

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
 Data File : BF118349.D
 Acq On : 27 Dec 2019 20:33
 Operator : JU
 Sample : K6437-02DL 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GP-2-(3-5)DL

Manual Integrations
 APPROVED

mohammad
 12/29/2019 5:27:57 PM

Quant Time: Dec 28 02:40:56 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	139124	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	549859	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	264307	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	415460	20.00	ng	0.00
76) Chrysene-d12	14.05	240	334096	20.00	ng	0.00
87) Perylene-d12	15.54	264	365840	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	65960	8.09	ng	0.00
7) Phenol-d6	6.49	99	88470	8.75	ng	0.00
23) Nitrobenzene-d5	7.42	82	49743	5.17	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	21507	6.59	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	105140	6.07	ng	0.00
79) Terphenyl-d14	12.98	244	98939	4.91	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.16	128	80854	2.893	ng	99
49) Acenaphthylene	9.76	152	112315	4.501	ng	99
52) Acenaphthene	9.93	154	40124	2.640	ng	98
55) Dibenzofuran	10.10	168	151725	6.756	ng	99
58) Fluorene	10.45	166	203309	11.214	ng	99
71) Phenanthrene	11.42	178	1618533	71.462	ng	100
72) Anthracene	11.47	178	248066	10.942	ng	98
73) Carbazole	11.63	167	174581	8.679	ng	98
75) Fluoranthene	12.62	202	1528988	66.892	ng	99
78) Pyrene	12.85	202	1174155	43.037	ng	99
81) Benzo(a)anthracene	14.04	228	603138	25.791	ng	99
83) Chrysene	14.07	228	532917	23.799	ng	97
86) Indeno(1,2,3-cd)pyrene	17.04	276	213495	11.190	ng	94
88) Benzo(b)fluoranthene	15.10	252	677929m	27.916	ng	
89) Benzo(k)fluoranthene	15.13	252	228128m	9.784	ng	
90) Benzo(a)pyrene	15.48	252	436477	20.403	ng	97
91) Dibenzo(a,h)anthracene	17.04	278	62185m	3.350	ng	
92) Benzo(g,h,i)perylene	17.50	276	169407	9.447	ng	99

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

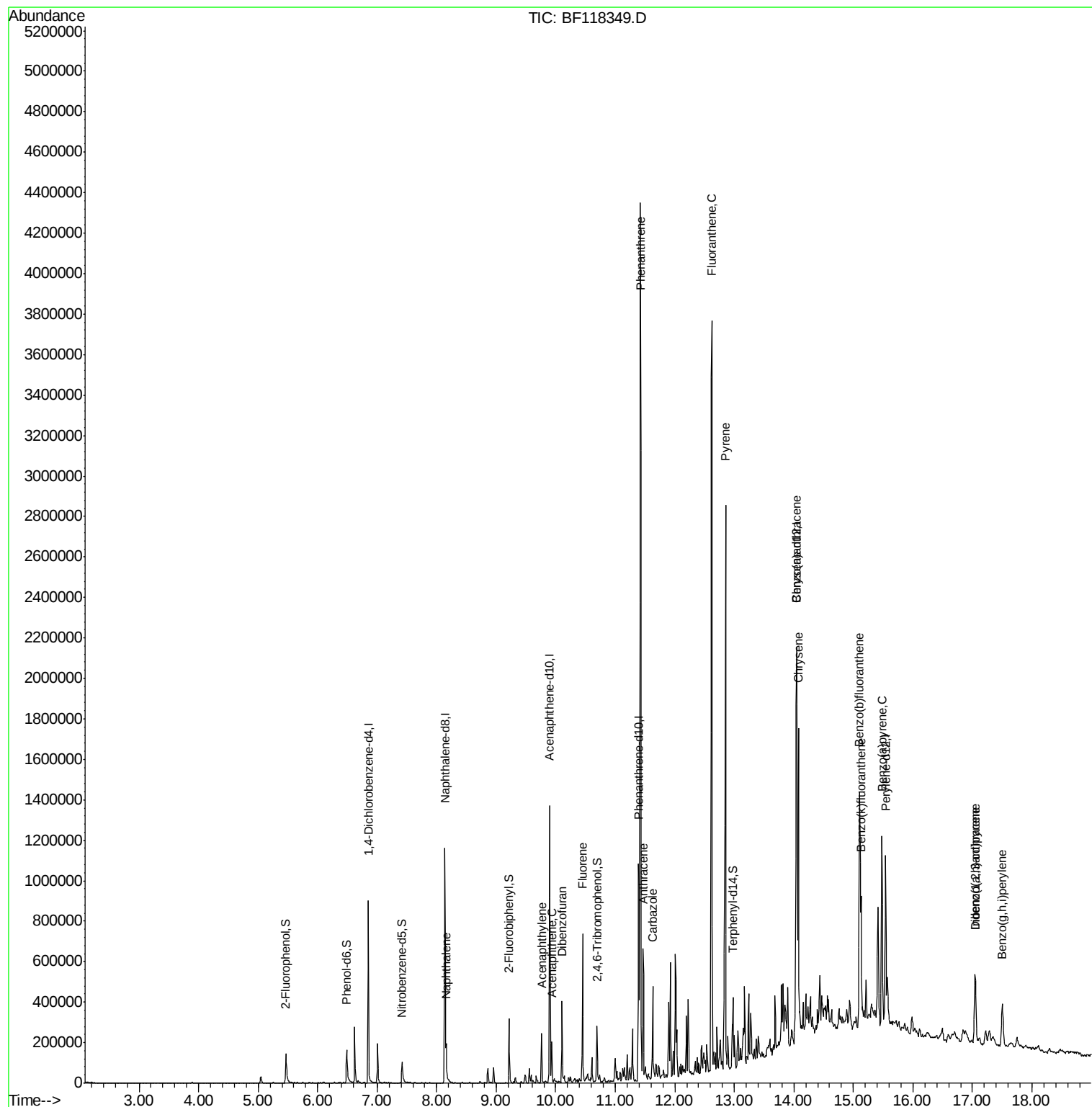
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
Data File : BF118349.D
Acq On : 27 Dec 2019 20:33
Operator : JU
Sample : K6437-02DL 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

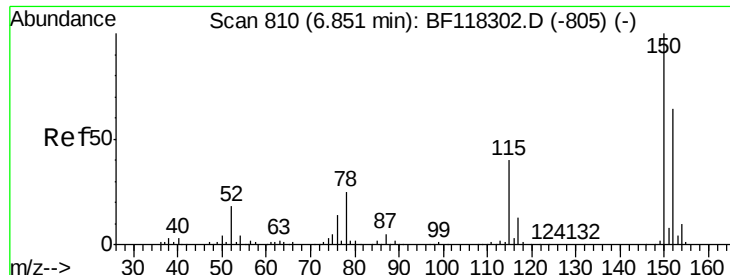
Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM

Quant Time: Dec 28 02:40:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 15:58:52 2019
Response via : Initial Calibration





#1

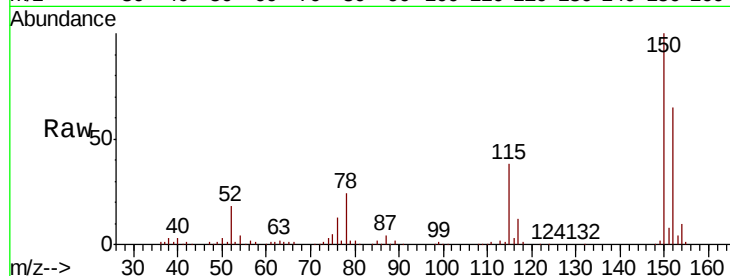
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	125.4	188.2
115	59.0	50.2	75.4

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM

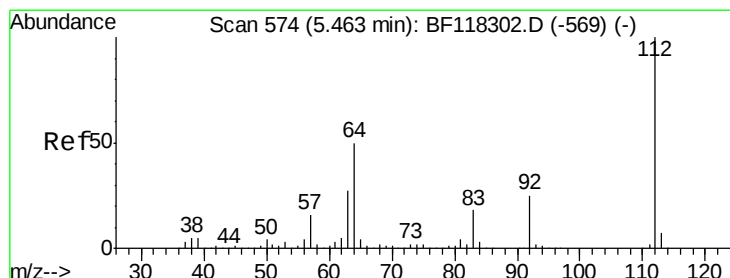
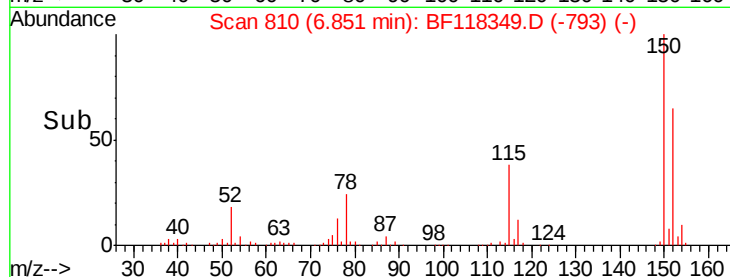
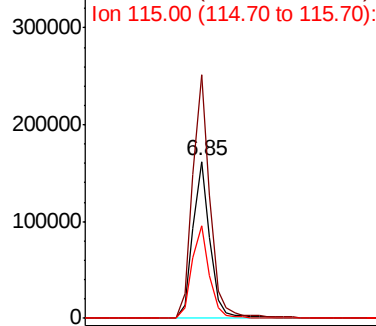


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

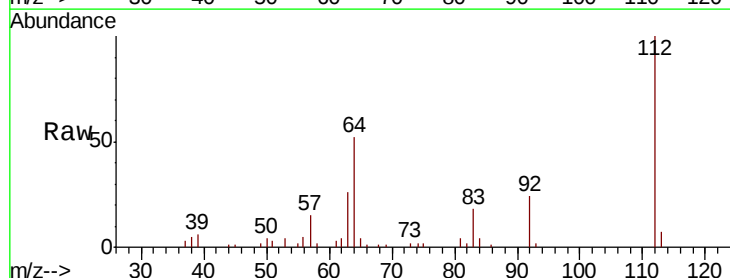
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 8.093 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.7	59.5
63	26.1	21.7	32.5

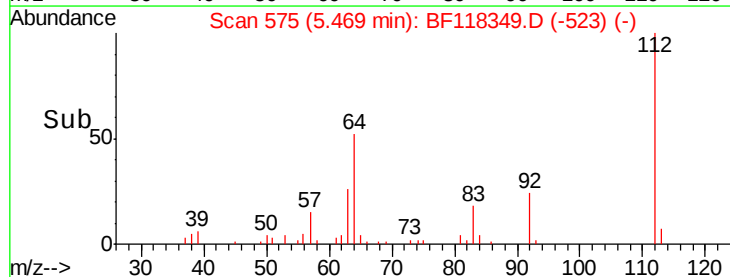
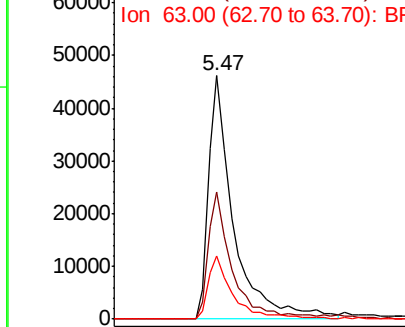


