

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM082616\
 Data File : BM007297.D
 Acq On : 26 Aug 2016 16:40
 Operator : UM/SJ
 Sample : MDL-02-S
 Misc : MDL 0.07
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-S

Quant Time: Aug 26 23:47:17 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	1343	0.40	ng/ul	0.00
2) Naphthalene-d8	10.60	136	5237	0.40	ng/ul	0.01
6) Acenaphthene-d10	14.43	164	3361	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.18	188	9550	0.40	ng/ul	0.00
16) Chrysene-d12	21.36	240	10457	0.40	ng/ul	0.00
20) Perylene-d12	23.63	264	10808	0.40	ng/ul	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.19	152	2193	0.33	ng/ul	0.01
14) Fluoranthene-d10	19.21	212	7438	0.35	ng/ul	0.00

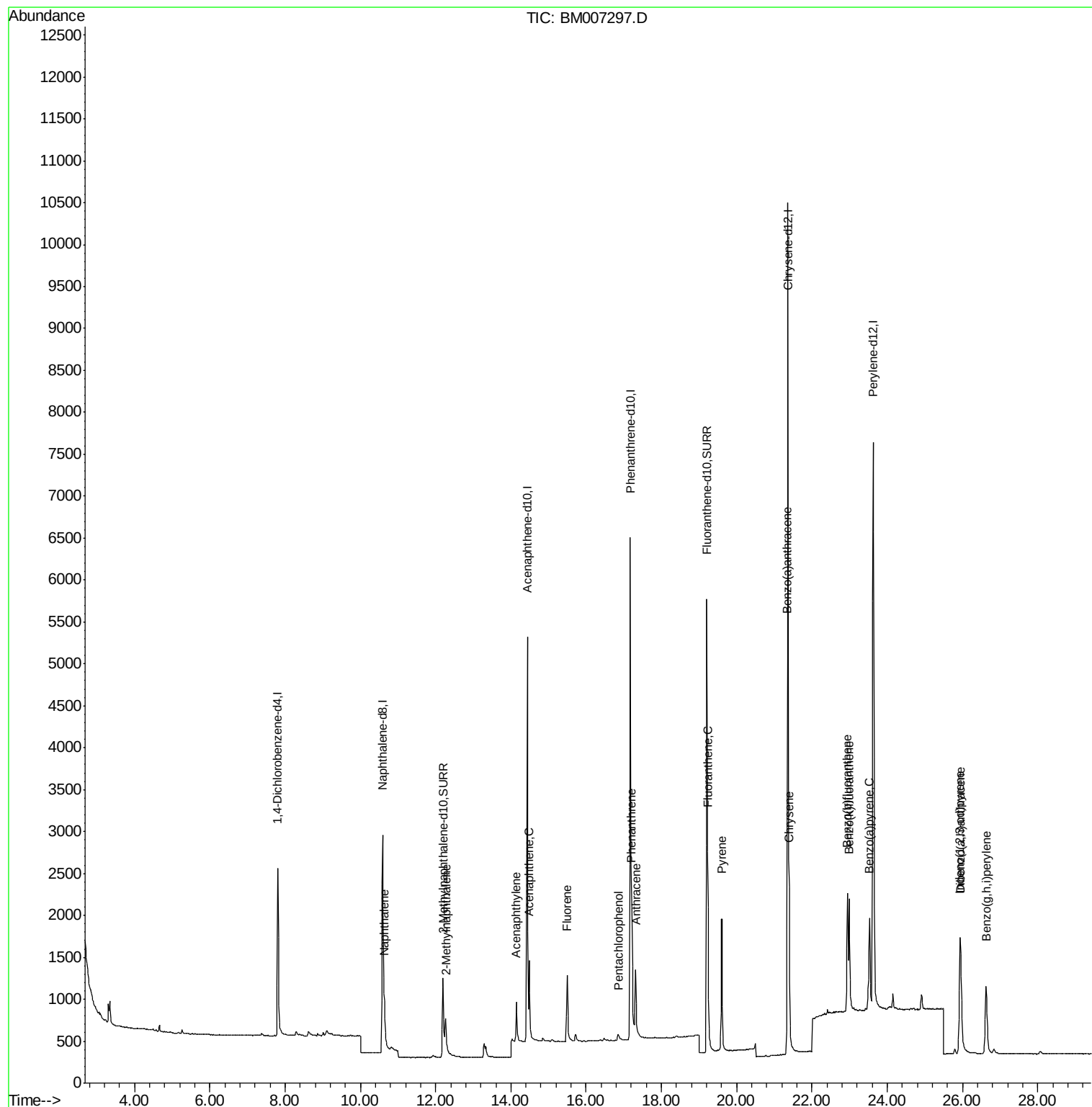
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.65	128	734	0.06	ng/ul#	66
5) 2-Methylnaphthalene	12.27	142	505	0.06	ng/ul	95
7) Acenaphthylene	14.14	152	818	0.04	ng/ul#	79
8) Acenaphthene	14.49	153	629	0.05	ng/ul#	81
9) Fluorene	15.50	166	752	0.06	ng/ul#	88
11) Pentachlorophenol	16.85	266	94	0.04	ng/ul	92
12) Phenanthrene	17.21	178	1524	0.06	ng/ul#	86
13) Anthracene	17.31	178	1226	0.05	ng/ul#	84
15) Fluoranthene	19.23	202	2034	0.06	ng/ul	86
17) Pyrene	19.60	202	2056	0.06	ng/ul#	94
18) Benzo(a)anthracene	21.35	228	1723	0.05	ng/ul#	92
19) Chrysene	21.40	228	2081	0.07	ng/ul	93
21) Benzo(b)fluoranthene	22.94	252	2297	0.06	ng/ul	82
22) Benzo(k)fluoranthene	22.99	252	1942	0.06	ng/ul#	85
23) Benzo(a)pyrene	23.52	252	2080	0.06	ng/ul#	79
24) Indeno(1,2,3-cd)pyrene	25.93	276	2296	0.05	ng/ul#	93
25) Dibenzo(a,h)anthracene	25.94	278	1759	0.05	ng/ul#	82
26) Benzo(g,h,i)perylene	26.63	276	2077	0.06	ng/ul#	90

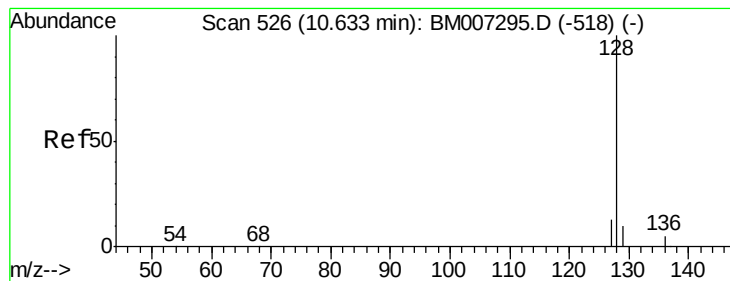
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

