

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
 Data File : BF111333.D
 Acq On : 12 Dec 2018 20:38
 Operator : JU/SJ
 Sample : J6214-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Manual Integrations
 APPROVED

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 12/13/2018 6:06:40 PM

Quant Time: Dec 13 03:45:38 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 12 13:16:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	300483	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	1119093	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	433614	20.00	ng	0.00
64) Phenanthrene-d10	11.31	188	645613	20.00	ng	0.00
76) Chrysene-d12	13.95	240	423909	20.00	ng	0.00
87) Perylene-d12	15.39	264	342323	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	1735307	97.66	ng	0.00
7) Phenol-d6	6.43	99	2170149	90.58	ng	0.00
23) Nitrobenzene-d5	7.35	82	1314645	66.21	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	286884	75.05	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	1893801	70.12	ng	0.00
79) Terphenyl-d14	12.90	244	1258646	65.35	ng	0.00
Target Compounds						
10) Phenol	6.44	94	142795	5.262	ng	93
31) Naphthalene	8.09	128	159064	3.051	ng	95
50) Dimethylphthalate	9.55	163	354609	11.372	ng	97
52) Acenaphthene	9.86	154	141367	5.414	ng	95
55) Dibenzofuran	10.03	168	94207	2.499	ng	94
58) Fluorene	10.37	166	132410	4.911	ng	100
71) Phenanthrene	11.33	178	1179804	35.355	ng	95
72) Anthracene	11.39	178	361557	10.641	ng	94
73) Carbazole	11.54	167	130221	3.706	ng	97
75) Fluoranthene	12.53	202	1532280	47.036	ng	98
78) Pyrene	12.75	202	1387704	42.417	ng	97
81) Benzo(a)anthracene	13.94	228	658766	27.775	ng	98
83) Chrysene	13.97	228	561546	23.206	ng	97
86) Indeno(1,2,3-cd)pyrene	16.80	276	238737m	12.614	ng	
88) Benzo(b)fluoranthene	14.98	252	590885m	30.355	ng	
89) Benzo(k)fluoranthene	15.00	252	236709m	12.183	ng	
90) Benzo(a)pyrene	15.33	252	429576	23.701	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	67077	4.448	ng	# 83
92) Benzo(a,h,i)perylene	17.23	276	228645	15.166	ng	97

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

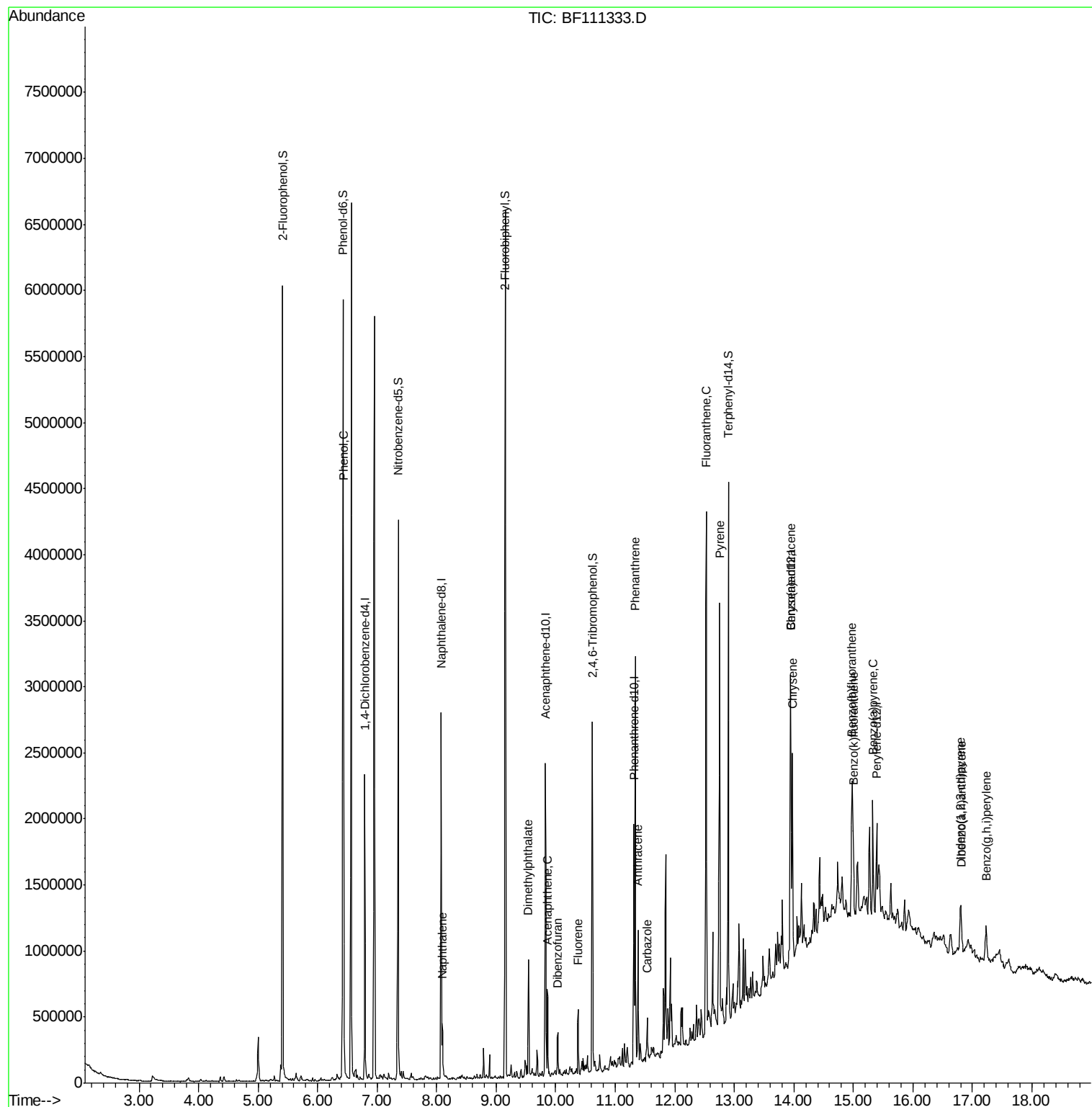
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

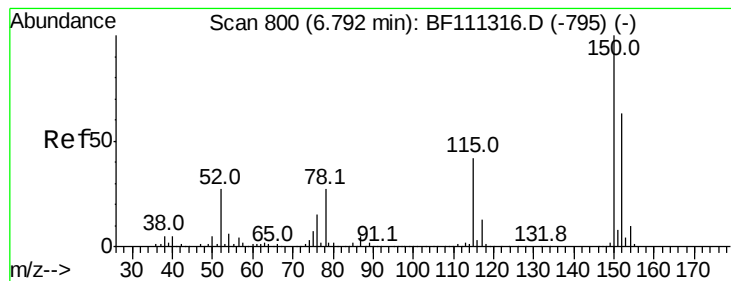
Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

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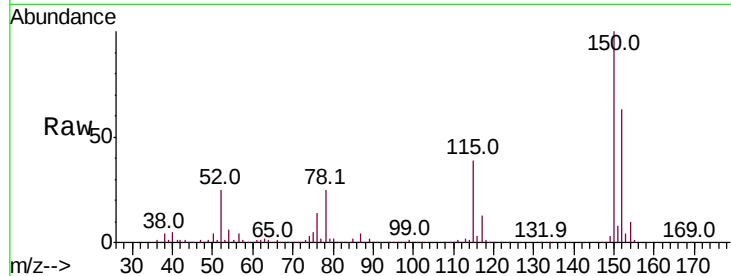
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: BF111333.D
 Acq: 12 Dec 2018 20:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	126.6	189.8
115	61.8	50.7	76.1

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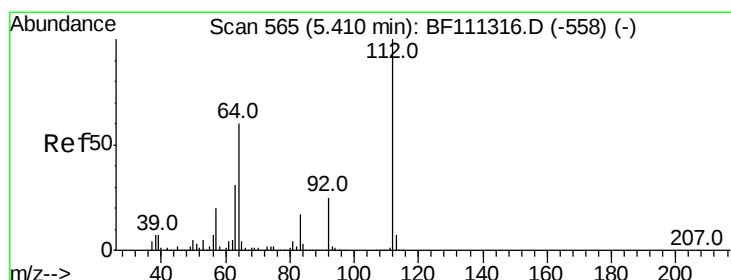
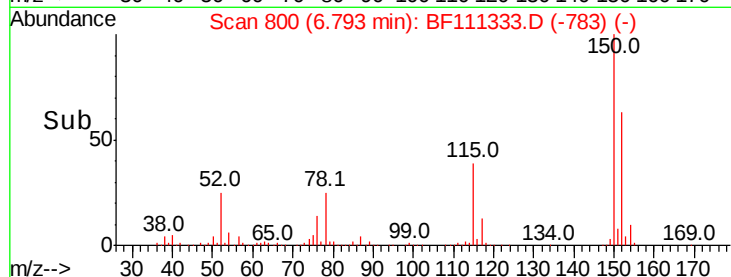
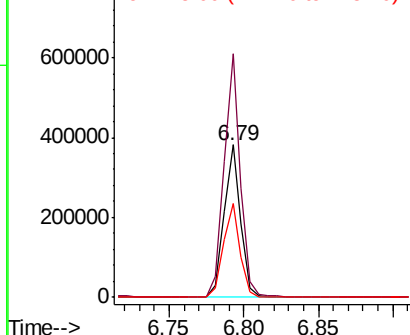


Abundance

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: 97.658 ng
 RT: 5.41 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: BF111333.D
 Acq: 12 Dec 2018 20:38

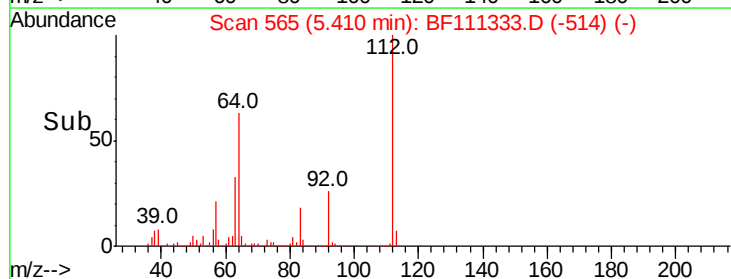
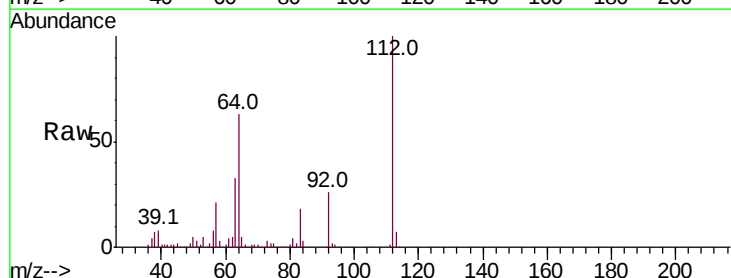
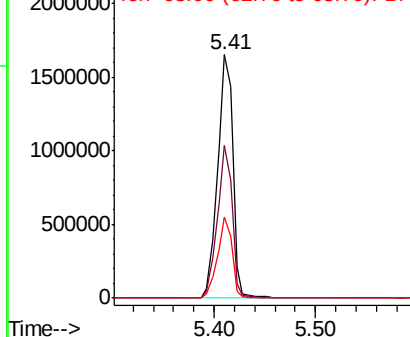
Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.9	51.8	77.6
63	33.2	26.8	40.2

