

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002304.D
 Acq On : 05 Jun 2018 14:37
 Operator : JC/MD
 Sample : J3269-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW603-180531

Quant Time: Jun 06 04:30:53 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	257330	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	372979	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	194409	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	178672	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
35) Dibromofluoromethane	5.51	113	131681	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
50) Toluene-d8	8.72	98	538870	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
62) 4-Bromofluorobenzene	11.14	95	190087	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	

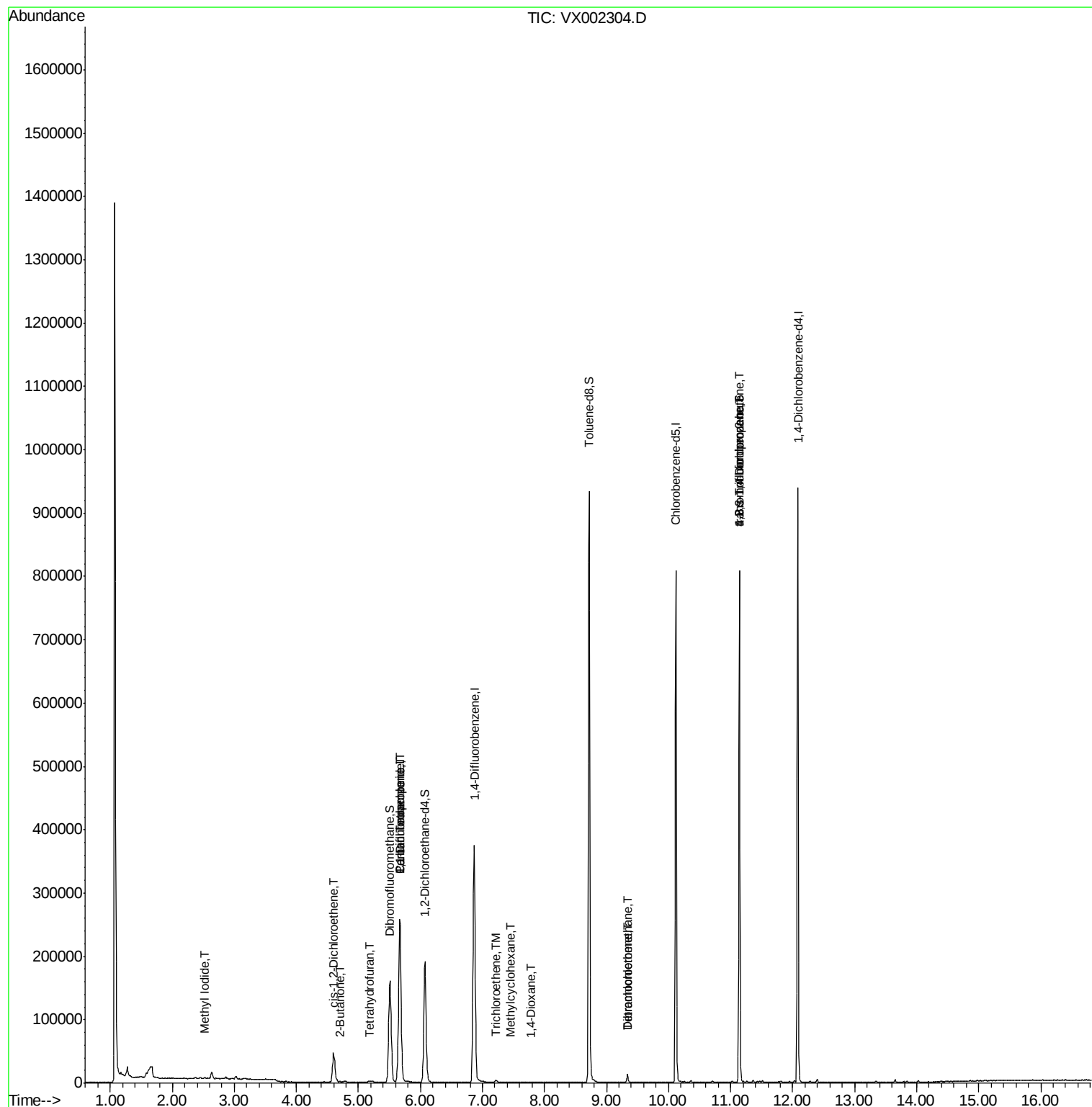
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	584	Below Cal		94
5) Bromomethane	1.64	94	1951	Below Cal	#	78
8) Diethyl Ether	2.27	74	47	Below Cal		81
10) Methyl Iodide	2.53	142	1706	0.44	ug/l	99
11) Tert butyl alcohol	3.03	59	2640	Below Cal	#	87
13) Acrolein	2.31	56	263	Below Cal	#	81
15) Acrylonitrile	3.15	53	285	Below Cal	#	14
16) Acetone	2.45	43	1540	Below Cal	#	78
18) Methyl Acetate	2.79	43	335	Below Cal	#	14
19) Methyl tert-butyl Ether	3.21	73	419	Below Cal	#	87
20) Methylene Chloride	2.86	84	933	Below Cal	#	79
22) Diisopropyl ether	3.89	45	42	Below Cal	#	35
25) 2-Butanone	4.71	43	915	0.36	ug/l	52
27) cis-1,2-Dichloroethene	4.60	96	27782	8.46	ug/l	92
28) Bromochloromethane	5.01	49	19	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	2370	1.46	ug/l	91
36) 1,1-Dichloropropene	5.67	75	18193	4.64	ug/l	51
38) Carbon Tetrachloride	5.67	117	24982	6.09	ug/l	15
39) Methylcyclohexane	7.45	83	324	0.33	ug/l	70
44) Trichloroethene	7.21	130	1222	0.37	ug/l	66
49) 1,4-Dioxane	7.77	88	43	0.57	ug/l	1
60) Dibromochloromethane	9.34	129	2069	0.65	ug/l	11
64) Tetrachloroethene	9.34	164	2187	0.61	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	102578	24.05	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	102578	84.29	ug/l	6

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

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QLast Update : Tue Jun 05 03:22:35 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

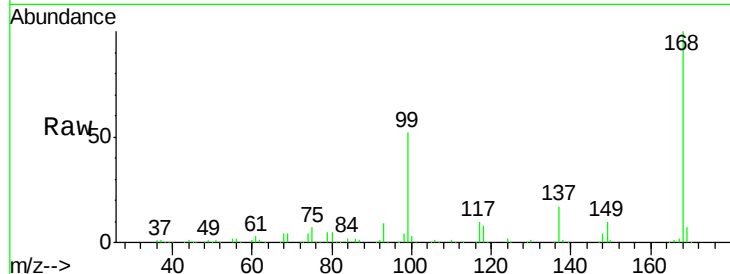
SS052MW603-180531

Tot Ion:168 Resp: 257330

Ion Ratio Lower Upper

168 100

99 51.5 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

100000

80000

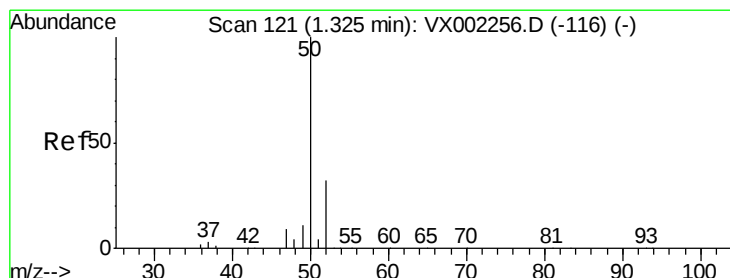
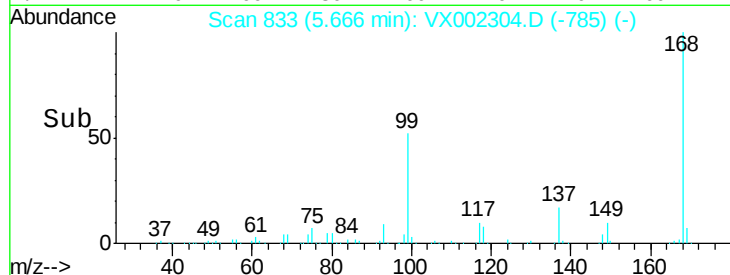
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002304.D

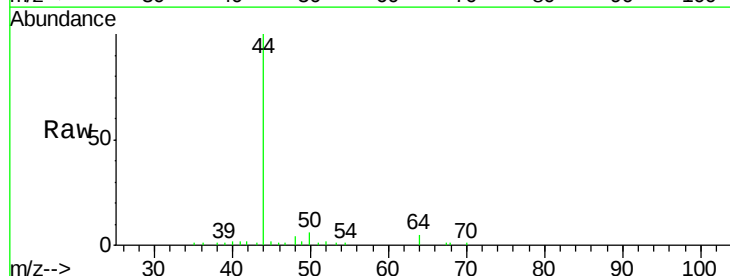
Acq: 05 Jun 2018 14:37

Tgt Ion: 50 Resp: 584

Ion Ratio Lower Upper

50 100

52 28.6 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

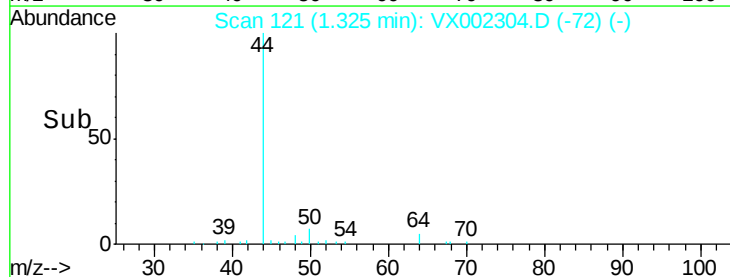
300

200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

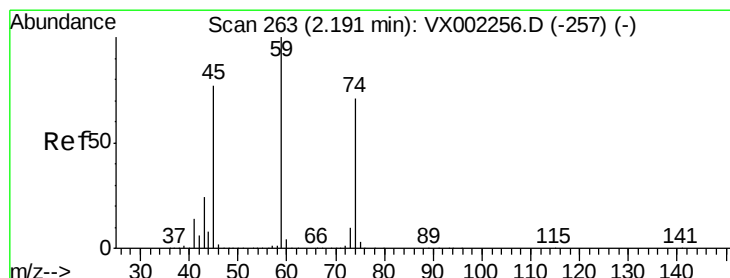
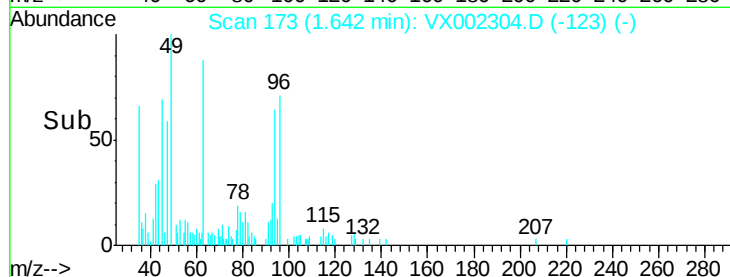
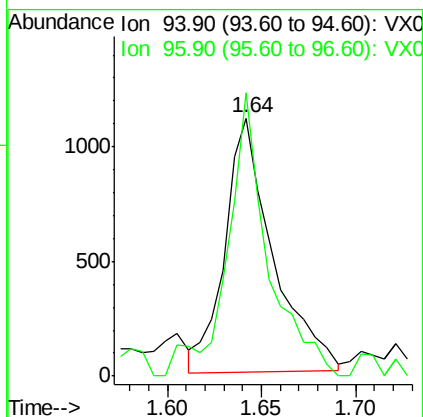
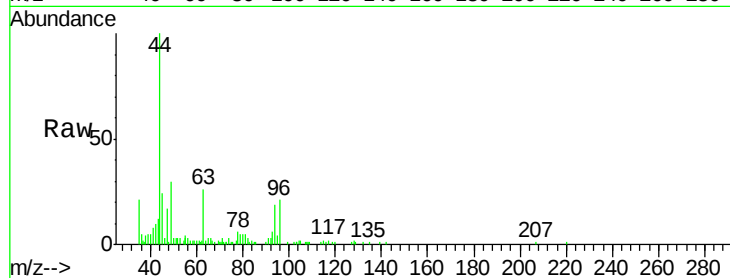
SS052MW603-180531

