

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX033118\
 Data File : VX000595.D
 Acq On : 31 Mar 2018 16:08
 Operator : JC/MD
 Sample : J1752-08 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 05:18:03 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	123283	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	206912	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	206620	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	113367	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	82005	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
35) Dibromofluoromethane	5.51	113	66130	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	8.72	98	259001	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	11.15	95	94320	42.41	ug/l	0.00
Spiked Amount			Recovery	=	84.82%	

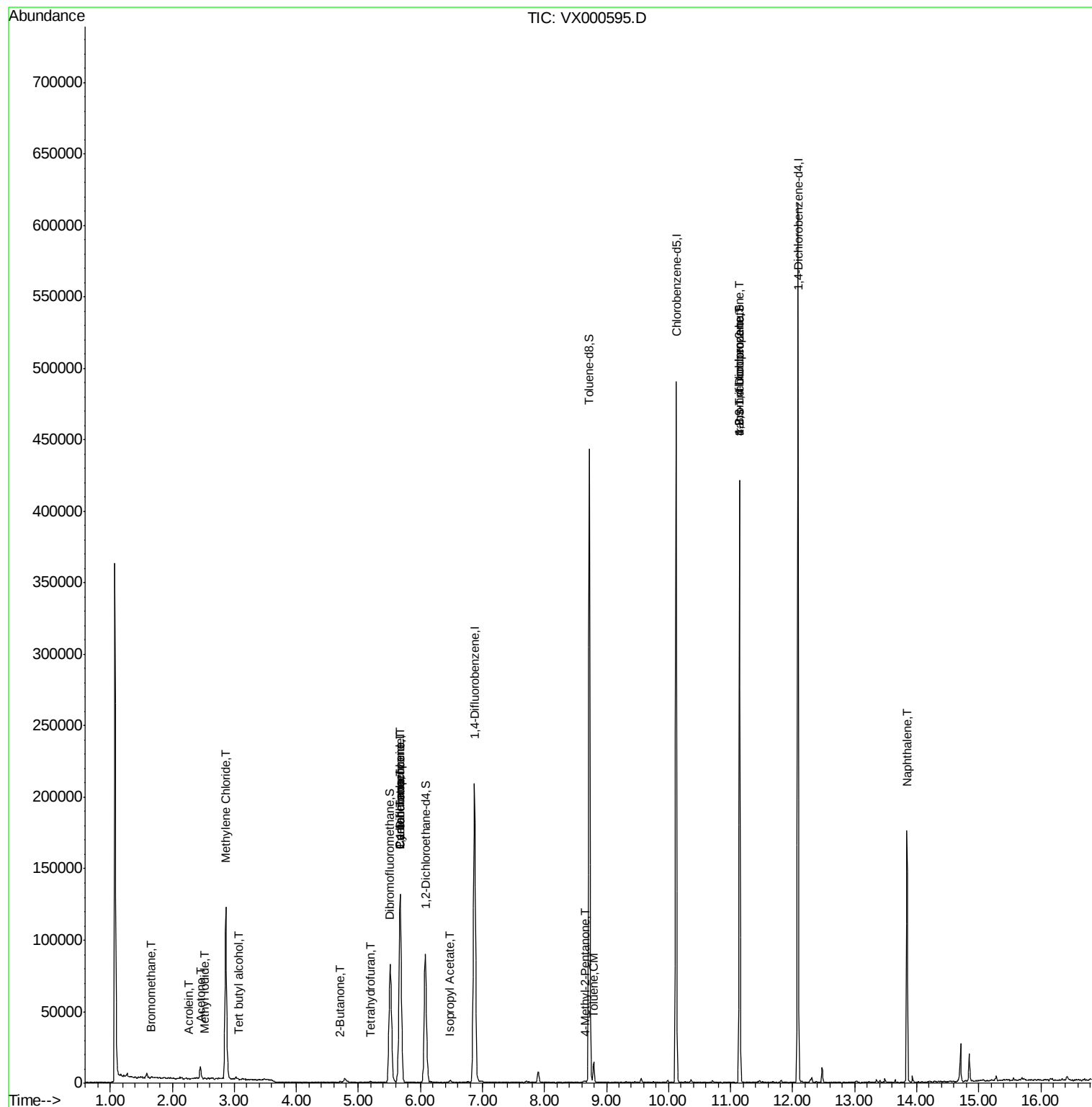
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	312	0.218	ug/l #	52
6) Chloroethane	1.72	64	757	Below Cal	#	44
10) Methyl Iodide	2.52	142	119	4.348	ug/l #	87
11) Tert butyl alcohol	3.07	59	125	0.226	ug/l #	72
13) Acrolein	2.27	56	65	14.924	ug/l #	45
14) Allyl chloride	2.72	41	163	Below Cal	#	1
16) Acetone	2.45	43	10009	7.477	ug/l	99
20) Methylene Chloride	2.86	84	54709	35.382	ug/l	94
25) 2-Butanone	4.70	43	309	0.205	ug/l #	77
29) Tetrahydrofuran	5.20	42	326	0.352	ug/l #	64
31) Cyclohexane	5.67	56	3132	1.543	ug/l #	48
36) 1,1-Dichloropropene	5.67	75	9420	4.860	ug/l #	51
38) Carbon Tetrachloride	5.67	117	12484	6.140	ug/l #	15
43) Isopropyl Acetate	6.48	43	1518	0.385	ug/l	96
51) 4-Methyl-2-Pentanone	8.66	43	763	0.250	ug/l #	66
52) Toluene	8.79	92	4476	1.138	ug/l	98
74) N-amyl acetate	6.48	43	1518	Below Cal	#	95
76) 1,2,3-Trichloropropane	11.15	75	55147	22.635	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.15	75	55147	73.282	ug/l #	9
95) Naphthalene	13.84	128	102537	11.069	ug/l	99

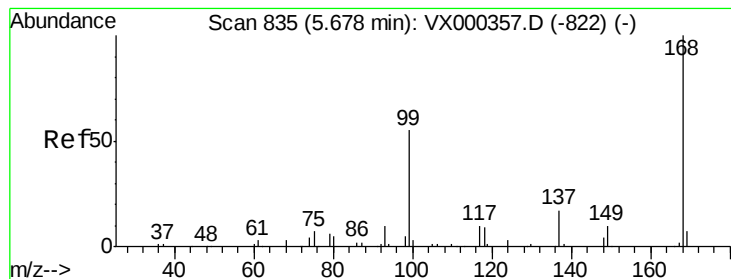
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Instrument :

MSVOA_X

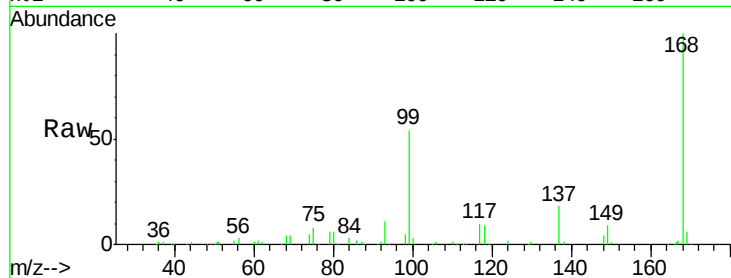
ClientSampled :

Tot Ion:168 Resp: 123283

Ion Ratio Lower Upper

168 100

99 53.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

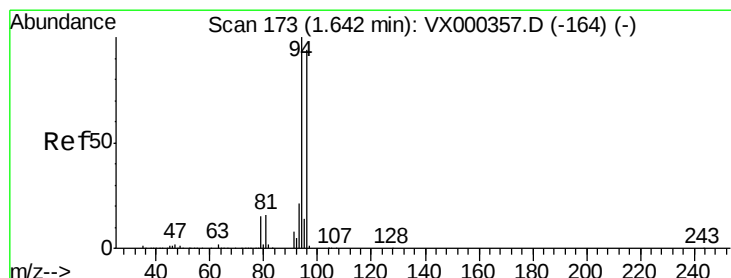
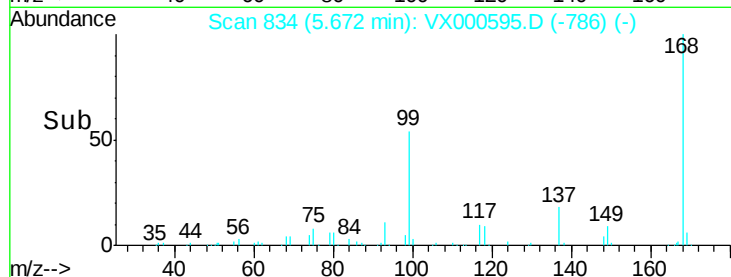
20000

10000

0

5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.218 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000595.D

