

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082319\
 Data File : BF116494.D
 Acq On : 23 Aug 2019 23:02
 Operator : HP/JU
 Sample : K4387-18
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T4-B1-B4-(0-2)

Quant Time: Aug 24 03:36:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	117225	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	439161	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	203001	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	297374	20.00	ng	0.00
76) Chrysene-d12	14.03	240	207111	20.00	ng	0.00
87) Perylene-d12	15.50	264	261403	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	619967	77.28	ng	0.00
7) Phenol-d6	6.50	99	817200	83.07	ng	0.00
23) Nitrobenzene-d5	7.44	82	496902	61.90	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	141450	81.15	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	724421	57.47	ng	0.00
79) Terphenyl-d14	12.98	244	550116	49.61	ng	0.00

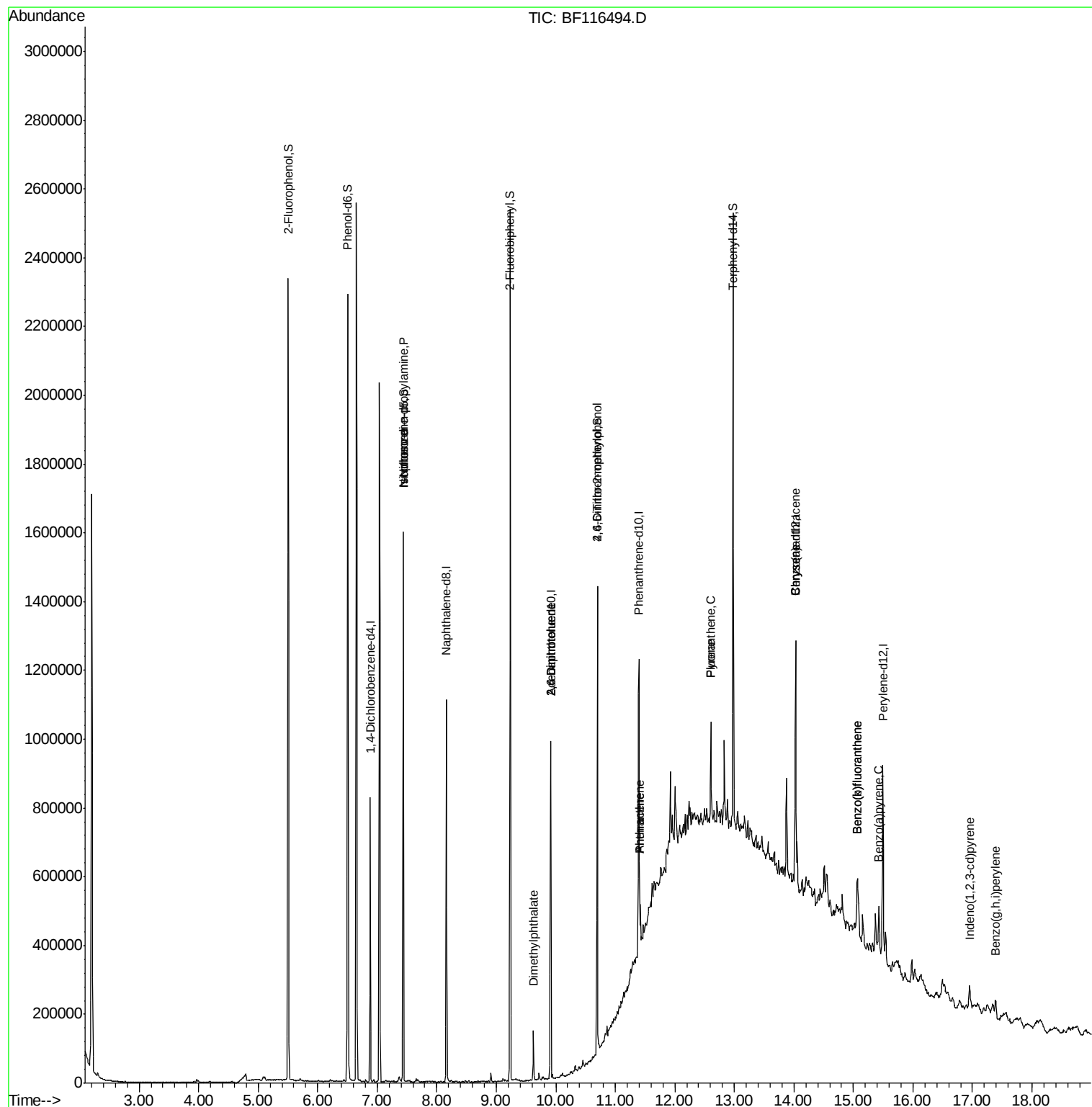
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	66720	9.940	ng	# 77
25) Isophorone	7.44	82	496995	31.418	ng	# 67
50) Dimethylphthalate	9.62	163	46690	3.297	ng	100
51) 2,6-Dinitrotoluene	9.91	165	26667	9.199	ng	# 26
57) 2,4-Dinitrotoluene	9.91	165	26667	7.229	ng	# 21
65) 4,6-Dinitro-2-methylphenol	10.70	198	386	7.276	ng	# 1
71) Phenanthrene	11.42	178	50534	3.119	ng	98
72) Anthracene	11.42	178	50534	3.104	ng	97
75) Fluoranthene	12.61	202	104145	6.218	ng	98
78) Pyrene	12.61	202	104145	6.288	ng	98
81) Benzo(a)anthracene	14.02	228	57261	4.269	ng	94
83) Chrysene	14.02	228	57261	4.212	ng	97
86) Indeno(1,2,3-cd)pyrene	16.95	276	42134	3.618	ng	93
88) Benzo(b)fluoranthene	15.07	252	108760	6.735	ng	95
89) Benzo(k)fluoranthene	15.07	252	108760	7.434	ng	# 94
90) Benzo(a)pyrene	15.43	252	56741	3.976	ng	# 91
92) Benzo(g,h,i)perylene	17.39	276	42660	3.816	ng	98

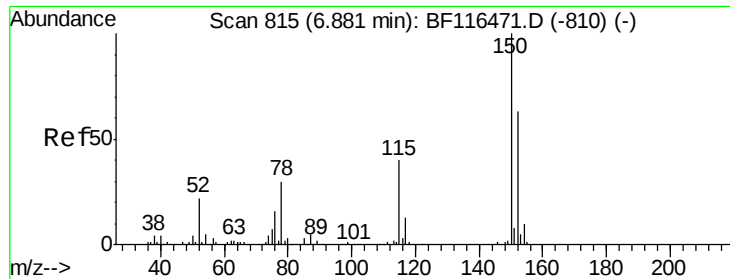
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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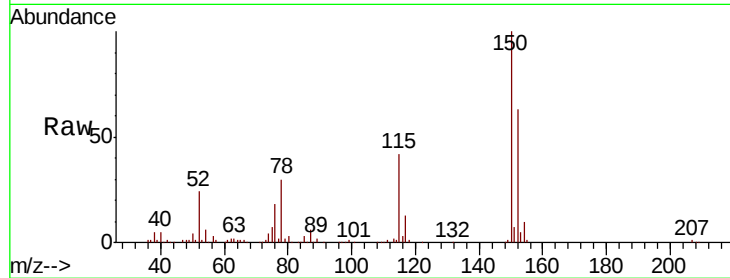


#1

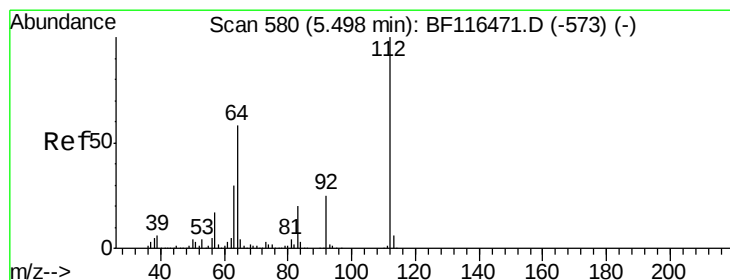
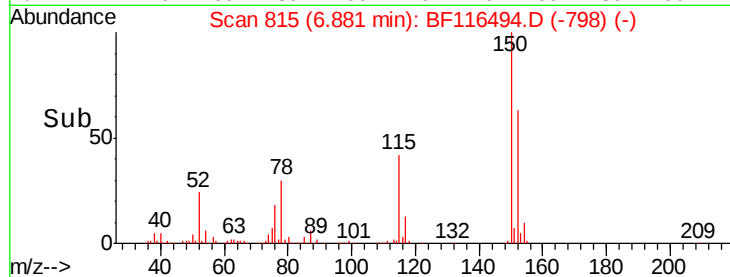
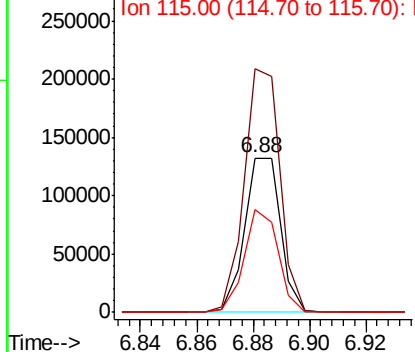
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Instrument :
BNA_F
ClientSampleId :
T4-B1-B4-(0-2)

Tgt Ion:152 Resp: 117225
Ion Ratio Lower Upper
152 100
150 157.7 126.7 190.1
115 66.9 50.9 76.3



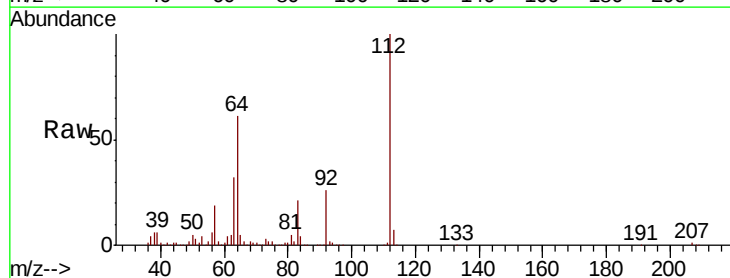
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



