

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086045.D
 Acq On : 4 Apr 2016 18:32
 Operator : UM/SJ
 Sample : H2180-04
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK2-2-20160401

Manual Integrations
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Sohil
 4/5/2016 6:39:52 PM

Quant Time: Apr 05 02:02:36 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	121944	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	445898	20.00	ng	-0.02
38) Acenaphthene-d10	9.80	164	196245	20.00	ng	-0.01
63) Phenanthrene-d10	11.28	188	314677	20.00	ng	-0.02
75) Chrysene-d12	13.92	240	229774	20.00	ng	-0.01
86) Perylene-d12	15.32	264	184507	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	1035217	145.11	ng	0.00
7) Phenol-d6	6.42	99	1358244	149.89	ng	0.00
23) Nitrobenzene-d5	7.33	82	782055	103.43	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	250065	135.76	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	1223672	103.68	ng	-0.01
78) Terphenyl-d14	12.87	244	795964	81.43	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.06	128	254432	11.34	ng	98
37) 2-Methylnaphthalene	8.76	142	34826	2.38	ng	100
48) Acenaphthylene	9.66	152	54182	2.76	ng	99
49) Dimethylphthalate	9.52	163	157670	10.84	ng	99
51) Acenaphthene	9.82	154	55318	4.73	ng	98
54) Dibenzofuran	10.01	168	64578	4.18	ng	96
57) Fluorene	10.34	166	81836	6.21	ng	98
70) Phenanthrene	11.31	178	745944	43.45	ng	99
71) Anthracene	11.36	178	221065	12.29	ng	99
72) Carbazole	11.52	167	110384	7.14	ng	99
74) Fluoranthene	12.50	202	846272	47.40	ng	90
77) Pyrene	12.72	202	661665	40.86	ng	98
80) Benzo(a)anthracene	13.91	228	341333	25.20	ng	97
82) Chrysene	13.94	228	242515	18.59	ng	98
85) Indeno(1,2,3-cd)pyrene	16.68	276	139544	13.18	ng	# 90
87) Benzo(b)fluoranthene	14.93	252	351228m	30.26	ng	
88) Benzo(k)fluoranthene	14.95	252	95486m	9.29	ng	
89) Benzo(a)pyrene	15.27	252	213295	20.74	ng	96
90) Dibenzo(a,h)anthracene	16.68	278	31888	3.85	ng	# 85
91) Benzo(a,h,i)perylene	17.08	276	132462	16.54	ng	98

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

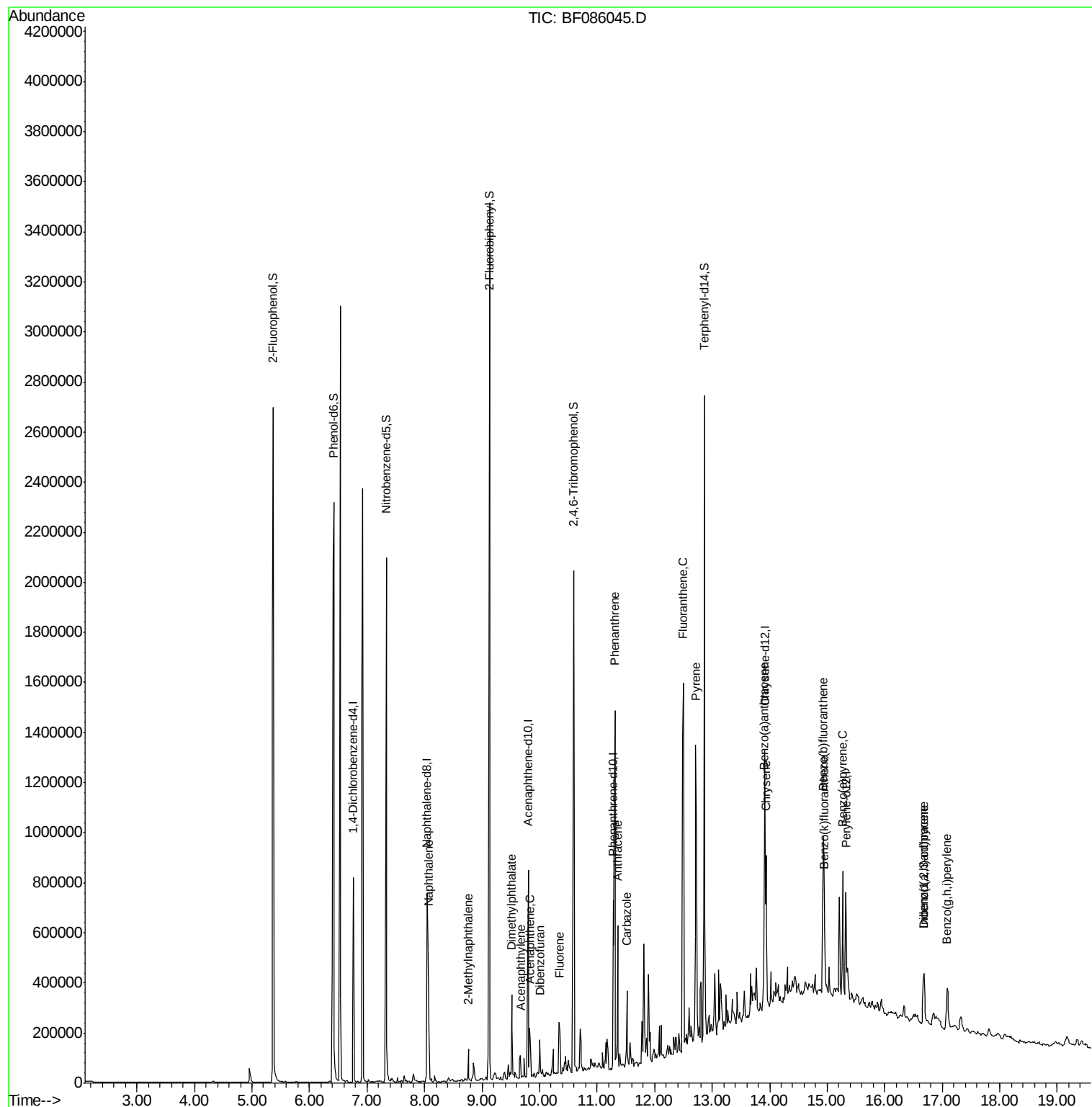
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
Data File : BF086045.D
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Sample : H2180-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

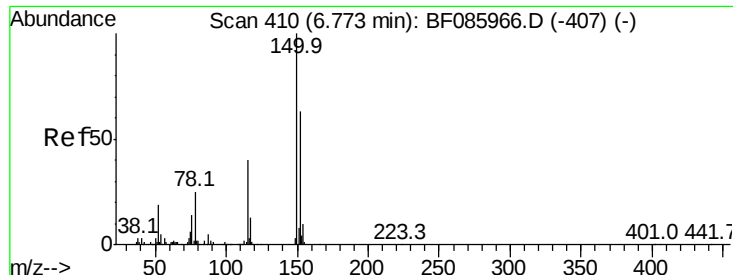
Instrument :
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TK2-2-20160401

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Quant Time: Apr 05 02:02:36 2016
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

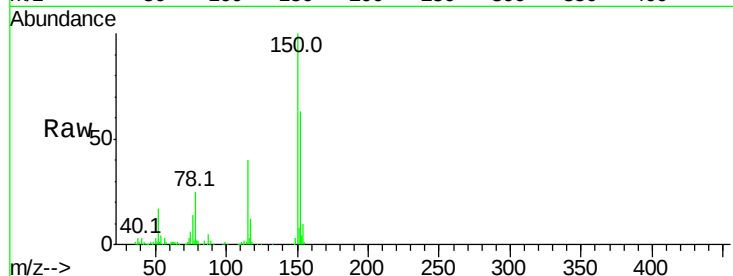
ClientSampleId :

TK2-2-20160401

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.2	186.2
115	62.4	47.0	70.6

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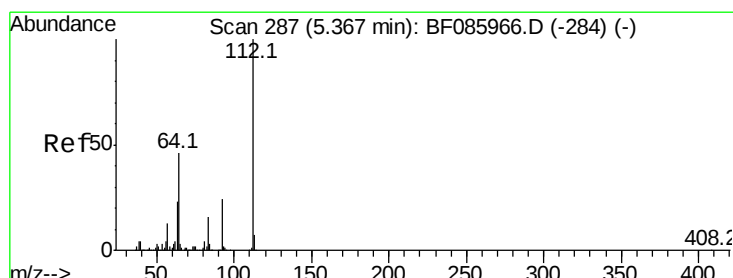
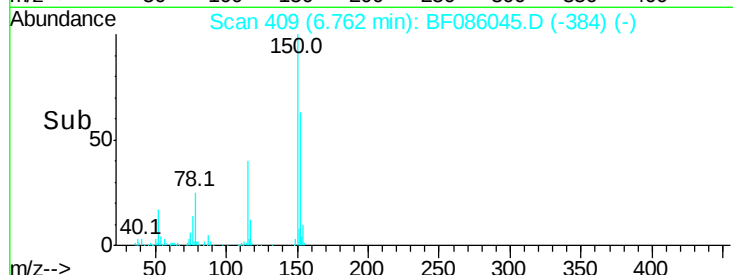
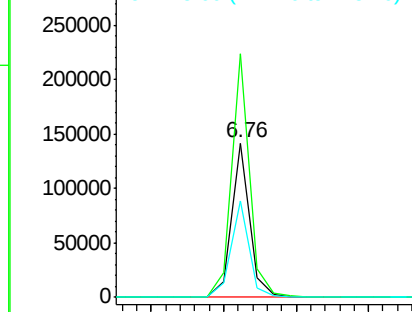


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 145.11 ng

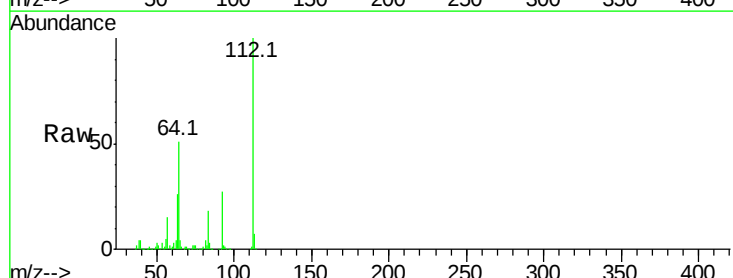
RT: 5.37 min Scan# 287

Delta R.T. 0.00 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.4	39.9	59.9
63	25.7	20.2	30.2

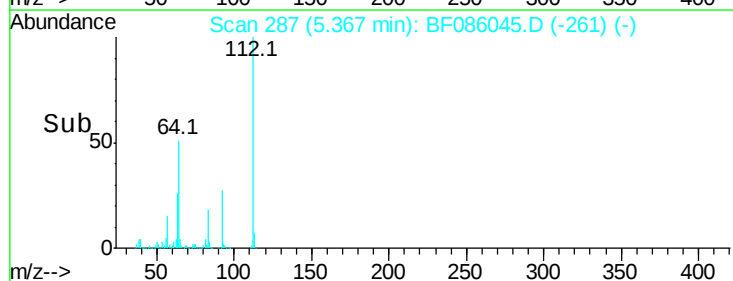
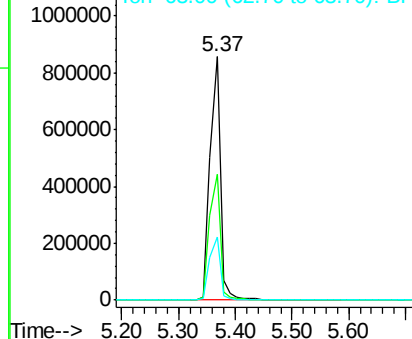


