

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122817\
 Data File : BF101813.D
 Acq On : 28 Dec 2017 20:06
 Operator : SJ/JU
 Sample : I7030-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-4

Manual Integrations
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Sohil
 12/29/2017 11:55:27 AM

Quant Time: Dec 29 05:40:33 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 26 10:48:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	134771	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	473304	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	172702	20.00	ng	-0.01
63) Phenanthrene-d10	11.31	188	275427	20.00	ng	0.00
75) Chrysene-d12	13.96	240	292648	20.00	ng	0.00
86) Perylene-d12	15.43	264	272953	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	220568	24.38	ng	0.01
7) Phenol-d6	6.44	99	268443	23.84	ng	0.00
23) Nitrobenzene-d5	7.36	82	151471	17.81	ng	0.00
41) 2,4,6-Tribromophenol	10.62	330	33178	19.94	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	228728	20.54	ng	-0.01
78) Terphenyl-d14	12.89	244	169187	13.94	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.09	128	598291	25.109	ng	99
37) 2-Methylnaphthalene	8.78	142	164161	10.574	ng	98
45) 1,1'-Biphenyl	9.24	154	79724	5.205	ng	97
48) Acenaphthylene	9.69	152	59627	3.221	ng	98
51) Acenaphthene	9.85	154	279158	25.102	ng	99
57) Fluorene	10.37	166	144812	12.113	ng	100
70) Phenanthrene	11.34	178	746907	48.764	ng	99
71) Anthracene	11.39	178	212314	13.570	ng	97
74) Fluoranthene	12.53	202	409488	25.470	ng	98
77) Pyrene	12.76	202	577604	26.299	ng	99
80) Benzo(a)anthracene	13.95	228	219287	11.348	ng	98
82) Chrysene	13.99	228	174936	9.588	ng	98
85) Indeno(1,2,3-cd)pyrene	16.93	276	56352	3.468	ng	# 88
87) Benzo(b)fluoranthene	15.01	252	150616m	9.053	ng	
88) Benzo(k)fluoranthene	15.03	252	43853m	2.711	ng	
89) Benzo(a)pyrene	15.37	252	164919	10.753	ng	98
91) Benzo(a,h,i)perylene	17.37	276	61316	4.702	ng	# 93

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

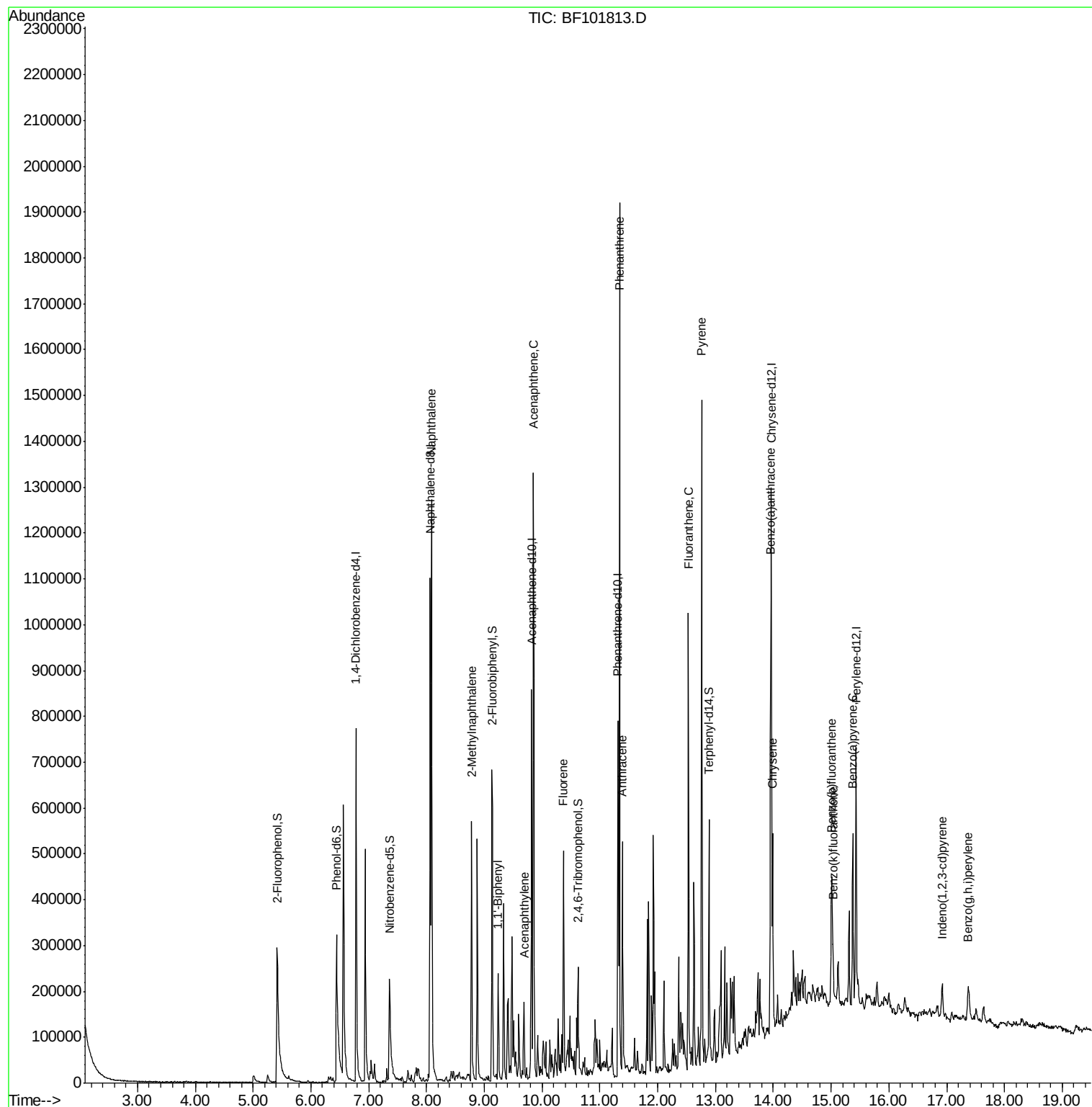
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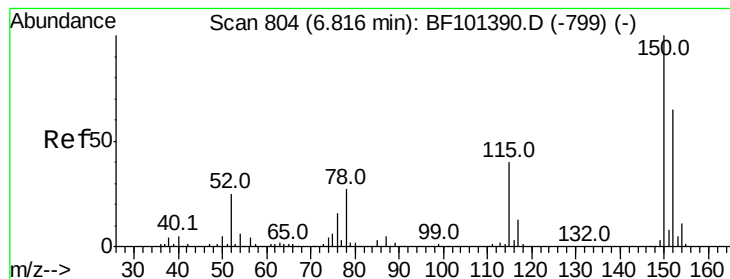
Instrument :
BNA_F
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CS-TP-BANK-4

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#1

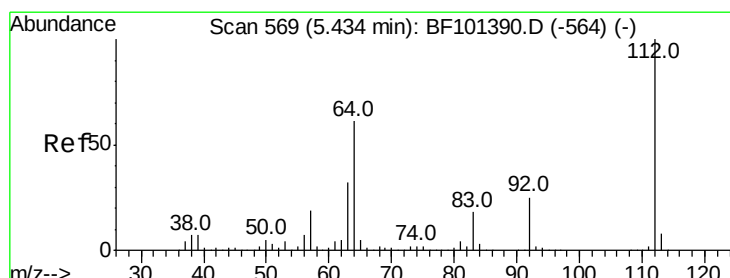
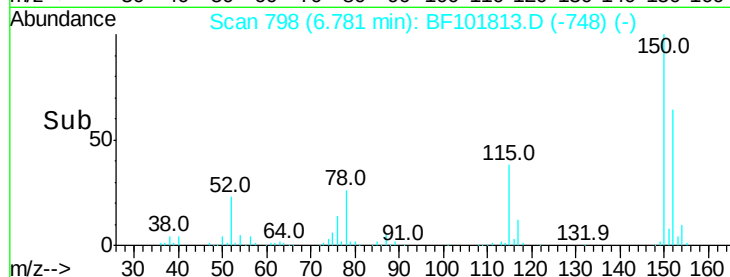
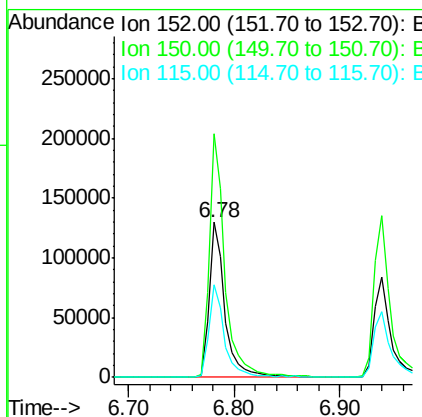
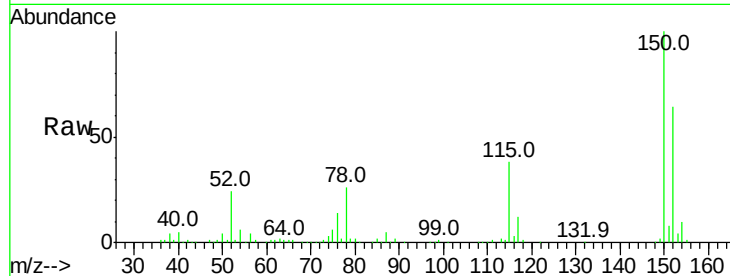
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.6	186.8
115	60.0	50.1	75.1

