

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089903.D
 Acq On : 25 Aug 2016 5:32
 Operator : UM/SJ
 Sample : H4566-04
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC2-S-5-02

Manual Integrations
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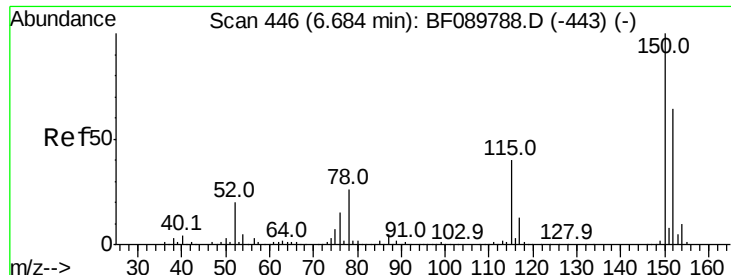
Quant Time: Aug 25 17:28:30 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	420309	20.00	ng	-0.01
21) Naphthalene-d8	7.95	136	1745939	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	771718	20.00	ng	-0.01
63) Phenanthrene-d10	11.19	188	1430248	20.00	ng	0.00
75) Chrysene-d12	13.85	240	818575	20.00	ng	-0.02
86) Perylene-d12	15.31	264	987113	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	2414356	98.51	ng	-0.01
7) Phenol-d6	6.31	99	2929078	97.36	ng	-0.01
23) Nitrobenzene-d5	7.23	82	1774636	63.15	ng	-0.02
41) 2,4,6-Tribromophenol	10.49	330	692321	94.40	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	3160303	71.97	ng	-0.01
78) Terphenyl-d14	12.78	244	2047802	56.60	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.32	94	98061	2.78	ng	78
31) Naphthalene	7.98	128	1151808	14.12	ng	98
37) 2-Methylnaphthalene	8.66	142	265640	5.03	ng	98
48) Acenaphthylene	9.56	152	154623	2.18	ng	97
49) Dimethylphthalate	9.44	163	1114317	20.51	ng	# 98
51) Acenaphthene	9.74	154	938376	19.99	ng	98
54) Dibenzofuran	9.91	168	769075	13.04	ng	92
57) Fluorene	10.25	166	891990	18.98	ng	99
70) Phenanthrene	11.22	178	7050838	97.61	ng	92
71) Anthracene	11.26	178	2061377	28.07	ng	98
72) Carbazole	11.42	167	1371715	20.83	ng	97
74) Fluoranthene	12.40	202	7594046	110.52	ng	91
77) Pvrene	12.63	202	5569584m	83.55	ng	
79) Butylbenzylphthalate	13.27	149	187098	6.21	ng	92
80) Benzo(a)anthracene	13.84	228	3209915	68.47	ng	98
82) Chrysene	13.87	228	2862415m	71.22	ng	
83) Bis(2-ethylhexyl)phthalate	13.86	149	151680	3.66	ng	98
85) Indeno(1,2,3-cd)pyrene	16.62	276	2144853	41.83	ng	# 95
87) Benzo(b)fluoranthene	14.94	252	4736172m	87.22	ng	
88) Benzo(k)fluoranthene	14.96	252	475066m	9.64	ng	
89) Benzo(a)pyrene	15.27	252	2778711	54.06	ng	96
90) Dibenzo(a,h)anthracene	16.63	278	564380	10.12	ng	94
91) Benzo(g,h,i)perylene	17.01	276	2041607	34.75	ng	98

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



#1

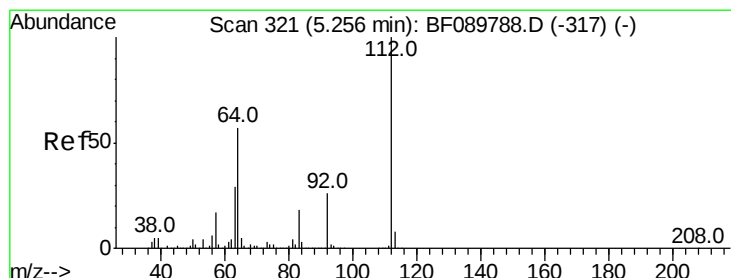
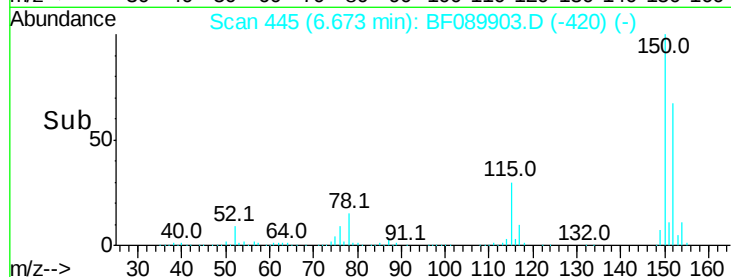
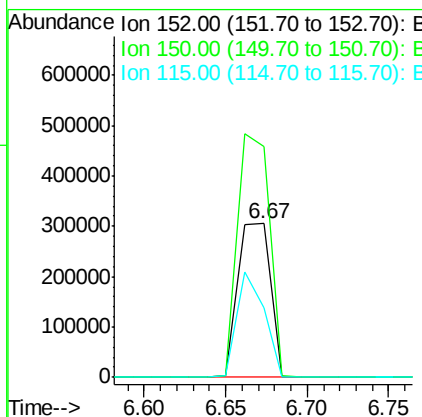
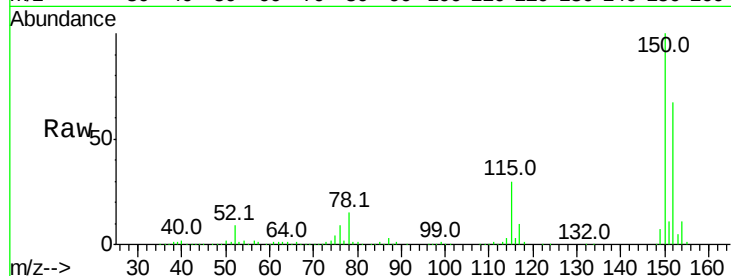
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.67 min Scan# 445
Delta R.T. -0.01 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.8	125.3	187.9
115	45.6	40.9	61.3

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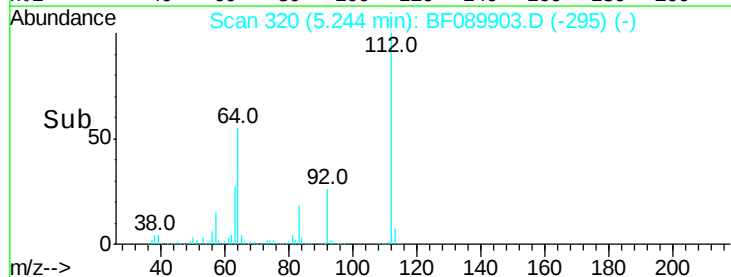
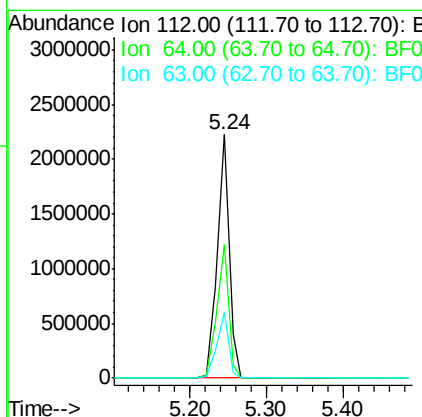
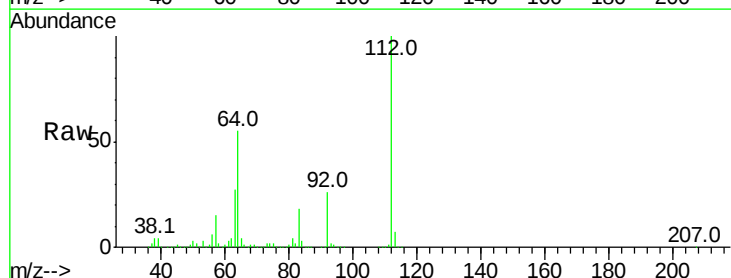
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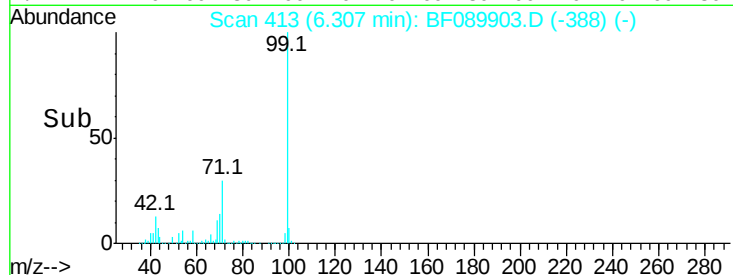
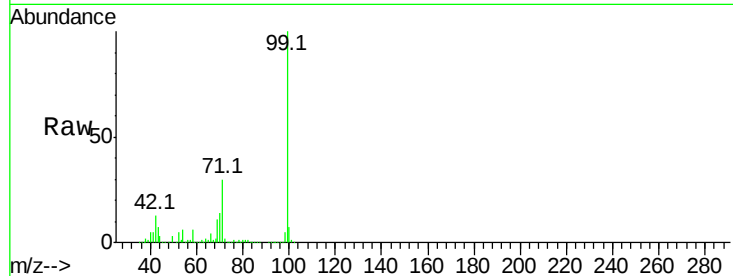
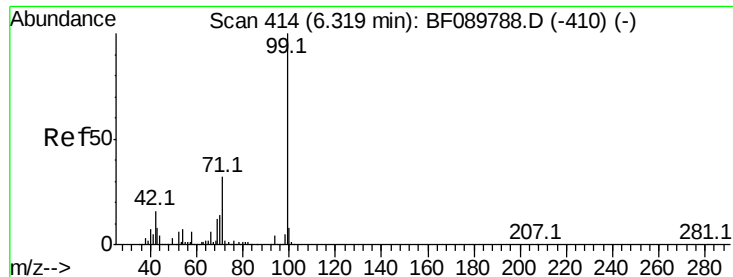


#5

2-Fluorophenol
Concen: 98.51 ng
RT: 5.24 min Scan# 320
Delta R.T. -0.01 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	45.0	67.4
63	27.0	23.1	34.7





#7

Phenol-d6

Concen: 97.36 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Tot Ion:	99	Resp:	2929078
Ion	Ratio	Lower	Upper
99	100		
42	13.5	12.2	18.4
71	30.3	23.8	35.8

Instrument :

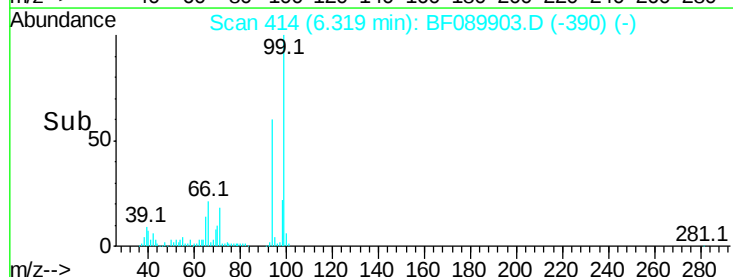
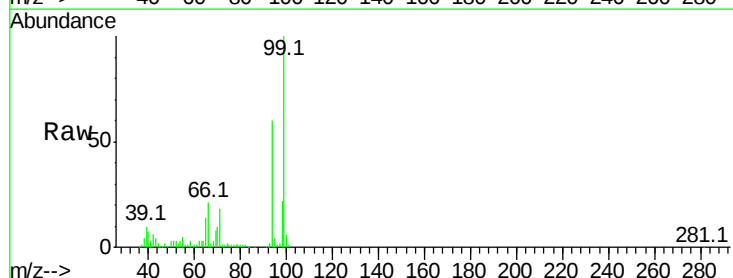
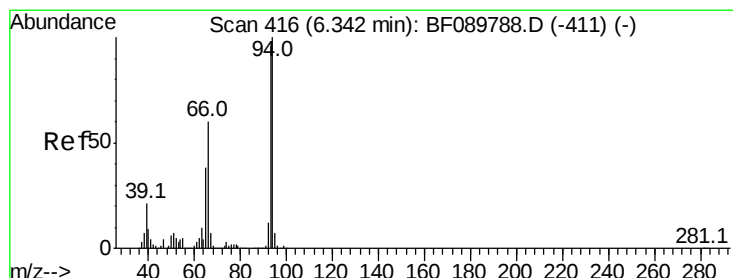
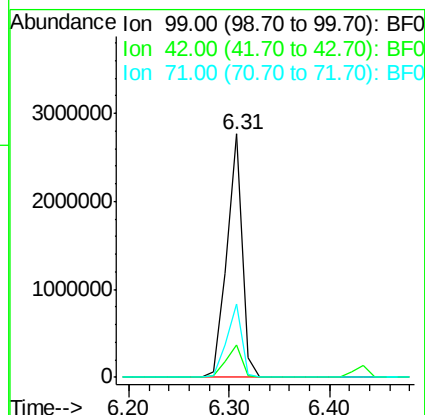
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 2.78 ng