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: 90.583 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

ClientSampleId :

SB-4(0-2)

Tot Ion: 99 Resp: 2170149

Ion Ratio Lower Upper

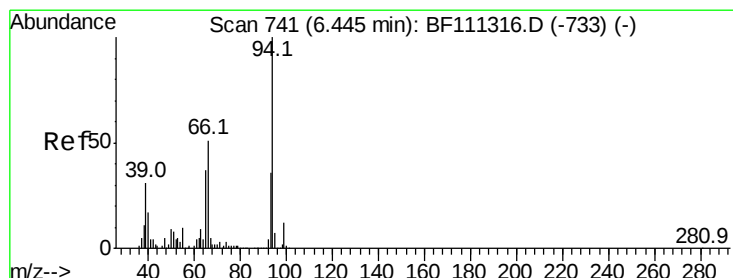
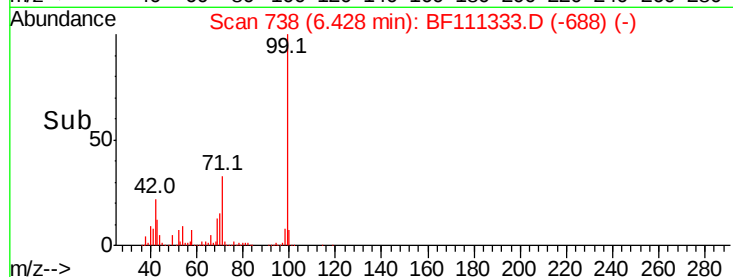
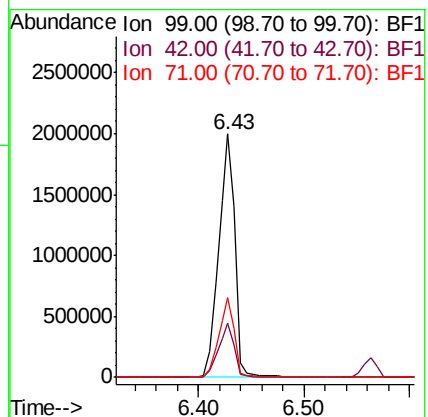
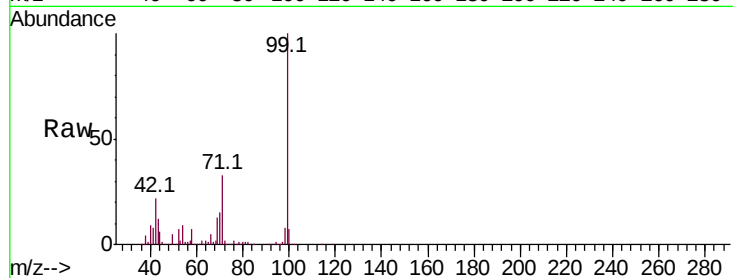
99 100

42 22.3 17.4 26.0

71 32.6 26.1 39.1

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#10

Phenol

Concen: 5.262 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

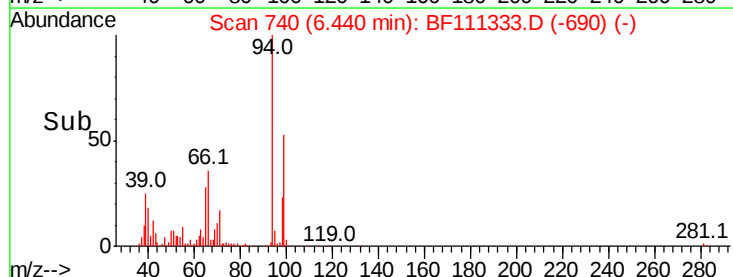
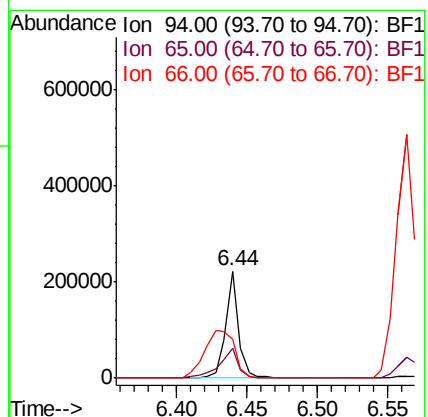
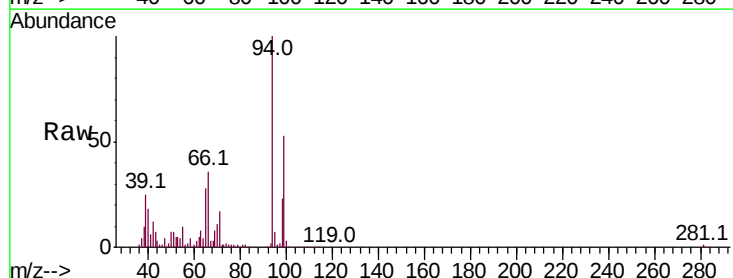
Tgt Ion: 94 Resp: 142795

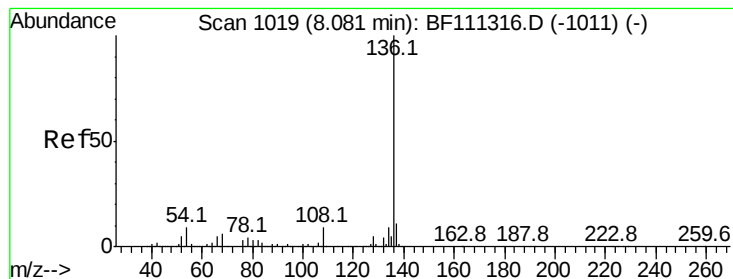
Ion Ratio Lower Upper

94 100

65 27.9 11.7 51.7

66 36.5 21.0 61.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

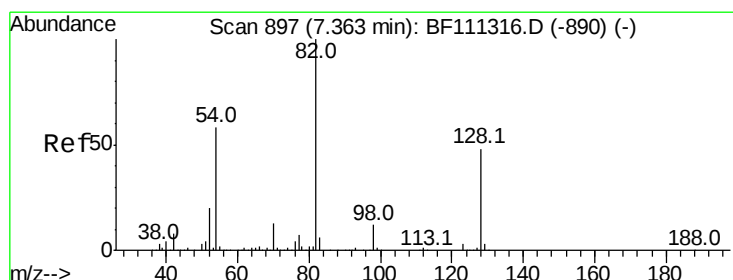
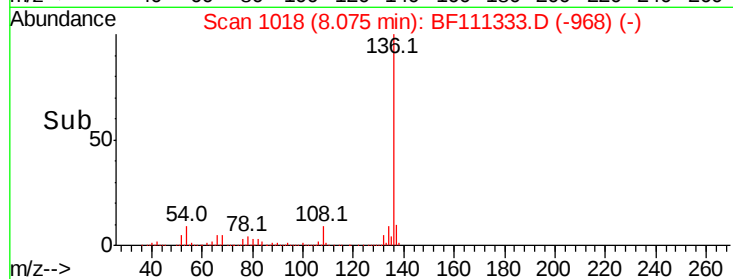
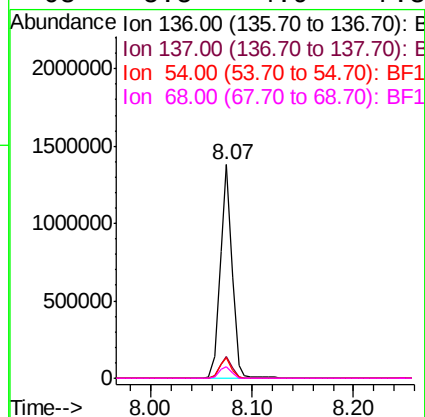
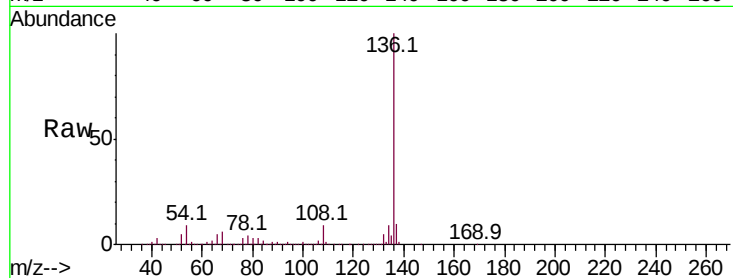
ClientSampleId :

SB-4(0-2)

Tot Ion	136	Resp	1119093
Ion Ratio	Lower	Upper	
136	100		
137	10.5	9.1	13.7
54	9.3	7.7	11.5
68	5.5	4.9	7.3

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#23

Nitrobenzene-d5

Concen: 66.212 ng

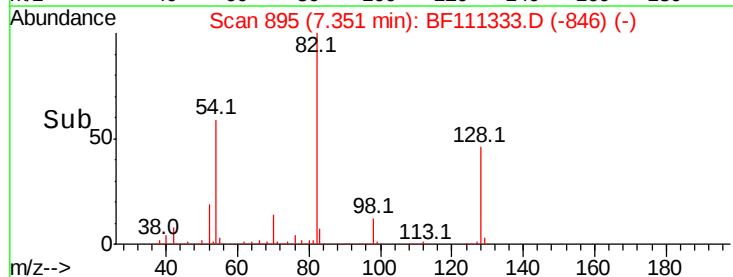
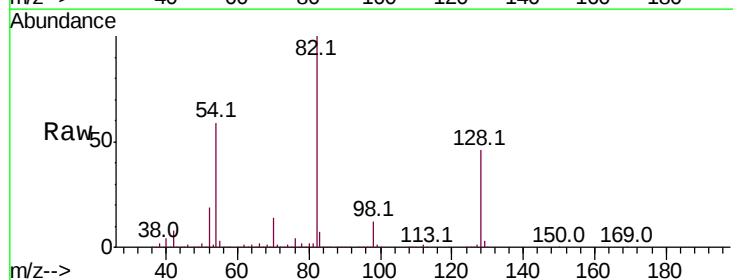
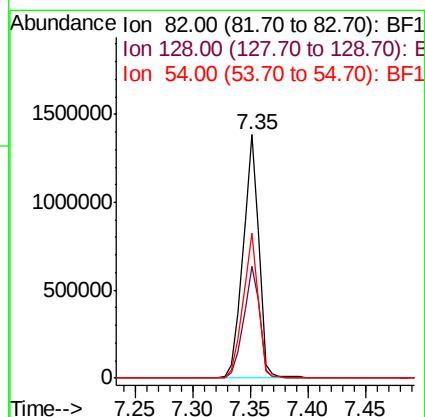
RT: 7.35 min Scan# 895

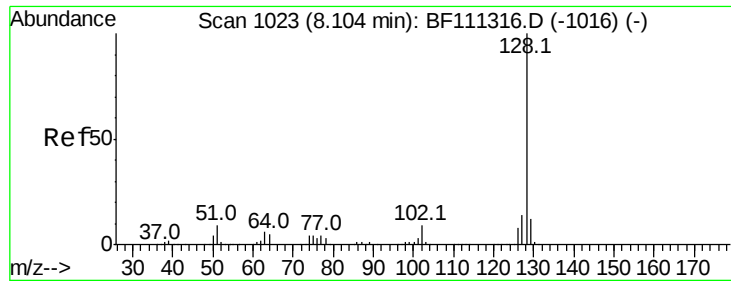
Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Tgt Ion	82	Resp	1314645
Ion Ratio	Lower	Upper	
82	100		
128	46.0	37.4	56.2
54	59.4	47.6	71.4





