

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
 Data File : BF083585.D
 Acq On : 8 Dec 2015 6:43
 Operator : UM/IZ
 Sample : G4584-08DL 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Manual Integrations
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 12/8/2015 6:15:52 PM

Quant Time: Dec 08 07:47:05 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.72	152	149201	20.00	ng	-0.05
21) Naphthalene-d8	7.63	136	540064	20.00	ng	-0.05
38) Acenaphthene-d10	10.41	164	230433	20.00	ng	-0.06
63) Phenanthrene-d10	12.81	188	362595	20.00	ng	-0.05
75) Chrysene-d12	17.01	240	350261	20.00	ng	-0.03
86) Perylene-d12	18.65	264	256044	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.01	112	105450	10.72	ng	-0.02
7) Phenol-d6	5.30	99	146460	10.81	ng	-0.02
23) Nitrobenzene-d5	6.56	82	89814	7.77	ng	-0.05
41) 2,4,6-Tribromophenol	11.71	330	17644	8.30	ng	-0.05
44) 2-Fluorobiphenyl	9.37	172	138770	8.17	ng	-0.06
78) Terphenyl-d14	15.44	244	103993	6.61	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	7.68	128	4665413	162.29	ng	96
37) 2-Methylnaphthalene	8.76	142	608890	34.25	ng	99
45) 1,1'-Biphenyl	9.52	154	259414	12.67	ng	97
48) Acenaphthylene	10.18	152	285910	11.32	ng	98
51) Acenaphthene	10.46	154	616667	42.41	ng	100
54) Dibenzofuran	10.76	168	56564	2.81	ng	99
57) Fluorene	11.30	166	360411	20.57	ng	99
70) Phenanthrene	12.85	178	2044197	96.86	ng	99
71) Anthracene	12.93	178	533839	24.80	ng	99
74) Fluoranthene	14.77	202	1121034	53.59	ng	98
77) Pyrene	15.14	202	1433881	54.72	ng	98
80) Benzo(a)anthracene	17.00	228	492450m	24.03	ng	
82) Chrysene	17.05	228	419743	20.56	ng	99
85) Indeno(1,2,3-cd)pyrene	19.91	276	157791	9.02	ng	# 100
87) Benzo(b)fluoranthene	18.27	252	388869m	27.04	ng	
88) Benzo(k)fluoranthene	18.29	252	85494m	5.80	ng	
89) Benzo(a)pyrene	18.60	252	367168m	26.25	ng	
90) Dibenzo(a,h)anthracene	19.91	278	31761m	2.36	ng	
91) Benzo(a,h,i)perylene	20.26	276	182758	13.48	ng	97

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

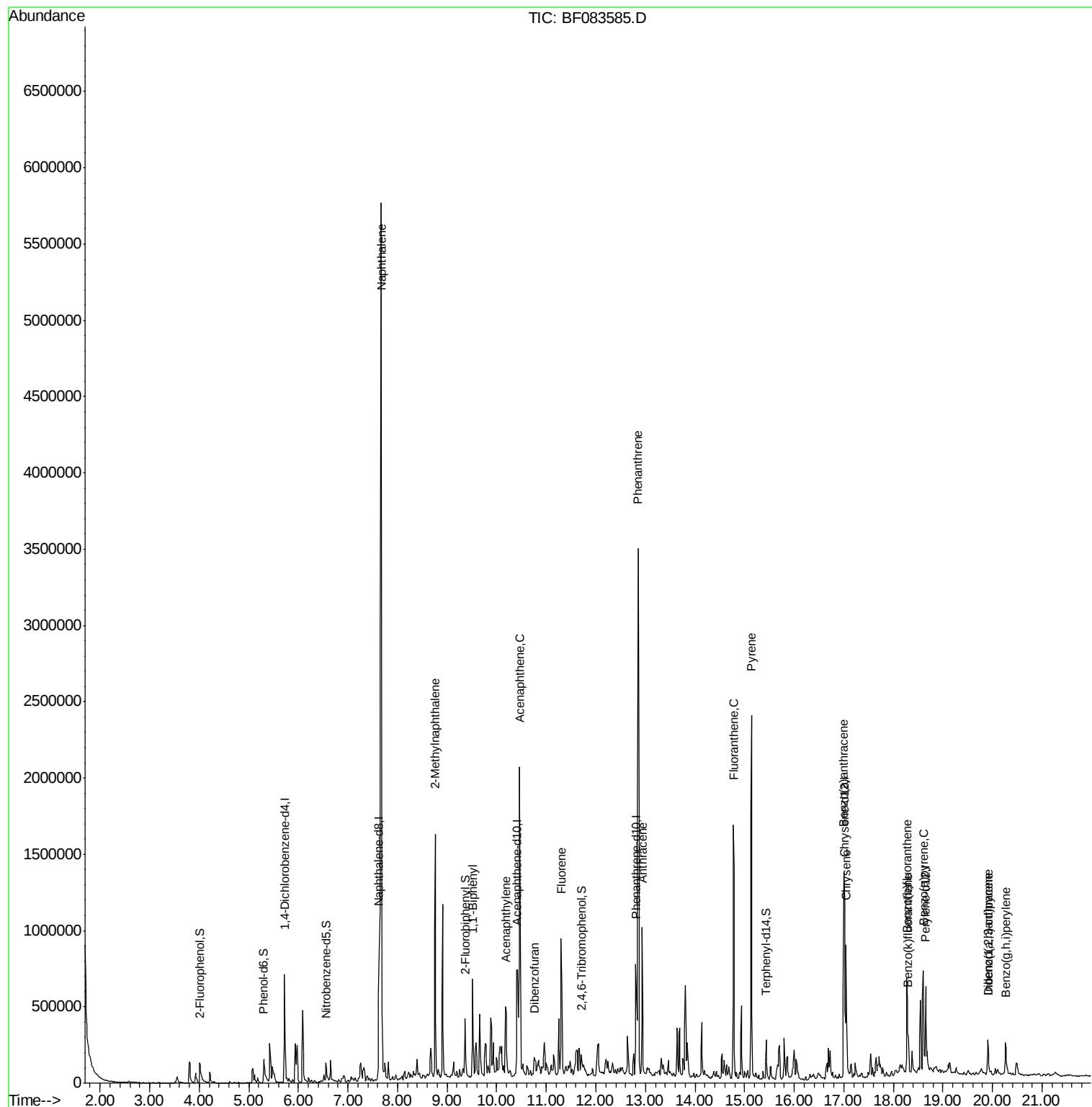
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
Data File : BF083585.D
Acq On : 8 Dec 2015 6:43
Operator : UM/IZ
Sample : G4584-08DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

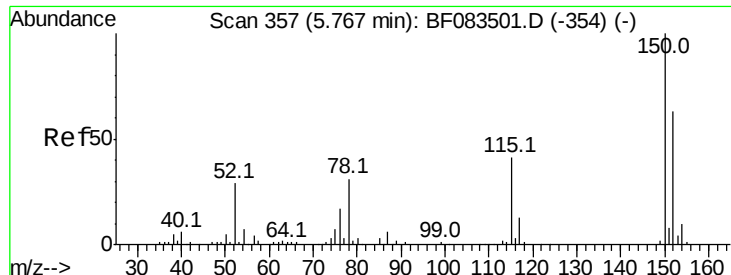
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

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Quant Time: Dec 08 07:47:05 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

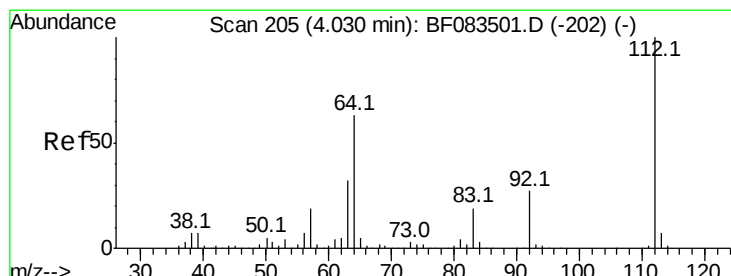
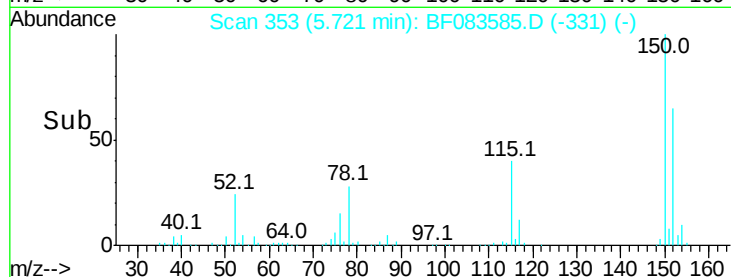
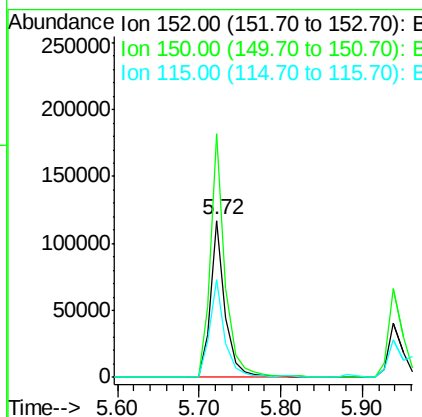
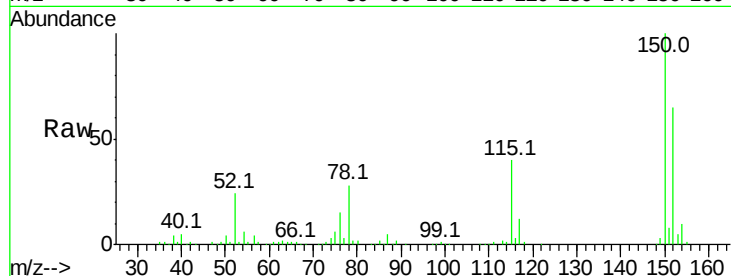
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.72 min Scan# 353
Delta R.T. -0.05 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	126.5	189.7
115	62.0	52.3	78.5

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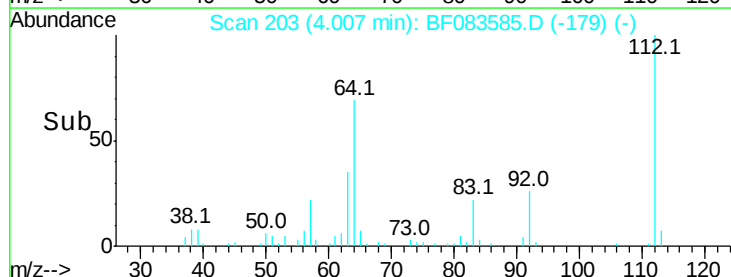
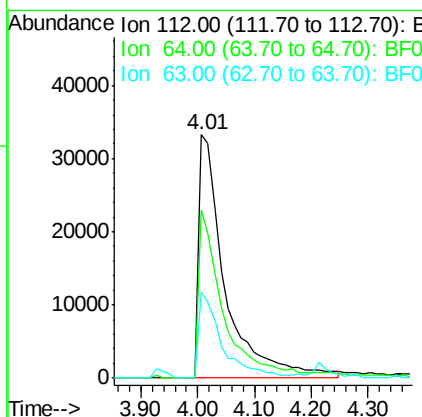
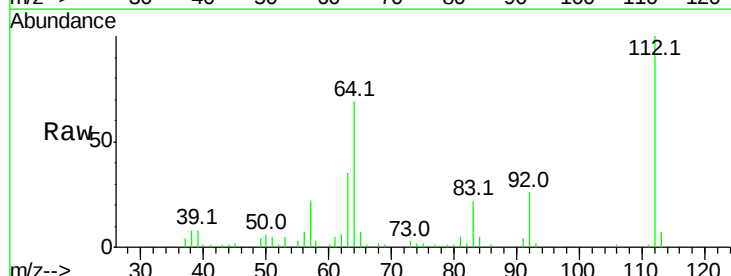
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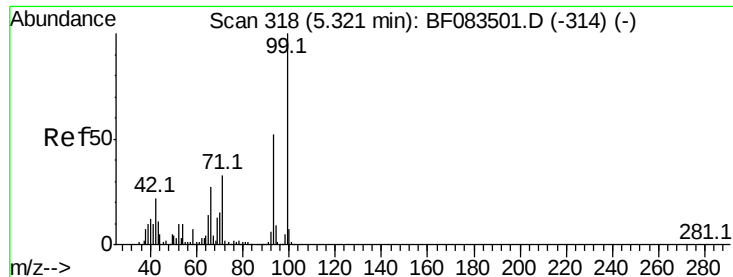


