

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120815\
 Data File : BF083613.D
 Acq On : 9 Dec 2015 00:20
 Operator : UM/IZ
 Sample : G4637-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PCPY2A

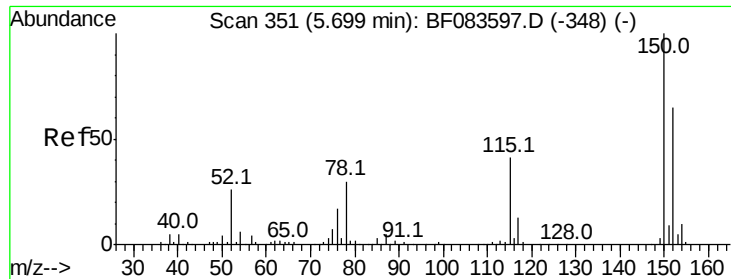
Manual Integrations
 APPROVED

Mmdadoda
 12/9/2015 6:13:30 PM

Quant Time: Dec 09 02:58:33 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.70	152	154847	20.00	ng	0.00
21) Naphthalene-d8	7.60	136	583357	20.00	ng	-0.01
38) Acenaphthene-d10	10.38	164	268514	20.00	ng	0.00
63) Phenanthrene-d10	12.78	188	416276	20.00	ng	0.00
75) Chrysene-d12	16.99	240	287113	20.00	ng	0.00
86) Perylene-d12	18.64	264	295635	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.00	112	1206040	118.13	ng	0.02
7) Phenol-d6	5.28	99	1597717	117.12	ng	0.00
23) Nitrobenzene-d5	6.53	82	1001361	80.10	ng	0.00
41) 2,4,6-Tribromophenol	11.68	330	259095	108.31	ng	-0.01
44) 2-Fluorobiphenyl	9.34	172	1385287	72.61	ng	0.00
78) Terphenyl-d14	15.40	244	758312	62.14	ng	-0.01
Target Compounds						Qvalue
9) Benzaldehyde	5.14	77	33368	4.04	ng	94
49) Dimethylphthalate	10.03	163	343733	16.08	ng	98
51) Acenaphthene	10.43	154	44112	2.65	ng	97
57) Fluorene	11.28	166	44812	2.23	ng	93
70) Phenanthrene	12.82	178	782092	32.70	ng	100
71) Anthracene	12.91	178	168797	6.81	ng	96
72) Carbazole	13.22	167	79968	3.76	ng	99
74) Fluoranthene	14.75	202	1209075	49.42	ng	98
77) Pyrene	15.11	202	1000188	48.39	ng	97
79) Butylbenzylphthalate	16.24	149	67641	7.37	ng	97
80) Benzo(a)anthracene	16.98	228	517828	30.81	ng	96
82) Chrysene	17.03	228	419428	24.90	ng	98
83) Bis(2-ethylhexyl)phthalate	17.09	149	328591	25.80	ng	99
85) Indeno(1,2,3-cd)pyrene	19.88	276	250963	22.07	ng	# 100
87) Benzo(b)fluoranthene	18.25	252	582833m	34.62	ng	
88) Benzo(k)fluoranthene	18.28	252	208170m	11.22	ng	
89) Benzo(a)pyrene	18.58	252	402533m	24.50	ng	
90) Dibenzo(a,h)anthracene	19.88	278	59944m	4.77	ng	
91) Benzo(a,h,i)perylene	20.24	276	227894	18.61	ng	97

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



#1

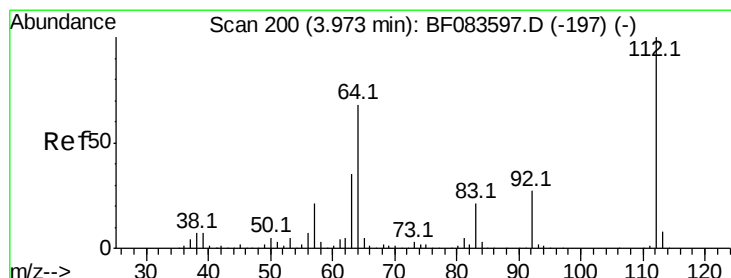
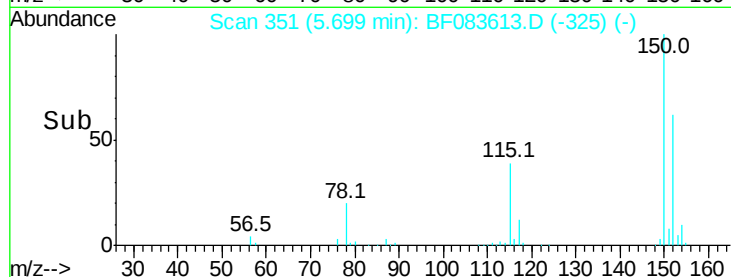
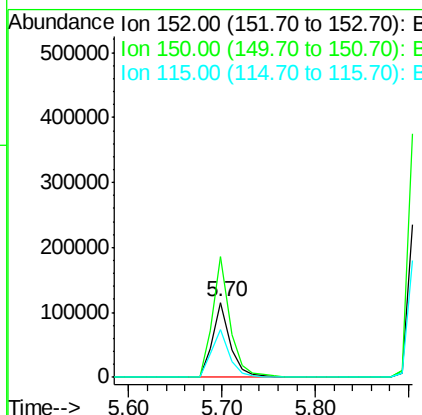
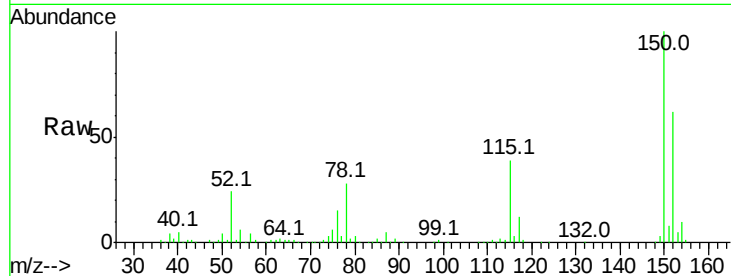
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.70 min Scan# 351
Delta R.T. 0.00 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Instrument :
BNA_F
ClientSampleId :
PCPY2A

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	126.5	189.7
115	62.7	52.3	78.5

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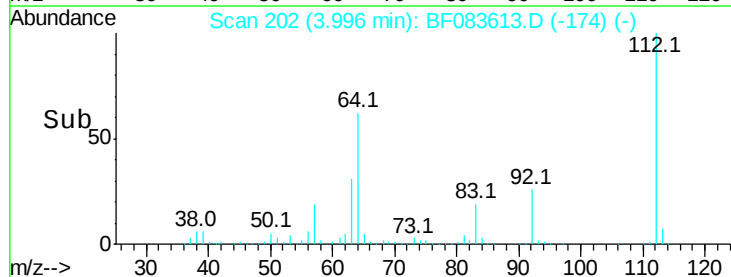
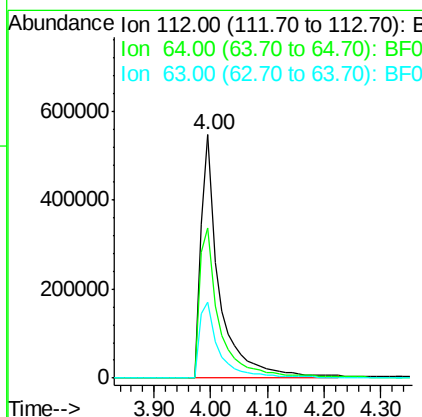
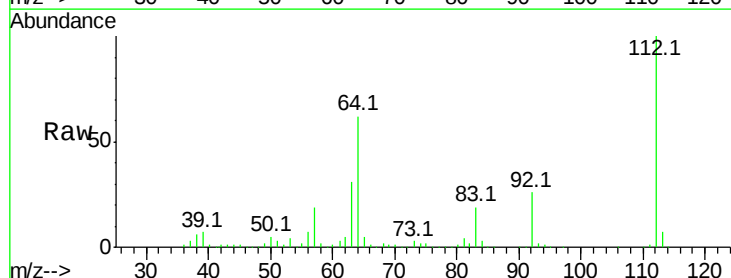
Mmdadoda
12/9/2015 6:13:30 PM

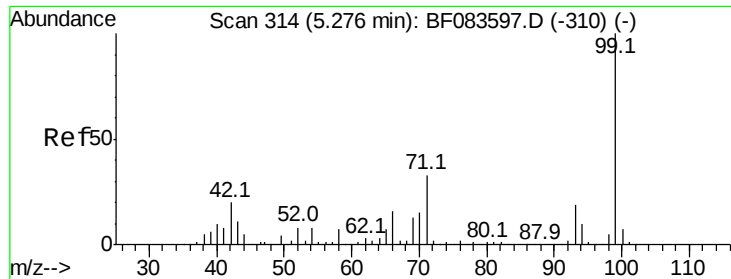


#5

2-Fluorophenol
Concen: 118.13 ng
RT: 4.00 min Scan# 202
Delta R.T. 0.02 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	50.5	75.7
63	31.2	25.8	38.6





#7

Phenol-d6

Concen: 117.12 ng

RT: 5.28 min Scan# 314

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

ClientSampleId :

PCPY2A

Tot Ion: 99 Resp: 1597717

Ion Ratio Lower Upper

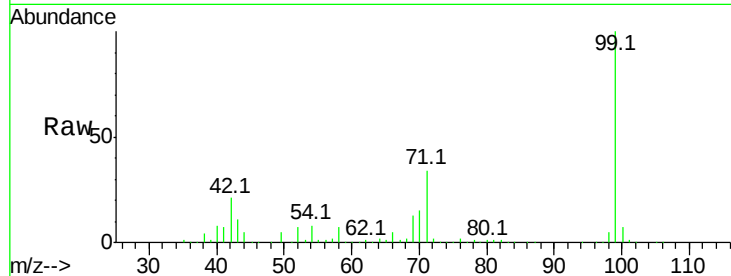
99 100

42 20.9 17.3 25.9

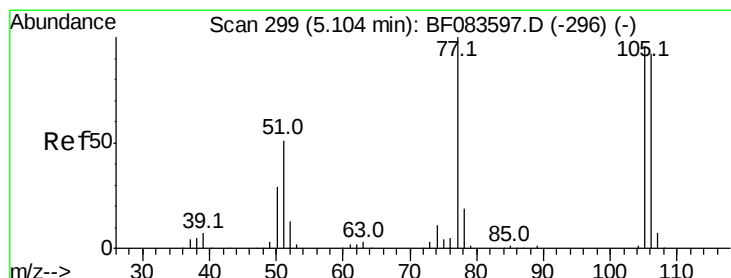
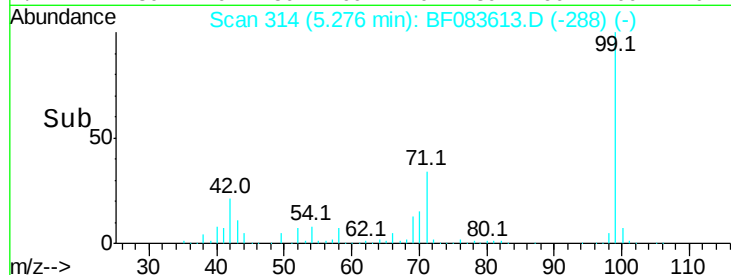
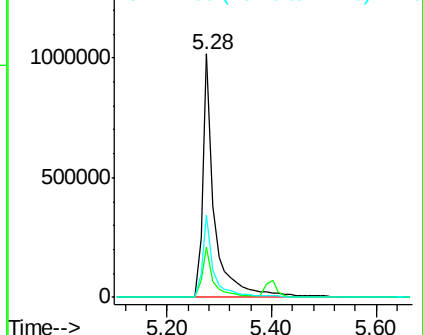
71 33.9 26.6 40.0

