

Data File : VX001689.D

Acq On : 13 May 2018 01:34

Operator : JC/MD

Sample : PB109200ZHE#05

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB109200ZHE#05

Quant Time: May 14 06:09:45 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M

Quant Title : SW846 8260

QLast Update : Sun May 06 07:59:25 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	273039	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	369445	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	322929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	171808	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	180214	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	
35) Dibromofluoromethane	5.51	113	143630	43.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.42%	
50) Toluene-d8	8.72	98	511669	42.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.32%	
62) 4-Bromofluorobenzene	11.14	95	162233	35.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.46%	

Target Compounds

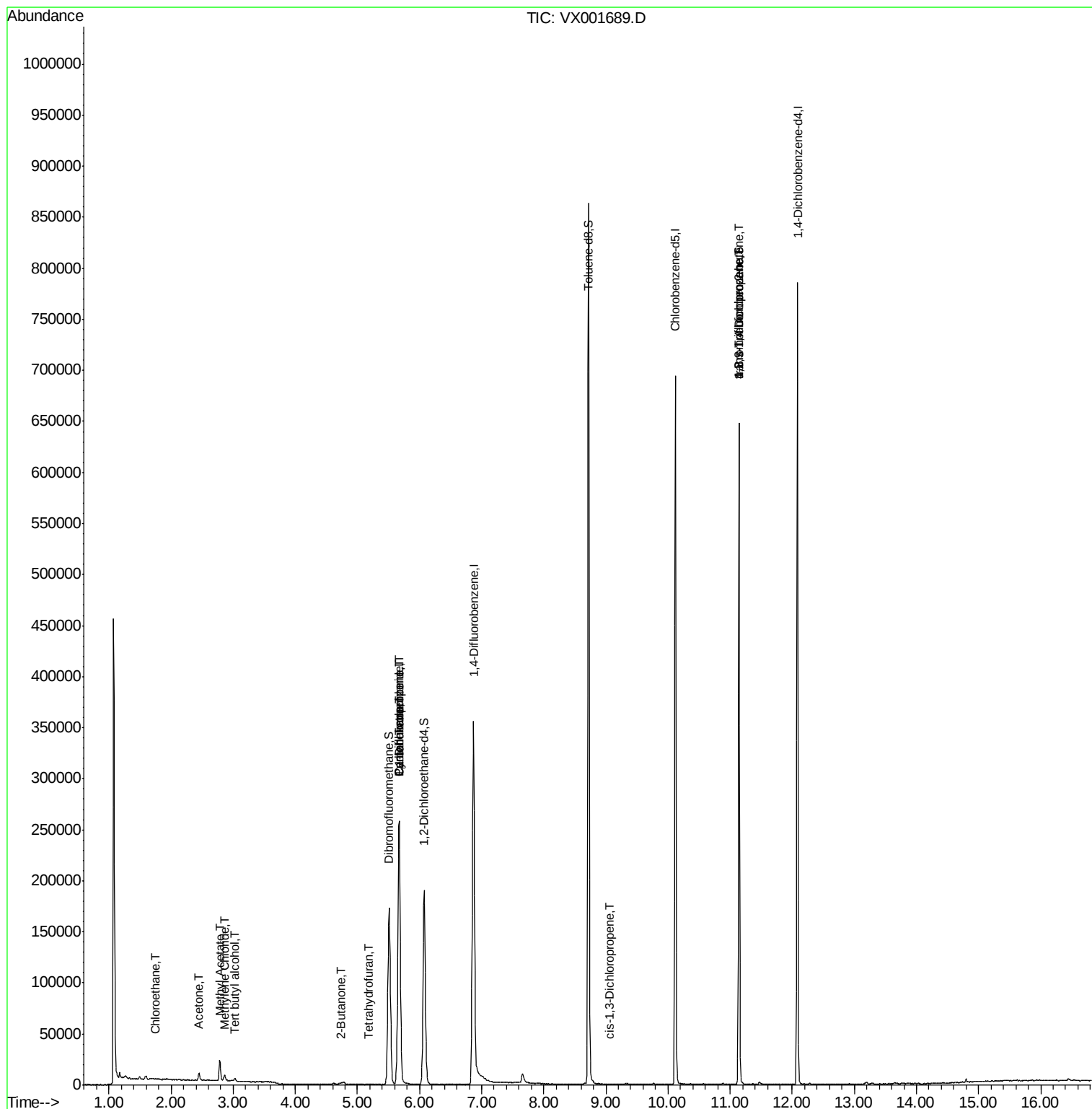
						Qvalue
5) Bromomethane	1.66	94	1223	Below Cal	#	80
6) Chloroethane	1.75	64	2624	1.06	ug/l #	48
11) Tert butyl alcohol	3.03	59	1546	1.87	ug/l #	80
13) Acrolein	2.29	56	138	Below Cal	#	65
16) Acetone	2.45	43	7722	4.33	ug/l	95
18) Methyl Acetate	2.78	43	23271	4.97	ug/l	100
20) Methylene Chloride	2.86	84	2761	0.78	ug/l	96
25) 2-Butanone	4.73	43	1999	0.78	ug/l	96
29) Tetrahydrofuran	5.18	42	775	0.47	ug/l #	43
31) Cyclohexane	5.67	56	4565	0.90	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16773	3.57	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23403	4.67	ug/l #	16
54) cis-1,3-Dichloropropene	9.06	75	27	2.27	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	78777	22.61	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	78777	70.19	ug/l #	7

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

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Quant Time: May 14 06:09:45 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

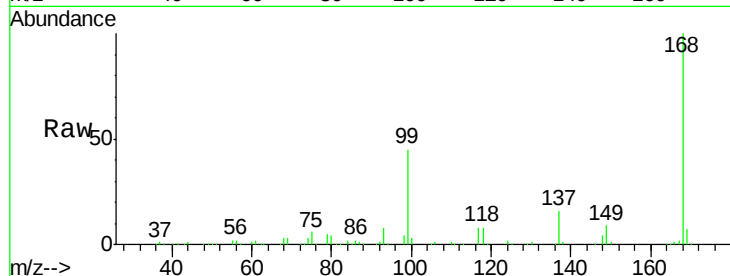
PB109200ZHE#05

Tgt Ion:168 Resp: 273039

Ion Ratio Lower Upper

168 100

99 45.2 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

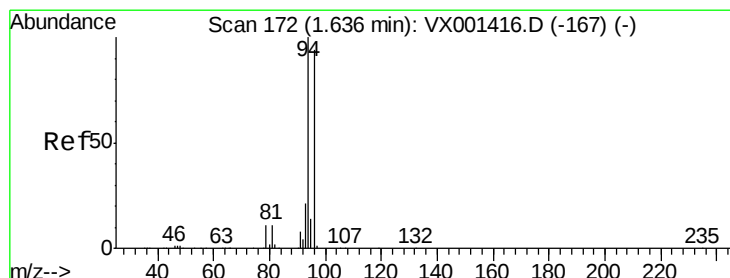
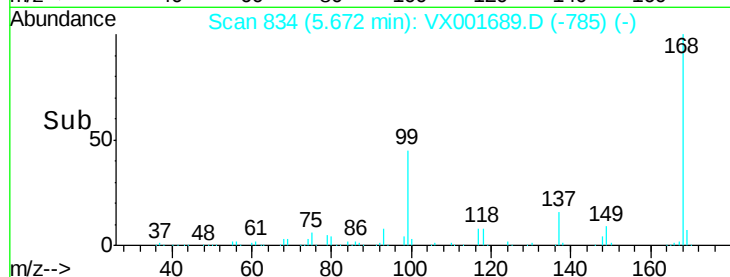
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001689.D

