

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020520\
 Data File : BF118827.D
 Acq On : 5 Feb 2020 14:06
 Operator : CG/JU
 Sample : L1351-02
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TAL-2

Manual Integrations
 APPROVED

mohammad
 2/6/2020 2:18:59 PM

Quant Time: Feb 06 00:40:13 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	244893	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	924520	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	507600	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	970444	20.00	ng	0.00
76) Chrysene-d12	13.98	240	676097	20.00	ng	0.00
87) Perylene-d12	15.43	264	704894	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1297201	100.27	ng	0.00
7) Phenol-d6	6.45	99	1603892	99.87	ng	0.00
23) Nitrobenzene-d5	7.37	82	1030381	66.43	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	614009	101.10	ng	-0.01
45) 2-Fluorobiphenyl	9.17	172	1826302	64.32	ng	-0.01
79) Terphenyl-d14	12.92	244	2138151	64.96	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.56	163	96210	2.784	ng	96
52) Acenaphthene	9.88	154	80353	2.893	ng	97
58) Fluorene	10.39	166	81403	2.696	ng	97
71) Phenanthrene	11.36	178	1167135	24.444	ng	98
72) Anthracene	11.40	178	331187	6.972	ng	97
73) Carbazole	11.56	167	174514	4.186	ng	99
74) Di-n-butylphthalate	11.90	149	691456	13.021	ng	98
75) Fluoranthene	12.54	202	1800224	34.532	ng	98
78) Pyrene	12.77	202	1592843	34.342	ng	99
80) Butylbenzylphthalate	13.43	149	7736827	365.460	ng	# 95
81) Benzo(a)anthracene	13.97	228	818467	20.344	ng	100
83) Chrysene	14.00	228	786102m	19.468	ng	
84) Bis(2-ethylhexyl)phthalate	13.96	149	68338	2.544	ng	# 96
86) Indeno(1,2,3-cd)pyrene	16.86	276	434004	10.698	ng	94
88) Benzo(b)fluoranthene	15.00	252	929106m	21.242	ng	
89) Benzo(k)fluoranthene	15.03	252	326371m	8.569	ng	
90) Benzo(a)pyrene	15.36	252	614907	16.427	ng	# 96
91) Dibenzo(a,h)anthracene	16.86	278	115668	3.481	ng	# 88
92) Benzo(a,h,i)perylene	17.29	276	414076	12.957	ng	98

