

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
 Data File : BF087603.D
 Acq On : 1 Jun 2016 3:45
 Operator : UM/SJ
 Sample : H3211-04DL 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

Manual Integrations
 APPROVED

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Quant Time: Jun 01 13:12:42 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 01 03:17:16 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.46	152	111444	20.00	ng	0.01
21) Naphthalene-d8	9.48	136	456106	20.00	ng	0.01
38) Acenaphthene-d10	12.30	164	223876	20.00	ng	-0.01
63) Phenanthrene-d10	14.71	188	429066	20.00	ng	0.00
75) Chrysene-d12	18.42	240	288447	20.00	ng	0.00
86) Perylene-d12	20.11	264	226386	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.68	112	36372m	5.73	ng	0.33
7) Phenol-d6	7.20	99	60085m	7.01	ng	0.18
23) Nitrobenzene-d5	8.54	82	38923m	4.30	ng	0.16
41) 2,4,6-Tribromophenol	13.66	330	14918	6.93	ng	0.05
44) 2-Fluorobiphenyl	11.28	172	104453	6.58	ng	0.02
78) Terphenyl-d14	17.06	244	90889	6.70	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	12.11	152	56529	2.48	ng	98
70) Phenanthrene	14.78	178	99438	4.18	ng	99
74) Fluoranthene	16.54	202	332099	13.93	ng	92
77) Pyrene	16.83	202	317046	15.27	ng	97
80) Benzo(a)anthracene	18.41	228	173791	10.59	ng	100
82) Chrysene	18.48	228	183188m	11.25	ng	
85) Indeno(1,2,3-cd)pyrene	21.38	276	136605m	10.46	ng	
87) Benzo(b)fluoranthene	19.71	252	242926m	16.85	ng	
88) Benzo(k)fluoranthene	19.75	252	77365m	6.23	ng	
89) Benzo(a)pyrene	20.07	252	153695	12.32	ng	98
90) Dibenzo(a,h)anthracene	21.36	278	32119m	3.02	ng	
91) Benzo(a,h,i)perylene	21.74	276	113544	10.82	ng	# 93

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

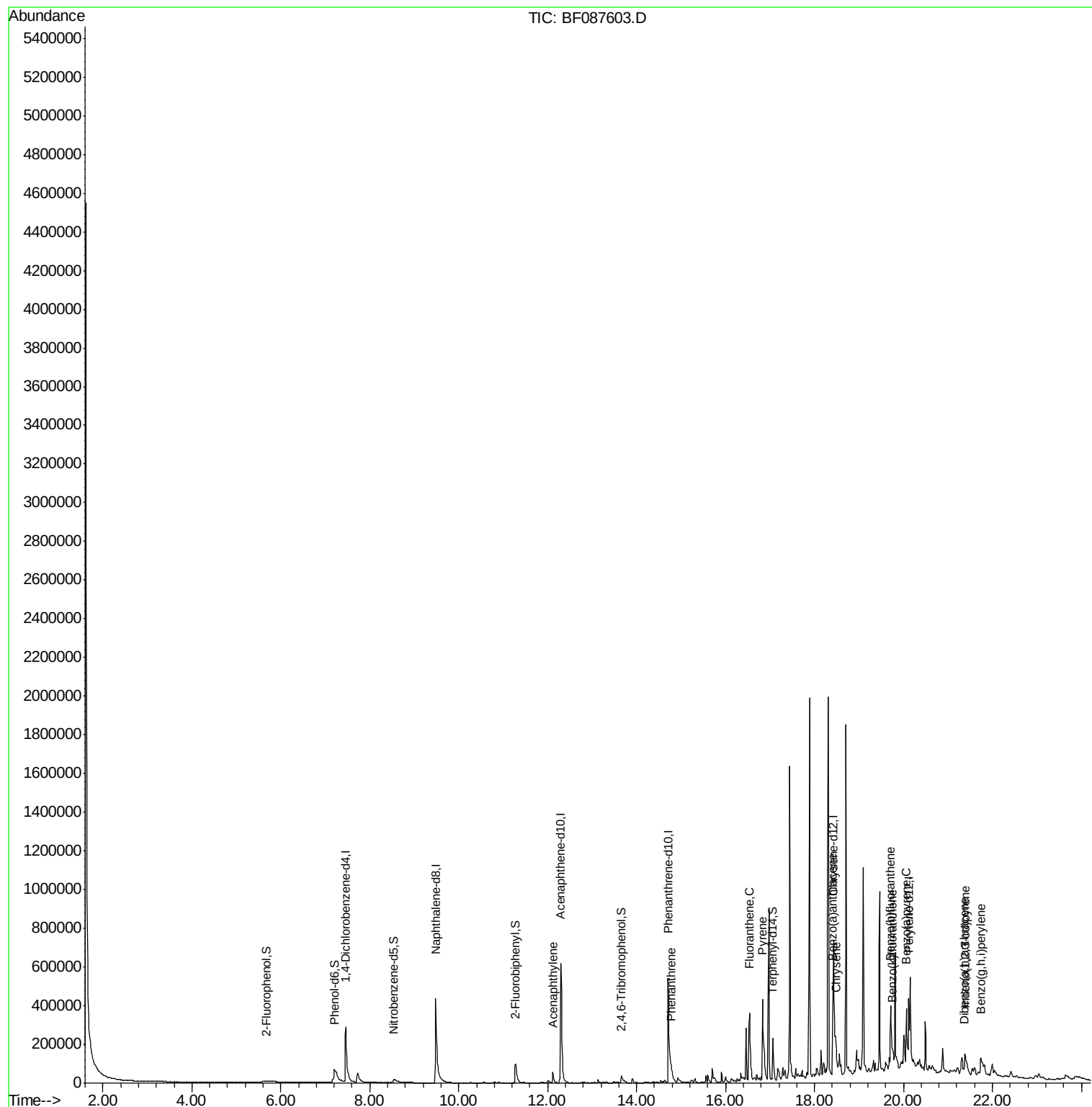
Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
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Sample : H3211-04DL 10X
Misc :
ALS Vial : 18 Sample Multiplier: 1

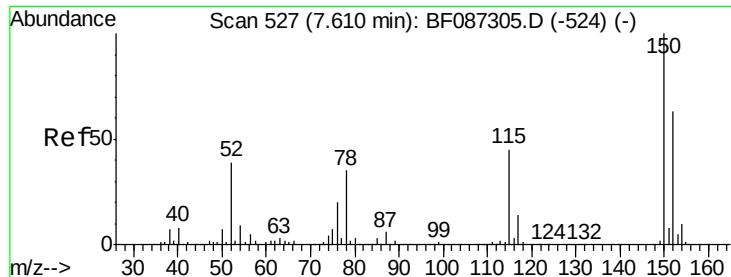
Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

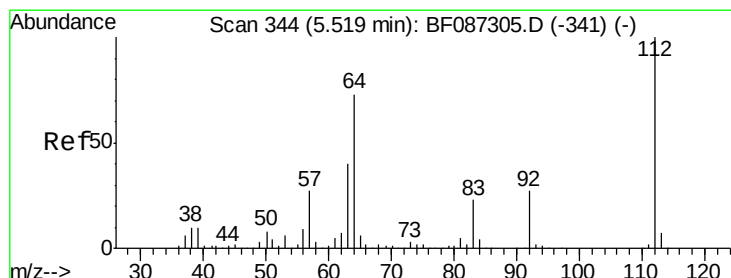
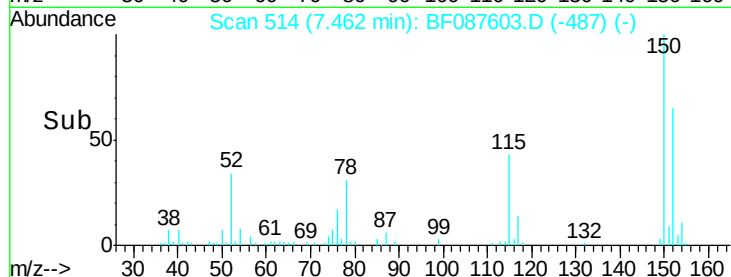
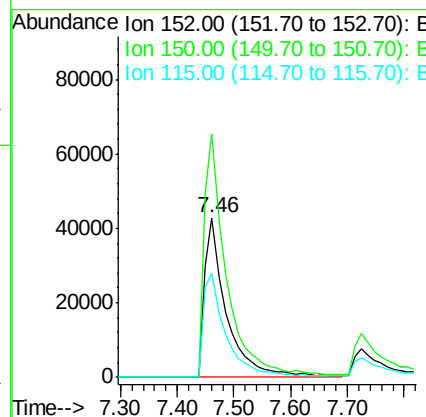
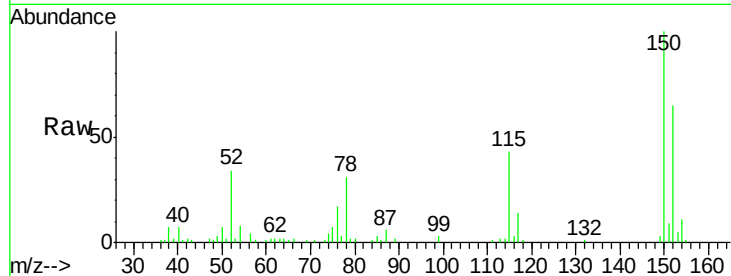
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.46 min Scan# 514
Delta R.T. 0.01 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.0	125.8	188.6
115	65.2	51.5	77.3

