

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083556.D
 Acq On : 7 Dec 2015 11:48
 Operator : UM/IZ
 Sample : G4614-01DL 5X
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S34-15.5DL

Manual Integrations
 APPROVED

Mmdadoda
 12/7/2015 6:33:48 PM

Quant Time: Dec 07 12:57:15 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	5.73	152	154448	20.00	ng	-0.03
21) Naphthalene-d8	7.63	136	568449	20.00	ng	-0.05
38) Acenaphthene-d10	10.42	164	262026	20.00	ng	-0.05
63) Phenanthrene-d10	12.82	188	403025	20.00	ng	-0.03
75) Chrysene-d12	17.01	240	340409	20.00	ng	-0.03
86) Perylene-d12	18.65	264	268777	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.01	112	298860	29.36	ng	-0.02
7) Phenol-d6	5.30	99	410188	29.24	ng	-0.02
23) Nitrobenzene-d5	6.56	82	254696	20.94	ng	-0.05
41) 2,4,6-Tribromophenol	11.71	330	57026	23.59	ng	-0.05
44) 2-Fluorobiphenyl	9.38	172	374184	19.37	ng	-0.05
78) Terphenyl-d14	15.45	244	245132	16.02	ng	-0.03
Target Compounds						Qvalue
20) 3+4-Methylphenols	6.43	107	40597	3.34	ng	96
31) Naphthalene	7.66	128	61385	2.03	ng	100
49) Dimethylphthalate	10.06	163	81208	3.94	ng	# 98
51) Acenaphthene	10.48	154	61549	3.72	ng	97
54) Dibenzofuran	10.76	168	48733	2.13	ng	95
57) Fluorene	11.31	166	67561	3.39	ng	97
70) Phenanthrene	12.85	178	657099	28.01	ng	99
71) Anthracene	12.95	178	159061	6.65	ng	97
72) Carbazole	13.24	167	58674	2.86	ng	98
74) Fluoranthene	14.79	202	717946	30.88	ng	98
77) Pyrene	15.14	202	617385	24.24	ng	# 95
80) Benzo(a)anthracene	17.00	228	290042	14.56	ng	97
82) Chrysene	17.05	228	274622	13.84	ng	99
85) Indeno(1,2,3-cd)pyrene	19.89	276	84284	4.96	ng	# 100
87) Benzo(b)fluoranthene	18.27	252	279259m	18.50	ng	
88) Benzo(k)fluoranthene	18.29	252	61077m	3.95	ng	
89) Benzo(a)pyrene	18.55	252	118752	8.09	ng	97
91) Benzo(g,h,i)perylene	20.26	276	81017	5.69	ng	98

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

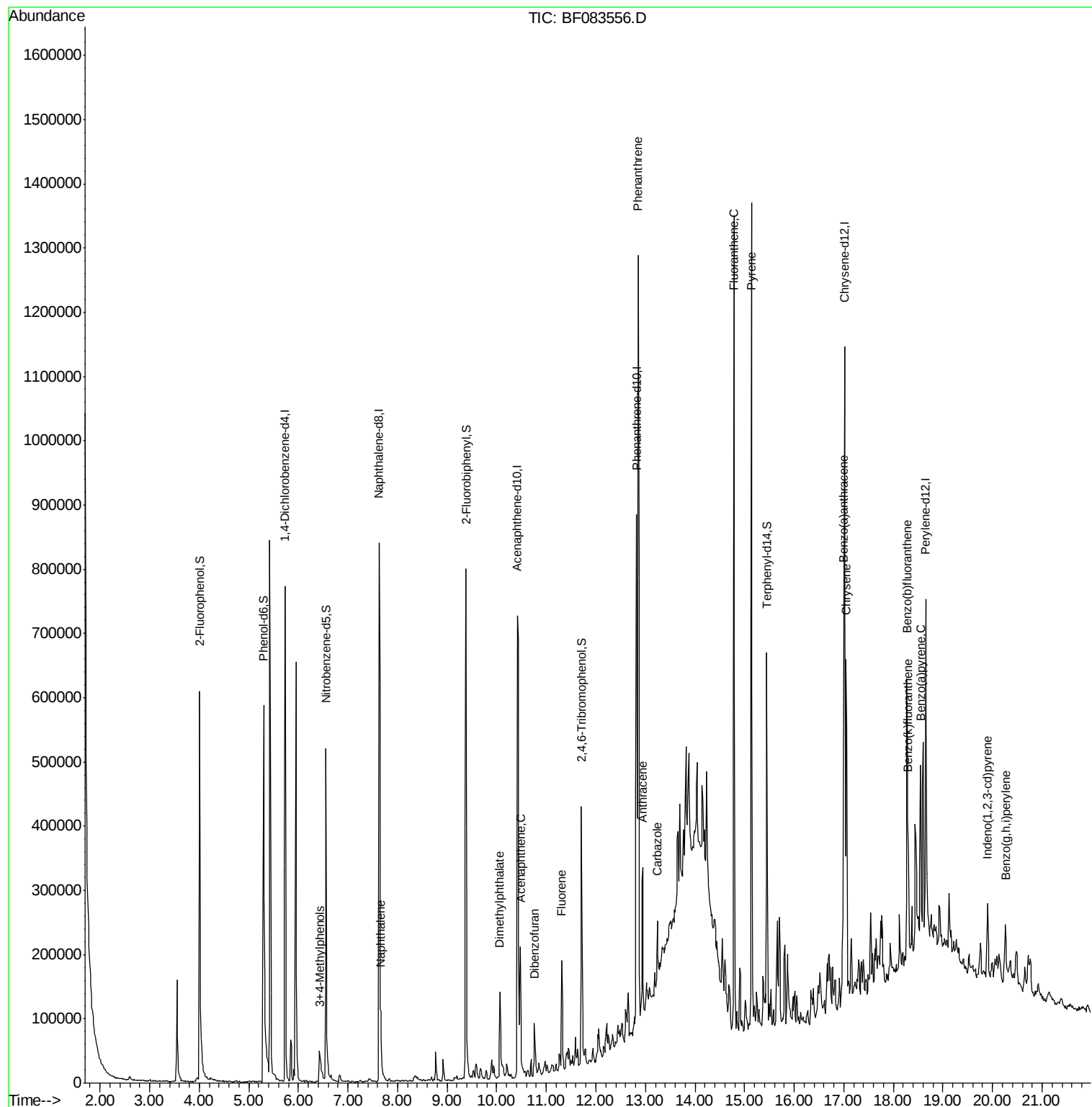
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083556.D
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Sample : G4614-01DL 5X
Misc :
ALS Vial : 67 Sample Multiplier: 1

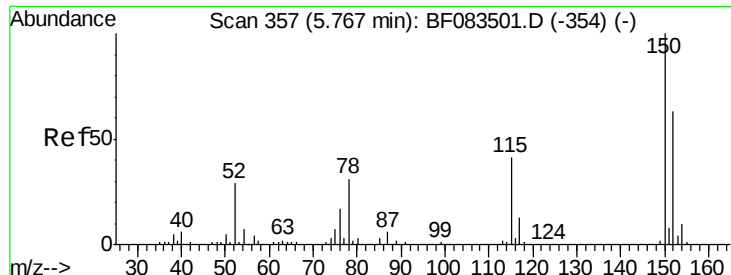
Instrument :
BNA_F
ClientSampled :
S34-15.5DL

Manual Integrations
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Quant Time: Dec 07 12:57:15 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

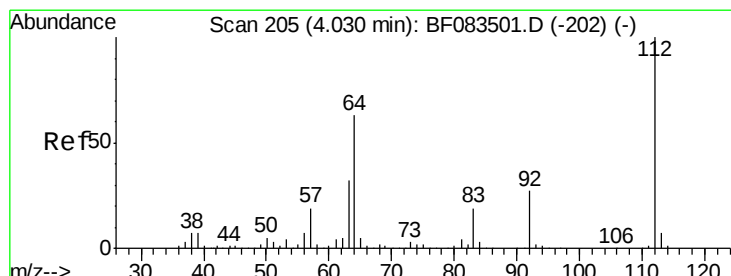
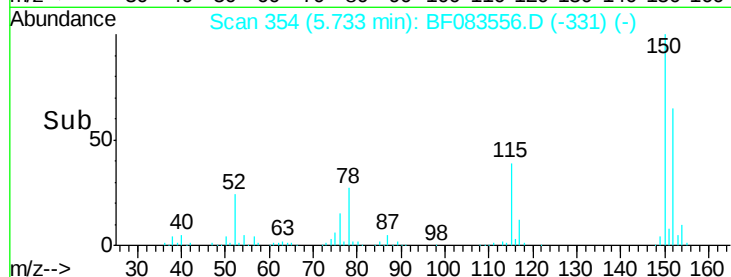
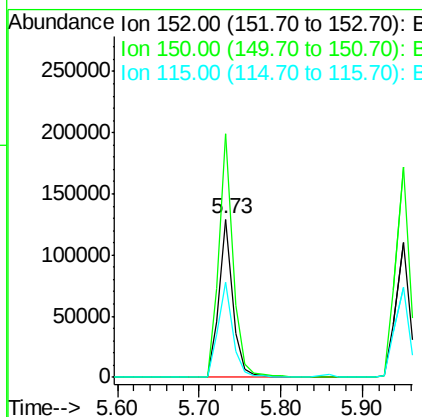
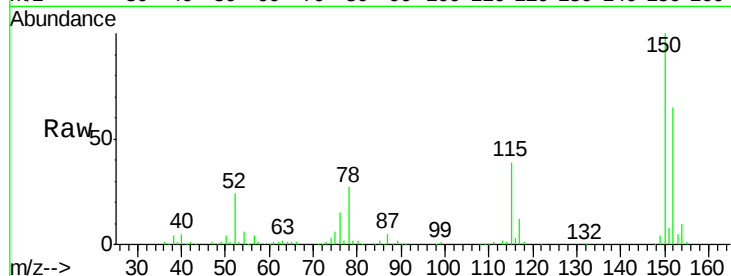
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.73 min Scan# 354
Delta R.T. -0.03 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Instrument :
BNA_F
ClientSampleId :
S34-15.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	126.5	189.7
115	60.3	52.3	78.5