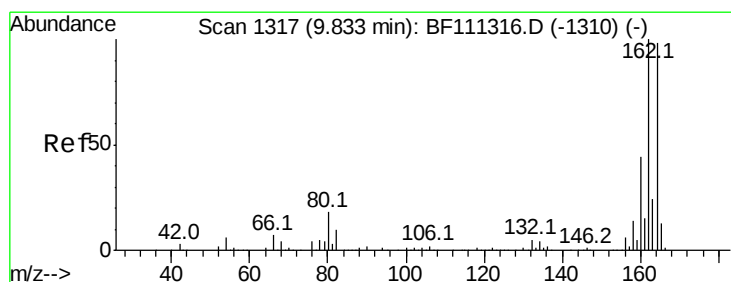
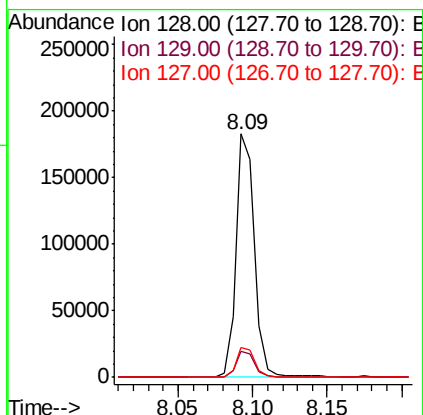
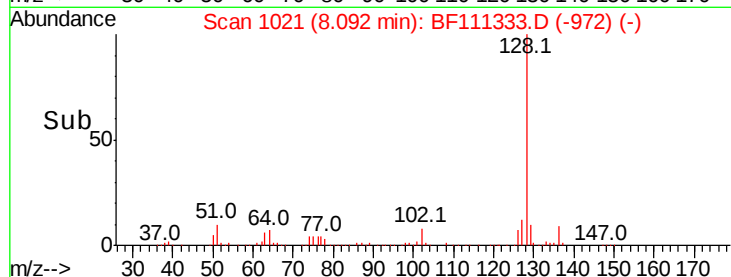
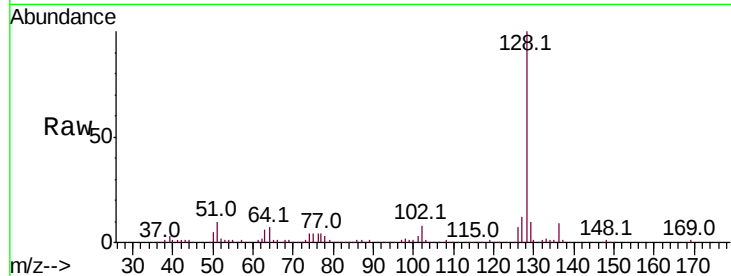
#31
Naphthalene
Concen: 3.051 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.8	14.8
127	12.4	12.0	18.0

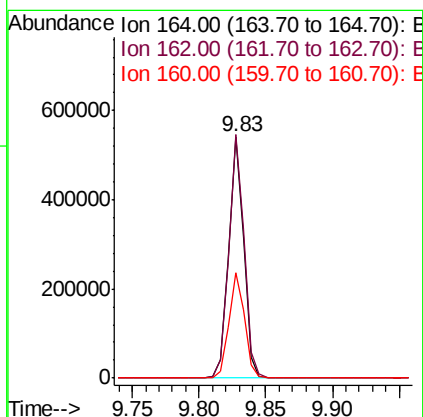
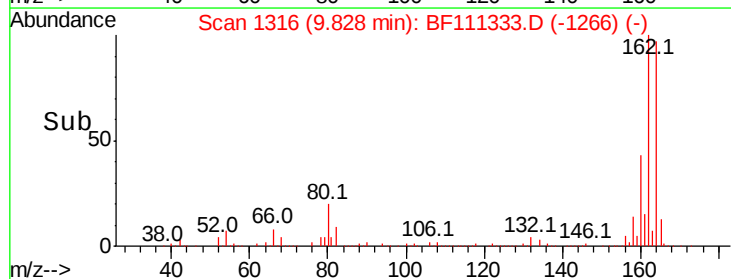
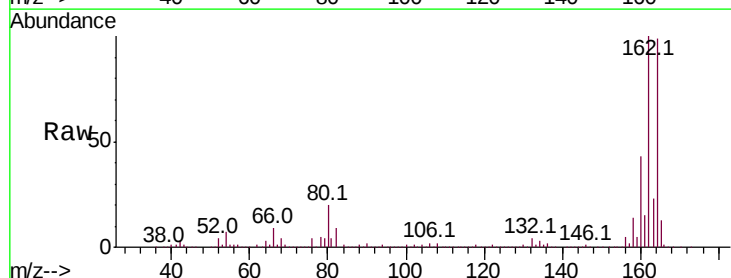
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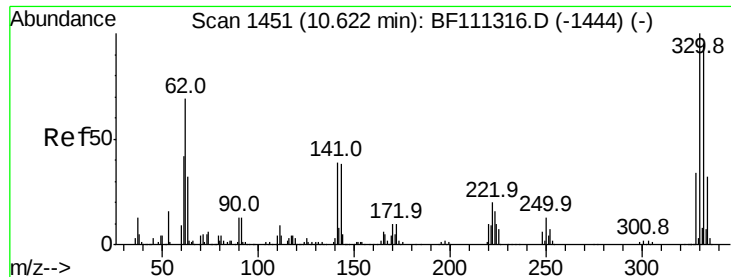
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.4	122.0
160	43.8	35.7	53.5





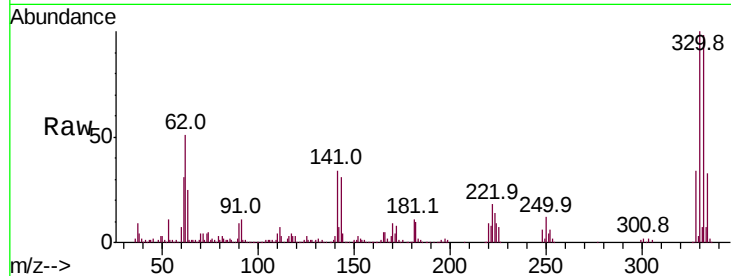
#42
 2,4,6-Tribromophenol
 Concen: 75.054 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.01 min
 Lab File: BF111333.D
 Acq: 12 Dec 2018 20:38

Instrument :
 BNA_F
 ClientSampled :
 SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	286884		
332	97.6	76.0	114.0	
141	39.6	31.0	46.6	

Manual Integrations
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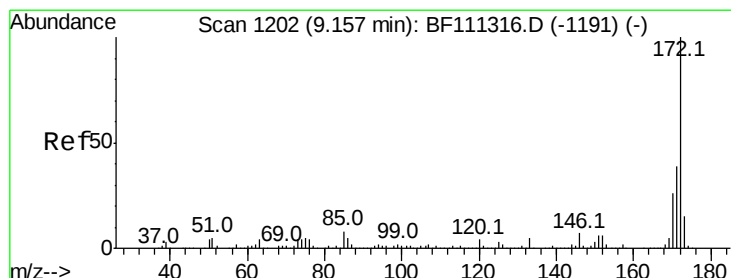
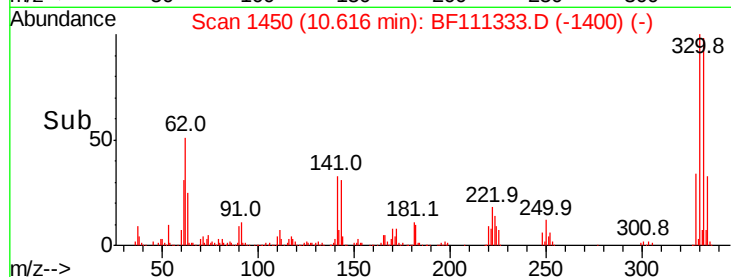
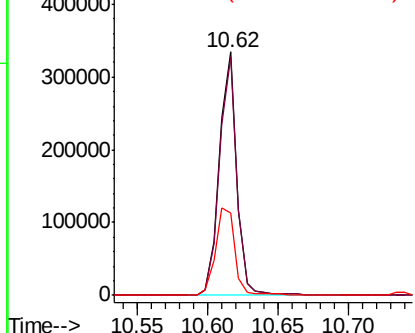


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 70.119 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: BF111333.D
 Acq: 12 Dec 2018 20:38

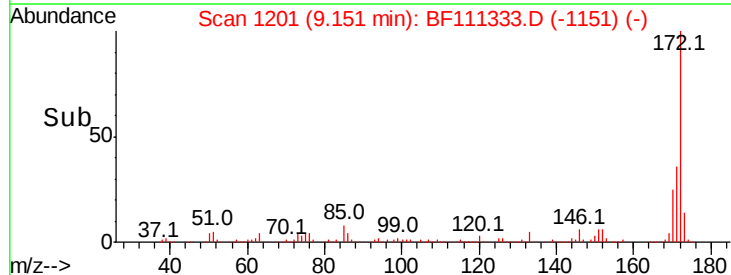
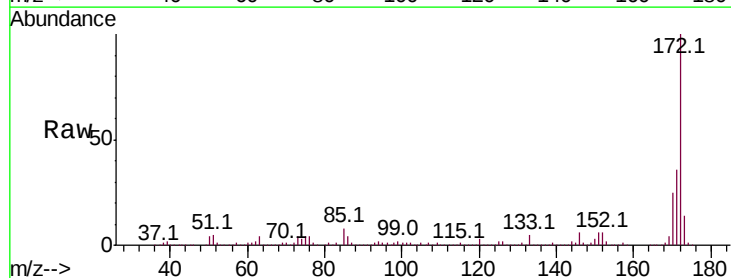
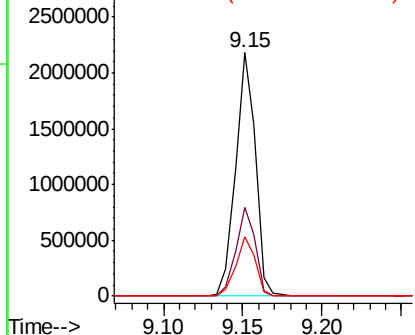
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1893801		
171	36.5	33.0	49.4	
170	24.5	22.3	33.5	

