

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101366.D
 Acq On : 13 Dec 2017 9:05
 Operator : SJ/JU
 Sample : I6675-03DL 10X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

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

Manual Integrations
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 12/13/2017 2:08:04 PM

Quant Time: Dec 13 09:45:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	43564	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	156302	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	62418	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	107717	20.00	ng	0.00
75) Chrysene-d12	14.01	240	82380	20.00	ng	0.00
86) Perylene-d12	15.49	264	64402	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	32270	12.24	ng	0.00
7) Phenol-d6	6.46	99	41045	12.82	ng	0.00
23) Nitrobenzene-d5	7.39	82	19380	7.40	ng	-0.01
41) 2,4,6-Tribromophenol	10.66	330	6865	9.16	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	47711	10.46	ng	0.00
78) Terphenyl-d14	12.94	244	39239	10.42	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	78437	10.182	ng	98
37) 2-Methylnaphthalene	8.82	142	33406	6.382	ng	99
48) Acenaphthylene	9.73	152	26779	4.012	ng	99
51) Acenaphthene	9.90	154	22286	5.576	ng	97
54) Dibenzofuran	10.07	168	41966	7.287	ng	98
57) Fluorene	10.42	166	61946	13.231	ng	97
70) Phenanthrene	11.39	178	348947	58.825	ng	98
71) Anthracene	11.43	178	103915	17.309	ng	97
72) Carbazole	11.59	167	38191	6.962	ng	97
74) Fluoranthene	12.58	202	345469	52.539	ng	96
77) Pyrene	12.81	202	292035	51.374	ng	99
80) Benzo(a)anthracene	14.00	228	127627	24.537	ng	98
82) Chrysene	14.04	228	103784	21.485	ng	97
85) Indeno(1,2,3-cd)pyrene	16.98	276	35715	8.316	ng	# 91
87) Benzo(b)fluoranthene	15.06	252	99649m	25.832	ng	
88) Benzo(k)fluoranthene	15.08	252	32532m	8.560	ng	
89) Benzo(a)pyrene	15.43	252	70997	20.245	ng	99
90) Dibenzo(a,h)anthracene	16.98	278	10022	3.242	ng	# 72
91) Benzo(a,h,i)perylene	17.43	276	35819	12.293	ng	93

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

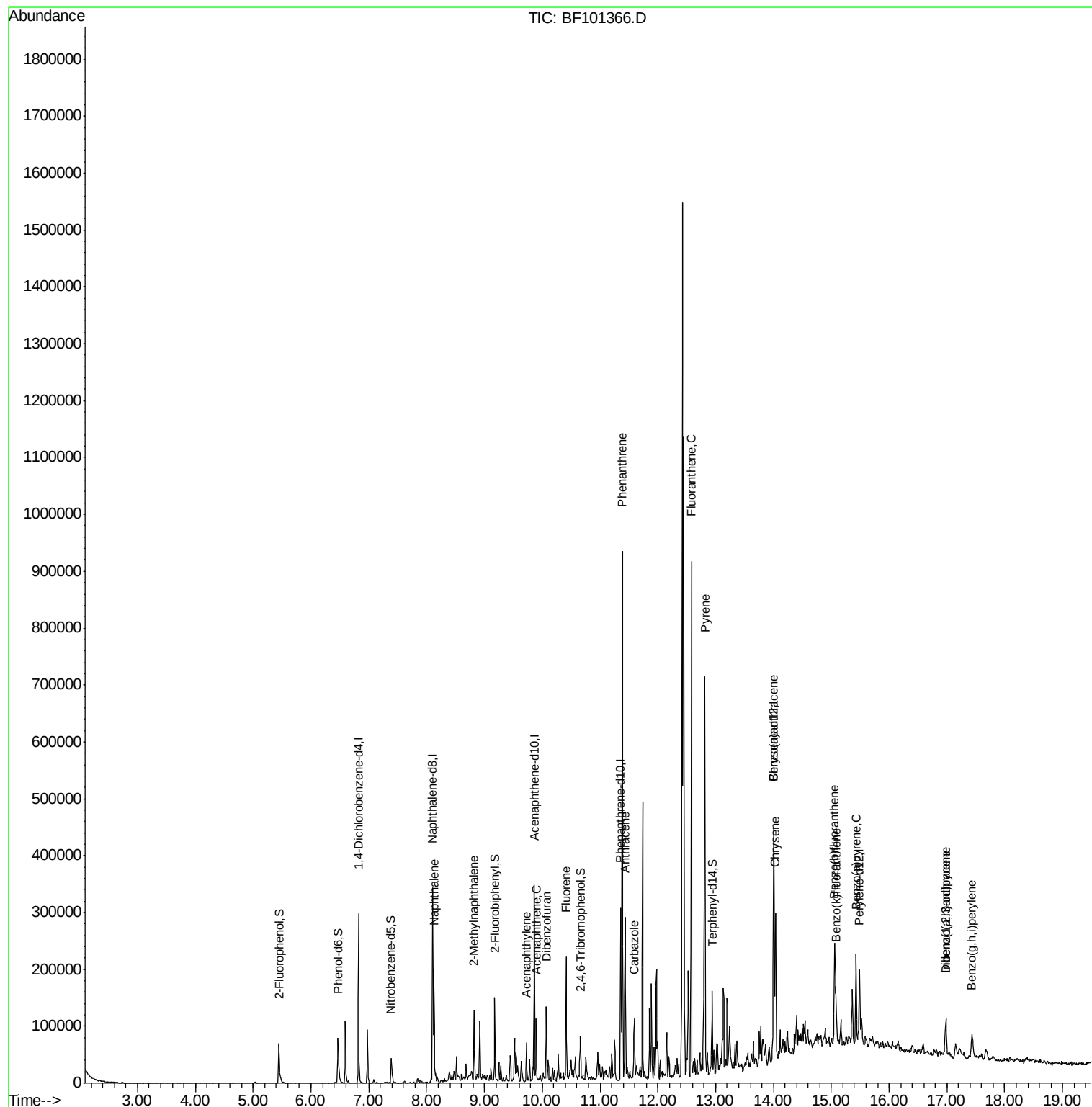
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#1

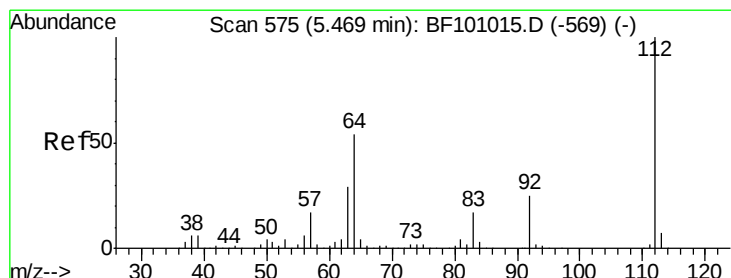
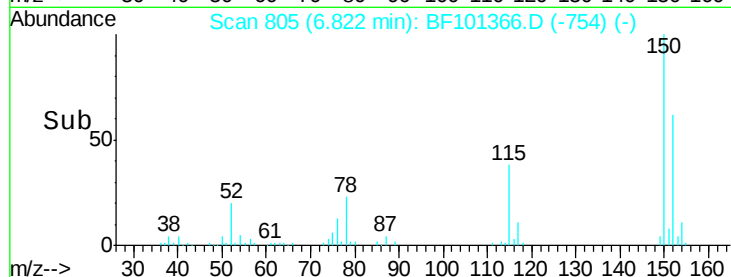
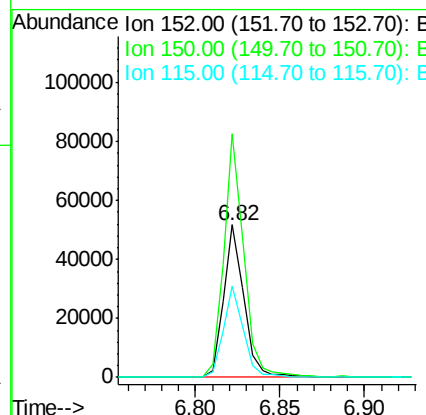
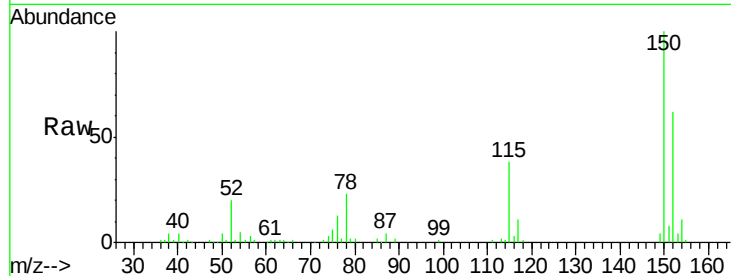
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.0	124.6	186.8
115	60.0	50.1	75.1

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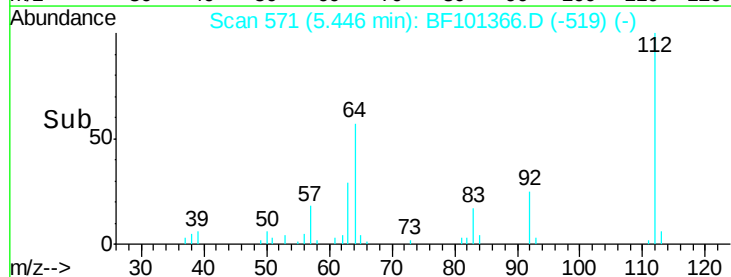
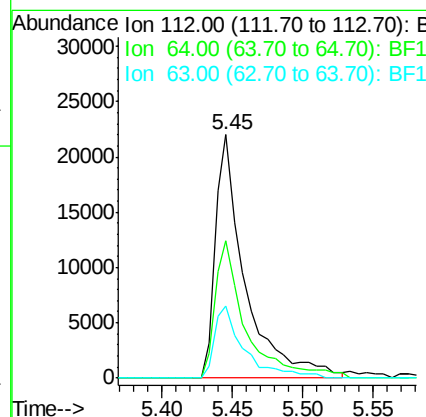
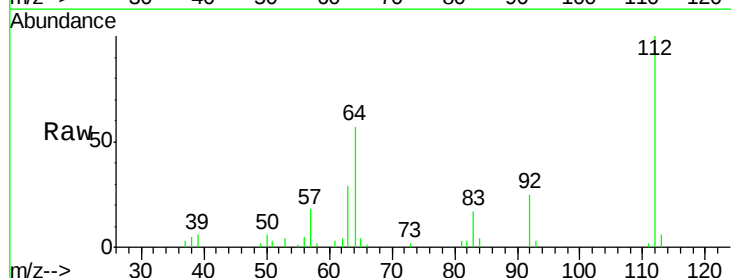
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#5

2-Fluorophenol
Concen: 12.240 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	47.9	71.9
63	29.5	23.7	35.5





#7

Phenol-d6

Concen: 12.823 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.00 min

Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Instrument :

