

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
 Data File : BF079553.D
 Acq On : 28 May 2015 19:31
 Operator : TP/IZ
 Sample : G2408-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-25D

Manual Integrations
 APPROVED

apatel
 5/29/2015 5:12:43 PM

Quant Time: May 29 09:21:40 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 18:41:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	70692	20.00	ng	0.00
21) Naphthalene-d8	8.54	136	293168	20.00	ng	0.00
38) Acenaphthene-d10	10.71	164	146677	20.00	ng	0.00
63) Phenanthrene-d10	12.54	188	274569	20.00	ng	0.00
75) Chrysene-d12	15.82	240	297655	20.00	ng	-0.02
86) Perylene-d12	17.57	264	311353	20.00	ng	-0.10

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	323354m	79.34	ng	0.02
7) Phenol-d6	6.57	99	433075	83.36	ng	0.01
23) Nitrobenzene-d5	7.66	82	247106	48.72	ng	-0.01
41) 2,4,6-Tribromophenol	11.69	330	131150	81.41	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	470969	45.81	ng	0.00
78) Terphenyl-d14	14.54	244	494862	39.02	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	10.54	152	33824	2.25	ng	99
49) Dimethylphthalate	10.40	163	120499	11.15	ng	98
51) Acenaphthene	10.74	154	28541	3.32	ng	98
57) Fluorene	11.38	166	29091	2.79	ng	94
70) Phenanthrene	12.57	178	410079	27.22	ng	100
71) Anthracene	12.63	178	123311	8.06	ng	99
72) Carbazole	12.85	167	43385	2.95	ng	99
74) Fluoranthene	14.05	202	706925	43.76	ng	99
77) Pyrene	14.32	202	654825	35.51	ng	99
80) Benzo(a)anthracene	15.81	228	446644	26.08	ng	97
82) Chrysene	15.85	228	333612	20.50	ng	97
83) Bis(2-ethylhexyl)phthalate	15.87	149	89617	7.54	ng	99
85) Indeno(1,2,3-cd)pyrene	18.87	276	300644	14.36	ng	95
87) Benzo(b)fluoranthene	17.12	252	539602m	30.39	ng	
88) Benzo(k)fluoranthene	17.14	252	187686m	11.82	ng	
89) Benzo(a)pyrene	17.50	252	437722	27.36	ng	98
90) Dibenzo(a,h)anthracene	18.88	278	71989m	3.00	ng	
91) Benzo(g,h,i)perylene	19.25	276	281457	16.27	ng	97

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

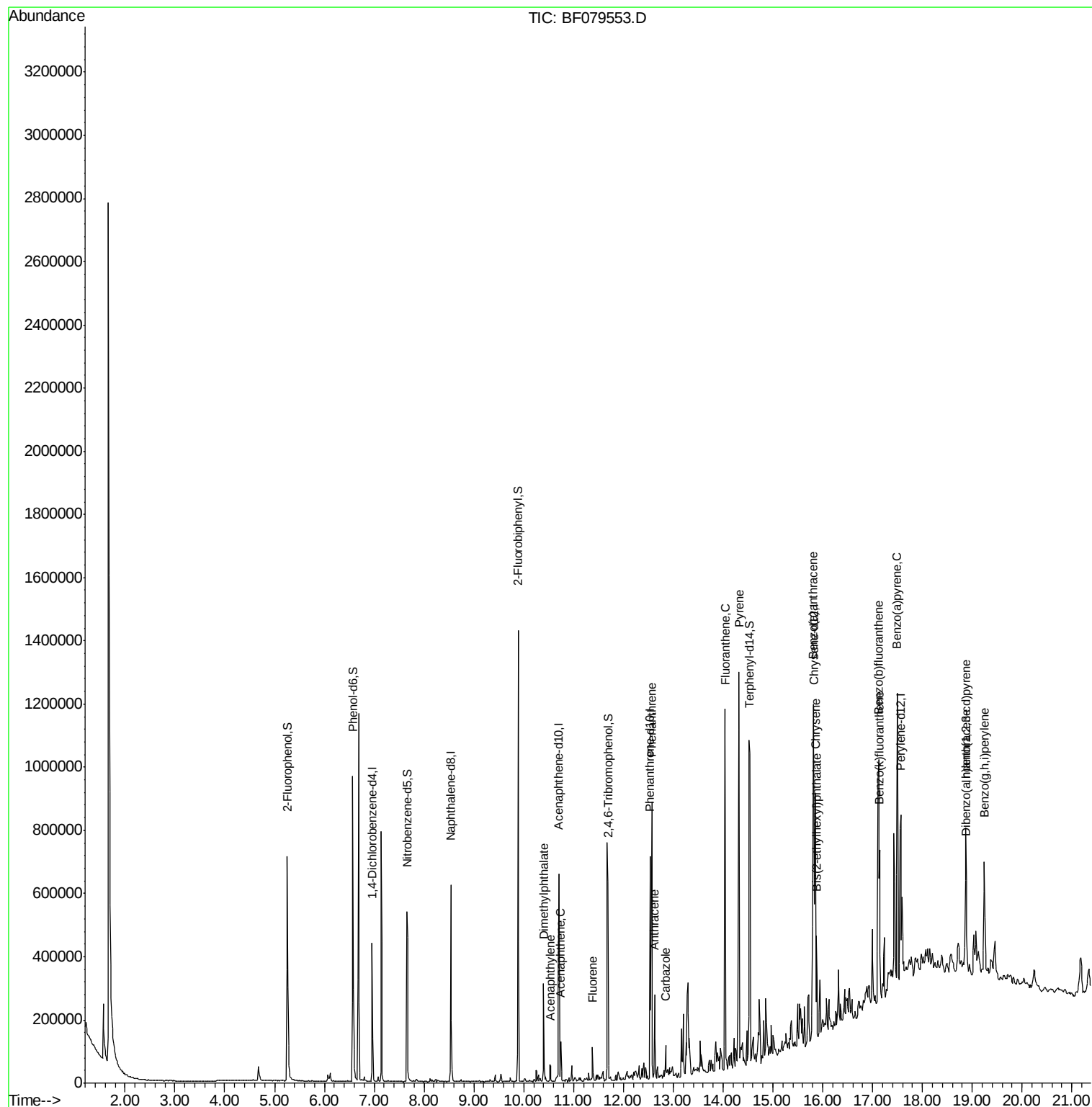
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079553.D
Acq On : 28 May 2015 19:31
Operator : TP/IZ
Sample : G2408-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
SB-25D

Quant Time: May 29 09:21:40 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 28 18:41:08 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM





#1

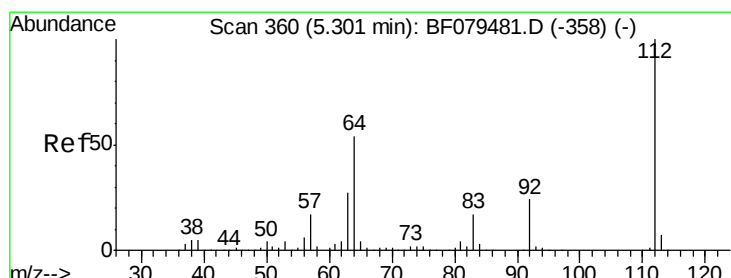
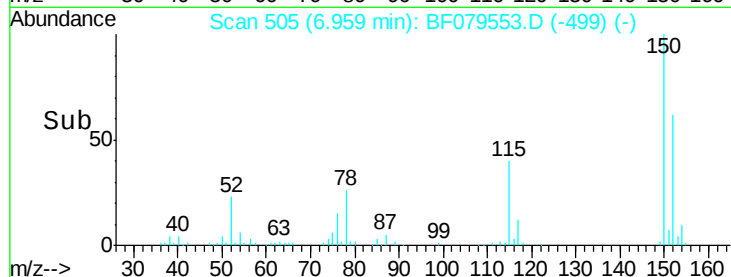
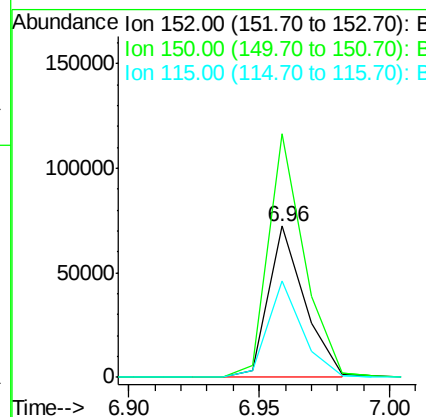
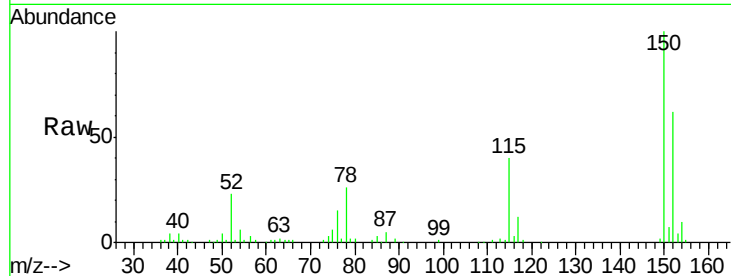
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.96 min Scan# 505
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
ClientSampleId :
SB-25D

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	124.0	186.0
115	64.0	49.6	74.4

Manual Integrations
APPROVED

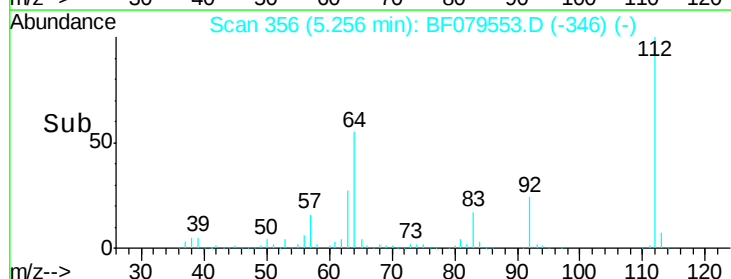
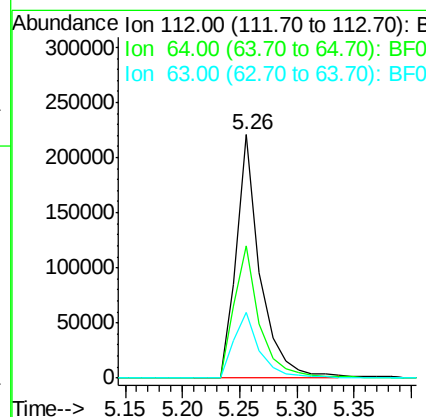
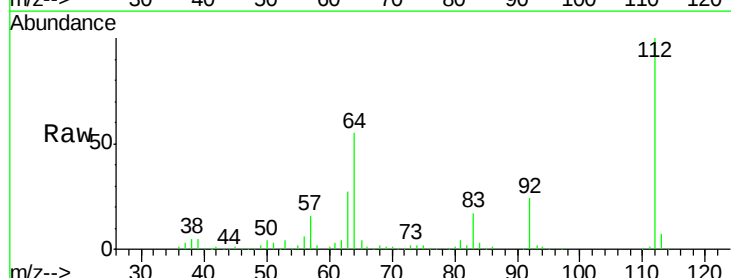
apatel
5/29/2015 5:12:43 PM

