

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060618\
 Data File : VX002347.D
 Acq On : 06 Jun 2018 12:49
 Operator : JC/MD
 Sample : J3270-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 07 03:21:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	244413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	359707	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	332053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	189167	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	173720	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
35) Dibromofluoromethane	5.51	113	129222	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
50) Toluene-d8	8.72	98	517399	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
62) 4-Bromofluorobenzene	11.14	95	182716	43.70	ug/l	0.00
Spiked Amount			Recovery	=	87.40%	

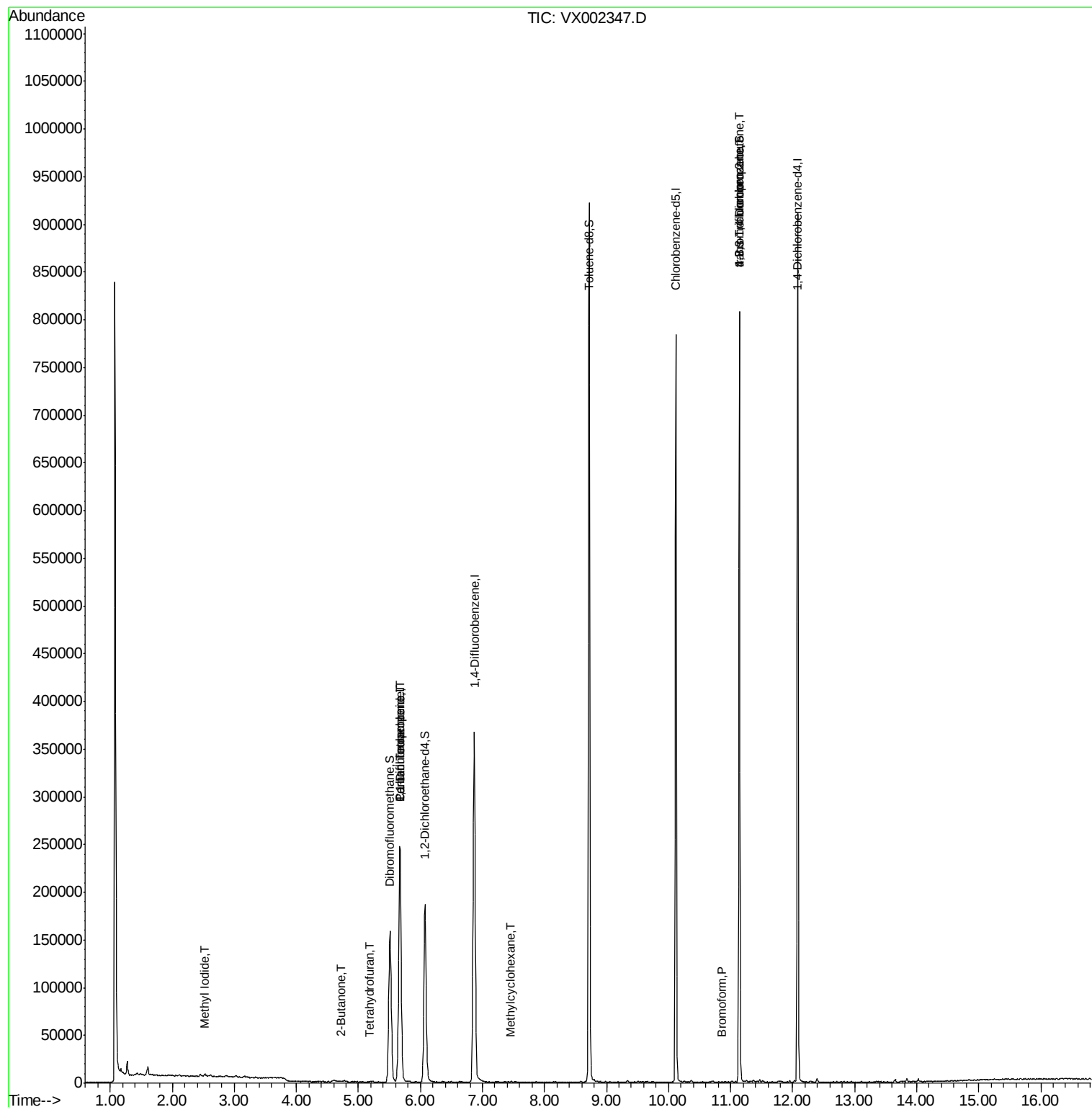
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	570	Below Cal	#	80
5) Bromomethane	1.62	94	119	Below Cal	#	3
8) Diethyl Ether	2.19	74	199	Below Cal	#	63
10) Methyl Iodide	2.52	142	2814	0.76	ug/l	95
11) Tert butyl alcohol	3.07	59	148	Below Cal	#	1
13) Acrolein	2.29	56	620	Below Cal	#	32
15) Acrylonitrile	3.15	53	751	Below Cal	#	69
16) Acetone	2.45	43	1595	Below Cal	#	93
18) Methyl Acetate	2.78	43	291	Below Cal	#	62
19) Methyl tert-butyl Ether	3.21	73	77	Below Cal	#	54
20) Methylene Chloride	2.87	84	489	Below Cal	#	96
22) Diisopropyl ether	3.89	45	175	Below Cal	#	35
25) 2-Butanone	4.72	43	549	0.23	ug/l	94
28) Bromochloromethane	5.01	49	22	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	441	0.29	ug/l	70
36) 1,1-Dichloropropene	5.67	75	16981	4.49	ug/l	49
38) Carbon Tetrachloride	5.67	117	22740	5.75	ug/l	15
39) Methylcyclohexane	7.46	83	85	0.28	ug/l	82
71) Bromoform	10.86	173	57	3.48	ug/l	28
76) 1,2,3-Trichloropropane	11.14	75	101137	24.37	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	101137	85.41	ug/l	7

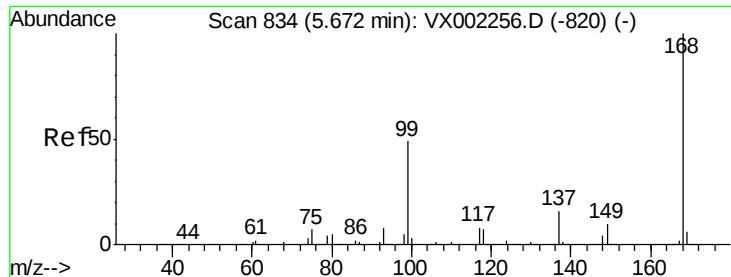
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002347.D

Acq: 06 Jun 2018 12:49

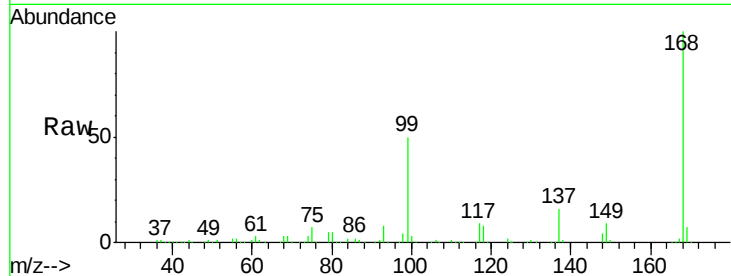
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 244413

Ion Ratio Lower Upper

168 100

99 49.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

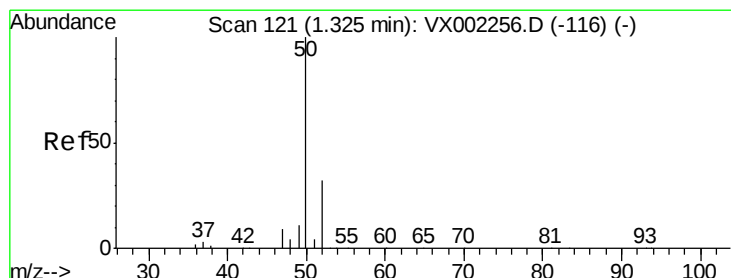
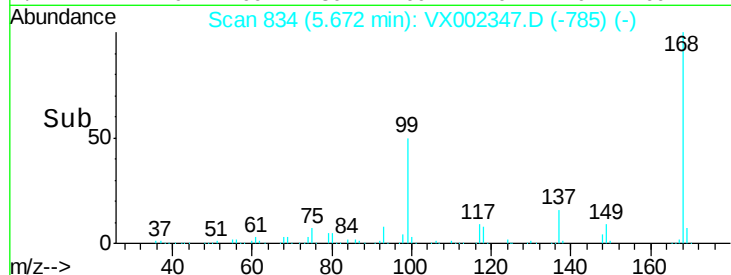
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002347.D

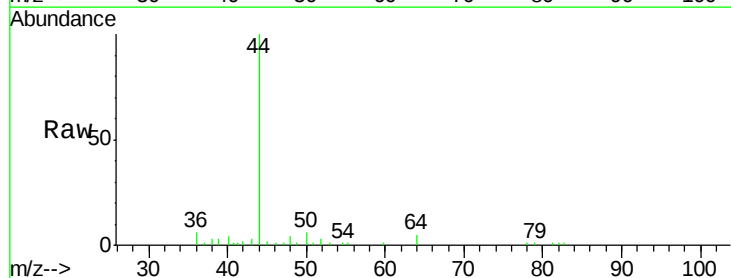
Acq: 06 Jun 2018 12:49

Tgt Ion: 50 Resp: 570

Ion Ratio Lower Upper

50 100

52 43.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

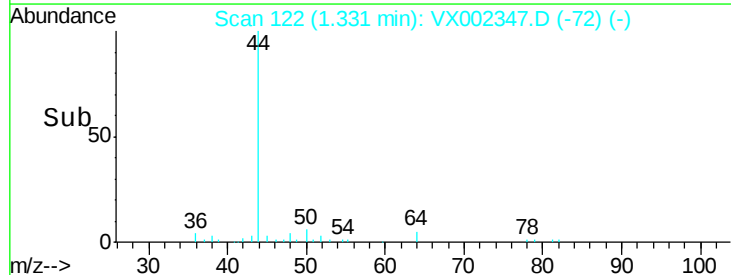
300

200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.02 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

