

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032819\
 Data File : BF113396.D
 Acq On : 29 Mar 2019 3:14
 Operator : JU/SJ
 Sample : K2086-07DL 2X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-18DL

Quant Time: Mar 29 05:26:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	175037	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	682155	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	326541	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	616895	20.00	ng	0.00
76) Chrysene-d12	13.84	240	431883	20.00	ng	0.00
87) Perylene-d12	15.24	264	464908	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	566989	52.97	ng	0.00
7) Phenol-d6	6.35	99	740331	54.67	ng	-0.01
23) Nitrobenzene-d5	7.26	82	430275	37.44	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	215604	53.45	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	898175	32.14	ng	0.00
79) Terphenyl-d14	12.79	244	823585	42.03	ng	-0.01

Target Compounds

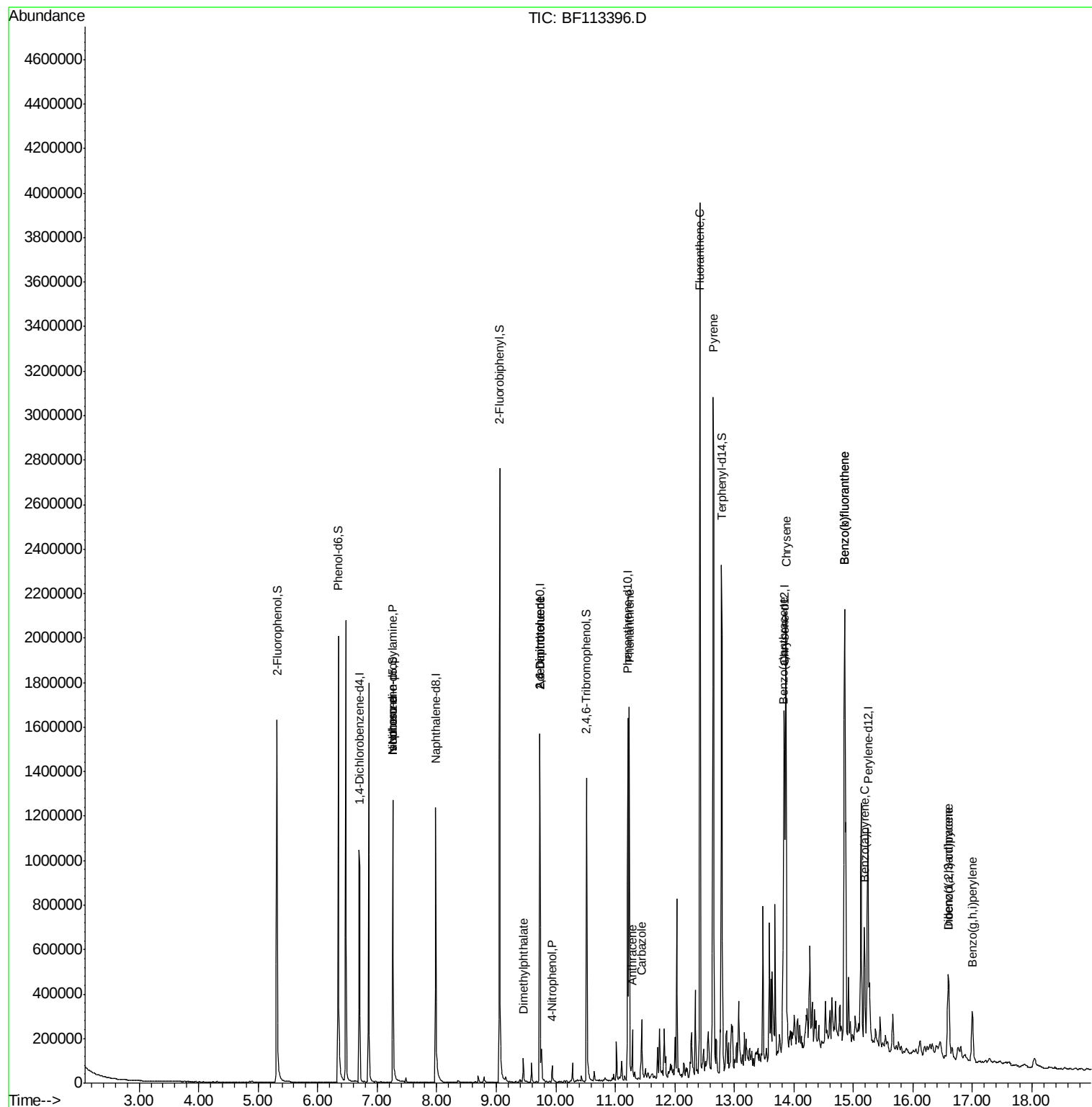
						Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	54303	6.384	ng	# 76
25) Isophorone	7.26	82	430271	19.318	ng	# 64
50) Dimethylphthalate	9.45	163	56765	2.346	ng	99
51) 2,6-Dinitrotoluene	9.73	165	43193	7.912	ng	# 26
56) 4-Nitrophenol	9.94	139	12460	2.839	ng	# 7
57) 2,4-Dinitrotoluene	9.73	165	43194	6.222	ng	# 23
71) Phenanthrene	11.23	178	607822	19.841	ng	99
72) Anthracene	11.29	178	89416	2.874	ng	97
73) Carbazole	11.45	167	125529	4.228	ng	98
75) Fluoranthene	12.42	202	1733947	50.067	ng	98
78) Pyrene	12.64	202	1374618	45.931	ng	99
81) Benzo(a)anthracene	13.83	228	262671	10.625	ng	95
83) Chrysene	13.87	228	927537	36.938	ng	99
86) Indeno(1,2,3-cd)pyrene	16.59	276	217834	10.108	ng	98
88) Benzo(b)fluoranthene	14.85	252	1359709	47.081	ng	99
89) Benzo(k)fluoranthene	14.85	252	1359709	53.612	ng	98
90) Benzo(a)pyrene	15.19	252	231588	9.045	ng	97
91) Dibenzo(a,h)anthracene	16.60	278	48528	2.192	ng	# 80
92) Benzo(g,h,i)perylene	17.00	276	181028	8.110	ng	98

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

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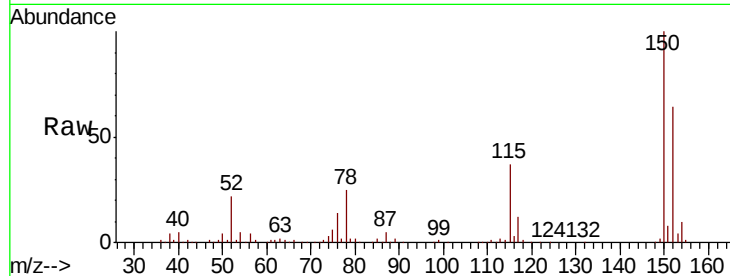


#1

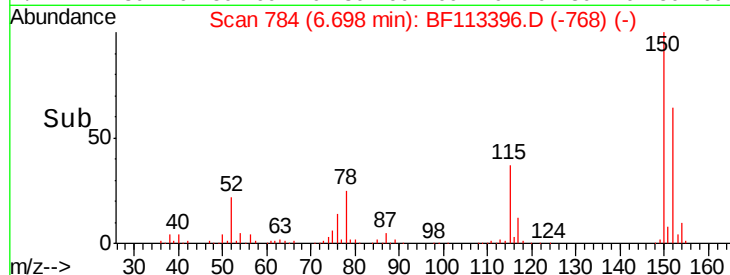
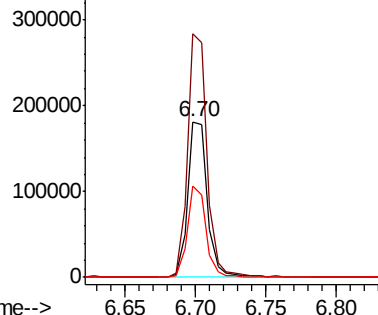
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Instrument :
BNA_F
ClientSampleId :
CS-18DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.7	187.1
115	58.3	46.0	69.0



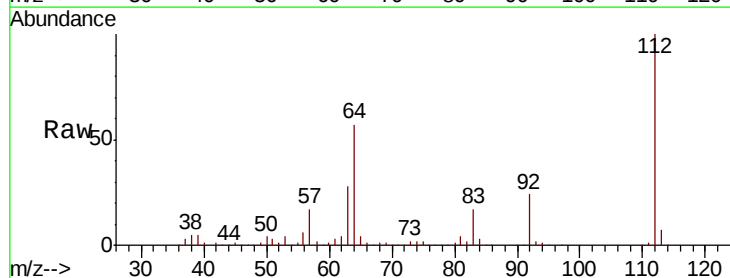
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



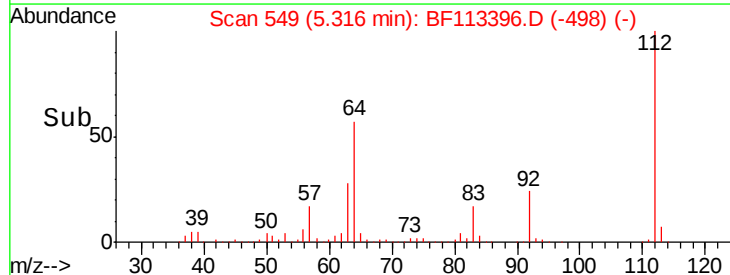
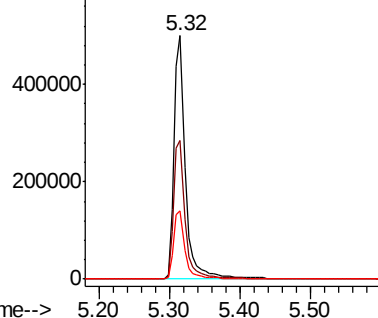
#5

2-Fluorophenol
Concen: 52.966 ng
RT: 5.32 min Scan# 549
Delta R.T. 0.00 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	49.2	73.8
63	28.0	24.9	37.3



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: 54.668 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

