

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060315\
 Data File : BF079696.D
 Acq On : 4 Jun 2015 9:18
 Operator : TP/IZ
 Sample : G2429-10
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TS16.4(3)

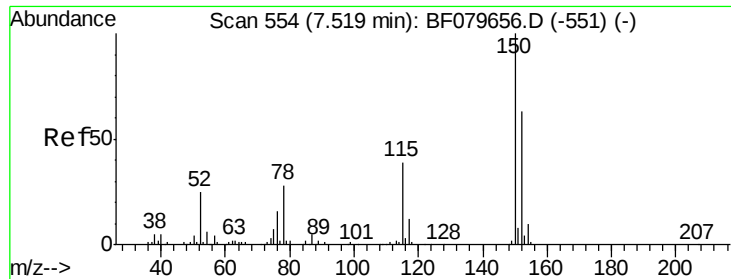
Manual Integrations
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Quant Time: Jun 04 15:29:37 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 04 14:55:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	80231	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	301816	20.00	ng	0.00
38) Acenaphthene-d10	10.59	164	161108	20.00	ng	0.00
63) Phenanthrene-d10	12.11	188	307856	20.00	ng	-0.02
75) Chrysene-d12	15.17	240	320158m	20.00	ng	-0.22
86) Perylene-d12	17.17	264	306119m	20.00	ng	-0.32
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	427019	96.53	ng	0.00
7) Phenol-d6	7.11	99	538966	92.92	ng	0.00
23) Nitrobenzene-d5	8.08	82	266914	45.36	ng	0.00
41) 2,4,6-Tribromophenol	11.39	330	120354	90.51	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	574858	42.86	ng	0.00
78) Terphenyl-d14	13.84	244	683109	45.00	ng	-0.11
Target Compounds						Qvalue
31) Naphthalene	8.83	128	123702	7.84	ng	99
37) 2-Methylnaphthalene	9.53	142	57022	5.42	ng	98
49) Dimethylphthalate	10.27	163	307771	26.07	ng	99
51) Acenaphthene	10.63	154	190647	19.50	ng	99
54) Dibenzofuran	10.80	168	275766	19.43	ng	97
57) Fluorene	11.14	166	268691	23.17	ng	100
70) Phenanthrene	12.15	178	3280541m	192.74	ng	
71) Anthracene	12.19	178	998628	58.31	ng	99
72) Carbazole	12.34	167	429906	27.34	ng	98
74) Fluoranthene	13.44	202	3532580	192.48	ng	95
77) Pyrene	13.71	202	3138414	170.25	ng	97
80) Benzo(a)anthracene	15.15	228	1785443m	101.98	ng	
82) Chrysene	15.20	228	1392718m	79.07	ng	
85) Indeno(1,2,3-cd)pyrene	19.21	276	733932m	42.61	ng	
87) Benzo(b)fluoranthene	16.58	252	1889224m	119.43	ng	
88) Benzo(k)fluoranthene	16.62	252	516380m	27.86	ng	
89) Benzo(a)pyrene	17.09	252	1249411m	80.78	ng	
90) Dibenzo(a,h)anthracene	19.21	278	196128m	13.53	ng	
91) Benzo(a,h,i)perylene	19.83	276	643281m	41.85	ng	

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



#1

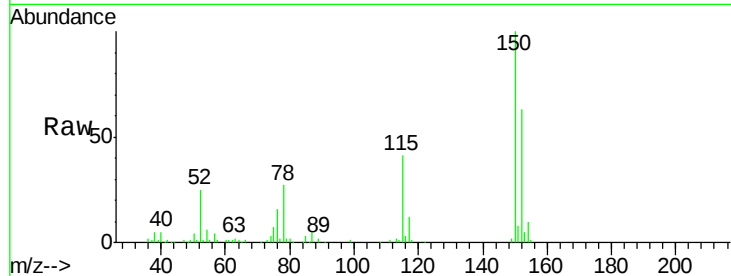
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.52 min Scan# 554
Delta R.T. 0.00 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

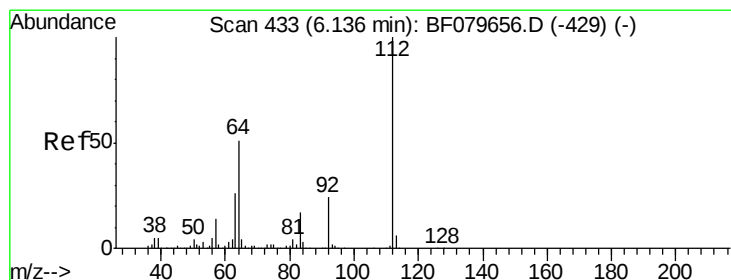
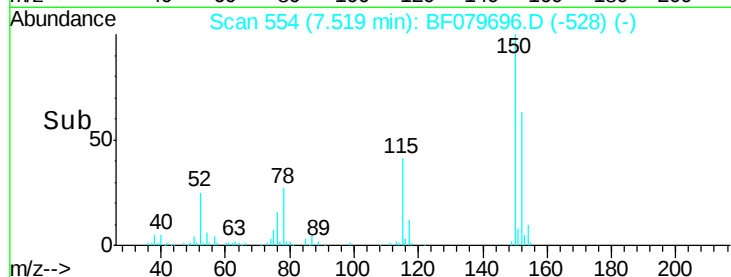
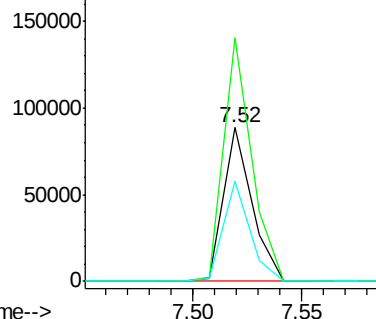
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	126.7	190.1
115	65.0	49.2	73.8

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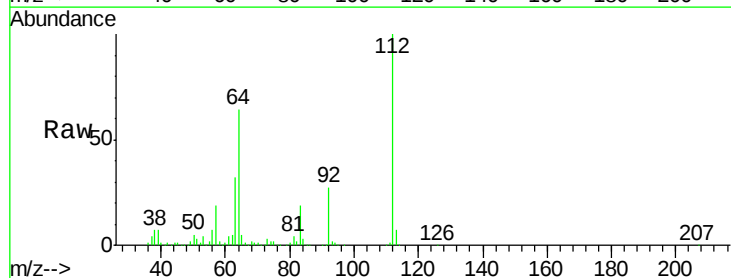
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



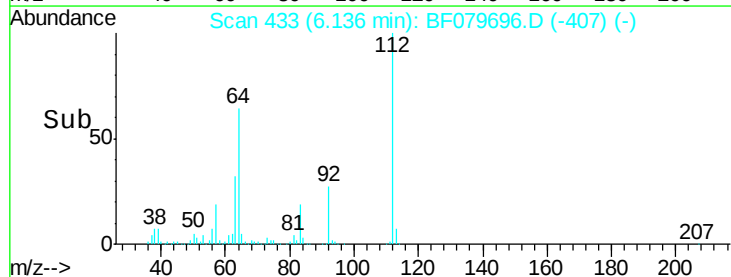
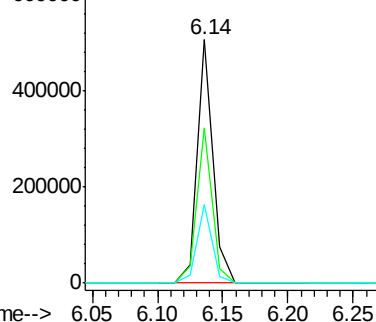
#5

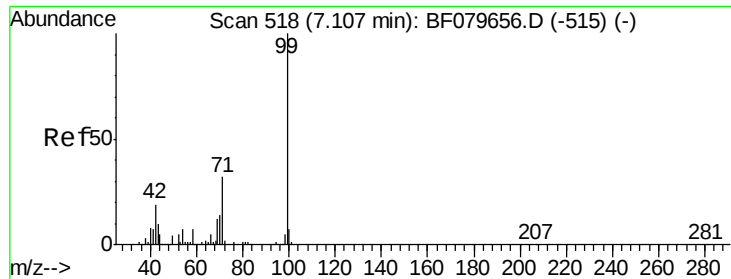
2-Fluorophenol
Concen: 96.53 ng
RT: 6.14 min Scan# 433
Delta R.T. 0.00 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	41.1	61.7#
63	32.1	20.5	30.7#



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: 92.92 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.00 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Instrument :

BNA_F

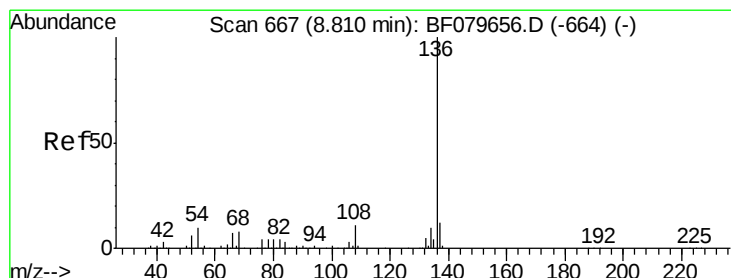
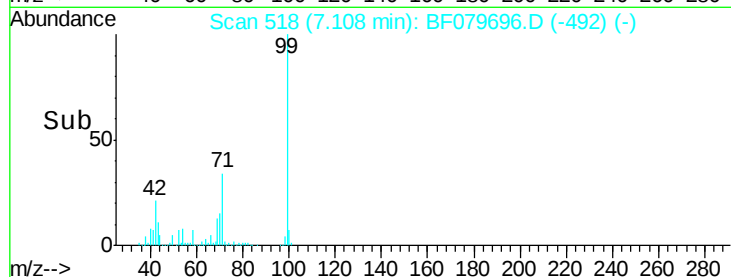
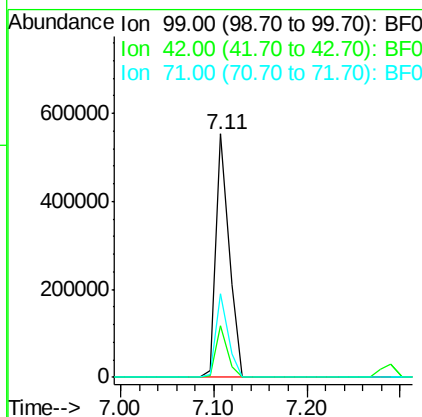
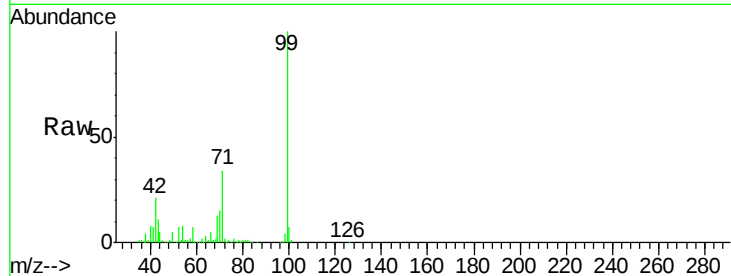
ClientSampleId :

TS16.4(3)