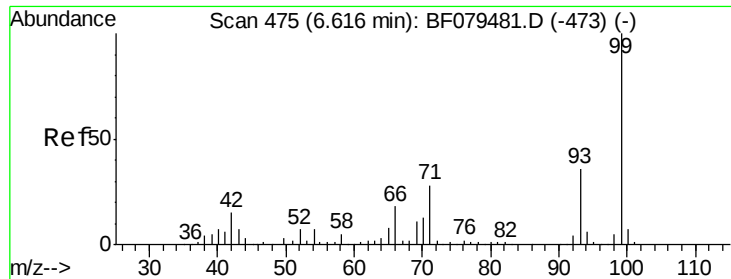


#5

2-Fluorophenol
Concen: 79.34 ng m
RT: 5.26 min Scan# 356
Delta R.T. 0.02 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	43.5	65.3
63	27.1	21.8	32.8





#7

Phenol-d6

Concen: 83.36 ng

RT: 6.57 min Scan# 471

Delta R.T. 0.01 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Instrument :

BNA_F

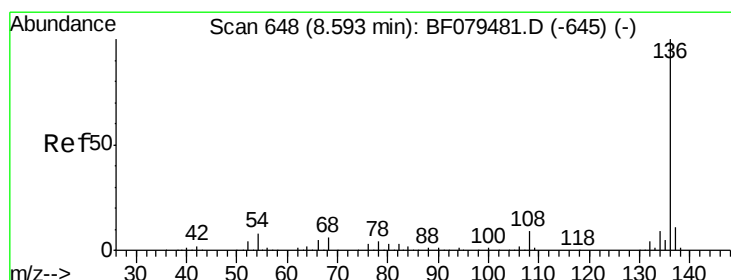
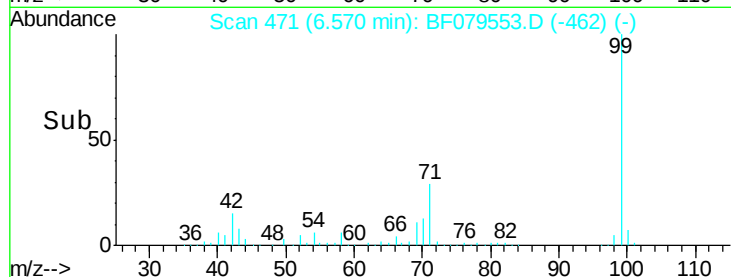
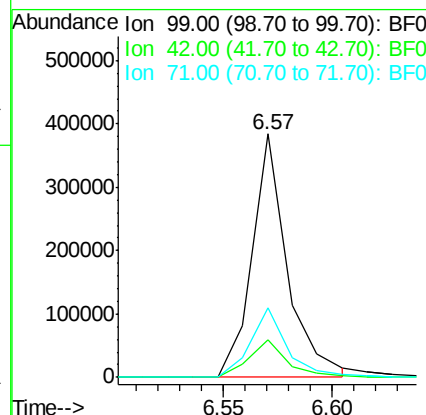
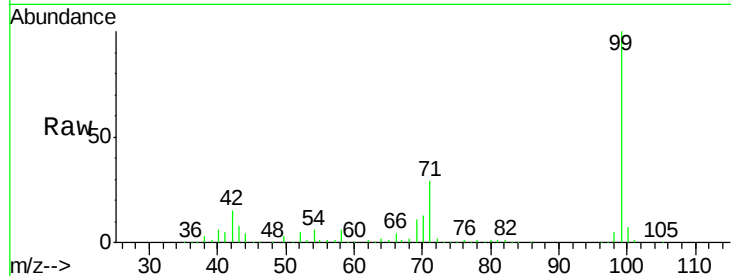
ClientSampled :

SB-25D

Tot Ion:	99	Resp:	433075
Ion Ratio	Lower	Upper	
99	100		
42	15.4	11.9	17.9
71	28.8	22.1	33.1

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM



#21

Naphthalene-d8

Concen: 20.00 ng

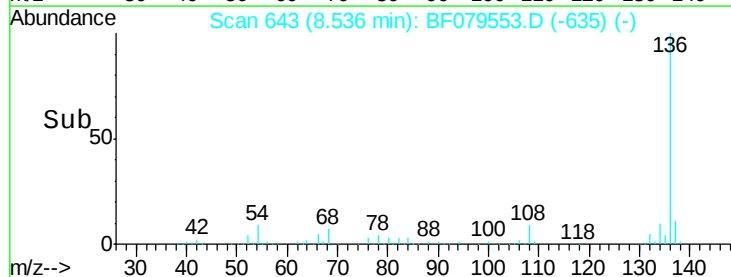
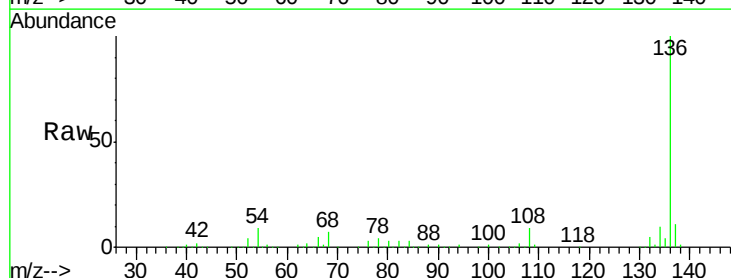
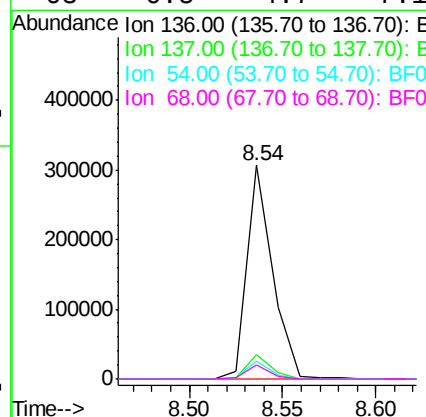
RT: 8.54 min Scan# 643

Delta R.T. -0.00 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Tgt Ion:	136	Resp:	293168
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	8.6	6.6	9.8
68	6.5	4.7	7.1





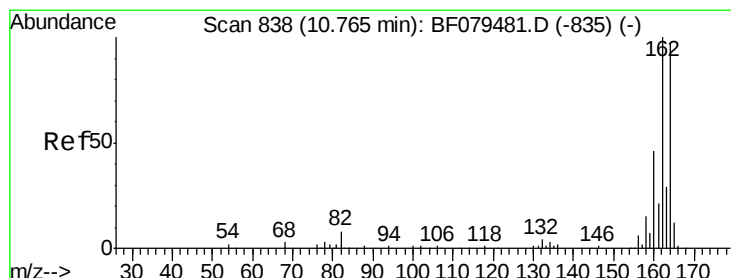
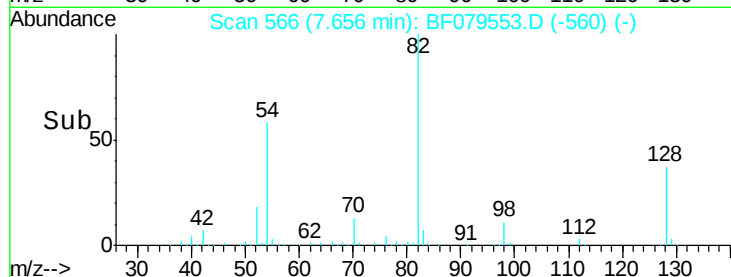
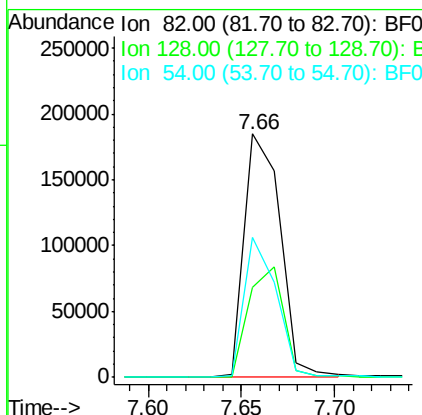
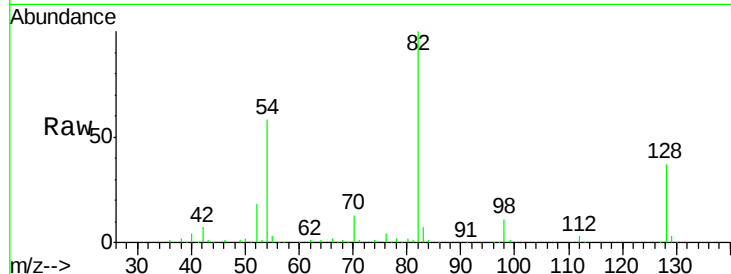
#23
Nitrobenzene-d5
Concen: 48.72 ng
RT: 7.66 min Scan# 566
Delta R.T. -0.01 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
ClientSampleId :
SB-25D

Tot Ion	Ratio	Resp	Lower	Upper
82	100	247106		
128	36.8	30.8	46.2	
54	57.6	42.8	64.2	

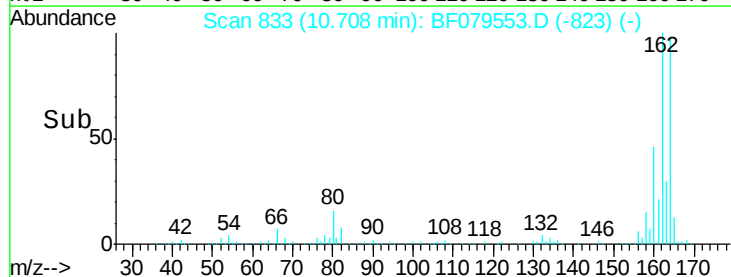
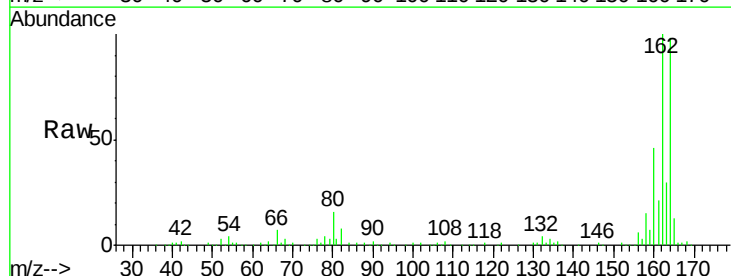
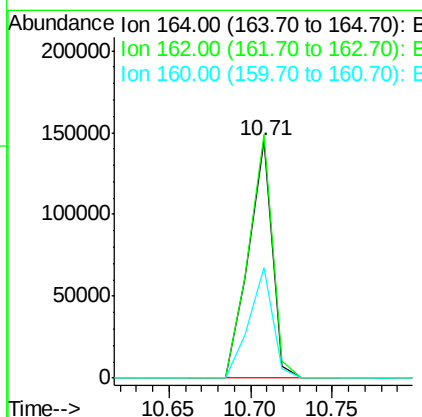
Manual Integrations
APPROVED

