

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
 Data File : BF107720.D
 Acq On : 27 Jul 2018 00:31
 Operator : JU/SJ
 Sample : J4121-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(3-5)

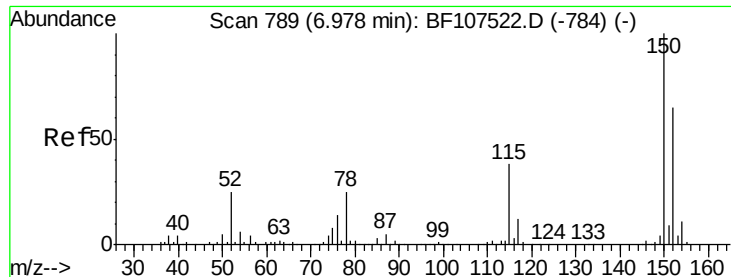
Manual Integrations
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 7/27/2018 2:54:17 PM

Quant Time: Jul 27 06:00:08 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	206815	20.00	ng	-0.02
21) Naphthalene-d8	8.24	136	853139	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	361455	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	567395	20.00	ng	-0.02
75) Chrysene-d12	14.15	240	447013	20.00	ng	-0.02
86) Perylene-d12	15.68	264	508057	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	1278140	99.36	ng	0.00
7) Phenol-d6	6.60	99	1535683	99.43	ng	-0.01
23) Nitrobenzene-d5	7.52	82	1010877	79.97	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	389997	94.88	ng	-0.02
44) 2-Fluorobiphenyl	9.31	172	1400791	61.28	ng	-0.02
78) Terphenyl-d14	13.08	244	914219	52.36	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.27	128	231503	6.171	ng	98
37) 2-Methylnaphthalene	8.95	142	72757	2.799	ng	97
48) Acenaphthylene	9.86	152	113783	3.147	ng	98
49) Dimethylphthalate	9.71	163	127461	4.679	ng	98
51) Acenaphthene	10.03	154	138751	6.125	ng	96
54) Dibenzofuran	10.21	168	161993	4.857	ng	99
57) Fluorene	10.55	166	262650	11.039	ng	96
70) Phenanthrene	11.52	178	1017277	36.792	ng	99
71) Anthracene	11.57	178	397633	14.283	ng	99
72) Carbazole	11.74	167	145477	5.025	ng	98
74) Fluoranthene	12.71	202	1085723	36.594	ng	97
77) Pyrene	12.95	202	965796	31.587	ng	97
80) Benzo(a)anthracene	14.14	228	598267	22.838	ng	93
82) Chrysene	14.18	228	594736	23.635	ng	98
85) Indeno(1,2,3-cd)pyrene	17.25	276	268544	12.592	ng	# 89
87) Benzo(b)fluoranthene	15.22	252	716362m	25.763	ng	
88) Benzo(k)fluoranthene	15.25	252	299068m	10.978	ng	
89) Benzo(a)pyrene	15.61	252	555047	21.823	ng	96
90) Dibenzo(a,h)anthracene	17.25	278	62743m	2.854	ng	
91) Benzo(g,h,i)perylene	17.72	276	252792m	11.656	ng	

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



#1

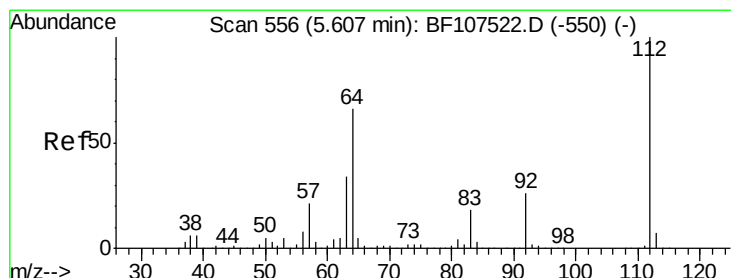
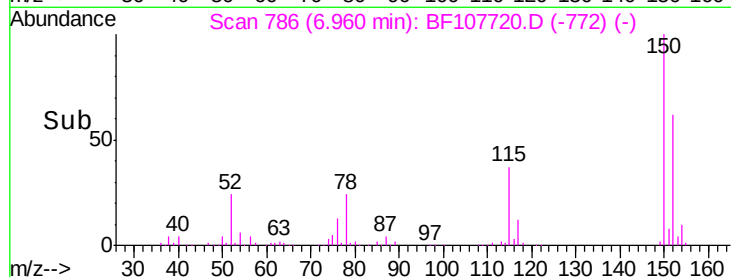
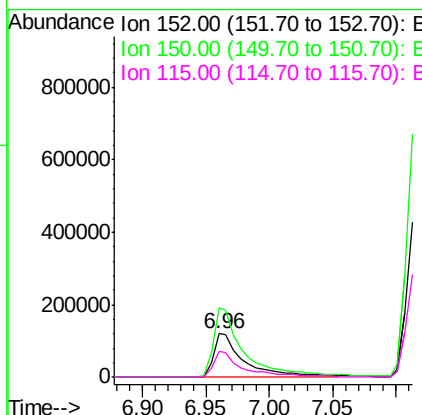
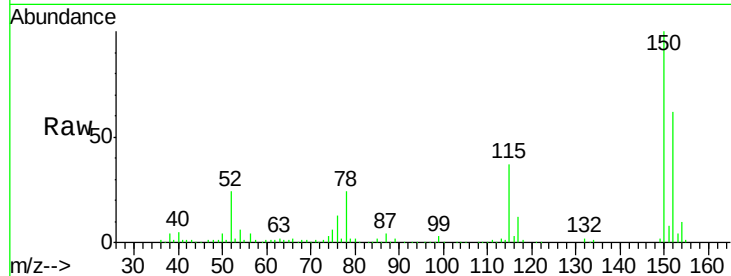
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Instrument :
BNA_F
ClientSampled :
SB-9(3-5)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.3	124.6	186.8
115	59.2	50.1	75.1

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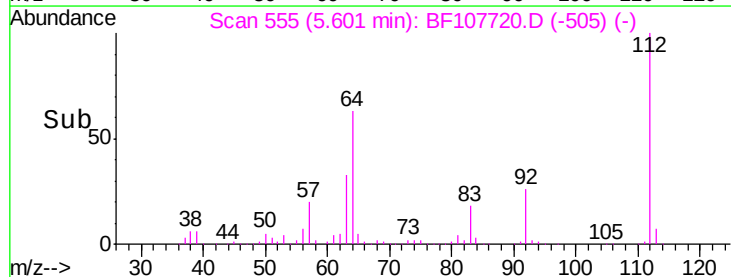
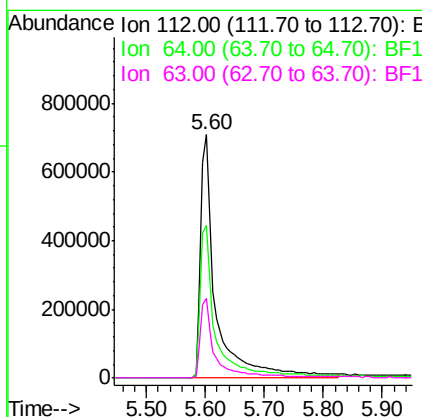
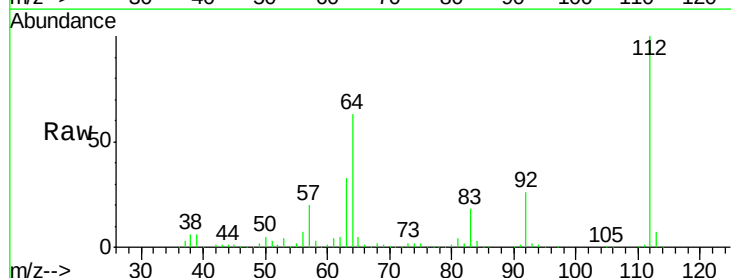
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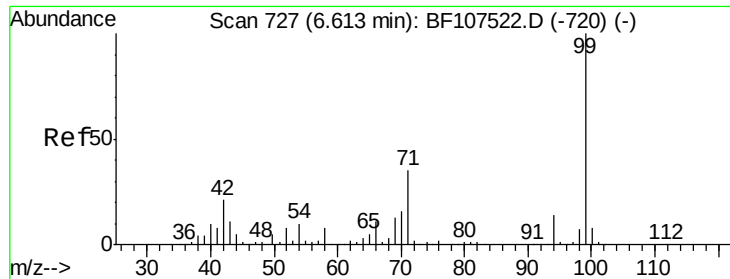


#5

2-Fluorophenol
Concen: 99.364 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.9	47.9	71.9
63	32.7	23.7	35.5





#7

Phenol-d6

Concen: 99.427 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

ClientSampleId :

SB-9(3-5)

Tgt Ion: 99 Resp: 1535683

Ion Ratio Lower Upper

99 100

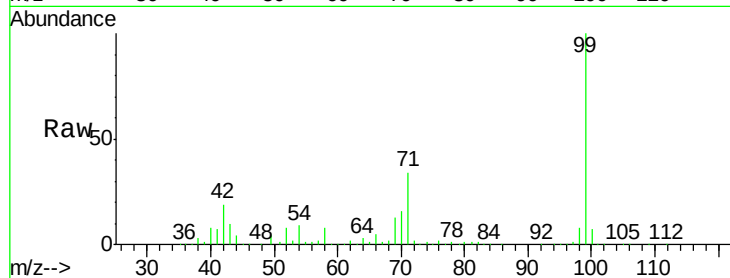
42 19.2 14.5 21.7

71 34.5 25.4 38.0

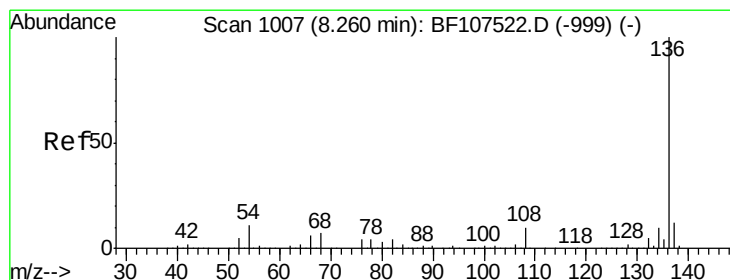
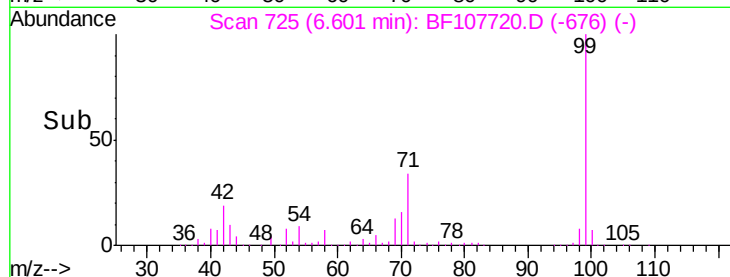
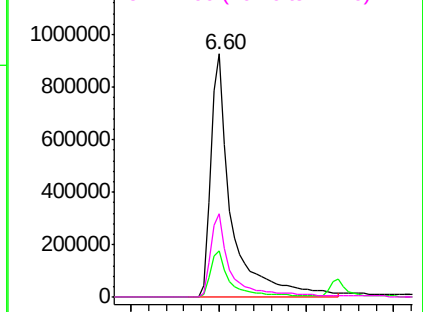
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Tgt Ion: 136 Resp: 853139