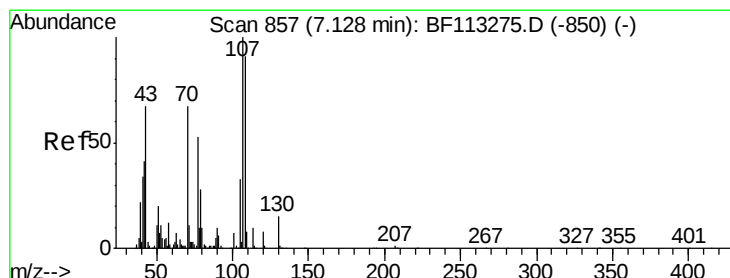
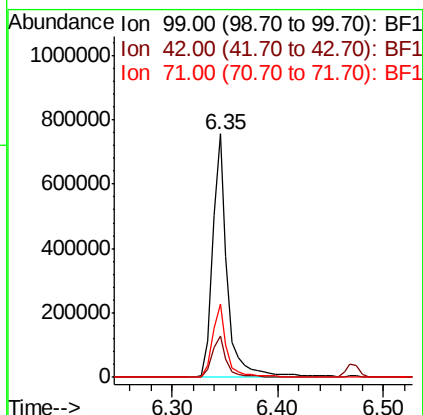
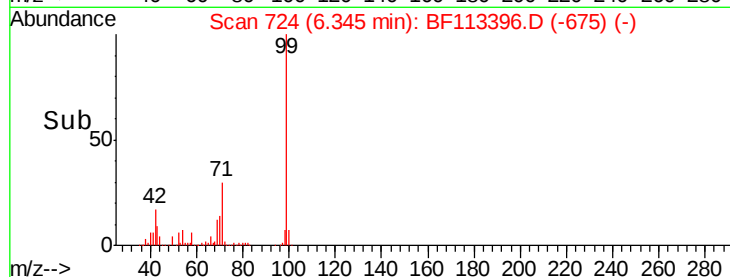
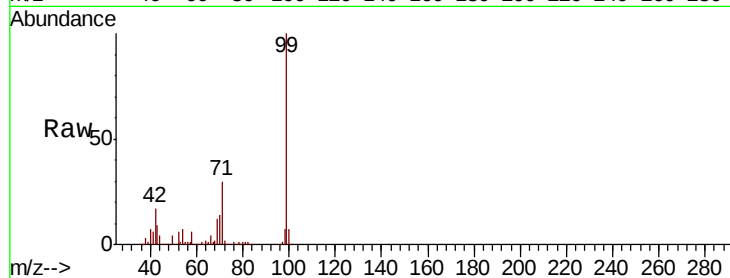
Tgt Ion: 99 Resp: 740331

Ion Ratio Lower Upper

99 100

42 16.9 14.8 22.2

71 30.1 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 6.384 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.14 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Tgt Ion: 70 Resp: 54303

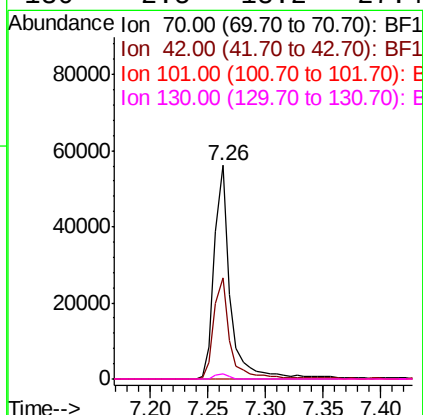
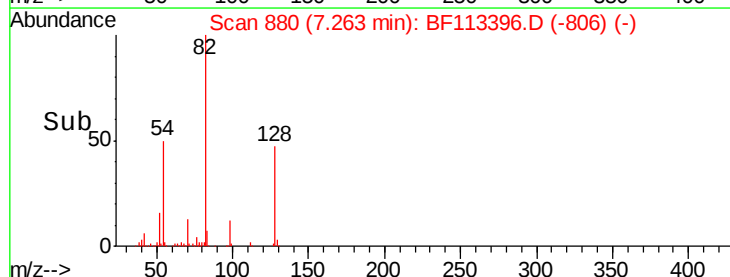
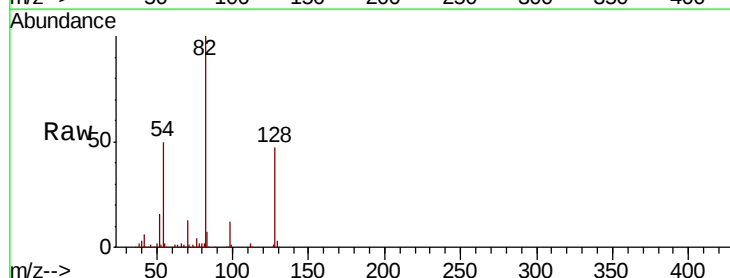
Ion Ratio Lower Upper

70 100

42 47.3 48.4 72.6#

101 0.0 7.8 11.8#

130 2.5 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

Tgt Ion: 136 Resp: 682155

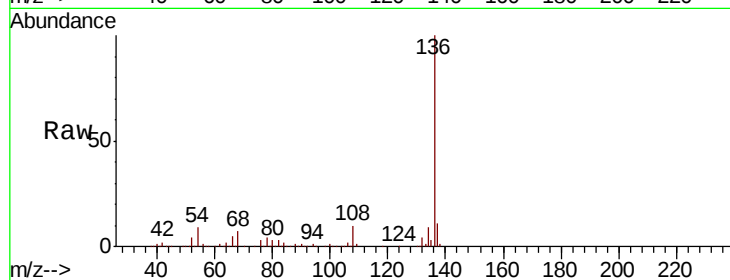
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 8.5 7.0 10.6

68 6.5 4.8 7.2

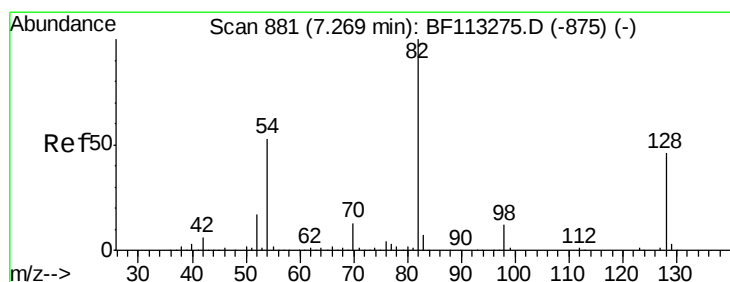
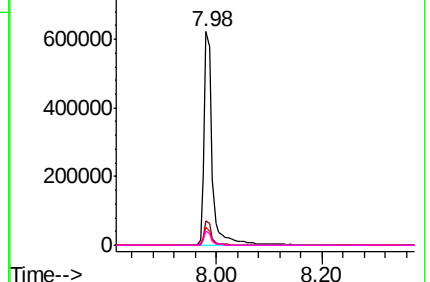
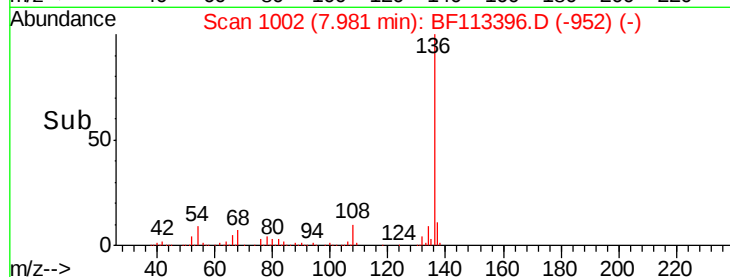


Abundance Ion 136.00 (135.70 to 136.70): E

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: 37.438 ng

RT: 7.26 min Scan# 880

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

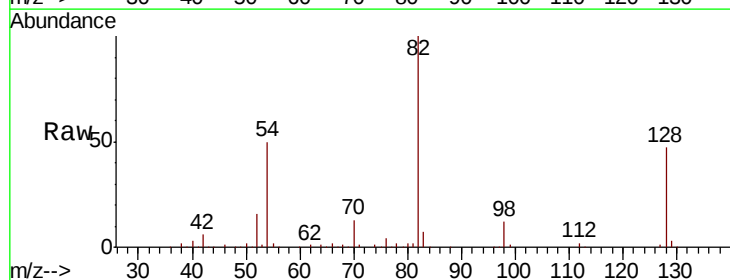
Tgt Ion: 82 Resp: 430275

Ion Ratio Lower Upper

82 100

128 47.1 36.5 54.7

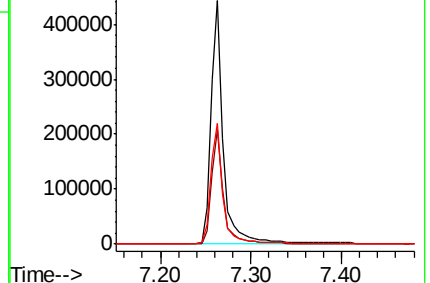
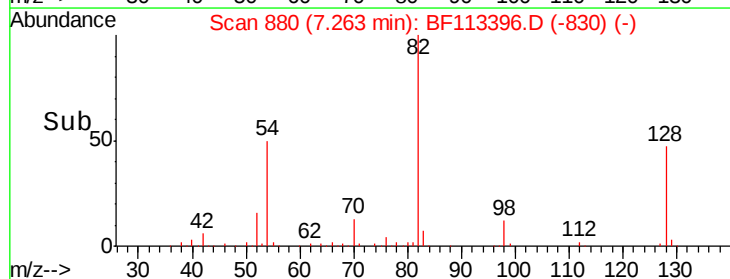
54 49.8 42.2 63.2

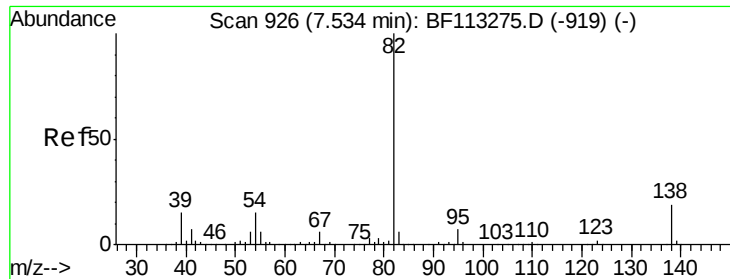


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

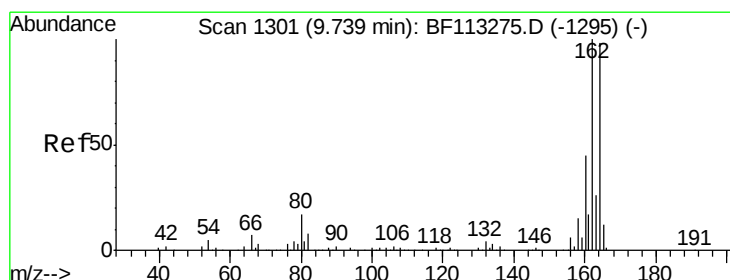
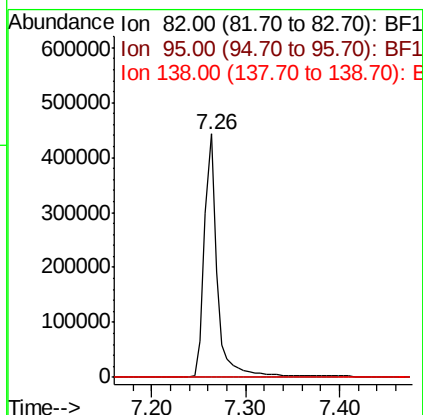
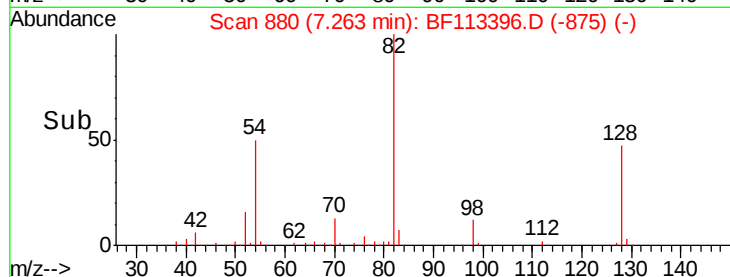
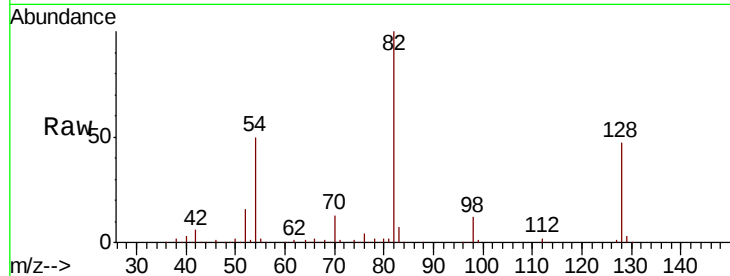




