

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030819\
 Data File : BF112950.D
 Acq On : 8 Mar 2019 17:55
 Operator : JU/SJ
 Sample : K1693-01 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-030719-A

Manual Integrations
 APPROVED

Sohil
 3/11/2019 9:32:20 AM

Quant Time: Mar 08 23:39:56 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	183903	20.00	ng	-0.01
21) Naphthalene-d8	8.01	136	748768	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	353557	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	635655	20.00	ng	0.00
76) Chrysene-d12	13.86	240	503763	20.00	ng	-0.01
87) Perylene-d12	15.27	264	528263	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	181175	15.32	ng	-0.02
7) Phenol-d6	6.36	99	243942	16.43	ng	-0.01
23) Nitrobenzene-d5	7.29	82	130421	10.42	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	68773	18.32	ng	-0.02
45) 2-Fluorobiphenyl	9.09	172	292414	9.92	ng	-0.01
79) Terphenyl-d14	12.82	244	261589	10.07	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.03	128	103447	2.783	ng	98
37) 2-Methylnaphthalene	8.72	142	76892	3.203	ng	98
38) 1-Methylnaphthalene	8.82	142	82228m	3.536	ng	
52) Acenaphthene	9.79	154	111957	5.008	ng	95
55) Dibenzofuran	9.96	168	118614	3.651	ng	94
58) Fluorene	10.30	166	191960	8.324	ng	99
71) Phenanthrene	11.26	178	1262186	39.909	ng	100
72) Anthracene	11.31	178	324731	9.809	ng	98
73) Carbazole	11.46	167	176449	5.464	ng	97
75) Fluoranthene	12.44	202	1190474	35.134	ng	97
78) Pyrene	12.67	202	1095266	25.790	ng	99
81) Benzo(a)anthracene	13.85	228	501670	14.369	ng	98
83) Chrysene	13.89	228	430897	12.600	ng	96
86) Indeno(1,2,3-cd)pyrene	16.62	276	174833m	5.996	ng	
88) Benzo(b)fluoranthene	14.87	252	521268m	15.255	ng	
89) Benzo(k)fluoranthene	14.89	252	145657m	4.706	ng	
90) Benzo(a)pyrene	15.20	252	374171	12.380	ng	97
91) Dibenzo(a,h)anthracene	16.63	278	51822	2.009	ng	# 87
92) Benzo(g,h,i)perylene	17.02	276	158430	6.118	ng	95

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

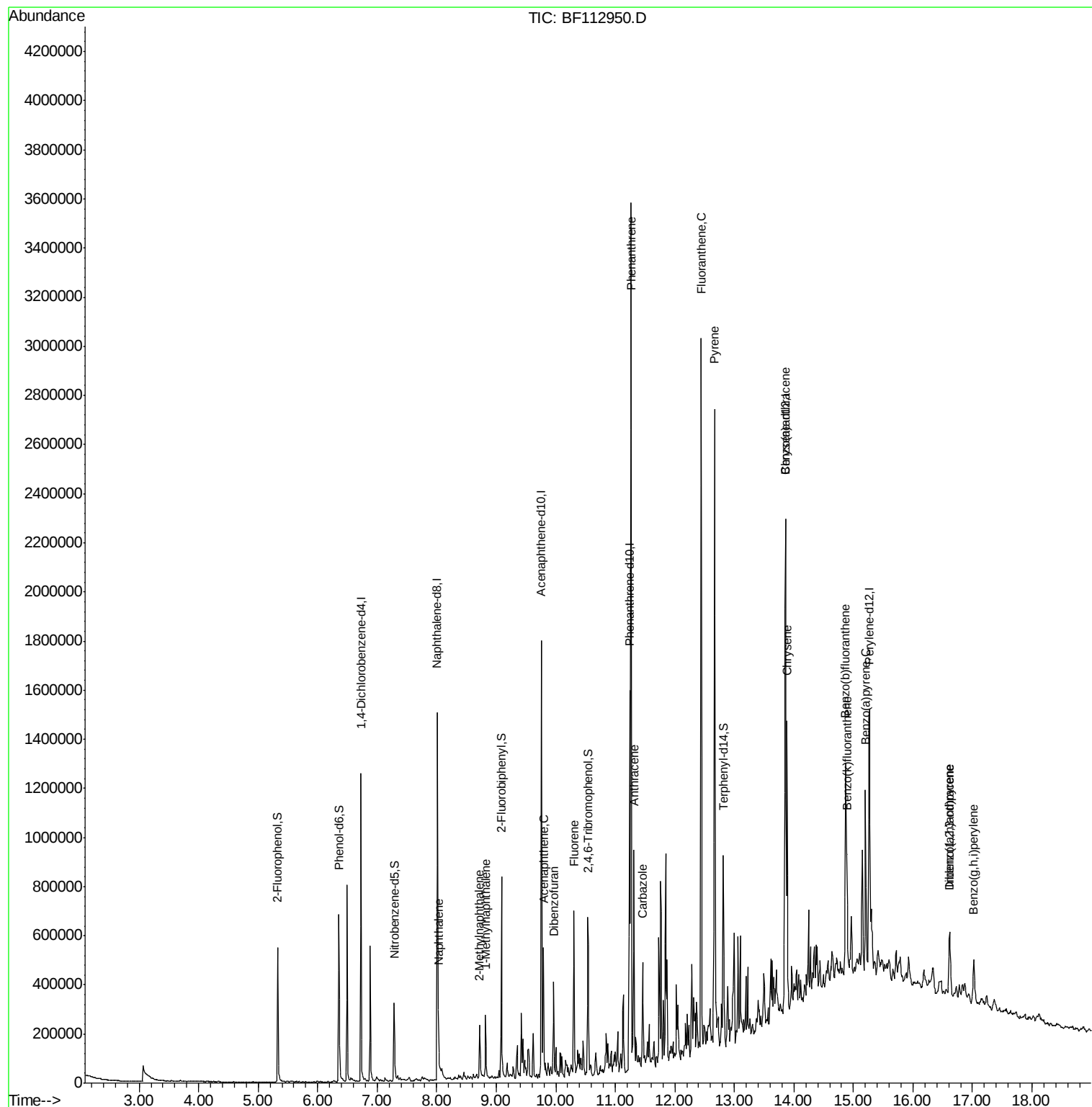
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030819\
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#1

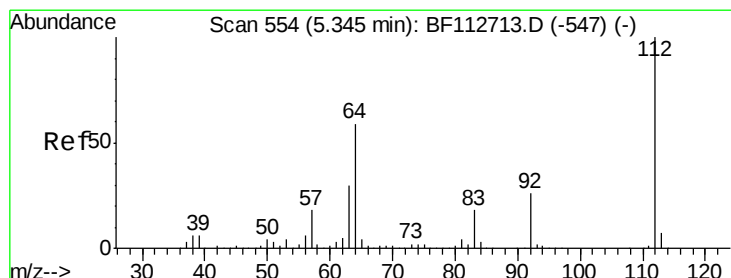
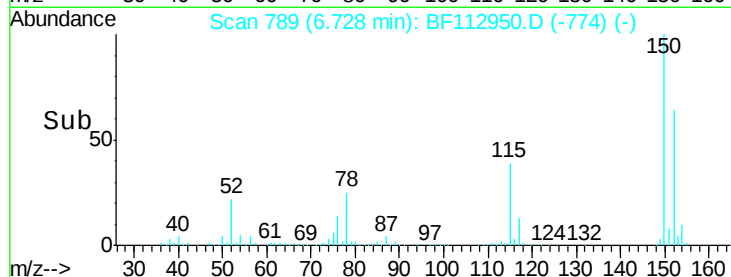
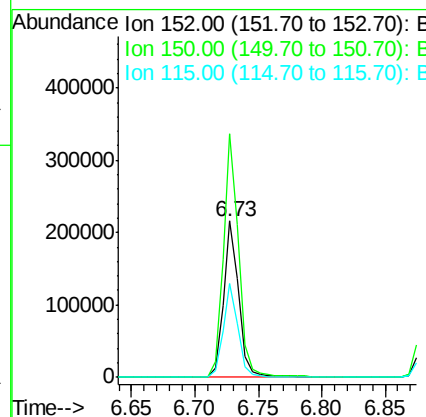
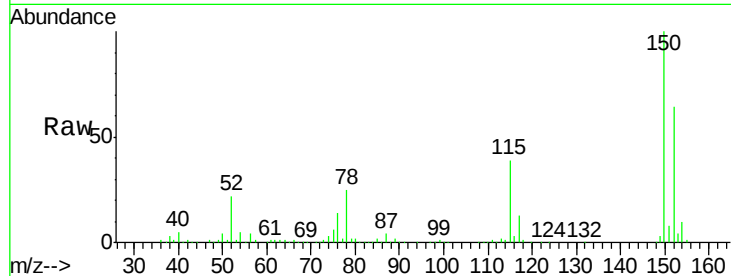
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.2	186.2
115	60.1	48.2	72.4

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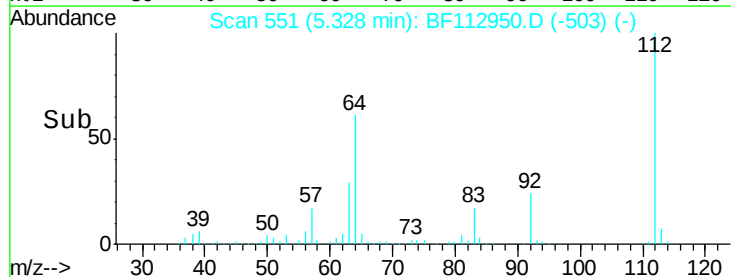
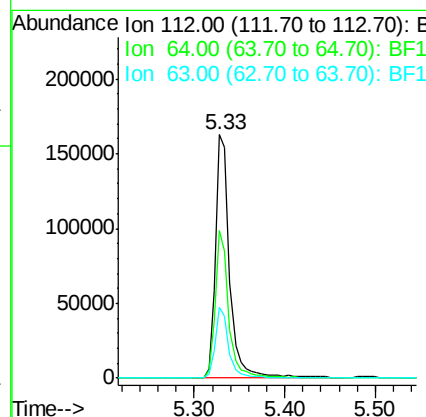
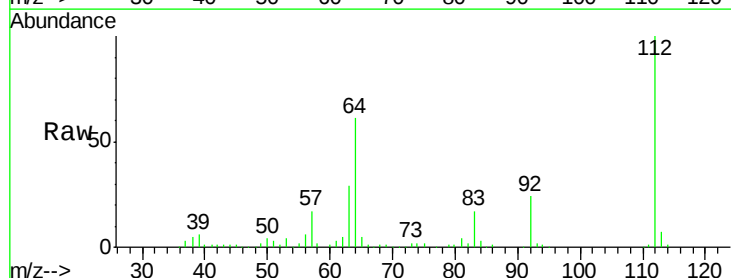
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#5

2-Fluorophenol
Concen: 15.325 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.02 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.9	47.6	71.4
63	29.0	24.4	36.6





#7

Phenol-d6

Concen: 16.426 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Instrument :

