

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
 Data File : BF083581.D
 Acq On : 8 Dec 2015 4:43
 Operator : UM/IZ
 Sample : G4584-01DL 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Manual Integrations
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Quant Time: Dec 08 06:44:27 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.72	152	161023	20.00	ng	-0.05
21) Naphthalene-d8	7.63	136	596942	20.00	ng	-0.05
38) Acenaphthene-d10	10.42	164	259271	20.00	ng	-0.05
63) Phenanthrene-d10	12.82	188	406783	20.00	ng	-0.03
75) Chrysene-d12	17.03	240	363035	20.00	ng	-0.02
86) Perylene-d12	18.66	264	293199	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.00	112	250885	23.64	ng	-0.03
7) Phenol-d6	5.29	99	333087	22.78	ng	-0.03
23) Nitrobenzene-d5	6.54	82	206348	16.16	ng	-0.06
41) 2,4,6-Tribromophenol	11.71	330	45044	18.83	ng	-0.05
44) 2-Fluorobiphenyl	9.37	172	323273	16.91	ng	-0.06
78) Terphenyl-d14	15.44	244	245226	15.03	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	7.65	128	1276793	40.18	ng	99
37) 2-Methylnaphthalene	8.76	142	334829	17.04	ng	98
45) 1,1'-Biphenyl	9.52	154	164599	7.14	ng	98
48) Acenaphthylene	10.19	152	927080	32.61	ng	100
51) Acenaphthene	10.46	154	151972	9.29	ng	97
54) Dibenzofuran	10.76	168	52449	2.31	ng	98
57) Fluorene	11.30	166	396379	20.10	ng	97
70) Phenanthrene	12.87	178	2655626	112.16	ng	99
71) Anthracene	12.93	178	719844	29.81	ng	100
74) Fluoranthene	14.79	202	1889394	80.51	ng	97
77) Pyrene	15.15	202	2664518	98.11	ng	99
80) Benzo(a)anthracene	17.01	228	941716m	44.34	ng	
82) Chrysene	17.06	228	896694	42.38	ng	98
85) Indeno(1,2,3-cd)pyrene	19.91	276	426985	23.54	ng	# 100
87) Benzo(b)fluoranthene	18.28	252	848776m	51.55	ng	
88) Benzo(k)fluoranthene	18.31	252	248638m	14.74	ng	
89) Benzo(a)pyrene	18.60	252	881808	55.06	ng	97
90) Dibenzo(a,h)anthracene	19.91	278	84045m	5.45	ng	
91) Benzo(a,h,i)perylene	20.26	276	502490	32.36	ng	96

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

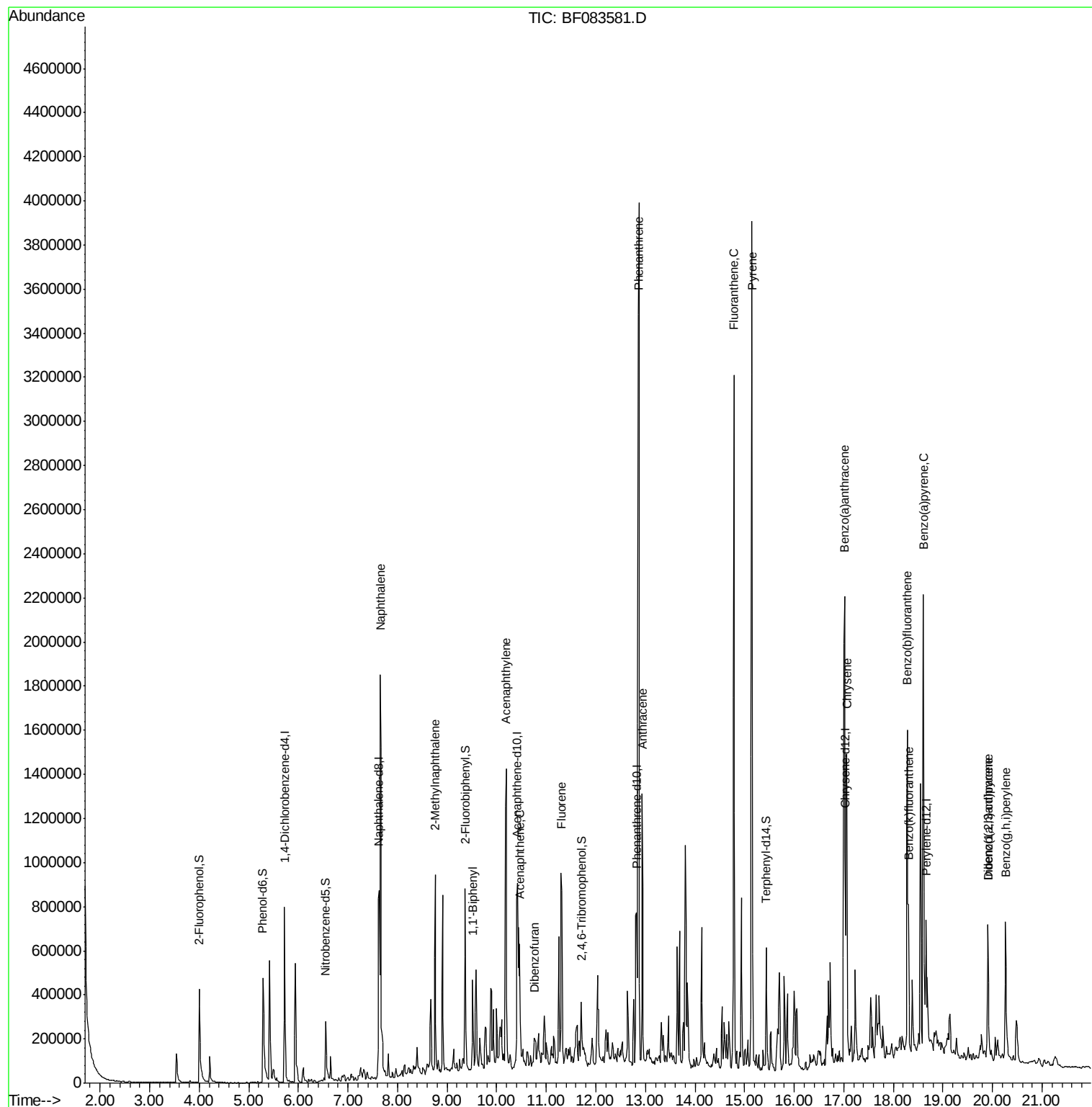
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
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ALS Vial : 23 Sample Multiplier: 1

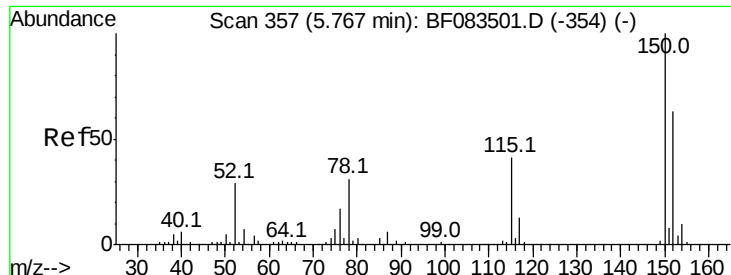
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

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Quant Time: Dec 08 06:44:27 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 05 04:12:46 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.72 min Scan# 353

Delta R.T. -0.05 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

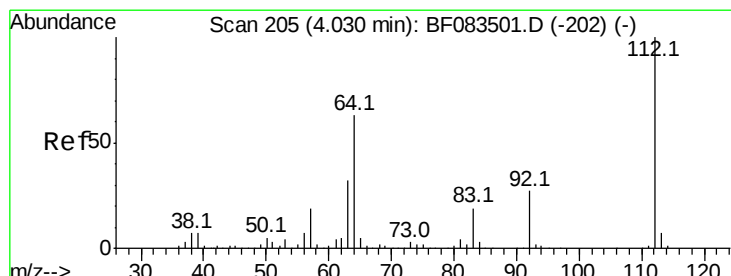
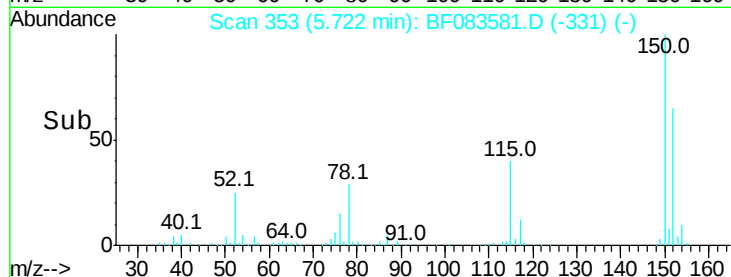
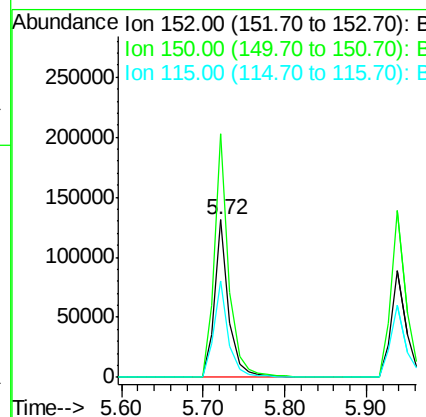
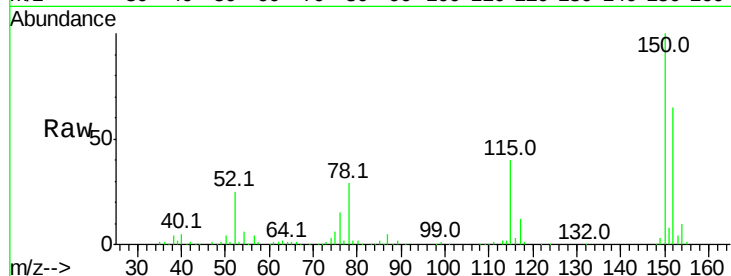
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:	152	Resp:	161023
Ion Ratio	Lower	Upper	
152	100		
150	154.4	126.5	189.7
115	61.0	52.3	78.5

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#5

2-Fluorophenol

Concen: 23.64 ng

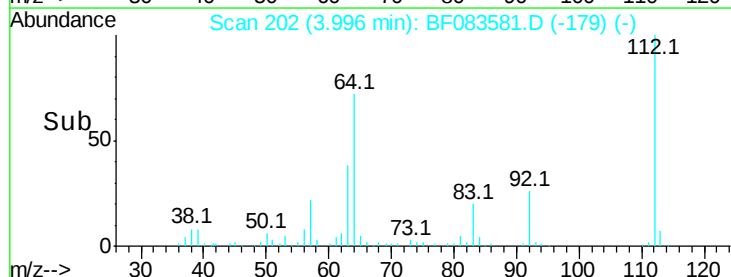
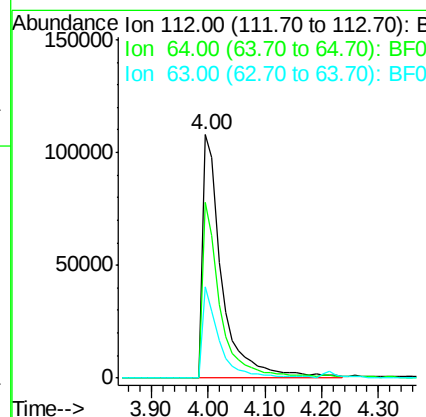
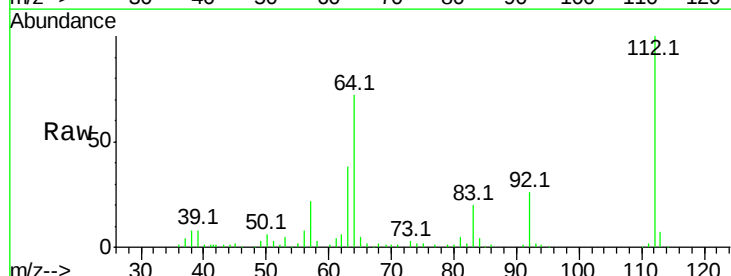
RT: 4.00 min Scan# 202