Tot Ion: 94 Resp: 1951

Ion Ratio Lower Upper

94 100

96 115.0 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.27 min Scan# 276

Delta R.T. 0.08 min

Lab File: VX002304.D

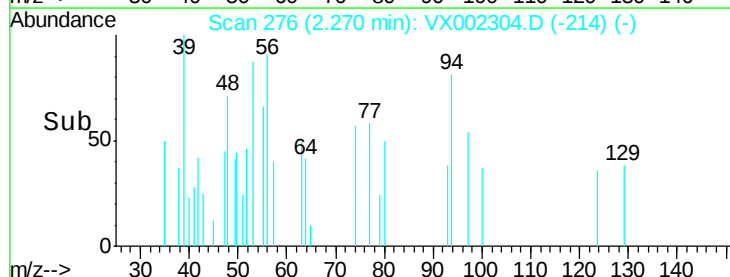
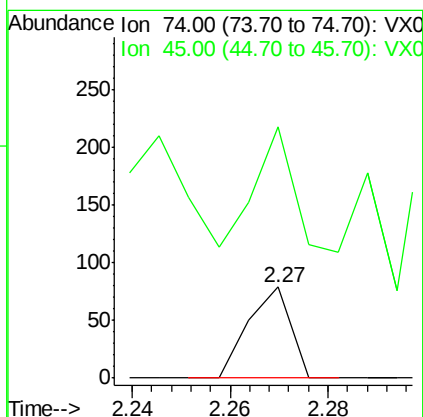
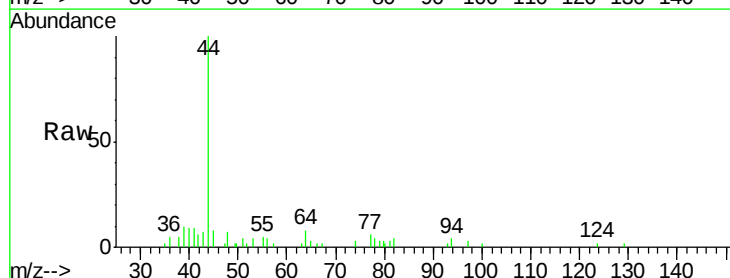
Acq: 05 Jun 2018 14:37

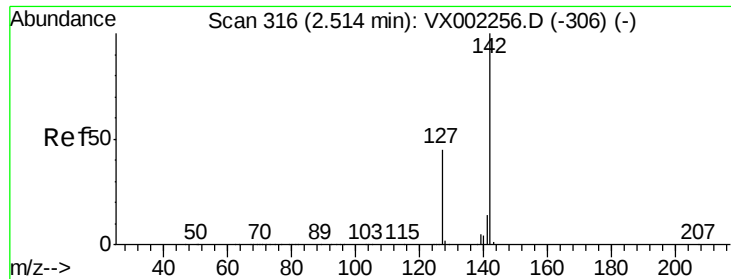
Tgt Ion: 74 Resp: 47

Ion Ratio Lower Upper

74 100

45 125.5 53.1 159.4

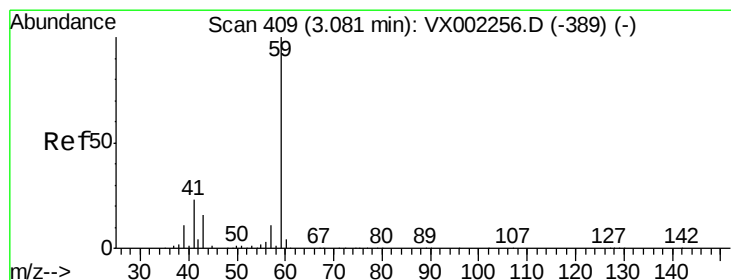
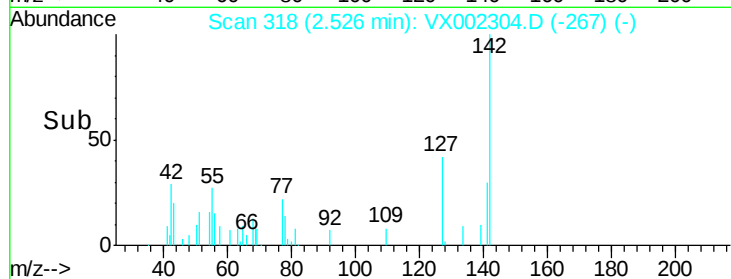
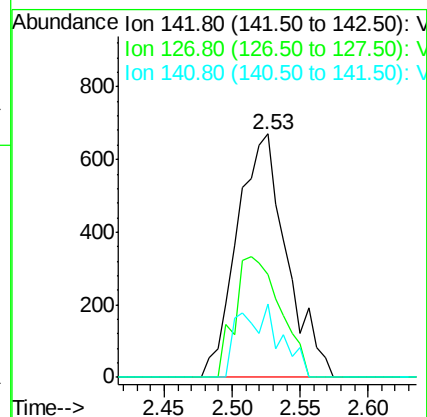
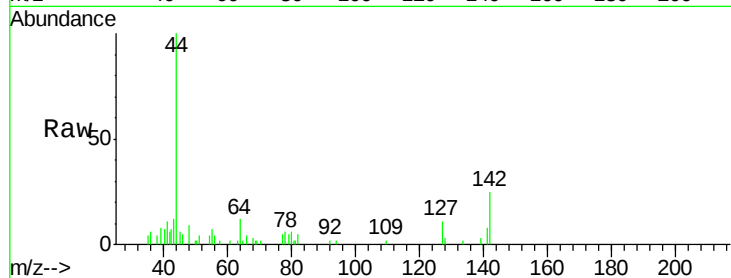




#10
Methyl Iodide
Concen: 0.44 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002304.D
Acq: 05 Jun 2018 14:37

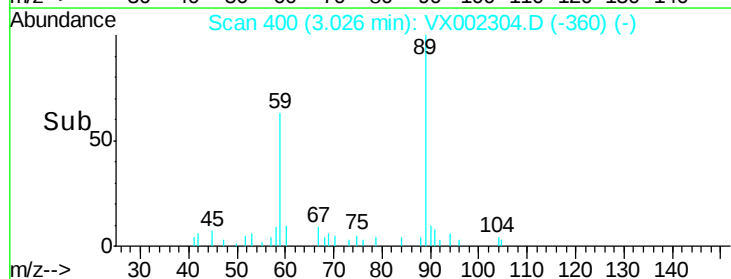
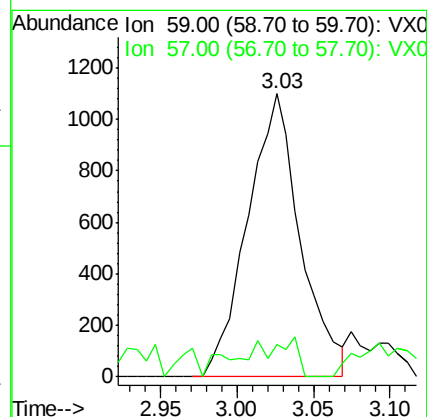
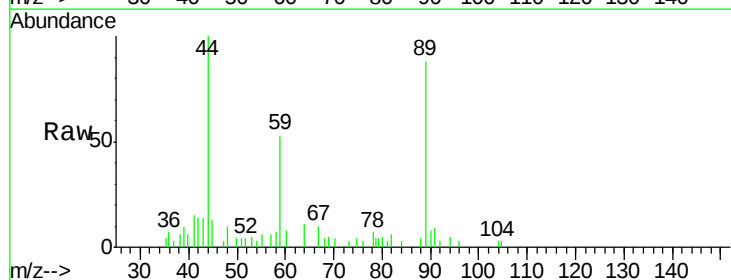
Instrument :
MSVOA_X
ClientSampleId :
SS052MW603-180531

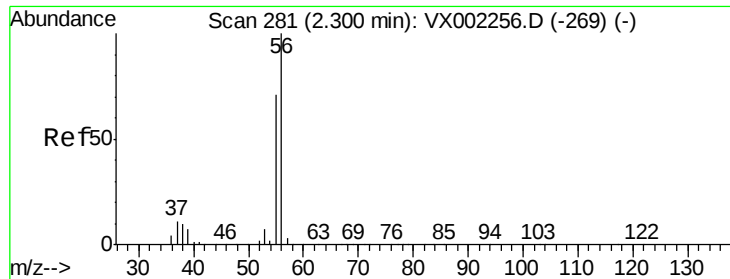
Tot Ion:142 Resp: 1706
Ion Ratio Lower Upper
142 100
127 45.3 36.6 55.0
141 13.2 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002304.D
Acq: 05 Jun 2018 14:37

Tgt Ion: 59 Resp: 2640
Ion Ratio Lower Upper
59 100
57 5.3 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 283

Delta R.T. 0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

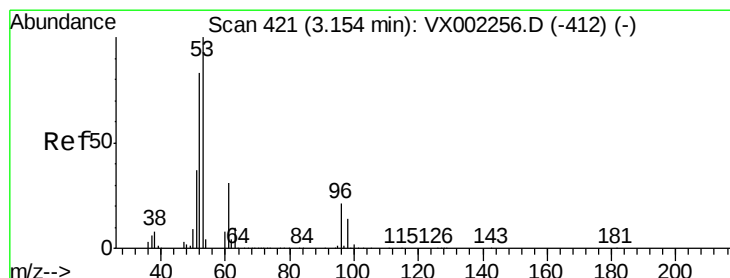
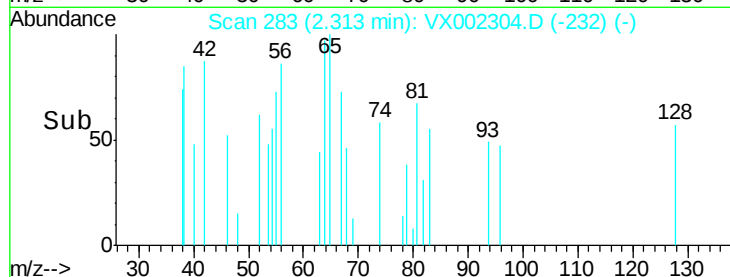
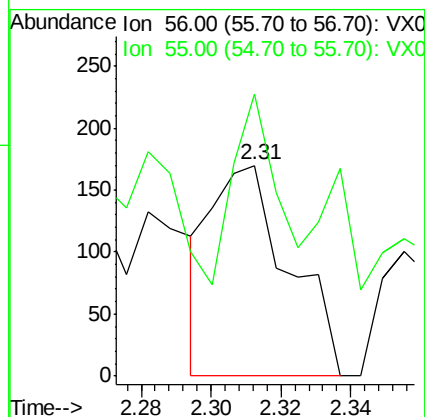
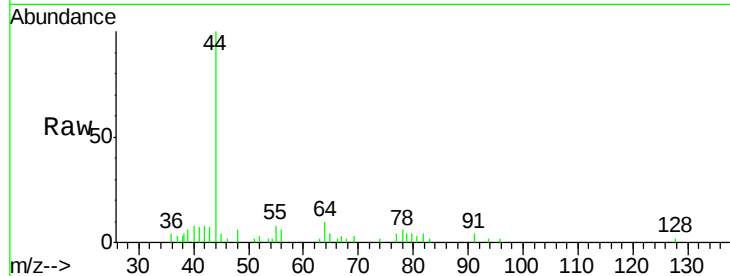
SS052MW603-180531