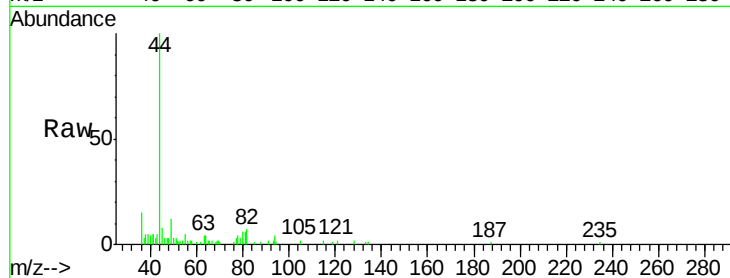
ClientSampled :

Tot Ion: 94 Resp: 119

Ion Ratio Lower Upper

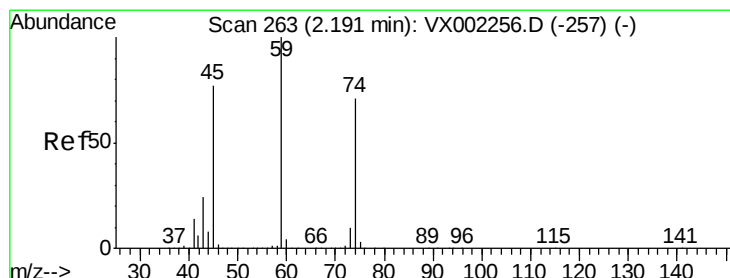
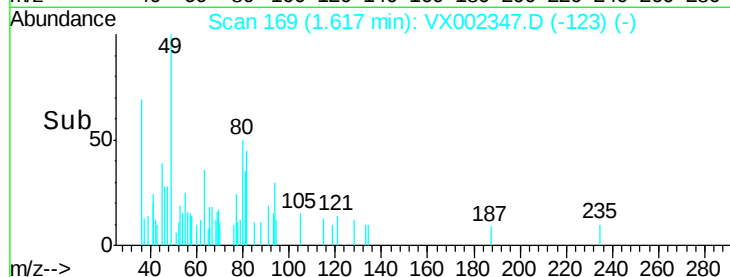
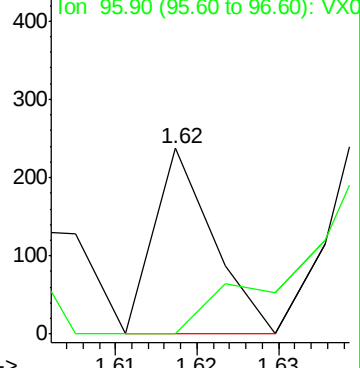
94 100

96 0.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002347.D

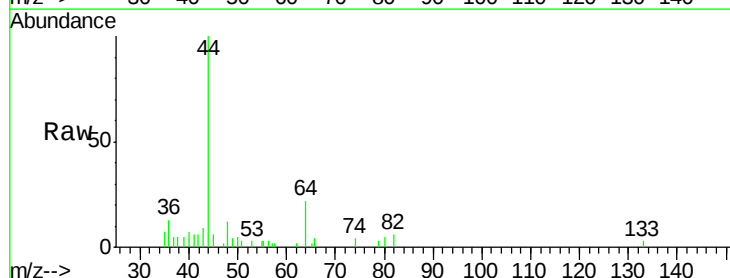
Acq: 06 Jun 2018 12:49

Tgt Ion: 74 Resp: 199

Ion Ratio Lower Upper

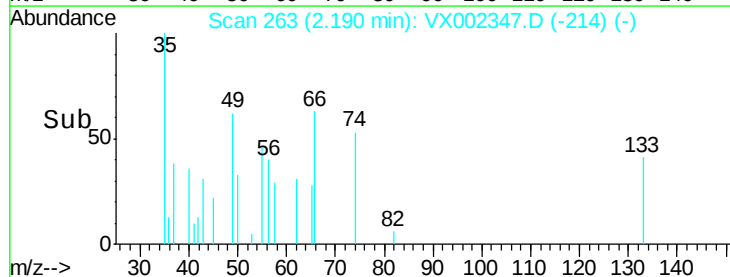
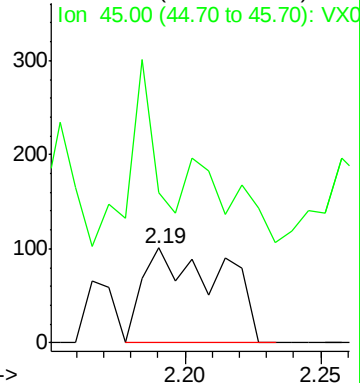
74 100

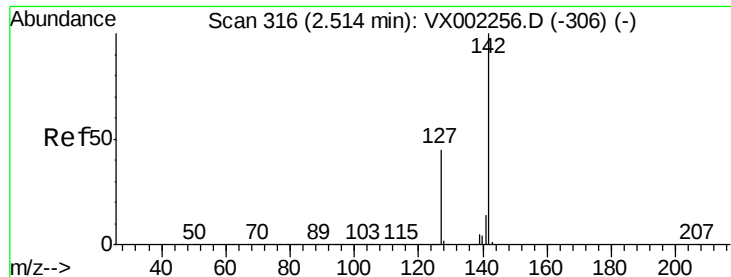
45 67.8 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

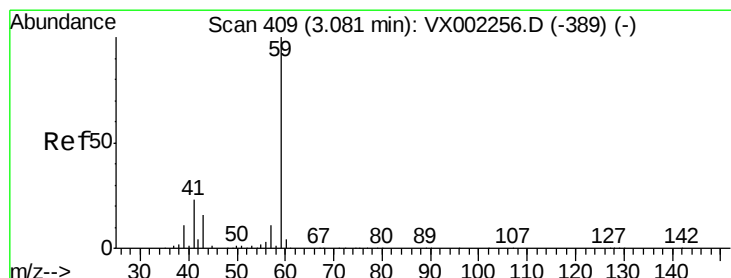
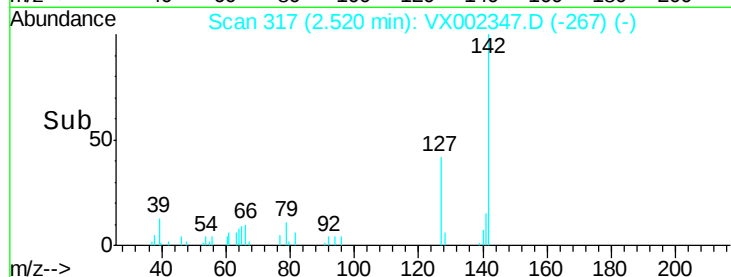
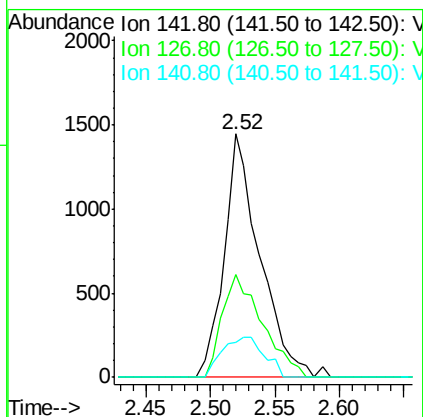
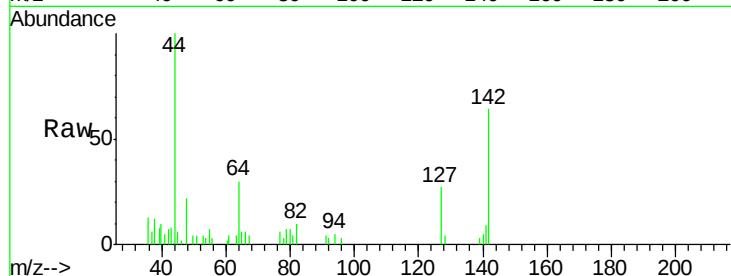




#10
Methvl Iodide
Concen: 0.76 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002347.D
Acq: 06 Jun 2018 12:49

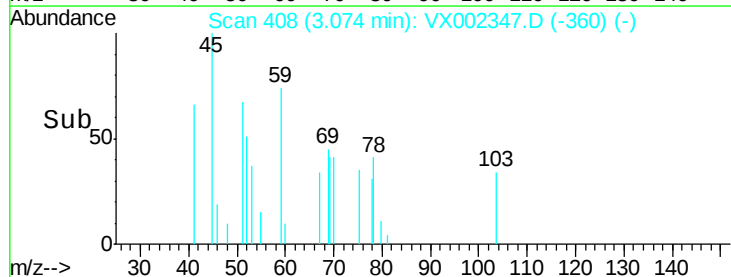
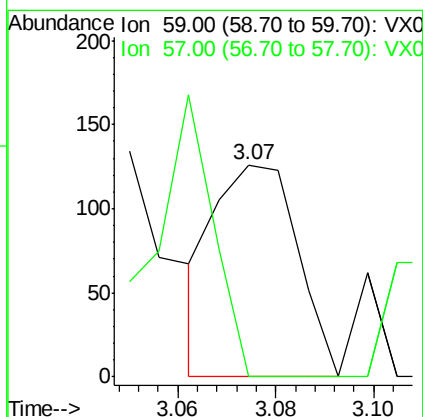
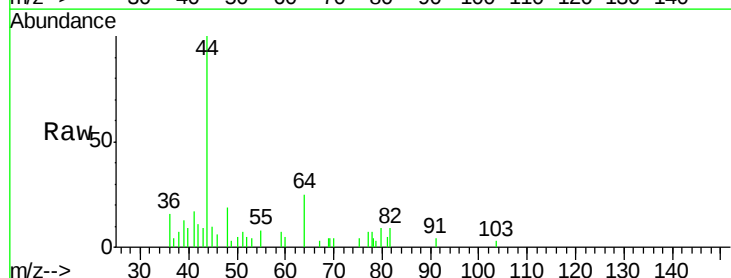
Instrument :
MSVOA_X
ClientSampled :