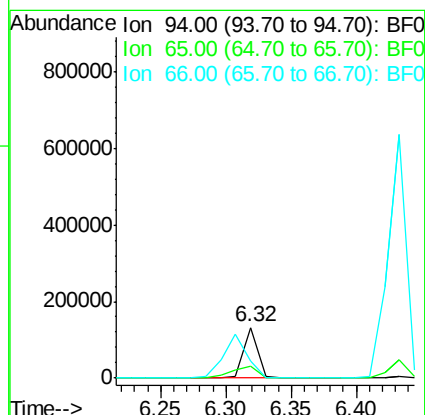
RT: 6.32 min Scan# 414

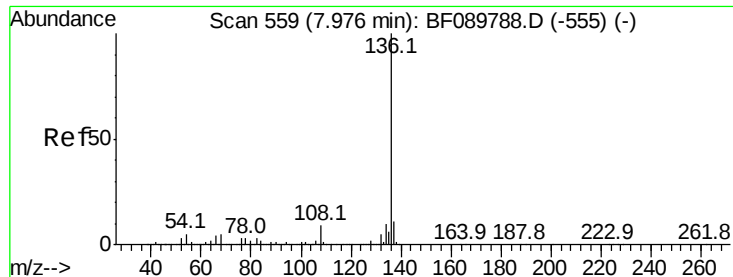
Delta R.T. -0.02 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Tgt Ion:	94	Resp:	98061
Ion	Ratio	Lower	Upper
94	100		
65	23.2	14.0	54.0
66	34.3	31.2	71.2





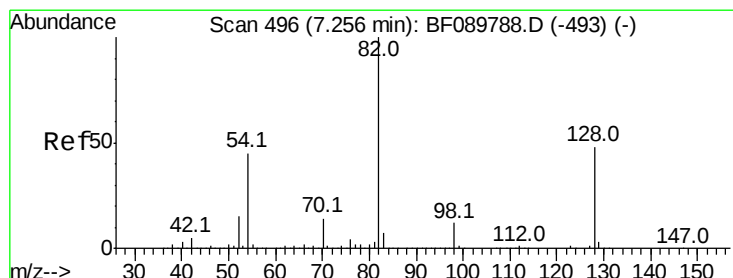
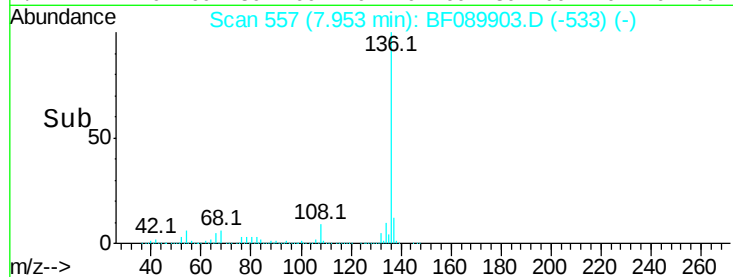
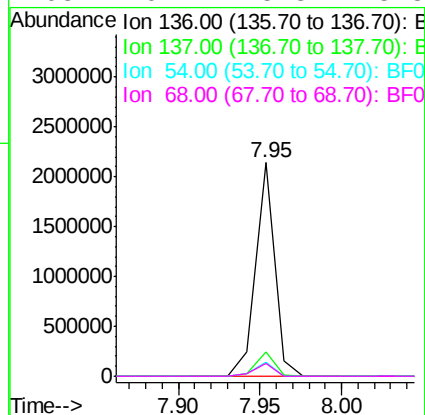
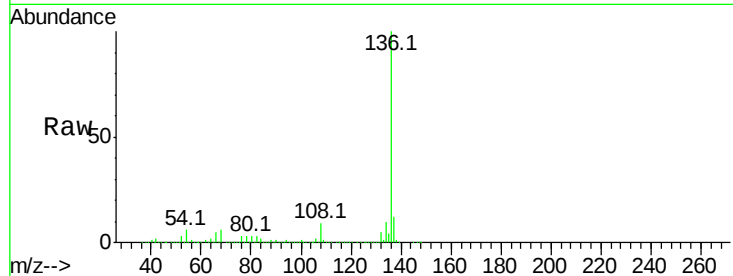
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 557
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.2	13.8
54	6.4	7.2	10.8
68	6.2	5.8	8.8

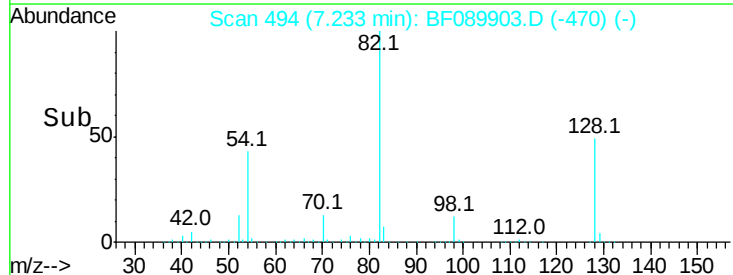
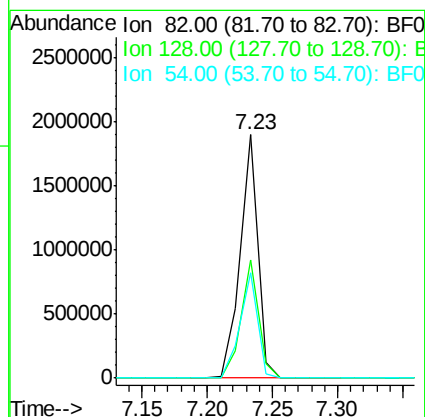
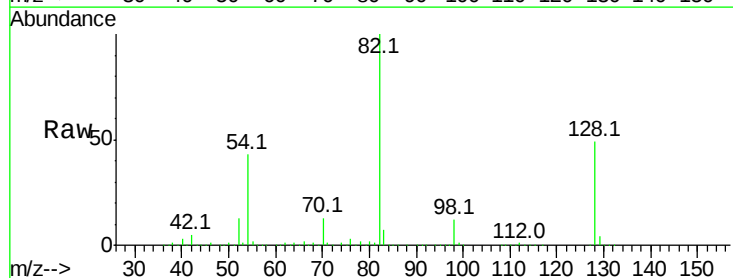
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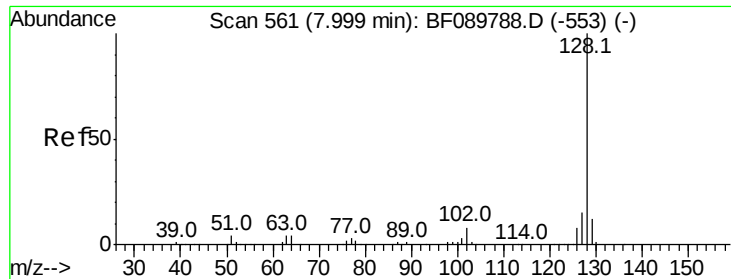
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#23
Nitrobenzene-d5
Concen: 63.15 ng
RT: 7.23 min Scan# 494
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.7	34.4	51.6
54	43.5	40.3	60.5





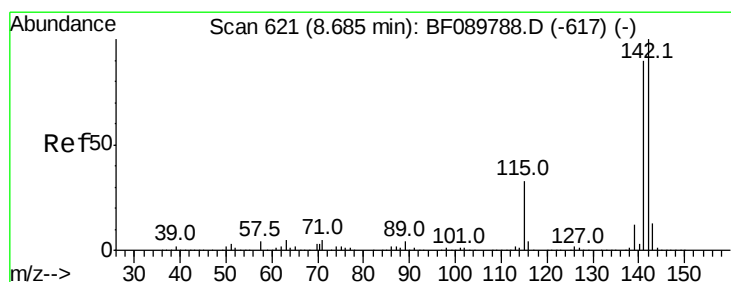
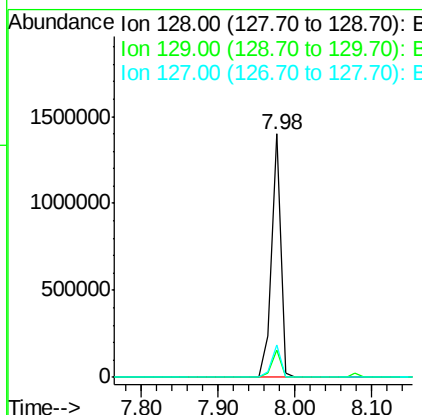
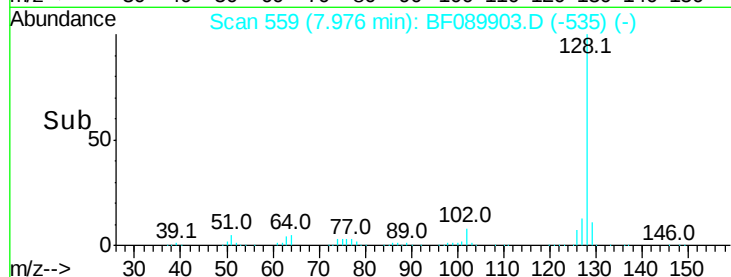
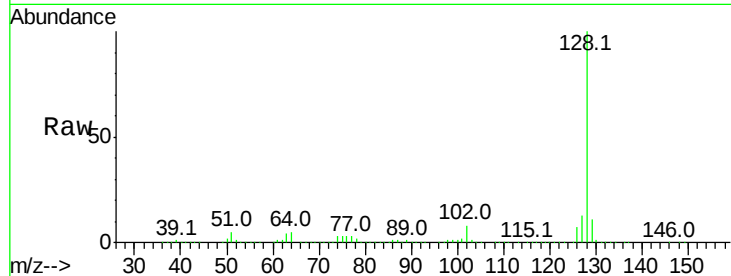
#31
Naphthalene
Concen: 14.12 ng
RT: 7.98 min Scan# 559
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion:128 Resp: 1151808
Ion Ratio Lower Upper
128 100
129 11.4 9.5 14.3
127 13.1 11.3 16.9

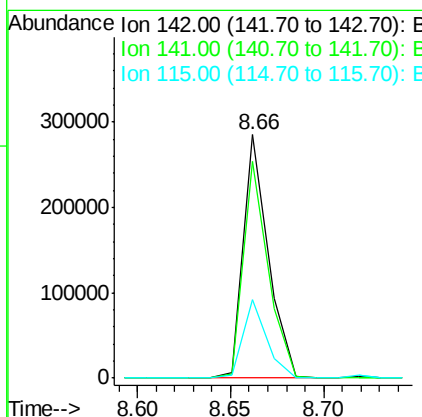
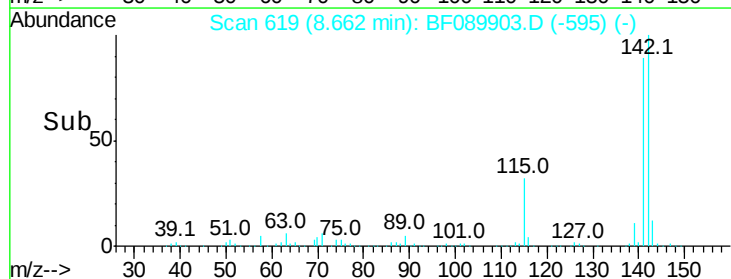
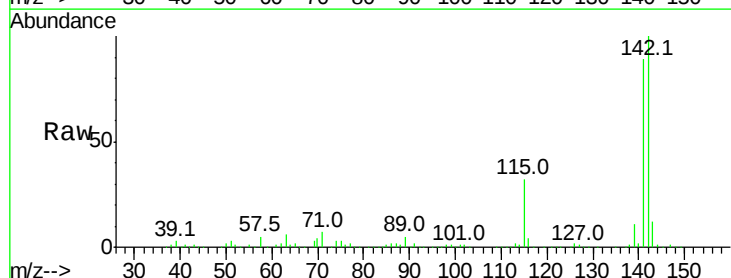
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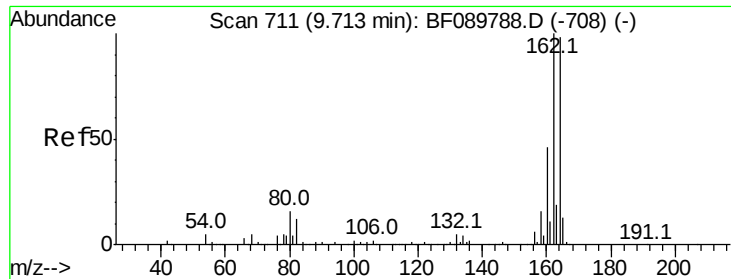
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#37
2-Methylnaphthalene
Concen: 5.03 ng
RT: 8.66 min Scan# 619
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion:142 Resp: 265640
Ion Ratio Lower Upper
142 100
141 88.9 71.4 107.2
115 32.0 22.7 34.1





