

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071618\
 Data File : VX003405.D
 Acq On : 16 Jul 2018 22:20
 Operator : JC/MD
 Sample : PB111123ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB111123ZHE#13

Quant Time: Jul 17 02:00:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267047	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	393300	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	377013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	211150	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	170046	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	5.51	113	150613	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	8.72	98	637231	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
62) 4-Bromofluorobenzene	11.14	95	223836	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	

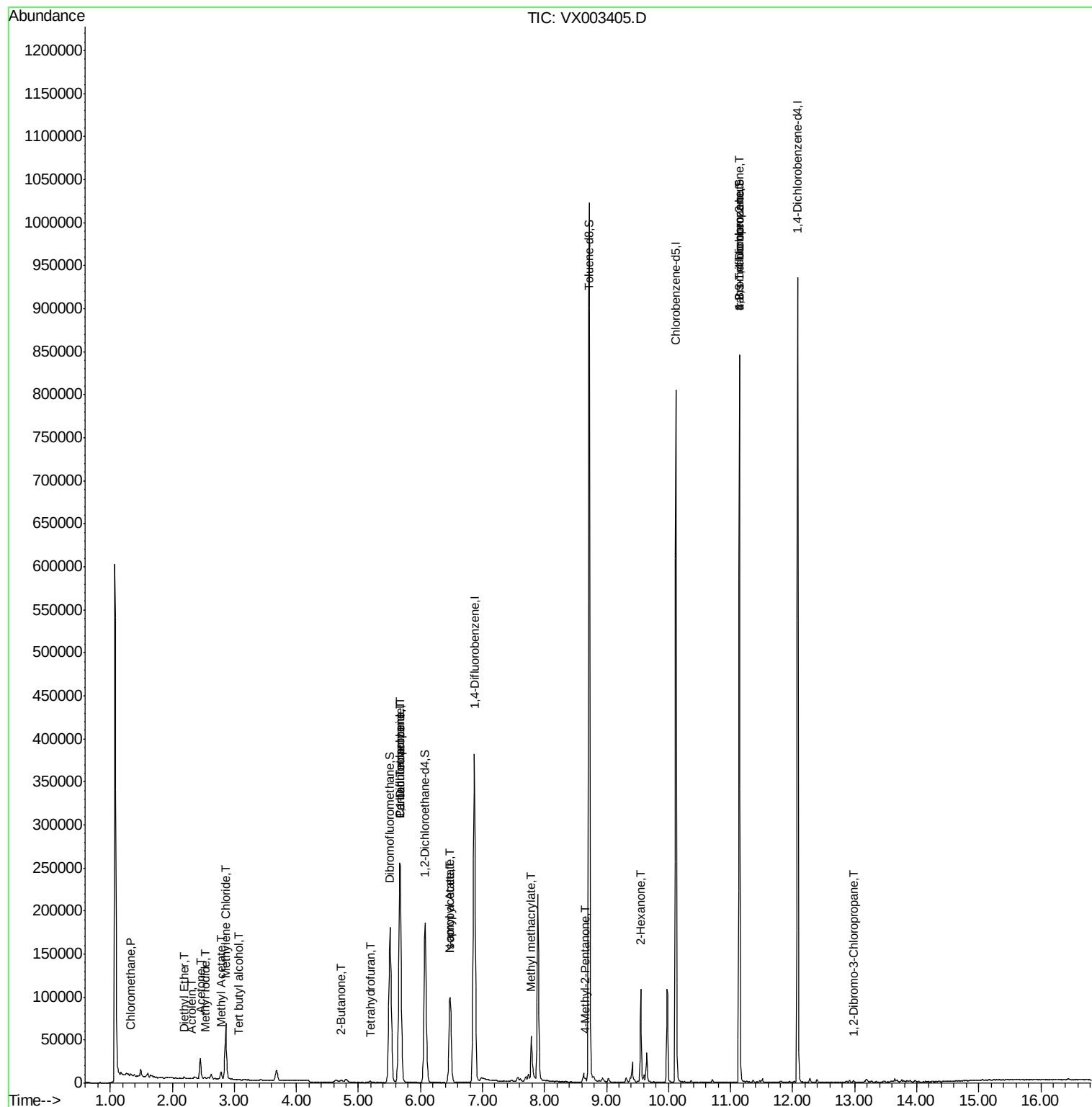
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1119	0.34	ug/l	# 86
5) Bromomethane	1.65	94	2719	Below	Cal	92
6) Chloroethane	1.73	64	1000	Below	Cal	# 43
8) Diethyl Ether	2.19	74	436	0.22	ug/l	89
10) Methyl Iodide	2.53	142	2052	0.64	ug/l	# 94
11) Tert butyl alcohol	3.08	59	898	1.14	ug/l	# 91
13) Acrolein	2.30	56	282	0.75	ug/l	# 74
16) Acetone	2.45	43	26170	17.99	ug/l	# 86
18) Methyl Acetate	2.78	43	10255	2.16	ug/l	93
20) Methylene Chloride	2.86	84	30591	9.05	ug/l	89
25) 2-Butanone	4.73	43	5209	2.29	ug/l	99
29) Tetrahydrofuran	5.19	42	1386	0.96	ug/l	92
36) 1,1-Dichloropropene	5.67	75	16258	4.08	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	22477	5.55	ug/l	# 16
43) Isopropyl Acetate	6.48	43	129564	19.13	ug/l	# 92
48) Methyl methacrylate	7.78	41	1673	0.48	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.66	43	1945	0.44	ug/l	# 45
59) 2-Hexanone	9.55	43	11835	3.45	ug/l	# 62
74) N-amyl acetate	6.48	43	129564	19.93	ug/l	# 91
76) 1,2,3-Trichloropropane	11.14	75	98232	25.70	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	98232	83.49	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	282	0.30	ug/l	# 1

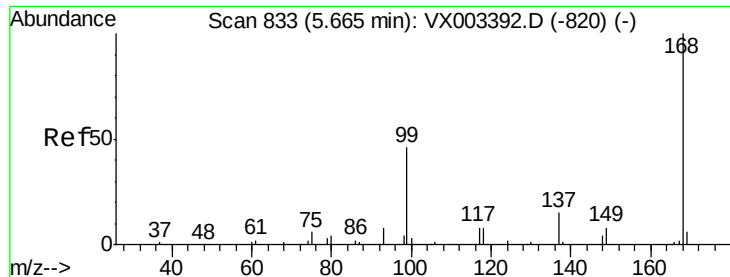
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 16 13:15:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

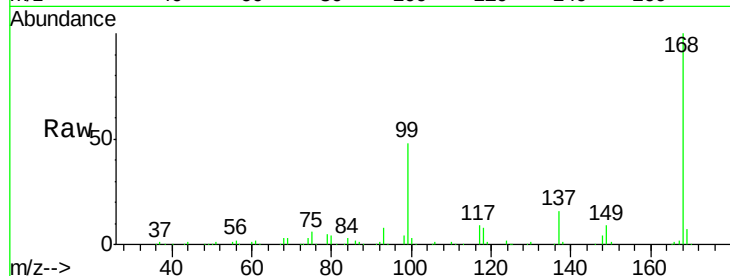
PB111123ZHE#13

Tot Ion:168 Resp: 267047

Ion Ratio Lower Upper

168 100

99 47.9 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

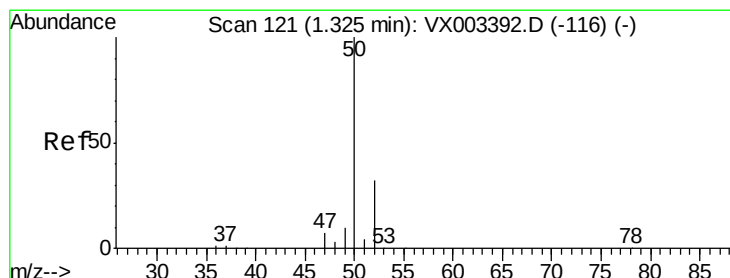
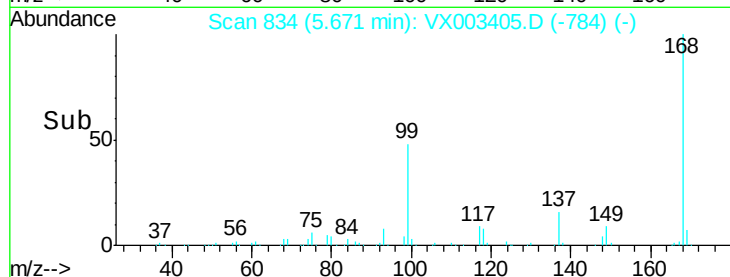
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.34 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003405.D

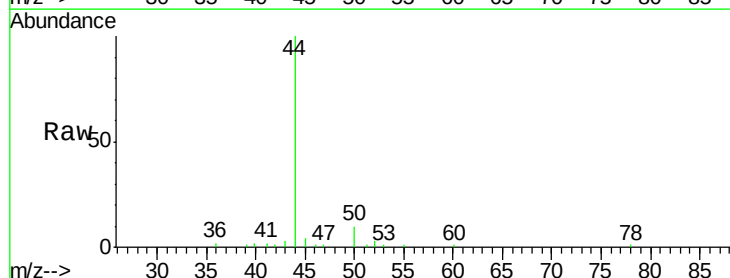
Acq: 16 Jul 2018 22:20

Tgt Ion: 50 Resp: 1119

Ion Ratio Lower Upper

50 100

52 24.5 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

800

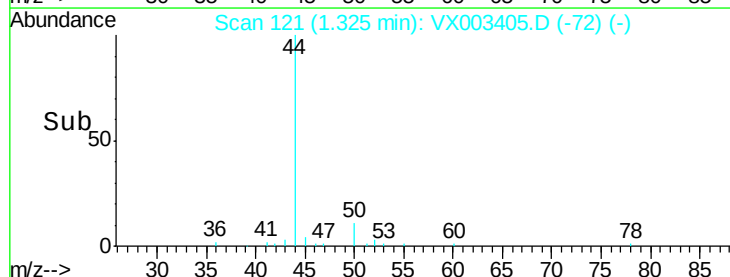
600

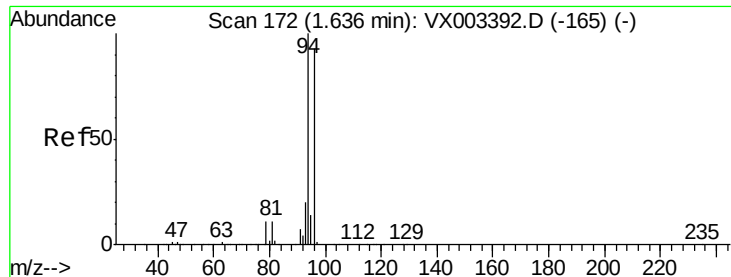
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

