

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002817.D
 Acq On : 22 Jun 2018 04:53
 Operator : JC/MD
 Sample : PB110441ZHE#20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#20

Quant Time: Jun 22 05:23:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	234272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328885	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	174431	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	161673	45.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.82%	
35) Dibromofluoromethane	5.51	113	126793	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
50) Toluene-d8	8.72	98	472930	47.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.90%	
62) 4-Bromofluorobenzene	11.14	95	166550	44.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.20%	

Target Compounds

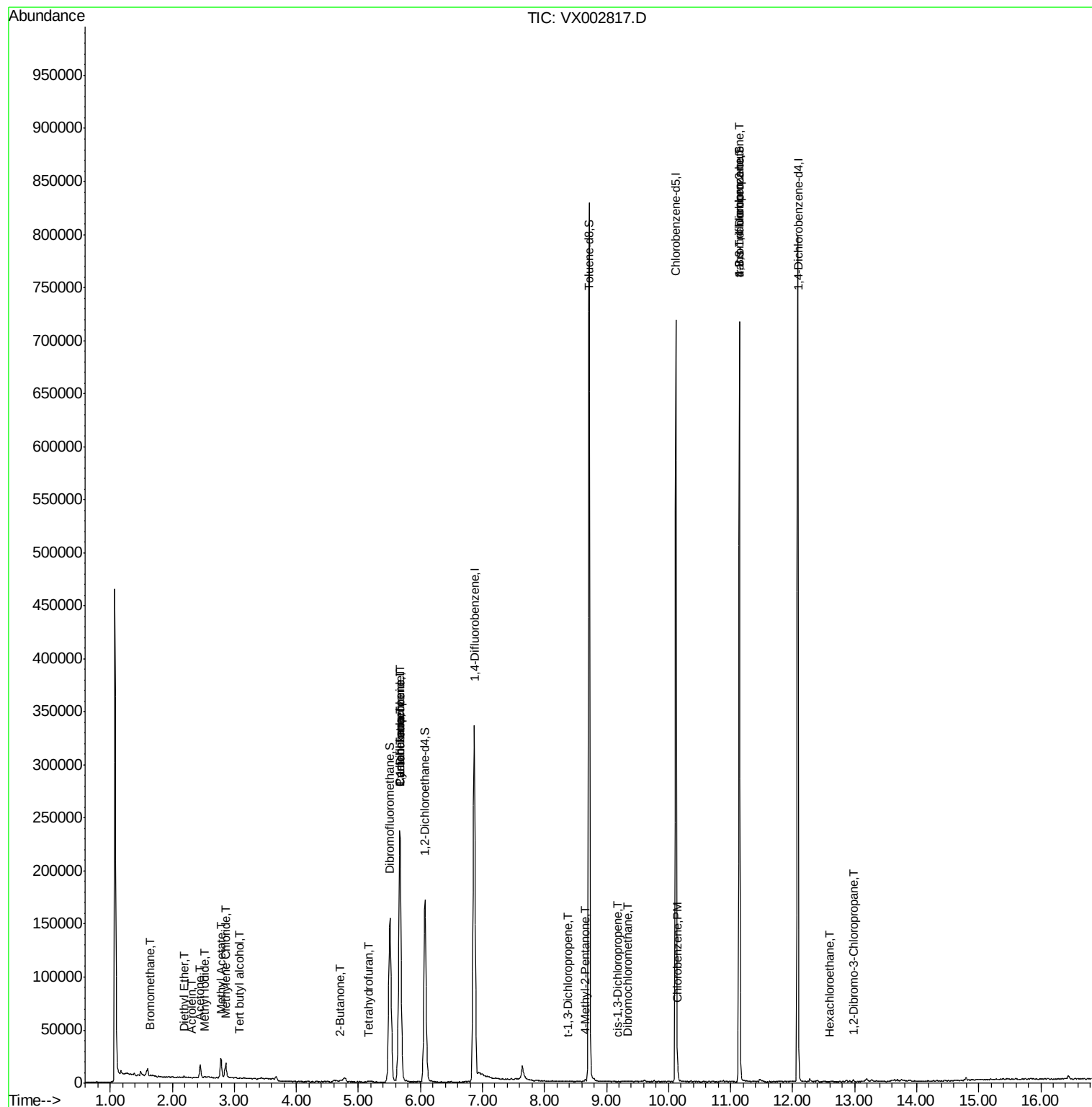
						Qvalue
5) Bromomethane	1.65	94	1048	0.57	ug/l	83
8) Diethyl Ether	2.19	74	570	0.30	ug/l #	43
10) Methyl Iodide	2.52	142	965	5.41	ug/l	93
11) Tert butyl alcohol	3.08	59	497	0.68	ug/l #	56
13) Acrolein	2.30	56	149	7.28	ug/l #	27
16) Acetone	2.45	43	13399	8.53	ug/l	97
18) Methyl Acetate	2.78	43	23098	5.52	ug/l	99
20) Methylene Chloride	2.86	84	6586	2.05	ug/l	89
25) 2-Butanone	4.70	43	1332	0.65	ug/l #	88
29) Tetrahydrofuran	5.17	42	405	0.30	ug/l #	63
31) Cyclohexane	5.66	56	4481	1.07	ug/l #	21
36) 1,1-Dichloropropene	5.67	75	15966	4.57	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21811	6.27	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	1134	0.27	ug/l	98
53) t-1,3-Dichloropropene	8.38	75	20	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.19	75	21	3.22	ug/l #	48
60) Dibromochloromethane	9.33	129	74	3.78	ug/l #	11
65) Chlorobenzene	10.15	112	3107	0.41	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	88763	26.97	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88763	83.25	ug/l #	7
90) Hexachloroethane	12.60	117	21	2.64	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.99	75	312	0.43	ug/l #	1

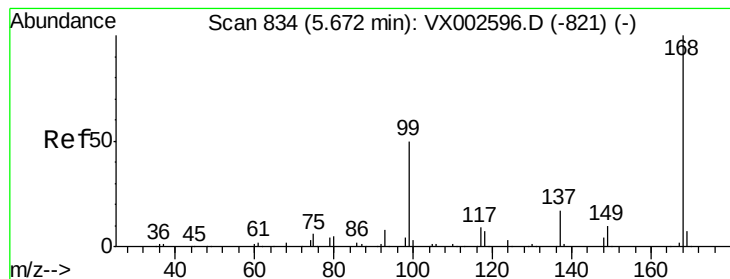
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 22 05:23:07 2018
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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

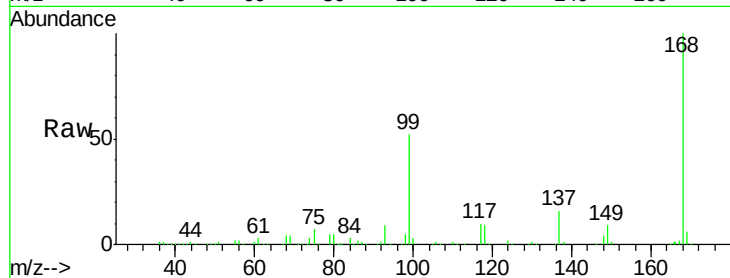
PB110441ZHE#20

Tot Ion:168 Resp: 234272

Ion Ratio Lower Upper

168 100

99 52.4 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

80000

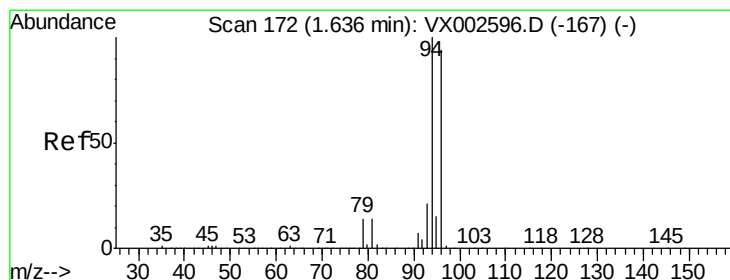
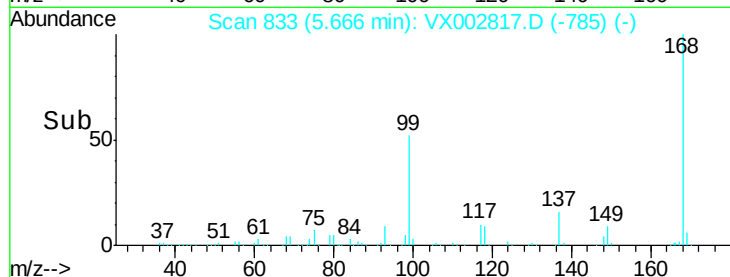
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.57 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002817.D