BNA_F

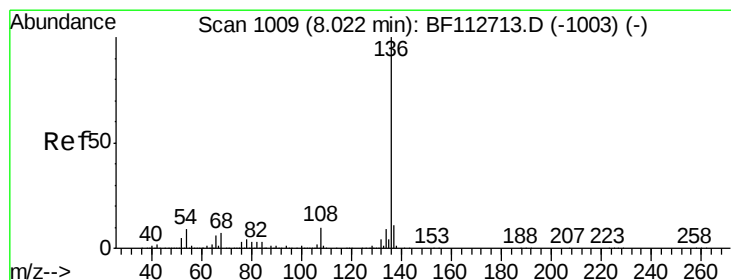
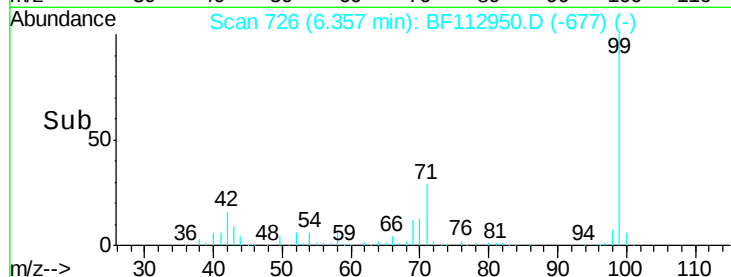
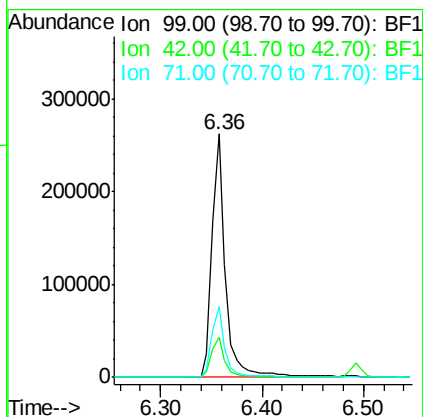
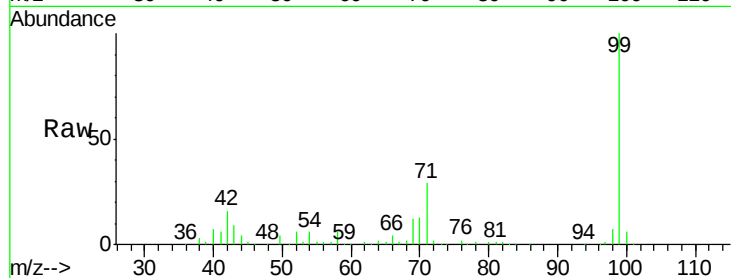
ClientSampleId :

OR-01-030719-A

Tgt Ion:	99	Resp:	243942
Ion Ratio	Lower	Upper	
99	100		
42	16.3	16.3	24.5
71	29.2	26.2	39.4

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#21

Naphthalene-d8

Concen: 20.000 ng

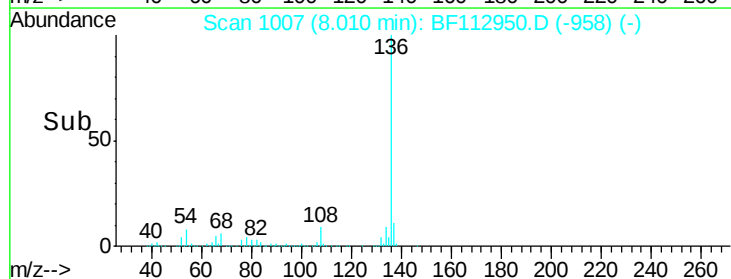
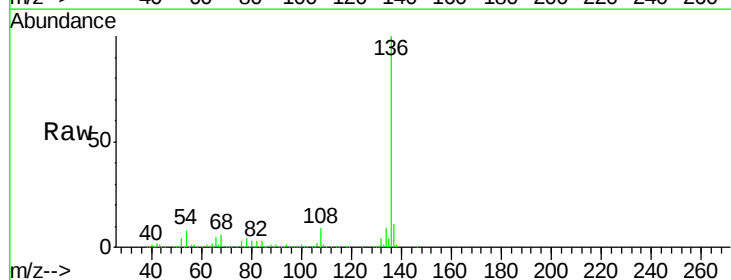
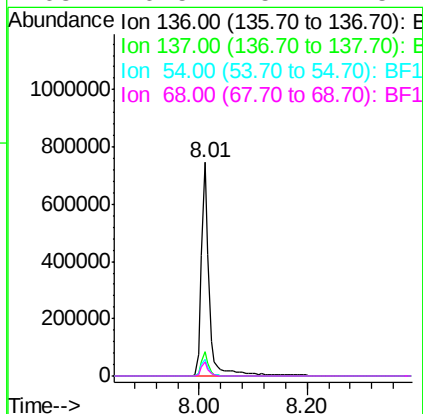
RT: 8.01 min Scan# 1007

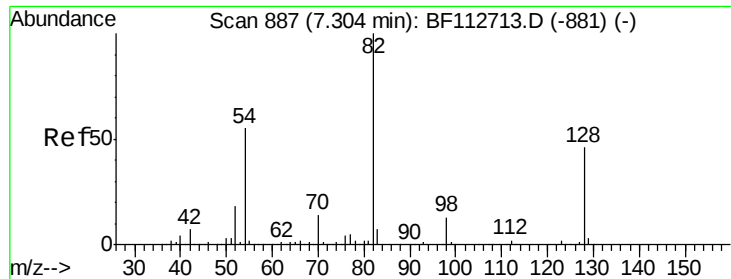
Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Tgt Ion:	136	Resp:	748768
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.1	7.3	10.9
68	6.5	5.4	8.2





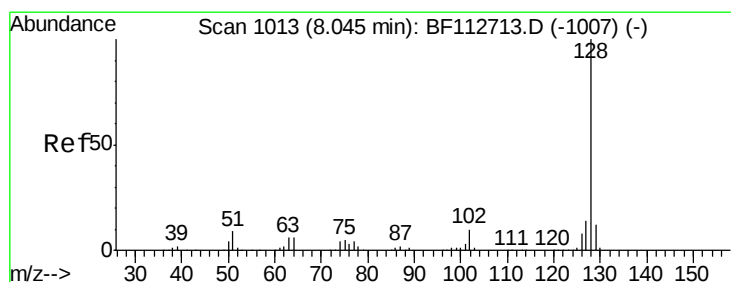
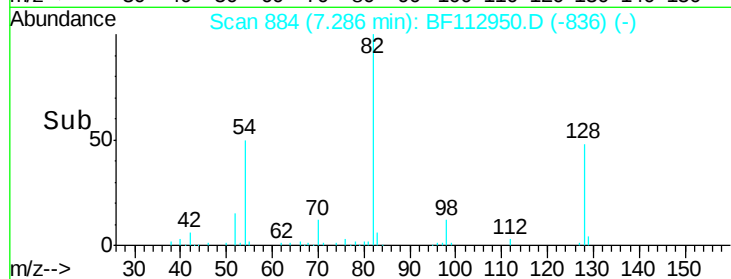
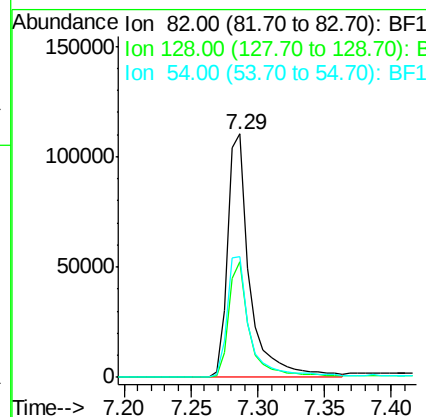
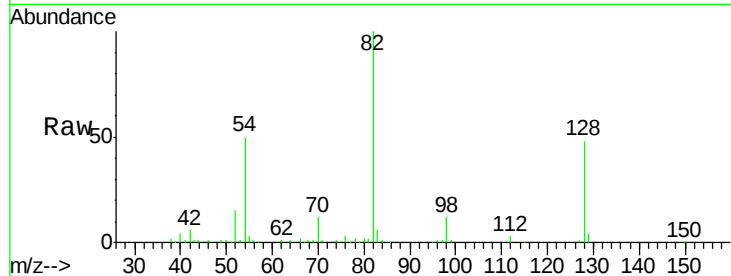
#23
Nitrobenzene-d5
Concen: 10.423 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.5	36.3	54.5
54	49.7	43.7	65.5

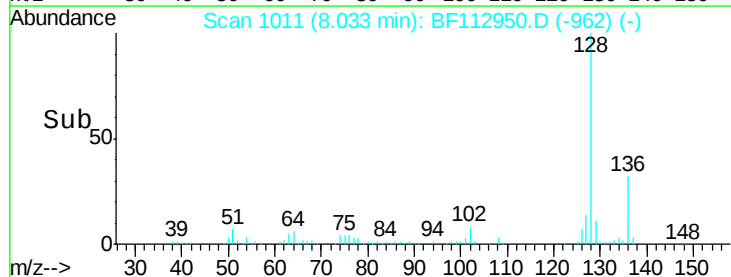
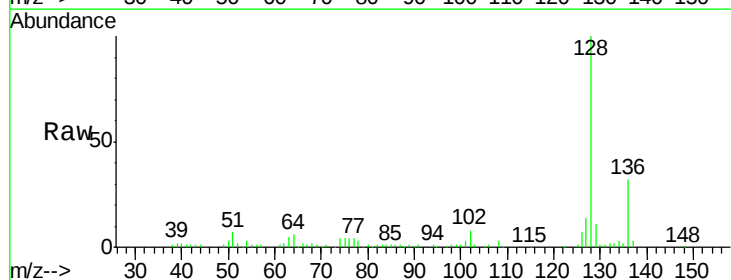
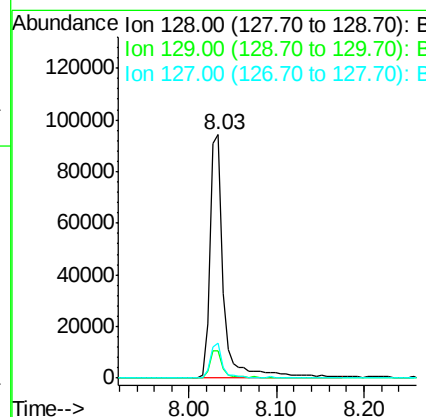
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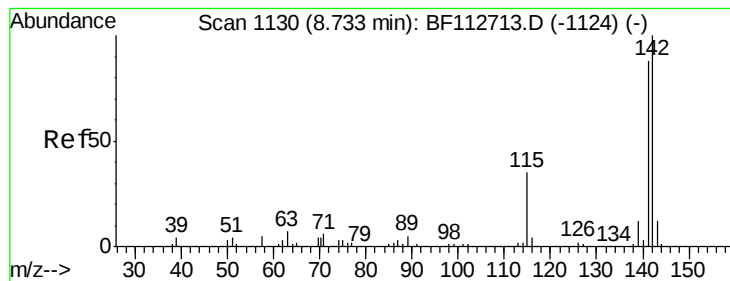
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#31
Naphthalene
Concen: 2.783 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.3	13.9
127	14.3	10.9	16.3





#37

2-Methylnaphthalene

Concen: 3.203 ng

RT: 8.72 min Scan# 1128

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Instrument :

