

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104827.D
 Acq On : 26 Apr 2018 9:40
 Operator : JU/SJ
 Sample : J2497-07DL 20X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5DL

Manual Integrations
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Quant Time: Apr 26 14:33:28 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	112002	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	452400	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	199271	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	295448	20.00	ng	0.00
75) Chrysene-d12	13.98	240	226238	20.00	ng	0.00
86) Perylene-d12	15.44	264	181530	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	36275	4.95	ng	0.00
7) Phenol-d6	6.43	99	47088	5.23	ng	-0.01
23) Nitrobenzene-d5	7.36	82	26993	3.90	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	7940	3.84	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	42207	3.35	ng	0.00
78) Terphenyl-d14	12.91	244	26491	2.67	ng	-0.01
Target Compounds						
31) Naphthalene	8.10	128	556606	24.708	ng	99
37) 2-Methylnaphthalene	8.79	142	101490	6.965	ng	99
48) Acenaphthylene	9.70	152	125173	6.034	ng	98
51) Acenaphthene	9.87	154	100589	7.947	ng	99
54) Dibenzofuran	10.05	168	123820	7.019	ng	99
57) Fluorene	10.39	166	194241	15.128	ng	99
70) Phenanthrene	11.36	178	679583	41.304	ng	99
71) Anthracene	11.40	178	207600	12.413	ng	99
72) Carbazole	11.56	167	54410	3.329	ng	98
74) Fluoranthene	12.55	202	652872	37.979	ng	97
77) Pyrene	12.78	202	558243	33.289	ng	99
80) Benzo(a)anthracene	13.97	228	312547m	23.125	ng	
82) Chrysene	14.00	228	281222m	20.257	ng	
85) Indeno(1,2,3-cd)pyrene	16.90	276	114765	9.732	ng	# 92
87) Benzo(b)fluoranthene	15.02	252	303735m	26.492	ng	
88) Benzo(k)fluoranthene	15.04	252	121634m	11.237	ng	
89) Benzo(a)pyrene	15.38	252	225310	21.963	ng	97
90) Dibenzo(a,h)anthracene	16.90	278	30308	3.597	ng	96
91) Benzo(a,h,i)perylene	17.34	276	104238	12.770	ng	93

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

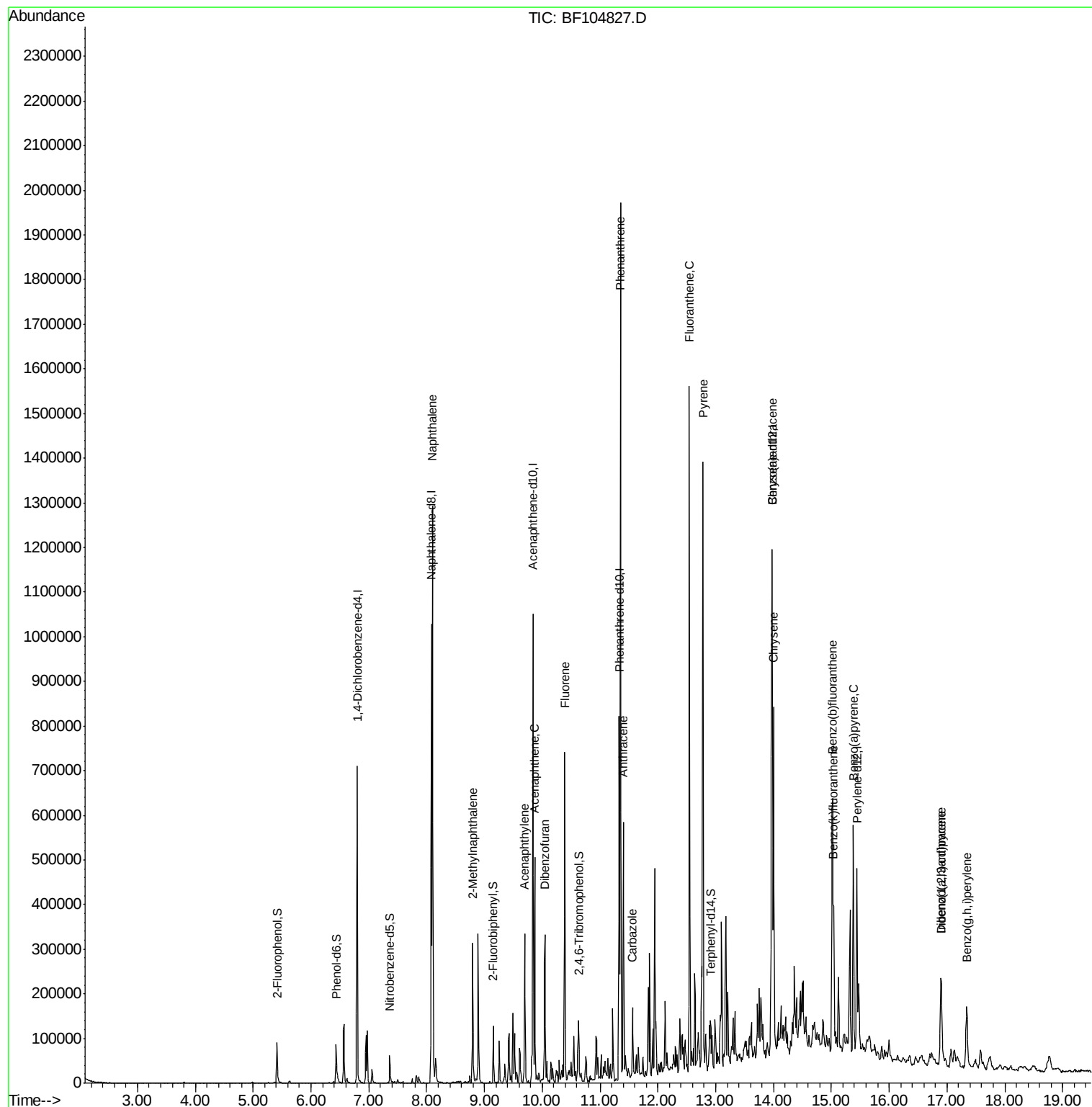
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
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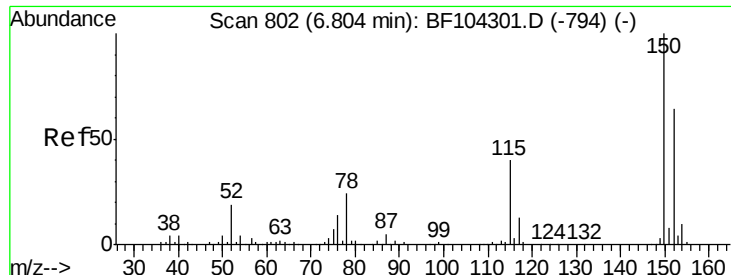
Instrument :
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ClientSampleId :
A2-SB02-BOT-W-8.5DL

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#1

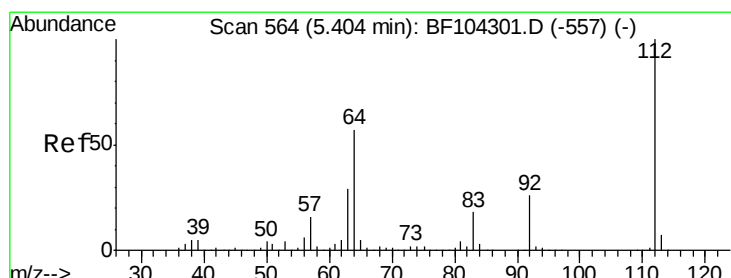
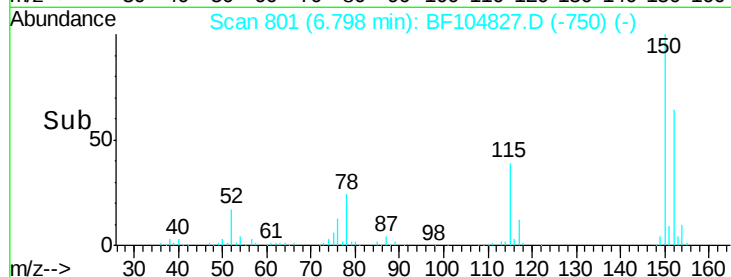
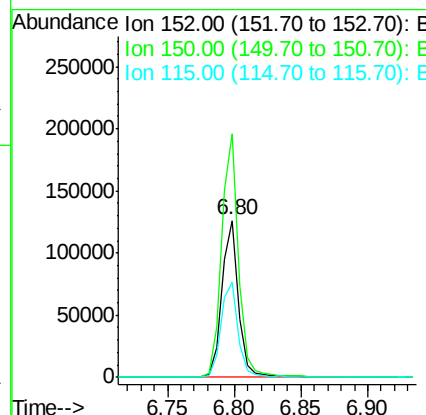
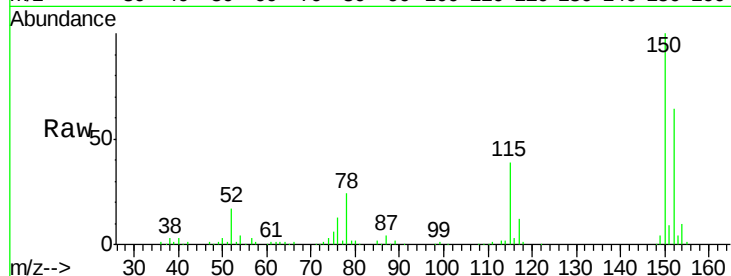
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	60.9	50.1	75.1

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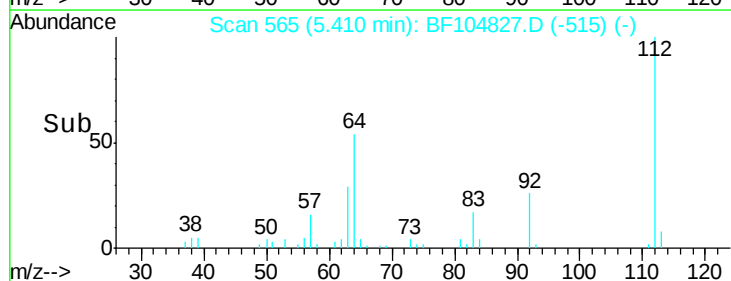
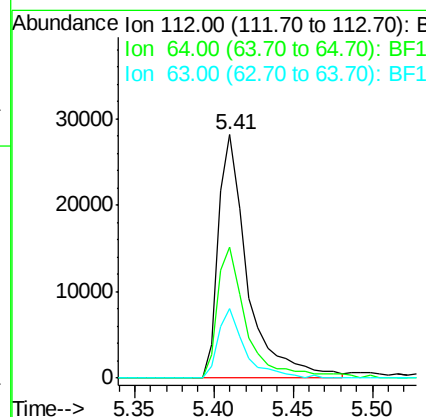
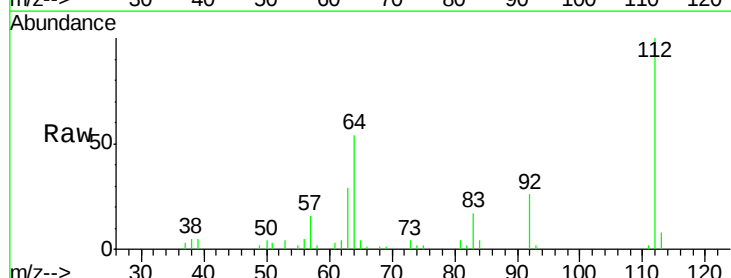
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#5