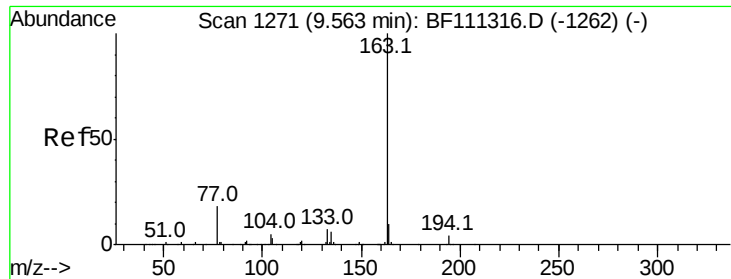
Abundance

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





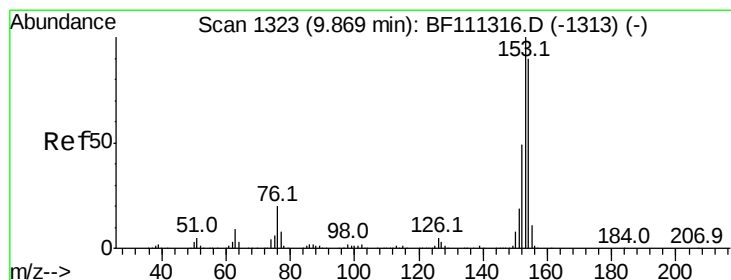
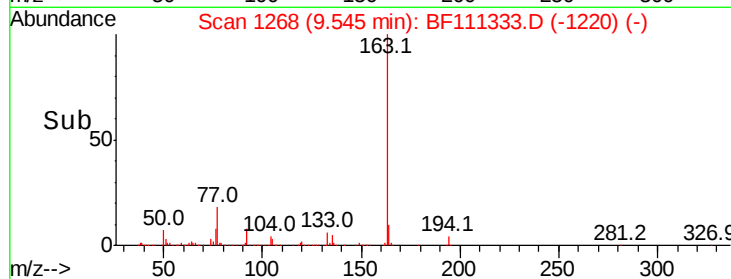
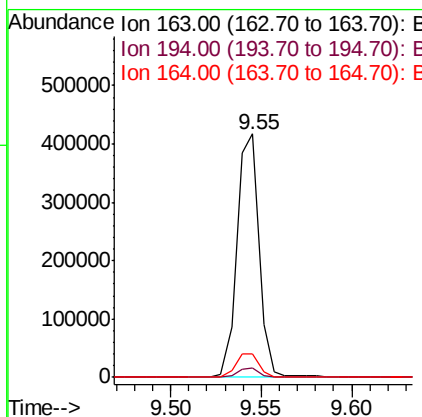
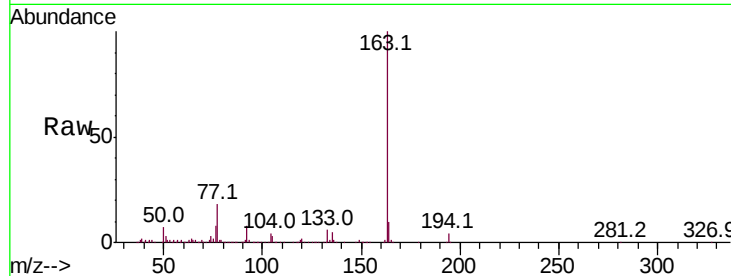
#50
Dimethylphthalate
Concen: 11.372 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.02 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7	3.0	4.6	
164	9.7	8.9	13.3	

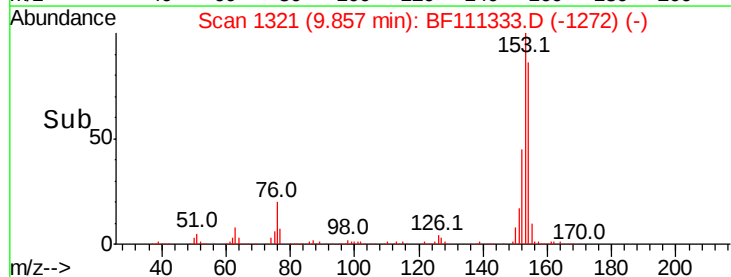
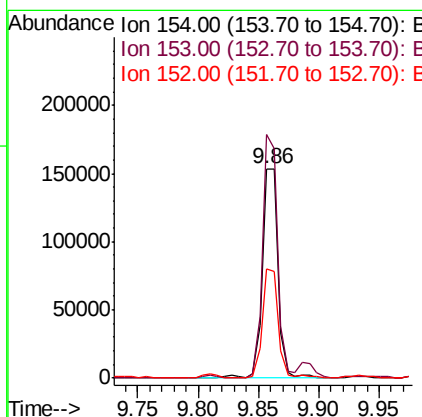
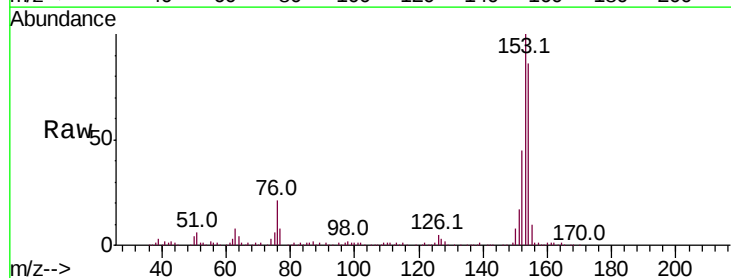
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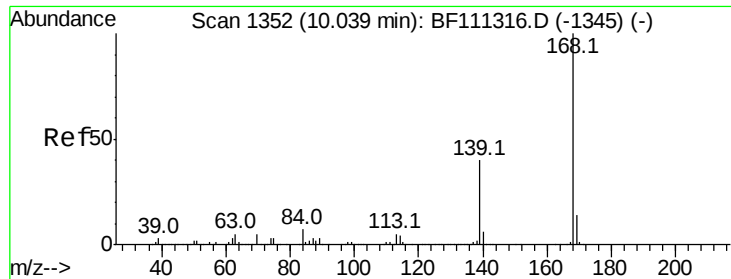
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#52
Acenaphthene
Concen: 5.414 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	116.2	87.8	131.8	
152	52.3	43.4	65.2	





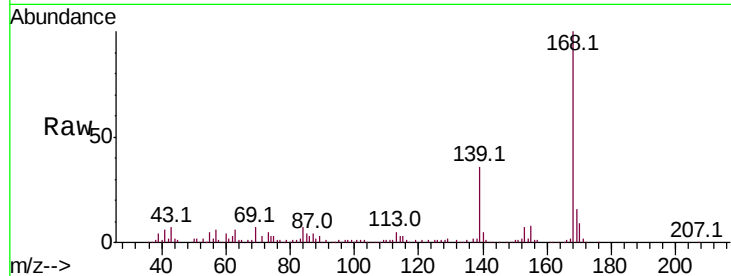
#55
Dibenzofuran
Concen: 2.499 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.3	32.6	49.0
169	15.8	11.8	17.6

Manual Integrations
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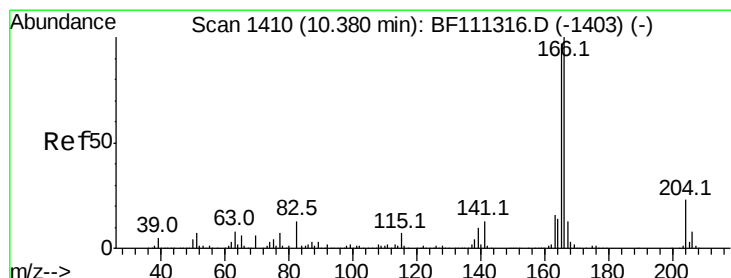
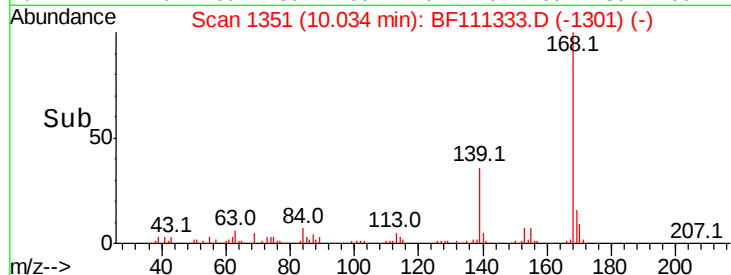
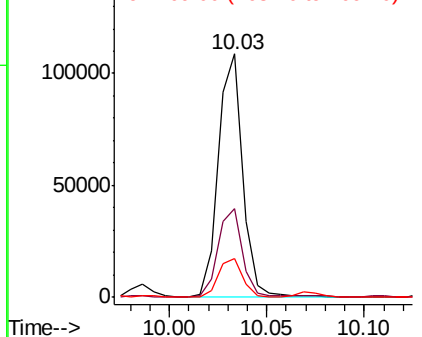


Abundance

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



#58
Fluorene
Concen: 4.911 ng
RT: 10.37 min Scan# 1409
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

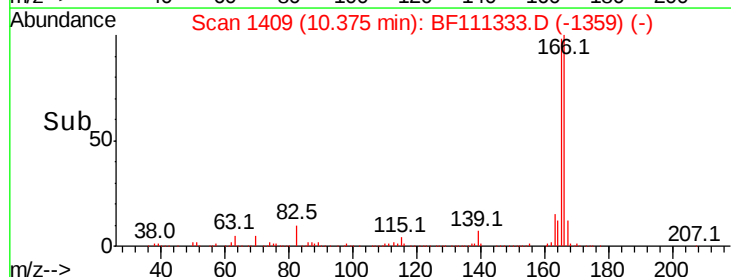
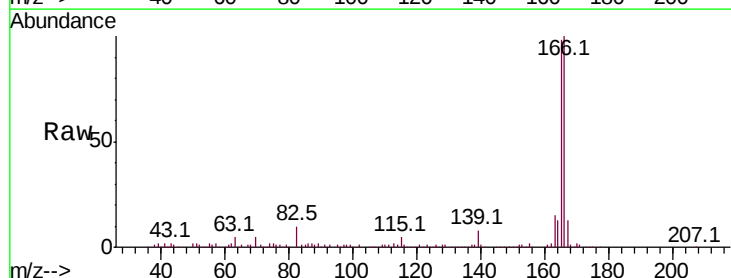
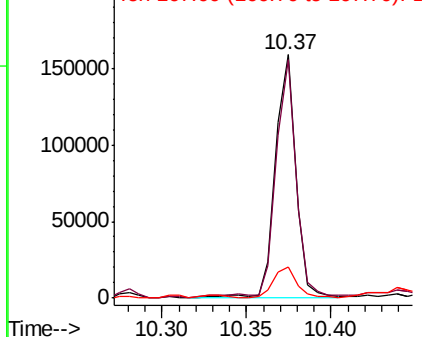
Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.4	117.6
167	12.7	11.2	16.8

