

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090617\
 Data File : BF098279.D
 Acq On : 6 Sep 2017 18:18
 Operator : SJ/JU
 Sample : I5076-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-083117

Manual Integrations
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Sohil
 9/7/2017 5:44:27 PM

Quant Time: Sep 07 13:46:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 05 17:28:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	113531	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	461409	20.00	ng	-0.01
38) Acenaphthene-d10	9.73	164	202143	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	352957	20.00	ng	-0.01
75) Chrysene-d12	13.85	240	228912	20.00	ng	-0.01
86) Perylene-d12	15.26	264	218746	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	1146190	153.57	ng	0.00
7) Phenol-d6	6.35	99	1539190	151.78	ng	0.00
23) Nitrobenzene-d5	7.26	82	975126	114.81	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	283631	161.71	ng	-0.01
44) 2-Fluorobiphenyl	9.06	172	1374712	99.92	ng	-0.01
78) Terphenyl-d14	12.80	244	989666	90.16	ng	-0.01
Target Compounds						
31) Naphthalene	8.00	128	185484	7.743	ng	99
37) 2-Methylnaphthalene	8.69	142	99573	6.780	ng	98
48) Acenaphthylene	9.59	152	109668	5.127	ng	99
49) Dimethylphthalate	9.45	163	127390	8.621	ng	99
51) Acenaphthene	9.76	154	67289	4.988	ng	100
54) Dibenzofuran	9.93	168	74840	4.140	ng	# 95
57) Fluorene	10.27	166	141518	10.125	ng	94
70) Phenanthrene	11.24	178	884760	47.041	ng	99
71) Anthracene	11.29	178	287018	15.046	ng	99
72) Carbazole	11.44	167	53277	2.942	ng	99
74) Fluoranthene	12.43	202	1393984	71.008	ng	98
77) Pyrene	12.66	202	1276125	68.160	ng	99
80) Benzo(a)anthracene	13.84	228	708632	51.651	ng	96
82) Chrysene	13.87	228	555245	40.684	ng	97
85) Indeno(1,2,3-cd)pyrene	16.62	276	303505	30.230	ng	# 89
87) Benzo(b)fluoranthene	14.86	252	804588m	58.353	ng	
88) Benzo(k)fluoranthene	14.89	252	192479m	14.859	ng	
89) Benzo(a)pyrene	15.20	252	528144	43.268	ng	99
90) Dibenzo(a,h)anthracene	16.62	278	77965m	7.846	ng	
91) Benzo(a,h,i)perylene	17.03	276	268198	25.866	ng	94

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

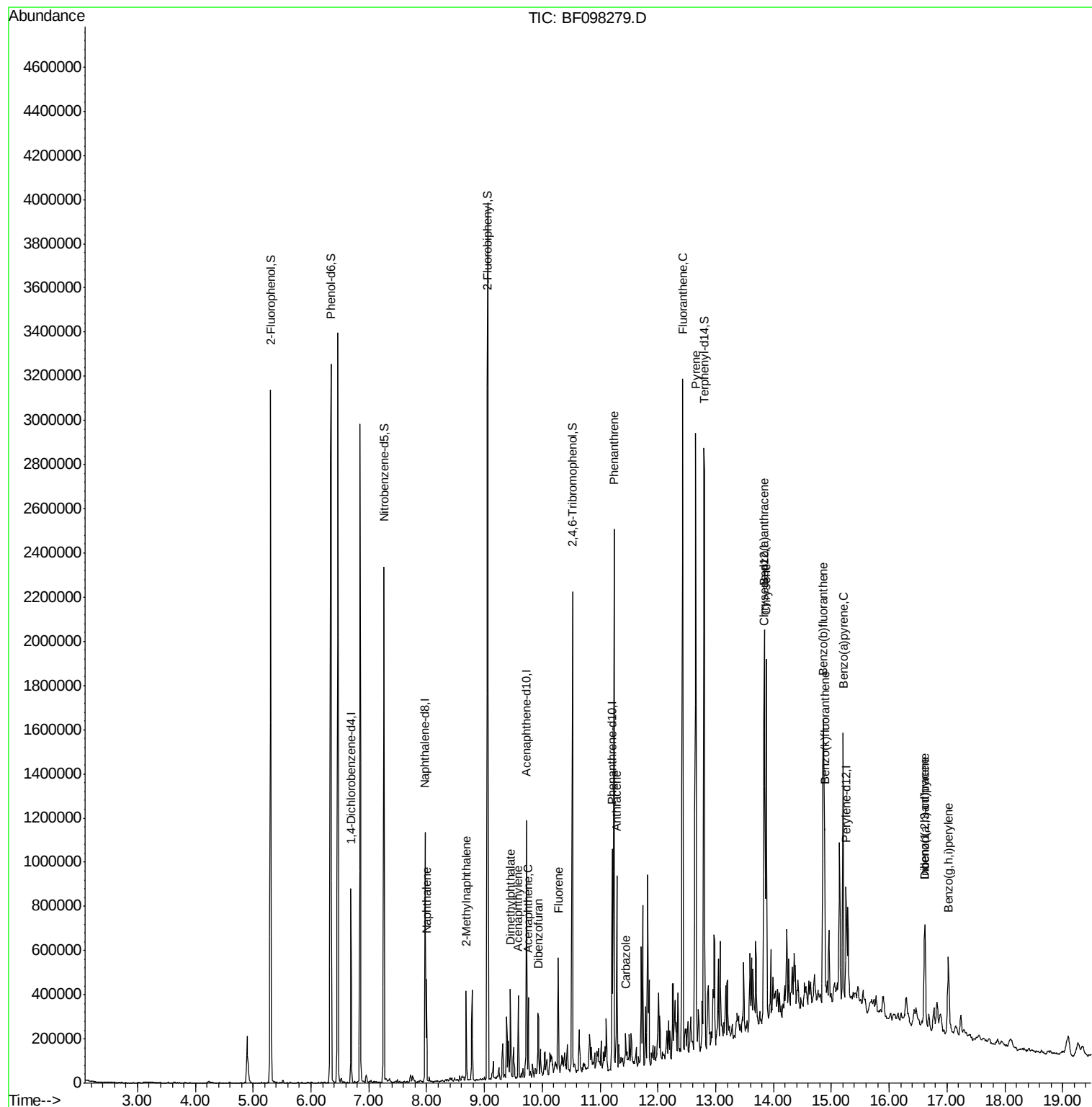
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090617\
Data File : BF098279.D
Acq On : 6 Sep 2017 18:18
Operator : SJ/JU
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ALS Vial : 7 Sample Multiplier: 1

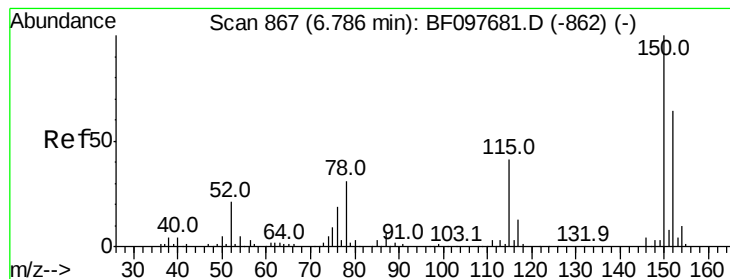
Instrument :
BNA_F
ClientSampleId :
OR-02-083117

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Quant Time: Sep 07 13:46:21 2017
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#1

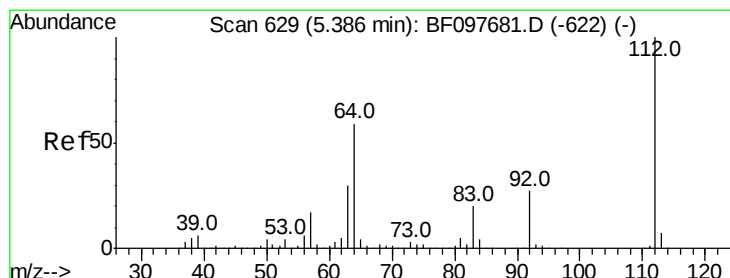
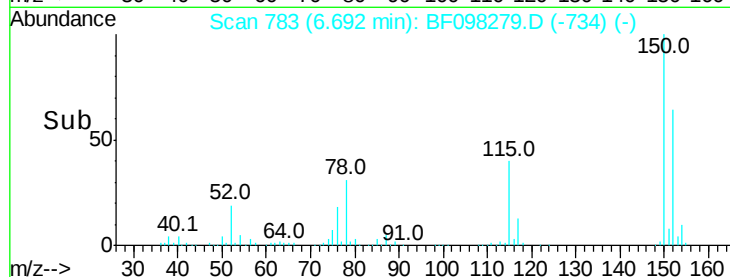
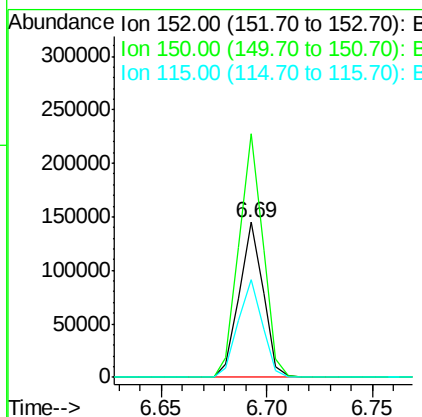
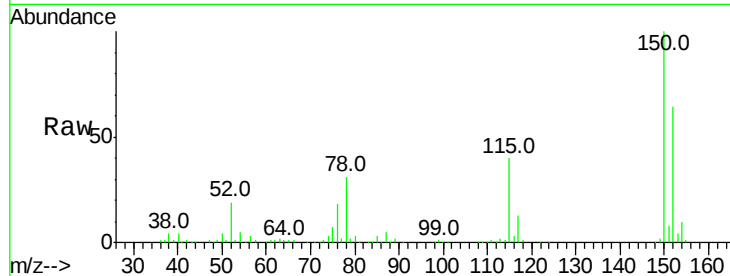
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Instrument :
BNA_F
ClientSampleId :
OR-02-083117

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	63.3	52.2	78.2

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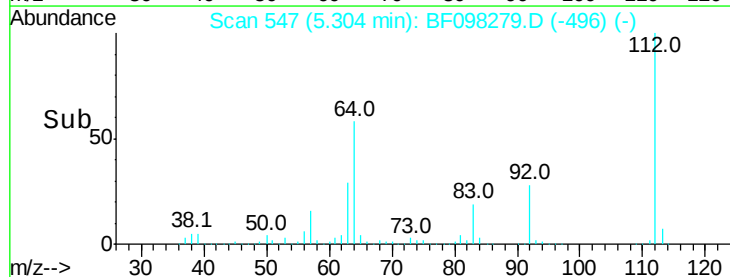
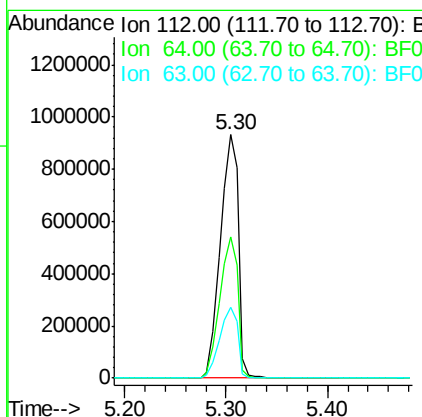
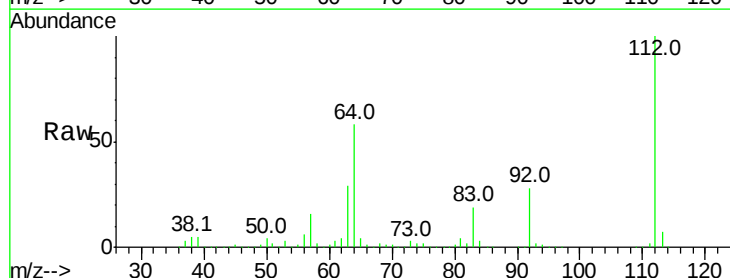
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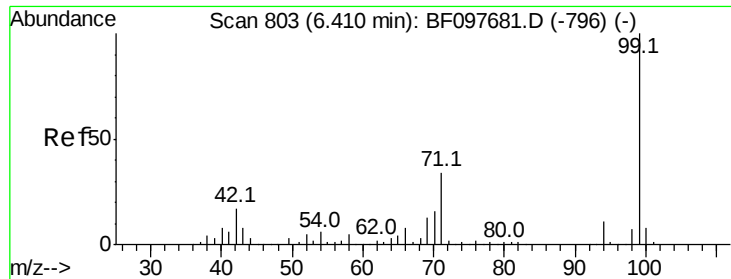