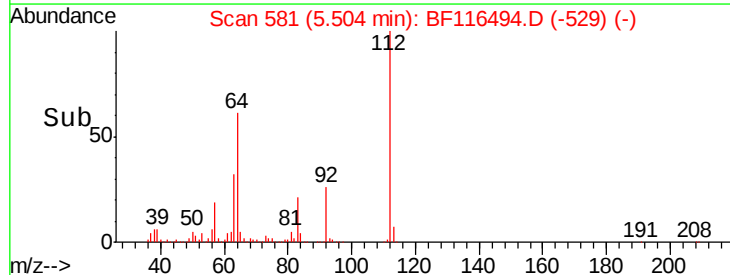
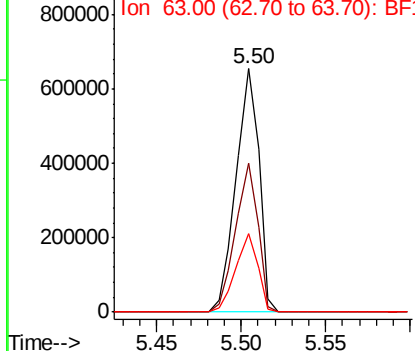
#5

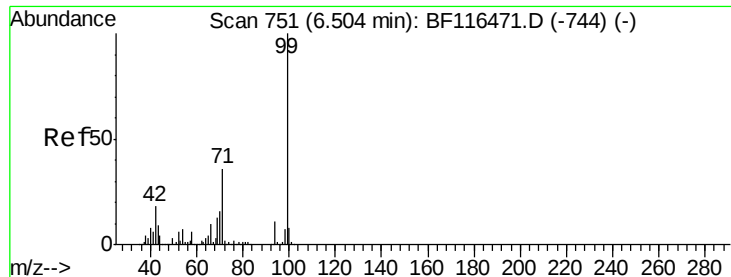
2-Fluorophenol
Concen: 77.276 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Tgt Ion:112 Resp: 619967
Ion Ratio Lower Upper
112 100
64 60.9 46.3 69.5
63 32.1 24.2 36.4



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: 83.073 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

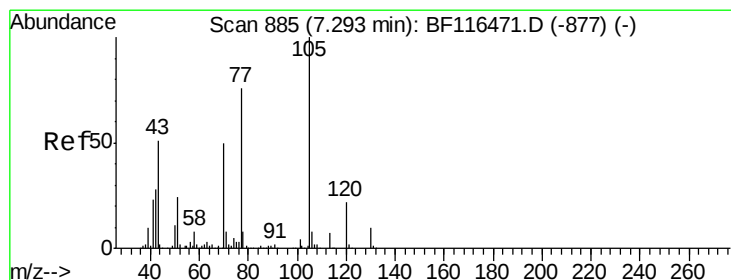
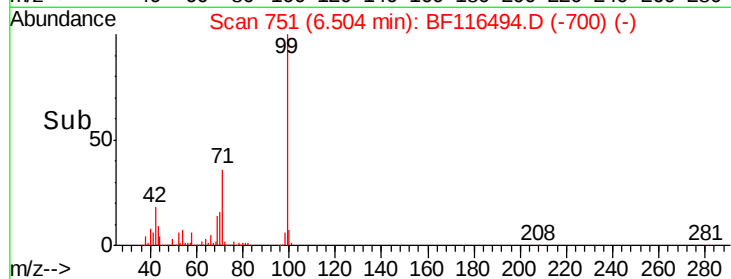
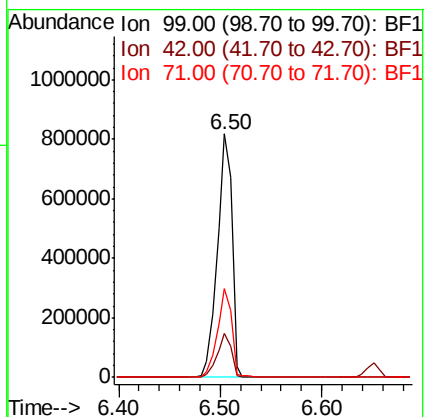
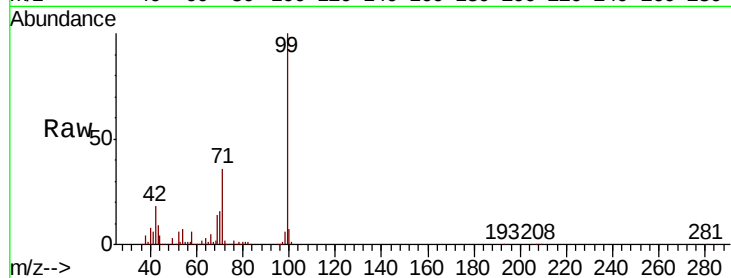
Tgt Ion: 99 Resp: 817200

Ion Ratio Lower Upper

99 100

42 18.2 14.6 21.8

71 36.4 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 9.940 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Tgt Ion: 70 Resp: 66720

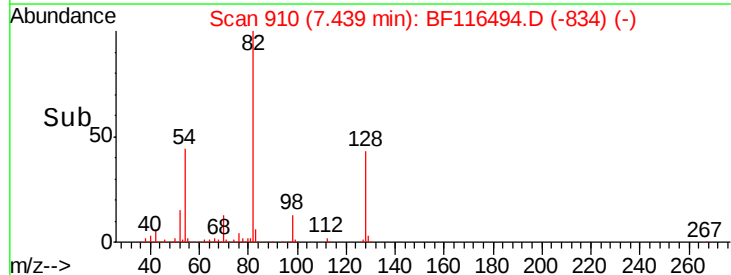
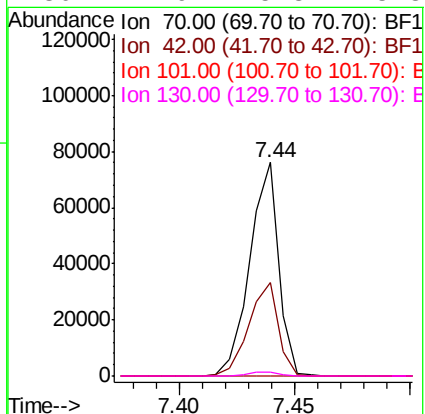
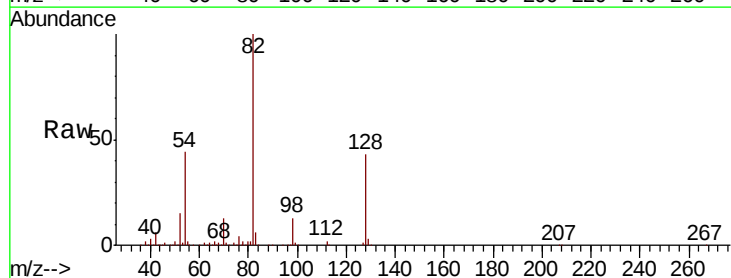
Ion Ratio Lower Upper

70 100

42 43.5 44.4 66.6#

101 0.0 7.1 10.7#

130 1.9 15.8 23.8#

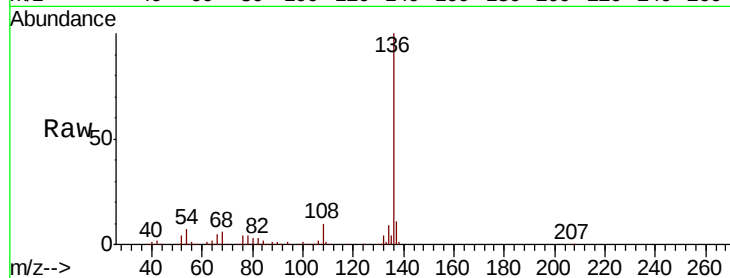




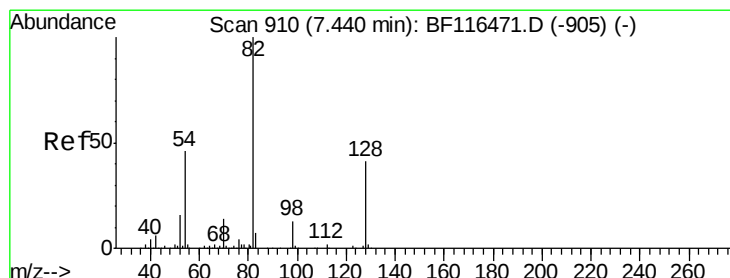
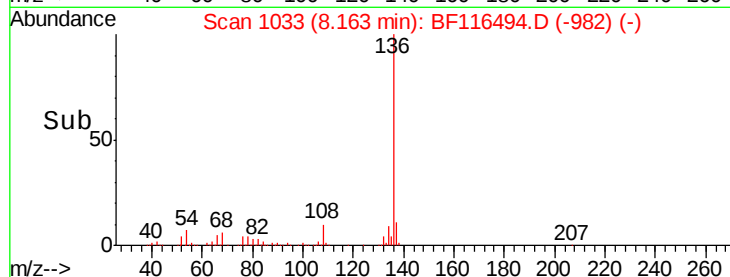
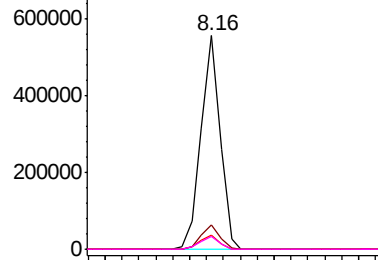
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Instrument :
BNA_F
ClientSampleId :
T4-B1-B4-(0-2)

Tgt Ion:	136	Resp:	439161
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.6	5.8	8.6
68	5.9	5.1	7.7

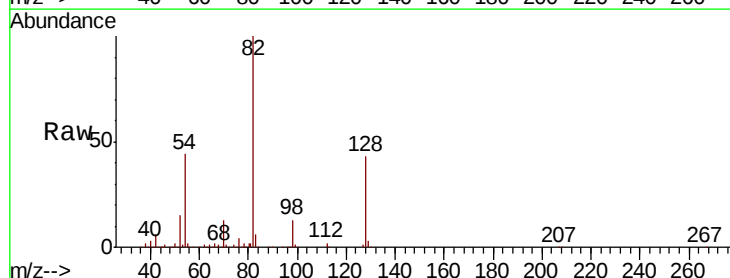


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

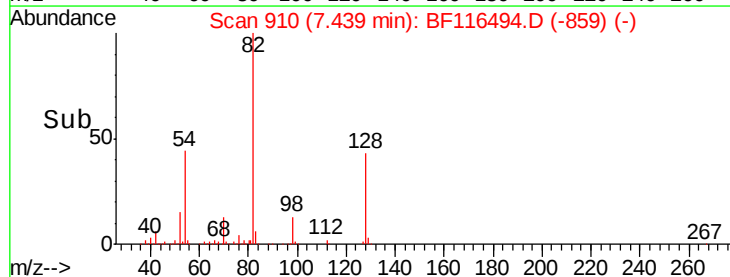
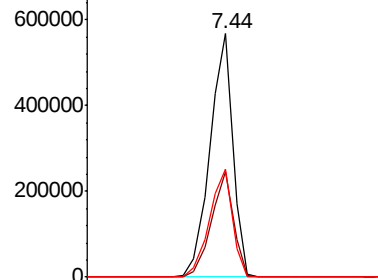