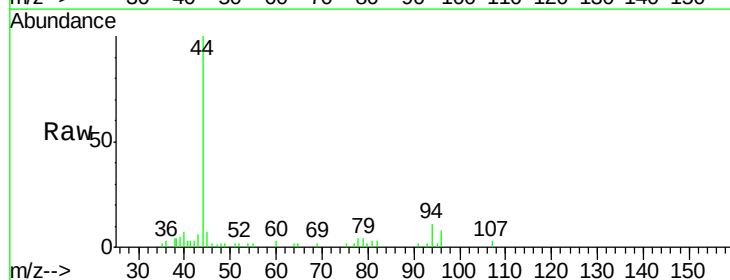
Acq: 22 Jun 2018 04:53

Tgt Ion: 94 Resp: 1048

Ion Ratio Lower Upper

94 100

96 77.6 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

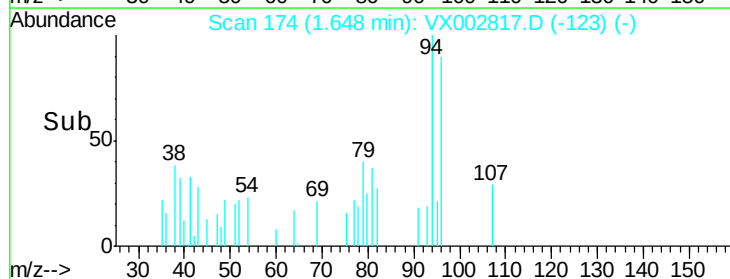
300

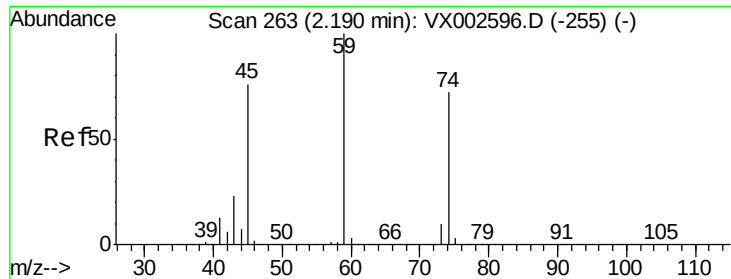
200

100

0

Time--> 1.60 1.65 1.70

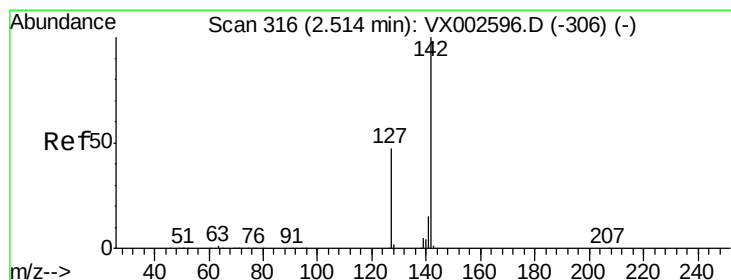
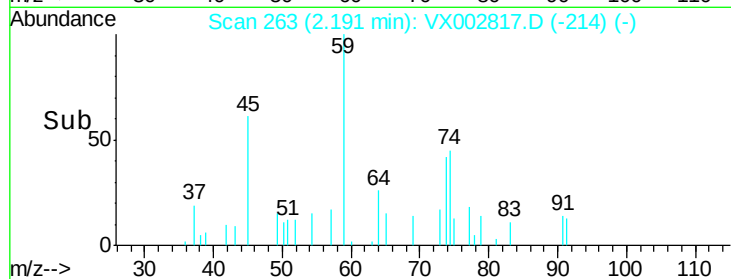
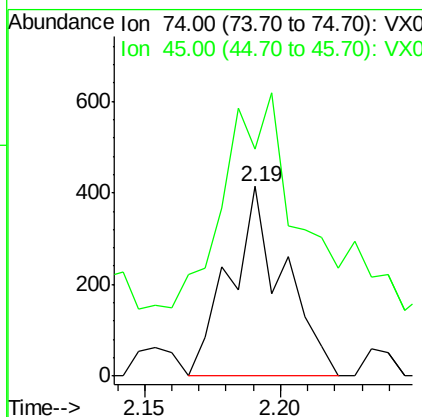
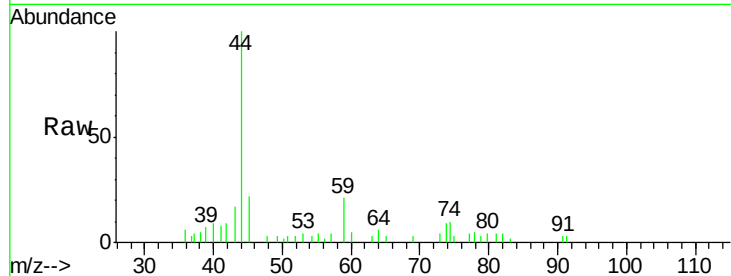




#8
 Diethyl Ether
 Concen: 0.30 ug/l
 RT: 2.19 min Scan# 263
 Delta R.T. 0.00 min
 Lab File: VX002817.D
 Acq: 22 Jun 2018 04:53

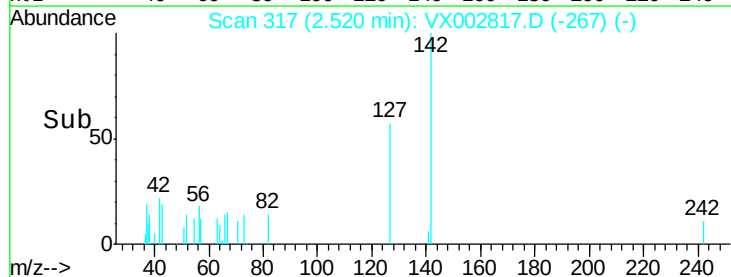
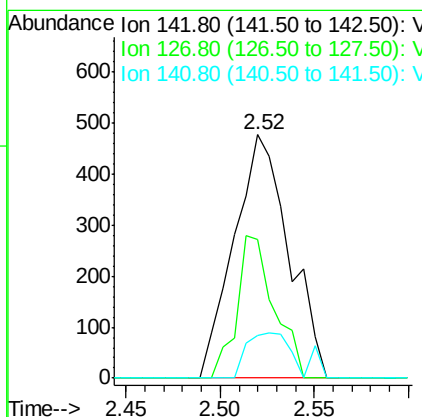
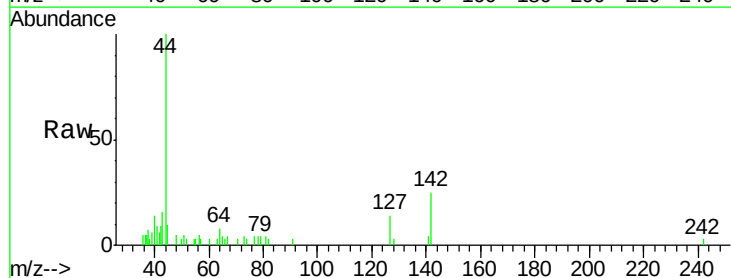
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#20

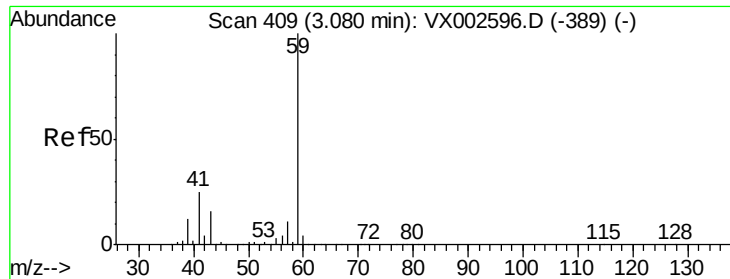
Tot Ion: 74 Resp: 570
 Ion Ratio Lower Upper
 74 100
 45 164.9 53.1 159.4#



#10
 Methyl Iodide
 Concen: 5.41 ug/l
 RT: 2.52 min Scan# 317
 Delta R.T. 0.01 min
 Lab File: VX002817.D
 Acq: 22 Jun 2018 04:53

Tgt Ion:142 Resp: 965
 Ion Ratio Lower Upper
 142 100
 127 39.6 36.6 55.0
 141 14.4 11.3 16.9





#11

Tert butyl alcohol

Concen: 0.68 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

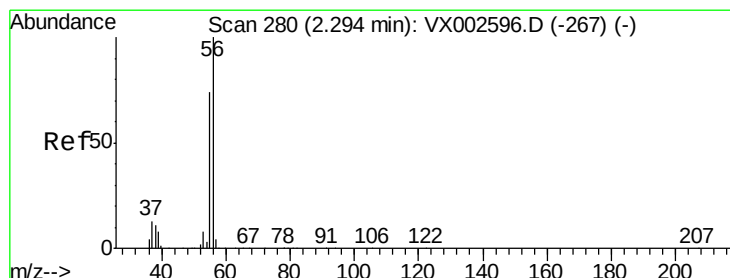
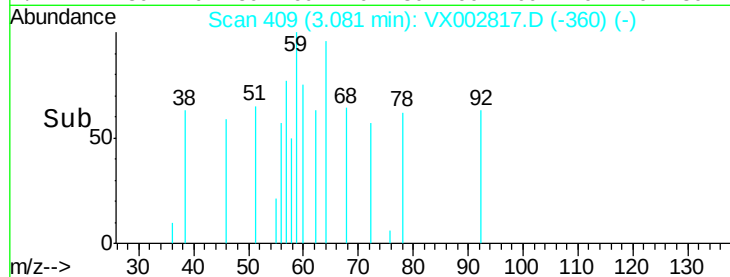
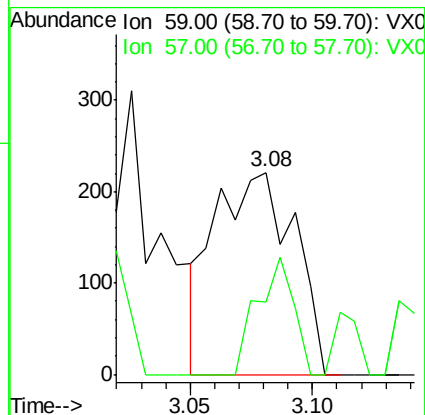
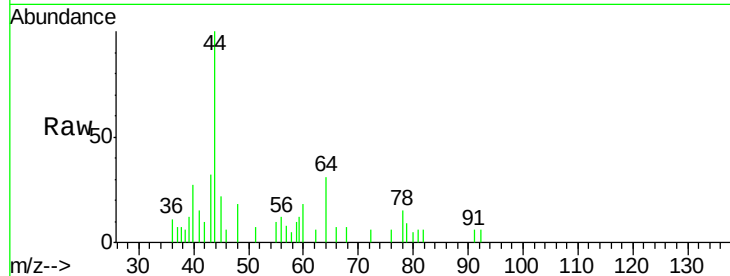
PB110441ZHE#20

Tot Ion: 59 Resp: 497

Ion Ratio Lower Upper

59 100

57 26.6 8.2 12.2#



#13

Acrolein

Concen: 7.28 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002817.D

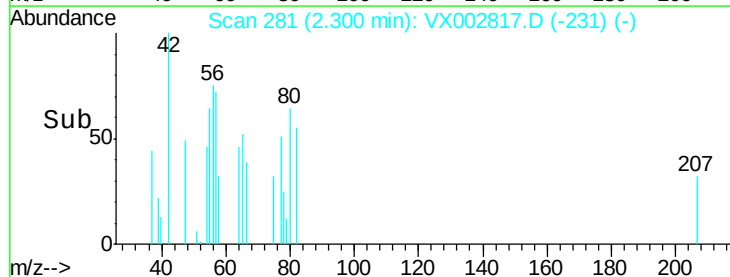
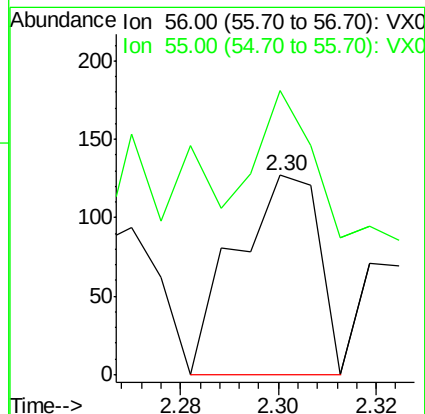
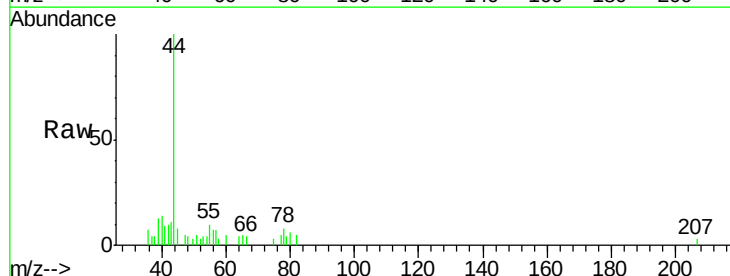
Acq: 22 Jun 2018 04:53

