

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060718\
 Data File : VX002376.D
 Acq On : 07 Jun 2018 14:34
 Operator : JC/MD
 Sample : J3331-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Jun 07 15:14:11 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	227155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	324618	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	292523	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161960	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	154916	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
35) Dibromofluoromethane	5.51	113	114519	44.86	ug/l	0.00
Spiked Amount			Recovery	=	89.72%	
50) Toluene-d8	8.72	98	463153	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
62) 4-Bromofluorobenzene	11.14	95	159198	42.19	ug/l	0.00
Spiked Amount			Recovery	=	84.38%	

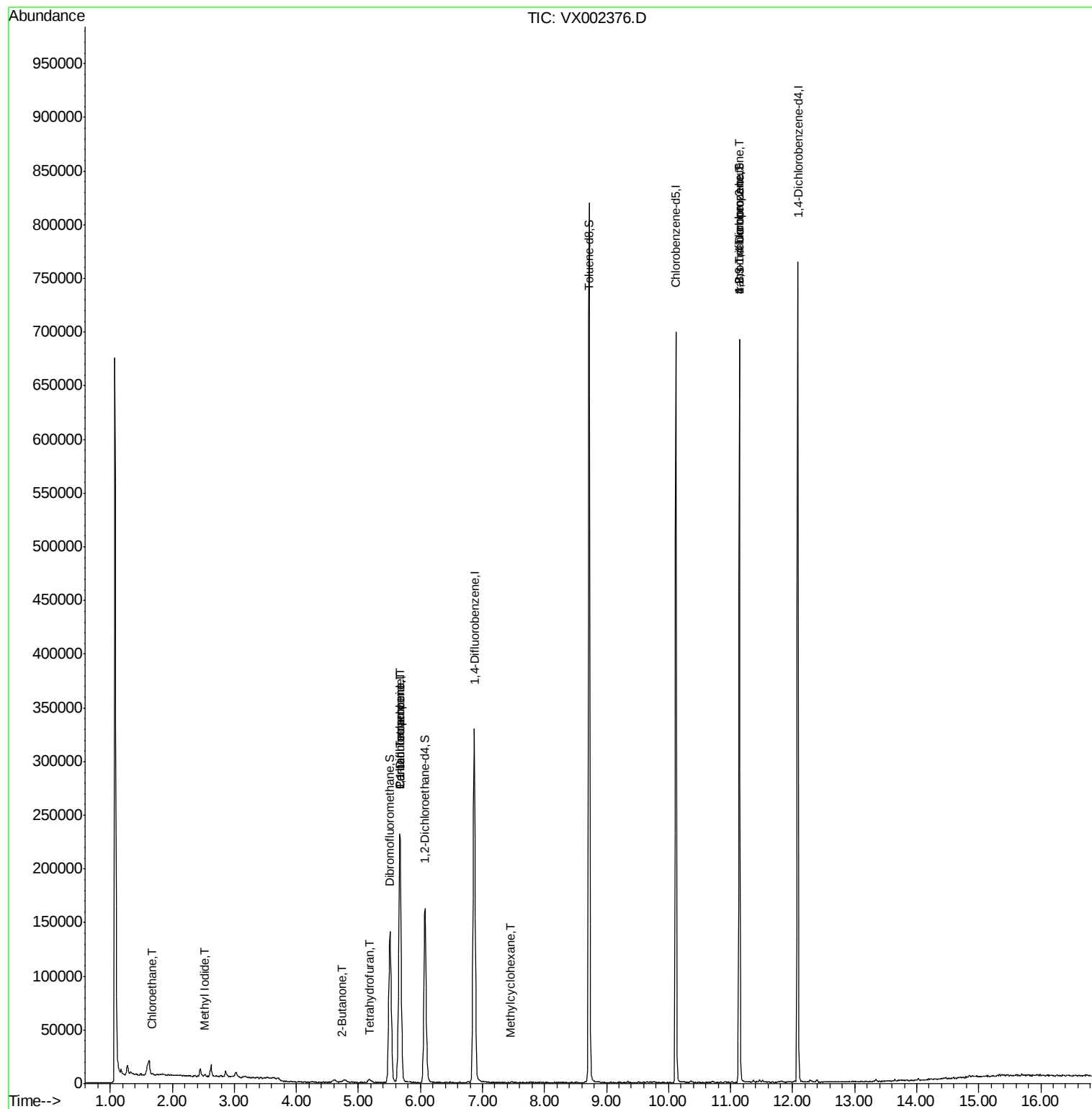
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	901	Below Cal		89
5) Bromomethane	1.64	94	1363	Below Cal		99
6) Chloroethane	1.67	64	795	0.413 ug/l #		43
8) Diethyl Ether	2.20	74	192	Below Cal		84
10) Methyl Iodide	2.52	142	1420	0.413 ug/l #		81
11) Tert butyl alcohol	3.02	59	3201	Below Cal		98
13) Acrolein	2.30	56	261	Below Cal #		45
15) Acrylonitrile	3.15	53	675	Below Cal		96
16) Acetone	2.45	43	8045	Below Cal		97
18) Methyl Acetate	2.78	43	1458	Below Cal #		76
19) Methyl tert-butyl Ether	3.21	73	188	Below Cal #		54
20) Methylene Chloride	2.86	84	2365	Below Cal		89
22) Diisopropyl ether	3.87	45	195	Below Cal #		35
25) 2-Butanone	4.72	43	707	0.317 ug/l #		52
28) Bromochloromethane	5.02	49	43	Below Cal #		13
29) Tetrahydrofuran	5.17	42	2440	1.699 ug/l #		82
36) 1,1-Dichloropropene	5.67	75	16082	4.712 ug/l #		50
38) Carbon Tetrachloride	5.67	117	21126	5.917 ug/l #		15
39) Methylcyclohexane	7.46	83	157	0.300 ug/l #		48
76) 1,2,3-Trichloropropane	11.14	75	86434	24.321 ug/l #		33
81) trans-1,4-Dichloro-2-buten	11.14	75	86434	85.255 ug/l #		7

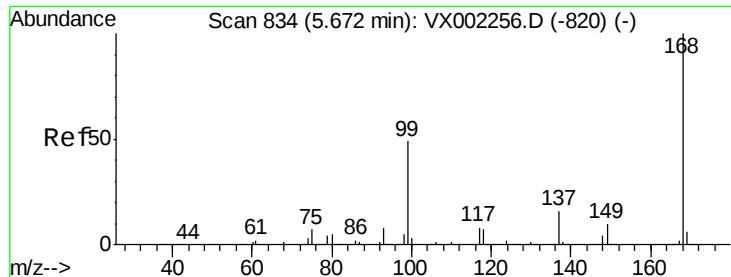
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

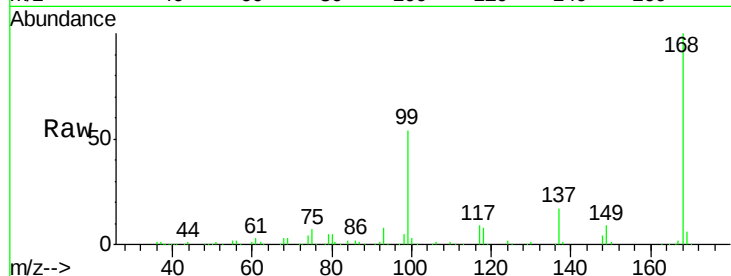
TRIP-BLANK

Tot Ion:168 Resp: 227155

Ion Ratio Lower Upper

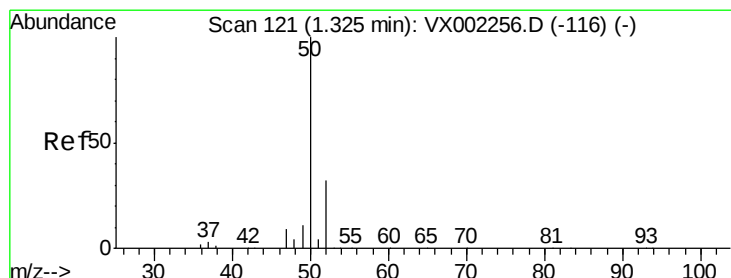
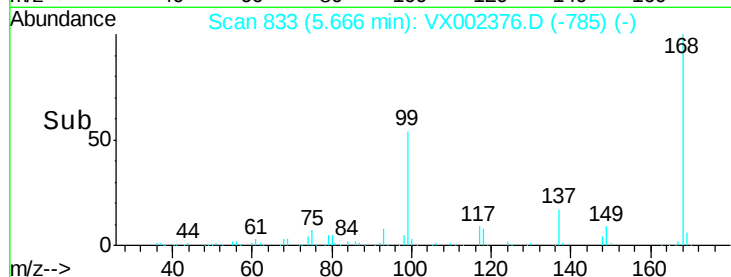
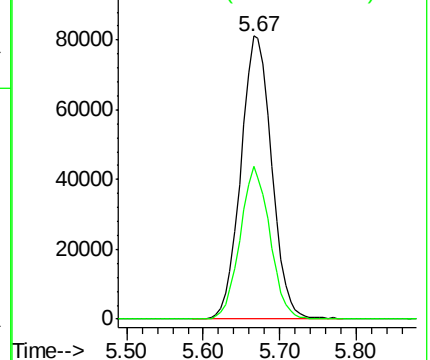
168 100

