

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041318\
 Data File : VX000854.D
 Acq On : 13 Apr 2018 17:16
 Operator : JC/MD
 Sample : J2335-02 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S1

Quant Time: Apr 14 05:15:00 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	254733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336052	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	197838	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	146389	45.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.16%	
35) Dibromofluoromethane	5.51	113	119623	46.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.40%	
50) Toluene-d8	8.72	98	460505	47.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.54%	
62) 4-Bromofluorobenzene	11.15	95	177957	44.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.24%	

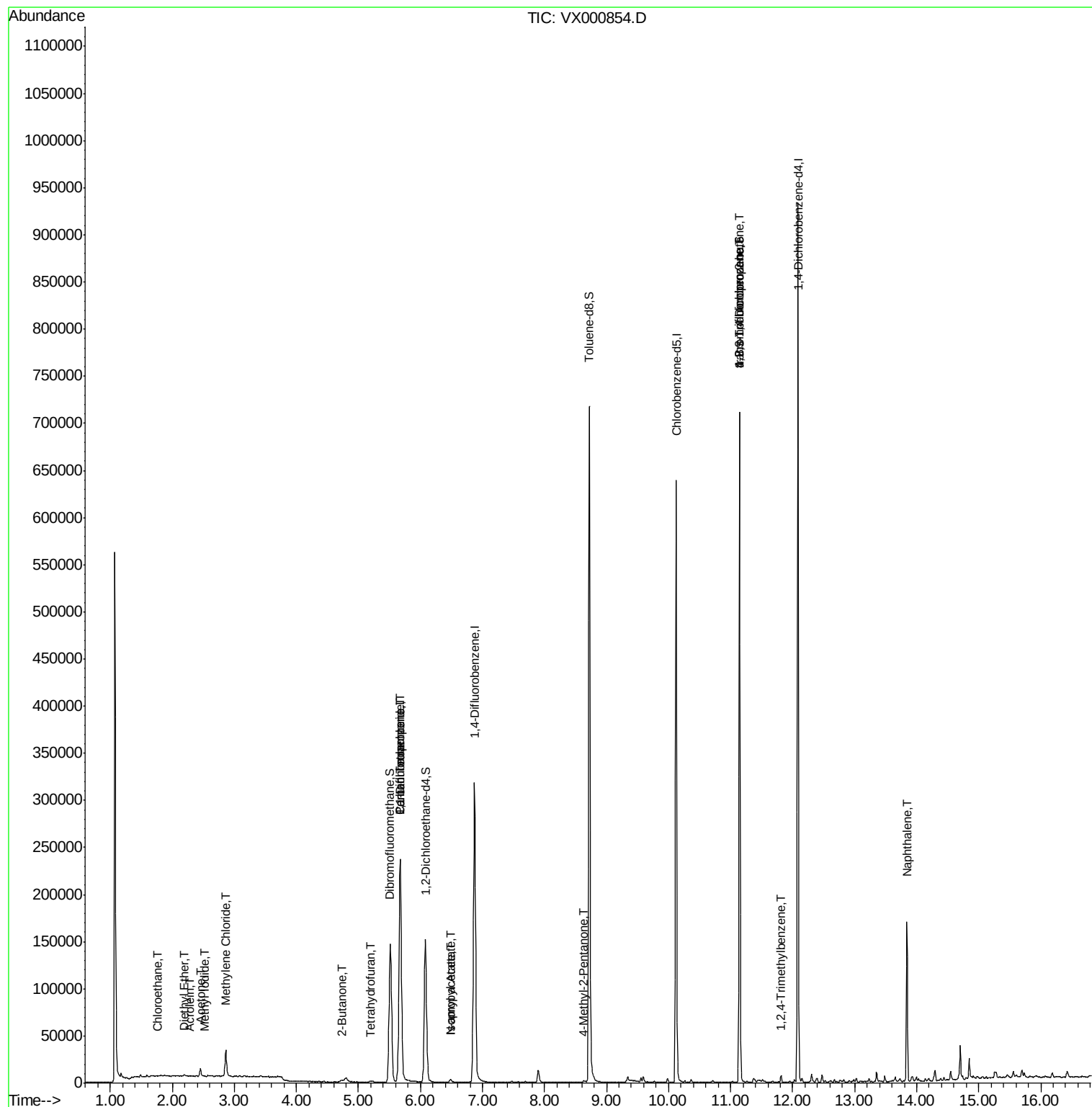
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	406	Below Cal	#	73
6) Chloroethane	1.76	64	542	0.32	ug/l	97
8) Diethyl Ether	2.20	74	541	0.35	ug/l	95
10) Methyl Iodide	2.52	142	327	8.37	ug/l	# 85
13) Acrolein	2.29	56	237	0.86	ug/l	# 82
16) Acetone	2.45	43	8928	8.06	ug/l	97
20) Methylene Chloride	2.86	84	12858	4.99	ug/l	93
25) 2-Butanone	4.73	43	3501	1.91	ug/l	91
29) Tetrahydrofuran	5.19	42	502	0.43	ug/l	# 86
36) 1,1-Dichloropropene	5.67	75	15362	4.15	ug/l	# 39
38) Carbon Tetrachloride	5.67	117	21940	5.30	ug/l	# 15
43) Isopropyl Acetate	6.48	43	2904	0.47	ug/l	97
51) 4-Methyl-2-Pentanone	8.63	43	960	0.26	ug/l	# 37
74) N-amyl acetate	6.48	43	2904	0.51	ug/l	# 98
76) 1,2,3-Trichloropropane	11.15	75	84897	24.88	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.15	75	84897	68.45	ug/l	# 11
84) 1,2,4-Trimethylbenzene	11.82	105	3660	0.33	ug/l	100
95) Naphthalene	13.84	128	102130	7.09	ug/l	100

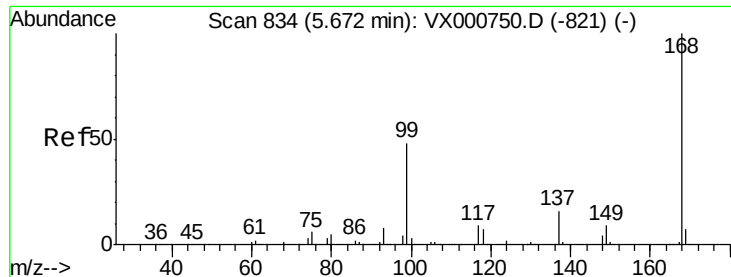
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampleId :

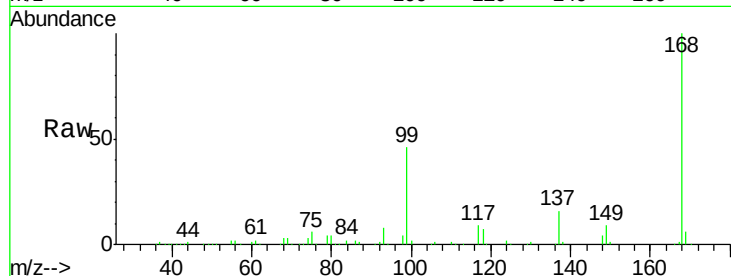
S1

Tgt Ion:168 Resp: 254733

Ion Ratio Lower Upper

168 100

99 46.4 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

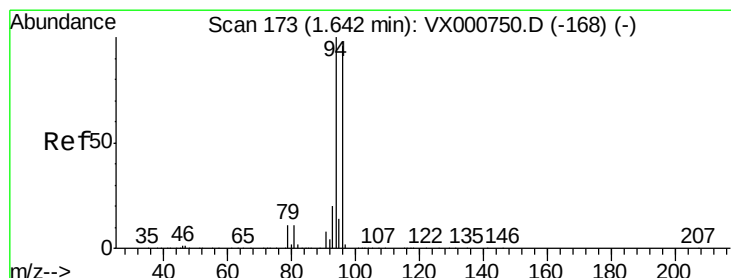
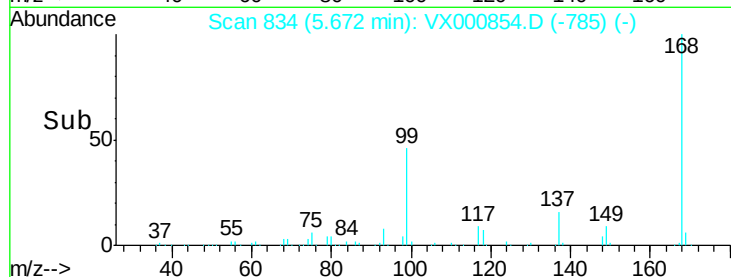
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000854.D