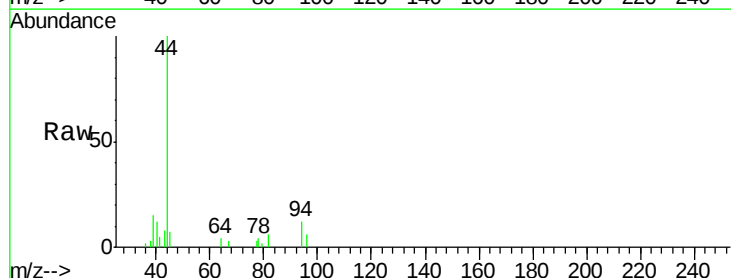
Acq: 31 Mar 2018 16:08

Tgt Ion: 94 Resp: 312

Ion Ratio Lower Upper

94 100

96 49.6 77.7 116.5#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

300

250

200

150

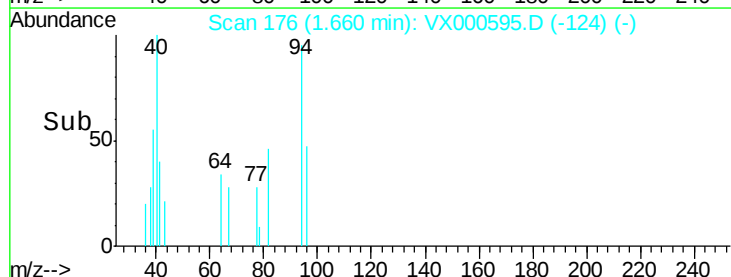
100

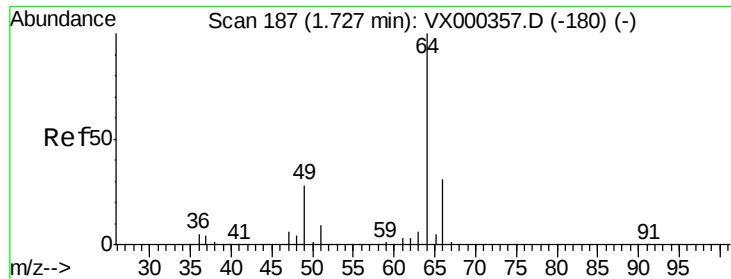
50

0

1.62 1.64 1.66 1.68 1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Instrument :

MSVOA_X

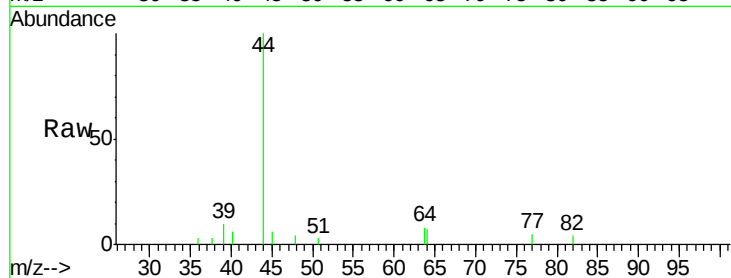
ClientSampled :

Tot Ion: 64 Resp: 757

Ion Ratio Lower Upper

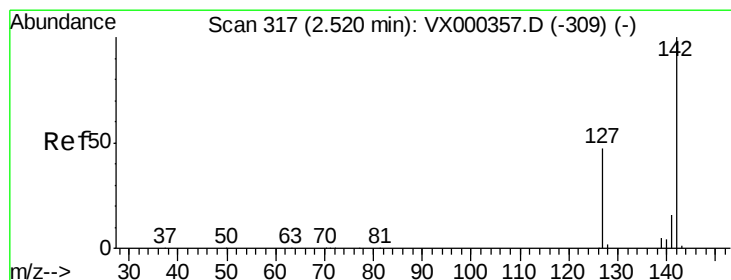
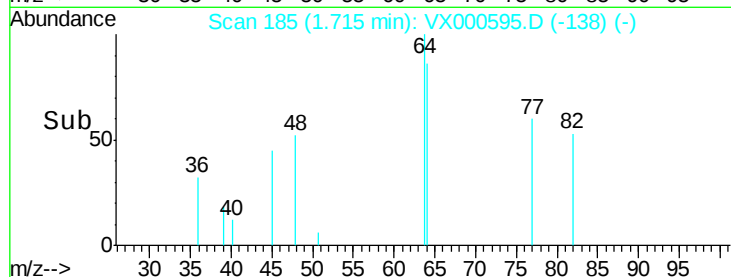
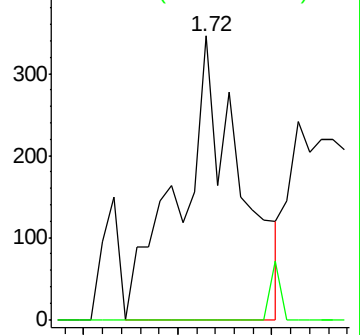
64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.348 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.00 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

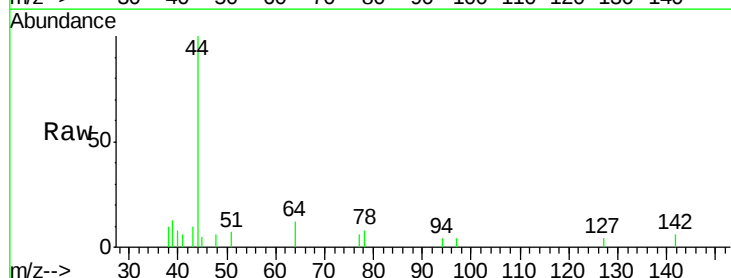
Tgt Ion:142 Resp: 119

Ion Ratio Lower Upper

142 100

127 44.5 39.2 58.8

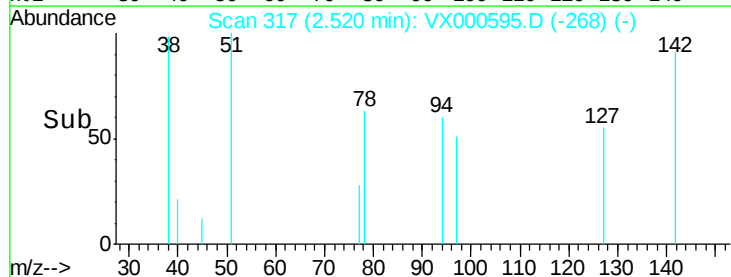
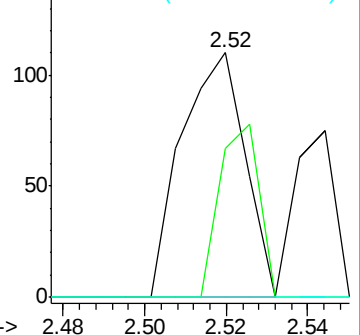
141 0.0 11.7 17.5#

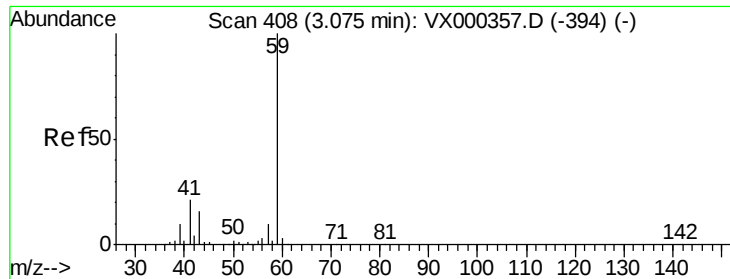


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



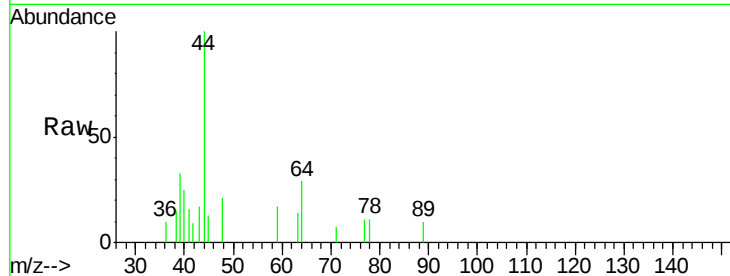


#11

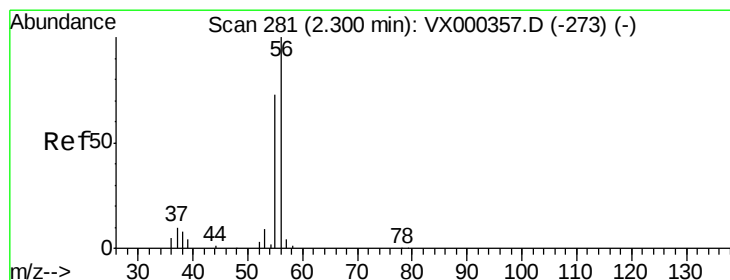
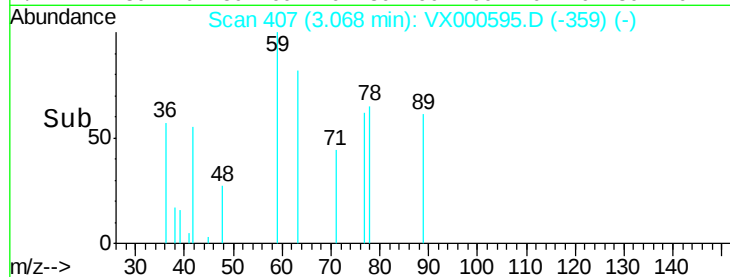
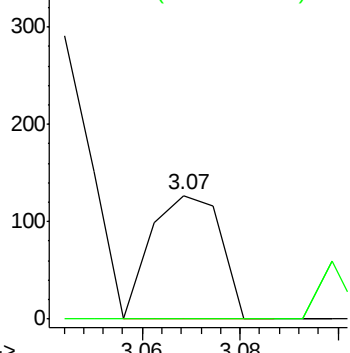
Tert butyl alcohol
Concen: 0.226 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 59 Resp: 125
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



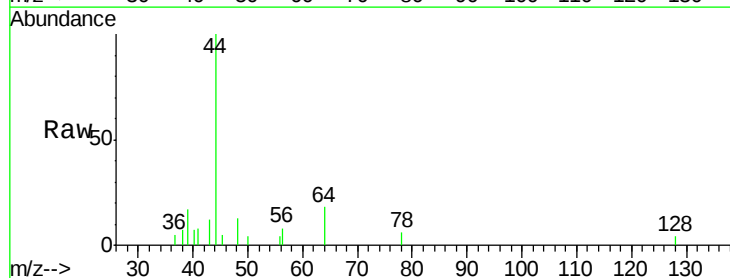
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