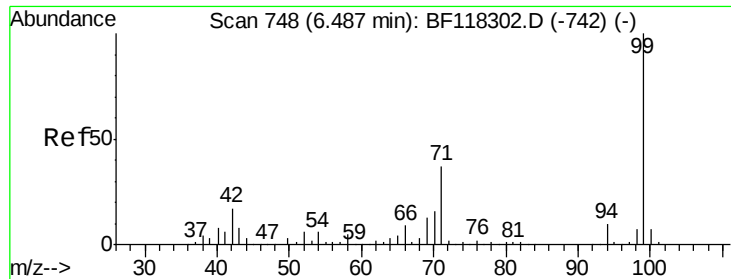
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 8.750 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF118349.D

Acq: 27 Dec 2019 20:33

Instrument :

BNA_F

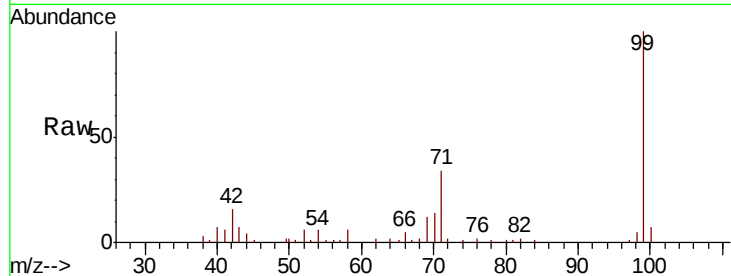
ClientSampleId :

GP-2-(3-5)DL

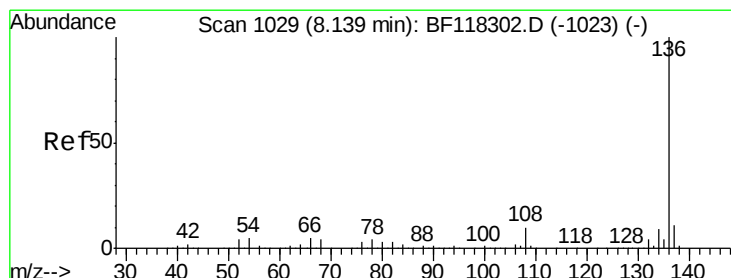
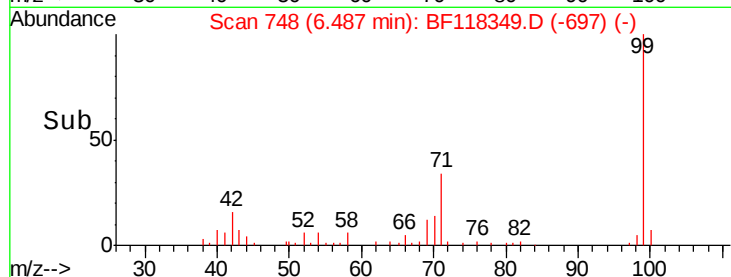
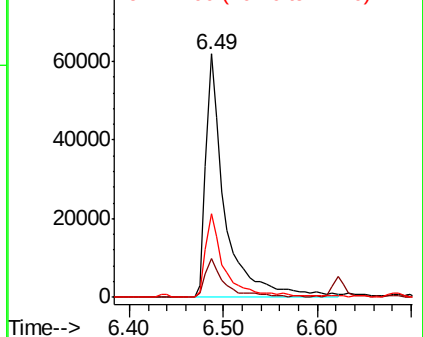
Tot Ion:	99	Resp:	88470
Ion Ratio	Lower	Upper	
99	100		
42	16.0	13.5	20.3
71	34.3	29.4	44.2

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

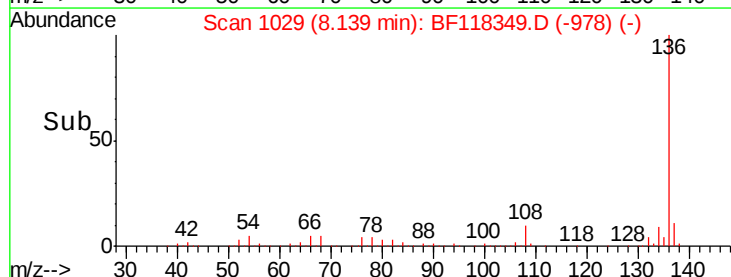
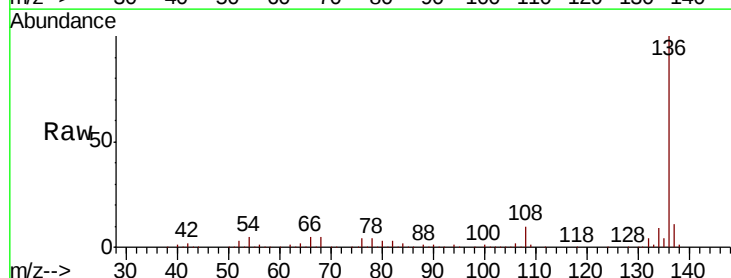
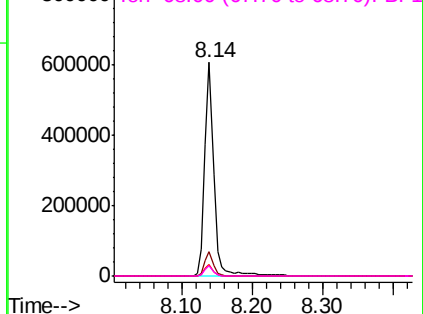
Delta R.T. 0.00 min

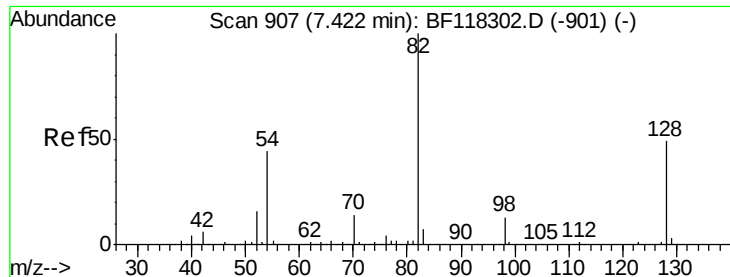
Lab File: BF118349.D

Acq: 27 Dec 2019 20:33

Tgt Ion:	136	Resp:	549859
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	5.3	4.2	6.4
68	4.7	3.5	5.3

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





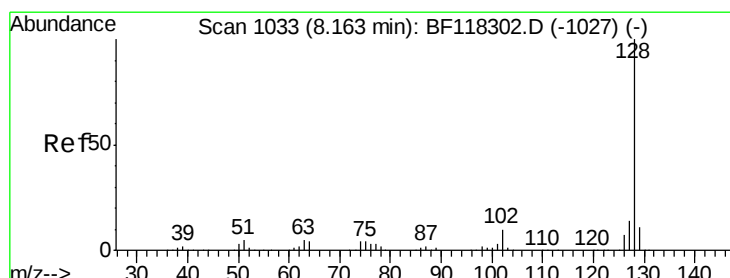
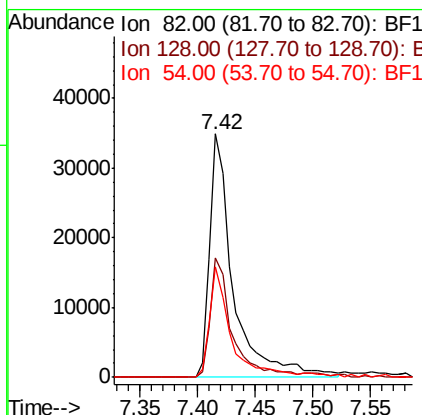
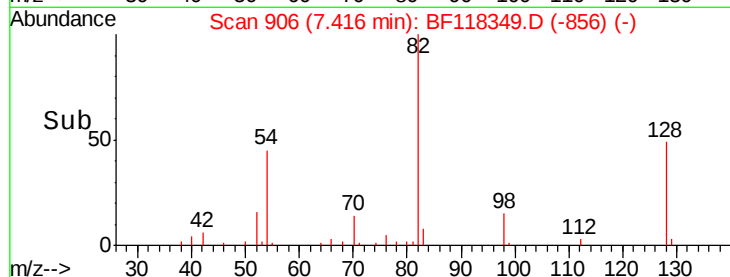
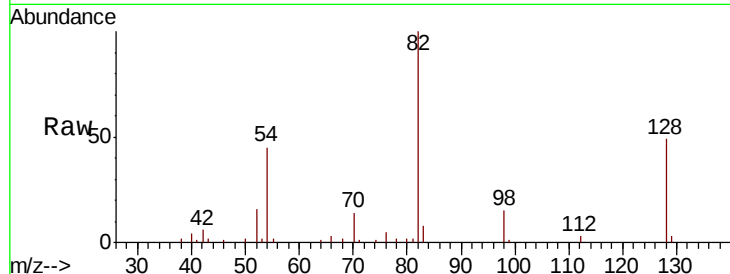
#23
Nitrobenzene-d5
Concen: 5.174 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.3	39.6	59.4
54	45.3	34.9	52.3

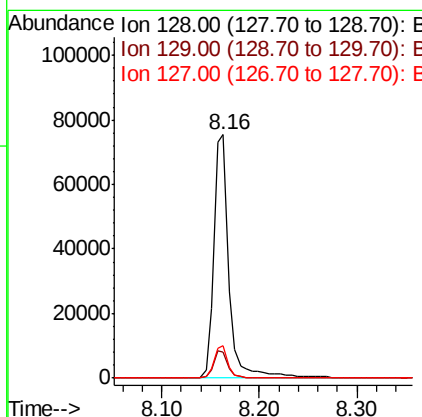
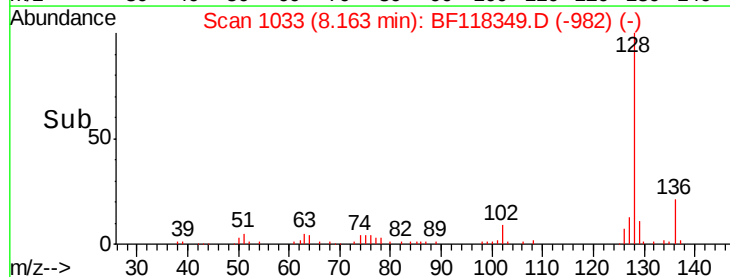
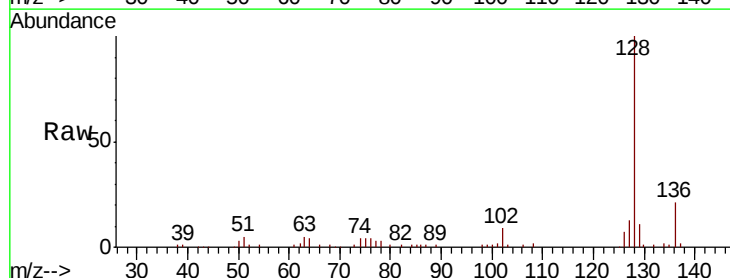
Manual Integrations
APPROVED

