

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
 Data File : BF100631.D
 Acq On : 16 Nov 2017 15:31
 Operator : SJ/JU
 Sample : I6302-03 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-B

Manual Integrations
 APPROVED

SOHIL
 11/17/2017 1:24:51 PM

Quant Time: Nov 16 16:35:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 16 11:34:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	103271	20.00	ng	-0.02
21) Naphthalene-d8	8.16	136	394949	20.00	ng	-0.02
38) Acenaphthene-d10	9.92	164	172061	20.00	ng	-0.02
63) Phenanthrene-d10	11.40	188	279138	20.00	ng	-0.02
75) Chrysene-d12	14.04	240	220501	20.00	ng	-0.03
86) Perylene-d12	15.52	264	257334	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	110088	17.09	ng	-0.02
7) Phenol-d6	6.49	99	167882	21.13	ng	-0.03
23) Nitrobenzene-d5	7.44	82	95900	16.05	ng	-0.03
41) 2,4,6-Tribromophenol	10.70	330	27899	15.91	ng	-0.03
44) 2-Fluorobiphenyl	9.23	172	208979	18.49	ng	-0.03
78) Terphenyl-d14	12.98	244	134914	14.06	ng	-0.03
Target Compounds						
48) Acenaphthylene	9.77	152	44078	2.464	ng	99
70) Phenanthrene	11.42	178	86761	5.903	ng	97
71) Anthracene	11.47	178	40047	2.686	ng	97
74) Fluoranthene	12.62	202	183683	11.793	ng	95
77) Pyrene	12.85	202	225482	14.345	ng	98
80) Benzo(a)anthracene	14.03	228	121020	9.114	ng	93
82) Chrysene	14.06	228	101885	7.924	ng	97
85) Indeno(1,2,3-cd)pyrene	16.99	276	74482	7.161	ng	# 91
87) Benzo(b)fluoranthene	15.08	252	167982m	11.018	ng	
88) Benzo(k)fluoranthene	15.10	252	54731m	3.799	ng	
89) Benzo(a)pyrene	15.45	252	133119	9.849	ng	98
90) Dibenzo(a,h)anthracene	17.00	278	22494m	2.035	ng	
91) Benzo(a,h,i)perylene	17.44	276	71475	6.606	ng	95

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

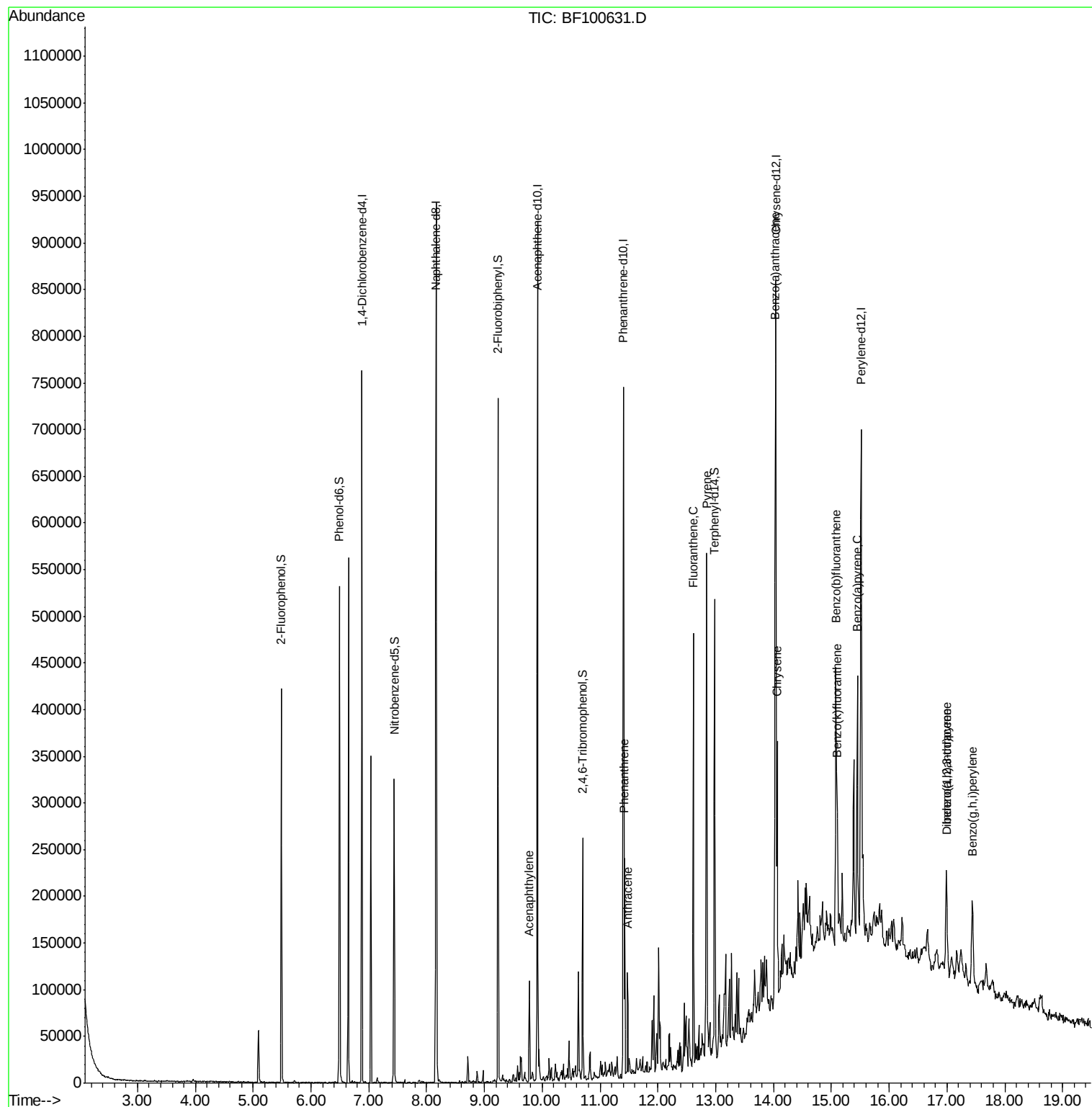
Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
Data File : BF100631.D
Acq On : 16 Nov 2017 15:31
Operator : SJ/JU
Sample : I6302-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

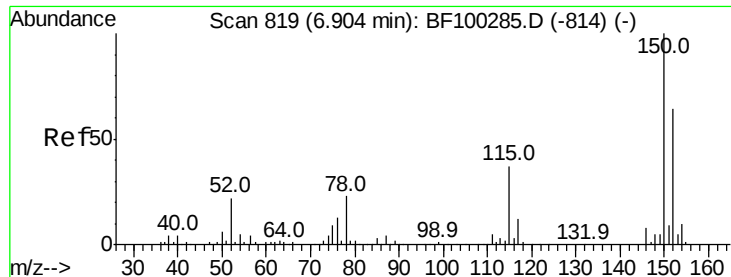
Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Quant Time: Nov 16 16:35:55 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 16 11:34:03 2017
Response via : Initial Calibration

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:24:51 PM





#1

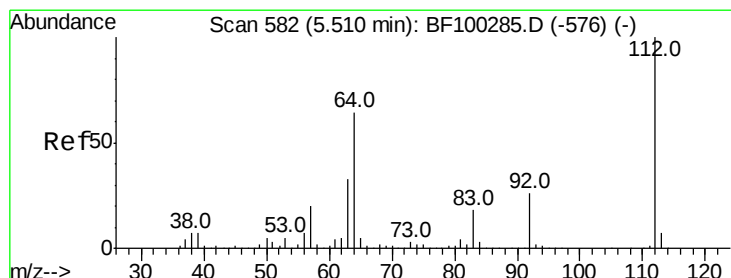
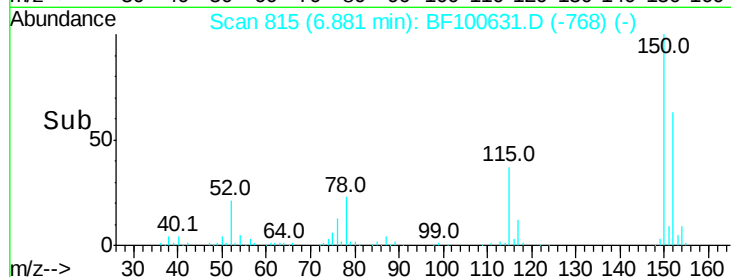
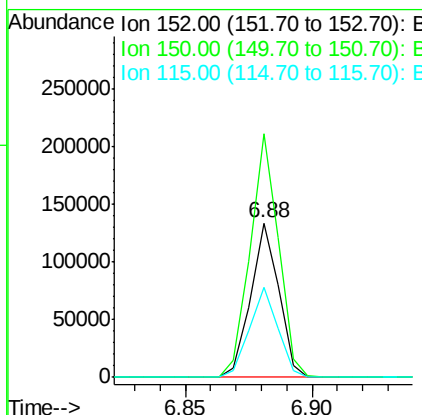
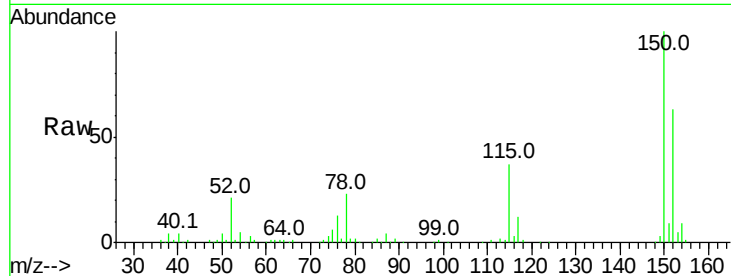
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.02 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.1	124.6	186.8
115	58.6	50.1	75.1

