

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF081716\
 Data File : BF089780.D
 Acq On : 17 Aug 2016 22:59
 Operator : UM/SJ
 Sample : H4490-10
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 670-UNDERCLIFF-5

Quant Time: Aug 18 08:34:17 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 16 19:45:04 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

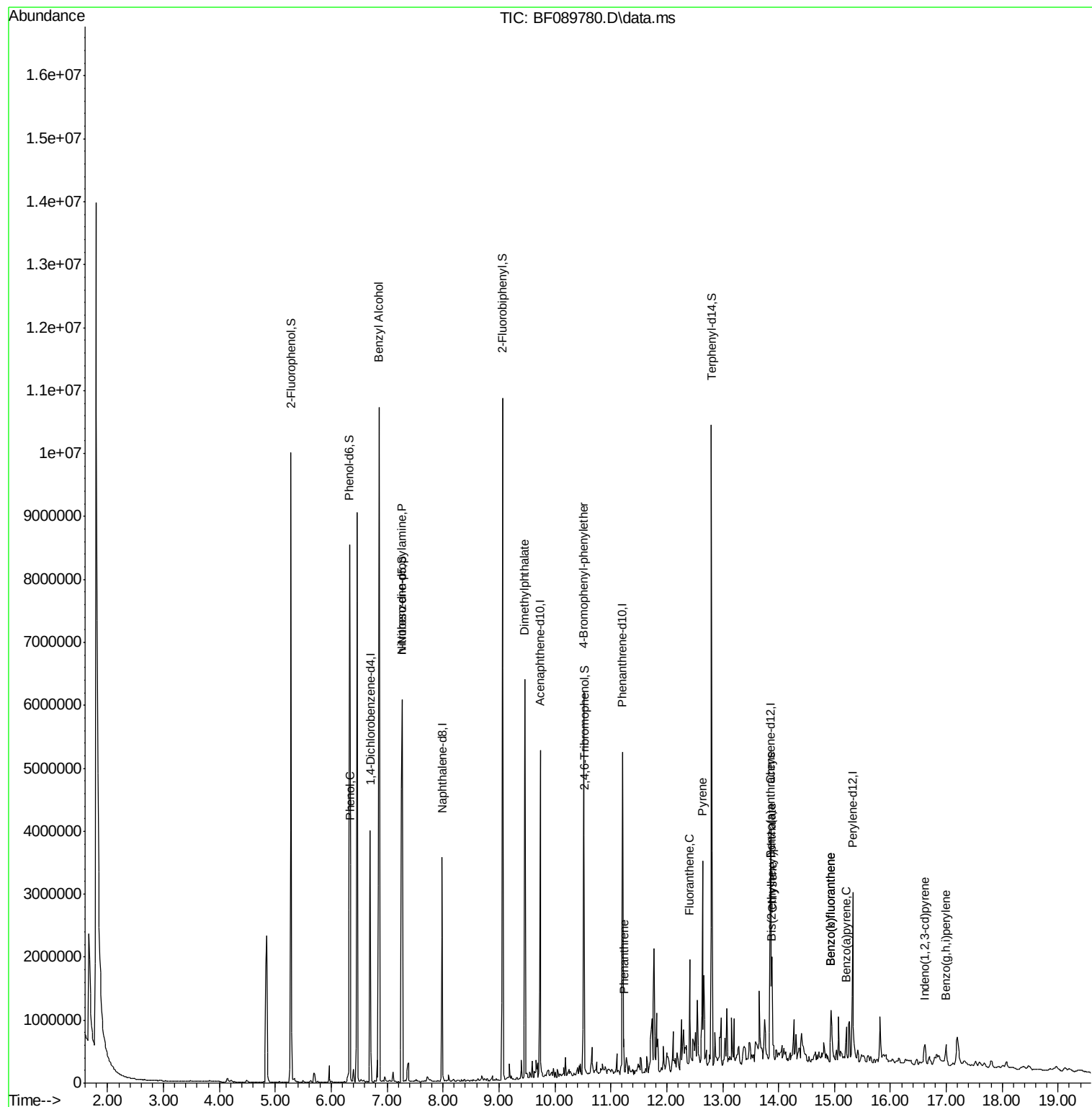
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.696	152	545803	20.00	ng	0.00
21) Naphthalene-d8	7.988	136	2084700	20.00	ng	0.00
38) Acenaphthene-d10	9.736	164	1001108	20.00	ng	0.00
63) Phenanthrene-d10	11.211	188	1769500	20.00	ng	0.00
75) Chrysene-d12	13.862	240	1209283	20.00	ng	-0.03
86) Perylene-d12	15.325	264	1120543	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.279	112	3077675	94.08	ng	0.00
7) Phenol-d6	6.330	99	3869266	92.99	ng	0.00
23) Nitrobenzene-d5	7.268	82	2717048	79.58	ng	0.00
41) 2,4,6-Tribromophenol	10.525	330	1025024	105.84	ng	0.00
44) 2-Fluorobiphenyl	9.062	172	4405908	70.62	ng	-0.01
78) Terphenyl-d14	12.800	244	3394330	83.86	ng	-0.01
Target Compounds						
						Qvalue
10) Phenol	6.342	94	110923	2.14	ng	84
15) Benzyl Alcohol	6.856	79	64364	2.31	ng	# 46
19) n-Nitroso-di-n-propyla...	7.268	70	360856	13.24	ng	# 71
49) Dimethylphthalate	9.462	163	2463042	34.00	ng	99
66) 4-Bromophenyl-phenylether	10.514	248	55485	3.03	ng	# 1
70) Phenanthrene	11.234	178	201222	2.31	ng	98
74) Fluoranthene	12.411	202	743278	8.51	ng	94
77) Pyrene	12.639	202	1128041	14.25	ng	98
80) Benzo(a)anthracene	13.851	228	495721	7.06	ng	95
82) Chrysene	13.885	228	550320	8.70	ng	97
83) Bis(2-ethylhexyl)phtha...	13.874	149	165541	3.15	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.617	276	219645	4.08	ng	94
87) Benzo(b)fluoranthene	14.937	252	594306	8.37	ng	98
88) Benzo(k)fluoranthene	14.937	252	594306	10.17	ng	99
89) Benzo(a)pyrene	15.211	252	256853	4.38	ng	97
91) Benzo(a,h,i)perylene	16.994	276	245276	5.22	ng	97

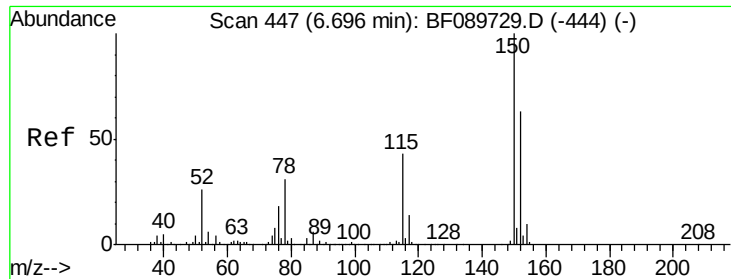
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.696 min Scan# 44

Delta R.T. 0.000 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

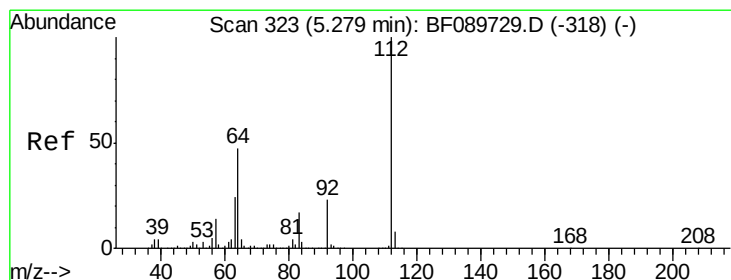
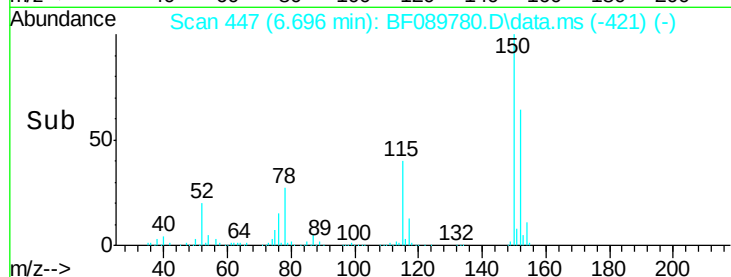
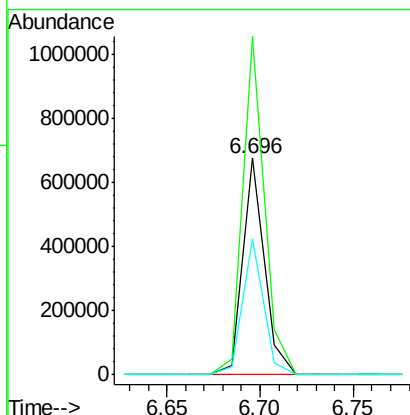
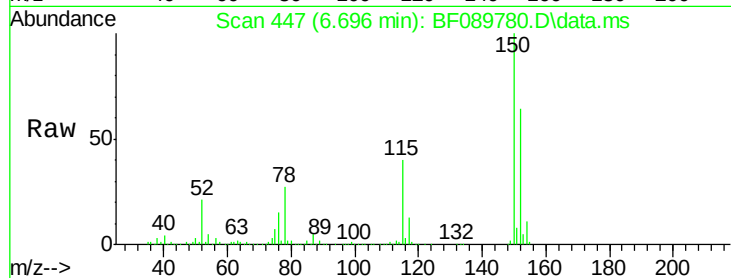
Tot Ion:152 Resp: 545803