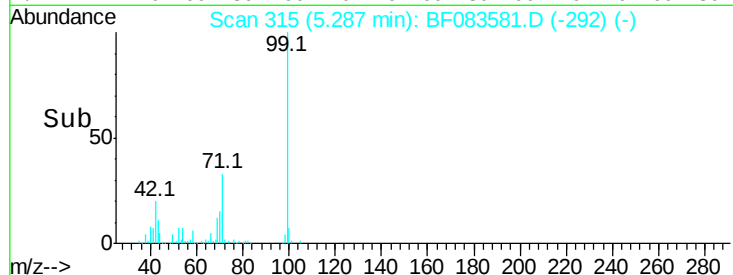
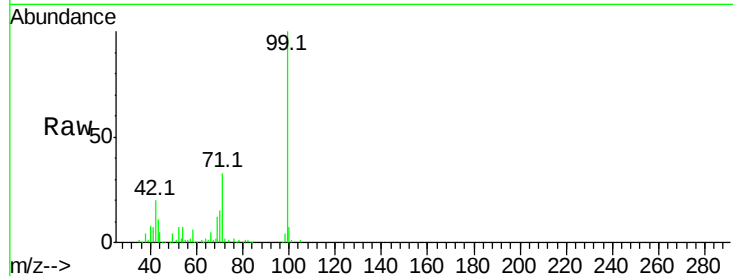
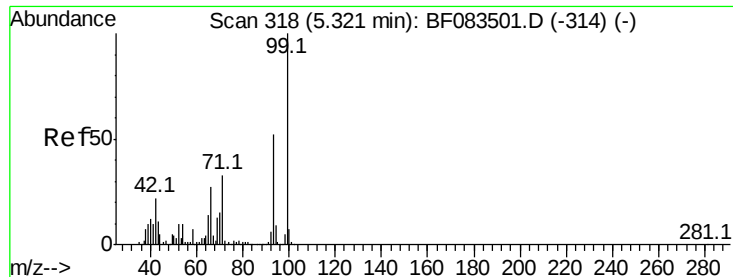
Delta R.T. -0.03 min

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Tgt Ion:	112	Resp:	250885
Ion Ratio	Lower	Upper	
112	100		
64	72.0	50.5	75.7
63	37.7	25.8	38.6





#7

Phenol-d6

Concen: 22.78 ng

RT: 5.29 min Scan# 315

Delta R.T. -0.03 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Tot Ion:	99	Resp:	333087
Ion Ratio	Lower	Upper	
99	100		
42	20.4	17.3	25.9
71	32.7	26.6	40.0

Instrument :

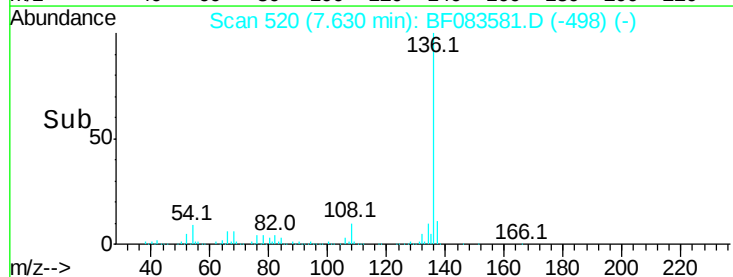
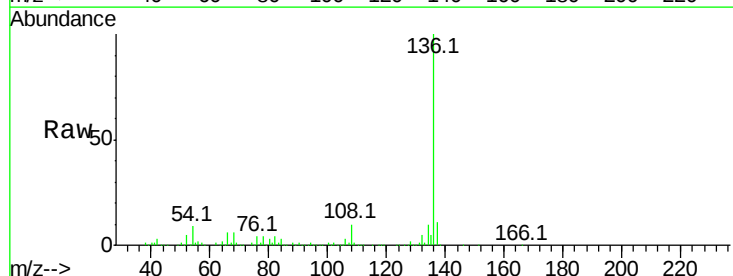
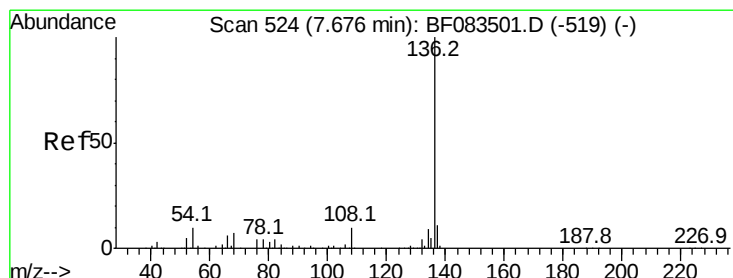
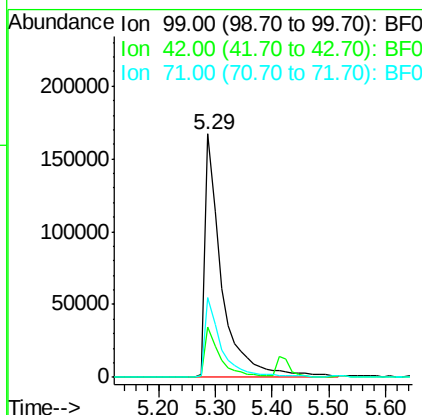
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ClientSampleId :

SB-P3WC-10(0-6)DL

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#21

Naphthalene-d8

Concen: 20.00 ng

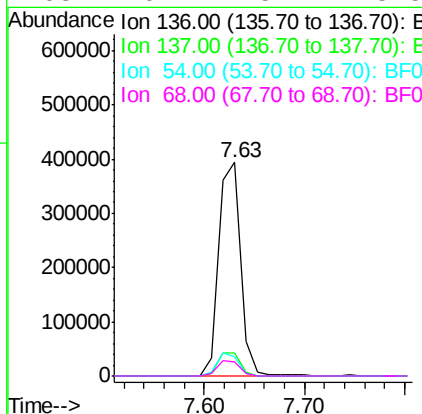
RT: 7.63 min Scan# 520

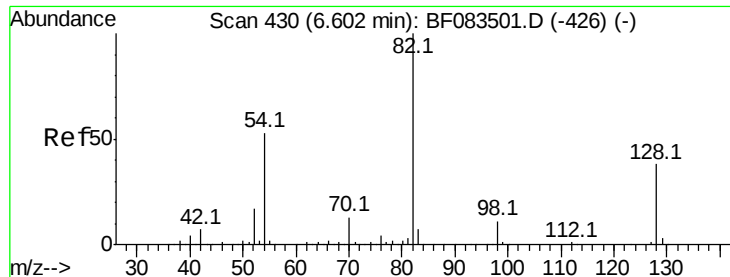
Delta R.T. -0.05 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Tgt Ion:	136	Resp:	596942
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.7	13.1
54	9.1	7.8	11.6
68	6.4	5.7	8.5





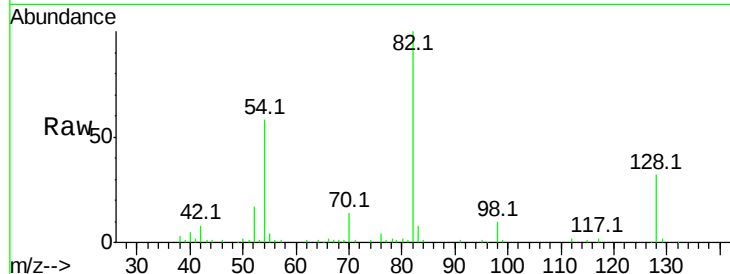
#23
Nitrobenzene-d5
Concen: 16.16 ng
RT: 6.54 min Scan# 425
Delta R.T. -0.06 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

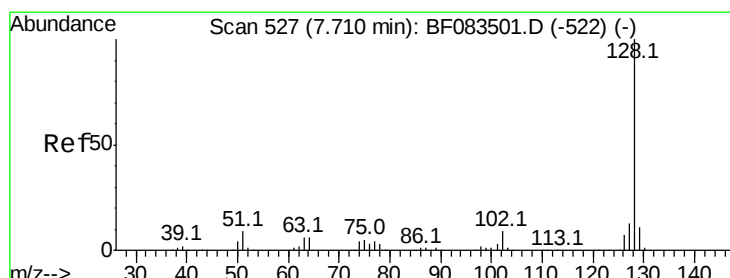
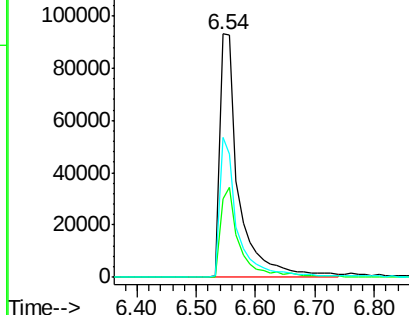
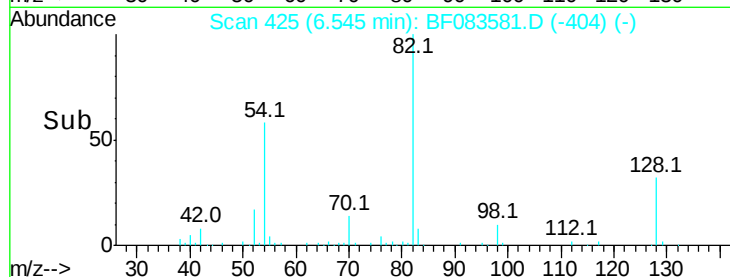
Tot Ion	Ratio	Lower	Upper
82	100		
128	32.2	30.7	46.1
54	57.6	42.5	63.7

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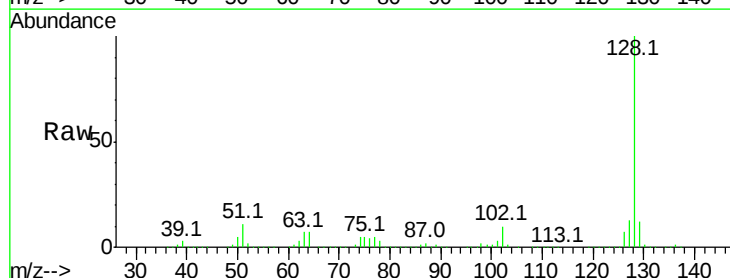


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

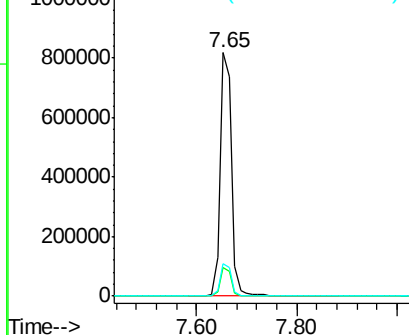
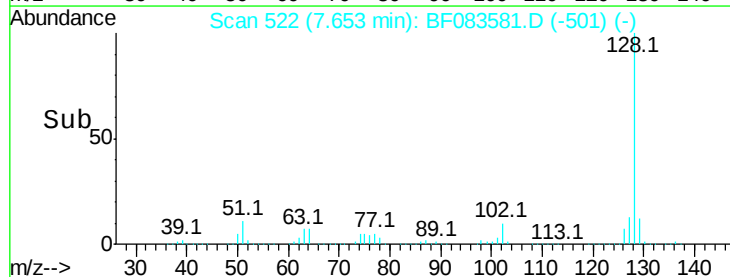


