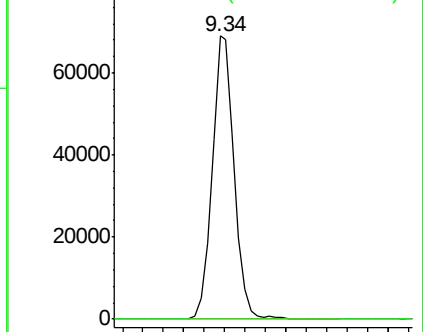
Ion Ratio Lower Upper

129 100

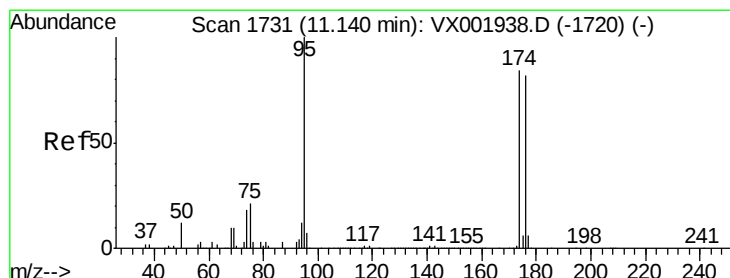
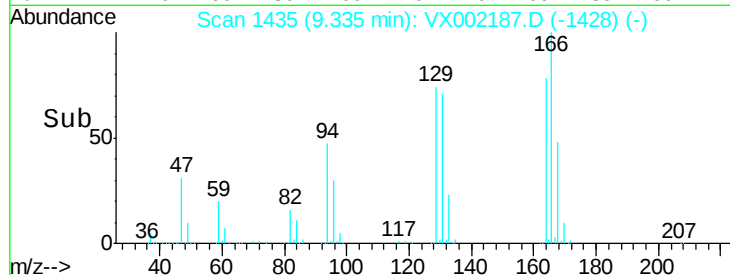
127 0.1 38.3 114.9#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 39.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