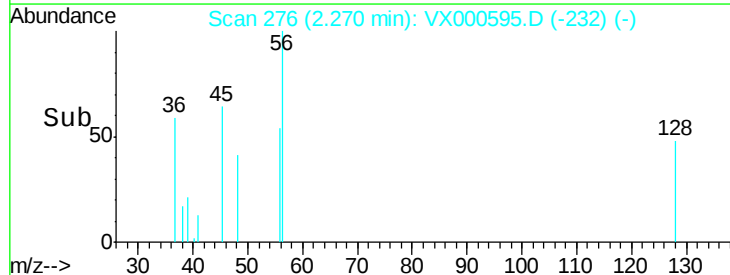
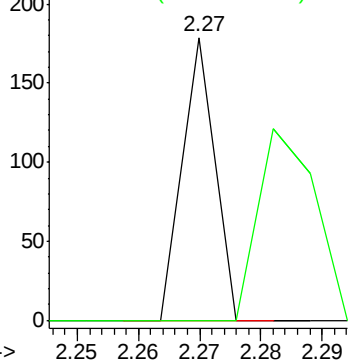
#13

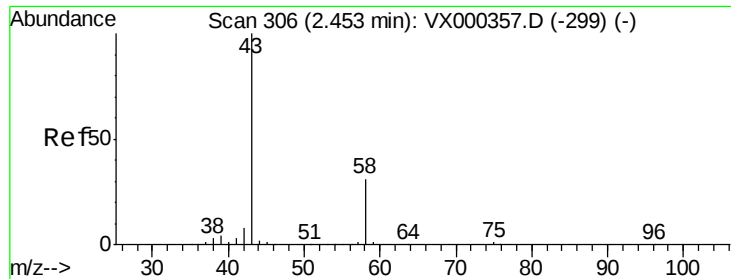
Acrolein
Concen: 14.924 ug/l
RT: 2.27 min Scan# 276
Delta R.T. -0.03 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

Tgt Ion: 56 Resp: 65
Ion Ratio Lower Upper
56 100
55 120.0 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 7.477 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Instrument :

MSVOA_X

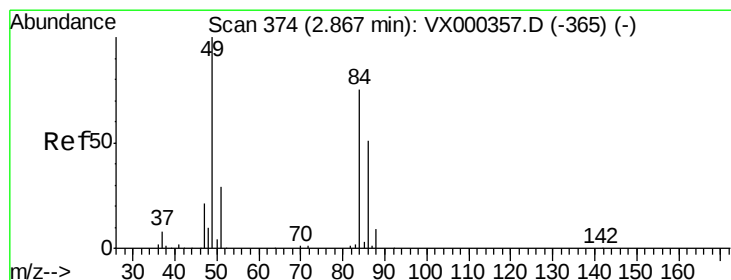
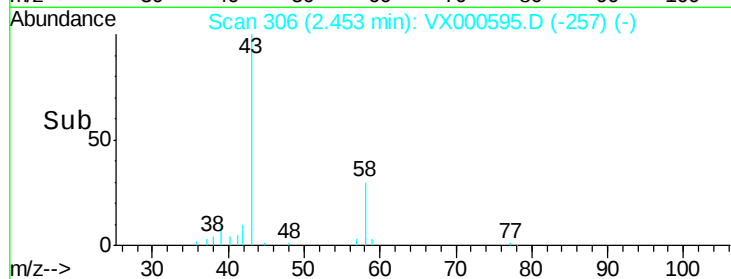
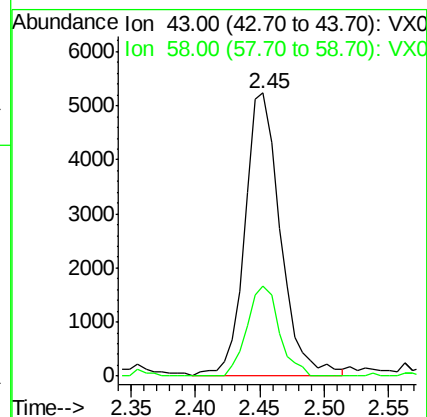
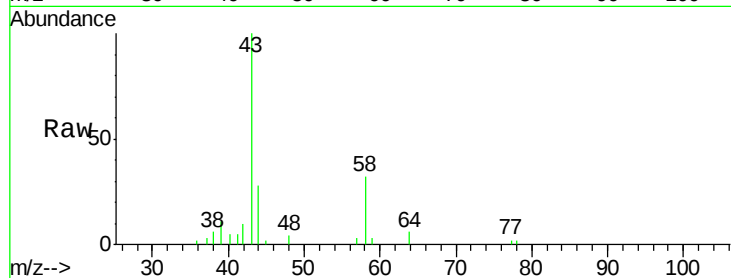
ClientSampleId :

Tot Ion: 43 Resp: 10009

Ion Ratio Lower Upper

43 100

58 31.7 24.7 37.1



#20

Methylene Chloride

Concen: 35.382 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.01 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Tgt Ion: 84 Resp: 54709

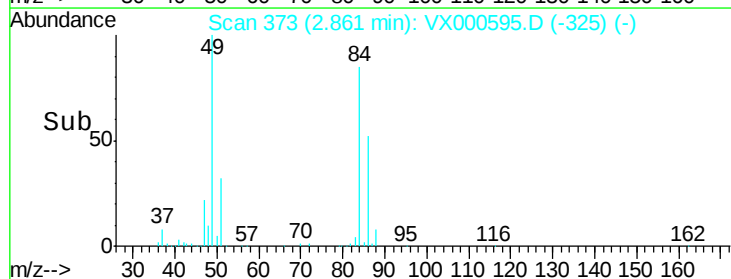
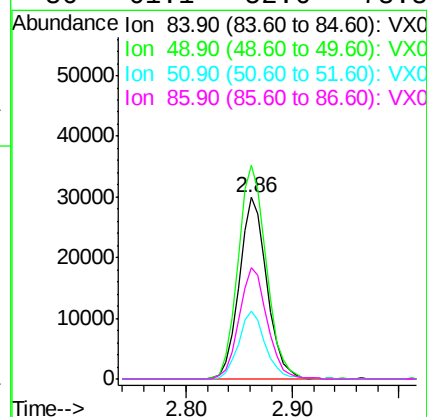
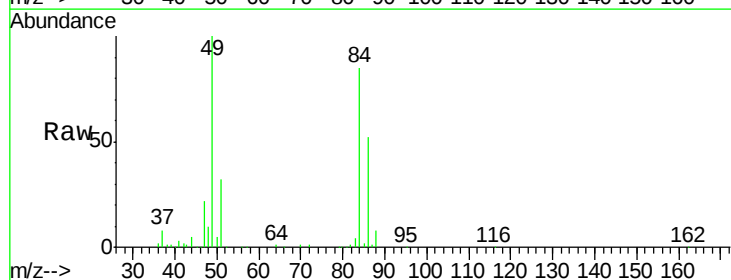
Ion Ratio Lower Upper

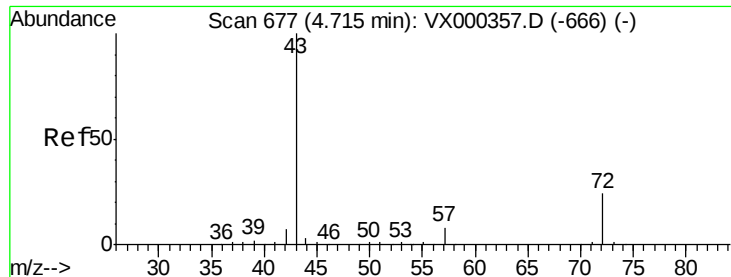
84 100

49 117.7 100.6 151.0

51 37.3 31.6 47.4

86 61.1 52.6 78.8





#25

2-Butanone

Concen: 0.205 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

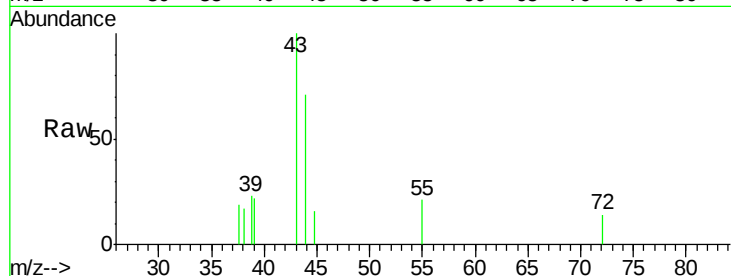
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 309

