

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
 Data File : BF121698.D
 Acq On : 25 Sep 2020 16:24
 Operator : JU/CG
 Sample : L4152-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2

Manual Integrations
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mohammad
 9/28/2020 11:10:37 AM

Quant Time: Sep 25 17:27:42 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 25 14:15:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	148306	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	572552	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	299485	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	562565	20.00	ng	0.00
76) Chrysene-d12	13.97	240	384577	20.00	ng	0.00
86) Perylene-d12	15.42	264	335216	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	36085	3.62	ng	0.00
7) Phenol-d6	6.43	99	211292	16.14	ng	-0.01
23) Nitrobenzene-d5	7.36	82	161333	15.13	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	419	0.11	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	329750	16.68	ng	0.00
79) Terphenyl-d14	12.91	244	347163	18.29	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.10	128	136271	4.509	ng	98
50) Dimethylphthalate	9.55	163	48810	2.249	ng	100
52) Acenaphthene	9.87	154	177298	9.670	ng	99
55) Dibenzofuran	10.04	168	238691	9.244	ng	96
58) Fluorene	10.38	166	223022	11.295	ng	100
71) Phenanthrene	11.36	178	2606888	85.051	ng	98
72) Anthracene	11.40	178	777728	24.588	ng	99
73) Carbazole	11.56	167	411277	14.409	ng	98
75) Fluoranthene	12.55	202	2934163	89.676	ng	98
78) Pyrene	12.78	202	2500908	89.005	ng	99
81) Benzo(a)anthracene	13.96	228	1329955	54.663	ng	100
83) Chrysene	14.00	228	1111286	45.105	ng	97
87) Indeno(1,2,3-cd)pyrene	16.85	276	604709	27.700	ng	95
88) Benzo(b)fluoranthene	15.00	252	1327477m	59.237	ng	
89) Benzo(k)fluoranthene	15.03	252	351654m	17.136	ng	
90) Benzo(a)pyrene	15.36	252	852809	44.769	ng	98
91) Dibenzo(a,h)anthracene	16.86	278	153004m	8.420	ng	
92) Benzo(g,h,i)perylene	17.29	276	556241	31.140	ng	99

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

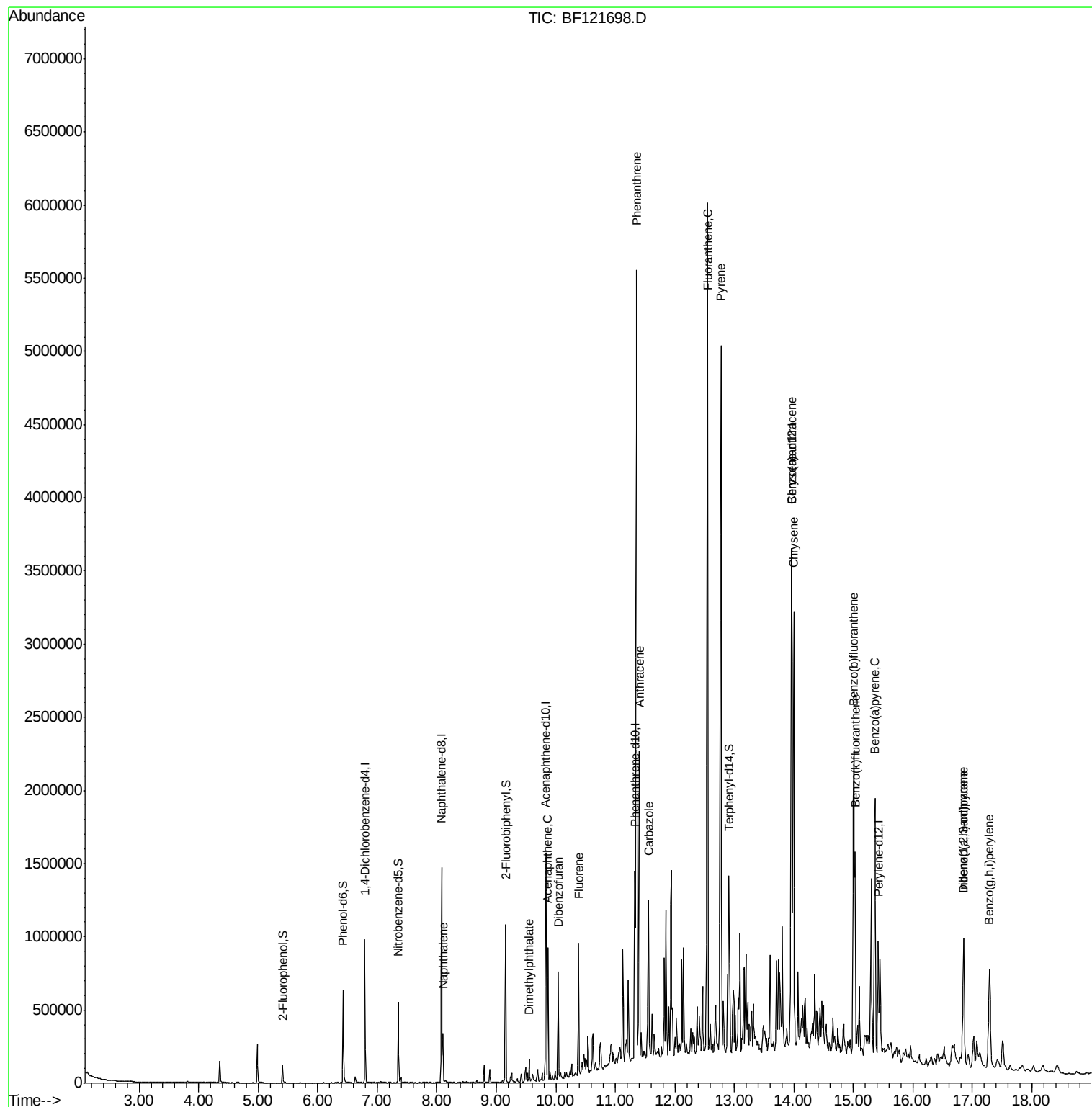
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
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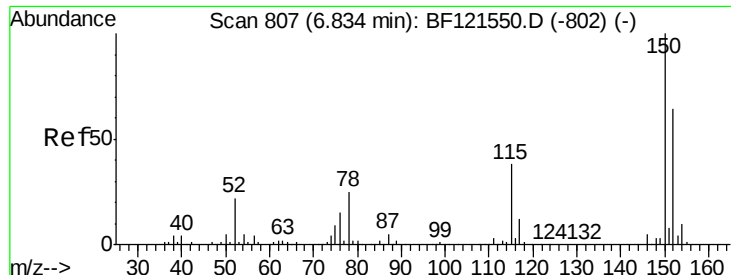
Instrument :
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ClientSampleId :
WR-PILE-1-2

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Quant Time: Sep 25 17:27:42 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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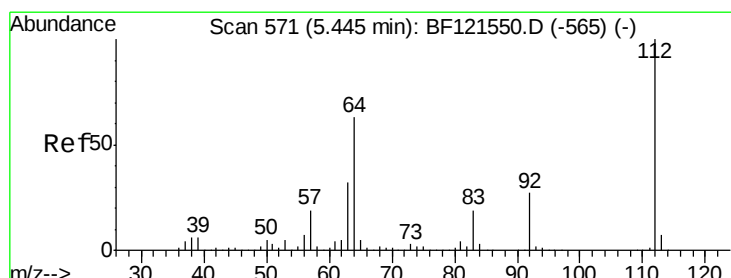
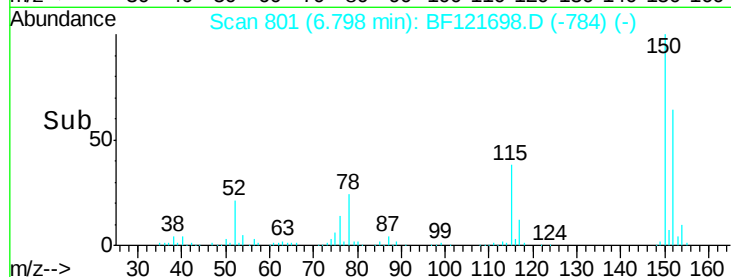
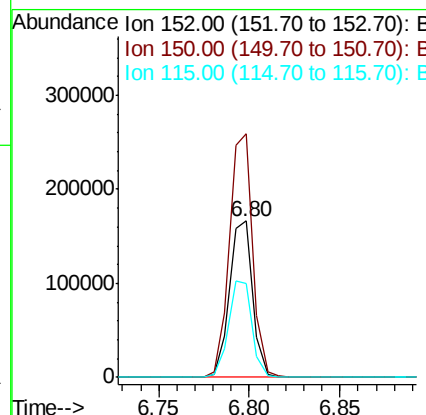
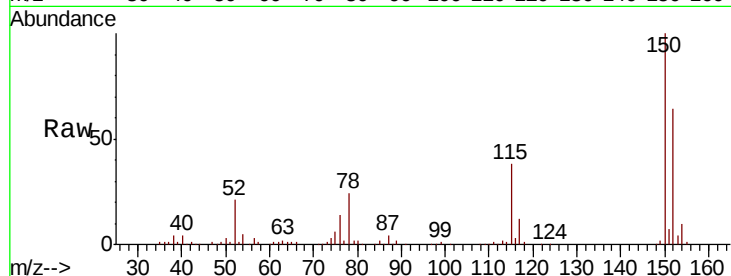
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.1	189.1
115	59.7	50.6	76.0

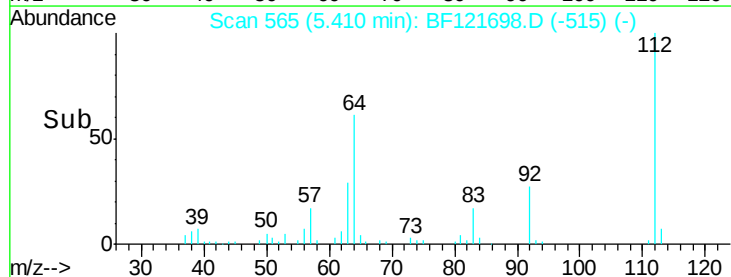
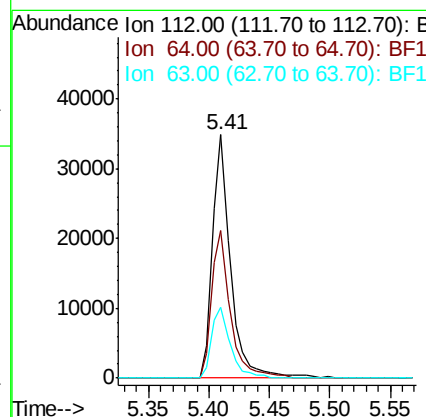
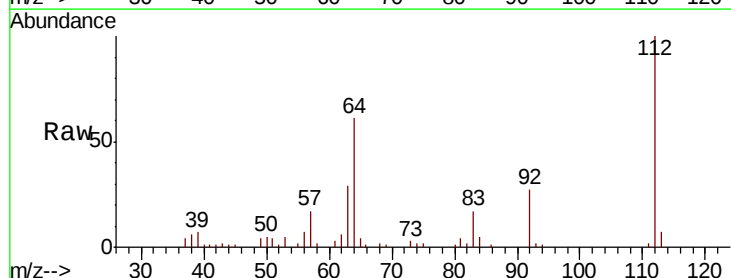
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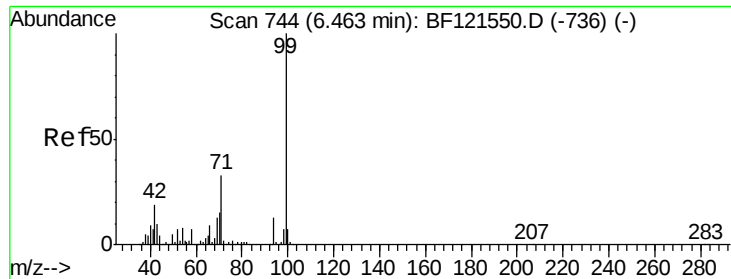
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#5
 2-Fluorophenol
 Concen: 3.616 ng
 RT: 5.41 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	49.5	74.3
63	29.1	25.2	37.8