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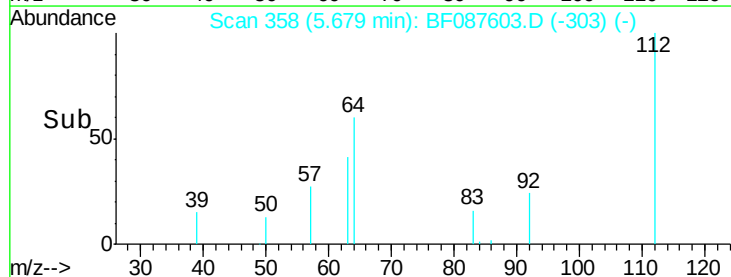
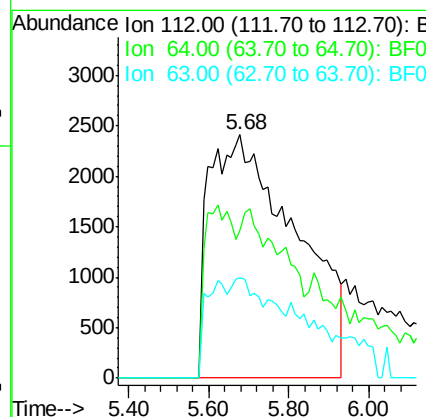
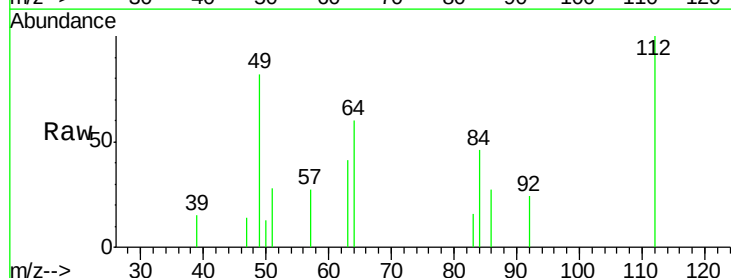
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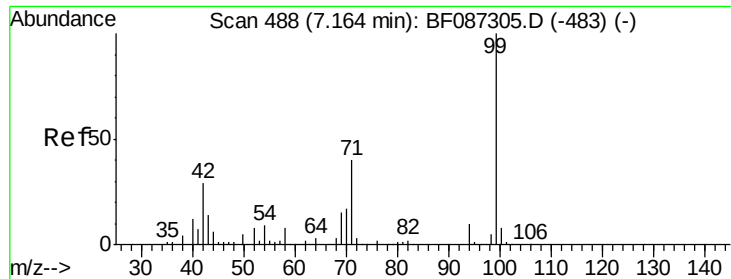


#5

2-Fluorophenol
Concen: 5.73 ng m
RT: 5.68 min Scan# 358
Delta R.T. 0.33 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.5	52.1	78.1
63	41.3	25.7	38.5





#7

Phenol-d6

Concen: 7.01 ng/mL

RT: 7.20 min Scan# 491

Delta R.T. 0.18 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA_F

ClientSampleID :

TA-1304-(0-4)DL

Tot Ion: 99 Resp: 60085

Ion Ratio Lower Upper

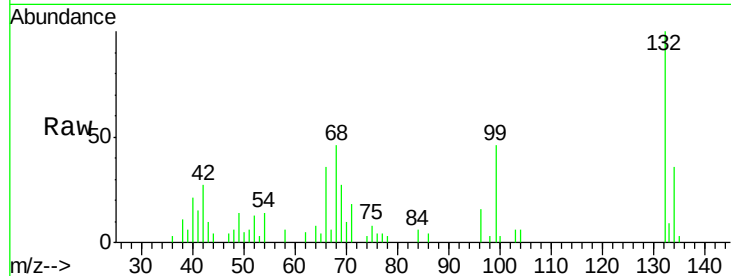
99 100

42 58.7 13.6 20.4#

71 38.9 24.6 36.8#

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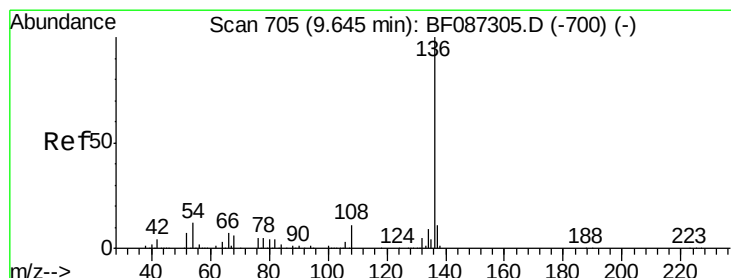
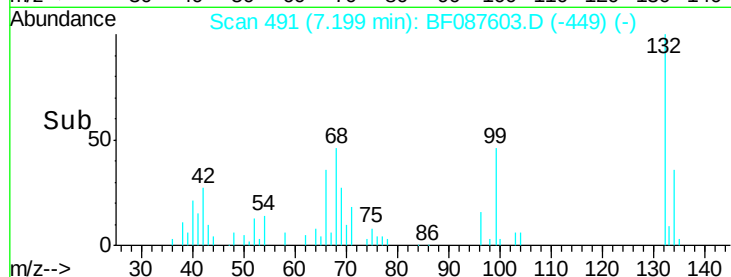
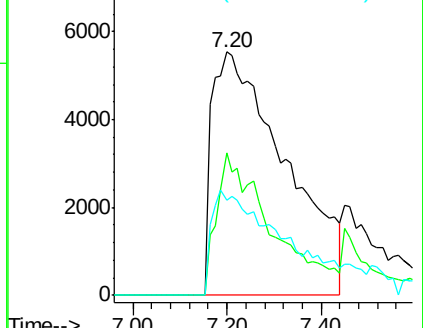
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.48 min Scan# 691

Delta R.T. 0.01 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion: 136 Resp: 456106

Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 10.8 5.0 7.4#

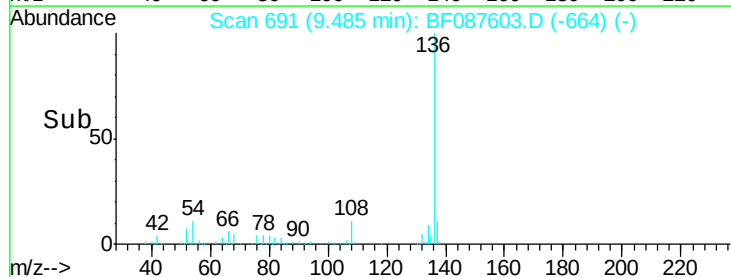
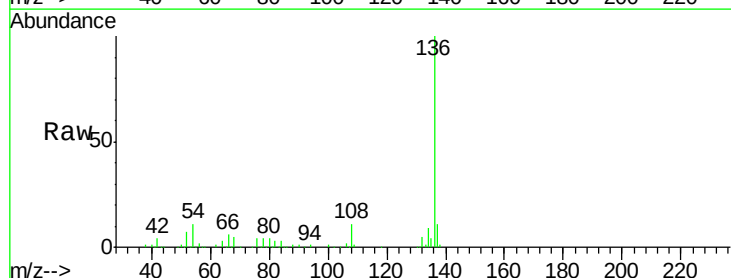
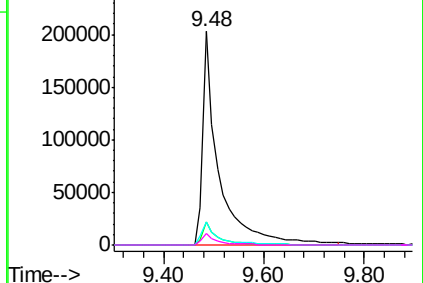
68 5.2 4.4 6.6

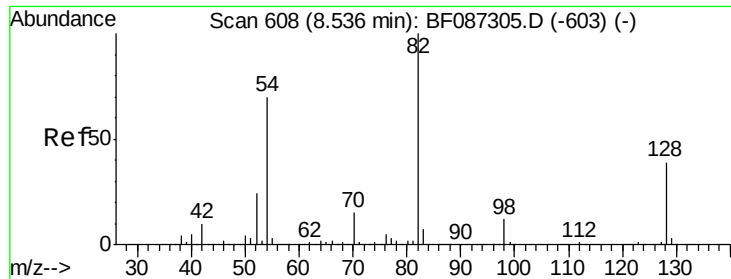
Abundance Ion 136.00 (135.70 to 136.70): E