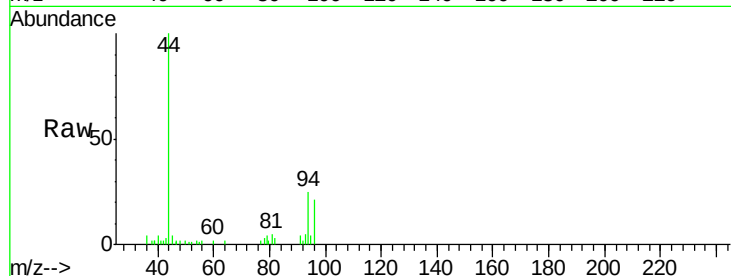
PB111123ZHE#13

Tot Ion: 94 Resp: 2719

Ion Ratio Lower Upper

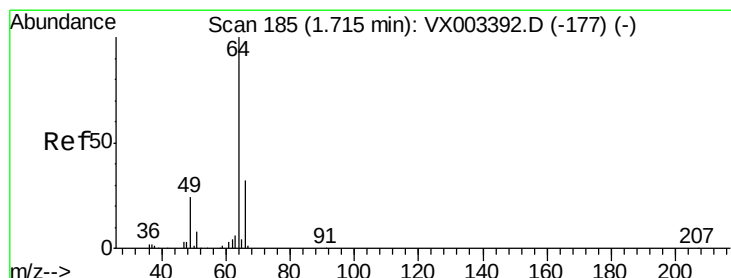
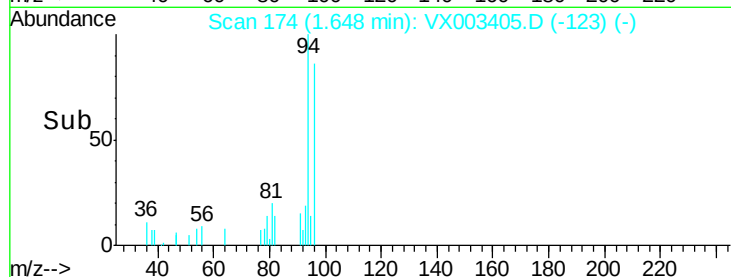
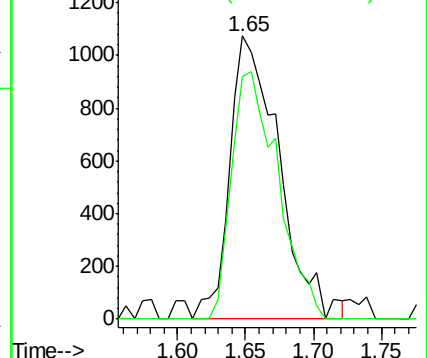
94 100

96 85.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.02 min

Lab File: VX003405.D

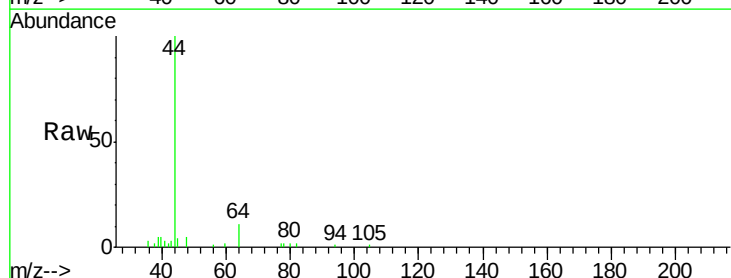
Acq: 16 Jul 2018 22:20

Tgt Ion: 64 Resp: 1000

Ion Ratio Lower Upper

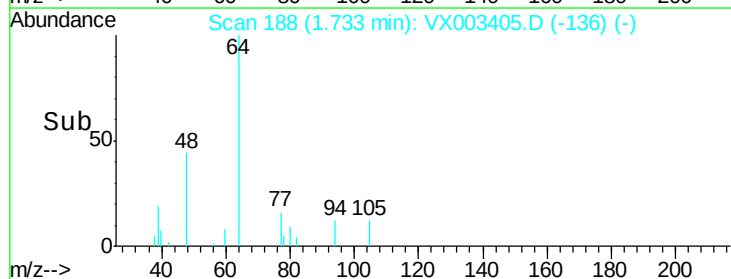
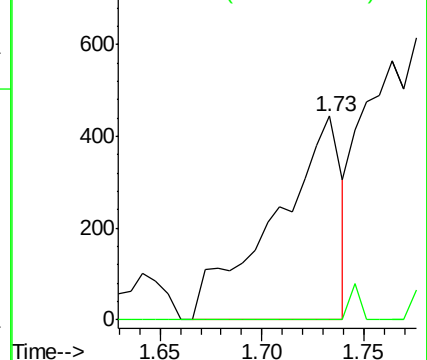
64 100

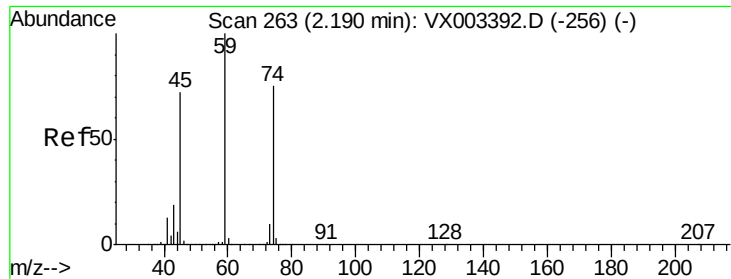
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.22 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

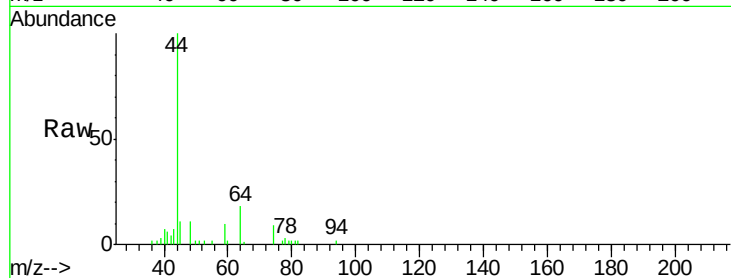
PB111123ZHE#13

Tot Ion: 74 Resp: 436

Ion Ratio Lower Upper

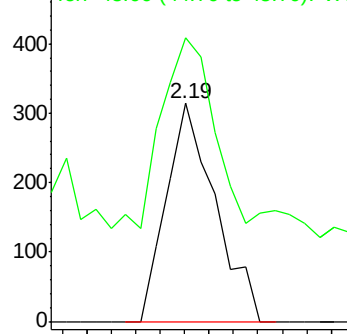
74 100

45 95.0 53.1 159.4

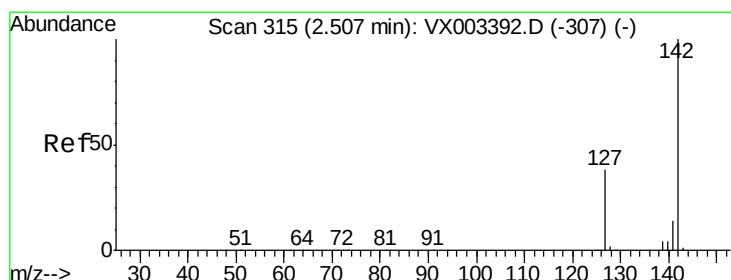
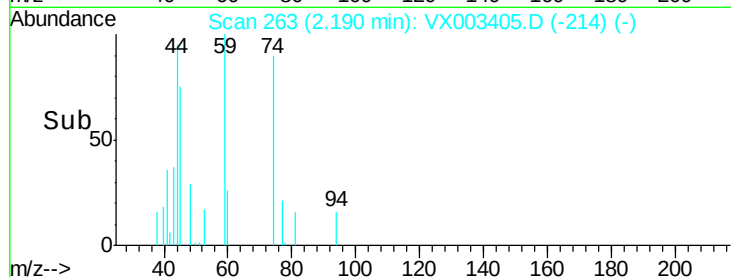


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 0.64 ug/l

RT: 2.53 min Scan# 315

Delta R.T. 0.02 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

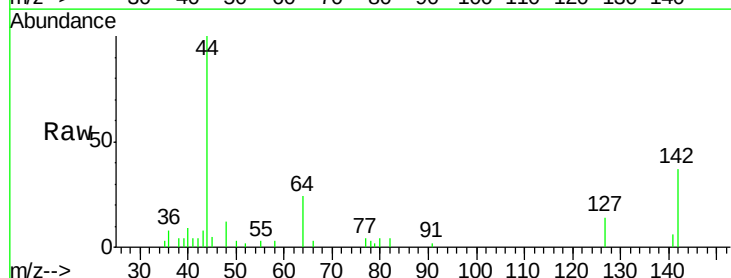
Tgt Ion: 142 Resp: 2052

Ion Ratio Lower Upper

142 100

127 41.6 36.6 55.0

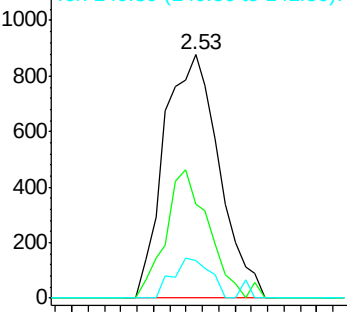
141 11.3 11.3 16.9#



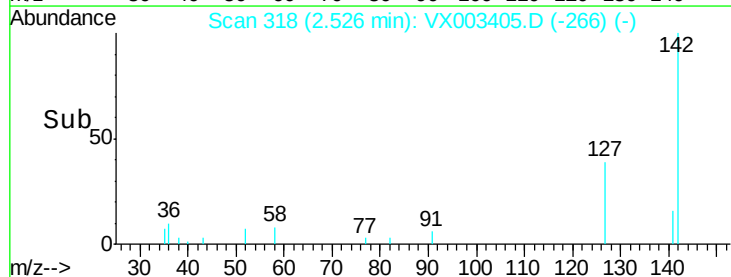
Abundance Ion 141.80 (141.50 to 142.50): V

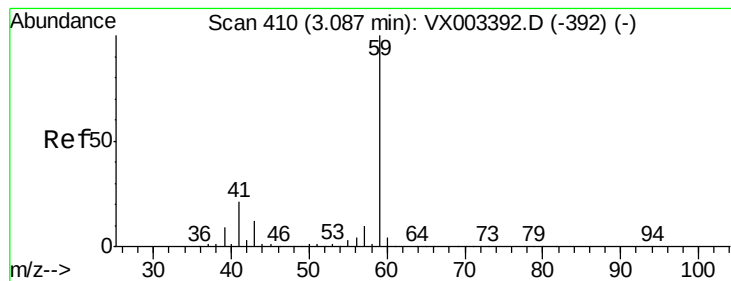
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 1.14 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

