

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102817\
 Data File : BF099941.D
 Acq On : 29 Oct 2017 4:12
 Operator : SJ/JU
 Sample : I6078-05DL 25X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DW-2DL

Manual Integrations
 APPROVED

Sohil
 10/30/2017 6:20:45 PM

Quant Time: Oct 30 05:15:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 27 15:58:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	86868	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	342505	20.00	ng	-0.01
38) Acenaphthene-d10	9.82	164	138385	20.00	ng	-0.02
63) Phenanthrene-d10	11.32	188	195489	20.00	ng	-0.02
75) Chrysene-d12	13.96	240	151426	20.00	ng	-0.03
86) Perylene-d12	15.43	264	151236	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	12648	2.29	ng	0.04
7) Phenol-d6	6.46	99	22286	3.40	ng	0.02
23) Nitrobenzene-d5	7.37	82	12600	2.37	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	2899	2.30	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	31465	3.51	ng	-0.02
78) Terphenyl-d14	12.89	244	17514	2.53	ng	-0.03
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.78	142	41765	3.770	ng	96
51) Acenaphthene	9.86	154	51524	6.022	ng	99
54) Dibenzofuran	10.03	168	56464	4.675	ng	94
57) Fluorene	10.37	166	66905	6.691	ng	99
70) Phenanthrene	11.34	178	391271	35.466	ng	99
71) Anthracene	11.39	178	97450	8.702	ng	99
72) Carbazole	11.56	167	21081	2.002	ng	98
74) Fluoranthene	12.53	202	342394	29.864	ng	96
77) Pyrene	12.76	202	267354	23.219	ng	98
80) Benzo(a)anthracene	13.95	228	98820	10.294	ng	99
82) Chrysene	13.99	228	98455	10.910	ng	98
83) Bis(2-ethylhexyl)phthalate	13.92	149	17640	2.215	ng	97
85) Indeno(1,2,3-cd)pyrene	16.90	276	39199	4.731	ng	99
87) Benzo(b)fluoranthene	15.00	252	126115m	13.206	ng	
88) Benzo(k)fluoranthene	15.03	252	38657m	4.293	ng	
89) Benzo(a)pyrene	15.37	252	75496	8.801	ng	# 97
91) Benzo(a,h,i)perylene	17.35	276	34581	4.637	ng	93

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

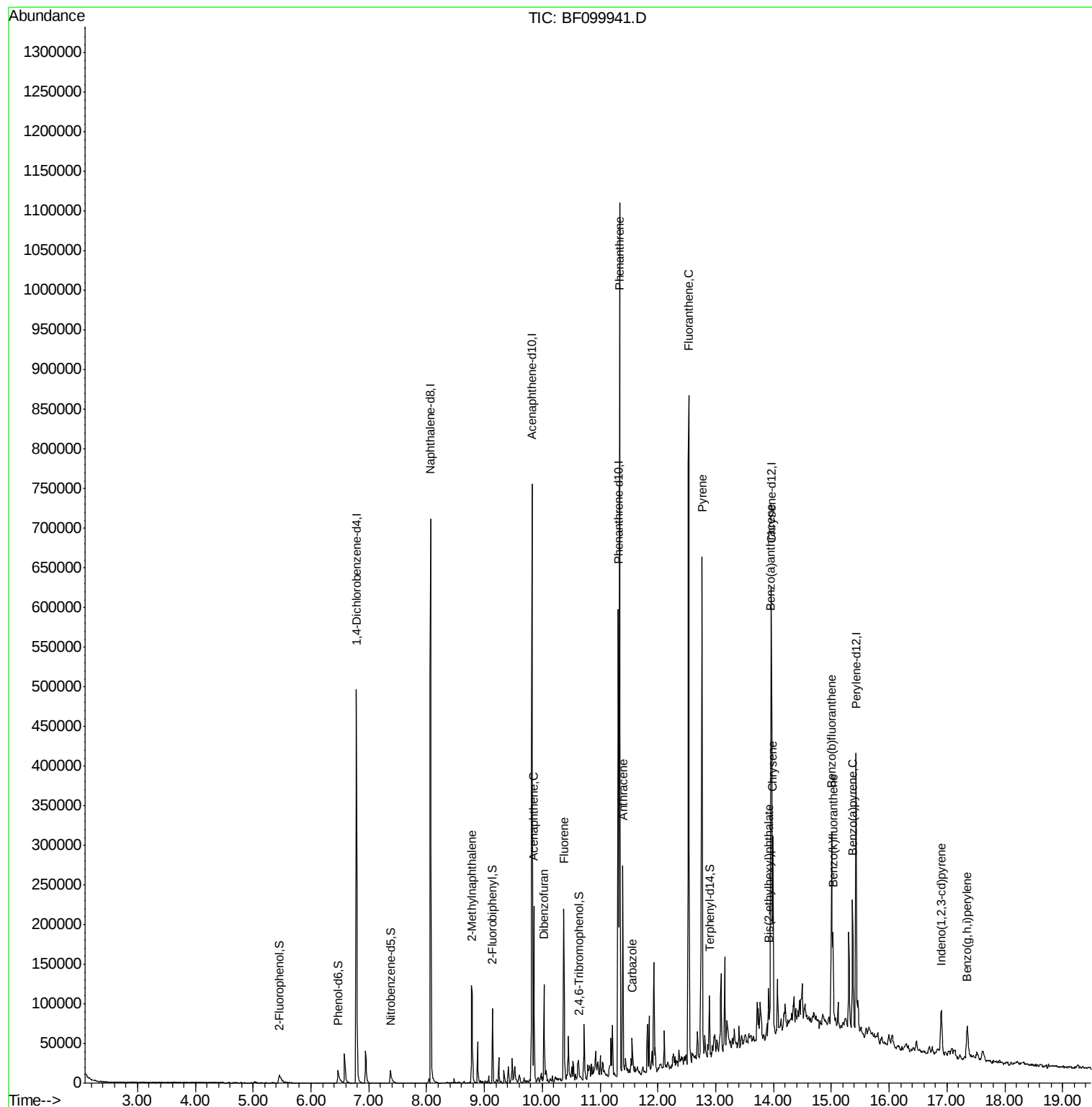
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102817\
Data File : BF099941.D
Acq On : 29 Oct 2017 4:12
Operator : SJ/JU
Sample : I6078-05DL 25X
Misc :
ALS Vial : 31 Sample Multiplier: 1

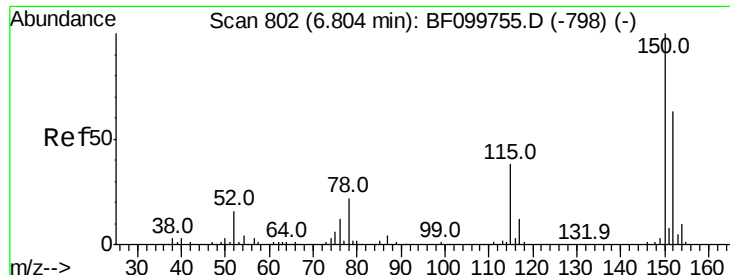
Instrument :
BNA_F
ClientSampleId :
DW-2DL

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM

Quant Time: Oct 30 05:15:17 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 27 15:58:57 2017
Response via : Initial Calibration





#1

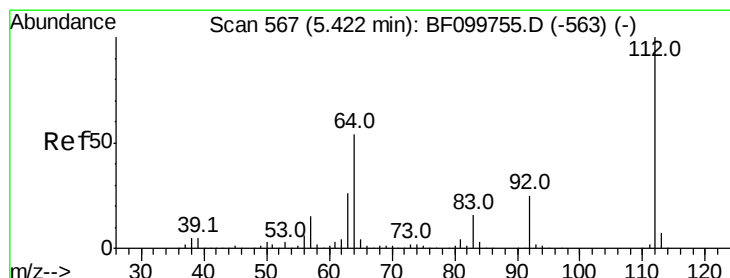
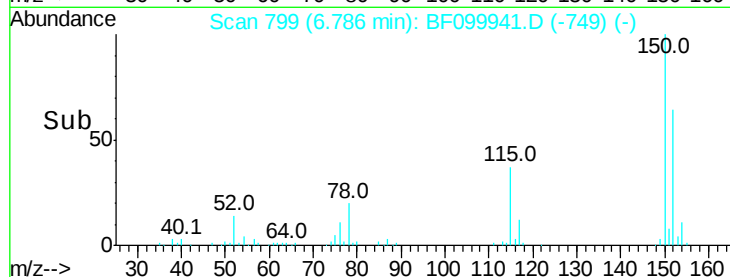
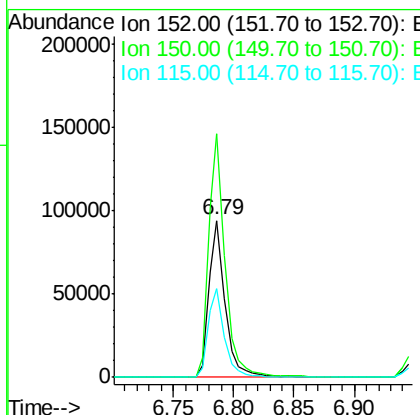
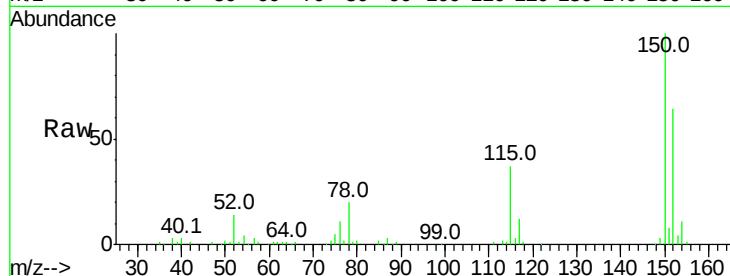
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. -0.01 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampleId :
DW-2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	56.8	50.1	75.1