#7

Phenol-d6

Concen: 16.139 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Instrument :

BNA_F

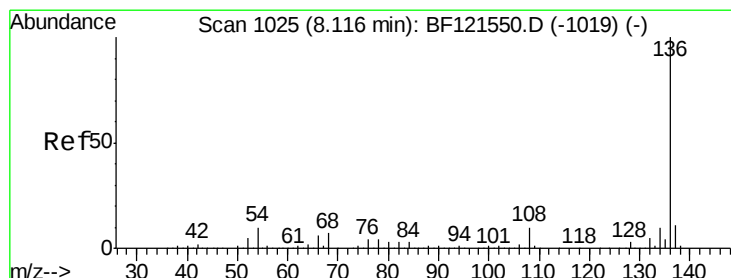
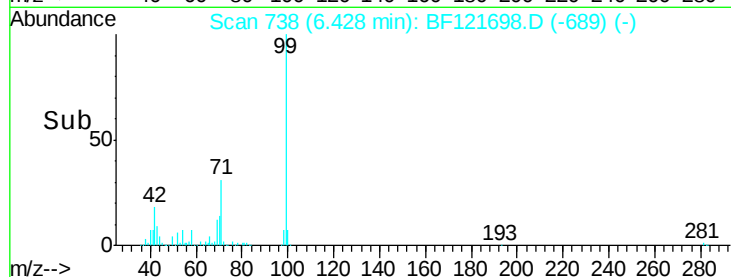
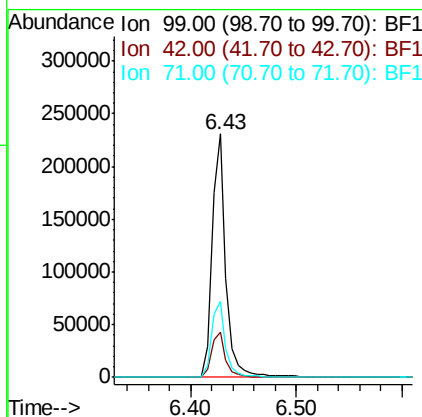
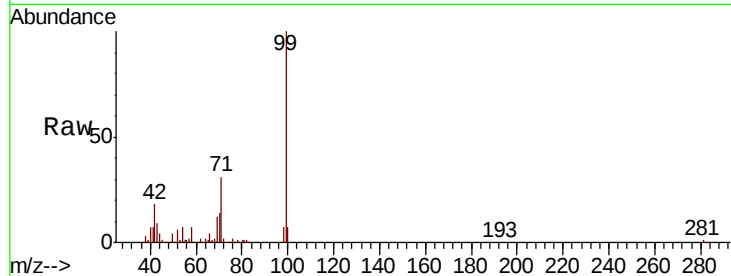
ClientSampleId :

WR-PILE-1-2

Tot Ion:	99	Resp:	211292
Ion Ratio	Lower	Upper	
99	100		
42	18.4	16.1	24.1
71	31.5	27.9	41.9

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#21

Naphthalene-d8

Concen: 20.000 ng

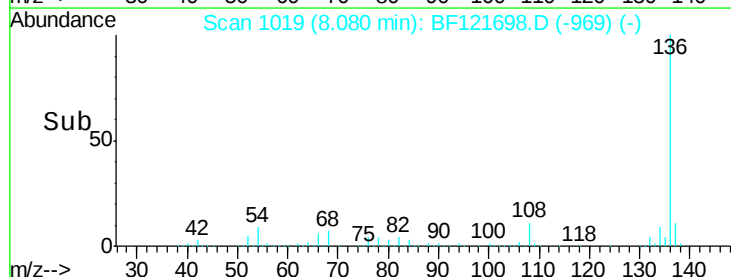
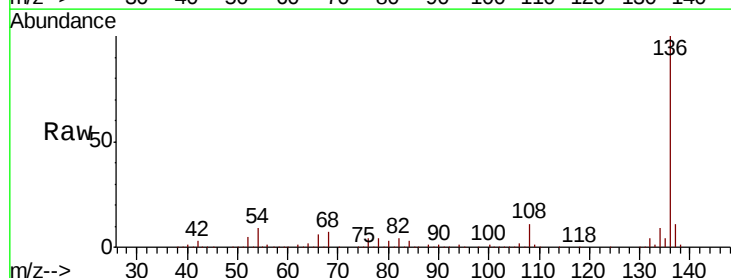
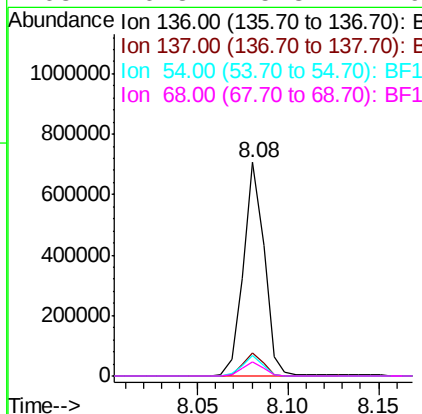
RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Tgt Ion:	136	Resp:	572552
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	9.5	7.6	11.4
68	6.8	5.3	7.9





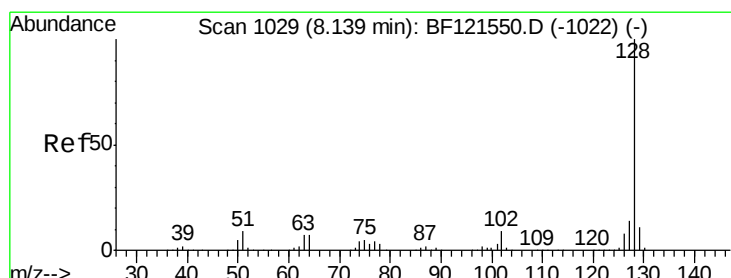
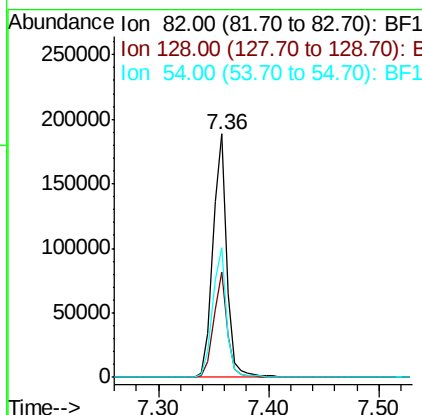
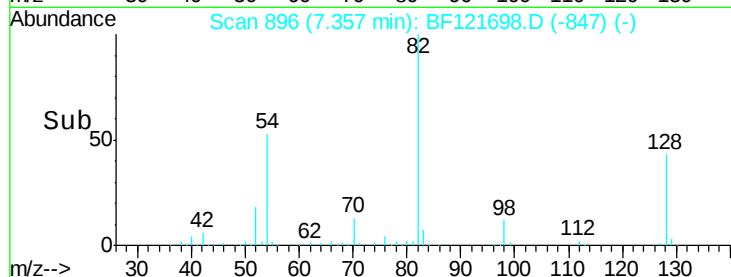
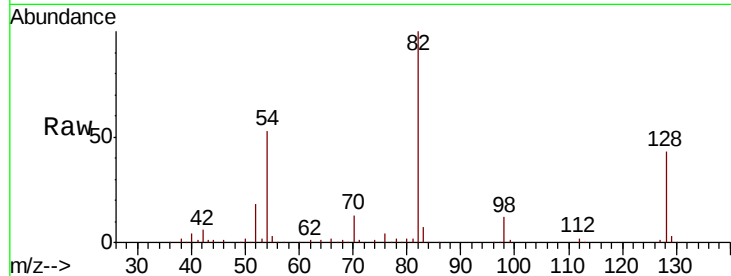
#23
Nitrobenzene-d5
Concen: 15.129 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.9	50.9
54	53.1	43.2	64.8

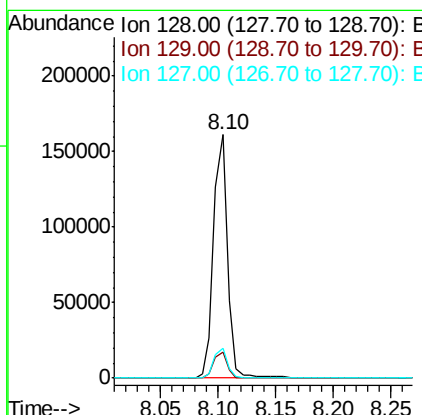
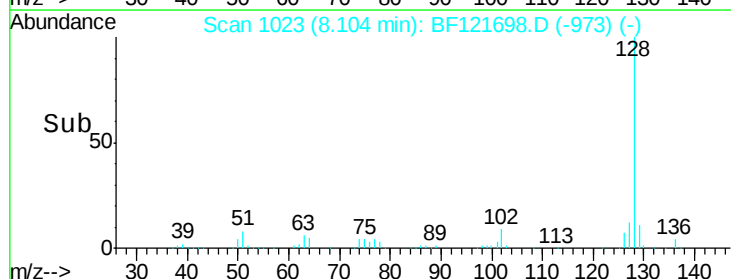
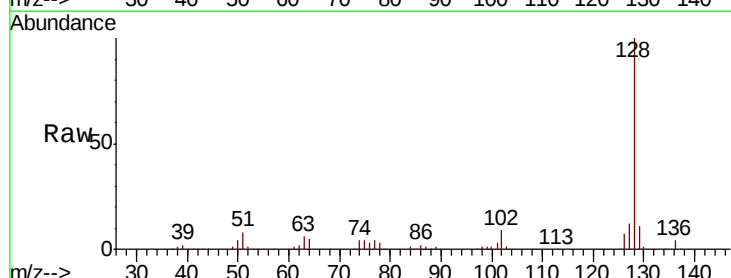
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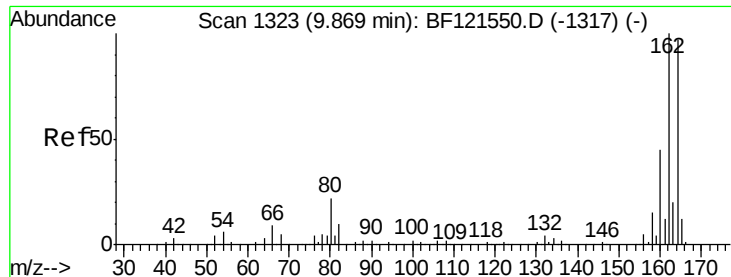
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#31
Naphthalene
Concen: 4.509 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.4
127	12.4	11.0	16.4