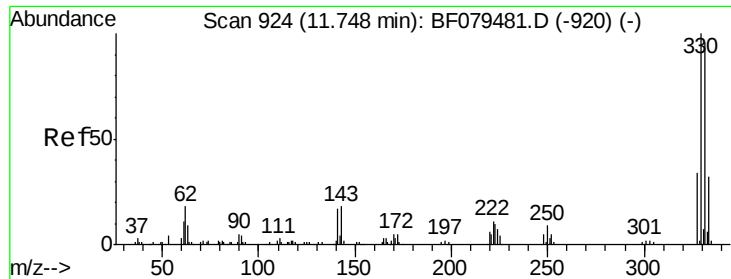
apatel
5/29/2015 5:12:43 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.71 min Scan# 833
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	146677		
162	102.4	82.6	124.0	
160	46.6	37.7	56.5	





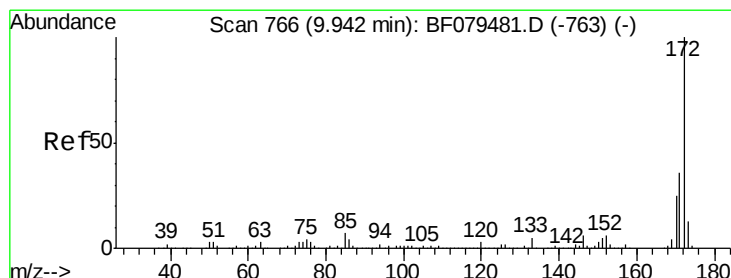
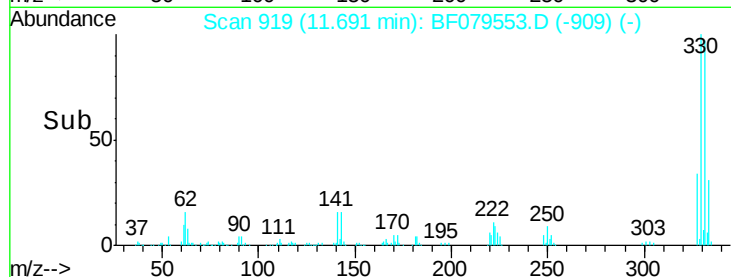
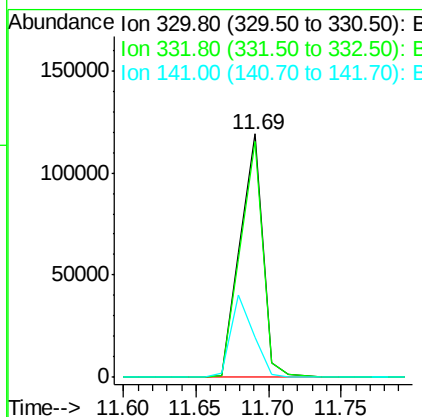
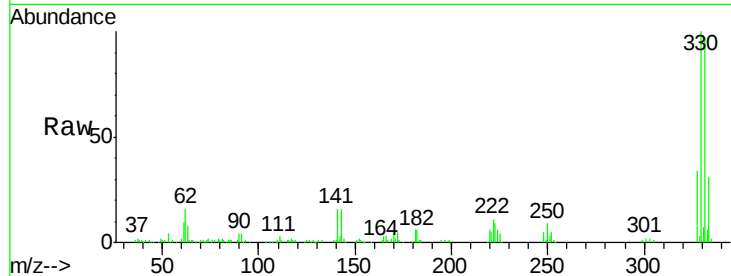
#41
 2,4,6-Tribromophenol
 Concen: 81.41 ng
 RT: 11.69 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF079553.D
 Acq: 28 May 2015 19:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-25D

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	96.0	0.0	0.0#
141	33.7	0.0	0.0#

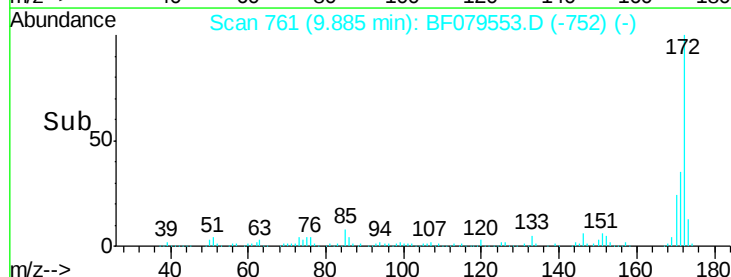
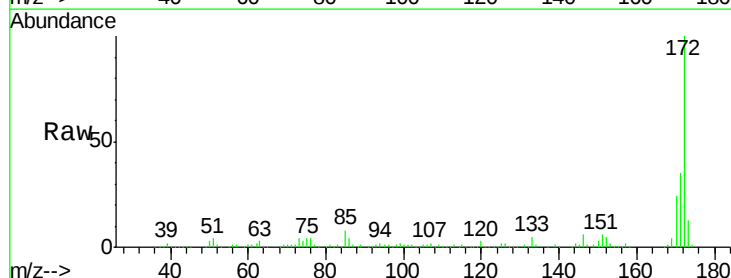
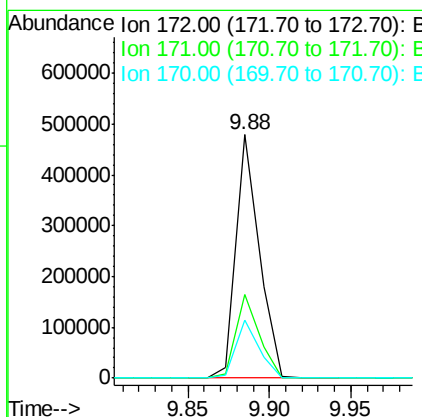
Manual Integrations
 APPROVED

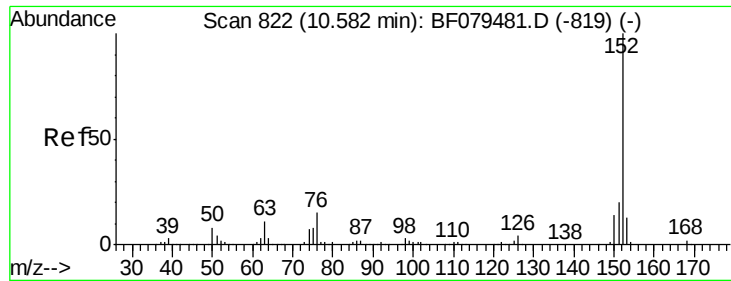
apatel
 5/29/2015 5:12:43 PM



#44
 2-Fluorobiphenyl
 Concen: 45.81 ng
 RT: 9.88 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BF079553.D
 Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	34.6	28.5	42.7
170	24.0	19.7	29.5





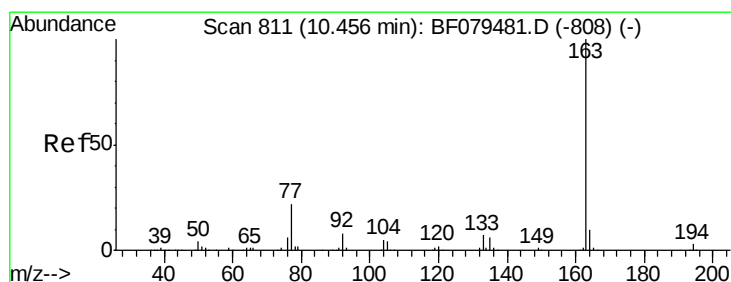
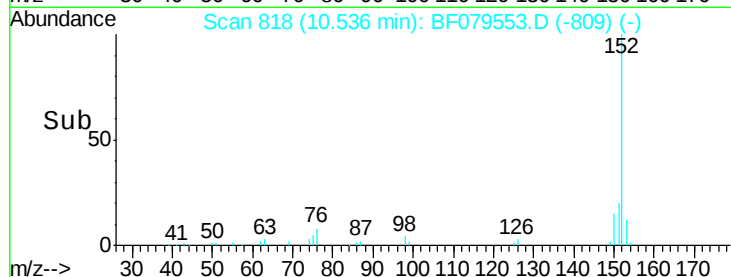
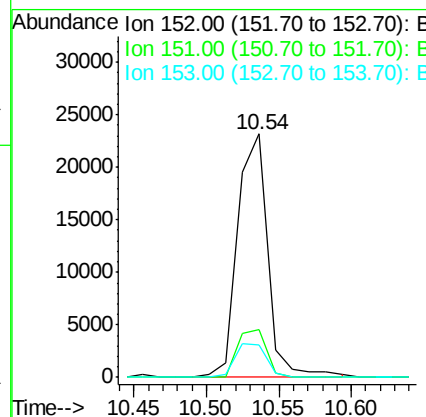
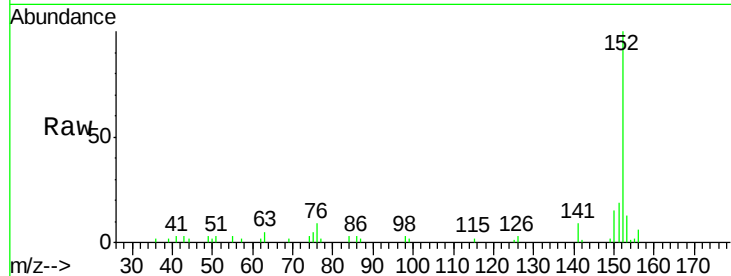
#48
Acenaphthylene
Concen: 2.25 ng
RT: 10.54 min Scan# 818
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
ClientSampleId :
SB-25D

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.8
153	13.5	10.7	16.1

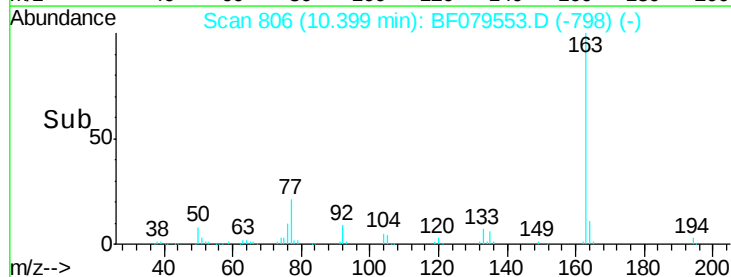
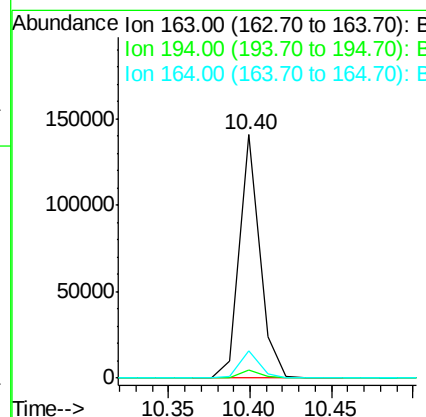
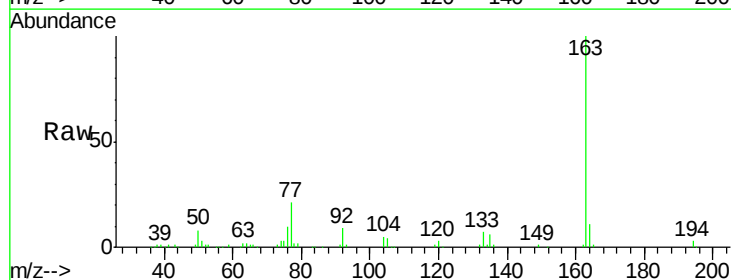
Manual Integrations
APPROVED