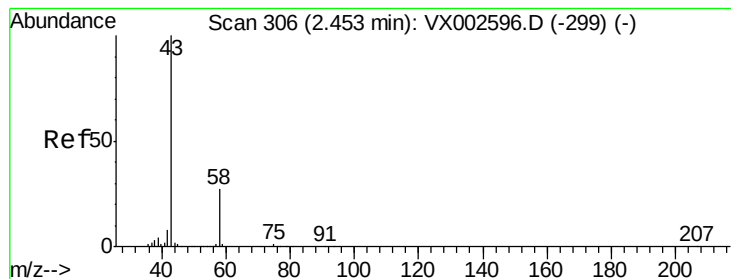
Tgt Ion: 56 Resp: 149

Ion Ratio Lower Upper

56 100

55 131.5 57.0 85.4#





#16

Acetone

Concen: 8.53 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

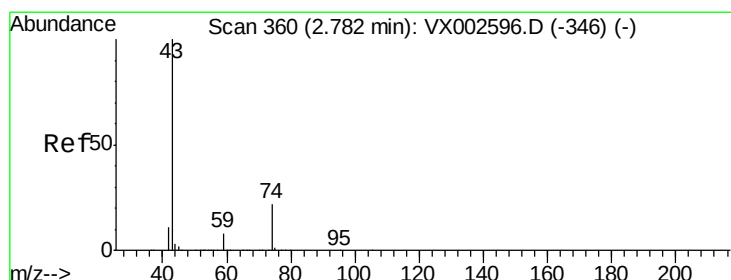
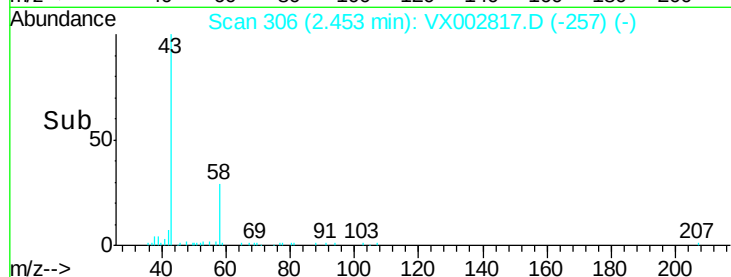
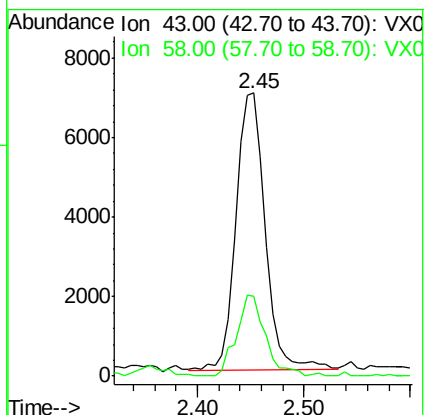
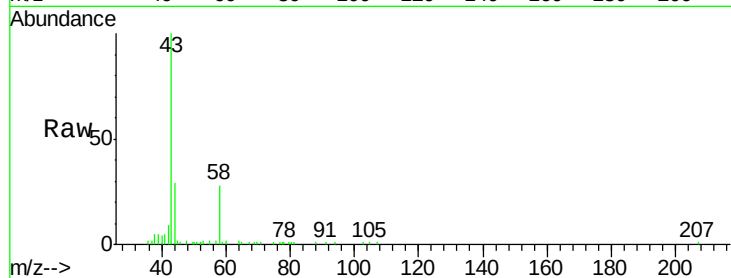
PB110441ZHE#20

Tot Ion: 43 Resp: 13399

Ion Ratio Lower Upper

43 100

58 29.1 22.1 33.1



#18

Methyl Acetate

Concen: 5.52 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002817.D

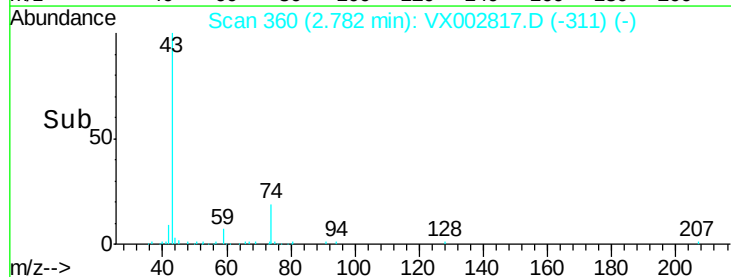
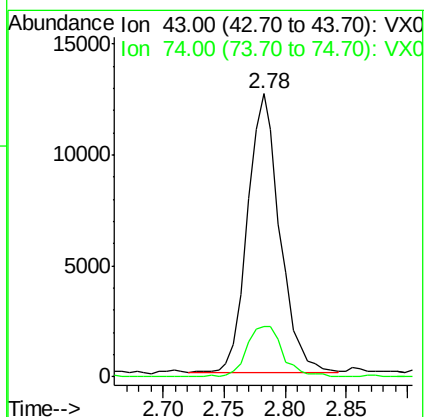
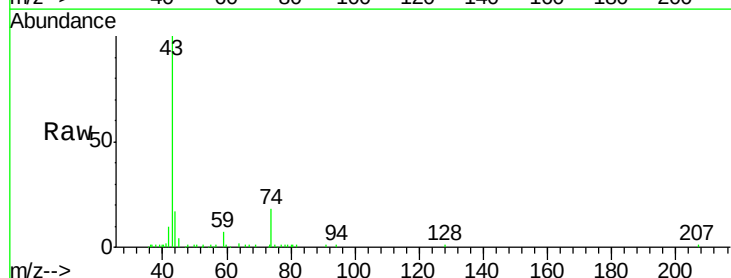
Acq: 22 Jun 2018 04:53

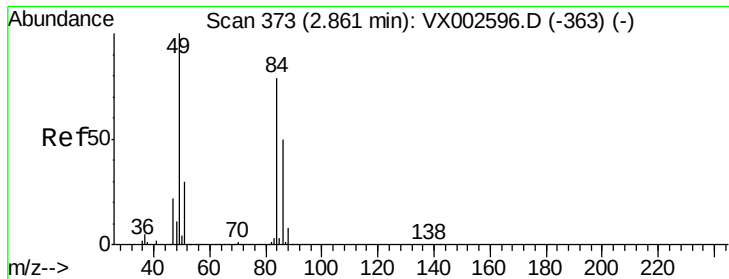
Tgt Ion: 43 Resp: 23098

Ion Ratio Lower Upper

43 100

74 20.4 16.7 25.1

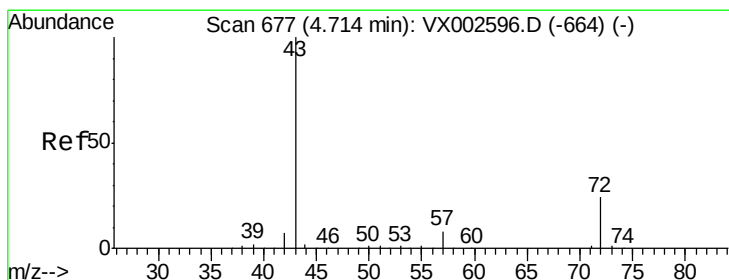
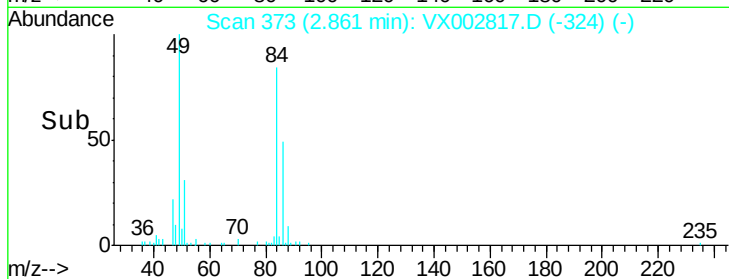
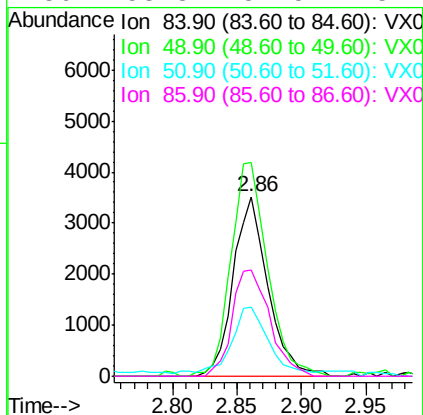
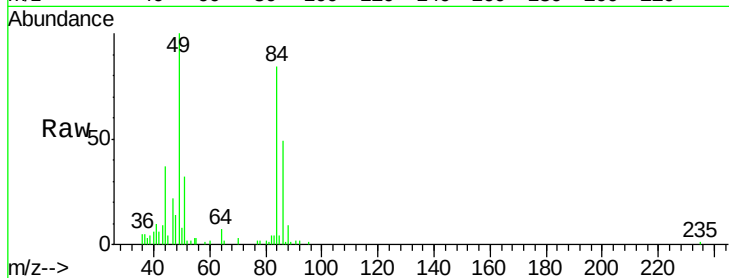




#20
Methylene Chloride
Concen: 2.05 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002817.D
Acq: 22 Jun 2018 04:53

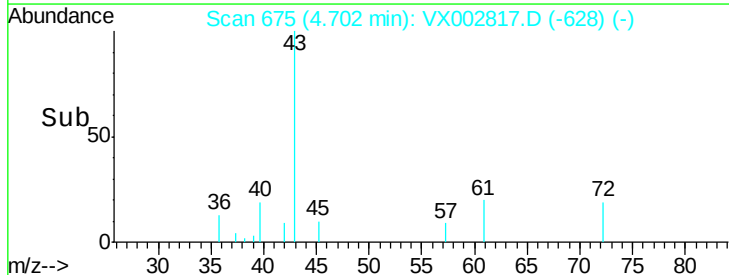
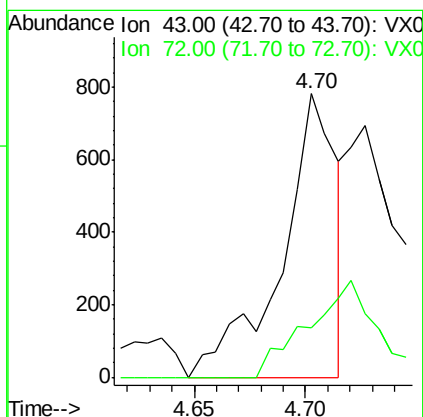
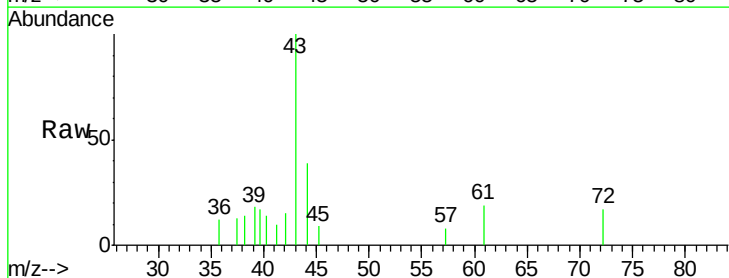
Instrument :
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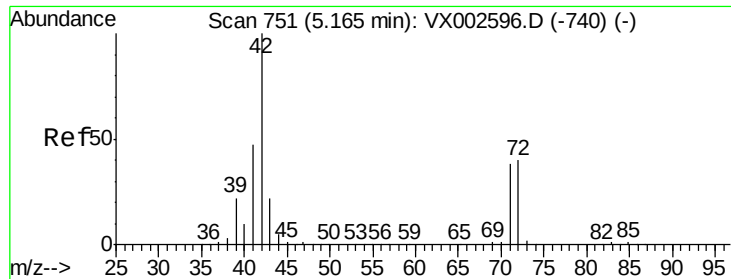
Tot Ion:	84	Resp:	6586
Ion	Ratio	Lower	Upper
84	100		
49	118.9	107.8	161.6
51	36.1	32.8	49.2
86	58.8	52.5	78.7