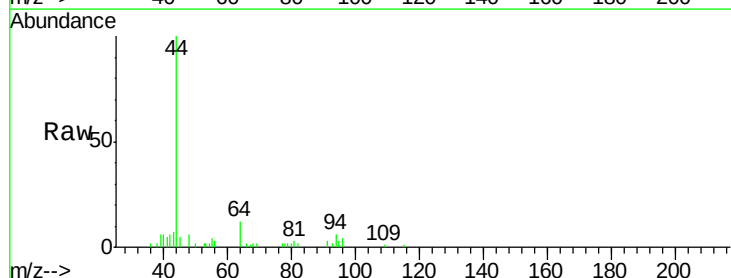
Acq: 13 Apr 2018 17:16

Tgt Ion: 94 Resp: 406

Ion Ratio Lower Upper

94 100

96 69.4 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

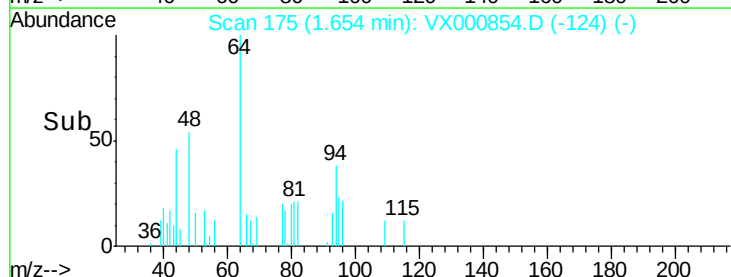
150

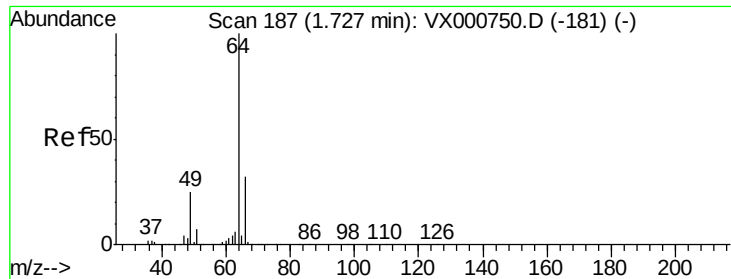
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.32 ug/l

RT: 1.76 min Scan# 192

Delta R.T. 0.03 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampled :

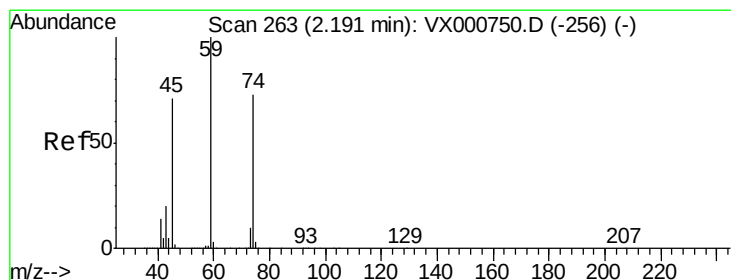
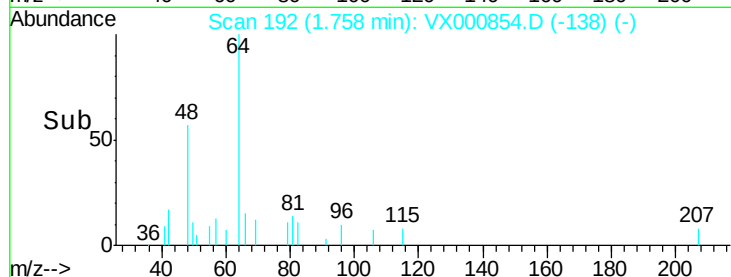
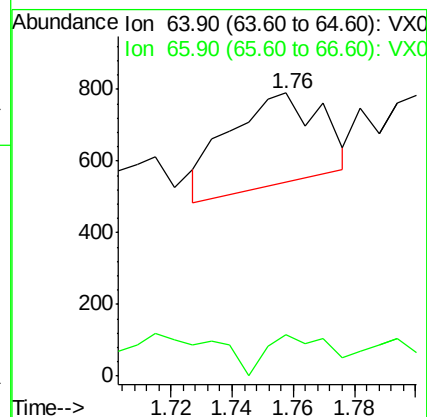
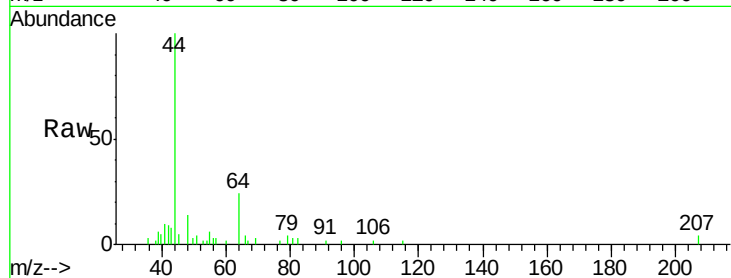
S1

Tgt Ion: 64 Resp: 542

Ion Ratio Lower Upper

64 100

66 29.8 25.3 37.9



#8

Diethyl Ether

Concen: 0.35 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX000854.D

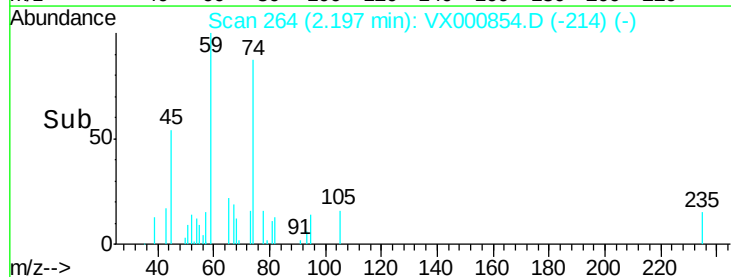
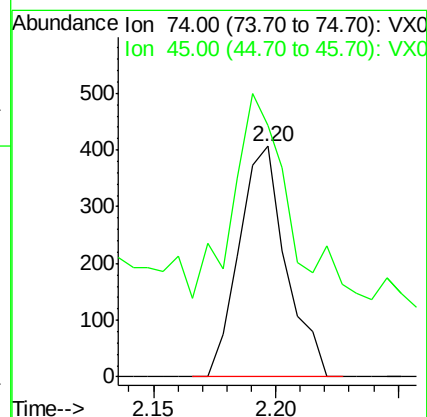
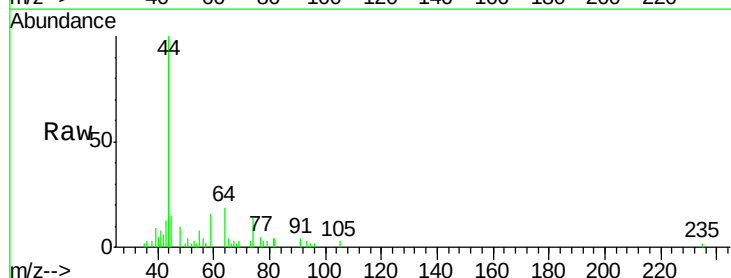
Acq: 13 Apr 2018 17:16

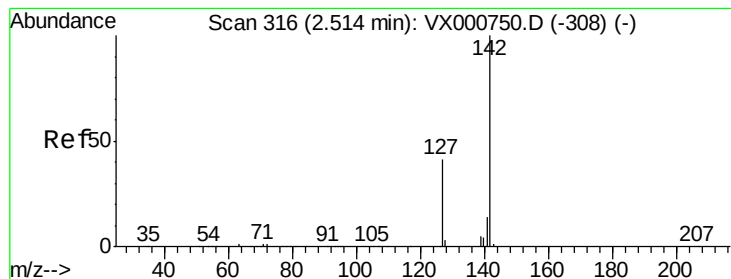
Tgt Ion: 74 Resp: 541

Ion Ratio Lower Upper

74 100

45 101.8 48.6 145.8





#10

Methyl Iodide

Concen: 8.37 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampled :

S1

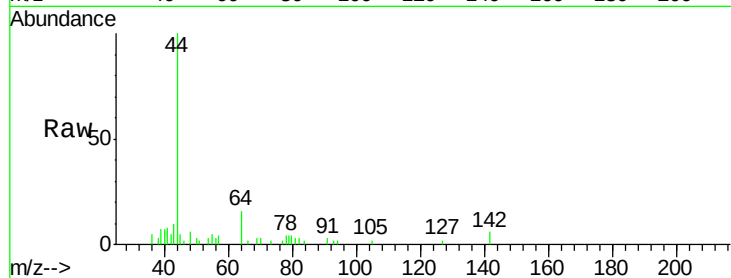
Tgt Ion:142 Resp: 327

Ion Ratio Lower Upper

142 100

127 35.5 32.6 49.0

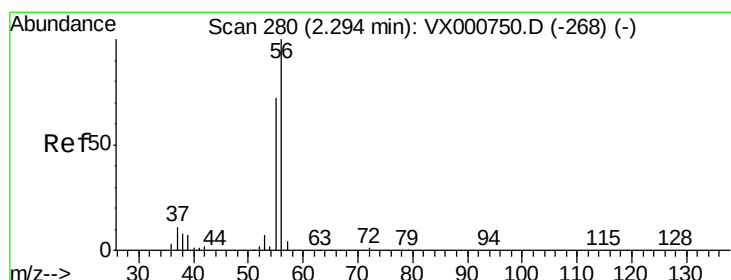
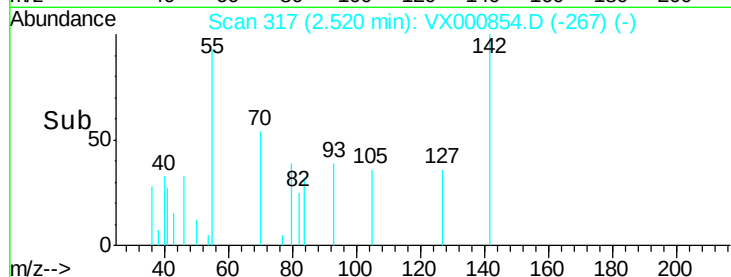
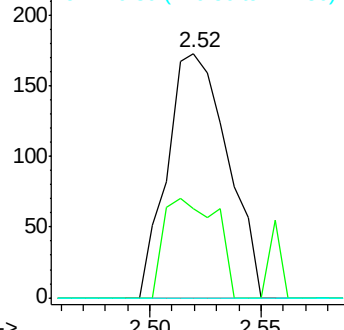
141 0.0 11.5 17.3#