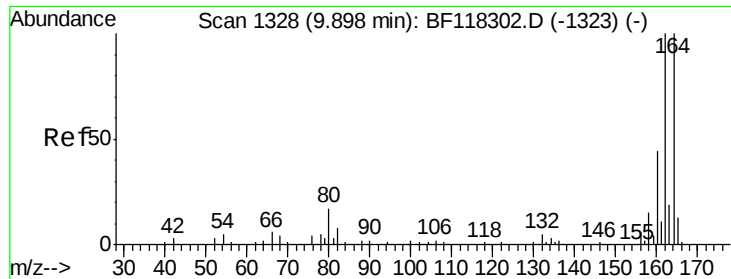
mohammad
12/29/2019 5:27:57 PM



#31
Naphthalene
Concen: 2.893 ng
RT: 8.16 min Scan# 1033
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.4
127	13.2	11.0	16.4





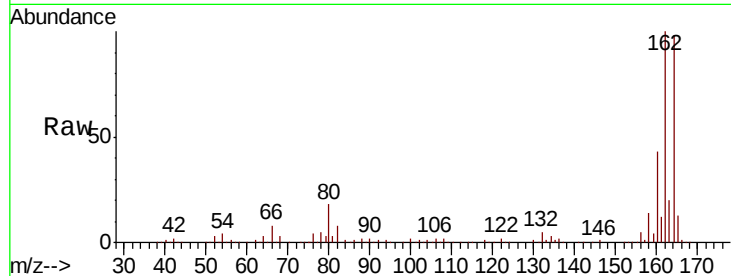
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.0	120.0
160	44.1	34.8	52.2

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM

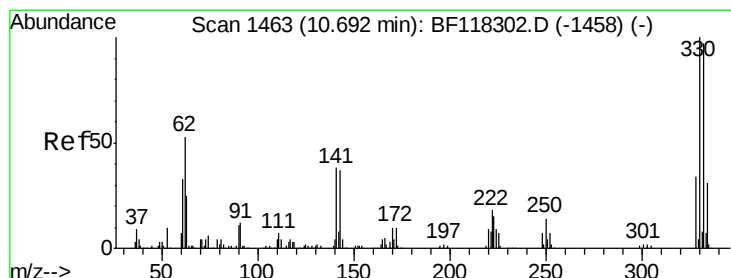
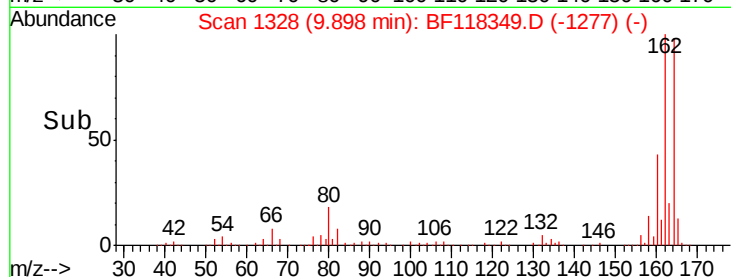
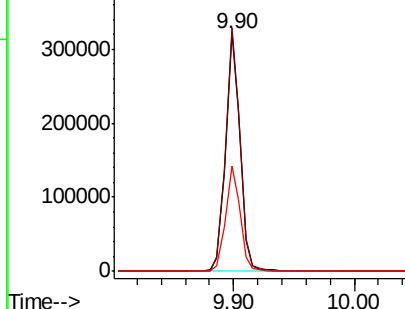


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 6.589 ng
RT: 10.70 min Scan# 1464
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

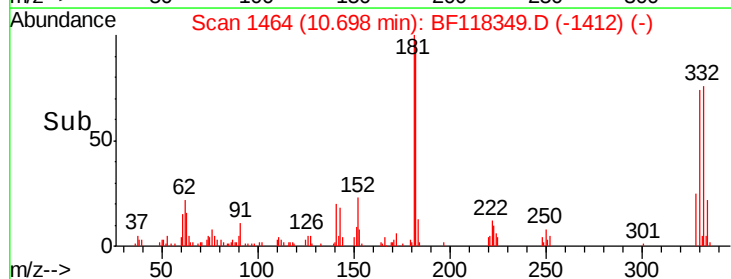
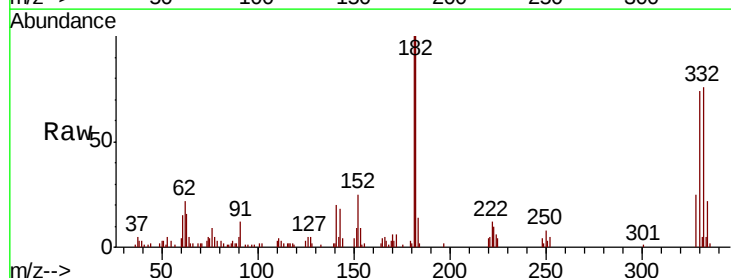
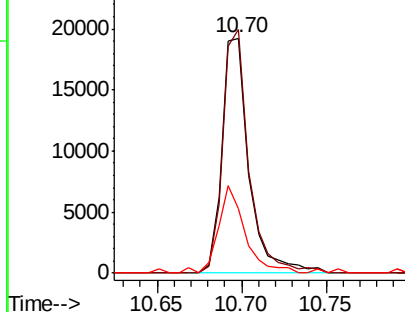
Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.8	76.6	114.8
141	36.9	26.0	39.0

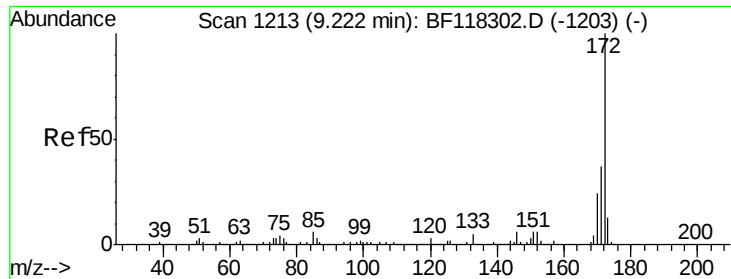
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





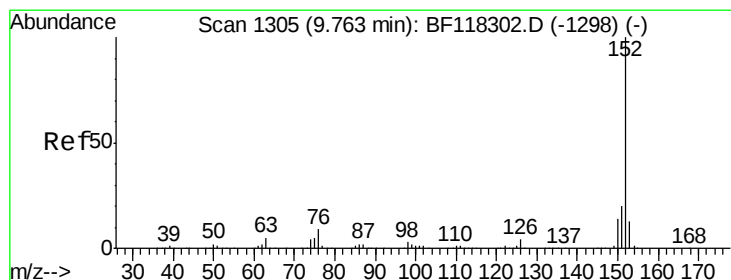
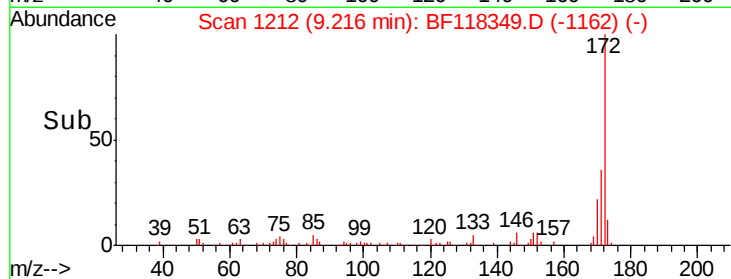
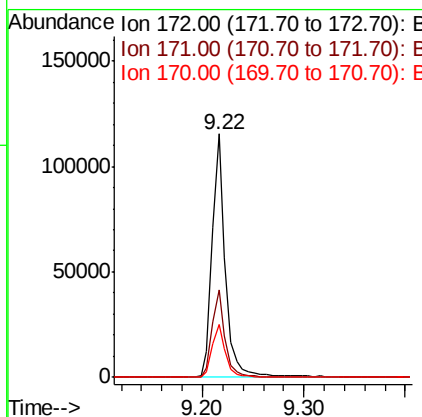
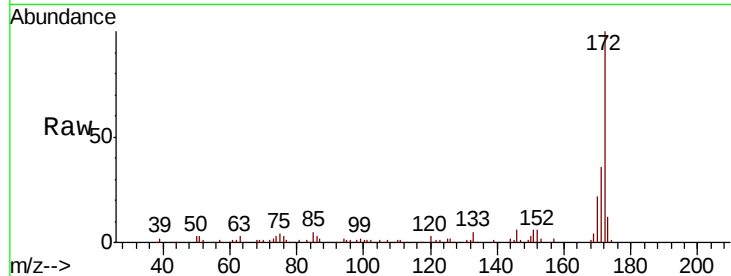
#45
2-Fluorobiphenyl
Concen: 6.072 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
172	100				
171	35.7	29.3	43.9		
170	21.8	19.2	28.8		

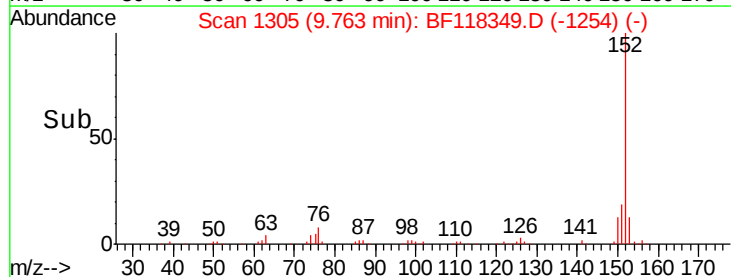
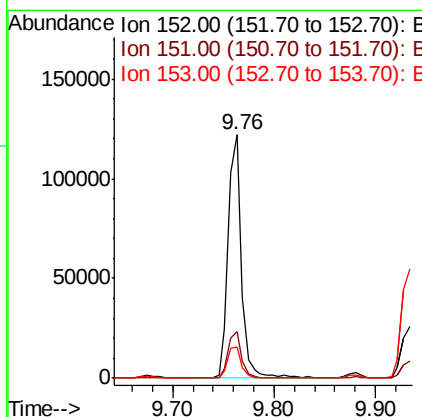
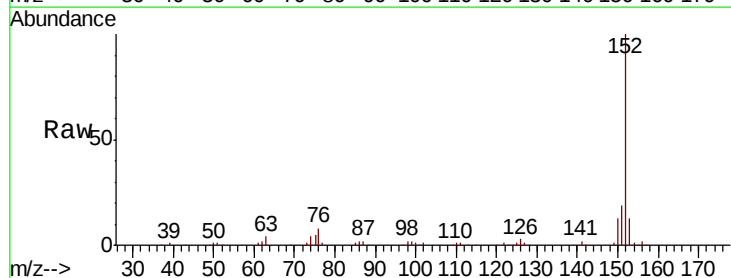
Manual Integrations
APPROVED

