

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM082616\
 Data File : BM007299.D
 Acq On : 26 Aug 2016 17:53
 Operator : UM/SJ
 Sample : MDL-04-S
 Misc : MDL 0.07
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Quant Time: Aug 26 23:47:37 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM081516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 26 23:46:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	1039	0.40	ng/ul	0.00
2) Naphthalene-d8	10.60	136	3840	0.40	ng/ul	0.01
6) Acenaphthene-d10	14.43	164	2412	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.18	188	6817	0.40	ng/ul	0.00
16) Chrysene-d12	21.36	240	7541	0.40	ng/ul	0.00
20) Perylene-d12	23.63	264	7616	0.40	ng/ul	0.00

System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.19	152	1702	0.35	ng/ul	0.01
14) Fluoranthene-d10	19.21	212	6009	0.39	ng/ul	0.00

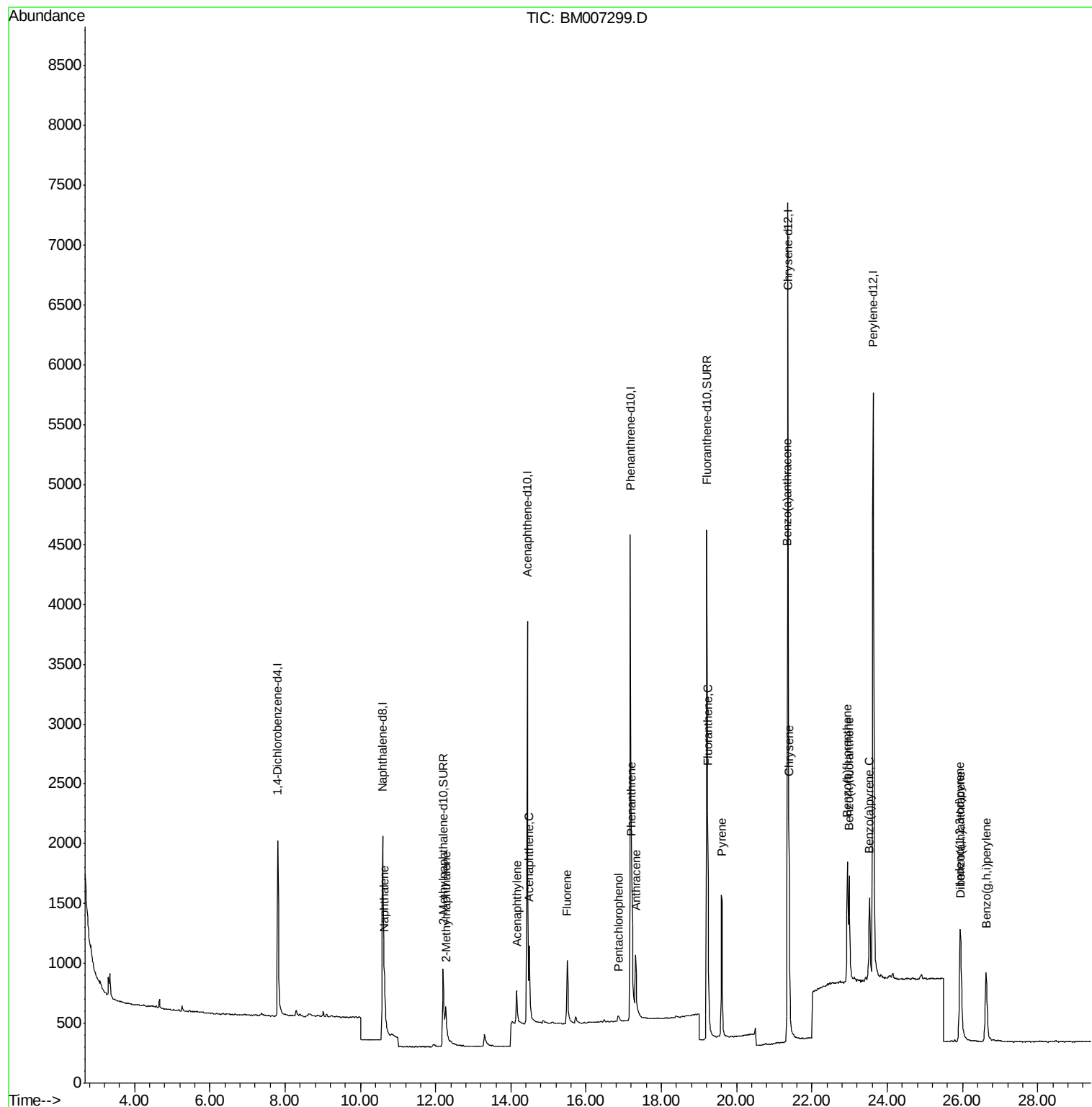
Target Compounds				Qvalue		
3) Naphthalene	10.65	128	543	0.06	ng/ul#	51
5) 2-Methylnaphthalene	12.27	142	357	0.06	ng/ul	99
7) Acenaphthylene	14.16	152	583	0.04	ng/ul#	69
8) Acenaphthene	14.49	153	452	0.05	ng/ul#	76
9) Fluorene	15.50	166	533	0.06	ng/ul#	79
11) Pentachlorophenol	16.85	266	72	0.04	ng/ul#	84
12) Phenanthrene	17.21	178	1108	0.06	ng/ul#	78
13) Anthracene	17.31	178	876	0.05	ng/ul#	75
15) Fluoranthene	19.23	202	1524	0.07	ng/ul	81
17) Pyrene	19.60	202	1536	0.06	ng/ul#	91
18) Benzo(a)anthracene	21.35	228	1246	0.05	ng/ul#	88
19) Chrysene	21.39	228	1539	0.07	ng/ul#	88
21) Benzo(b)fluoranthene	22.94	252	1663	0.06	ng/ul	77
22) Benzo(k)fluoranthene	22.99	252	1339	0.06	ng/ul#	74
23) Benzo(a)pyrene	23.52	252	1426	0.06	ng/ul#	67
24) Indeno(1,2,3-cd)pyrene	25.93	276	1581	0.05	ng/ul#	93
25) Dibenzo(a,h)anthracene	25.95	278	1220	0.05	ng/ul#	73
26) Benzo(g,h,i)perylene	26.63	276	1507	0.06	ng/ul#	85

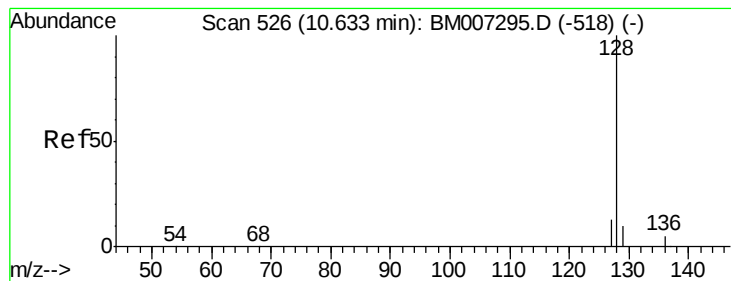
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.06 ng/ul