Tot Ion: 56 Resp: 263

Ion Ratio Lower Upper

56 100

55 55.5 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

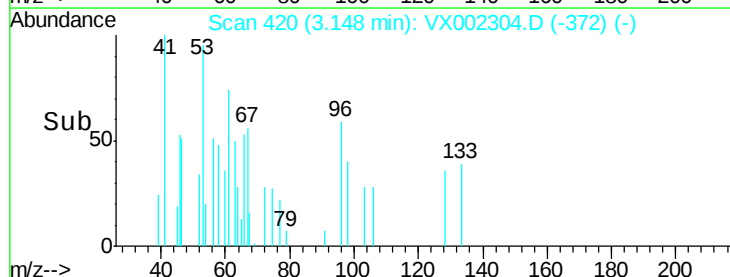
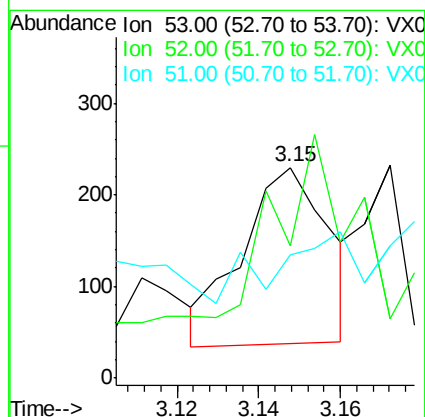
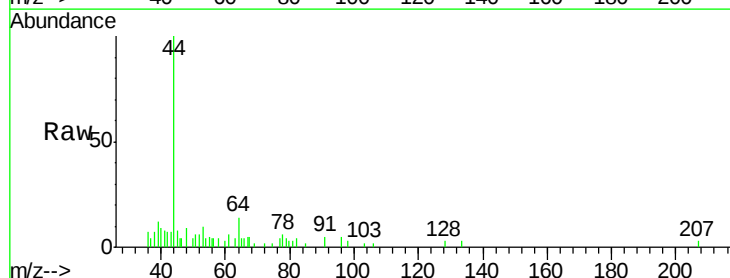
Tgt Ion: 53 Resp: 285

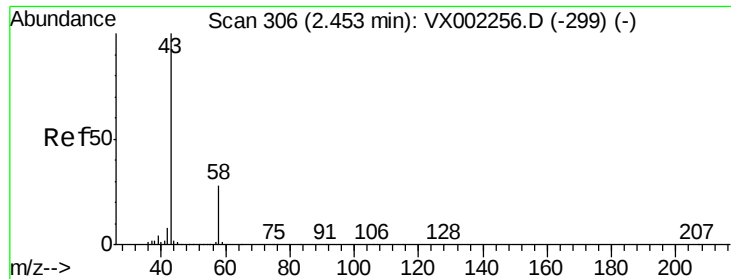
Ion Ratio Lower Upper

53 100

52 195.1 66.7 100.1#

51 36.1 29.9 44.9





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

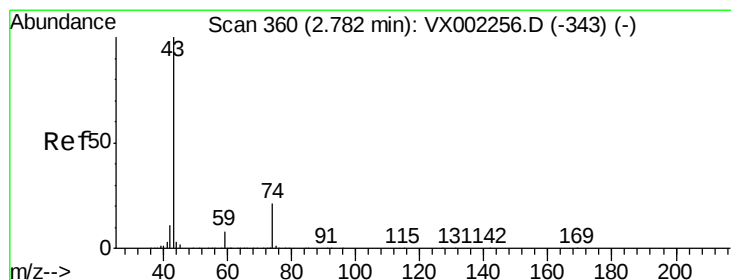
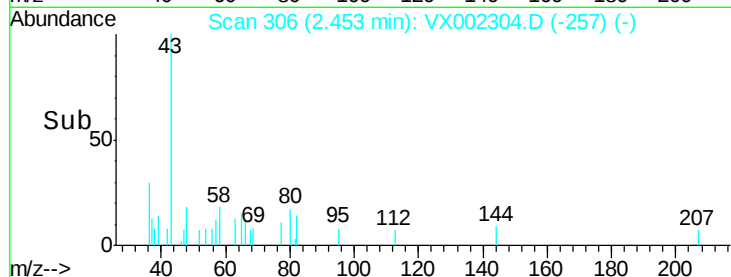
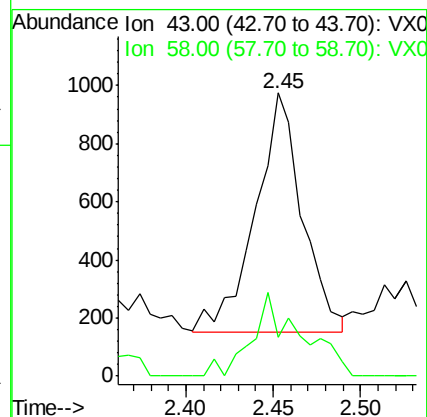
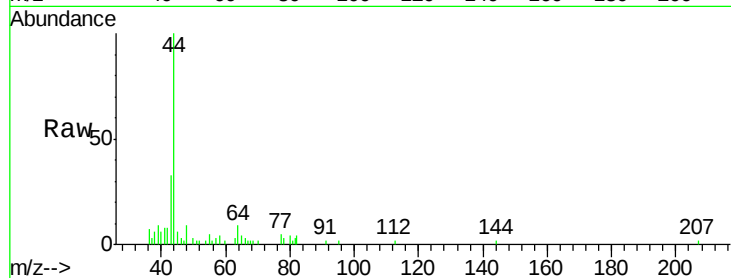
SS052MW603-180531

Tot Ion: 43 Resp: 1540

Ion Ratio Lower Upper

43 100

58 16.3 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002304.D

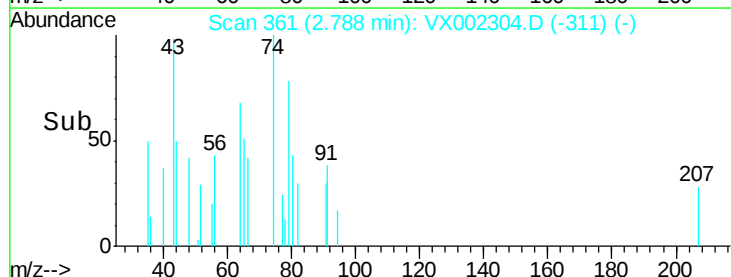
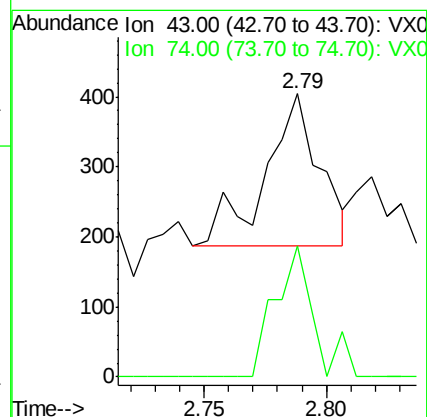
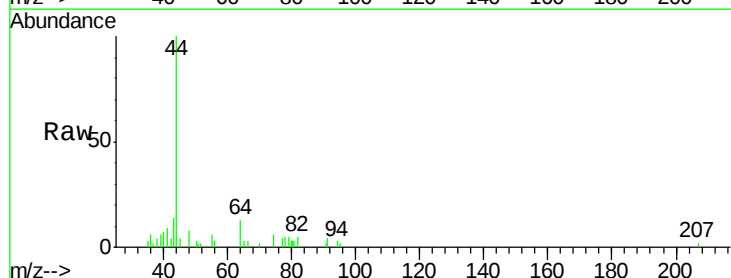
Acq: 05 Jun 2018 14:37

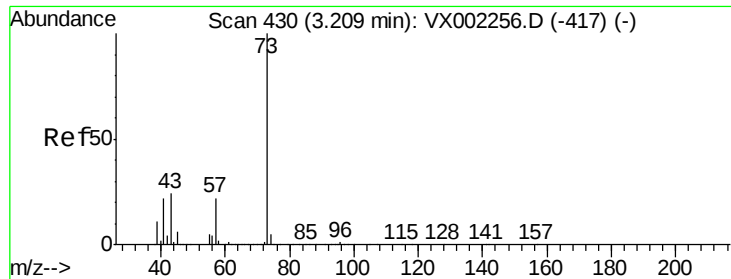
Tgt Ion: 43 Resp: 335

Ion Ratio Lower Upper

43 100

74 61.2 16.7 25.1#





#19

Methyl tert-butyl Ether

Concen: Below Cal

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

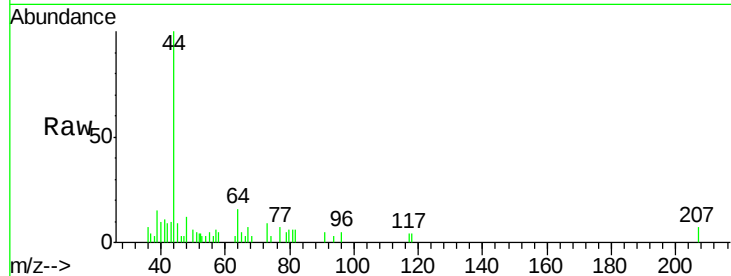
SS052MW603-180531

Tot Ion: 73 Resp: 419

Ion Ratio Lower Upper

73 100

57 28.4 17.7 26.5#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.21

150

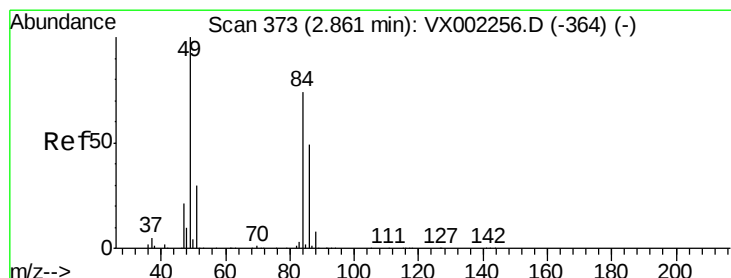
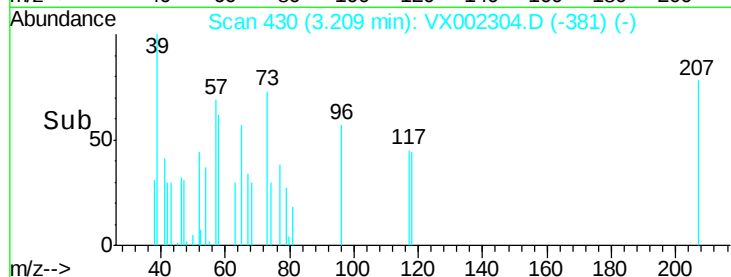
100