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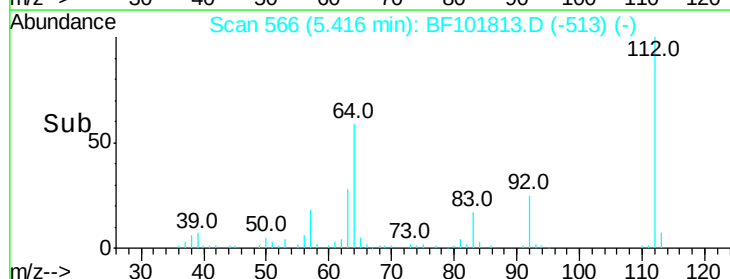
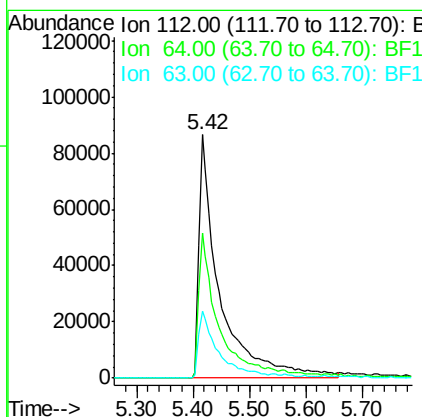
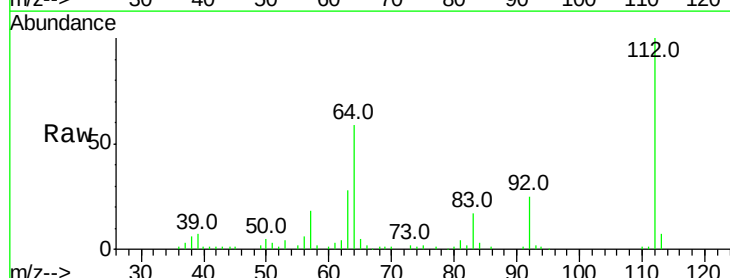
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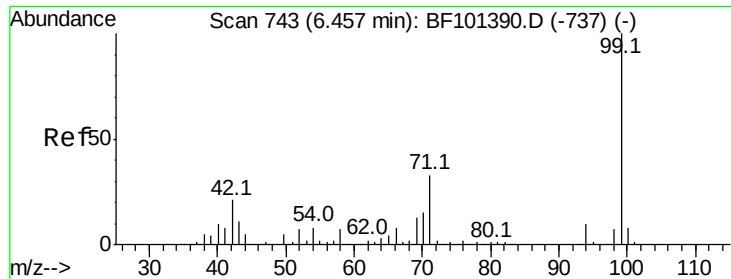


#5

2-Fluorophenol
Concen: 24.379 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	47.9	71.9
63	27.6	23.7	35.5





#7

Phenol-d6

Concen: 23.840 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Instrument :

BNA_F

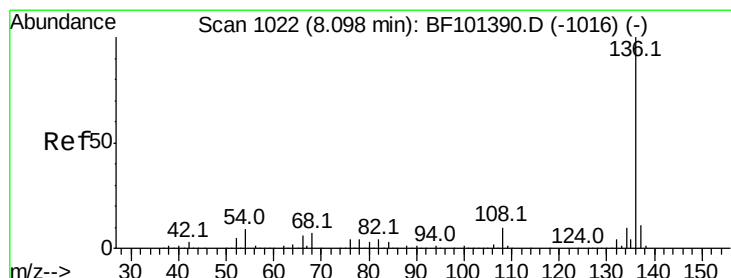
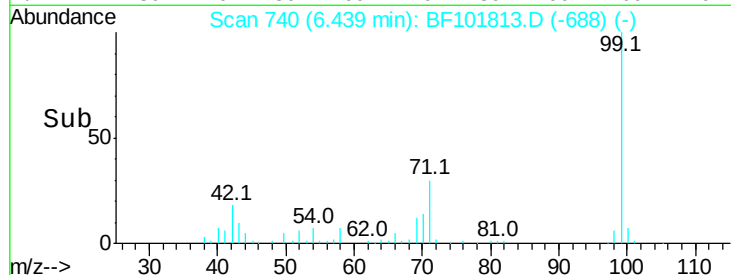
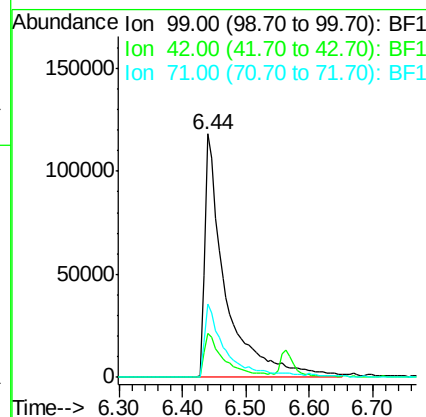
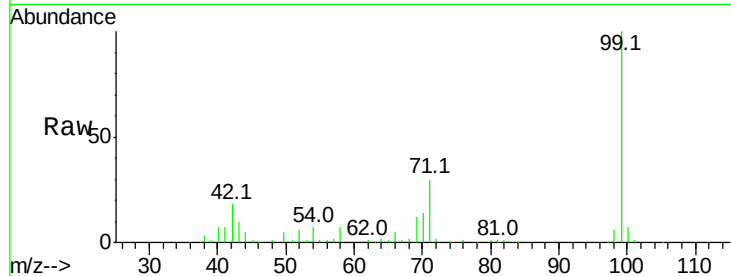
ClientSampleId :

CS-TP-BANK-4

Tot Ion:	99	Resp:	268443
Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.5	21.7
71	30.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

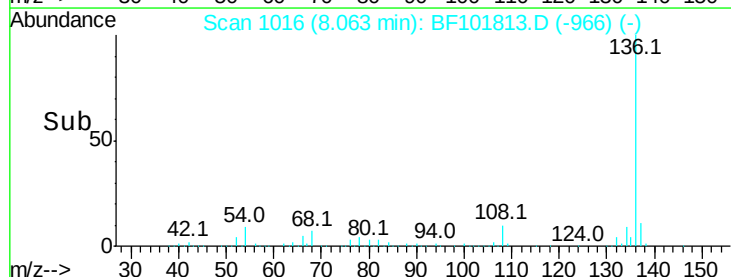
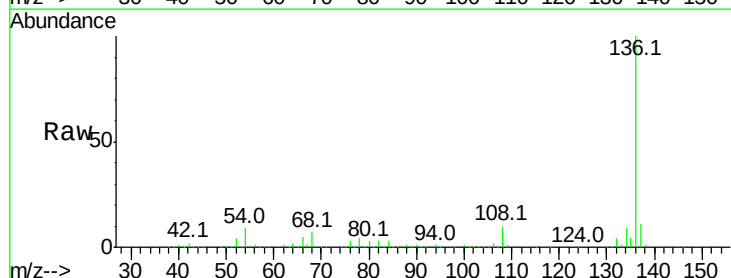
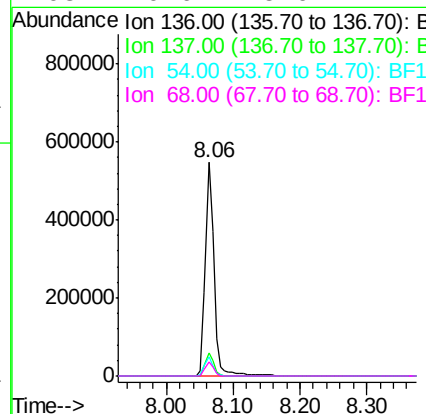
RT: 8.06 min Scan# 1016

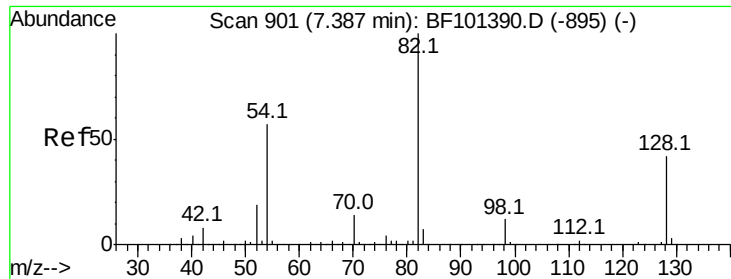
Delta R.T. -0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Tgt Ion:	136	Resp:	473304
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.9	6.6	9.8
68	6.6	5.0	7.4





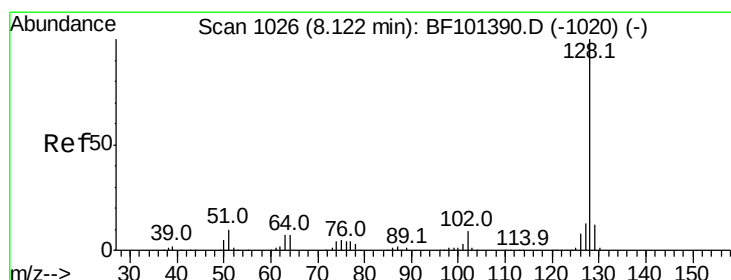
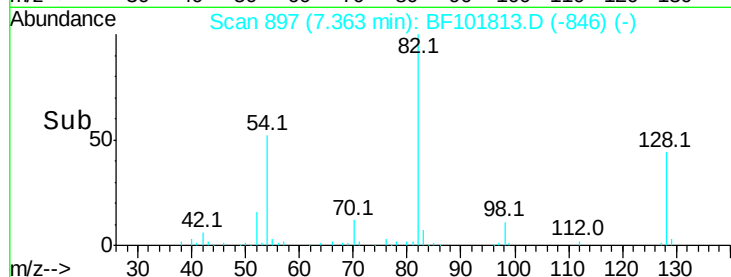
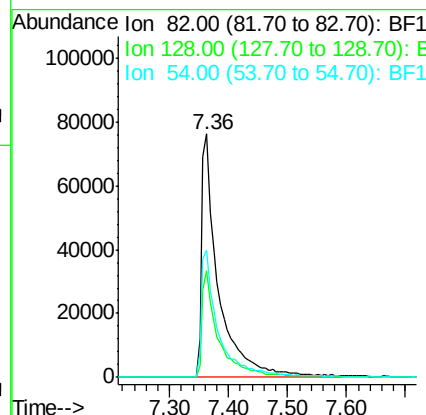
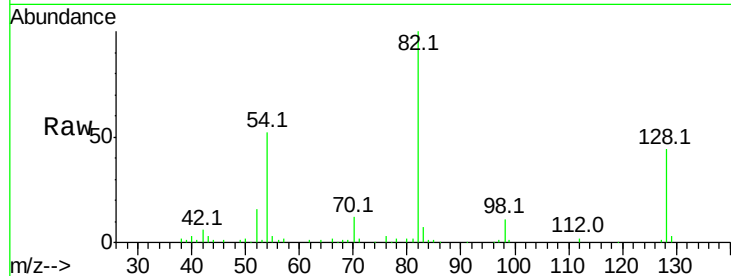
#23
Nitrobenzene-d5
Concen: 17.815 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.00 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.8	36.1	54.1
54	52.4	41.4	62.2