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



#13

Acrolein

Concen: 0.86 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX000854.D

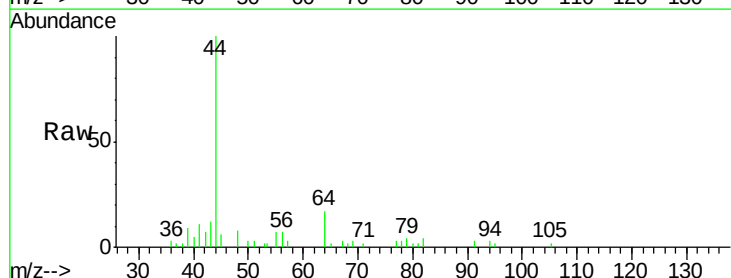
Acq: 13 Apr 2018 17:16

Tgt Ion: 56 Resp: 237

Ion Ratio Lower Upper

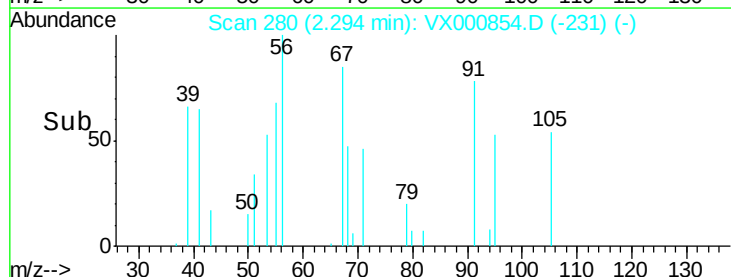
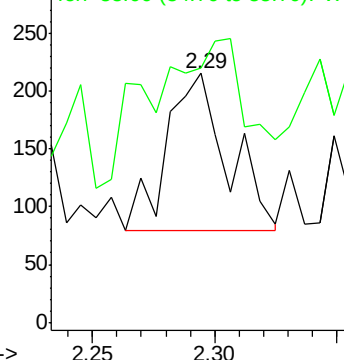
56 100

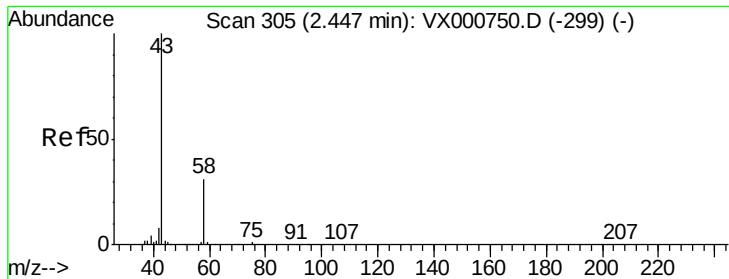
55 58.6 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 8.06 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampleId :

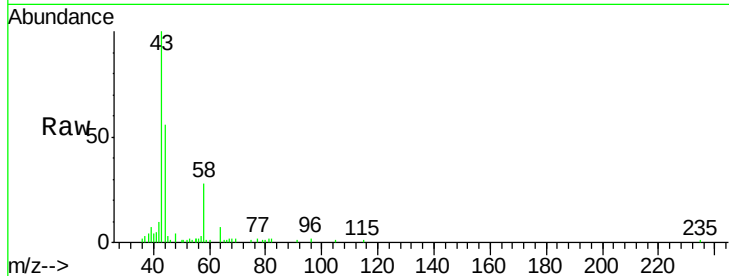
S1

Tgt Ion: 43 Resp: 8928

Ion Ratio Lower Upper

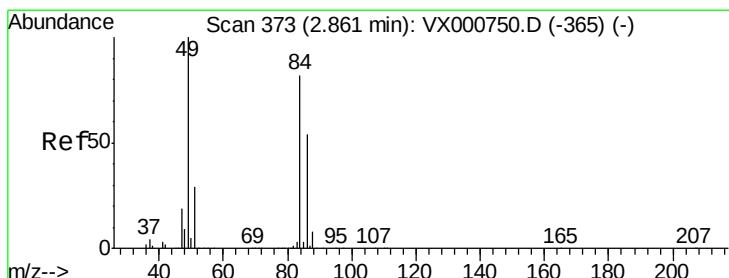
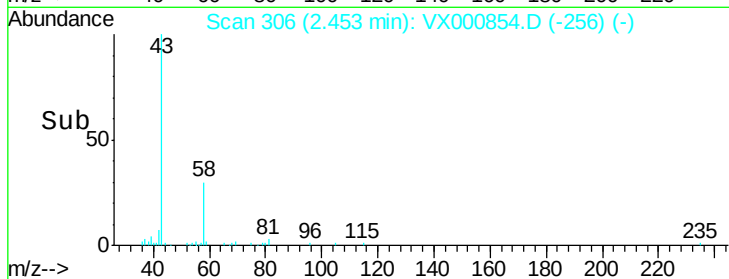
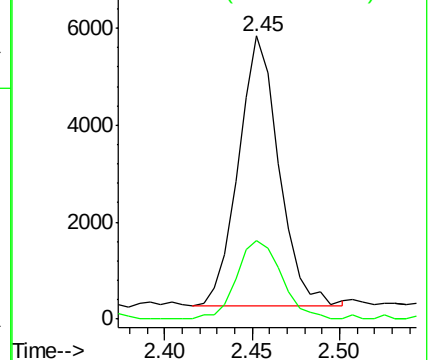
43 100

58 29.4 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 4.99 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Tgt Ion: 84 Resp: 12858

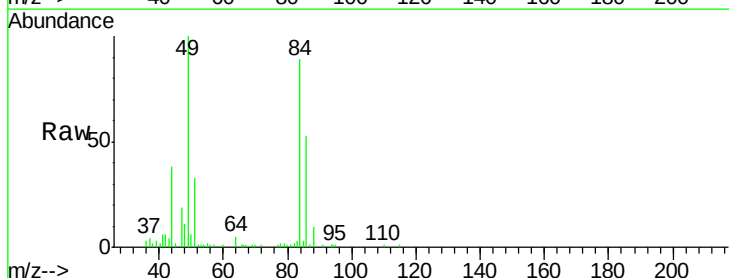
Ion Ratio Lower Upper

84 100

49 112.5 98.1 147.1

51 36.6 28.9 43.3

86 60.0 52.7 79.1

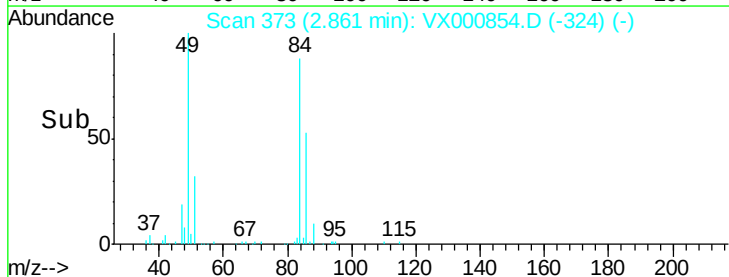
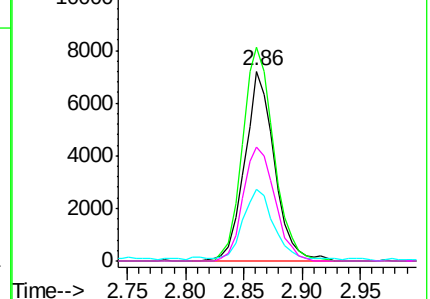


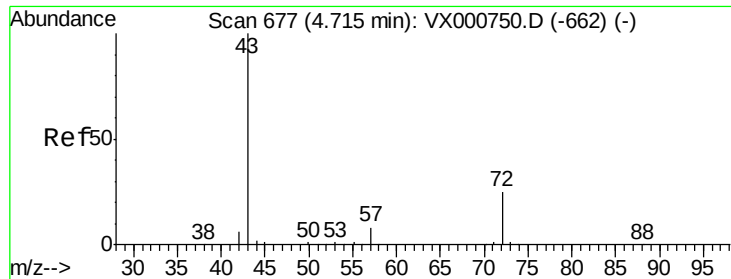
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.91 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampled :

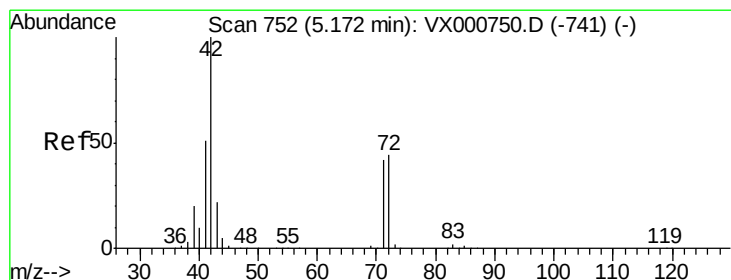
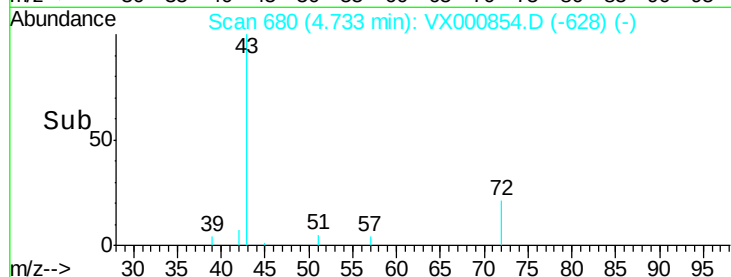
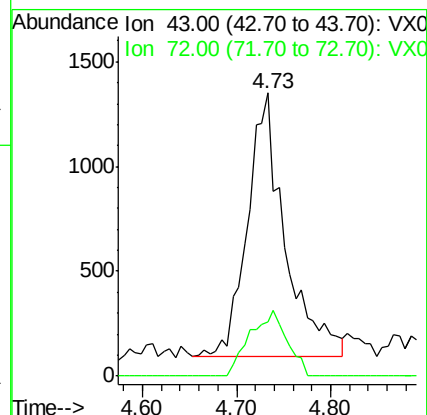
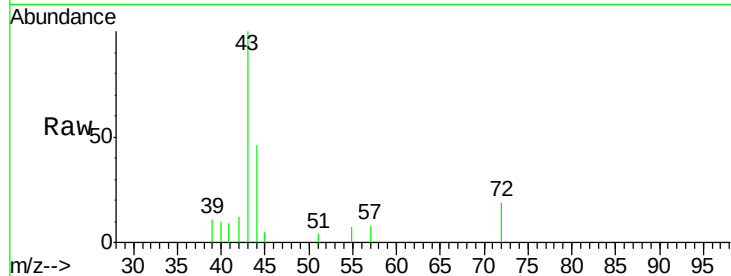
S1

Tgt Ion: 43 Resp: 3501

Ion Ratio Lower Upper

43 100

72 20.7 20.3 30.5



#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

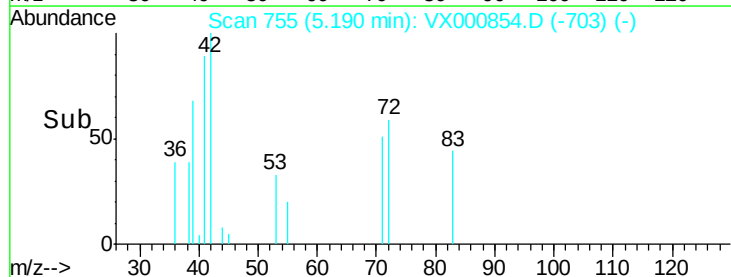
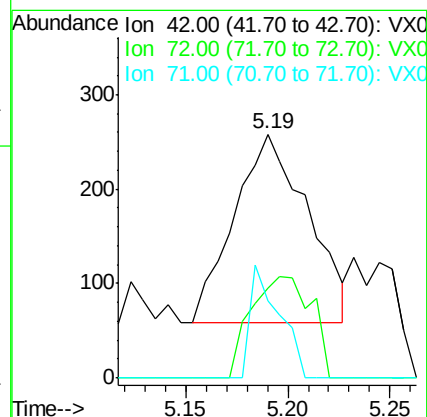
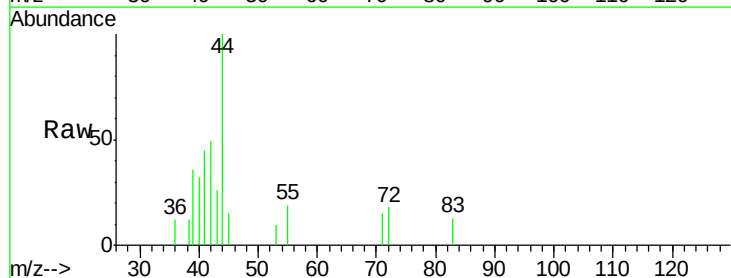
Tgt Ion: 42 Resp: 502

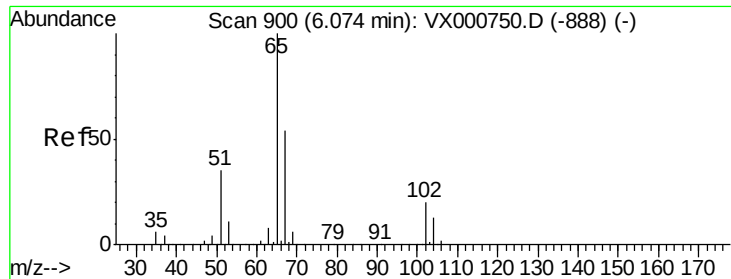
Ion Ratio Lower Upper

42 100

72 44.0 35.1 52.7

71 23.3 32.8 49.2#

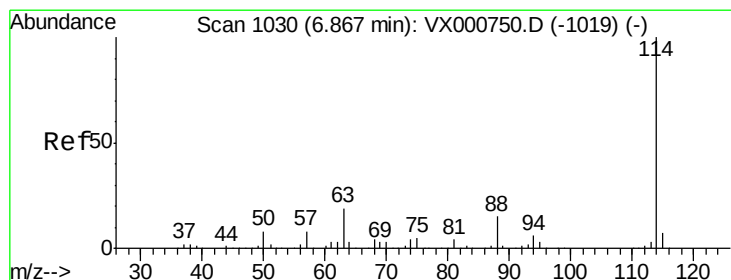
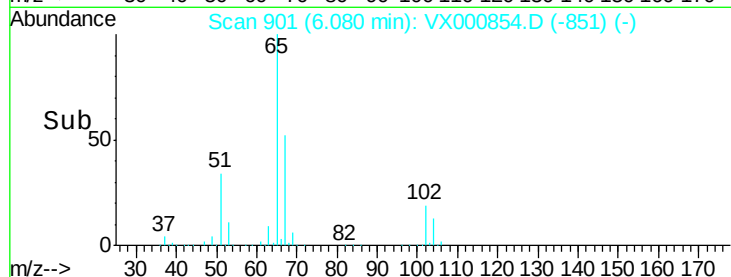
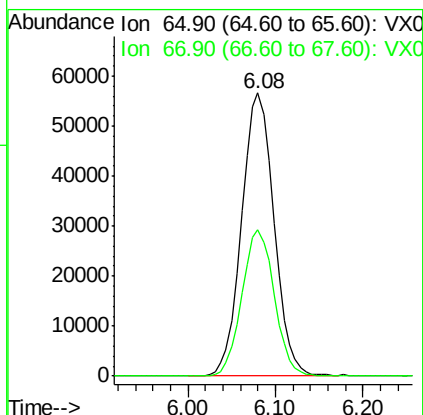
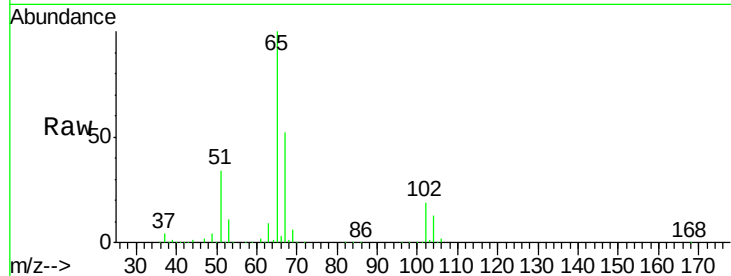




#33
 1,2-Dichloroethane-d4
 Concen: 45.58 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

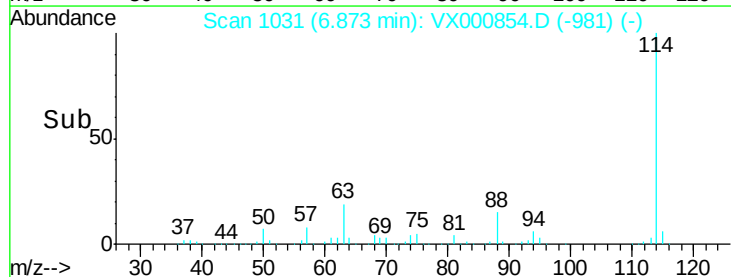
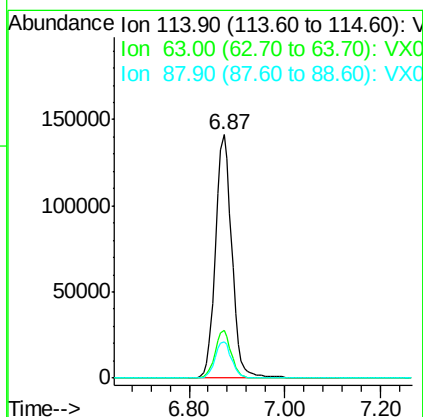
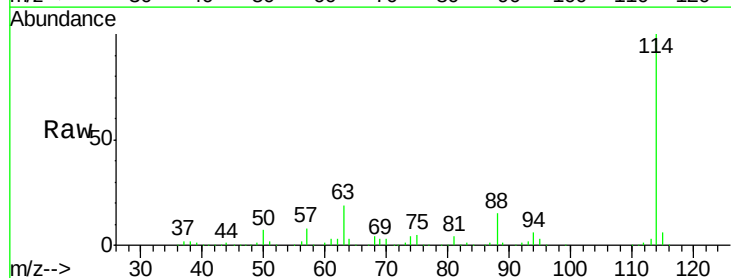
Instrument :
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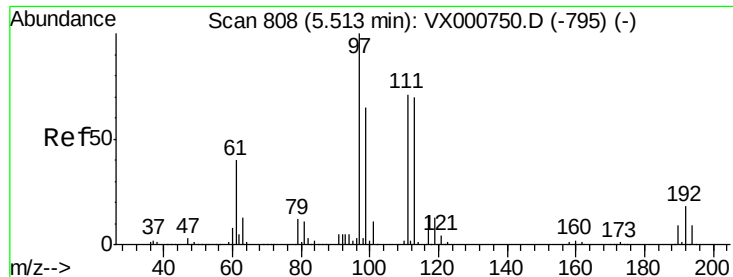
Tgt Ion: 65 Resp: 146389
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