#5

2-Fluorophenol
Concen: 153.565 ng
RT: 5.30 min Scan# 547
Delta R.T. 0.00 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	46.0	69.0
63	29.0	23.4	35.0





#7

Phenol-d6

Concen: 151.775 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Instrument :

BNA_F

ClientSampleId :

OR-02-083117

Tot Ion: 99 Resp: 1539190

Ion Ratio Lower Upper

99 100

42 14.1 13.5 20.3

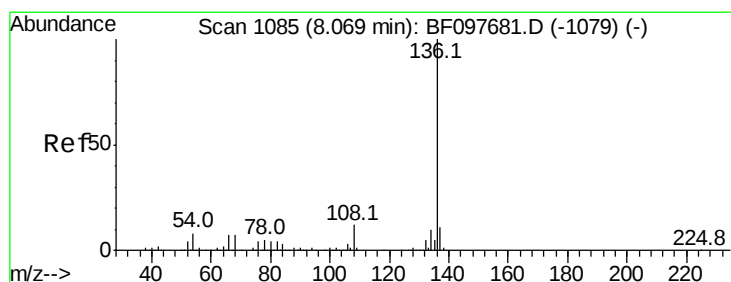
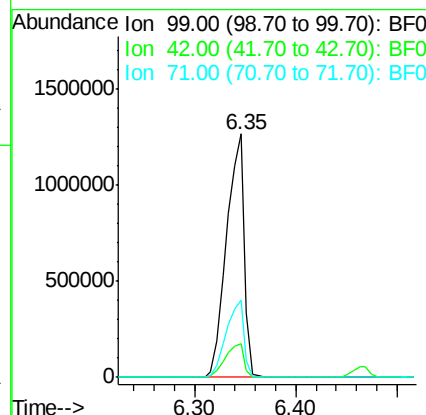
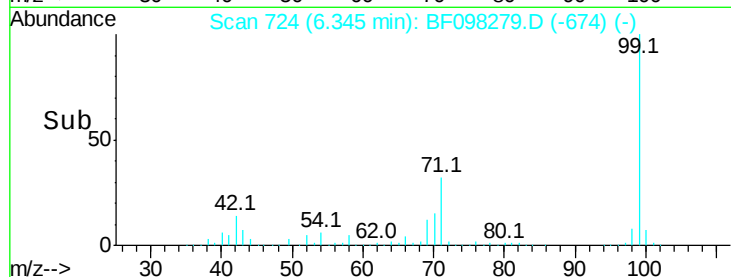
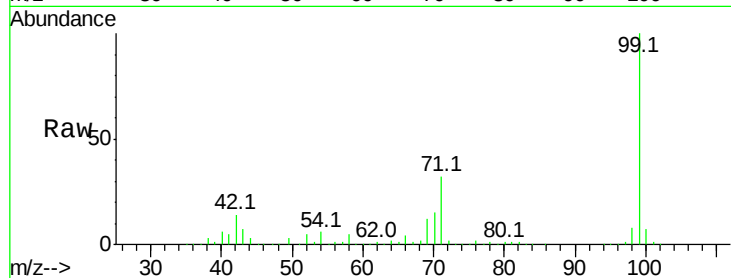
71 31.9 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Tgt Ion: 136 Resp: 461409

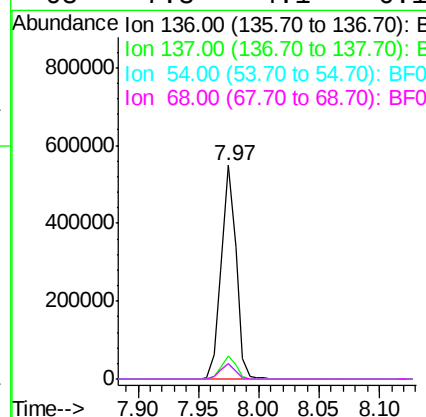
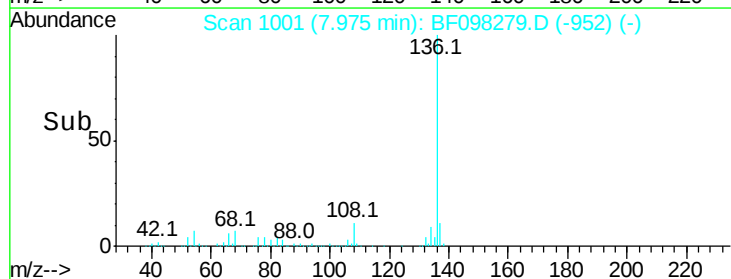
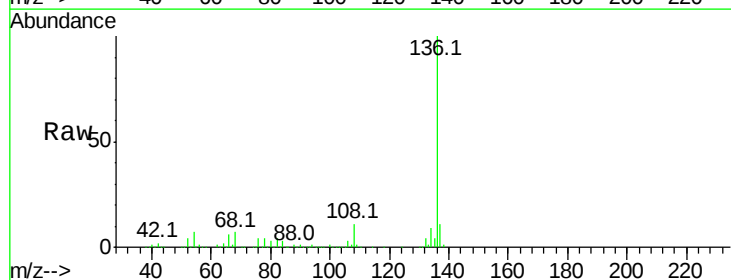
Ion Ratio Lower Upper

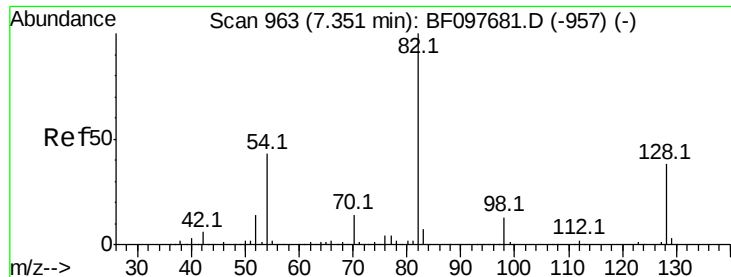
136 100

137 10.8 8.5 12.7

54 7.3 4.9 7.3#

68 7.3 4.1 6.1#





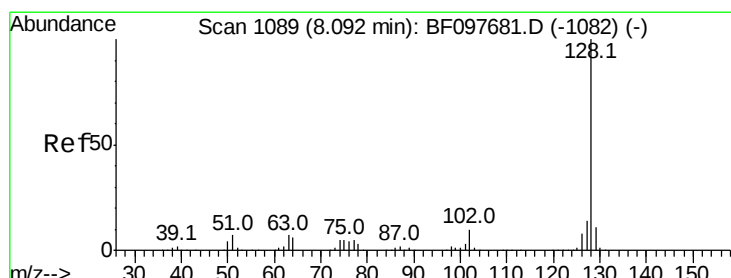
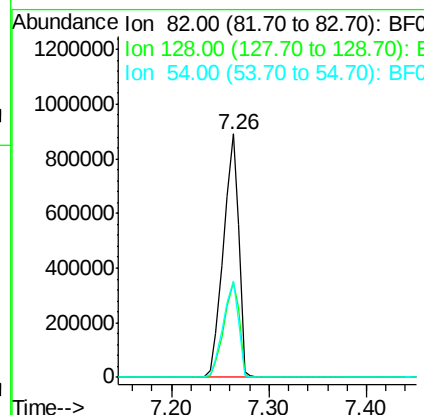
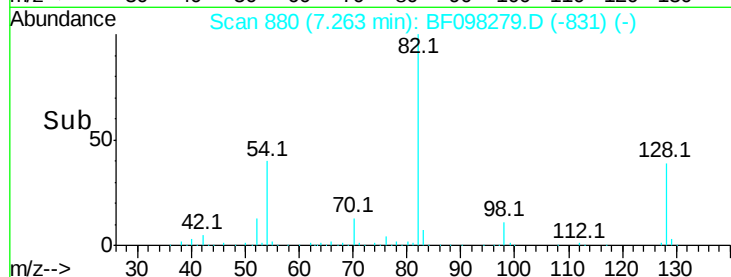
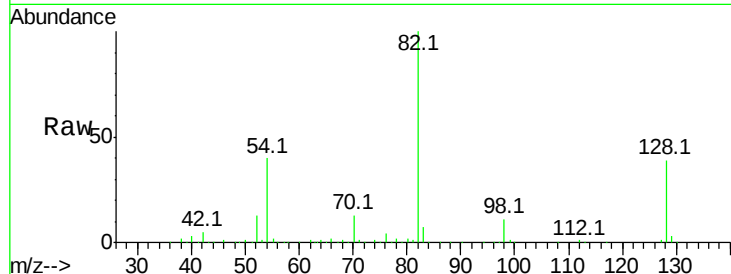
#23
 Nitrobenzene-d5
 Concen: 114.808 ng
 RT: 7.26 min Scan# 880
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Instrument :
 BNA_F
 ClientSampled :
 OR-02-083117

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	39.0	34.0	51.0	
54	39.8	42.2	63.2	

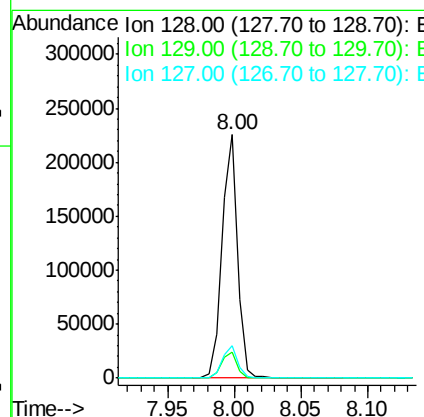
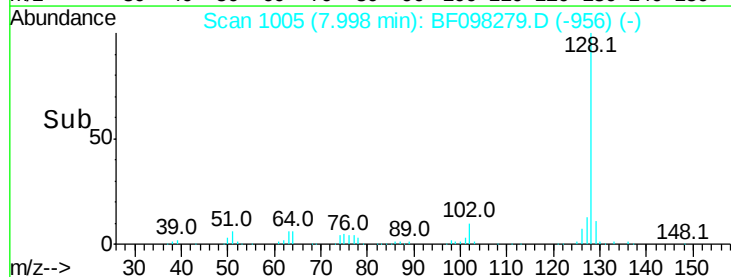
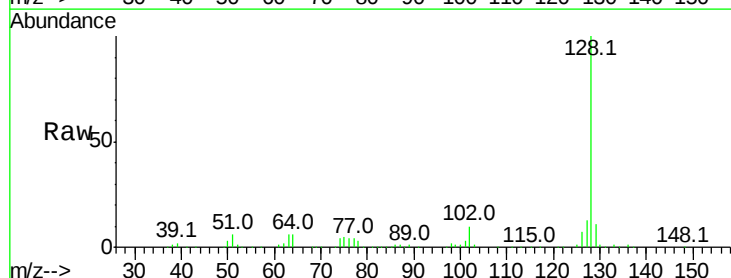
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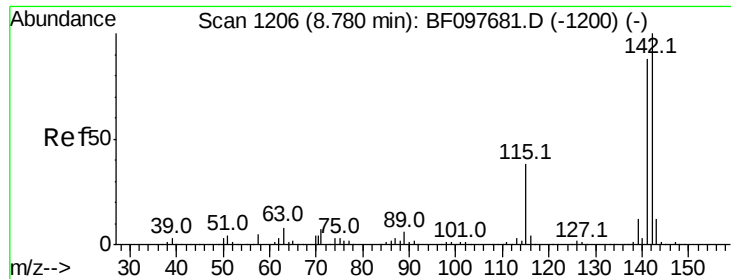
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#31
 Naphthalene
 Concen: 7.743 ng
 RT: 8.00 min Scan# 1005
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.7	9.0	13.6	
127	13.1	10.8	16.2	





