

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114679.D
 Acq On : 30 May 2019 23:53
 Operator : HP/JU
 Sample : K3041-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-S

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:44 AM

Quant Time: May 31 07:27:42 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 19:08:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	444103	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	1622735	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	754576	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	1278040	20.00	ng	0.00
76) Chrysene-d12	13.82	240	848619	20.00	ng	0.00
87) Perylene-d12	15.21	264	709773	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	2268814	89.69	ng	0.01
7) Phenol-d6	6.33	99	2787964	91.47	ng	0.00
23) Nitrobenzene-d5	7.26	82	1680793	64.62	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	612990	85.26	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	2550891	58.52	ng	0.00
79) Terphenyl-d14	12.78	244	2100602	46.54	ng	0.00

Target Compounds				Qvalue		
10) Phenol	6.35	94	74904	2.034	ng	84
31) Naphthalene	8.00	128	260668	3.487	ng	96
37) 2-Methylnaphthalene	8.69	142	110564	2.226	ng	98
50) Dimethylphthalate	9.44	163	285998	5.439	ng	100
71) Phenanthrene	11.22	178	1048197	16.078	ng	96
72) Anthracene	11.27	178	266699	4.042	ng	96
73) Carbazole	11.42	167	164419	2.835	ng	97
75) Fluoranthene	12.40	202	1582907	23.448	ng	97
78) Pyrene	12.63	202	1511526	21.056	ng	99
81) Benzo(a)anthracene	13.81	228	808176	12.393	ng	97
83) Chrysene	13.84	228	828256	13.293	ng	95
86) Indeno(1,2,3-cd)pyrene	16.53	276	303879	4.870	ng	94
88) Benzo(b)fluoranthene	14.82	252	863830m	19.323	ng	
89) Benzo(k)fluoranthene	14.84	252	195016m	5.019	ng	
90) Benzo(a)pyrene	15.15	252	516433	13.150	ng	96
91) Dibenzo(a,h)anthracene	16.54	278	90990	2.622	ng	# 85
92) Benzo(a,h,i)perylene	16.93	276	280420	8.326	ng	99

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

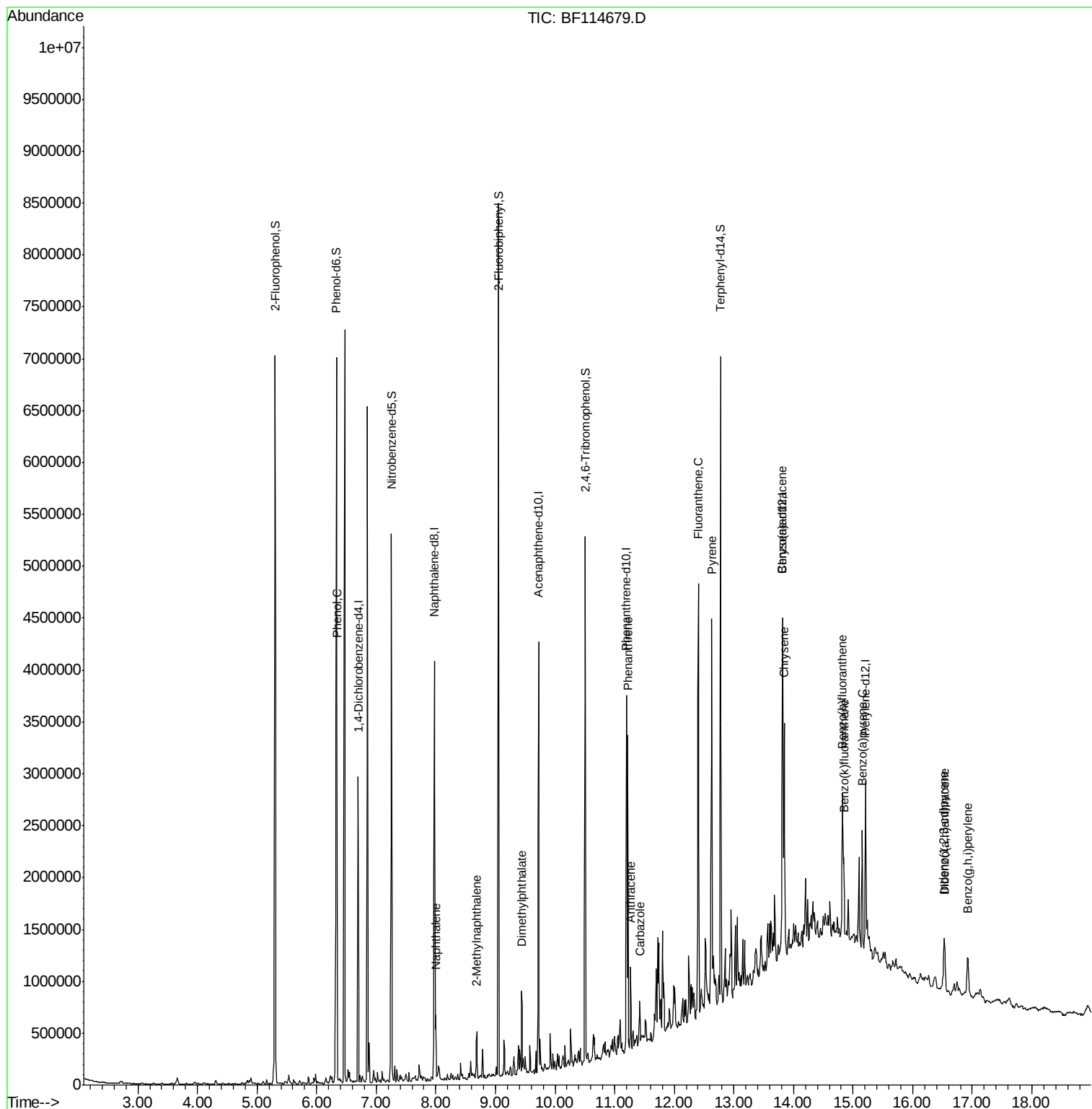
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#1

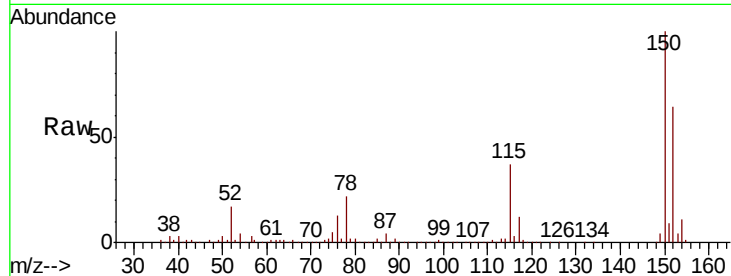
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.01 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Instrument :
BNA_F
ClientSampleId :
TP-2-S

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.4	186.6
115	57.4	48.7	73.1

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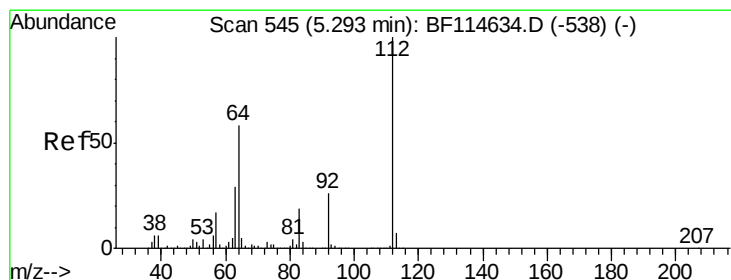
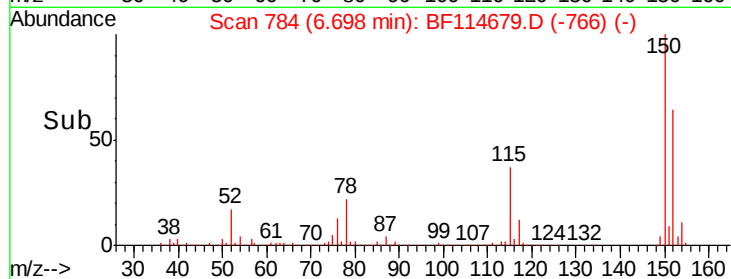
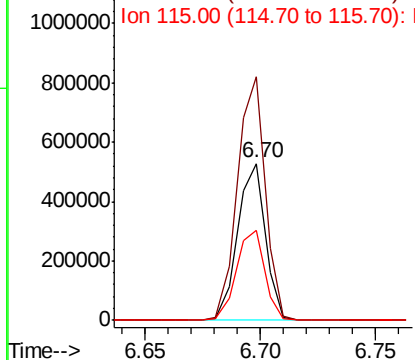


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

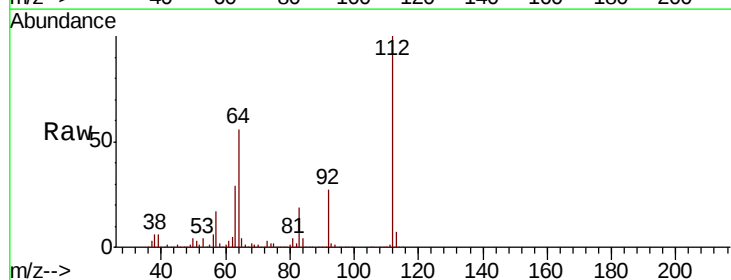
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 89.695 ng
RT: 5.30 min Scan# 547
Delta R.T. 0.01 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	46.1	69.1
63	29.0	23.4	35.2

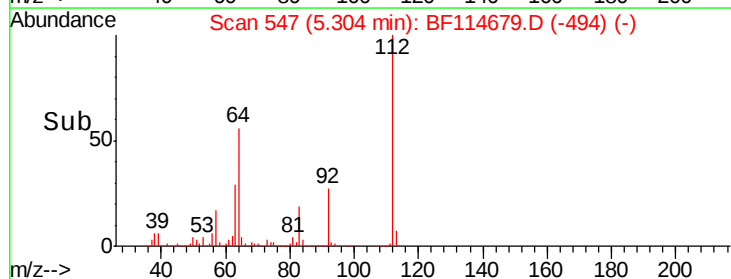
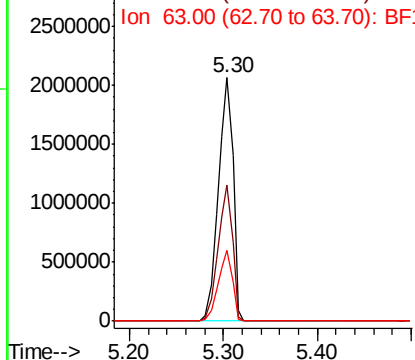