#5

2-Fluorophenol
Concen: 10.72 ng
RT: 4.01 min Scan# 203
Delta R.T. -0.02 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.0	50.5	75.7
63	35.3	25.8	38.6





#7

Phenol-d6

Concen: 10.81 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Instrument :

BNA_F

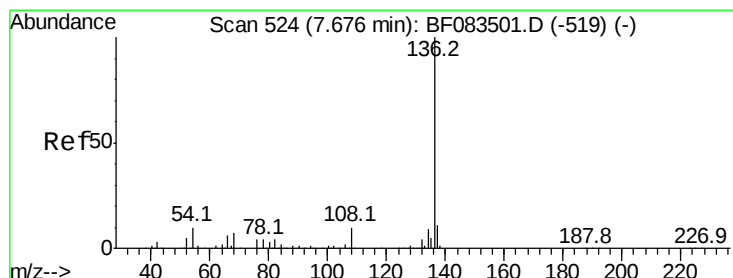
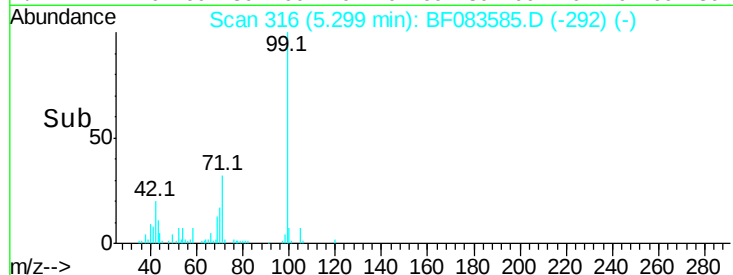
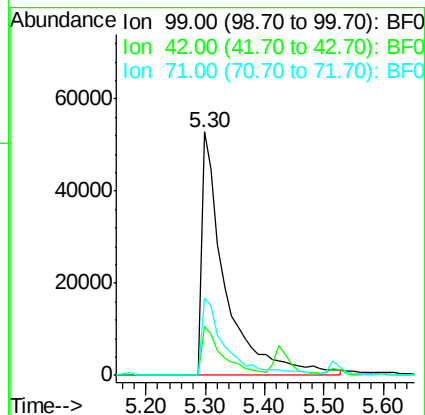
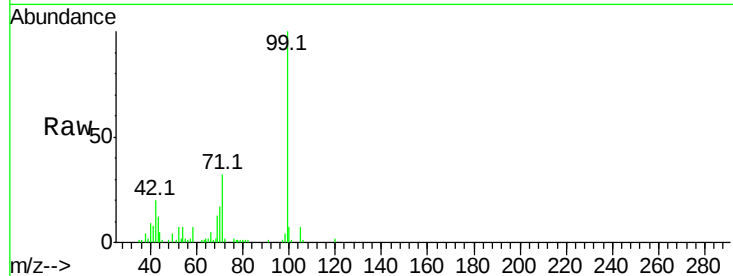
ClientSampleId :

SB-P3WC-15(0-8)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		146460		
42	20.2	17.3	25.9		
71	31.8	26.6	40.0		

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#21

Naphthalene-d8

Concen: 20.00 ng

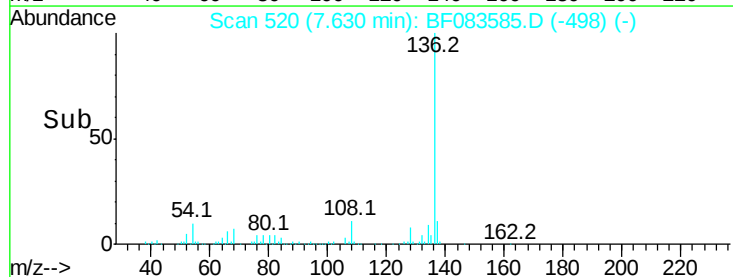
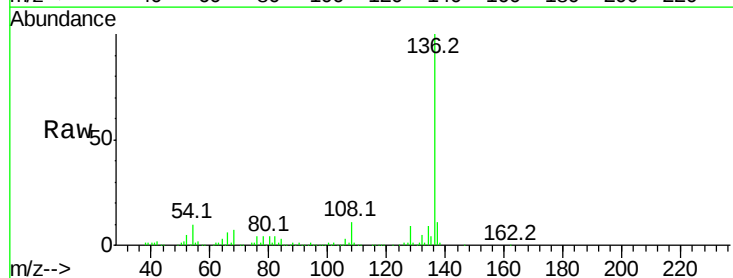
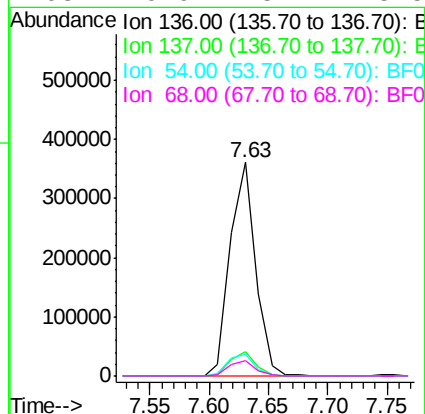
RT: 7.63 min Scan# 520

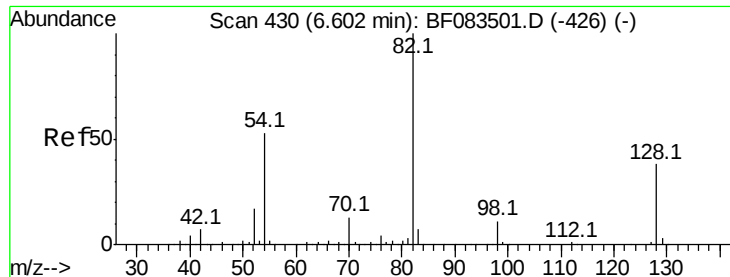
Delta R.T. -0.05 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		540064		
137	11.2	8.7	13.1		
54	10.0	7.8	11.6		
68	6.9	5.7	8.5		





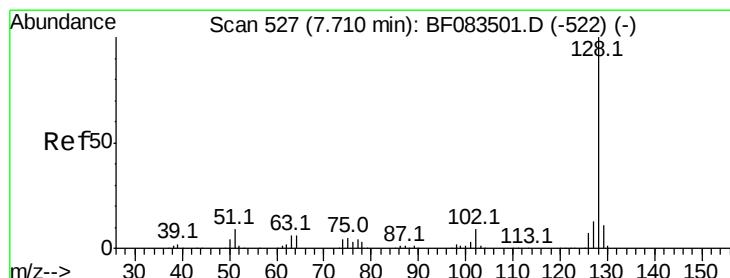
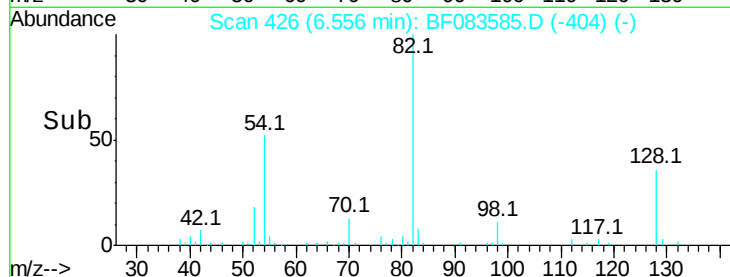
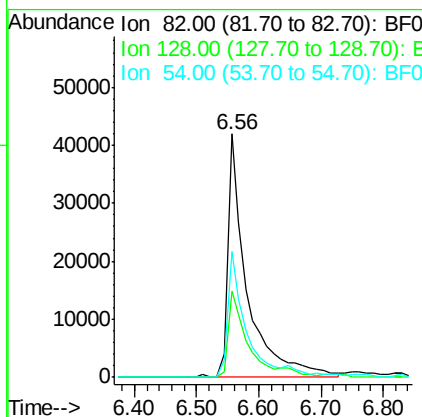
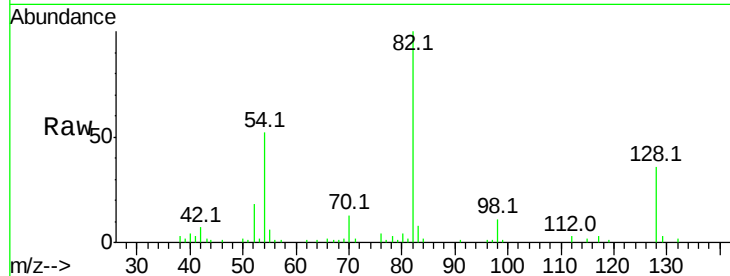
#23
 Nitrobenzene-d5
 Concen: 7.77 ng
 RT: 6.56 min Scan# 426
 Delta R.T. -0.05 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.6	30.7	46.1
54	51.5	42.5	63.7

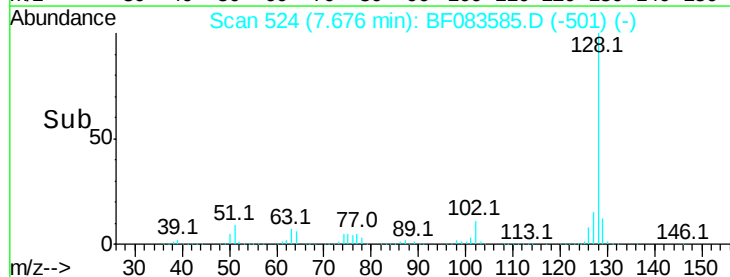
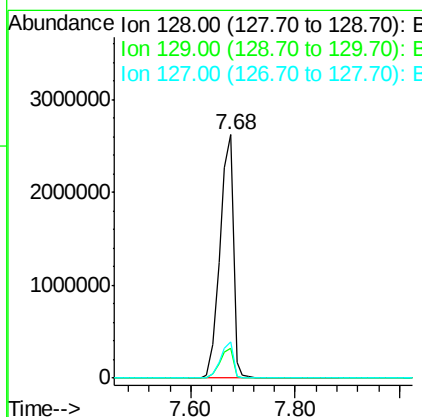
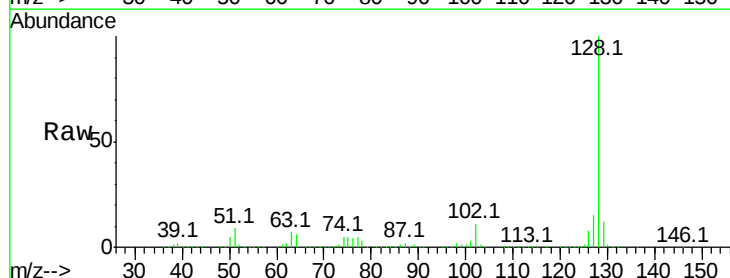
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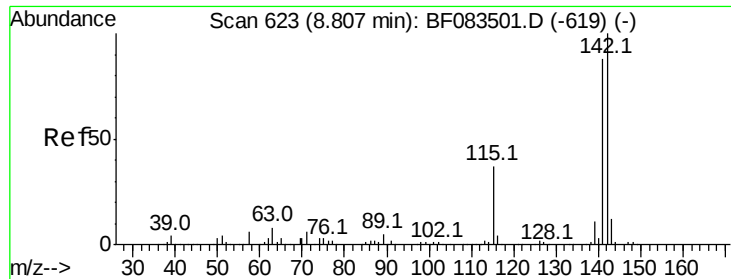
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#31
 Naphthalene
 Concen: 162.29 ng
 RT: 7.68 min Scan# 524
 Delta R.T. -0.03 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.6	13.0
127	14.7	10.6	16.0