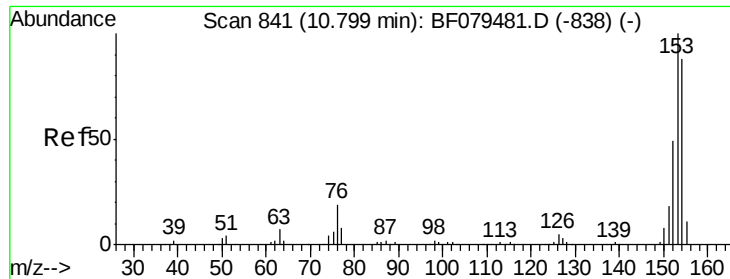
apatel
5/29/2015 5:12:43 PM



#49
Dimethylphthalate
Concen: 11.15 ng
RT: 10.40 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.4	3.6
164	11.1	8.2	12.4





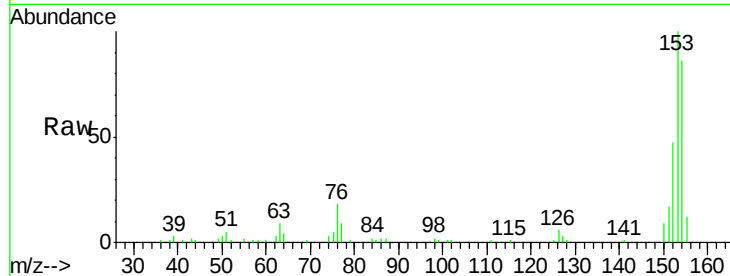
#51
Acenaphthene
Concen: 3.32 ng
RT: 10.74 min Scan# 836
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
ClientSampleId :
SB-25D

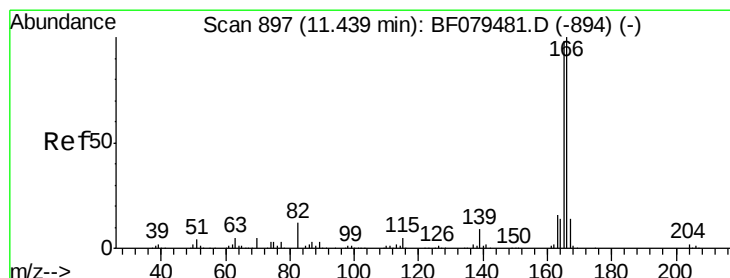
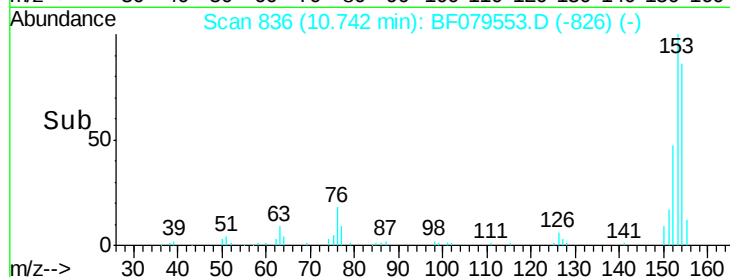
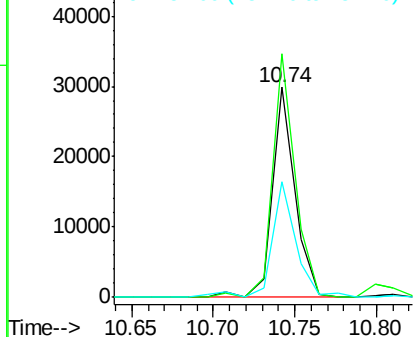
Tot Ion	Ratio	Lower	Upper
154	100		
153	116.1	91.1	136.7
152	54.9	44.6	66.8

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM

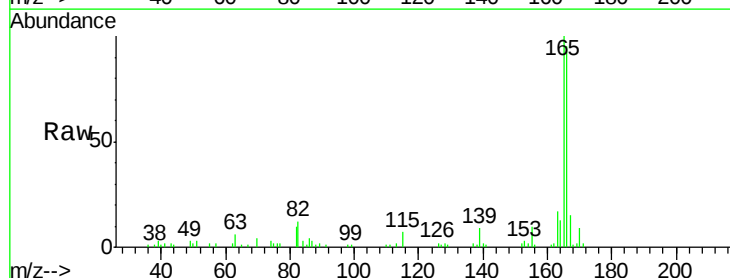


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

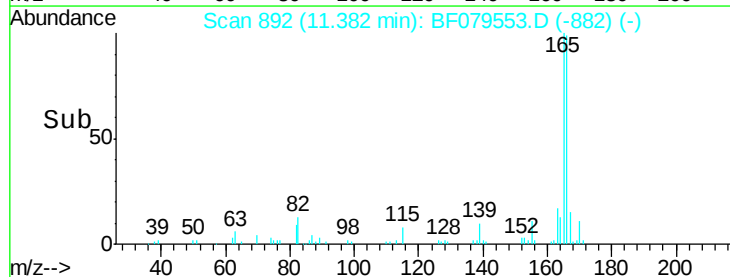
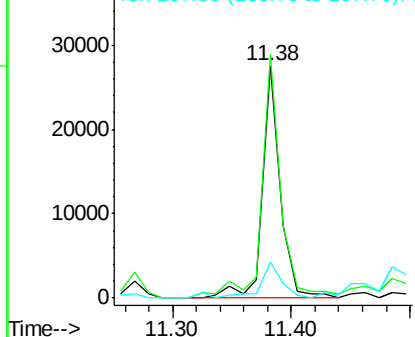


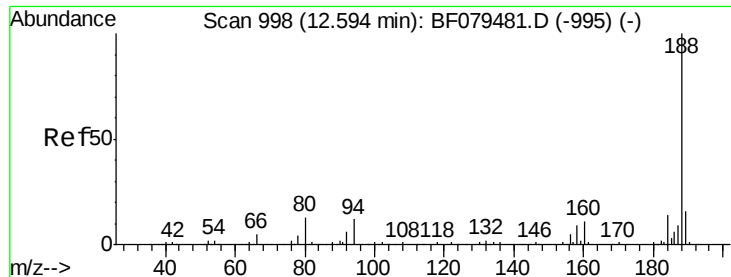
#57
Fluorene
Concen: 2.79 ng
RT: 11.38 min Scan# 892
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Lower	Upper
166	100		
165	104.8	78.6	117.8
167	15.4	10.8	16.2



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





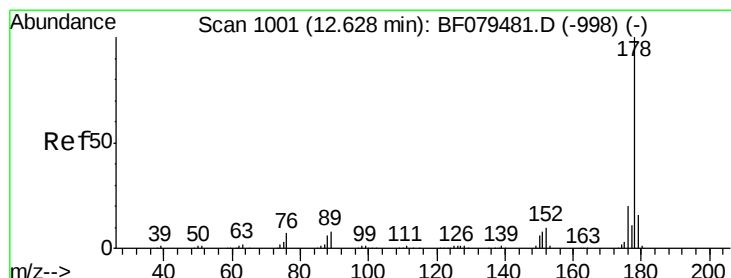
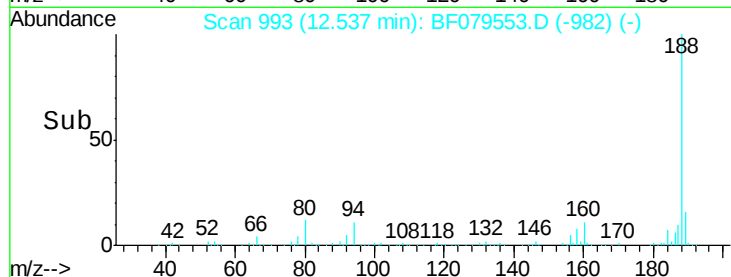
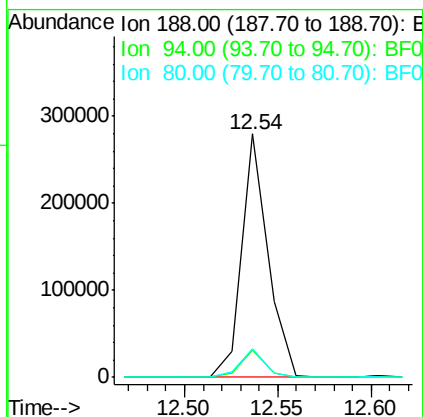
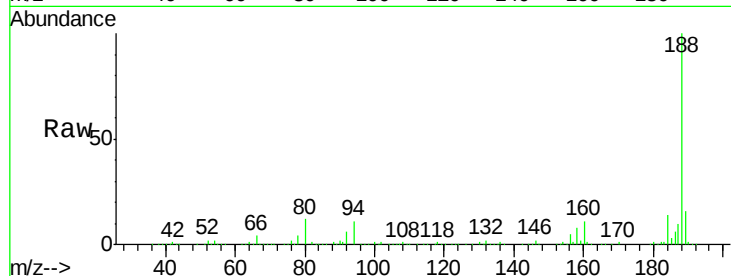
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.54 min Scan# 993
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
Client Sampled :
SB-25D

Tot Ion	Ratio	Resp	Lower	Upper
188	100	274569		
94	11.4		9.8	14.6
80	11.7		10.5	15.7

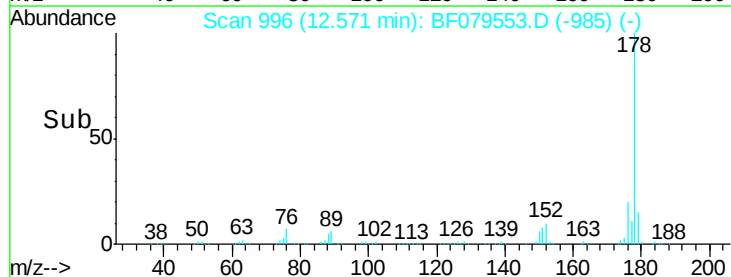
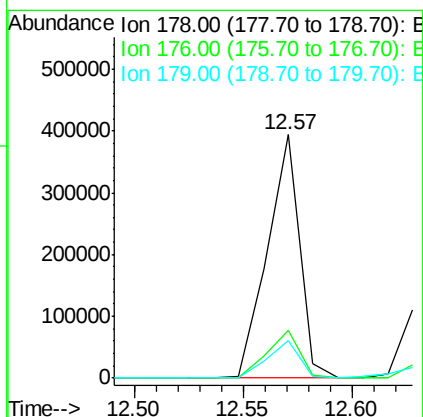
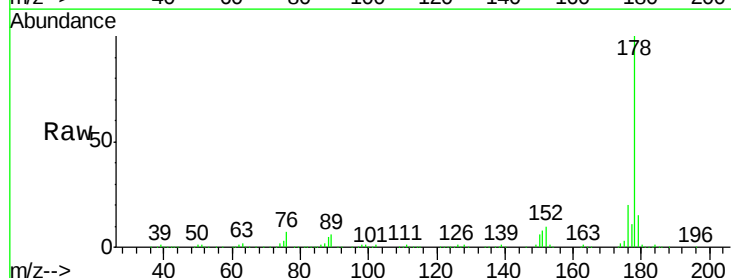
Manual Integrations
APPROVED