Manual Integrations
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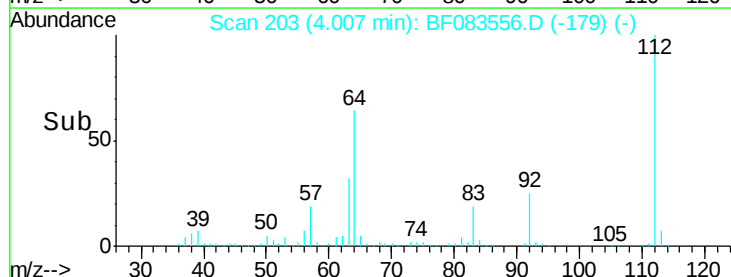
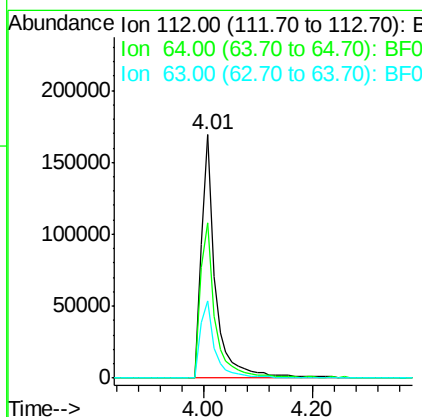
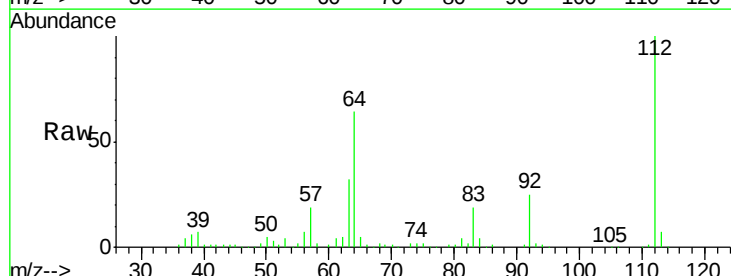
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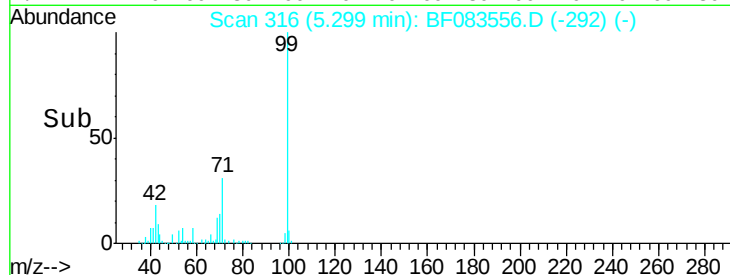
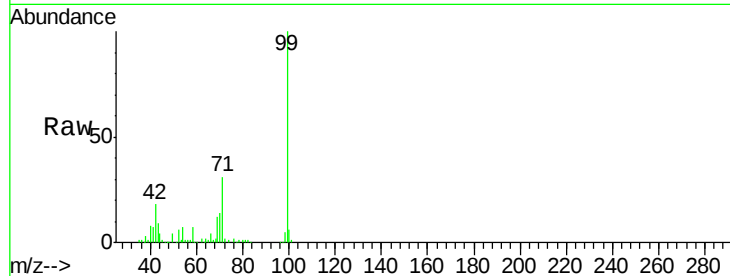


#5

2-Fluorophenol
Concen: 29.36 ng
RT: 4.01 min Scan# 203
Delta R.T. -0.02 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.0	50.5	75.7
63	31.7	25.8	38.6





#7

Phenol-d6

Concen: 29.24 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

ClientSampleId :

S34-15.5DL

Tot Ion: 99 Resp: 410188

Ion Ratio Lower Upper

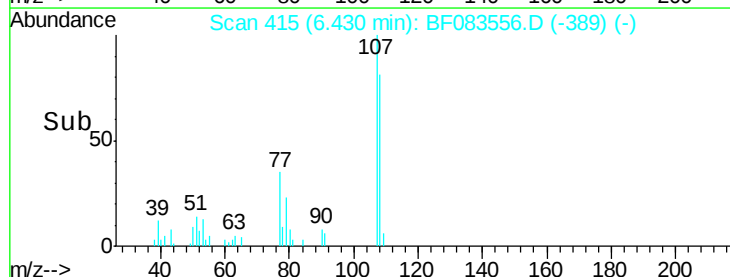
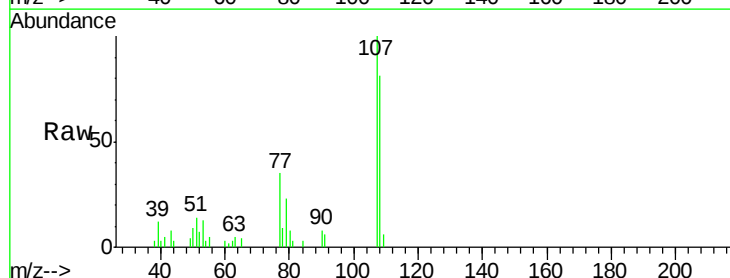
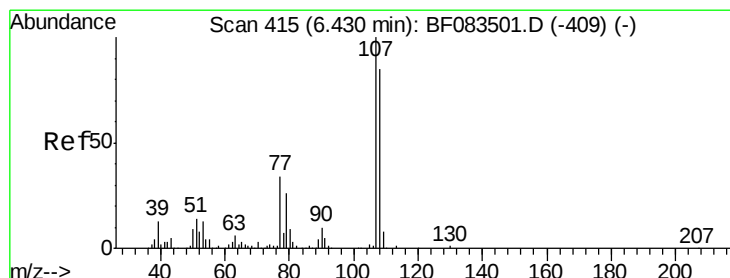
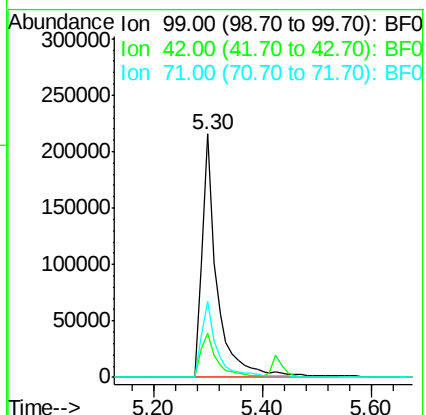
99 100

42 18.2 17.3 25.9

71 31.0 26.6 40.0

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#20

3+4-Methylphenols

Concen: 3.34 ng

RT: 6.43 min Scan# 415

Delta R.T. 0.00 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Tgt Ion: 107 Resp: 40597

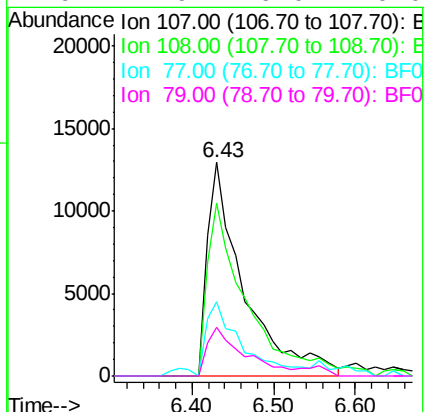
Ion Ratio Lower Upper

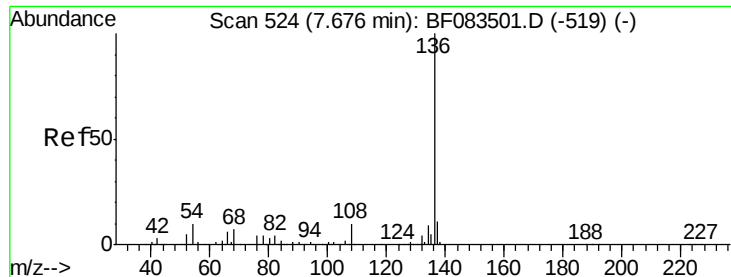
107 100

108 80.9 65.2 105.2

77 34.6 15.2 55.2

79 22.9 6.0 46.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.63 min Scan# 520

Delta R.T. -0.05 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

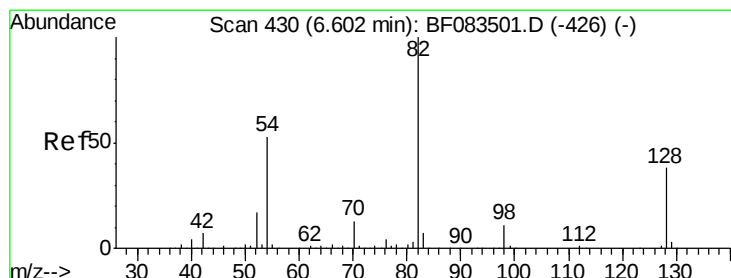
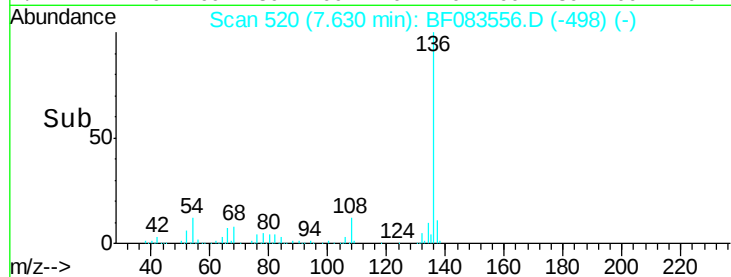
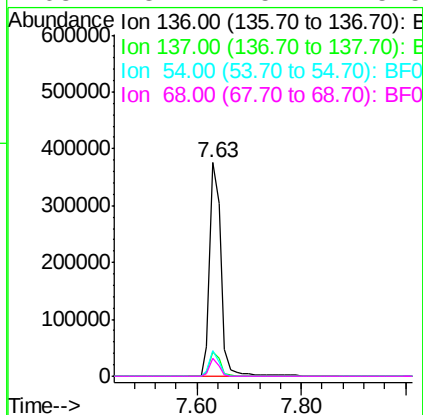
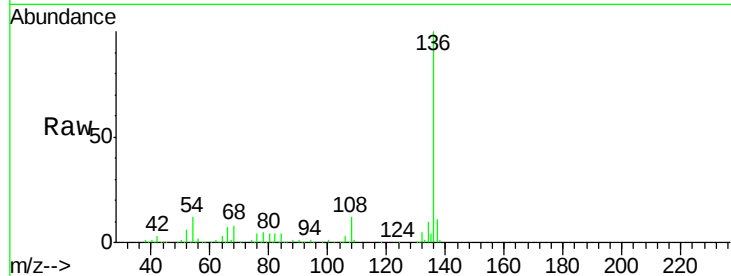
ClientSampleId :

S34-15.5DL

Tot Ion	Ratio	Resp	Lower	Upper
136	100	568449		
137	11.2		8.7	13.1
54	12.0		7.8	11.6
68	8.2		5.7	8.5

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#23

Nitrobenzene-d5

Concen: 20.94 ng

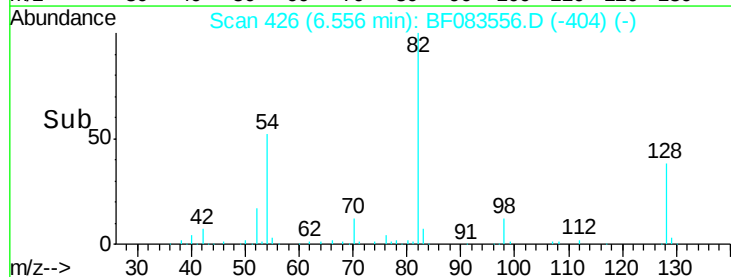
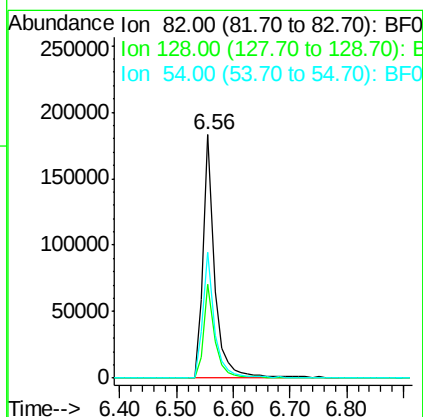
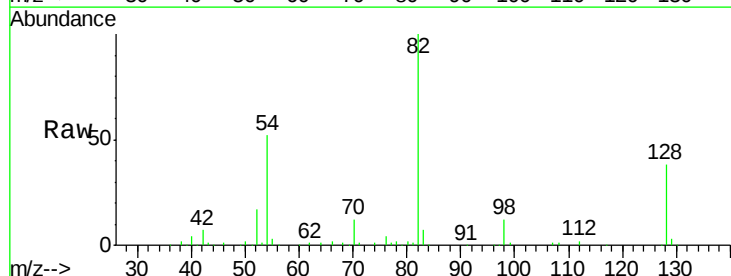
RT: 6.56 min Scan# 426