Manual Integrations
APPROVED

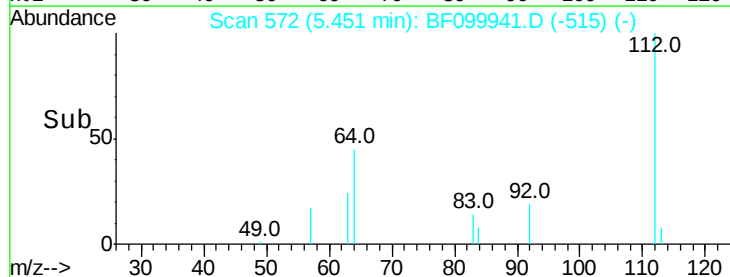
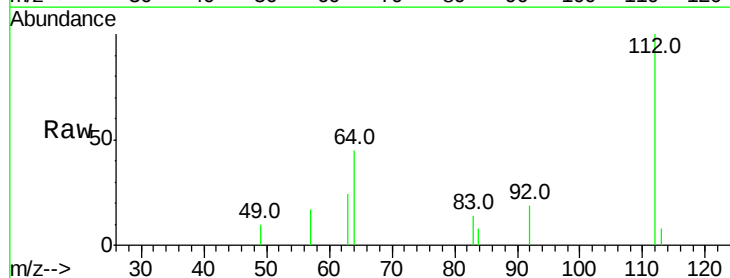
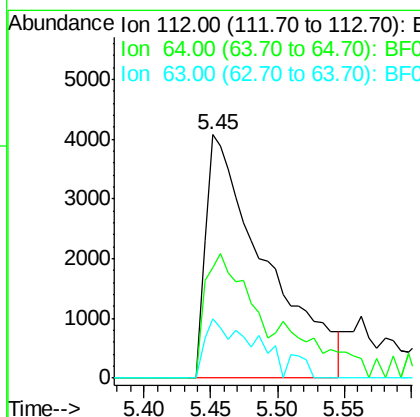
Sohil
10/30/2017 6:20:45 PM



#5

2-Fluorophenol
Concen: 2.286 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.04 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	45.2	47.9	71.9#
63	24.3	23.7	35.5





#7

Phenol-d6

Concen: 3.397 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.02 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Instrument :

BNA_F

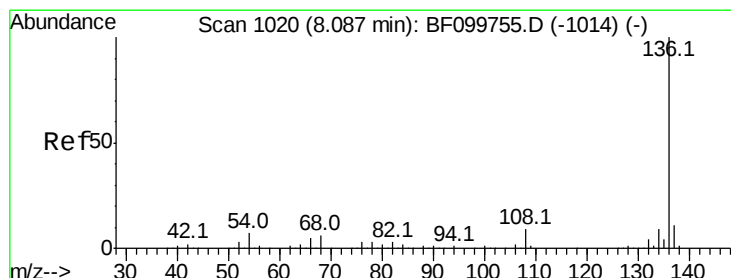
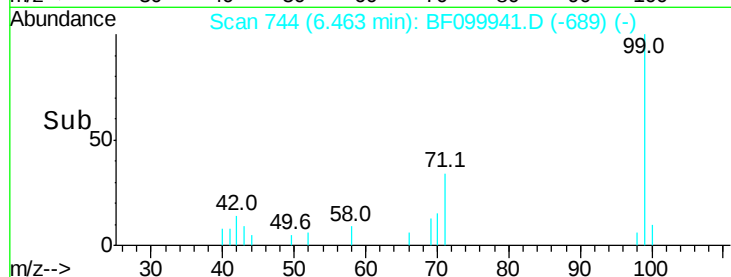
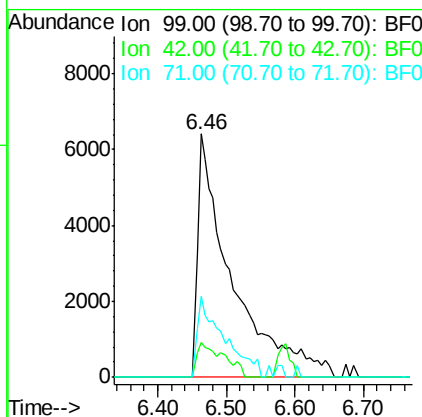
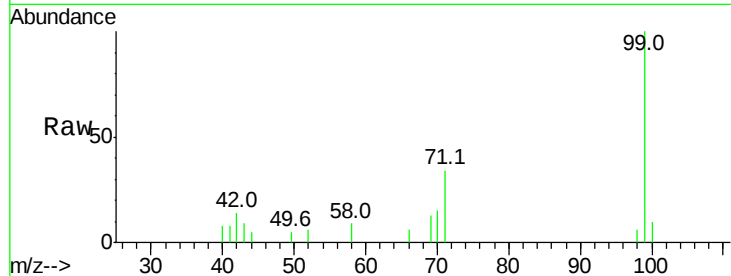
ClientSampled :

DW-2DL

Tot Ion:	99	Resp:	22286
Ion Ratio	Lower	Upper	
99	100		
42	14.4	14.5	21.7#
71	33.5	25.4	38.0

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM



#21

Naphthalene-d8

Concen: 20.000 ng

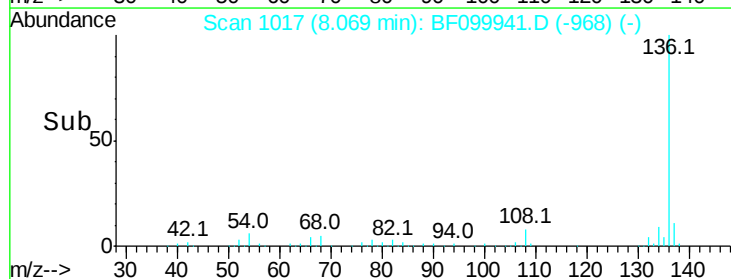
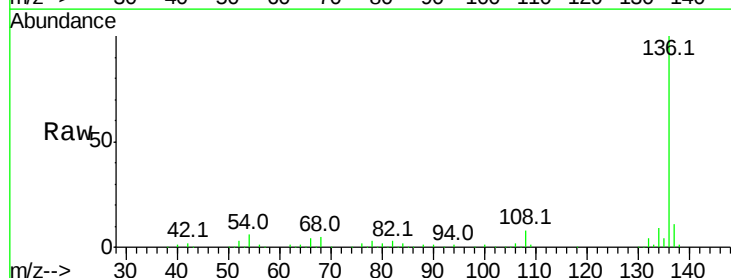
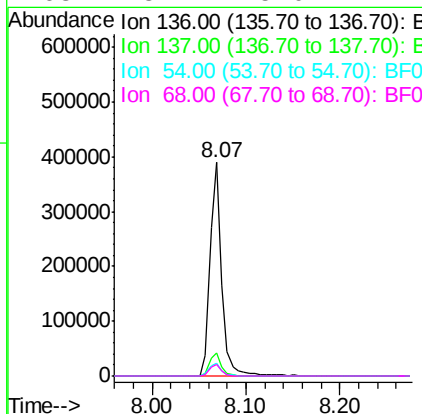
RT: 8.07 min Scan# 1017

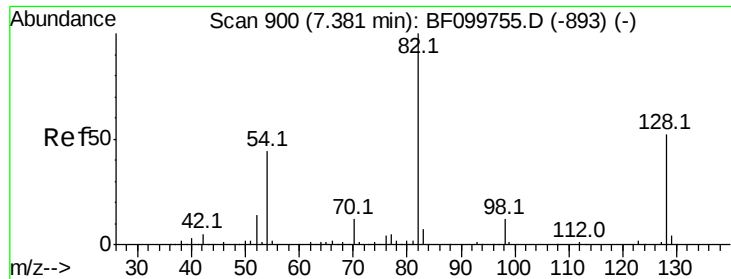
Delta R.T. -0.01 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Tgt Ion:	136	Resp:	342505
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	5.8	6.6	9.8#
68	5.4	5.0	7.4





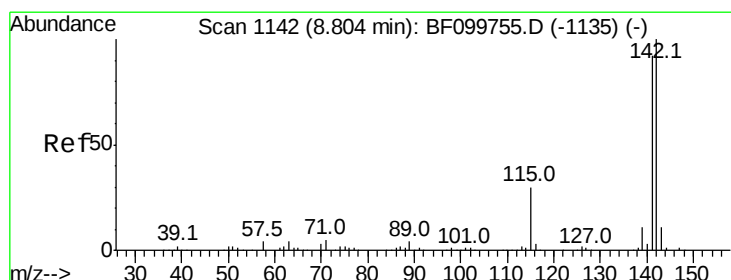
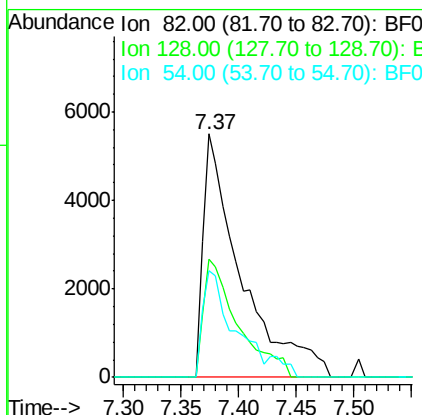
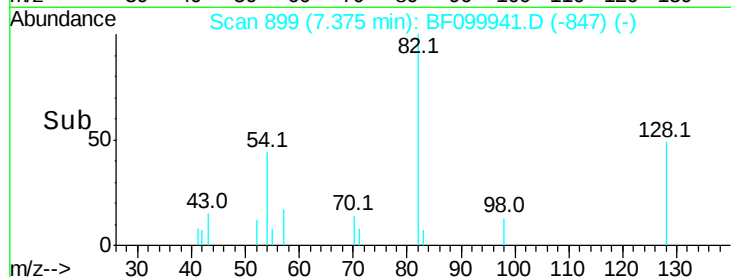
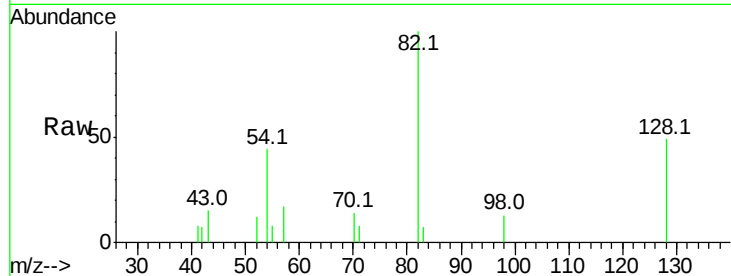
#23
 Nitrobenzene-d5
 Concen: 2.368 ng
 RT: 7.37 min Scan# 899
 Delta R.T. 0.01 min
 Lab File: BF099941.D
 Acq: 29 Oct 2017 4:12

Instrument :
 BNA_F
 ClientSampled :
 DW-2DL

Tot Ion:	82	Resp:	12600
Ion Ratio	Lower	Upper	
82	100		
128	48.5	36.1	54.1
54	43.8	41.4	62.2