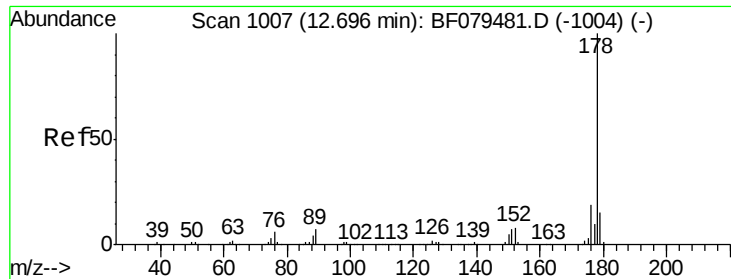
apatel
5/29/2015 5:12:43 PM



#70
Phenanthrene
Concen: 27.22 ng
RT: 12.57 min Scan# 996
Delta R.T. -0.00 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	410079		
176	19.6		15.7	23.5
179	15.3		12.4	18.6





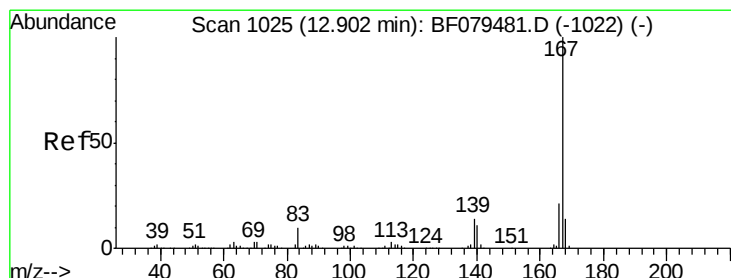
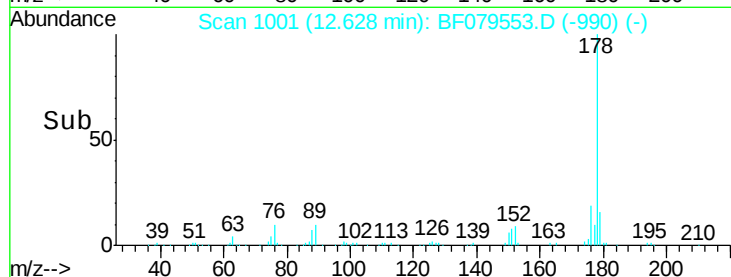
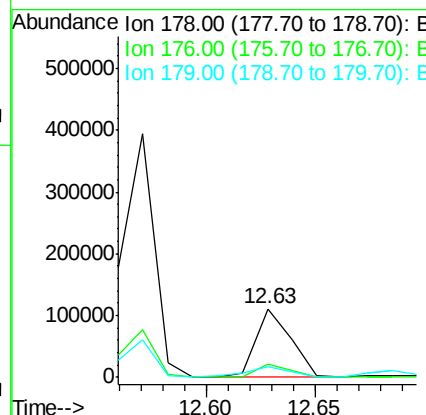
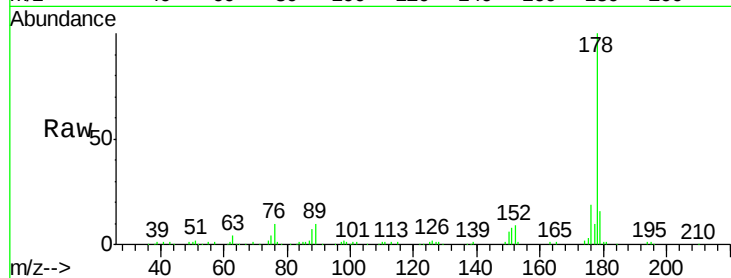
#71
 Anthracene
 Concen: 8.06 ng
 RT: 12.63 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: BF079553.D
 Acq: 28 May 2015 19:31

Instrument :
 BNA_F
 ClientSampled :
 SB-25D

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.3	22.9
179	15.5	12.2	18.4

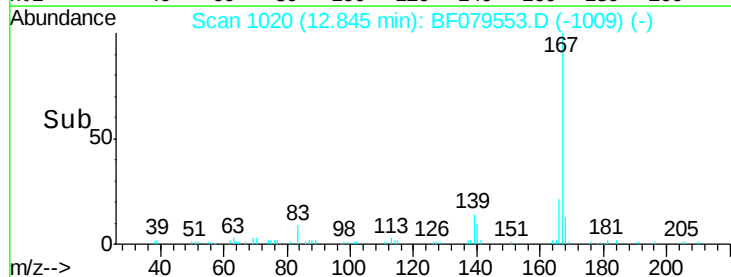
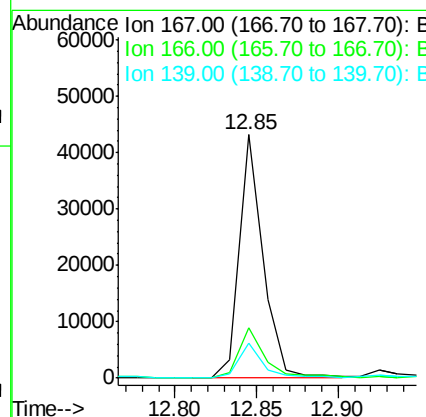
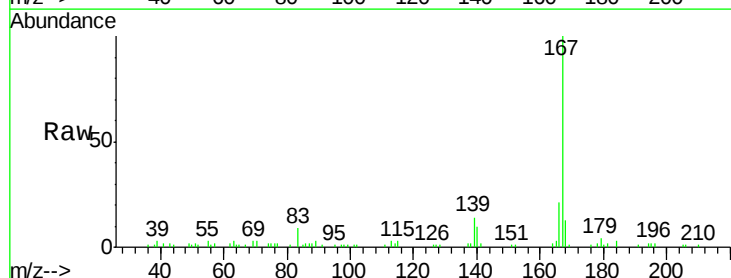
Manual Integrations
 APPROVED

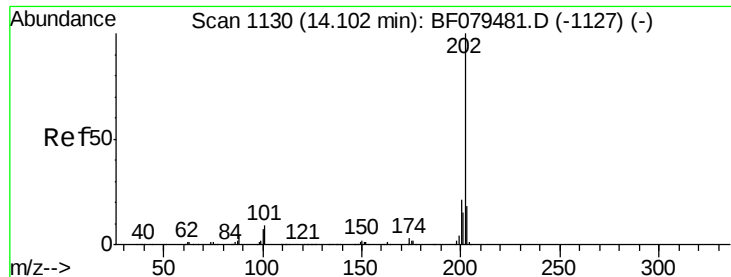
apatel
 5/29/2015 5:12:43 PM



#72
 Carbazole
 Concen: 2.95 ng
 RT: 12.85 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: BF079553.D
 Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.5	17.0	25.4
139	14.3	11.2	16.8





#74

Fluoranthene

Concen: 43.76 ng

RT: 14.05 min Scan# 1125

Delta R.T. 0.01 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Instrument :

BNA_F

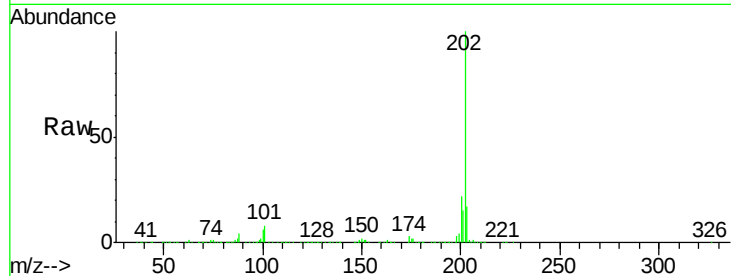
ClientSampleId :

SB-25D

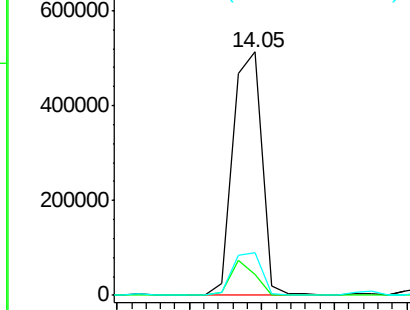
Tot Ion	Ratio	Resp	Lower	Upper
202	100	706925		
101	8.4	0.0	29.3	
203	17.4	0.0	37.6	

Manual Integrations
APPROVED

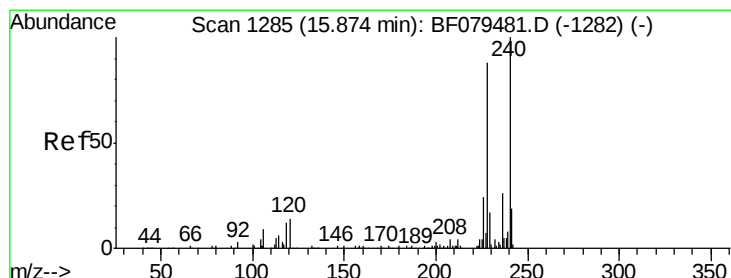
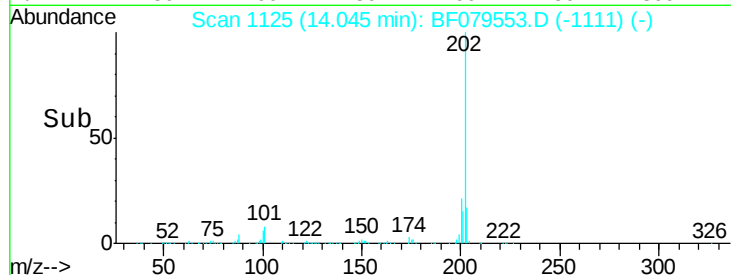
apatel
5/29/2015 5:12:43 PM



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



Time--> 13.95 14.00 14.05 14.10



#75

Chrysene-d12

Concen: 20.00 ng

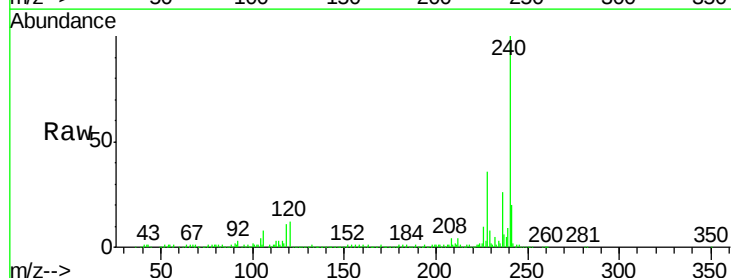
RT: 15.82 min Scan# 1280

Delta R.T. -0.02 min

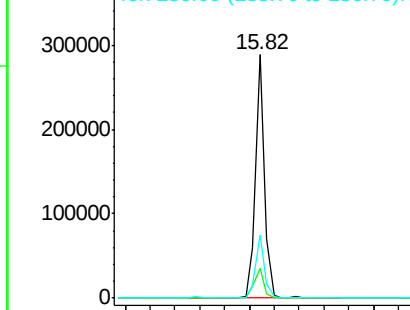
Lab File: BF079553.D

Acq: 28 May 2015 19:31

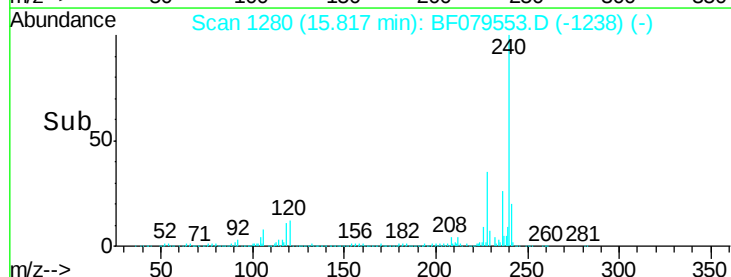
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	297655		
120	12.2	10.8	16.2	
236	26.0	21.0	31.6	