Ion Ratio Lower Upper

152 100

150 156.6 125.3 187.9

115 63.1 40.9 61.3#



#5

2-Fluorophenol

Concen: 94.08 ng

RT: 5.279 min Scan# 323

Delta R.T. 0.001 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

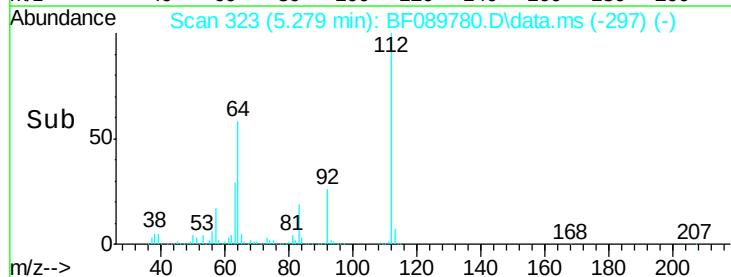
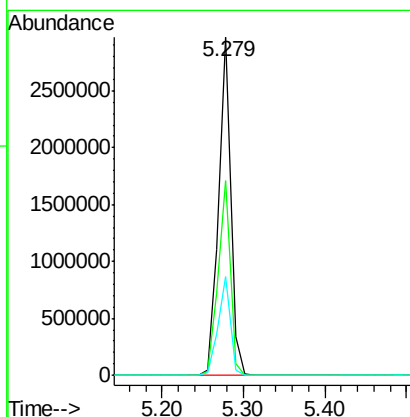
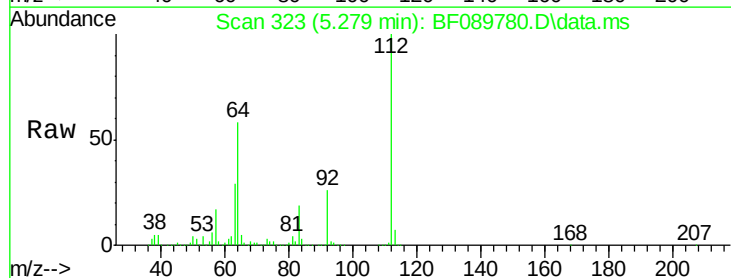
Tgt Ion:112 Resp: 3077675

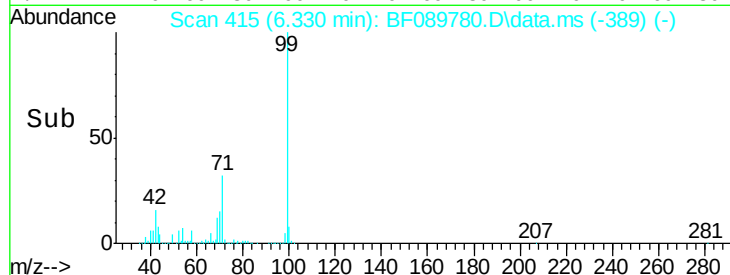
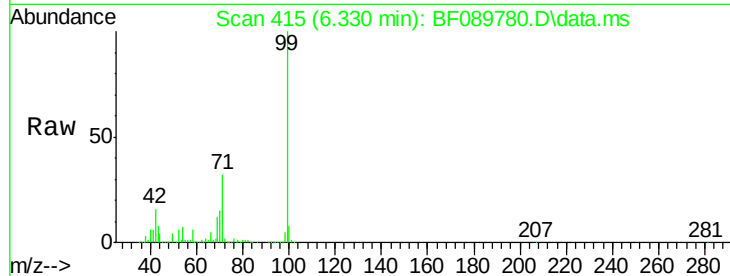
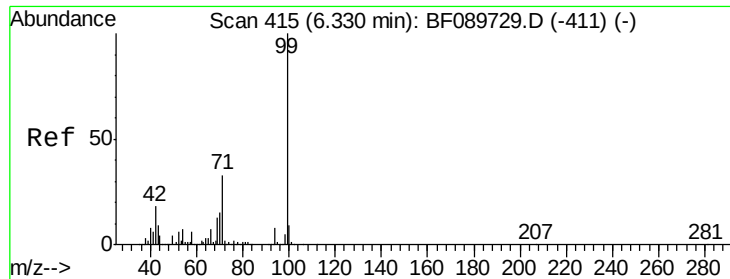
Ion Ratio Lower Upper

112 100

64 57.5 45.0 67.4

63 29.3 23.1 34.7





#7

Phenol-d6

Concen: 92.99 ng

RT: 6.330 min Scan# 41

Delta R.T. 0.000 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

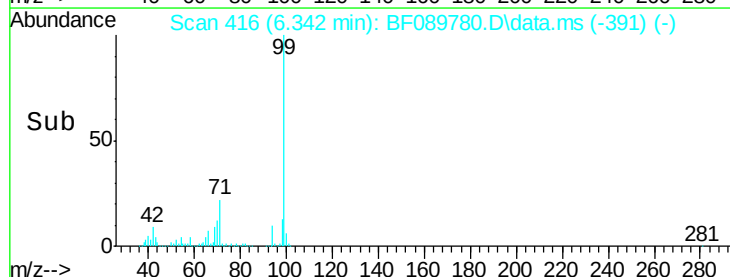
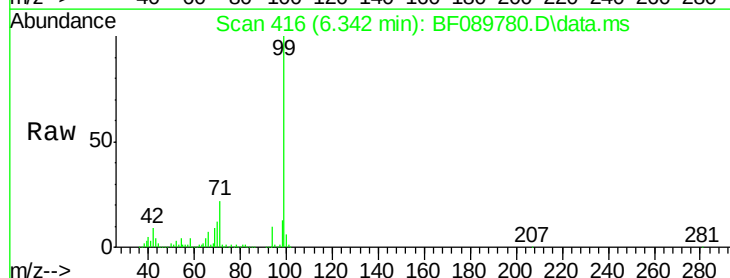
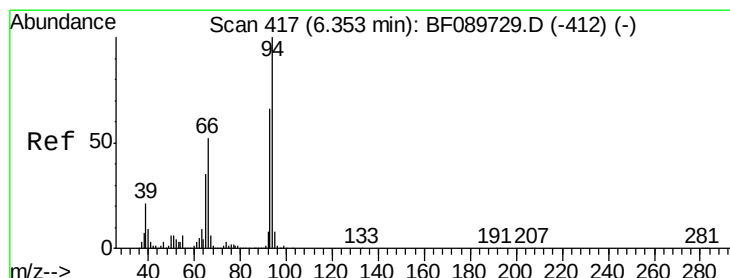
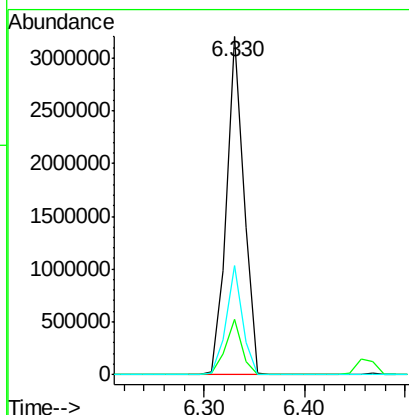
Tot Ion: 99 Resp: 3869266

Ion Ratio Lower Upper

99 100

42 16.2 12.2 18.4

71 32.1 23.8 35.8



#10

Phenol

Concen: 2.14 ng

RT: 6.342 min Scan# 416

Delta R.T. -0.011 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

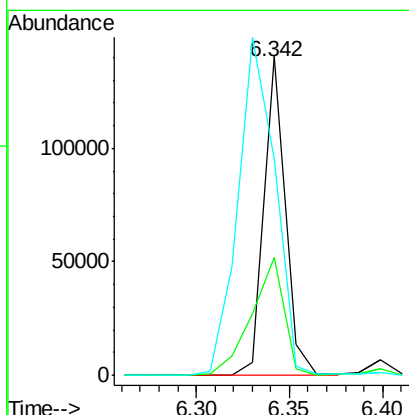
Tgt Ion: 94 Resp: 110923

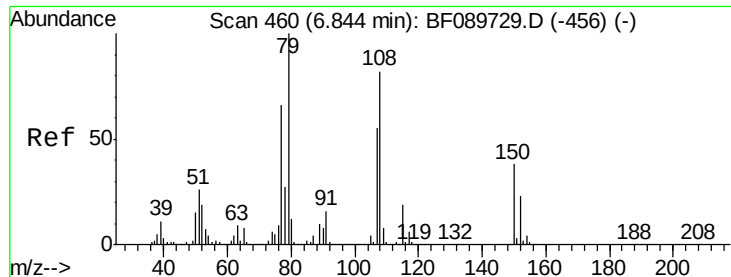
Ion Ratio Lower Upper

94 100

65 36.8 14.0 54.0

66 67.8 31.2 71.2





#15

Benzyl Alcohol

Concen: 2.31 ng

RT: 6.856 min Scan# 461

Delta R.T. 0.012 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

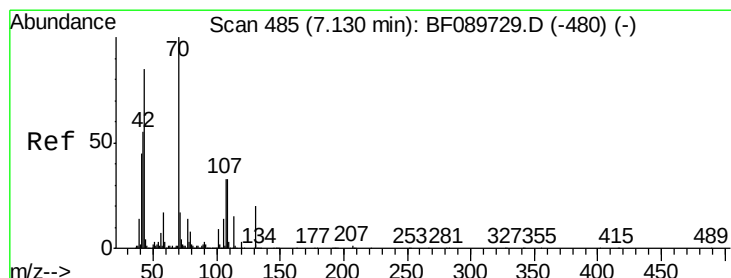
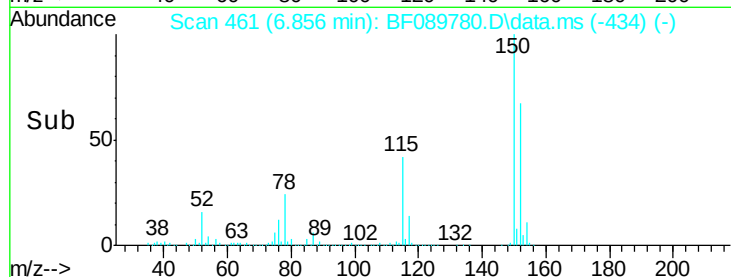
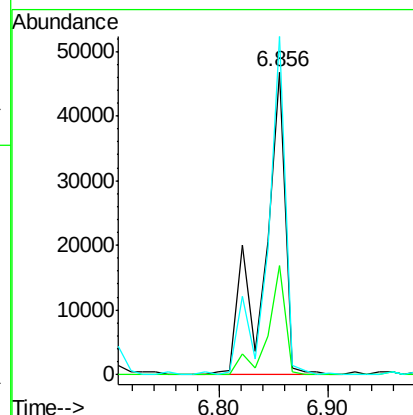
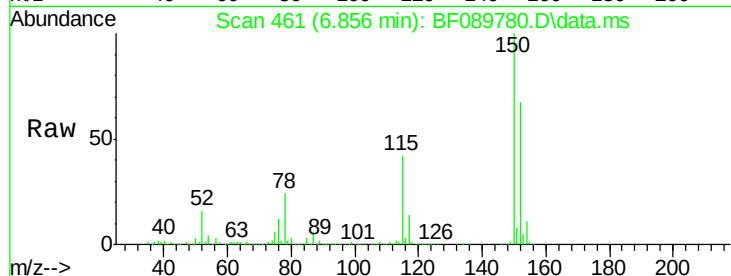
Tot Ion: 79 Resp: 64364

