

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061118\
 Data File : VX002441.D
 Acq On : 11 Jun 2018 14:28
 Operator : JC/MD
 Sample : J3408-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB03-180606

Quant Time: Jun 11 16:52:03 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	222003	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	325474	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	299148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159545	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	174821	55.44	ug/l	0.00
Spiked Amount			Recovery	=	110.88%	
35) Dibromofluoromethane	5.51	113	131854	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	8.72	98	518230	52.82	ug/l	0.00
Spiked Amount			Recovery	=	105.64%	
62) 4-Bromofluorobenzene	11.14	95	179885	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	

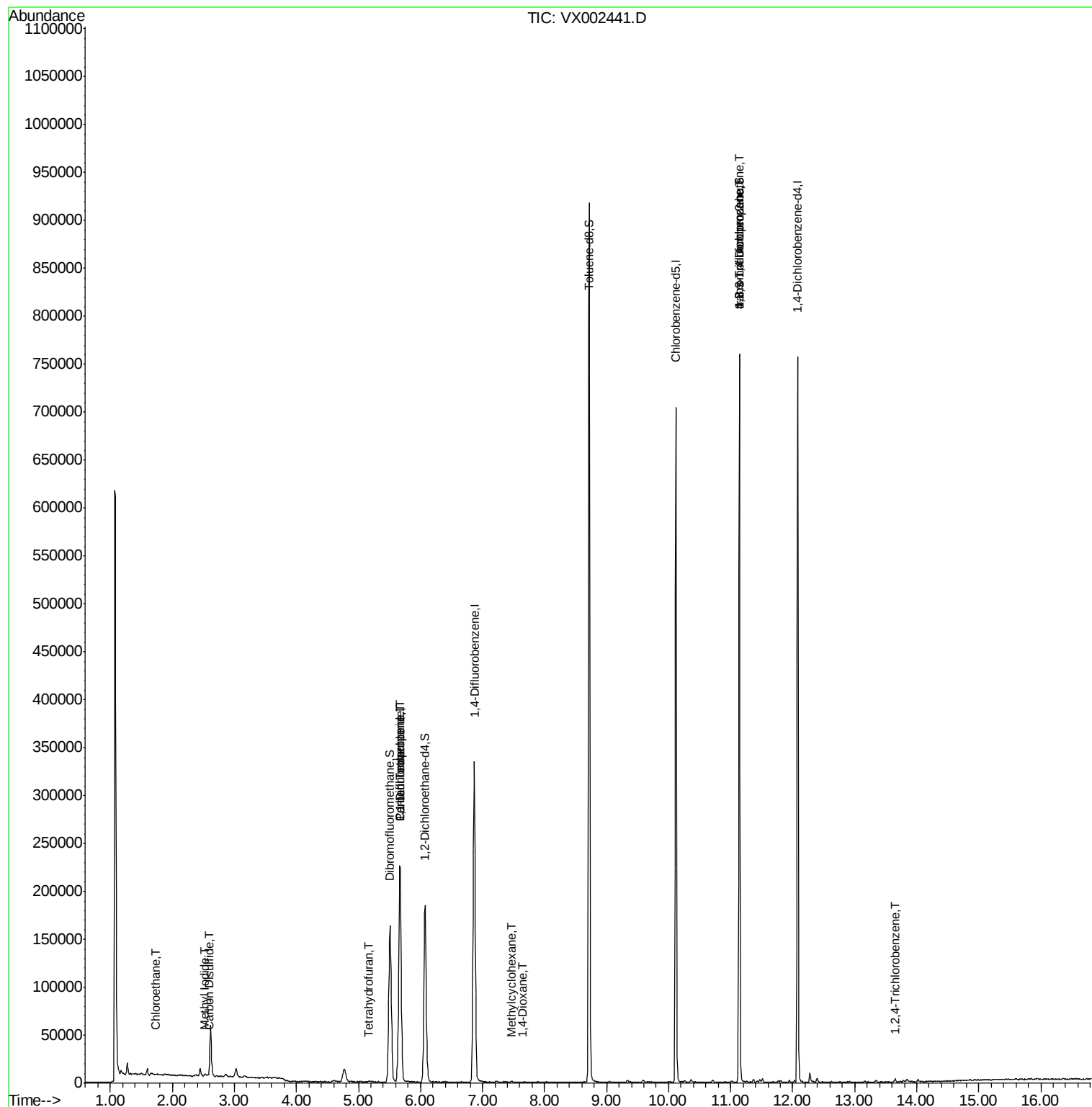
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	714	Below Cal	#	87
5) Bromomethane	1.60	94	179	Below Cal	#	3
6) Chloroethane	1.73	64	3502	1.86	ug/l	43
8) Diethyl Ether	2.19	74	226	Below Cal	#	36
10) Methyl Iodide	2.52	142	2927	0.87	ug/l	95
11) Tert butyl alcohol	3.03	59	5474	Below Cal	#	79
13) Acrolein	2.30	56	404	Below Cal	#	14
15) Acrylonitrile	3.15	53	916	Below Cal		94
16) Acetone	2.45	43	9112	Below Cal		98
17) Carbon Disulfide	2.58	76	1709	0.27	ug/l	99
18) Methyl Acetate	2.78	43	442	Below Cal	#	83
19) Methyl tert-butyl Ether	3.21	73	106	Below Cal	#	1
20) Methylene Chloride	2.86	84	1032	Below Cal	#	70
22) Diisopropyl ether	3.89	45	256	Below Cal	#	35
28) Bromochloromethane	5.01	49	58	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	513	0.37	ug/l	50
36) 1,1-Dichloropropene	5.67	75	15964	4.67	ug/l	52
38) Carbon Tetrachloride	5.67	117	20893	5.84	ug/l	15
39) Methylcyclohexane	7.47	83	348	0.34	ug/l	60
49) 1,4-Dioxane	7.65	88	20	0.30	ug/l	22
76) 1,2,3-Trichloropropane	11.14	75	97284	27.79	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	97284	97.41	ug/l	7
93) 1,2,4-Trichlorobenzene	13.66	180	881	0.22	ug/l	93

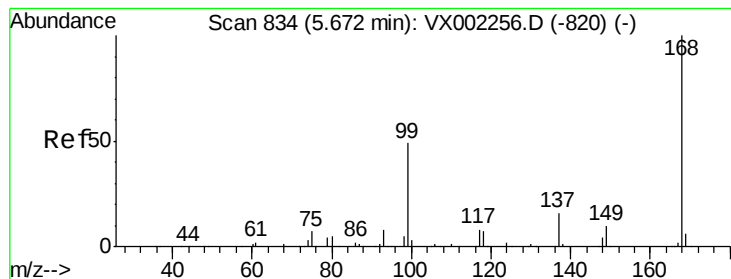
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 11 16:52:03 2018
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Quant Title : SW846 8260
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: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

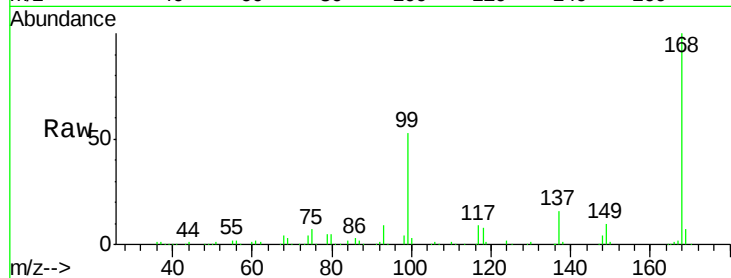
Z5TB03-180606

Tot Ion:168 Resp: 222003

Ion Ratio Lower Upper

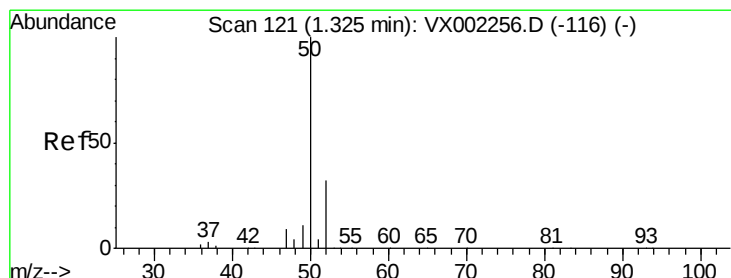
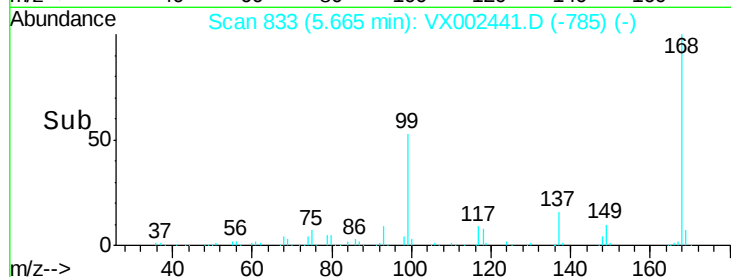
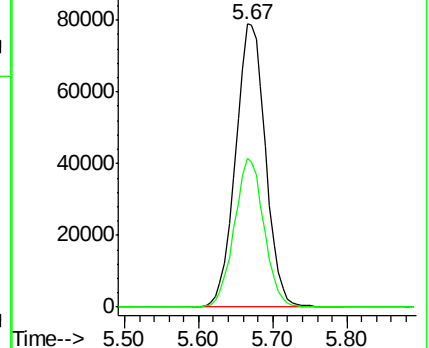
168 100

99 52.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002441.D

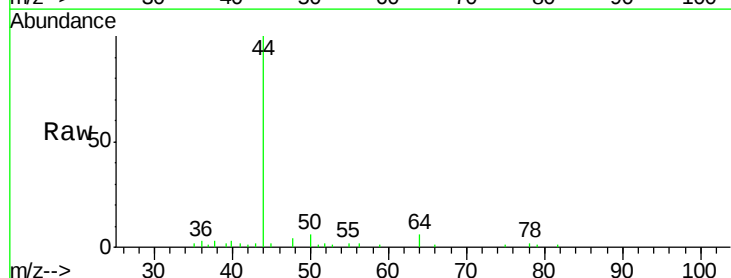
Acq: 11 Jun 2018 14:28

Tgt Ion: 50 Resp: 714

Ion Ratio Lower Upper

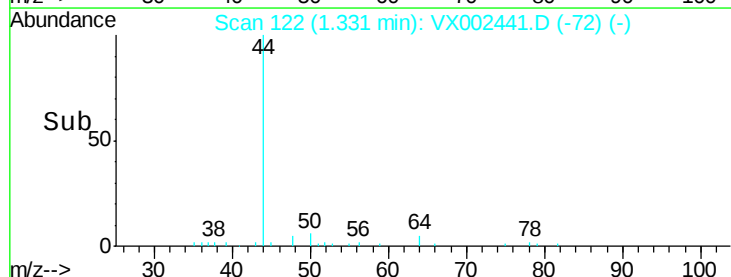
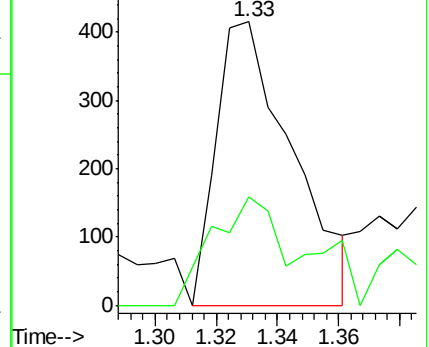
50 100