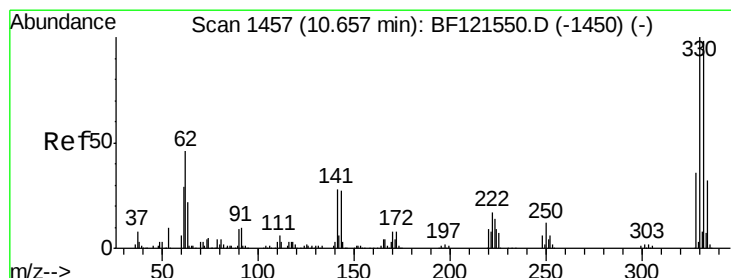
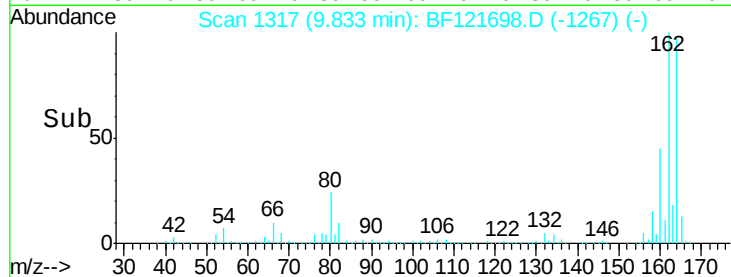
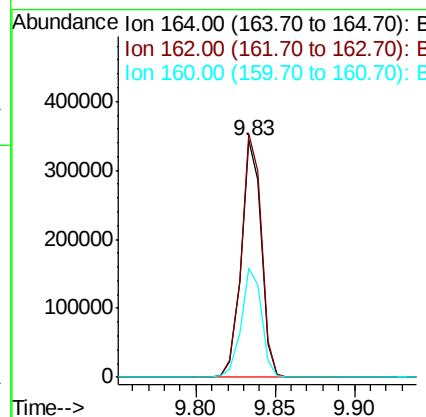
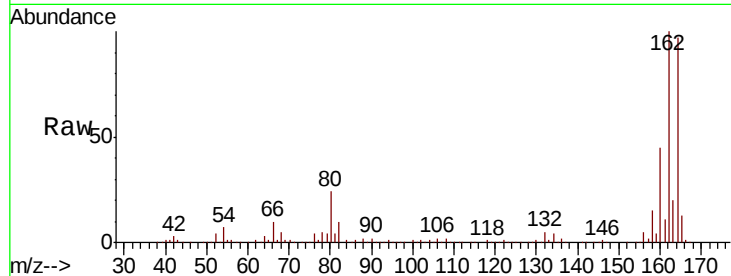
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.7	82.3	123.5	
160	46.3	37.1	55.7	

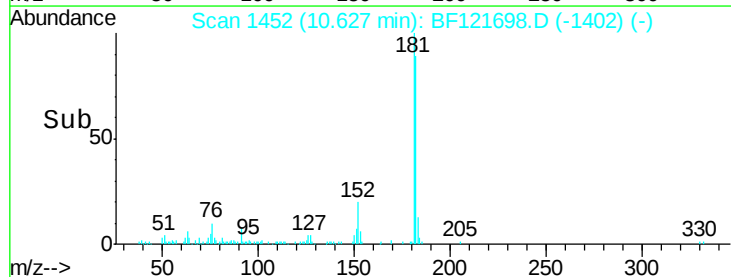
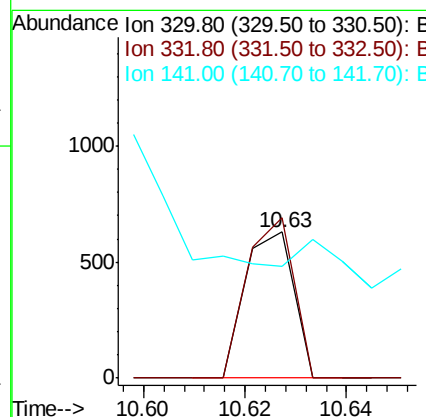
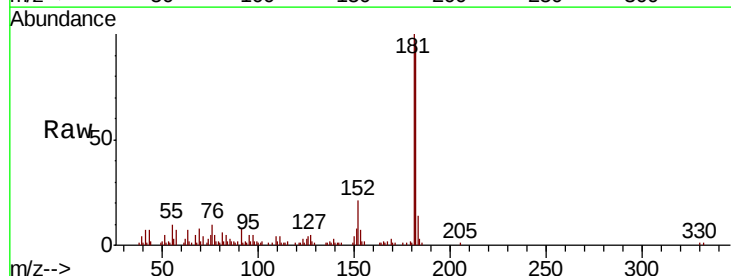
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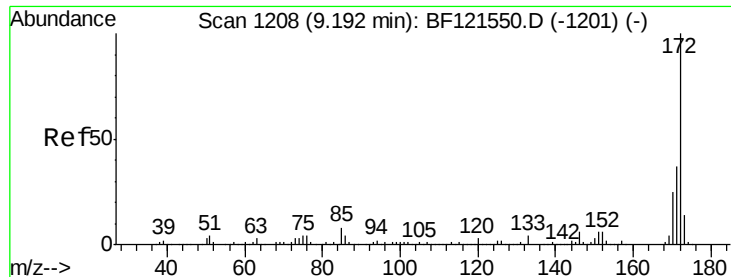
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#42
2,4,6-Tribromophenol
Concen: 0.113 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	105.5	76.7	115.1	
141	0.0	22.2	33.2#	





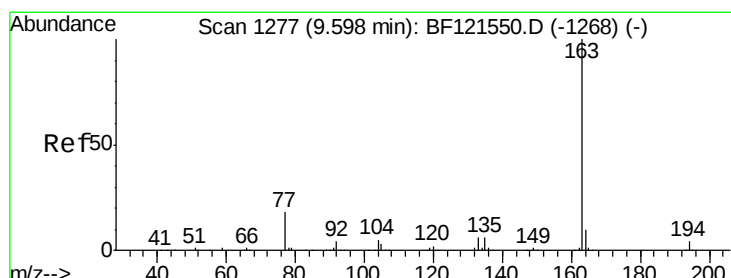
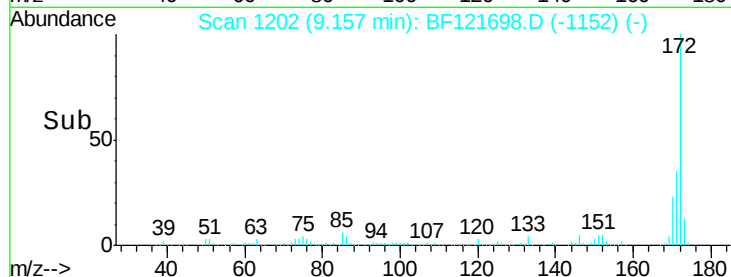
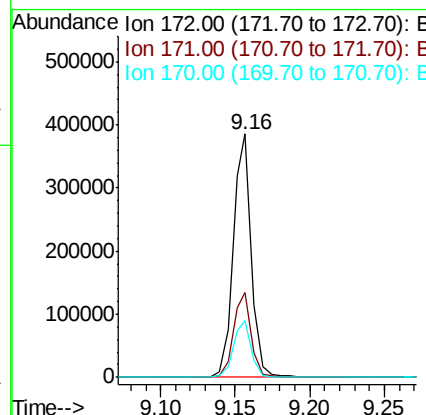
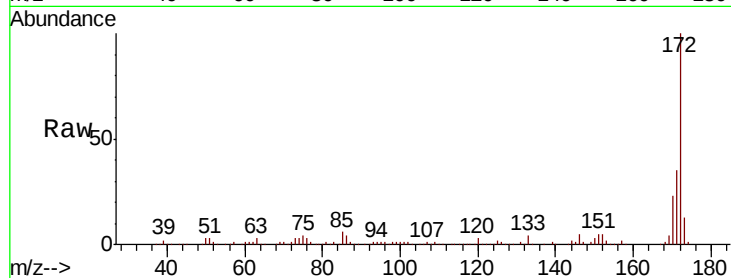
#45
2-Fluorobiphenyl
Concen: 16.676 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2

Tot Ion:	172	Resp:	329750
Ion Ratio	Lower	Upper	
172	100		
171	34.7	29.4	44.0
170	23.3	19.6	29.4

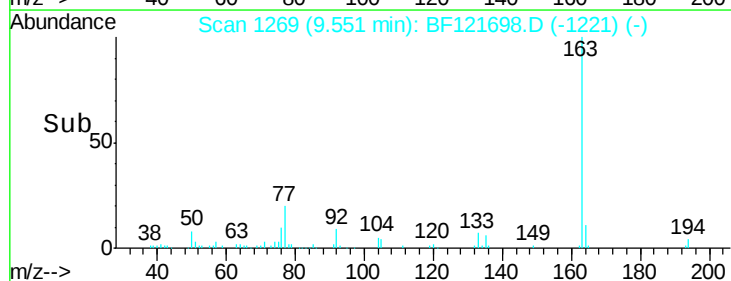
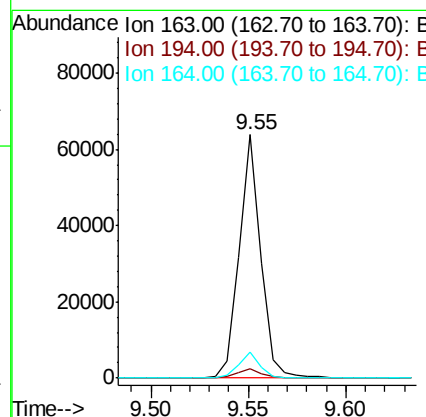
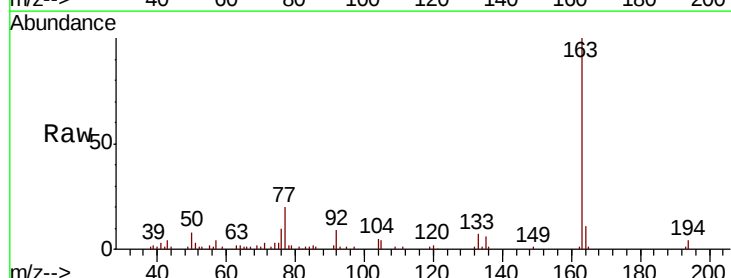
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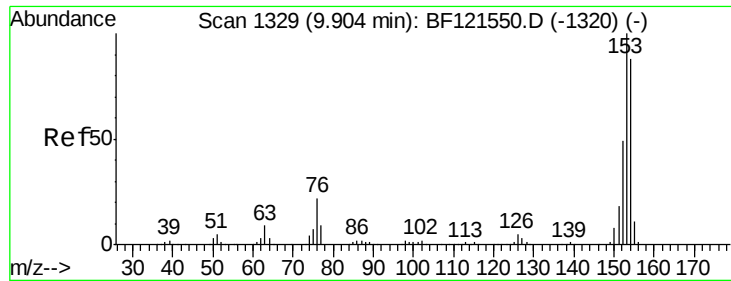
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#50
Dimethylphthalate
Concen: 2.249 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.02 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Tgt Ion:	163	Resp:	48810
Ion Ratio	Lower	Upper	
163	100		
194	3.9	3.1	4.7
164	10.5	8.3	12.5