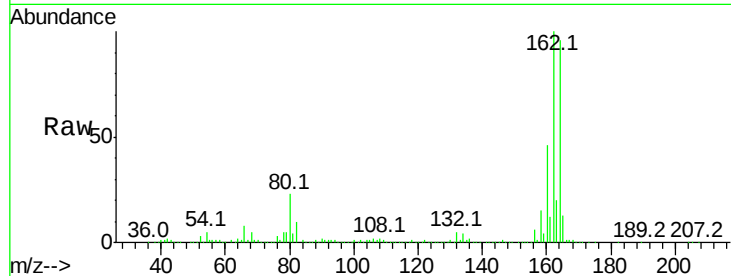
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: BF089903.D
 Acq: 25 Aug 2016 5:32

Instrument :
 BNA_F
 ClientSampleId :
 WC2-S-5-02

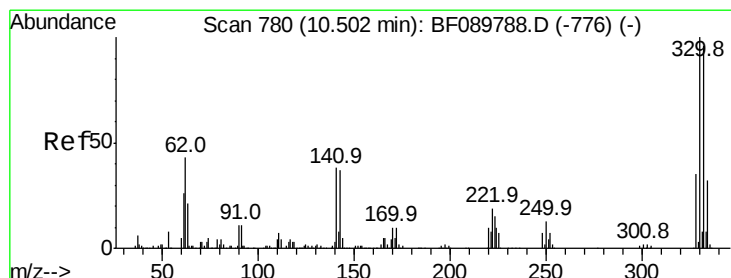
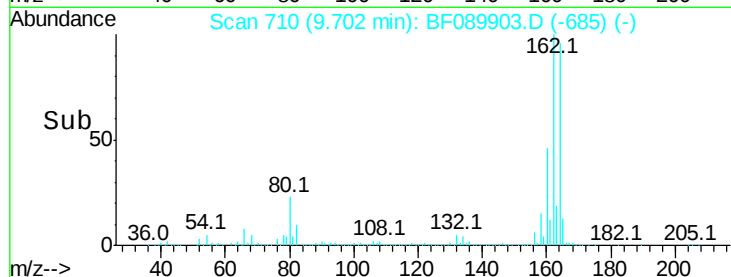
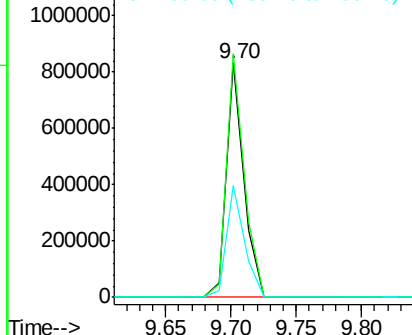
Tot Ion	Ratio	Resp	Lower	Upper
164	100	771718		
162	103.9	81.4	122.2	
160	47.5	37.8	56.6	

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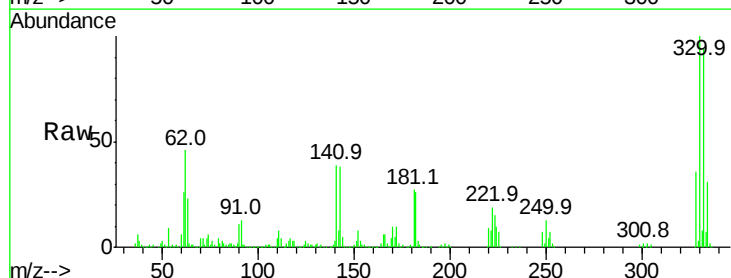


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

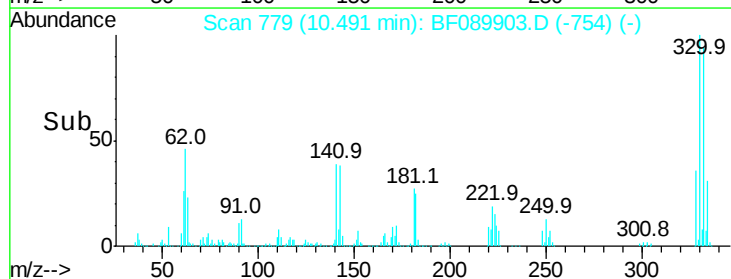
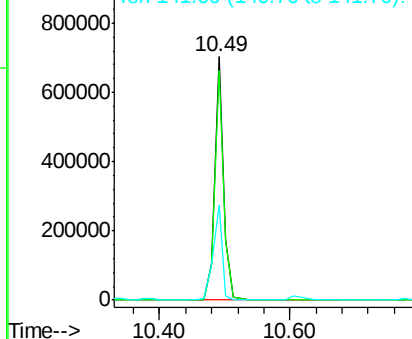


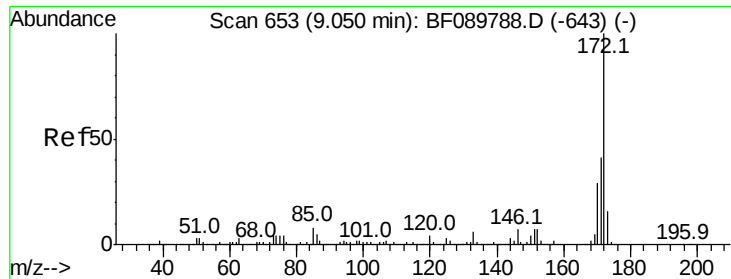
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 2,4,6-Tribromophenol
 Concen: 94.40 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.01 min
 Lab File: BF089903.D
 Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	692321		
332	95.3	76.7	115.1	
141	39.1	30.2	45.2	



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: 71.97 ng

RT: 9.04 min Scan# 652

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Instrument :

BNA_F

ClientSampleId :

WC2-S-5-02

Tot Ion:172 Resp: 3160303

Ion Ratio Lower Upper

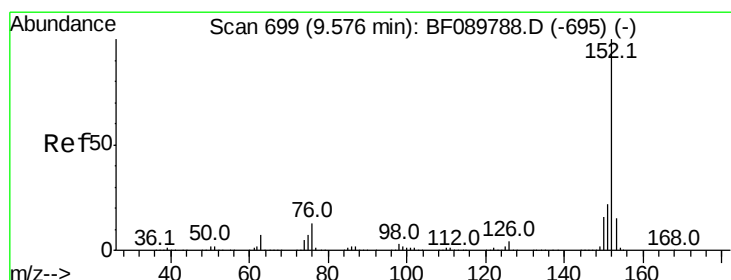
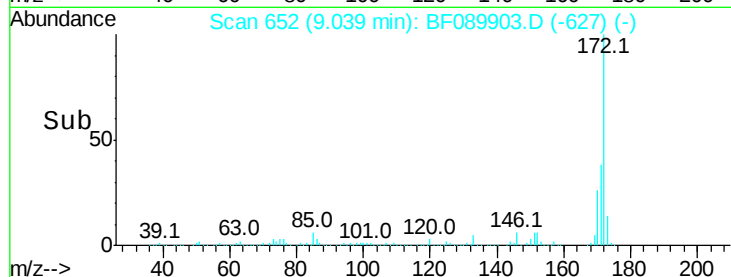
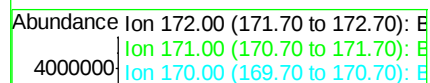
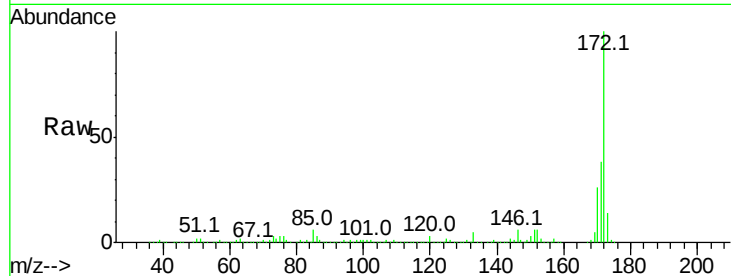
172 100

171 37.6 30.5 45.7

170 25.7 20.6 31.0

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#48

Acenaphthylene

Concen: 2.18 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

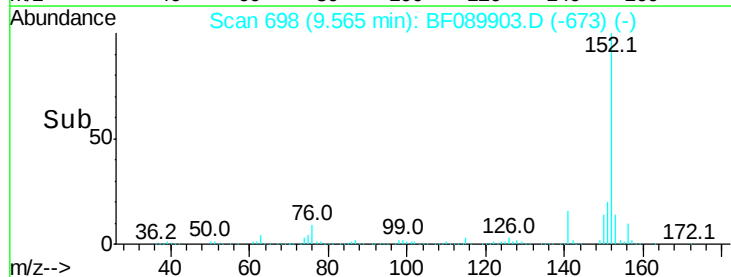
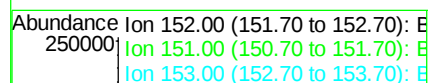
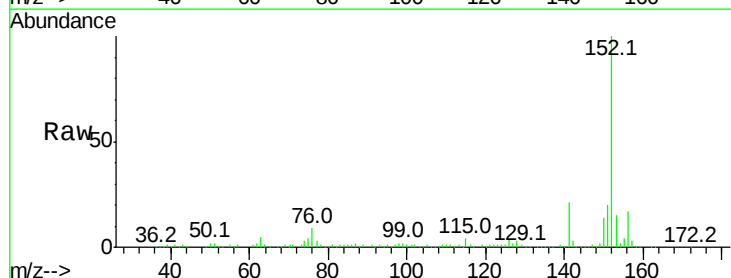
Tgt Ion:152 Resp: 154623

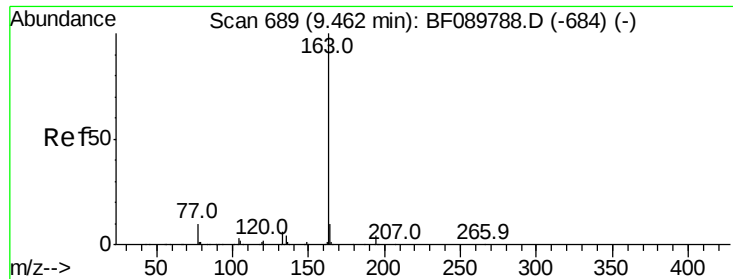
Ion Ratio Lower Upper

152 100

151 19.8 17.1 25.7

153 14.8 11.2 16.8





#49

Dimethylphthalate

Concen: 20.51 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Instrument :

BNA_F

ClientSampleId :