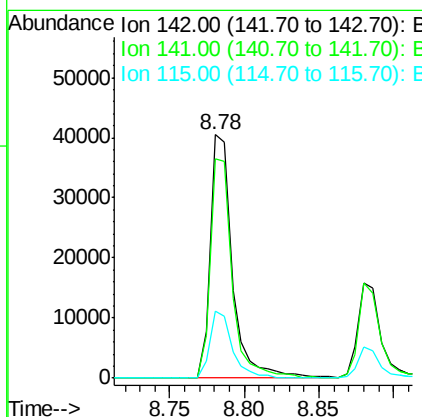
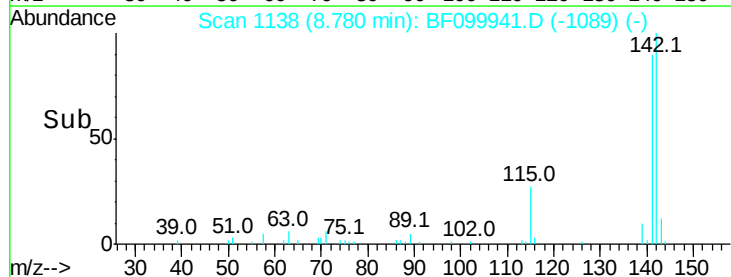
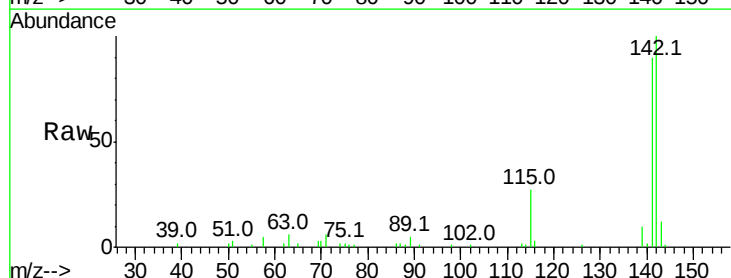
Manual Integrations
 APPROVED

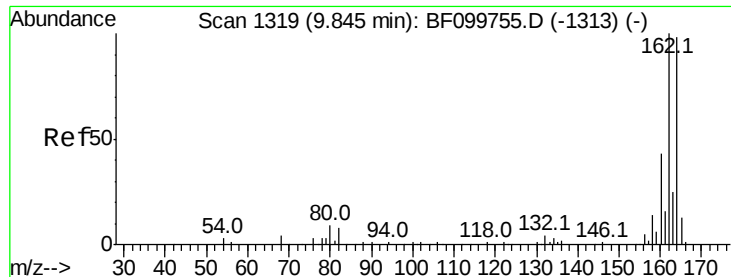
Sohil
 10/30/2017 6:20:45 PM



#37
 2-Methylnaphthalene
 Concen: 3.770 ng
 RT: 8.78 min Scan# 1138
 Delta R.T. -0.01 min
 Lab File: BF099941.D
 Acq: 29 Oct 2017 4:12

Tgt Ion:	142	Resp:	41765
Ion Ratio	Lower	Upper	
142	100		
141	90.1	70.8	106.2
115	27.4	26.1	39.1





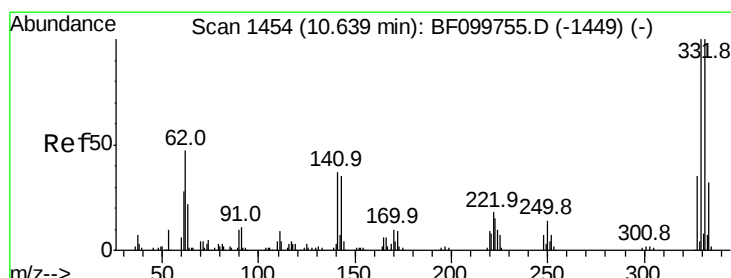
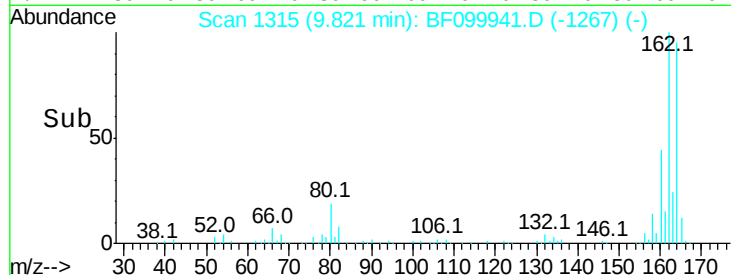
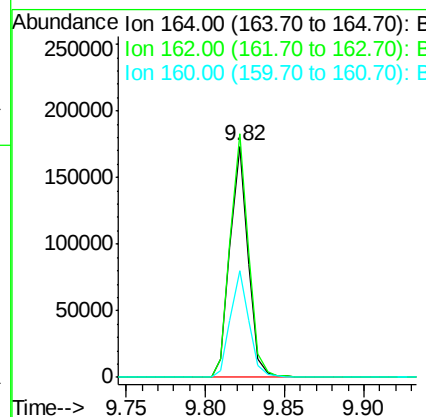
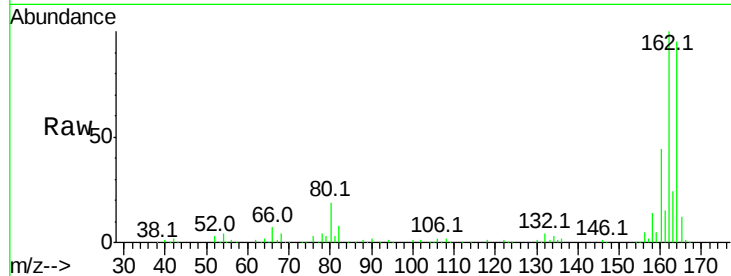
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1315
Delta R.T. -0.02 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampleID :
DW-2DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.3	86.1	129.1	
160	46.0	38.3	57.5	

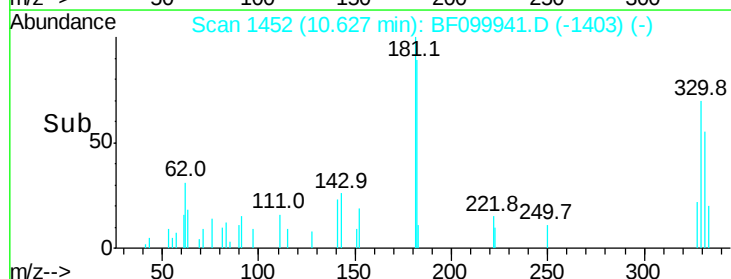
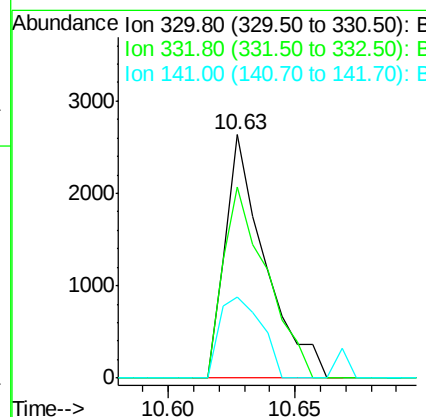
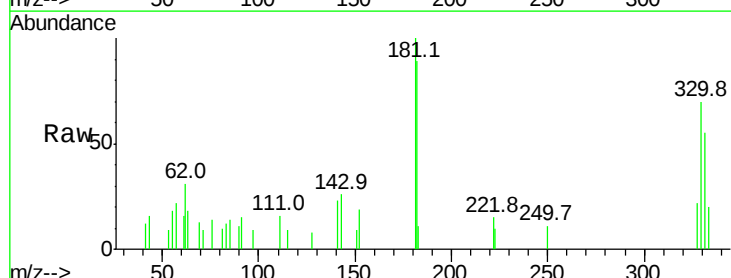
Manual Integrations
APPROVED

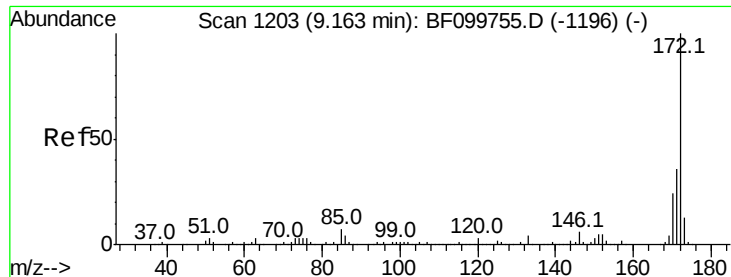
Sohil
10/30/2017 6:20:45 PM



#41
2,4,6-Tribromophenol
Concen: 2.299 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	84.8	77.0	115.6	
141	34.7	29.9	44.9	





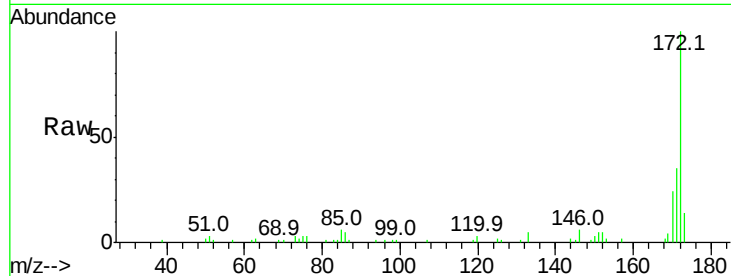
#44
2-Fluorobiphenyl
Concen: 3.508 ng
RT: 9.14 min Scan# 1199
Delta R.T. -0.02 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampleId :
DW-2DL

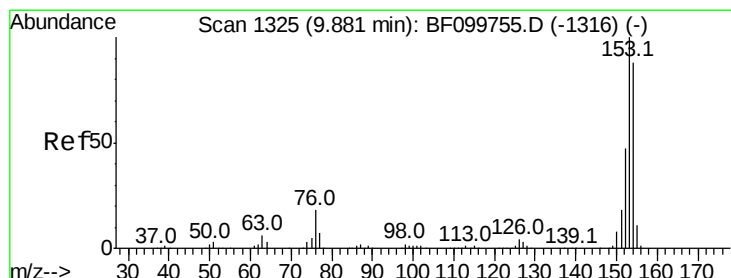
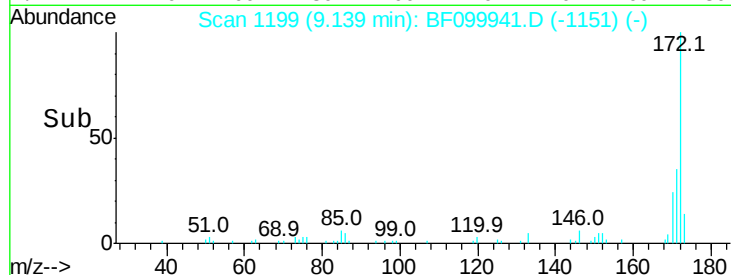
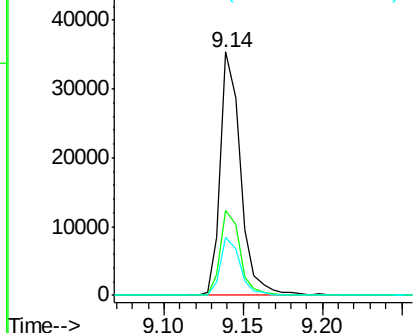
Tot Ion	Ratio	Resp	Lower	Upper
172	100	31465		
171	35.0		29.7	44.5
170	24.0		19.6	29.4