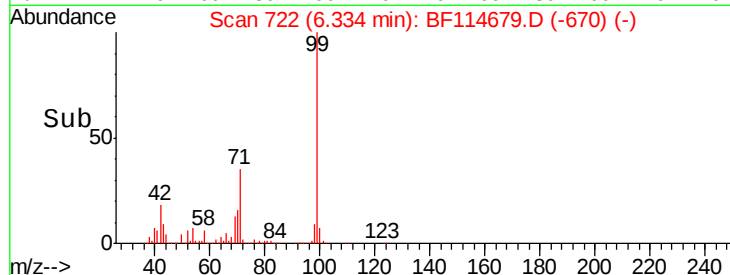
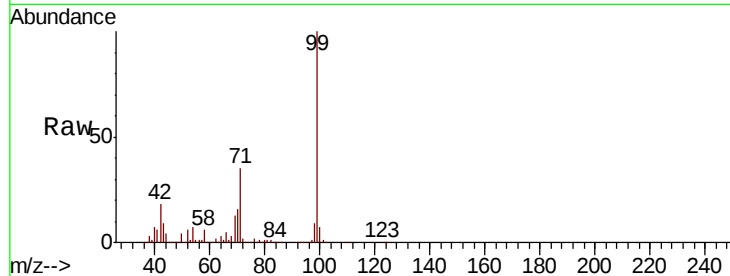
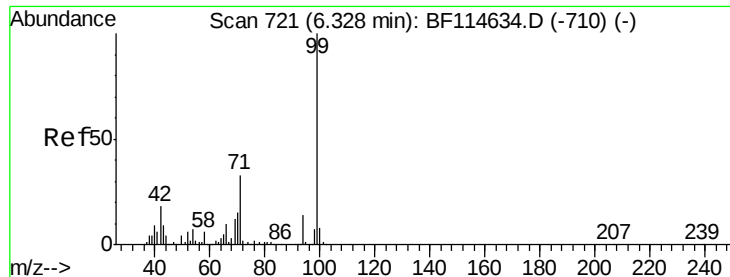
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 91.465 ng

RT: 6.33 min Scan# 722

Delta R.T. 0.01 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Tot Ion:	99	Resp:	2787964
Ion	Ratio	Lower	Upper
99	100		
42	18.0	14.7	22.1
71	35.3	26.6	40.0

Instrument :

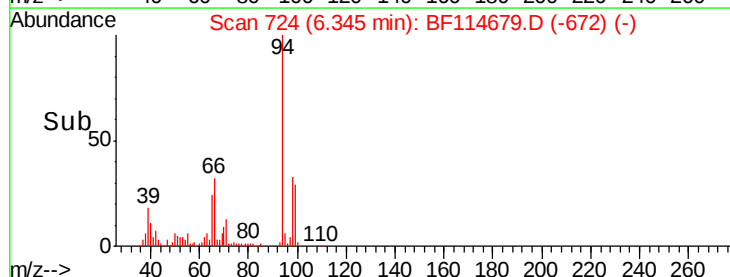
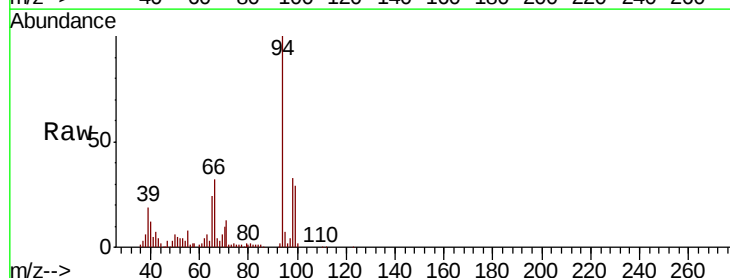
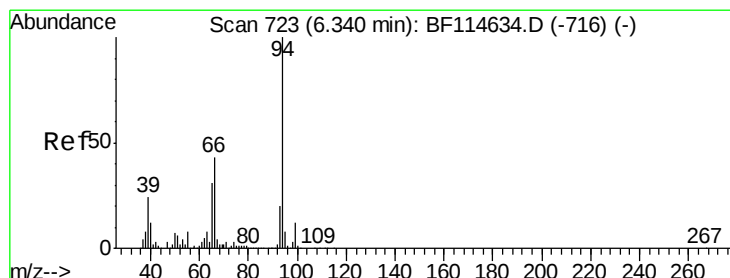
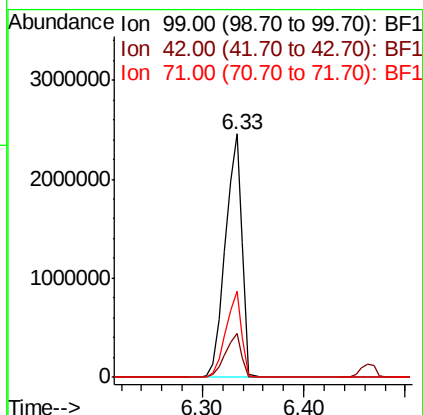
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 2.034 ng

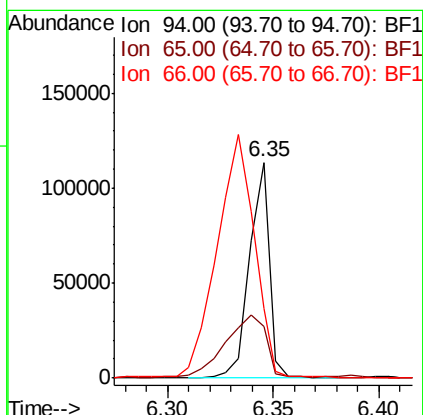
RT: 6.35 min Scan# 724

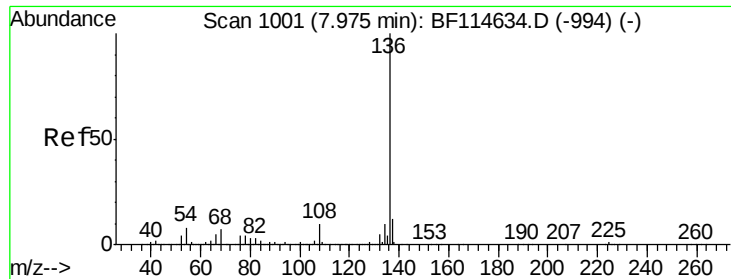
Delta R.T. 0.01 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Tgt Ion:	94	Resp:	74904
Ion	Ratio	Lower	Upper
94	100		
65	23.6	11.0	51.0
66	32.0	23.0	63.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Instrument :

BNA_F

ClientSampleId :

TP-2-S

Tot Ion:136 Resp: 1622735

Ion Ratio Lower Upper

136 100

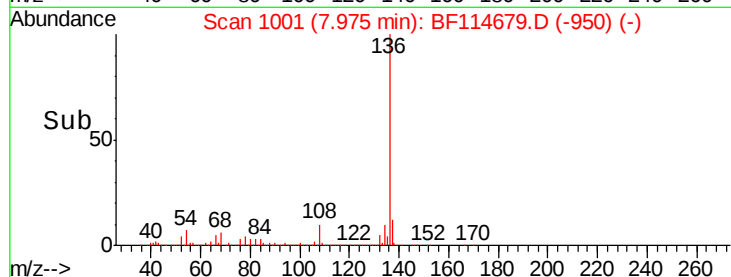
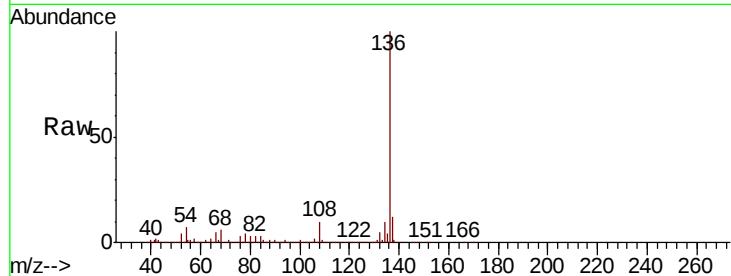
137 11.7 9.3 13.9

54 7.5 6.3 9.5

68 6.3 5.4 8.0

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Abundance Ion 136.00 (135.70 to 136.70): E

3000000 Ion 137.00 (136.70 to 137.70): E

2500000 Ion 54.00 (53.70 to 54.70): BF1

2000000 Ion 68.00 (67.70 to 68.70): BF1

1500000

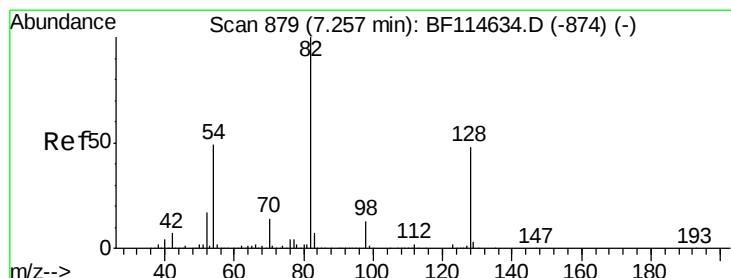
1000000

500000

0

7.95 7.97 8.00

Time-->



#23

Nitrobenzene-d5

Concen: 64.621 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

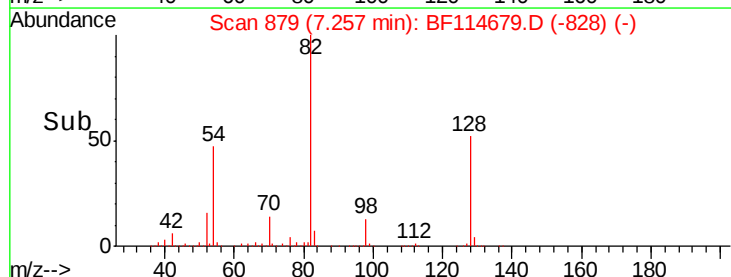
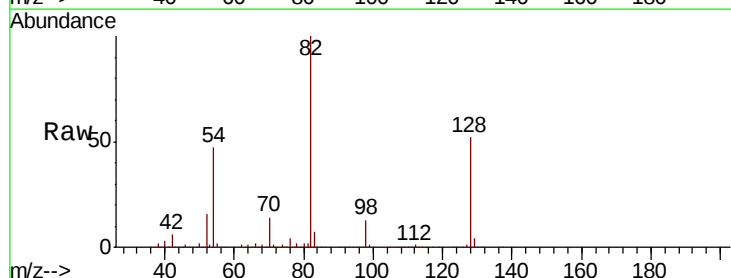
Tgt Ion: 82 Resp: 1680793