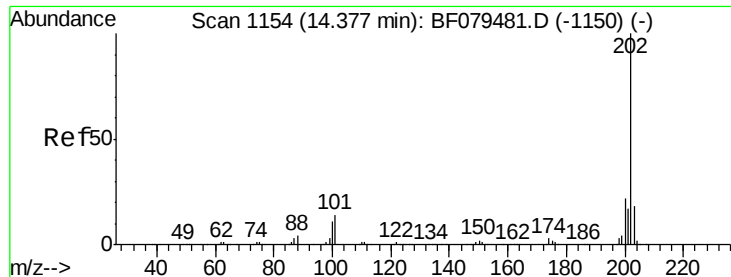


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time--> 15.60 15.80 16.00





#77

Pvrene

Concen: 35.51 ng

RT: 14.32 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Instrument :

BNA_F

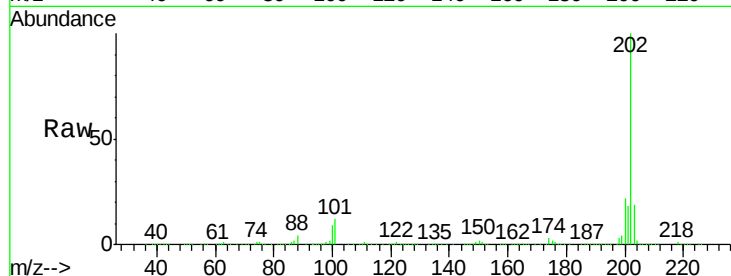
ClientSampled :

SB-25D

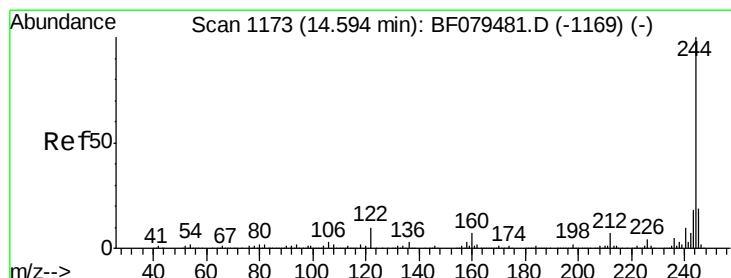
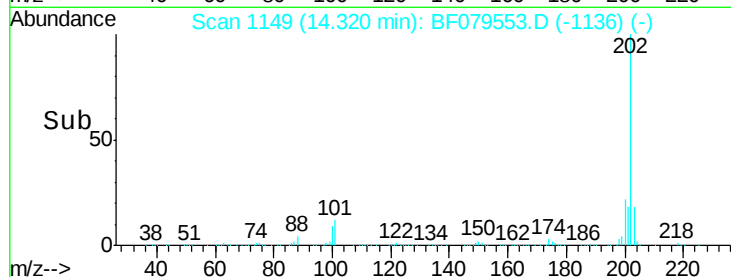
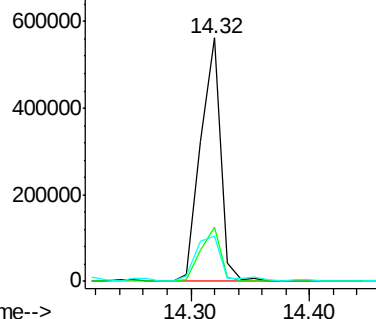
Tot Ion:	202	Resp:	654825
Ion Ratio		Lower	Upper
202	100		
200	22.4	17.5	26.3
203	18.6	14.4	21.6

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 39.02 ng

RT: 14.54 min Scan# 1168

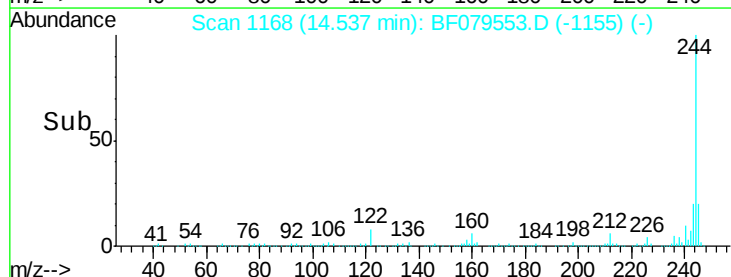
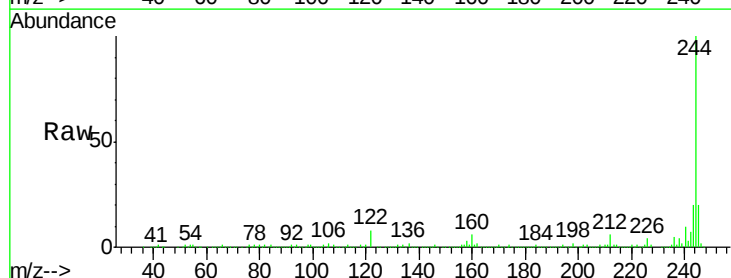
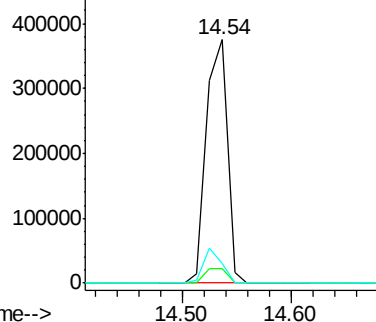
Delta R.T. -0.00 min

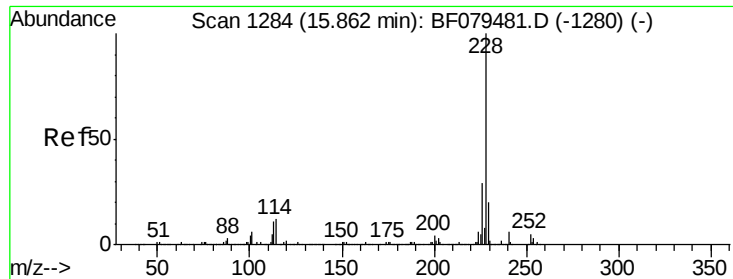
Lab File: BF079553.D

Acq: 28 May 2015 19:31

Tgt Ion:	244	Resp:	494862
Ion Ratio		Lower	Upper
244	100		
212	6.1	5.2	7.8
122	8.2	8.0	12.0

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





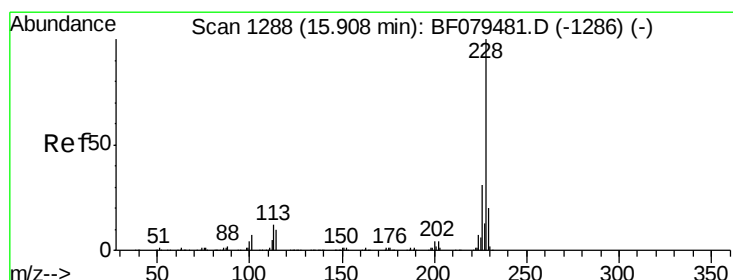
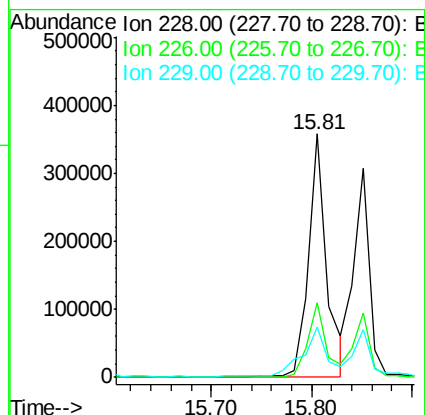
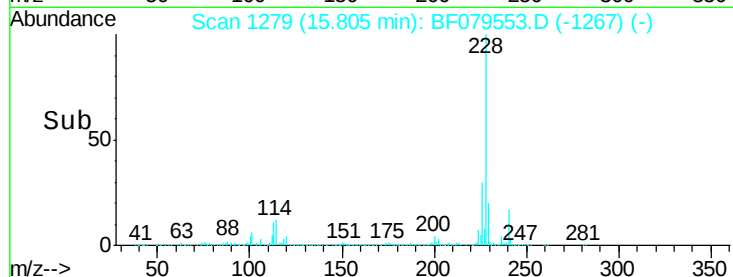
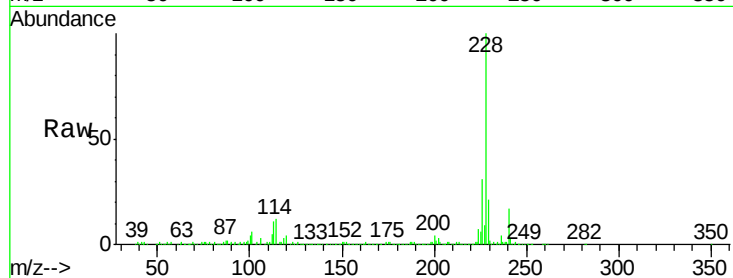
#80
Benzo(a)anthracene
Concen: 26.08 ng
RT: 15.81 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
ClientSampleId :
SB-25D

Tot Ion:	228	Resp:	446644
Ion Ratio	Lower	Upper	
228	100		
226	30.6	22.8	34.2
229	20.7	15.9	23.9

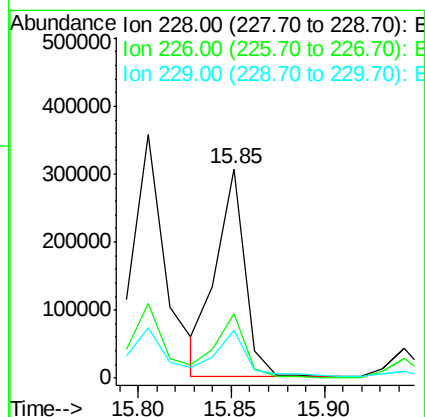
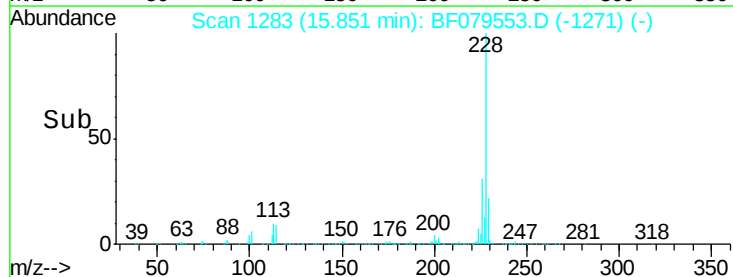
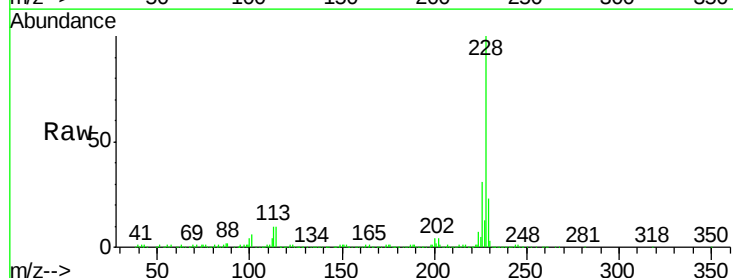
Manual Integrations
APPROVED

