

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\
 Data File : BF118768.D
 Acq On : 30 Jan 2020 22:58
 Operator : CG/JU
 Sample : L1307-03 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-SOUTH-SIDE

Manual Integrations
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Quant Time: Jan 31 00:20:18 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 27 14:24:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	232883	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	816173	20.00	ng	-0.02
39) Acenaphthene-d10	9.88	164	399654	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	668346	20.00	ng	-0.02
76) Chrysene-d12	14.01	240	623249	20.00	ng	-0.01
87) Perylene-d12	15.47	264	735906	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	668821	53.34	ng	-0.03
7) Phenol-d6	6.46	99	803612	49.31	ng	-0.03
23) Nitrobenzene-d5	7.40	82	508364	34.84	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	230925	49.96	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	980460	40.32	ng	-0.02
79) Terphenyl-d14	12.95	244	1116485	39.07	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.15	128	181855	4.932	ng	97
37) 2-Methylnaphthalene	8.83	142	70748	2.719	ng	98
38) 1-Methylnaphthalene	8.93	142	56941	2.303	ng	99
49) Acenaphthylene	9.74	152	124832	3.822	ng	98
52) Acenaphthene	9.91	154	139980	6.410	ng	99
55) Dibenzofuran	10.08	168	145652	4.813	ng	95
58) Fluorene	10.43	166	167452	7.048	ng	98
71) Phenanthrene	11.39	178	1562390	48.455	ng	98
72) Anthracene	11.44	178	486235	15.240	ng	98
73) Carbazole	11.59	167	156281	5.340	ng	98
75) Fluoranthene	12.58	202	2169860	63.804	ng	100
78) Pyrene	12.81	202	2141702	50.616	ng	99
81) Benzo(a)anthracene	14.00	228	1247770	33.281	ng	97
83) Chrysene	14.03	228	1082654	30.131	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	561062	17.970	ng	95
88) Benzo(b)fluoranthene	15.05	252	1588430m	34.339	ng	
89) Benzo(k)fluoranthene	15.07	252	460040m	10.735	ng	
90) Benzo(a)pyrene	15.42	252	1113765	27.912	ng	99
91) Dibenzo(a,h)anthracene	16.94	278	159752	4.526	ng	# 88
92) Benzo(a,h,i)perylene	17.37	276	493104	14.388	ng	97

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

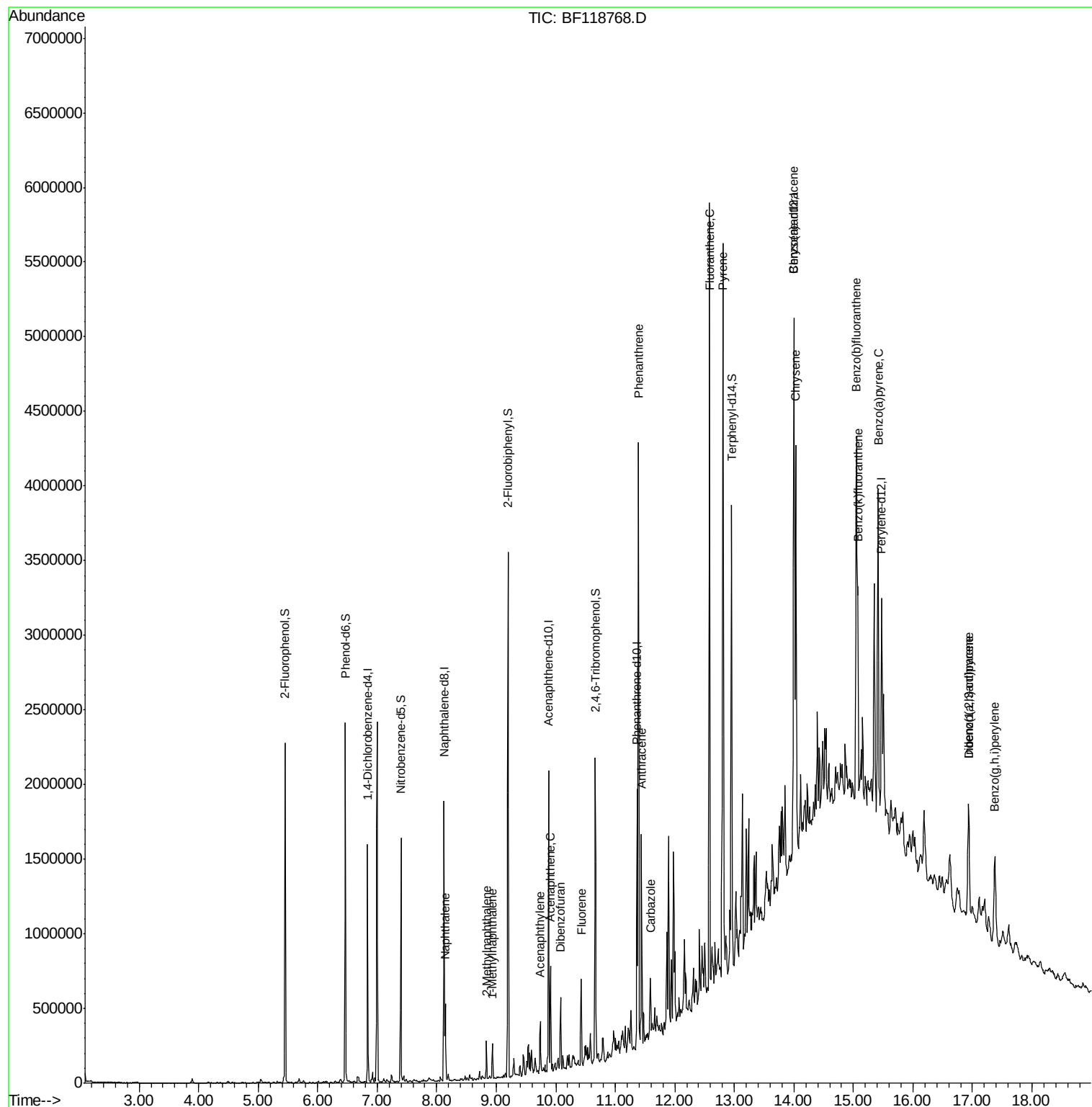
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\
Data File : BF118768.D
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ALS Vial : 21 Sample Multiplier: 1

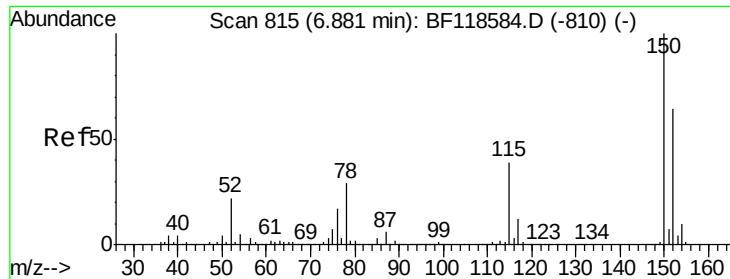
Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

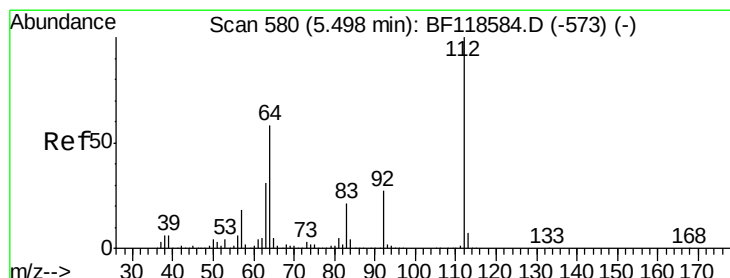
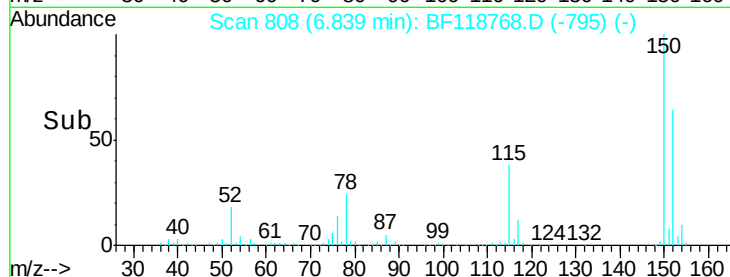
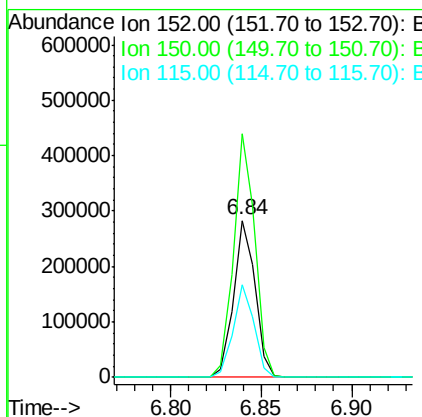
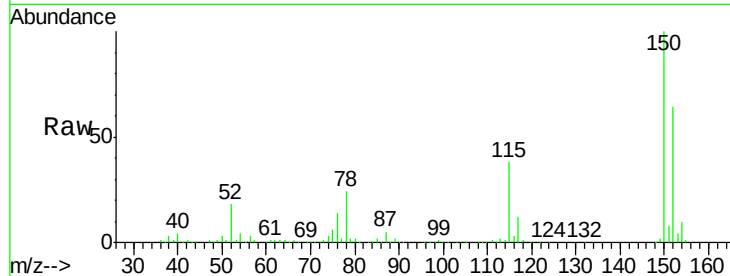
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	123.7	185.5
115	59.2	45.1	67.7

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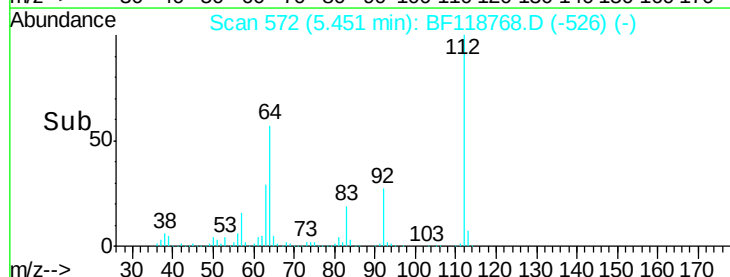
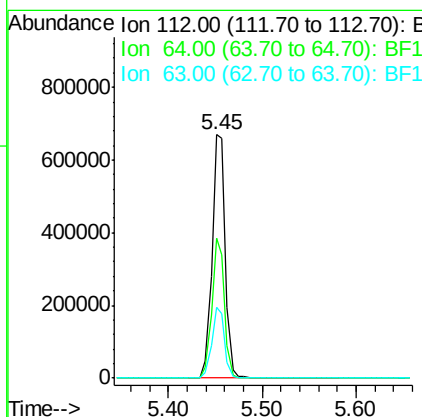
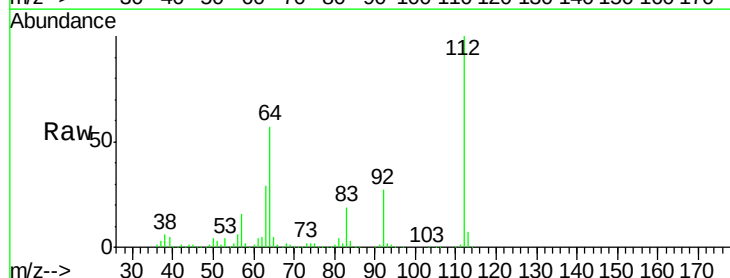
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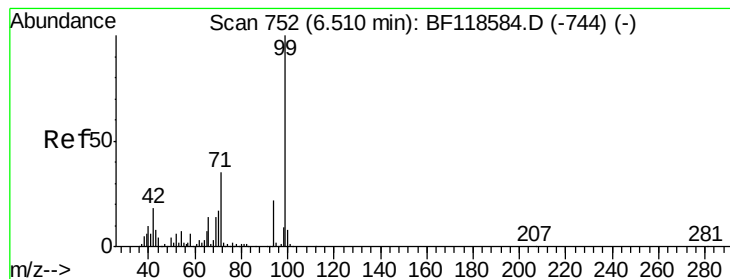