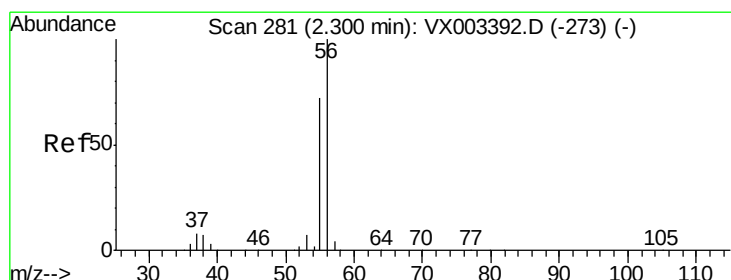
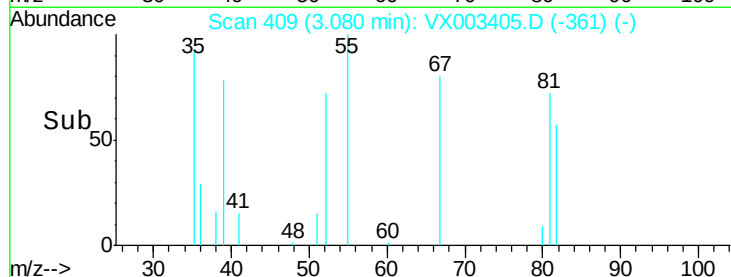
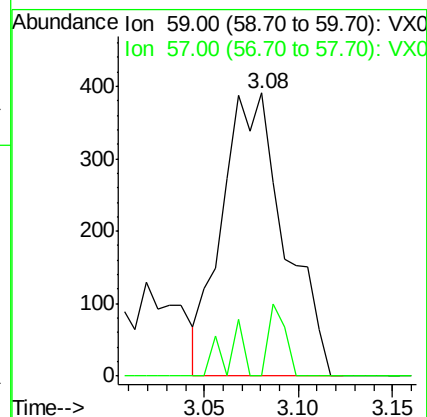
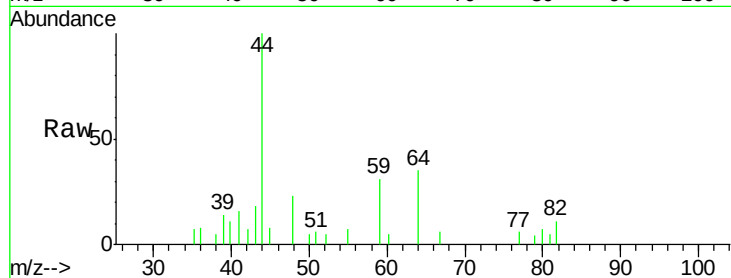
PB111123ZHE#13

Tot Ion: 59 Resp: 898

Ion Ratio Lower Upper

59 100

57 6.8 8.2 12.2#



#13

Acrolein

Concen: 0.75 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX003405.D

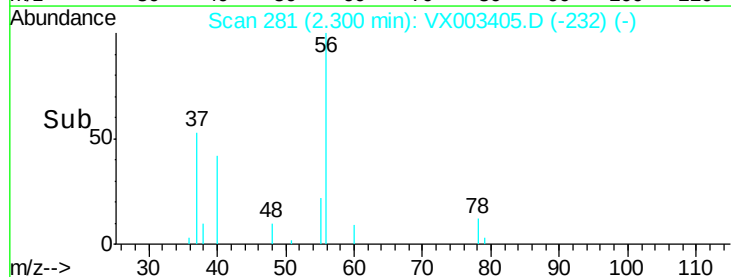
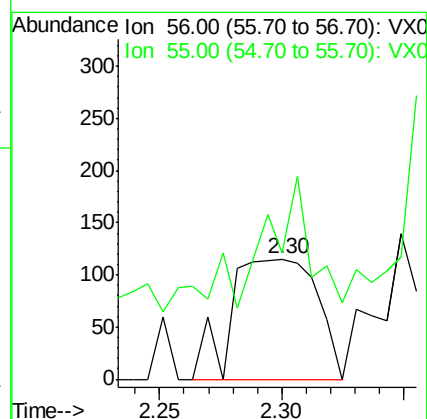
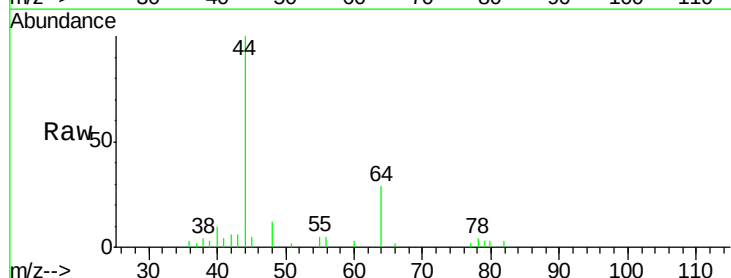
Acq: 16 Jul 2018 22:20

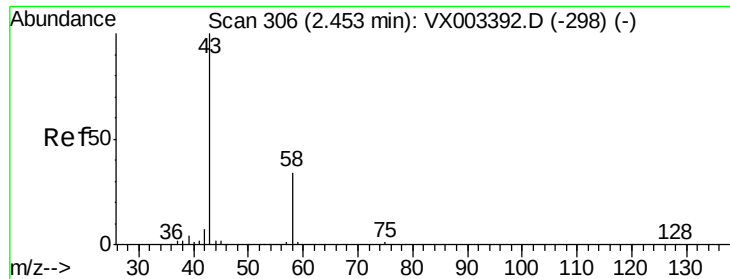
Tgt Ion: 56 Resp: 282

Ion Ratio Lower Upper

56 100

55 92.6 57.0 85.4#





#16

Acetone

Concen: 17.99 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

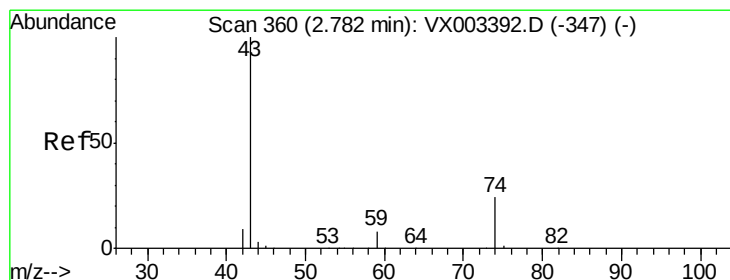
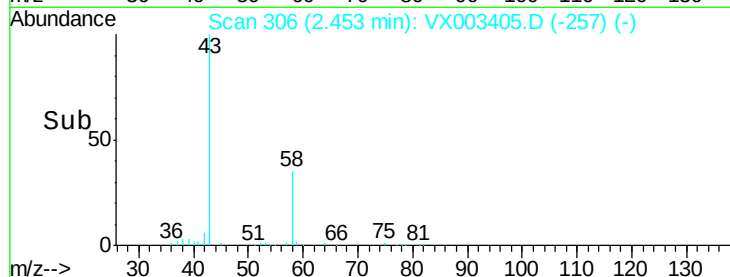
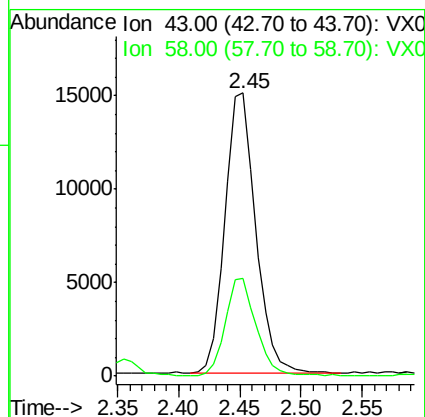
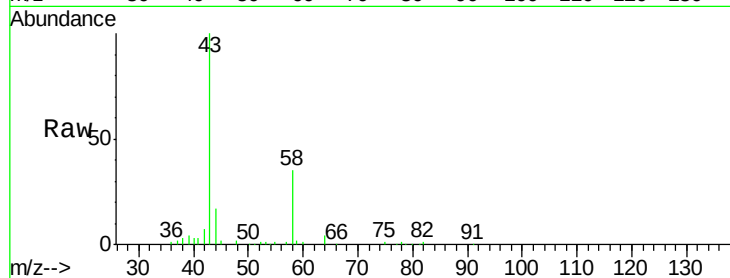
PB111123ZHE#13

Tot Ion: 43 Resp: 26170

Ion Ratio Lower Upper

43 100

58 35.1 22.1 33.1#



#18

Methyl Acetate

Concen: 2.16 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003405.D

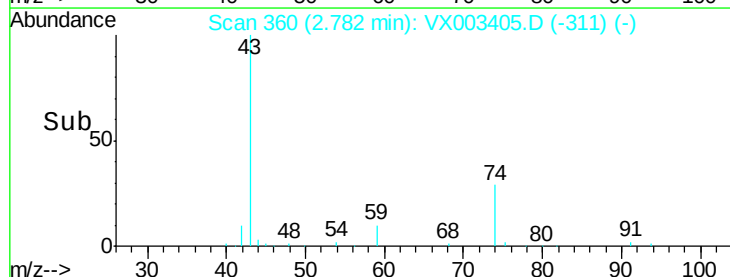
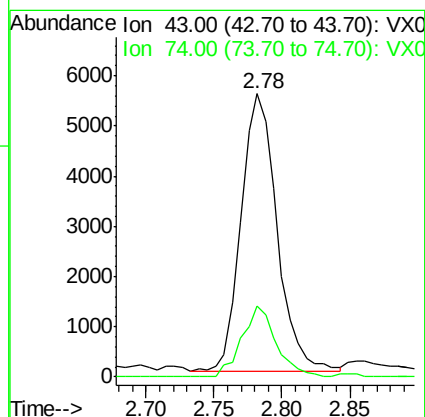
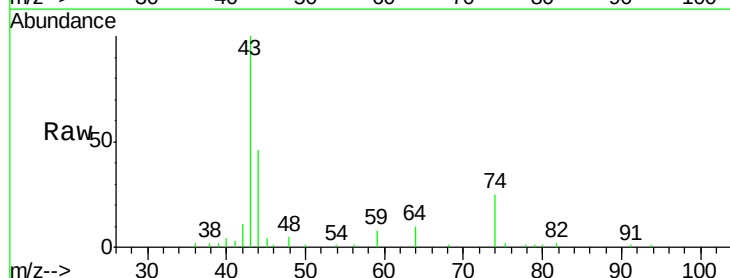
Acq: 16 Jul 2018 22:20