BNA_F

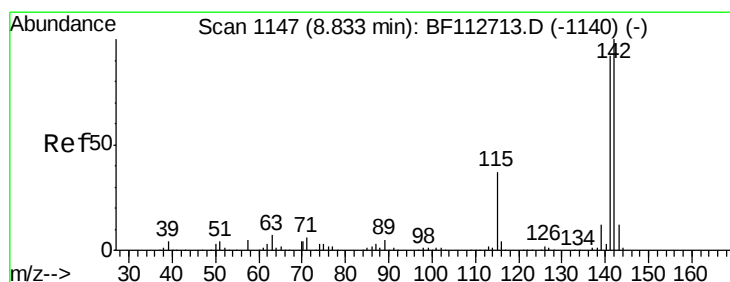
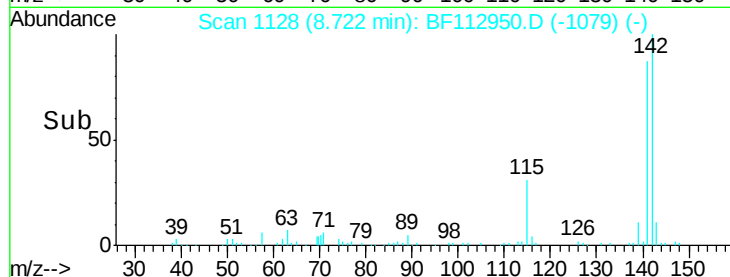
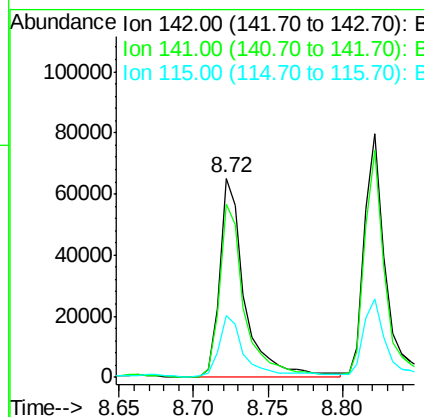
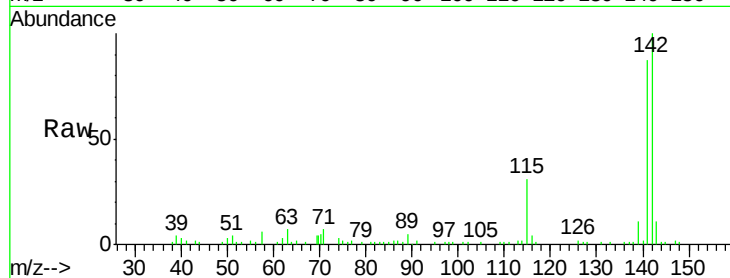
ClientSampleId :

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Tgt Ion:	142	Resp:	76892
Ion Ratio	Lower	Upper	
142	100		
141	87.1	70.3	105.5
115	31.0	27.8	41.6

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#38

1-Methylnaphthalene

Concen: 3.536 ng m

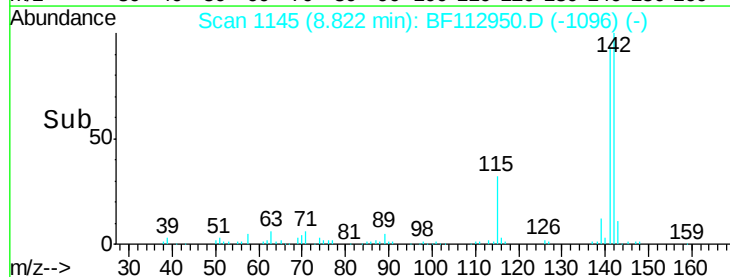
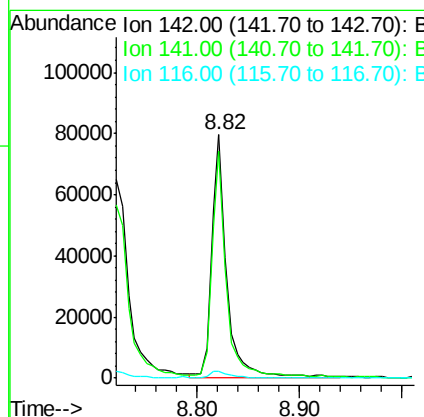
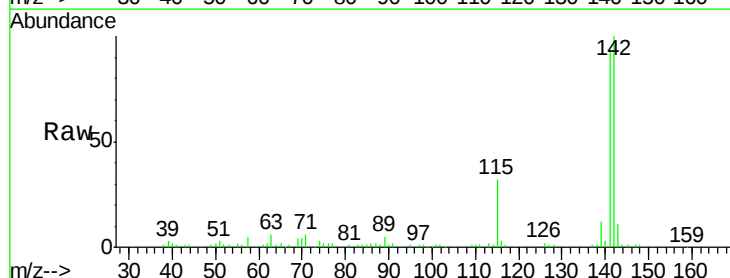
RT: 8.82 min Scan# 1145

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Tgt Ion:	142	Resp:	82228
Ion Ratio	Lower	Upper	
142	100		
141	93.0	73.7	110.5
116	2.9	3.1	4.7#





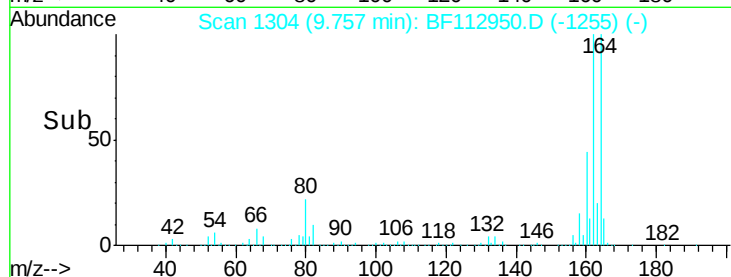
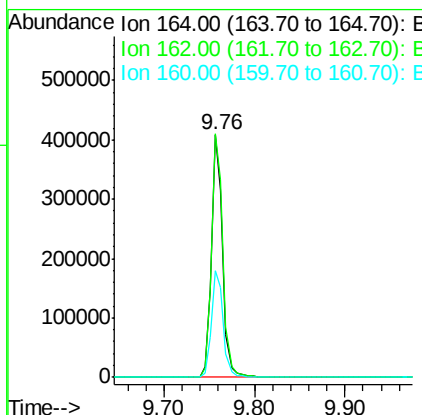
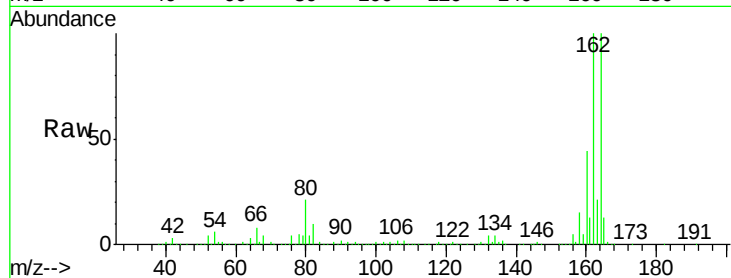
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	353557		
162	100.4	80.6	120.8	
160	44.2	36.0	54.0	

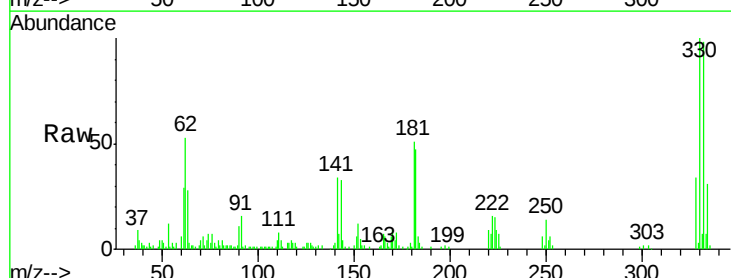
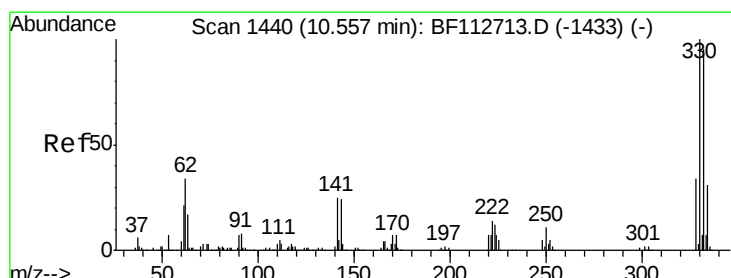
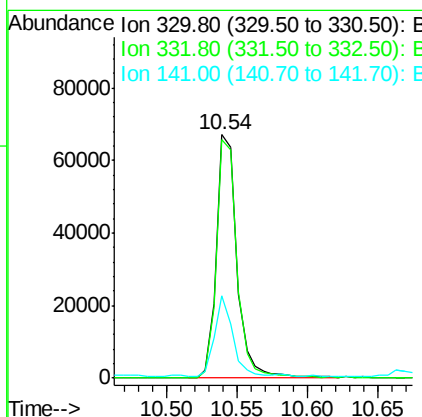
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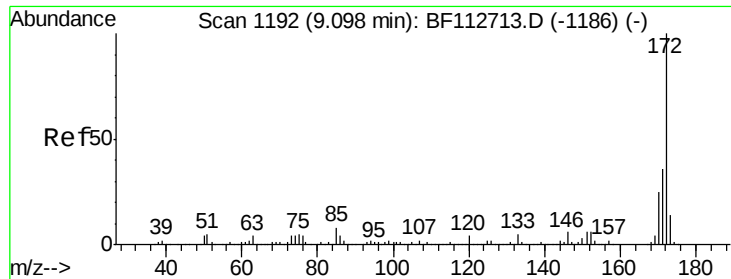
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#42
2,4,6-Tribromophenol
Concen: 18.323 ng
RT: 10.54 min Scan# 1437
Delta R.T. -0.02 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	68773		
332	97.2	76.2	114.4	
141	30.7	27.0	40.6	