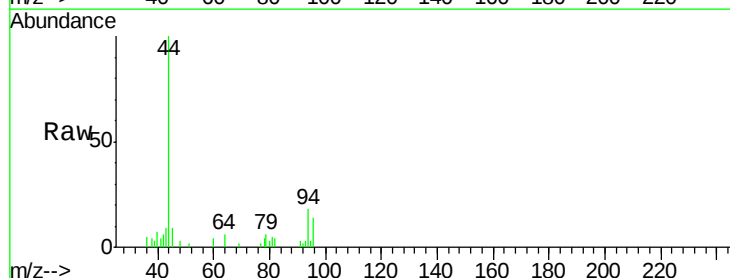
Acq: 13 May 2018 01:34

Tgt Ion: 94 Resp: 1223

Ion Ratio Lower Upper

94 100

96 74.4 75.0 112.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

600

500

400

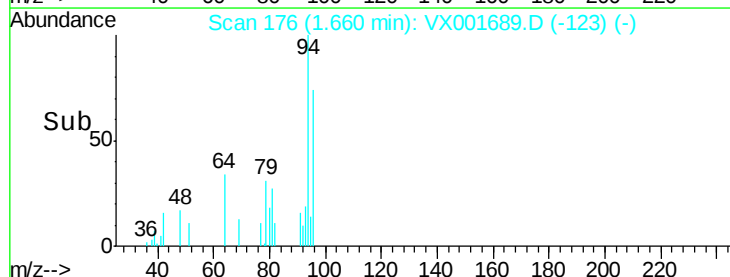
300

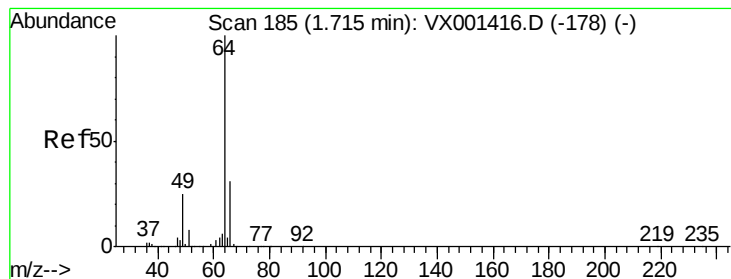
200

100

0

Time--> 1.55 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 1.06 ug/l

RT: 1.75 min Scan# 191

Delta R.T. 0.04 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

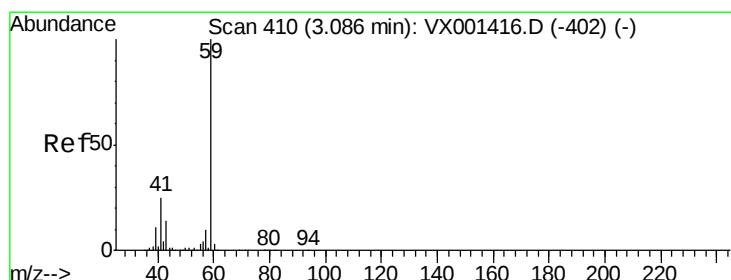
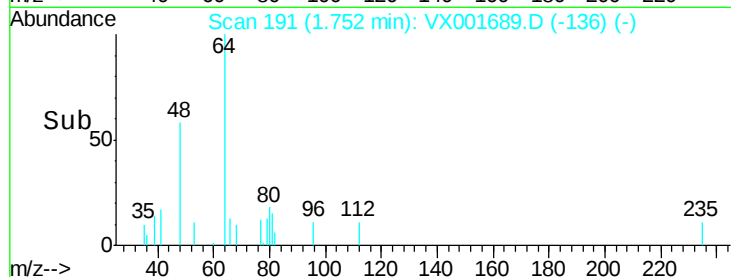
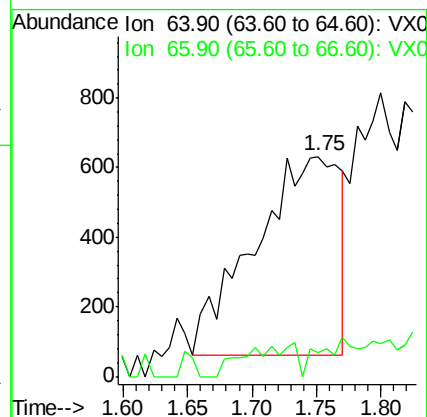
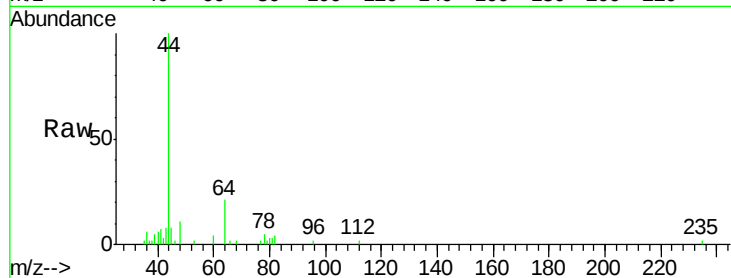
PB109200ZHE#05

Tgt Ion: 64 Resp: 2624

Ion Ratio Lower Upper

64 100

66 2.5 25.1 37.7#



#11

Tert butyl alcohol

Concen: 1.87 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.06 min

Lab File: VX001689.D

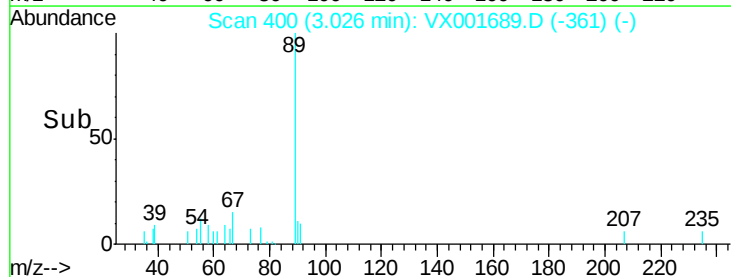
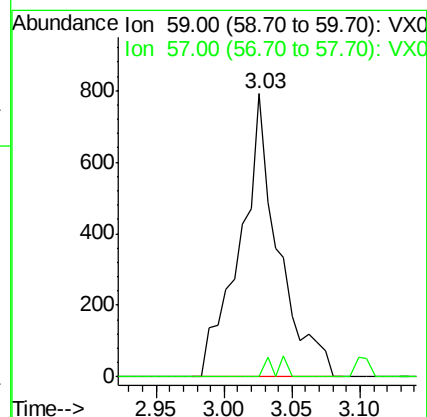
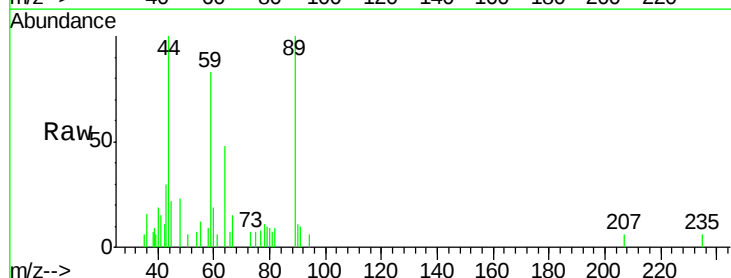
Acq: 13 May 2018 01:34