2-Fluorophenol
Concen: 4.952 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	47.9	71.9
63	28.5	23.7	35.5





#7

Phenol-d6

Concen: 5.232 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Instrument :

BNA_F

ClientSampleId :

A2-SB02-BOT-W-8.5DL

Tot Ion: 99 Resp: 47088

Ion Ratio Lower Upper

99 100

42 15.3 14.5 21.7

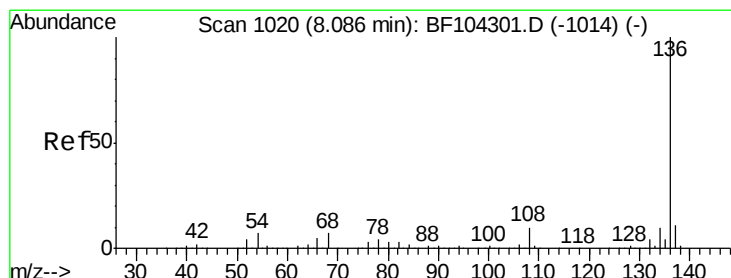
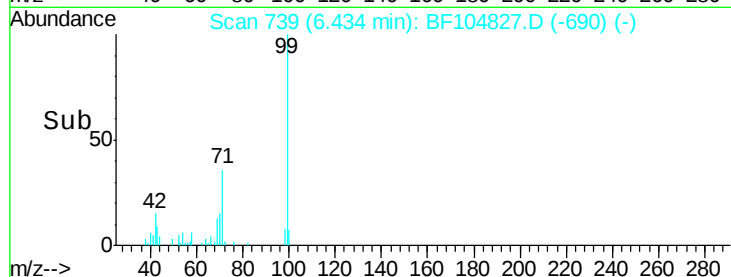
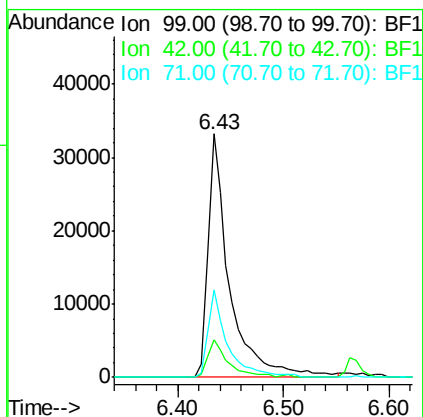
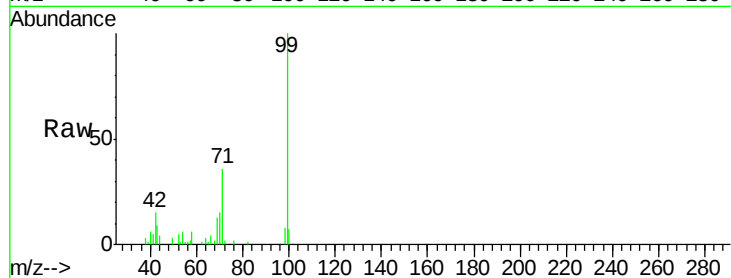
71 36.1 25.4 38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Tgt Ion: 136 Resp: 452400

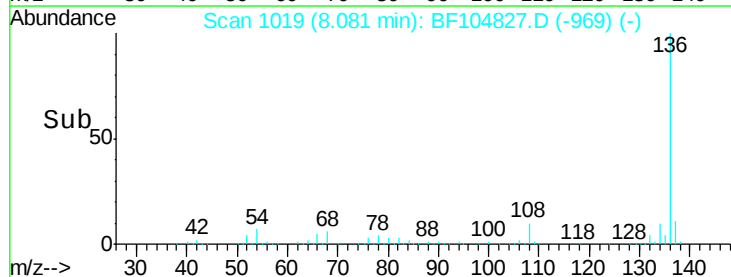
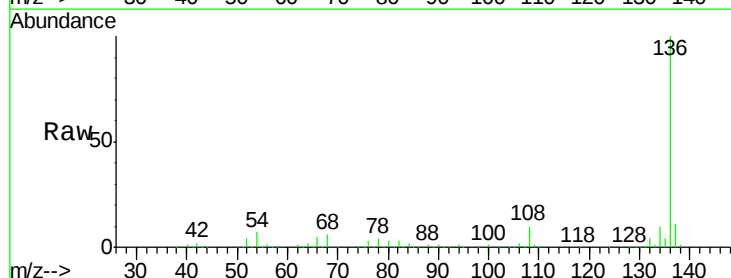
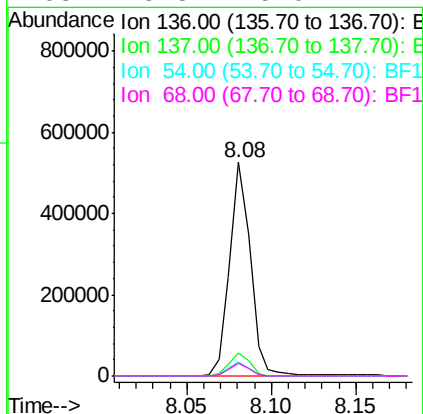
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 6.6 6.6 9.8

68 5.8 5.0 7.4





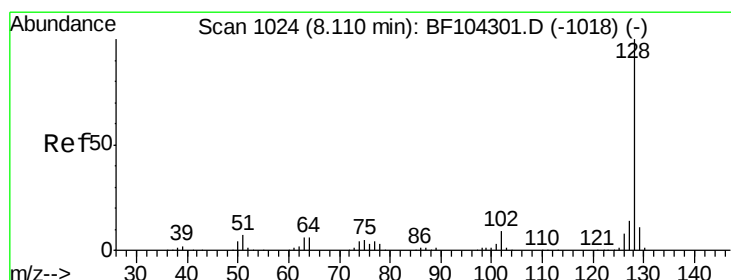
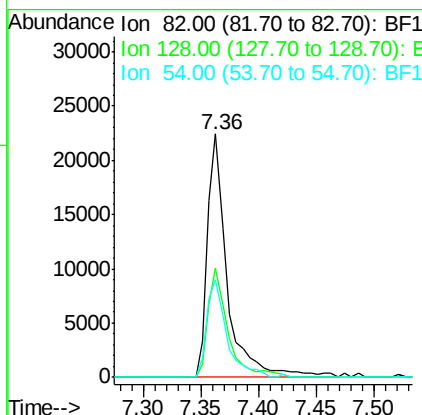
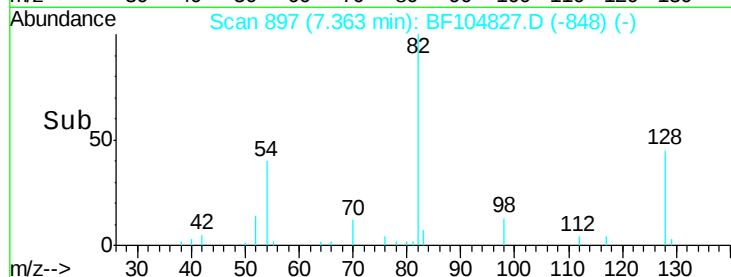
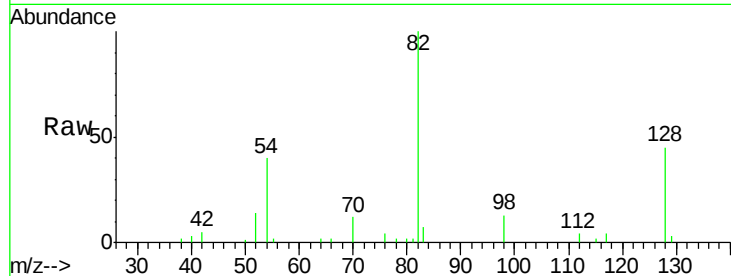
#23
 Nitrobenzene-d5
 Concen: 3.896 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.1	54.1
54	39.9	41.4	62.2

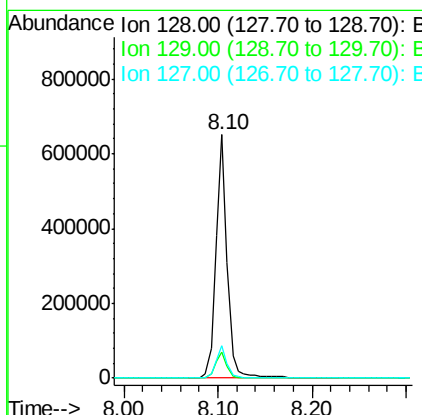
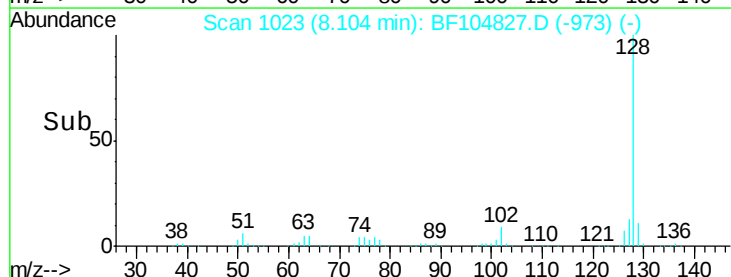
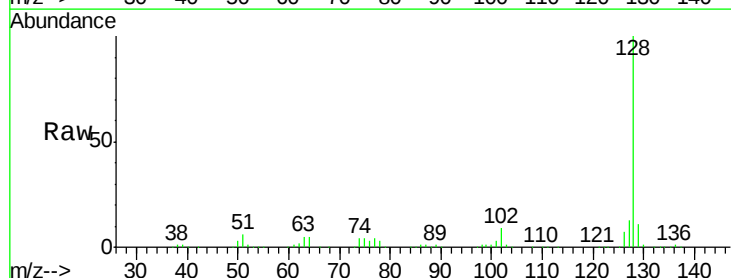
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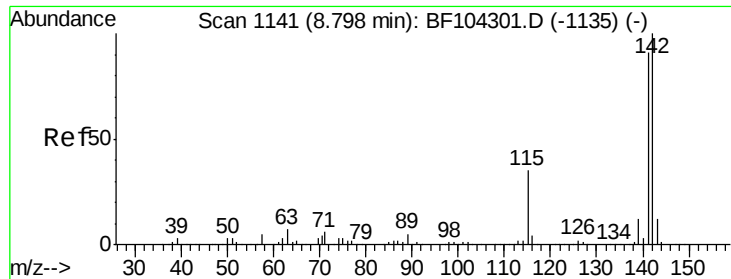
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#31
 Naphthalene
 Concen: 24.708 ng
 RT: 8.10 min Scan# 1023
 Delta R.T. -0.01 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