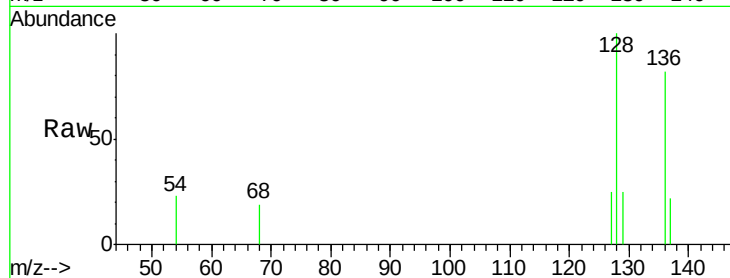
Tgt Ion:128 Resp: 734

Ion Ratio Lower Upper

128 100

129 24.6 9.0 13.6#

127 24.6 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

10.65

300

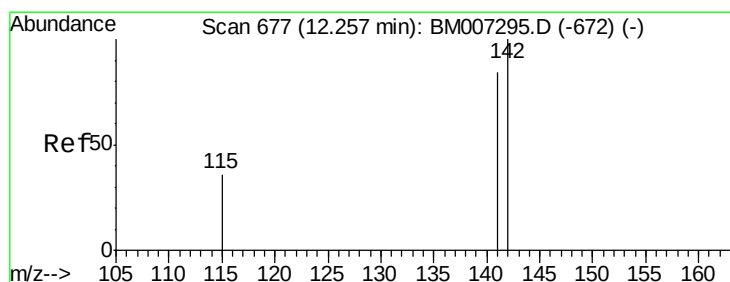
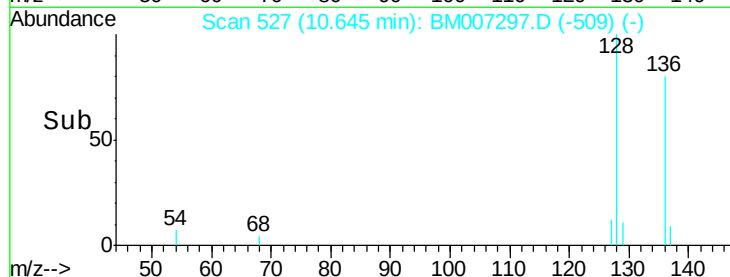
200

100

0

10.60 10.80

Time-->



#5

2-Methylnaphthalene

Concen: 0.06 ng/ul

RT: 12.27 min Scan# 678

Delta R.T. 0.01 min

Lab File: BM007297.D

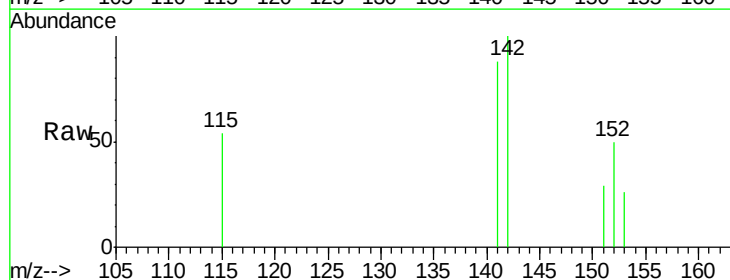
Acq: 26 Aug 2016 16:40

Tgt Ion:142 Resp: 505

Ion Ratio Lower Upper

142 100

141 92.3 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

250

200

150

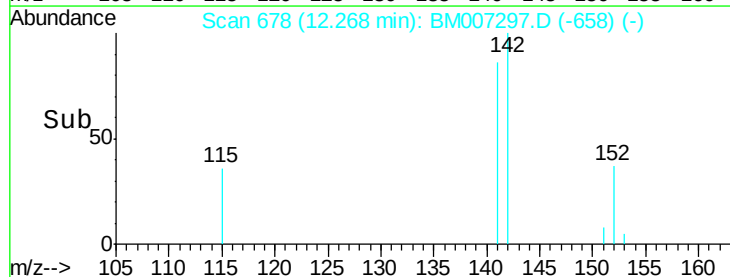
100

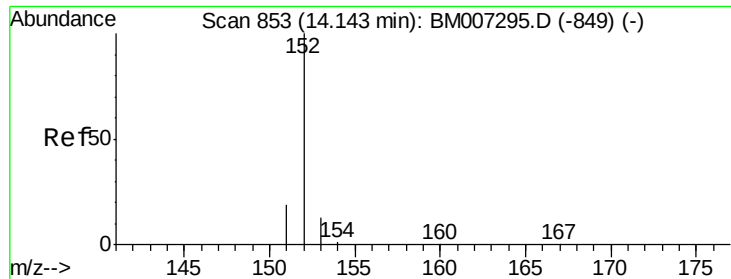
50

0

12.20 12.30 12.40 12.50

Time-->





#7

Acenaphthylene

Concen: 0.04 ng/ul

RT: 14.14 min Scan# 853

Delta R.T. -0.00 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

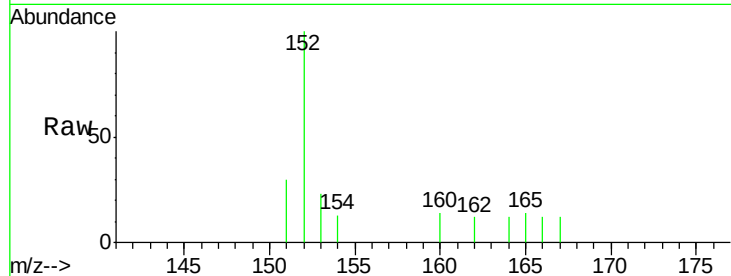
Tgt Ion:152 Resp: 818

Ion Ratio Lower Upper

152 100

151 29.9 17.6 26.4#

153 22.9 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

14.14

400

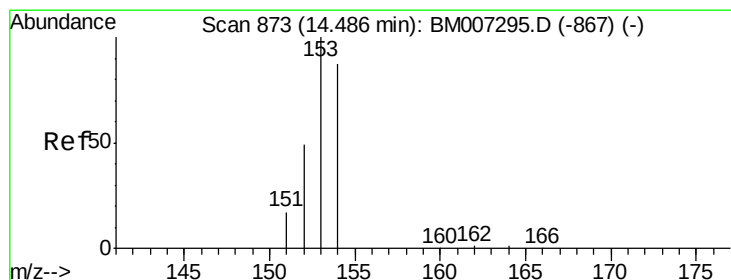
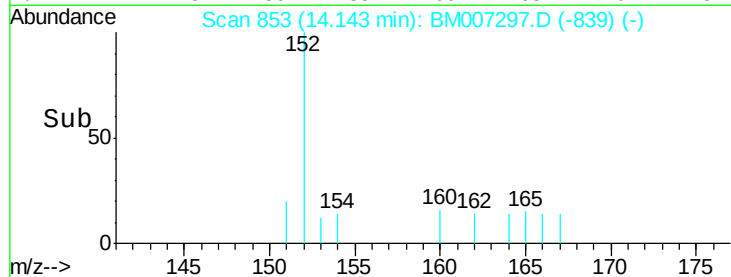
300