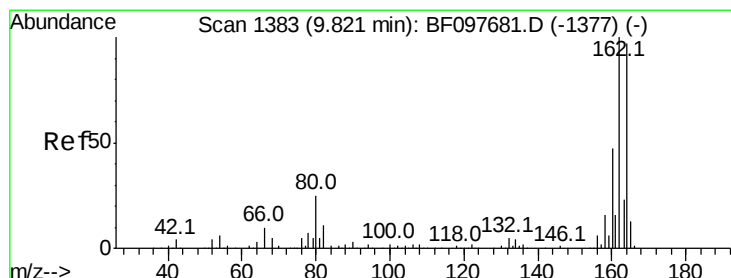
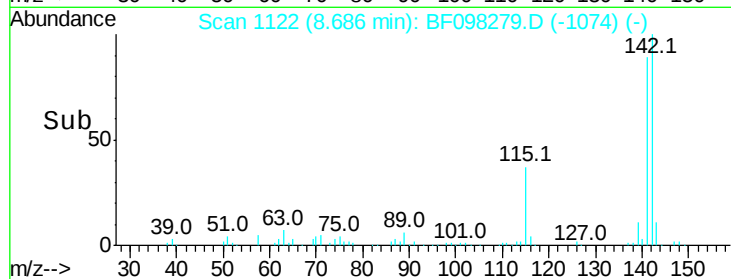
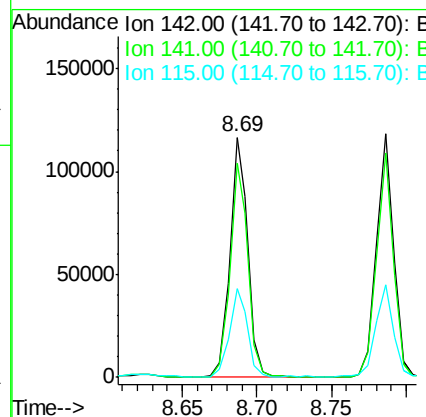
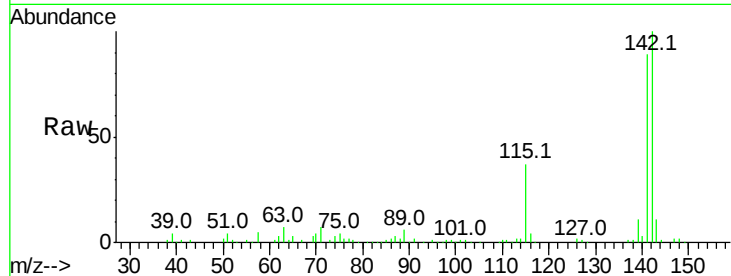
#37
 2-Methylnaphthalene
 Concen: 6.780 ng
 RT: 8.69 min Scan# 1122
 Delta R.T. -0.02 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-083117

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.3	106.9
115	37.0	27.1	40.7

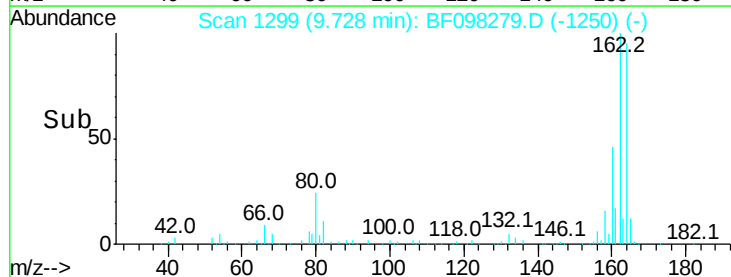
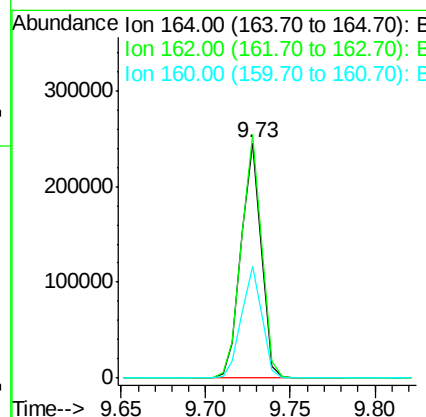
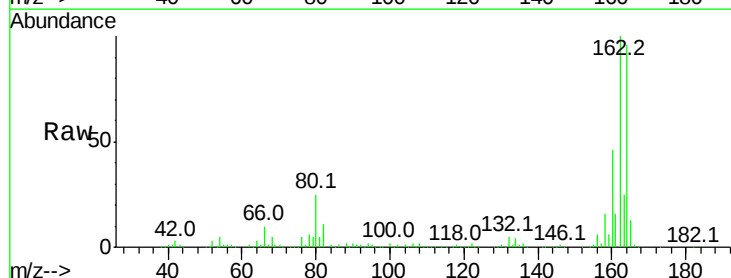
Manual Integrations
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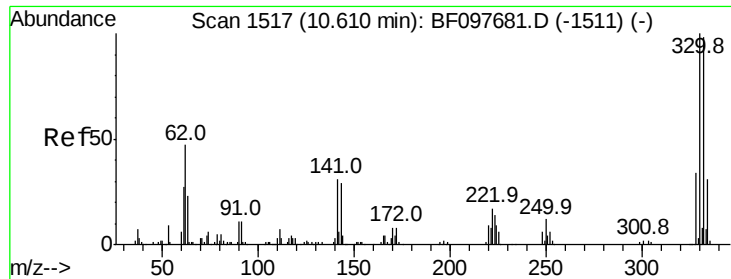
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.73 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.6	123.8
160	47.5	36.2	54.2





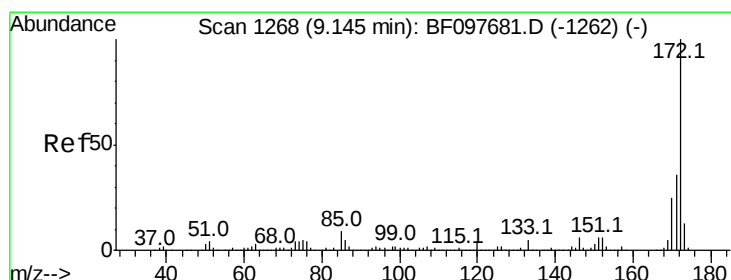
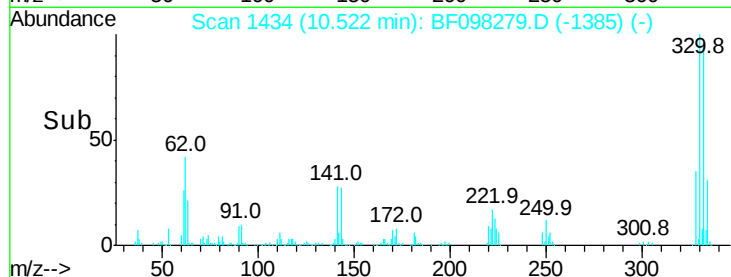
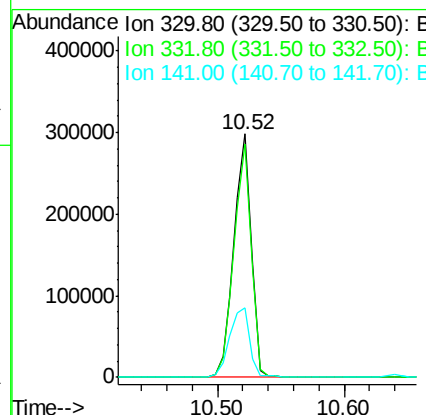
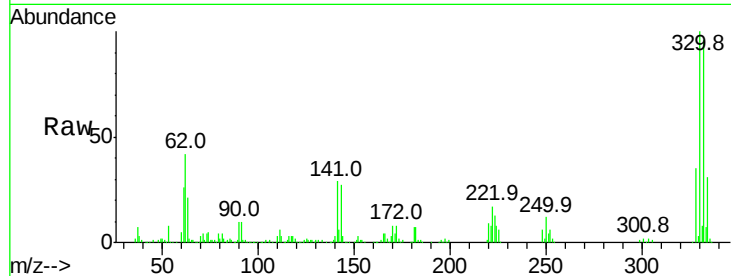
#41
 2,4,6-Tribromophenol
 Concen: 161.713 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-083117

Tot Ion	Ratio	Resp	Lower	Upper
330	100	283631		
332	95.9	76.6	115.0	
141	32.6	31.4	47.2	

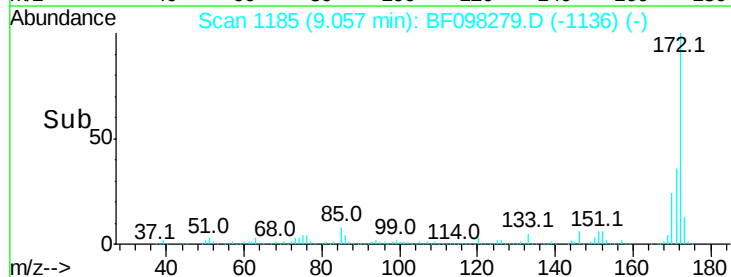
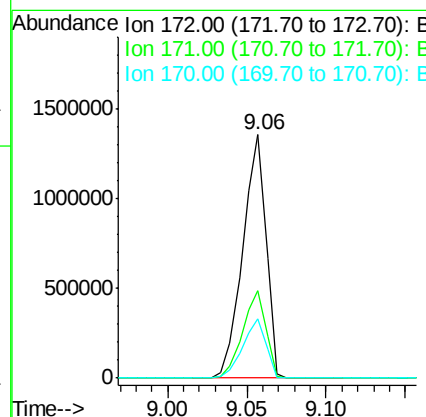
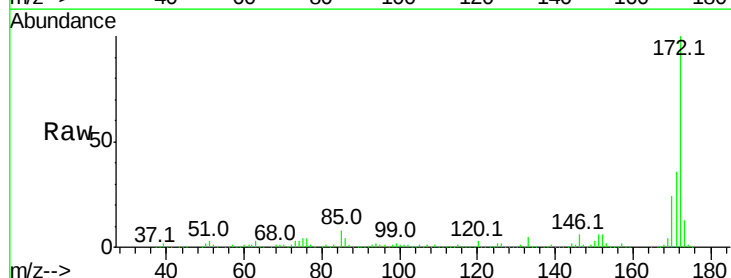
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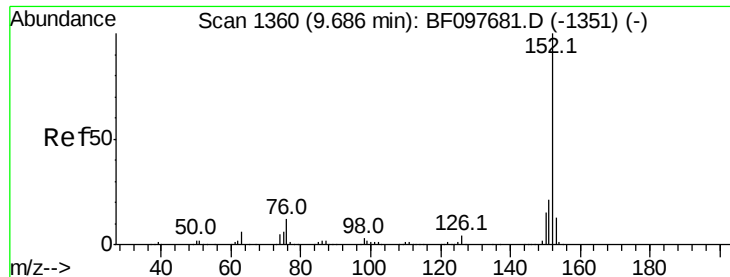
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#44
 2-Fluorobiphenyl
 Concen: 99.916 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1374712		
171	36.0	29.6	44.4	
170	24.2	19.8	29.8	





#48

Acenaphthylene

Concen: 5.127 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Instrument :

