

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122515\
 Data File : BF084149.D
 Acq On : 26 Dec 2015 00:56
 Operator : UM/SJ
 Sample : G4954-13
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 2SP-1(0-2)8E

Manual Integrations
 APPROVED

Sohil
 12/28/2015 5:58:34 PM

Quant Time: Dec 26 06:10:40 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 24 16:48:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	54715	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	168247	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	75795	20.00	ng	0.01
63) Phenanthrene-d10	11.33	188	115546	20.00	ng	0.01
75) Chrysene-d12	13.96	240	102227	20.00	ng	0.00
86) Perylene-d12	15.39	264	82097	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.41	112	319533	99.01	ng	0.00
7) Phenol-d6	6.45	99	363905	91.13	ng	0.00
23) Nitrobenzene-d5	7.37	82	247433	86.08	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	71771	88.80	ng	0.01
44) 2-Fluorobiphenyl	9.17	172	329021	59.40	ng	0.01
78) Terphenyl-d14	12.91	244	280381	49.63	ng	0.01

Target Compounds

						Qvalue
31) Naphthalene	8.11	128	105270m	11.76	ng	
37) 2-Methylnaphthalene	8.81	142	213325	38.07	ng	97
45) 1,1'-Biphenyl	9.26	154	15116	2.21	ng	85
48) Acenaphthylene	9.71	152	43498	5.09	ng	# 67
49) Dimethylphthalate	9.56	163	74797	11.92	ng	# 86
51) Acenaphthene	9.88	154	37866	7.62	ng	# 76
57) Fluorene	10.40	166	77692	13.37	ng	# 92
70) Phenanthrene	11.36	178	214605	31.33	ng	# 97
71) Anthracene	11.40	178	62373m	8.71	ng	
72) Carbazole	11.56	167	18995	3.12	ng	# 40
74) Fluoranthene	12.54	202	227524	28.86	ng	94
77) Pvrene	12.77	202	265201	30.07	ng	99
80) Benzo(a)anthracene	13.95	228	134967	21.46	ng	# 93
82) Chrysene	14.00	228	106378m	18.35	ng	
83) Bis(2-ethylhexyl)phthalate	13.94	149	17545	3.72	ng	# 90
85) Indeno(1,2,3-cd)pyrene	16.81	276	56449	9.72	ng	96
87) Benzo(b)fluoranthene	14.99	252	129145m	21.18	ng	
88) Benzo(k)fluoranthene	15.00	252	47721m	11.55	ng	
89) Benzo(a)pvrene	15.33	252	88640	17.65	ng	# 85
90) Dibenzo(a,h)anthracene	16.80	278	13294	2.71	ng	# 70
91) Benzo(g,h,i)perylene	17.23	276	58327	11.66	ng	96

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

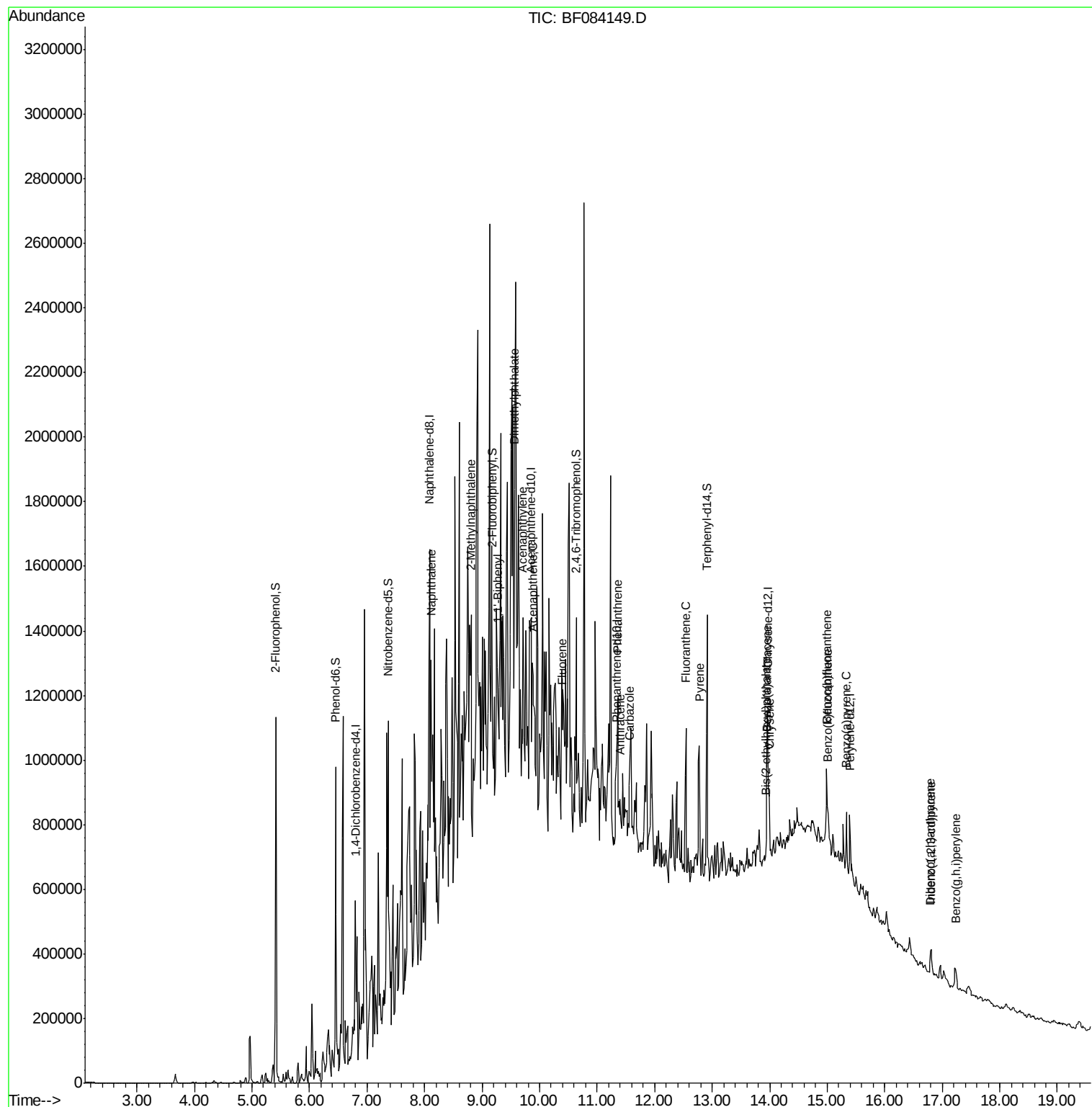
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122515\
Data File : BF084149.D
Acq On : 26 Dec 2015 00:56
Operator : UM/SJ
Sample : G4954-13
Misc :
ALS Vial : 66 Sample Multiplier: 1

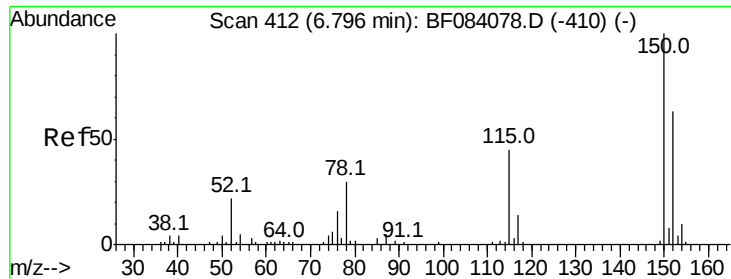
Instrument :
BNA_F
ClientSampleId :
2SP-1(0-2)8E

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Quant Time: Dec 26 06:10:40 2015
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

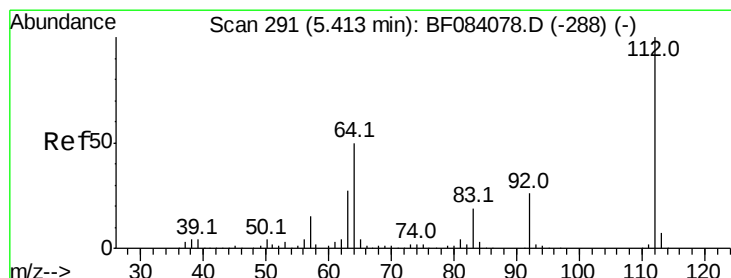
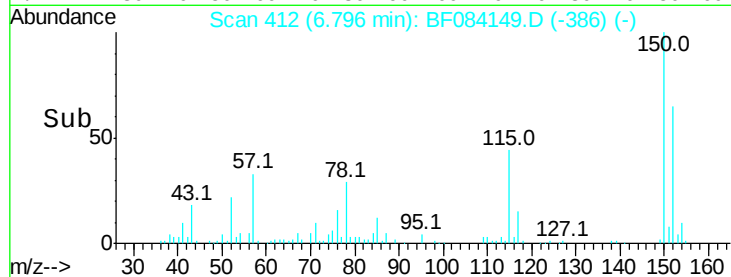
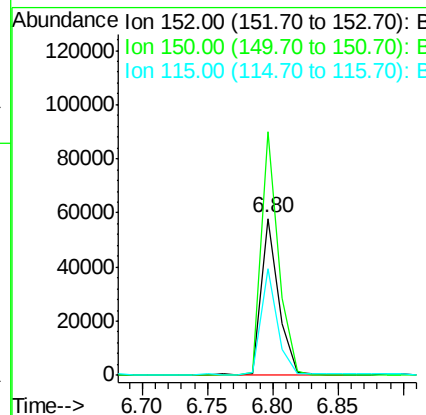
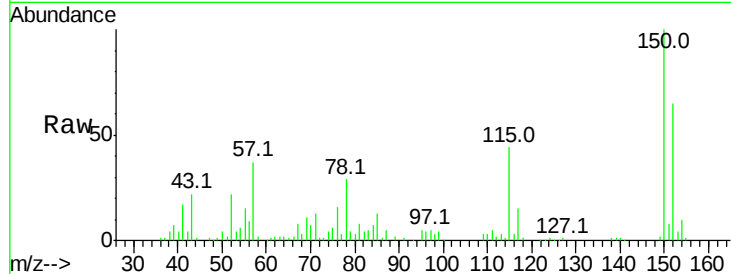
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 412
Delta R.T. 0.00 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Instrument :
BNA_F
ClientSampleId :
2SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.0	184.4
115	68.0	51.4	77.2

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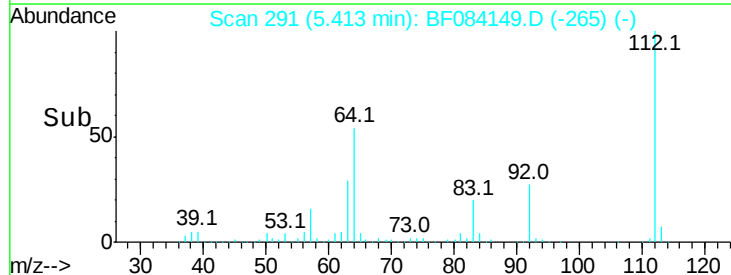
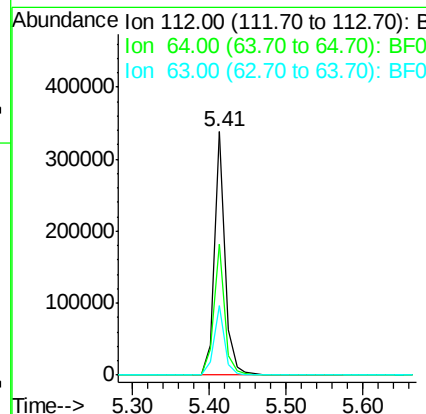
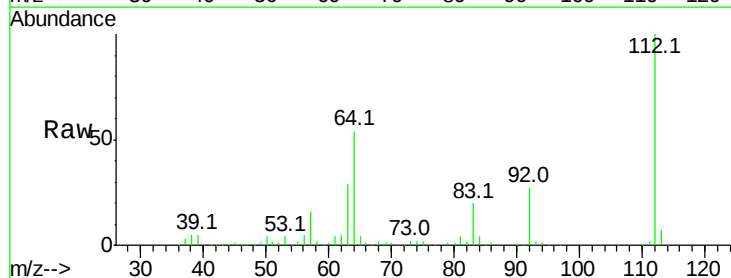
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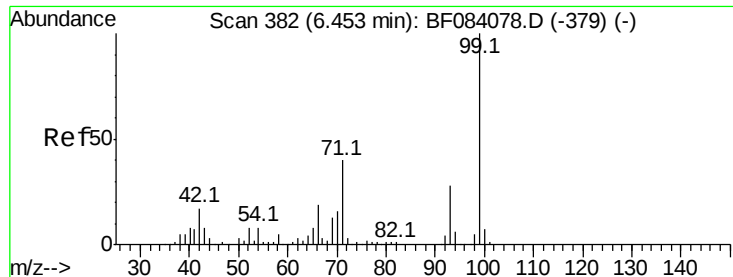