99 54.0 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: VX002376.D

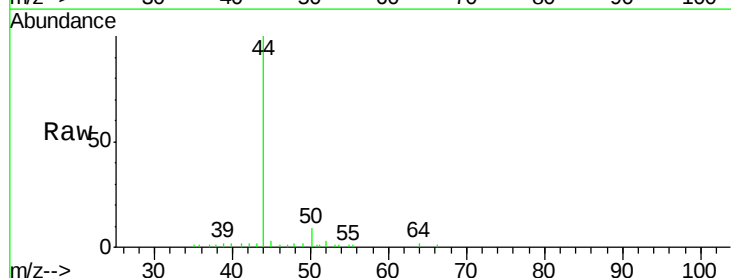
Acq: 07 Jun 2018 14:34

Tgt Ion: 50 Resp: 901

Ion Ratio Lower Upper

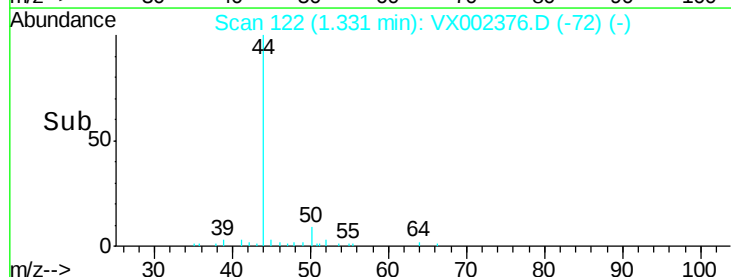
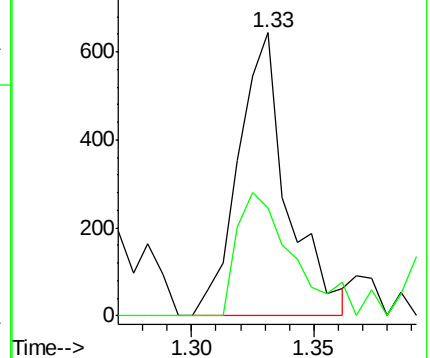
50 100

52 38.1 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: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampled :

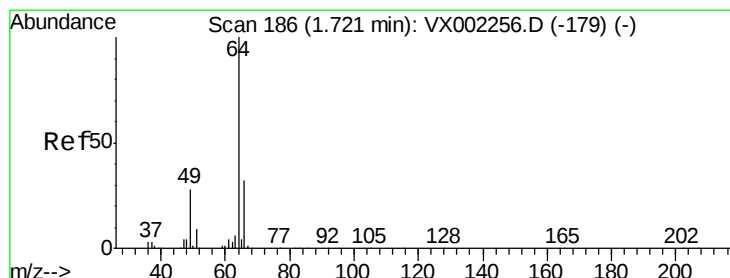
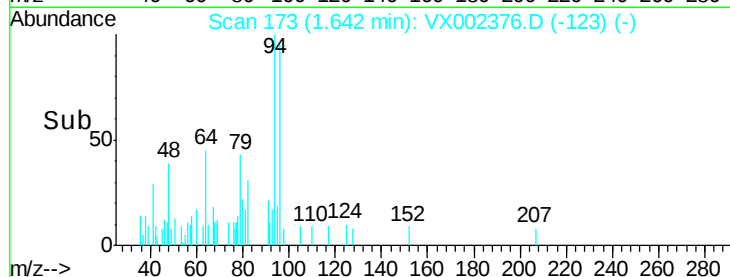
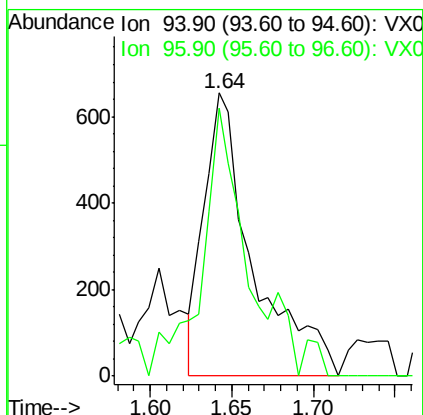
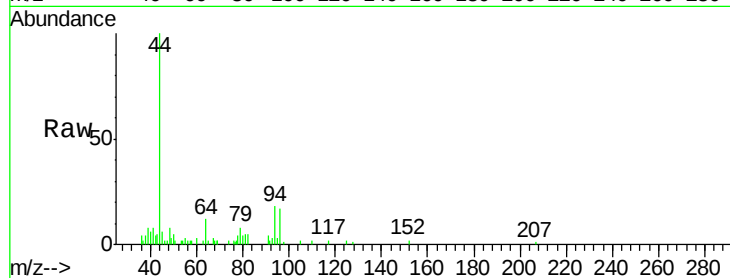
TRIP-BLANK

Tot Ion: 94 Resp: 1363

Ion Ratio Lower Upper

94 100

96 94.6 74.9 112.3



#6

Chloroethane

Concen: 0.413 ug/l

RT: 1.67 min Scan# 178

Delta R.T. -0.05 min

Lab File: VX002376.D

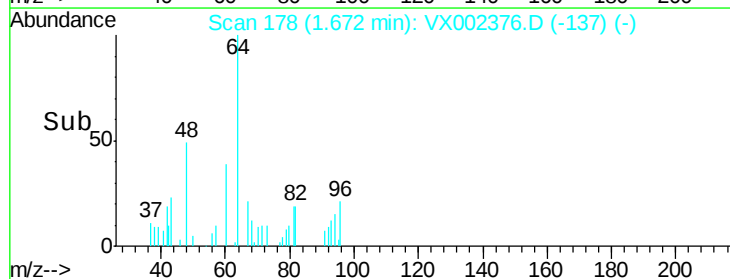
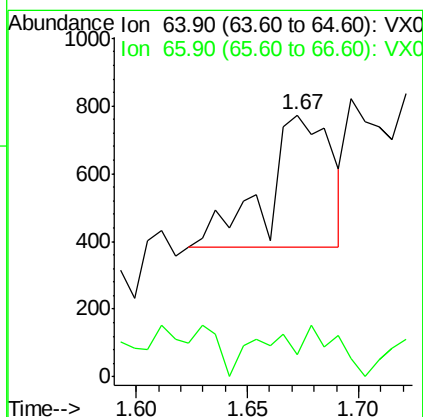
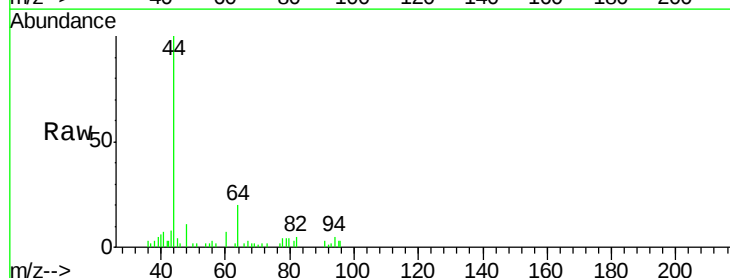
Acq: 07 Jun 2018 14:34

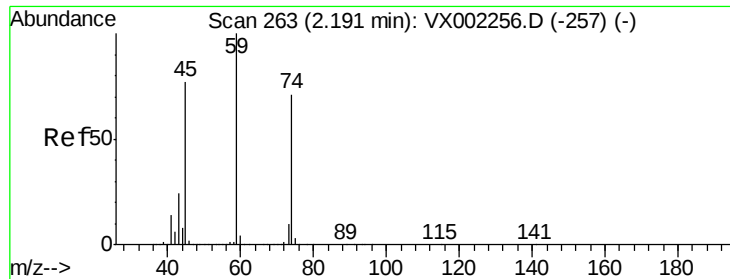
Tgt Ion: 64 Resp: 795

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

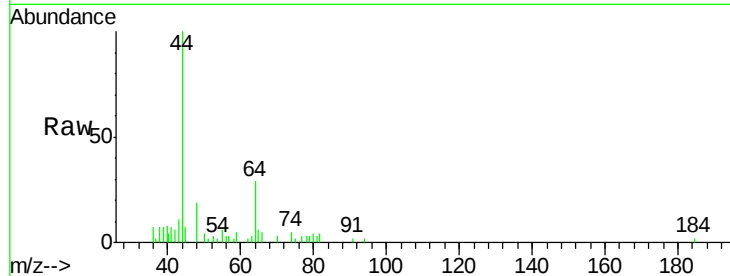
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Tot Ion: 74 Resp: 192

Ion Ratio Lower Upper

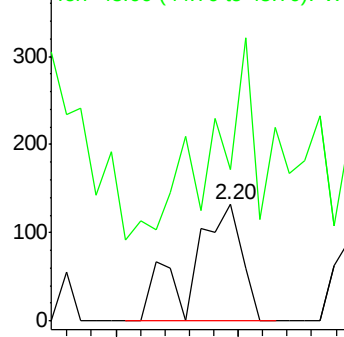
74 100

45 90.1 53.1 159.4

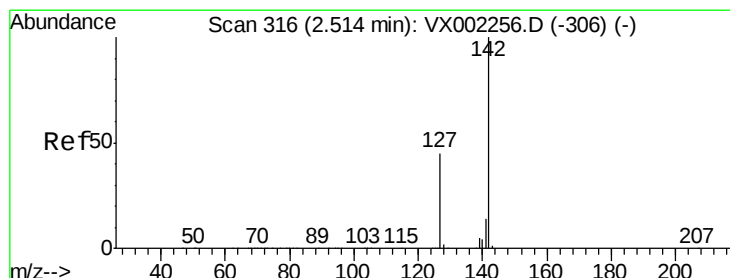
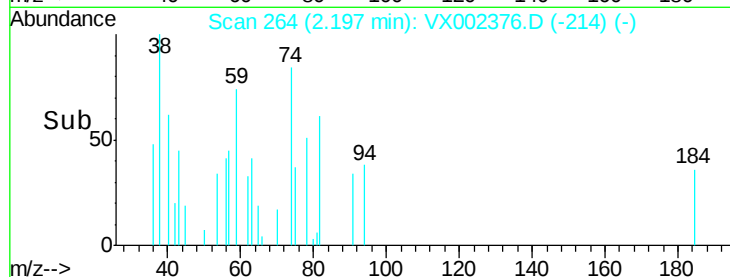


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 0.413 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

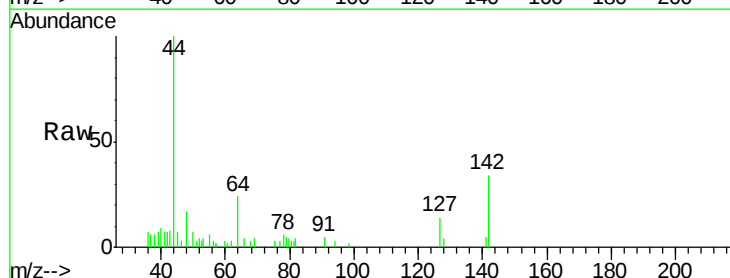
Tgt Ion: 142 Resp: 1420

Ion Ratio Lower Upper

142 100

127 58.5 36.6 55.0#

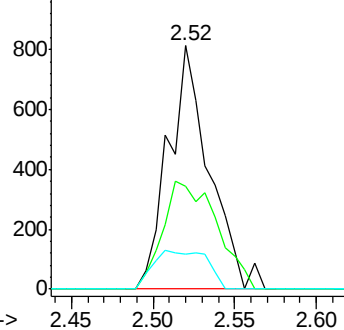
141 21.1 11.3 16.9#



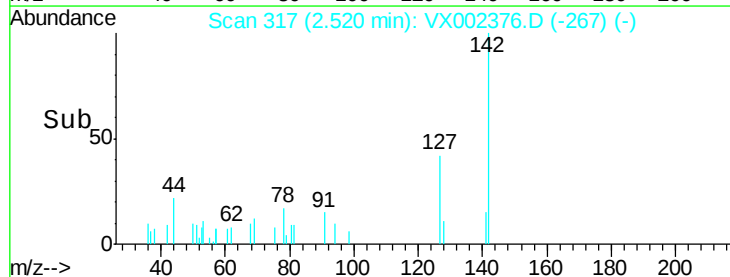
Abundance Ion 141.80 (141.50 to 142.50): V