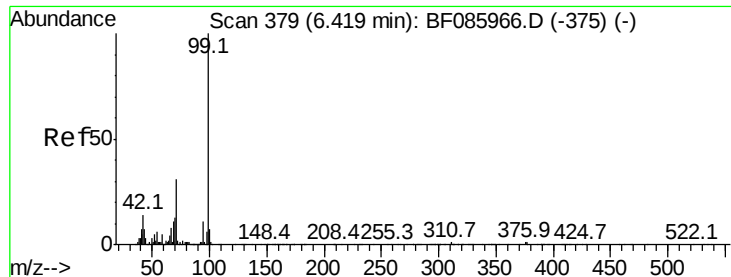
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 149.89 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

ClientSampleId :

TK2-2-20160401

Tot Ion: 99 Resp: 1358244

Ion Ratio Lower Upper

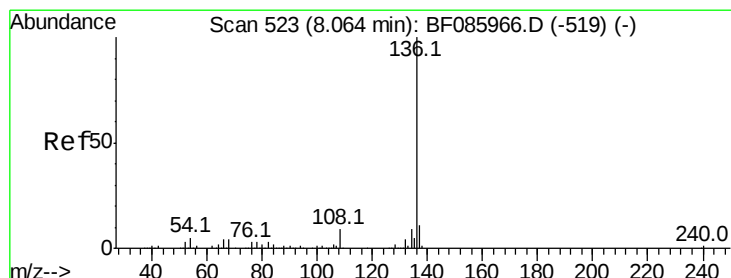
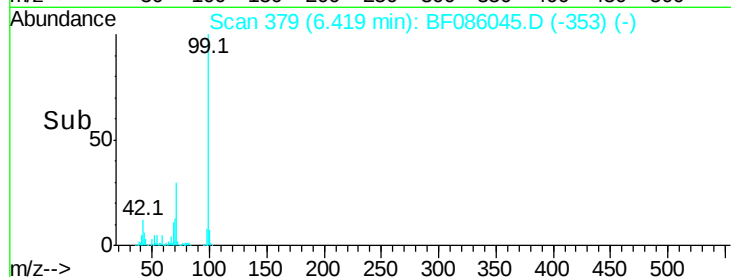
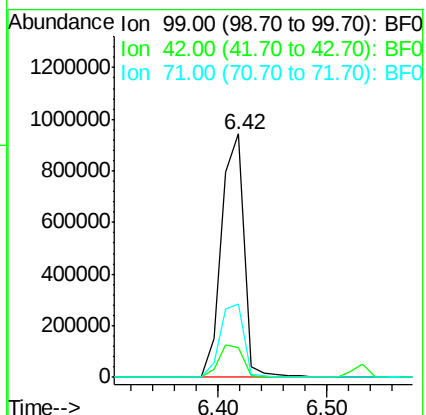
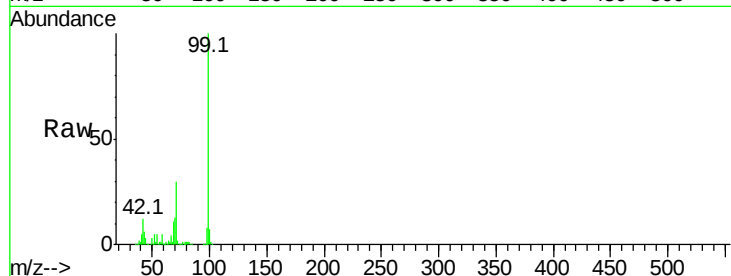
99 100

42 12.2 11.1 16.7

71 30.1 24.9 37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

Delta R.T. -0.02 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion: 136 Resp: 445898

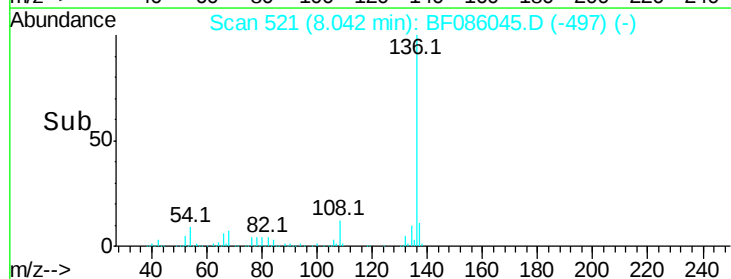
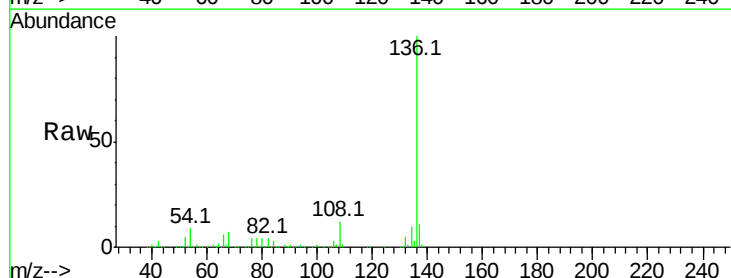
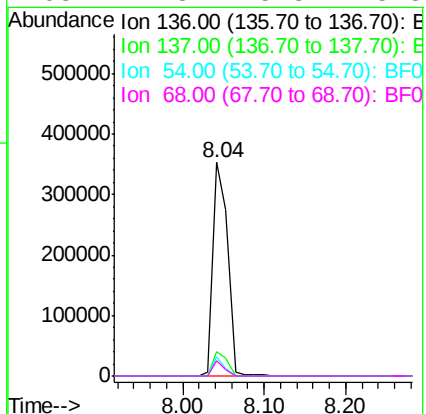
Ion Ratio Lower Upper

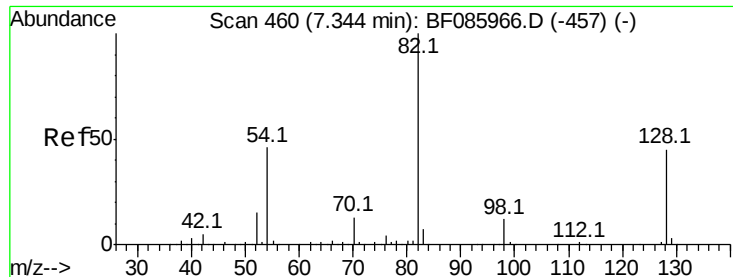
136 100

137 11.3 9.1 13.7

54 9.2 7.4 11.0

68 7.3 5.8 8.8





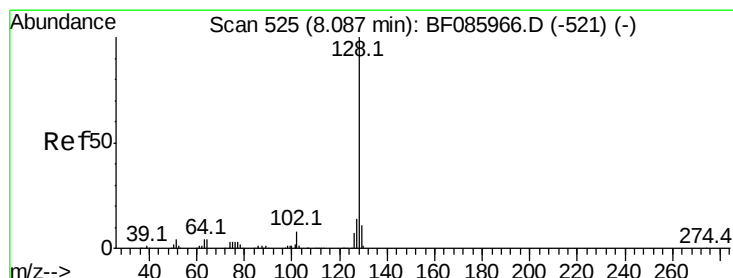
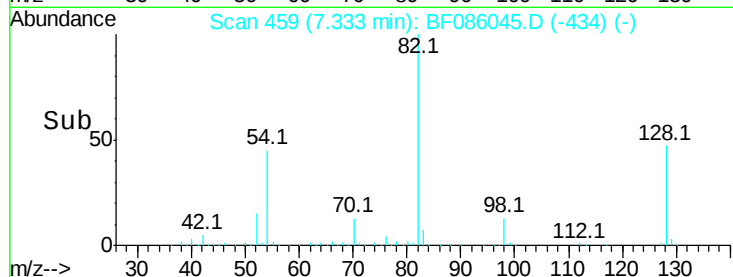
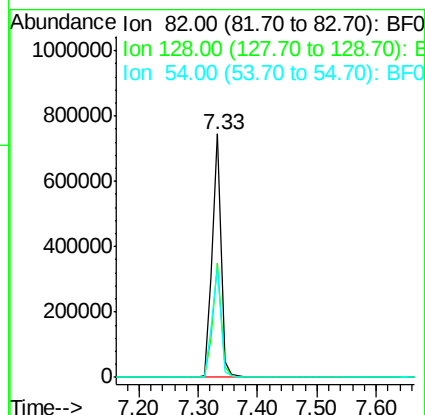
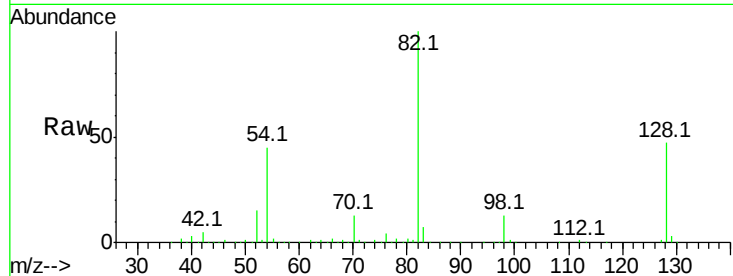
#23
 Nitrobenzene-d5
 Concen: 103.43 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: BF086045.D
 Acq: 4 Apr 2016 18:32

Instrument :
 BNA_F
 ClientSampleId :
 TK2-2-20160401

Tot Ion	Ratio	Resp	Lower	Upper
82	100	782055		
128	47.0		41.8	62.8
54	44.9		33.4	50.0

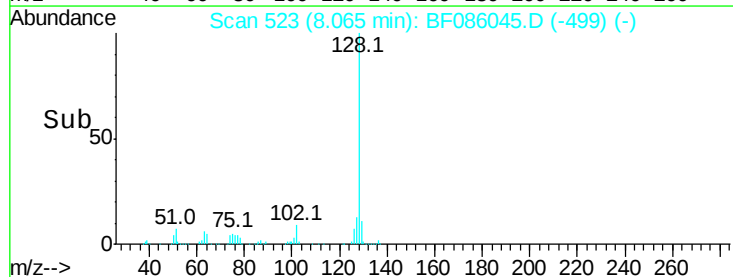
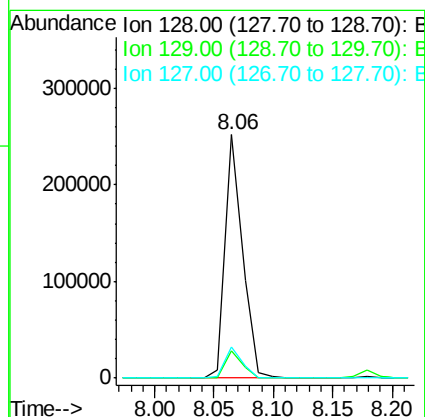
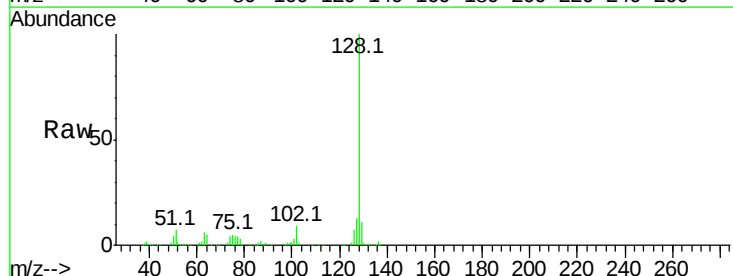
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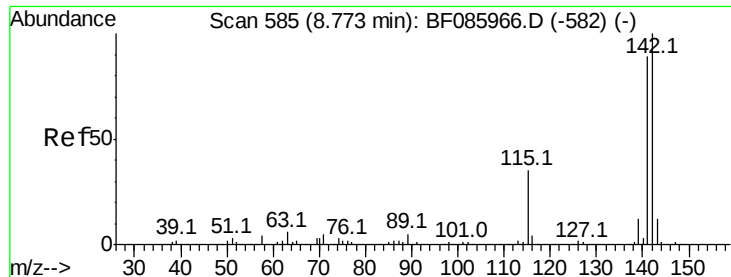
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#31
 Naphthalene
 Concen: 11.34 ng
 RT: 8.06 min Scan# 523
 Delta R.T. -0.02 min
 Lab File: BF086045.D
 Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	254432		
129	11.1		9.4	14.0
127	13.0		11.0	16.6





