

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100318\
 Data File : BF109543.D
 Acq On : 3 Oct 2018 13:55
 Operator : JU/SJ
 Sample : J5198-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100218-C

Manual Integrations
 APPROVED

Sohil
 10/4/2018 11:43:52 AM

Quant Time: Oct 03 15:14:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 22 13:32:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	111457	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	420928	20.00	ng	-0.01
38) Acenaphthene-d10	9.73	164	198231	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	330574	20.00	ng	0.00
75) Chrysene-d12	13.84	240	233413	20.00	ng	0.00
86) Perylene-d12	15.24	264	258528	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	609033	90.00	ng	0.00
7) Phenol-d6	6.35	99	809871	93.79	ng	-0.01
23) Nitrobenzene-d5	7.26	82	518531	72.72	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	181145	92.70	ng	-0.02
44) 2-Fluorobiphenyl	9.06	172	818743	62.29	ng	-0.02
78) Terphenyl-d14	12.79	244	566671	59.58	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.00	128	239547	12.178	ng	99
37) 2-Methylnaphthalene	8.69	142	31667m	2.497	ng	
48) Acenaphthylene	9.59	152	116833	6.002	ng	99
49) Dimethylphthalate	9.45	163	312398	21.667	ng	99
51) Acenaphthene	9.76	154	31541	2.680	ng	97
57) Fluorene	10.27	166	27536	2.205	ng	99
70) Phenanthrene	11.23	178	321299	19.466	ng	98
71) Anthracene	11.28	178	88131	5.264	ng	98
74) Fluoranthene	12.42	202	612415	34.719	ng	97
77) Pyrene	12.64	202	670669	40.092	ng	99
80) Benzo(a)anthracene	13.83	228	409583m	29.133	ng	
82) Chrysene	13.86	228	366586	26.307	ng	98
85) Indeno(1,2,3-cd)pyrene	16.60	276	372753	33.002	ng	# 89
87) Benzo(b)fluoranthene	14.85	252	654178m	46.050	ng	
88) Benzo(k)fluoranthene	14.87	252	248624m	18.444	ng	
89) Benzo(a)pyrene	15.19	252	544826	42.562	ng	97
90) Dibenzo(a,h)anthracene	16.60	278	77071m	7.339	ng	
91) Benzo(g,h,i)perylene	17.00	276	377045	36.532	ng	# 91

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

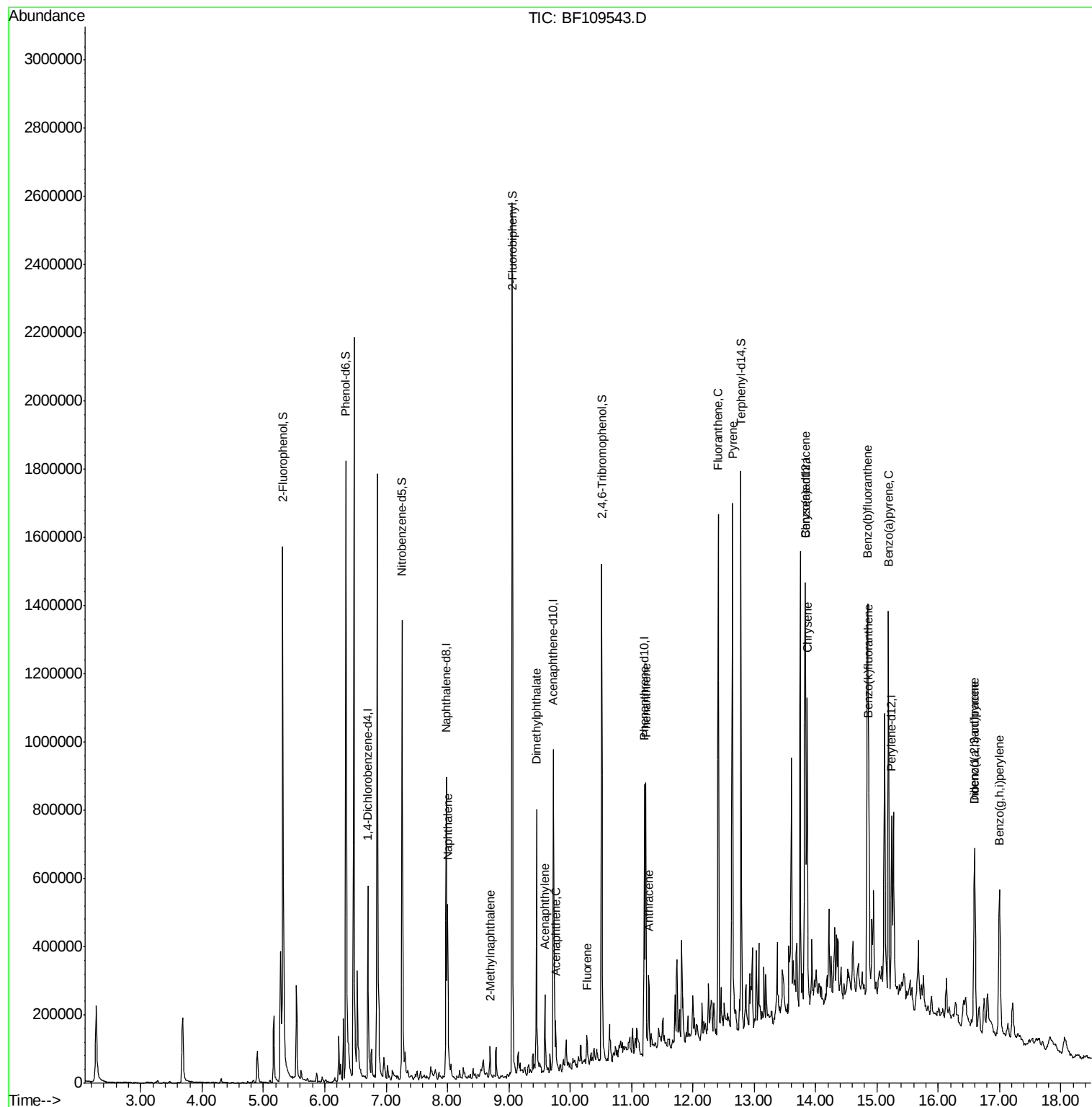
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100318\
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ALS Vial : 5 Sample Multiplier: 1

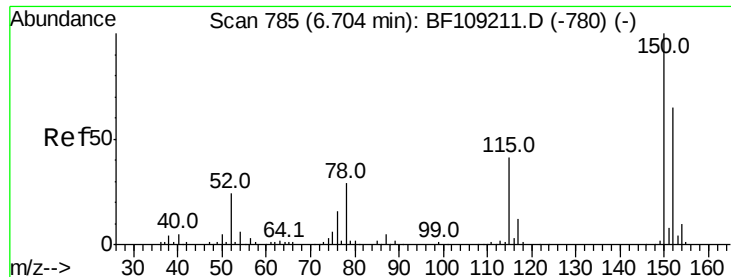
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#1

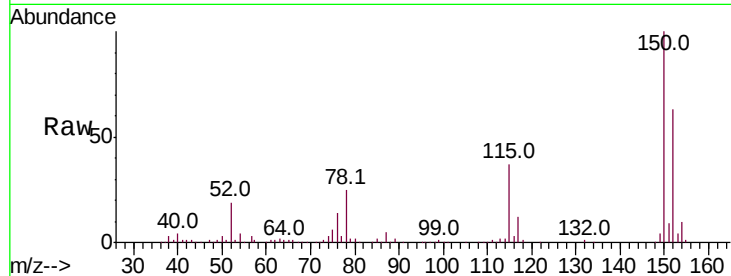
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 785
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	58.8	50.1	75.1

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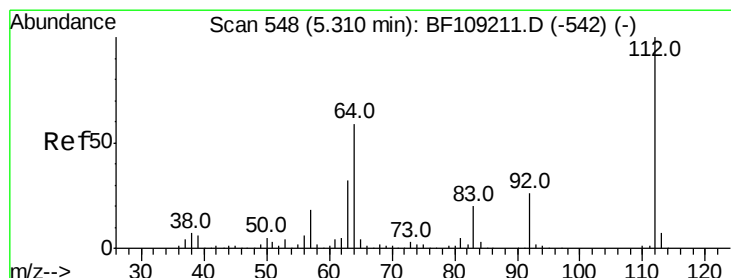
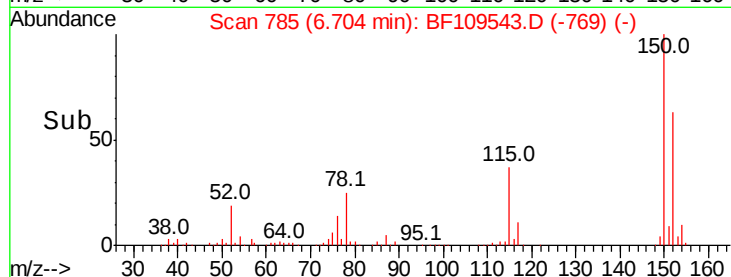
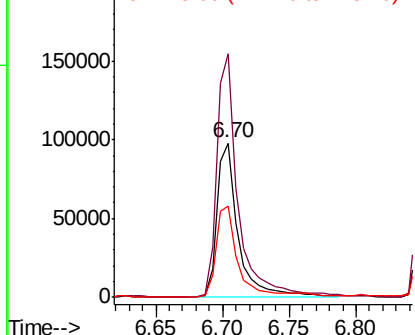


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

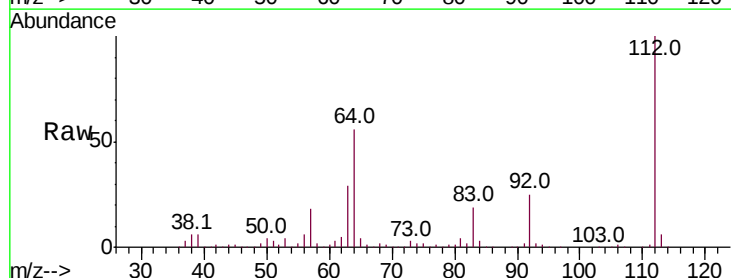
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 90.001 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	47.9	71.9
63	29.4	23.7	35.5

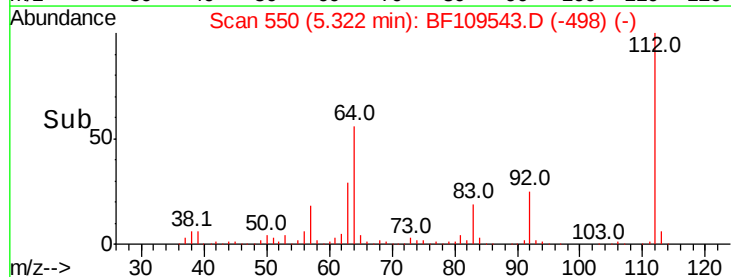
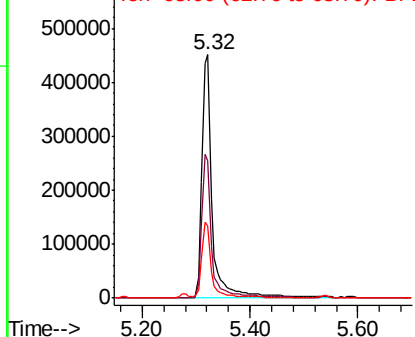


