

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121817\
 Data File : BM013497.D
 Acq On : 18 Dec 2017 14:13
 Operator : SJ/JU
 Sample : I6776-08
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 19 00:42:52 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 19 00:41:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	226268	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	978316	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	556068	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.07	188	1142667	20.00	ng/ul	0.00
75) Chrysene-d12	21.27	240	862665	20.00	ng/ul	0.01
83) Perylene-d12	23.50	264	777390	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	18413	4.03	ng/uL	0.00
5) Phenol-d5	6.85	99	482019	24.62	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	262941	23.55	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	386078	25.24	ng/ul	0.00
13) 4-Methylphenol-d8	8.38	113	395281	23.63	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	198327	25.56	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	223672	26.94	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	419827	24.54	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	248519	15.80	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	1241116	25.08	ng/ul	0.00
46) Acenaphthylene-d8	14.01	160	1592870	26.09	ng/ul	0.00
51) 4-Nitrophenol-d4	14.54	143	186448	21.69	ng/ul	0.00
57) Fluorene-d10	15.32	176	1068557	25.11	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.45	200	142131	19.77	ng/ul	0.00
70) Anthracene-d10	17.17	188	1479466	25.85	ng/ul	0.00
76) Pyrene-d10	19.47	212	1349085	31.39	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.36	264	974615	24.61	ng/ul	0.02

Target Compounds

					Ovalue	
6) Phenol	6.88	94	89428	4.621	ng/ul#	86
28) Naphthalene	10.50	128	281019	5.583	ng/ul	98
30) 4-Chloroaniline	10.50	127	38016	2.497	ng/ul#	22
34) 2-Methylnaphthalene	12.12	142	87709	2.318	ng/ul	85
44) Dimethylphthalate	13.78	163	238725	5.044	ng/ul	98
47) Acenaphthylene	14.04	152	936636	16.575	ng/ul	99
49) Acenaphthene	14.38	153	235475	6.117	ng/ul	97
53) Dibenzofuran	14.72	168	245081	4.313	ng/ul	98
55) 2,3,4,6-Tetrachlorophenol	14.95	232	12184	1.000	ng/ul#	78
58) Fluorene	15.37	166	144851	3.081	ng/ul#	95
68) Pentachlorophenol	16.73	266	533220	62.237	ng/ul	99
69) Phenanthrene	17.11	178	2177061	33.536	ng/ul	99
71) Anthracene	17.20	178	1628217	24.538	ng/ul	98
72) Carbazole	17.47	167	381702	6.688	ng/ul	99
74) Fluoranthene	19.14	202	6042011	75.948	ng/ul#	93
77) Pyrene	19.50	202	6692439	127.696	ng/ul#	92
80) Benzo(a)anthracene	21.25	228	3040214	55.545	ng/ul	94
82) Chrysene	21.30	228	2234971	44.013	ng/ul	97
85) Benzo(b)fluoranthene	22.84	252	9036588	172.437	ng/ul#	98
86) Benzo(k)fluoranthene	22.84	252	9036588	183.236	ng/ul#	96
88) Benzo(a)pyrene	23.41	252	4081966	86.711	ng/ul#	98
89) Indeno(1,2,3-cd)pyrene	25.75	276	3611241	77.313	ng/ul#	96
90) Dibenz(a,h)anthracene	25.74	278	974616	24.505	ng/ul#	91

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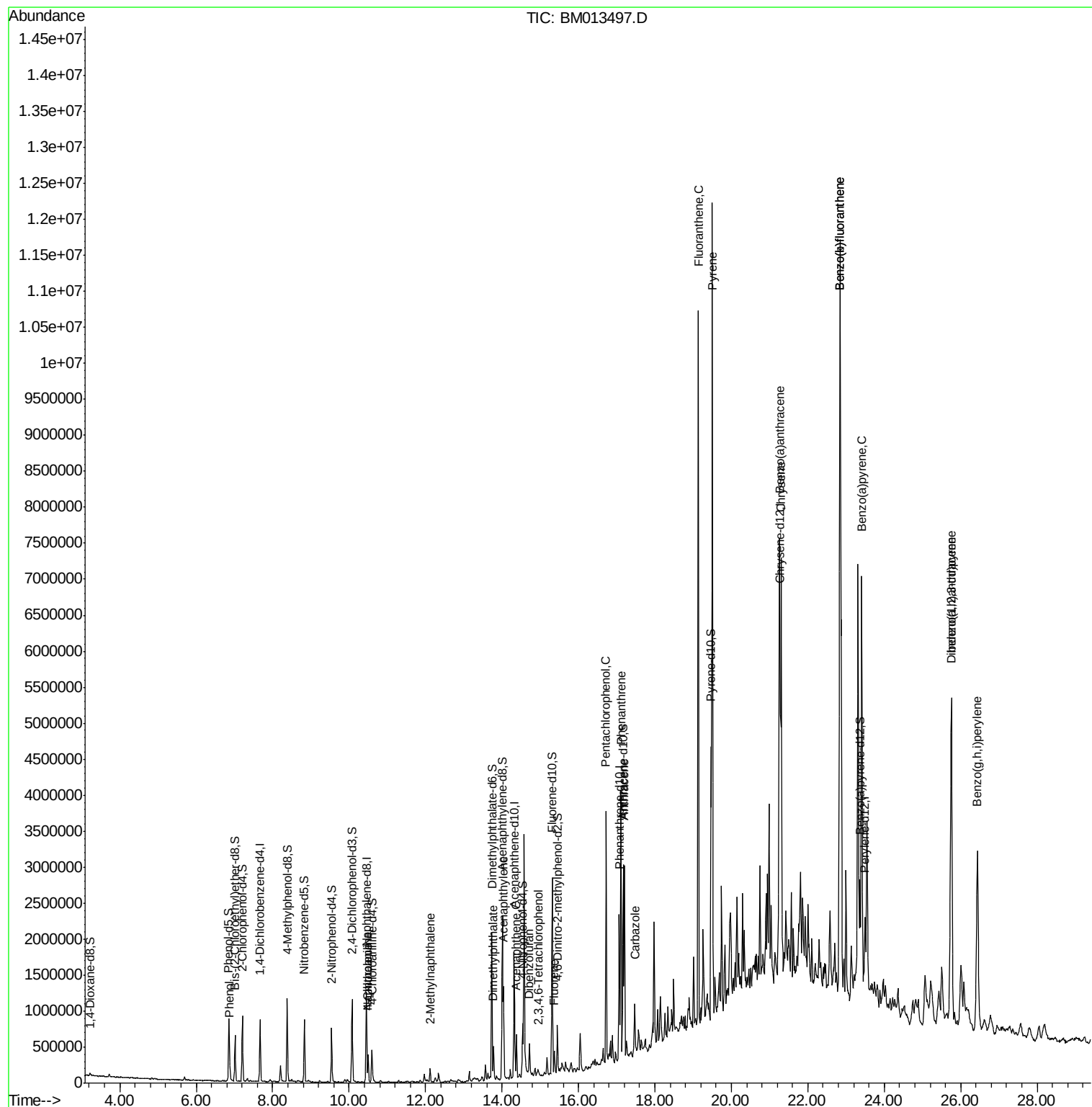
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	26.44	276	3330212	90.387	ng/ul#	95

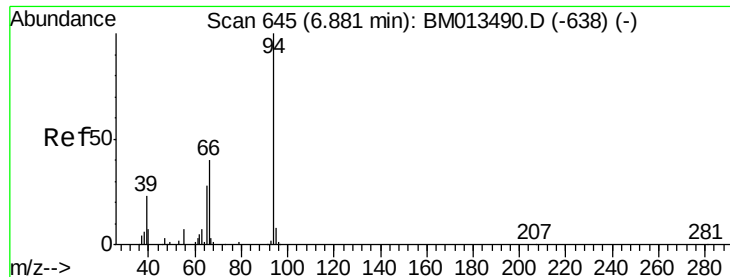
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 4.621 ng/ul

RT: 6.88 min Scan# 645

Delta R.T. 0.00 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

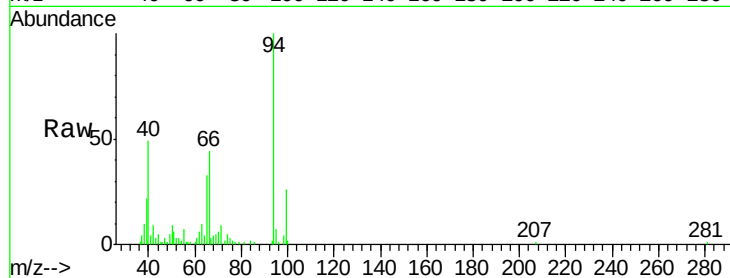
Tot Ion: 94 Resp: 89428

Ion Ratio Lower Upper

94 100

65 32.6 28.2 42.4

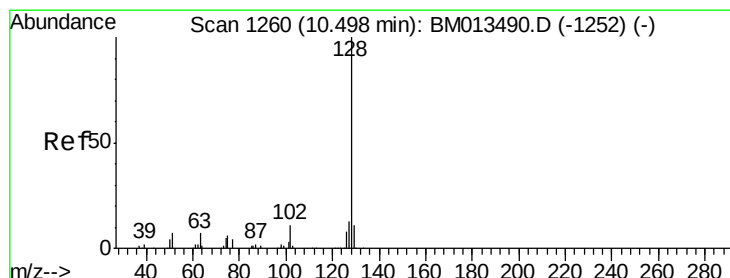
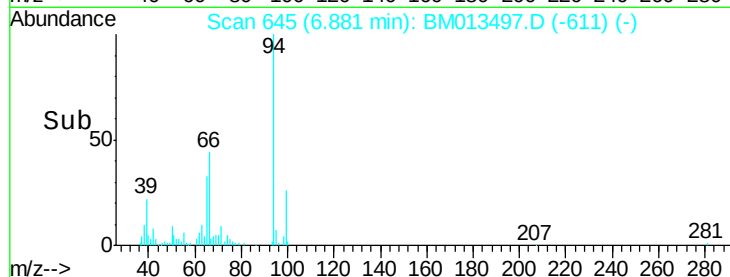
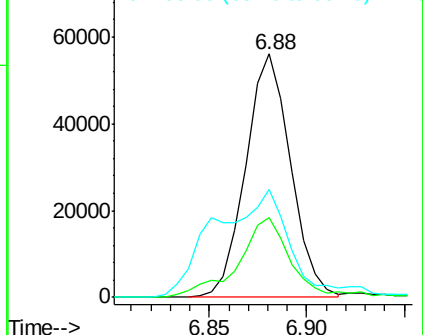
66 44.4 47.2 70.8#