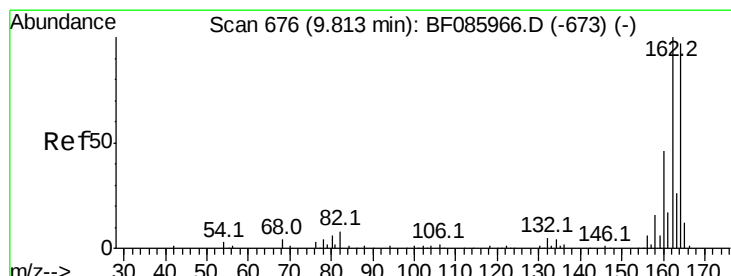
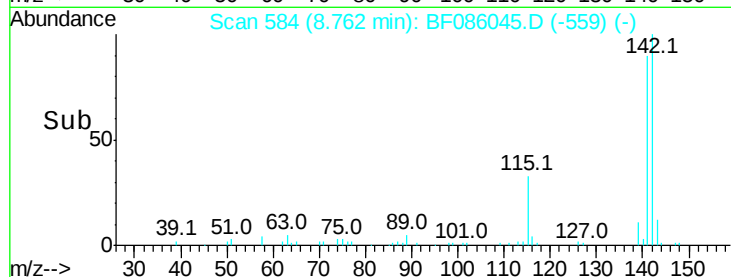
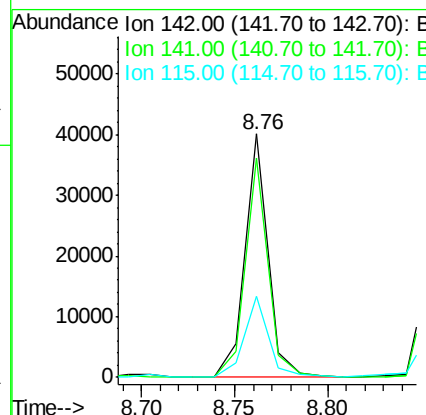
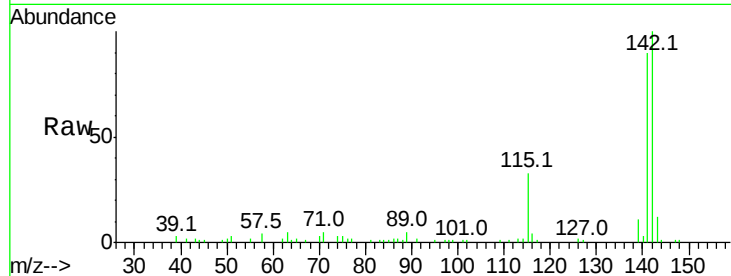
#37
2-Methylnaphthalene
Concen: 2.38 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Instrument :
BNA_F
ClientSampleId :
TK2-2-20160401

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.6	107.4
115	33.5	26.8	40.2

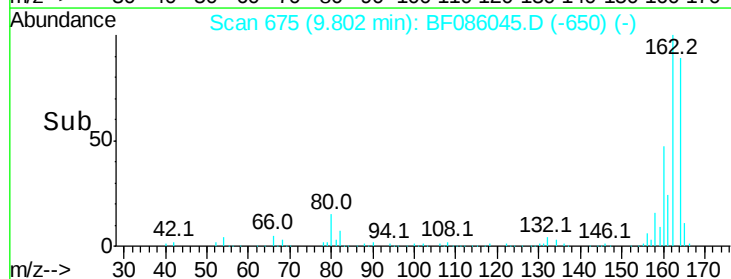
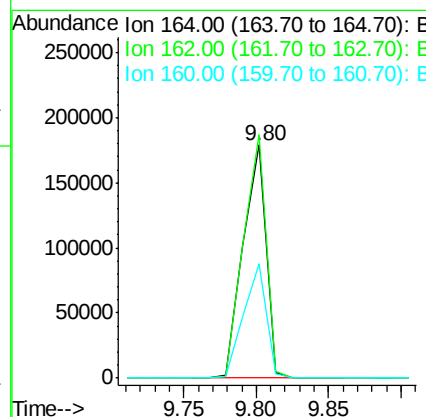
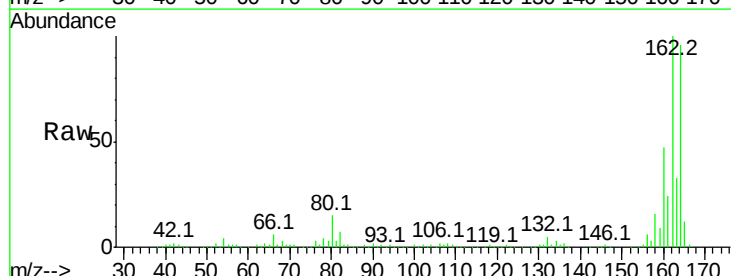
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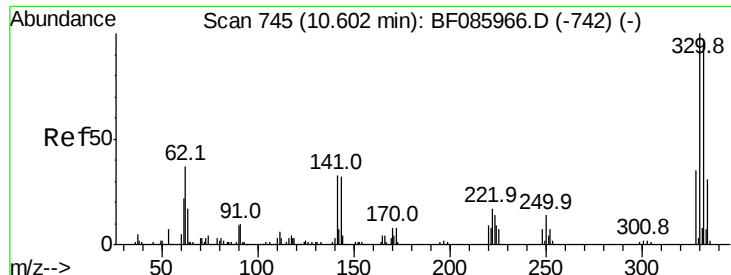
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.1	123.1
160	48.9	37.4	56.2





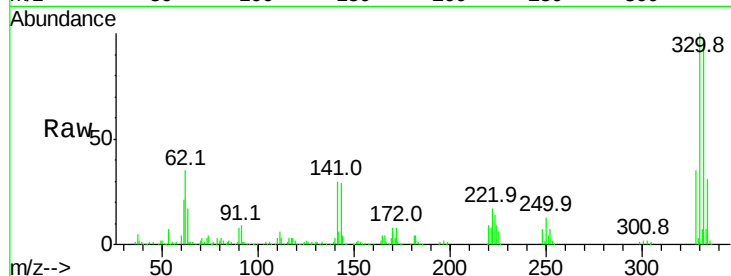
#41
 2,4,6-Tribromophenol
 Concen: 135.76 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF086045.D
 Acq: 4 Apr 2016 18:32

Instrument :
 BNA_F
 ClientSampleId :
 TK2-2-20160401

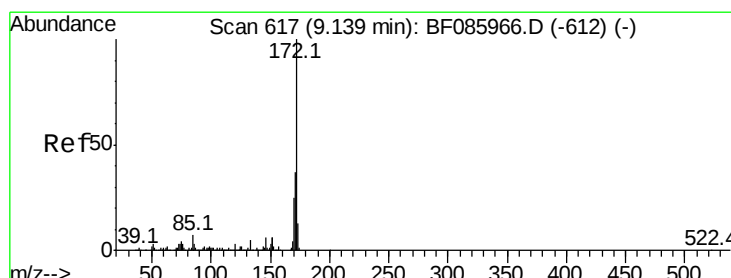
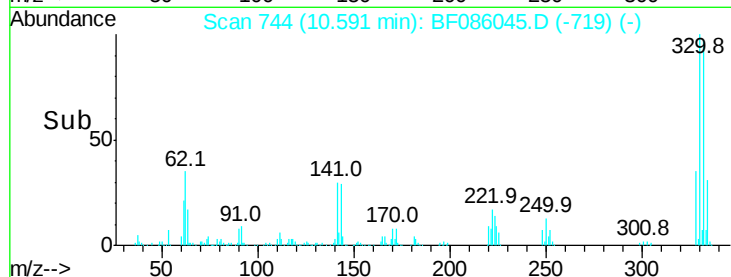
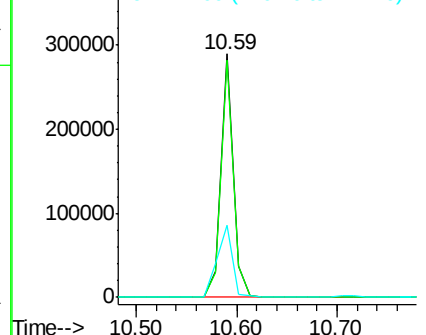
Tot Ion	Ratio	Resp	Lower	Upper
330	100	250065		
332	97.3	78.2	117.2	
141	36.4	31.5	47.3	

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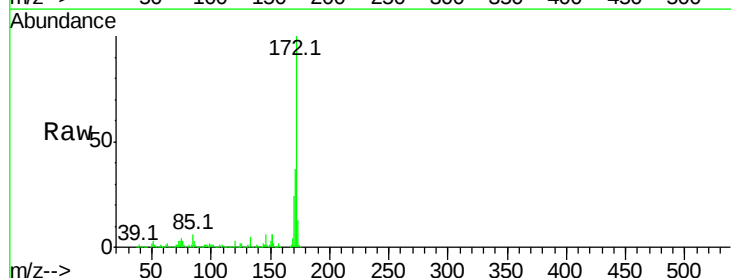


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

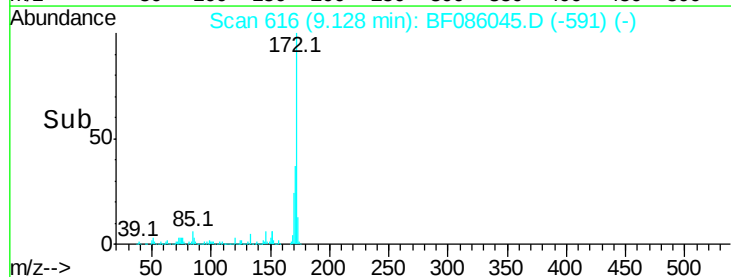
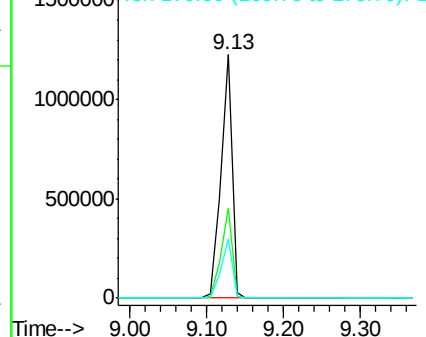


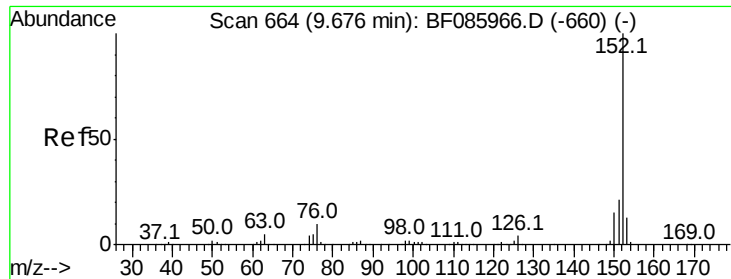
#44
 2-Fluorobiphenyl
 Concen: 103.68 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF086045.D
 Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1223672		
171	36.8	29.4	44.2	
170	24.5	19.8	29.6	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.76 ng