Ion Ratio Lower Upper

82 100

128 51.5 38.5 57.7

54 47.0 39.1 58.7



Abundance Ion 82.00 (81.70 to 82.70): BF1

2000000 Ion 128.00 (127.70 to 128.70): E

1500000 Ion 54.00 (53.70 to 54.70): BF1

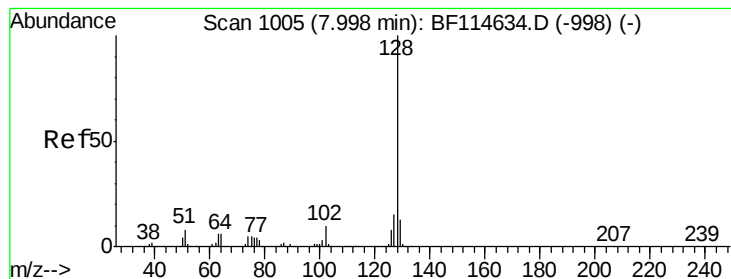
1000000

500000

0

7.20 7.25 7.30 7.35

Time-->



#31

Naphthalene

Concen: 3.487 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Instrument :

BNA_F

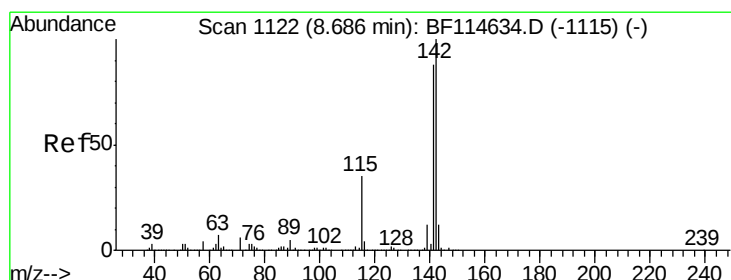
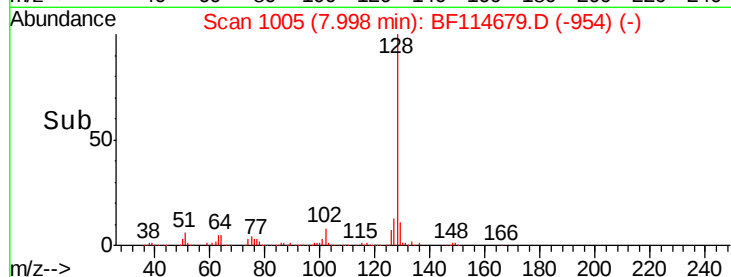
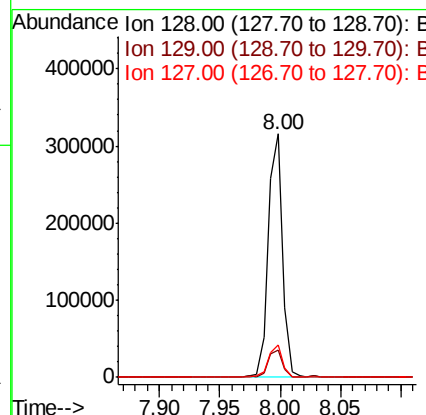
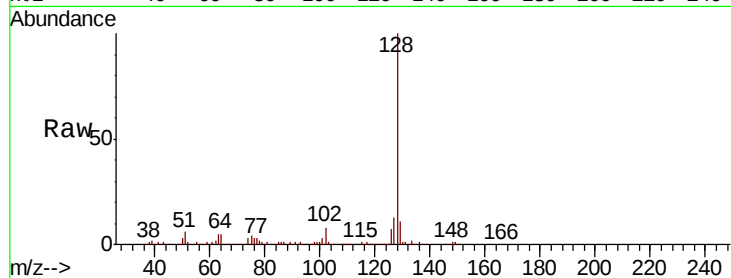
ClientSampleId :

TP-2-S

Tot Ion:	128	Resp:	260668
Ion Ratio		Lower	Upper
128	100		
129	11.1	10.2	15.2
127	13.3	11.9	17.9

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#37

2-Methylnaphthalene

Concen: 2.226 ng

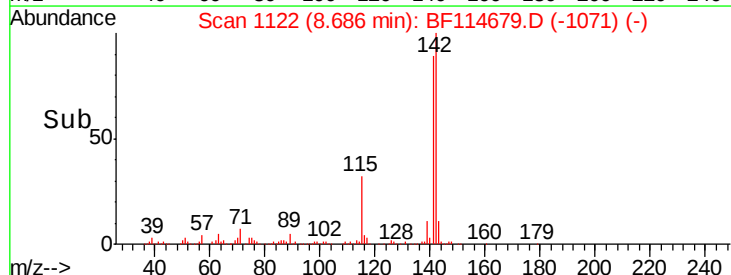
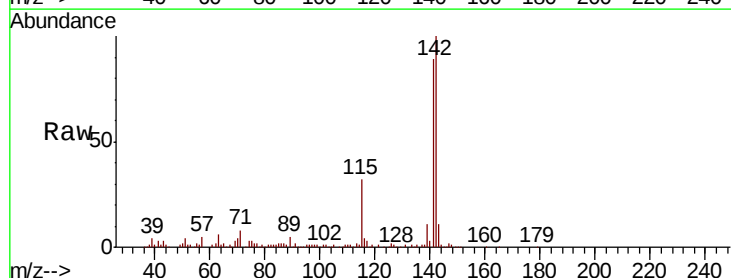
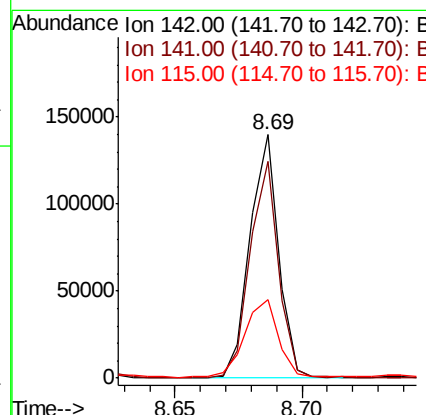
RT: 8.69 min Scan# 1122

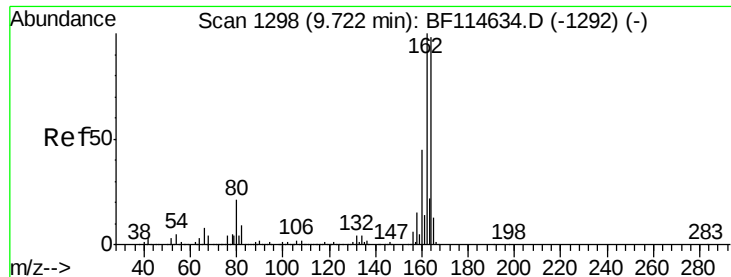
Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Tgt Ion:	142	Resp:	110564
Ion Ratio		Lower	Upper
142	100		
141	88.8	70.3	105.5
115	32.2	28.0	42.0





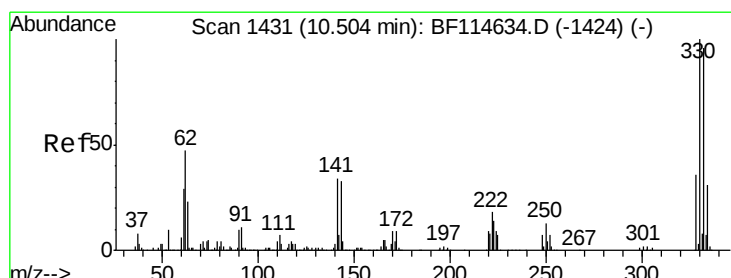
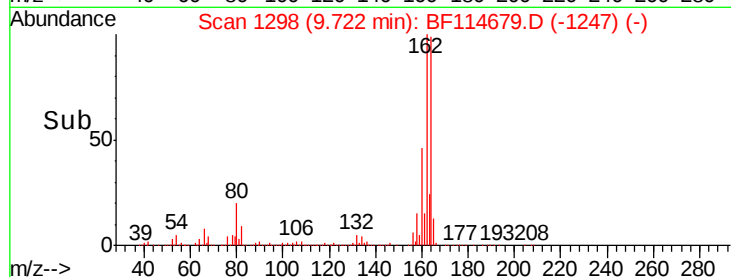
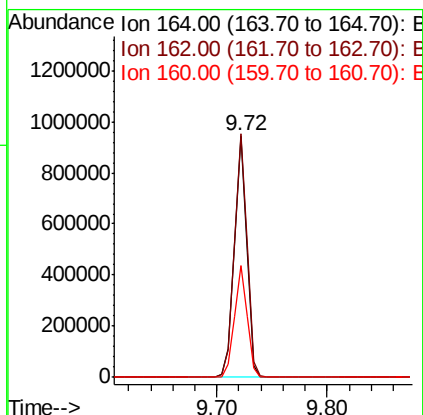
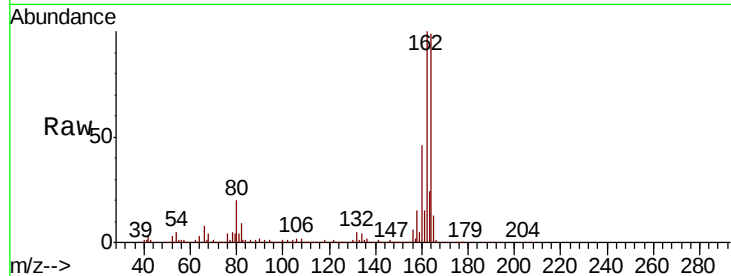
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.00 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Instrument :
BNA_F
ClientSampleId :
TP-2-S

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.9	81.4	122.2	
160	46.5	36.6	54.8	