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





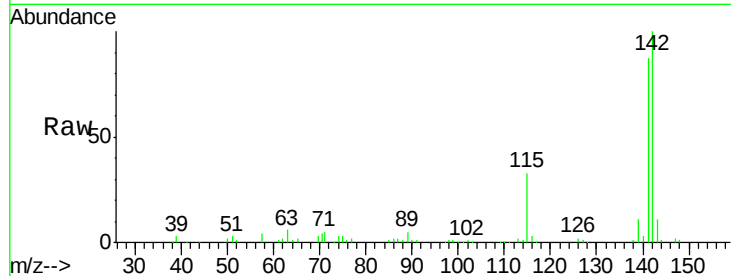
#37
2-Methylnaphthalene
Concen: 6.965 ng
RT: 8.79 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

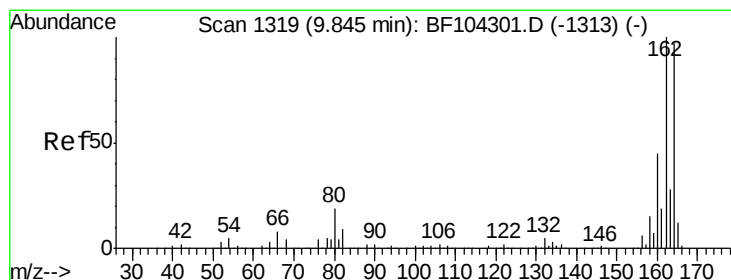
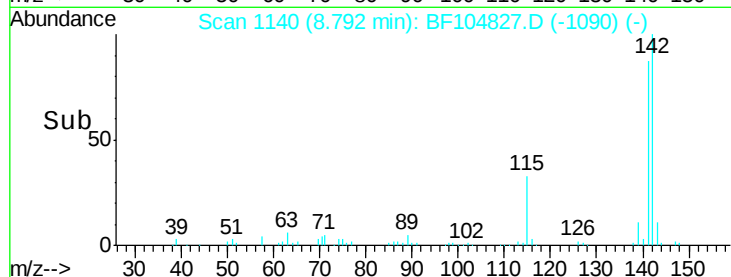
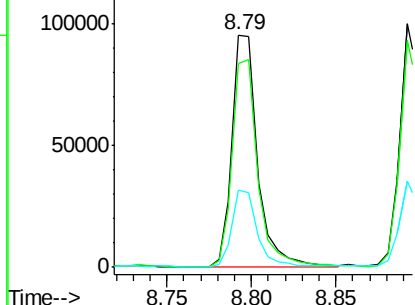
Tot Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2
115	33.3	26.1	39.1

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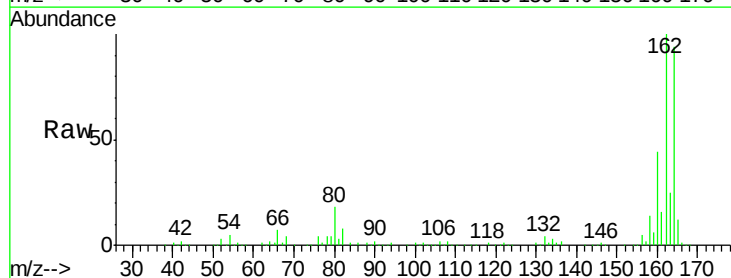


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

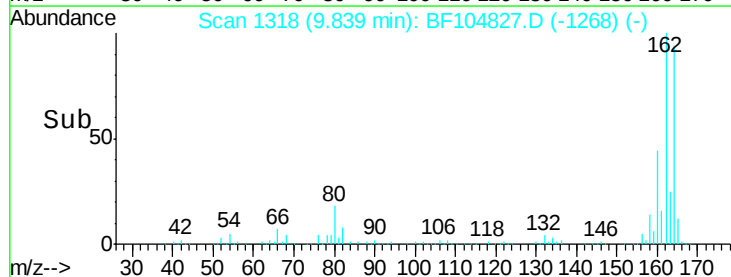
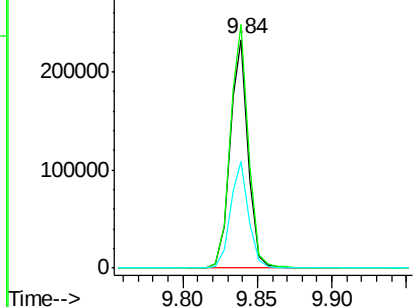


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.6	86.1	129.1
160	47.0	38.3	57.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





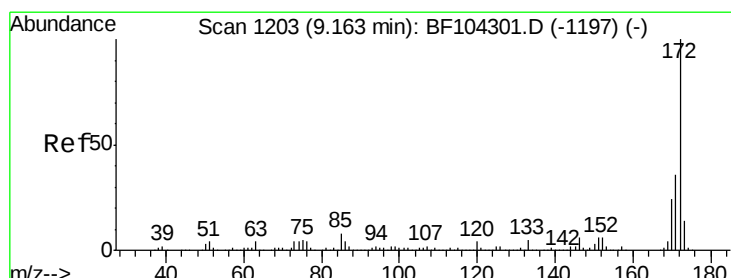
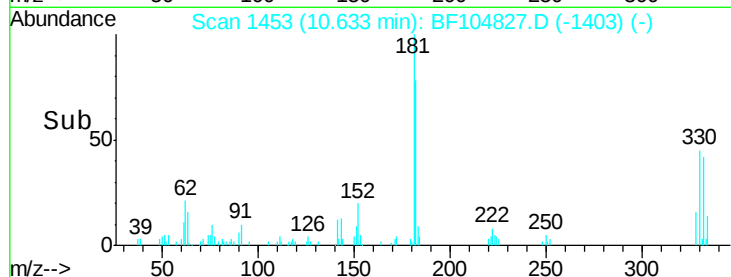
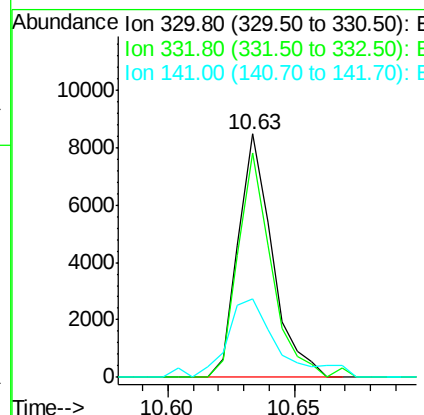
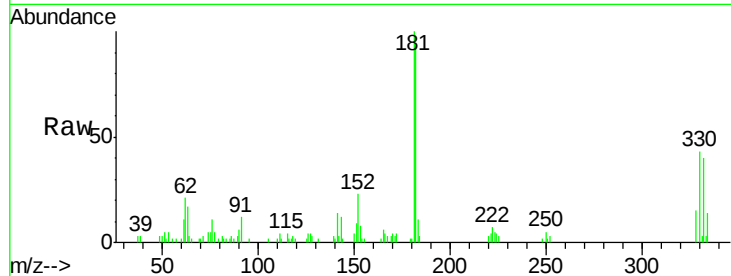
#41
 2,4,6-Tribromophenol
 Concen: 3.841 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	7940		
332	90.7		77.0	115.6
141	48.6		29.9	44.9#

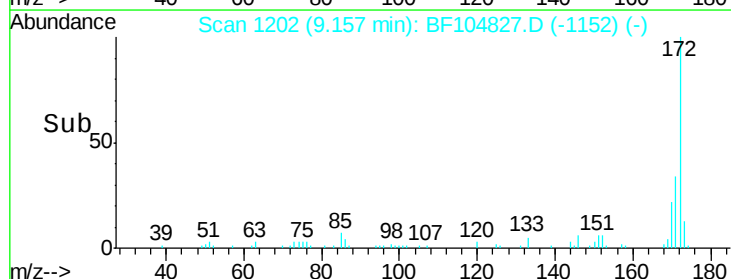
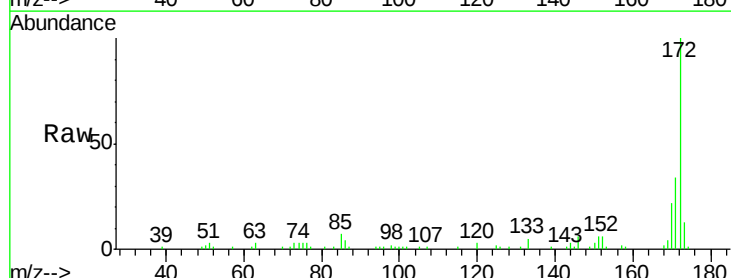
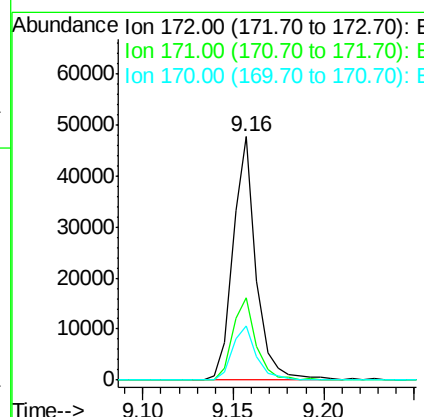
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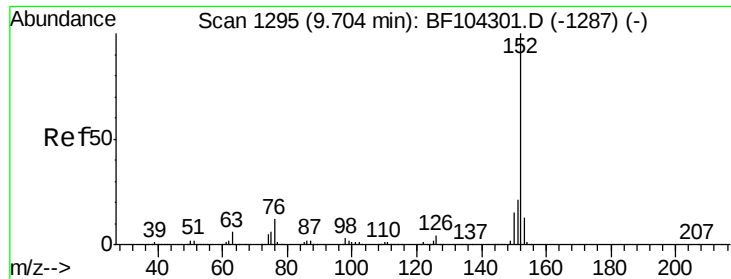
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#44
 2-Fluorobiphenyl
 Concen: 3.346 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	42207		
171	34.1		29.7	44.5
170	22.1		19.6	29.4





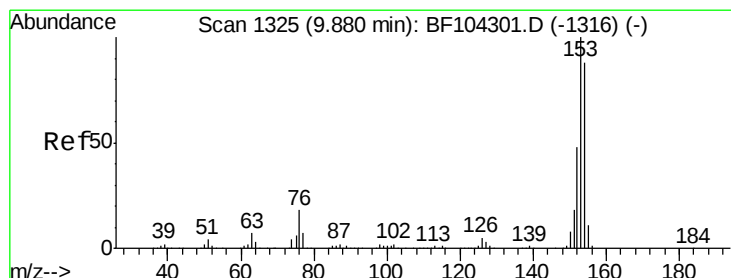
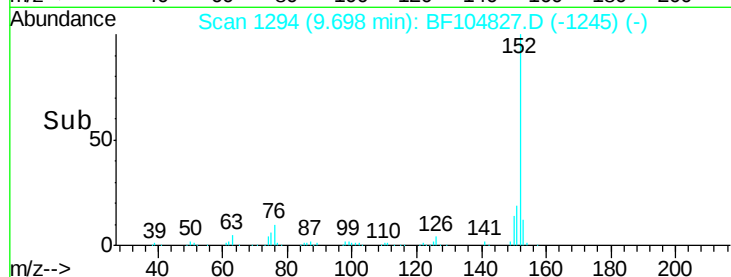
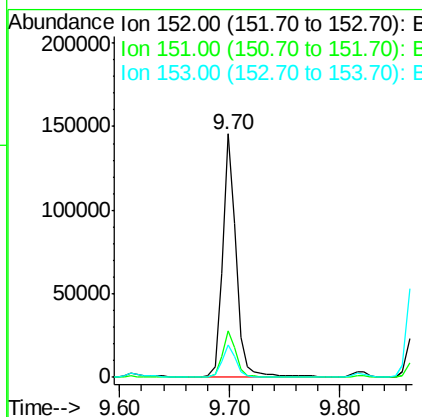
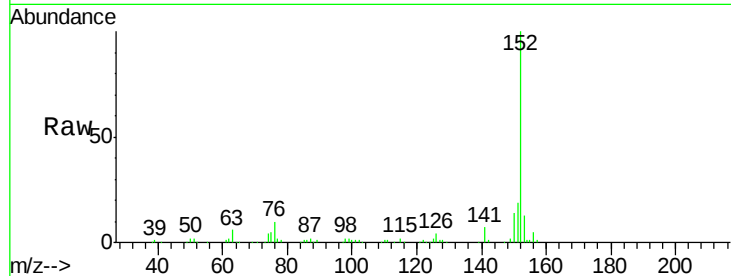
#48
Acenaphthylene
Concen: 6.034 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.3	24.5
153	13.3	10.7	16.1