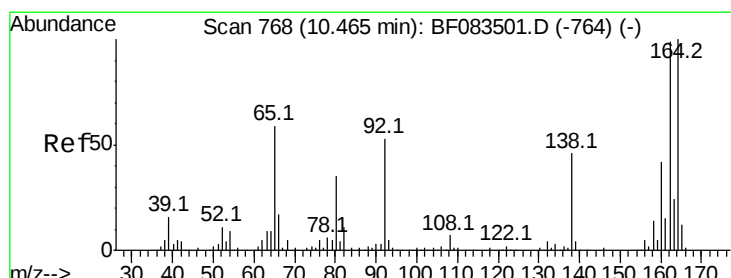
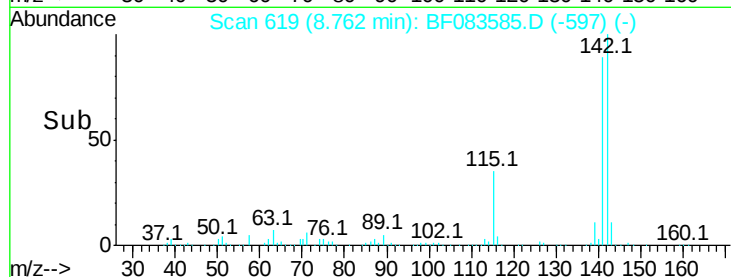
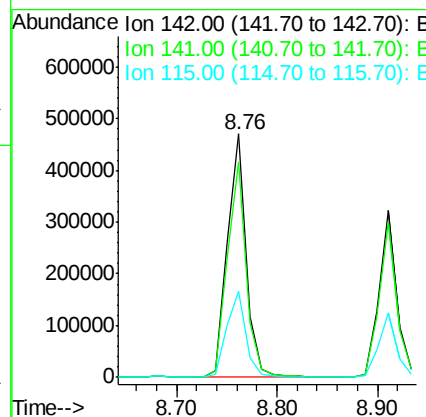
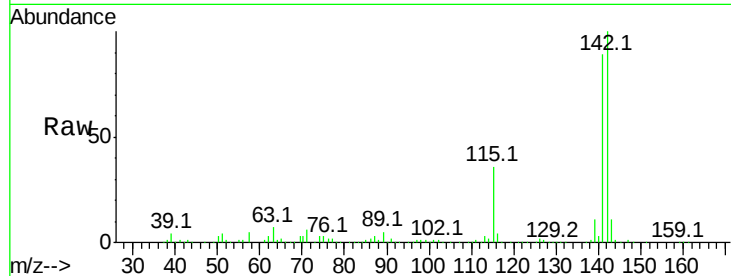
#37
2-Methylnaphthalene
Concen: 34.25 ng
RT: 8.76 min Scan# 619
Delta R.T. -0.05 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	608890		
141	88.6	70.3	105.5	
115	35.5	29.2	43.8	

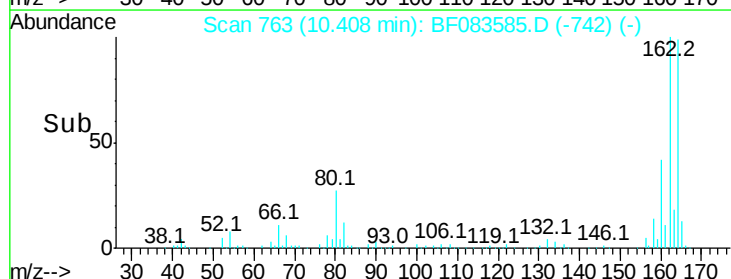
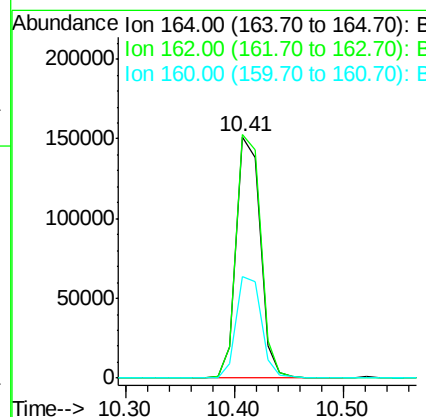
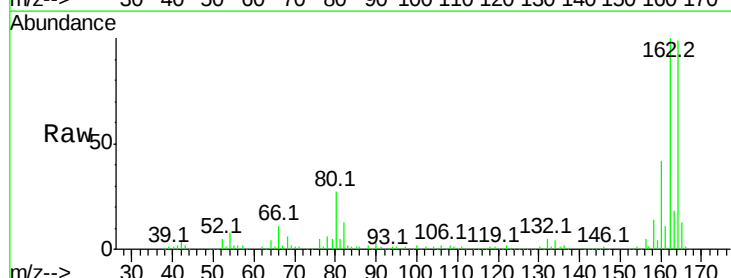
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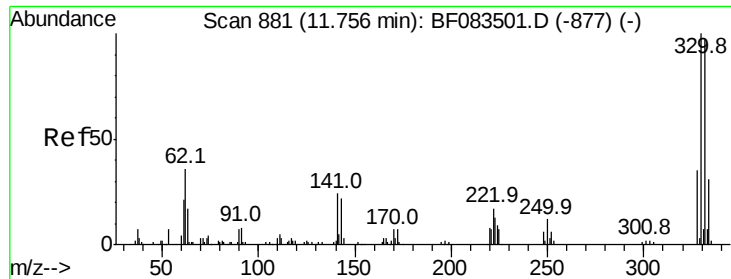
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.41 min Scan# 763
Delta R.T. -0.06 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	230433		
162	100.8	78.8	118.2	
160	42.0	33.4	50.2	





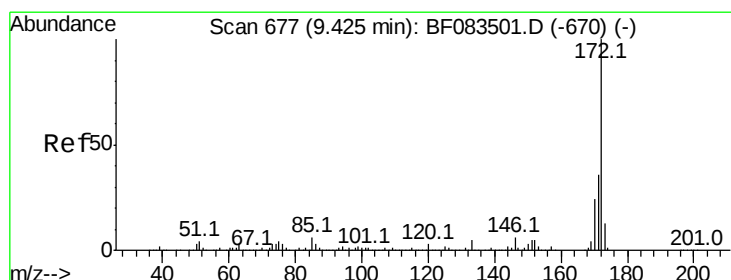
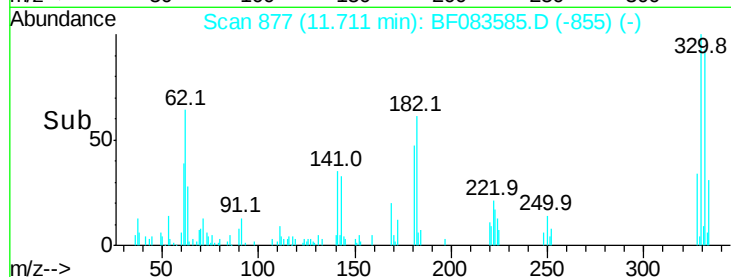
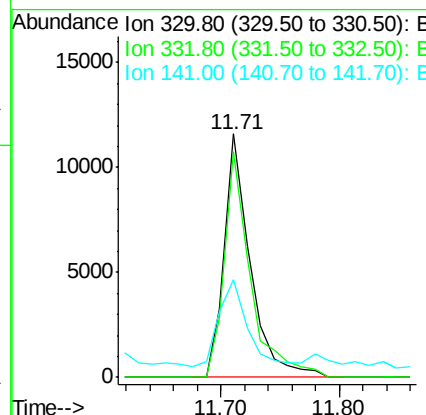
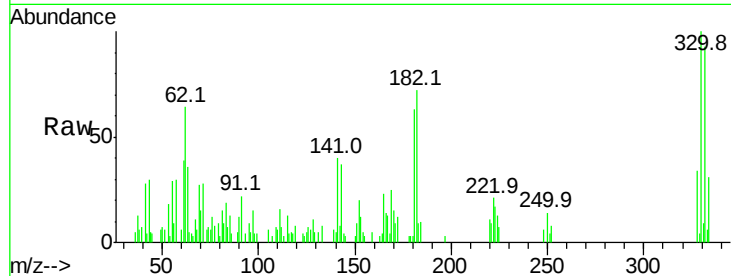
#41
 2,4,6-Tribromophenol
 Concen: 8.30 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	17644		
332	92.8	0.0	0.0	0.0
141	38.2	0.0	0.0	0.0

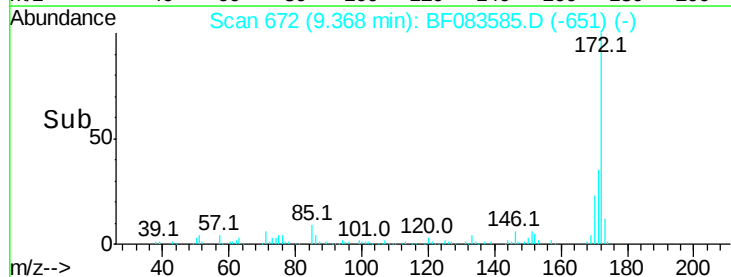
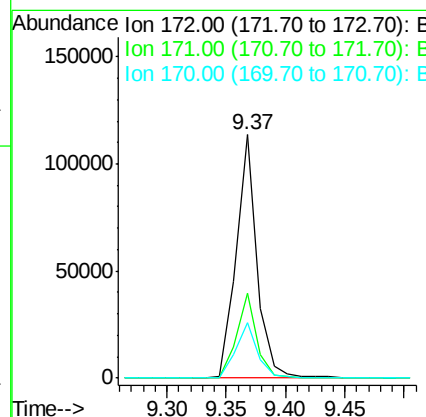
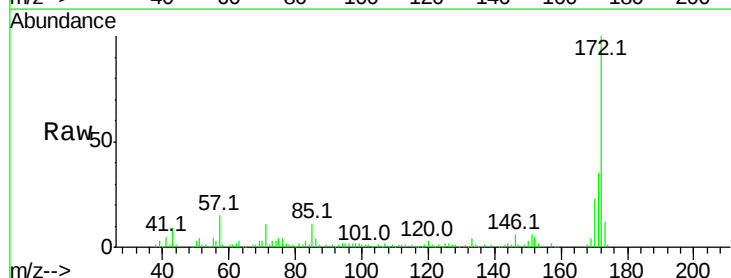
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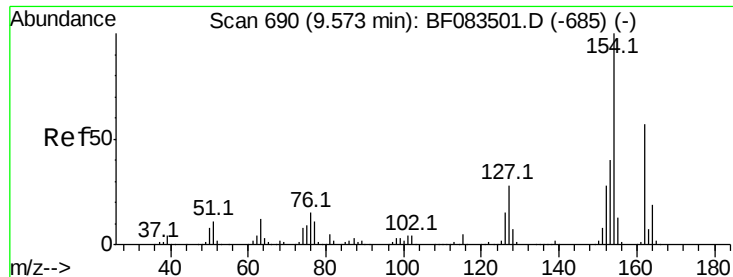
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#44
 2-Fluorobiphenyl
 Concen: 8.17 ng
 RT: 9.37 min Scan# 672
 Delta R.T. -0.06 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	138770		
171	34.6	28.6	42.8	
170	22.9	19.4	29.0	





