

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101332.D
 Acq On : 12 Dec 2017 16:22
 Operator : SJ/JU
 Sample : I6675-05 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-121117-B

Manual Integrations
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Quant Time: Dec 13 02:22:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	49437	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	194276	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	86219	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	141810	20.00	ng	0.00
75) Chrysene-d12	14.01	240	112812	20.00	ng	0.00
86) Perylene-d12	15.49	264	92635	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	204158	68.24	ng	0.00
7) Phenol-d6	6.46	99	243260	66.97	ng	0.00
23) Nitrobenzene-d5	7.39	82	147303	45.23	ng	-0.01
41) 2,4,6-Tribromophenol	10.66	330	56045	54.11	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	288044	45.71	ng	0.00
78) Terphenyl-d14	12.94	244	222369	43.11	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	47204	4.930	ng	98
37) 2-Methylnaphthalene	8.82	142	29060	4.467	ng	96
48) Acenaphthylene	9.72	152	45132	4.895	ng	98
49) Dimethylphthalate	9.57	163	36387	5.233	ng	# 98
51) Acenaphthene	9.89	154	28308	5.128	ng	98
54) Dibenzofuran	10.07	168	51629	6.490	ng	98
57) Fluorene	10.41	166	82986	12.832	ng	97
70) Phenanthrene	11.38	178	443455	56.785	ng	99
71) Anthracene	11.43	178	124876	15.799	ng	98
72) Carbazole	11.59	167	47808	6.620	ng	97
74) Fluoranthene	12.58	202	449401	51.914	ng	96
77) Pylene	12.81	202	388589	49.919	ng	98
80) Benzo(a)anthracene	14.00	228	192908	27.083	ng	96
82) Chrysene	14.03	228	157474	23.805	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	60532	10.293	ng	# 89
87) Benzo(b)fluoranthene	15.06	252	179638m	32.375	ng	
88) Benzo(k)fluoranthene	15.08	252	44967m	8.226	ng	
89) Benzo(a)pyrene	15.43	252	120378	23.864	ng	96
90) Dibenzo(a,h)anthracene	16.98	278	17483	3.931	ng	# 89
91) Benzo(a,h,i)perylene	17.43	276	57877	13.810	ng	# 91

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

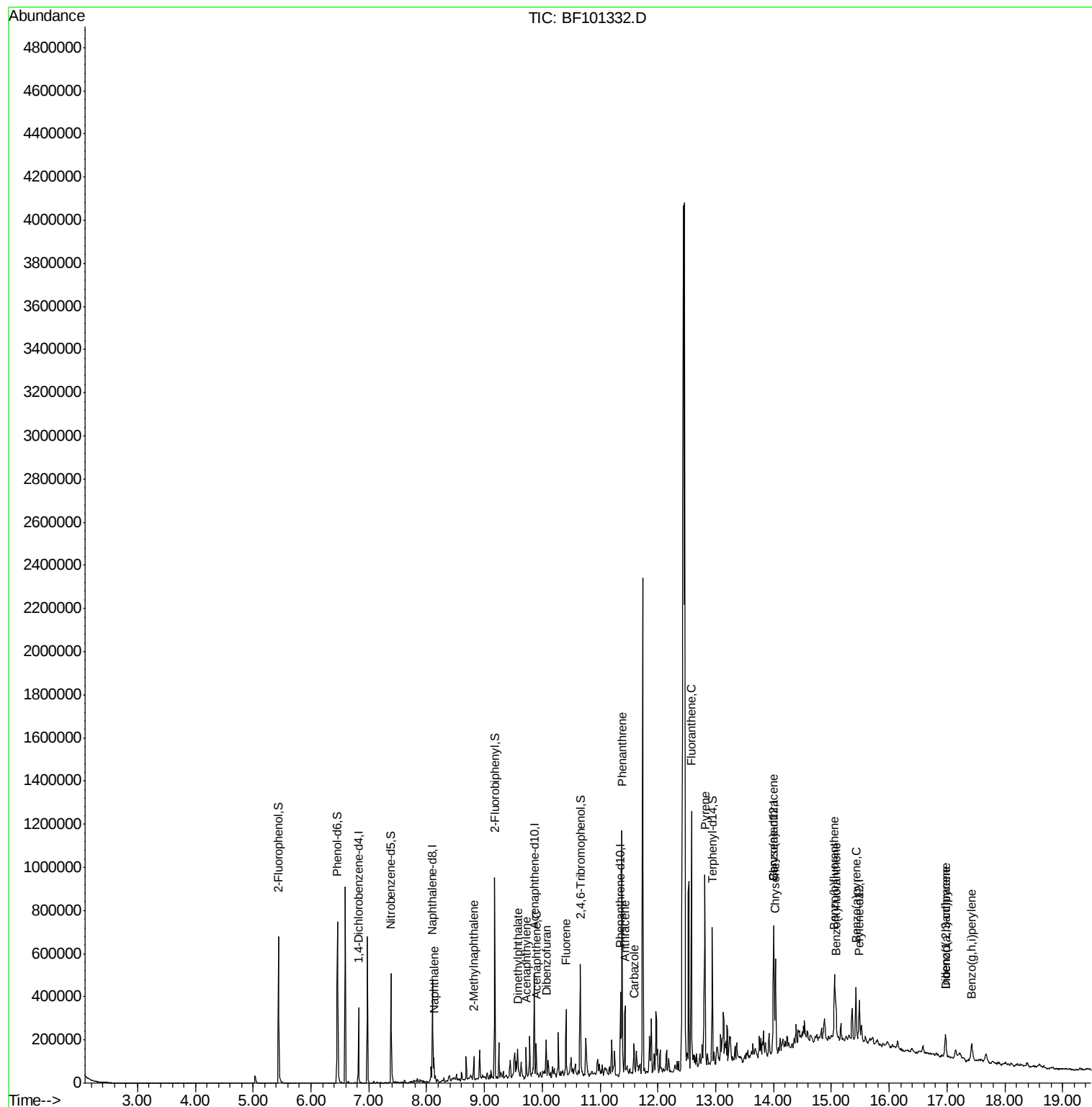
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101332.D
Acq On : 12 Dec 2017 16:22
Operator : SJ/JU
Sample : I6675-05 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

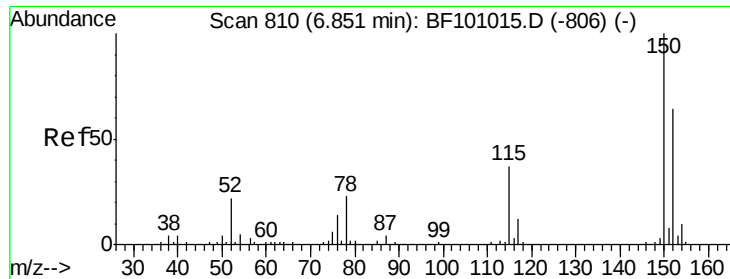
Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

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Quant Time: Dec 13 02:22:32 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

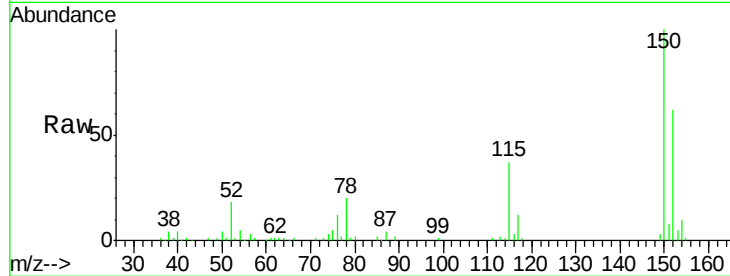
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampled :
SU-03-121117-B

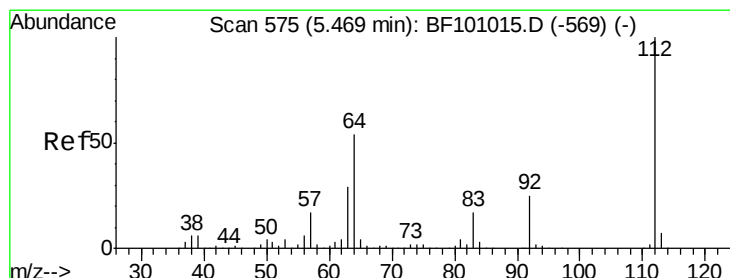
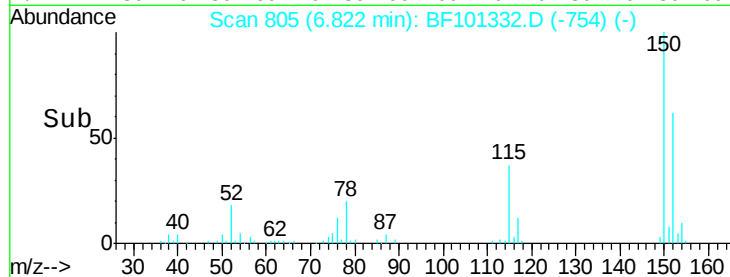
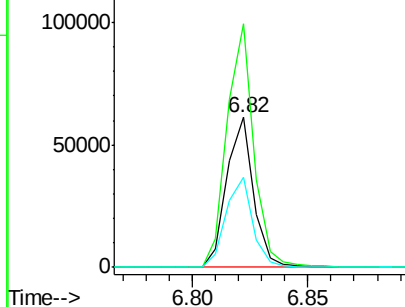
Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	124.6	186.8
115	59.9	50.1	75.1

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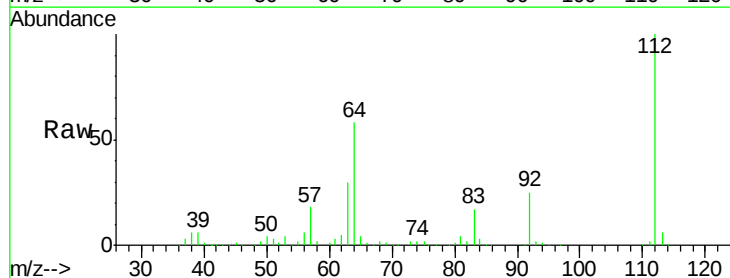
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



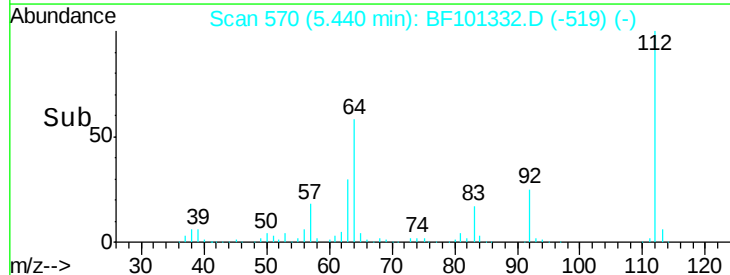
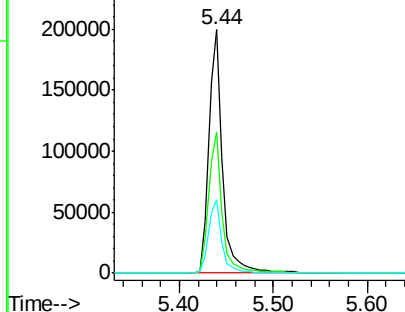
#5

2-Fluorophenol
Concen: 68.240 ng
RT: 5.44 min Scan# 570
Delta R.T. -0.00 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.9	71.9
63	30.0	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 66.972 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