Manual Integrations
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 4.04 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.03 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

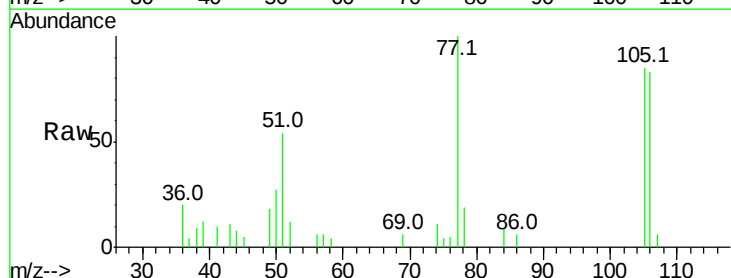
Tgt Ion: 77 Resp: 33368

Ion Ratio Lower Upper

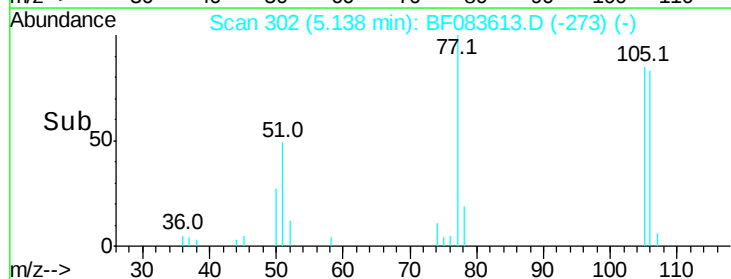
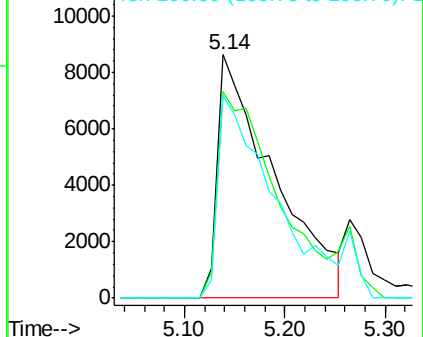
77 100

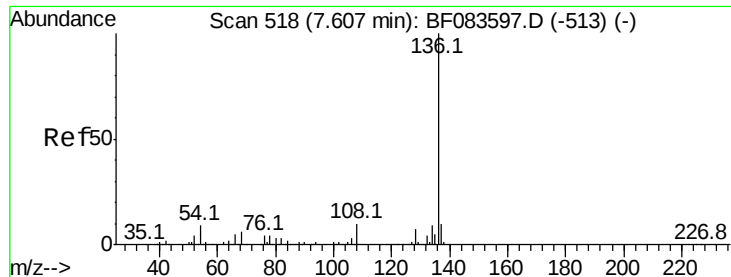
105 84.8 71.8 111.8

106 83.1 66.8 106.8



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): BF0
Ion 106.00 (105.70 to 106.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.60 min Scan# 517

Delta R.T. -0.01 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

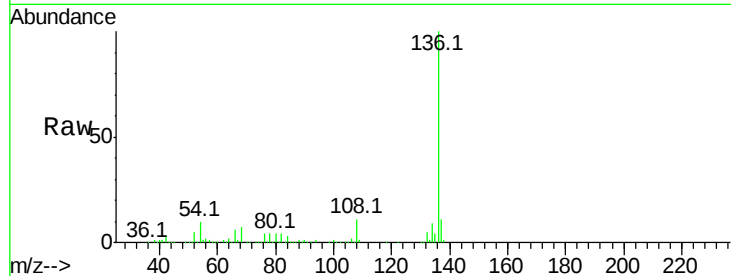
ClientSampleId :

PCPY2A

Tot Ion	Ratio	Resp	Lower	Upper
136	100	583357		
137	10.9		8.7	13.1
54	10.3		7.8	11.6
68	6.9		5.7	8.5

Manual Integrations
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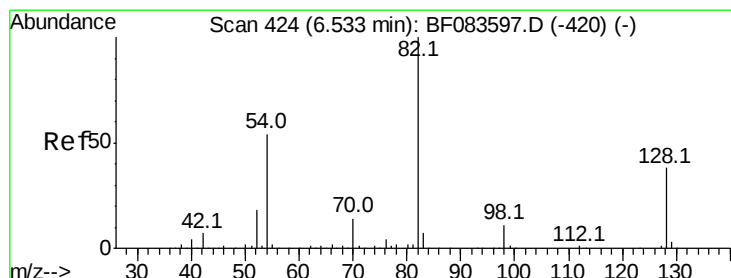
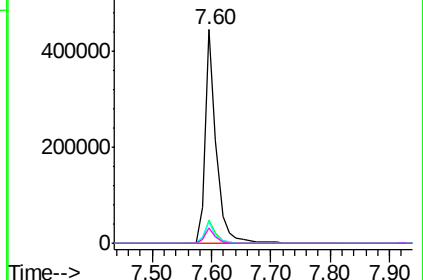
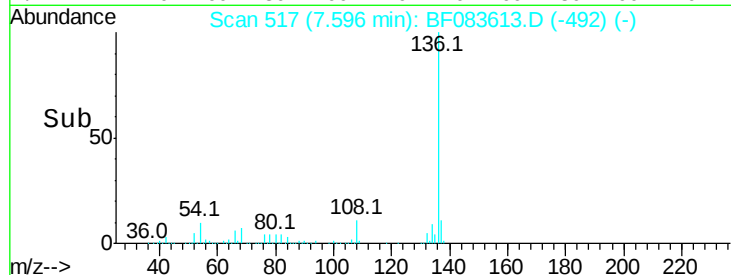


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 80.10 ng

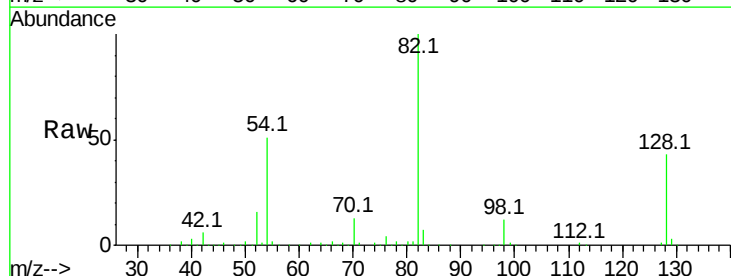
RT: 6.53 min Scan# 424

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

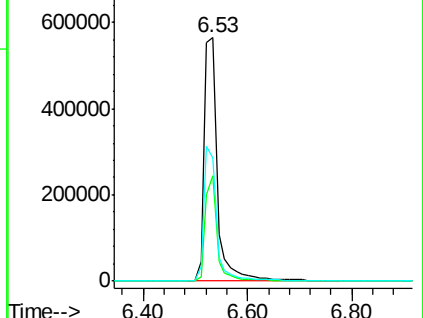
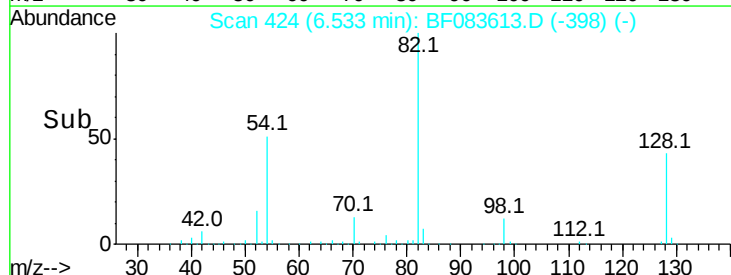
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	1001361		
128	43.5		30.7	46.1
54	50.6		42.5	63.7

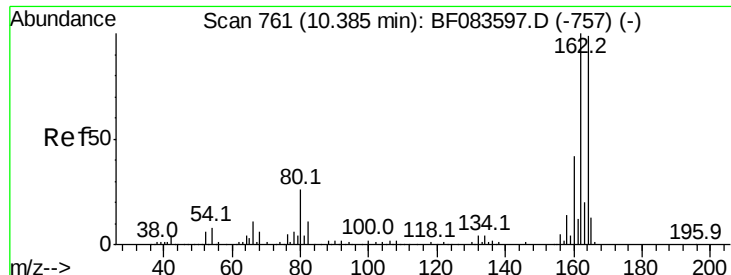


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





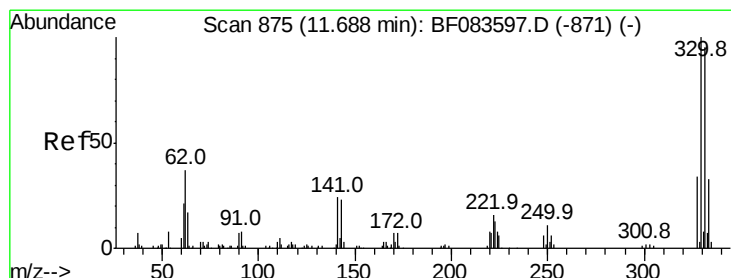
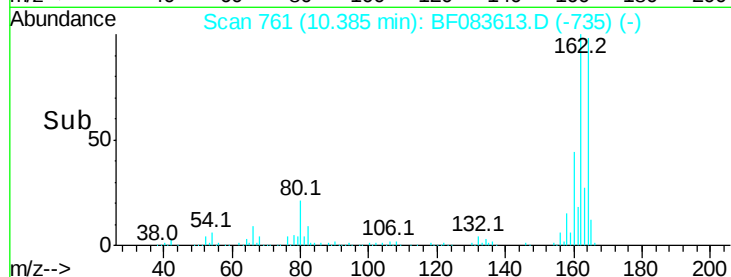
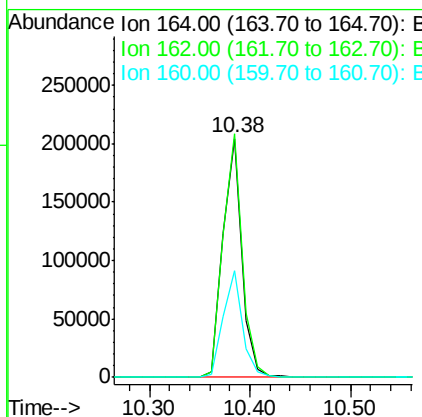
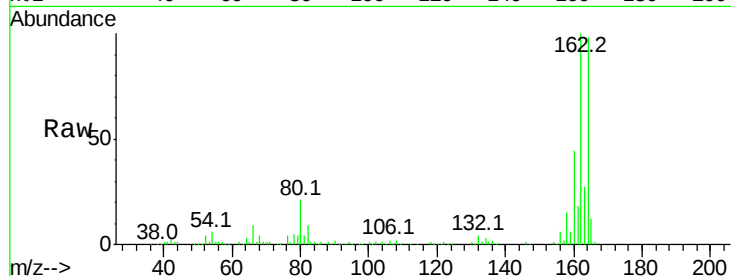
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.38 min Scan# 761
Delta R.T. 0.00 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Instrument :
BNA_F
ClientSampled :
PCPY2A