52 25.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

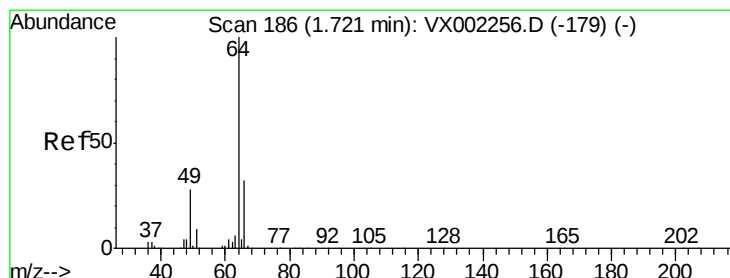
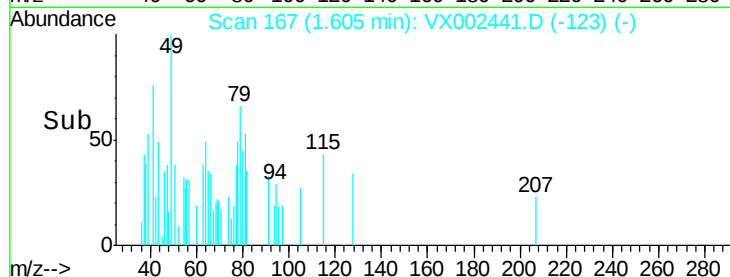
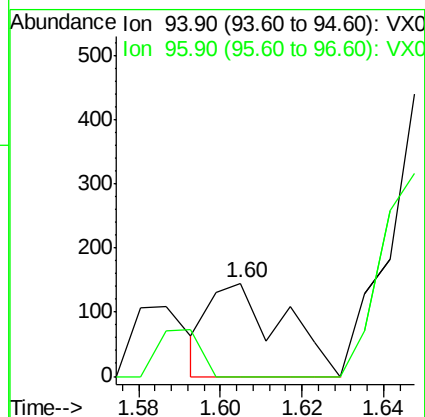
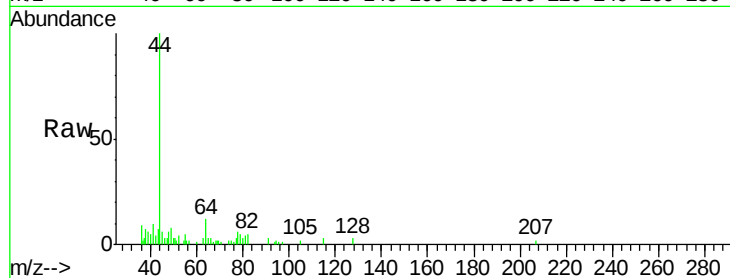
Z5TB03-180606

Tot Ion: 94 Resp: 179

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#6

Chloroethane

Concen: 1.86 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX002441.D

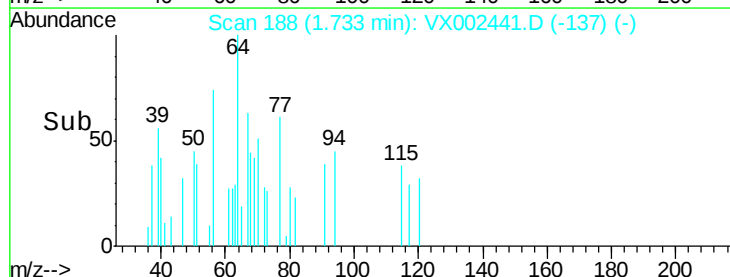
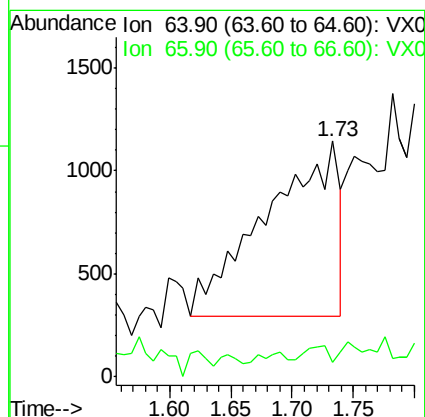
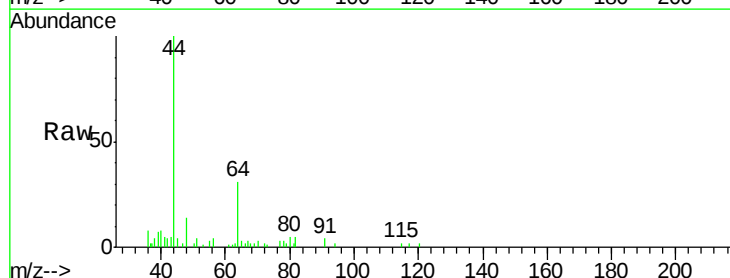
Acq: 11 Jun 2018 14:28

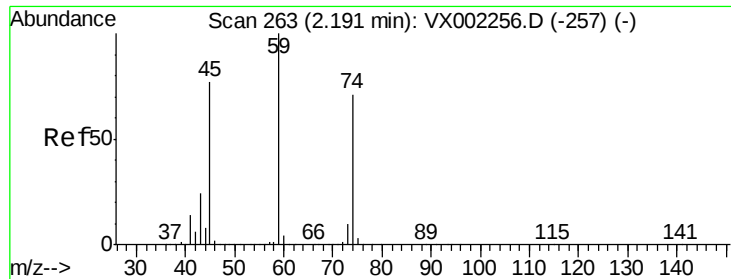
Tgt Ion: 64 Resp: 3502

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

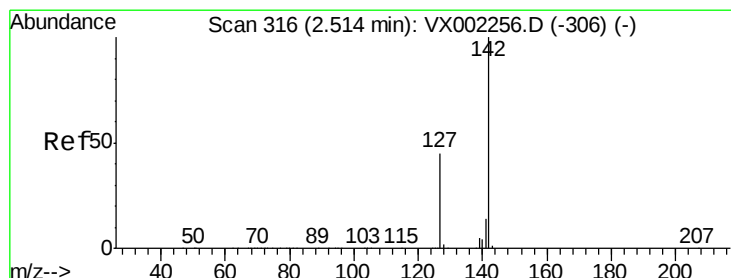
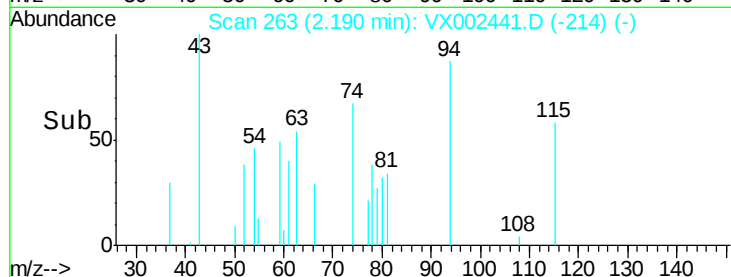
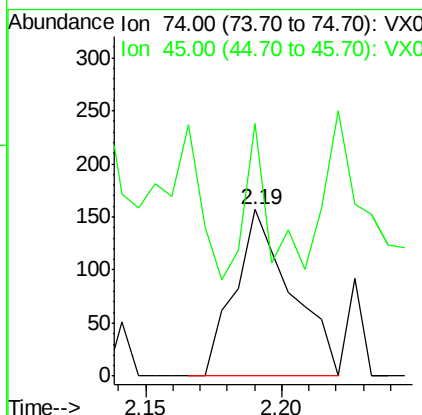
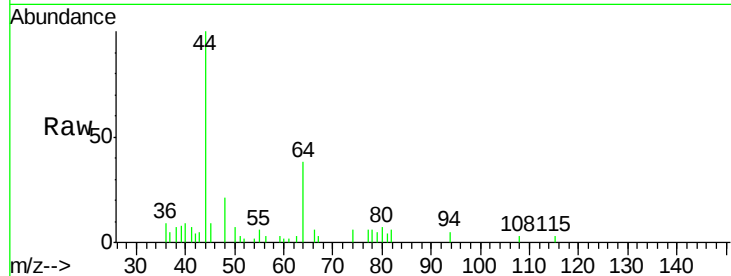




#8
 Diethyl Ether
 Concen: Below Cal
 RT: 2.19 min Scan# 263
 Delta R.T. 0.00 min
 Lab File: VX002441.D
 Acq: 11 Jun 2018 14:28

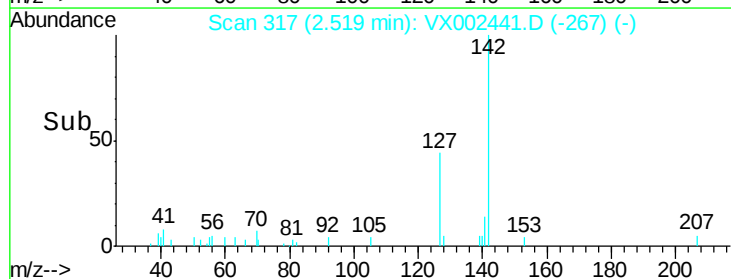
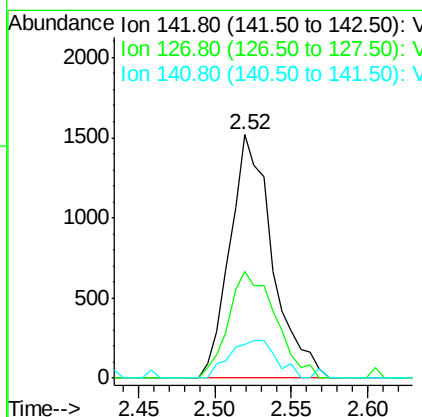
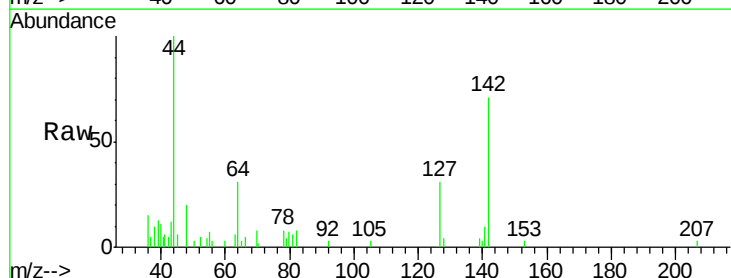
Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB03-180606

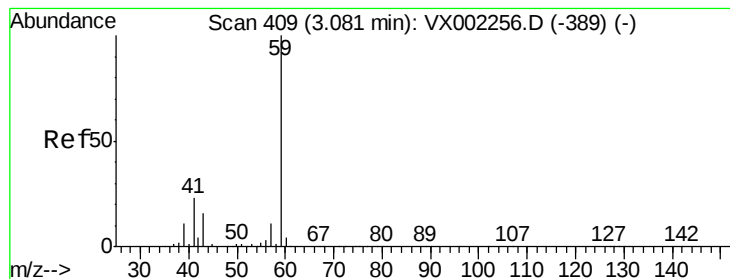
Tot Ion: 74 Resp: 226
 Ion Ratio Lower Upper
 74 100
 45 39.8 53.1 159.4#