WC2-S-5-02

Tot Ion:163 Resp: 1114317

Ion Ratio Lower Upper

163 100

194 3.9 2.6 3.8#

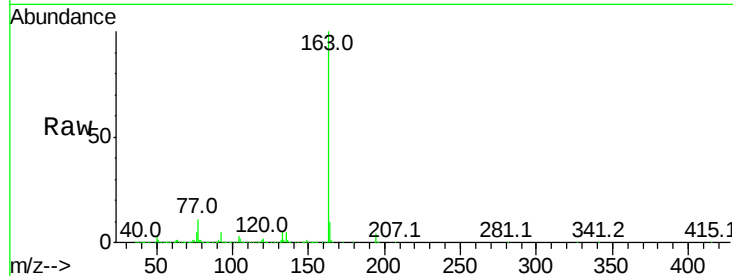
164 9.9 8.6 12.8

Manual Integrations

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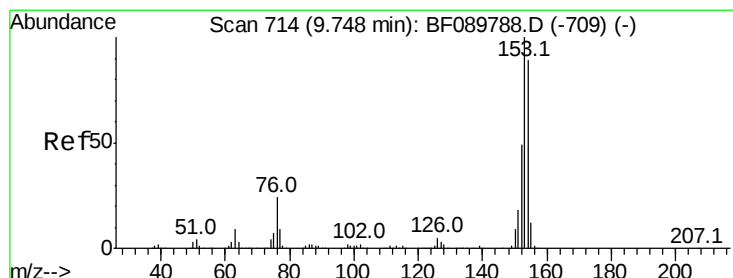
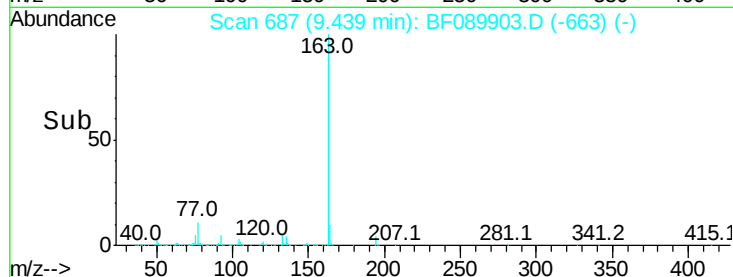
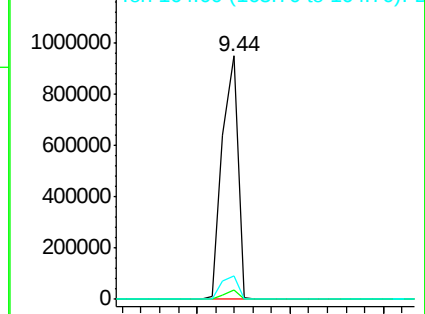
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Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 19.99 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

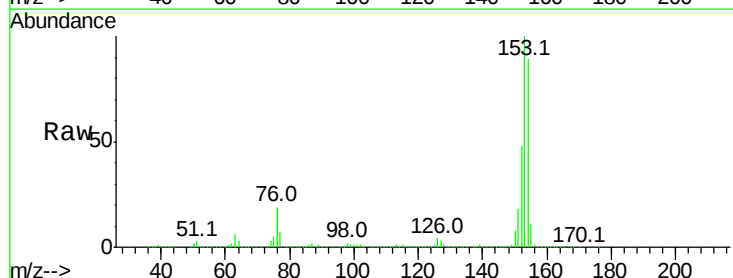
Tgt Ion:154 Resp: 938376

Ion Ratio Lower Upper

154 100

153 112.1 90.5 135.7

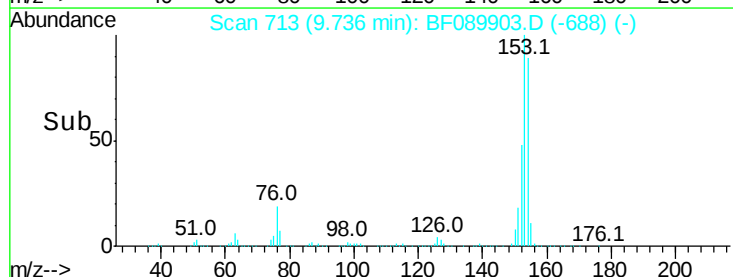
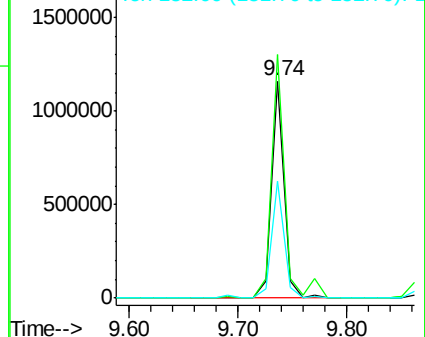
152 53.7 44.6 67.0

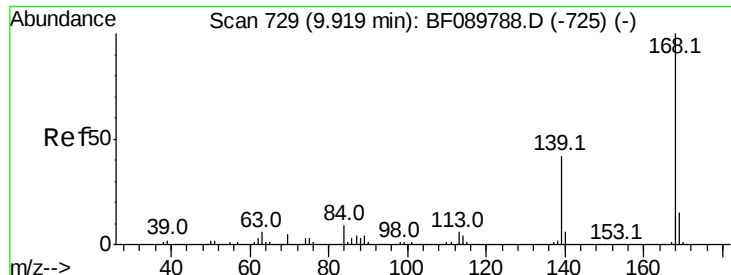


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 13.04 ng

RT: 9.91 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Instrument :

BNA_F

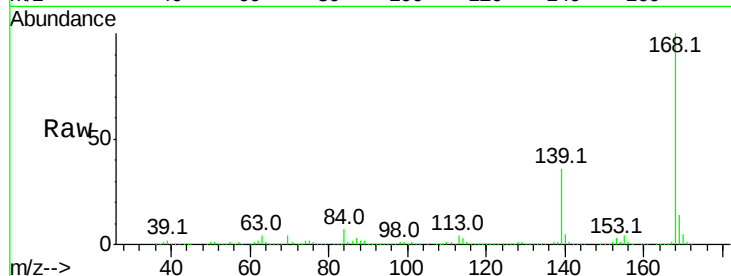
ClientSampleId :

WC2-S-5-02

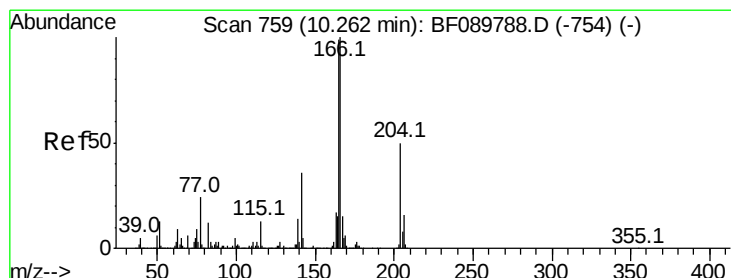
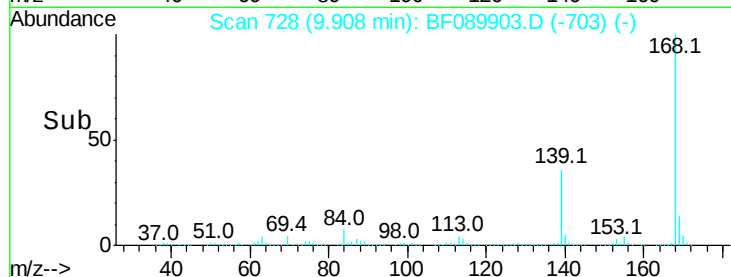
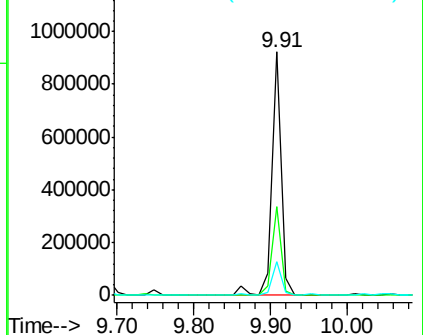
Tot Ion:	168	Resp:	769075
Ion Ratio	Lower	Upper	
168	100		
139	36.5	34.6	52.0
169	14.0	11.5	17.3

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



#57

Fluorene

Concen: 18.98 ng

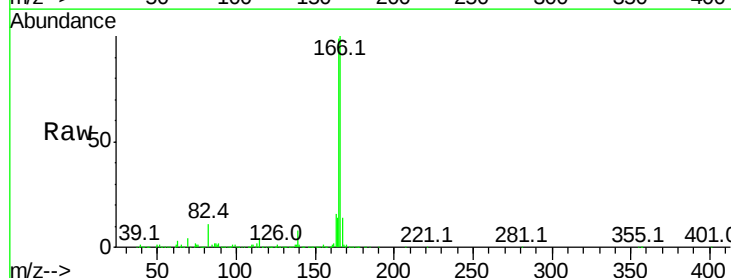
RT: 10.25 min Scan# 758

Delta R.T. -0.01 min

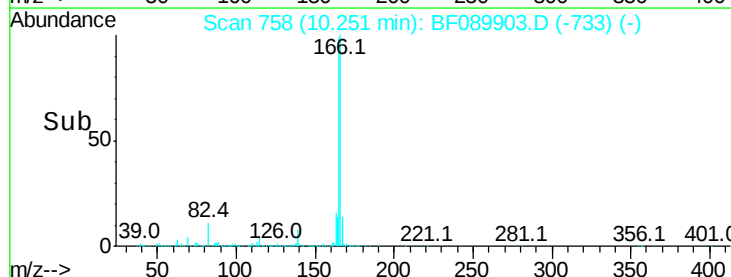
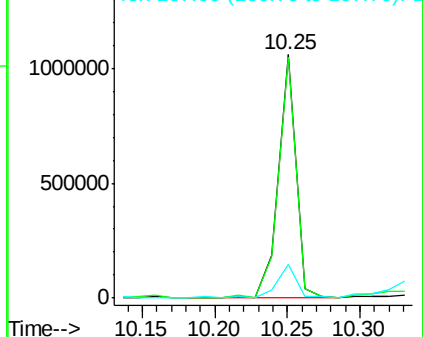
Lab File: BF089903.D

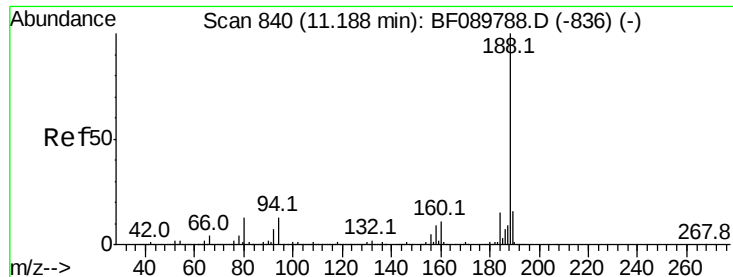
Acq: 25 Aug 2016 5:32

Tgt Ion:	166	Resp:	891990
Ion Ratio	Lower	Upper	
166	100		
165	98.8	80.2	120.4
167	14.1	11.3	16.9



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





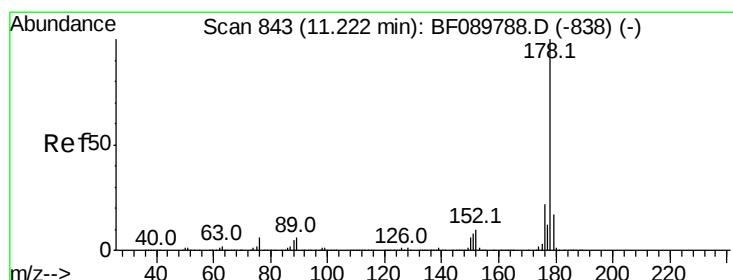
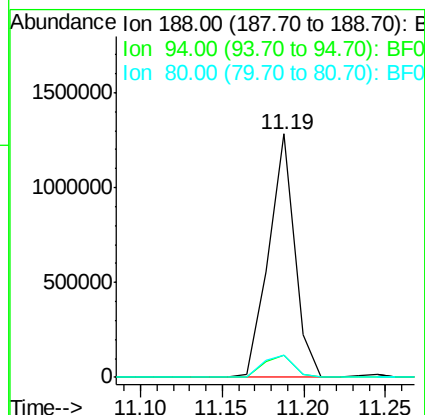
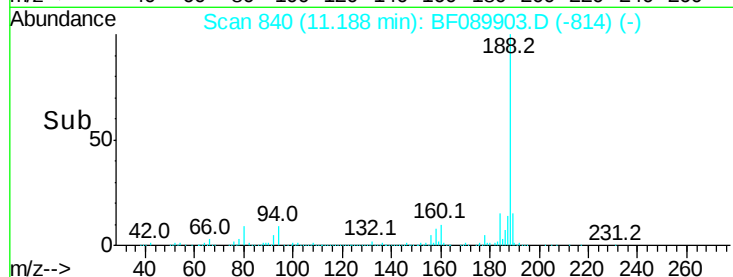
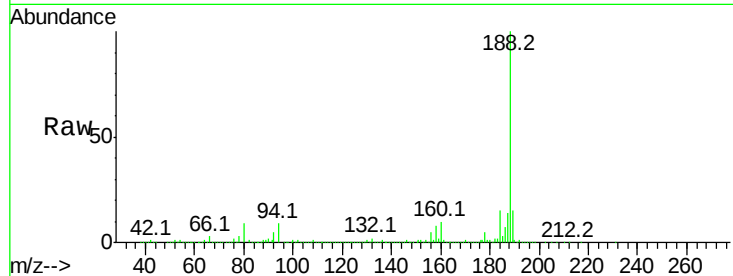
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. 0.00 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.3	10.2	15.2#
80	9.3	10.9	16.3#