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM

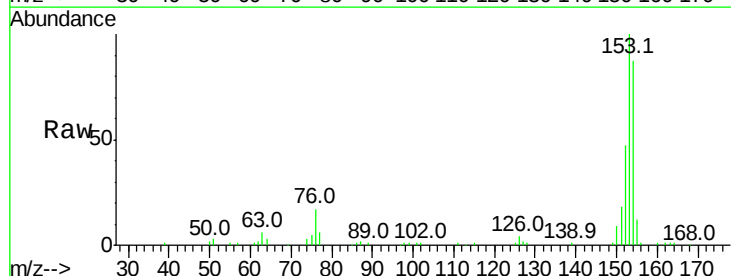


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

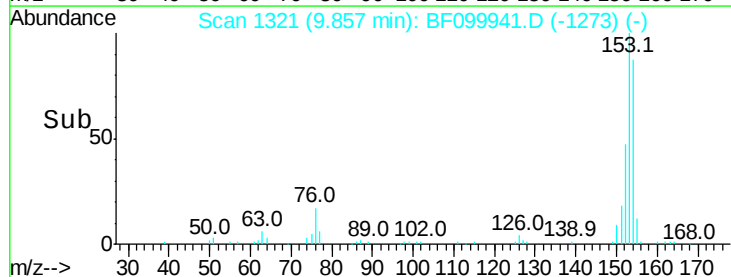
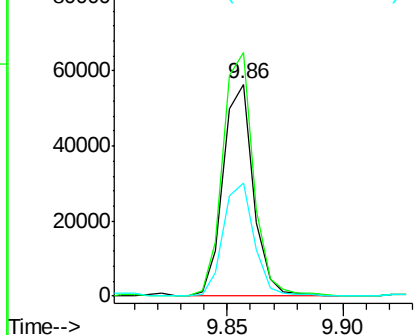


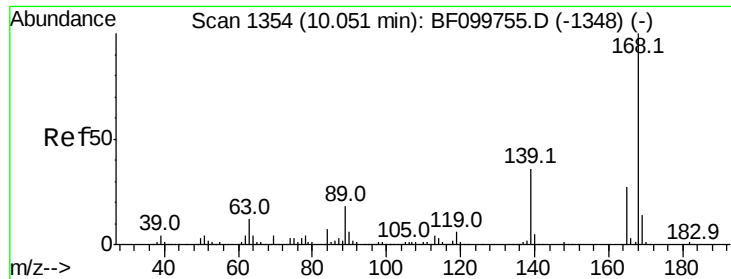
#51
Acenaphthene
Concen: 6.022 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.02 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	51524		
153	115.0		91.2	136.8
152	53.6		43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 4.675 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.02 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Instrument :

BNA_F

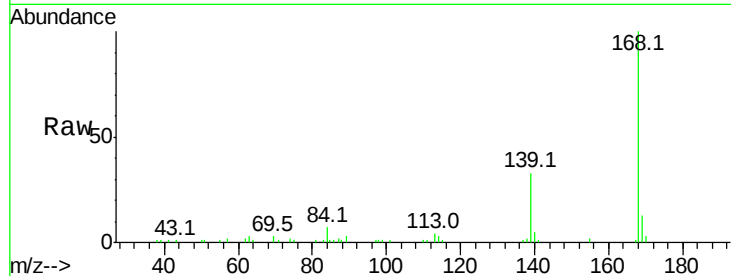
ClientSampleId :

DW-2DL

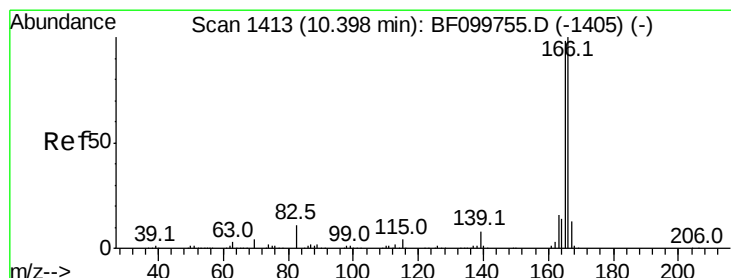
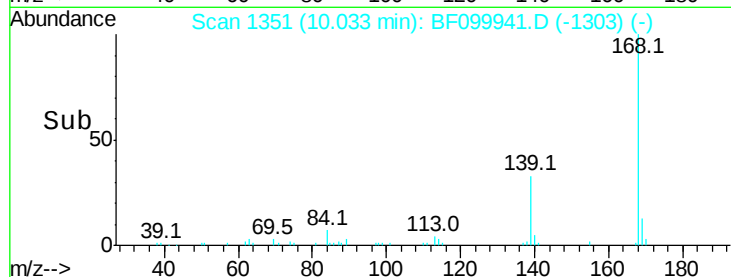
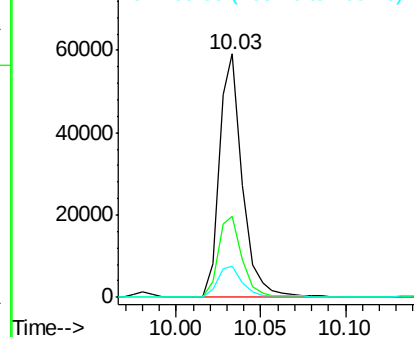
Tot Ion:	168	Resp:	56464
Ion Ratio	Lower	Upper	
168	100		
139	33.4	30.1	45.1
169	12.9	10.9	16.3

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM



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: 6.691 ng

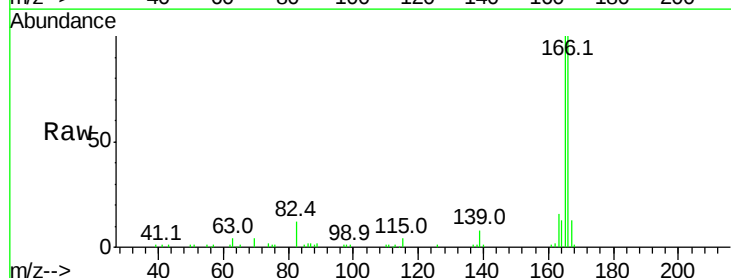
RT: 10.37 min Scan# 1409

Delta R.T. -0.02 min

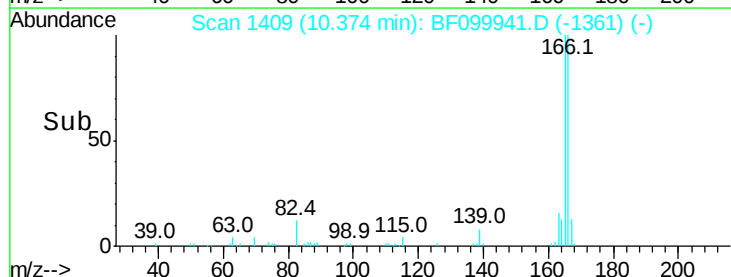
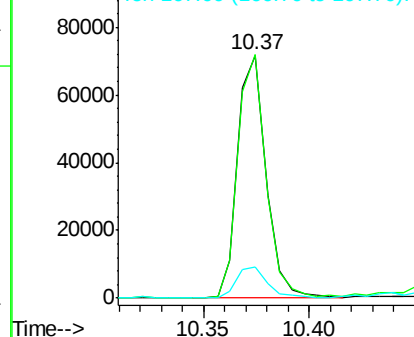
Lab File: BF099941.D

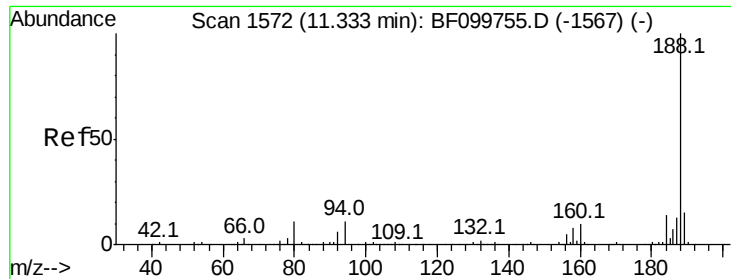
Acq: 29 Oct 2017 4:12

Tgt Ion:	166	Resp:	66905
Ion Ratio	Lower	Upper	
166	100		
165	100.3	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: 11.32 min Scan# 1569

Delta R.T. -0.02 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Instrument :

BNA_F

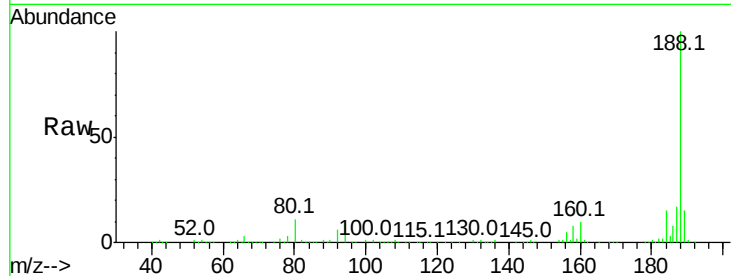
ClientSampleId :

DW-2DL

Tot Ion:	188	Resp:	195489
Ion Ratio	Lower	Upper	
188	100		
94	9.2	8.5	12.7
80	10.8	9.2	13.8

Manual Integrations
APPROVED

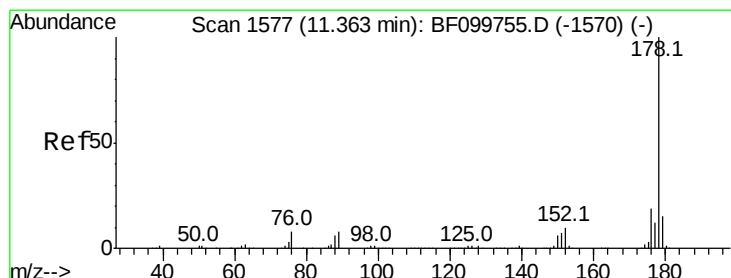
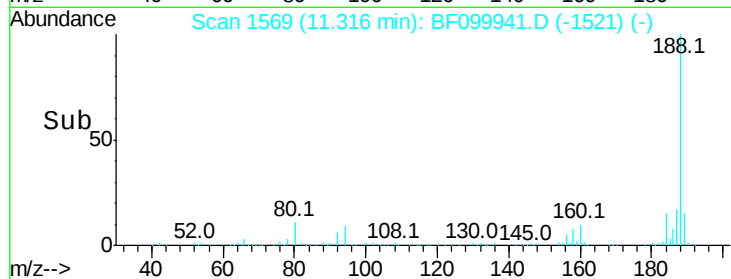
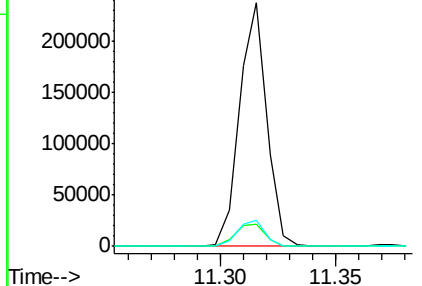
Sohil
10/30/2017 6:20:45 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 35.466 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.02 min