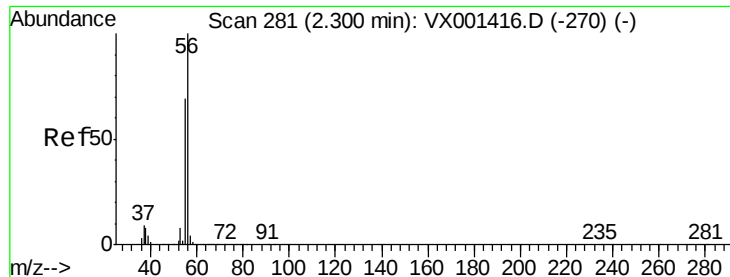
Tgt Ion: 59 Resp: 1546

Ion Ratio Lower Upper

59 100

57 2.7 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

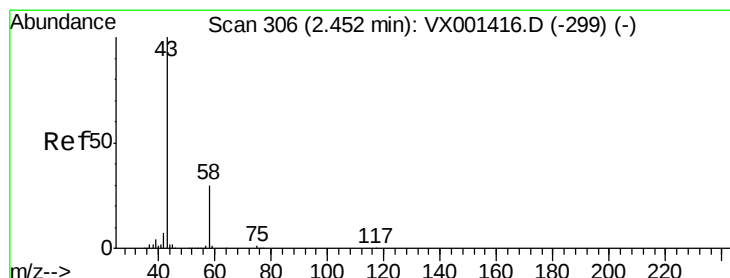
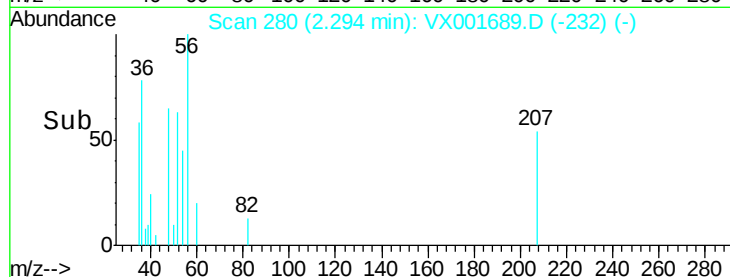
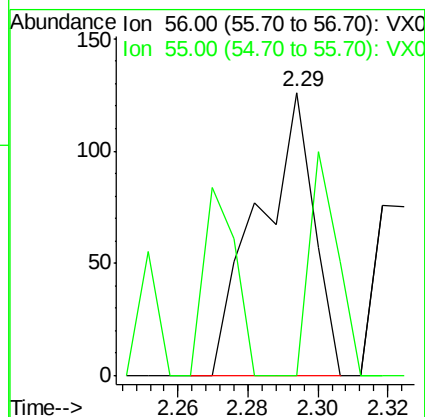
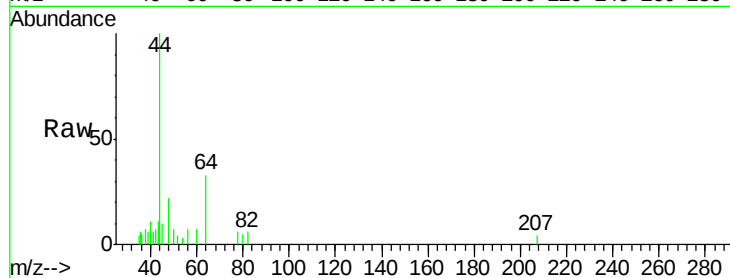
PB109200ZHE#05

Tgt Ion: 56 Resp: 138

Ion Ratio Lower Upper

56 100

55 39.9 54.5 81.7#



#16

Acetone

Concen: 4.33 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001689.D

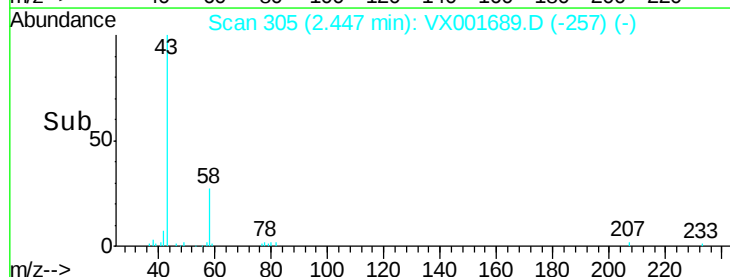
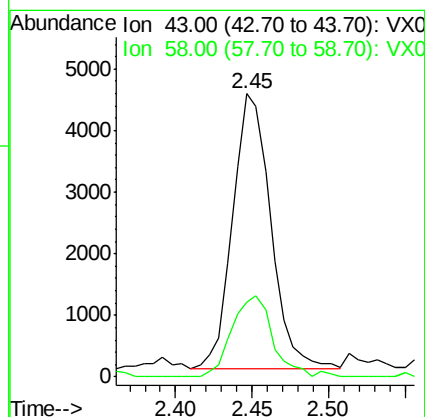
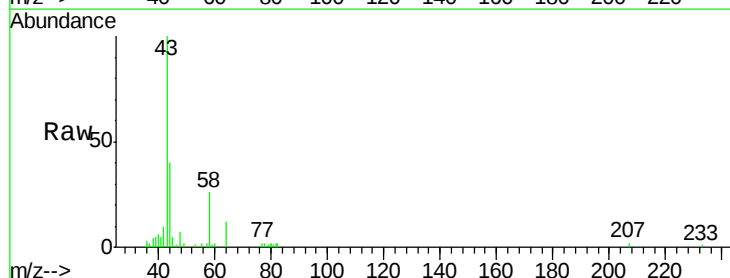
Acq: 13 May 2018 01:34

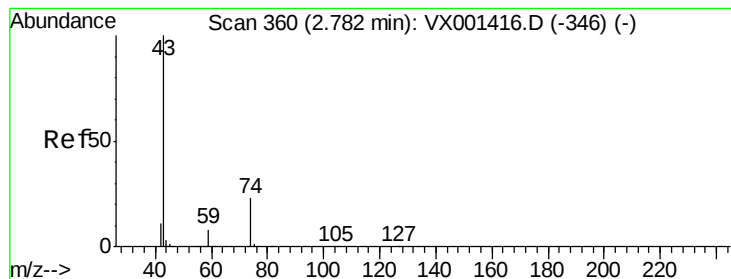
Tgt Ion: 43 Resp: 7722

Ion Ratio Lower Upper

43 100

58 27.2 23.8 35.8





#18

Methyl Acetate

Concen: 4.97 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

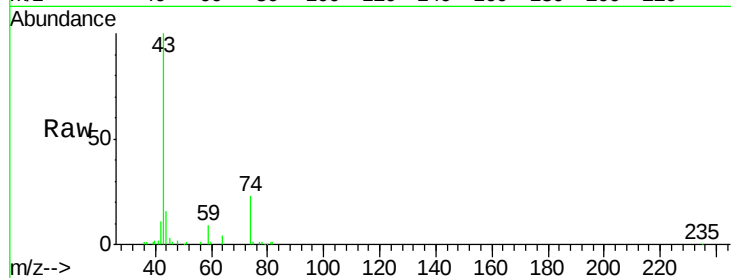
PB109200ZHE#05

Tgt Ion: 43 Resp: 23271

Ion Ratio Lower Upper

43 100

74 23.3 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

15000

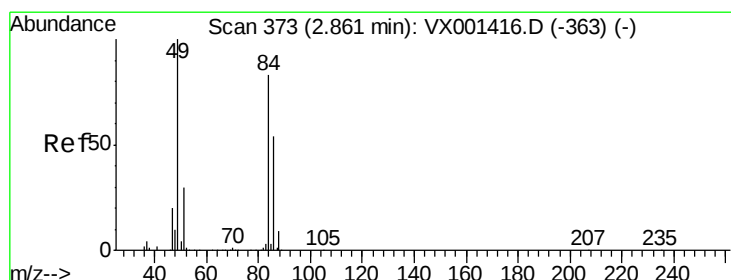
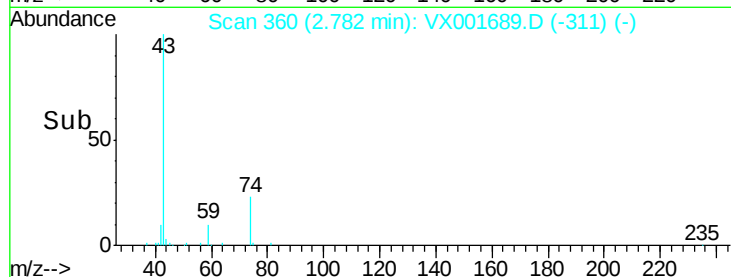
10000

5000

0

Time-->

2.70 2.75 2.80 2.85 2.90



#20

Methylene Chloride

Concen: 0.78 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Tgt Ion: 84 Resp: 2761