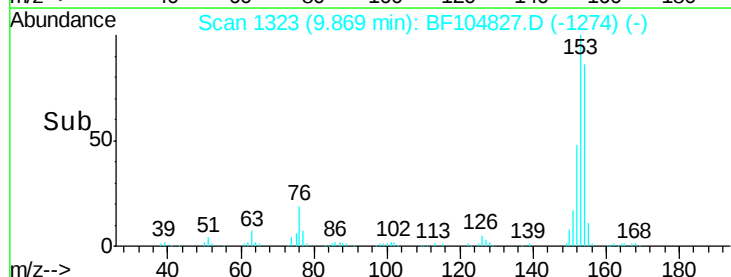
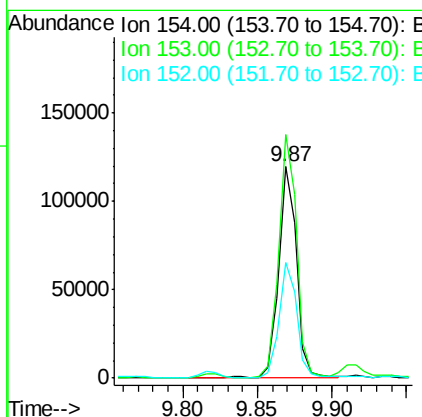
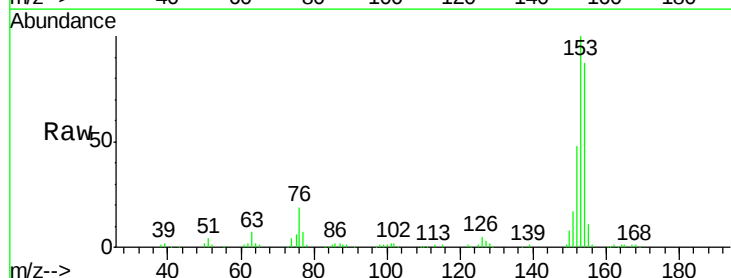
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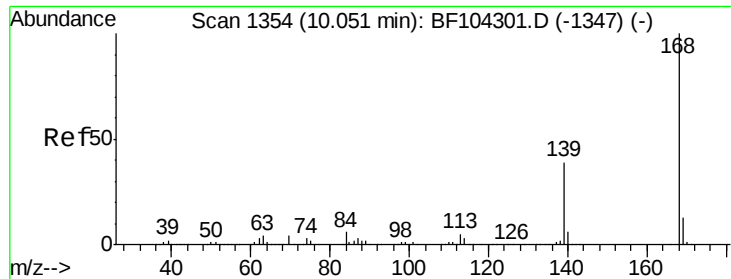
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#51
Acenaphthene
Concen: 7.947 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.4	91.2	136.8
152	55.0	43.8	65.8





#54

Dibenzenofuran

Concen: 7.019 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Instrument :

BNA_F

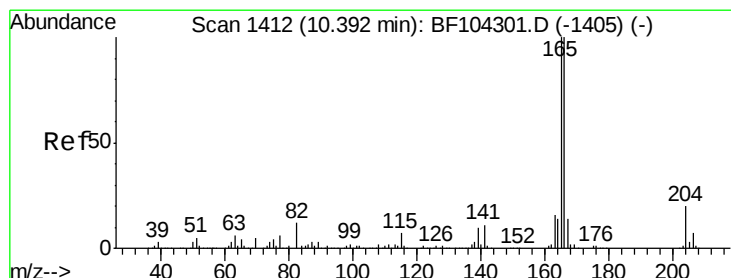
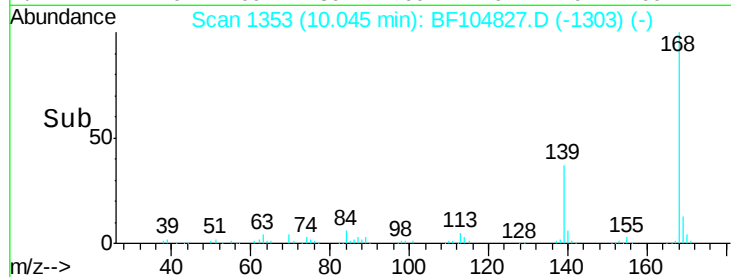
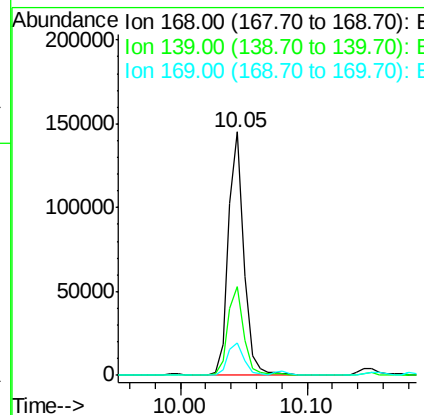
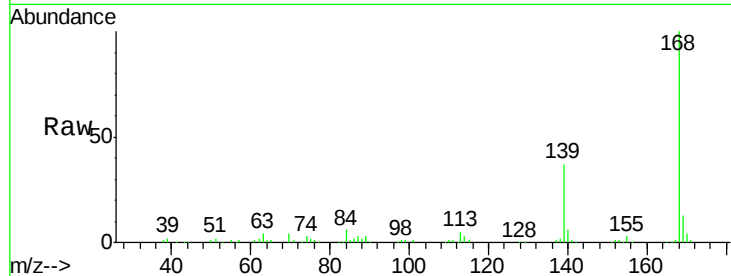
ClientSampleId :

A2-SB02-BOT-W-8.5DL

Tot Ion:	168	Resp:	123820
Ion Ratio	Lower	Upper	
168	100		
139	36.7	30.1	45.1
169	13.2	10.9	16.3

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#57

Fluorene

Concen: 15.128 ng

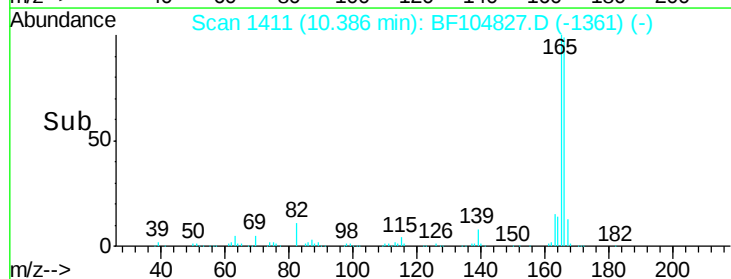
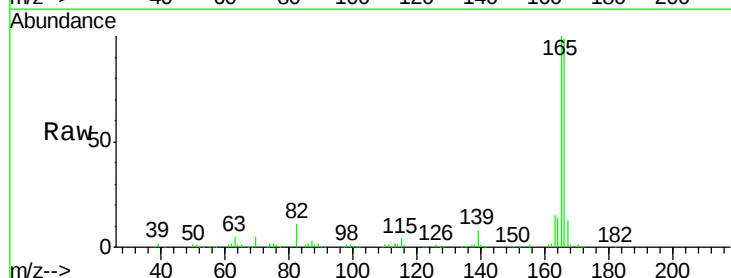
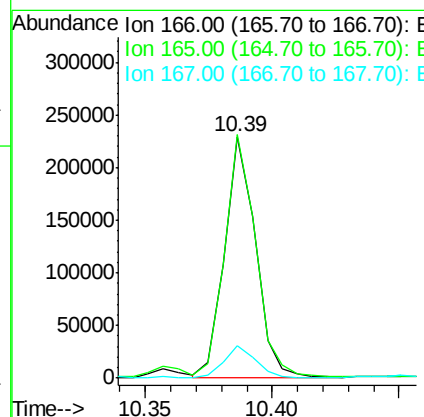
RT: 10.39 min Scan# 1411

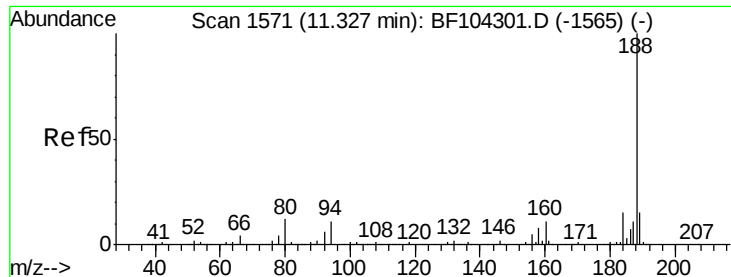
Delta R.T. -0.01 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Tgt Ion:	166	Resp:	194241
Ion Ratio	Lower	Upper	
166	100		
165	100.9	79.8	119.8
167	13.2	10.6	16.0