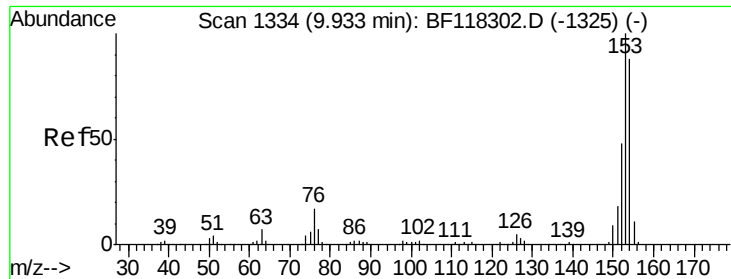
mohammad
12/29/2019 5:27:57 PM



#49
Acenaphthylene
Concen: 4.501 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100				
151	19.2	16.2	24.2		
153	12.9	10.5	15.7		





#52

Acenaphthene

Concen: 2.640 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF118349.D

Acq: 27 Dec 2019 20:33

Instrument :

BNA_F

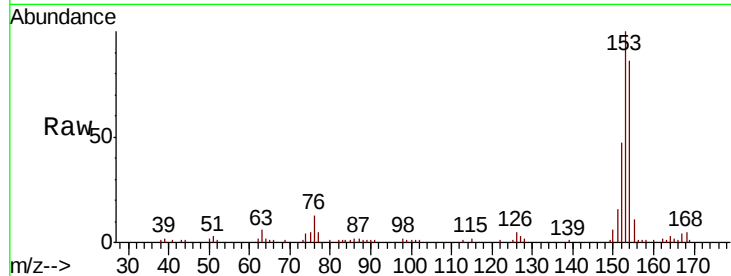
ClientSampleId :

GP-2-(3-5)DL

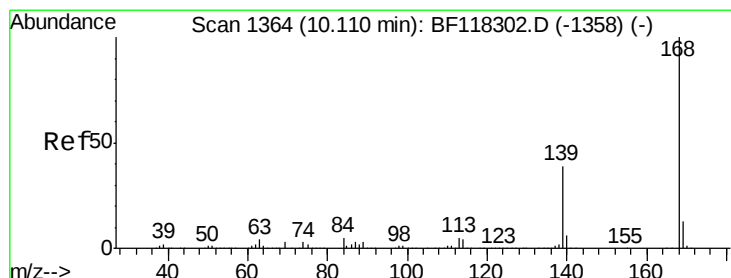
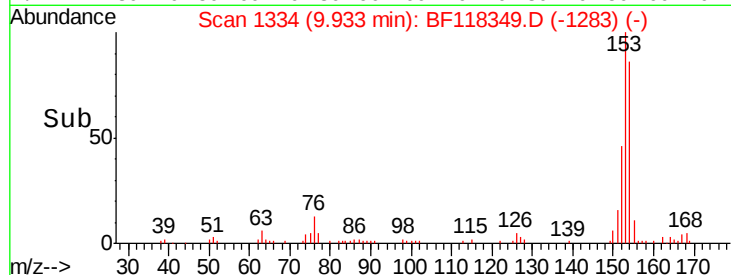
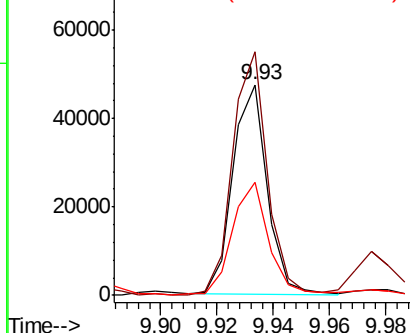
Tot Ion	Ratio	Lower	Upper
154	100		
153	115.7	90.6	136.0
152	54.0	43.1	64.7

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM



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



#55

Dibenzofuran

Concen: 6.756 ng

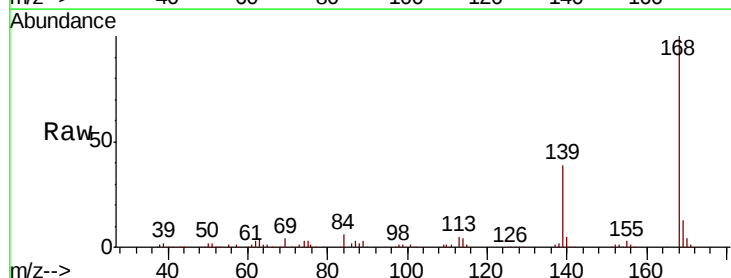
RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

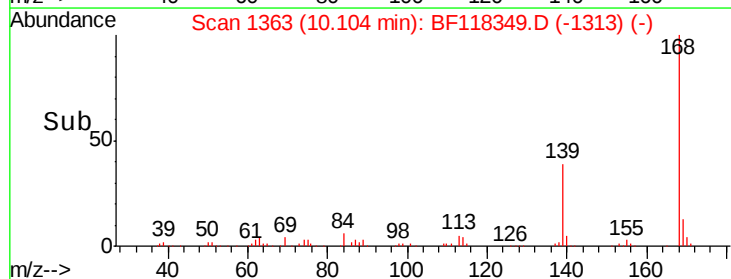
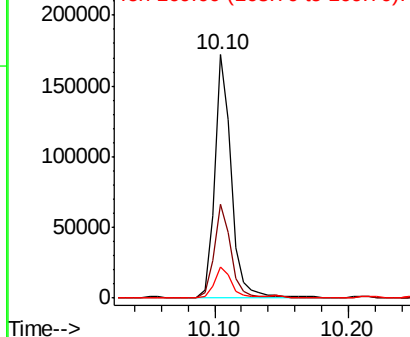
Lab File: BF118349.D

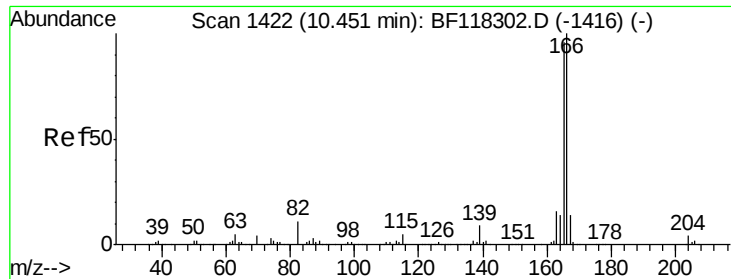
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.5	47.3
169	12.9	10.4	15.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





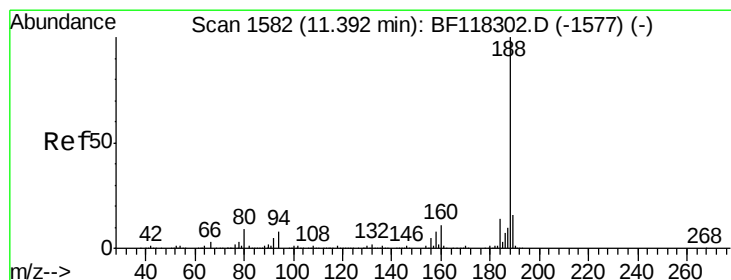
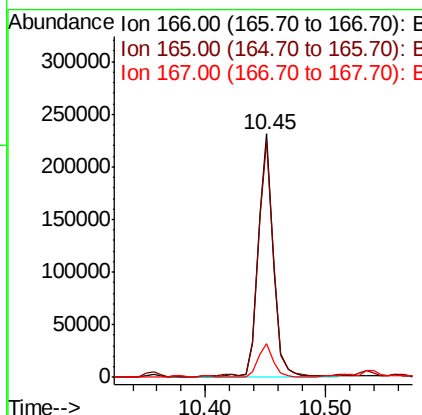
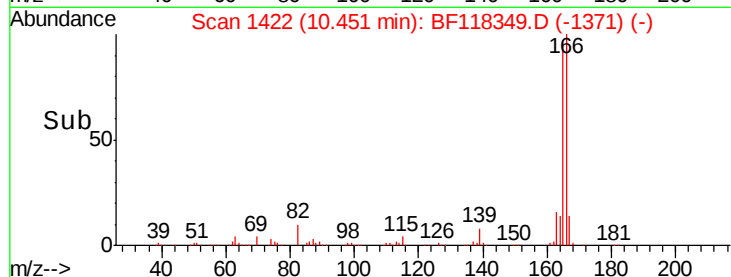
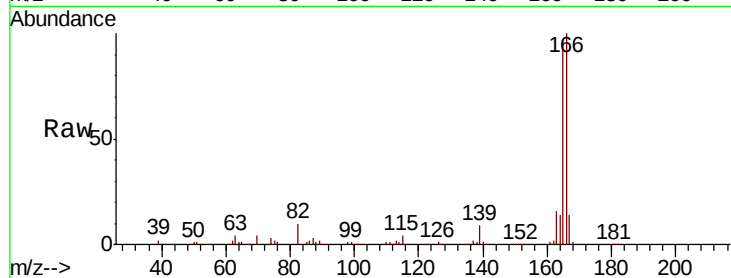
#58
 Fluorene
 Concen: 11.214 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. 0.00 min
 Lab File: BF118349.D
 Acq: 27 Dec 2019 20:33

Instrument :
 BNA_F
 ClientSampleId :
 GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.8	77.0	115.4
167	13.7	10.9	16.3

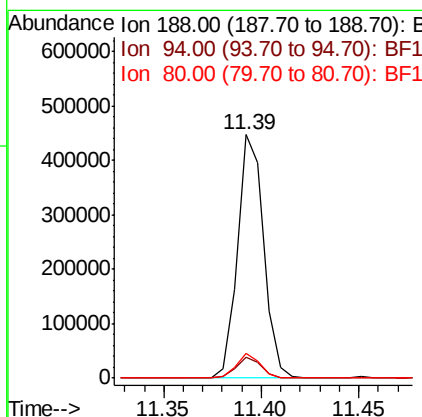
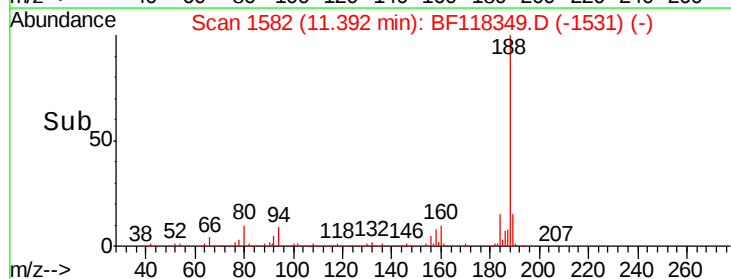
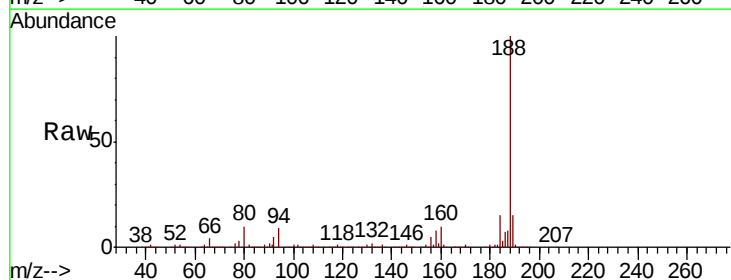
Manual Integrations
 APPROVED