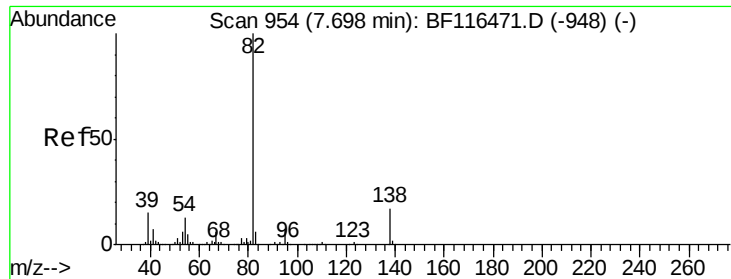
#23
Nitrobenzene-d5
Concen: 61.903 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Tgt Ion:	82	Resp:	496902
Ion	Ratio	Lower	Upper
82	100		
128	43.3	32.2	48.4
54	44.1	36.5	54.7



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 31.418 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

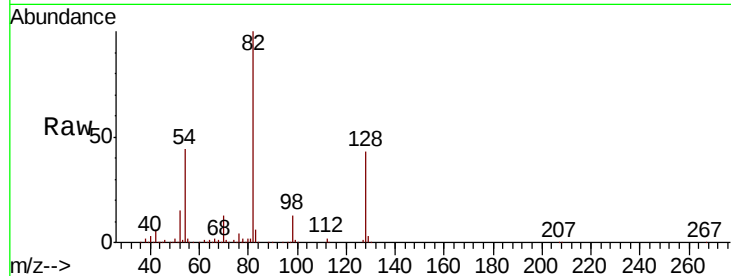
Tgt Ion: 82 Resp: 496995

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

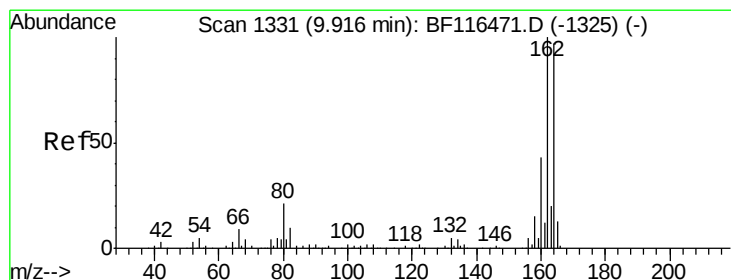
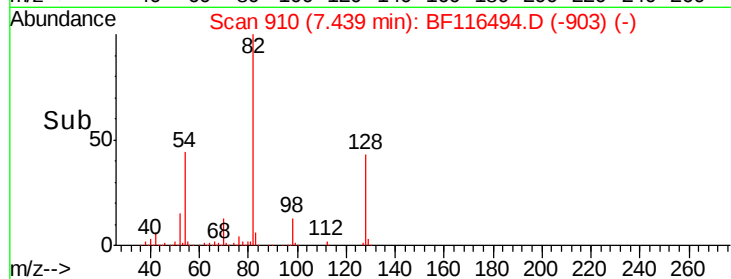
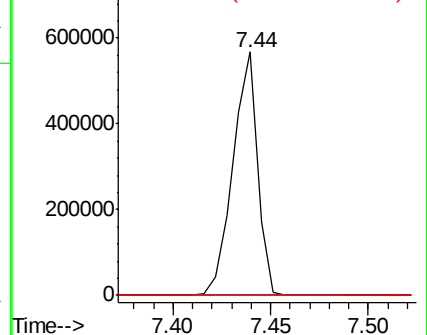
138 0.0 13.3 19.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

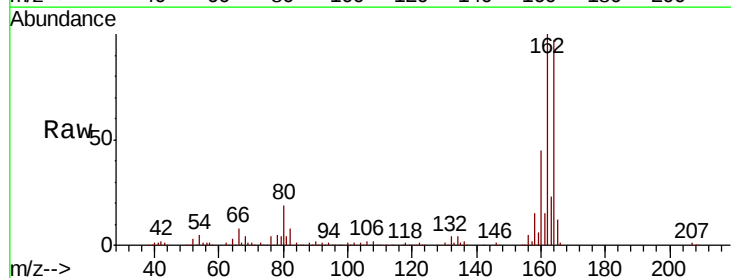
Tgt Ion: 164 Resp: 203001

Ion Ratio Lower Upper

164 100

162 103.2 82.6 123.8

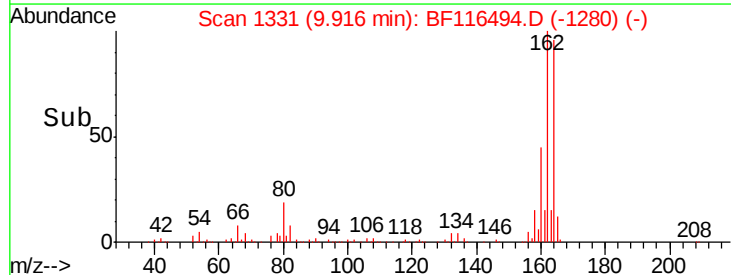
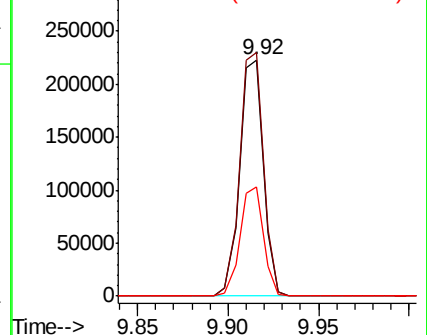
160 46.2 35.8 53.8

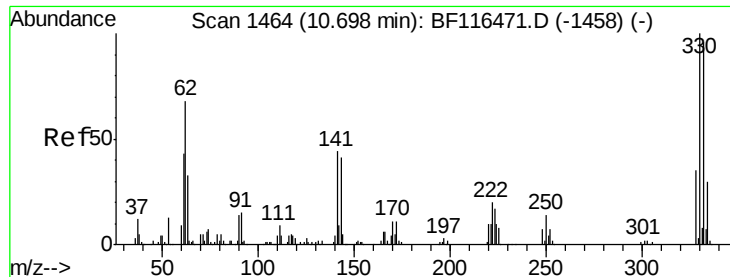


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 81.148 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.00 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

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ClientSampleId :

T4-B1-B4-(0-2)

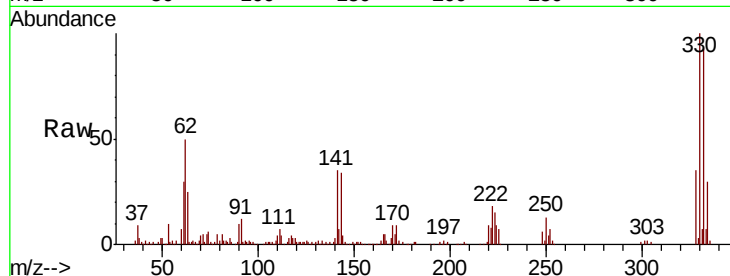
Tgt Ion:330 Resp: 141450

Ion Ratio Lower Upper

330 100

332 94.7 77.2 115.8

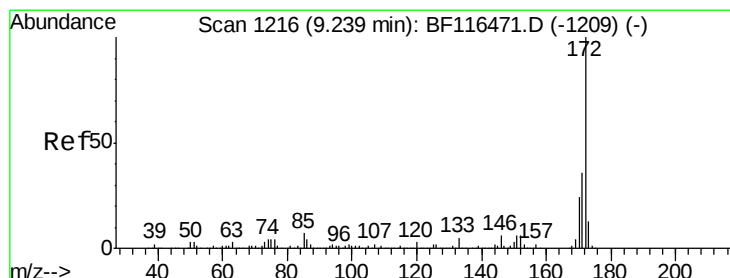
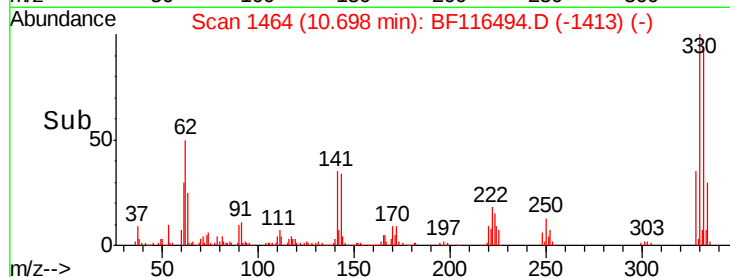
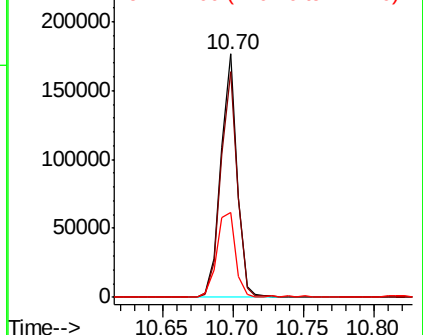
141 40.4 33.3 49.9



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



#45

2-Fluorobiphenyl

Concen: 57.468 ng

RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

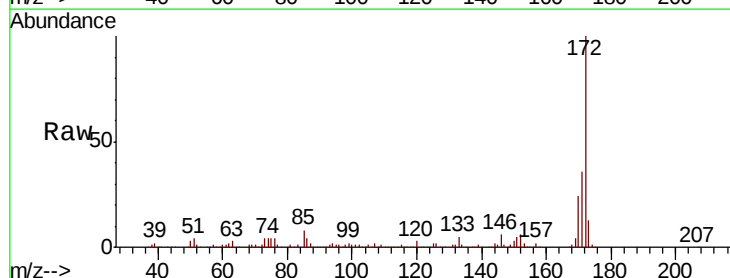
Tgt Ion:172 Resp: 724421

Ion Ratio Lower Upper

172 100

171 35.7 28.9 43.3

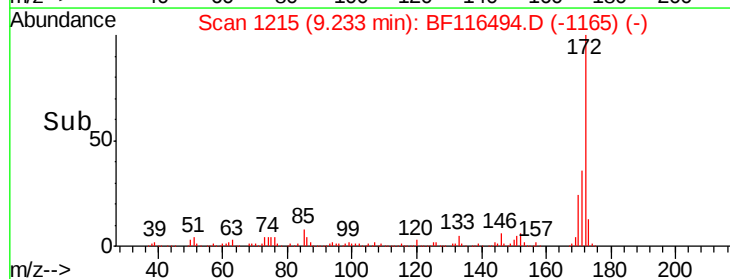
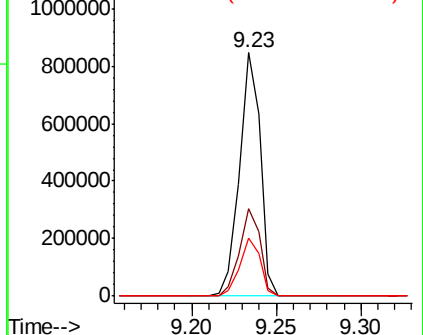
170 23.6 19.4 29.0