BNA_F

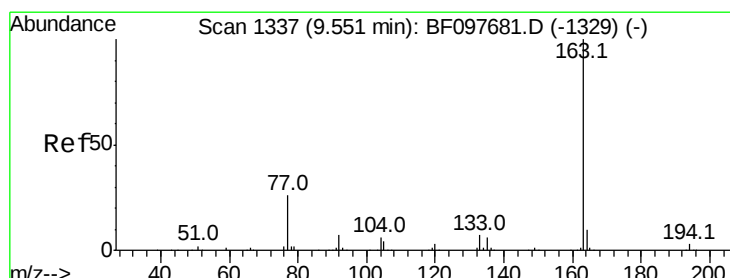
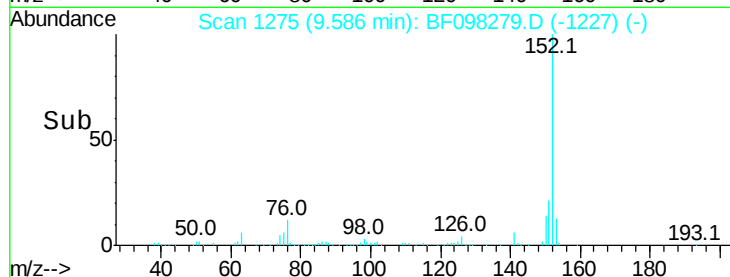
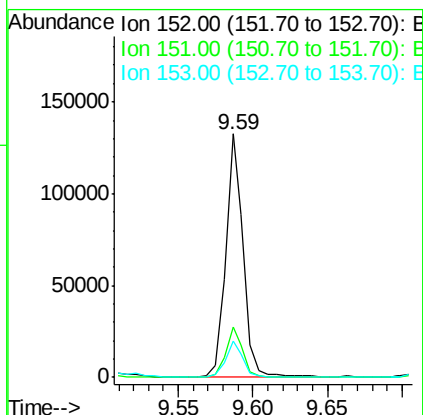
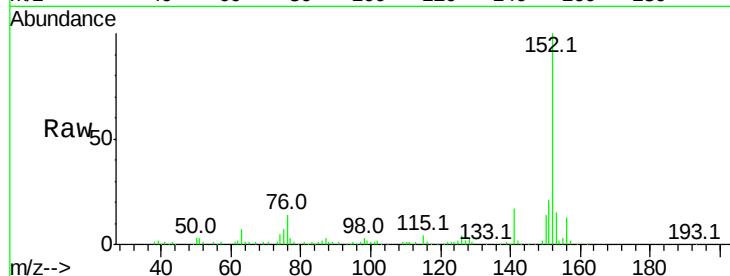
ClientSampleId :

OR-02-083117

Tot Ion	Ratio	Resp	Lower	Upper
152	100	109668		
151	20.7		16.8	25.2
153	14.6		10.8	16.2

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#49

Dimethylphthalate

Concen: 8.621 ng

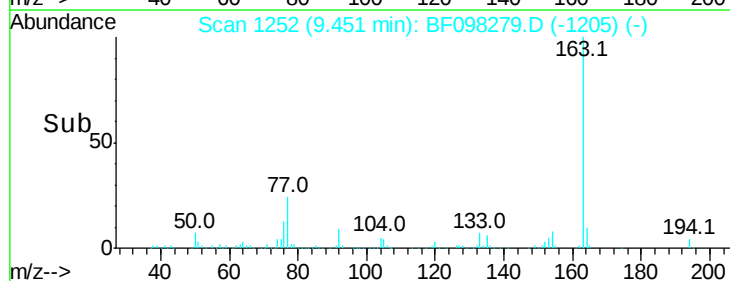
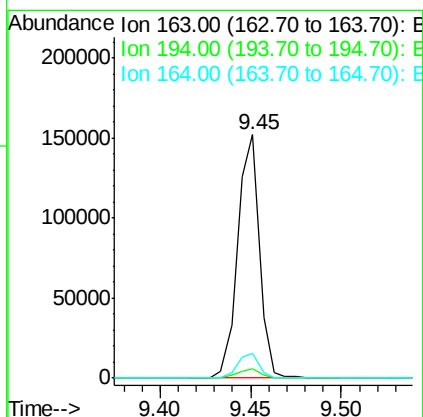
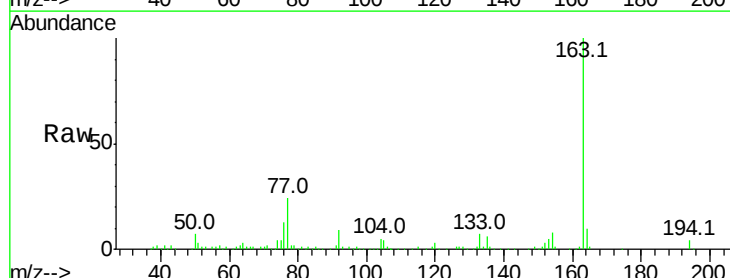
RT: 9.45 min Scan# 1252

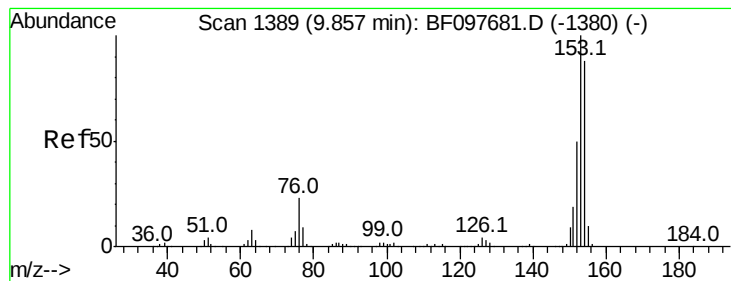
Delta R.T. -0.02 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	127390		
194	3.9		2.6	4.0
164	10.0		8.4	12.6





#51

Acenaphthene

Concen: 4.988 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.02 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Instrument :

BNA_F

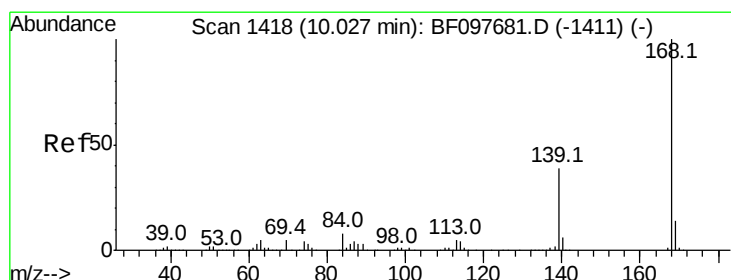
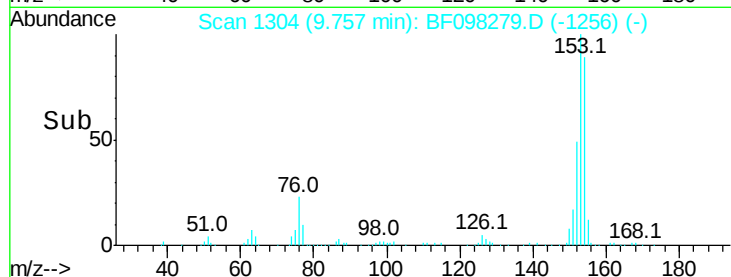
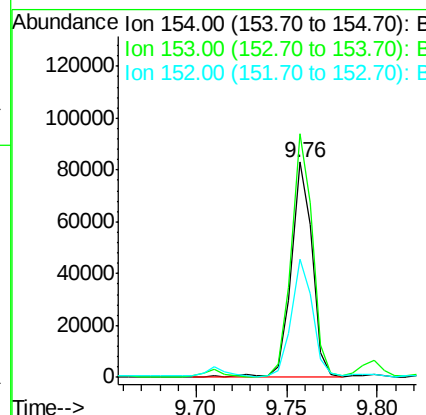
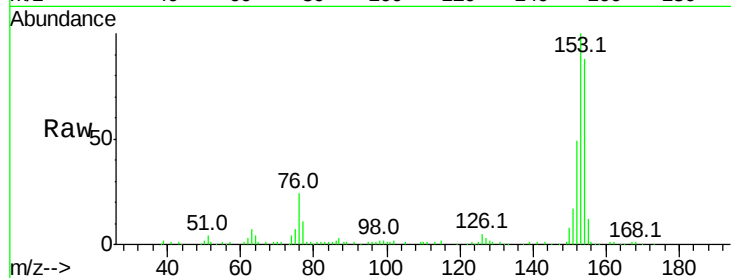
ClientSampleId :

OR-02-083117

Tot Ion:	154	Resp:	67289
Ion Ratio	Lower	Upper	
154	100		
153	113.1	90.5	135.7
152	55.0	43.6	65.4

Manual Integrations
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#54

Dibenzofuran

Concen: 4.140 ng

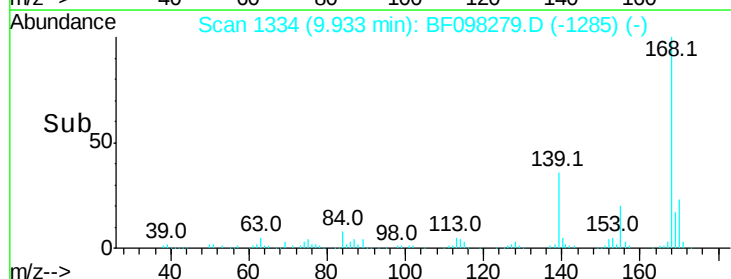
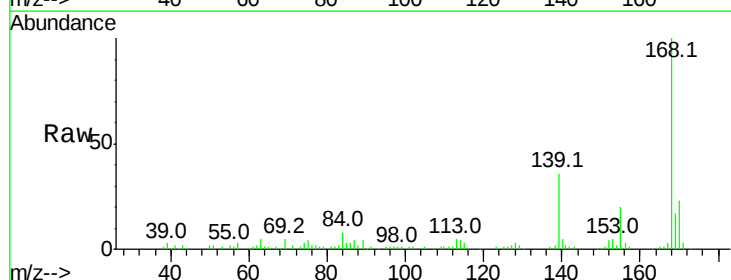
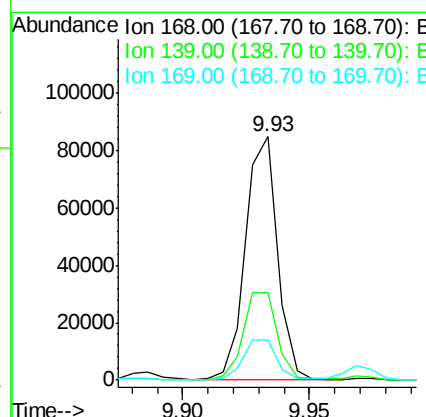
RT: 9.93 min Scan# 1334

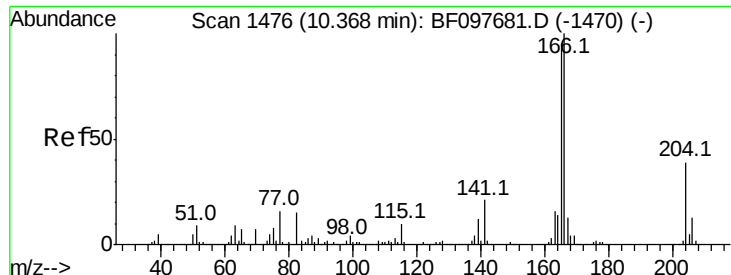
Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Tgt Ion:	168	Resp:	74840
Ion Ratio	Lower	Upper	
168	100		
139	35.9	30.6	45.8
169	16.7	10.8	16.2#