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

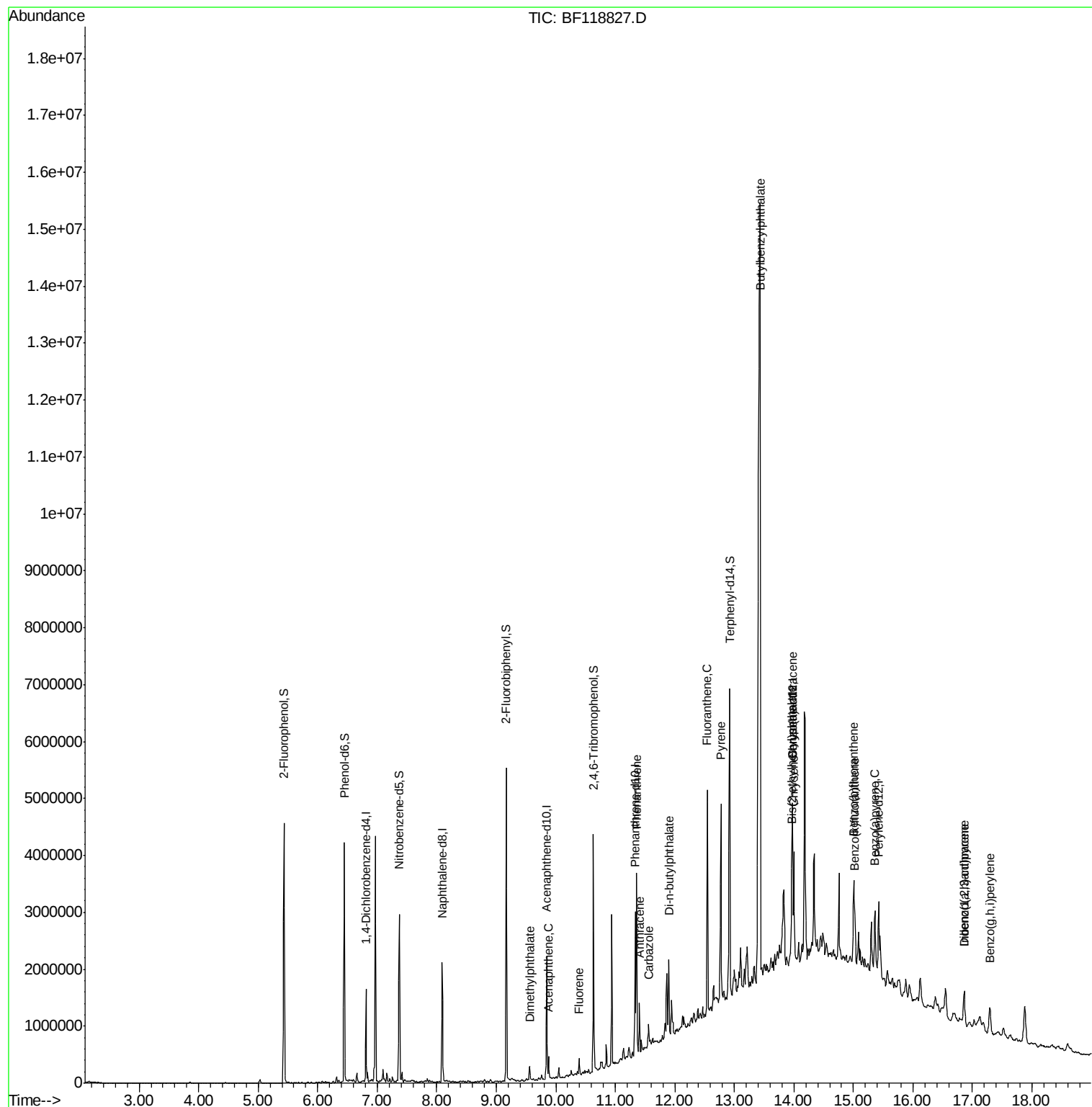
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020520\
Data File : BF118827.D
Acq On : 5 Feb 2020 14:06
Operator : CG/JU
Sample : L1351-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

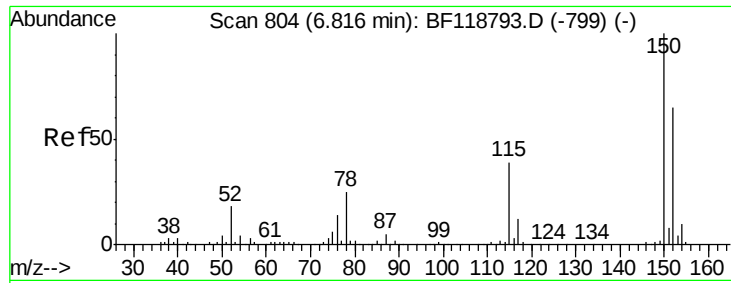
Instrument :
BNA_F
ClientSampleId :
TAL-2

Manual Integrations
APPROVED

mohammad
2/6/2020 2:18:59 PM

Quant Time: Feb 06 00:40:13 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 03 16:26:03 2020
Response via : Initial Calibration