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





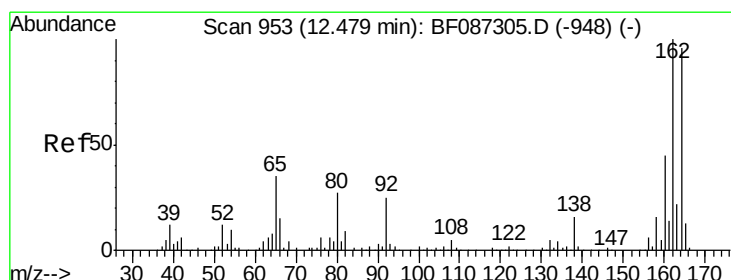
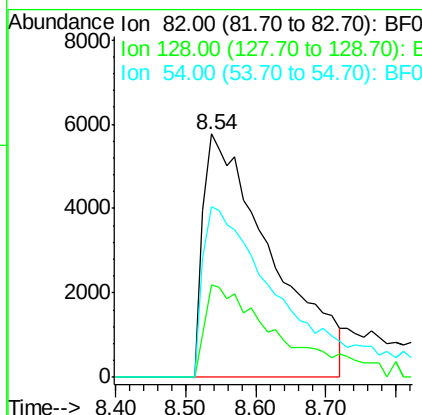
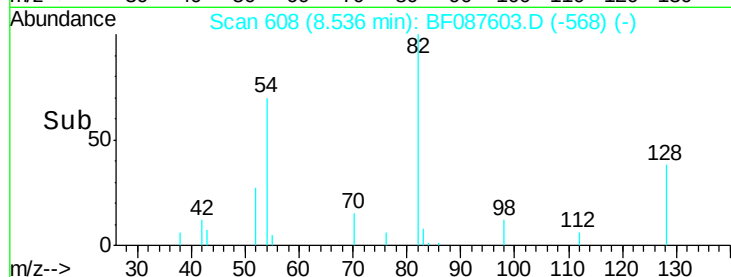
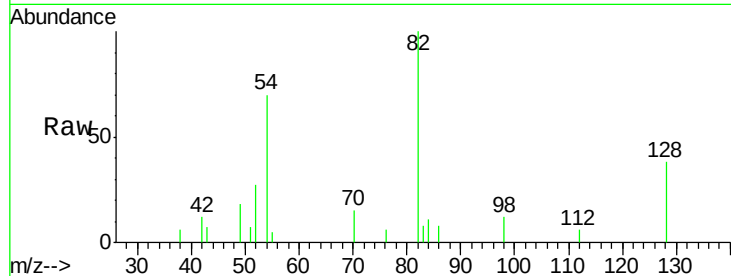
#23
Nitrobenzene-d5
Concen: 4.30 ng/ml
RT: 8.54 min Scan# 608
Delta R.T. 0.16 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Instrument :
BNA_F
ClientSampleID :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.2	40.6	61.0#
54	70.1	38.1	57.1#

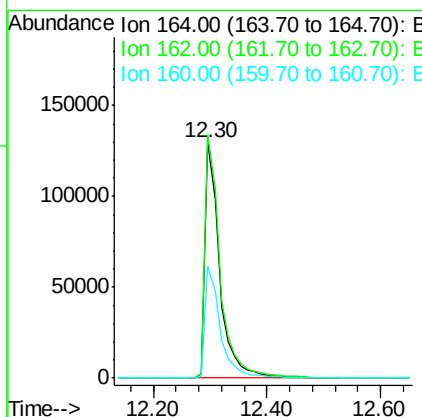
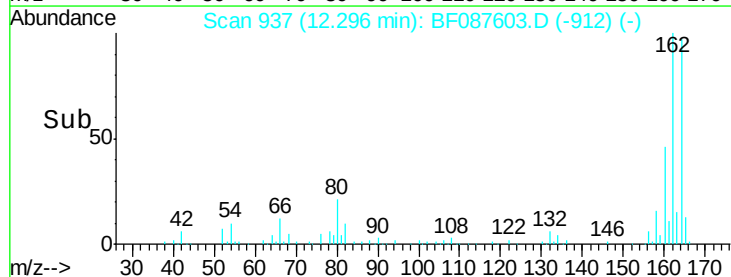
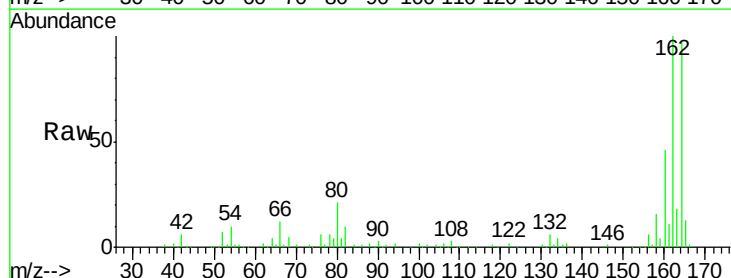
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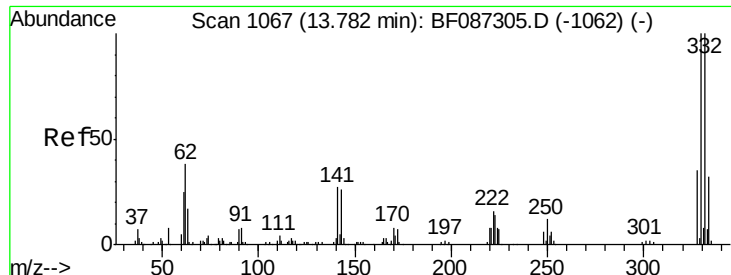
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.30 min Scan# 937
Delta R.T. -0.01 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.8	124.2
160	47.6	36.9	55.3





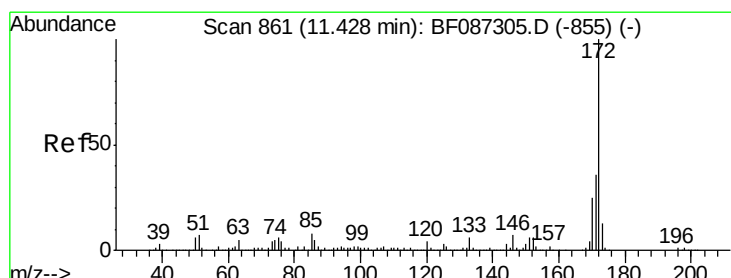
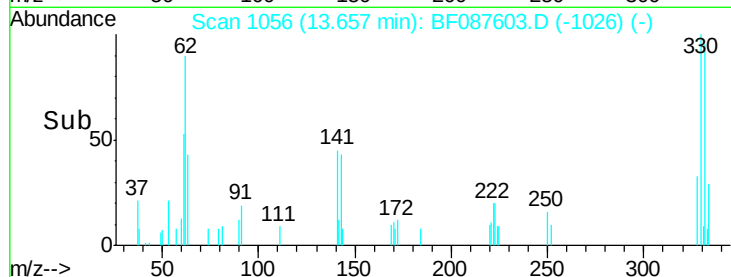
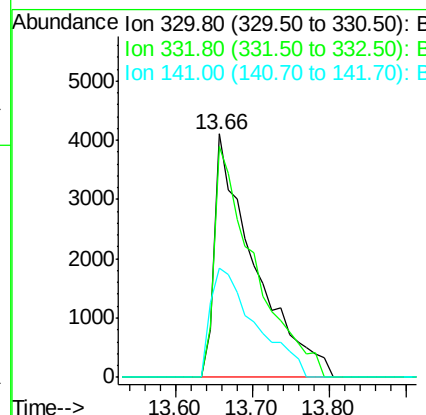
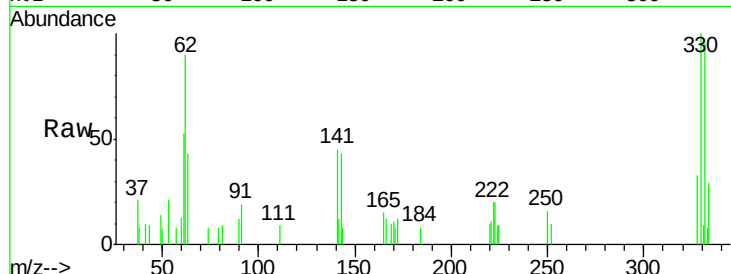
#41
 2,4,6-Tribromophenol
 Concen: 6.93 ng
 RT: 13.66 min Scan# 1056
 Delta R.T. 0.05 min
 Lab File: BF087603.D
 Acq: 1 Jun 2016 3:45

Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.4	79.0	118.4	
141	50.2	31.2	46.8	