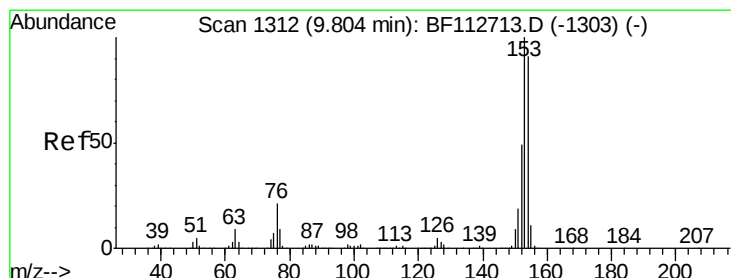
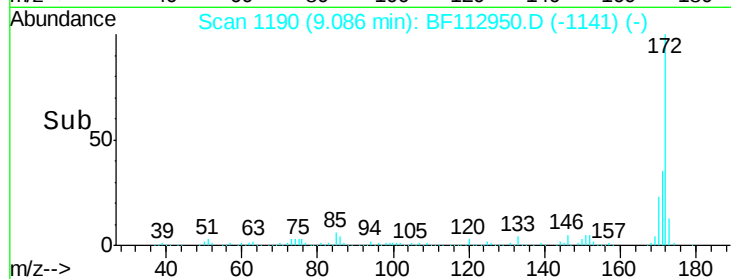
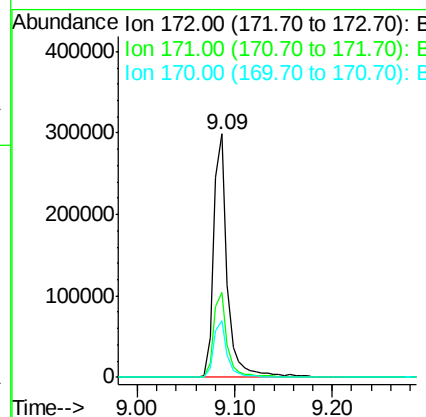
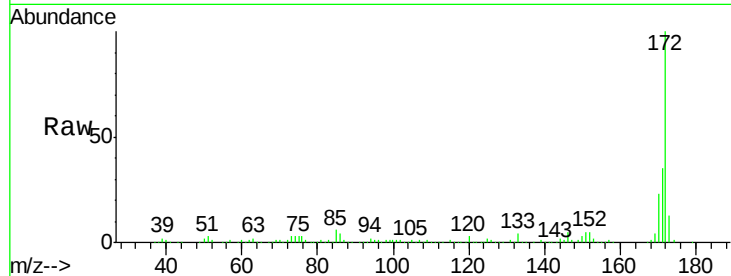
#45
2-Fluorobiphenyl
Concen: 9.919 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	292414		
171	35.1	29.0	43.4	
170	23.3	20.0	30.0	

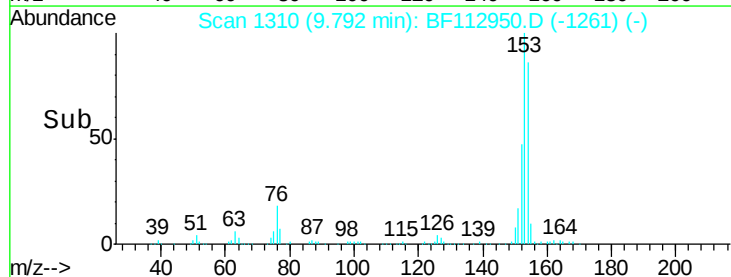
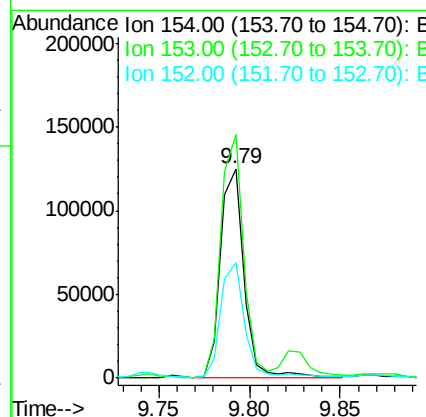
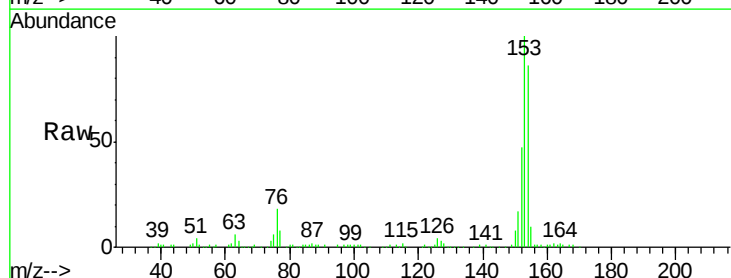
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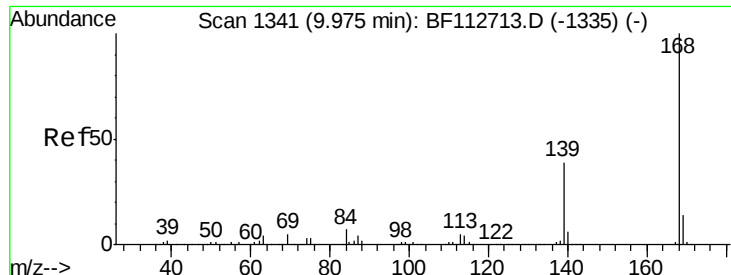
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#52
Acenaphthene
Concen: 5.008 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	111957		
153	116.1	87.8	131.8	
152	55.0	43.0	64.6	





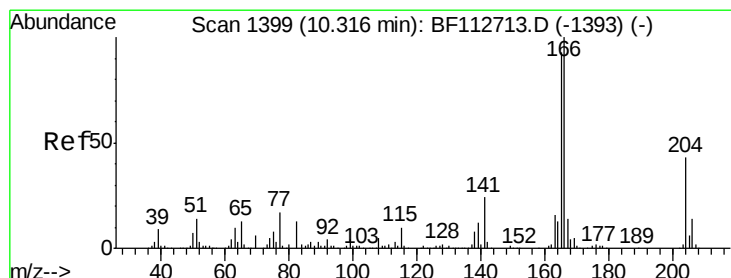
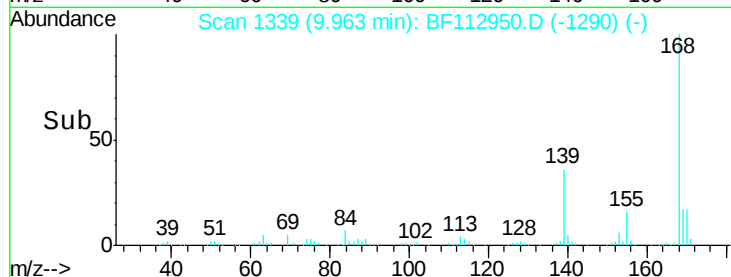
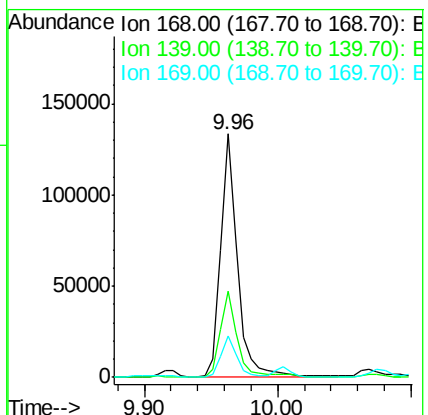
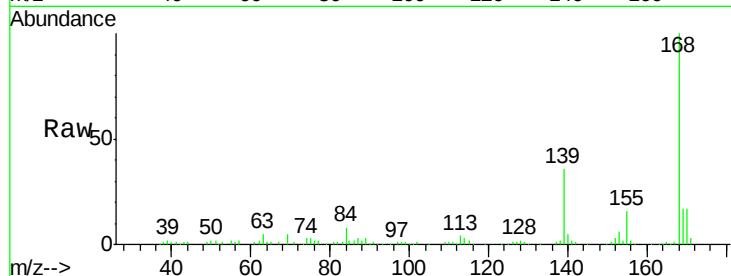
#55
Dibenzenofuran
Concen: 3.651 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	118614		
139	35.6	31.3	46.9	
169	16.8	11.3	16.9	

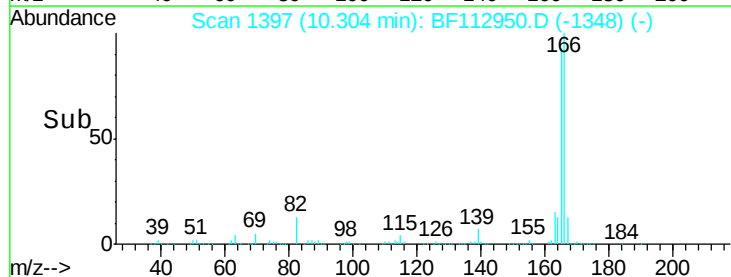
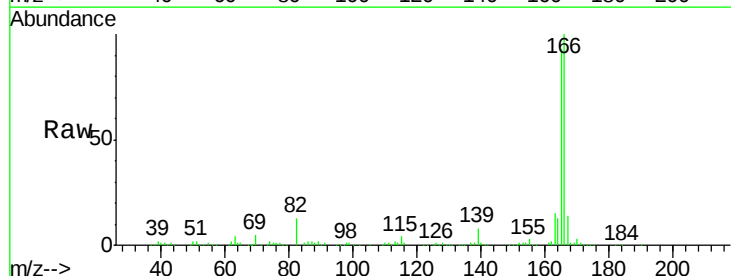
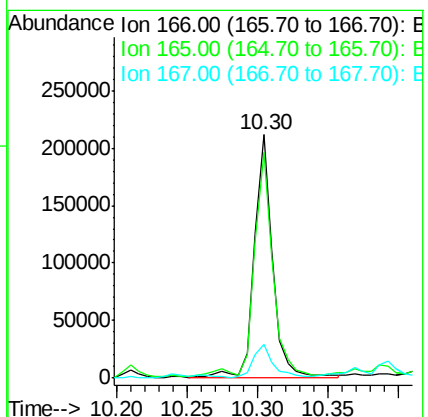
Manual Integrations
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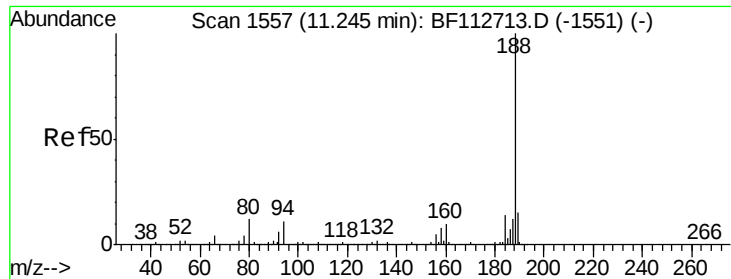
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#58
Fluorene
Concen: 8.324 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	191960		
165	92.8	74.7	112.1	
167	13.7	11.0	16.6	





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Instrument :

BNA_F

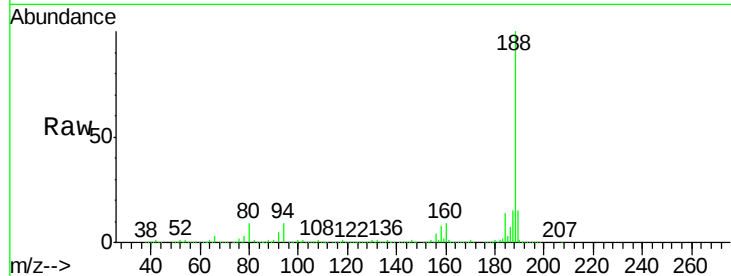
ClientSampleId :

OR-01-030719-A

Tgt Ion:	188	Resp:	635655
Ion Ratio	Lower	Upper	
188	100		
94	9.1	9.0	13.4
80	9.3	9.2	13.8