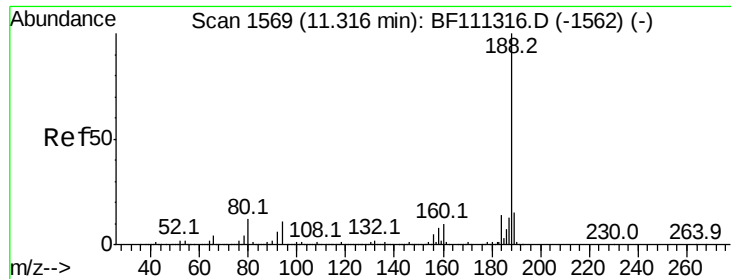
Abundance

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

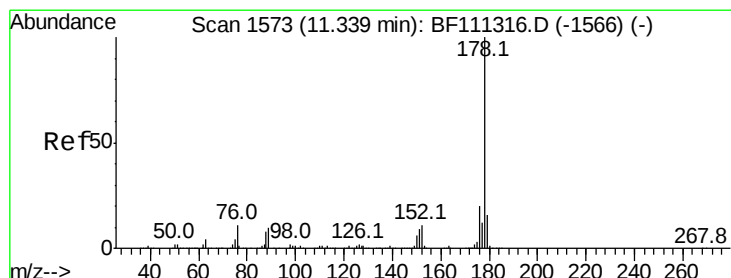
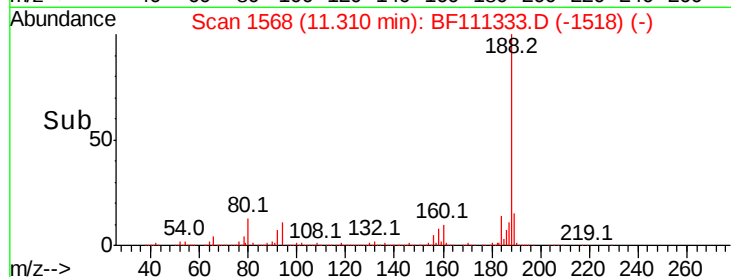
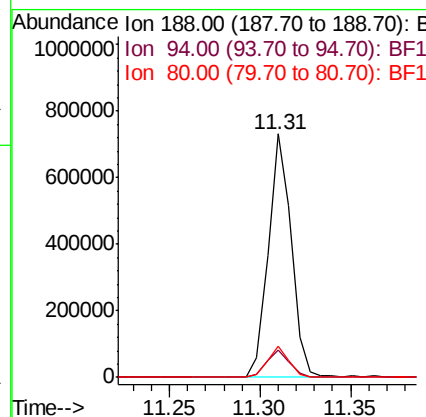
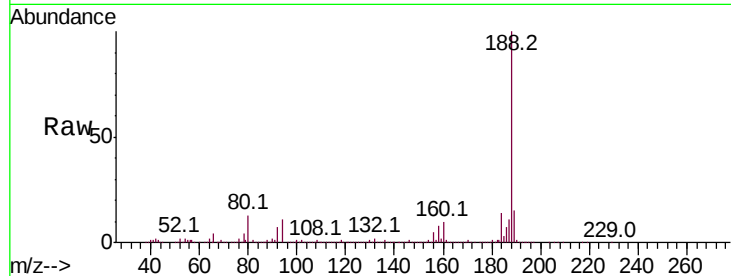
ClientSampled :

SB-4(0-2)

Tot Ion:	188	Resp:	645613
Ion Ratio	Lower	Upper	
188	100		
94	11.2	9.6	14.4
80	12.6	9.8	14.6

Manual Integrations
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Sohil
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#71

Phenanthrene

Concen: 35.355 ng

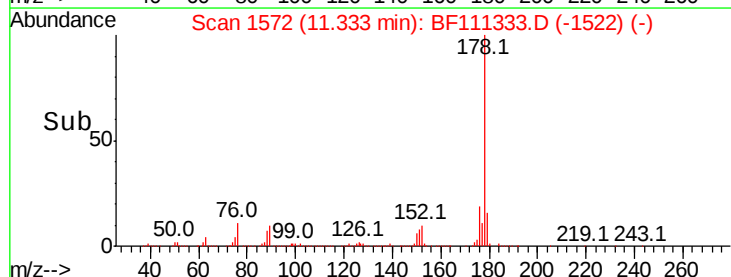
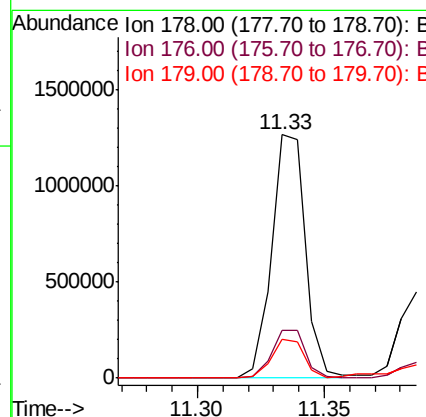
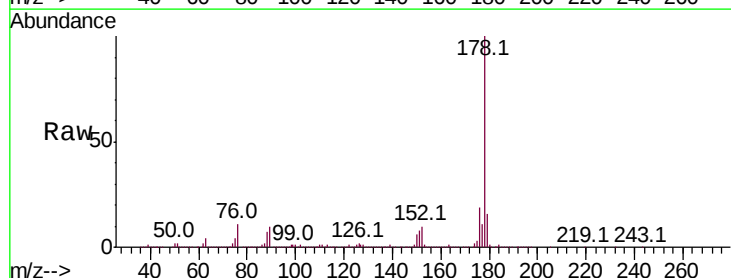
RT: 11.33 min Scan# 1572

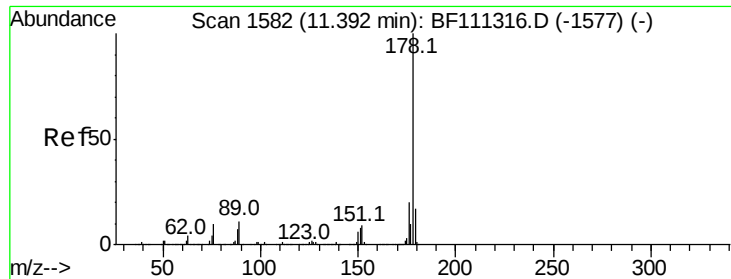
Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Tgt Ion:	178	Resp:	1179804
Ion Ratio	Lower	Upper	
178	100		
176	19.4	18.1	27.1
179	15.8	14.0	21.0





#72

Anthracene

Concen: 10.641 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

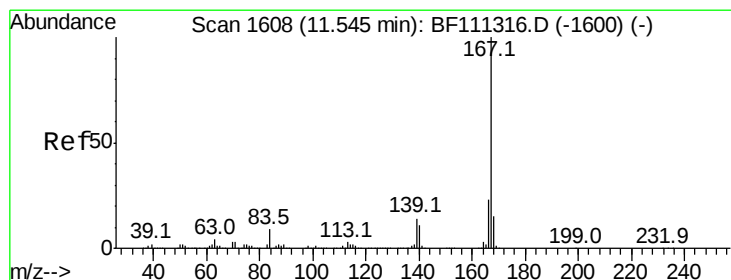
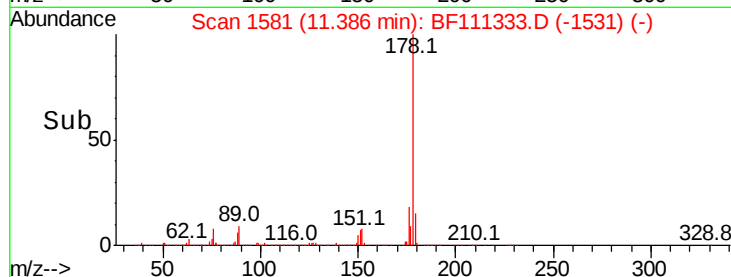
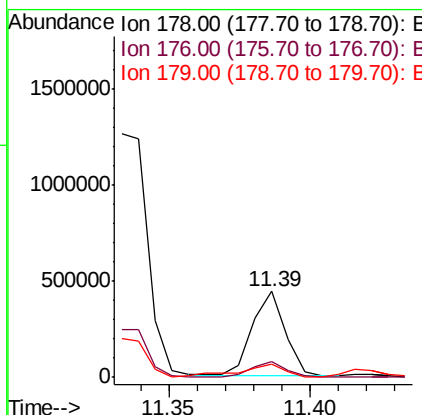
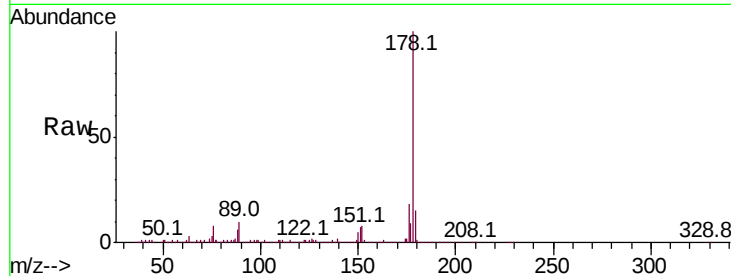
ClientSampleId :

SB-4(0-2)

Tot Ion:	178	Resp:	361557
Ion Ratio	Lower	Upper	
178	100		
176	18.2	17.2	25.8
179	15.2	13.8	20.8

Manual Integrations
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#73

Carbazole

Concen: 3.706 ng

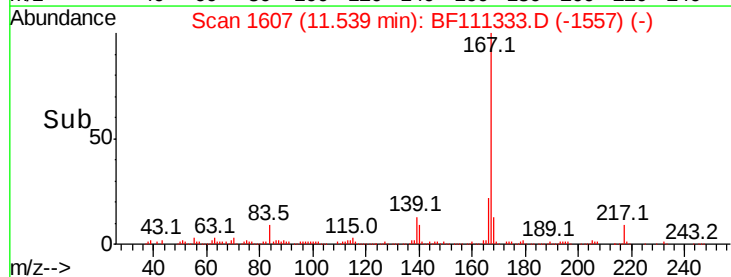
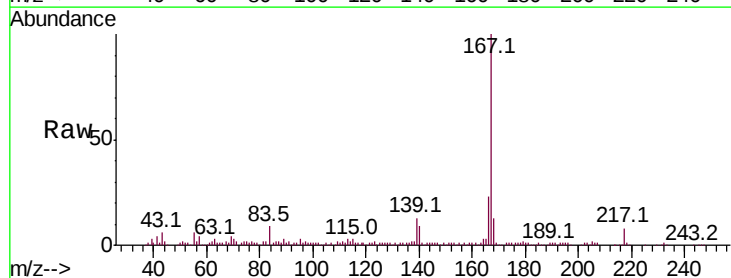
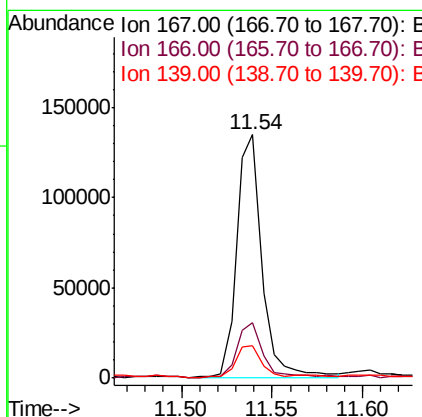
RT: 11.54 min Scan# 1607

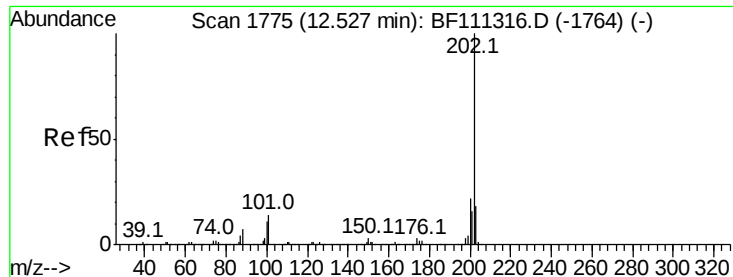
Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Tgt Ion:	167	Resp:	130221
Ion Ratio	Lower	Upper	
167	100		
166	23.0	19.3	28.9
139	13.3	11.9	17.9