Abundance Ion 94.00 (93.70 to 94.70): BM013497.D (-611) (-)

Ion 65.00 (64.70 to 65.70): BM013497.D (-611) (-)

Ion 66.00 (65.70 to 66.70): BM013497.D (-611) (-)



#28

Naphthalene

Concen: 5.583 ng/ul

RT: 10.50 min Scan# 1261

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

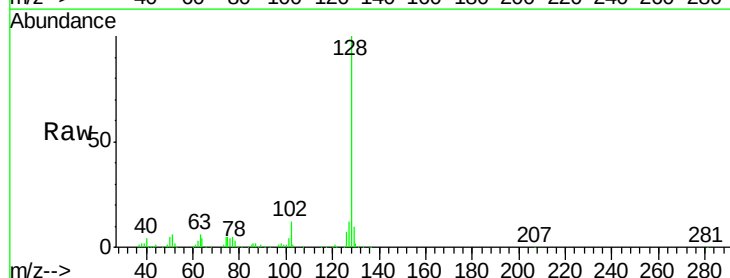
Tgt Ion: 128 Resp: 281019

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

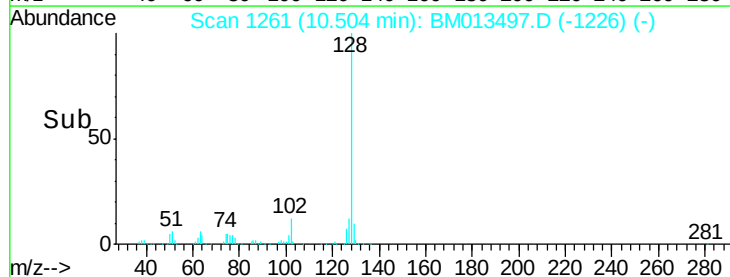
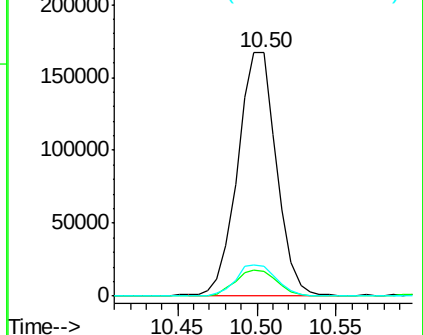
127 12.4 10.6 16.0

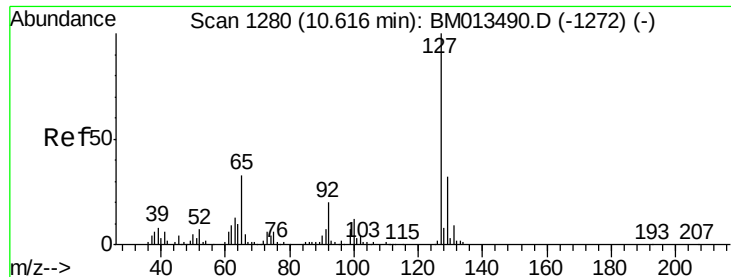


Abundance Ion 128.00 (127.70 to 128.70): BM013497.D (-1226) (-)

Ion 129.00 (128.70 to 129.70): BM013497.D (-1226) (-)

Ion 127.00 (126.70 to 127.70): BM013497.D (-1226) (-)

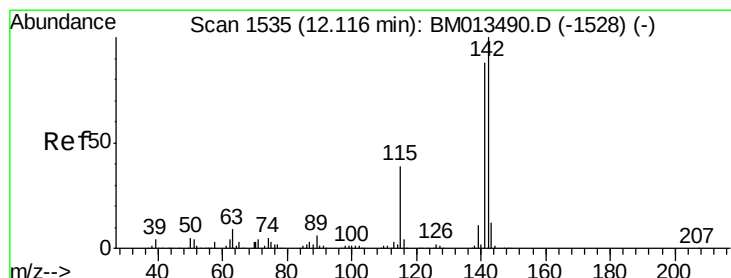
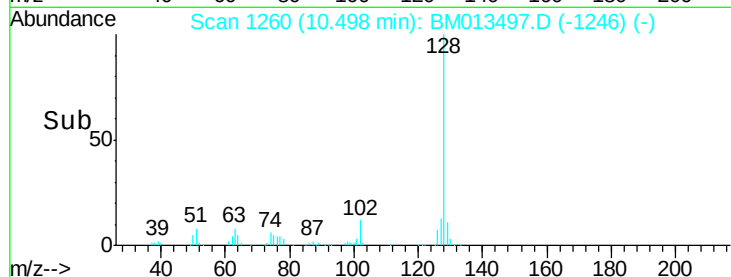
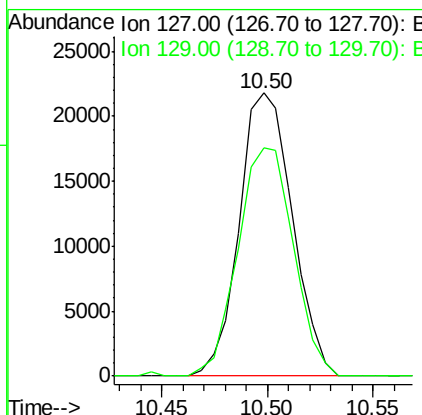
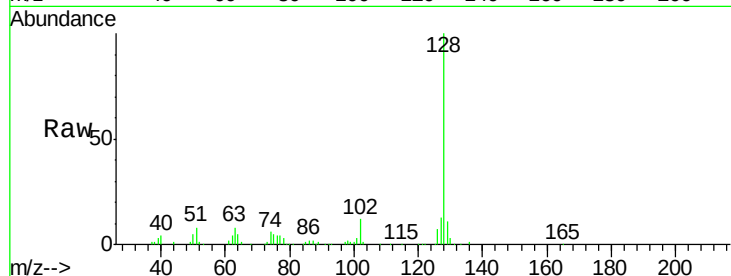




#30
4-Chloroaniline
Concen: 2.497 ng/ul
RT: 10.50 min Scan# 1260
Delta R.T. -0.12 min
Lab File: BM013497.D
Acq: 18 Dec 2017 14:13

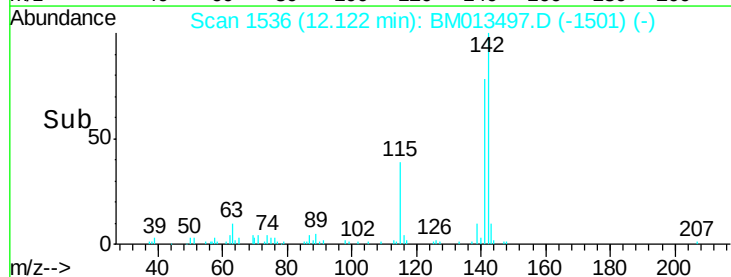
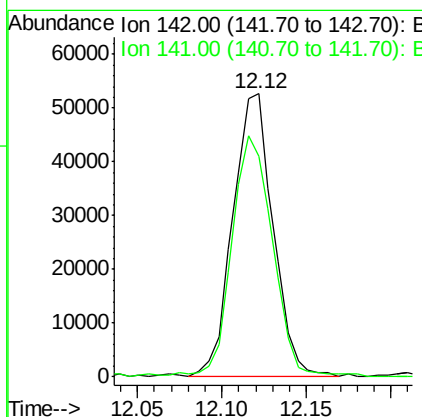
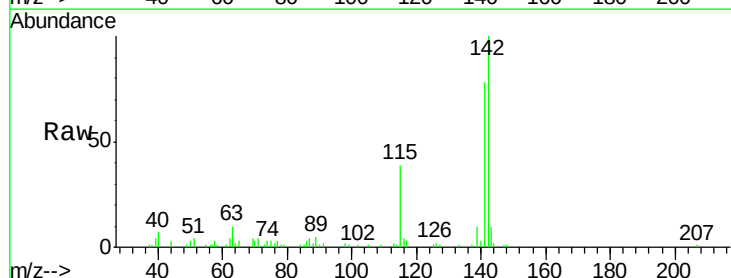
Instrument :
BNA_M
ClientSampled :