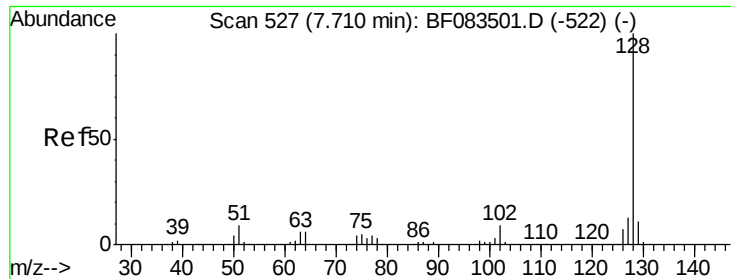
Delta R.T. -0.05 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	254696		
128	38.5		30.7	46.1
54	51.5		42.5	63.7





#31

Naphthalene

Concen: 2.03 ng

RT: 7.66 min Scan# 523

Delta R.T. -0.05 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

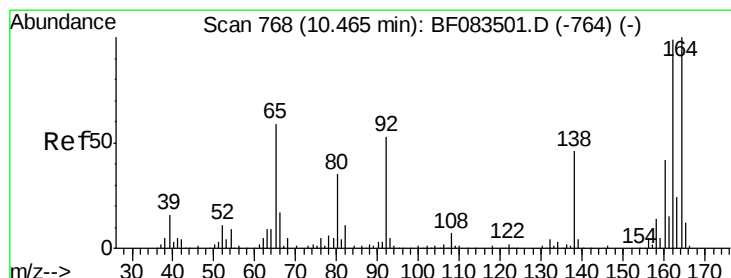
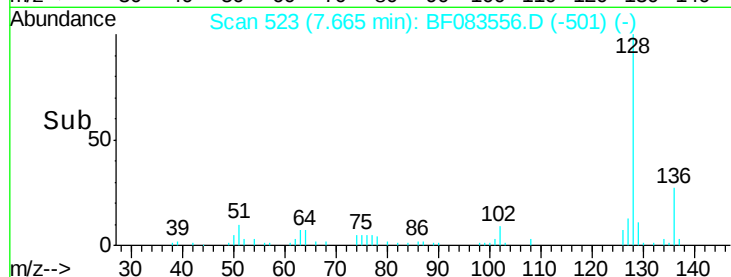
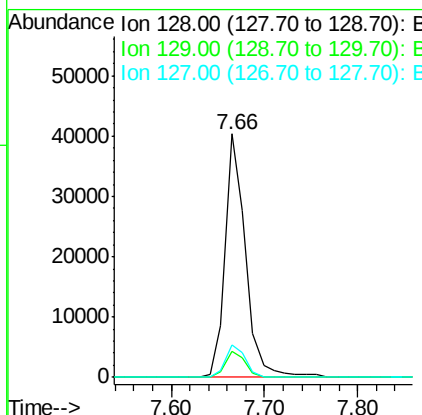
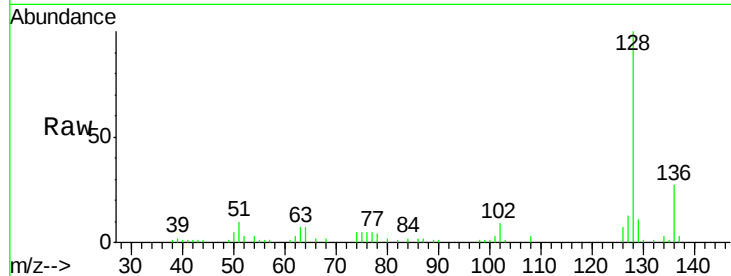
ClientSampleId :

S34-15.5DL

Tot Ion:	128	Resp:	61385
Ion Ratio		Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.2	10.6	16.0

Manual Integrations
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#38

Acenaphthene-d10

Concen: 20.00 ng

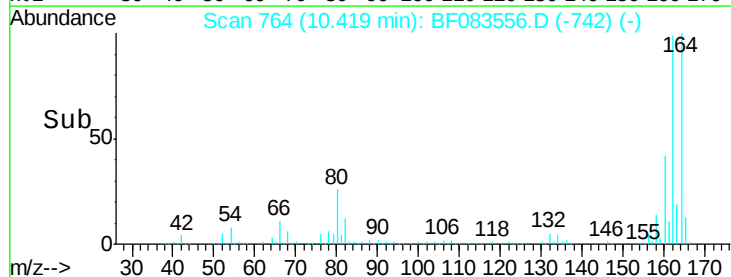
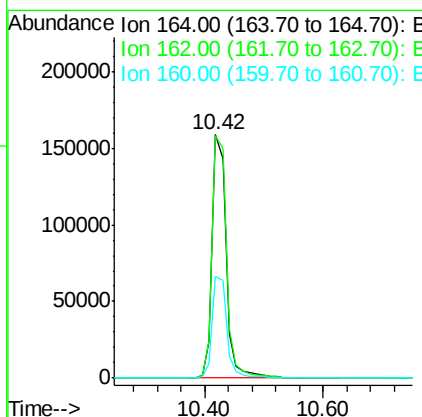
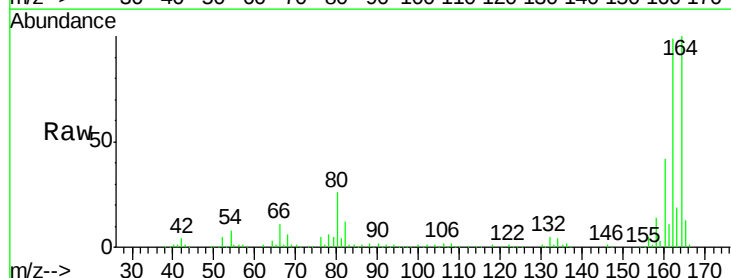
RT: 10.42 min Scan# 764

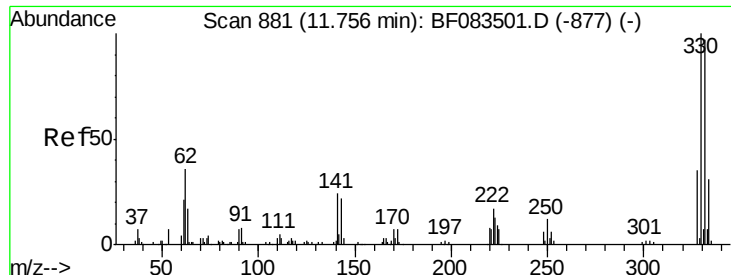
Delta R.T. -0.05 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Tgt Ion:	164	Resp:	262026
Ion Ratio		Lower	Upper
164	100		
162	99.5	78.8	118.2
160	41.9	33.4	50.2





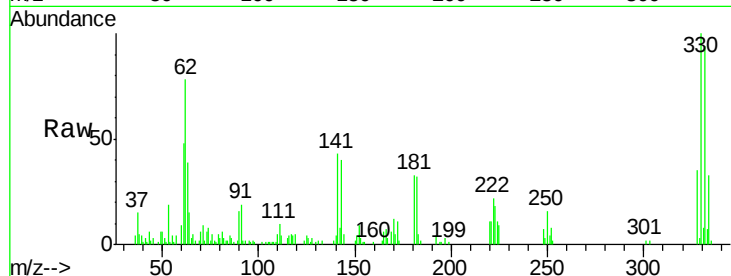
#41
 2,4,6-Tribromophenol
 Concen: 23.59 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083556.D
 Acq: 7 Dec 2015 11:48

Instrument :
 BNA_F
 ClientSampled :
 S34-15.5DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	57026		
332	96.9	0.0	0.0	0.0
141	42.1	0.0	0.0	0.0

Manual Integrations
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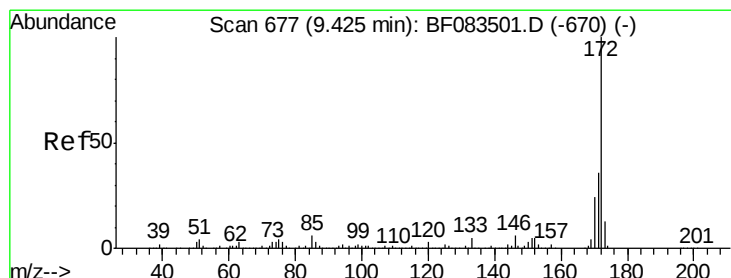
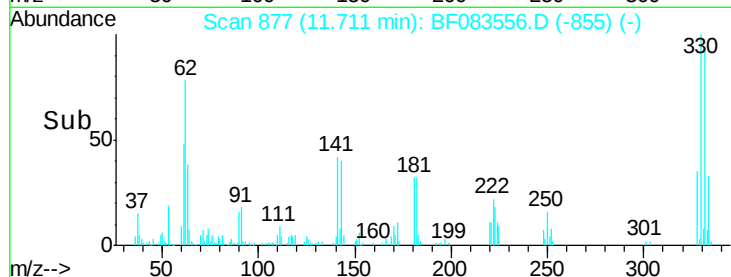
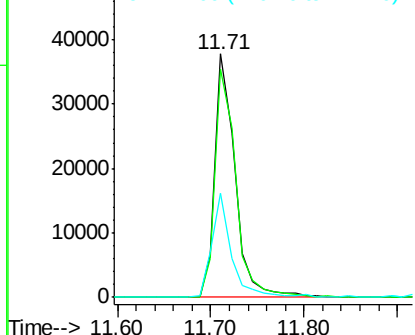


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 19.37 ng
 RT: 9.38 min Scan# 673
 Delta R.T. -0.05 min
 Lab File: BF083556.D
 Acq: 7 Dec 2015 11:48