200

100

0

Time--> 14.00 14.10 14.20 14.30



#8

Acenaphthene

Concen: 0.05 ng/ul

RT: 14.49 min Scan# 873

Delta R.T. -0.00 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

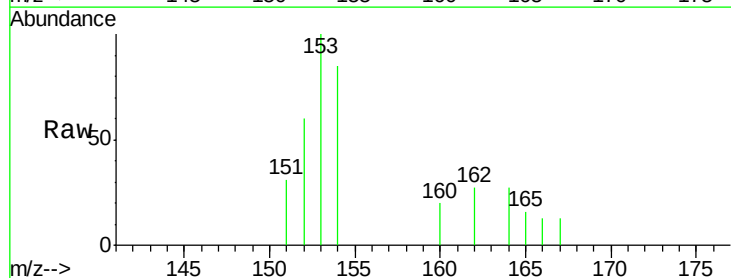
Tgt Ion:153 Resp: 629

Ion Ratio Lower Upper

153 100

152 59.9 33.9 50.9#

154 85.2 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

400

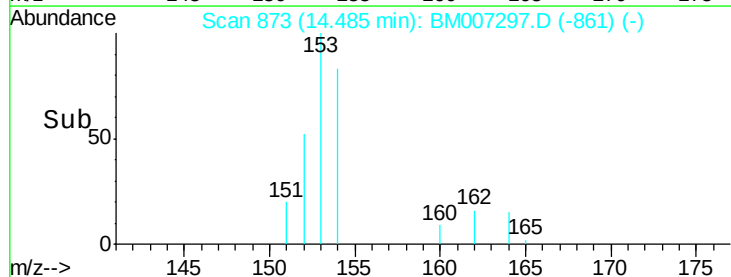
300

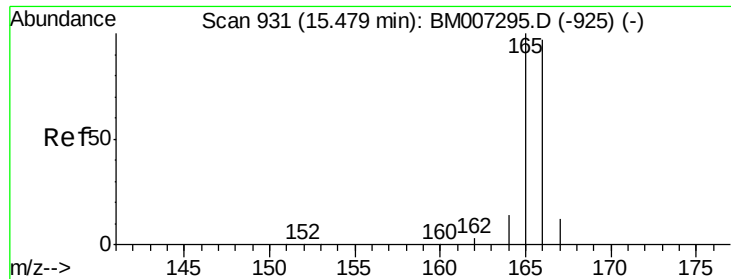
200

100

0

Time--> 14.40 14.50 14.60

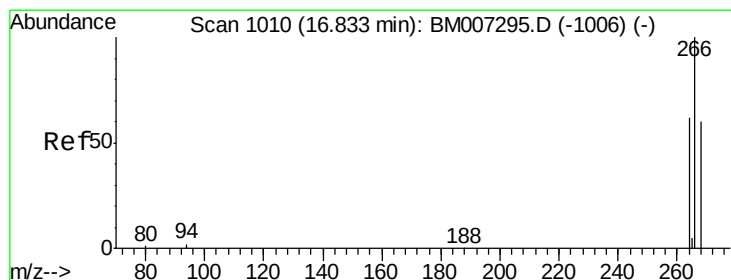
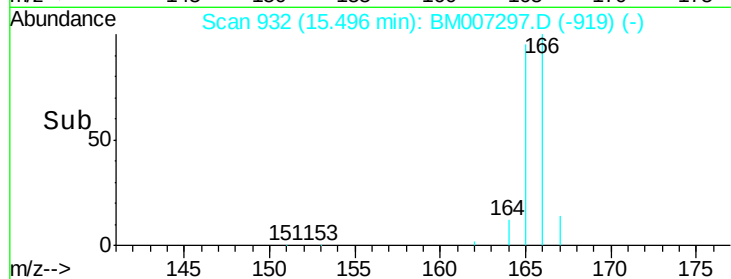
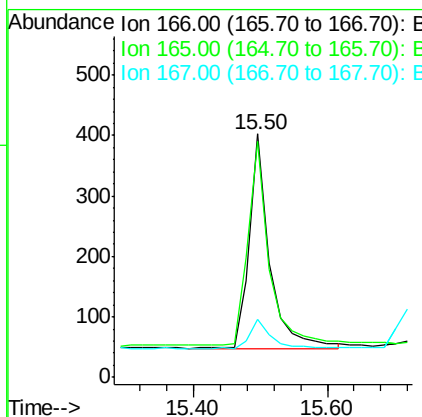
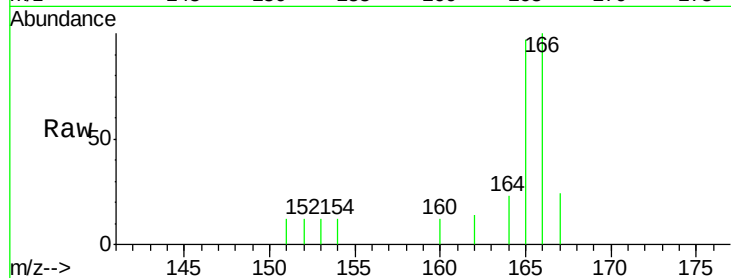




#9
Fluorene
 Concen: 0.06 ng/ul
 RT: 15.50 min Scan# 932
 Delta R.T. 0.02 min
 Lab File: BM007297.D
 Acq: 26 Aug 2016 16:40