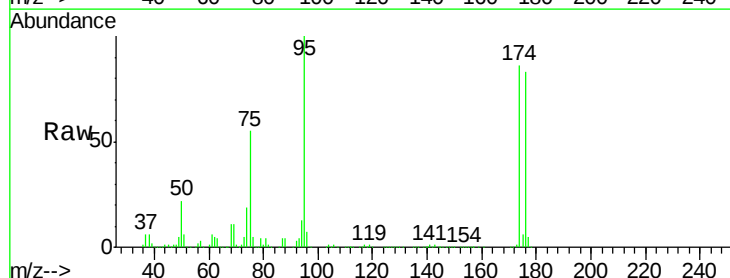
Tgt Ion: 95 Resp: 221356

Ion Ratio Lower Upper

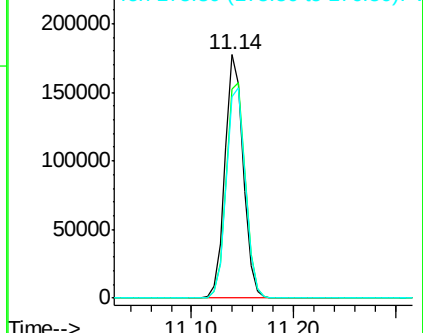
95 100

174 91.9 0.0 178.8

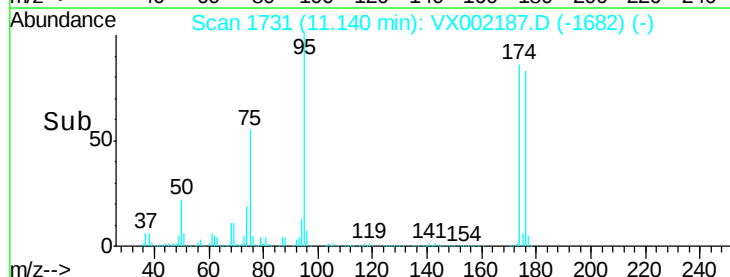
176 89.5 0.0 175.6

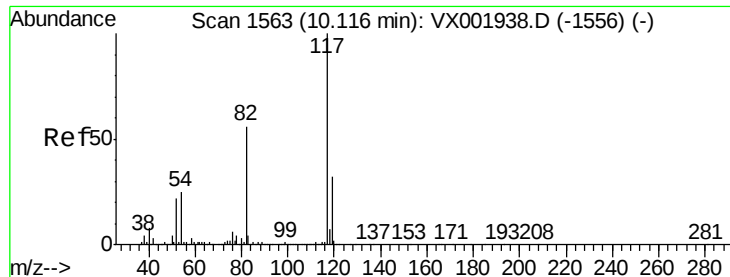


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V



Time-->

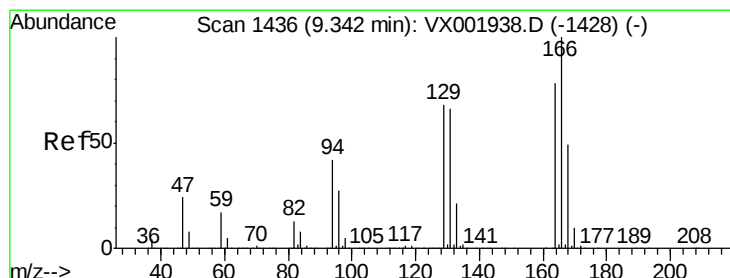
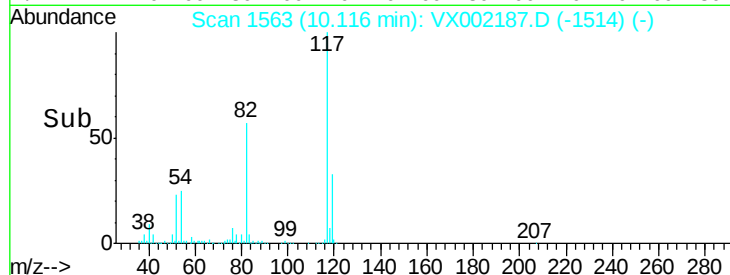
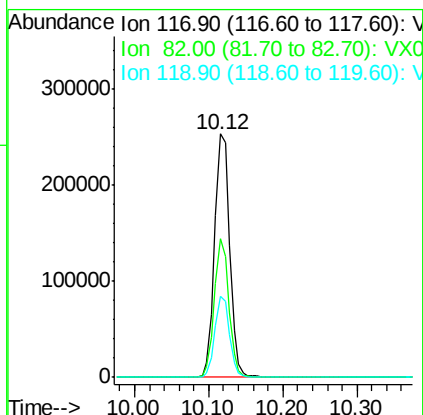
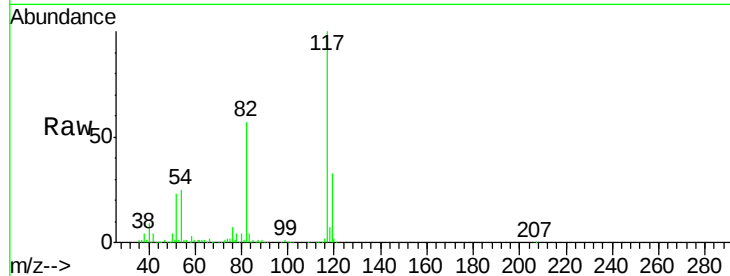