Lab File: BF099941.D

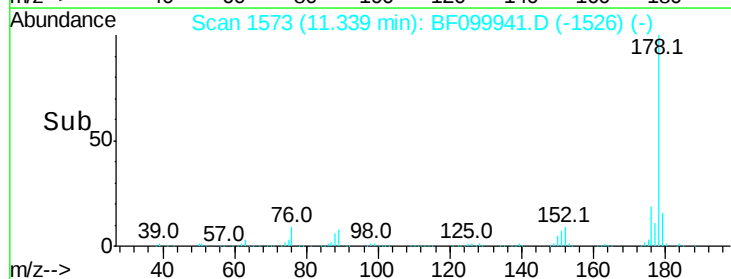
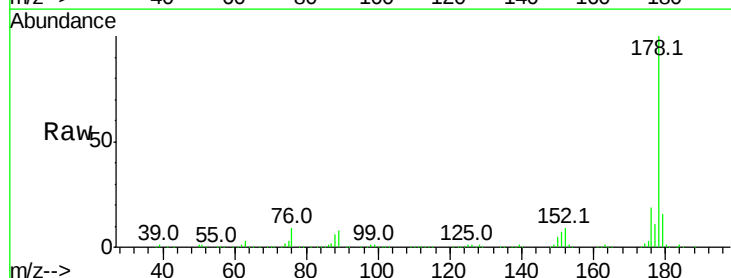
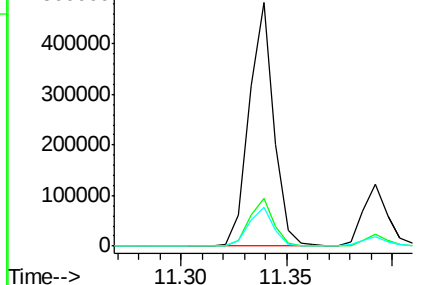
Acq: 29 Oct 2017 4:12

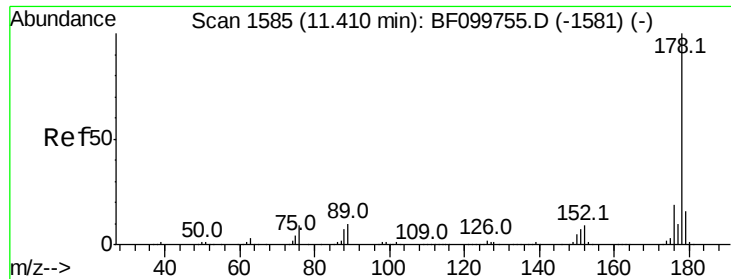
Tgt Ion:	178	Resp:	391271
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.8	23.8
179	15.9	13.0	19.6

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





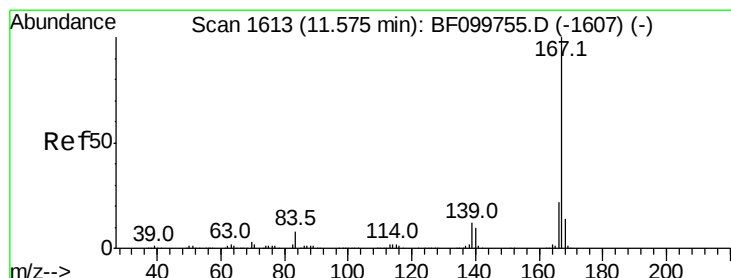
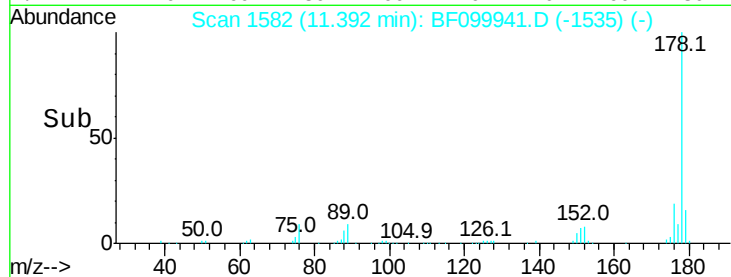
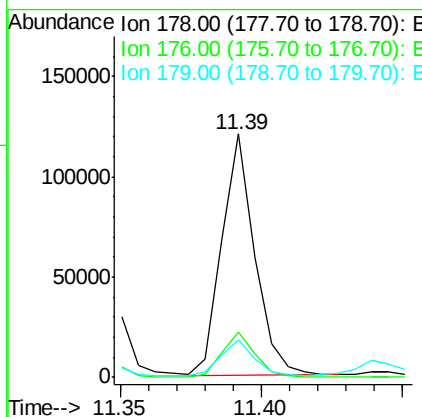
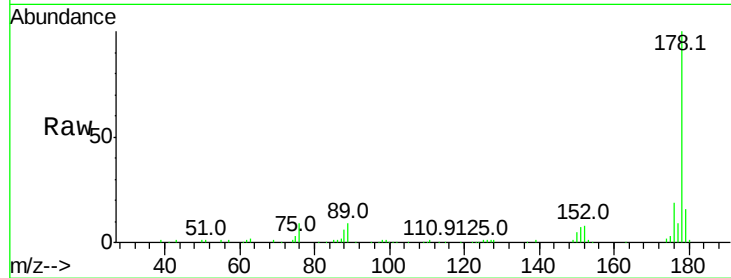
#71
 Anthracene
 Concen: 8.702 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.02 min
 Lab File: BF099941.D
 Acq: 29 Oct 2017 4:12

Instrument :
 BNA_F
 ClientSampleId :
 DW-2DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.5	12.6	19.0

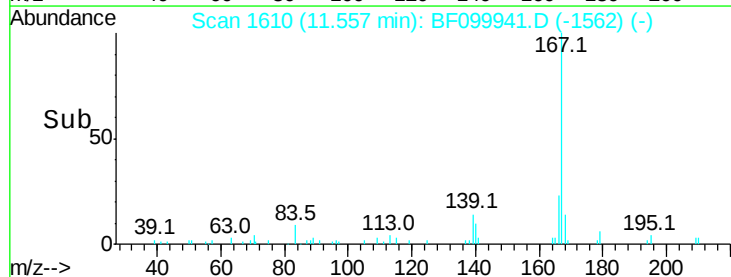
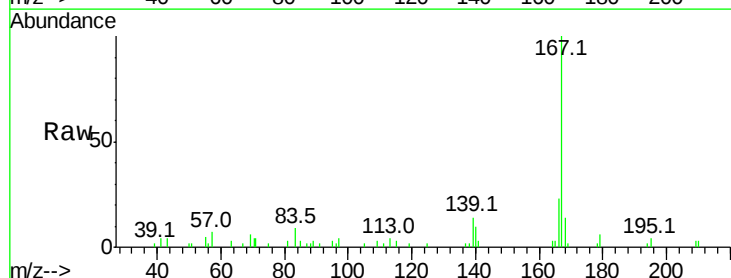
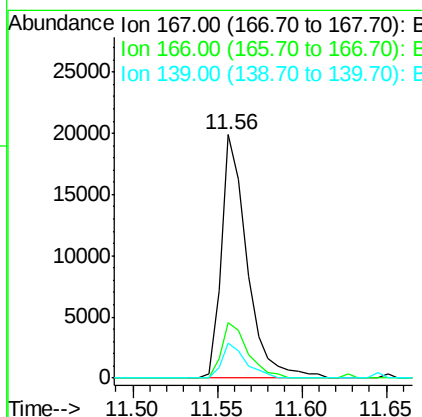
Manual Integrations
 APPROVED

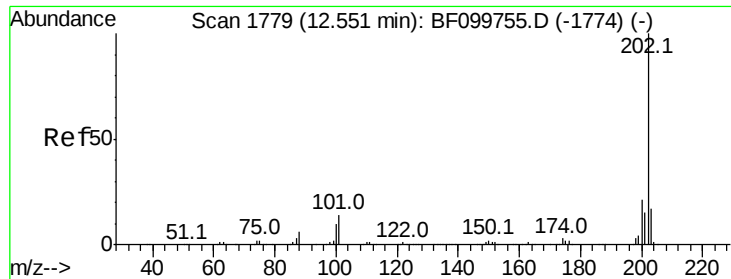
Sohil
 10/30/2017 6:20:45 PM



#72
 Carbazole
 Concen: 2.002 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.02 min
 Lab File: BF099941.D
 Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.6	26.4
139	14.1	10.9	16.3





#74

Fluoranthene

Concen: 29.864 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.02 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Instrument :

BNA_F

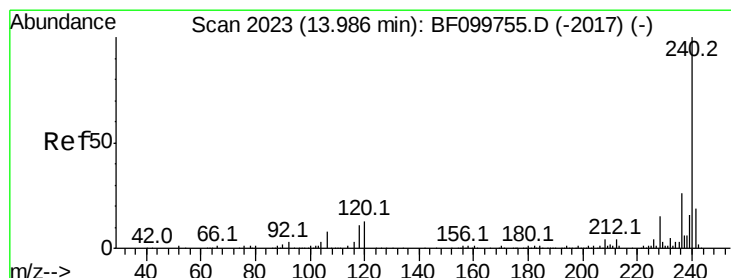
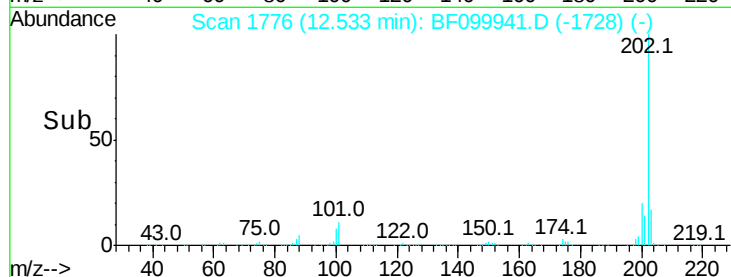
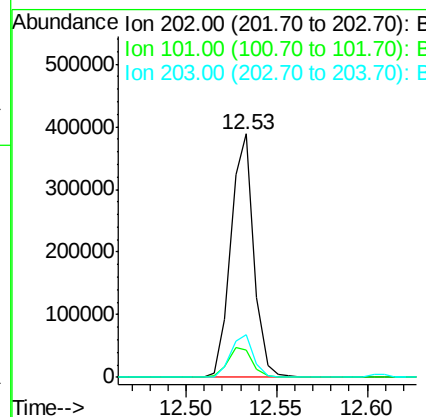
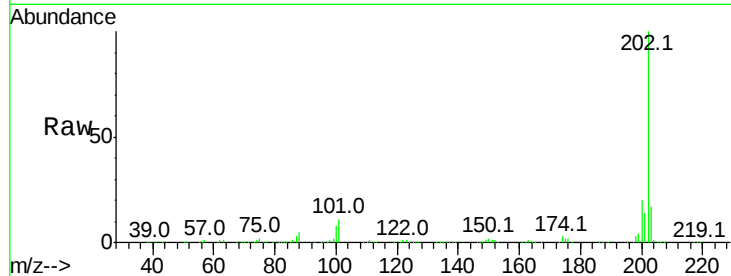
ClientSampled :