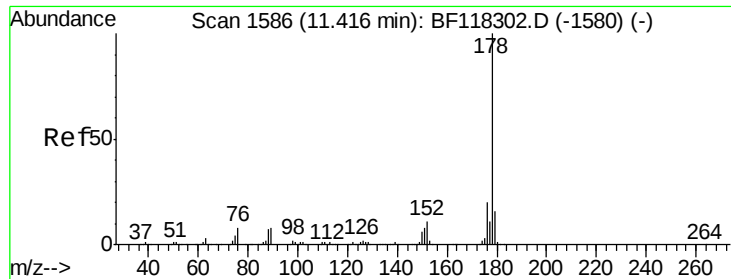
mohammad
 12/29/2019 5:27:57 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: BF118349.D
 Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.7	10.1
80	10.1	7.2	10.8





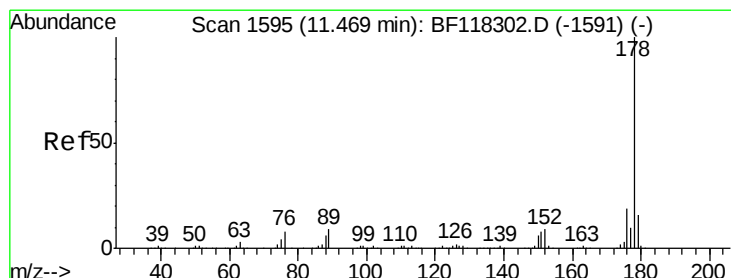
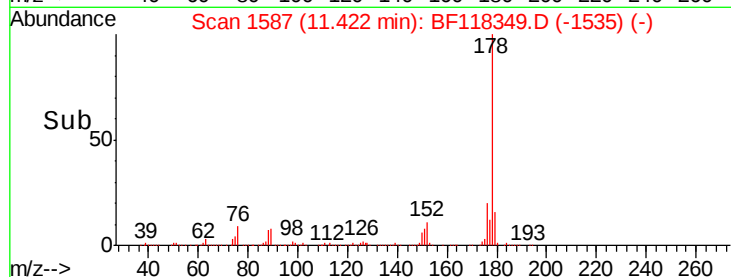
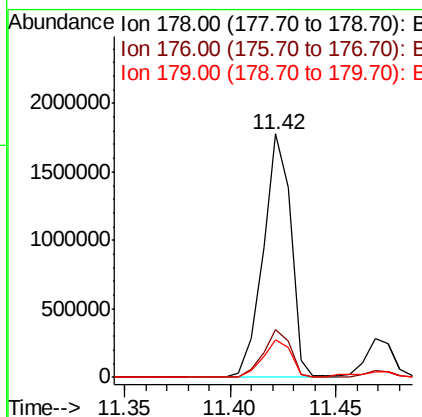
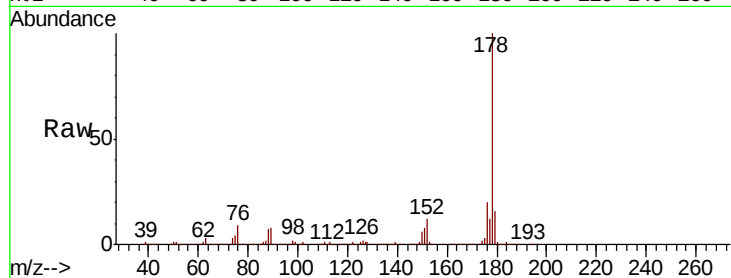
#71
Phenanthrene
Concen: 71.462 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.6	12.6	19.0

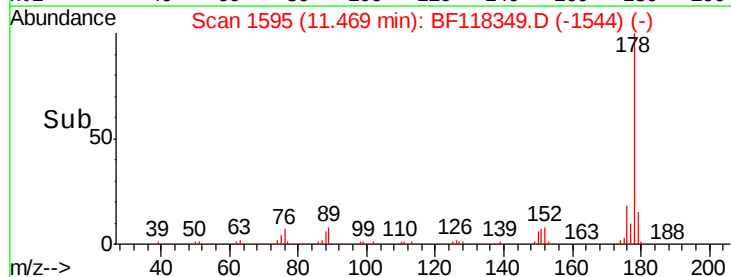
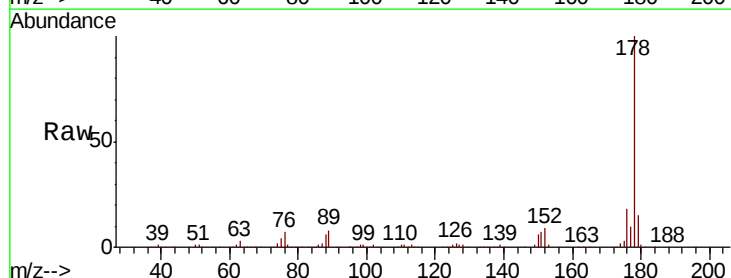
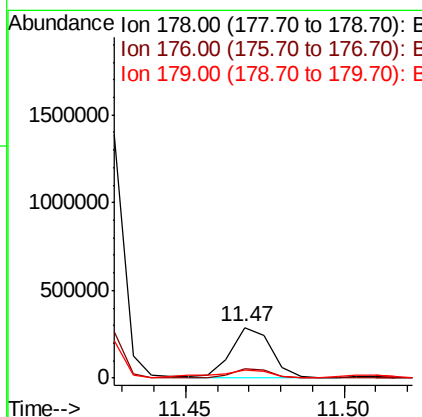
Manual Integrations
APPROVED

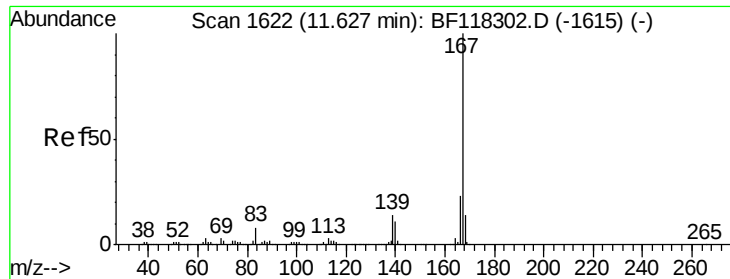
mohammad
12/29/2019 5:27:57 PM



#72
Anthracene
Concen: 10.942 ng
RT: 11.47 min Scan# 1595
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.2	22.8
179	15.1	12.9	19.3





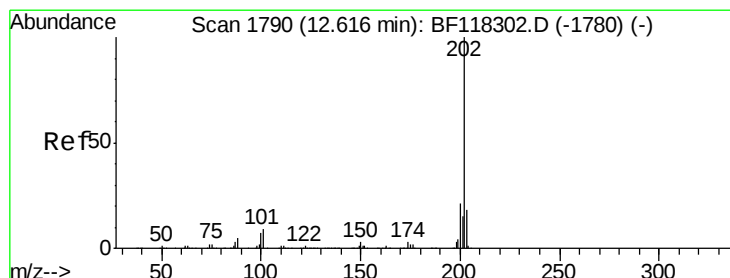
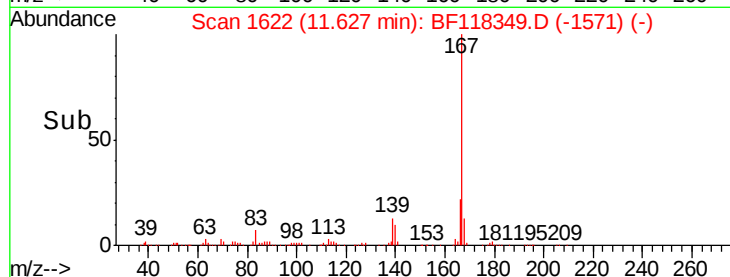
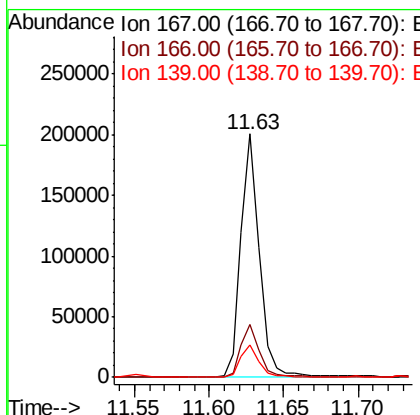
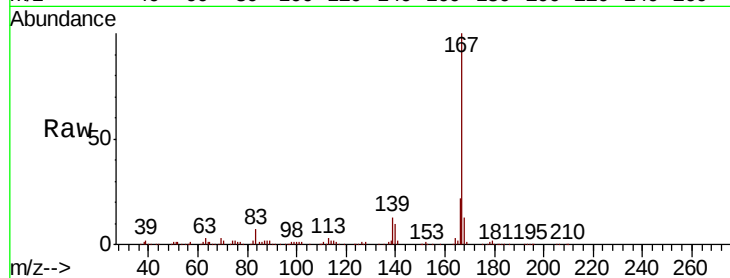
#73
 Carbazole
 Concen: 8.679 ng
 RT: 11.63 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: BF118349.D
 Acq: 27 Dec 2019 20:33

Instrument :
 BNA_F
 ClientSampleID :
 GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.1	27.1
139	13.5	11.5	17.3