Tot Ion	Ratio	Resp	Lower	Upper
164	100	268514		
162	102.0		78.8	118.2
160	44.8		33.4	50.2

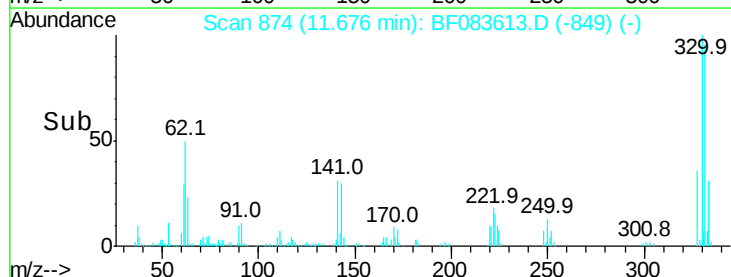
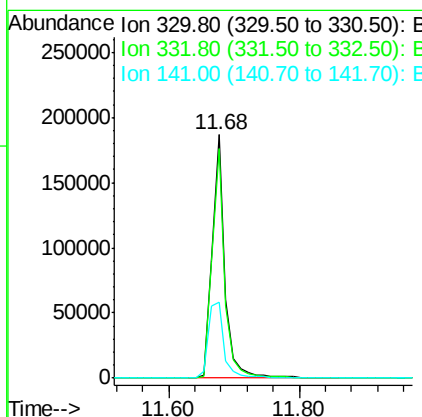
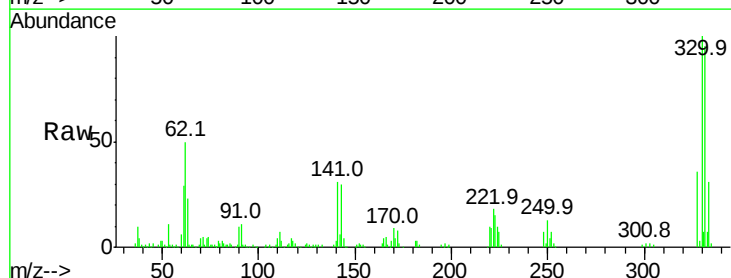
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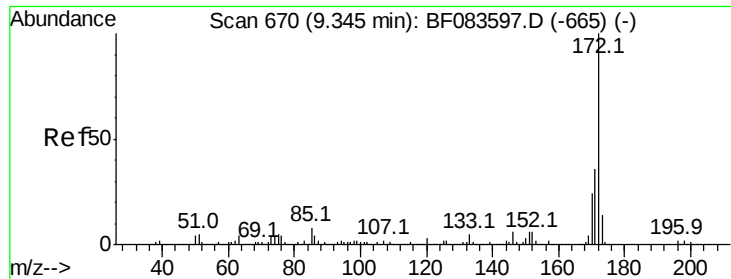
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#41
2,4,6-Tribromophenol
Concen: 108.31 ng
RT: 11.68 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	259095		
332	95.1		0.0	0.0#
141	38.7		0.0	0.0#





#44

2-Fluorobiphenyl

Concen: 72.61 ng

RT: 9.34 min Scan# 670

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

ClientSampleId :

PCPY2A

Tot Ion:172 Resp: 1385287

Ion Ratio Lower Upper

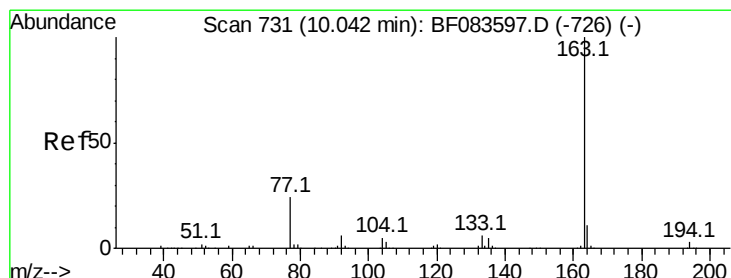
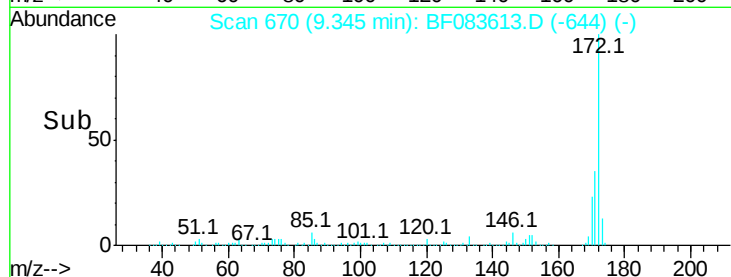
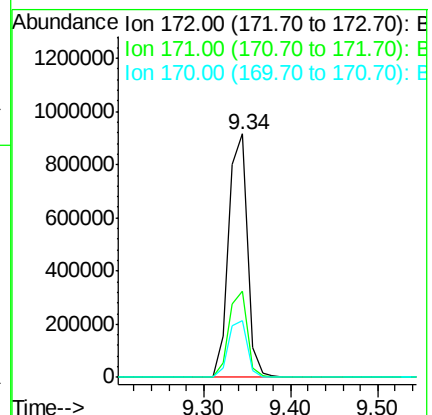
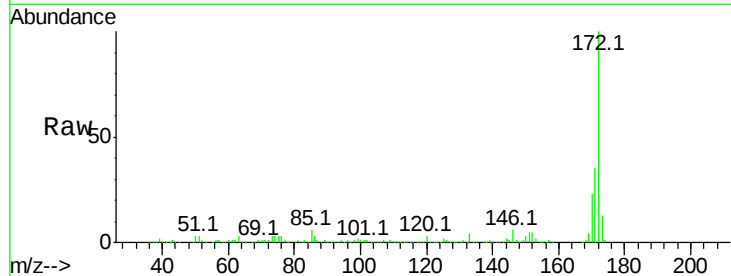
172 100

171 35.2 28.6 42.8

170 23.5 19.4 29.0

Manual Integrations
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#49

Dimethylphthalate

Concen: 16.08 ng

RT: 10.03 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

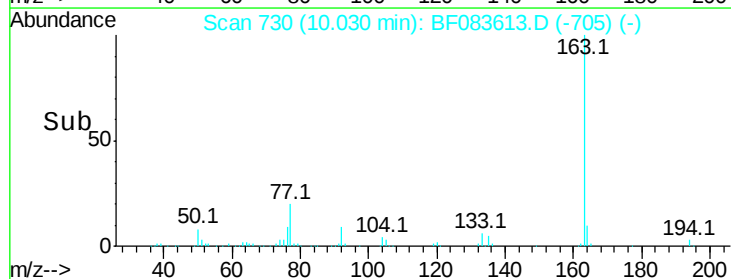
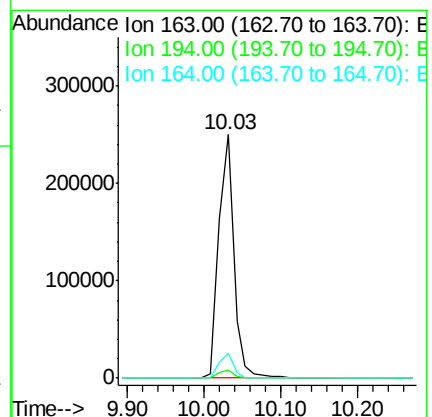
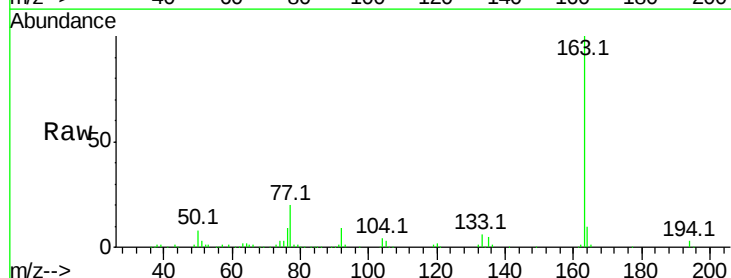
Tgt Ion:163 Resp: 343733

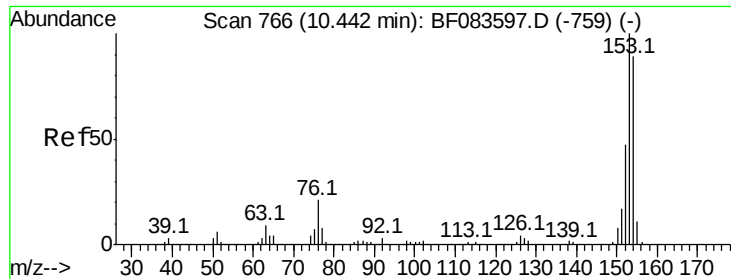
Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

164 9.9 8.6 13.0





#51

Acenaphthene

Concen: 2.65 ng

RT: 10.43 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

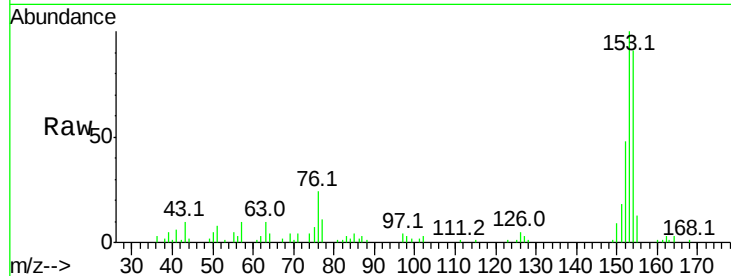
ClientSampleId :

PCPY2A

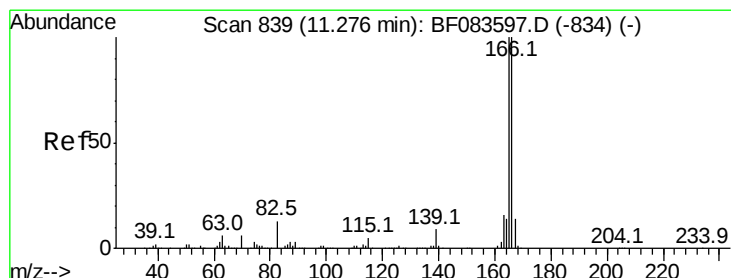
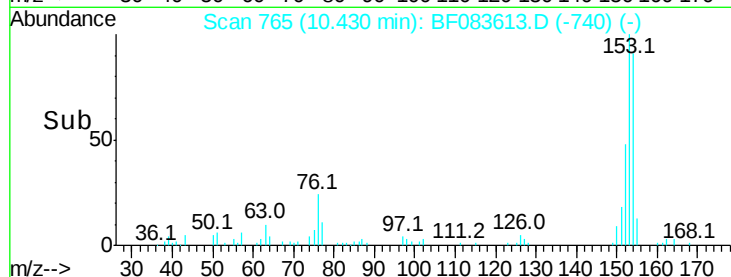
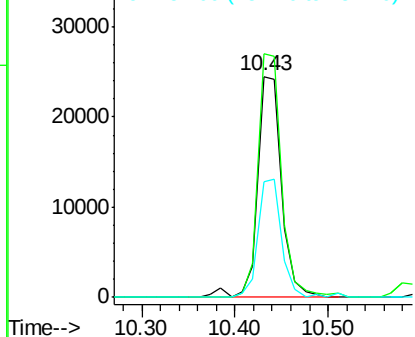
Tot Ion:	154	Resp:	44112
Ion Ratio	Lower	Upper	
154	100		
153	110.4	91.4	137.0
152	52.7	43.4	65.2