#45

1,1'-Biphenyl

Concen: 12.67 ng

RT: 9.52 min Scan# 685

Delta R.T. -0.06 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Instrument :

BNA_F

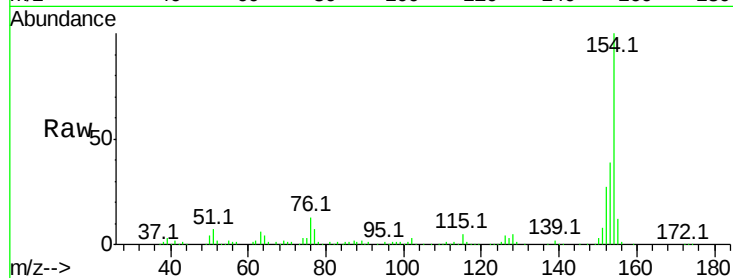
ClientSampleId :

SB-P3WC-15(0-8)DL

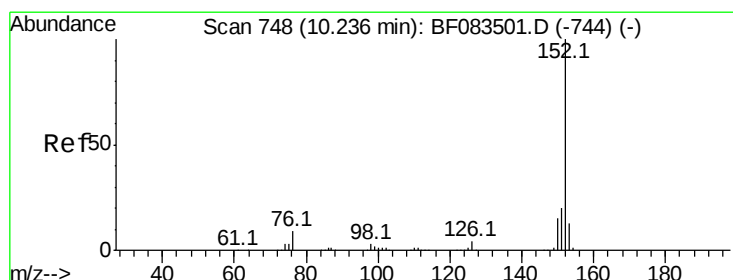
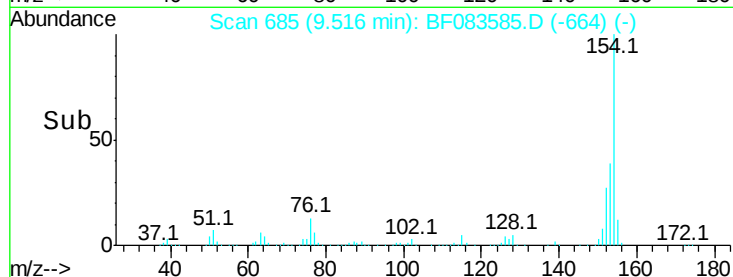
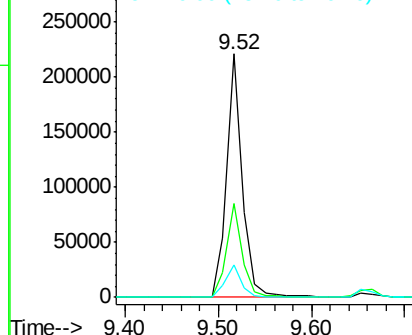
Tot Ion:	154	Resp:	259414
Ion Ratio	Lower	Upper	
154	100		
153	38.7	20.2	60.2
76	13.4	0.0	34.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 11.32 ng

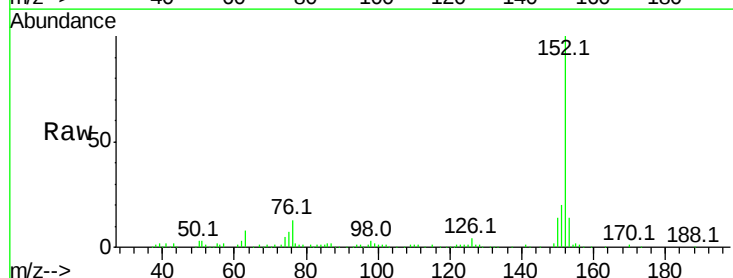
RT: 10.18 min Scan# 743

Delta R.T. -0.06 min

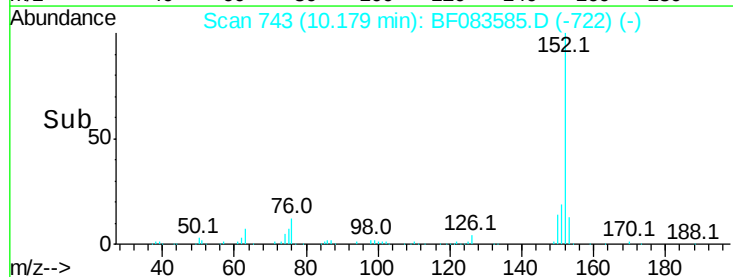
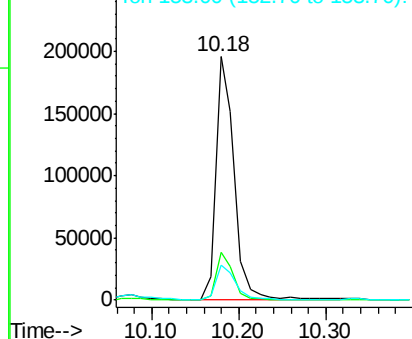
Lab File: BF083585.D

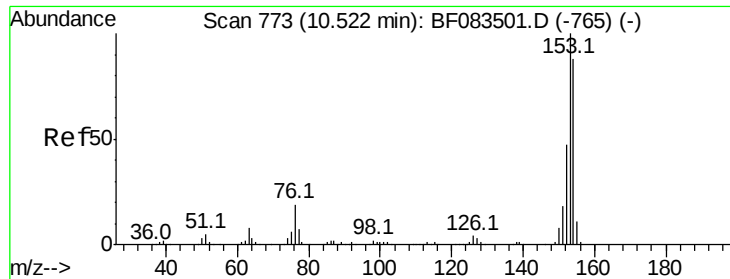
Acq: 8 Dec 2015 6:43

Tgt Ion:	152	Resp:	285910
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.3	24.5
153	14.1	10.8	16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 42.41 ng

RT: 10.46 min Scan# 768

Delta R.T. -0.06 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Instrument :

BNA_F

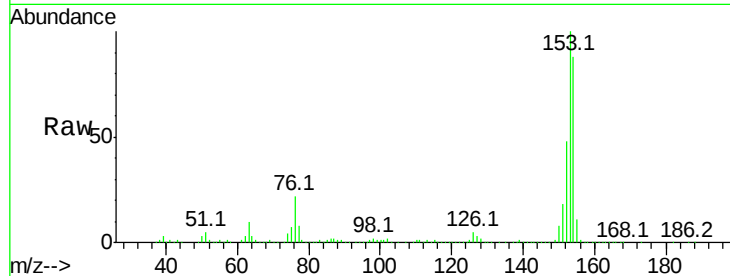
ClientSampleId :

SB-P3WC-15(0-8)DL

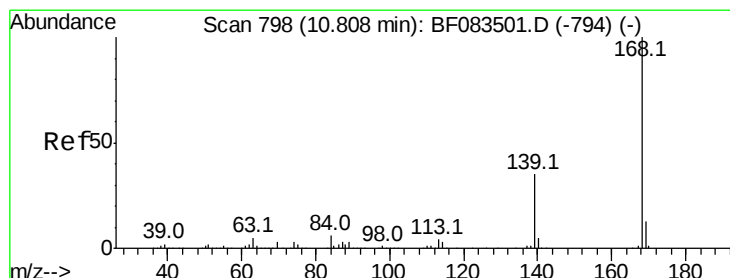
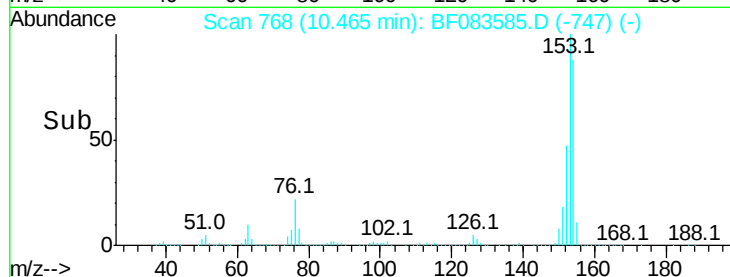
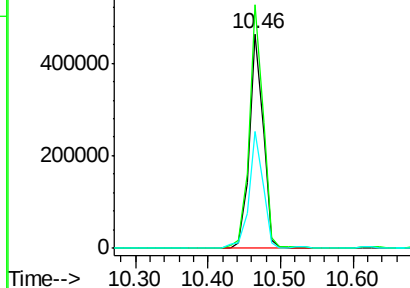
Tot Ion:	154	Resp:	616667
Ion Ratio	Lower	Upper	
154	100		
153	113.7	91.4	137.0
152	54.3	43.4	65.2

Manual Integrations
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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

Dibenzofuran

Concen: 2.81 ng

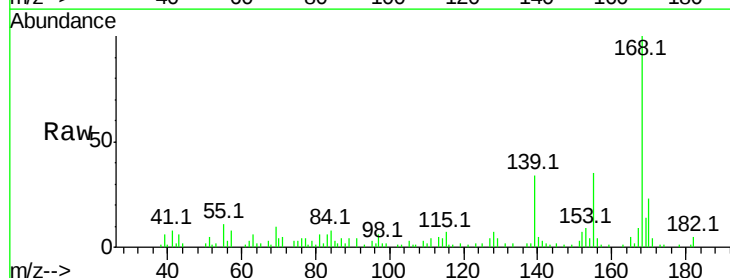
RT: 10.76 min Scan# 794

Delta R.T. -0.05 min

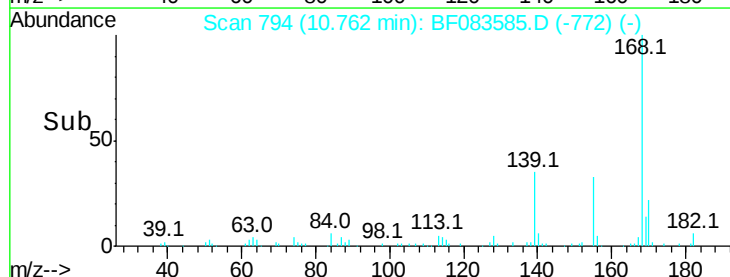
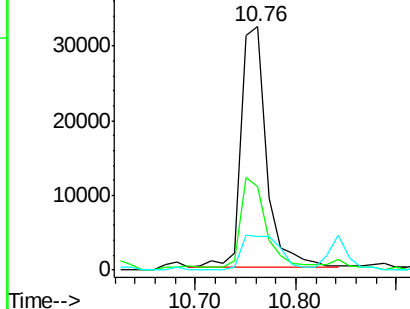
Lab File: BF083585.D