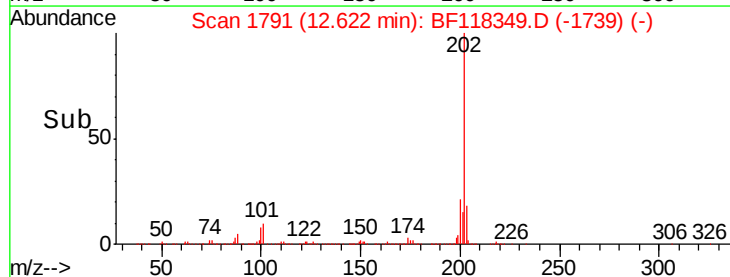
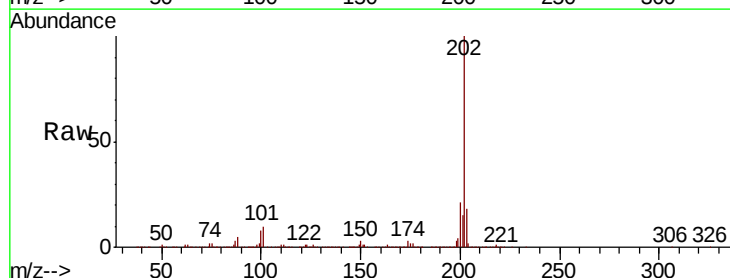
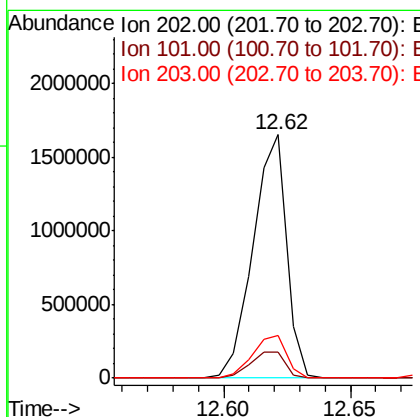
Manual Integrations
 APPROVED

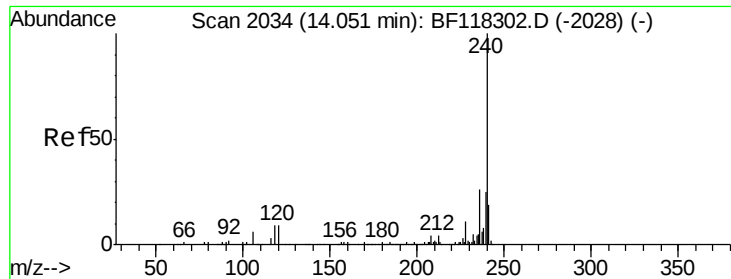
mohammad
 12/29/2019 5:27:57 PM



#75
 Fluoranthene
 Concen: 66.892 ng
 RT: 12.62 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: BF118349.D
 Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	29.5
203	17.5	0.0	37.6





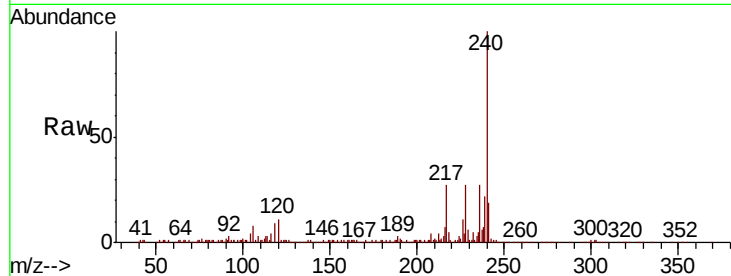
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.1	10.7#
236	26.6	21.0	31.6

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM

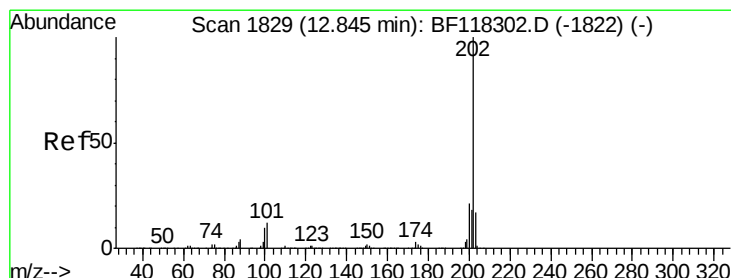
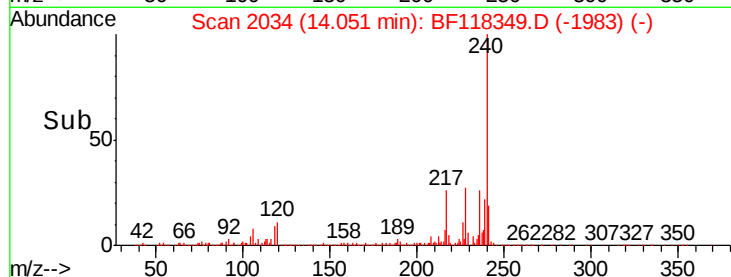
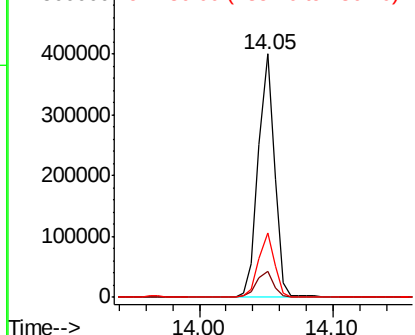


Abundance

Ion 240.00 (239.70 to 240.70): E

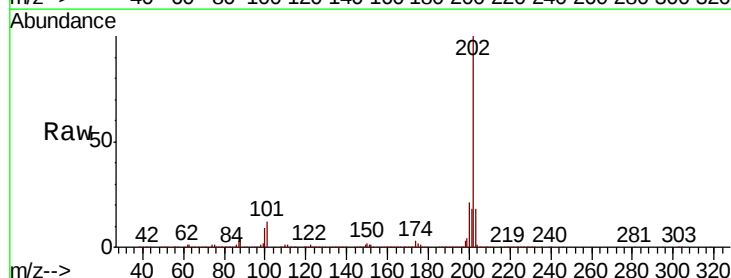
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 43.037 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	17.8	13.9	20.9

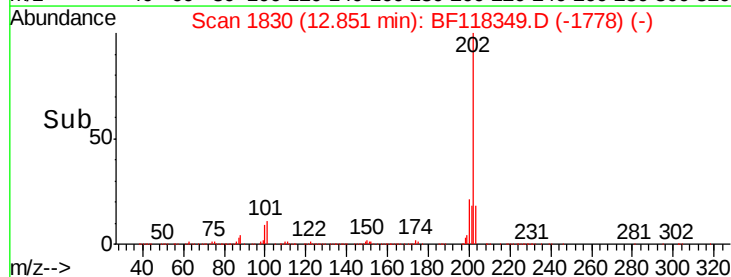
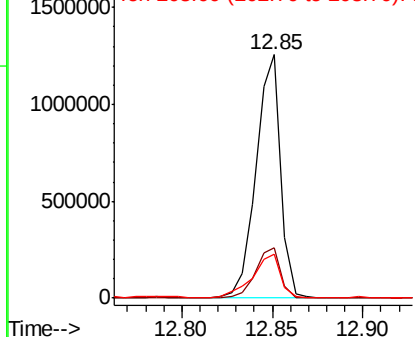


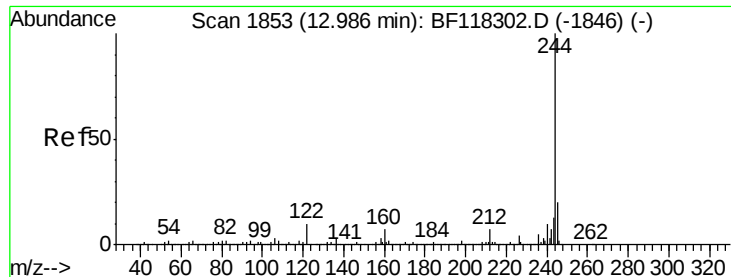
Abundance

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





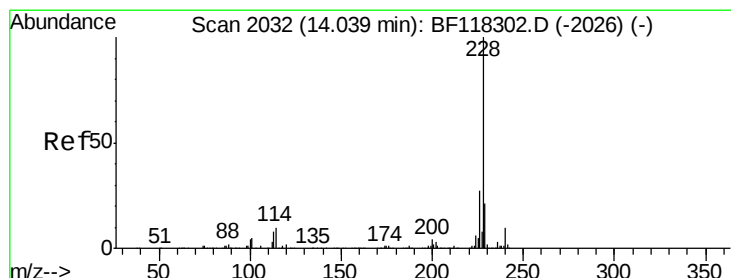
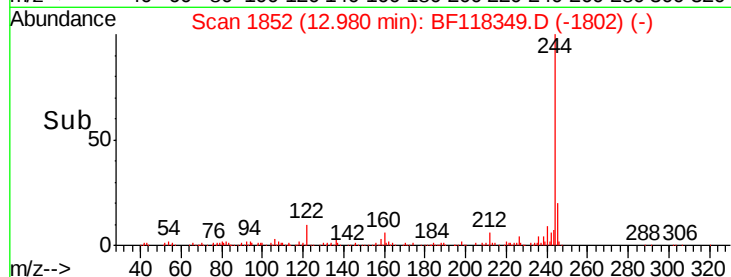
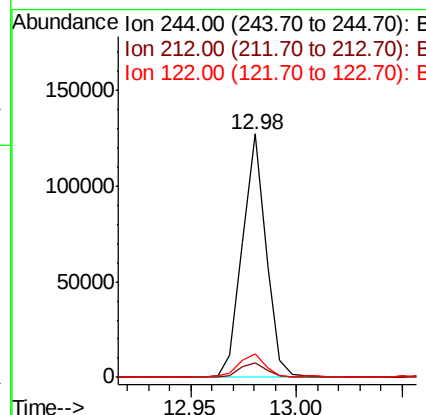
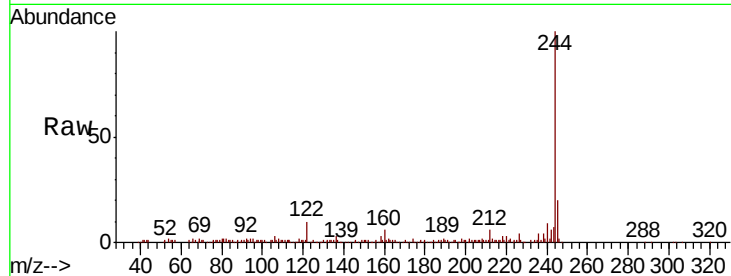
#79
 Terphenyl-d14
 Concen: 4.913 ng
 RT: 12.98 min Scan# 1852
 Delta R.T. -0.01 min
 Lab File: BF118349.D
 Acq: 27 Dec 2019 20:33

Instrument :
 BNA_F
 ClientSampleId :
 GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.4	8.2
122	9.7	7.8	11.8