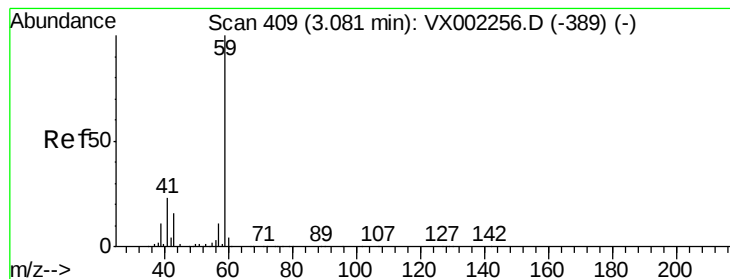
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



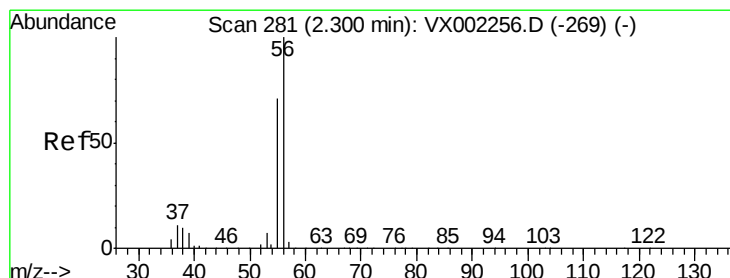
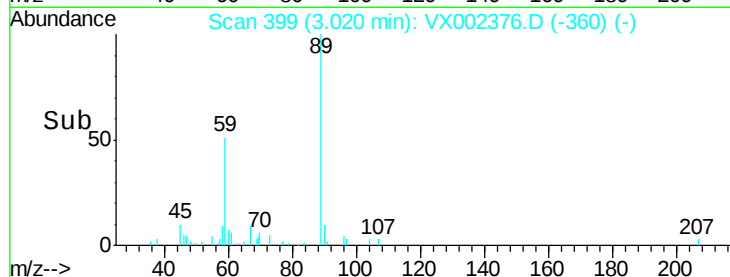
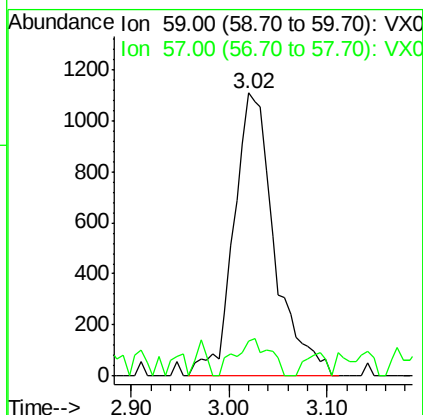
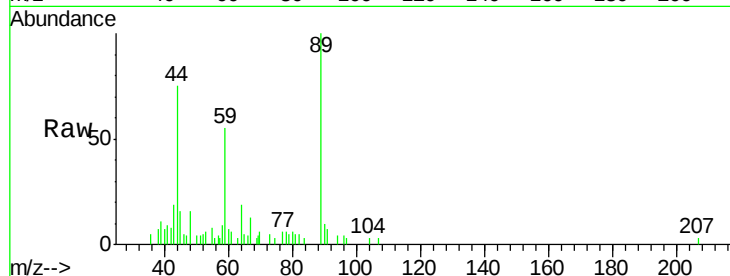


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

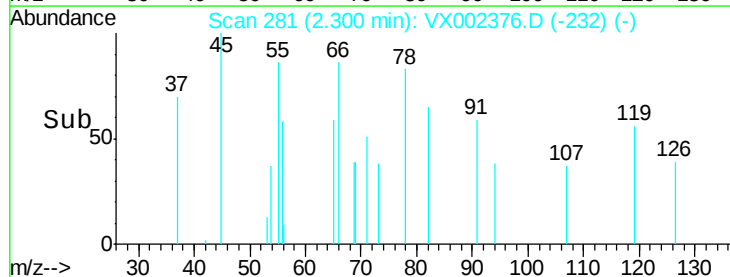
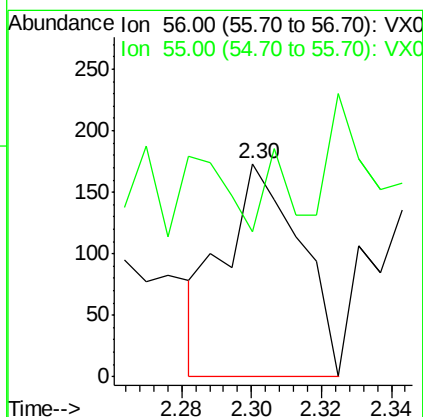
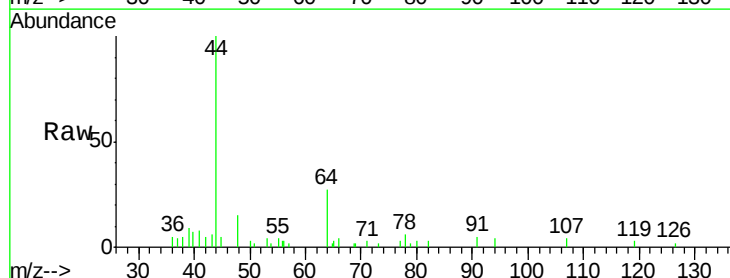
Tot Ion: 59 Resp: 3201
Ion Ratio Lower Upper
59 100
57 11.1 8.2 12.2

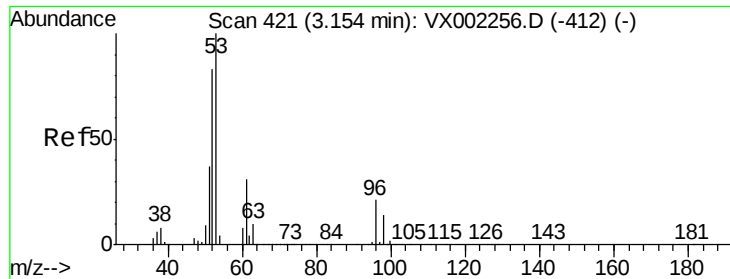


#13

Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

Tgt Ion: 56 Resp: 261
Ion Ratio Lower Upper
56 100
55 25.3 57.0 85.4#

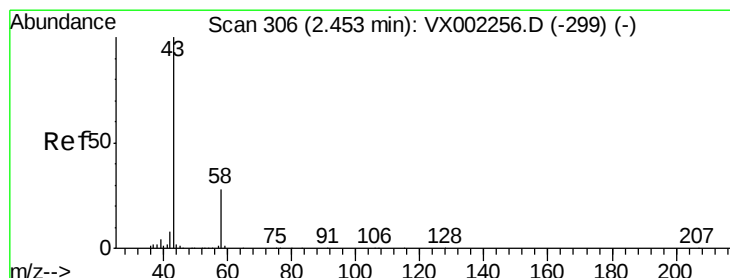
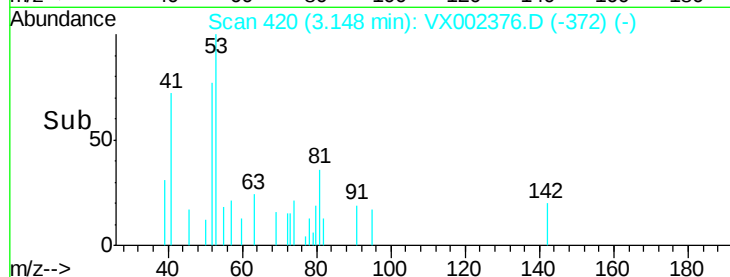
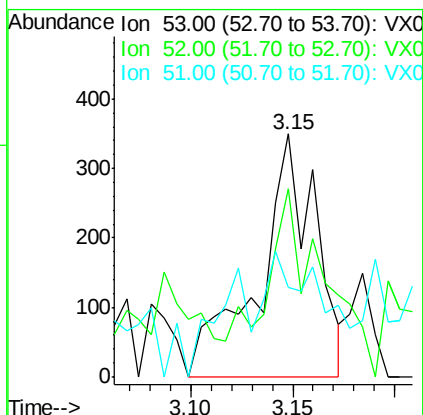
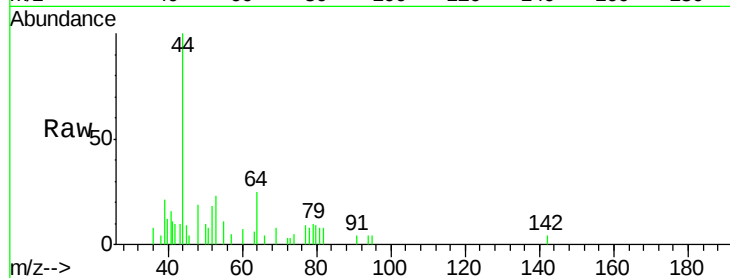




#15
 Acrylonitrile
 Concen: Below Cal
 RT: 3.15 min Scan# 420
 Delta R.T. -0.01 min
 Lab File: VX002376.D
 Acq: 07 Jun 2018 14:34