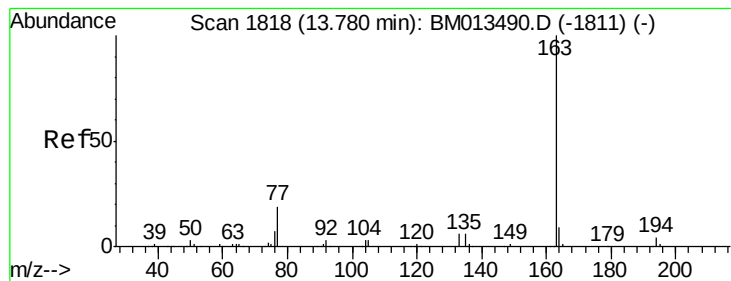
Tot Ion:127 Resp: 38016
Ion Ratio Lower Upper
127 100
129 80.9 28.4 42.6#



#34
2-Methylnaphthalene
Concen: 2.318 ng/ul
RT: 12.12 min Scan# 1536
Delta R.T. 0.01 min
Lab File: BM013497.D
Acq: 18 Dec 2017 14:13

Tgt Ion:142 Resp: 87709
Ion Ratio Lower Upper
142 100
141 78.0 74.1 111.1





#44

Dimethylphthalate

Concen: 5.044 ng/ul

RT: 13.78 min Scan# 1818

Delta R.T. 0.00 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

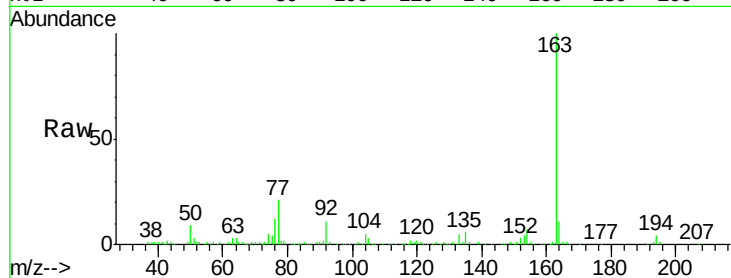
Tot Ion:163 Resp: 238725

Ion Ratio Lower Upper

163 100

194 3.7 3.5 5.3

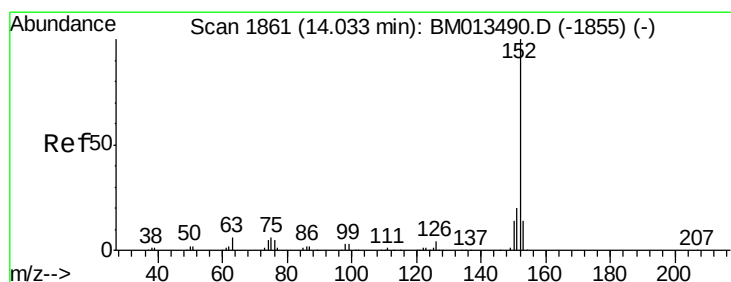
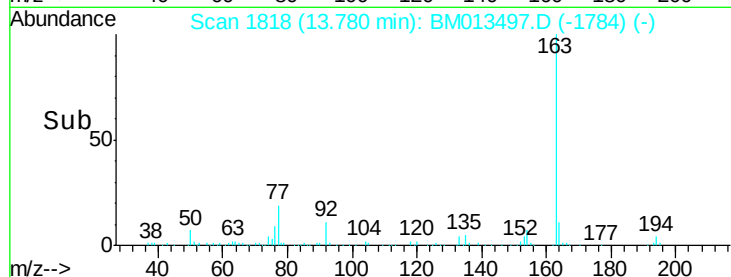
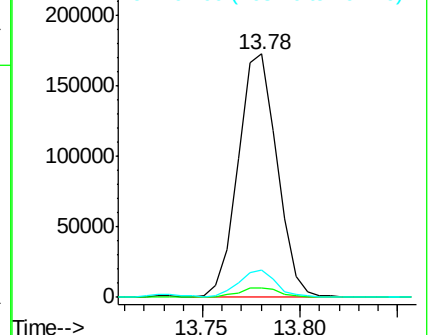
164 11.2 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 16.575 ng/ul

RT: 14.04 min Scan# 1862

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

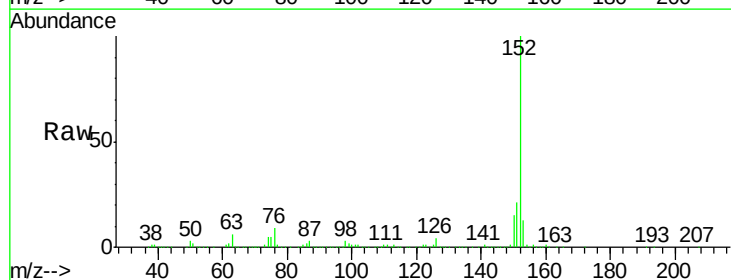
Tgt Ion:152 Resp: 936636

Ion Ratio Lower Upper

152 100

151 20.7 16.3 24.5

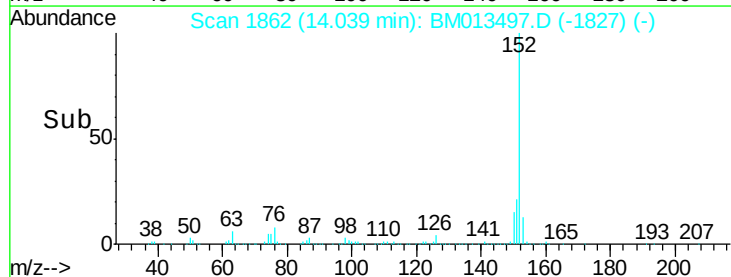
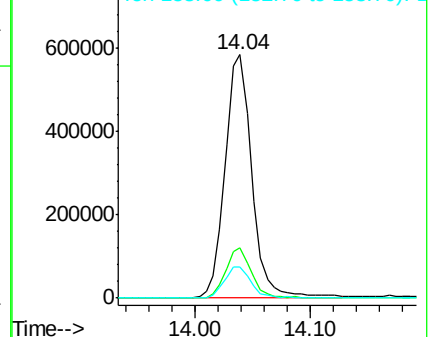
153 13.0 10.2 15.4

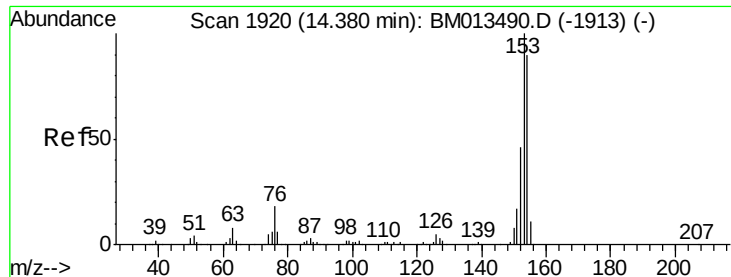


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 6.117 ng/ul

RT: 14.38 min Scan# 1920

Delta R.T. -0.00 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

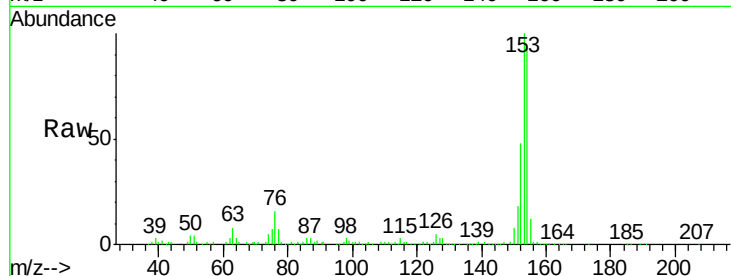
Tot Ion:153 Resp: 235475

Ion Ratio Lower Upper

153 100

152 47.5 37.6 56.4

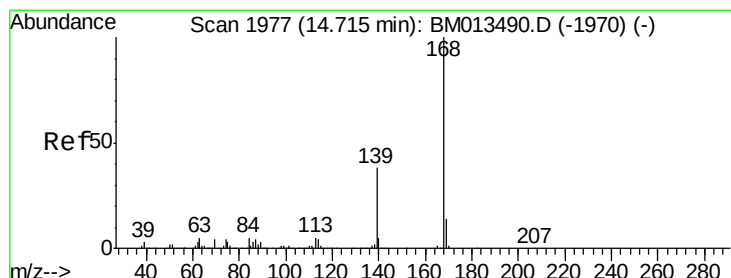
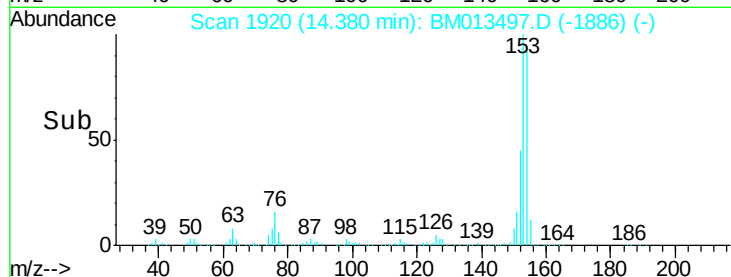
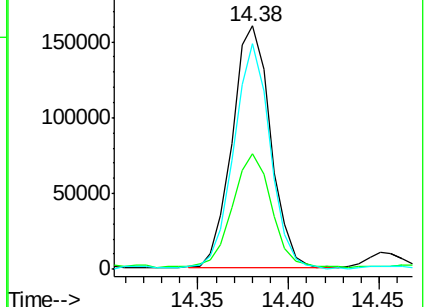
154 92.5 70.4 105.6