#5

2-Fluorophenol
Concen: 53.339 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.03 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	42.4	63.6
63	28.9	21.7	32.5





#7

Phenol-d6

Concen: 49.309 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.03 min

Lab File: BF118768.D

Acq: 30 Jan 2020 22:58

Instrument :

BNA_F

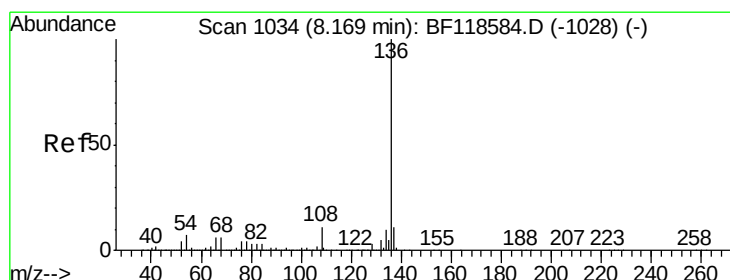
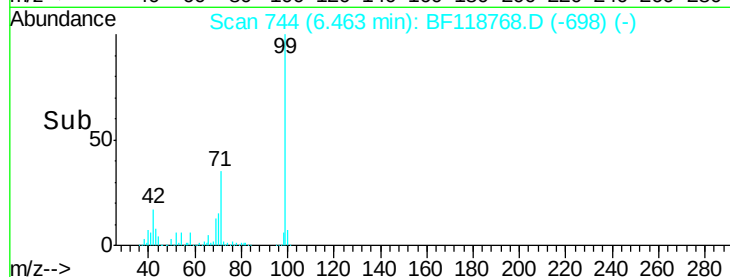
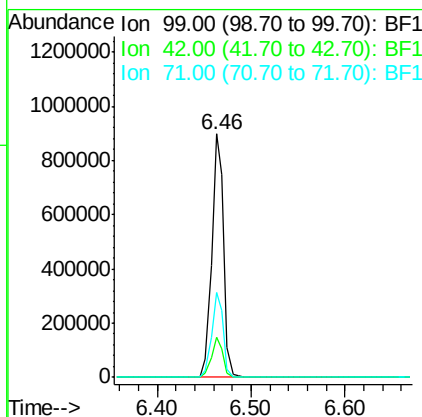
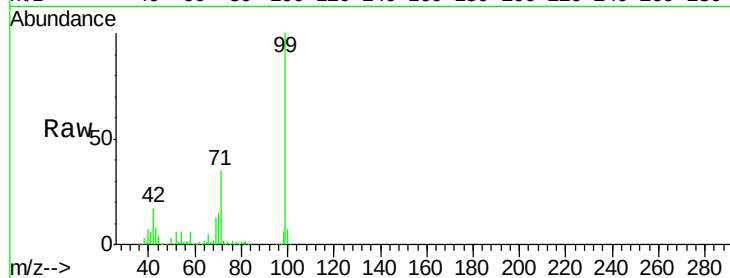
ClientSampleId :

SP-SOUTH-SIDE

Tot Ion:	99	Resp:	803612
Ion Ratio	Lower	Upper	
99	100		
42	16.6	13.1	19.7
71	35.1	28.4	42.6

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#21

Naphthalene-d8

Concen: 20.000 ng

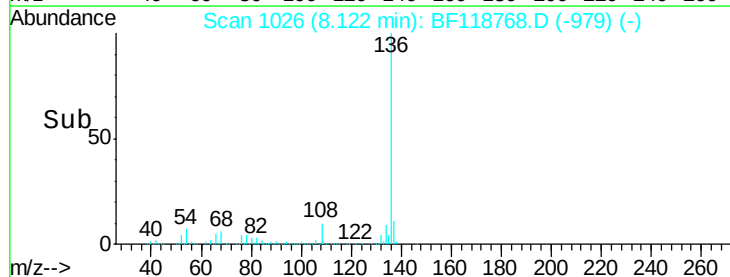
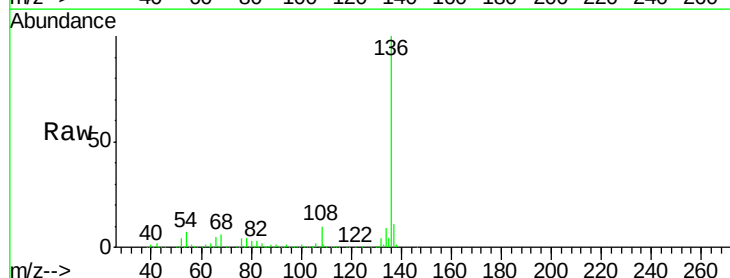
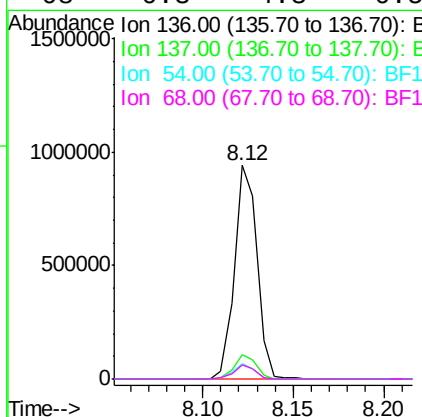
RT: 8.12 min Scan# 1026

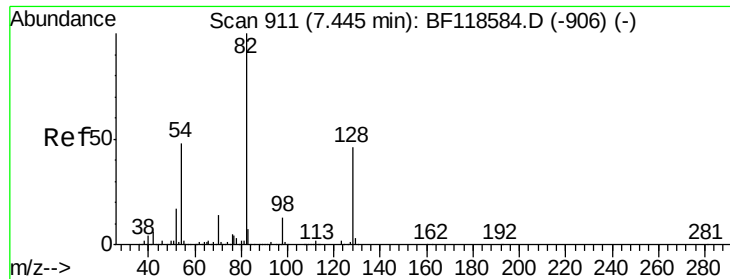
Delta R.T. -0.02 min

Lab File: BF118768.D

Acq: 30 Jan 2020 22:58

Tgt Ion:	136	Resp:	816173
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.0	5.1	7.7
68	6.3	4.3	6.5





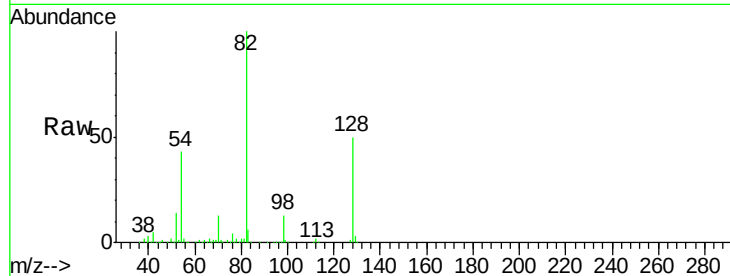
#23
Nitrobenzene-d5
Concen: 34.839 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

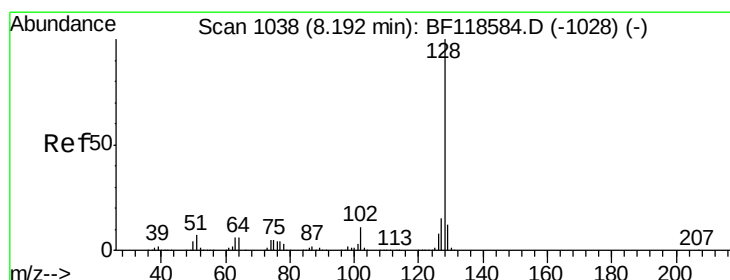
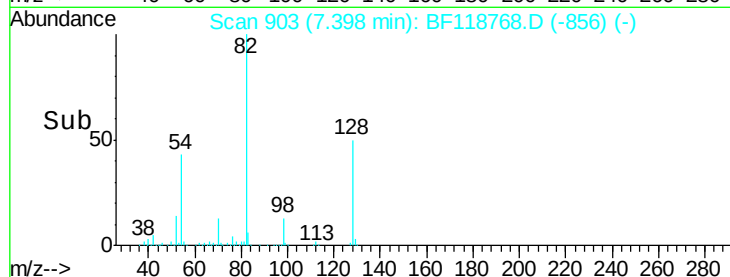
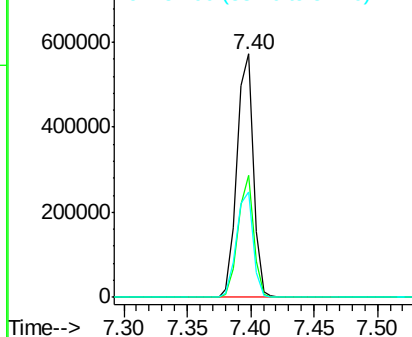
Tot Ion	Ratio	Lower	Upper
82	100		
128	50.3	38.2	57.2
54	43.2	36.1	54.1

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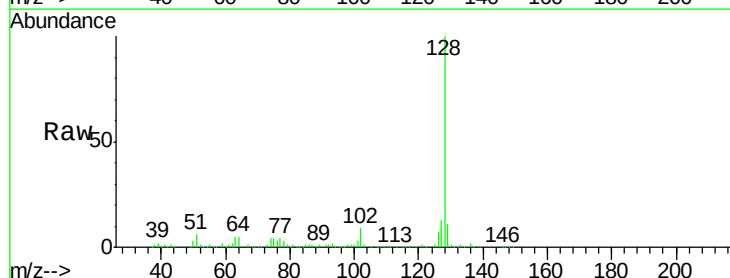


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

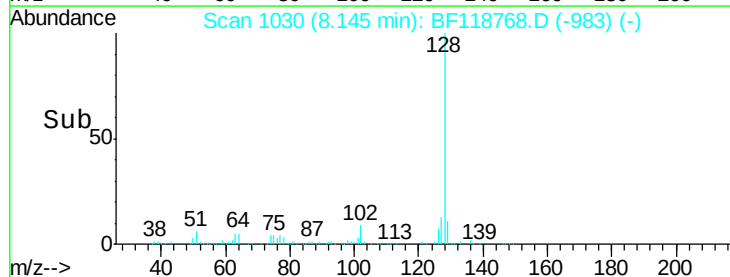
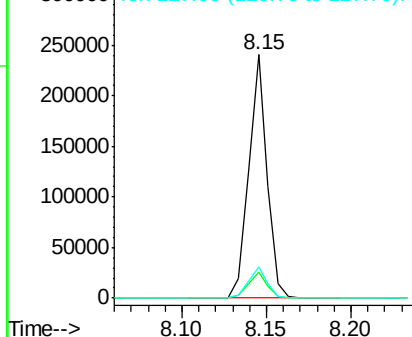


