

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020116\
 Data File : BF084744.D
 Acq On : 2 Feb 2016 7:28
 Operator : SJ/IZ
 Sample : H1272-07DL 10X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B013(16-18)DL

Manual Integrations
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Quant Time: Feb 02 08:05:34 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 01 14:55:11 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	161098	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	639816	20.00	ng	-0.02
38) Acenaphthene-d10	9.74	164	272074	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	476664	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	319583	20.00	ng	-0.01
86) Perylene-d12	15.24	264	341049	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	122406	11.84	ng	-0.01
7) Phenol-d6	6.36	99	144602	11.28	ng	-0.01
23) Nitrobenzene-d5	7.28	82	93269	8.21	ng	-0.02
41) 2,4,6-Tribromophenol	10.53	330	27884	9.83	ng	-0.02
44) 2-Fluorobiphenyl	9.07	172	152972	6.31	ng	-0.02
78) Terphenyl-d14	12.81	244	105649	7.49	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.02	128	276211	8.61	ng	98
37) 2-Methylnaphthalene	8.72	142	127685	6.36	ng	94
51) Acenaphthene	9.78	154	165609	9.37	ng	98
54) Dibenzofuran	9.95	168	137219	6.35	ng	94
57) Fluorene	10.29	166	205989	11.42	ng	99
70) Phenanthrene	11.25	178	1376678	52.07	ng	97
71) Anthracene	11.31	178	424429	15.93	ng	97
72) Carbazole	11.46	167	138610	5.97	ng	98
74) Fluoranthene	12.44	202	1098289	41.04	ng	95
77) Pyrene	12.67	202	886588	36.23	ng	99
80) Benzo(a)anthracene	13.85	228	439299	22.15	ng	99
82) Chrysene	13.88	228	310538	16.14	ng	97
85) Indeno(1,2,3-cd)pyrene	16.55	276	190049	12.55	ng	94
87) Benzo(b)fluoranthene	14.87	252	430152m	18.77	ng	
88) Benzo(k)fluoranthene	14.89	252	117107m	6.18	ng	
89) Benzo(a)pyrene	15.19	252	301490	15.44	ng	# 94
90) Dibenzo(a,h)anthracene	16.56	278	55139	3.35	ng	93
91) Benzo(g,h,i)perylene	16.95	276	188987	11.41	ng	97

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

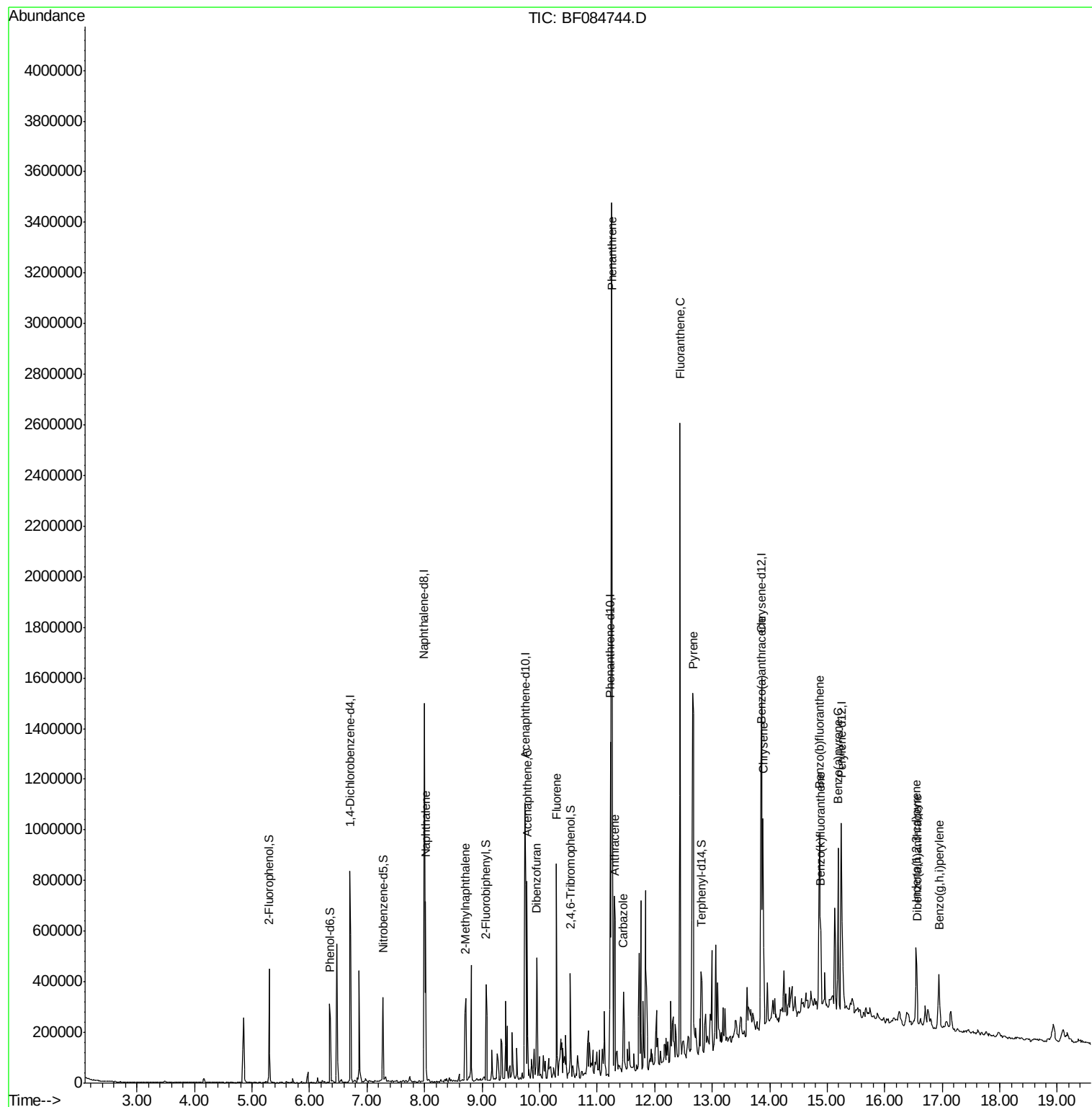
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020116\
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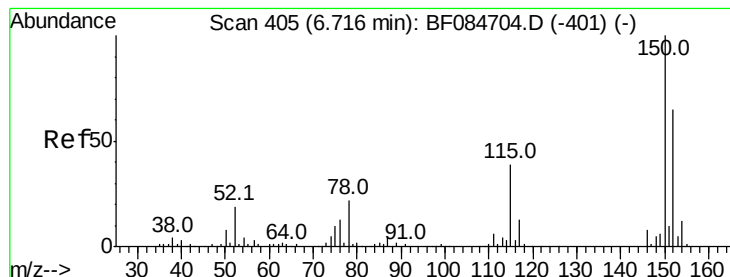
Instrument :
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SUP-B013(16-18)DL

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

ClientSampleId :

SUP-B013(16-18)DL

Tot Ion:152 Resp: 161098

Ion Ratio Lower Upper

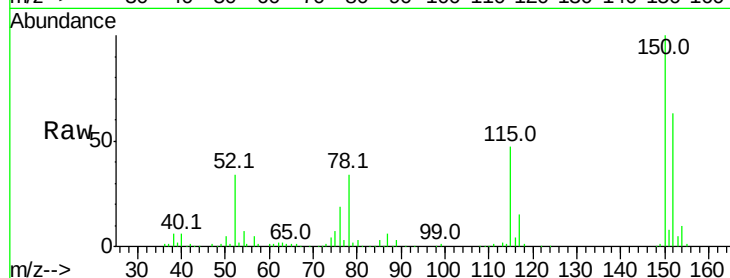
152 100

150 159.7 123.0 184.4

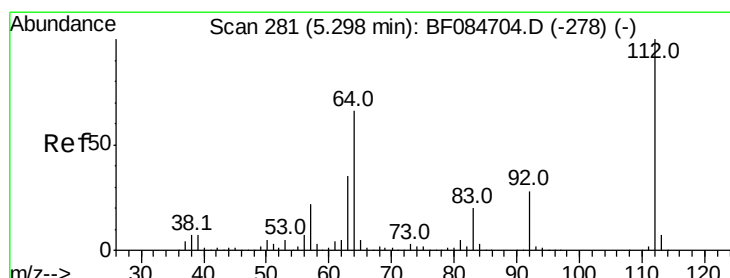
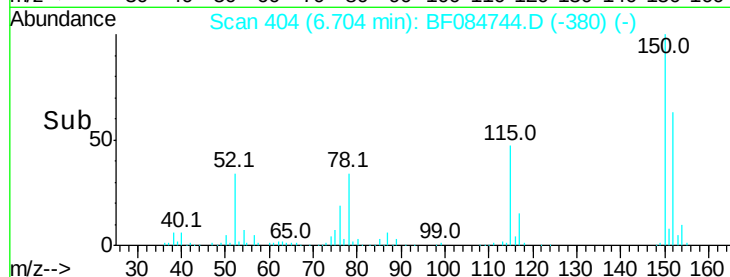
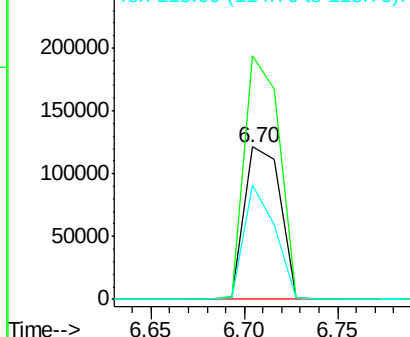
115 74.6 51.4 77.2

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



#5

2-Fluorophenol

Concen: 11.84 ng

RT: 5.30 min Scan# 281

Delta R.T. -0.01 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

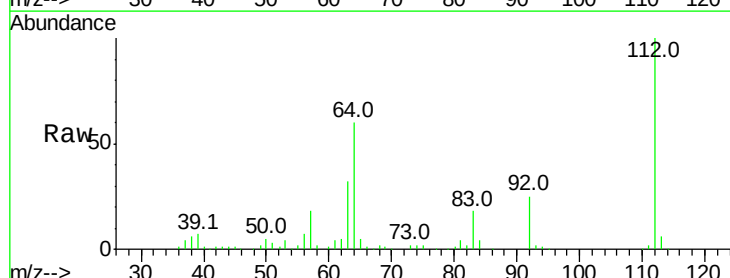
Tgt Ion:112 Resp: 122406

Ion Ratio Lower Upper

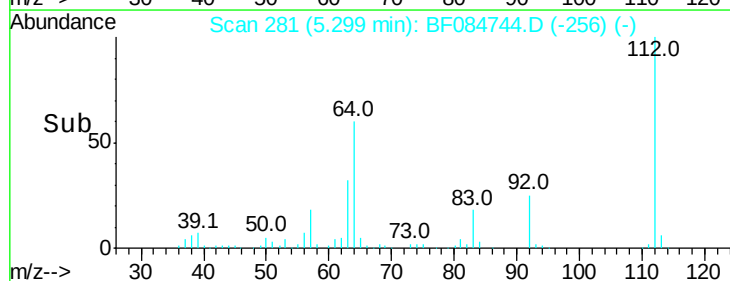
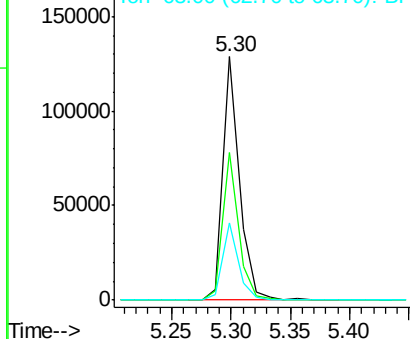
112 100