#25
Isophorone
Concen: 19.318 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.27 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

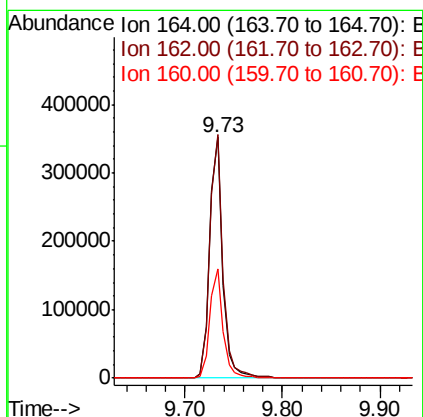
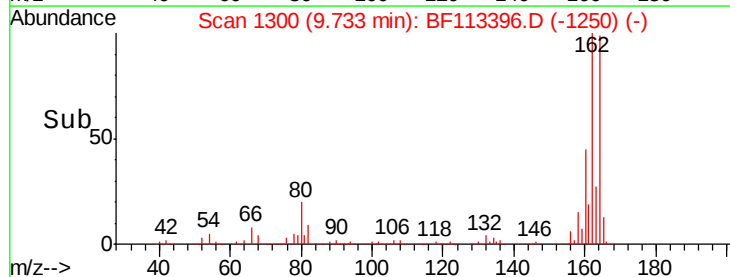
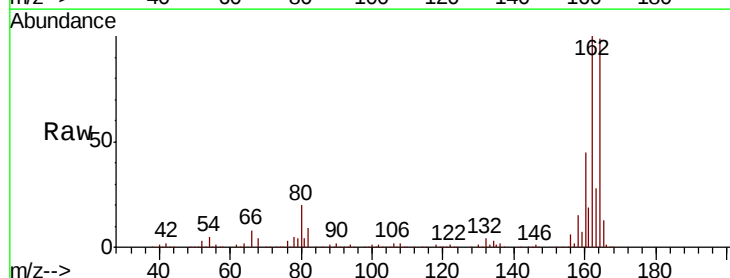
Instrument :
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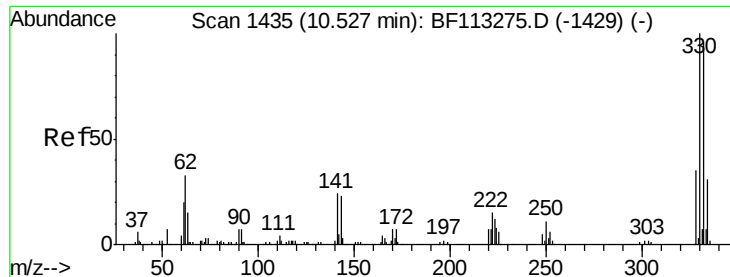
Tgt Ion: 82 Resp: 430271
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 15.2 22.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Tgt Ion: 164 Resp: 326541
Ion Ratio Lower Upper
164 100
162 101.1 81.8 122.6
160 45.3 36.4 54.6

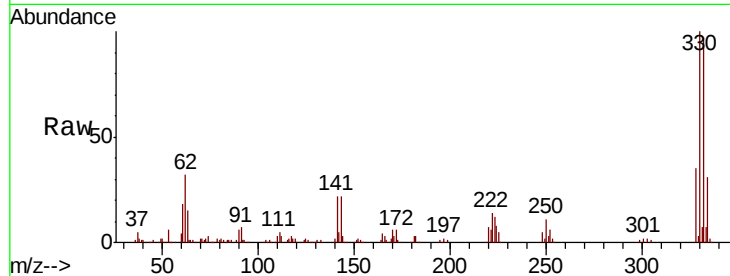




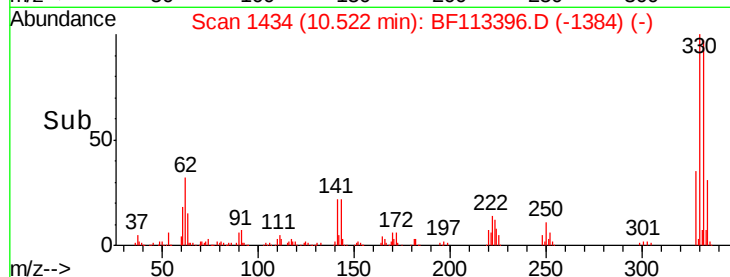
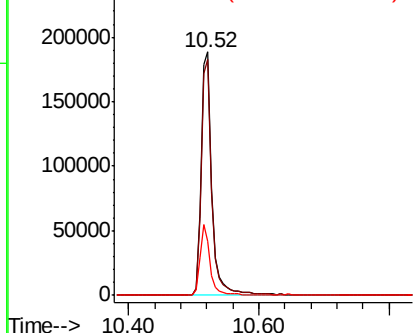
#42
 2,4,6-Tribromophenol
 Concen: 53.453 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113396.D
 Acq: 29 Mar 2019 3:14

Instrument :
 BNA_F
 ClientSampleId :
 CS-18DL

Tgt Ion:330 Resp: 215604
 Ion Ratio Lower Upper
 330 100
 332 95.2 77.8 116.6
 141 27.2 22.7 34.1

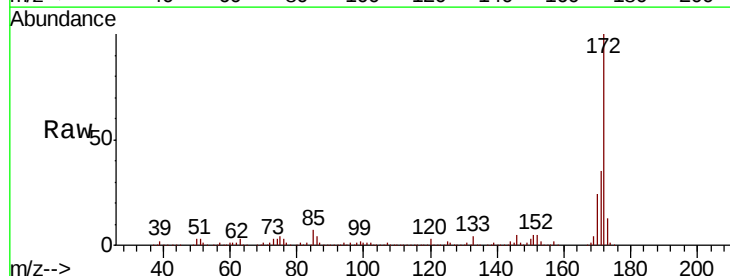


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

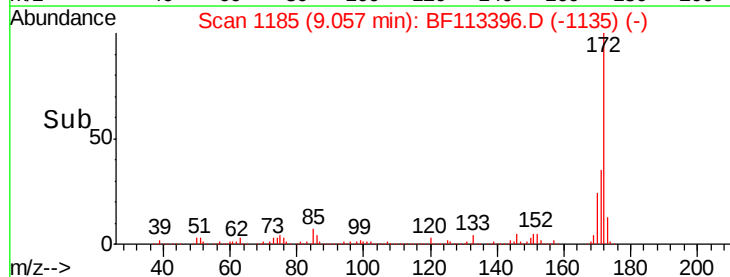
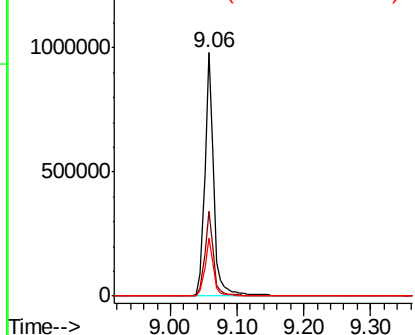


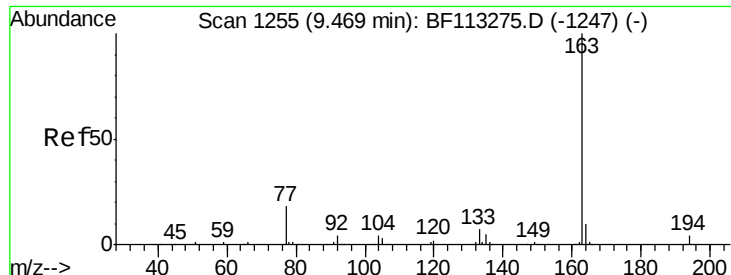
#45
 2-Fluorobiphenyl
 Concen: 32.144 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF113396.D
 Acq: 29 Mar 2019 3:14

Tgt Ion:172 Resp: 898175
 Ion Ratio Lower Upper
 172 100
 171 34.9 29.0 43.6
 170 23.8 19.5 29.3



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

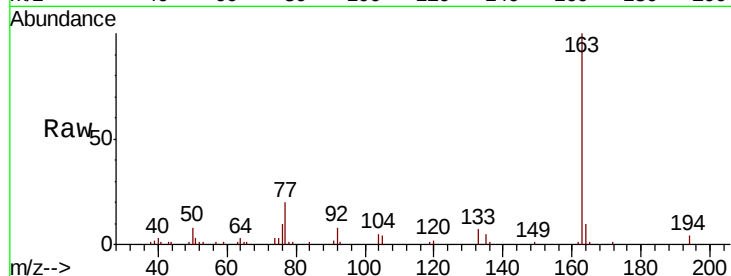




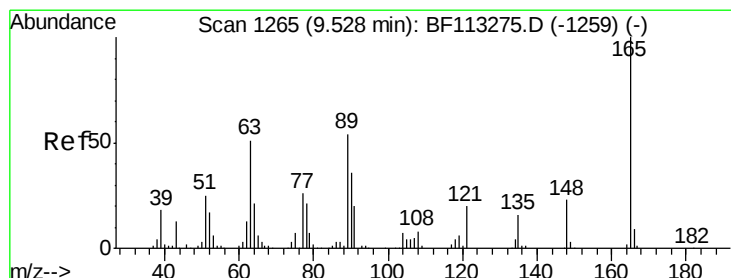
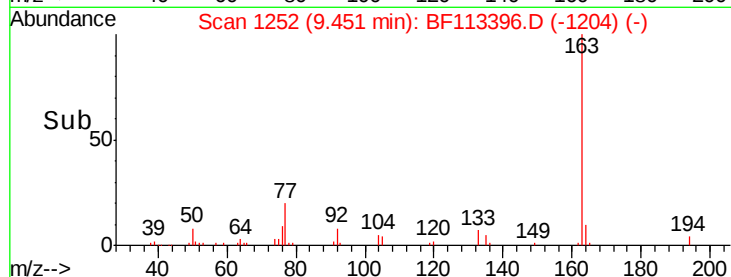
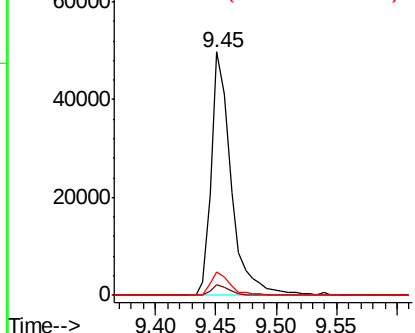
#50
Dimethylphthalate
Concen: 2.346 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Instrument :
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ClientSampleId :
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Tgt Ion:163 Resp: 56765
Ion Ratio Lower Upper
163 100
194 4.3 3.0 4.6
164 9.8 8.1 12.1