BNA_F

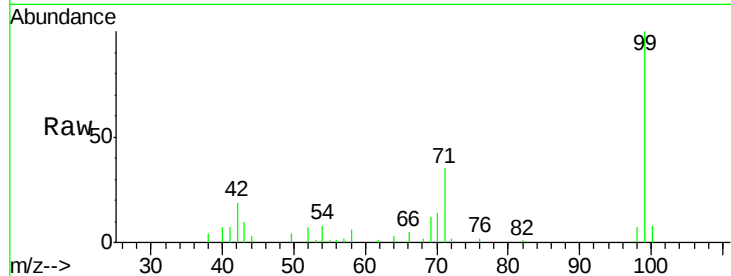
ClientSampleId :

SU-03-121117-ADL

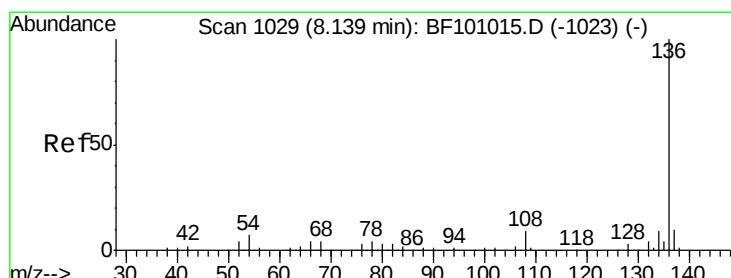
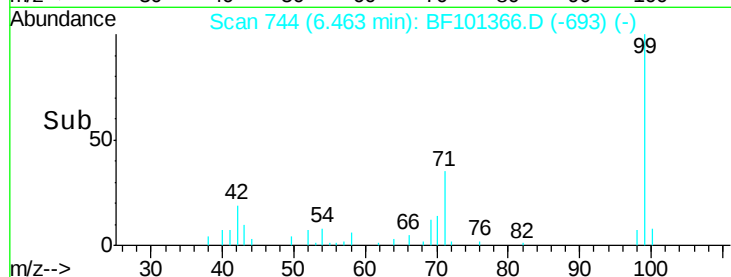
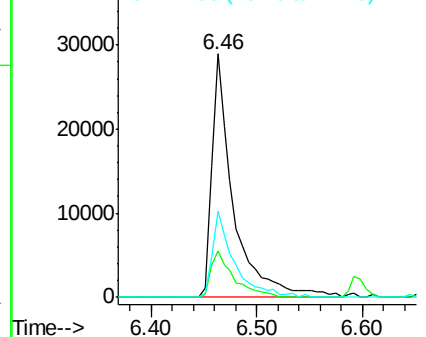
Tot Ion:	99	Resp:	41045
Ion Ratio	Lower	Upper	
99	100		
42	19.0	14.5	21.7
71	35.2	25.4	38.0

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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: 8.10 min Scan# 1023

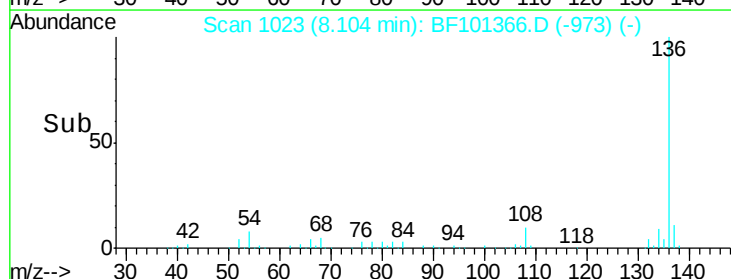
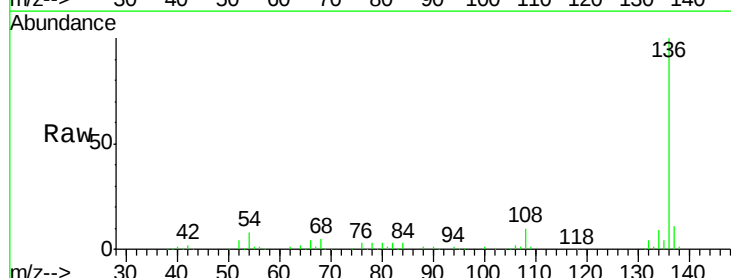
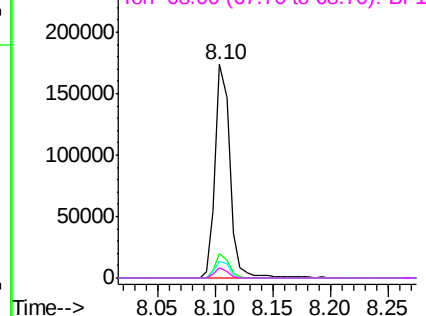
Delta R.T. -0.01 min

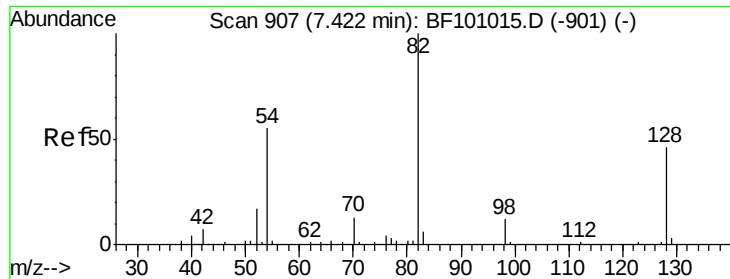
Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Tgt Ion:	136	Resp:	156302
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.1	6.6	9.8
68	5.1	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





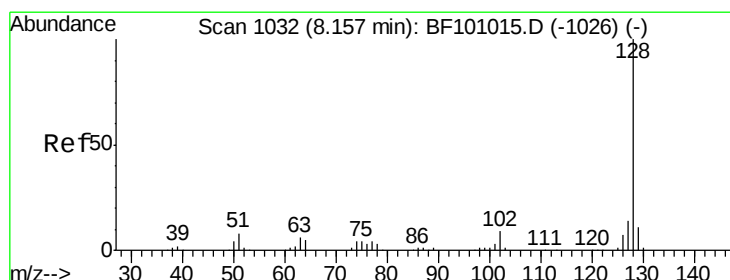
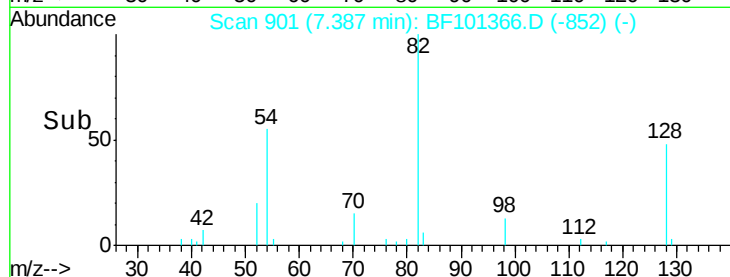
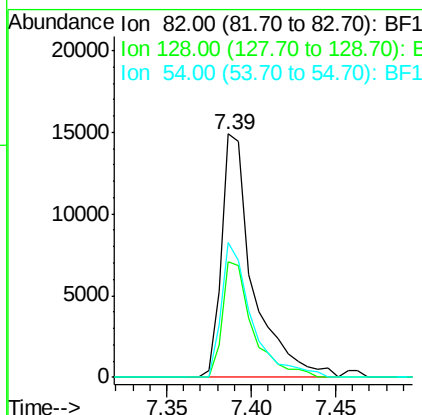
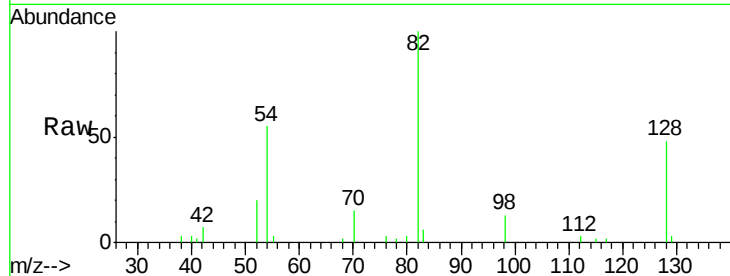
#23
Nitrobenzene-d5
Concen: 7.396 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.7	36.1	54.1
54	55.3	41.4	62.2

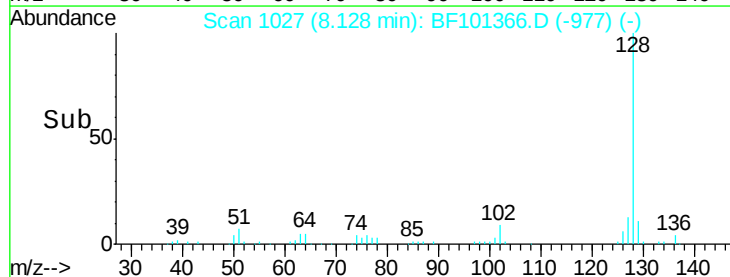
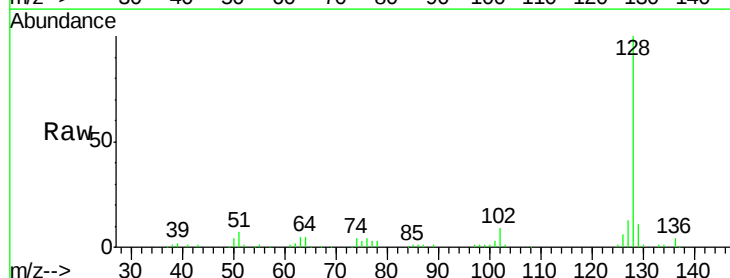
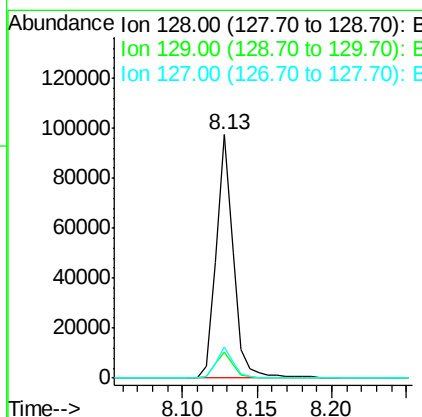
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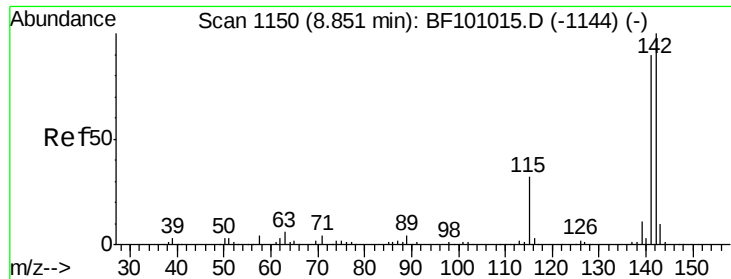
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#31
Naphthalene
Concen: 10.182 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	12.8	10.9	16.3