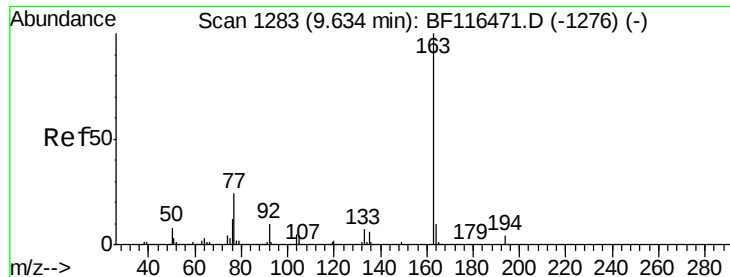


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

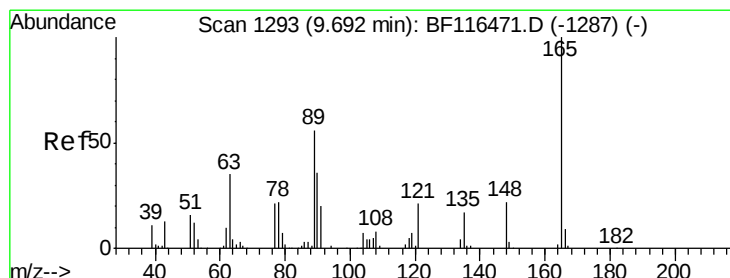
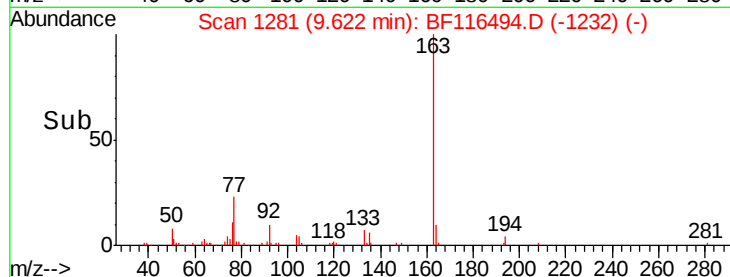
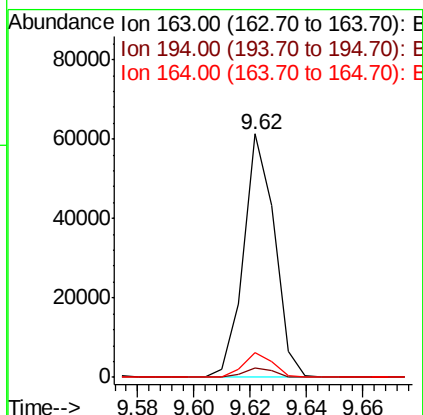
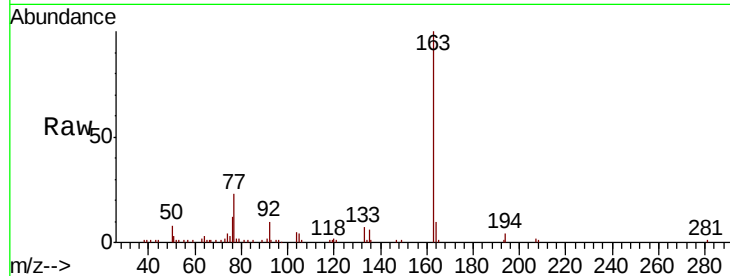




#50
Dimethylphthalate
Concen: 3.297 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

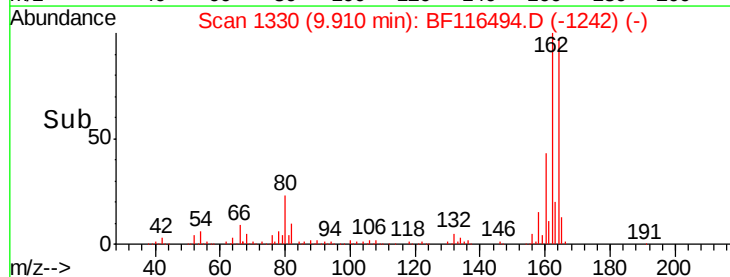
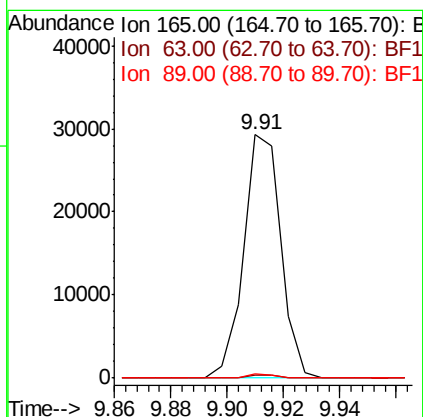
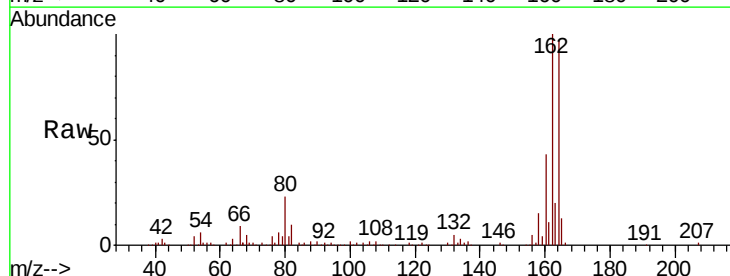
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T4-B1-B4-(0-2)

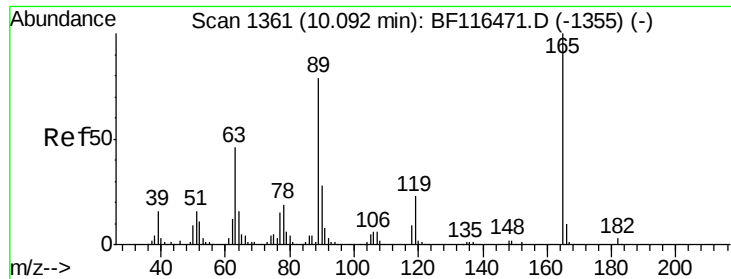
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.9	4.3
164	10.1	8.2	12.2



#51
2,6-Dinitrotoluene
Concen: 9.199 ng
RT: 9.91 min Scan# 1330
Delta R.T. 0.22 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	43.7	65.5#
89	1.5	45.1	67.7#





#57

2,4-Dinitrotoluene

Concen: 7.229 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.18 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

Tgt Ion:165 Resp: 26667

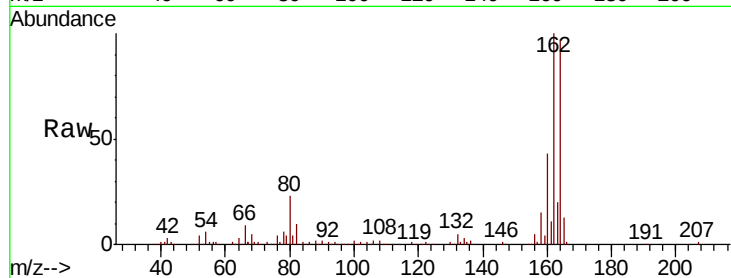
Ion Ratio Lower Upper

165 100

63 1.4 36.9 55.3#

89 1.5 63.4 95.0#

182 0.0 2.1 3.1#

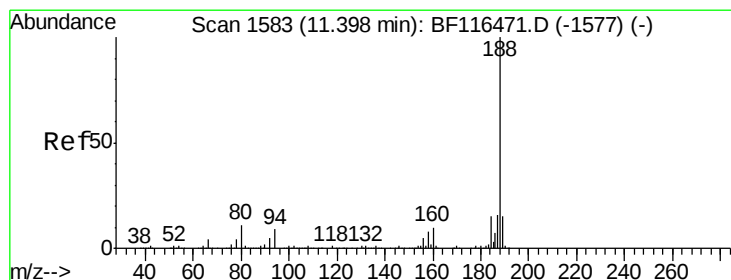
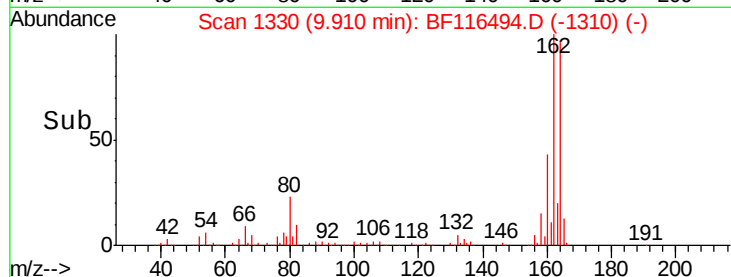
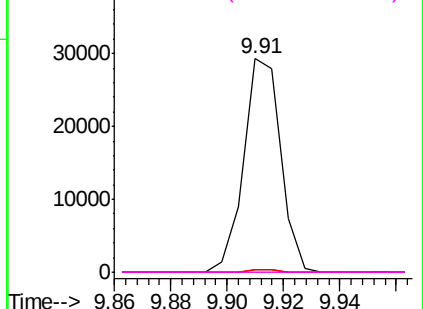