#5

2-Fluorophenol
Concen: 99.01 ng
RT: 5.41 min Scan# 291
Delta R.T. 0.00 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	36.6	55.0
63	28.8	19.4	29.0





#7

Phenol-d6

Concen: 91.13 ng

RT: 6.45 min Scan# 382

Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

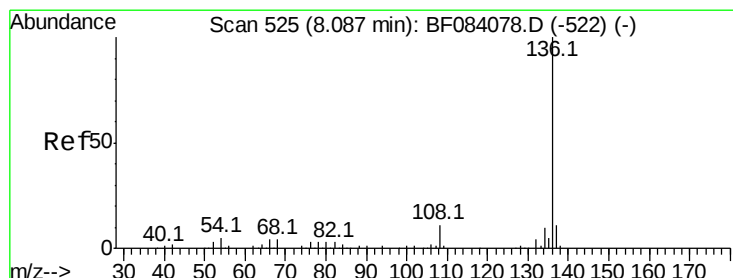
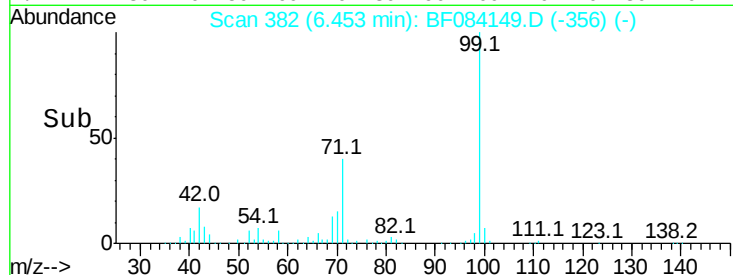
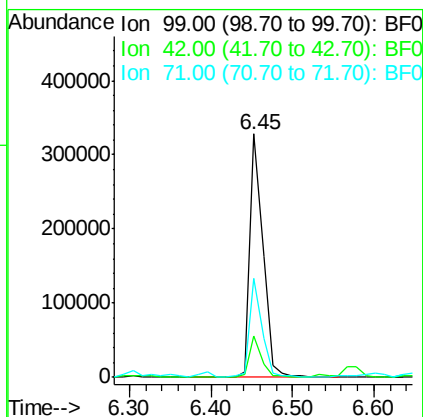
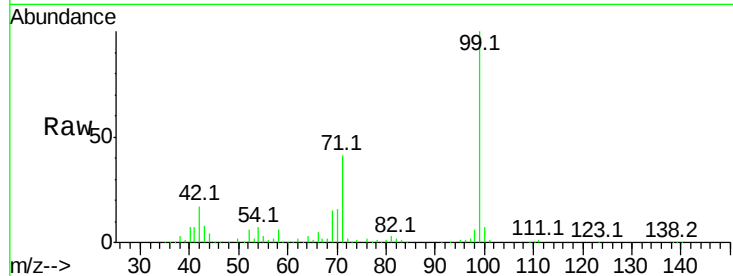
ClientSampleId :

2SP-1(0-2)8E

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		363905		
42	16.8	12.8	19.2		
71	40.7	30.9	46.3		

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#21

Naphthalene-d8

Concen: 20.00 ng

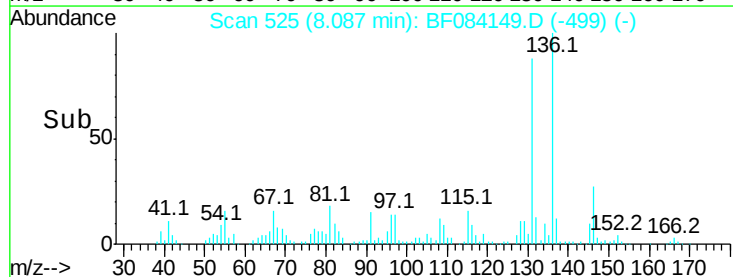
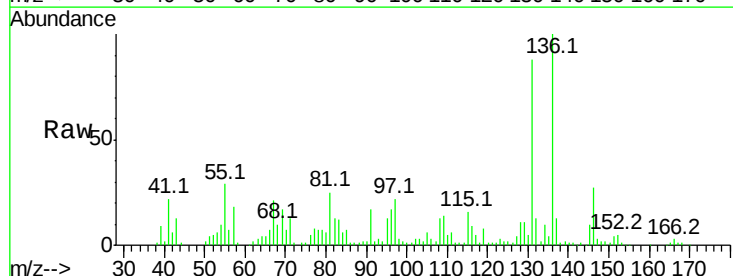
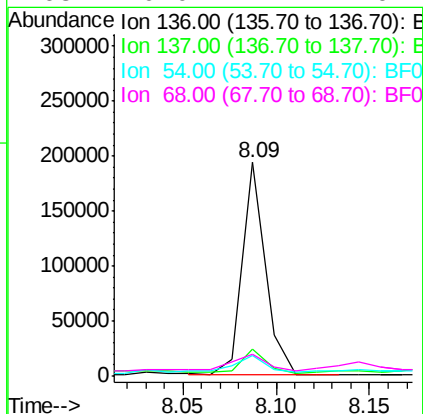
RT: 8.09 min Scan# 525

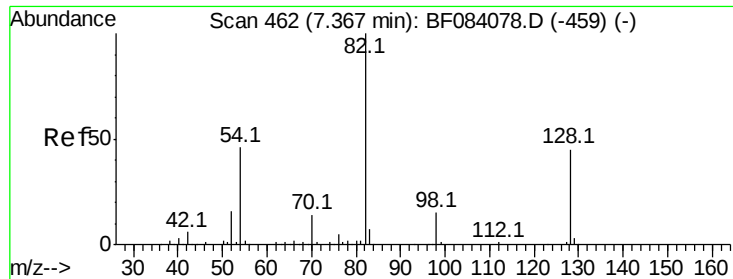
Delta R.T. -0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		168247		
137	12.9	8.7	13.1		
54	9.5	5.8	8.8#		
68	10.0	4.2	6.2#		





#23

Nitrobenzene-d5

Concen: 86.08 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

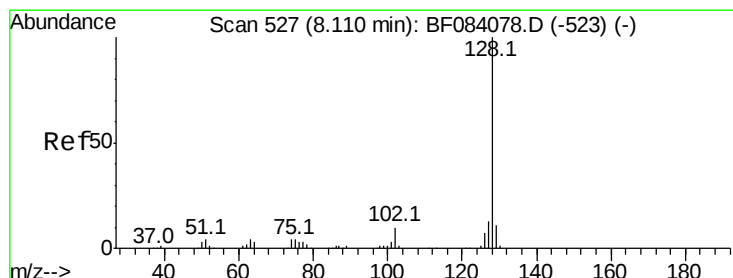
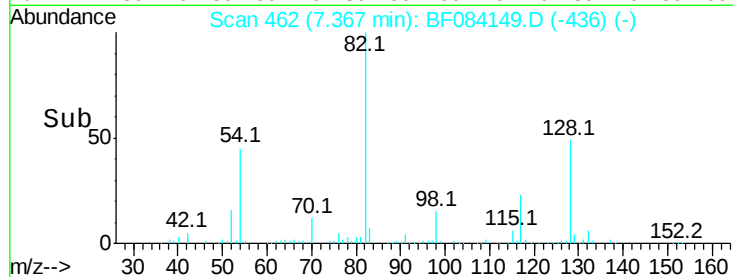
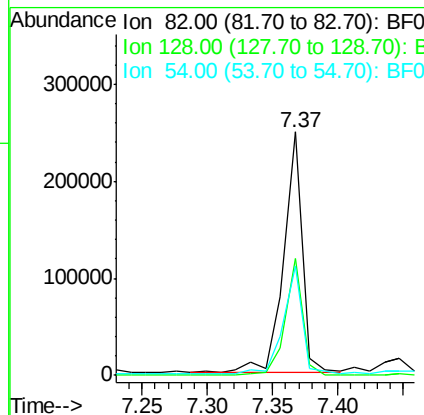
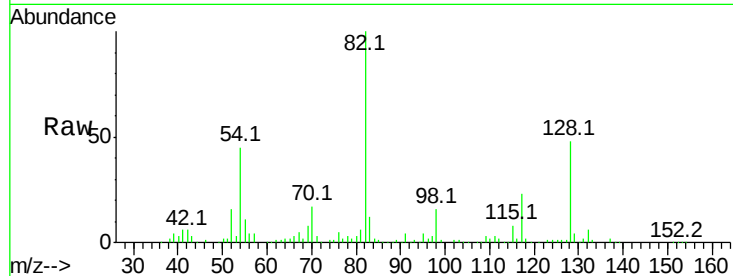
ClientSampleId :

2SP-1(0-2)8E

Tot Ion:	82	Resp:	247433
Ion Ratio	Lower	Upper	
82	100		
128	47.8	34.6	51.8
54	44.9	38.4	57.6

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#31

Naphthalene

Concen: 11.76 ng m

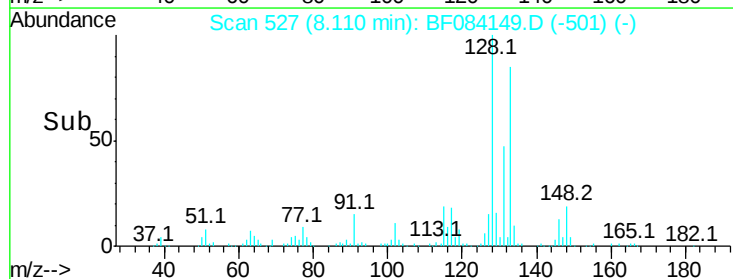
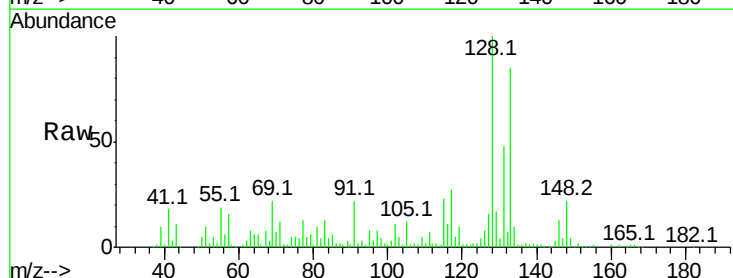
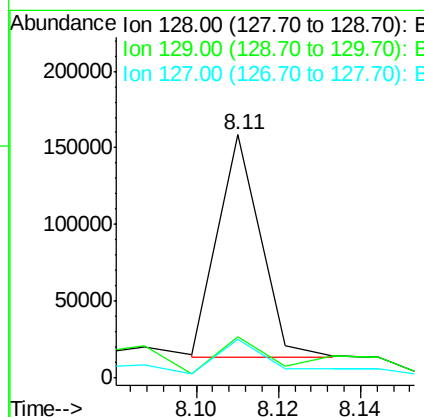
RT: 8.11 min Scan# 527

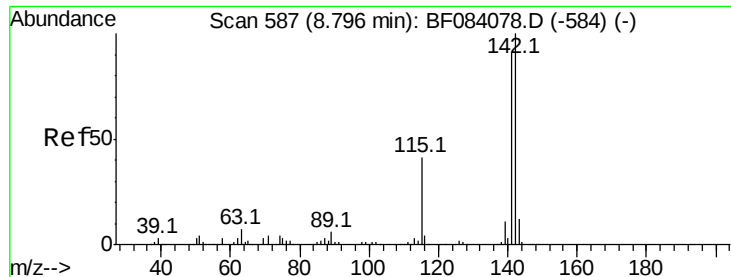
Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	128	Resp:	105270
Ion Ratio	Lower	Upper	
128	100		
129	16.9	9.1	13.7#
127	16.0	11.1	16.7