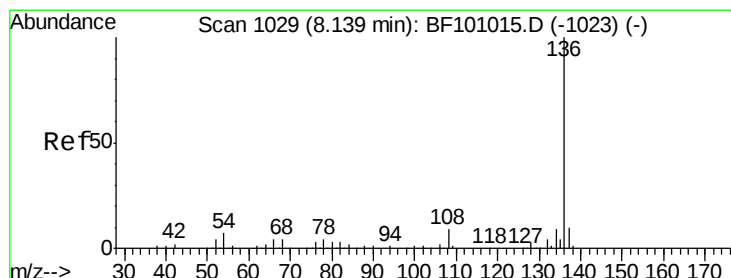
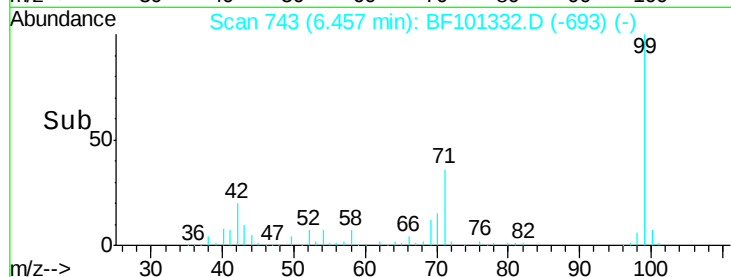
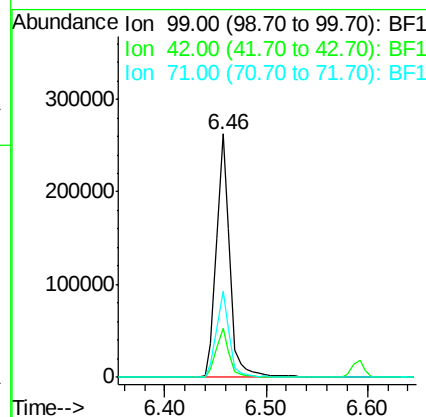
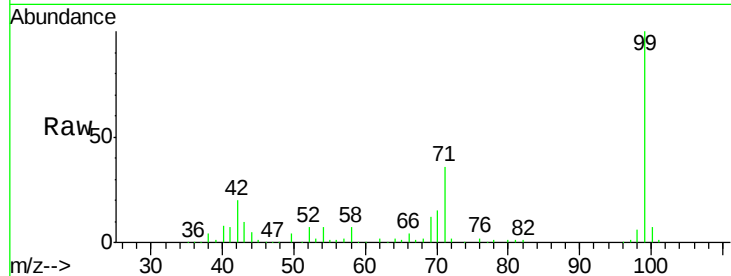
ClientSampled :

SU-03-121117-B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		243260		
42	20.4	14.5	21.7		
71	35.6	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

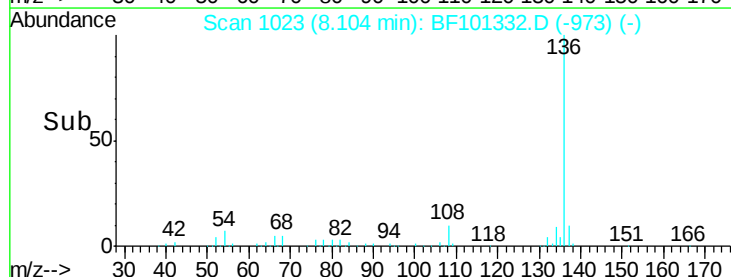
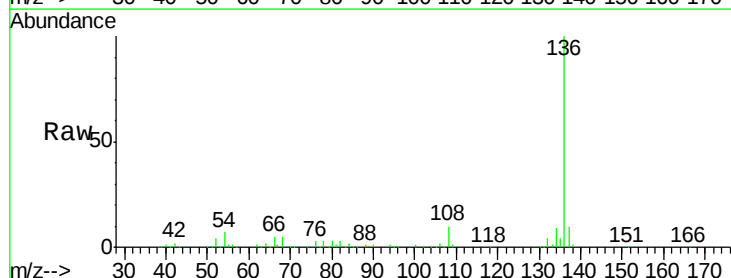
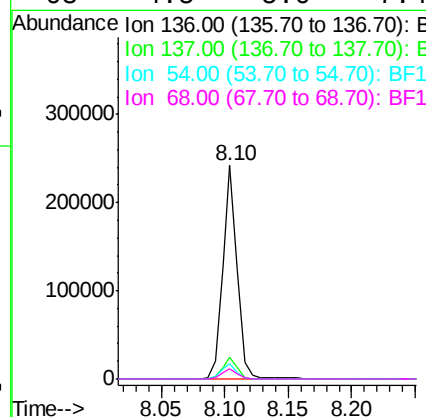
RT: 8.10 min Scan# 1023

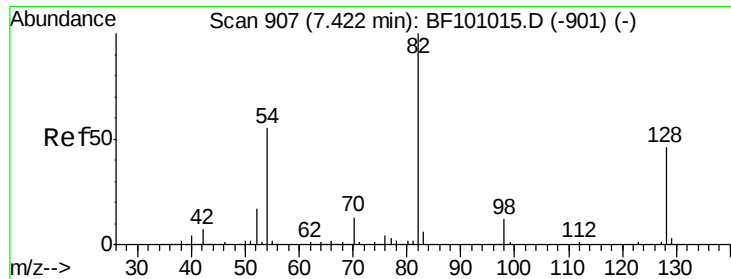
Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		194276		
137	10.5	8.9	13.3		
54	7.4	6.6	9.8		
68	4.5	5.0	7.4#		





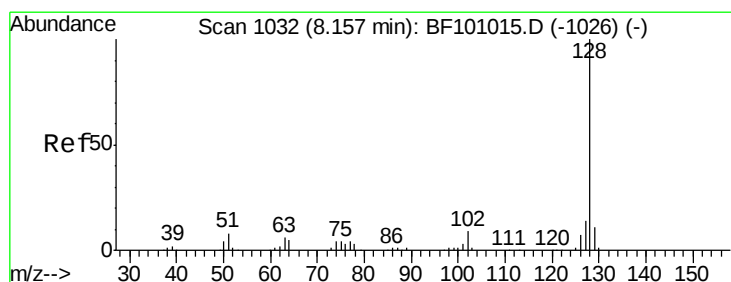
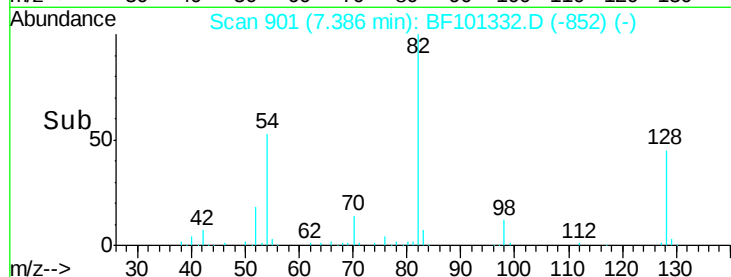
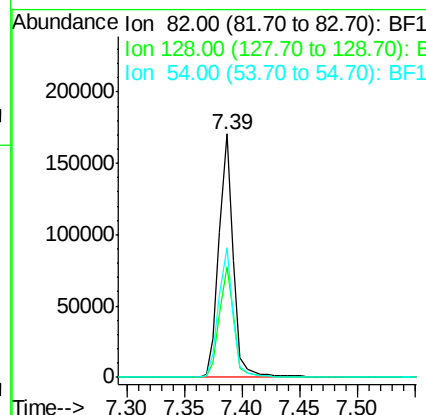
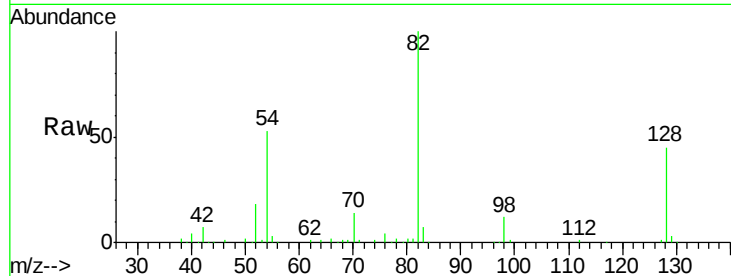
#23
Nitrobenzene-d5
Concen: 45.230 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.1	54.1
54	53.4	41.4	62.2

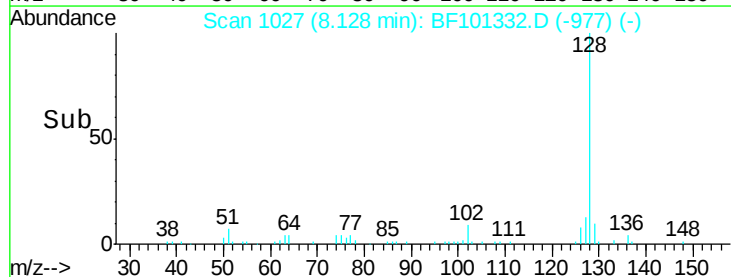
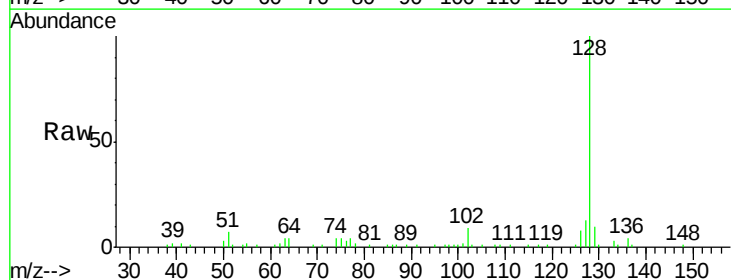
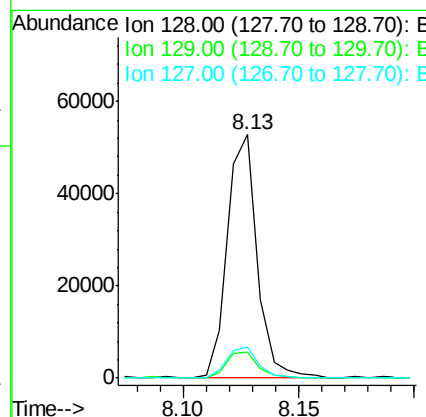
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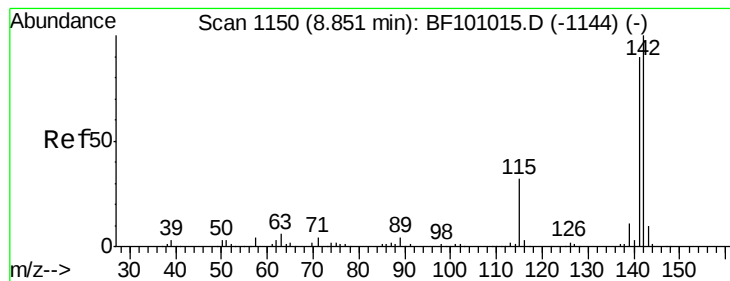
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#31
Naphthalene
Concen: 4.930 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	12.7	10.9	16.3