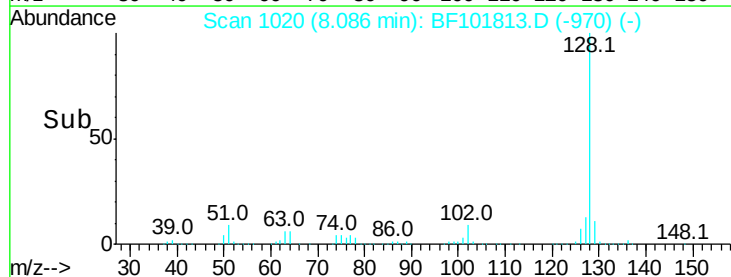
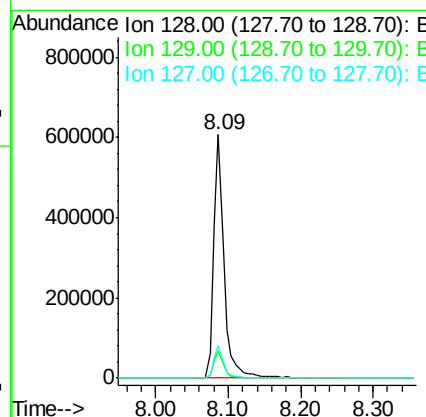
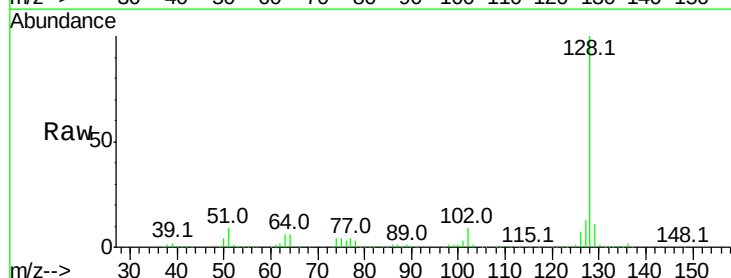
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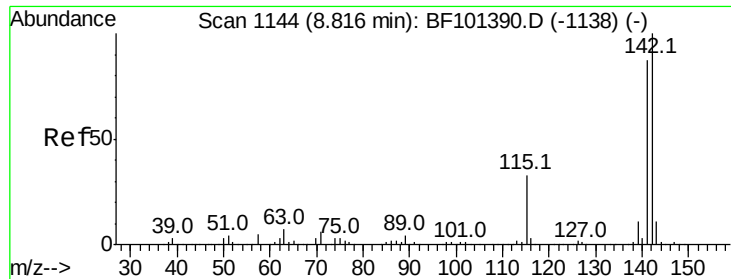
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#31
Naphthalene
Concen: 25.109 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.3	10.9	16.3





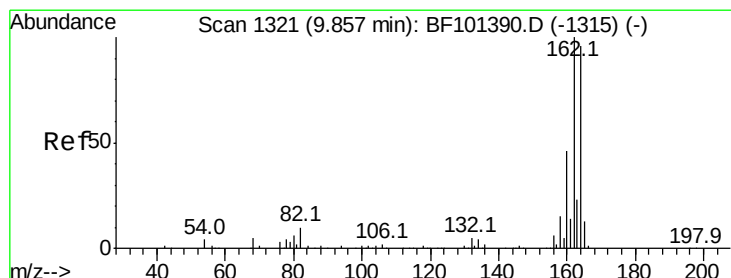
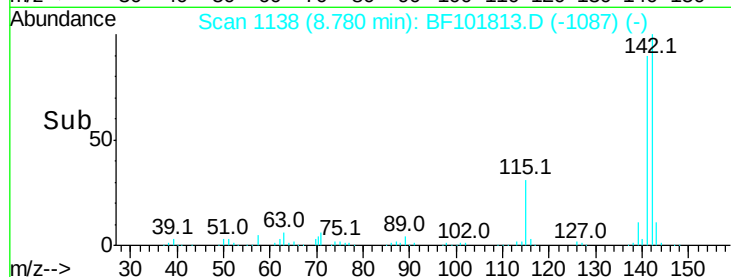
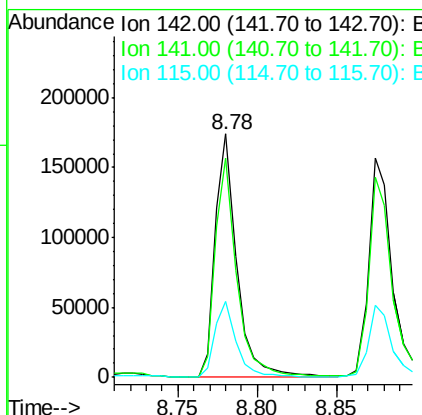
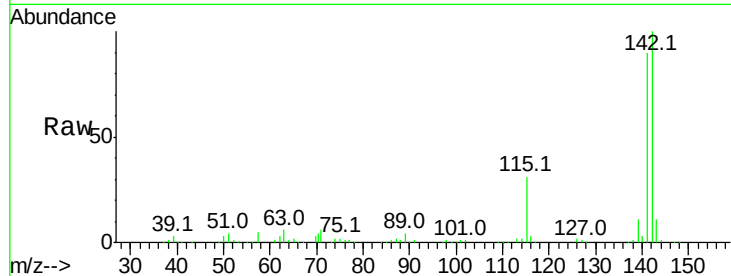
#37
2-Methylnaphthalene
Concen: 10.574 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.00 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Resp	Lower	Upper
142	100	164161		
141	90.1	70.8	106.2	
115	31.4	26.1	39.1	

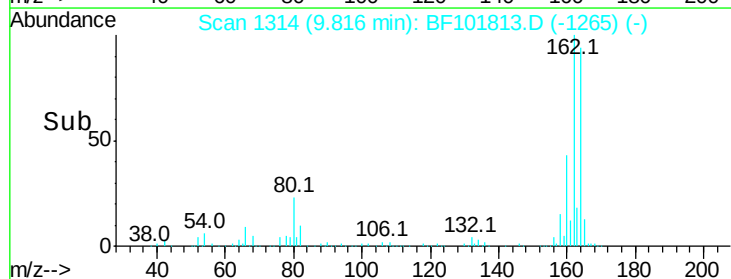
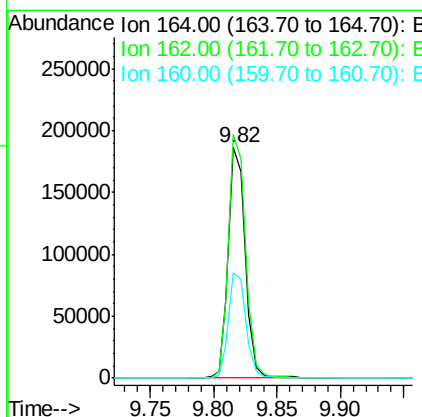
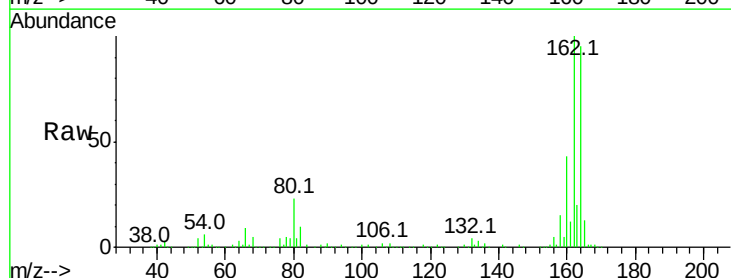
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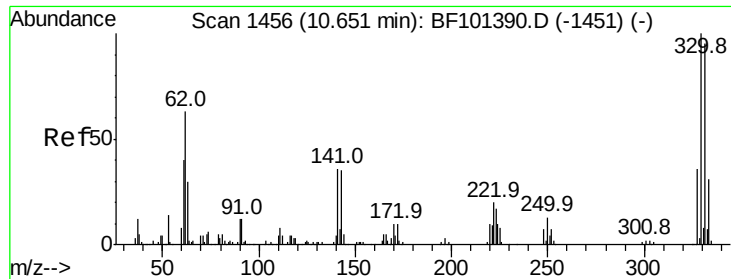
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	172702		
162	105.6	86.1	129.1	
160	45.4	38.3	57.5	





#41

2,4,6-Tribromophenol

Concen: 19.937 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.00 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Instrument :

BNA_F

ClientSampleId :

CS-TP-BANK-4

Tot Ion:330 Resp: 33178

Ion Ratio Lower Upper

330 100

332 93.6 77.0 115.6

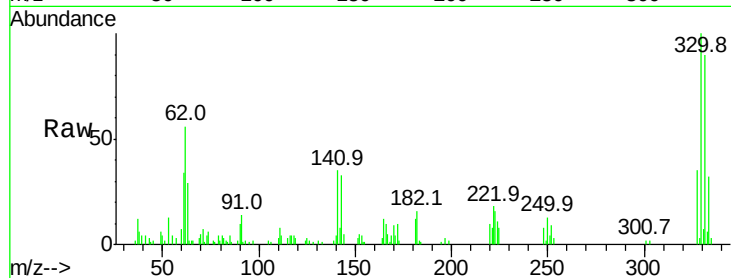
141 37.5 29.9 44.9

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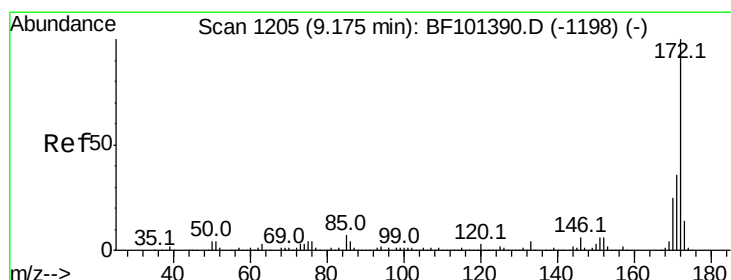
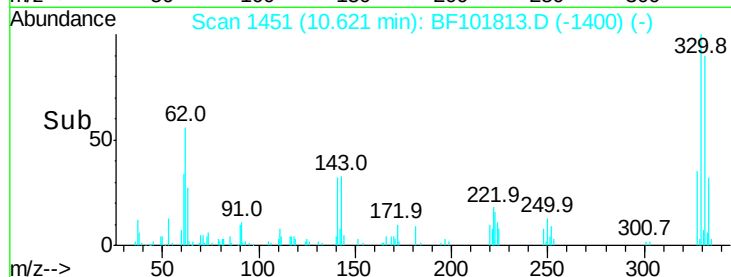
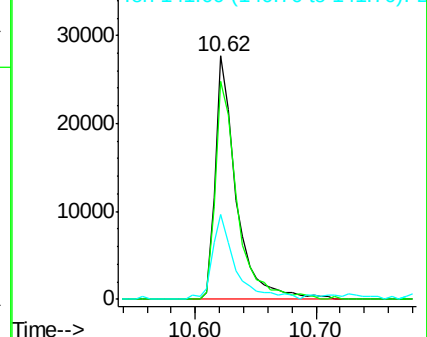
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Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 20.545 ng