Ion Ratio Lower Upper

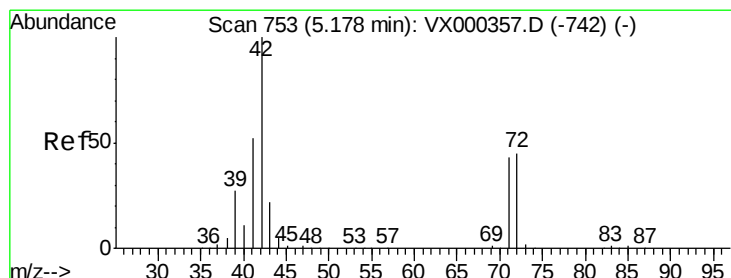
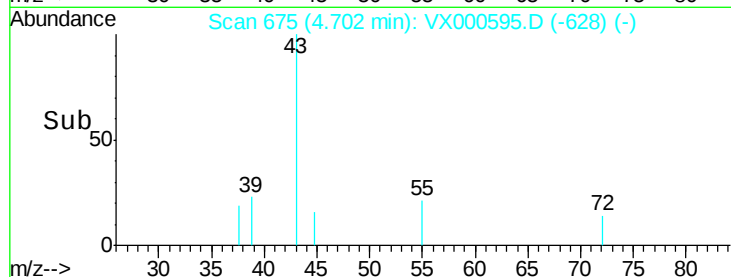
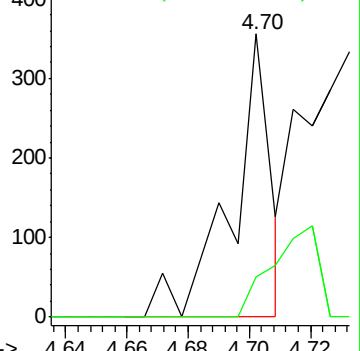
43 100

72 14.3 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.352 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

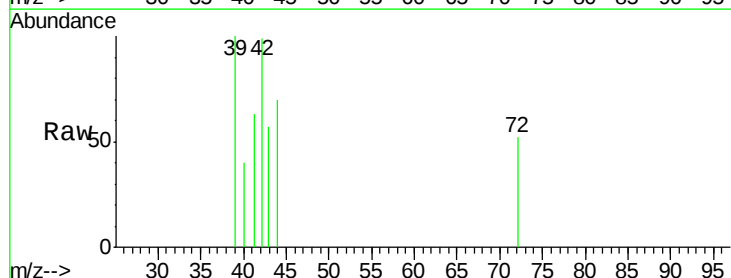
Tgt Ion: 42 Resp: 326

Ion Ratio Lower Upper

42 100

72 18.4 37.9 56.9#

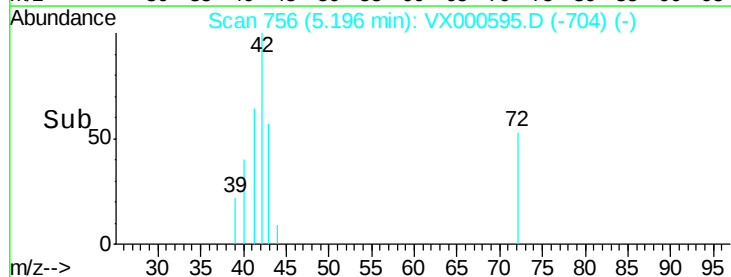
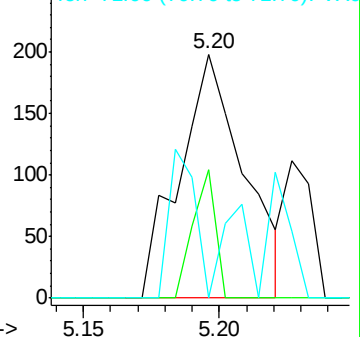
71 24.5 34.4 51.6#

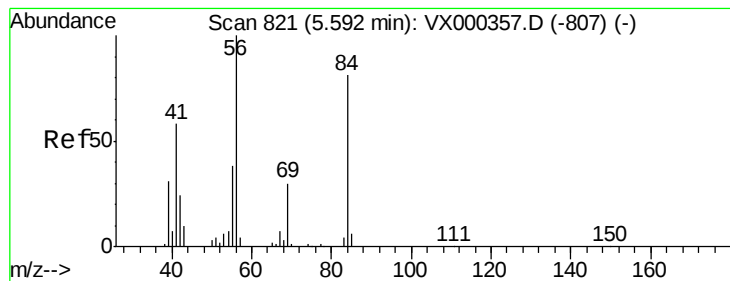


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.543 ug/l

RT: 5.67 min Scan# 833

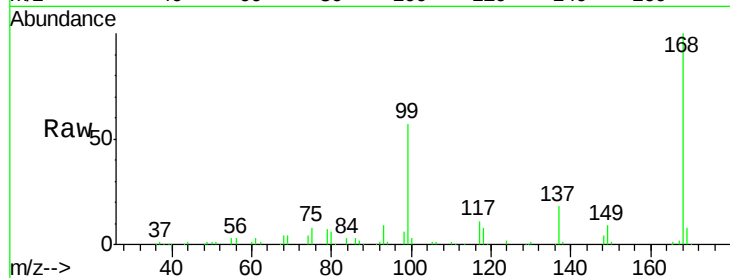
Delta R.T. 0.07 min

Lab File: VX000595.D

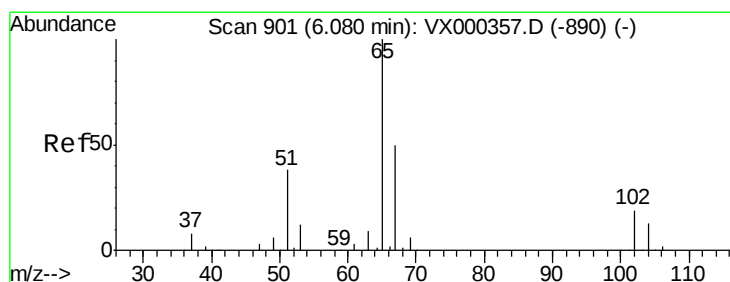
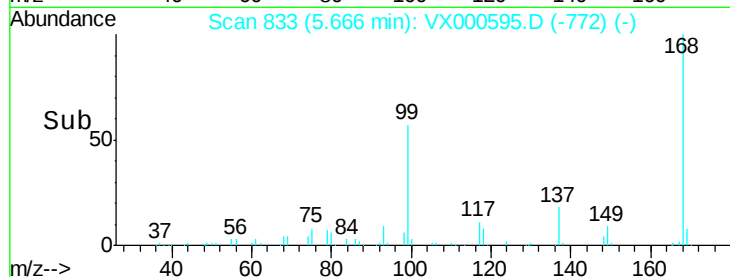
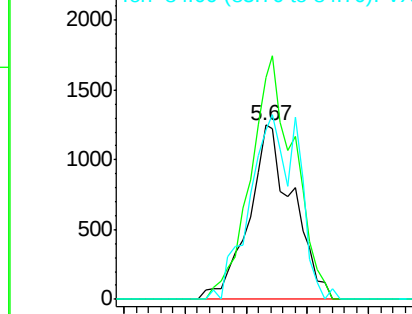
Acq: 31 Mar 2018 16:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3132
Ion Ratio Lower Upper
56 100
69 127.2 23.4 35.0#
84 96.9 71.0 106.4



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.958 ug/l

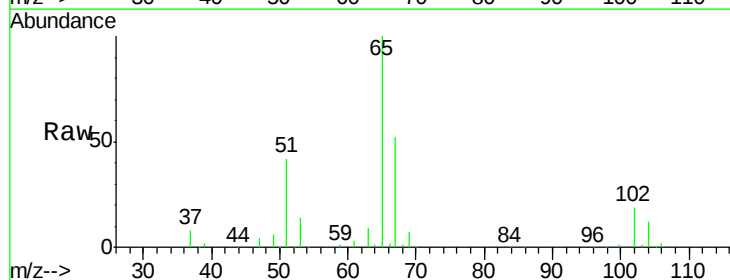
RT: 6.08 min Scan# 901

Delta R.T. 0.00 min

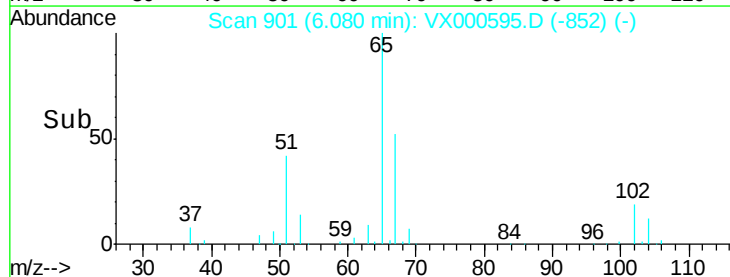
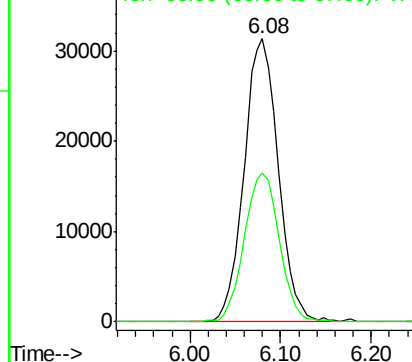
Lab File: VX000595.D

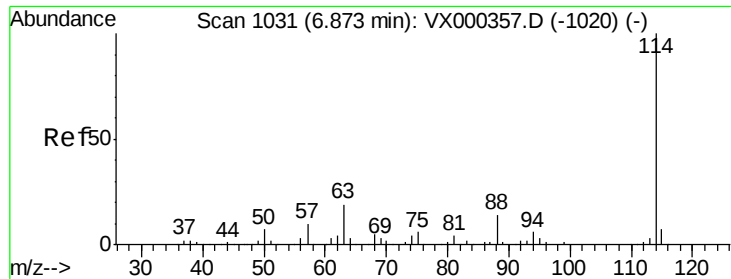
Acq: 31 Mar 2018 16:08

Tgt Ion: 65 Resp: 82005
Ion Ratio Lower Upper
65 100
67 53.8 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