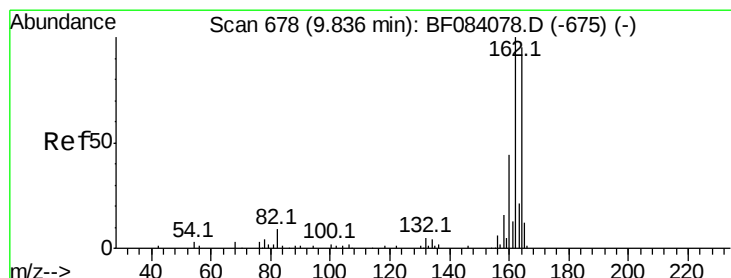
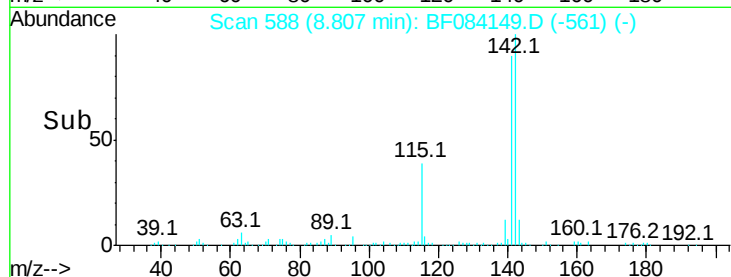
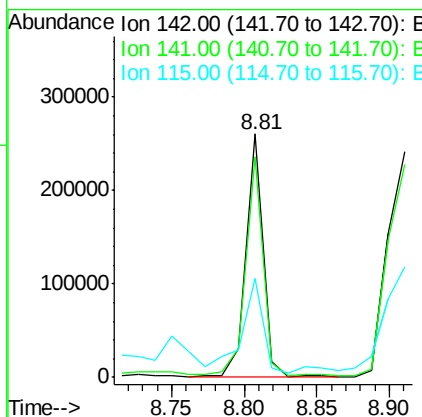
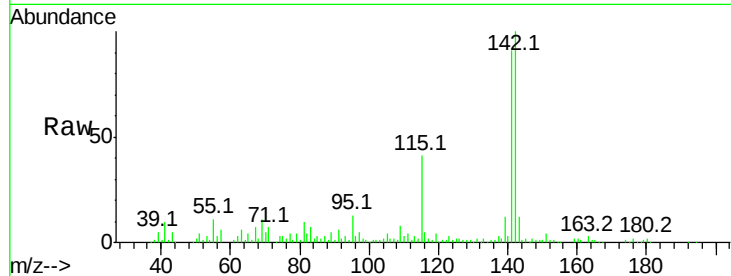
#37
2-Methylnaphthalene
Concen: 38.07 ng
RT: 8.81 min Scan# 588
Delta R.T. 0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Instrument :
BNA_F
ClientSampleId :
2SP-1(0-2)8E

Tot Ion:	142	Resp:	213325
Ion Ratio	Lower	Upper	
142	100		
141	90.6	72.4	108.6
115	40.7	27.9	41.9

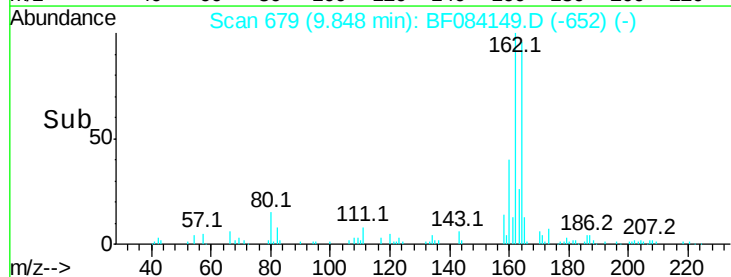
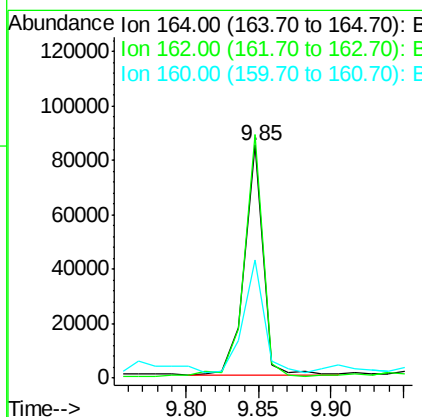
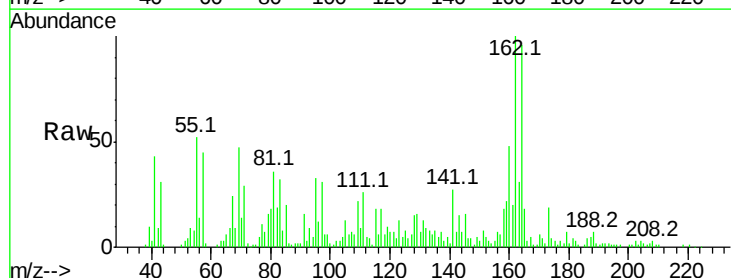
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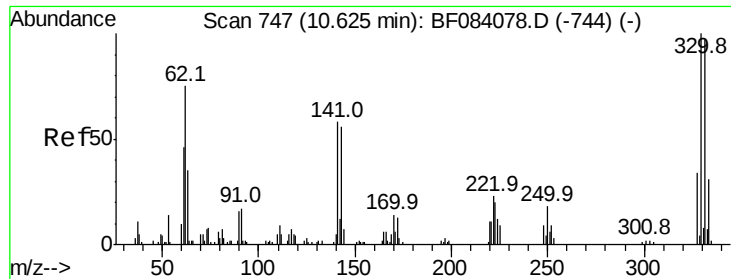
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.85 min Scan# 679
Delta R.T. 0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Tgt Ion:	164	Resp:	75795
Ion Ratio	Lower	Upper	
164	100		
162	104.5	85.1	127.7
160	50.6	37.5	56.3





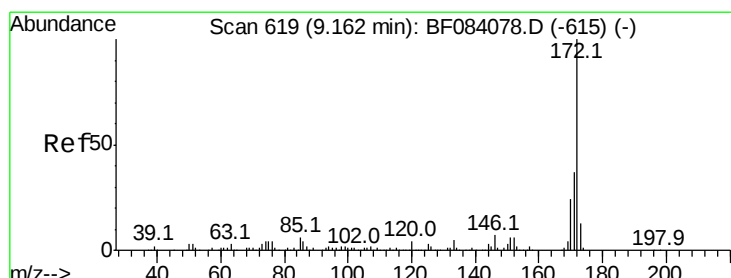
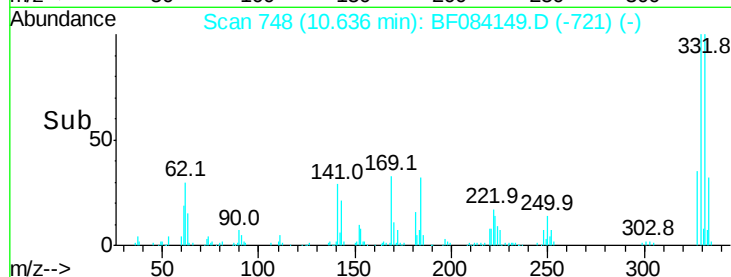
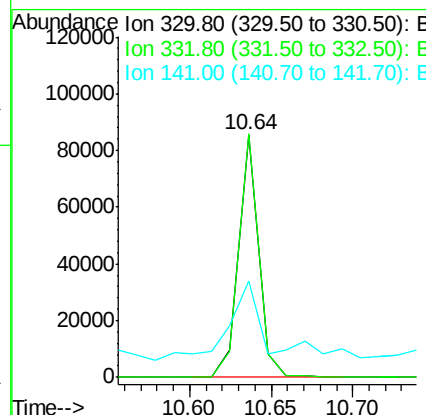
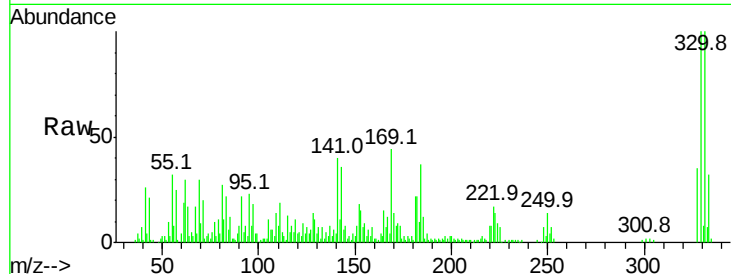
#41
 2,4,6-Tribromophenol
 Concen: 88.80 ng
 RT: 10.64 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: BF084149.D
 Acq: 26 Dec 2015 00:56

Instrument :
 BNA_F
 ClientSampleId :
 2SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
330	100		
332	99.9	76.6	114.8
141	50.8	27.8	41.6

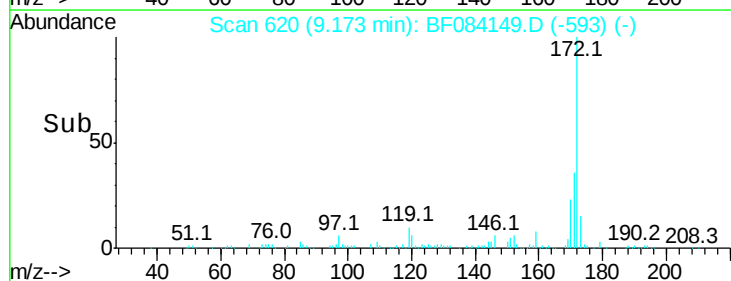
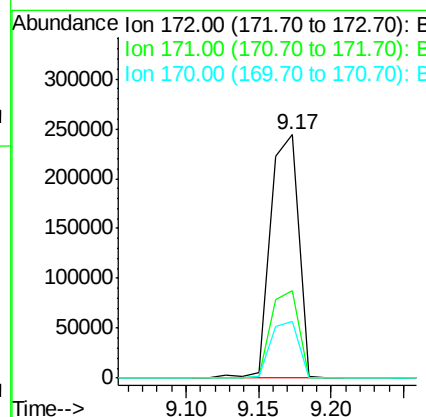
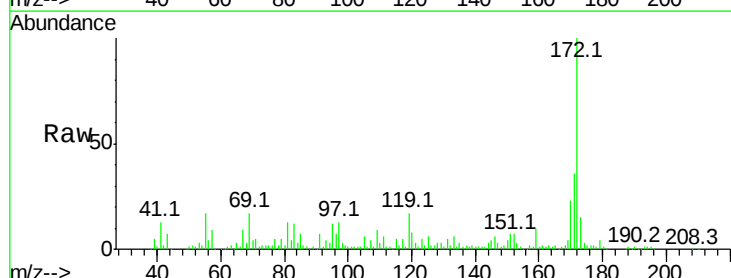
Manual Integrations
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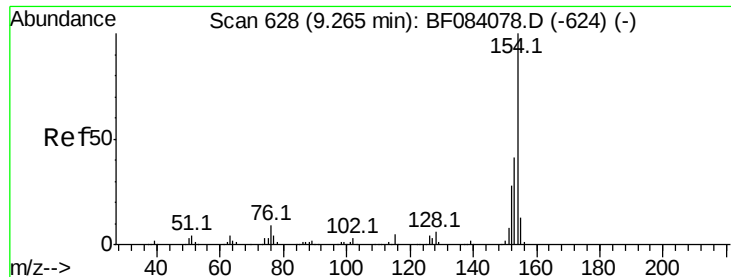
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#44
 2-Fluorobiphenyl
 Concen: 59.40 ng
 RT: 9.17 min Scan# 620
 Delta R.T. 0.01 min
 Lab File: BF084149.D
 Acq: 26 Dec 2015 00:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.9	43.3
170	23.5	18.6	27.8