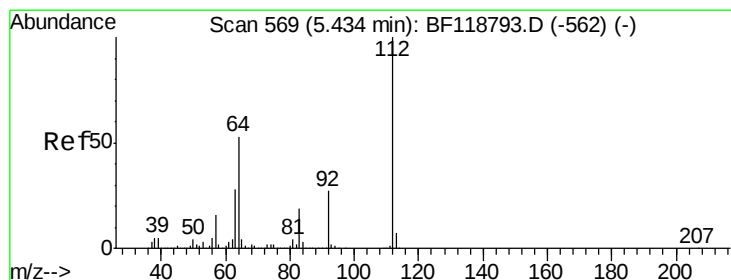
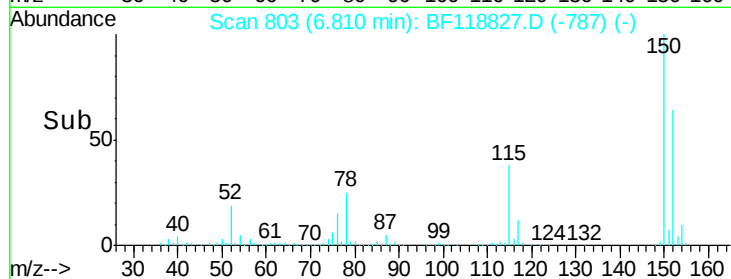
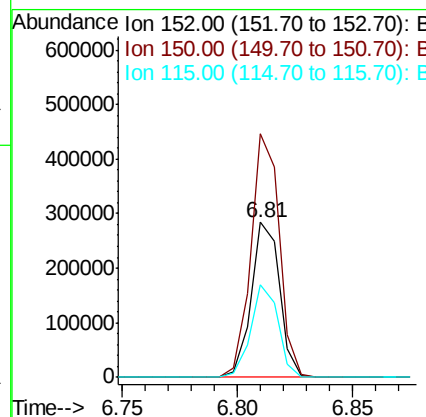
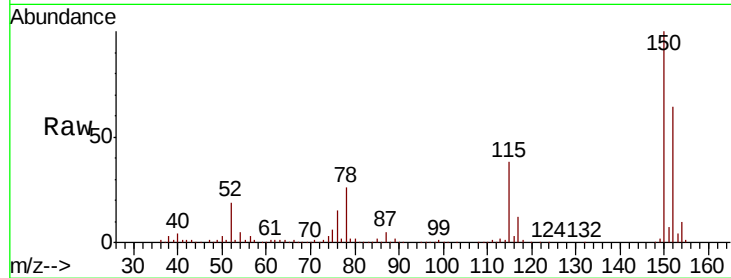
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Instrument :
 BNA_F
 ClientSampled :
 TAL-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	123.6	185.4
115	59.6	48.2	72.2

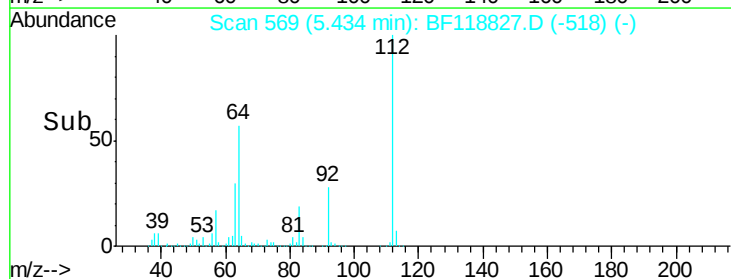
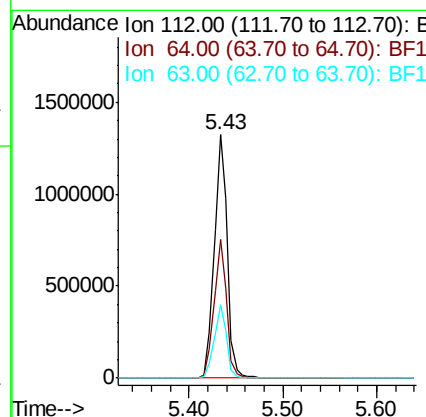
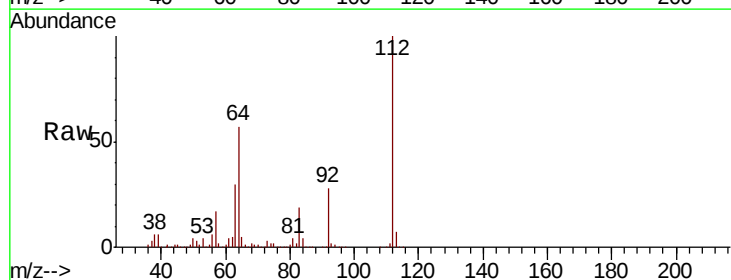
Manual Integrations
 APPROVED