Tgt Ion: 114 Resp: 336052
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.4
 88 14.8 0.0 31.0

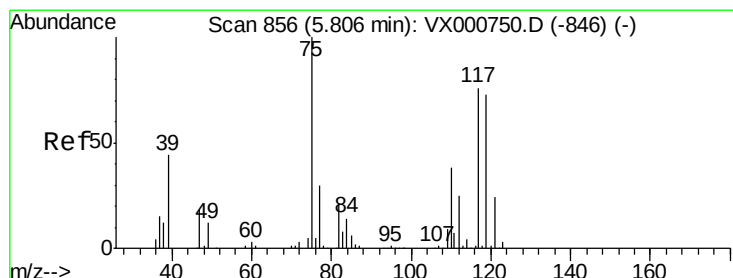
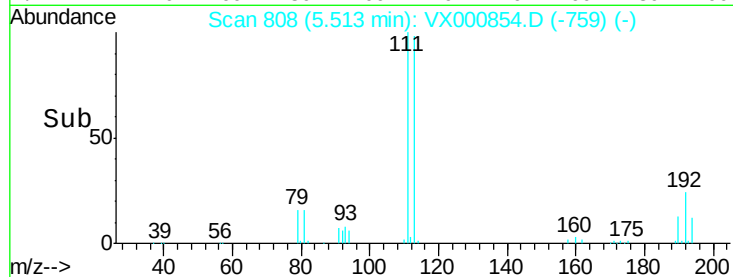
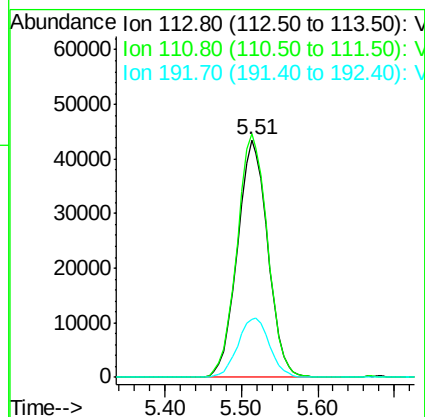
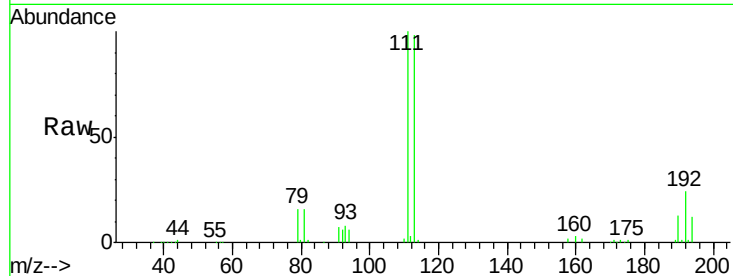




#35
 Dibromofluoromethane
 Concen: 46.20 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

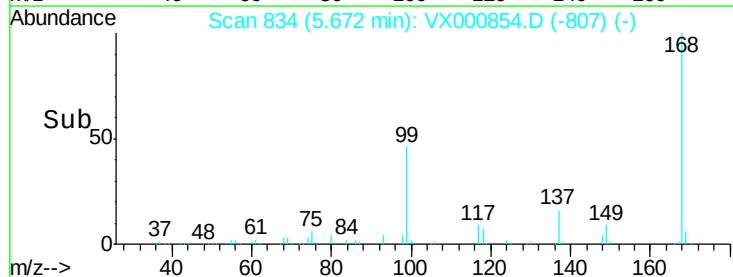
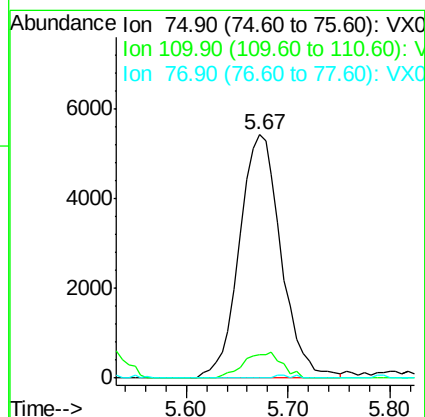
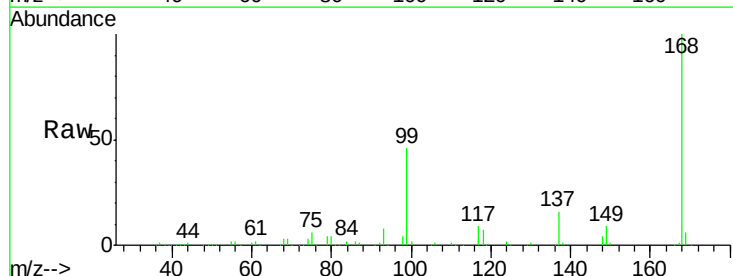
Instrument :
 MSVOA_X
 ClientSampled :
 S1

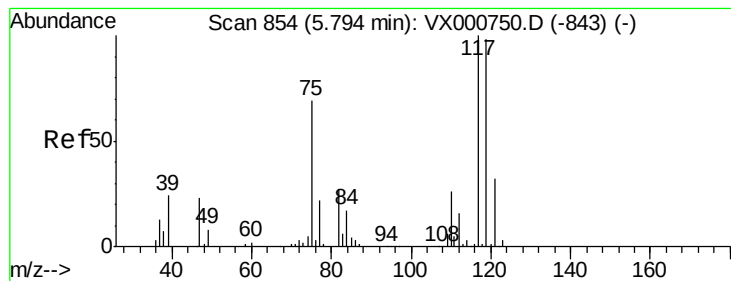
Tgt Ion:113 Resp: 119623
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.5 122.3
 192 25.9 20.4 30.6



#36
 1,1-Dichloropropene
 Concen: 4.15 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

Tgt Ion: 75 Resp: 15362
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.2 57.6#
 77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 5.30 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampled :

S1

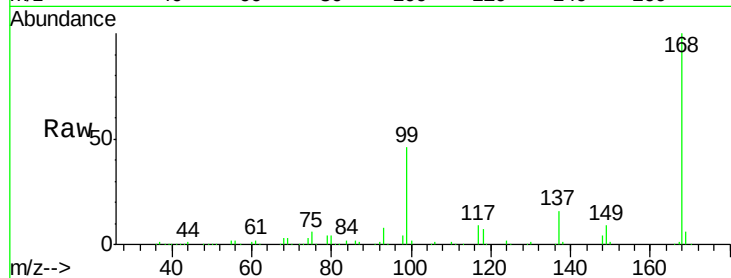
Tgt Ion:117 Resp: 21940

Ion Ratio Lower Upper

117 100

119 4.7 78.4 117.6#

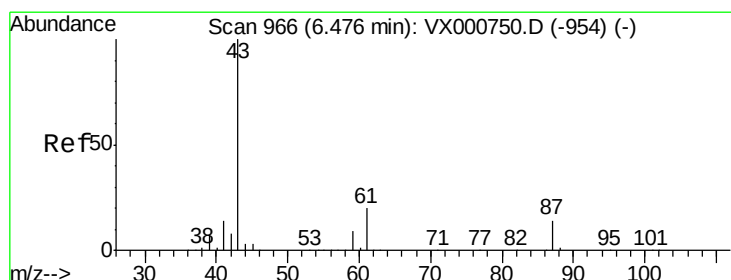
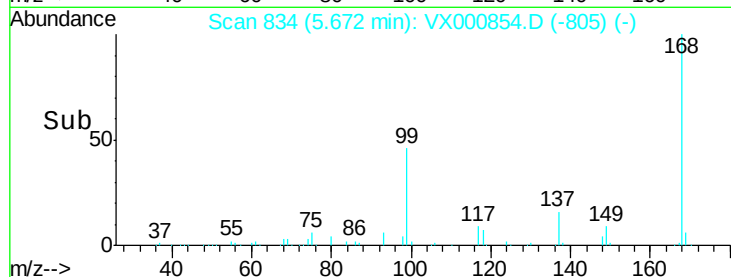
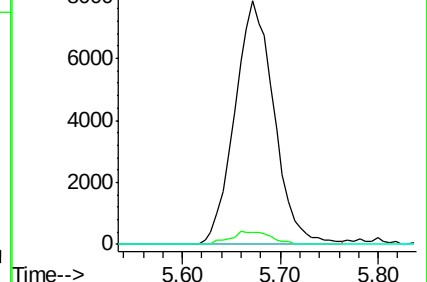
121 0.0 25.4 38.0#



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: 0.47 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