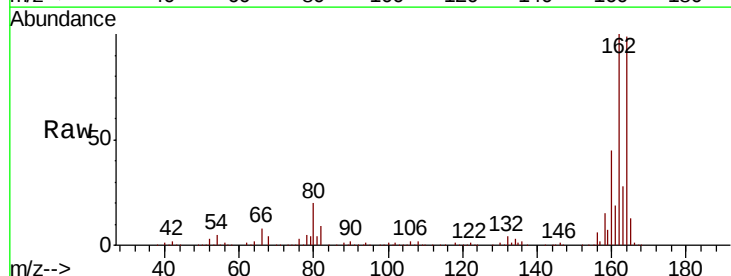


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

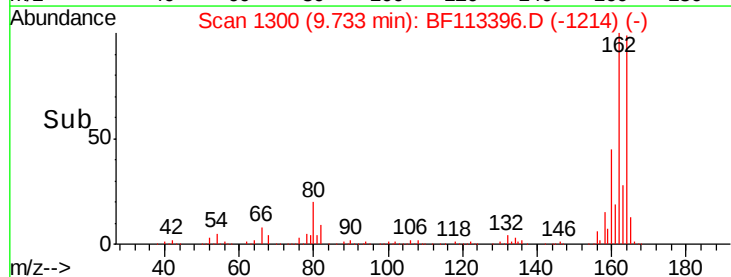
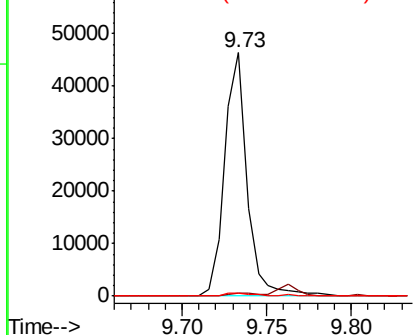


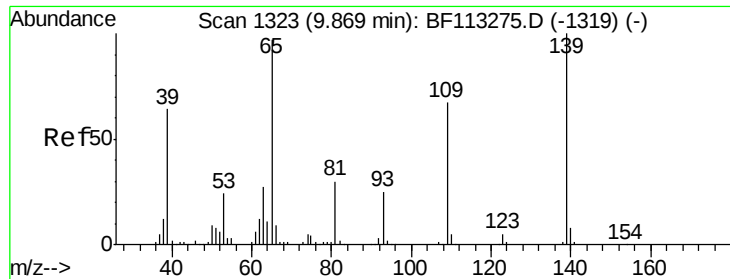
#51
2,6-Dinitrotoluene
Concen: 7.912 ng
RT: 9.73 min Scan# 1300
Delta R.T. 0.21 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Tgt Ion:165 Resp: 43193
Ion Ratio Lower Upper
165 100
63 1.4 43.4 65.0#
89 1.1 43.1 64.7#



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

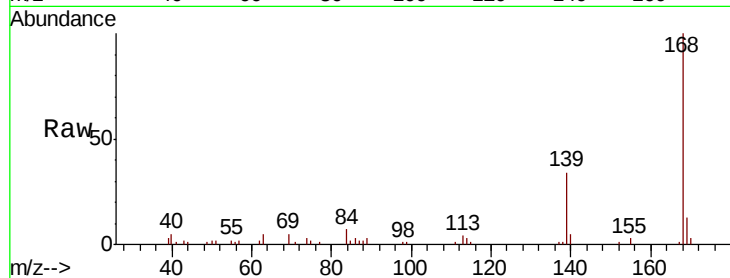




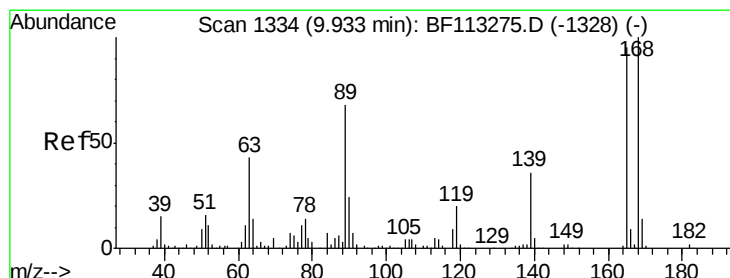
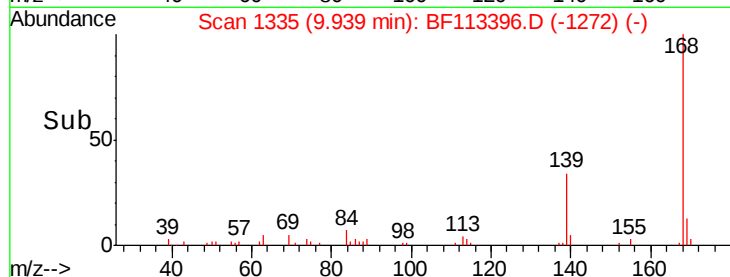
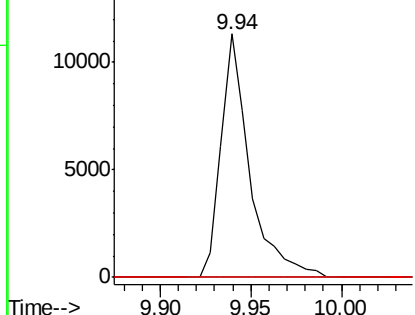
#56
4-Nitrophenol
Concen: 2.839 ng
RT: 9.94 min Scan# 1335
Delta R.T. 0.07 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Instrument :
BNA_F
ClientSampleId :
CS-18DL

Tgt Ion:139 Resp: 12460
Ion Ratio Lower Upper
139 100
109 0.0 46.9 86.9#
65 0.0 77.2 117.2#

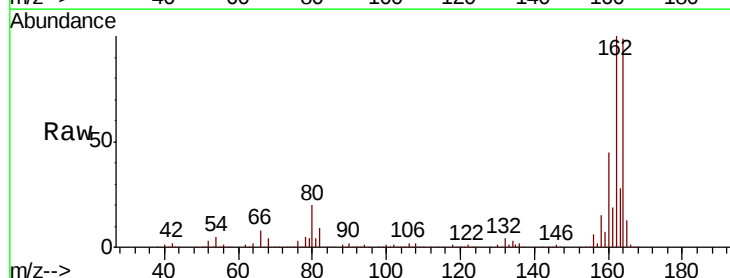


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

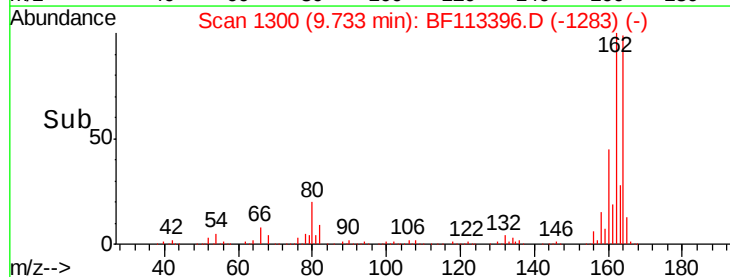
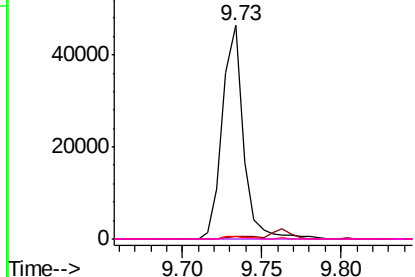


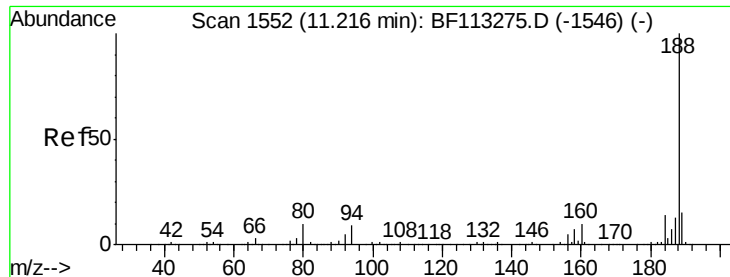
#57
2,4-Dinitrotoluene
Concen: 6.222 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.20 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Tgt Ion:165 Resp: 43194
Ion Ratio Lower Upper
165 100
63 1.4 37.5 56.3#
89 1.1 57.4 86.2#
182 0.0 2.0 3.0#



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

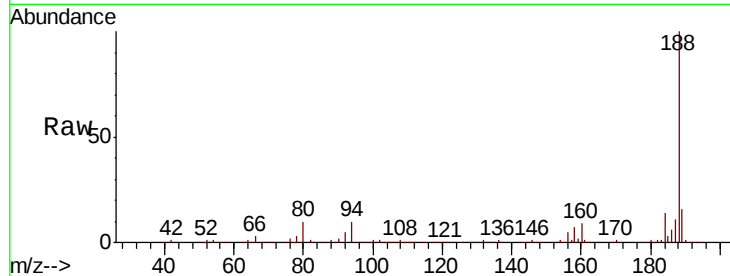




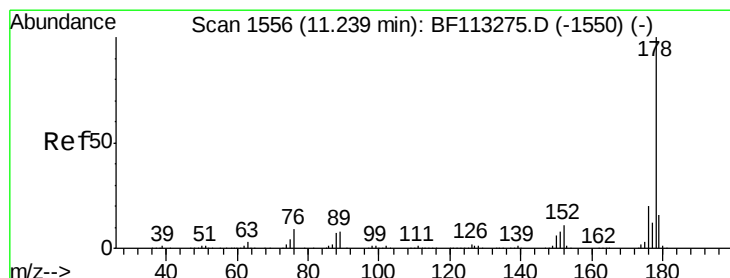
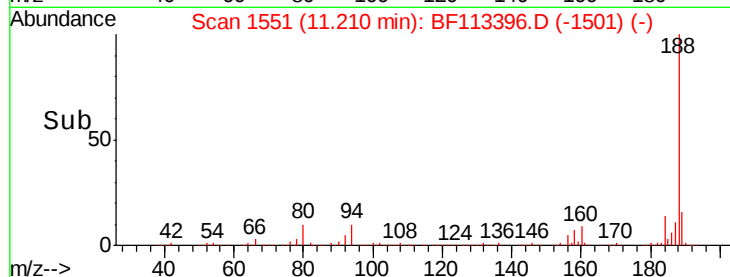
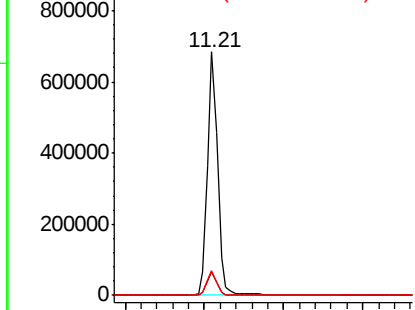
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Instrument :
BNA_F
ClientSampleId :
CS-18DL