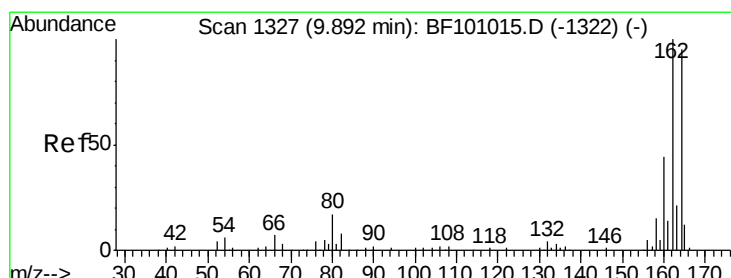
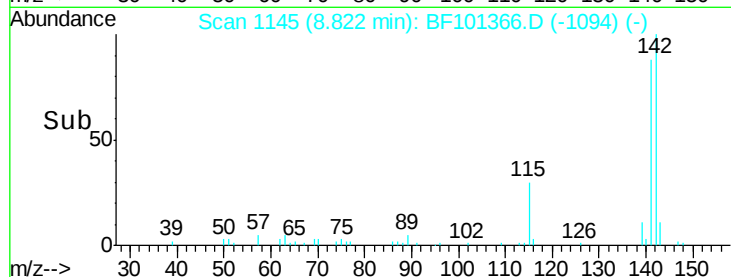
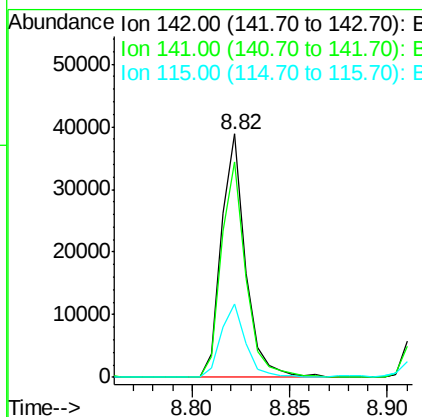
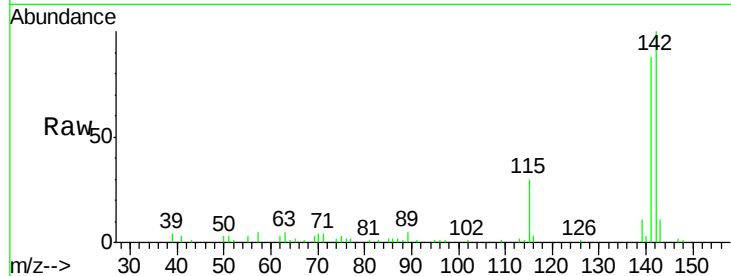
#37
2-Methylnaphthalene
Concen: 6.382 ng
RT: 8.82 min Scan# 1145
Delta R.T. 0.00 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.8	106.2
115	29.9	26.1	39.1

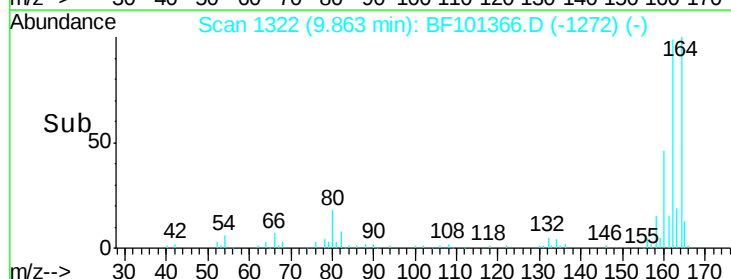
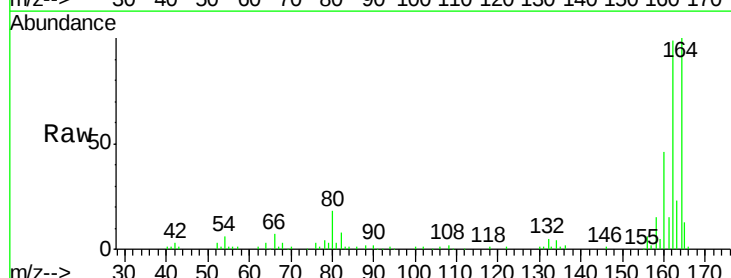
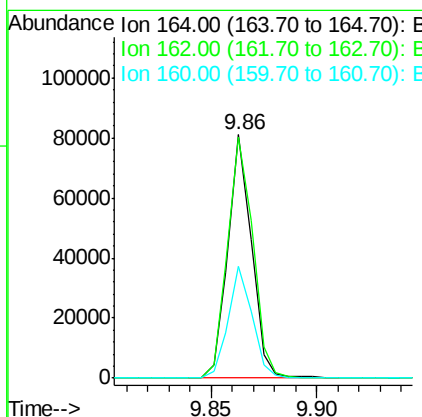
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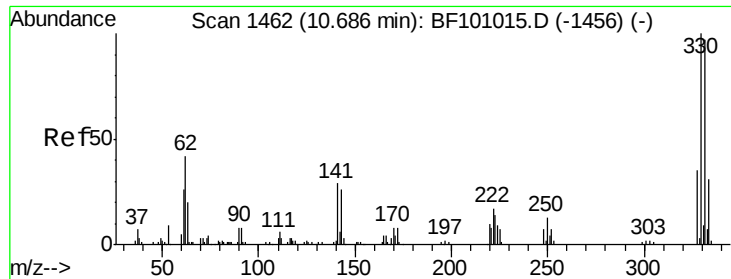
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.8	86.1	129.1
160	46.0	38.3	57.5





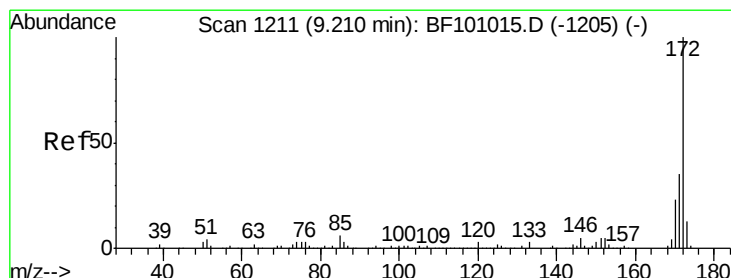
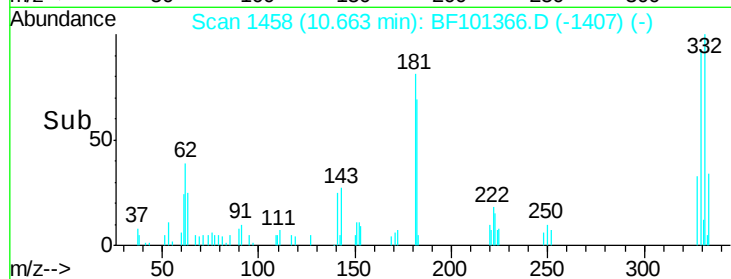
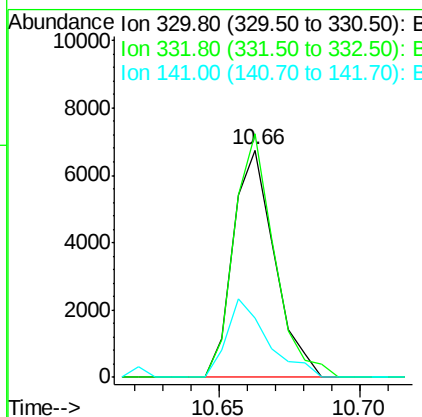
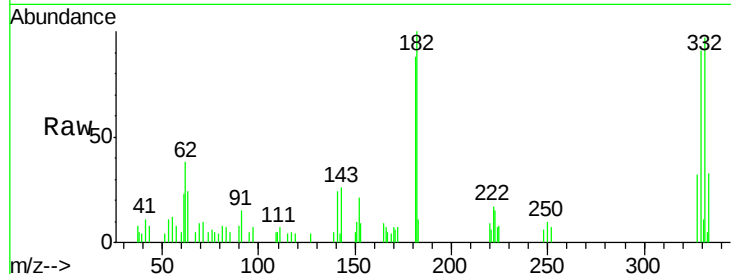
#41
 2,4,6-Tribromophenol
 Concen: 9.156 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. 0.00 min
 Lab File: BF101366.D
 Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	103.6	77.0	115.6	
141	34.1	29.9	44.9	

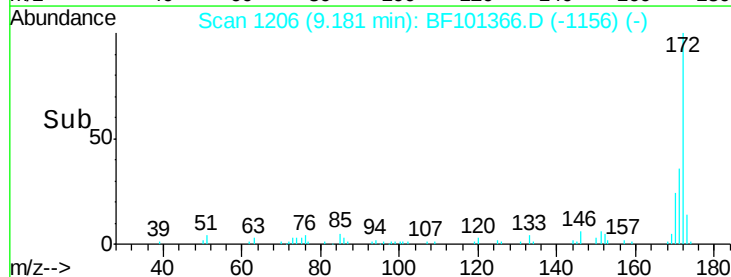
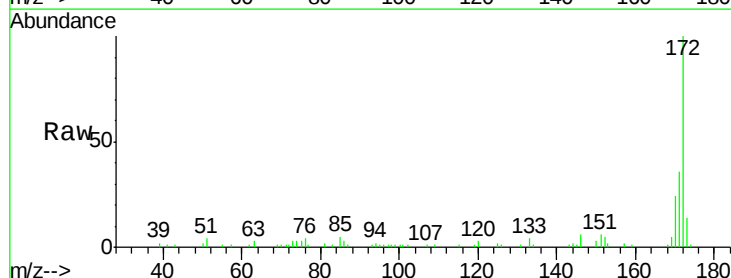
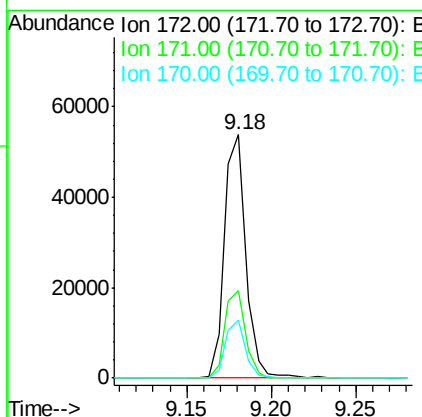
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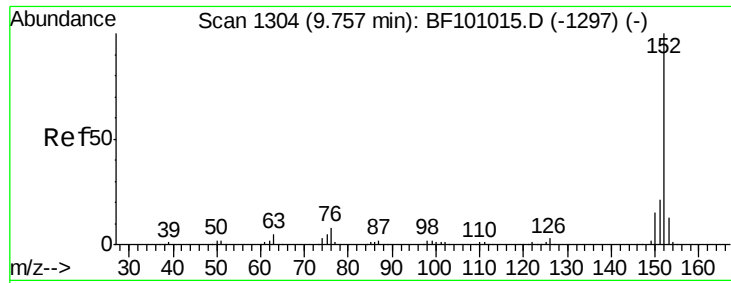
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#44
 2-Fluorobiphenyl
 Concen: 10.458 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: BF101366.D
 Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.8	29.7	44.5	
170	24.0	19.6	29.4	