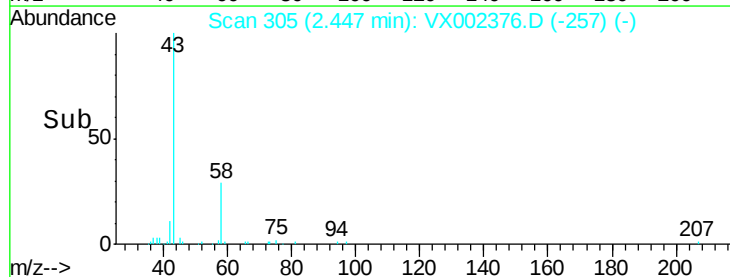
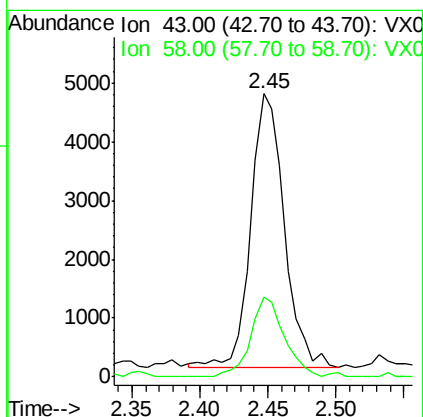
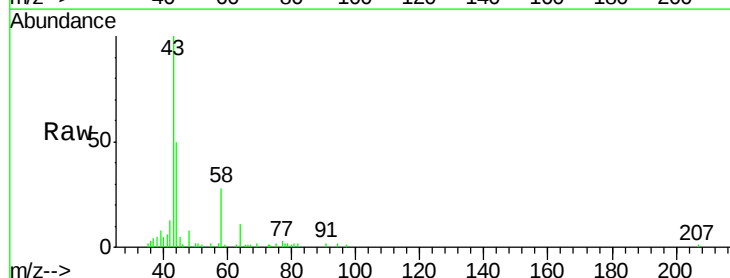
Instrument :
 MSVOA_X
 ClientSampled :
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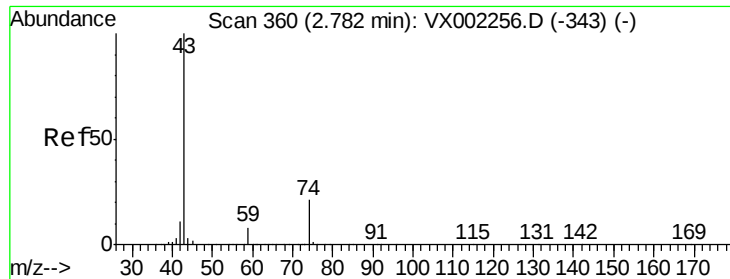
Tot Ion: 53 Resp: 675
 Ion Ratio Lower Upper
 53 100
 52 79.6 66.7 100.1
 51 36.0 29.9 44.9



#16
 Acetone
 Concen: Below Cal
 RT: 2.45 min Scan# 305
 Delta R.T. -0.01 min
 Lab File: VX002376.D
 Acq: 07 Jun 2018 14:34

Tgt Ion: 43 Resp: 8045
 Ion Ratio Lower Upper
 43 100
 58 29.3 22.1 33.1

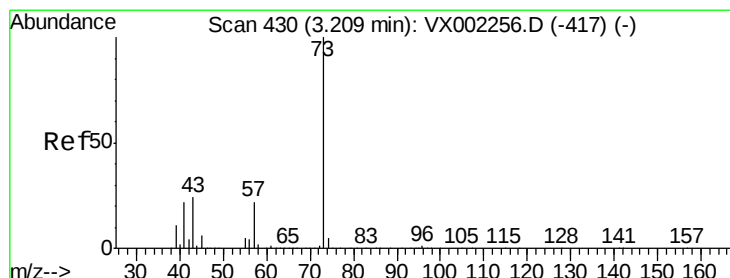
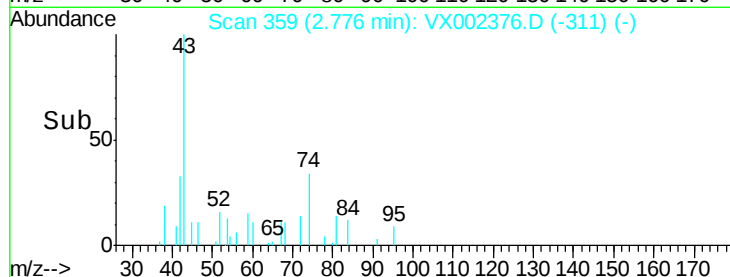
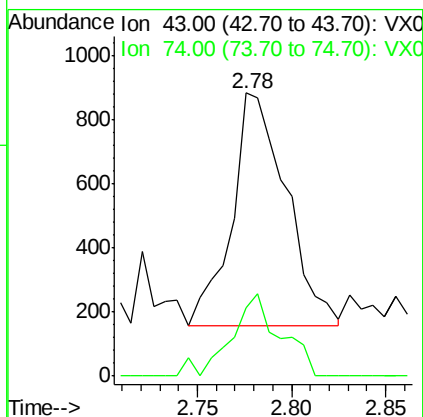
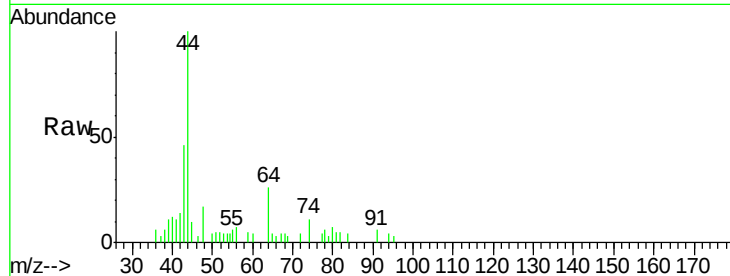




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

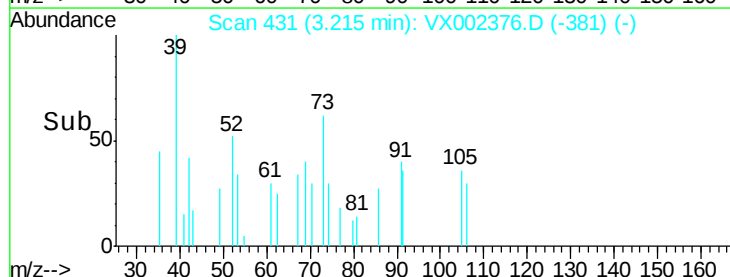
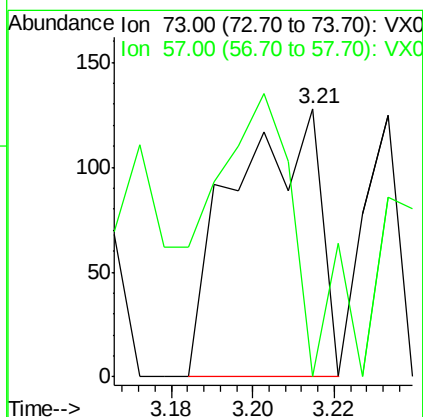
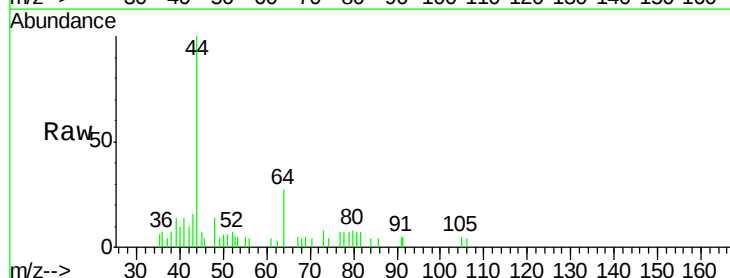
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ClientSampleId :
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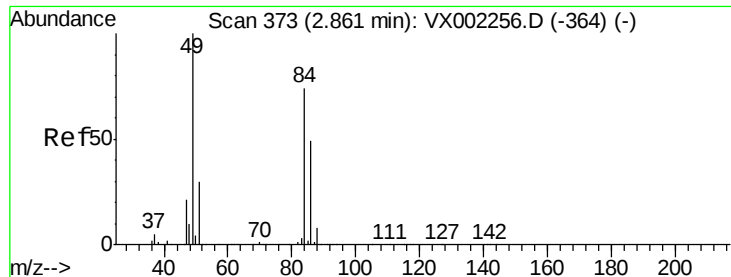
Tot Ion: 43 Resp: 1458
Ion Ratio Lower Upper
43 100
74 32.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

Tgt Ion: 73 Resp: 188
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

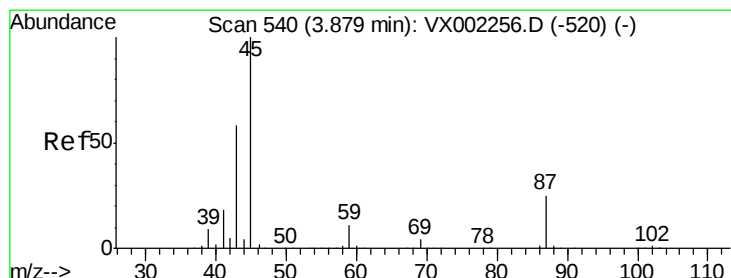
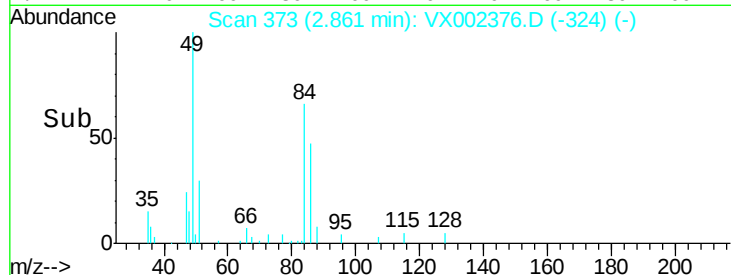
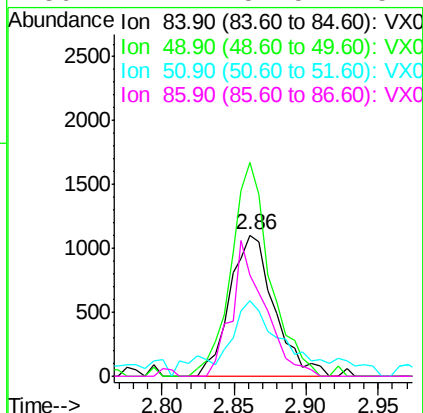
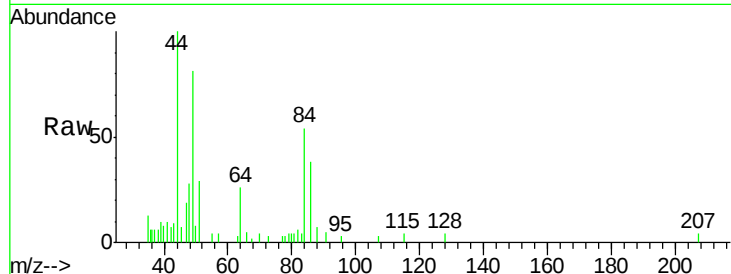