RT: 10.65 min Scan# 527

Delta R.T. 0.01 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

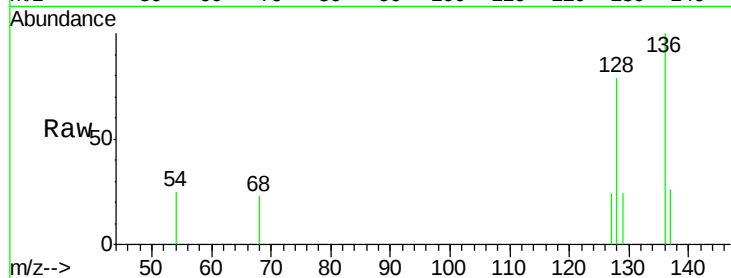
Tgt Ion:128 Resp: 543

Ion Ratio Lower Upper

128 100

129 30.2 9.0 13.6#

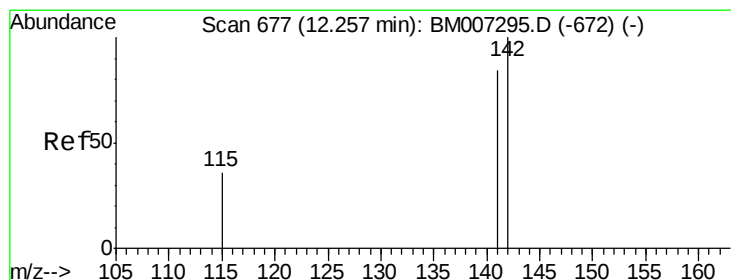
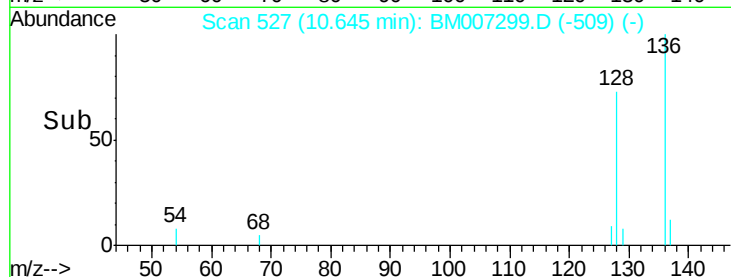
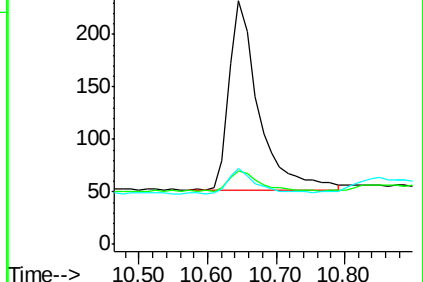
127 31.0 9.6 14.4#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.06 ng/ul

RT: 12.27 min Scan# 678

Delta R.T. 0.01 min

Lab File: BM007299.D

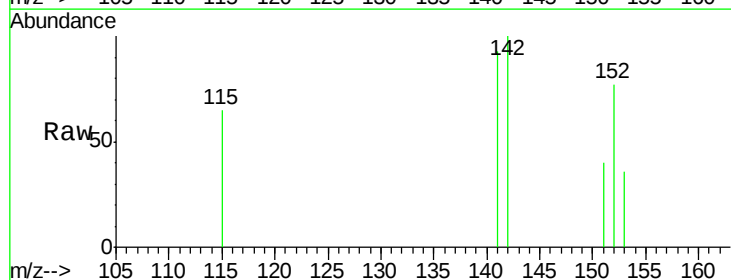
Acq: 26 Aug 2016 17:53

Tgt Ion:142 Resp: 357

Ion Ratio Lower Upper

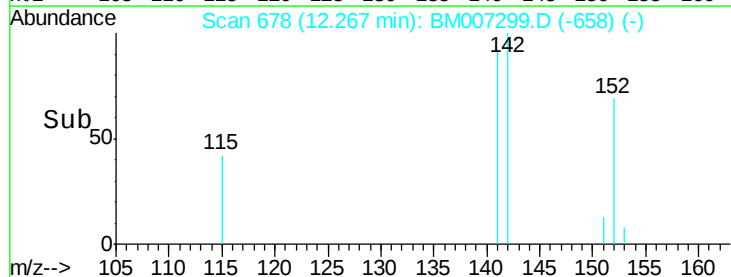
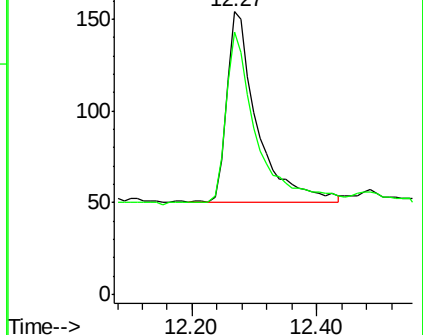
142 100

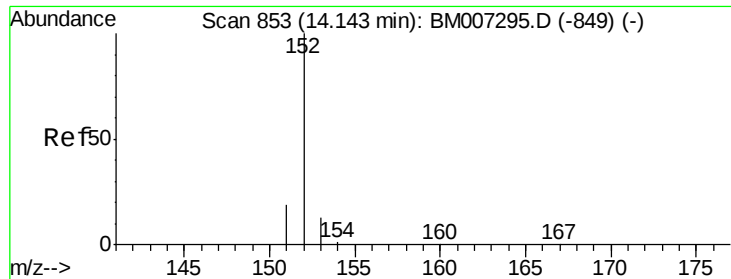
141 88.8 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.04 ng/ul