#10
 Methyl Iodide
 Concen: 0.87 ug/l
 RT: 2.52 min Scan# 317
 Delta R.T. 0.01 min
 Lab File: VX002441.D
 Acq: 11 Jun 2018 14:28

Tgt Ion: 142 Resp: 2927
 Ion Ratio Lower Upper
 142 100
 127 48.4 36.6 55.0
 141 17.0 11.3 16.9#



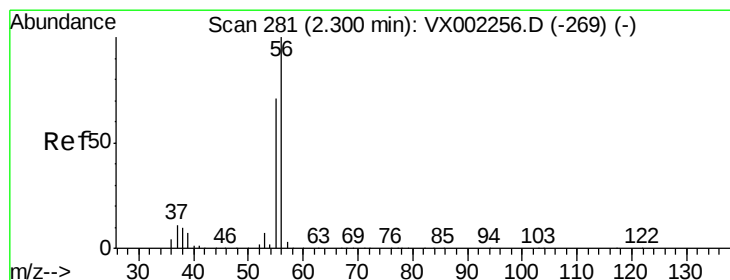
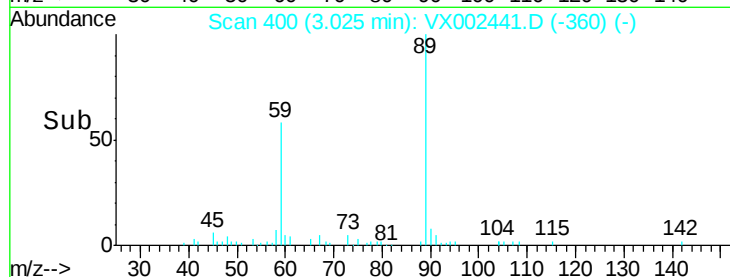
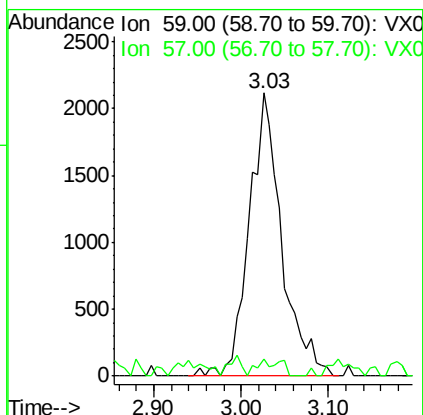
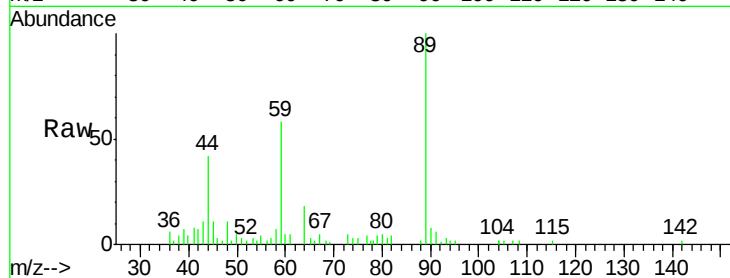


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002441.D
Acq: 11 Jun 2018 14:28

Instrument :
MSVOA_X
ClientSampleId :
Z5TB03-180606

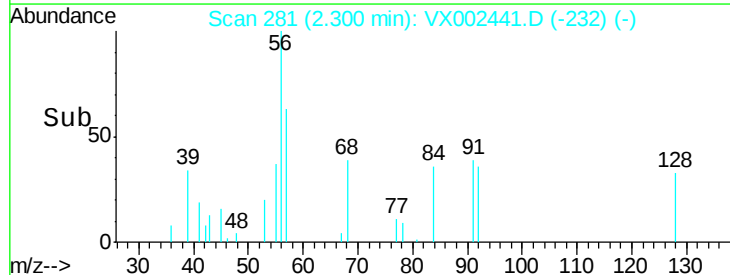
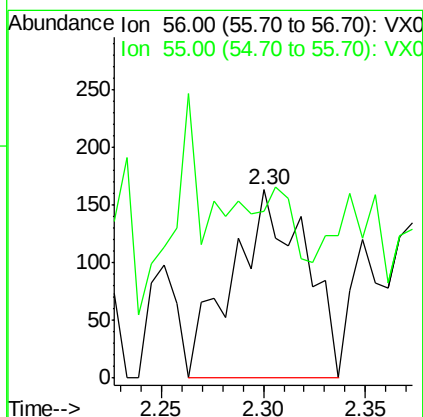
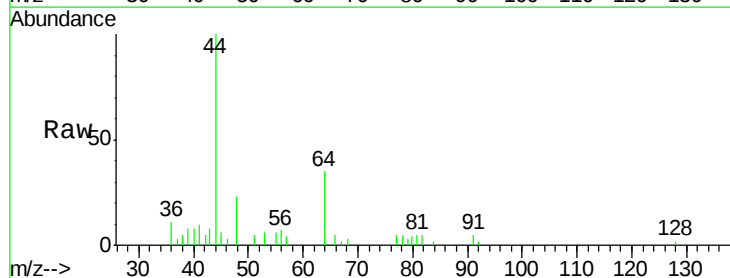
Tot Ion: 59 Resp: 5474
Ion Ratio Lower Upper
59 100
57 2.3 8.2 12.2#

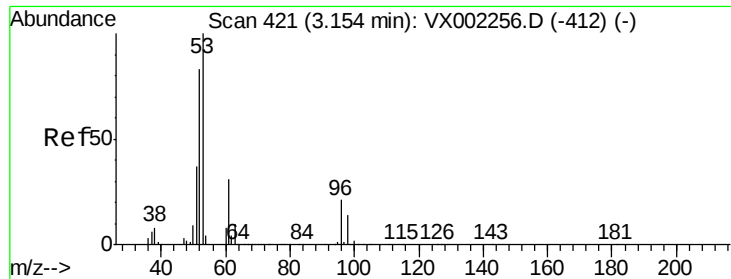


#13

Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. -0.00 min
Lab File: VX002441.D
Acq: 11 Jun 2018 14:28

Tgt Ion: 56 Resp: 404
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

Z5TB03-180606

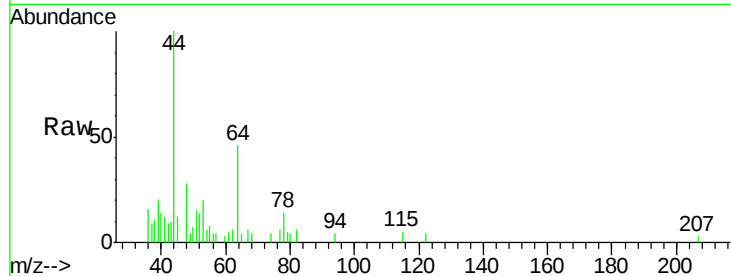
Tot Ion: 53 Resp: 916

Ion Ratio Lower Upper

53 100

52 78.6 66.7 100.1

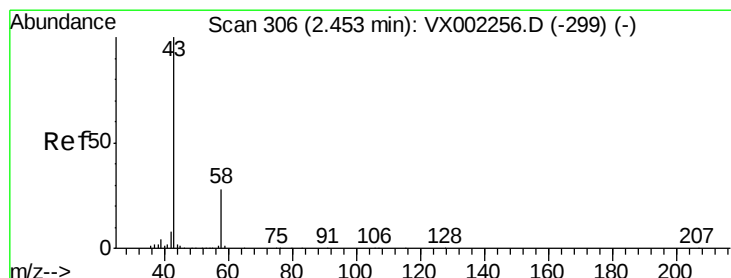
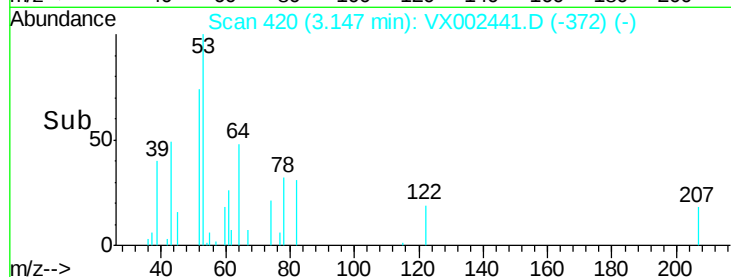
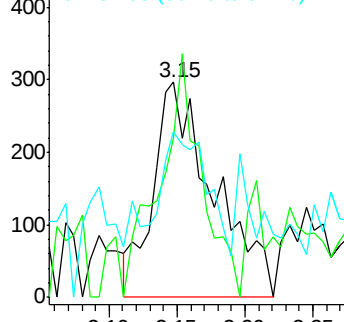
51 41.3 29.9 44.9



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: VX002441.D

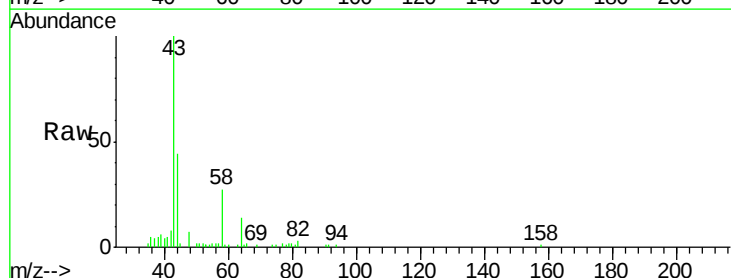
Acq: 11 Jun 2018 14:28

Tgt Ion: 43 Resp: 9112

Ion Ratio Lower Upper

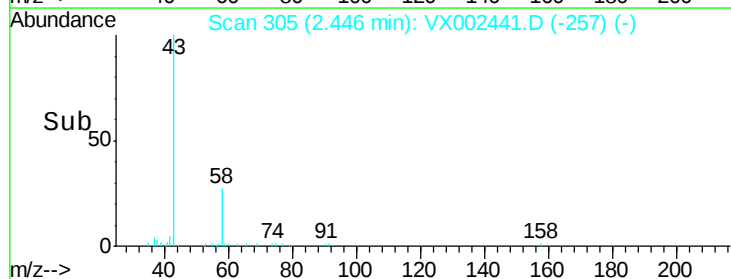
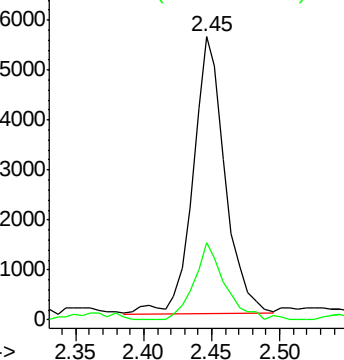
43 100