Manual Integrations
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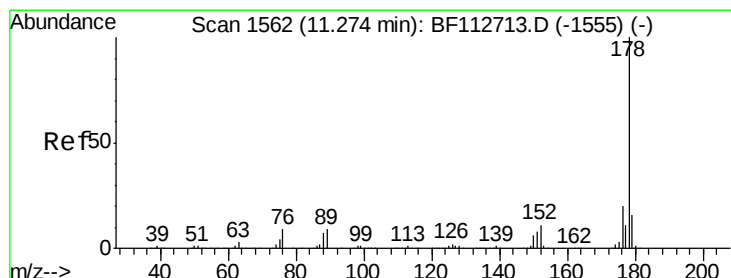
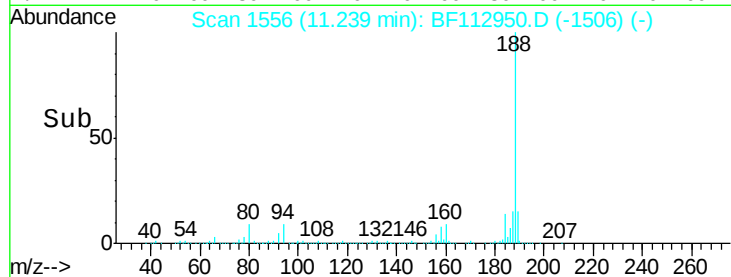
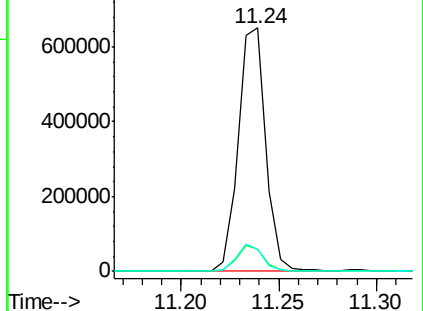
Sohil
3/11/2019 9:32:20 AM



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: 39.909 ng

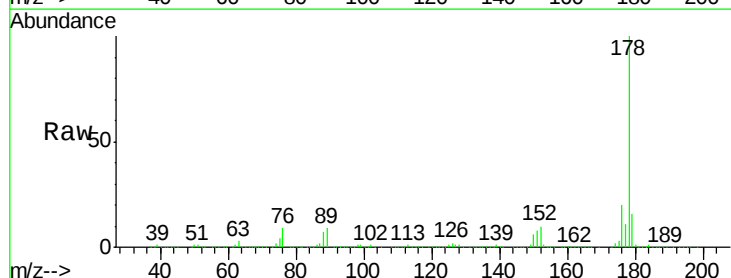
RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

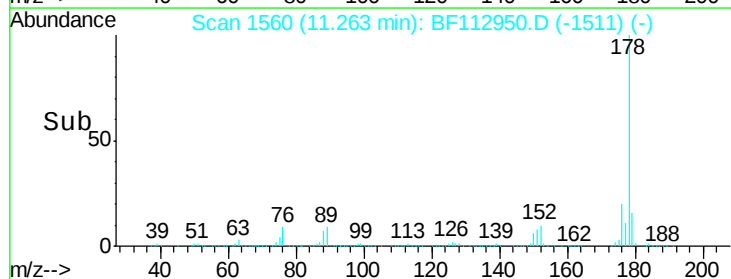
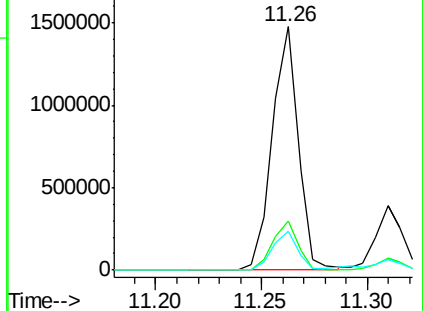
Tgt Ion:	178	Resp:	1262186
Ion Ratio	Lower	Upper	
178	100		
176	20.3	16.3	24.5
179	16.1	12.7	19.1

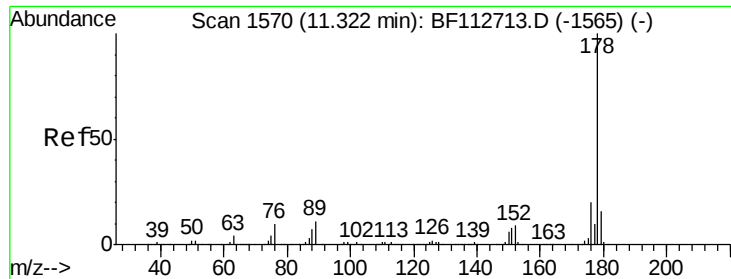


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





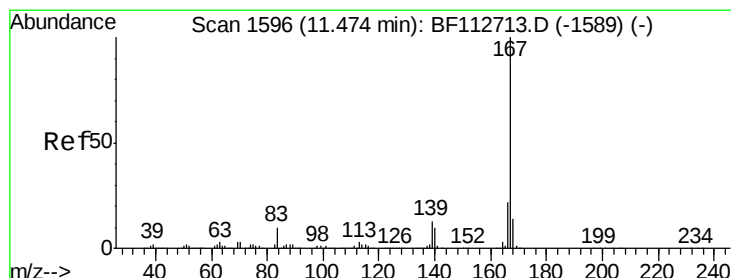
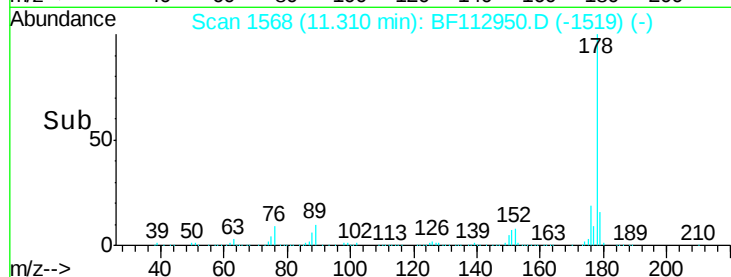
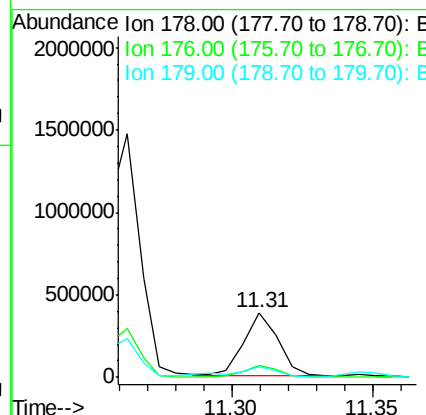
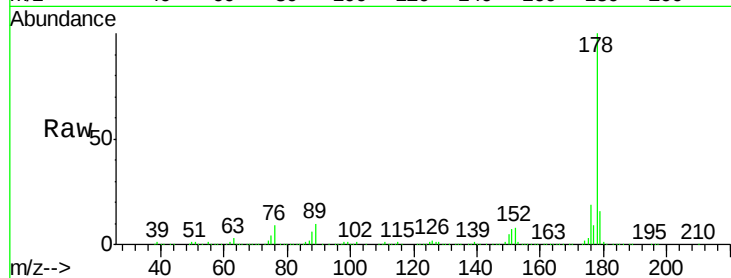
#72
 Anthracene
 Concen: 9.809 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF112950.D
 Acq: 8 Mar 2019 17:55

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-030719-A

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.6
179	15.9	13.0	19.6

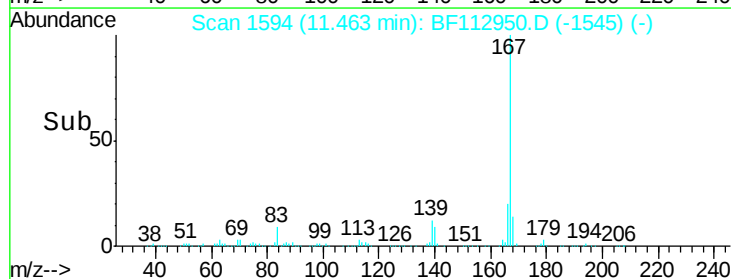
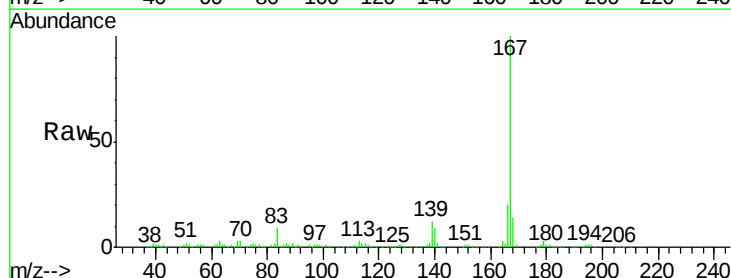
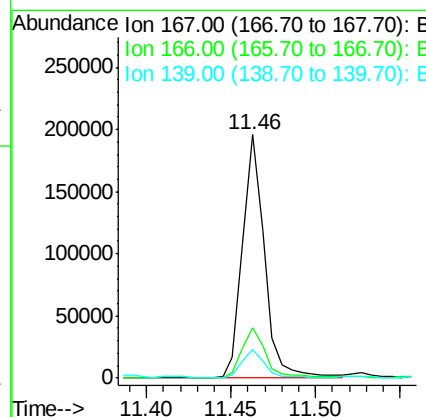
Manual Integrations
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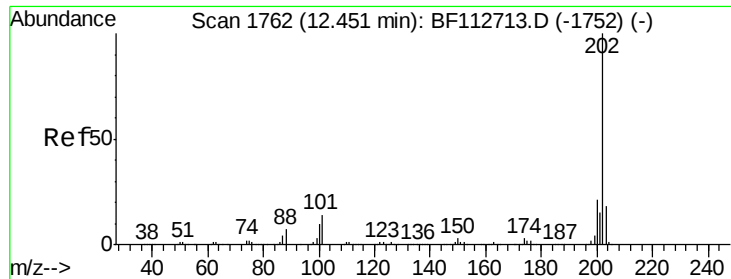
Sohil
 3/11/2019 9:32:20 AM



#73
 Carbazole
 Concen: 5.464 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF112950.D
 Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.5	17.5	26.3
139	11.9	10.8	16.2





#75

Fluoranthene

Concen: 35.134 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Instrument :

BNA_F

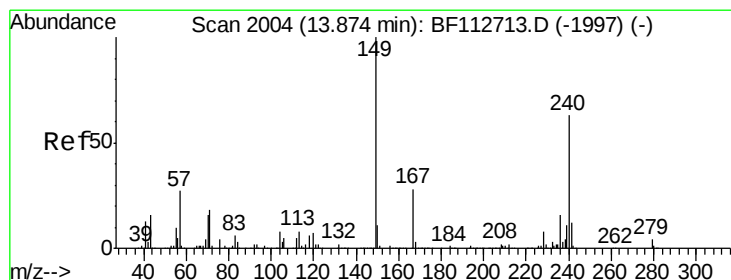
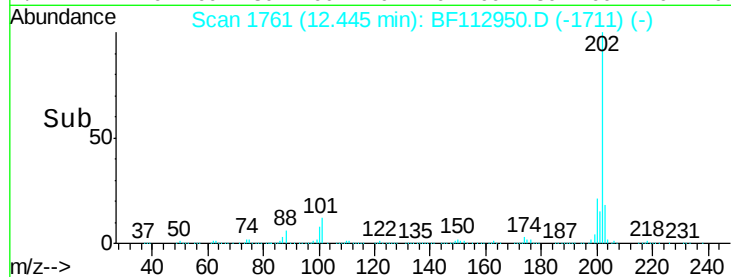
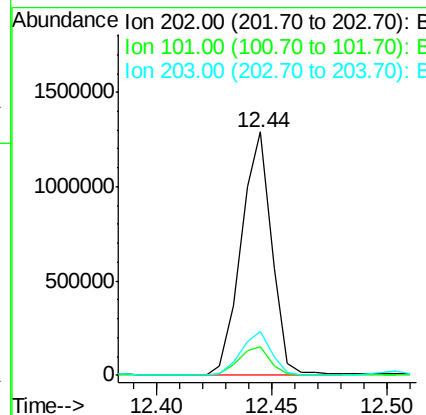
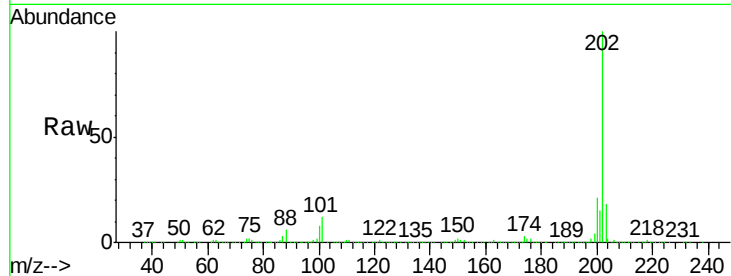
ClientSampleId :