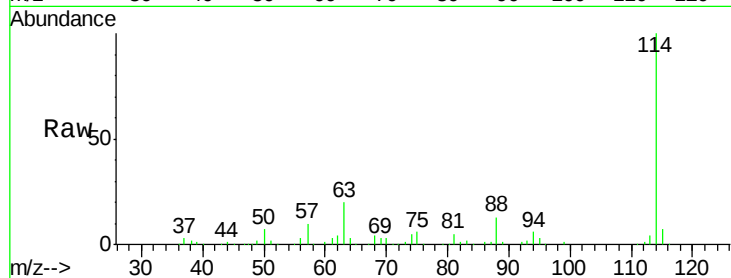




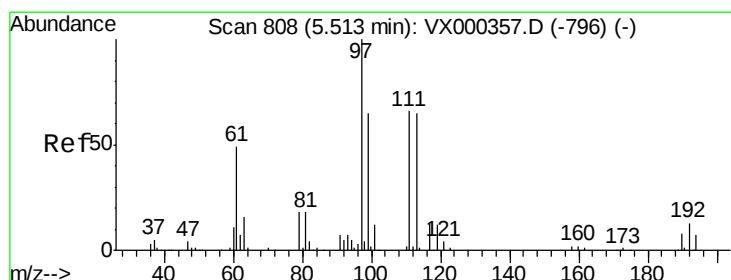
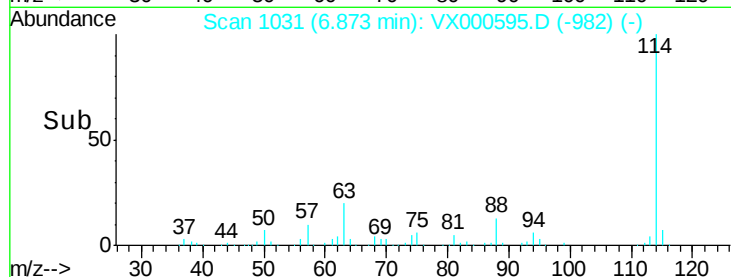
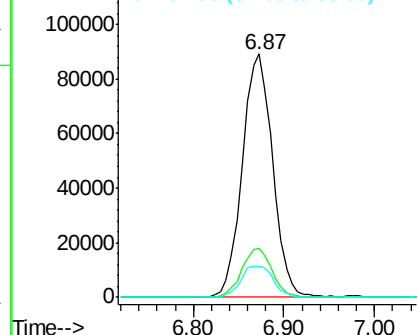
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 206912
Ion Ratio Lower Upper
114 100
63 19.9 0.0 38.4
88 12.7 0.0 27.0

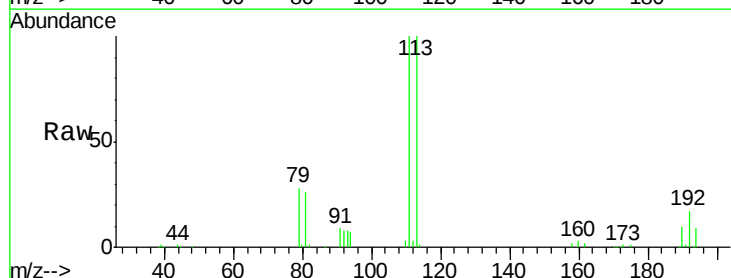


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

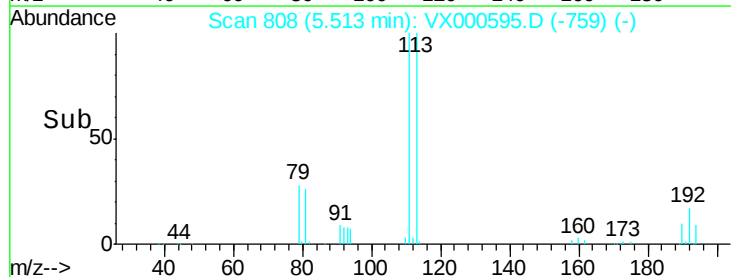
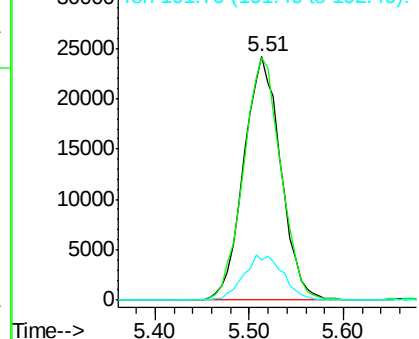


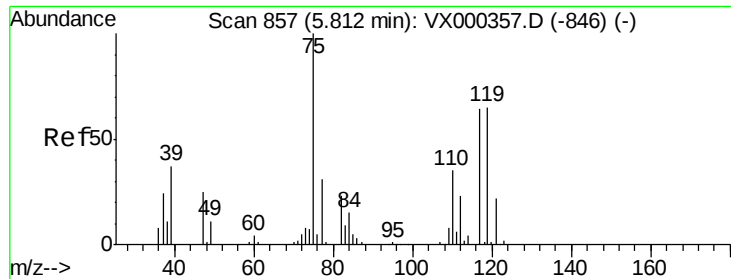
#35
Dibromofluoromethane
Concen: 50.724 ug/l
RT: 5.51 min Scan# 808
Delta R.T. -0.00 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

Tgt Ion:113 Resp: 66130
Ion Ratio Lower Upper
113 100
111 100.5 82.4 123.6
192 19.8 15.8 23.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

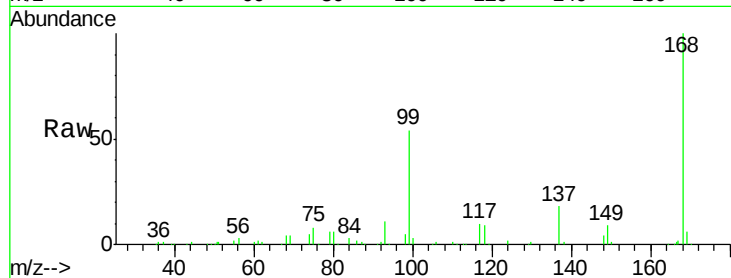




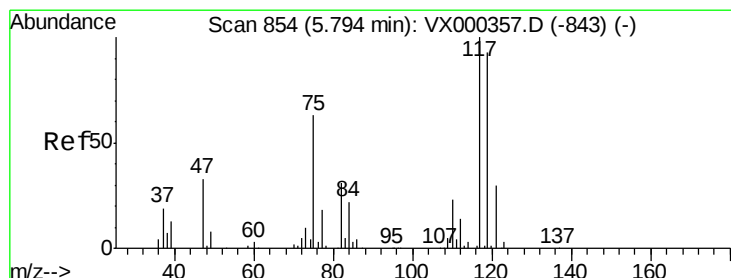
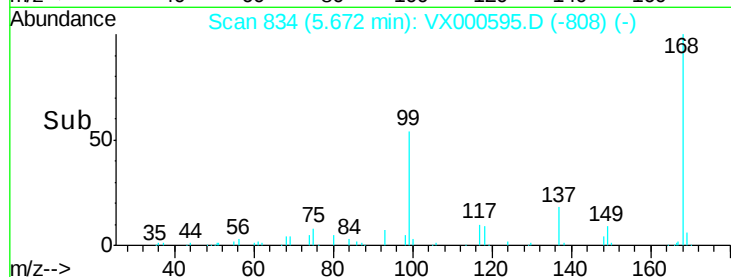
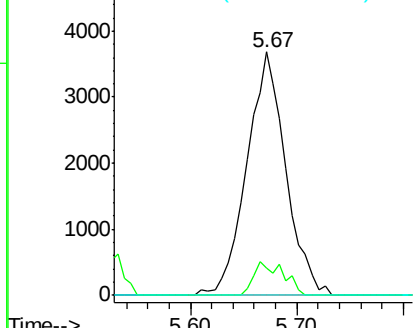
#36
 1,1-Dichloropropene
 Concen: 4.860 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.14 min
 Lab File: VX000595.D
 Acq: 31 Mar 2018 16:08

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 9420
 Ion Ratio Lower Upper
 75 100
 110 10.6 17.9 53.7#
 77 0.0 24.0 36.0#

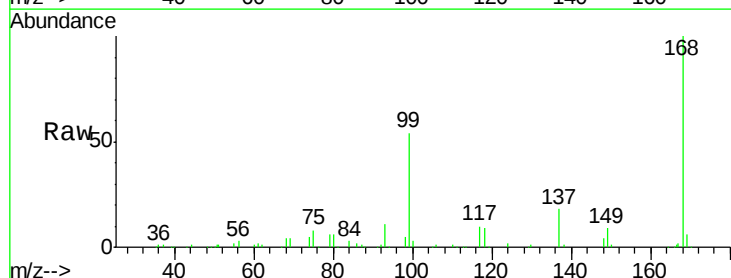


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

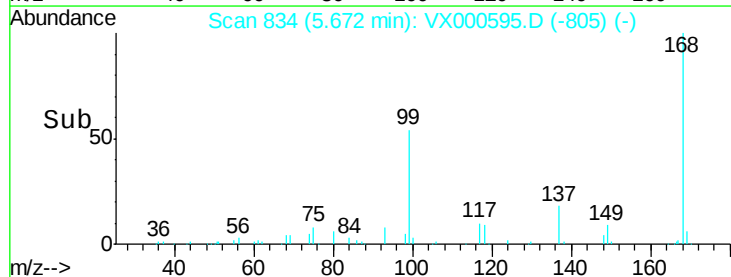
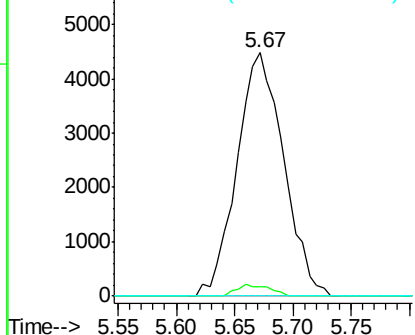