#25
2-Butanone
Concen: 0.65 ug/l
RT: 4.70 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX002817.D
Acq: 22 Jun 2018 04:53

Tgt Ion:	43	Resp:	1332
Ion	Ratio	Lower	Upper
43	100		
72	17.3	18.5	27.7#

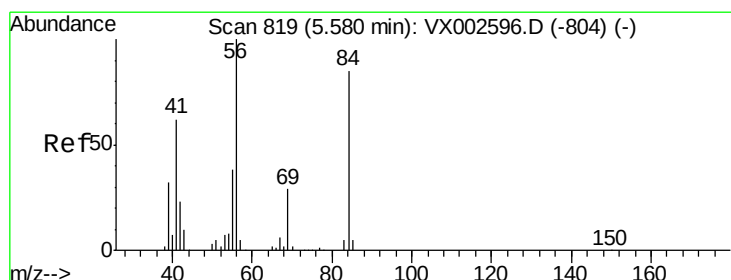
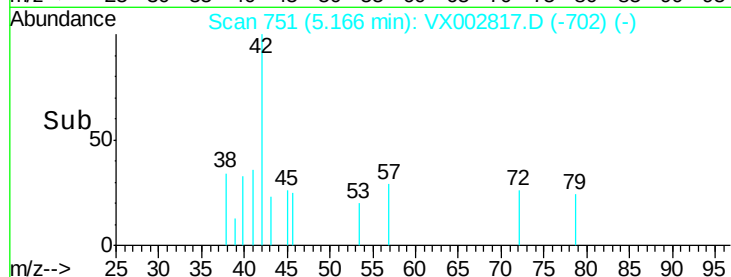
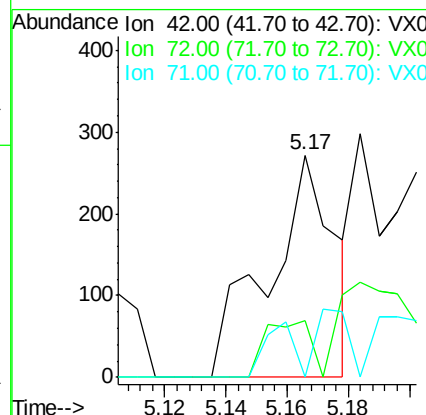
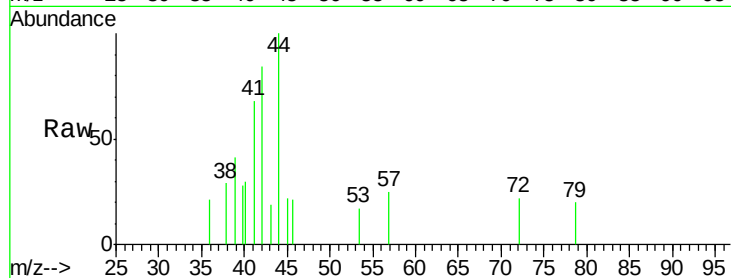




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX002817.D
Acq: 22 Jun 2018 04:53

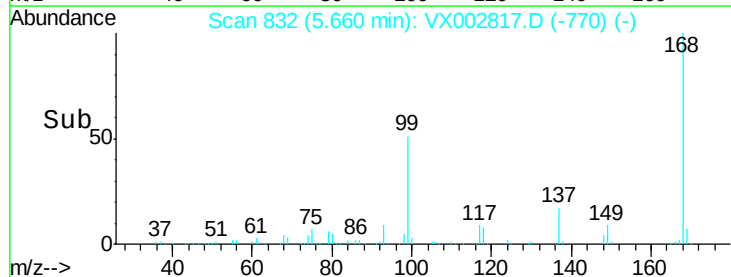
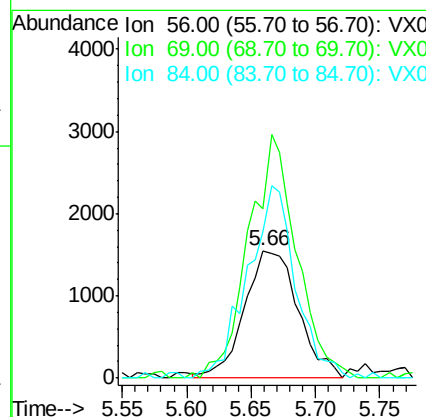
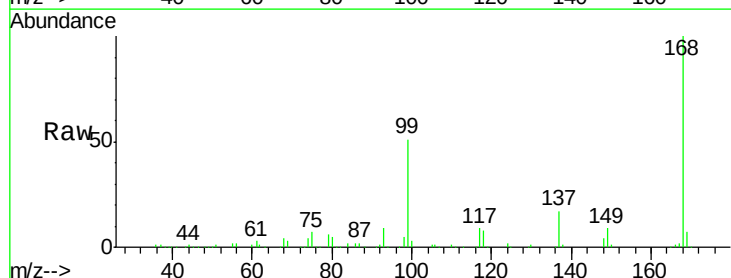
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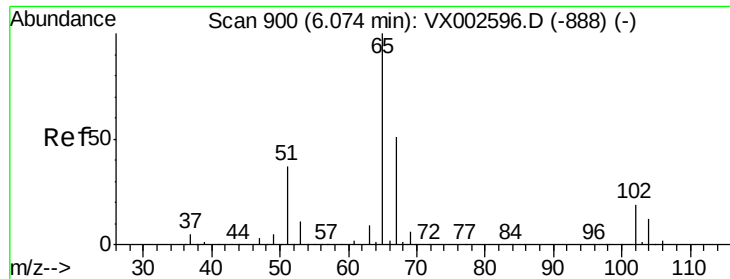
Tot Ion: 42 Resp: 405
Ion Ratio Lower Upper
42 100
72 17.5 32.0 48.0#
71 14.8 30.1 45.1#



#31
Cyclohexane
Concen: 1.07 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX002817.D
Acq: 22 Jun 2018 04:53

Tgt Ion: 56 Resp: 4481
Ion Ratio Lower Upper
56 100
69 128.8 23.7 35.5#
84 115.5 64.1 96.1#

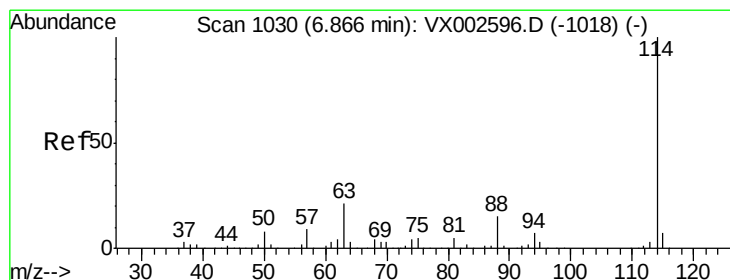
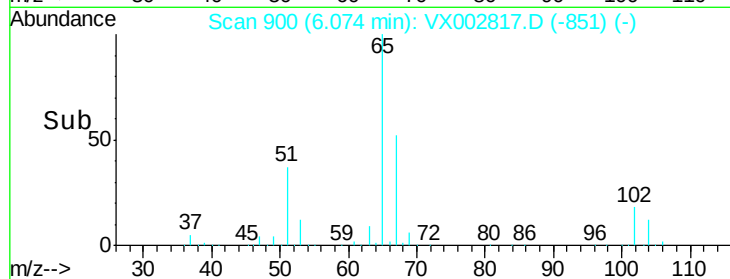
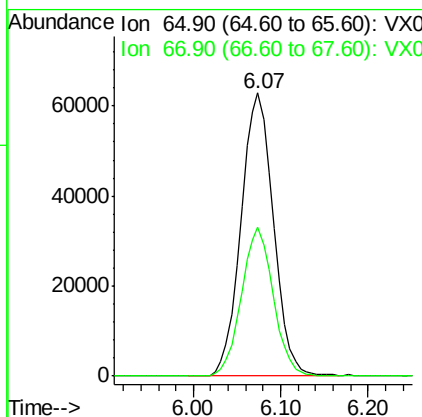
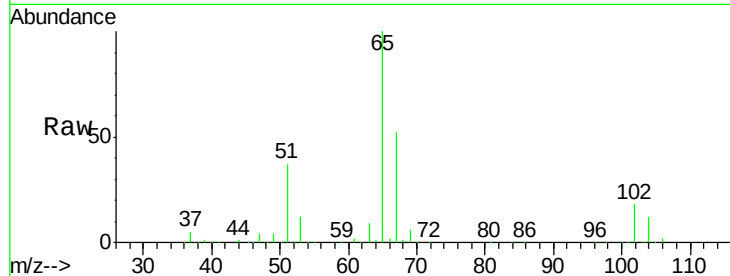




#33
 1,2-Dichloroethane-d4
 Concen: 45.41 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002817.D
 Acq: 22 Jun 2018 04:53