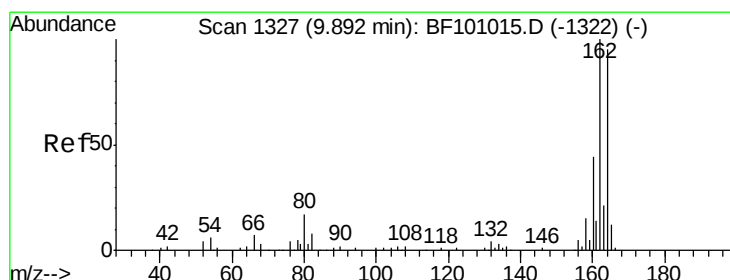
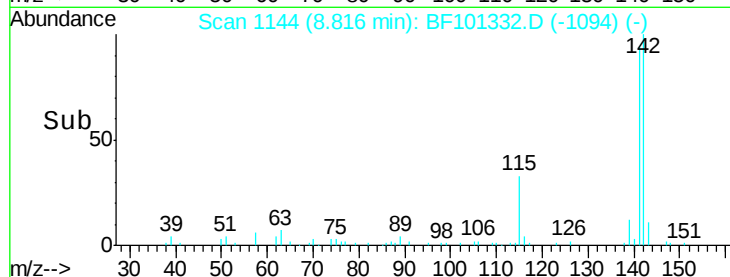
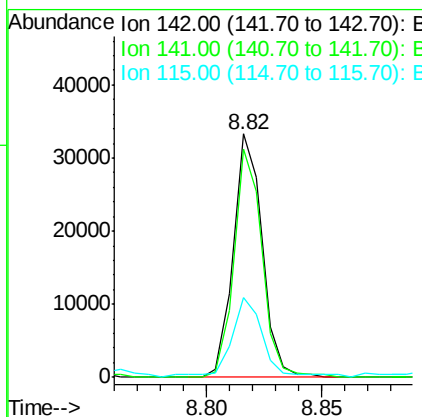
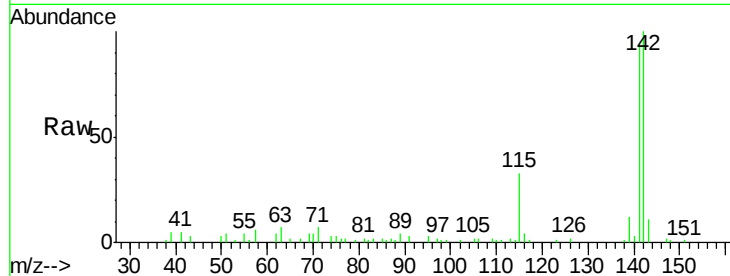
#37
2-Methylnaphthalene
Concen: 4.467 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	93.8	70.8	106.2
115	32.8	26.1	39.1

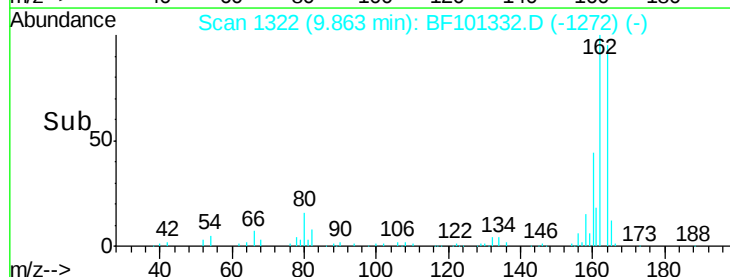
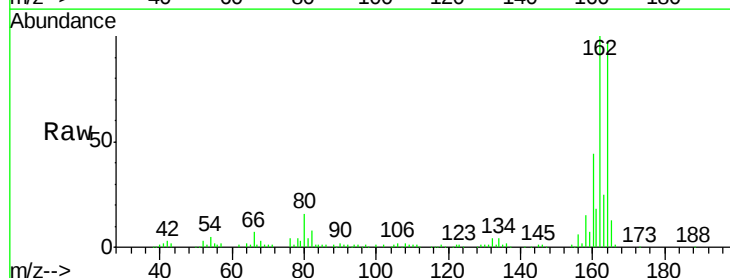
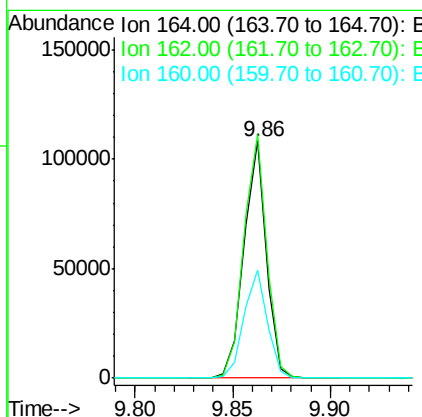
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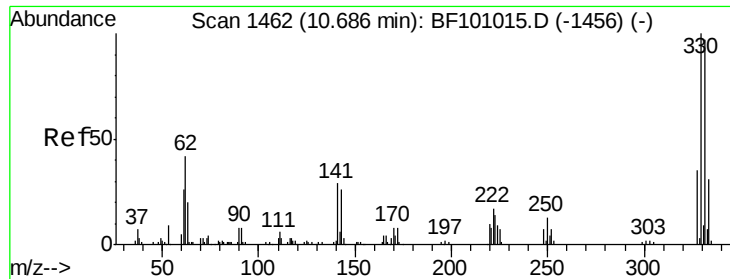
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	86.1	129.1
160	45.4	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 54.111 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

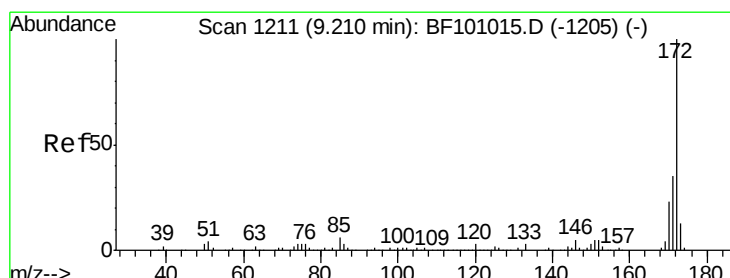
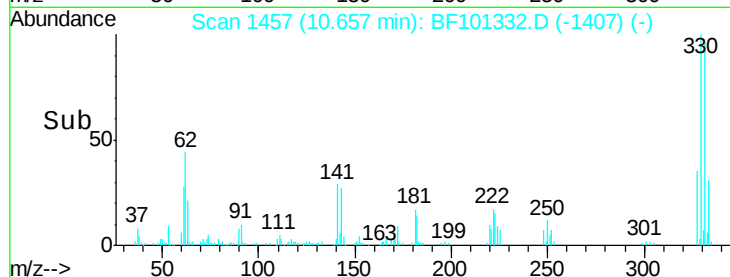
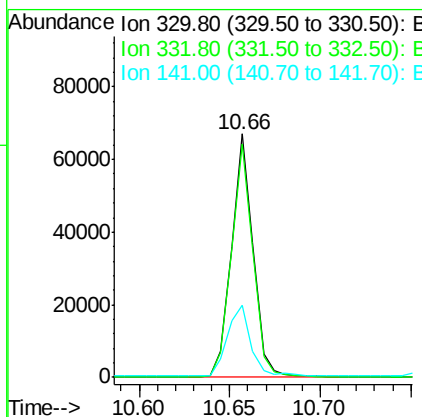
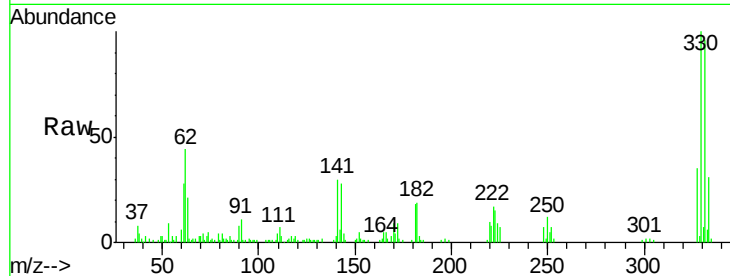
ClientSampleId :

SU-03-121117-B

Tot Ion:	330	Resp:	56045
Ion Ratio	Lower	Upper	
330	100		
332	95.9	77.0	115.6
141	32.1	29.9	44.9

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#44

2-Fluorobiphenyl

Concen: 45.709 ng

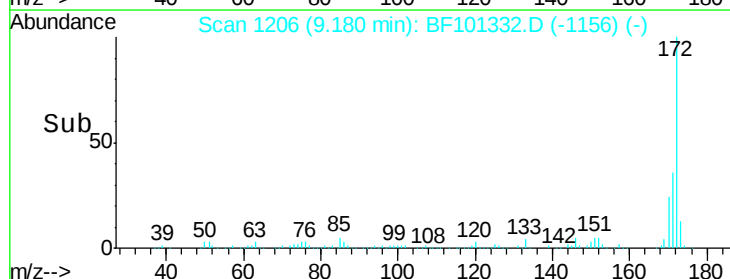
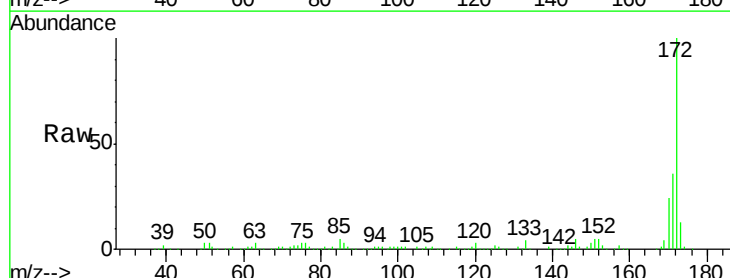
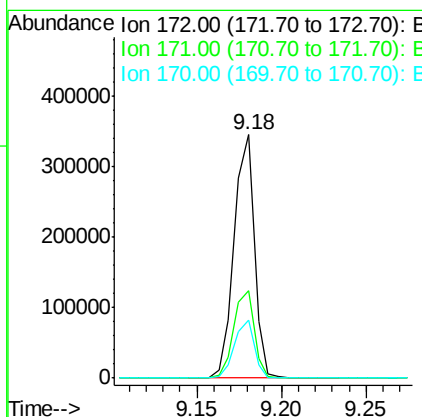
RT: 9.18 min Scan# 1206

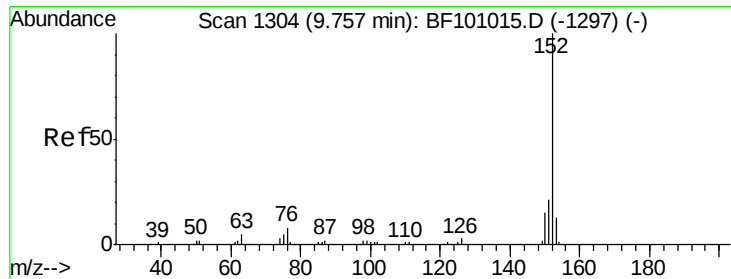
Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion:	172	Resp:	288044
Ion Ratio	Lower	Upper	
172	100		
171	35.9	29.7	44.5
170	24.0	19.6	29.4