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

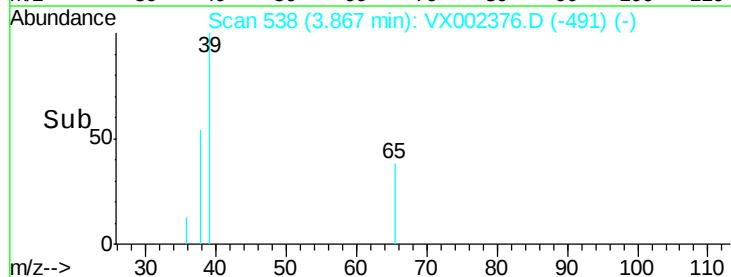
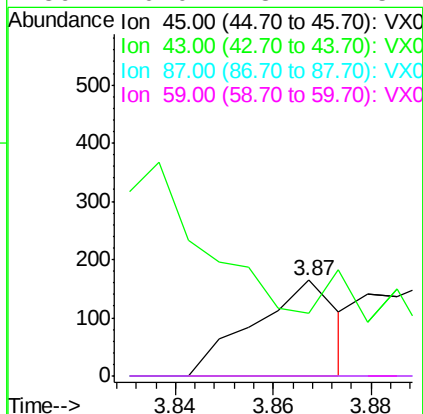
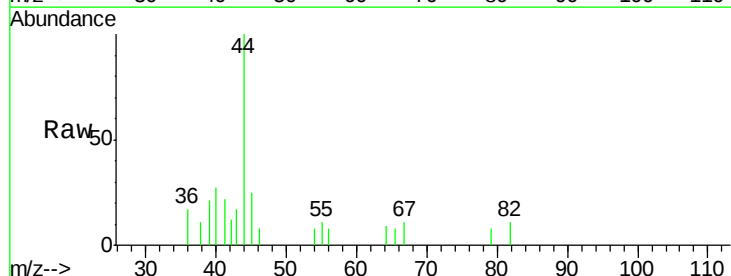
Instrument :
MSVOA_X
ClientSampleId :
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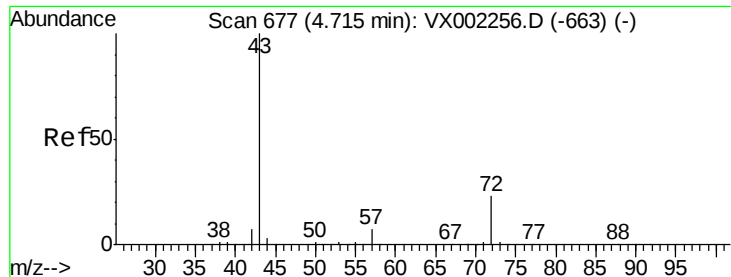
Tot Ion: 84 Resp: 2365
Ion Ratio Lower Upper
84 100
49 151.2 107.8 161.6
51 44.8 32.8 49.2
86 71.2 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

Tgt Ion: 45 Resp: 195
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: 0.317 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampled :

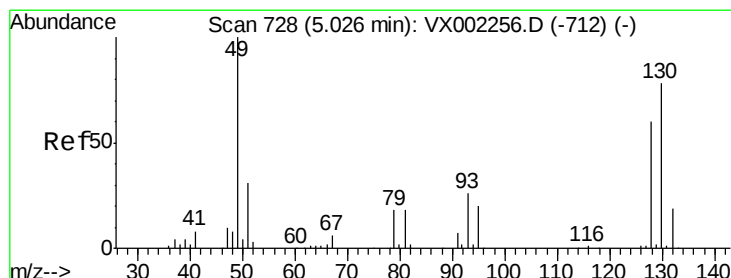
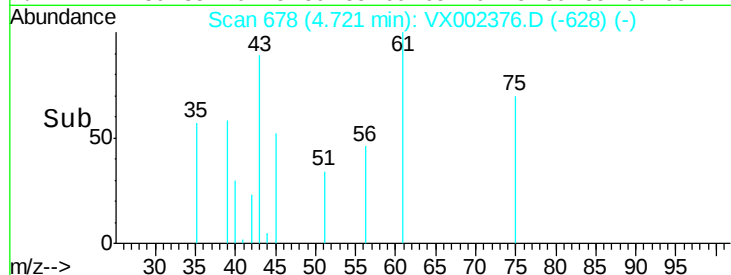
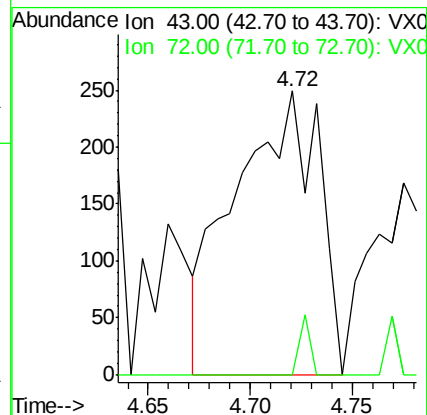
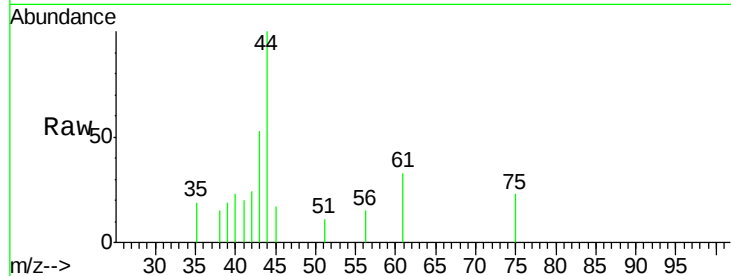
TRIP-BLANK

Tot Ion: 43 Resp: 707

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

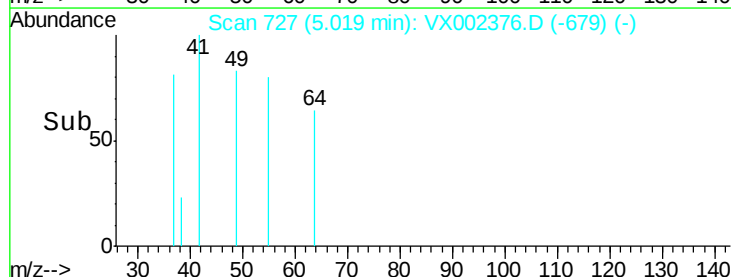
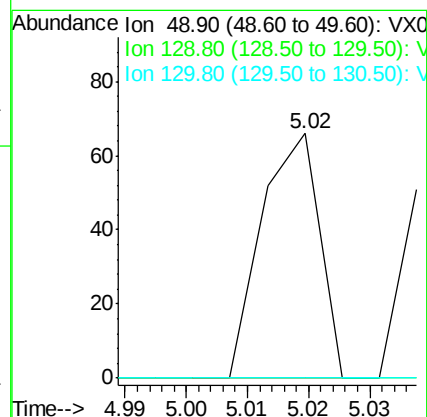
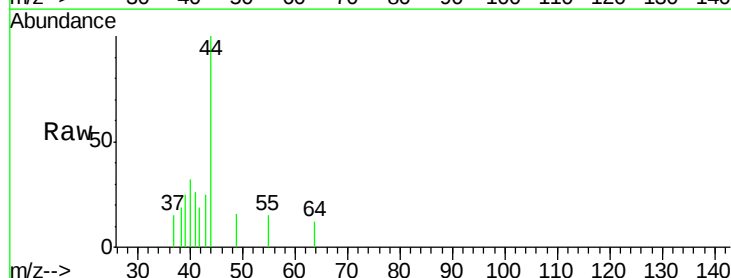
Tgt Ion: 49 Resp: 43

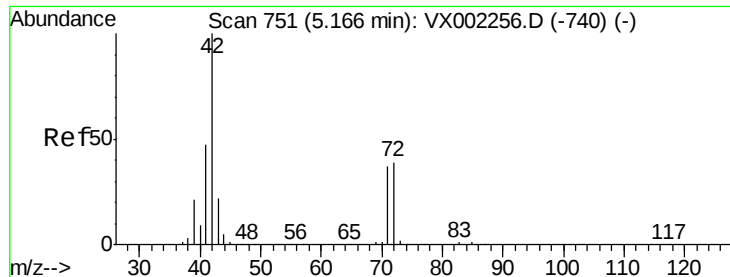
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#

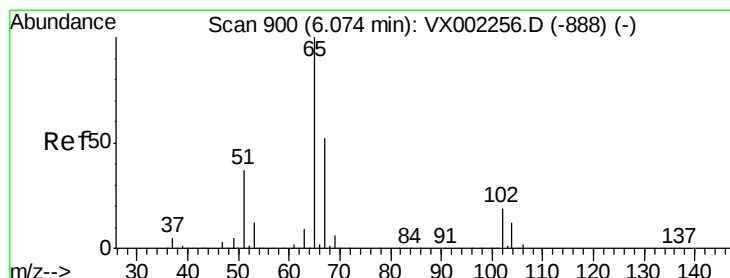
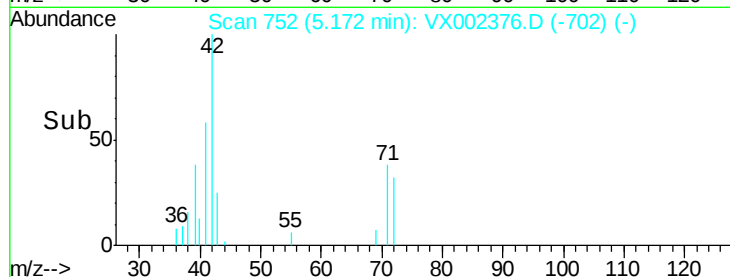
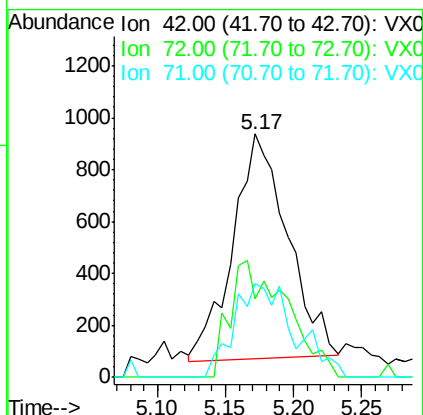
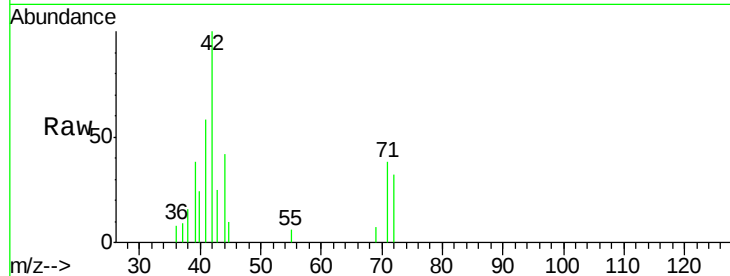