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

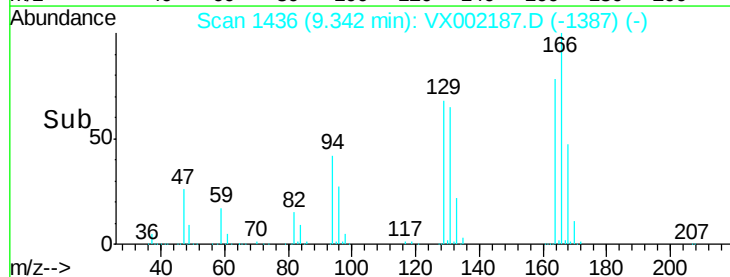
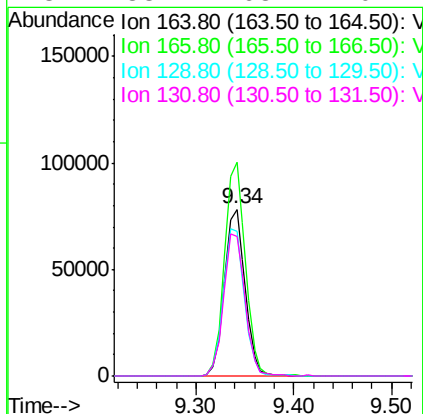
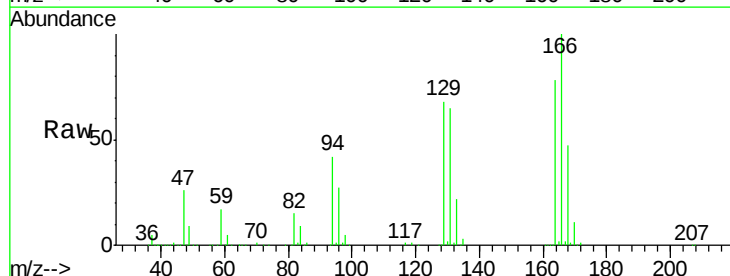
Instrument :
MSVOA_X
ClientSampleId :

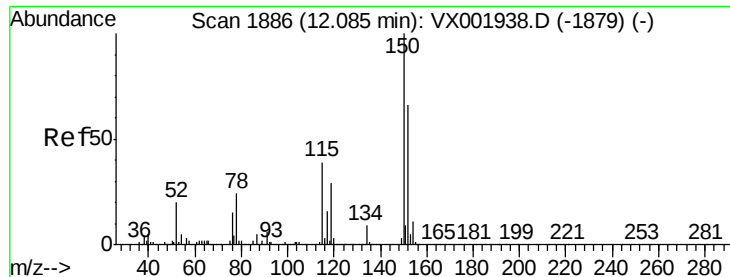
Tot Ion:117 Resp: 351672
Ion Ratio Lower Upper
117 100
82 56.8 44.8 67.2
119 33.2 25.5 38.3



#64
Tetrachloroethene
Concen: 22.94 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

Tgt Ion:164 Resp: 115680
Ion Ratio Lower Upper
164 100
166 128.0 102.7 154.1
129 87.1 70.3 105.5
131 83.7 68.2 102.4



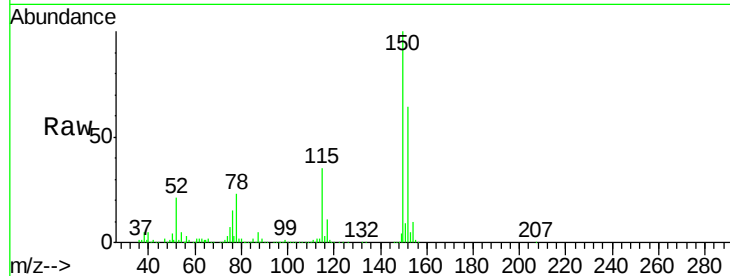


#72

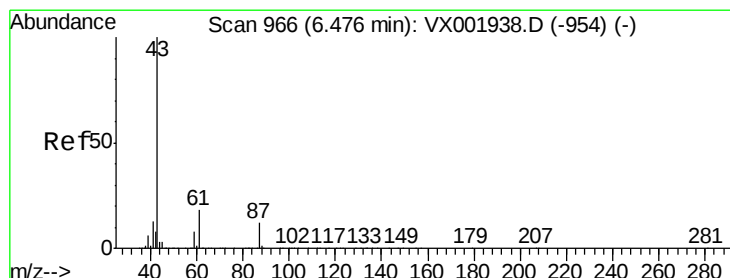
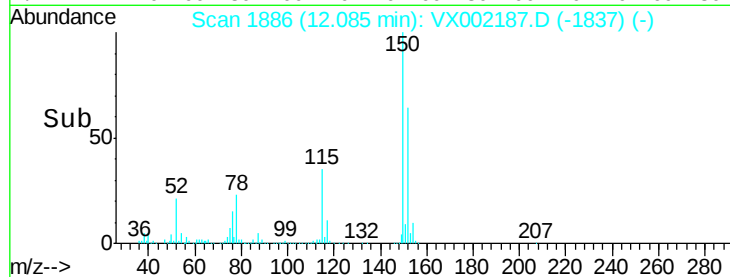
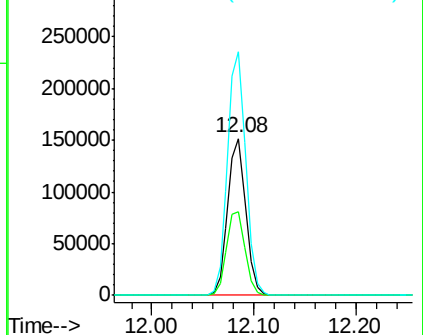
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	42.3	126.8
150	156.7	0.0	351.0