RT: 14.16 min Scan# 854

Delta R.T. 0.02 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

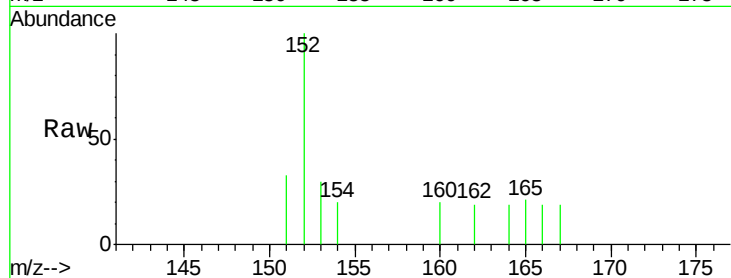
Tgt Ion:152 Resp: 583

Ion Ratio Lower Upper

152 100

151 32.7 17.6 26.4#

153 30.3 9.7 14.5#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

14.16

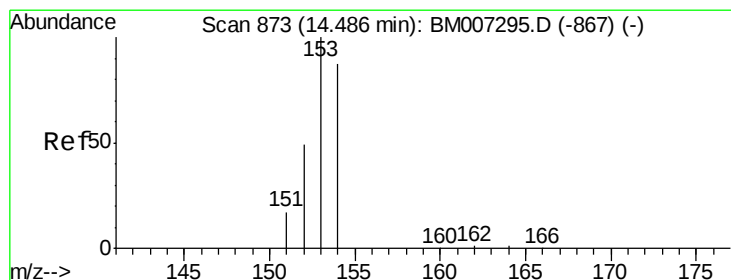
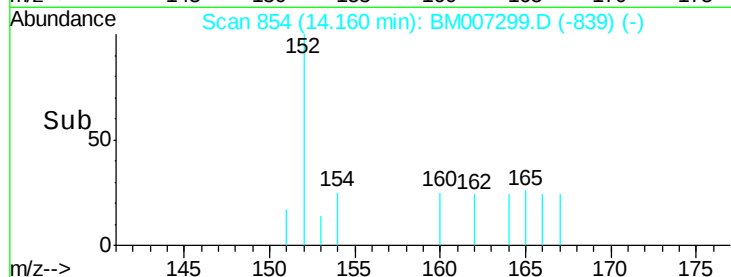
200

100

0

Time-->

14.00 14.20



#8

Acenaphthene

Concen: 0.05 ng/ul

RT: 14.49 min Scan# 873

Delta R.T. -0.00 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

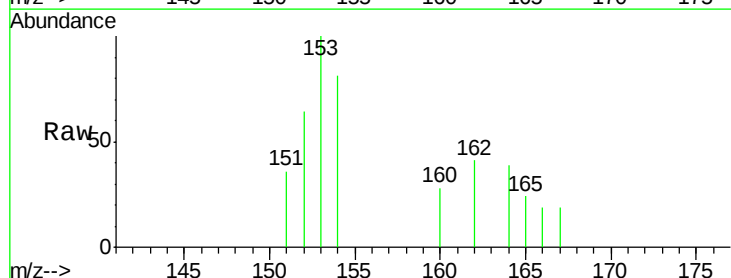
Tgt Ion:153 Resp: 452

Ion Ratio Lower Upper

153 100

152 63.8 33.9 50.9#

154 80.7 80.6 121.0



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

14.49

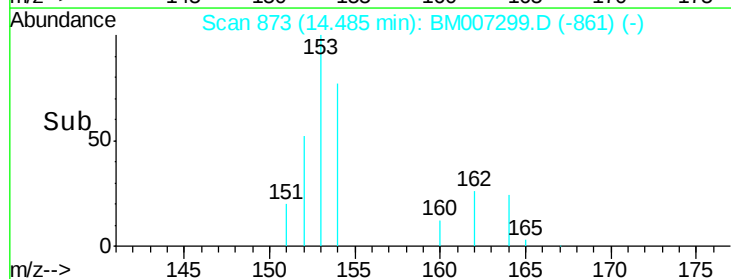
200

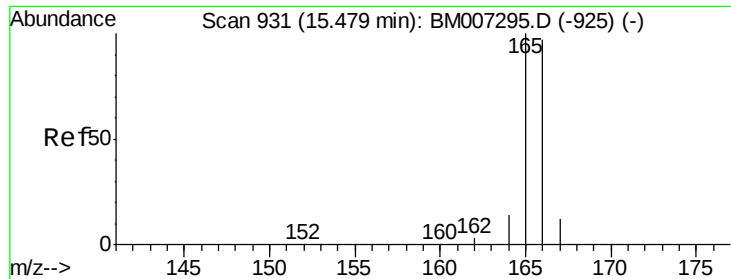
100

0

Time-->

14.40 14.50 14.60





#9

Fluorene

Concen: 0.06 ng/ul

RT: 15.50 min Scan# 932

Delta R.T. 0.02 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

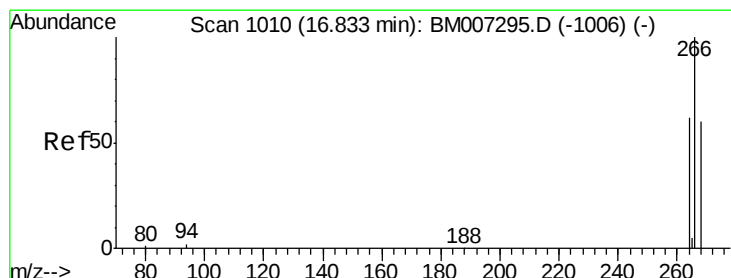
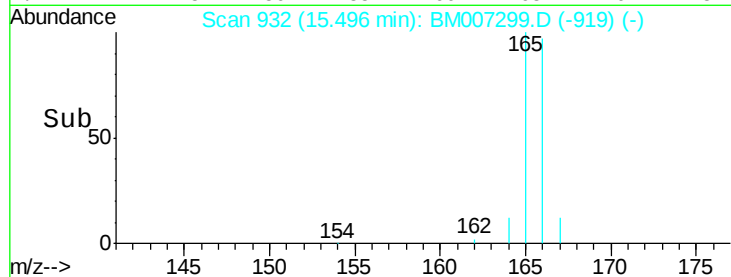
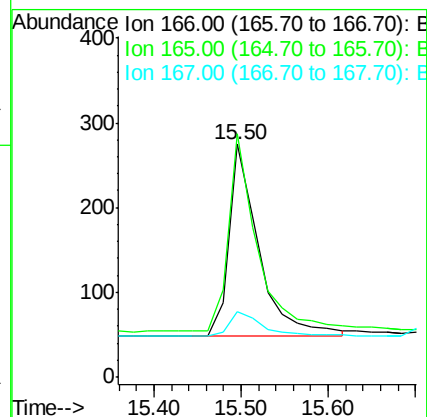
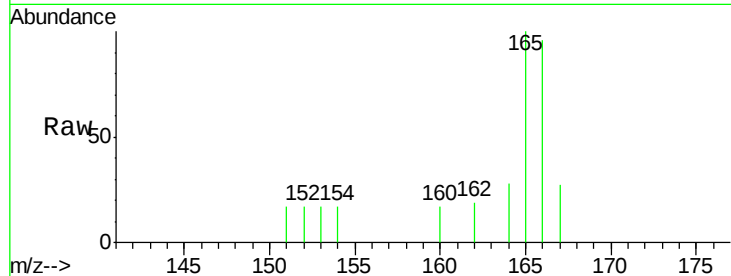
Tgt Ion:166 Resp: 533