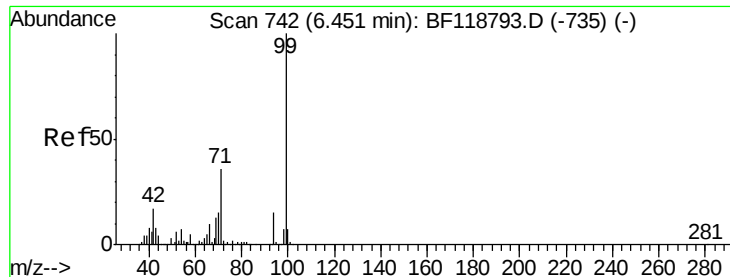
mohammad
 2/6/2020 2:18:59 PM



#5
 2-Fluorophenol
 Concen: 100.269 ng
 RT: 5.43 min Scan# 569
 Delta R.T. -0.00 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	42.6	63.8
63	30.1	22.2	33.4





#7

Phenol-d6

Concen: 99.870 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118827.D

Acq: 5 Feb 2020 14:06

Instrument :

BNA_F

ClientSampleId :

TAL-2

Tot Ion: 99 Resp: 1603892

Ion Ratio Lower Upper

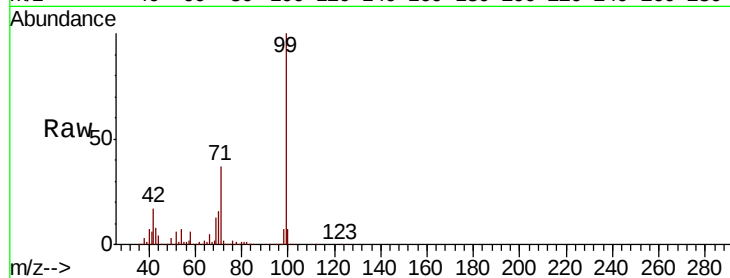
99 100

42 17.0 13.4 20.0

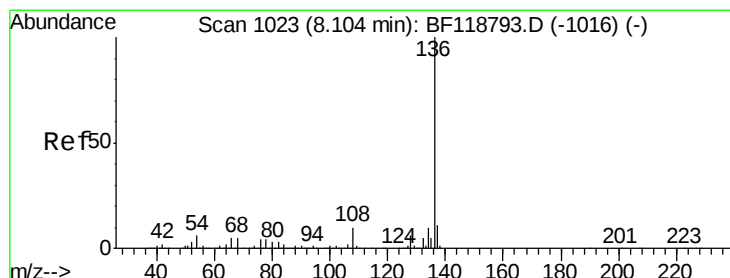
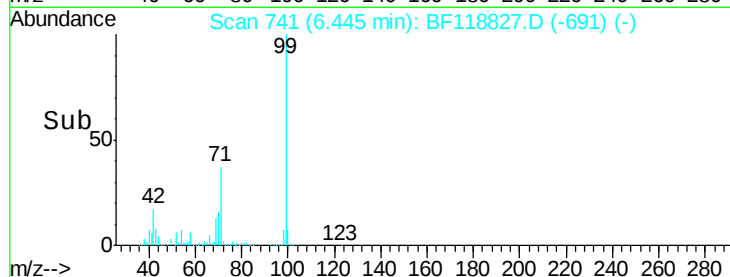
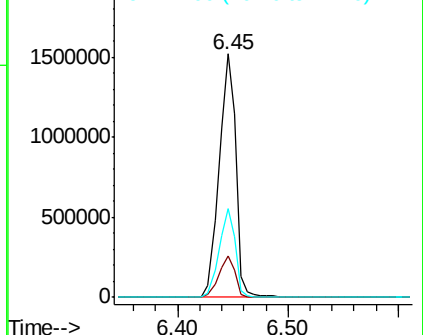
71 36.5 29.0 43.6

Manual Integrations
APPROVED

mohammad
2/6/2020 2:18:59 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: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF118827.D