Tgt Ion:188 Resp: 616895
Ion Ratio Lower Upper
188 100
94 9.8 7.0 10.6
80 10.2 7.7 11.5

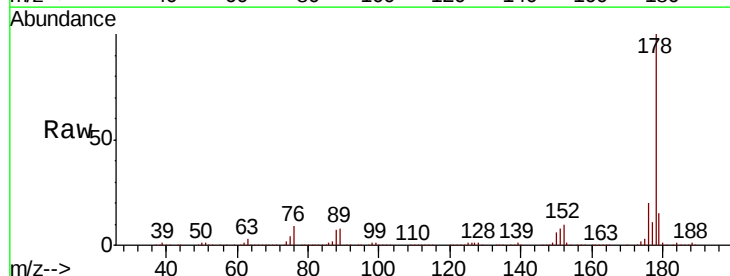


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

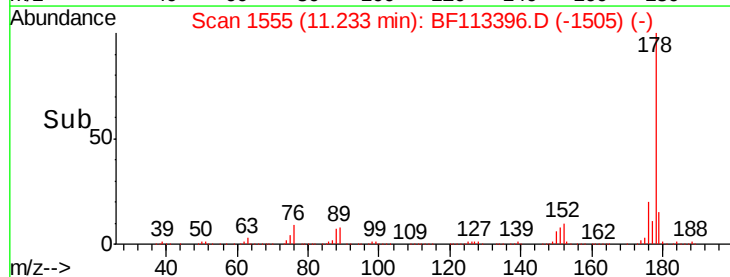
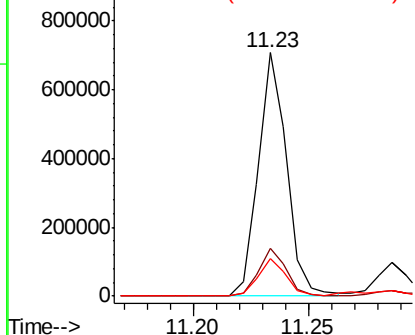


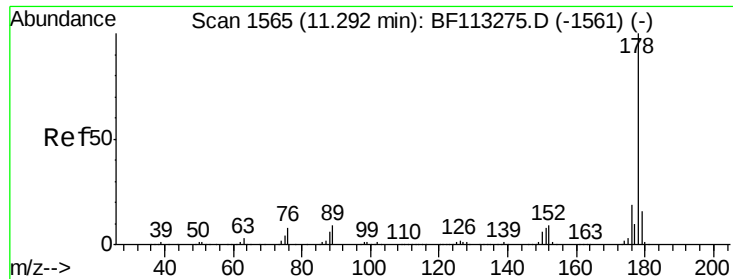
#71
Phenanthrene
Concen: 19.841 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Tgt Ion:178 Resp: 607822
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.2
179 15.5 12.7 19.1



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

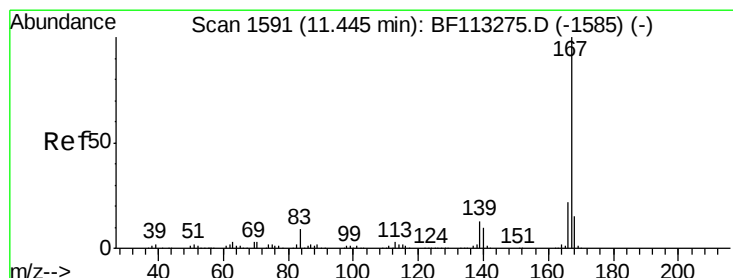
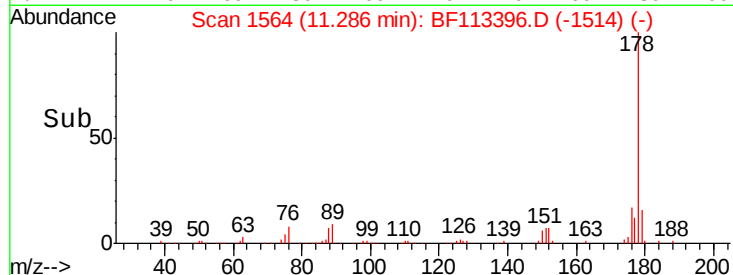
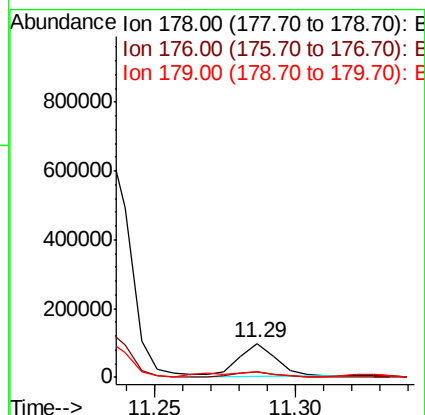
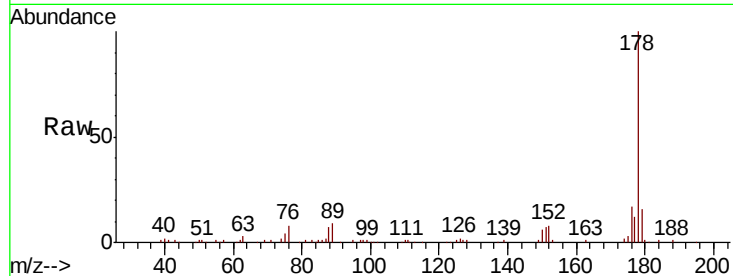




#72
 Anthracene
 Concen: 2.874 ng
 RT: 11.29 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: BF113396.D
 Acq: 29 Mar 2019 3:14

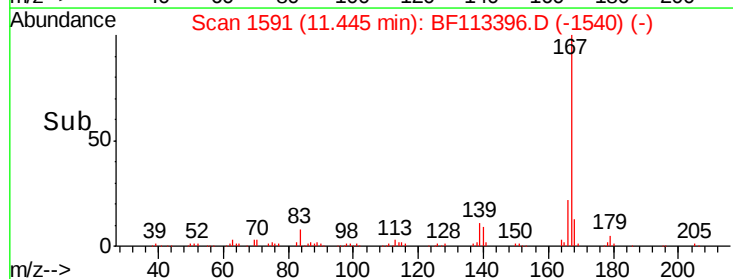
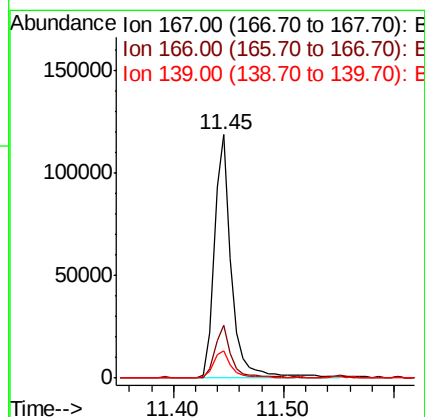
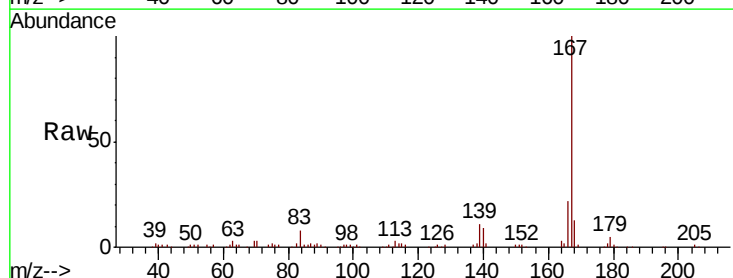
Instrument :
 BNA_F
 ClientSampleId :
 CS-18DL

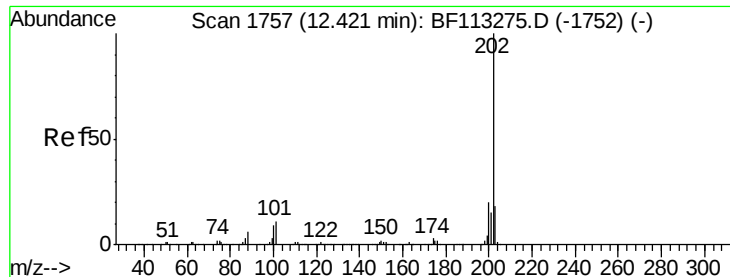
Tgt Ion:178 Resp: 89416
 Ion Ratio Lower Upper
 178 100
 176 17.2 15.4 23.2
 179 16.1 12.8 19.2



#73
 Carbazole
 Concen: 4.228 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BF113396.D
 Acq: 29 Mar 2019 3:14

Tgt Ion:167 Resp: 125529
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.4 26.0
 139 11.2 10.4 15.6