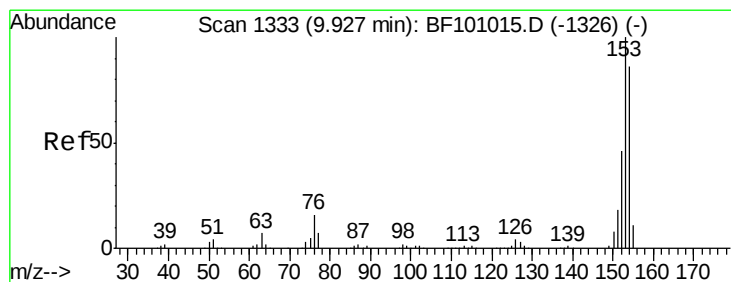
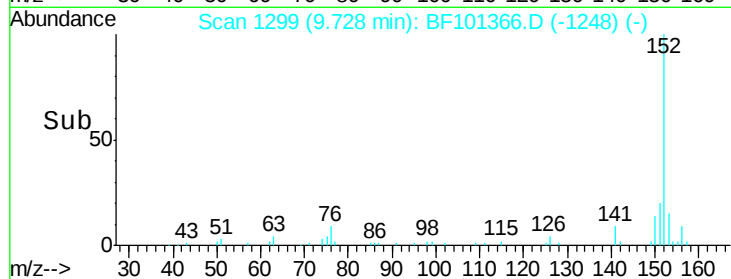
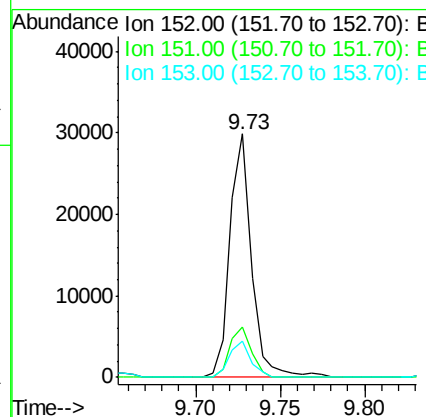
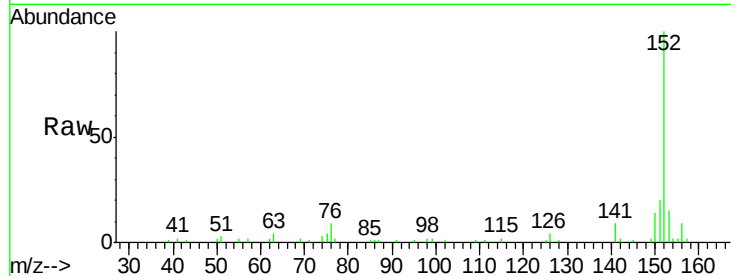
#48
Acenaphthylene
Concen: 4.012 ng
RT: 9.73 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Resp	Lower	Upper
152	100	26779		
151	20.5		16.3	24.5
153	14.7		10.7	16.1

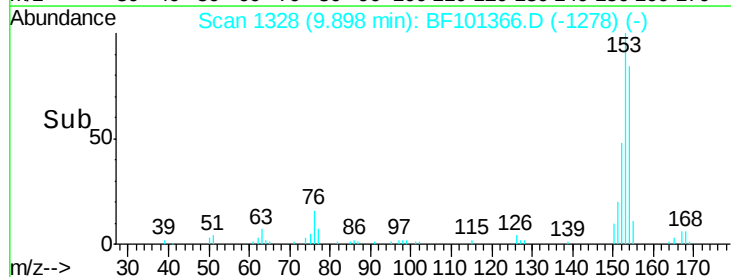
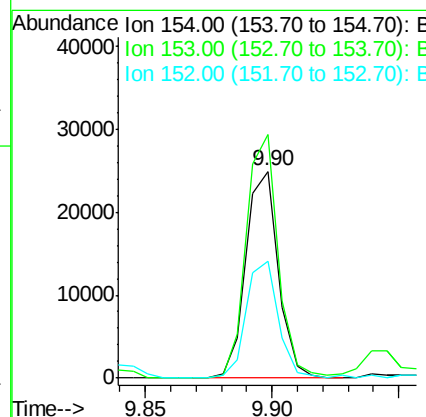
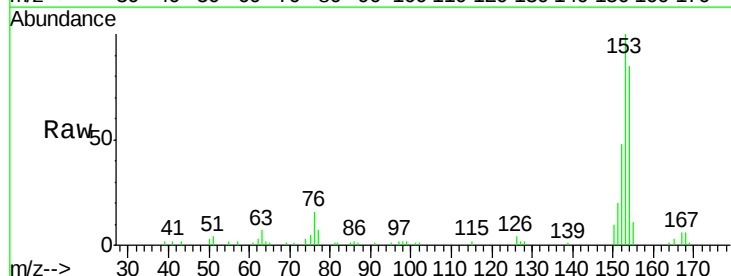
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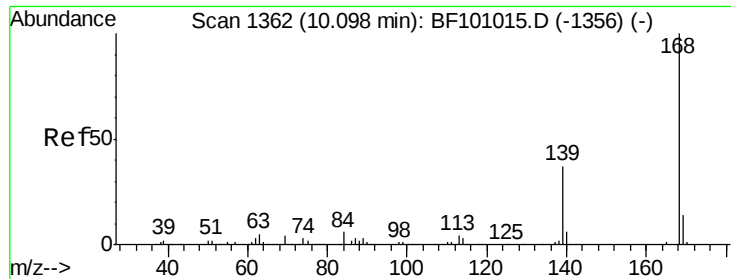
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#51
Acenaphthene
Concen: 5.576 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	22286		
153	117.8		91.2	136.8
152	56.4		43.8	65.8





#54

Dibenzenofuran

Concen: 7.287 ng

RT: 10.07 min Scan# 1357

Delta R.T. -0.01 min

Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Instrument :

BNA_F

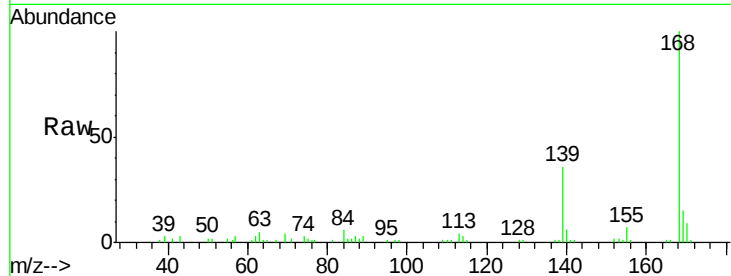
ClientSampleId :

SU-03-121117-ADL

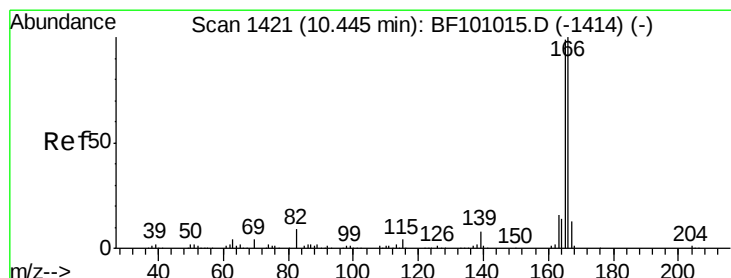
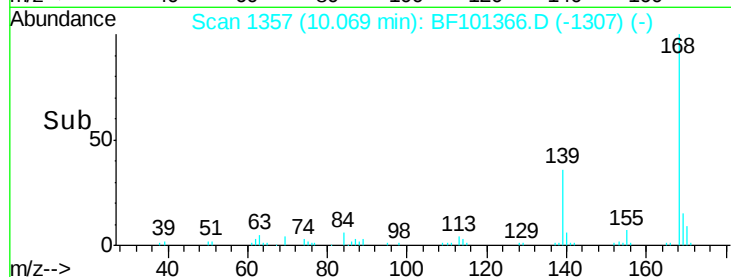
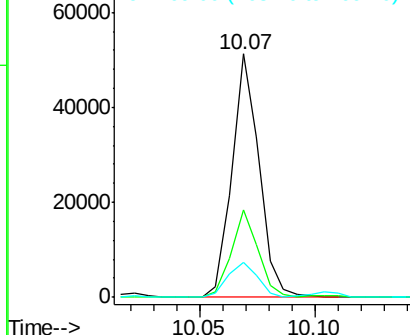
Tot Ion:	168	Resp:	41966
Ion	Ratio	Lower	Upper
168	100		
139	36.2	30.1	45.1
169	14.6	10.9	16.3

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



#57

Fluorene

Concen: 13.231 ng

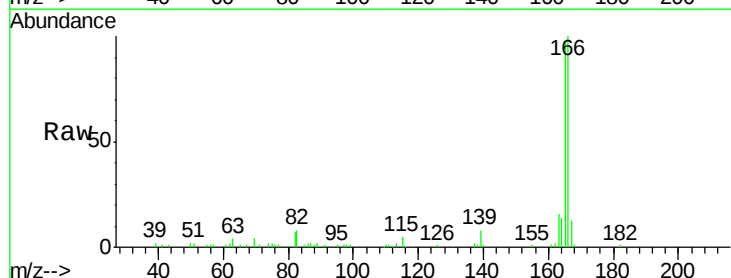
RT: 10.42 min Scan# 1416

Delta R.T. 0.00 min

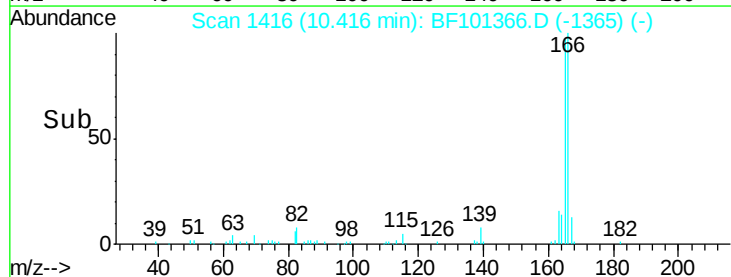
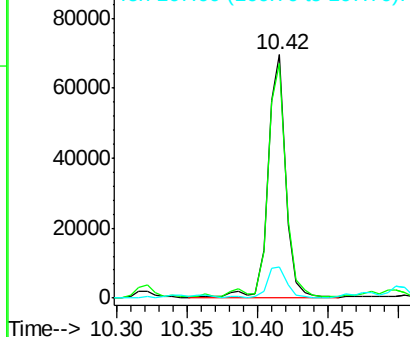
Lab File: BF101366.D

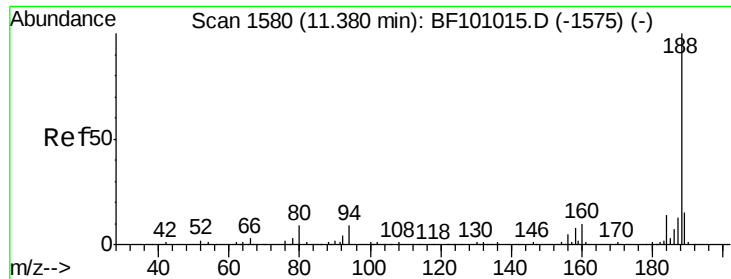
Acq: 13 Dec 2017 9:05

Tgt Ion:	166	Resp:	61946
Ion	Ratio	Lower	Upper
166	100		
165	96.6	79.8	119.8
167	12.9	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