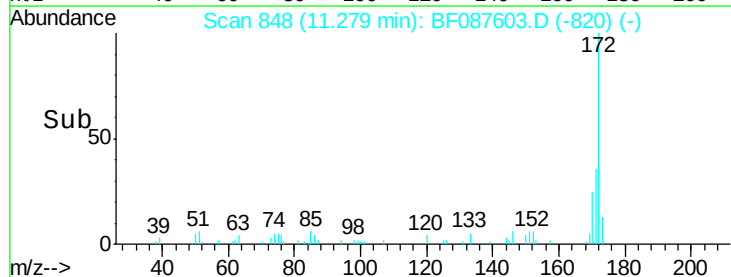
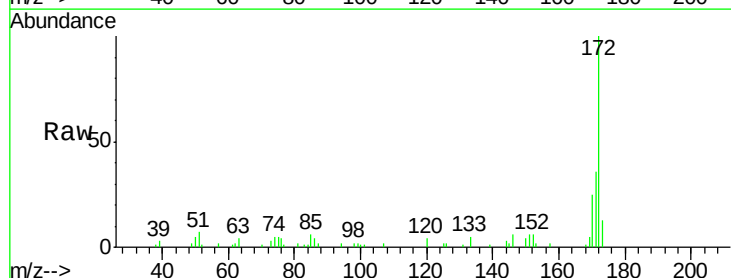
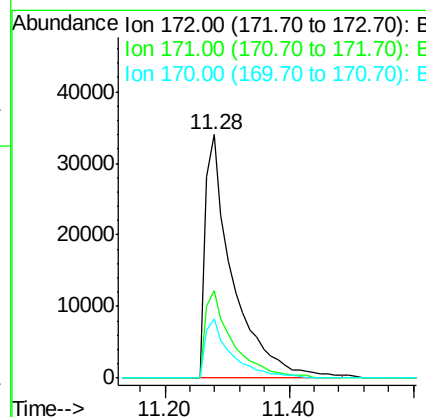
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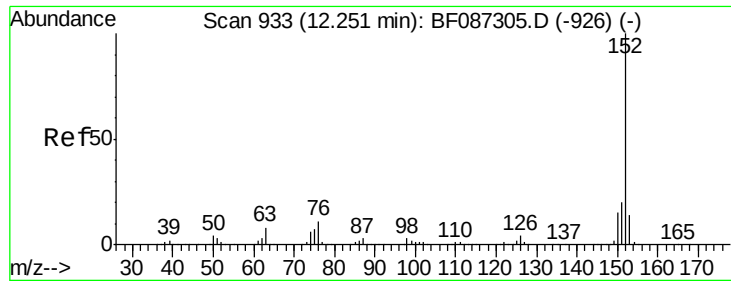
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#44
 2-Fluorobiphenyl
 Concen: 6.58 ng
 RT: 11.28 min Scan# 848
 Delta R.T. 0.02 min
 Lab File: BF087603.D
 Acq: 1 Jun 2016 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.1	29.0	43.6	
170	24.6	19.8	29.8	





#48

Acenaphthylene

Concen: 2.48 ng

RT: 12.11 min Scan# 921

Delta R.T. 0.03 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA_F

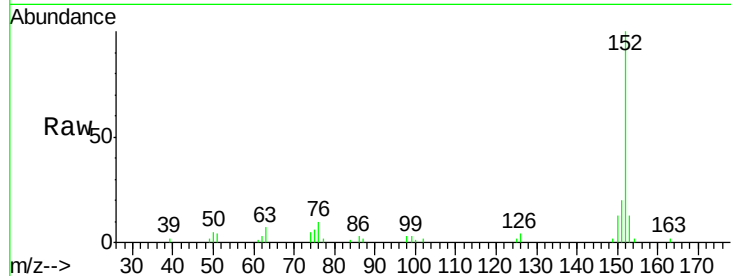
ClientSampleId :

TA-1304-(0-4)DL

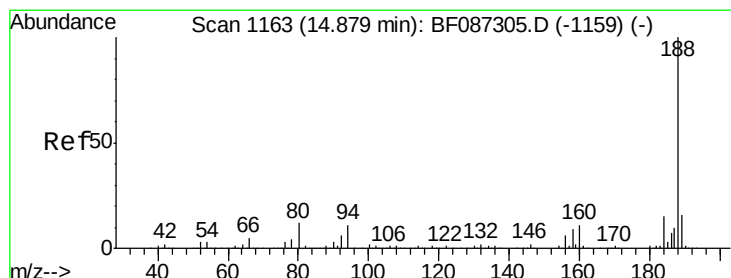
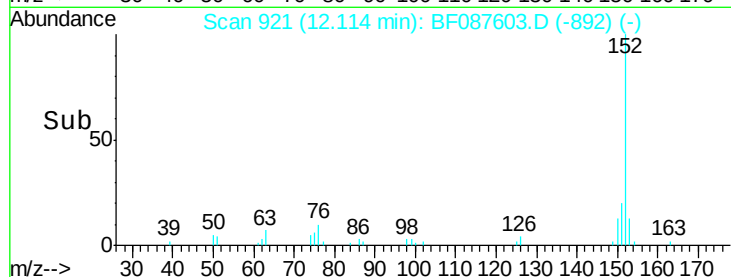
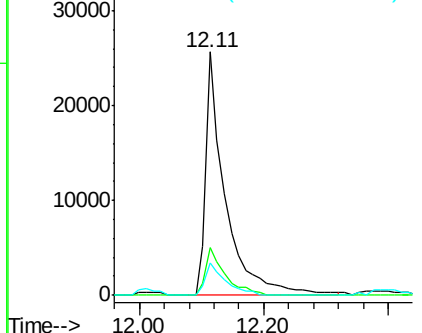
Tot Ion:	152	Resp:	56529
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.8	25.2
153	13.1	10.9	16.3

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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.71 min Scan# 1148

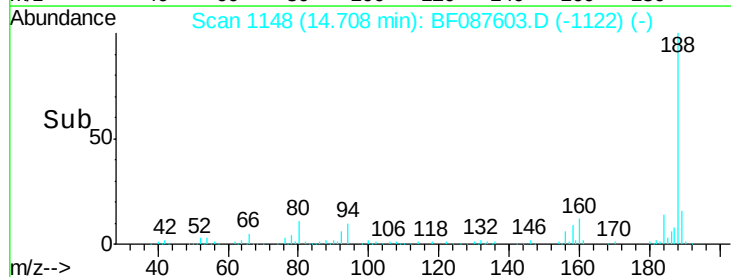
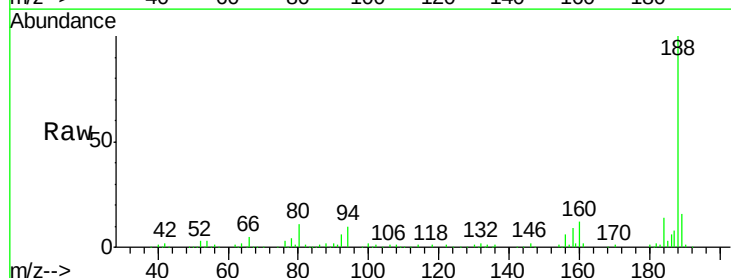
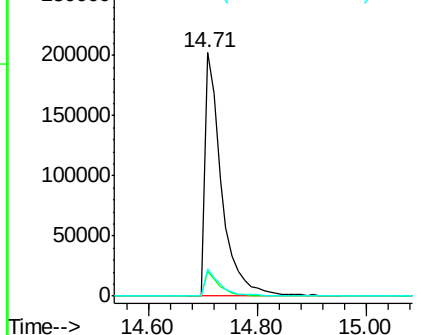
Delta R.T. -0.00 min

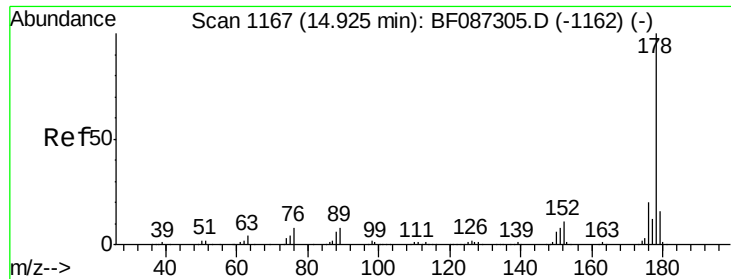
Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion:	188	Resp:	429066
Ion Ratio	Lower	Upper	
188	100		
94	10.3	6.8	10.2#
80	11.4	7.1	10.7#

Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 4.18 ng

RT: 14.78 min Scan# 1154

Delta R.T. 0.02 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA_F

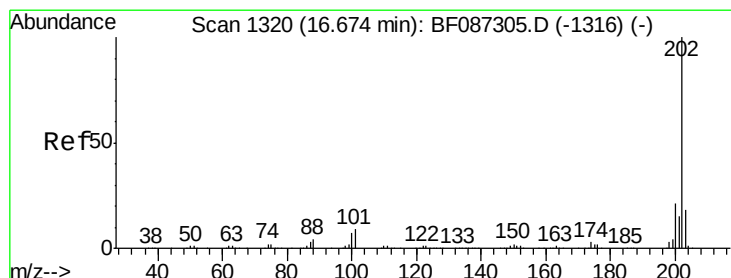
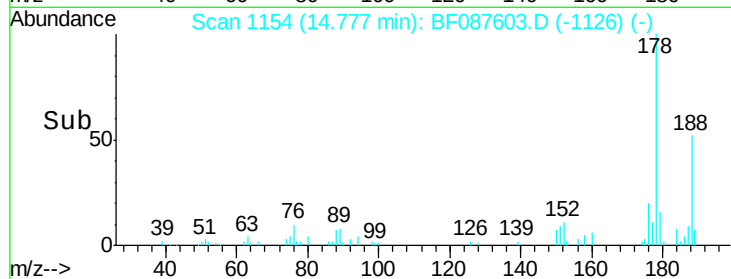
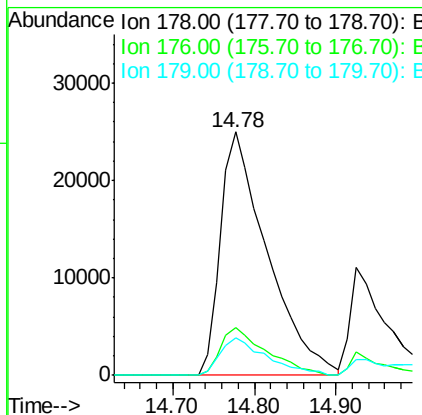
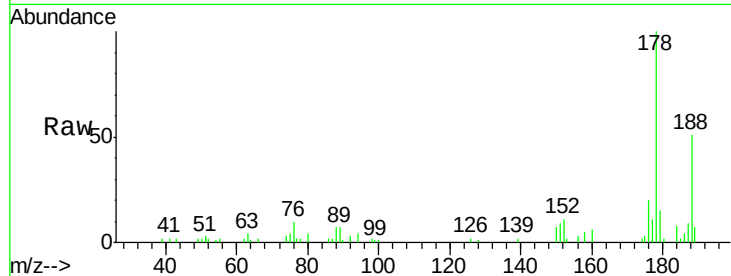
ClientSampleId :

TA-1304-(0-4)DL

Tot Ion:	178	Resp:	99438
Ion Ratio	Lower	Upper	
178	100		
176	19.9	16.0	24.0
179	15.2	12.6	18.8

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#74

Fluoranthene

Concen: 13.93 ng

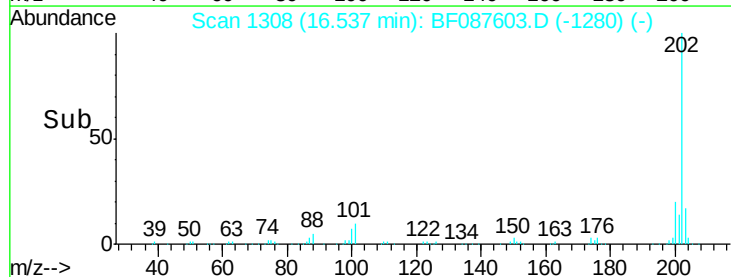
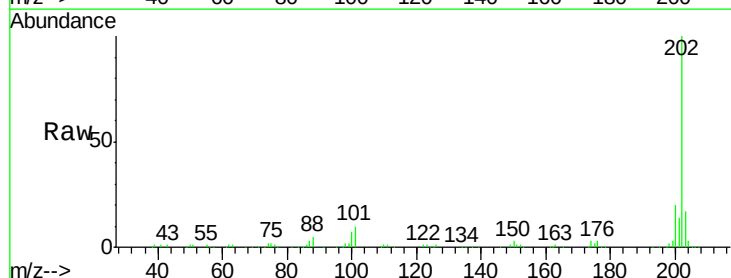
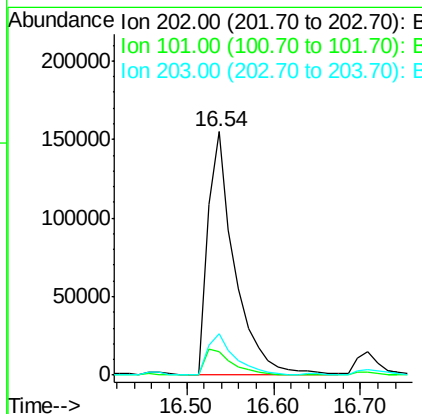
RT: 16.54 min Scan# 1308

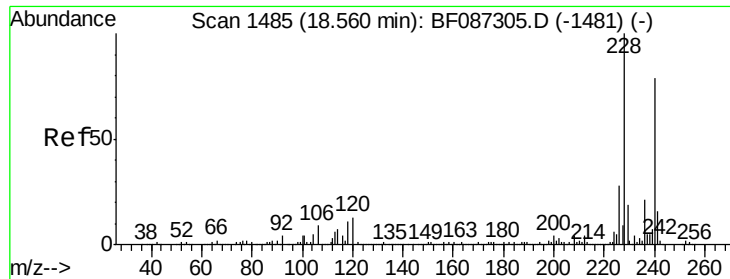
Delta R.T. 0.02 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion:	202	Resp:	332099
Ion Ratio	Lower	Upper	
202	100		
101	9.6	0.0	35.4
203	17.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.42 min Scan# 1473

Delta R.T. -0.00 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA_F

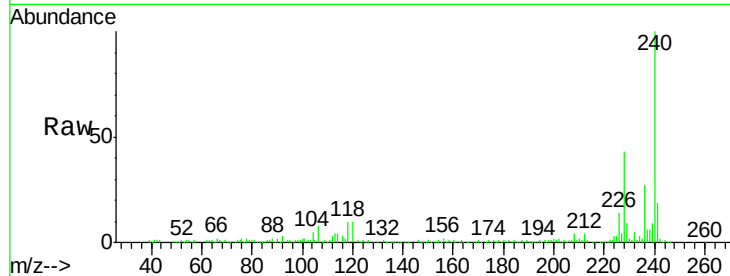
ClientSampleId :

TA-1304-(0-4)DL

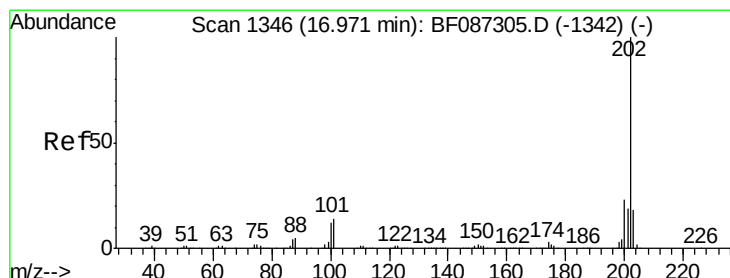
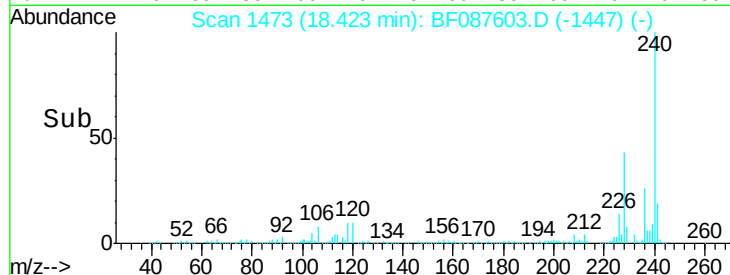
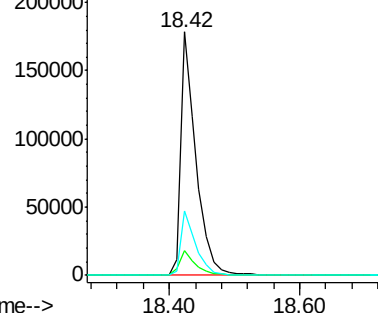
Tot Ion:	240	Resp:	288447
Ion Ratio	Lower	Upper	
240	100		
120	10.3	11.2	16.8#
236	26.7	21.2	31.8

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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: 15.27 ng

RT: 16.83 min Scan# 1334

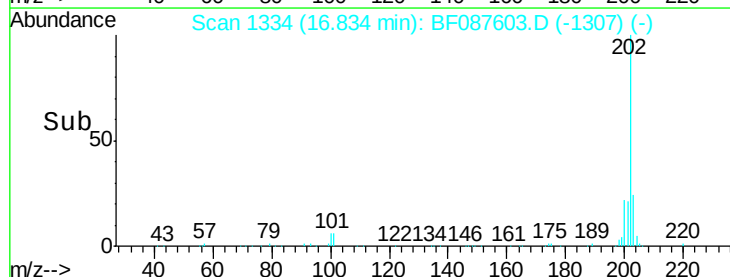
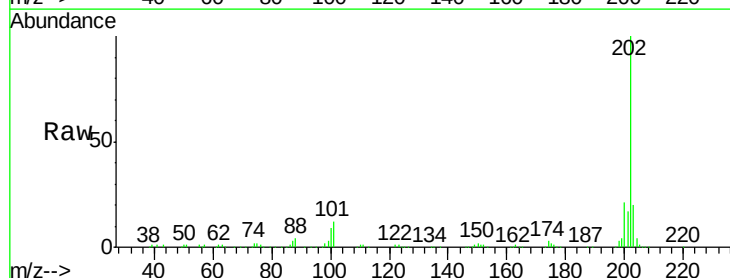
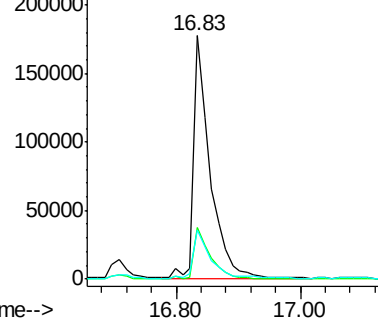
Delta R.T. 0.01 min