Ion Ratio Lower Upper

79 100

108 35.8 62.5 93.7#

77 111.6 51.5 77.3#



#19

n-Nitroso-di-n-propylamine

Concen: 13.24 ng

RT: 7.268 min Scan# 497

Delta R.T. 0.137 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Tgt Ion: 70 Resp: 360856

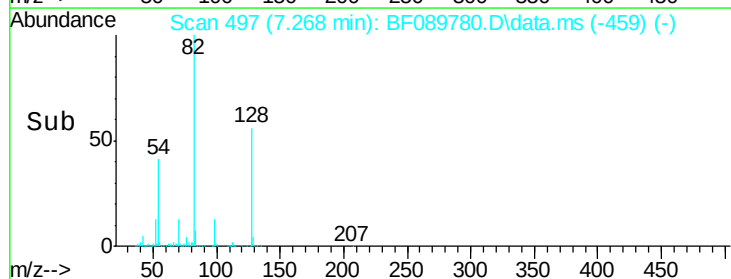
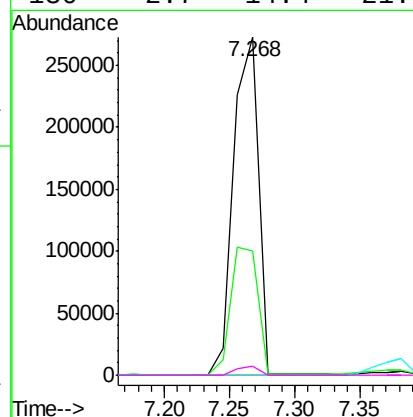
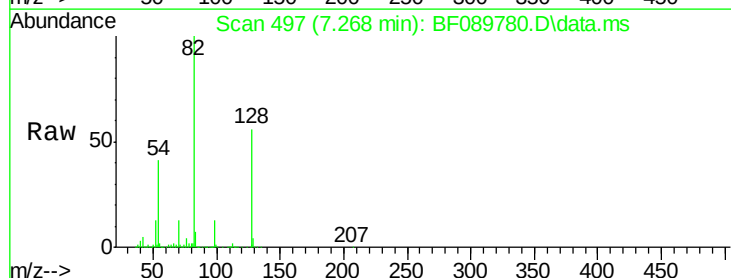
Ion Ratio Lower Upper

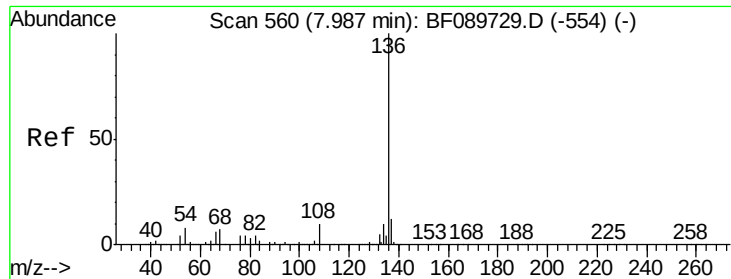
70 100

42 36.9 46.3 69.5#

101 0.0 7.0 10.6#

130 2.7 14.4 21.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.988 min Scan# 560

Delta R.T. 0.000 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

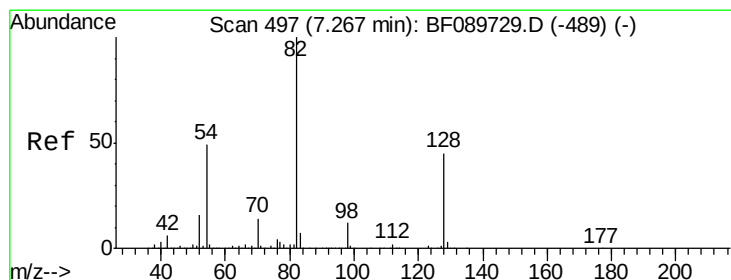
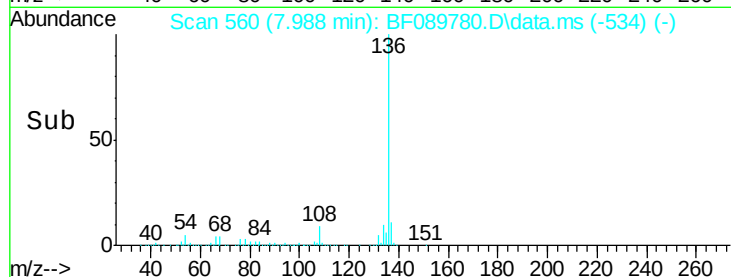
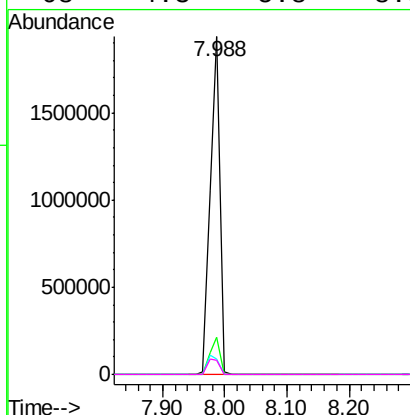
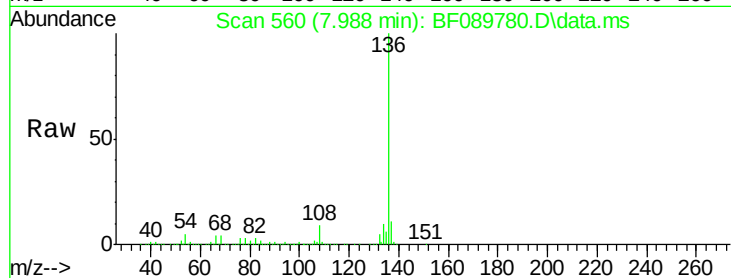
BNA_F

ClientSampleId :

670-UNDERCLIFF-5

Tot Ion:136 Resp: 2084700

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	4.6	7.2	10.8#
68	4.3	5.8	8.8#



#23

Nitrobenzene-d5

Concen: 79.58 ng

RT: 7.268 min Scan# 497

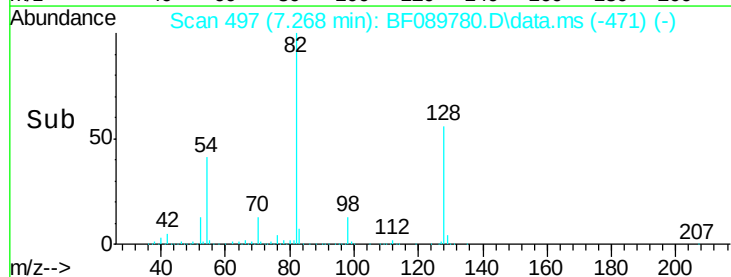
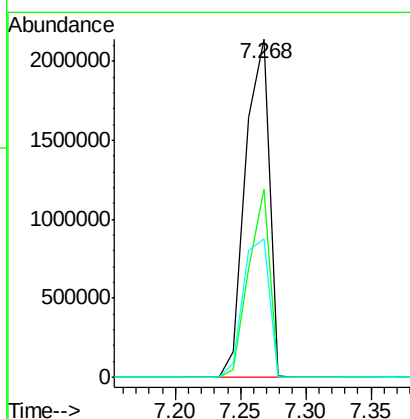
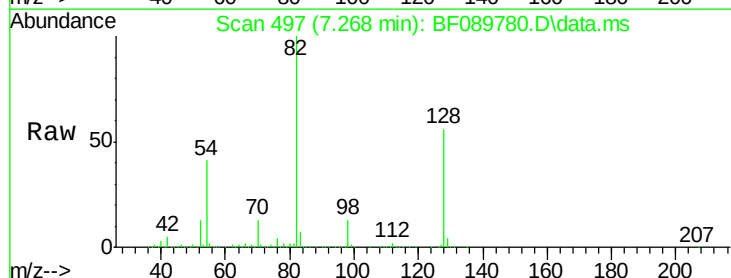
Delta R.T. 0.000 min

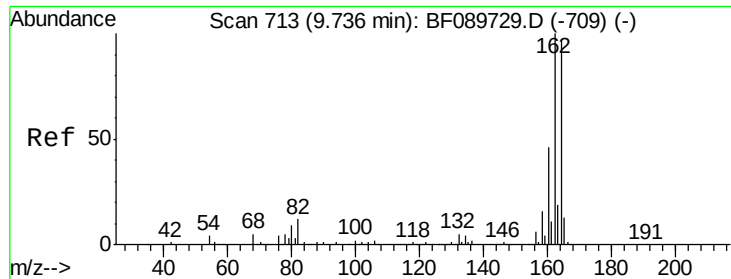
Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Tgt Ion: 82 Resp: 2717048

Ion	Ratio	Lower	Upper
82	100		
128	55.8	34.4	51.6#
54	40.9	40.3	60.5

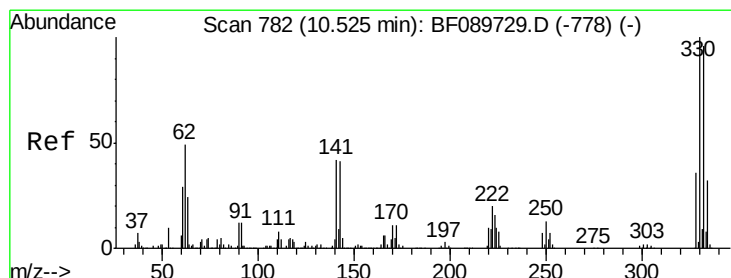
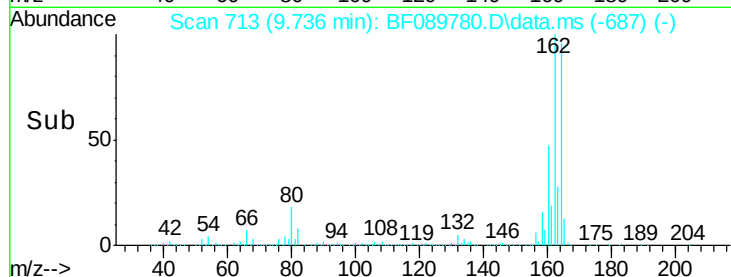
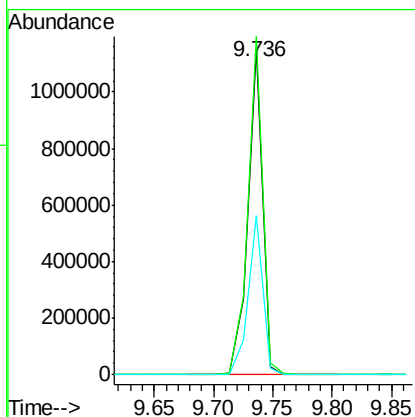
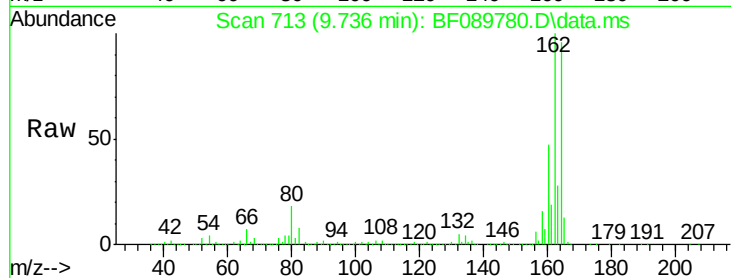