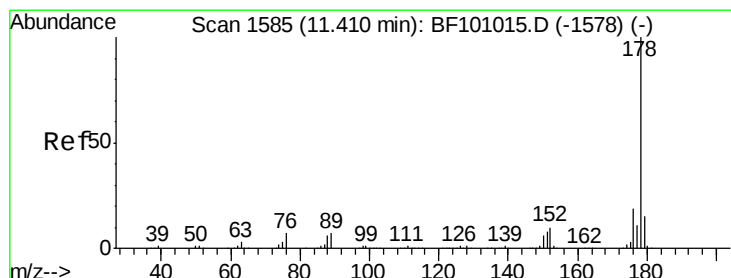
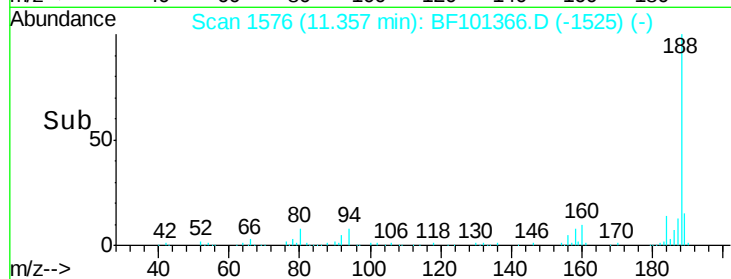
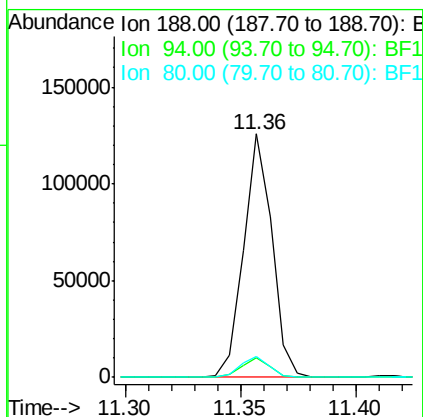
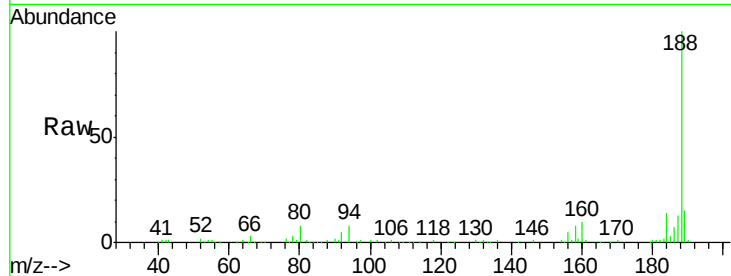
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.00 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Resp	Lower	Upper
188	100	107717		
94	8.3		8.5	12.7#
80	8.5		9.2	13.8#

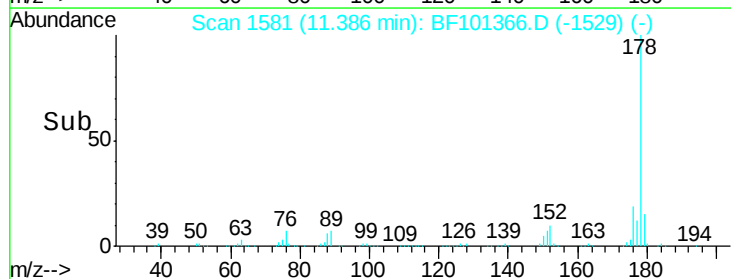
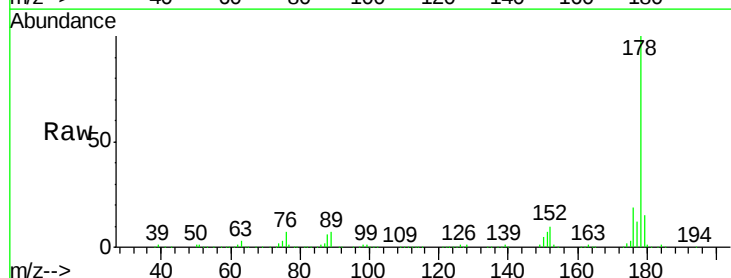
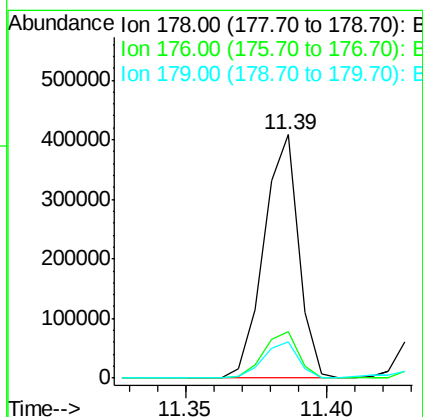
Manual Integrations
APPROVED

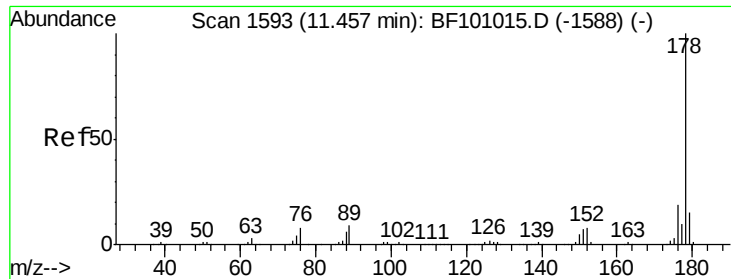
Sohil
12/13/2017 2:08:04 PM



#70
Phenanthrene
Concen: 58.825 ng
RT: 11.39 min Scan# 1581
Delta R.T. 0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	348947		
176	18.9		15.8	23.8
179	15.0		13.0	19.6





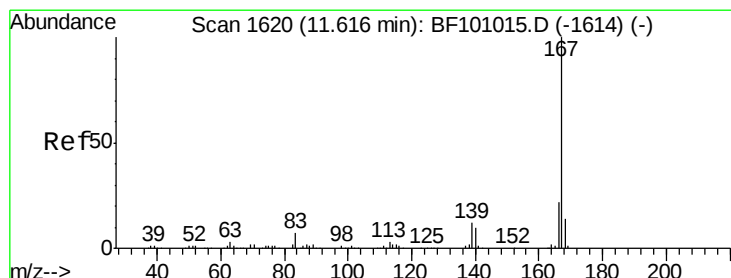
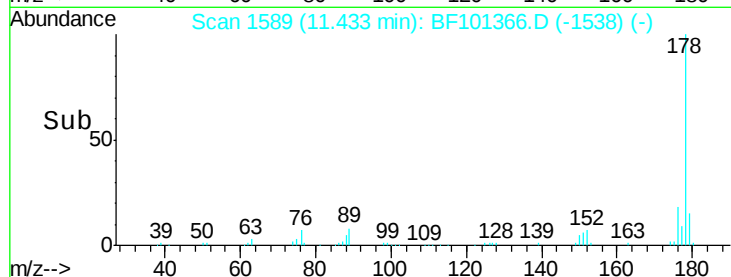
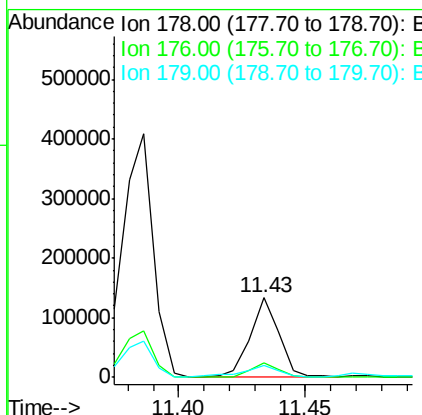
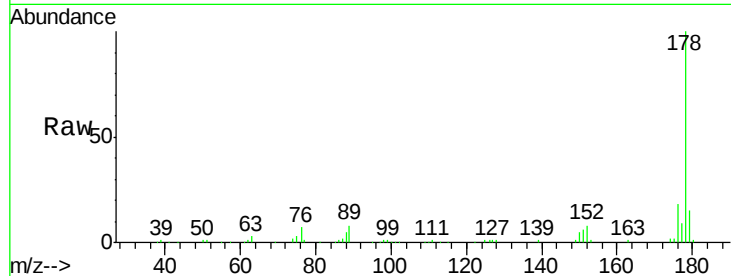
#71
 Anthracene
 Concen: 17.309 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: BF101366.D
 Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.2
179	14.6	12.6	19.0

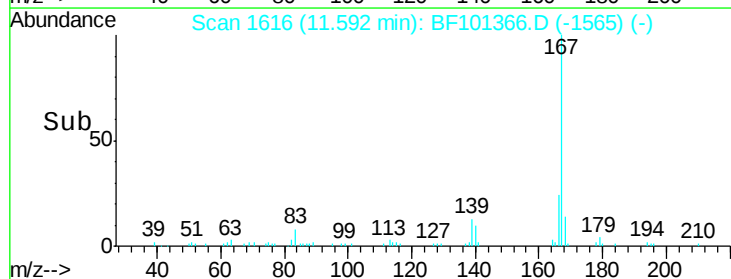
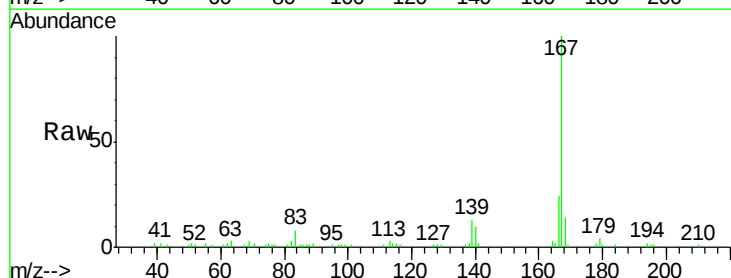
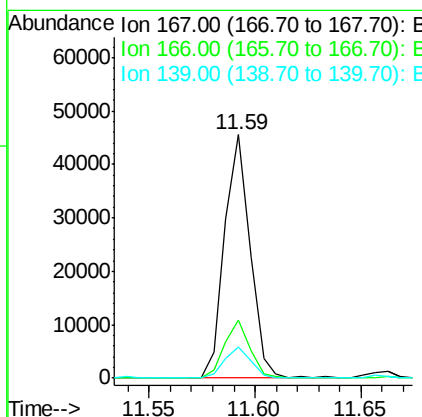
Manual Integrations
 APPROVED

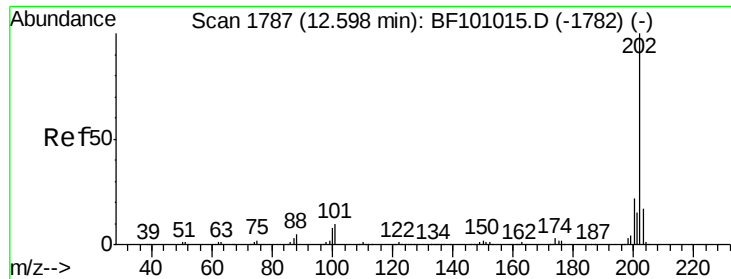
Sohil
 12/13/2017 2:08:04 PM



#72
 Carbazole
 Concen: 6.962 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. 0.00 min
 Lab File: BF101366.D
 Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.8	17.6	26.4
139	12.6	10.9	16.3





#74

Fluoranthene

Concen: 52.539 ng

RT: 12.58 min Scan# 1784

Delta R.T. 0.01 min

Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Instrument :