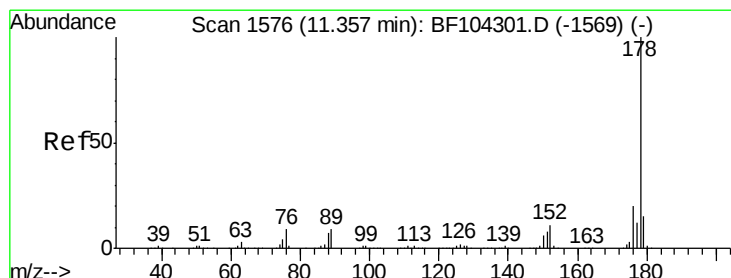
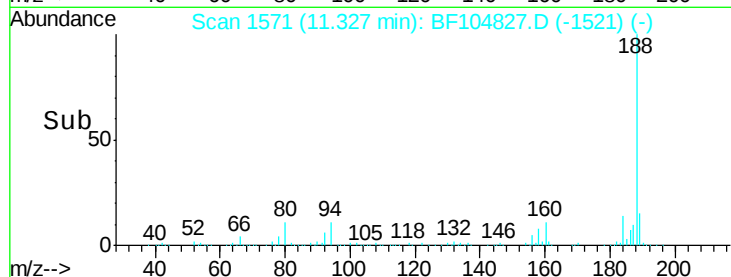
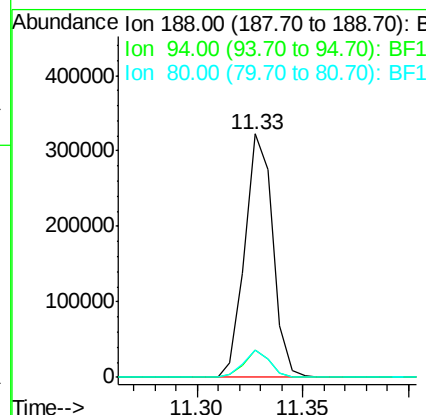
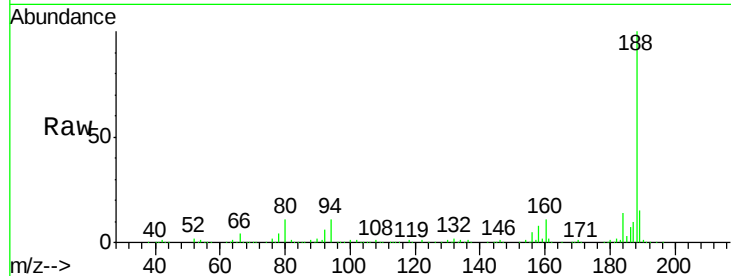
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	295448		
94	11.0		8.5	12.7
80	11.5		9.2	13.8

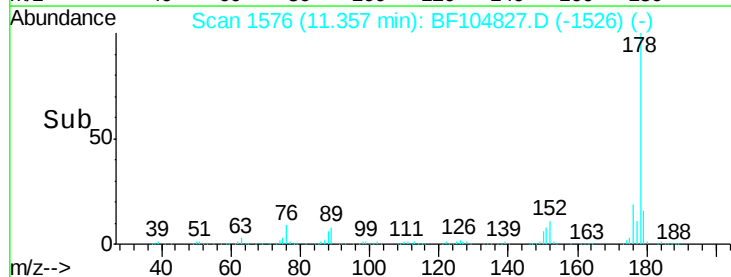
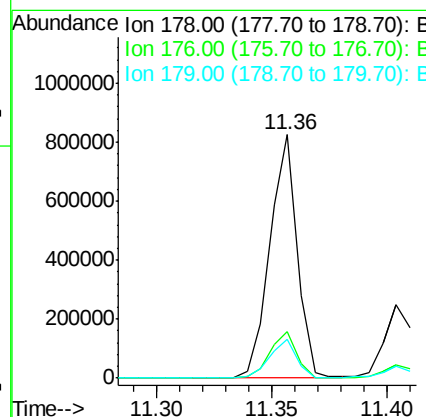
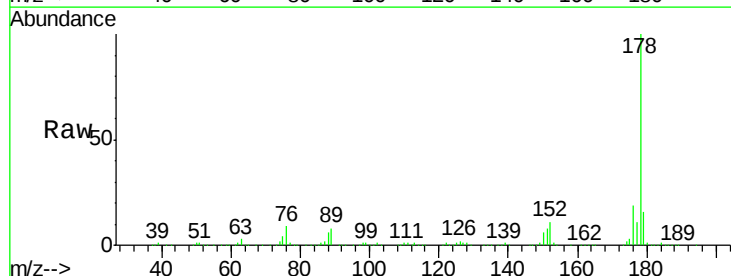
Manual Integrations
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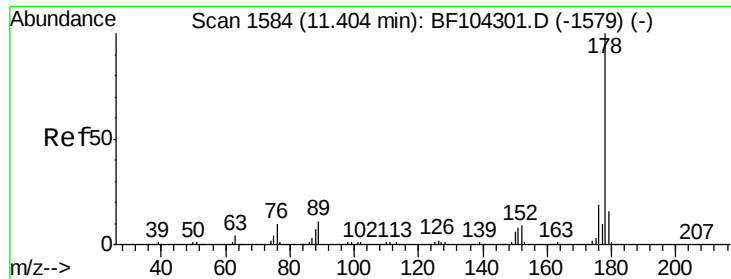
Sohil
4/26/2018 6:15:23 PM



#70
Phenanthrene
Concen: 41.304 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	679583		
176	19.2		15.8	23.8
179	15.7		13.0	19.6





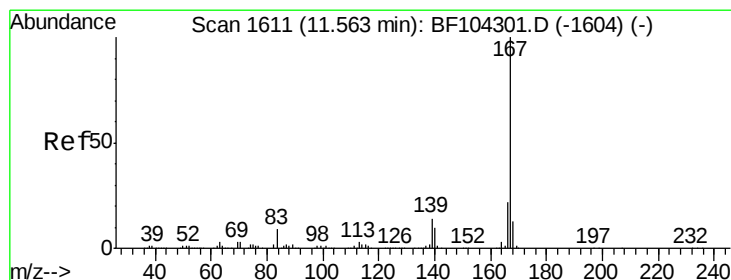
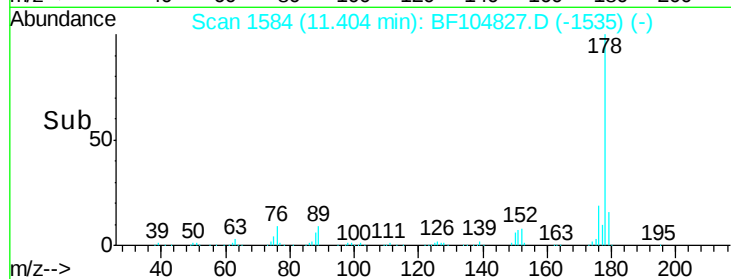
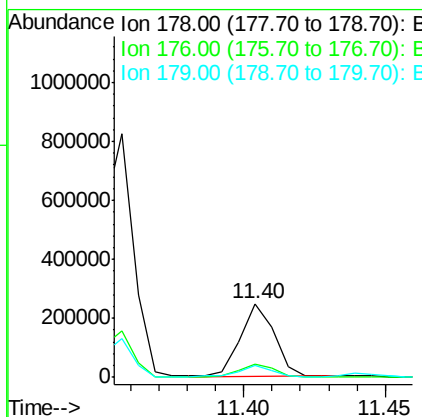
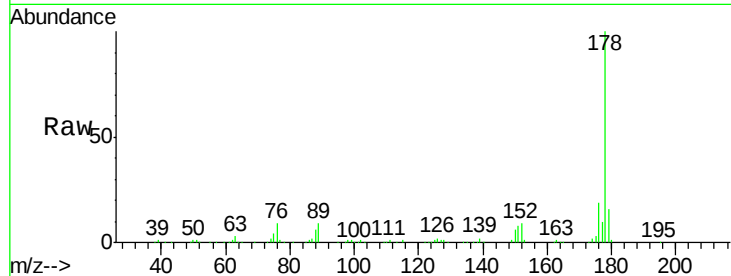
#71
 Anthracene
 Concen: 12.413 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	16.0	12.6	19.0

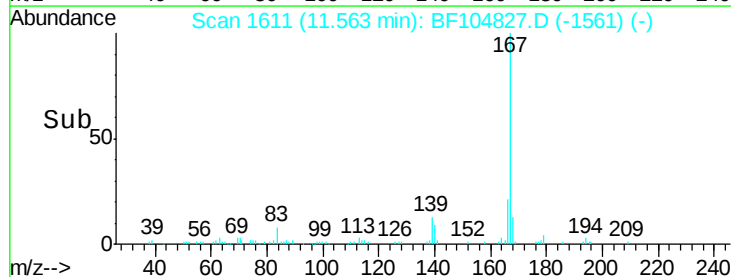
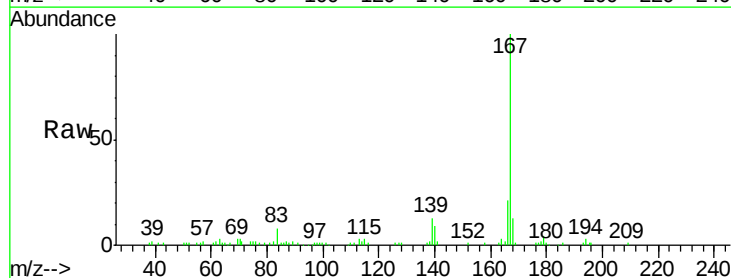
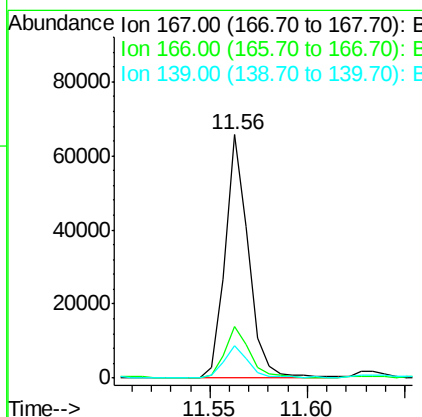
Manual Integrations
 APPROVED

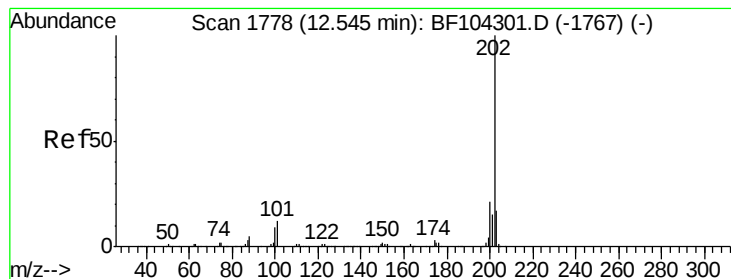
Sohil
 4/26/2018 6:15:23 PM



#72
 Carbazole
 Concen: 3.329 ng
 RT: 11.56 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.6	26.4
139	13.2	10.9	16.3





#74

Fluoranthene

Concen: 37.979 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.00 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Instrument :