#75

Fluoranthene

Concen: 47.036 ng

RT: 12.53 min Scan# 1775

Delta R.T. 0.00 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

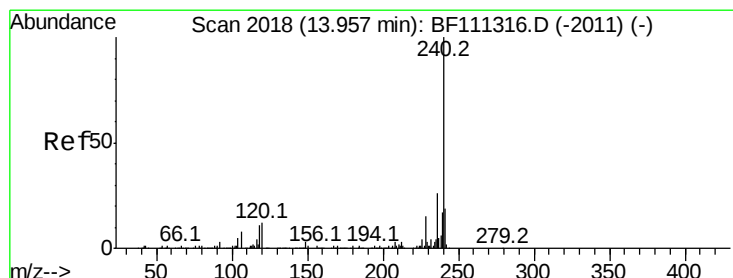
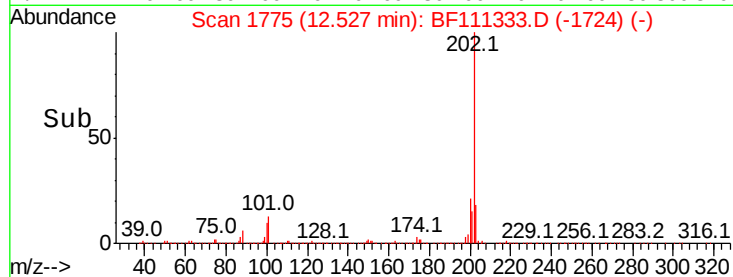
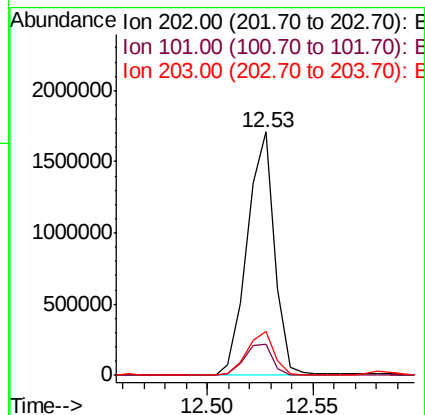
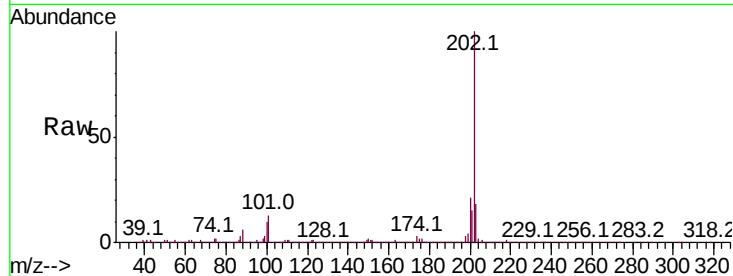
ClientSampleId :

SB-4(0-2)

Tot Ion:	202	Resp:	1532280
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	33.8
203	18.0	0.0	38.6

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

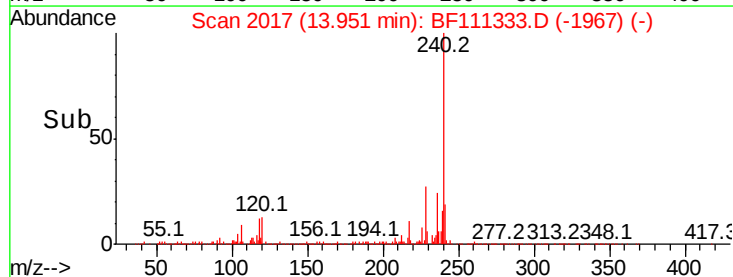
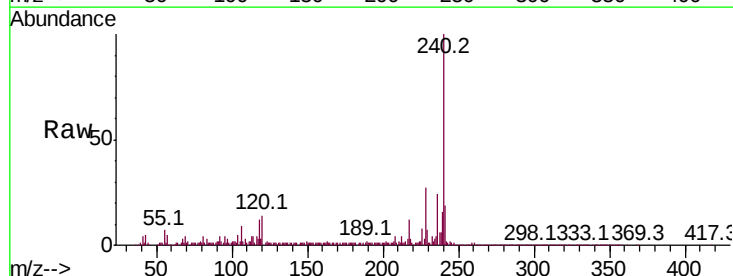
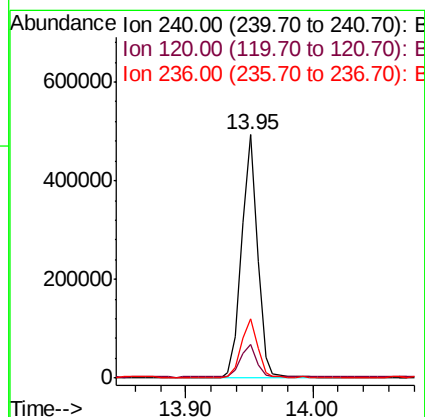
RT: 13.95 min Scan# 2017

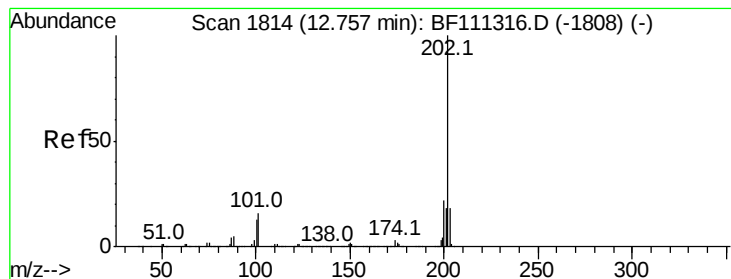
Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Tgt Ion:	240	Resp:	423909
Ion	Ratio	Lower	Upper
240	100		
120	13.7	12.2	18.2
236	24.4	20.2	30.2





#78

Pvrene

Concen: 42.417 ng

RT: 12.75 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

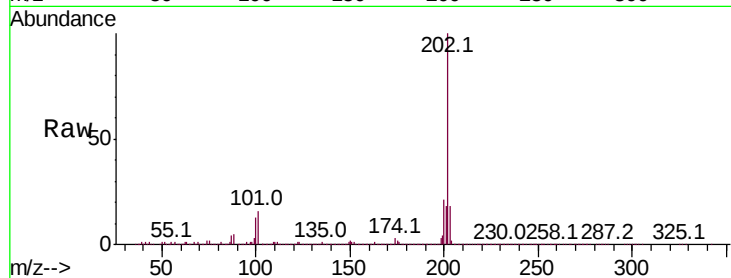
ClientSampleId :

SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	19.0	28.4
203	18.4	15.2	22.8

Manual Integrations
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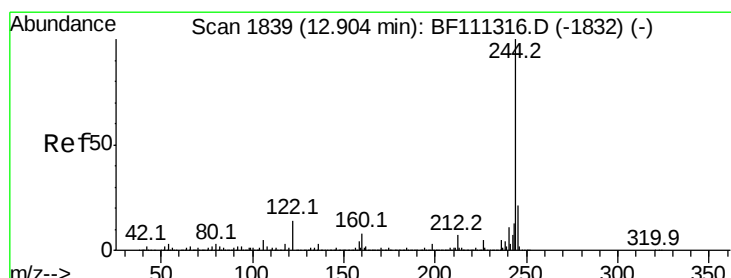
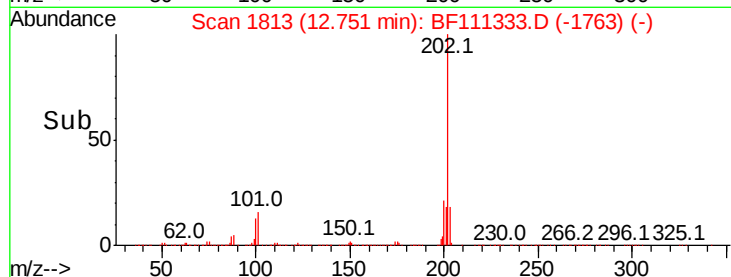
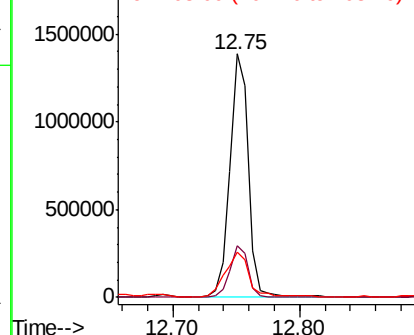


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 65.349 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

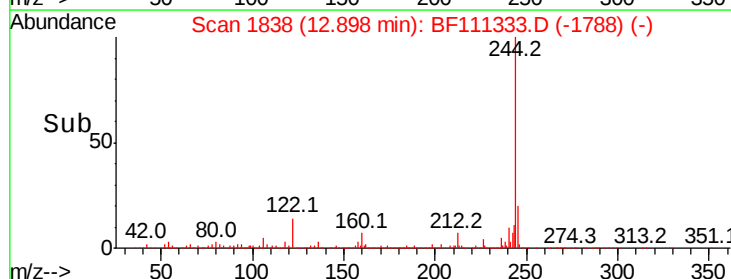
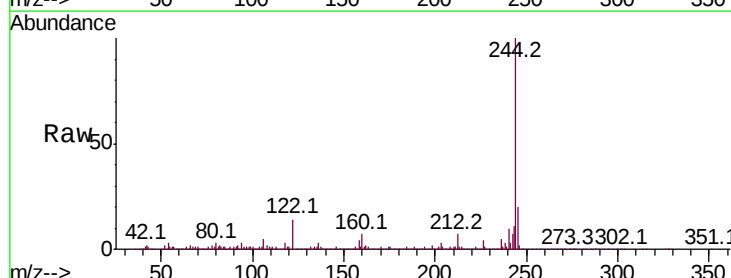
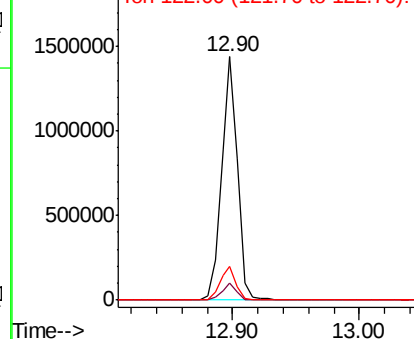
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	14.0	13.1	19.7

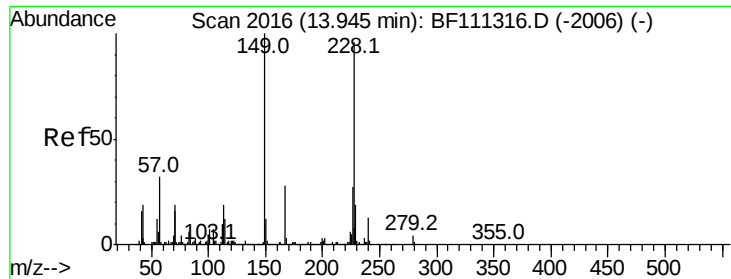
Abundance

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





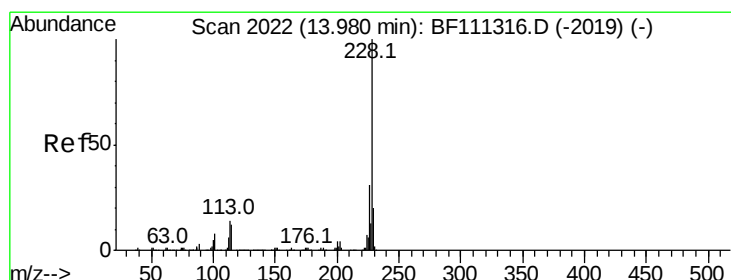
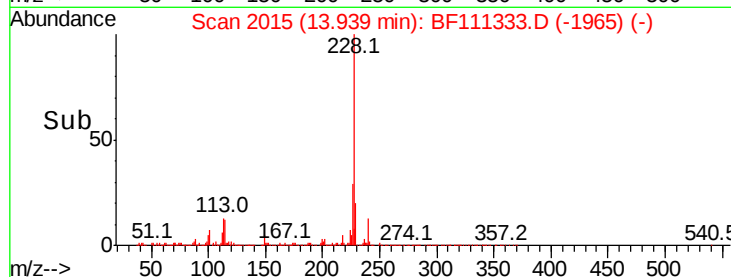
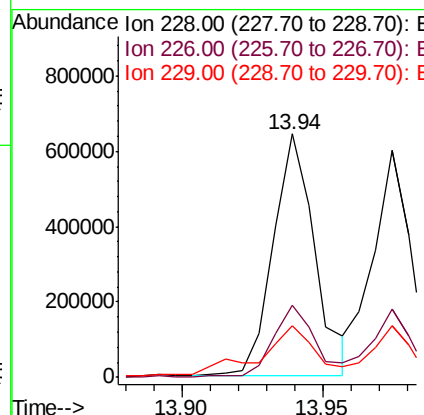
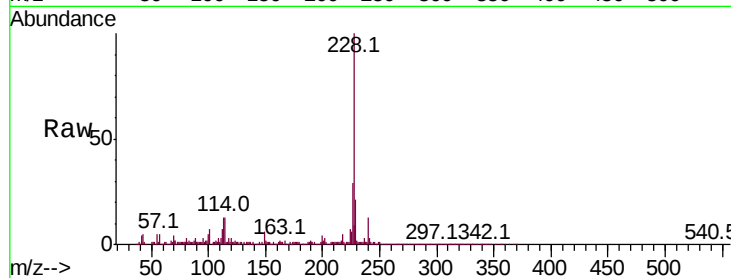
#81
Benzo(a)anthracene
Concen: 27.775 ng
RT: 13.94 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	34.0
229	21.0	16.3	24.5