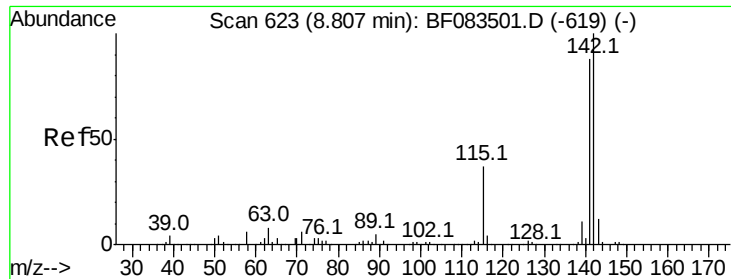
#31
Naphthalene
Concen: 40.18 ng
RT: 7.65 min Scan# 522
Delta R.T. -0.06 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.6	13.0
127	13.1	10.6	16.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





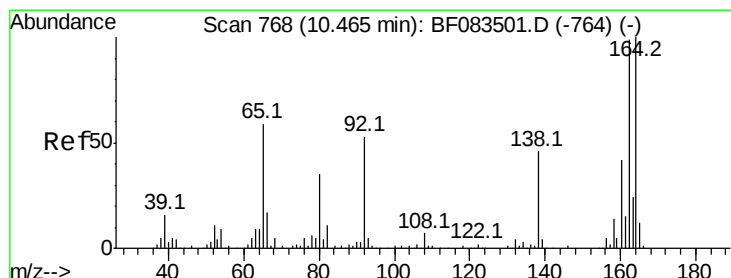
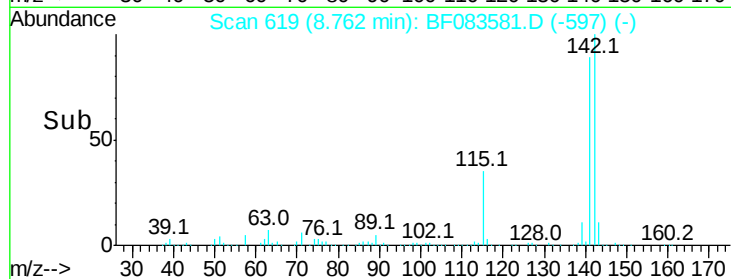
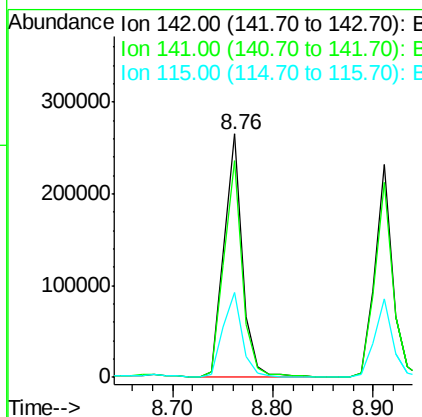
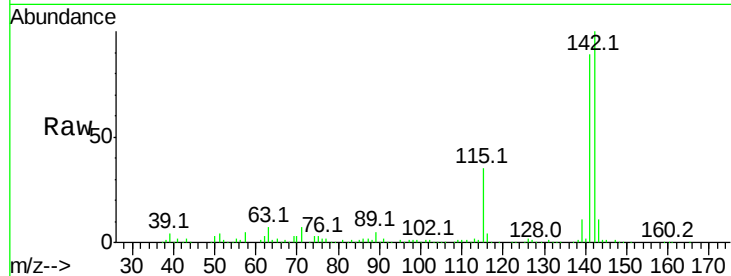
#37
2-Methylnaphthalene
Concen: 17.04 ng
RT: 8.76 min Scan# 619
Delta R.T. -0.05 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	334829		
141	88.9		70.3	105.5
115	35.0		29.2	43.8

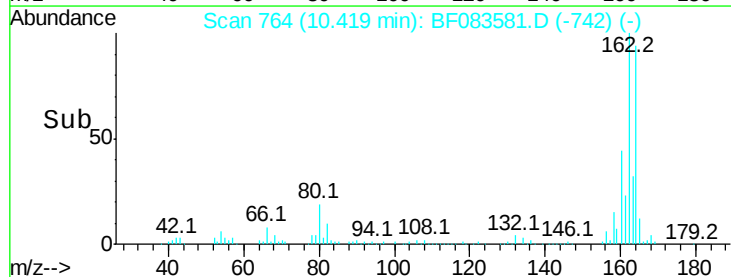
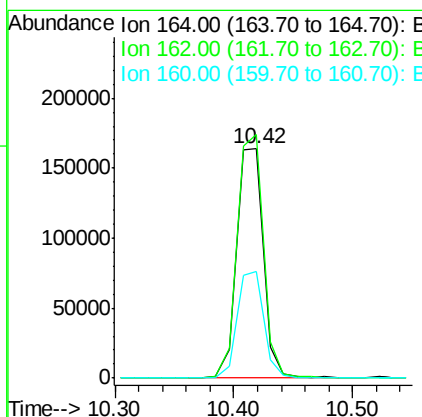
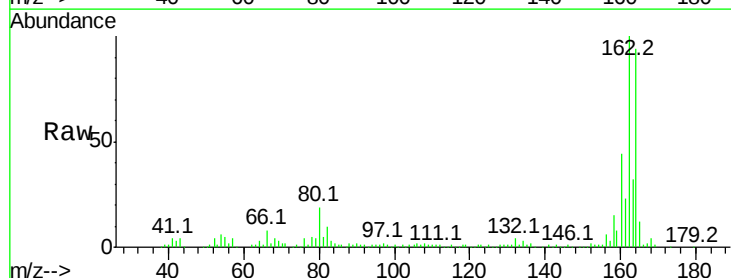
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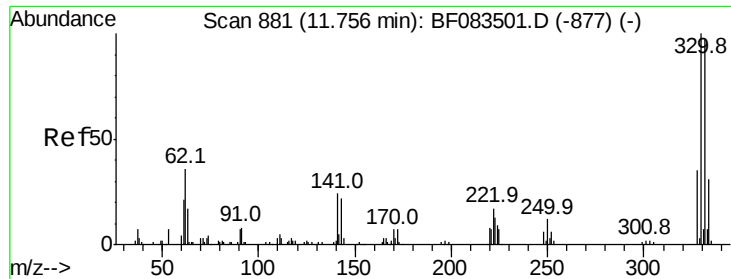
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.42 min Scan# 764
Delta R.T. -0.05 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	259271		
162	106.3		78.8	118.2
160	46.4		33.4	50.2





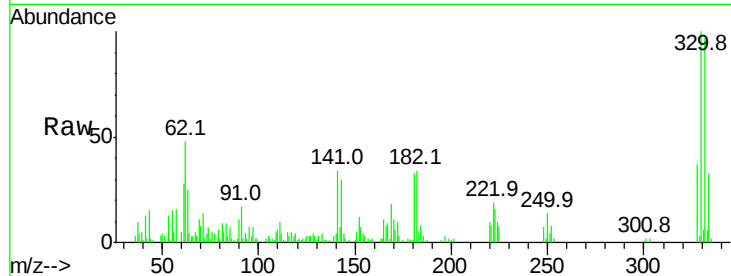
#41
 2,4,6-Tribromophenol
 Concen: 18.83 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

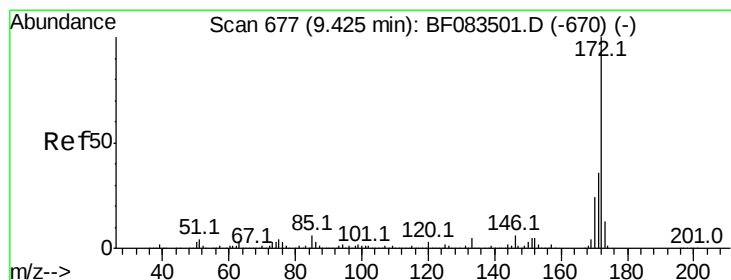
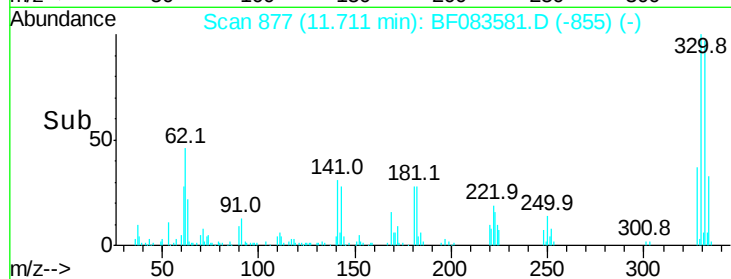
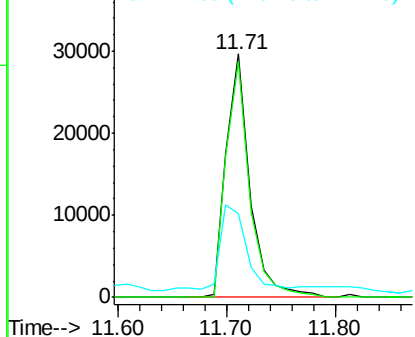
Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	95.7	0.0	0.0#
141	39.7	0.0	0.0#

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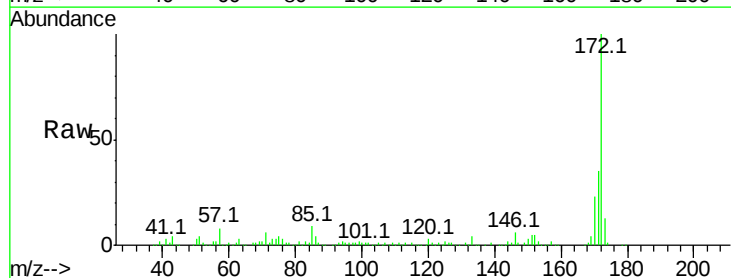


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

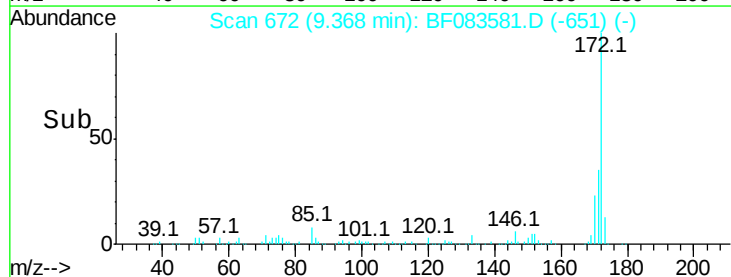
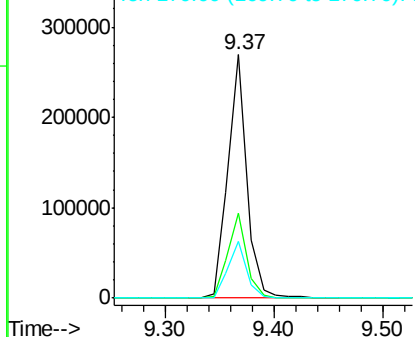