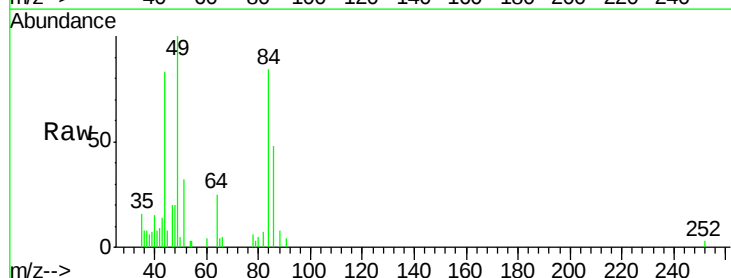
Ion Ratio Lower Upper

84 100

49 119.7 96.6 144.8

51 38.6 29.0 43.4

86 58.1 52.2 78.4



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

2500

2000

1500

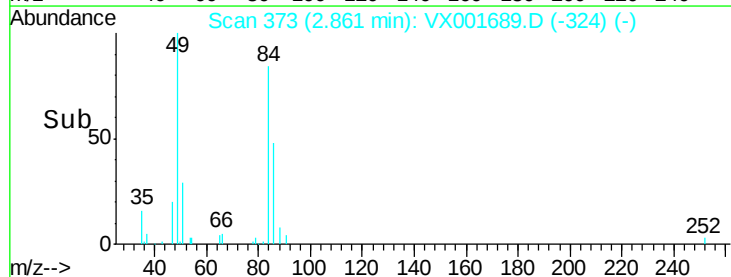
1000

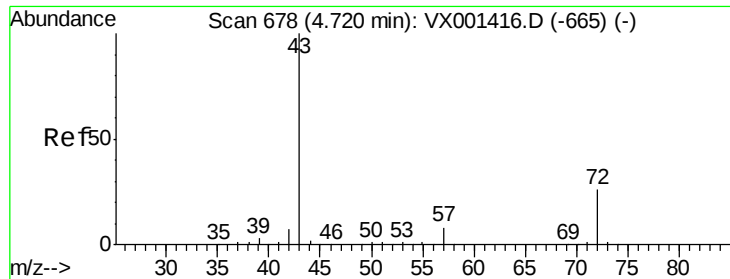
500

0

Time-->

2.80 2.85 2.90 2.95





#25

2-Butanone

Concen: 0.78 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

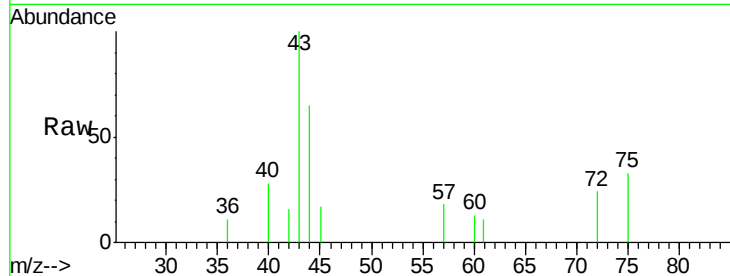
PB109200ZHE#05

Tgt Ion: 43 Resp: 1999

Ion Ratio Lower Upper

43 100

72 24.1 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.73

600

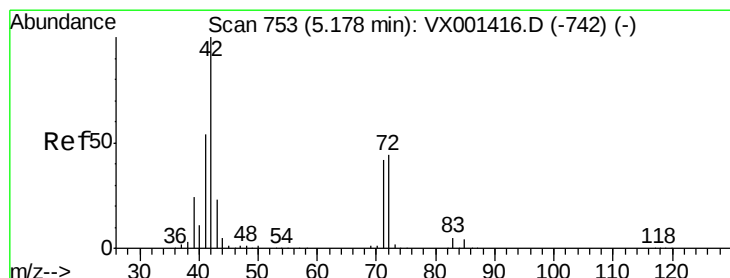
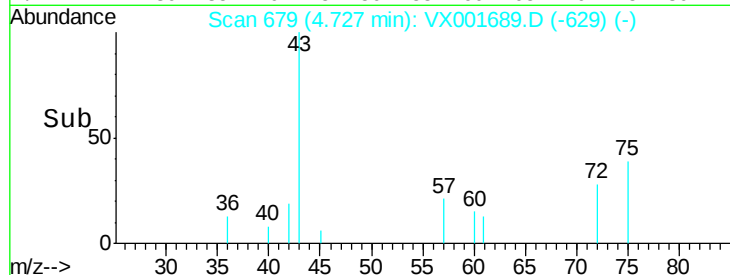
400

200

0

4.60 4.65 4.70 4.75 4.80

Time-->



#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

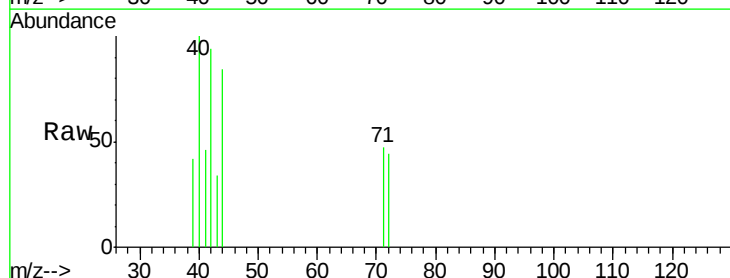
Tgt Ion: 42 Resp: 775

Ion Ratio Lower Upper

42 100

72 12.0 35.4 53.2#

71 0.0 33.0 49.4#



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

5.18

300

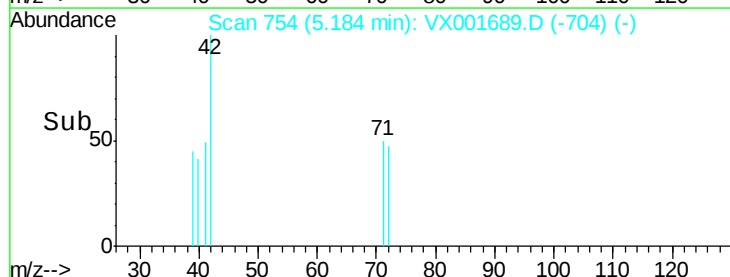
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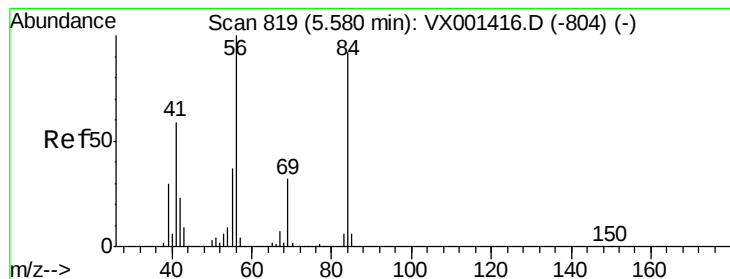
100

0

5.10 5.15 5.20 5.25

Time-->





#31

Cyclohexane

Concen: 0.90 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#05

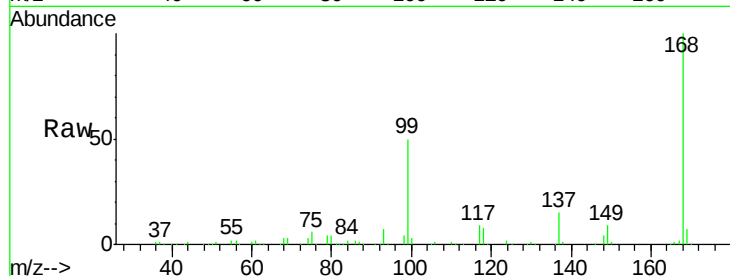
Tgt Ion: 56 Resp: 4565

Ion Ratio Lower Upper

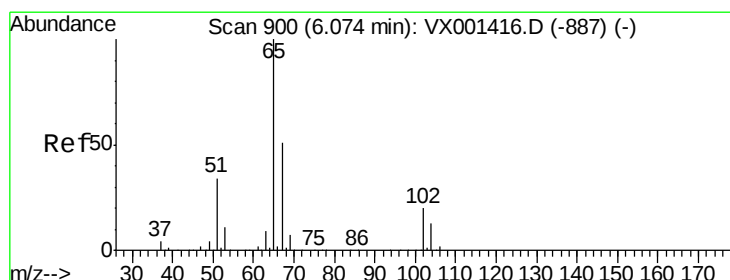
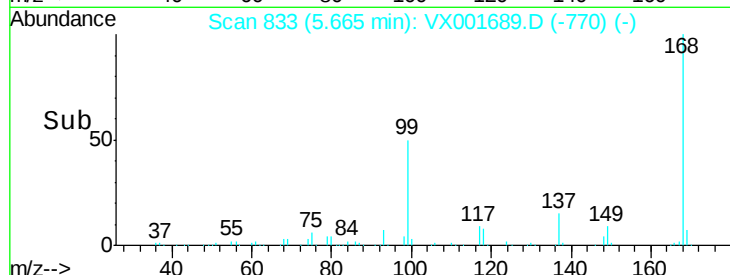
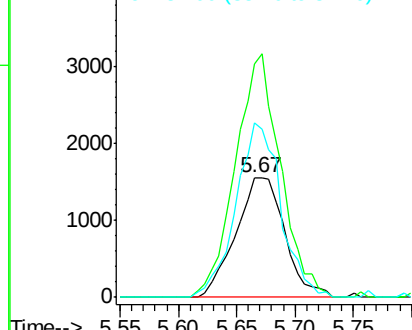
56 100