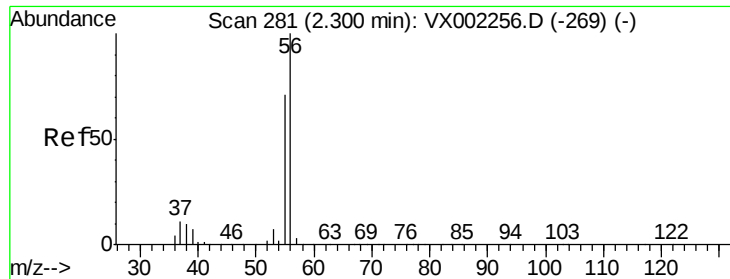
Tot Ion:142 Resp: 2814
Ion Ratio Lower Upper
142 100
127 47.1 36.6 55.0
141 19.4 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002347.D
Acq: 06 Jun 2018 12:49

Tgt Ion: 59 Resp: 148
Ion Ratio Lower Upper
59 100
57 79.1 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

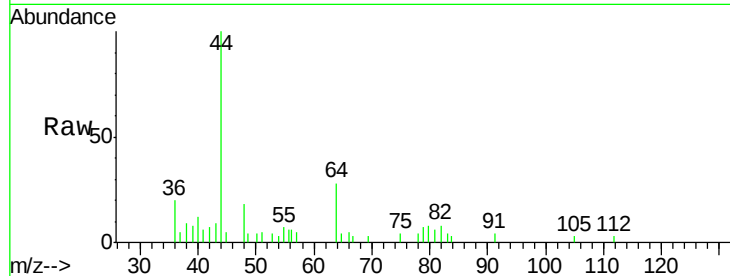
ClientSampled :

Tot Ion: 56 Resp: 620

Ion Ratio Lower Upper

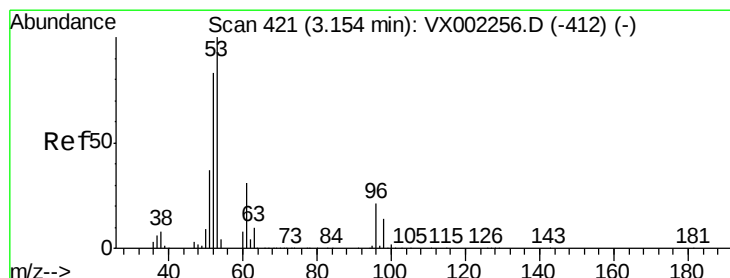
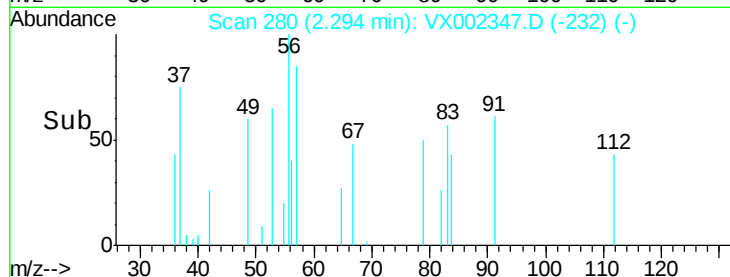
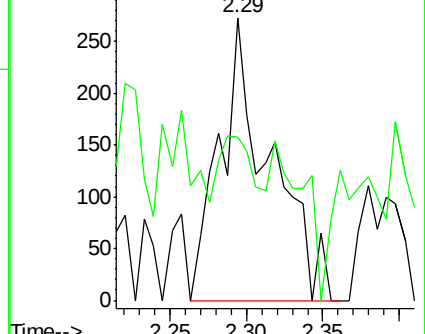
56 100

55 14.7 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

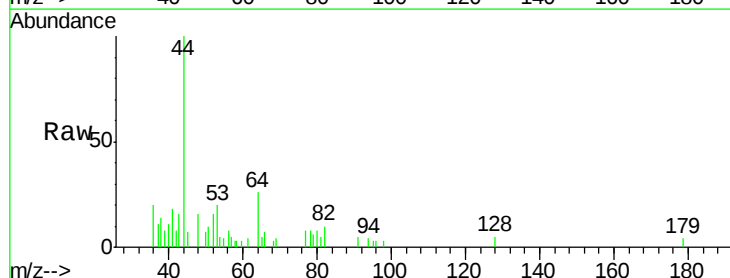
Tgt Ion: 53 Resp: 751

Ion Ratio Lower Upper

53 100

52 100.5 66.7 100.1#

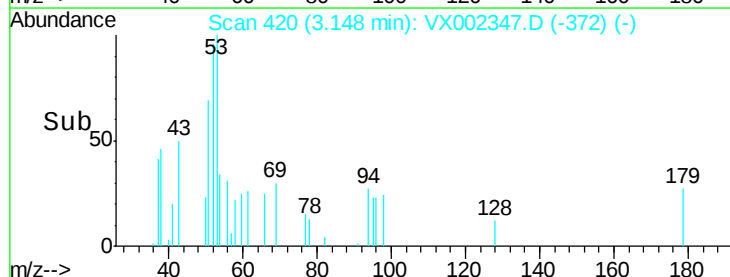
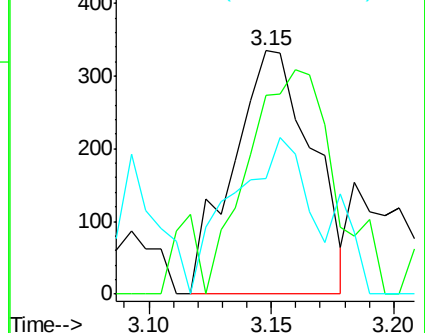
51 72.6 29.9 44.9#

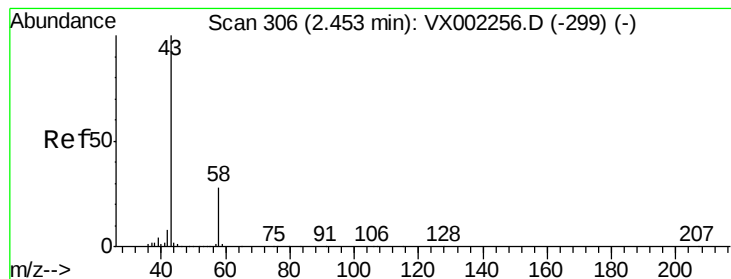


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

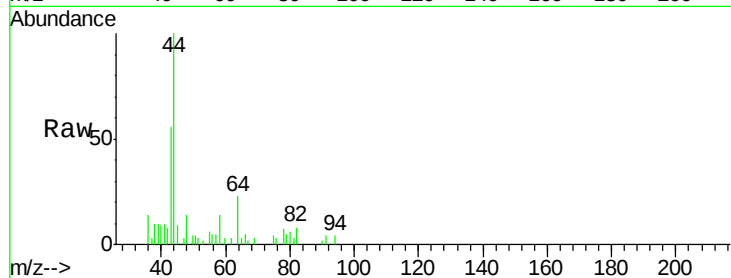
ClientSampled :

Tot Ion: 43 Resp: 1595

Ion Ratio Lower Upper

43 100

58 31.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

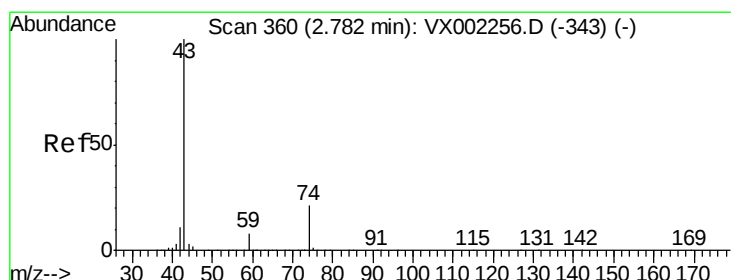
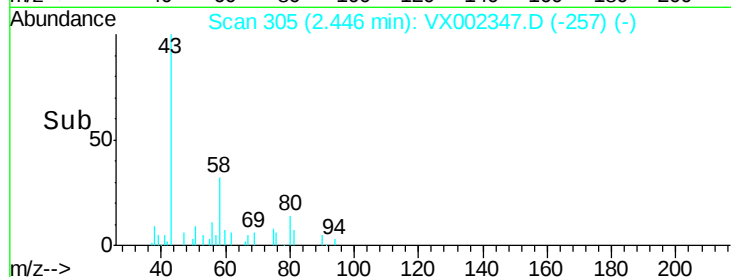
1000