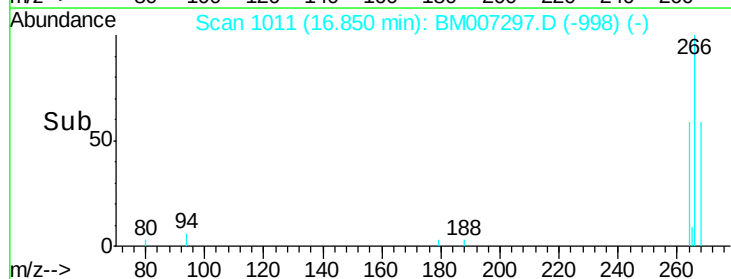
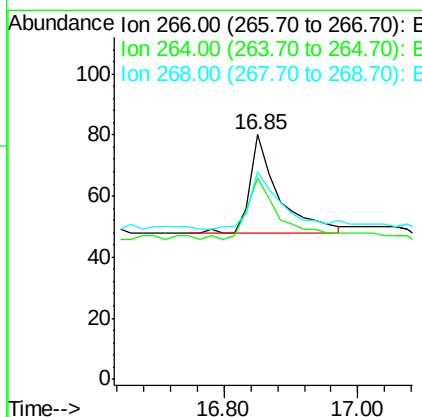
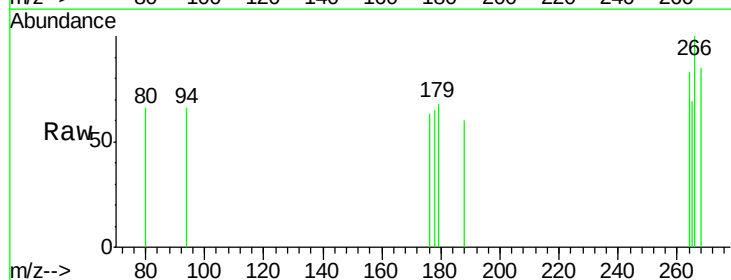
Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-S

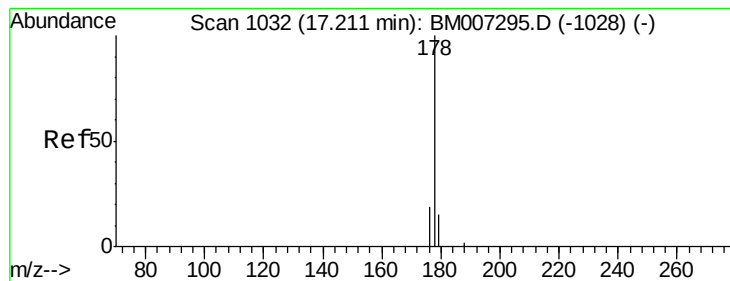
Tgt Ion:166 Resp: 752
 Ion Ratio Lower Upper
 166 100
 165 97.0 69.6 104.4
 167 24.1 11.9 17.9#



#11
Pentachlorophenol
 Concen: 0.04 ng/ul
 RT: 16.85 min Scan# 1011
 Delta R.T. 0.02 min
 Lab File: BM007297.D
 Acq: 26 Aug 2016 16:40

Tgt Ion:266 Resp: 94
 Ion Ratio Lower Upper
 266 100
 264 69.1 51.8 77.8
 268 67.0 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: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

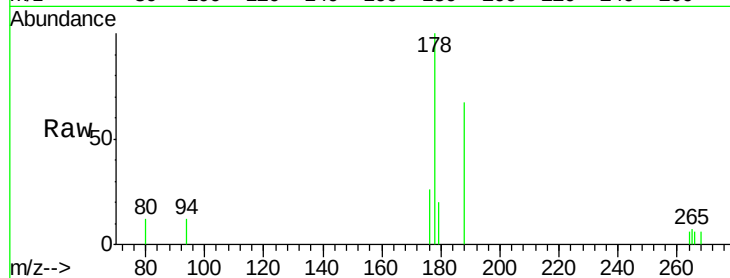
Tgt Ion:178 Resp: 1524

Ion Ratio Lower Upper

178 100

176 25.7 13.0 19.4#

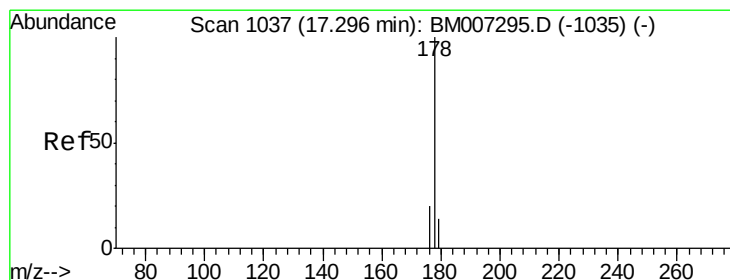
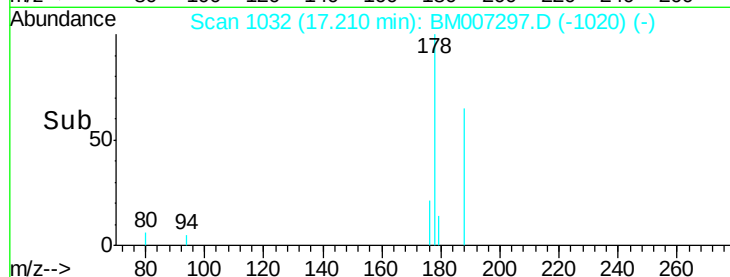
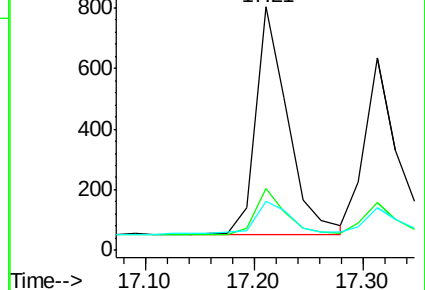
179 20.3 14.2 21.2



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



#13

Anthracene

Concen: 0.05 ng/ul

RT: 17.31 min Scan# 1038

Delta R.T. 0.02 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

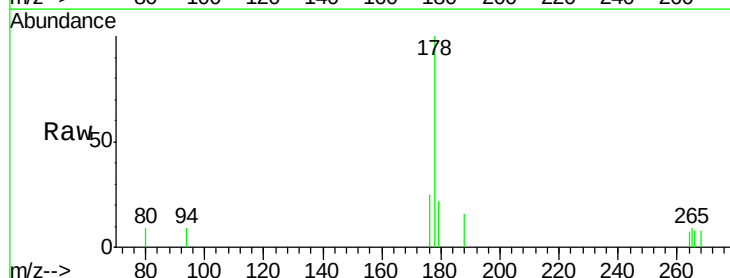
Tgt Ion:178 Resp: 1226

Ion Ratio Lower Upper

178 100

176 25.0 14.0 21.0#

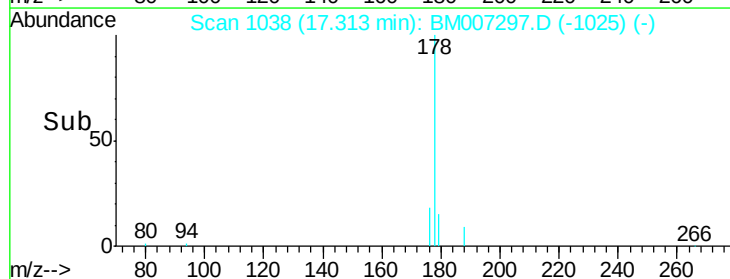
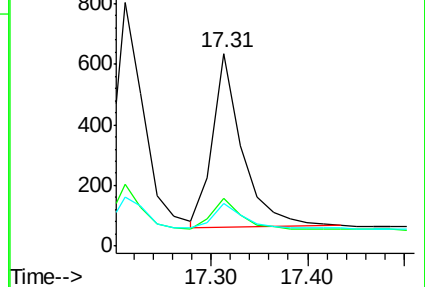
179 22.4 12.9 19.3#