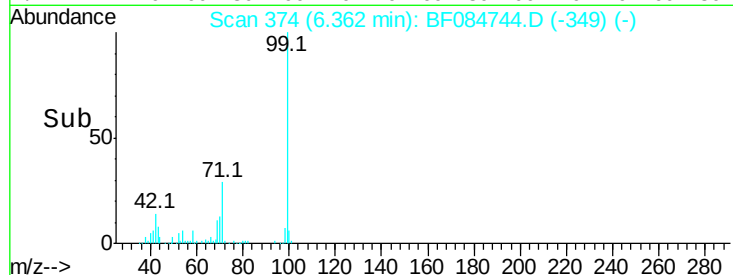
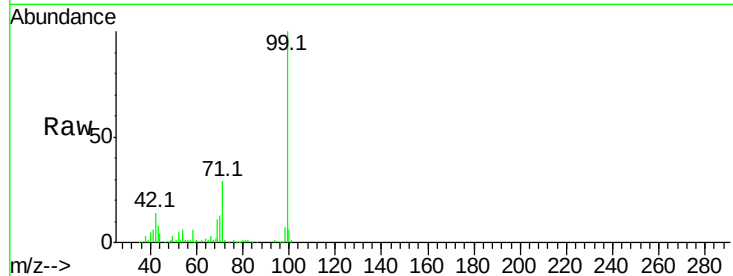
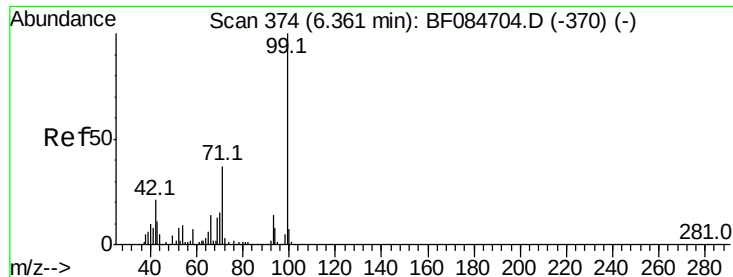
64 60.5 36.6 55.0#

63 31.7 19.4 29.0#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 11.28 ng

RT: 6.36 min Scan# 374

Delta R.T. -0.01 min

Lab File: BF084744.D

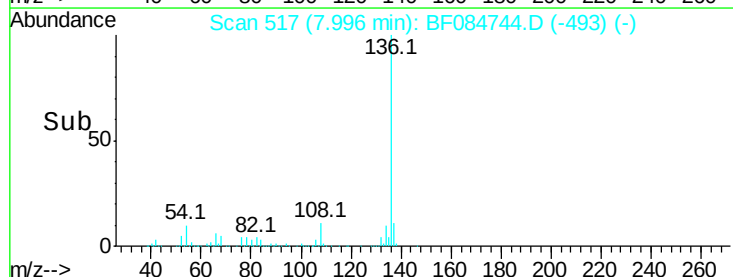
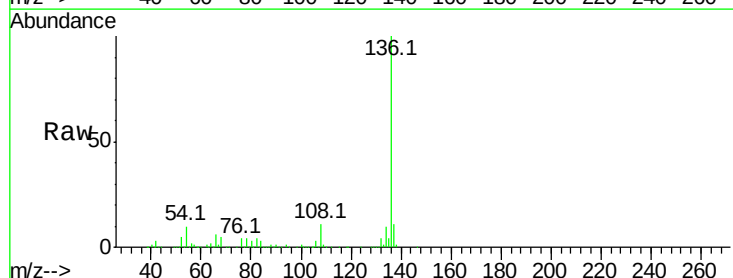
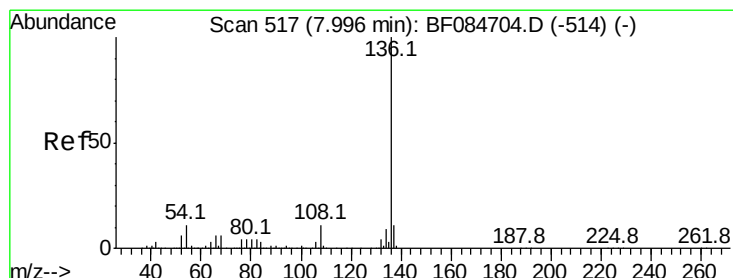
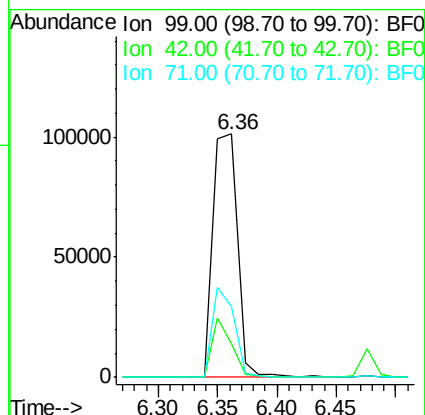
Acq: 2 Feb 2016 7:28

Tot Ion	Ratio	Resp	Lower	Upper
99	100	144602		
42	13.9	12.8	19.2	
71	29.1	30.9	46.3	

Instrument :
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ClientSampleId :
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#21

Naphthalene-d8

Concen: 20.00 ng

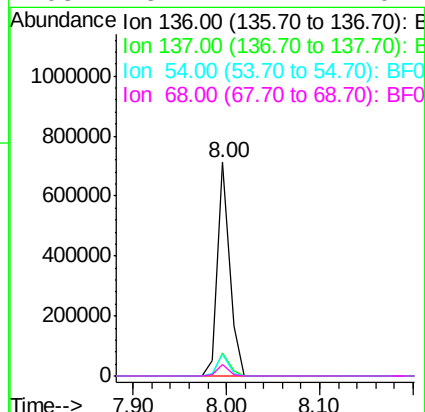
RT: 8.00 min Scan# 517

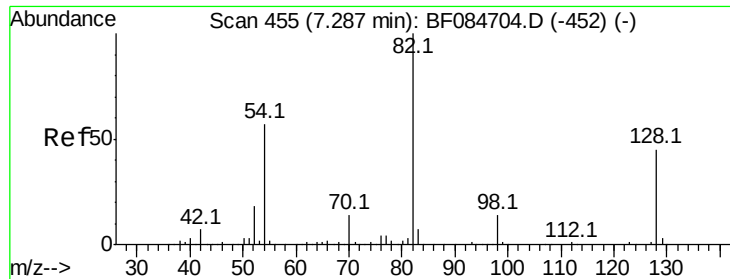
Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	639816		
137	11.1	8.7	13.1	
54	10.0	5.8	8.8	
68	5.4	4.2	6.2	





#23

Nitrobenzene-d5

Concen: 8.21 ng

RT: 7.28 min Scan# 454

Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

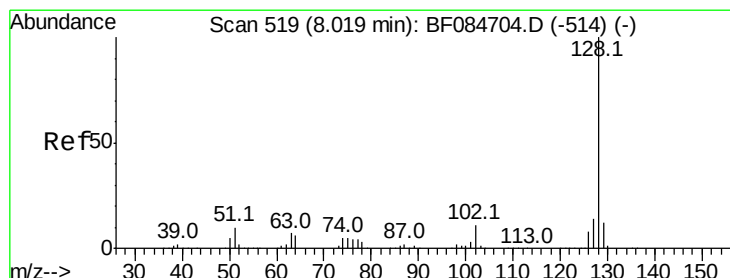
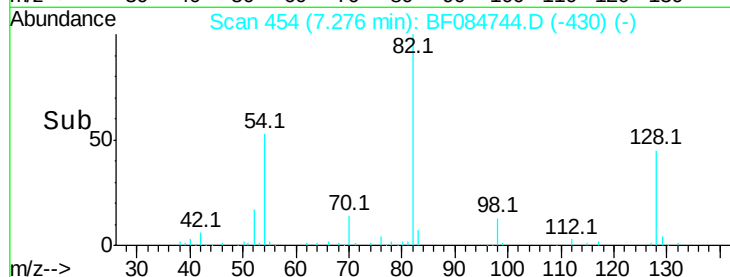
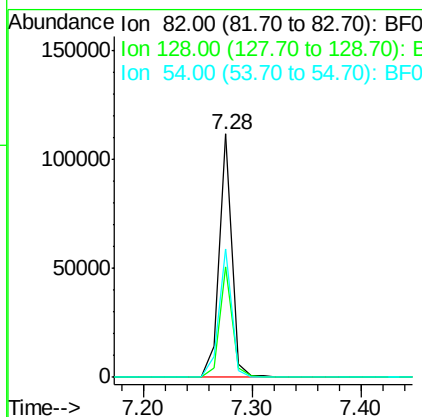
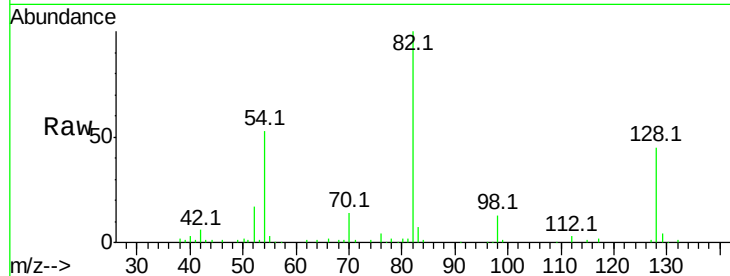
ClientSampleId :

SUP-B013(16-18)DL

Tot Ion	82	Resp	93269
Ion Ratio	Lower	Upper	
82	100		
128	45.4	34.6	51.8
54	52.9	38.4	57.6