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12/9/2015 6:13:30 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: 2.23 ng

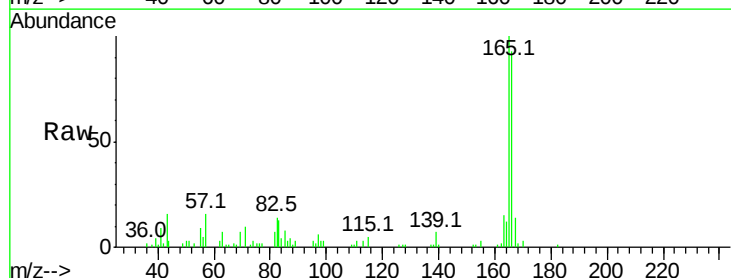
RT: 11.28 min Scan# 839

Delta R.T. 0.00 min

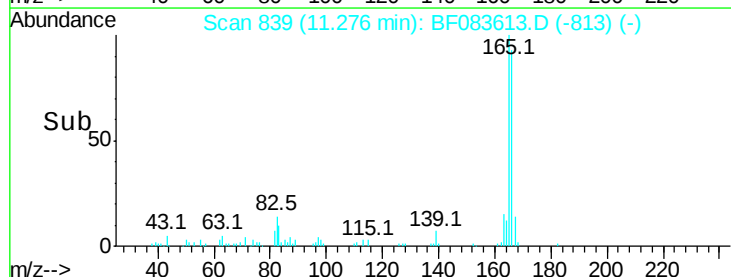
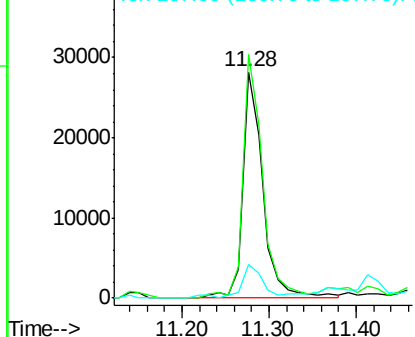
Lab File: BF083613.D

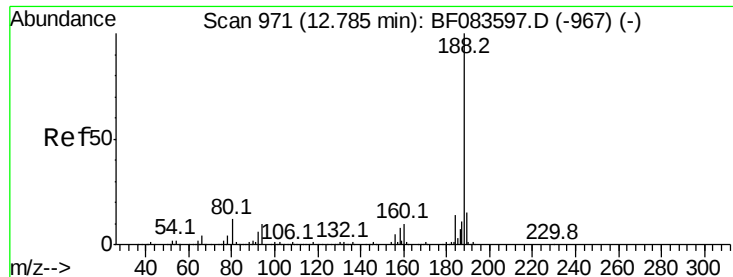
Acq: 9 Dec 2015 00:20

Tgt Ion:	166	Resp:	44812
Ion Ratio	Lower	Upper	
166	100		
165	107.7	80.0	120.0
167	14.9	10.6	16.0



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





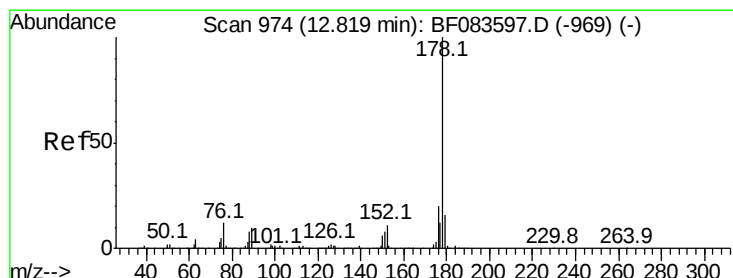
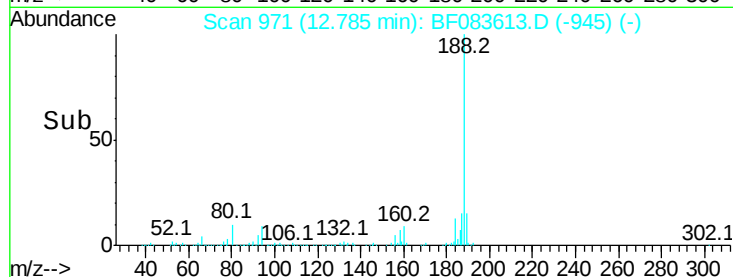
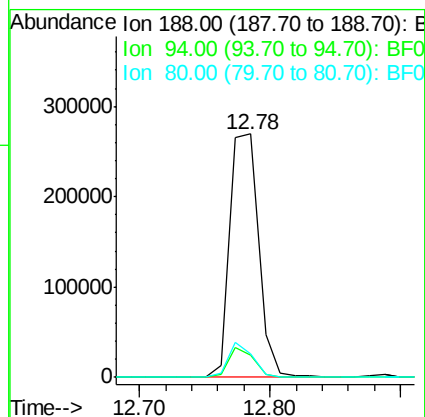
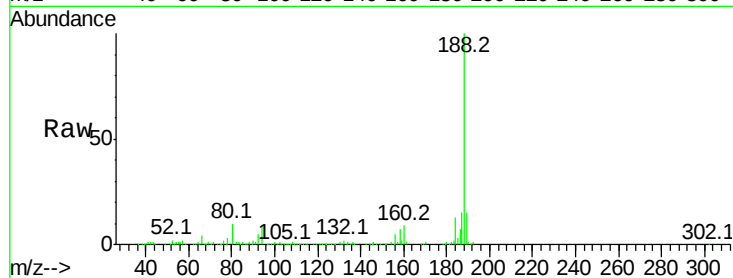
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.78 min Scan# 971
Delta R.T. 0.00 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Instrument :
BNA_F
ClientSampleId :
PCPY2A

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.9	9.4	14.2#
80	9.7	10.6	16.0#

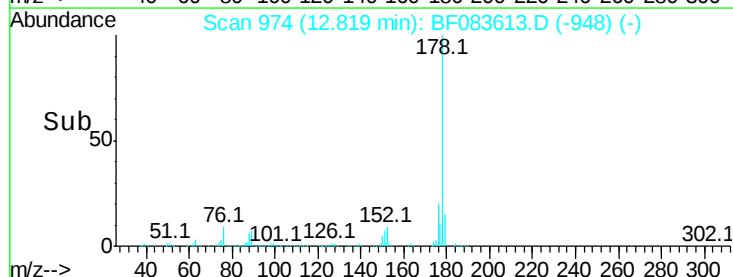
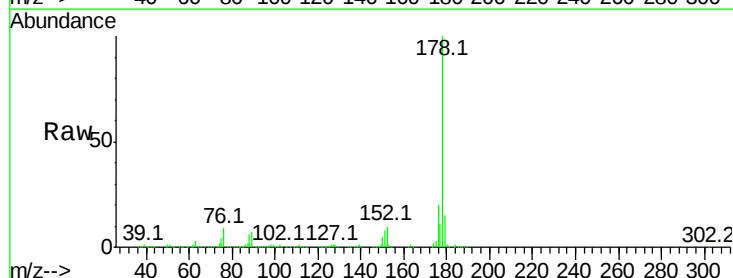
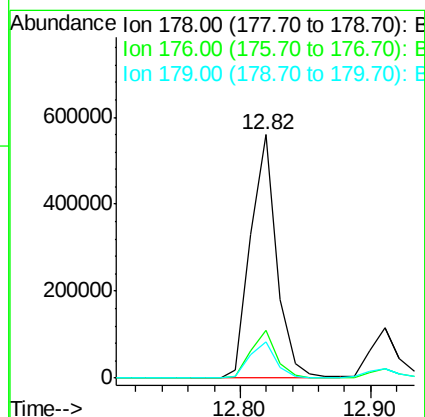
Manual Integrations
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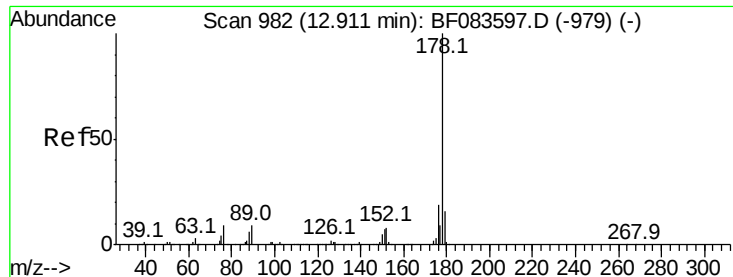
Mmdadoda
12/9/2015 6:13:30 PM



#70
Phenanthrene
Concen: 32.70 ng
RT: 12.82 min Scan# 974
Delta R.T. 0.00 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.0	12.2	18.4





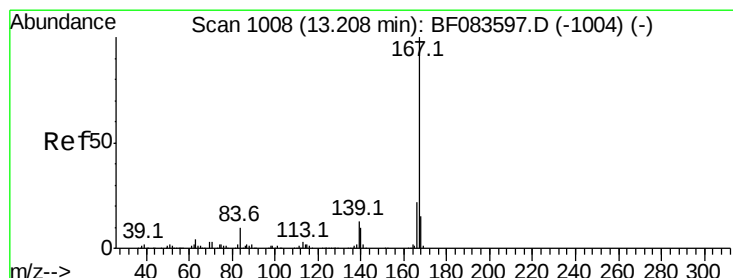
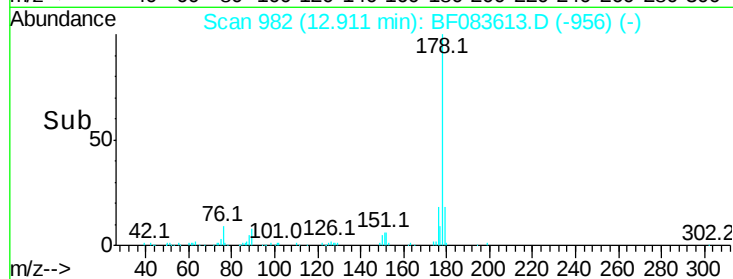
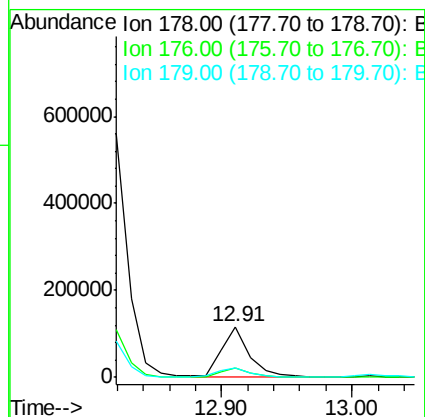
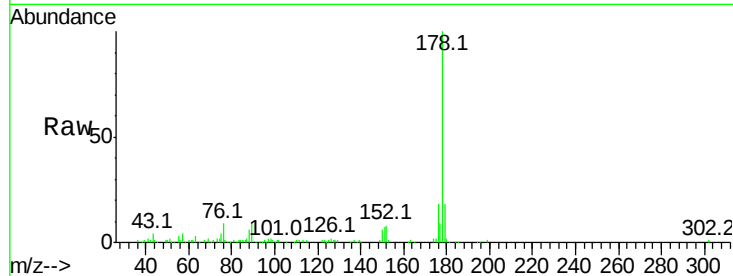
#71
 Anthracene
 Concen: 6.81 ng
 RT: 12.91 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: BF083613.D
 Acq: 9 Dec 2015 00:20