OR-01-030719-A

Tgt	Ion	202	Resp	1190474
Ion	Ratio	Lower	Upper	
202	100			
101	11.5	0.0	33.8	
203	18.3	0.0	38.4	

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#76

Chrysene-d12

Concen: 20.000 ng

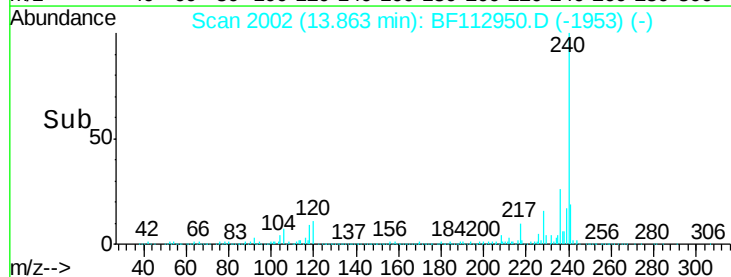
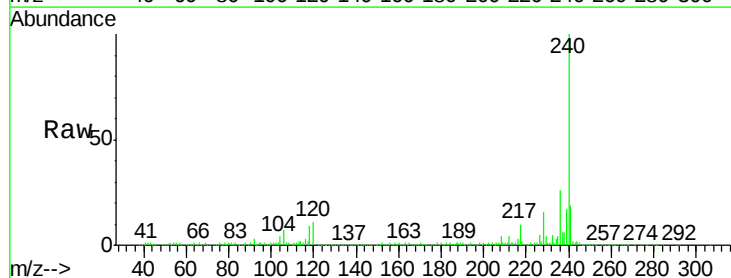
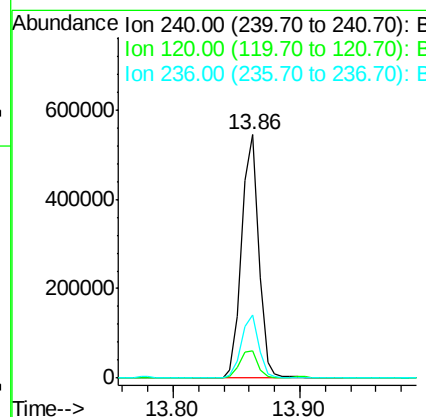
RT: 13.86 min Scan# 2002

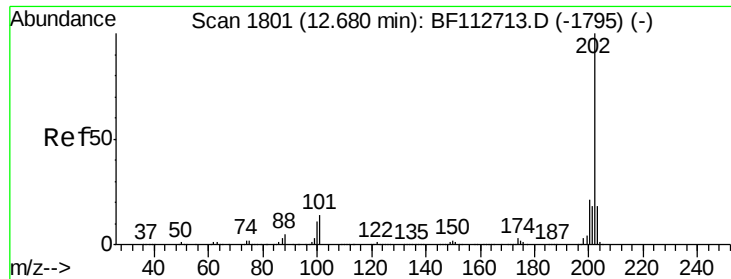
Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Tgt	Ion	240	Resp	503763
Ion	Ratio	Lower	Upper	
240	100			
120	11.5	8.9	13.3	
236	25.9	20.7	31.1	





#78

Pyrene

Concen: 25.790 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Instrument :

BNA_F

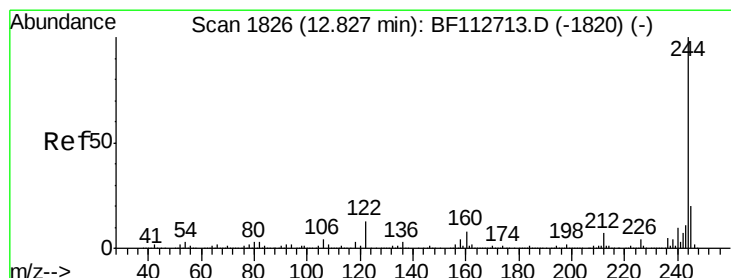
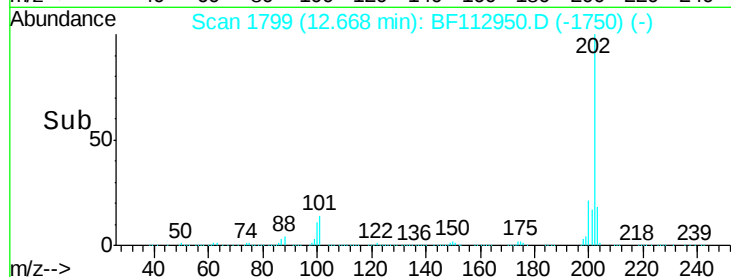
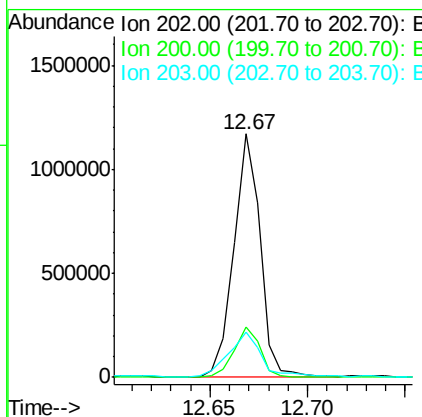
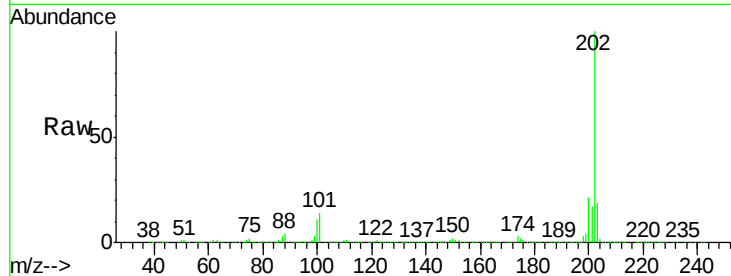
ClientSampleId :

OR-01-030719-A

Tgt Ion:	202	Resp:	1095266
Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	18.5	14.4	21.6

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#79

Terphenyl-d14

Concen: 10.066 ng

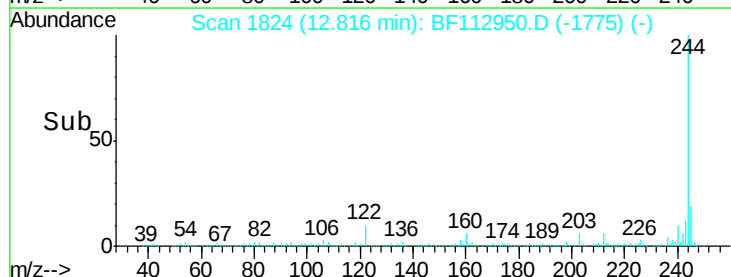
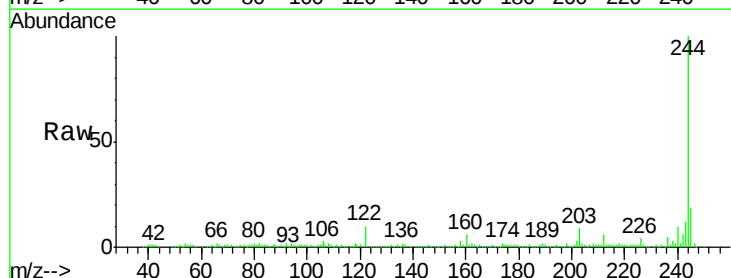
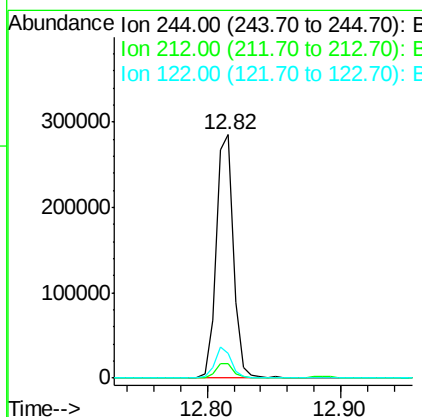
RT: 12.82 min Scan# 1824

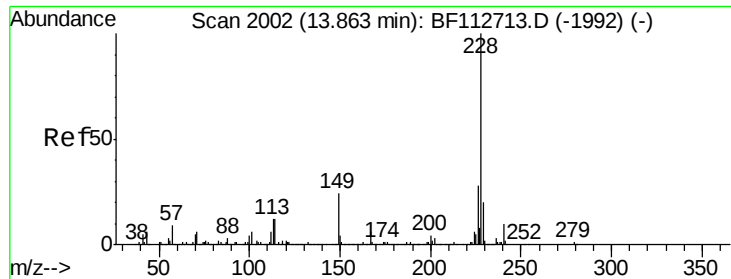
Delta R.T. -0.01 min

Lab File: BF112950.D

Acq: 8 Mar 2019 17:55

Tgt Ion:	244	Resp:	261589
Ion	Ratio	Lower	Upper
244	100		
212	6.0	5.6	8.4
122	10.0	10.5	15.7#