Ion Ratio Lower Upper

166 100

165 104.4 69.6 104.4

167 28.0 11.9 17.9#



#11

Pentachlorophenol

Concen: 0.04 ng/ul

RT: 16.85 min Scan# 1011

Delta R.T. 0.02 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

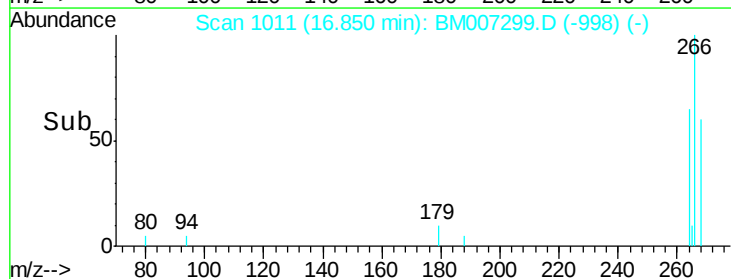
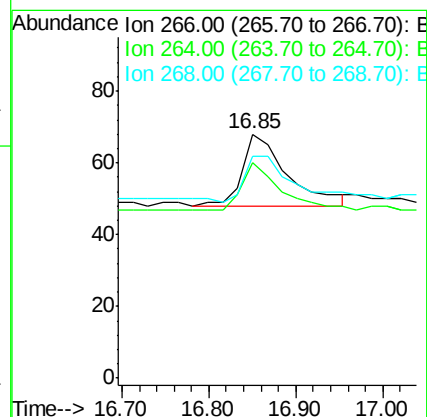
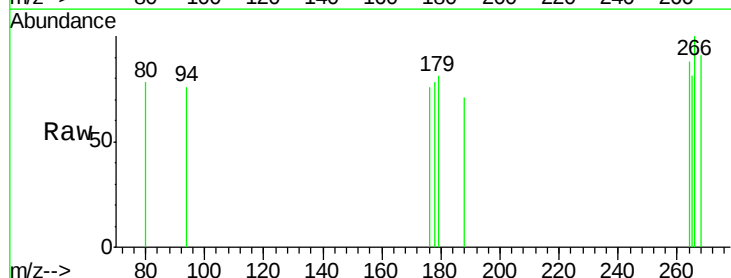
Tgt Ion:266 Resp: 72

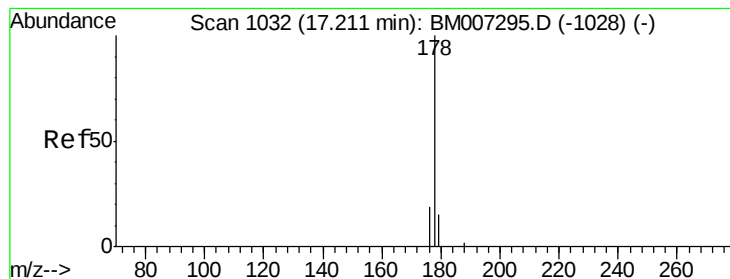
Ion Ratio Lower Upper

266 100

264 54.2 51.8 77.8

268 72.2 46.8 70.2#





#12

Phenanthrene

Concen: 0.06 ng/ul

RT: 17.21 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

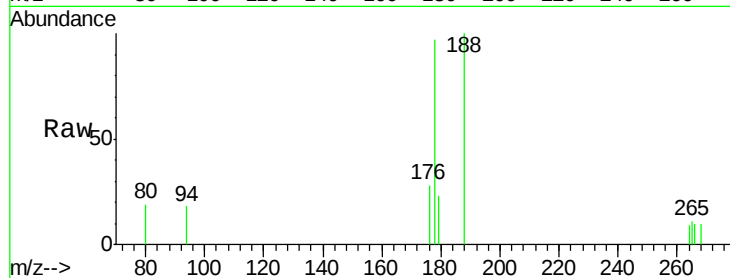
Tgt Ion:178 Resp: 1108

Ion Ratio Lower Upper

178 100

176 29.1 13.0 19.4#

179 23.6 14.2 21.2#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

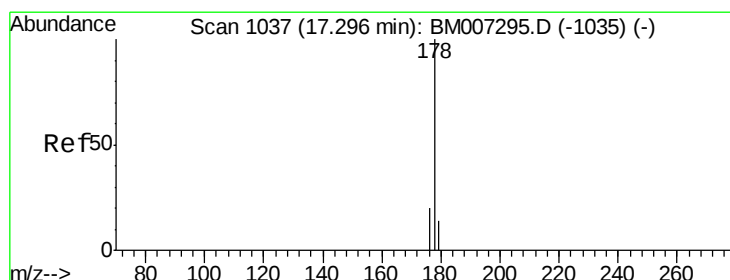
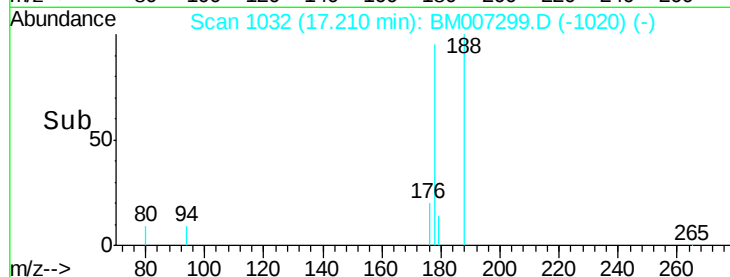
17.21