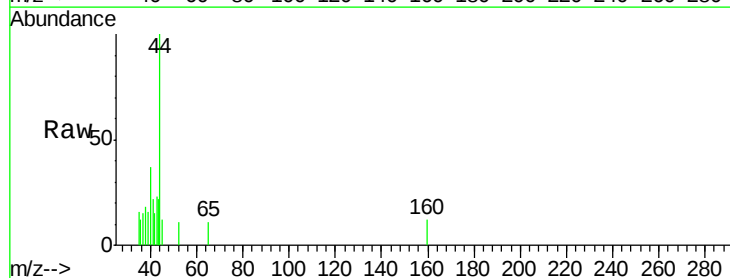
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



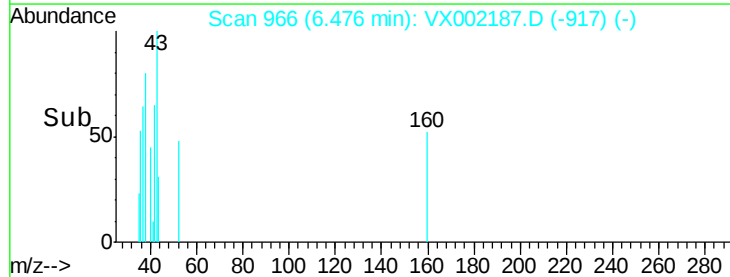
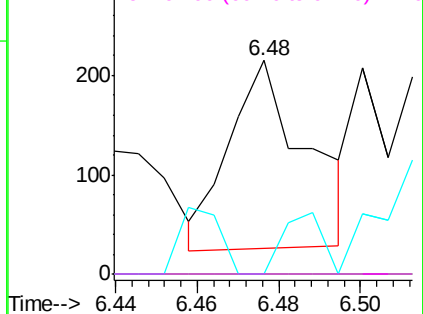
#74

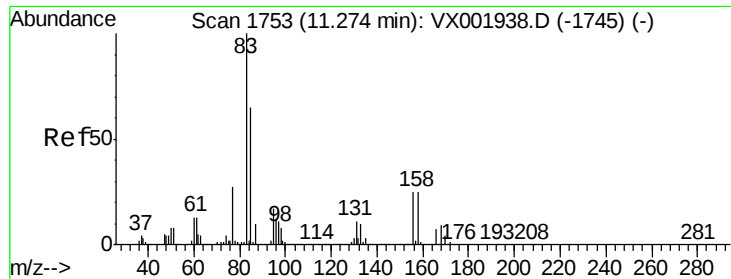
N-ethyl acetate
Concen: Below Cal
RT: 6.48 min Scan# 966
Delta R.T. 0.00 min
Lab File: VX002187.D
Acq: 31 May 2018 20:23

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	18.5	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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.27 min Scan# 1752

Delta R.T. -0.01 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

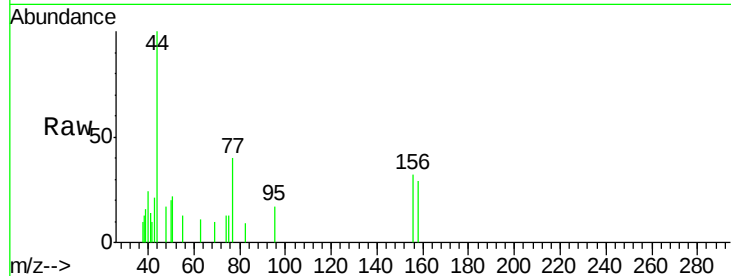
Tot Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