50

0

3.15 3.20 3.25

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Tgt Ion: 84 Resp: 933

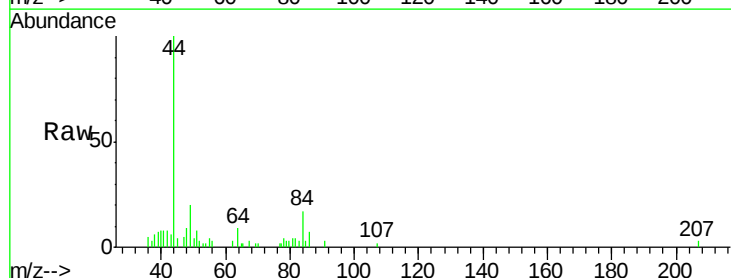
Ion Ratio Lower Upper

84 100

49 117.4 107.8 161.6

51 26.4 32.8 49.2#

86 38.5 52.5 78.7#



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

800

600

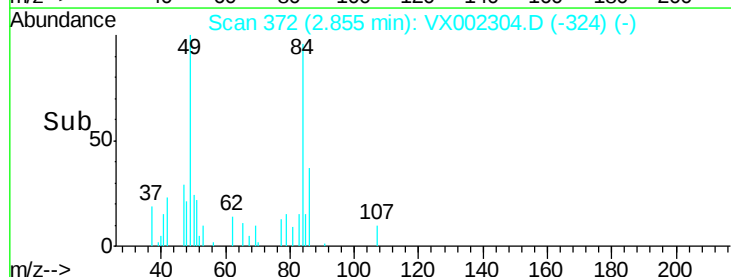
400

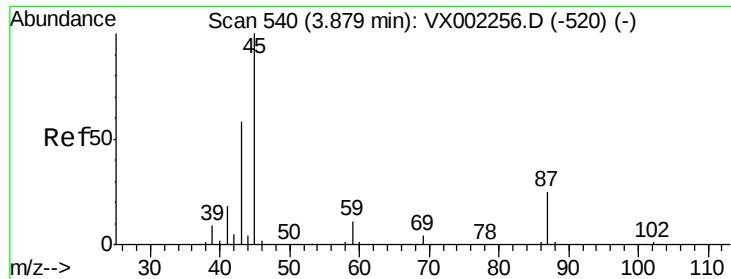
200

0

2.80 2.85 2.90

Time-->

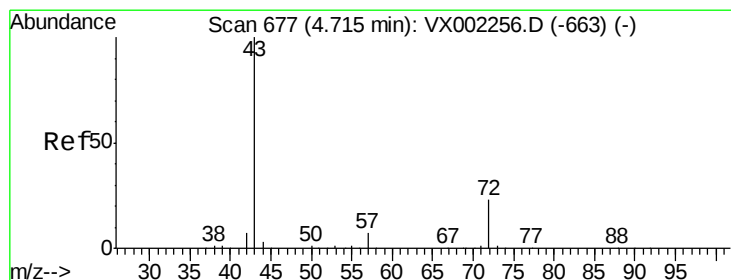
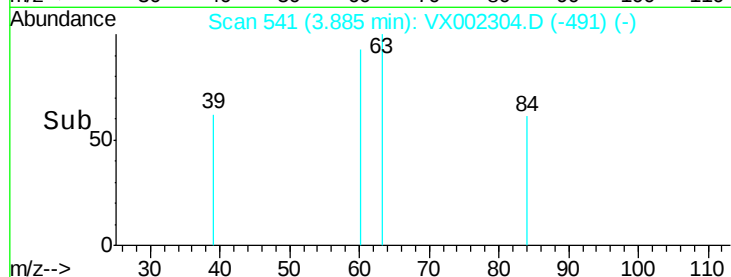
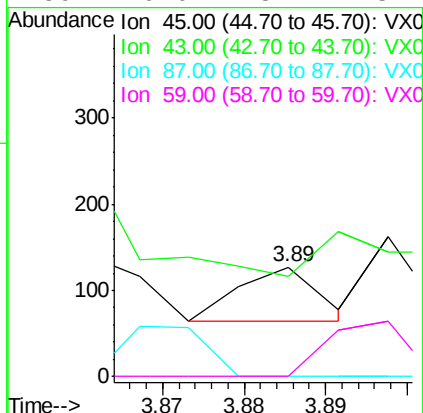
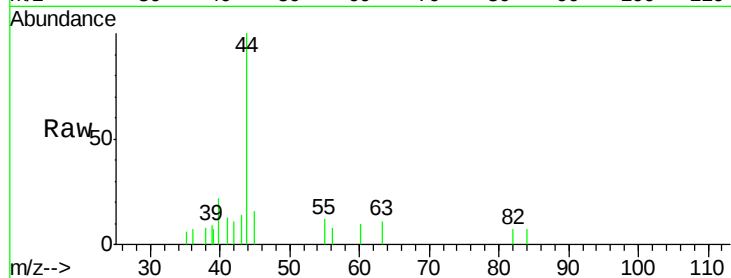




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002304.D
Acq: 05 Jun 2018 14:37

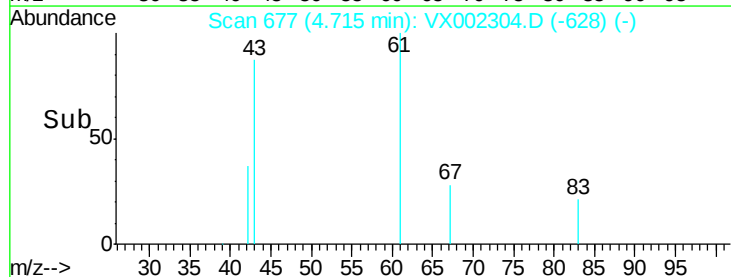
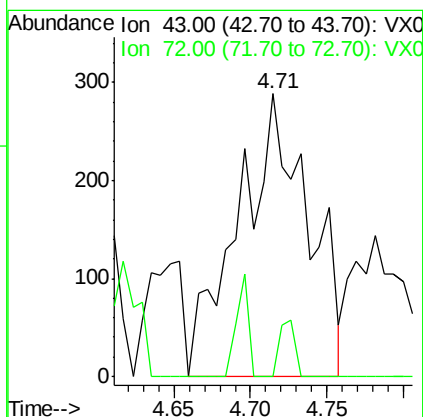
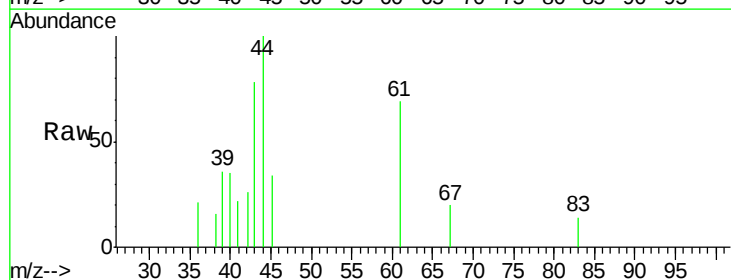
Instrument :
MSVOA_X
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SS052MW603-180531

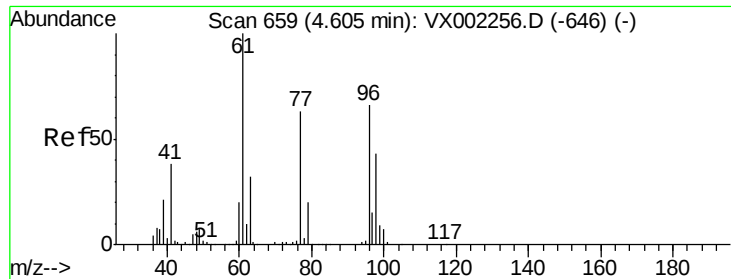
Tot Ion: 45 Resp: 42
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#



#25
2-Butanone
Concen: 0.36 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002304.D
Acq: 05 Jun 2018 14:37

Tgt Ion: 43 Resp: 915
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#27

cis-1,2-Dichloroethene

Concen: 8.46 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

SS052MW603-180531

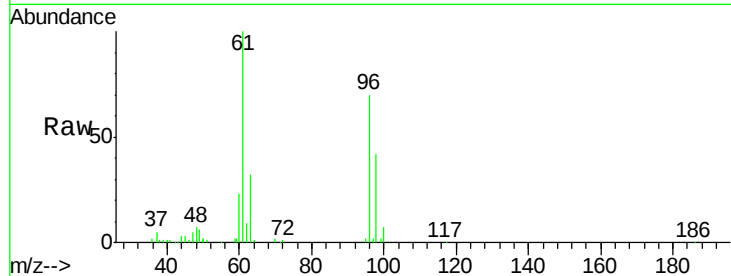
Tot Ion: 96 Resp: 27782

Ion Ratio Lower Upper

96 100

61 150.7 0.0 330.2

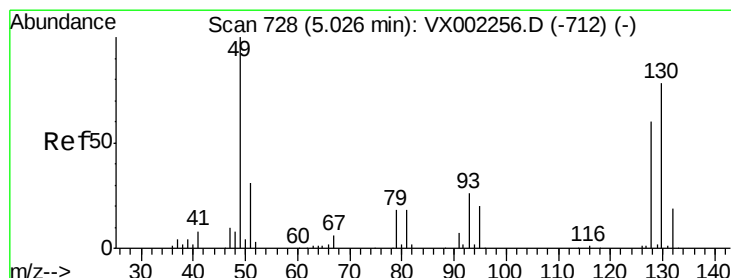
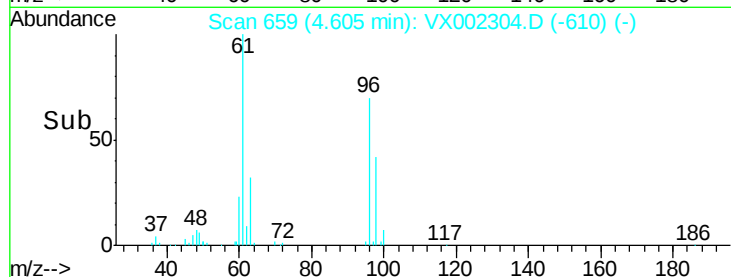
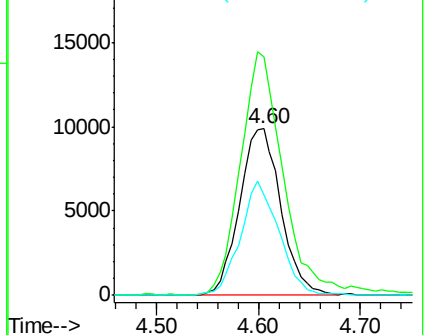
98 64.2 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

Delta R.T. -0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

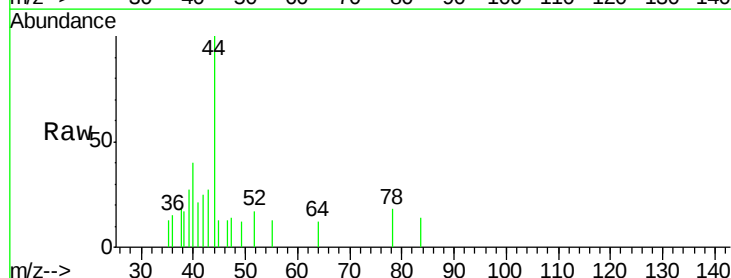
Tgt Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