500

0

2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002347.D

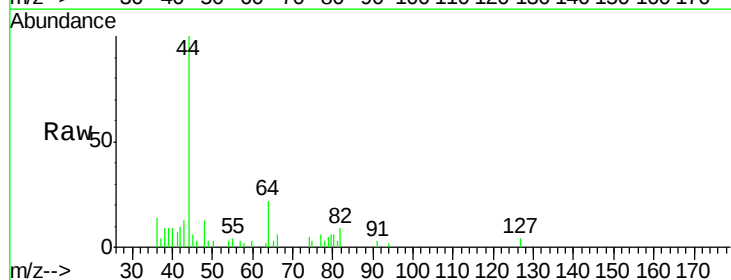
Acq: 06 Jun 2018 12:49

Tgt Ion: 43 Resp: 291

Ion Ratio Lower Upper

43 100

74 38.8 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

300

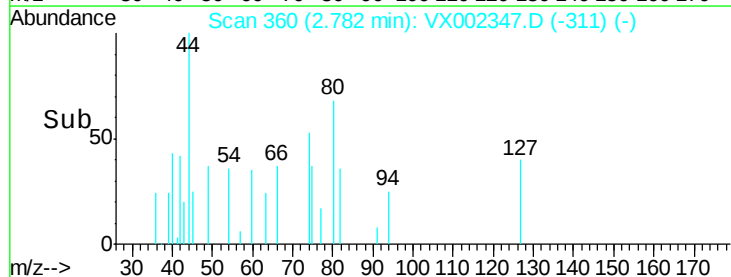
200

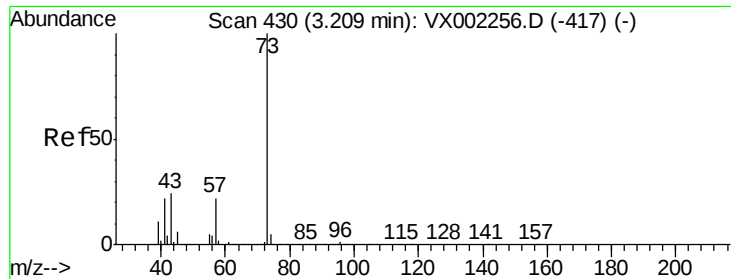
100

0

2.74 2.76 2.78 2.80

Time-->



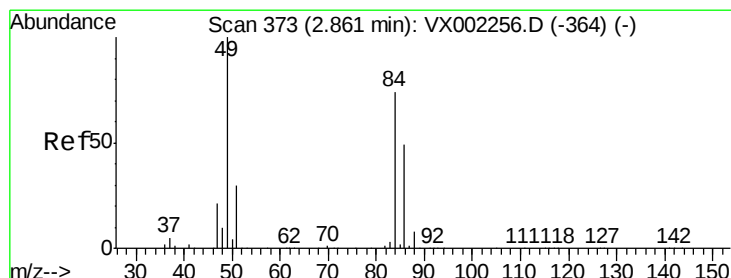
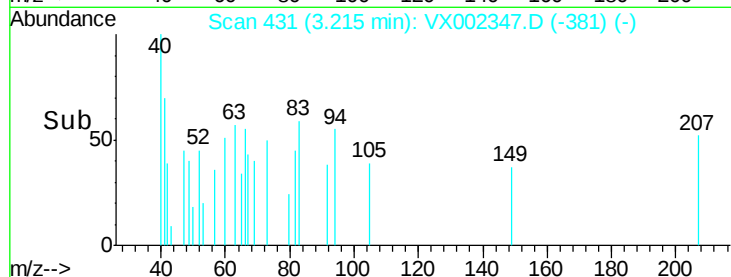
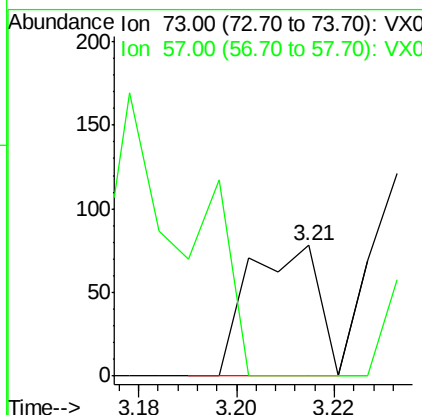
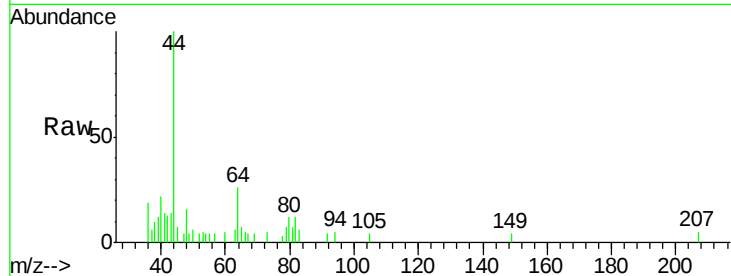


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002347.D
Acq: 06 Jun 2018 12:49

Instrument :
MSVOA_X
ClientSampled :

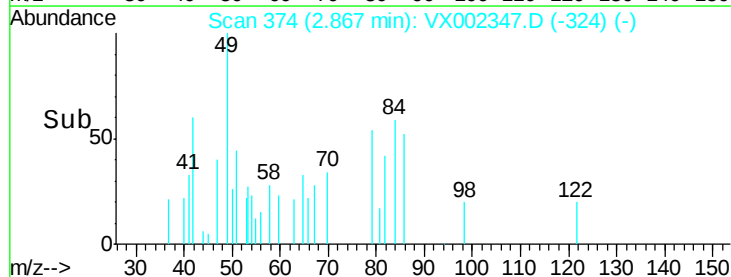
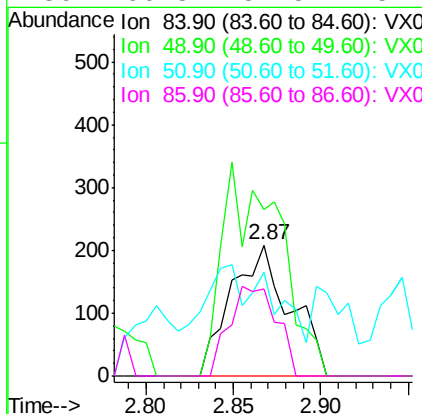
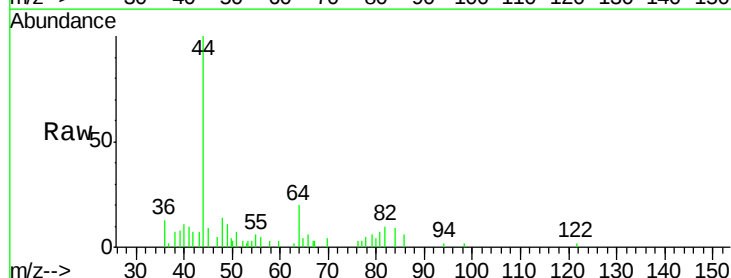
Tot Ion: 73 Resp: 77
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

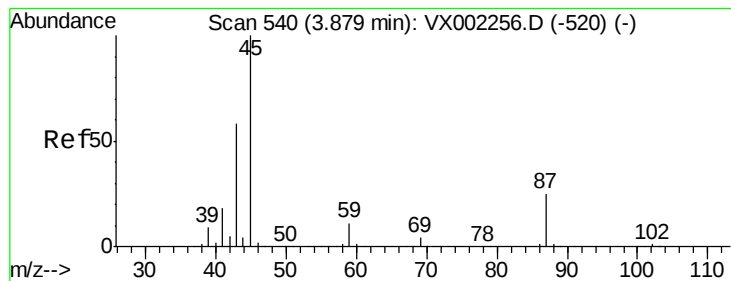


#20

Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002347.D
Acq: 06 Jun 2018 12:49

Tgt Ion: 84 Resp: 489
Ion Ratio Lower Upper
84 100
49 127.4 107.8 161.6
51 40.4 32.8 49.2
86 66.8 52.5 78.7



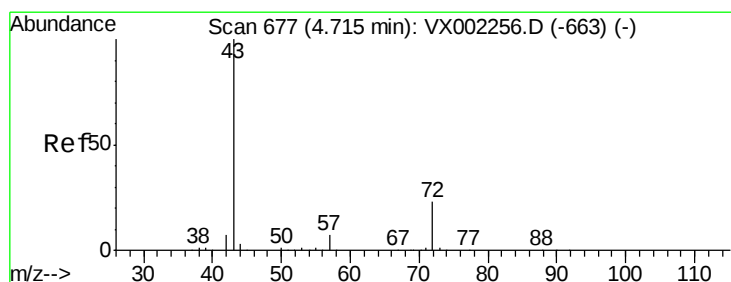
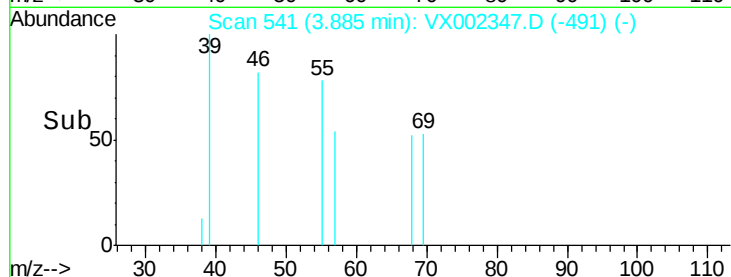
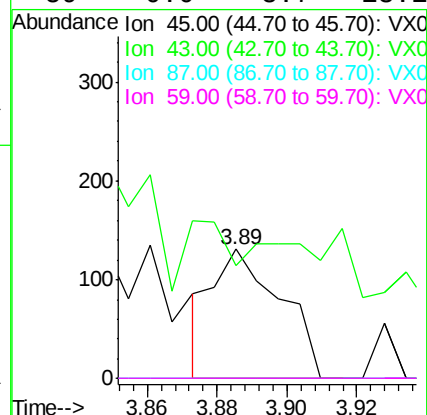
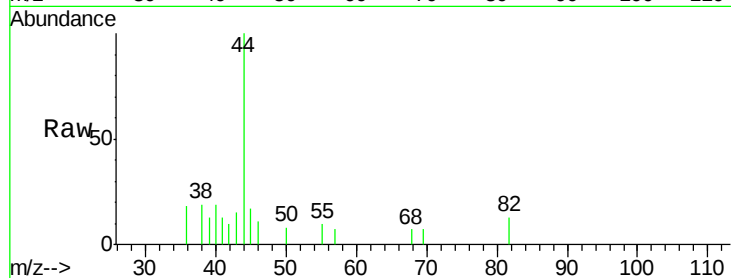


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.89 min Scan# 541
 Delta R.T. 0.01 min
 Lab File: VX002347.D
 Acq: 06 Jun 2018 12:49

Instrument :
 MSVOA_X
 ClientSampleId :