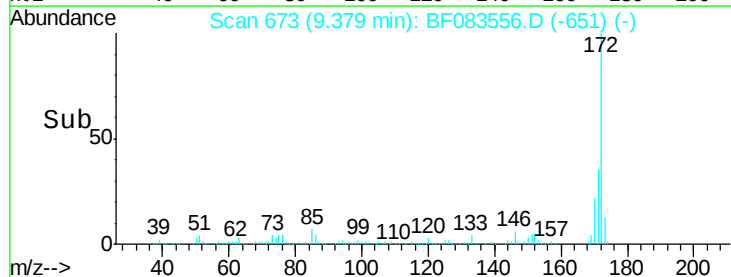
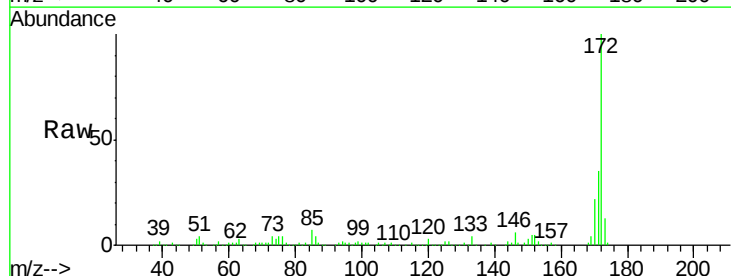
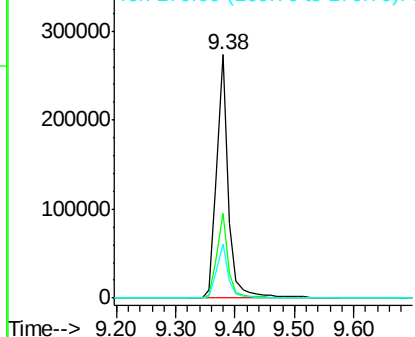
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	374184		
171	34.6	28.6	42.8	
170	22.5	19.4	29.0	

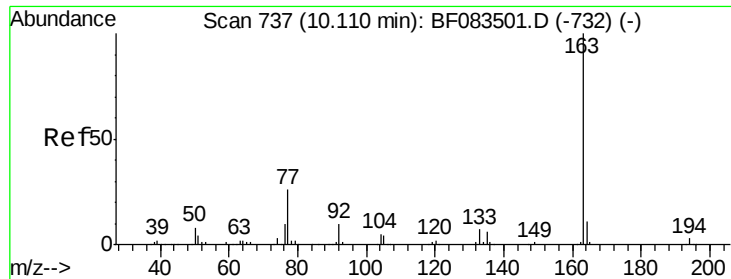
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





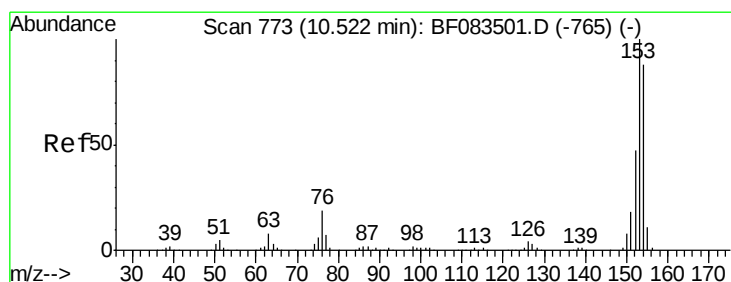
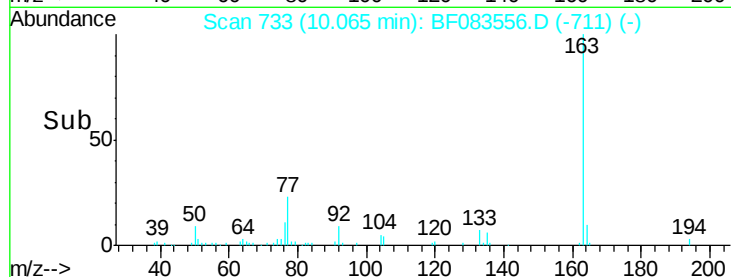
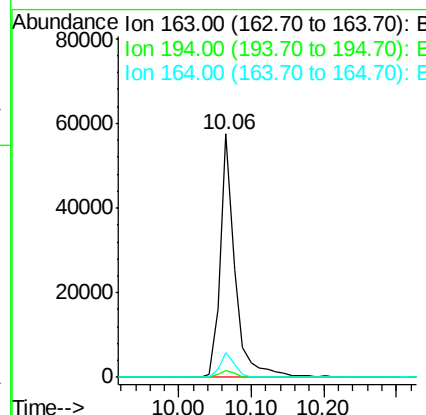
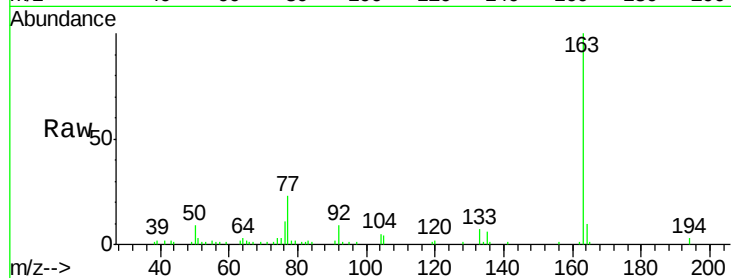
#49
Dimethylphthalate
Concen: 3.94 ng
RT: 10.06 min Scan# 733
Delta R.T. -0.05 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Instrument :
BNA_F
ClientSampleId :
S34-15.5DL

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	2.8		2.8	4.2#
164	10.3		8.6	13.0

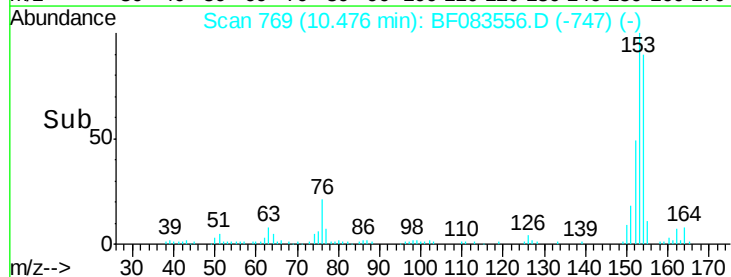
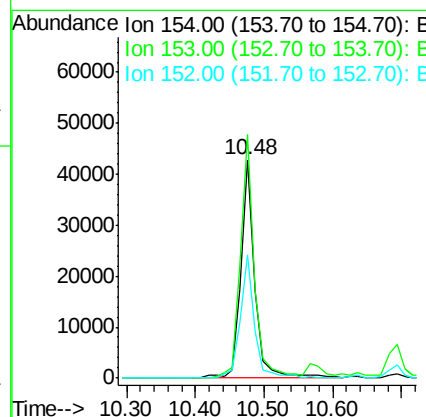
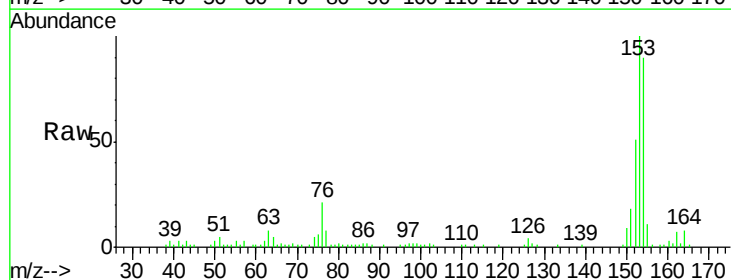
Manual Integrations
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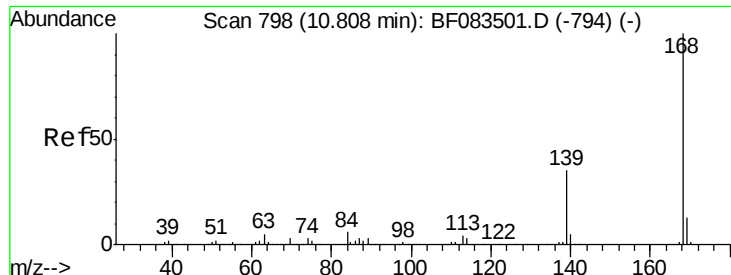
Mmdadoda
12/7/2015 6:33:48 PM



#51
Acenaphthene
Concen: 3.72 ng
RT: 10.48 min Scan# 769
Delta R.T. -0.05 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	111.7		91.4	137.0
152	56.5		43.4	65.2





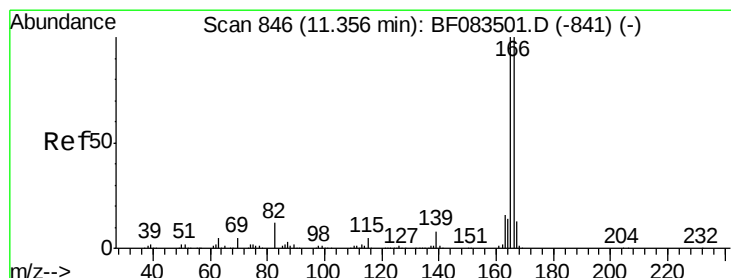
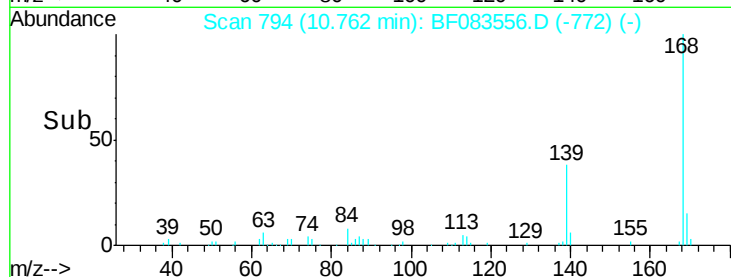
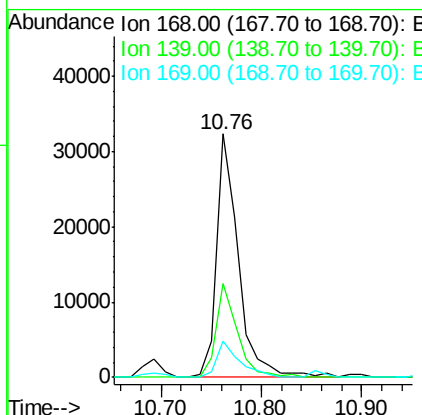
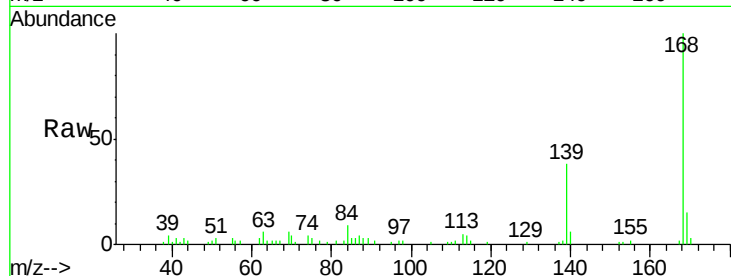
#54
Dibenzenofuran
Concen: 2.13 ng
RT: 10.76 min Scan# 794
Delta R.T. -0.05 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Instrument :
BNA_F
ClientSampleId :
S34-15.5DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.3	28.0	42.0
169	14.9	10.8	16.2