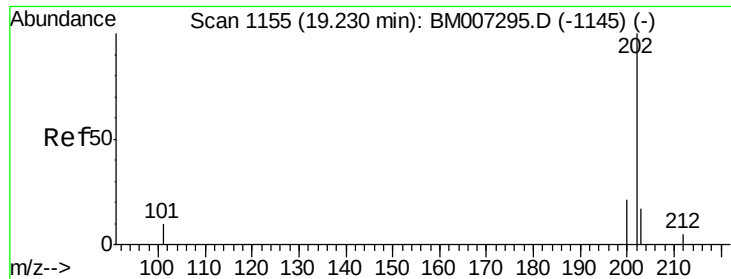


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.06 ng/ul

RT: 19.23 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

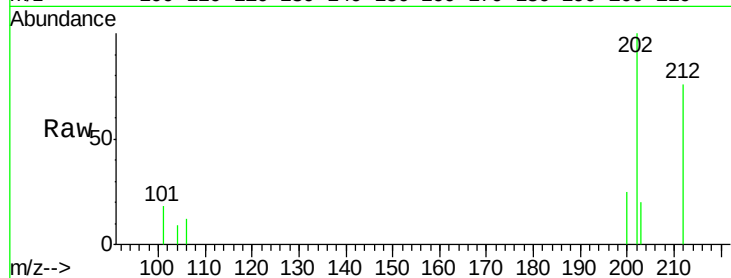
Tgt Ion:202 Resp: 2034

Ion Ratio Lower Upper

202 100

101 18.1 0.0 29.6

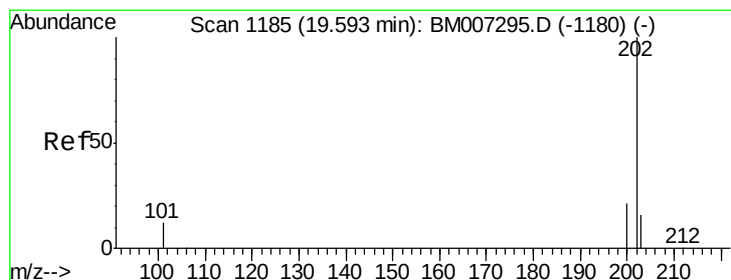
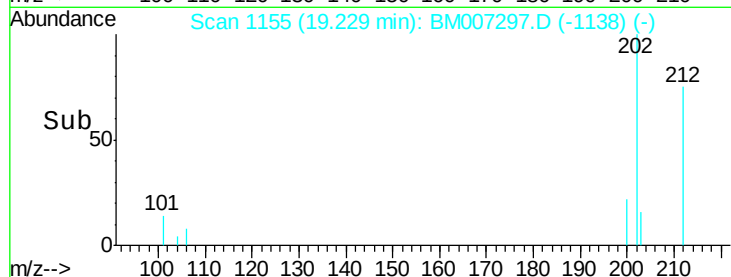
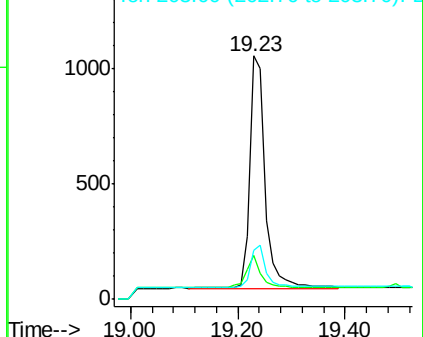
203 20.0 0.0 36.3



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: BM007297.D

Acq: 26 Aug 2016 16:40

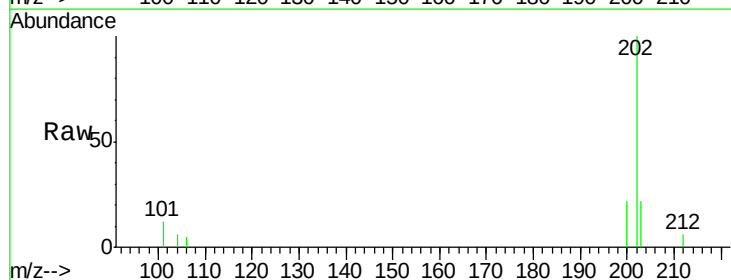
Tgt Ion:202 Resp: 2056

Ion Ratio Lower Upper

202 100

200 21.7 17.8 26.8

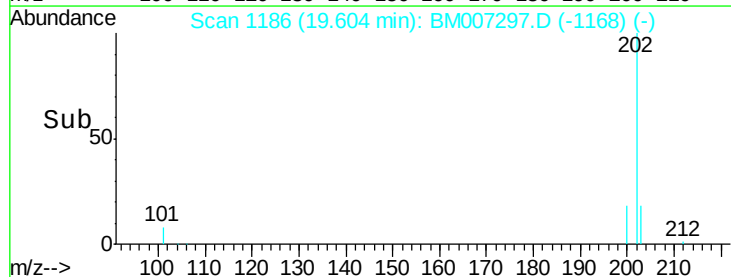
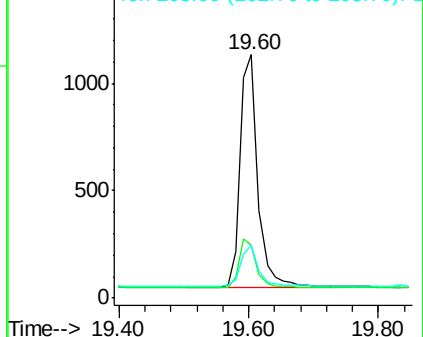
203 21.8 12.8 19.2#

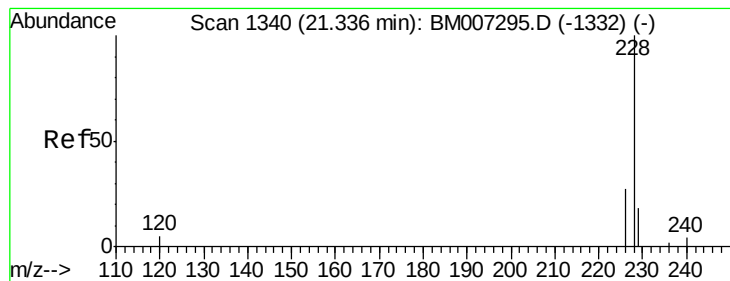


Abundance Ion 202.00 (201.70 to 202.70): E

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: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