DW-2DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.4	0.0	34.1
203	17.3	0.0	38.1

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM



#75

Chrysene-d12

Concen: 20.000 ng

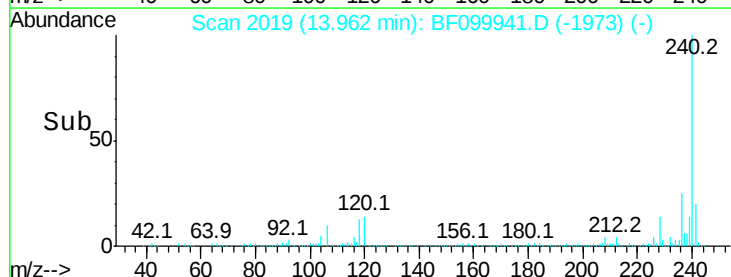
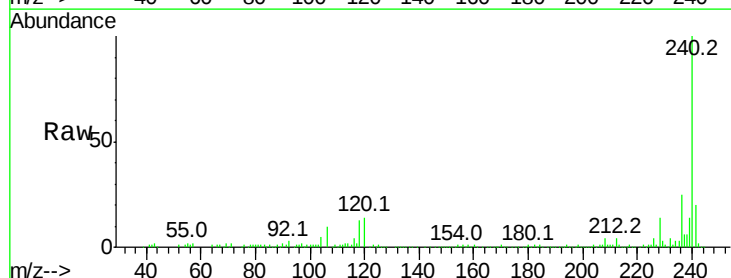
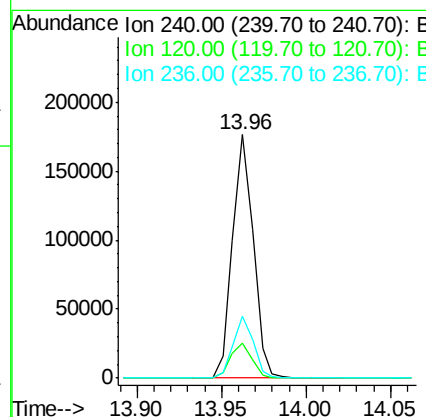
RT: 13.96 min Scan# 2019

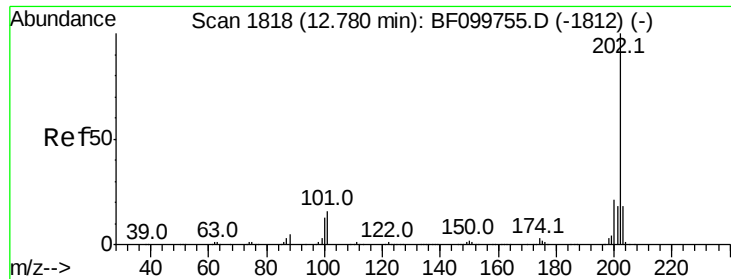
Delta R.T. -0.03 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

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





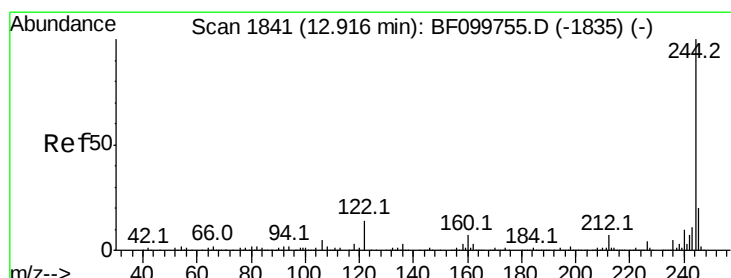
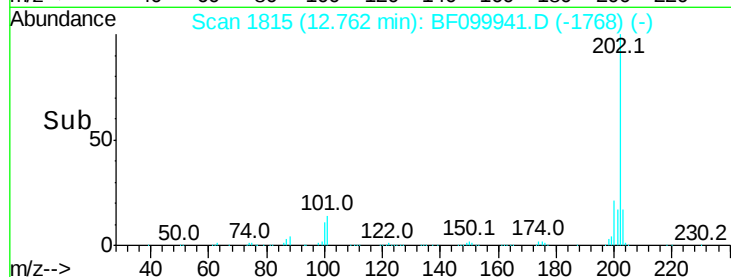
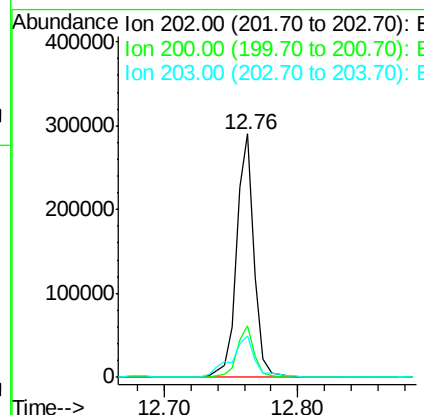
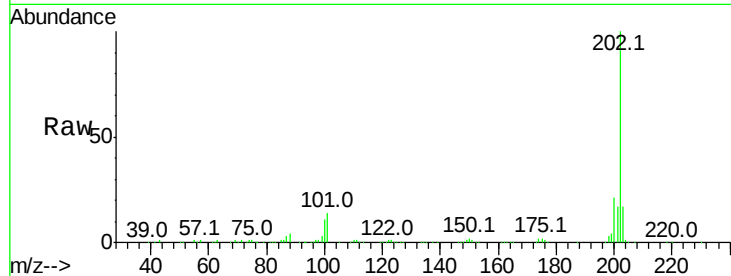
#77
Pvrene
Concen: 23.219 ng
RT: 12.76 min Scan# 1815
Delta R.T. -0.02 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampleId :
DW-2DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.0	17.4	26.2
203	17.0	14.3	21.5

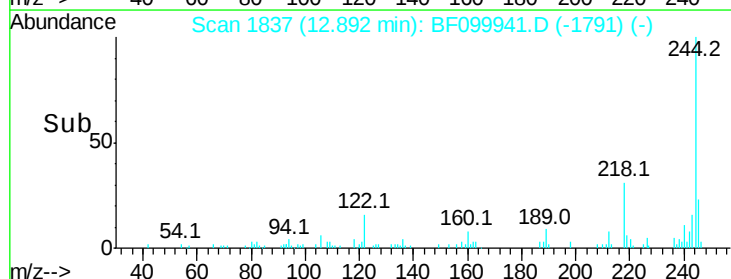
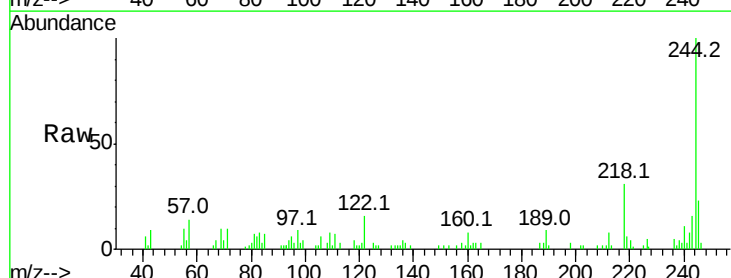
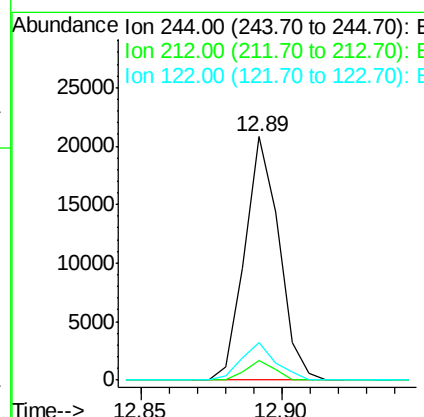
Manual Integrations
APPROVED

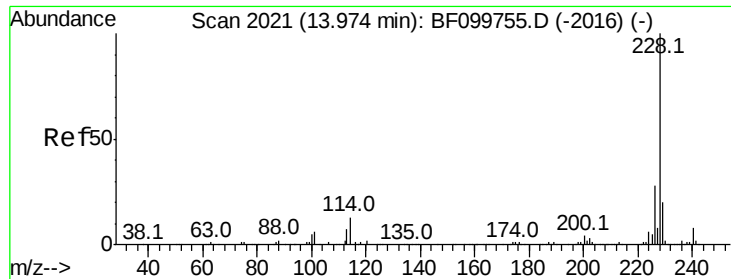
Sohil
10/30/2017 6:20:45 PM



#78
Terphenyl-d14
Concen: 2.528 ng
RT: 12.89 min Scan# 1837
Delta R.T. -0.03 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.0	5.4	8.0
122	15.6	11.0	16.4





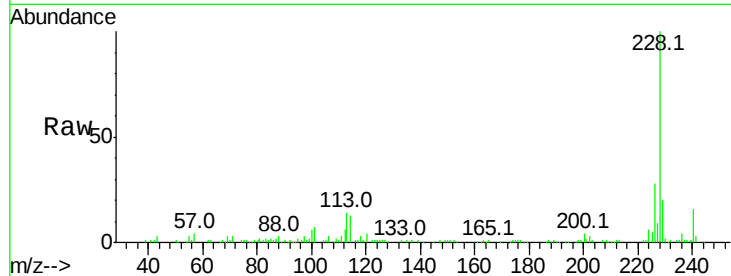
#80
Benzo(a)anthracene
Concen: 10.294 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.03 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampled :
DW-2DL