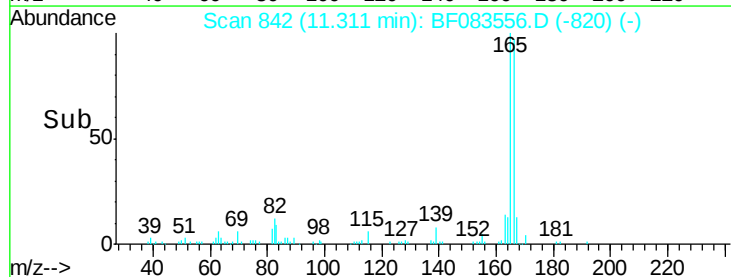
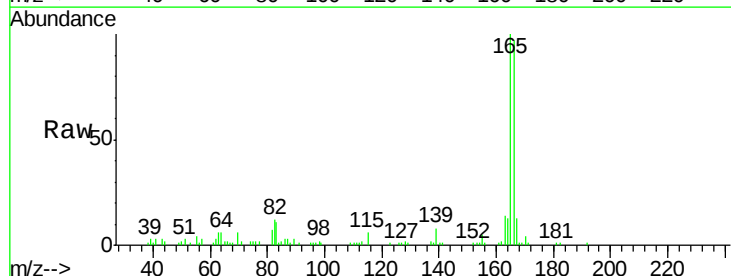
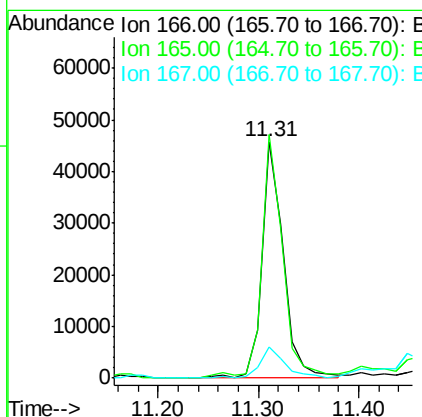
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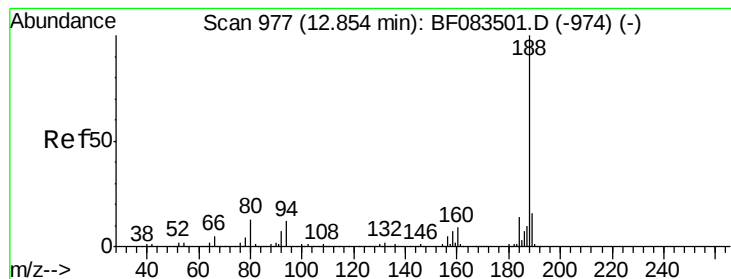
Mmdadoda
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#57
Fluorene
Concen: 3.39 ng
RT: 11.31 min Scan# 842
Delta R.T. -0.05 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.0	80.0	120.0
167	13.3	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.82 min Scan# 974

Delta R.T. -0.03 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

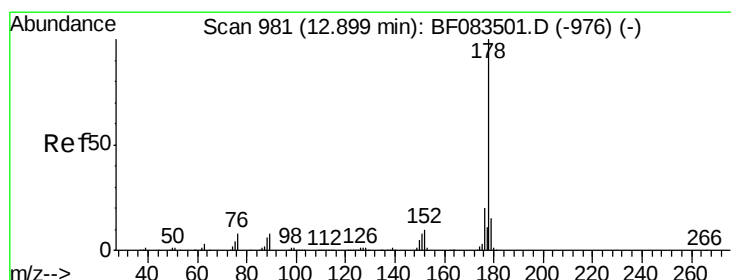
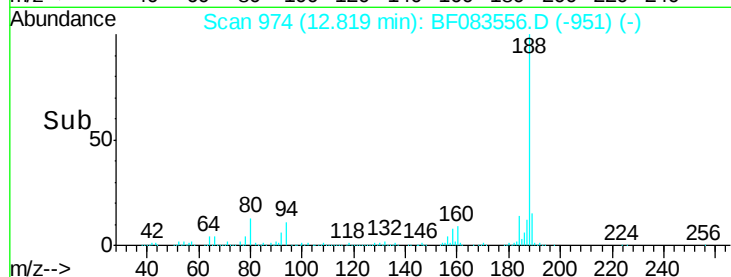
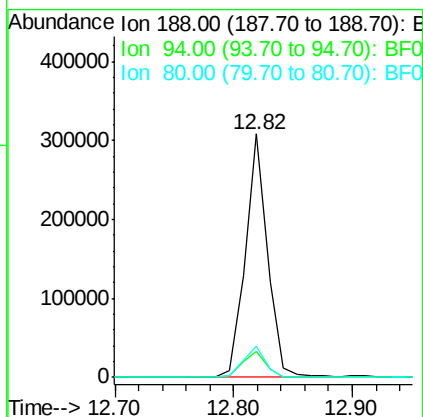
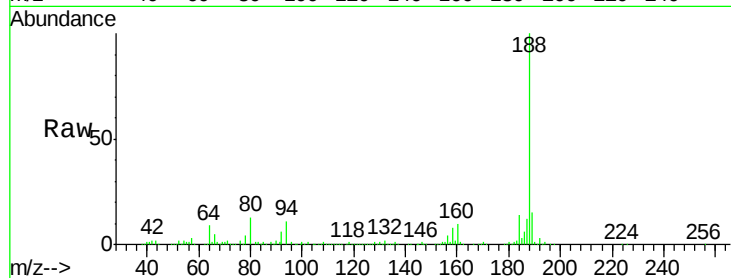
ClientSampleId :

S34-15.5DL

Tot Ion:	188	Resp:	403025
Ion Ratio	Lower	Upper	
188	100		
94	10.7	9.4	14.2
80	12.6	10.6	16.0

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#70

Phenanthrene

Concen: 28.01 ng

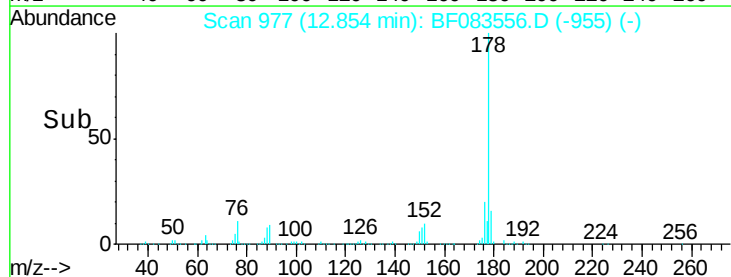
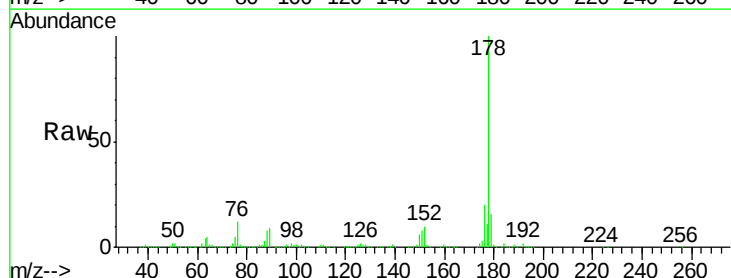
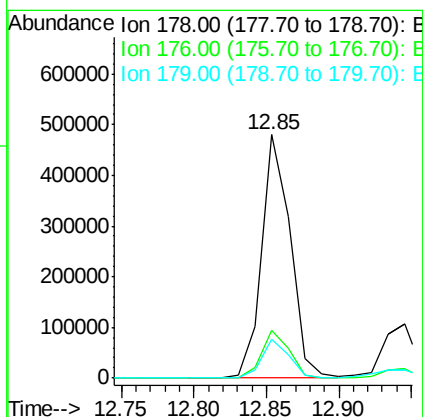
RT: 12.85 min Scan# 977

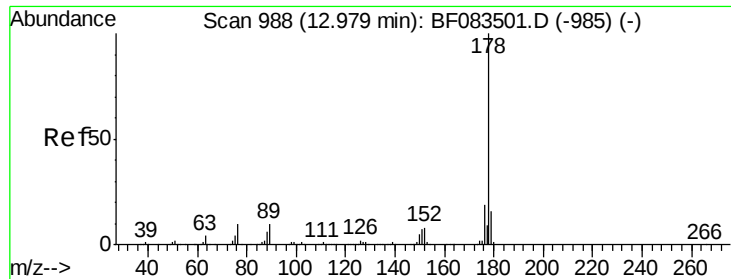
Delta R.T. -0.05 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Tgt Ion:	178	Resp:	657099
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.7	23.5
179	15.8	12.2	18.4





#71

Anthracene

Concen: 6.65 ng

RT: 12.95 min Scan# 985

Delta R.T. -0.03 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

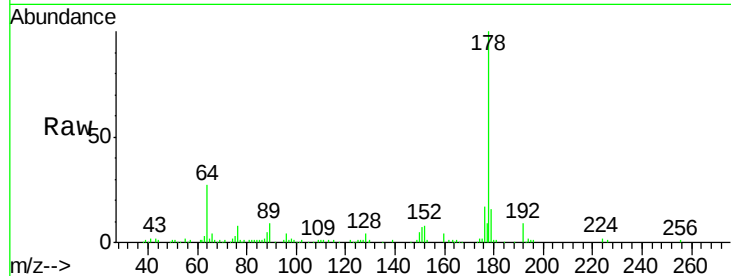
ClientSampleId :

S34-15.5DL

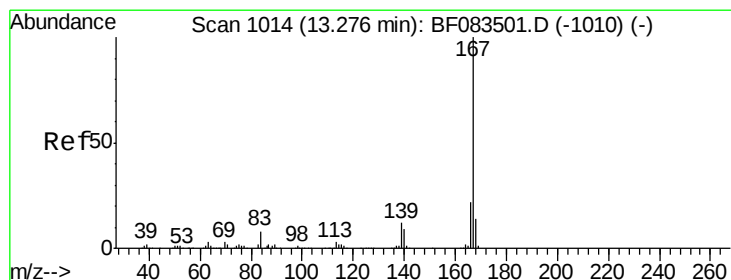
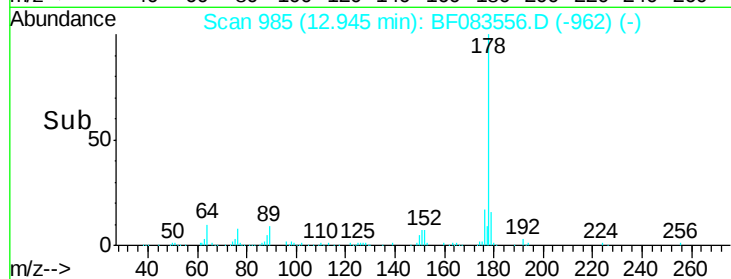
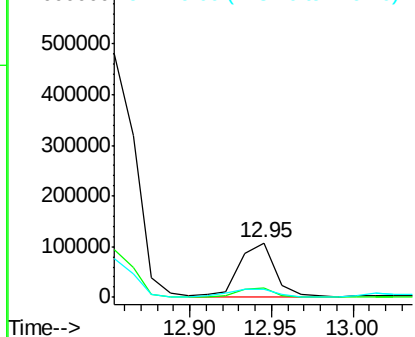
Tot Ion:	178	Resp:	159061
Ion Ratio	Lower	Upper	
178	100		
176	16.7	15.2	22.8
179	15.9	12.6	18.8