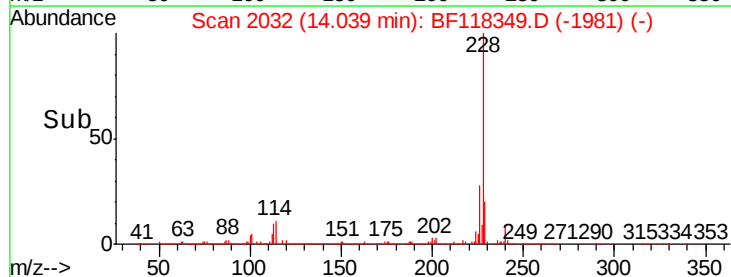
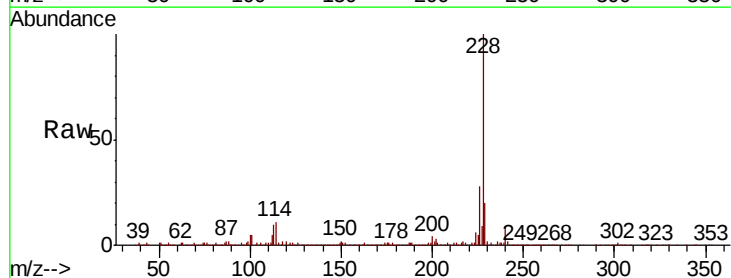
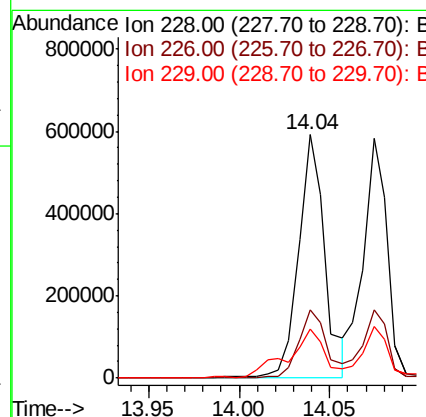
Manual Integrations
 APPROVED

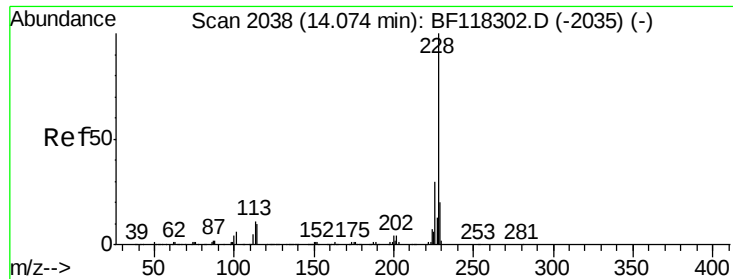
mohammad
 12/29/2019 5:27:57 PM



#81
 Benzo(a)anthracene
 Concen: 25.791 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. 0.00 min
 Lab File: BF118349.D
 Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.0	33.0
229	20.1	16.6	24.8





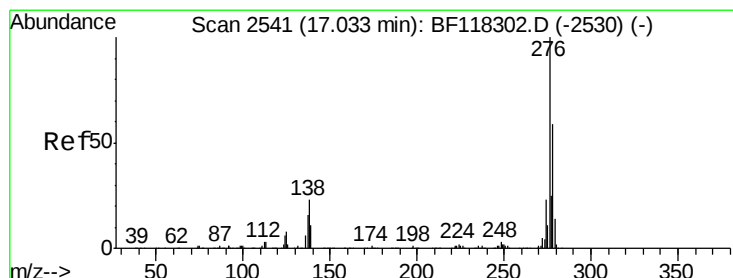
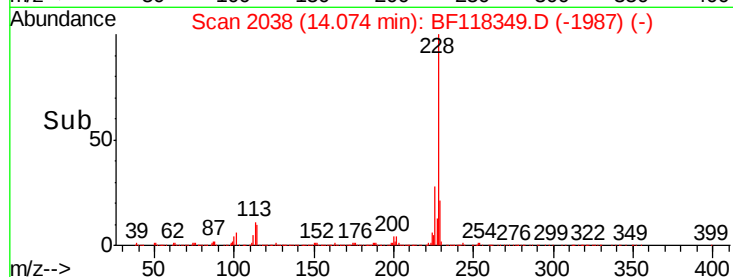
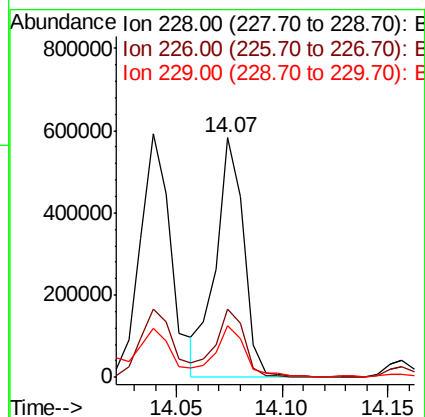
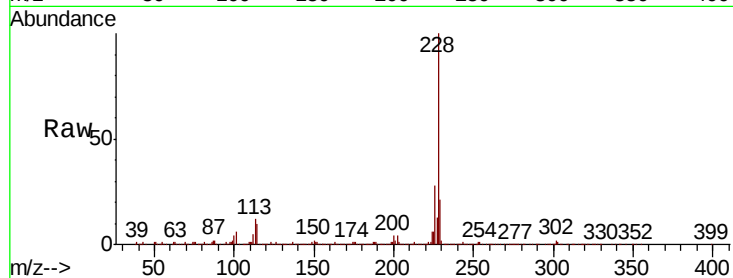
#83
Chrysene
Concen: 23.799 ng
RT: 14.07 min Scan# 2038
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion:	228	Resp:	532917
Ion Ratio	Lower	Upper	
228	100		
226	28.4	23.9	35.9
229	21.5	16.1	24.1

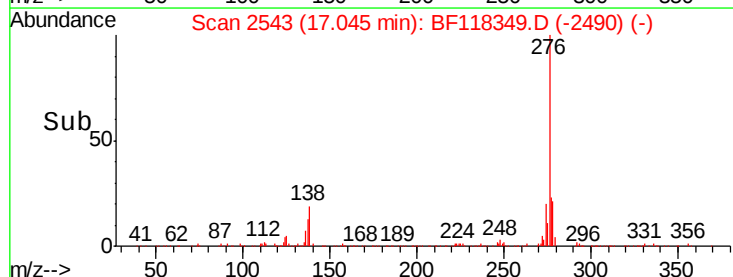
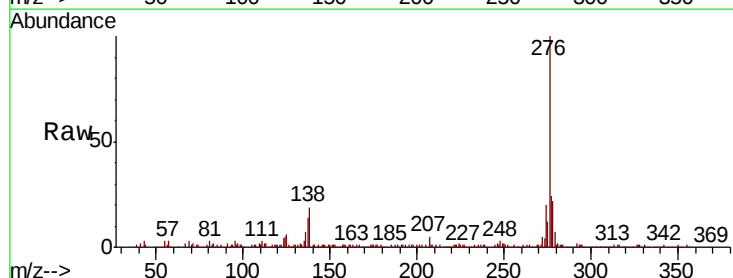
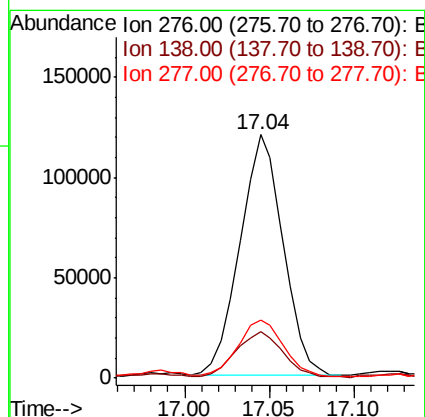
Manual Integrations
APPROVED

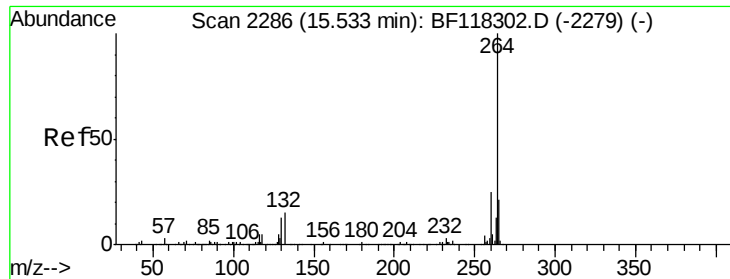
mohammad
12/29/2019 5:27:57 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 11.190 ng
RT: 17.04 min Scan# 2543
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion:	276	Resp:	213495
Ion Ratio	Lower	Upper	
276	100		
138	20.2	19.5	29.3
277	24.0	20.6	30.8





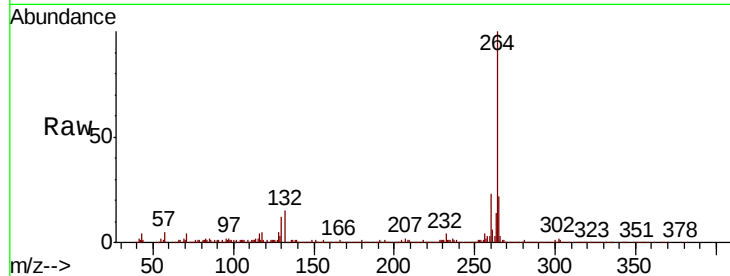
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2288
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.8	29.6
265	21.9	17.0	25.4

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM

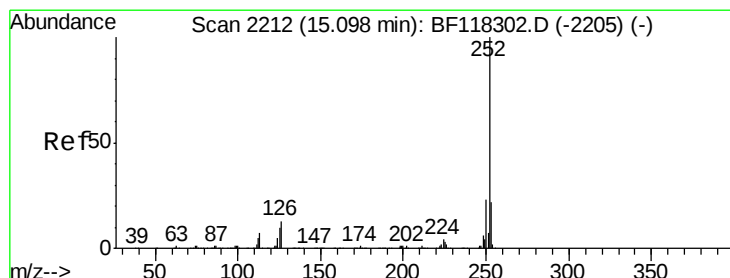
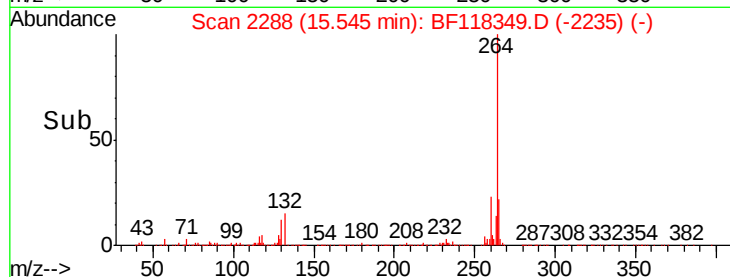
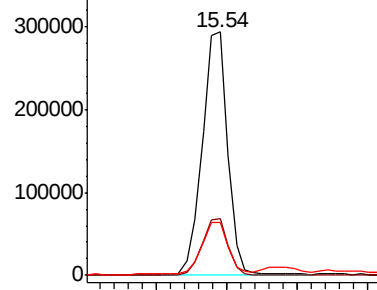


Abundance

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: 27.916 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