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



#53

Dibenzofuran

Concen: 4.313 ng/ul

RT: 14.72 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BM013497.D

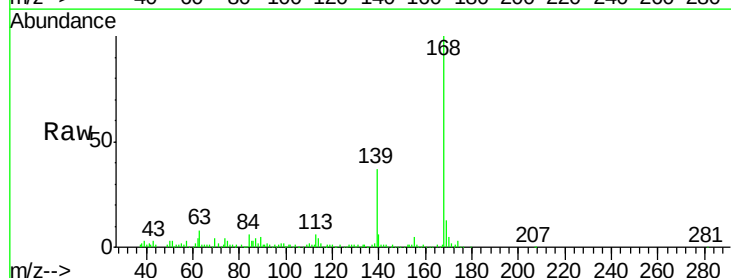
Acq: 18 Dec 2017 14:13

Tgt Ion:168 Resp: 245081

Ion Ratio Lower Upper

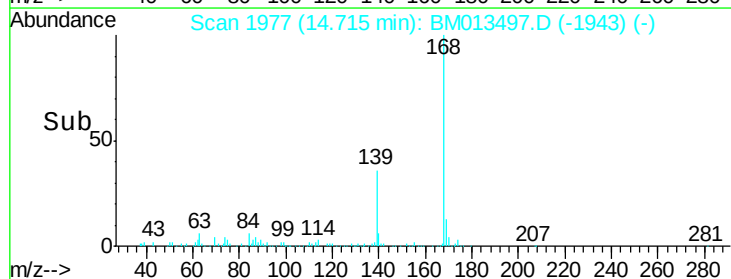
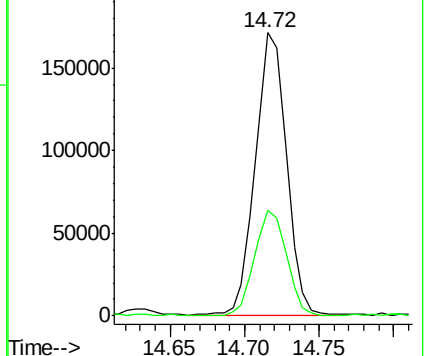
168 100

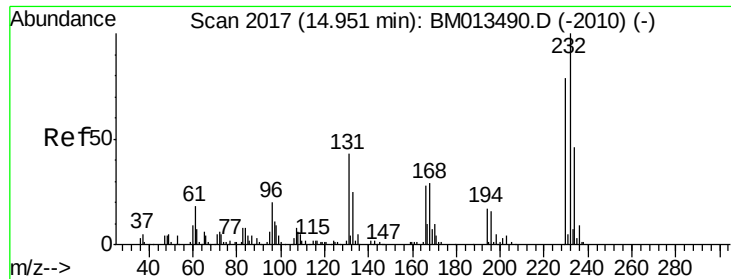
139 37.0 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#55

2,3,4,6-Tetrachlorophenol

Concen: 1.000 ng/ul

RT: 14.95 min Scan# 2017

Delta R.T. -0.00 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampled :

Tot Ion:232 Resp: 12184

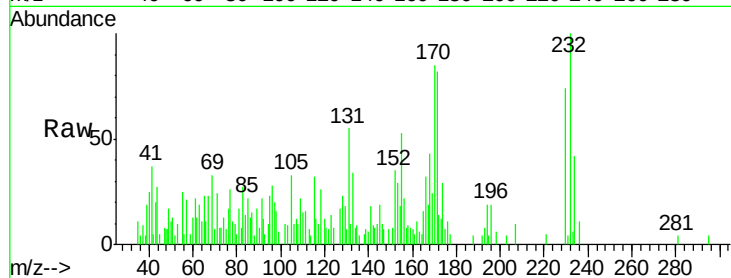
Ion Ratio Lower Upper

232 100

131 55.2 29.0 43.4#

130 6.6 2.0 3.0#

166 31.7 21.4 32.2

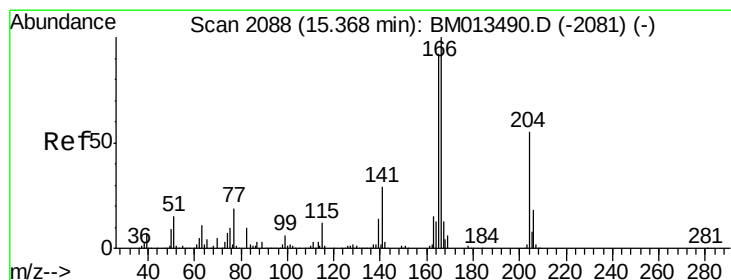
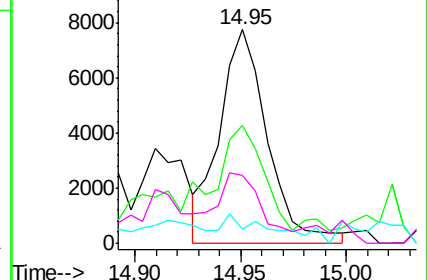
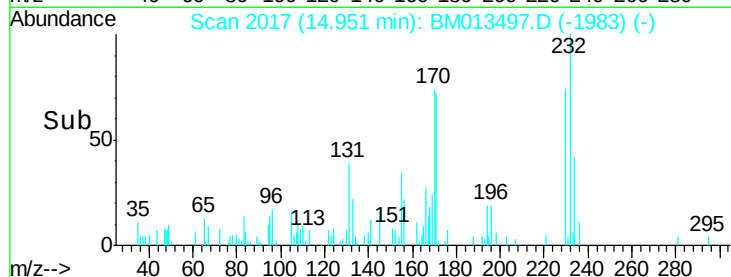


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#58

Fluorene

Concen: 3.081 ng/ul

RT: 15.37 min Scan# 2088

Delta R.T. 0.00 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

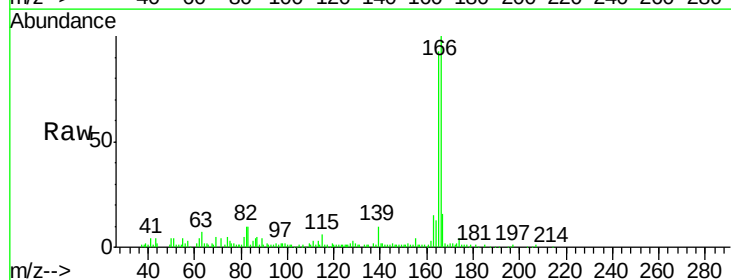
Tgt Ion:166 Resp: 144851

Ion Ratio Lower Upper

166 100

165 93.1 77.9 116.9

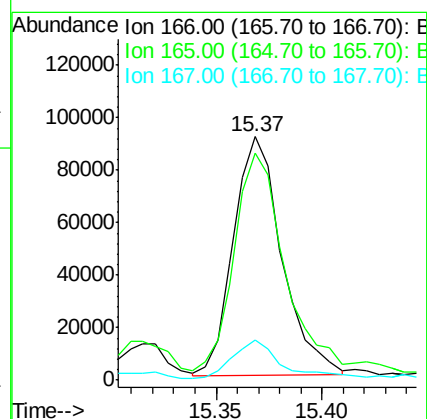
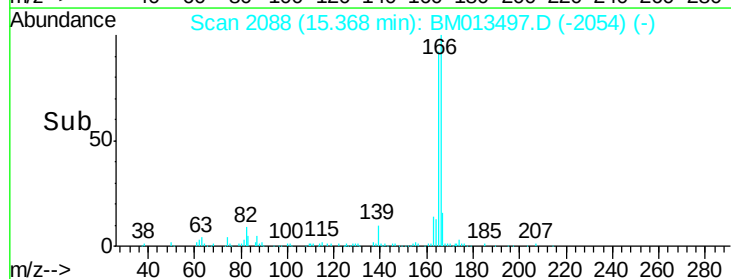
167 16.3 10.6 16.0#