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.86 ng

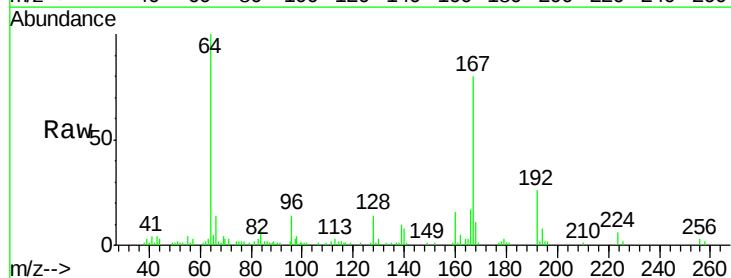
RT: 13.24 min Scan# 1011

Delta R.T. -0.03 min

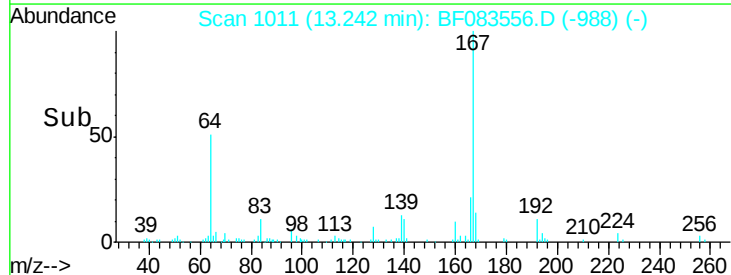
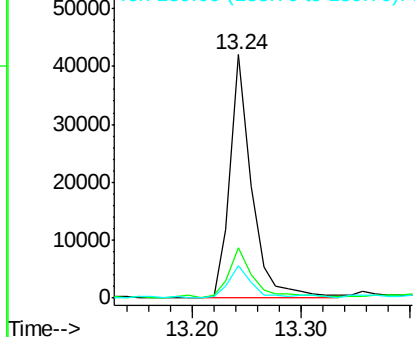
Lab File: BF083556.D

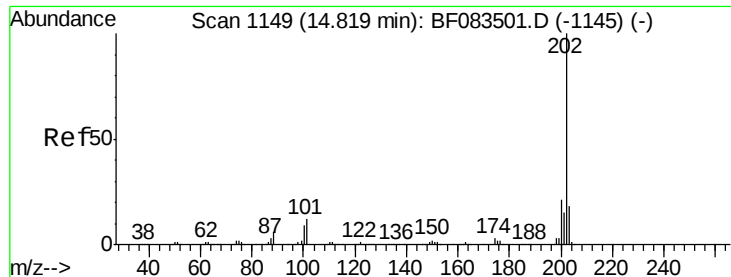
Acq: 7 Dec 2015 11:48

Tgt Ion:	167	Resp:	58674
Ion Ratio	Lower	Upper	
167	100		
166	20.9	17.2	25.8
139	13.1	9.3	13.9



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 30.88 ng

RT: 14.79 min Scan# 1146

Delta R.T. -0.03 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

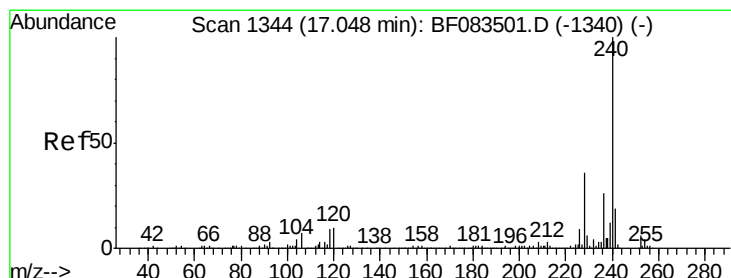
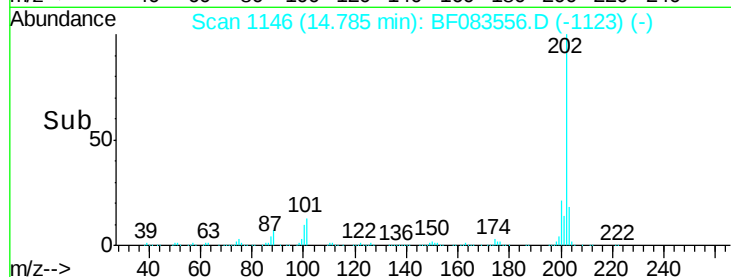
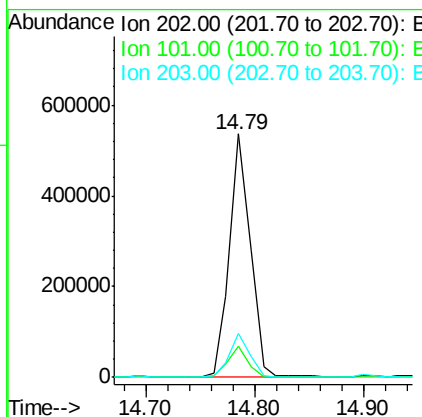
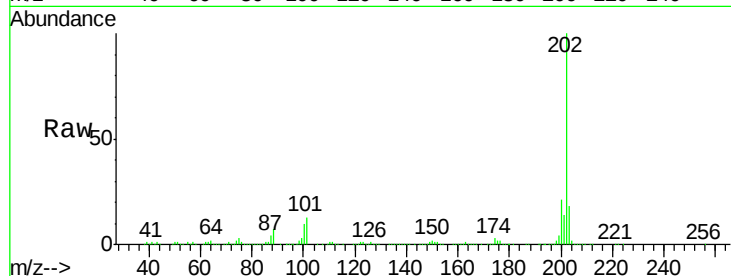
ClientSampleId :

S34-15.5DL

Tot Ion:	202	Resp:	717946
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	31.5
203	18.0	0.0	37.6

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#75

Chrysene-d12

Concen: 20.00 ng

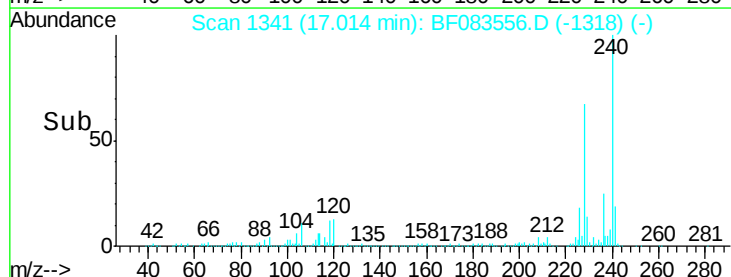
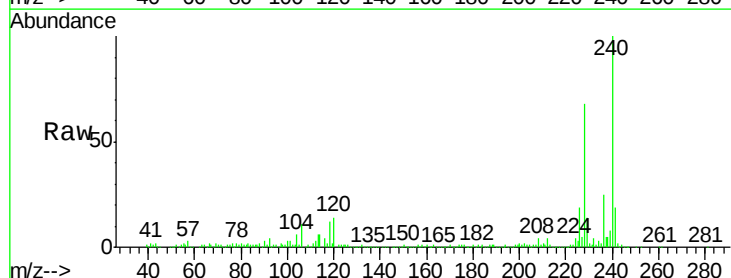
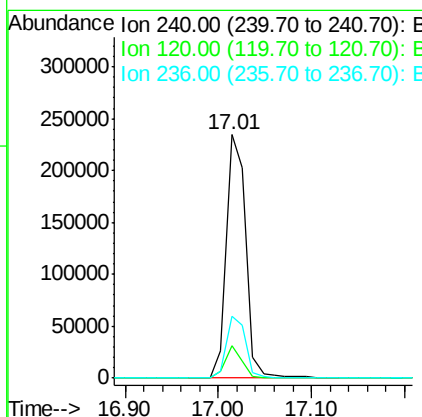
RT: 17.01 min Scan# 1341

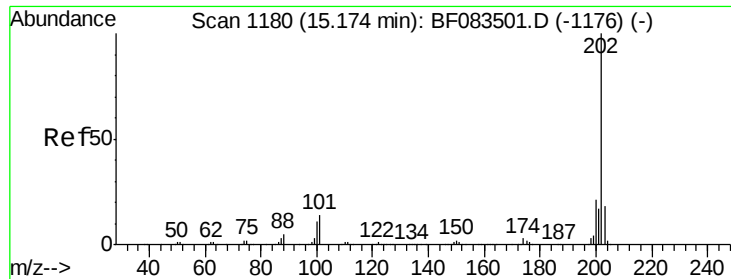
Delta R.T. -0.03 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Tgt Ion:	240	Resp:	340409
Ion Ratio	Lower	Upper	
240	100		
120	13.6	8.1	12.1#
236	25.2	20.8	31.2





#77

Pvrene

Concen: 24.24 ng

RT: 15.14 min Scan# 1177

Delta R.T. -0.03 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

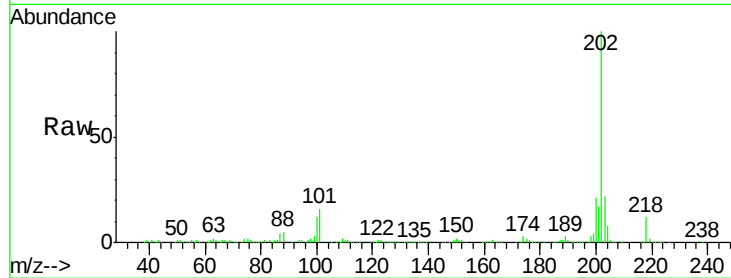
ClientSampleId :

S34-15.5DL

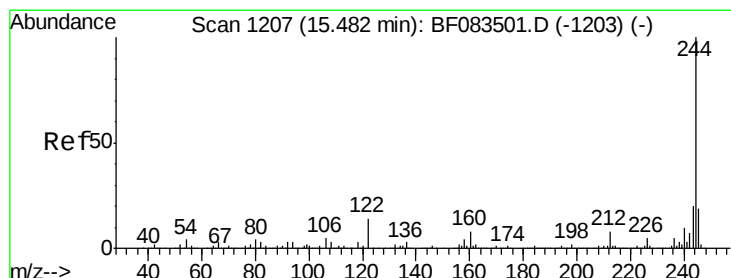
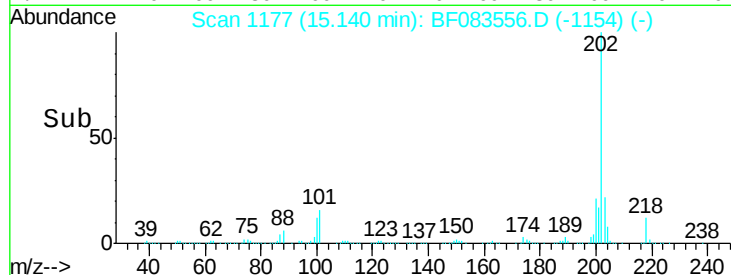
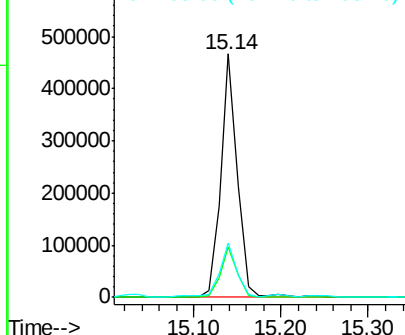
Tot Ion:	202	Resp:	617385
Ion Ratio	Lower	Upper	
202	100		
200	20.6	16.7	25.1
203	22.3	14.3	21.5#

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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