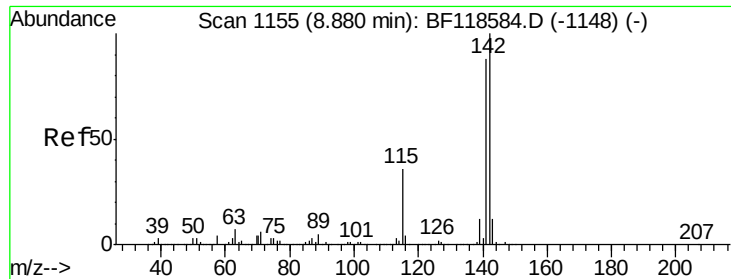
#31
Naphthalene
Concen: 4.932 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.4	14.0
127	12.8	11.3	16.9



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





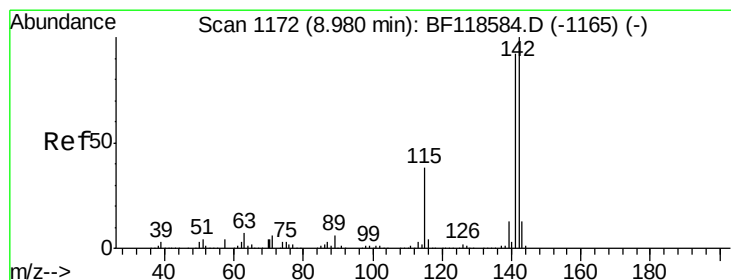
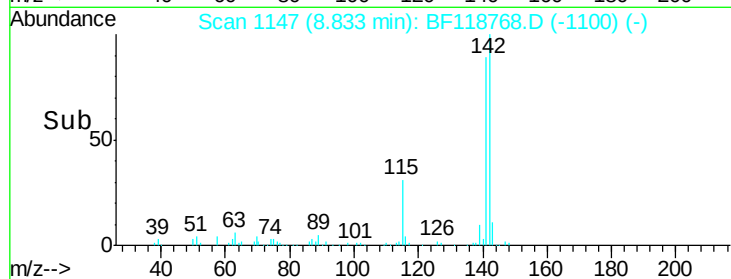
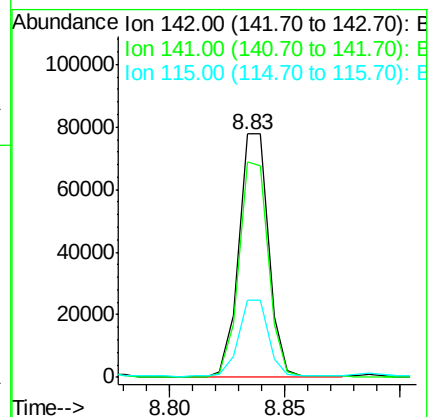
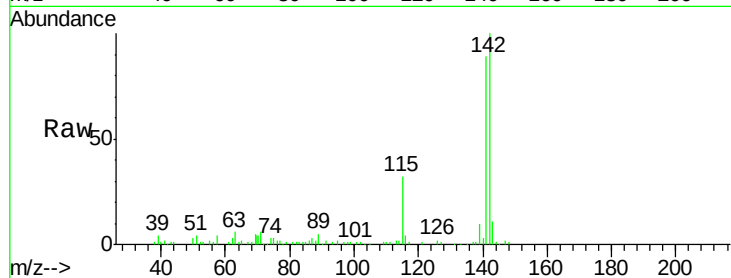
#37
2-Methylnaphthalene
Concen: 2.719 ng
RT: 8.83 min Scan# 1147
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.4	107.0
115	31.8	27.5	41.3

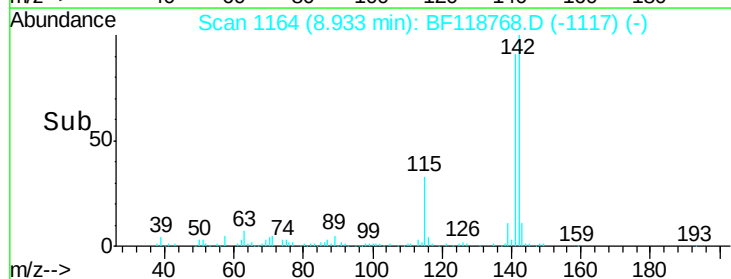
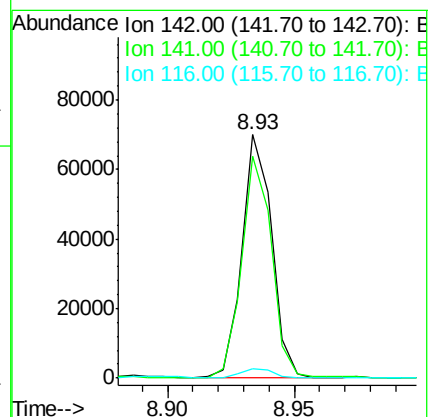
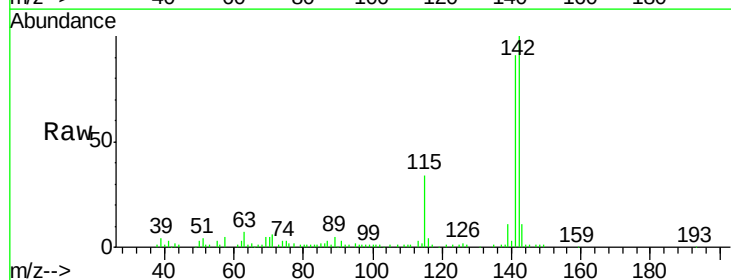
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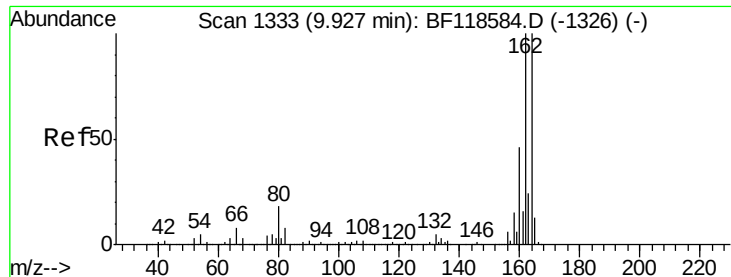
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#38
1-Methylnaphthalene
Concen: 2.303 ng
RT: 8.93 min Scan# 1164
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.5	110.3
116	4.1	3.0	4.6





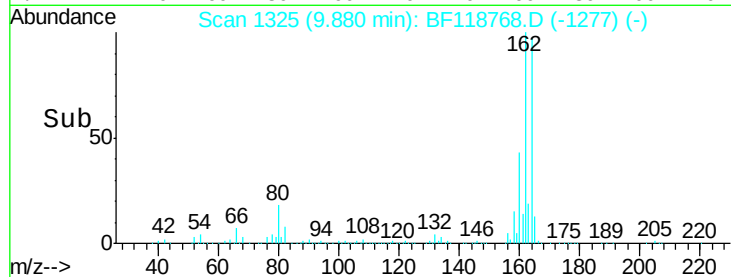
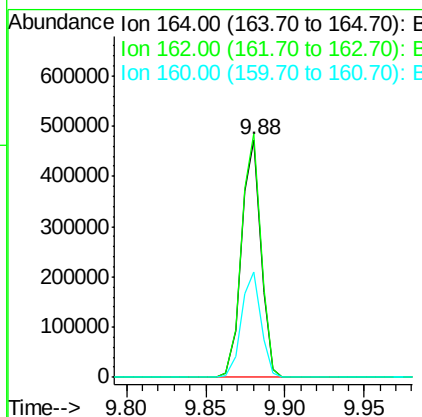
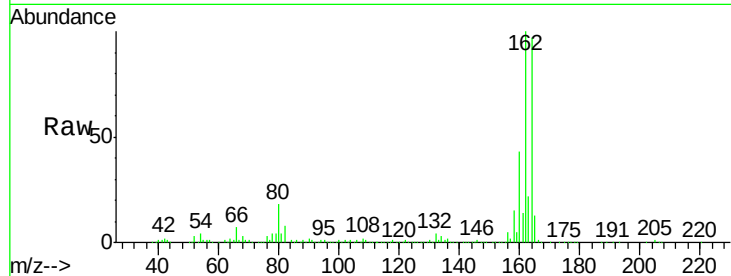
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.02 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Instrument :
 BNA_F
 ClientSampleId :
 SP-SOUTH-SIDE

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.6	80.8	121.2	
160	44.2	35.4	53.0	

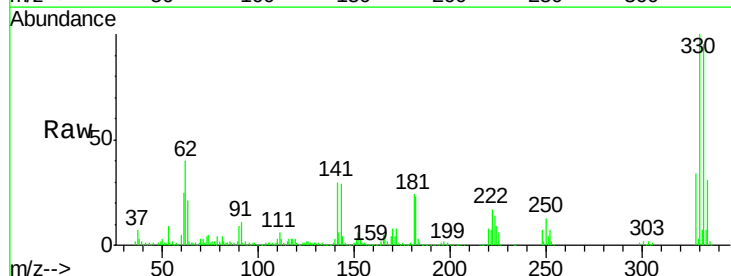
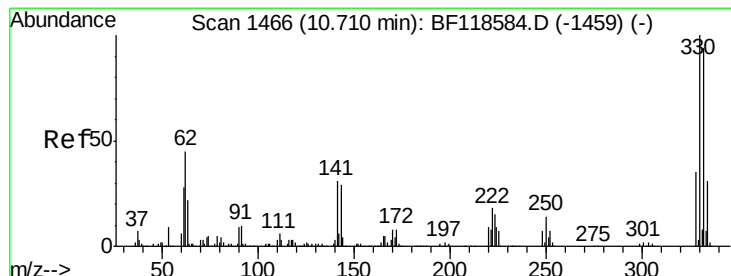
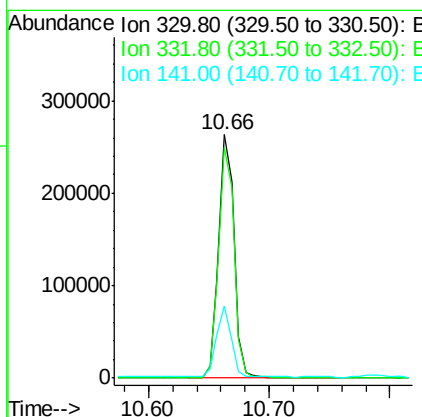
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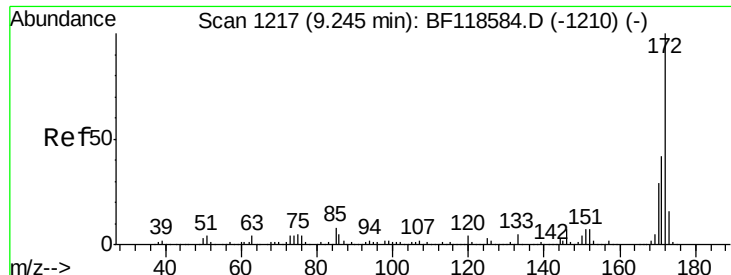
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#42
 2,4,6-Tribromophenol
 Concen: 49.957 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.4	77.6	116.4	
141	26.8	22.2	33.2	