69 194.1 25.4 38.0#

84 146.0 73.8 110.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.92 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001689.D

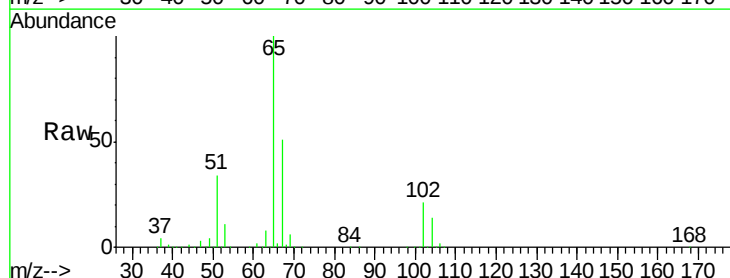
Acq: 13 May 2018 01:34

Tgt Ion: 65 Resp: 180214

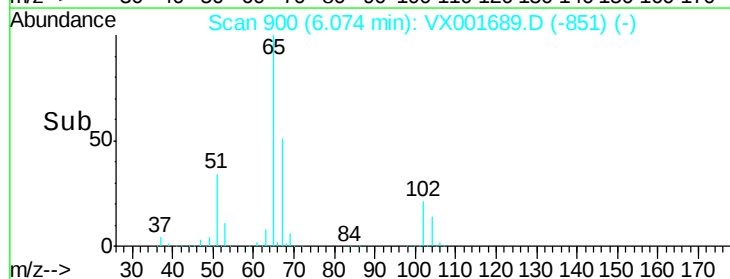
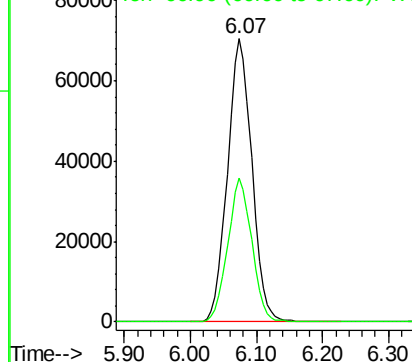
Ion Ratio Lower Upper

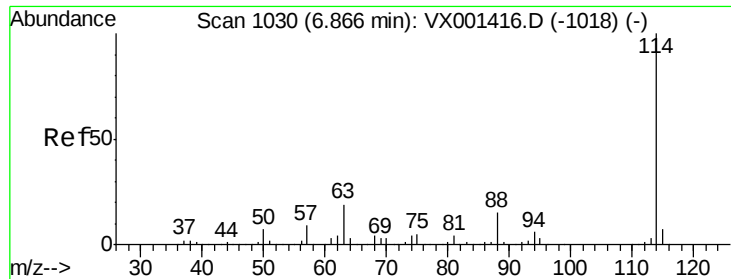
65 100

67 50.1 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

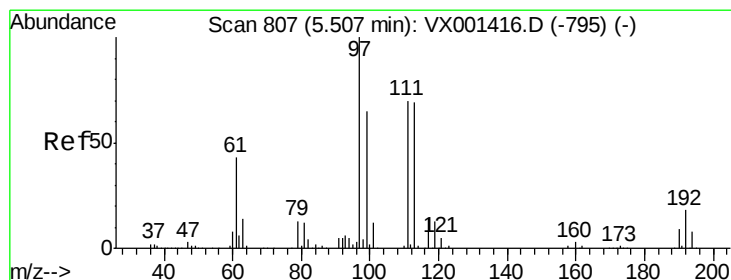
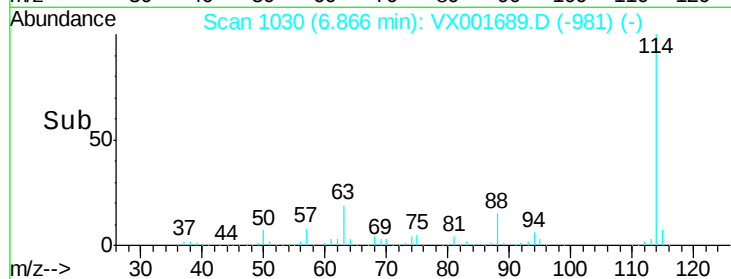
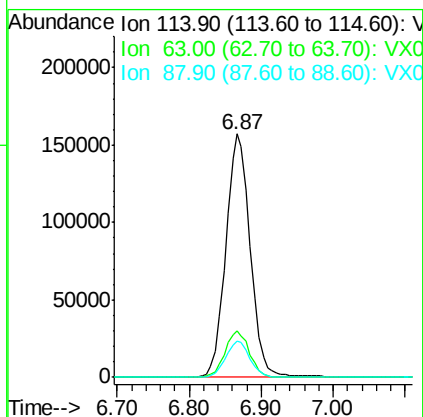
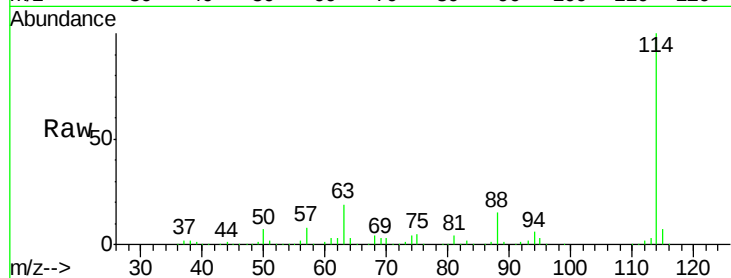




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001689.D
 Acq: 13 May 2018 01:34

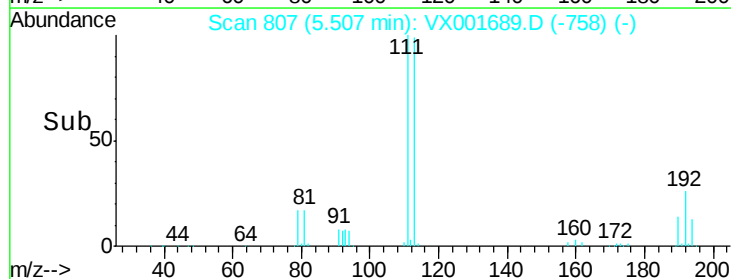
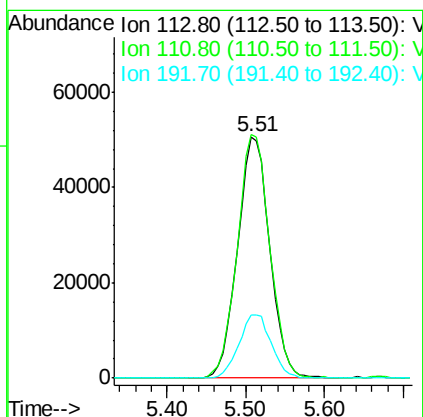
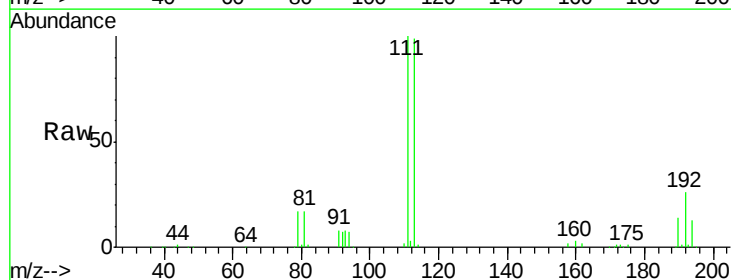
Instrument :
 MSVOA_X
 ClientSampleId :
 PB109200ZHE#05