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.736 min Scan# 713
 Delta R.T. 0.000 min
 Lab File: BF089780.D
 Acq: 17 Aug 2016 22:59

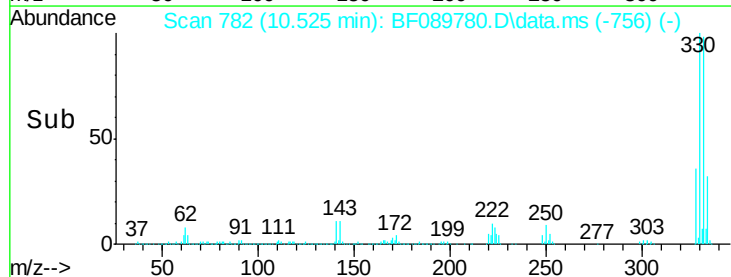
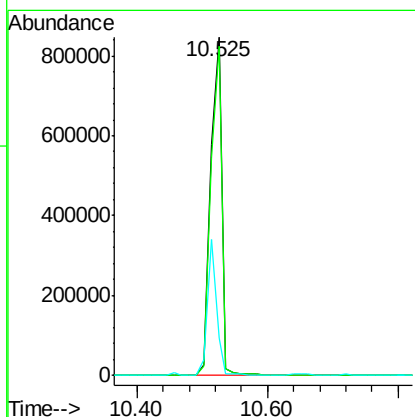
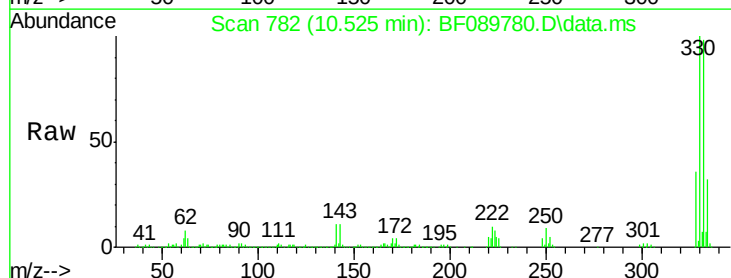
Instrument :
 BNA_F
 ClientSampleId :
 670-UNDERCLIFF-5

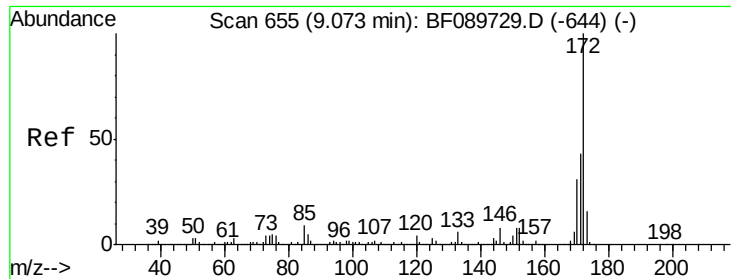
Tot Ion:164 Resp: 1001108
 Ion Ratio Lower Upper
 164 100
 162 104.1 81.4 122.2
 160 48.9 37.8 56.6



#41
 2,4,6-Tribromophenol
 Concen: 105.84 ng
 RT: 10.525 min Scan# 782
 Delta R.T. 0.000 min
 Lab File: BF089780.D
 Acq: 17 Aug 2016 22:59

Tgt Ion:330 Resp: 1025024
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.7 115.1
 141 32.1 30.2 45.2

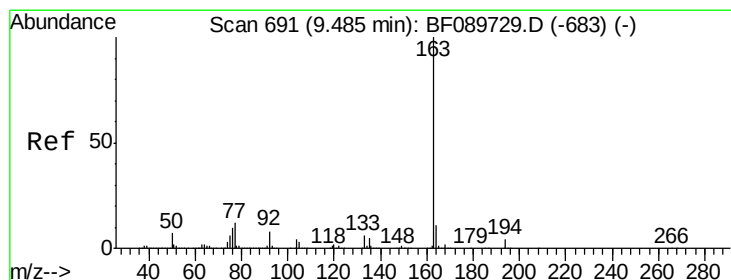
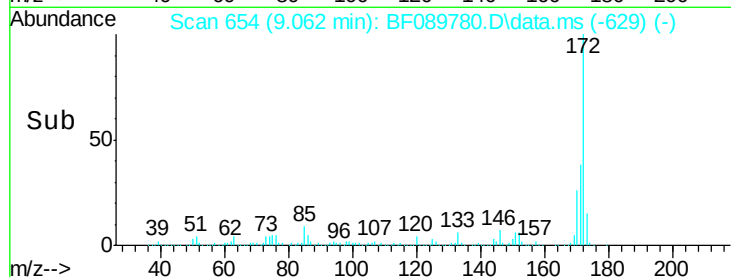
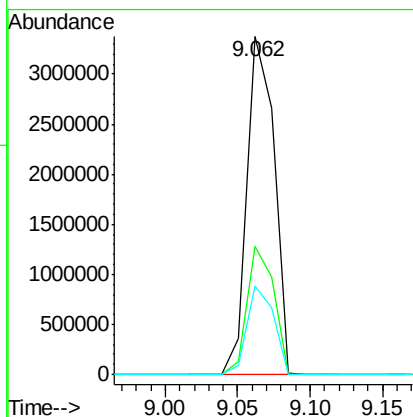
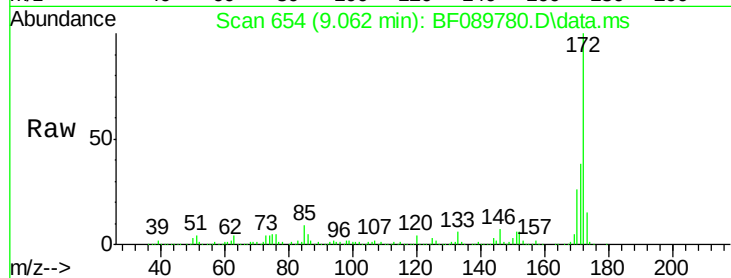




#44
2-Fluorobiphenyl
Concen: 70.62 ng
RT: 9.062 min Scan# 65
Delta R.T. -0.011 min
Lab File: BF089780.D
Acq: 17 Aug 2016 22:59

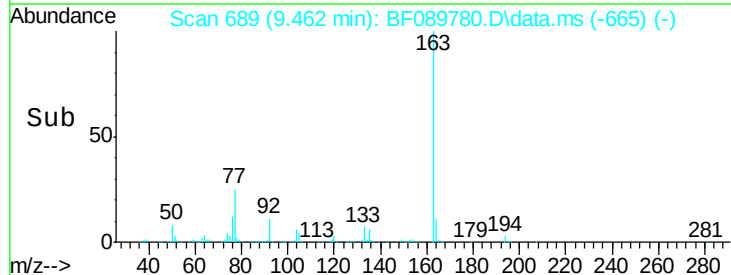
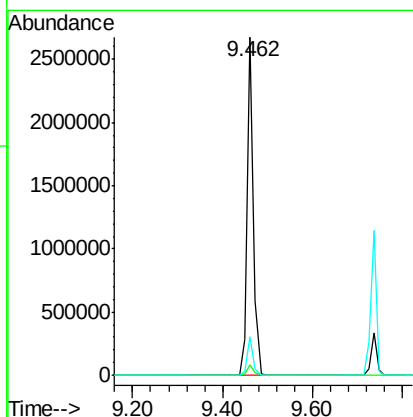
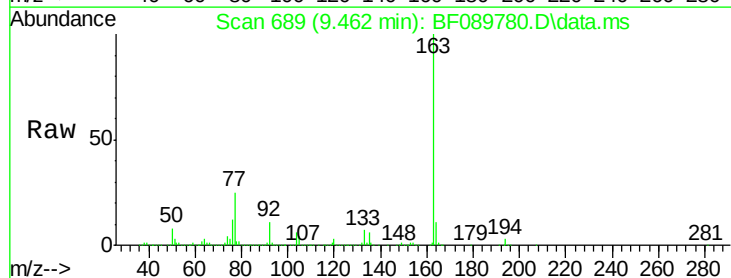
Instrument :
BNA_F
ClientSampleId :
670-UNDERCLIFF-5

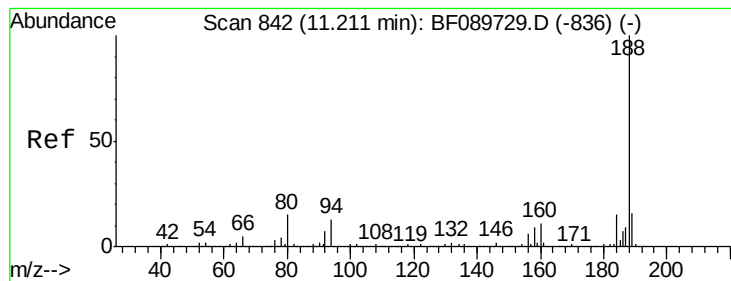
Tot Ion:172 Resp: 4405908
Ion Ratio Lower Upper
172 100
171 37.9 30.5 45.7
170 26.2 20.6 31.0



#49
Dimethylphthalate
Concen: 34.00 ng
RT: 9.462 min Scan# 689
Delta R.T. -0.023 min
Lab File: BF089780.D
Acq: 17 Aug 2016 22:59

Tgt Ion:163 Resp: 2463042
Ion Ratio Lower Upper
163 100
194 3.2 2.6 3.8
164 11.3 8.6 12.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.211 min Scan# 84