BNA_F

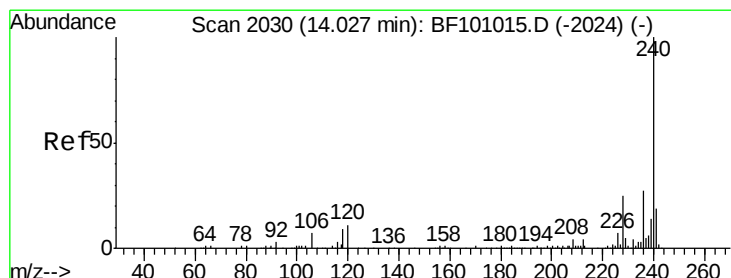
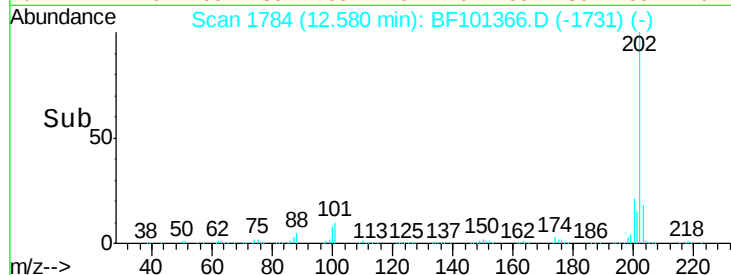
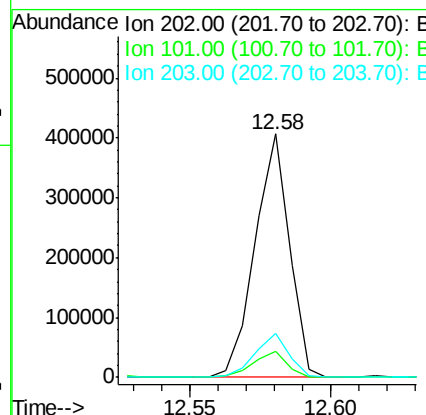
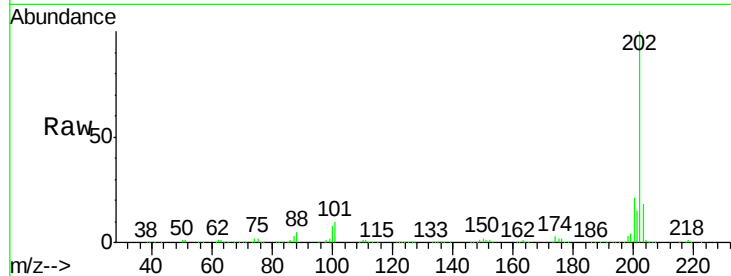
ClientSampleId :

SU-03-121117-ADL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	345469		
101	10.5	0.0	34.1	
203	17.9	0.0	38.1	

Manual Integrations
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Sohil
12/13/2017 2:08:04 PM



#75

Chrysene-d12

Concen: 20.000 ng

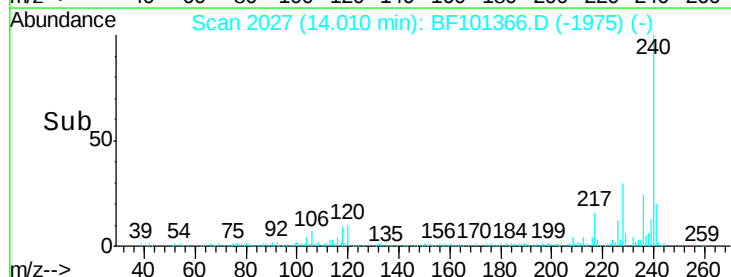
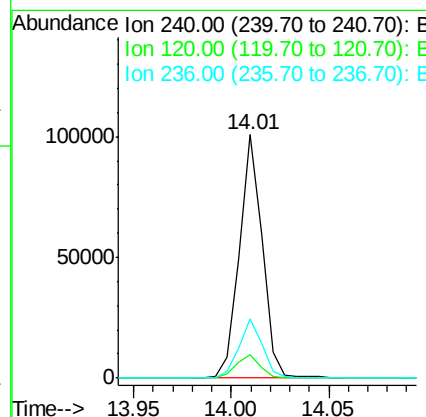
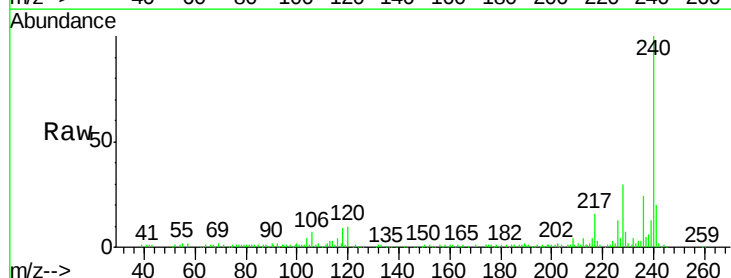
RT: 14.01 min Scan# 2027

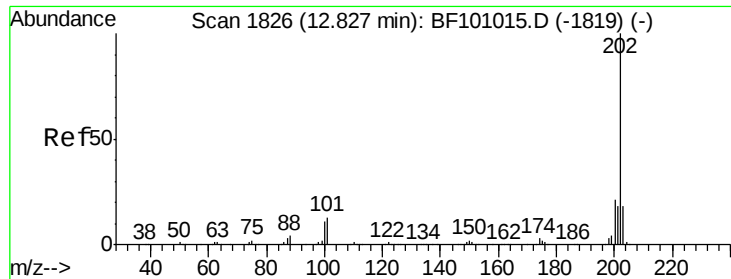
Delta R.T. 0.01 min

Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	82380		
120	9.8	9.5	14.3	
236	24.3	20.7	31.1	





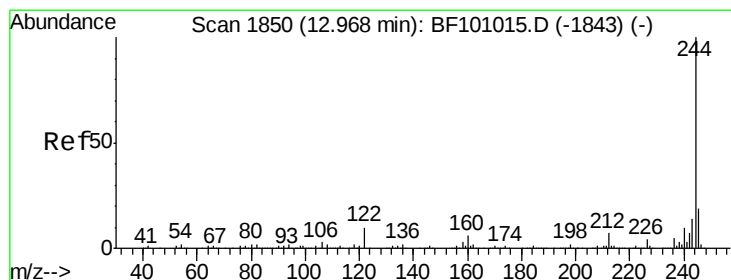
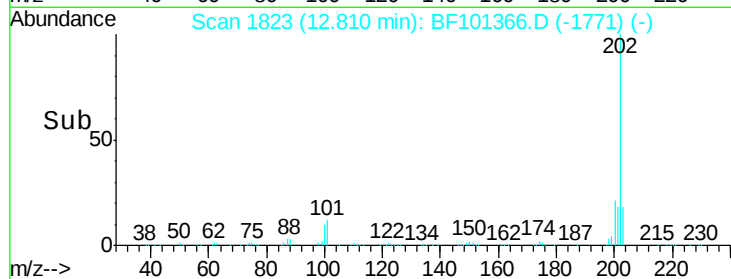
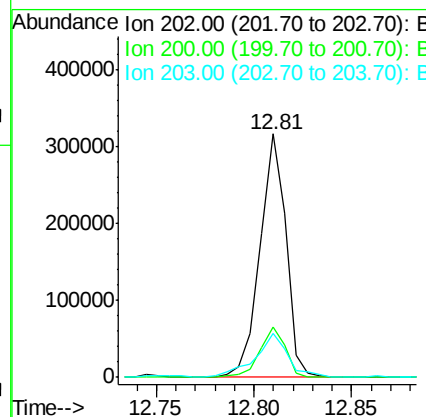
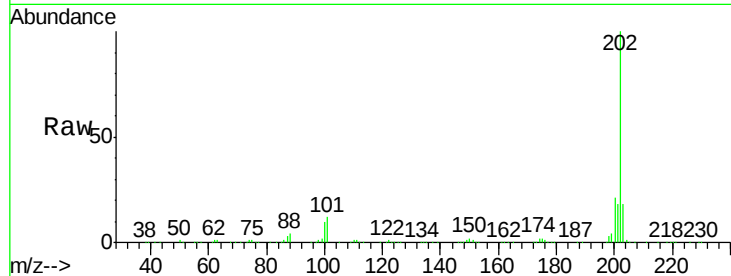
#77
Pvrene
Concen: 51.374 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.9	17.4	26.2
203	17.9	14.3	21.5

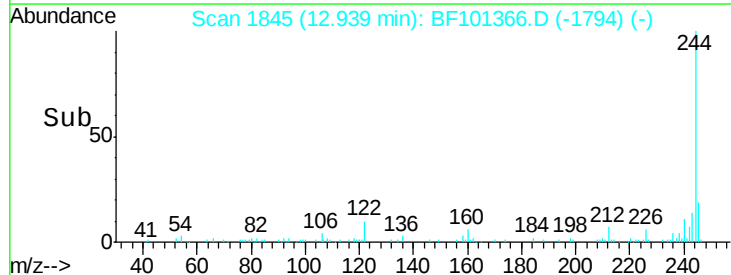
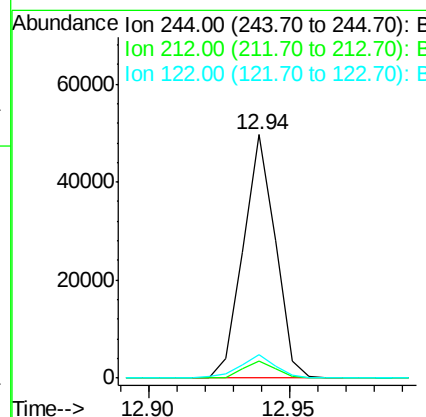
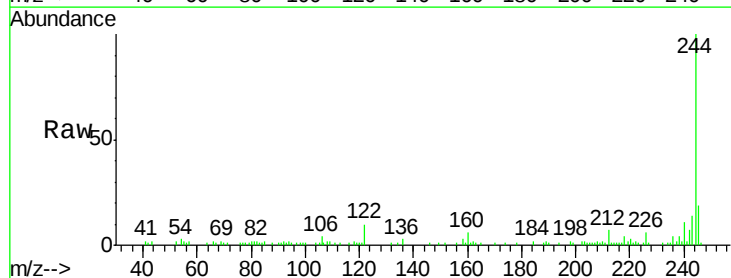
Manual Integrations
APPROVED

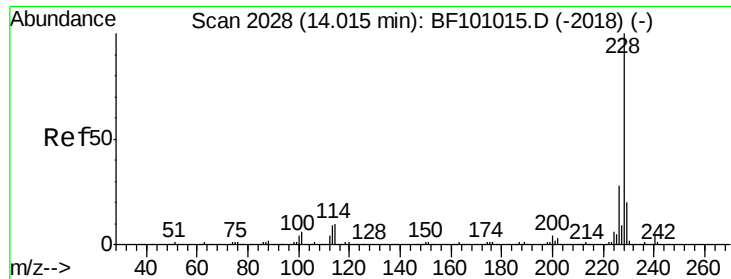
Sohil
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#78
Terphenyl-d14
Concen: 10.418 ng
RT: 12.94 min Scan# 1845
Delta R.T. 0.00 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.1	5.4	8.0
122	9.6	11.0	16.4