Ion Ratio Lower Upper

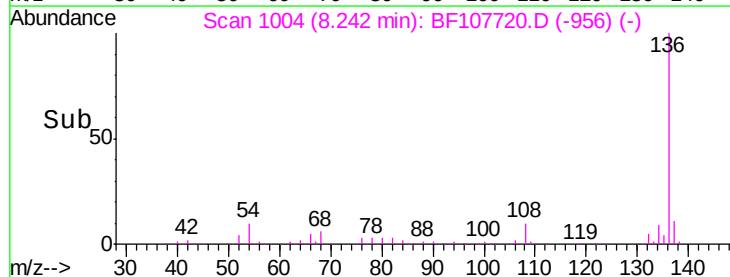
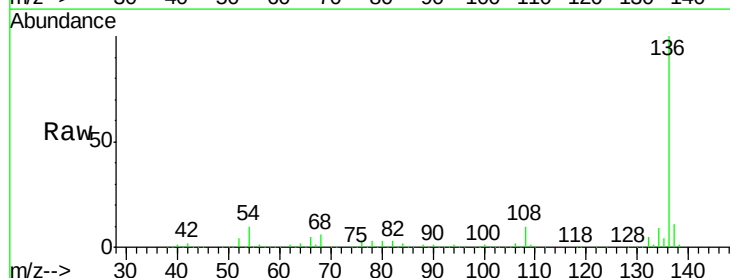
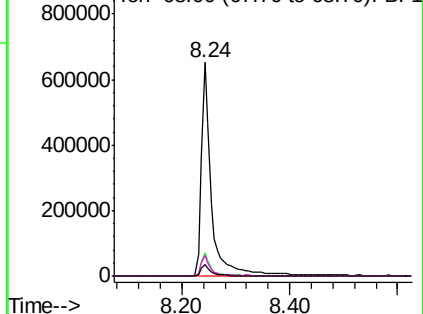
136 100

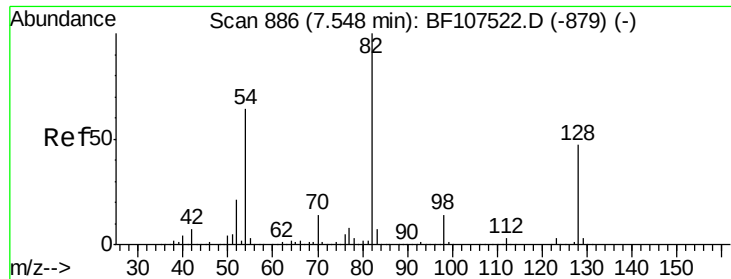
137 10.7 8.9 13.3

54 9.8 6.6 9.8#

68 5.6 5.0 7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





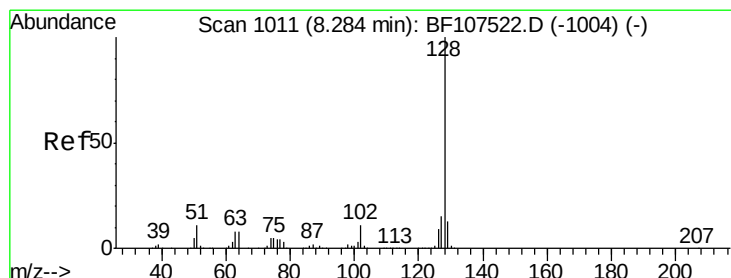
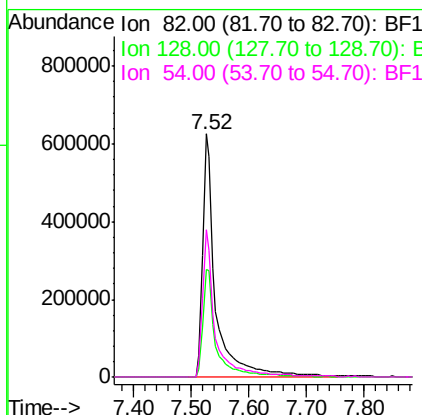
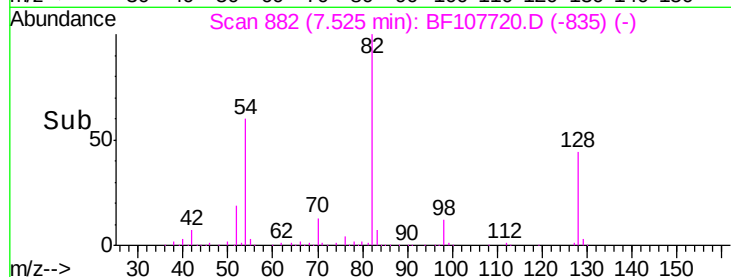
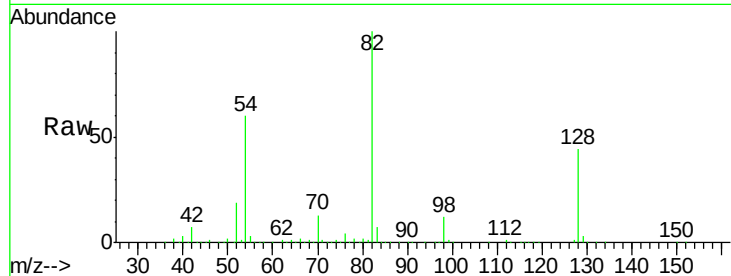
#23
Nitrobenzene-d5
Concen: 79.966 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Instrument :
BNA_F
ClientSampled :
SB-9(3-5)

Tgt Ion: 82 Resp: 1010877
Ion Ratio Lower Upper
82 100
128 44.5 36.1 54.1
54 60.4 41.4 62.2

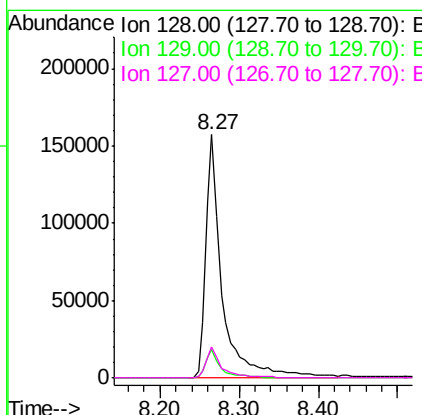
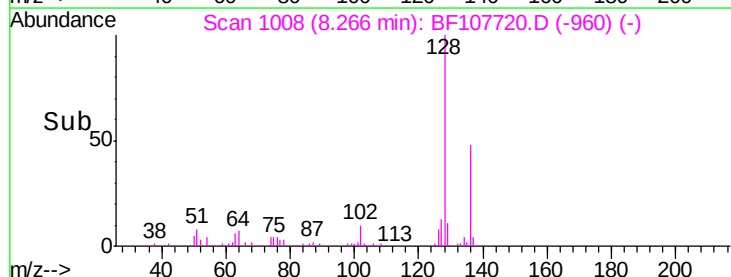
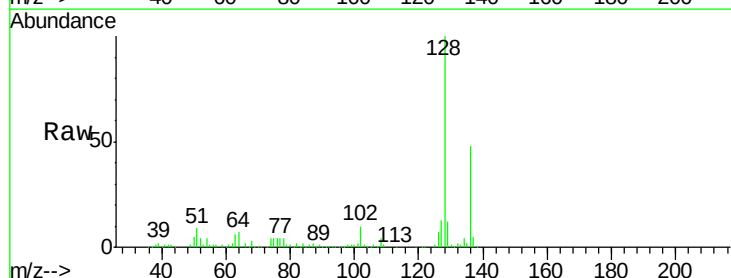
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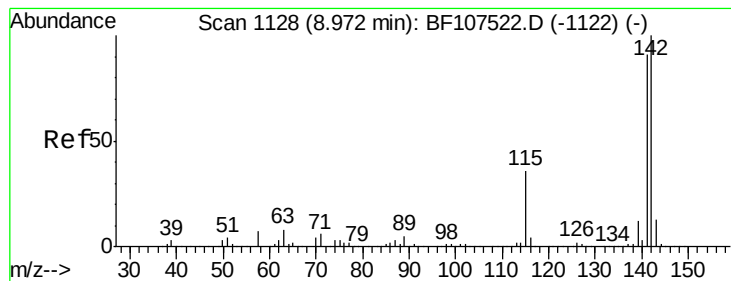
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#31
Naphthalene
Concen: 6.171 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Tgt Ion: 128 Resp: 231503
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 12.9 10.9 16.3





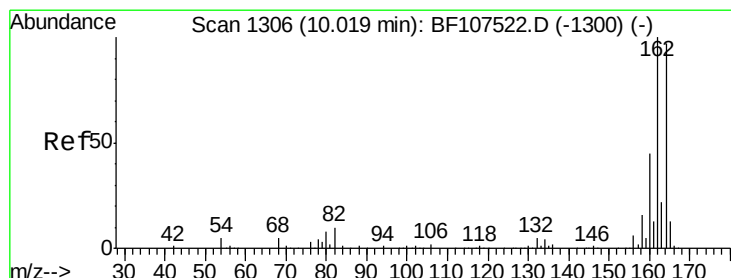
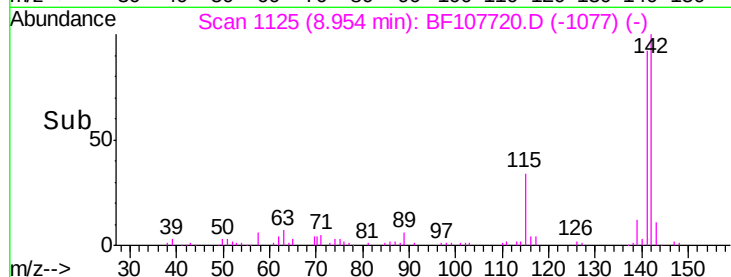
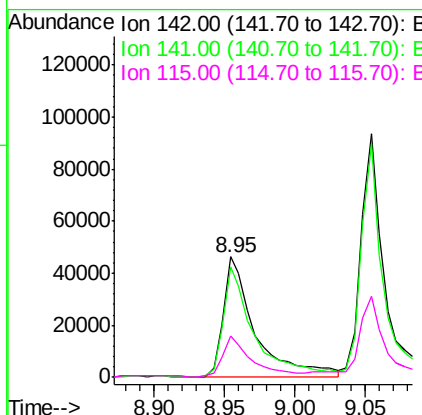
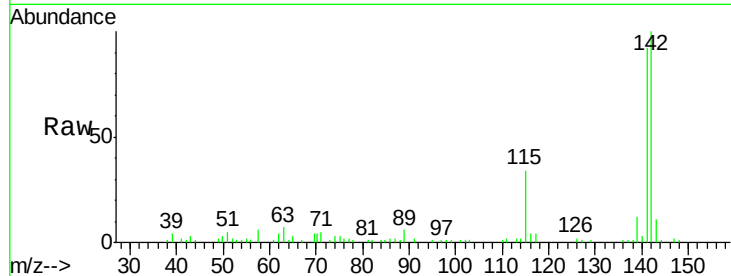
#37
 2-Methylnaphthalene
 Concen: 2.799 ng
 RT: 8.95 min Scan# 1125
 Delta R.T. -0.02 min
 Lab File: BF107720.D
 Acq: 27 Jul 2018 00:31