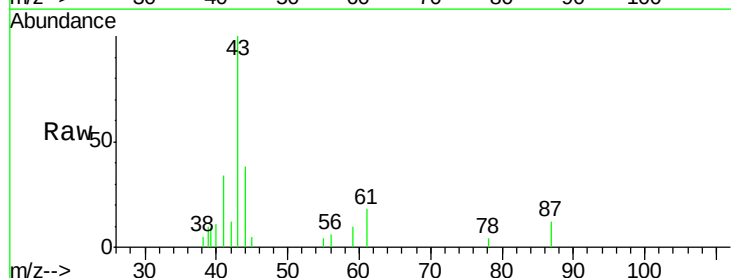
Tgt Ion: 43 Resp: 2904

Ion Ratio Lower Upper

43 100

61 18.8 15.6 23.4

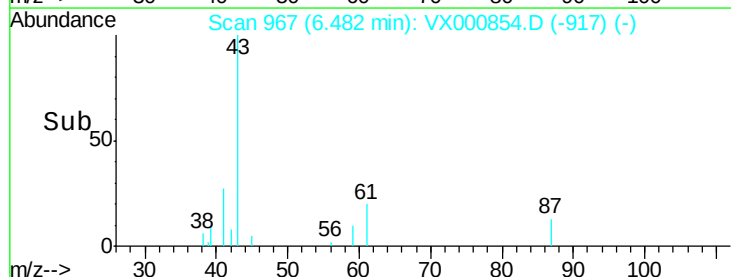
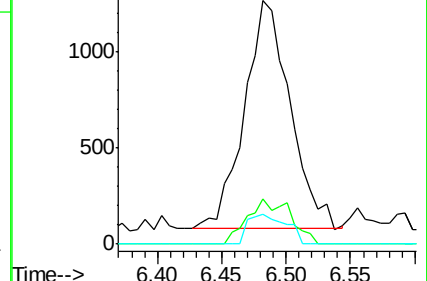
87 11.0 10.7 16.1

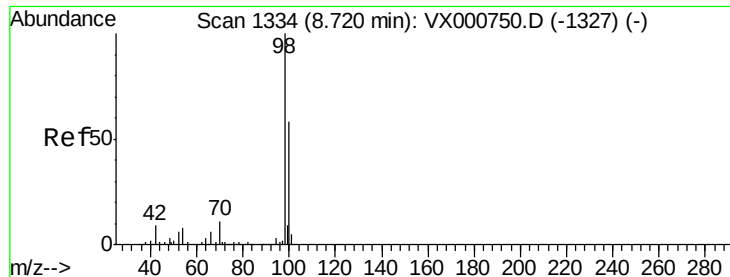


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

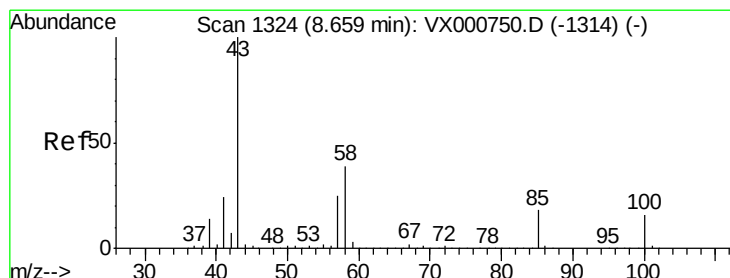
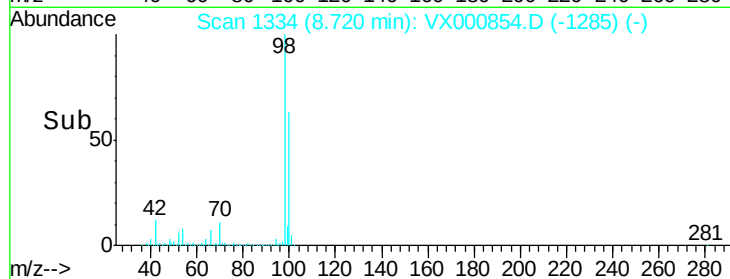
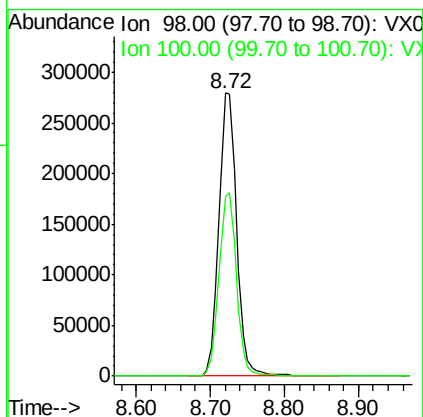
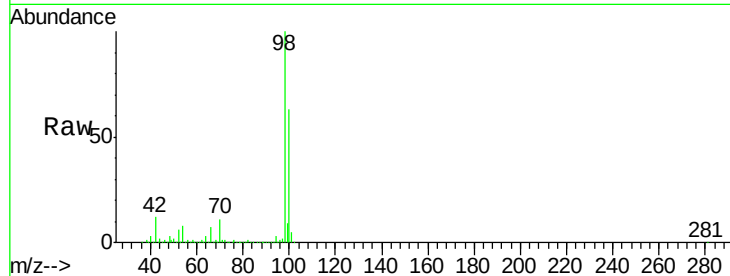




#50
Toluene-d8
Concen: 47.77 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000854.D
Acq: 13 Apr 2018 17:16

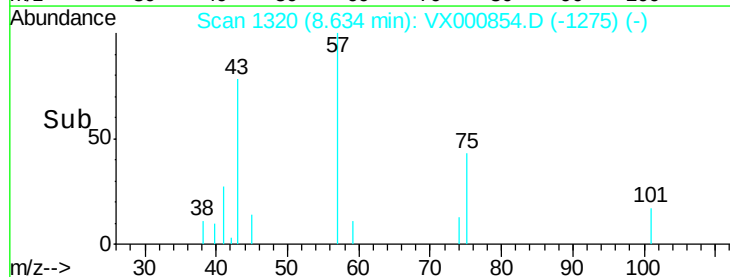
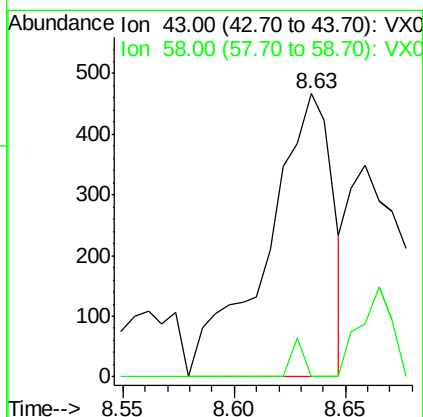
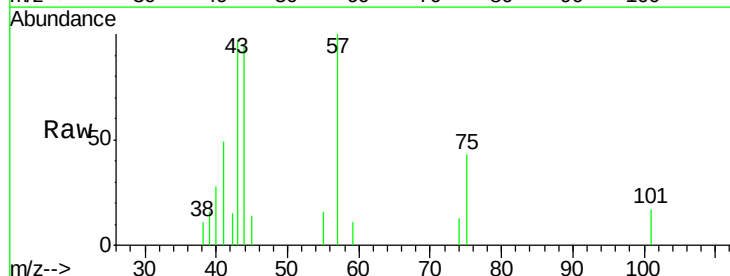
Instrument :
MSVOA_X
ClientSampled :
S1

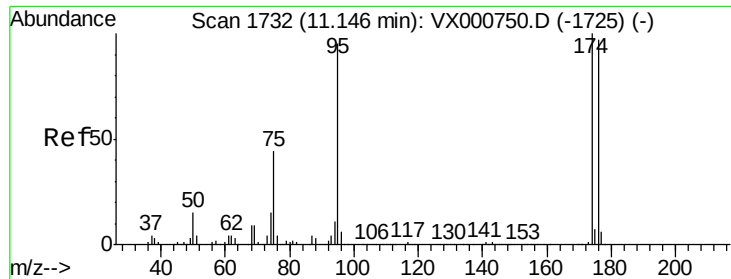
Tgt Ion: 98 Resp: 460505
Ion Ratio Lower Upper
98 100
100 64.4 52.6 79.0



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 8.63 min Scan# 1320
Delta R.T. -0.02 min
Lab File: VX000854.D
Acq: 13 Apr 2018 17:16

Tgt Ion: 43 Resp: 960
Ion Ratio Lower Upper
43 100
58 0.0 30.3 45.5#





#62

4-Bromofluorobenzene

Concen: 44.62 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

Instrument :

MSVOA_X

ClientSampleId :