#75

Fluoranthene

Concen: 50.067 ng

RT: 12.42 min Scan# 1757

Delta R.T. 0.00 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

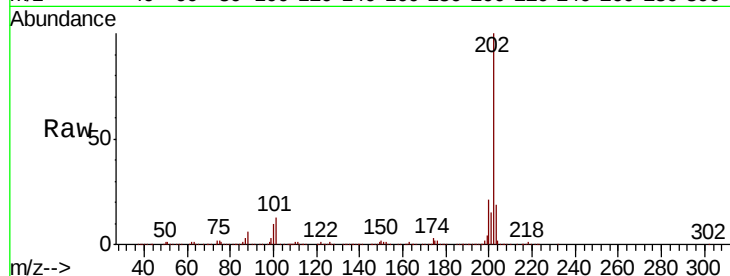
Tgt Ion:202 Resp: 1733947

Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.4

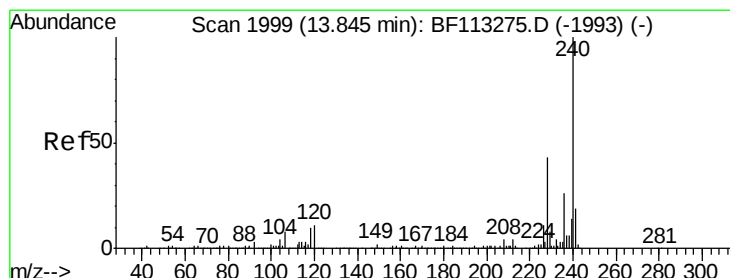
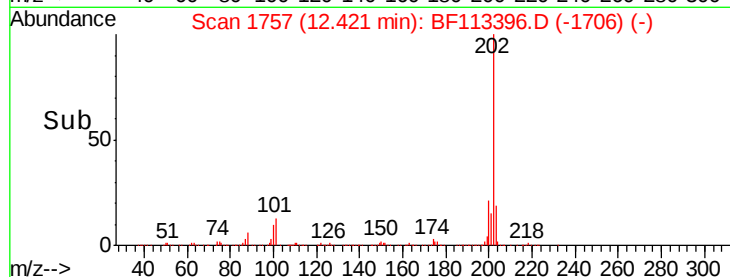
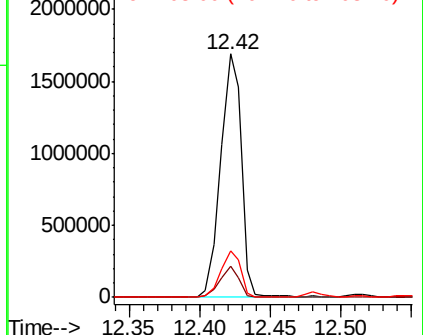
203 18.9 0.0 38.0



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: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

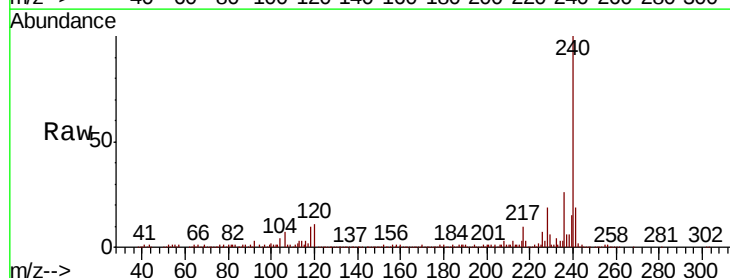
Tgt Ion:240 Resp: 431883

Ion Ratio Lower Upper

240 100

120 11.2 8.8 13.2

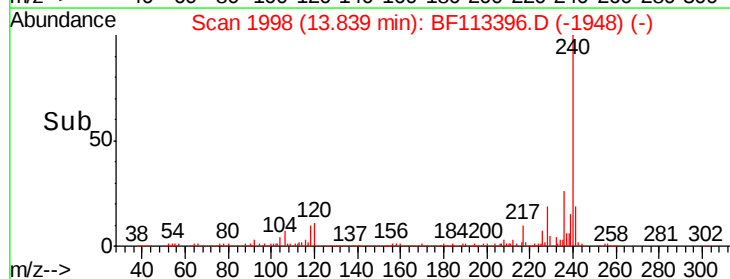
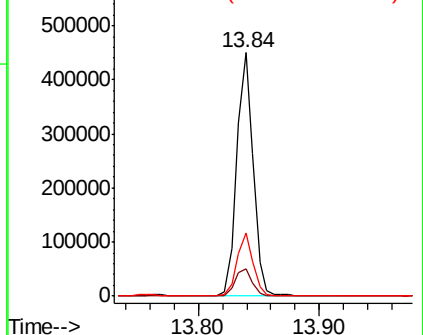
236 25.8 20.9 31.3

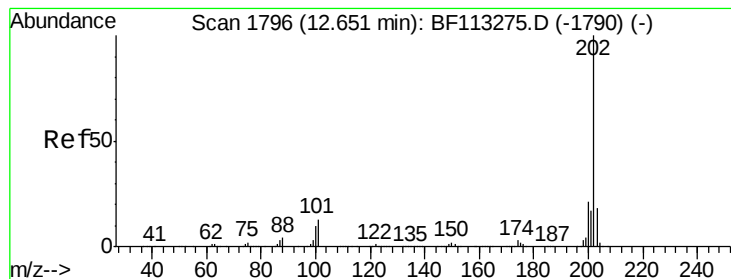


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 45.931 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

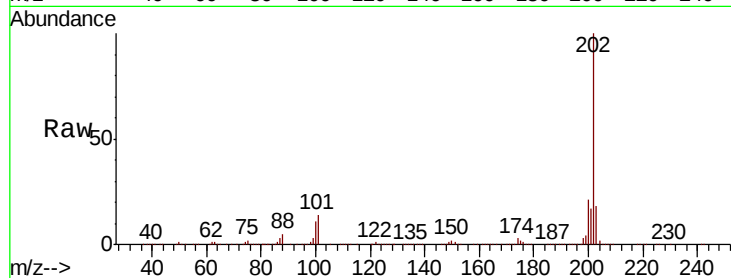
Tgt Ion: 202 Resp: 1374618

Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

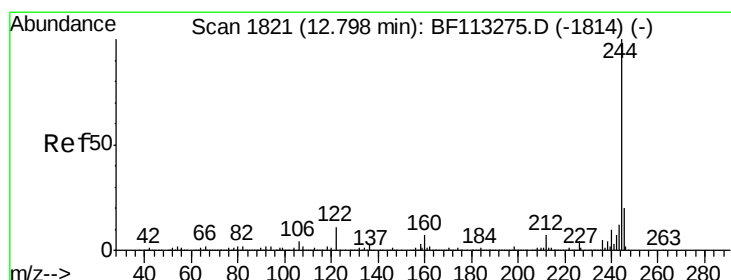
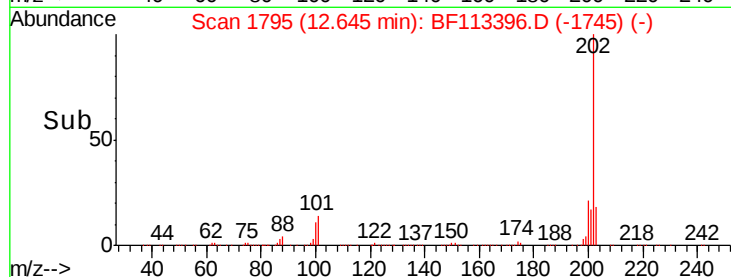
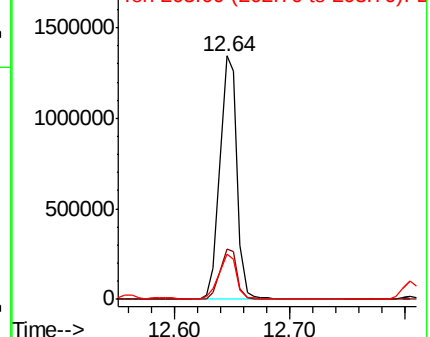
203 18.5 14.4 21.6



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: 42.033 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

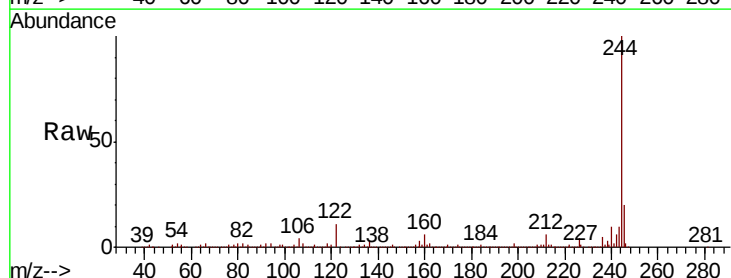
Tgt Ion: 244 Resp: 823585

Ion Ratio Lower Upper

244 100

212 6.2 5.5 8.3

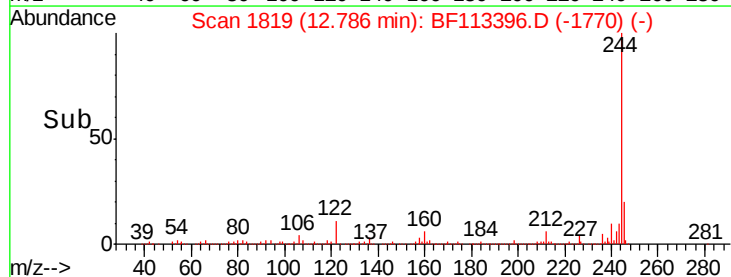
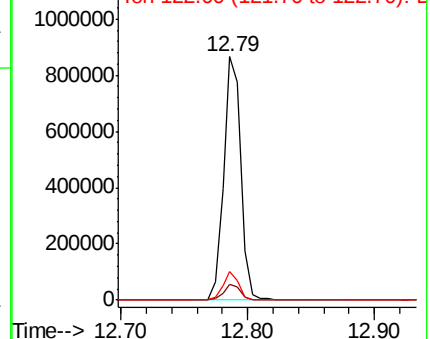
122 11.5 8.6 13.0

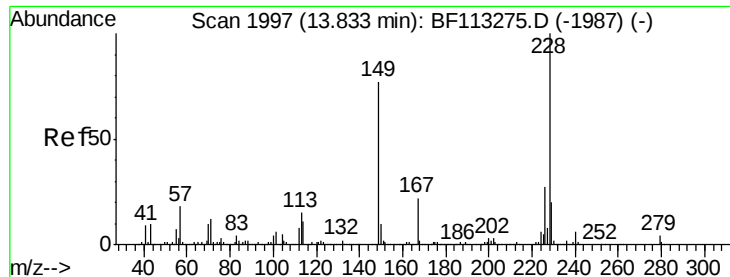


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 10.625 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

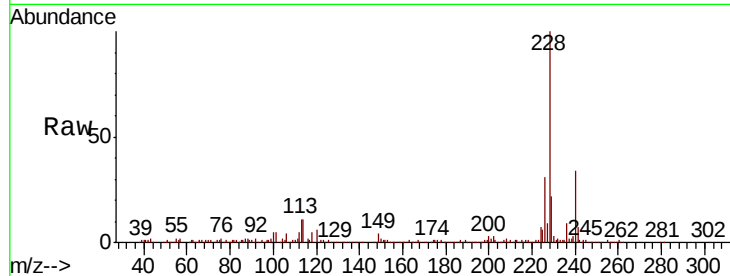
Instrument :