Instrument :
 BNA_F
 ClientSampled :
 SB-9(3-5)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.7	70.8	106.2
115	34.1	26.1	39.1

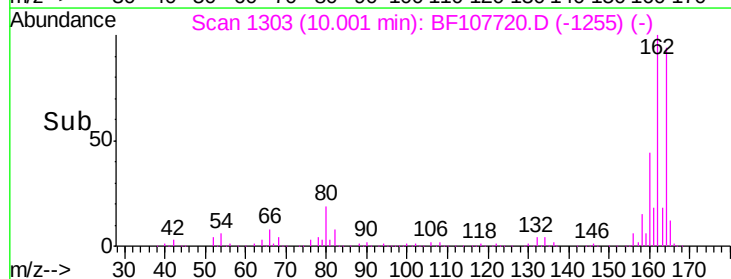
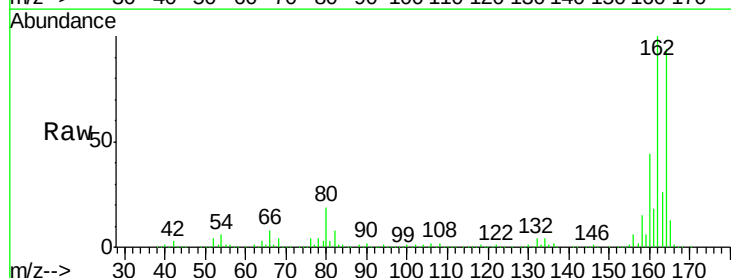
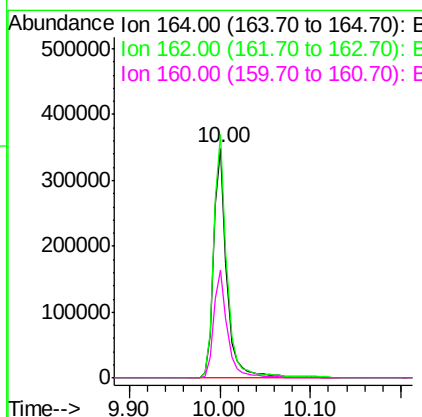
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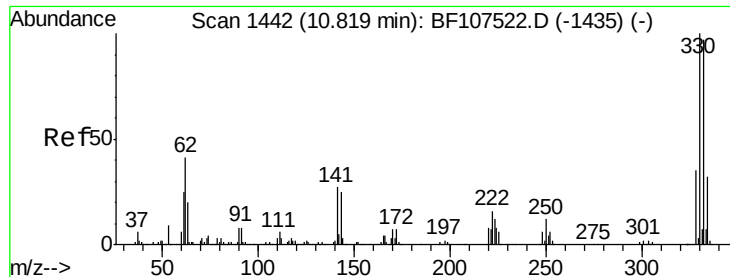
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.02 min
 Lab File: BF107720.D
 Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.0	86.1	129.1
160	46.8	38.3	57.5





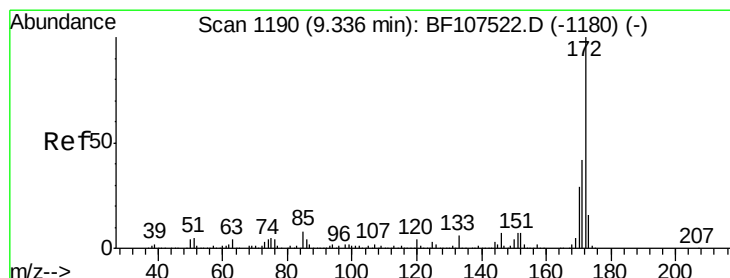
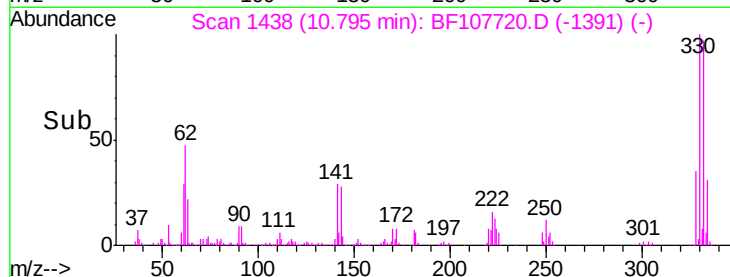
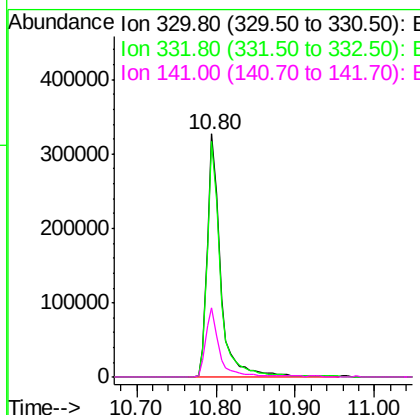
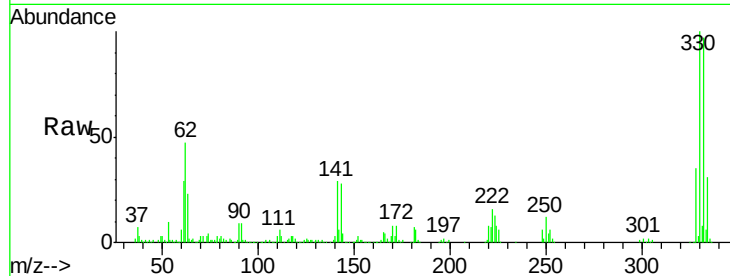
#41
 2,4,6-Tribromophenol
 Concen: 94.883 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.02 min
 Lab File: BF107720.D
 Acq: 27 Jul 2018 00:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	389997		
332	97.2	77.0	115.6	
141	28.3	29.9	44.9	

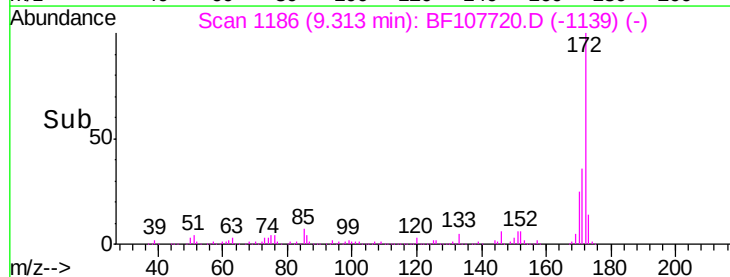
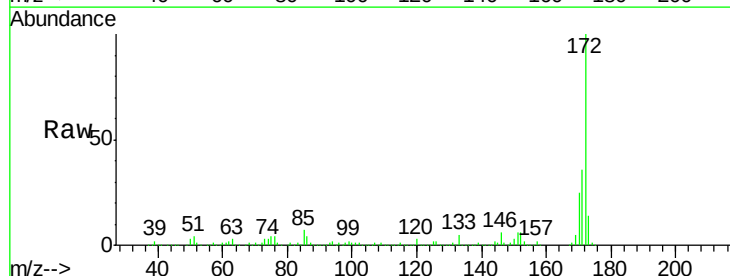
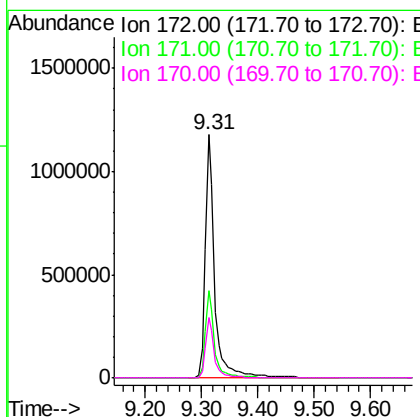
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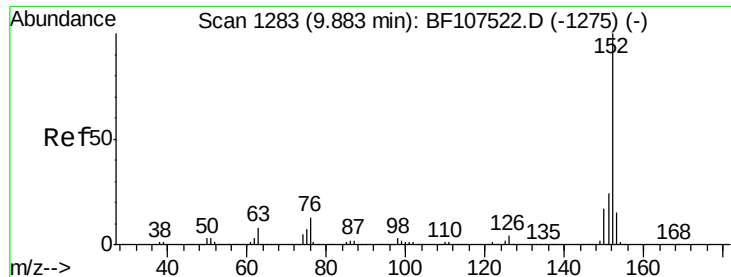
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#44
 2-Fluorobiphenyl
 Concen: 61.283 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.02 min
 Lab File: BF107720.D
 Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1400791		
171	36.0	29.7	44.5	
170	24.9	19.6	29.4	





#48

Acenaphthylene

Concen: 3.147 ng

RT: 9.86 min Scan# 1279

Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

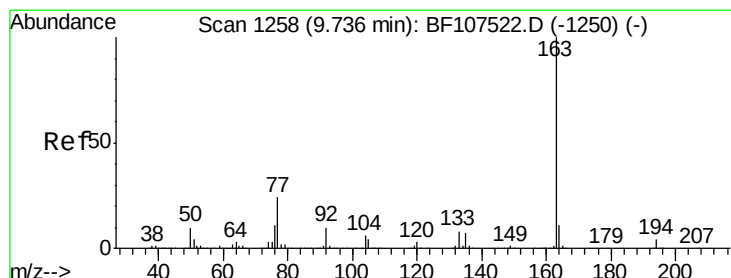
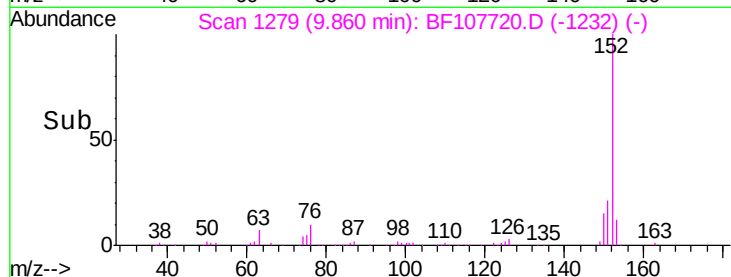
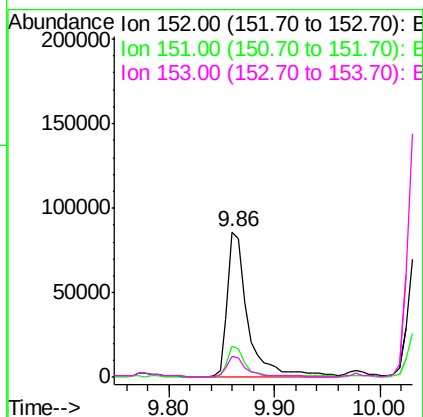
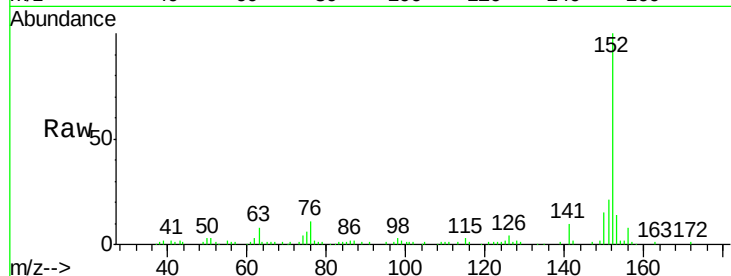
ClientSampleId :

SB-9(3-5)

Tgt Ion:	152	Resp:	113783
Ion Ratio	Lower	Upper	
152	100		
151	21.5	16.3	24.5
153	13.9	10.7	16.1