S1

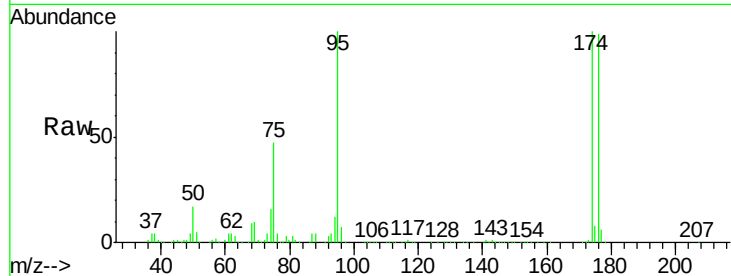
Tgt Ion: 95 Resp: 177957

Ion Ratio Lower Upper

95 100

174 97.5 0.0 198.4

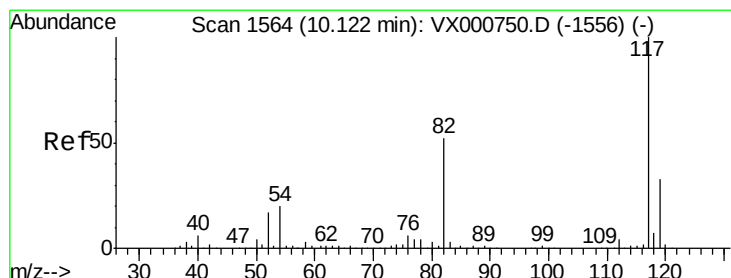
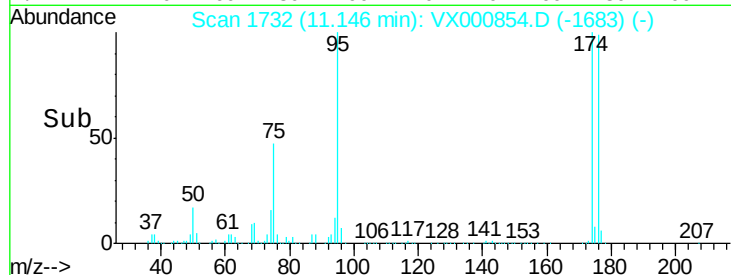
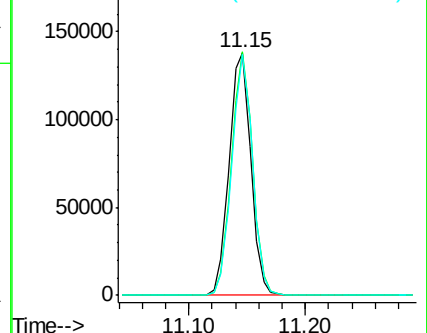
176 95.2 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000854.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000854.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000854.D (-1725) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000854.D

Acq: 13 Apr 2018 17:16

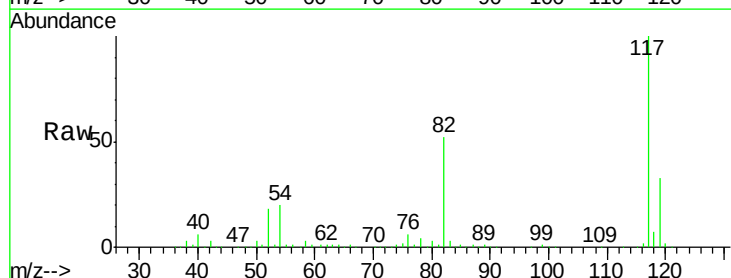
Tgt Ion: 117 Resp: 303468

Ion Ratio Lower Upper

117 100

82 52.3 41.9 62.9

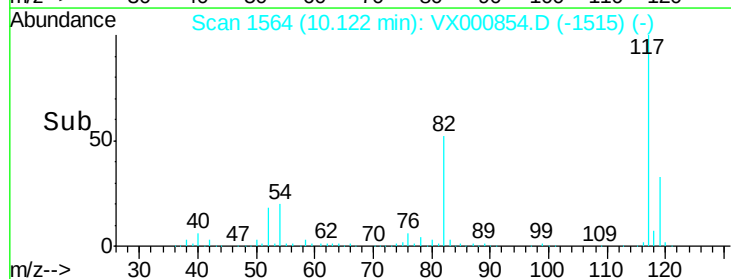
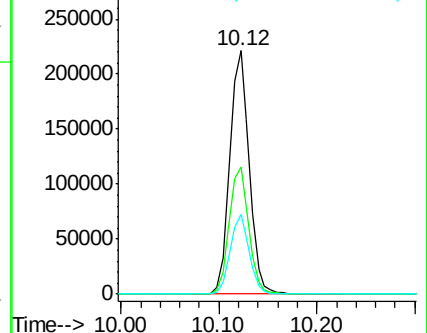
119 32.8 26.0 39.0

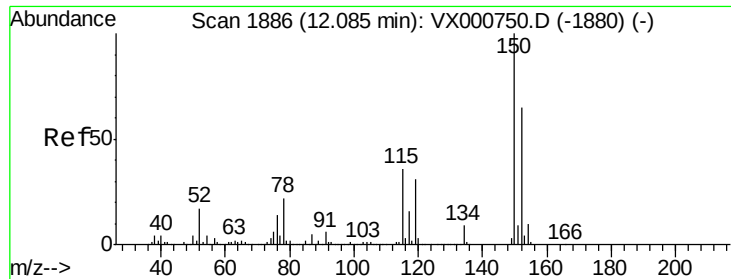


Abundance Ion 116.90 (116.60 to 117.60): VX000854.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX000854.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX000854.D (-1556) (-)

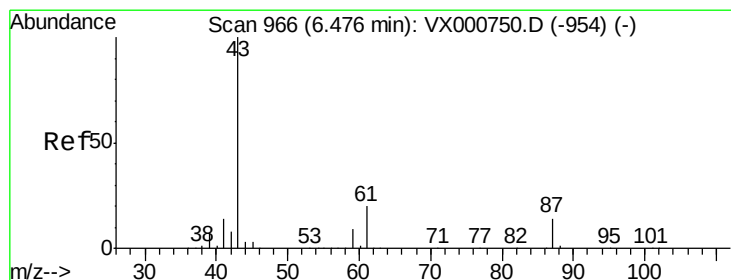
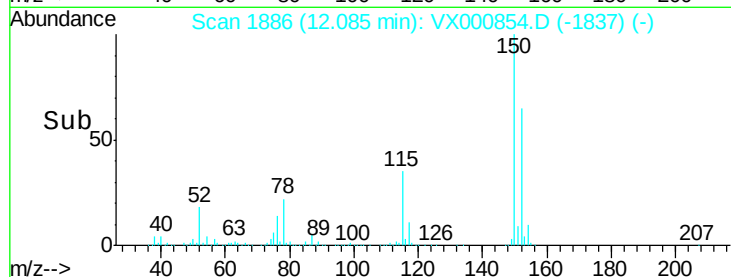
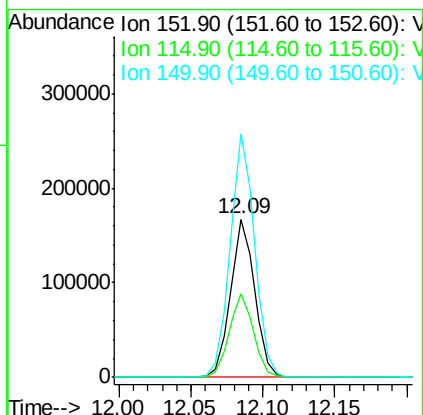
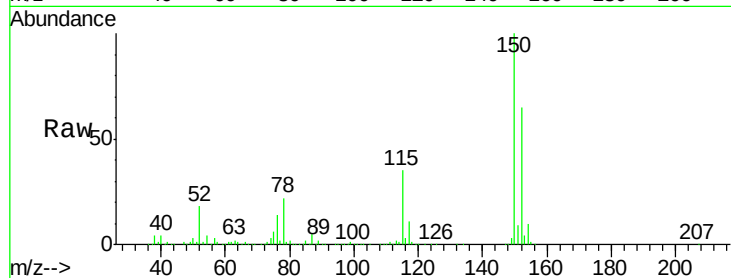




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.09 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

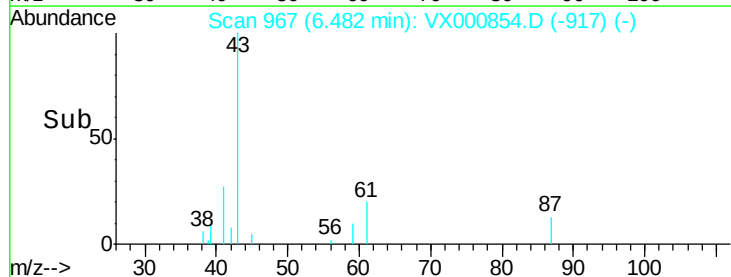
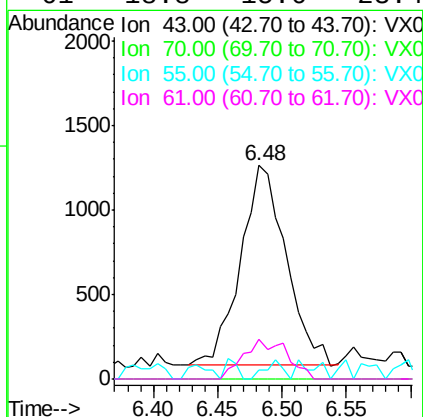
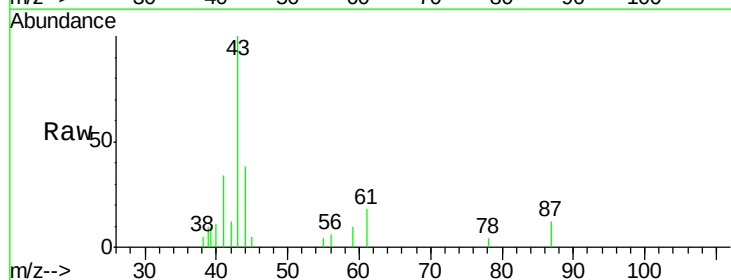
Instrument :
 MSVOA_X
 ClientSampleId :
 S1

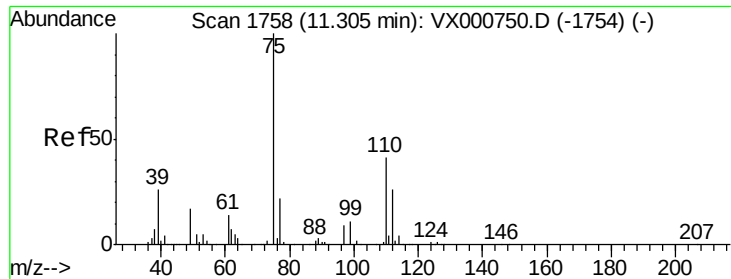
Tgt Ion:152 Resp: 197838
 Ion Ratio Lower Upper
 152 100
 115 53.2 37.9 113.7
 150 155.2 0.0 348.0