Acq: 5 Feb 2020 14:06

Tgt Ion: 136 Resp: 924520

Ion Ratio Lower Upper

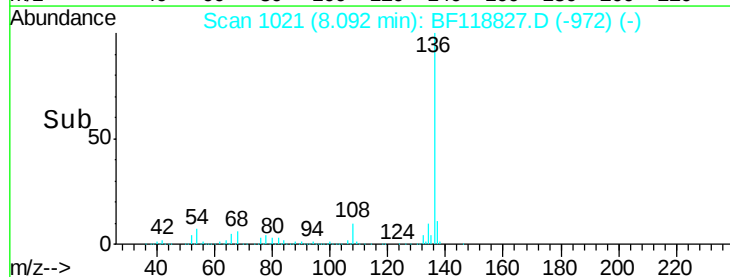
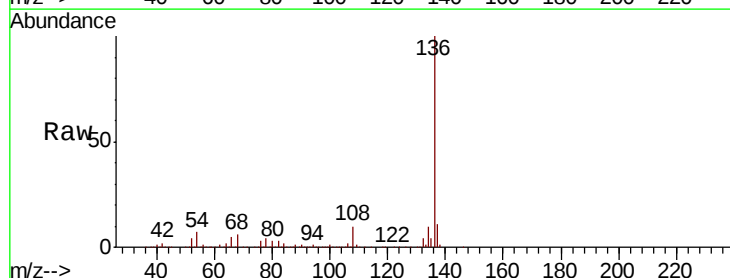
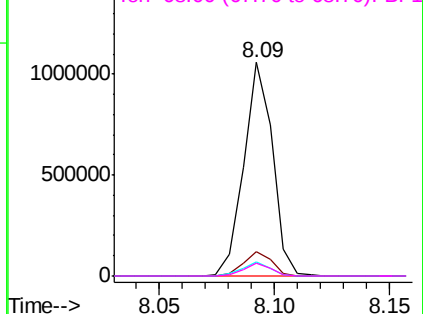
136 100

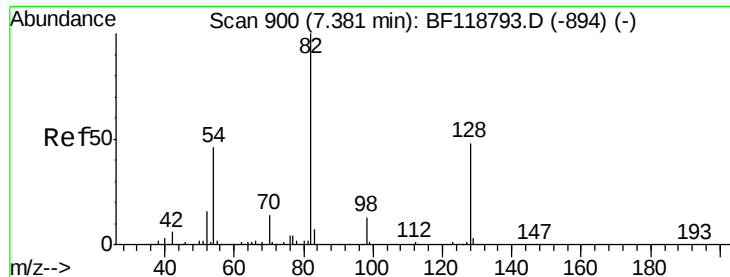
137 11.3 8.7 13.1

54 6.6 5.0 7.6

68 5.8 4.2 6.4

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





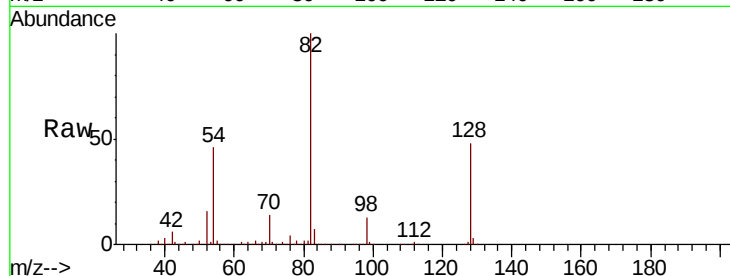
#23
Nitrobenzene-d5
Concen: 66.430 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampled :
TAL-2

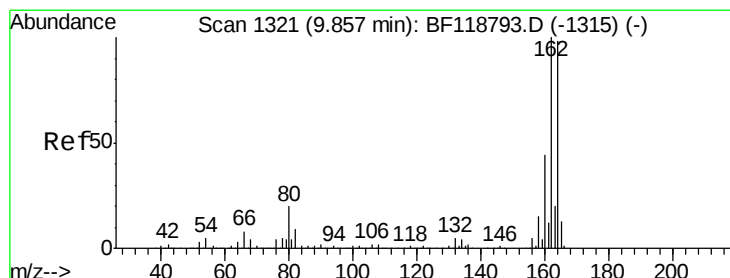
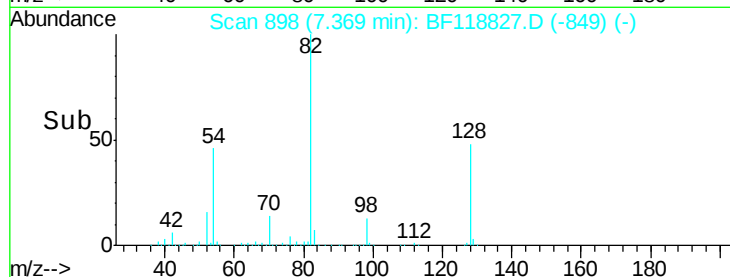
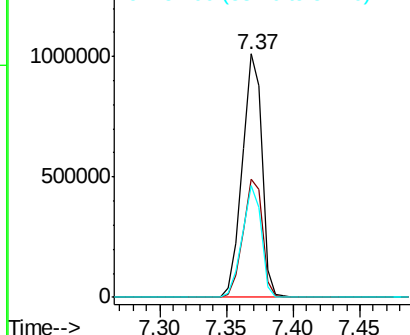
Tot Ion	Ratio	Lower	Upper
82	100		
128	48.3	38.5	57.7
54	46.1	36.7	55.1