Manual Integrations
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#49

Dimethylphthalate

Concen: 4.679 ng

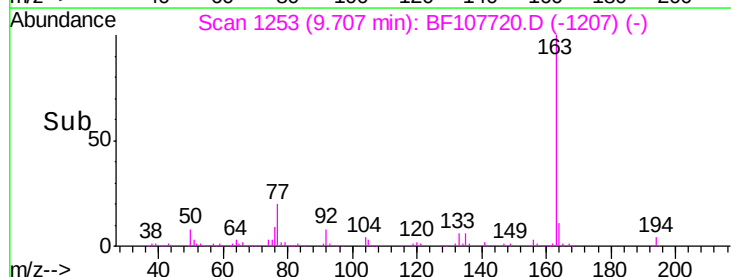
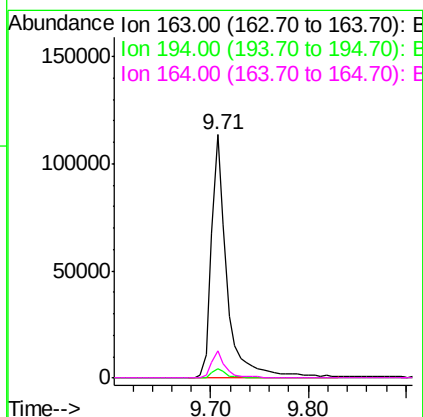
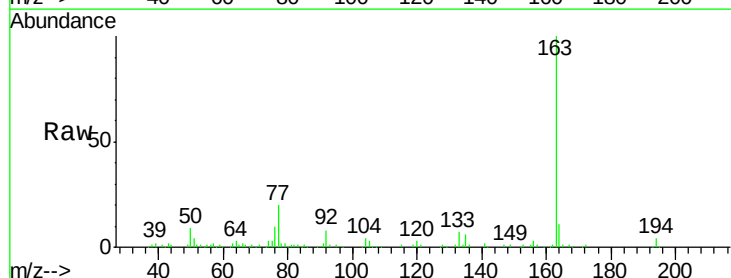
RT: 9.71 min Scan# 1253

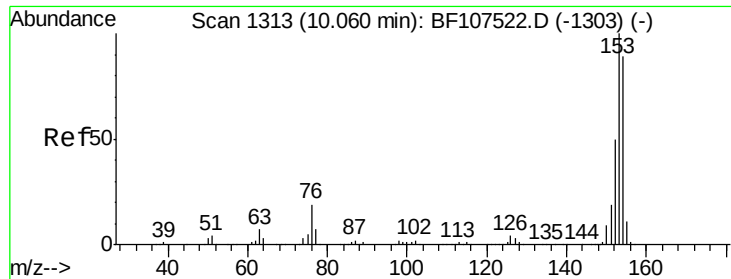
Delta R.T. -0.03 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Tgt Ion:	163	Resp:	127461
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.7	4.1
164	11.0	8.2	12.2





#51

Acenaphthene

Concen: 6.125 ng

RT: 10.03 min Scan# 1308

Delta R.T. -0.03 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

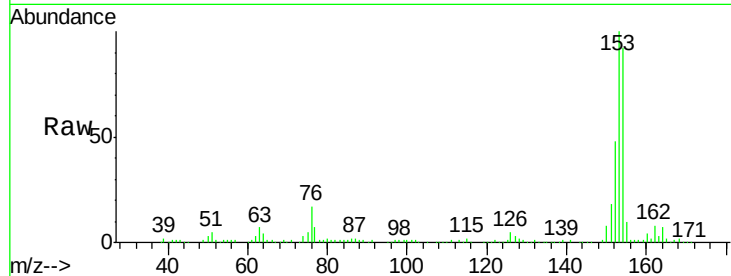
ClientSampleId :

SB-9(3-5)

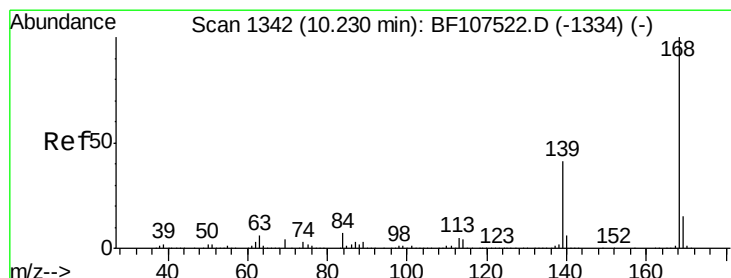
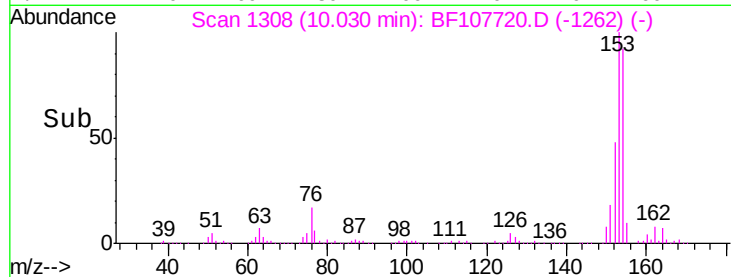
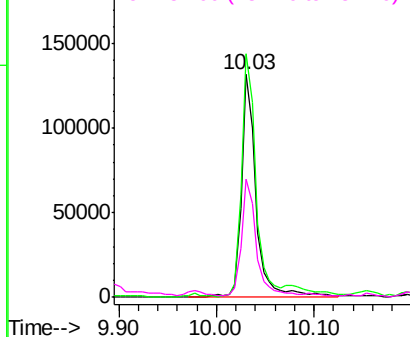
Tgt Ion:	154	Resp:	138751
Ion Ratio	Lower	Upper	
154	100		
153	109.3	91.2	136.8
152	52.9	43.8	65.8

Manual Integrations
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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: 4.857 ng

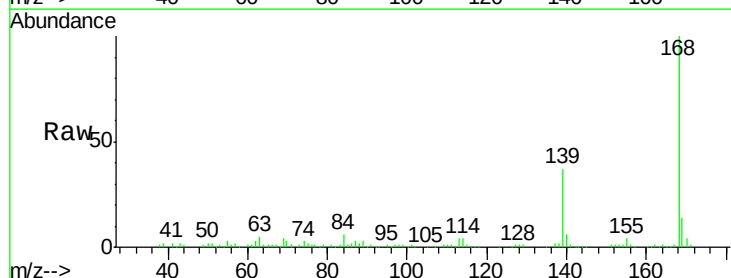
RT: 10.21 min Scan# 1338

Delta R.T. -0.02 min

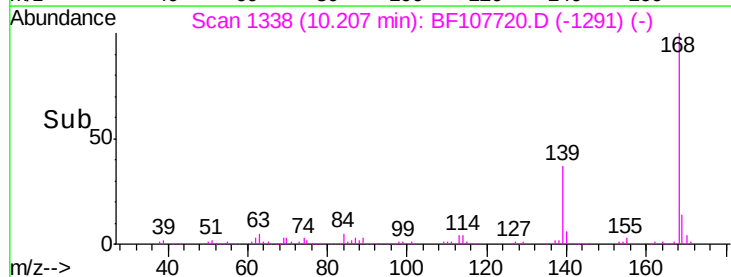
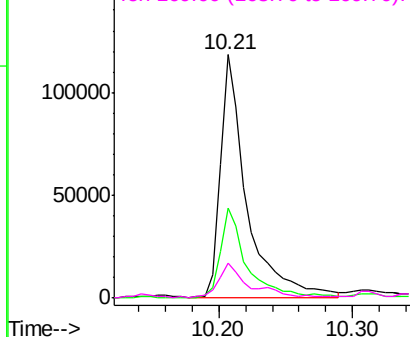
Lab File: BF107720.D

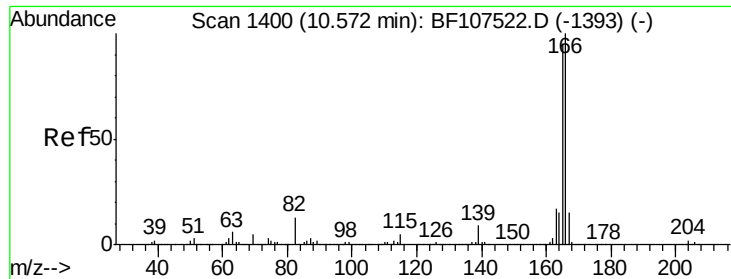
Acq: 27 Jul 2018 00:31

Tgt Ion:	168	Resp:	161993
Ion Ratio	Lower	Upper	
168	100		
139	37.0	30.1	45.1
169	14.4	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





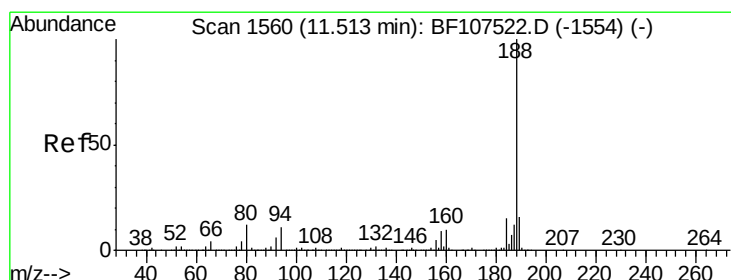
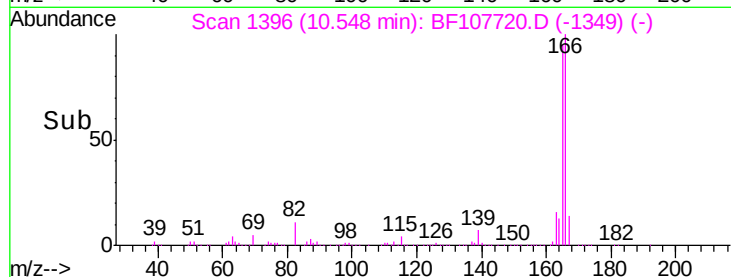
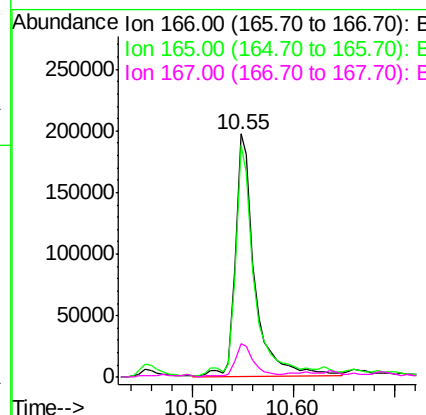
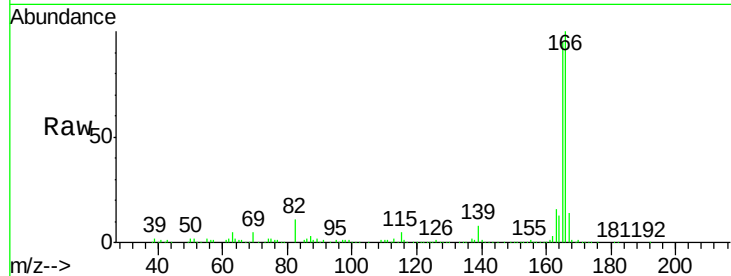
#57
 Fluorene
 Concen: 11.039 ng
 RT: 10.55 min Scan# 1396
 Delta R.T. -0.02 min
 Lab File: BF107720.D
 Acq: 27 Jul 2018 00:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	262650		
165	95.3	79.8	119.8	
167	14.1	10.6	16.0	