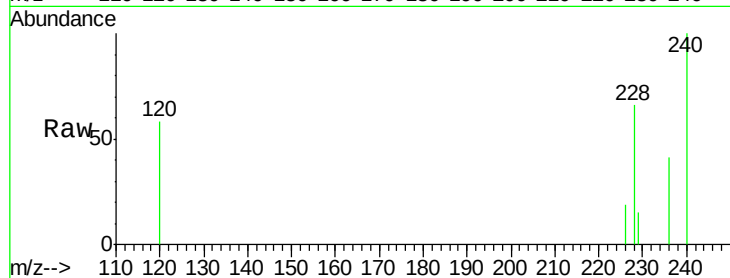
Tgt Ion:228 Resp: 1723

Ion Ratio Lower Upper

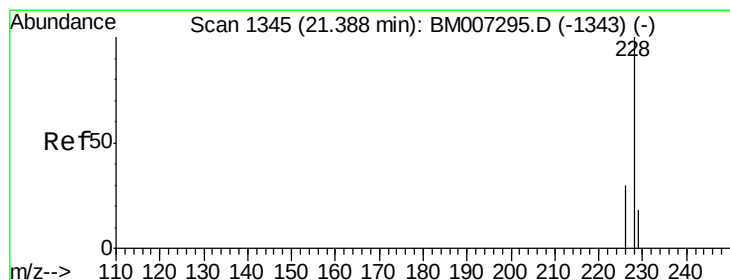
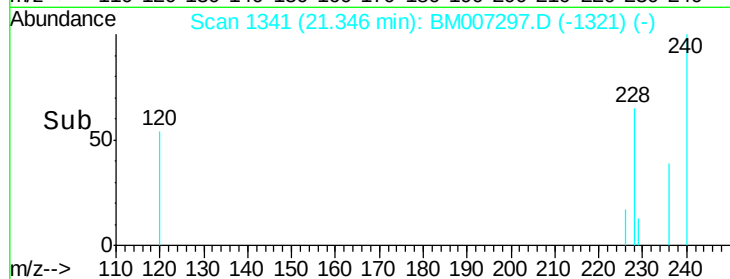
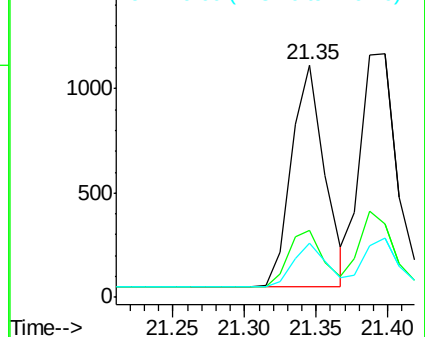
228 100

226 28.9 18.8 28.2#

229 23.4 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: 21.40 min Scan# 1346

Delta R.T. 0.01 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

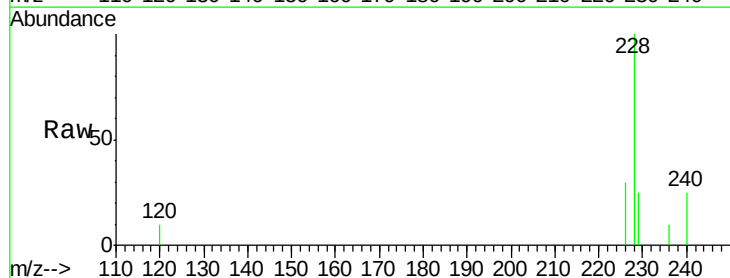
Tgt Ion:228 Resp: 2081

Ion Ratio Lower Upper

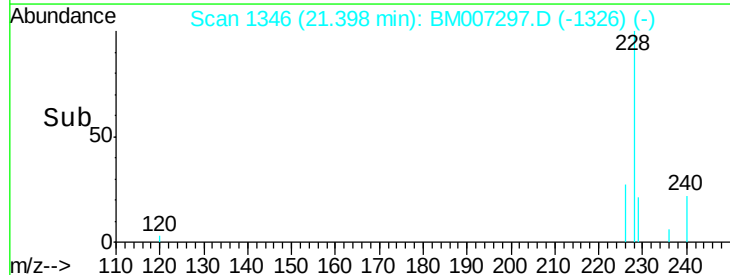
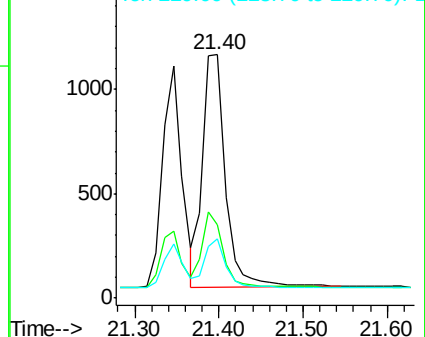
228 100