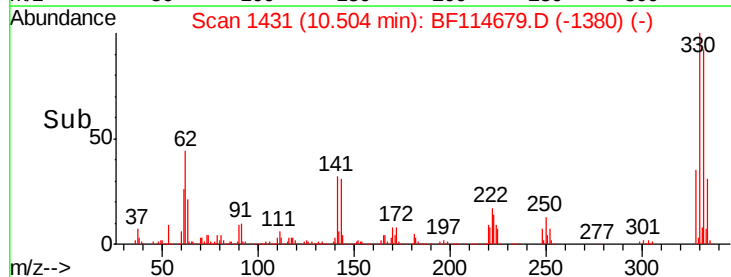
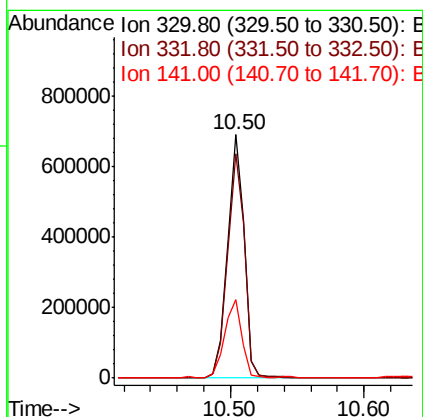
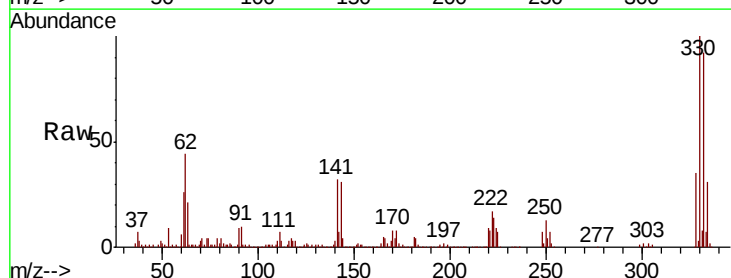
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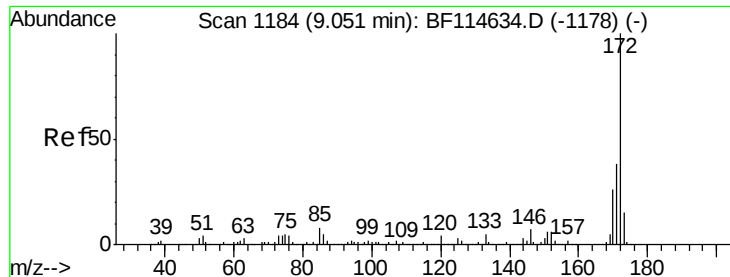
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#42
2,4,6-Tribromophenol
Concen: 85.257 ng
RT: 10.50 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.6	75.8	113.8	
141	32.9	27.8	41.8	





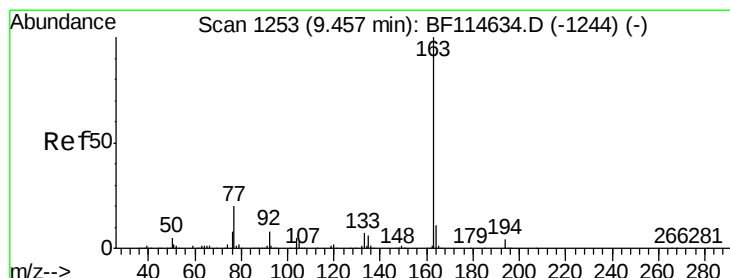
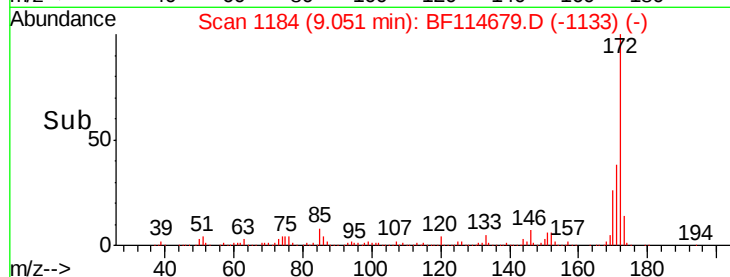
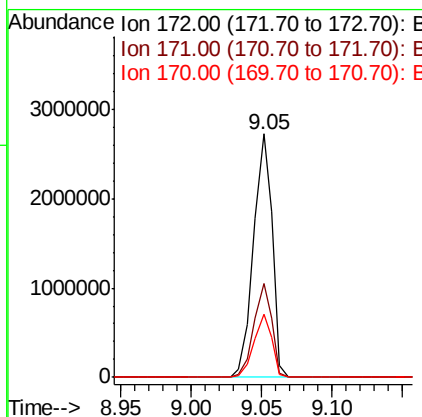
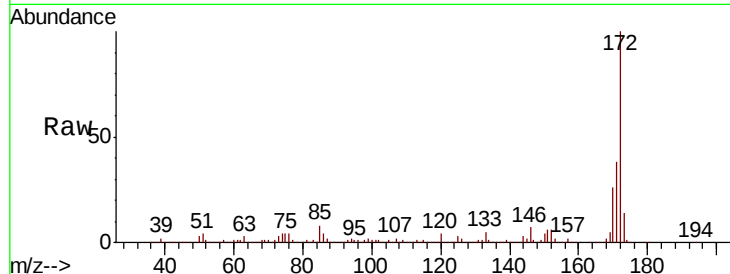
#45
2-Fluorobiphenyl
Concen: 58.518 ng
RT: 9.05 min Scan# 1184
Delta R.T. 0.00 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Instrument :
BNA_F
ClientSampleId :
TP-2-S

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.3	30.6	45.8
170	25.9	20.7	31.1

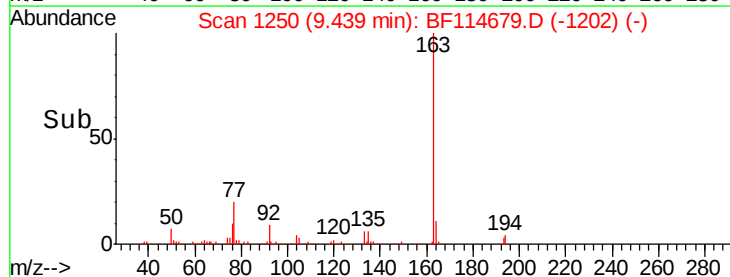
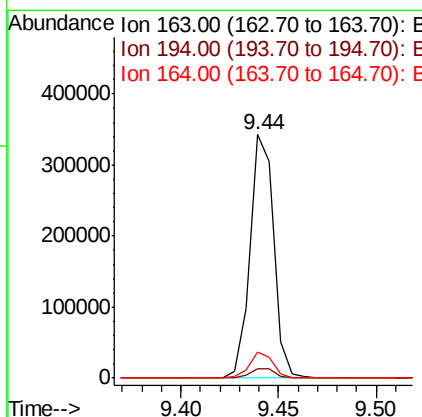
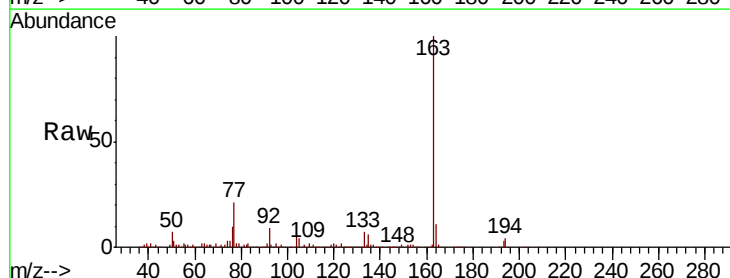
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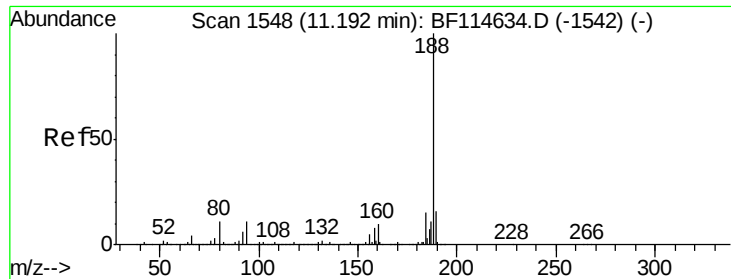
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#50
Dimethylphthalate
Concen: 5.439 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.4	5.0
164	10.7	8.6	13.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1549

Delta R.T. 0.01 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Instrument :

BNA_F

ClientSampleId :

TP-2-S

Tot Ion:188 Resp: 1278040

Ion Ratio Lower Upper

188 100

94 9.3 8.6 13.0

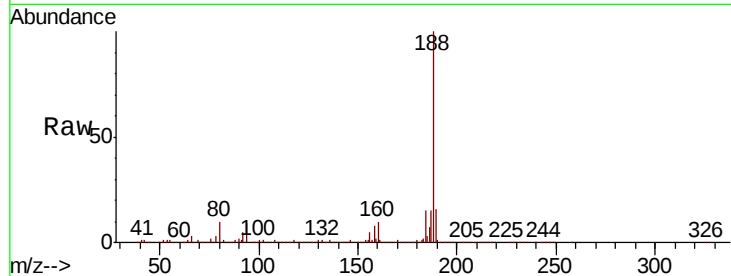
80 9.6 9.0 13.6

Manual Integrations

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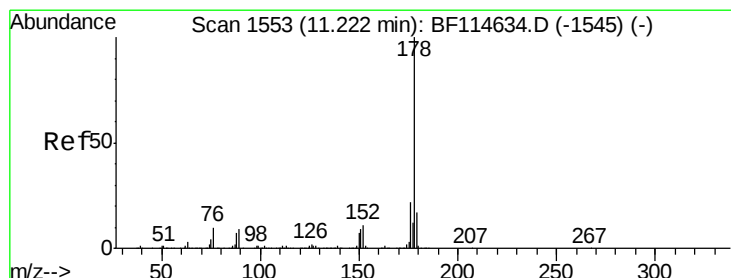
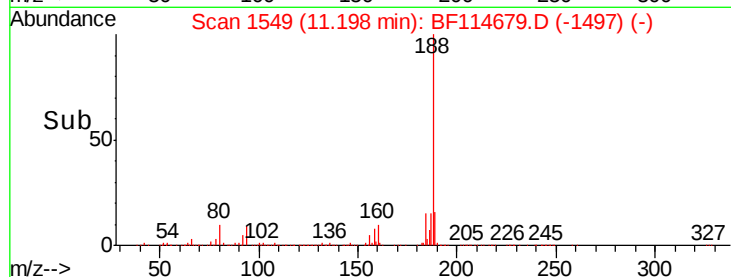
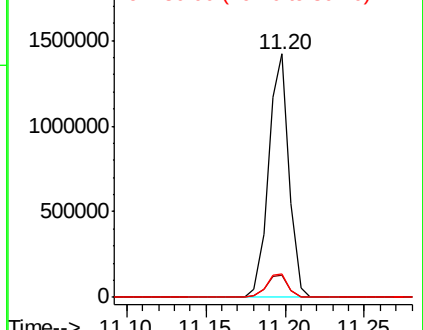
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 16.078 ng