RT: 9.13 min Scan# 1198

Delta R.T. -0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

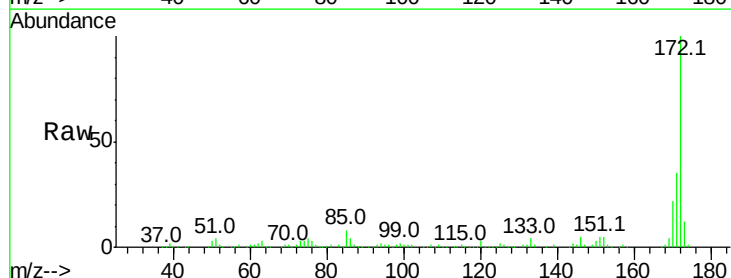
Tgt Ion:172 Resp: 228728

Ion Ratio Lower Upper

172 100

171 34.6 29.7 44.5

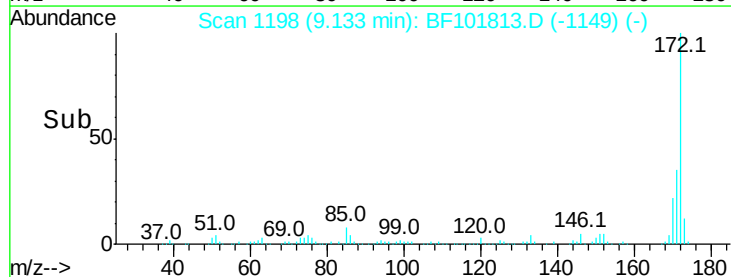
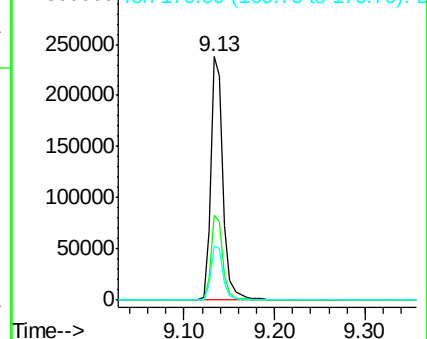
170 22.2 19.6 29.4

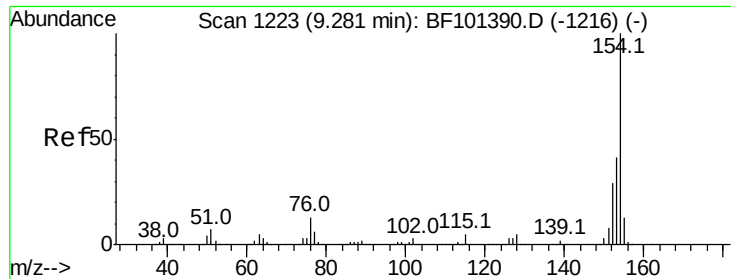


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 5.205 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Instrument :

BNA_F

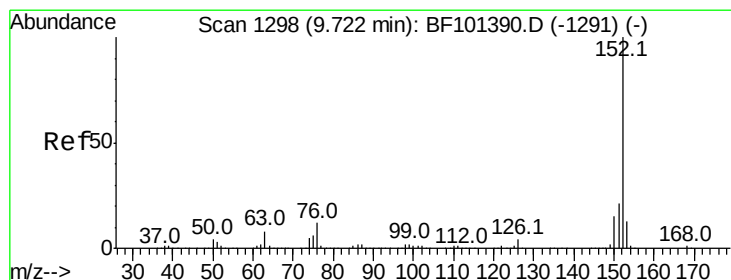
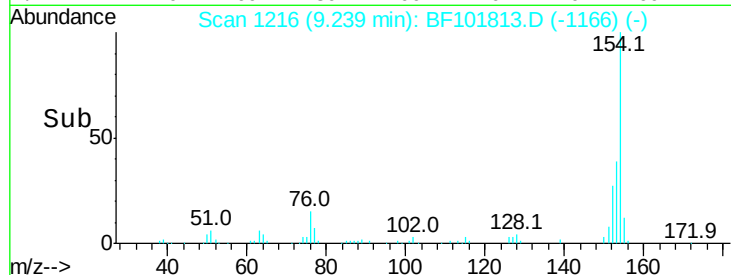
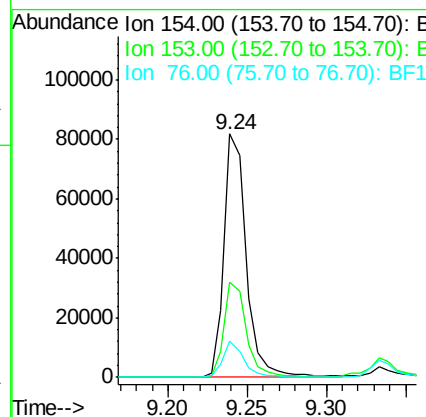
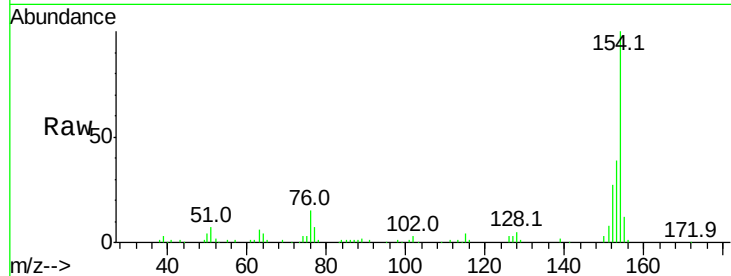
ClientSampled :

CS-TP-BANK-4

Tot Ion:	154	Resp:	79724
Ion Ratio	Lower	Upper	
154	100		
153	38.9	21.3	61.3
76	14.7	0.0	34.0

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#48

Acenaphthylene

Concen: 3.221 ng

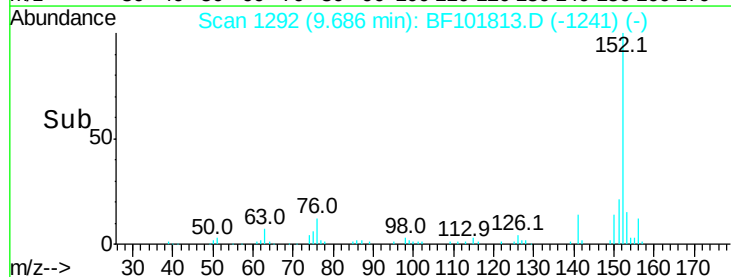
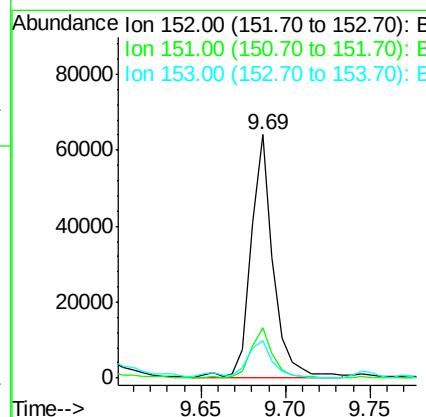
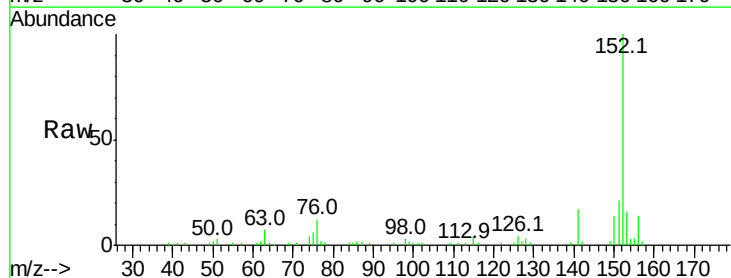
RT: 9.69 min Scan# 1292

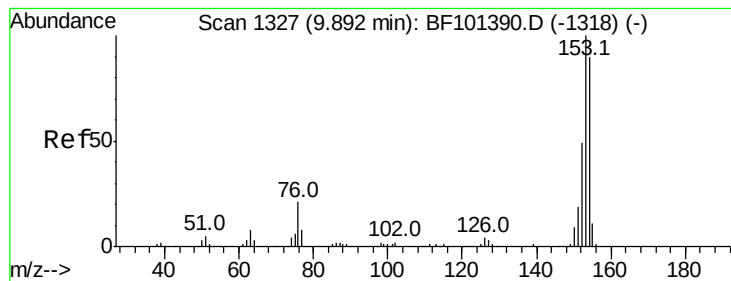
Delta R.T. -0.00 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Tgt Ion:	152	Resp:	59627
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	15.6	10.7	16.1





#51

Acenaphthene

Concen: 25.102 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Instrument :

BNA_F

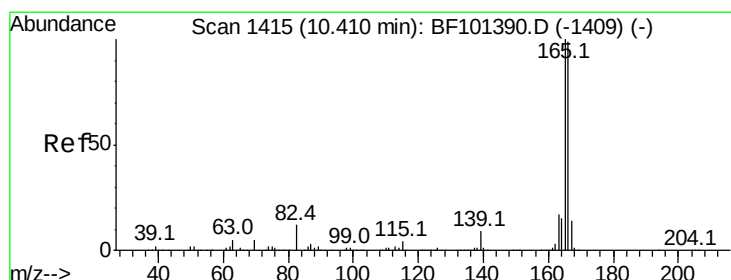
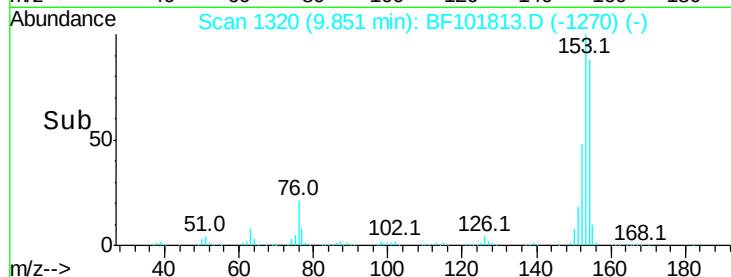
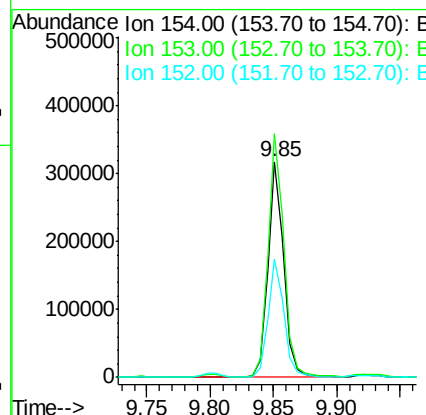
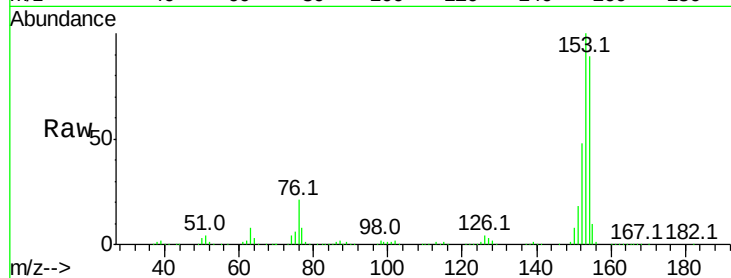
ClientSampleId :

CS-TP-BANK-4

Tot Ion:	154	Resp:	279158
Ion Ratio	Lower	Upper	
154	100		
153	112.8	91.2	136.8
152	54.5	43.8	65.8