400

200

0

Time-->



#13

Anthracene

Concen: 0.05 ng/ul

RT: 17.31 min Scan# 1038

Delta R.T. 0.02 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

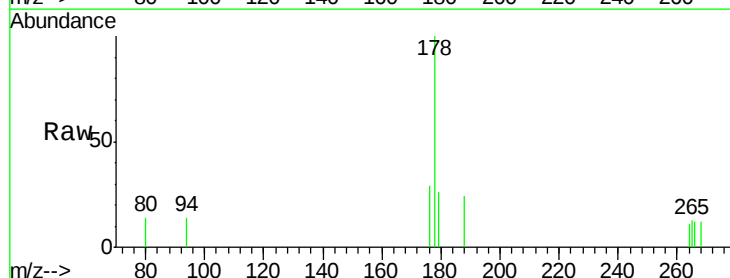
Tgt Ion:178 Resp: 876

Ion Ratio Lower Upper

178 100

176 29.3 14.0 21.0#

179 25.7 12.9 19.3#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

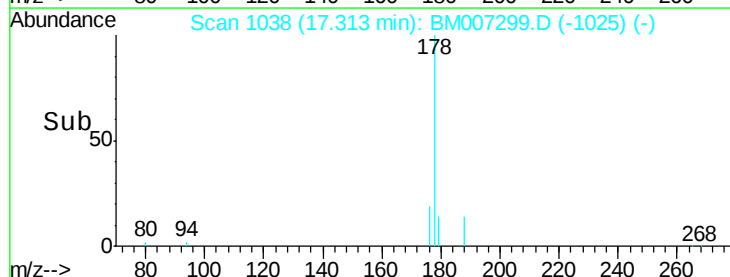
17.31

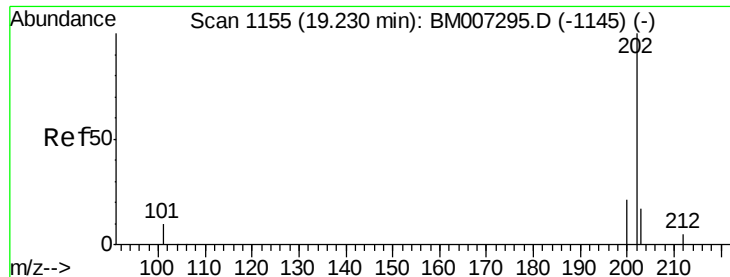
400

200

0

Time-->





#15

Fluoranthene

Concen: 0.07 ng/ul

RT: 19.23 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

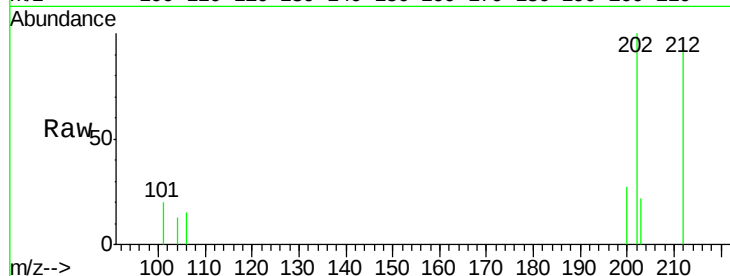
Tgt Ion:202 Resp: 1524

Ion Ratio Lower Upper

202 100

101 19.8 0.0 29.6

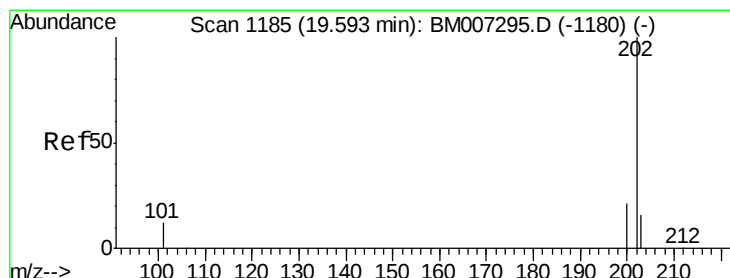
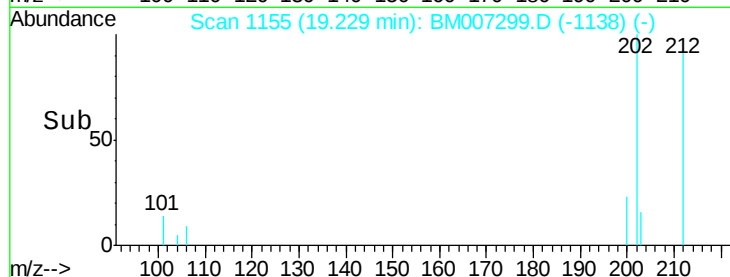
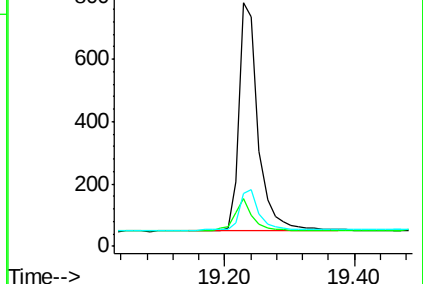
203 21.9 0.0 36.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#17

Pyrene

Concen: 0.06 ng/ul

RT: 19.60 min Scan# 1186

Delta R.T. 0.01 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

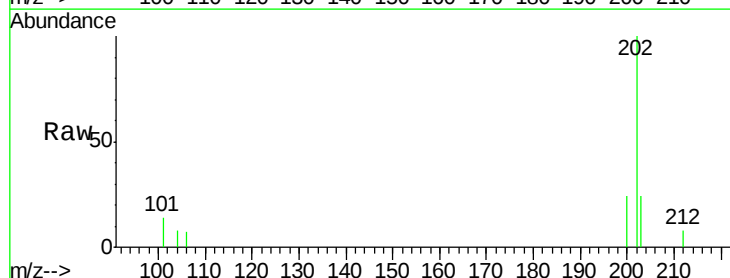
Tgt Ion:202 Resp: 1536

Ion Ratio Lower Upper

202 100

200 23.6 17.8 26.8

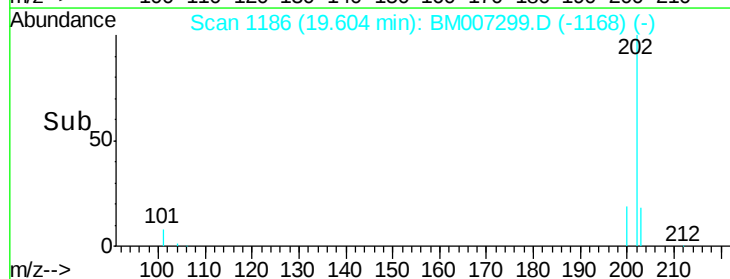
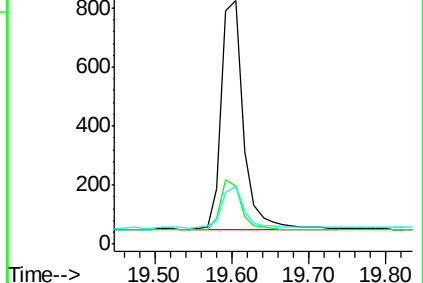
203 23.9 12.8 19.2#