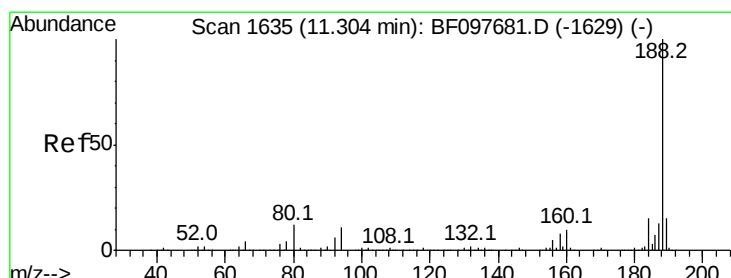
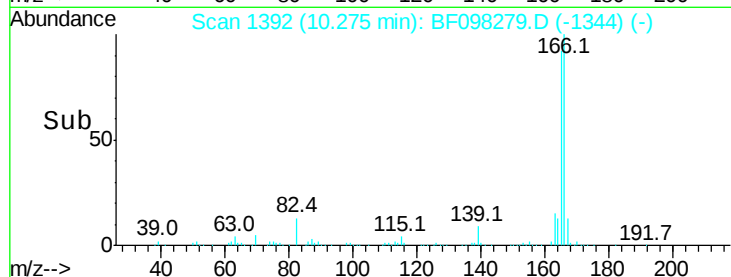
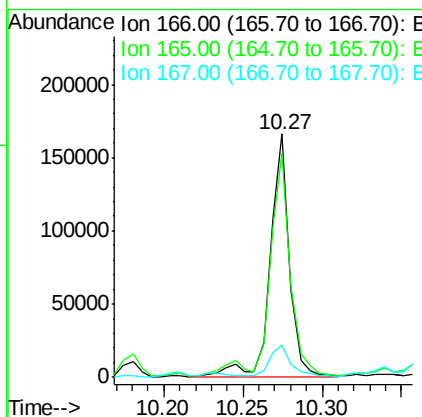
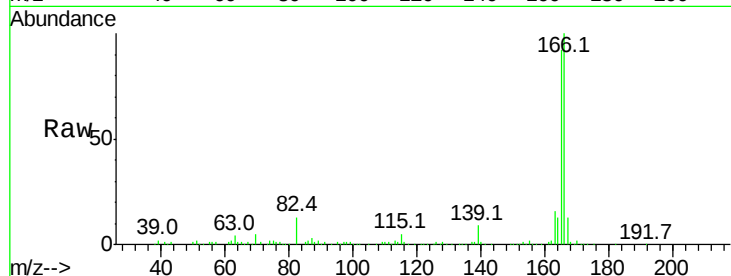
#57
Fluorene
 Concen: 10.125 ng
 RT: 10.27 min Scan# 1392
 Delta R.T. -0.02 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-083117

Tot Ion	Ratio	Resp	Lower	Upper
166	100	141518		
165	92.3	78.8	118.2	
167	13.4	10.6	16.0	

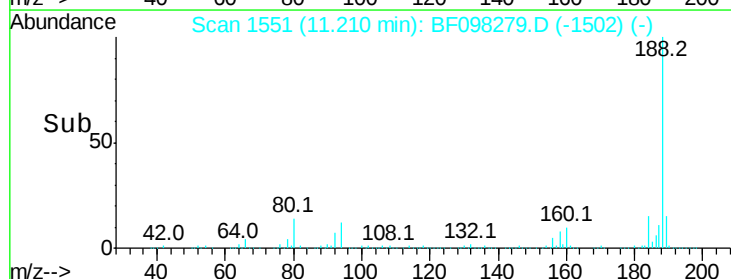
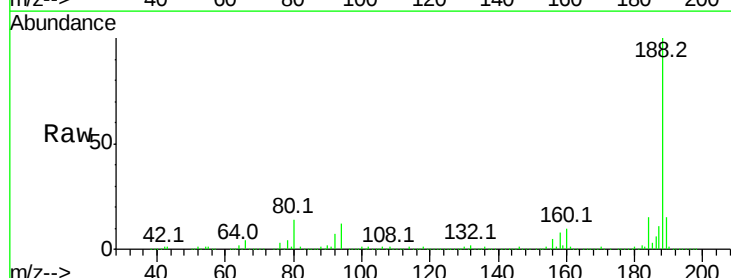
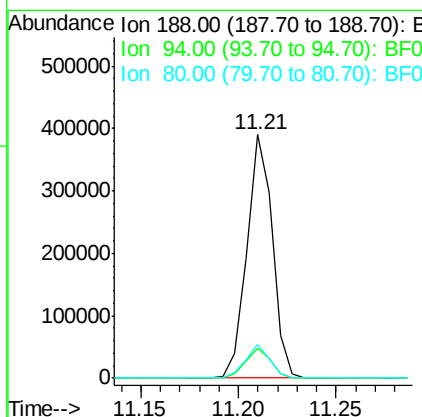
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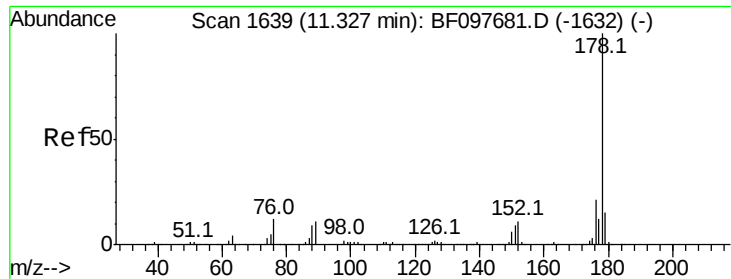
Sohil
 9/7/2017 5:44:27 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.21 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	352957		
94	12.5	9.4	14.2	
80	13.6	10.2	15.2	





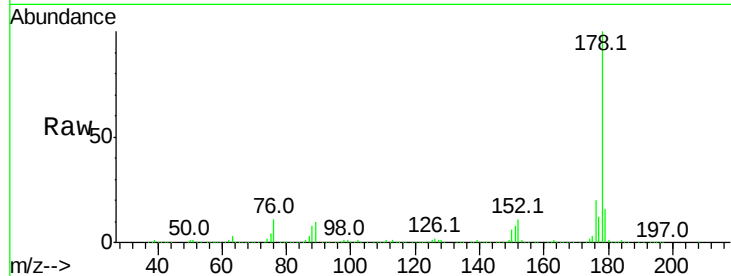
#70
Phenanthrene
Concen: 47.041 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Instrument :
BNA_F
ClientSampleId :
OR-02-083117

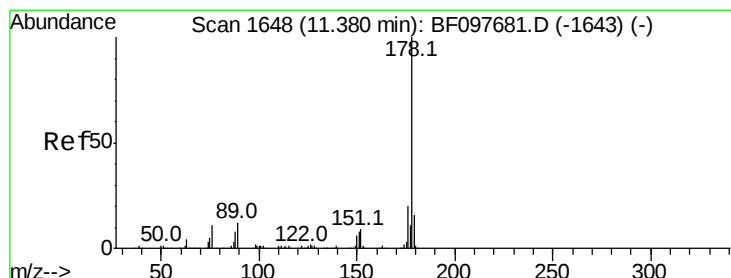
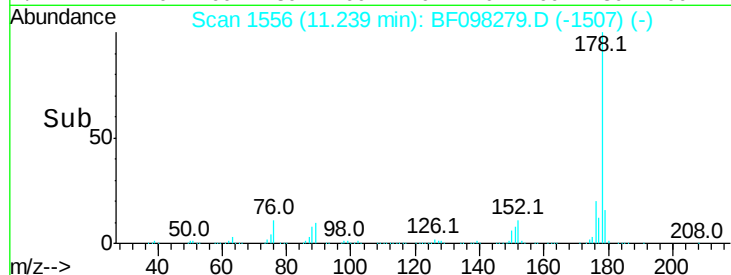
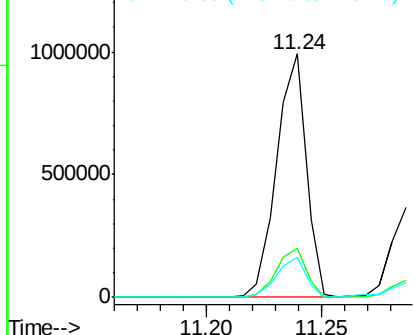
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.2	24.4
179	16.4	12.6	19.0

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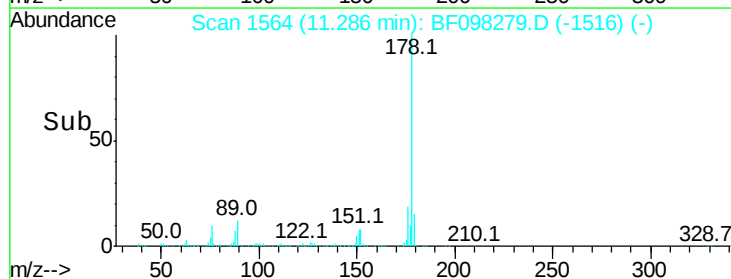
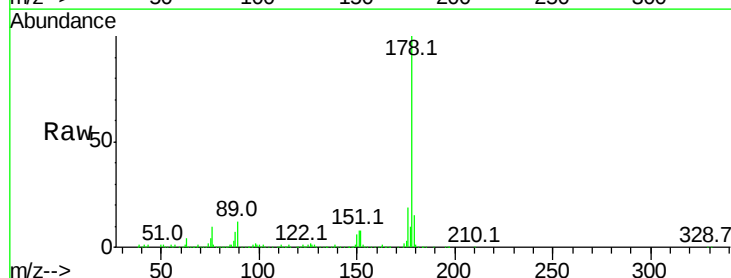
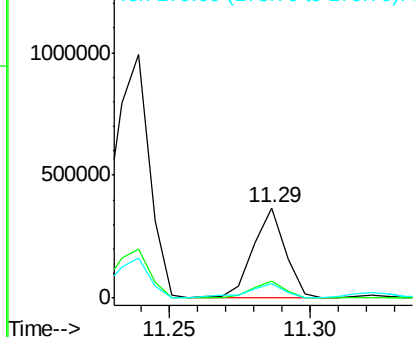
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

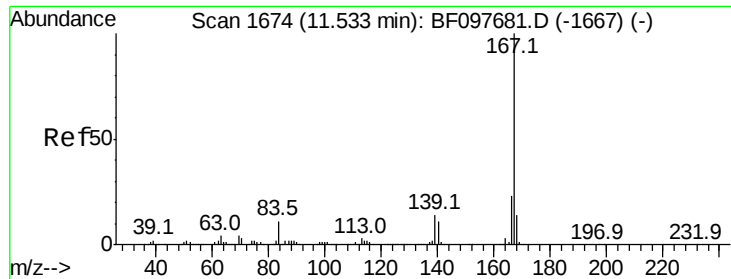


#71
Anthracene
Concen: 15.046 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.02 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.4	12.7	19.1

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





#72

Carbazole

Concen: 2.942 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.02 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Instrument :