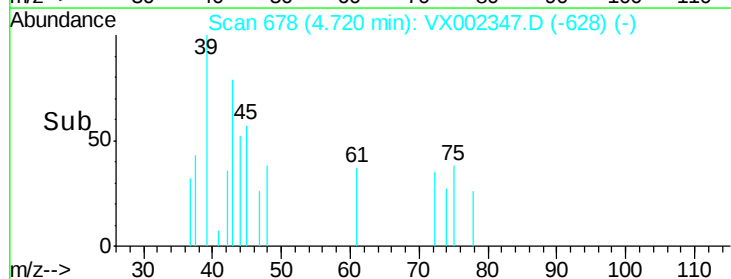
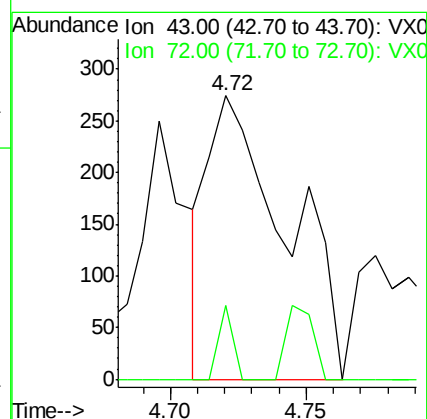
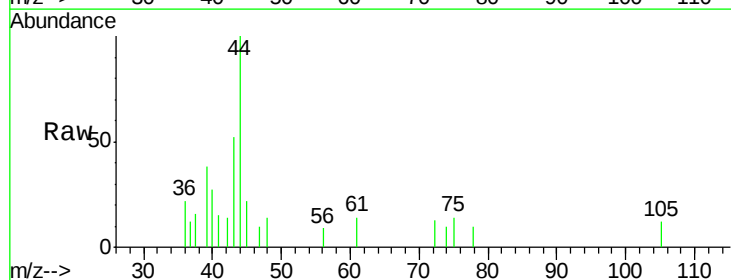
Tot Ion:	45	Resp:	175
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

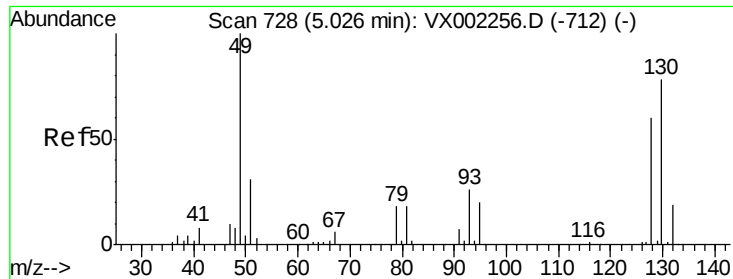


#25

2-Butanone
 Concen: 0.23 ug/l
 RT: 4.72 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VX002347.D
 Acq: 06 Jun 2018 12:49

Tgt Ion:	43	Resp:	549
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 725

Delta R.T. -0.02 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

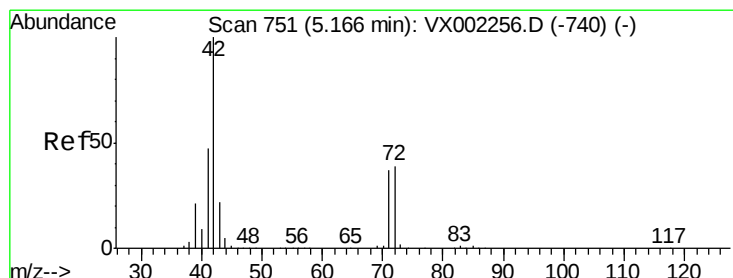
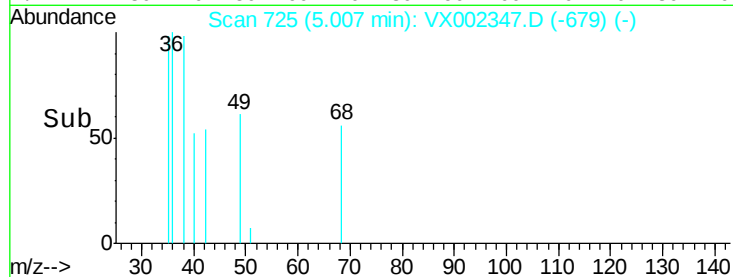
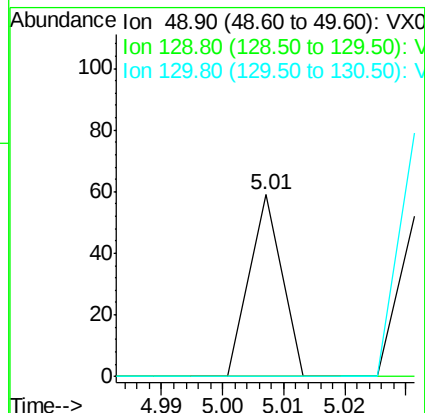
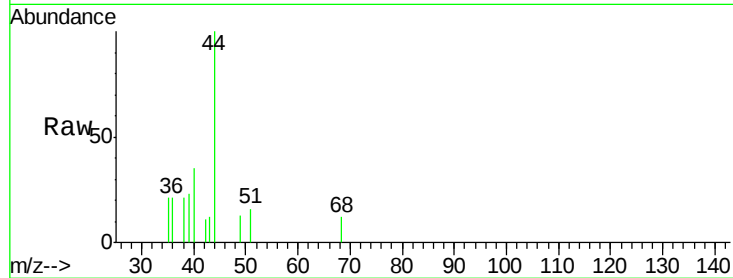
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 49 Resp: 22

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#



#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 5.18 min Scan# 753

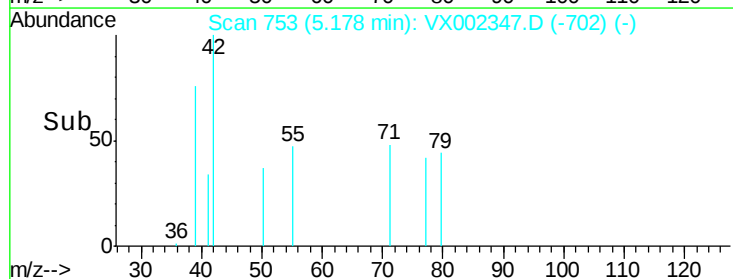
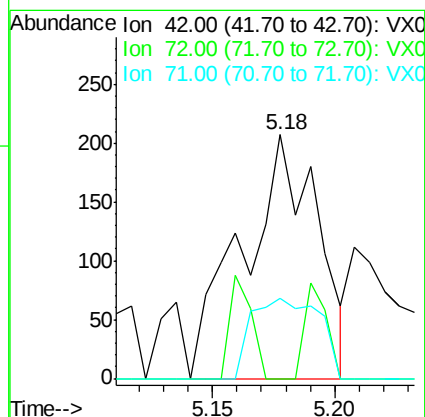
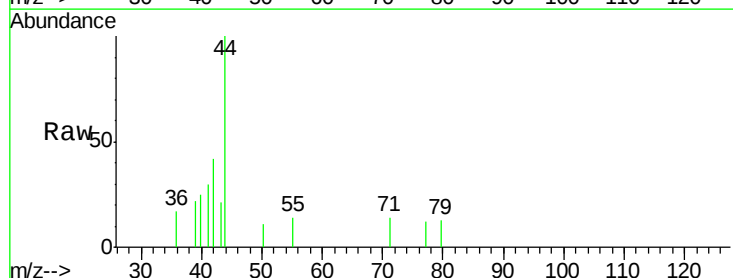
Delta R.T. 0.01 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Tgt Ion: 42 Resp: 441

Ion	Ratio	Lower	Upper
42	100		
72	11.6	32.0	48.0#
71	29.7	30.1	45.1#

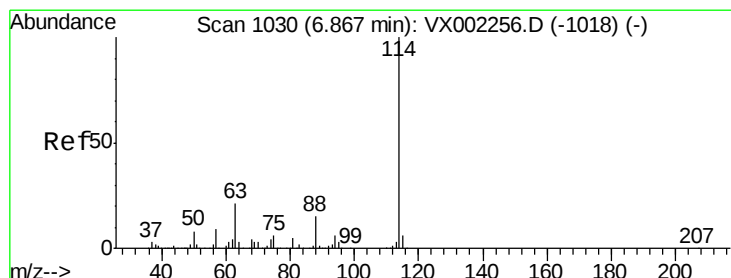
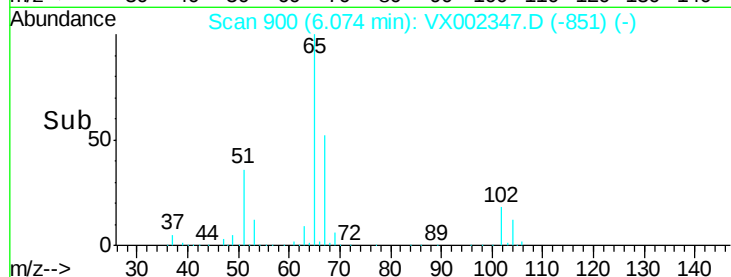
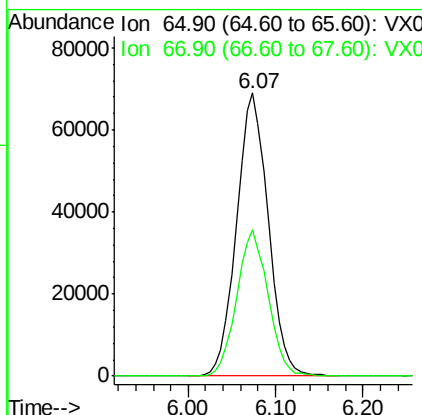
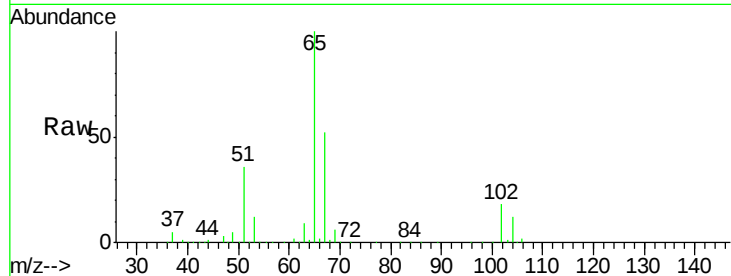




#33
 1,2-Dichloroethane-d4
 Concen: 49.68 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002347.D
 Acq: 06 Jun 2018 12:49