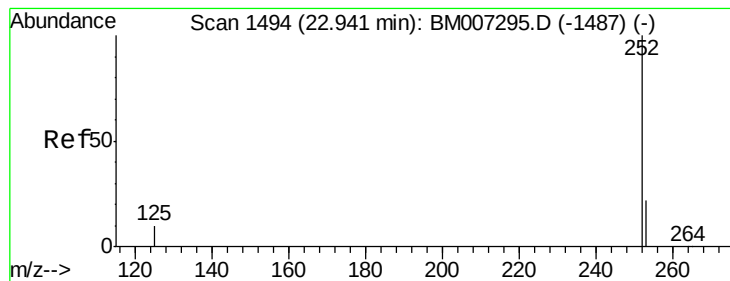
226 30.3 21.2 31.8

229 24.5 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/ul

RT: 22.94 min Scan# 1494

Delta R.T. -0.00 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

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MDL-02-S

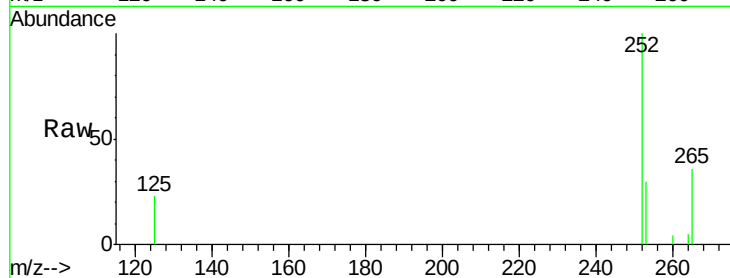
Tgt Ion:252 Resp: 2297

Ion Ratio Lower Upper

252 100

253 29.9 0.0 45.4

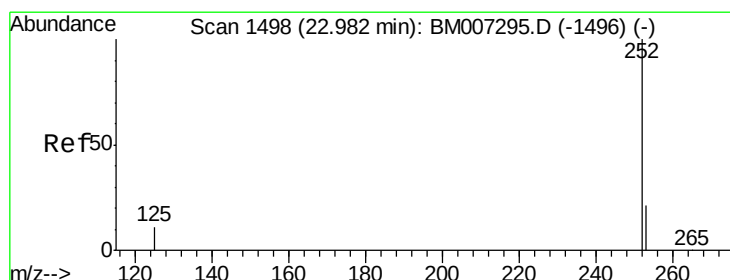
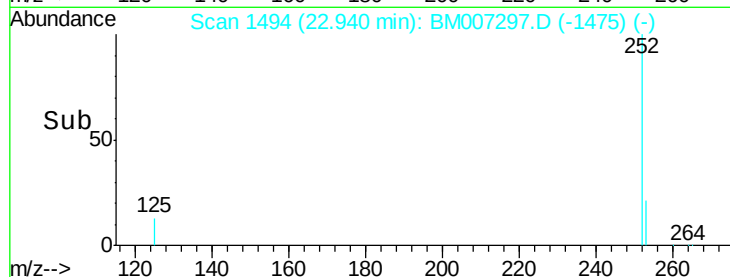
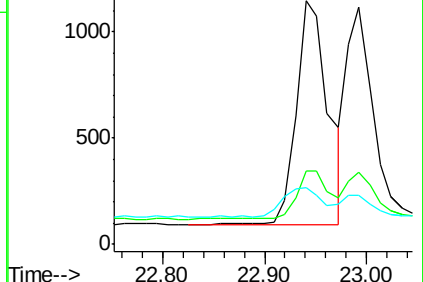
125 23.3 0.0 28.8



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/ul

RT: 22.99 min Scan# 1499

Delta R.T. 0.01 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

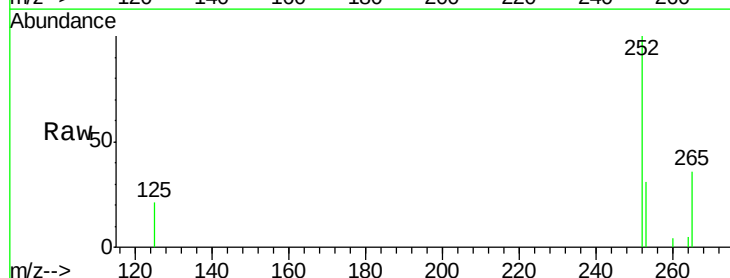
Tgt Ion:252 Resp: 1942

Ion Ratio Lower Upper

252 100

253 30.7 19.8 29.8#

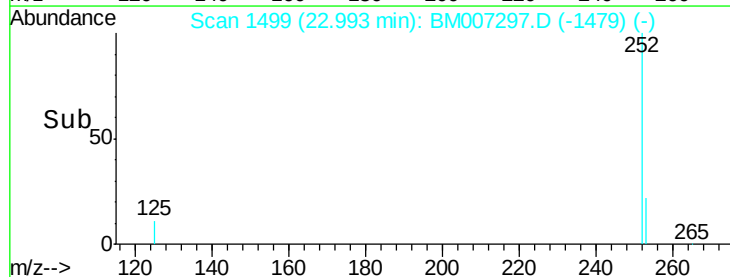
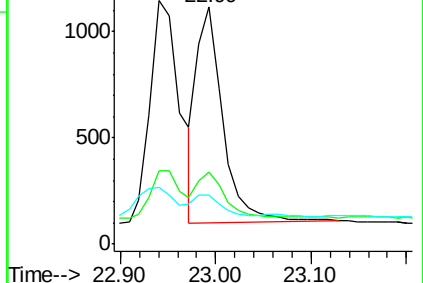
125 20.9 10.4 15.6#

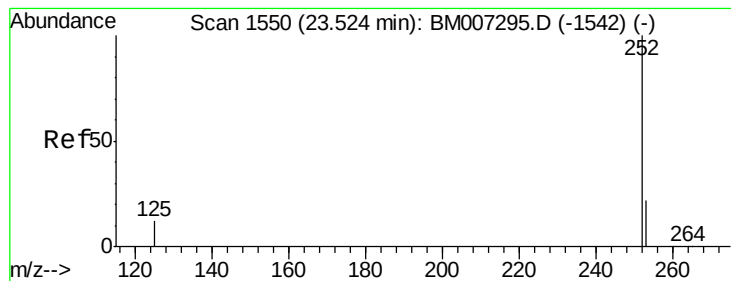


Abundance Ion 252.00 (251.70 to 252.70): E

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: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

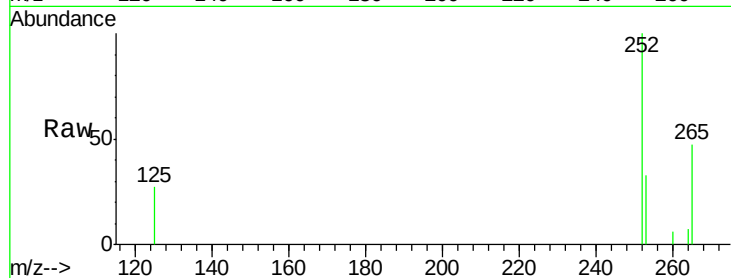
Tgt Ion: 252 Resp: 2080

Ion Ratio Lower Upper

252 100

253 33.0 19.4 29.2#

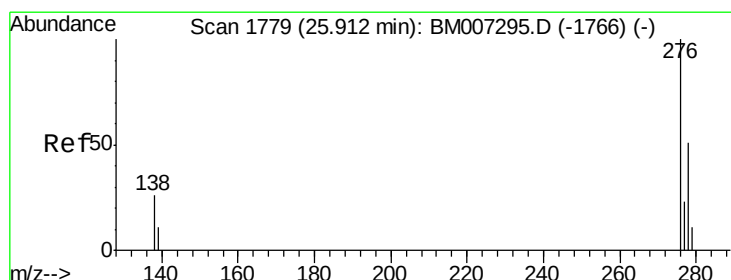
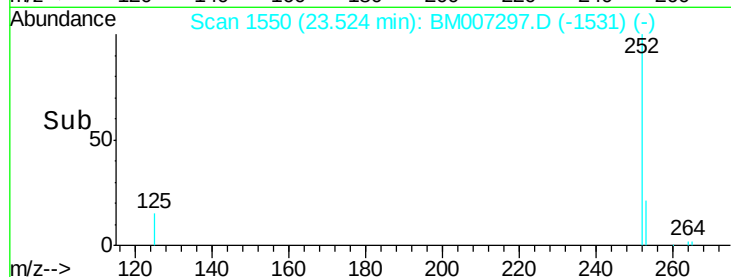
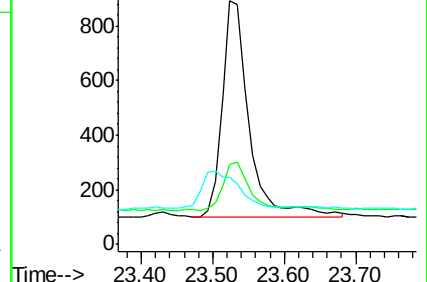
125 27.4 12.7 19.1#