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

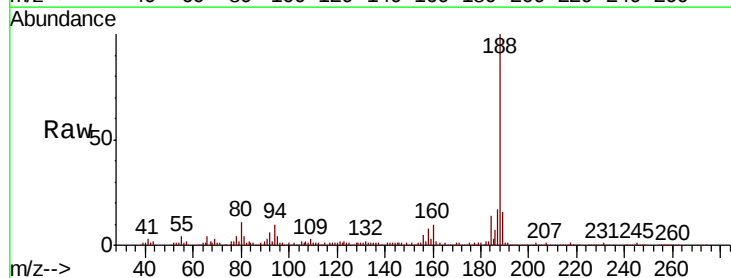
Tgt Ion:188 Resp: 297374

Ion Ratio Lower Upper

188 100

94 9.6 7.4 11.2

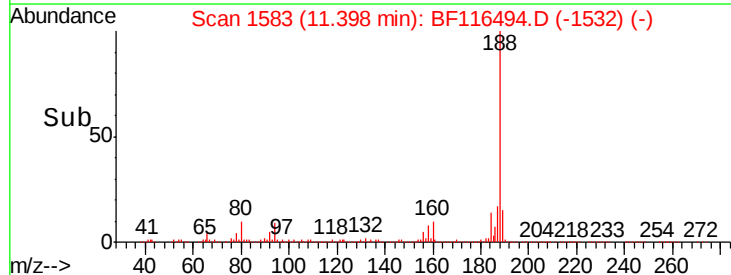
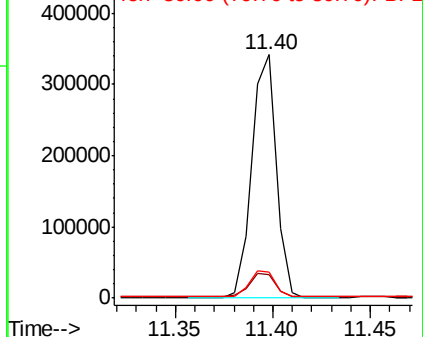
80 10.5 8.6 12.8

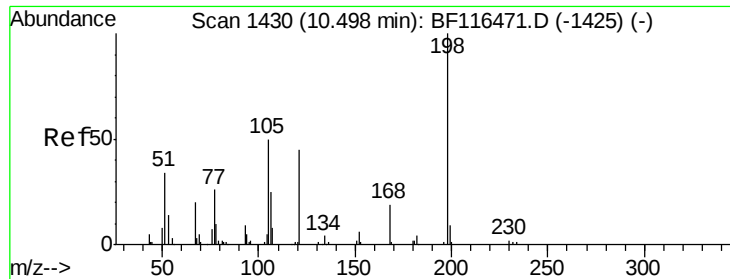


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

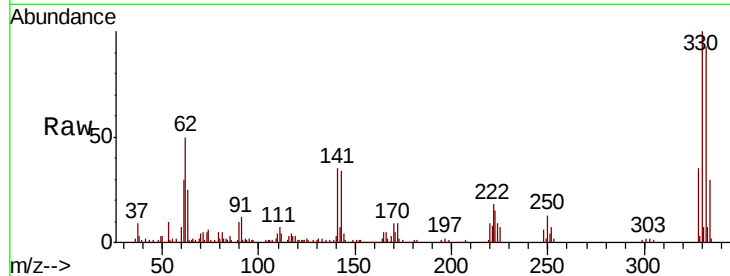




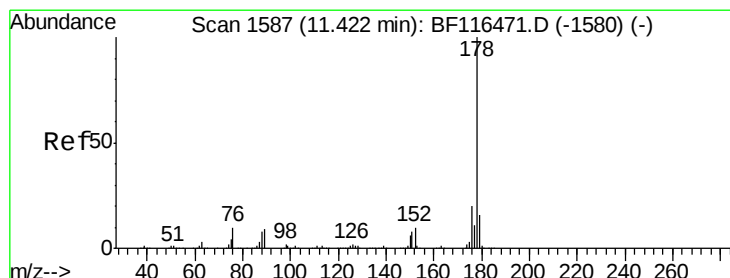
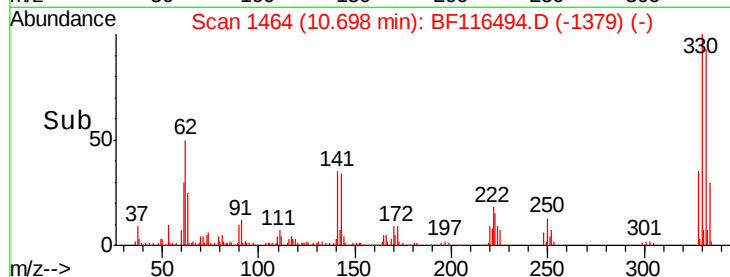
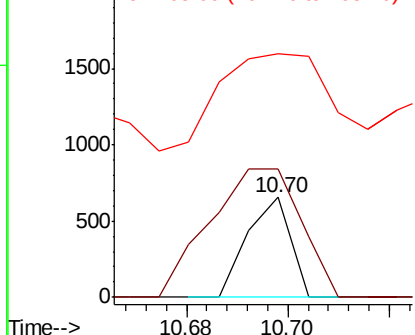
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.276 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.20 min
 Lab File: BF116494.D
 Acq: 23 Aug 2019 23:02

Instrument :
 BNA_F
 ClientSampleId :
 T4-B1-B4-(0-2)

Tgt Ion:198 Resp: 386
 Ion Ratio Lower Upper
 198 100
 51 128.6 30.4 70.4#
 105 244.4 32.8 72.8#

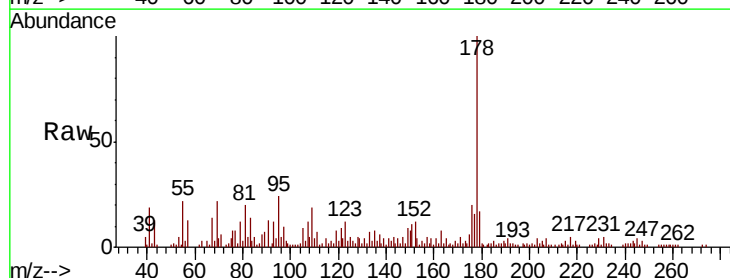


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

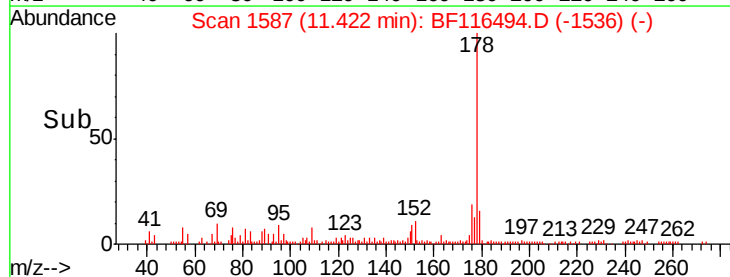
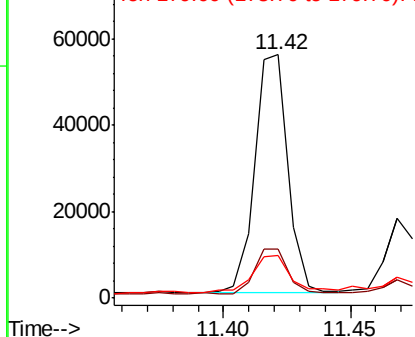


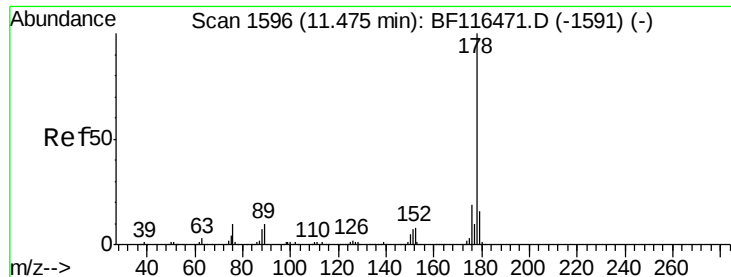
#71
 Phenanthrene
 Concen: 3.119 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: BF116494.D
 Acq: 23 Aug 2019 23:02

Tgt Ion:178 Resp: 50534
 Ion Ratio Lower Upper
 178 100
 176 20.1 15.8 23.6
 179 17.4 12.8 19.2



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

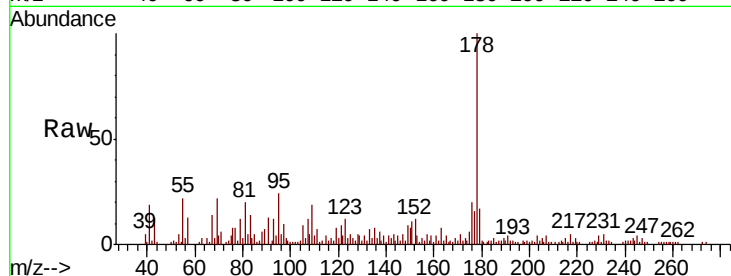




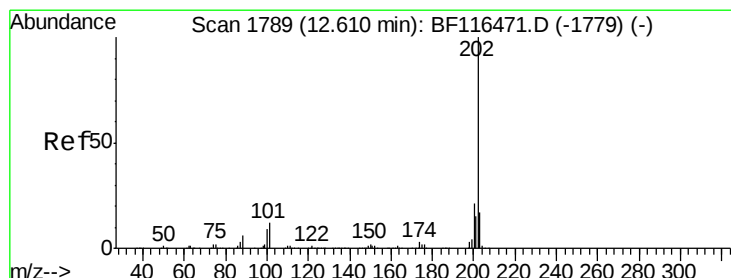
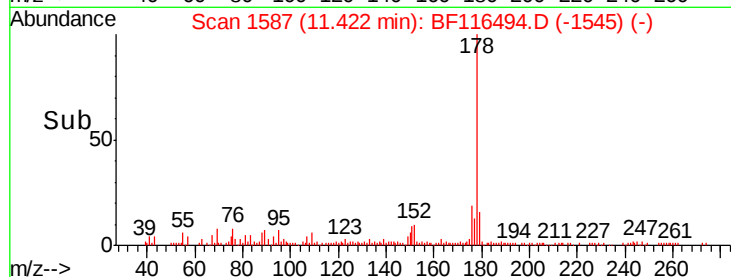
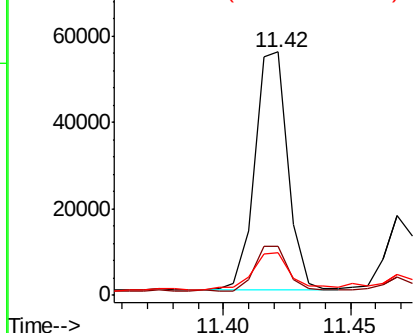
#72
 Anthracene
 Concen: 3.104 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.05 min
 Lab File: BF116494.D
 Acq: 23 Aug 2019 23:02