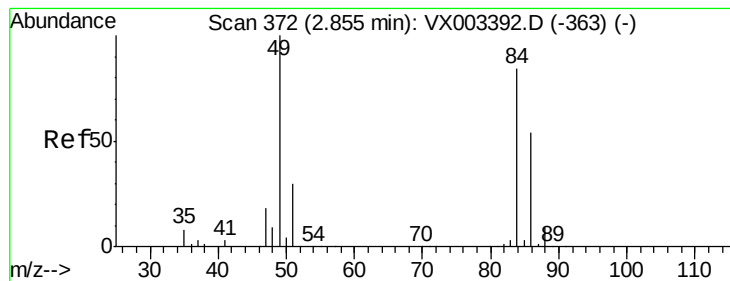
Tgt Ion: 43 Resp: 10255

Ion Ratio Lower Upper

43 100

74 24.3 16.7 25.1





#20

Methvlene Chloride

Concen: 9.05 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#13

Tot Ion: 84 Resp: 30591

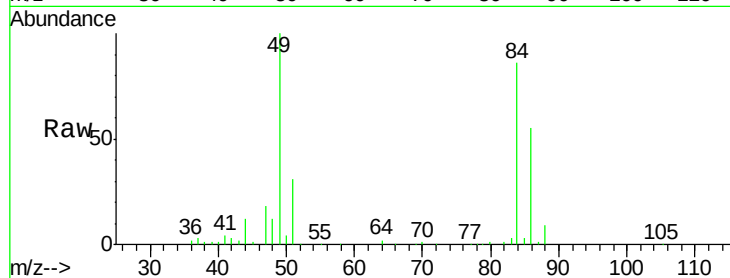
Ion Ratio Lower Upper

84 100

49 116.1 107.8 161.6

51 35.8 32.8 49.2

86 64.3 52.5 78.7

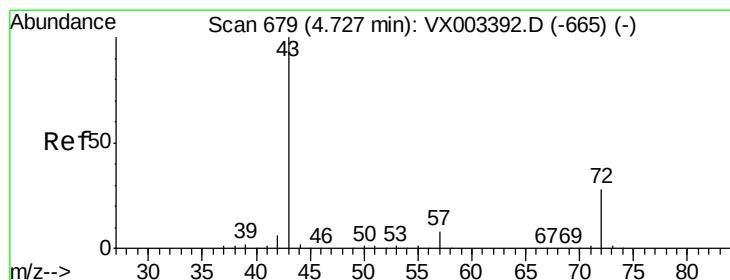
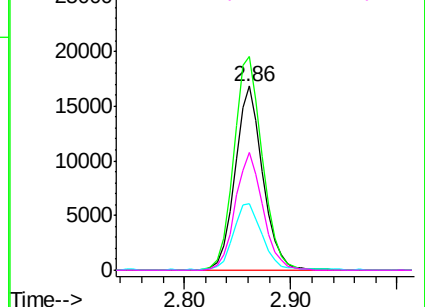
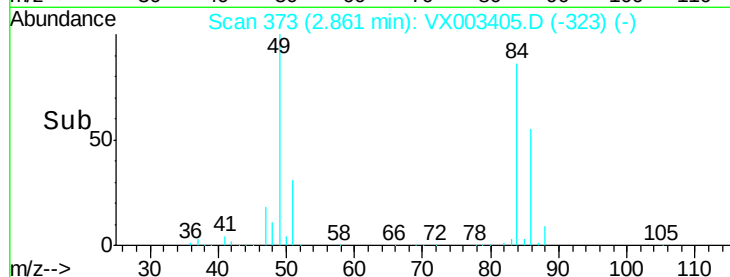


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 2.29 ug/l

RT: 4.73 min Scan# 679

Delta R.T. -0.00 min

Lab File: VX003405.D

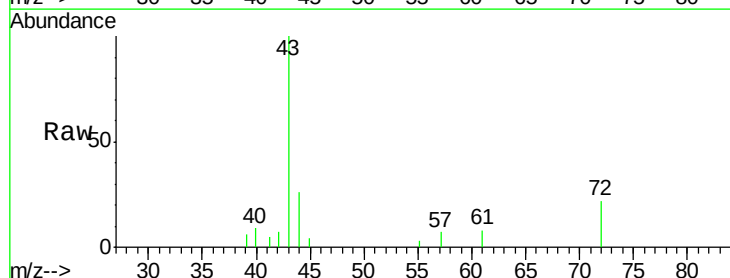
Acq: 16 Jul 2018 22:20

Tgt Ion: 43 Resp: 5209

Ion Ratio Lower Upper

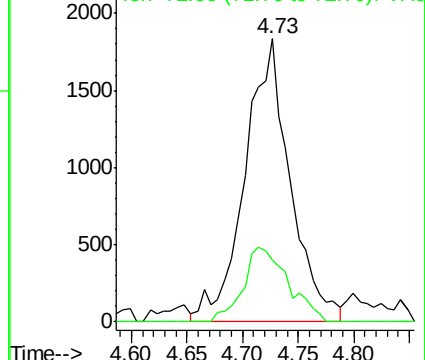
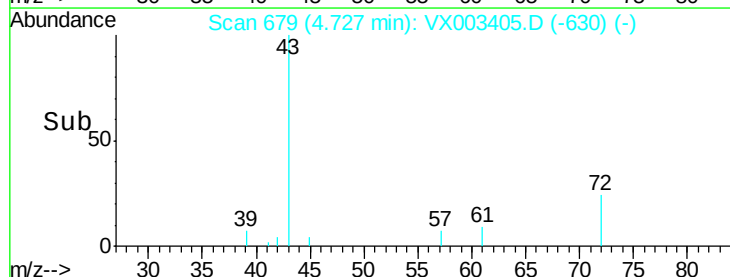
43 100

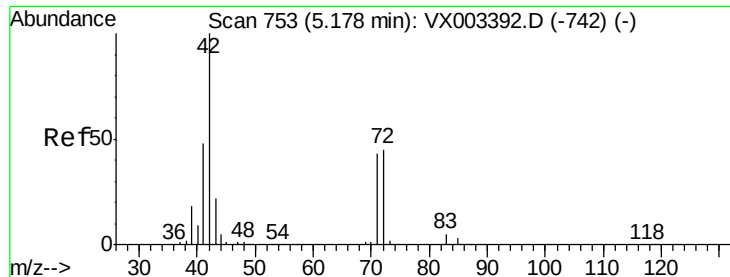
72 22.7 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.96 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

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PB111123ZHE#13

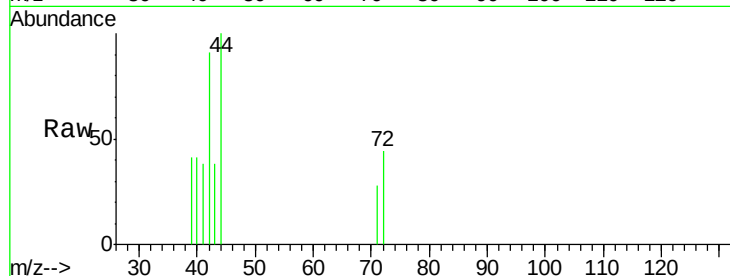
Tot Ion: 42 Resp: 1386

Ion Ratio Lower Upper

42 100

72 42.7 32.0 48.0

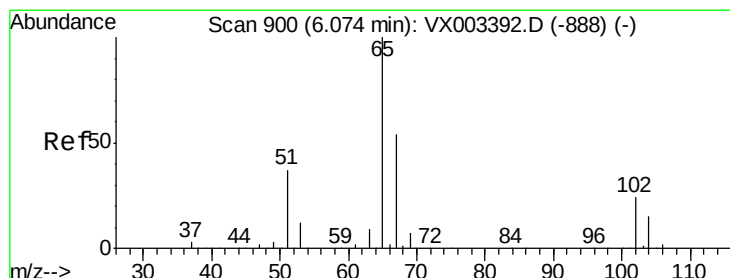
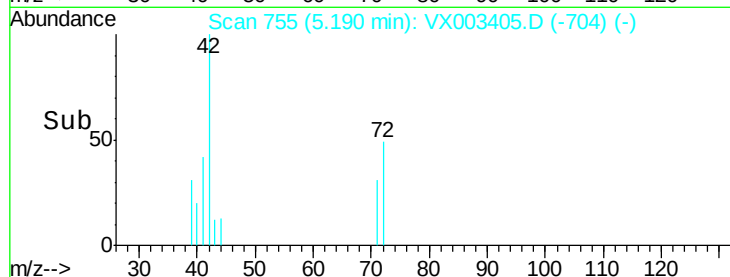
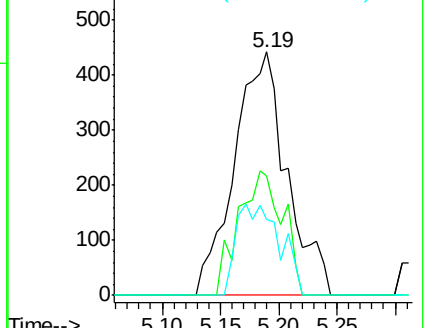
71 31.1 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.62 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX003405.D

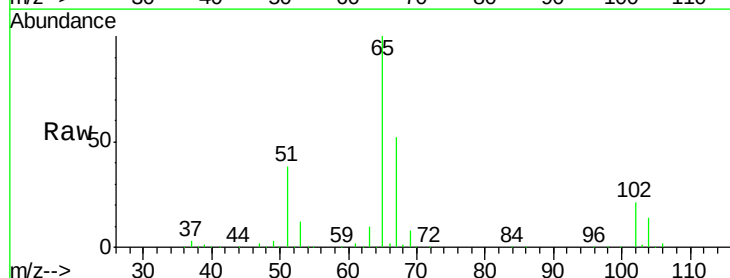
Acq: 16 Jul 2018 22:20

Tgt Ion: 65 Resp: 170046

Ion Ratio Lower Upper

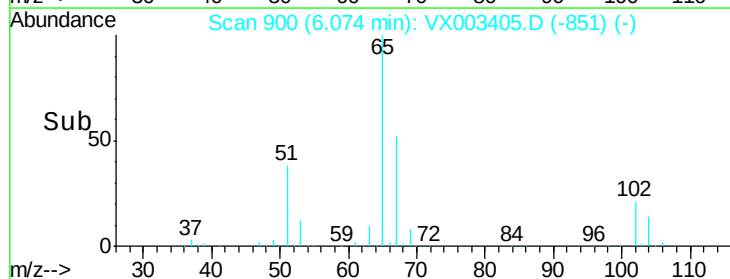
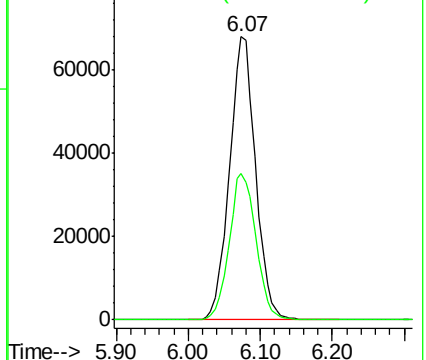
65 100