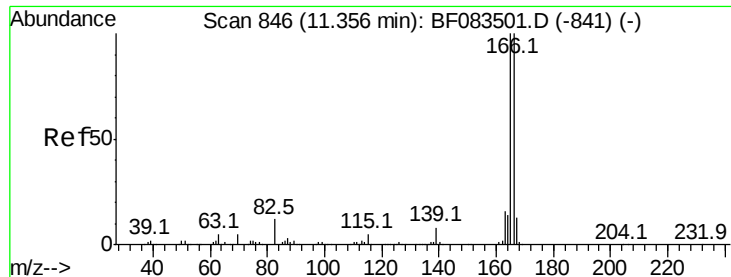
Acq: 8 Dec 2015 6:43

Tgt Ion:	168	Resp:	56564
Ion Ratio	Lower	Upper	
168	100		
139	34.1	28.0	42.0
169	13.7	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





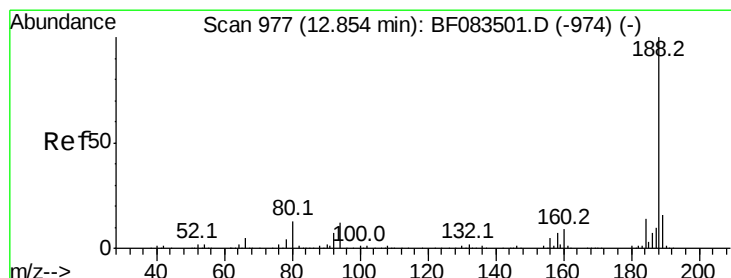
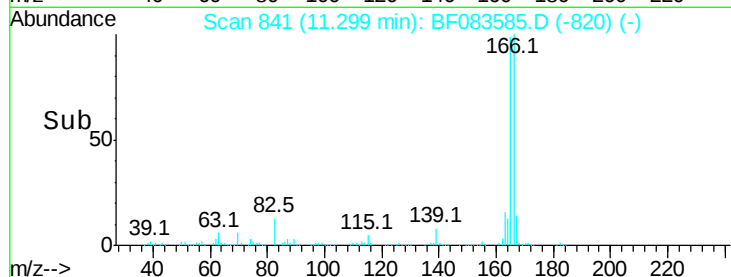
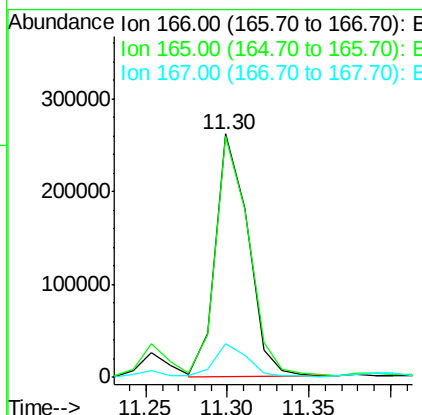
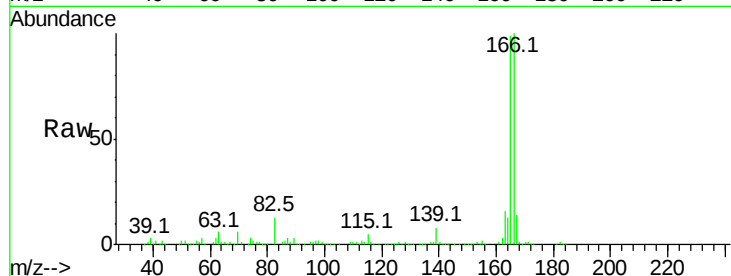
#57
Fluorene
 Concen: 20.57 ng
 RT: 11.30 min Scan# 841
 Delta R.T. -0.06 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	360411		
165	99.1	80.0	120.0	
167	14.0	10.6	16.0	

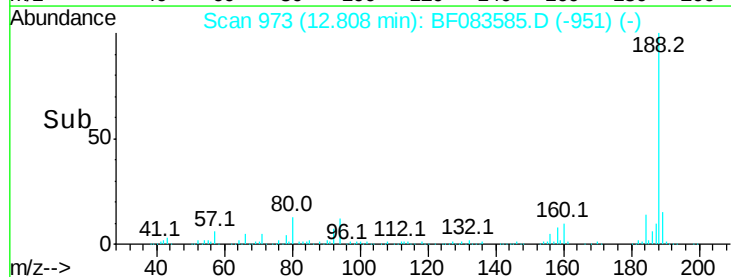
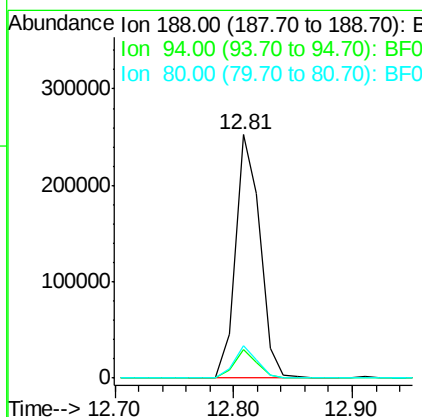
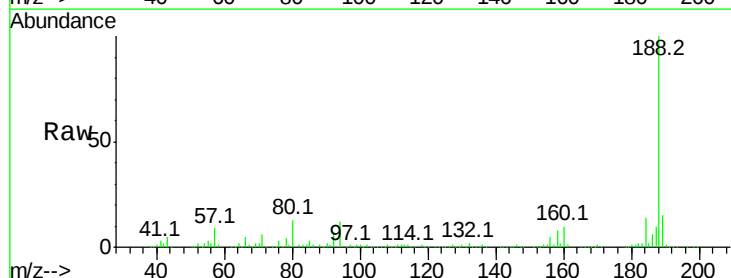
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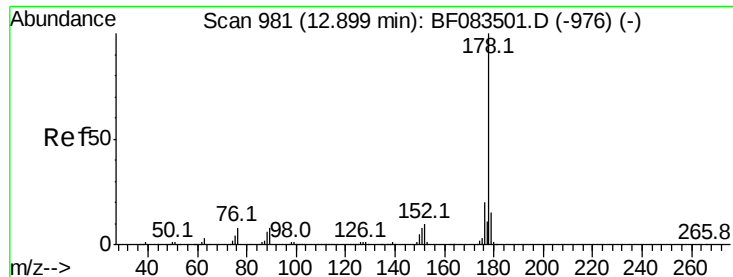
Mmdadoda
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.81 min Scan# 973
 Delta R.T. -0.05 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	362595		
94	11.6	9.4	14.2	
80	13.5	10.6	16.0	





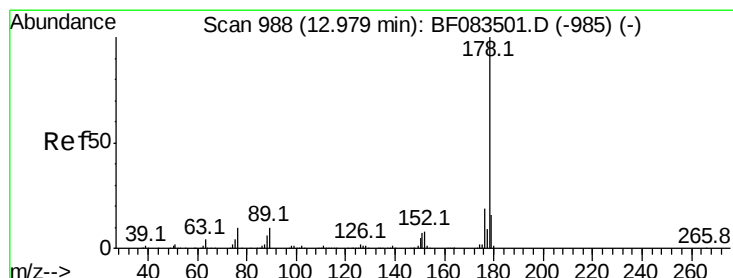
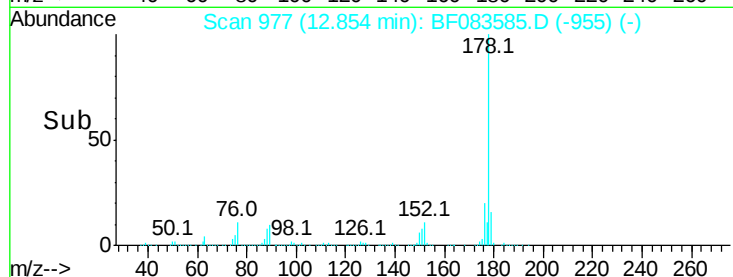
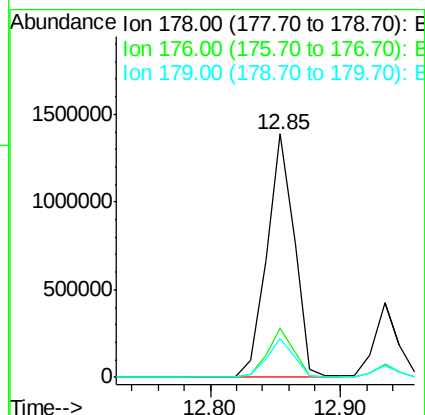
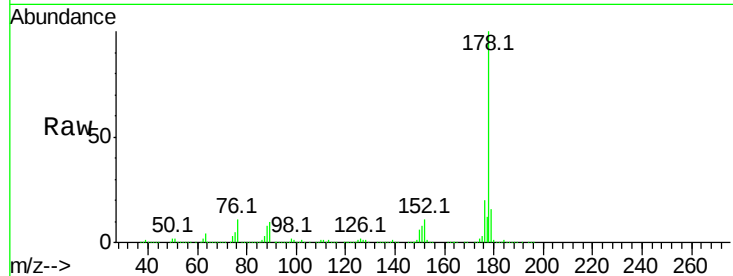
#70
Phenanthrene
Concen: 96.86 ng
RT: 12.85 min Scan# 977
Delta R.T. -0.05 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

Tot Ion:178 Resp: 2044197
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.9 12.2 18.4

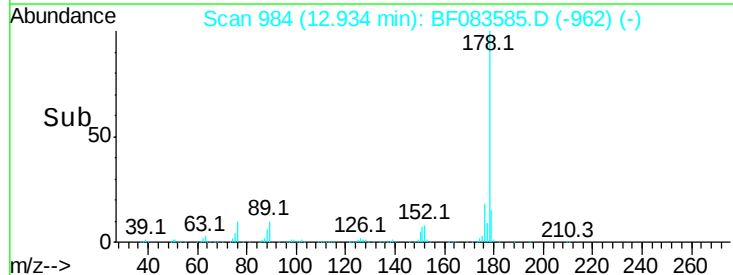
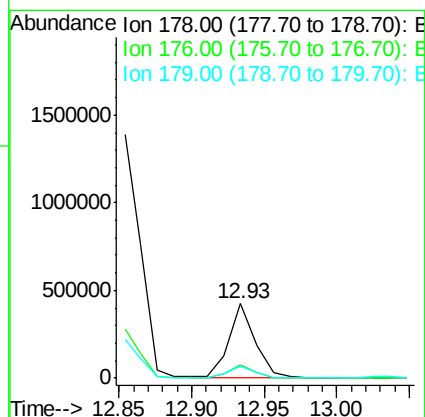
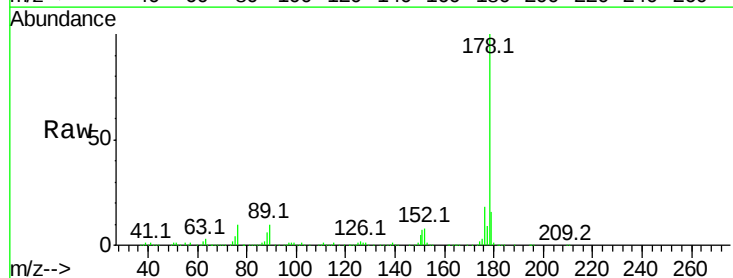
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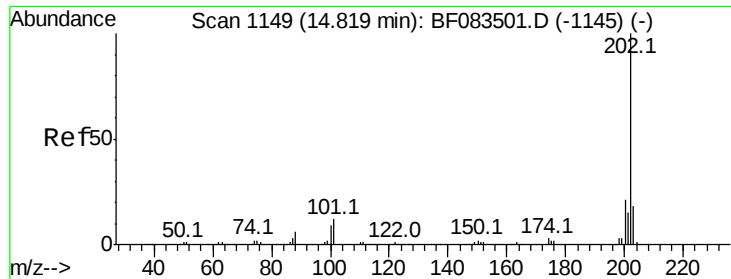
Mmdadoda
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#71
Anthracene
Concen: 24.80 ng
RT: 12.93 min Scan# 984
Delta R.T. -0.05 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Tgt Ion:178 Resp: 533839
Ion Ratio Lower Upper
178 100
176 18.2 15.2 22.8
179 15.6 12.6 18.8