RT: 11.22 min Scan# 1553

Delta R.T. 0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

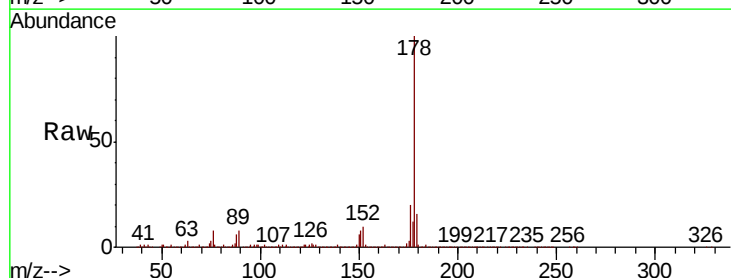
Tgt Ion:178 Resp: 1048197

Ion Ratio Lower Upper

178 100

176 20.0 17.2 25.8

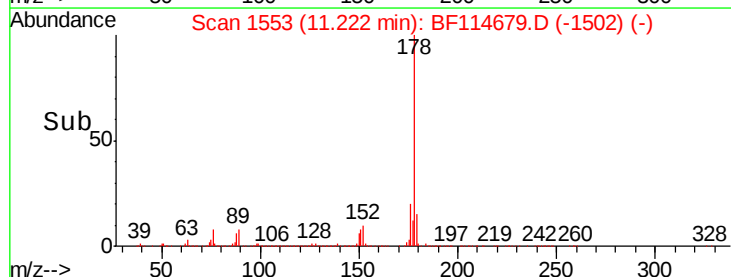
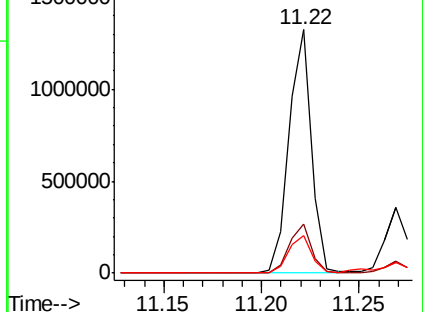
179 15.6 13.9 20.9

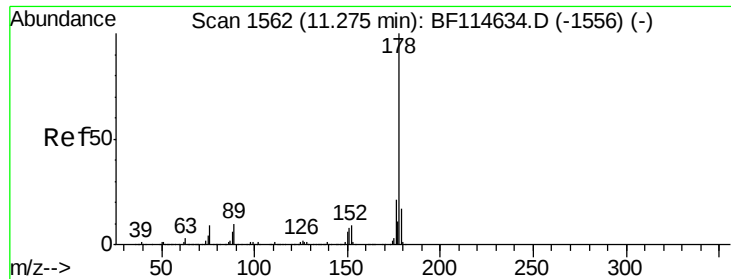


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





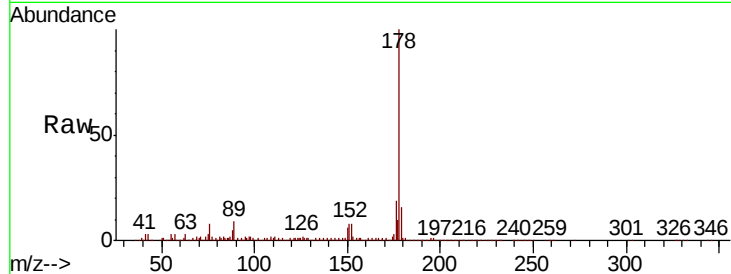
#72
 Anthracene
 Concen: 4.042 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: BF114679.D
 Acq: 30 May 2019 23:53

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-S

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	16.6	24.8
179	15.7	13.4	20.0

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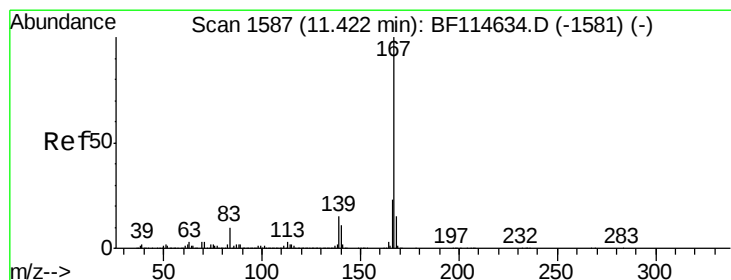
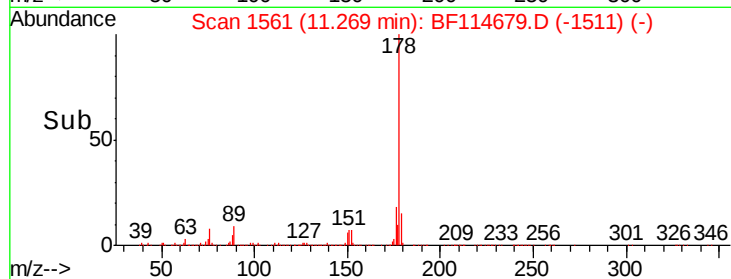
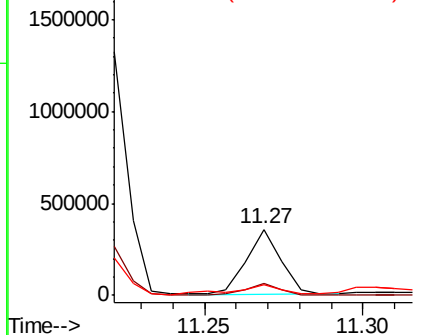


Abundance

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



#73
 Carbazole
 Concen: 2.835 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. 0.00 min
 Lab File: BF114679.D
 Acq: 30 May 2019 23:53

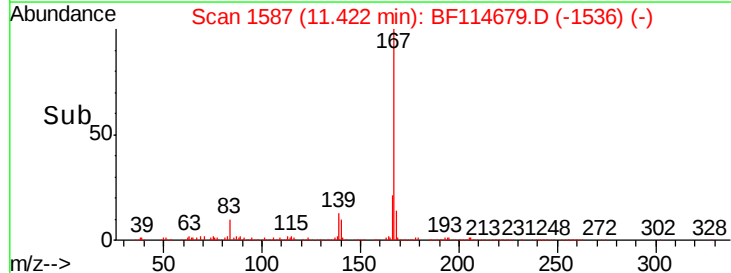
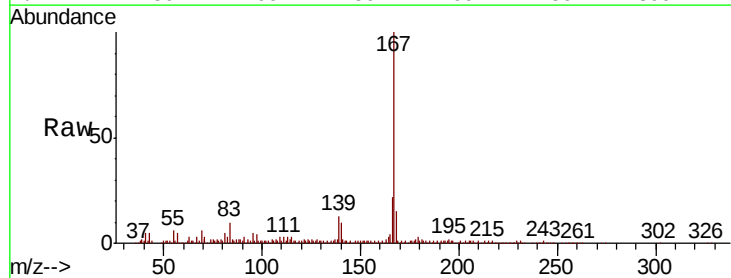
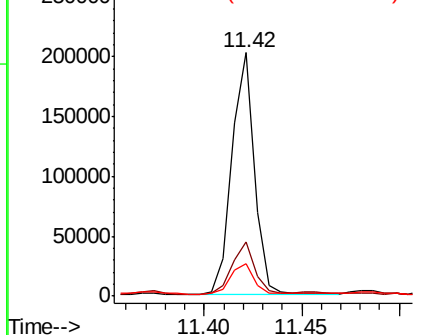
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.7	28.1
139	13.4	11.8	17.8

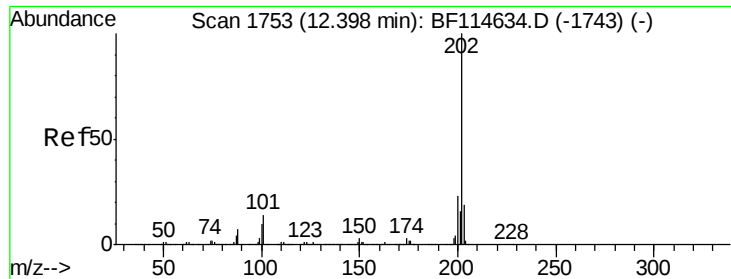
Abundance

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





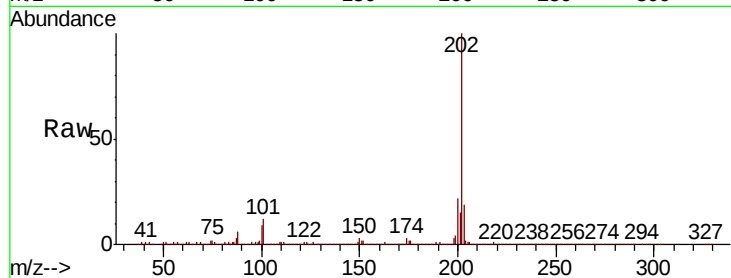
#75
 Fluoranthene
 Concen: 23.448 ng
 RT: 12.40 min Scan# 1754
 Delta R.T. 0.01 min
 Lab File: BF114679.D
 Acq: 30 May 2019 23:53

Instrument :
 BNA_F
 ClientSampled :
 TP-2-S

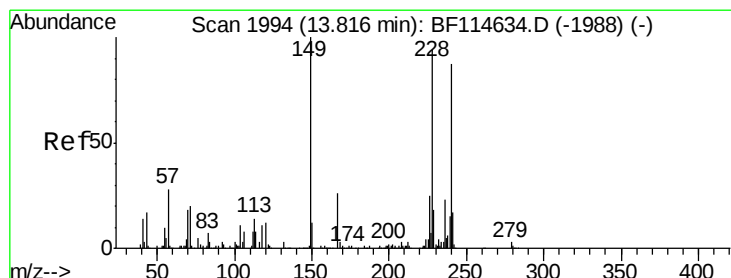
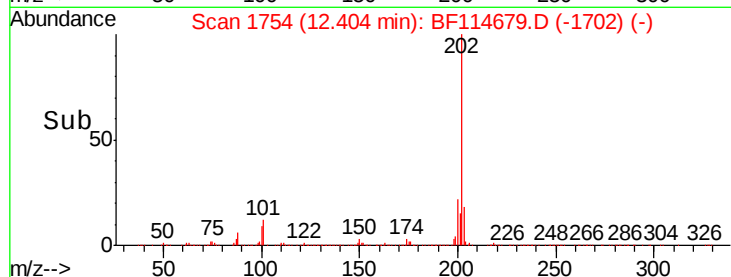
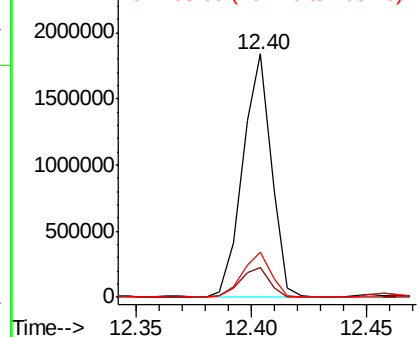
Tot Ion	Ratio	Resp	Lower	Upper
202	100	1582907		
101	12.0		0.0	33.9
203	18.6		0.0	39.1