#78

Terphenyl-d14

Concen: 16.02 ng

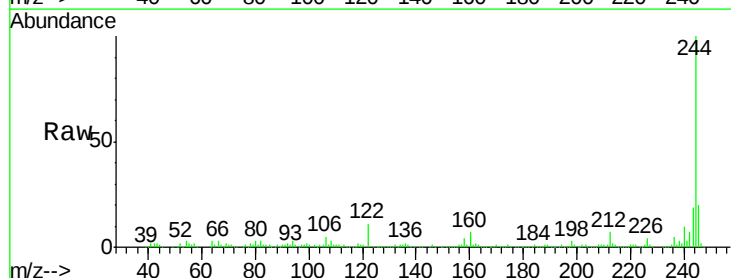
RT: 15.45 min Scan# 1204

Delta R.T. -0.03 min

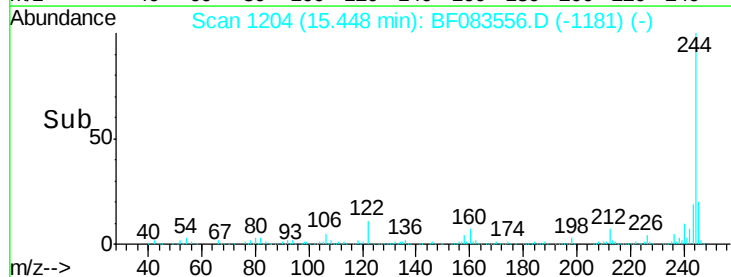
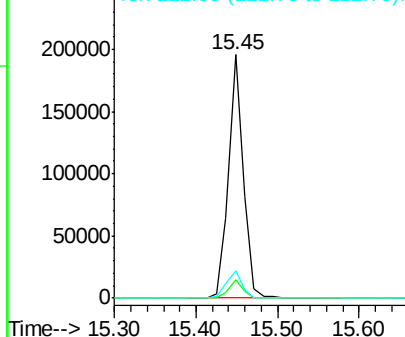
Lab File: BF083556.D

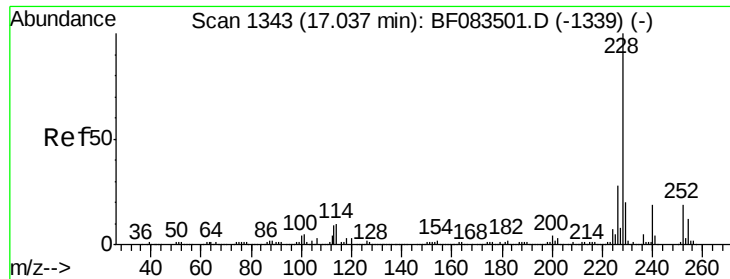
Acq: 7 Dec 2015 11:48

Tgt Ion:	244	Resp:	245132
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.1	9.1
122	11.1	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





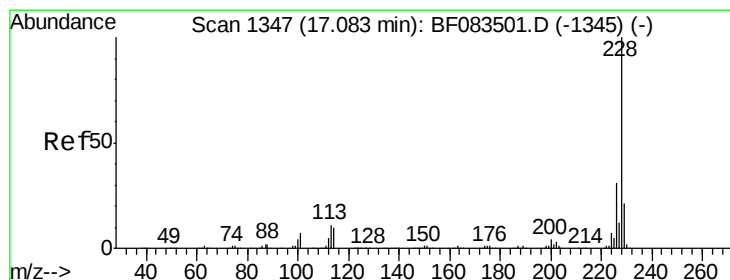
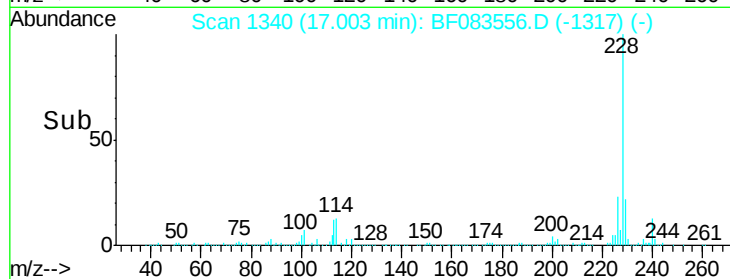
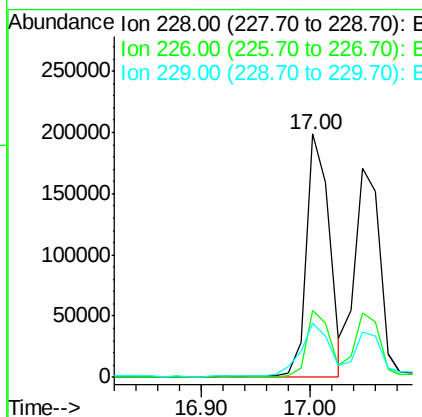
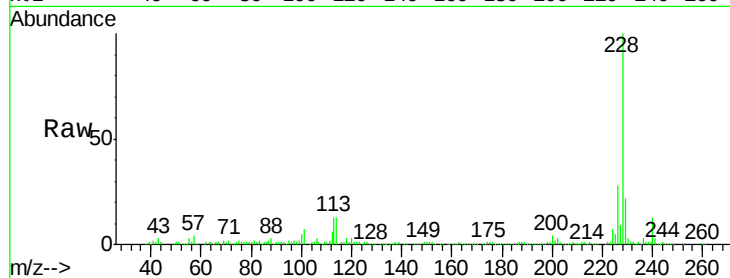
#80
Benzo(a)anthracene
Concen: 14.56 ng
RT: 17.00 min Scan# 1340
Delta R.T. -0.03 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Instrument :
BNA_F
ClientSampleId :
S34-15.5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.3	33.5
229	22.3	15.7	23.5

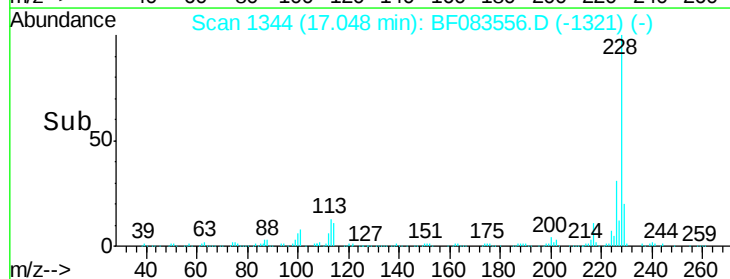
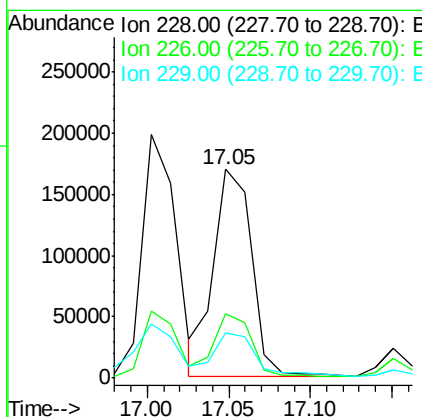
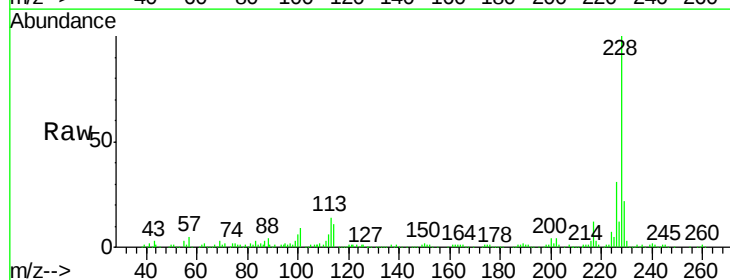
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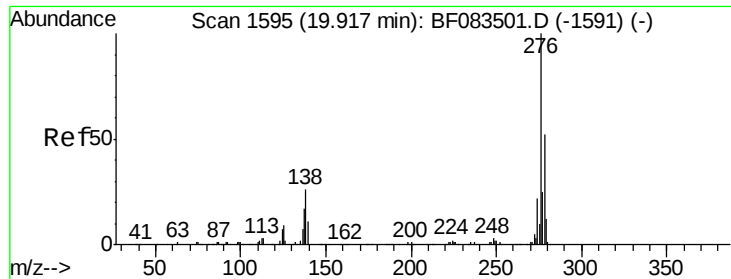
Mmdadoda
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#82
Chrysene
Concen: 13.84 ng
RT: 17.05 min Scan# 1344
Delta R.T. -0.03 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.7	37.1
229	21.5	16.3	24.5





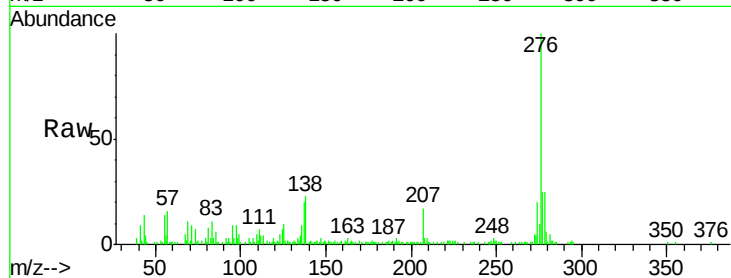
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.96 ng
RT: 19.89 min Scan# 1593
Delta R.T. -0.02 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Instrument :
BNA_F
ClientSampleId :
S34-15.5DL

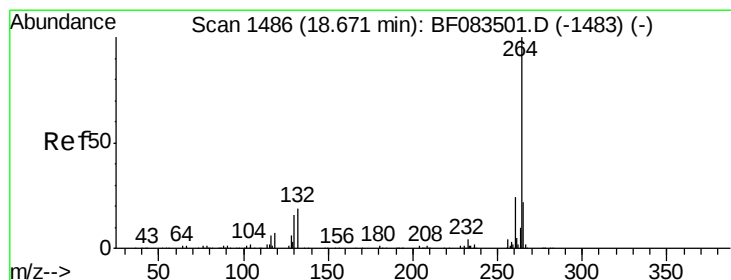
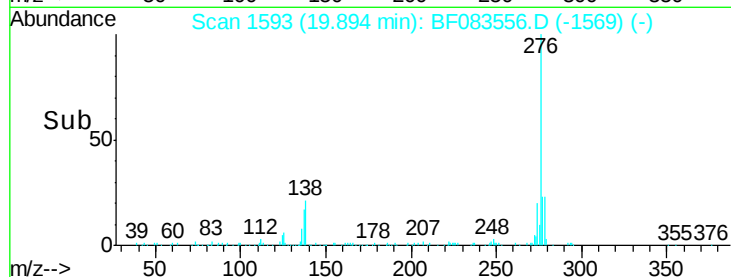
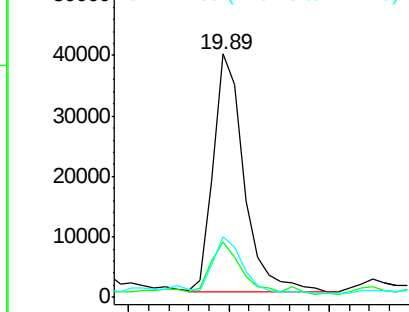
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.9	0.0	0.0#
277	27.1	0.0	0.0#