Instrument :
 BNA_F
 ClientSampleId :
 PCPY2A

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.5	15.2	22.8
179	17.6	12.6	18.8

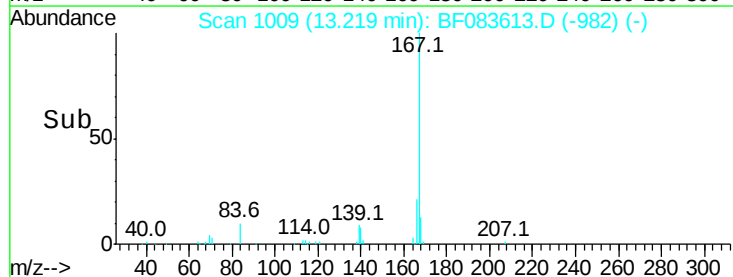
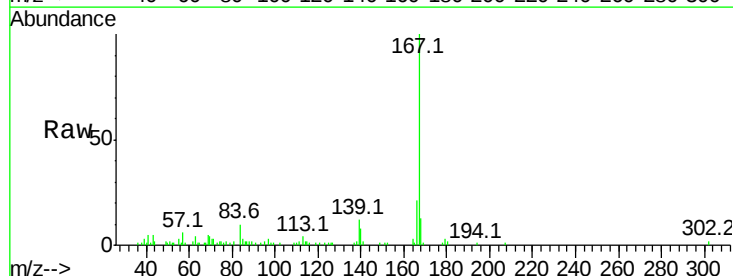
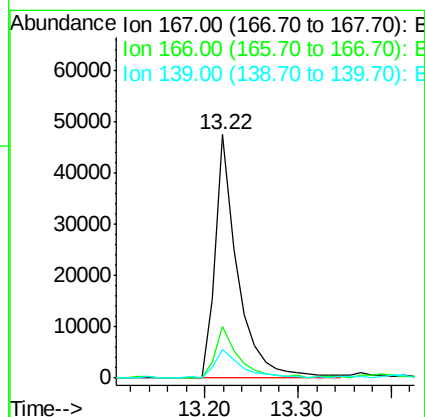
Manual Integrations
 APPROVED

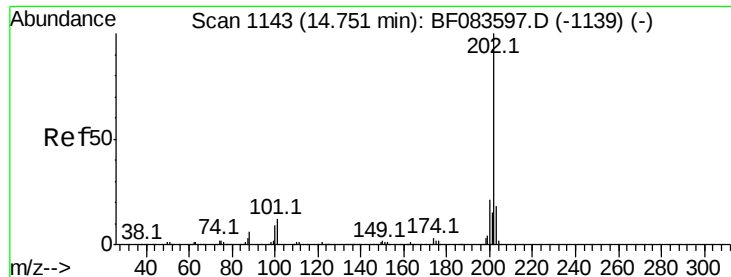
Mmdadoda
 12/9/2015 6:13:30 PM



#72
 Carbazole
 Concen: 3.76 ng
 RT: 13.22 min Scan# 1009
 Delta R.T. 0.01 min
 Lab File: BF083613.D
 Acq: 9 Dec 2015 00:20

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.2	25.8
139	11.9	9.3	13.9





#74

Fluoranthene

Concen: 49.42 ng

RT: 14.75 min Scan# 1143

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

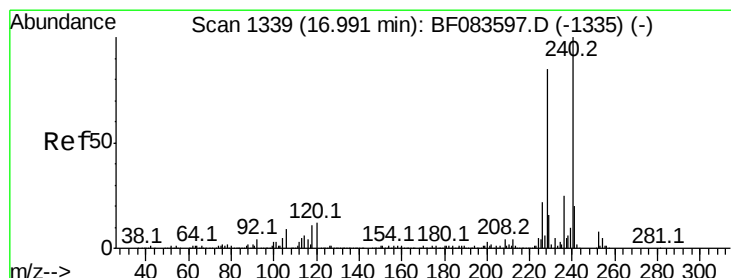
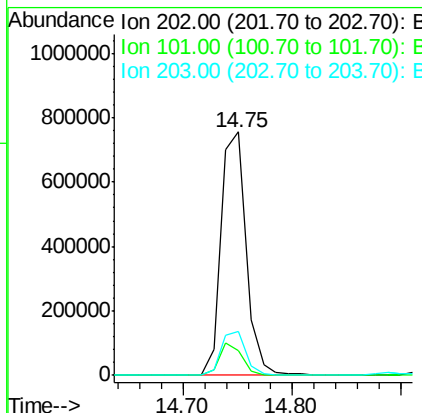
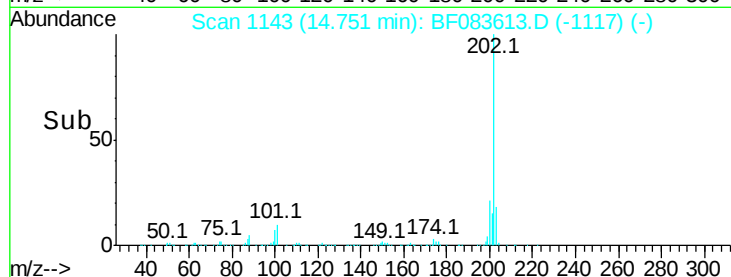
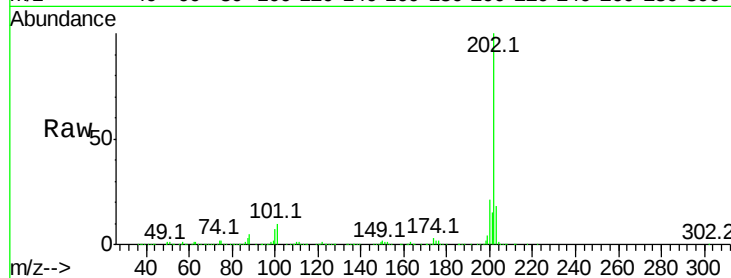
ClientSampleId :

PCPY2A

Tot Ion:	202	Resp:	1209075
Ion Ratio	Lower	Upper	
202	100		
101	10.1	0.0	31.5
203	18.0	0.0	37.6

Manual Integrations
APPROVED

Mmdadoda
12/9/2015 6:13:30 PM



#75

Chrysene-d12

Concen: 20.00 ng

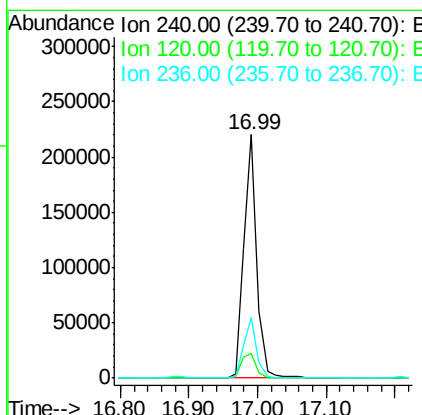
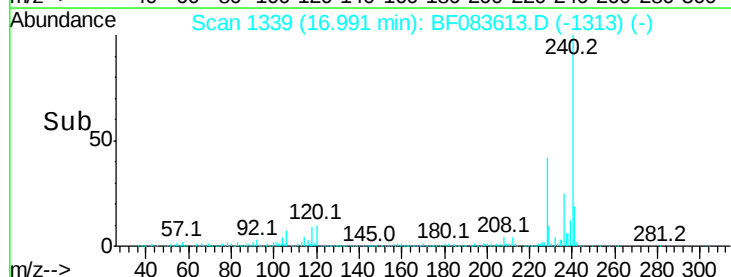
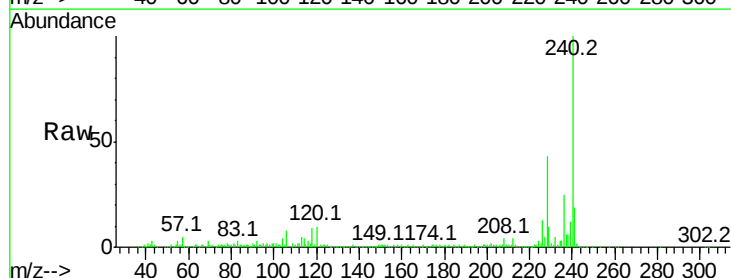
RT: 16.99 min Scan# 1339

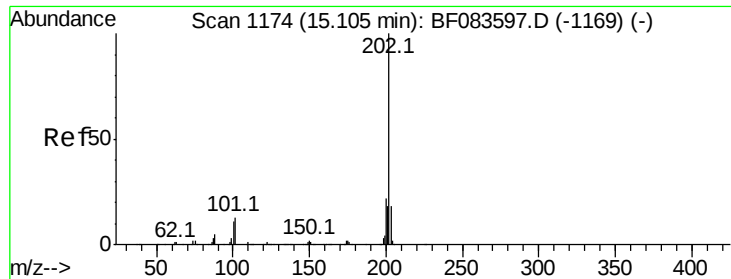
Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Tgt Ion:	240	Resp:	287113
Ion Ratio	Lower	Upper	
240	100		
120	10.1	8.1	12.1
236	25.0	20.8	31.2





#77

Pvrene

Concen: 48.39 ng

RT: 15.11 min Scan# 1174

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

ClientSampleId :

PCPY2A

Tot Ion:202 Resp: 1000188

Ion Ratio Lower Upper

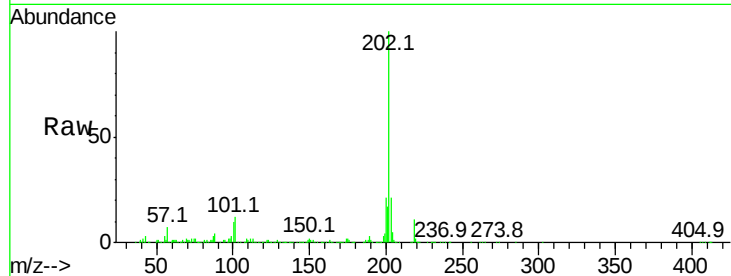
202 100

200 21.2 16.7 25.1

203 20.9 14.3 21.5

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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

800000

600000

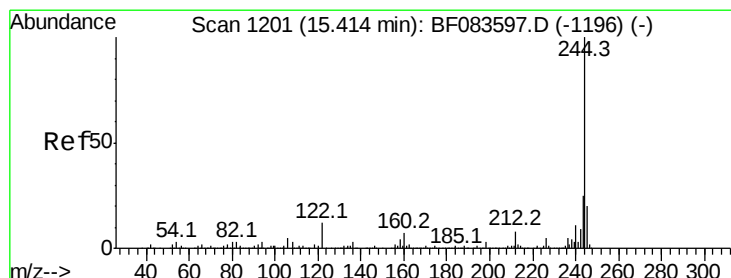
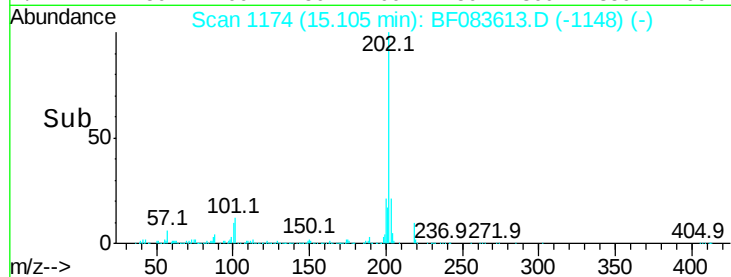
400000