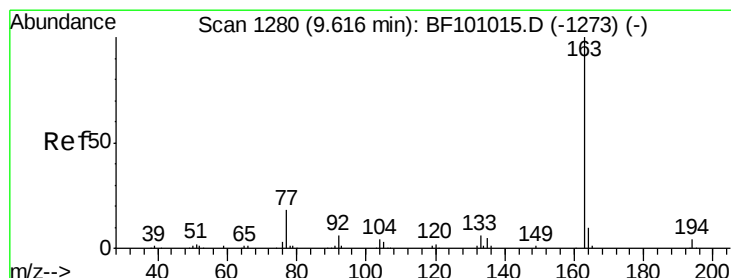
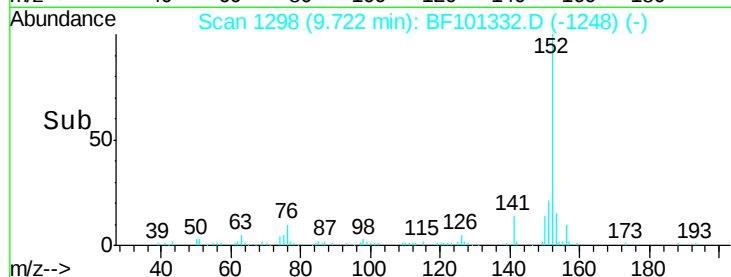
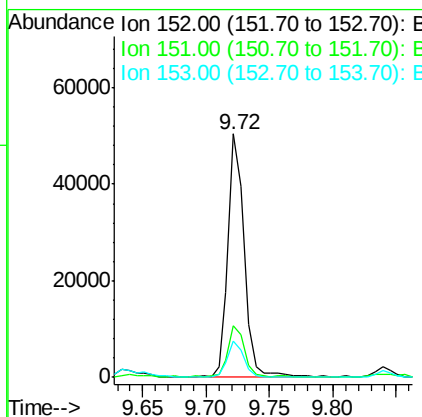
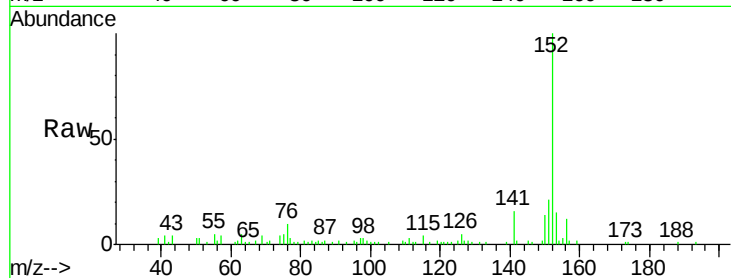
#48
Acenaphthylene
Concen: 4.895 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.3	24.5
153	14.8	10.7	16.1

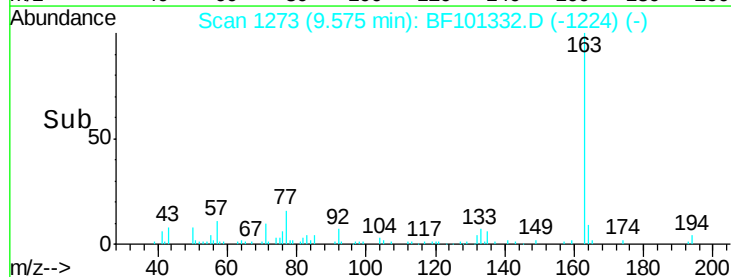
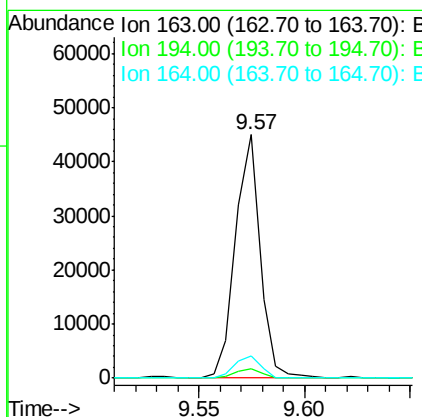
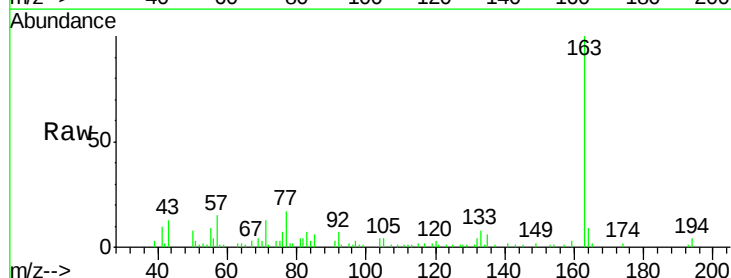
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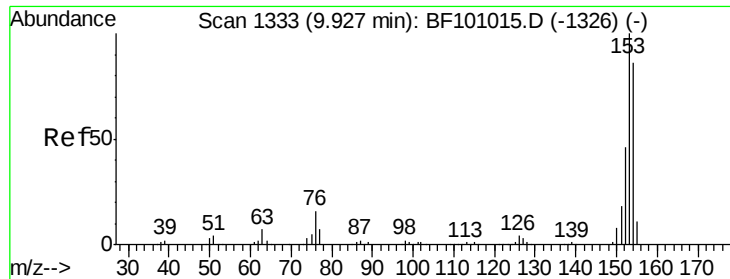
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#49
Dimethylphthalate
Concen: 5.233 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.1	2.7	4.1#
164	9.2	8.2	12.2





#51

Acenaphthene

Concen: 5.128 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

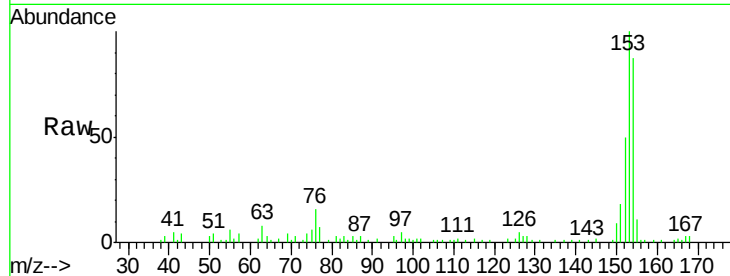
ClientSampled :

SU-03-121117-B

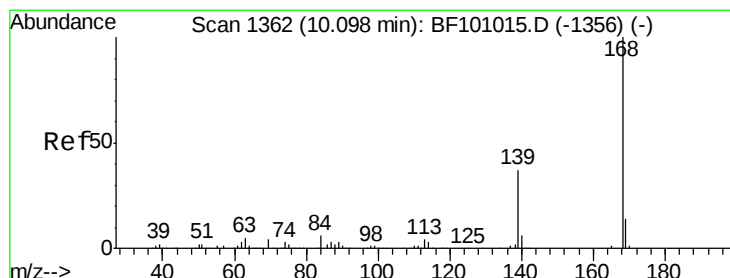
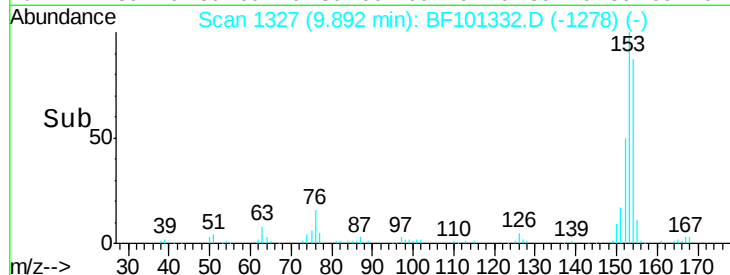
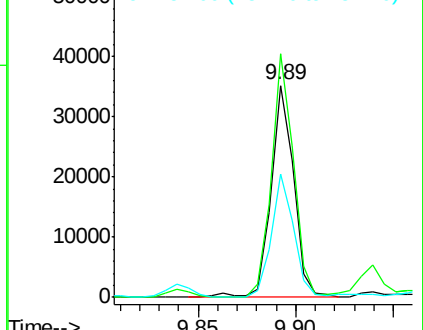
Tot Ion:	154	Resp:	28308
Ion Ratio	Lower	Upper	
154	100		
153	114.7	91.2	136.8
152	57.9	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.490 ng

RT: 10.07 min Scan# 1357

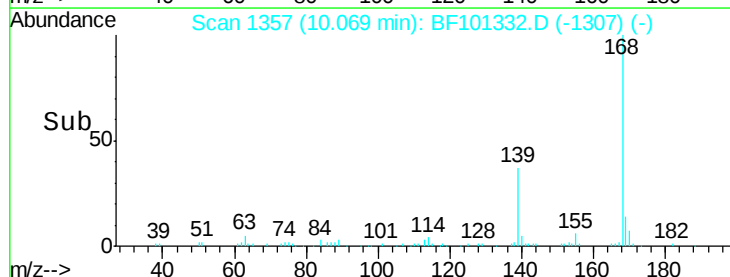
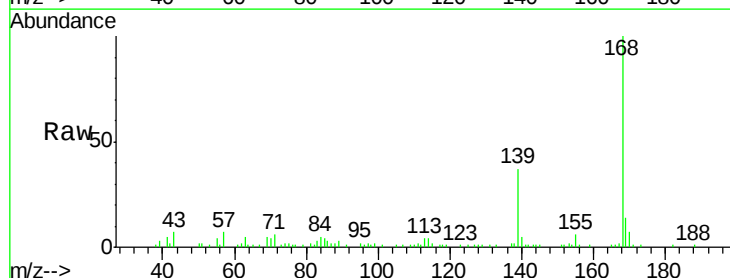
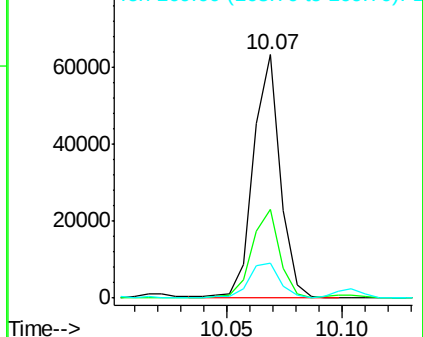
Delta R.T. -0.01 min

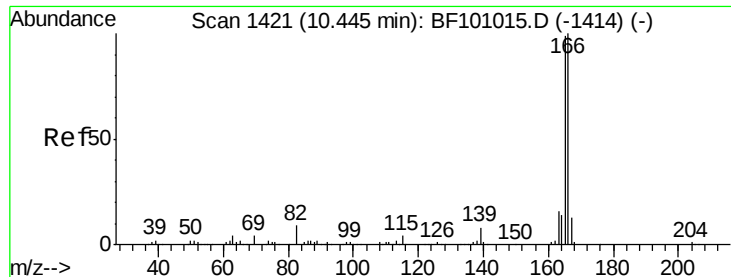
Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion:	168	Resp:	51629
Ion Ratio	Lower	Upper	
168	100		
139	36.5	30.1	45.1
169	14.2	10.9	16.3

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





#57

Fluorene

Concen: 12.832 ng

RT: 10.41 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

ClientSampleId :

SU-03-121117-B

Tot Ion:166 Resp: 82986

Ion Ratio Lower Upper

166 100

165 96.7 79.8 119.8

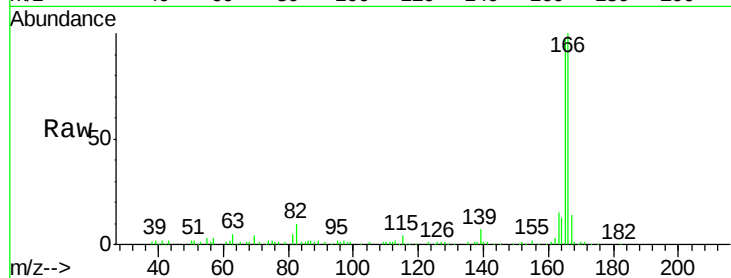
167 13.7 10.6 16.0

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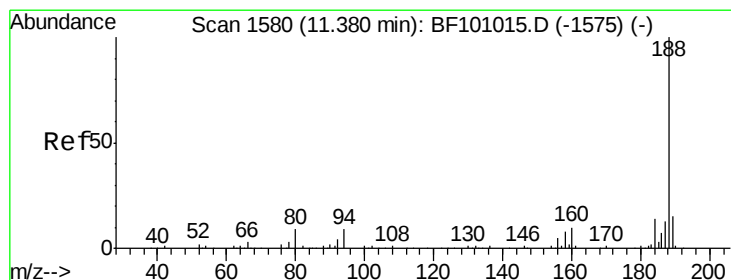
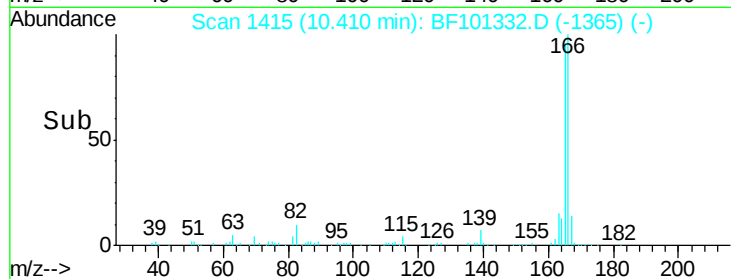
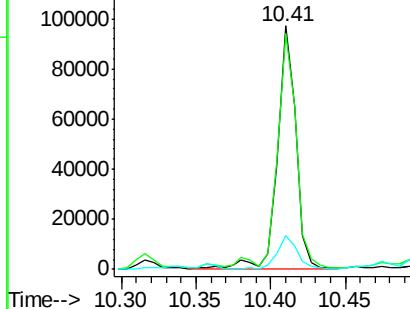
12/13/2017 12:07:33 PM