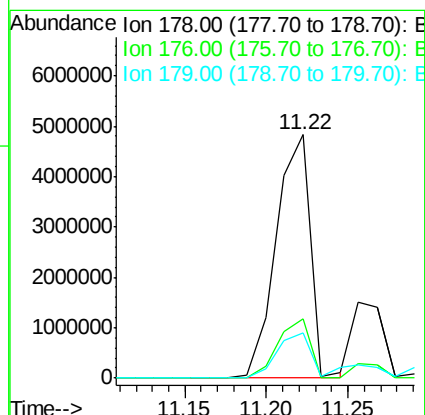
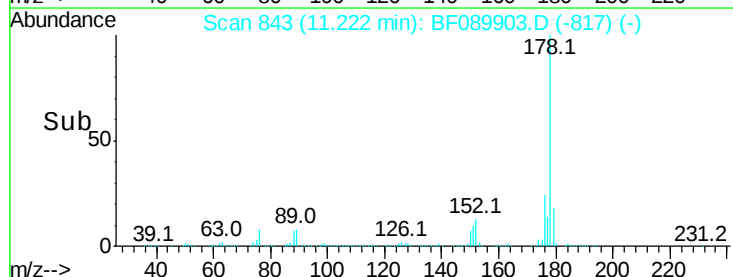
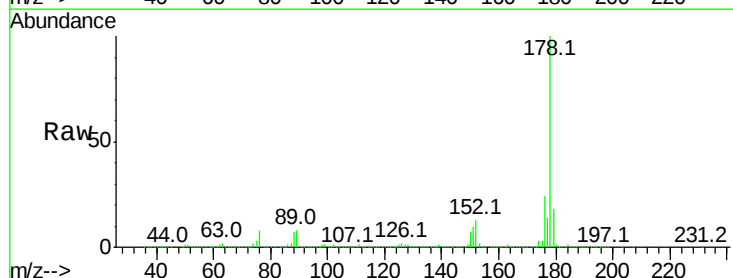
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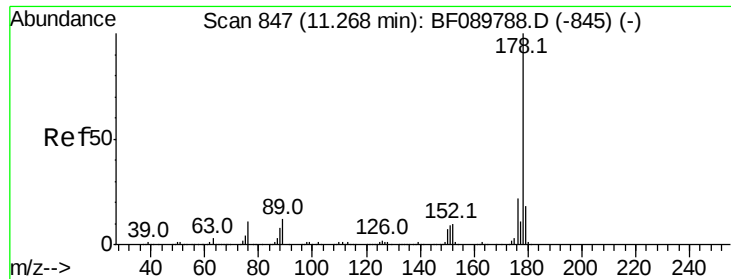
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#70
Phenanthrene
Concen: 97.61 ng
RT: 11.22 min Scan# 843
Delta R.T. 0.00 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	24.4	16.4	24.6
179	18.4	12.5	18.7





#71

Anthracene

Concen: 28.07 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Instrument :

BNA_F

ClientSampleId :

WC2-S-5-02

Tot Ion:178 Resp: 2061377

Ion Ratio Lower Upper

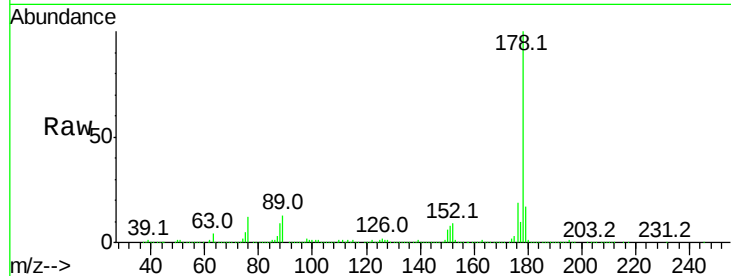
178 100

176 19.2 16.4 24.6

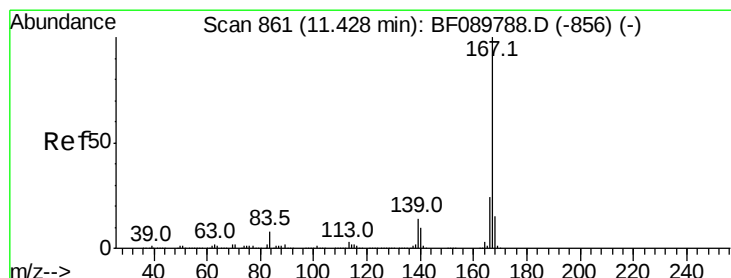
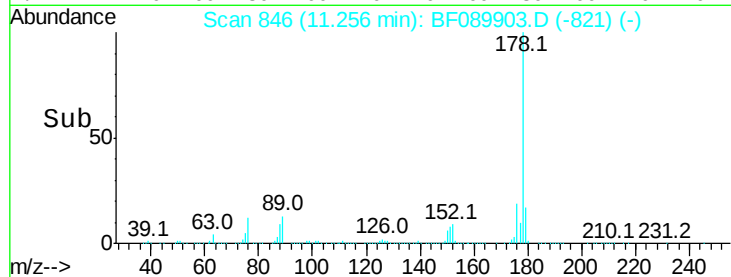
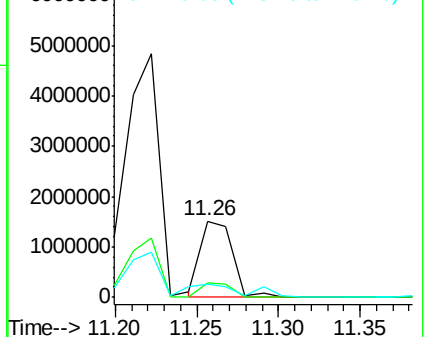
179 17.1 13.1 19.7

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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



#72

Carbazole

Concen: 20.83 ng

RT: 11.42 min Scan# 860

Delta R.T. -0.01 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Tgt Ion:167 Resp: 1371715

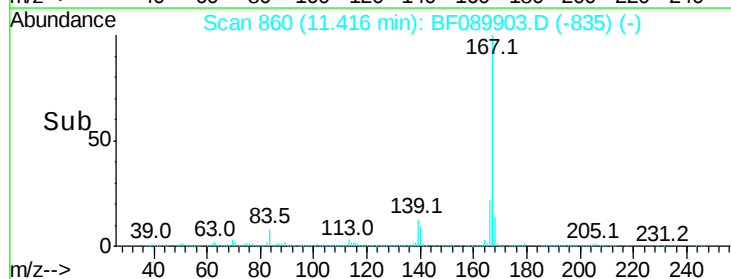
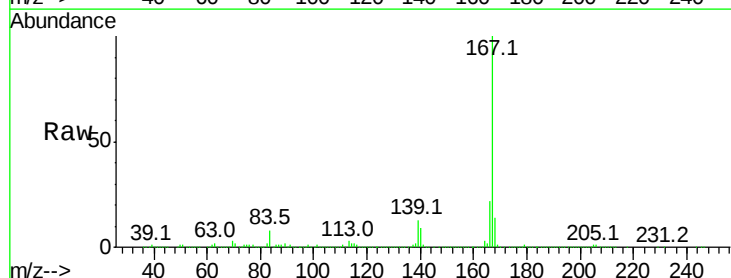
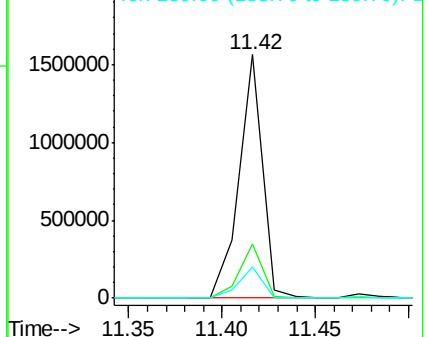
Ion Ratio Lower Upper

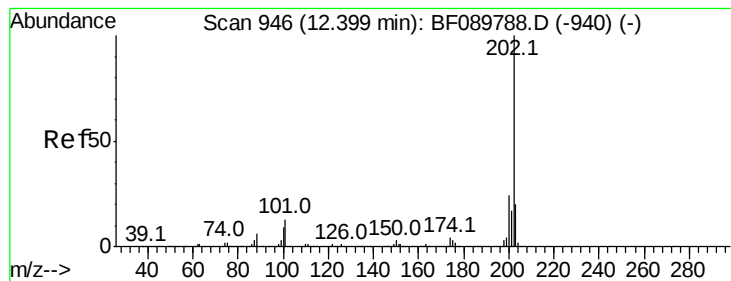
167 100

166 22.3 17.9 26.9

139 12.6 12.4 18.6

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 110.52 ng

RT: 12.40 min Scan# 946

Delta R.T. 0.00 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Instrument :

BNA_F

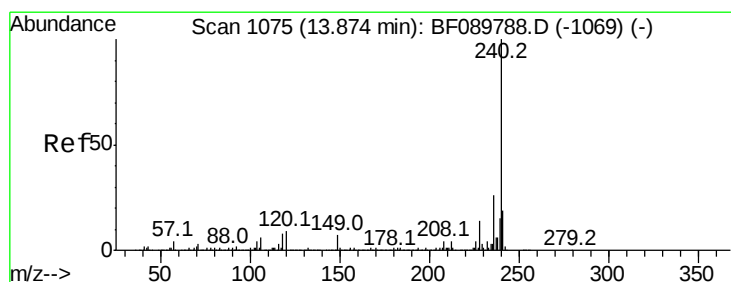
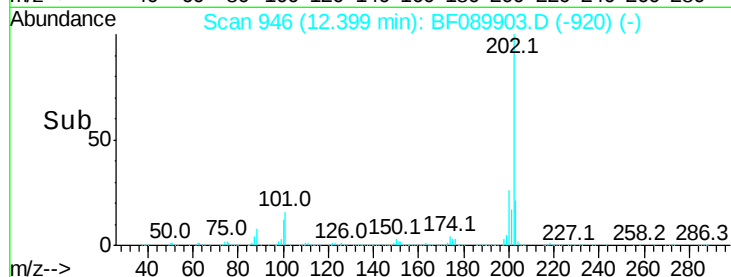
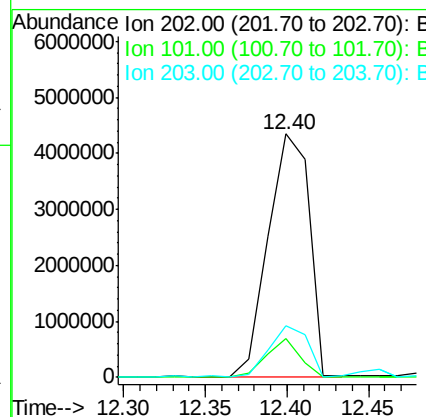
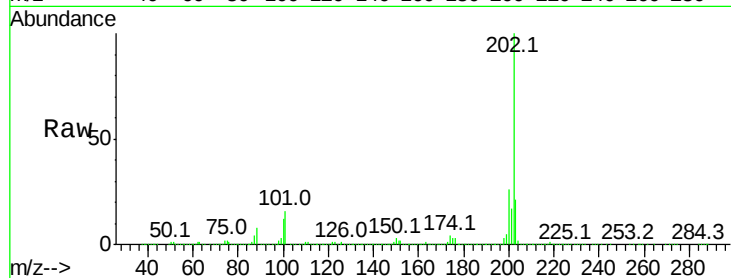
ClientSampleId :

WC2-S-5-02

Tot Ion:	202	Resp:	7594046
Ion	Ratio	Lower	Upper
202	100		
101	16.0	0.0	31.2
203	21.0	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