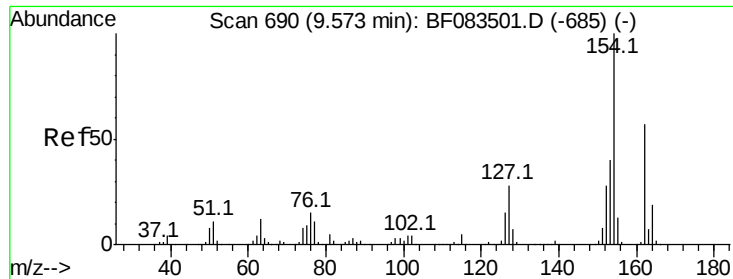
#44
 2-Fluorobiphenyl
 Concen: 16.91 ng
 RT: 9.37 min Scan# 672
 Delta R.T. -0.06 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	34.8	28.6	42.8
170	23.5	19.4	29.0



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





#45

1,1'-Biphenyl

Concen: 7.14 ng

RT: 9.52 min Scan# 685

Delta R.T. -0.06 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

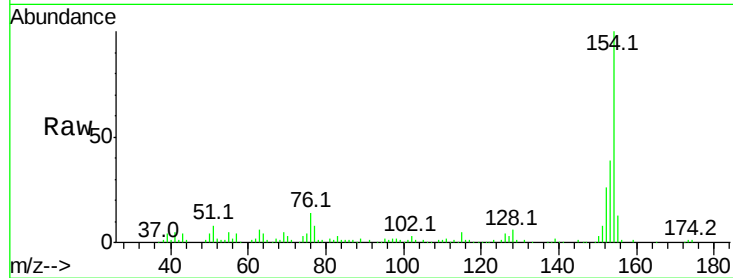
ClientSampleId :

SB-P3WC-10(0-6)DL

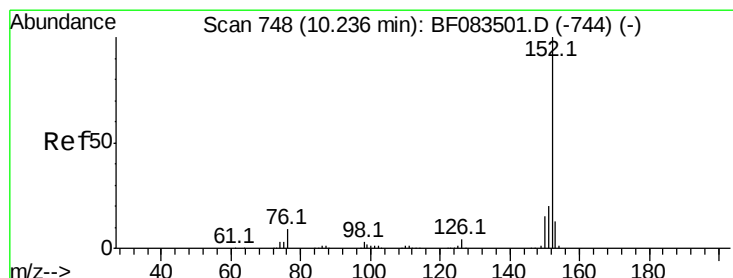
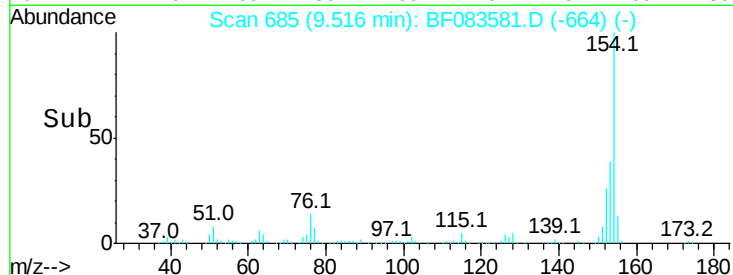
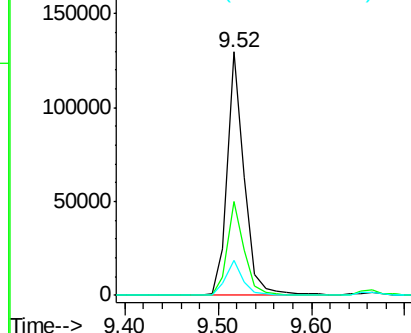
Tot Ion:	154	Resp:	164599
Ion Ratio	Lower	Upper	
154	100		
153	38.6	20.2	60.2
76	14.2	0.0	34.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 32.61 ng

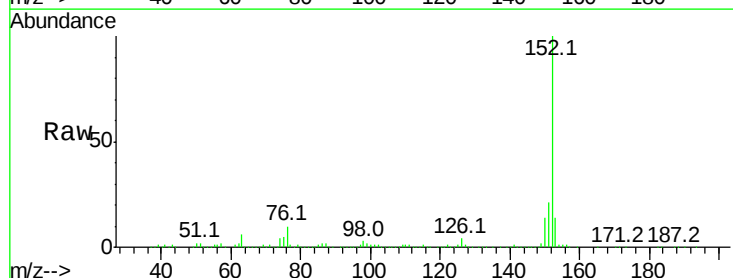
RT: 10.19 min Scan# 744

Delta R.T. -0.05 min

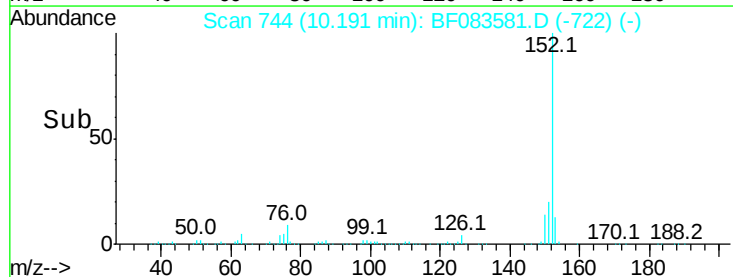
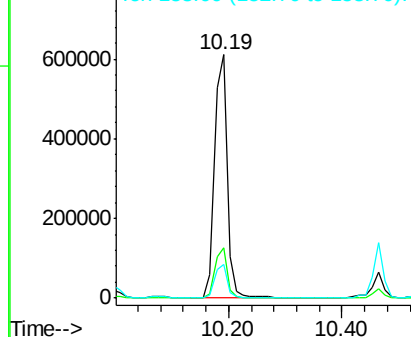
Lab File: BF083581.D

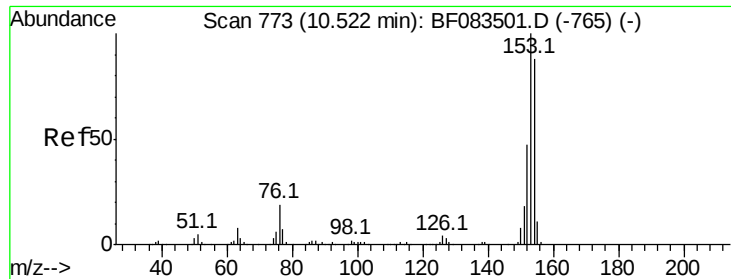
Acq: 8 Dec 2015 4:43

Tgt Ion:	152	Resp:	927080
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	13.6	10.8	16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 9.29 ng

RT: 10.46 min Scan# 768

Delta R.T. -0.06 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

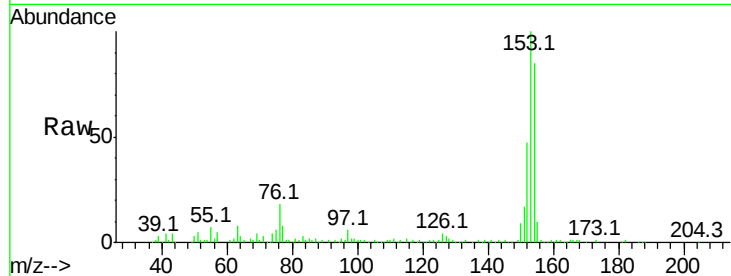
ClientSampleId :

SB-P3WC-10(0-6)DL

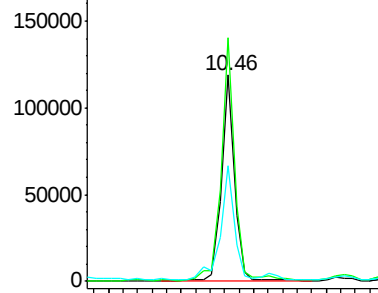
Tot Ion:	154	Resp:	151972
Ion Ratio	Lower	Upper	
154	100		
153	118.0	91.4	137.0
152	56.0	43.4	65.2

Manual Integrations
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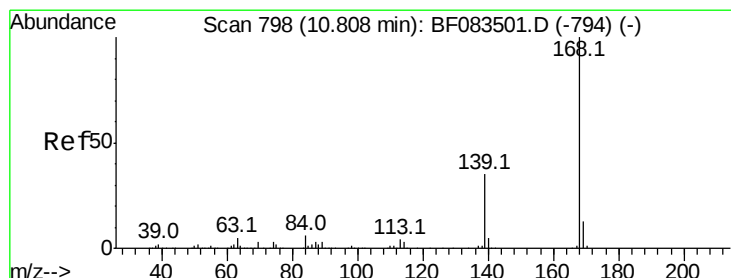
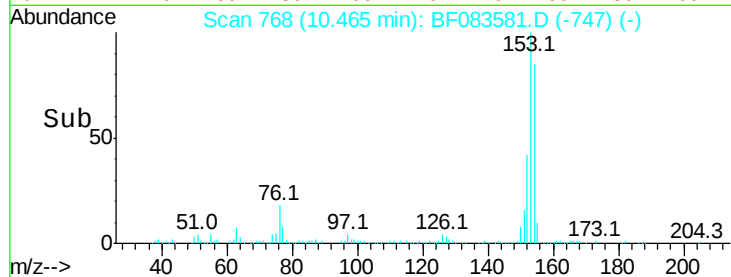
Mmdadoda
12/8/2015 6:15:54 PM



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



Time-->



#54

Dibenzofuran

Concen: 2.31 ng

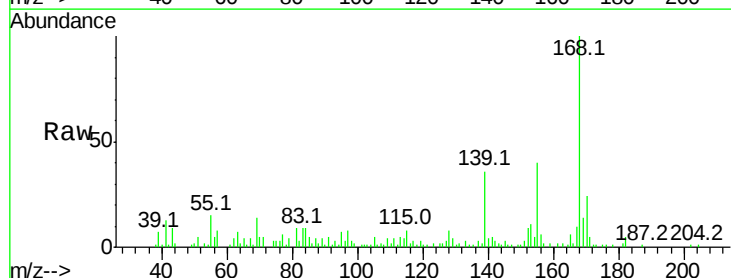
RT: 10.76 min Scan# 794

Delta R.T. -0.05 min

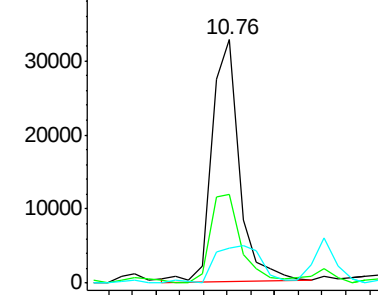
Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

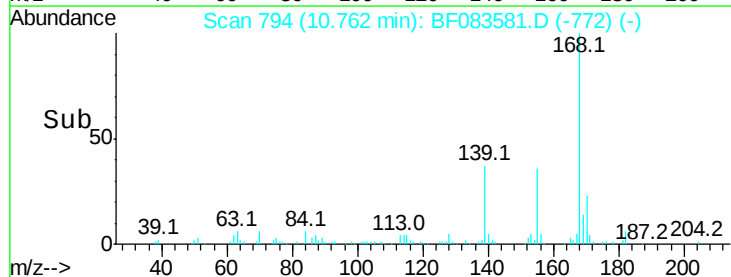
Tgt Ion:	168	Resp:	52449
Ion Ratio	Lower	Upper	
168	100		
139	36.4	28.0	42.0
169	14.1	10.8	16.2