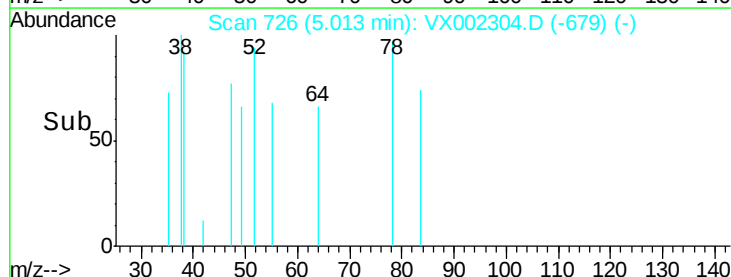
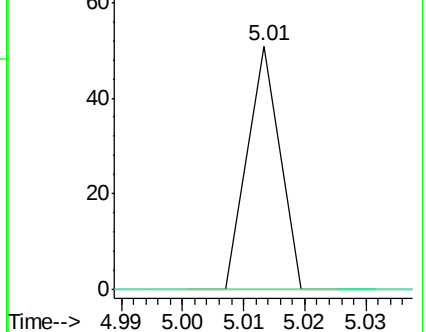
130 0.0 61.2 91.8#

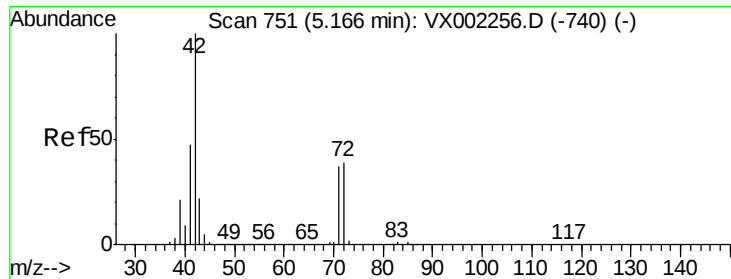


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 1.46 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

SS052MW603-180531

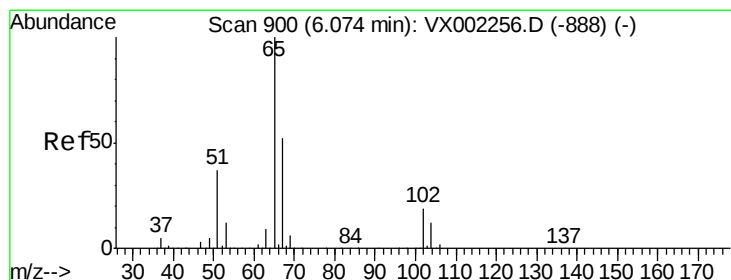
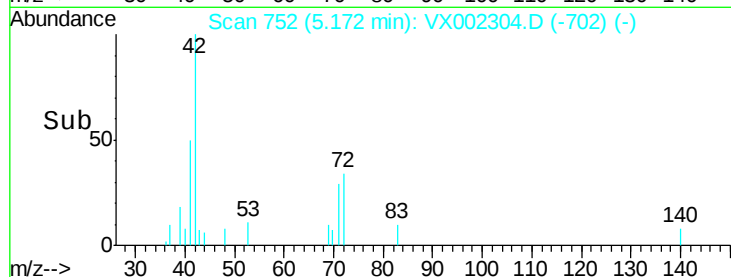
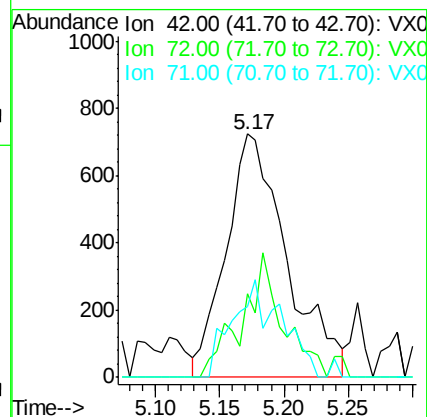
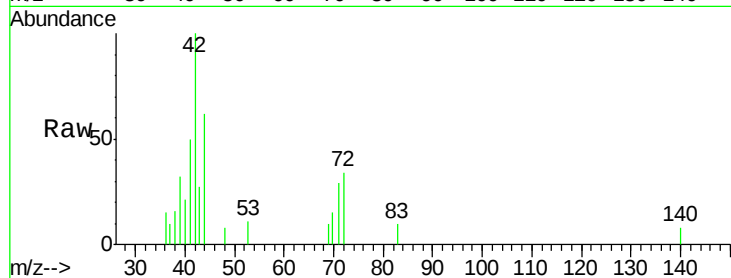
Tot Ion: 42 Resp: 2370

Ion Ratio Lower Upper

42 100

72 34.2 32.0 48.0

71 32.6 30.1 45.1



#33

1,2-Dichloroethane-d4

Concen: 48.45 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002304.D

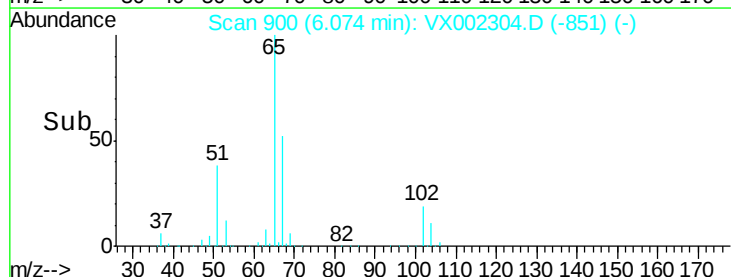
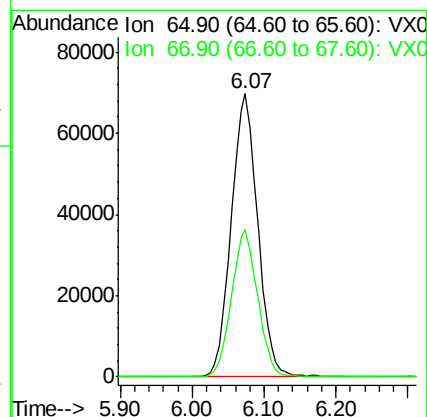
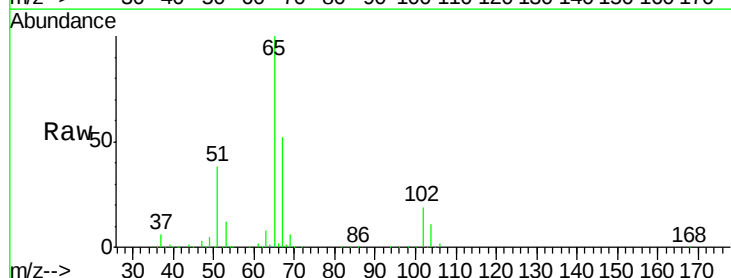
Acq: 05 Jun 2018 14:37

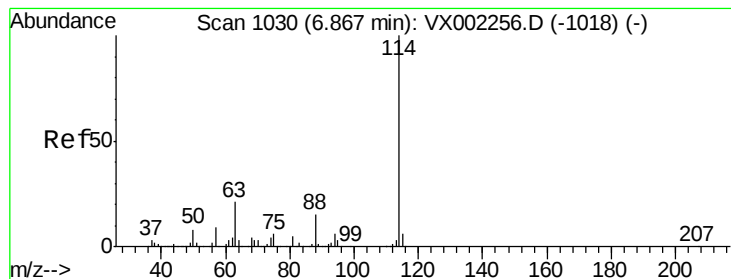
Tgt Ion: 65 Resp: 178672

Ion Ratio Lower Upper

65 100

67 51.2 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: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

SS052MW603-180531

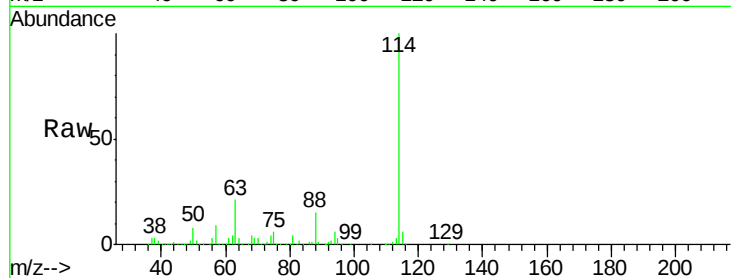
Tot Ion:114 Resp: 372979

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

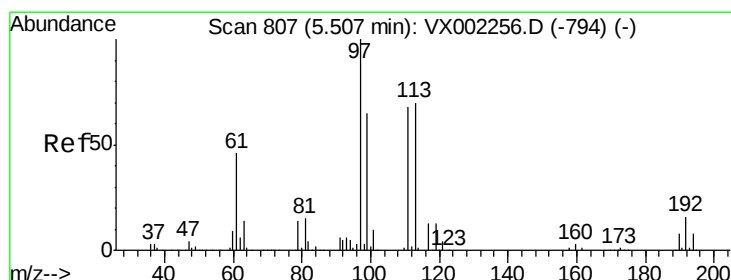
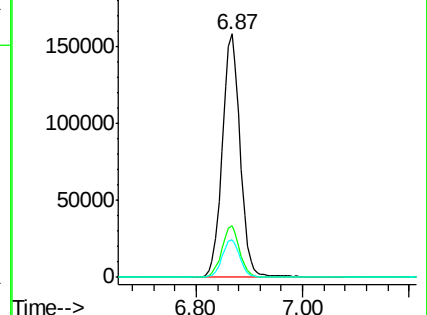
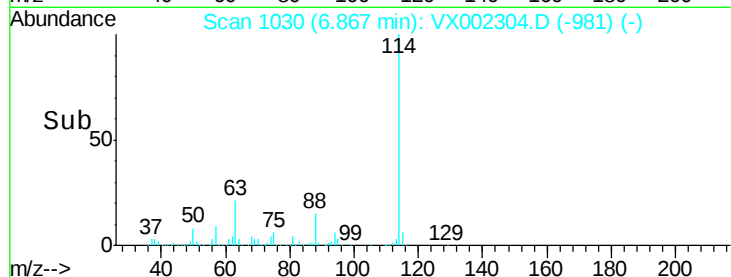
88 15.4 0.0 30.0



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: 44.89 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

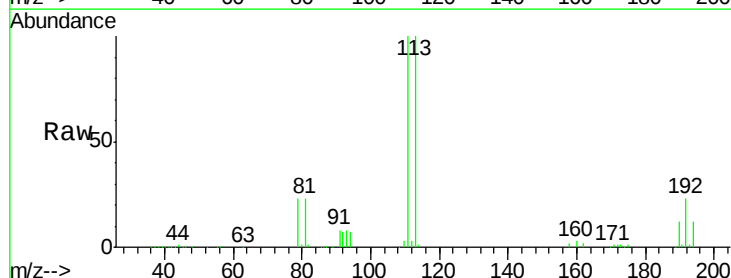
Tgt Ion:113 Resp: 131681

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

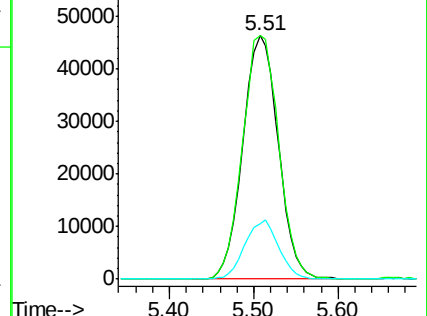
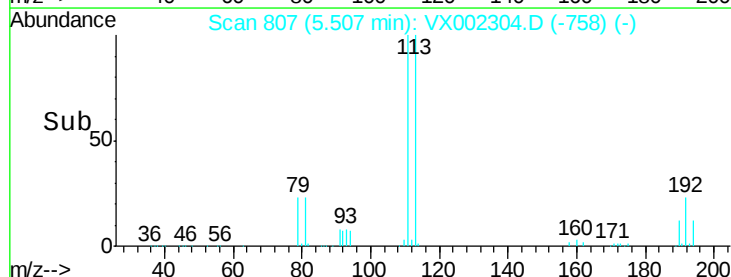
192 23.3 19.1 28.7