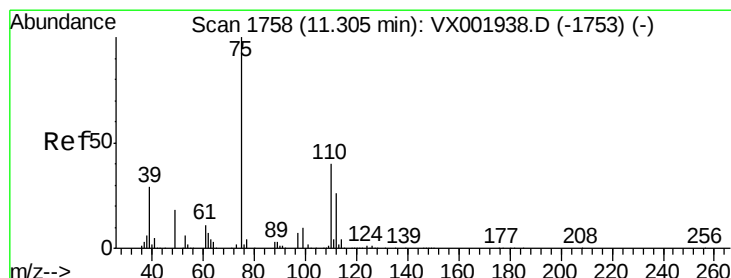
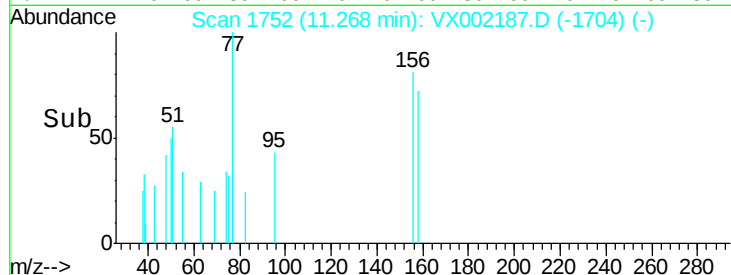
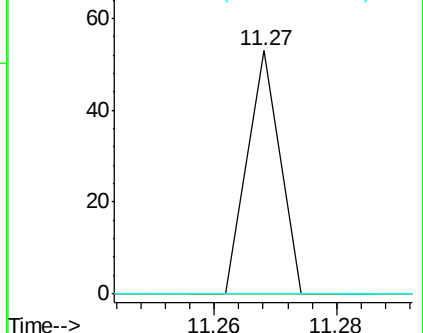
85 0.0 32.6 97.7#



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



#76

1,2,3-Trichloropropane

Concen: 26.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002187.D

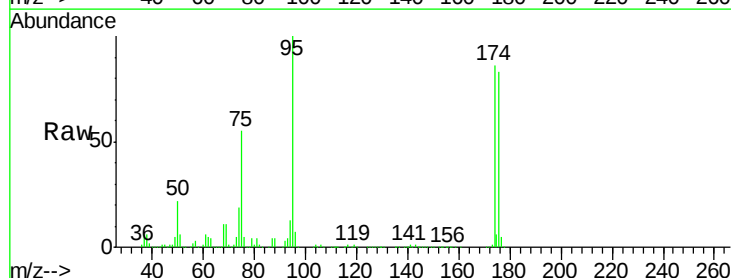
Acq: 31 May 2018 20:23

Tgt Ion: 75 Resp: 119231

Ion Ratio Lower Upper

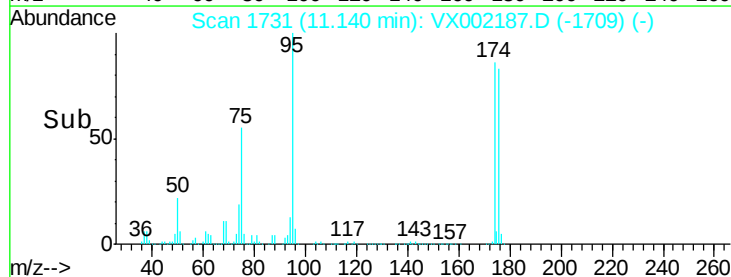
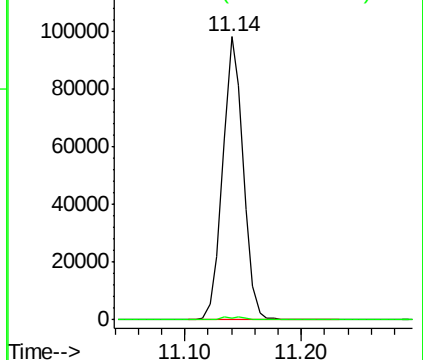
75 100