RT: 9.66 min Scan# 663

Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

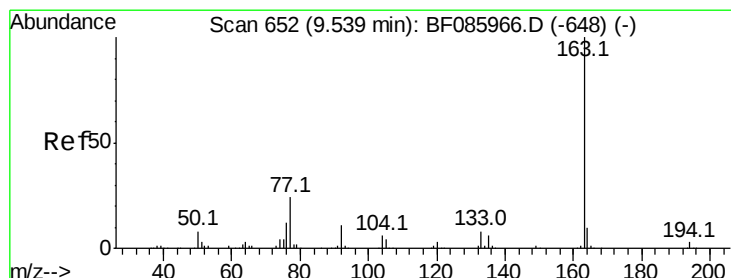
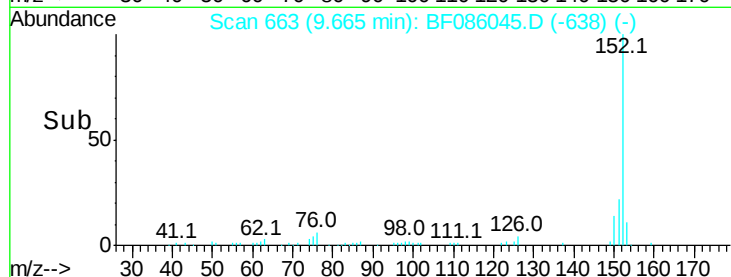
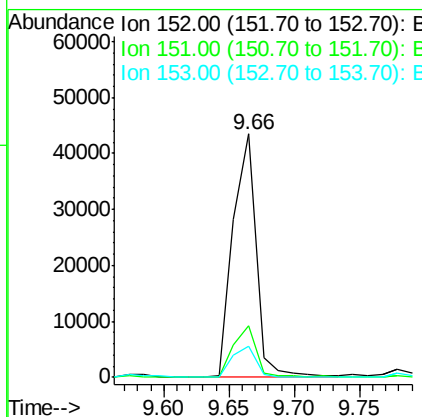
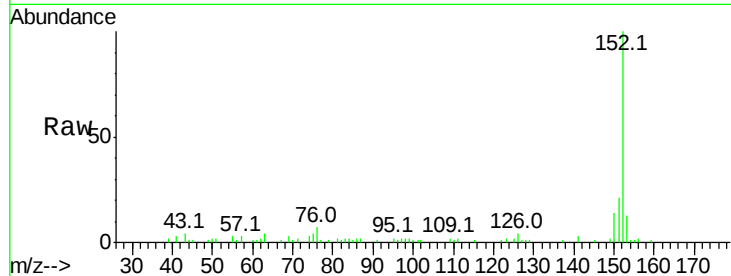
ClientSampleId :

TK2-2-20160401

Tot Ion:	152	Resp:	54182
Ion Ratio	Lower	Upper	
152	100		
151	21.3	16.8	25.2
153	12.8	10.9	16.3

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#49

Dimethylphthalate

Concen: 10.84 ng

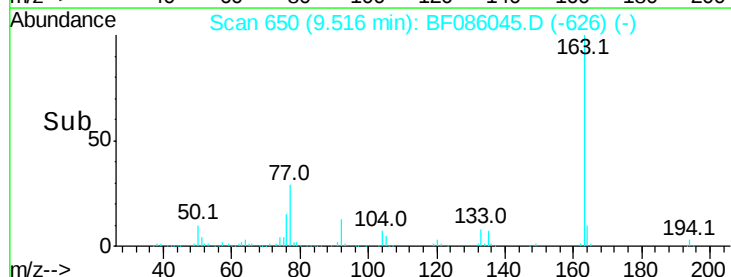
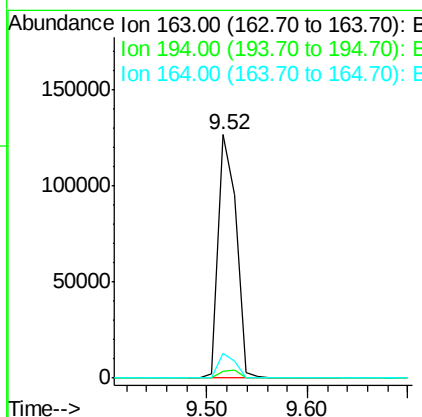
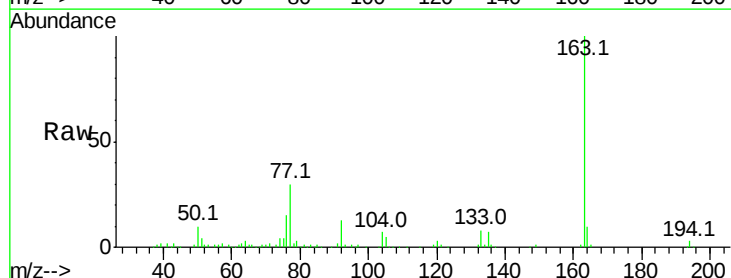
RT: 9.52 min Scan# 650

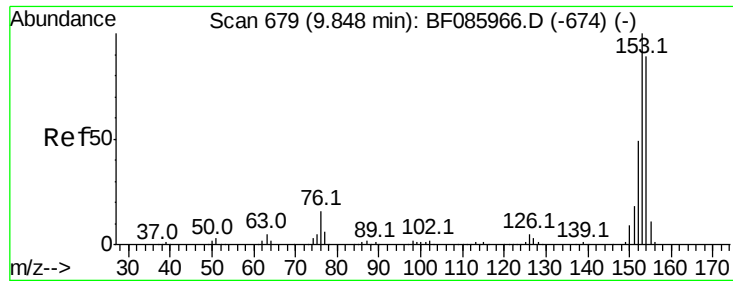
Delta R.T. -0.02 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion:	163	Resp:	157670
Ion Ratio	Lower	Upper	
163	100		
194	2.9	2.9	4.3
164	10.4	8.3	12.5





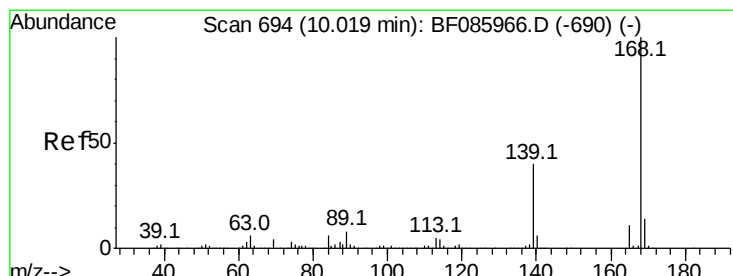
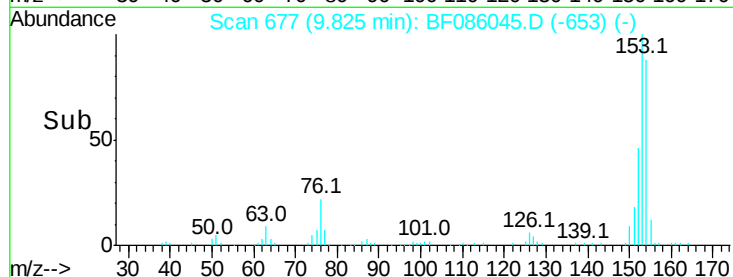
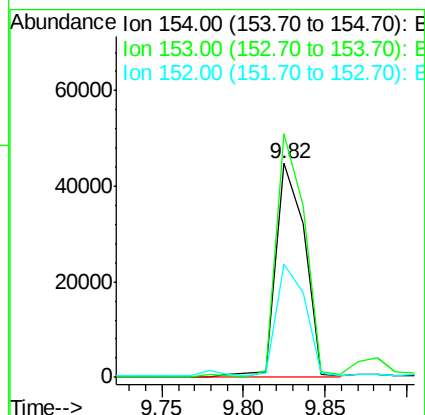
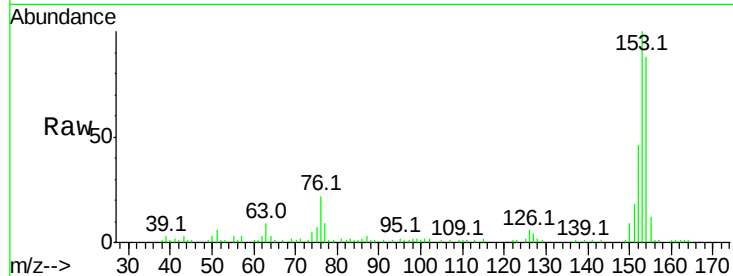
#51
Acenaphthene
Concen: 4.73 ng
RT: 9.82 min Scan# 677
Delta R.T. -0.02 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Instrument :
BNA_F
ClientSampleId :
TK2-2-20160401

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.9	90.1	135.1
152	52.8	44.2	66.2

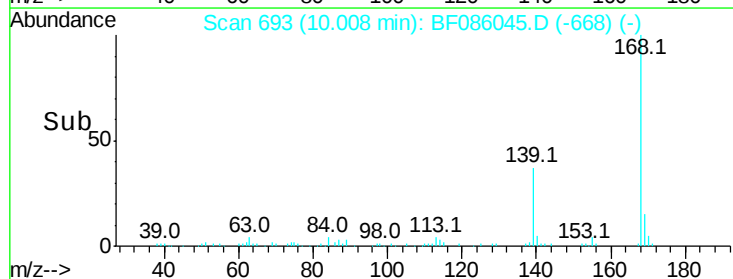
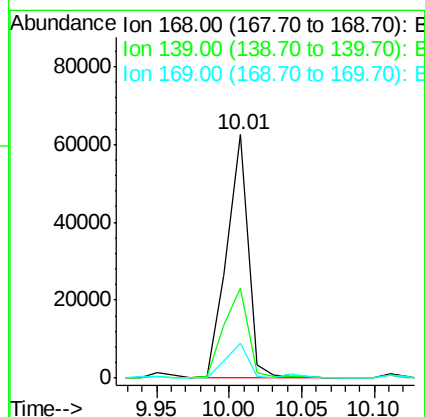
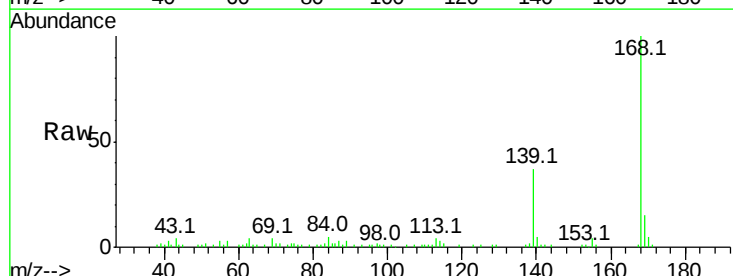
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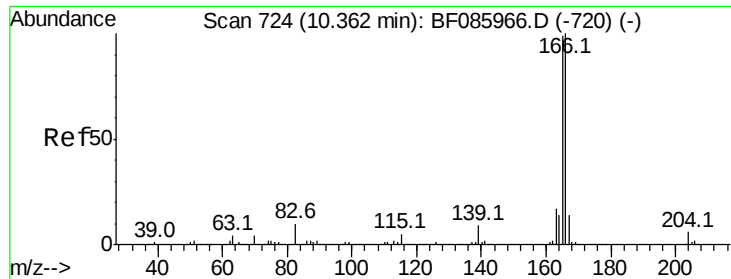
Sohil
4/5/2016 6:39:52 PM



#54
Dibenzofuran
Concen: 4.18 ng
RT: 10.01 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.8	31.9	47.9
169	14.6	11.0	16.6





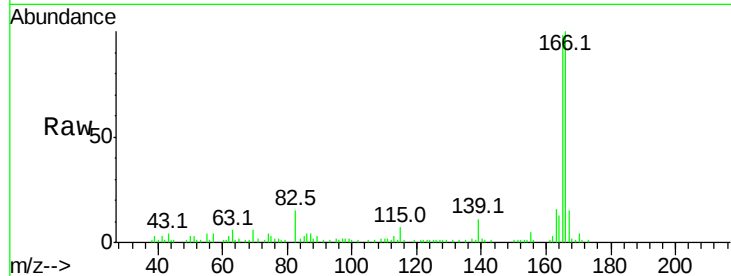
#57
Fluorene
 Concen: 6.21 ng
 RT: 10.34 min Scan# 722
 Delta R.T. -0.02 min
 Lab File: BF086045.D
 Acq: 4 Apr 2016 18:32

Instrument :
 BNA_F
 ClientSampleId :
 TK2-2-20160401

Tot Ion	Ratio	Resp	Lower	Upper
166	100	81836		
165	97.6		79.4	119.0
167	14.9		11.0	16.4