Delta R.T. 0.000 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

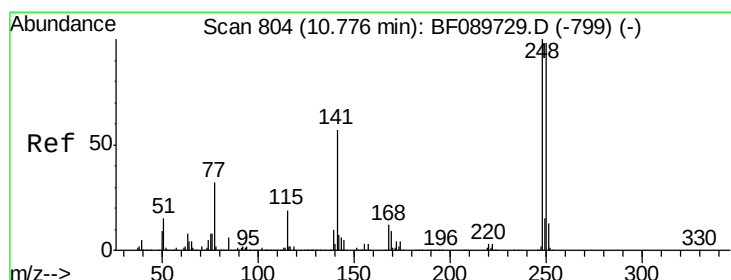
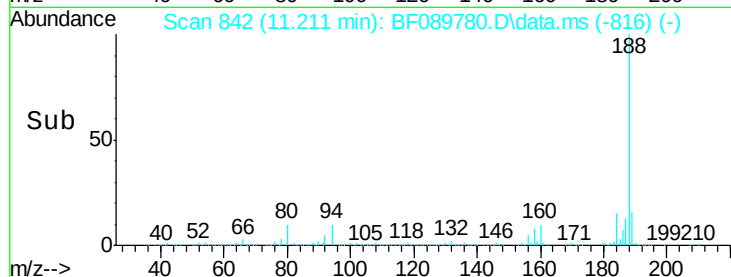
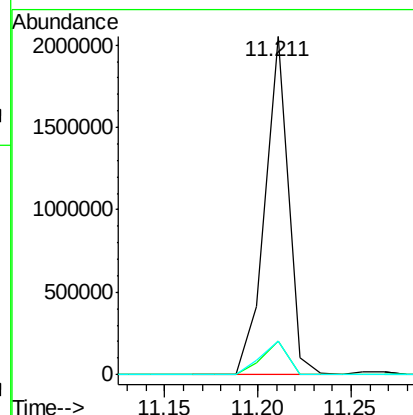
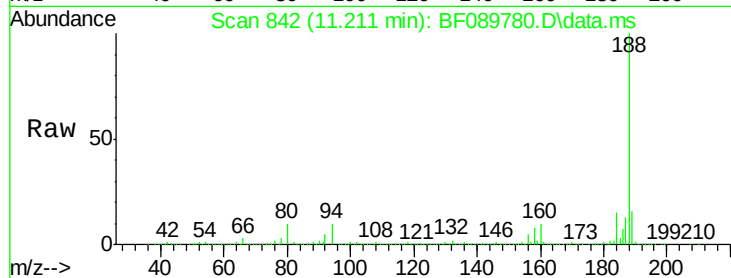
Tot Ion:188 Resp: 1769500

Ion Ratio Lower Upper

188 100

94 9.7 10.2 15.2#

80 10.0 10.9 16.3#



#66

4-Bromophenyl-phenylether

Concen: 3.03 ng

RT: 10.514 min Scan# 781

Delta R.T. -0.263 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

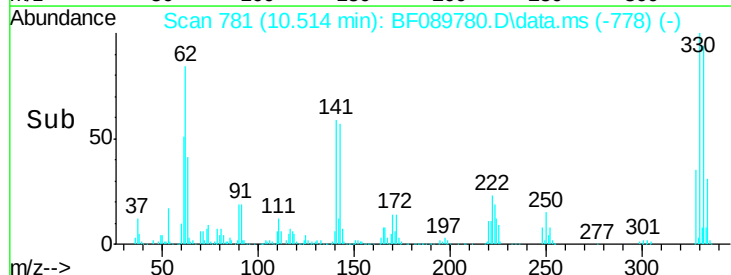
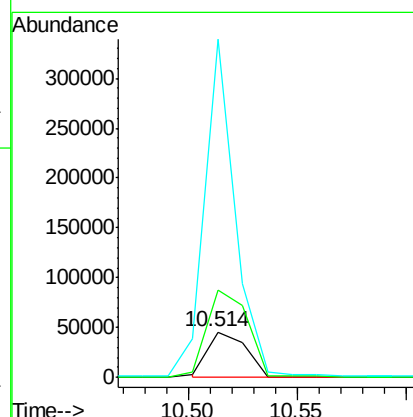
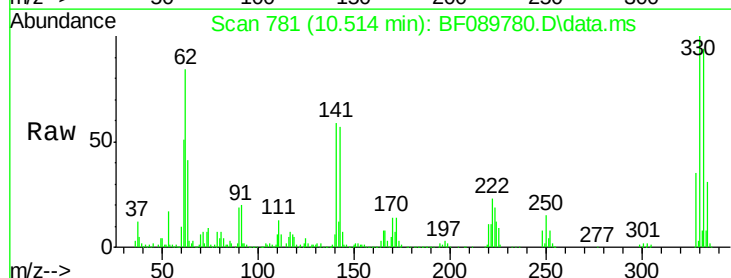
Tgt Ion:248 Resp: 55485

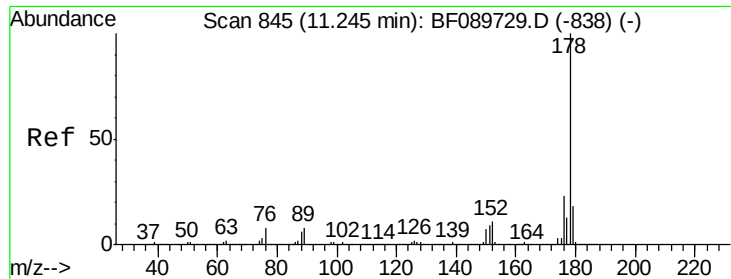
Ion Ratio Lower Upper

248 100

250 193.3 78.6 117.8#

141 749.8 31.4 47.2#





#70

Phenanthrene

Concen: 2.31 ng

RT: 11.234 min Scan# 84

Delta R.T. -0.010 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

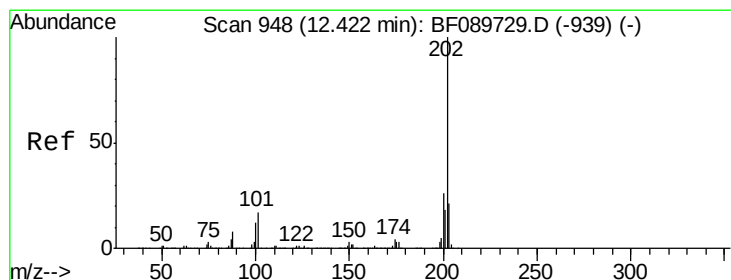
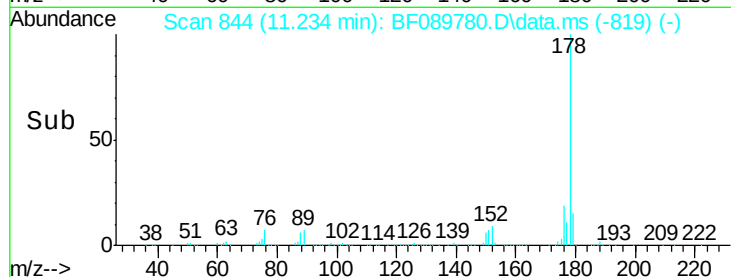
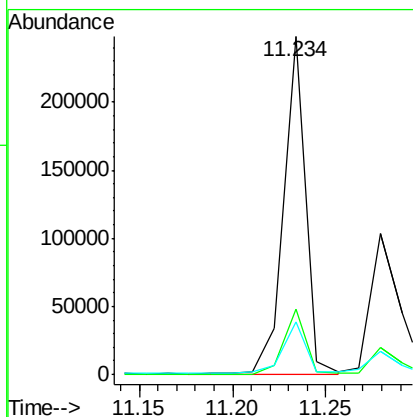
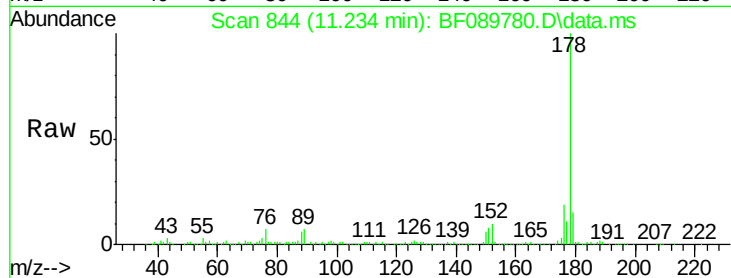
Tot Ion:178 Resp: 201222

Ion Ratio Lower Upper

178 100

176 19.3 16.4 24.6

179 15.4 12.5 18.7



#74

Fluoranthene

Concen: 8.51 ng

RT: 12.411 min Scan# 947

Delta R.T. -0.011 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

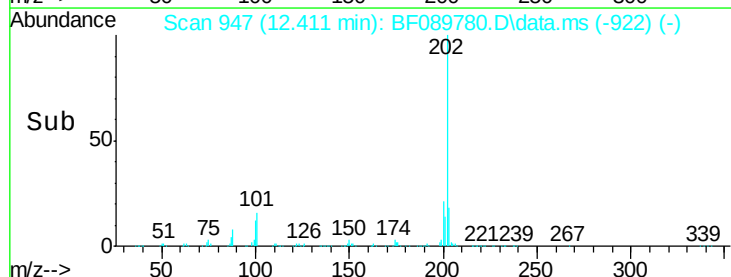
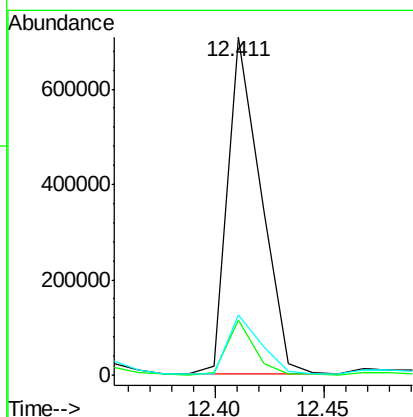
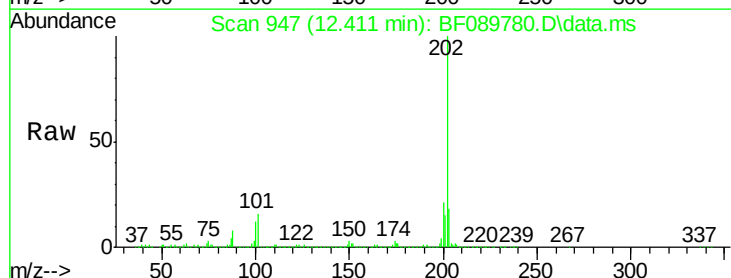
Tgt Ion:202 Resp: 743278