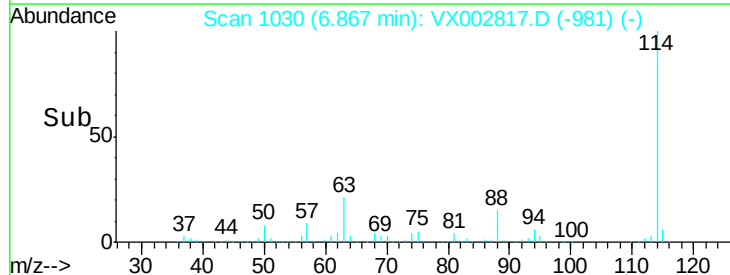
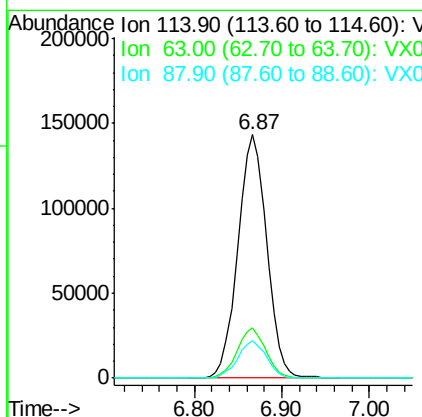
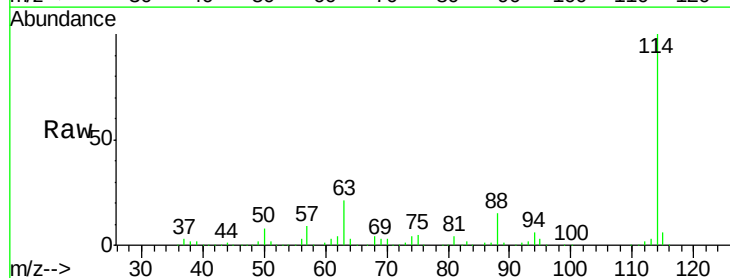
Instrument :
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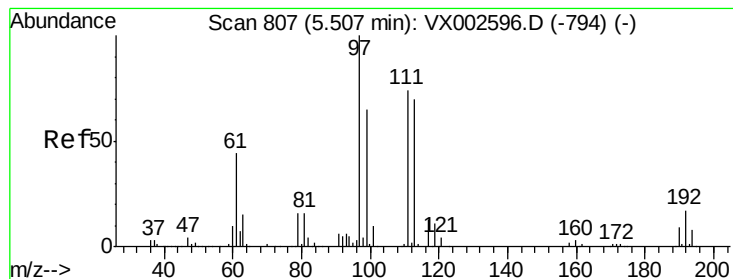
Tot Ion: 65 Resp: 161673
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002817.D
 Acq: 22 Jun 2018 04:53

Tgt Ion: 114 Resp: 328885
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.31 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#20

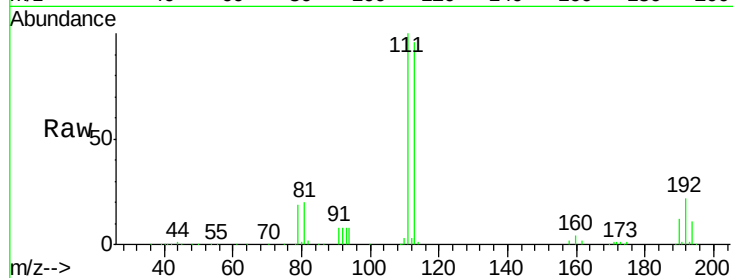
Tot Ion:113 Resp: 126793

Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

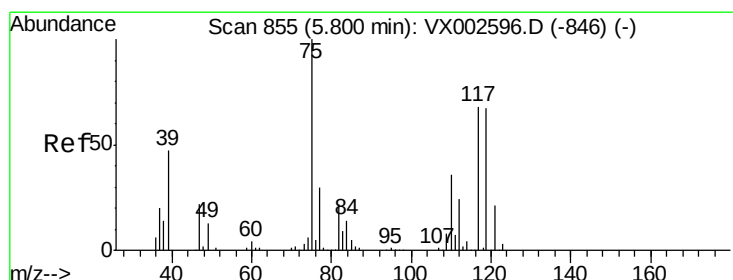
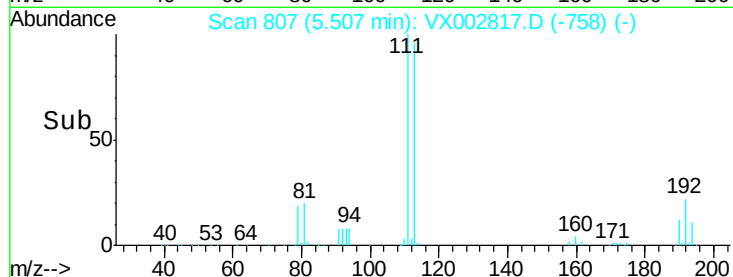
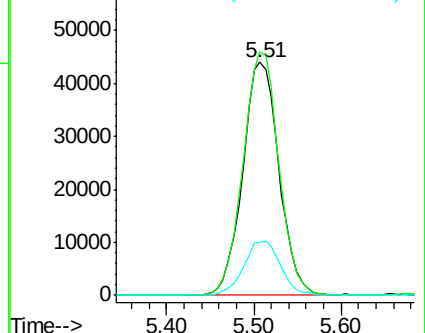
192 23.6 19.1 28.7



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: 4.57 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

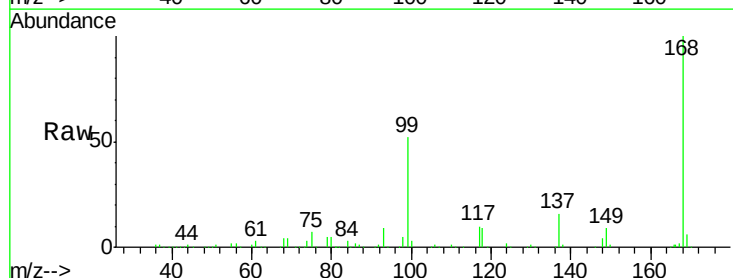
Tgt Ion: 75 Resp: 15966

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

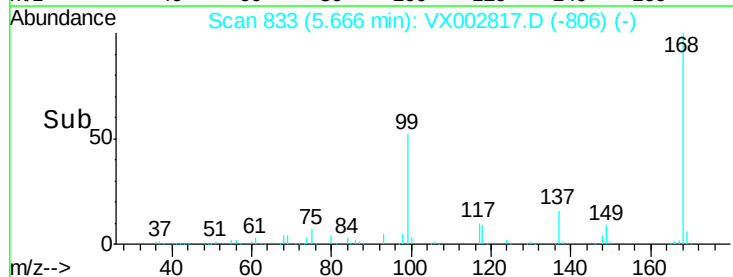
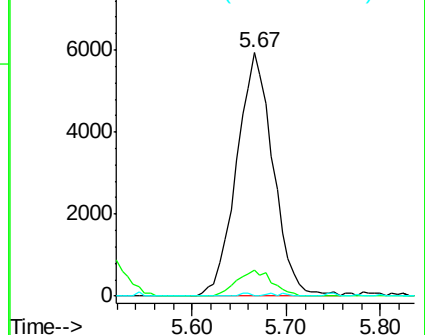
77 0.3 24.3 36.5#

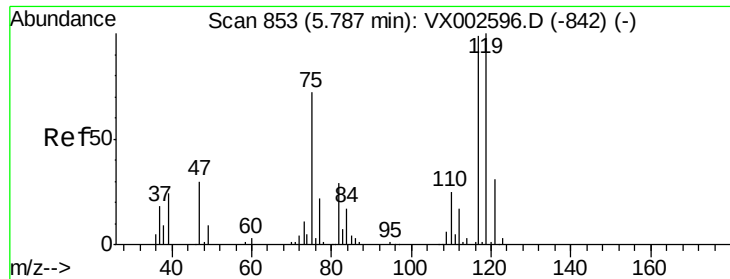


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.27 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#20

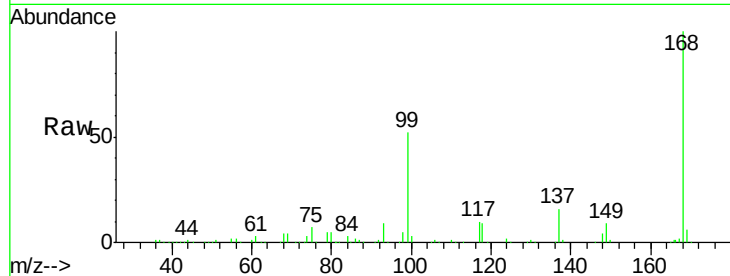
Tot Ion:117 Resp: 21811

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

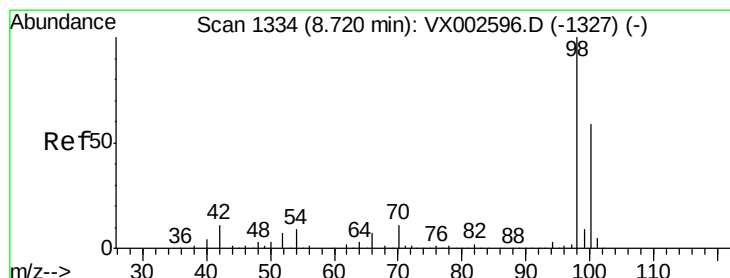
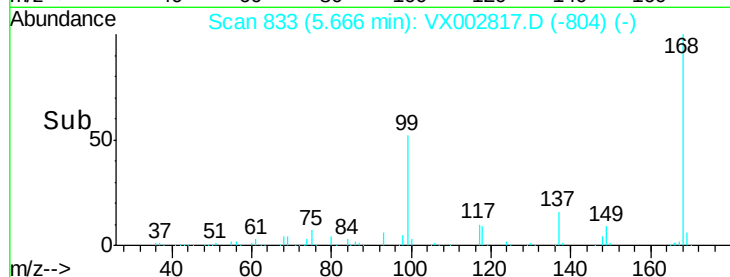
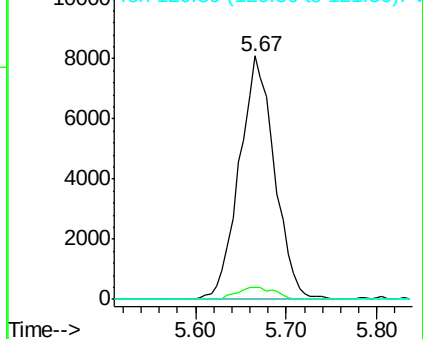
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 47.45 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002817.D