Manual Integrations
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 4/5/2016 6:39:52 PM

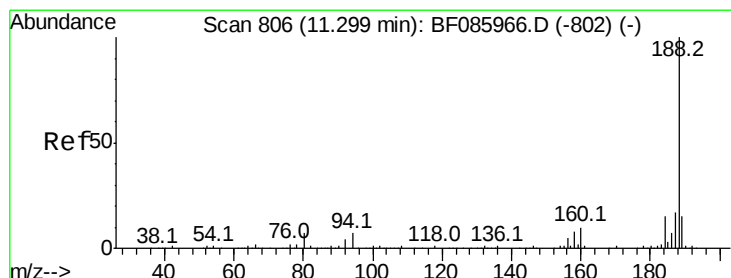
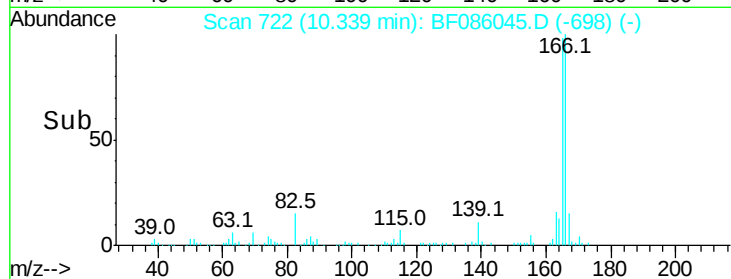
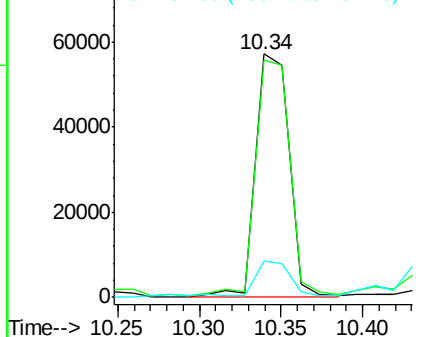


Abundance

Ion 166.00 (165.70 to 166.70): E

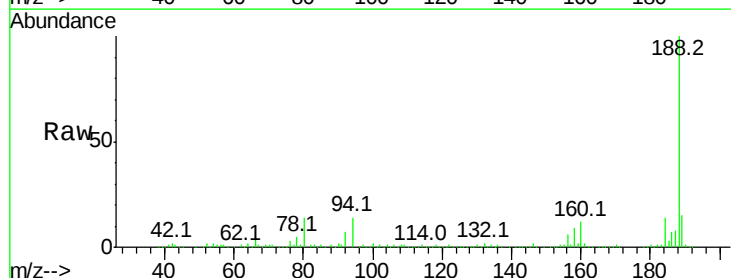
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.28 min Scan# 804
 Delta R.T. -0.02 min
 Lab File: BF086045.D
 Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	314677		
94	13.5		5.4	8.0#
80	14.4		5.5	8.3#

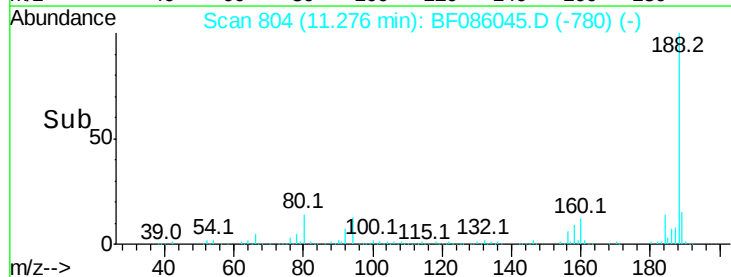
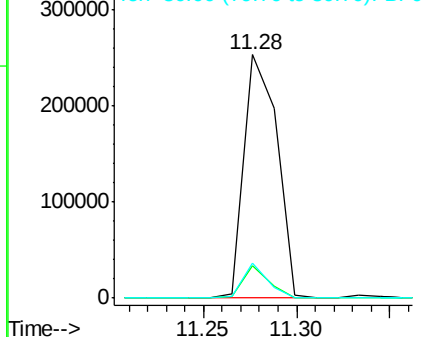


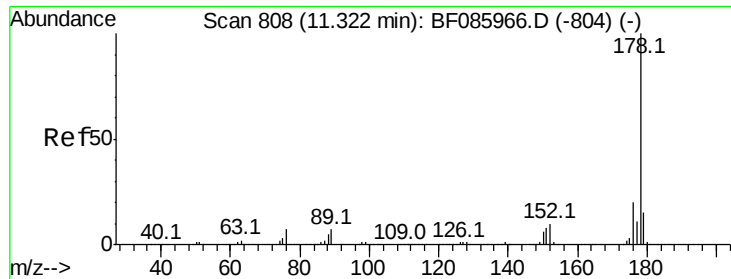
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





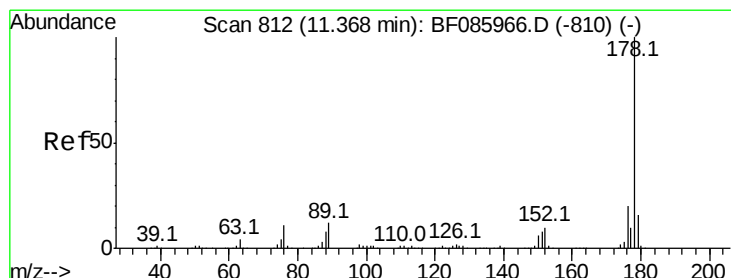
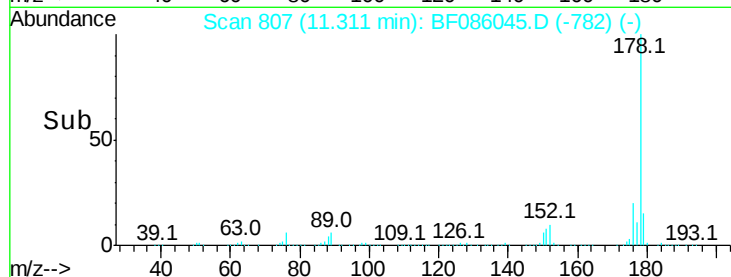
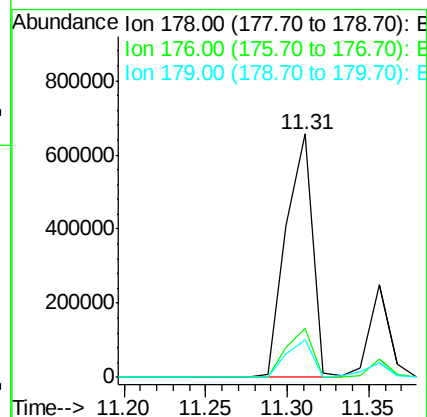
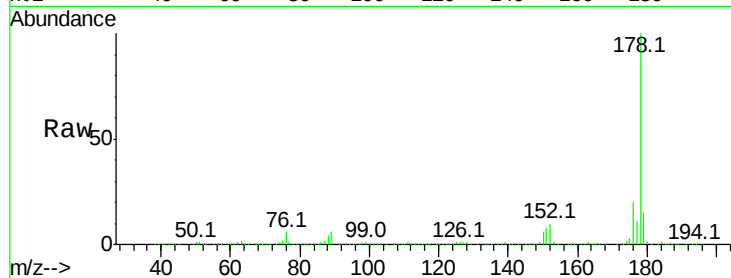
#70
Phenanthrene
Concen: 43.45 ng
RT: 11.31 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Instrument :
BNA_F
ClientSampleId :
TK2-2-20160401

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.3	24.5
179	15.4	12.6	18.8

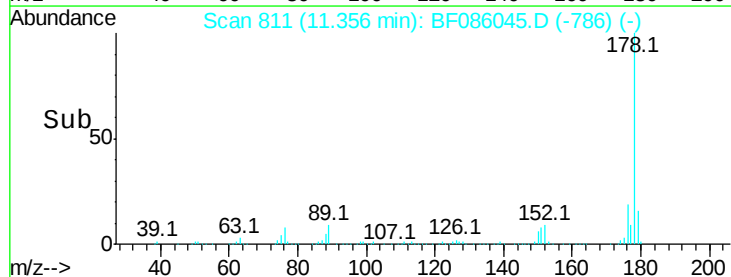
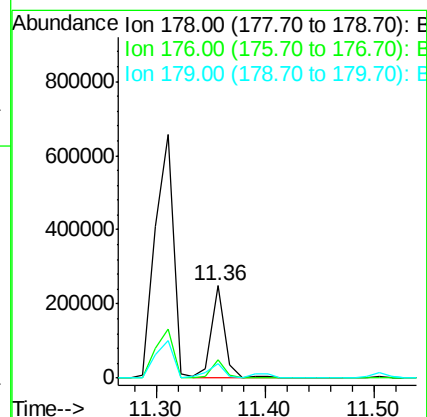
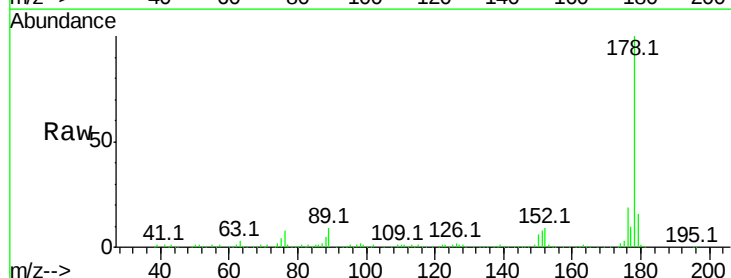
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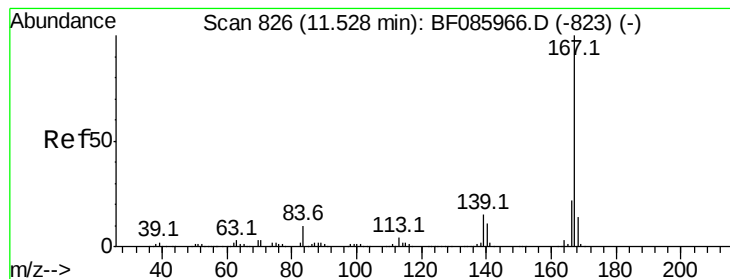
Sohil
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#71
Anthracene
Concen: 12.29 ng
RT: 11.36 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.9	23.9
179	15.7	13.0	19.4





#72

Carbazole

Concen: 7.14 ng

RT: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

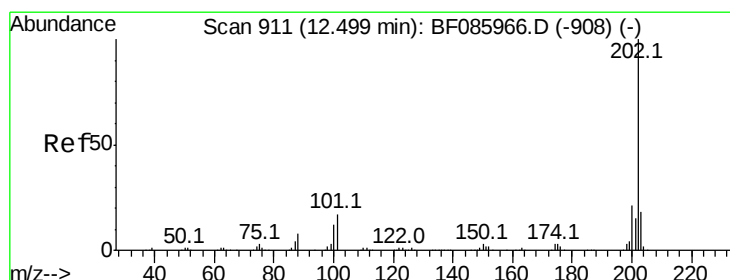
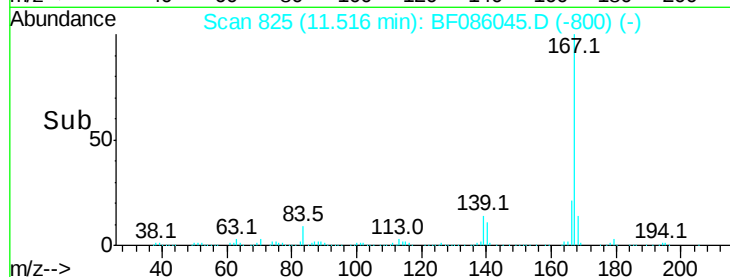
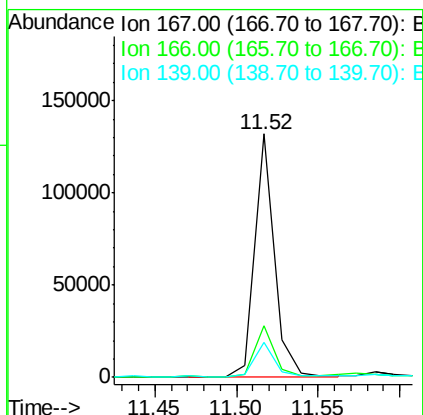
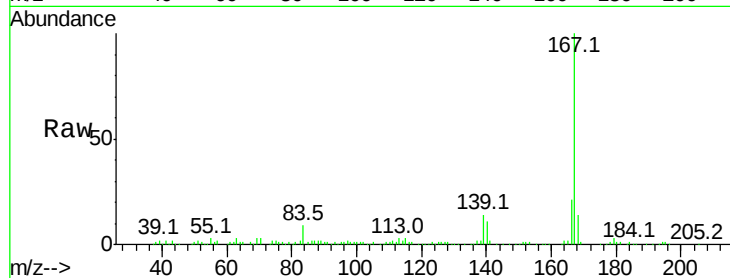
ClientSampleId :