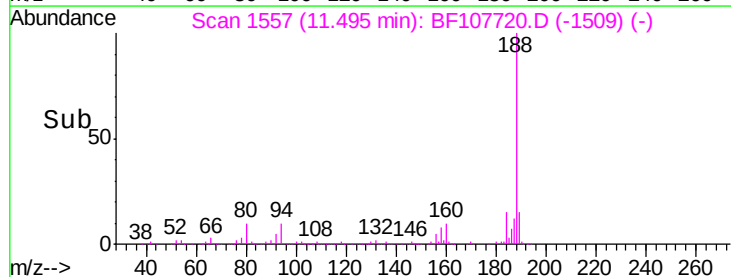
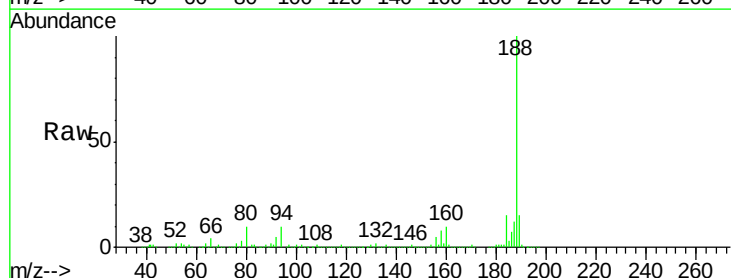
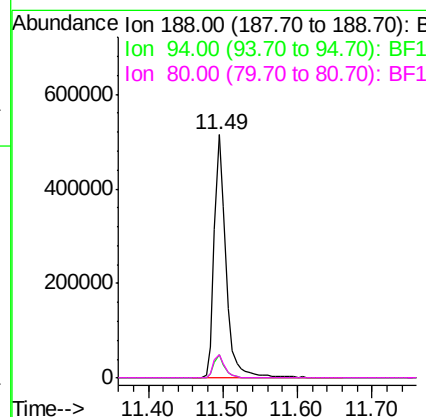
Manual Integrations
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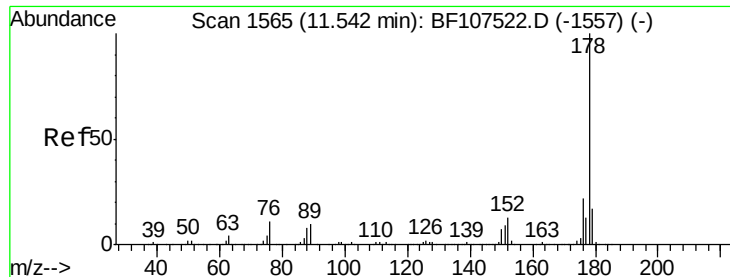
Sohil
 7/27/2018 2:54:17 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF107720.D
 Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	567395		
94	9.5	8.5	12.7	
80	9.6	9.2	13.8	





#70

Phenanthrene

Concen: 36.792 ng

RT: 11.52 min Scan# 1561

Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

ClientSampleId :

SB-9(3-5)

Tgt Ion:178 Resp: 1017277

Ion Ratio Lower Upper

178 100

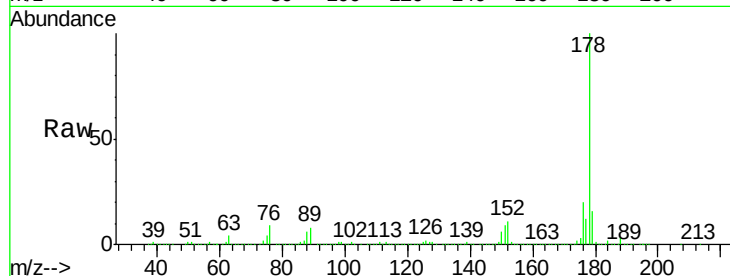
176 19.9 15.8 23.8

179 15.8 13.0 19.6

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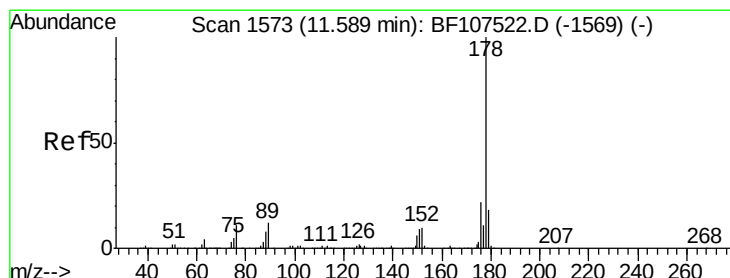
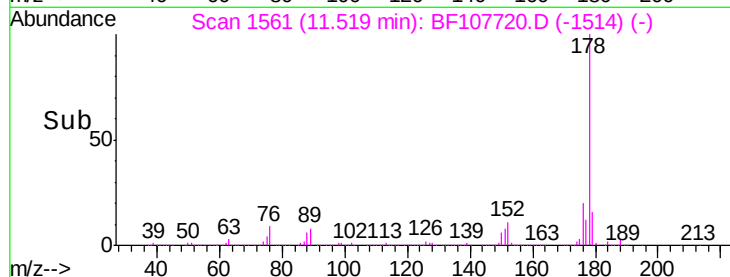
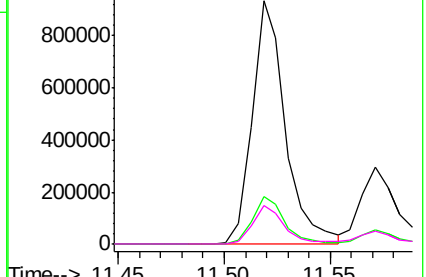
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 14.283 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

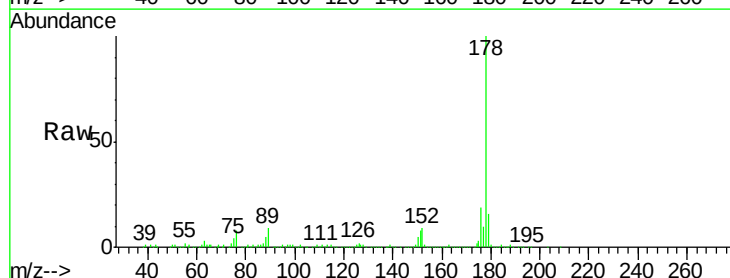
Tgt Ion:178 Resp: 397633

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

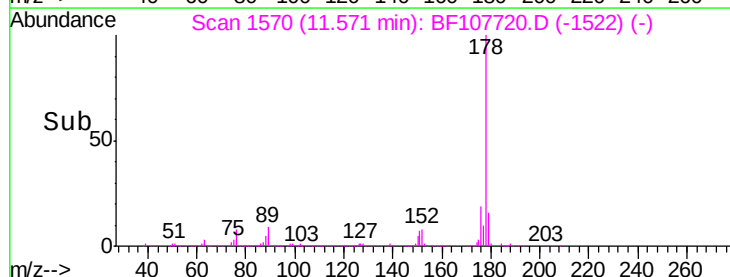
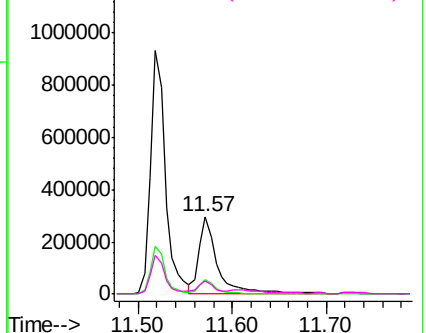
179 16.4 12.6 19.0

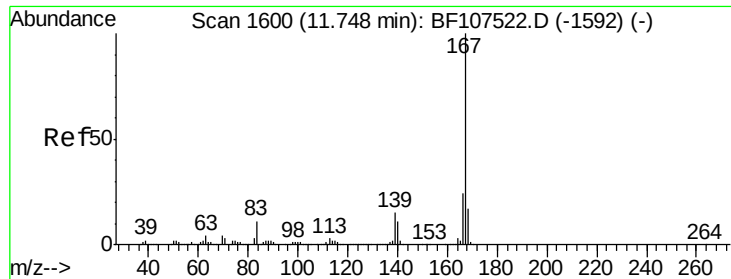


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.025 ng

RT: 11.74 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF107720.D

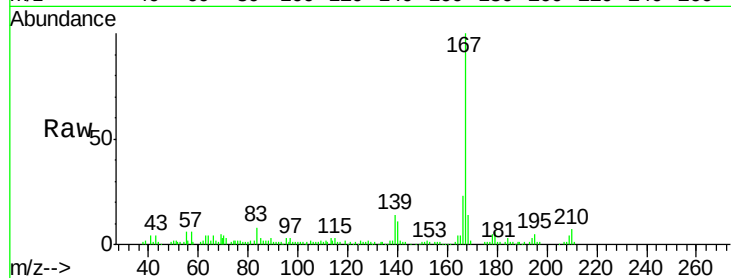
Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

ClientSampleId :

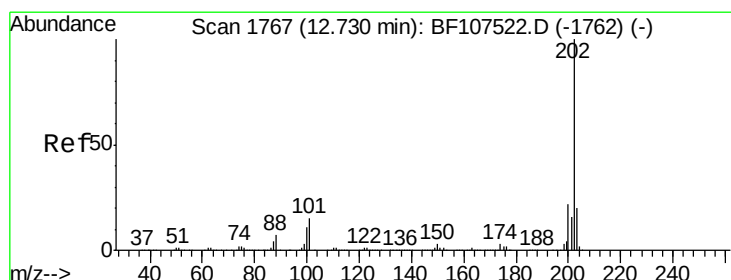
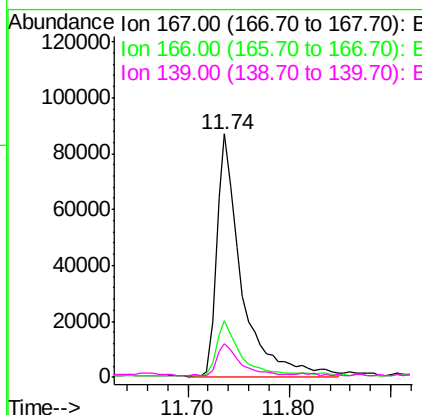
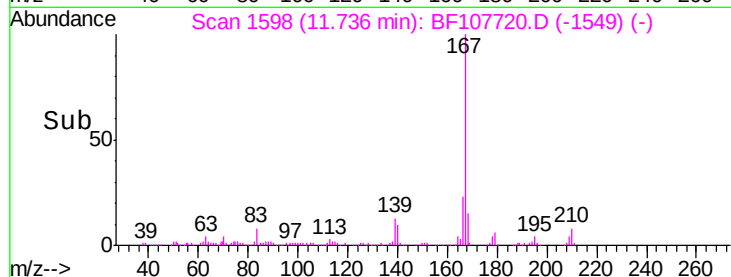
SB-9(3-5)



Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.1	17.6	26.4
139	13.9	10.9	16.3