#45

1,1'-Biphenyl

Concen: 2.21 ng

RT: 9.26 min Scan# 628

Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

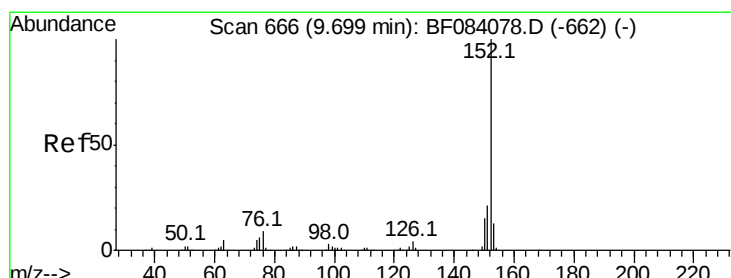
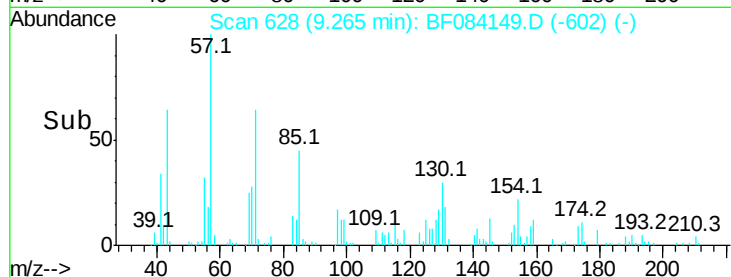
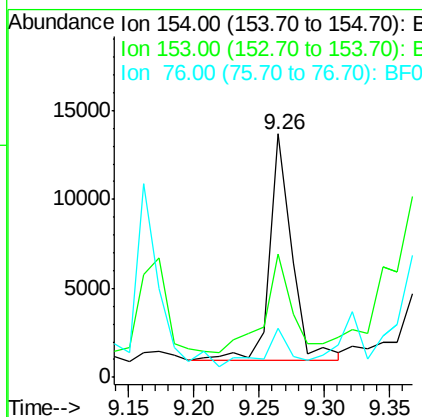
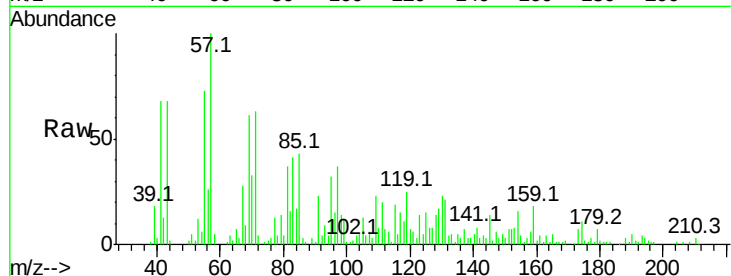
ClientSampleId :

2SP-1(0-2)8E

Tot Ion:	154	Resp:	15116
Ion Ratio	Lower	Upper	
154	100		
153	50.5	21.6	61.6
76	20.0	0.0	32.7

Manual Integrations
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#48

Acenaphthylene

Concen: 5.09 ng

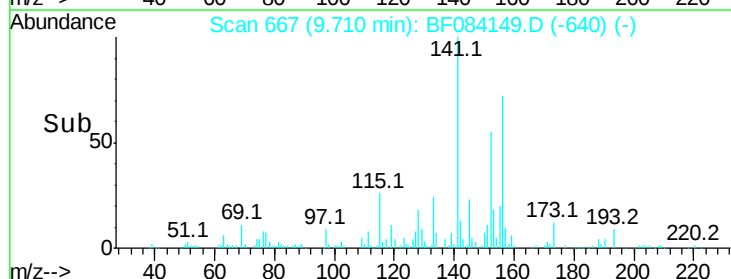
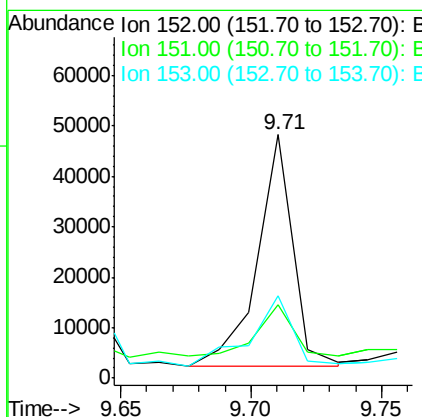
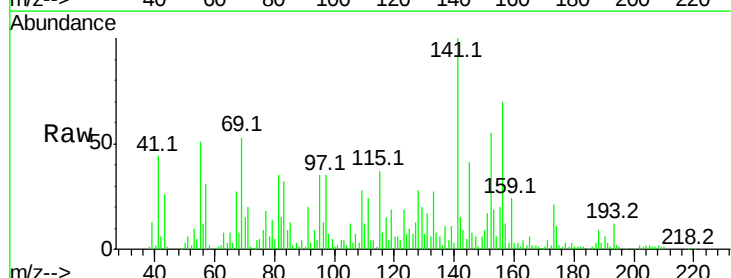
RT: 9.71 min Scan# 667

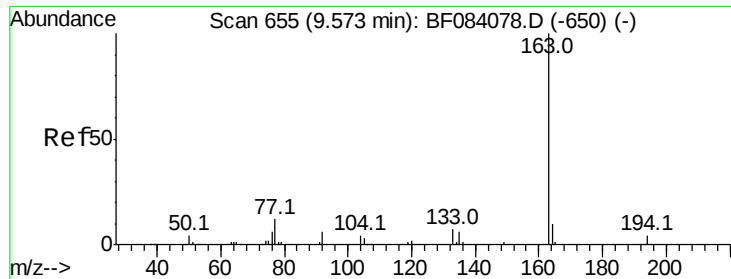
Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	152	Resp:	43498
Ion Ratio	Lower	Upper	
152	100		
151	30.1	16.3	24.5#
153	33.8	10.4	15.6#





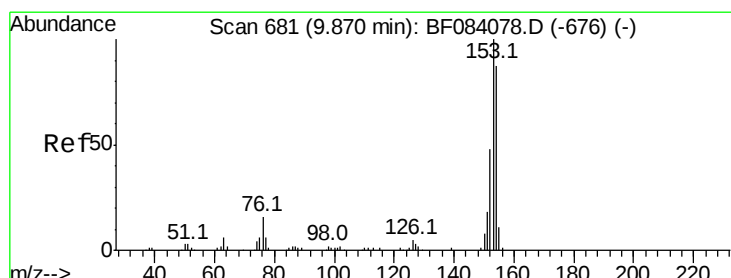
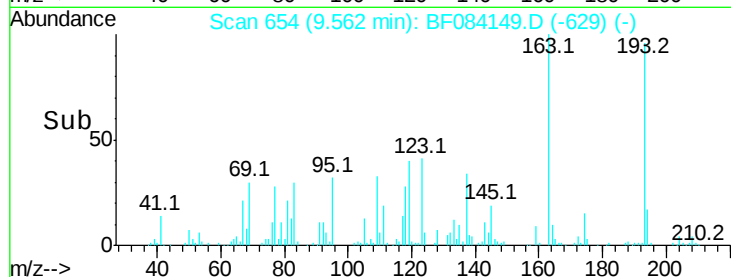
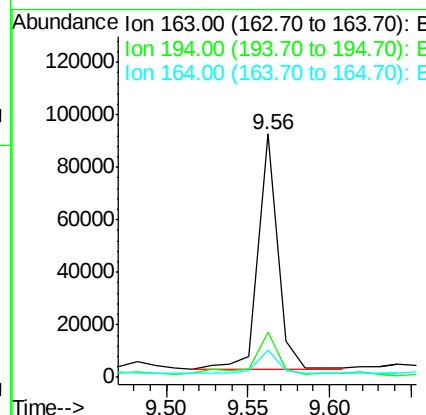
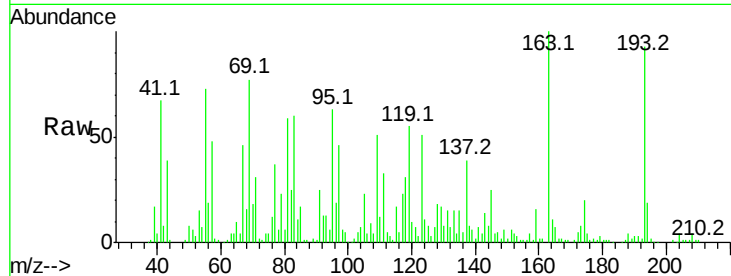
#49
Dimethylphthalate
Concen: 11.92 ng
RT: 9.56 min Scan# 654
Delta R.T. -0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Instrument :
BNA_F
ClientSampleId :
2SP-1(0-2)8E

Tot Ion	Ratio	Resp	Lower	Upper
163	100	74797		
194	18.8	8.0	12.0#	
164	11.3	8.0	12.0	

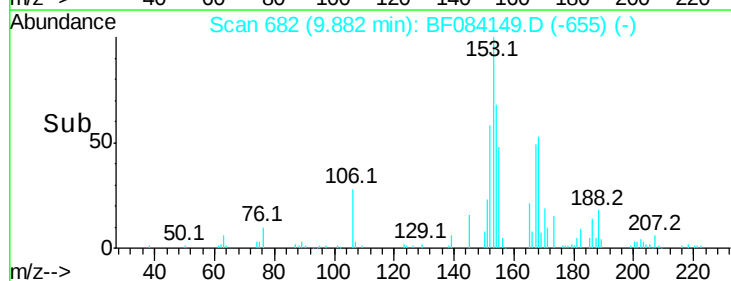
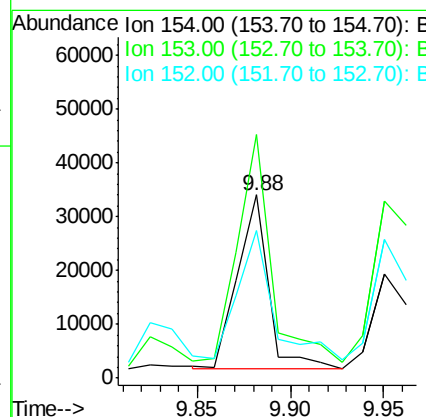
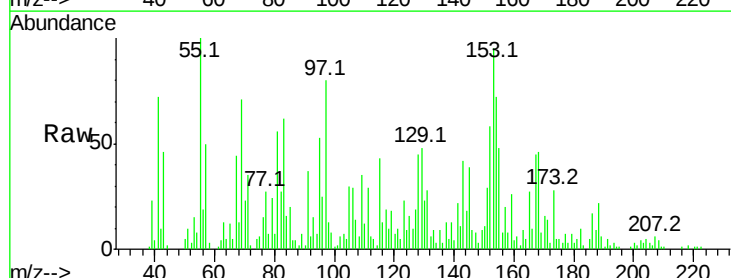
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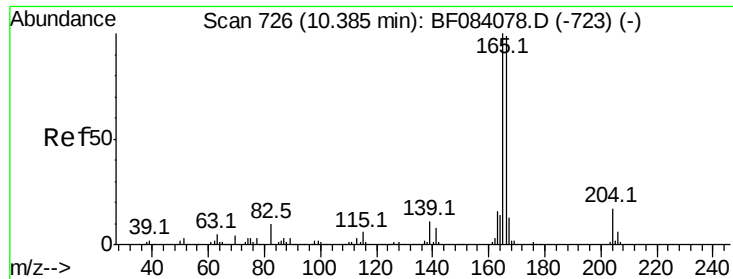
Sohil
12/28/2015 5:58:34 PM



#51
Acenaphthene
Concen: 7.62 ng
RT: 9.88 min Scan# 682
Delta R.T. 0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	37866		
153	132.8	91.5	137.3	
152	80.8	43.0	64.6#	





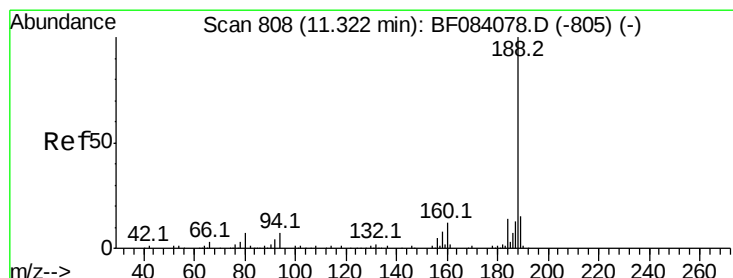
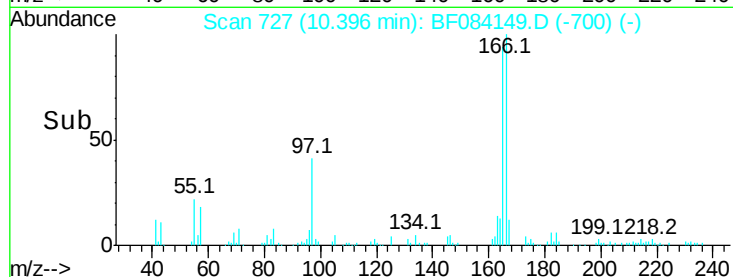
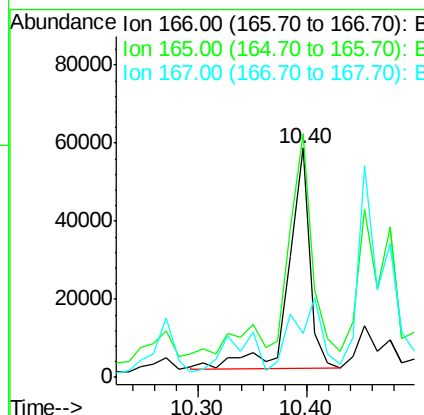
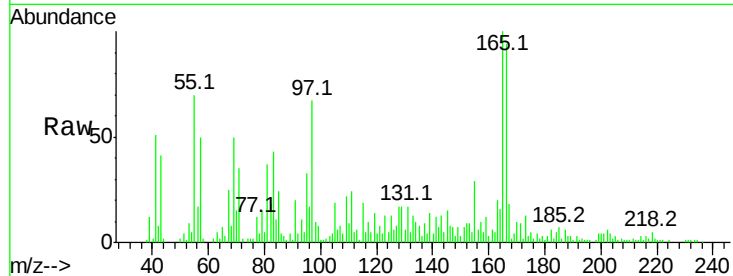
#57
Fluorene
Concen: 13.37 ng
RT: 10.40 min Scan# 727
Delta R.T. 0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Instrument :
BNA_F
ClientSampleId :
2SP-1(0-2)8E