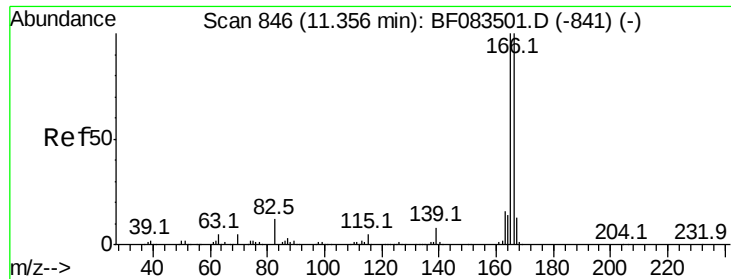


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



Time-->





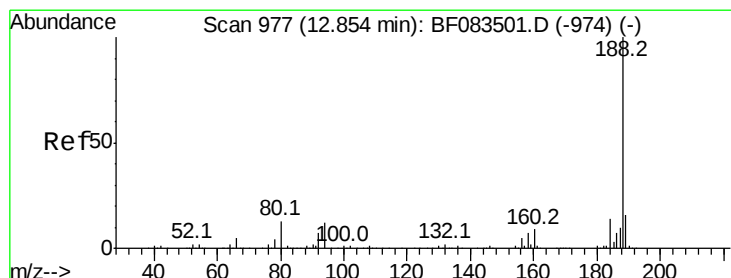
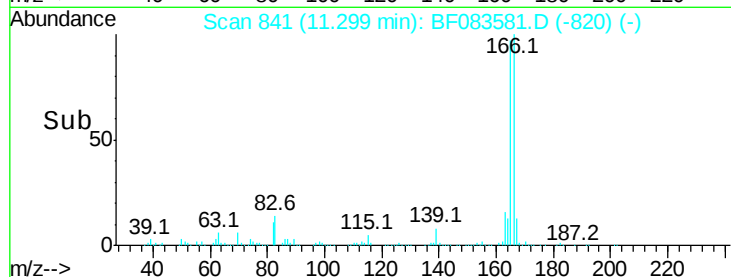
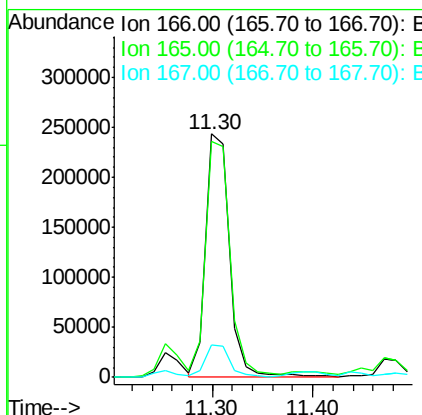
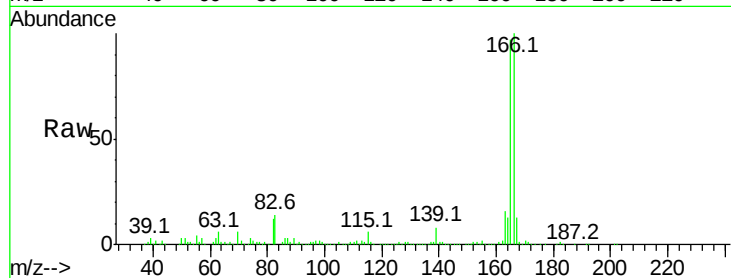
#57
Fluorene
 Concen: 20.10 ng
 RT: 11.30 min Scan# 841
 Delta R.T. -0.06 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.2	80.0	120.0
167	13.4	10.6	16.0

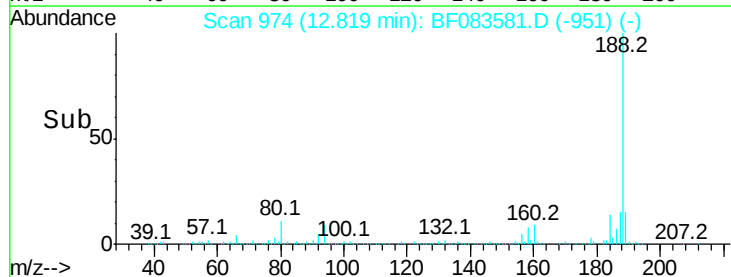
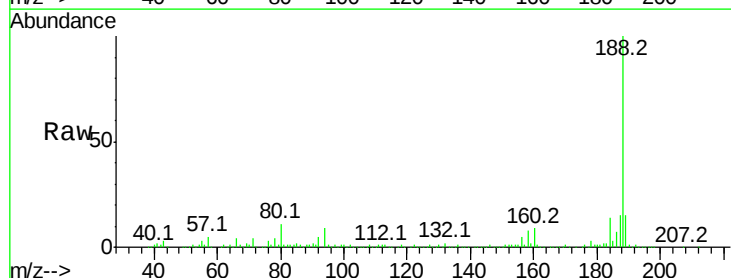
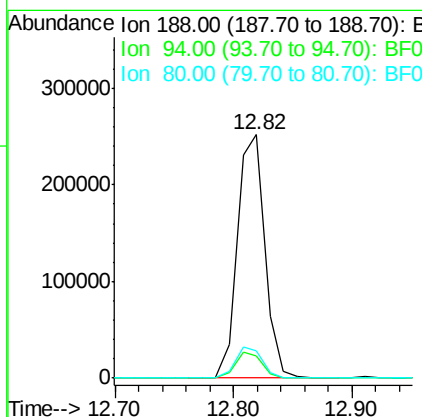
Manual Integrations
 APPROVED

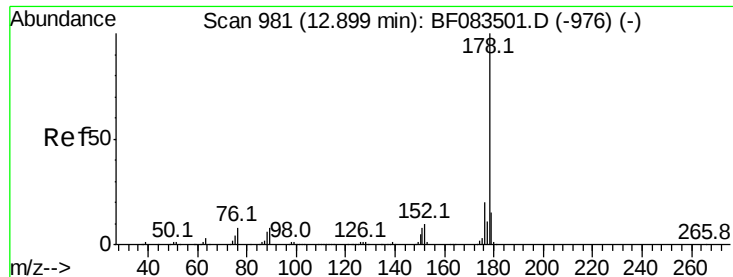
Mmdadoda
 12/8/2015 6:15:54 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.82 min Scan# 974
 Delta R.T. -0.03 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	9.4	14.2#
80	11.0	10.6	16.0





#70

Phenanthrene

Concen: 112.16 ng

RT: 12.87 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:178 Resp: 2655626

Ion Ratio Lower Upper

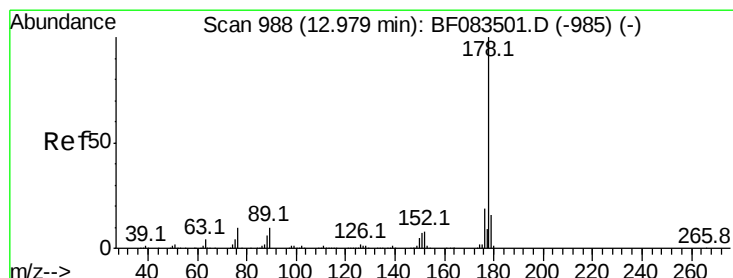
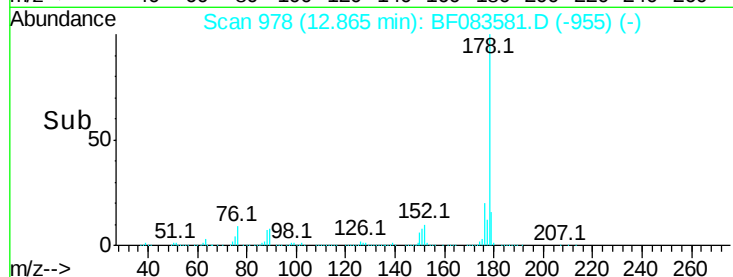
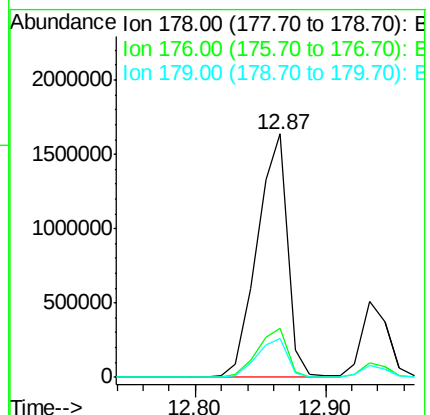
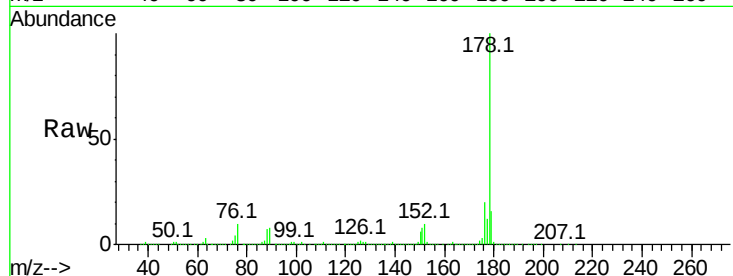
178 100

176 20.3 15.7 23.5

179 15.7 12.2 18.4

Manual Integrations
APPROVED

Mmdadoda
12/8/2015 6:15:54 PM



#71

Anthracene

Concen: 29.81 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

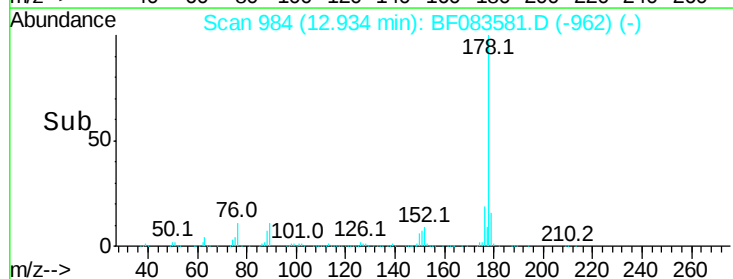
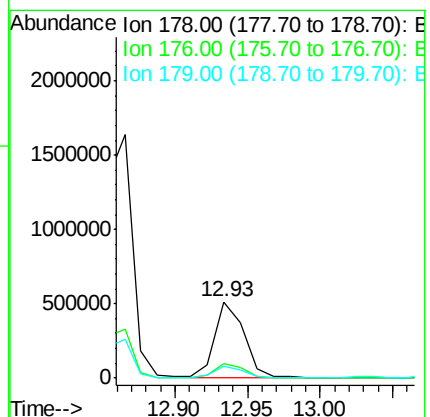
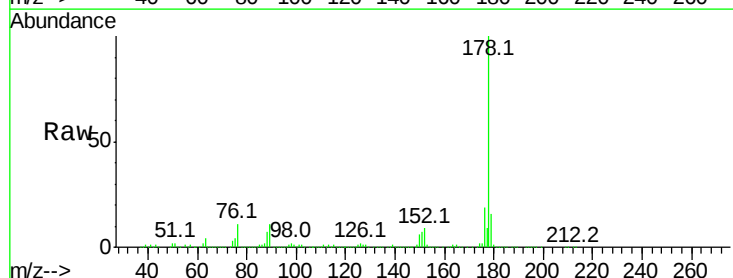
Tgt Ion:178 Resp: 719844

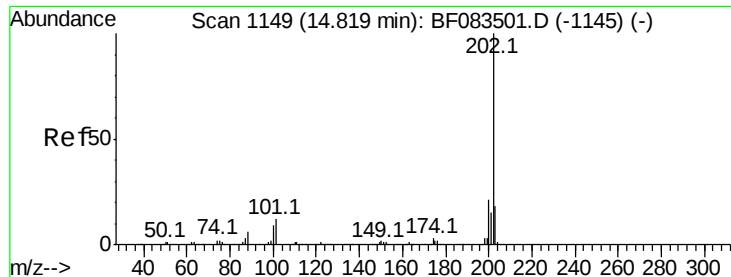
Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.8 12.6 18.8