#29
Tetrahydrofuran
Concen: 1.699 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

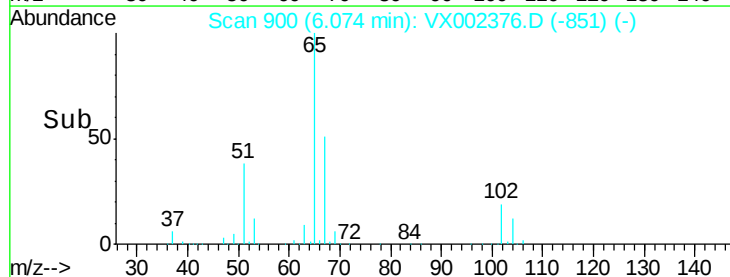
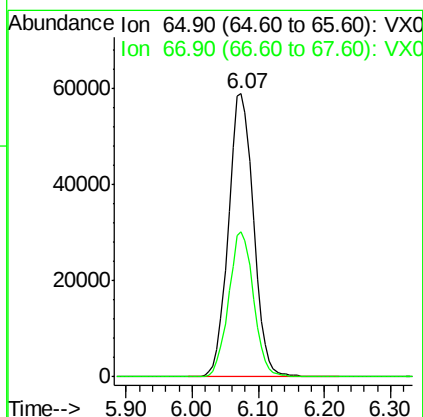
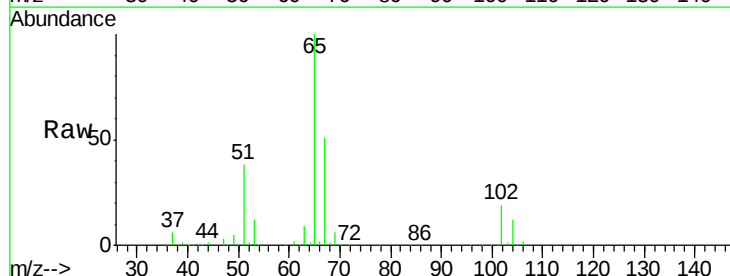
Instrument :
MSVOA_X
ClientSampled :
TRIP-BLANK

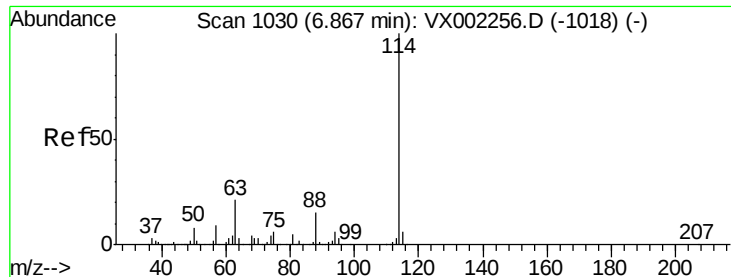
Tot Ion: 42 Resp: 2440
Ion Ratio Lower Upper
42 100
72 53.4 32.0 48.0#
71 46.2 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 47.520 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002376.D
Acq: 07 Jun 2018 14:34

Tgt Ion: 65 Resp: 154916
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

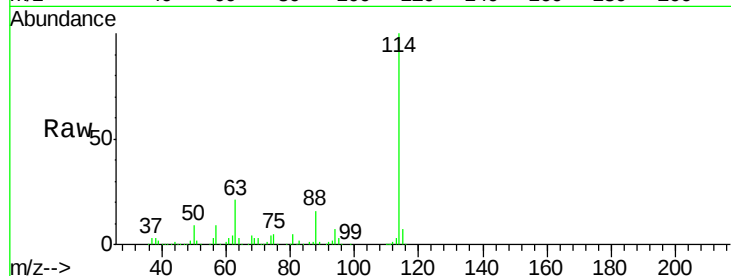
Tot Ion:114 Resp: 324618

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

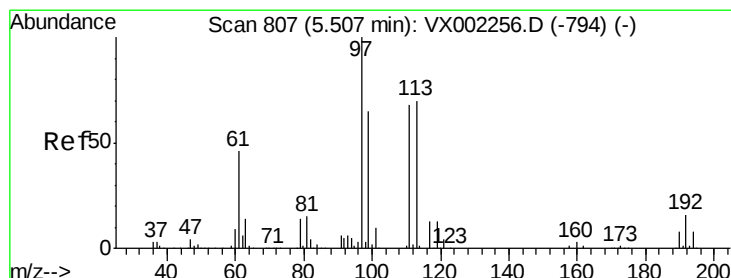
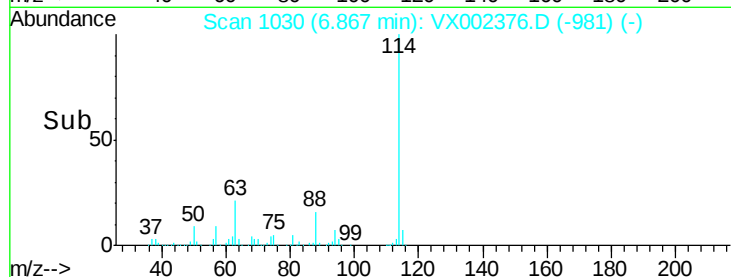
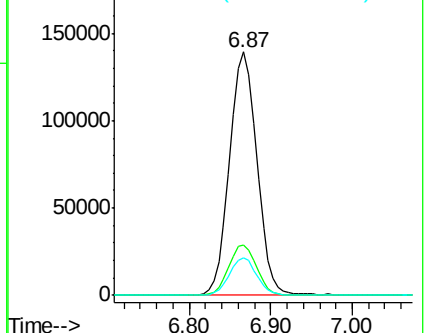
88 15.6 0.0 30.0



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: 44.860 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

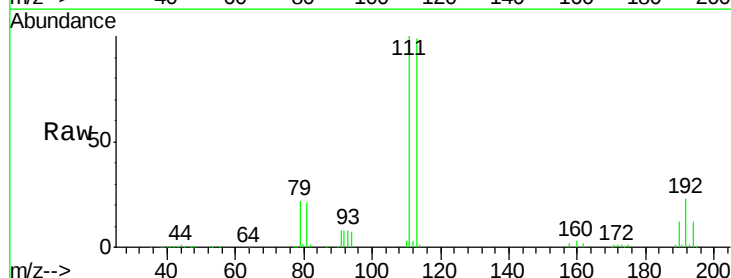
Tgt Ion:113 Resp: 114519

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

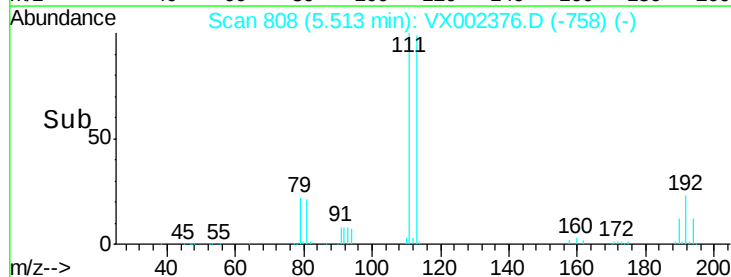
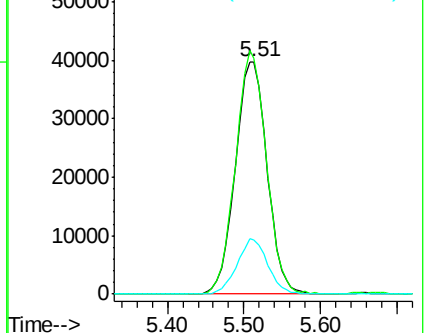
192 22.8 19.1 28.7

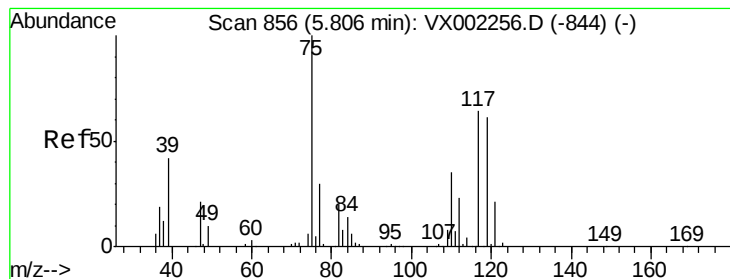


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.712 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

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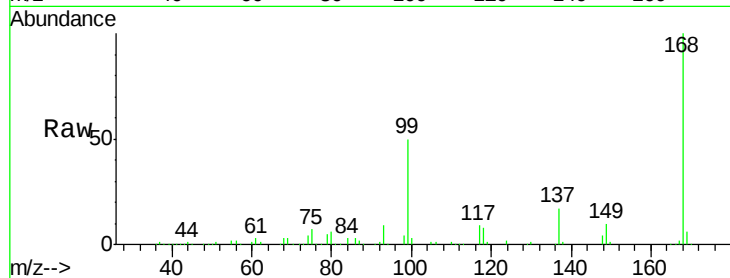
Tot Ion: 75 Resp: 16082