200000

0

15.00 15.10 15.20 15.30

Time-->



#78

Terphenyl-d14

Concen: 62.14 ng

RT: 15.40 min Scan# 1200

Delta R.T. -0.01 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

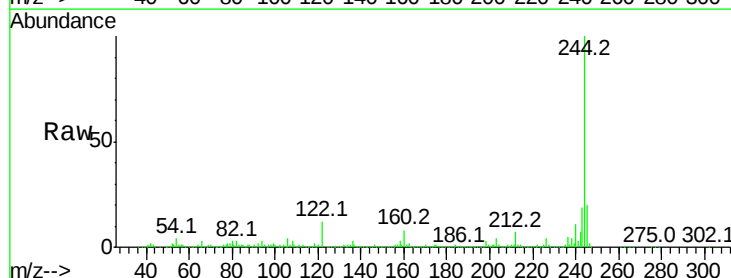
Tgt Ion:244 Resp: 758312

Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

122 11.9 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

600000

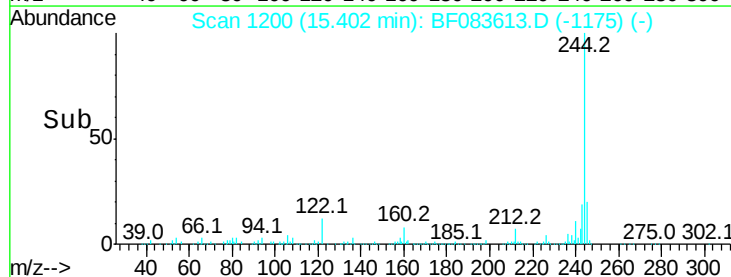
400000

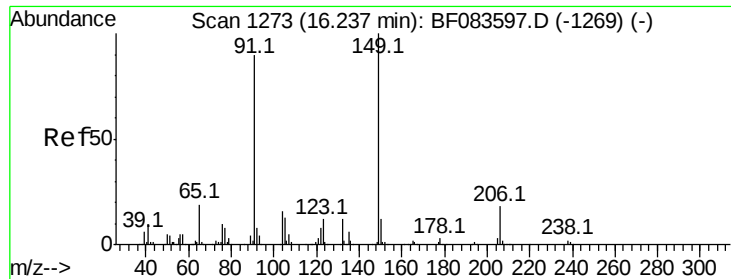
200000

0

15.30 15.40 15.50 15.60

Time-->





#79

Butylbenzylphthalate

Concen: 7.37 ng

RT: 16.24 min Scan# 1273

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

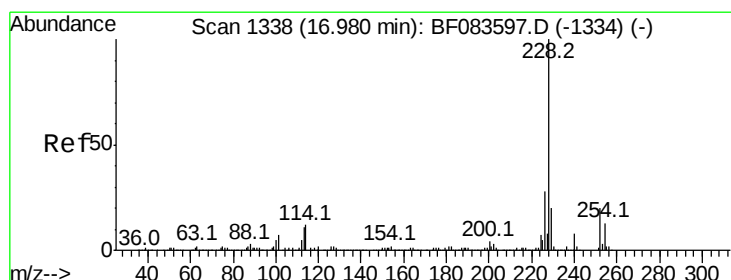
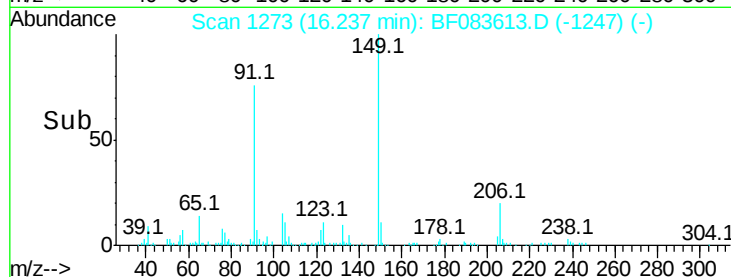
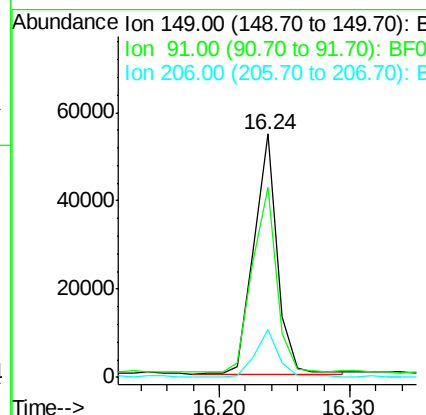
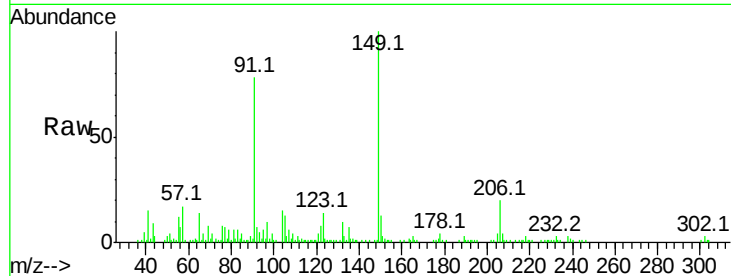
ClientSampleId :

PCPY2A

Tot Ion:	149	Resp:	67641
Ion Ratio	Lower	Upper	
149	100		
91	77.8	60.0	90.0
206	19.9	16.2	24.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 30.81 ng

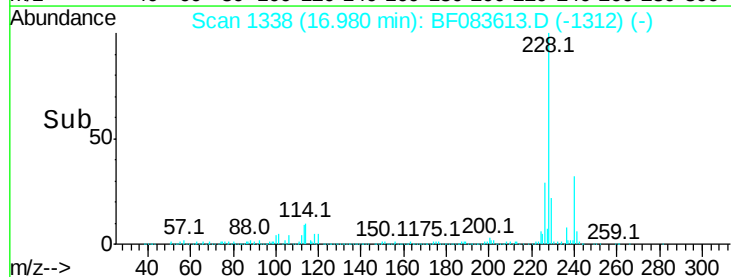
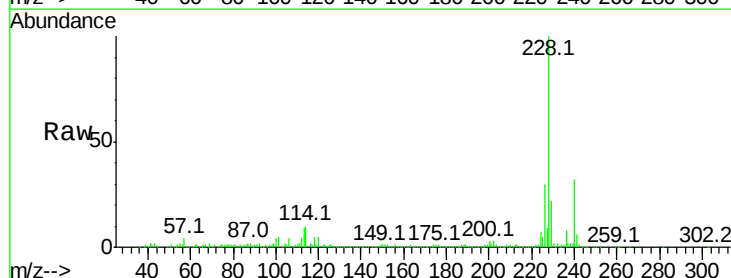
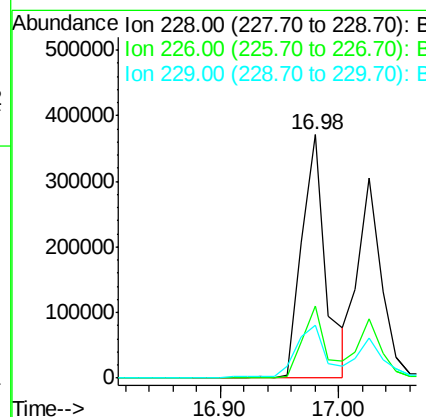
RT: 16.98 min Scan# 1338

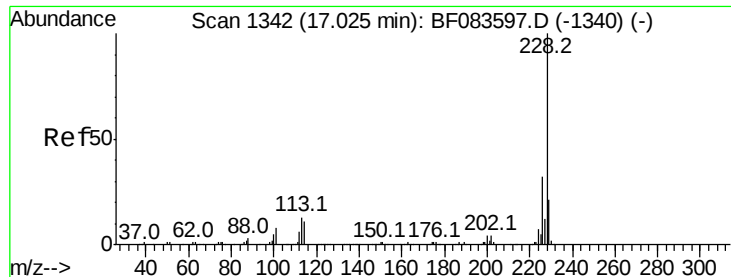
Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Tgt Ion:	228	Resp:	517828
Ion Ratio	Lower	Upper	
228	100		
226	29.7	22.3	33.5
229	21.7	15.7	23.5





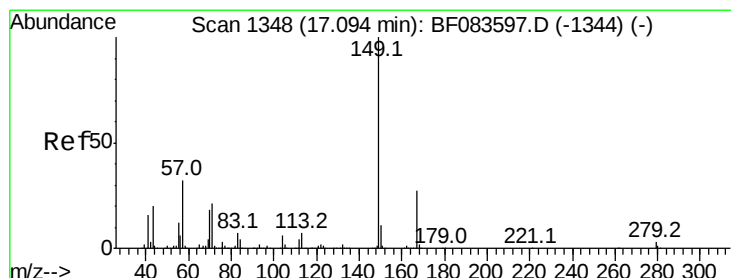
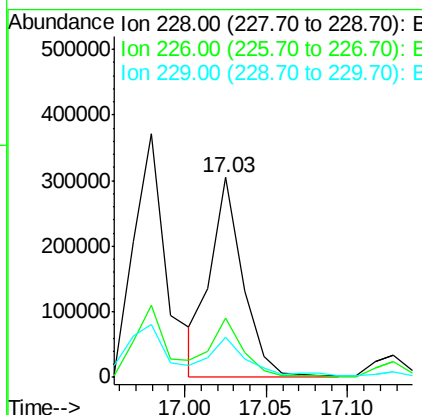
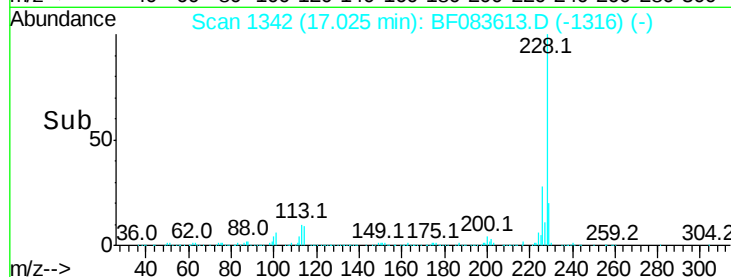
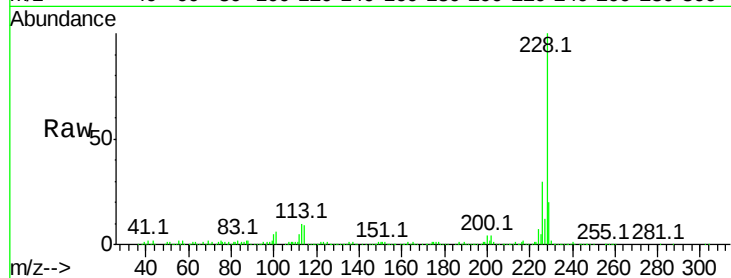
#82
 Chrysene
 Concen: 24.90 ng
 RT: 17.03 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: BF083613.D
 Acq: 9 Dec 2015 00:20