BNA_F

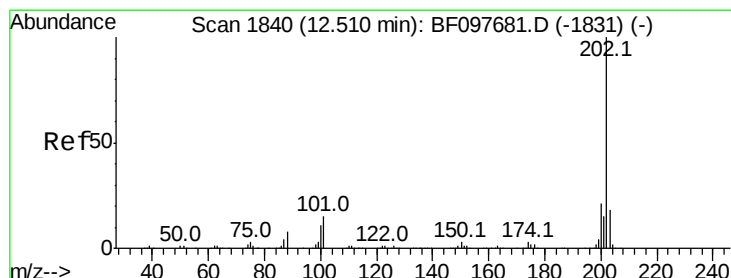
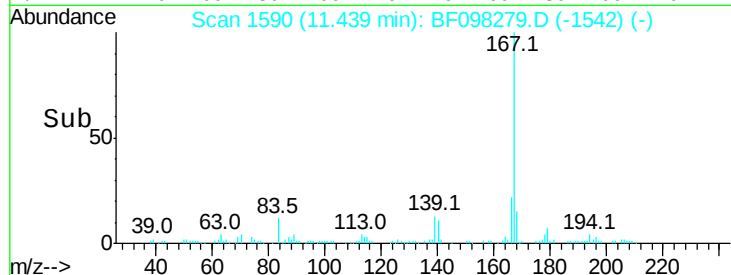
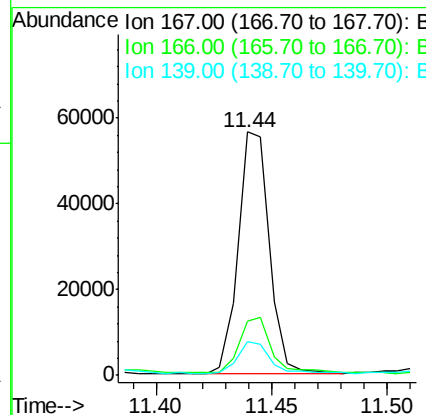
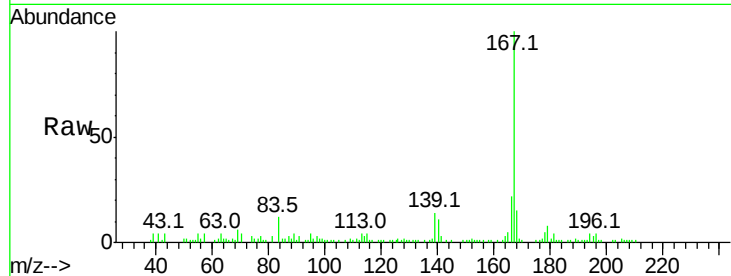
ClientSampleId :

OR-02-083117

Tot Ion:	167	Resp:	53277
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	13.9	11.7	17.5

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#74

Fluoranthene

Concen: 71.008 ng

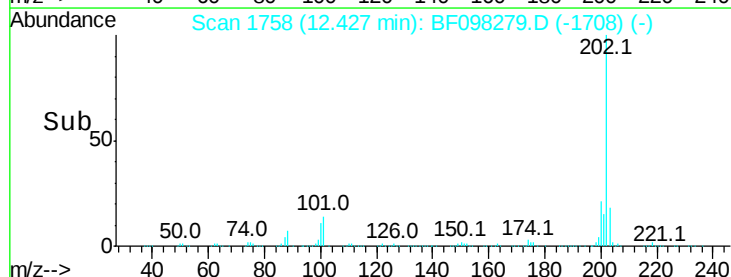
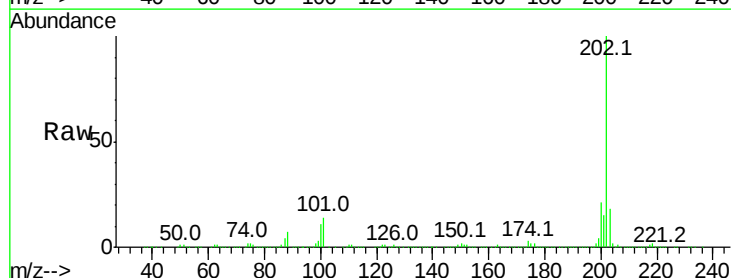
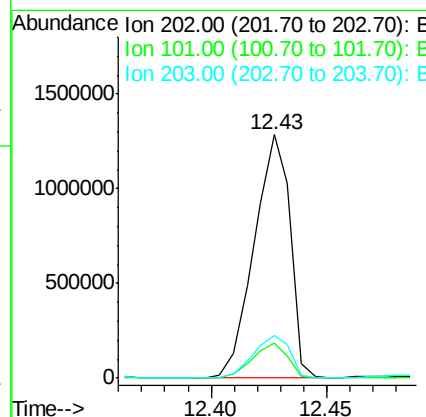
RT: 12.43 min Scan# 1758

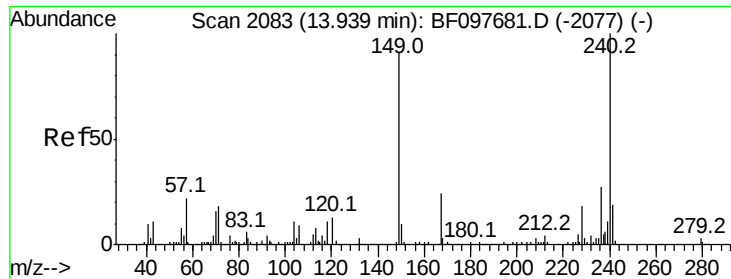
Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Tgt Ion:	202	Resp:	1393984
Ion Ratio	Lower	Upper	
202	100		
101	14.3	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Instrument :

BNA_F

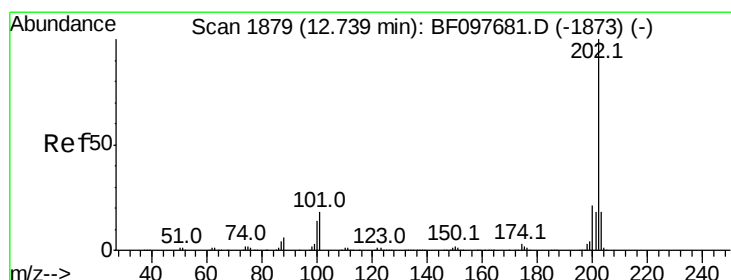
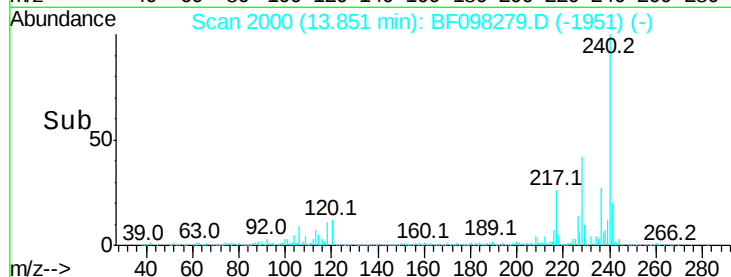
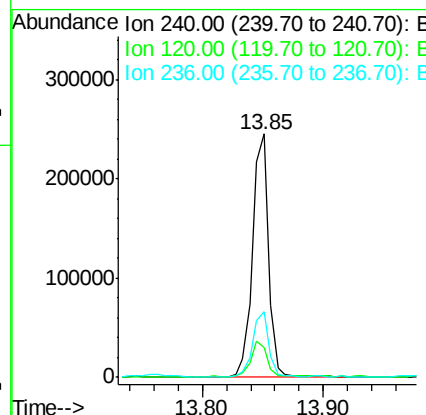
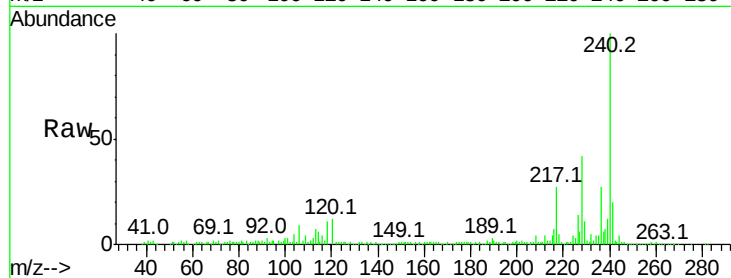
ClientSampleId :

OR-02-083117

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.4	5.8	8.8#
236	26.7	20.5	30.7

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#77

Pyrene

Concen: 68.160 ng

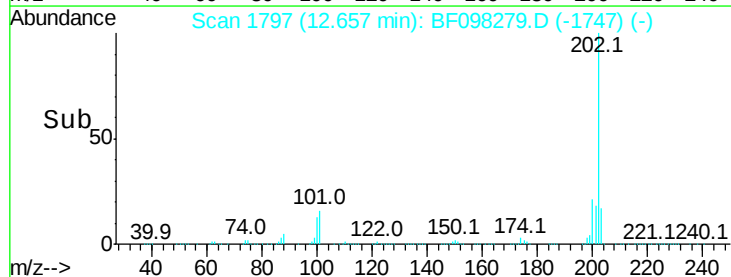
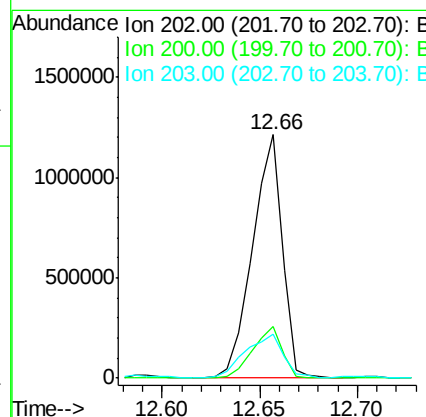
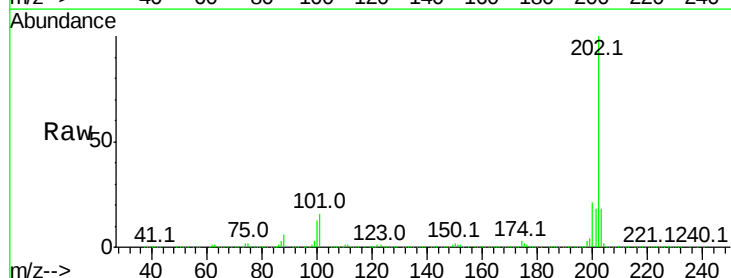
RT: 12.66 min Scan# 1797

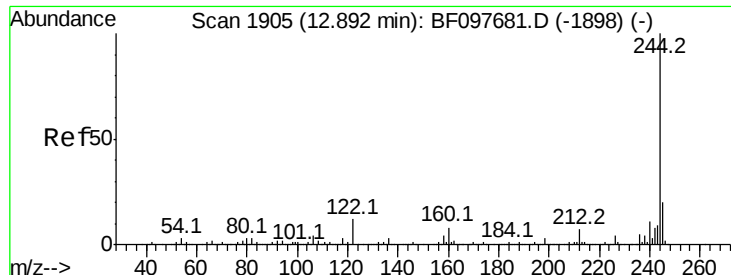
Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.6	26.4
203	17.9	14.4	21.6





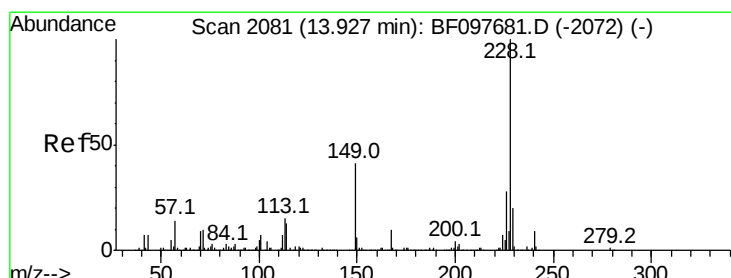
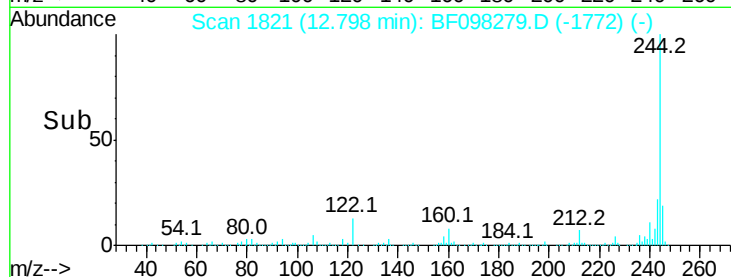
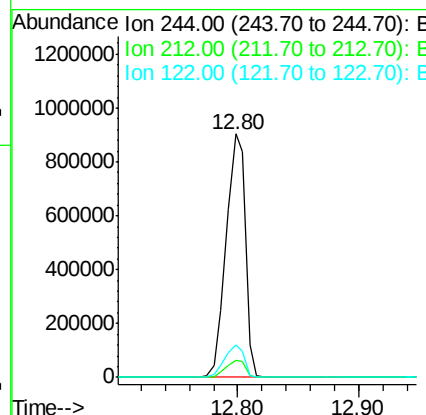
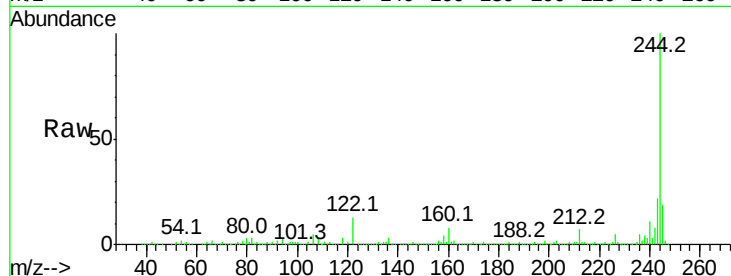
#78
 Terphenyl-d14
 Concen: 90.156 ng
 RT: 12.80 min Scan# 1821
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-083117