Tot Ion:166 Resp: 77692
Ion Ratio Lower Upper
166 100
165 106.1 79.1 118.7
167 18.9 10.4 15.6#

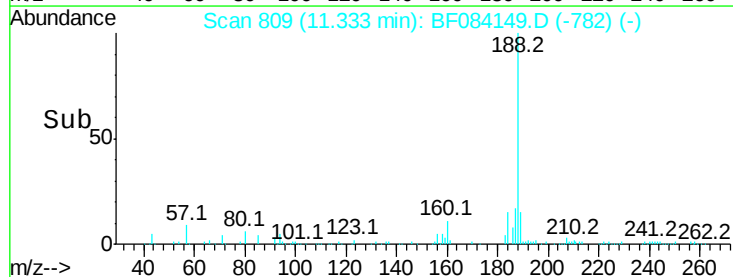
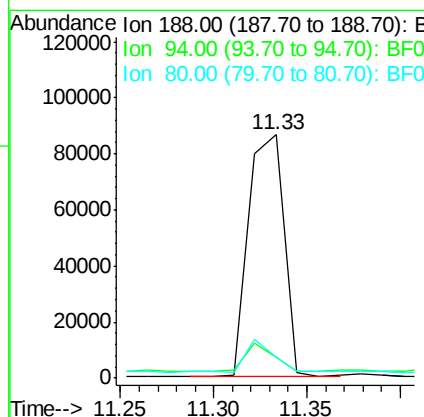
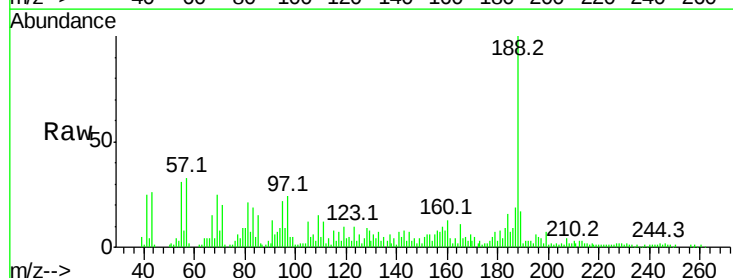
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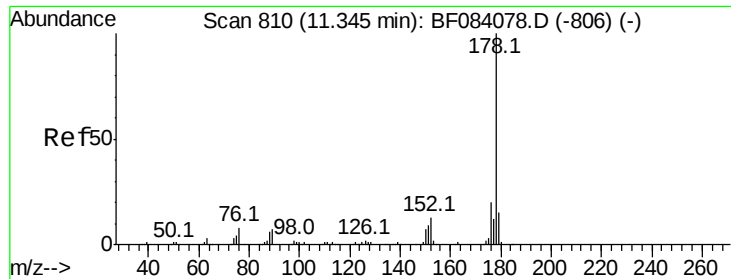
Sohil
12/28/2015 5:58:34 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.33 min Scan# 809
Delta R.T. 0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Tgt Ion:188 Resp: 115546
Ion Ratio Lower Upper
188 100
94 8.7 9.0 13.4#
80 8.8 9.6 14.4#





#70

Phenanthrene

Concen: 31.33 ng

RT: 11.36 min Scan# 811

Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

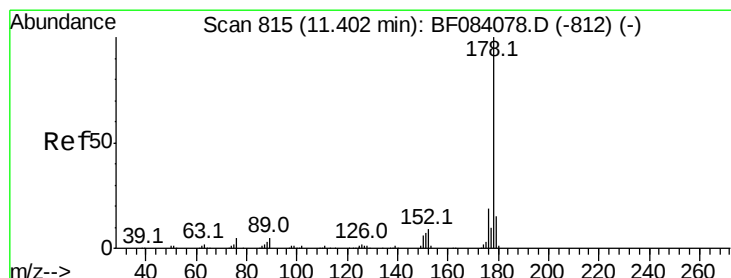
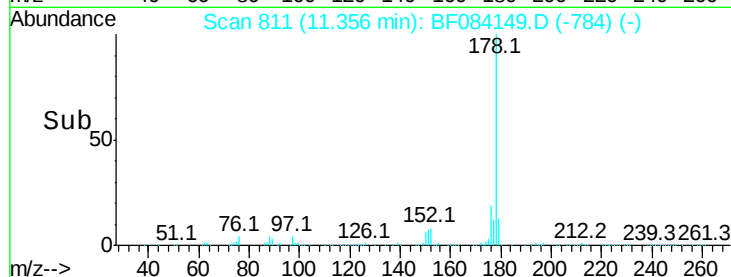
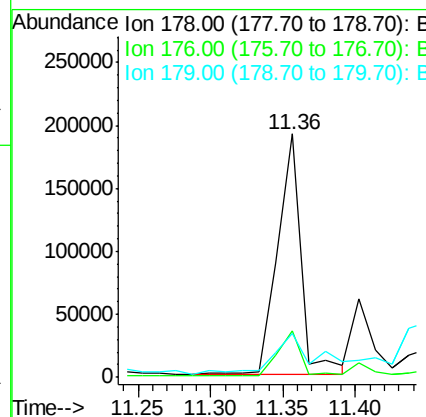
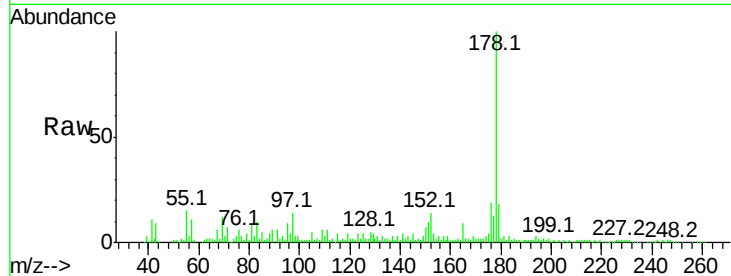
ClientSampleId :

2SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	18.0	12.0	18.0#

Manual Integrations
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#71

Anthracene

Concen: 8.71 ng m

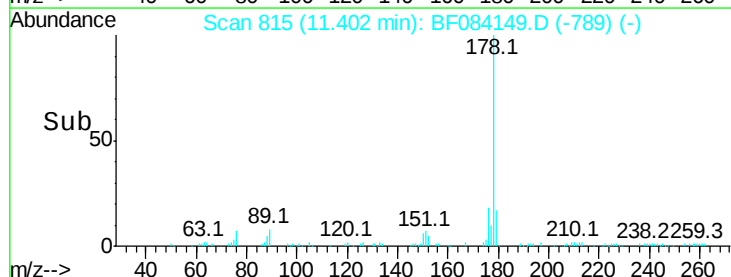
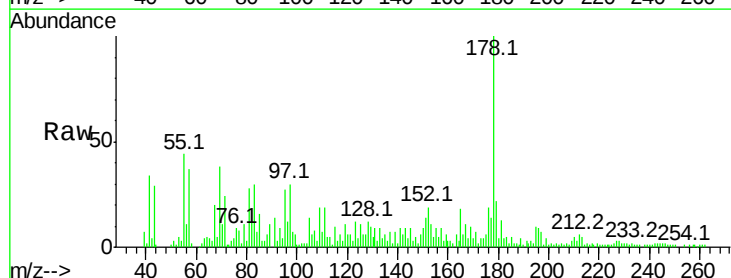
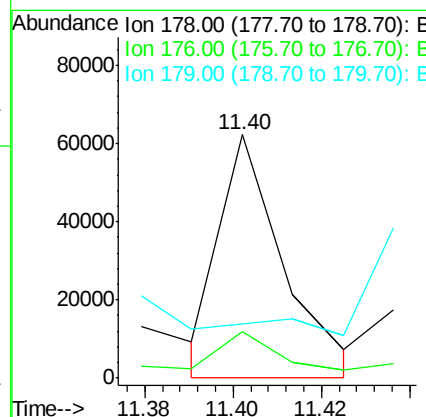
RT: 11.40 min Scan# 815

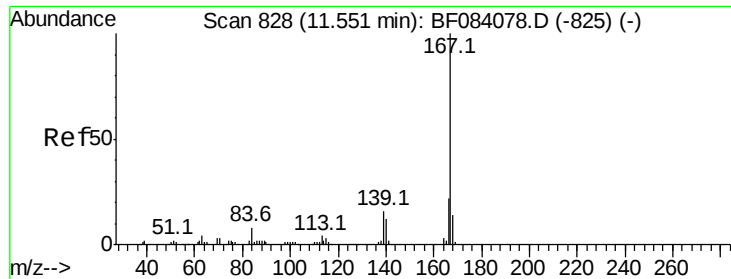
Delta R.T. -0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	22.2	12.5	18.7#





#72

Carbazole

Concen: 3.12 ng

RT: 11.56 min Scan# 829

Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

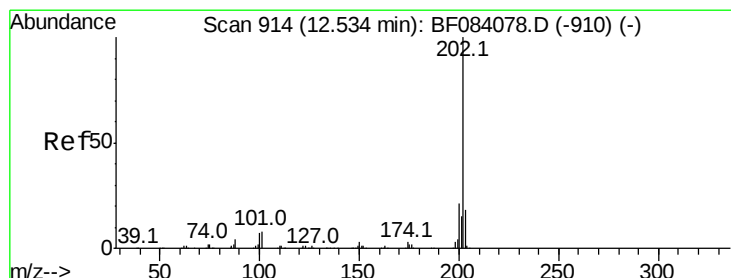
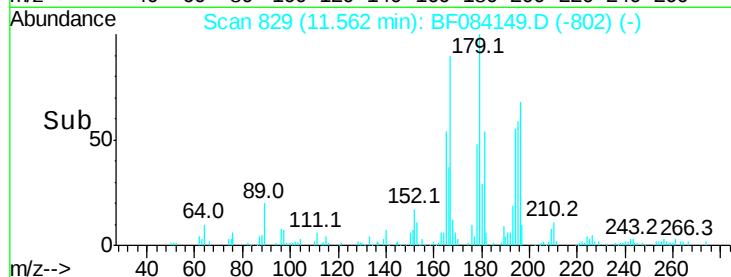
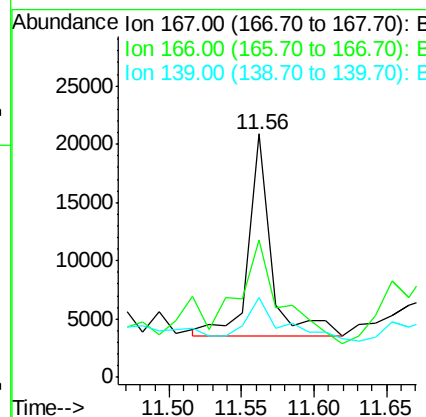
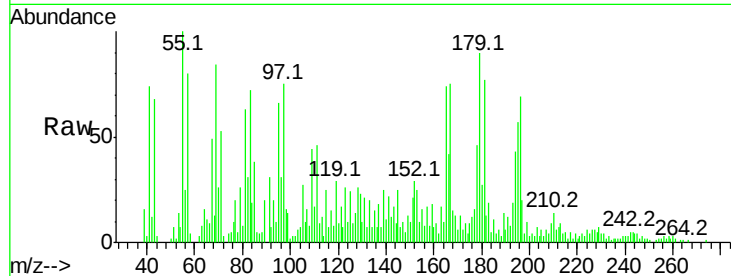
ClientSampleId :

2SP-1(0-2)8E

Tot Ion:	167	Resp:	18995
Ion Ratio	Lower	Upper	
167	100		
166	56.4	17.6	26.4#
139	32.6	11.8	17.8#