Tot Ion:	99	Resp:	538966
Ion Ratio	Lower	Upper	
99	100		
42	21.0	15.2	22.8
71	34.4	25.9	38.9

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#21

Naphthalene-d8

Concen: 20.00 ng

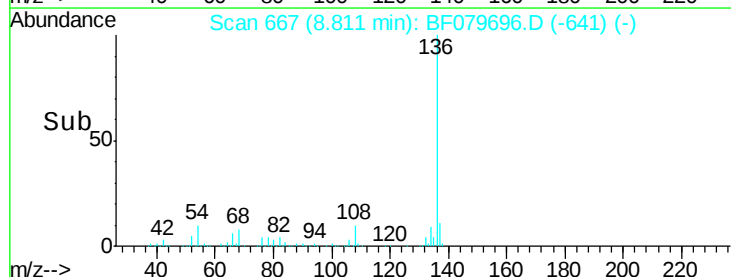
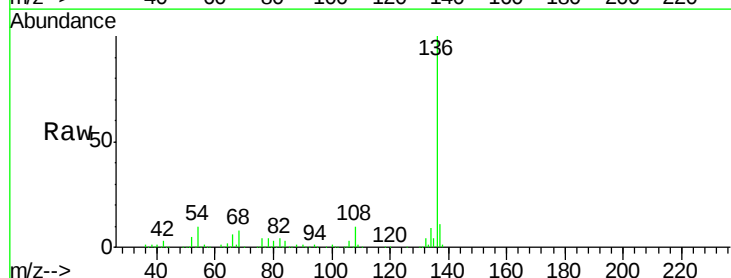
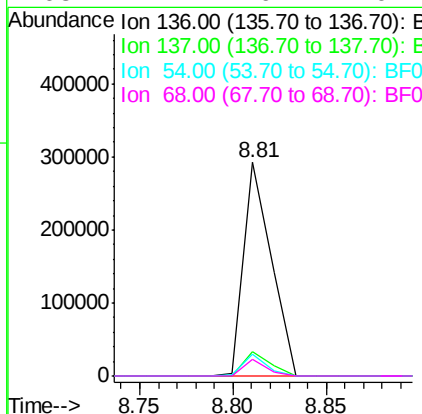
RT: 8.81 min Scan# 667

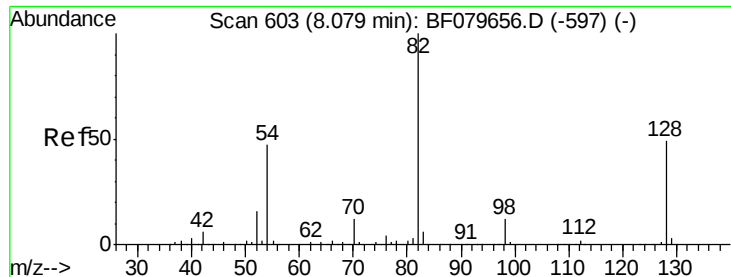
Delta R.T. 0.00 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Tgt Ion:	136	Resp:	301816
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.3	13.9
54	10.2	8.3	12.5
68	7.7	6.1	9.1





#23

Nitrobenzene-d5

Concen: 45.36 ng

RT: 8.08 min Scan# 603

Delta R.T. 0.00 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Instrument :

BNA_F

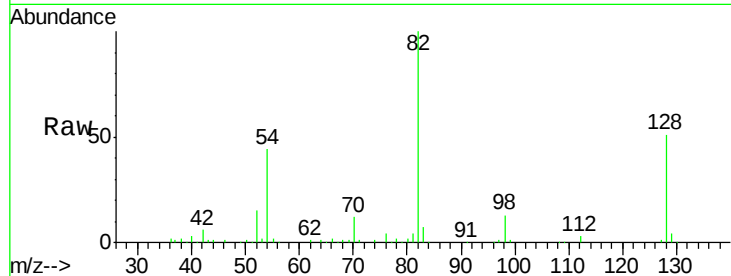
ClientSampleId :

TS16.4(3)

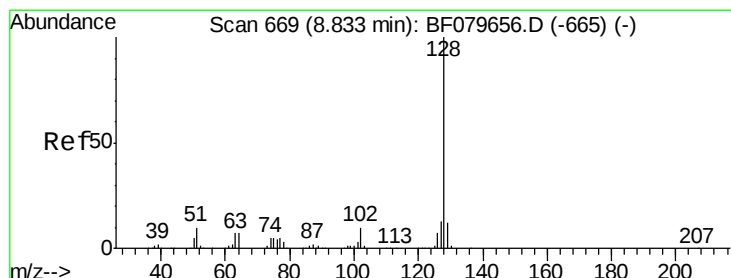
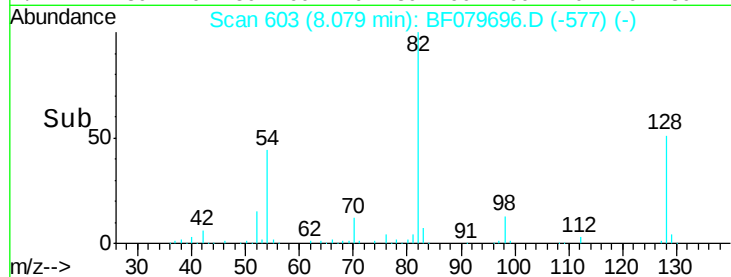
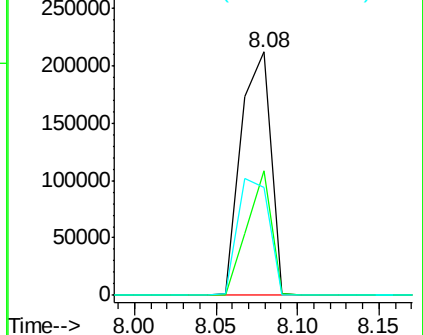
Tot Ion:	82	Resp:	266914
Ion Ratio	Lower	Upper	
82	100		
128	51.3	39.4	59.0
54	44.4	37.4	56.0

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Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 7.84 ng

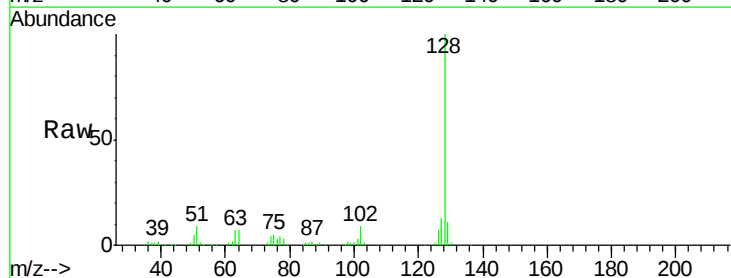
RT: 8.83 min Scan# 669

Delta R.T. 0.00 min

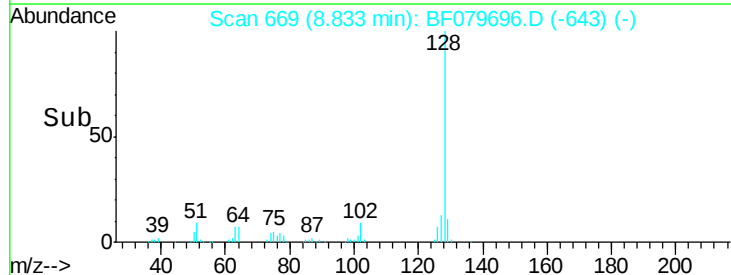
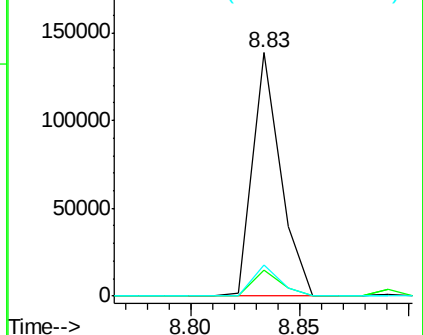
Lab File: BF079696.D

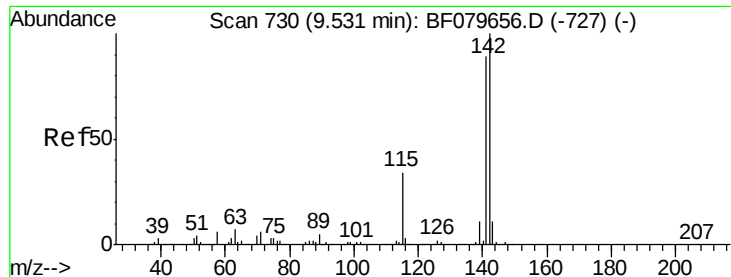
Acq: 4 Jun 2015 9:18

Tgt Ion:	128	Resp:	123702
Ion Ratio	Lower	Upper	
128	100		
129	10.7	9.3	13.9
127	13.0	10.4	15.6



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





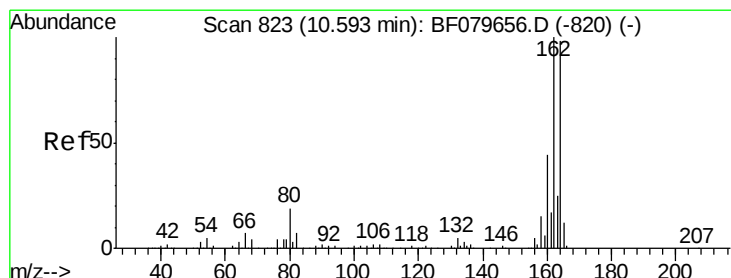
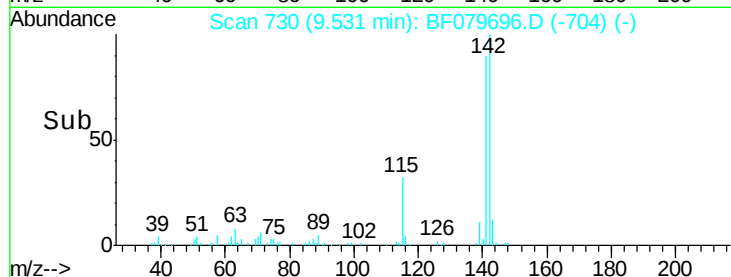
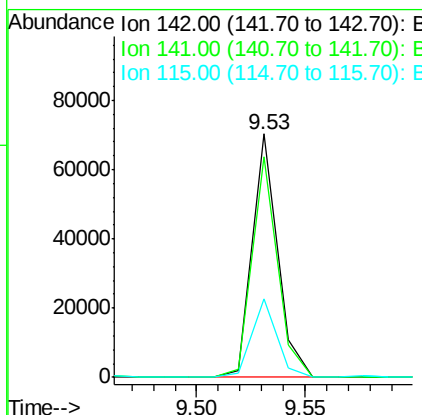
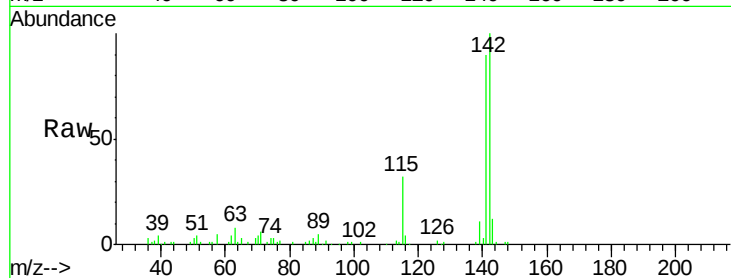
#37
2-Methylnaphthalene
Concen: 5.42 ng
RT: 9.53 min Scan# 730
Delta R.T. 0.00 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.4	107.0
115	32.2	27.3	40.9