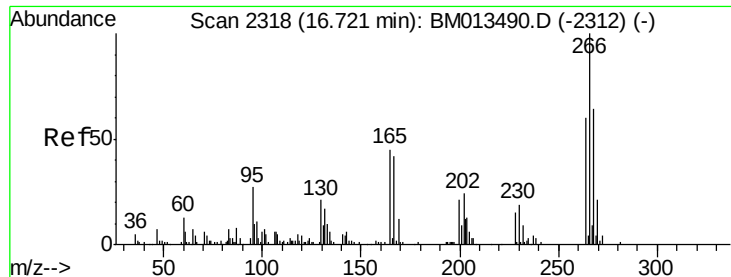


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

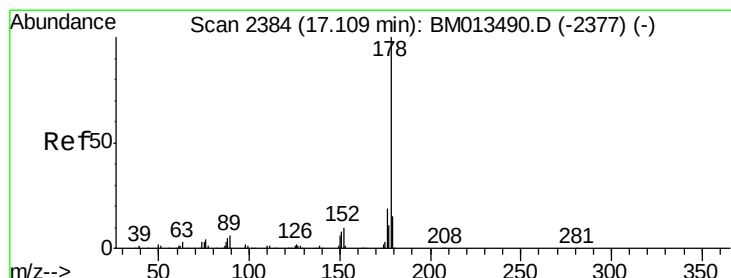
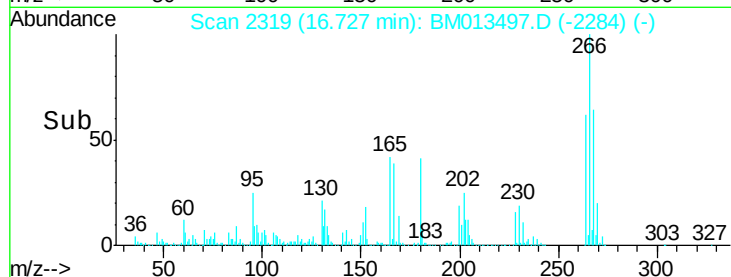
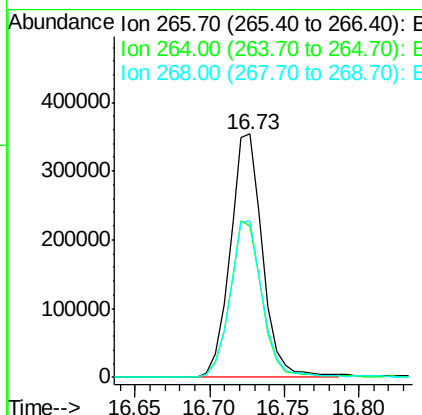
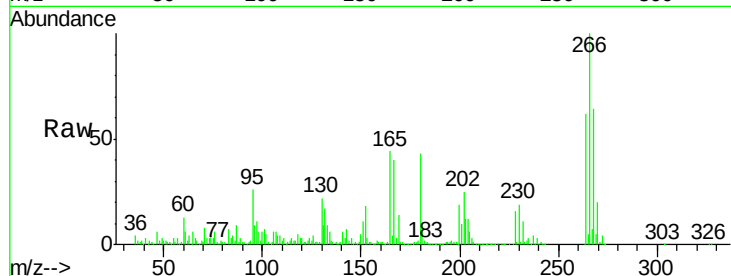




#68
 Pentachlorophenol
 Concen: 62.237 ng/ul
 RT: 16.73 min Scan# 2319
 Delta R.T. 0.01 min
 Lab File: BM013497.D
 Acq: 18 Dec 2017 14:13

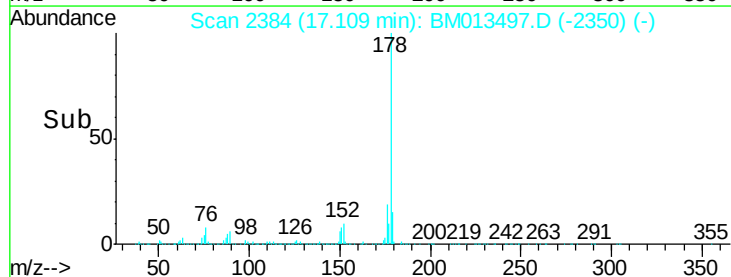
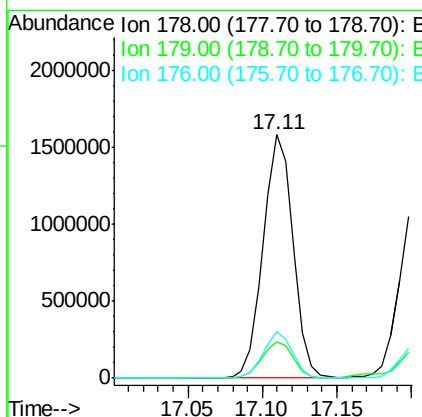
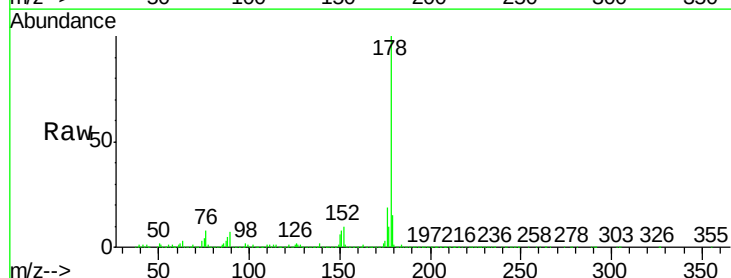
Instrument :
 BNA_M
 ClientSampleId :

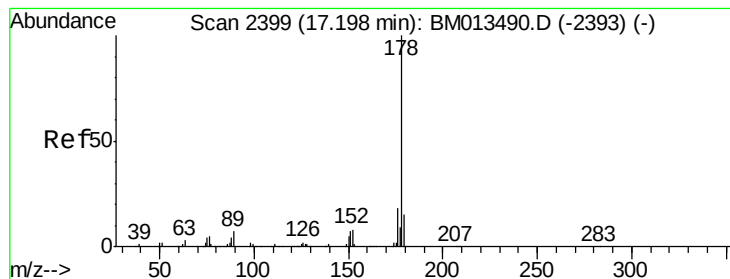
Tot Ion	Ratio	Lower	Upper
266	100		
264	62.3	49.3	73.9
268	64.5	52.6	78.8



#69
 Phenanthrene
 Concen: 33.536 ng/ul
 RT: 17.11 min Scan# 2384
 Delta R.T. -0.00 min
 Lab File: BM013497.D
 Acq: 18 Dec 2017 14:13

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.6	19.0
176	19.0	14.9	22.3





#71

Anthracene

Concen: 24.538 ng/ul

RT: 17.20 min Scan# 2400

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

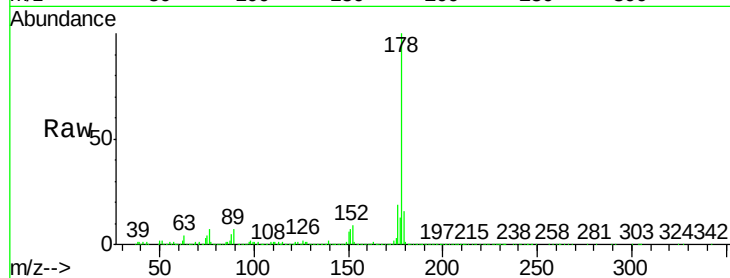
Instrument :

BNA_M

ClientSampleId :

Tot Ion:178 Resp: 1628217

Ion	Ratio	Lower	Upper
178	100		
179	15.8	11.7	17.5
176	19.0	14.6	21.8

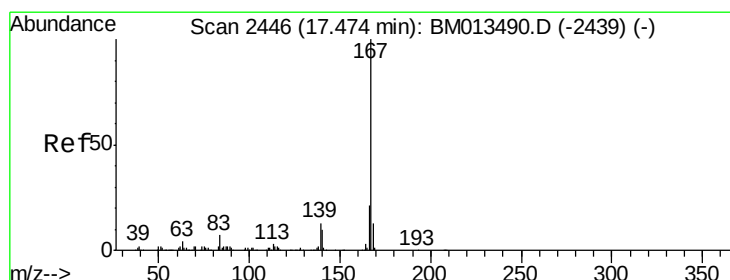
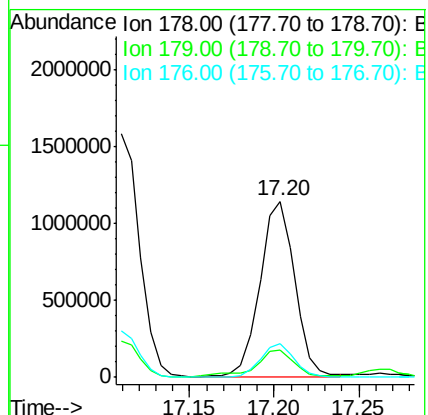
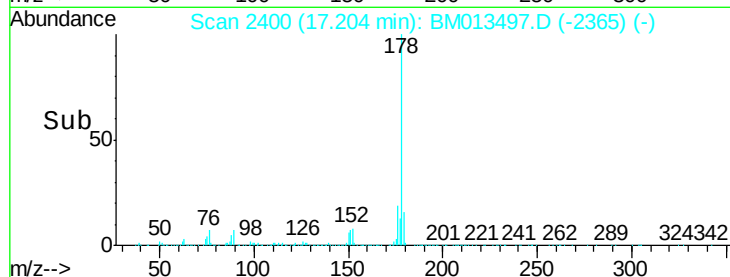


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 6.688 ng/ul

RT: 17.47 min Scan# 2446

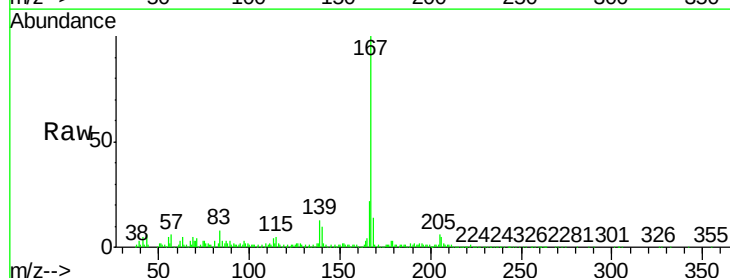
Delta R.T. -0.00 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Tgt Ion:167 Resp: 381702