Instrument :
 BNA_F
 ClientSampleId :
 PCPY2A

Tot Ion:	228	Resp:	419428
Ion Ratio	Lower	Upper	
228	100		
226	29.5	24.7	37.1
229	19.9	16.3	24.5

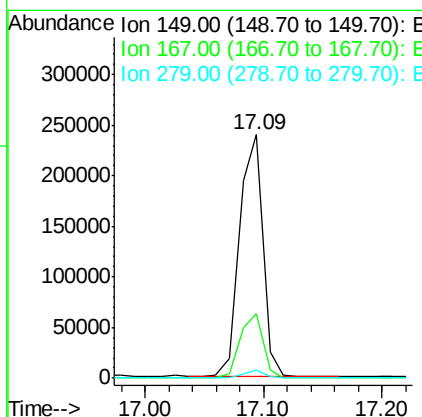
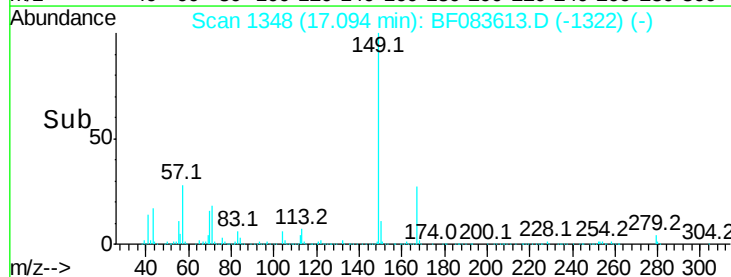
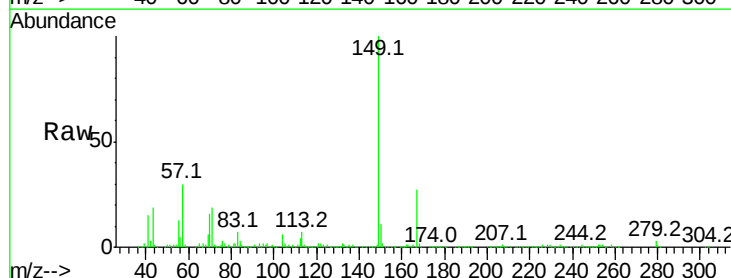
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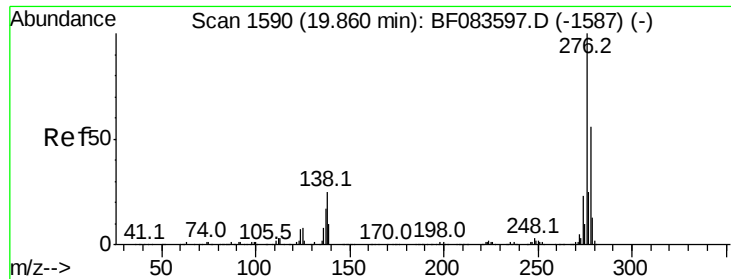
Mmdadoda
 12/9/2015 6:13:30 PM



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 25.80 ng
 RT: 17.09 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: BF083613.D
 Acq: 9 Dec 2015 00:20

Tgt Ion:	149	Resp:	328591
Ion Ratio	Lower	Upper	
149	100		
167	26.6	21.8	32.8
279	3.5	3.0	4.4





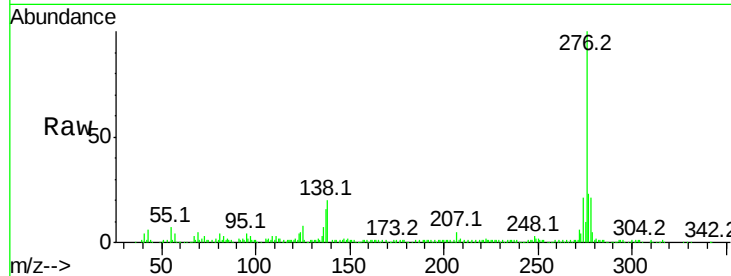
#85
Indeno(1,2,3-cd)pyrene
Concen: 22.07 ng
RT: 19.88 min Scan# 1592
Delta R.T. 0.02 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Instrument :
BNA_F
ClientSampled :
PCPY2A

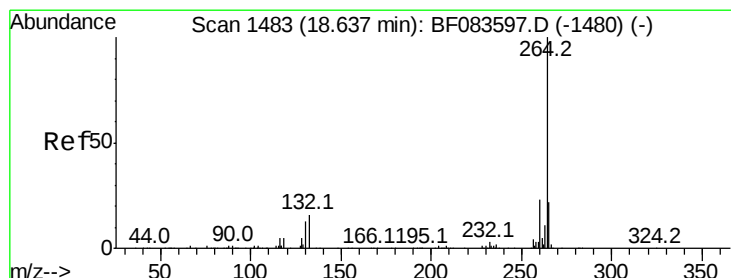
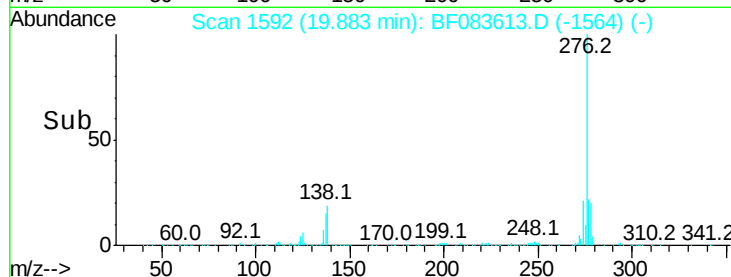
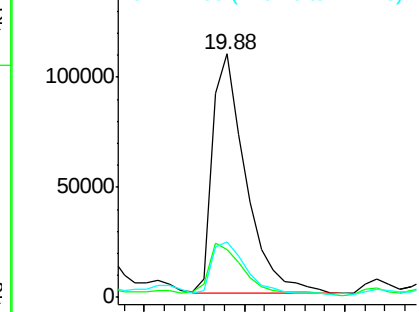
Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	23.0	0.0	0.0#
277	23.4	0.0	0.0#

Manual Integrations
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Mmdadoda
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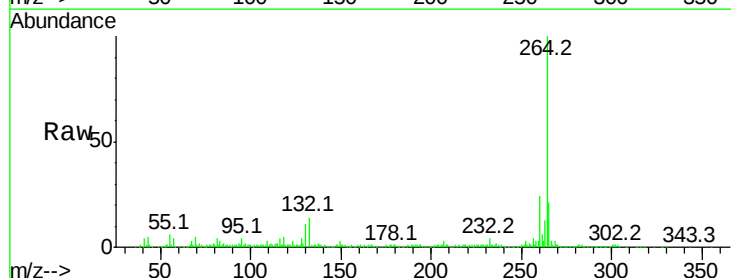


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

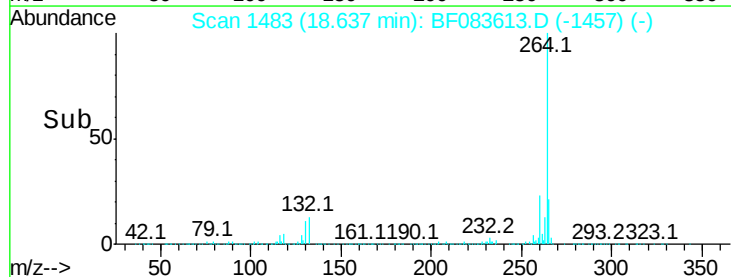
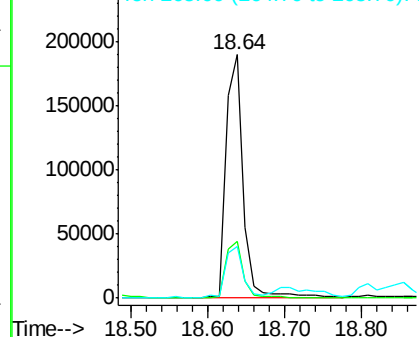


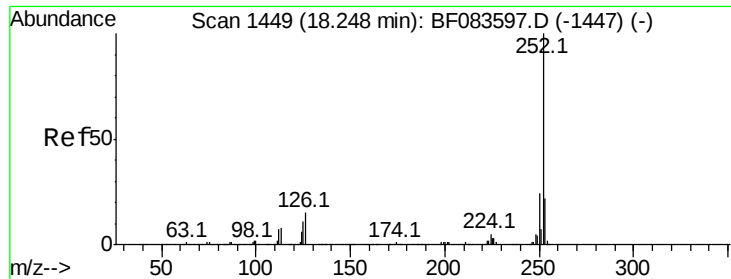
#86
Perylene-d12
Concen: 20.00 ng
RT: 18.64 min Scan# 1483
Delta R.T. 0.00 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.6	19.4	29.0
265	21.1	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: 34.62 ng m

RT: 18.25 min Scan# 1449

Delta R.T. 0.00 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

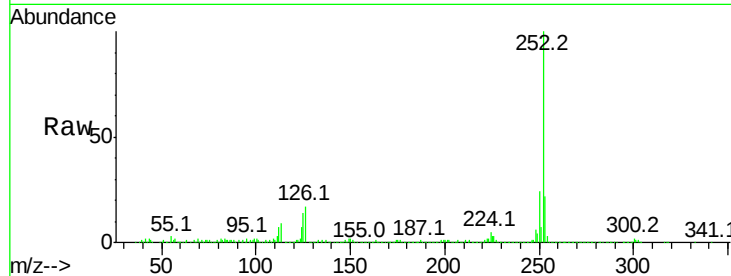
ClientSampleId :

PCPY2A

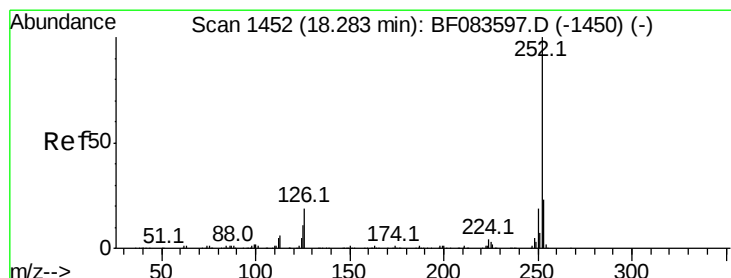
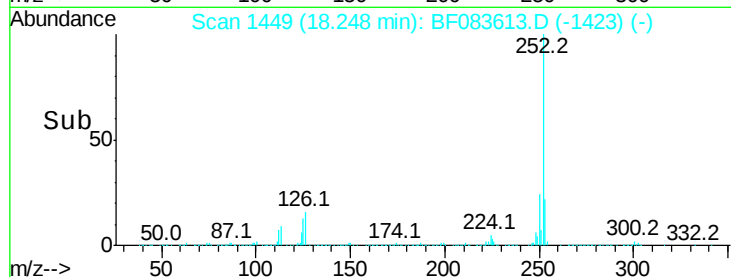
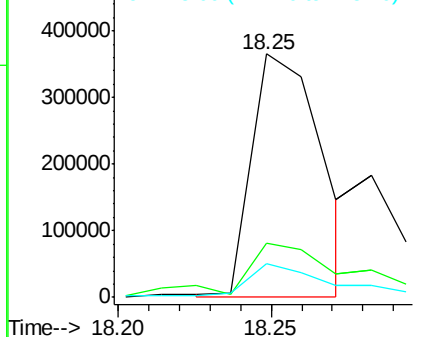
Tot Ion:	252	Resp:	582833
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.2	27.4
125	13.6	8.2	12.4#