Instrument :
 BNA_F
 ClientSampleId :
 T4-B1-B4-(0-2)

Tgt Ion:178 Resp: 50534
 Ion Ratio Lower Upper
 178 100
 176 20.1 15.2 22.8
 179 17.4 12.5 18.7

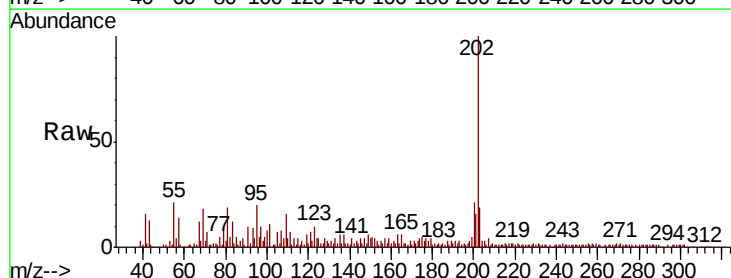


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

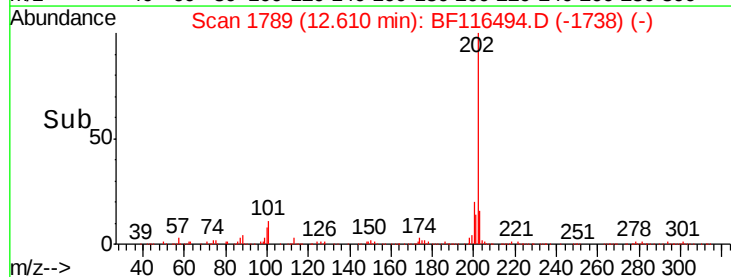
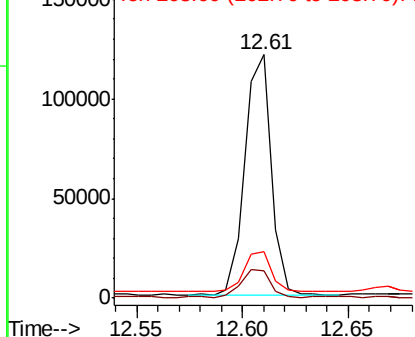


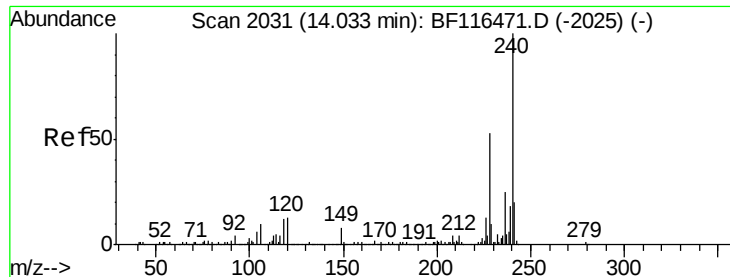
#75
 Fluoranthene
 Concen: 6.218 ng
 RT: 12.61 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: BF116494.D
 Acq: 23 Aug 2019 23:02

Tgt Ion:202 Resp: 104145
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 31.5
 203 19.1 0.0 37.5



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

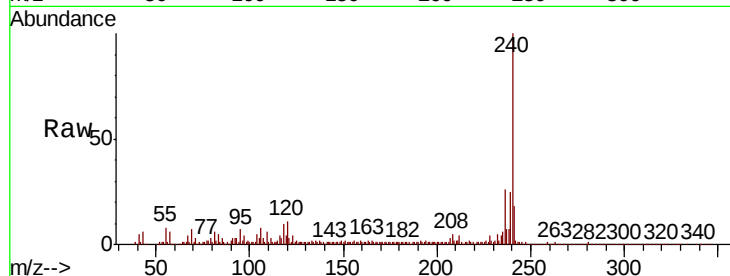




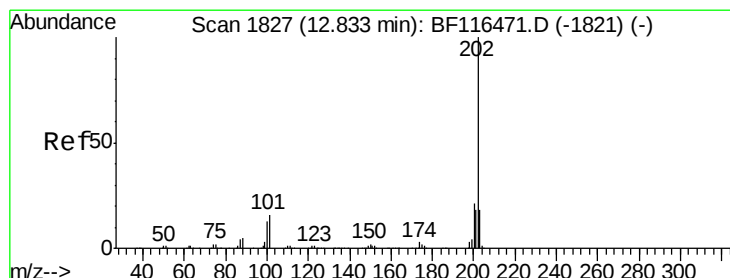
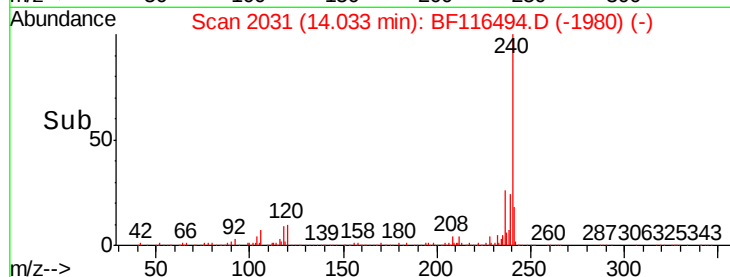
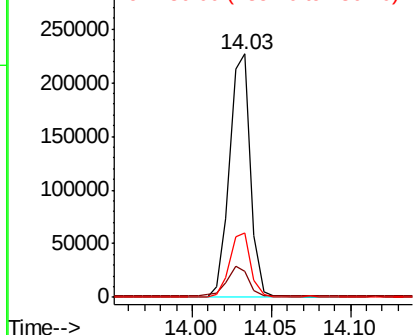
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.00 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Instrument :
BNA_F
ClientSampleId :
T4-B1-B4-(0-2)

Tgt Ion:240 Resp: 207111
Ion Ratio Lower Upper
240 100
120 10.6 10.5 15.7
236 26.5 20.2 30.2

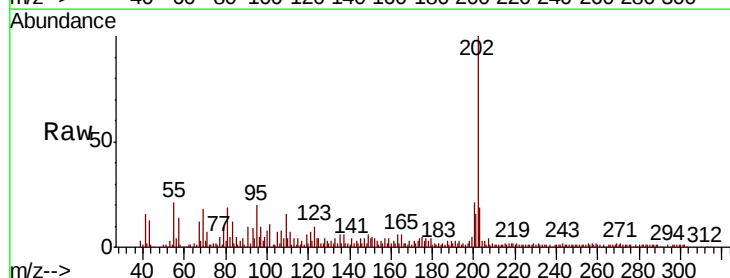


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

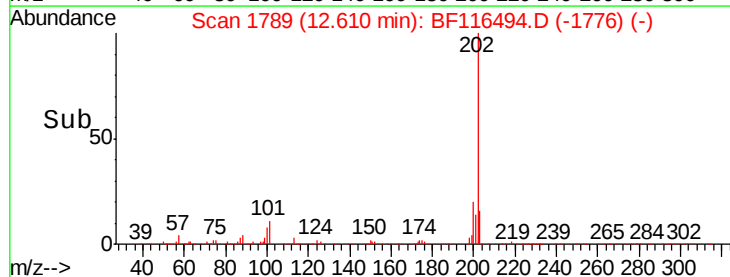
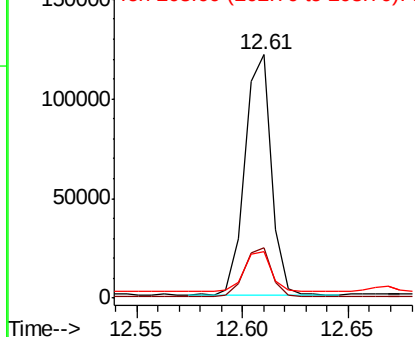


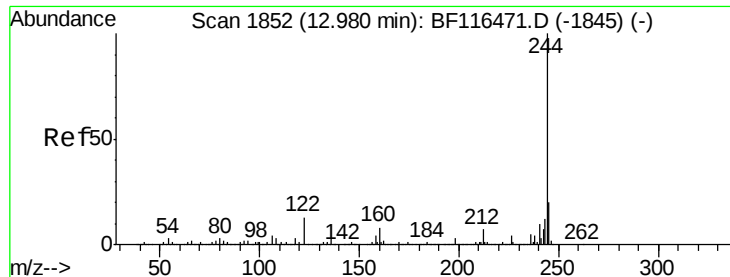
#78
Pyrene
Concen: 6.288 ng
RT: 12.61 min Scan# 1789
Delta R.T. -0.22 min
Lab File: BF116494.D
Acq: 23 Aug 2019 23:02

Tgt Ion:202 Resp: 104145
Ion Ratio Lower Upper
202 100
200 20.6 17.0 25.4
203 19.1 14.2 21.4



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: 49.614 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.00 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

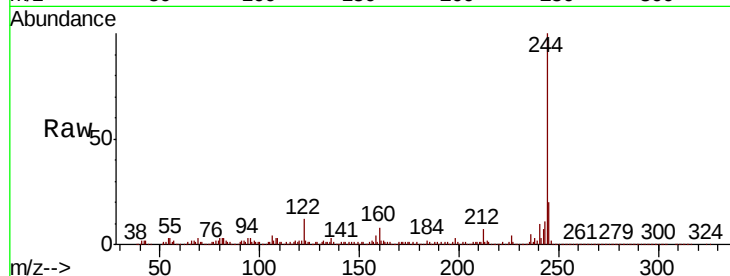
Tgt Ion:244 Resp: 550116

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

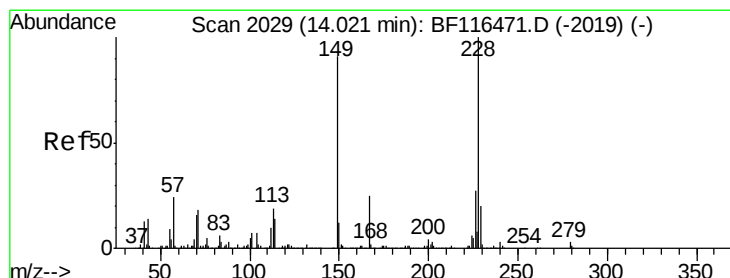
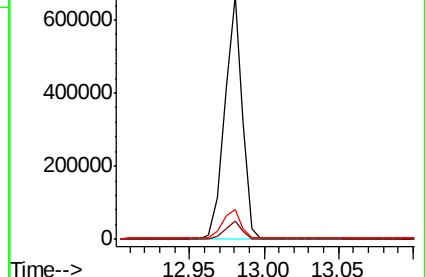
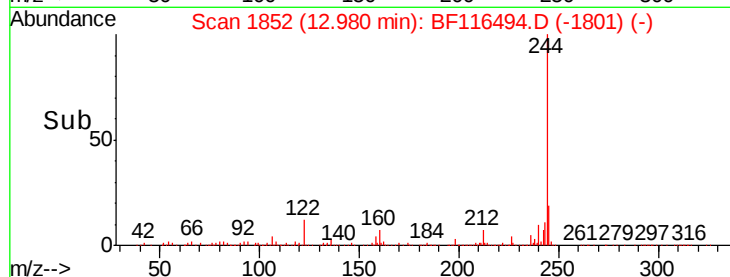
122 12.4 10.2 15.4