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	13.2	10.3	15.5

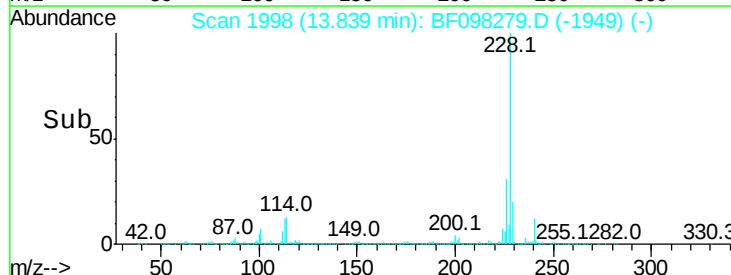
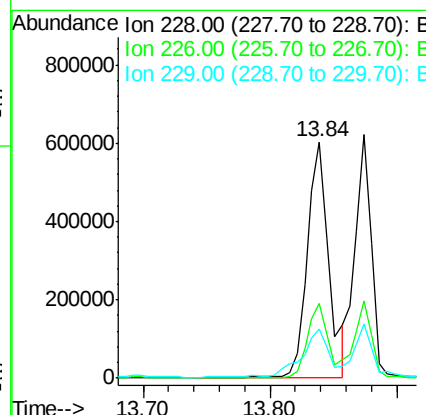
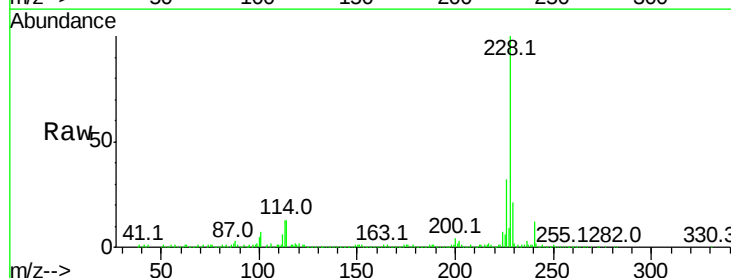
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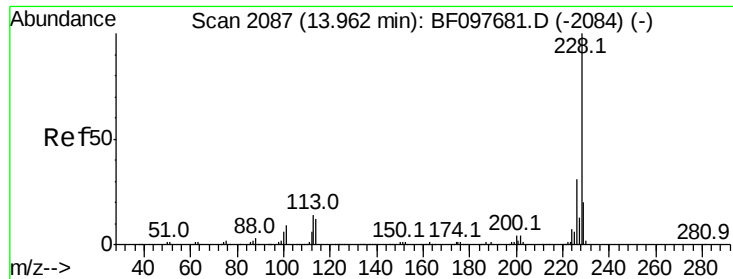
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#80
 Benzo(a)anthracene
 Concen: 51.651 ng
 RT: 13.84 min Scan# 1998
 Delta R.T. -0.01 min
 Lab File: BF098279.D
 Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	22.6	33.8
229	21.0	16.3	24.5





#82

Chrysene

Concen: 40.684 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Instrument :

BNA_F

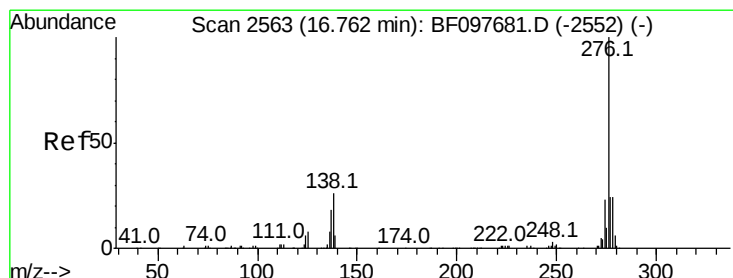
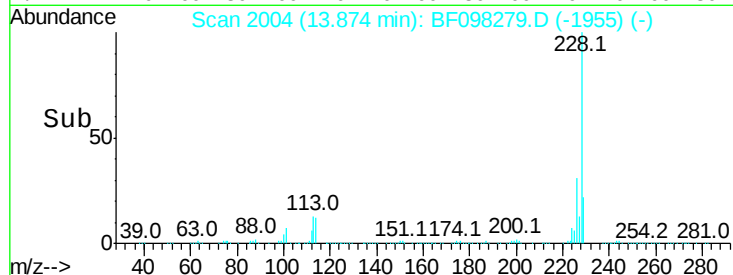
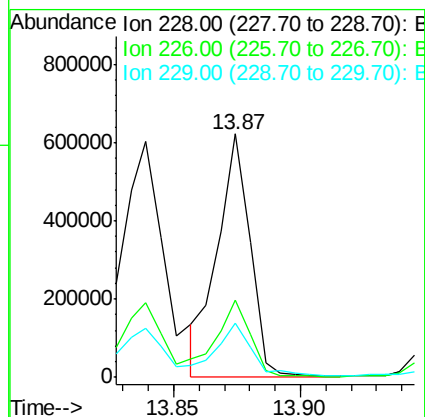
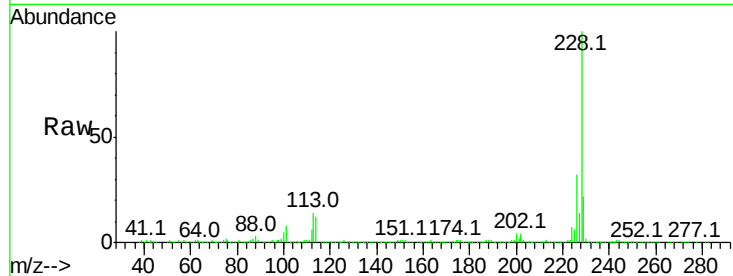
ClientSampleId :

OR-02-083117

Tot Ion:	228	Resp:	555245
Ion Ratio	Lower	Upper	
228	100		
226	31.8	24.9	37.3
229	22.4	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 30.230 ng

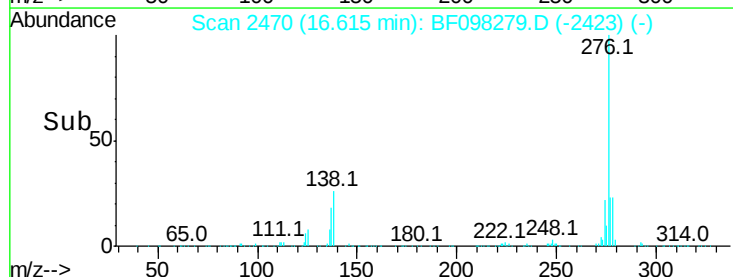
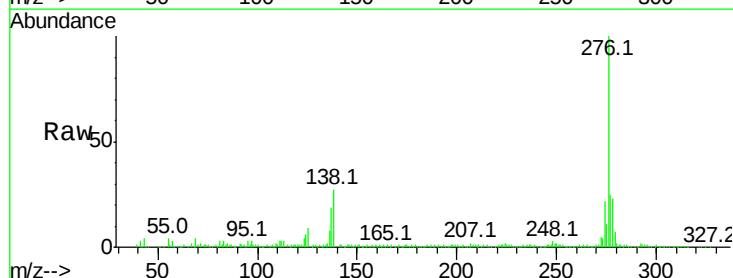
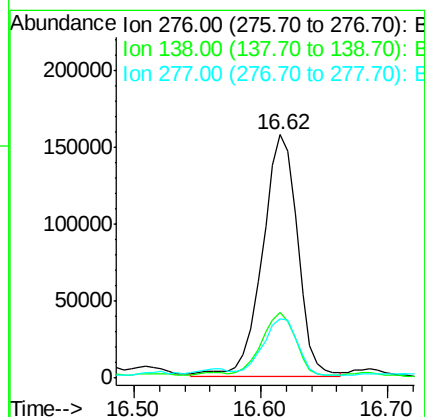
RT: 16.62 min Scan# 2470

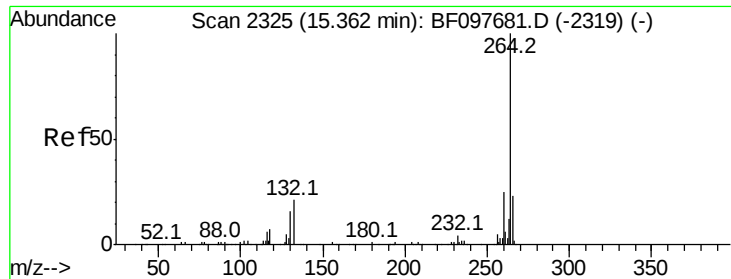
Delta R.T. -0.02 min

Lab File: BF098279.D

Acq: 6 Sep 2017 18:18

Tgt Ion:	276	Resp:	303505
Ion Ratio	Lower	Upper	
276	100		
138	25.5	27.8	41.6#
277	23.4	20.2	30.4





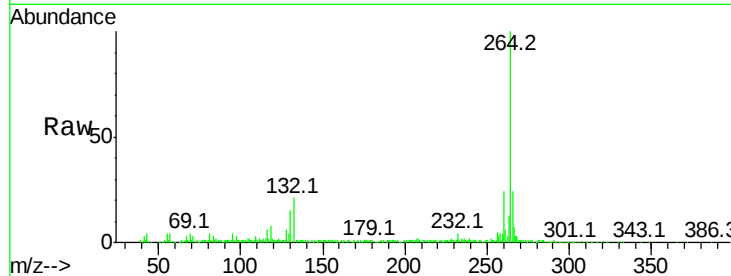
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.26 min Scan# 2239
Delta R.T. -0.01 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Instrument :
BNA_F
ClientSampleId :
OR-02-083117

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	24.1	17.2	25.8

Manual Integrations
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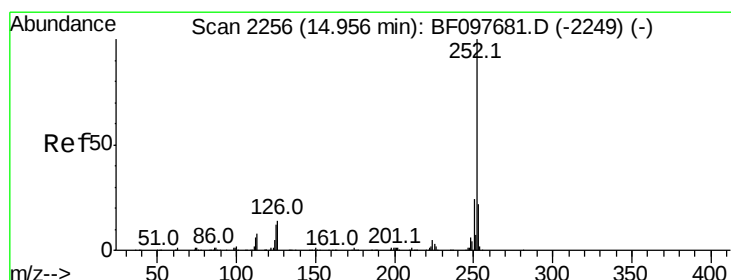
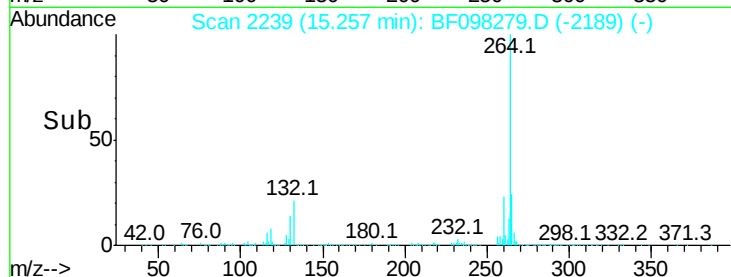
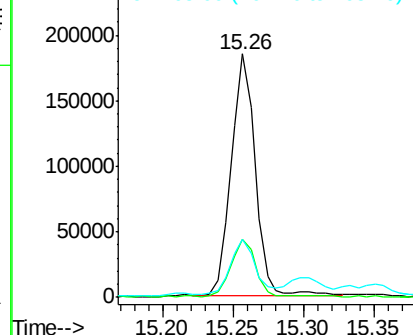