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#74

Fluoranthene

Concen: 36.594 ng

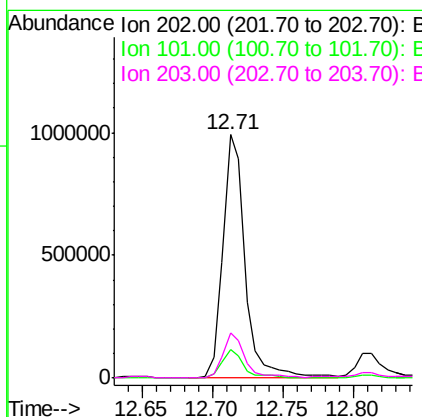
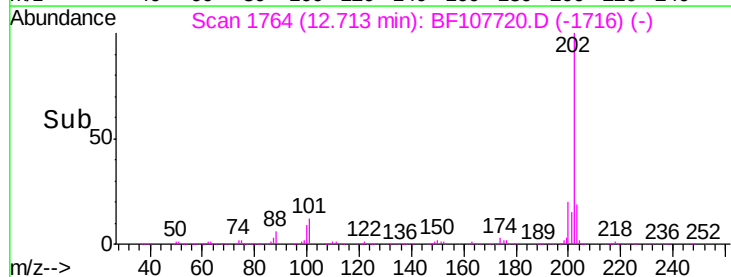
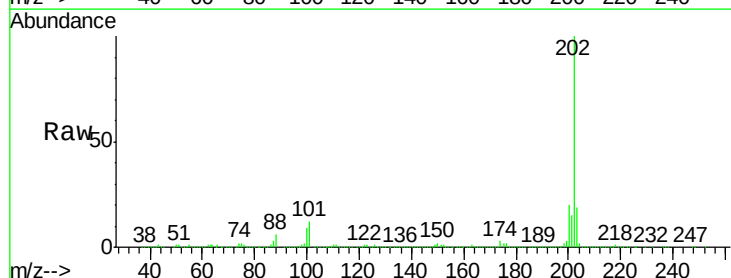
RT: 12.71 min Scan# 1764

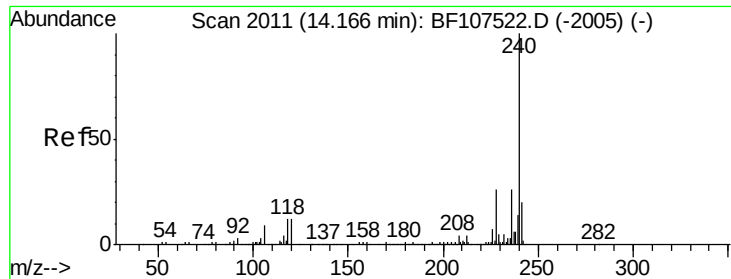
Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	34.1
203	18.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2008

Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

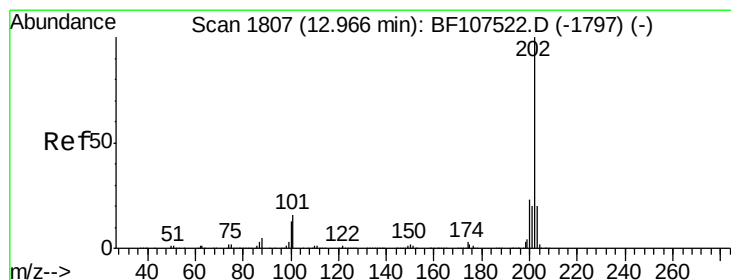
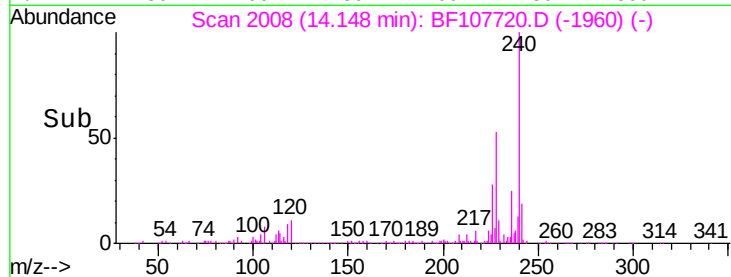
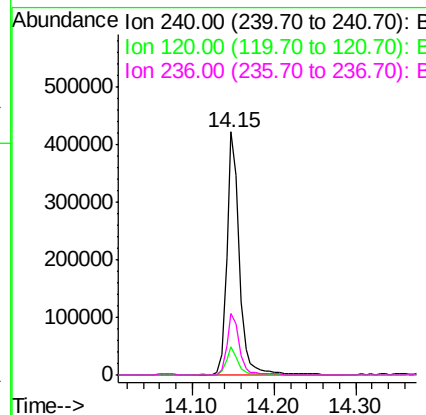
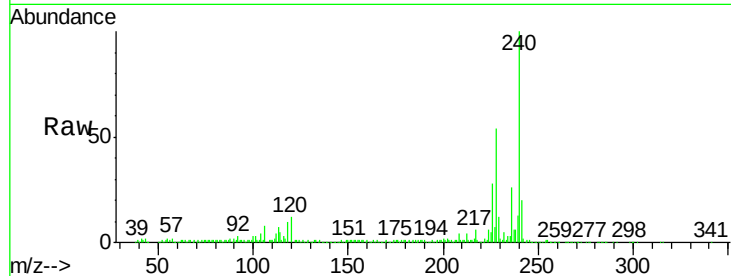
ClientSampled :

SB-9(3-5)

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.5	14.3
236	25.5	20.7	31.1

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#77

Pyrene

Concen: 31.587 ng

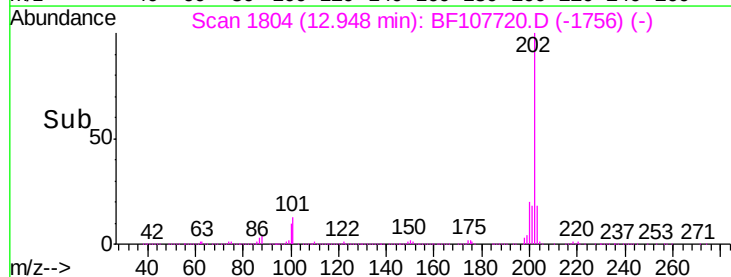
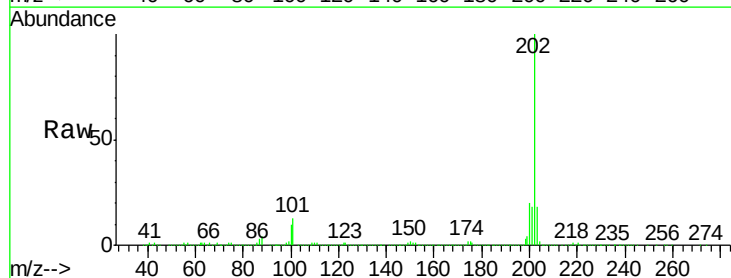
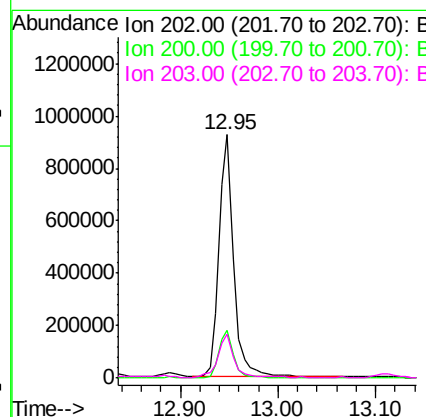
RT: 12.95 min Scan# 1804

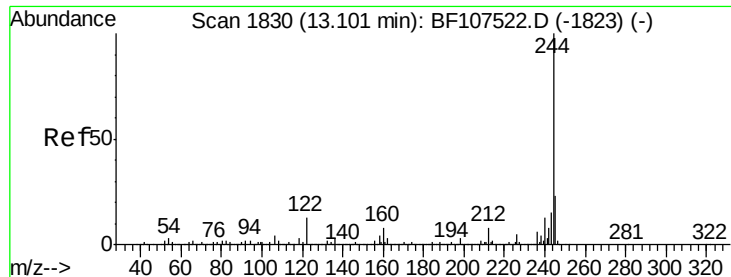
Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.7	17.4	26.2
203	18.2	14.3	21.5





#78

Terphenyl-d14

Concen: 52.358 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Instrument :

BNA_F

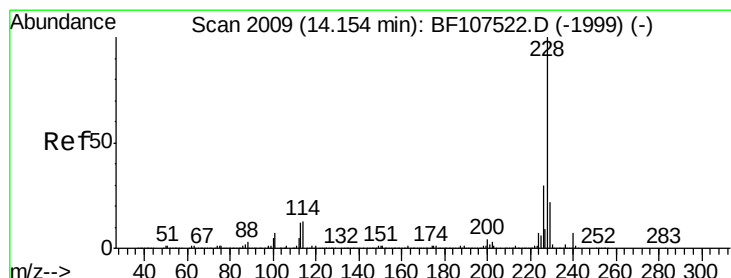
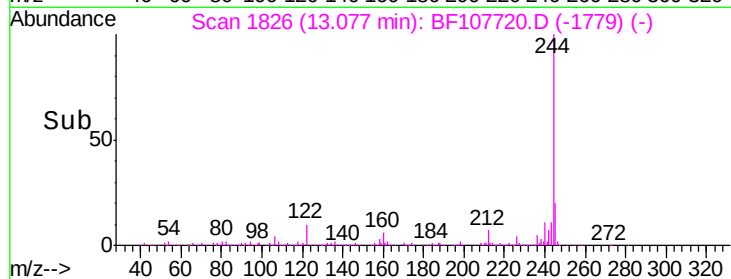
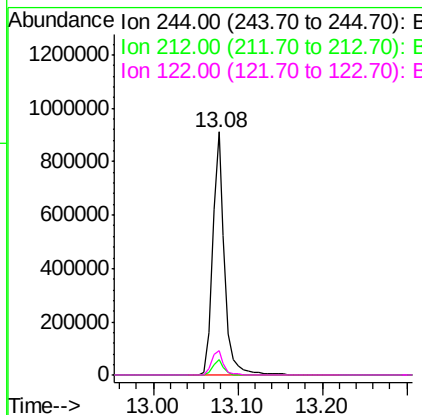
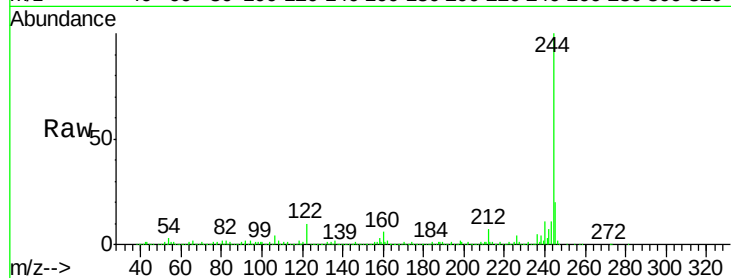
ClientSampleId :

SB-9(3-5)

Tgt Ion:	244	Resp:	914219
Ion Ratio		Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.2	11.0	16.4#