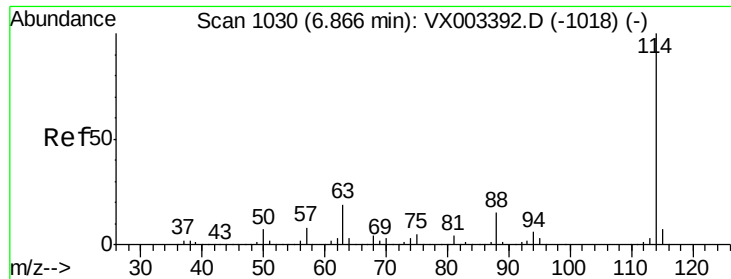
67 53.5 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#13

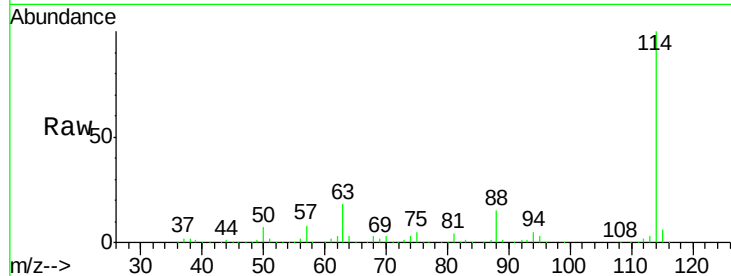
Tot Ion:114 Resp: 393300

Ion Ratio Lower Upper

114 100

63 18.5 0.0 41.4

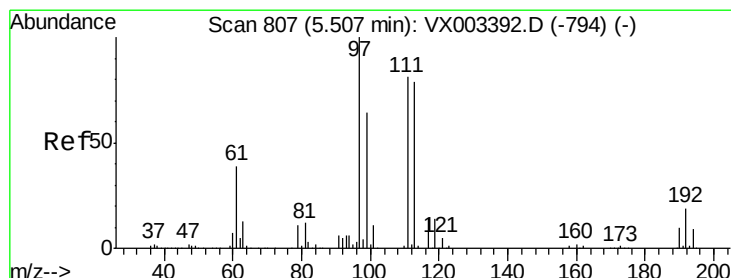
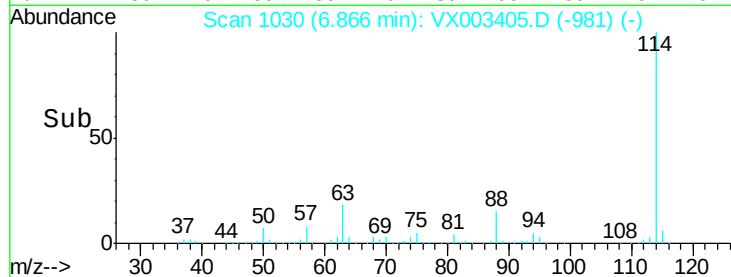
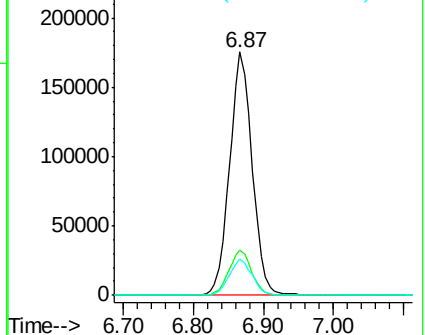
88 14.8 0.0 30.0



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: 47.33 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

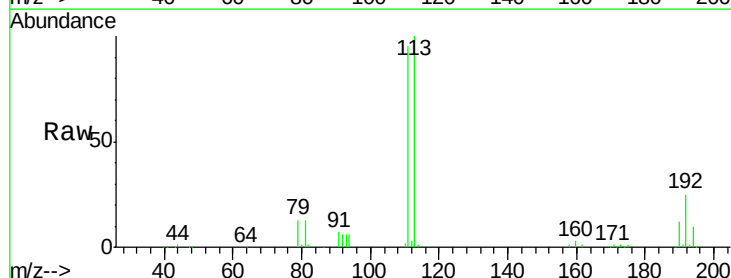
Tgt Ion:113 Resp: 150613

Ion Ratio Lower Upper

113 100

111 101.0 81.4 122.0

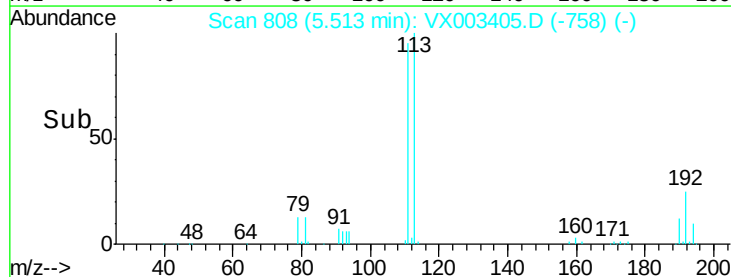
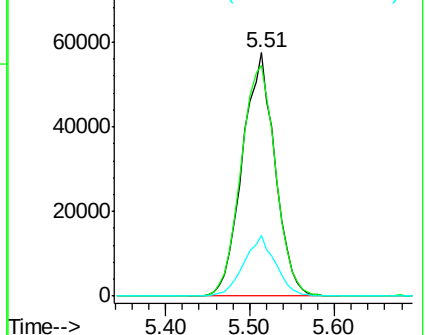
192 23.9 19.1 28.7

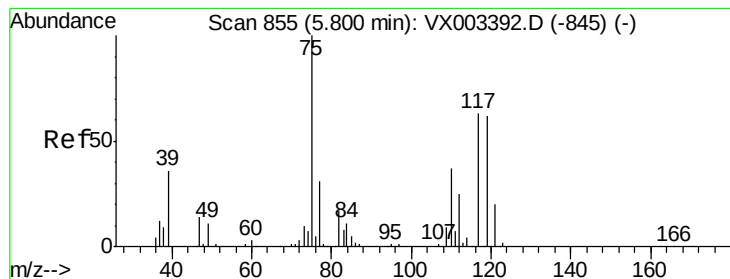


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.08 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#13

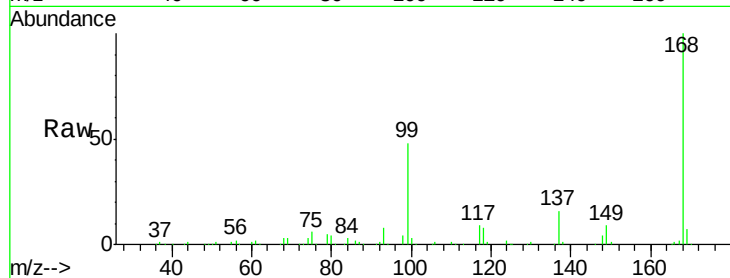
Tot Ion: 75 Resp: 16258

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.4#

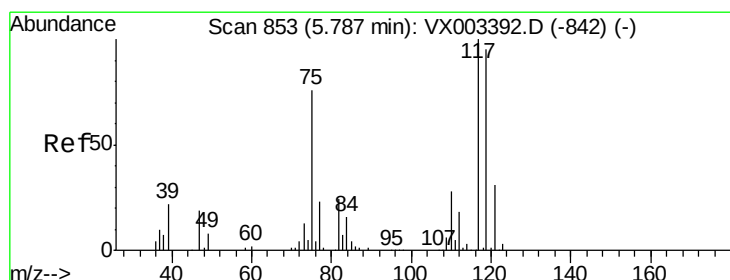
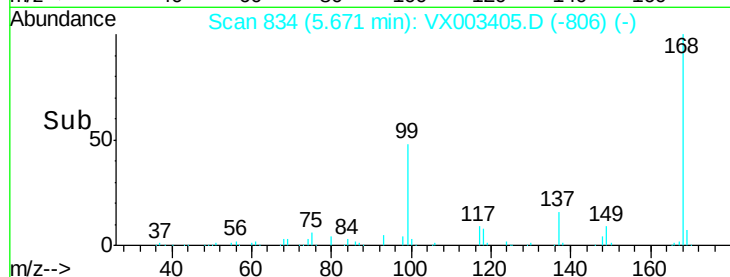
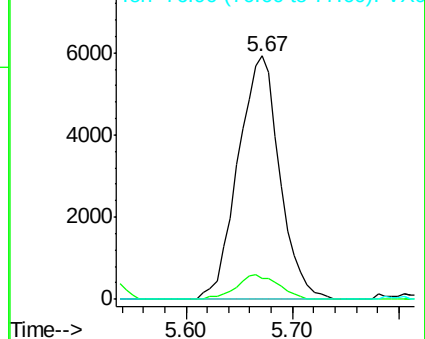
77 0.0 24.3 36.5#



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: 5.55 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

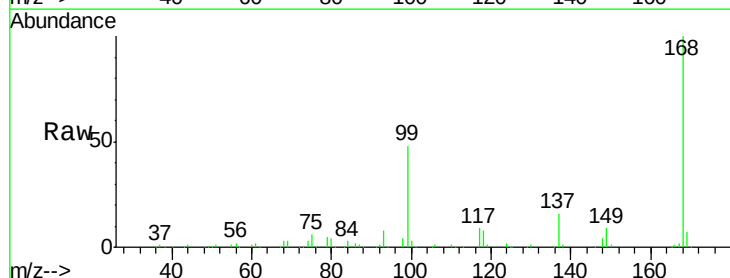
Tgt Ion: 117 Resp: 22477

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

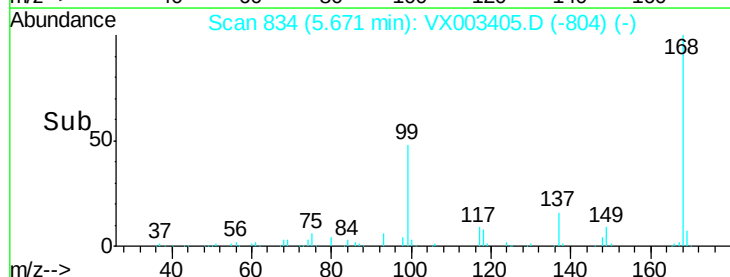
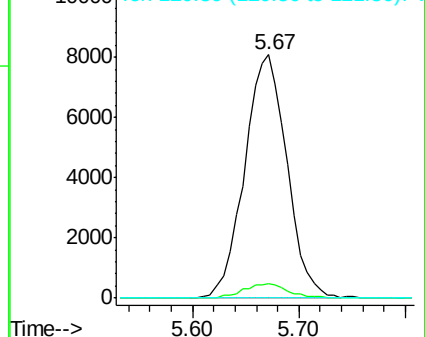
121 0.0 24.4 36.6#