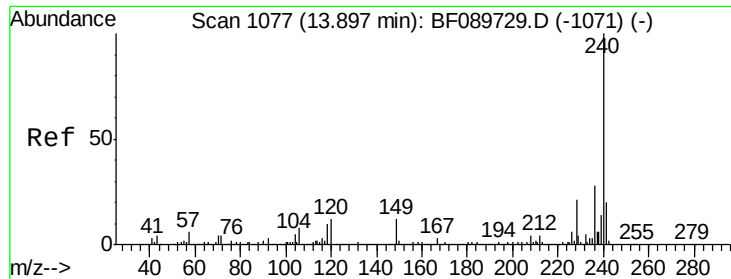
Ion Ratio Lower Upper

202 100

101 16.4 0.0 31.2

203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.862 min Scan# 10

Delta R.T. -0.034 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

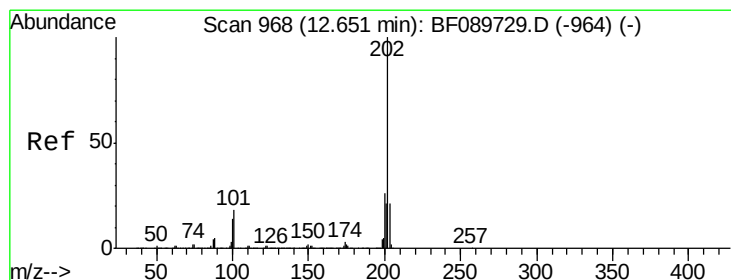
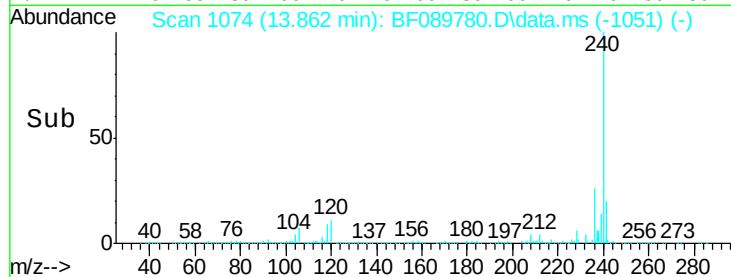
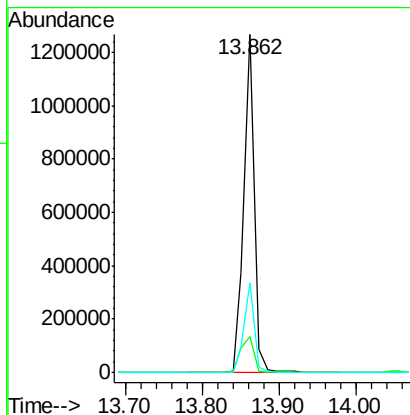
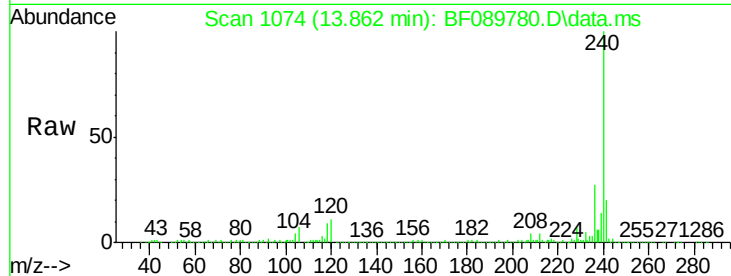
Tot Ion:240 Resp: 1209283

Ion Ratio Lower Upper

240 100 8.3 12.5

120 10.8 21.3 31.9

236 26.6



#77

Pyrene

Concen: 14.25 ng

RT: 12.639 min Scan# 967

Delta R.T. -0.011 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

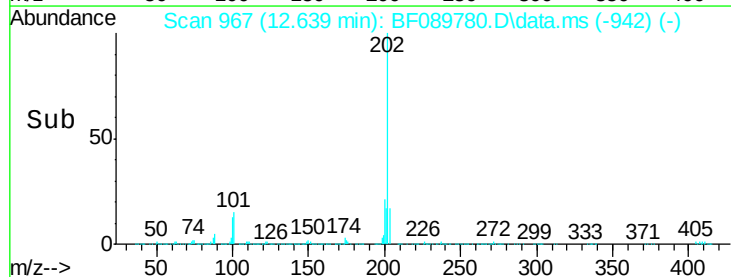
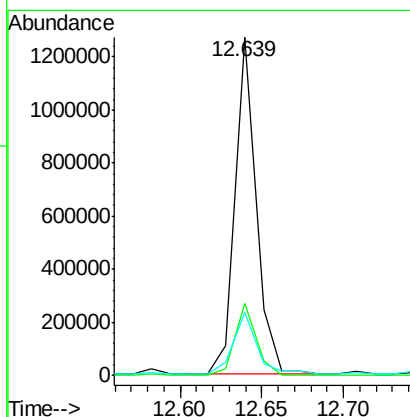
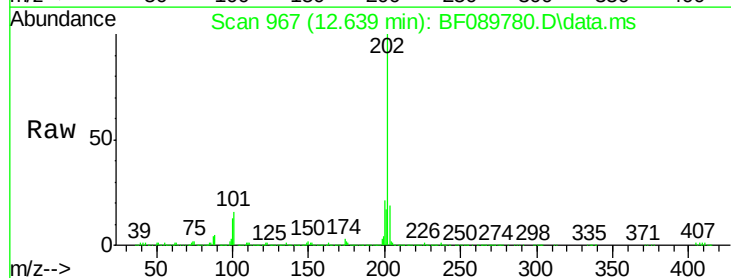
Tgt Ion:202 Resp: 1128041

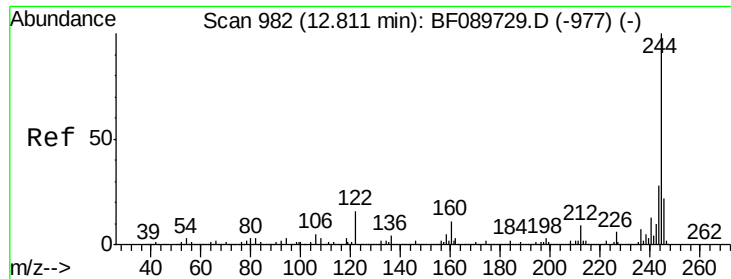
Ion Ratio Lower Upper

202 100 17.8 26.6

200 21.4 14.2 21.4

203 18.7





#78

Terphenyl-d14

Concen: 83.86 ng

RT: 12.800 min Scan# 98

Delta R.T. -0.011 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

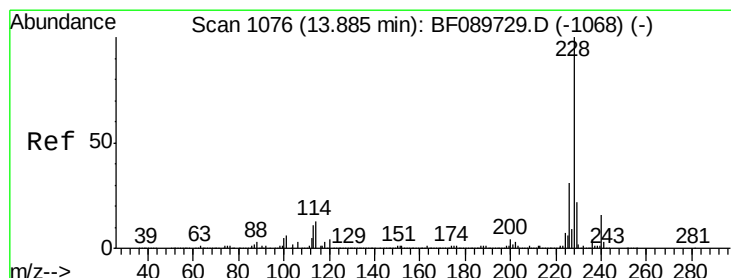
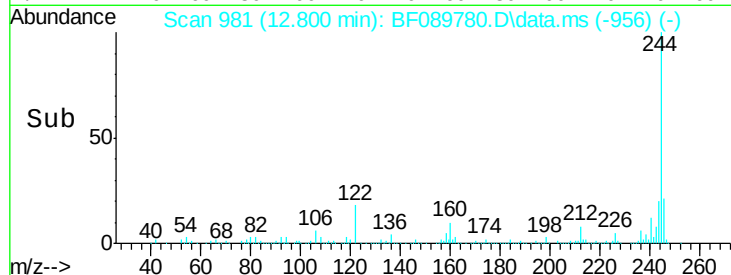
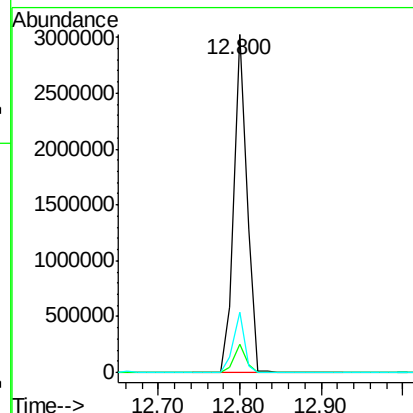
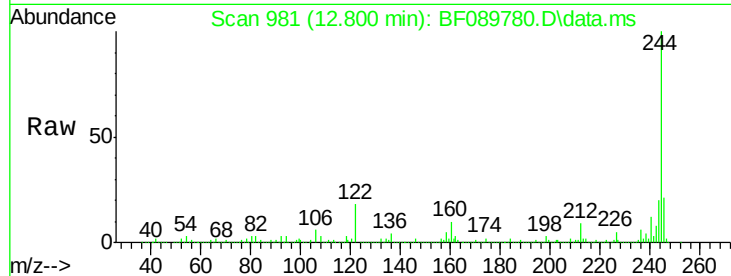
Tot Ion:244 Resp: 3394330

Ion Ratio Lower Upper

244 100

212 8.5 6.3 9.5

122 17.7 12.0 18.0



#80

Benzo(a)anthracene

Concen: 7.06 ng

RT: 13.851 min Scan# 1073

Delta R.T. -0.034 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

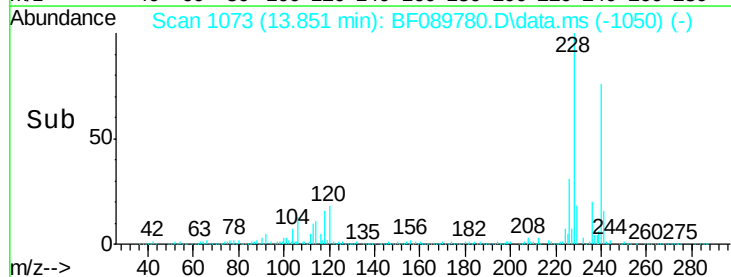
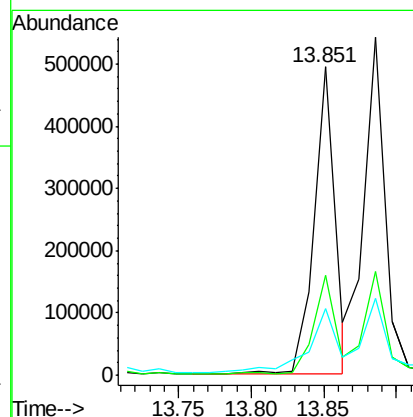
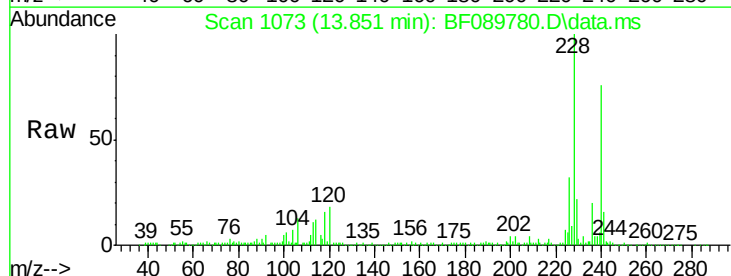
Tgt Ion:228 Resp: 495721