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#57

Fluorene

Concen: 12.113 ng

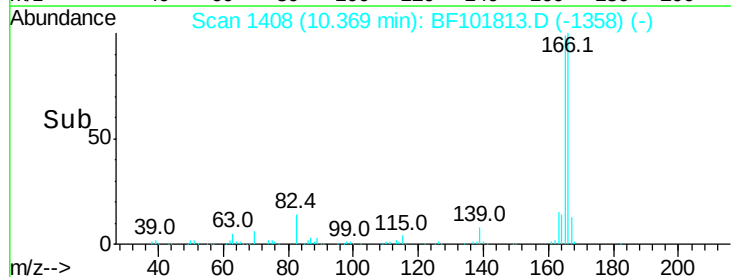
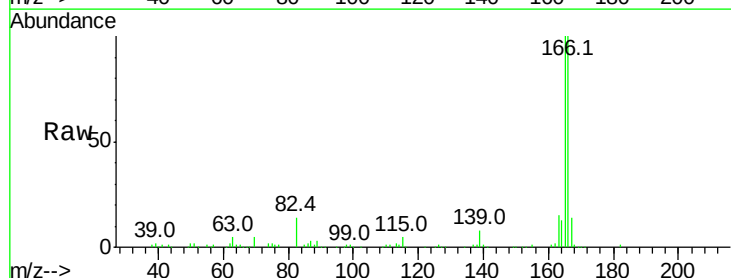
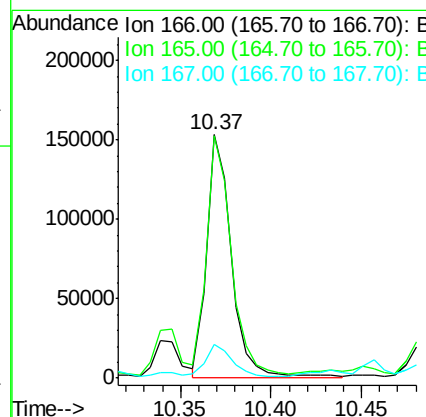
RT: 10.37 min Scan# 1408

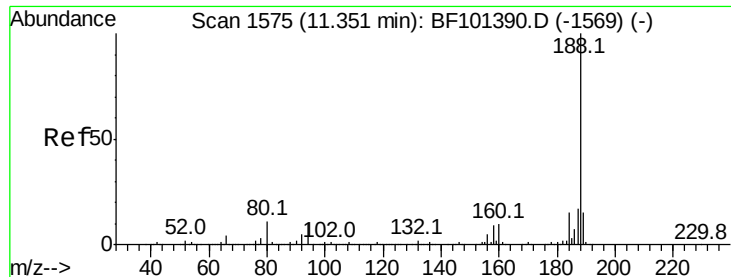
Delta R.T. -0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Tgt Ion:	166	Resp:	144812
Ion Ratio	Lower	Upper	
166	100		
165	99.6	79.8	119.8
167	13.8	10.6	16.0





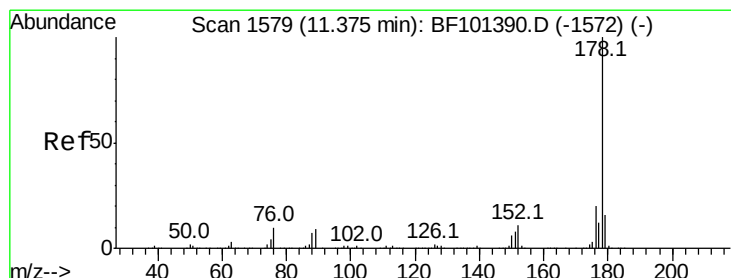
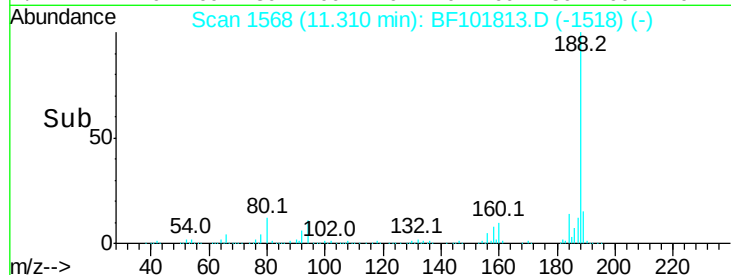
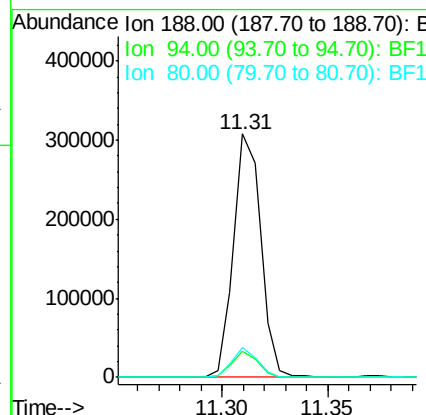
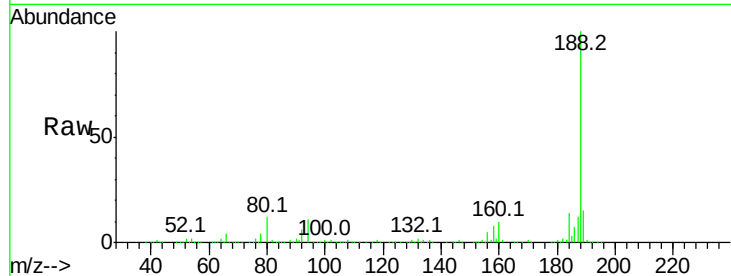
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Resp	Lower	Upper
188	100	275427		
94	10.5		8.5	12.7
80	12.3		9.2	13.8

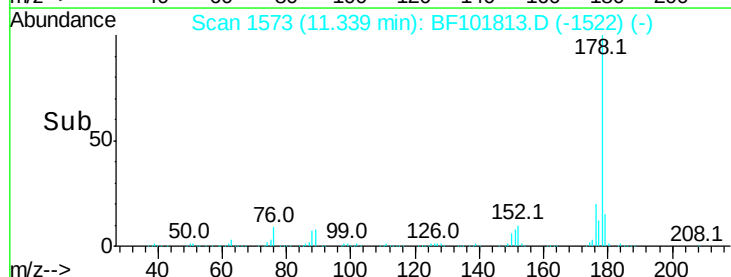
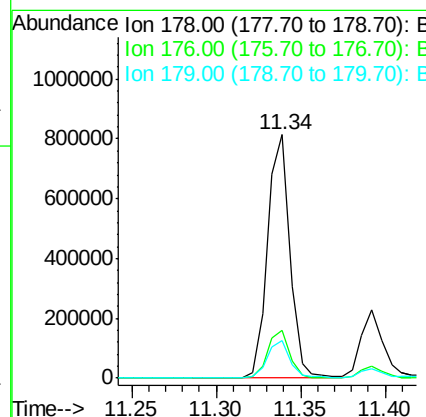
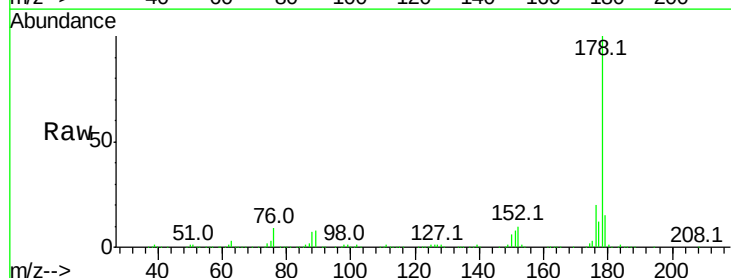
Manual Integrations
APPROVED

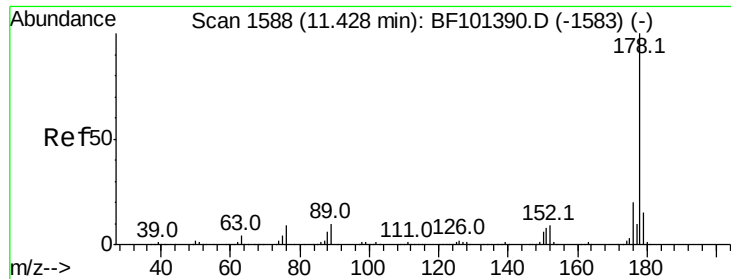
Sohil
12/29/2017 11:55:27 AM



#70
Phenanthrene
Concen: 48.764 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.00 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	746907		
176	19.7		15.8	23.8
179	15.2		13.0	19.6





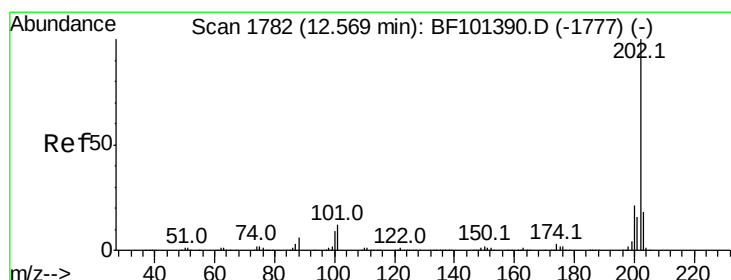
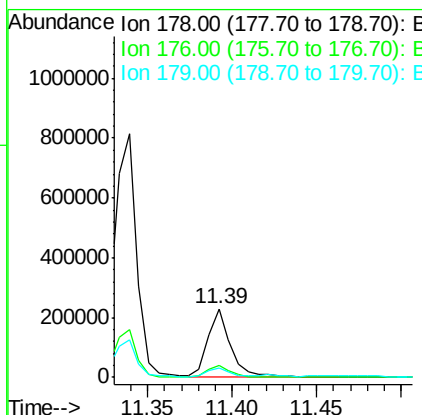
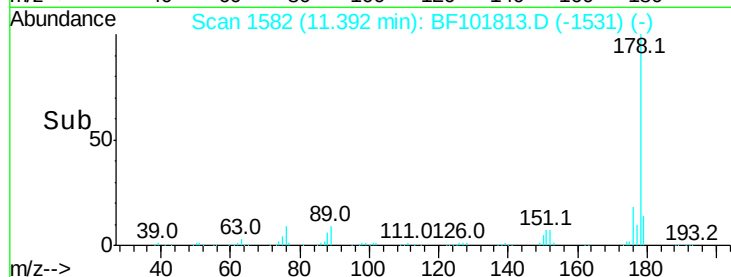
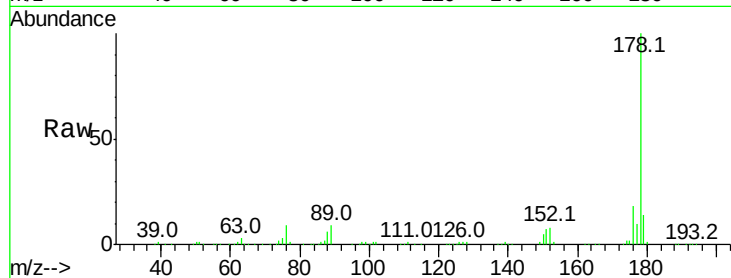
#71
 Anthracene
 Concen: 13.570 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: BF101813.D
 Acq: 28 Dec 2017 20:06