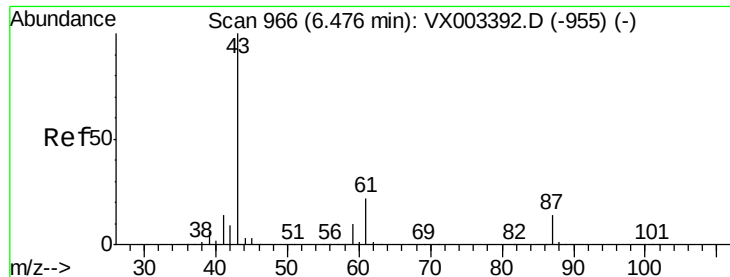


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 19.13 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#13

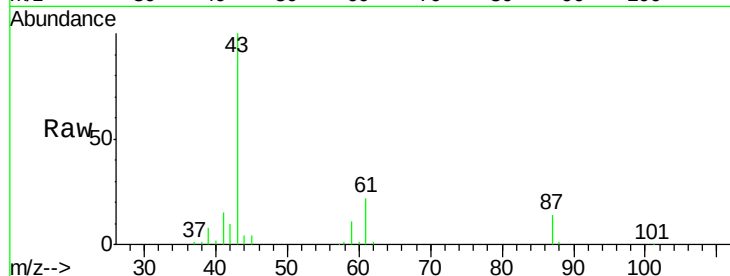
Tot Ion: 43 Resp: 129564

Ion Ratio Lower Upper

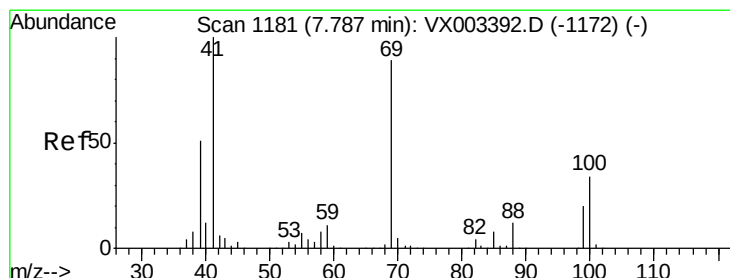
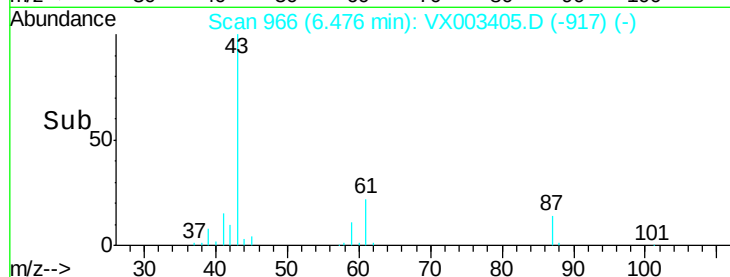
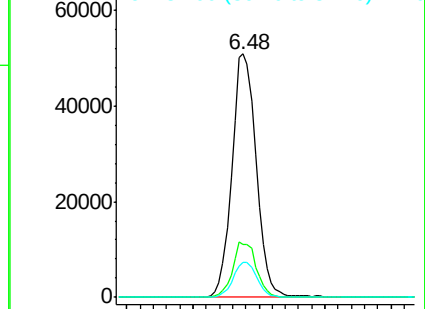
43 100

61 22.0 14.4 21.6#

87 14.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 0.48 ug/l

RT: 7.78 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

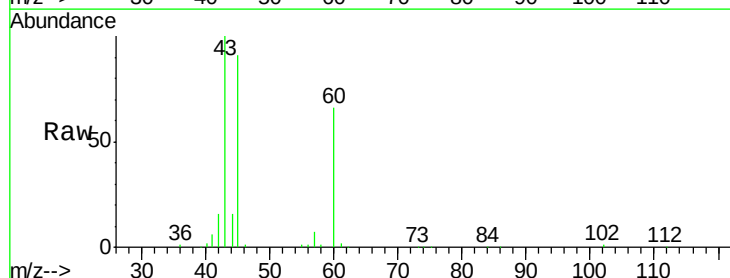
Tgt Ion: 41 Resp: 1673

Ion Ratio Lower Upper

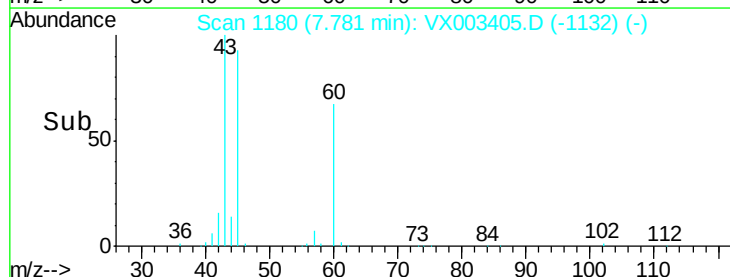
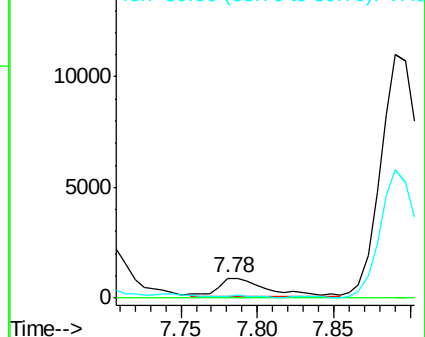
41 100

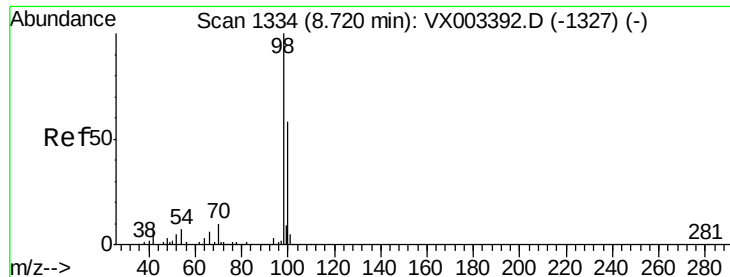
69 0.0 59.1 88.7#

39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

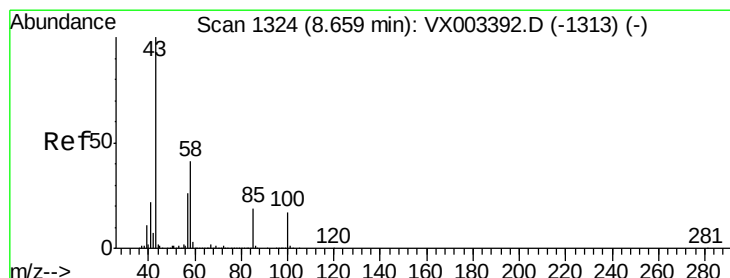
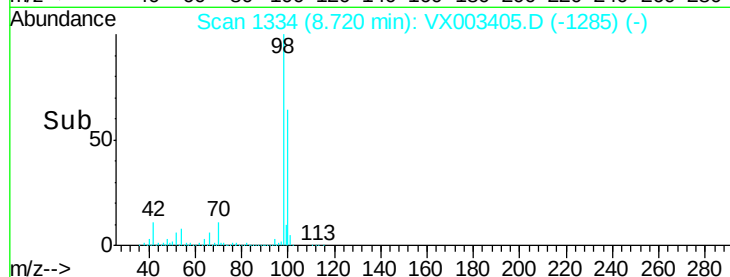
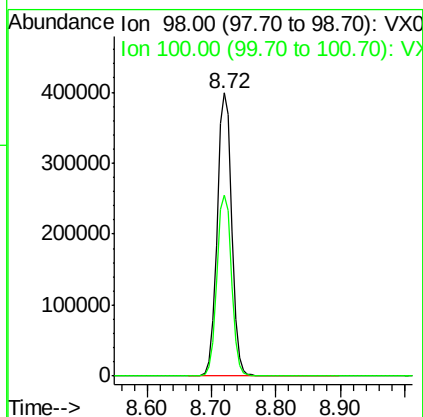
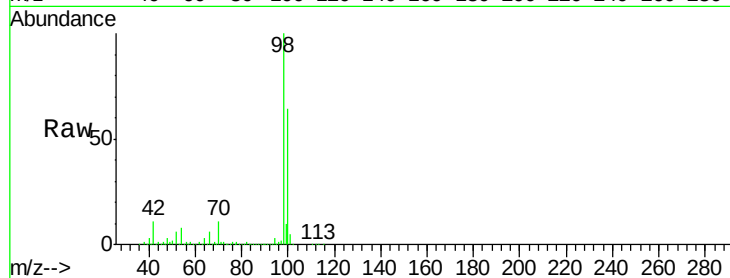




#50
Toluene-d8
Concen: 54.26 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003405.D
Acq: 16 Jul 2018 22:20

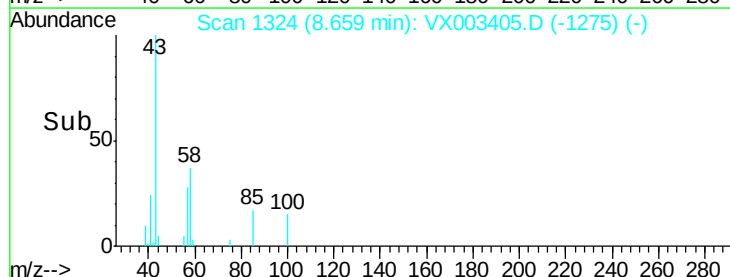
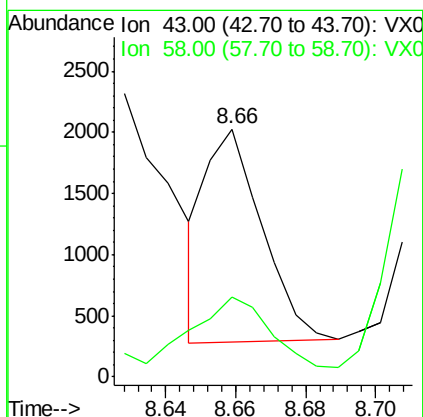
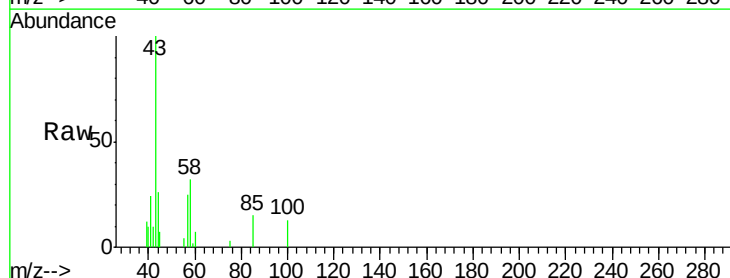
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#13