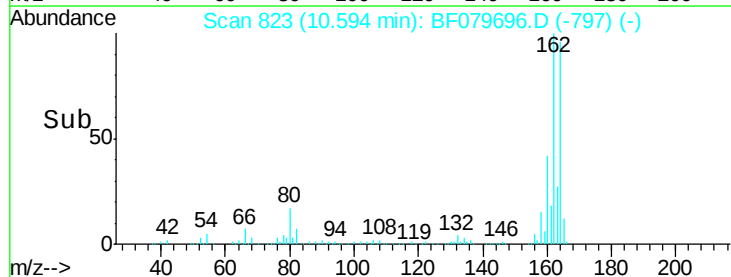
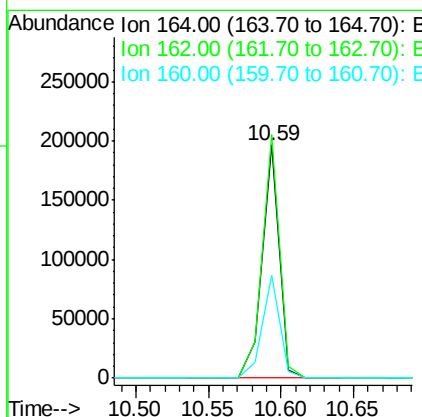
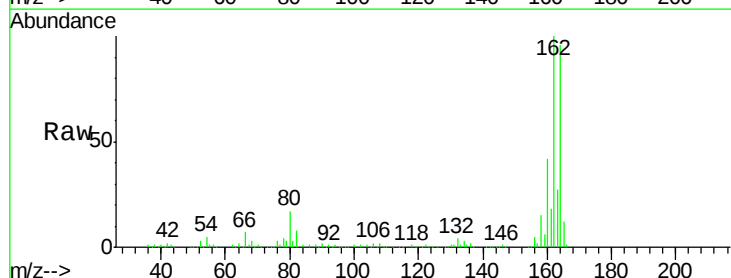
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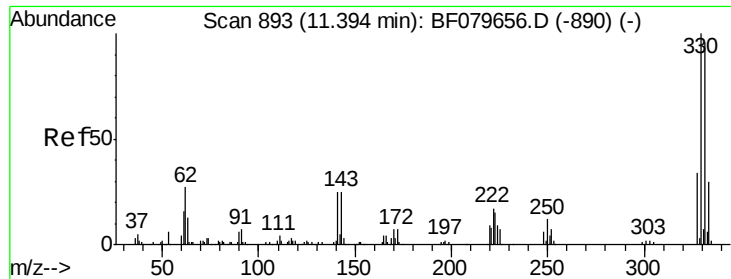
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.59 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.0	123.0
160	44.4	35.9	53.9





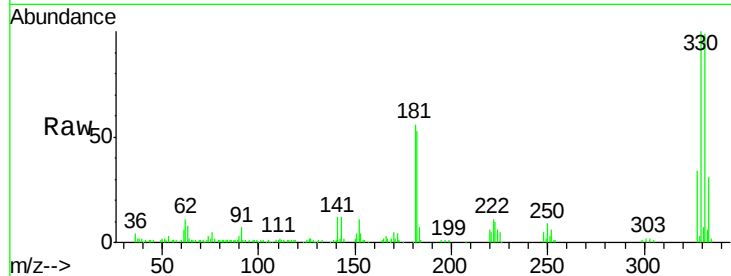
#41
 2,4,6-Tribromophenol
 Concen: 90.51 ng
 RT: 11.39 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: BF079696.D
 Acq: 4 Jun 2015 9:18

Instrument :
 BNA_F
 ClientSampleId :
 TS16.4(3)

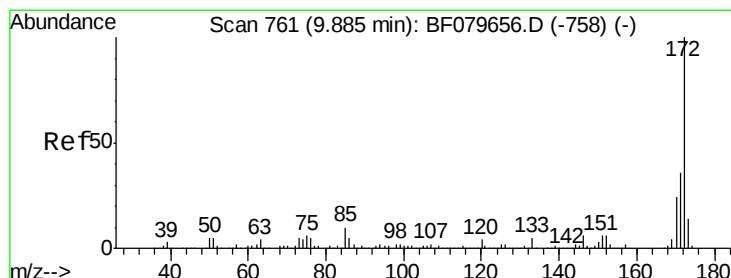
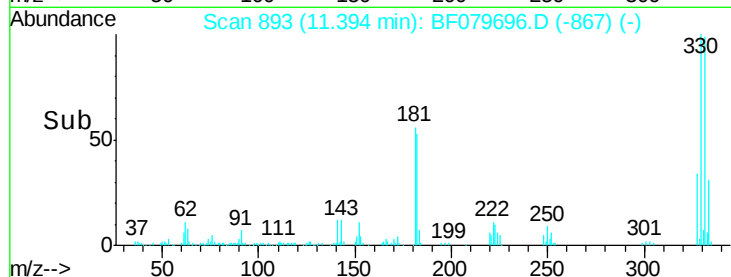
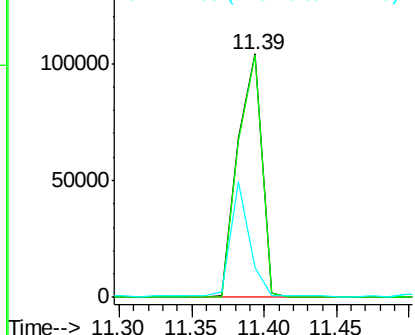
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.6	77.3	115.9
141	39.1	27.4	41.2

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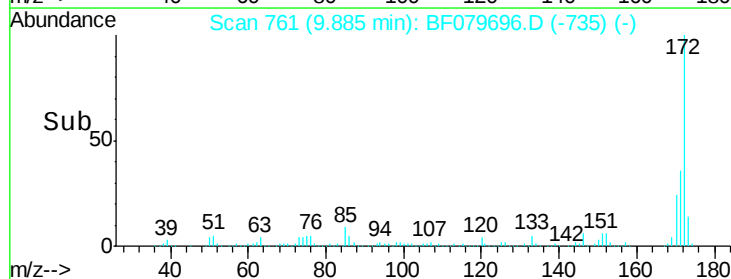
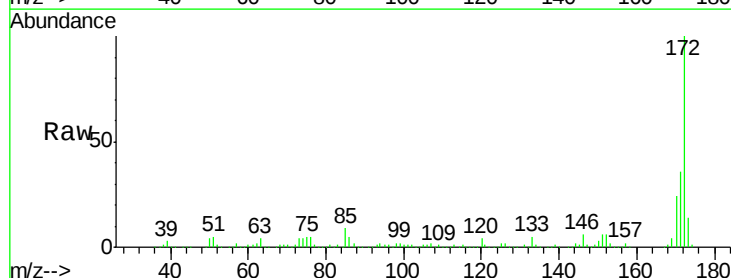
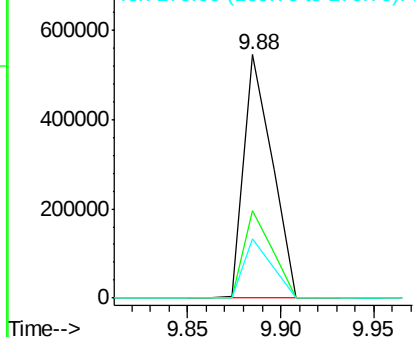
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

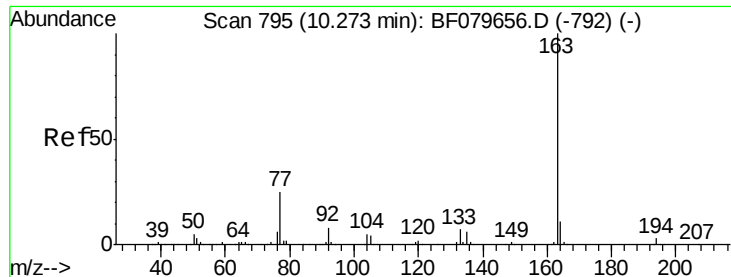


#44
 2-Fluorobiphenyl
 Concen: 42.86 ng
 RT: 9.88 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: BF079696.D
 Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	24.2	19.2	28.8

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





#49

Dimethylphthalate

Concen: 26.07 ng

RT: 10.27 min Scan# 795

Delta R.T. 0.00 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Instrument :

BNA_F

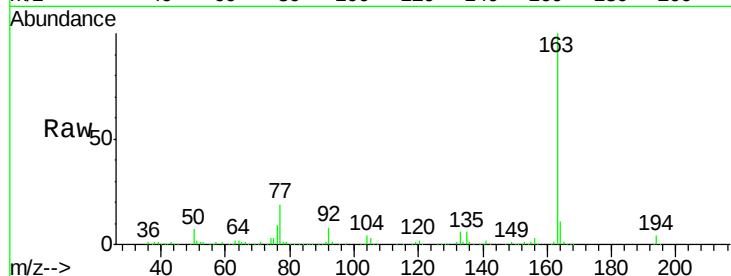
ClientSampled :

TS16.4(3)

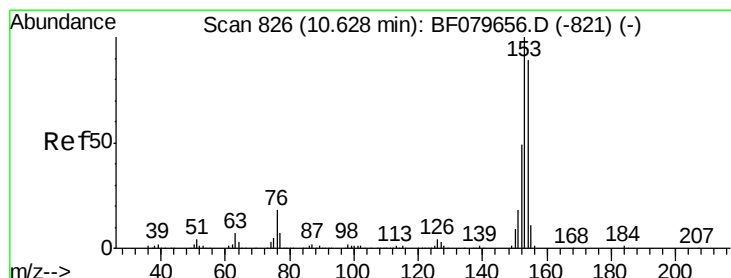
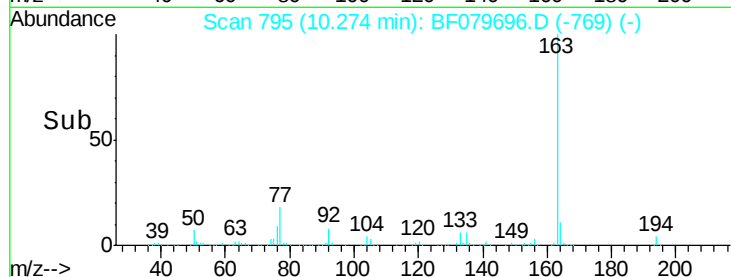
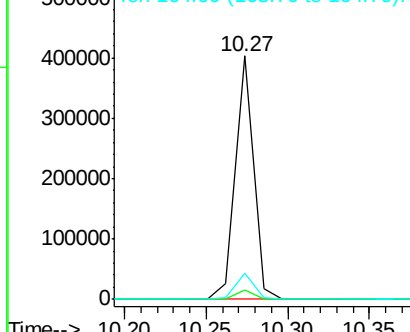
Tot Ion:	163	Resp:	307771
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.6	3.8
164	10.8	8.6	12.8