TK2-2-20160401

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Tot Ion:	167	Resp:	110384
Ion Ratio	Lower	Upper	
167	100		
166	21.3	17.8	26.8
139	14.4	11.6	17.4



#74

Fluoranthene

Concen: 47.40 ng

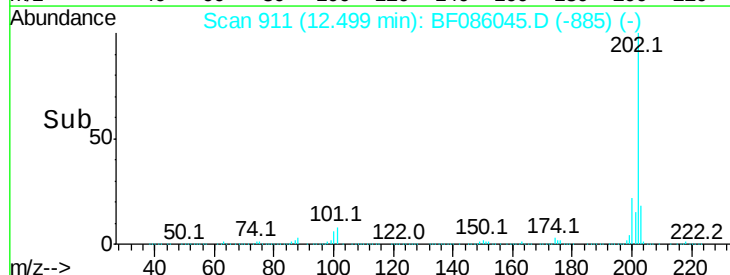
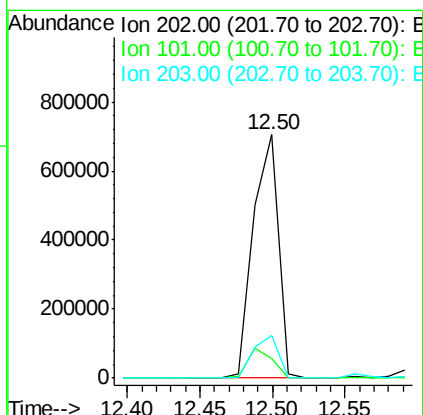
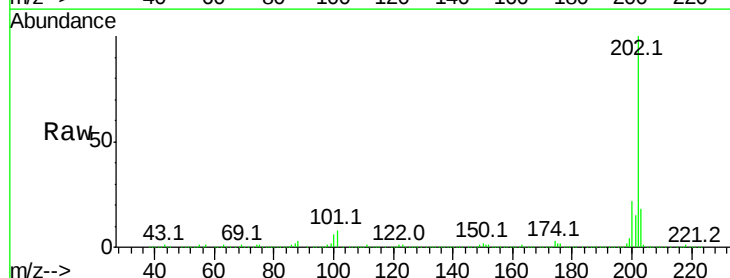
RT: 12.50 min Scan# 911

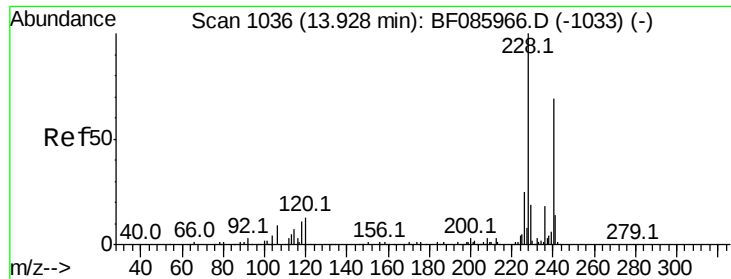
Delta R.T. 0.00 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion:	202	Resp:	846272
Ion Ratio	Lower	Upper	
202	100		
101	7.9	0.0	36.6
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

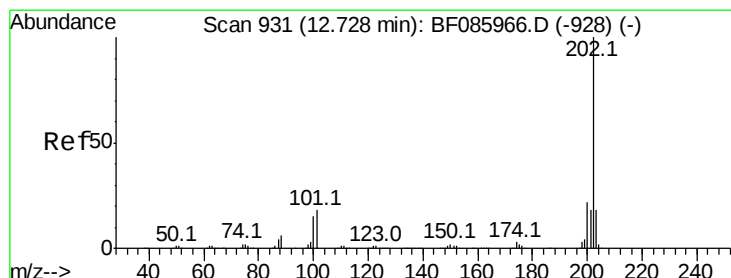
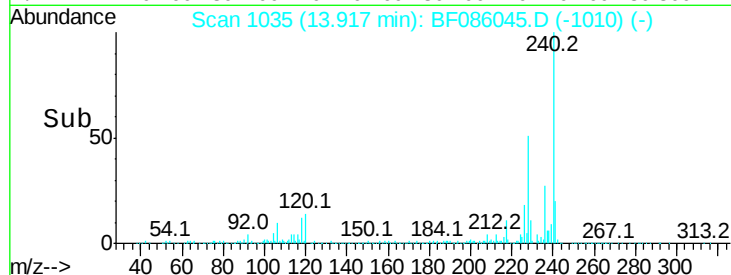
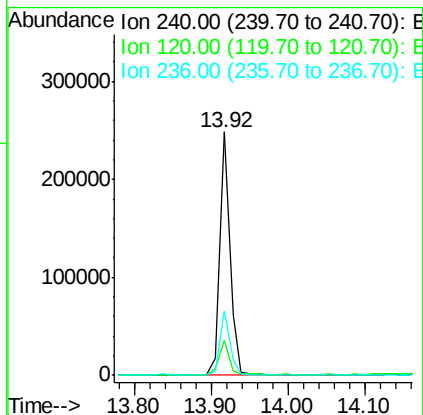
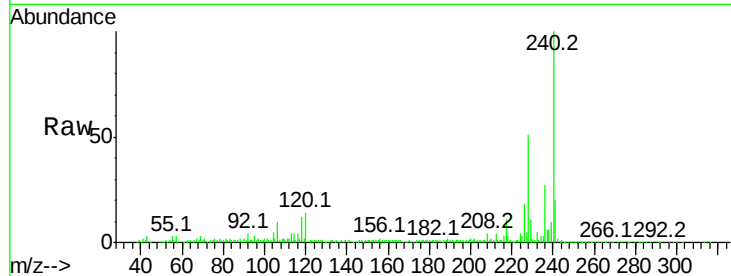
ClientSampleId :

TK2-2-20160401

Tot Ion:	240	Resp:	229774
Ion Ratio	Lower	Upper	
240	100		
120	14.5	13.8	20.8
236	26.7	20.6	30.8

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#77

Pyrene

Concen: 40.86 ng

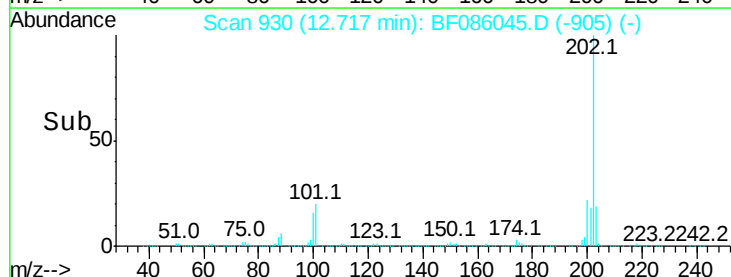
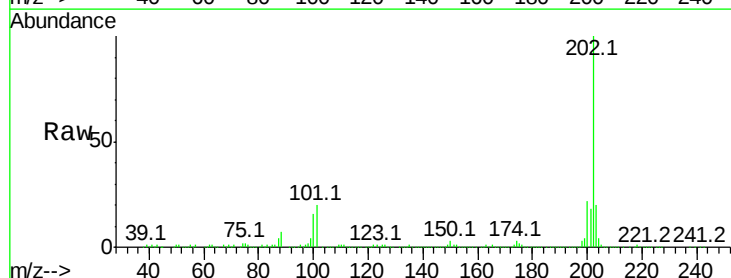
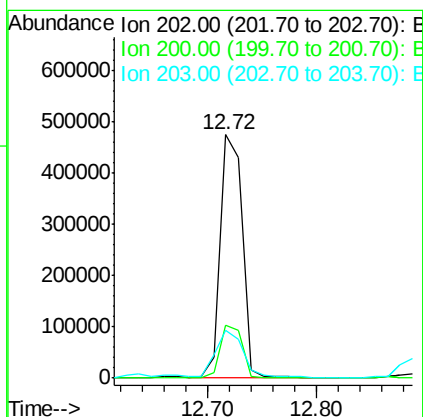
RT: 12.72 min Scan# 930

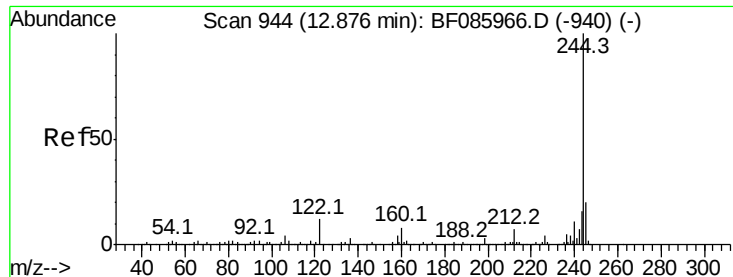
Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion:	202	Resp:	661665
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.6	26.4
203	19.6	14.0	21.0





#78

Terphenyl-d14

Concen: 81.43 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

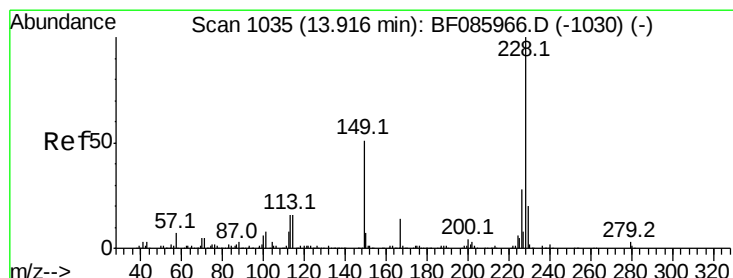
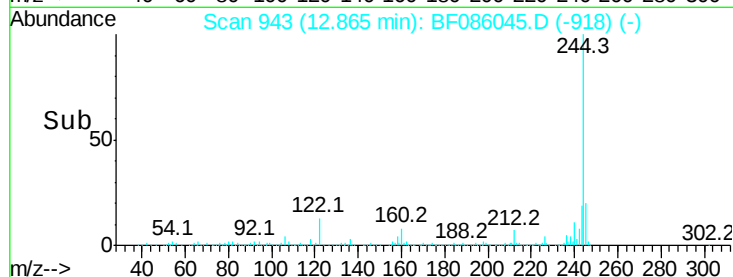
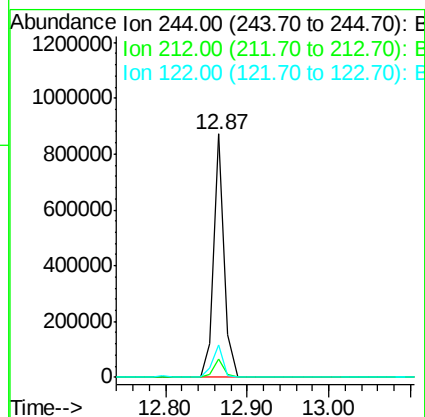
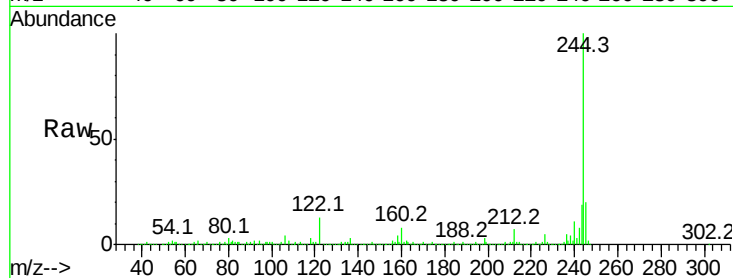
ClientSampleId :