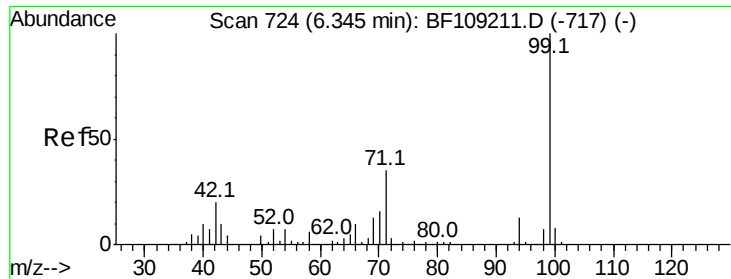
Abundance

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: 93.791 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Instrument :

BNA_F

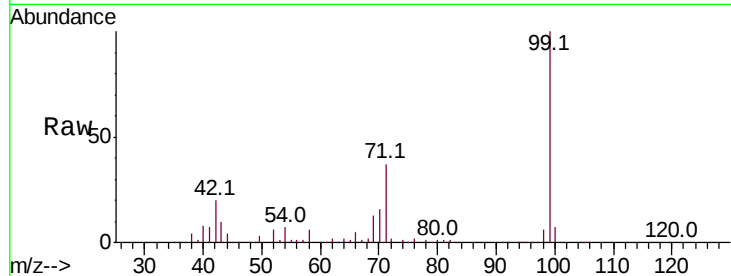
ClientSampleId :

CL-01-100218-C

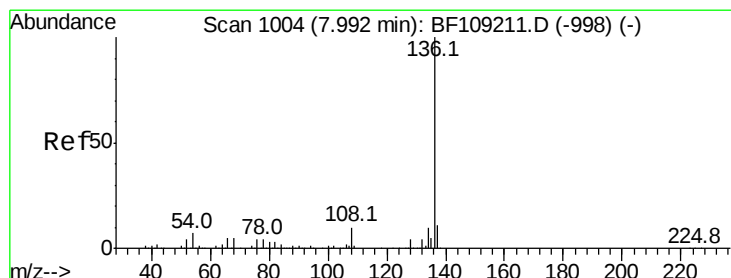
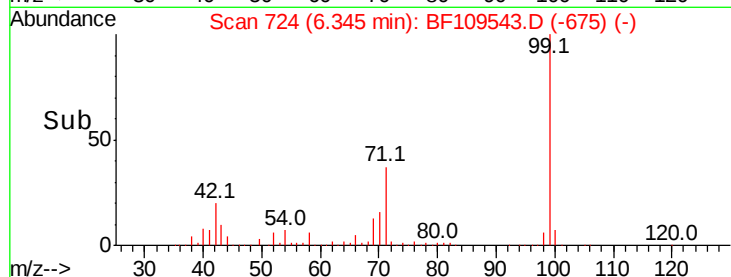
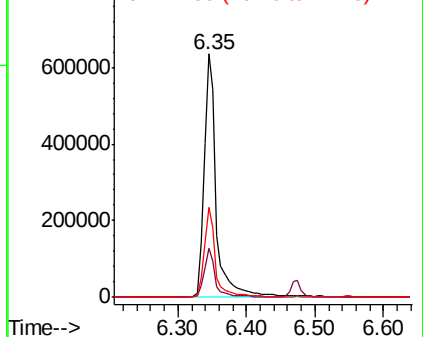
Tot Ion:	99	Resp:	809871
Ion	Ratio	Lower	Upper
99	100		
42	20.2	14.5	21.7
71	37.0	25.4	38.0

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

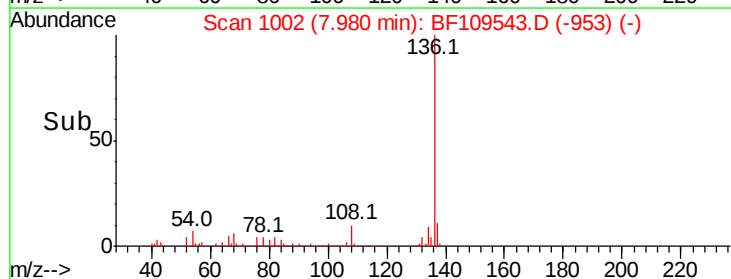
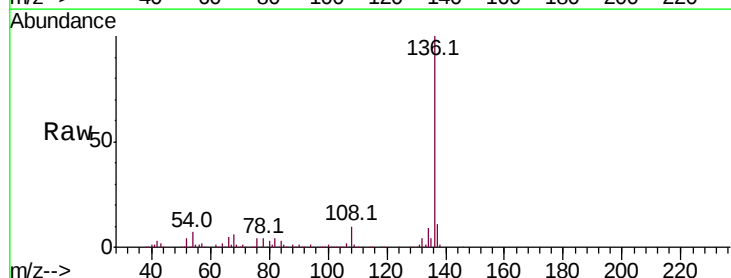
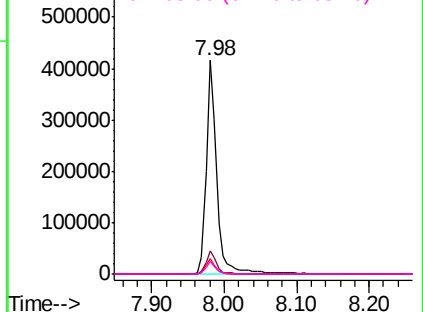
Delta R.T. -0.01 min

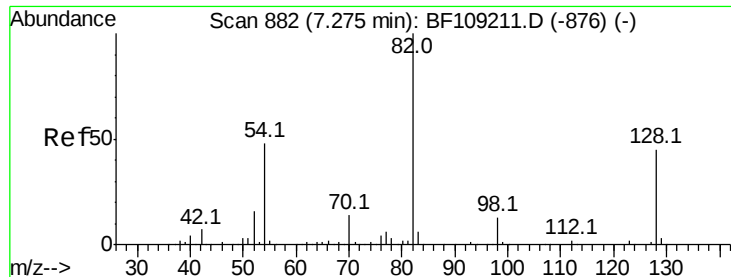
Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Tgt Ion:	136	Resp:	420928
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.3	6.6	9.8
68	5.7	5.0	7.4

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





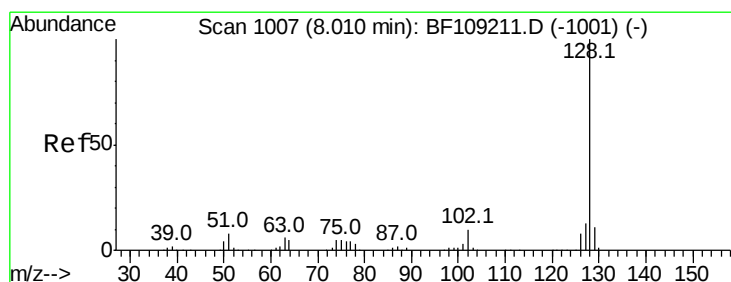
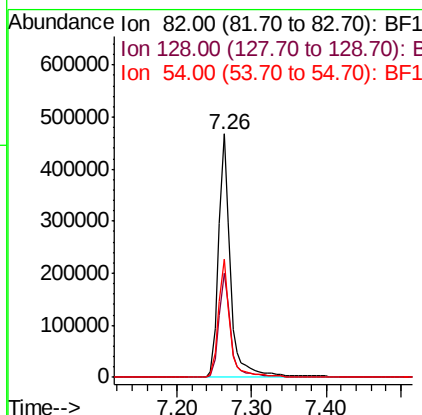
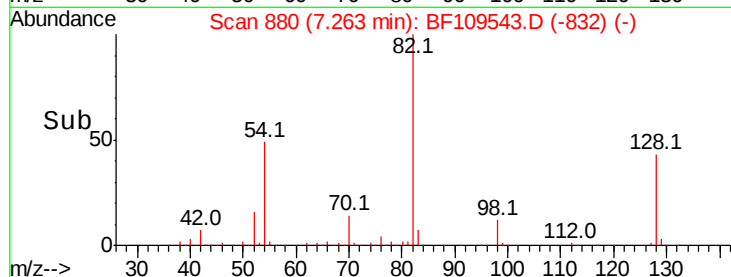
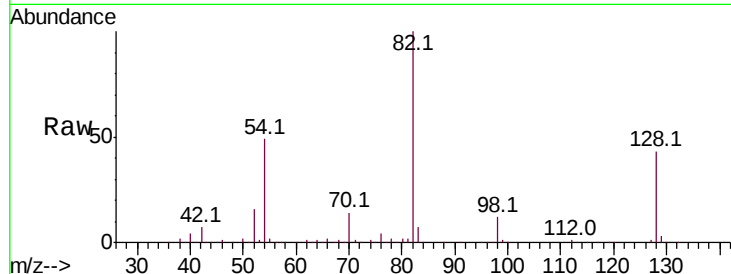
#23
Nitrobenzene-d5
Concen: 72.719 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.02 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.9	36.1	54.1
54	48.6	41.4	62.2

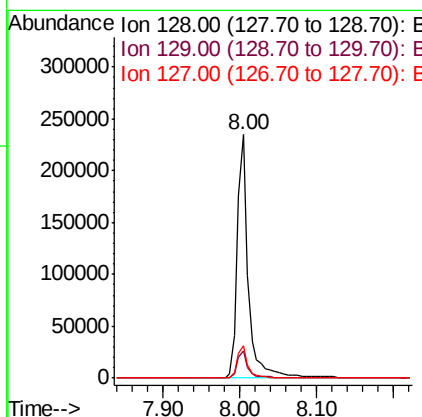
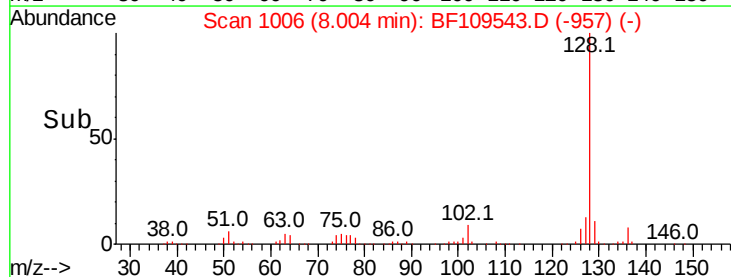
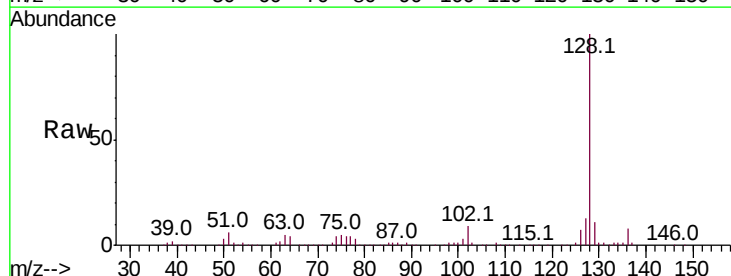
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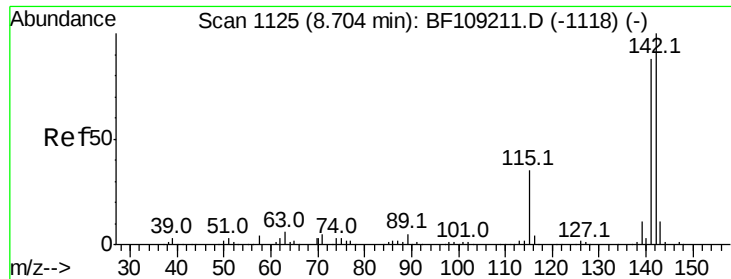
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#31
Naphthalene
Concen: 12.178 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.9	16.3