Manual Integrations
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#74

Fluoranthene

Concen: 28.86 ng

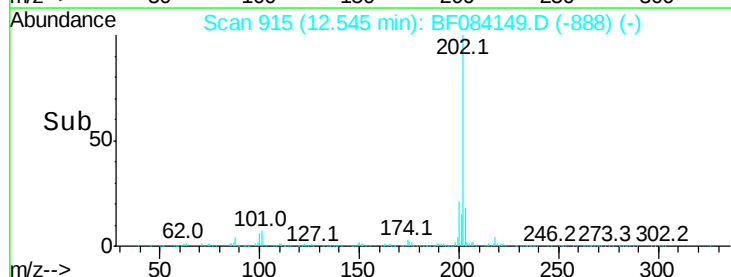
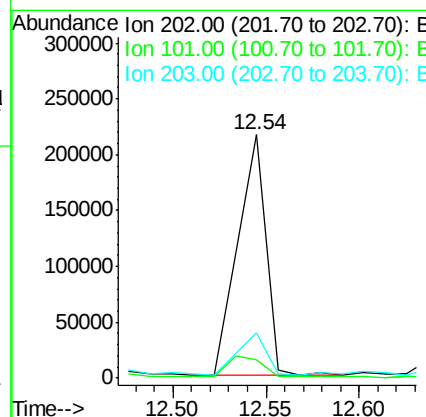
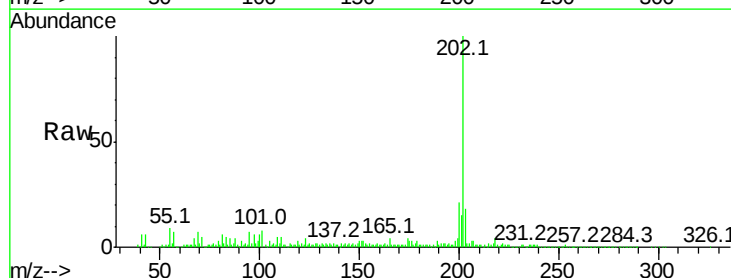
RT: 12.54 min Scan# 915

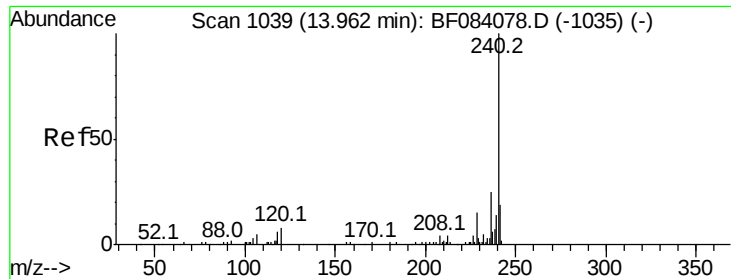
Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	202	Resp:	227524
Ion Ratio	Lower	Upper	
202	100		
101	7.6	0.0	32.8
203	18.4	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.96 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

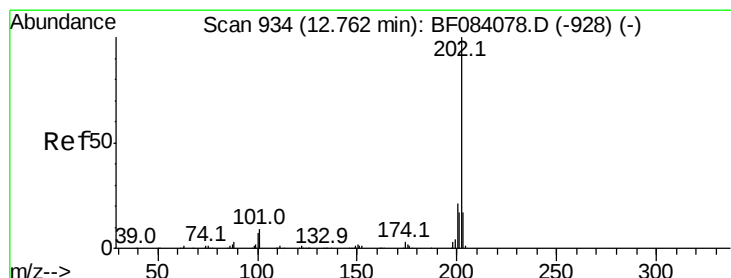
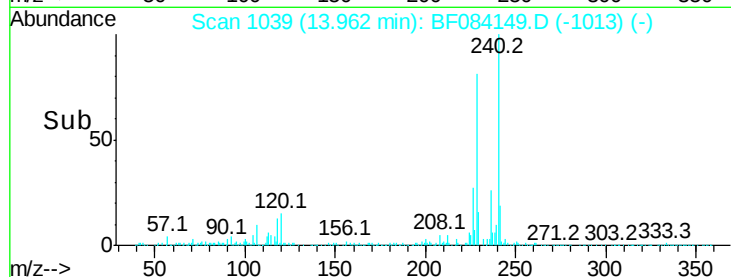
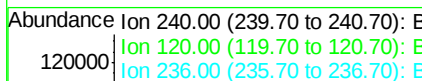
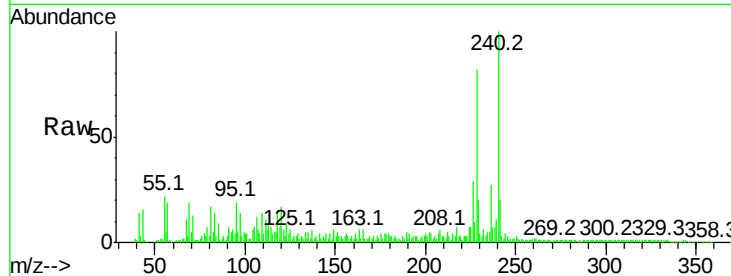
ClientSampleId :

2SP-1(0-2)8E

Tot Ion:	240	Resp:	102227
Ion Ratio	Lower	Upper	
240	100		
120	16.7	9.5	14.3#
236	26.8	20.6	31.0

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#77

Pyrene

Concen: 30.07 ng

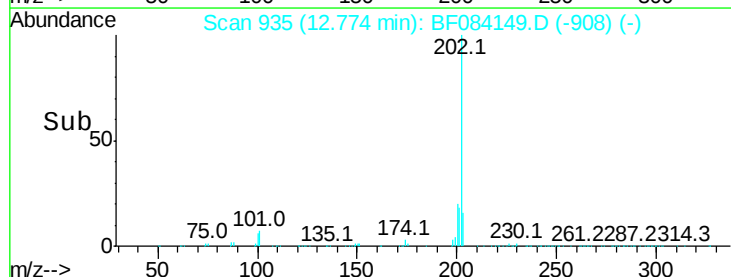
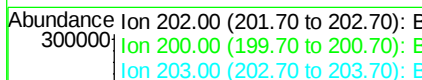
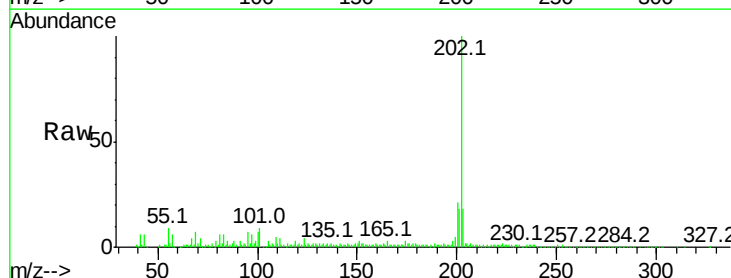
RT: 12.77 min Scan# 935

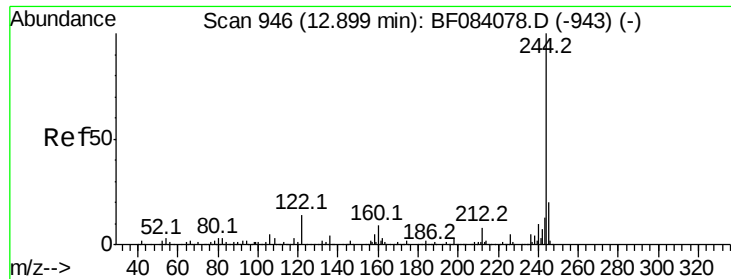
Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	202	Resp:	265201
Ion Ratio	Lower	Upper	
202	100		
200	20.6	17.2	25.8
203	18.2	14.3	21.5





#78

Terphenyl-d14

Concen: 49.63 ng

RT: 12.91 min Scan# 947

Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

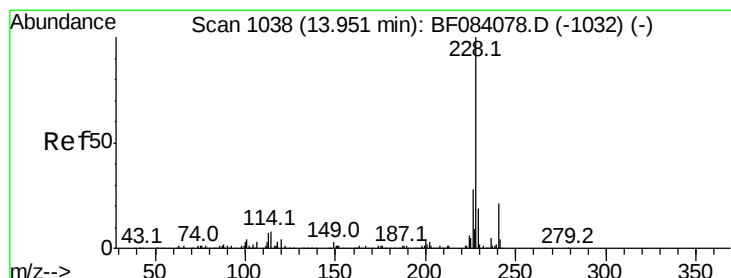
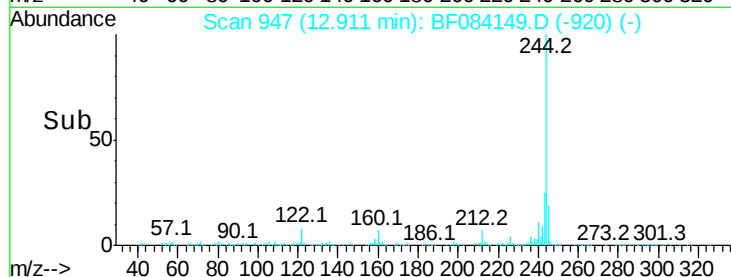
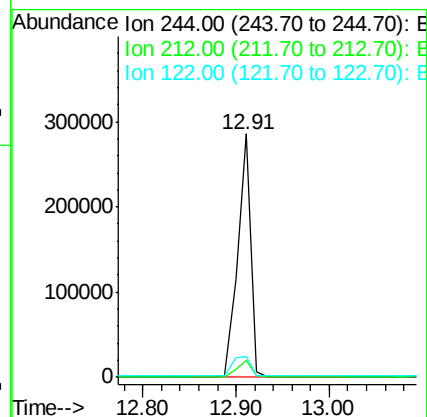
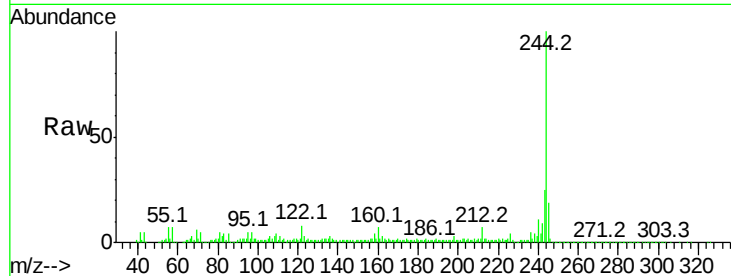
ClientSampleId :

2SP-1(0-2)8E

Tot Ion	Ratio	Resp	Lower	Upper
244	100	280381		
212	7.3		5.7	8.5
122	8.5		7.4	11.0

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#80

Benzo(a)anthracene

Concen: 21.46 ng

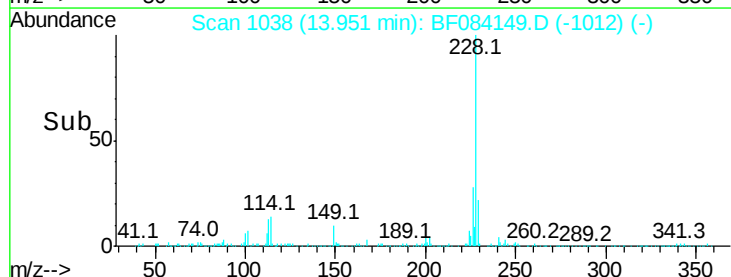
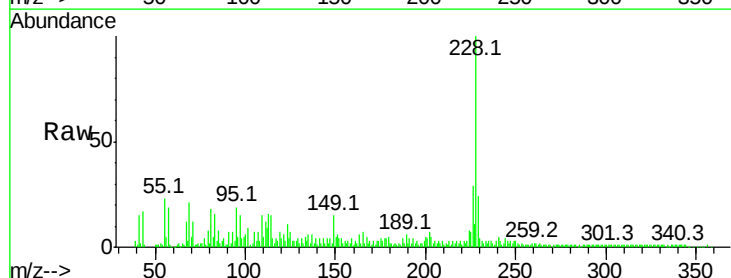
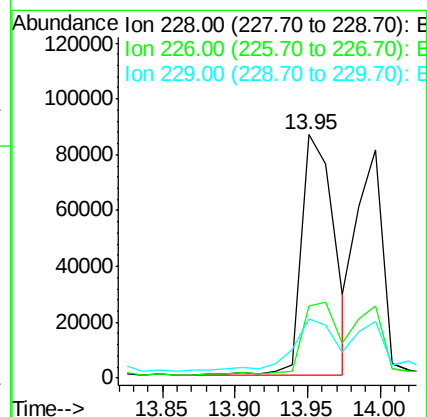
RT: 13.95 min Scan# 1038

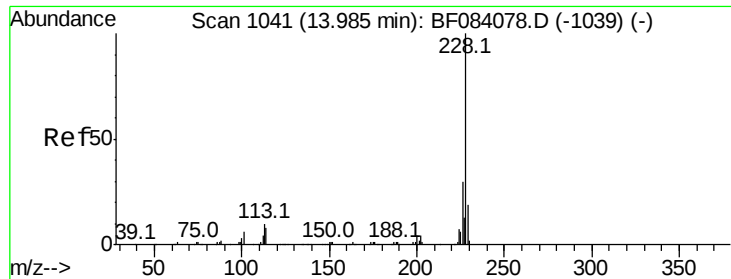
Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	134967		
226	29.4		21.8	32.6
229	24.4		15.8	23.8#