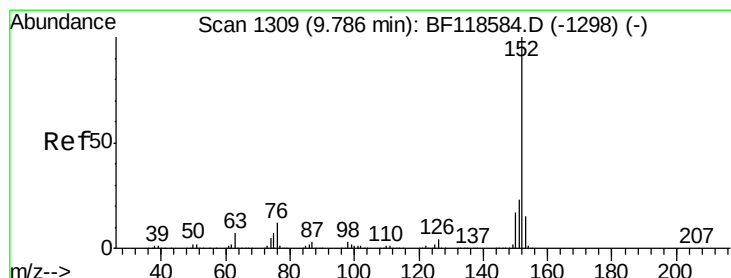
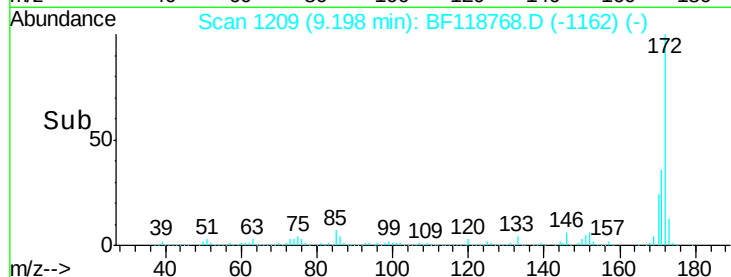
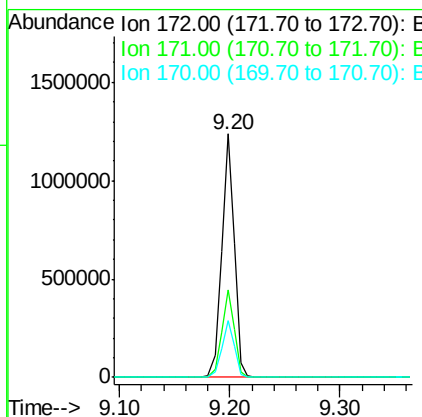
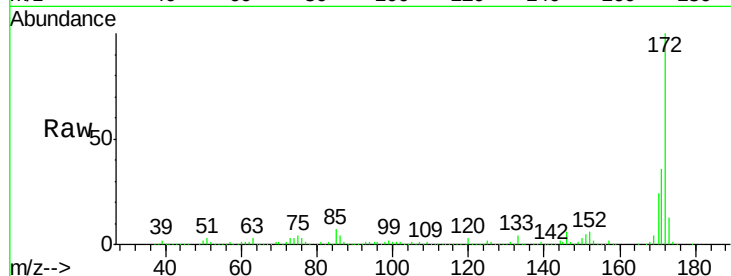
#45
2-Fluorobiphenyl
Concen: 40.322 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Resp	Lower	Upper
172	100	980460		
171	36.1		31.0	46.4
170	23.6		20.7	31.1

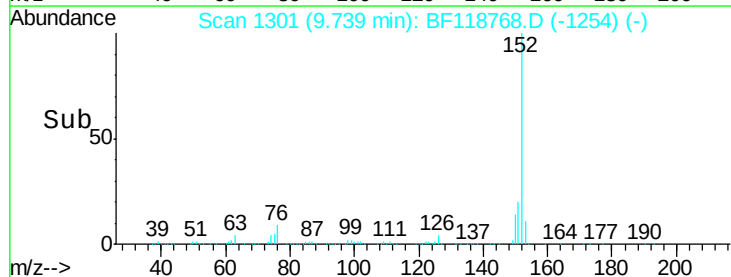
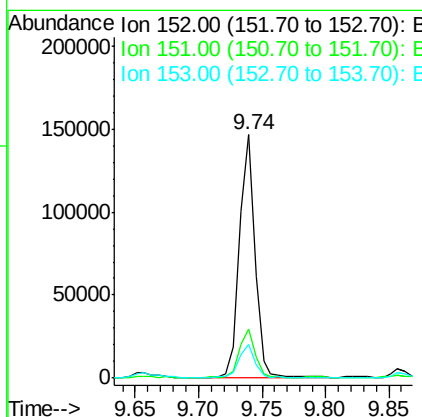
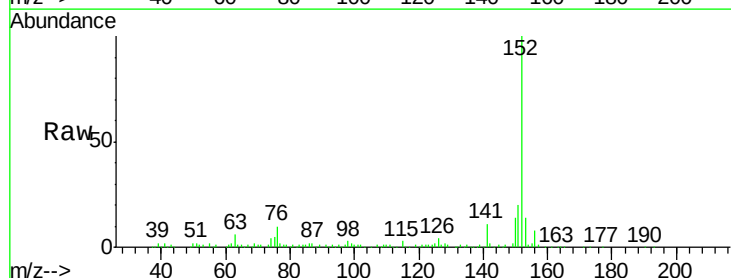
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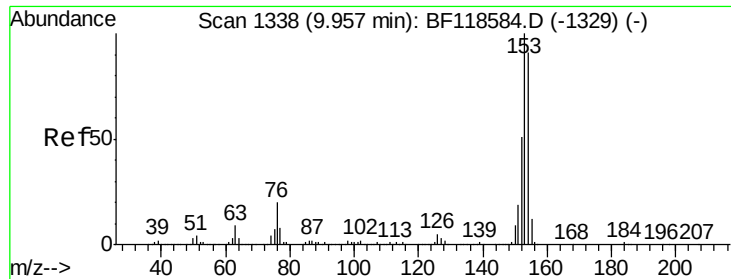
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#49
Acenaphthylene
Concen: 3.822 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	124832		
151	20.2		17.1	25.7
153	13.6		11.0	16.4





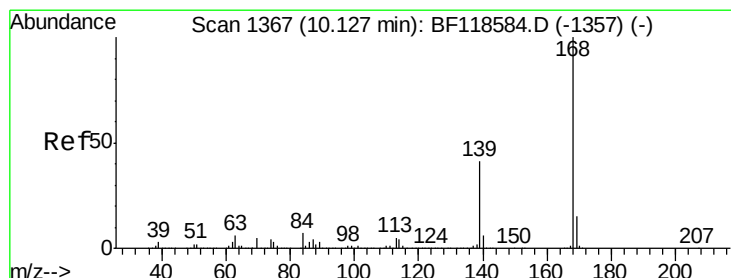
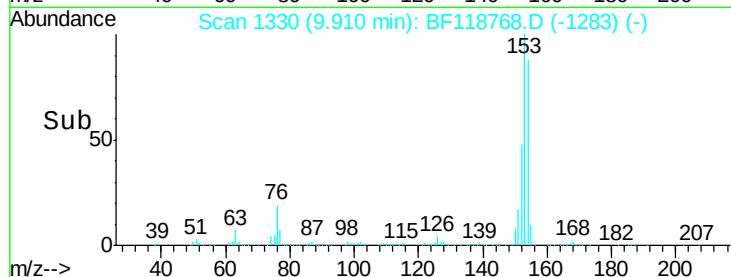
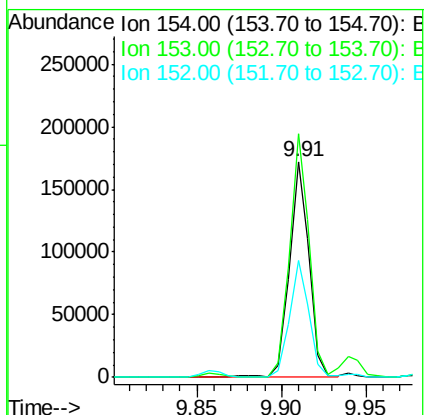
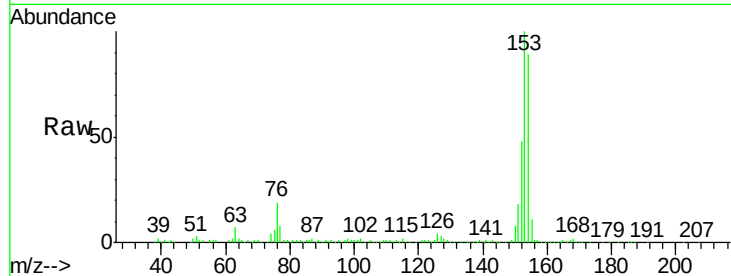
#52
Acenaphthene
Concen: 6.410 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.1	133.7
152	54.2	43.0	64.6

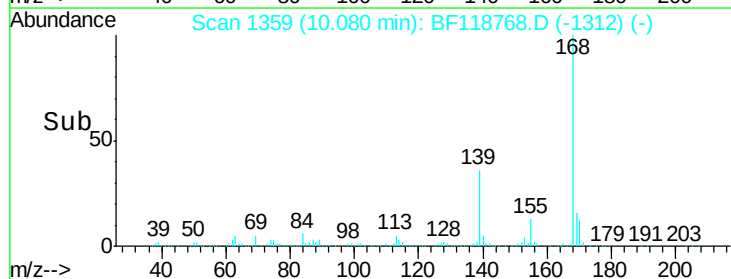
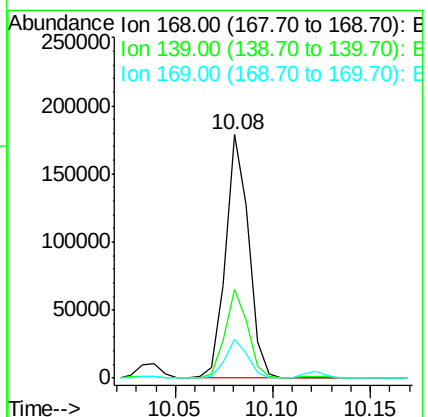
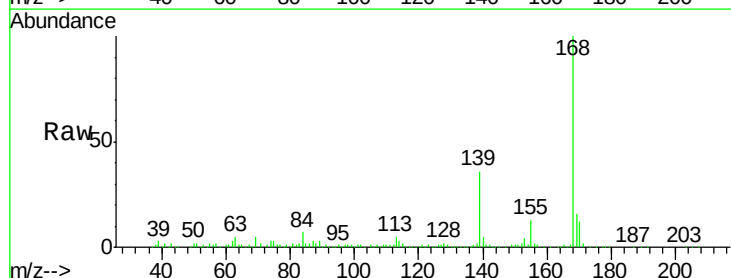
Manual Integrations
APPROVED

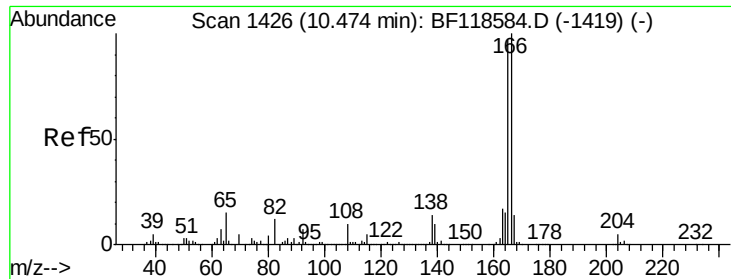
mohammad
2/3/2020 7:57:31 AM



#55
Dibenzofuran
Concen: 4.813 ng
RT: 10.08 min Scan# 1359
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.3	31.6	47.4
169	16.2	11.4	17.0





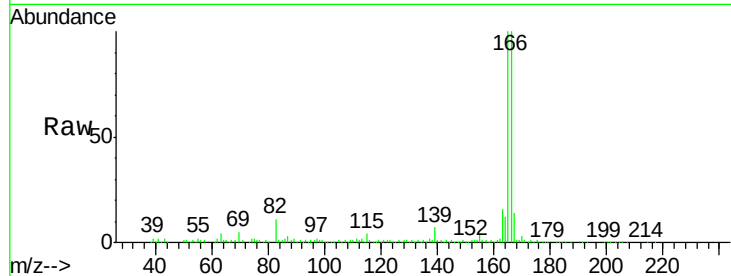
#58
 Fluorene
 Concen: 7.048 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.02 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Instrument :
 BNA_F
 ClientSampleId :
 SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.9	78.6	118.0
167	13.8	11.4	17.2