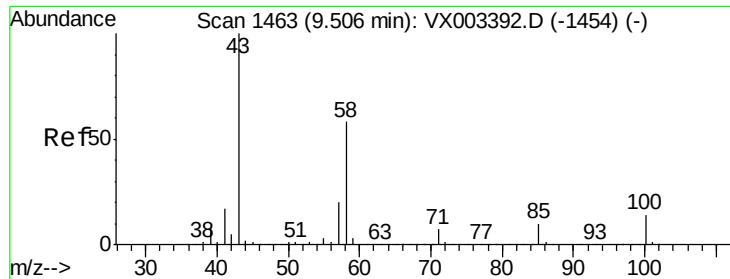
Tot Ion: 98 Resp: 637231
Ion Ratio Lower Upper
98 100
100 64.6 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.44 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VX003405.D
Acq: 16 Jul 2018 22:20

Tgt Ion: 43 Resp: 1945
Ion Ratio Lower Upper
43 100
58 68.0 28.6 42.8#

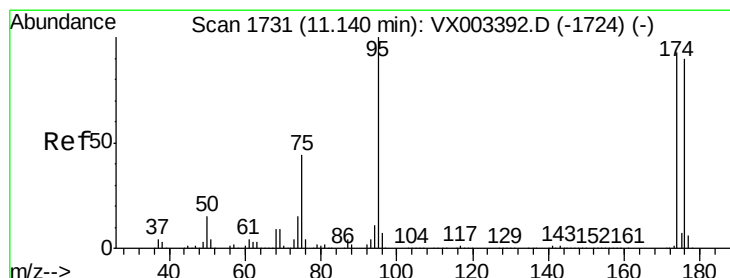
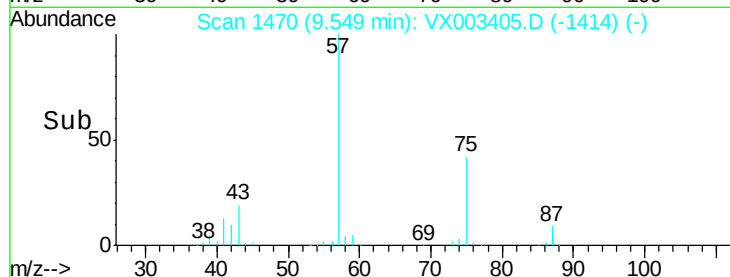
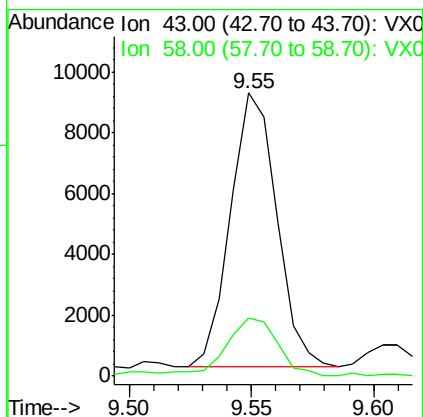
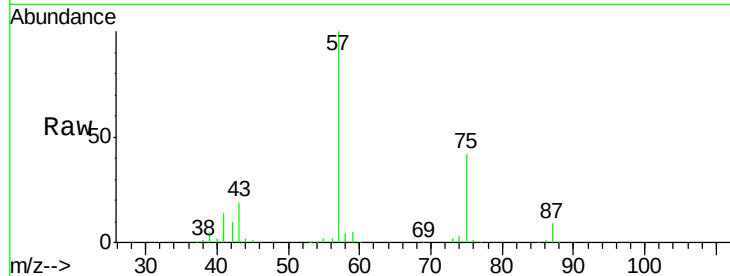




#59
2-Hexanone
Concen: 3.45 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003405.D
Acq: 16 Jul 2018 22:20

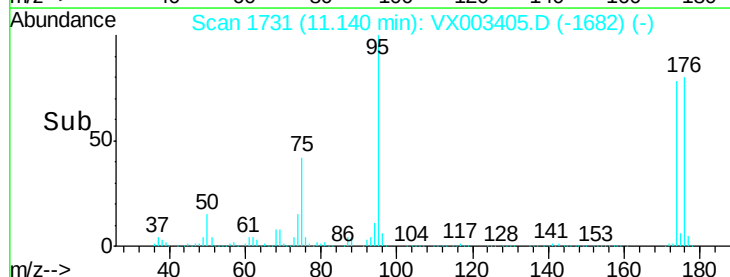
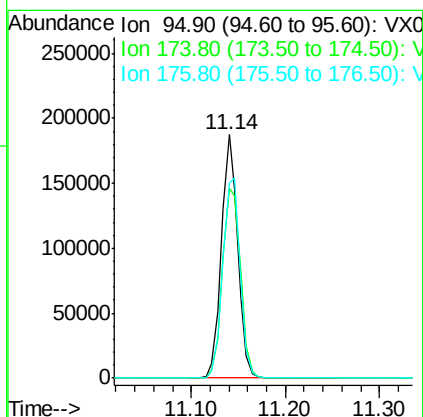
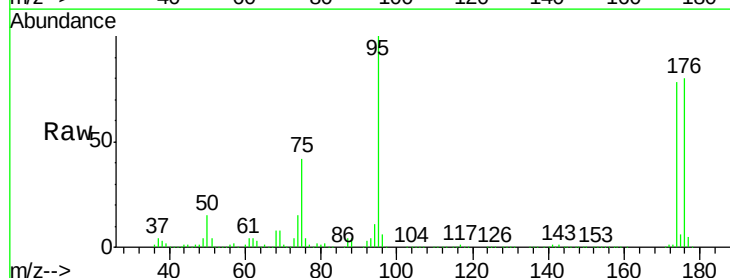
Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#13

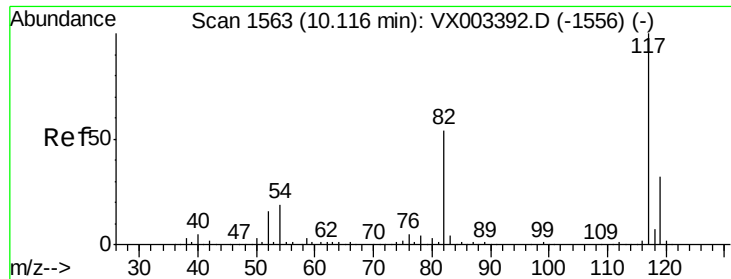
Tot Ion: 43 Resp: 11835
Ion Ratio Lower Upper
43 100
58 23.1 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 53.39 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003405.D
Acq: 16 Jul 2018 22:20

Tgt Ion: 95 Resp: 223836
Ion Ratio Lower Upper
95 100
174 87.4 0.0 187.4
176 87.9 0.0 181.0

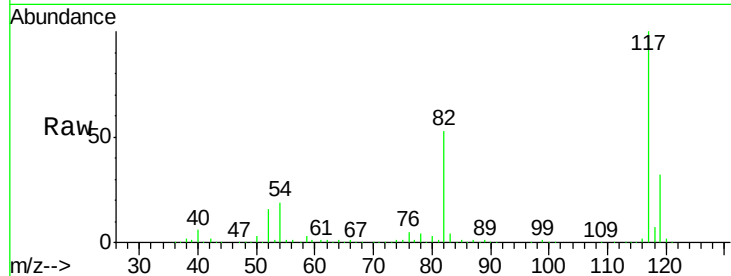




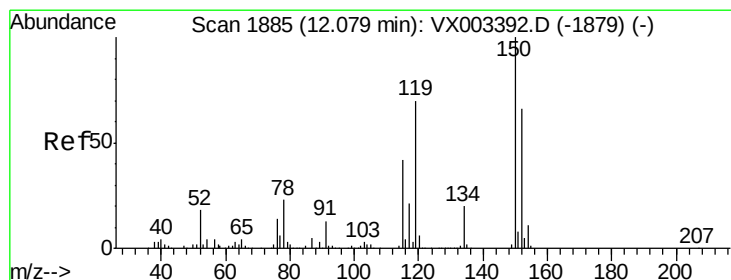
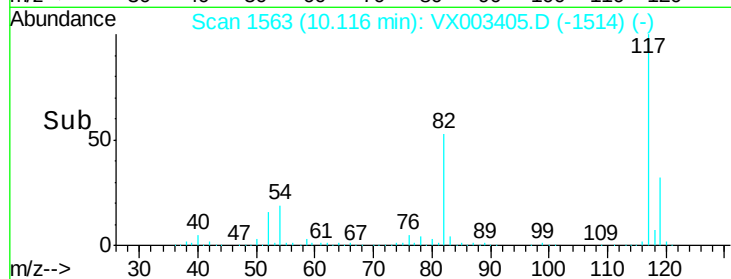
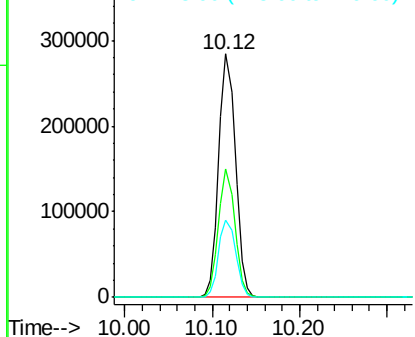
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003405.D
Acq: 16 Jul 2018 22:20

Instrument :
MSVOA_X
ClientSampleId :
PB111123ZHE#13

Tot Ion:117 Resp: 377013
Ion Ratio Lower Upper
117 100
82 52.9 45.0 67.4
119 32.0 25.8 38.6