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#31

Naphthalene

Concen: 8.61 ng

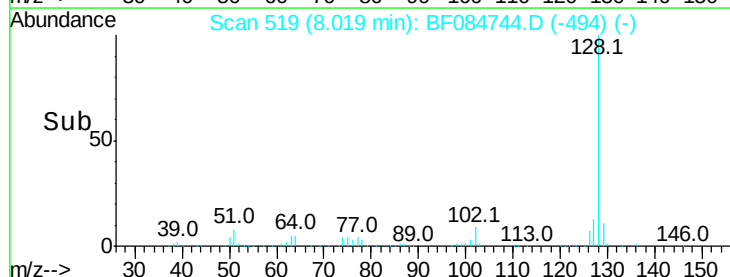
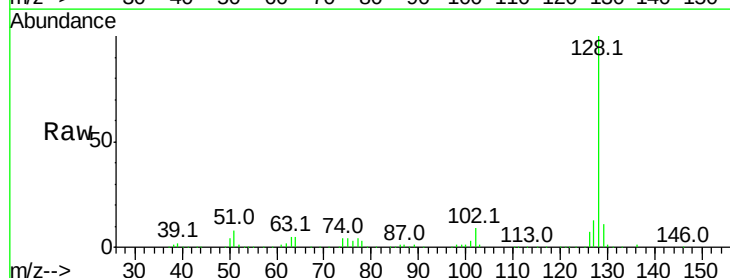
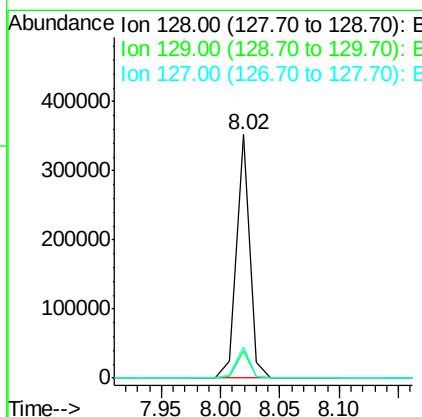
RT: 8.02 min Scan# 519

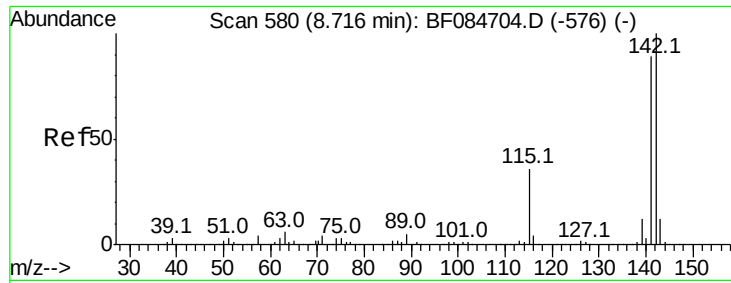
Delta R.T. -0.01 min

Lab File: BF084744.D

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Tgt Ion	128	Resp	276211
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.1	13.7
127	12.8	11.1	16.7





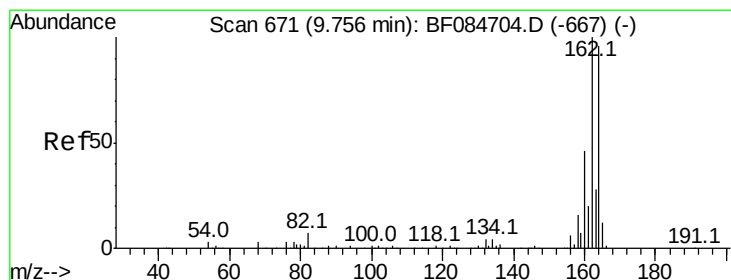
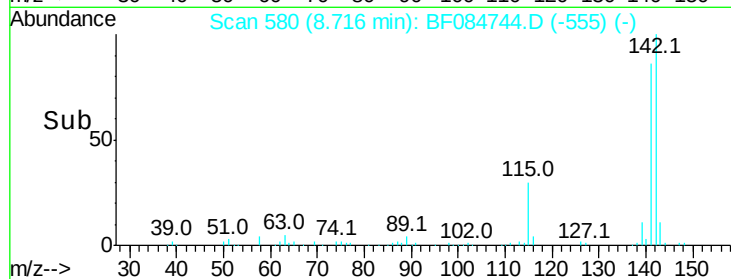
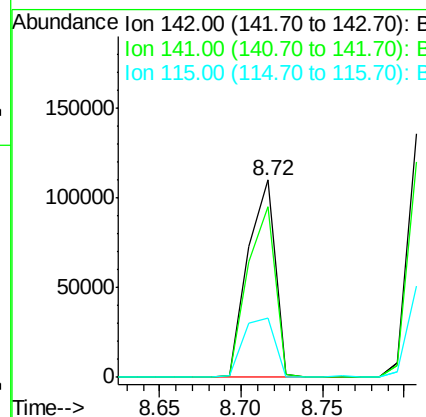
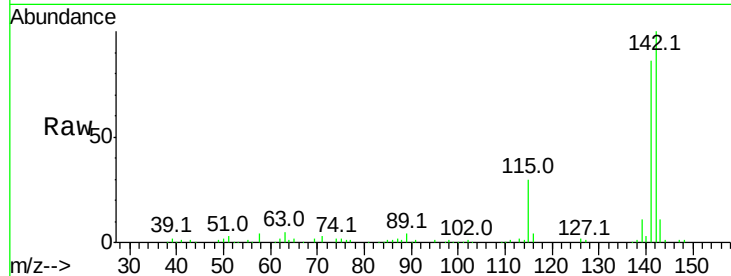
#37
2-Methylnaphthalene
Concen: 6.36 ng
RT: 8.72 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	127685		
141	86.2		72.4	108.6
115	30.2		27.9	41.9

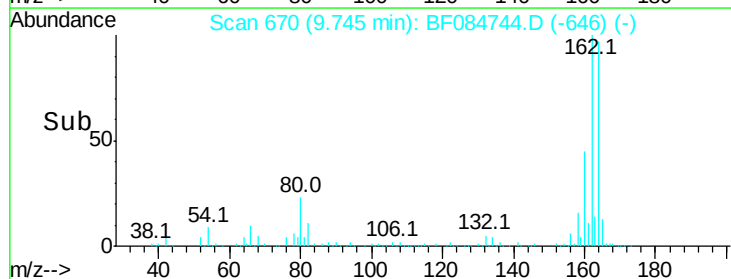
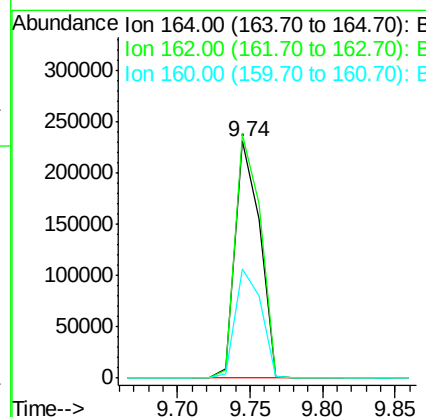
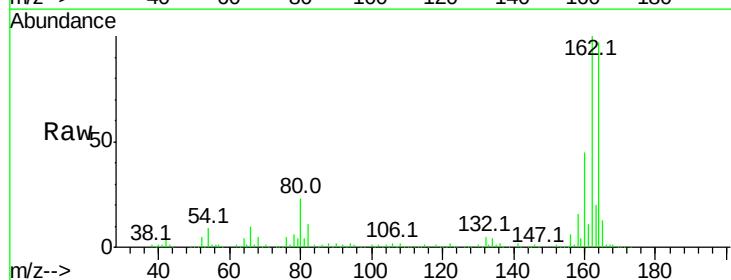
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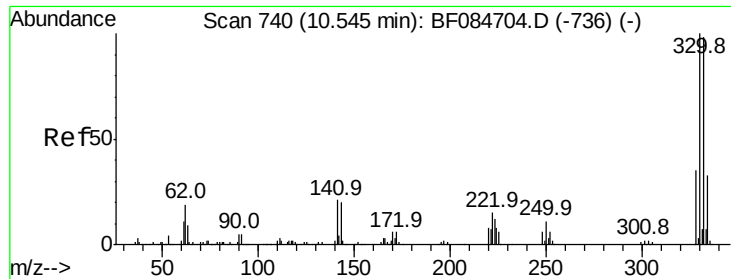
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.74 min Scan# 670
Delta R.T. -0.02 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	272074		
162	102.8		85.1	127.7
160	45.9		37.5	56.3





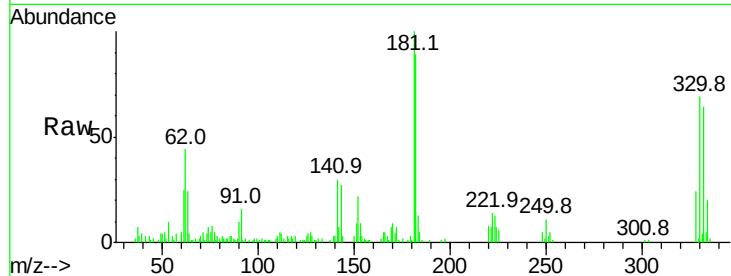
#41
 2,4,6-Tribromophenol
 Concen: 9.83 ng
 RT: 10.53 min Scan# 739
 Delta R.T. -0.02 min
 Lab File: BF084744.D
 Acq: 2 Feb 2016 7:28

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B013(16-18)DL

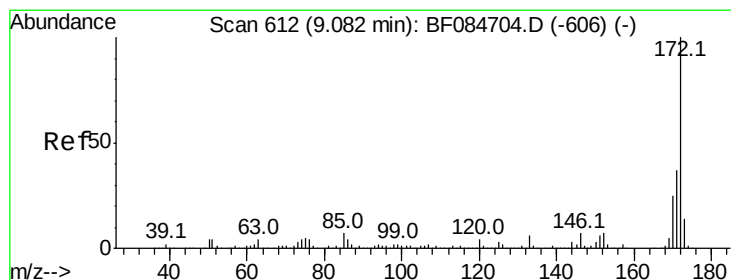
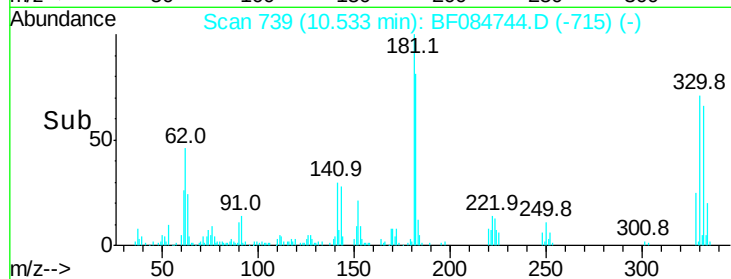
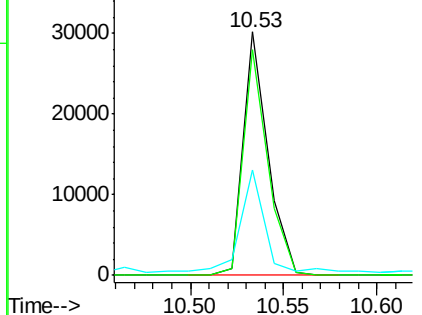
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	92.5	76.6	114.8	
141	43.3	27.8	41.6#	