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: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.00 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

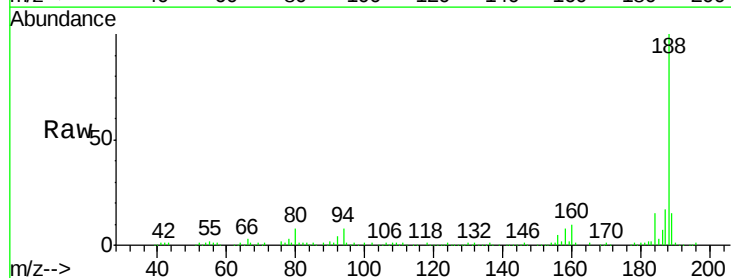
Tgt Ion:188 Resp: 141810

Ion Ratio Lower Upper

188 100

94 7.6 8.5 12.7#

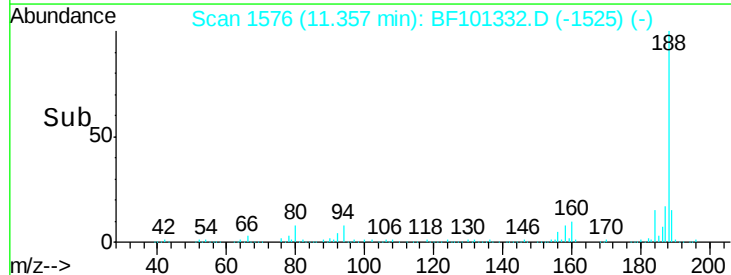
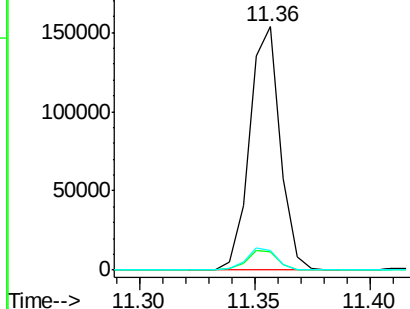
80 8.3 9.2 13.8#

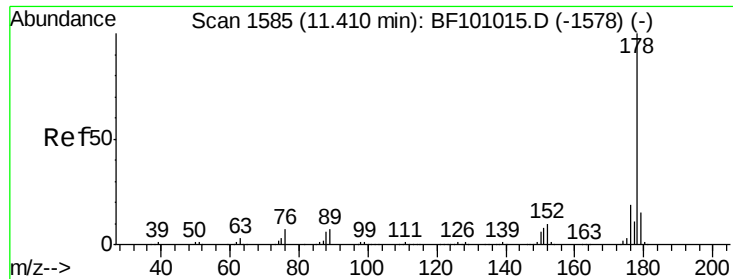


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





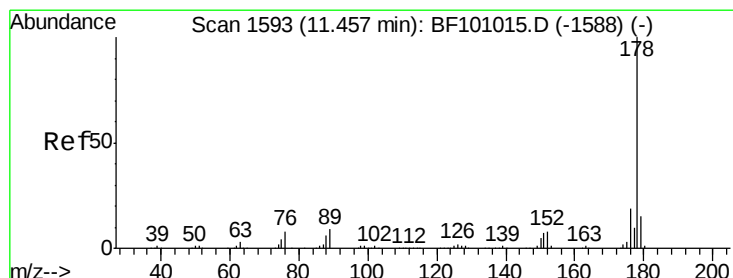
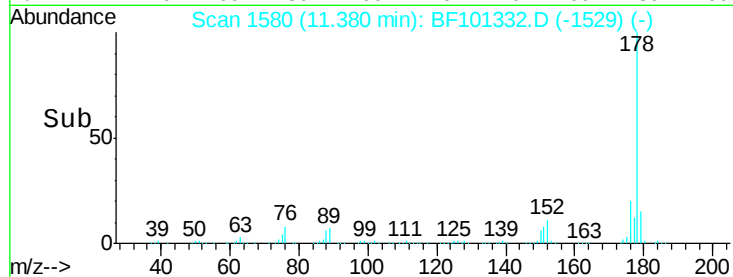
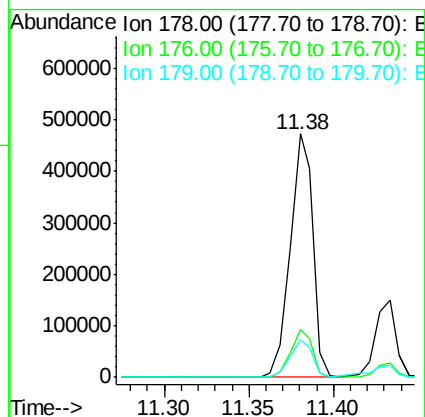
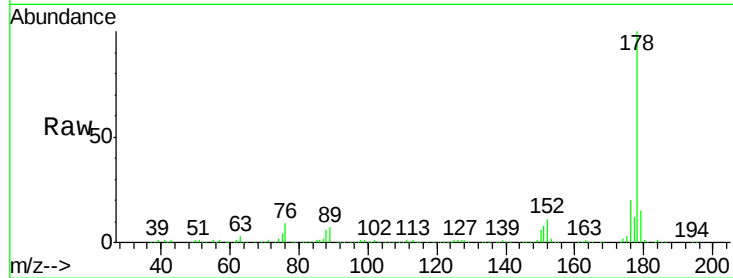
#70
Phenanthrene
Concen: 56.785 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.3	13.0	19.6

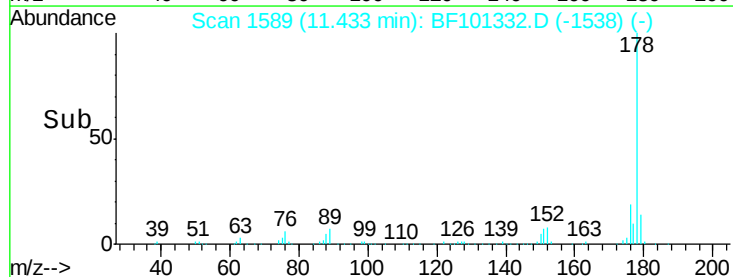
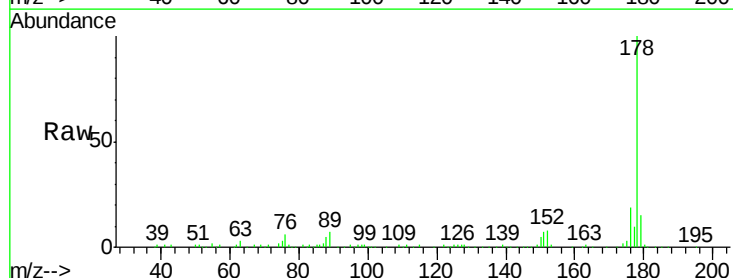
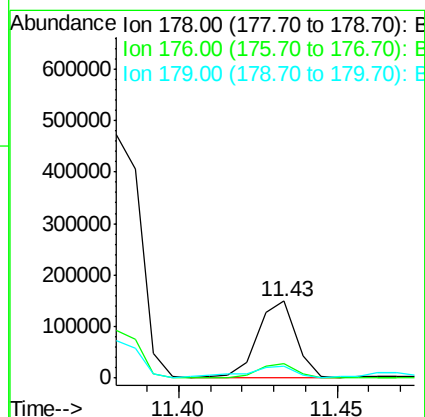
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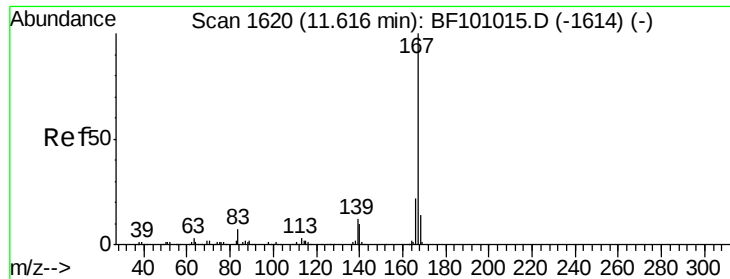
Sohil
12/13/2017 12:07:33 PM



#71
Anthracene
Concen: 15.799 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	14.7	12.6	19.0





#72

Carbazole

Concen: 6.620 ng

RT: 11.59 min Scan# 1615

Delta R.T. -0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

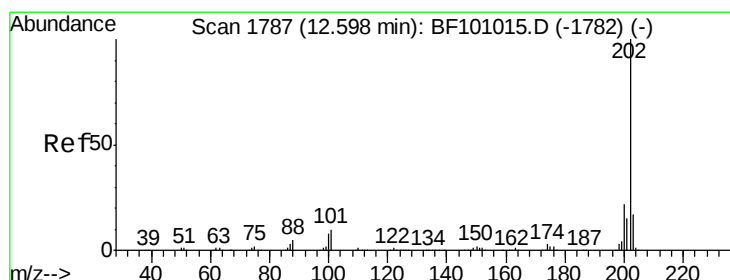
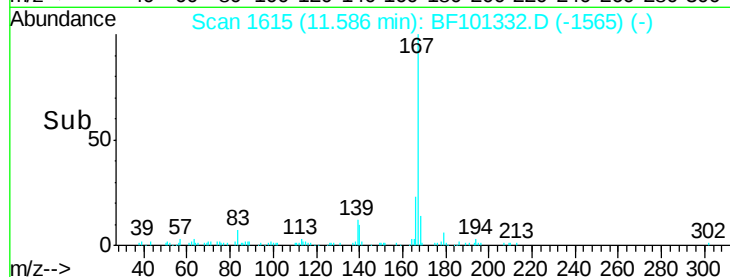
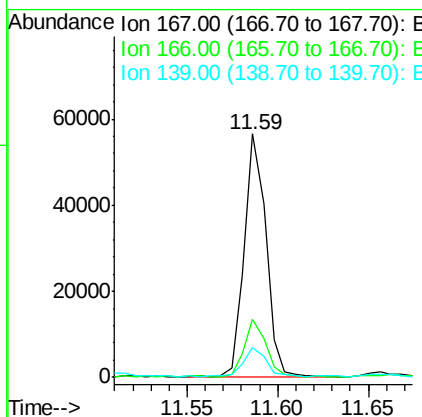
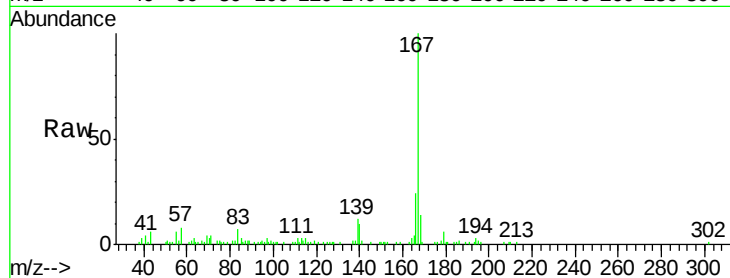
ClientSampleId :