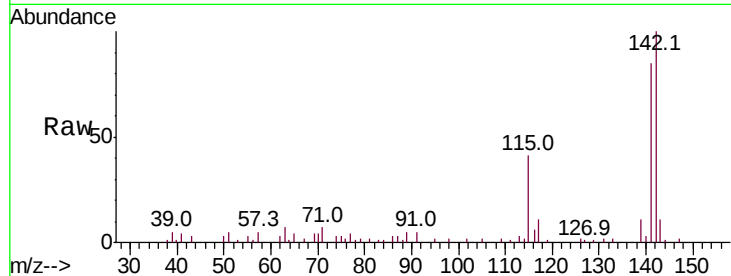
#37
2-Methylnaphthalene
Concen: 2.497 ng m
RT: 8.69 min Scan# 1123
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.3	70.8	106.2
115	40.8	26.1	39.1#

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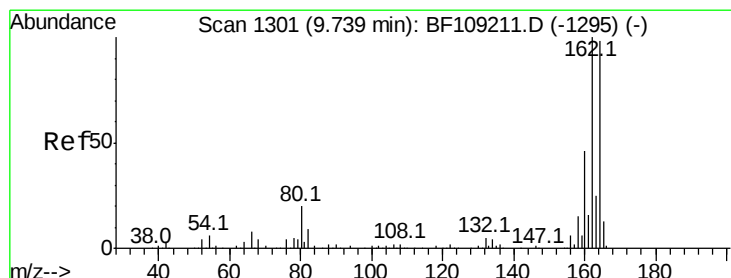
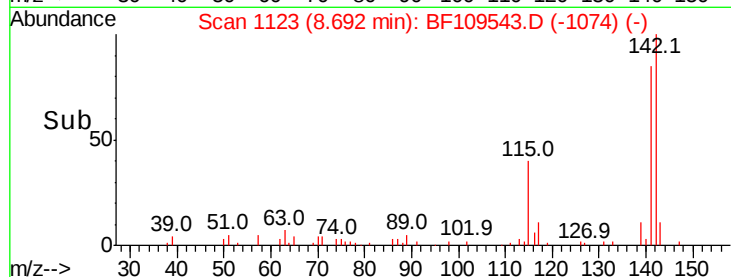
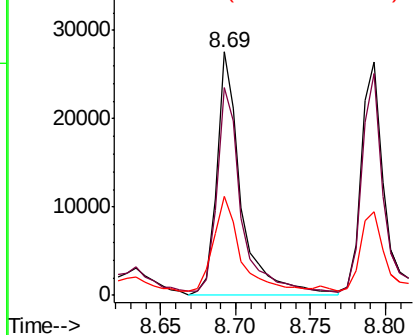


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

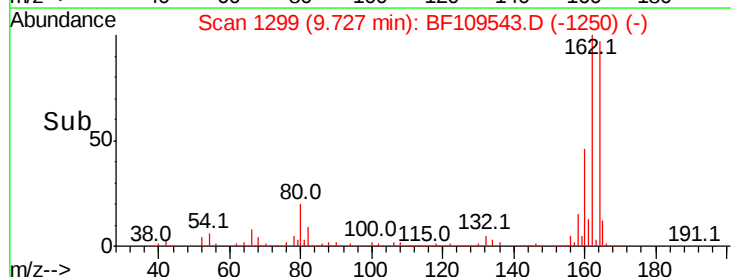
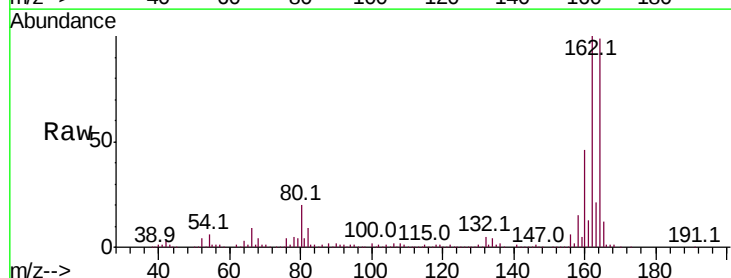
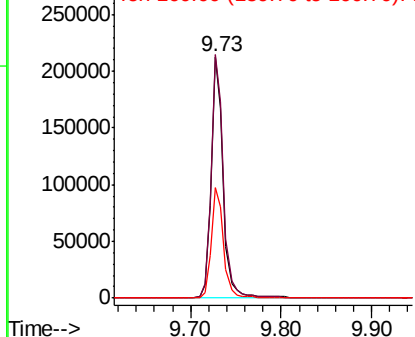
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.0	86.1	129.1
160	46.0	38.3	57.5

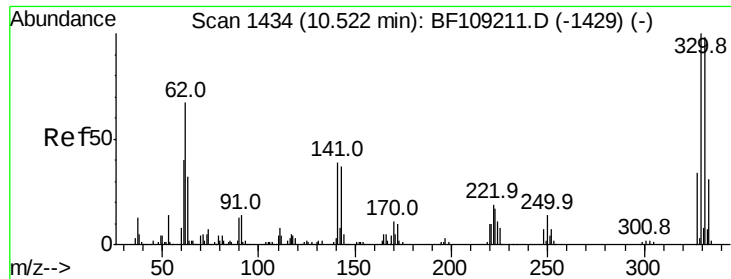
Abundance

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





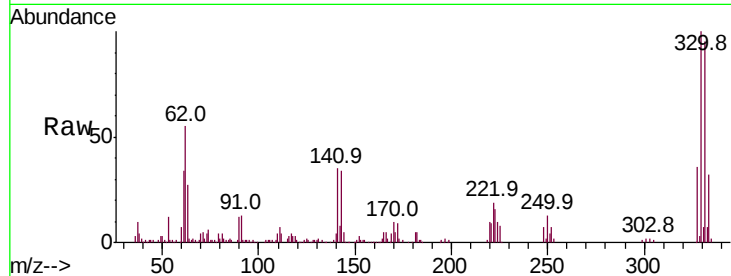
#41
 2,4,6-Tribromophenol
 Concen: 92.698 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF109543.D
 Acq: 3 Oct 2018 13:55

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100218-C

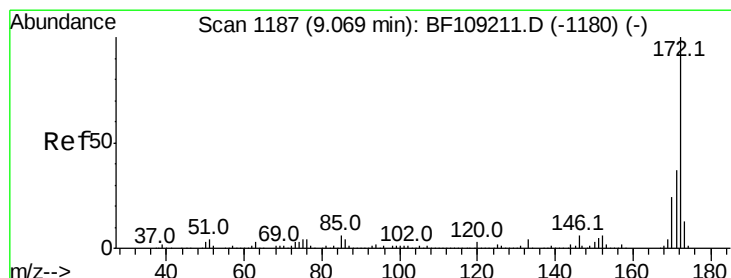
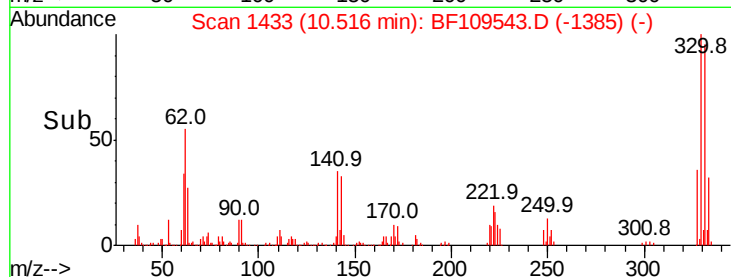
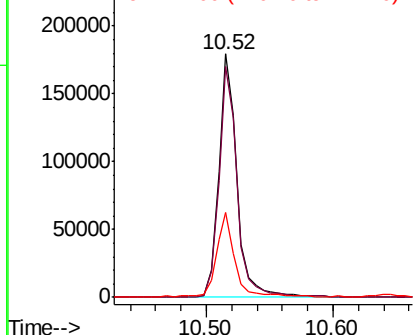
Tot Ion	Ratio	Resp	Lower	Upper
330	100	181145		
332	96.1	77.0	115.6	
141	33.8	29.9	44.9	

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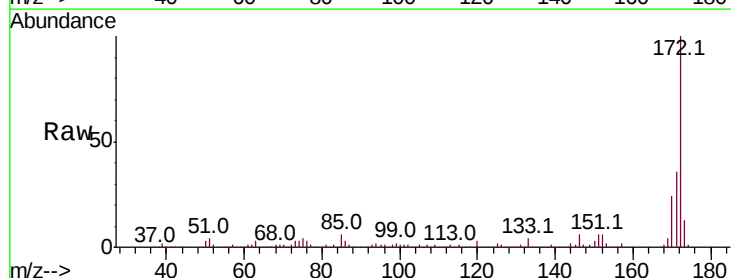


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

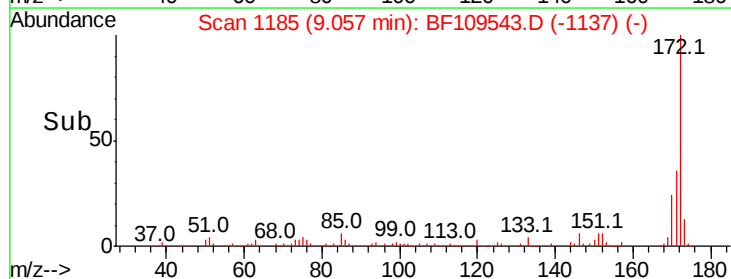
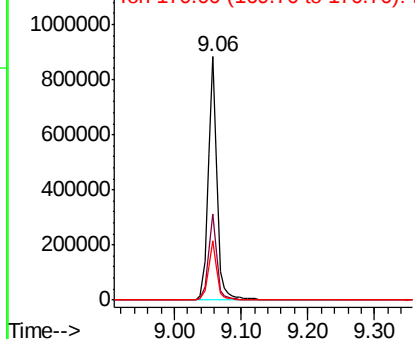