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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



#51

Acenaphthene

Concen: 19.50 ng

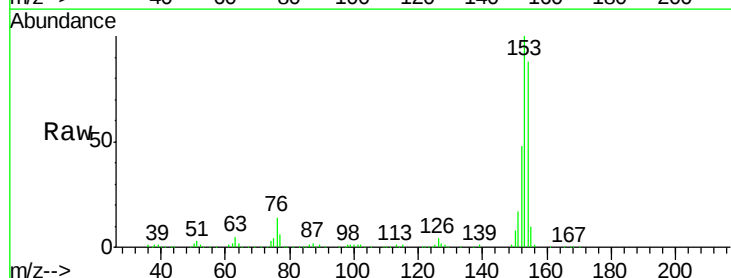
RT: 10.63 min Scan# 826

Delta R.T. 0.00 min

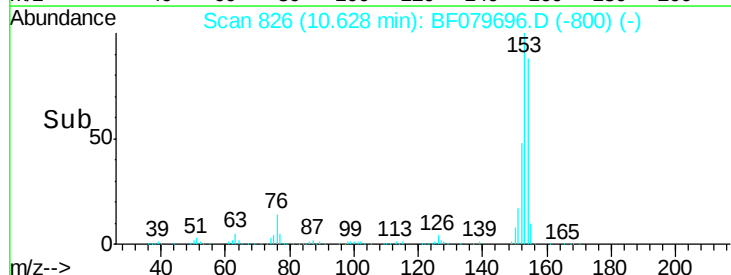
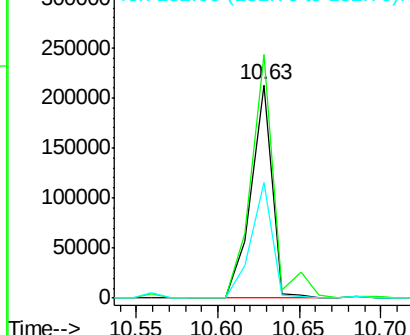
Lab File: BF079696.D

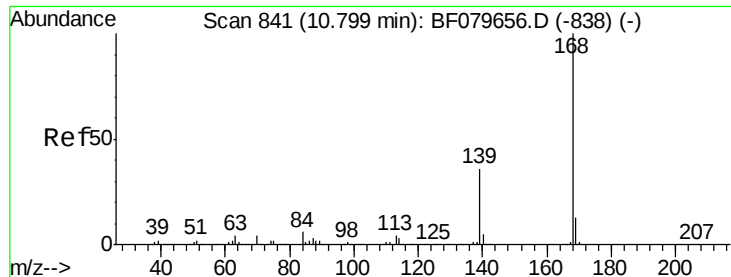
Acq: 4 Jun 2015 9:18

Tgt Ion:	154	Resp:	190647
Ion Ratio	Lower	Upper	
154	100		
153	114.2	89.8	134.6
152	54.4	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





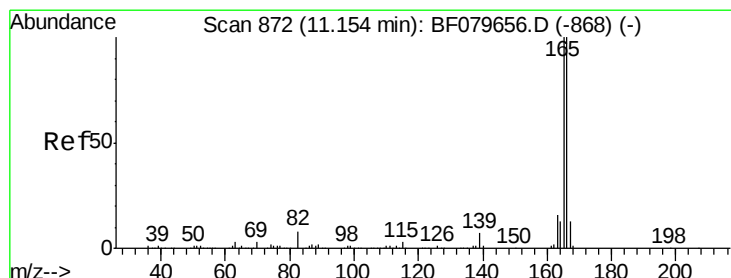
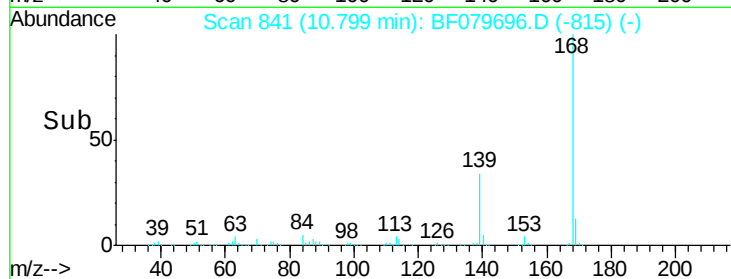
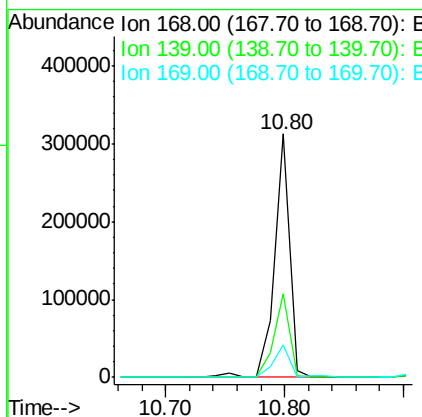
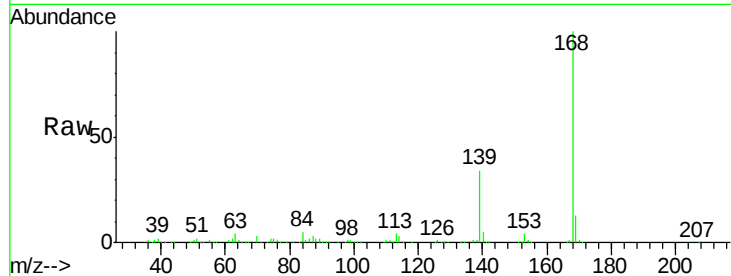
#54
Dibenzenofuran
Concen: 19.43 ng
RT: 10.80 min Scan# 841
Delta R.T. 0.00 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.3	29.1	43.7
169	13.1	10.7	16.1

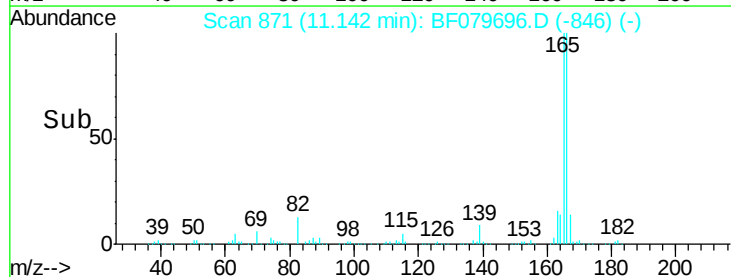
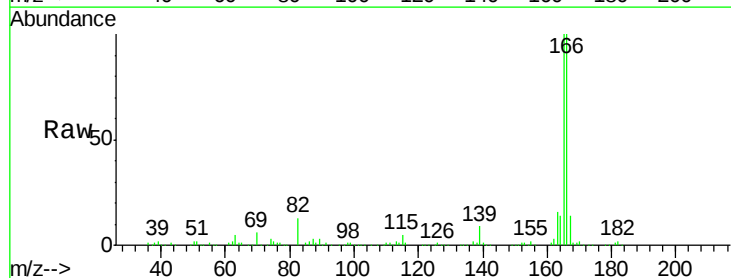
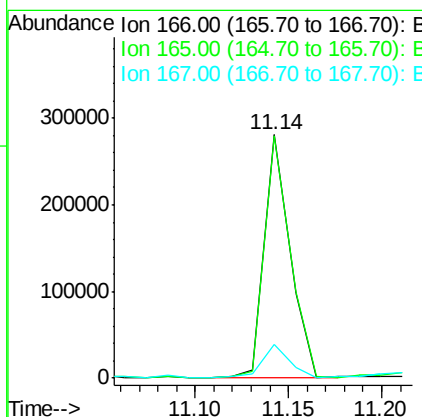
Manual Integrations
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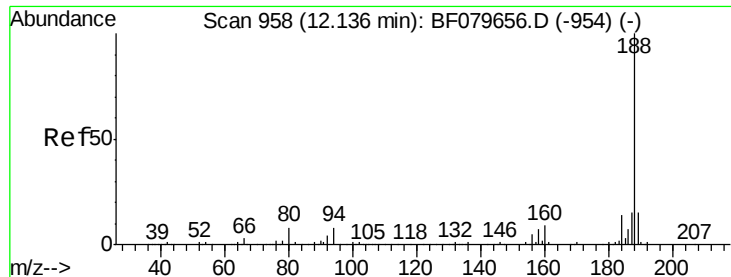
apatel
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#57
Fluorene
Concen: 23.17 ng
RT: 11.14 min Scan# 871
Delta R.T. -0.01 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.6
167	14.1	10.6	15.8





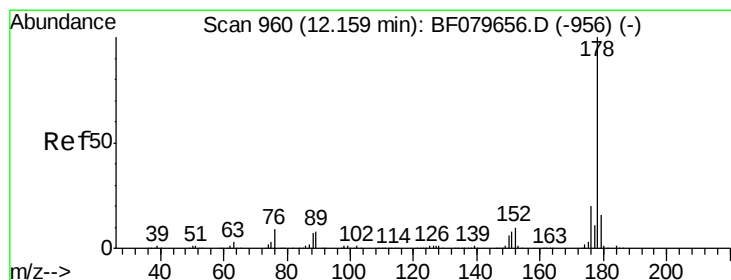
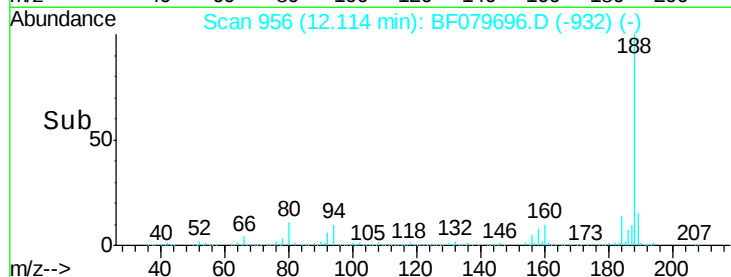
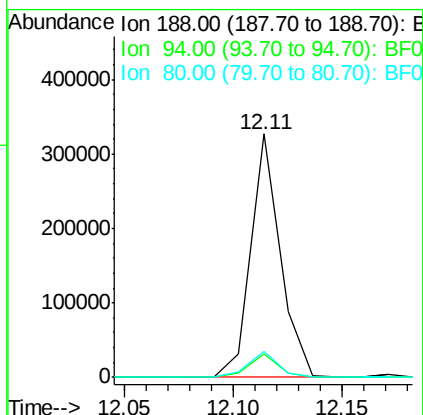
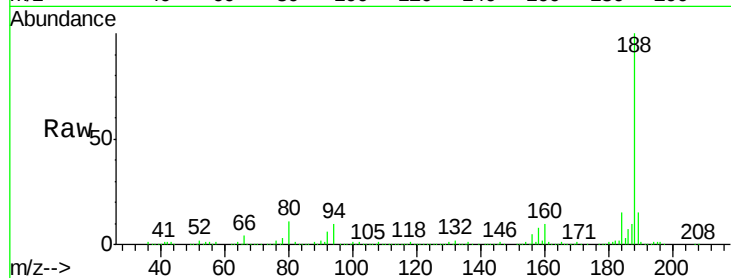
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.11 min Scan# 956
Delta R.T. -0.02 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.8	6.1	9.1#
80	10.8	6.2	9.2#