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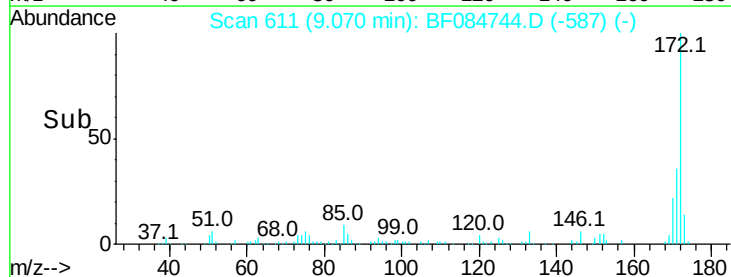
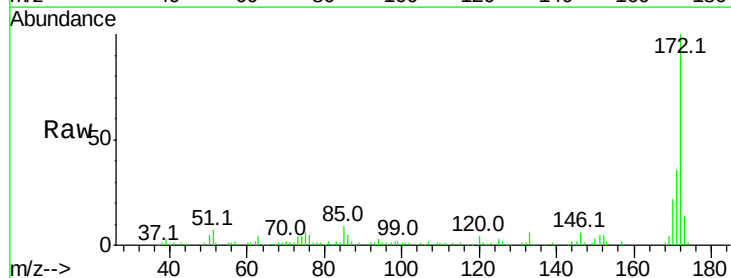
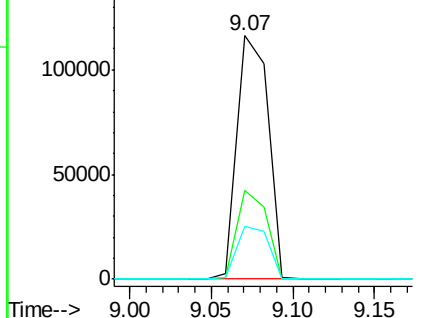
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

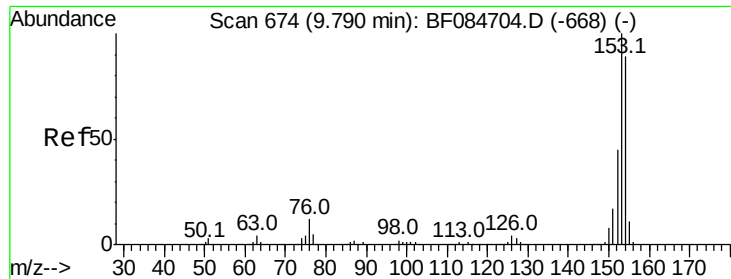


#44
 2-Fluorobiphenyl
 Concen: 6.31 ng
 RT: 9.07 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: BF084744.D
 Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.4	28.9	43.3	
170	21.8	18.6	27.8	

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 9.37 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

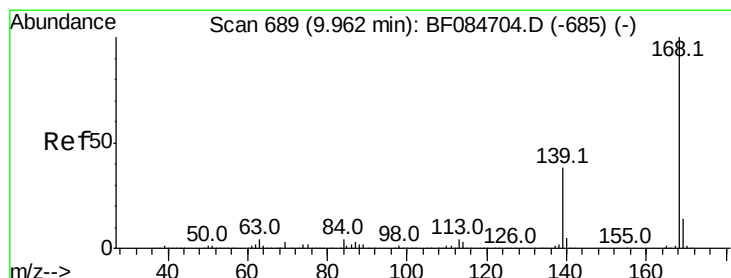
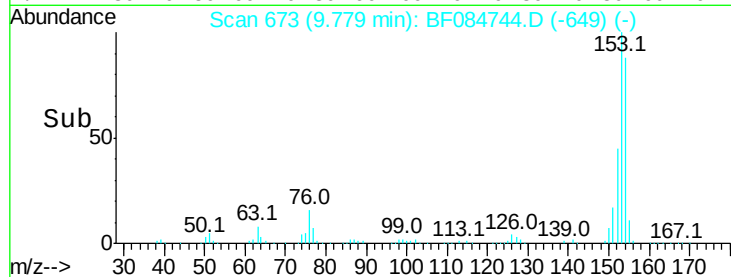
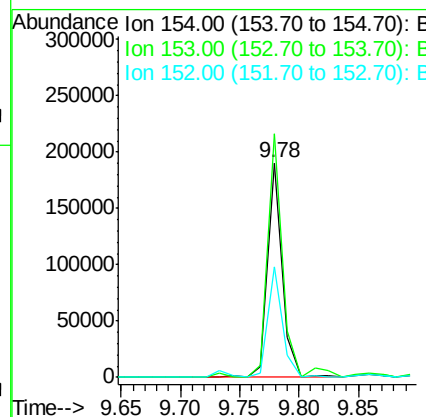
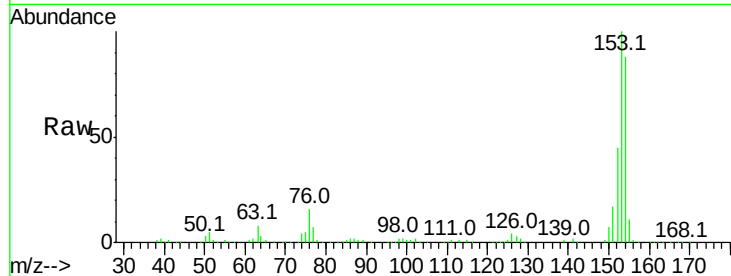
ClientSampleId :

SUP-B013(16-18)DL

Tot Ion:	154	Resp:	165609
Ion Ratio	Lower	Upper	
154	100		
153	113.5	91.5	137.3
152	51.3	43.0	64.6

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#54

Dibenzofuran

Concen: 6.35 ng

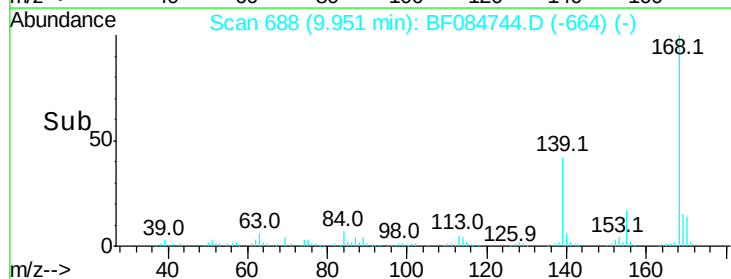
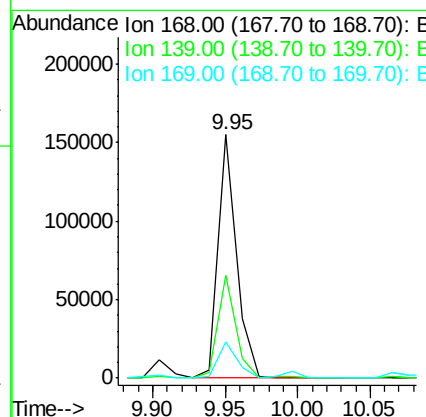
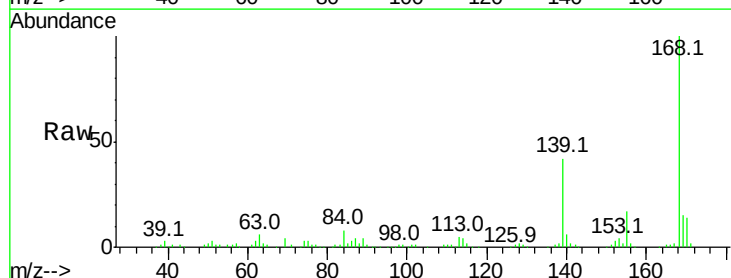
RT: 9.95 min Scan# 688

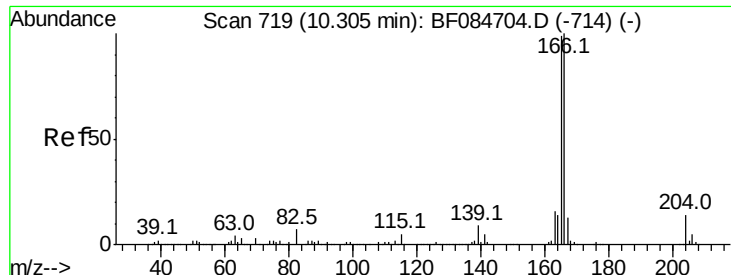
Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Tgt Ion:	168	Resp:	137219
Ion Ratio	Lower	Upper	
168	100		
139	42.1	30.5	45.7
169	14.9	10.4	15.6





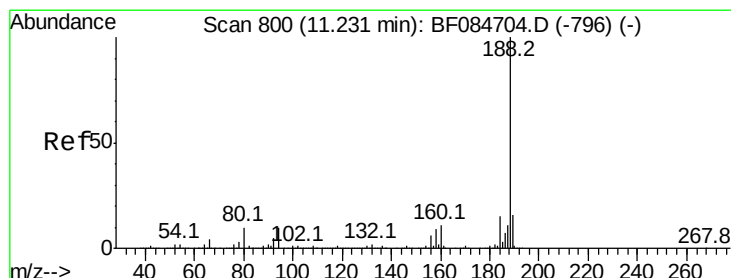
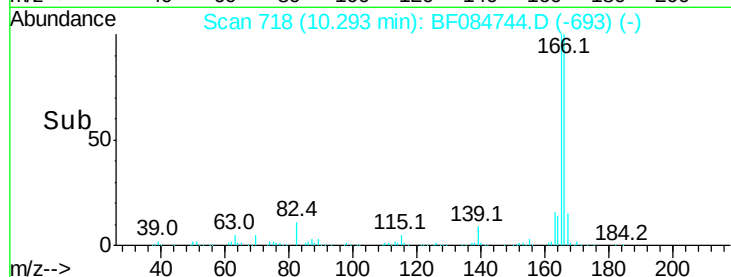
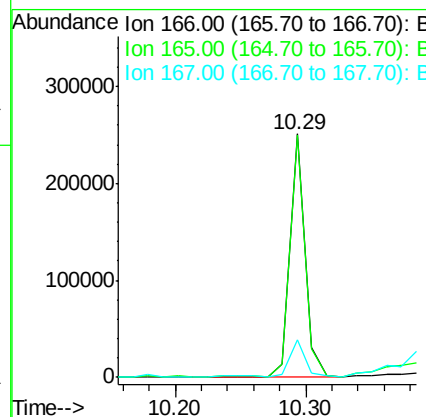
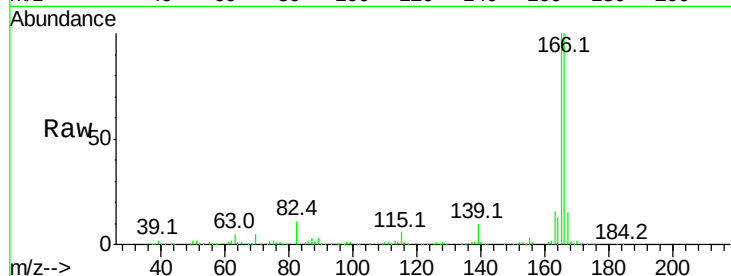
#57
Fluorene
 Concen: 11.42 ng
 RT: 10.29 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: BF084744.D
 Acq: 2 Feb 2016 7:28

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B013(16-18)DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	205989		
165	99.6		79.1	118.7
167	15.2		10.4	15.6