BNA_F

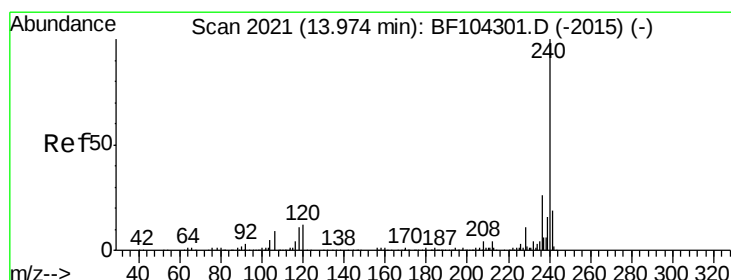
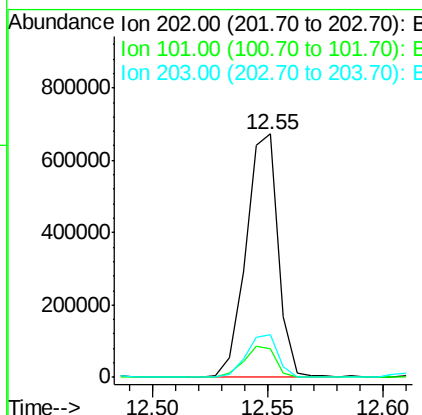
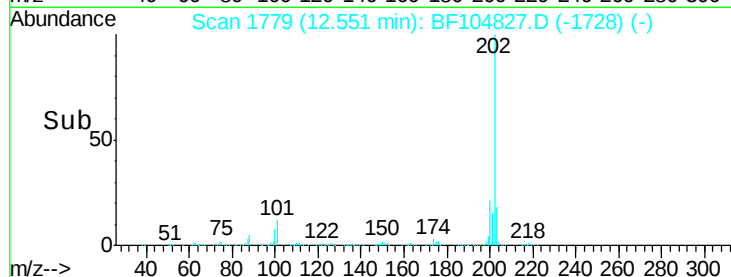
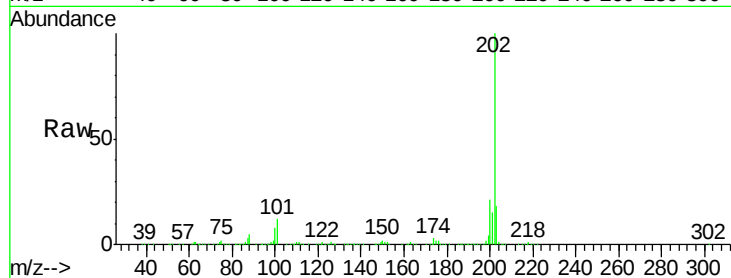
ClientSampleId :

A2-SB02-BOT-W-8.5DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		652872		
101	11.5	0.0	34.1		
203	17.5	0.0	38.1		

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

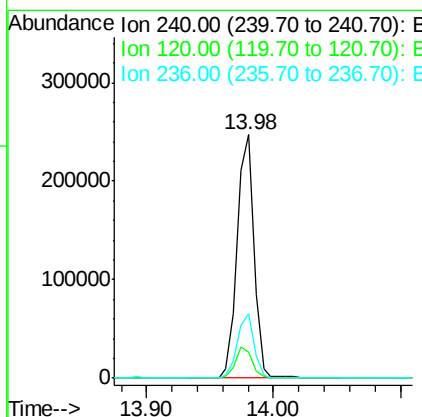
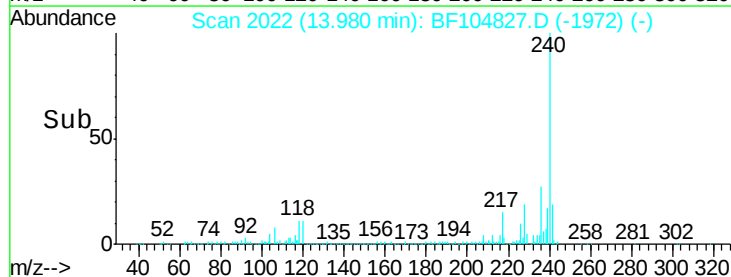
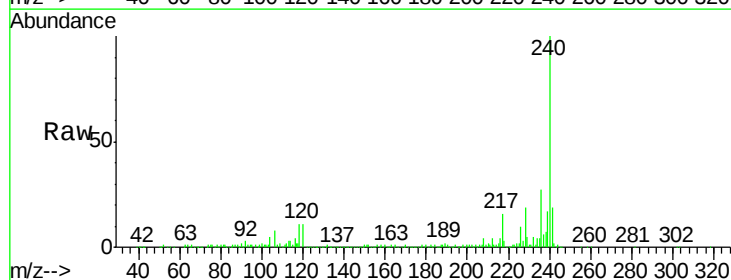
RT: 13.98 min Scan# 2022

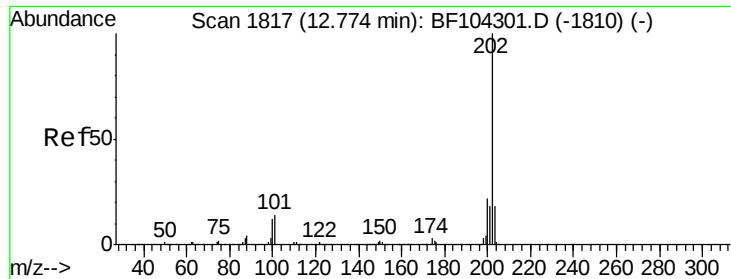
Delta R.T. -0.01 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		226238		
120	10.7	9.5	14.3		
236	26.6	20.7	31.1		





#77

Pvrene

Concen: 33.289 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Instrument :

BNA_F

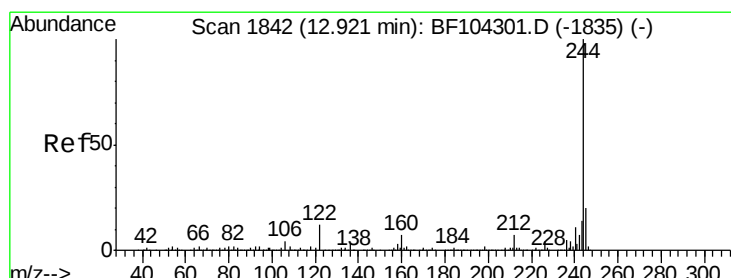
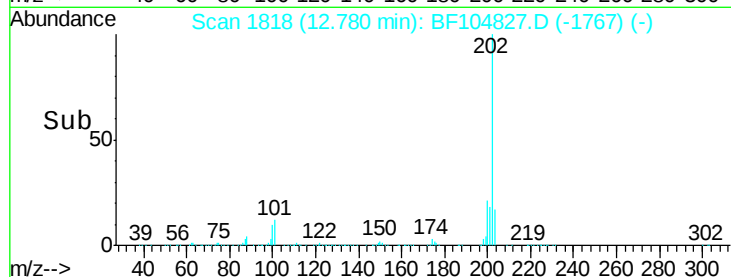
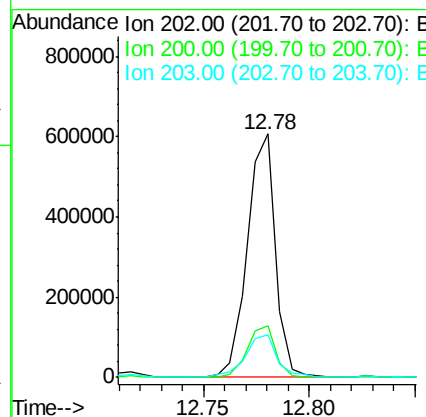
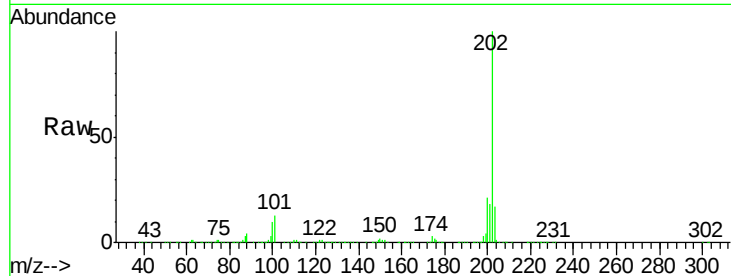
ClientSampleId :

A2-SB02-BOT-W-8.5DL

Tot Ion:	202	Resp:	558243
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	17.4	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 2.670 ng

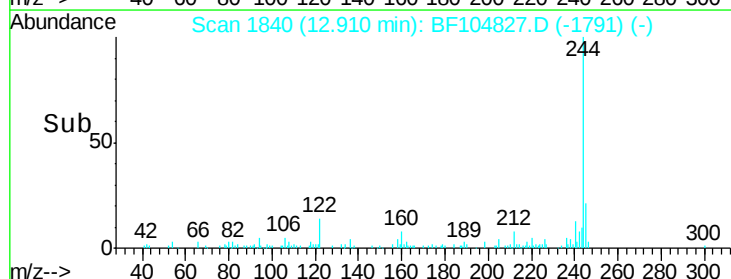
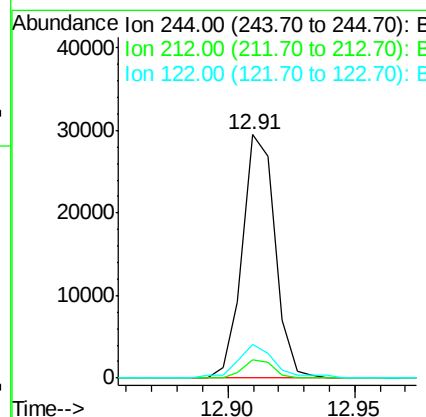
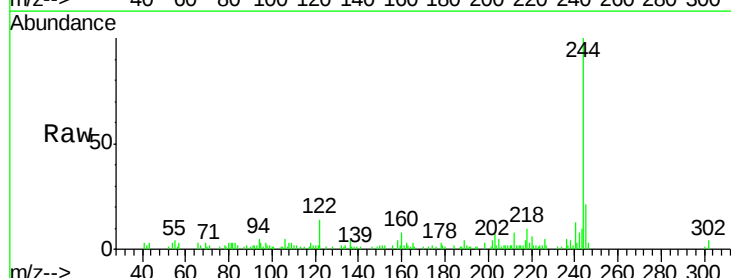
RT: 12.91 min Scan# 1840

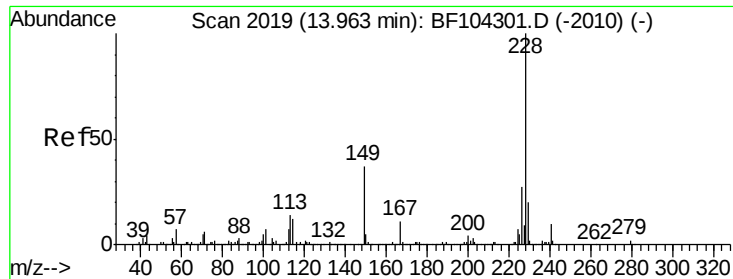
Delta R.T. -0.01 min

Lab File: BF104827.D

Acq: 26 Apr 2018 9:40

Tgt Ion:	244	Resp:	26491
Ion Ratio	Lower	Upper	
244	100		
212	7.6	5.4	8.0
122	14.1	11.0	16.4