#82

Chrvsene

Concen: 18.35 ng/ml

RT: 14.00 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

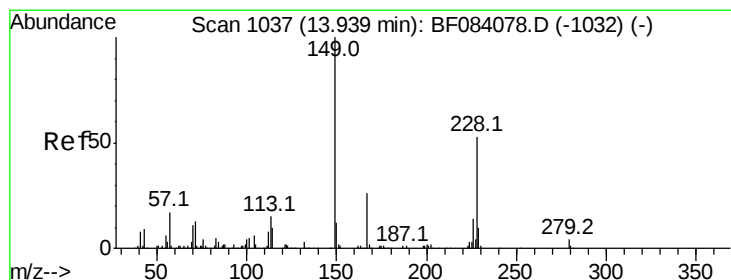
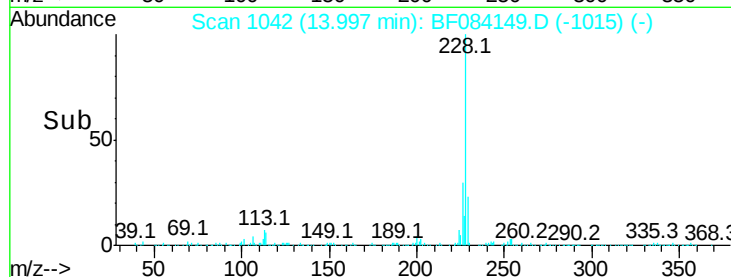
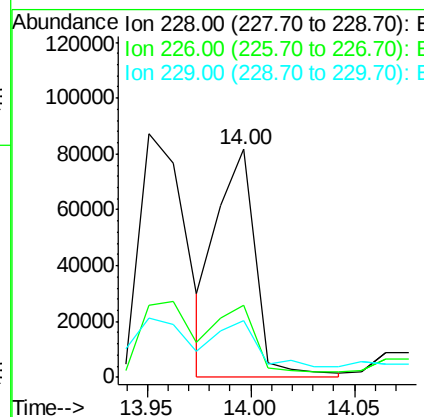
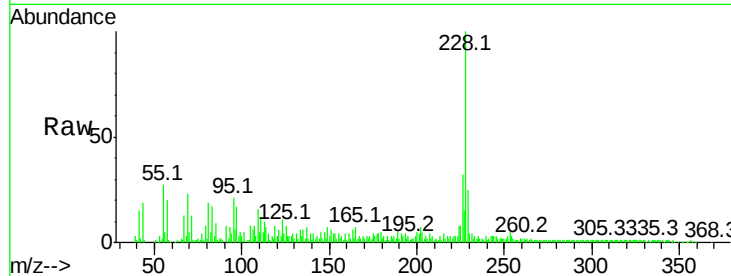
ClientSampleId :

2SP-1(0-2)8E

Tot Ion:	228	Resp:	106378
Ion Ratio	Lower	Upper	
228	100		
226	31.6	24.3	36.5
229	25.0	16.1	24.1#

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#83

Bis(2-ethylhexyl)phthalate

Concen: 3.72 ng/ml

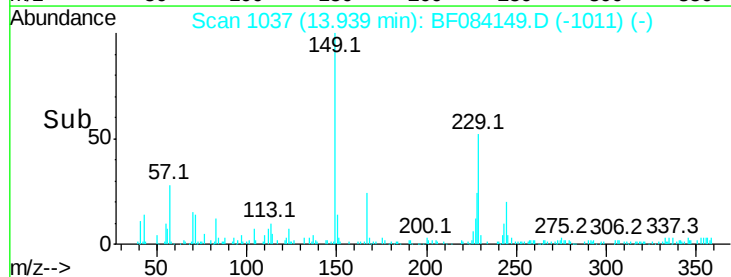
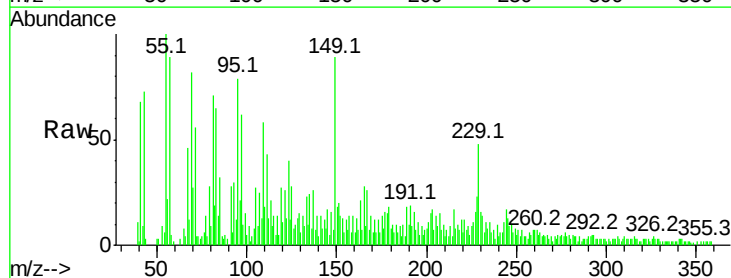
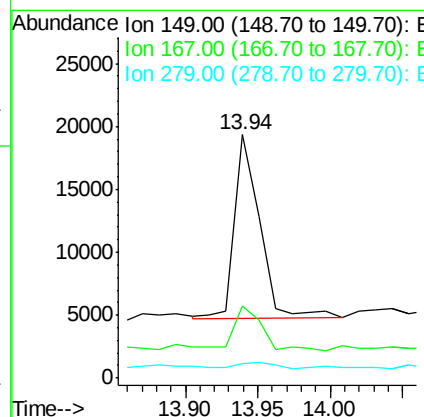
RT: 13.94 min Scan# 1037

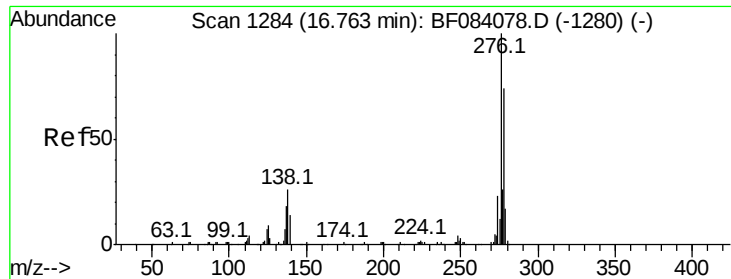
Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	149	Resp:	17545
Ion Ratio	Lower	Upper	
149	100		
167	29.4	19.7	29.5
279	6.1	1.8	2.6#





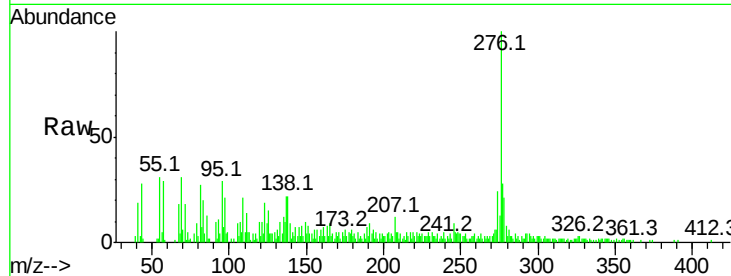
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.72 ng
RT: 16.81 min Scan# 1288
Delta R.T. 0.05 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Instrument :
BNA_F
ClientSampleId :
2SP-1(0-2)8E

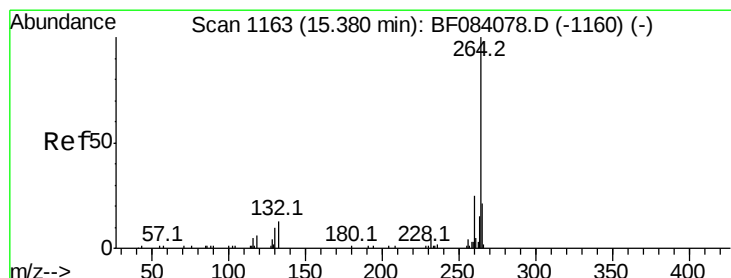
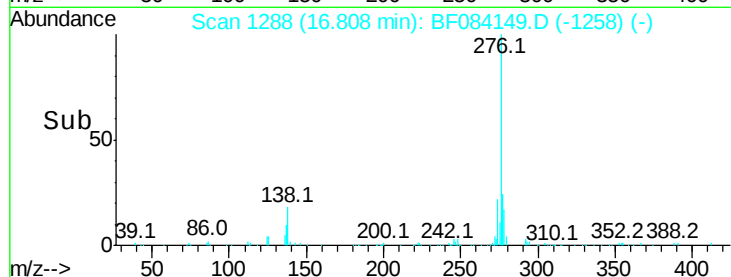
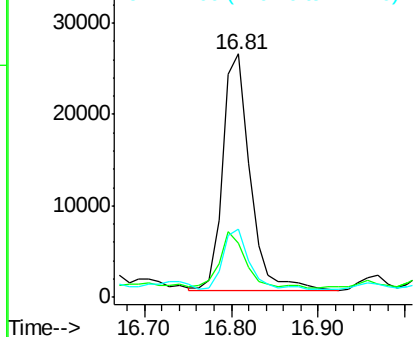
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.3	20.6	30.8
277	24.5	20.1	30.1

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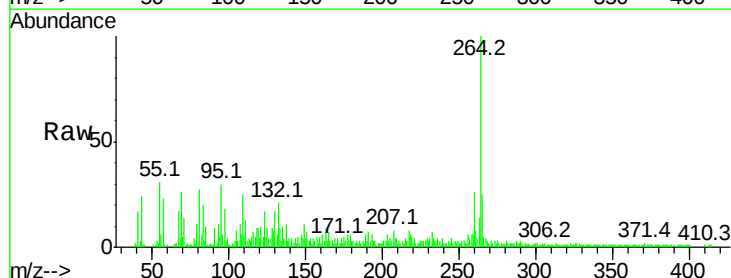


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

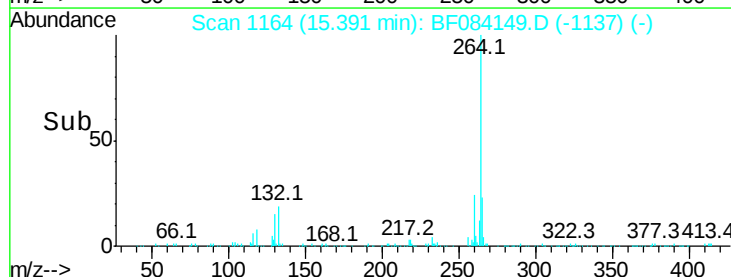
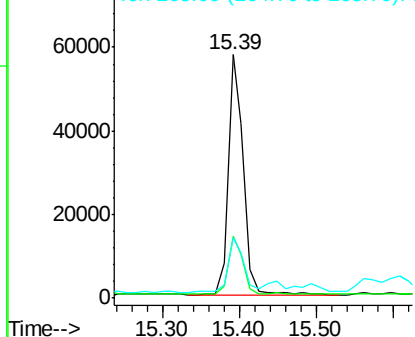


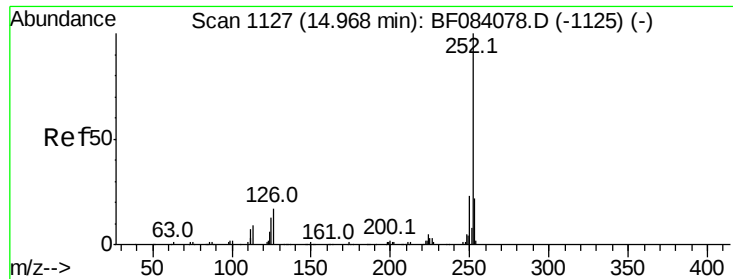
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1164
Delta R.T. 0.01 min
Lab File: BF084149.D
Acq: 26 Dec 2015 00:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.6	19.4	29.2
265	24.8	17.8	26.6