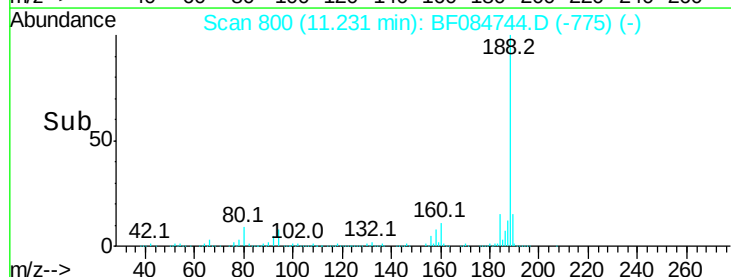
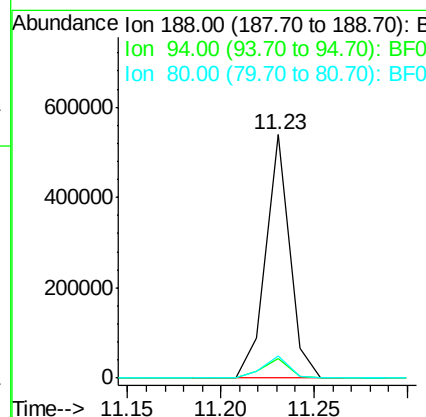
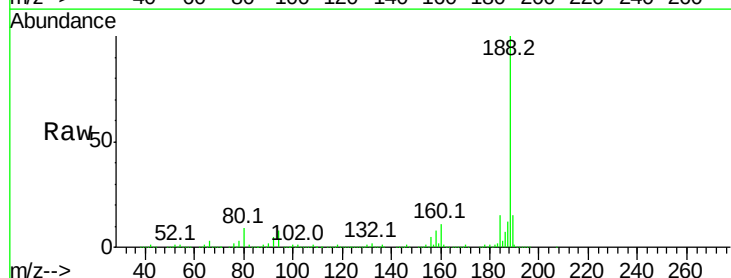
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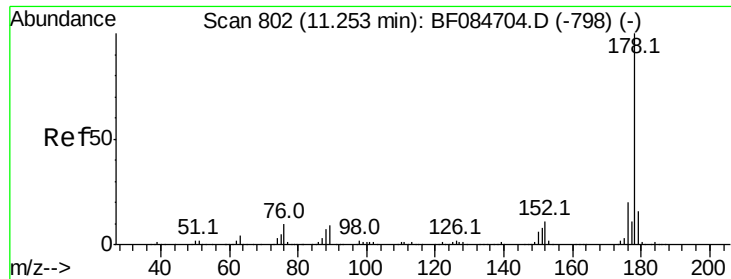
mohammad
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.23 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF084744.D
 Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	476664		
94	8.2		9.0	13.4#
80	9.0		9.6	14.4#





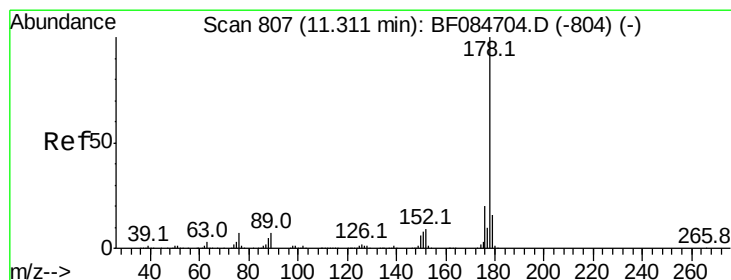
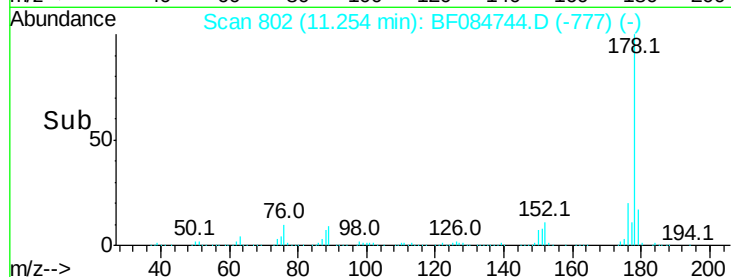
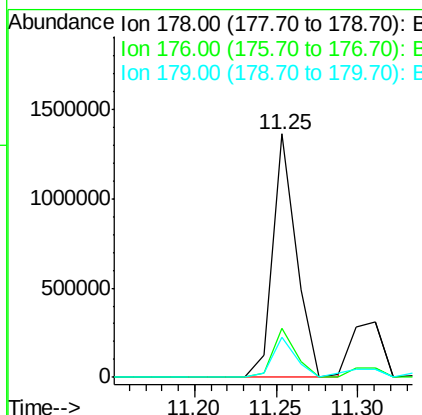
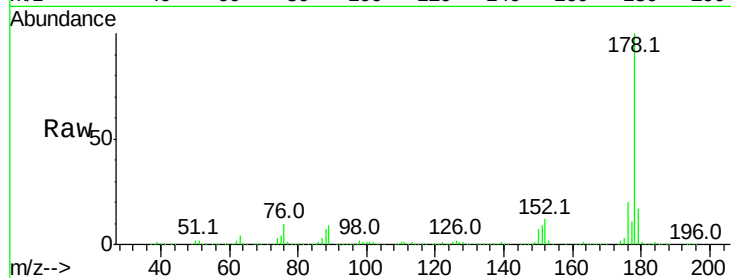
#70
Phenanthrene
Concen: 52.07 ng
RT: 11.25 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.3	22.9
179	16.7	12.0	18.0

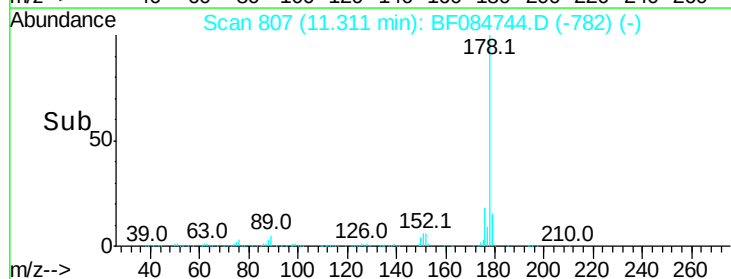
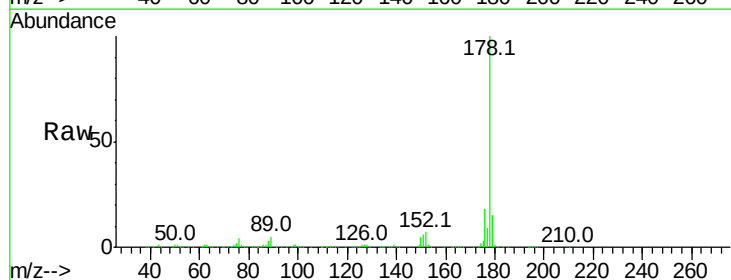
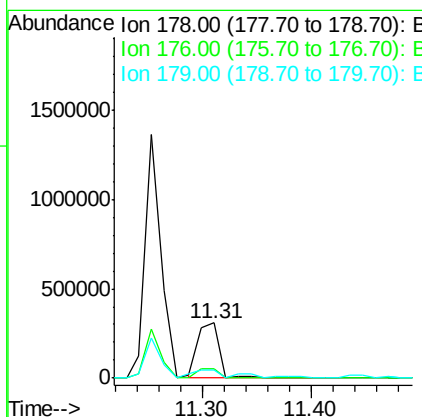
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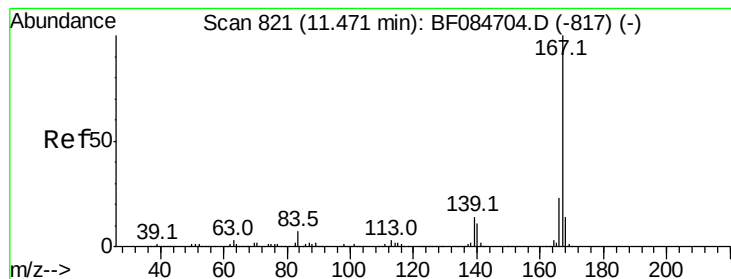
mohammad
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#71
Anthracene
Concen: 15.93 ng
RT: 11.31 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.4	23.0
179	15.0	12.5	18.7





#72

Carbazole

Concen: 5.97 ng

RT: 11.46 min Scan# 820

Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

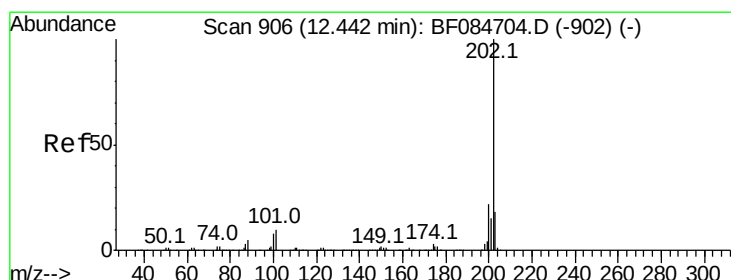
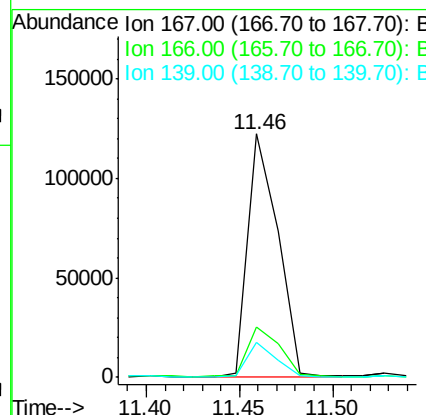
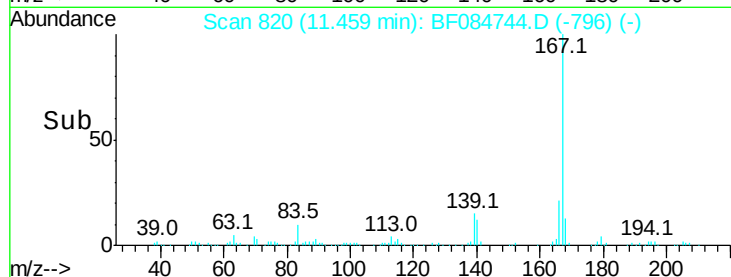
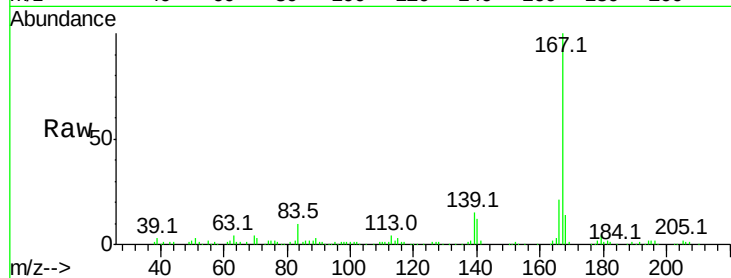
ClientSampleId :

SUP-B013(16-18)DL

Tot Ion:	167	Resp:	138610
Ion Ratio	Lower	Upper	
167	100		
166	20.6	17.6	26.4
139	14.6	11.8	17.8