#74
 N-ethyl acetate
 Concen: 0.51 ug/l
 RT: 6.48 min Scan# 967
 Delta R.T. 0.01 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

Tgt Ion: 43 Resp: 2904
 Ion Ratio Lower Upper
 43 100
 70 0.0 0.0 0.0
 55 3.6 0.0 0.0#
 61 18.8 15.6 23.4

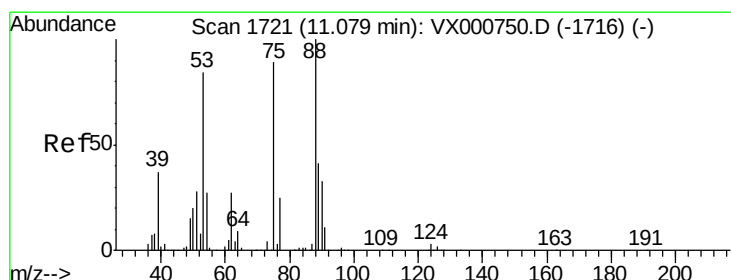
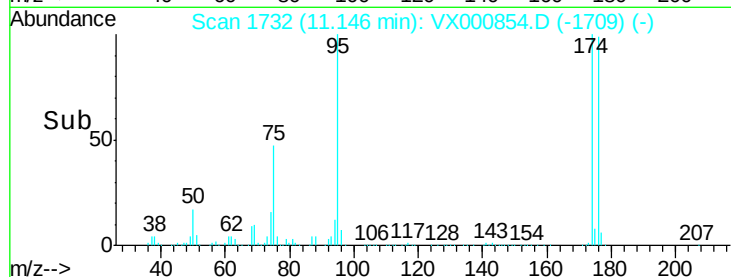
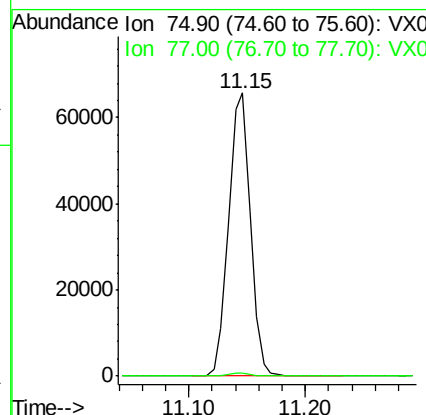
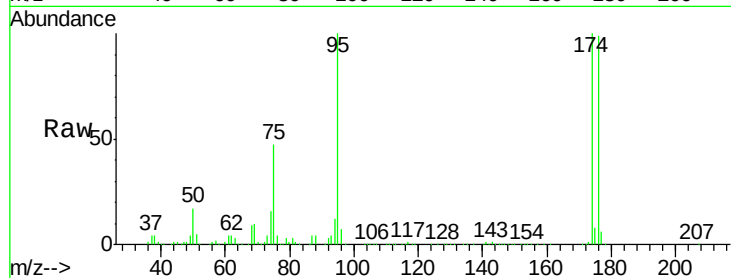




#76
 1,2,3-Trichloropropane
 Concen: 24.88 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

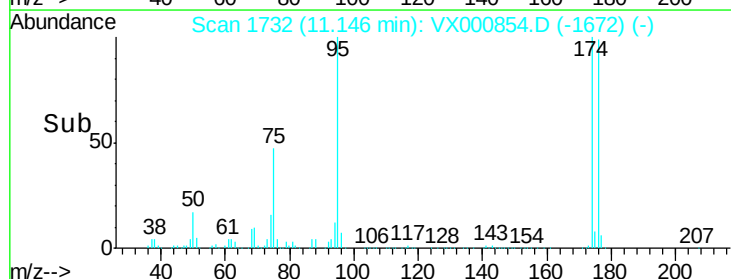
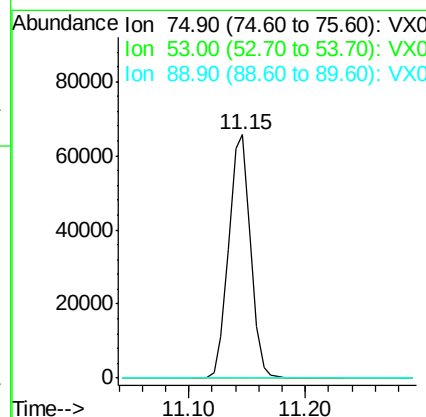
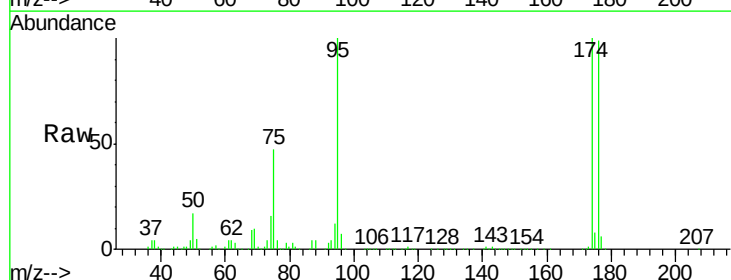
Instrument :
 MSVOA_X
 ClientSampled :
 S1

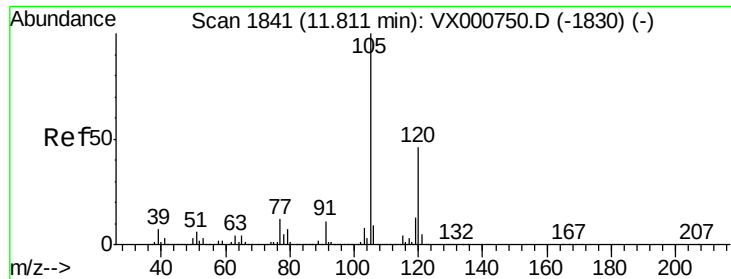
Tgt Ion: 75 Resp: 84897
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.45 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.07 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

Tgt Ion: 75 Resp: 84897
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 40.9 61.3#

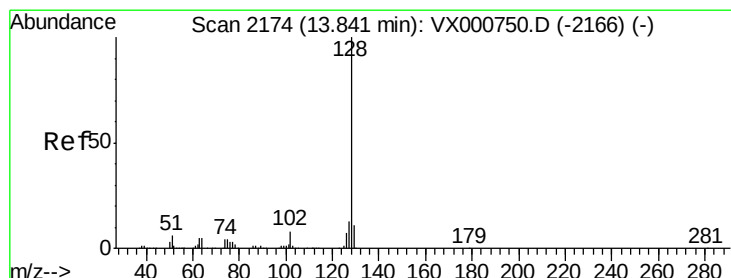
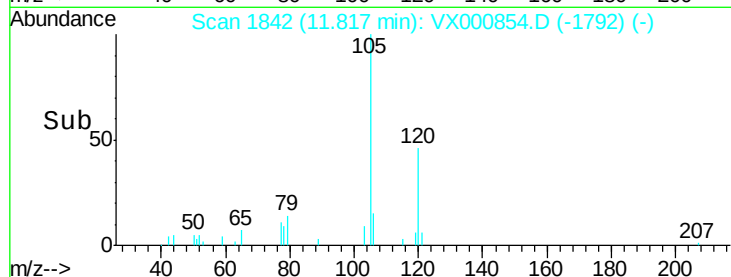
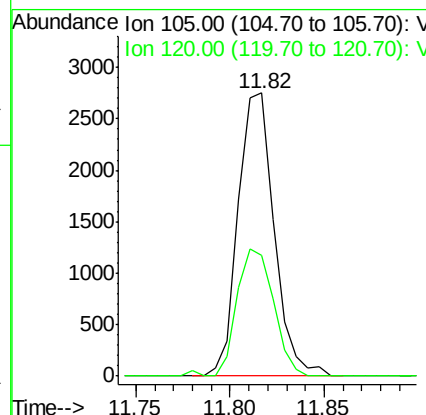
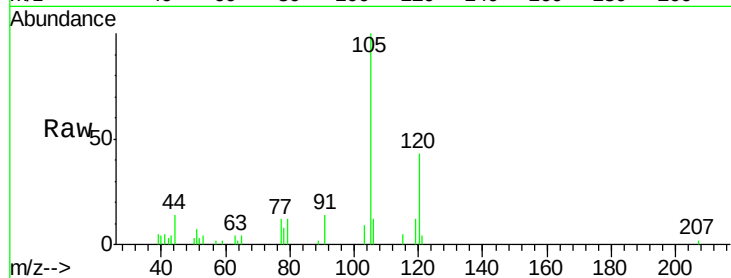




#84
 1,2,4-Trimethylbenzene
 Concen: 0.33 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. 0.01 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

Instrument :
 MSVOA_X
 ClientSampleId :
 S1

Tgt Ion:105 Resp: 3660
 Ion Ratio Lower Upper
 105 100
 120 45.9 23.1 69.3



#95
 Naphthalene
 Concen: 7.09 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VX000854.D
 Acq: 13 Apr 2018 17:16

Tgt Ion:128 Resp: 102130
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.4 15.6
 129 11.2 8.7 13.1