Manual Integrations
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12/9/2015 6:13:30 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



#88

Benzo(k)fluoranthene

Concen: 11.22 ng m

RT: 18.28 min Scan# 1452

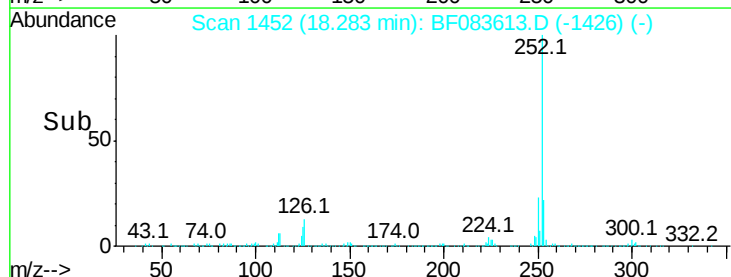
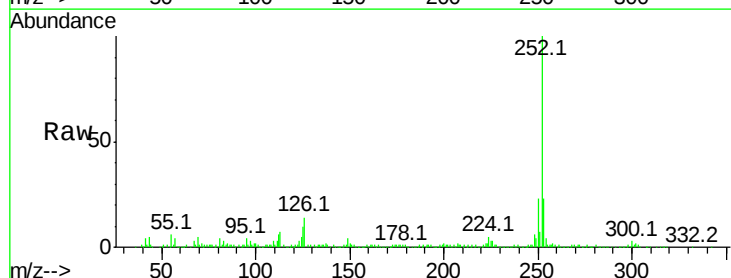
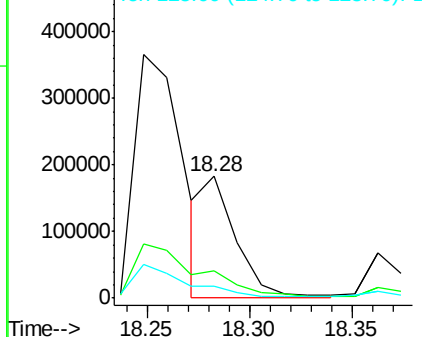
Delta R.T. 0.00 min

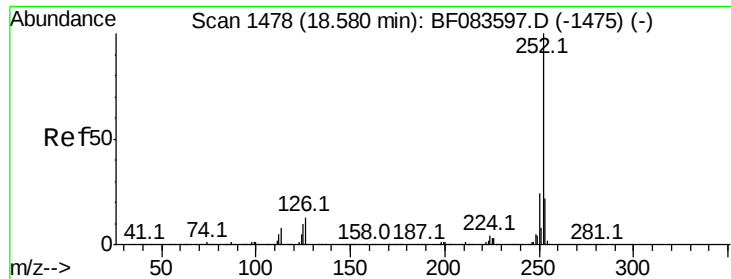
Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Tgt Ion:	252	Resp:	208170
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.6	27.8
125	10.0	11.5	17.3#

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





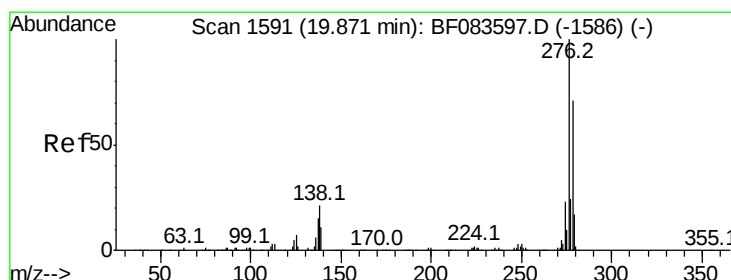
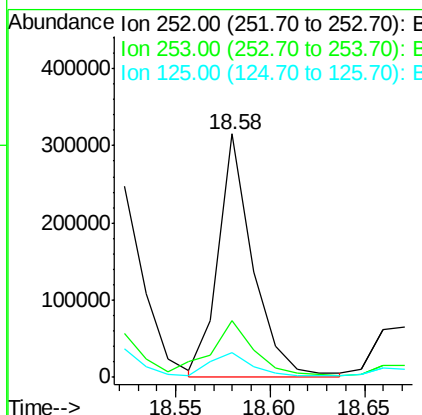
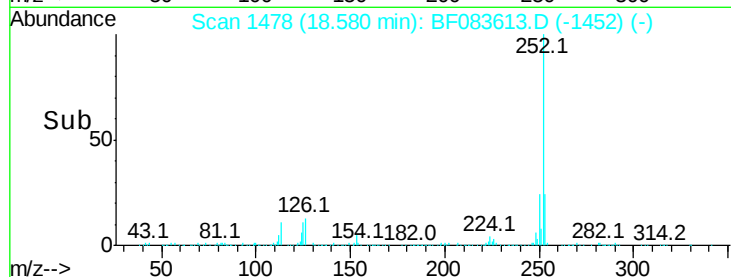
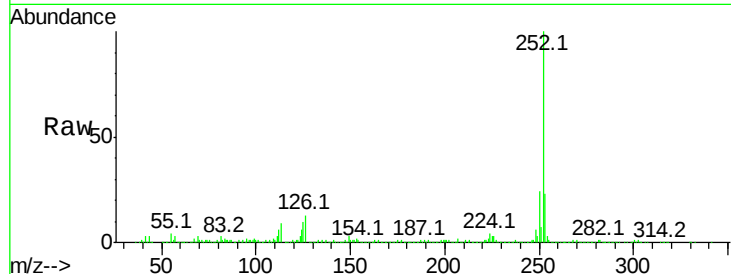
#89
Benzo(a)pyrene
Concen: 24.50 ng m
RT: 18.58 min Scan# 1478
Delta R.T. 0.00 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Instrument :
BNA_F
ClientSampleId :
PCPY2A

Tot Ion	Ratio	Resp	Lower	Upper
252	100	402533		
253	23.1		17.5	26.3
125	10.2		11.0	16.6

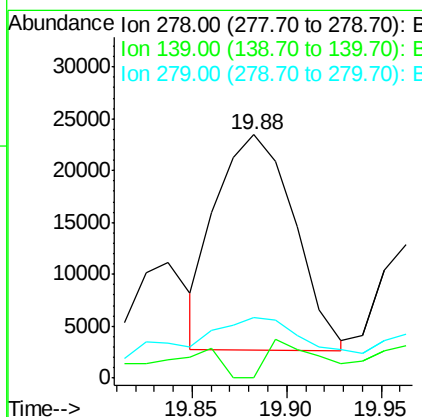
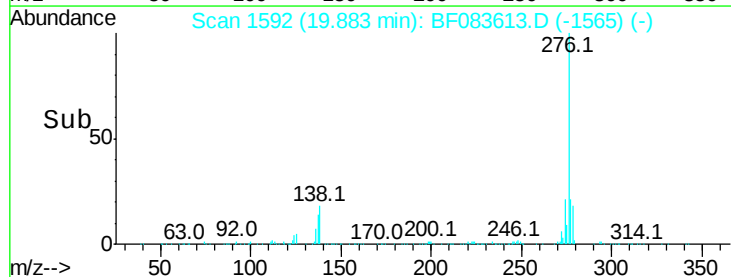
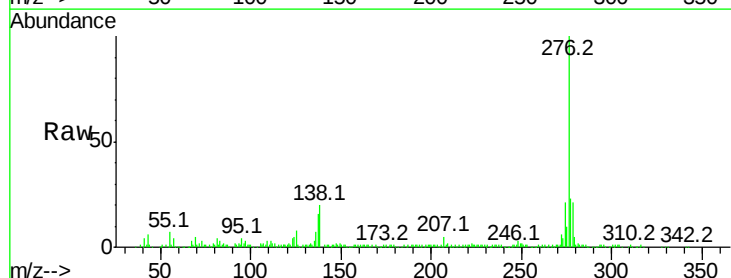
Manual Integrations
APPROVED

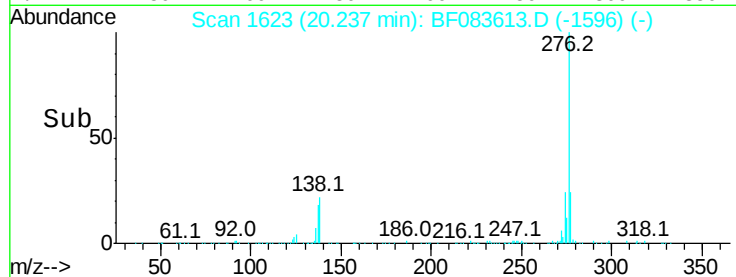
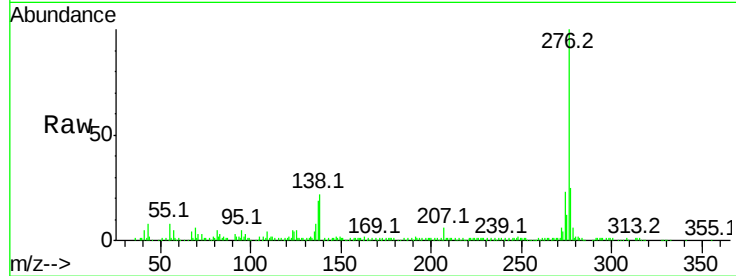
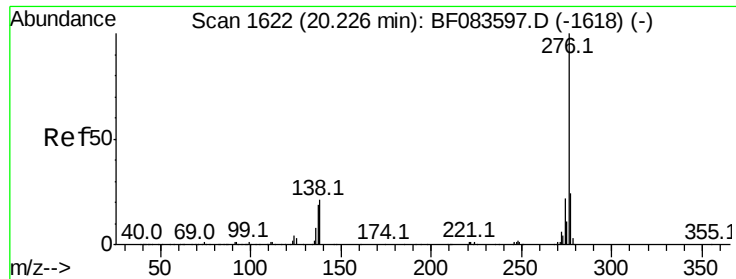
Mmdadoda
12/9/2015 6:13:30 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.77 ng m
RT: 19.88 min Scan# 1592
Delta R.T. 0.01 min
Lab File: BF083613.D
Acq: 9 Dec 2015 00:20

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	59944		
139	0.0		12.8	19.2
279	24.6		18.6	28.0





#91

Benzo(a,h,i)perylene

Concen: 18.61 ng

RT: 20.24 min Scan# 1623

Delta R.T. 0.01 min

Lab File: BF083613.D

Acq: 9 Dec 2015 00:20

Instrument :

BNA_F

ClientSampleId :

PCPY2A

Tot Ion:	276	Resp:	227894
Ion Ratio	Lower	Upper	
276	100		
277	24.7	19.2	28.8
138	21.9	19.5	29.3

Manual Integrations
APPROVED

Mmdadoda
12/9/2015 6:13:30 PM