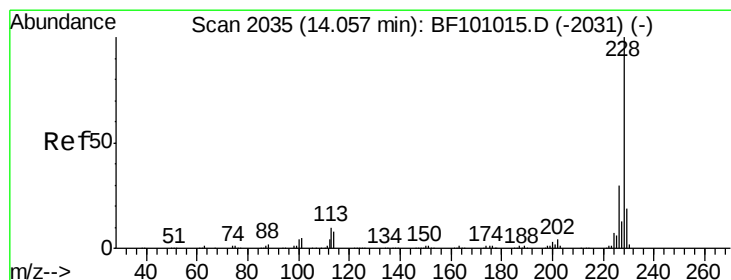
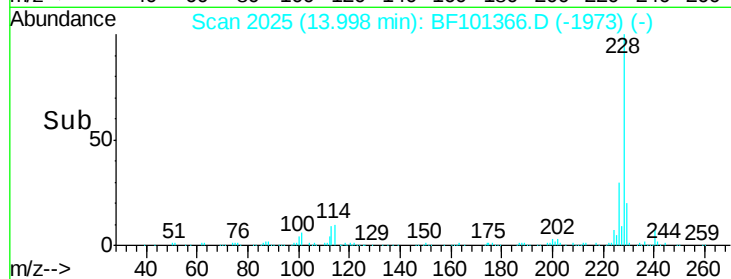
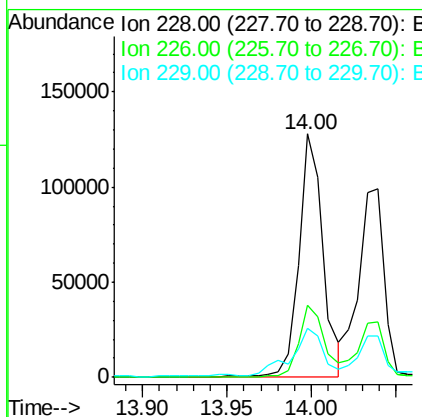
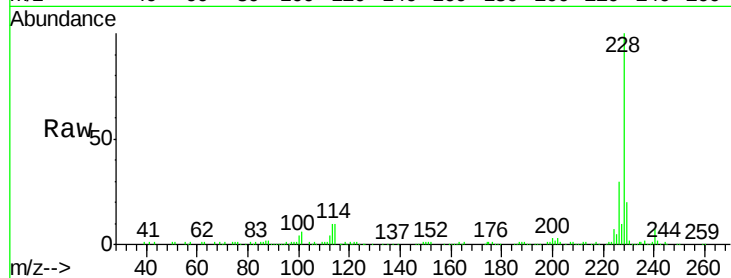
#80
Benzo(a)anthracene
Concen: 24.537 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	20.3	15.8	23.6

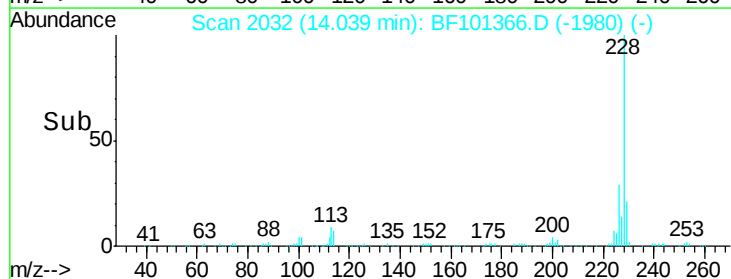
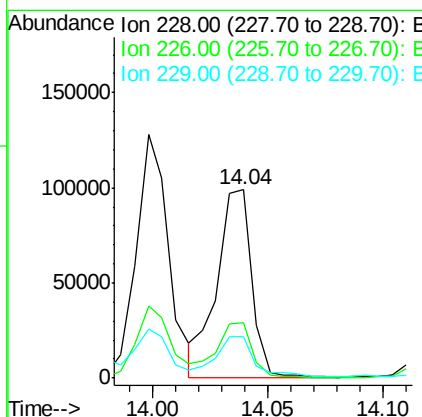
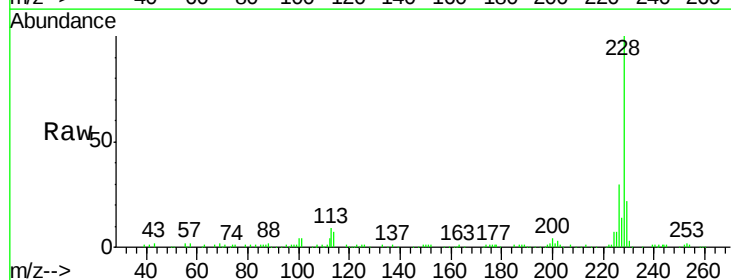
Manual Integrations
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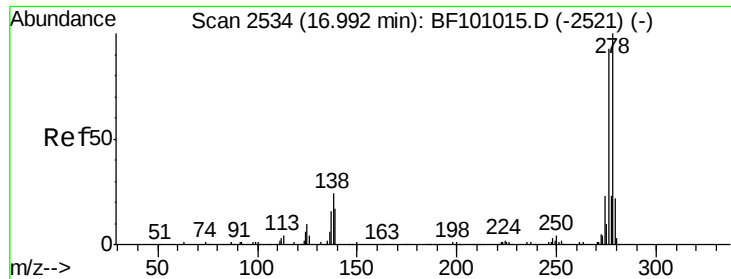
Sohil
12/13/2017 2:08:04 PM



#82
Chrysene
Concen: 21.485 ng
RT: 14.04 min Scan# 2032
Delta R.T. 0.01 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.0	37.6
229	21.9	16.2	24.4





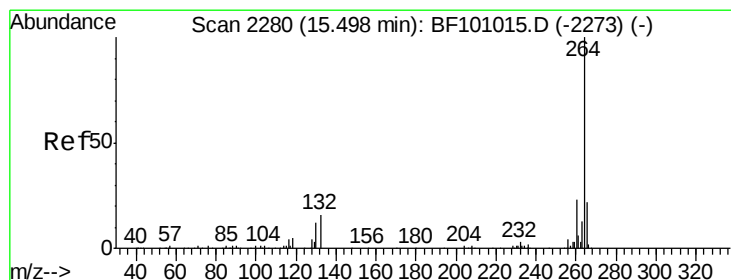
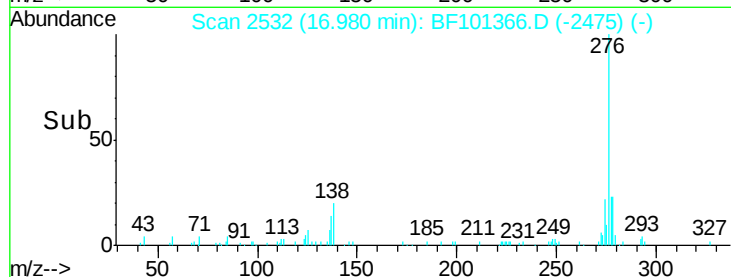
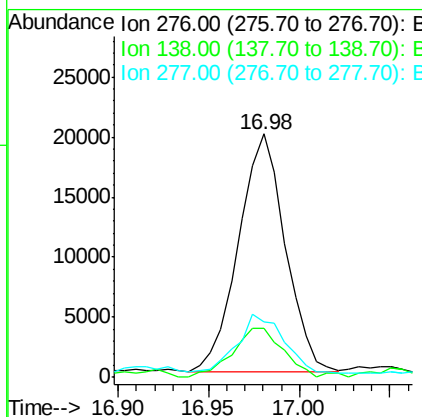
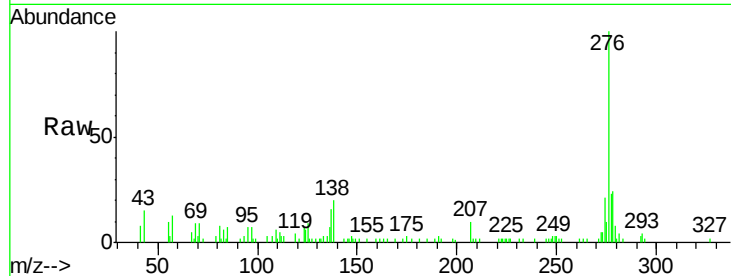
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.316 ng
RT: 16.98 min Scan# 2532
Delta R.T. 0.04 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	22.6	25.0	37.6#	
277	24.5	20.1	30.1	

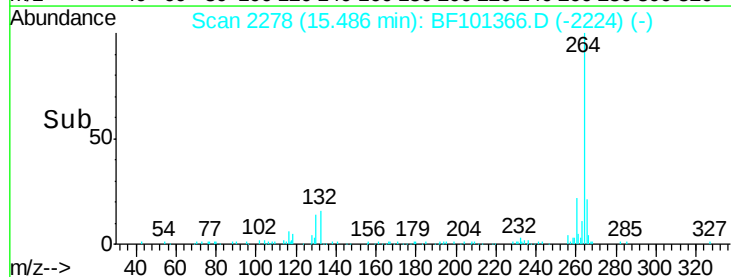
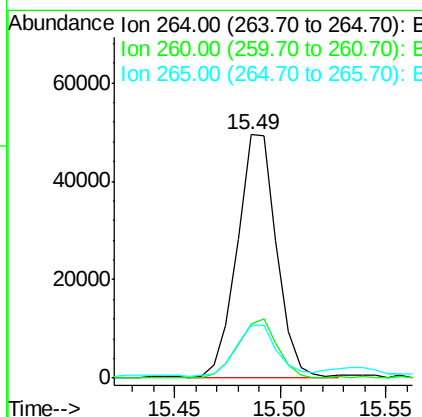
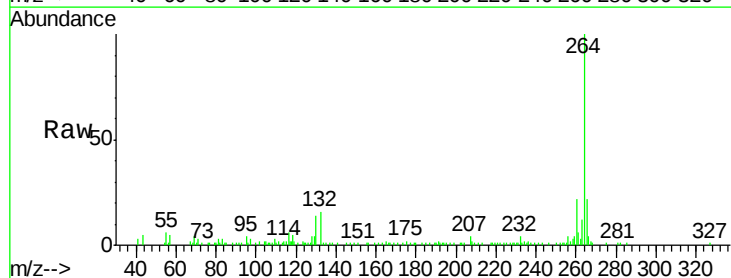
Manual Integrations
APPROVED

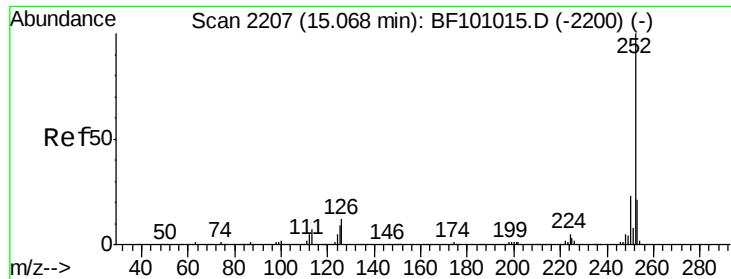
Sohil
12/13/2017 2:08:04 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	22.5	19.2	28.8	
265	21.8	17.5	26.3	





#87

Benzo(b)fluoranthene

Concen: 25.832 ng m

RT: 15.06 min Scan# 2205

Delta R.T. 0.02 min

Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Instrument :