#52

Acenaphthene

Concen: 9.670 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Instrument :

BNA_F

ClientSampleId :

WR-PILE-1-2

Tot Ion:154 Resp: 177298

Ion Ratio Lower Upper

154 100

153 111.0 89.1 133.7

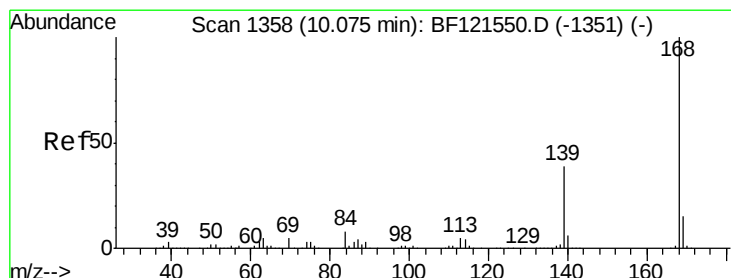
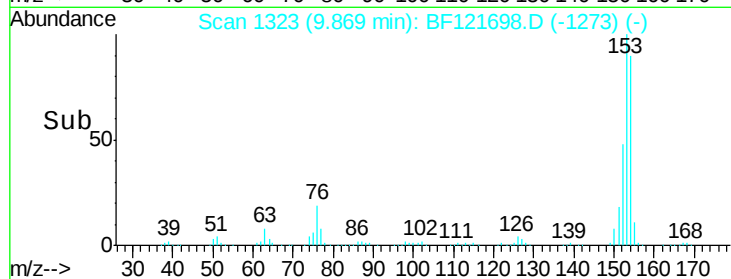
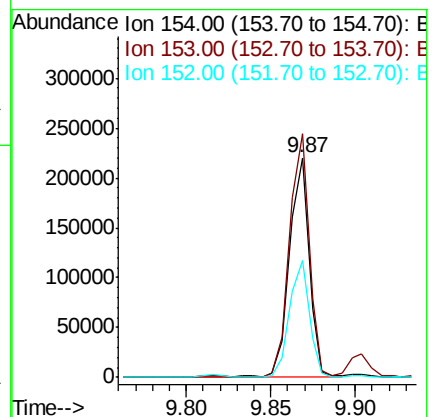
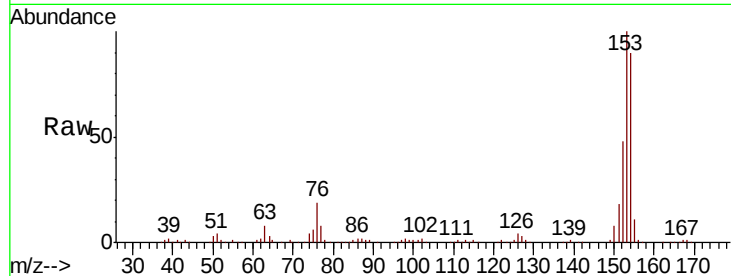
152 53.1 43.0 64.6

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#55

Dibenzofuran

Concen: 9.244 ng

RT: 10.04 min Scan# 1352

Delta R.T. -0.01 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

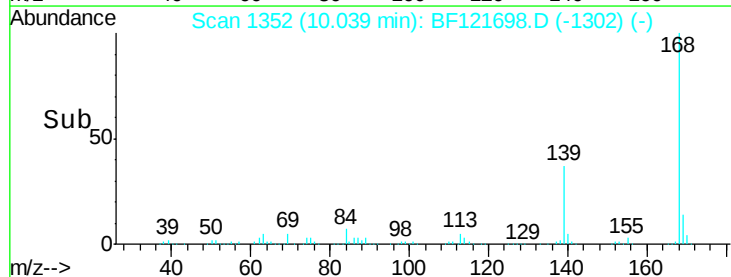
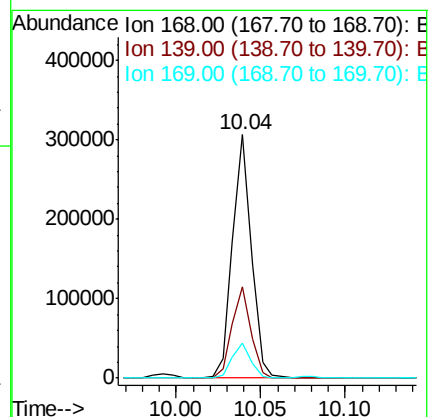
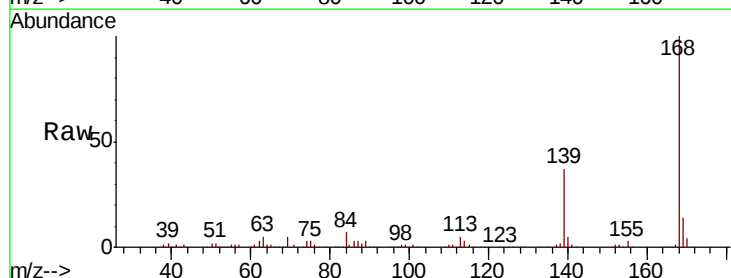
Tgt Ion:168 Resp: 238691

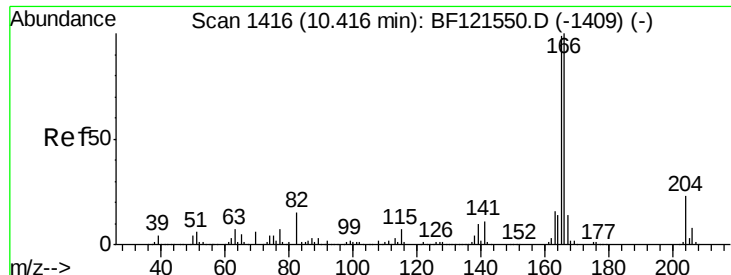
Ion Ratio Lower Upper

168 100

139 37.4 32.2 48.2

169 14.4 11.8 17.8





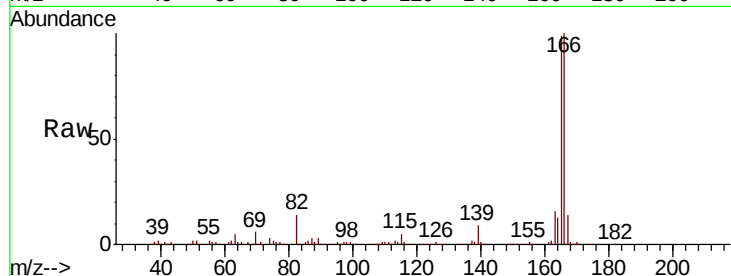
#58
 Fluorene
 Concen: 11.295 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. -0.01 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.7	118.1
167	14.0	10.6	16.0

Manual Integrations
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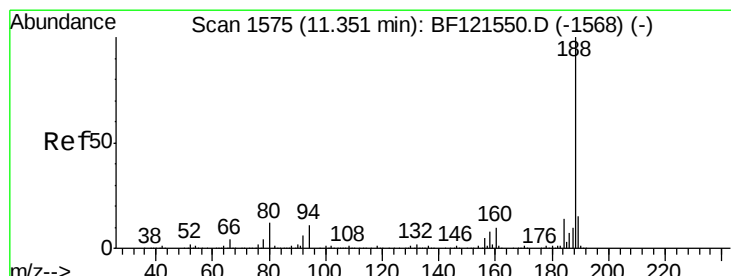
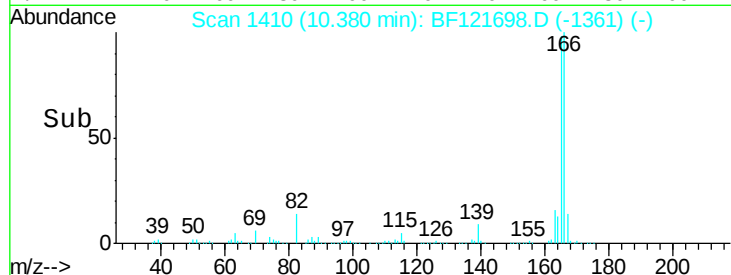
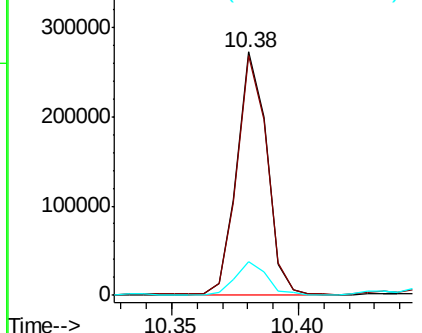


Abundance

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: 11.33 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

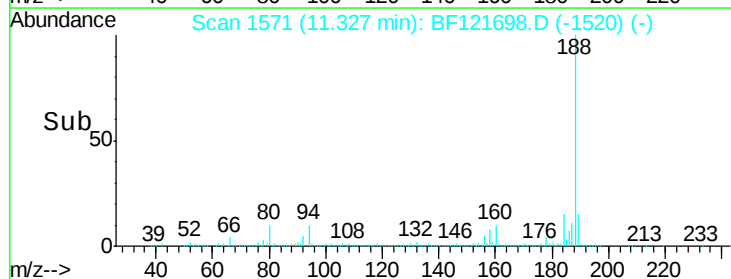
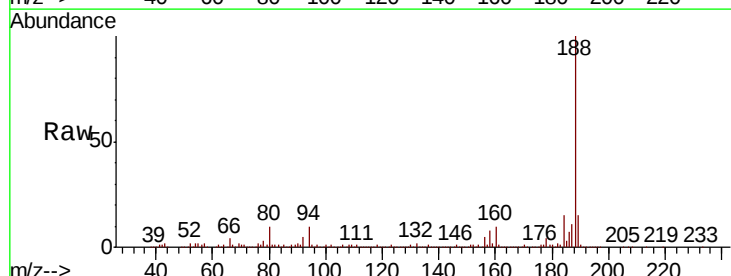
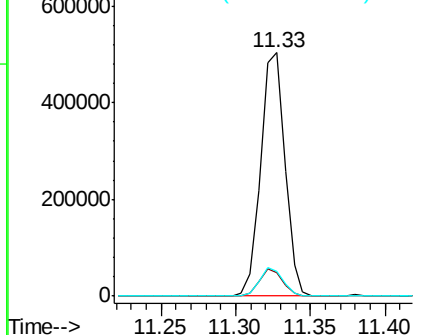
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	10.2	8.6	13.0