Manual Integrations
APPROVED

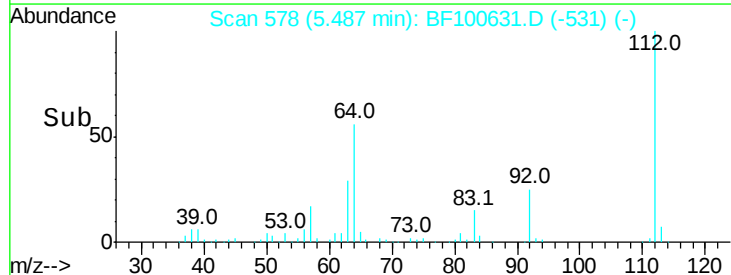
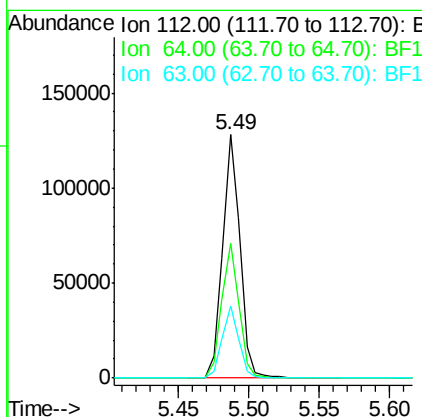
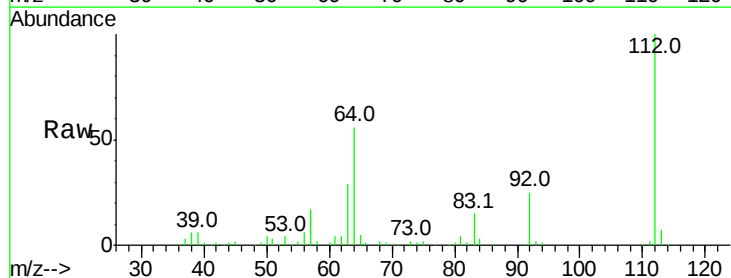
SOHIL
11/17/2017 1:24:51 PM

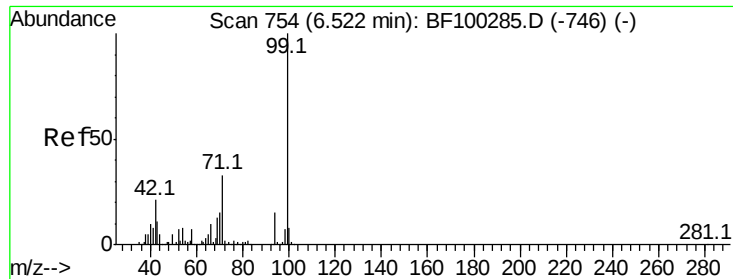


#5

2-Fluorophenol
Concen: 17.088 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.02 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	47.9	71.9
63	29.4	23.7	35.5





#7

Phenol-d6

Concen: 21.132 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.03 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Instrument :

BNA_F

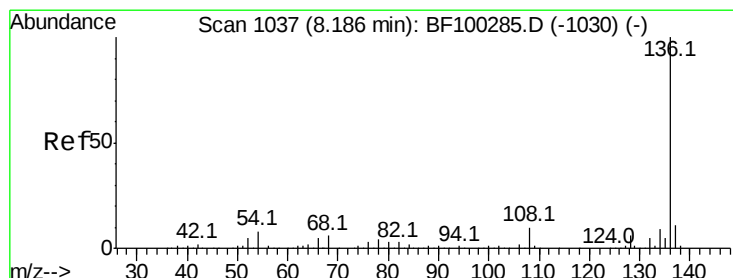
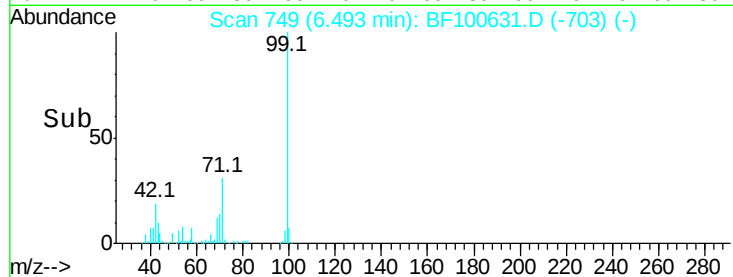
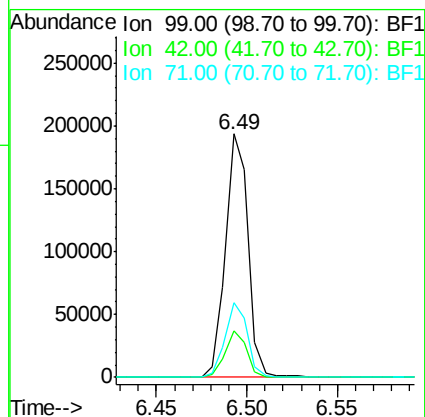
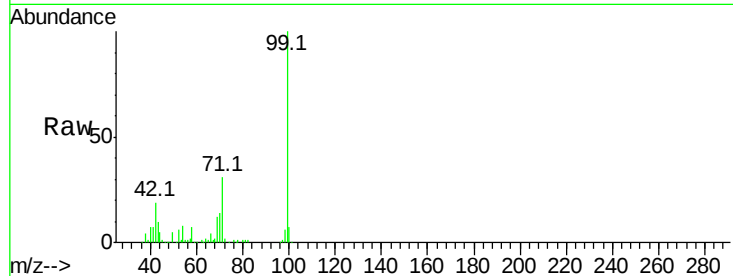
ClientSampleId :

HR-04-111317-B

Tot Ion:	99	Resp:	167882
Ion	Ratio	Lower	Upper
99	100		
42	19.1	14.5	21.7
71	30.8	25.4	38.0

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:24:51 PM



#21

Naphthalene-d8

Concen: 20.000 ng

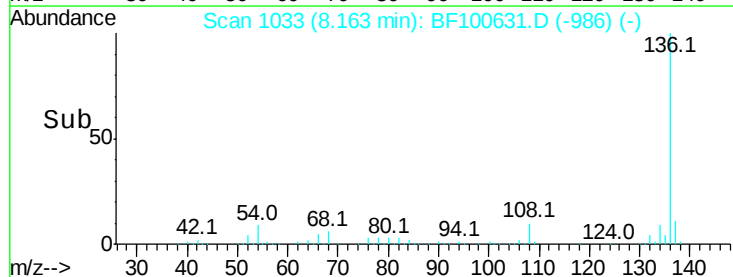
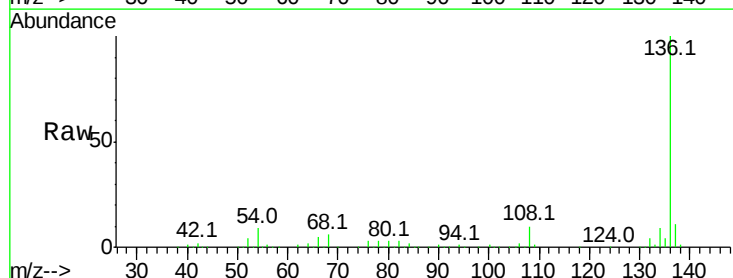
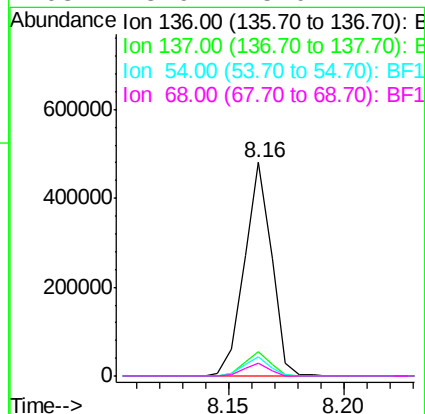
RT: 8.16 min Scan# 1033

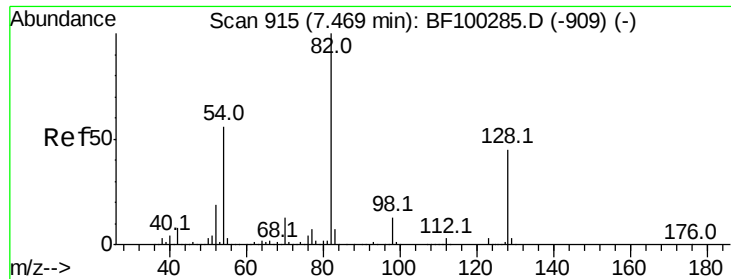
Delta R.T. -0.02 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Tgt Ion:	136	Resp:	394949
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.7	6.6	9.8
68	5.9	5.0	7.4