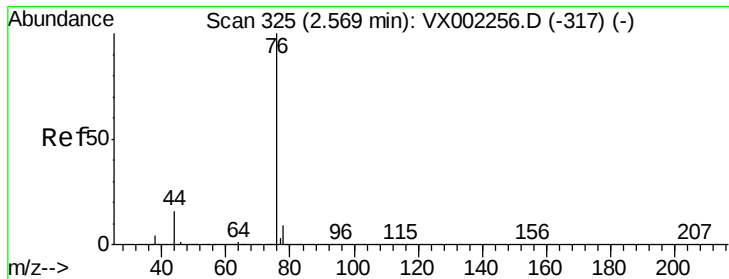
58 26.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

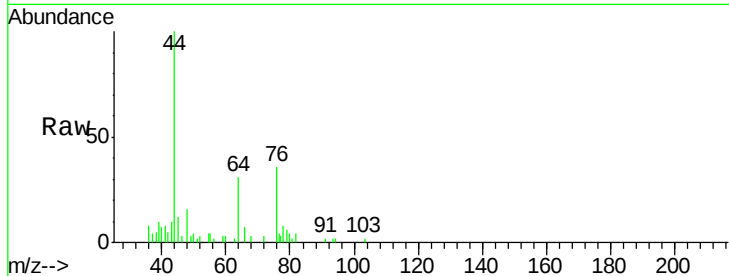
Z5TB03-180606

Tot Ion: 76 Resp: 1709

Ion Ratio Lower Upper

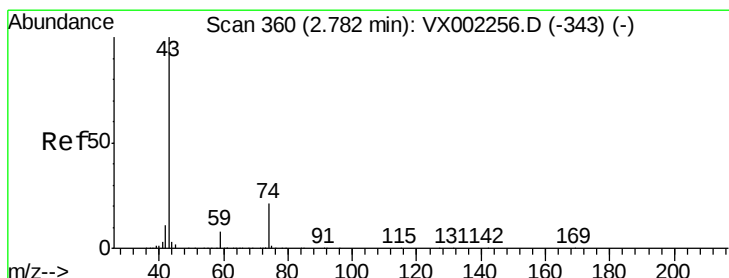
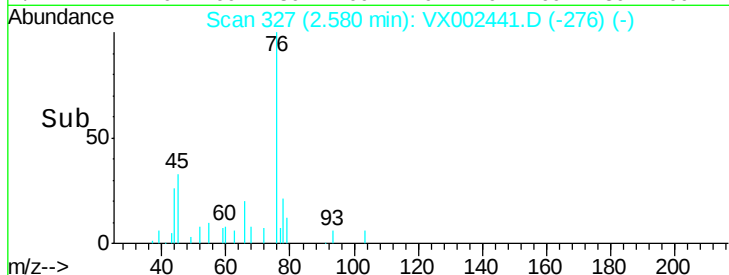
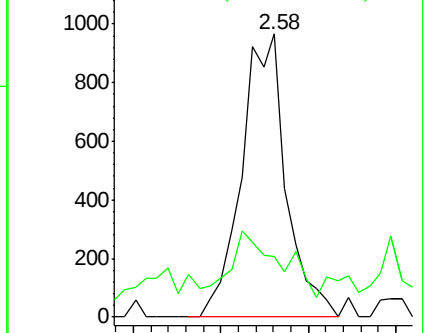
76 100

78 8.4 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX002441.D

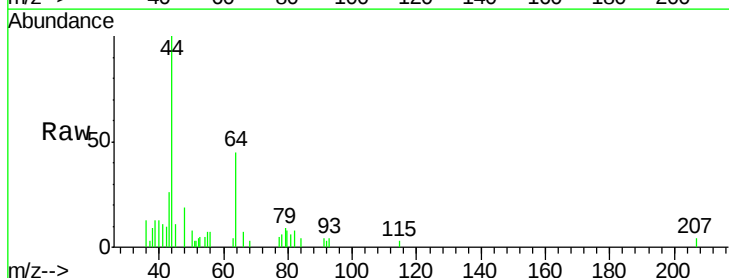
Acq: 11 Jun 2018 14:28

Tgt Ion: 43 Resp: 442

Ion Ratio Lower Upper

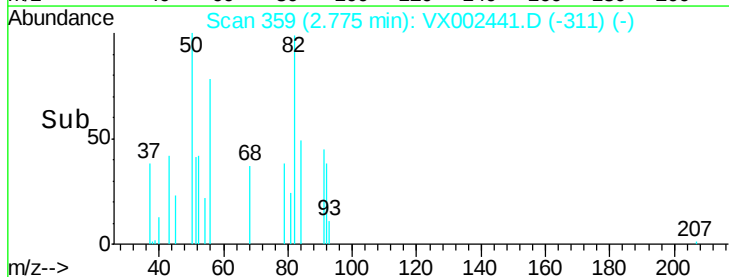
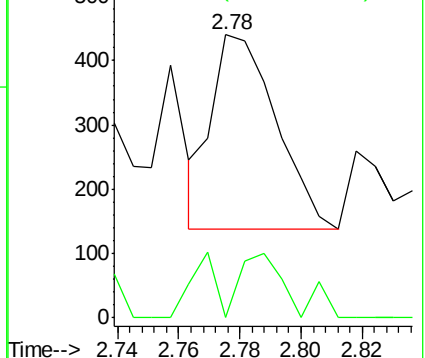
43 100

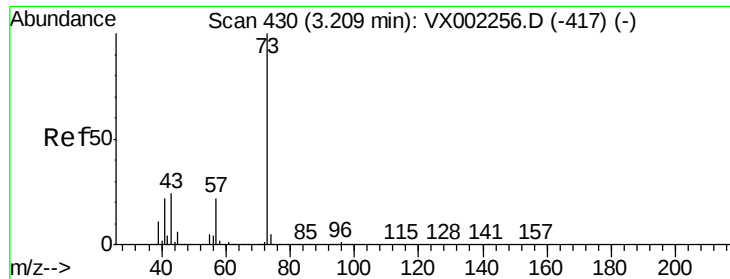
74 12.9 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

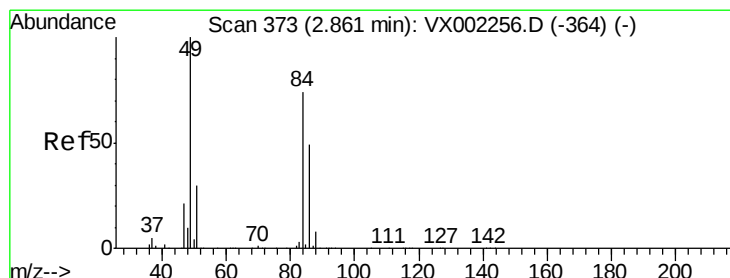
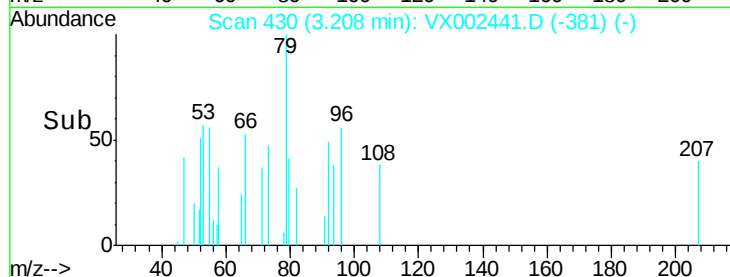
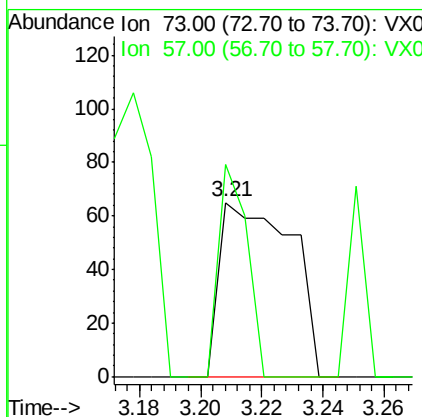
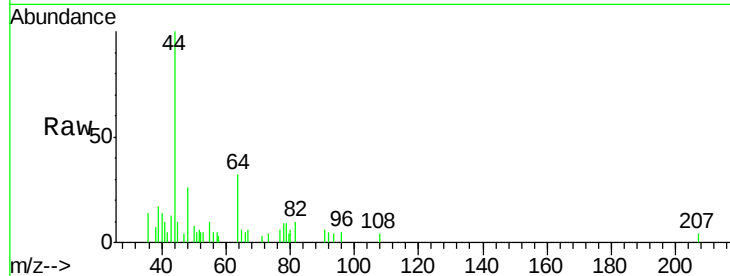




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002441.D
Acq: 11 Jun 2018 14:28

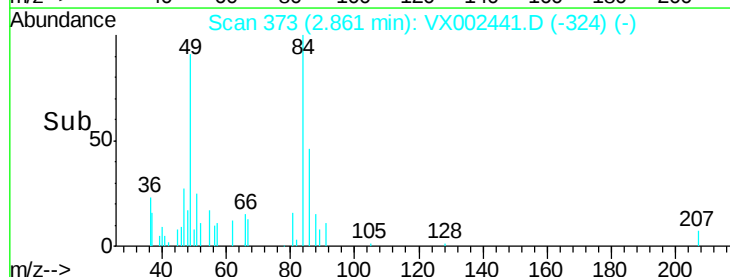
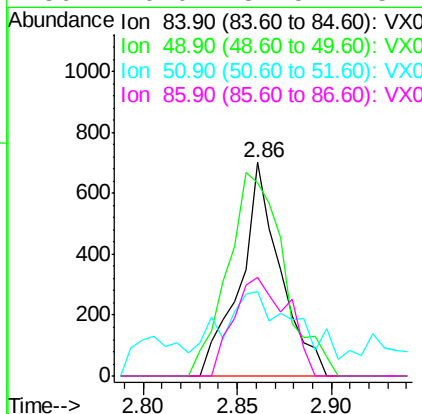
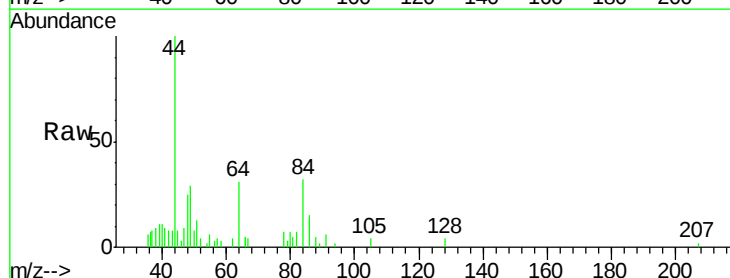
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Z5TB03-180606

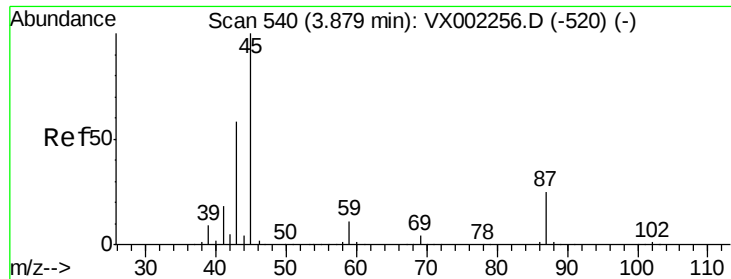
Tot Ion: 73 Resp: 106
Ion Ratio Lower Upper
73 100
57 121.5 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002441.D
Acq: 11 Jun 2018 14:28