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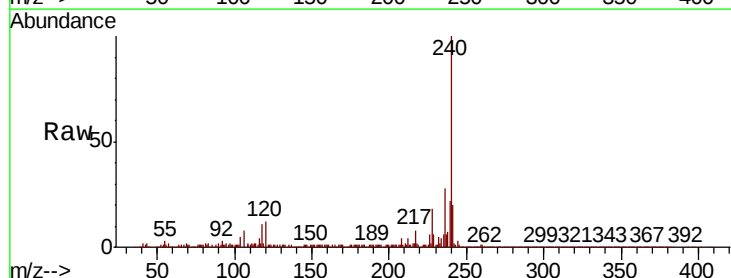


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

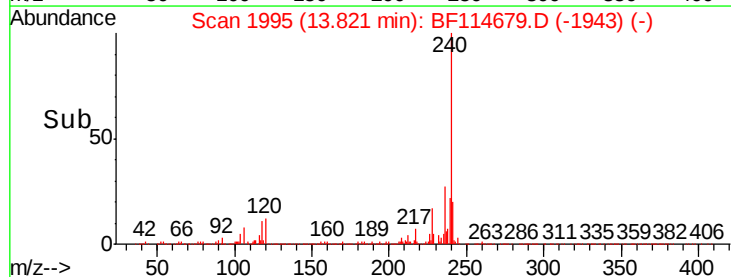
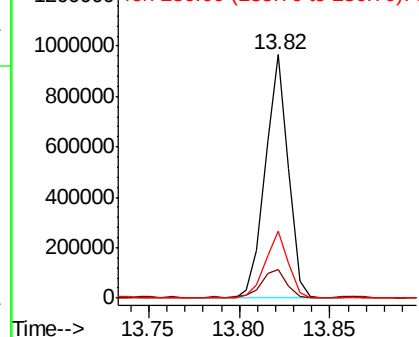


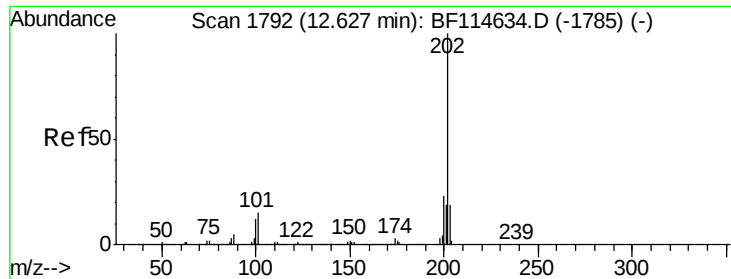
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.82 min Scan# 1995
 Delta R.T. 0.01 min
 Lab File: BF114679.D
 Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	848619		
120	11.9		11.2	16.8
236	27.7		21.2	31.8



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 21.056 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Instrument :

BNA_F

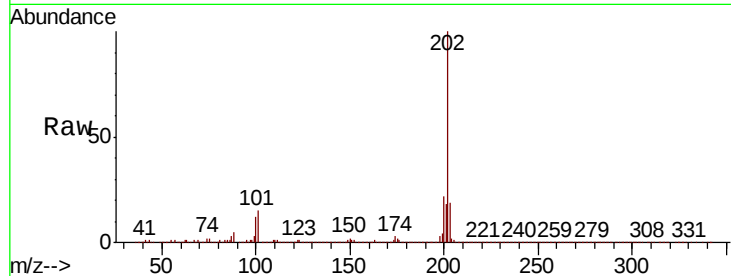
ClientSampleId :

TP-2-S

Tot Ion:	202	Resp:	1511526
Ion	Ratio	Lower	Upper
202	100		
200	22.3	18.6	28.0
203	19.0	15.4	23.2

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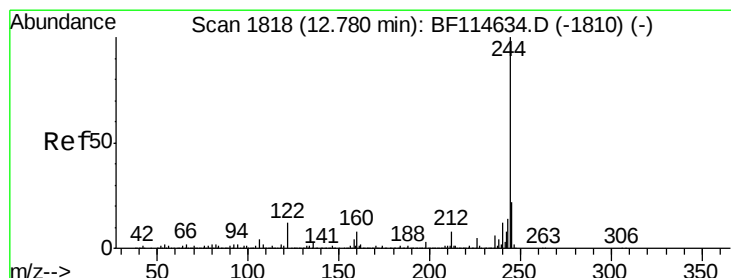
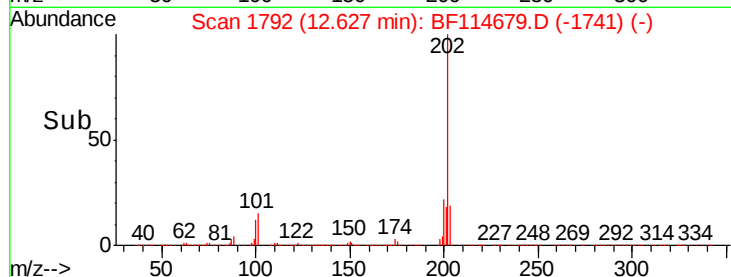
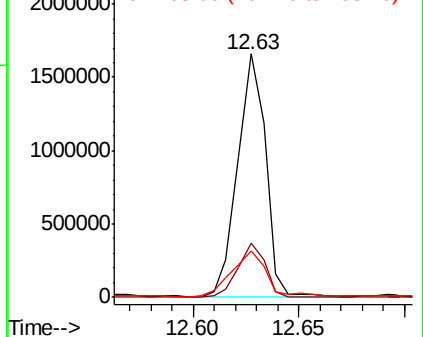


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 46.540 ng

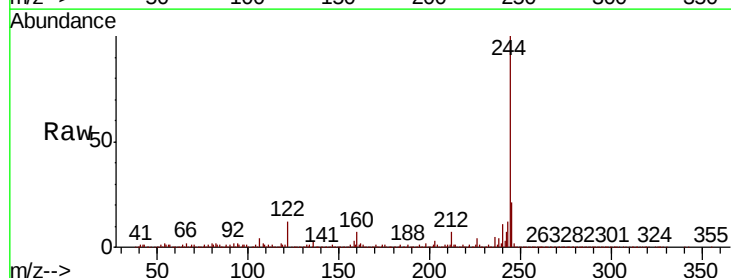
RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Tgt Ion:	244	Resp:	2100602
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.1	9.1
122	12.0	9.8	14.8

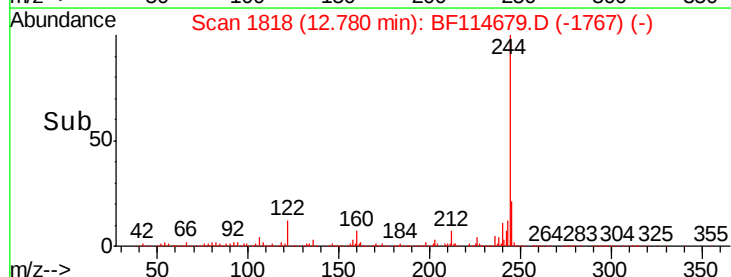
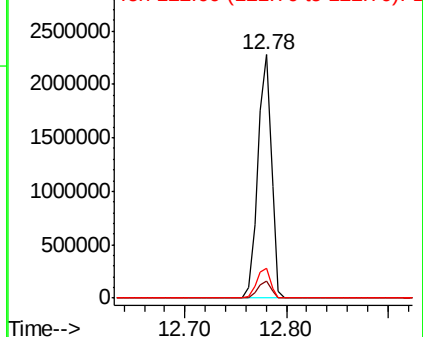


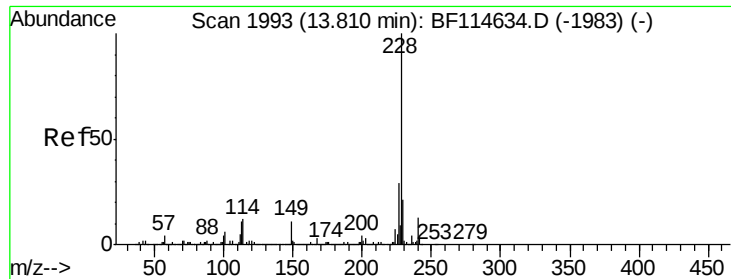
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 12.393 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Instrument :

BNA_F

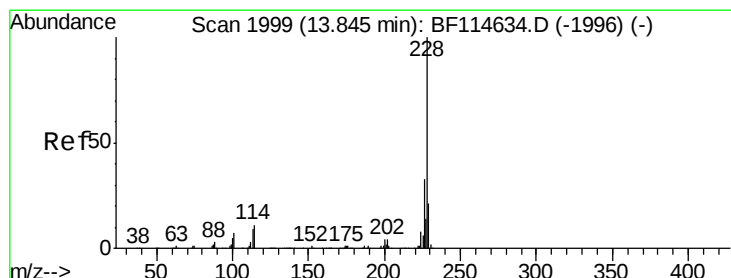
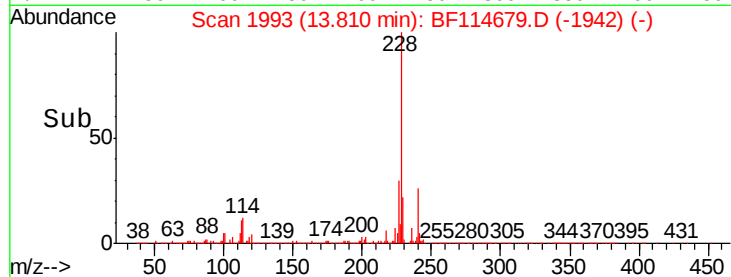
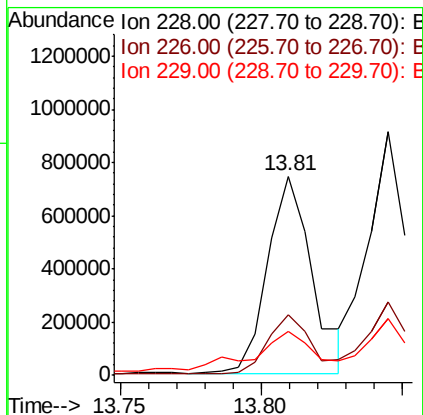
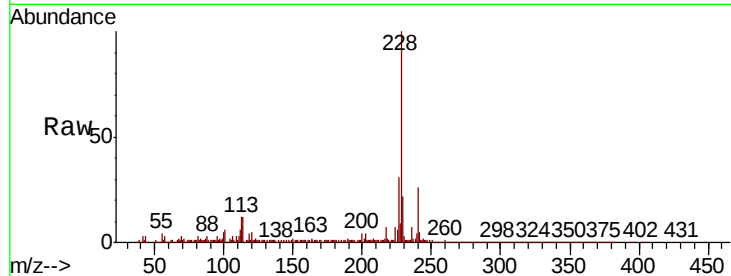
ClientSampleId :