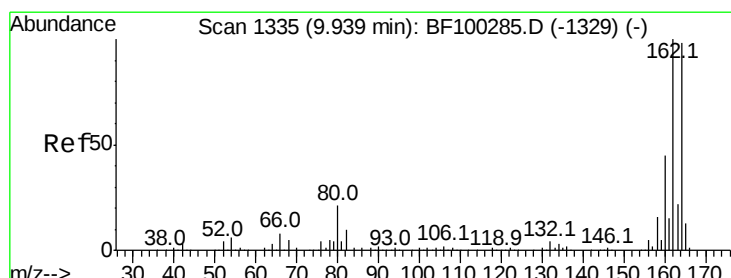
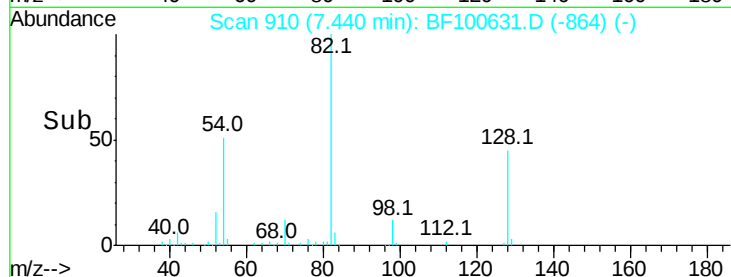
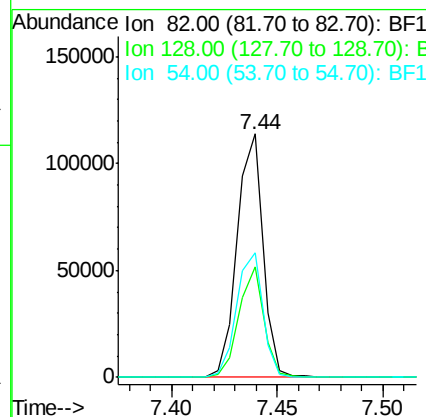
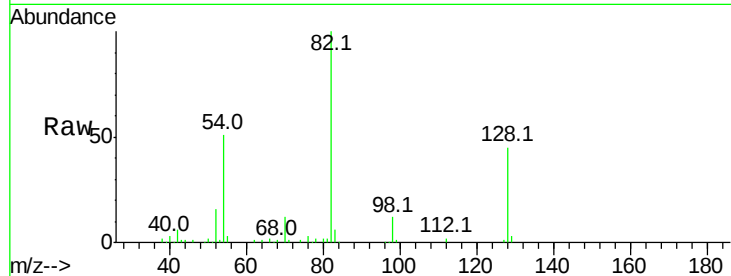
#23
Nitrobenzene-d5
Concen: 16.053 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.03 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.1	54.1
54	50.9	41.4	62.2

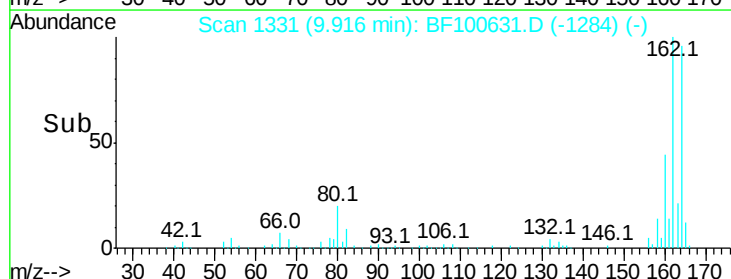
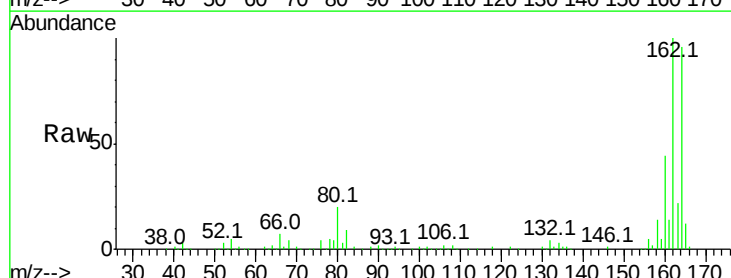
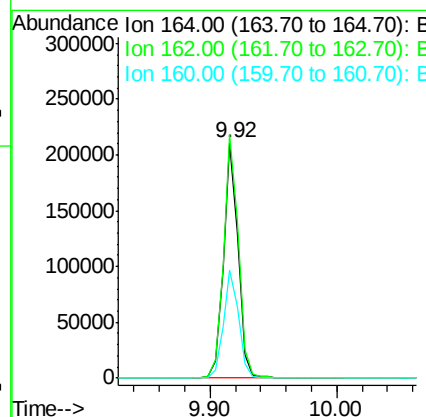
Manual Integrations
APPROVED

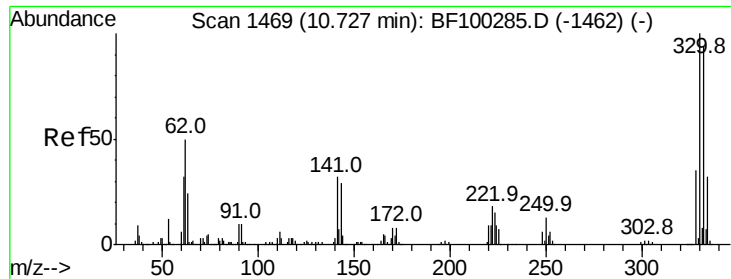
SOHIL
11/17/2017 1:24:51 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	86.1	129.1
160	45.9	38.3	57.5





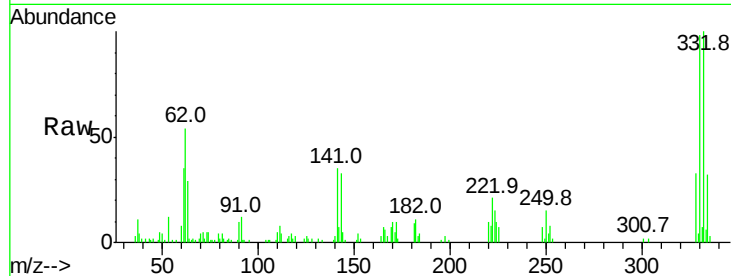
#41
 2,4,6-Tribromophenol
 Concen: 15.912 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.03 min
 Lab File: BF100631.D
 Acq: 16 Nov 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-B

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.0	77.0	115.6	
141	32.0	29.9	44.9	

Manual Integrations
 APPROVED

SOHIL
 11/17/2017 1:24:51 PM

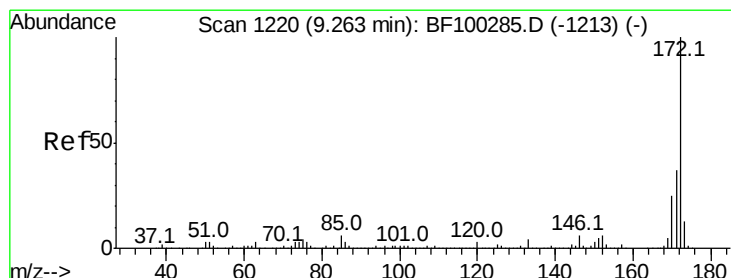
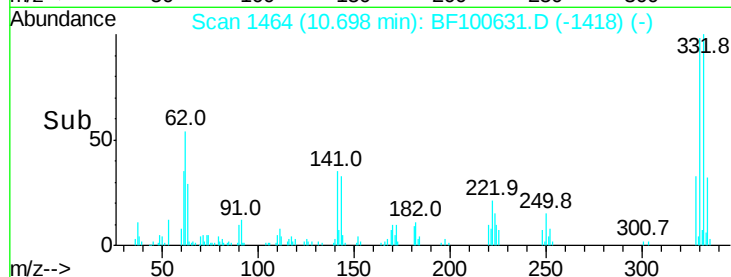
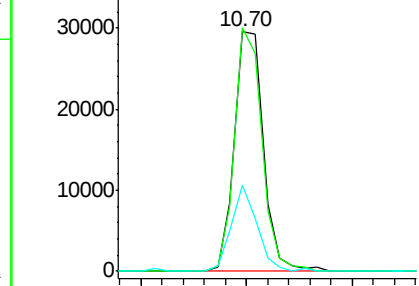


Abundance

Ion 329.80 (329.50 to 330.50): E

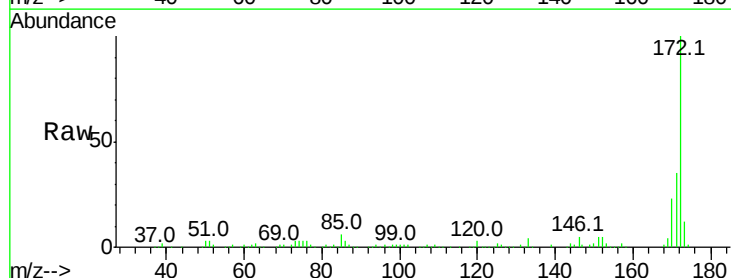
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 18.494 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.03 min
 Lab File: BF100631.D
 Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.2	29.7	44.5	
170	22.8	19.6	29.4	

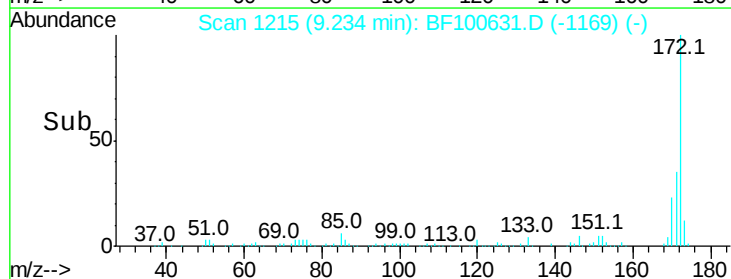
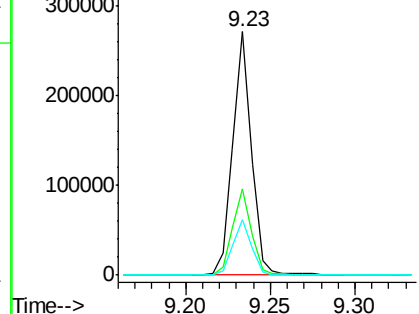