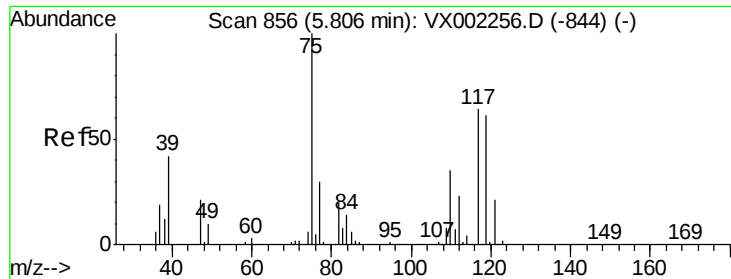


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

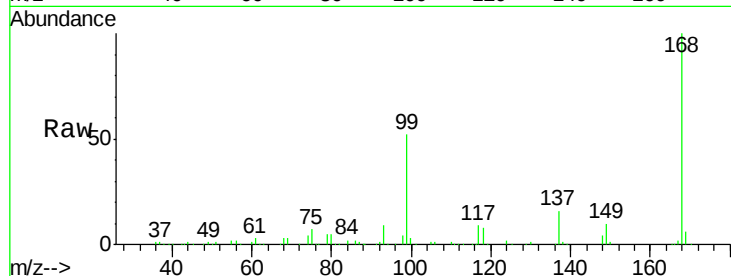




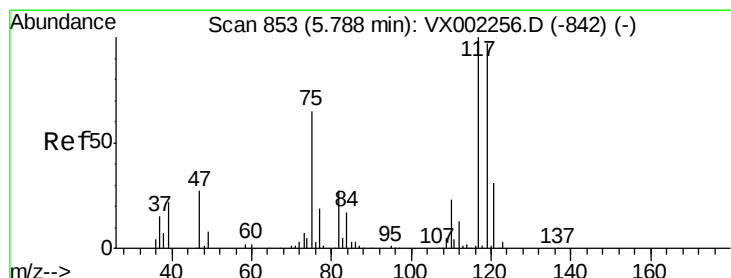
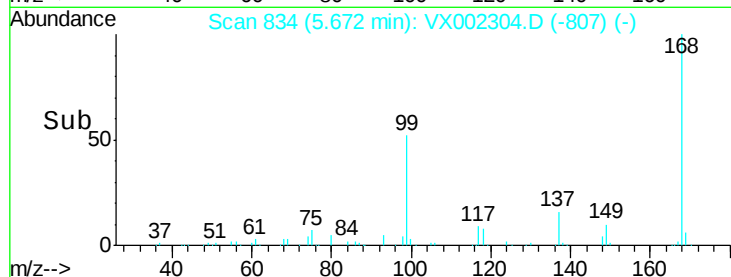
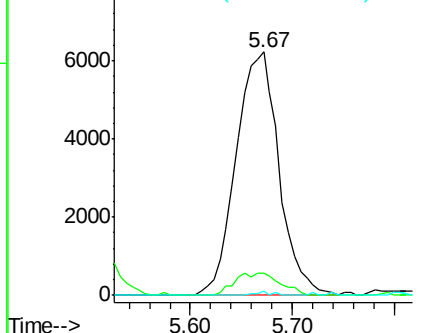
#36
 1,1-Dichloropropene
 Concen: 4.64 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002304.D
 Acq: 05 Jun 2018 14:37

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW603-180531

Tot Ion	75	Resp	18193
Ion Ratio	Lower	Upper	
75	100		
110	9.8	18.1	54.4#
77	0.6	24.3	36.5#

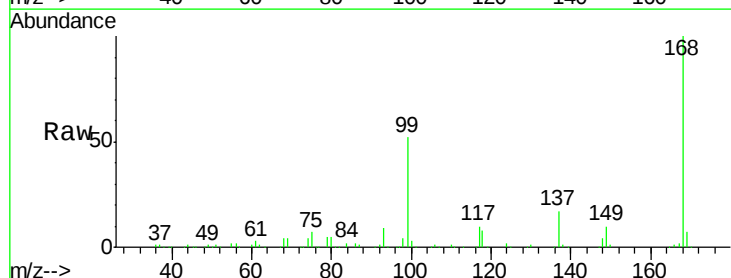


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

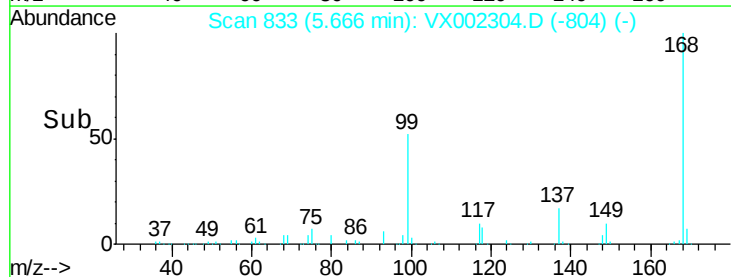
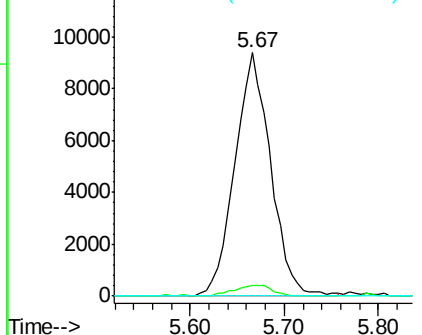


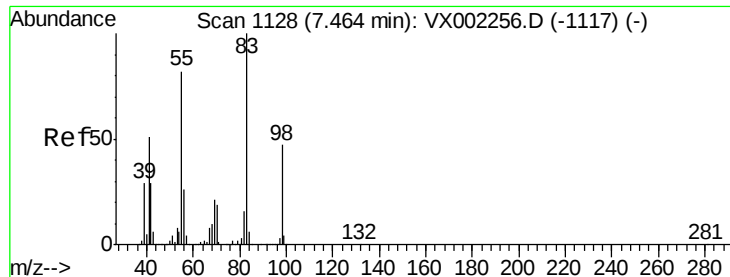
#38
 Carbon Tetrachloride
 Concen: 6.09 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002304.D
 Acq: 05 Jun 2018 14:37

Tgt Ion	117	Resp	24982
Ion Ratio	Lower	Upper	
117	100		
119	4.5	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

Methvlcvclohexane

Concen: 0.33 ug/l

RT: 7.45 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

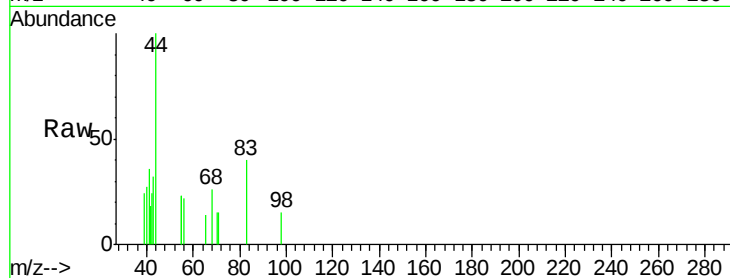
MSVOA_X

ClientSampleId :

SS052MW603-180531

Tot Ion: 83 Resp: 324

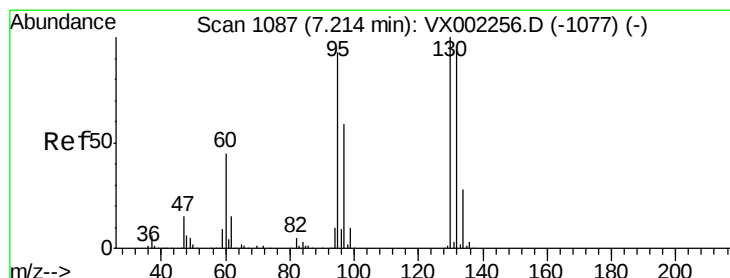
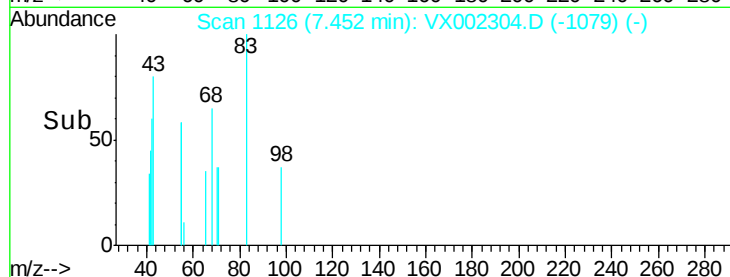
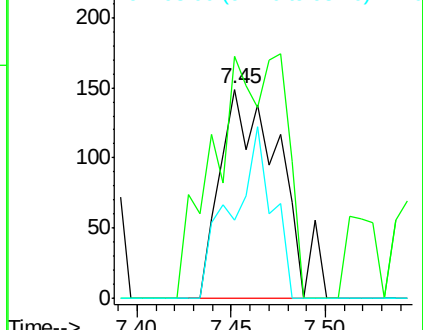
Ion	Ratio	Lower	Upper
83	100		
55	116.1	65.4	98.0#
98	36.9	37.4	56.0#



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



#44

Trichloroethene

Concen: 0.37 ug/l

RT: 7.21 min Scan# 1087

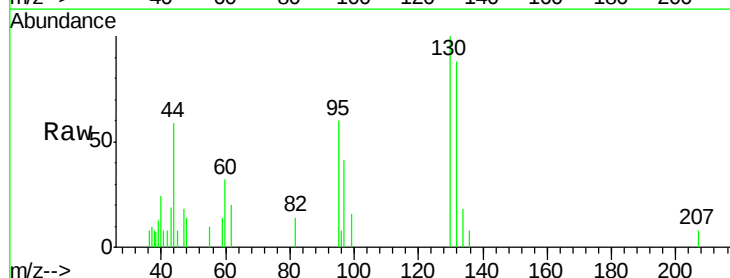
Delta R.T. -0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

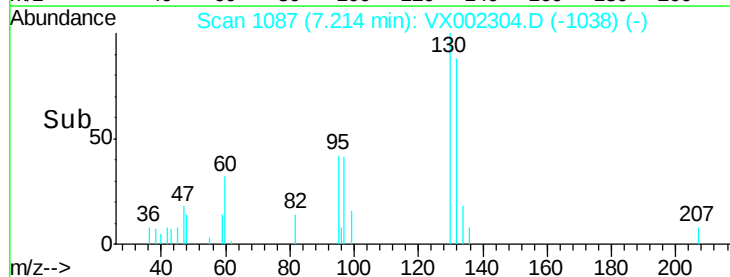
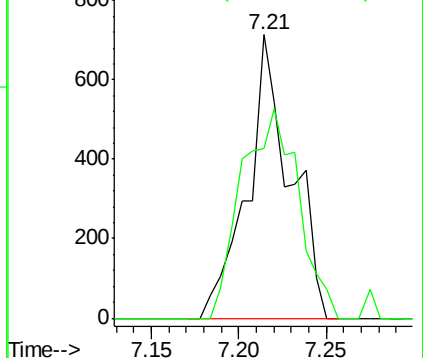
Tgt Ion: 130 Resp: 1222