Manual Integrations
APPROVED

mohammad
2/6/2020 2:18:59 PM



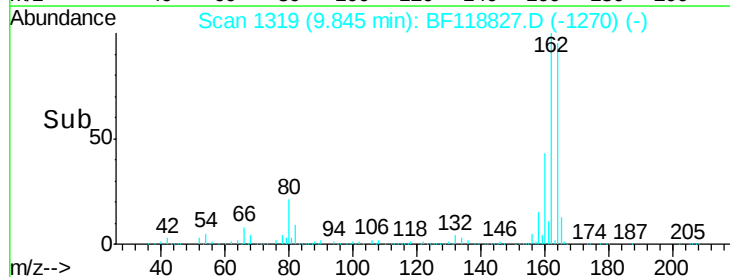
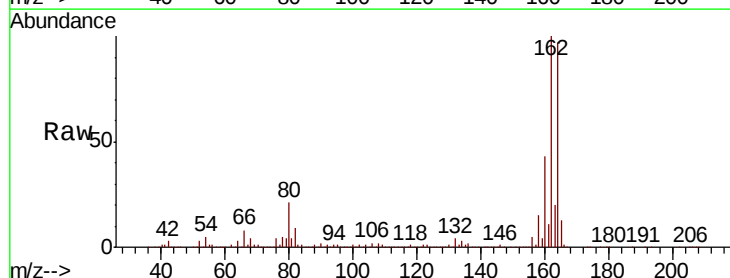
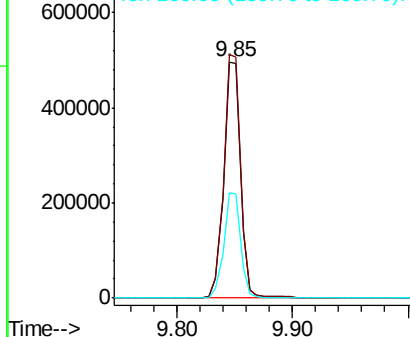
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