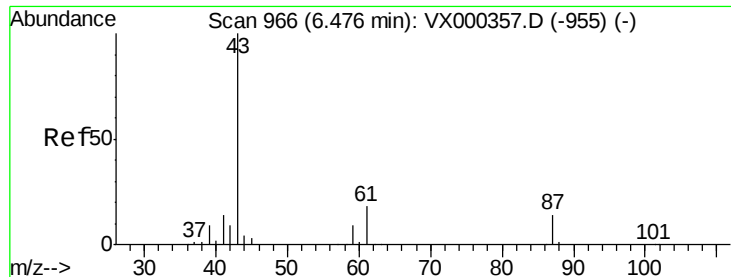
#38
 Carbon Tetrachloride
 Concen: 6.140 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000595.D
 Acq: 31 Mar 2018 16:08

Tgt Ion: 117 Resp: 12484
 Ion Ratio Lower Upper
 117 100
 119 4.0 77.4 116.2#
 121 0.0 24.8 37.2#



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





#43

Isopropyl Acetate

Concen: 0.385 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Instrument :

MSVOA_X

ClientSampleId :

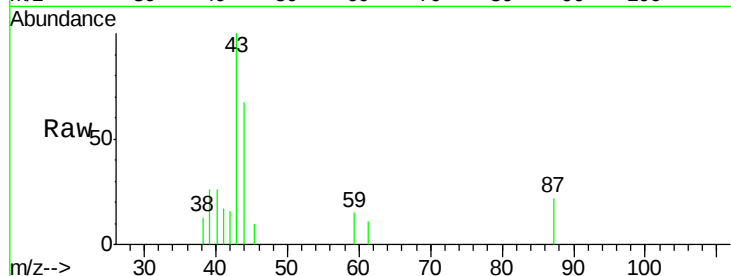
Tot Ion: 43 Resp: 1518

Ion Ratio Lower Upper

43 100

61 15.6 14.4 21.6

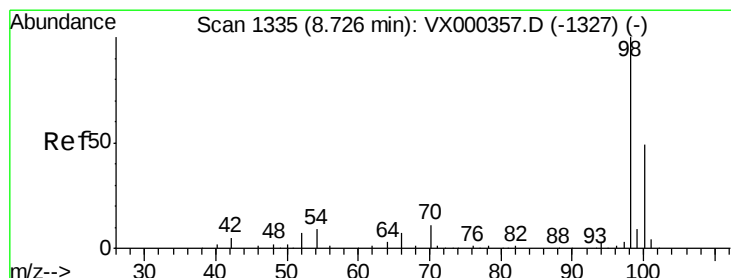
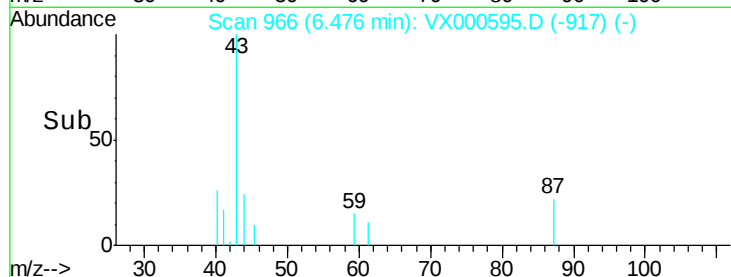
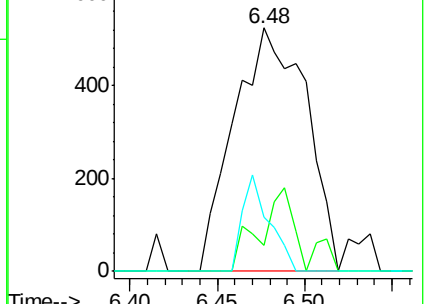
87 14.6 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 47.967 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VX000595.D

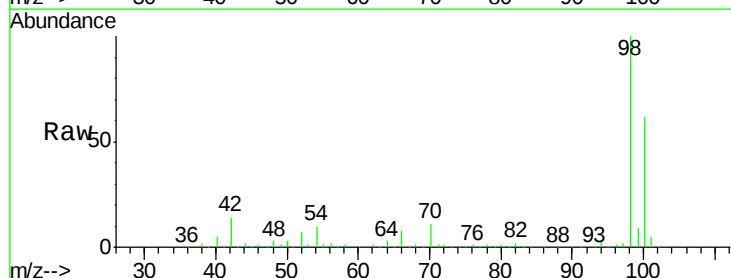
Acq: 31 Mar 2018 16:08

Tgt Ion: 98 Resp: 259001

Ion Ratio Lower Upper

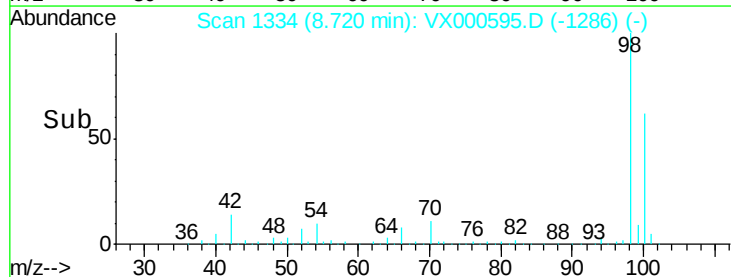
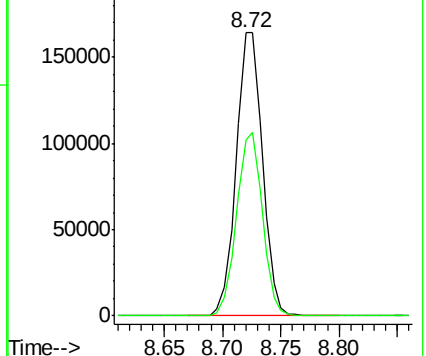
98 100

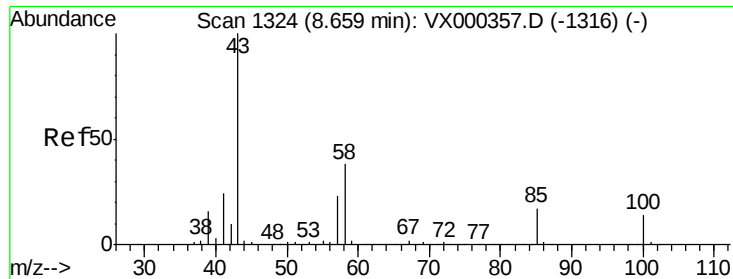
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.250 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Instrument :

MSVOA_X

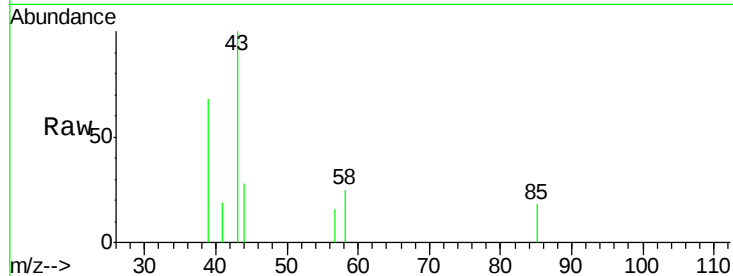
ClientSampled :

Tot Ion: 43 Resp: 763

Ion Ratio Lower Upper

43 100

58 17.4 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.66

500

400

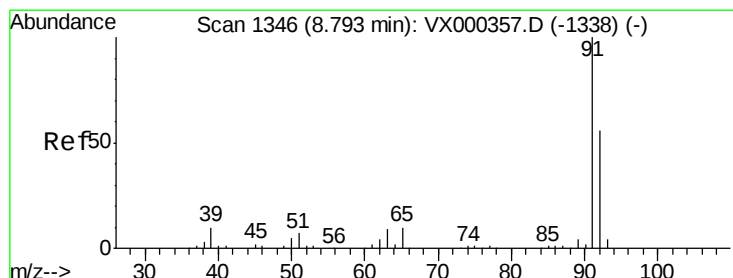
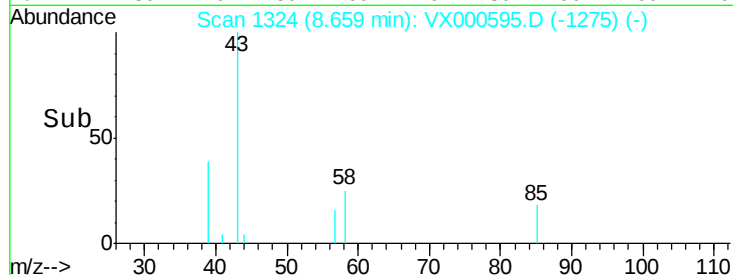
300