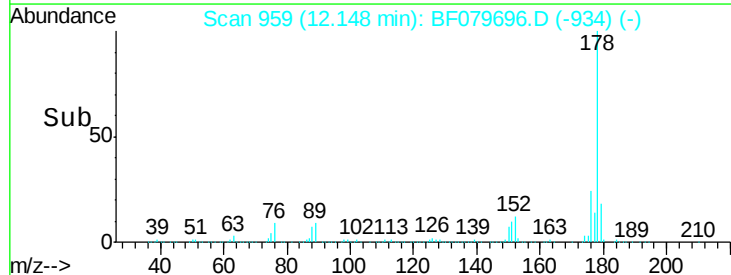
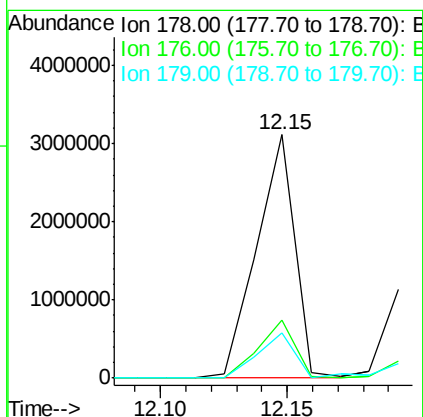
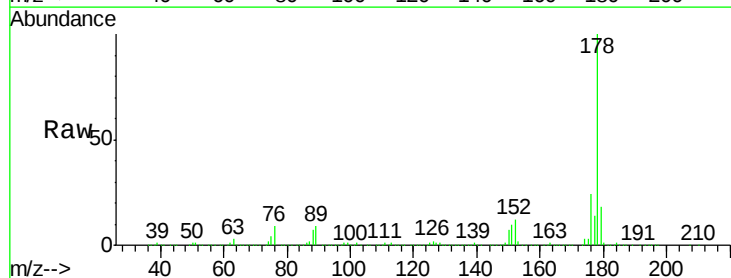
Manual Integrations
APPROVED

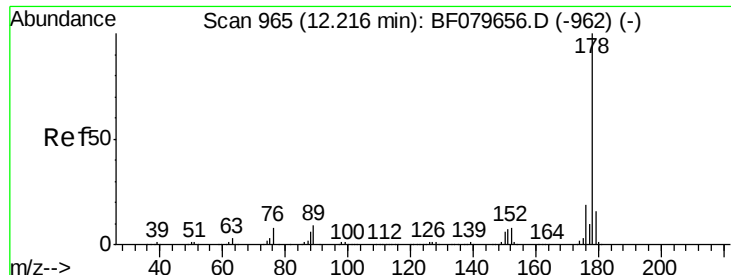
apatel
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#70
Phenanthrene
Concen: 192.74 ng m
RT: 12.15 min Scan# 959
Delta R.T. -0.01 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	23.8	15.8	23.8#
179	18.5	12.7	19.1





#71

Anthracene

Concen: 58.31 ng

RT: 12.19 min Scan# 963

Delta R.T. -0.02 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Instrument :

BNA_F

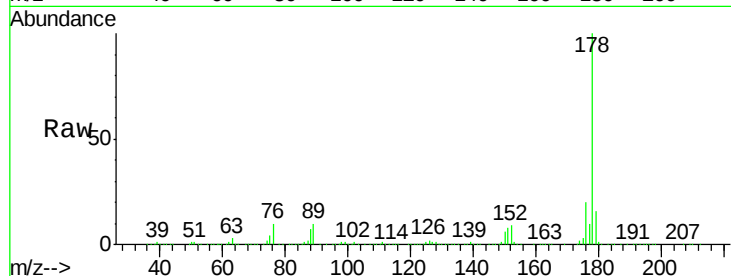
ClientSampleId :

TS16.4(3)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	16.3	12.6	19.0

Manual Integrations
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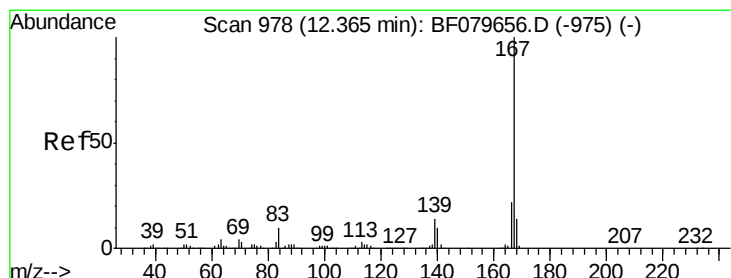
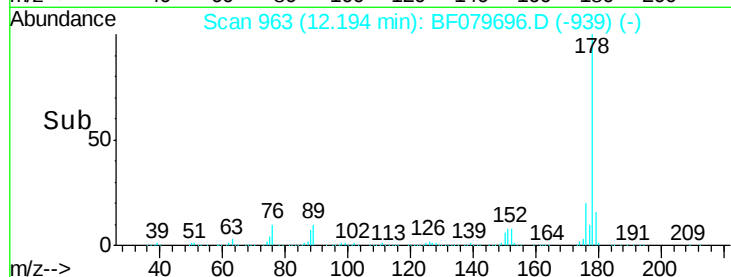
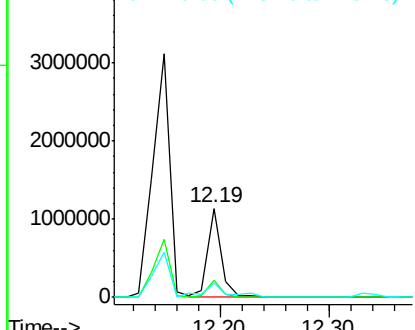
apatel
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 27.34 ng

RT: 12.34 min Scan# 976

Delta R.T. -0.02 min

Lab File: BF079696.D

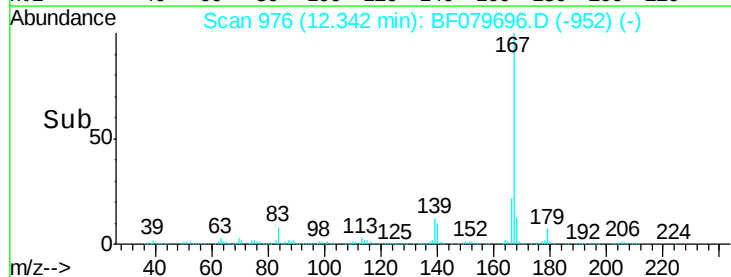
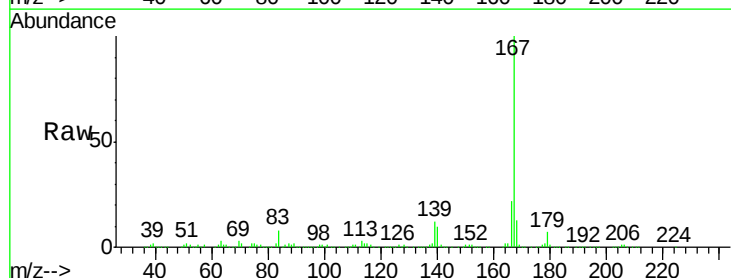
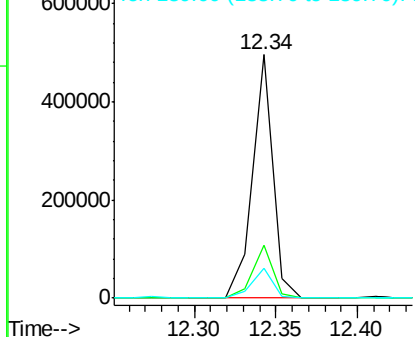
Acq: 4 Jun 2015 9:18

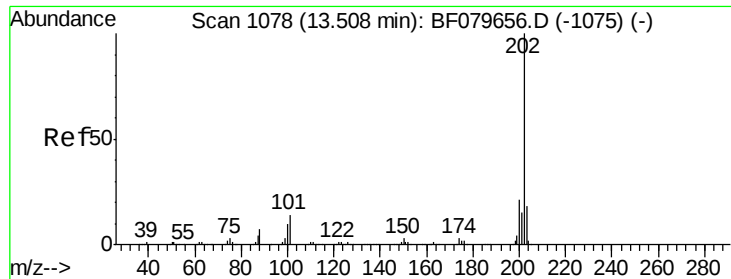
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.4	26.2
139	12.4	11.3	16.9

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: 192.48 ng

RT: 13.44 min Scan# 1072

Delta R.T. -0.07 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Instrument :

BNA_F

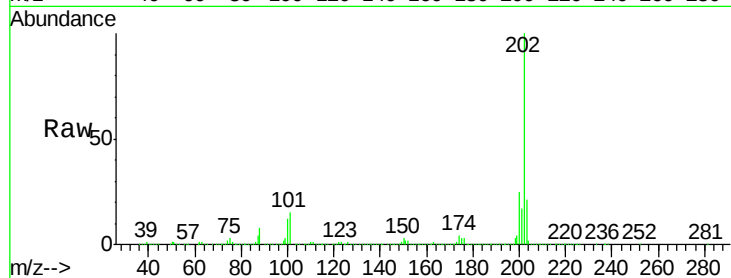
ClientSampleId :

TS16.4(3)

Tot Ion:	202	Resp:	3532580
Ion	Ratio	Lower	Upper
202	100		
101	15.1	0.0	34.0
203	20.9	0.0	37.9

Manual Integrations
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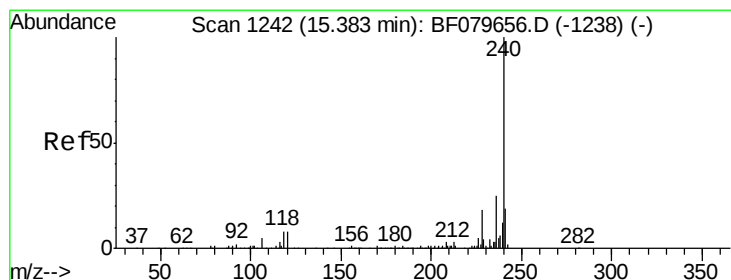
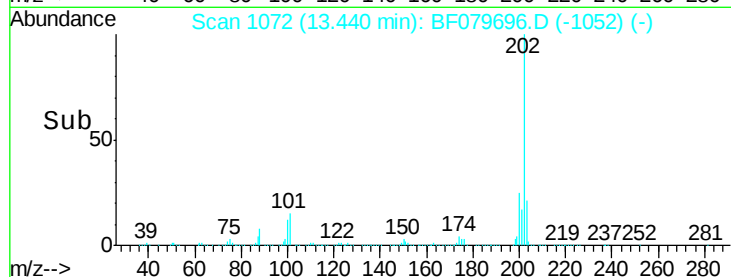
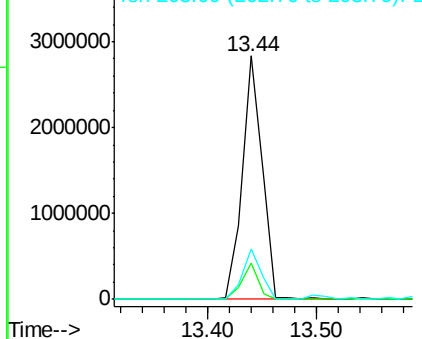
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng m