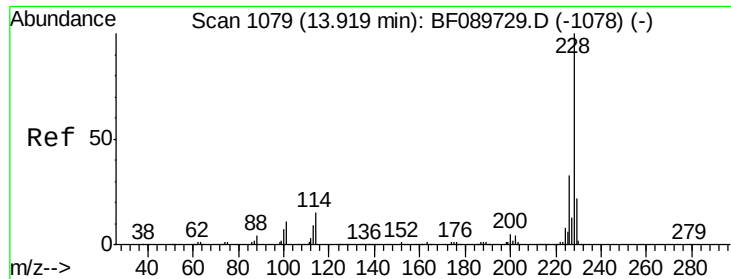
Ion Ratio Lower Upper

228 100

226 32.5 23.2 34.8

229 21.6 16.2 24.4





#82

Chrysene

Concen: 8.70 ng

RT: 13.885 min Scan# 1079

Delta R.T. -0.034 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

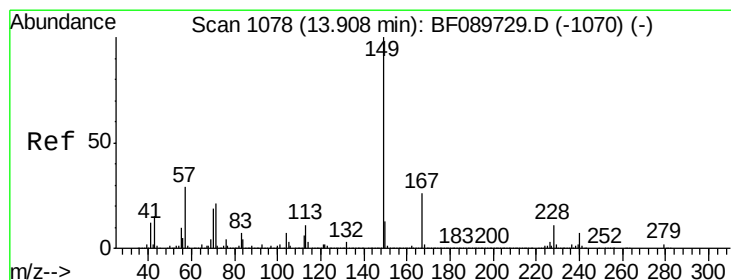
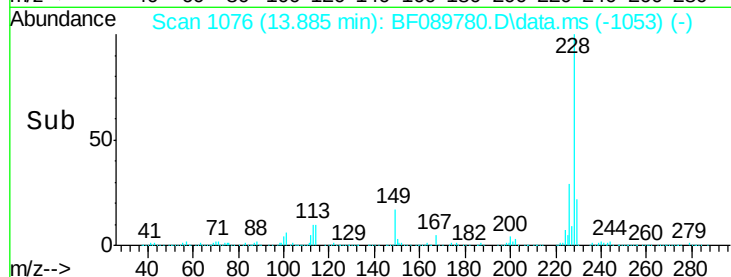
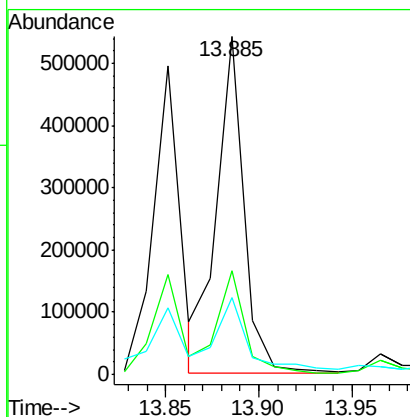
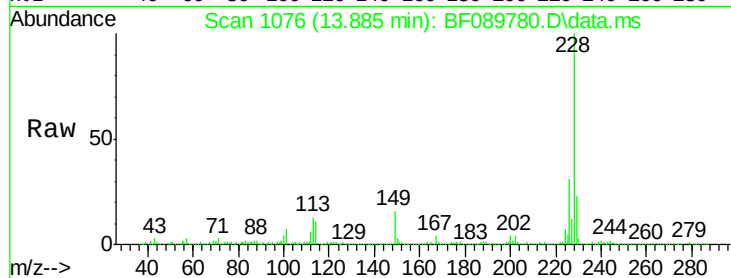
Tot Ion:228 Resp: 550320

Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.0

229 22.8 16.5 24.7



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.15 ng

RT: 13.874 min Scan# 1075

Delta R.T. -0.034 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

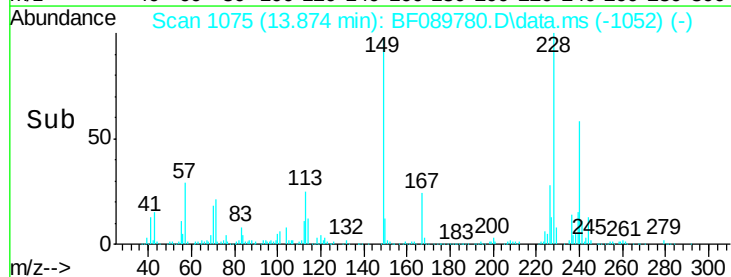
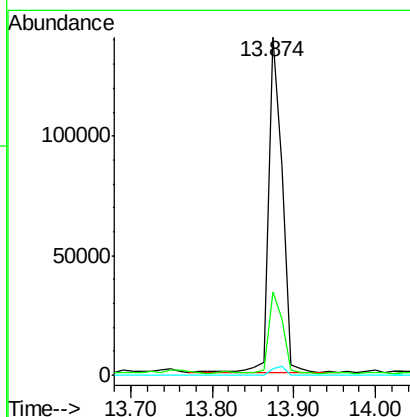
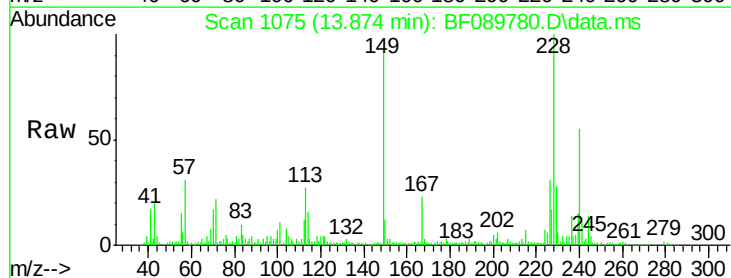
Tgt Ion:149 Resp: 165541

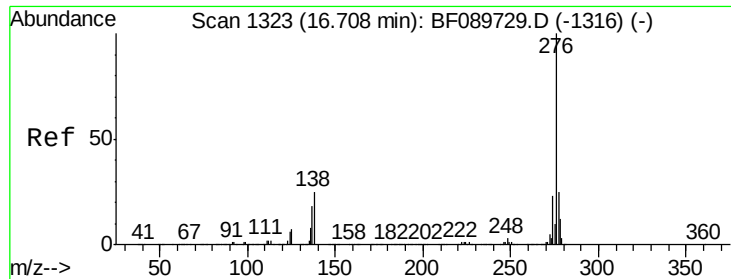
Ion Ratio Lower Upper

149 100

167 24.8 21.2 31.8

279 1.8 2.9 4.3#

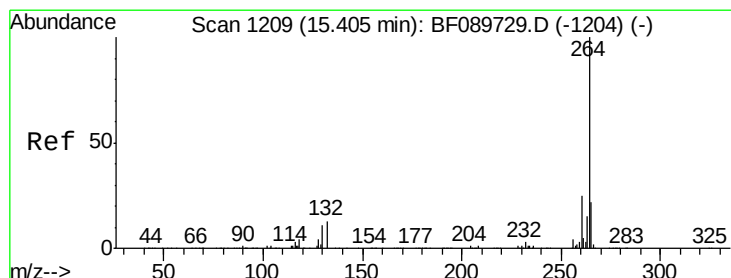
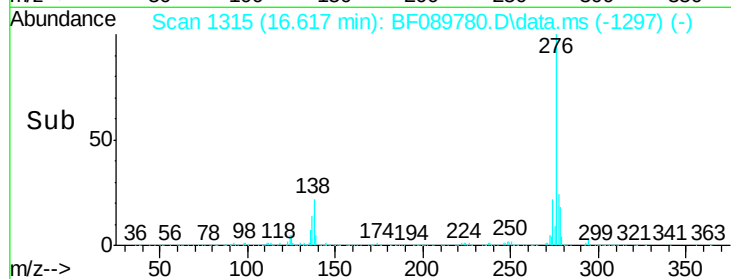
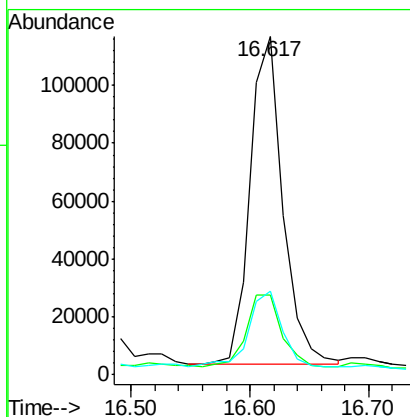
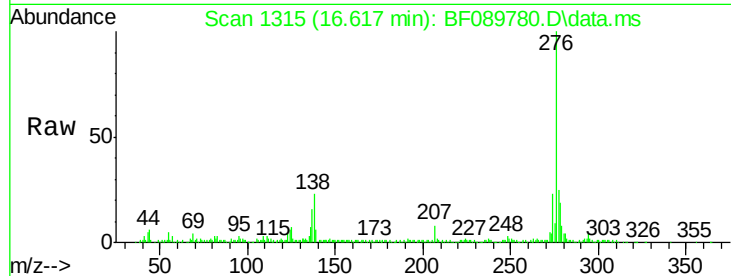




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.08 ng
 RT: 16.617 min Scan# 1315
 Delta R.T. -0.091 min
 Lab File: BF089780.D
 Acq: 17 Aug 2016 22:59

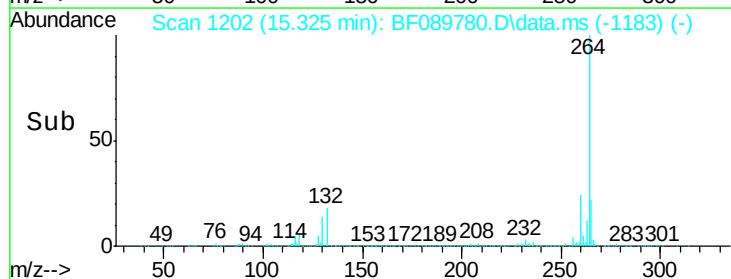
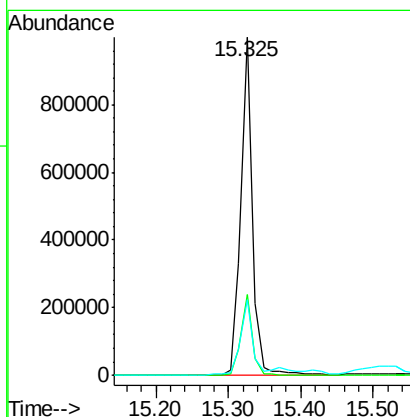
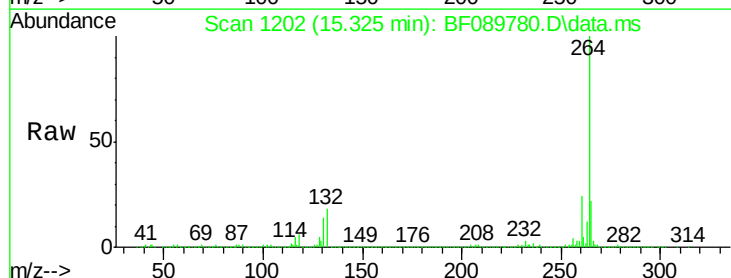
Instrument :
 BNA_F
 ClientSampleId :
 670-UNDERCLIFF-5