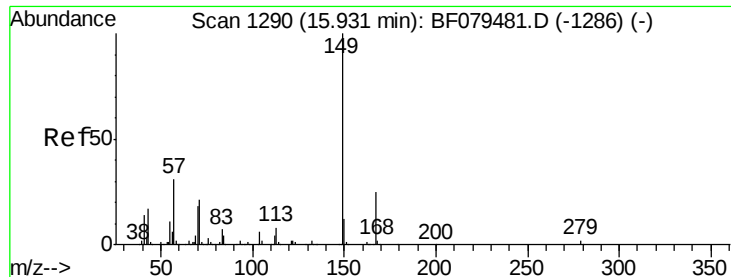
apatel
5/29/2015 5:12:43 PM



#82
Chrysene
Concen: 20.50 ng
RT: 15.85 min Scan# 1283
Delta R.T. -0.02 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion:	228	Resp:	333612
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.0	37.4
229	22.9	15.9	23.9





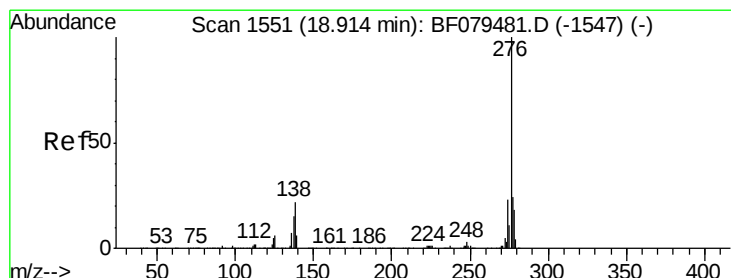
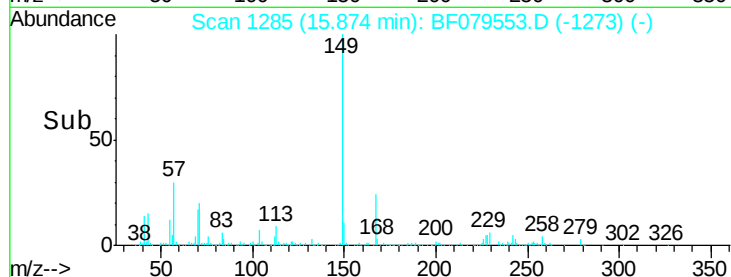
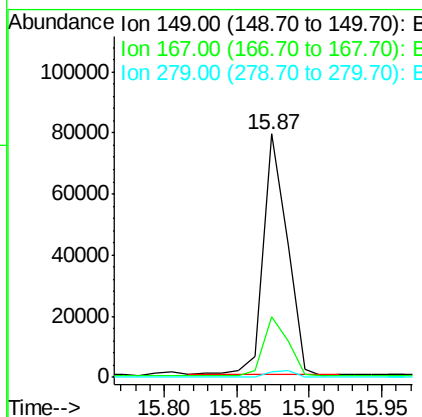
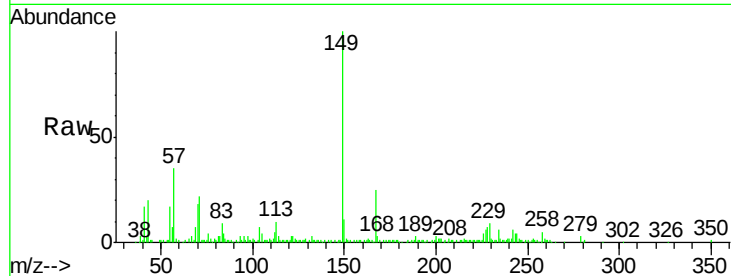
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 7.54 ng
 RT: 15.87 min Scan# 1285
 Delta R.T. -0.03 min
 Lab File: BF079553.D
 Acq: 28 May 2015 19:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-25D

Tot Ion	Ratio	Lower	Upper
149	100		
167	24.8	20.2	30.4
279	2.5	2.0	3.0

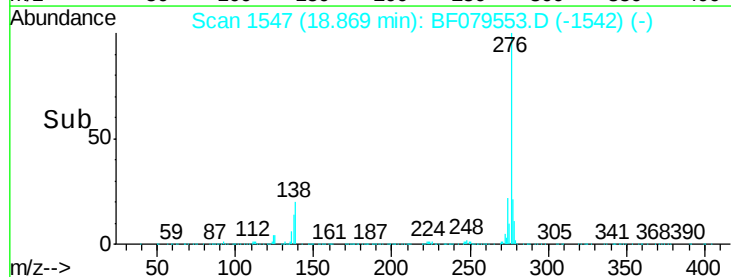
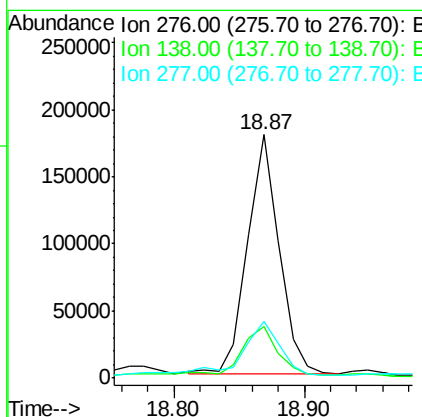
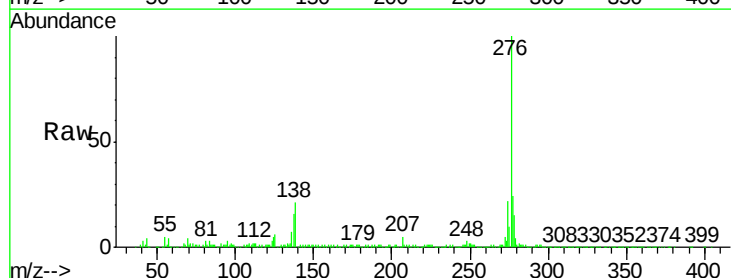
Manual Integrations
 APPROVED

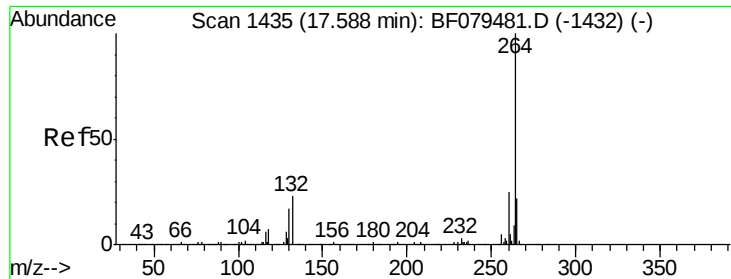
apatel
 5/29/2015 5:12:43 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.36 ng
 RT: 18.87 min Scan# 1547
 Delta R.T. -0.15 min
 Lab File: BF079553.D
 Acq: 28 May 2015 19:31

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.9	21.4	32.2
277	26.0	19.8	29.6





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.57 min Scan# 1433

Delta R.T. -0.10 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Instrument :

BNA_F

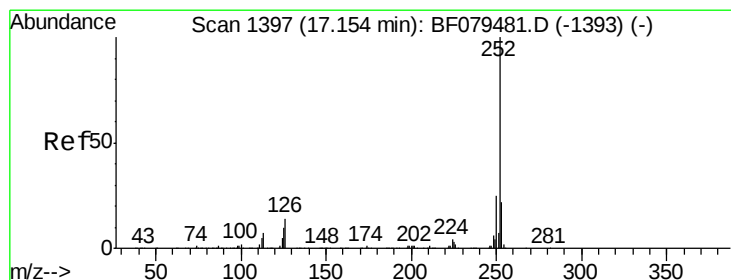
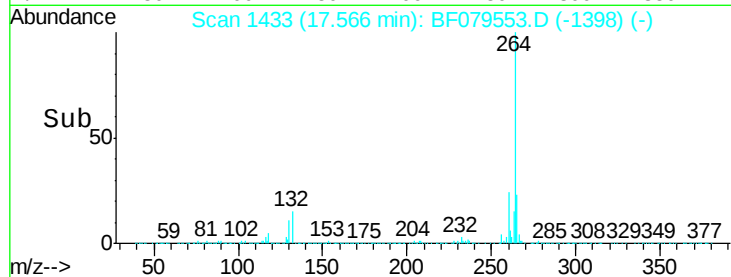
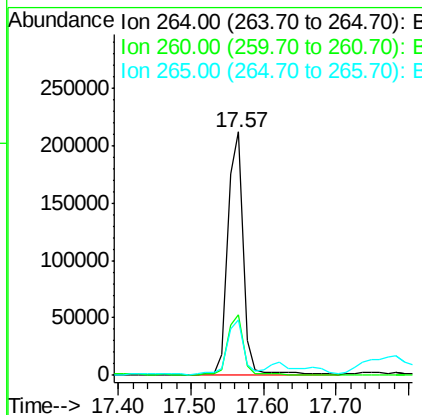
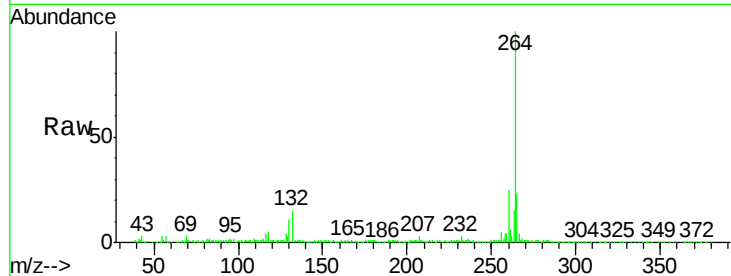
ClientSampled :

SB-25D

Tot Ion:	264	Resp:	311353
Ion Ratio	Lower	Upper	
264	100		
260	25.0	19.8	29.8
265	23.0	17.8	26.6