#74

Fluoranthene

Concen: 80.51 ng

RT: 14.79 min Scan# 1146

Delta R.T. -0.03 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

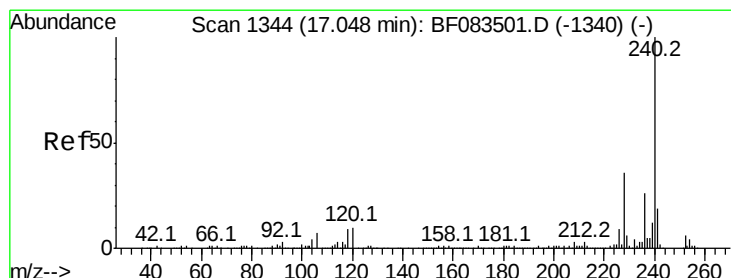
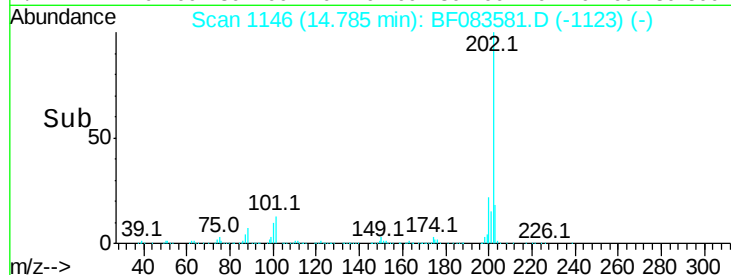
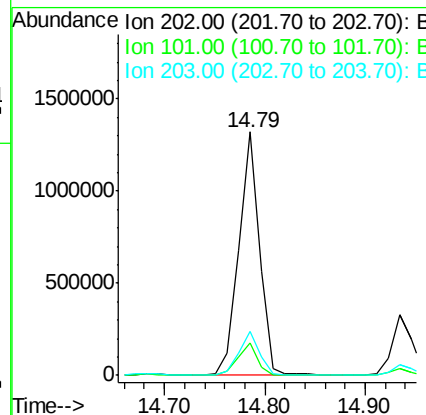
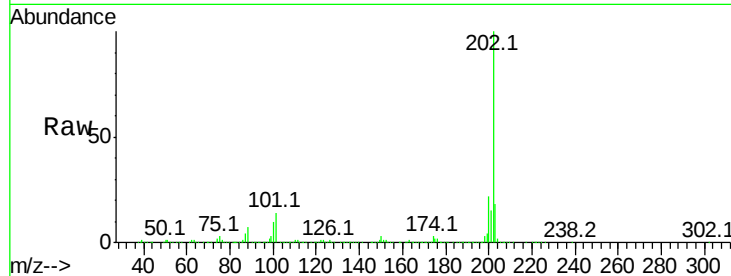
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:	202	Resp:	1889394
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	31.5
203	18.0	0.0	37.6

Manual Integrations
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12/8/2015 6:15:54 PM



#75

Chrysene-d12

Concen: 20.00 ng

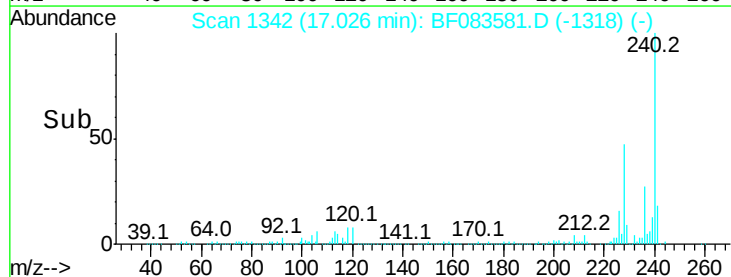
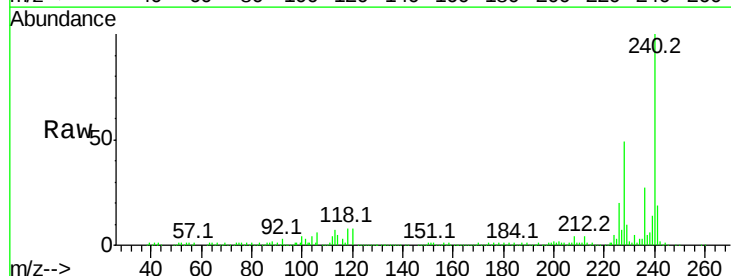
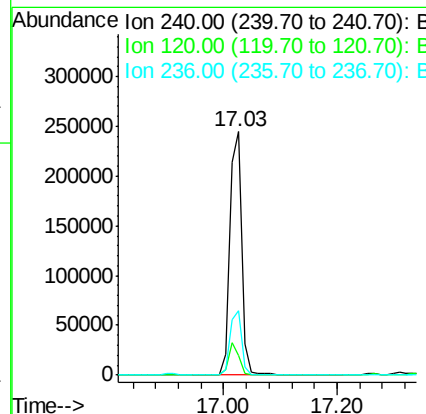
RT: 17.03 min Scan# 1342

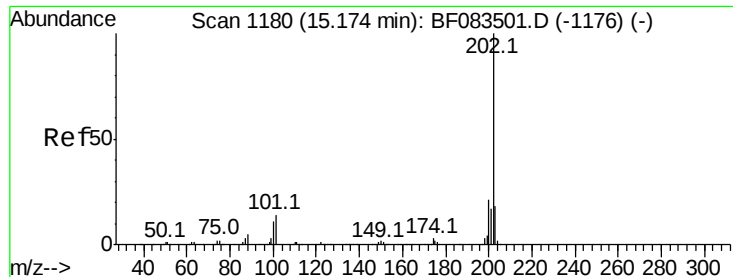
Delta R.T. -0.02 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Tgt Ion:	240	Resp:	363035
Ion Ratio	Lower	Upper	
240	100		
120	8.2	8.1	12.1
236	26.6	20.8	31.2





#77

Pvrene

Concen: 98.11 ng

RT: 15.15 min Scan# 1178

Delta R.T. -0.02 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:202 Resp: 2664518

Ion Ratio Lower Upper

202 100

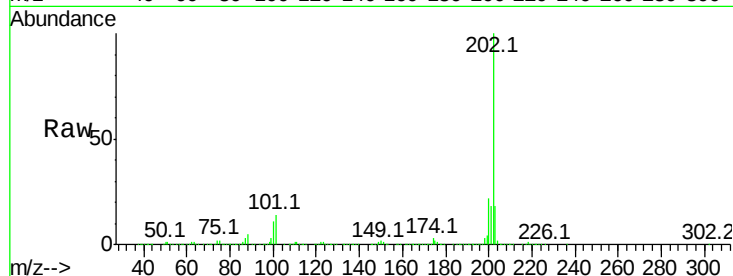
200 21.6 16.7 25.1

203 18.1 14.3 21.5

Manual Integrations
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Mmdadoda

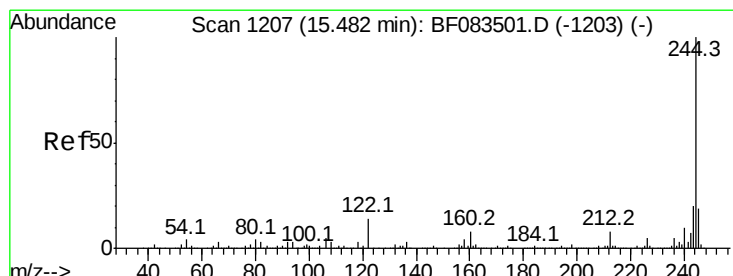
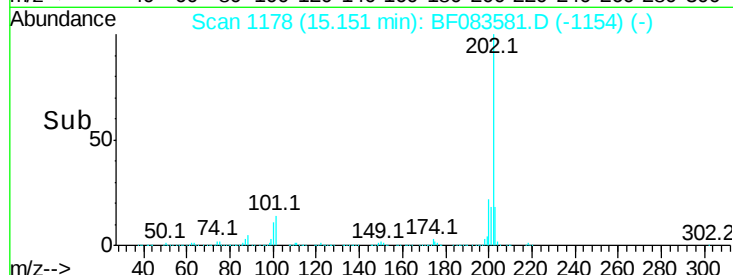
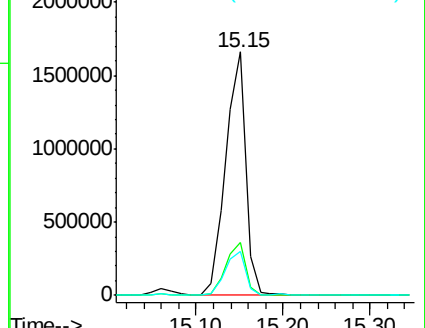
12/8/2015 6:15:54 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 15.03 ng

RT: 15.44 min Scan# 1203

Delta R.T. -0.05 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

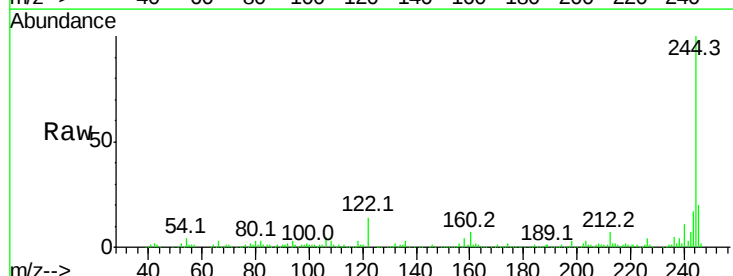
Tgt Ion:244 Resp: 245226

Ion Ratio Lower Upper

244 100

212 7.2 6.1 9.1

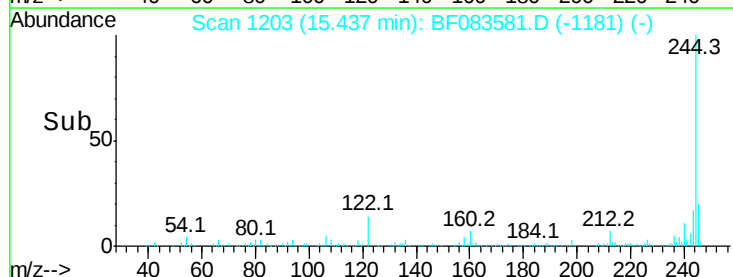
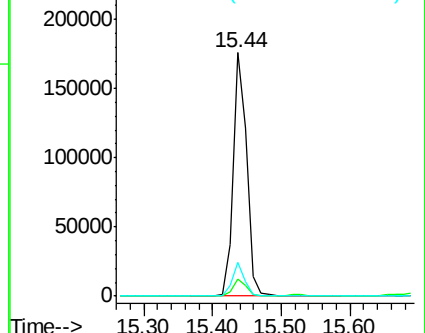
122 13.9 11.0 16.6