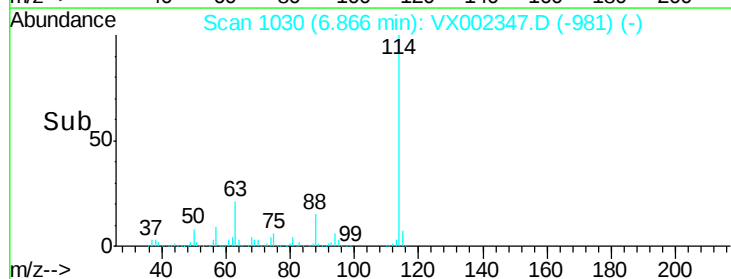
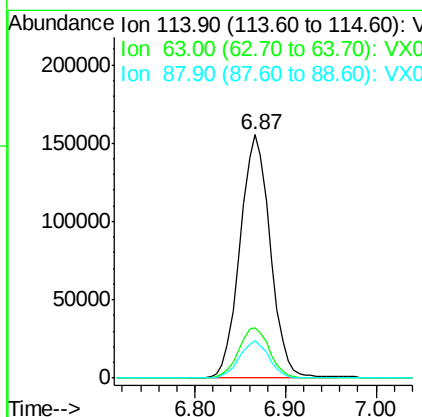
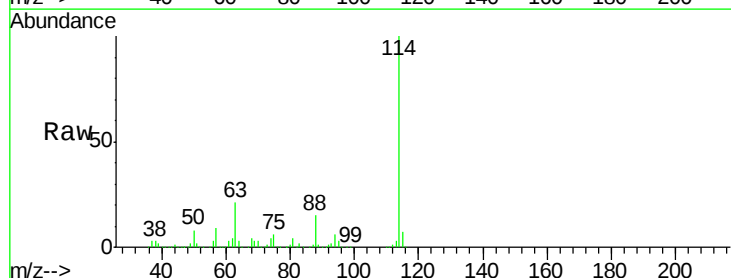
Instrument :
 MSVOA_X
 ClientSampleId :

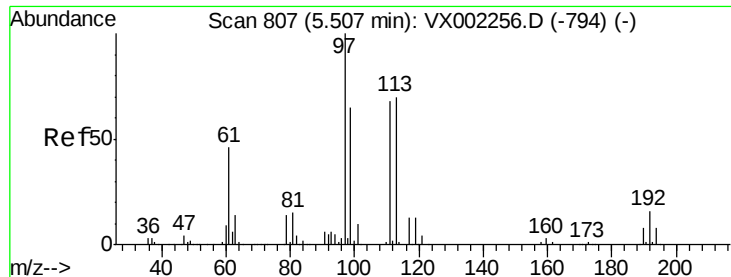
Tot Ion: 65 Resp: 173720
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002347.D
 Acq: 06 Jun 2018 12:49

Tgt Ion: 114 Resp: 359707
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.4
 88 15.3 0.0 30.0

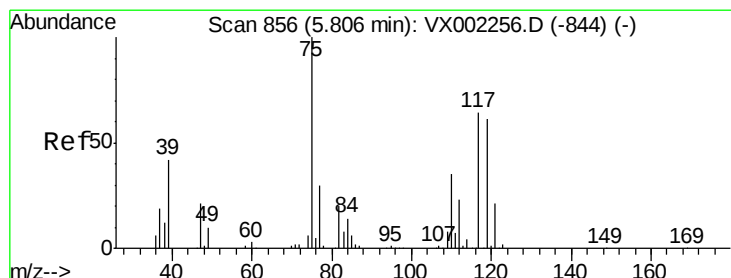
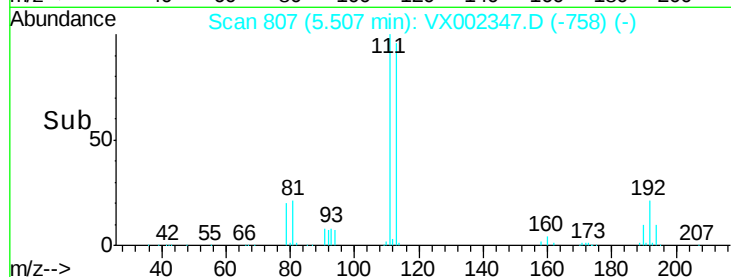
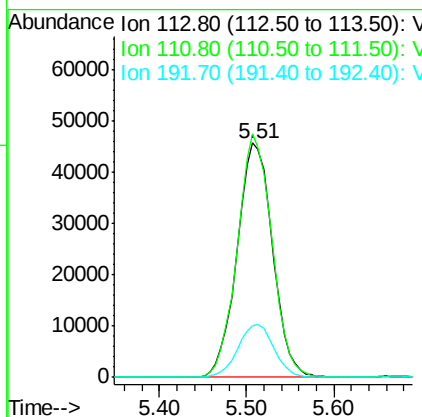
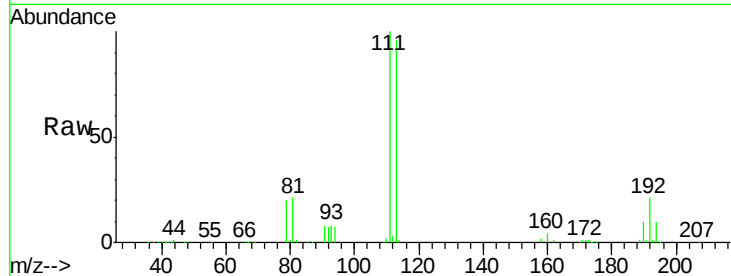




#35
 Dibromofluoromethane
 Concen: 45.68 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002347.D
 Acq: 06 Jun 2018 12:49

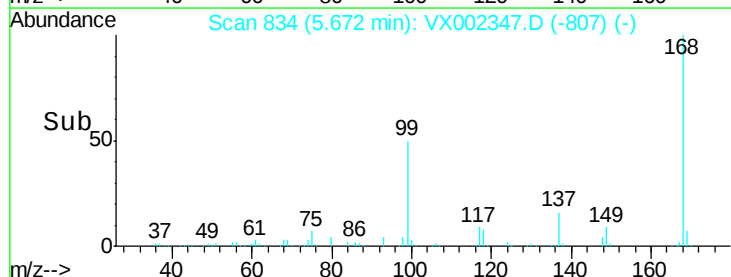
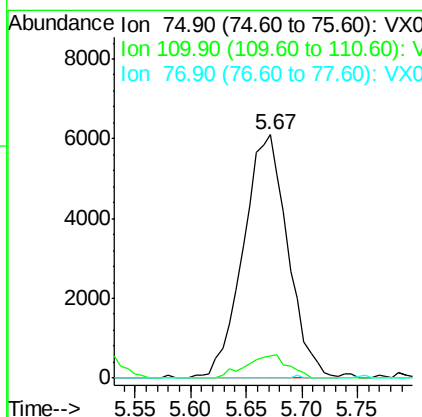
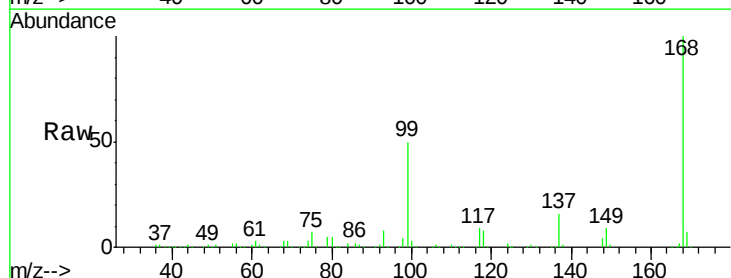
Instrument :
 MSVOA_X
 ClientSampleId :

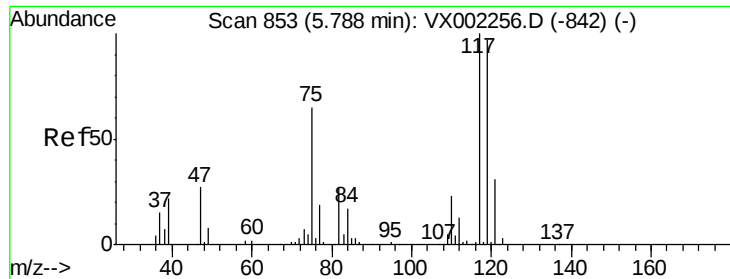
Tot Ion:113 Resp: 129222
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.4 122.0
 192 22.9 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.49 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002347.D
 Acq: 06 Jun 2018 12:49

Tgt Ion: 75 Resp: 16981
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.1 54.4#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.75 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

ClientSampleId :

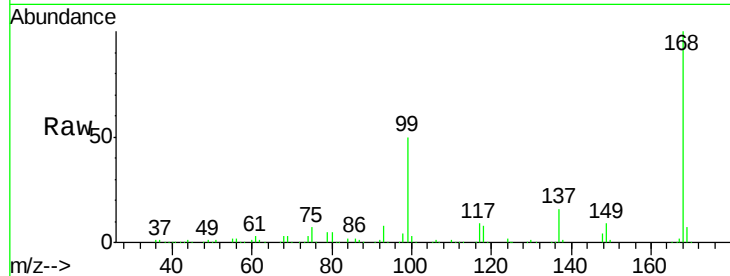
Tot Ion:117 Resp: 22740

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

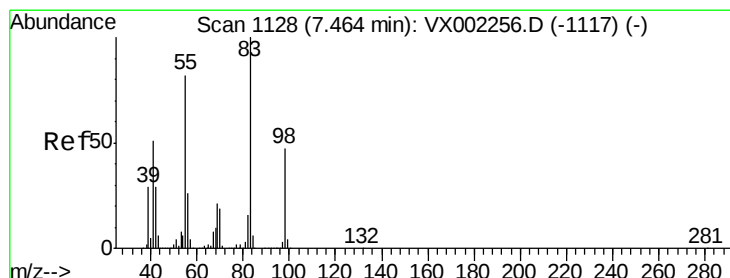
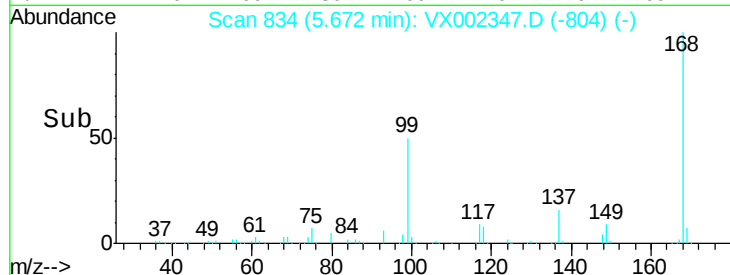
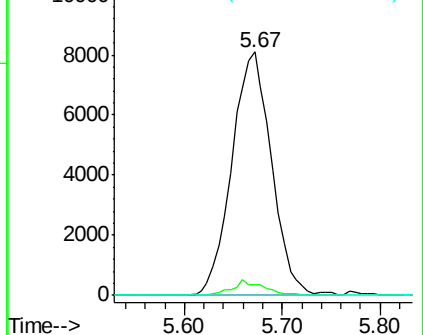
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.28 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