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.1	25.7
139	13.3	10.0	15.0

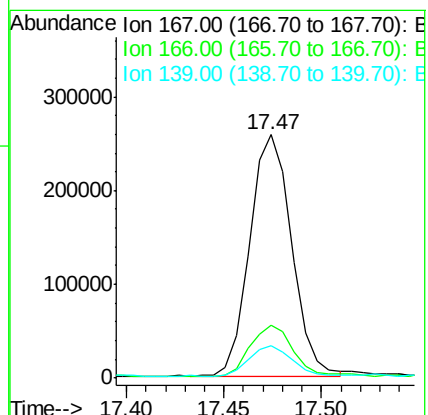
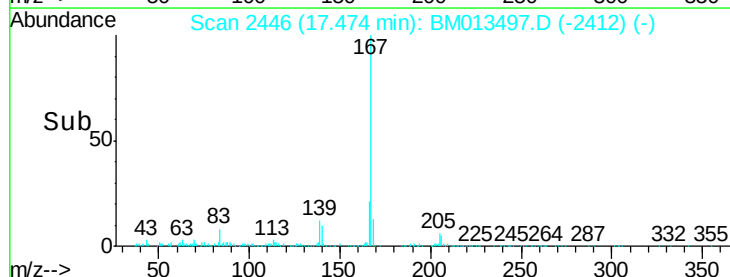


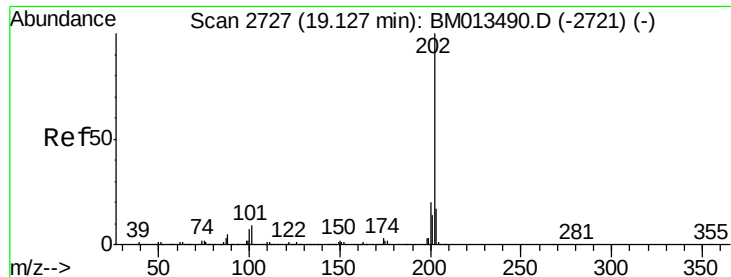
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 75.948 ng/ul

RT: 19.14 min Scan# 2729

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

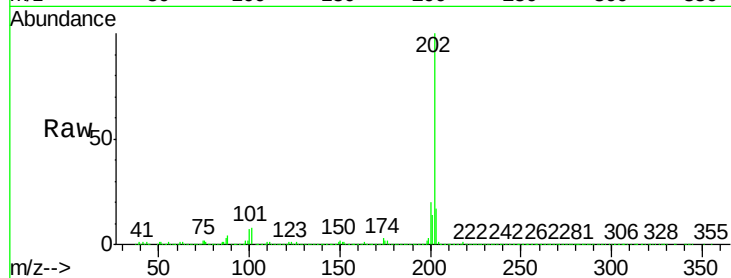
Tot Ion:202 Resp: 6042011

Ion Ratio Lower Upper

202 100

101 8.0 4.6 7.0#

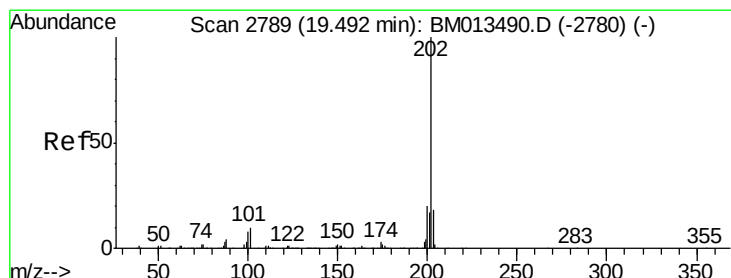
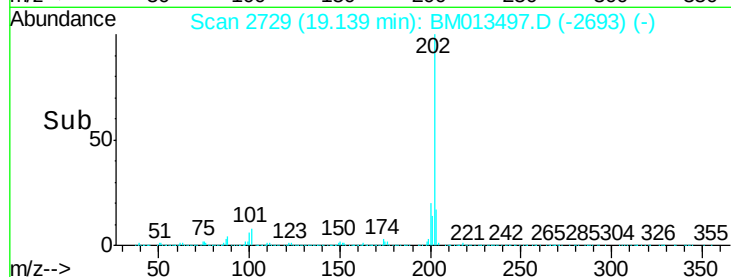
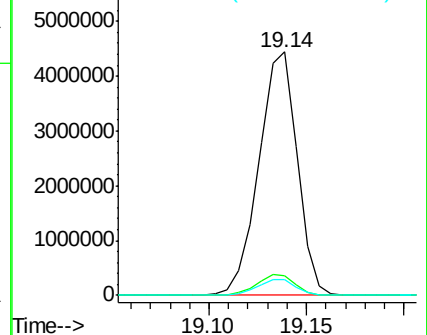
100 6.5 3.4 5.2#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 127.696 ng/ul

RT: 19.50 min Scan# 2791

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

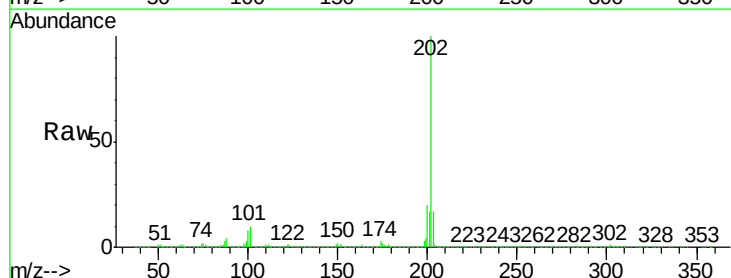
Tgt Ion:202 Resp: 6692439

Ion Ratio Lower Upper

202 100

101 9.7 5.1 7.7#

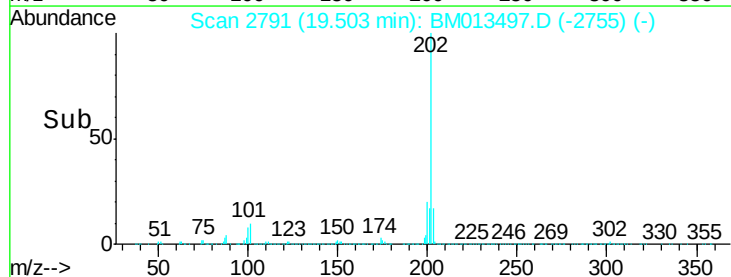
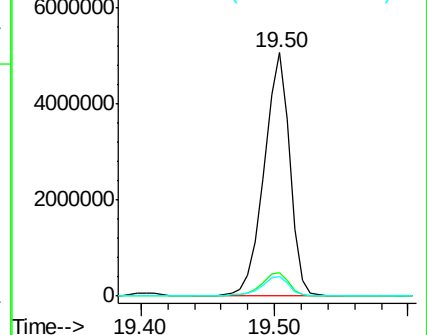
100 8.0 4.9 7.3#

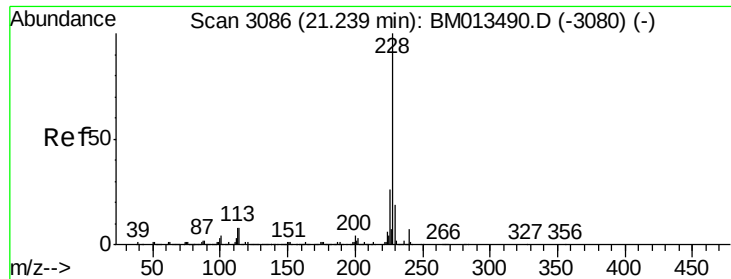


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 55.545 ng/ul

RT: 21.25 min Scan# 3088

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

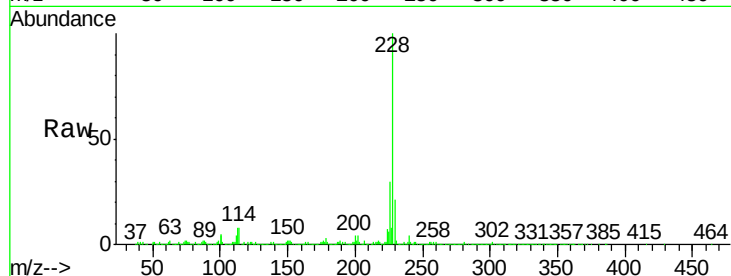
Tot Ion:228 Resp: 3040214

Ion Ratio Lower Upper

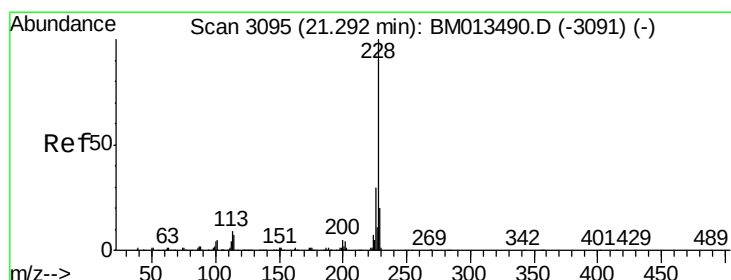
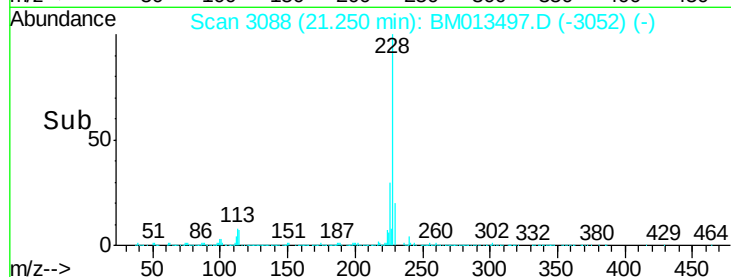
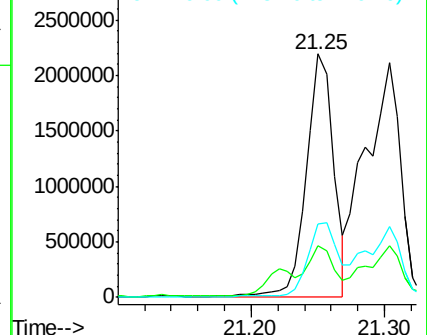
228 100