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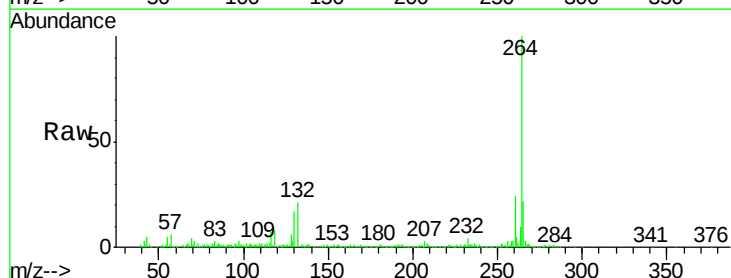


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

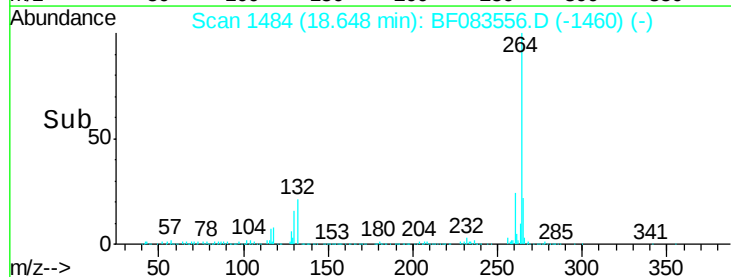
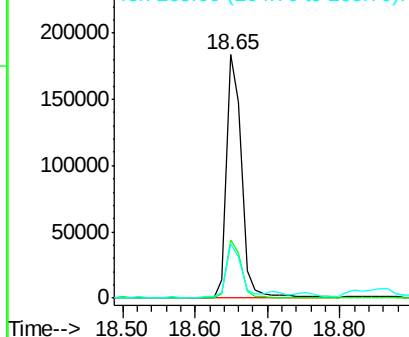


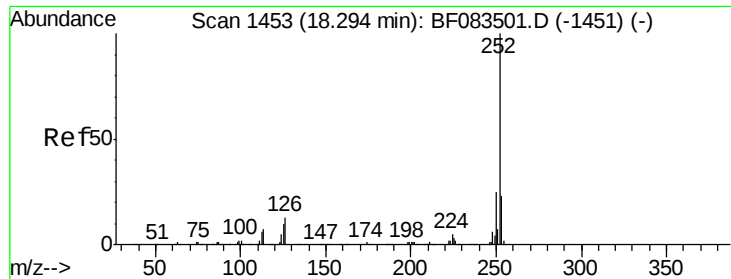
#86
Perylene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 1484
Delta R.T. -0.02 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.0
265	22.3	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: 18.50 ng m

RT: 18.27 min Scan# 1451

Delta R.T. -0.02 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Instrument :

BNA_F

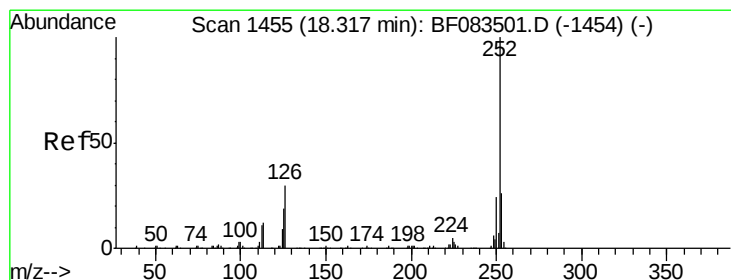
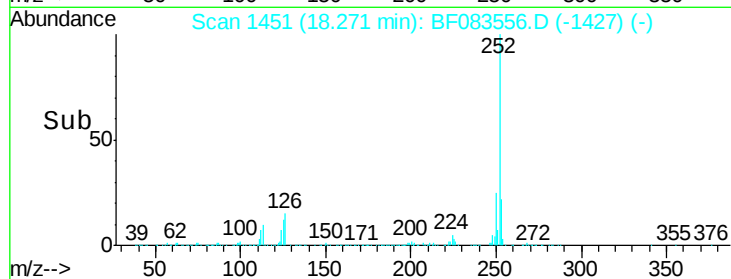
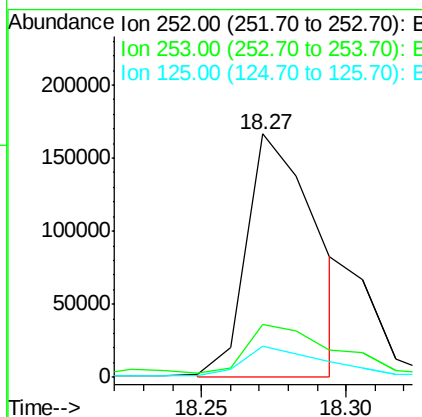
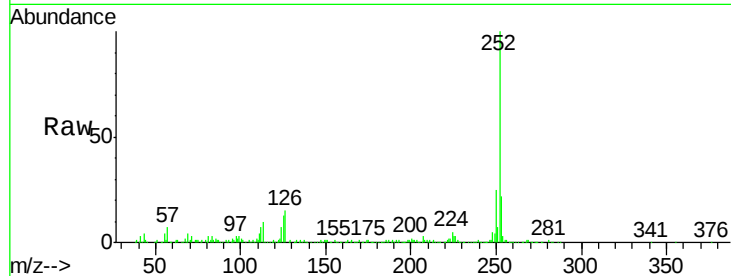
ClientSampleId :

S34-15.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.2	27.4
125	13.0	8.2	12.4

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#88

Benzo(k)fluoranthene

Concen: 3.95 ng m

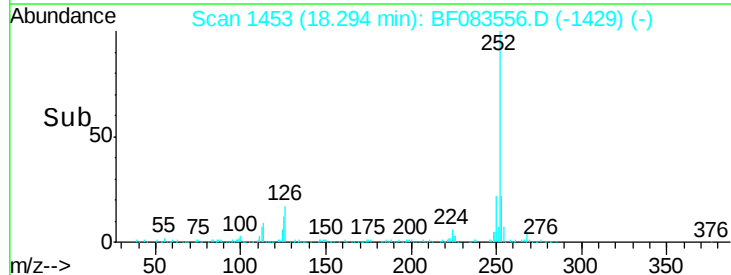
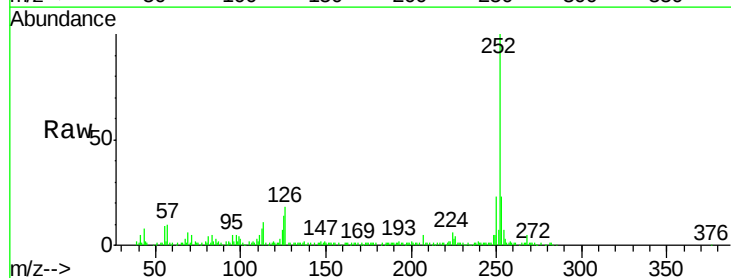
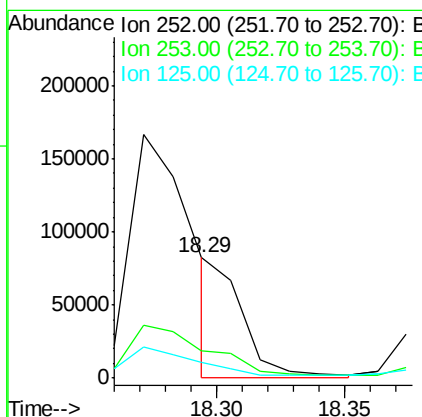
RT: 18.29 min Scan# 1453

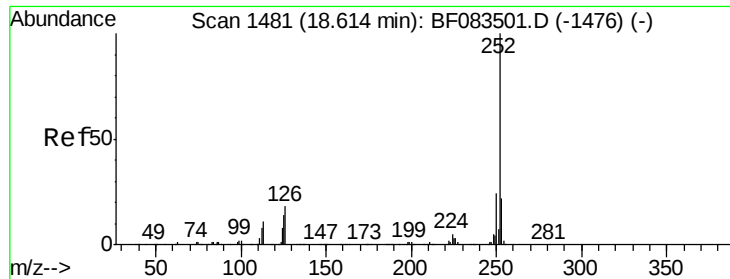
Delta R.T. -0.02 min

Lab File: BF083556.D

Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.6	27.8
125	13.6	11.5	17.3





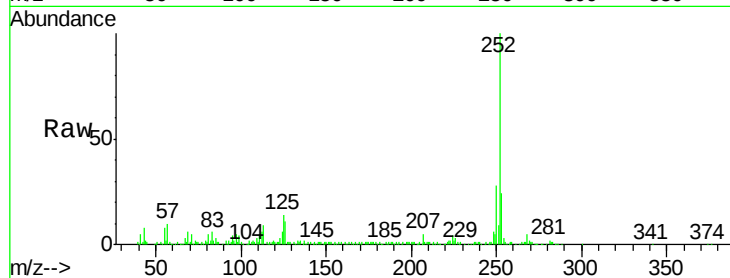
#89
Benzo(a)pyrene
Concen: 8.09 ng
RT: 18.55 min Scan# 1475
Delta R.T. -0.07 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Instrument :
BNA_F
ClientSampleId :
S34-15.5DL

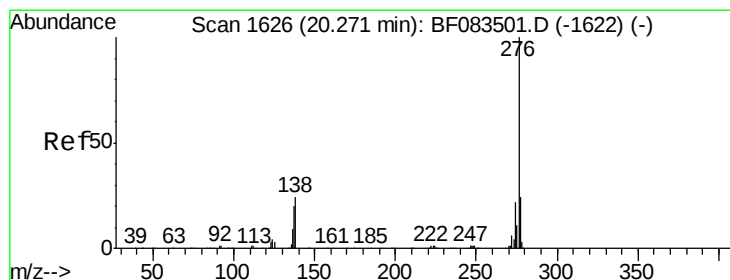
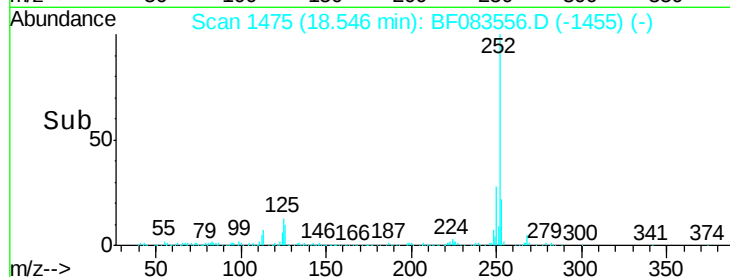
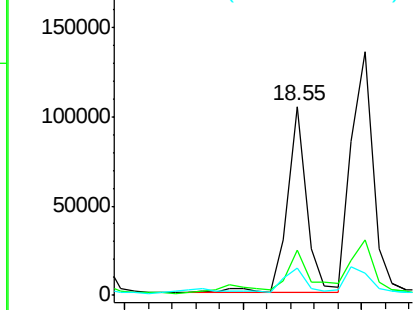
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	14.2	11.0	16.6

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12/7/2015 6:33:48 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



#91
Benzo(g,h,i)perylene
Concen: 5.69 ng
RT: 20.26 min Scan# 1625
Delta R.T. -0.01 min
Lab File: BF083556.D
Acq: 7 Dec 2015 11:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.2	28.8
138	22.9	19.5	29.3

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