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: 4.269 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

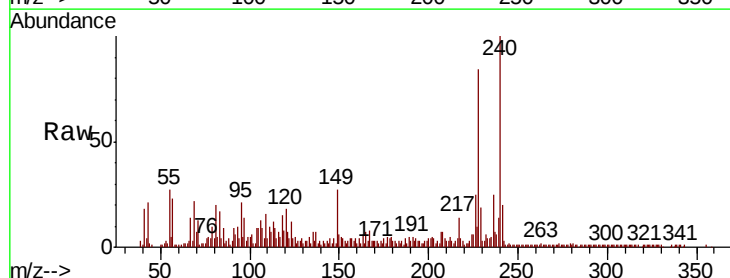
Tgt Ion:228 Resp: 57261

Ion Ratio Lower Upper

228 100

226 29.8 21.8 32.6

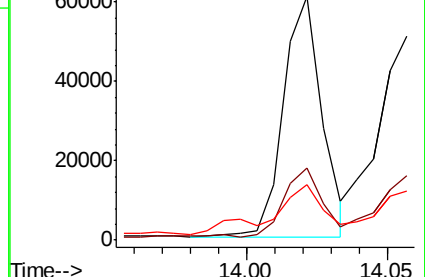
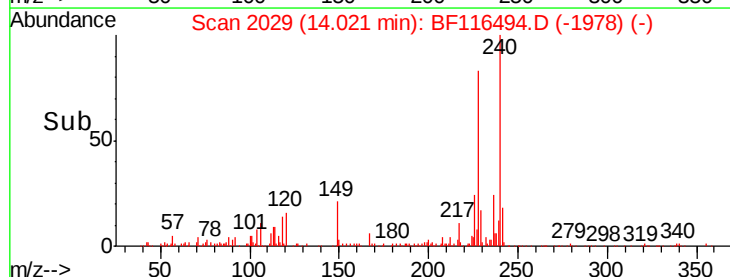
229 22.9 15.9 23.9

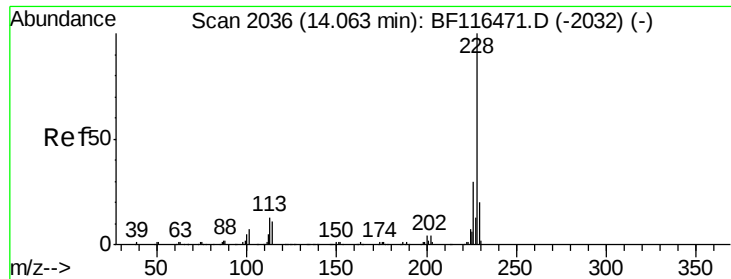


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 4.212 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.04 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

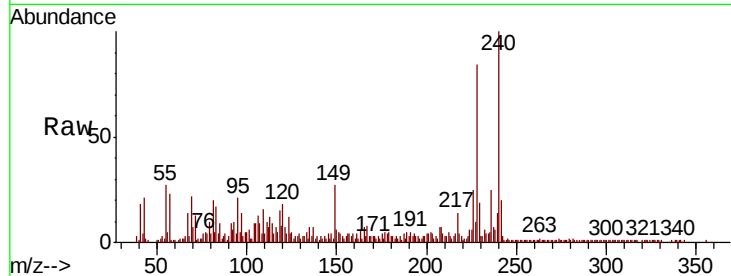
Tgt Ion:228 Resp: 57261

Ion Ratio Lower Upper

228 100

226 29.8 24.2 36.2

229 22.9 15.8 23.6

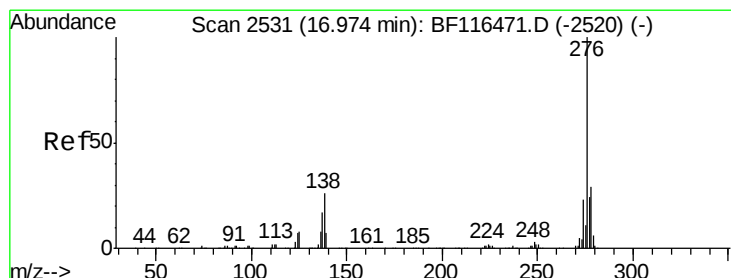
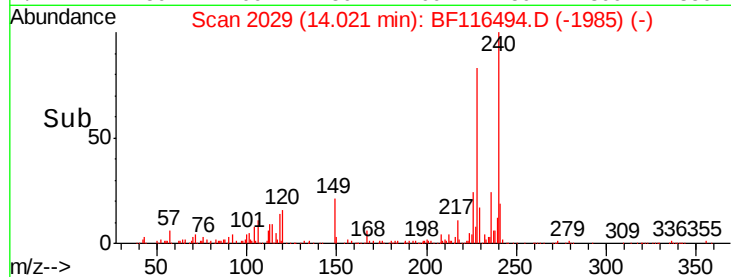
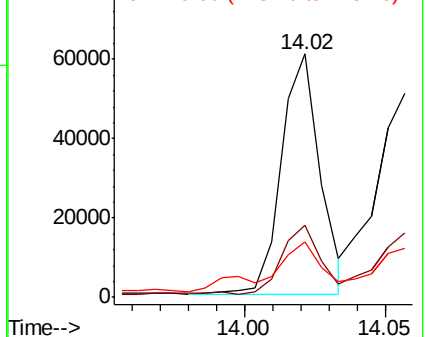


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.618 ng

RT: 16.95 min Scan# 2527

Delta R.T. -0.02 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

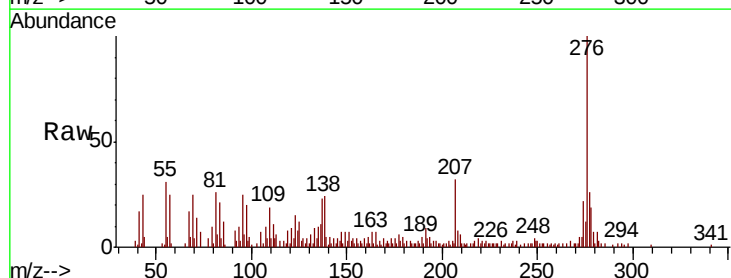
Tgt Ion:276 Resp: 42134

Ion Ratio Lower Upper

276 100

138 25.2 22.9 34.3

277 28.3 19.9 29.9

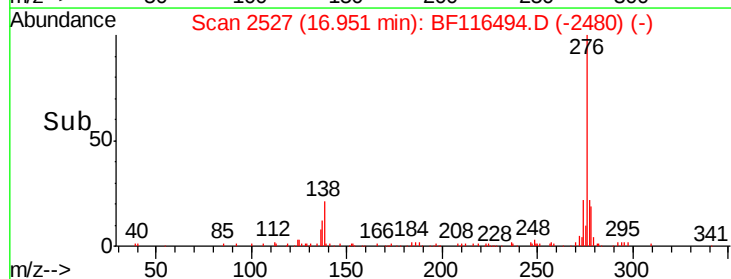
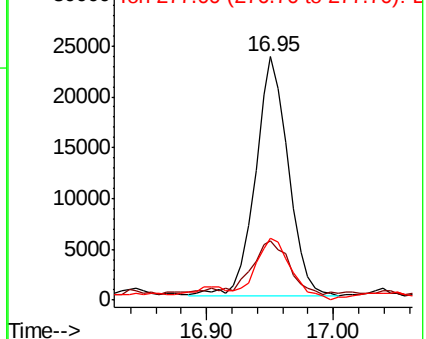


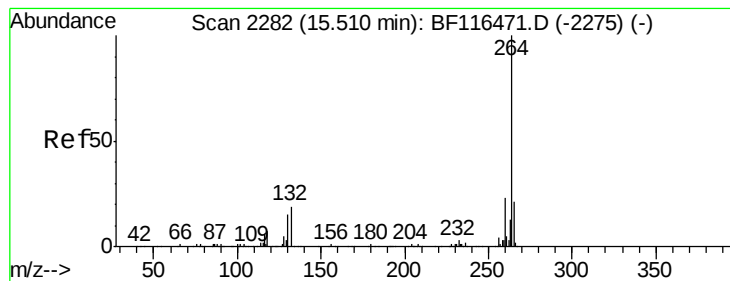
Abundance

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: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

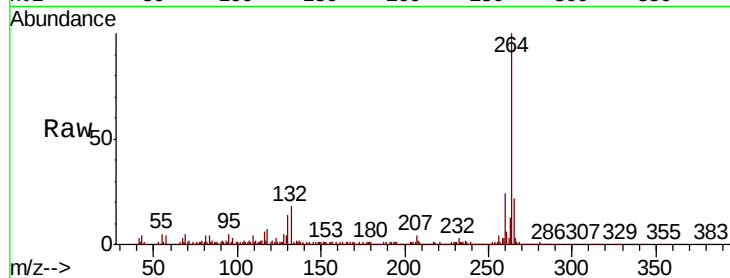
Tgt Ion:264 Resp: 261403

Ion Ratio Lower Upper

264 100

260 24.0 18.8 28.2

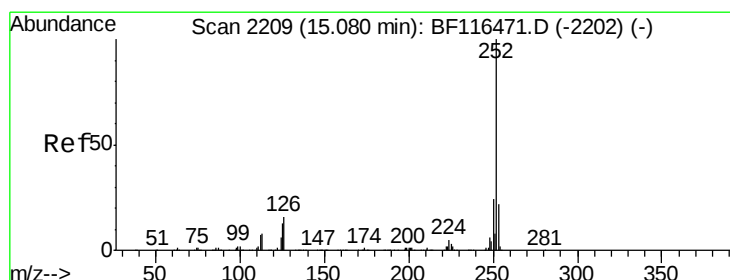
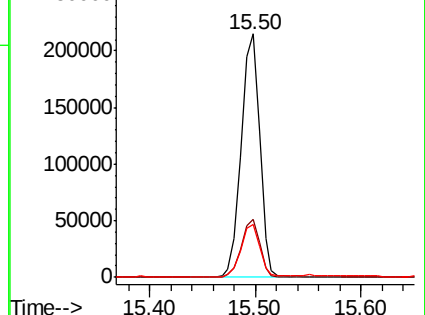
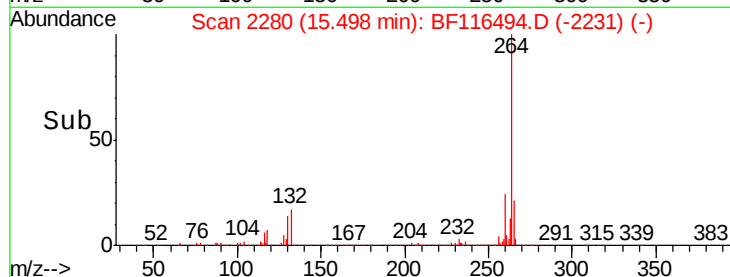
265 21.6 17.1 25.7