229 21.2 15.4 23.0

226 30.1 21.4 32.0



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



#82

Chrysene

Concen: 44.013 ng/ul

RT: 21.30 min Scan# 3097

Delta R.T. 0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

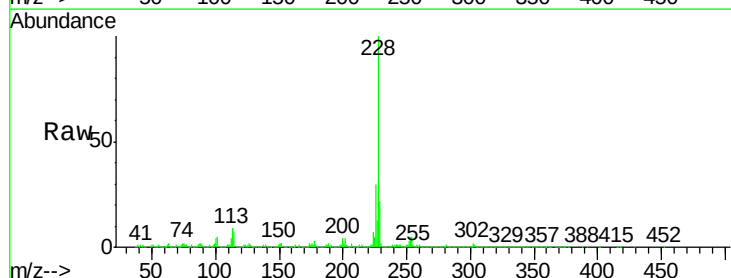
Tgt Ion:228 Resp: 2234971

Ion Ratio Lower Upper

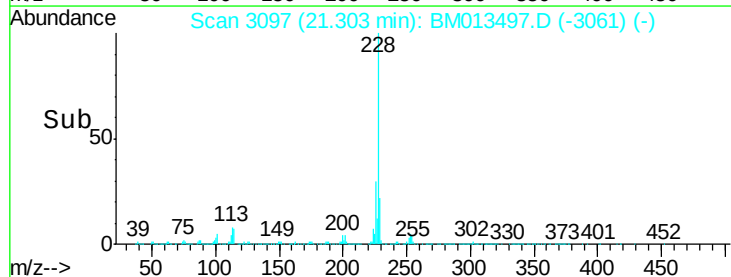
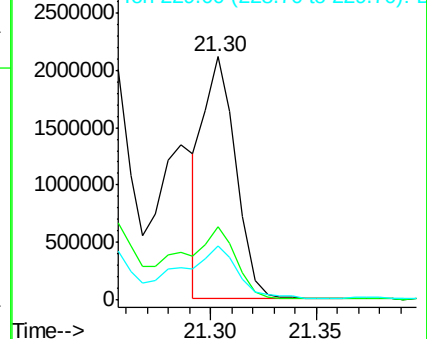
228 100

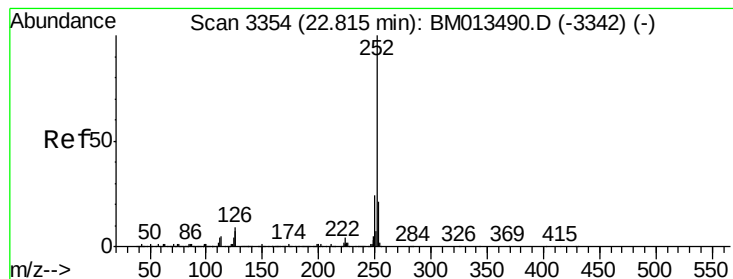
226 30.2 23.4 35.2

229 22.1 15.5 23.3



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





#85

Benzo(b)fluoranthene

Concen: 172.437 ng/ul

RT: 22.84 min Scan# 3359

Delta R.T. 0.03 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

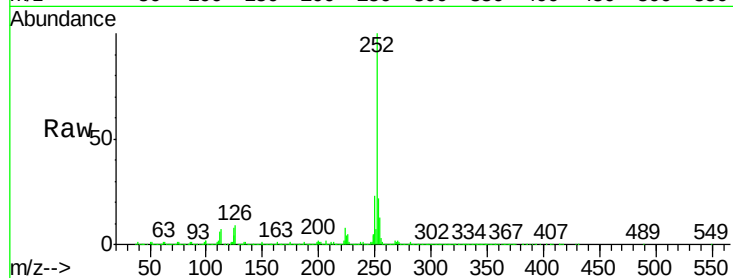
Tot Ion:252 Resp: 9036588

Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

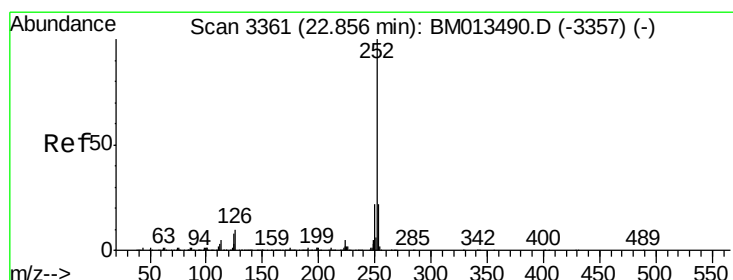
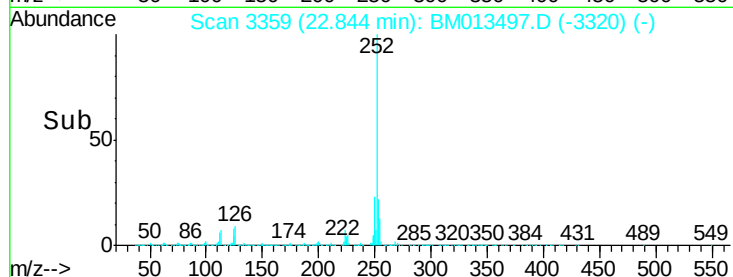
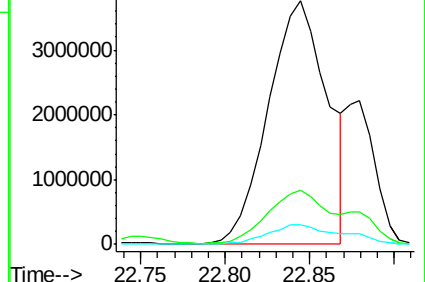
125 8.0 3.6 5.4#



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



#86

Benzo(k)fluoranthene

Concen: 183.236 ng/ul

RT: 22.84 min Scan# 3359

Delta R.T. -0.01 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

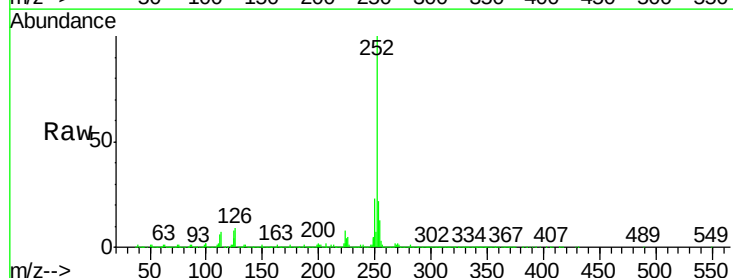
Tgt Ion:252 Resp: 9036588

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

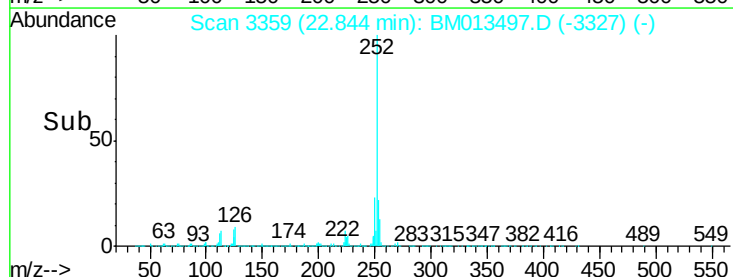
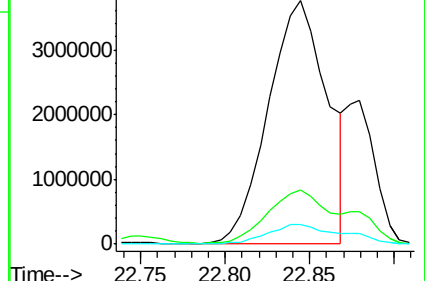
125 8.0 3.4 5.2#