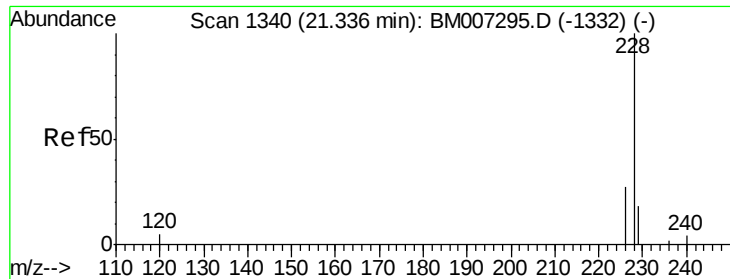


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.05 ng/ul

RT: 21.35 min Scan# 1341

Delta R.T. 0.01 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

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MDL-04-S

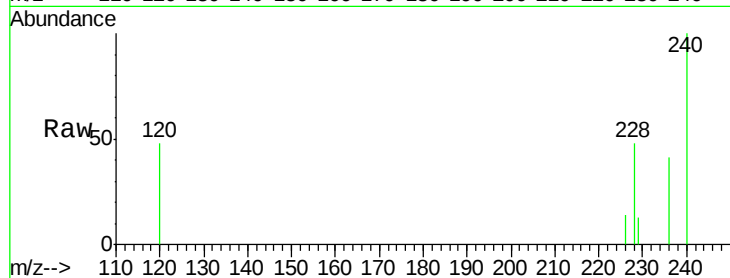
Tgt Ion:228 Resp: 1246

Ion Ratio Lower Upper

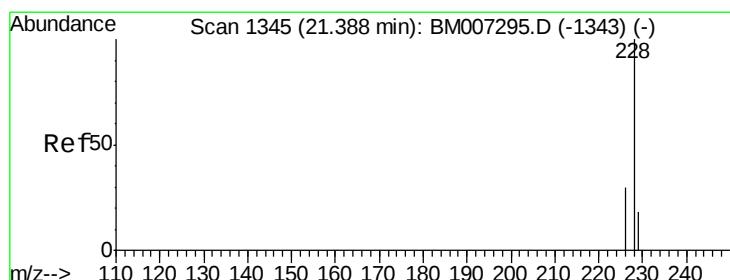
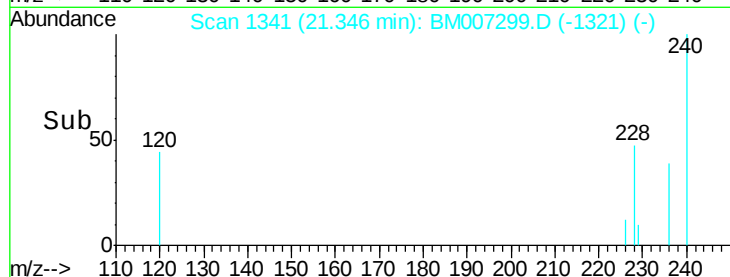
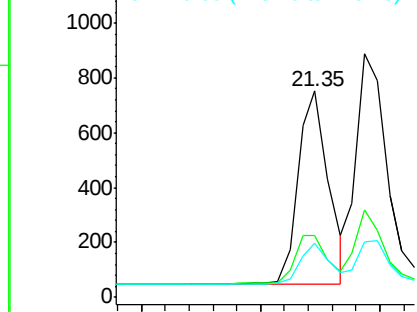
228 100

226 30.0 18.8 28.2#

229 26.2 17.1 25.7#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#19

Chrysene

Concen: 0.07 ng/ul

RT: 21.39 min Scan# 1345

Delta R.T. -0.00 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

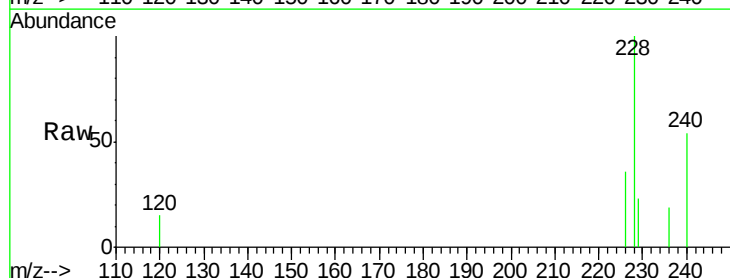
Tgt Ion:228 Resp: 1539

Ion Ratio Lower Upper

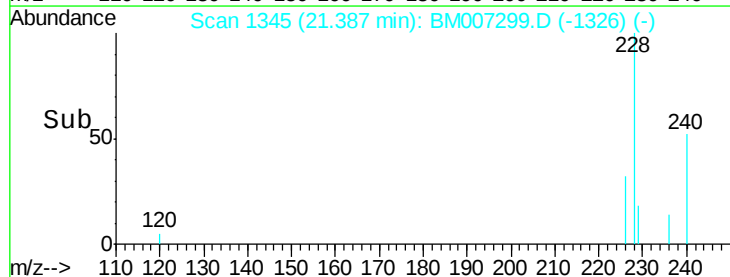
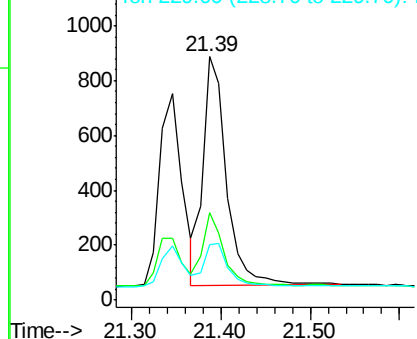
228 100