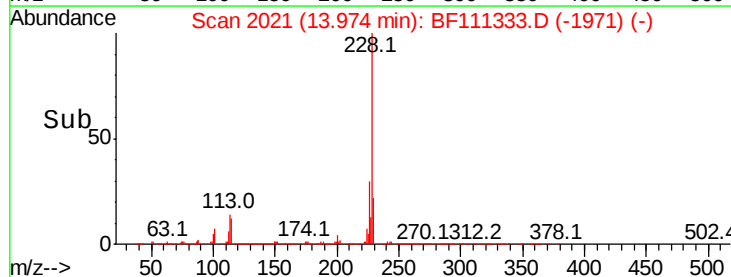
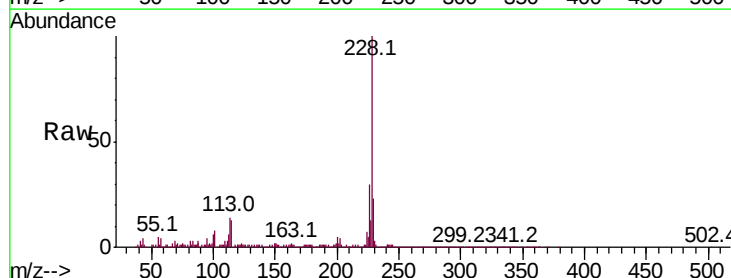
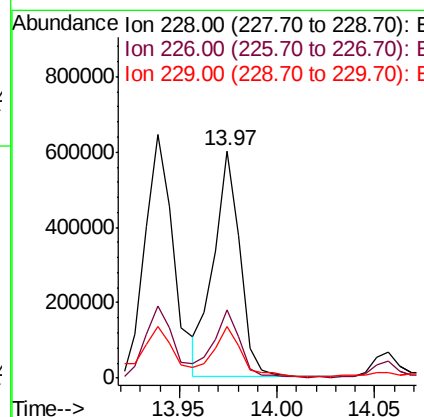
Manual Integrations
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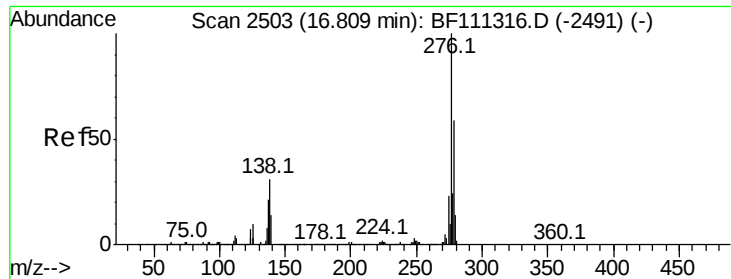
Sohil
12/13/2018 6:06:40 PM



#83
Chrysene
Concen: 23.206 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.3	37.9
229	22.9	17.2	25.8





#86

Indeno(1,2,3-cd)pyrene

Concen: 12.614 ng

RT: 16.80 min Scan# 2502

Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

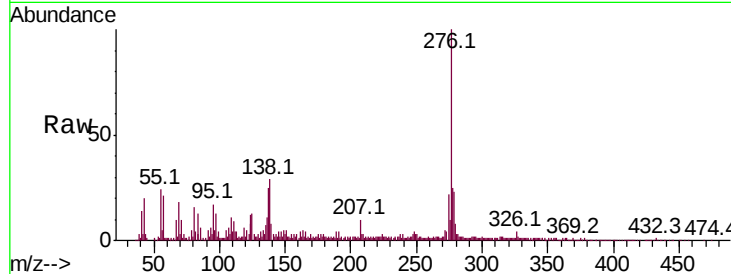
ClientSampled :

SB-4(0-2)

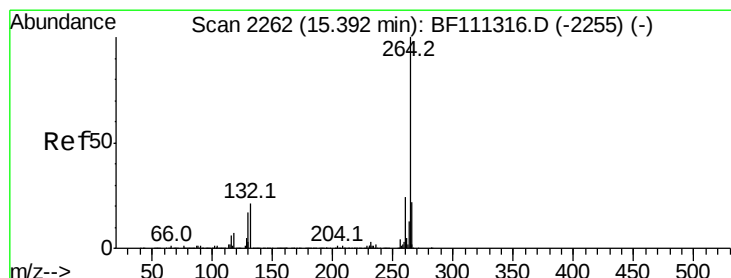
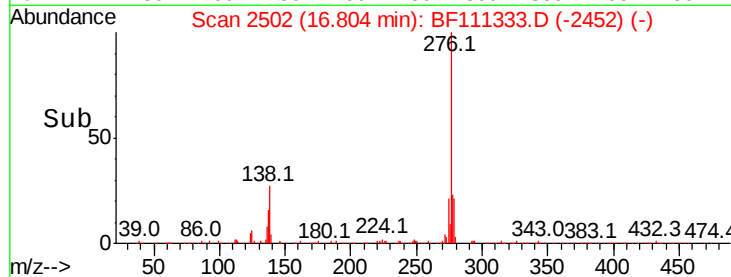
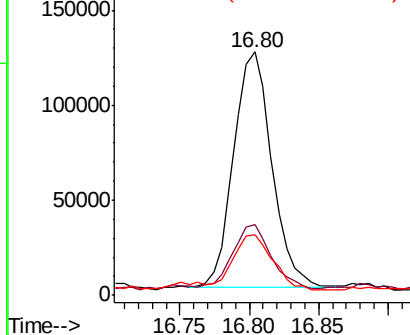
Tot Ion:	276	Resp:	238737
Ion Ratio	Lower	Upper	
276	100		
138	6.3	27.8	41.6#
277	5.2	20.1	30.1#

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



#87

Perylene-d12

Concen: 20.000 ng

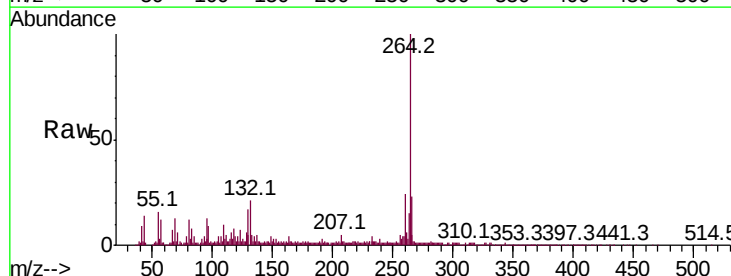
RT: 15.39 min Scan# 2262

Delta R.T. 0.00 min

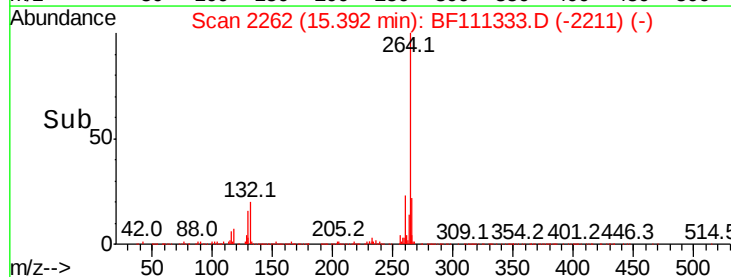
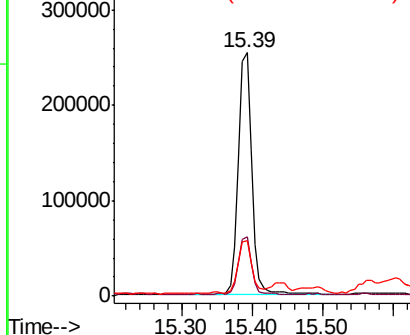
Lab File: BF111333.D

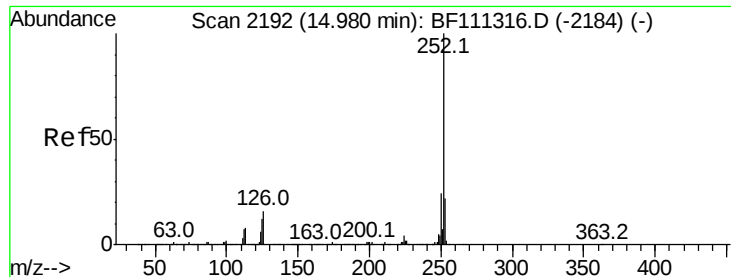
Acq: 12 Dec 2018 20:38

Tgt Ion:	264	Resp:	342323
Ion Ratio	Lower	Upper	
264	100		
260	24.2	18.3	27.5
265	22.7	17.7	26.5



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





#88

Benzo(b)fluoranthene

Concen: 30.355 ng m

RT: 14.98 min Scan# 2192

Delta R.T. 0.00 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Instrument :