BNA_F

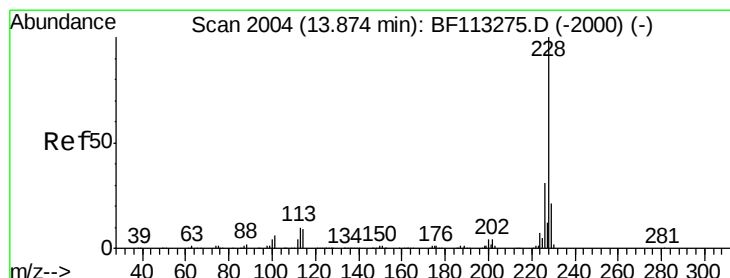
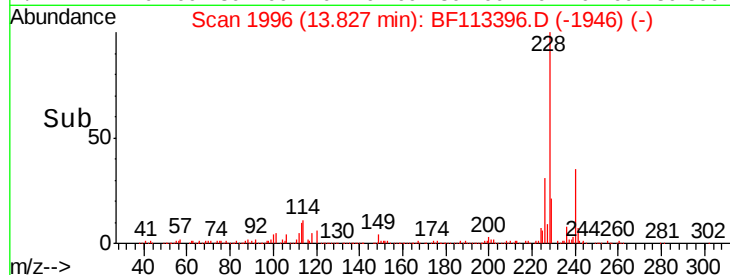
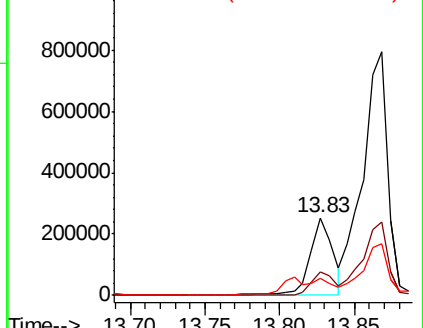
ClientSampleId :

CS-18DL

Tgt Ion:	228	Resp:	262671
Ion	Ratio	Lower	Upper
228	100		
226	31.0	21.8	32.8
229	21.7	16.2	24.4



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: 36.938 ng

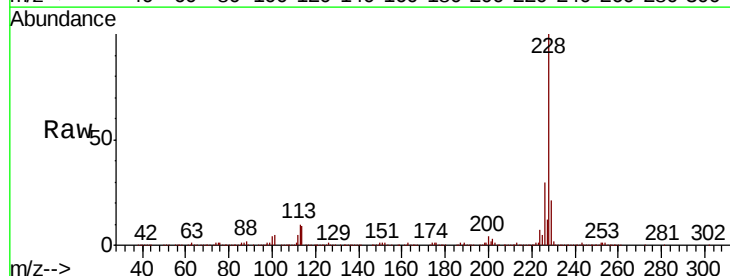
RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

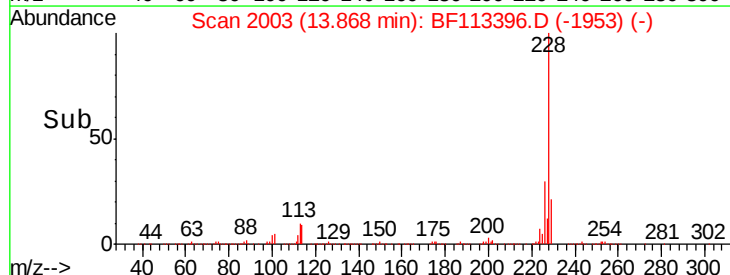
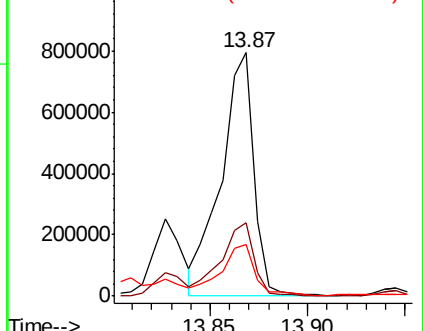
Lab File: BF113396.D

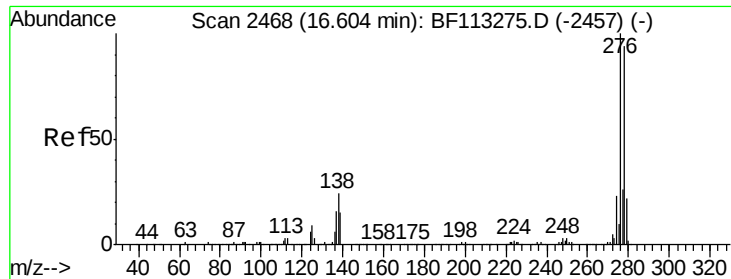
Acq: 29 Mar 2019 3:14

Tgt Ion:	228	Resp:	927537
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.3	36.5
229	21.4	16.3	24.5



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: 10.108 ng

RT: 16.59 min Scan# 2466

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

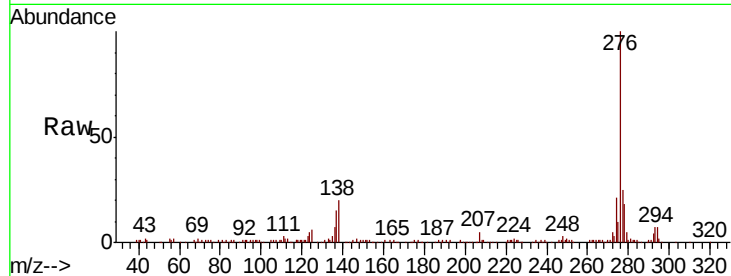
Tgt Ion:276 Resp: 217834

Ion Ratio Lower Upper

276 100

138 21.3 18.1 27.1

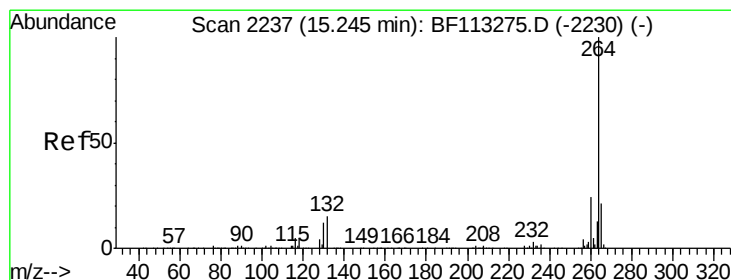
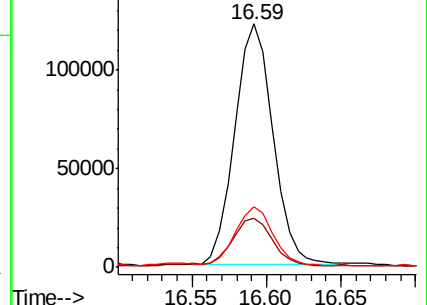
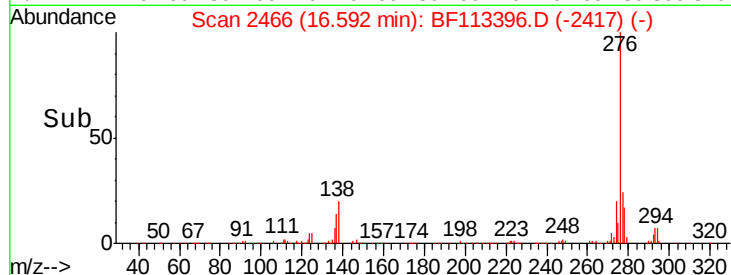
277 24.3 20.2 30.4



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: 15.24 min Scan# 2237

Delta R.T. 0.00 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

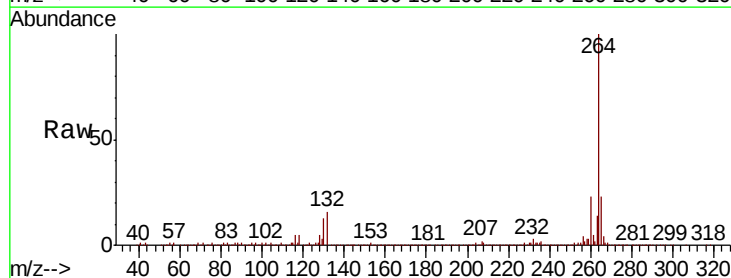
Tgt Ion:264 Resp: 464908

Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

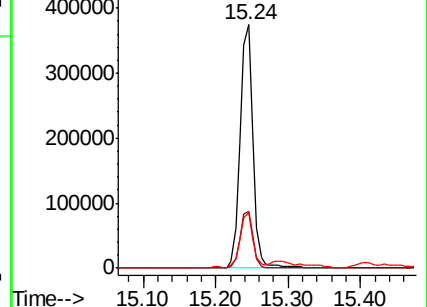
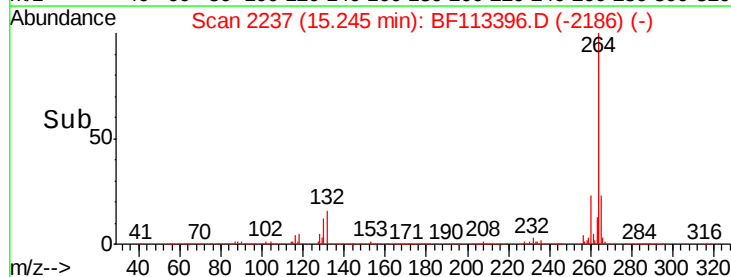
265 22.7 17.1 25.7