#74

Fluoranthene

Concen: 53.59 ng

RT: 14.77 min Scan# 1145

Delta R.T. -0.05 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Instrument :

BNA_F

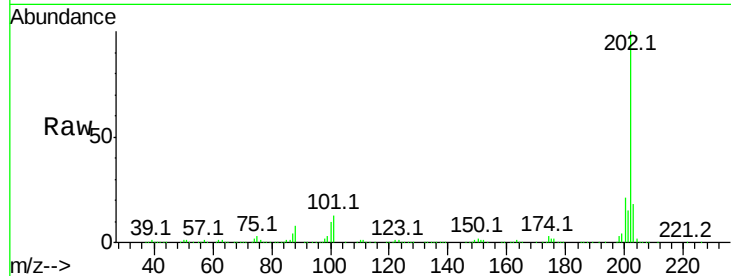
ClientSampleId :

SB-P3WC-15(0-8)DL

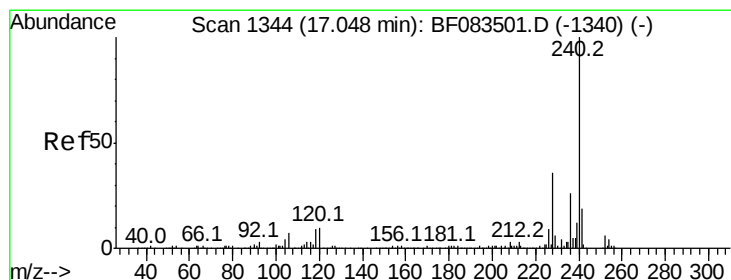
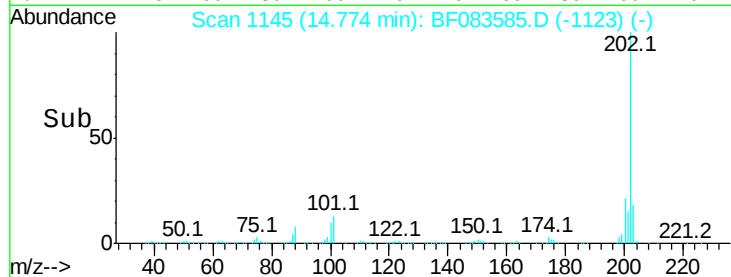
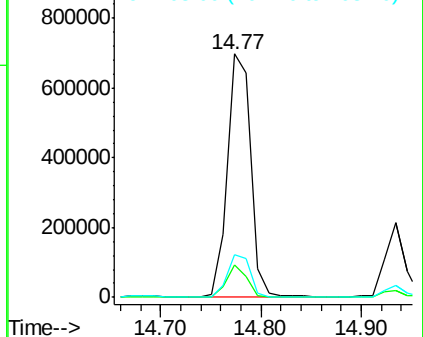
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	31.5
203	17.6	0.0	37.6

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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

RT: 17.01 min Scan# 1341

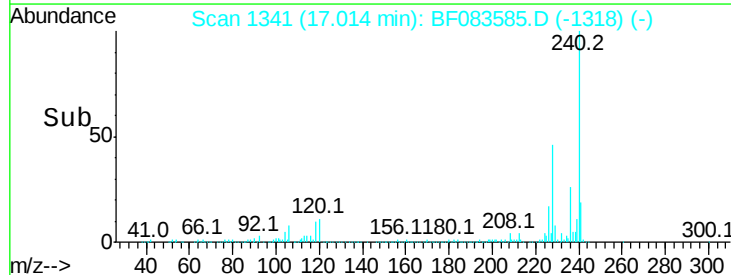
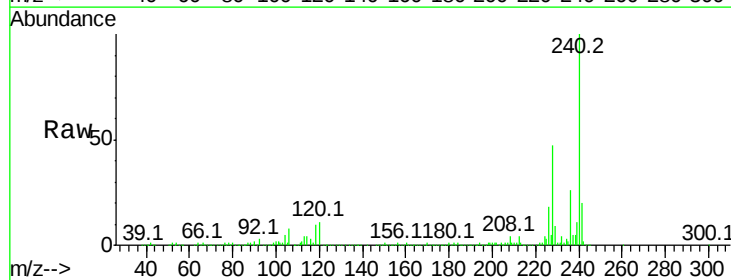
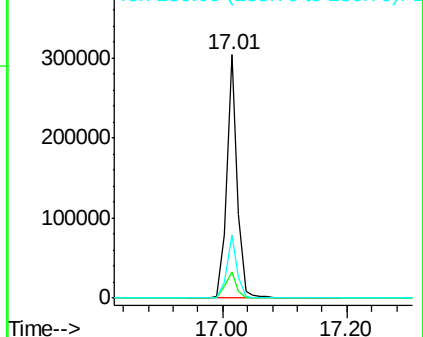
Delta R.T. -0.03 min

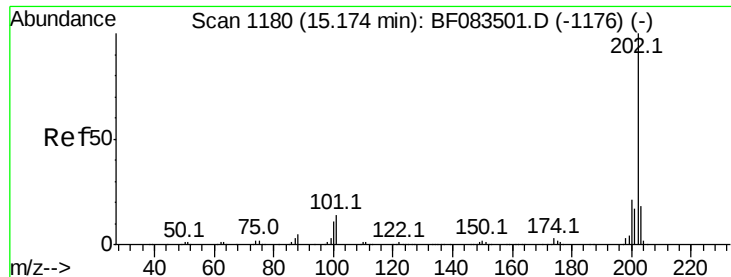
Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.1	12.1
236	25.8	20.8	31.2

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: 54.72 ng

RT: 15.14 min Scan# 1177

Delta R.T. -0.03 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-15(0-8)DL

Tot Ion:202 Resp: 1433881

Ion Ratio Lower Upper

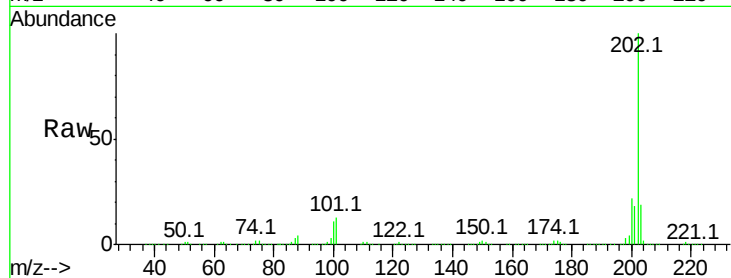
202 100

200 22.1 16.7 25.1

203 18.8 14.3 21.5

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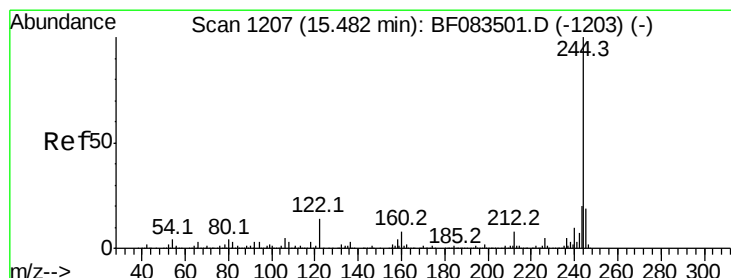
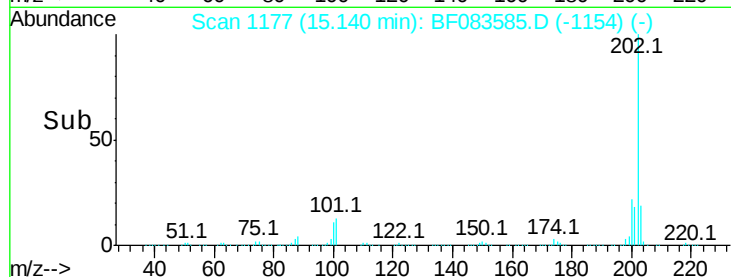
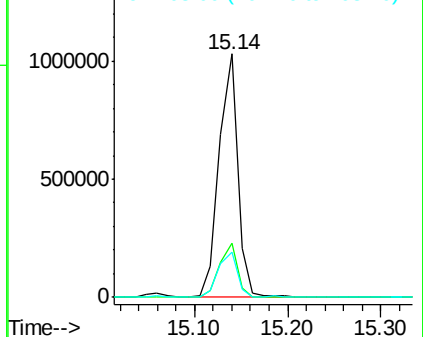
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 6.61 ng

RT: 15.44 min Scan# 1203

Delta R.T. -0.05 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

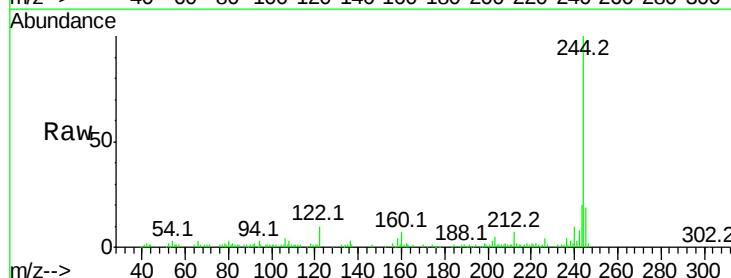
Tgt Ion:244 Resp: 103993

Ion Ratio Lower Upper

244 100

212 6.8 6.1 9.1

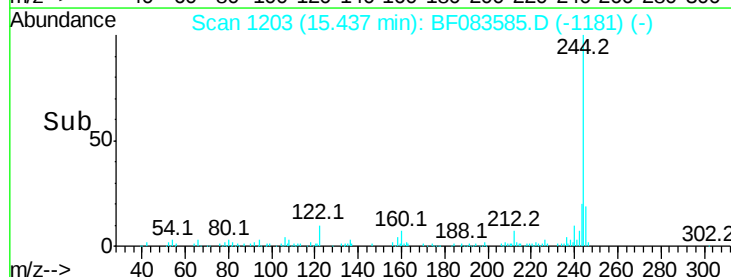
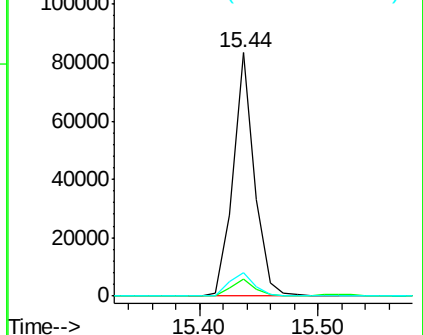
122 9.8 11.0 16.6#

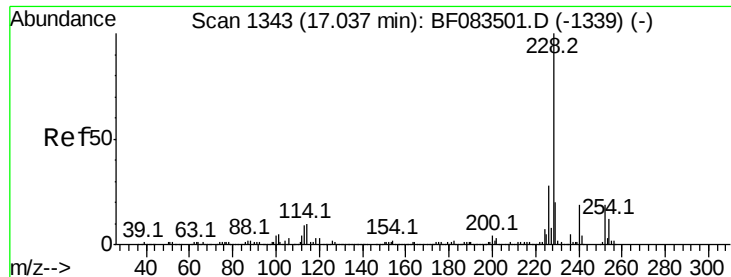


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 24.03 ng

RT: 17.00 min Scan# 1340

Delta R.T. -0.03 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Instrument :