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#74

Fluoranthene

Concen: 41.04 ng

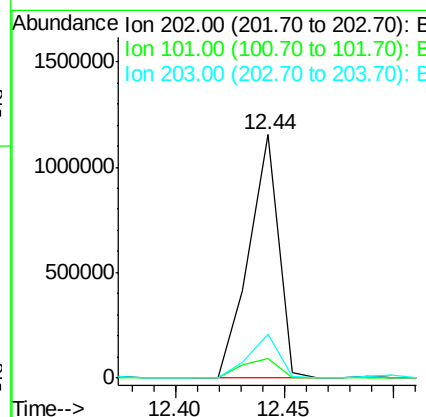
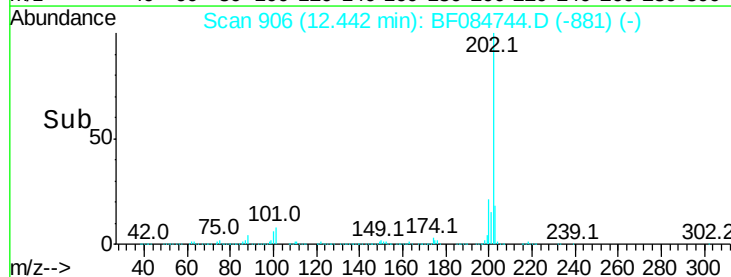
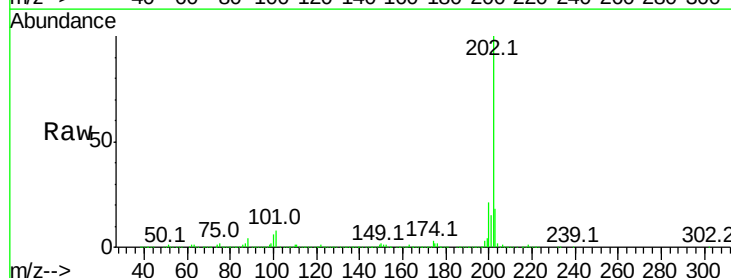
RT: 12.44 min Scan# 906

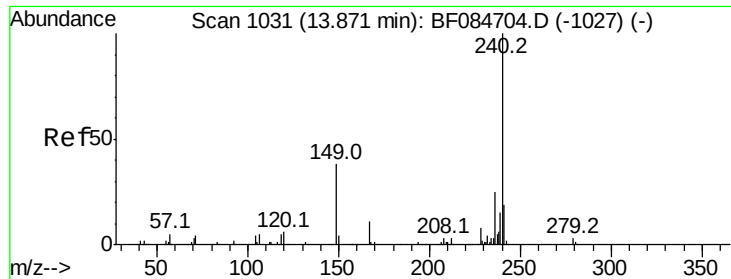
Delta R.T. -0.01 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Tgt Ion:	202	Resp:	1098289
Ion Ratio	Lower	Upper	
202	100		
101	8.3	0.0	32.8
203	18.1	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

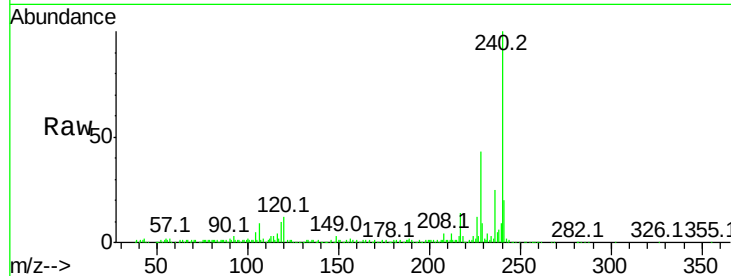
ClientSampleId :

SUP-B013(16-18)DL

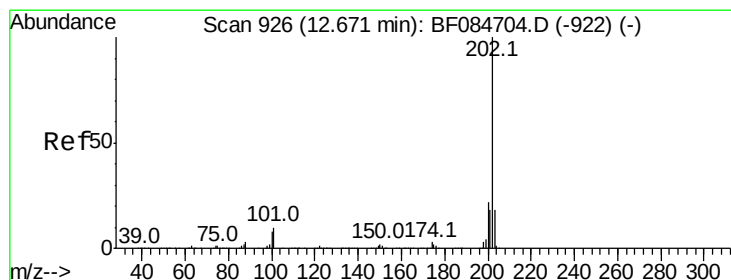
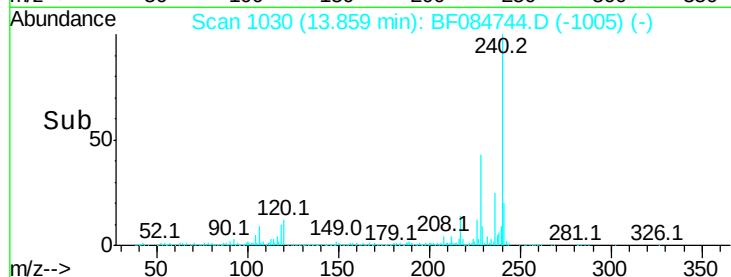
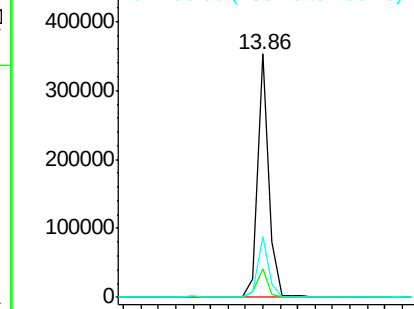
Tot Ion:	240	Resp:	319583
Ion Ratio	Lower	Upper	
240	100		
120	11.8	9.5	14.3
236	24.9	20.6	31.0

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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

Pyrene

Concen: 36.23 ng

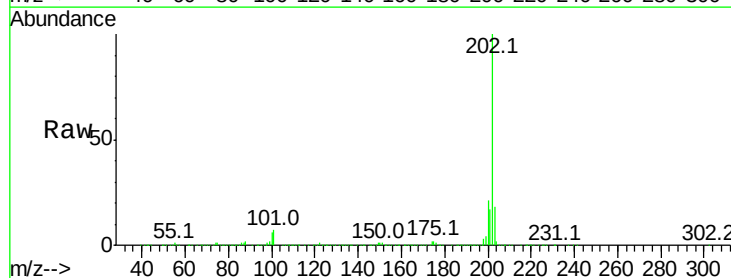
RT: 12.67 min Scan# 926

Delta R.T. -0.01 min

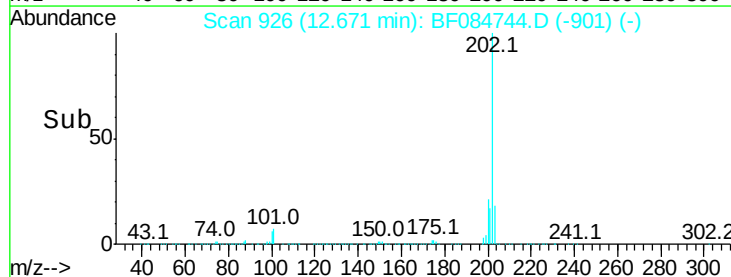
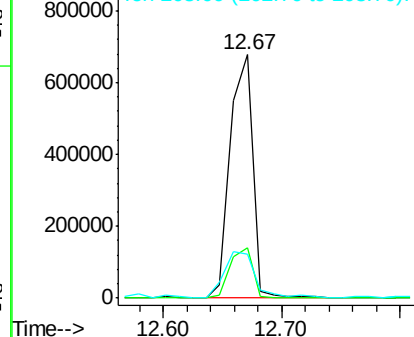
Lab File: BF084744.D

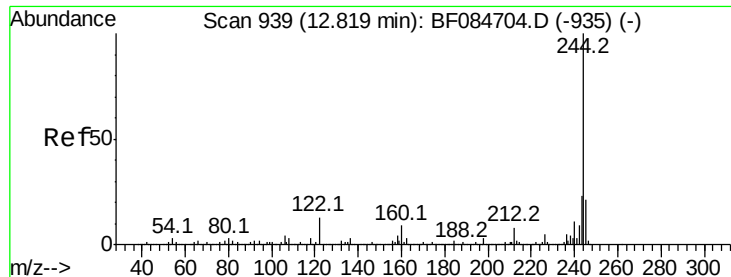
Acq: 2 Feb 2016 7:28

Tgt Ion:	202	Resp:	886588
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.2	25.8
203	18.1	14.3	21.5



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: 7.49 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

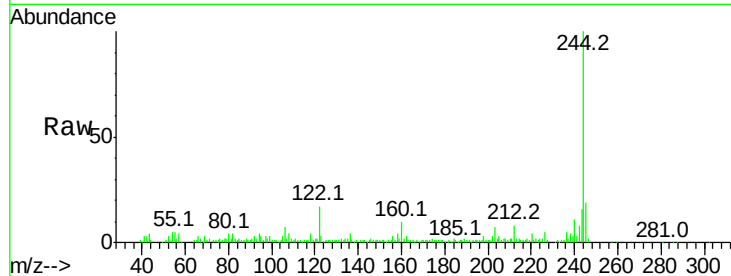
ClientSampleId :

SUP-B013(16-18)DL

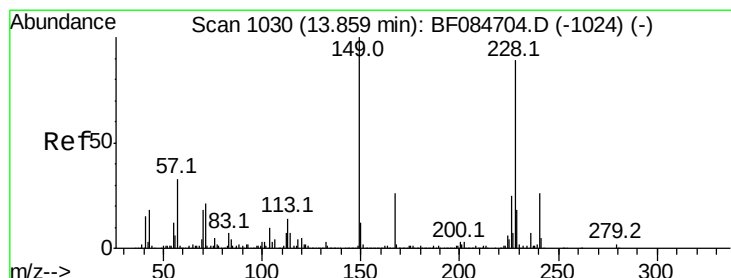
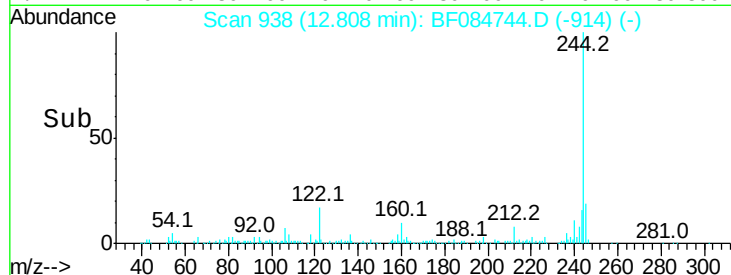
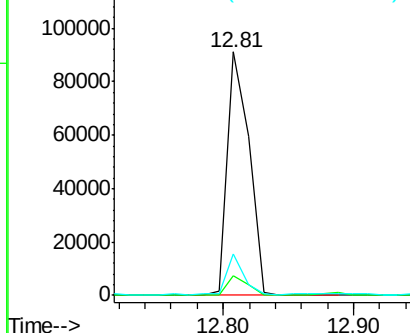
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	5.7	8.5
122	16.9	7.4	11.0

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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: 22.15 ng