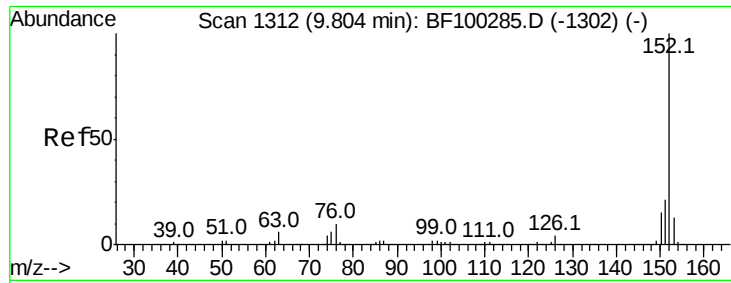
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.464 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.03 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Instrument :

BNA_F

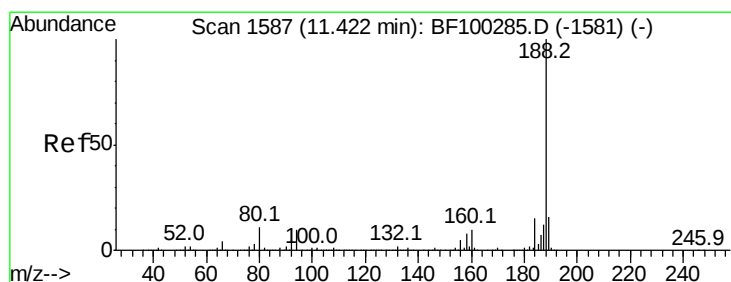
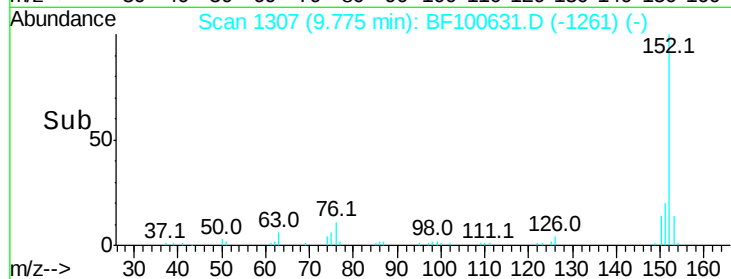
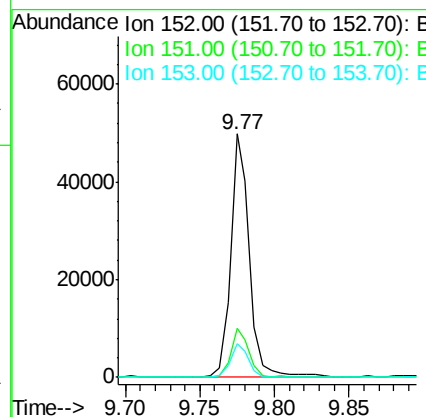
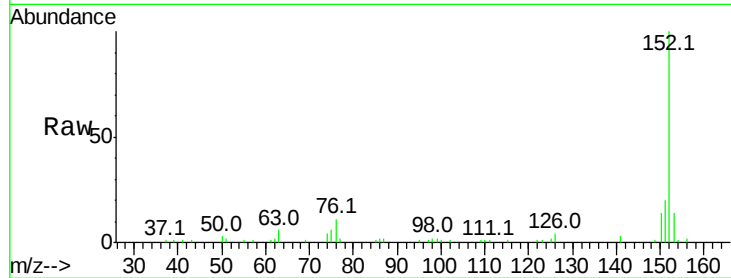
ClientSampleId :

HR-04-111317-B

Tot Ion:	152	Resp:	44078
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.3	24.5
153	13.9	10.7	16.1

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:24:51 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

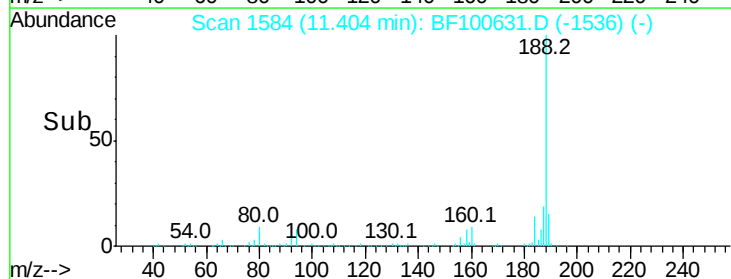
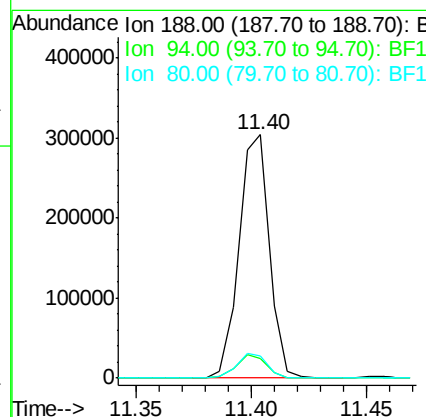
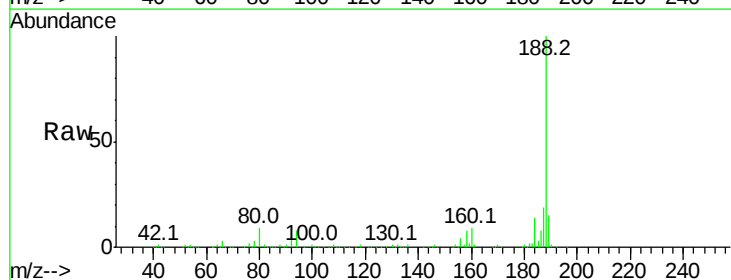
RT: 11.40 min Scan# 1584

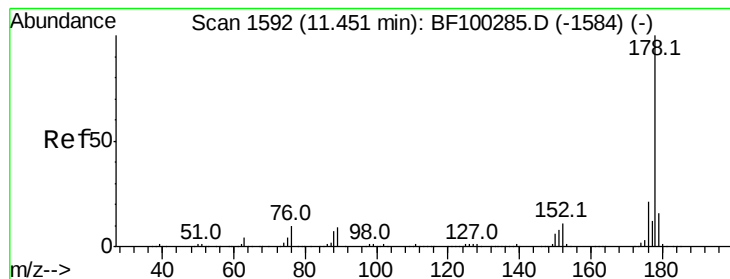
Delta R.T. -0.02 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Tgt Ion:	188	Resp:	279138
Ion Ratio	Lower	Upper	
188	100		
94	8.2	8.5	12.7#
80	8.9	9.2	13.8#





#70

Phenanthrene

Concen: 5.903 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.03 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Instrument :

BNA_F

ClientSampleId :

HR-04-111317-B

Tot Ion:178 Resp: 86761

Ion Ratio Lower Upper

178 100

176 18.0 15.8 23.8

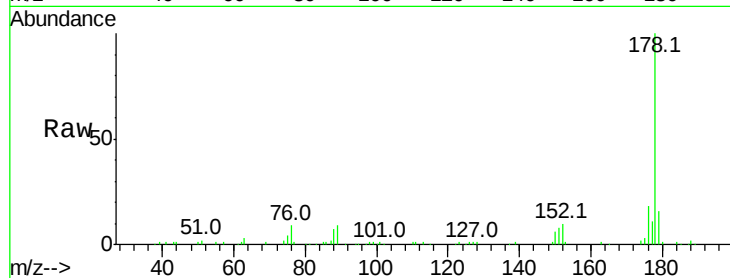
179 15.6 13.0 19.6

Manual Integrations

APPROVED

SOHIL

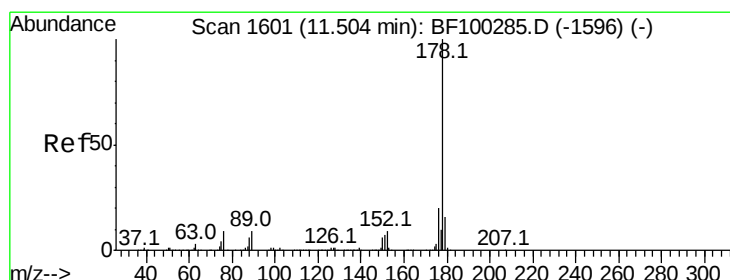
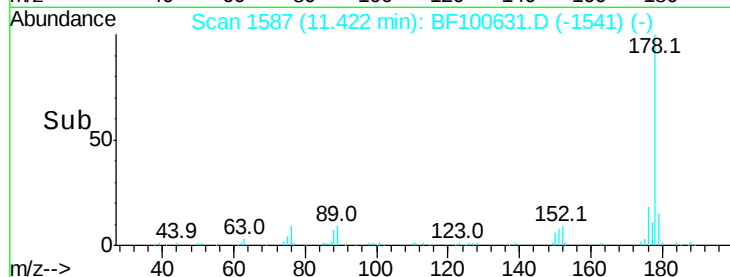
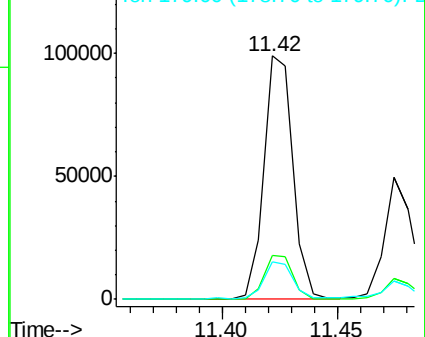
11/17/2017 1:24:51 PM