BNA_F

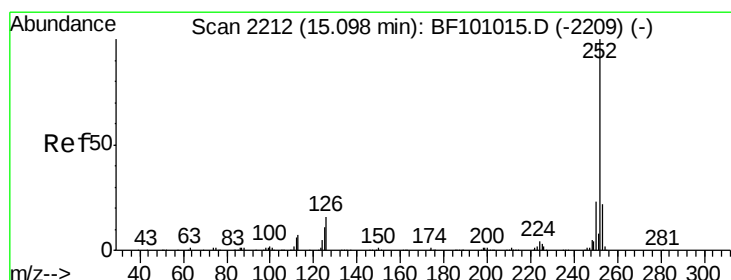
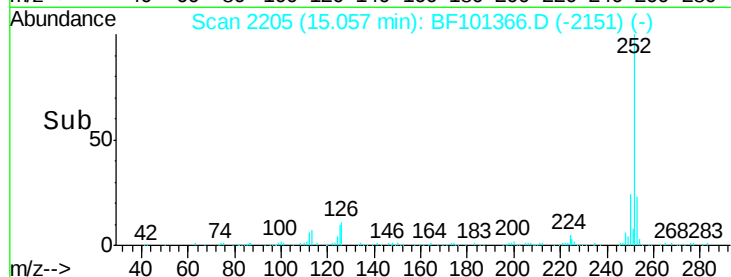
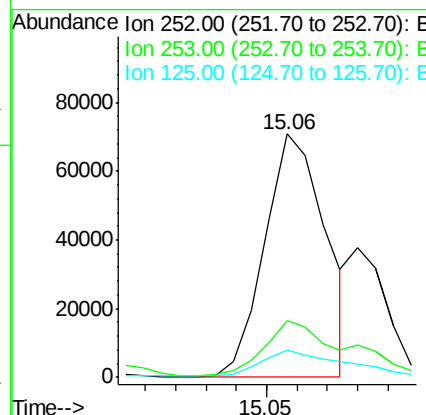
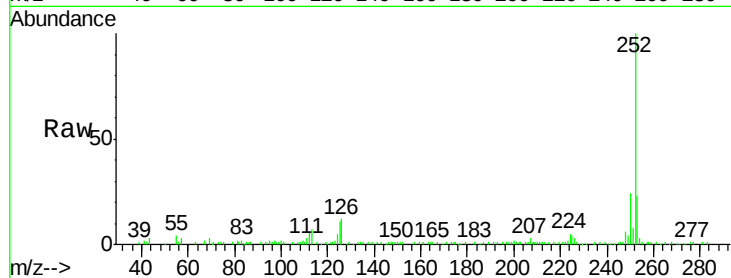
ClientSampleId :

SU-03-121117-ADL

Tot Ion:	252	Resp:	99649
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.6
125	11.1	9.0	13.6

Manual Integrations
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12/13/2017 2:08:04 PM



#88

Benzo(k)fluoranthene

Concen: 8.560 ng m

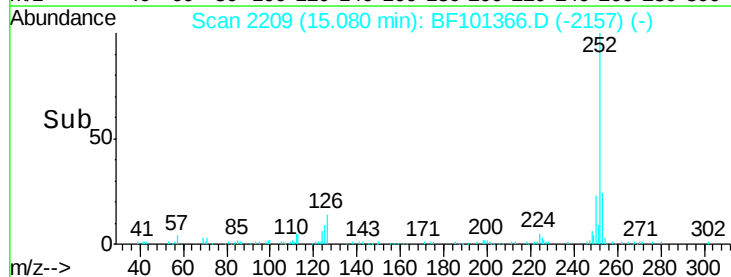
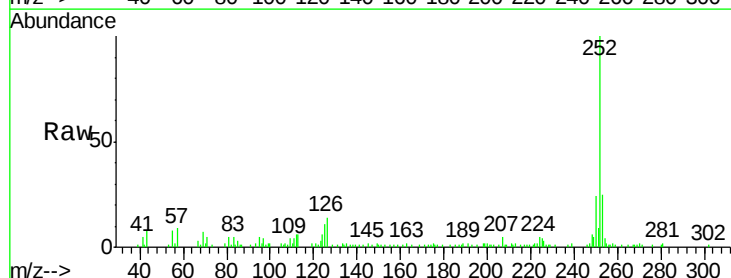
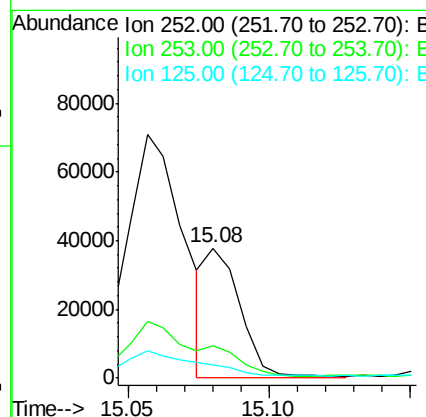
RT: 15.08 min Scan# 2209

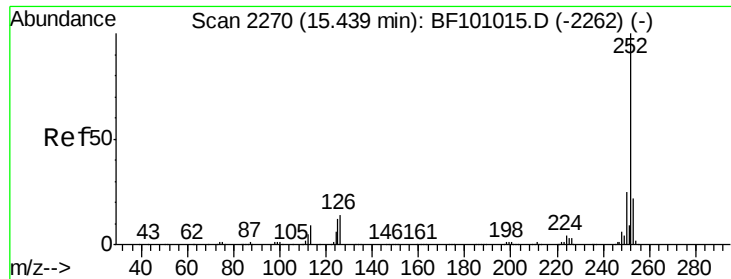
Delta R.T. 0.01 min

Lab File: BF101366.D

Acq: 13 Dec 2017 9:05

Tgt Ion:	252	Resp:	32532
Ion Ratio	Lower	Upper	
252	100		
253	24.9	17.9	26.9
125	10.5	10.2	15.2





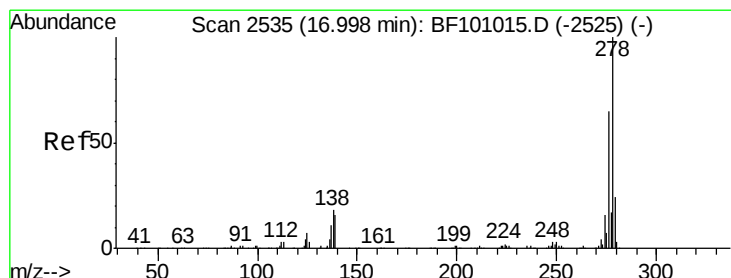
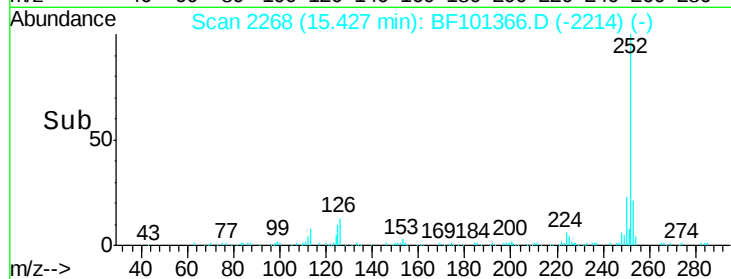
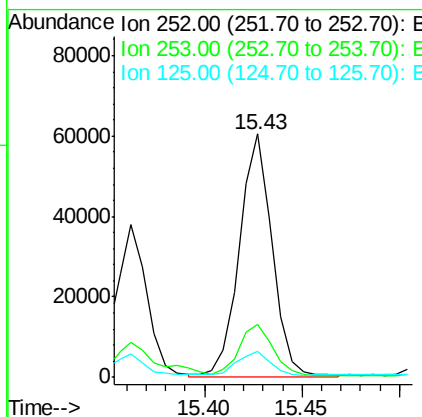
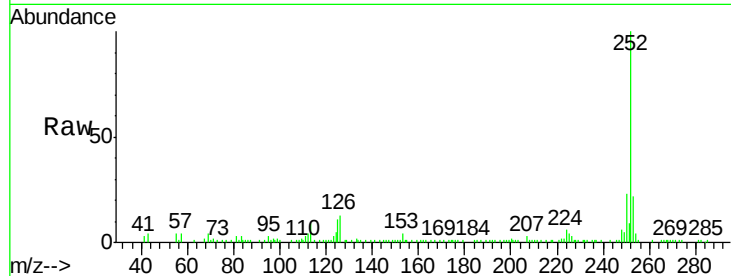
#89
Benzo(a)pyrene
Concen: 20.245 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.02 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7
125	10.9	9.8	14.6

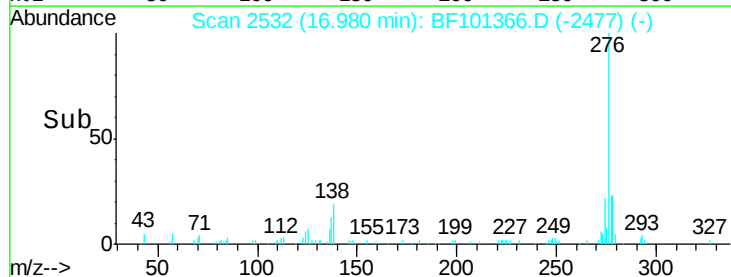
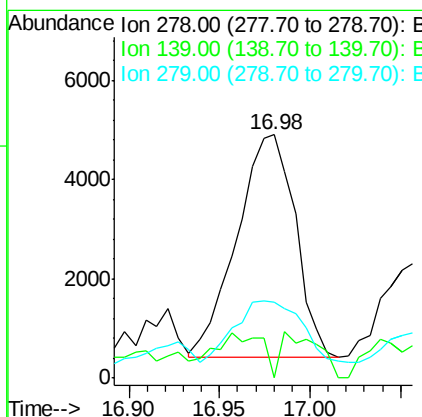
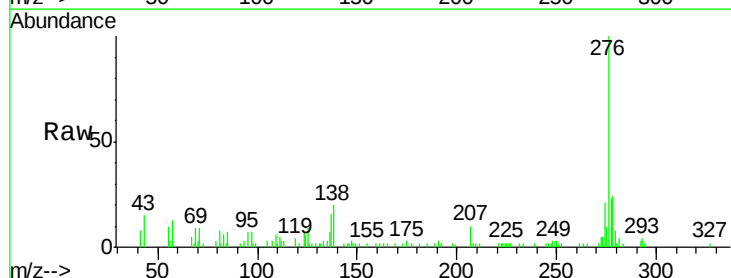
Manual Integrations
APPROVED

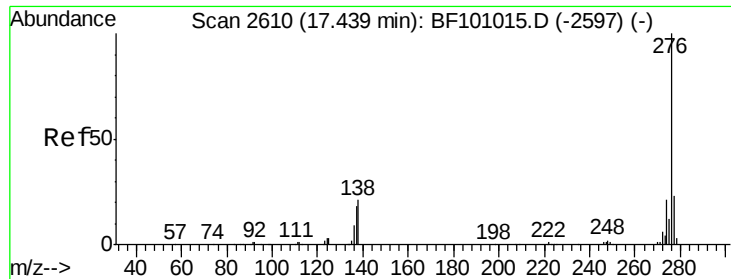
Sohil
12/13/2017 2:08:04 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.242 ng
RT: 16.98 min Scan# 2532
Delta R.T. 0.02 min
Lab File: BF101366.D
Acq: 13 Dec 2017 9:05

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	31.4	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 12.293 ng
 RT: 17.43 min Scan# 2609
 Delta R.T. 0.04 min
 Lab File: BF101366.D
 Acq: 13 Dec 2017 9:05

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.3	17.9	26.9
138	24.4	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/13/2017 2:08:04 PM