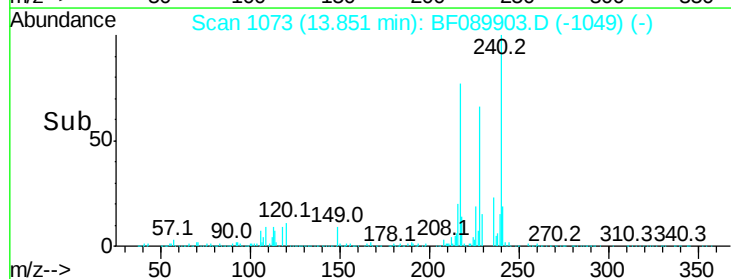
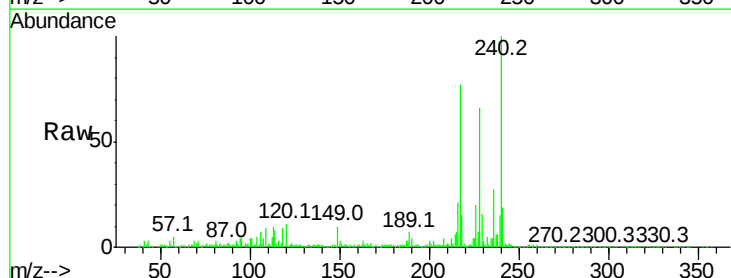
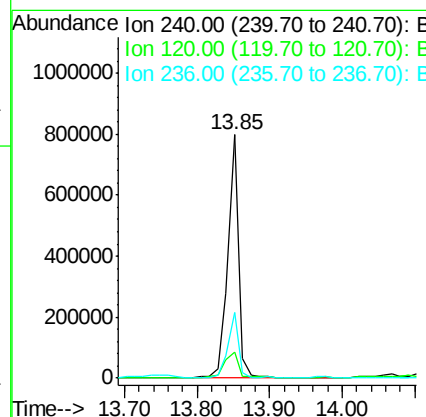
RT: 13.85 min Scan# 1073

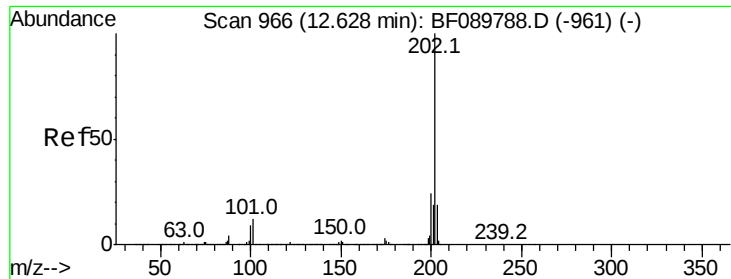
Delta R.T. -0.02 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Tgt Ion:	240	Resp:	818575
Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.3	12.5
236	26.8	21.3	31.9





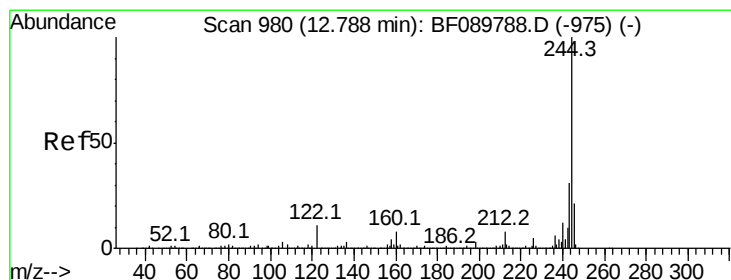
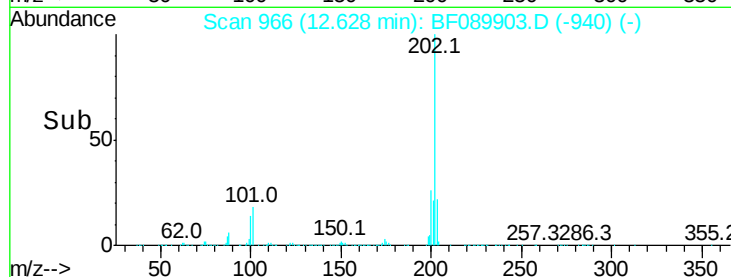
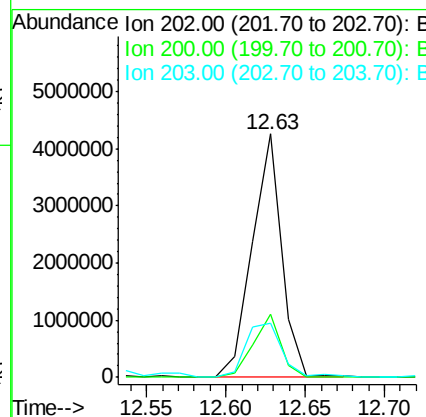
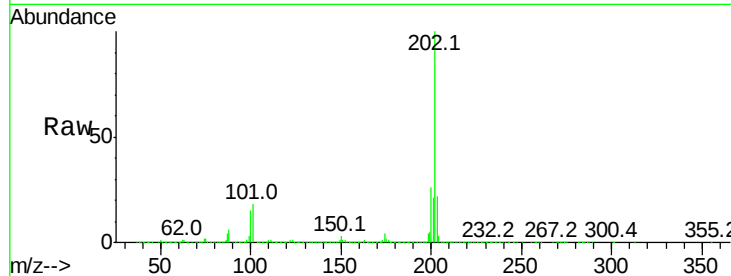
#77
Pvrene
Concen: 83.55 ng/mL
RT: 12.63 min Scan# 966
Delta R.T. 0.00 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
202	100		
200	25.8	17.8	26.6
203	22.3	14.2	21.4

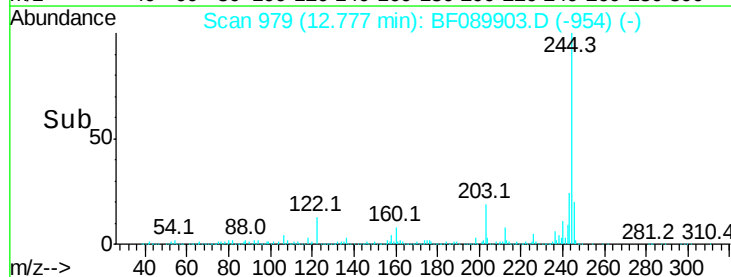
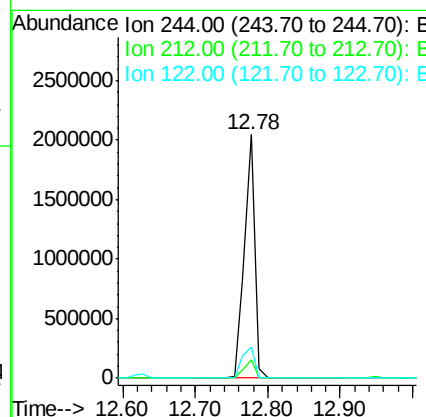
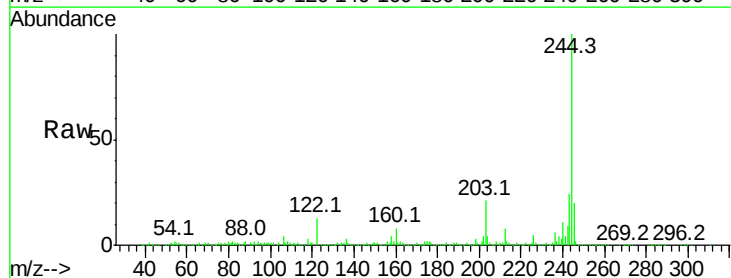
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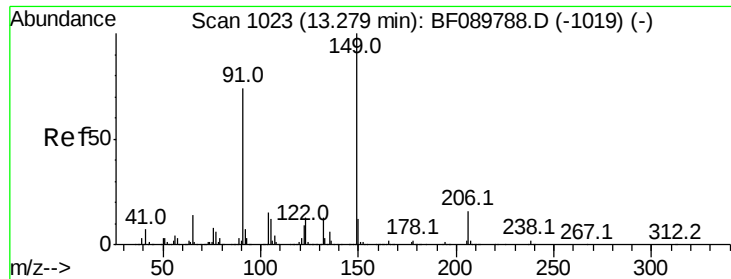
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#78
Terphenyl-d14
Concen: 56.60 ng
RT: 12.78 min Scan# 979
Delta R.T. -0.01 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.3	9.5
122	13.1	12.0	18.0





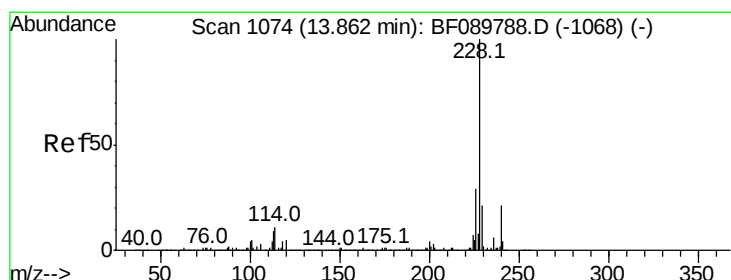
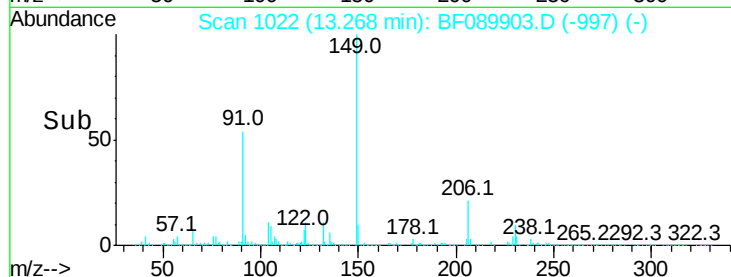
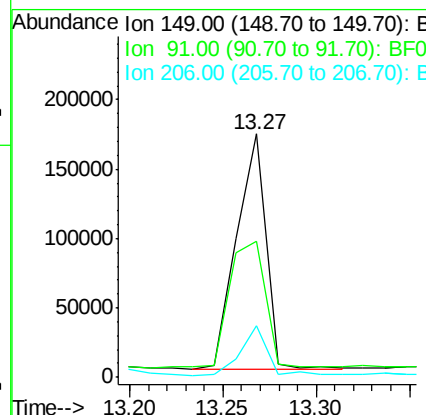
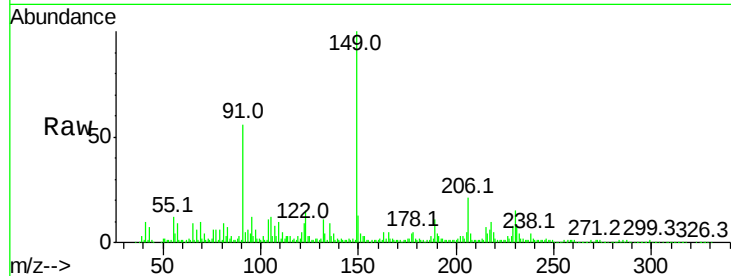
#79
Butylbenzylphthalate
Concen: 6.21 ng
RT: 13.27 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Resp	Lower	Upper
149	100	187098		
91	55.9	50.7	76.1	
206	21.4	15.5	23.3	

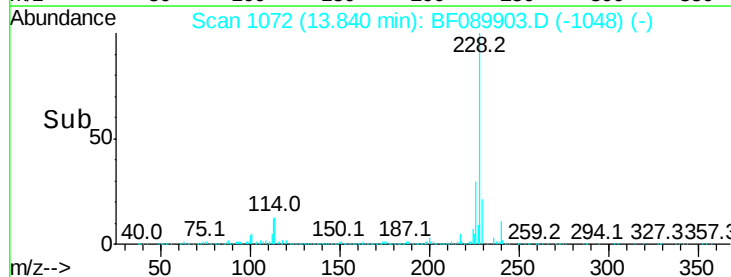
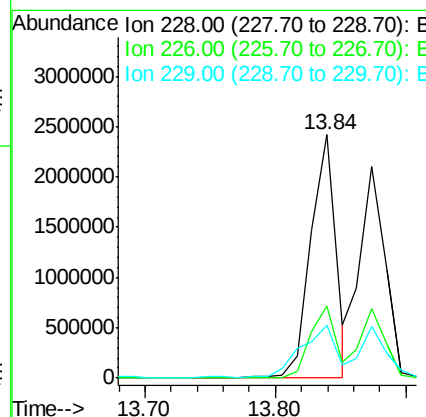
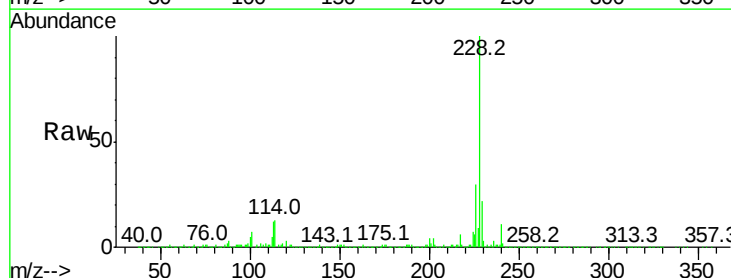
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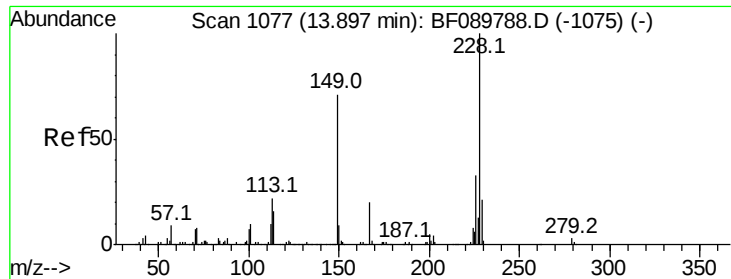
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#80
Benzo(a)anthracene
Concen: 68.47 ng
RT: 13.84 min Scan# 1072
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	3209915		
226	29.9	23.2	34.8	
229	21.7	16.2	24.4	