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: 2.686 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.03 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

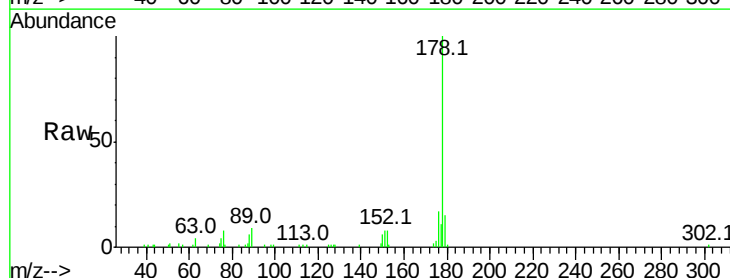
Tgt Ion:178 Resp: 40047

Ion Ratio Lower Upper

178 100

176 17.0 15.4 23.2

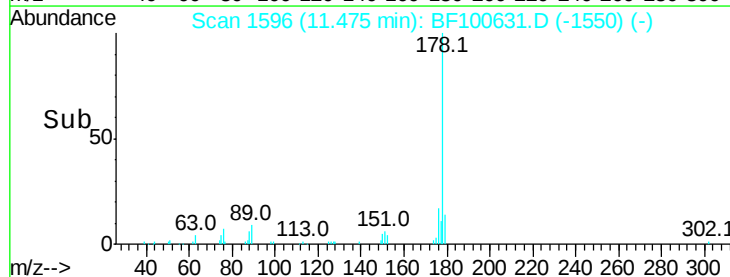
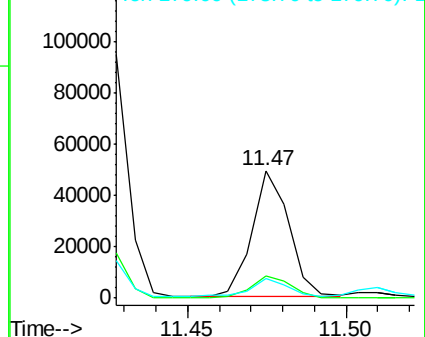
179 15.3 12.6 19.0

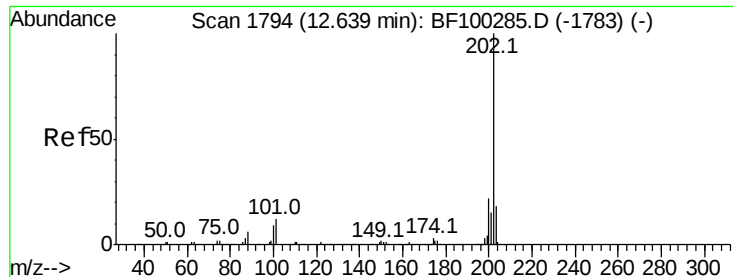


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 11.793 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Instrument :

BNA_F

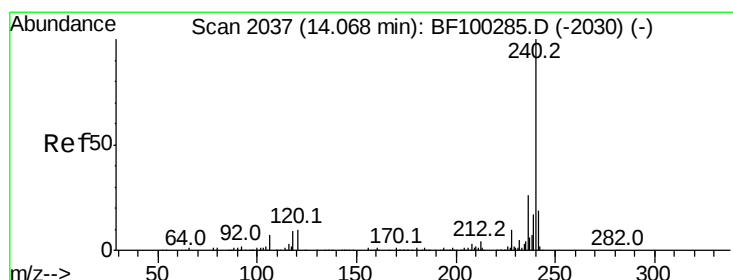
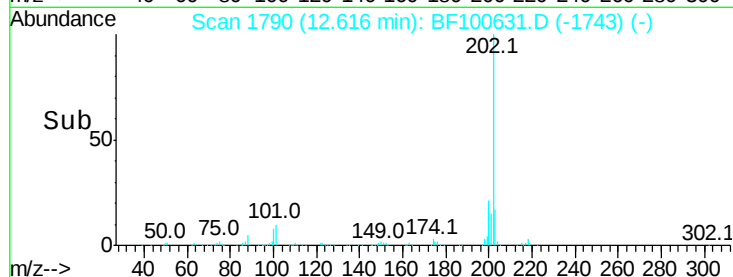
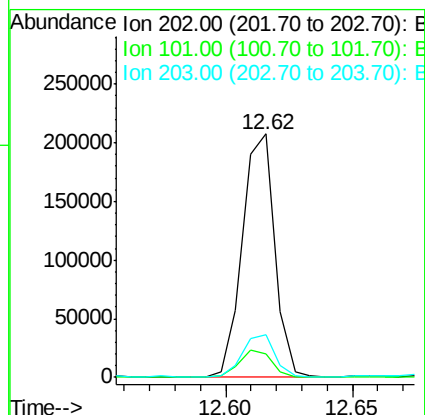
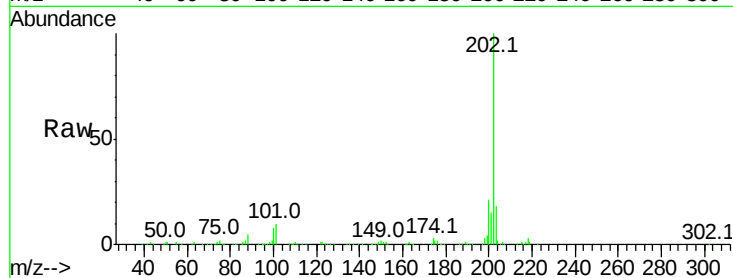
ClientSampleId :

HR-04-111317-B

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.8	0.0	34.1
203	17.5	0.0	38.1

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:24:51 PM



#75

Chrysene-d12

Concen: 20.000 ng

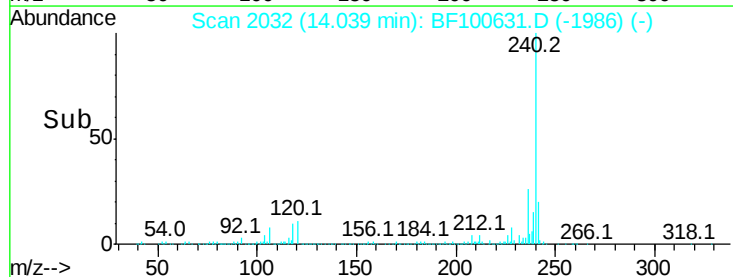
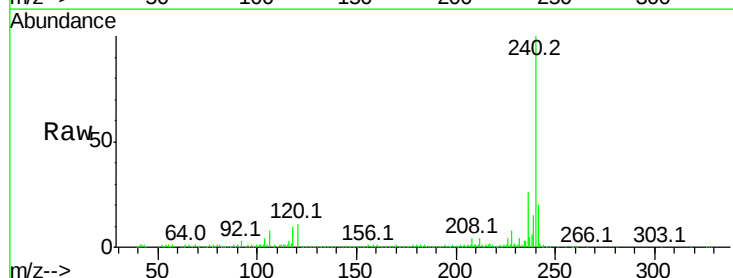
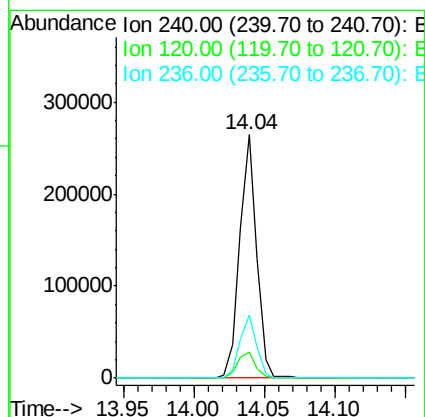
RT: 14.04 min Scan# 2032

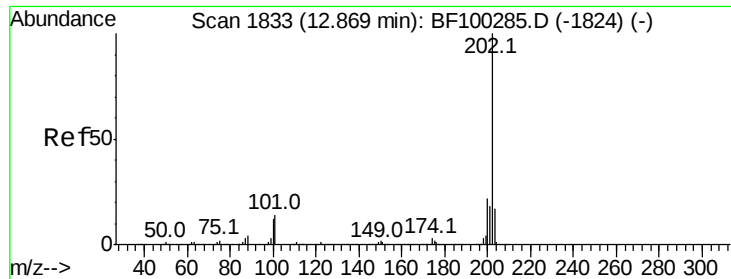
Delta R.T. -0.03 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.9	9.5	14.3
236	25.7	20.7	31.1





#77

Pvrene

Concen: 14.345 ng

RT: 12.85 min Scan# 1829

Delta R.T. -0.02 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Instrument :