BNA_F

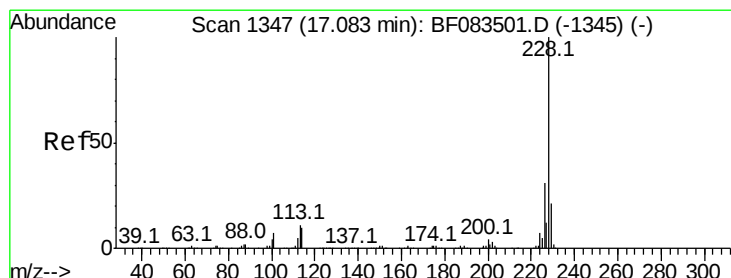
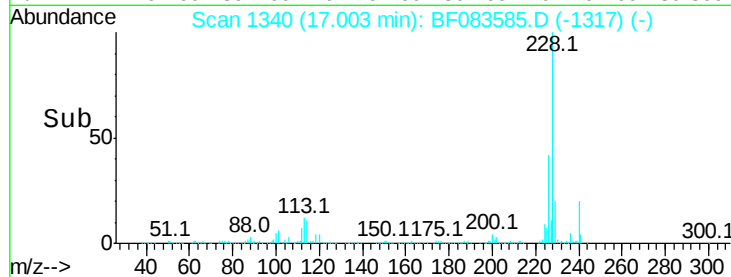
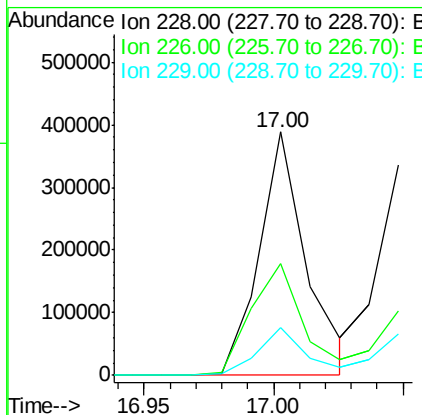
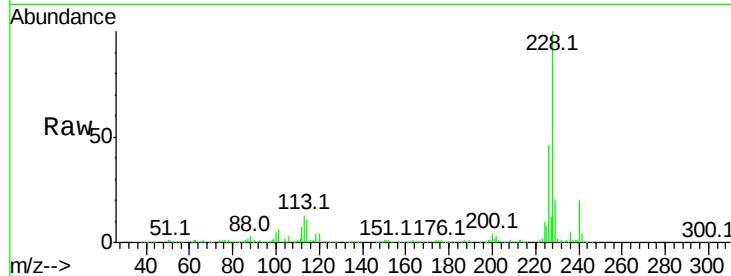
ClientSampleId :

SB-P3WC-15(0-8)DL

Tot Ion:	228	Resp:	492450
Ion Ratio	Lower	Upper	
228	100		
226	46.0	22.3	33.5#
229	19.9	15.7	23.5

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#82

Chrysene

Concen: 20.56 ng

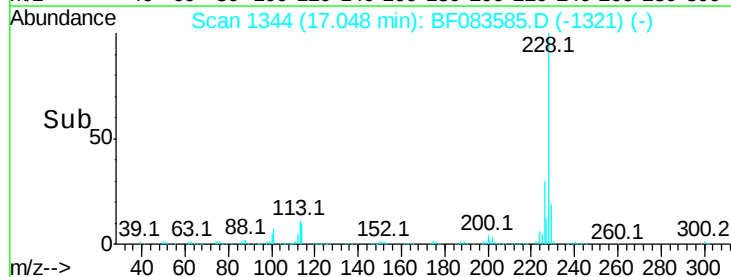
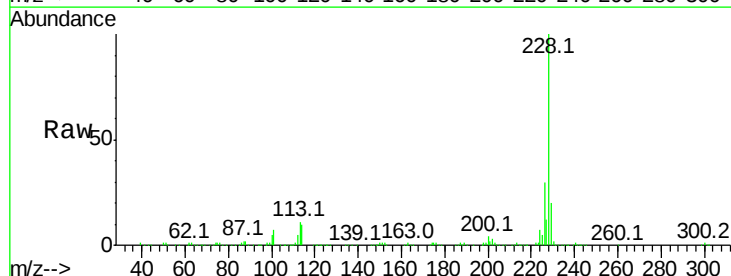
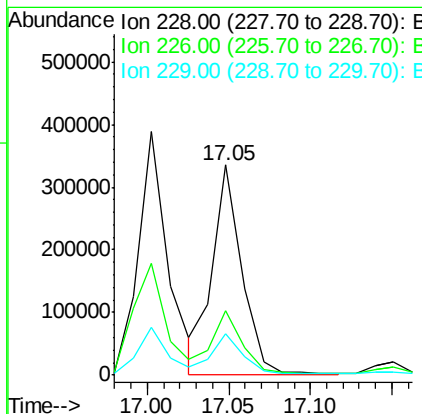
RT: 17.05 min Scan# 1344

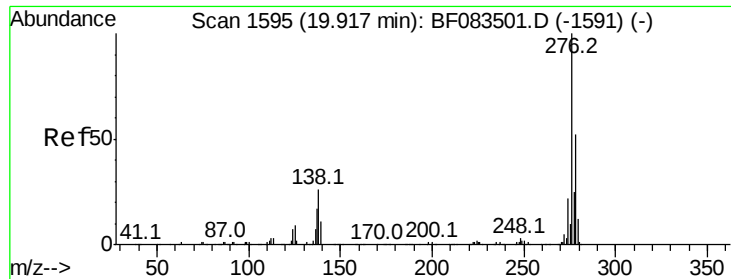
Delta R.T. -0.03 min

Lab File: BF083585.D

Acq: 8 Dec 2015 6:43

Tgt Ion:	228	Resp:	419743
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.7	37.1
229	19.8	16.3	24.5





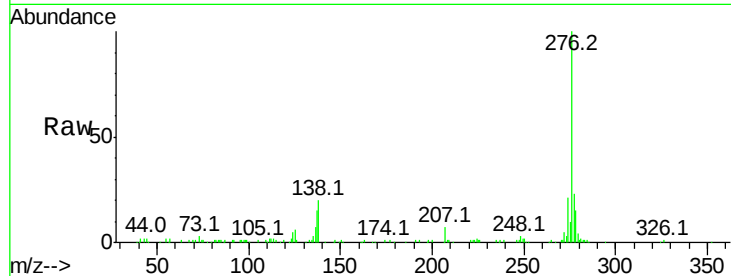
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.02 ng
RT: 19.91 min Scan# 1594
Delta R.T. -0.01 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

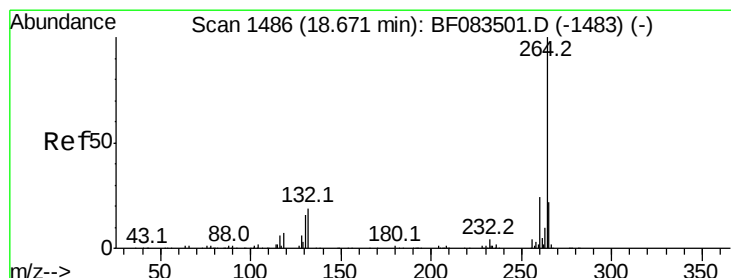
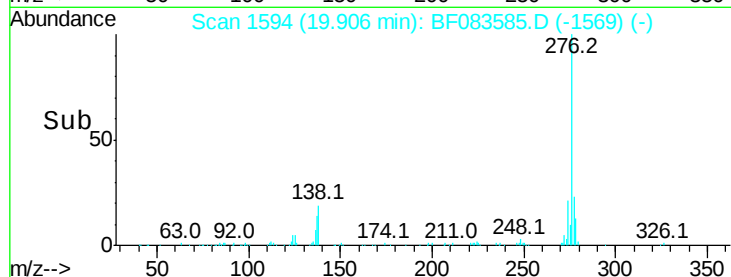
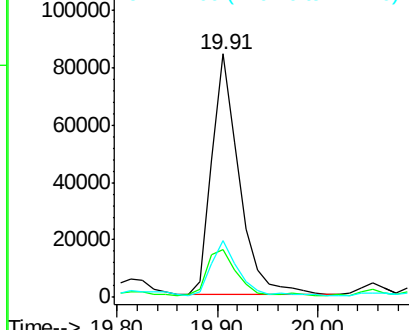
Tot Ion	Ratio	Resp	Lower	Upper
276	100	157791		
138	21.9	0.0	0.0	0.0
277	23.4	0.0	0.0	0.0

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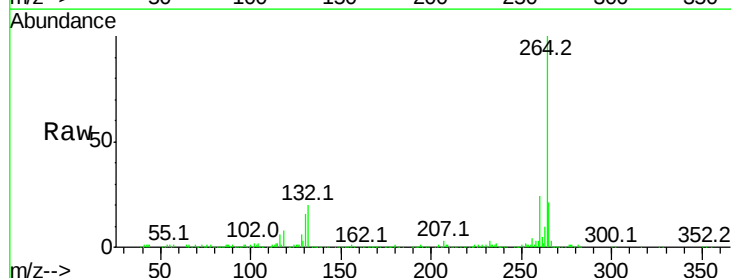


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

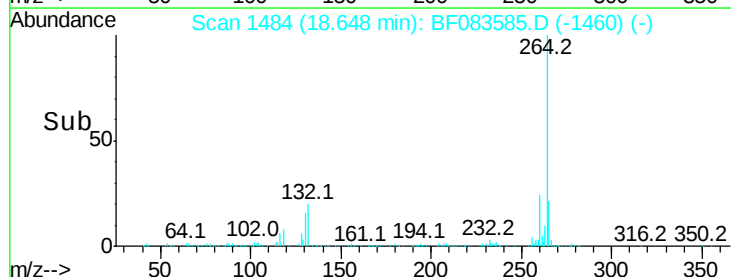
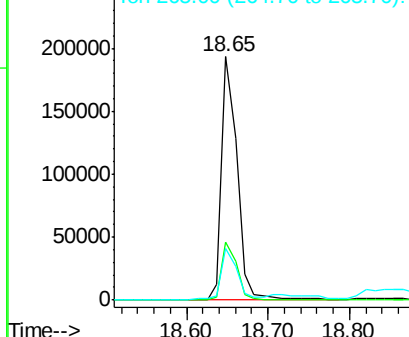


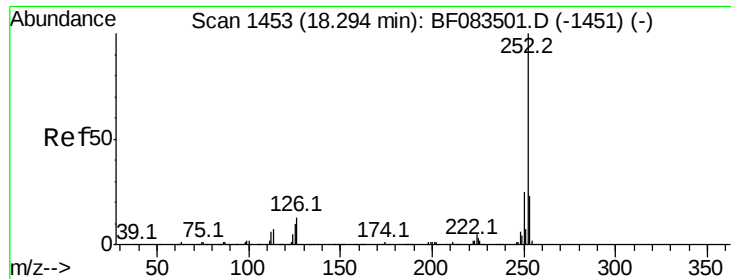
#86
Perylene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 1484
Delta R.T. -0.02 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	256044		
260	23.7	19.4	29.0	
265	21.4	17.8	26.6	