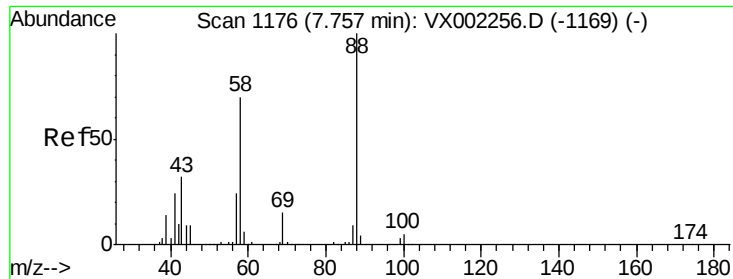
Ion	Ratio	Lower	Upper
130	100		
95	59.9	0.0	185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.57 ug/l

RT: 7.77 min Scan# 1179

Delta R.T. 0.02 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

SS052MW603-180531

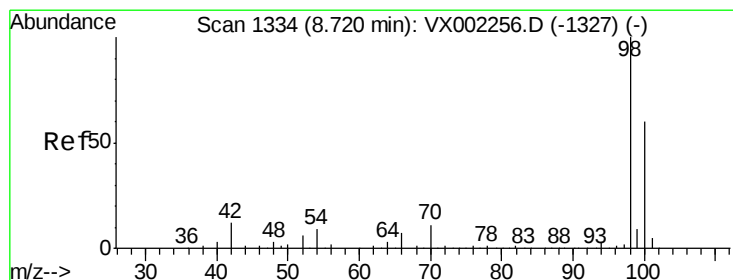
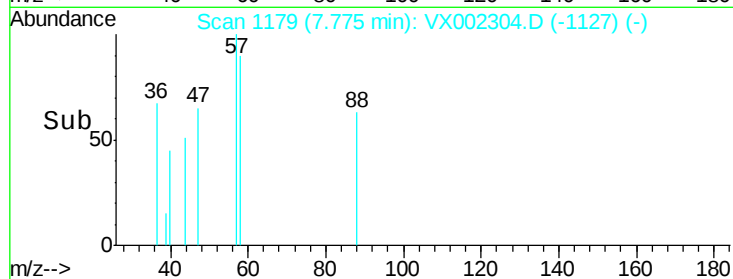
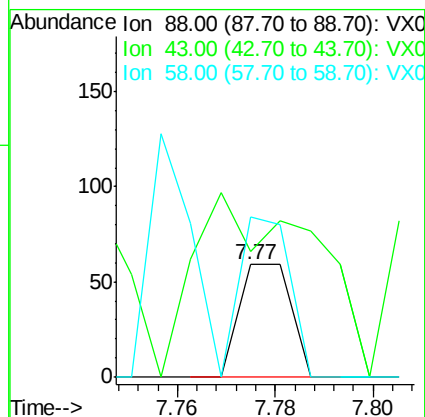
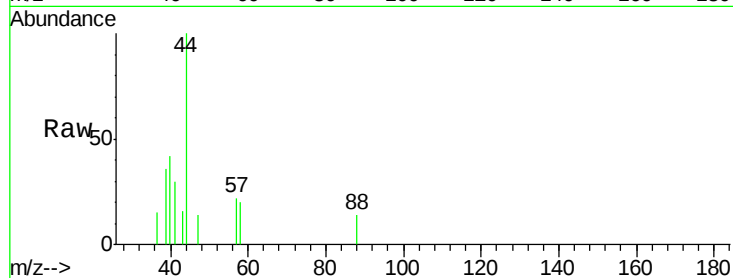
Tot Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

43 376.7 29.8 44.6#

58 139.5 57.1 85.7#



#50

Toluene-d8

Concen: 47.93 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002304.D

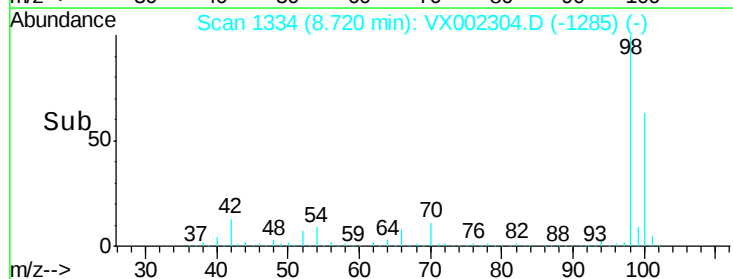
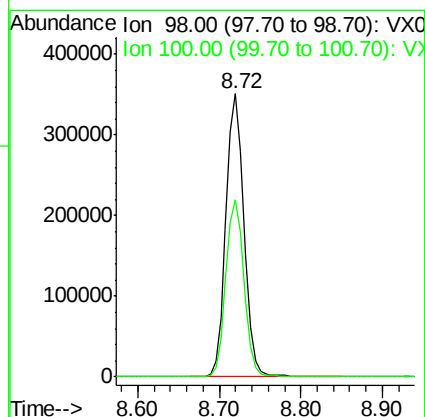
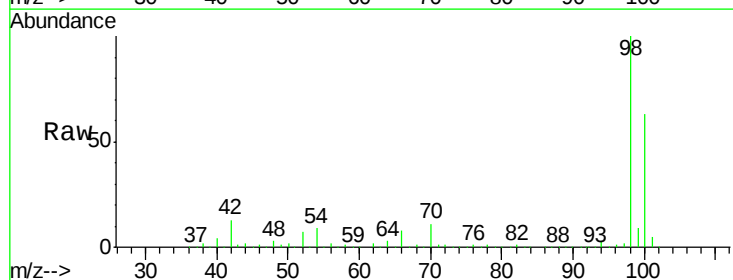
Acq: 05 Jun 2018 14:37

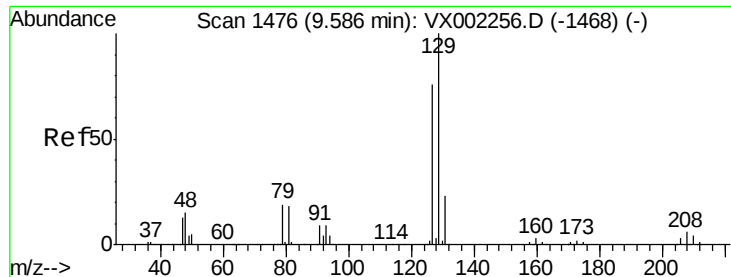
Tgt Ion: 98 Resp: 538870

Ion Ratio Lower Upper

98 100

100 63.2 50.9 76.3





#60

Dibromochloromethane

Concen: 0.65 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

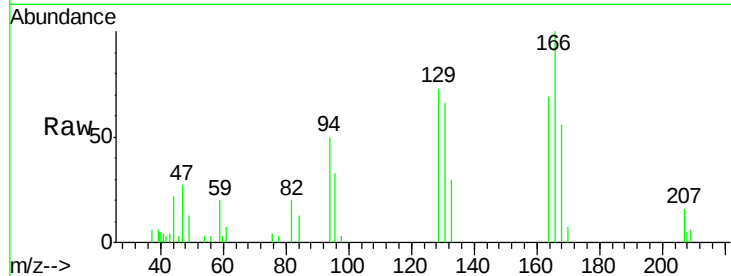
SS052MW603-180531

Tot Ion:129 Resp: 2069

Ion Ratio Lower Upper

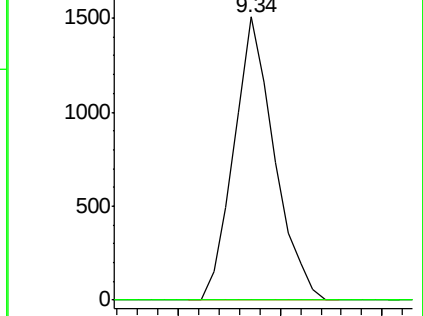
129 100

127 0.0 38.5 115.3#

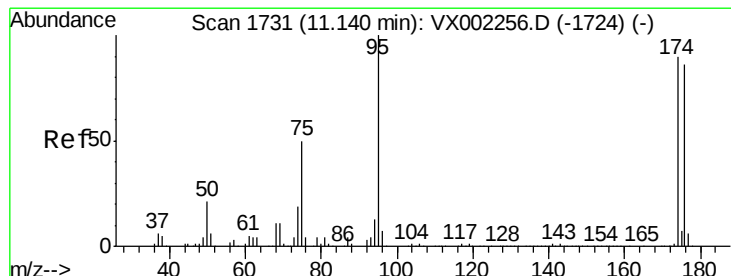
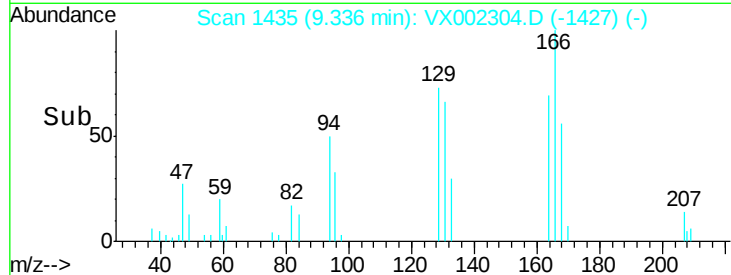


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 43.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

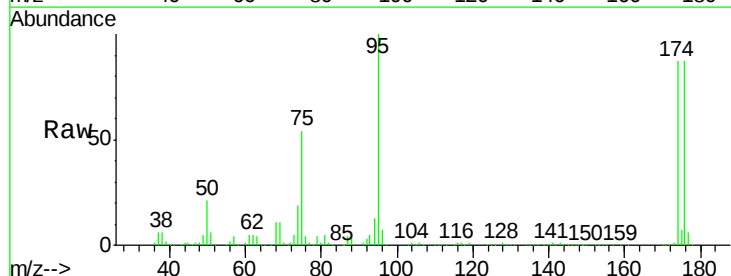
Tgt Ion: 95 Resp: 190087

Ion Ratio Lower Upper

95 100

174 93.8 0.0 187.4

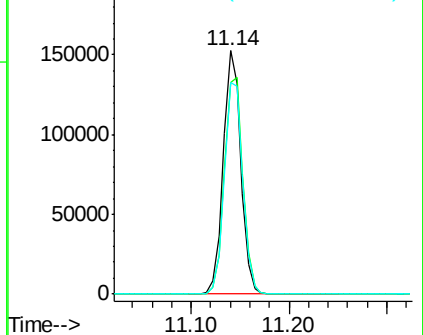
176 91.3 0.0 181.0



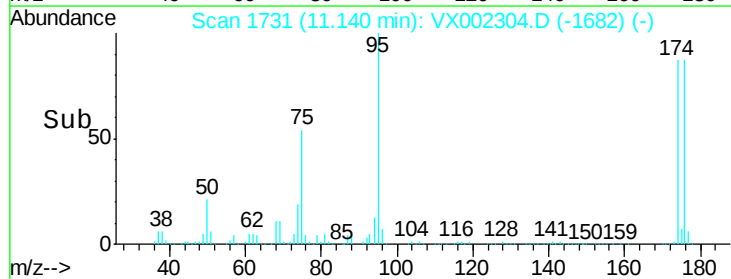
Abundance Ion 94.90 (94.60 to 95.60): VX0

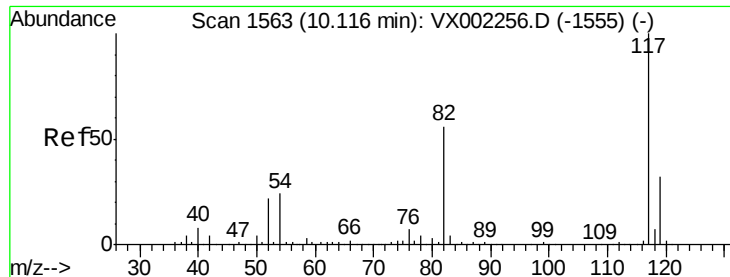
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