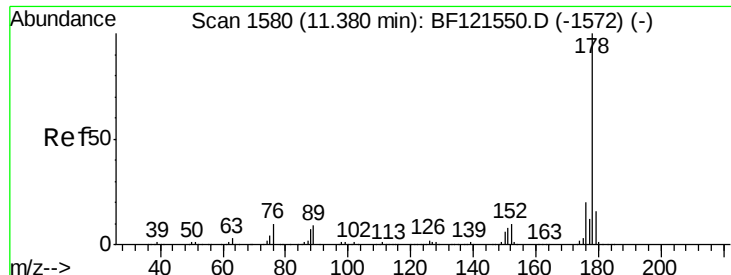
Abundance

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





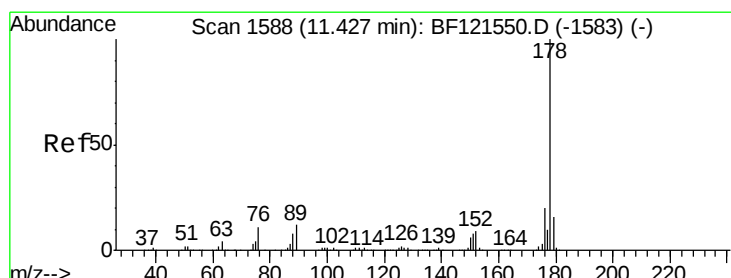
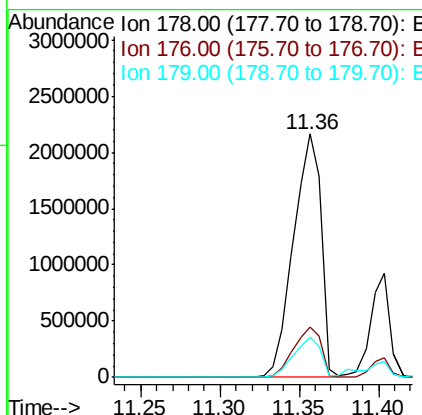
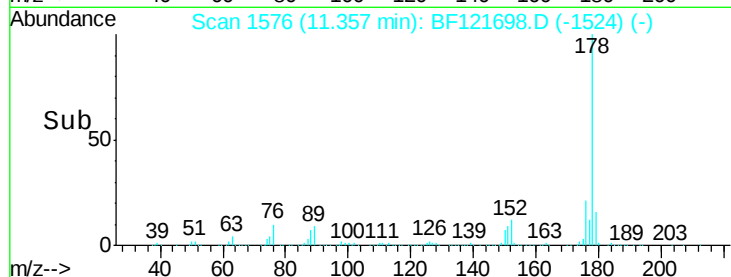
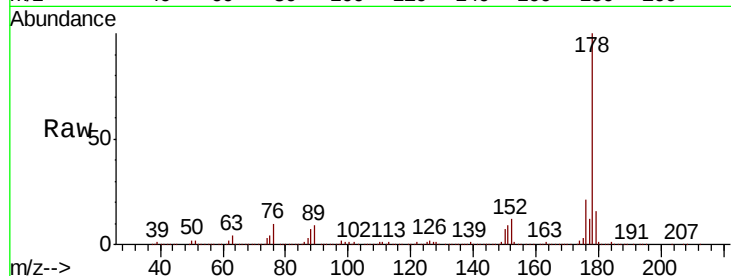
#71
Phenanthrene
Concen: 85.051 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2

Tot Ion:178 Resp: 2606888
Ion Ratio Lower Upper
178 100
176 20.6 15.8 23.8
179 16.4 12.6 19.0

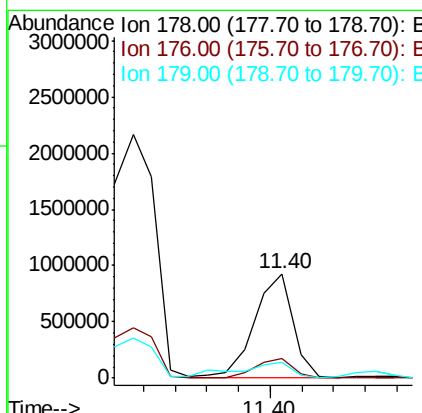
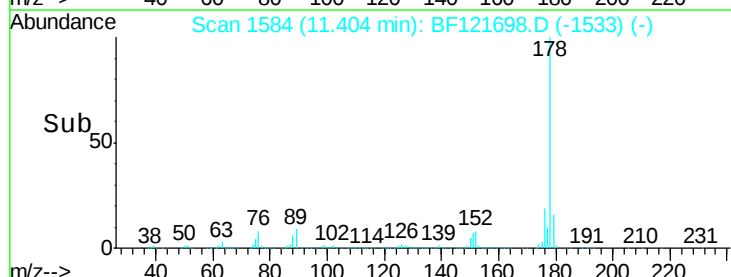
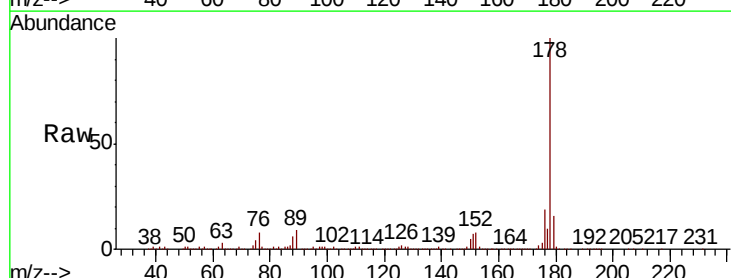
Manual Integrations
APPROVED

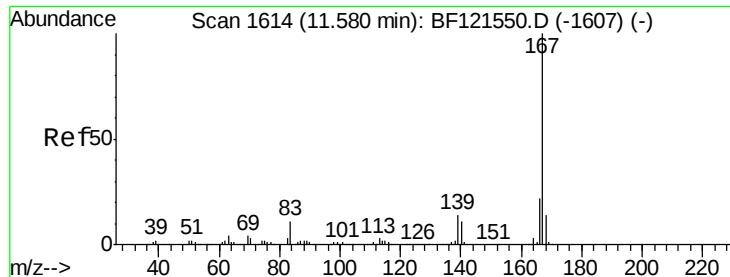
mohammad
9/28/2020 11:10:37 AM



#72
Anthracene
Concen: 24.588 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.00 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Tgt Ion:178 Resp: 777728
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.6
179 15.7 12.9 19.3





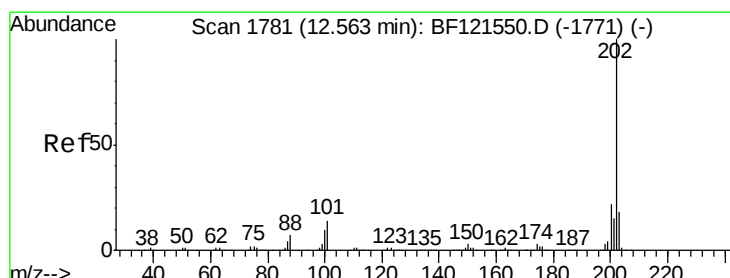
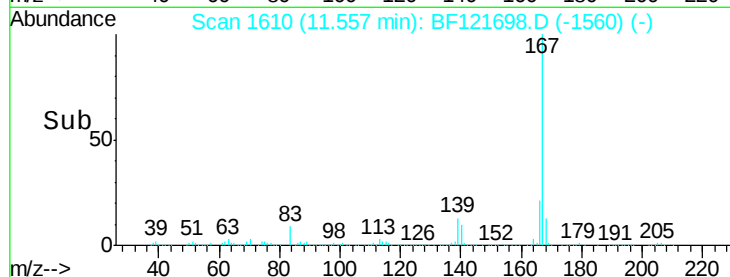
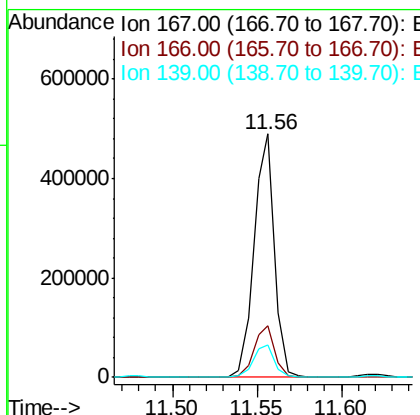
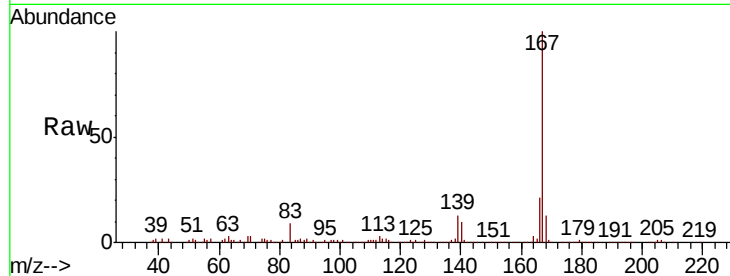
#73
 Carbazole
 Concen: 14.409 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.2	18.0	27.0
139	13.2	10.6	15.8

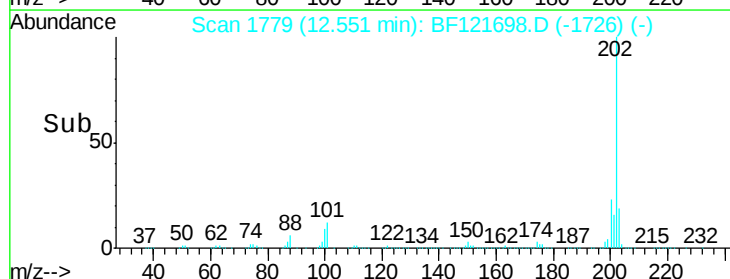
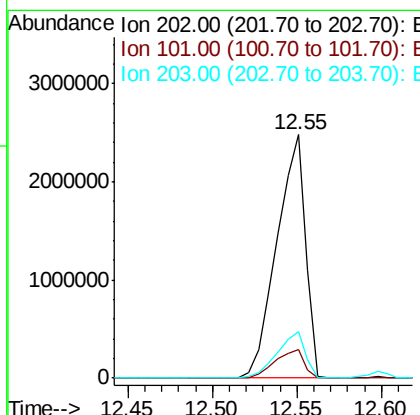
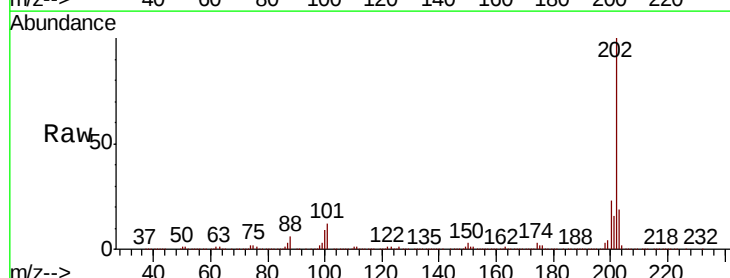
Manual Integrations
 APPROVED