200

100

0

Time--> 8.62 8.64 8.66 8.68



#52

Toluene

Concen: 1.138 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000595.D

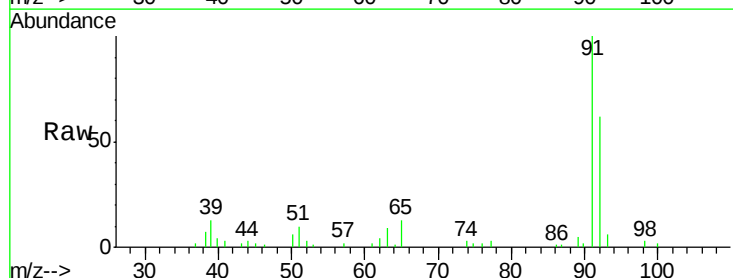
Acq: 31 Mar 2018 16:08

Tgt Ion: 92 Resp: 4476

Ion Ratio Lower Upper

92 100

91 177.8 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

6000

5000

4000

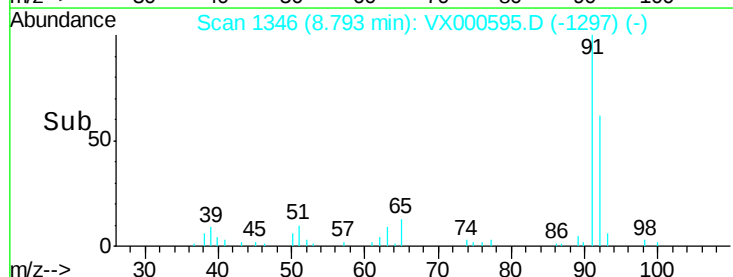
3000

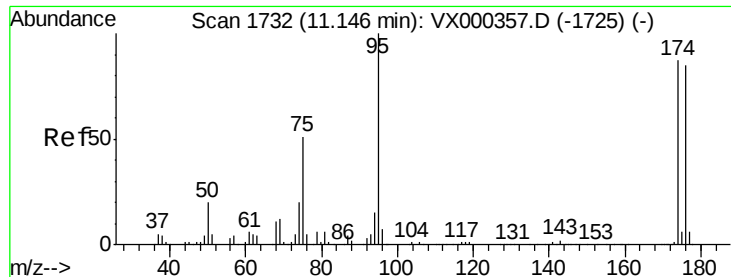
2000

1000

0

Time--> 8.75 8.80 8.85

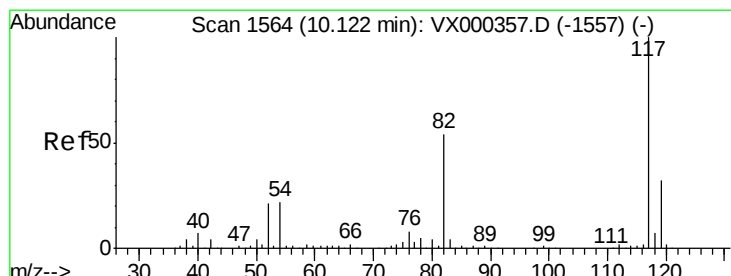
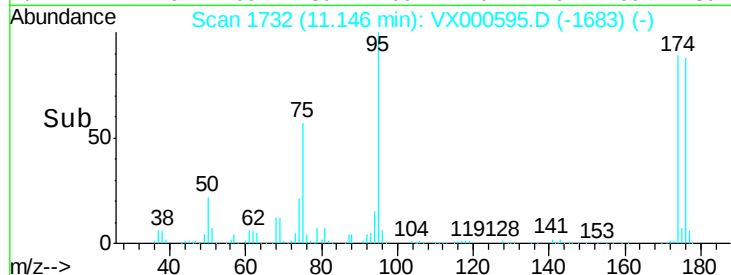
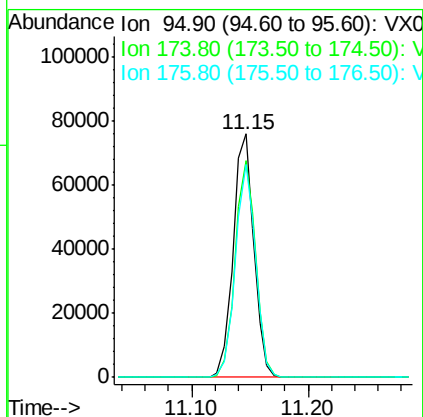
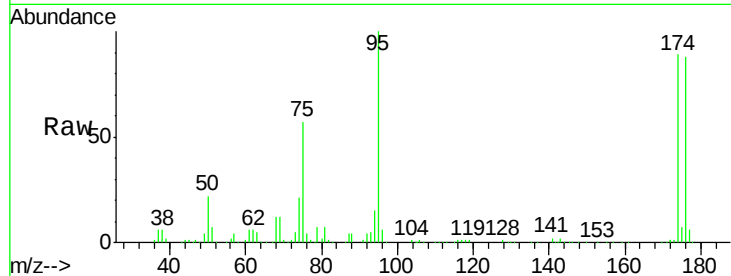




#62
4-Bromofluorobenzene
Concen: 42.407 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

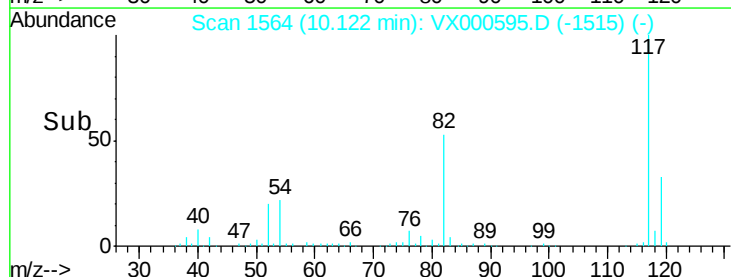
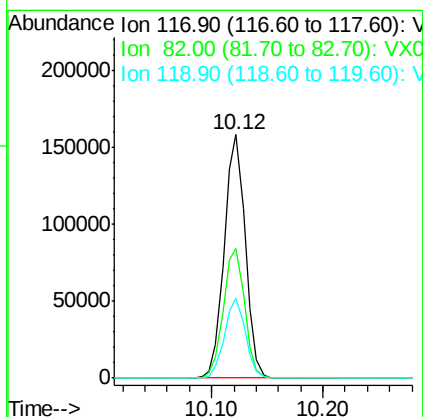
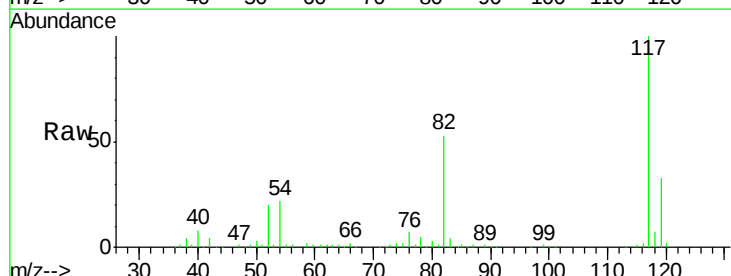
Instrument :
MSVOA_X
ClientSampleId :

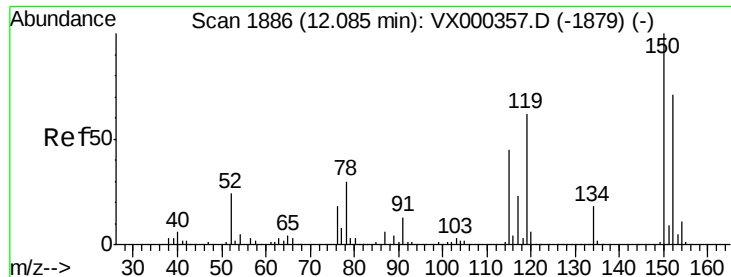
Tot Ion: 95 Resp: 94320
Ion Ratio Lower Upper
95 100
174 88.3 0.0 173.6
176 85.5 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

Tgt Ion: 117 Resp: 206620
Ion Ratio Lower Upper
117 100
82 53.3 43.8 65.8
119 32.6 24.9 37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000595.D

Acq: 31 Mar 2018 16:08

Instrument :

MSVOA_X

ClientSampleId :

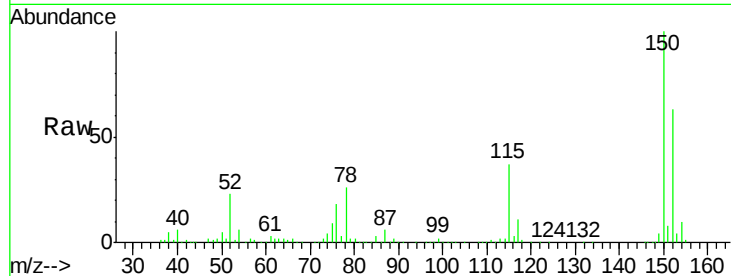
Tot Ion:152 Resp: 113367

Ion Ratio Lower Upper

152 100

115 56.7 39.8 119.3

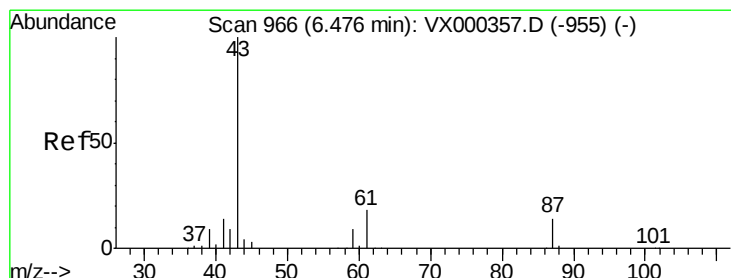
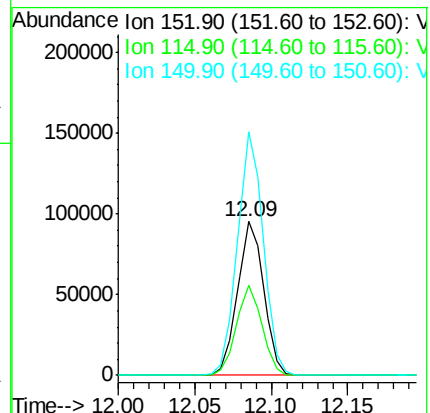
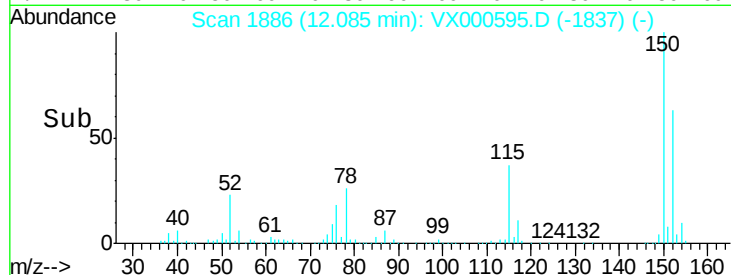
150 156.1 0.0 344.4