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: BM007297.D

Acq: 26 Aug 2016 16:40

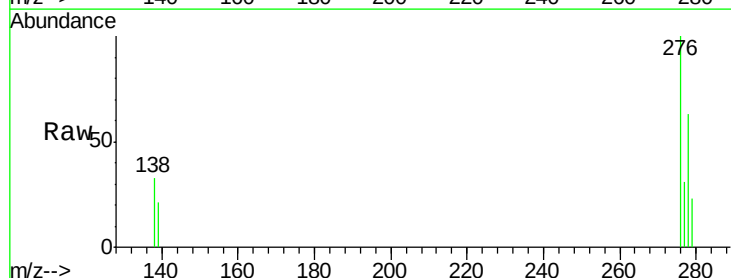
Tgt Ion: 276 Resp: 2296

Ion Ratio Lower Upper

276 100

138 27.3 16.3 24.5#

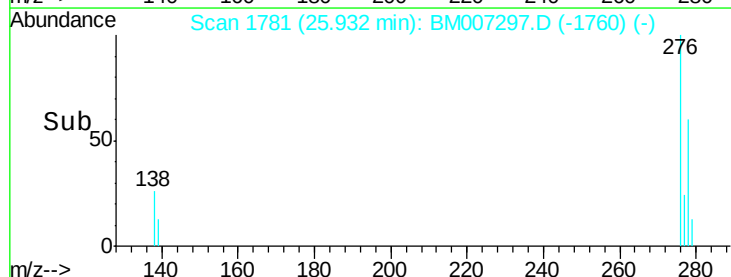
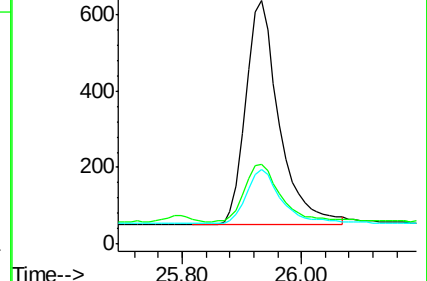
277 25.5 19.8 29.8

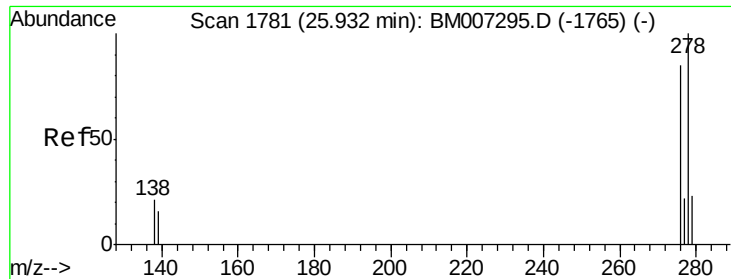


Abundance Ion 276.00 (275.70 to 276.70): E

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: 25.94 min Scan# 1782

Delta R.T. 0.01 min

Lab File: BM007297.D

Acq: 26 Aug 2016 16:40

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

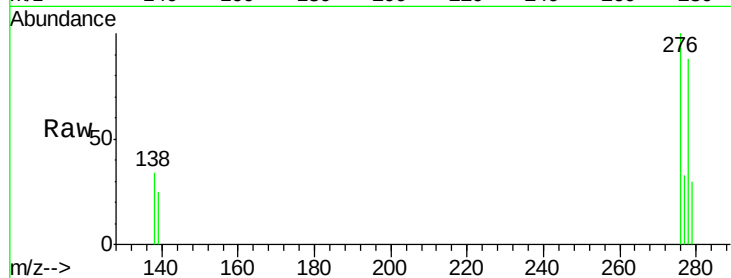
Tgt Ion: 278 Resp: 1759

Ion Ratio Lower Upper

278 100

139 28.3 16.4 24.6#

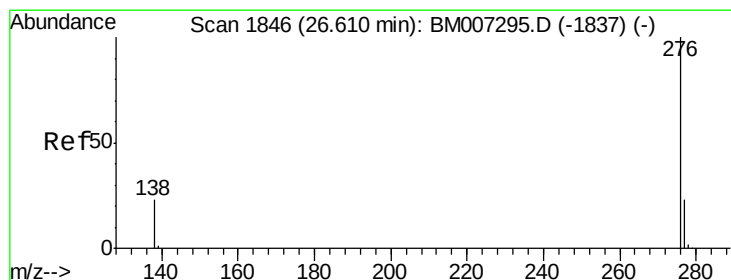
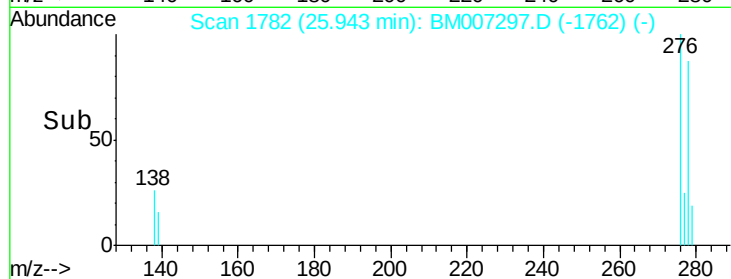
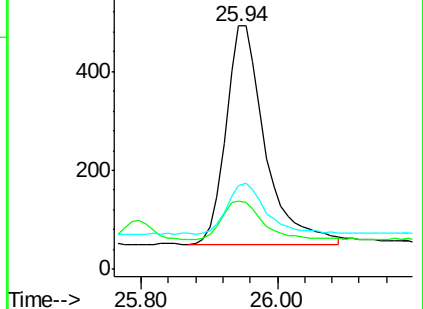
279 34.6 20.2 30.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#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: BM007297.D

Acq: 26 Aug 2016 16:40

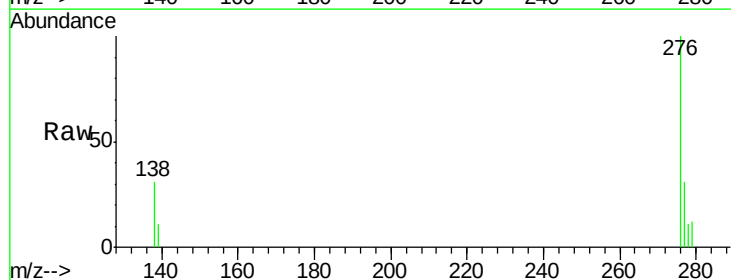
Tgt Ion: 276 Resp: 2077

Ion Ratio Lower Upper

276 100

277 31.1 18.9 28.3#

138 31.5 22.5 33.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