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	14.4	12.6	19.0

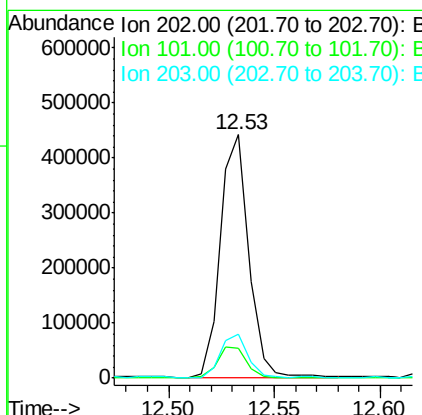
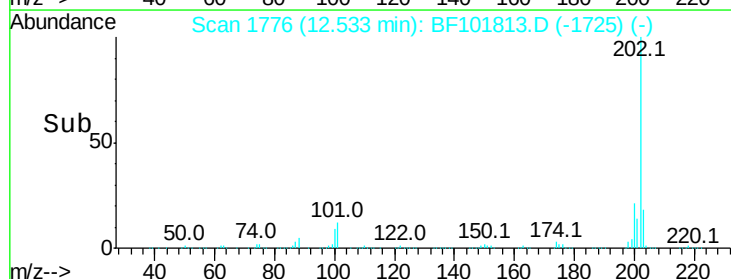
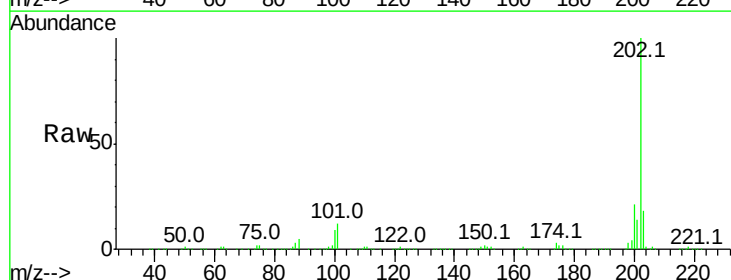
Manual Integrations
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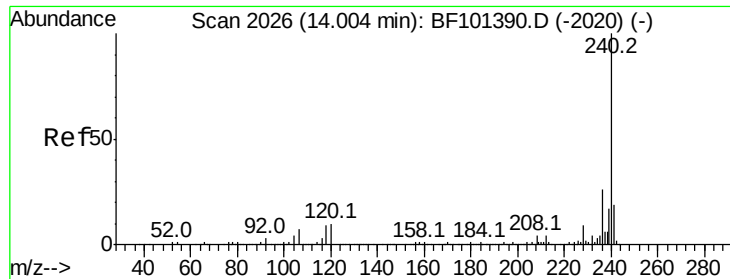
Sohil
 12/29/2017 11:55:27 AM



#74
 Fluoranthene
 Concen: 25.470 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. -0.00 min
 Lab File: BF101813.D
 Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Instrument :

BNA_F

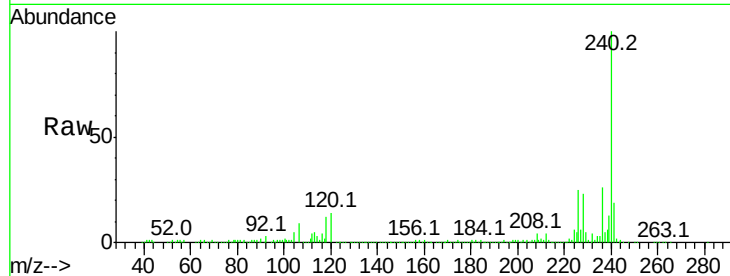
ClientSampleId :

CS-TP-BANK-4

Tot Ion	Ratio	Resp	Lower	Upper
240	100	292648		
120	13.6		9.5	14.3
236	26.5		20.7	31.1

Manual Integrations
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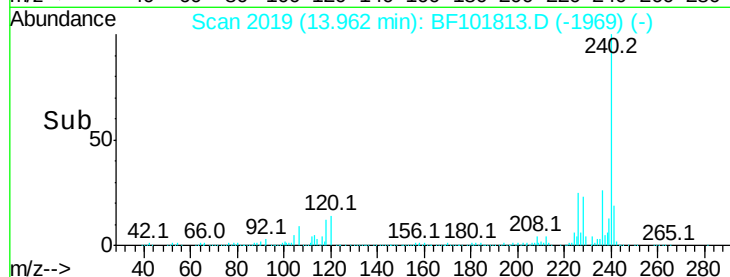


Abundance Ion 240.00 (239.70 to 240.70): E

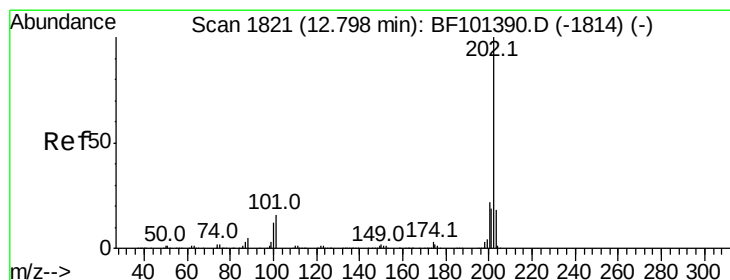
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.96



Time-->



#77

Pyrene

Concen: 26.299 ng

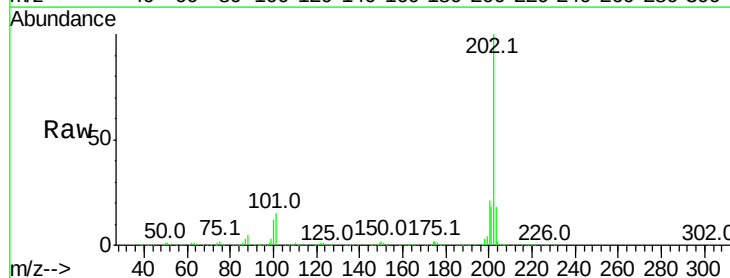
RT: 12.76 min Scan# 1815

Delta R.T. -0.00 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	577604		
200	21.4		17.4	26.2
203	17.6		14.3	21.5

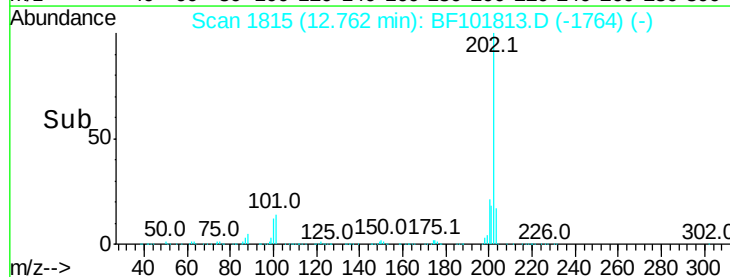


Abundance Ion 202.00 (201.70 to 202.70): E

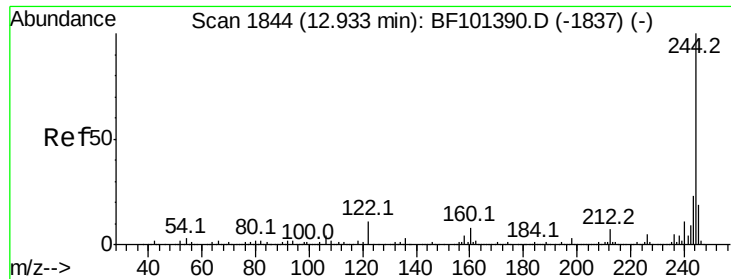
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.76



Time-->



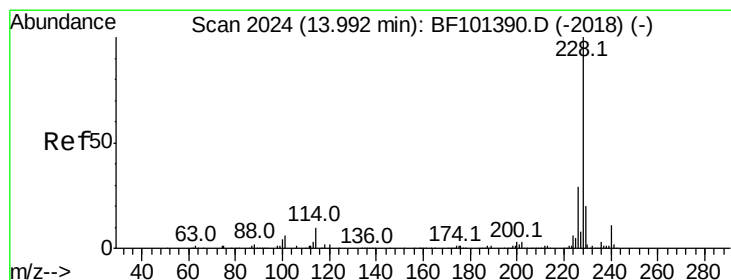
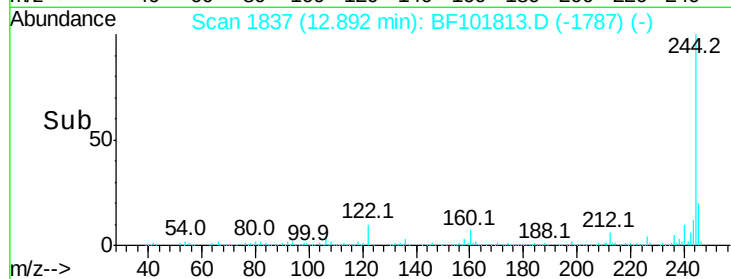
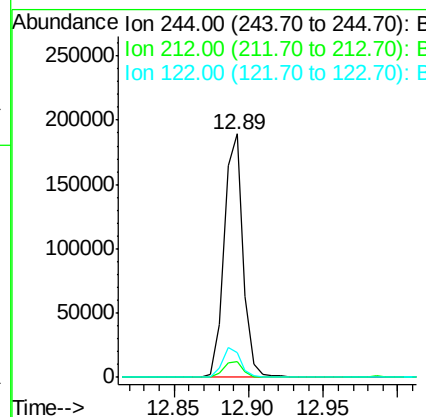
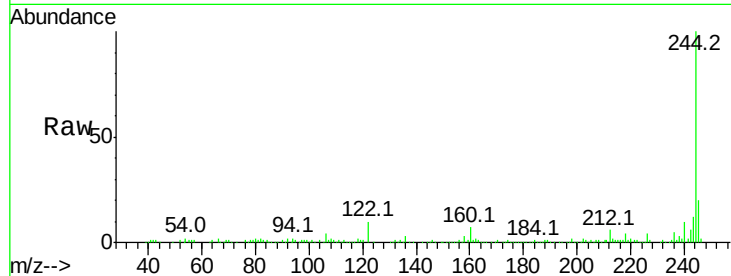
#78
 Terphenyl-d14
 Concen: 13.937 ng
 RT: 12.89 min Scan# 1837
 Delta R.T. -0.01 min
 Lab File: BF101813.D
 Acq: 28 Dec 2017 20:06