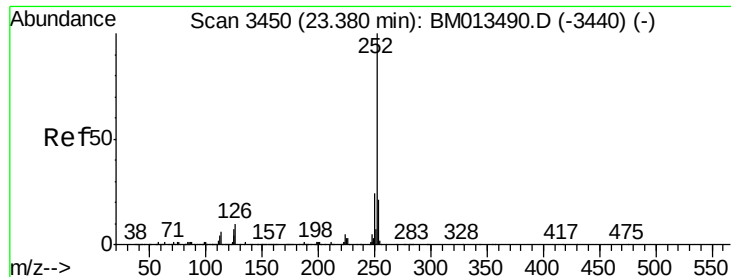


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 86.711 ng/ul

RT: 23.41 min Scan# 3455

Delta R.T. 0.03 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

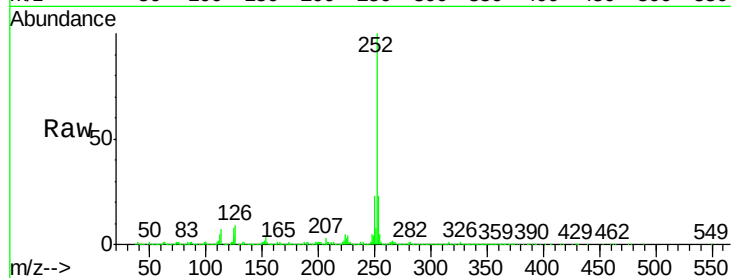
Tot Ion:252 Resp: 4081966

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	8.0	4.0	6.0

252 100

253 22.8 18.2 27.2

125 8.0 4.0 6.0

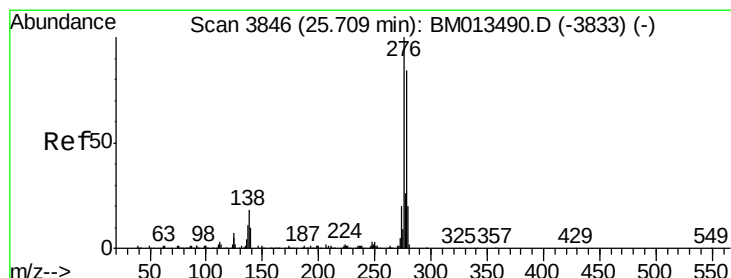
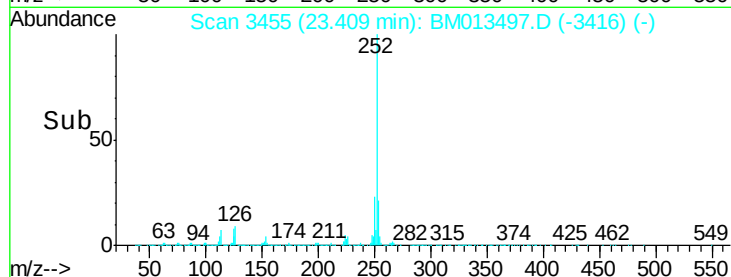
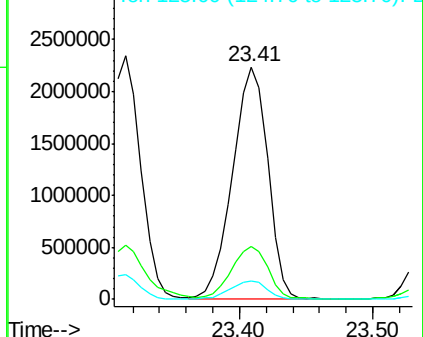


Abundance

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



#89

Indeno(1,2,3-cd)pyrene

Concen: 77.313 ng/ul

RT: 25.75 min Scan# 3853

Delta R.T. 0.04 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

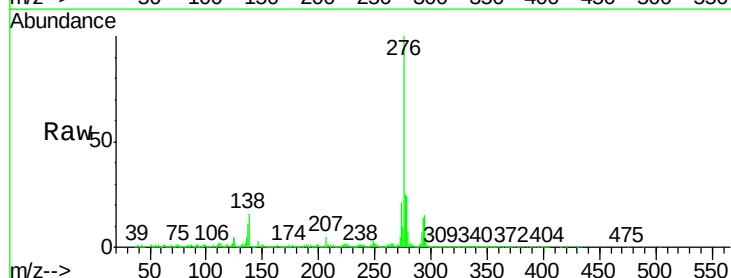
Tgt Ion:276 Resp: 3611241

Ion	Ratio	Lower	Upper
276	100		
138	15.9	9.3	13.9
277	24.6	19.9	29.9

276 100

138 15.9 9.3 13.9

277 24.6 19.9 29.9

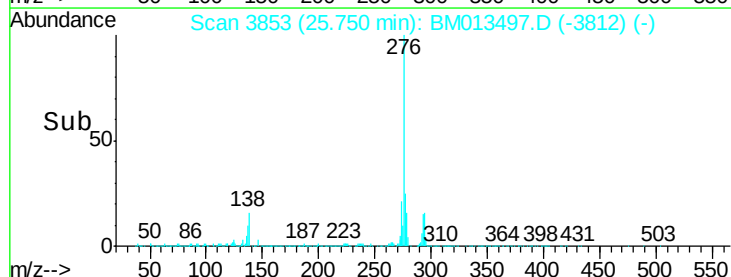
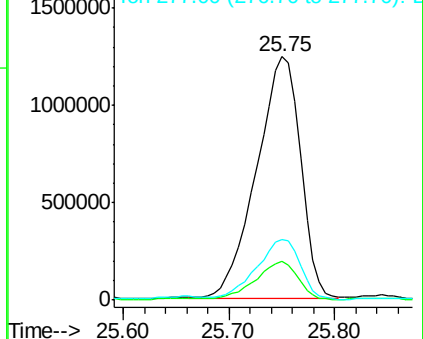


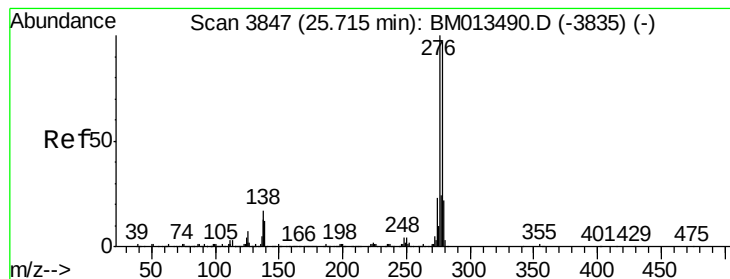
Abundance

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





#90

Dibenzo(a,h)anthracene

Concen: 24.505 ng/ul

RT: 25.74 min Scan# 3852

Delta R.T. 0.03 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

Instrument :

BNA_M

ClientSampleId :

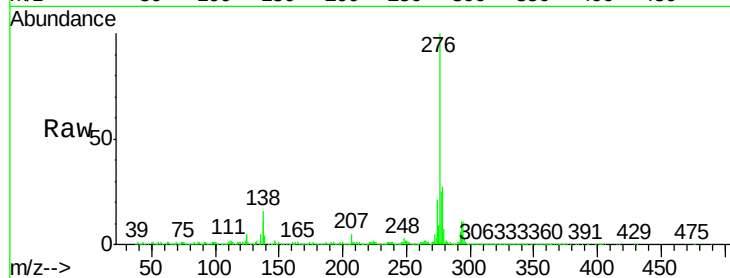
Tot Ion:278 Resp: 974616

Ion Ratio Lower Upper

278 100

139 14.9 5.8 8.8#

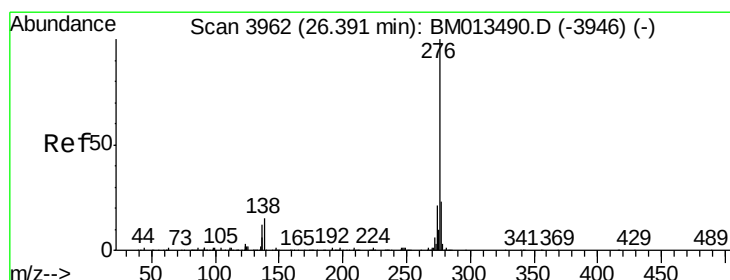
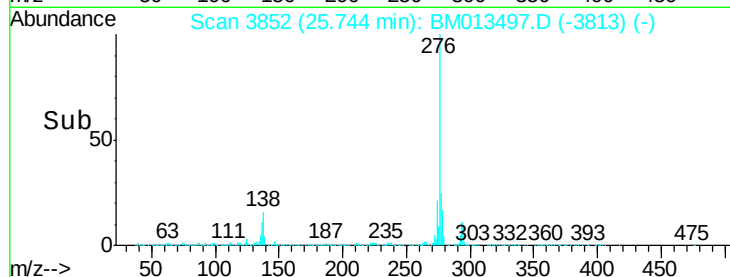
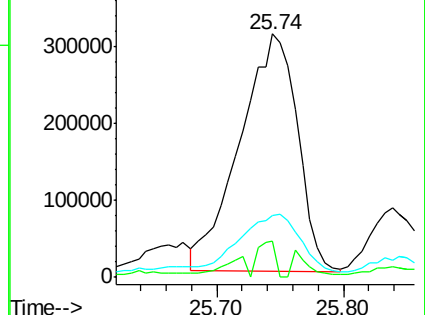
279 25.7 18.6 27.8



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



#91

Benzo(g,h,i)perylene

Concen: 90.387 ng/ul

RT: 26.44 min Scan# 3970

Delta R.T. 0.05 min

Lab File: BM013497.D

Acq: 18 Dec 2017 14:13

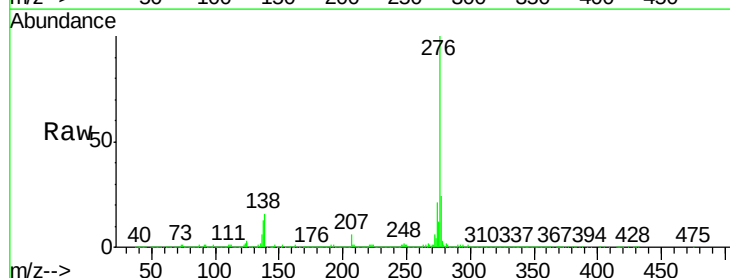
Tgt Ion:276 Resp: 3330212

Ion Ratio Lower Upper

276 100

138 15.6 8.5 12.7#

277 23.7 18.6 28.0



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