SU-03-121117-B

Tot Ion:	167	Resp:	47808
Ion Ratio	Lower	Upper	
167	100		
166	23.7	17.6	26.4
139	12.4	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 51.914 ng

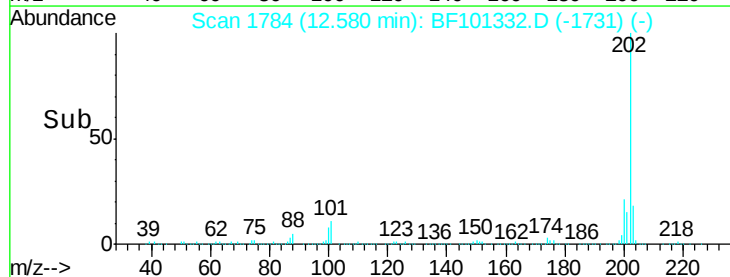
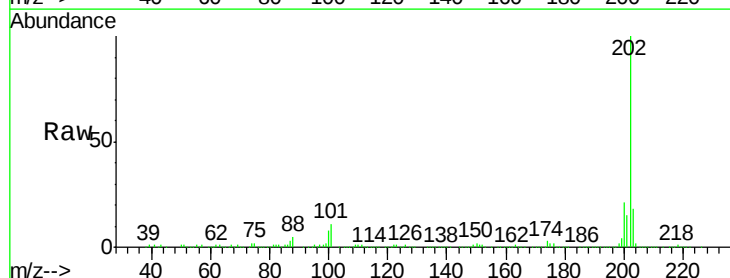
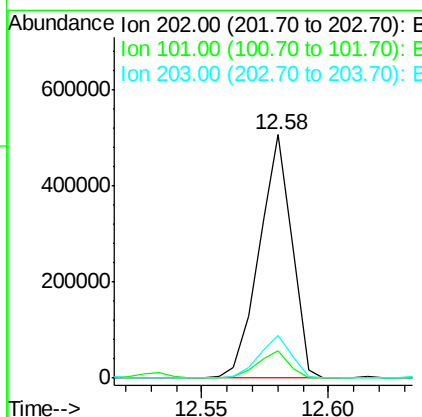
RT: 12.58 min Scan# 1784

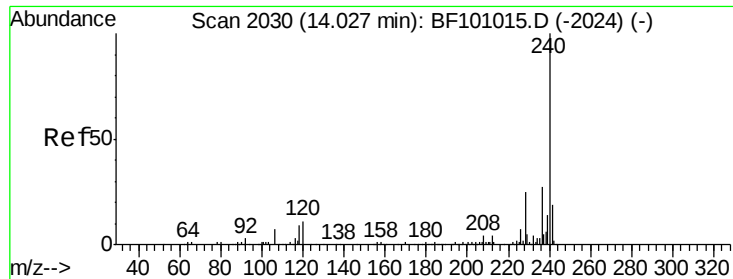
Delta R.T. 0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion:	202	Resp:	449401
Ion Ratio	Lower	Upper	
202	100		
101	11.0	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

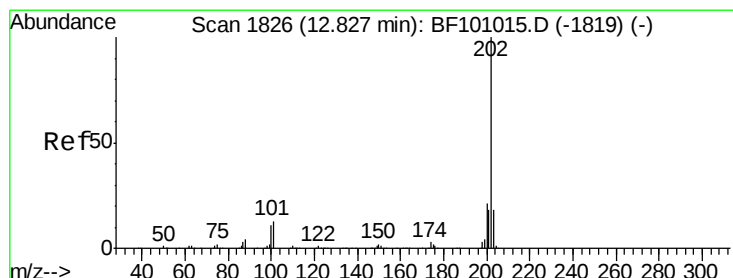
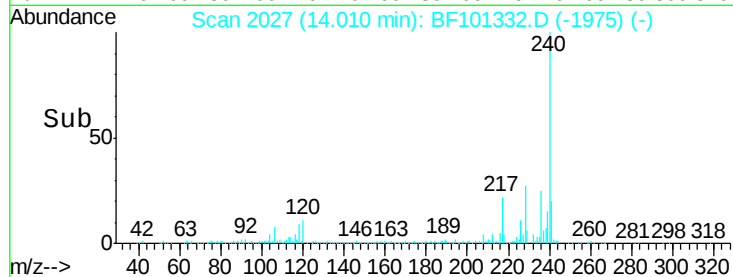
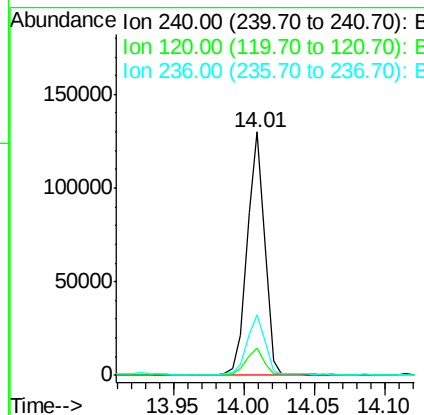
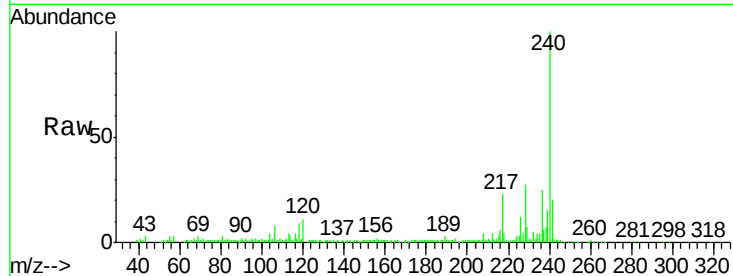
ClientSampleId :

SU-03-121117-B

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.5	14.3
236	24.9	20.7	31.1

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#77

Pyrene

Concen: 49.919 ng

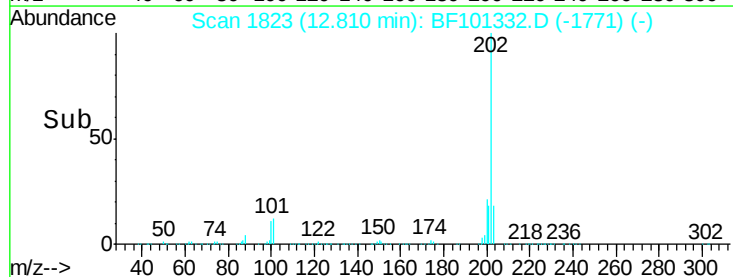
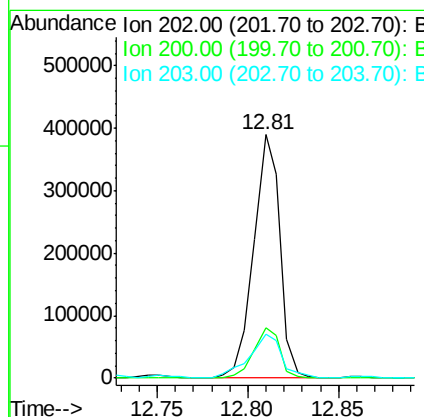
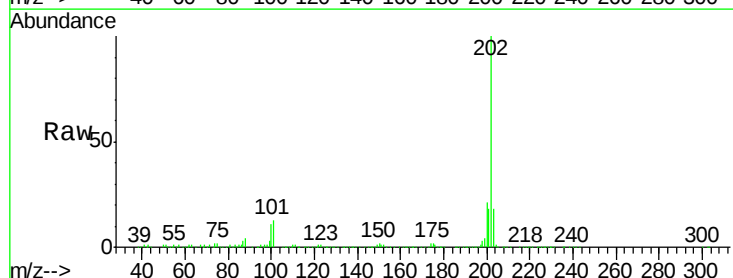
RT: 12.81 min Scan# 1823

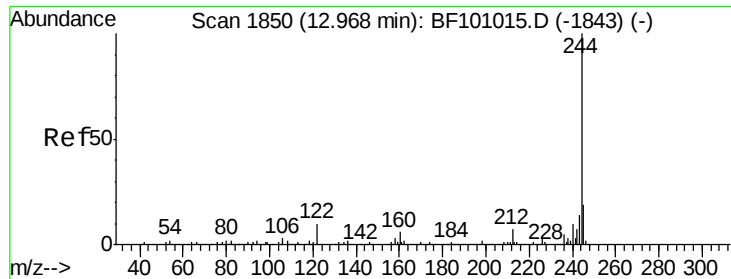
Delta R.T. 0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.4	26.2
203	18.3	14.3	21.5





#78

Terphenyl-d14

Concen: 43.114 ng

RT: 12.94 min Scan# 1846

Delta R.T. 0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

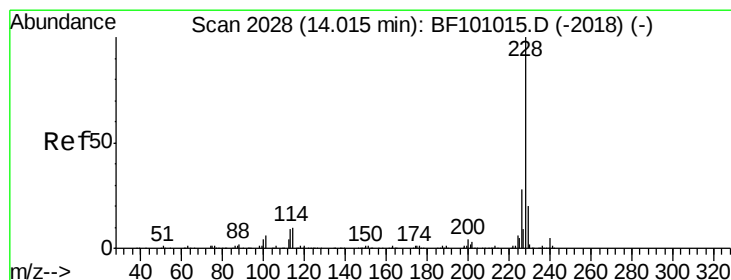
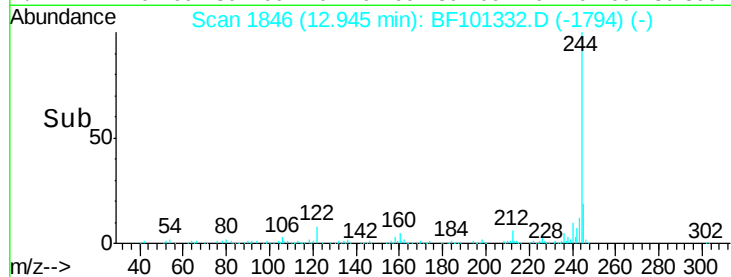
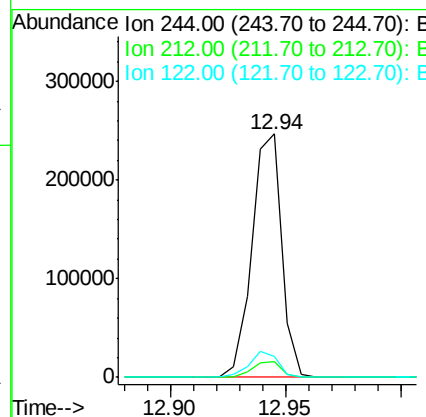
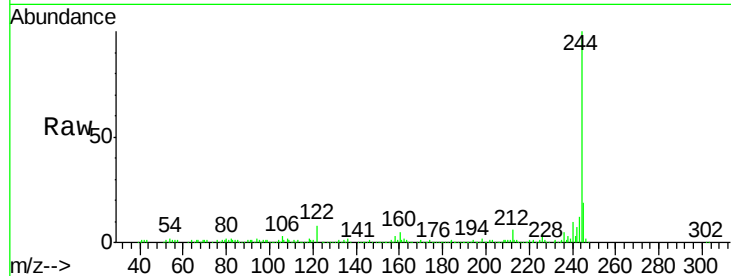
ClientSampleId :