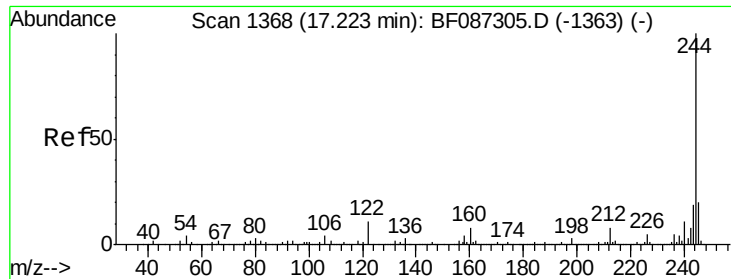
Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion:	202	Resp:	317046
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.7	26.5
203	19.9	14.2	21.4

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





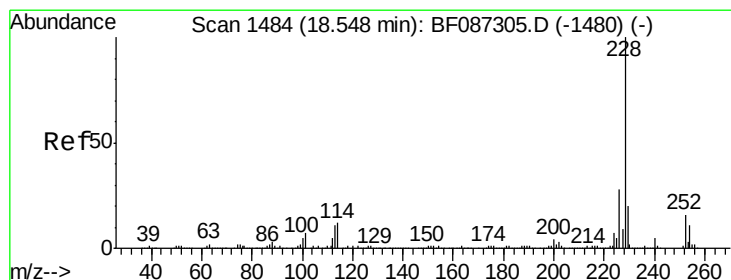
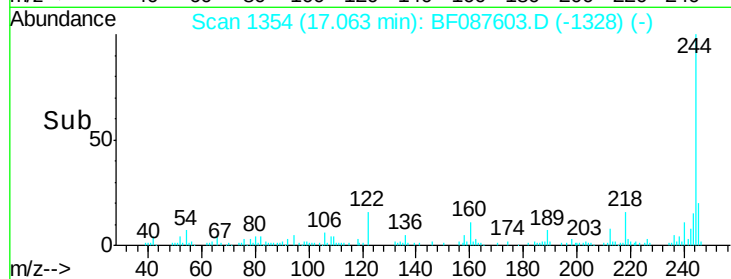
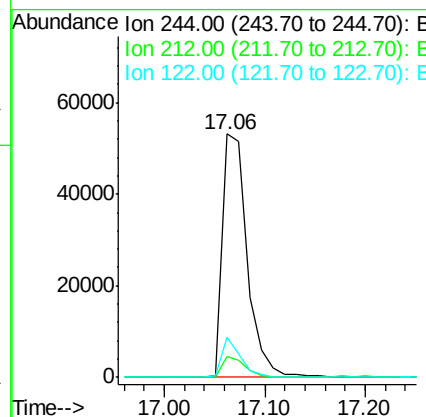
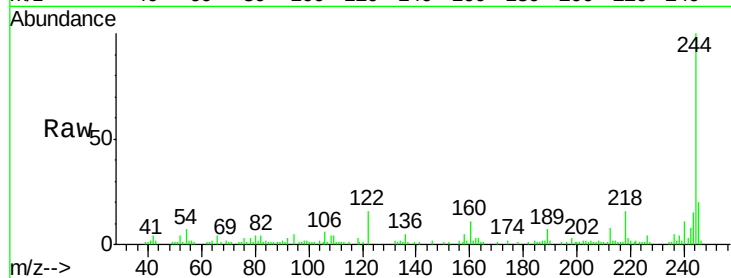
#78
 Terphenyl-d14
 Concen: 6.70 ng
 RT: 17.06 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: BF087603.D
 Acq: 1 Jun 2016 3:45

Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.4	6.2	9.2
122	16.3	12.0	18.0

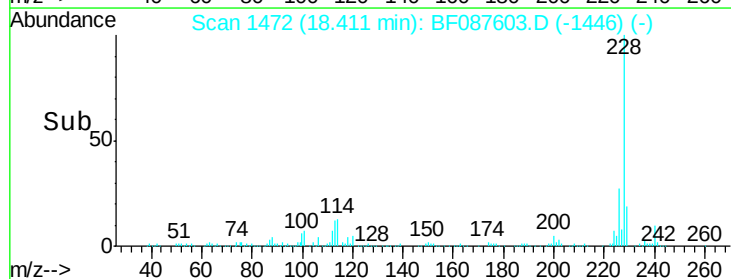
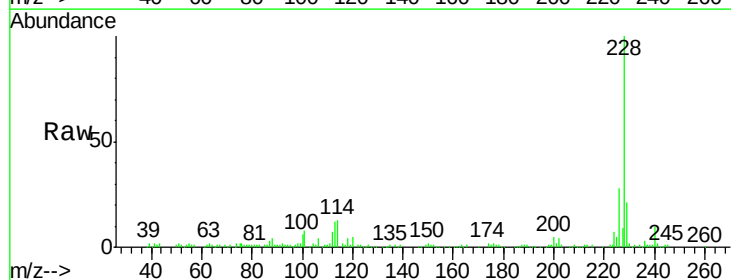
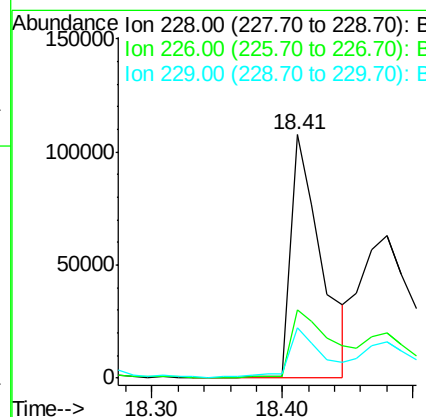
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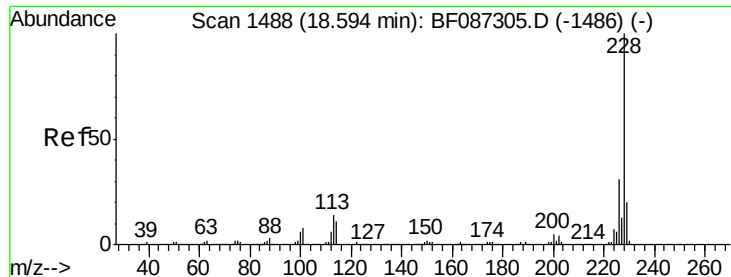
sohil
 6/1/2016 6:34:22 PM



#80
 Benzo(a)anthracene
 Concen: 10.59 ng
 RT: 18.41 min Scan# 1472
 Delta R.T. -0.00 min
 Lab File: BF087603.D
 Acq: 1 Jun 2016 3:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.6	16.6	25.0





#82

Chrysene

Concen: 11.25 ng m

RT: 18.48 min Scan# 1478

Delta R.T. 0.02 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA_F

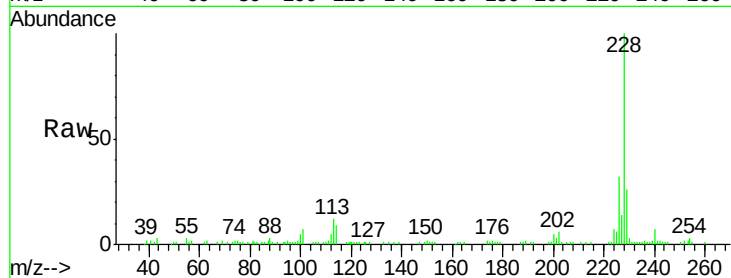
ClientSampleId :

TA-1304-(0-4)DL

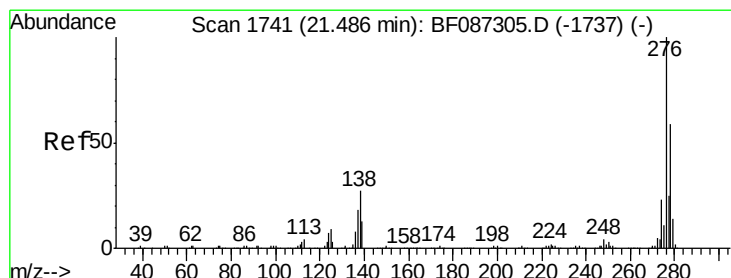
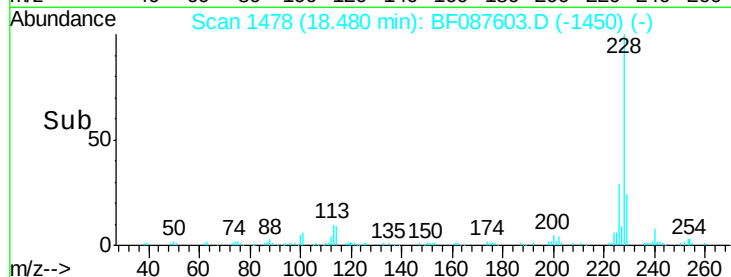
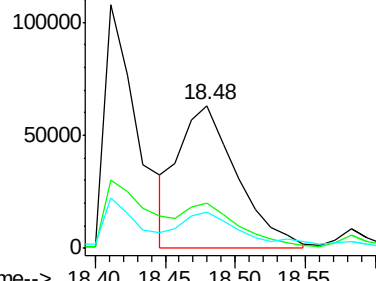
Tot Ion:	228	Resp:	183188
Ion Ratio		Lower	Upper
228	100		
226	31.9	24.4	36.6
229	25.8	15.8	23.8#