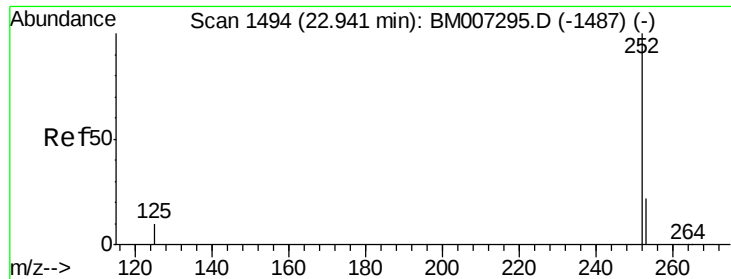
226 35.9 21.2 31.8#

229 22.7 17.0 25.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.06 ng/u1

RT: 22.94 min Scan# 1494

Delta R.T. -0.00 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

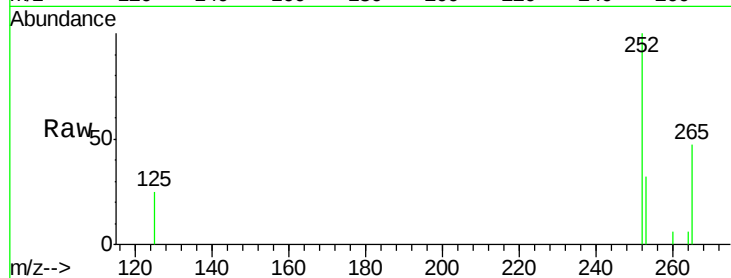
Tgt Ion:252 Resp: 1663

Ion Ratio Lower Upper

252 100

253 32.4 0.0 45.4

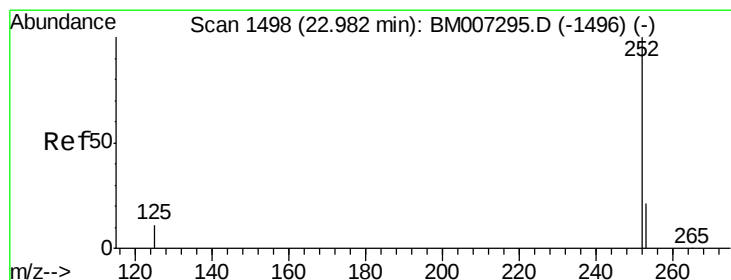
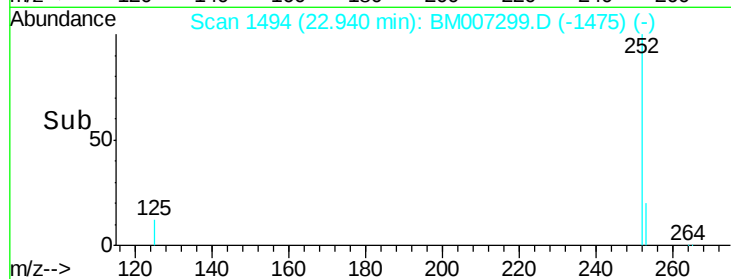
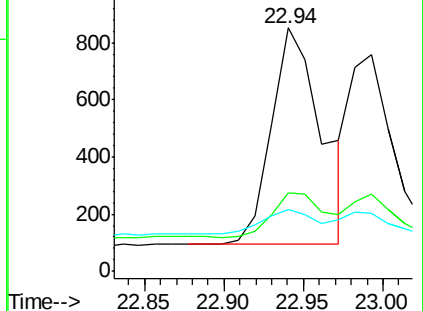
125 25.5 0.0 28.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 0.06 ng/u1

RT: 22.99 min Scan# 1499

Delta R.T. 0.01 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

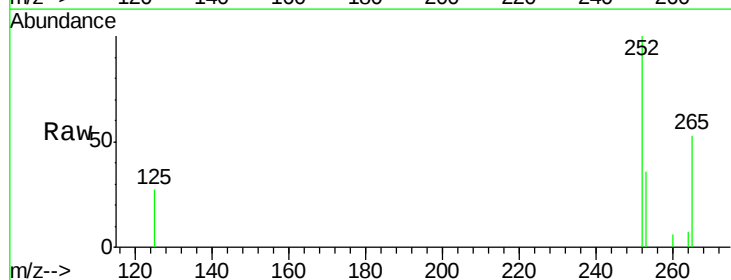
Tgt Ion:252 Resp: 1339

Ion Ratio Lower Upper

252 100

253 35.6 19.8 29.8#

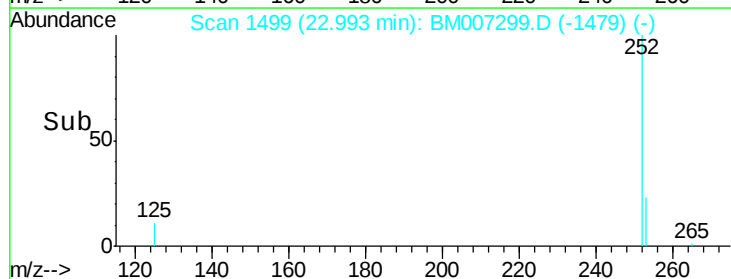
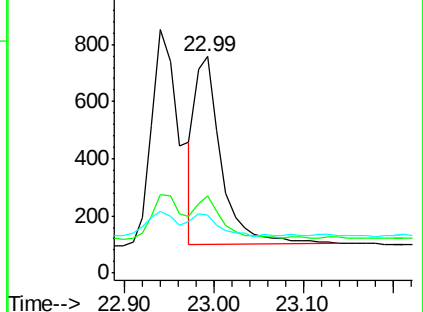
125 26.6 10.4 15.6#

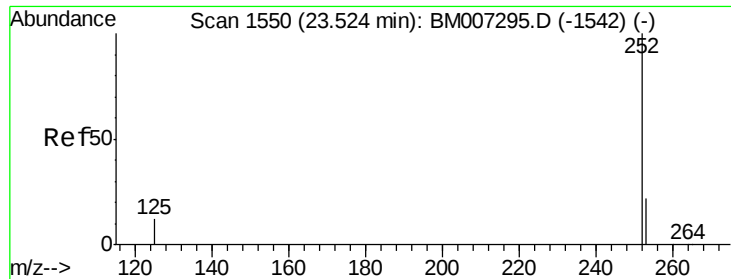


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.06 ng/ul

RT: 23.52 min Scan# 1550

Delta R.T. -0.00 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

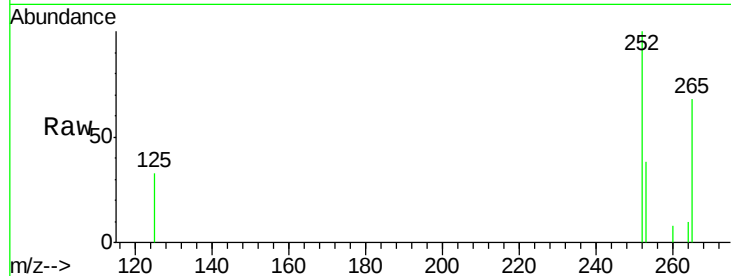
Tgt Ion:252 Resp: 1426

Ion Ratio Lower Upper

252 100

253 38.0 19.4 29.2#

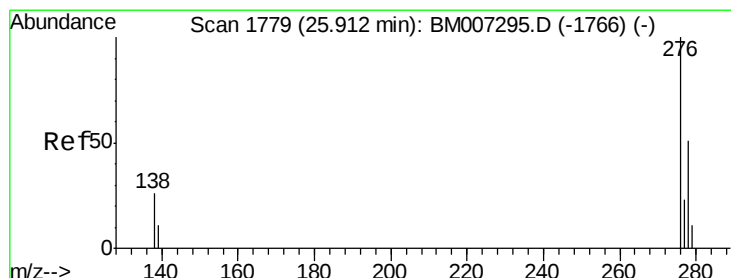
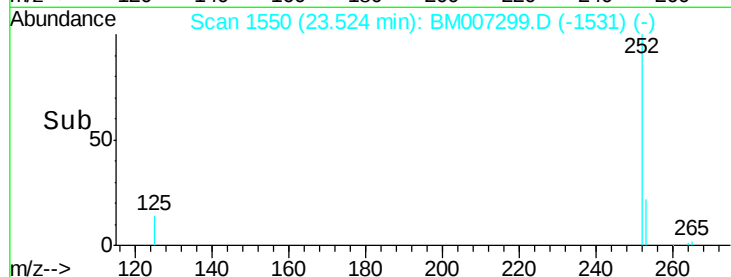
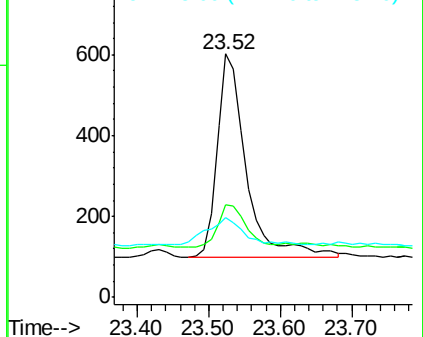
125 32.9 12.7 19.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng/ul