Tgt Ion: 84 Resp: 1032
Ion Ratio Lower Upper
84 100
49 90.7 107.8 161.6#
51 31.6 32.8 49.2#
86 46.0 52.5 78.7#

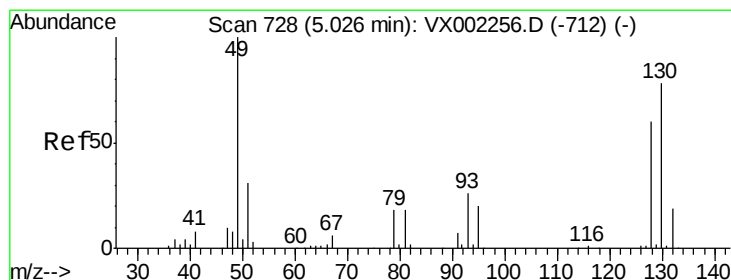
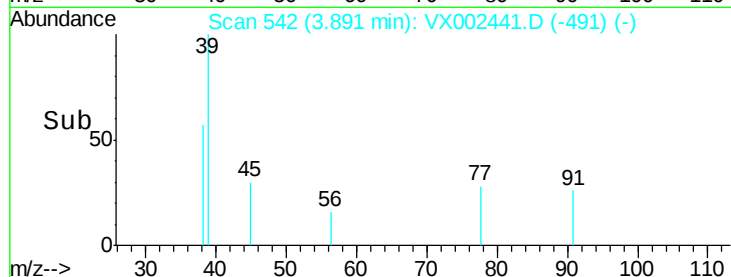
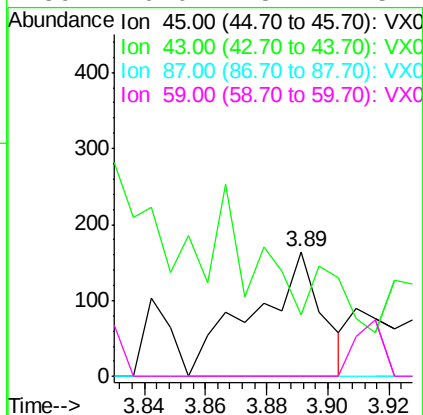
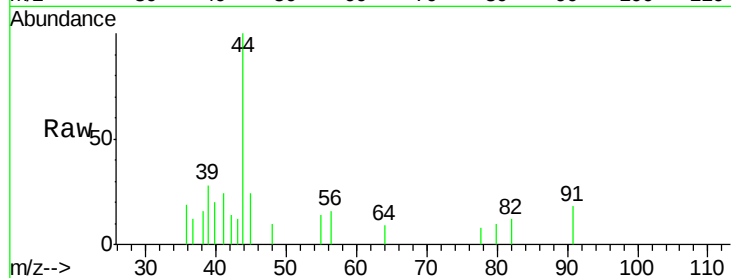




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002441.D
Acq: 11 Jun 2018 14:28

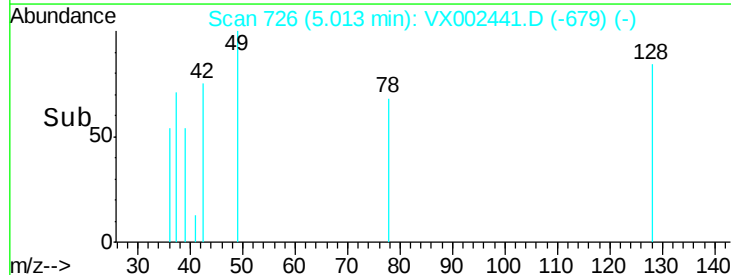
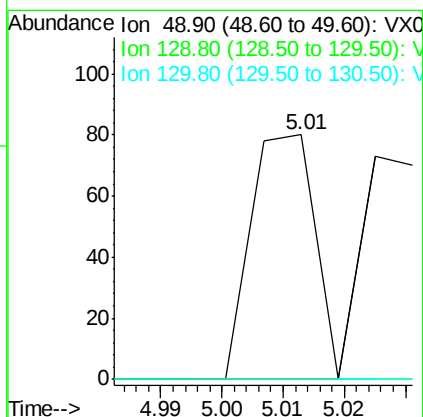
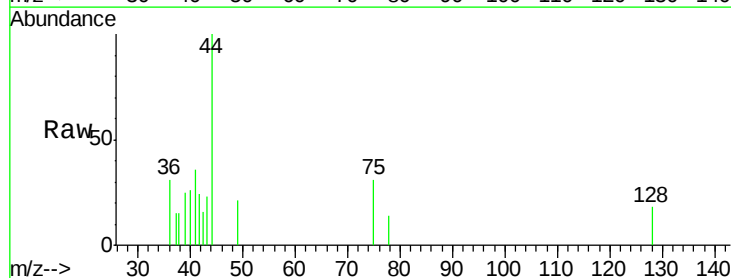
Instrument :
MSVOA_X
ClientSampleId :
Z5TB03-180606

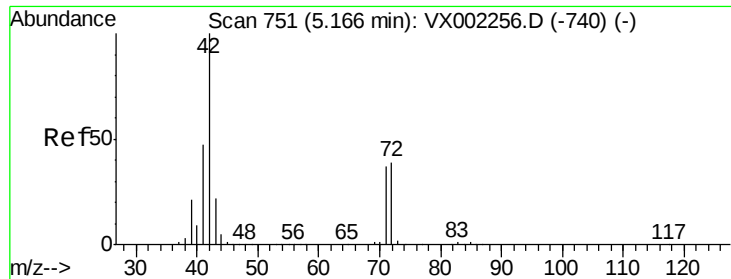
Tot Ion:	45	Resp:	256
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 726
Delta R.T. -0.01 min
Lab File: VX002441.D
Acq: 11 Jun 2018 14:28

Tgt Ion:	49	Resp:	58
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#





#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

Z5TB03-180606

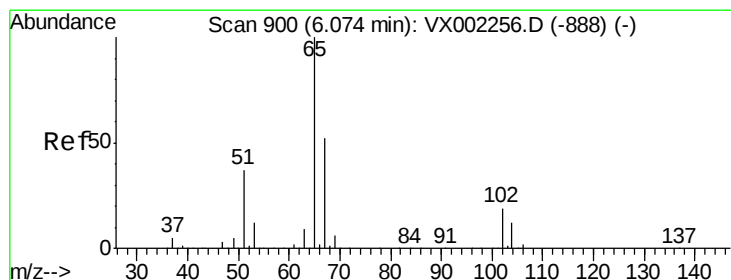
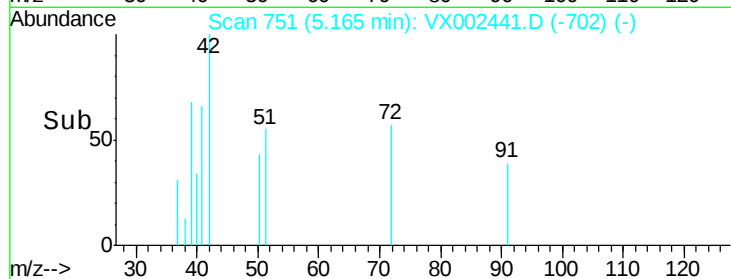
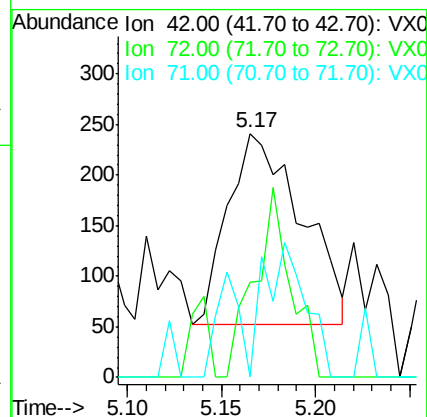
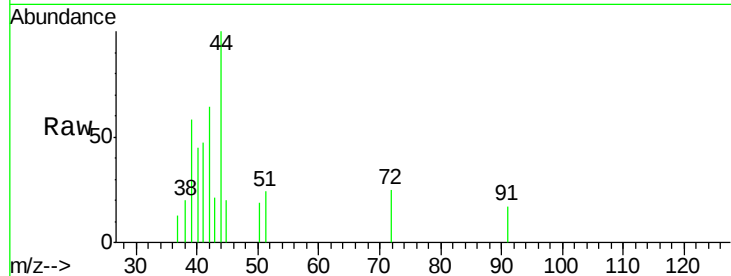
Tot Ion: 42 Resp: 513

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 16.8 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 55.44 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002441.D

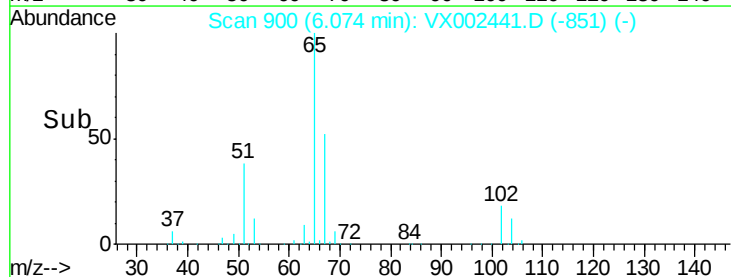
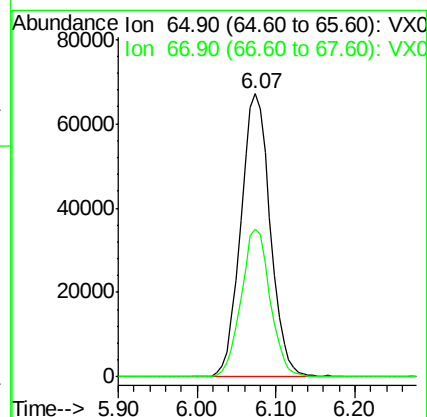
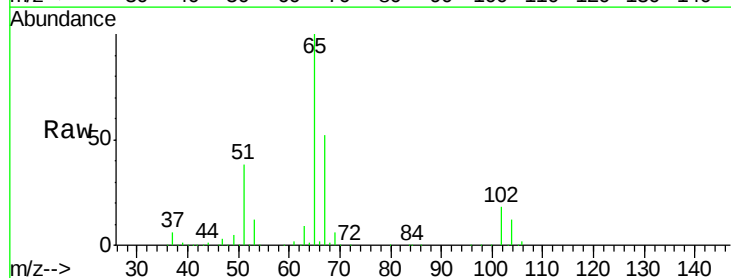
Acq: 11 Jun 2018 14:28

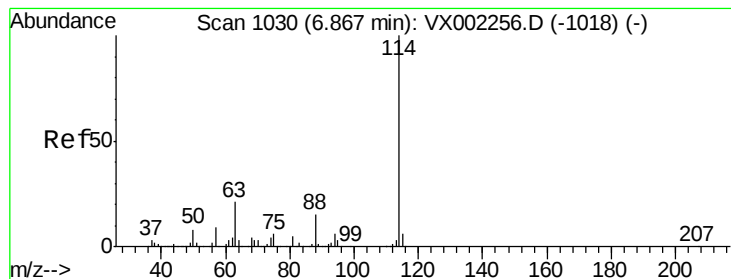
Tgt Ion: 65 Resp: 174821

Ion Ratio Lower Upper

65 100

67 51.7 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: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