SU-03-121117-B

Tot Ion:	244	Resp:	222369
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.4	8.0
122	8.5	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 27.083 ng

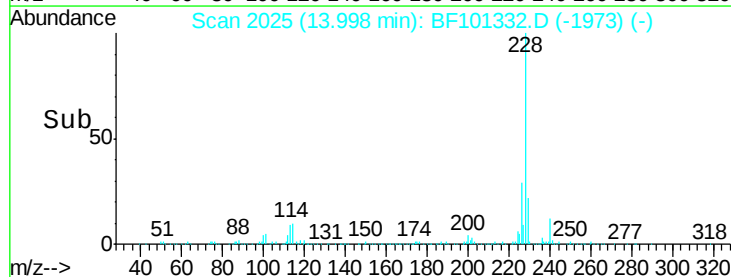
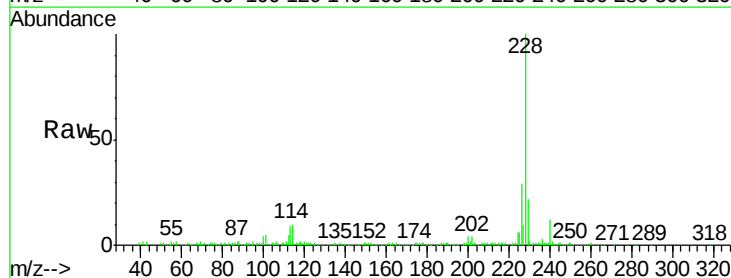
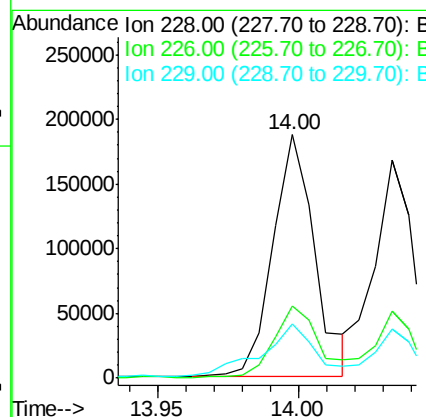
RT: 14.00 min Scan# 2025

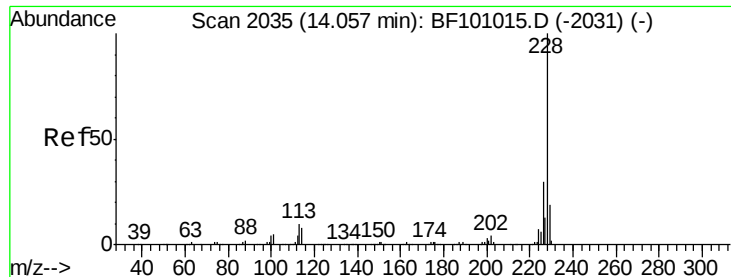
Delta R.T. 0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion:	228	Resp:	192908
Ion Ratio	Lower	Upper	
228	100		
226	29.5	22.6	33.8
229	22.1	15.8	23.6





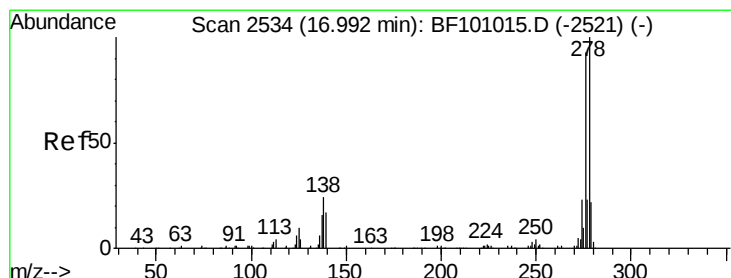
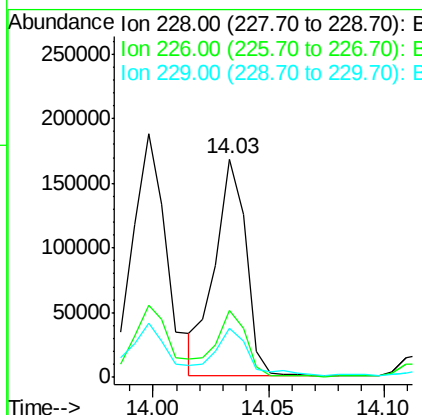
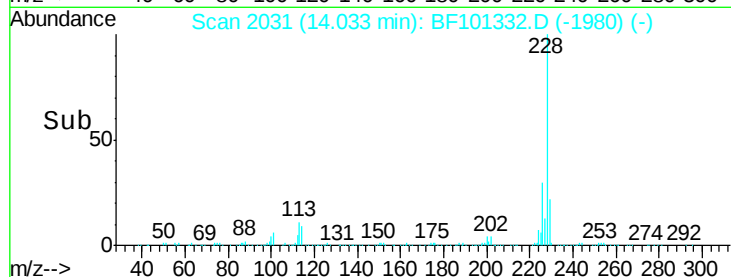
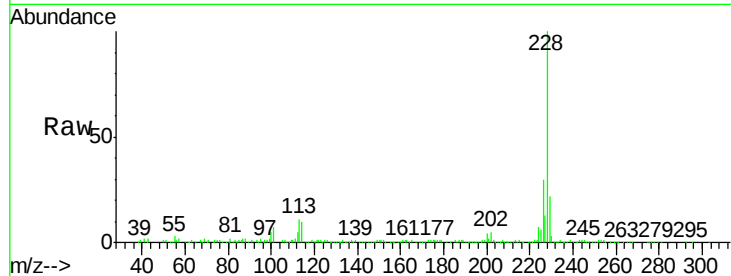
#82
Chrysene
Concen: 23.805 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.00 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

Tot Ion:	228	Resp:	157474
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	22.4	16.2	24.4

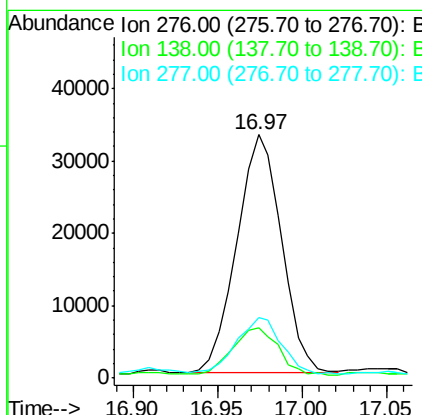
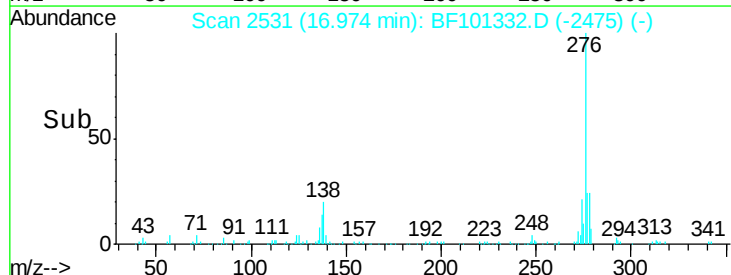
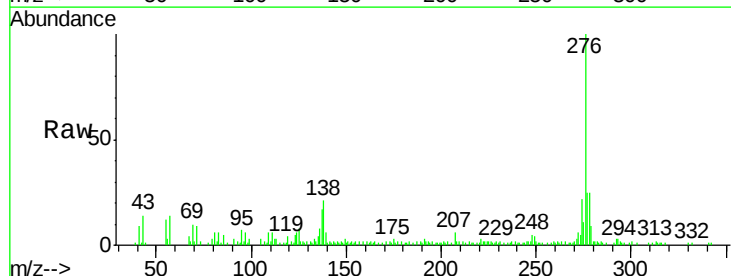
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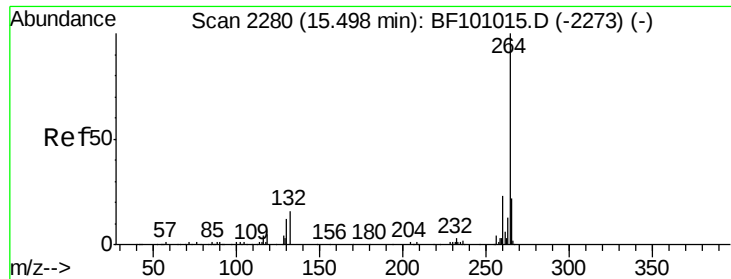
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 10.293 ng
RT: 16.97 min Scan# 2531
Delta R.T. 0.03 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Tgt Ion:	276	Resp:	60532
Ion Ratio	Lower	Upper	
276	100		
138	21.6	25.0	37.6#
277	24.0	20.1	30.1





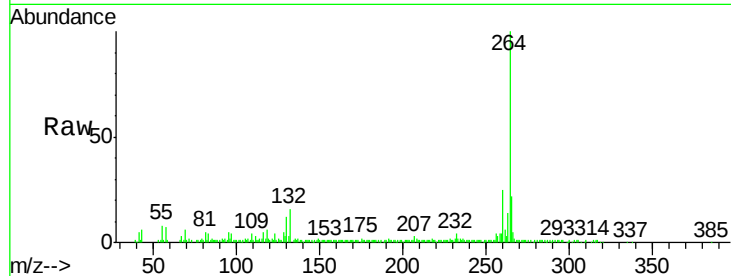
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

Instrument :
BNA_F
ClientSampleId :
SU-03-121117-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	22.3	17.5	26.3

Manual Integrations
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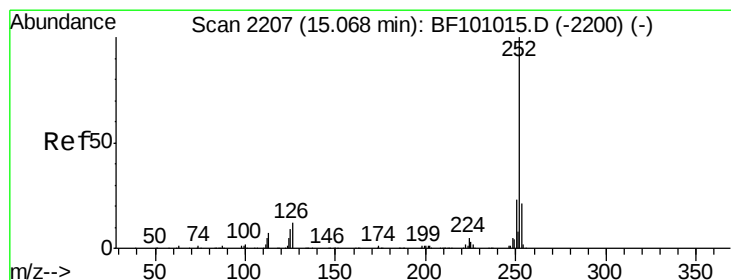
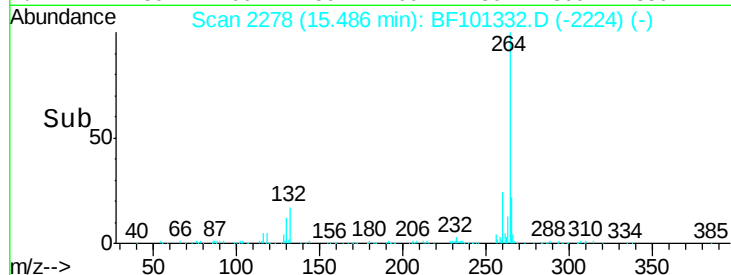
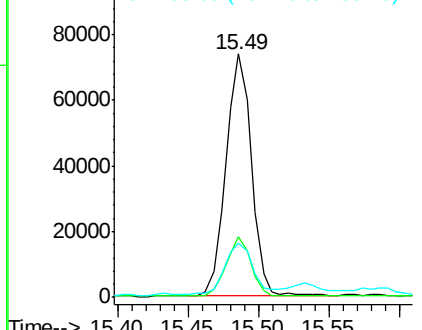


Abundance

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: 32.375 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF101332.D
Acq: 12 Dec 2017 16:22