Manual Integrations
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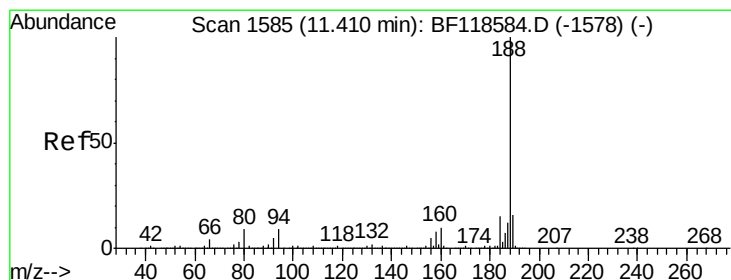
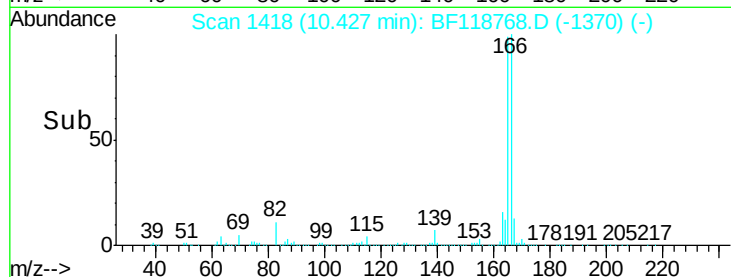
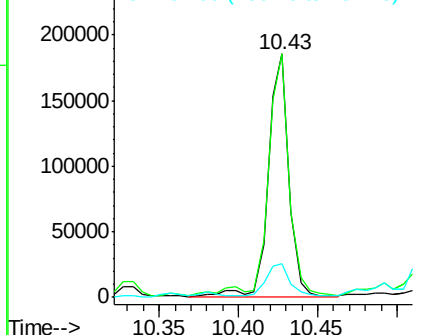


Abundance

Ion 166.00 (165.70 to 166.70): E

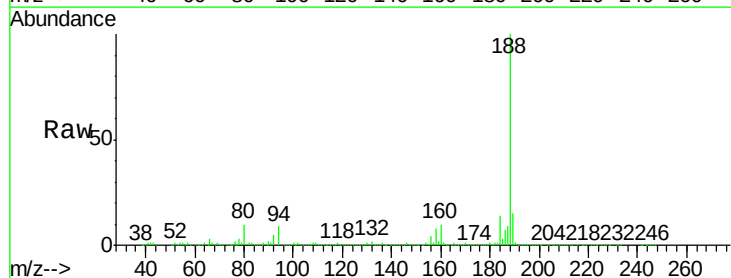
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.4	11.2
80	10.1	7.8	11.8

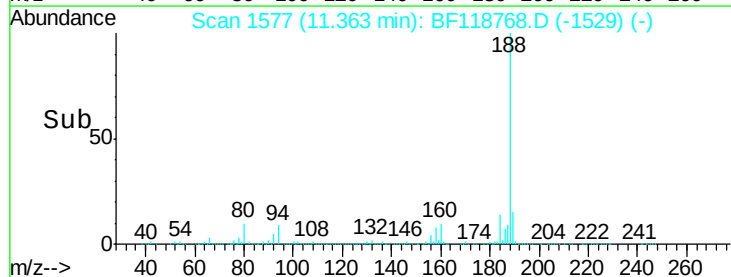
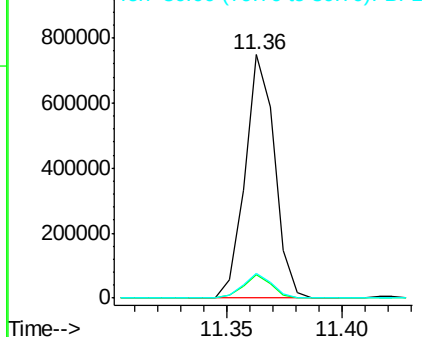


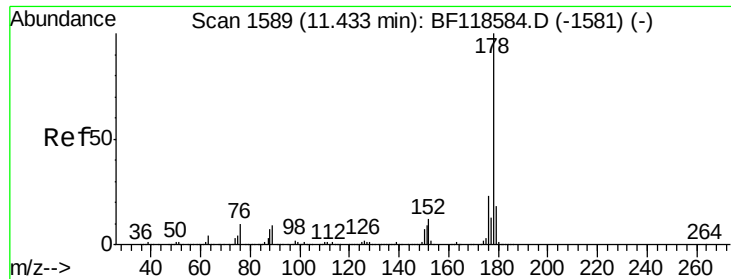
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





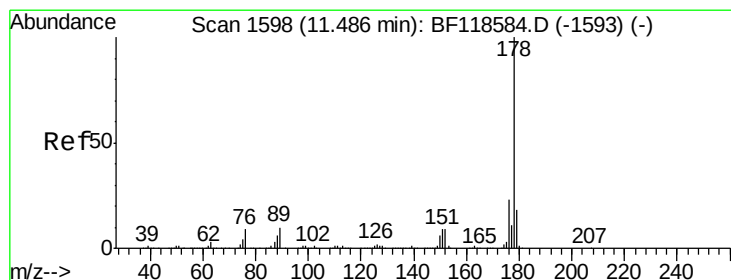
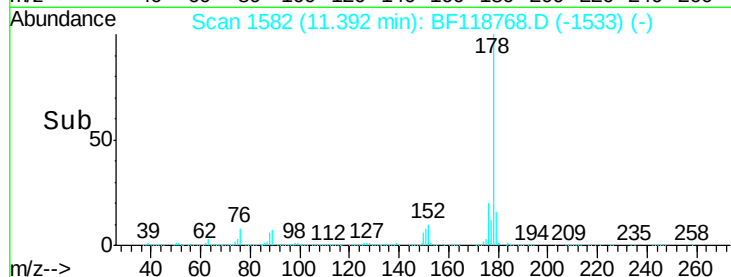
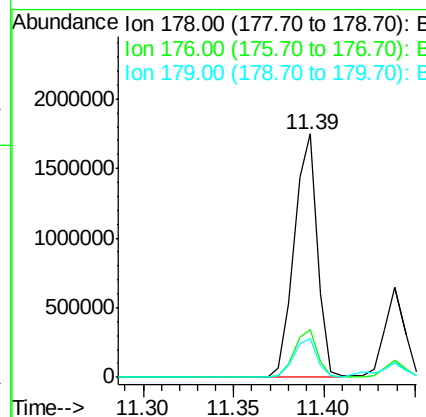
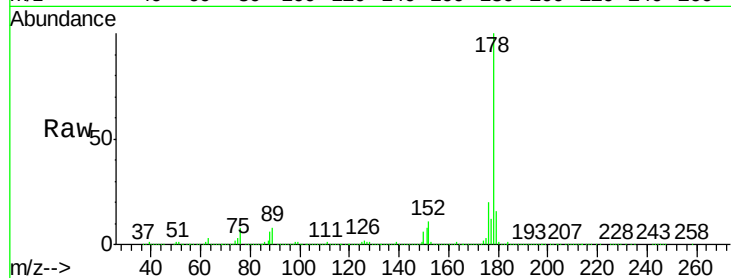
#71
Phenanthrene
Concen: 48.455 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.5	24.7
179	15.9	13.3	19.9

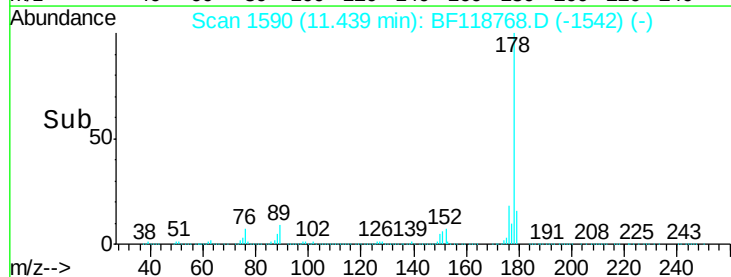
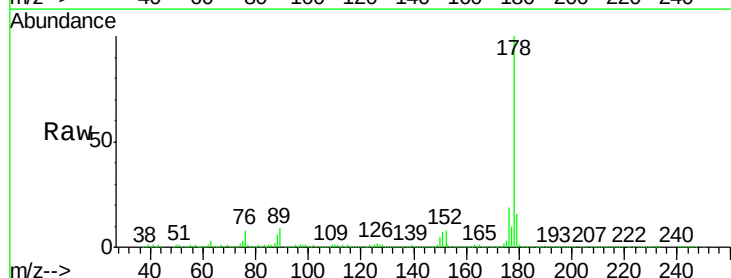
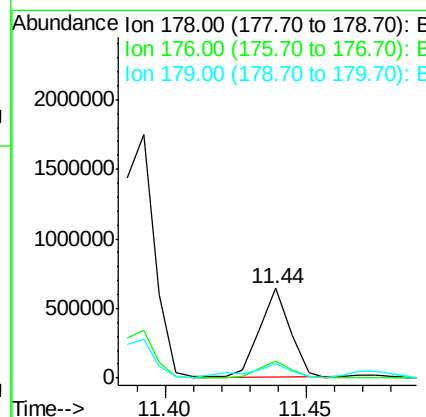
Manual Integrations
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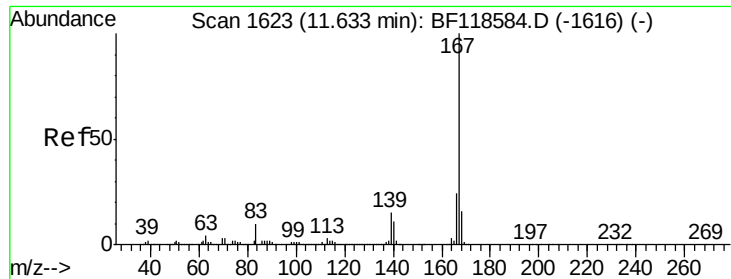
mohammad
2/3/2020 7:57:31 AM



#72
Anthracene
Concen: 15.240 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	16.0	13.3	19.9





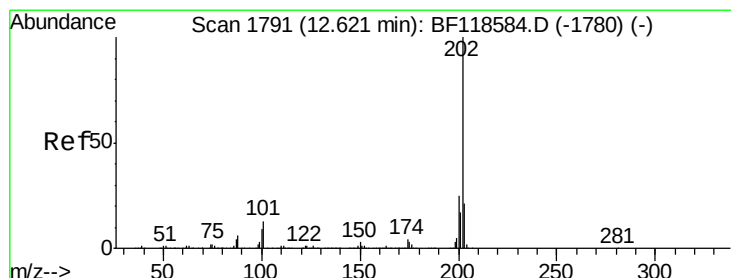
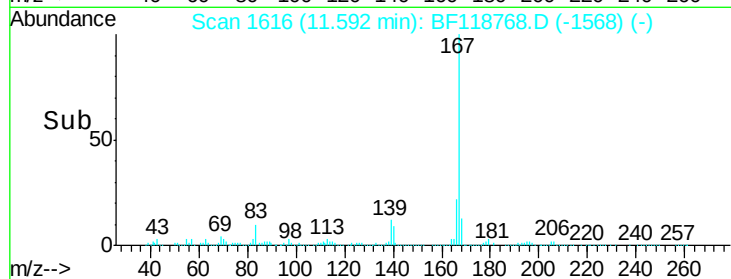
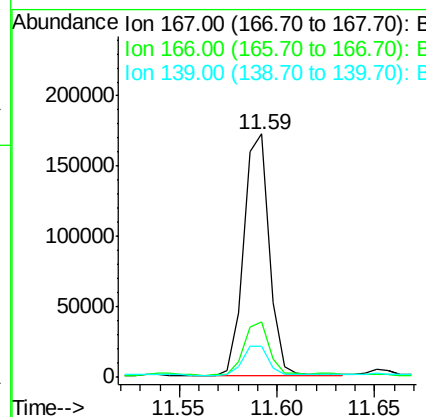
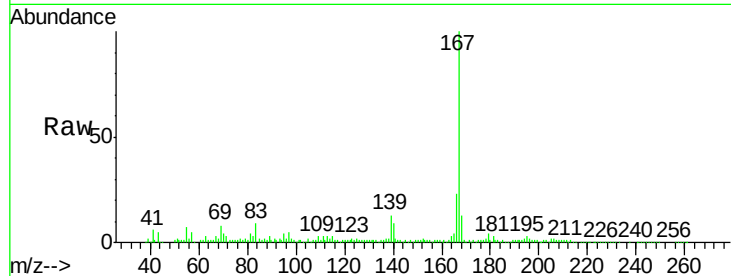
#73
 Carbazole
 Concen: 5.340 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. -0.02 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Instrument :
 BNA_F
 ClientSampleId :
 SP-SOUTH-SIDE