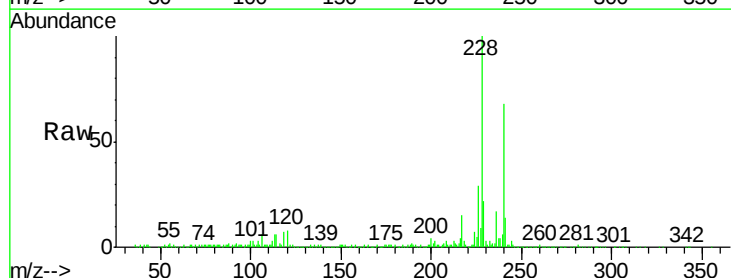
RT: 15.17 min Scan# 1223

Delta R.T. -0.22 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

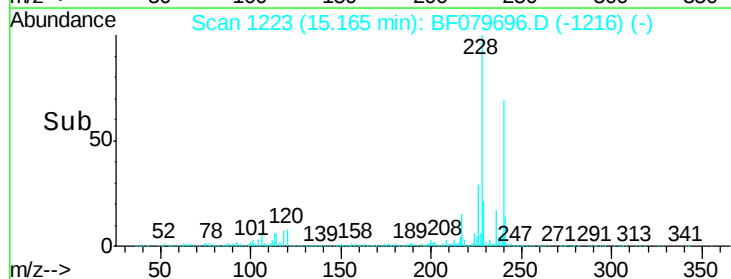
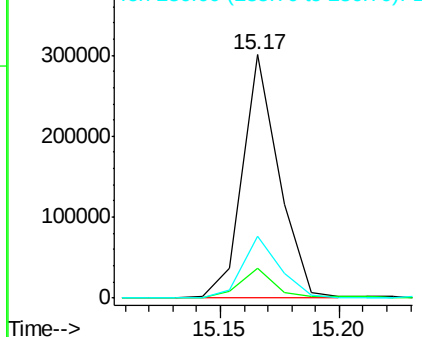
Tgt Ion:	240	Resp:	320158
Ion	Ratio	Lower	Upper
240	100		
120	12.4	6.4	9.6#
236	25.3	20.2	30.4

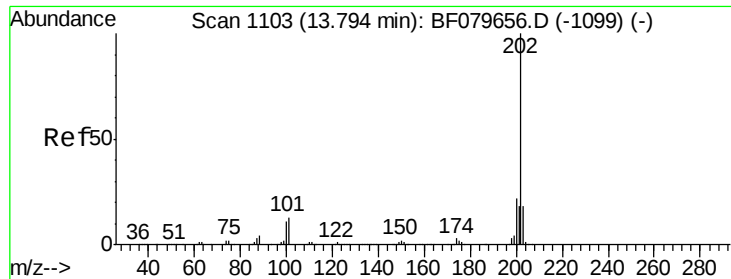


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





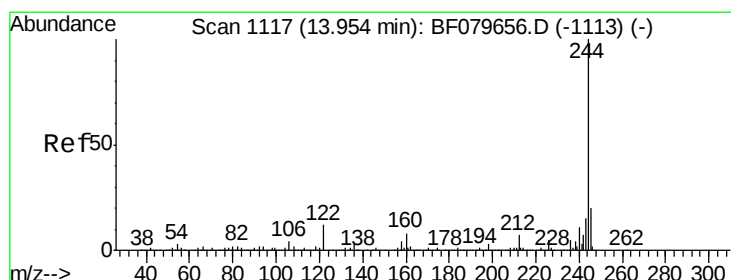
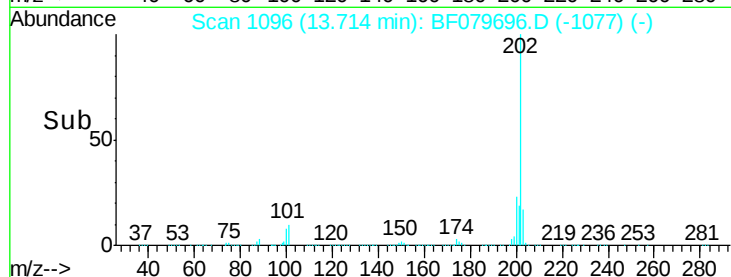
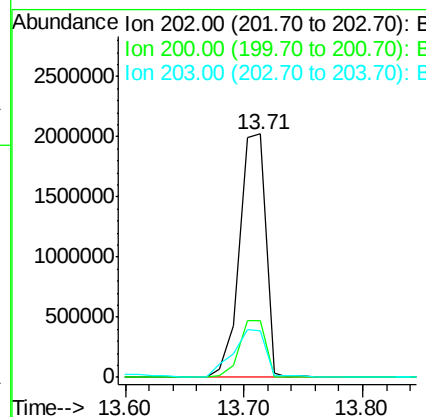
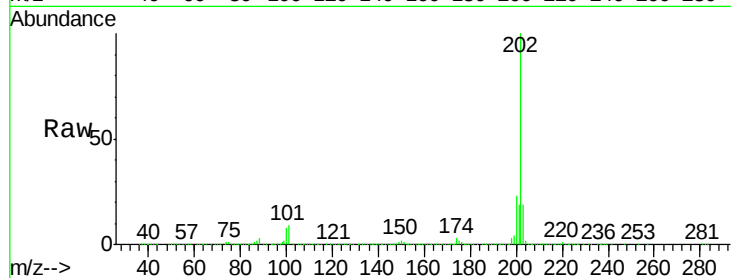
#77
Pvrene
Concen: 170.25 ng
RT: 13.71 min Scan# 1096
Delta R.T. -0.08 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.4	17.4	26.0
203	19.3	14.5	21.7

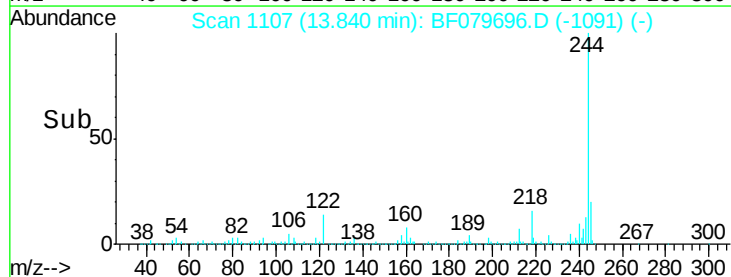
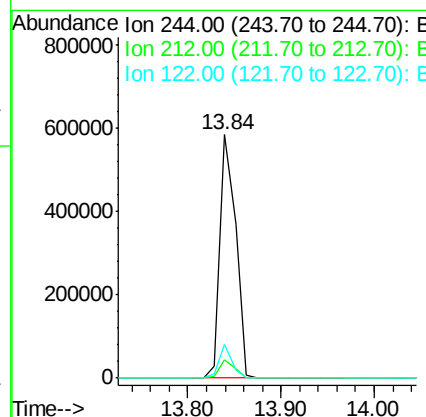
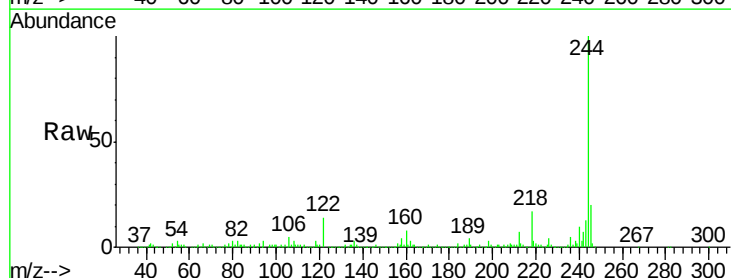
Manual Integrations
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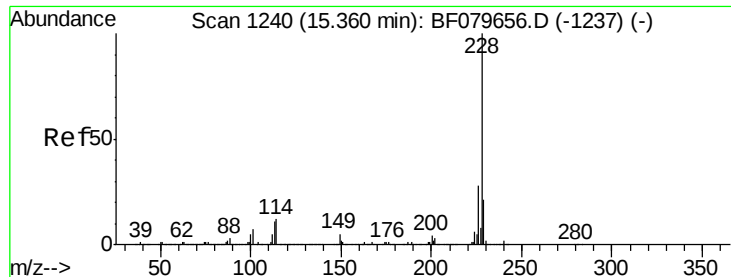
apatel
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#78
Terphenyl-d14
Concen: 45.00 ng
RT: 13.84 min Scan# 1107
Delta R.T. -0.11 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.9	8.9
122	13.8	9.8	14.6





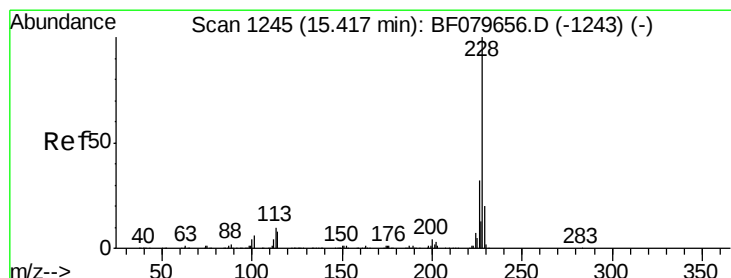
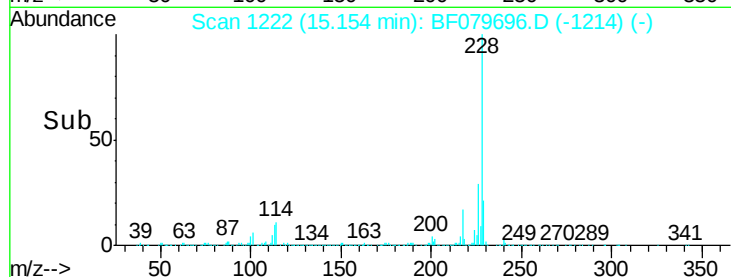
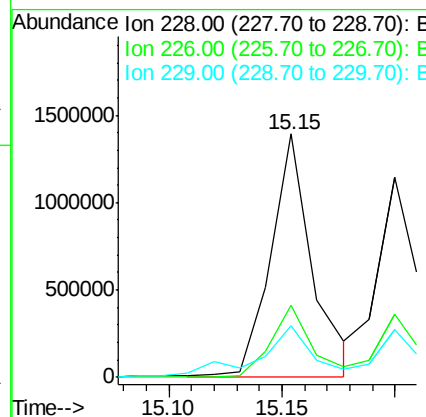
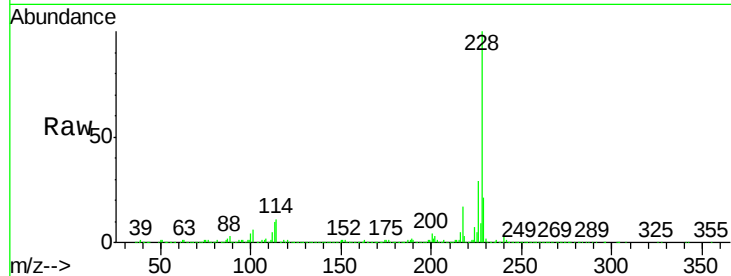
#80
Benzo(a)anthracene
Concen: 101.98 ng m
RT: 15.15 min Scan# 1222
Delta R.T. -0.21 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