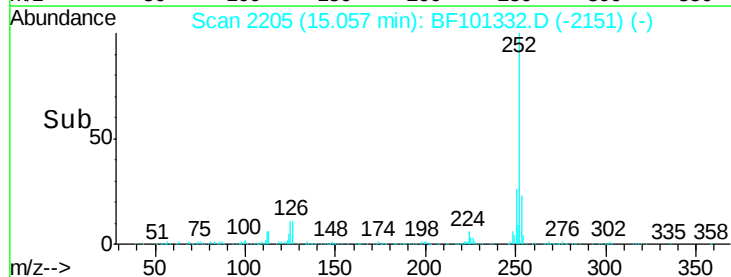
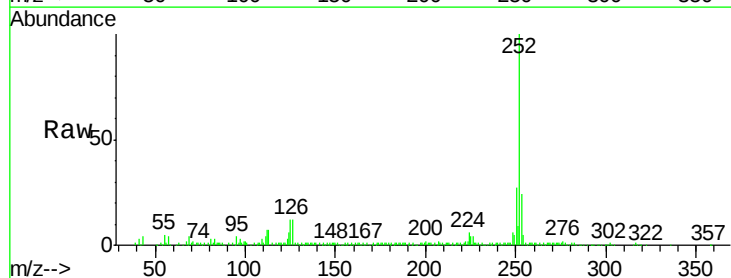
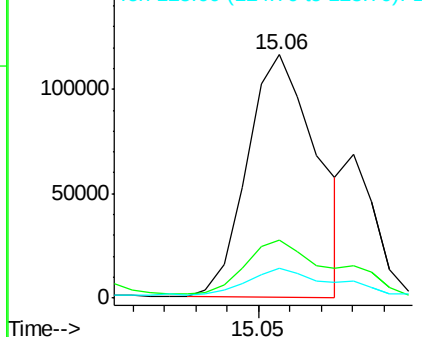
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.0	25.6
125	12.0	9.0	13.6

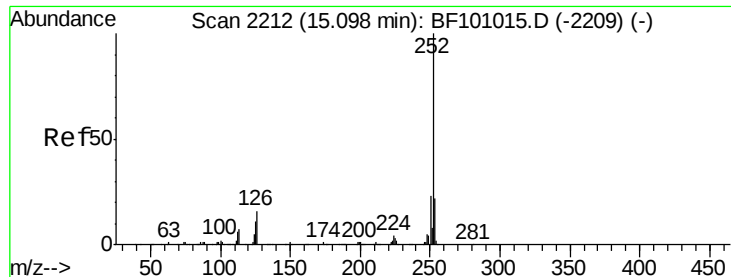
Abundance

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





#88

Benzo(k)fluoranthene

Concen: 8.226 ng/mL

RT: 15.08 min Scan# 2209

Delta R.T. 0.01 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

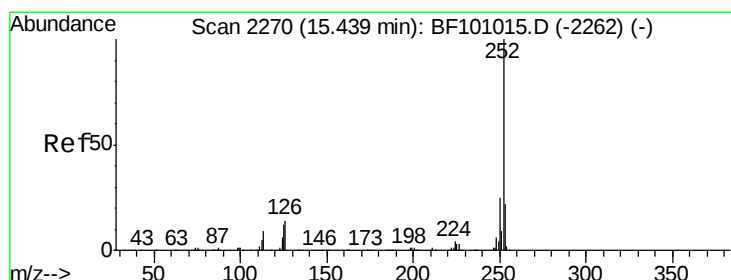
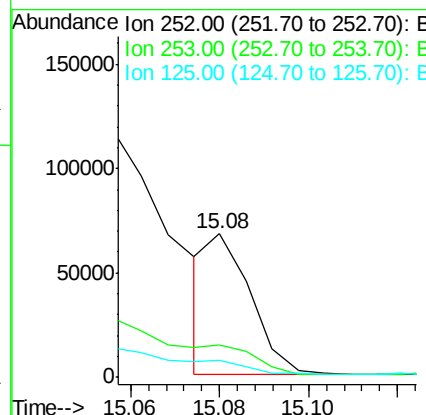
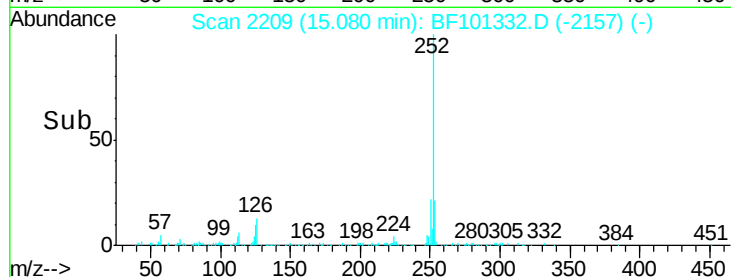
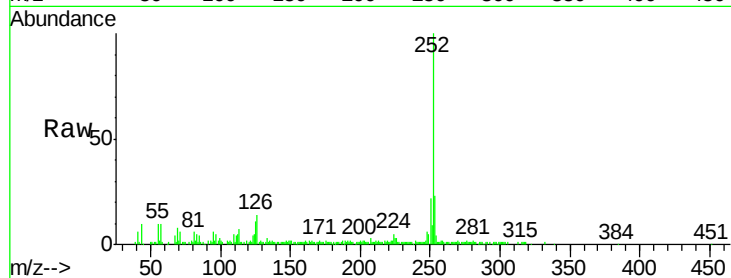
ClientSampled :

SU-03-121117-B

Tot Ion:	252	Resp:	44967
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.9	26.9
125	11.5	10.2	15.2

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 23.864 ng/mL

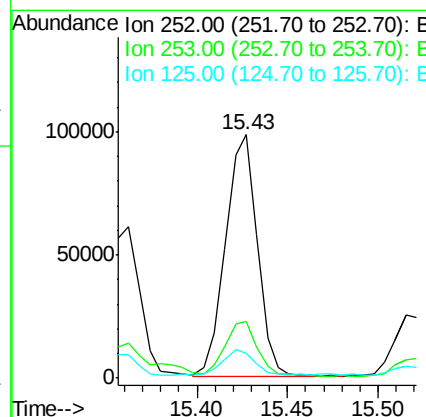
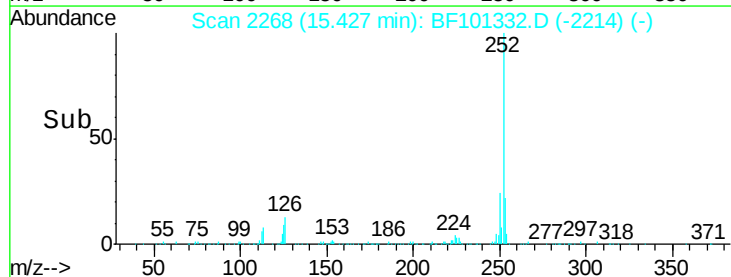
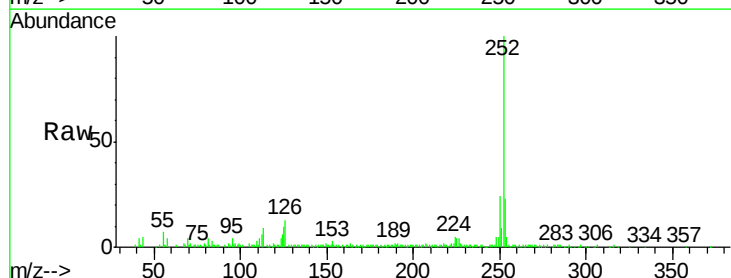
RT: 15.43 min Scan# 2268

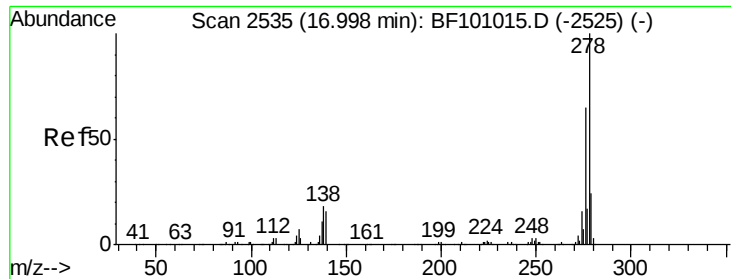
Delta R.T. 0.02 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion:	252	Resp:	120378
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.1	25.7
125	10.2	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 3.931 ng

RT: 16.98 min Scan# 2532

Delta R.T. 0.02 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Instrument :

BNA_F

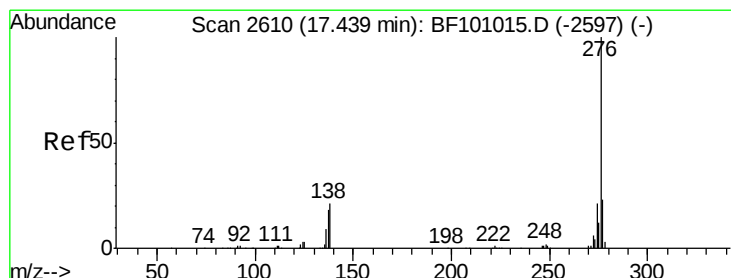
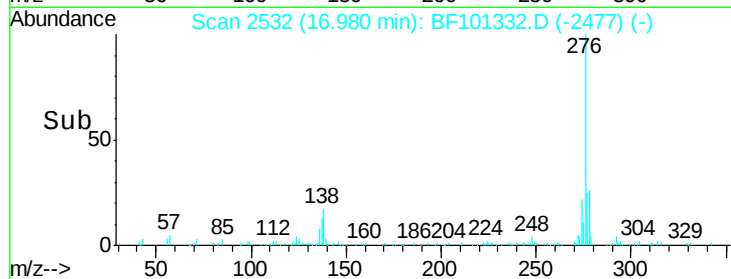
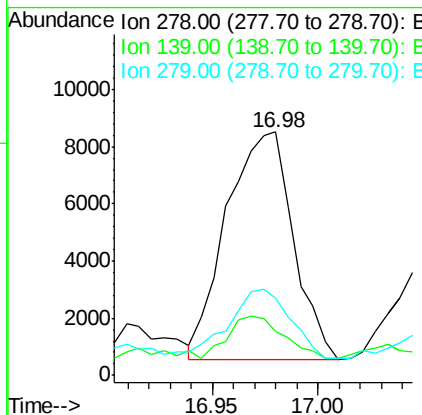
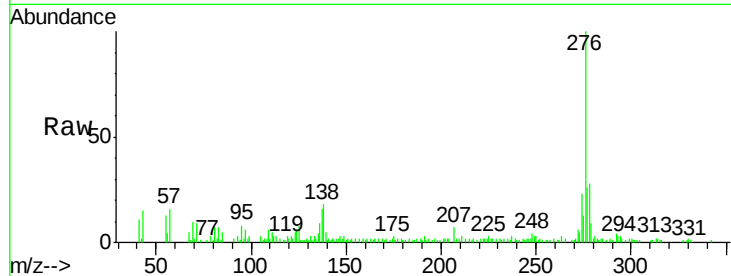
ClientSampleId :

SU-03-121117-B

Tot Ion:	278	Resp:	17483
Ion Ratio	Lower	Upper	
278	100		
139	18.0	15.9	23.9
279	31.5	19.0	28.4#

Manual Integrations
APPROVED

Sohil
12/13/2017 12:07:33 PM



#91

Benzo(g,h,i)perylene

Concen: 13.810 ng

RT: 17.43 min Scan# 2608

Delta R.T. 0.04 min

Lab File: BF101332.D

Acq: 12 Dec 2017 16:22

Tgt Ion:	276	Resp:	57877
Ion Ratio	Lower	Upper	
276	100		
277	27.3	17.9	26.9#
138	23.0	21.8	32.8