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6/1/2016 6:34:22 PM



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: 10.46 ng m

RT: 21.38 min Scan# 1732

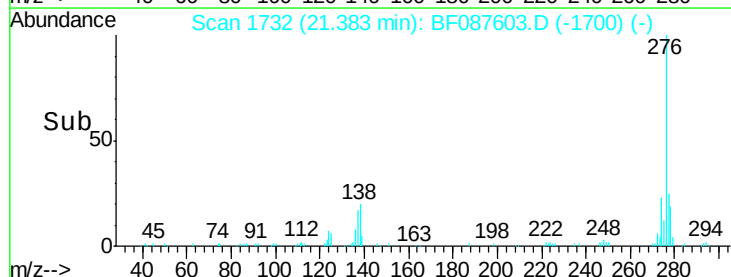
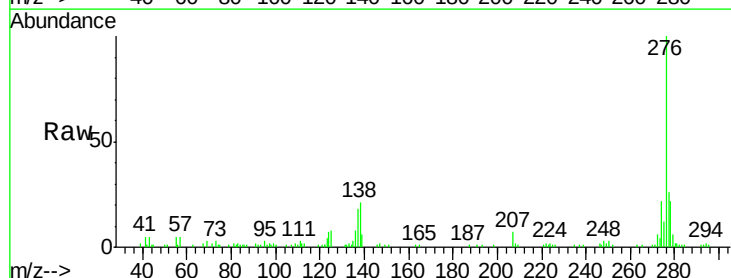
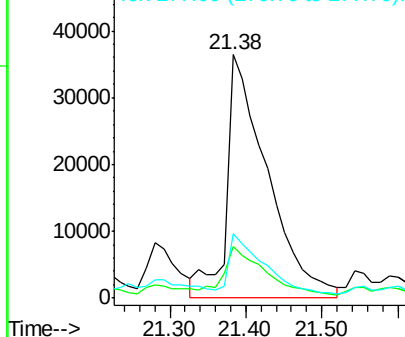
Delta R.T. 0.07 min

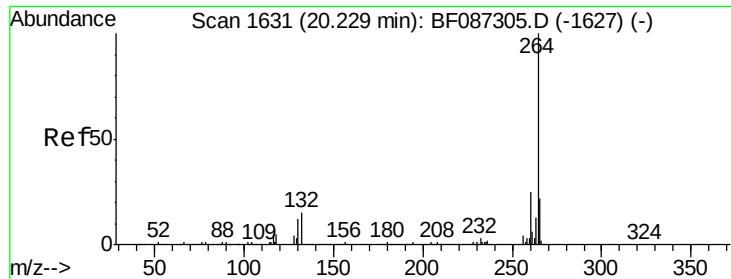
Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion:	276	Resp:	136605
Ion Ratio		Lower	Upper
276	100		
138	2.4	25.6	38.4#
277	5.3	20.5	30.7#

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





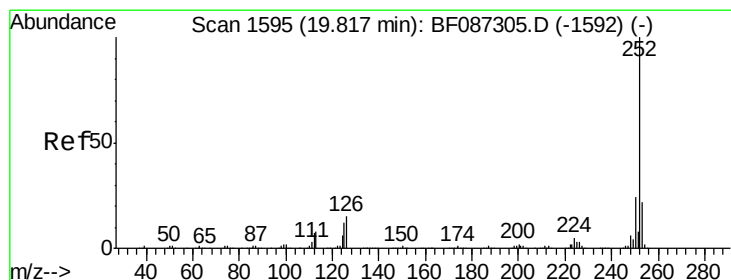
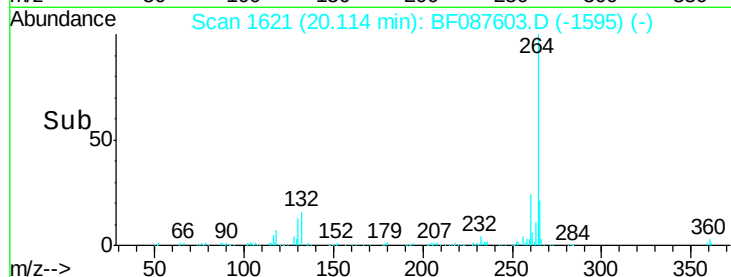
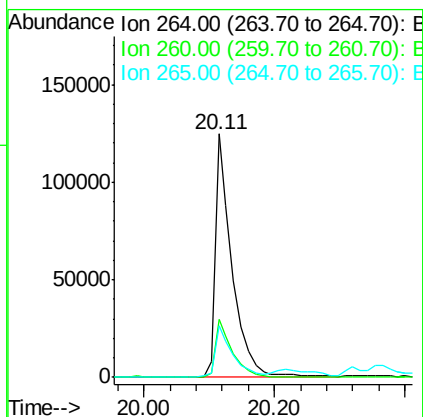
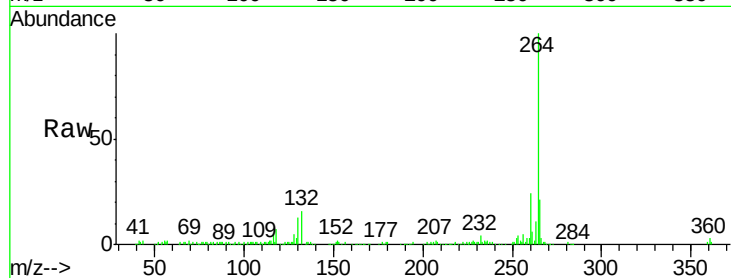
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.11 min Scan# 1621
Delta R.T. -0.00 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	21.3	17.3	25.9

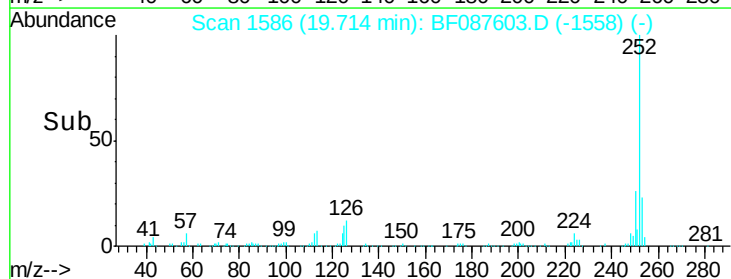
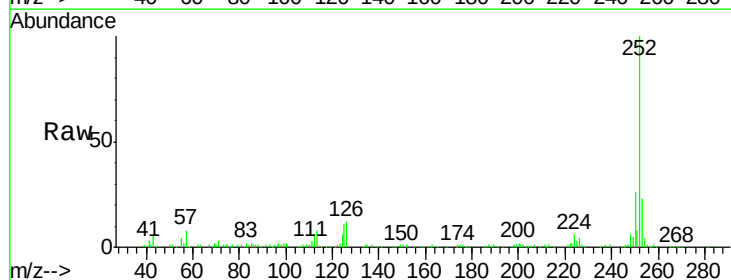
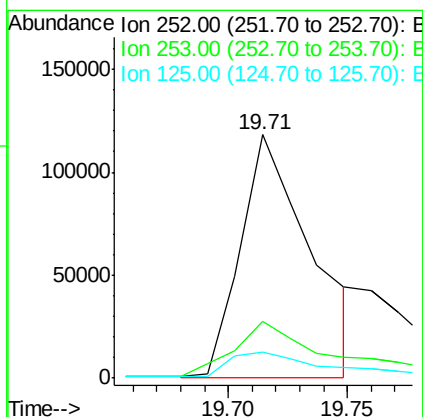
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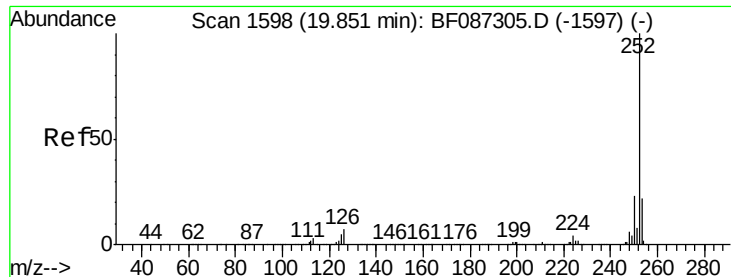
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6/1/2016 6:34:22 PM