TK2-2-20160401

Tot Ion:	244	Resp:	795964
Ion Ratio	Lower	Upper	
244	100		
212	7.5	6.1	9.1
122	13.1	10.2	15.4

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#80

Benzo(a)anthracene

Concen: 25.20 ng

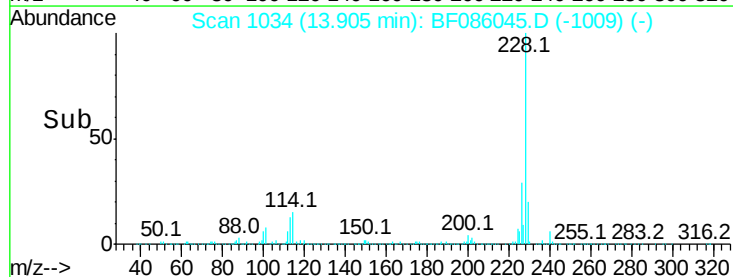
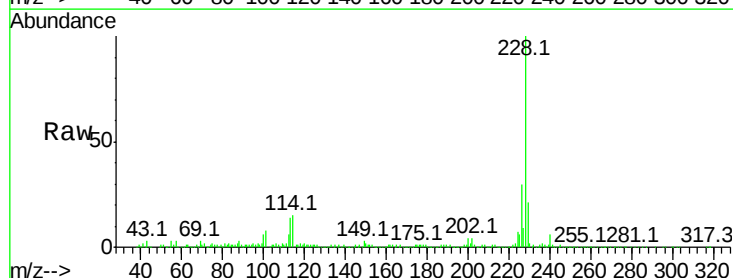
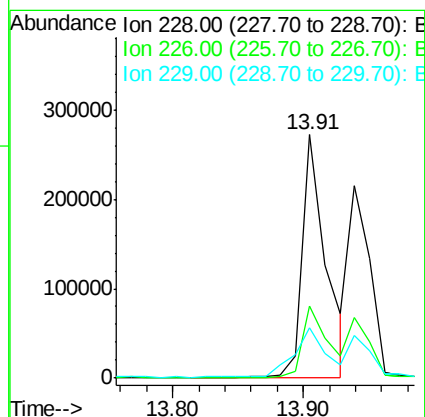
RT: 13.91 min Scan# 1034

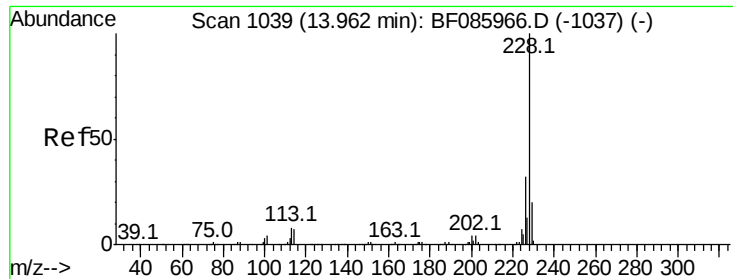
Delta R.T. -0.01 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion:	228	Resp:	341333
Ion Ratio	Lower	Upper	
228	100		
226	29.7	22.1	33.1
229	20.9	16.2	24.4





#82

Chrysene

Concen: 18.59 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.02 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

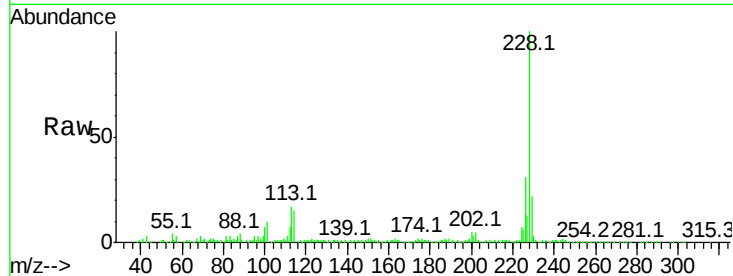
ClientSampleId :

TK2-2-20160401

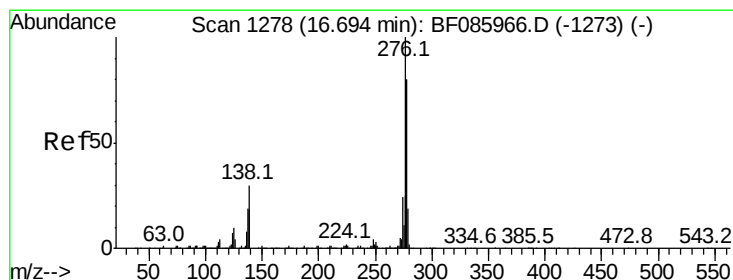
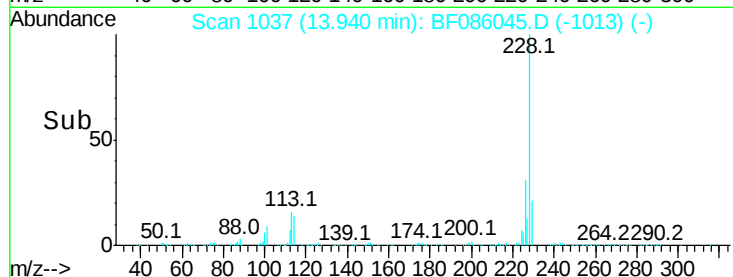
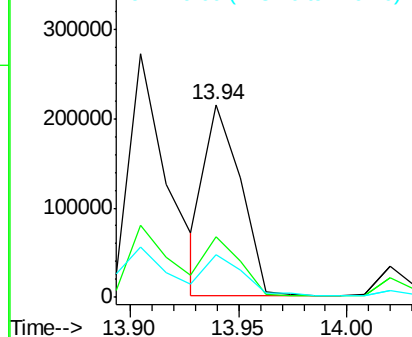
Tot Ion:	228	Resp:	242515
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	21.8	15.7	23.5

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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

Indeno(1,2,3-cd)pyrene

Concen: 13.18 ng

RT: 16.68 min Scan# 1277

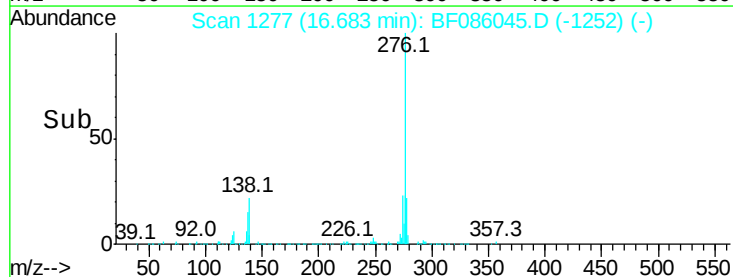
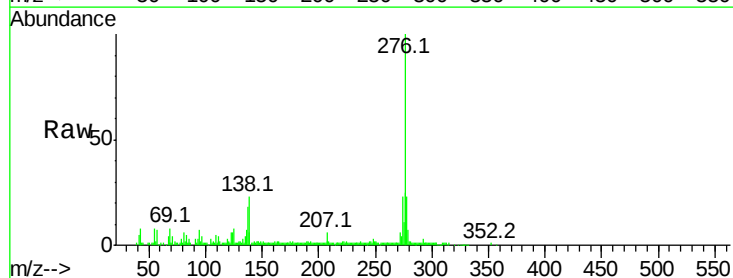
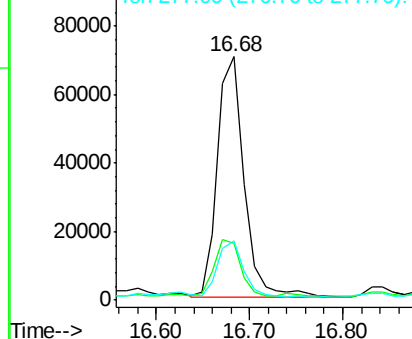
Delta R.T. -0.01 min

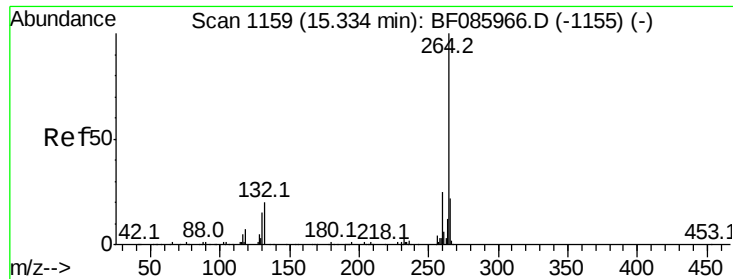
Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion:	276	Resp:	139544
Ion Ratio	Lower	Upper	
276	100		
138	23.3	24.2	36.4#
277	22.2	20.0	30.0

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





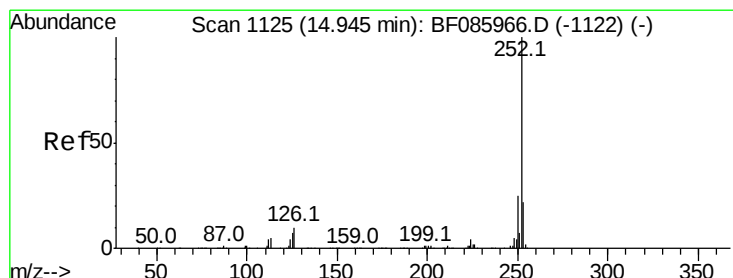
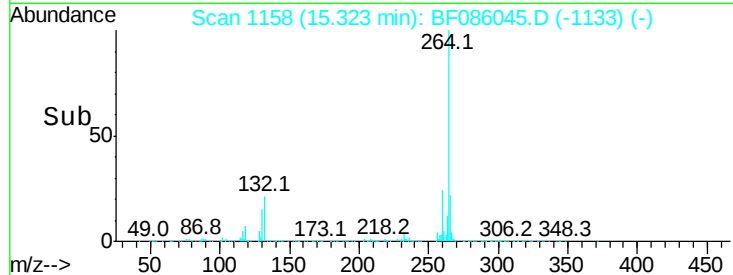
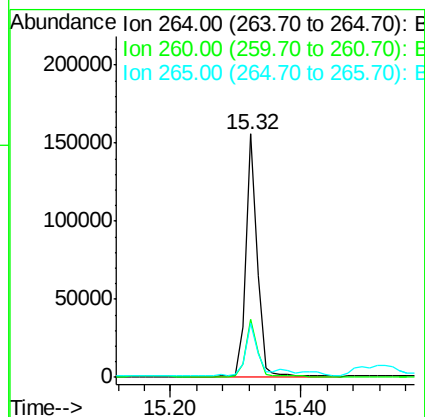
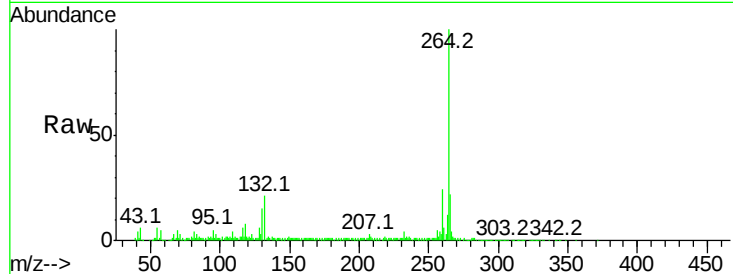
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 1158
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Instrument :
BNA_F
ClientSampleId :
TK2-2-20160401