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

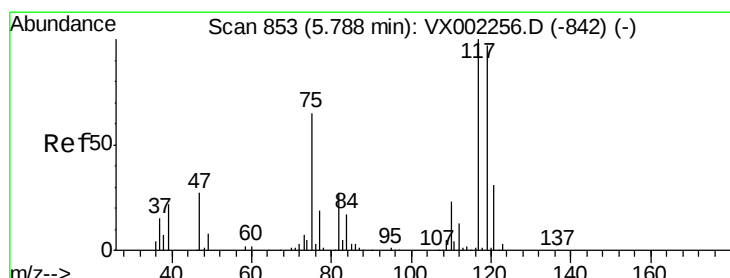
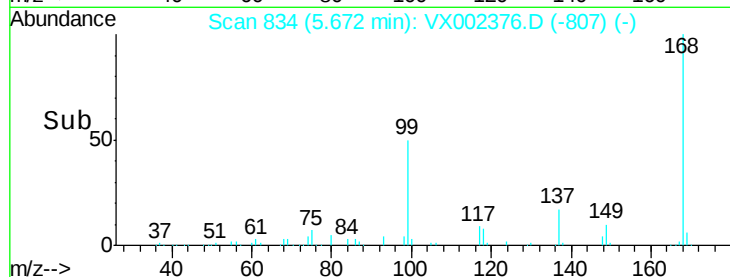
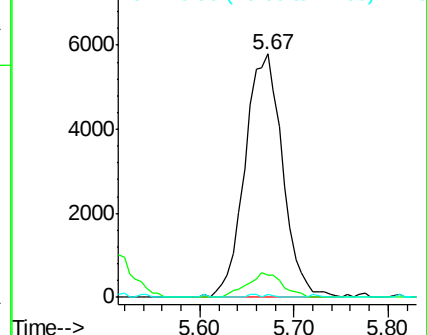
77 0.2 24.3 36.5#



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: 5.917 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

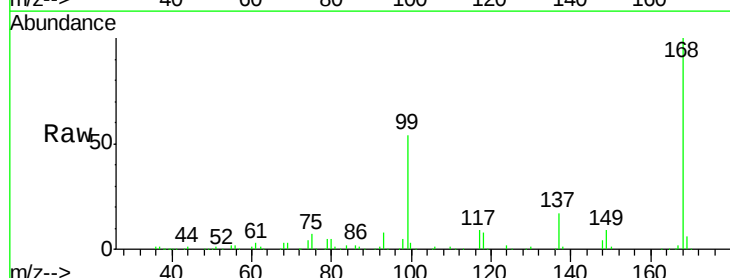
Tgt Ion:117 Resp: 21126

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

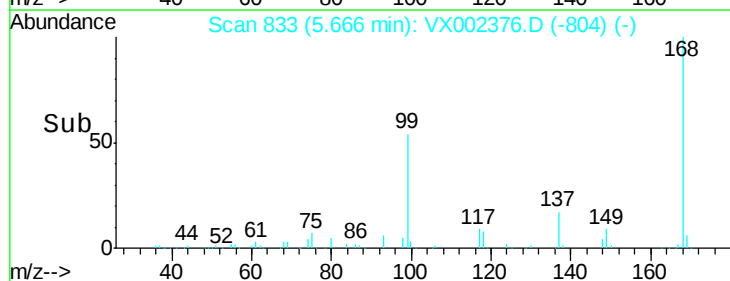
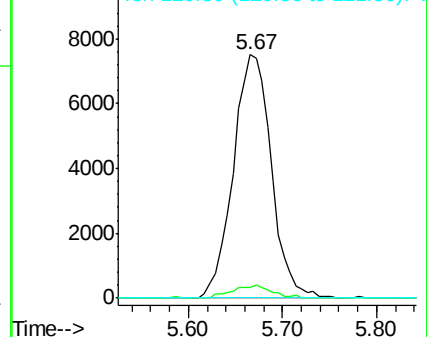
121 0.0 24.4 36.6#

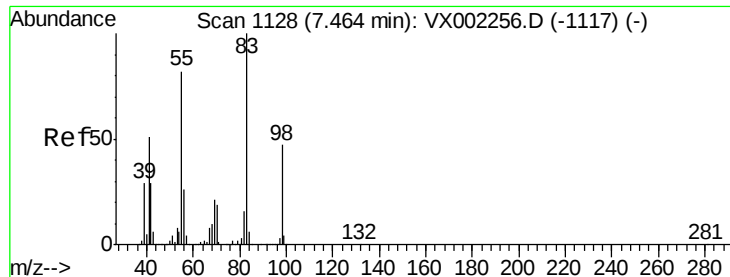


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 0.300 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampled :

TRIP-BLANK

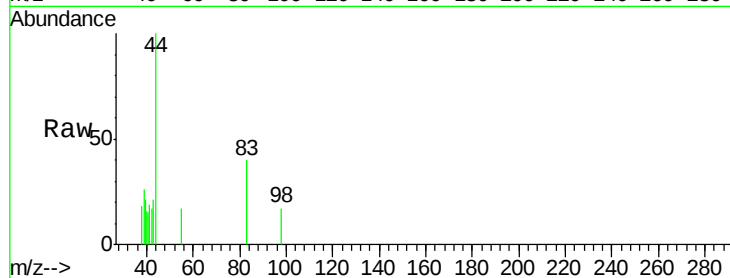
Tot Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

55 12.2 65.4 98.0#

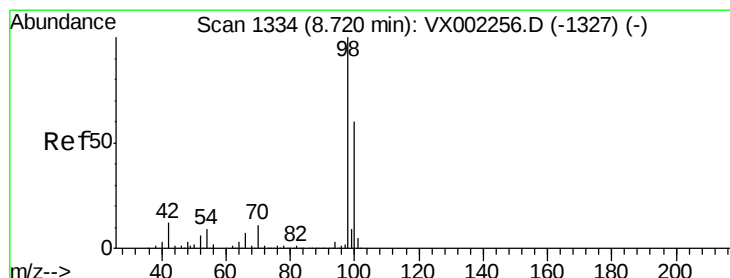
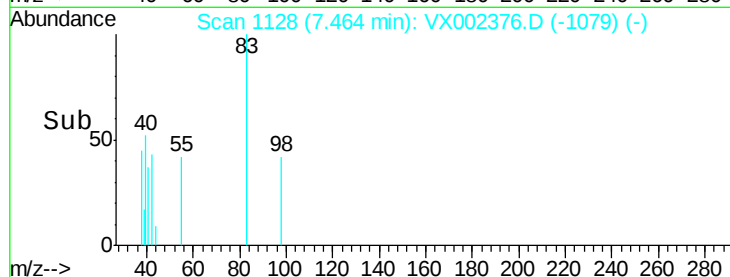
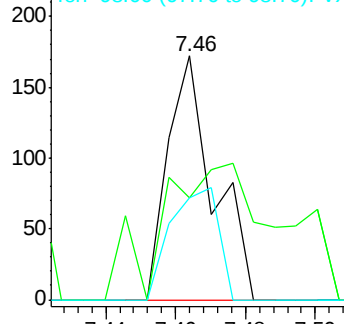
98 41.9 37.4 56.0



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



#50

Toluene-d8

Concen: 47.334 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002376.D

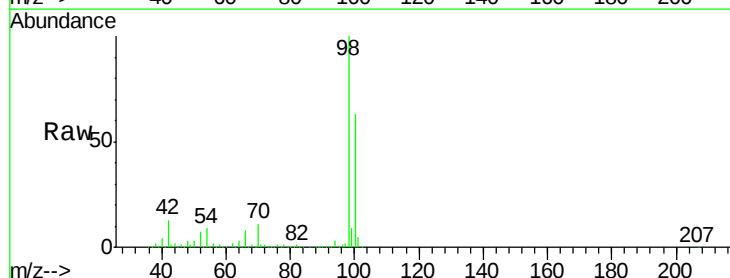
Acq: 07 Jun 2018 14:34

Tgt Ion: 98 Resp: 463153

Ion Ratio Lower Upper

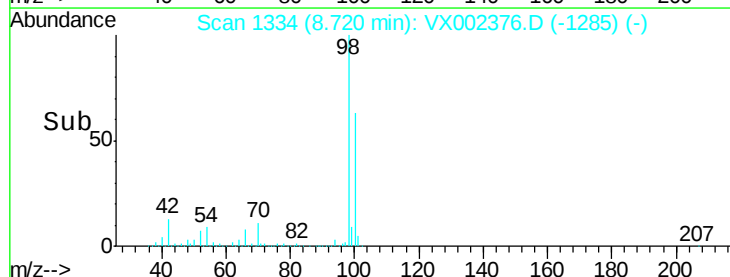
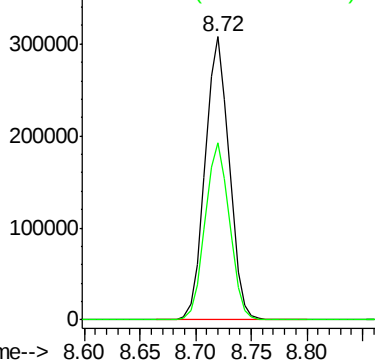
98 100

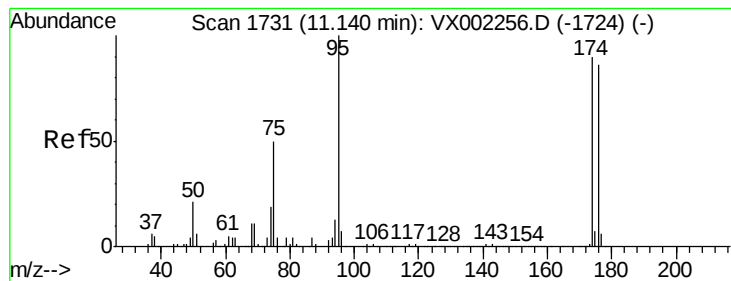
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.192 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