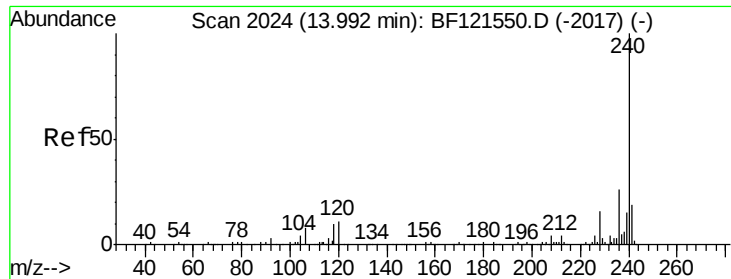
mohammad
 9/28/2020 11:10:37 AM



#75
 Fluoranthene
 Concen: 89.676 ng
 RT: 12.55 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	33.2
203	18.9	0.0	38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Instrument :

BNA_F

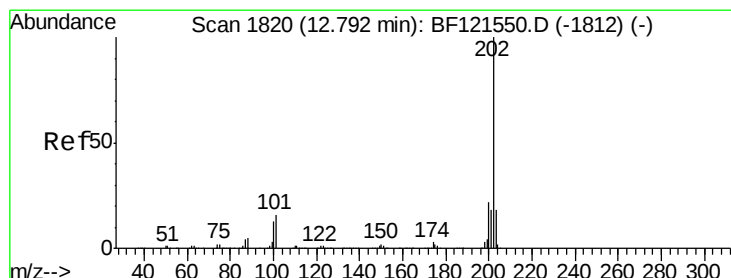
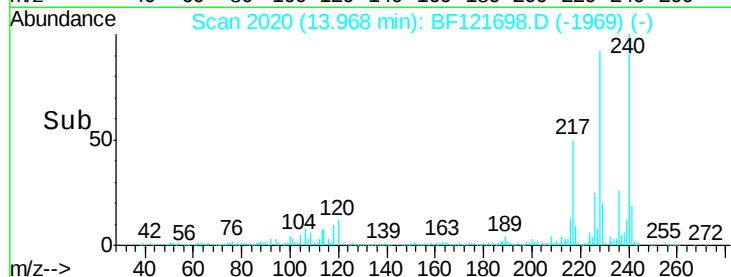
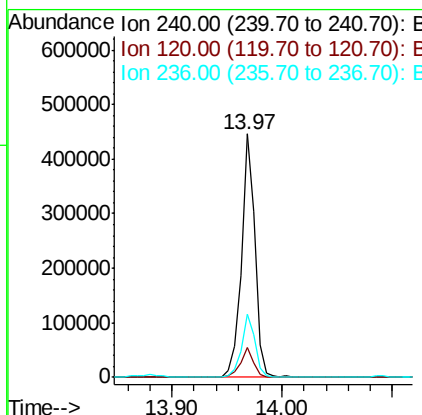
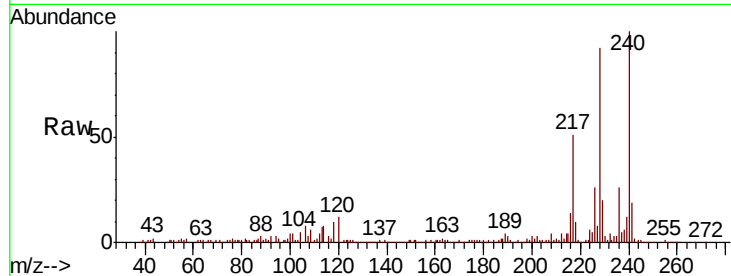
ClientSampleId :

WR-PILE-1-2

Tot Ion:	240	Resp:	384577
Ion Ratio		Lower	Upper
240	100		
120	12.4	9.9	14.9
236	25.9	20.6	31.0

Manual Integrations
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mohammad
9/28/2020 11:10:37 AM



#78

Pyrene

Concen: 89.005 ng

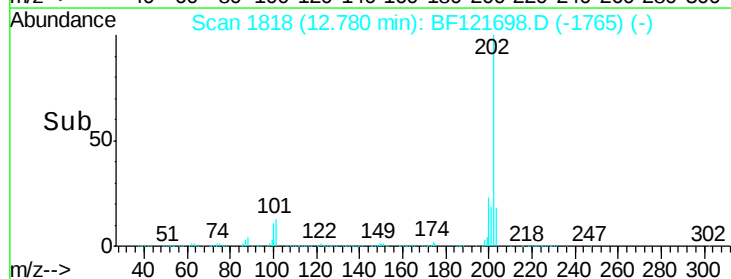
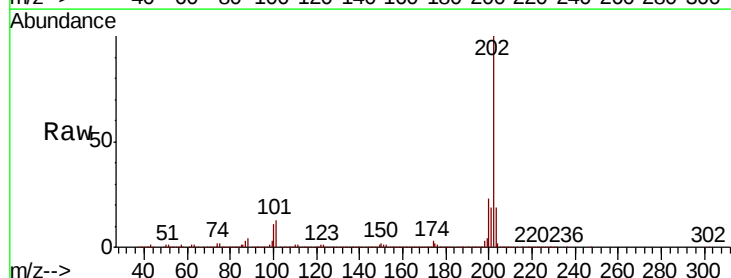
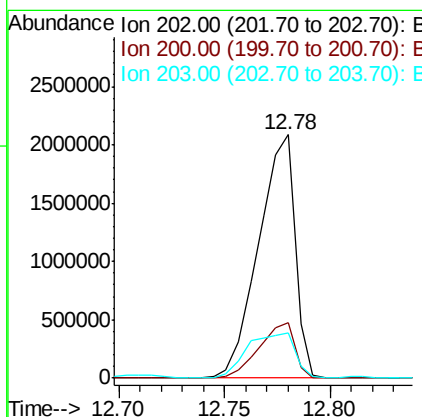
RT: 12.78 min Scan# 1818

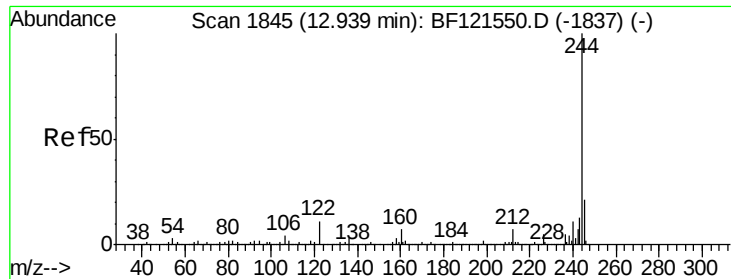
Delta R.T. 0.01 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Tgt Ion:	202	Resp:	2500908
Ion Ratio		Lower	Upper
202	100		
200	22.9	17.8	26.6
203	18.6	14.6	21.8





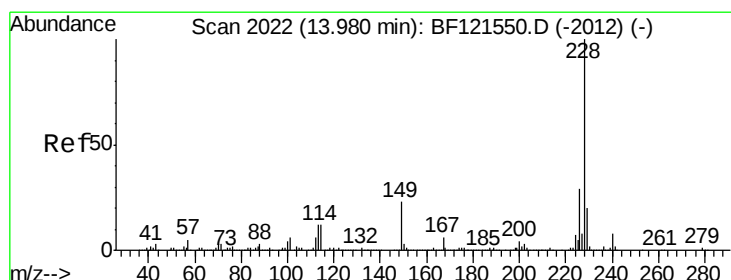
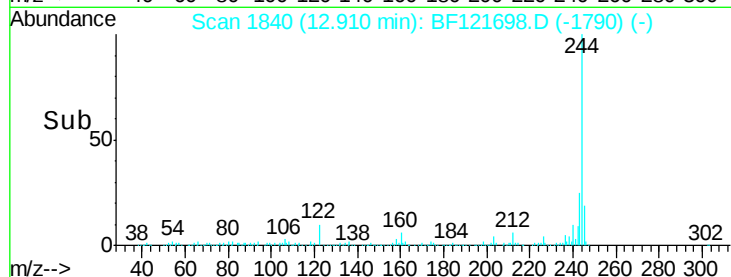
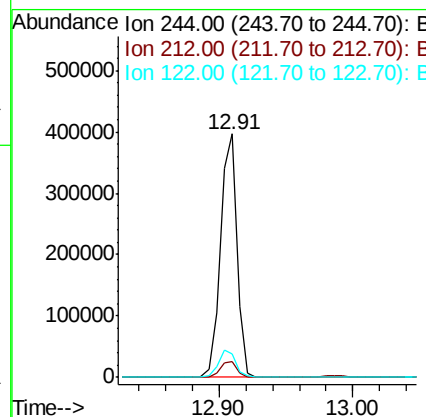
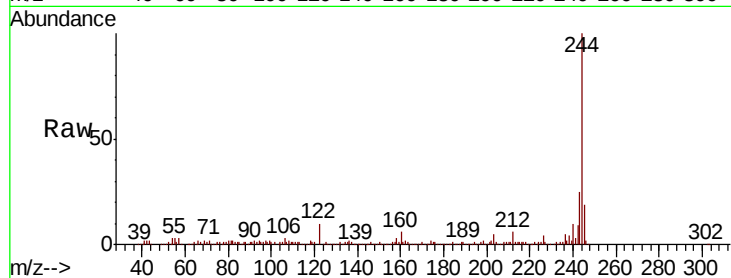
#79
 Terphenyl-d14
 Concen: 18.288 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Instrument :
 BNA_F
 ClientSampled :
 WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.8	8.6
122	9.7	8.2	12.4