Tot Ion:228 Resp: 1785443
Ion Ratio Lower Upper
228 100
226 29.4 22.5 33.7
229 21.4 16.6 24.8

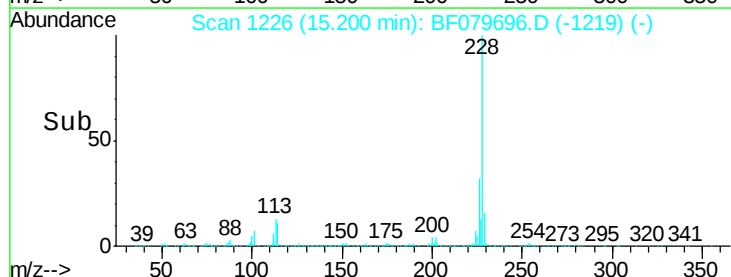
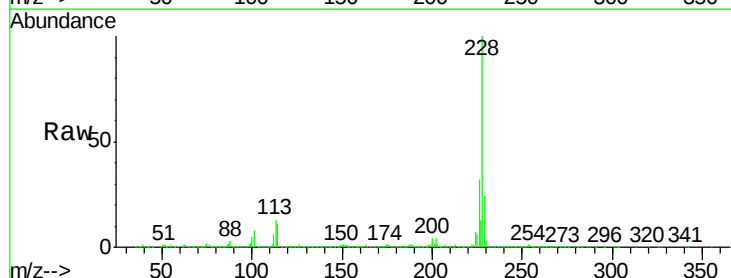
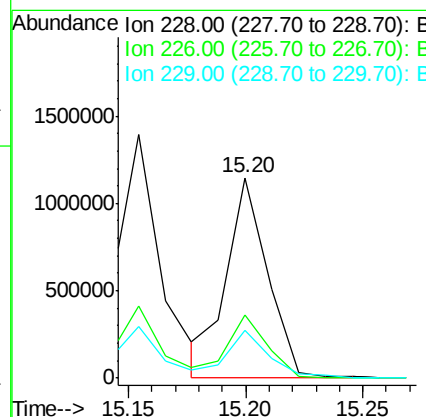
Manual Integrations
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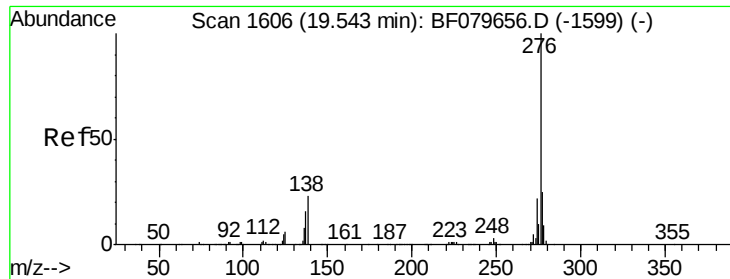
apatel
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#82
Chrysene
Concen: 79.07 ng m
RT: 15.20 min Scan# 1226
Delta R.T. -0.22 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion:228 Resp: 1392718
Ion Ratio Lower Upper
228 100
226 31.5 25.2 37.8
229 23.6 16.3 24.5





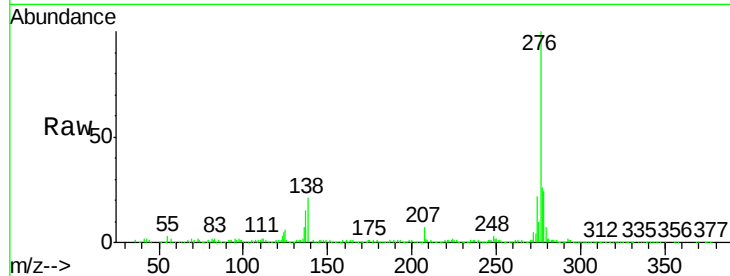
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 42.61 ng m
 RT: 19.21 min Scan# 1577
 Delta R.T. -0.33 min
 Lab File: BF079696.D
 Acq: 4 Jun 2015 9:18

Instrument :
 BNA_F
 ClientSampleId :
 TS16.4(3)

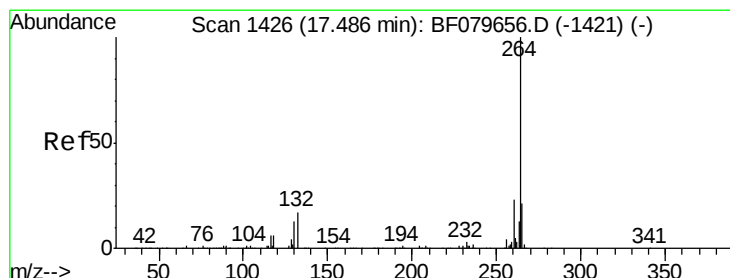
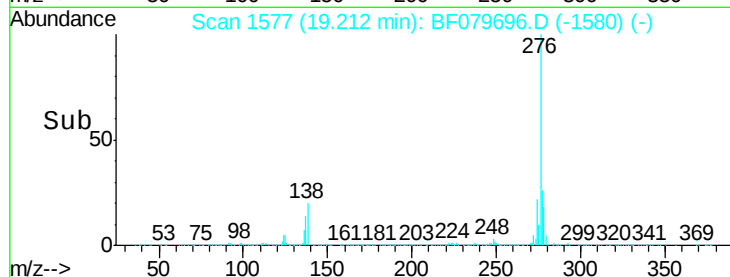
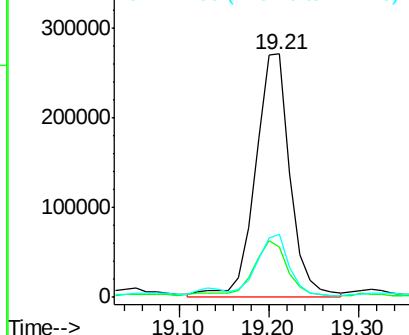
Tot Ion	Ratio	Lower	Upper
276	100		
138	19.7	21.9	32.9#
277	21.8	20.2	30.4

Manual Integrations
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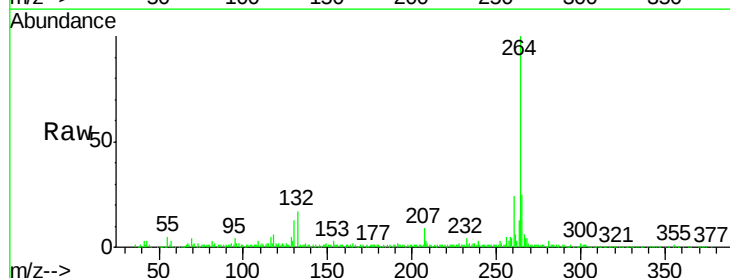


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

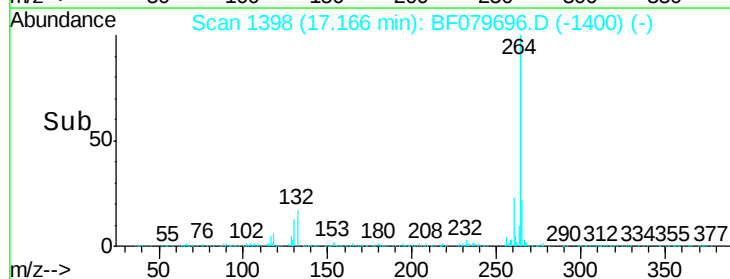
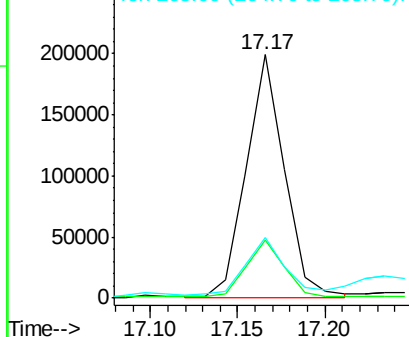


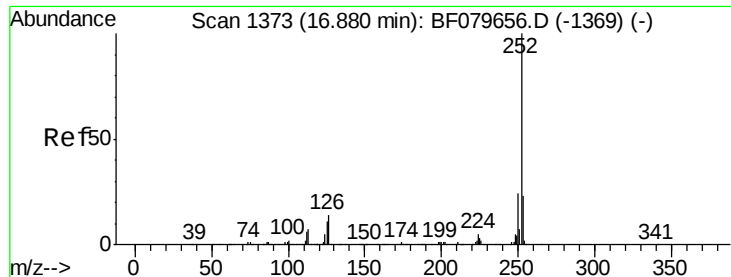
#86
 Perylene-d12
 Concen: 20.00 ng m
 RT: 17.17 min Scan# 1398
 Delta R.T. -0.32 min
 Lab File: BF079696.D
 Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.8	28.2
265	24.6	17.4	26.0



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 119.43 ng m

RT: 16.58 min Scan# 1347

Delta R.T. -0.30 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

Instrument :

BNA_F

ClientSampleId :

TS16.4(3)

Tot Ion:252 Resp: 1889224

Ion Ratio Lower Upper

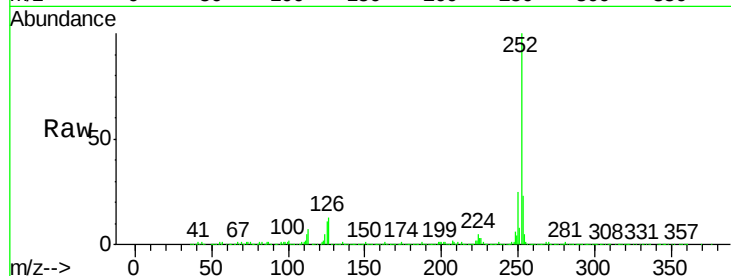
252 100

253 23.5 18.0 27.0

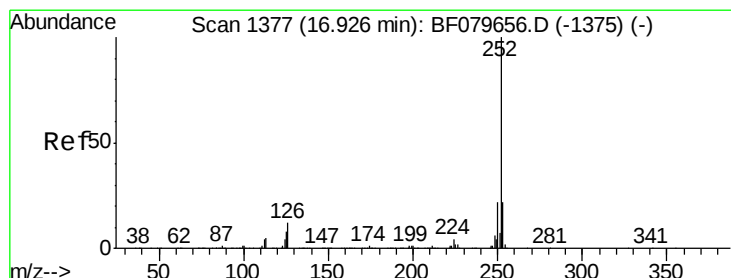
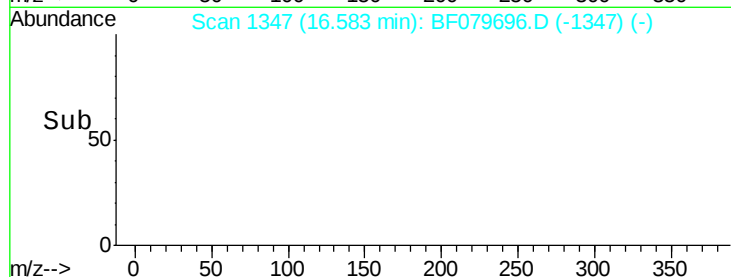
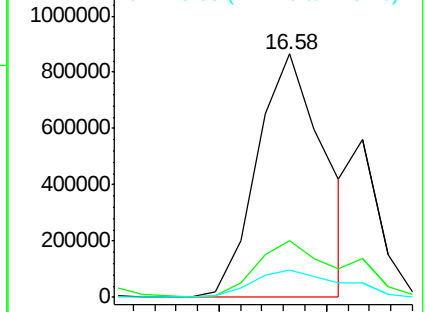
125 11.1 8.7 13.1