BNA_F

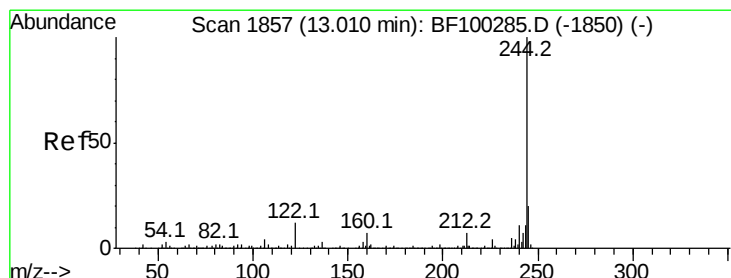
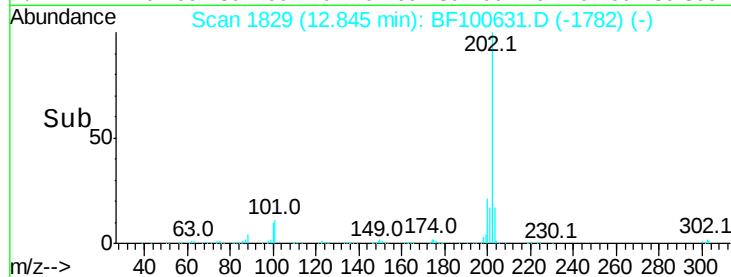
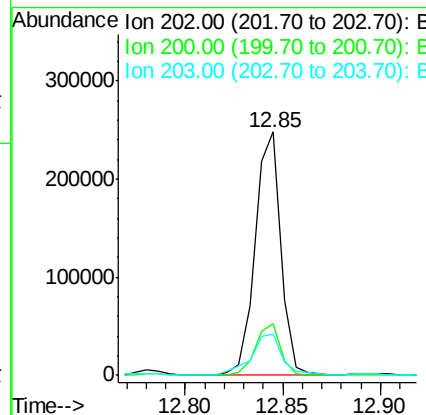
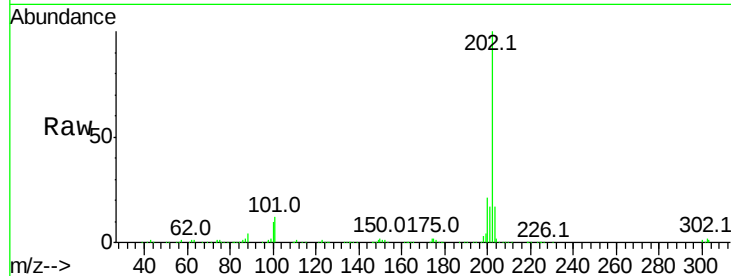
ClientSampleId :

HR-04-111317-B

Tot Ion:	202	Resp:	225482
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	17.1	14.3	21.5

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:24:51 PM



#78

Terphenyl-d14

Concen: 14.059 ng

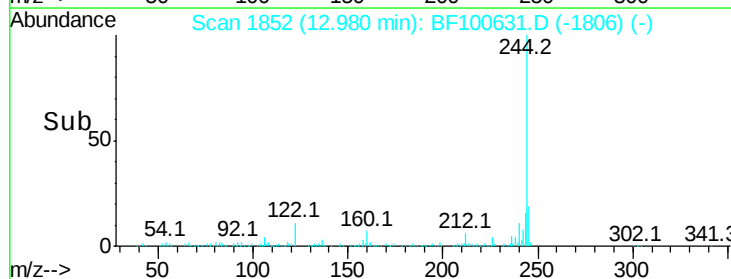
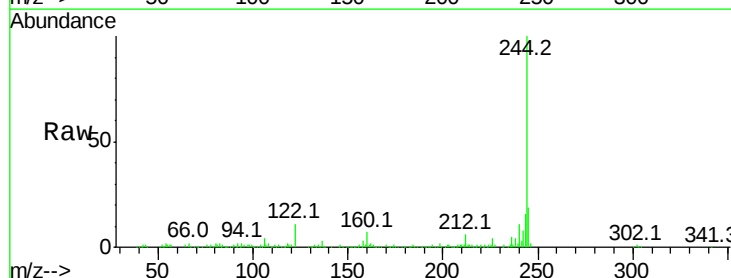
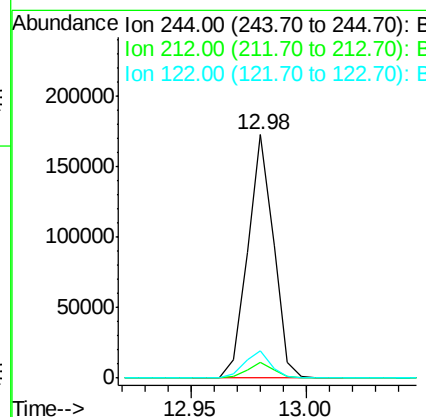
RT: 12.98 min Scan# 1852

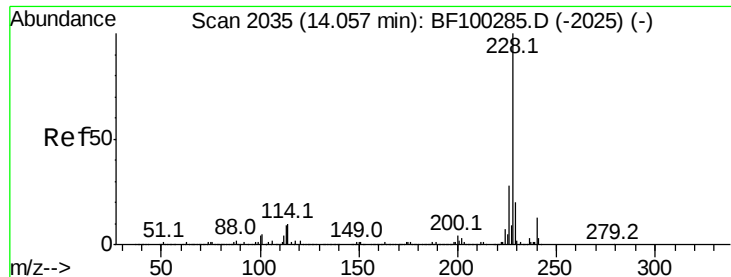
Delta R.T. -0.03 min

Lab File: BF100631.D

Acq: 16 Nov 2017 15:31

Tgt Ion:	244	Resp:	134914
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	11.0	11.0	16.4





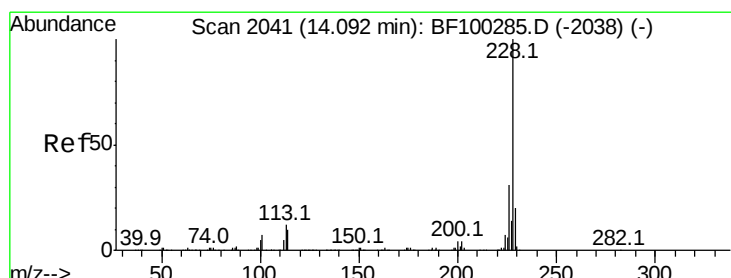
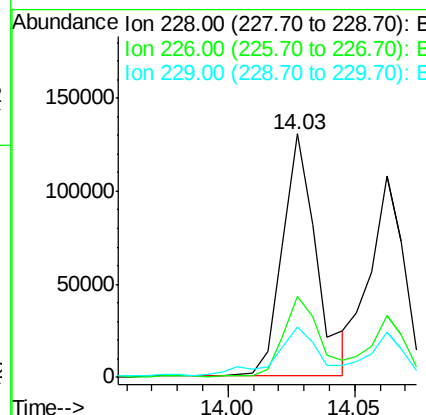
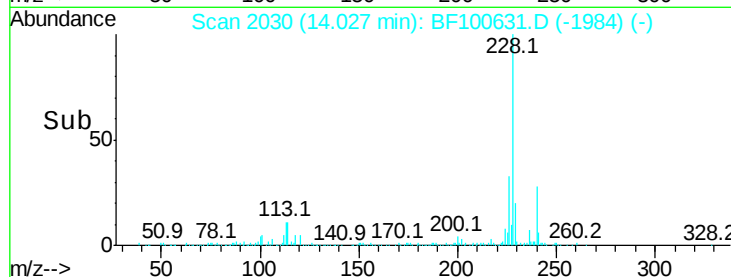
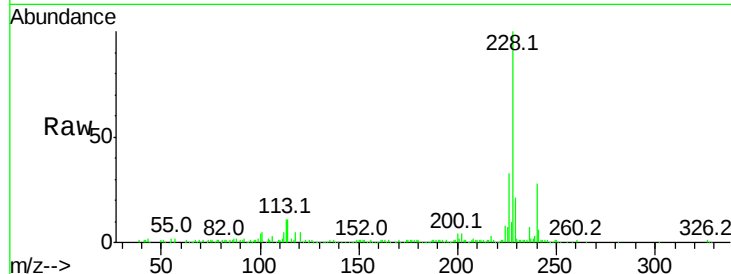
#80
Benzo(a)anthracene
Concen: 9.114 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.03 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.4	22.6	33.8
229	20.9	15.8	23.6

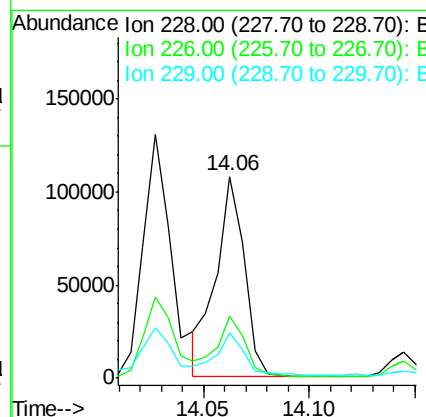
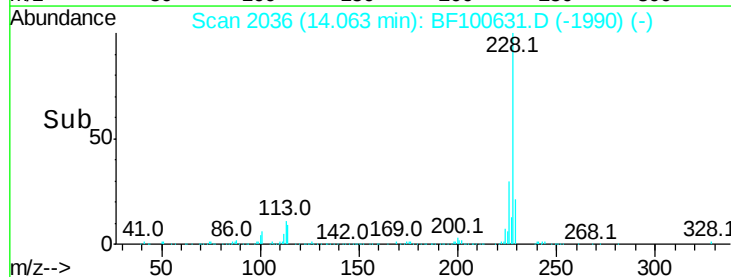
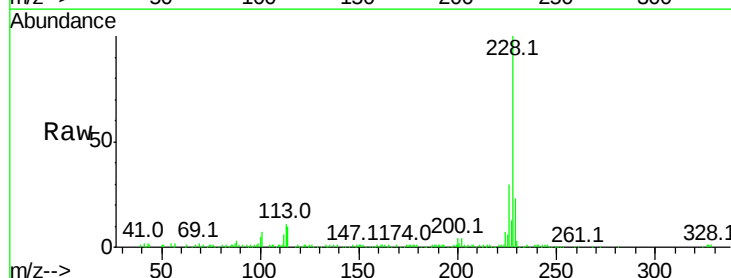
Manual Integrations
APPROVED