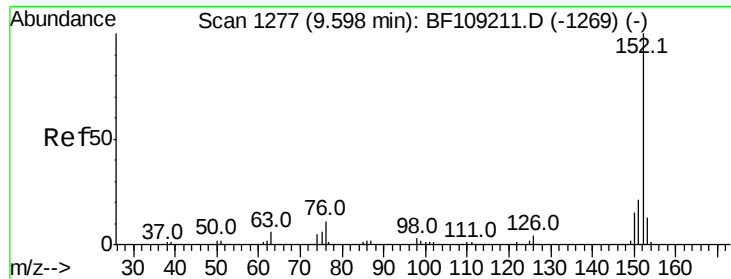
#44
 2-Fluorobiphenyl
 Concen: 62.292 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF109543.D
 Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	818743		
171	35.7	29.7	44.5	
170	24.4	19.6	29.4	



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





#48

Acenaphthylene

Concen: 6.002 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Instrument :

BNA_F

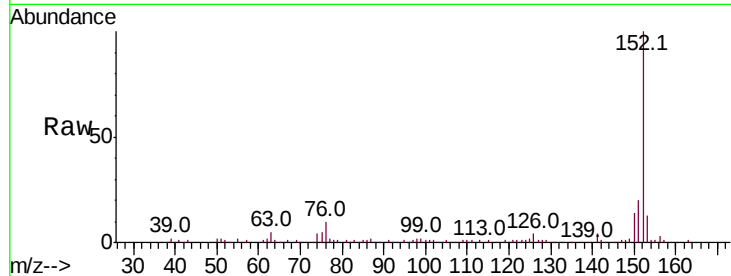
ClientSampleId :

CL-01-100218-C

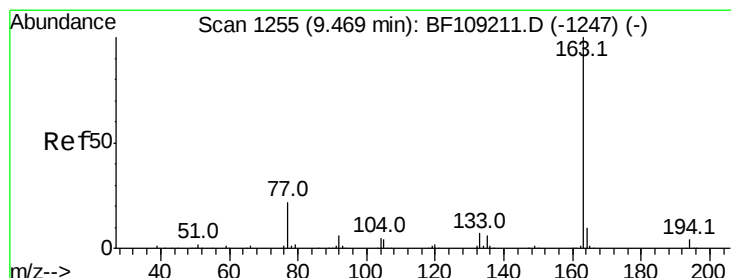
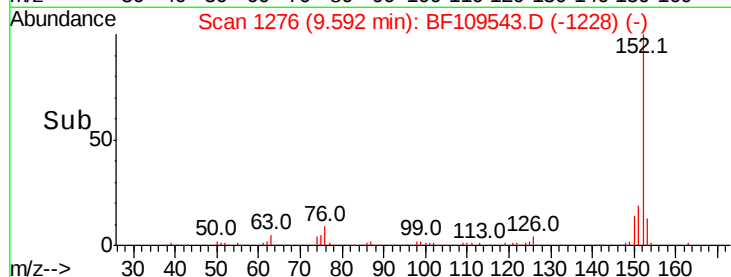
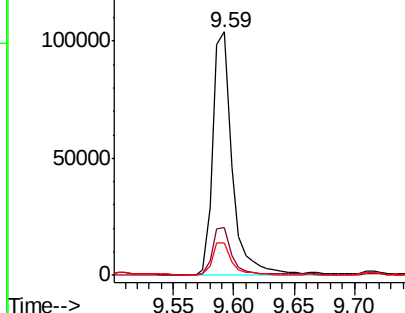
Tot Ion:	152	Resp:	116833
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.3	24.5
153	13.3	10.7	16.1

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 21.667 ng

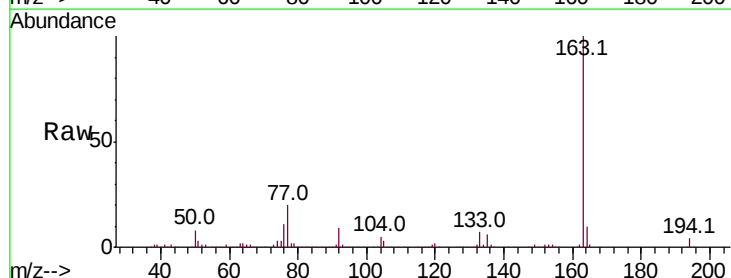
RT: 9.45 min Scan# 1252

Delta R.T. -0.03 min

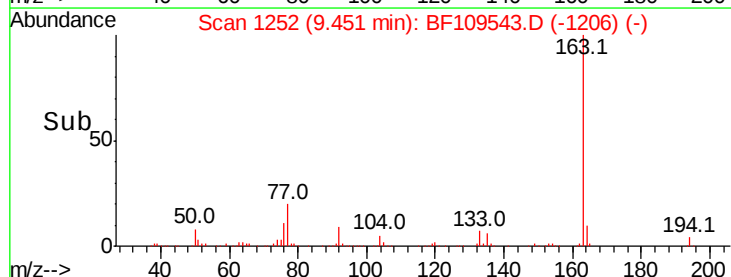
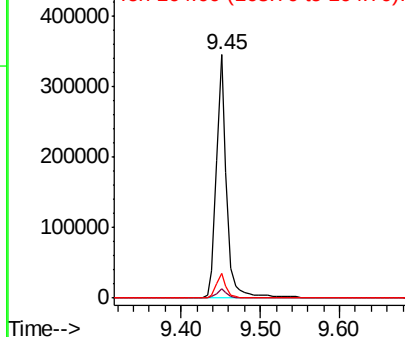
Lab File: BF109543.D

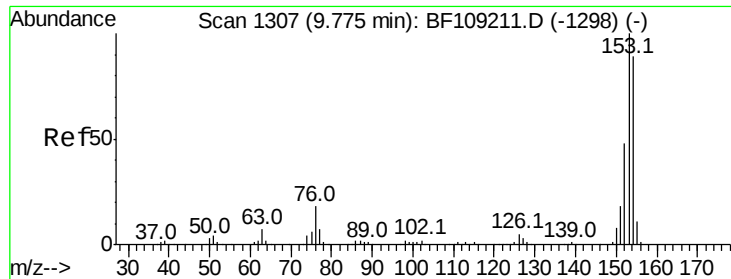
Acq: 3 Oct 2018 13:55

Tgt Ion:	163	Resp:	312398
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.7	4.1
164	10.1	8.2	12.2



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





#51

Acenaphthene

Concen: 2.680 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.02 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Instrument :

BNA_F

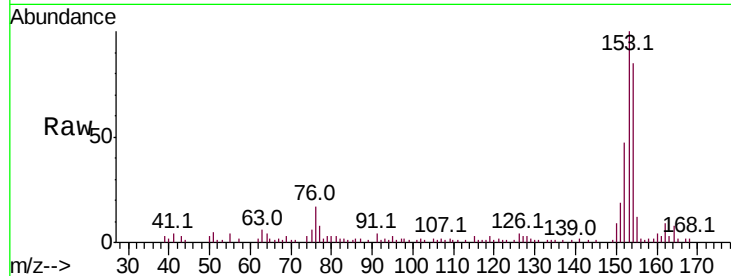
ClientSampleId :

CL-01-100218-C

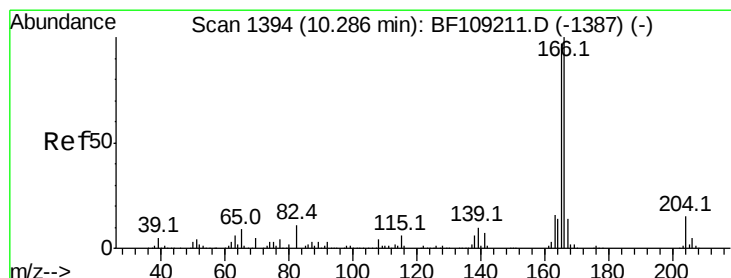
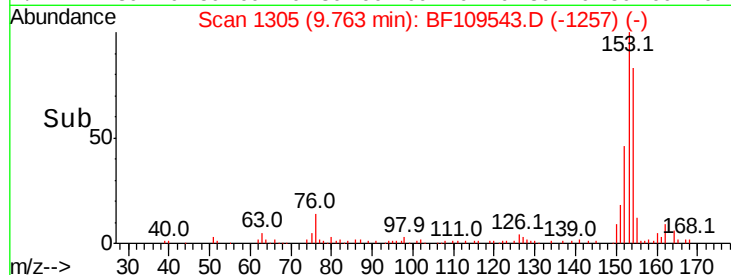
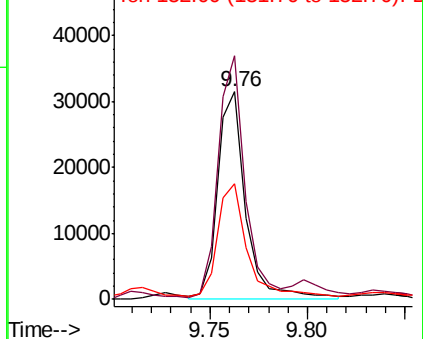
Tot Ion:	154	Resp:	31541
Ion Ratio	Lower	Upper	
154	100		
153	117.5	91.2	136.8
152	55.7	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 2.205 ng

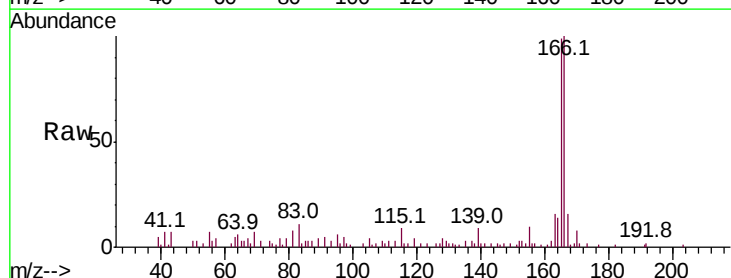
RT: 10.27 min Scan# 1392

Delta R.T. -0.02 min

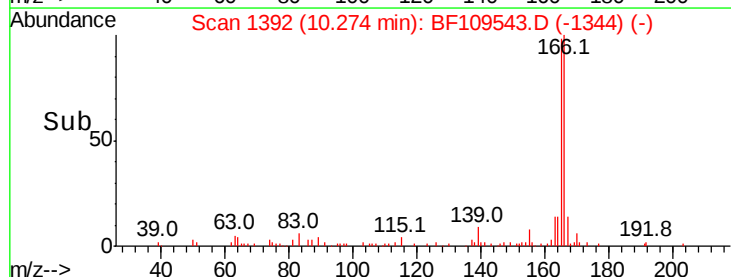
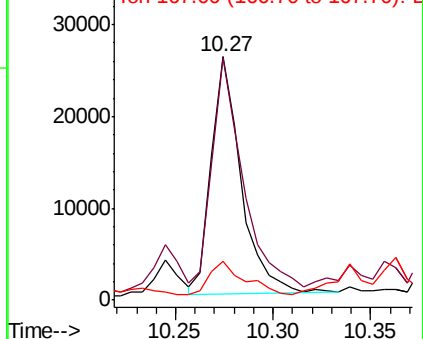
Lab File: BF109543.D