RT: 13.85 min Scan# 1029

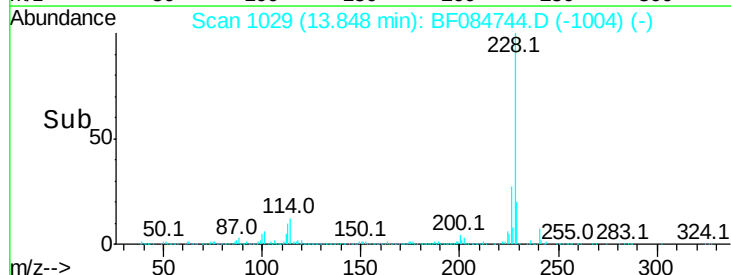
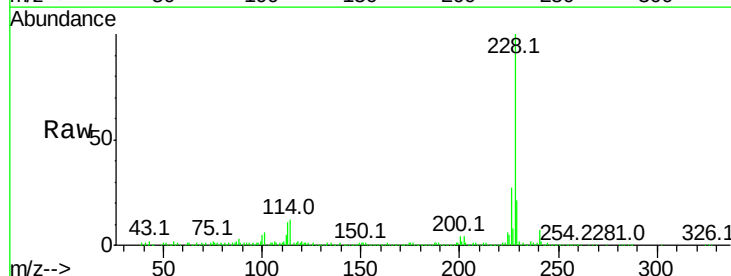
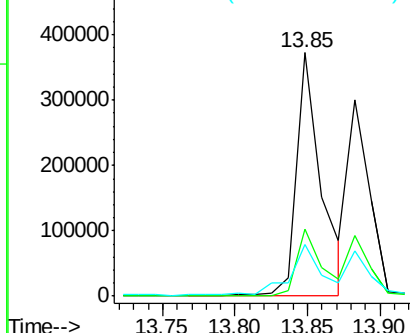
Delta R.T. -0.01 min

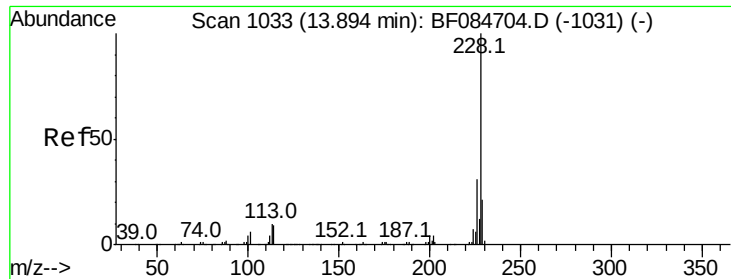
Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.6
229	21.1	15.8	23.8

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 16.14 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

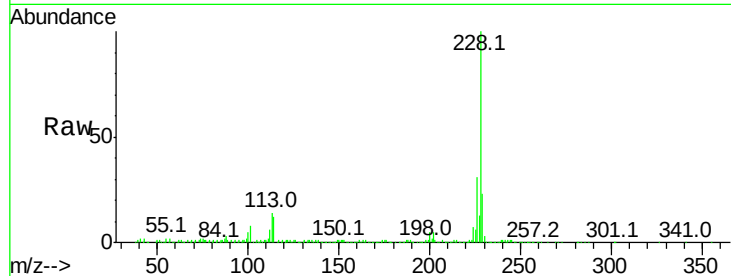
ClientSampleId :

SUP-B013(16-18)DL

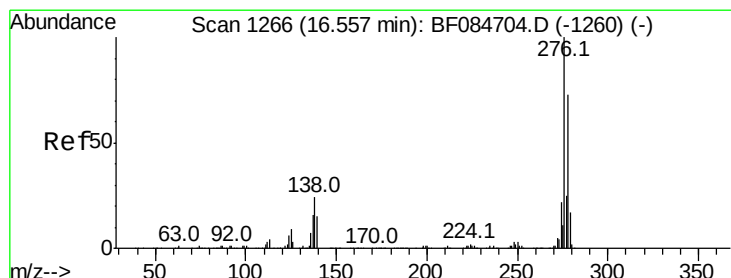
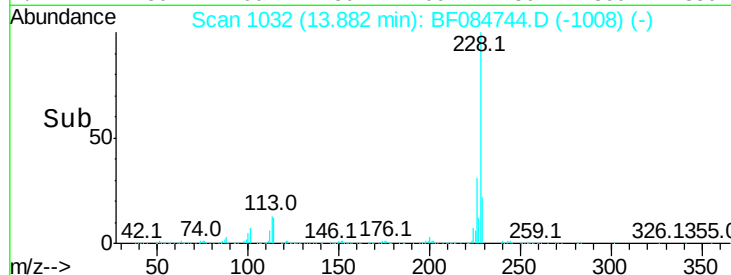
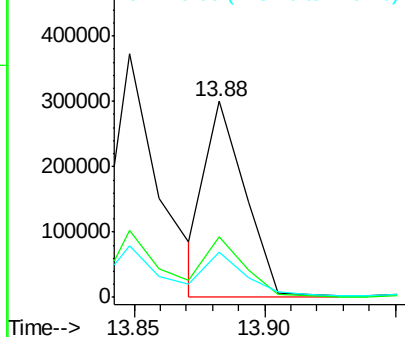
Tot Ion:	228	Resp:	310538
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.3	36.5
229	23.0	16.1	24.1

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 12.55 ng

RT: 16.55 min Scan# 1265

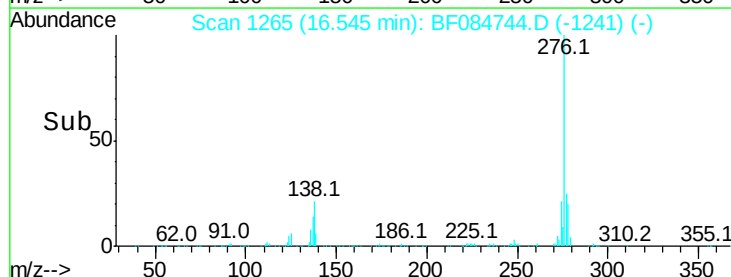
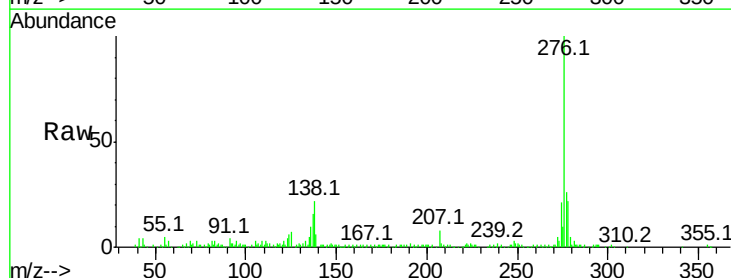
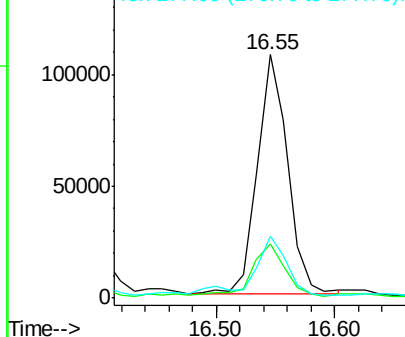
Delta R.T. -0.02 min

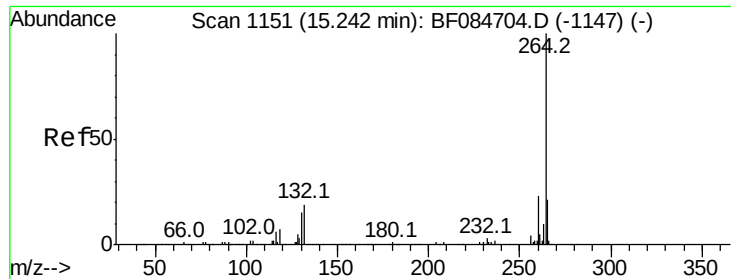
Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Tgt Ion:	276	Resp:	190049
Ion Ratio	Lower	Upper	
276	100		
138	24.1	20.6	30.8
277	29.5	20.1	30.1

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





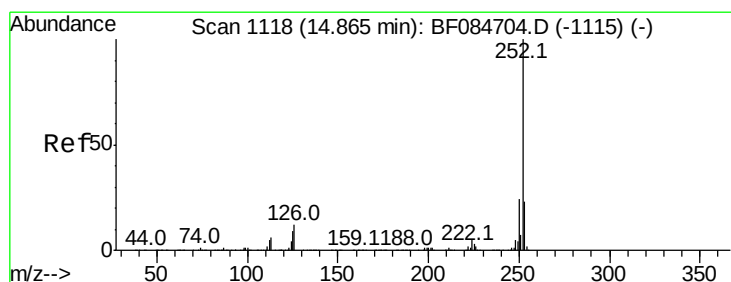
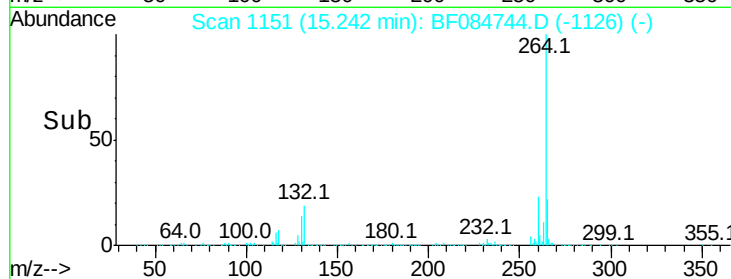
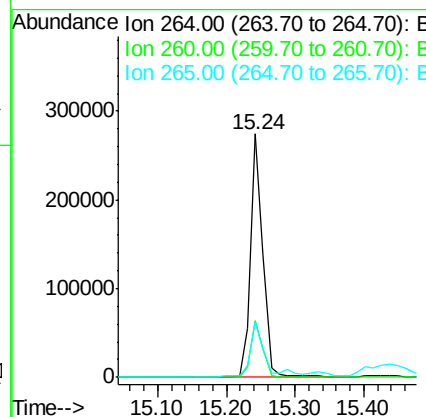
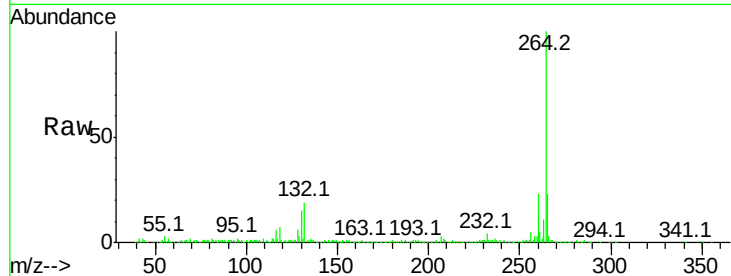
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.24 min Scan# 1151
Delta R.T. -0.01 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.4	29.2
265	22.6	17.8	26.6