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	10.2	11.0	16.4

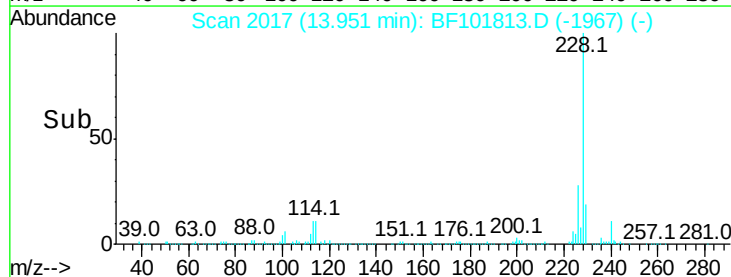
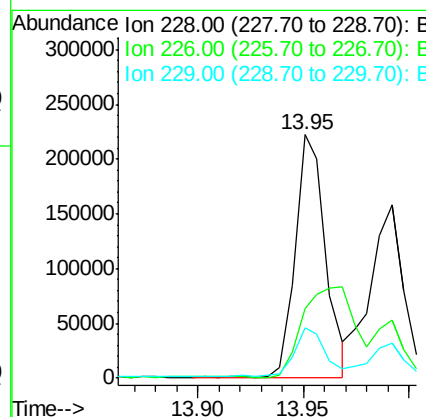
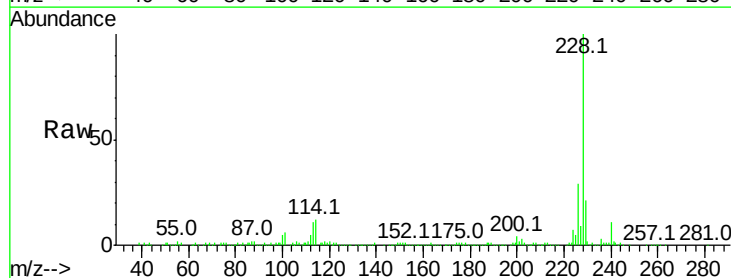
Manual Integrations
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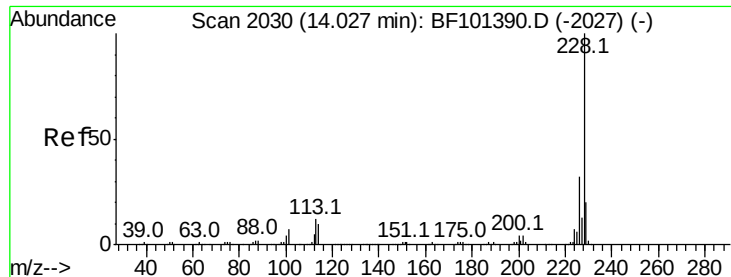
Sohil
 12/29/2017 11:55:27 AM



#80
 Benzo(a)anthracene
 Concen: 11.348 ng
 RT: 13.95 min Scan# 2017
 Delta R.T. -0.01 min
 Lab File: BF101813.D
 Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	20.9	15.8	23.6





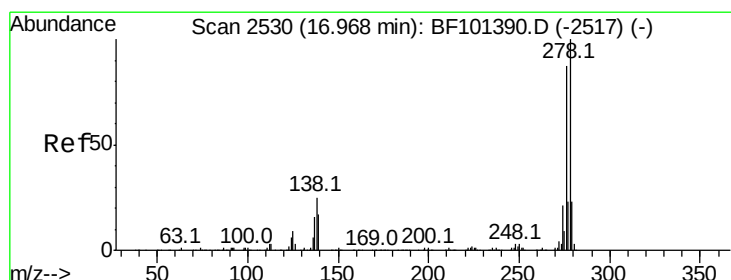
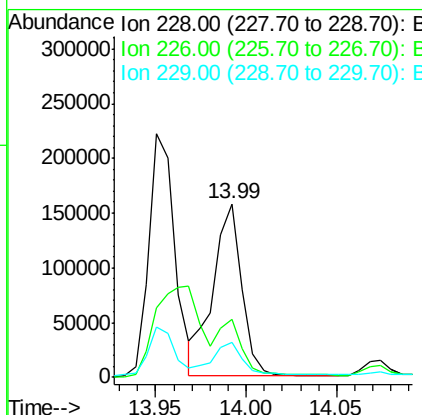
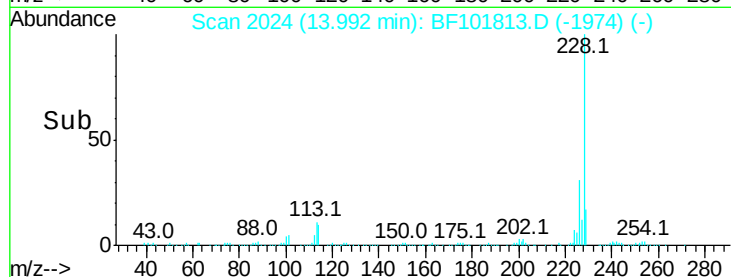
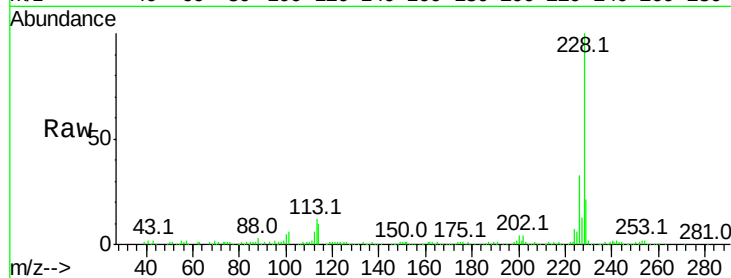
#82
Chrysene
Concen: 9.588 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.1	25.0	37.6
229	20.5	16.2	24.4

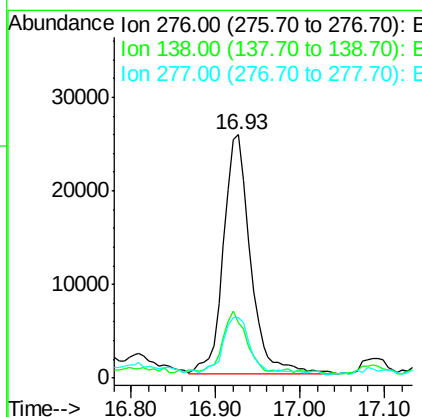
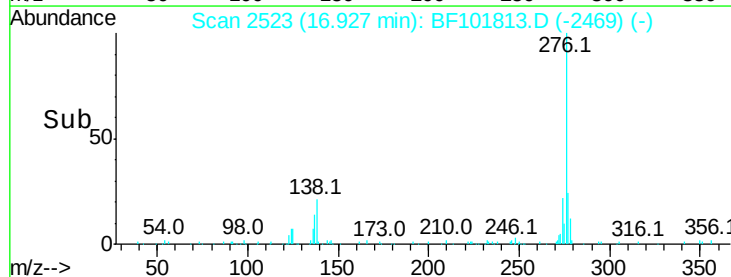
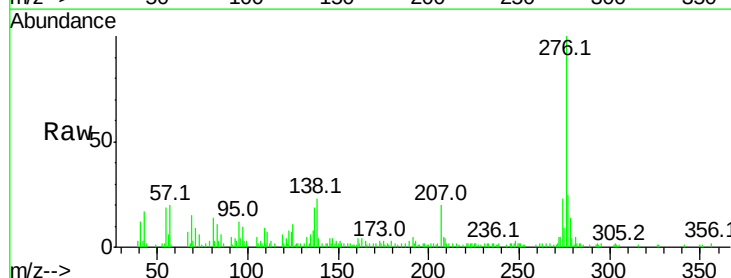
Manual Integrations
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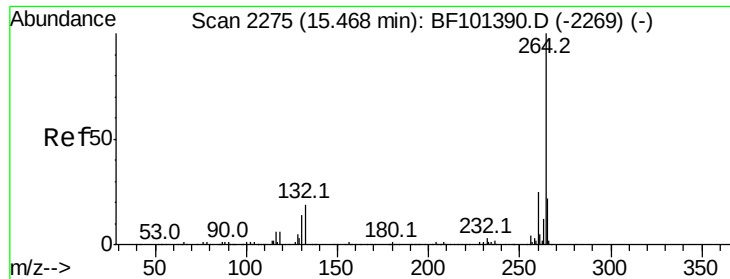
Sohil
12/29/2017 11:55:27 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.468 ng
RT: 16.93 min Scan# 2523
Delta R.T. 0.02 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.1	25.0	37.6#
277	21.3	20.1	30.1





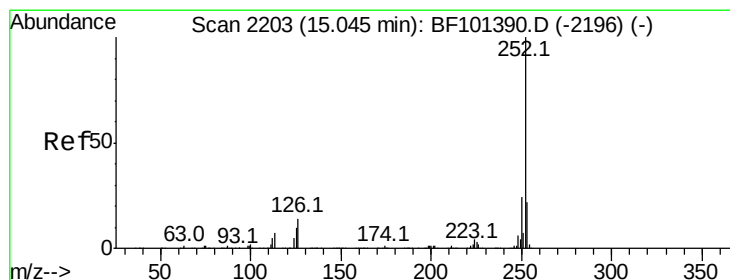
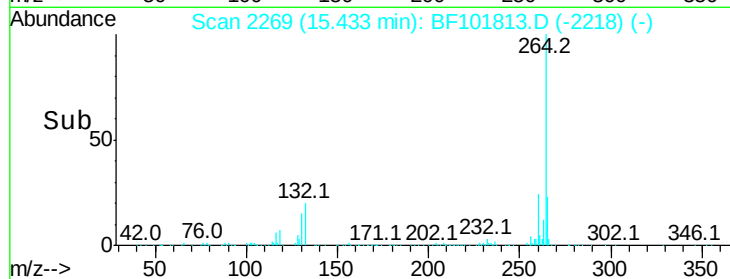
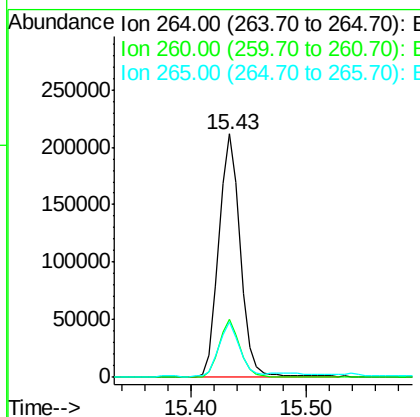
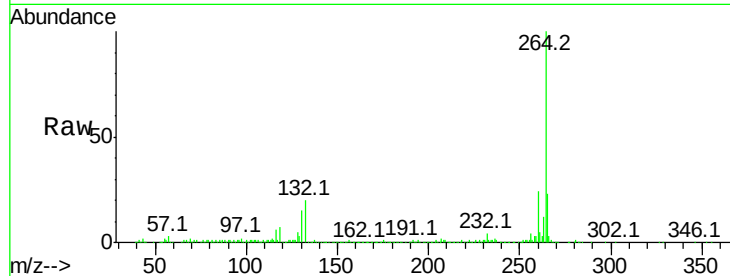
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.00 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.9	17.5	26.3