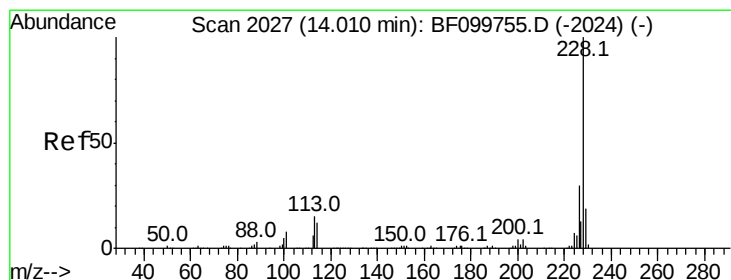
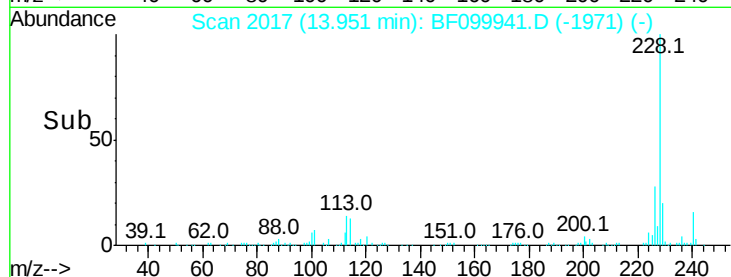
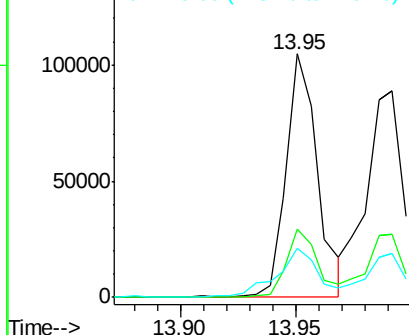
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	20.4	15.8	23.6

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM



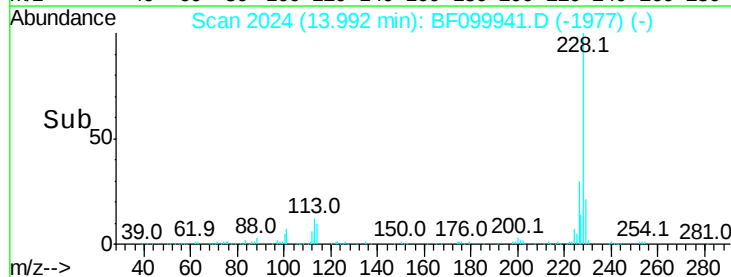
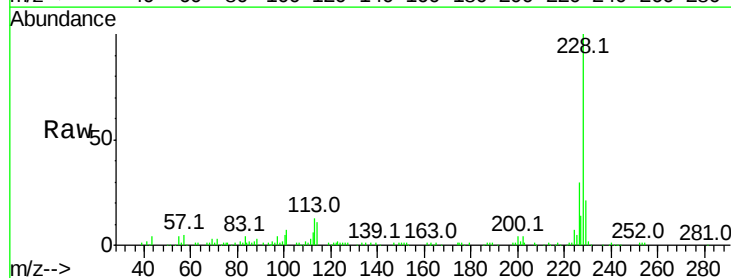
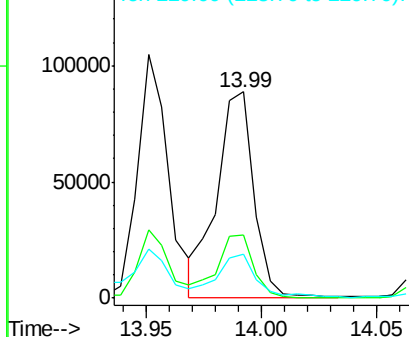
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

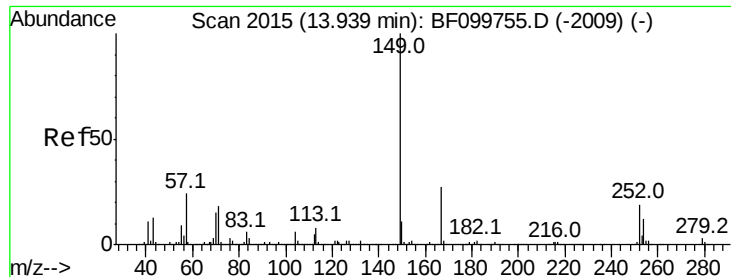


#82
Chrysene
Concen: 10.910 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.02 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.0	37.6
229	21.4	16.2	24.4

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.215 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.03 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Instrument :

BNA_F

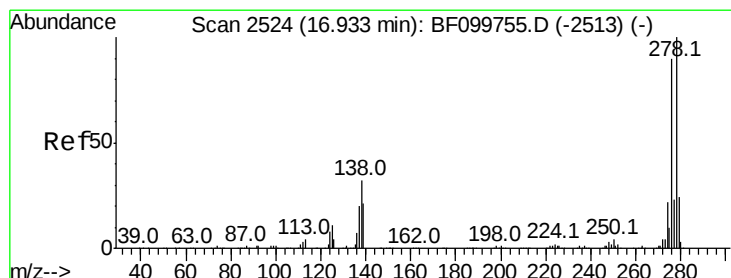
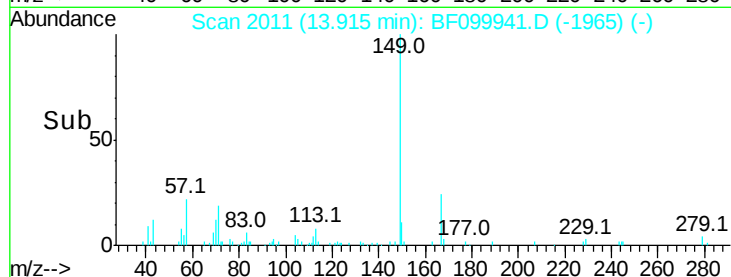
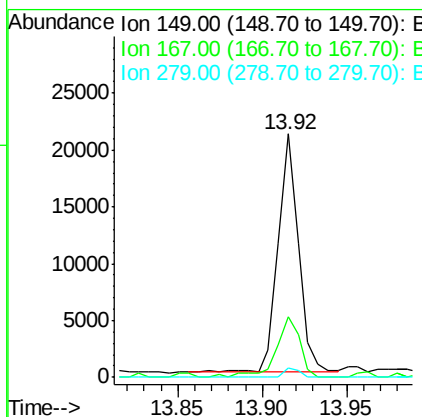
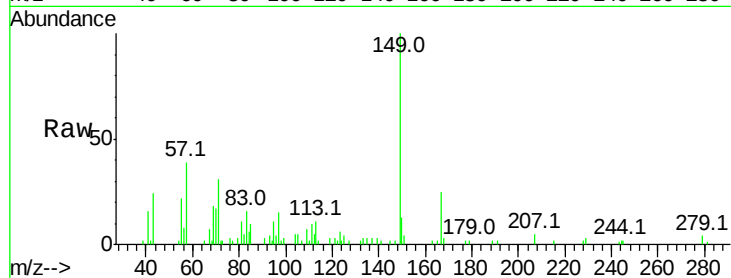
ClientSampleId :

DW-2DL

Tot Ion:	149	Resp:	17640
Ion Ratio	Lower	Upper	
149	100		
167	24.8	21.3	31.9
279	3.8	3.0	4.4

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:45 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.731 ng

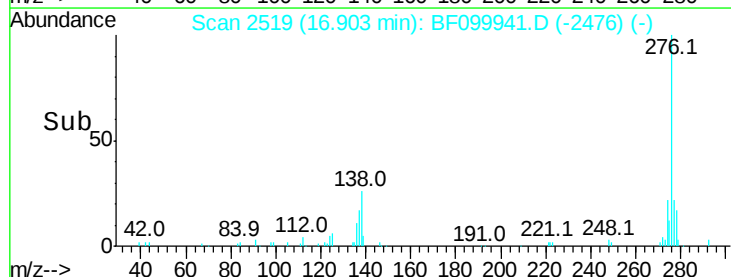
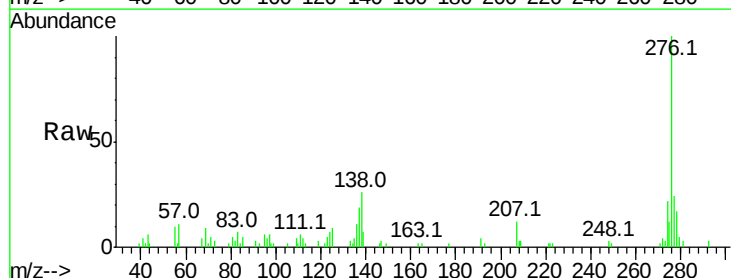
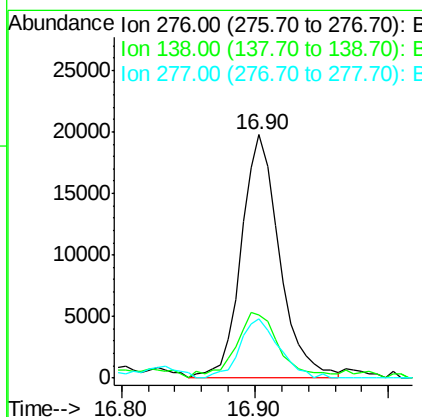
RT: 16.90 min Scan# 2519

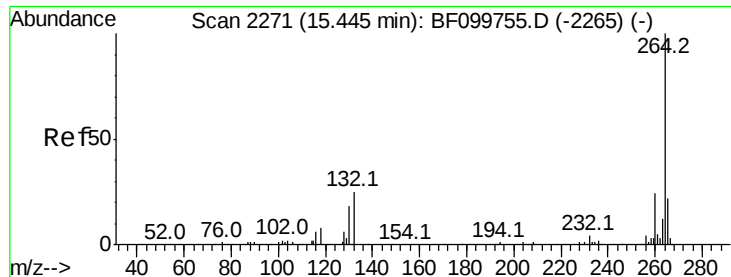
Delta R.T. -0.05 min

Lab File: BF099941.D

Acq: 29 Oct 2017 4:12

Tgt Ion:	276	Resp:	39199
Ion Ratio	Lower	Upper	
276	100		
138	31.1	25.0	37.6
277	24.8	20.1	30.1