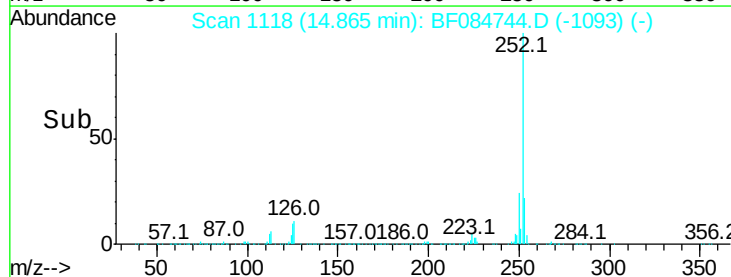
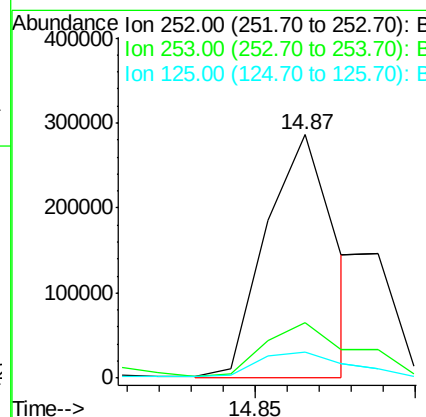
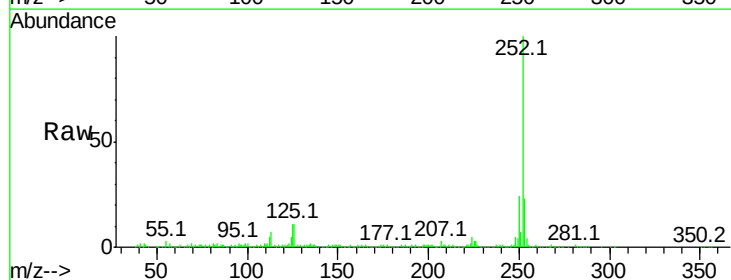
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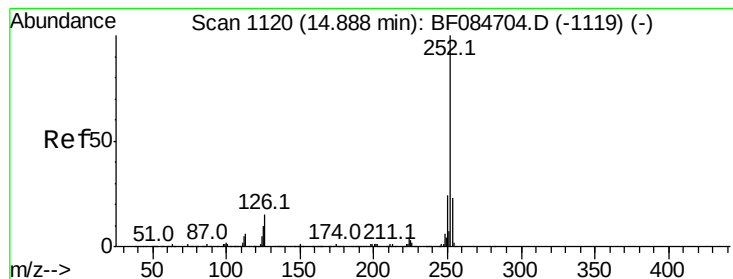
mohammad
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#87
Benzo(b)fluoranthene
Concen: 18.77 ng m
RT: 14.87 min Scan# 1118
Delta R.T. -0.01 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.3	25.9
125	10.9	6.5	9.7#





#88

Benzo(k)fluoranthene

Concen: 6.18 ng/mL

RT: 14.89 min Scan# 1120

Delta R.T. -0.01 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Instrument :

BNA_F

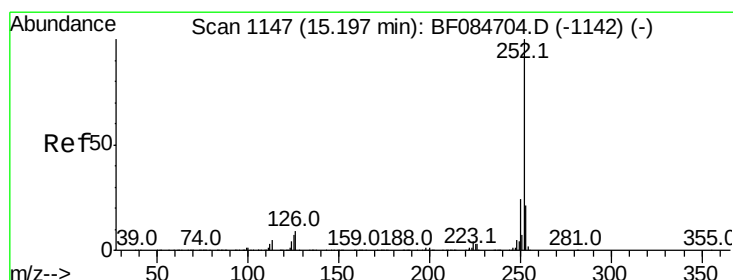
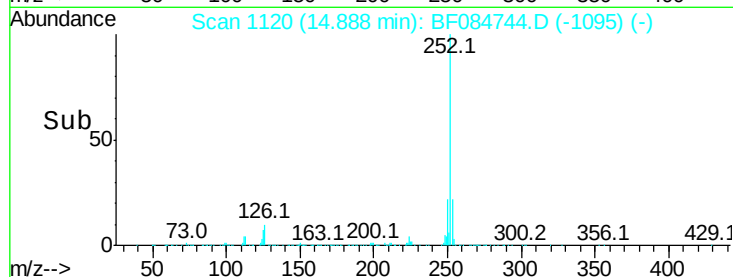
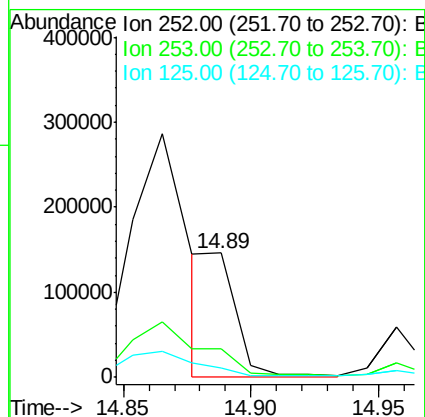
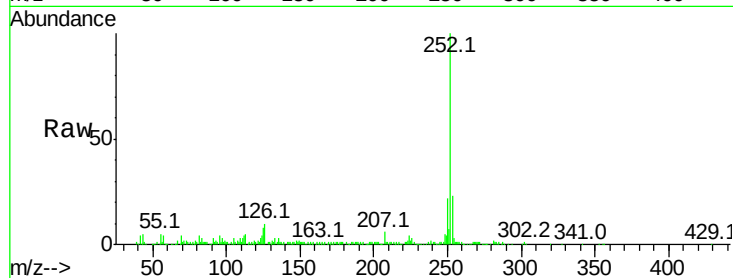
ClientSampleId :

SUP-B013(16-18)DL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	117107		
253	22.9	18.1	27.1	
125	7.8	9.0	13.6	

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#89

Benzo(a)pyrene

Concen: 15.44 ng/mL

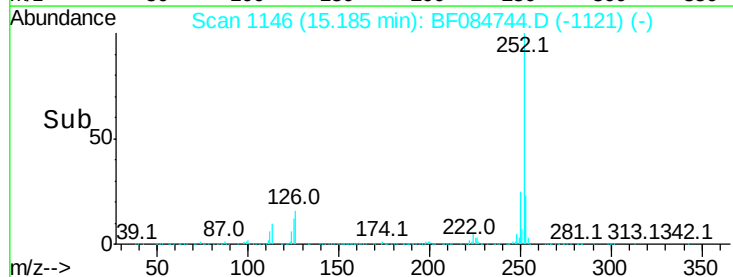
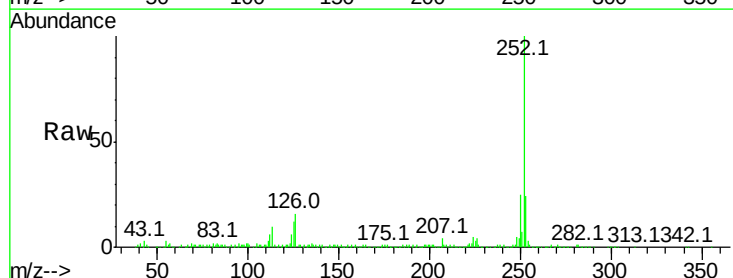
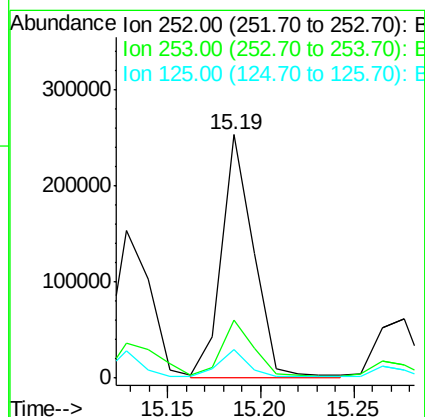
RT: 15.19 min Scan# 1146

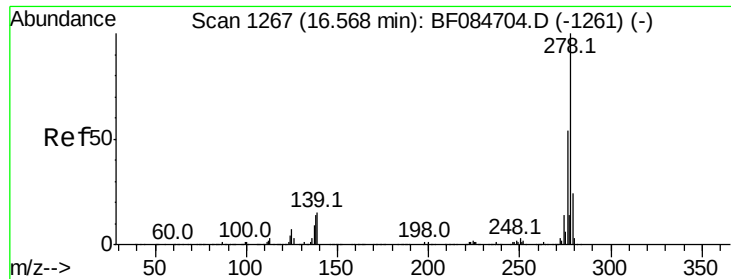
Delta R.T. -0.01 min

Lab File: BF084744.D

Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	301490		
253	23.7	17.3	25.9	
125	11.9	7.0	10.4	





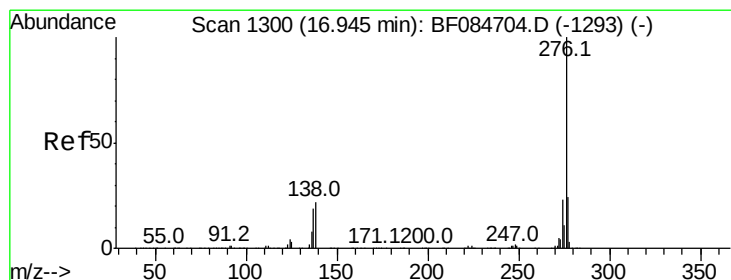
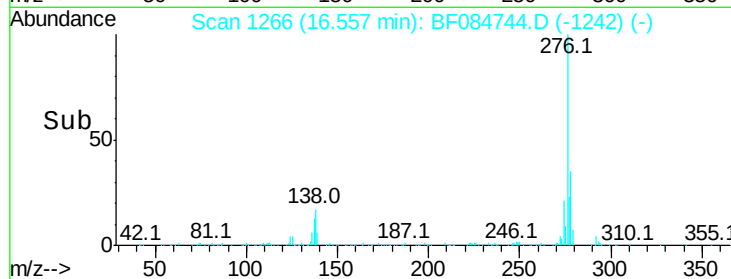
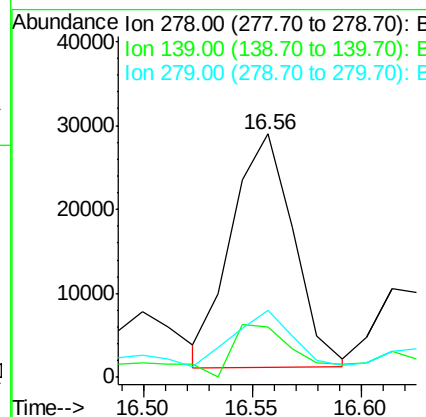
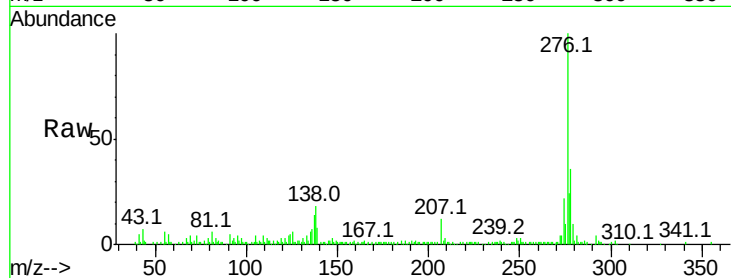
#90
Dibenzo(a,h)anthracene
Concen: 3.35 ng
RT: 16.56 min Scan# 1266
Delta R.T. -0.02 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.7	15.0	22.4
279	27.7	18.9	28.3

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#91
Benzo(g,h,i)perylene
Concen: 11.41 ng
RT: 16.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF084744.D
Acq: 2 Feb 2016 7:28

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.8	28.2
138	19.0	17.8	26.6