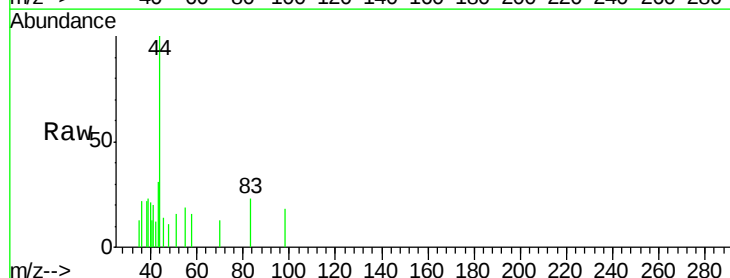
Tgt Ion: 83 Resp: 85

Ion Ratio Lower Upper

83 100

55 80.6 65.4 98.0

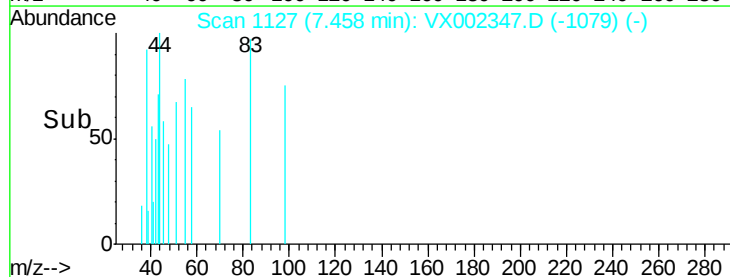
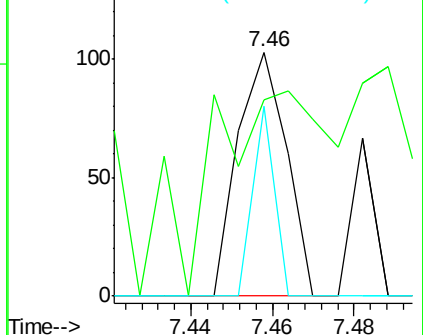
98 77.7 37.4 56.0#

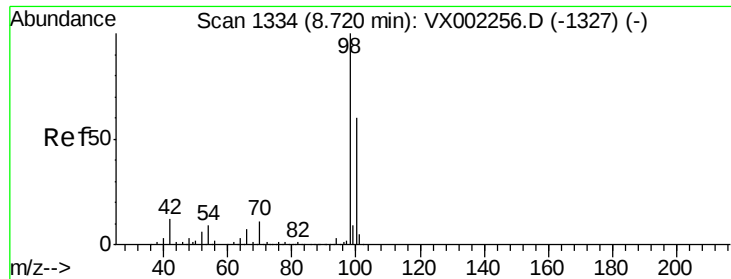


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

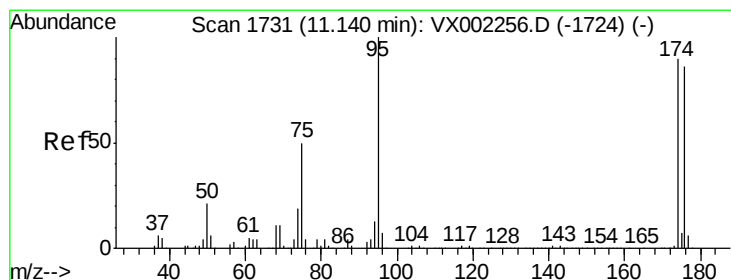
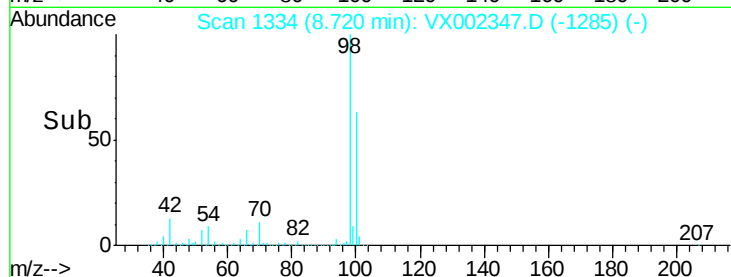
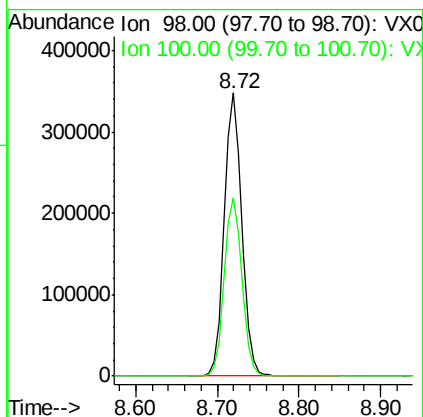
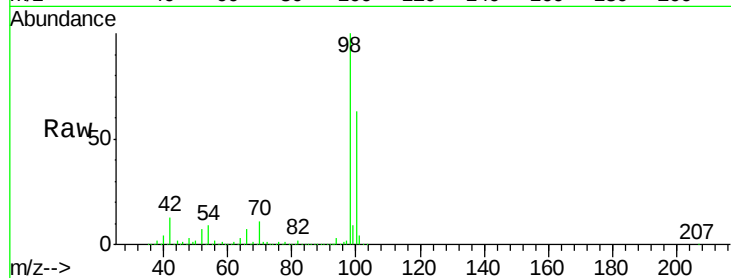




#50
Toluene-d8
Concen: 47.72 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002347.D
Acq: 06 Jun 2018 12:49

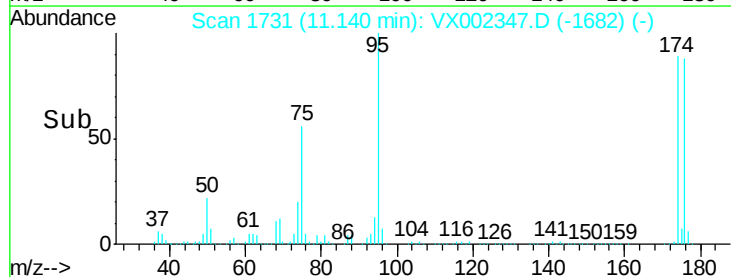
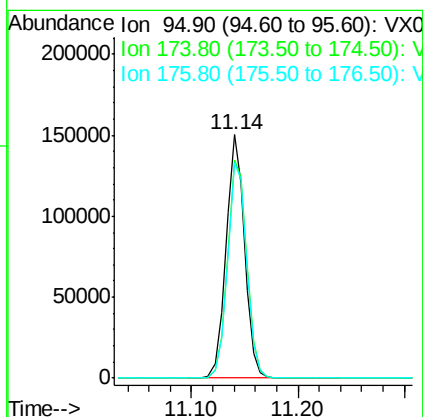
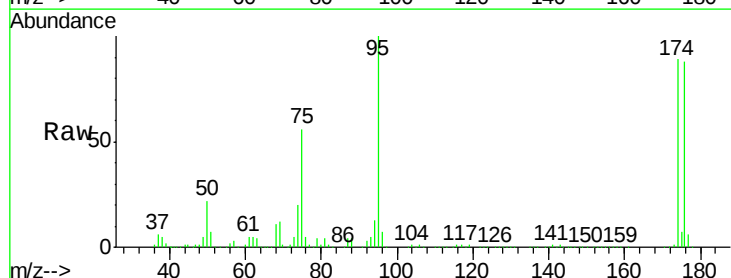
Instrument :
MSVOA_X
ClientSampleId :

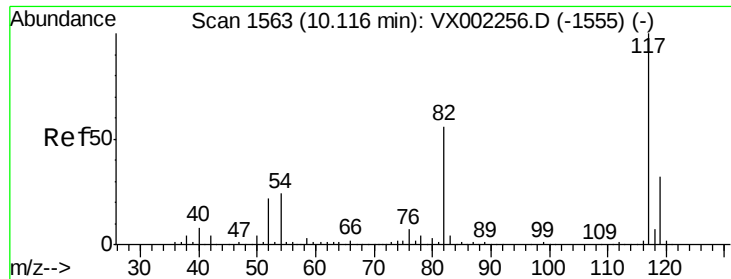
Tot Ion: 98 Resp: 517399
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.70 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002347.D
Acq: 06 Jun 2018 12:49

Tgt Ion: 95 Resp: 182716
Ion Ratio Lower Upper
95 100
174 93.3 0.0 187.4
176 91.3 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

ClientSampleId :