TP-2-S

Tot Ion:	228	Resp:	808176
Ion Ratio	Lower	Upper	
228	100		
226	30.7	23.0	34.6
229	22.3	17.0	25.4

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#83

Chrysene

Concen: 13.293 ng

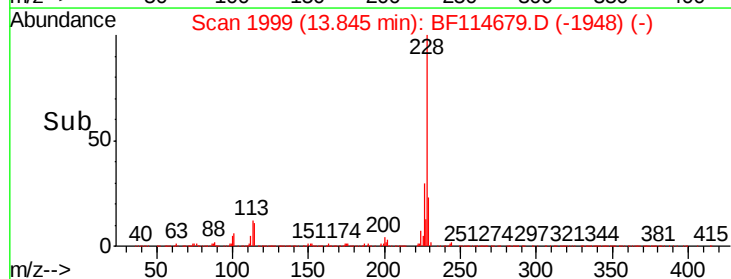
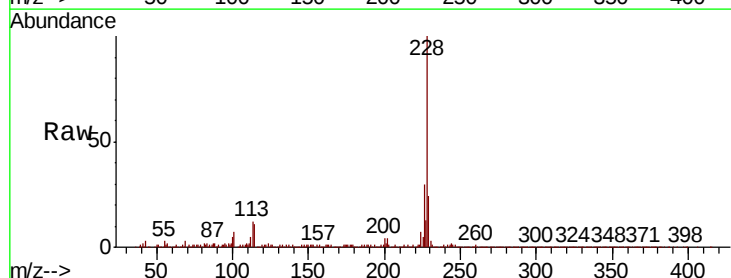
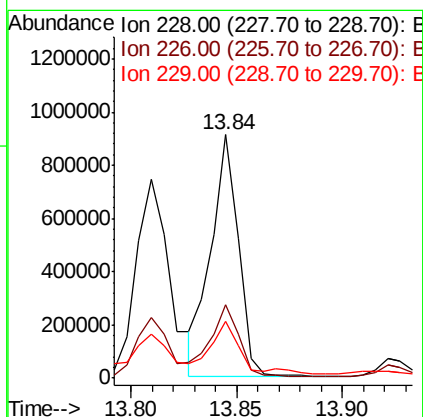
RT: 13.84 min Scan# 1999

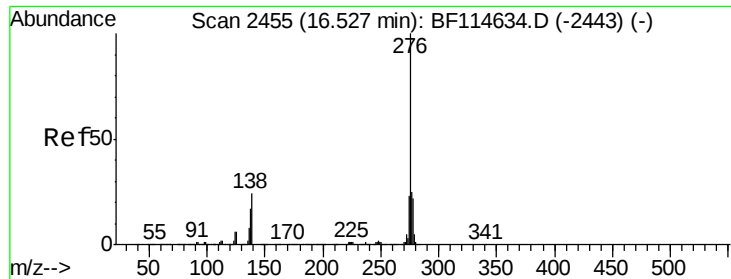
Delta R.T. -0.00 min

Lab File: BF114679.D

Acq: 30 May 2019 23:53

Tgt Ion:	228	Resp:	828256
Ion Ratio	Lower	Upper	
228	100		
226	30.2	26.4	39.6
229	23.6	17.1	25.7





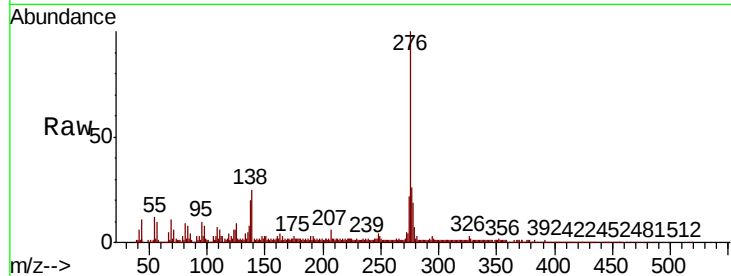
#86
Indeno(1,2,3-cd)pyrene
Concen: 4.870 ng
RT: 16.53 min Scan# 2455
Delta R.T. -0.00 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Instrument :
BNA_F
ClientSampleId :
TP-2-S

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.4	23.0	34.6
277	24.7	20.5	30.7

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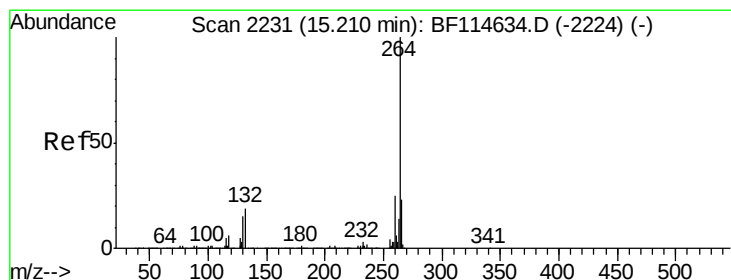
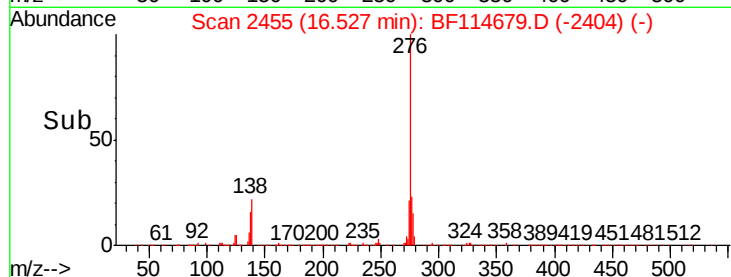
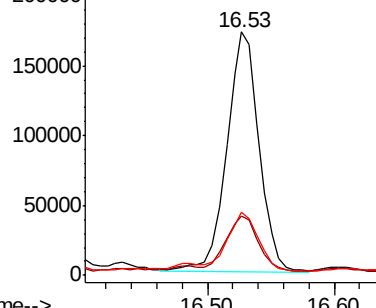


Abundance

Ion 276.00 (275.70 to 276.70): E

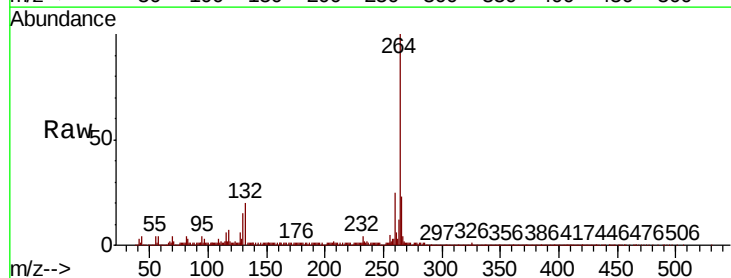
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.00 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.7	29.5
265	22.6	18.1	27.1

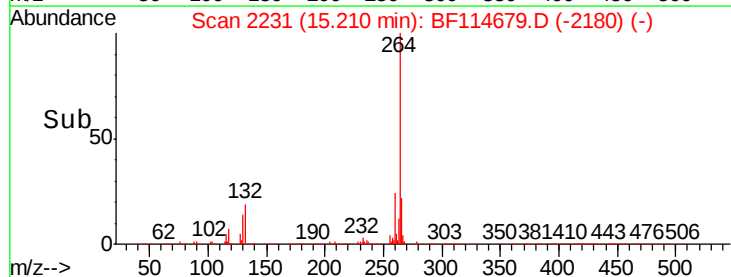
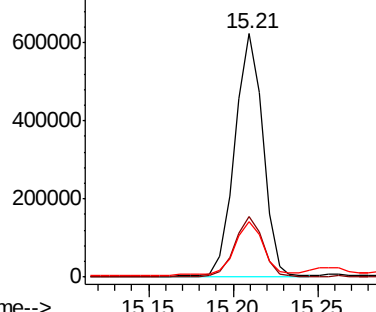


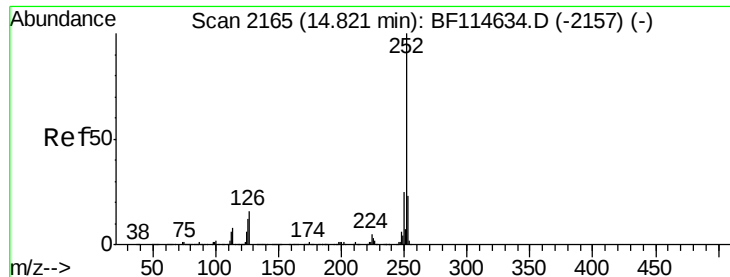
Abundance

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





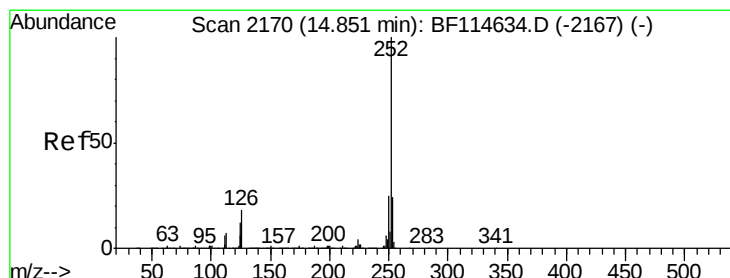
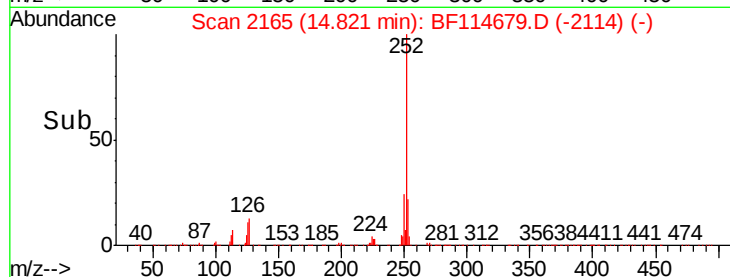
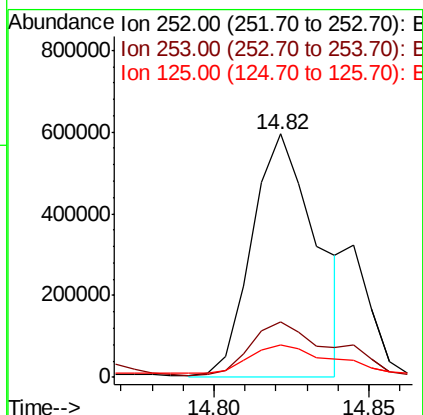
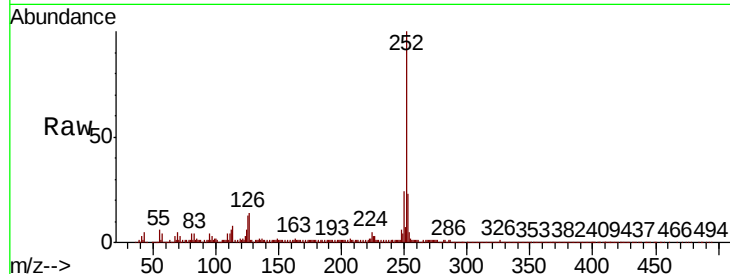
#88
Benzo(b)fluoranthene
Concen: 19.323 ng m
RT: 14.82 min Scan# 2165
Delta R.T. -0.00 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Instrument :
BNA_F
ClientSampleId :
TP-2-S