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#80

Benzo(a)anthracene

Concen: 22.838 ng

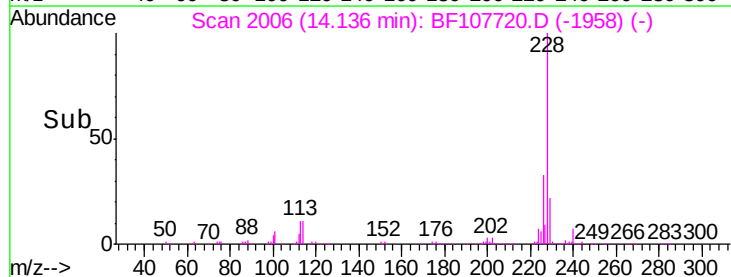
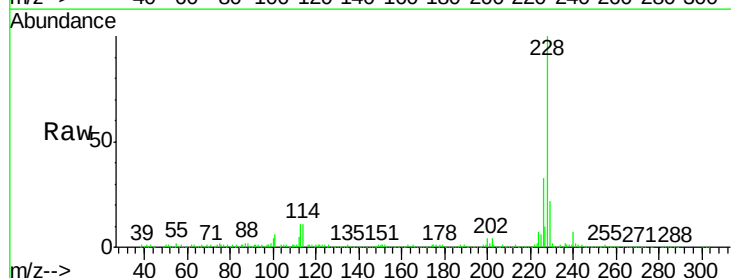
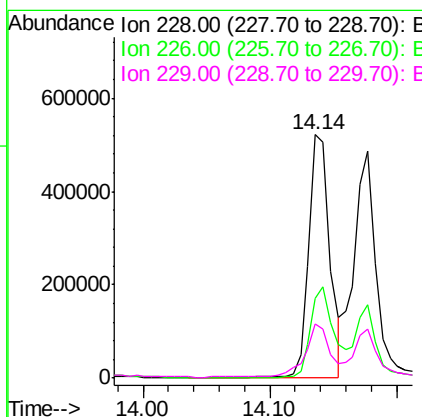
RT: 14.14 min Scan# 2006

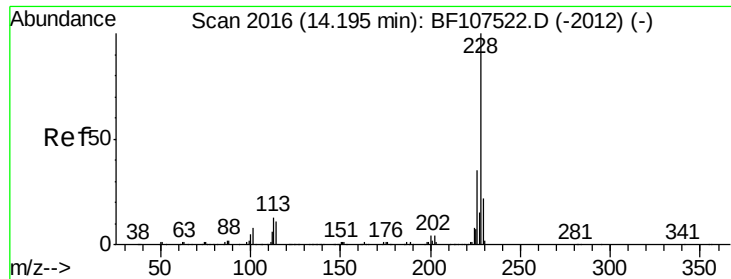
Delta R.T. -0.02 min

Lab File: BF107720.D

Acq: 27 Jul 2018 00:31

Tgt Ion:	228	Resp:	598267
Ion Ratio		Lower	Upper
228	100		
226	32.7	22.6	33.8
229	22.0	15.8	23.6





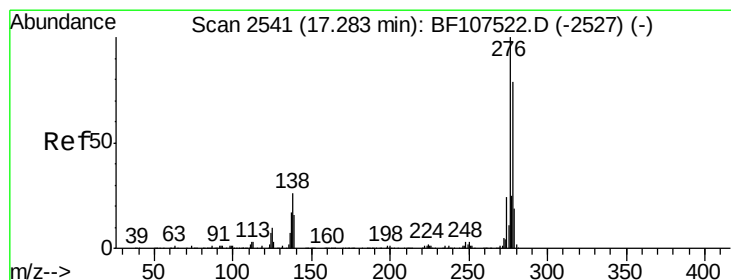
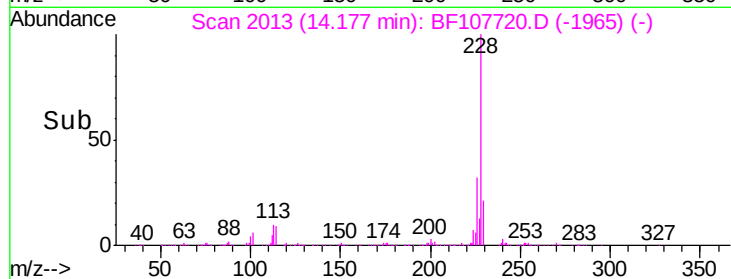
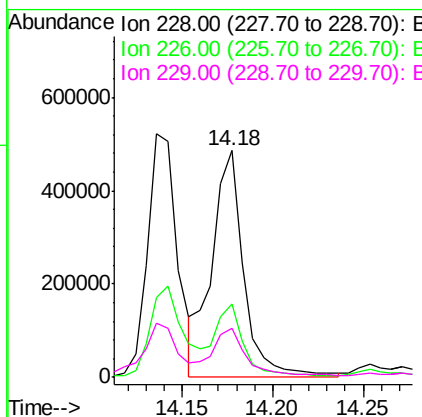
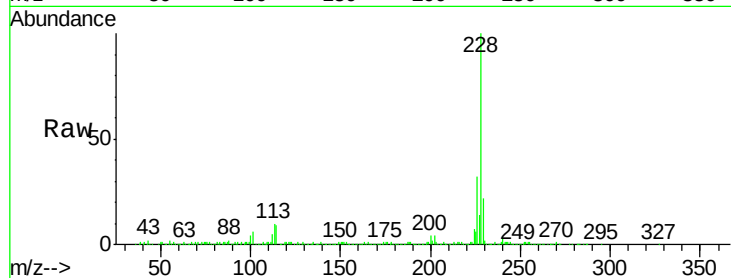
#82
Chrysene
Concen: 23.635 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Instrument :
BNA_F
ClientSampleId :
SB-9(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	594736		
226	32.2	25.0	37.6	
229	21.8	16.2	24.4	

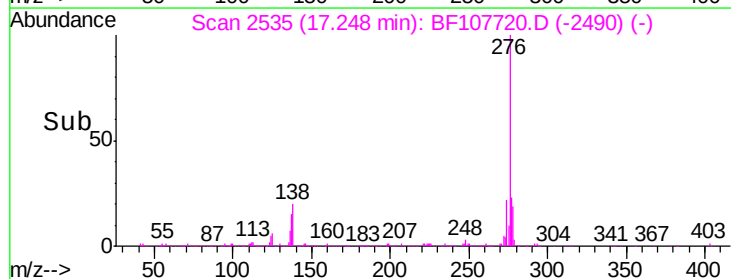
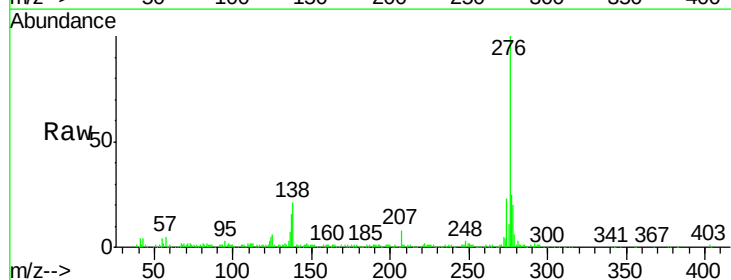
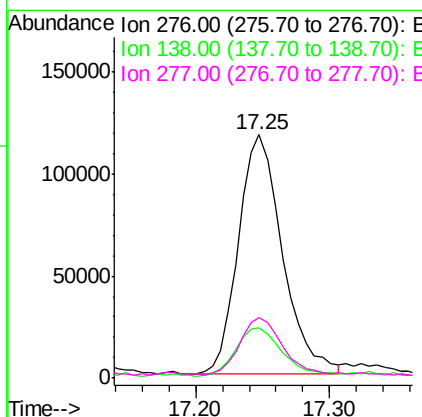
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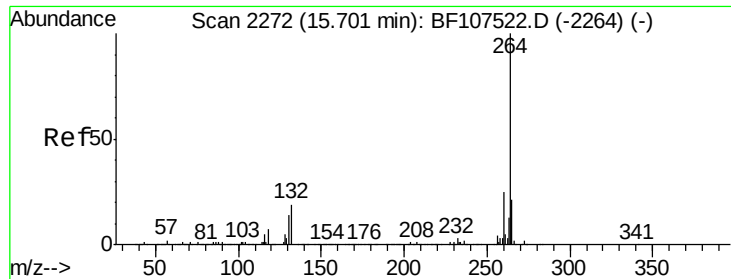
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 12.592 ng
RT: 17.25 min Scan# 2535
Delta R.T. -0.04 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	268544		
138	21.5	25.0	37.6#	
277	23.5	20.1	30.1	





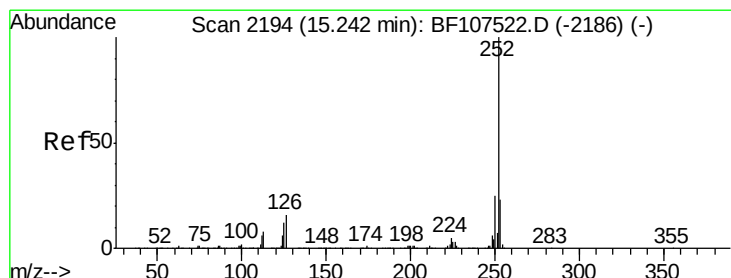
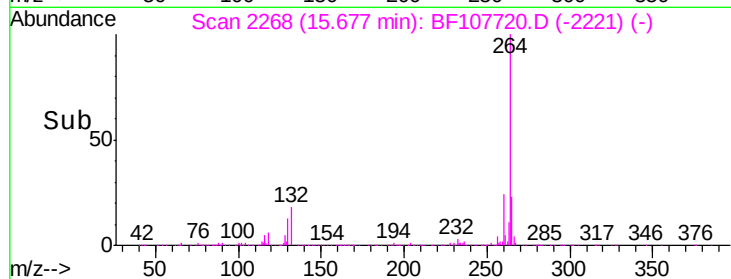
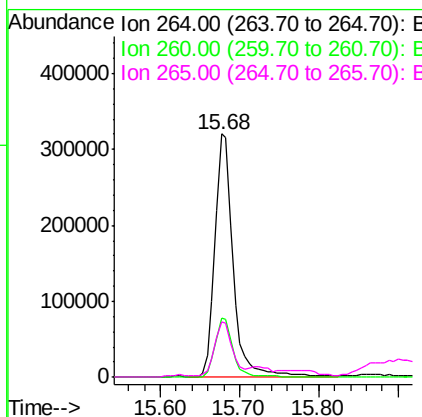
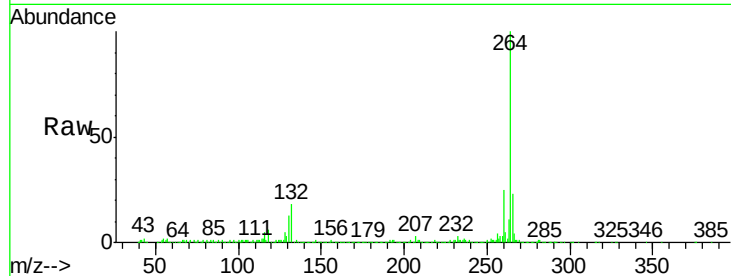
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2268
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Instrument :
BNA_F
ClientSampleId :
SB-9(3-5)