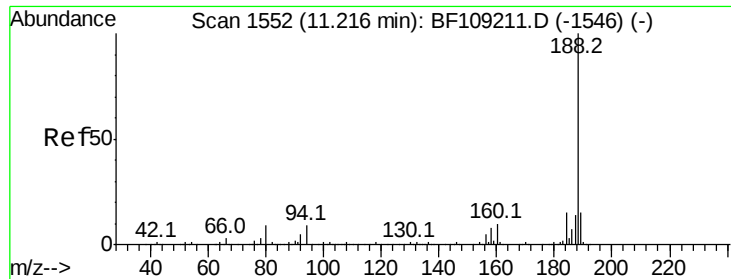
Acq: 3 Oct 2018 13:55

Tgt Ion:	166	Resp:	27536
Ion Ratio	Lower	Upper	
166	100		
165	99.3	79.8	119.8
167	15.9	10.6	16.0



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





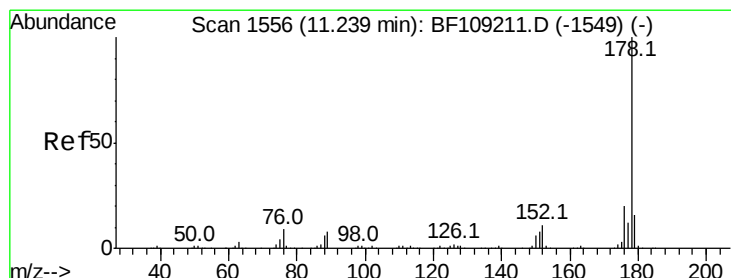
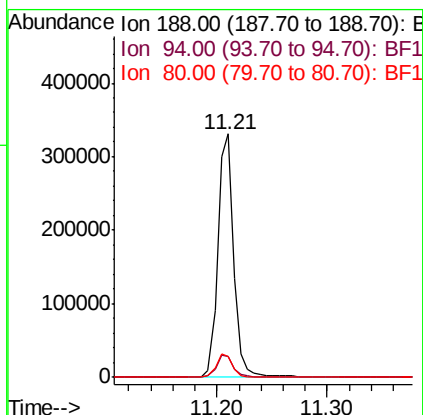
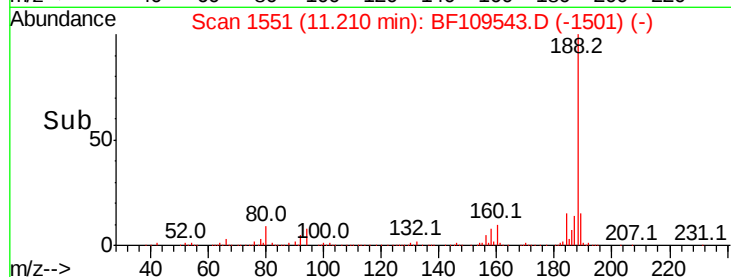
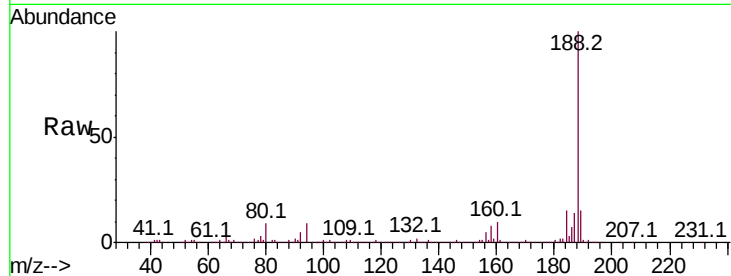
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.6	8.5	12.7	
80	8.6	9.2	13.8	

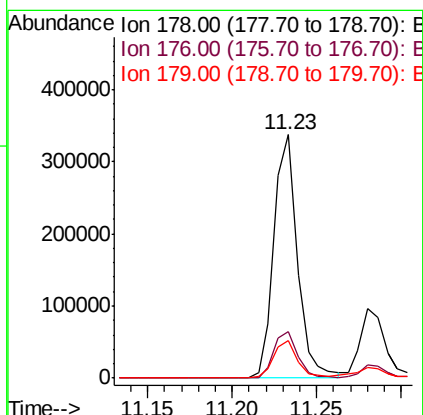
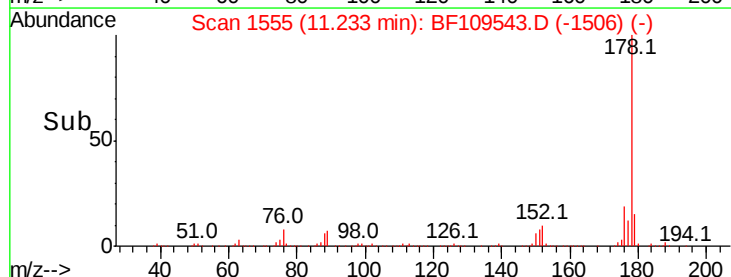
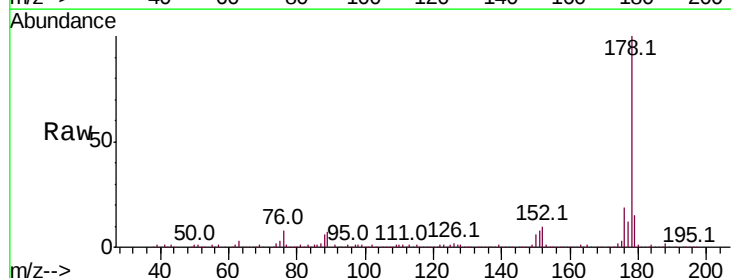
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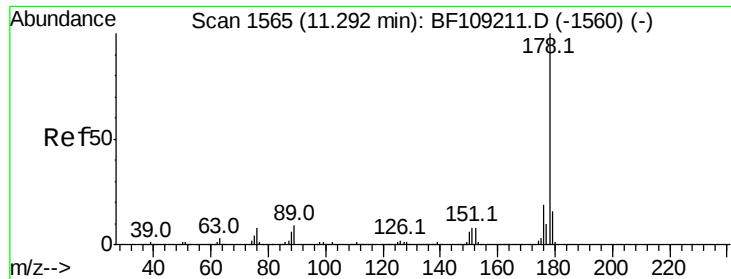
Sohil
10/4/2018 11:43:52 AM



#70
Phenanthrene
Concen: 19.466 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.3	15.8	23.8	
179	15.3	13.0	19.6	





#71

Anthracene

Concen: 5.264 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.02 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Instrument :

BNA_F

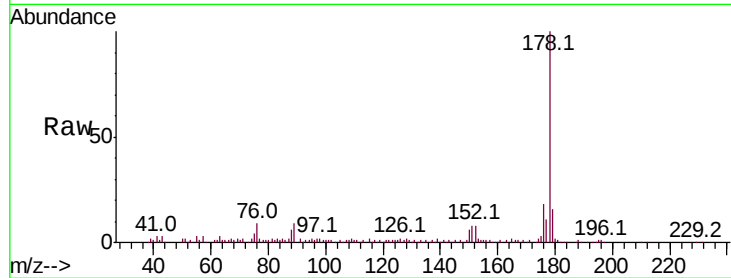
ClientSampleId :

CL-01-100218-C

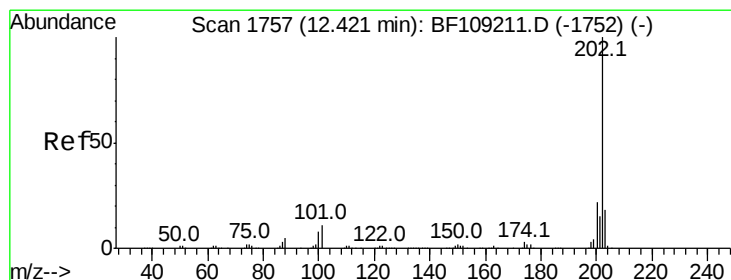
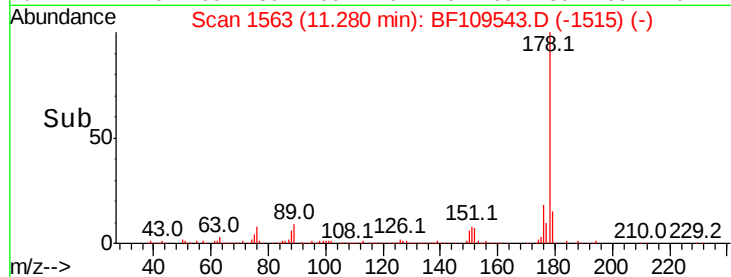
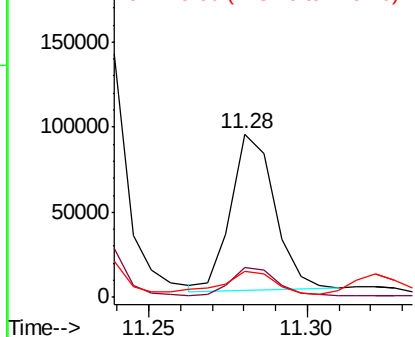
Tot Ion:	178	Resp:	88131
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.4	23.2
179	16.2	12.6	19.0

Manual Integrations
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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



#74

Fluoranthene

Concen: 34.719 ng

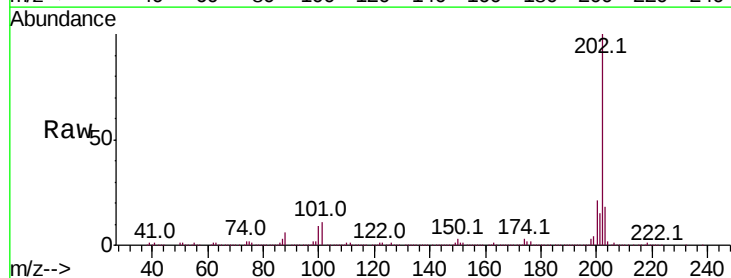
RT: 12.42 min Scan# 1756

Delta R.T. -0.01 min

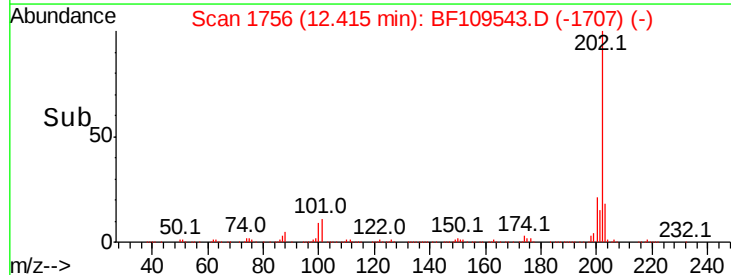
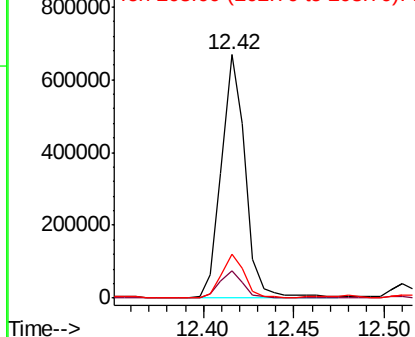
Lab File: BF109543.D