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	22.1	17.2	25.8

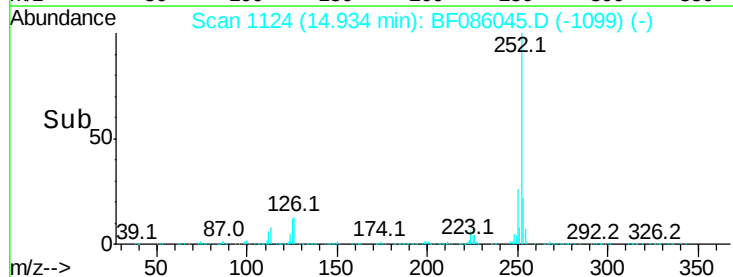
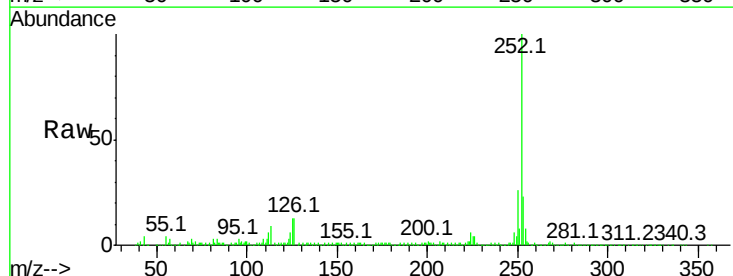
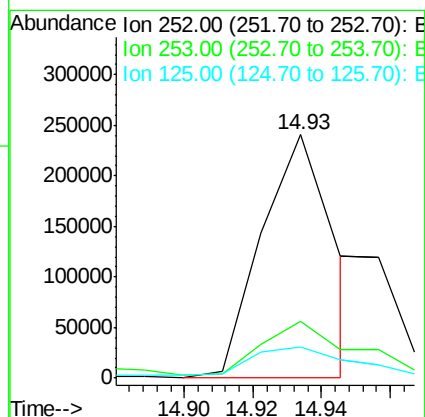
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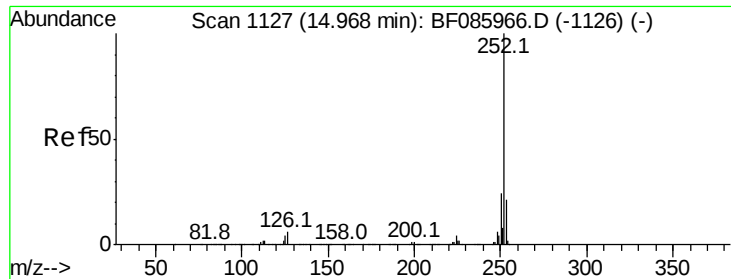
Sohil
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#87
Benzo(b)fluoranthene
Concen: 30.26 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.6	26.4
125	12.7	10.3	15.5





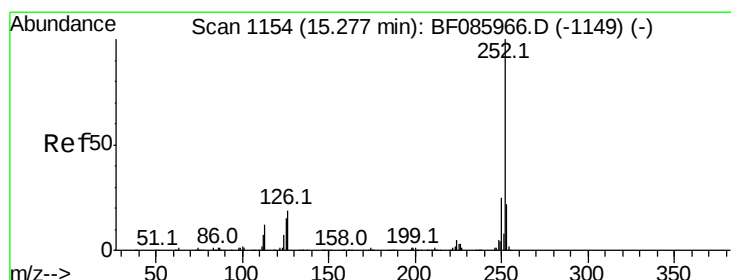
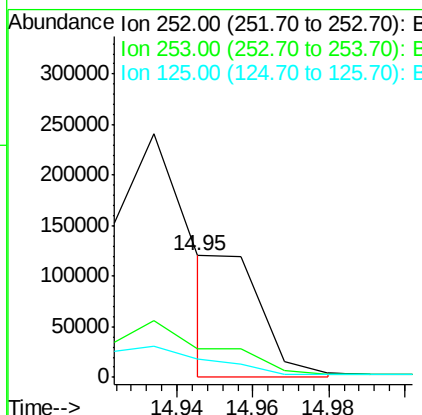
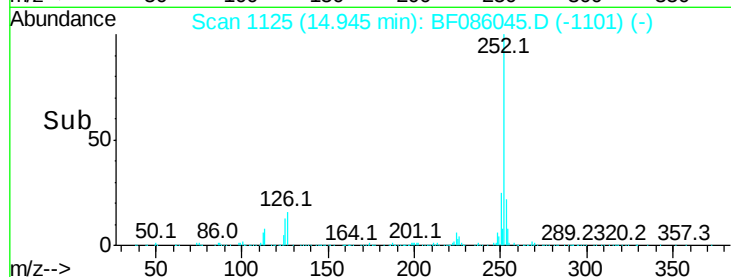
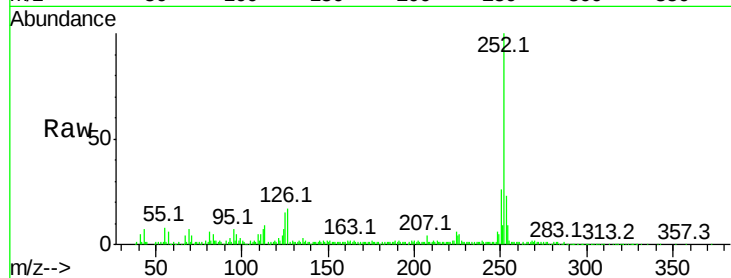
#88
Benzo(k)fluoranthene
Concen: 9.29 ng/mL
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Instrument :
BNA_F
ClientSampleId :
TK2-2-20160401

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	15.3	7.7	11.5

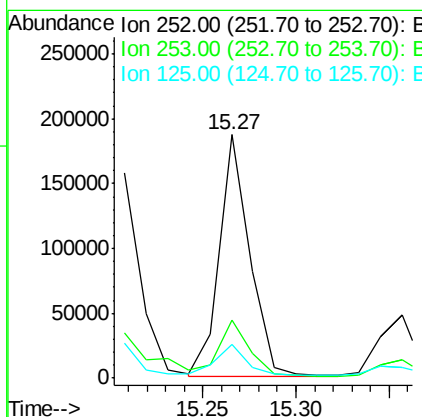
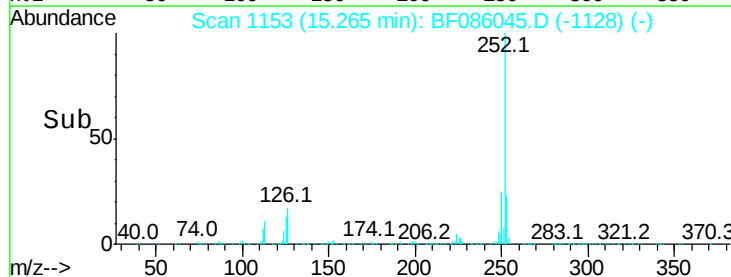
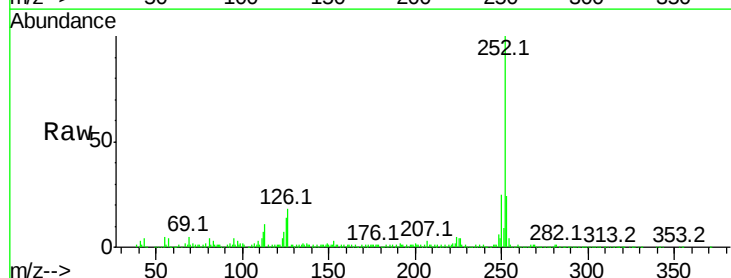
Manual Integrations
APPROVED

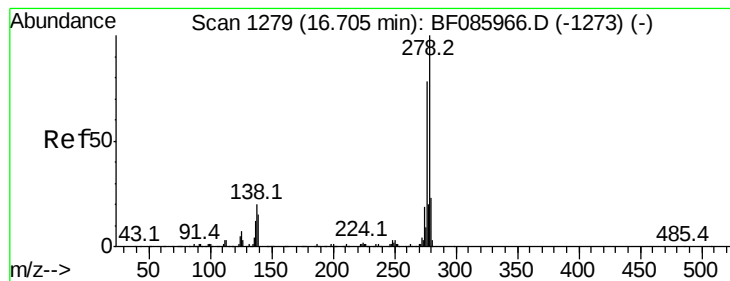
Sohil
4/5/2016 6:39:52 PM



#89
Benzo(a)pyrene
Concen: 20.74 ng/mL
RT: 15.27 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF086045.D
Acq: 4 Apr 2016 18:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.4	26.0
125	14.0	10.3	15.5





#90

Dibenzo(a,h)anthracene

Concen: 3.85 ng

RT: 16.68 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Instrument :

BNA_F

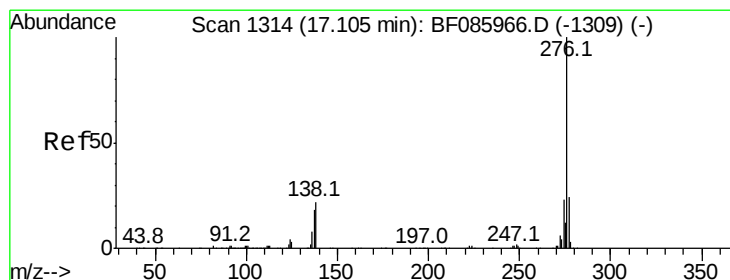
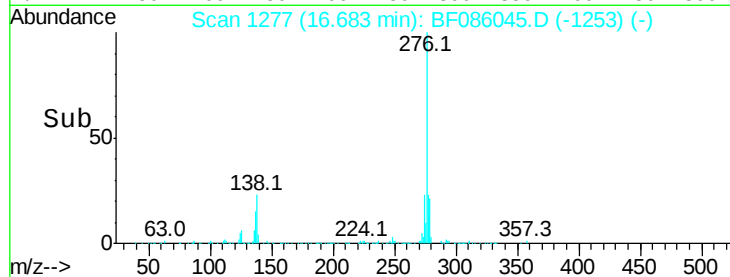
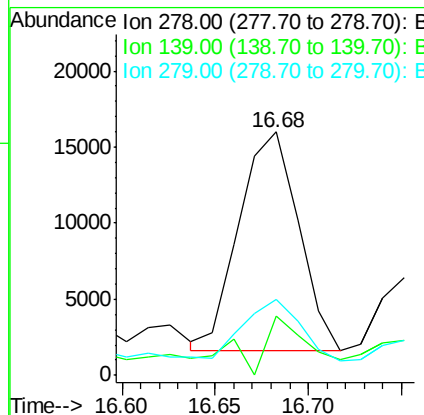
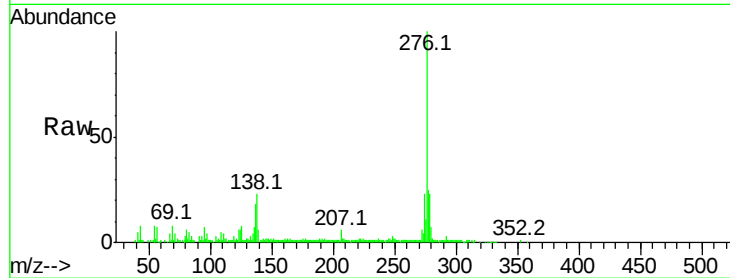
ClientSampleId :

TK2-2-20160401

Tot Ion:	278	Resp:	31888
Ion Ratio	Lower	Upper	
278	100		
139	24.4	14.4	21.6#
279	31.2	19.1	28.7#

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:52 PM



#91

Benzo(g,h,i)perylene

Concen: 16.54 ng

RT: 17.08 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF086045.D

Acq: 4 Apr 2016 18:32

Tgt Ion:	276	Resp:	132462
Ion Ratio	Lower	Upper	
276	100		
277	24.9	18.8	28.2
138	29.0	22.6	34.0