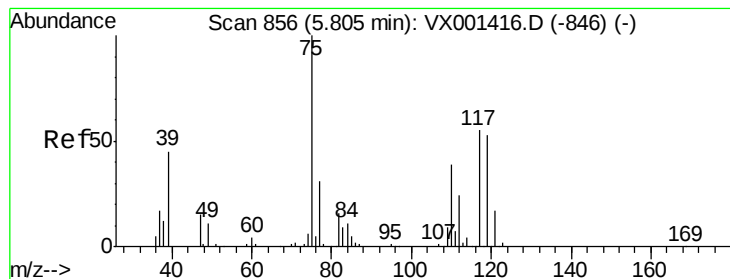
Tgt Ion:114 Resp: 369445
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.0 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 43.71 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX001689.D
 Acq: 13 May 2018 01:34

Tgt Ion:113 Resp: 143630
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.2 123.2
 192 26.3 21.4 32.0





#36

1,1-Dichloropropene

Concen: 3.57 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#05

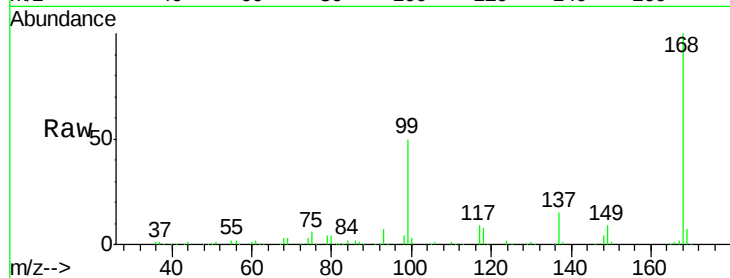
Tgt Ion: 75 Resp: 16773

Ion Ratio Lower Upper

75 100

110 10.1 18.9 56.7#

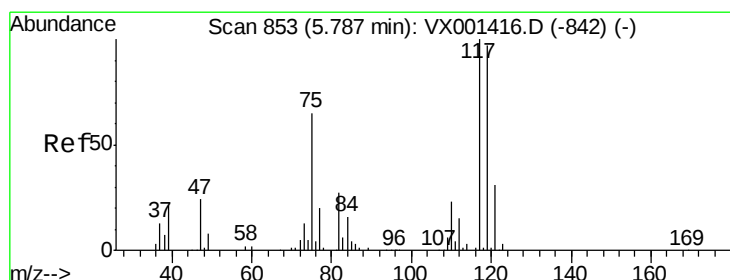
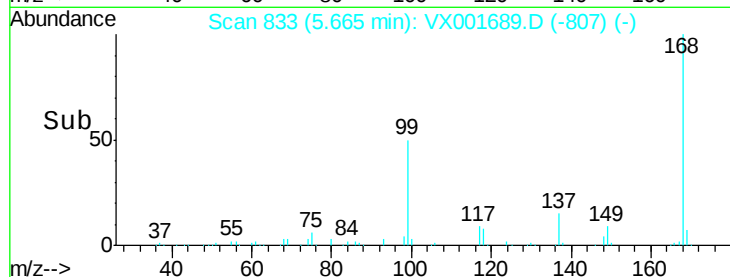
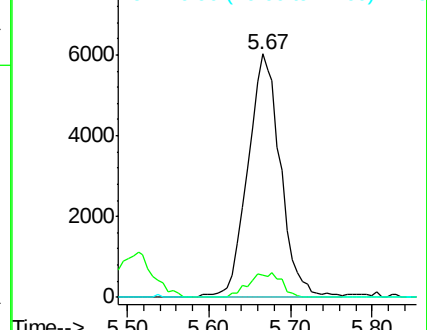
77 0.0 24.9 37.3#



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: 4.67 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

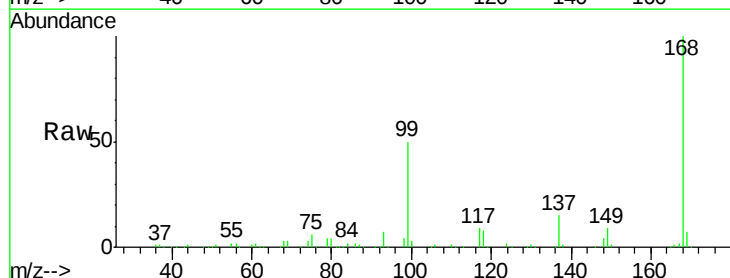
Tgt Ion: 117 Resp: 23403

Ion Ratio Lower Upper

117 100

119 5.6 77.0 115.6#

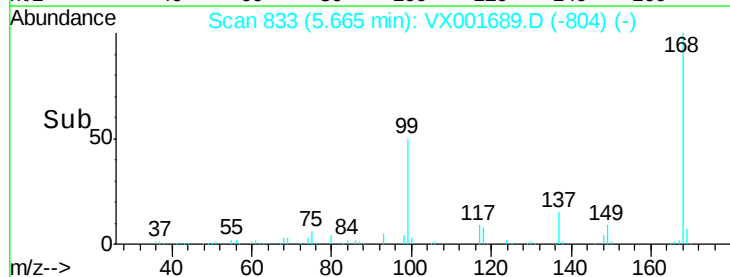
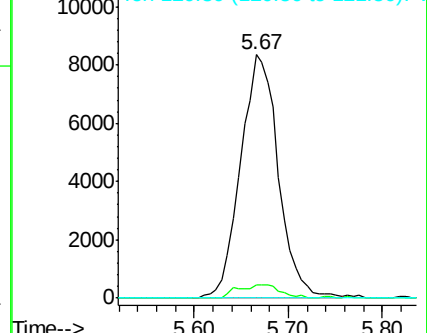
121 0.0 25.1 37.7#

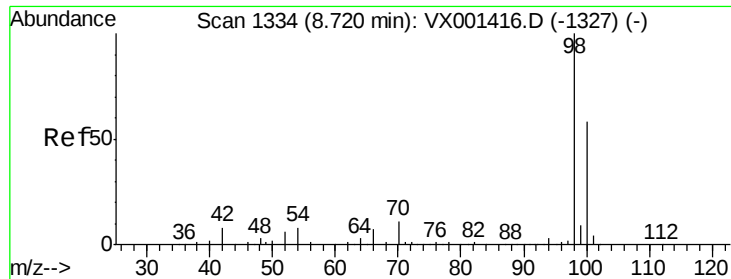


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 42.66 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

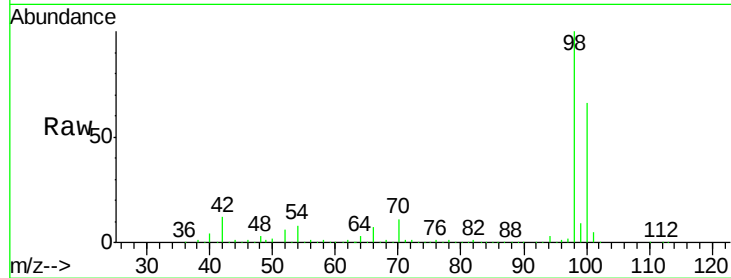
PB109200ZHE#05

Tgt Ion: 98 Resp: 511669

Ion Ratio Lower Upper

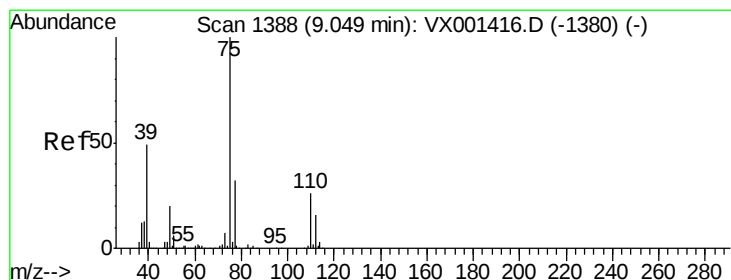
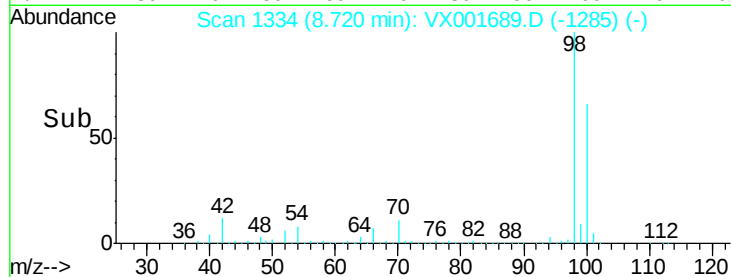
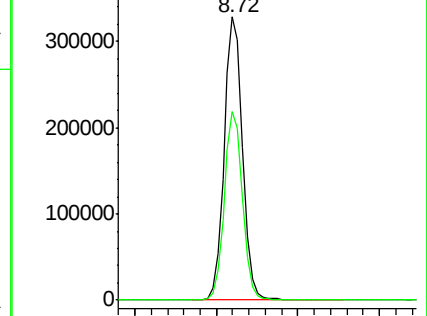
98 100