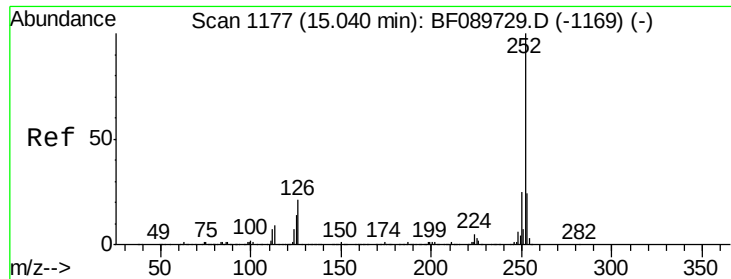
Tot Ion	Ratio	Lower	Upper
276	100		
138	25.6	24.6	36.8
277	27.0	20.4	30.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.325 min Scan# 1202
 Delta R.T. -0.080 min
 Lab File: BF089780.D
 Acq: 17 Aug 2016 22:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	20.2	30.2
265	22.5	17.4	26.2

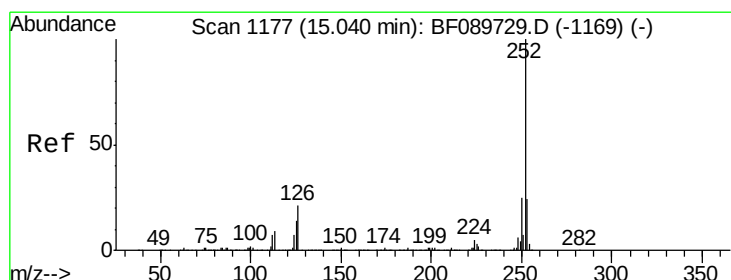
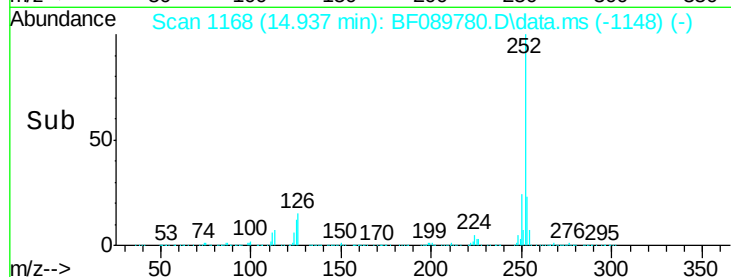
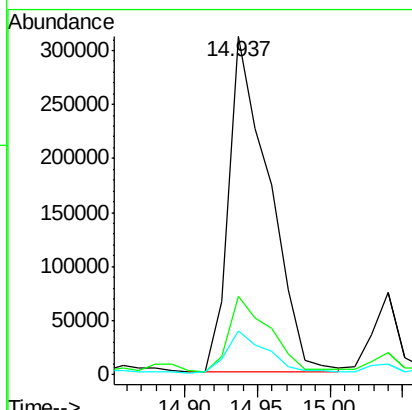
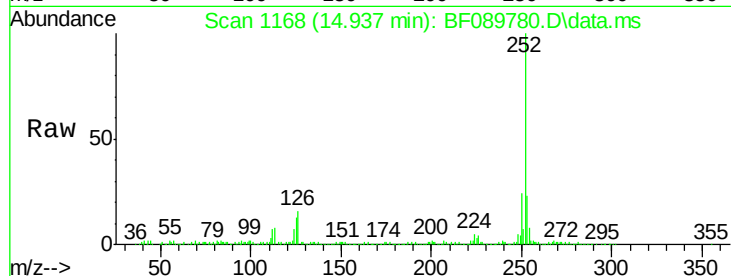




#87
Benzo(b)fluoranthene
Concen: 8.37 ng
RT: 14.937 min Scan# 1168
Delta R.T. -0.068 min
Lab File: BF089780.D
Acq: 17 Aug 2016 22:59

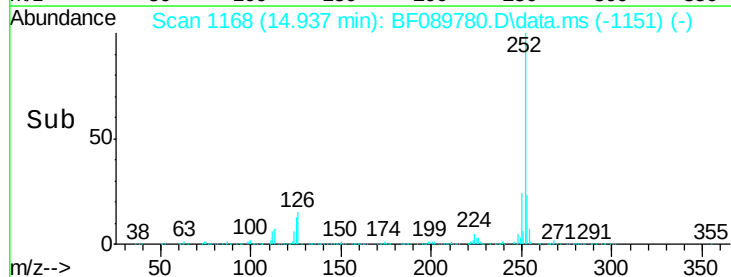
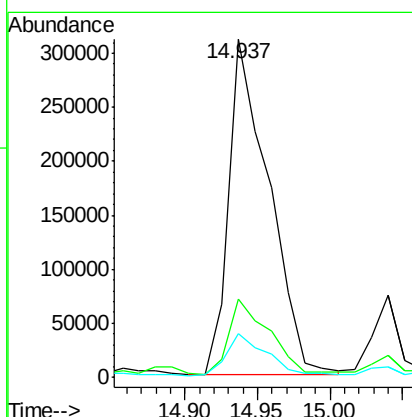
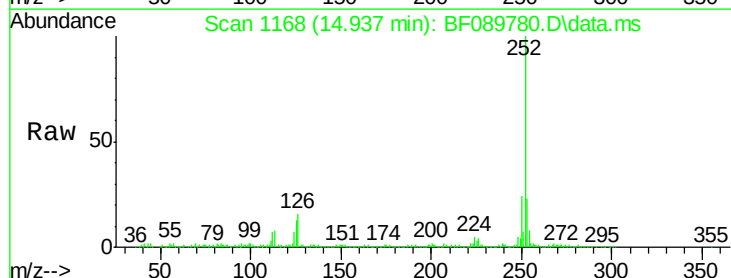
Instrument :
BNA_F
ClientSampleId :
670-UNDERCLIFF-5

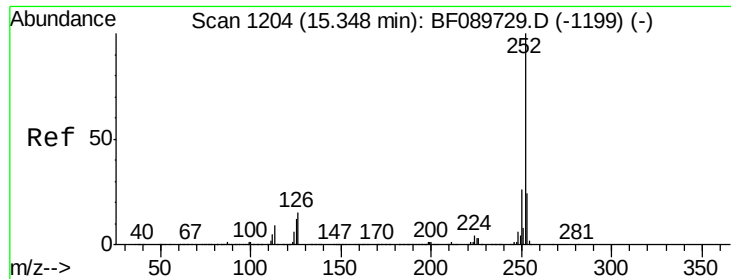
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	13.1	11.4	17.2



#88
Benzo(k)fluoranthene
Concen: 10.17 ng
RT: 14.937 min Scan# 1168
Delta R.T. -0.102 min
Lab File: BF089780.D
Acq: 17 Aug 2016 22:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	13.1	9.8	14.6





#89

Benzo(a)pyrene

Concen: 4.38 ng

RT: 15.211 min Scan# 11

Delta R.T. -0.137 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-5

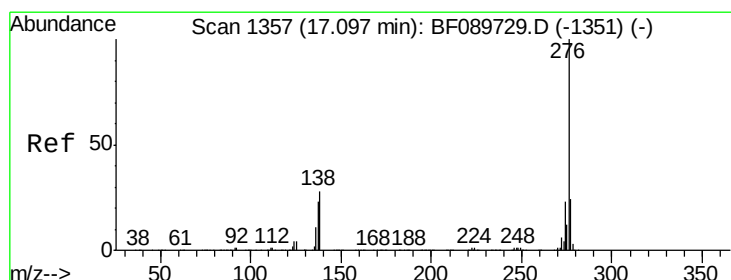
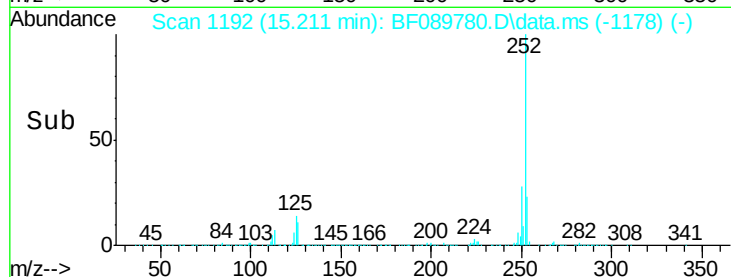
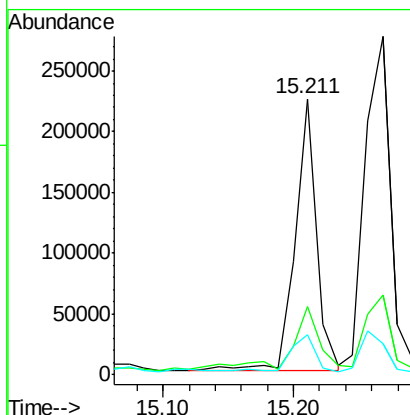
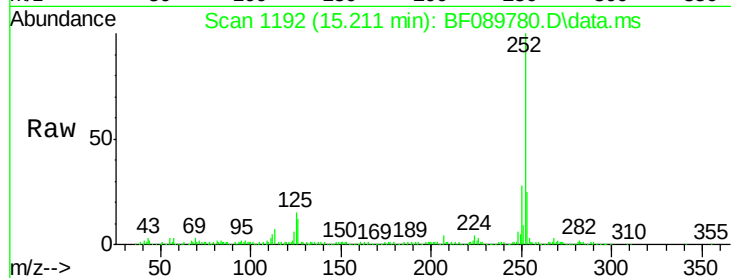
Tot Ion:252 Resp: 256853

Ion Ratio Lower Upper

252 100

253 24.6 17.8 26.8

125 14.6 11.7 17.5



#91

Benzo(g,h,i)perylene

Concen: 5.22 ng

RT: 16.994 min Scan# 1348

Delta R.T. -0.103 min

Lab File: BF089780.D

Acq: 17 Aug 2016 22:59

Tgt Ion:276 Resp: 245276

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 25.6 22.1 33.1