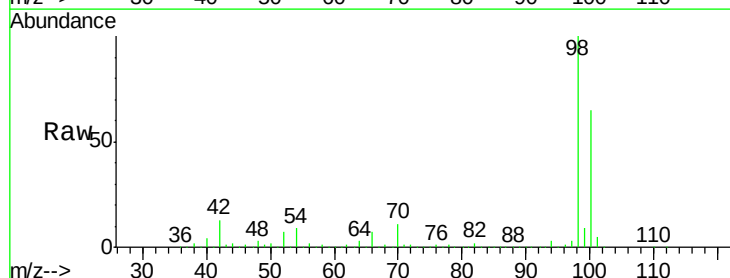
Acq: 22 Jun 2018 04:53

Tgt Ion: 98 Resp: 472930

Ion Ratio Lower Upper

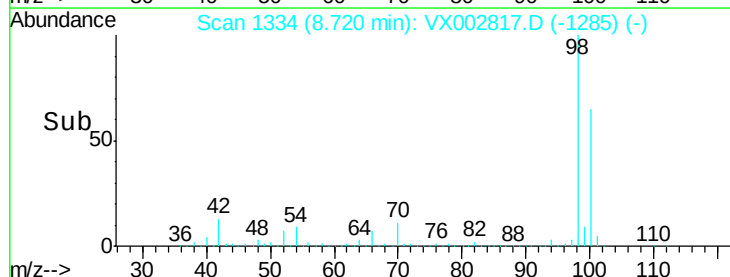
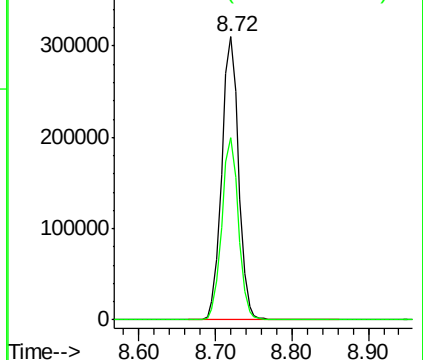
98 100

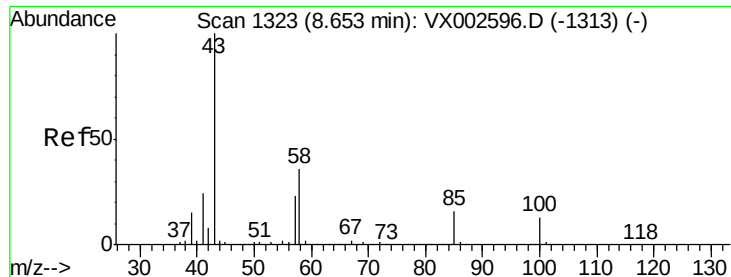
100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.27 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

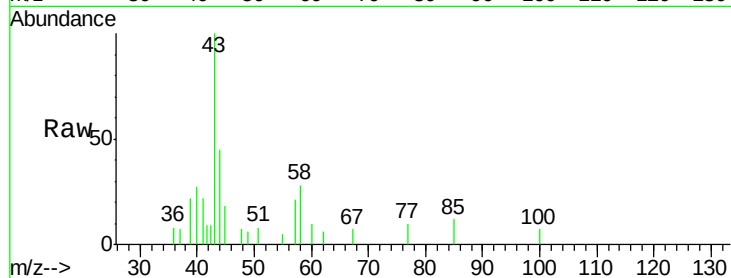
PB110441ZHE#20

Tot Ion: 43 Resp: 1134

Ion Ratio Lower Upper

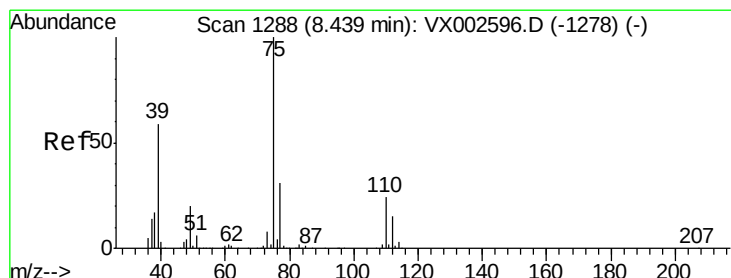
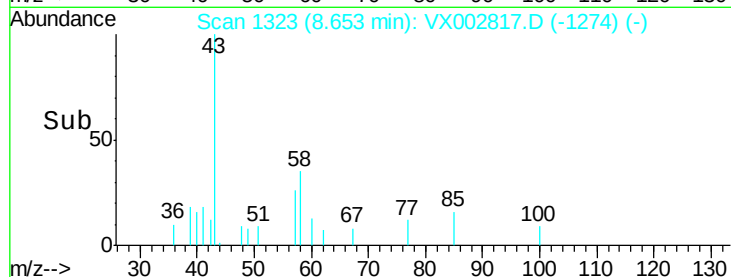
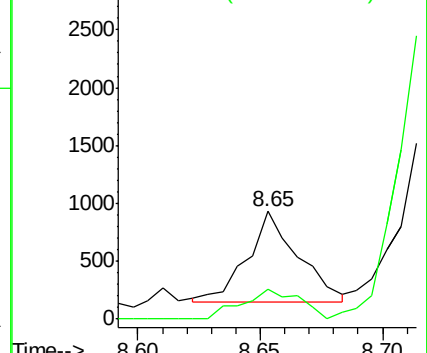
43 100

58 36.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.38 min Scan# 1278

Delta R.T. -0.06 min

Lab File: VX002817.D

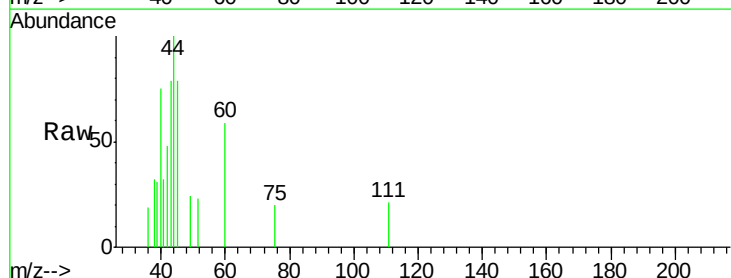
Acq: 22 Jun 2018 04:53

Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

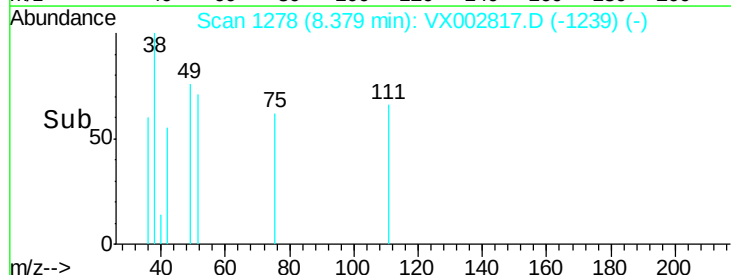
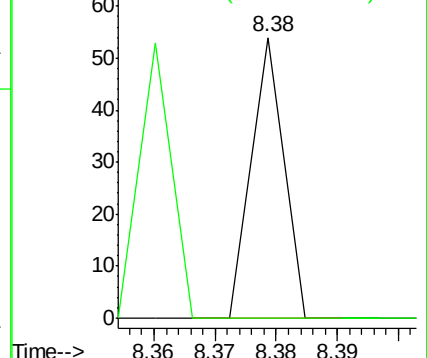
75 100

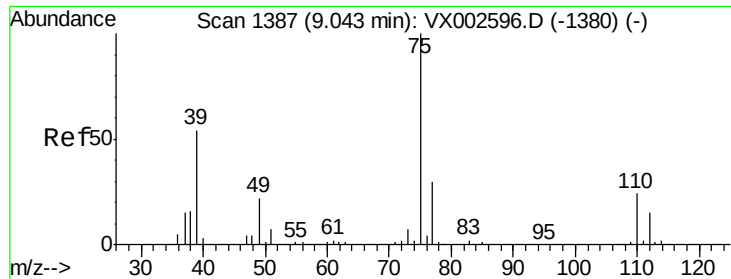
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.19 min Scan# 1411

Delta R.T. 0.15 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#20

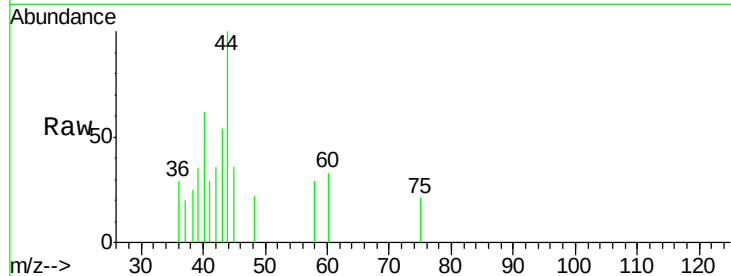
Tot Ion: 75 Resp: 21

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

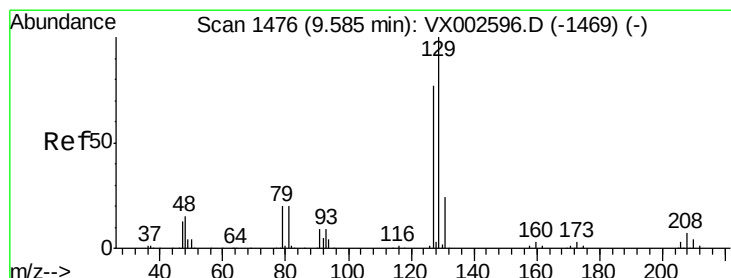
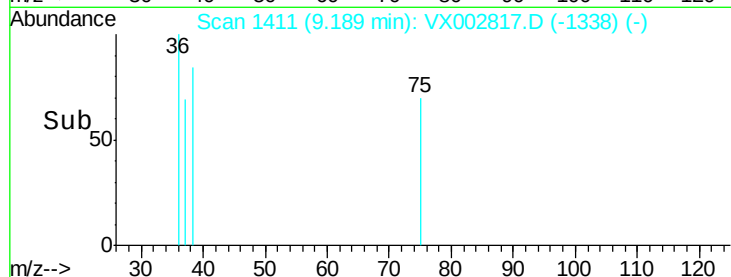
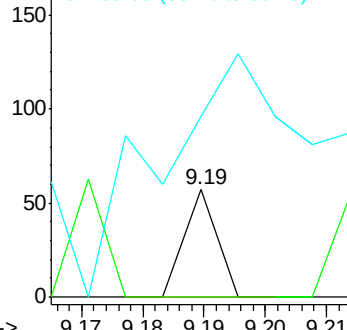
39 17.5 42.4 63.6#