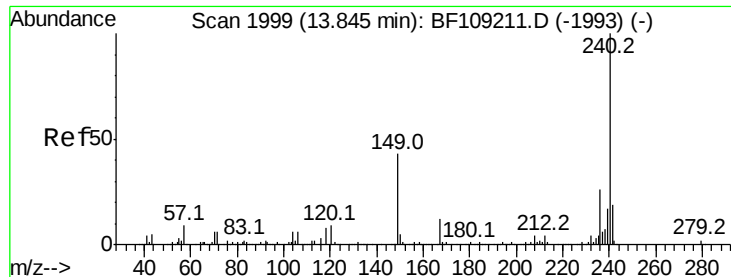
Acq: 3 Oct 2018 13:55

Tgt Ion:	202	Resp:	612415
Ion Ratio	Lower	Upper	
202	100		
101	11.2	0.0	34.1
203	17.8	0.0	38.1



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Instrument :

BNA_F

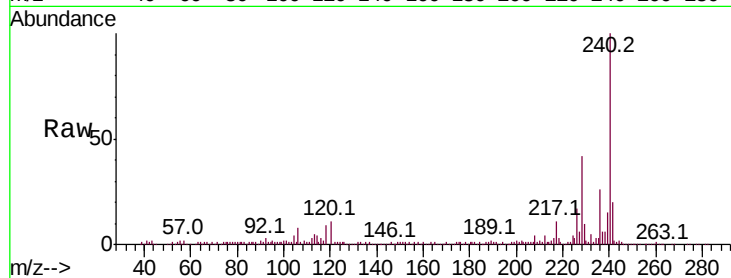
ClientSampleId :

CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.5	14.3
236	25.8	20.7	31.1

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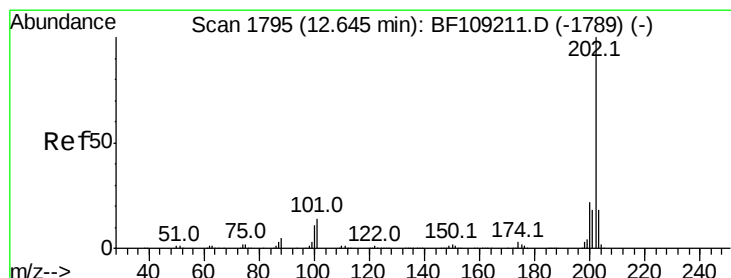
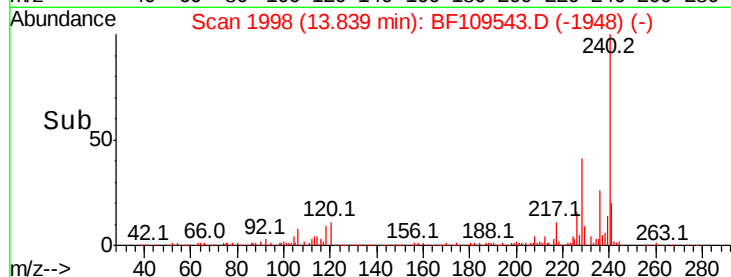
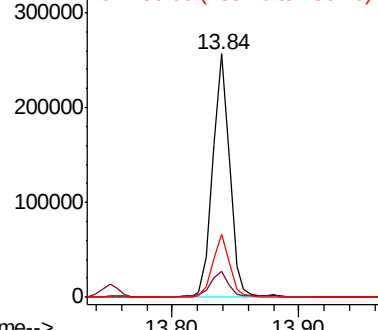
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 40.092 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF109543.D

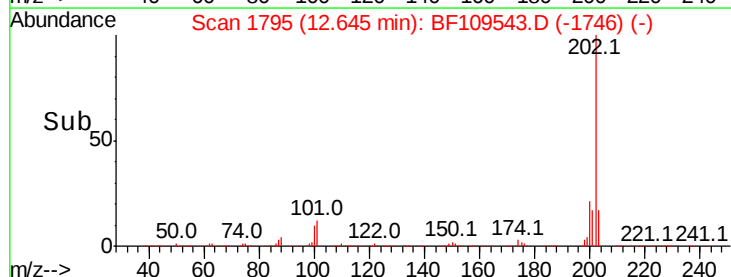
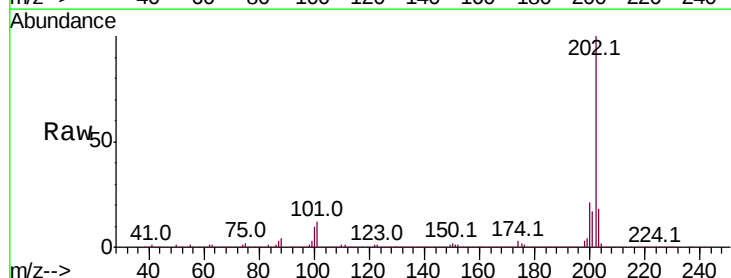
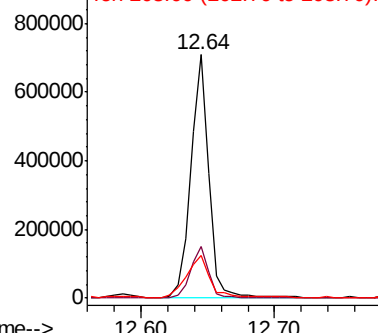
Acq: 3 Oct 2018 13:55

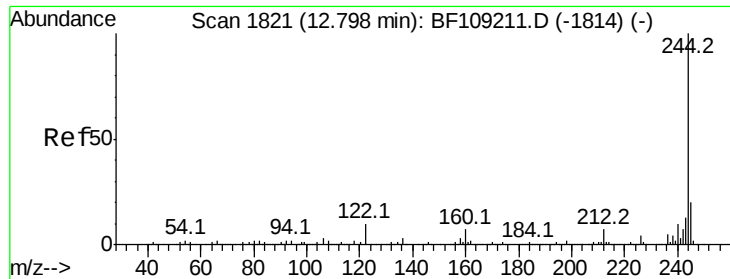
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.7	14.3	21.5

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





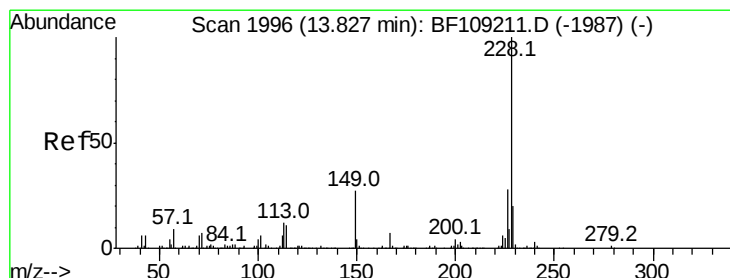
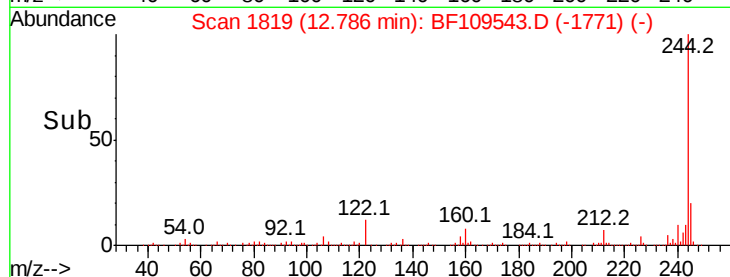
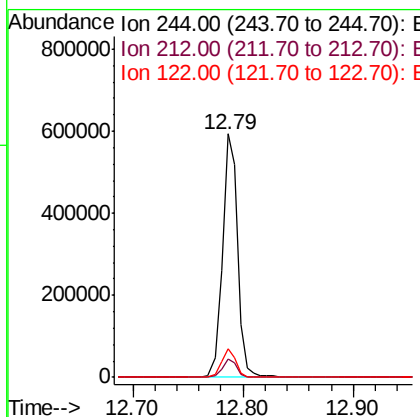
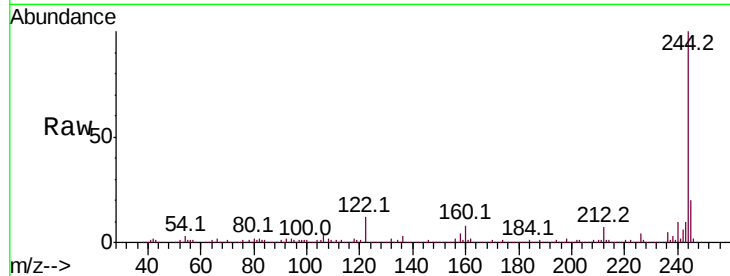
#78
 Terphenyl-d14
 Concen: 59.581 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.02 min
 Lab File: BF109543.D
 Acq: 3 Oct 2018 13:55