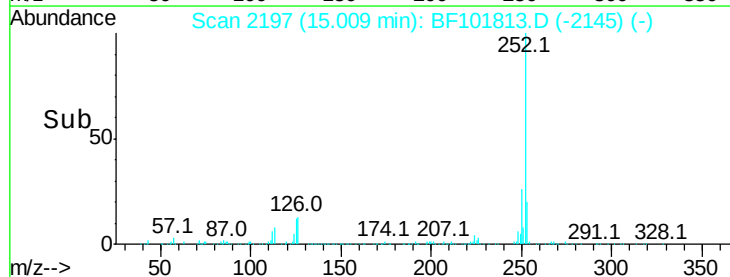
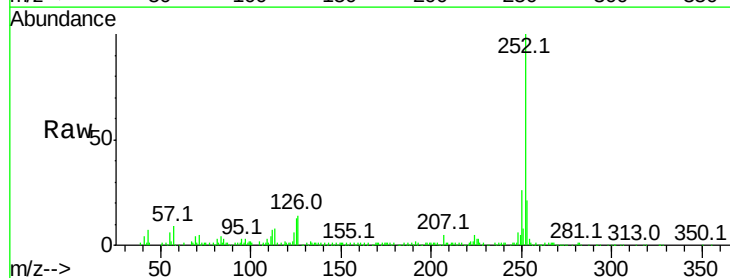
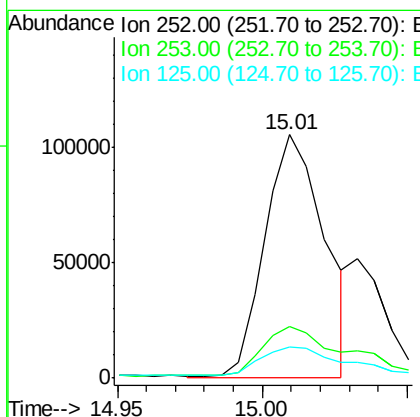
Manual Integrations
APPROVED

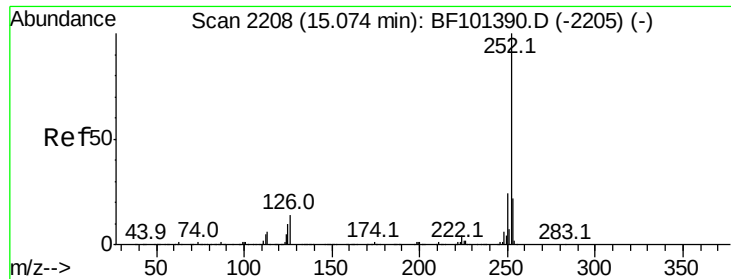
Sohil
12/29/2017 11:55:27 AM



#87
Benzo(b)fluoranthene
Concen: 9.053 ng m
RT: 15.01 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.0	25.6
125	13.0	9.0	13.6





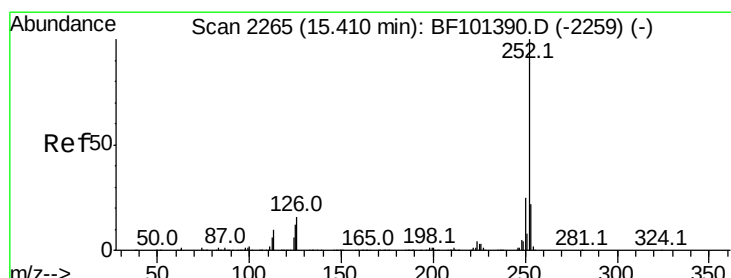
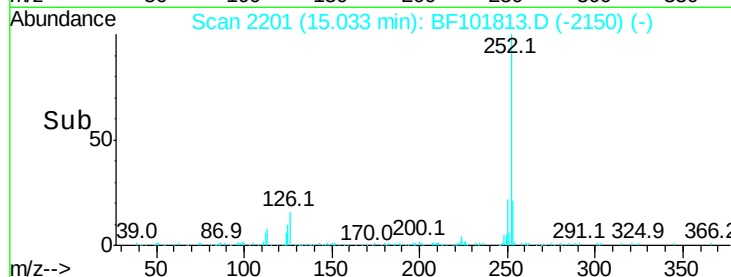
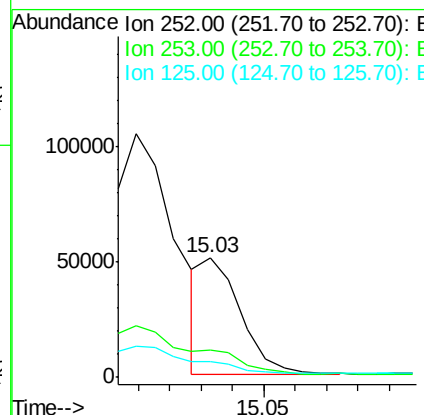
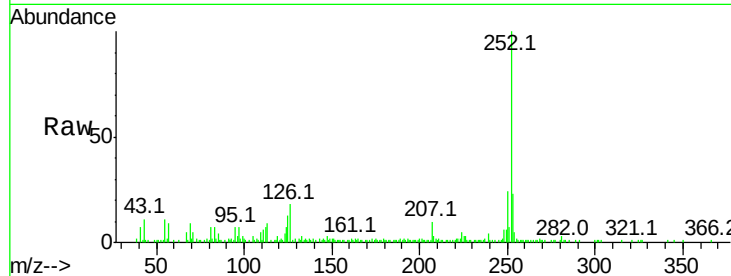
#88
Benzo(k)fluoranthene
Concen: 2.711 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.00 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	12.9	10.2	15.2

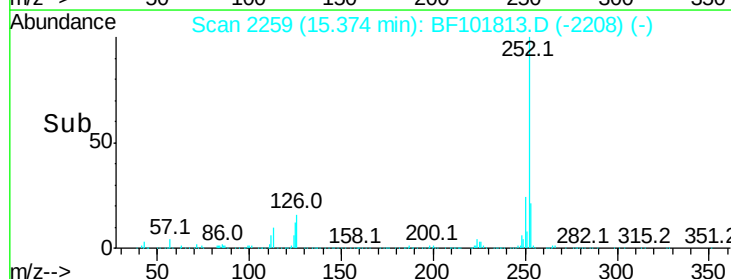
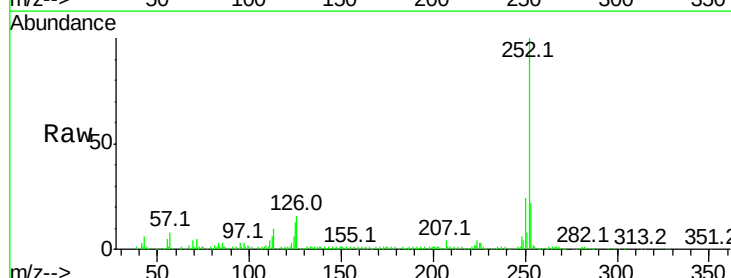
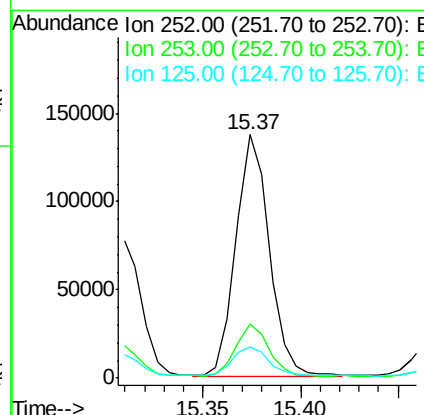
Manual Integrations
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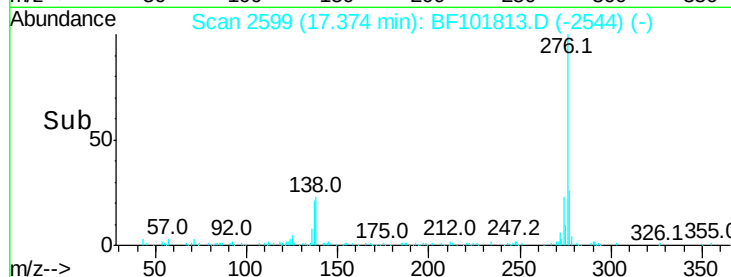
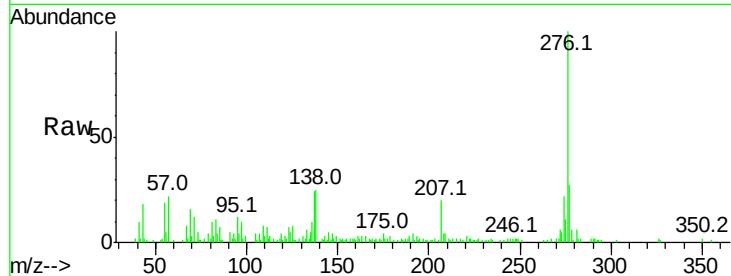
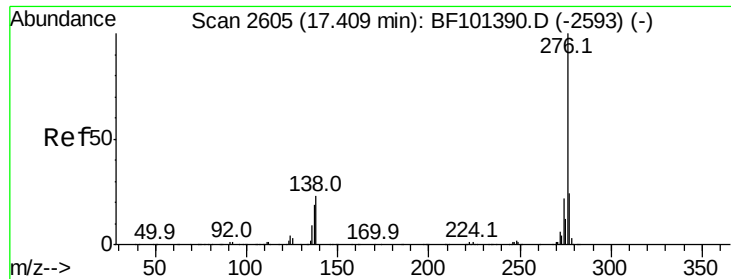
Sohil
12/29/2017 11:55:27 AM



#89
Benzo(a)pyrene
Concen: 10.753 ng
RT: 15.37 min Scan# 2259
Delta R.T. -0.00 min
Lab File: BF101813.D
Acq: 28 Dec 2017 20:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.1	25.7
125	13.0	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 4.702 ng

RT: 17.37 min Scan# 2599

Delta R.T. 0.02 min

Lab File: BF101813.D

Acq: 28 Dec 2017 20:06

Tot Ion:	276	Resp:	61316
Ion Ratio	Lower	Upper	
276	100		
277	27.2	17.9	26.9#
138	24.7	21.8	32.8

Instrument :

BNA_F

ClientSampleId :

CS-TP-BANK-4

Manual Integrations
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Sohil
12/29/2017 11:55:27 AM