BNA_F

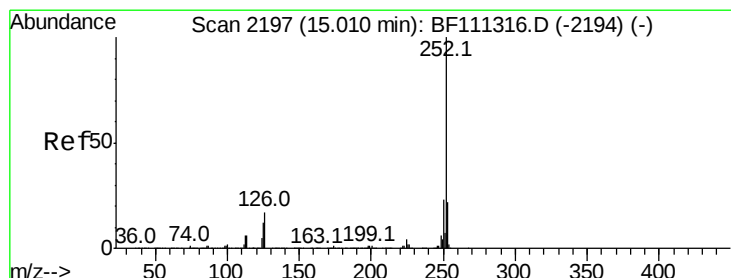
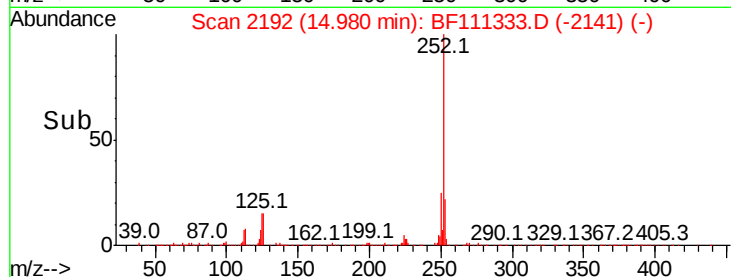
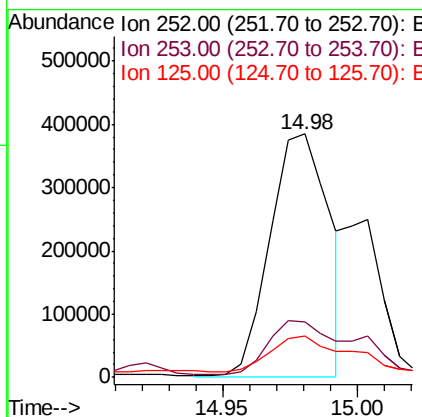
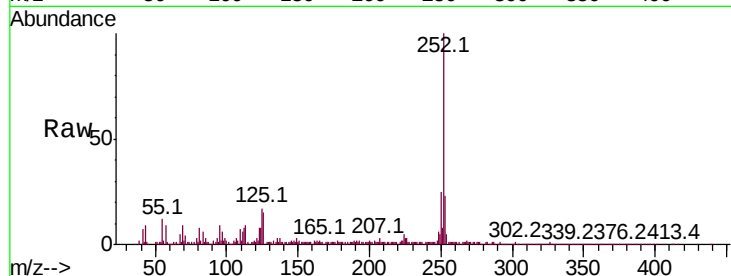
ClientSampled :

SB-4(0-2)

Tot Ion:	252	Resp:	590885
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.2	27.2
125	17.1	10.4	15.6#

Manual Integrations
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12/13/2018 6:06:40 PM



#89

Benzo(k)fluoranthene

Concen: 12.183 ng m

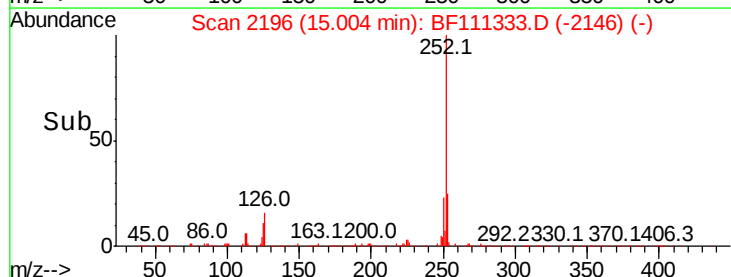
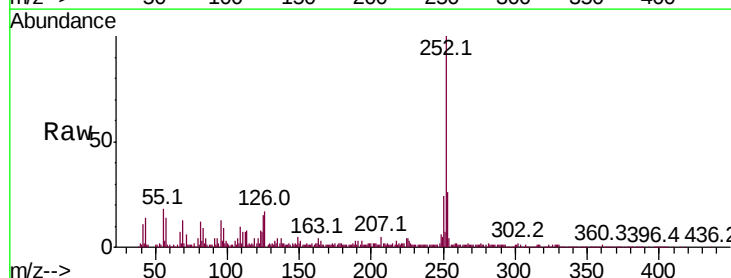
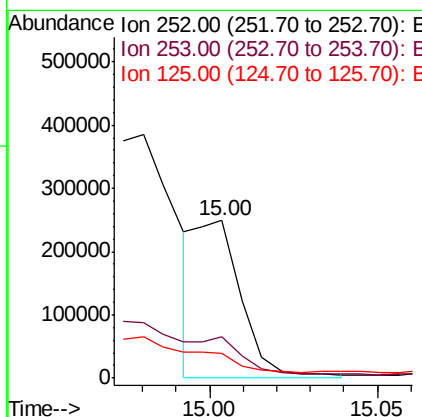
RT: 15.00 min Scan# 2196

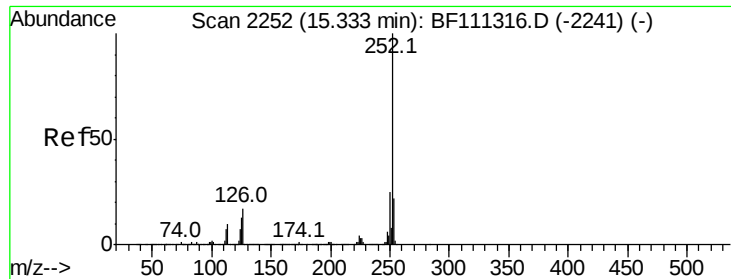
Delta R.T. -0.01 min

Lab File: BF111333.D

Acq: 12 Dec 2018 20:38

Tgt Ion:	252	Resp:	236709
Ion Ratio	Lower	Upper	
252	100		
253	26.2	18.1	27.1
125	15.4	9.8	14.8#





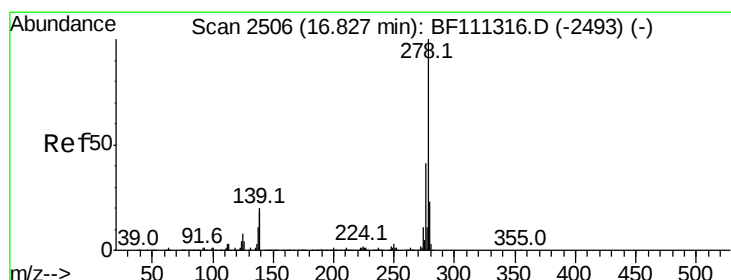
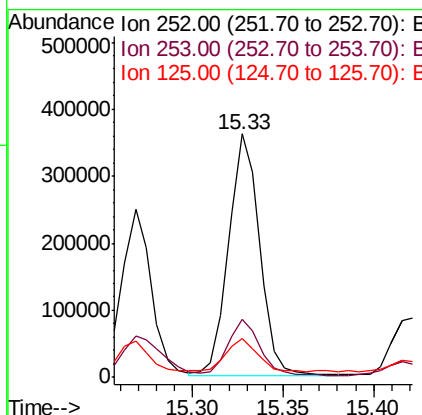
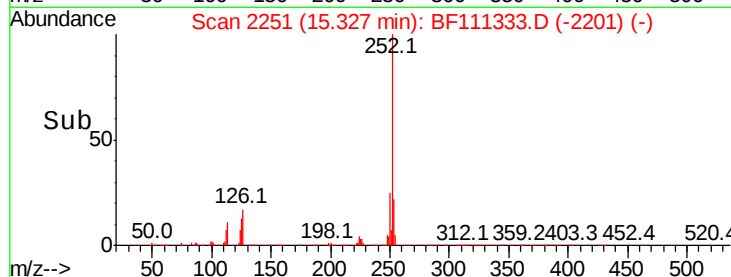
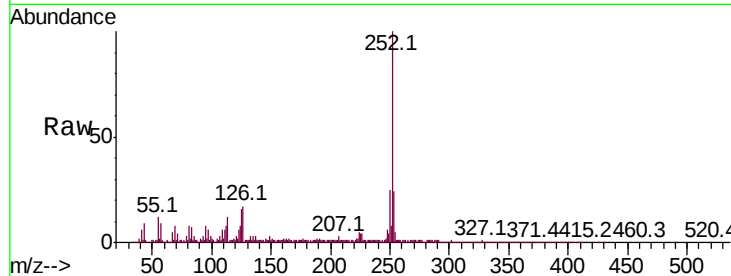
#90
Benzo(a)pyrene
Concen: 23.701 ng
RT: 15.33 min Scan# 2251
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	15.7	12.3	18.5

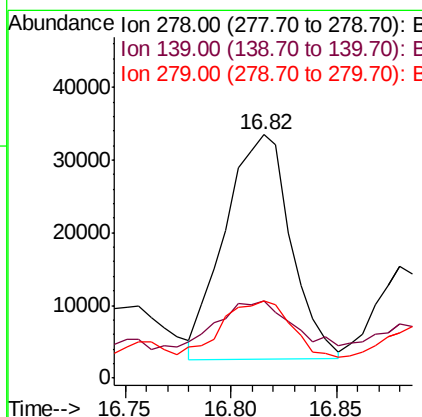
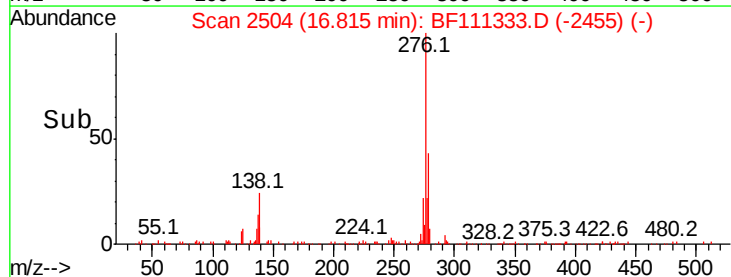
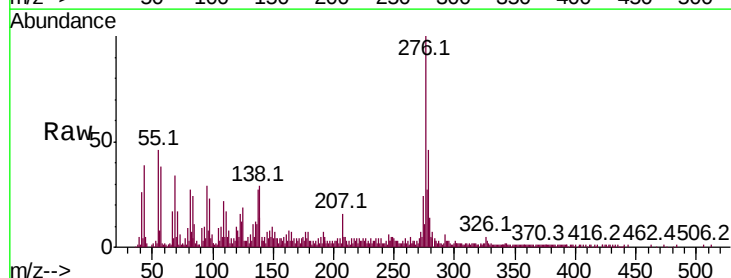
Manual Integrations
APPROVED

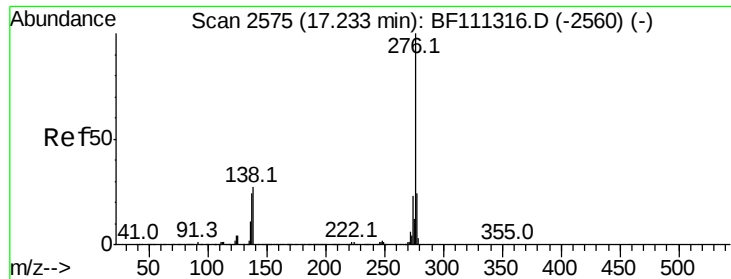
Sohil
12/13/2018 6:06:40 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.448 ng
RT: 16.82 min Scan# 2504
Delta R.T. -0.01 min
Lab File: BF111333.D
Acq: 12 Dec 2018 20:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	31.5	18.2	27.4#
279	31.7	19.0	28.6#





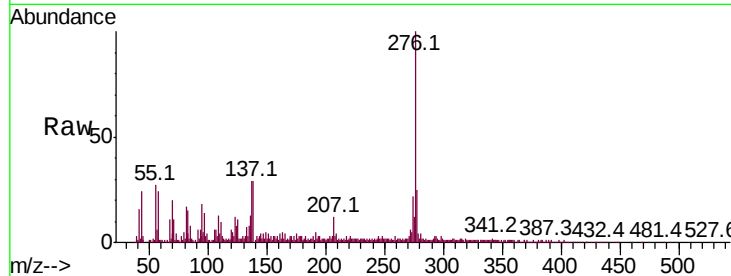
#92
 Benzo(a,h,i)perylene
 Concen: 15.166 ng
 RT: 17.23 min Scan# 2574
 Delta R.T. -0.01 min
 Lab File: BF111333.D
 Acq: 12 Dec 2018 20:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Tot Ion:	276	Resp:	228645
Ion Ratio		Lower	Upper
276	100		
277	25.1	19.2	28.8
138	29.3	24.9	37.3

Manual Integrations
 APPROVED

Sohil
 12/13/2018 6:06:40 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