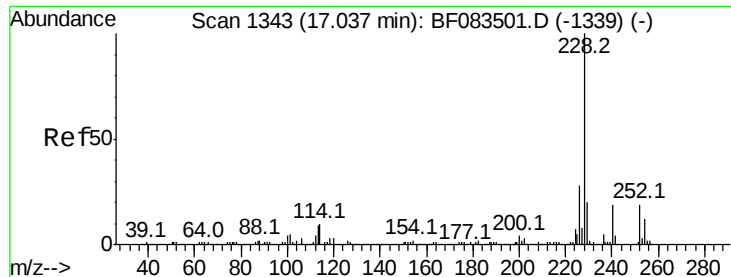


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





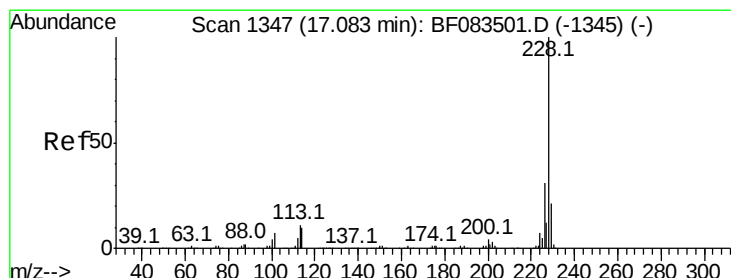
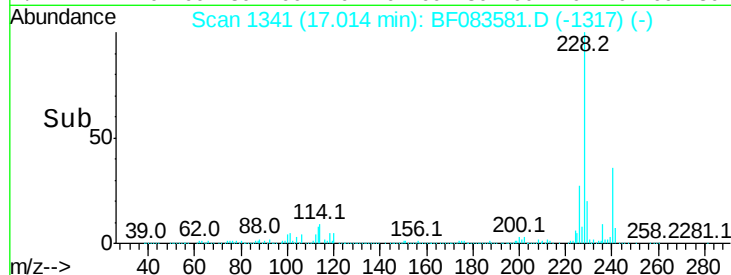
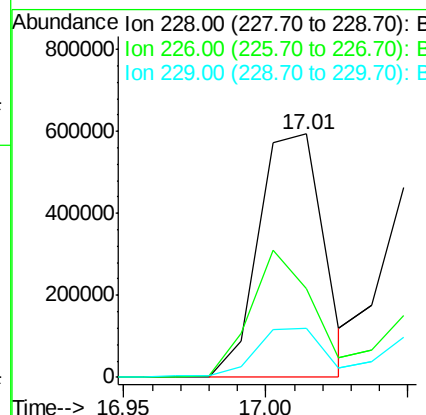
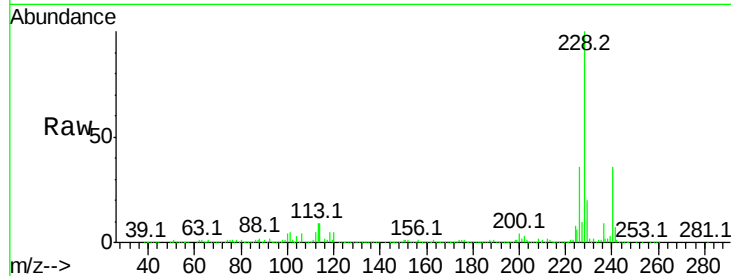
#80
Benzo(a)anthracene
Concen: 44.34 ng m
RT: 17.01 min Scan# 1341
Delta R.T. -0.02 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.3	22.3	33.5#
229	20.4	15.7	23.5

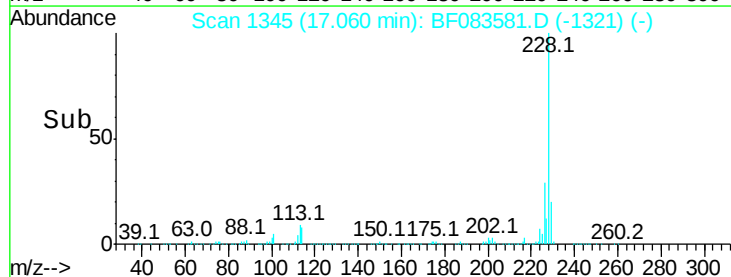
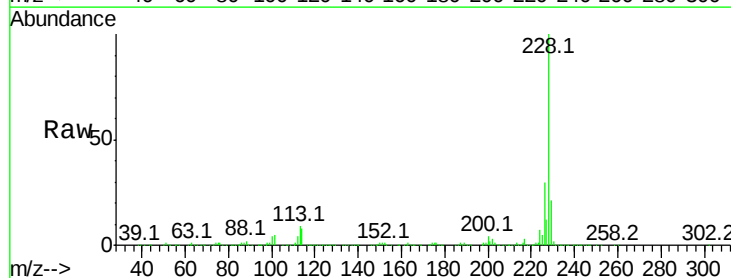
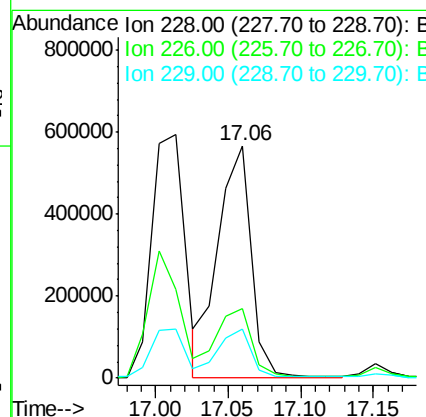
Manual Integrations
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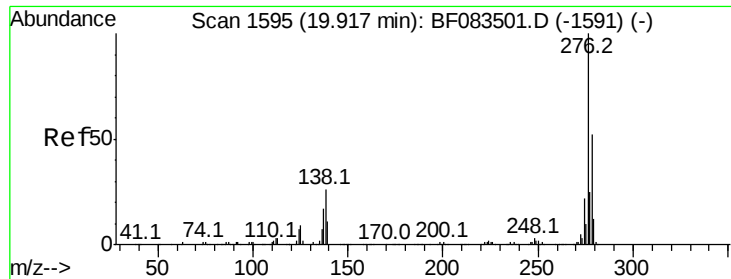
Mmdadoda
12/8/2015 6:15:54 PM



#82
Chrysene
Concen: 42.38 ng
RT: 17.06 min Scan# 1345
Delta R.T. -0.02 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.7	37.1
229	20.9	16.3	24.5





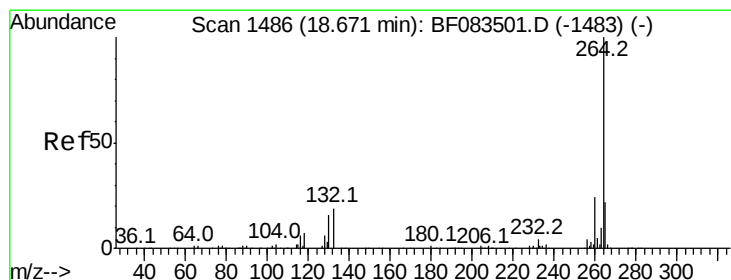
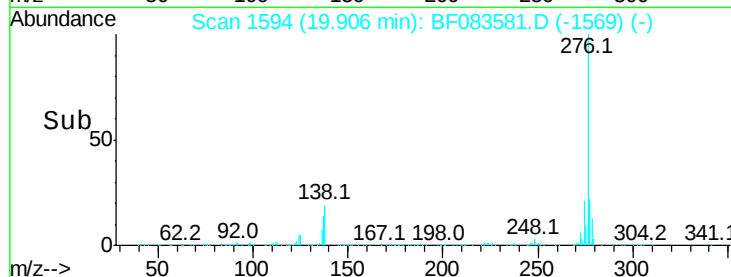
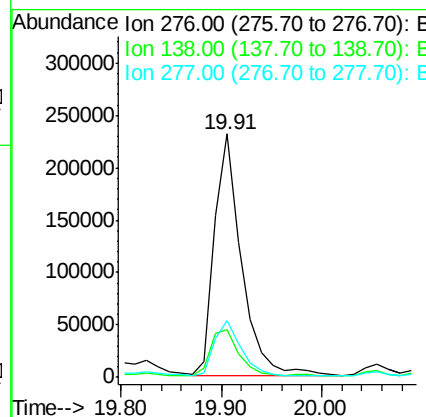
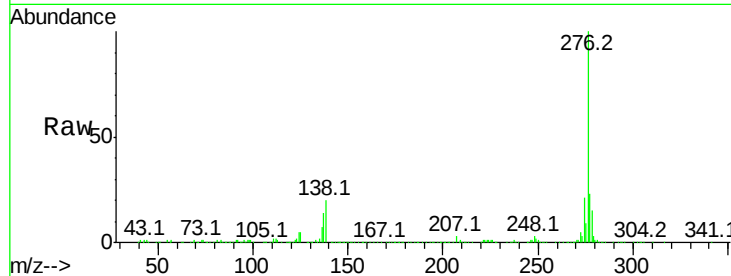
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 23.54 ng
 RT: 19.91 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	20.4	0.0	0.0#
277	23.5	0.0	0.0#

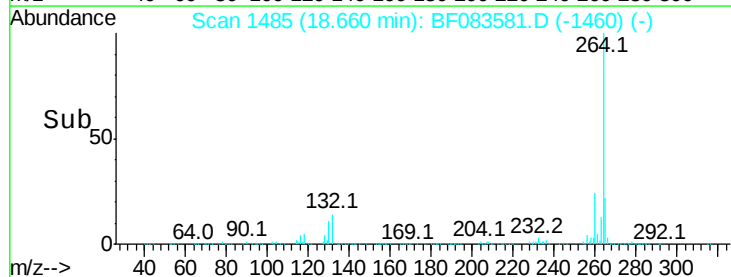
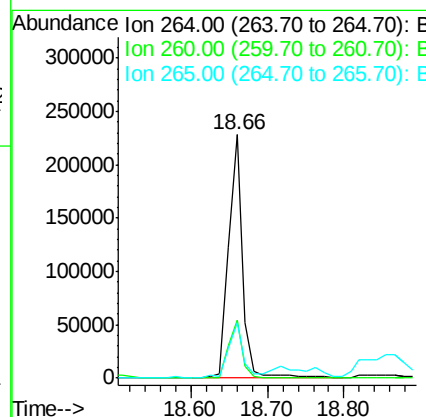
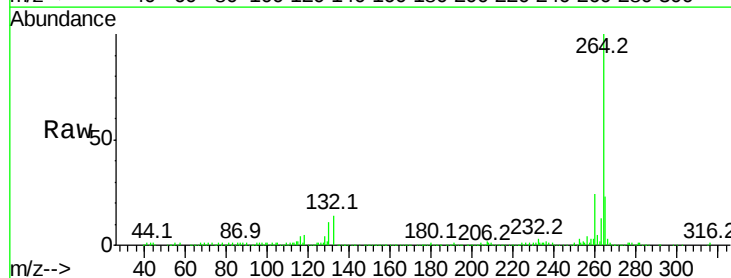
Manual Integrations
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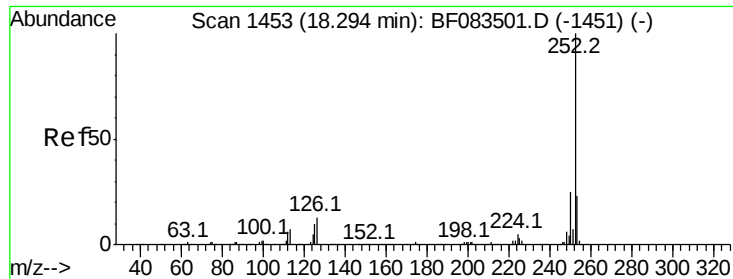
Mmdadoda
 12/8/2015 6:15:54 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.66 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.8	19.4	29.0
265	22.6	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 51.55 ng m

RT: 18.28 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Instrument :