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: VX000595.D

Acq: 31 Mar 2018 16:08

Tgt Ion: 43 Resp: 1518

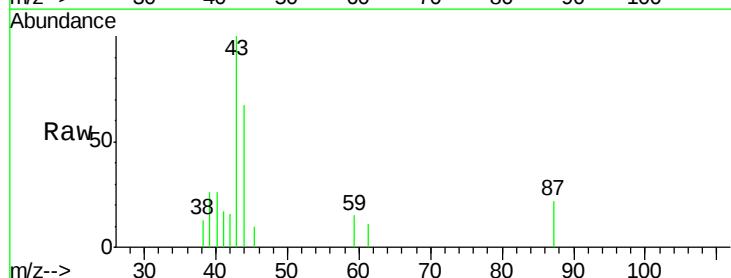
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 15.6 14.4 21.6

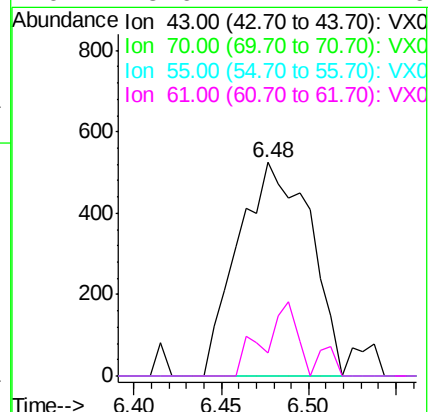
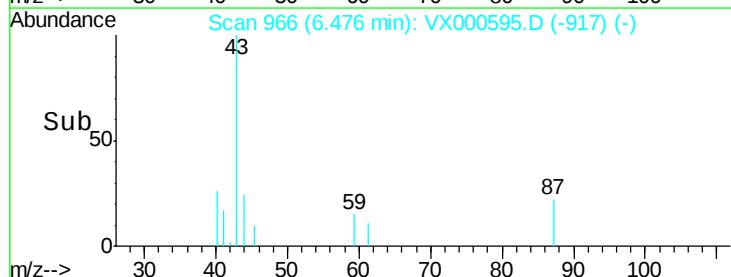


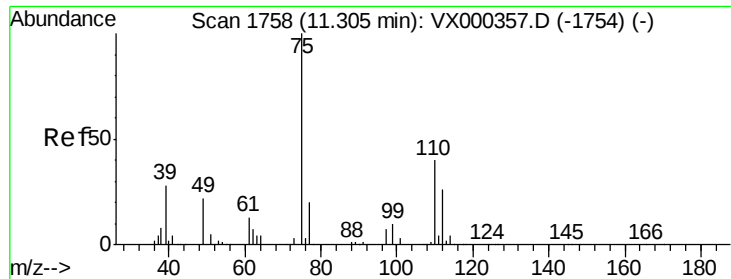
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

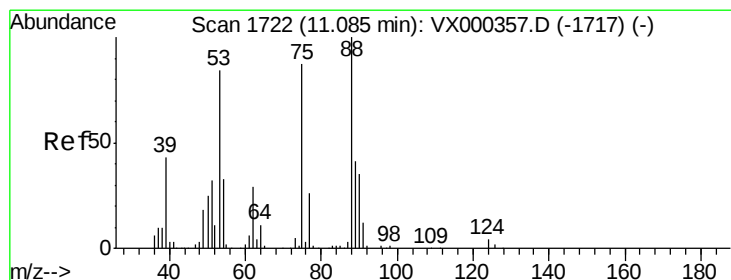
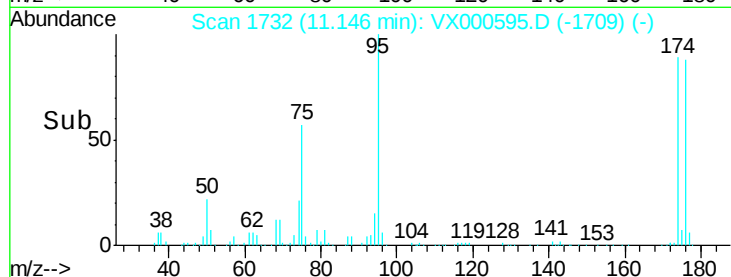
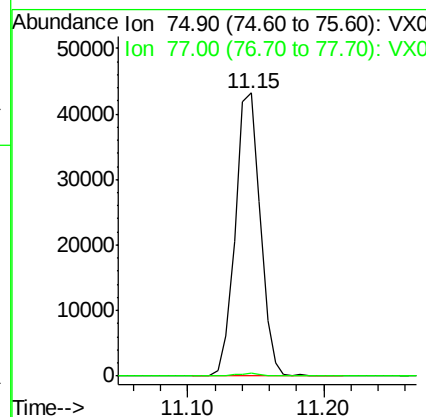
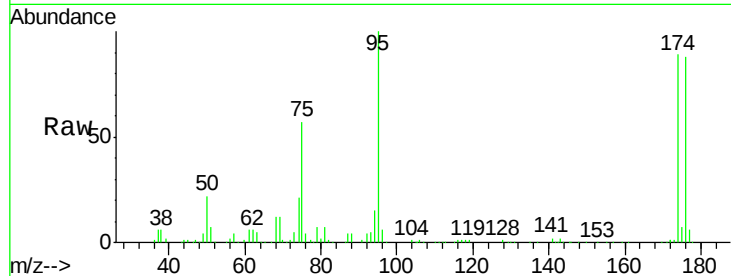




#76
 1,2,3-Trichloropropane
 Concen: 22.635 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000595.D
 Acq: 31 Mar 2018 16:08

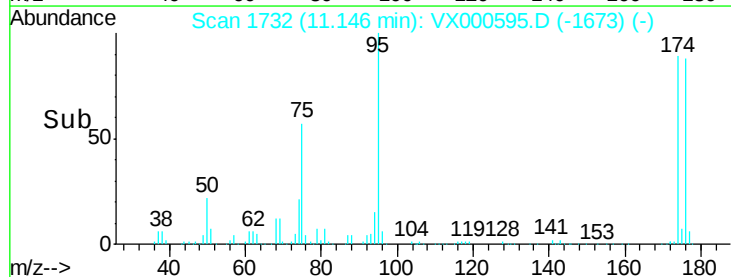
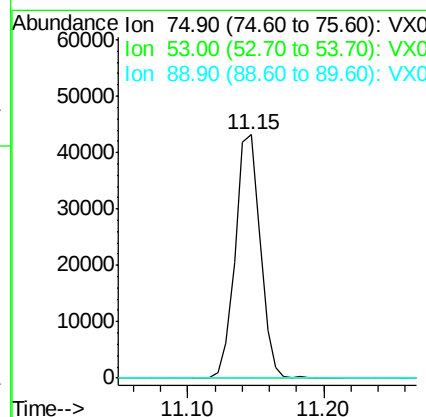
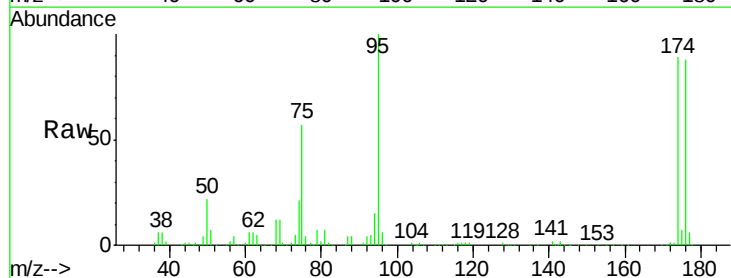
Instrument :
 MSVOA_X
 ClientSampleId :

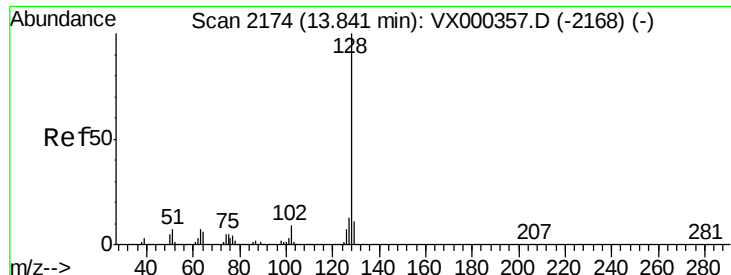
Tot Ion: 75 Resp: 55147
 Ion Ratio Lower Upper
 75 100
 77 1.0 21.4 64.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.282 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.06 min
 Lab File: VX000595.D
 Acq: 31 Mar 2018 16:08

Tgt Ion: 75 Resp: 55147
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.7 121.1#
 89 0.0 39.4 59.0#





#95
Naphthalene
Concen: 11.069 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000595.D
Acq: 31 Mar 2018 16:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	15.8
129	10.6	8.9	13.3