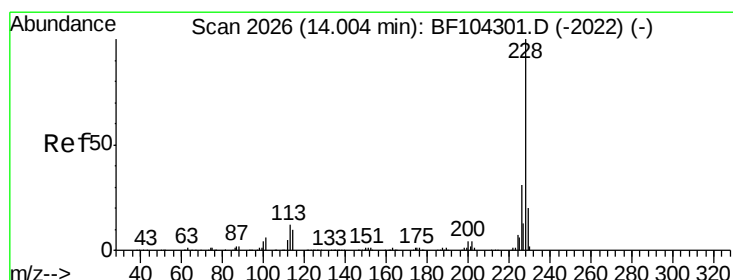
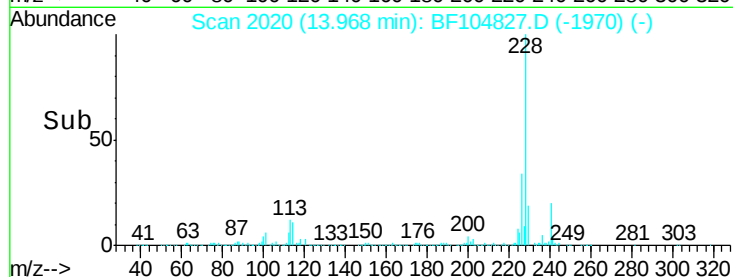
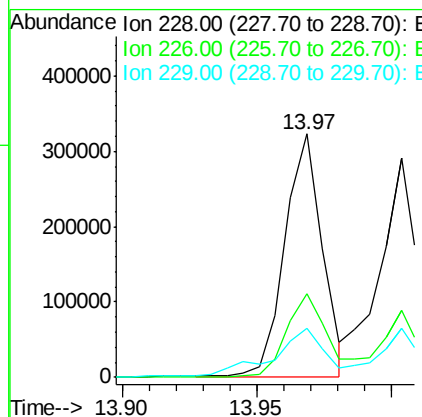
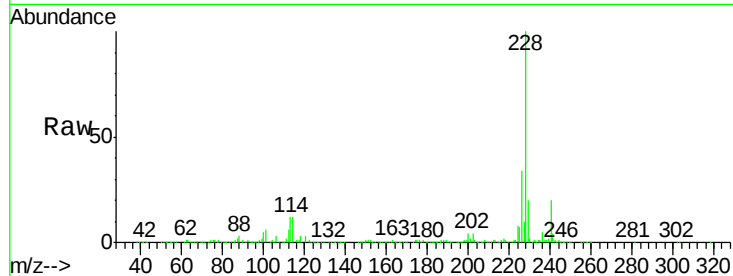
#80
Benzo(a)anthracene
Concen: 23.125 ng m
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.3	22.6	33.8#
229	20.2	15.8	23.6

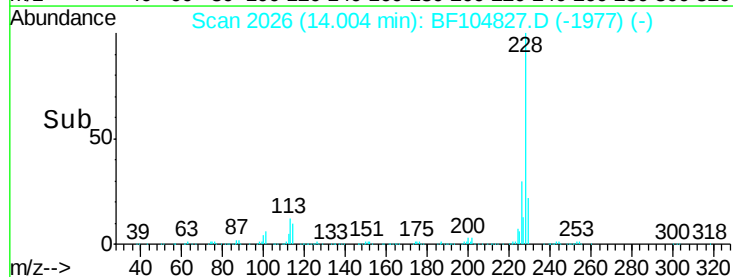
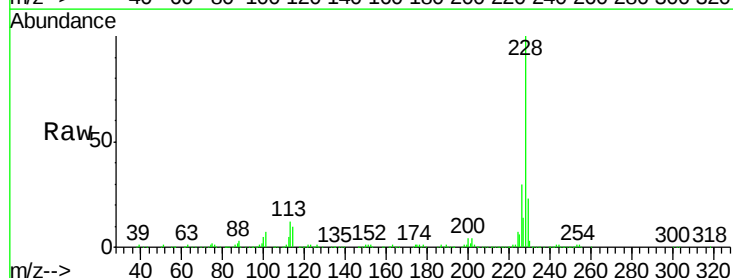
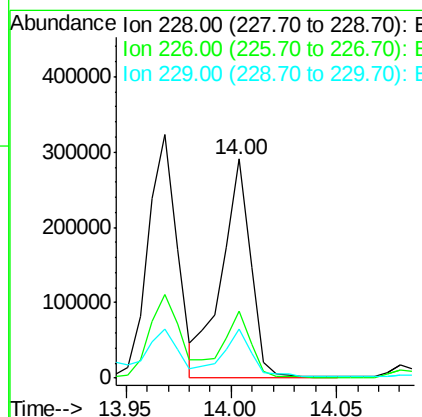
Manual Integrations
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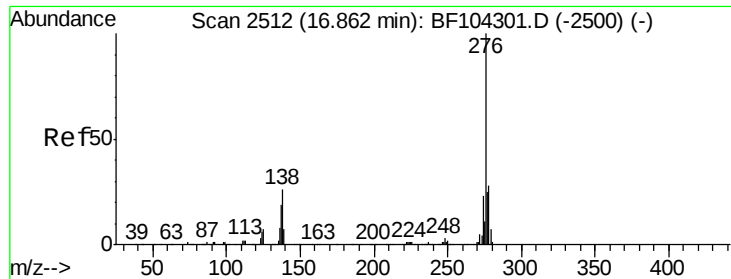
Sohil
4/26/2018 6:15:23 PM



#82
Chrysene
Concen: 20.257 ng m
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	22.7	16.2	24.4





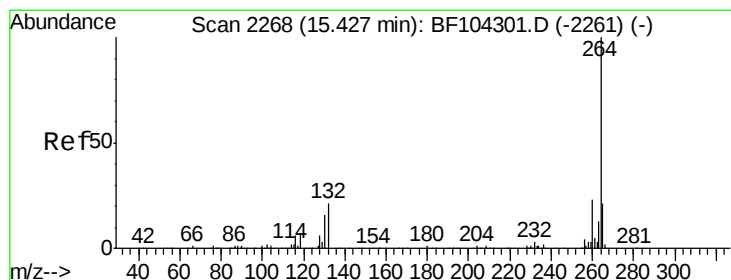
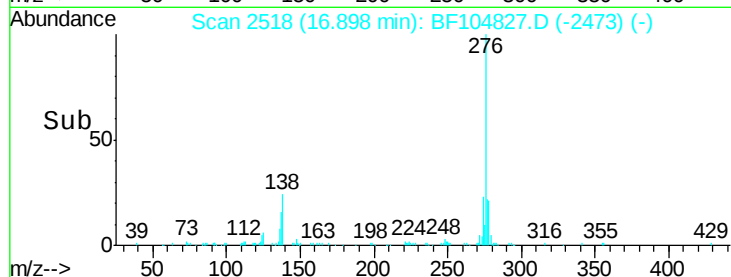
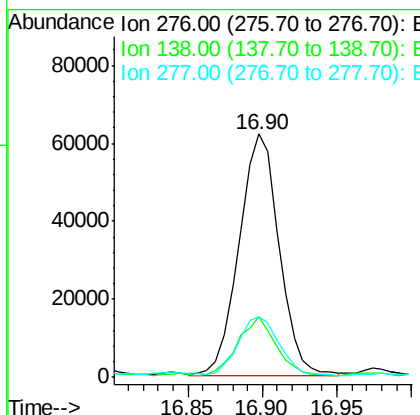
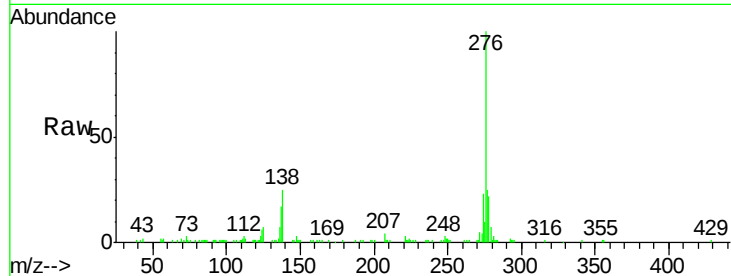
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.732 ng
 RT: 16.90 min Scan# 2518
 Delta R.T. -0.04 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.2	25.0	37.6#
277	25.0	20.1	30.1

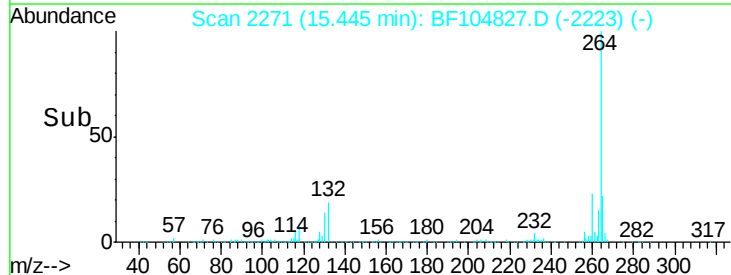
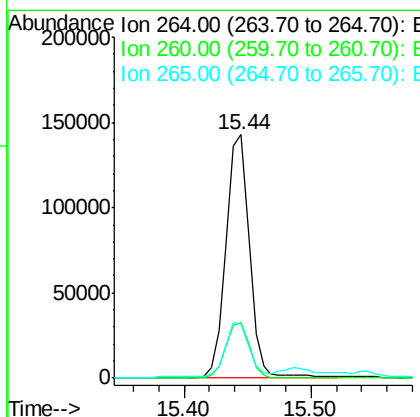
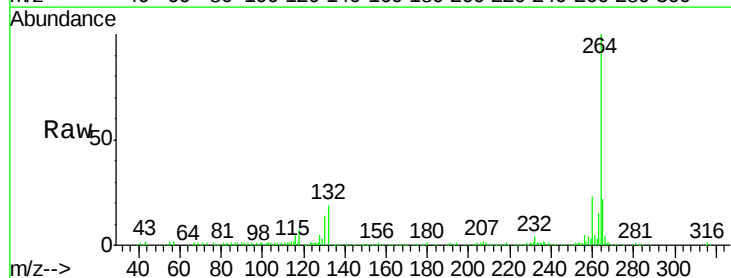
Manual Integrations
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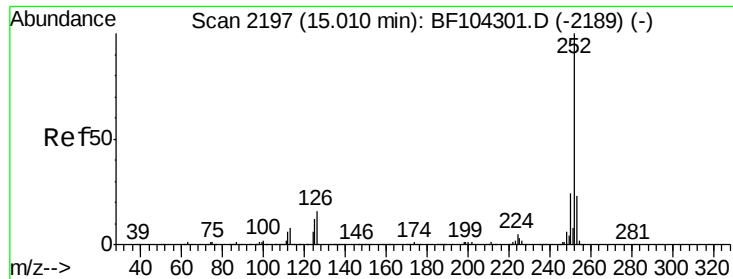
Sohil
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2271
 Delta R.T. -0.02 min
 Lab File: BF104827.D
 Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.2	28.8
265	22.1	17.5	26.3