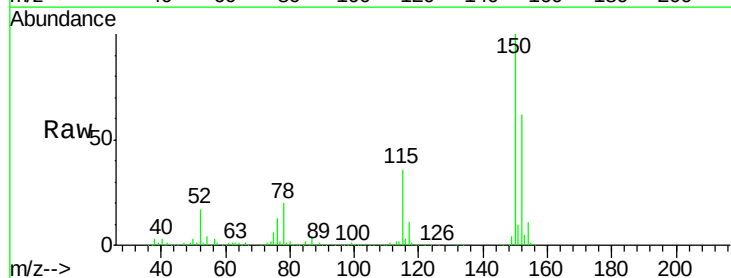


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

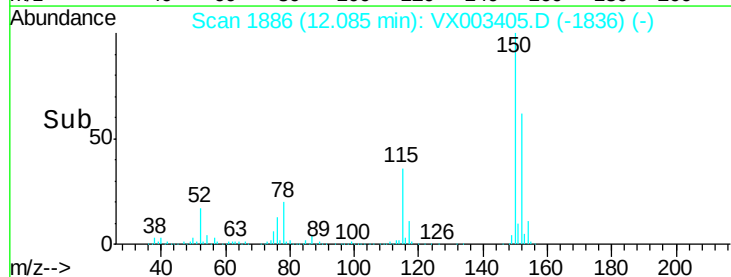
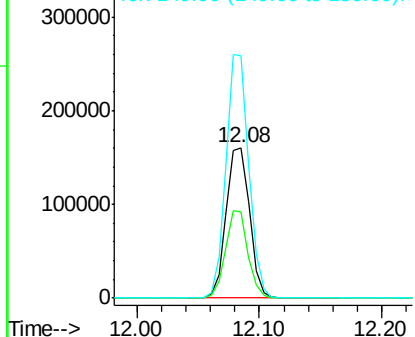


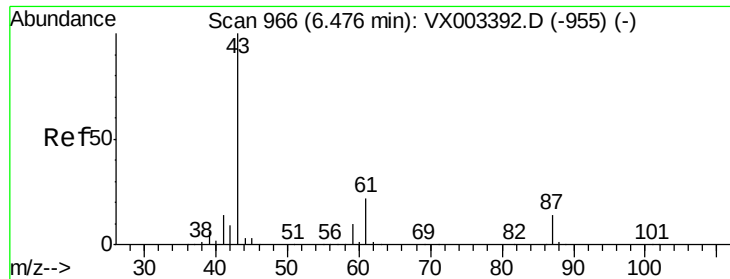
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003405.D
Acq: 16 Jul 2018 22:20

Tgt Ion:152 Resp: 211150
Ion Ratio Lower Upper
152 100
115 55.5 40.1 120.2
150 157.4 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





#74

N-amvl acetate

Concen: 19.93 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#13

Tot Ion: 43 Resp: 129564

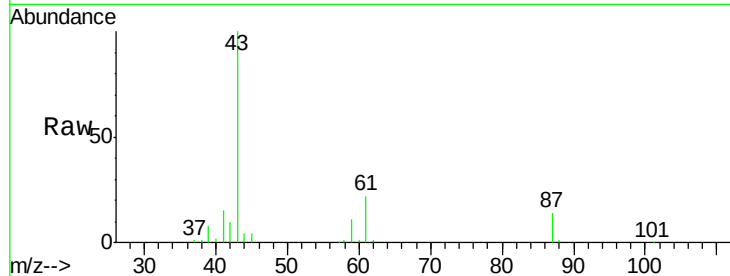
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0#

61 22.0 14.4 21.6#

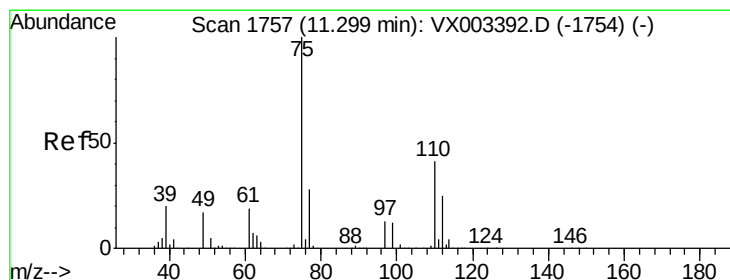
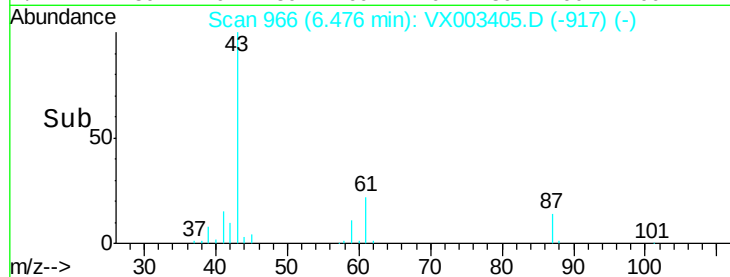
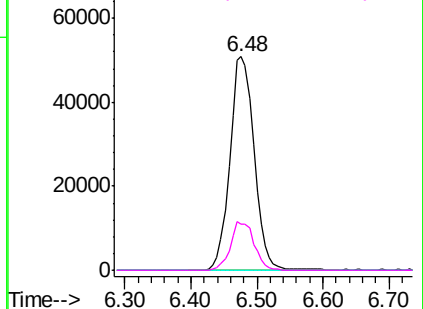


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003405.D

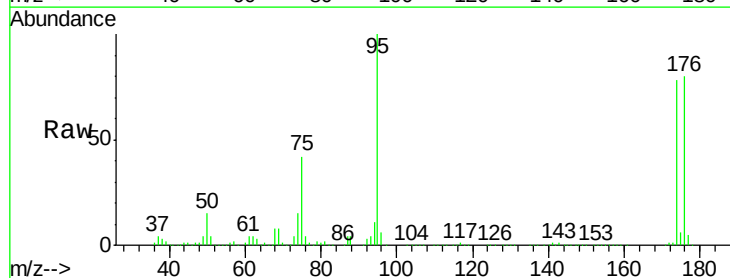
Acq: 16 Jul 2018 22:20

Tgt Ion: 75 Resp: 98232

Ion Ratio Lower Upper

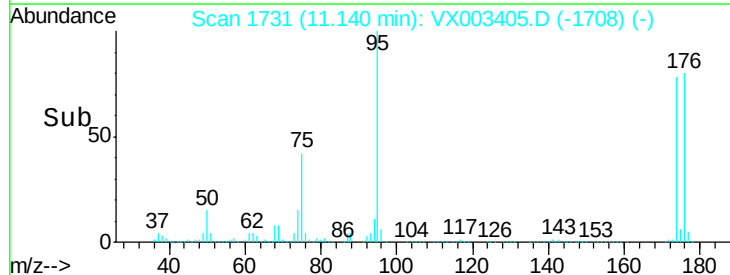
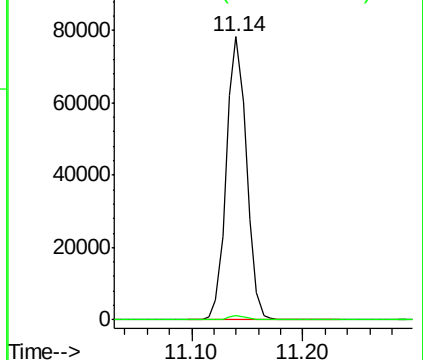
75 100

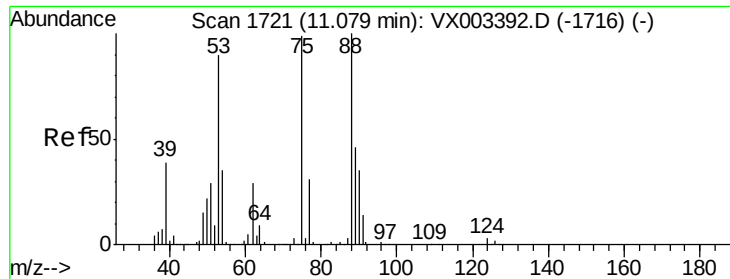
77 1.3 22.8 68.3#



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: 83.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

Instrument :

MSVOA_X

ClientSampleId :

PB111123ZHE#13

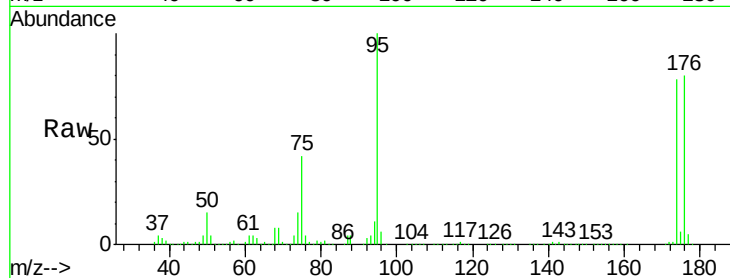
Tot Ion: 75 Resp: 98232

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

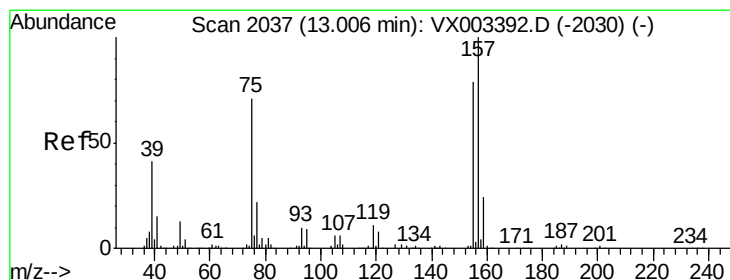
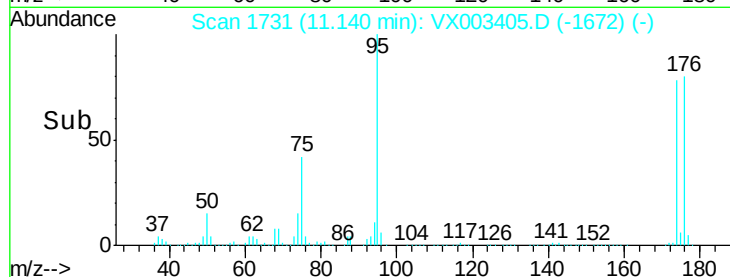
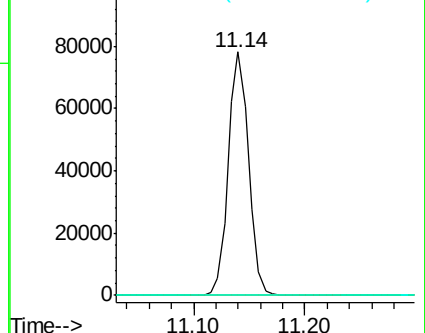
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.30 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003405.D

Acq: 16 Jul 2018 22:20

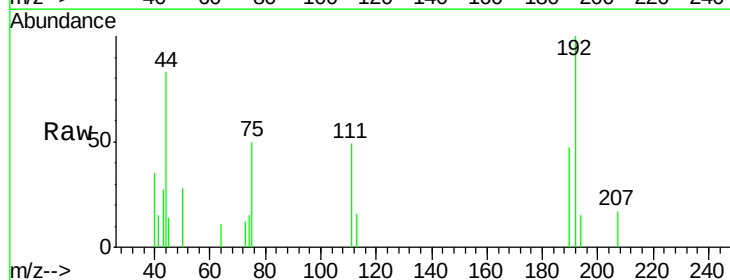
Tgt Ion: 75 Resp: 282

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