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: 6.735 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

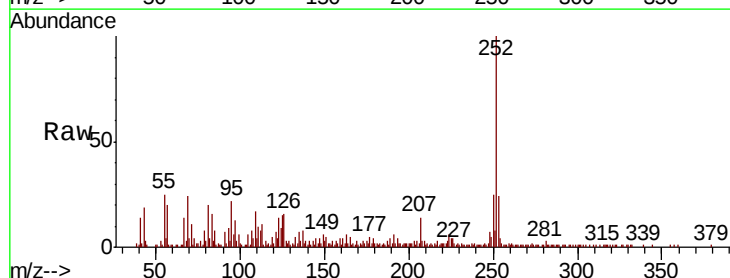
Tgt Ion:252 Resp: 108760

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

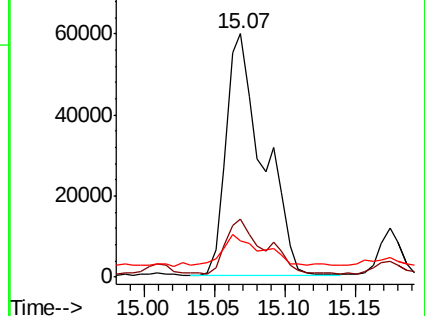
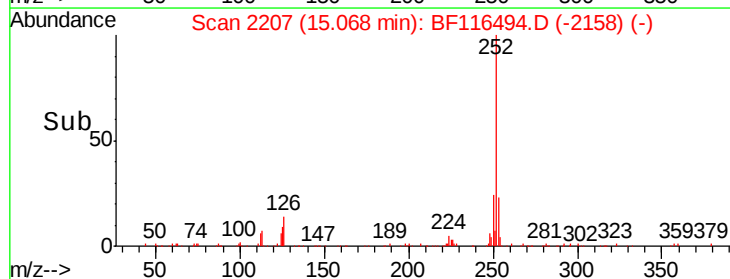
125 15.1 10.1 15.1

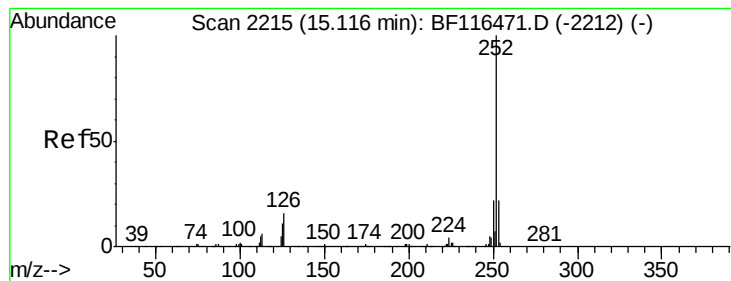


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 7.434 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.05 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

Instrument :

BNA_F

ClientSampleId :

T4-B1-B4-(0-2)

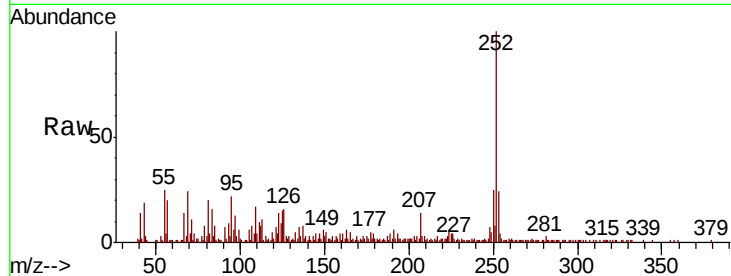
Tgt Ion:252 Resp: 108760

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.2

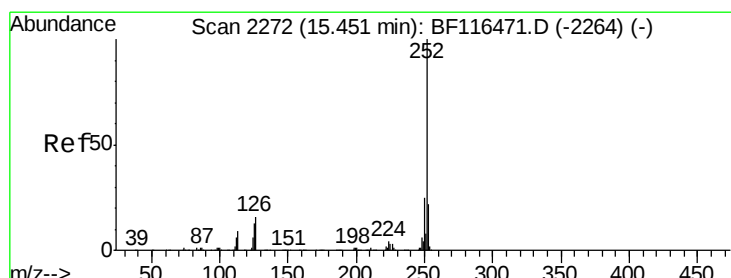
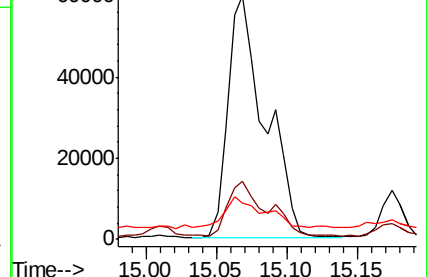
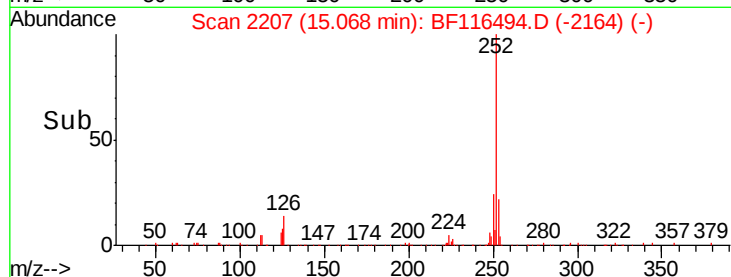
125 15.1 9.1 13.7#



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

Benzo(a)pyrene

Concen: 3.976 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.02 min

Lab File: BF116494.D

Acq: 23 Aug 2019 23:02

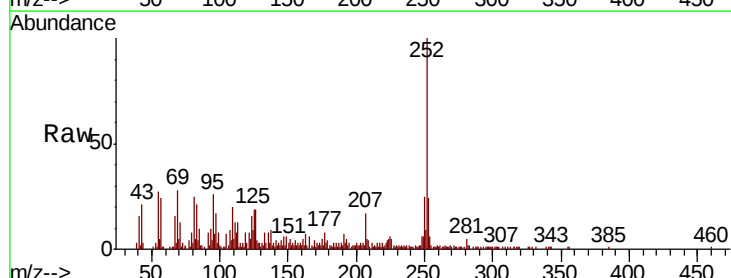
Tgt Ion:252 Resp: 56741

Ion Ratio Lower Upper

252 100

253 24.0 17.2 25.8

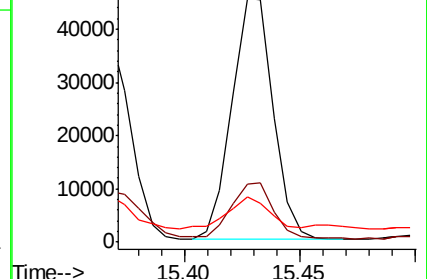
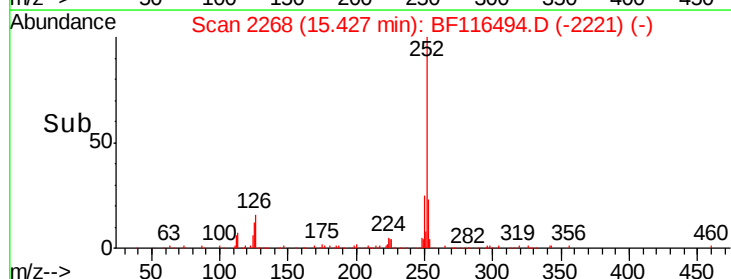
125 18.6 10.2 15.4#

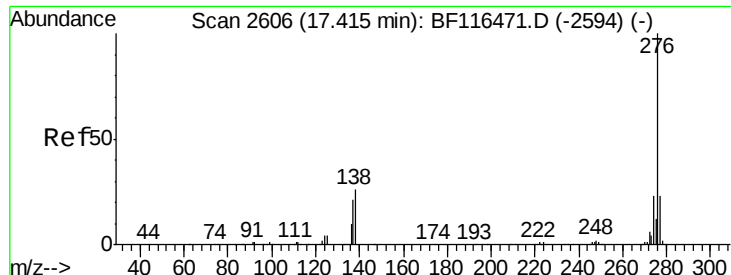


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

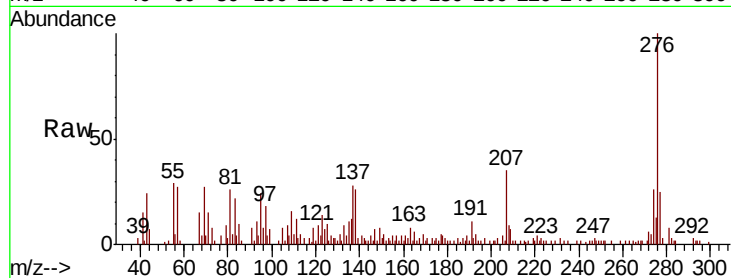




#92
 Benzo(g,h,i)perylene
 Concen: 3.816 ng
 RT: 17.39 min Scan# 2602
 Delta R.T. -0.02 min
 Lab File: BF116494.D
 Acq: 23 Aug 2019 23:02

Instrument :
 BNA_F
 ClientSampleId :
 T4-B1-B4-(0-2)

Tgt Ion:	276	Resp:	42660
Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.7	28.1
138	26.3	20.8	31.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