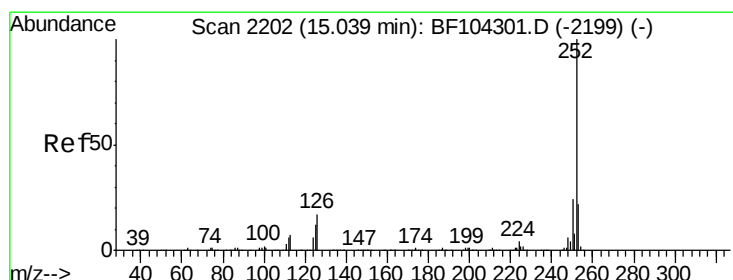
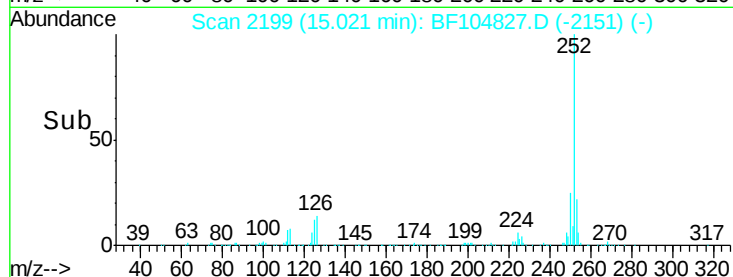
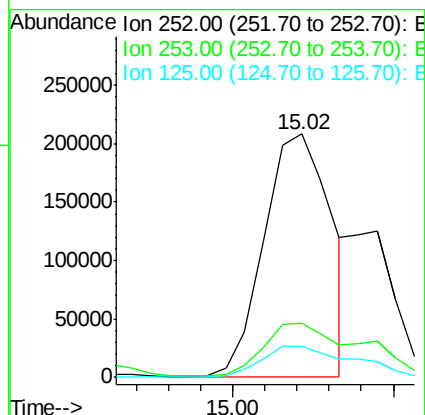
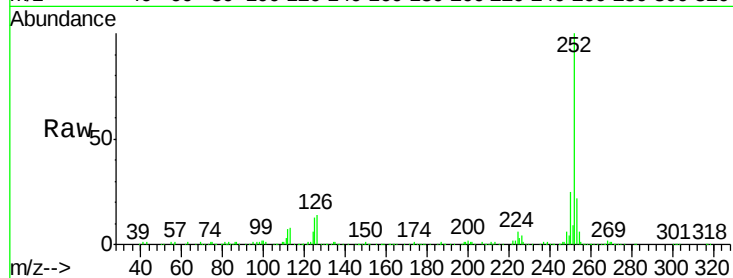
#87
Benzo(b)fluoranthene
Concen: 26.492 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion:	252	Resp:	303735
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.0	25.6
125	12.7	9.0	13.6

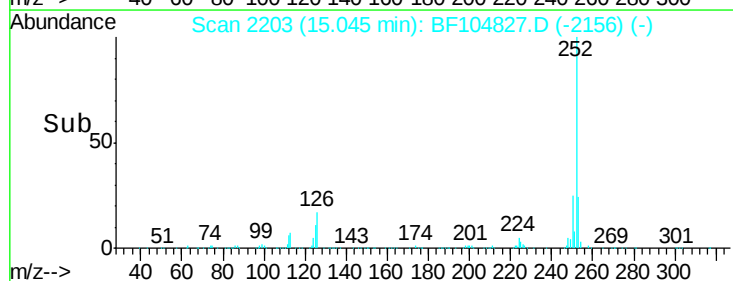
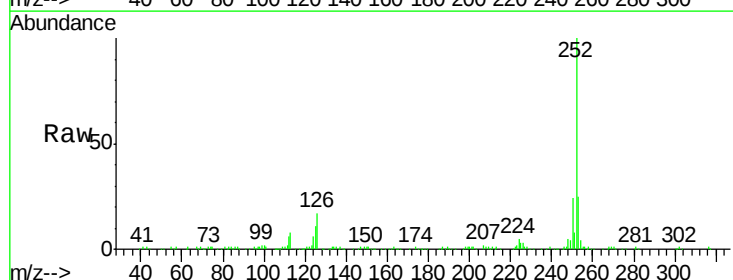
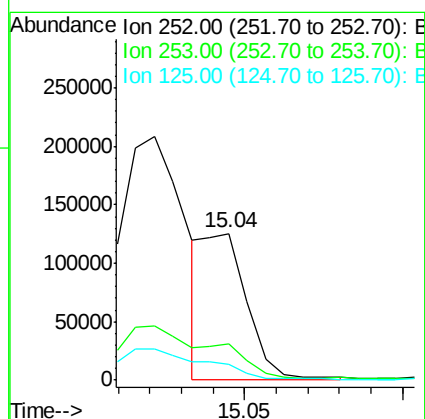
Manual Integrations
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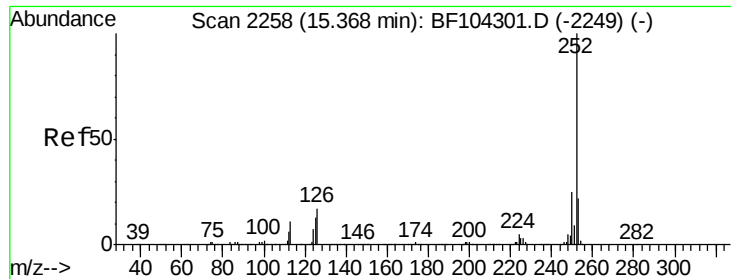
Sohil
4/26/2018 6:15:23 PM



#88
Benzo(k)fluoranthene
Concen: 11.237 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.02 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion:	252	Resp:	121634
Ion Ratio	Lower	Upper	
252	100		
253	24.9	17.9	26.9
125	11.0	10.2	15.2





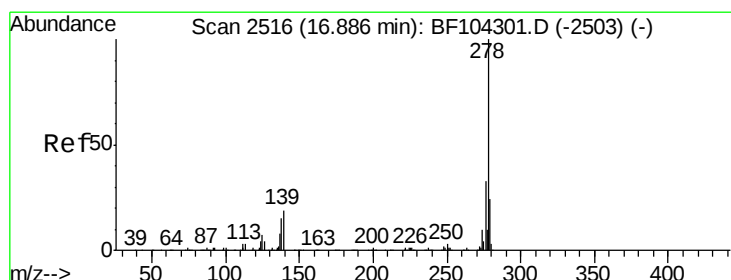
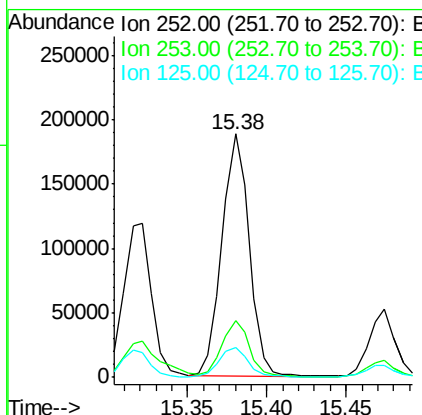
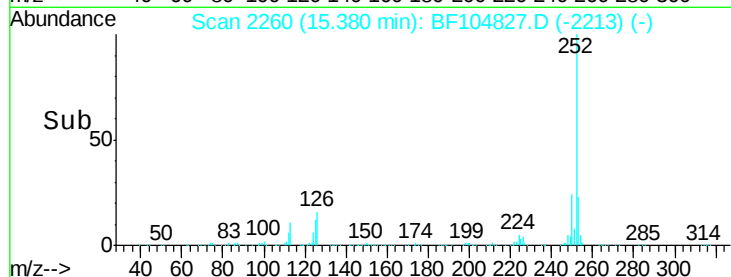
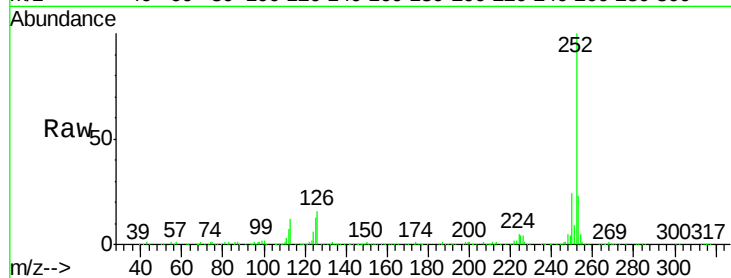
#89
Benzo(a)pyrene
Concen: 21.963 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.02 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	12.5	9.8	14.6

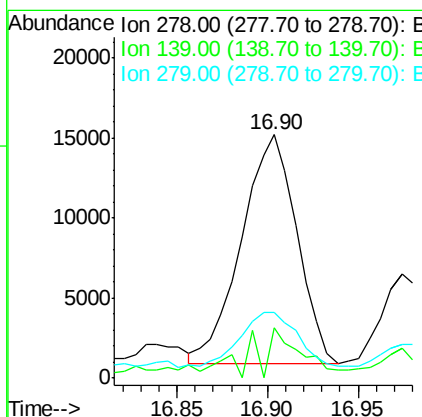
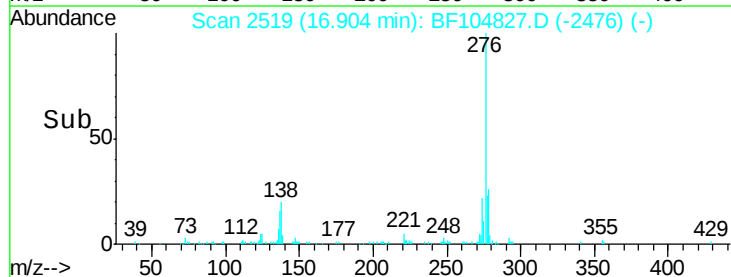
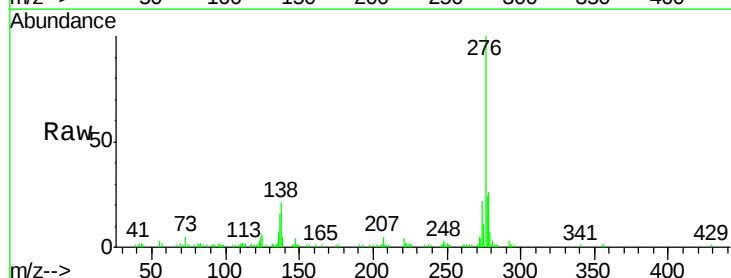
Manual Integrations
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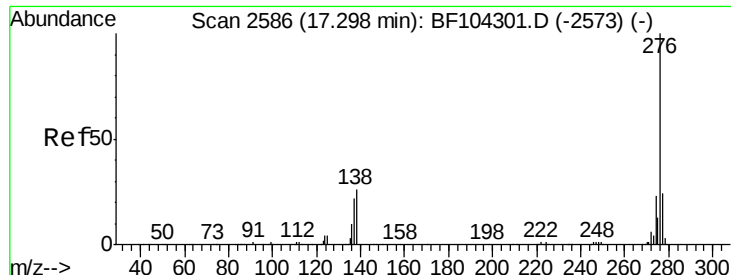
Sohil
4/26/2018 6:15:23 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.597 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.05 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.8	15.9	23.9
279	26.9	19.0	28.4





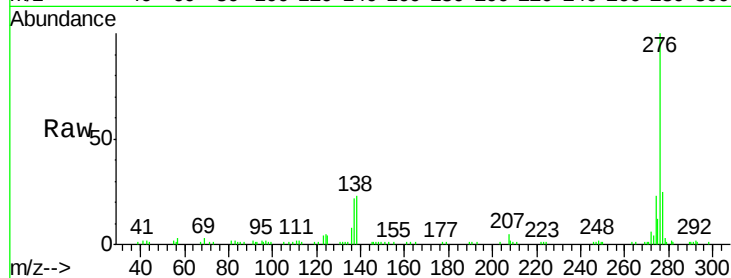
#91
Benzo(a,h,i)perylene
Concen: 12.770 ng
RT: 17.34 min Scan# 2593
Delta R.T. -0.04 min
Lab File: BF104827.D
Acq: 26 Apr 2018 9:40

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.9	26.9
138	23.3	21.8	32.8

Manual Integrations
APPROVED

Sohil
4/26/2018 6:15:23 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