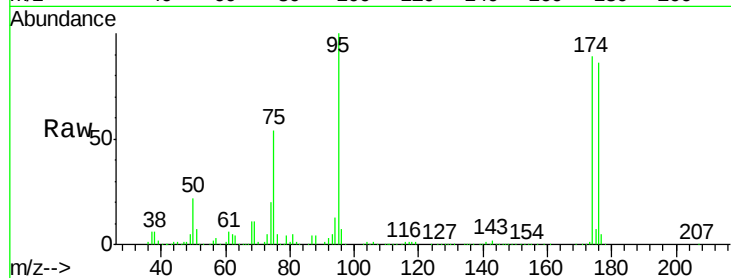
Tot Ion: 95 Resp: 159198

Ion Ratio Lower Upper

95 100

174 93.3 0.0 187.4

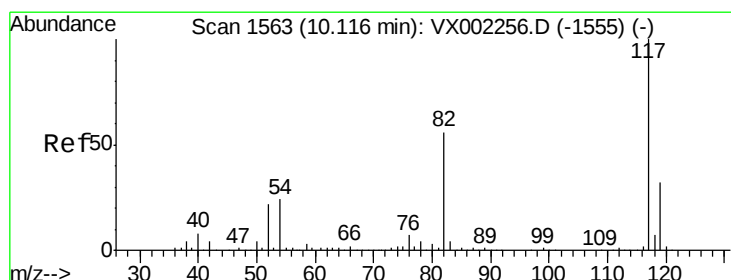
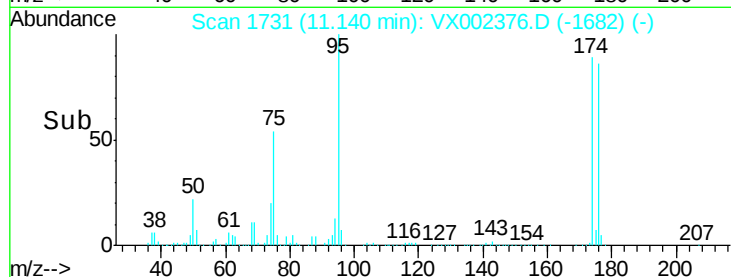
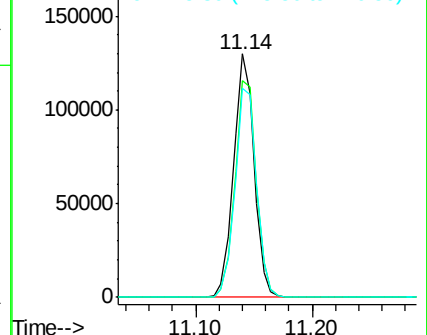
176 90.3 0.0 181.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

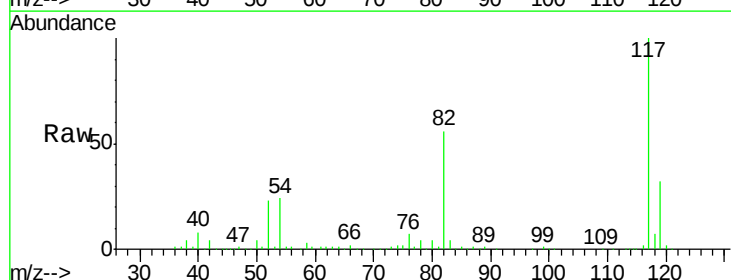
Tgt Ion: 117 Resp: 292523

Ion Ratio Lower Upper

117 100

82 56.4 45.0 67.4

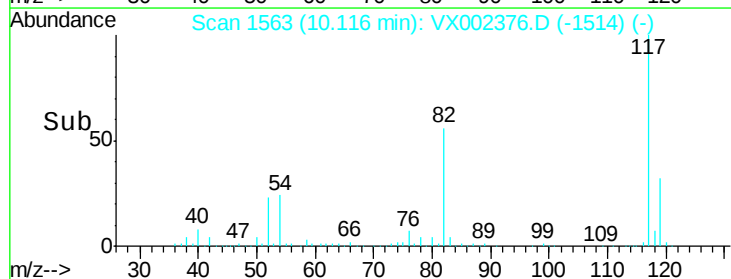
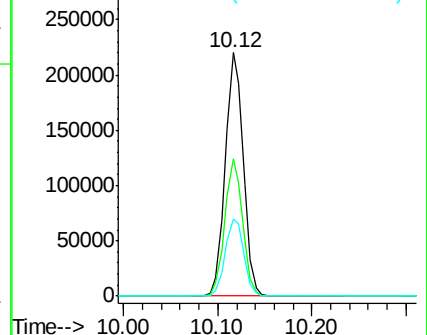
119 32.0 25.8 38.6

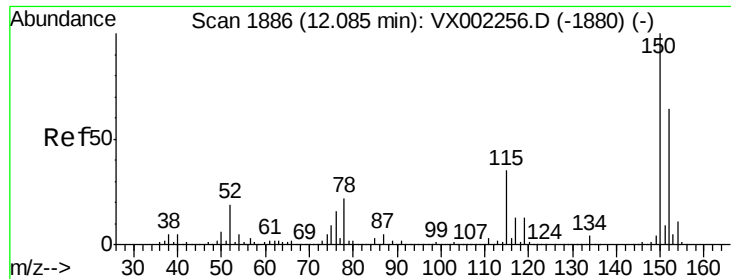


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampled :

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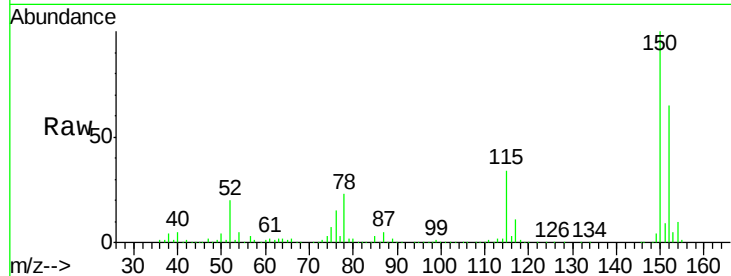
Tot Ion:152 Resp: 161960

Ion Ratio Lower Upper

152 100

115 56.1 40.1 120.2

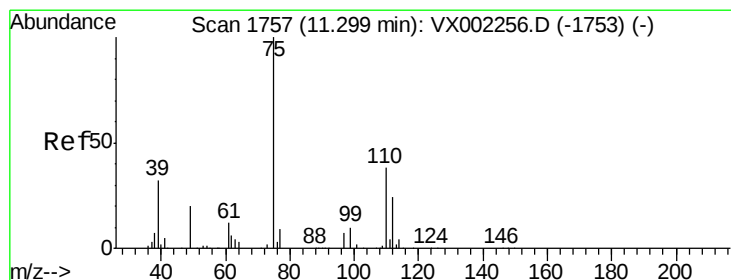
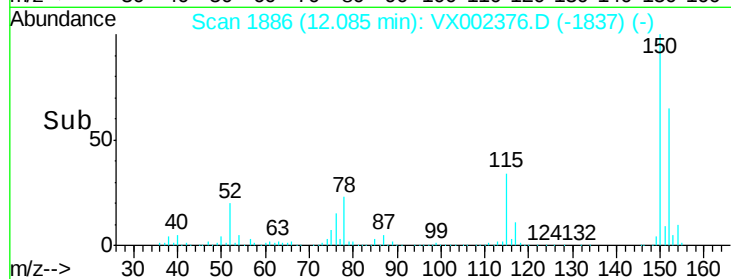
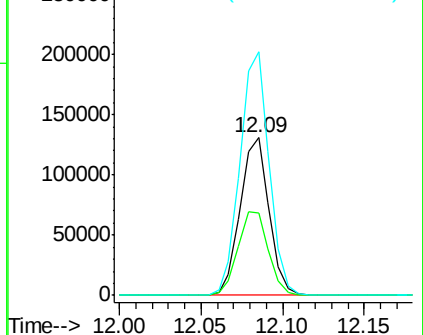
150 155.3 0.0 347.2



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: 24.321 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002376.D

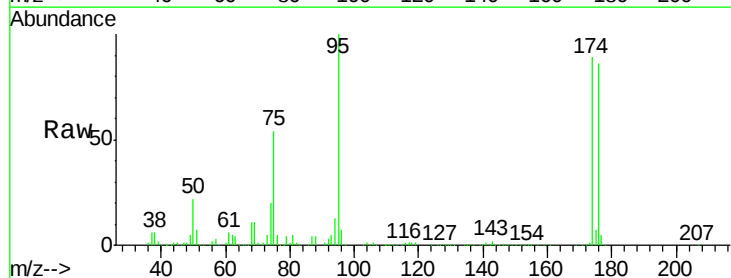
Acq: 07 Jun 2018 14:34

Tgt Ion: 75 Resp: 86434

Ion Ratio Lower Upper

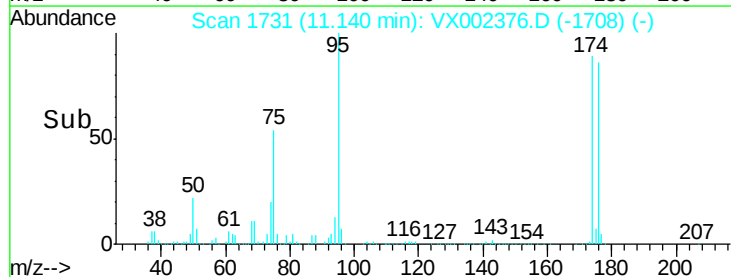
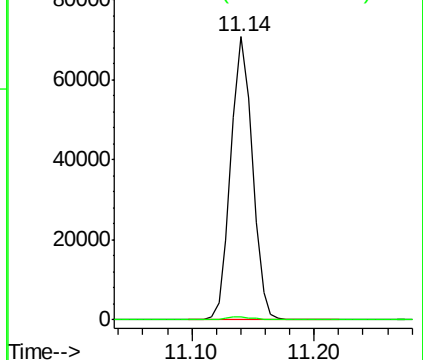
75 100

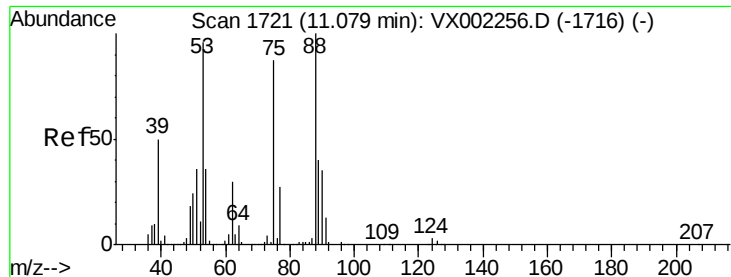
77 1.2 22.8 68.3#



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: 85.255 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002376.D

Acq: 07 Jun 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

Tot Ion: 75 Resp: 86434

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