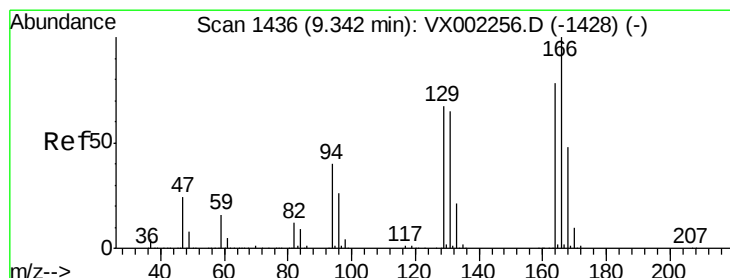
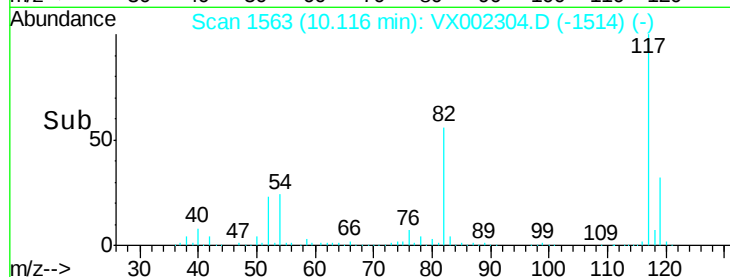
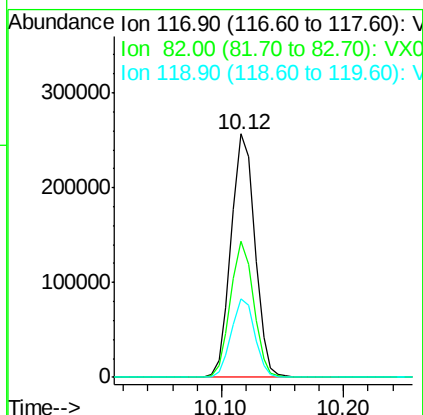
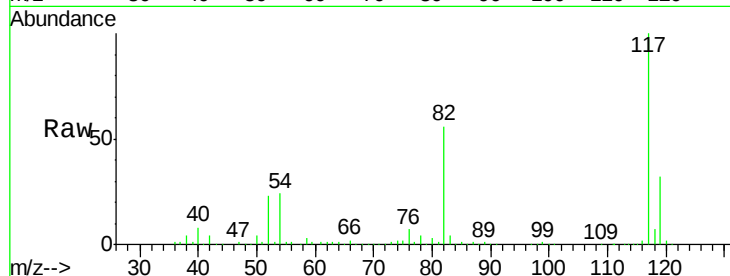




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002304.D
Acq: 05 Jun 2018 14:37

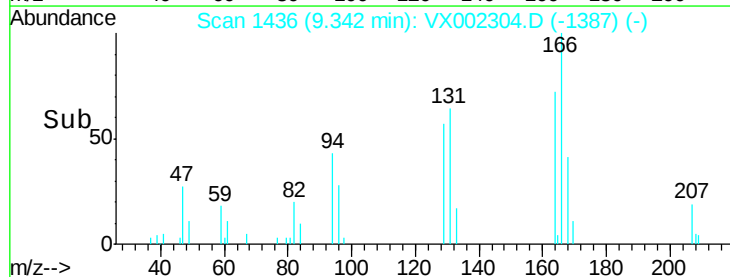
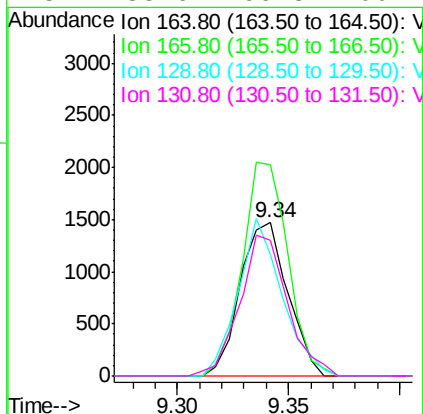
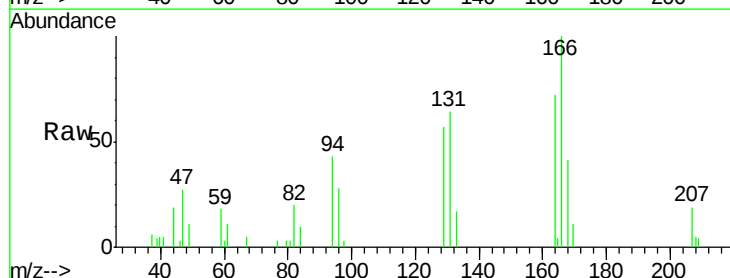
Instrument :
MSVOA_X
ClientSampleId :
SS052MW603-180531

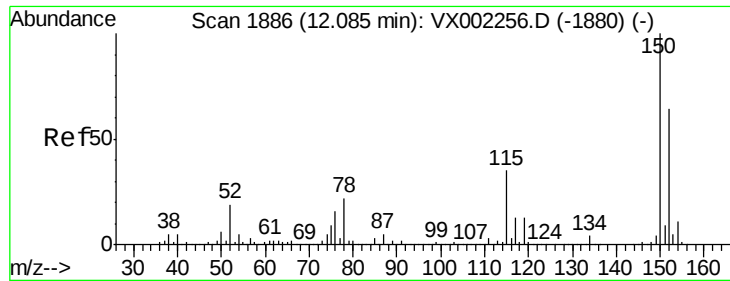
Tot Ion:117 Resp: 345372
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.4
119 32.3 25.8 38.6



#64
Tetrachloroethene
Concen: 0.61 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002304.D
Acq: 05 Jun 2018 14:37

Tgt Ion:164 Resp: 2187
Ion Ratio Lower Upper
164 100
166 138.4 102.9 154.3
129 79.1 68.6 102.8
131 88.6 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

SS052MW603-180531

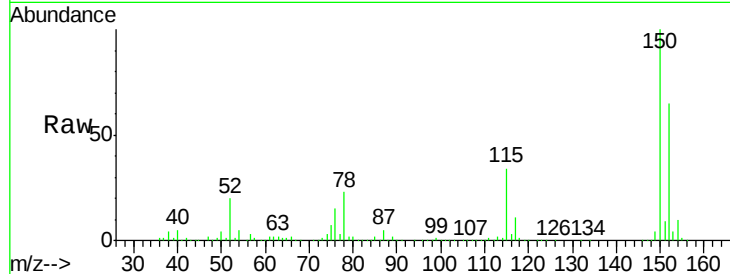
Tot Ion:152 Resp: 194409

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

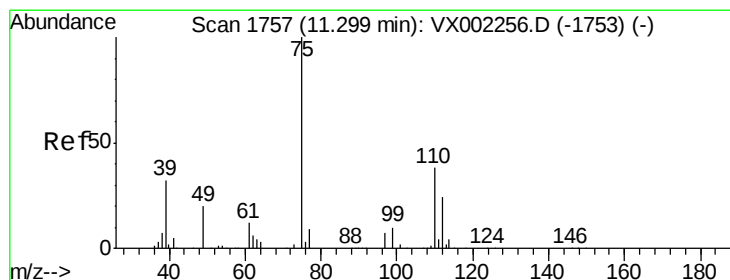
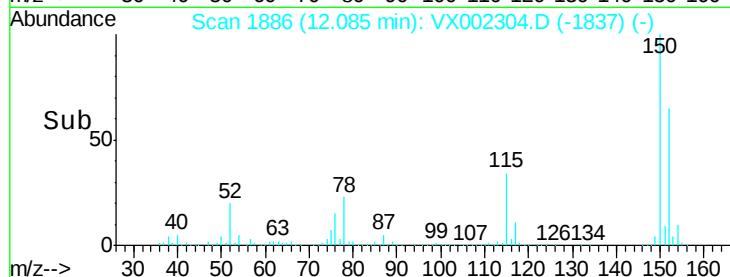
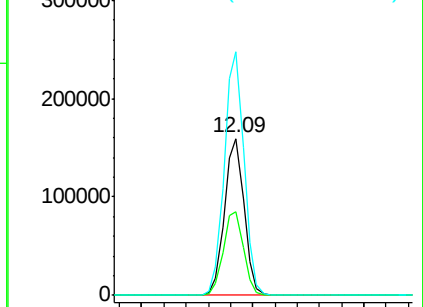
150 156.1 0.0 347.2



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: 24.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002304.D

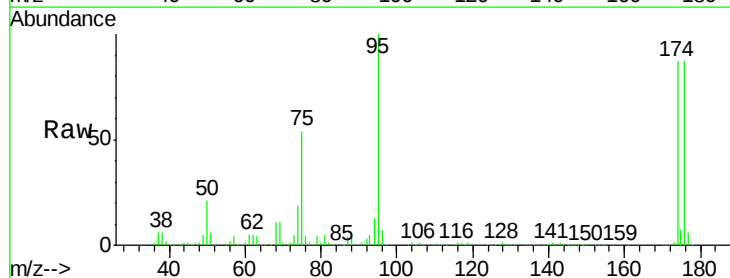
Acq: 05 Jun 2018 14:37

Tgt Ion: 75 Resp: 102578

Ion Ratio Lower Upper

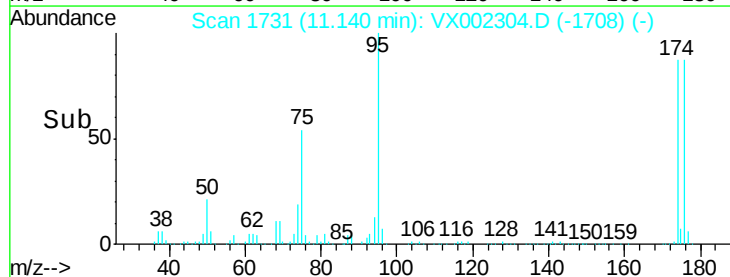
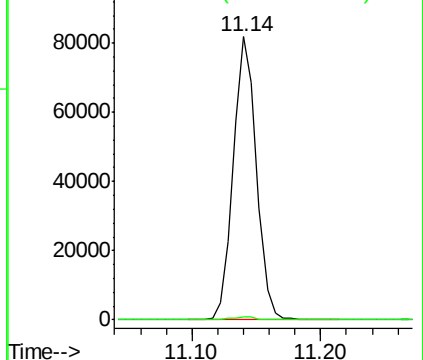
75 100

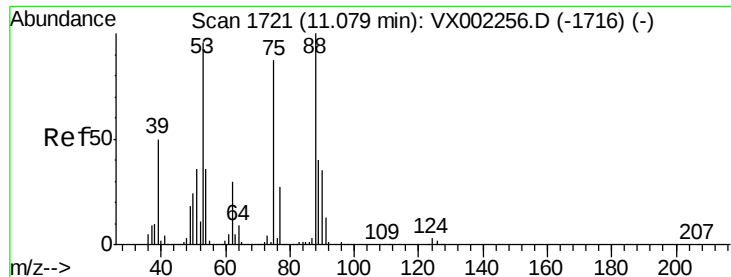
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 84.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002304.D

Acq: 05 Jun 2018 14:37

Instrument :

MSVOA_X

ClientSampleId :

SS052MW603-180531

Tot Ion: 75 Resp: 102578

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