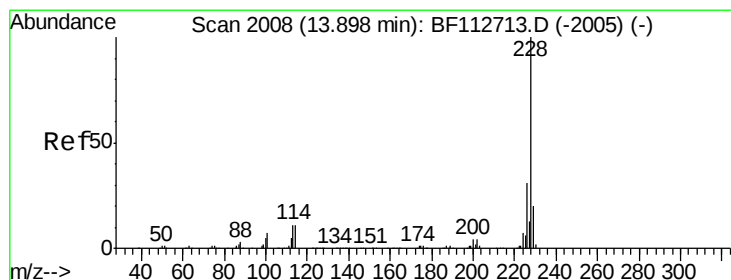
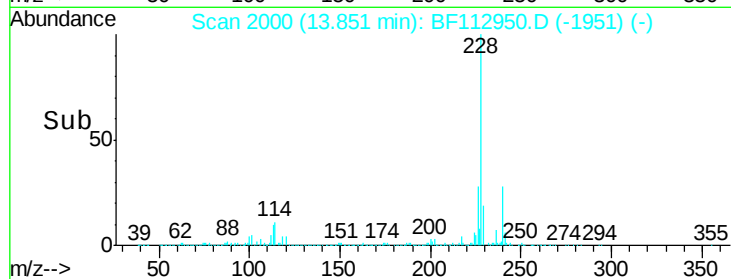
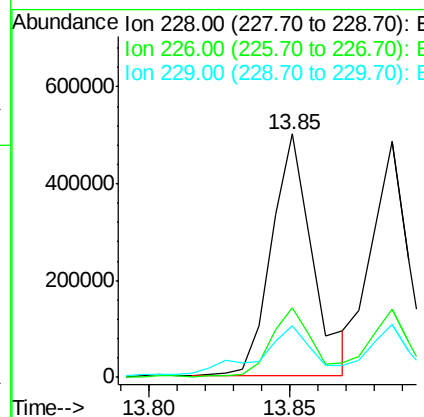
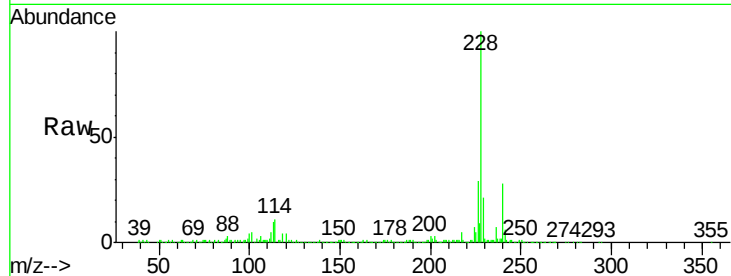
#81
Benzo(a)anthracene
Concen: 14.369 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	21.3	16.0	24.0

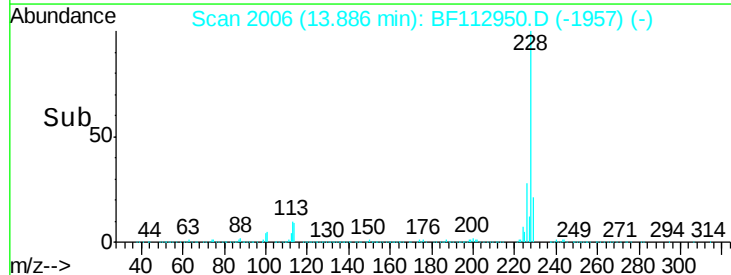
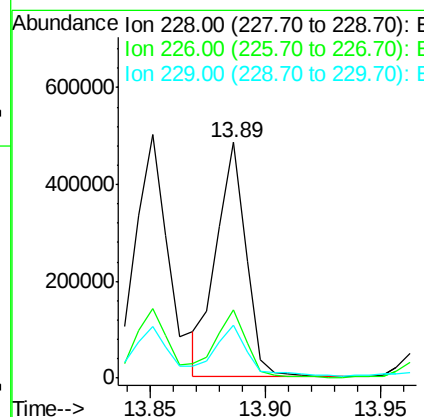
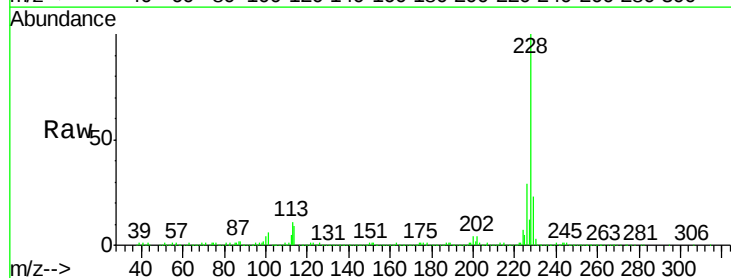
Manual Integrations
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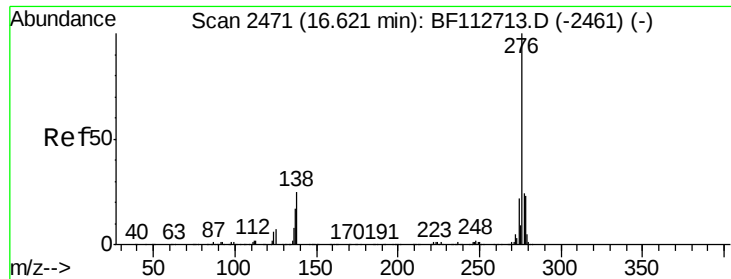
Sohil
3/11/2019 9:32:20 AM



#83
Chrysene
Concen: 12.600 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	24.9	37.3
229	22.6	16.3	24.5





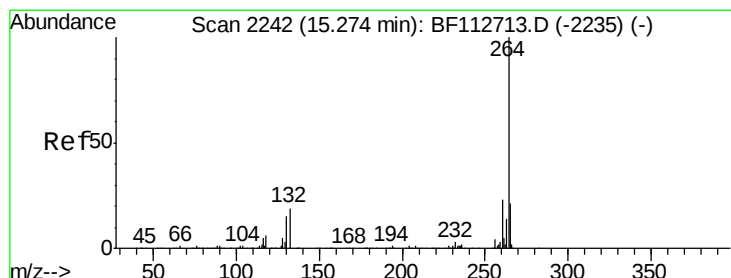
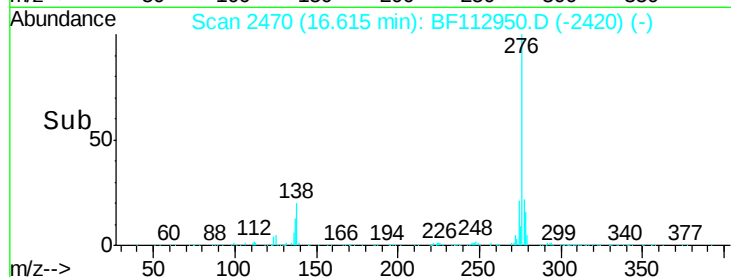
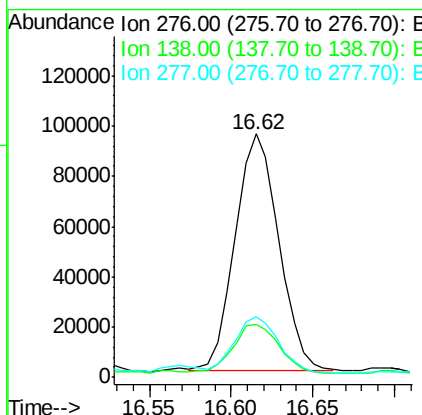
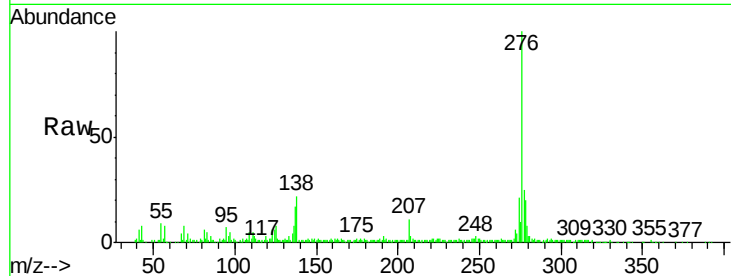
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.996 ng m
 RT: 16.62 min Scan# 2470
 Delta R.T. -0.01 min
 Lab File: BF112950.D
 Acq: 8 Mar 2019 17:55

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-030719-A

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	174833		
138	5.0	23.2	34.8#	
277	5.1	19.9	29.9#	

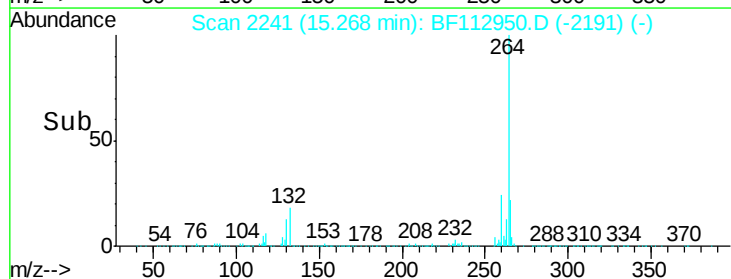
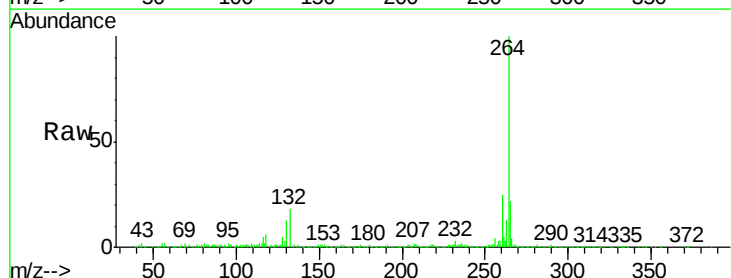
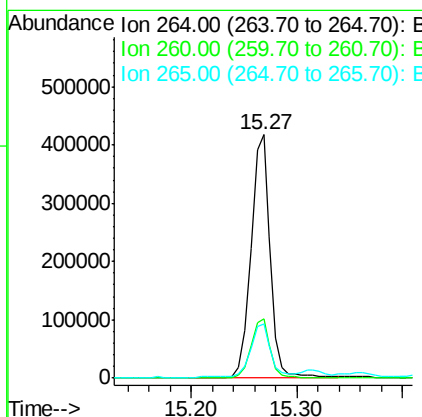
Manual Integrations
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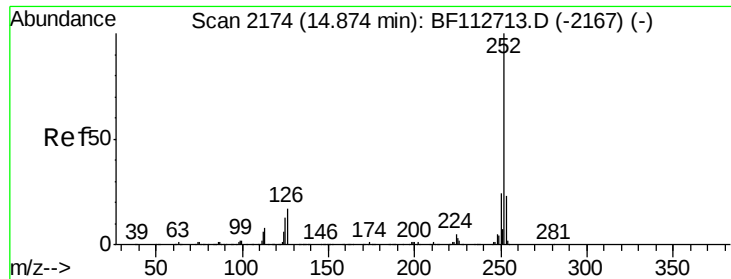
Sohil
 3/11/2019 9:32:20 AM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2241
 Delta R.T. -0.01 min
 Lab File: BF112950.D
 Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	528263		
260	24.6	18.7	28.1	
265	22.0	17.2	25.8	