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.4	8.0
122	12.0	11.0	16.4

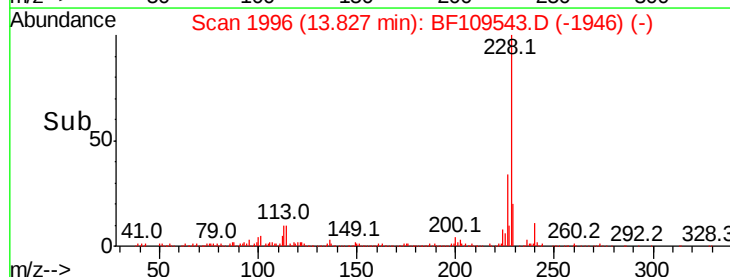
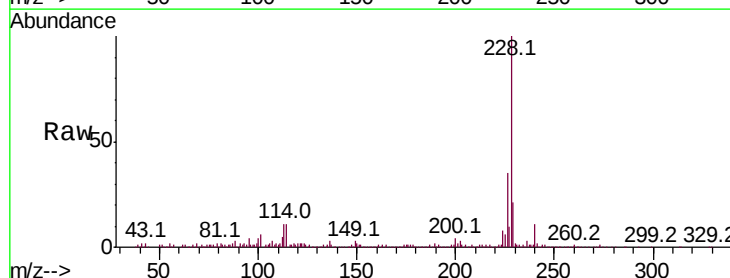
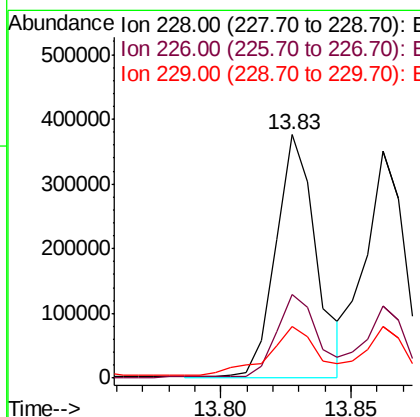
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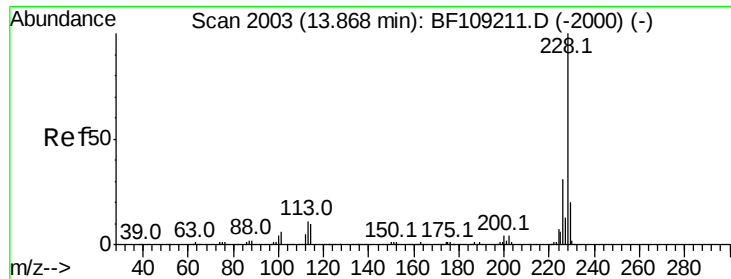
Sohil
 10/4/2018 11:43:52 AM



#80
 Benzo(a)anthracene
 Concen: 29.133 ng m
 RT: 13.83 min Scan# 1996
 Delta R.T. -0.01 min
 Lab File: BF109543.D
 Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.6	22.6	33.8#
229	21.1	15.8	23.6





#82

Chrysene

Concen: 26.307 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Instrument :

BNA_F

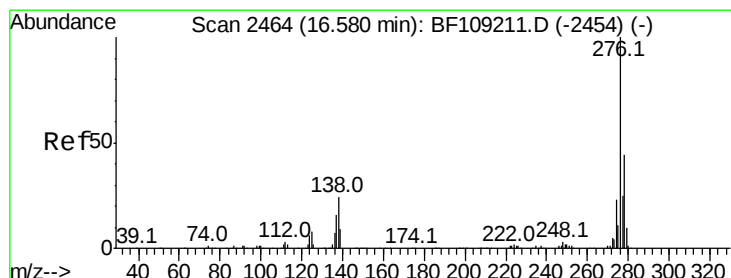
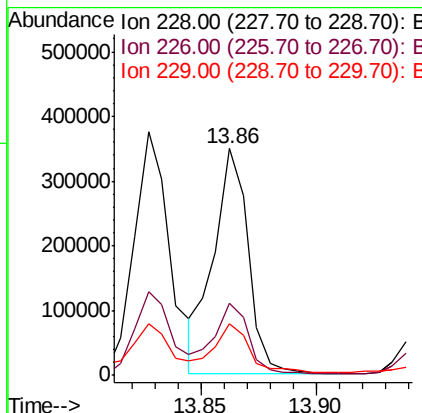
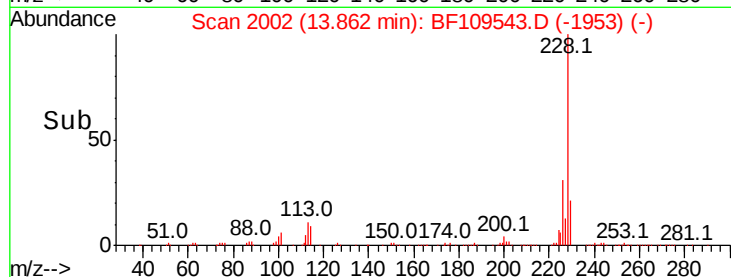
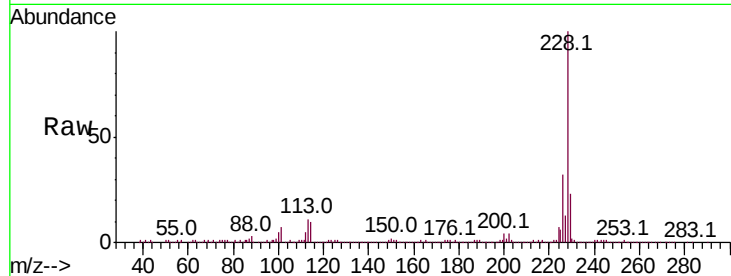
ClientSampleId :

CL-01-100218-C

Tot Ion:	228	Resp:	366586
Ion Ratio	Lower	Upper	
228	100		
226	31.7	25.0	37.6
229	22.6	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 33.002 ng

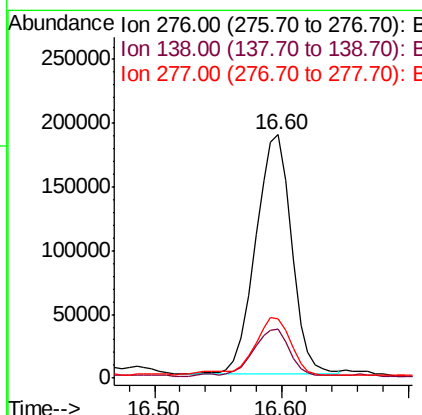
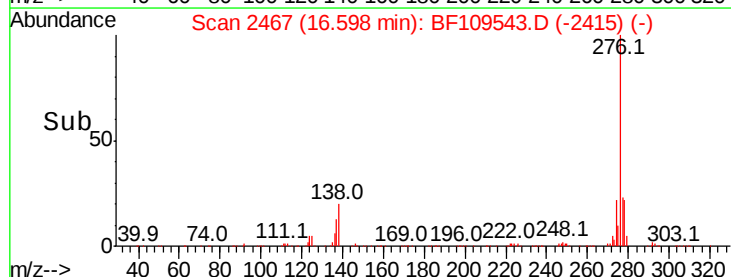
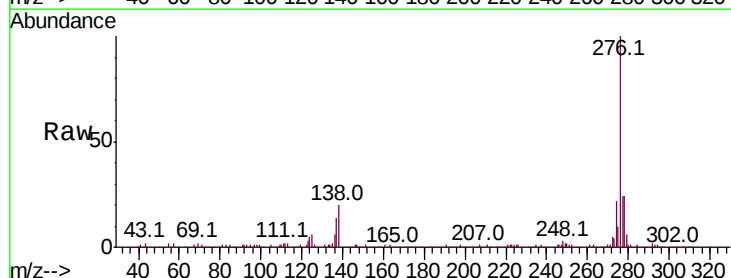
RT: 16.60 min Scan# 2467

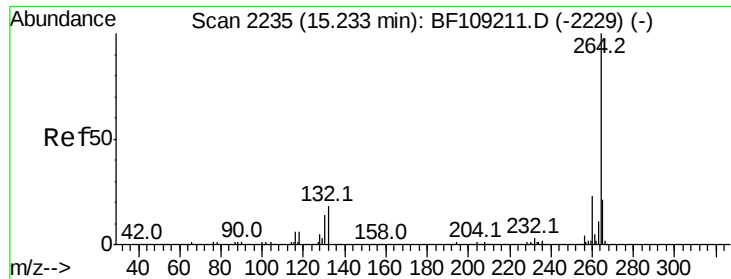
Delta R.T. 0.01 min

Lab File: BF109543.D

Acq: 3 Oct 2018 13:55

Tgt Ion:	276	Resp:	372753
Ion Ratio	Lower	Upper	
276	100		
138	21.1	25.0	37.6#
277	24.1	20.1	30.1





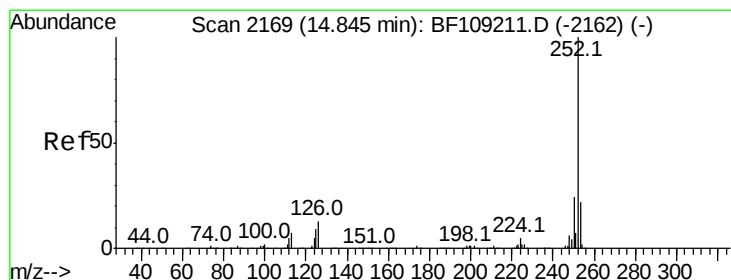
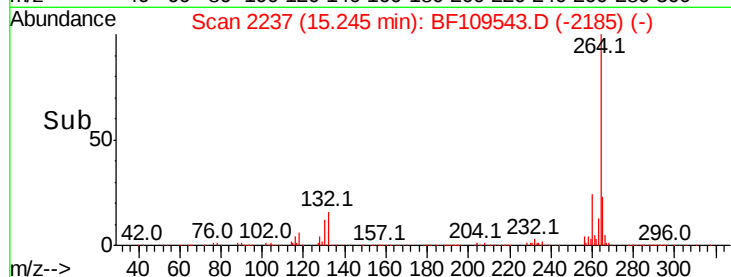
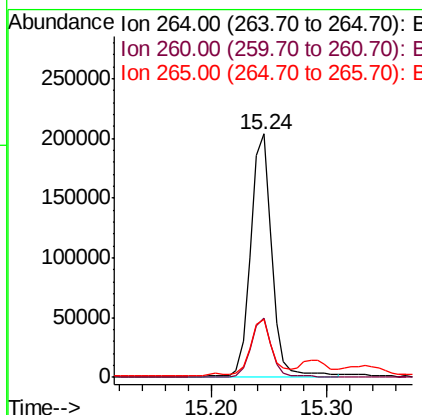
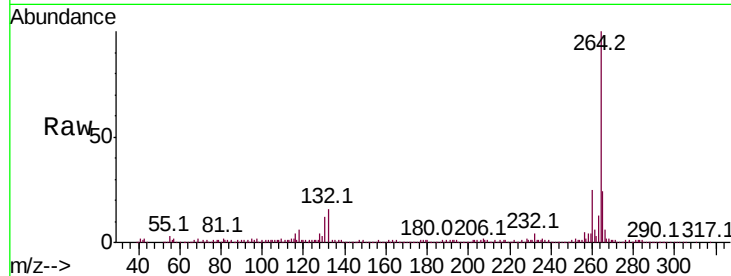
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	23.8	17.5	26.3