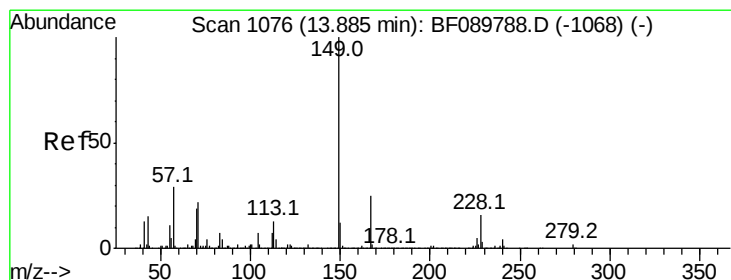
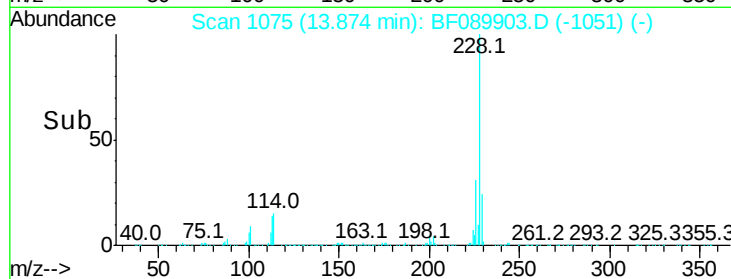
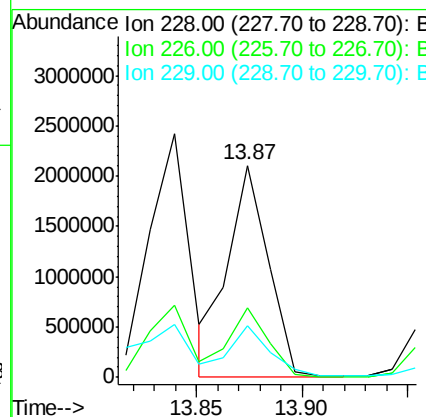
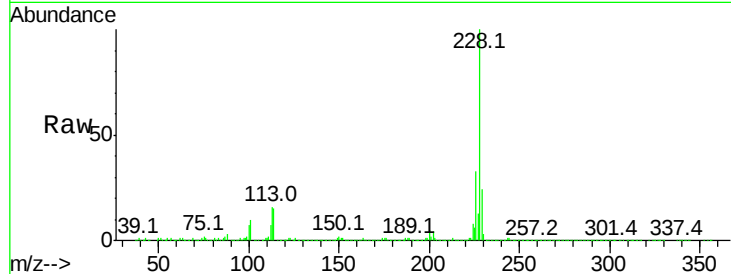
#82
Chrysene
Concen: 71.22 ng/ml
RT: 13.87 min Scan# 1075
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.4	38.0
229	24.1	16.5	24.7

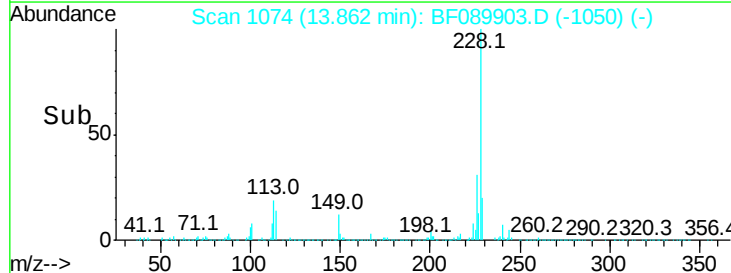
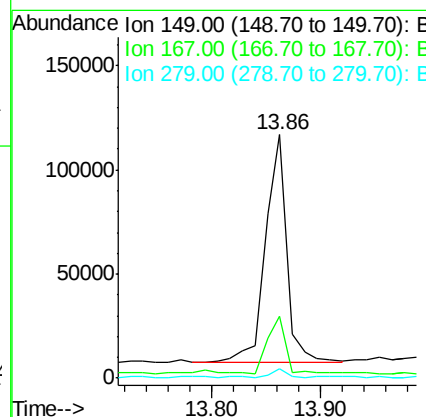
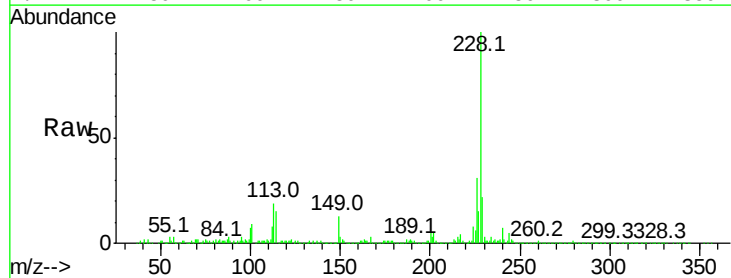
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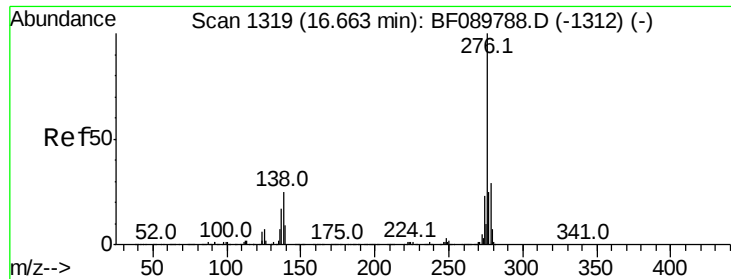
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#83
Bis(2-ethylhexyl)phthalate
Concen: 3.66 ng
RT: 13.86 min Scan# 1074
Delta R.T. -0.02 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.2	31.8
279	3.9	2.9	4.3





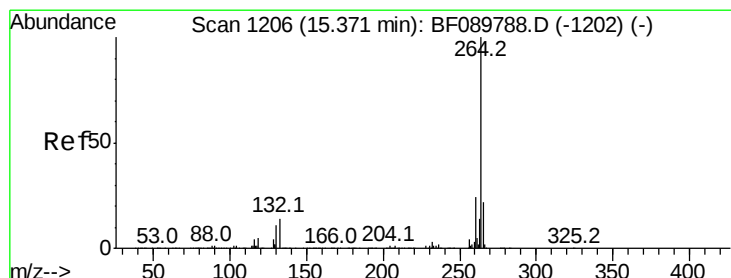
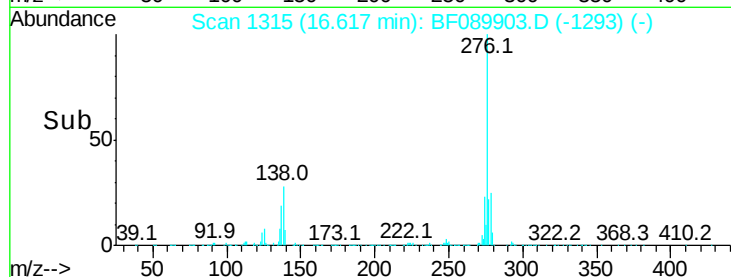
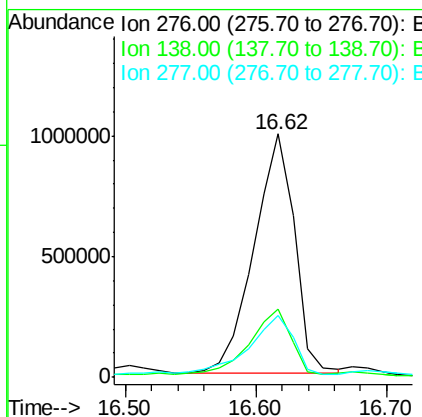
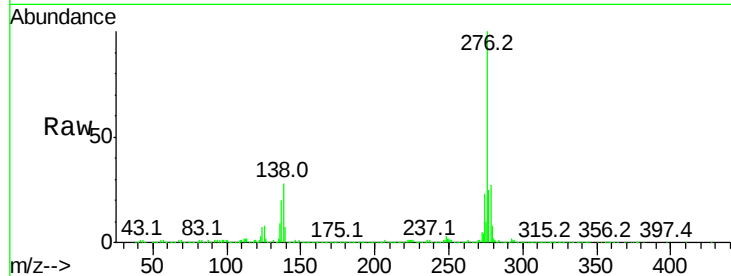
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 41.83 ng
 RT: 16.62 min Scan# 1315
 Delta R.T. -0.05 min
 Lab File: BF089903.D
 Acq: 25 Aug 2016 5:32

Instrument :
 BNA_F
 ClientSampled :
 WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.8	24.6	36.8
277	30.7	20.4	30.6

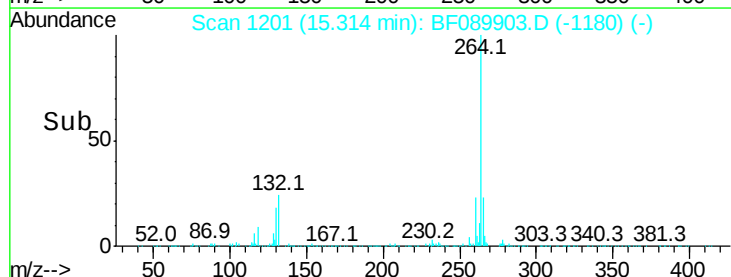
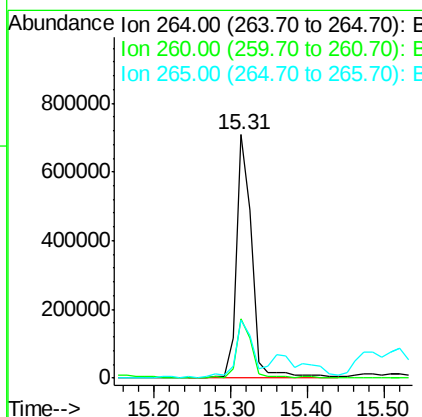
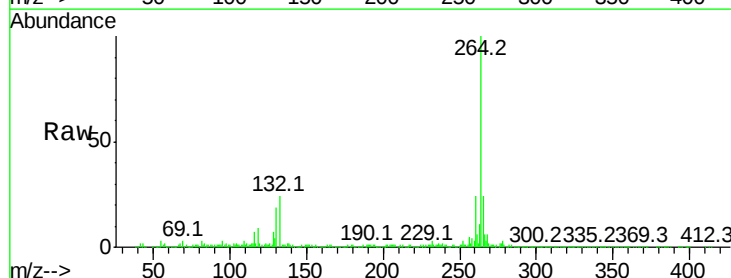
Manual Integrations
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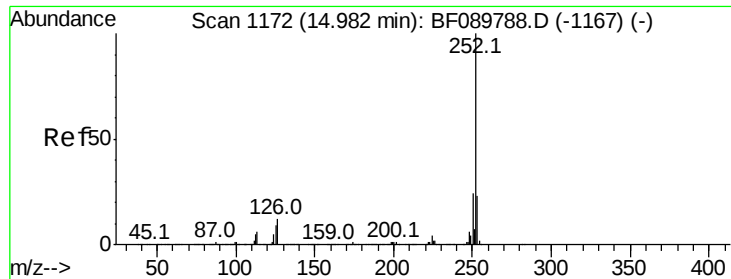
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.31 min Scan# 1201
 Delta R.T. -0.06 min
 Lab File: BF089903.D
 Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	20.2	30.2
265	23.7	17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 87.22 ng m

RT: 14.94 min Scan# 1168

Delta R.T. -0.05 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Instrument :

BNA_F

ClientSampled :