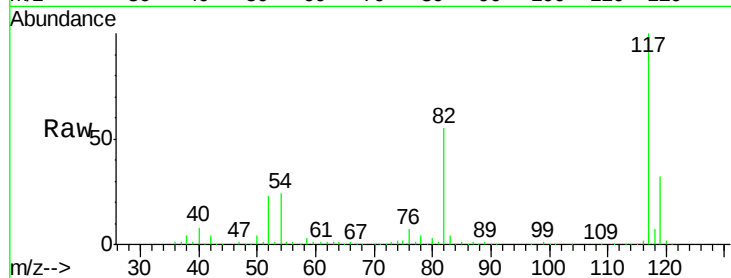
Tot Ion:117 Resp: 332053

Ion Ratio Lower Upper

117 100

82 55.2 45.0 67.4

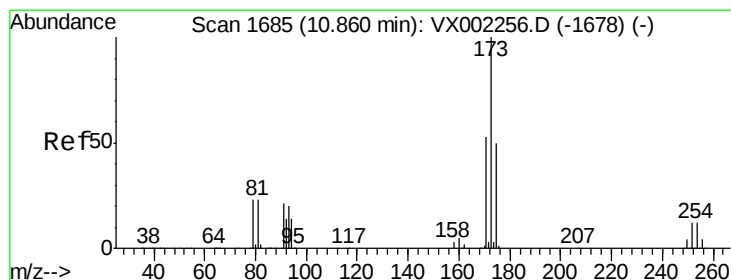
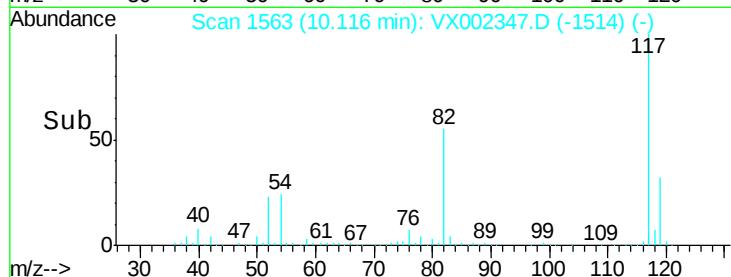
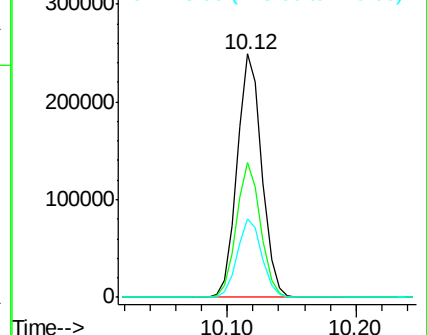
119 32.0 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.48 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

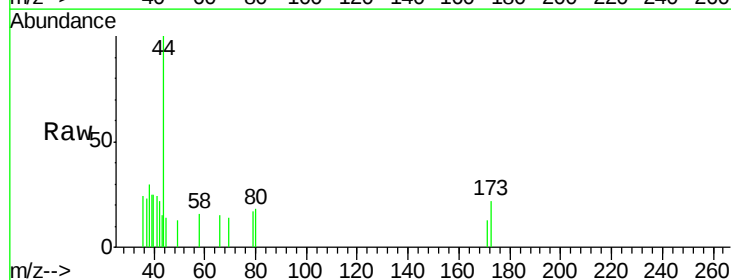
Tgt Ion:173 Resp: 57

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

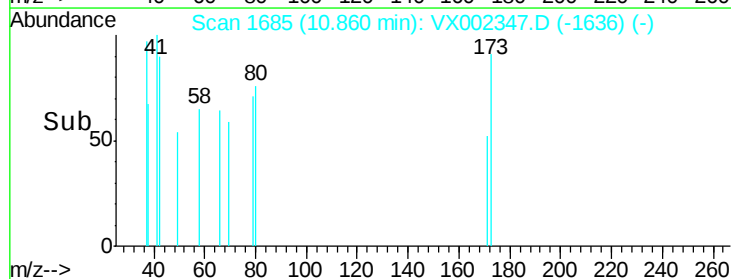
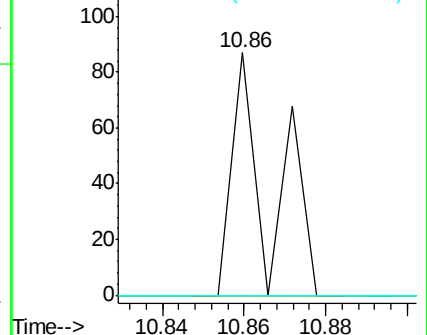
254 0.0 0.2 0.2#

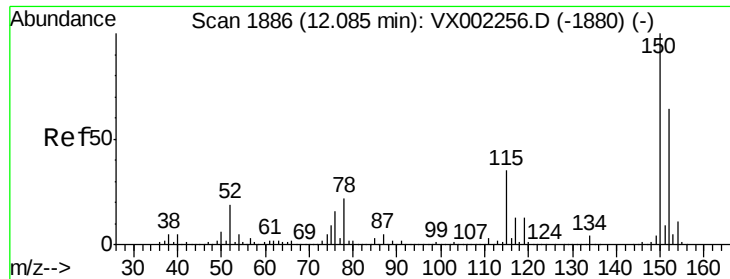


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

ClientSampleId :

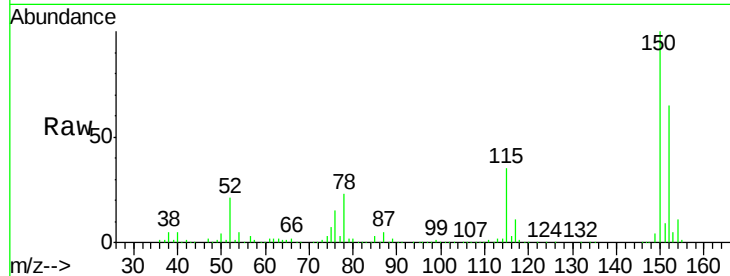
Tot Ion:152 Resp: 189167

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

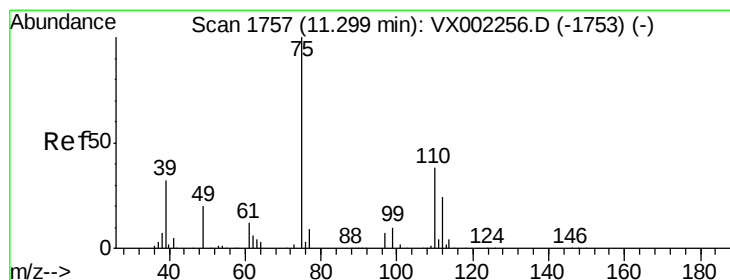
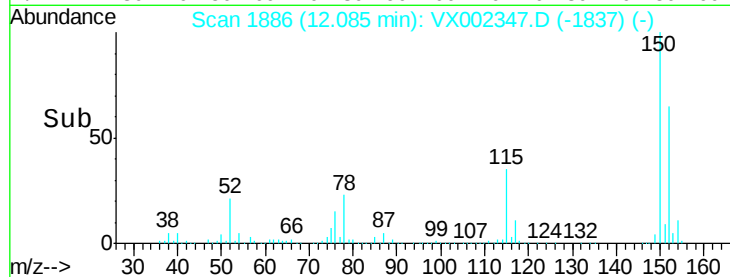
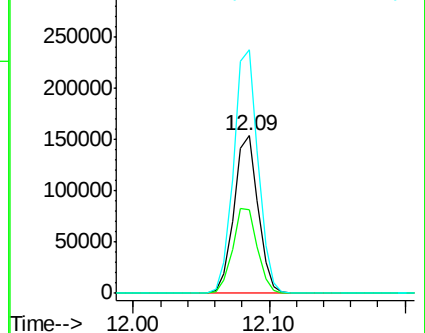
150 156.7 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 24.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002347.D

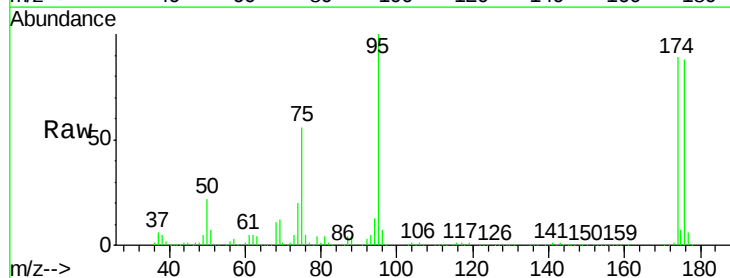
Acq: 06 Jun 2018 12:49

Tgt Ion: 75 Resp: 101137

Ion Ratio Lower Upper

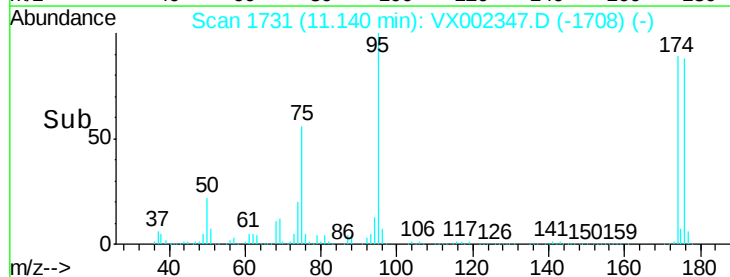
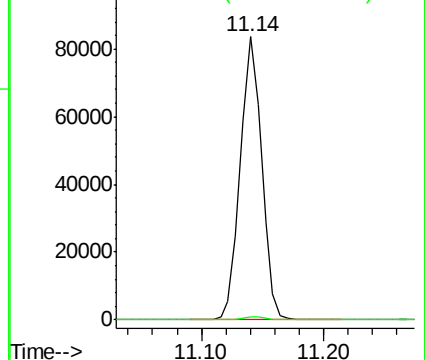
75 100

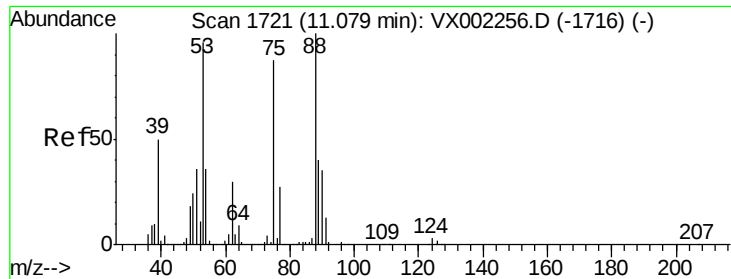
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 85.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002347.D

Acq: 06 Jun 2018 12:49

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 101137

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