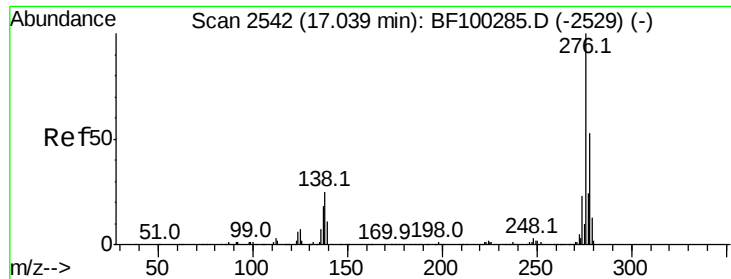
SOHIL
11/17/2017 1:24:51 PM



#82
Chrysene
Concen: 7.924 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.03 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	22.7	16.2	24.4





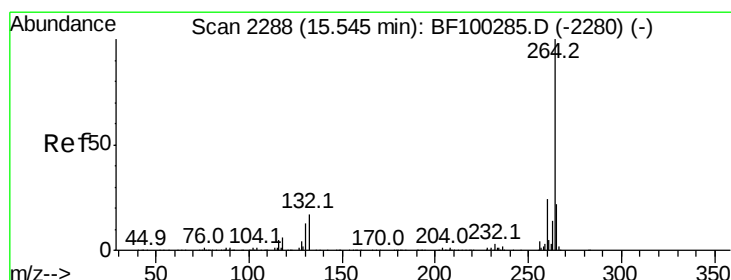
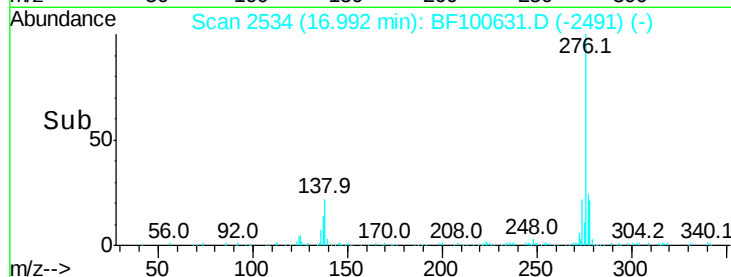
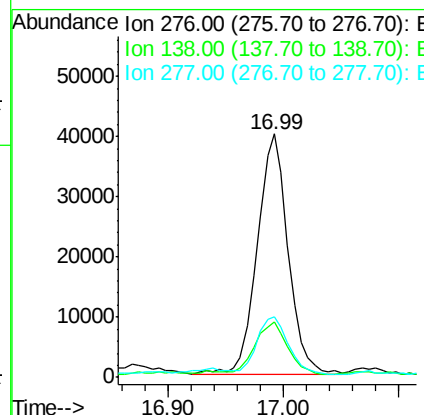
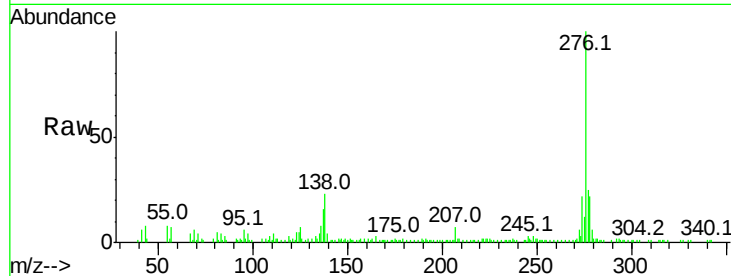
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.161 ng
RT: 16.99 min Scan# 2534
Delta R.T. -0.05 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.4	25.0	37.6#
277	24.2	20.1	30.1

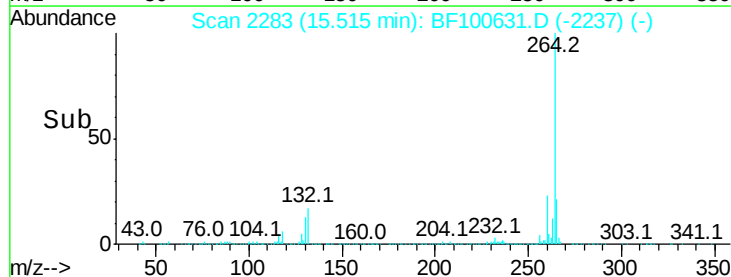
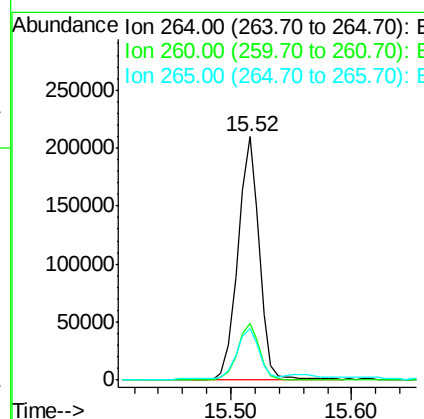
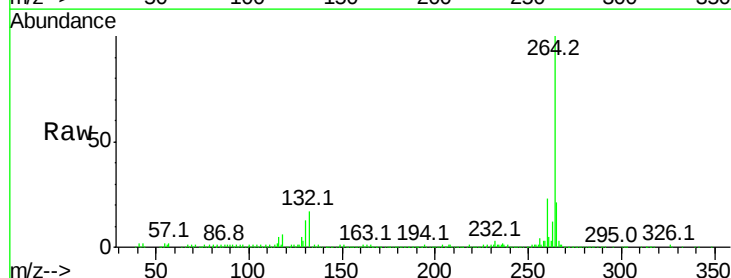
Manual Integrations
APPROVED

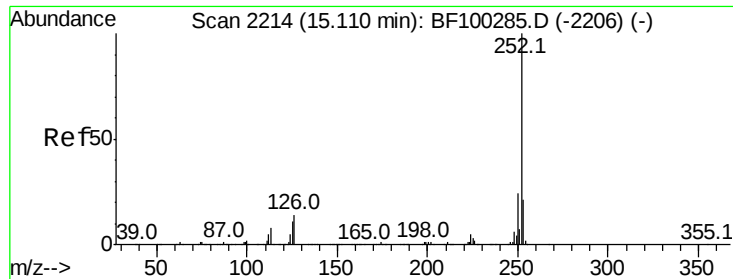
SOHIL
11/17/2017 1:24:51 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. -0.03 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.2	28.8
265	21.2	17.5	26.3





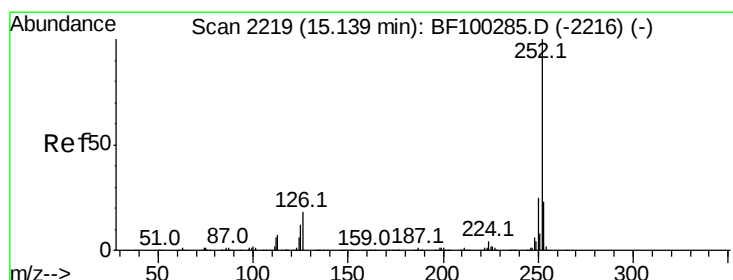
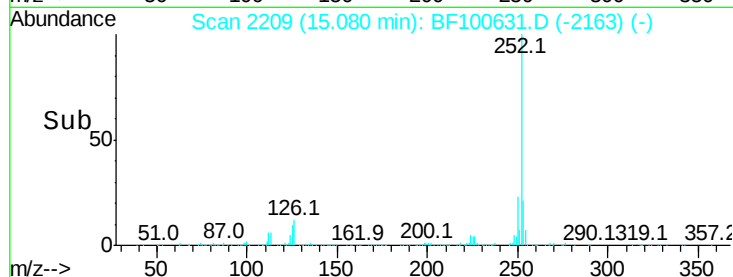
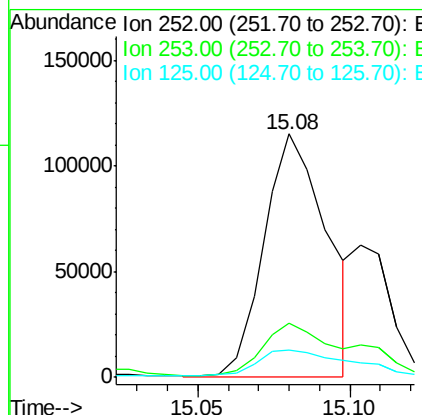
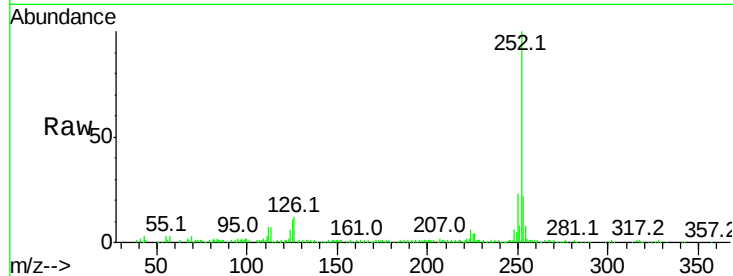
#87
Benzo(b)fluoranthene
Concen: 11.018 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.03 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	11.1	9.0	13.6