Tot Ion:	167	Resp:	156281
Ion Ratio	Lower	Upper	
167	100		
166	22.5	18.3	27.5
139	12.5	11.0	16.4

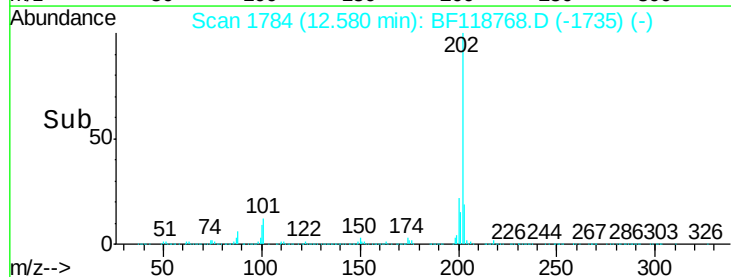
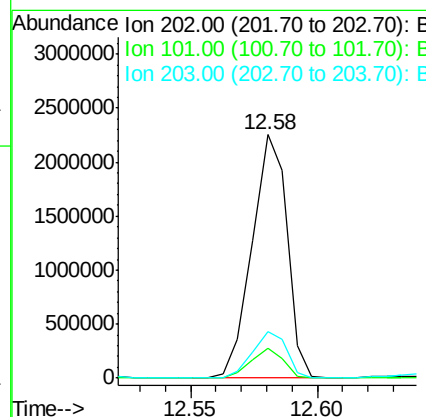
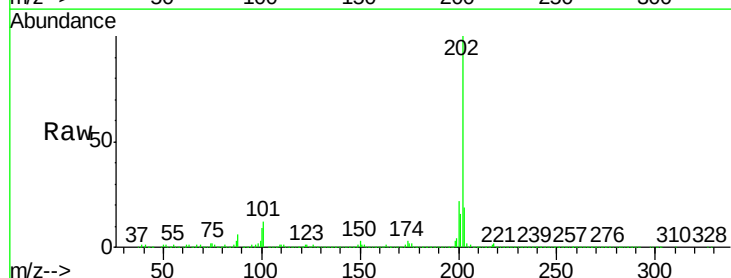
Manual Integrations
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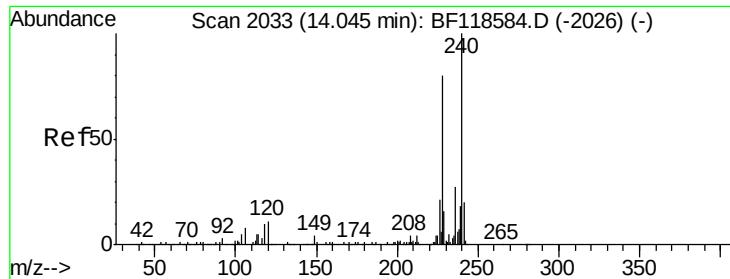
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#75
 Fluoranthene
 Concen: 63.804 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. -0.01 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Tgt Ion:	202	Resp:	2169860
Ion Ratio	Lower	Upper	
202	100		
101	12.1	0.0	32.1
203	19.1	0.0	38.9





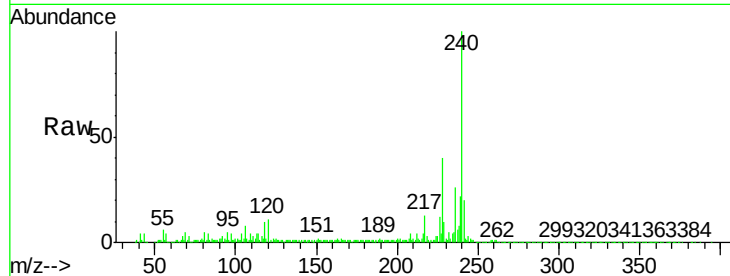
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.6	11.4
236	26.0	21.0	31.4

Manual Integrations
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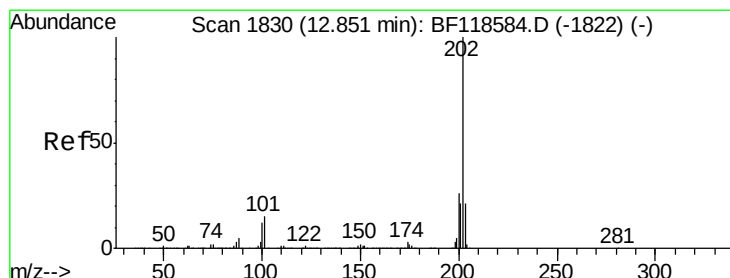
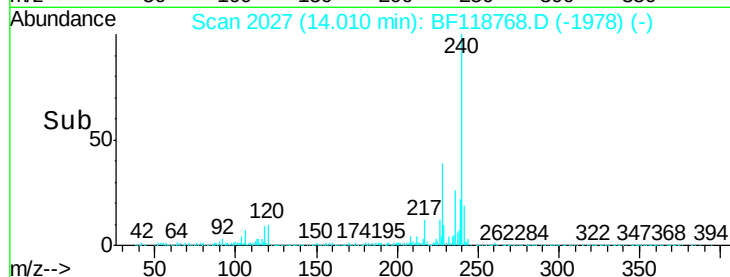
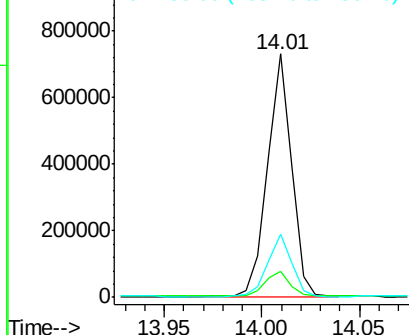


Abundance

Ion 240.00 (239.70 to 240.70): E

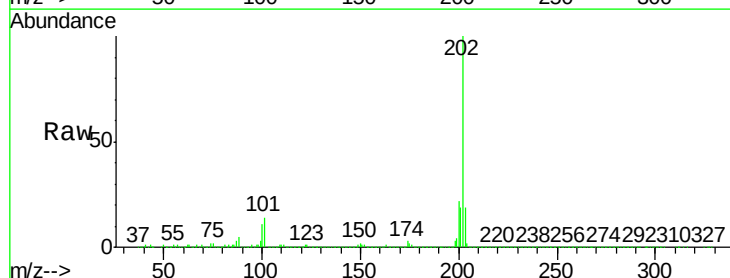
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 50.616 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	18.1	27.1
203	19.1	15.2	22.8

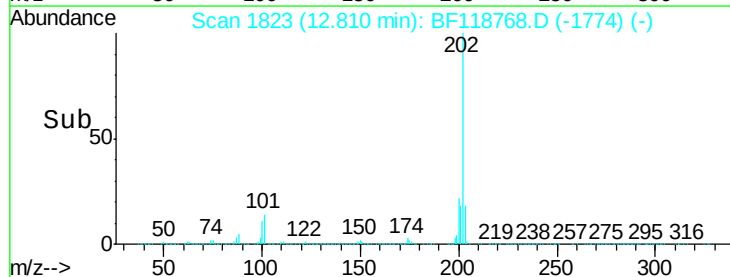
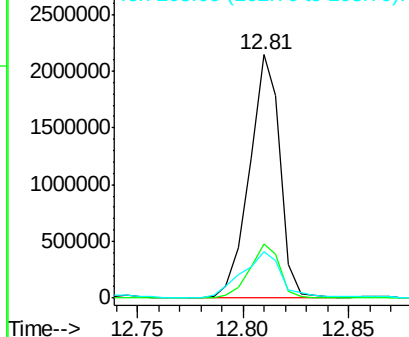


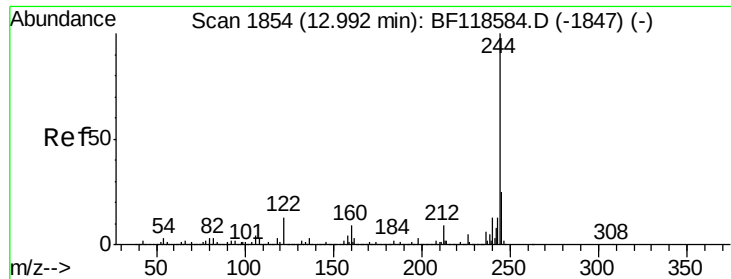
Abundance

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





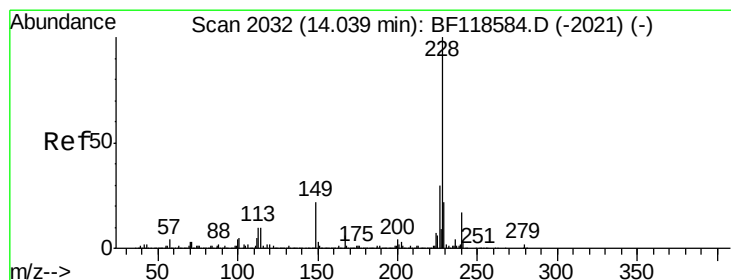
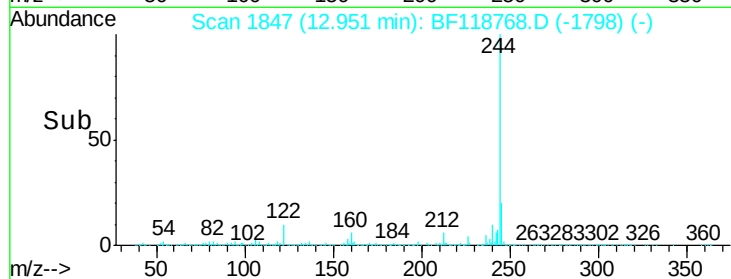
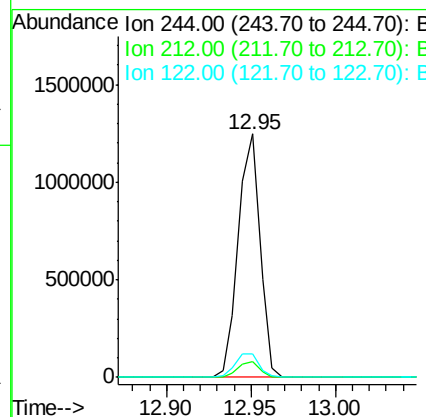
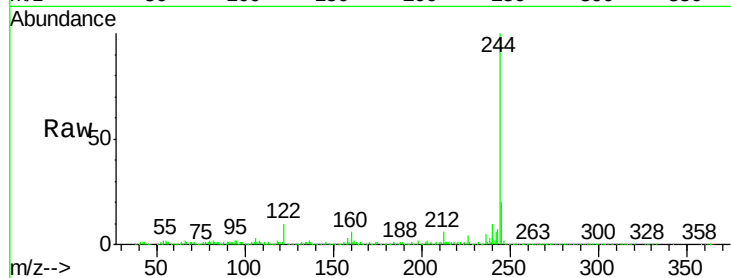
#79
 Terphenyl-d14
 Concen: 39.072 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Instrument :
 BNA_F
 ClientSampleId :
 SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.3	9.5
122	9.8	9.2	13.8