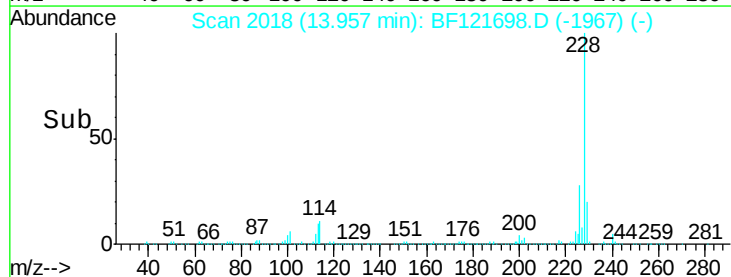
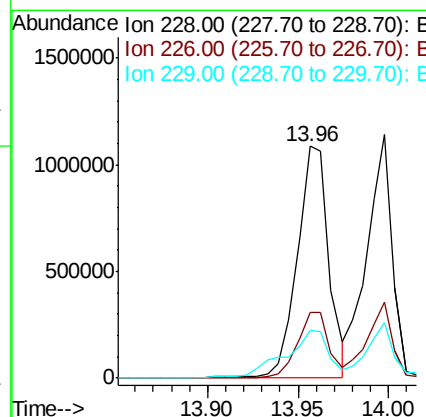
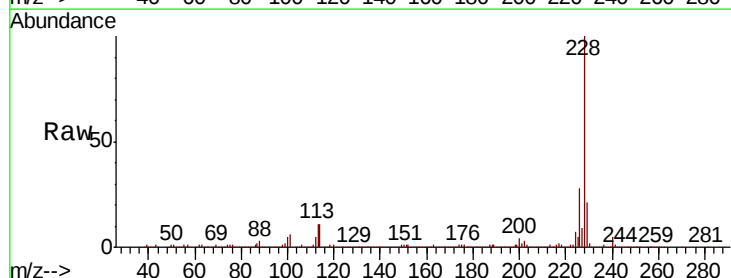
Manual Integrations
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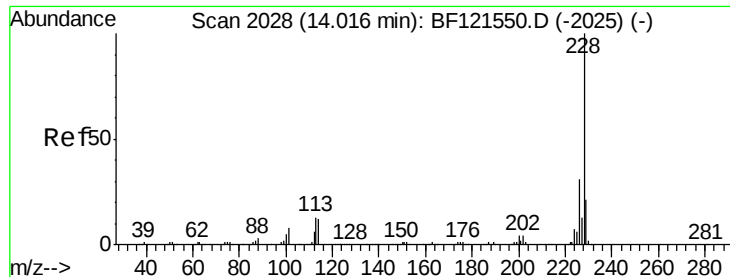
mohammad
 9/28/2020 11:10:37 AM



#81
 Benzo(a)anthracene
 Concen: 54.663 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.00 min
 Lab File: BF121698.D
 Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.7	16.3	24.5





#83

Chrysene

Concen: 45.105 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.00 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Instrument :

BNA_F

ClientSampleId :

WR-PILE-1-2

Tot Ion:228 Resp: 1111286

Ion Ratio Lower Upper

228 100

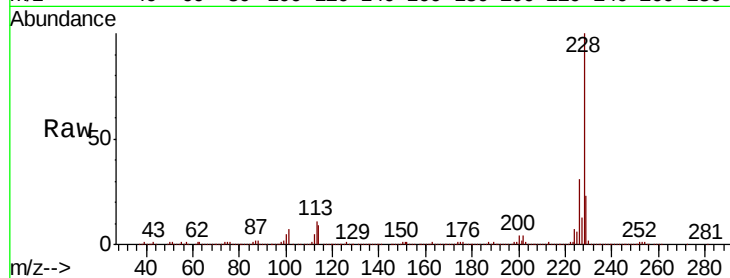
226 31.2 25.4 38.0

229 22.8 16.2 24.2

Manual Integrations
APPROVED

mohammad

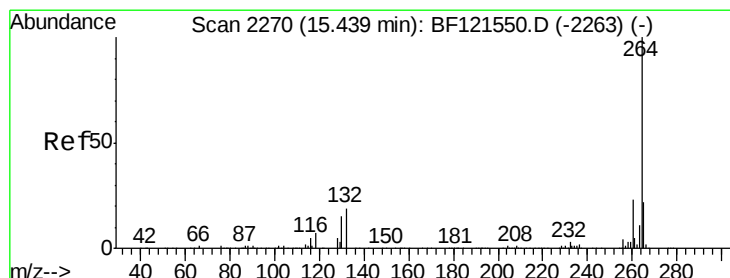
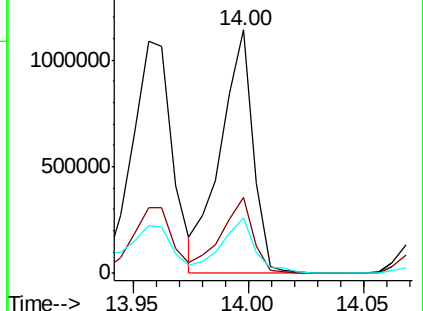
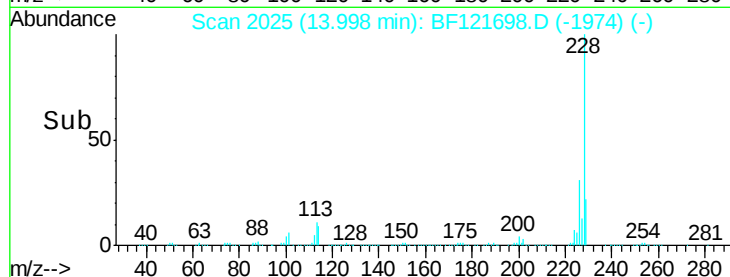
9/28/2020 11:10:37 AM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2266

Delta R.T. -0.00 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

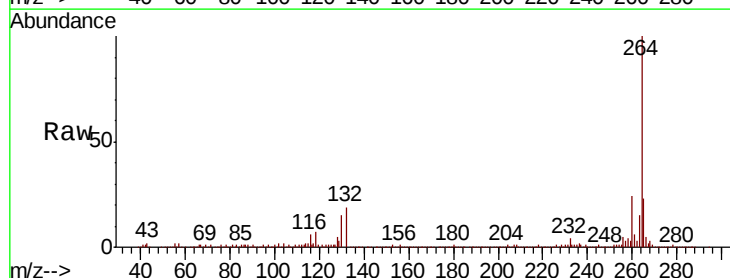
Tgt Ion:264 Resp: 335216

Ion Ratio Lower Upper

264 100

260 24.2 18.4 27.6

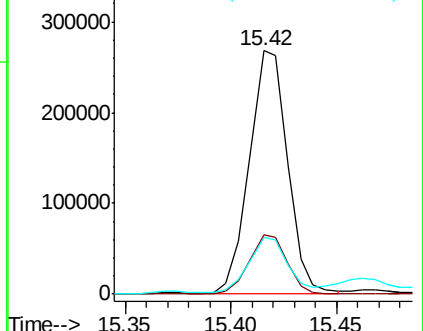
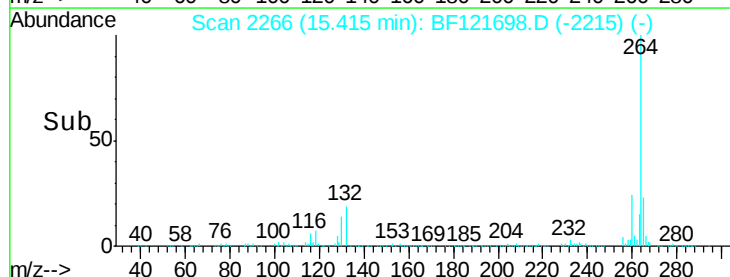
265 23.3 17.6 26.4

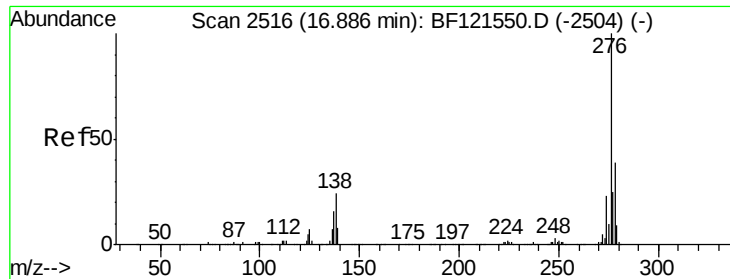


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





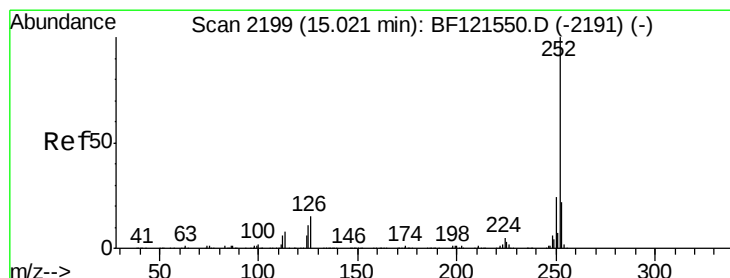
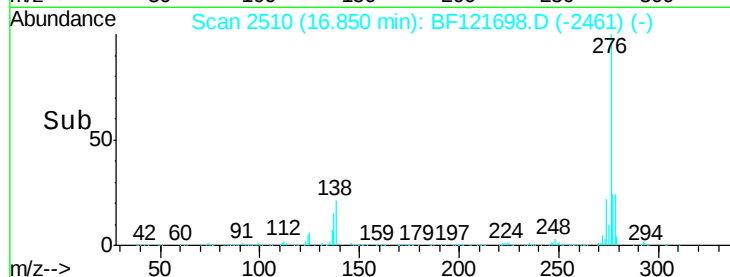
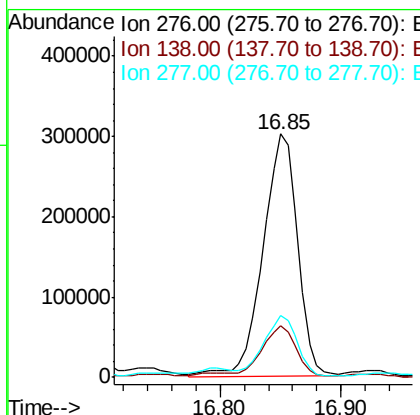
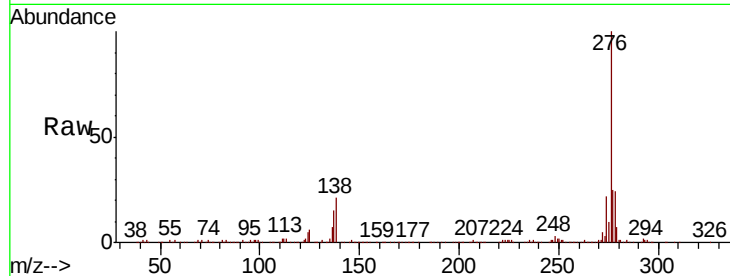
#87
Indeno(1,2,3-cd)pyrene
Concen: 27.700 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.3	19.2	28.8
277	23.8	20.1	30.1