Z5TB03-180606

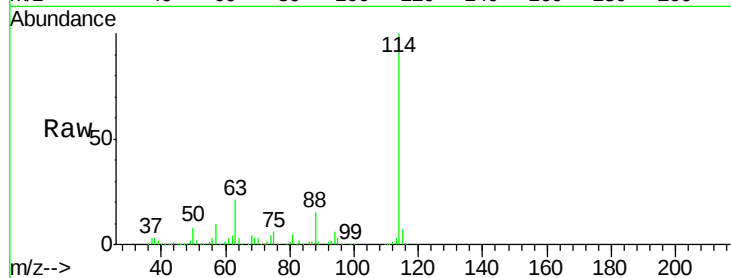
Tot Ion:114 Resp: 325474

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

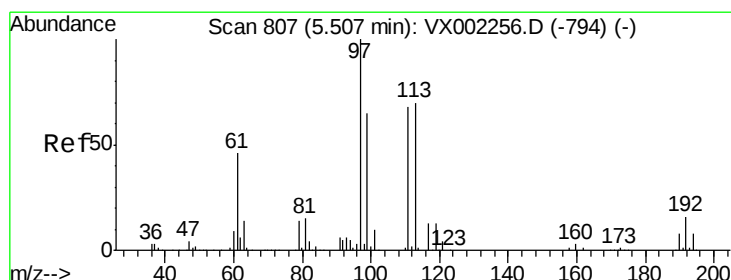
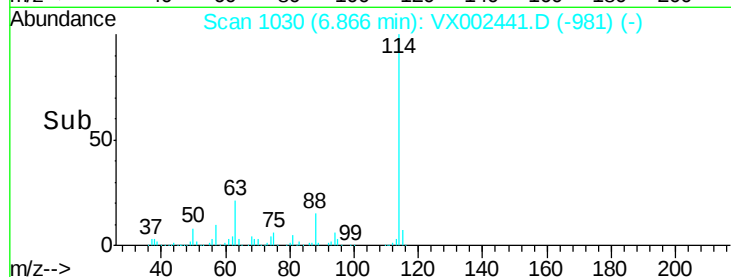
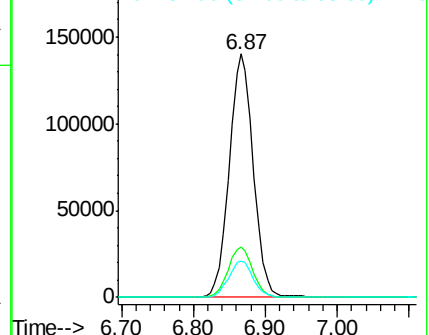
88 15.0 0.0 30.0



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: 51.51 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

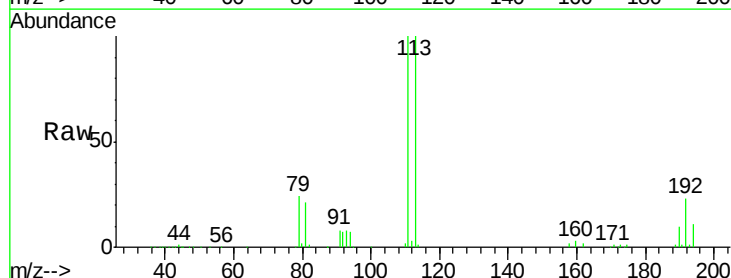
Tgt Ion:113 Resp: 131854

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

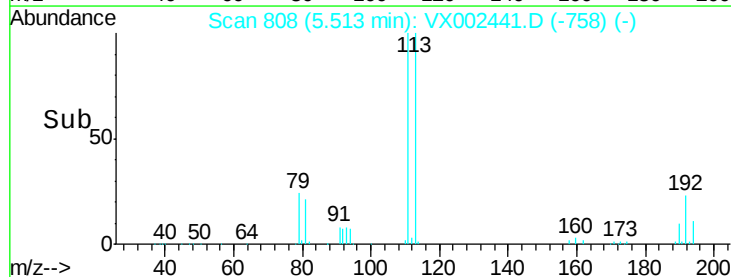
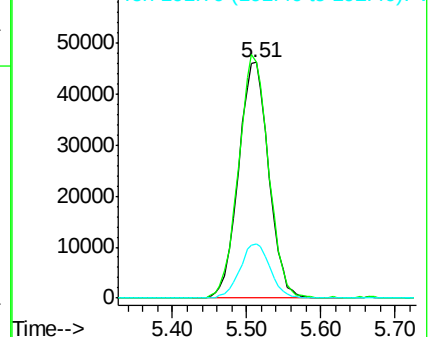
192 23.0 19.1 28.7

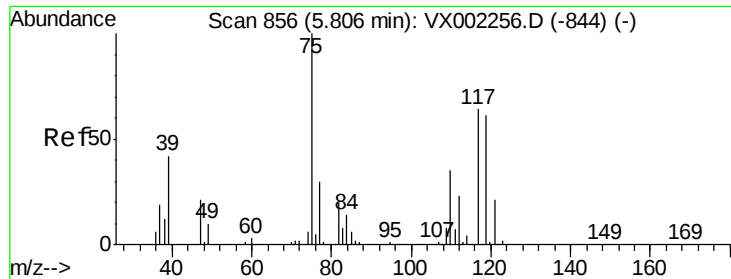


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

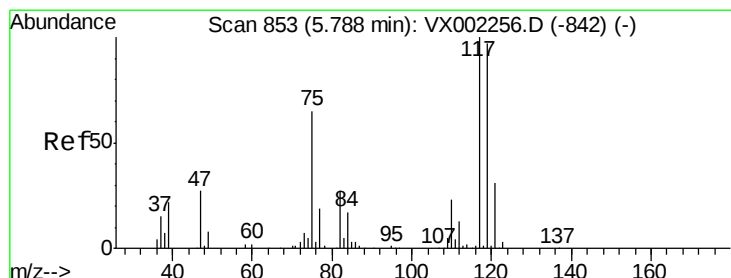
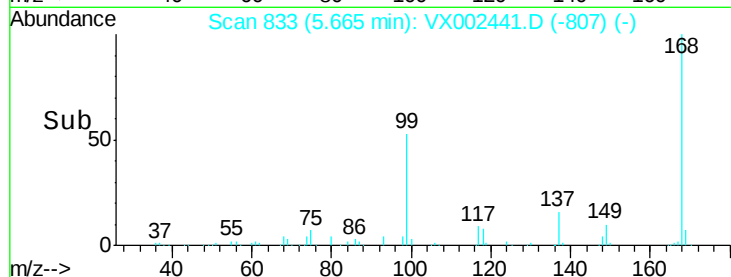
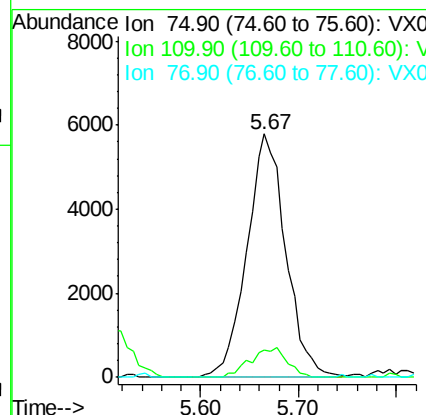
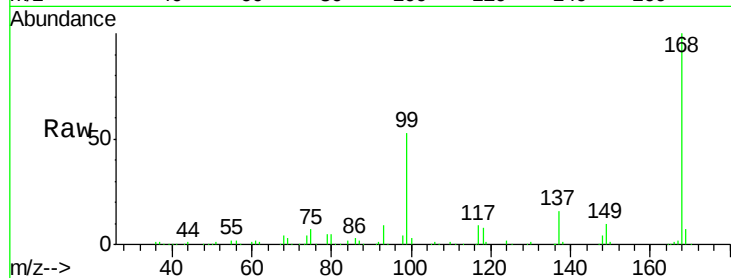




#36
 1,1-Dichloropropene
 Concen: 4.67 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002441.D
 Acq: 11 Jun 2018 14:28

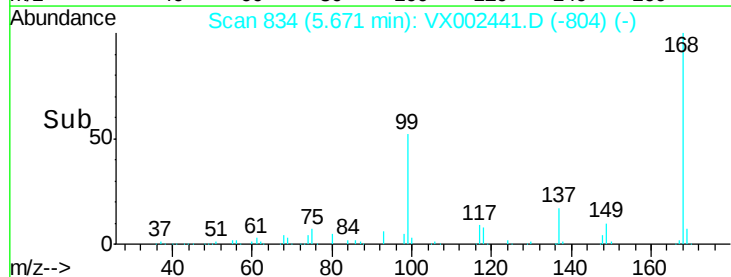
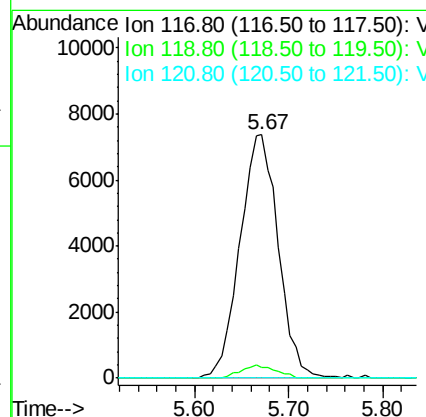
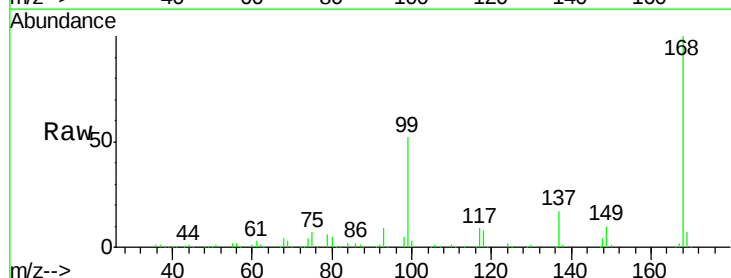
Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB03-180606

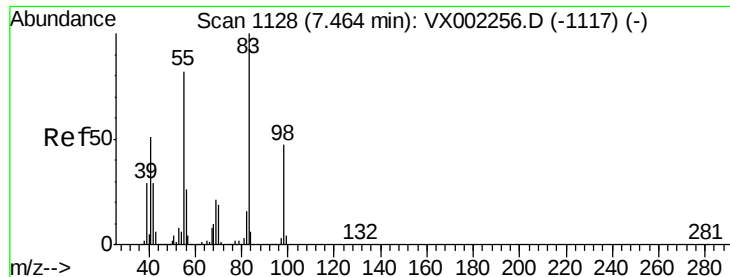
Tot Ion: 75 Resp: 15964
 Ion Ratio Lower Upper
 75 100
 110 11.6 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.84 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002441.D
 Acq: 11 Jun 2018 14:28