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: 21.18 ng m

RT: 14.99 min Scan# 1129

Delta R.T. 0.02 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

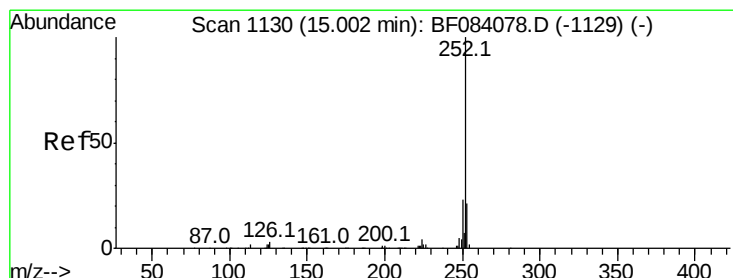
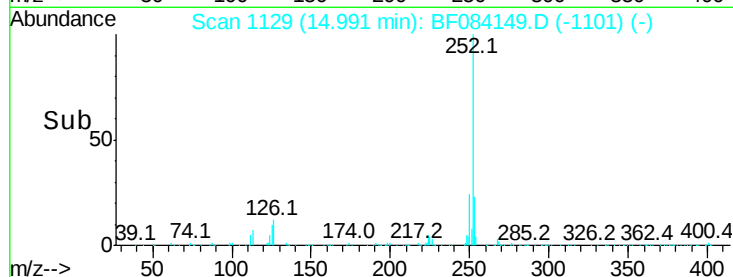
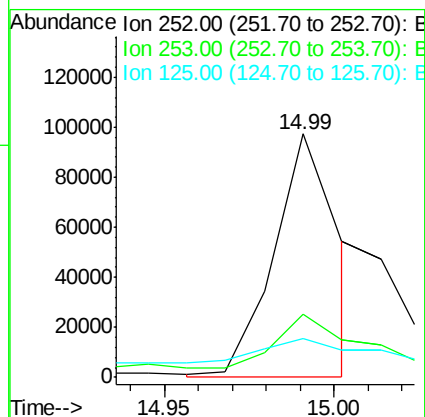
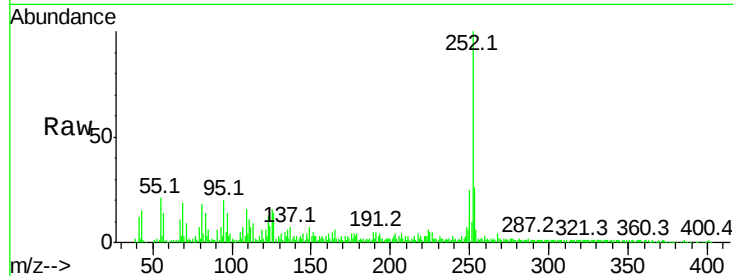
ClientSampleId :

2SP-1(0-2)8E

Tot Ion:	252	Resp:	129145
Ion Ratio	Lower	Upper	
252	100		
253	25.8	17.3	25.9
125	16.2	6.5	9.7#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 11.55 ng m

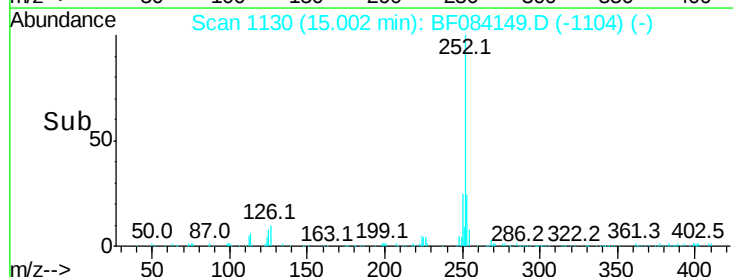
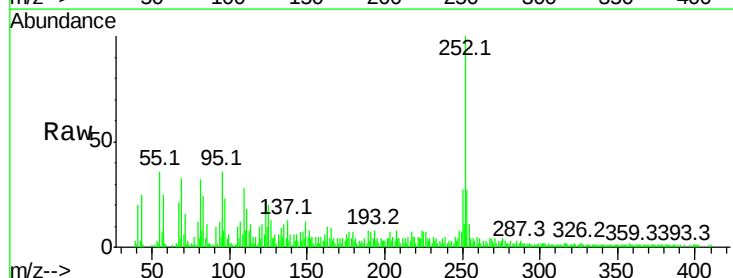
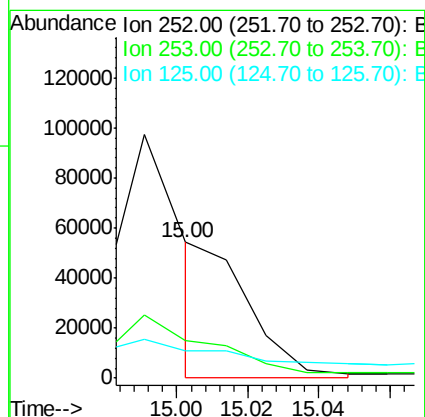
RT: 15.00 min Scan# 1130

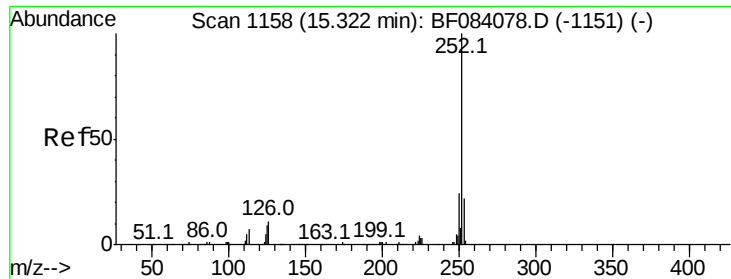
Delta R.T. 0.00 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	252	Resp:	47721
Ion Ratio	Lower	Upper	
252	100		
253	27.3	18.1	27.1#
125	20.0	9.0	13.6#





#89

Benzo(a)pyrene

Concen: 17.65 ng

RT: 15.33 min Scan# 1159

Delta R.T. 0.01 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Instrument :

BNA_F

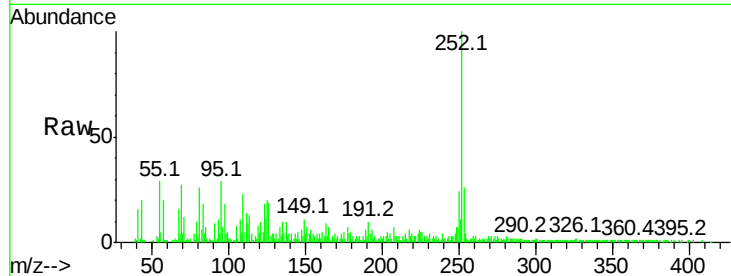
ClientSampleId :

2SP-1(0-2)8E

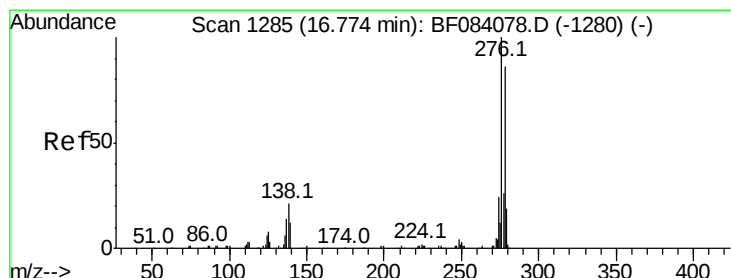
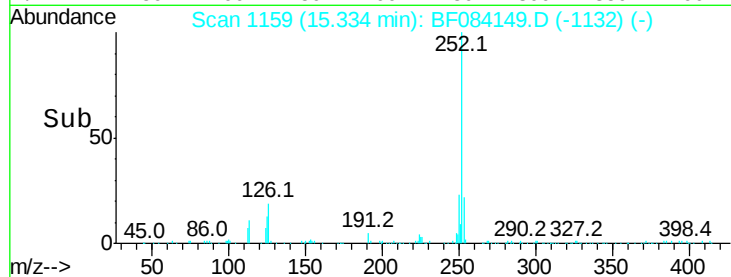
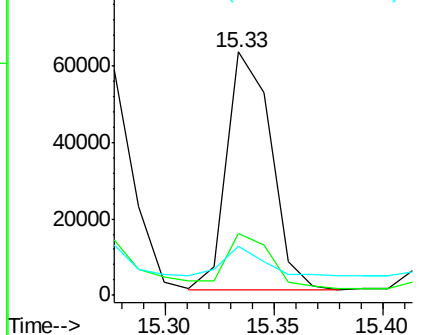
Tot Ion:	252	Resp:	88640
Ion Ratio	Lower	Upper	
252	100		
253	25.6	17.3	25.9
125	20.2	7.0	10.4#

Manual Integrations
APPROVED

Sohil
12/28/2015 5:58:34 PM



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



#90

Dibenzo(a,h)anthracene

Concen: 2.71 ng

RT: 16.80 min Scan# 1287

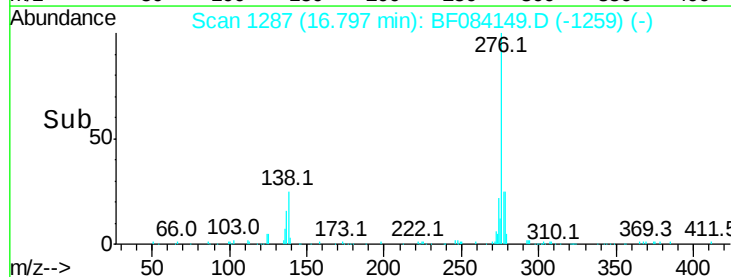
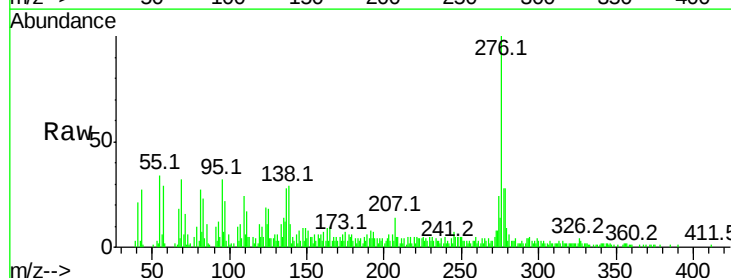
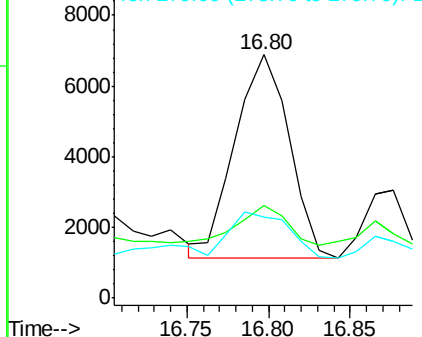
Delta R.T. 0.02 min

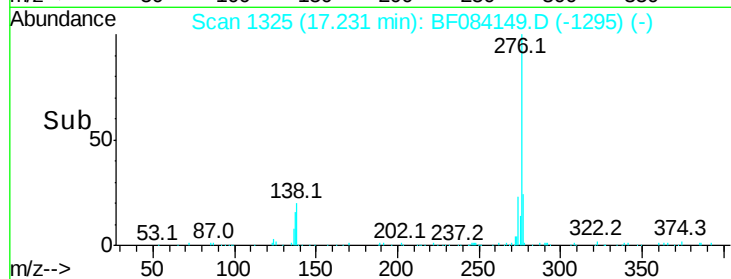
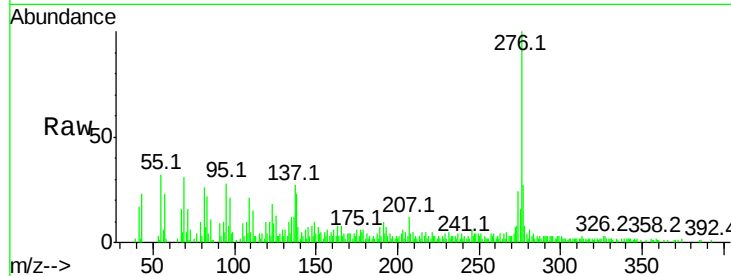
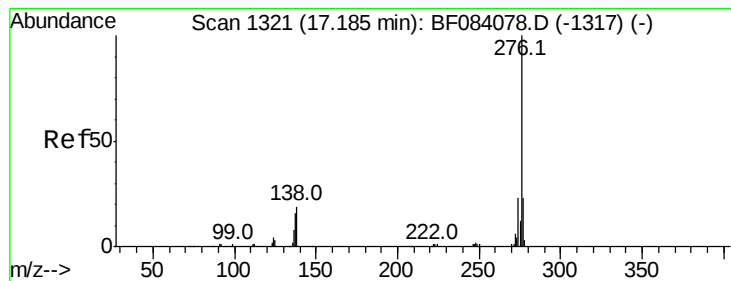
Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tgt Ion:	278	Resp:	13294
Ion Ratio	Lower	Upper	
278	100		
139	38.1	15.0	22.4#
279	33.1	18.9	28.3#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 11.66 ng

RT: 17.23 min Scan# 1325

Delta R.T. 0.05 min

Lab File: BF084149.D

Acq: 26 Dec 2015 00:56

Tot Ion:	276	Resp:	58327
Ion Ratio	Lower	Upper	
276	100		
277	26.7	18.8	28.2
138	23.2	17.8	26.6

Instrument :

BNA_F

ClientSampleId :

2SP-1(0-2)8E

Manual Integrations
APPROVED

Sohil
12/28/2015 5:58:34 PM