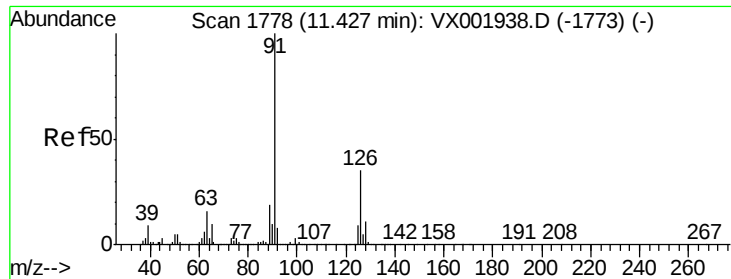
77 1.1 22.8 68.3#



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# 1778

Delta R.T. 0.00 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Instrument :

MSVOA_X

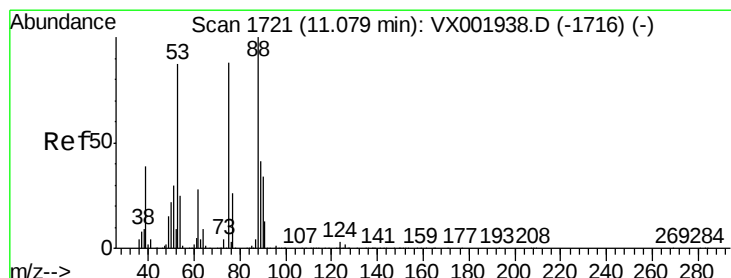
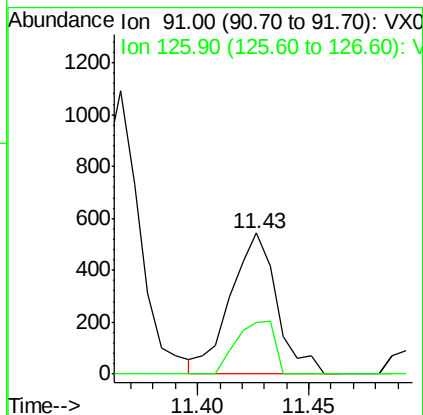
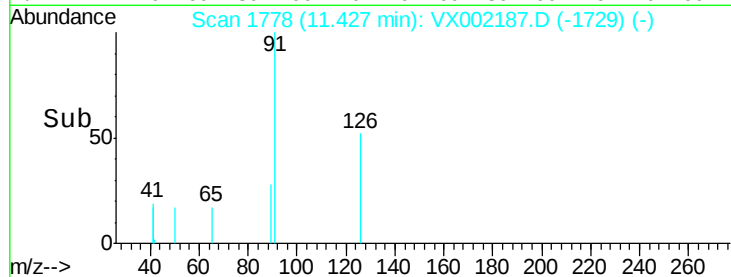
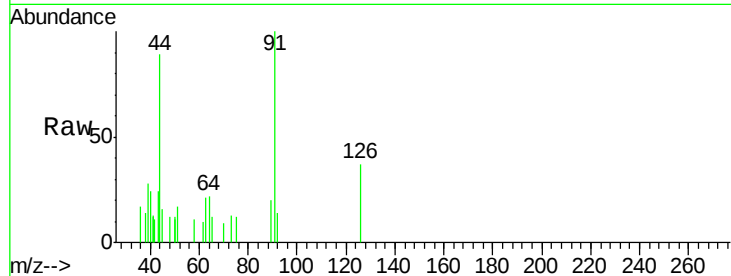
ClientSampled :

Tot Ion: 91 Resp: 789

Ion Ratio Lower Upper

91 100

126 30.8 17.4 52.2



#81

trans-1,4-Dichloro-2-butene

Concen: 64.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002187.D

Acq: 31 May 2018 20:23

Tgt Ion: 75 Resp: 119231

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