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.7	28.1
125	13.2	9.4	14.2

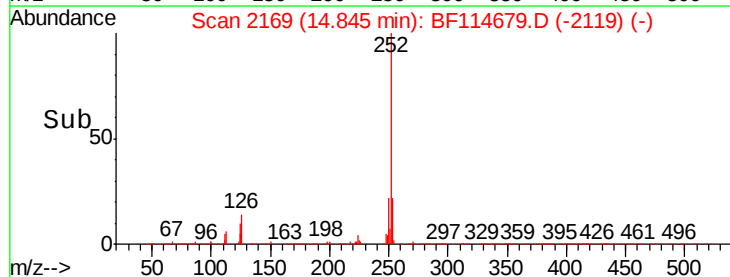
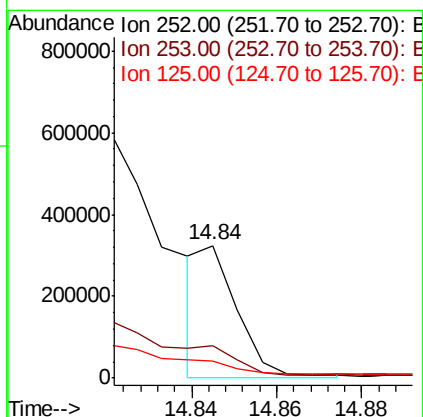
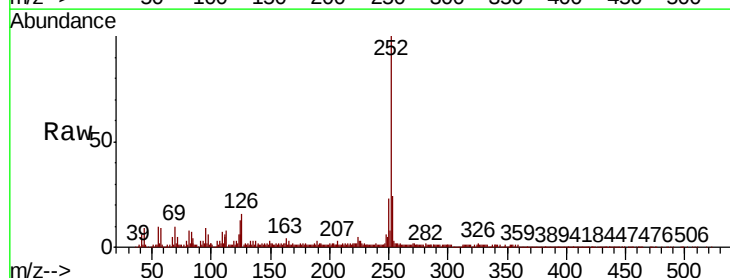
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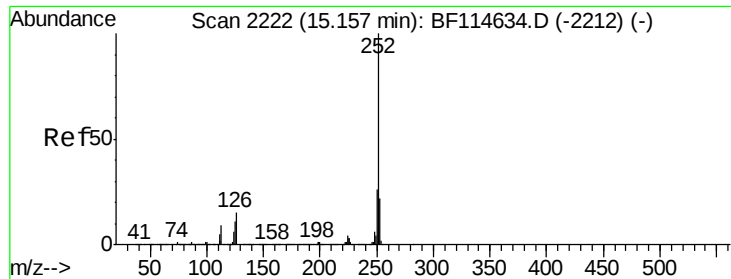
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#89
Benzo(k)fluoranthene
Concen: 5.019 ng m
RT: 14.84 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.9	28.3
125	13.1	9.5	14.3





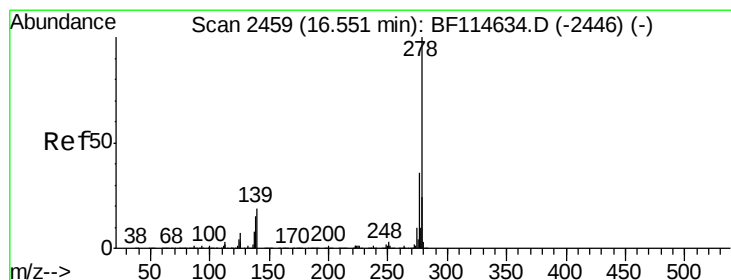
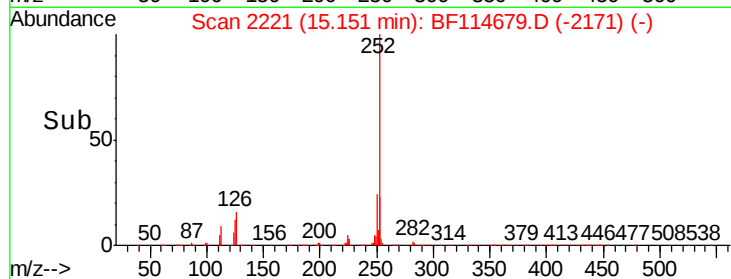
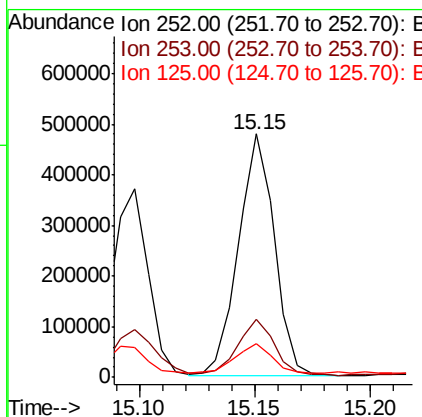
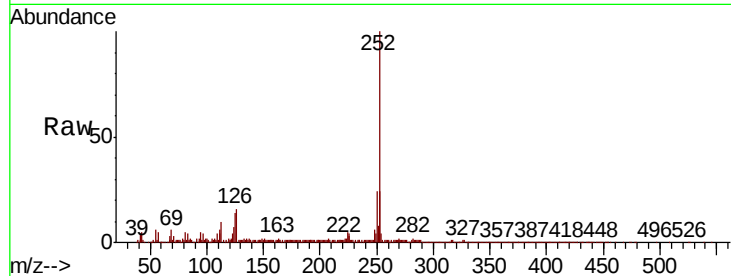
#90
Benzo(a)pyrene
Concen: 13.150 ng
RT: 15.15 min Scan# 2221
Delta R.T. -0.01 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Instrument :
BNA_F
ClientSampleId :
TP-2-S

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.0	27.0
125	13.7	9.2	13.8

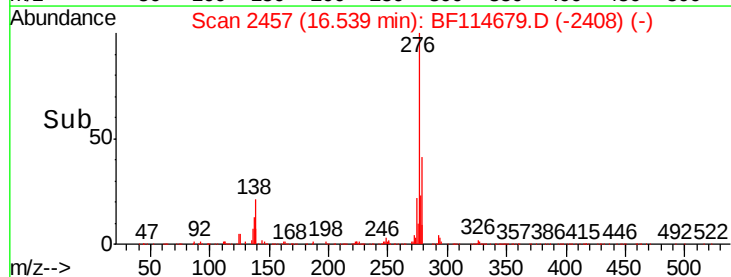
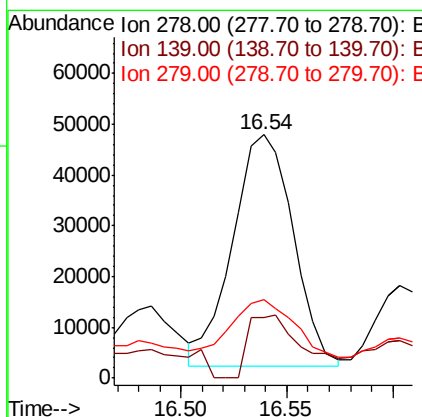
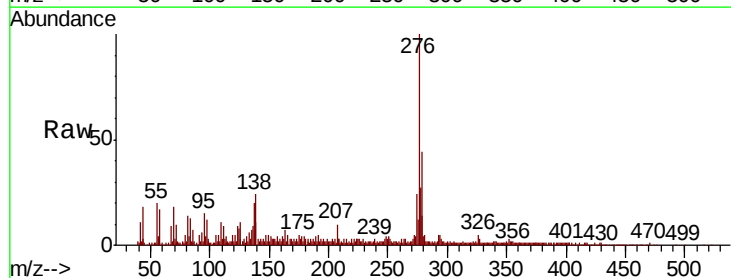
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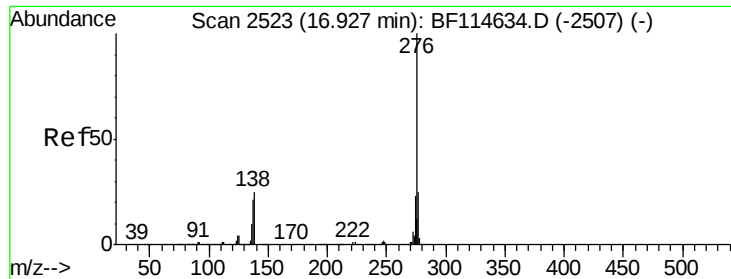
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 2.622 ng
RT: 16.54 min Scan# 2457
Delta R.T. -0.01 min
Lab File: BF114679.D
Acq: 30 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.6	14.9	22.3#
279	32.0	19.5	29.3#





#92
 Benzo(a,h,i)perylene
 Concen: 8.326 ng
 RT: 16.93 min Scan# 2523
 Delta R.T. -0.00 min
 Lab File: BF114679.D
 Acq: 30 May 2019 23:53

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-S

Tot Ion:	276	Resp:	280420
Ion Ratio	Lower	Upper	
276	100		
277	25.2	19.7	29.5
138	24.8	19.8	29.8

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