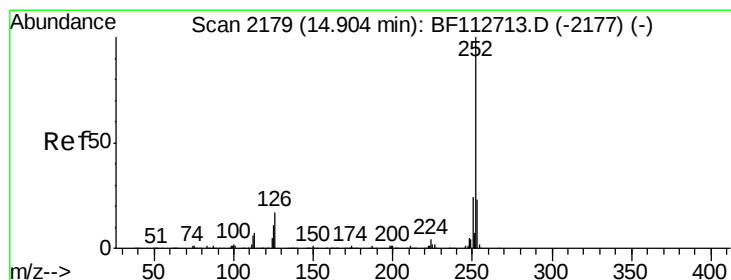
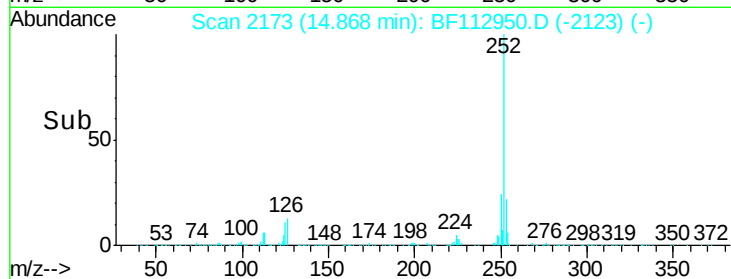
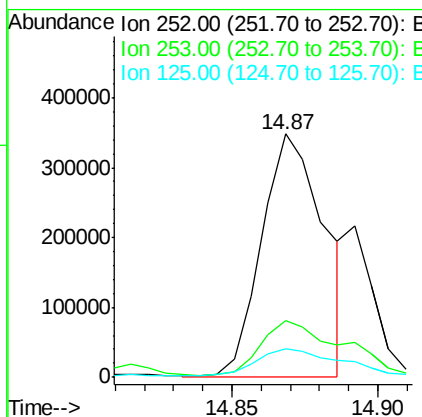
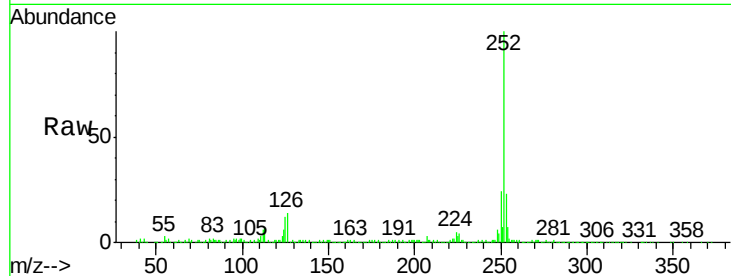
#88
Benzo(b)fluoranthene
Concen: 15.255 ng m
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	12.0	10.2	15.2

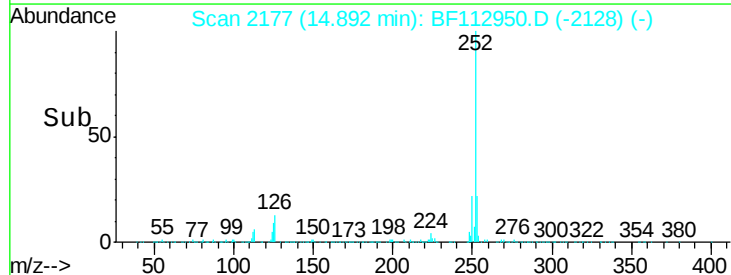
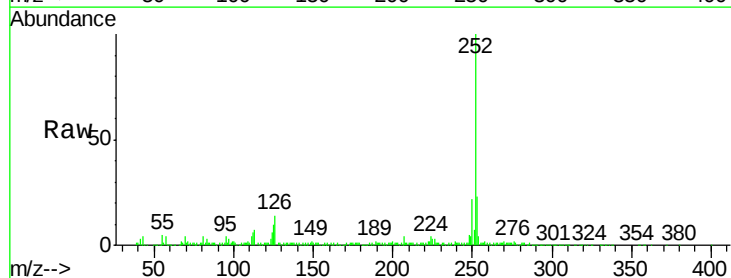
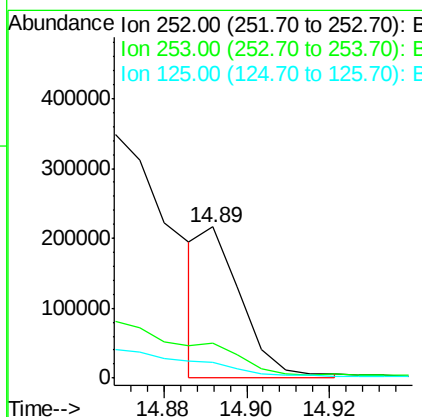
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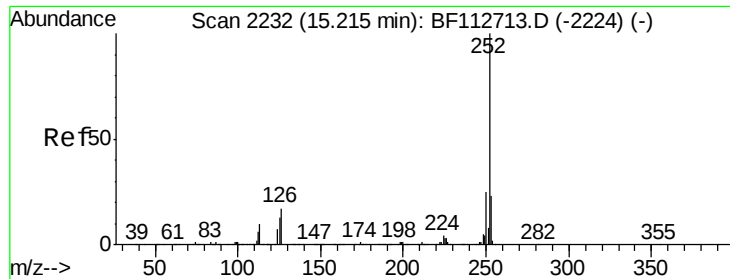
Sohil
3/11/2019 9:32:20 AM



#89
Benzo(k)fluoranthene
Concen: 4.706 ng m
RT: 14.89 min Scan# 2177
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	10.4	9.8	14.6





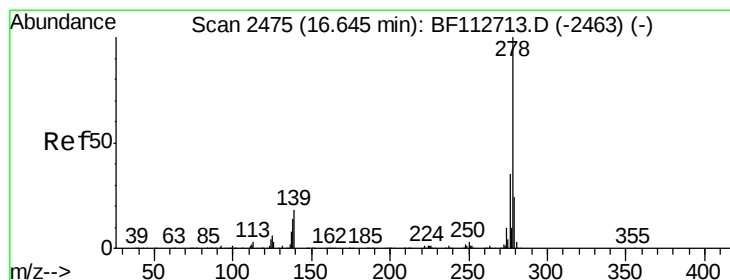
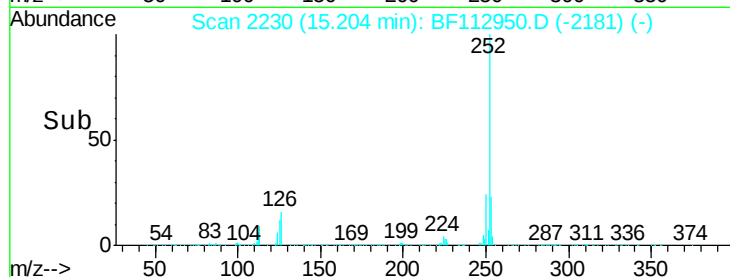
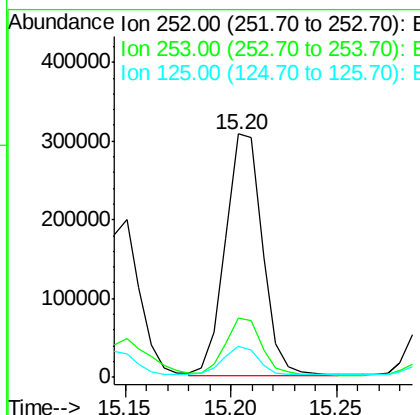
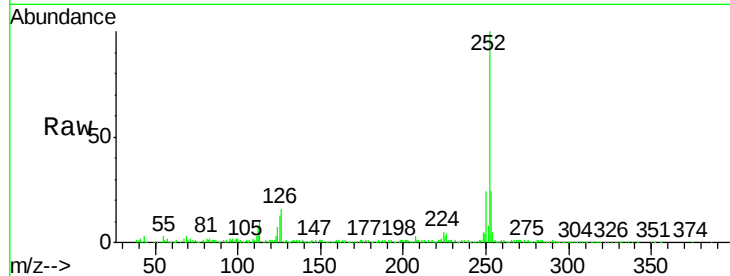
#90
Benzo(a)pyrene
Concen: 12.380 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Instrument :
BNA_F
ClientSampleId :
OR-01-030719-A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.0	27.0
125	12.9	10.7	16.1

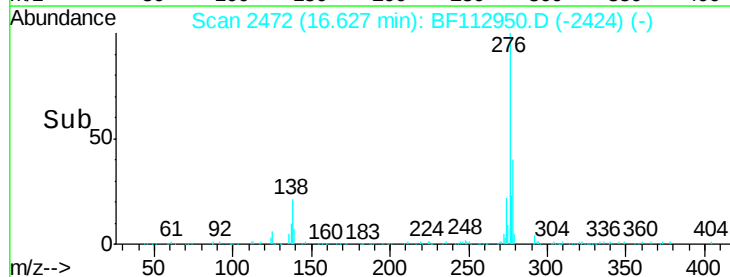
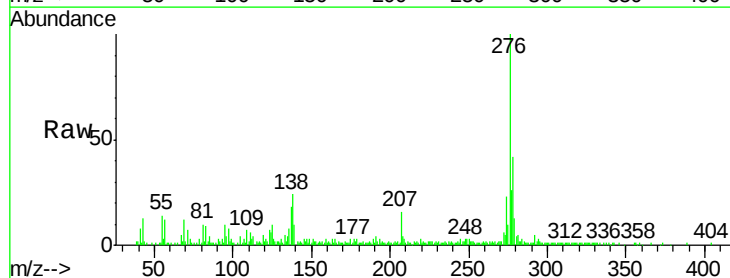
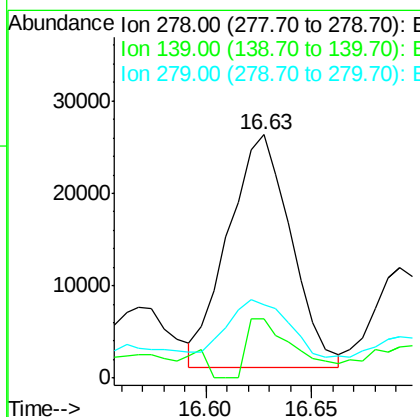
Manual Integrations
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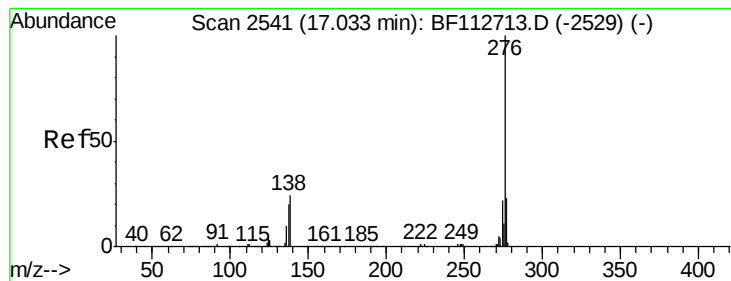
Sohil
3/11/2019 9:32:20 AM



#91
Dibenzo(a,h)anthracene
Concen: 2.009 ng
RT: 16.63 min Scan# 2472
Delta R.T. -0.02 min
Lab File: BF112950.D
Acq: 8 Mar 2019 17:55

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.6	14.3	21.5#
279	30.2	19.4	29.0#





#92

Benzo(g,h,i)perylene

Concen: 6.118 ng

RT: 17.02 min Scan# 2539

Delta R.T. -0.01 min

Lab File: BF112950.D

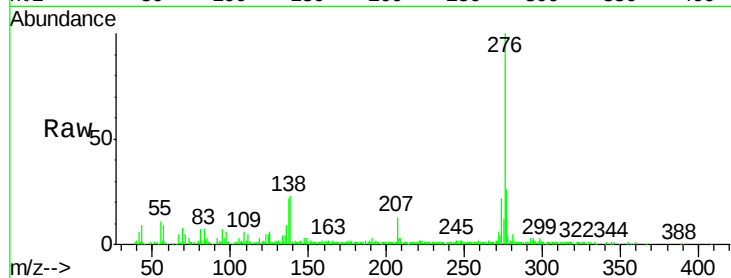
Acq: 8 Mar 2019 17:55

Instrument :

BNA_F

ClientSampleId :

OR-01-030719-A



Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.4	18.6	27.8
138	22.9	19.4	29.0

Manual Integrations
APPROVED

Sohil
3/11/2019 9:32:20 AM