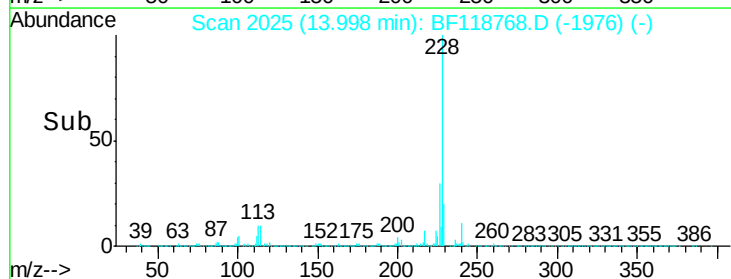
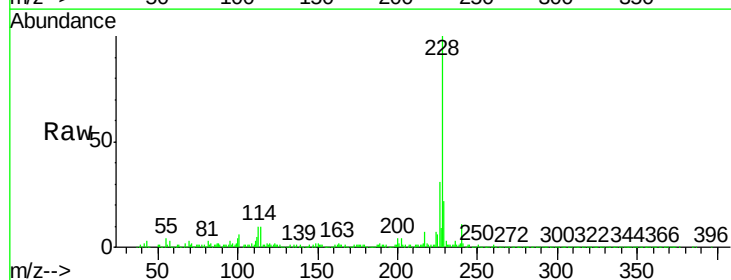
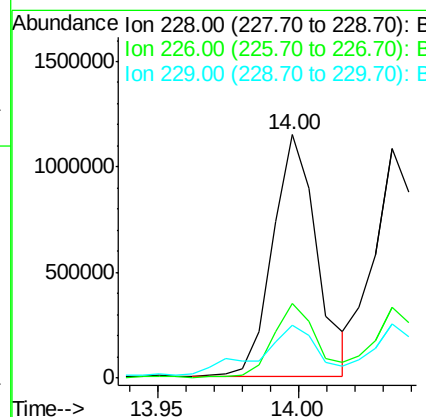
Manual Integrations
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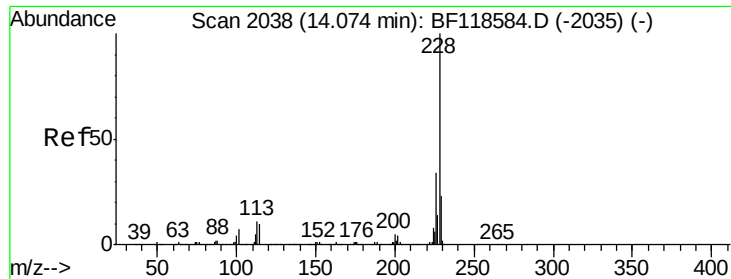
mohammad
 2/3/2020 7:57:31 AM



#81
 Benzo(a)anthracene
 Concen: 33.281 ng
 RT: 14.00 min Scan# 2025
 Delta R.T. -0.01 min
 Lab File: BF118768.D
 Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	22.6	34.0
229	21.5	16.6	25.0





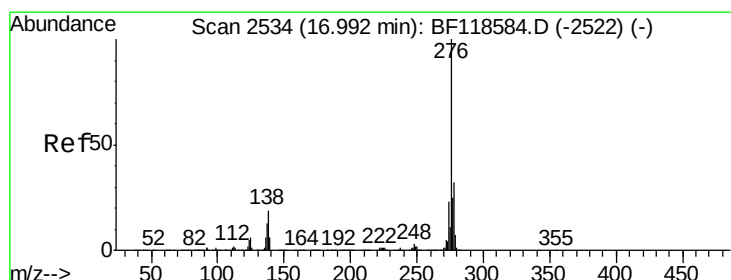
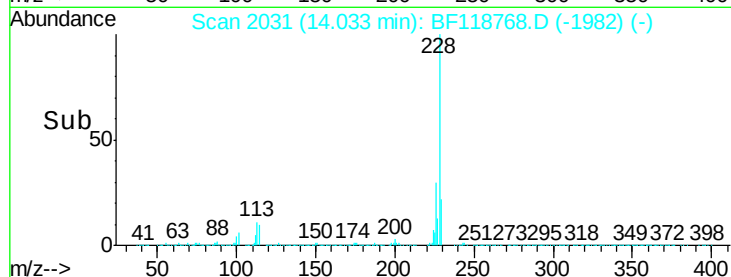
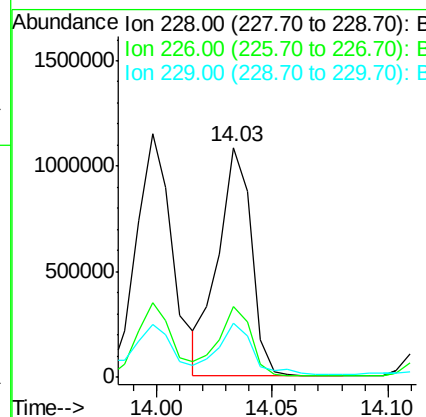
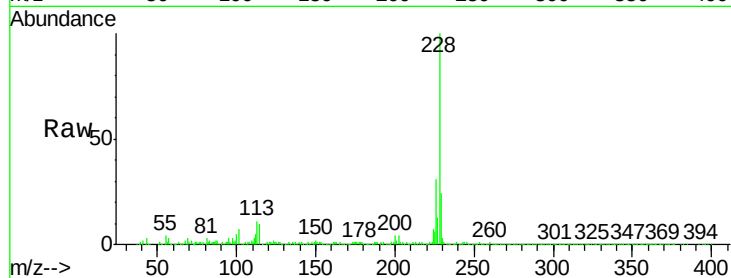
#83
Chrysene
Concen: 30.131 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.6	38.4
229	23.7	17.1	25.7

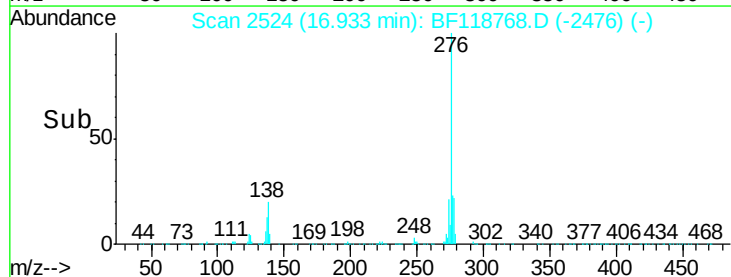
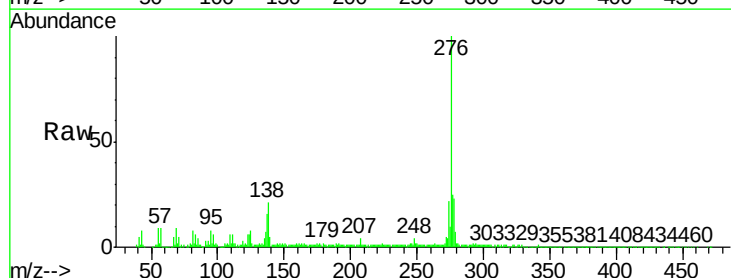
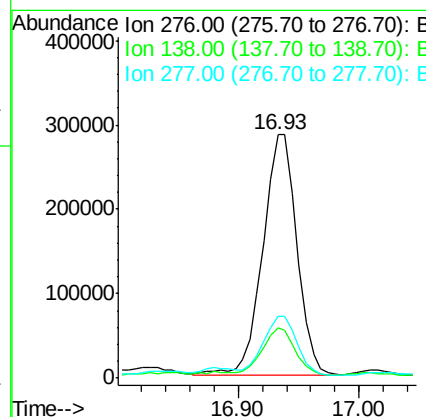
Manual Integrations
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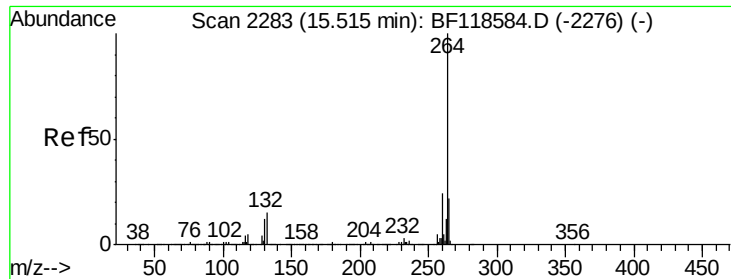
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 17.970 ng
RT: 16.93 min Scan# 2524
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.0	18.2	27.4
277	24.5	20.4	30.6





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. -0.01 min

Lab File: BF118768.D

Acq: 30 Jan 2020 22:58

Instrument :

BNA_F

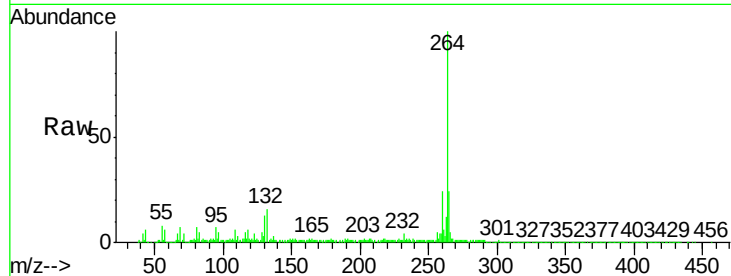
ClientSampleId :

SP-SOUTH-SIDE

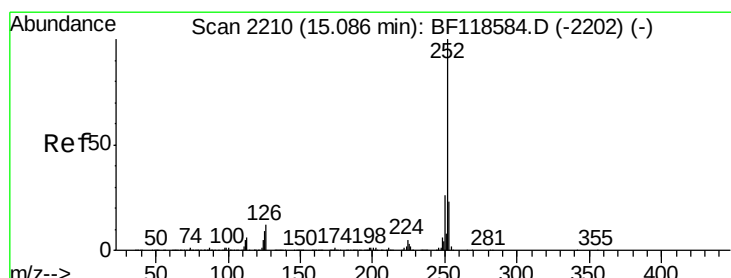
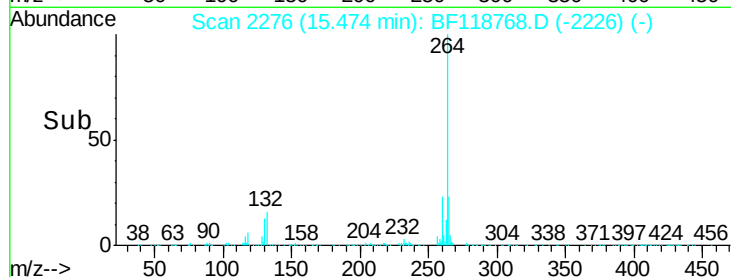
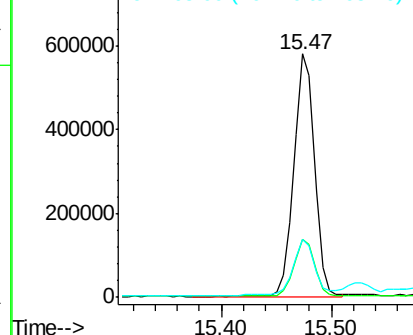
Tot Ion:	264	Resp:	735906
Ion Ratio	Lower	Upper	
264	100		
260	23.9	18.6	28.0
265	23.8	17.0	25.6