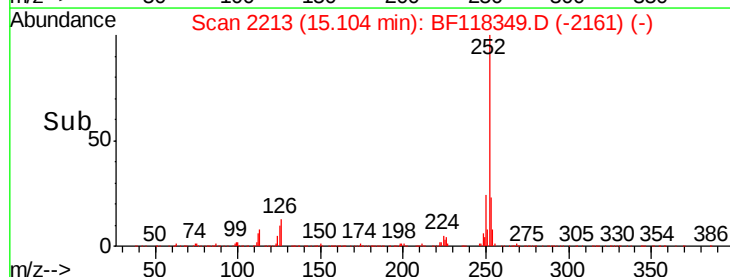
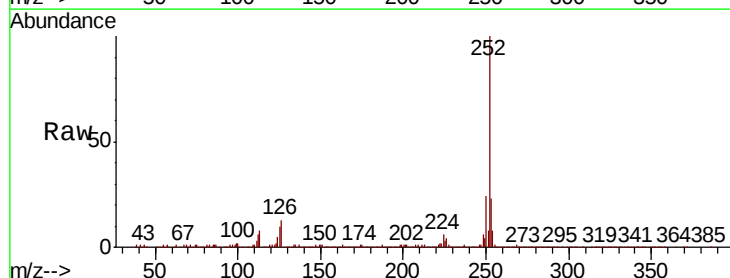
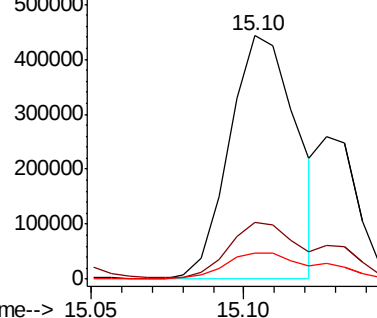
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	10.5	7.7	11.5

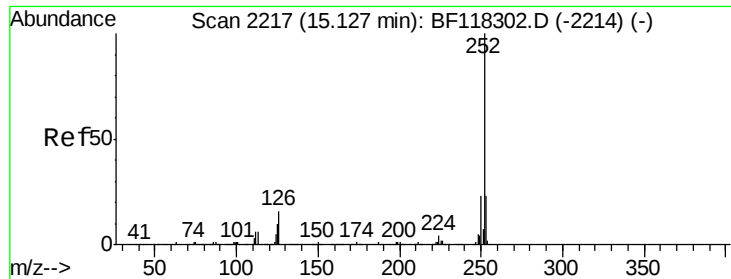
Abundance

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





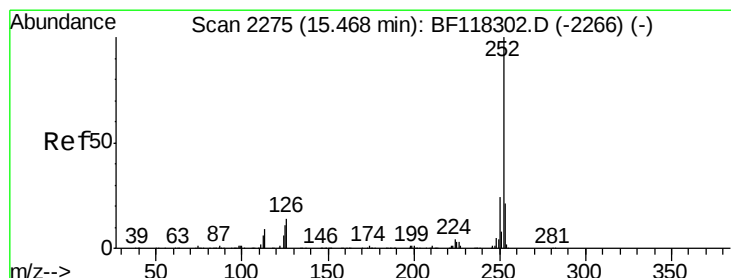
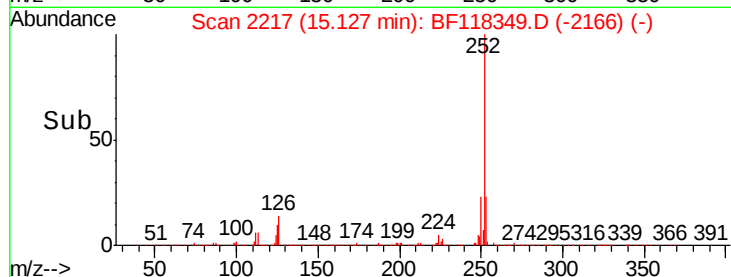
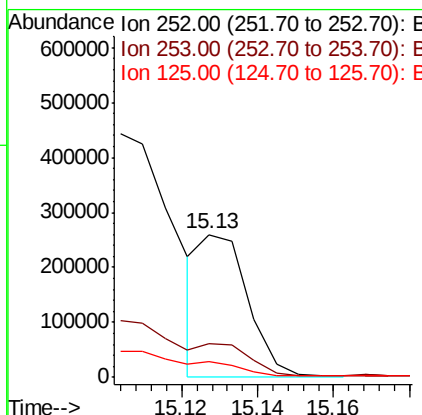
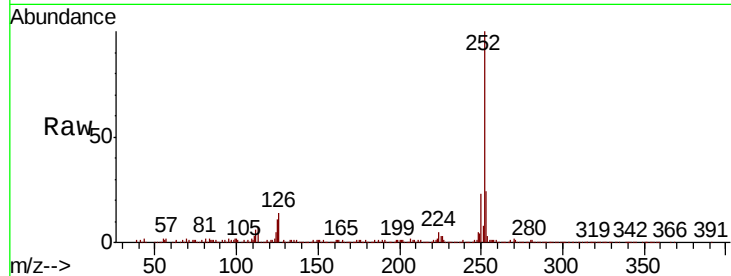
#89
Benzo(k)fluoranthene
Concen: 9.784 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.00 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.0	27.0
125	10.7	8.0	12.0

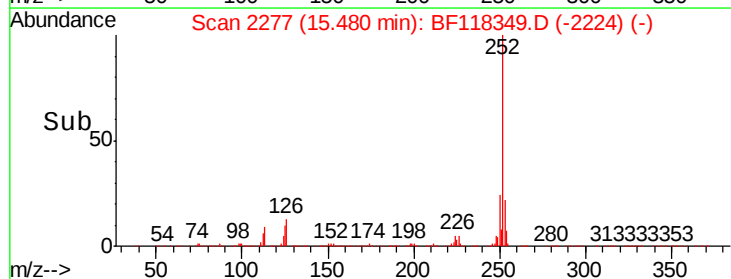
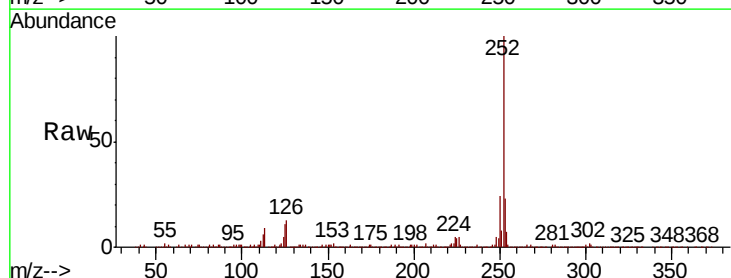
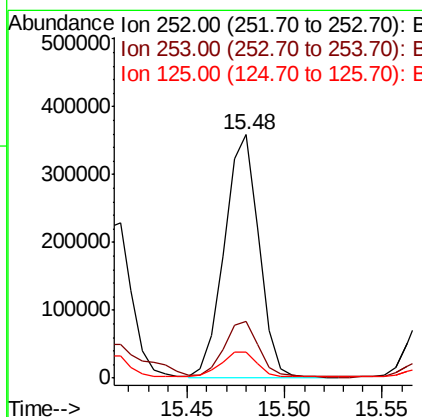
Manual Integrations
APPROVED

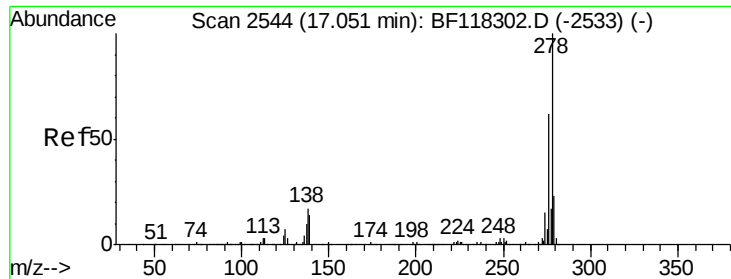
mohammad
12/29/2019 5:27:57 PM



#90
Benzo(a)pyrene
Concen: 20.403 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	10.6	9.0	13.4





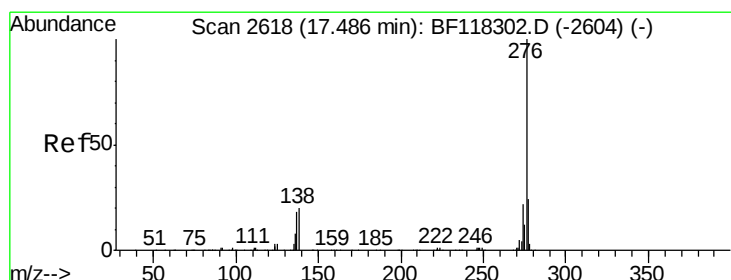
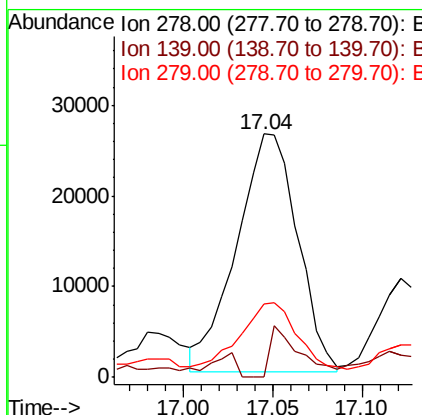
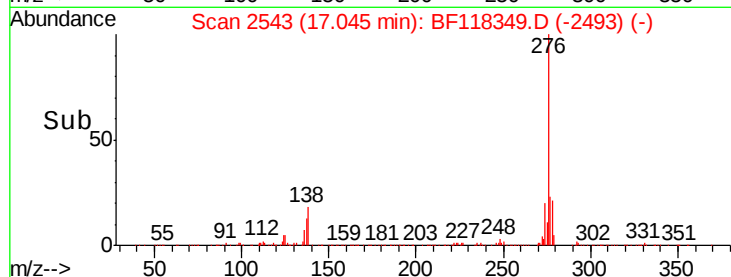
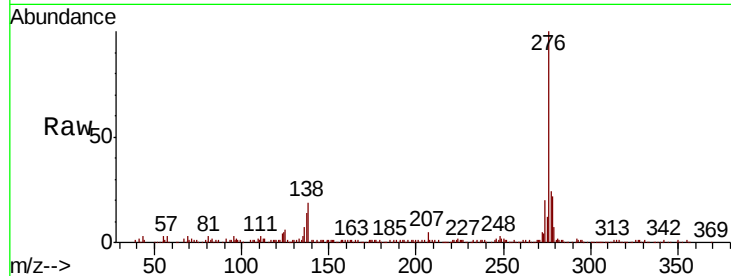
#91
Dibenzo(a,h)anthracene
Concen: 3.350 ng m
RT: 17.04 min Scan# 2543
Delta R.T. -0.01 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Instrument :
BNA_F
ClientSampleId :
GP-2-(3-5)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.5	17.3#
279	30.1	18.3	27.5#

Manual Integrations
APPROVED

mohammad
12/29/2019 5:27:57 PM



#92
Benzo(g,h,i)perylene
Concen: 9.447 ng
RT: 17.50 min Scan# 2621
Delta R.T. 0.02 min
Lab File: BF118349.D
Acq: 27 Dec 2019 20:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.1	28.7
138	21.1	16.1	24.1