RT: 25.93 min Scan# 1781

Delta R.T. 0.02 min

Lab File: BM007299.D

Acq: 26 Aug 2016 17:53

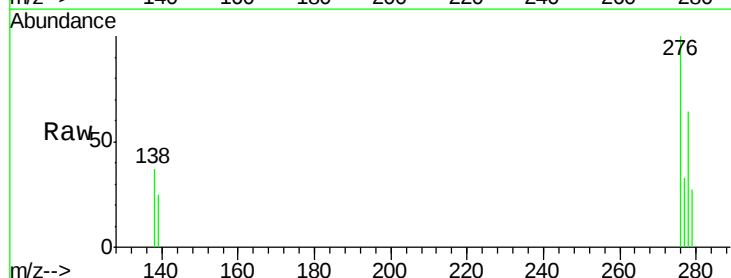
Tgt Ion:276 Resp: 1581

Ion Ratio Lower Upper

276 100

138 27.3 16.3 24.5#

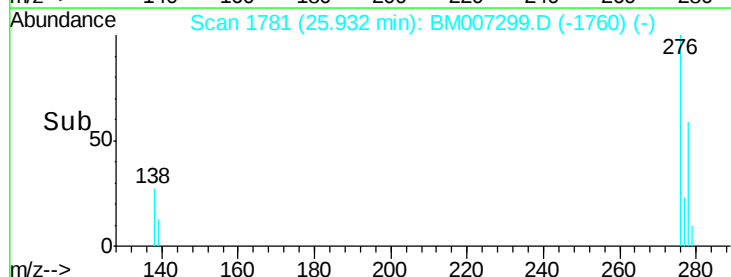
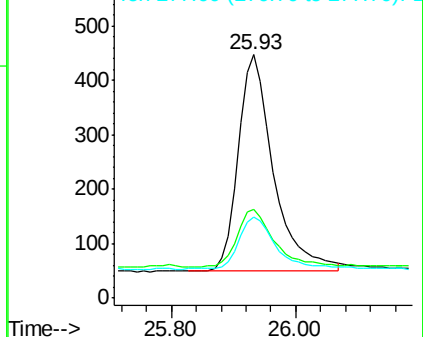
277 24.7 19.8 29.8

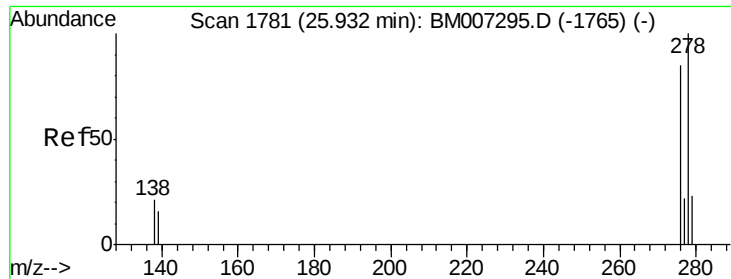


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



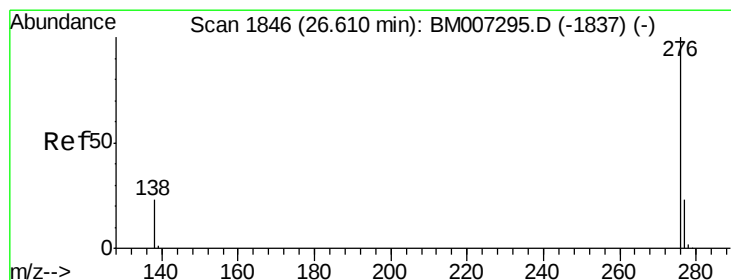
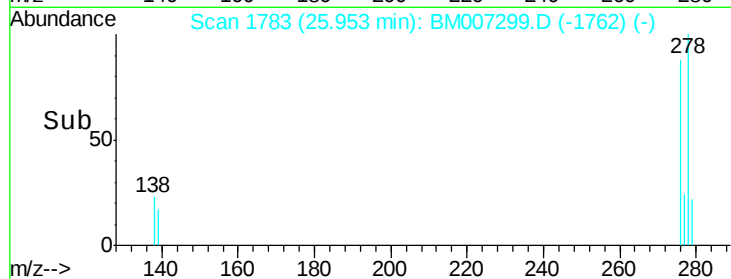
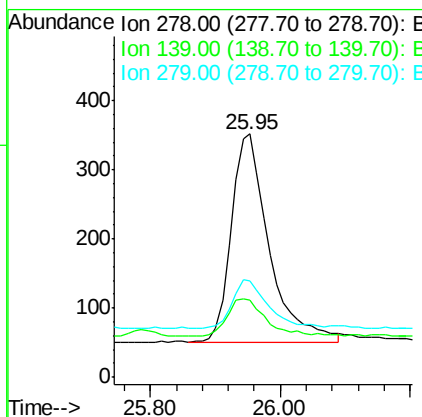
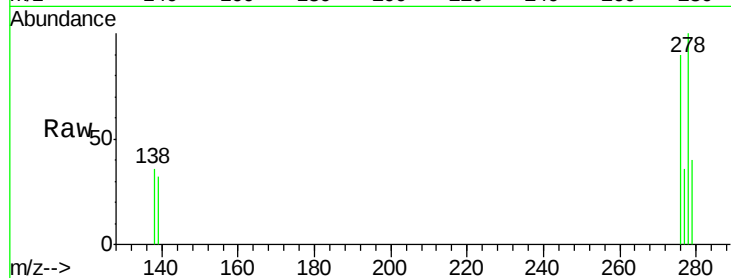


#25
Dibenzo(a,h)anthracene
Concen: 0.05 ng/ul
RT: 25.95 min Scan# 1783
Delta R.T. 0.02 min
Lab File: BM007299.D
Acq: 26 Aug 2016 17:53

Instrument :
BNA_M
ClientSampleId :
MDL-04-S

Tgt Ion: 278 Resp: 1220

Ion	Ratio	Lower	Upper
278	100		
139	31.8	16.4	24.6#
279	39.8	20.2	30.2#



#26
Benzo(g,h,i)perylene
Concen: 0.06 ng/ul
RT: 26.63 min Scan# 1848
Delta R.T. 0.02 min
Lab File: BM007299.D
Acq: 26 Aug 2016 17:53

Tgt Ion: 276 Resp: 1507

Ion	Ratio	Lower	Upper
276	100		
277	33.4	18.9	28.3#
138	33.9	22.5	33.7#