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	23.0	17.5	26.3

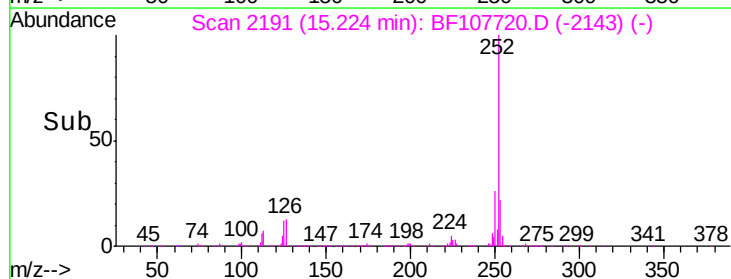
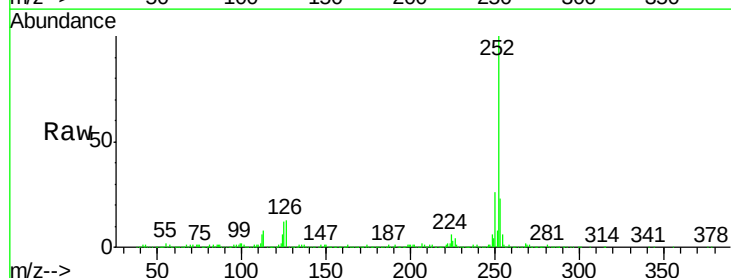
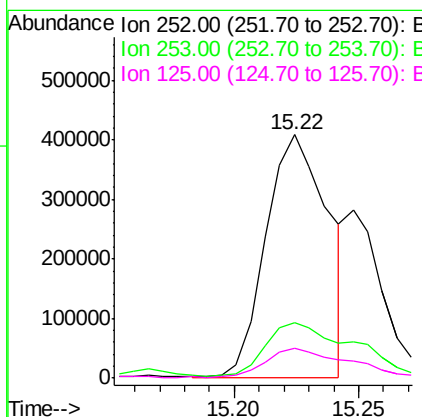
Manual Integrations
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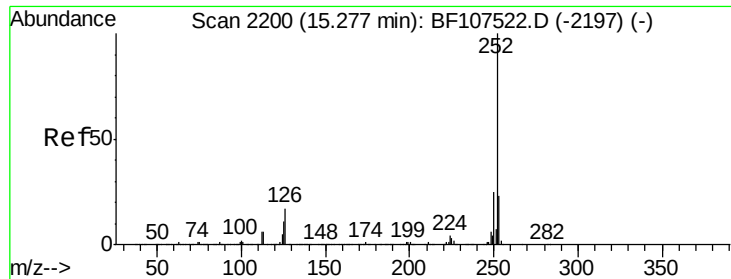
Sohil
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#87
Benzo(b)fluoranthene
Concen: 25.763 ng m
RT: 15.22 min Scan# 2191
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	12.1	9.0	13.6





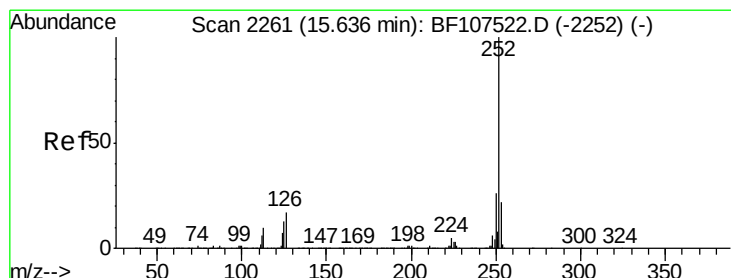
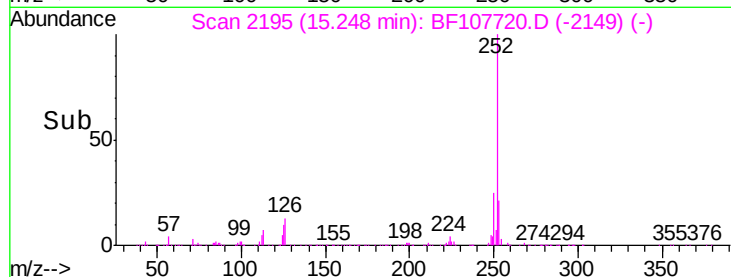
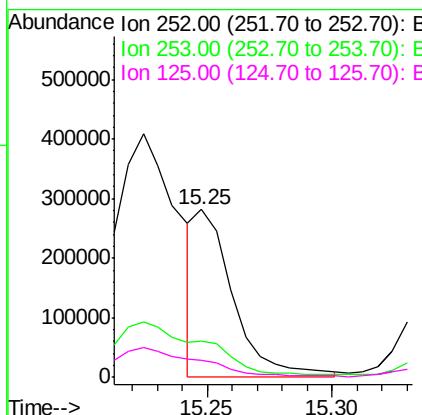
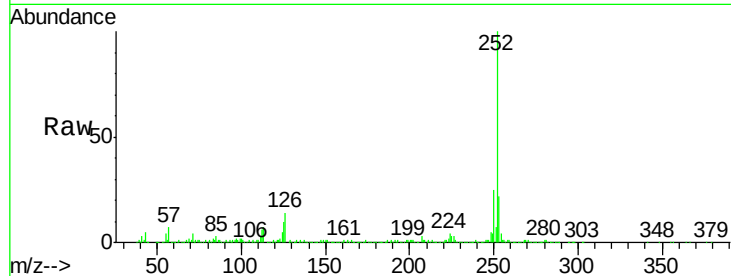
#88
Benzo(k)fluoranthene
Concen: 10.978 ng m
RT: 15.25 min Scan# 2195
Delta R.T. -0.03 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Instrument :
BNA_F
ClientSampled :
SB-9(3-5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	10.4	10.2	15.2

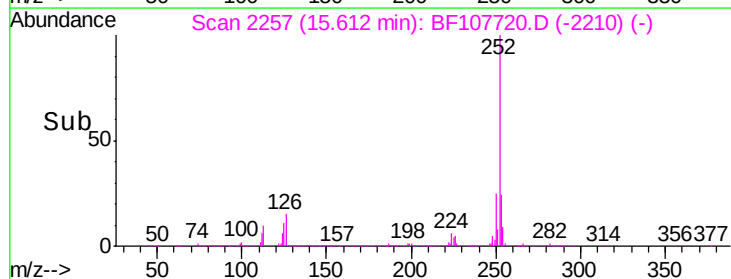
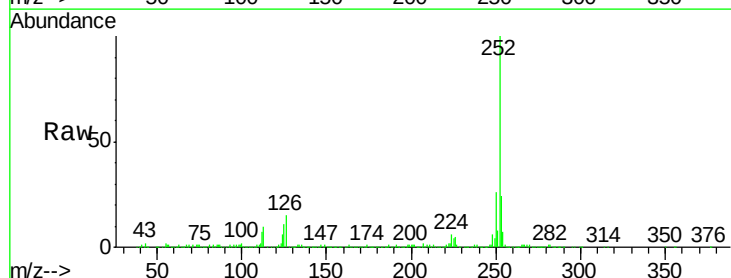
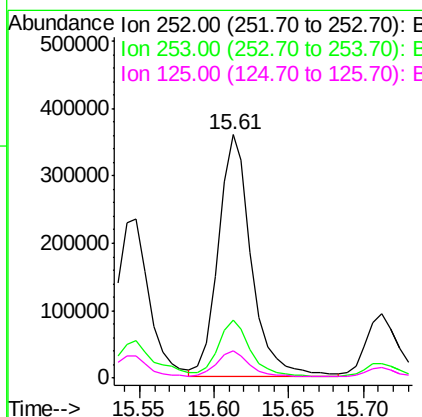
Manual Integrations
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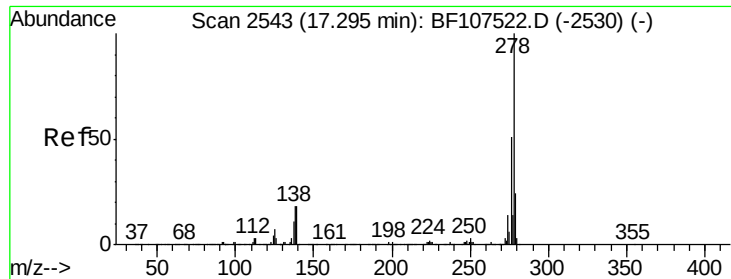
Sohil
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#89
Benzo(a)pyrene
Concen: 21.823 ng
RT: 15.61 min Scan# 2257
Delta R.T. -0.02 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	11.5	9.8	14.6





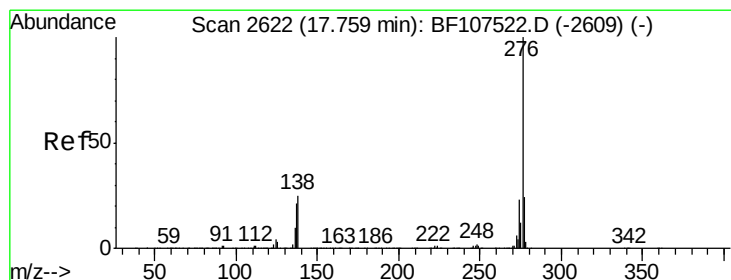
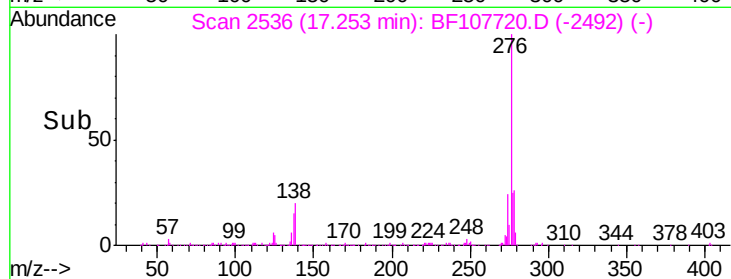
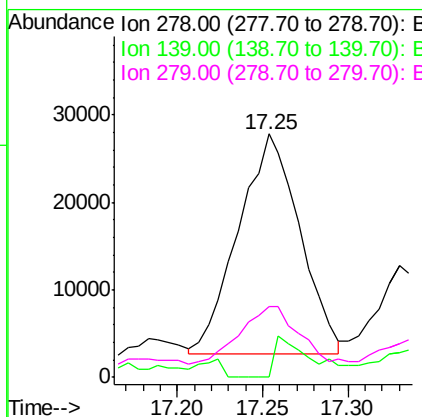
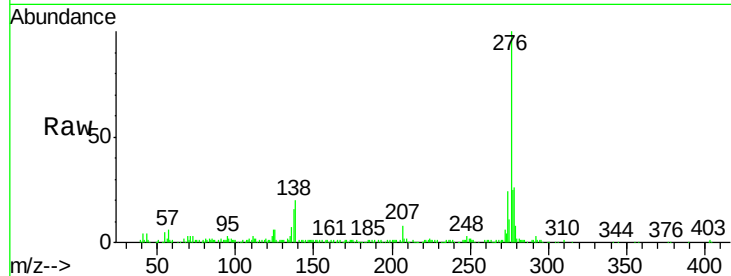
#90
Dibenzo(a,h)anthracene
Concen: 2.854 ng m
RT: 17.25 min Scan# 2536
Delta R.T. -0.04 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Instrument :
BNA_F
ClientSampleId :
SB-9(3-5)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.0	19.0	28.4#

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:17 PM



#91
Benzo(g,h,i)perylene
Concen: 11.656 ng m
RT: 17.72 min Scan# 2616
Delta R.T. -0.04 min
Lab File: BF107720.D
Acq: 27 Jul 2018 00:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	17.9	26.9
138	20.5	21.8	32.8#