Manual Integrations
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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: 34.339 ng m

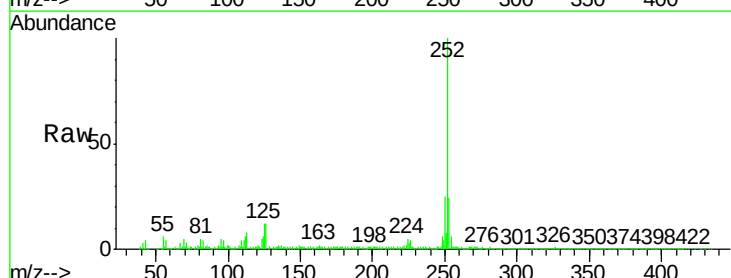
RT: 15.05 min Scan# 2204

Delta R.T. -0.01 min

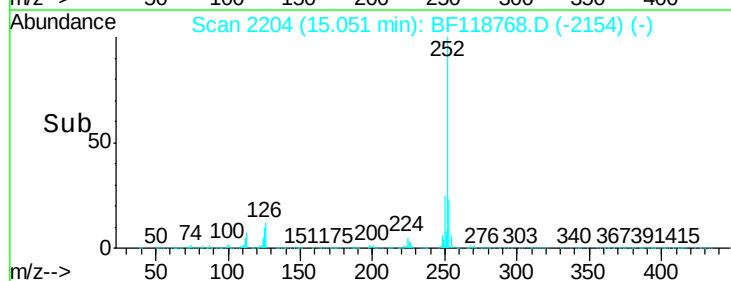
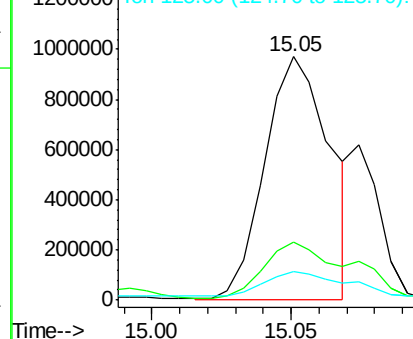
Lab File: BF118768.D

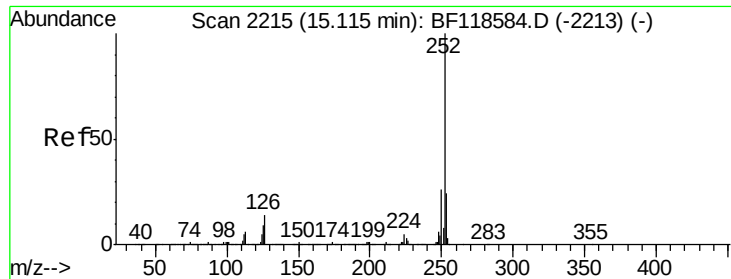
Acq: 30 Jan 2020 22:58

Tgt Ion:	252	Resp:	1588430
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.2	27.4
125	11.8	7.7	11.5#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





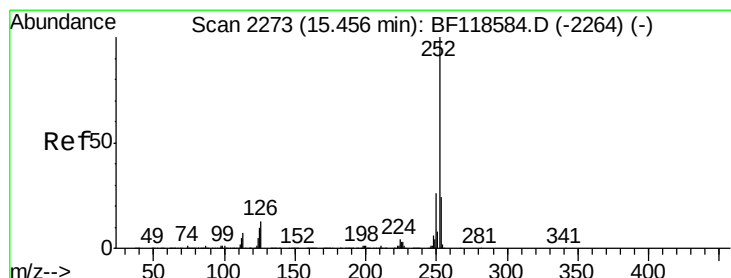
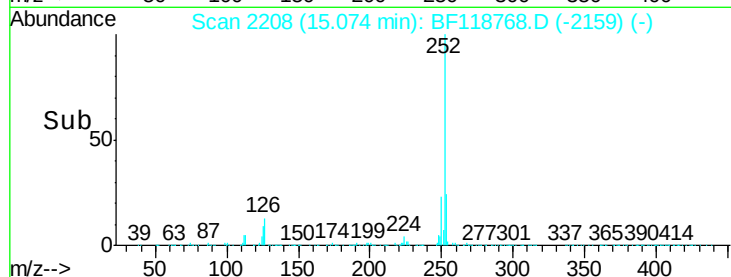
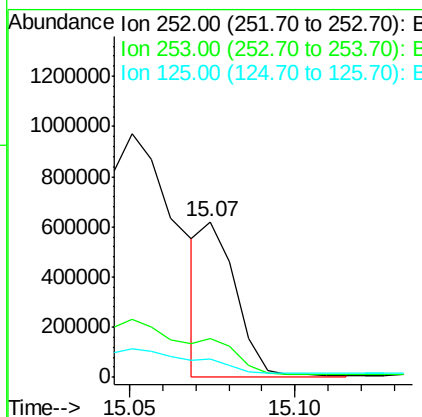
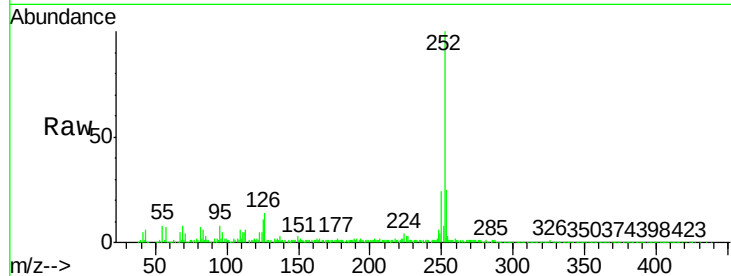
#89
Benzo(k)fluoranthene
Concen: 10.735 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.4	27.6
125	11.4	8.1	12.1

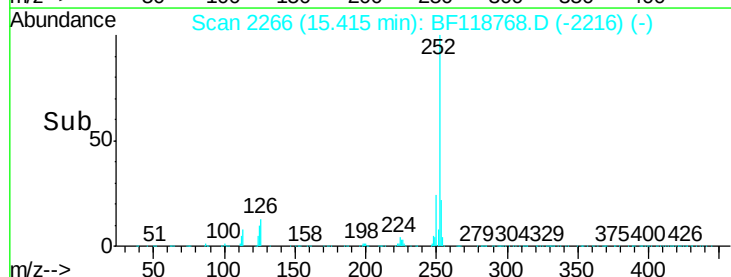
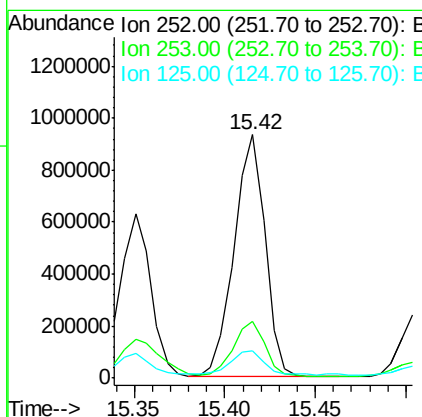
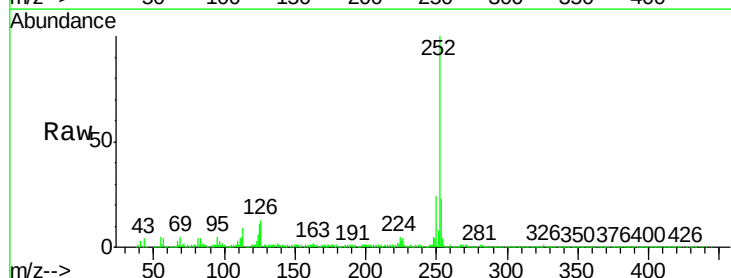
Manual Integrations
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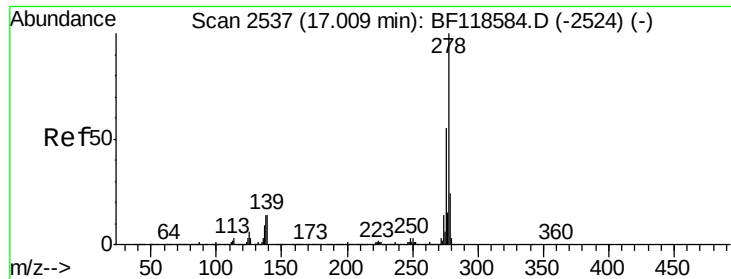
mohammad
2/3/2020 7:57:31 AM



#90
Benzo(a)pyrene
Concen: 27.912 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.01 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	11.3	8.3	12.5





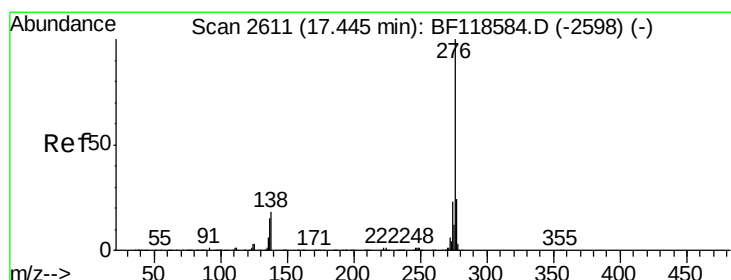
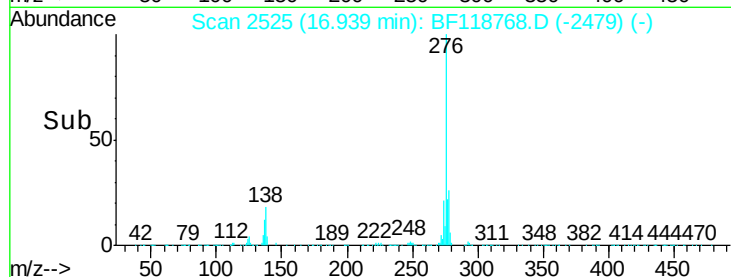
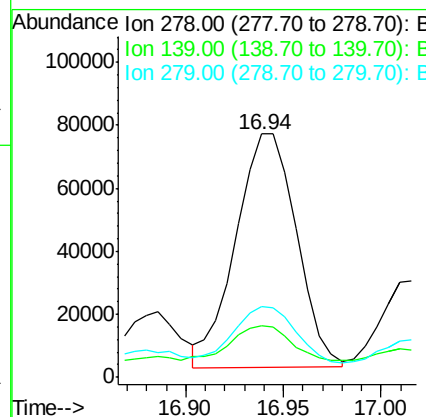
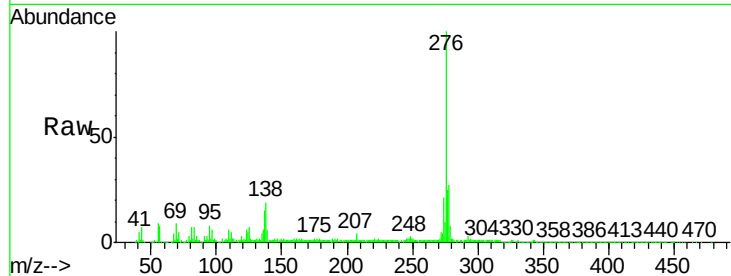
#91
Dibenzo(a,h)anthracene
Concen: 4.526 ng
RT: 16.94 min Scan# 2525
Delta R.T. -0.03 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
SP-SOUTH-SIDE

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.1	11.8	17.6#
279	29.0	19.1	28.7#

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:31 AM



#92
Benzo(g,h,i)perylene
Concen: 14.388 ng
RT: 17.37 min Scan# 2599
Delta R.T. -0.02 min
Lab File: BF118768.D
Acq: 30 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.0	28.6
138	20.6	15.4	23.2