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



#60

Dibromochloromethane

Concen: 3.78 ug/l

RT: 9.33 min Scan# 1434

Delta R.T. -0.26 min

Lab File: VX002817.D

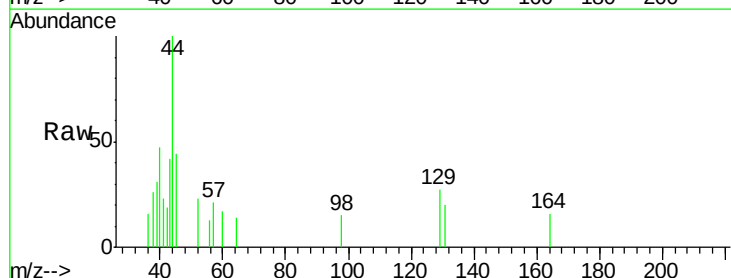
Acq: 22 Jun 2018 04:53

Tgt Ion: 129 Resp: 74

Ion Ratio Lower Upper

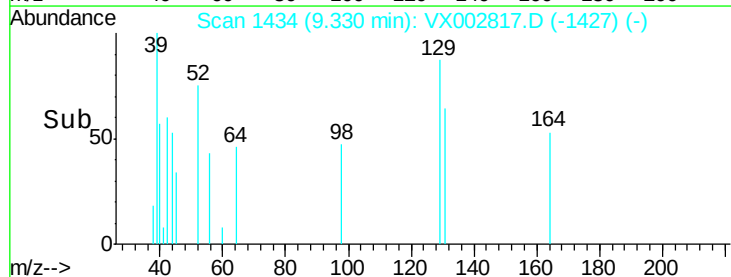
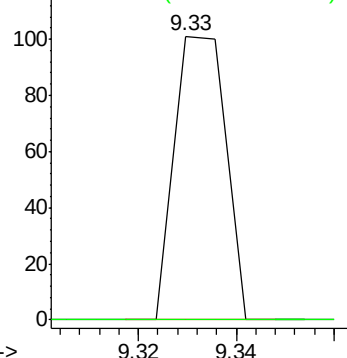
129 100

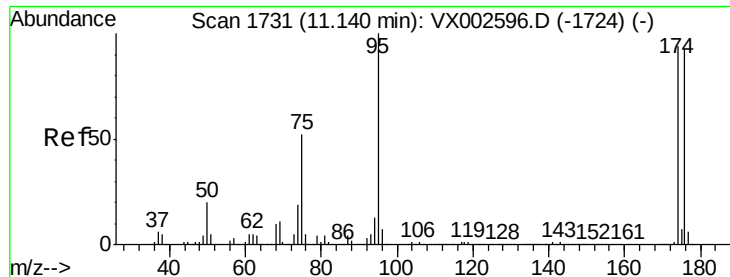
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 44.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#20

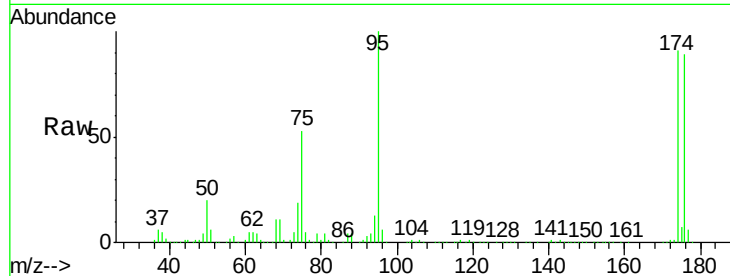
Tot Ion: 95 Resp: 166550

Ion Ratio Lower Upper

95 100

174 95.8 0.0 187.4

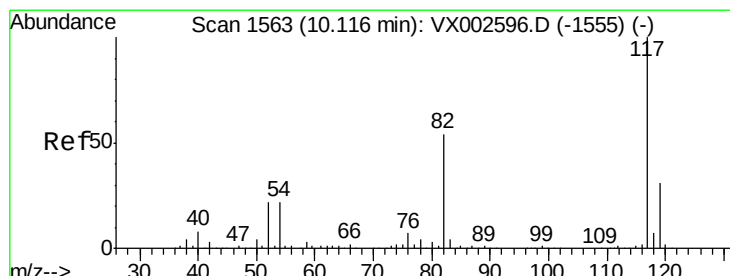
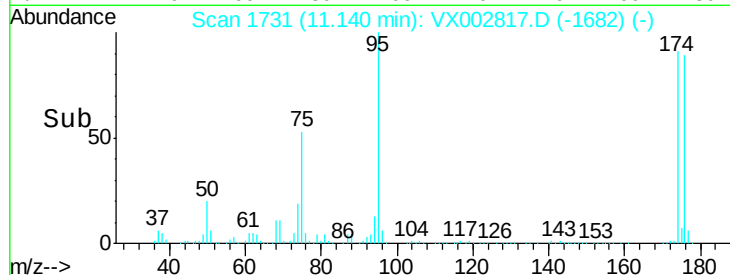
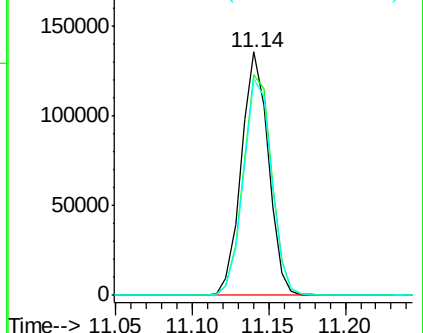
176 92.7 0.0 181.0



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

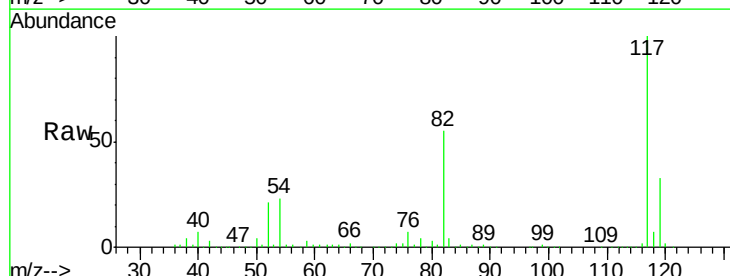
Tgt Ion: 117 Resp: 309789

Ion Ratio Lower Upper

117 100

82 55.1 45.0 67.4

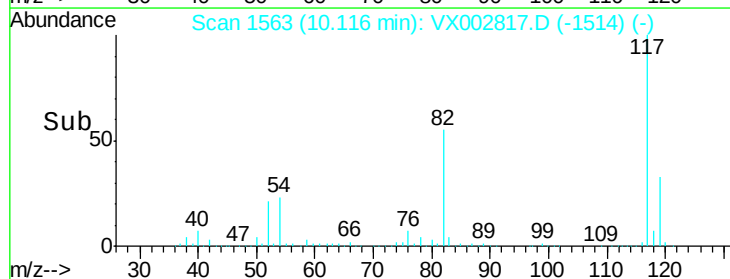
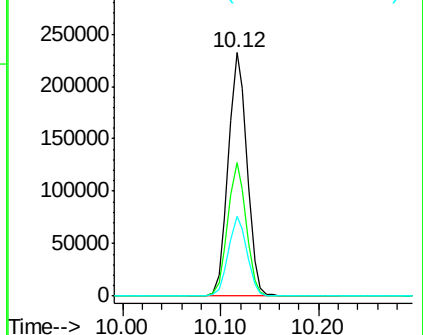
119 32.9 25.8 38.6

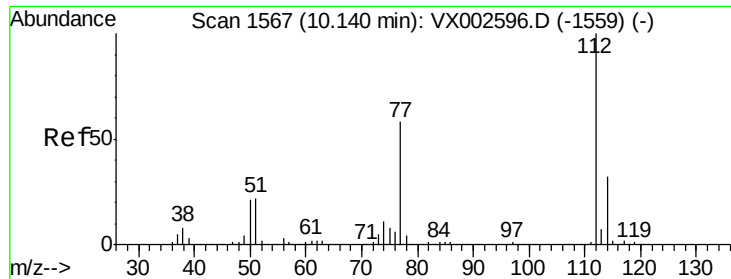


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

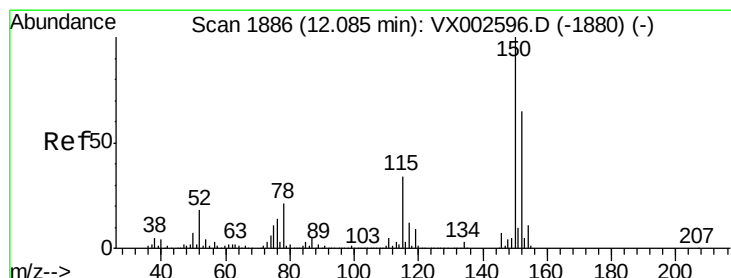
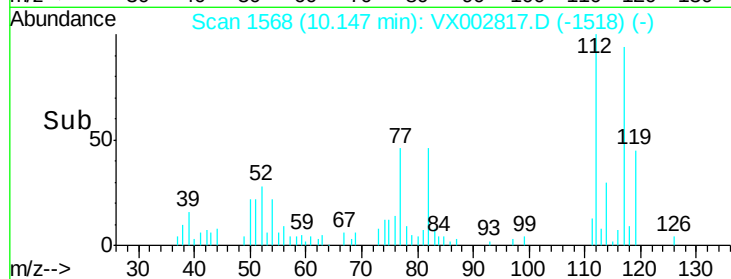
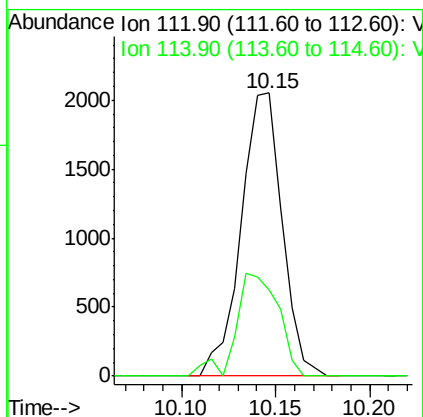
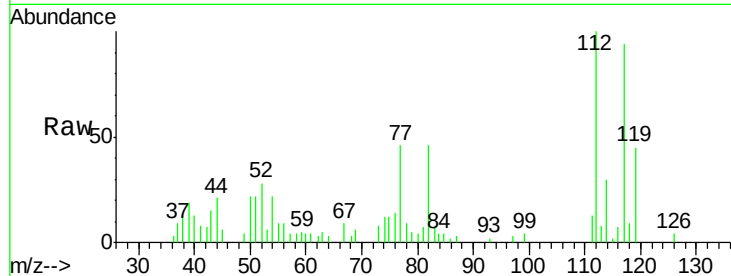




#65
Chlorobenzene
Concen: 0.41 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002817.D
Acq: 22 Jun 2018 04:53