Tgt Ion: 117 Resp: 20893
 Ion Ratio Lower Upper
 117 100
 119 4.1 77.4 116.0#
 121 0.0 24.4 36.6#





#39

Methylcyclohexane

Concen: 0.34 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

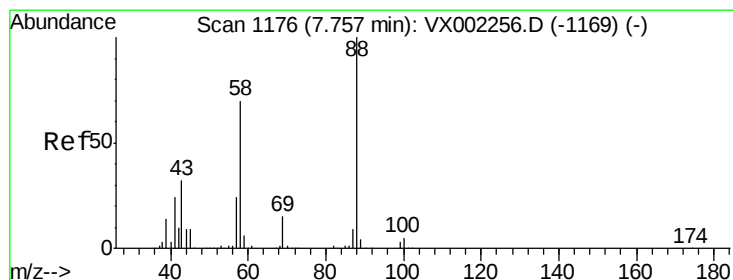
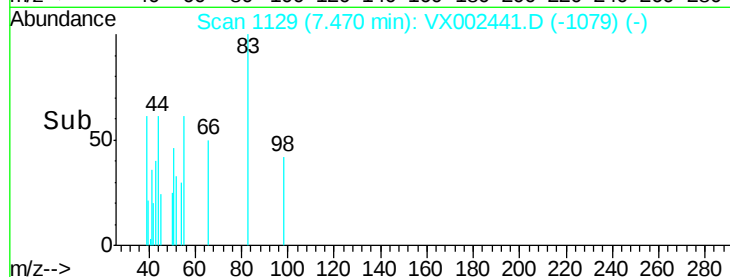
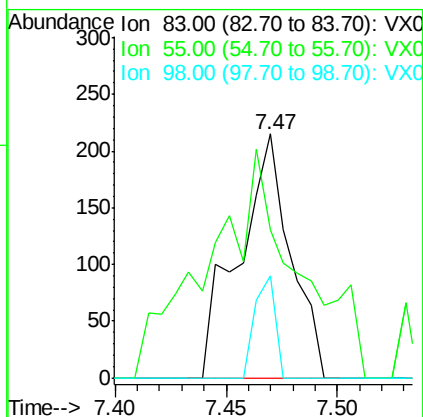
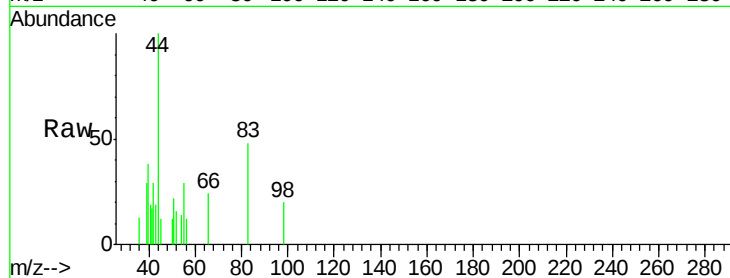
MSVOA_X

ClientSampleId :

Z5TB03-180606

Tot Ion: 83 Resp: 348

Ion	Ratio	Lower	Upper
83	100		
55	28.8	65.4	98.0#
98	41.9	37.4	56.0



#49

1,4-Dioxane

Concen: 0.30 ug/l

RT: 7.65 min Scan# 1158

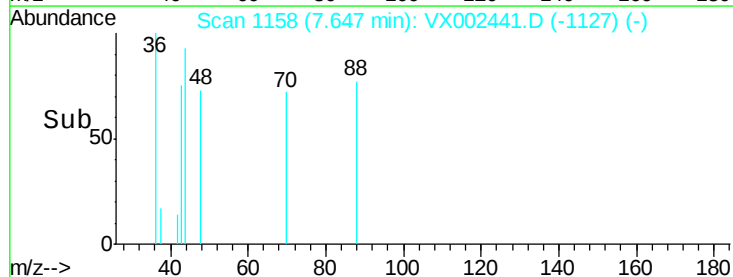
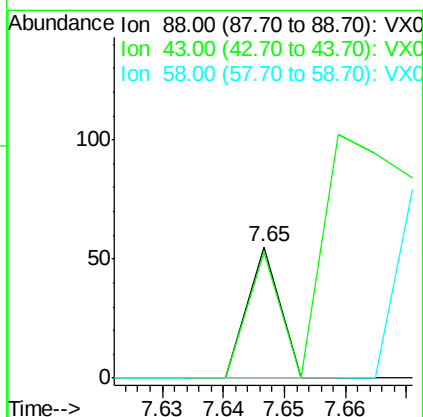
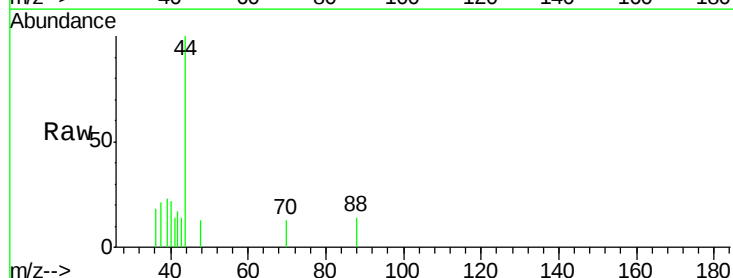
Delta R.T. -0.11 min

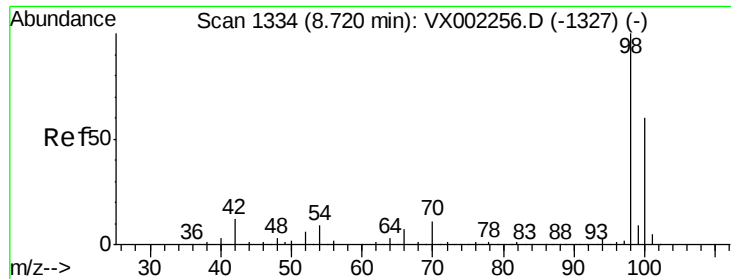
Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Tgt Ion: 88 Resp: 20

Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.8	44.6#
58	0.0	57.1	85.7#





#50

Toluene-d8

Concen: 52.82 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

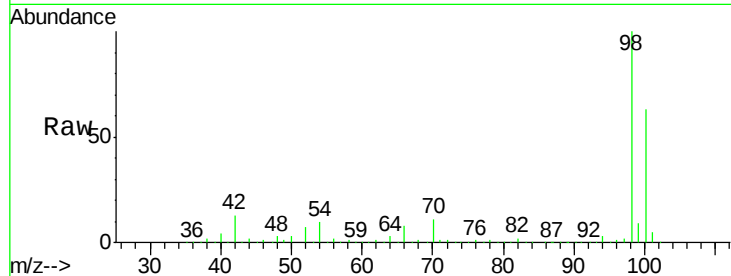
Z5TB03-180606

Tot Ion: 98 Resp: 518230

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

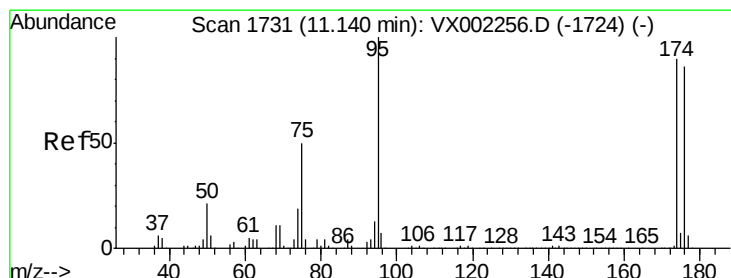
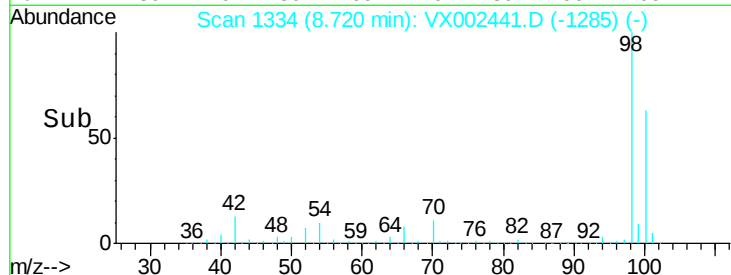
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

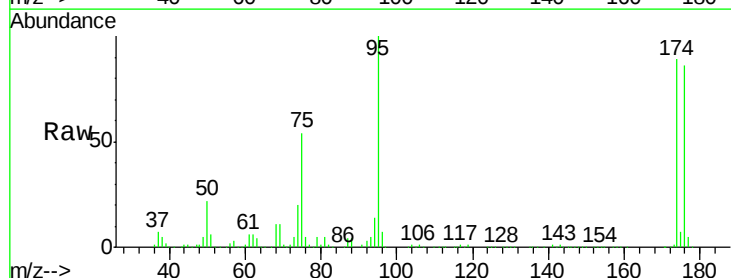
Tgt Ion: 95 Resp: 179885

Ion Ratio Lower Upper

95 100

174 92.2 0.0 187.4

176 90.0 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

11.14

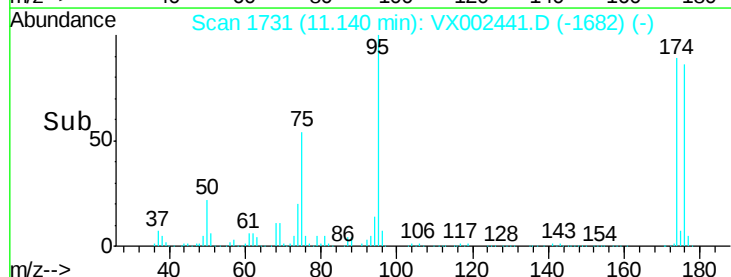
150000

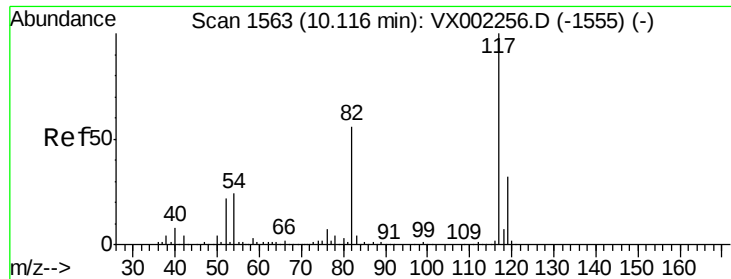
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