#87
Benzo(b)fluoranthene
Concen: 16.85 ng m
RT: 19.71 min Scan# 1586
Delta R.T. 0.02 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	10.7	11.4	17.0





#88

Benzo(k)fluoranthene

Concen: 6.23 ng/mL

RT: 19.75 min Scan# 1589

Delta R.T. 0.02 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA_F

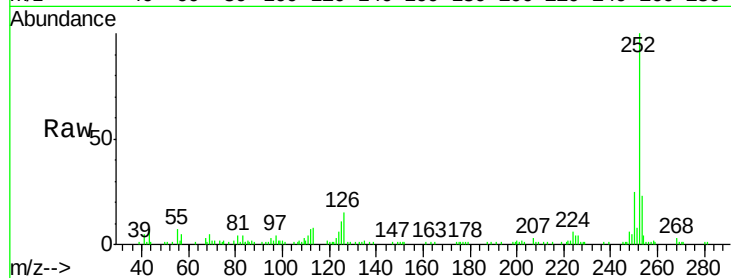
ClientSampleId :

TA-1304-(0-4)DL

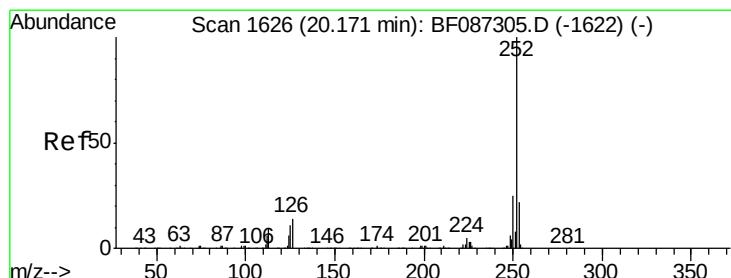
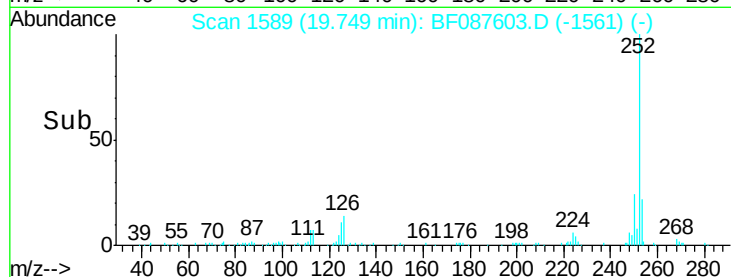
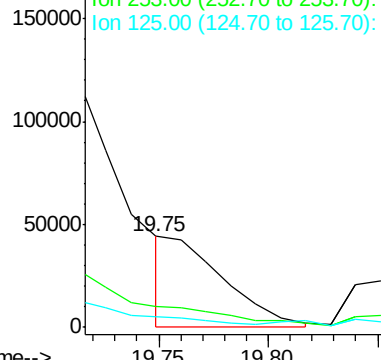
Tot Ion:	252	Resp:	77365
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.8	26.6
125	11.4	9.1	13.7

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6/1/2016 6:34:22 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 12.32 ng/mL

RT: 20.07 min Scan# 1617

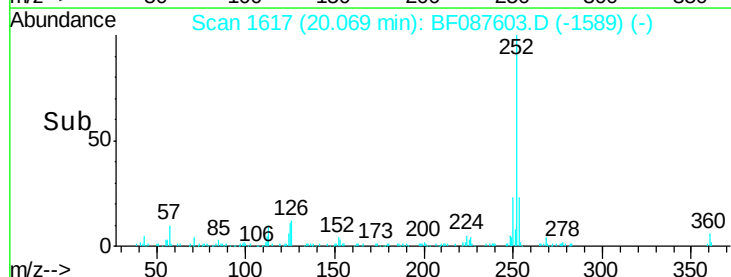
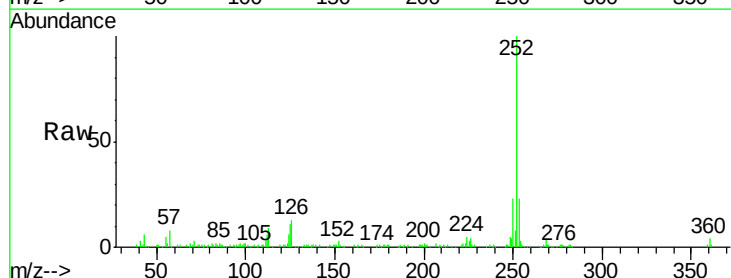
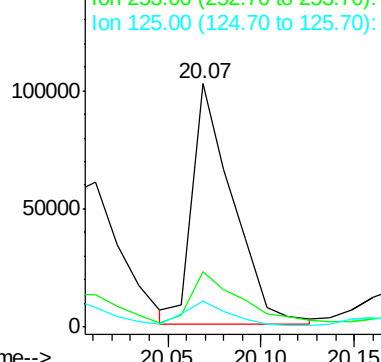
Delta R.T. 0.02 min

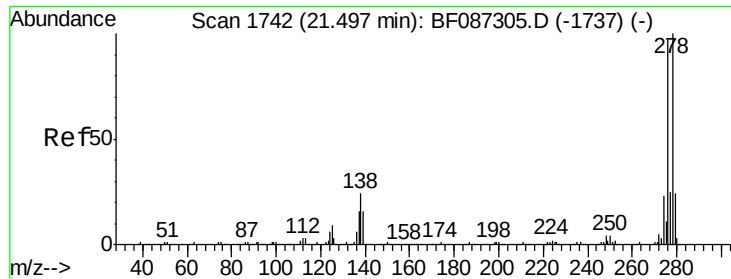
Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion:	252	Resp:	153695
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.2	25.8
125	10.9	9.0	13.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





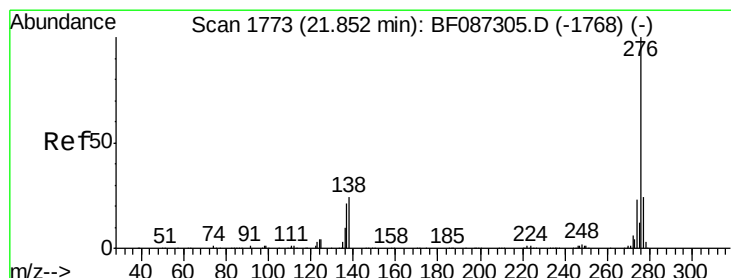
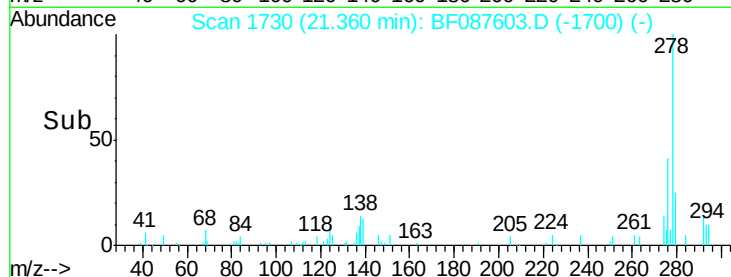
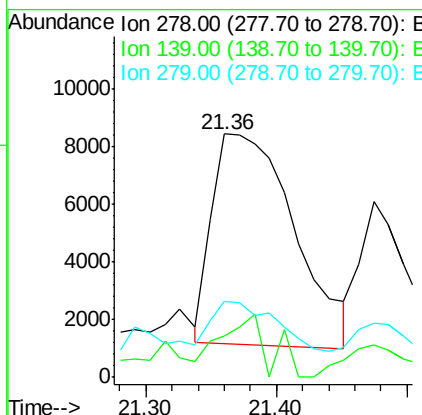
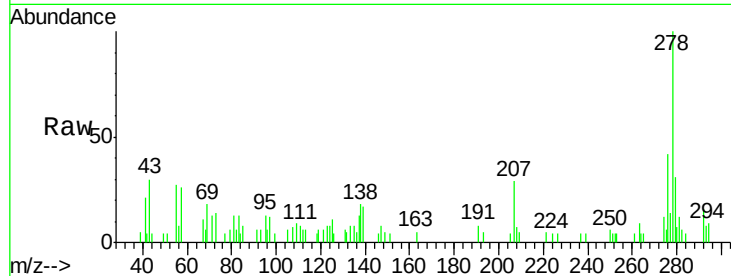
#90
Dibenzo(a,h)anthracene
Concen: 3.02 ng/mL
RT: 21.36 min Scan# 1730
Delta R.T. 0.05 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.2	16.6	24.8
279	31.3	19.6	29.4

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6/1/2016 6:34:22 PM



#91
Benzo(g,h,i)perylene
Concen: 10.82 ng/mL
RT: 21.74 min Scan# 1763
Delta R.T. 0.06 min
Lab File: BF087603.D
Acq: 1 Jun 2016 3:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.6	29.4
138	23.3	23.6	35.4