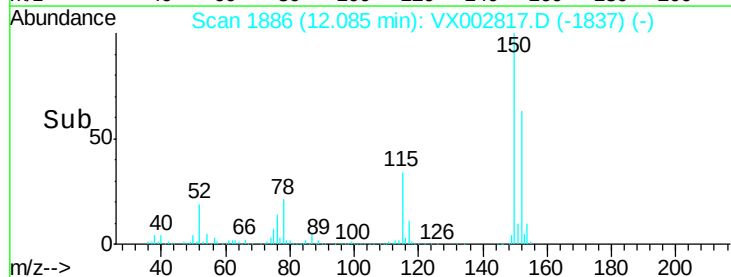
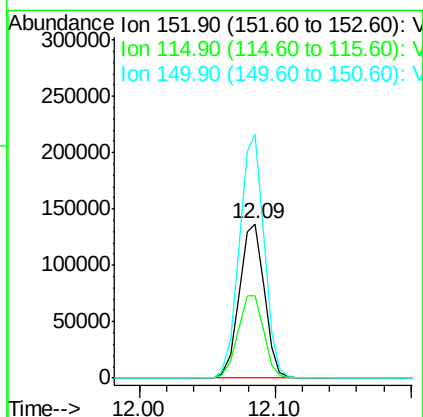
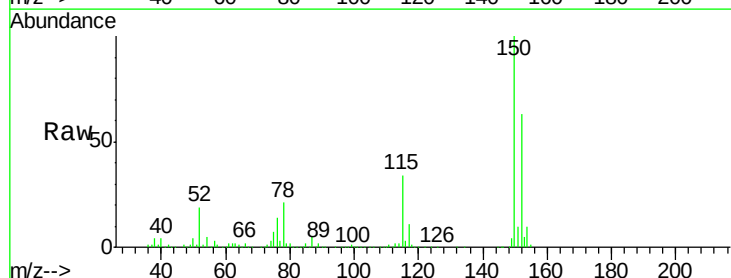
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#20

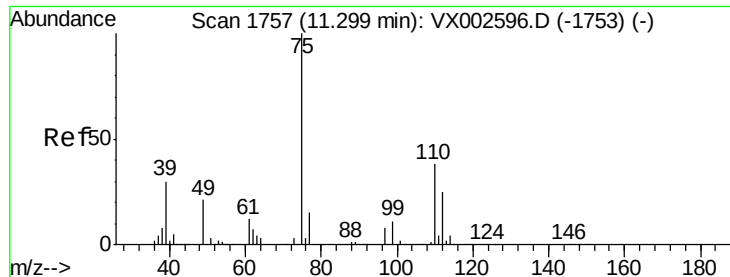
Tot Ion:112 Resp: 3107
Ion Ratio Lower Upper
112 100
114 30.3 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002817.D
Acq: 22 Jun 2018 04:53

Tgt Ion:152 Resp: 174431
Ion Ratio Lower Upper
152 100
115 54.9 40.1 120.2
150 156.6 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 26.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

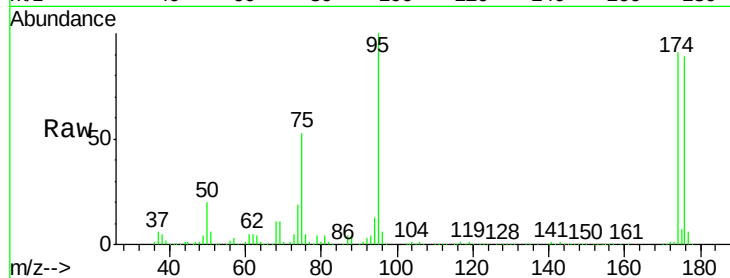
PB110441ZHE#20

Tot Ion: 75 Resp: 88763

Ion Ratio Lower Upper

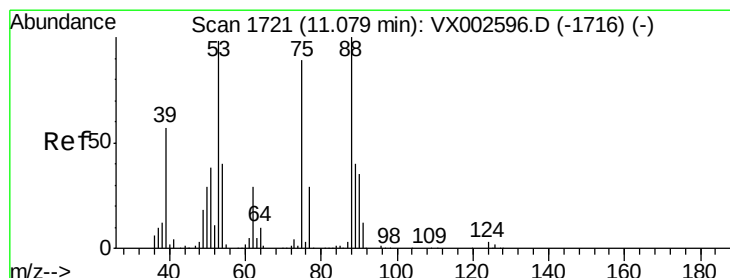
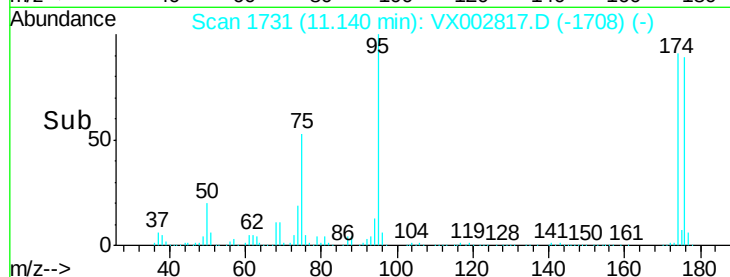
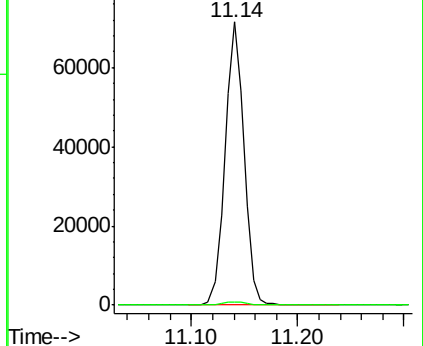
75 100

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: 83.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

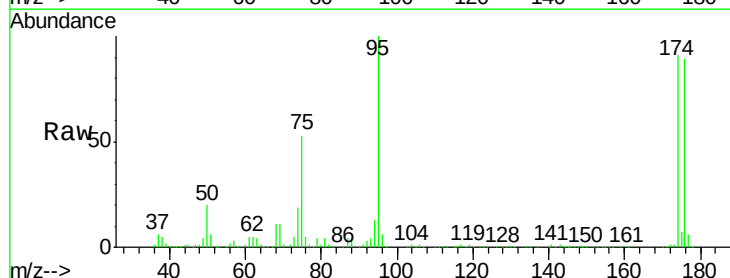
Tgt Ion: 75 Resp: 88763

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

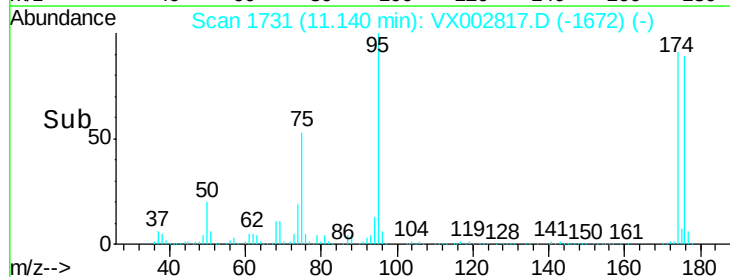
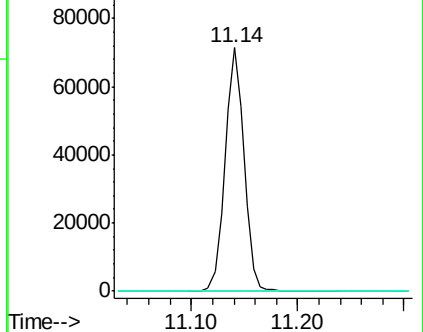
89 0.0 38.2 57.2#

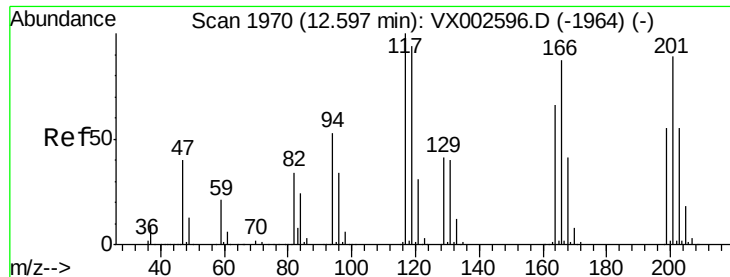


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.60 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

Instrument :

MSVOA_X

ClientSampleId :

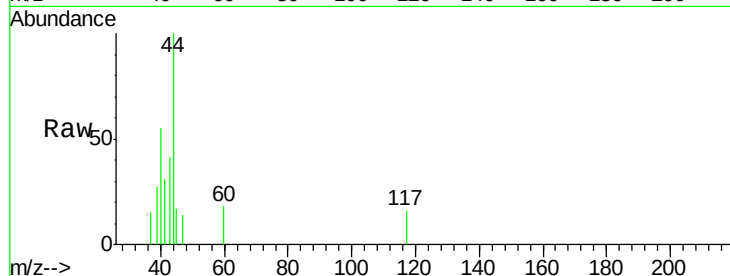
PB110441ZHE#20

Tot Ion:117 Resp: 21

Ion Ratio Lower Upper

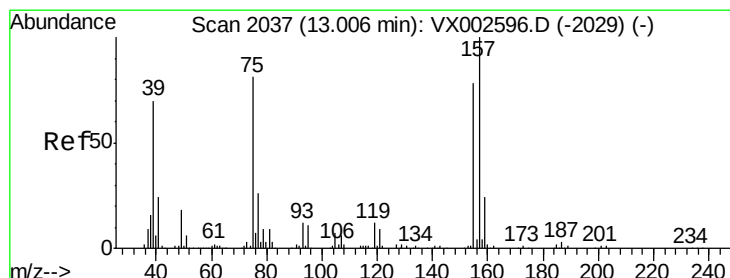
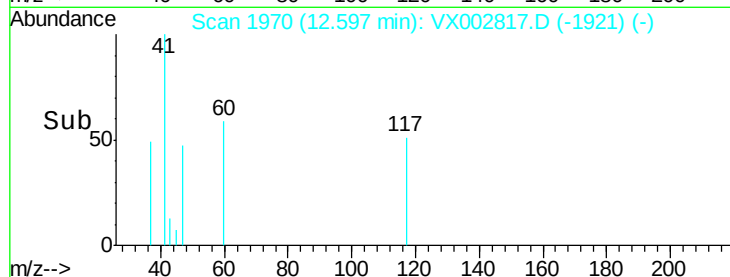
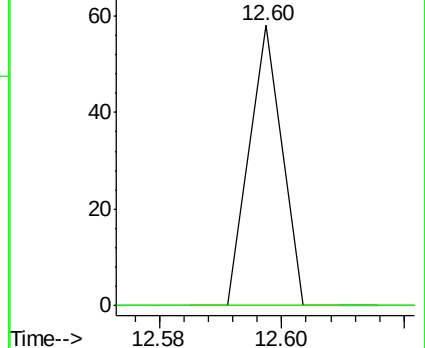
117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.43 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX002817.D

Acq: 22 Jun 2018 04:53

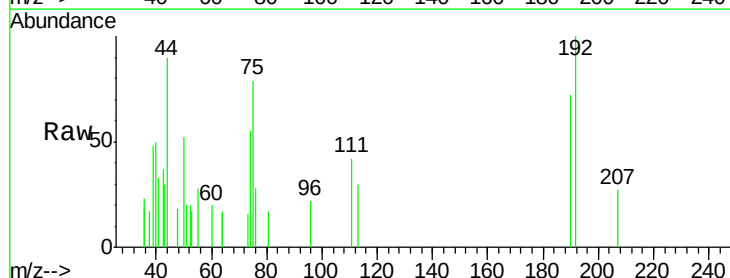
Tgt Ion: 75 Resp: 312

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