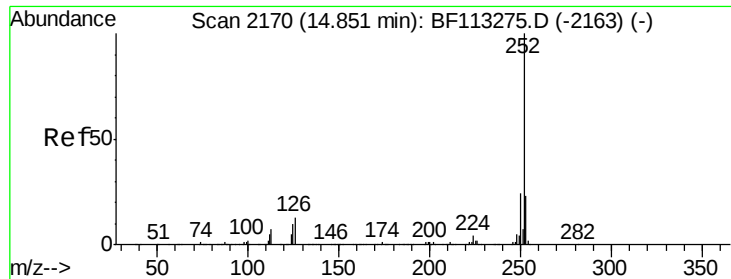


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

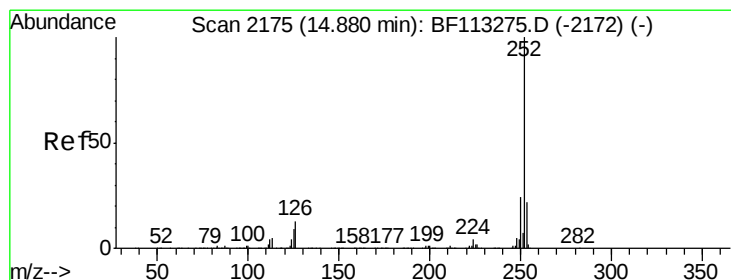
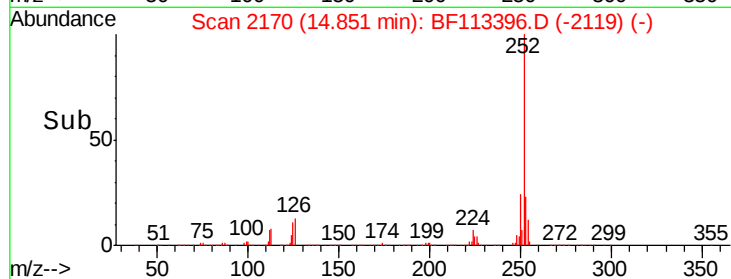
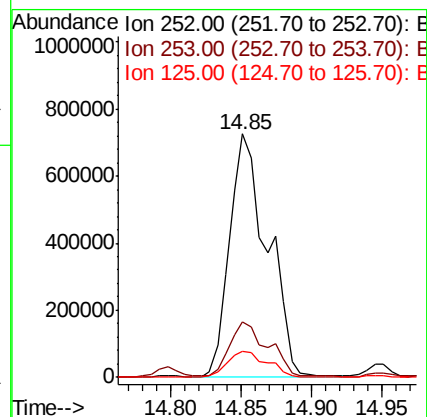
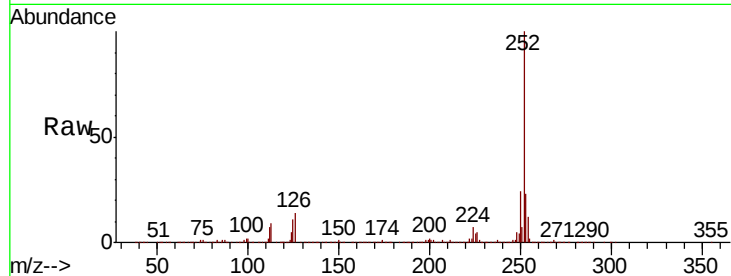




#88
Benzo(b)fluoranthene
Concen: 47.081 ng
RT: 14.85 min Scan# 2170
Delta R.T. 0.00 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

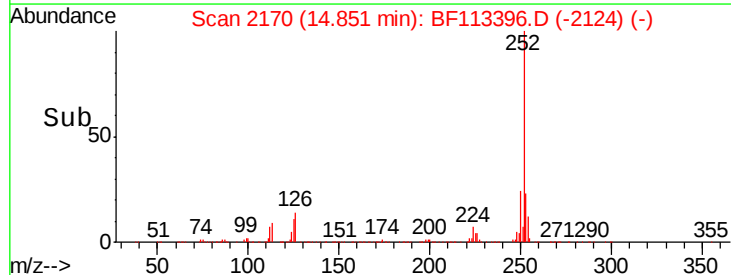
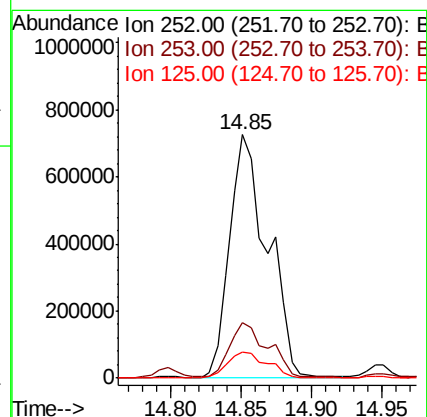
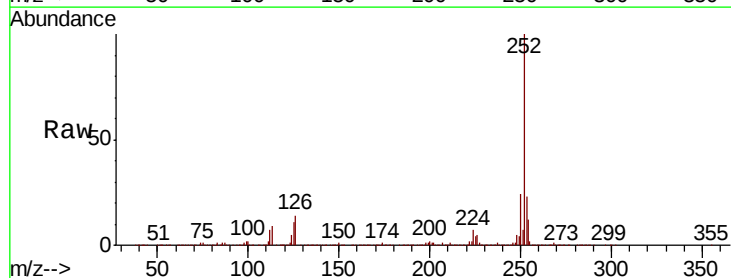
Instrument :
BNA_F
ClientSampleId :
CS-18DL

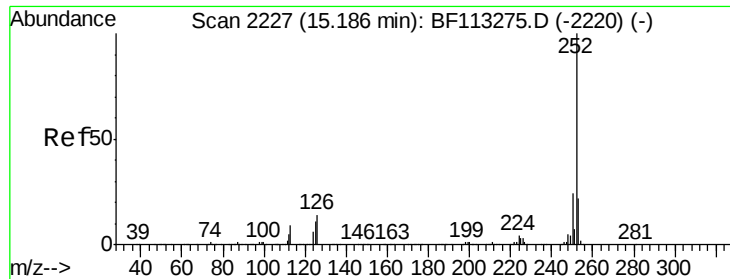
Tgt Ion:252 Resp: 1359709
Ion Ratio Lower Upper
252 100
253 22.6 18.0 27.0
125 10.9 7.6 11.4



#89
Benzo(k)fluoranthene
Concen: 53.612 ng
RT: 14.85 min Scan# 2170
Delta R.T. -0.03 min
Lab File: BF113396.D
Acq: 29 Mar 2019 3:14

Tgt Ion:252 Resp: 1359709
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 10.9 7.3 10.9





#90

Benzo(a)pyrene

Concen: 9.045 ng

RT: 15.19 min Scan# 2227

Delta R.T. 0.00 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

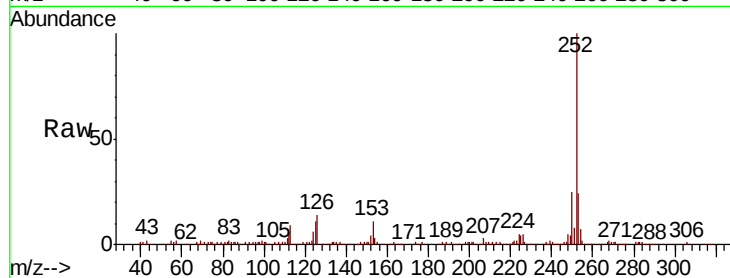
Tgt Ion:252 Resp: 231588

Ion Ratio Lower Upper

252 100

253 24.3 17.9 26.9

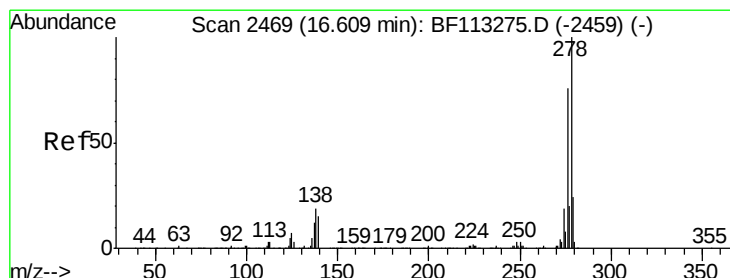
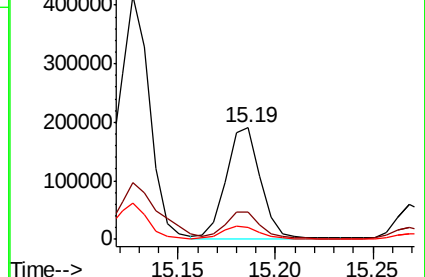
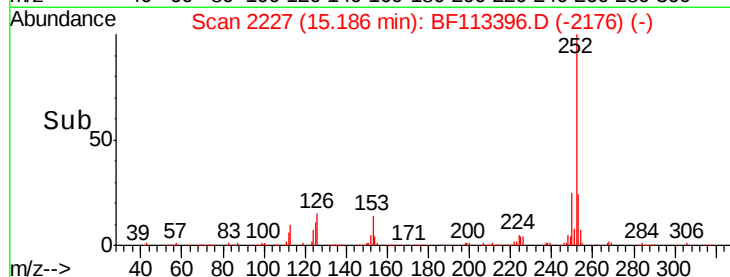
125 11.1 8.8 13.2



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



#91

Dibenzo(a,h)anthracene

Concen: 2.192 ng

RT: 16.60 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

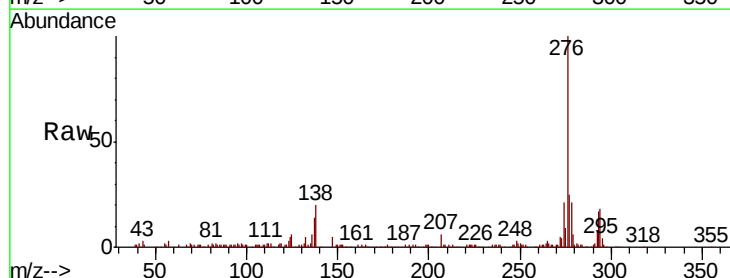
Tgt Ion:278 Resp: 48528

Ion Ratio Lower Upper

278 100

139 0.0 12.0 18.0#

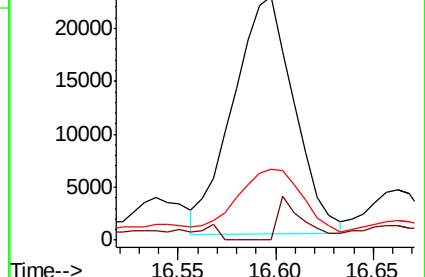
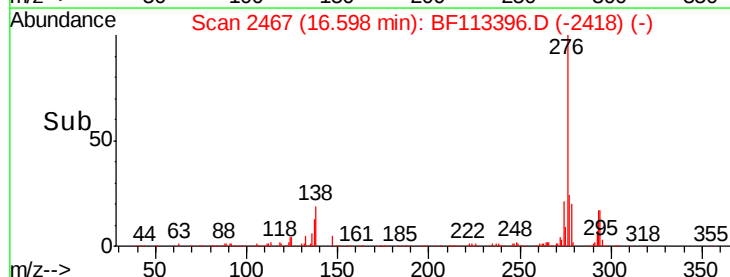
279 28.8 19.0 28.6#

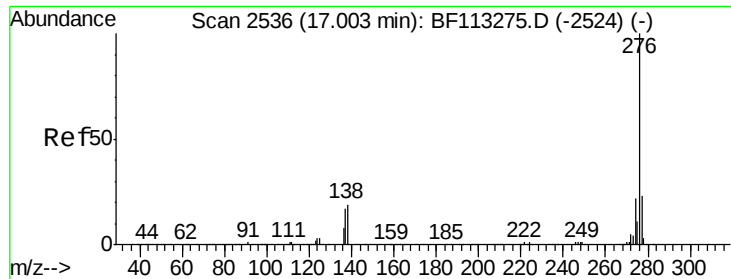


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(g,h,i)perylene

Concen: 8.110 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF113396.D

Acq: 29 Mar 2019 3:14

Instrument :

BNA_F

ClientSampleId :

CS-18DL

Tgt Ion: 276 Resp: 181028

Ion Ratio Lower Upper

276 100

277 22.8 18.8 28.2

138 20.5 15.6 23.4