100 66.3 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 2.27 ug/l

RT: 9.06 min Scan# 1389

Delta R.T. 0.01 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

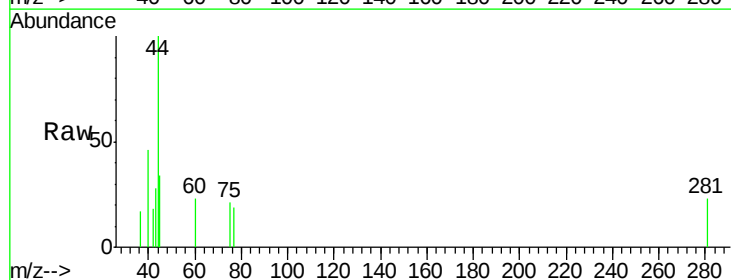
Tgt Ion: 75 Resp: 27

Ion Ratio Lower Upper

75 100

77 89.2 25.5 38.3#

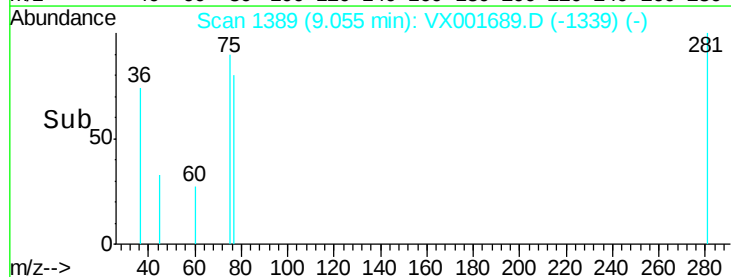
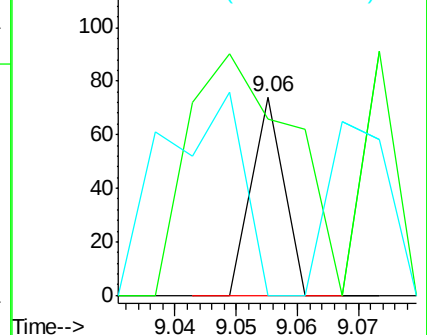
39 0.0 38.9 58.3#

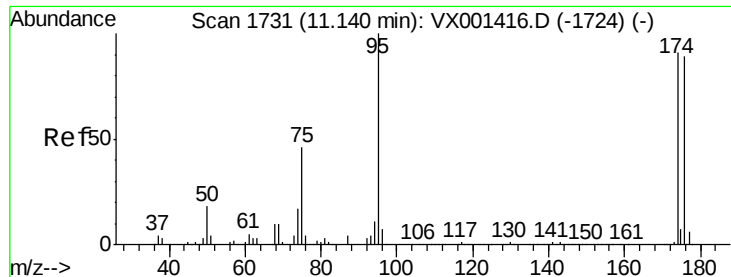


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#62

4-Bromofluorobenzene

Concen: 35.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#05

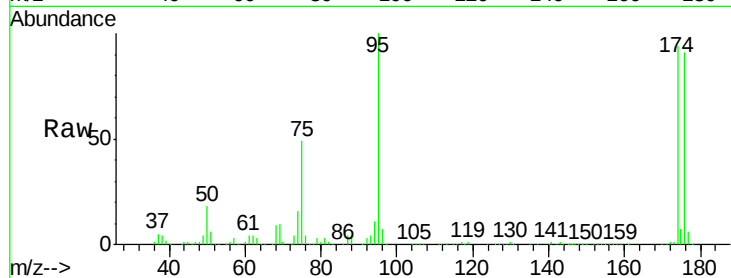
Tgt Ion: 95 Resp: 162233

Ion Ratio Lower Upper

95 100

174 101.9 0.0 202.0

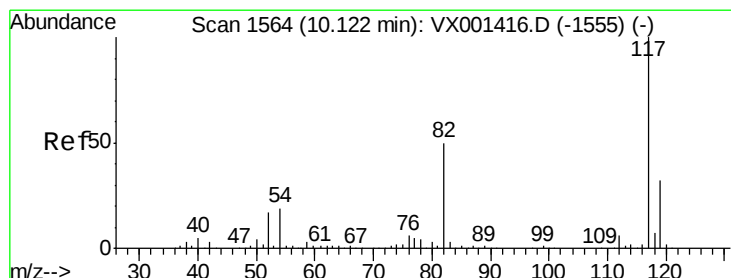
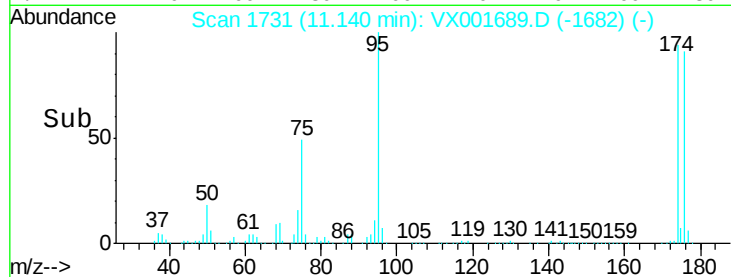
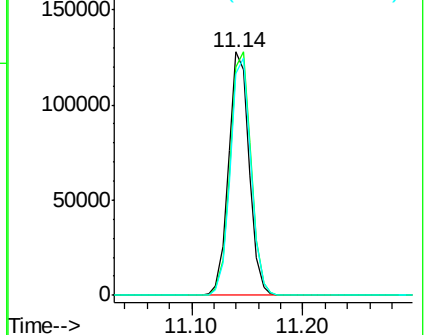
176 98.3 0.0 197.4



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

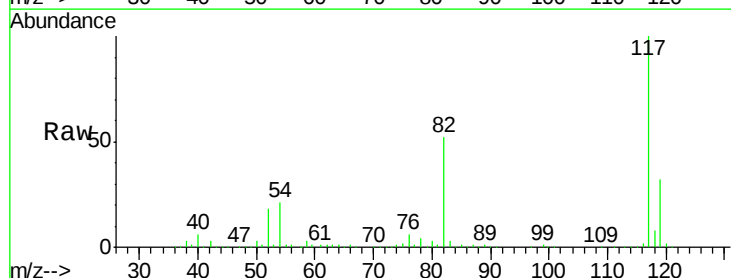
Tgt Ion: 117 Resp: 322929

Ion Ratio Lower Upper

117 100

82 52.5 40.0 60.0

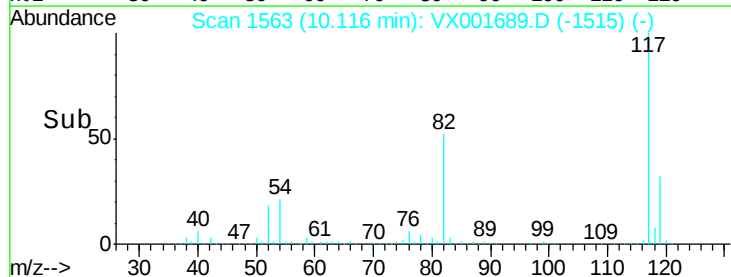
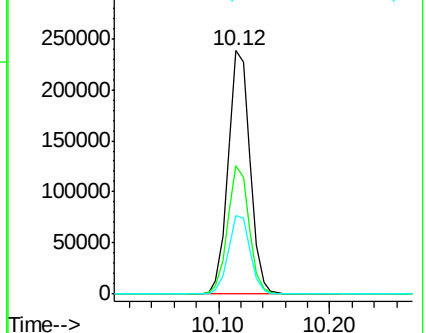
119 32.4 25.8 38.8