BNA_F

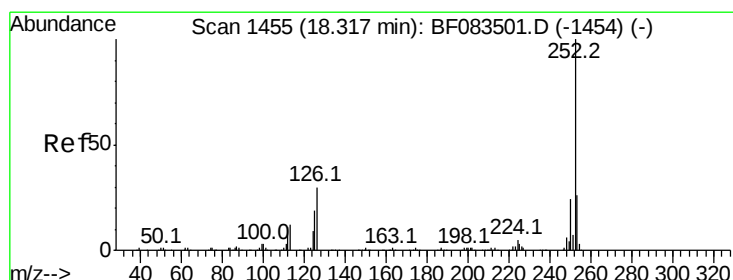
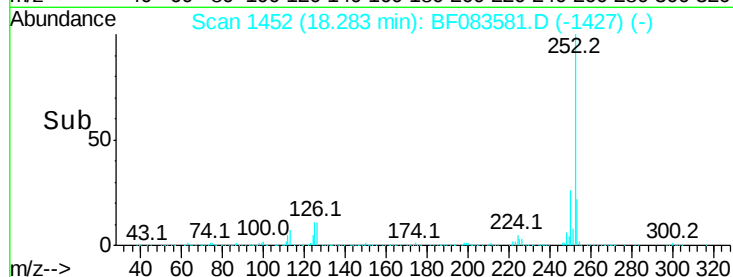
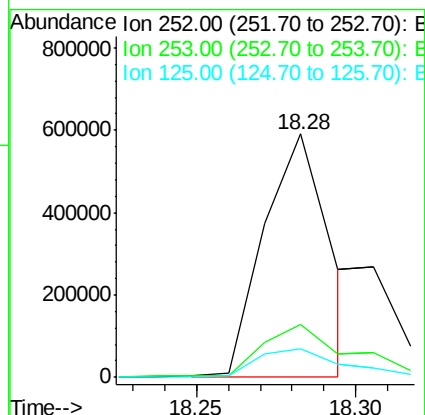
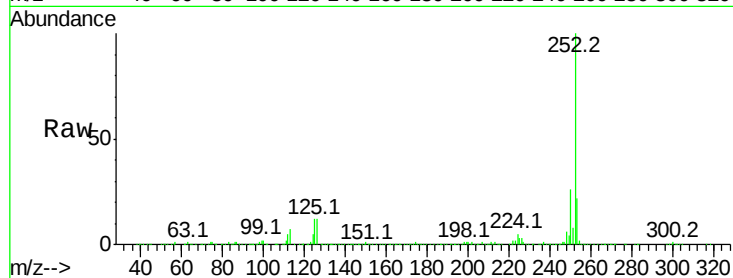
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:	252	Resp:	848776
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.2	27.4
125	11.6	8.2	12.4

Manual Integrations
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Mmdadoda
12/8/2015 6:15:54 PM



#88

Benzo(k)fluoranthene

Concen: 14.74 ng m

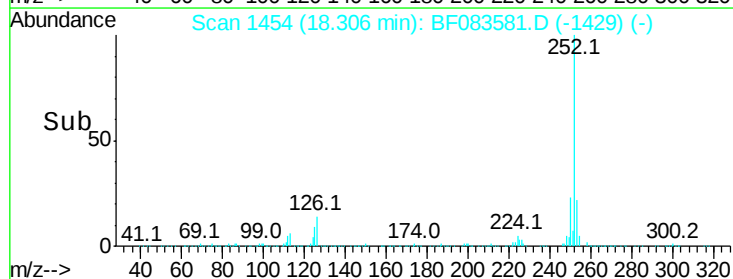
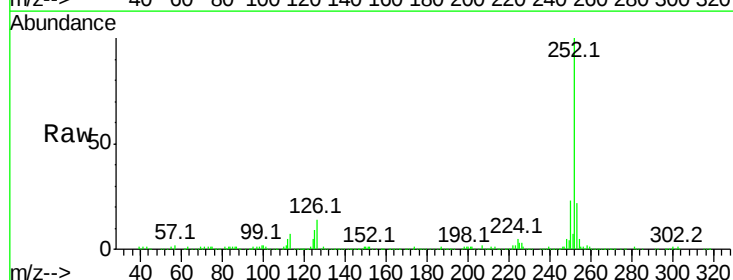
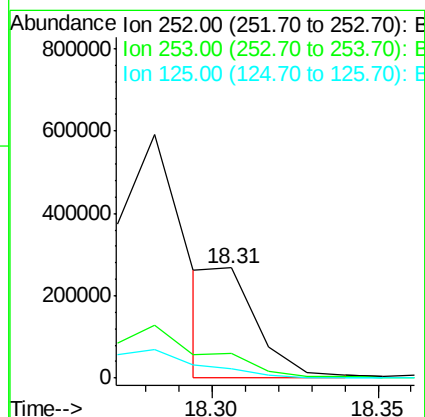
RT: 18.31 min Scan# 1454

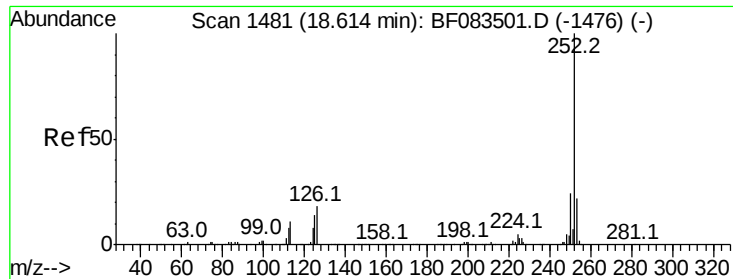
Delta R.T. -0.01 min

Lab File: BF083581.D

Acq: 8 Dec 2015 4:43

Tgt Ion:	252	Resp:	248638
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.6	27.8
125	8.9	11.5	17.3#





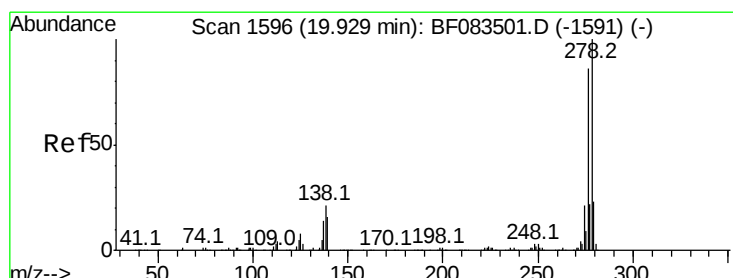
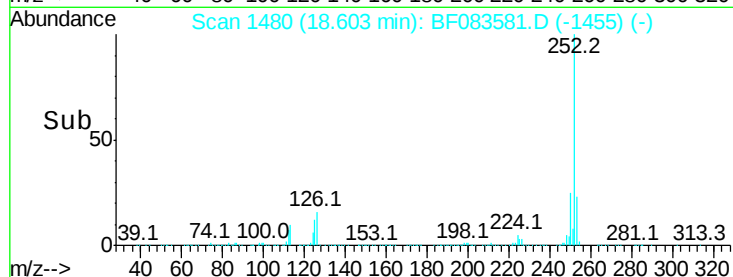
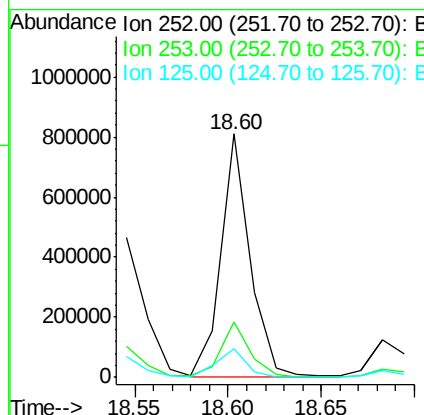
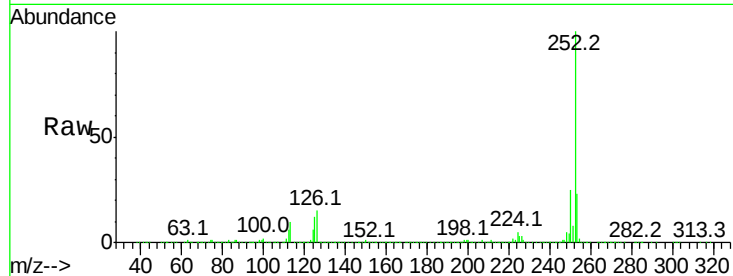
#89
Benzo(a)pyrene
Concen: 55.06 ng
RT: 18.60 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	11.9	11.0	16.6

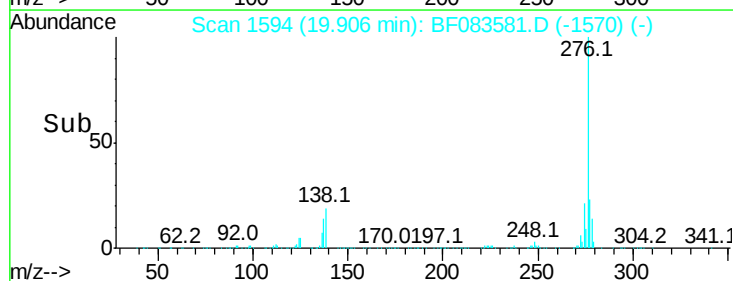
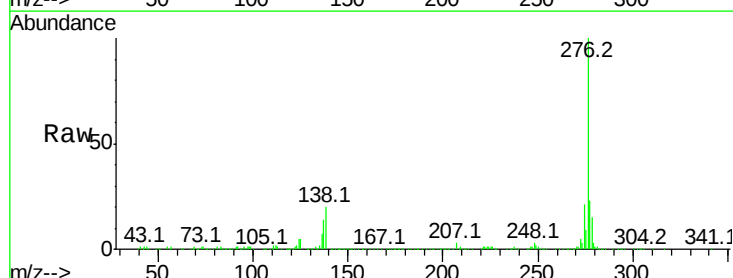
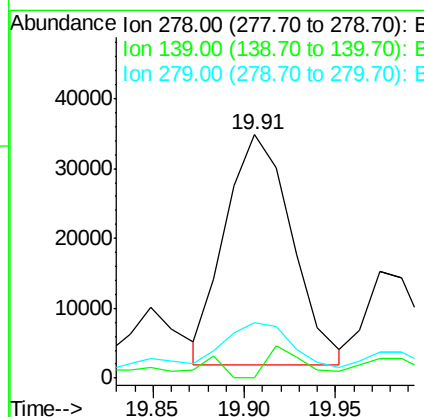
Manual Integrations
APPROVED

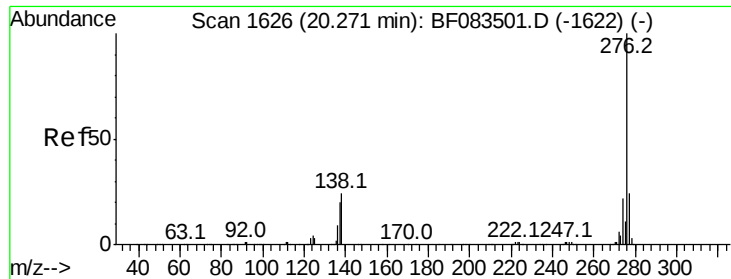
Mmdadoda
12/8/2015 6:15:54 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.45 ng m
RT: 19.91 min Scan# 1594
Delta R.T. -0.02 min
Lab File: BF083581.D
Acq: 8 Dec 2015 4:43

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2#
279	22.9	18.6	28.0





#91
 Benzo(a,h,i)perylene
 Concen: 32.36 ng
 RT: 20.26 min Scan# 1625
 Delta R.T. -0.01 min
 Lab File: BF083581.D
 Acq: 8 Dec 2015 4:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	23.2	19.2	28.8
138	21.6	19.5	29.3

Manual Integrations
 APPROVED

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 12/8/2015 6:15:54 PM