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





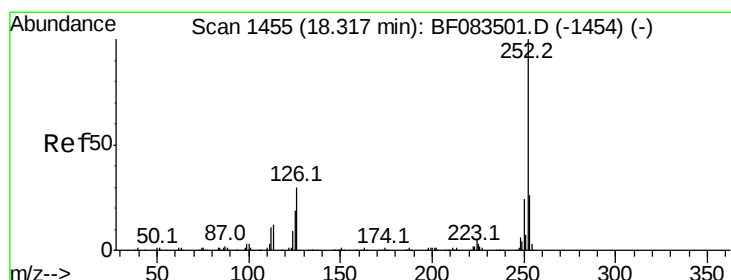
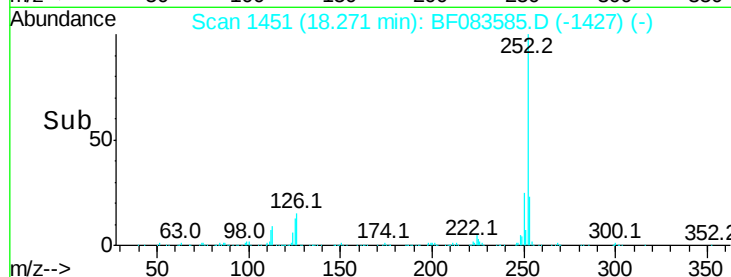
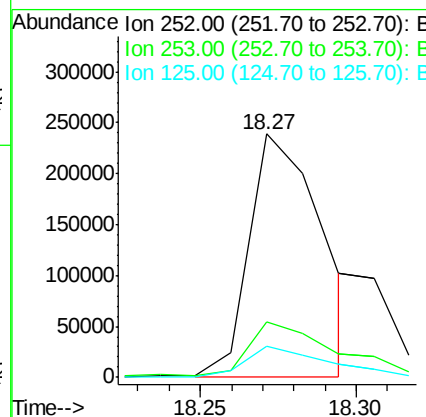
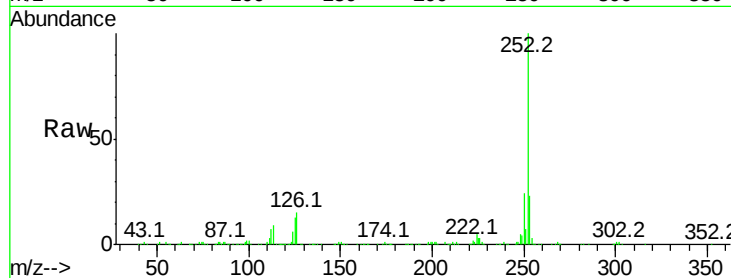
#87
Benzo(b)fluoranthene
Concen: 27.04 ng m
RT: 18.27 min Scan# 1451
Delta R.T. -0.02 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	12.9	8.2	12.4

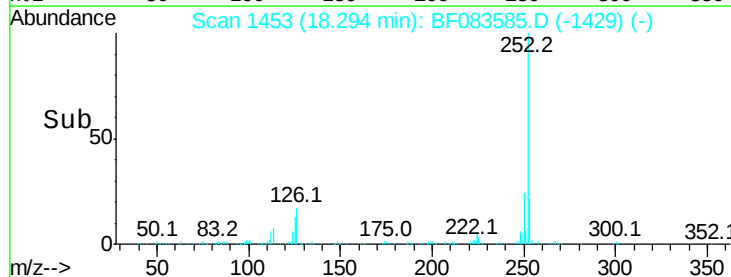
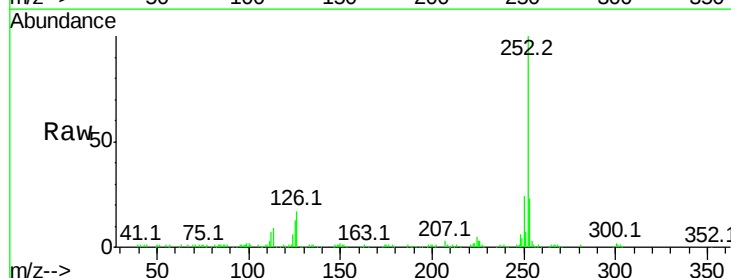
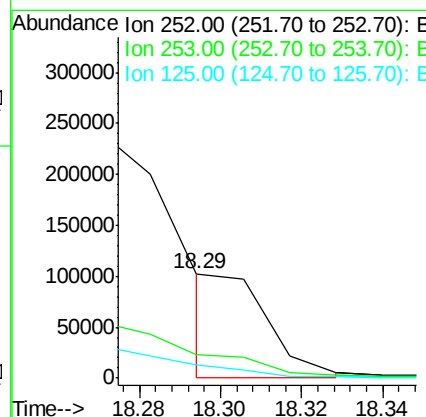
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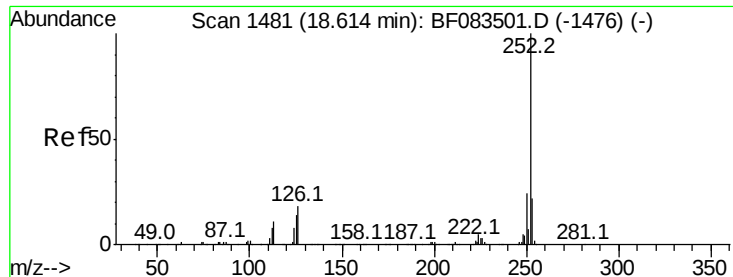
Mmdadoda
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#88
Benzo(k)fluoranthene
Concen: 5.80 ng m
RT: 18.29 min Scan# 1453
Delta R.T. -0.02 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.6	27.8
125	13.2	11.5	17.3





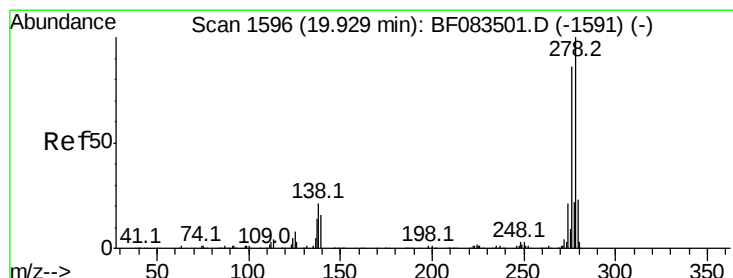
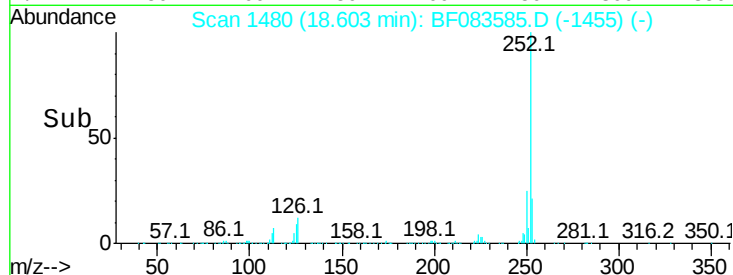
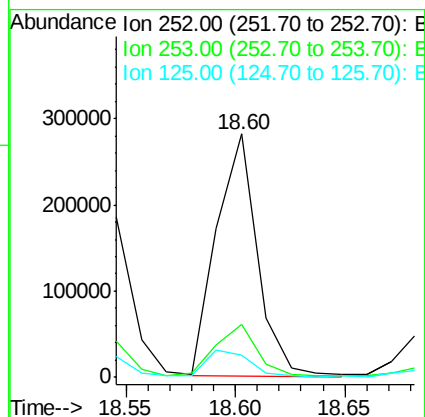
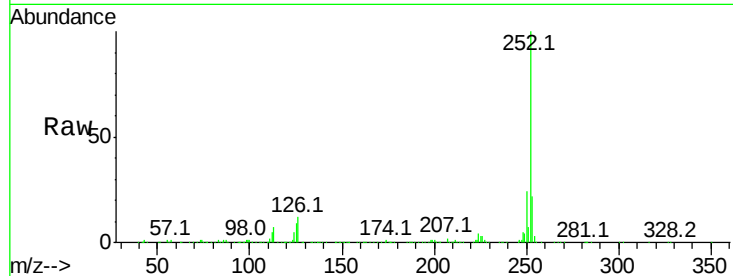
#89
Benzo(a)pyrene
Concen: 26.25 ng m
RT: 18.60 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.3	11.0	16.6

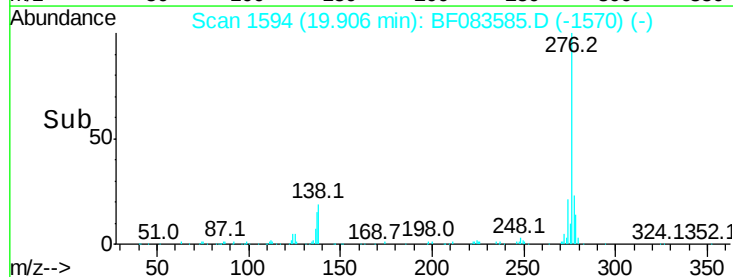
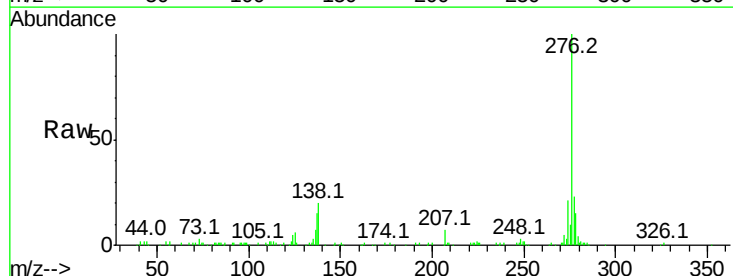
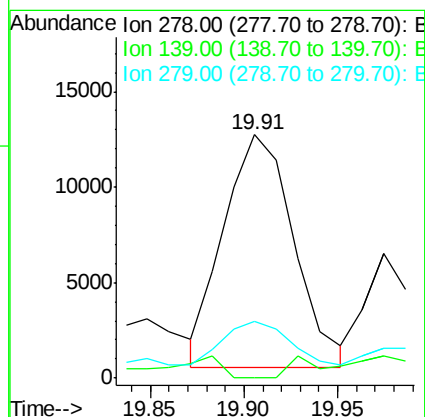
Manual Integrations
APPROVED

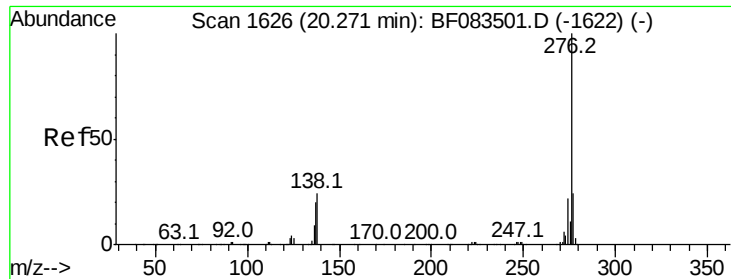
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#90
Dibenzo(a,h)anthracene
Concen: 2.36 ng m
RT: 19.91 min Scan# 1594
Delta R.T. -0.02 min
Lab File: BF083585.D
Acq: 8 Dec 2015 6:43

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2
279	23.5	18.6	28.0





#91
 Benzo(a,h,i)perylene
 Concen: 13.48 ng
 RT: 20.26 min Scan# 1625
 Delta R.T. -0.01 min
 Lab File: BF083585.D
 Acq: 8 Dec 2015 6:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.9	19.2	28.8
138	22.1	19.5	29.3

Manual Integrations
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