Abundance

Ion 264.00 (263.70 to 264.70): E

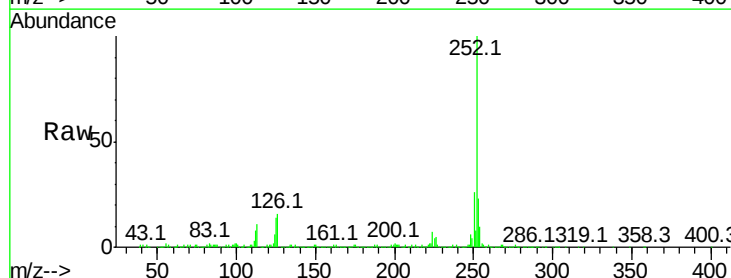
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 58.353 ng m
RT: 14.86 min Scan# 2172
Delta R.T. -0.01 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	14.0	9.8	14.8

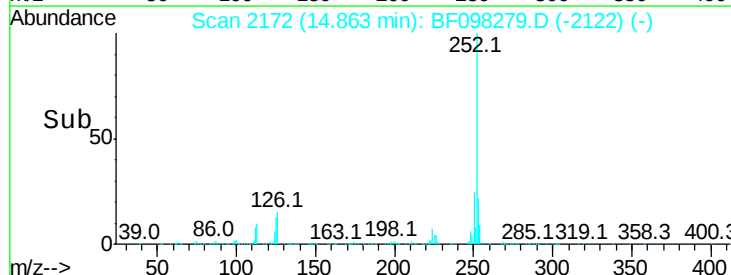
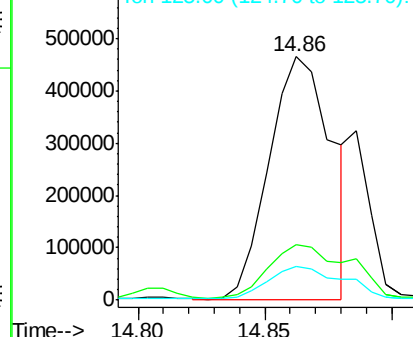


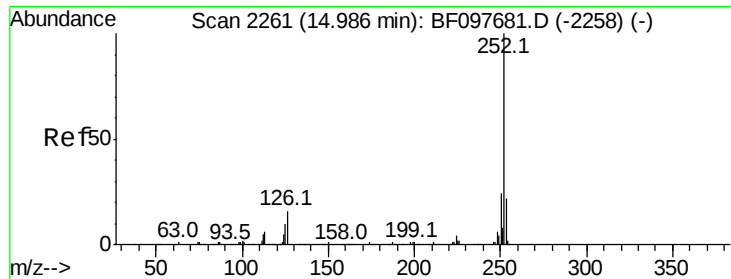
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





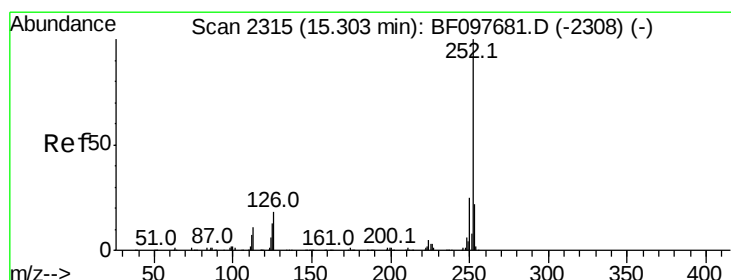
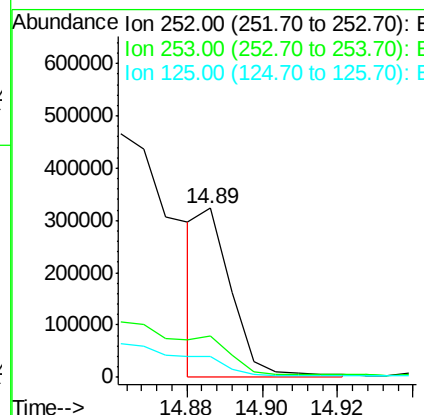
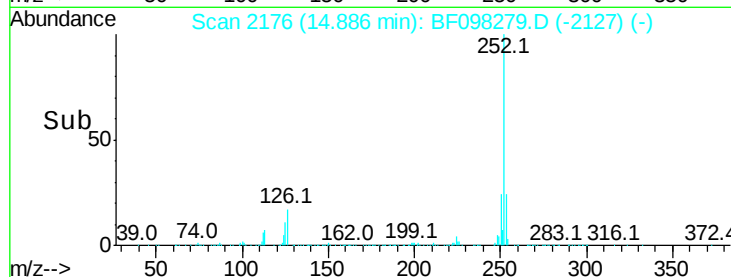
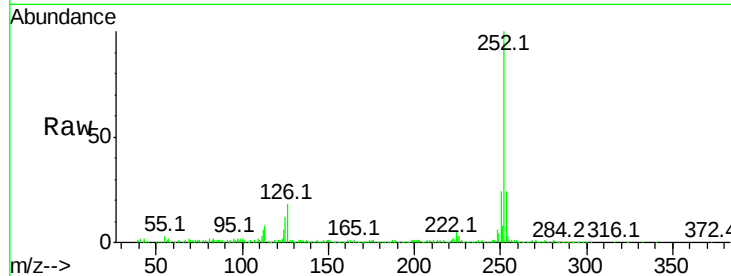
#88
Benzo(k)fluoranthene
Concen: 14.859 ng m
RT: 14.89 min Scan# 2176
Delta R.T. -0.01 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Instrument :
BNA_F
ClientSampleId :
OR-02-083117

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.4	27.6
125	12.1	13.1	19.7

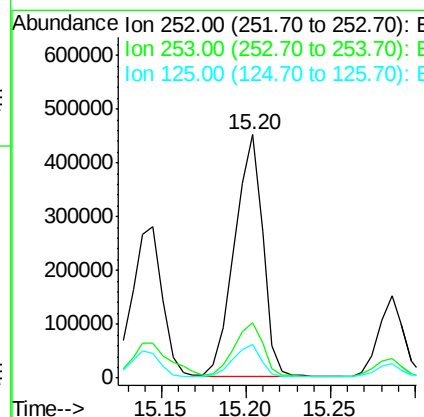
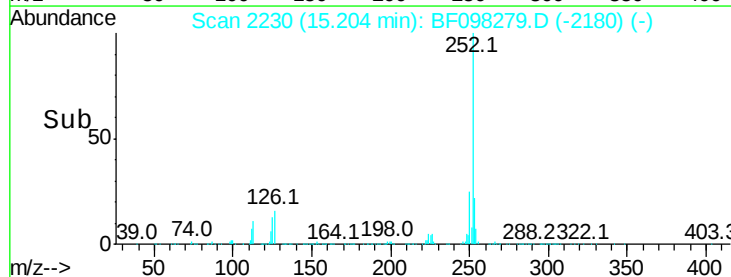
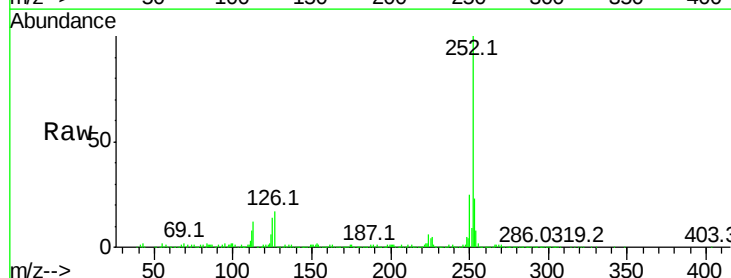
Manual Integrations
APPROVED

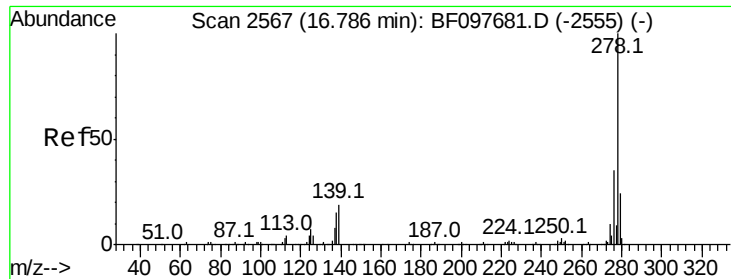
Sohil
9/7/2017 5:44:27 PM



#89
Benzo(a)pyrene
Concen: 43.268 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	13.9	11.0	16.4





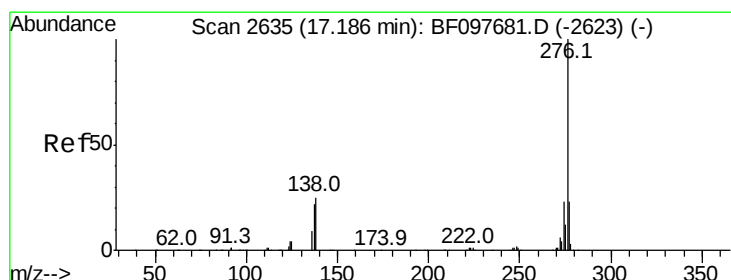
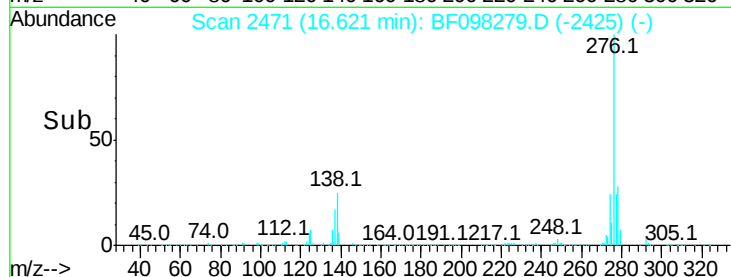
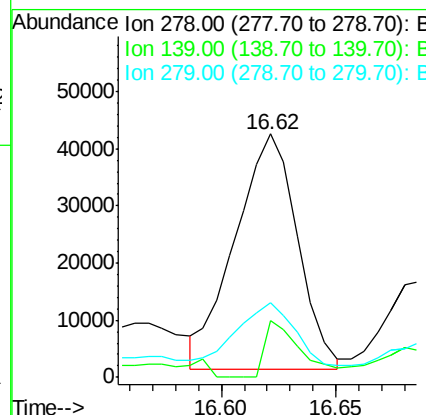
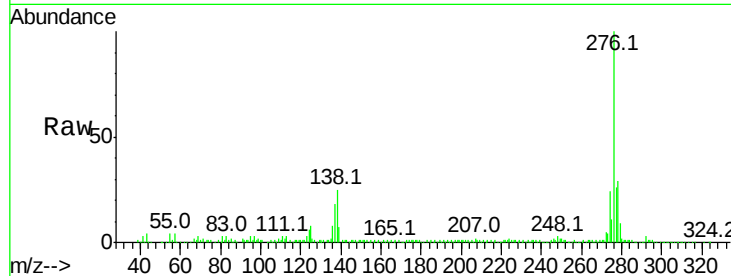
#90
Dibenzo(a,h)anthracene
Concen: 7.846 ng m
RT: 16.62 min Scan# 2471
Delta R.T. -0.03 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Instrument :
BNA_F
ClientSampleId :
OR-02-083117

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.3	16.6	24.8
279	30.8	19.3	28.9

Manual Integrations
APPROVED

Sohil
9/7/2017 5:44:27 PM



#91
Benzo(g,h,i)perylene
Concen: 25.866 ng
RT: 17.03 min Scan# 2540
Delta R.T. -0.02 min
Lab File: BF098279.D
Acq: 6 Sep 2017 18:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	26.3	25.4	38.0