WC2-S-5-02

Tot Ion:252 Resp: 4736172

Ion Ratio Lower Upper

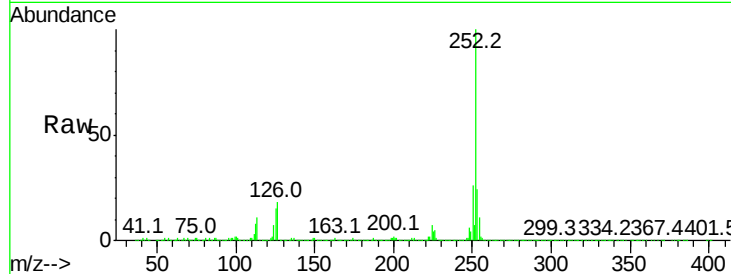
252 100

253 24.4 17.8 26.8

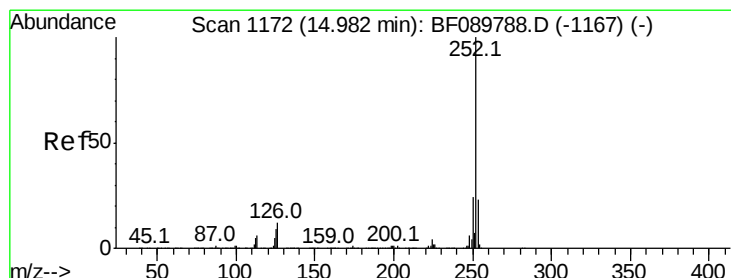
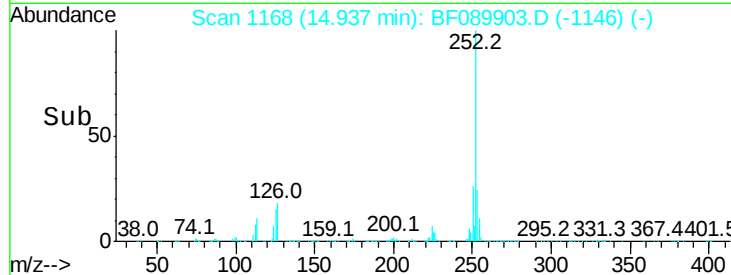
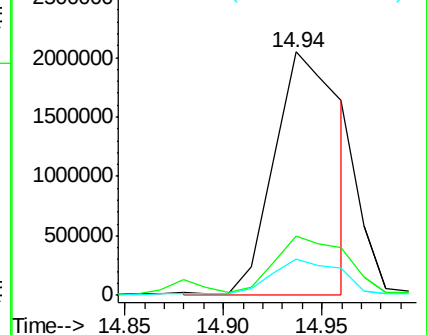
125 15.0 11.4 17.2

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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: 9.64 ng m

RT: 14.96 min Scan# 1170

Delta R.T. -0.05 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Tgt Ion:252 Resp: 475066

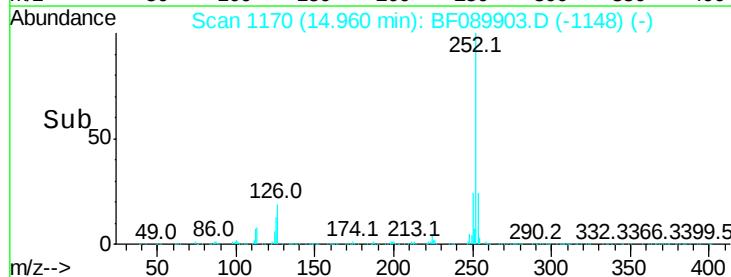
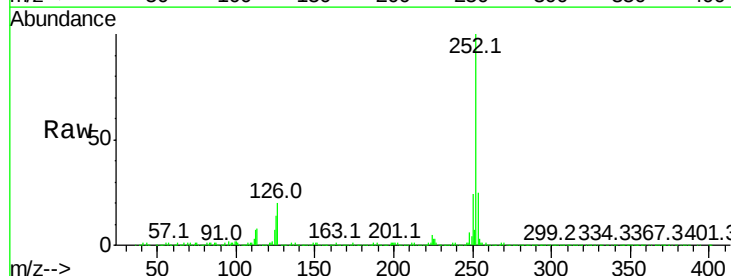
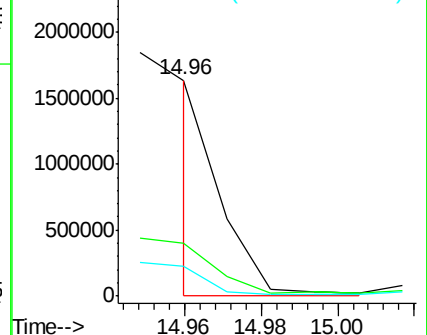
Ion Ratio Lower Upper

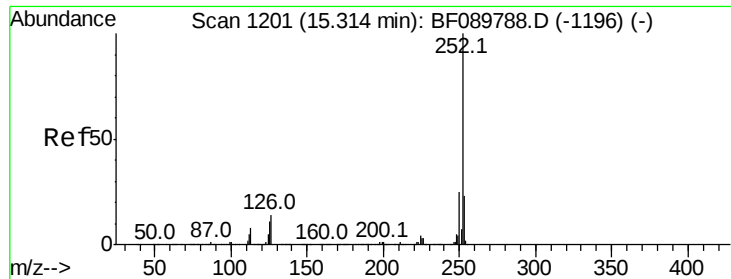
252 100

253 24.6 18.4 27.6

125 13.8 9.8 14.6

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





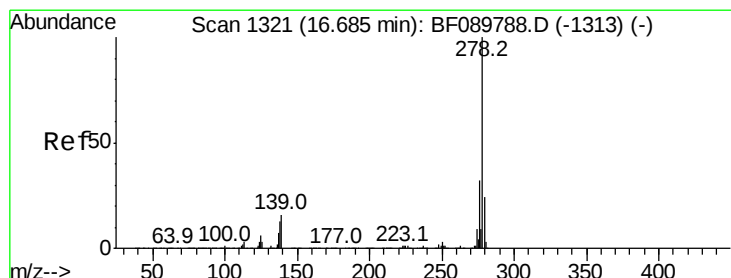
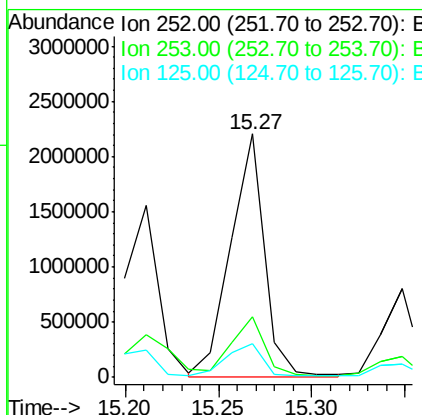
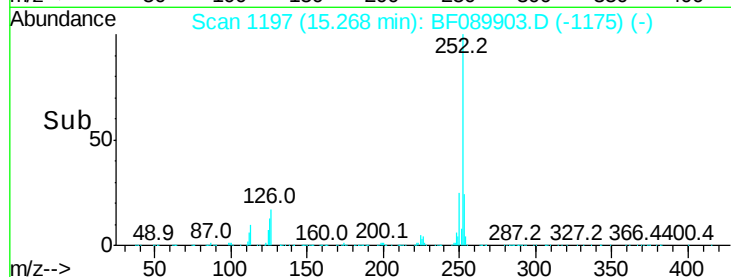
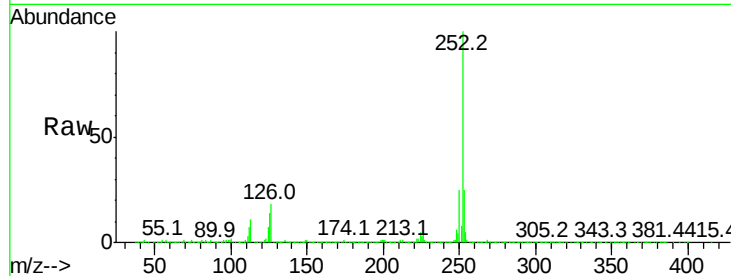
#89
Benzo(a)pyrene
Concen: 54.06 ng
RT: 15.27 min Scan# 1197
Delta R.T. -0.05 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Instrument :
BNA_F
ClientSampleId :
WC2-S-5-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.8	26.8
125	13.7	11.7	17.5

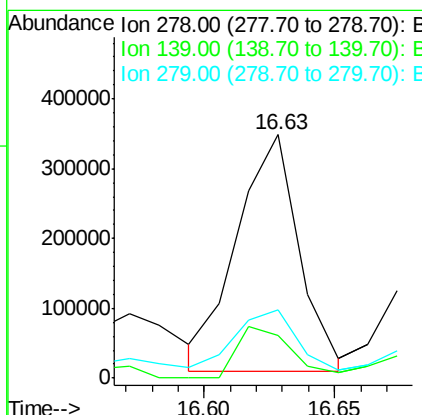
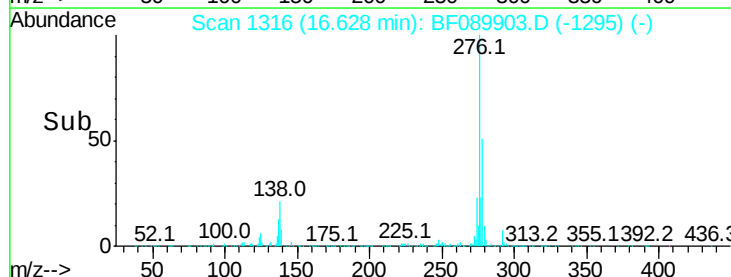
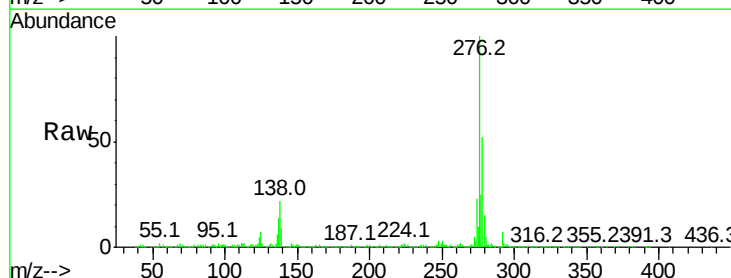
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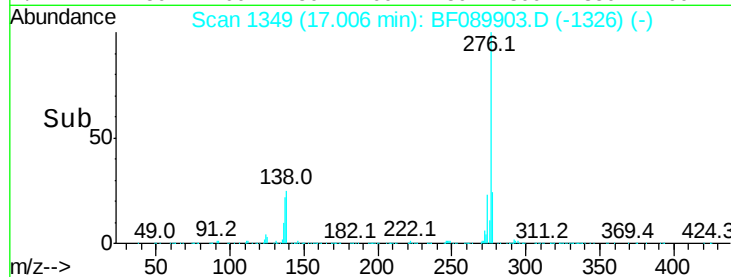
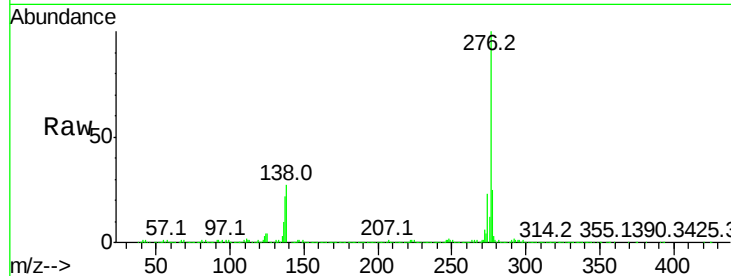
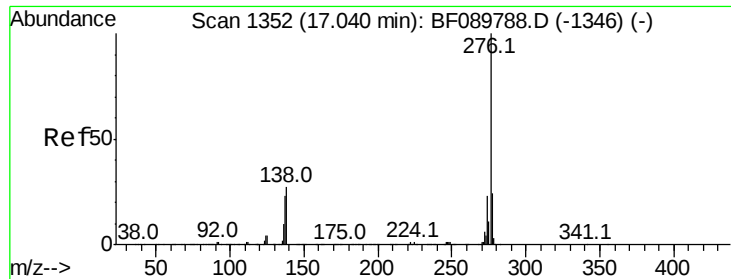
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#90
Dibenzo(a,h)anthracene
Concen: 10.12 ng
RT: 16.63 min Scan# 1316
Delta R.T. -0.06 min
Lab File: BF089903.D
Acq: 25 Aug 2016 5:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.9	22.3
279	28.1	19.2	28.8





#91

Benzo(a,h,i)perylene

Concen: 34.75 ng

RT: 17.01 min Scan# 1349

Delta R.T. -0.03 min

Lab File: BF089903.D

Acq: 25 Aug 2016 5:32

Tot Ion:	276	Resp:	2041607
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.2	28.8
138	26.6	22.1	33.1

Instrument :

BNA_F

ClientSampleId :

WC2-S-5-02

Manual Integrations
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