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM



#87

Benzo(b)fluoranthene

Concen: 30.39 ng m

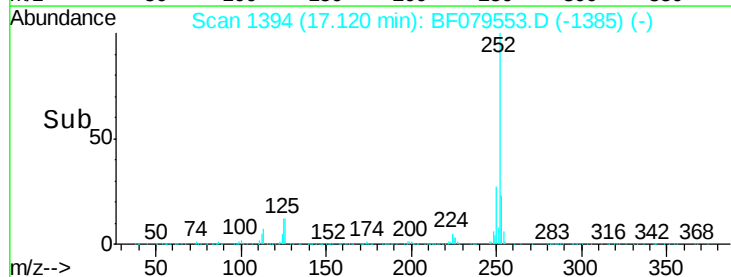
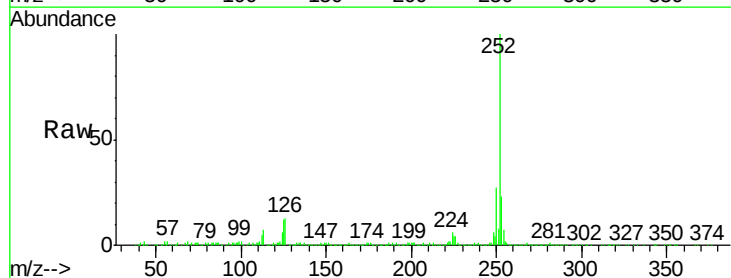
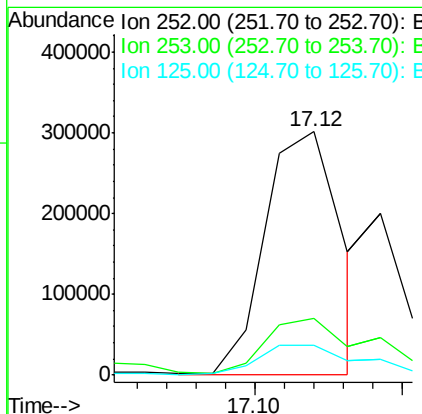
RT: 17.12 min Scan# 1394

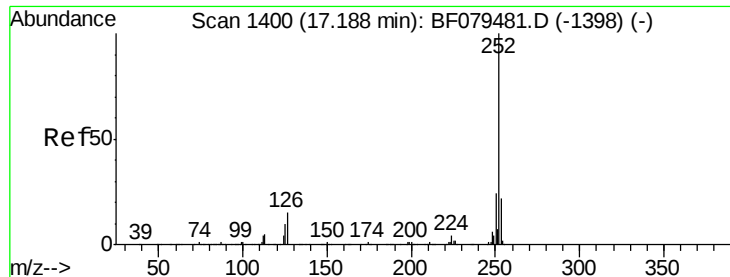
Delta R.T. -0.08 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Tgt Ion:	252	Resp:	539602
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.6	26.4
125	12.1	7.8	11.6#





#88

Benzo(k)fluoranthene

Concen: 11.82 ng m

RT: 17.14 min Scan# 1396

Delta R.T. -0.09 min

Lab File: BF079553.D

Acq: 28 May 2015 19:31

Instrument :

BNA_F

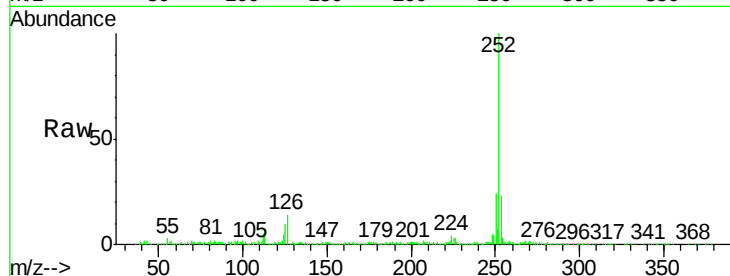
ClientSampled :

SB-25D

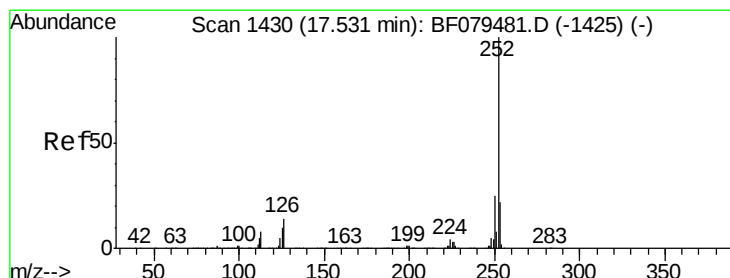
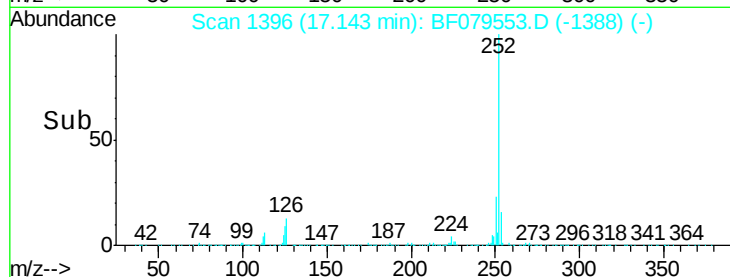
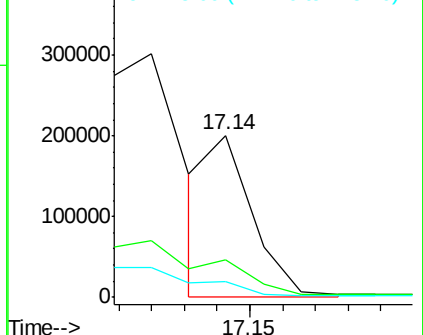
Tot Ion:	252	Resp:	187686
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.2	25.8
125	9.8	6.8	10.2

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM



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: 27.36 ng

RT: 17.50 min Scan# 1427

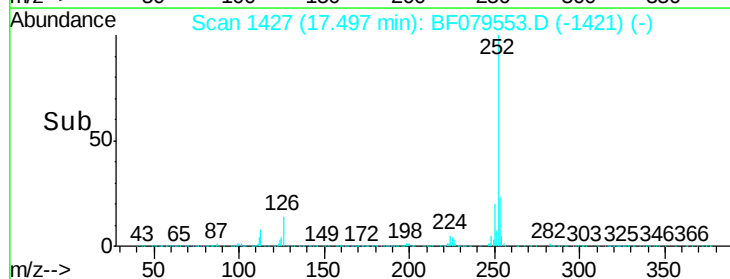
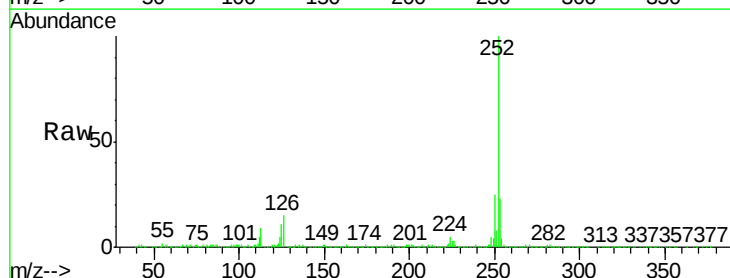
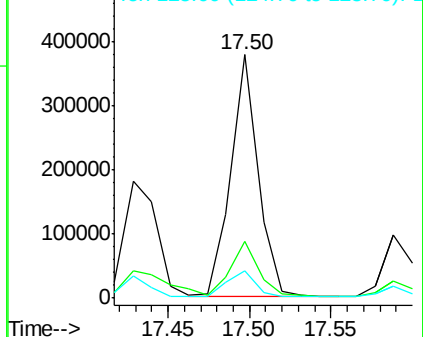
Delta R.T. -0.11 min

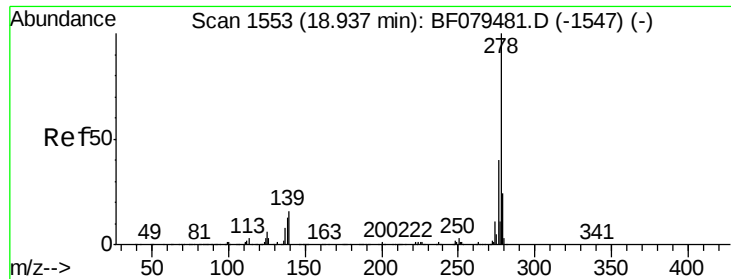
Lab File: BF079553.D

Acq: 28 May 2015 19:31

Tgt Ion:	252	Resp:	437722
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.8	26.8
125	11.2	7.9	11.9

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





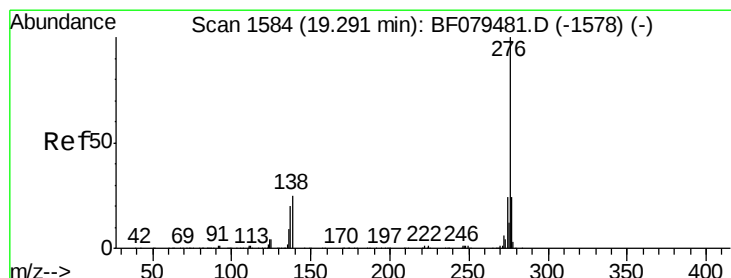
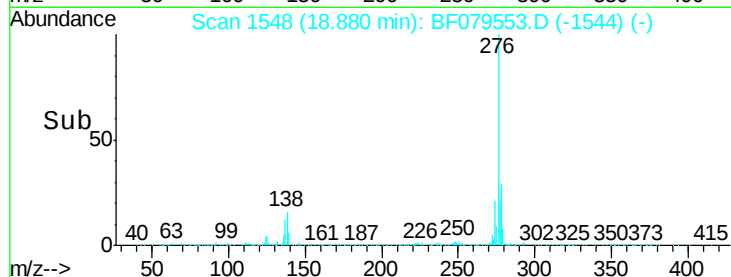
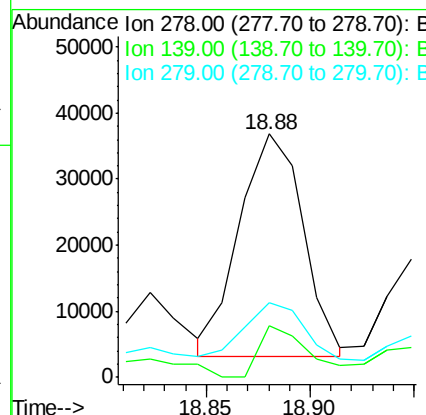
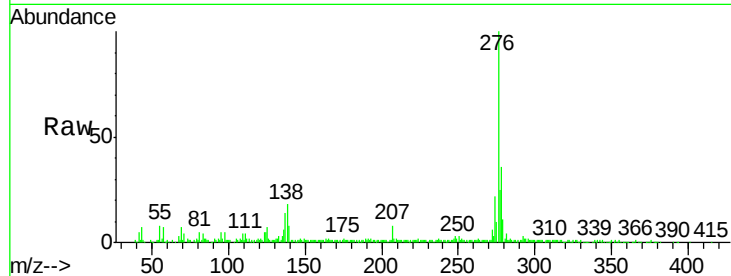
#90
Dibenzo(a,h)anthracene
Concen: 3.00 ng/mL
RT: 18.88 min Scan# 1548
Delta R.T. -0.16 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Instrument :
BNA_F
ClientSampleID :
SB-25D

Tot Ion:	278	Resp:	71989
Ion Ratio	Lower	Upper	
278	100		
139	21.4	12.8	19.2#
279	30.7	19.1	28.7#

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:43 PM



#91
Benzo(g,h,i)perylene
Concen: 16.27 ng/mL
RT: 19.25 min Scan# 1580
Delta R.T. -0.16 min
Lab File: BF079553.D
Acq: 28 May 2015 19:31

Tgt Ion:	276	Resp:	281457
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.1	28.7
138	22.4	20.1	30.1