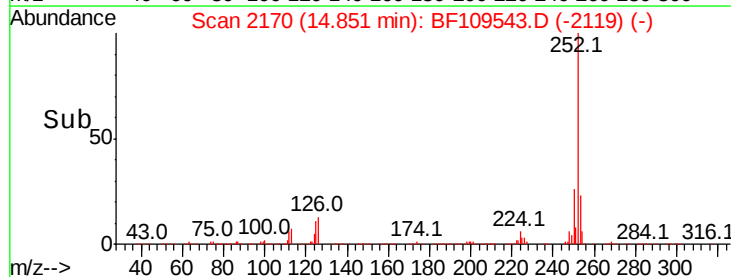
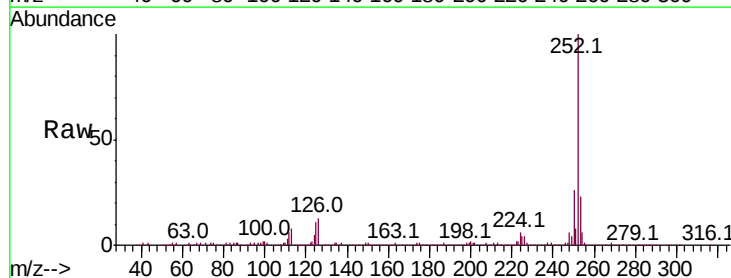
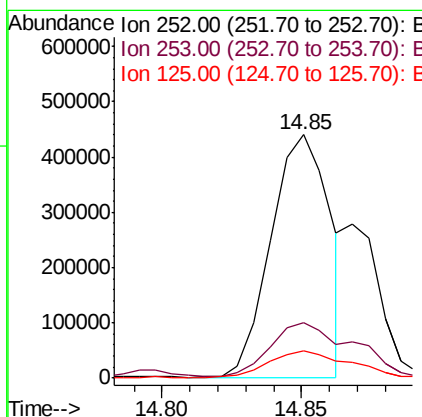
Manual Integrations
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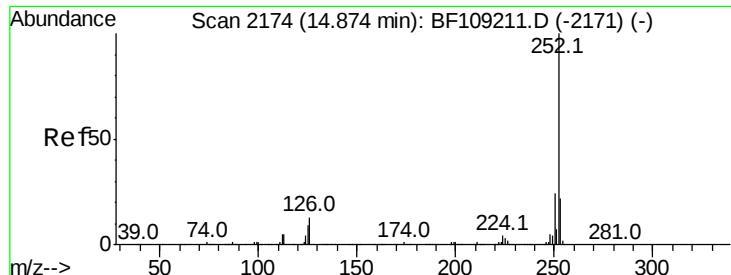
Sohil
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#87
Benzo(b)fluoranthene
Concen: 46.050 ng m
RT: 14.85 min Scan# 2170
Delta R.T. -0.00 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	11.1	9.0	13.6





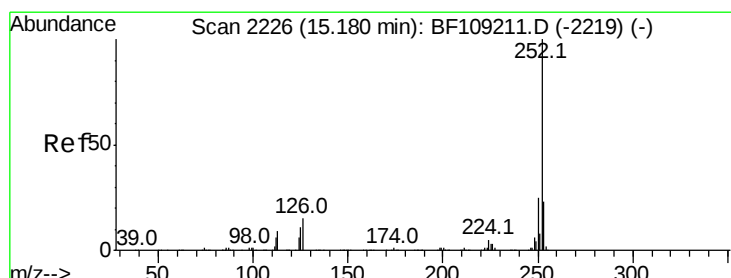
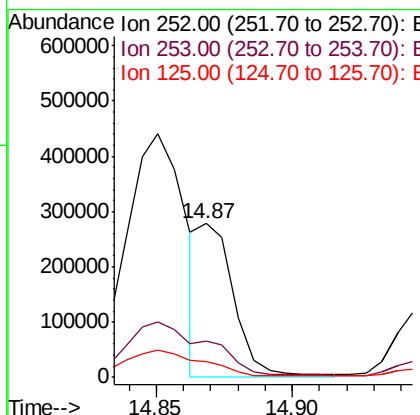
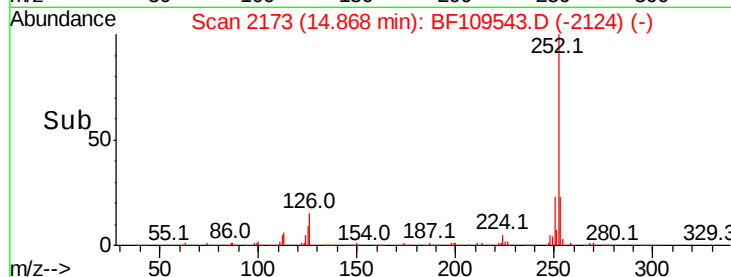
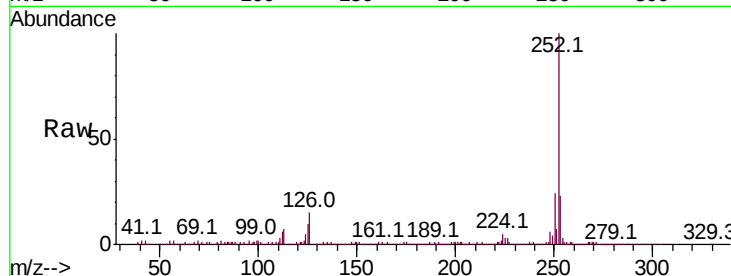
#88
Benzo(k)fluoranthene
Concen: 18.444 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	10.2	10.2	15.2

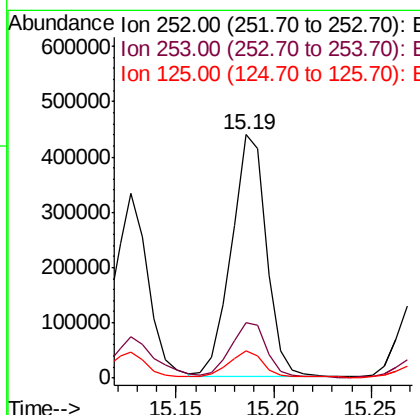
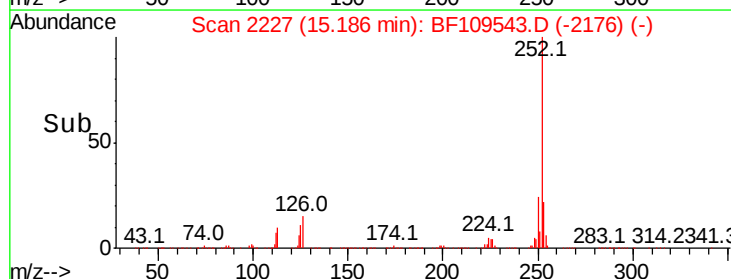
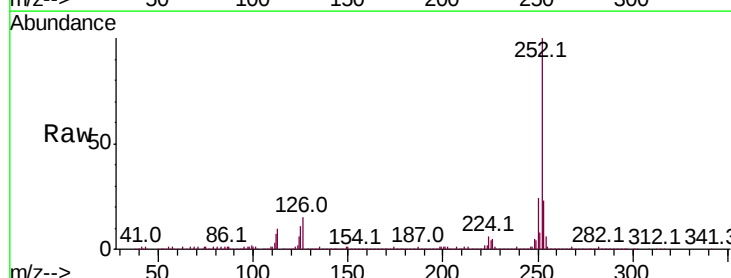
Manual Integrations
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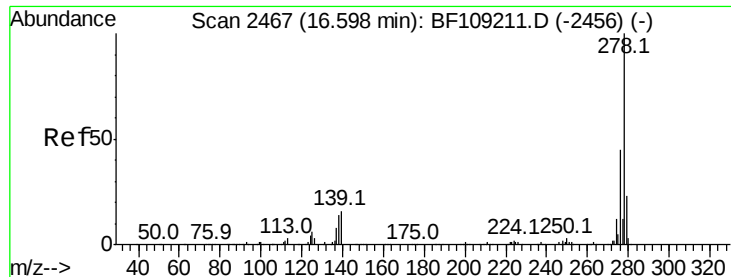
Sohil
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#89
Benzo(a)pyrene
Concen: 42.562 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.00 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	11.1	9.8	14.6





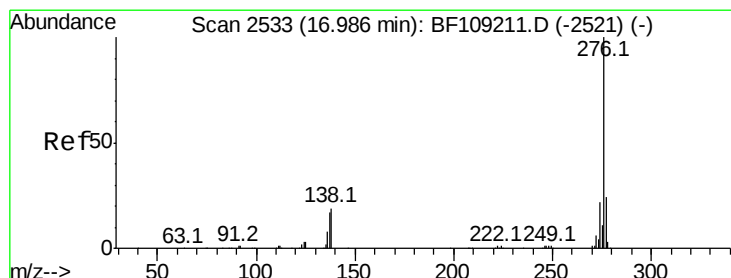
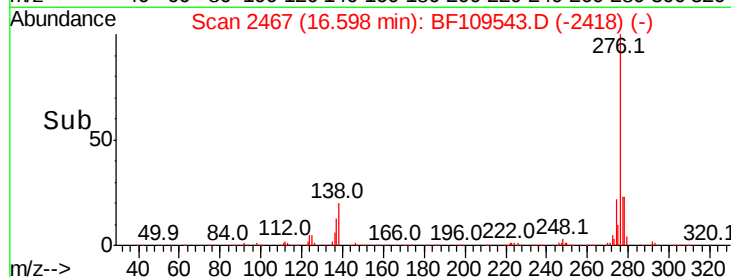
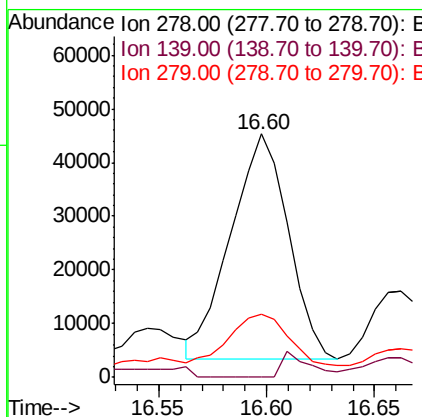
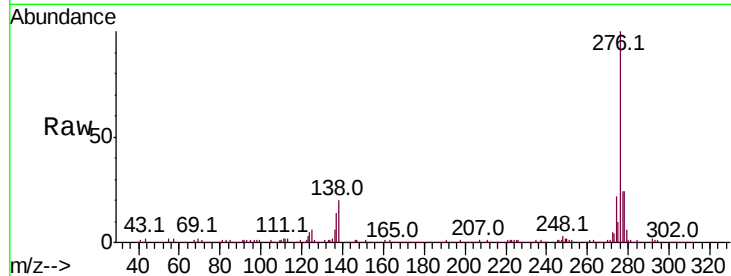
#90
Dibenzo(a,h)anthracene
Concen: 7.339 ng/mL
RT: 16.60 min Scan# 2467
Delta R.T. -0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Instrument :
BNA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	26.1	19.0	28.4

Manual Integrations
APPROVED

Sohil
10/4/2018 11:43:52 AM



#91
Benzo(g,h,i)perylene
Concen: 36.532 ng/mL
RT: 17.00 min Scan# 2536
Delta R.T. 0.01 min
Lab File: BF109543.D
Acq: 3 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	17.9	26.9
138	20.4	21.8	32.8#