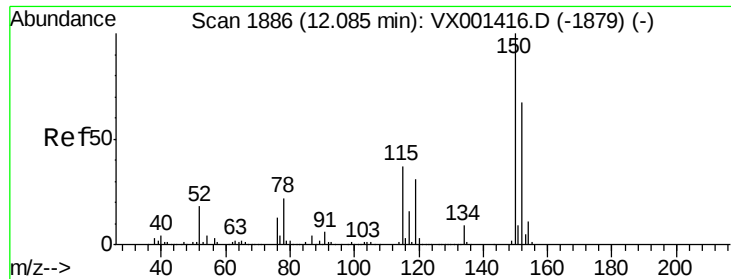


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#05

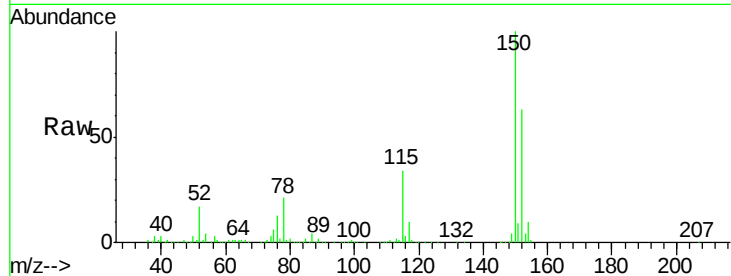
Tgt Ion:152 Resp: 171808

Ion Ratio Lower Upper

152 100

115 53.2 37.7 113.1

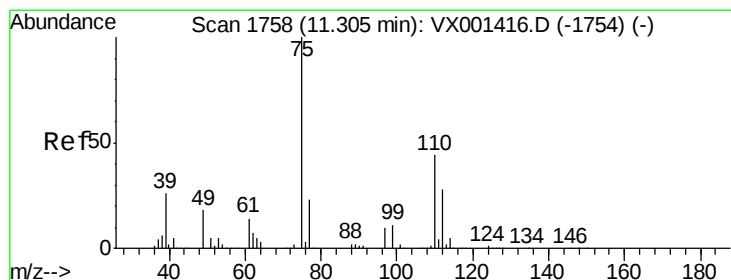
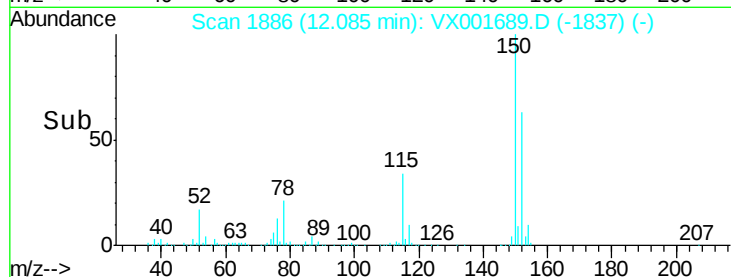
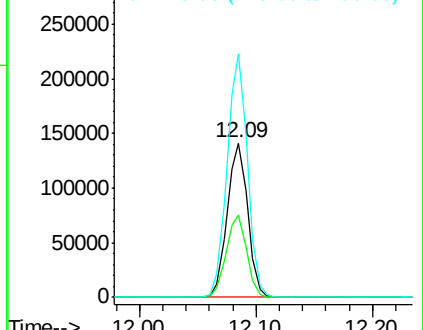
150 156.6 0.0 349.4



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: 22.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001689.D

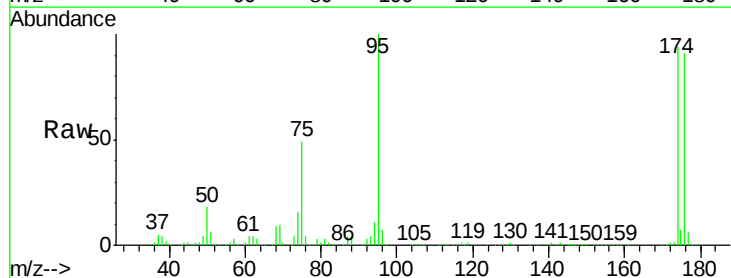
Acq: 13 May 2018 01:34

Tgt Ion: 75 Resp: 78777

Ion Ratio Lower Upper

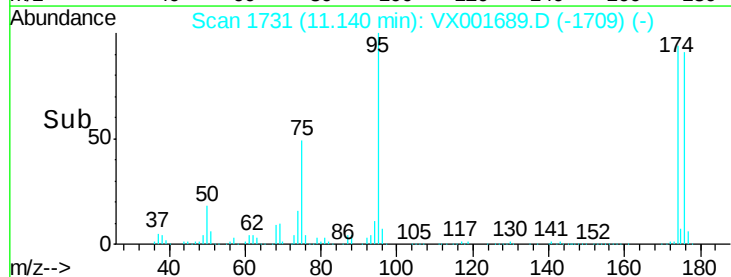
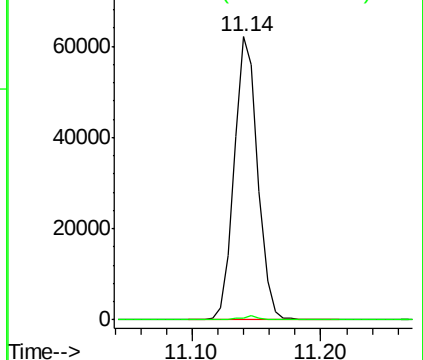
75 100

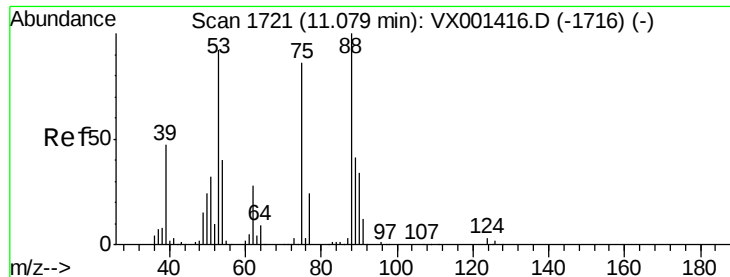
77 1.2 19.6 58.7#



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: 70.19 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001689.D

Acq: 13 May 2018 01:34

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#05

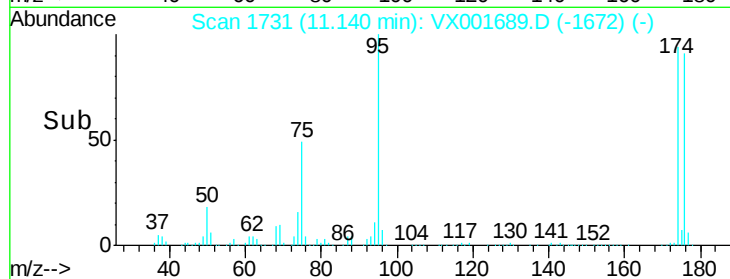
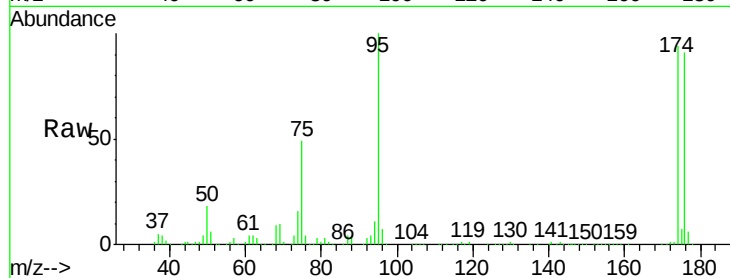
Tgt Ion: 75 Resp: 78777

Ion Ratio Lower Upper

75 100

53 0.0 84.5 126.7#

89 0.1 39.5 59.3#



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