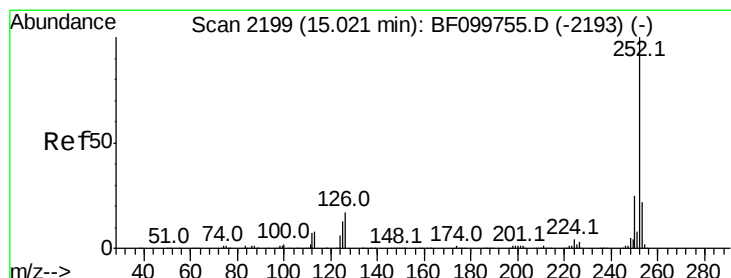
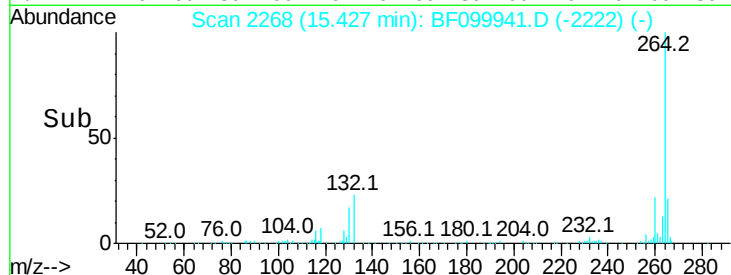
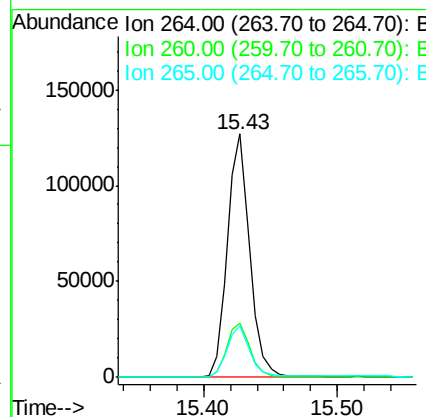
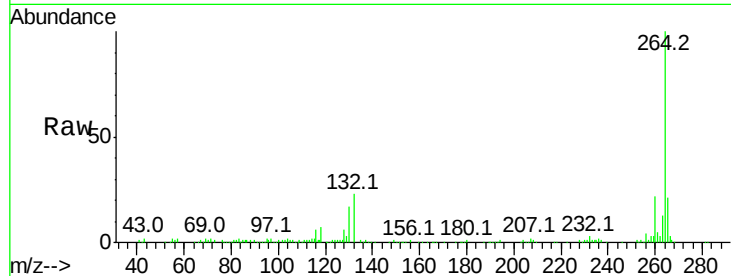
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.03 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampleId :
DW-2DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.3	19.2	28.8
265	21.2	17.5	26.3

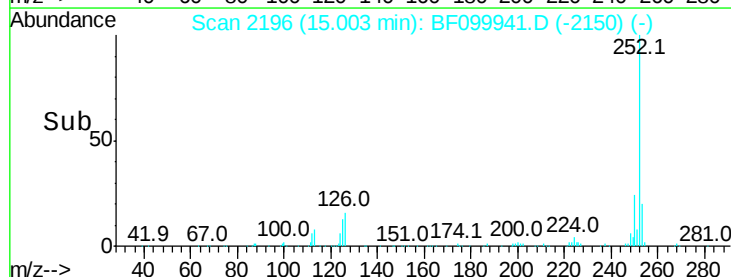
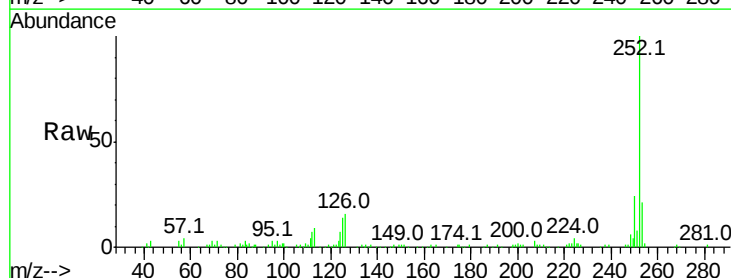
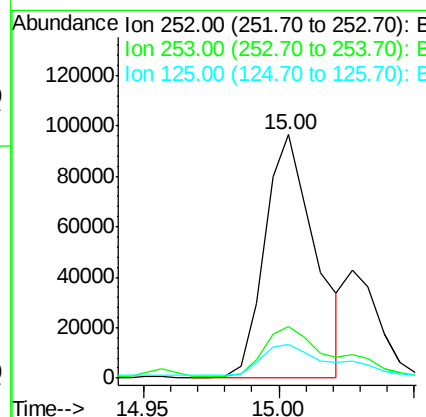
Manual Integrations
APPROVED

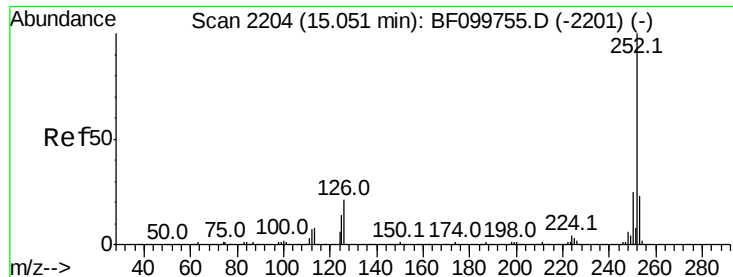
Sohil
10/30/2017 6:20:45 PM



#87
Benzo(b)fluoranthene
Concen: 13.206 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.03 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.0	25.6
125	13.8	9.0	13.6#





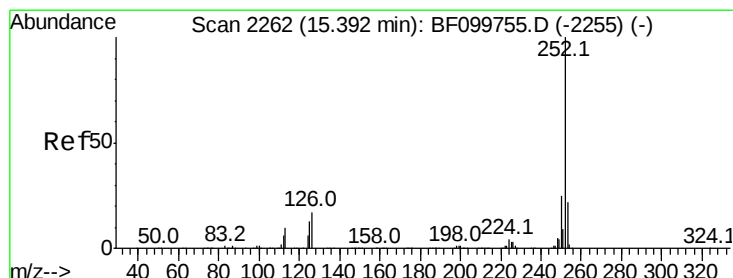
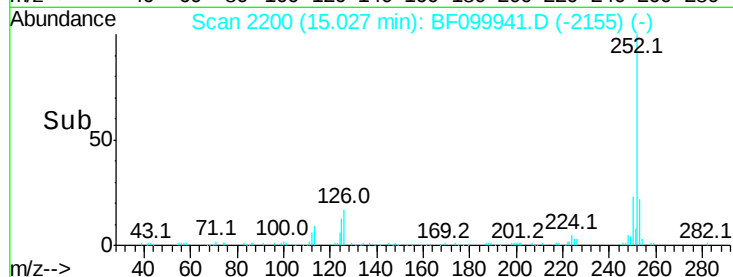
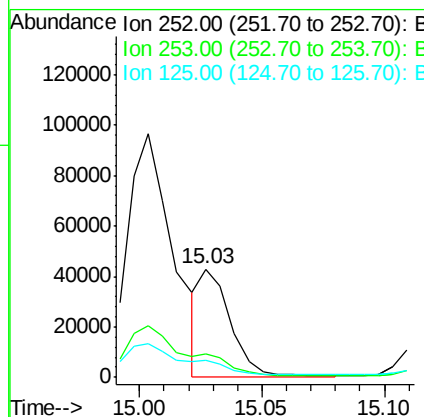
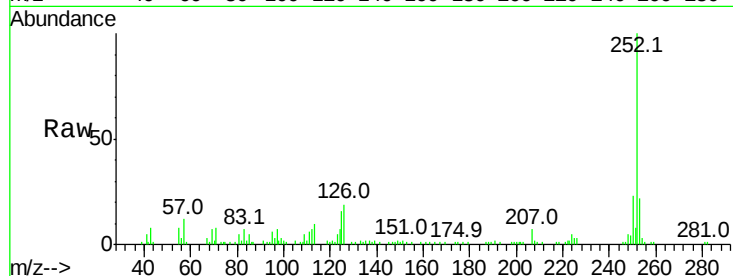
#88
Benzo(k)fluoranthene
Concen: 4.293 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.04 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Instrument :
BNA_F
ClientSampled :
DW-2DL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	38657		
253	21.7		17.9	26.9
125	16.2		10.2	15.2#

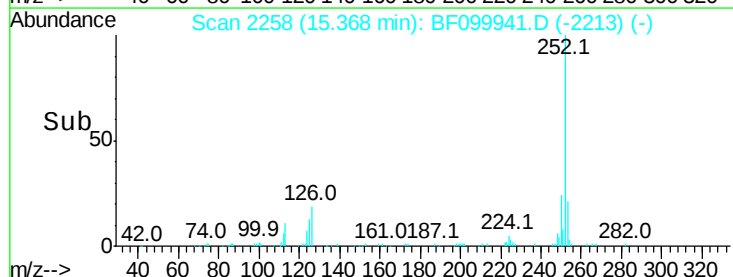
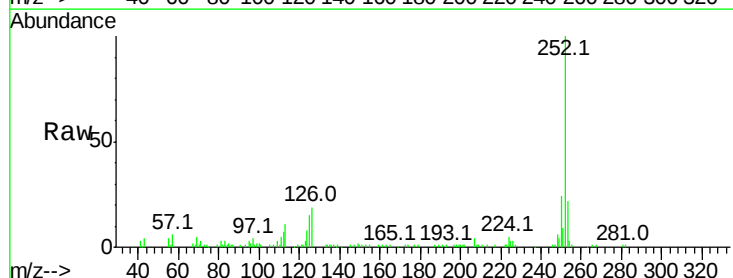
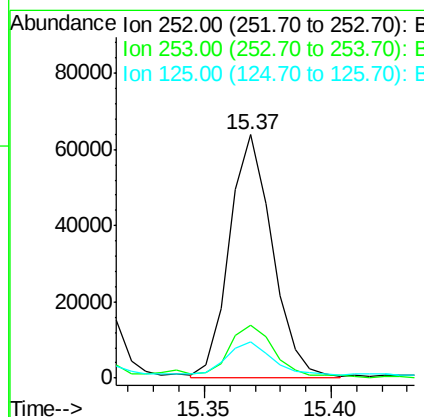
Manual Integrations
APPROVED

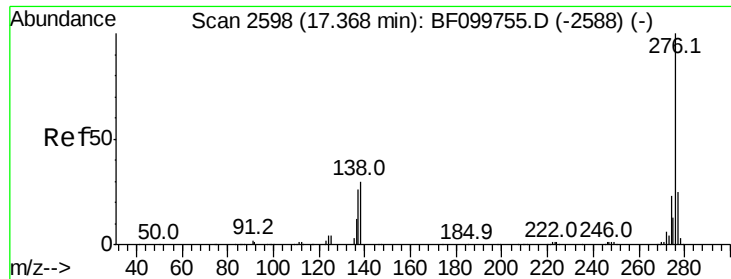
Sohil
10/30/2017 6:20:45 PM



#89
Benzo(a)pyrene
Concen: 8.801 ng
RT: 15.37 min Scan# 2258
Delta R.T. -0.04 min
Lab File: BF099941.D
Acq: 29 Oct 2017 4:12

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	75496		
253	21.7		17.1	25.7
125	15.1		9.8	14.6#





#91
 Benzo(a,h,i)perylene
 Concen: 4.637 ng
 RT: 17.35 min Scan# 2595
 Delta R.T. -0.05 min
 Lab File: BF099941.D
 Acq: 29 Oct 2017 4:12

Instrument :
 BNA_F
 ClientSampleId :
 DW-2DL

Tot Ion:	276	Resp:	34581
Ion Ratio	Lower	Upper	
276	100		
277	24.9	17.9	26.9
138	32.1	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 10/30/2017 6:20:45 PM