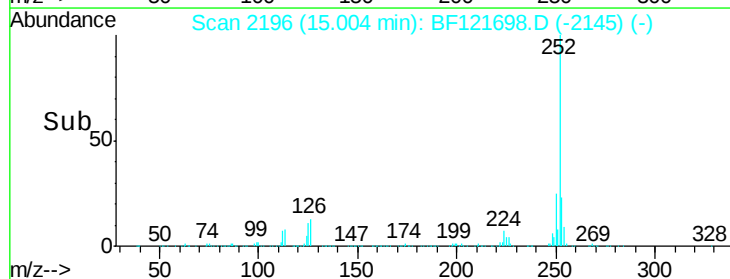
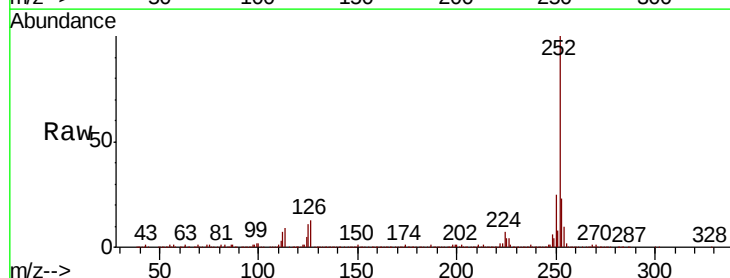
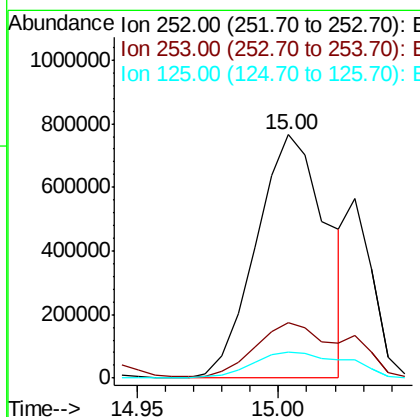
Manual Integrations
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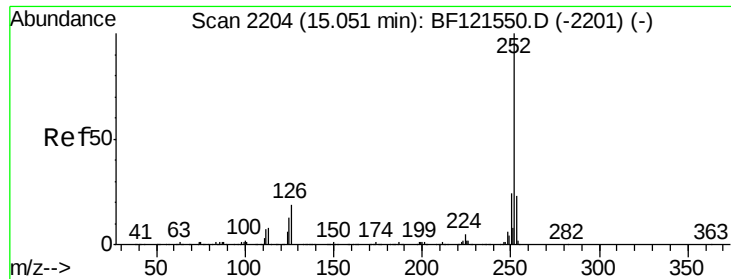
mohammad
9/28/2020 11:10:37 AM



#88
Benzo(b)fluoranthene
Concen: 59.237 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.00 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	10.8	7.8	11.6





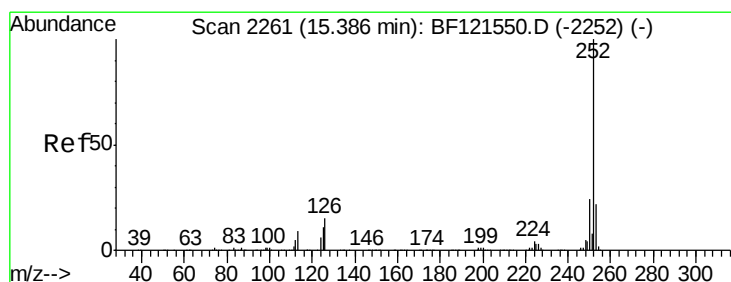
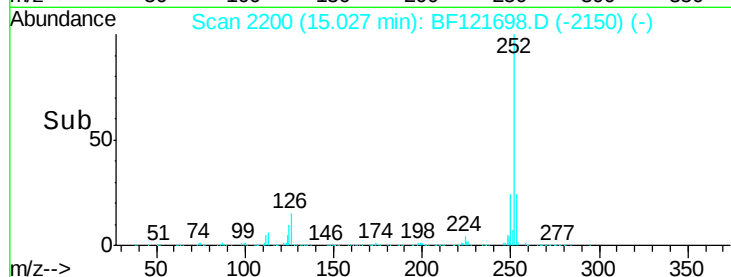
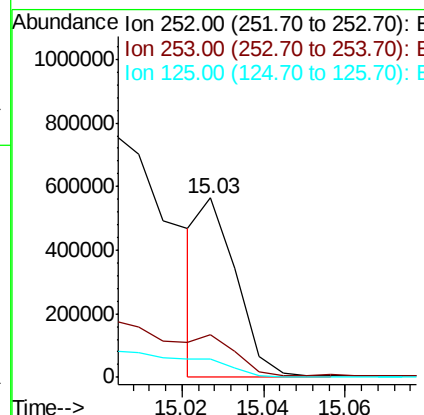
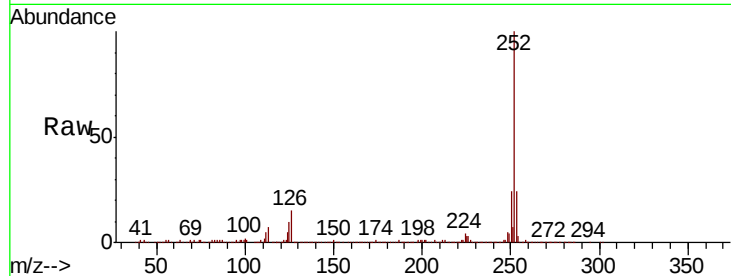
#89
Benzo(k)fluoranthene
Concen: 17.136 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.0	27.0
125	10.0	8.2	12.4

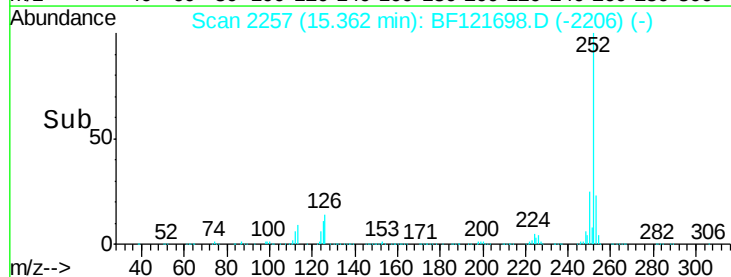
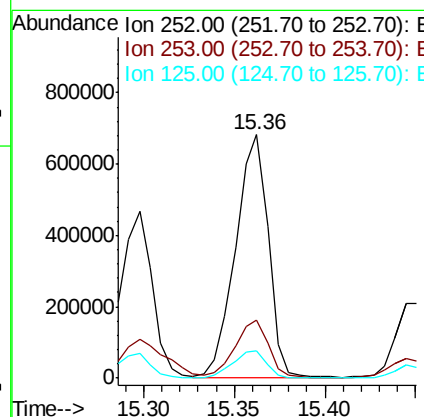
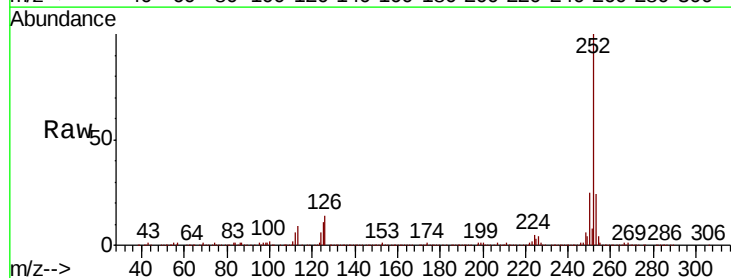
Manual Integrations
APPROVED

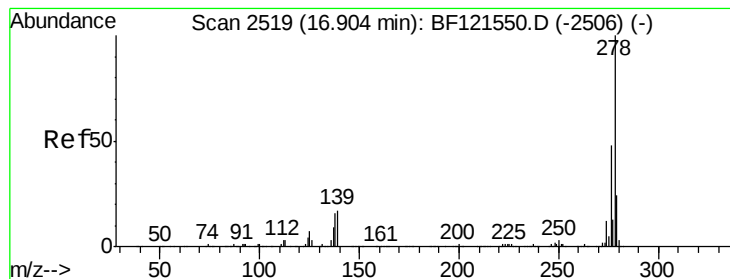
mohammad
9/28/2020 11:10:37 AM



#90
Benzo(a)pyrene
Concen: 44.769 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.00 min
Lab File: BF121698.D
Acq: 25 Sep 2020 16:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	11.3	9.1	13.7





#91

Dibenzo(a,h)anthracene

Concen: 8.420 ng

RT: 16.86 min Scan# 2511

Delta R.T. -0.02 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Instrument :

BNA_F

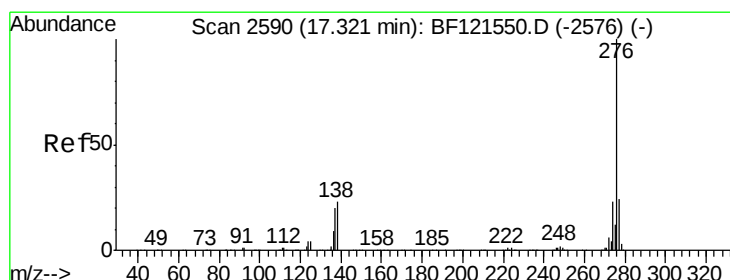
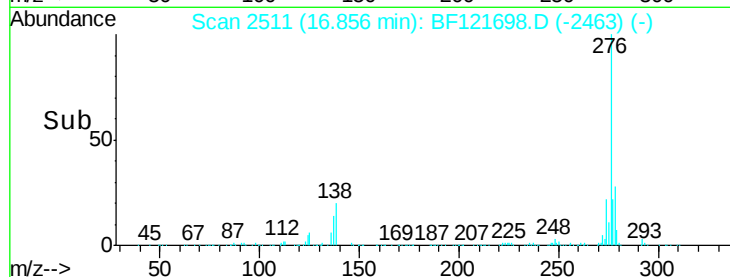
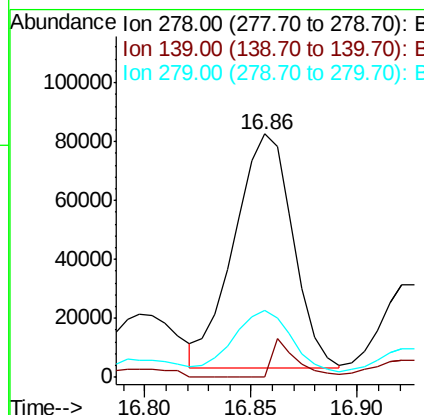
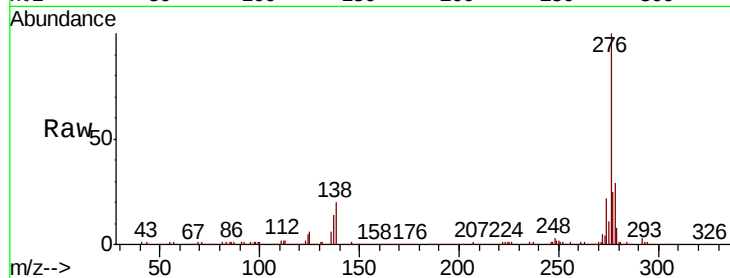
ClientSampleId :

WR-PILE-1-2

Tot Ion:	278	Resp:	153004
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.6	19.0#
279	27.7	19.4	29.2

Manual Integrations
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mohammad
9/28/2020 11:10:37 AM



#92

Benzo(g,h,i)perylene

Concen: 31.140 ng

RT: 17.29 min Scan# 2584

Delta R.T. -0.01 min

Lab File: BF121698.D

Acq: 25 Sep 2020 16:24

Tgt Ion:	276	Resp:	556241
Ion Ratio	Lower	Upper	
276	100		
277	23.7	18.7	28.1
138	21.3	16.8	25.2