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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(k)fluoranthene

Concen: 27.86 ng m

RT: 16.62 min Scan# 1350

Delta R.T. -0.31 min

Lab File: BF079696.D

Acq: 4 Jun 2015 9:18

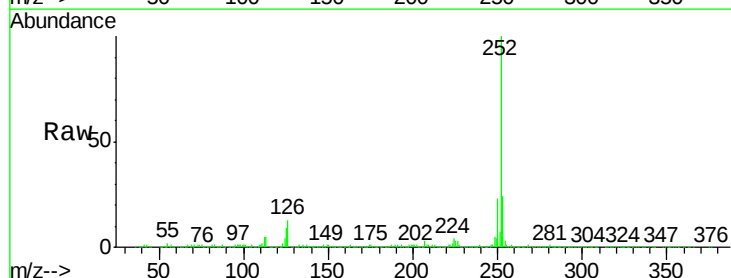
Tgt Ion:252 Resp: 516380

Ion Ratio Lower Upper

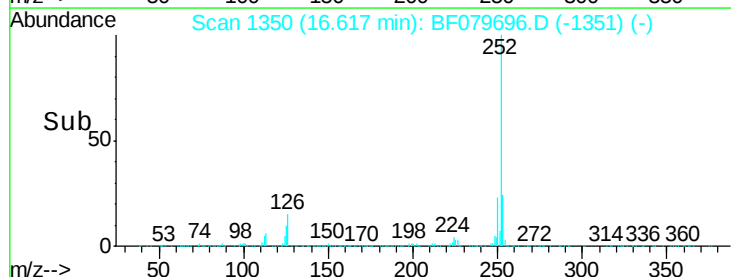
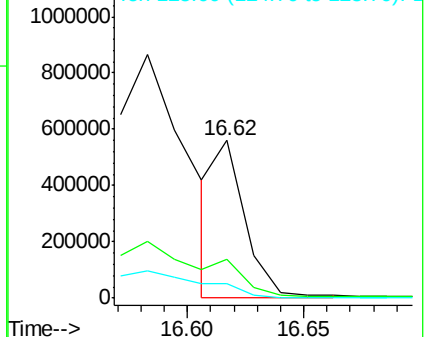
252 100

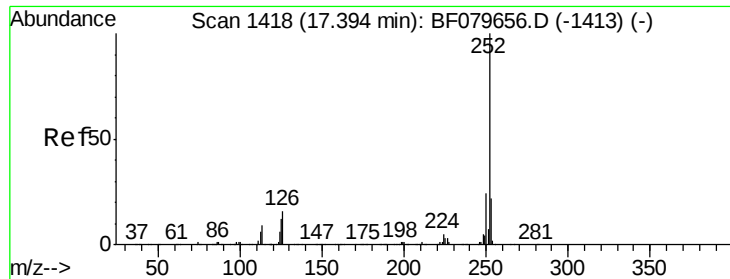
253 24.4 17.4 26.2

125 9.0 7.1 10.7



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





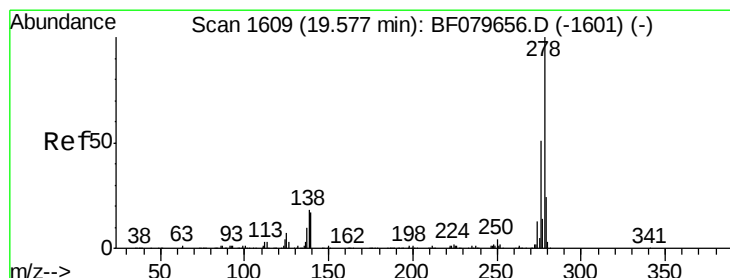
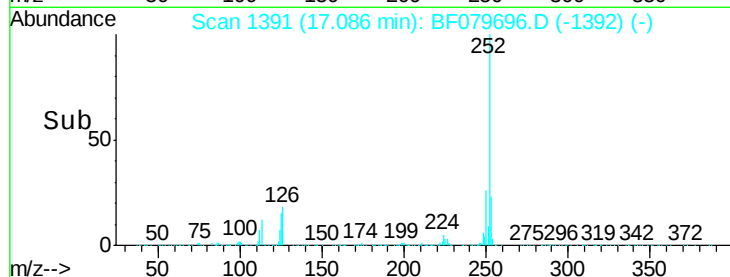
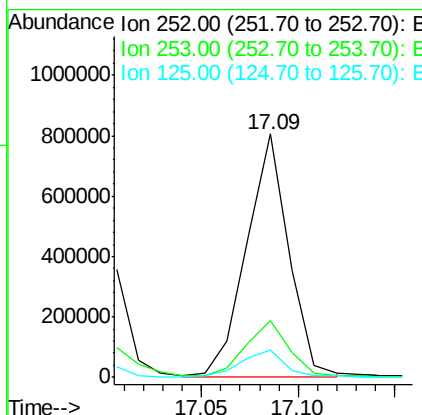
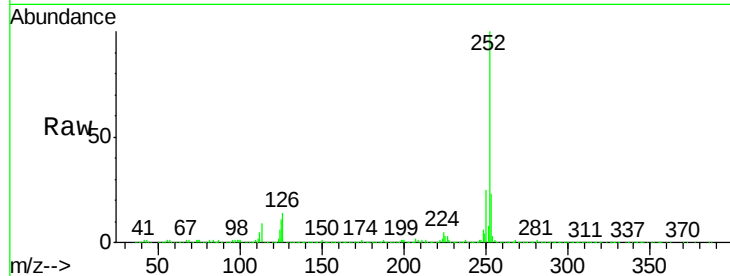
#89
Benzo(a)pyrene
Concen: 80.78 ng m
RT: 17.09 min Scan# 1391
Delta R.T. -0.31 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Instrument :
BNA_F
ClientSampleId :
TS16.4(3)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	11.2	9.4	14.0

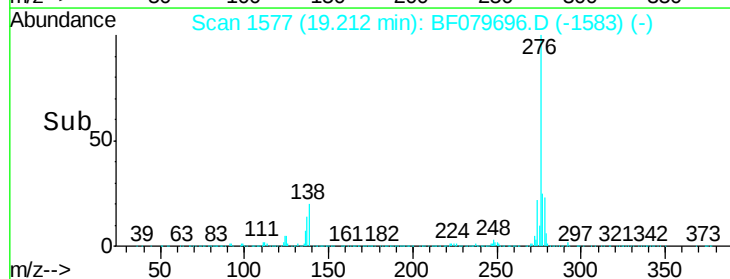
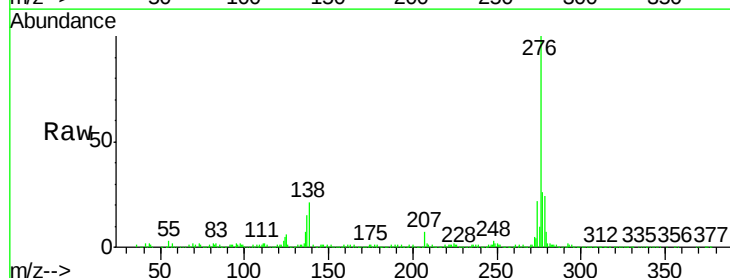
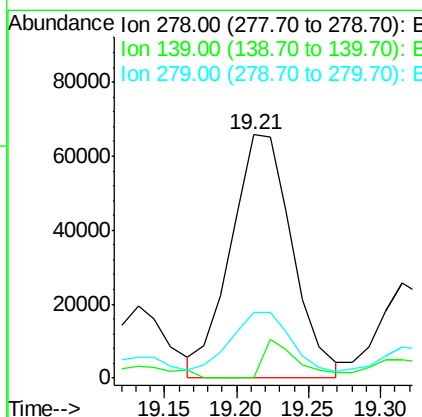
Manual Integrations
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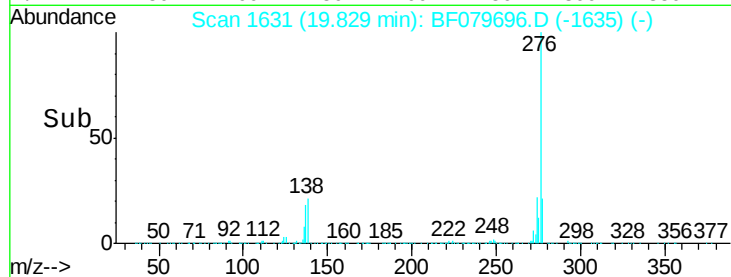
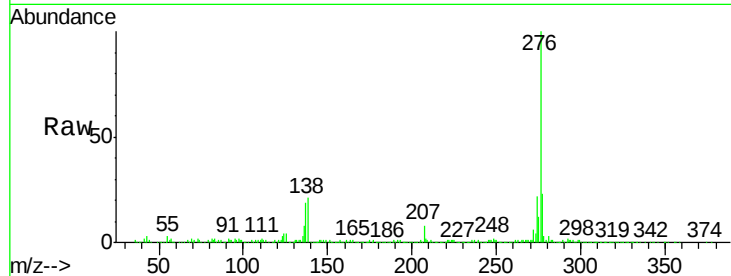
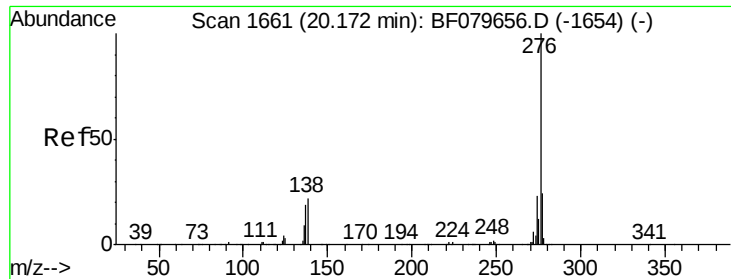
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6/5/2015 8:11:26 AM



#90
Dibenzo(a,h)anthracene
Concen: 13.53 ng m
RT: 19.21 min Scan# 1577
Delta R.T. -0.37 min
Lab File: BF079696.D
Acq: 4 Jun 2015 9:18

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.7	20.5#
279	26.9	19.6	29.4





#91
 Benzo(a,h,i)perylene
 Concen: 41.85 ng/ml
 RT: 19.83 min Scan# 1631
 Delta R.T. -0.34 min
 Lab File: BF079696.D
 Acq: 4 Jun 2015 9:18

Instrument :
 BNA_F
 ClientSampleId :
 TS16.4(3)

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.1	28.7
138	21.4	17.4	26.0

Manual Integrations
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 6/5/2015 8:11:26 AM