Z5TB03-180606

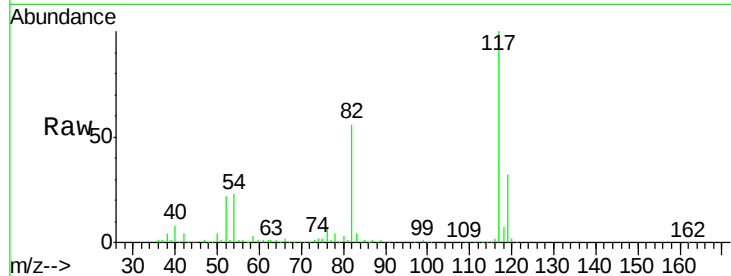
Tot Ion:117 Resp: 299148

Ion Ratio Lower Upper

117 100

82 55.9 45.0 67.4

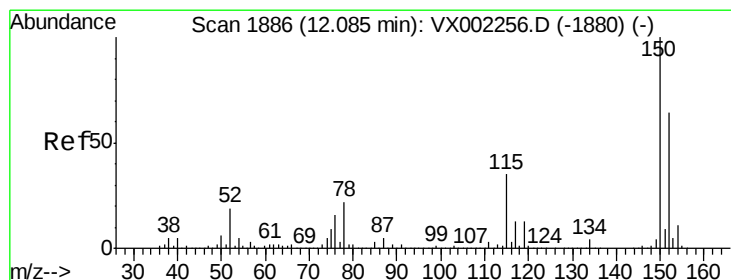
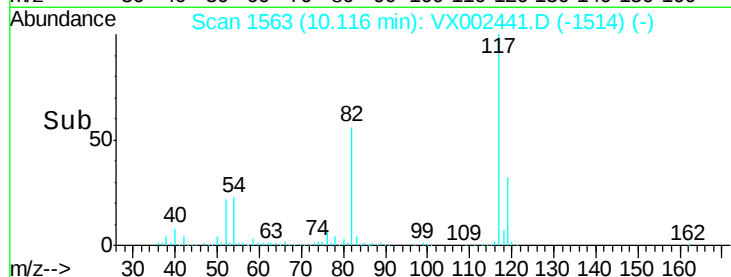
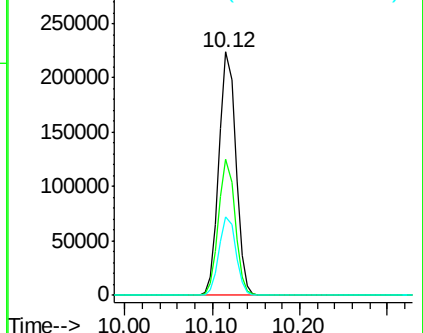
119 32.4 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

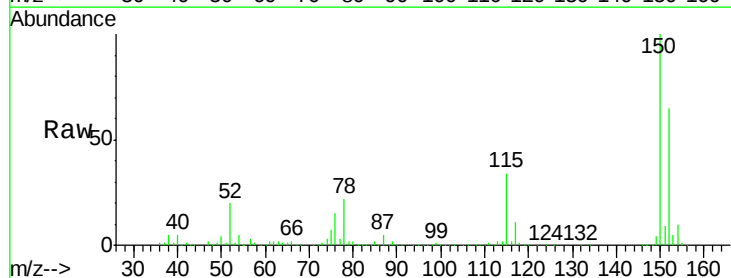
Tgt Ion:152 Resp: 159545

Ion Ratio Lower Upper

152 100

115 55.9 40.1 120.2

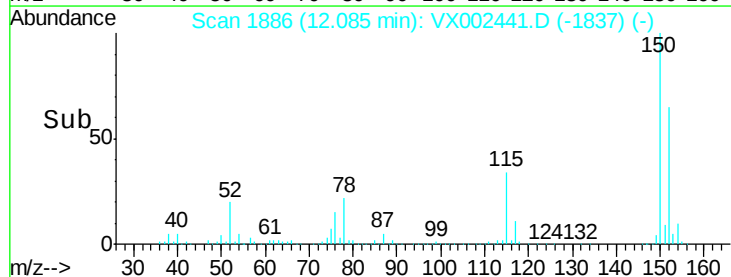
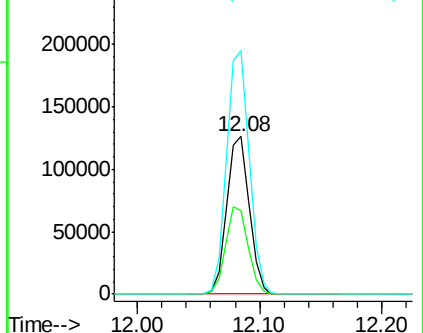
150 156.4 0.0 347.2

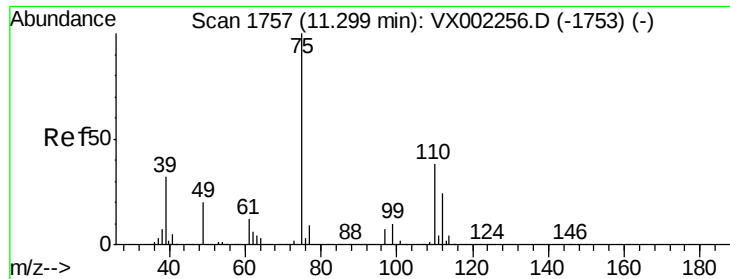


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

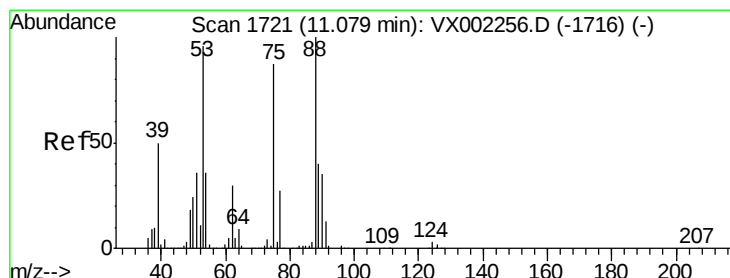
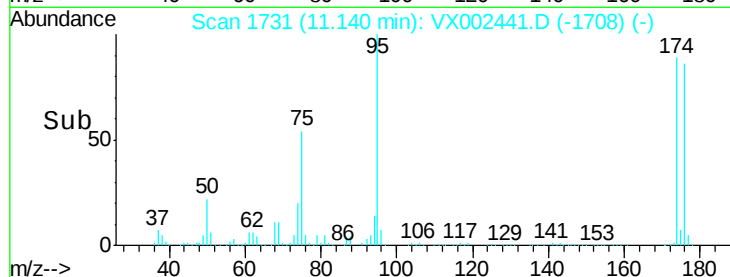
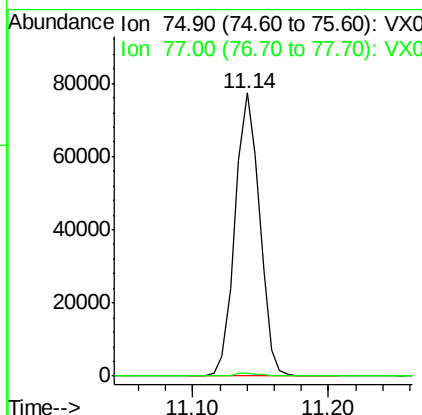
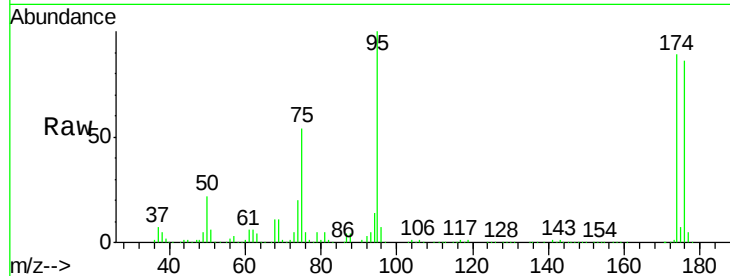




#76
 1,2,3-Trichloropropane
 Concen: 27.79 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002441.D
 Acq: 11 Jun 2018 14:28

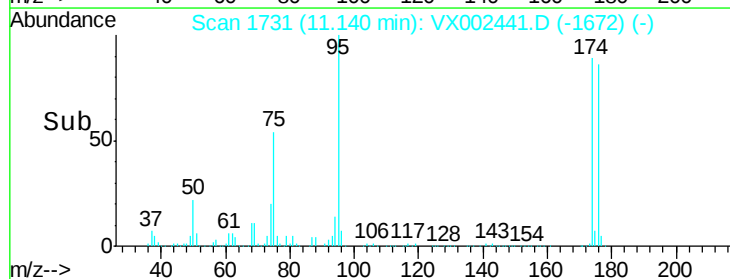
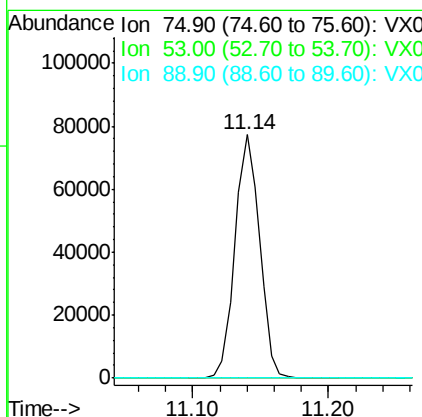
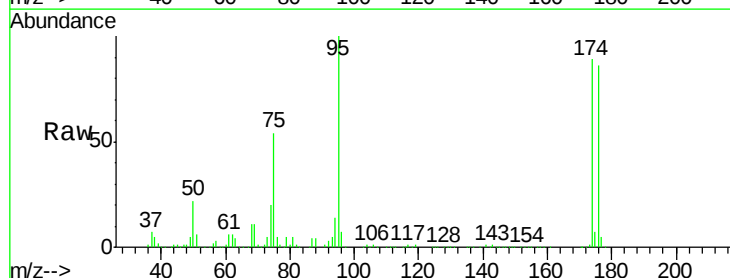
Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB03-180606

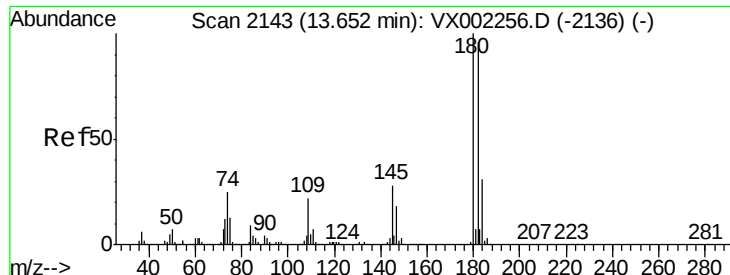
Tot Ion: 75 Resp: 97284
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.41 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002441.D
 Acq: 11 Jun 2018 14:28

Tgt Ion: 75 Resp: 97284
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.22 ug/l

RT: 13.66 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VX002441.D

Acq: 11 Jun 2018 14:28

Instrument :

MSVOA_X

ClientSampleId :

Z5TB03-180606

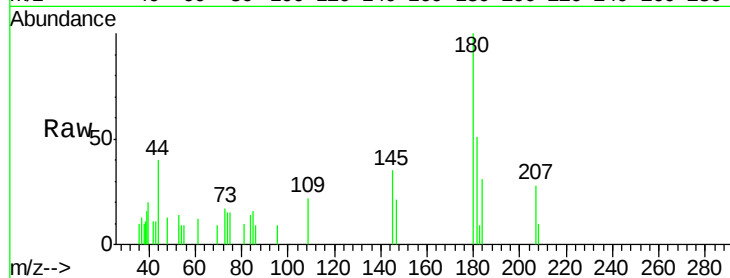
Tot Ion:180 Resp: 881

Ion Ratio Lower Upper

180 100

182 87.5 47.7 143.1

145 27.0 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