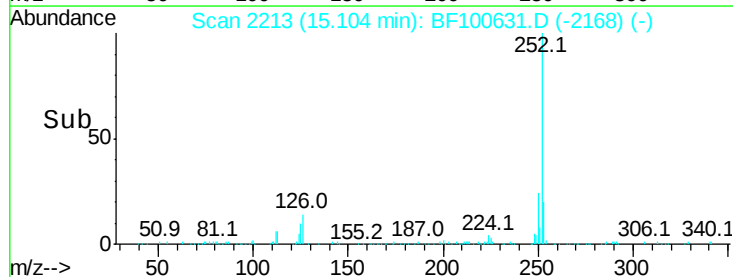
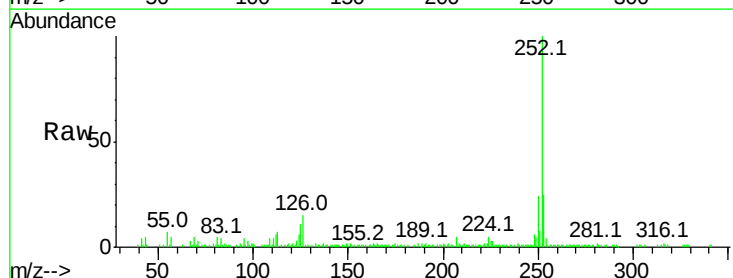
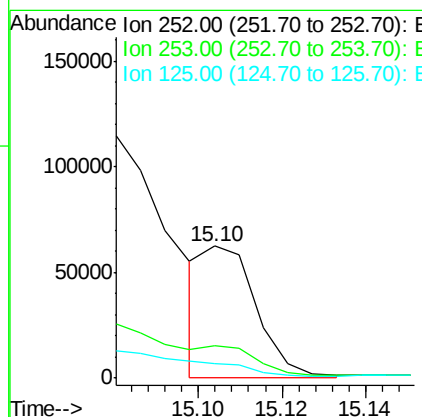
Manual Integrations
APPROVED

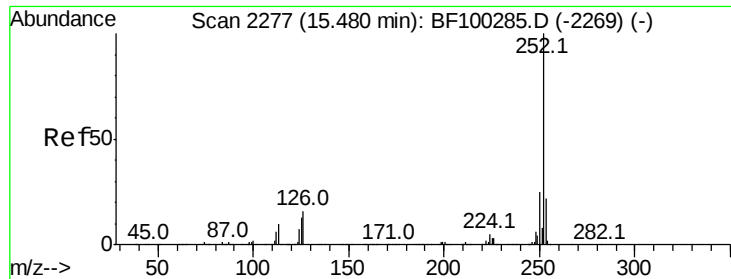
SOHIL
11/17/2017 1:24:51 PM



#88
Benzo(k)fluoranthene
Concen: 3.799 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.04 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	11.4	10.2	15.2





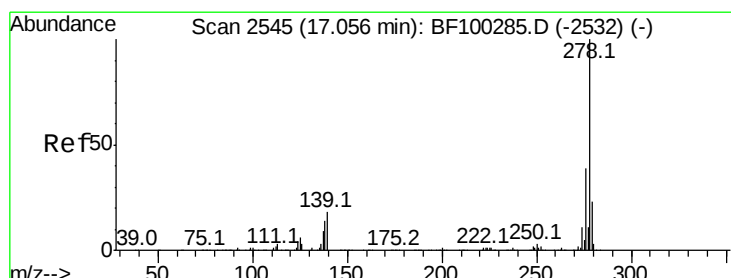
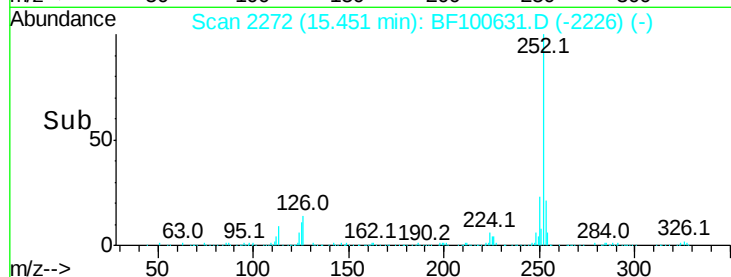
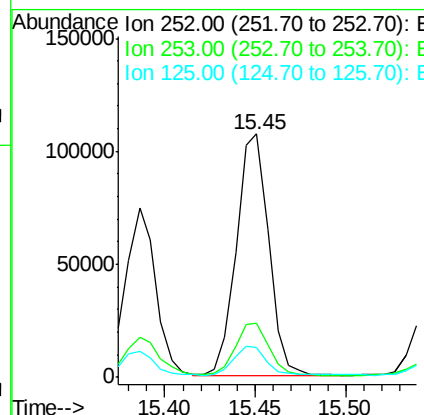
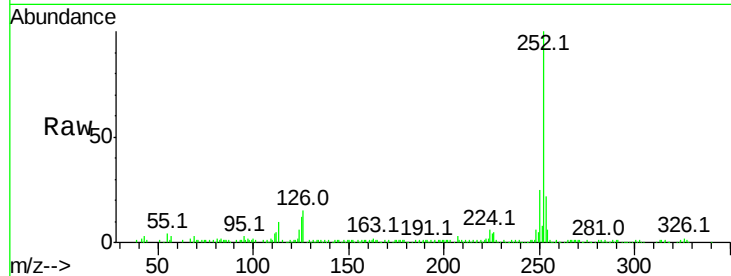
#89
Benzo(a)pyrene
Concen: 9.849 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.03 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-B

Tot Ion	Ratio	Resp	Lower	Upper
252	100	133119		
253	22.4		17.1	25.7
125	12.4		9.8	14.6

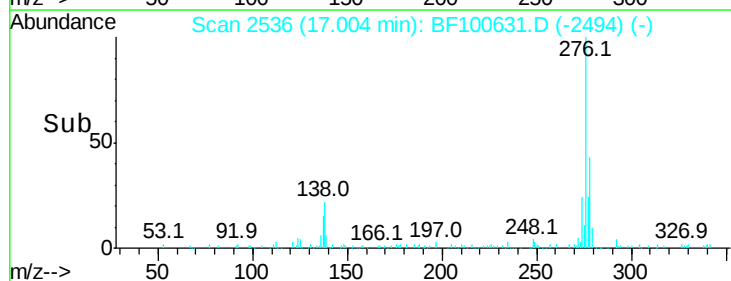
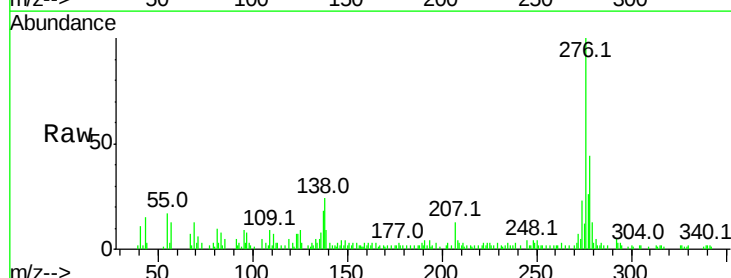
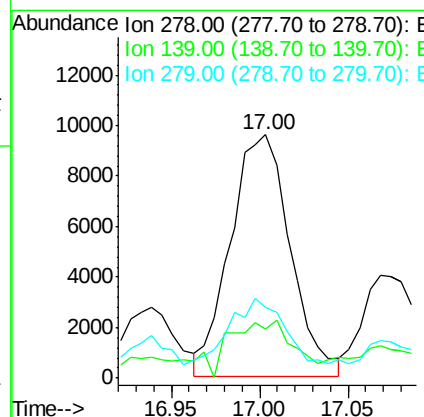
Manual Integrations
APPROVED

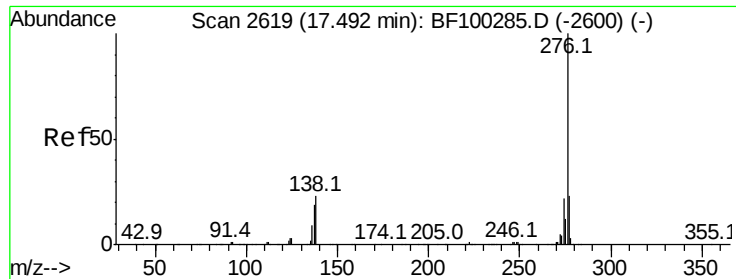
SOHIL
11/17/2017 1:24:51 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.035 ng m
RT: 17.00 min Scan# 2536
Delta R.T. -0.05 min
Lab File: BF100631.D
Acq: 16 Nov 2017 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	22494		
139	19.9		15.9	23.9
279	29.2		19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 6.606 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. -0.05 min
 Lab File: BF100631.D
 Acq: 16 Nov 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-B

Tot Ion:	276	Resp:	71475
Ion Ratio	Lower	Upper	
276	100		
277	23.8	17.9	26.9
138	23.6	21.8	32.8

Manual Integrations
 APPROVED

SOHIL
 11/17/2017 1:24:51 PM