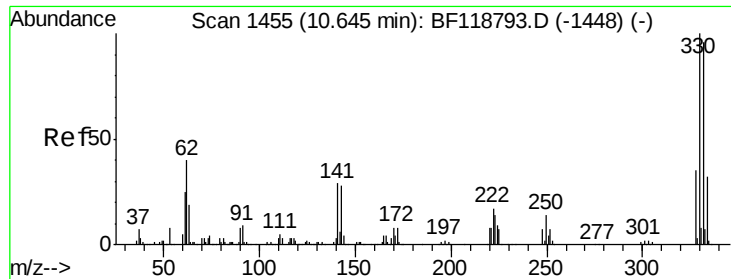


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.4	122.2
160	44.7	35.6	53.4

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





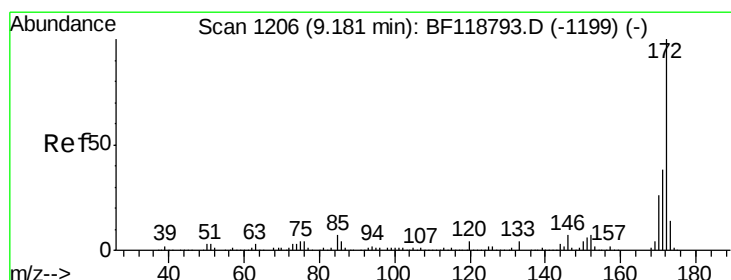
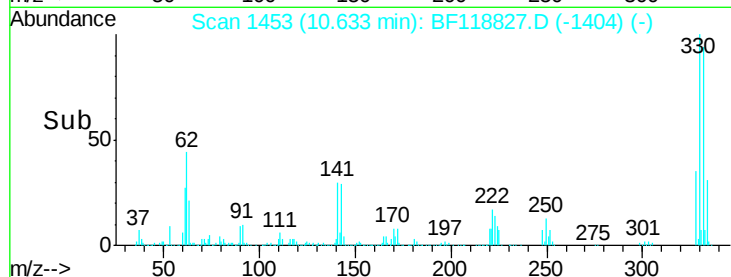
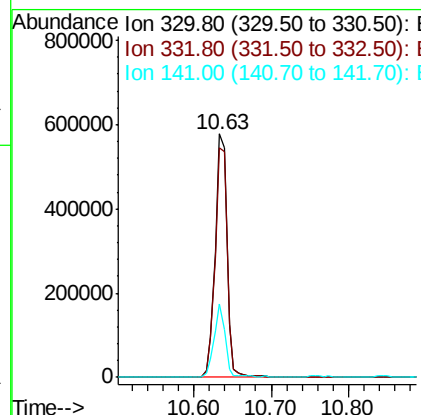
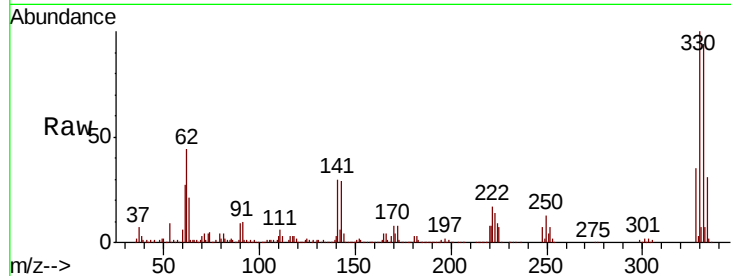
#42
 2,4,6-Tribromophenol
 Concen: 101.095 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Instrument :
 BNA_F
 ClientSampled :
 TAL-2

Tot Ion	Ratio	Resp	Lower	Upper
330	100	614009		
332	96.0		77.3	115.9
141	27.8		22.4	33.6

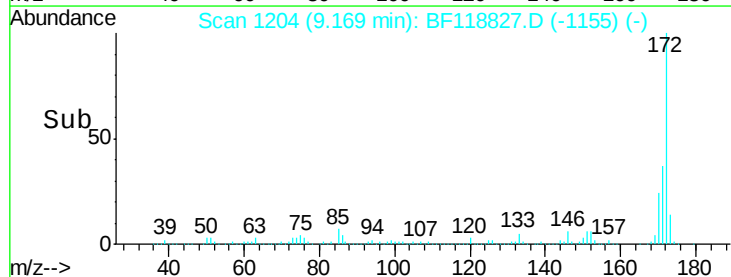
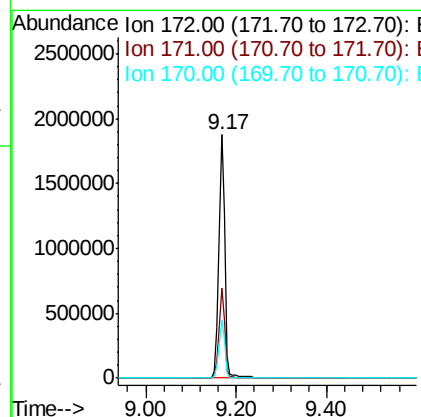
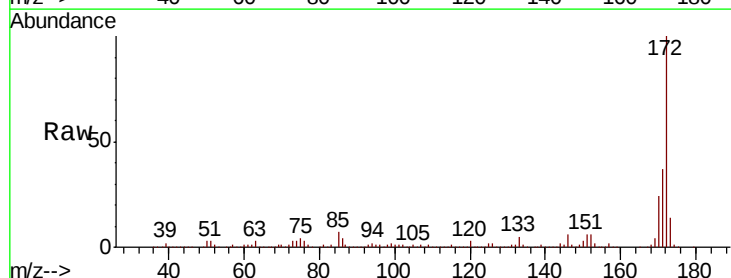
Manual Integrations
 APPROVED

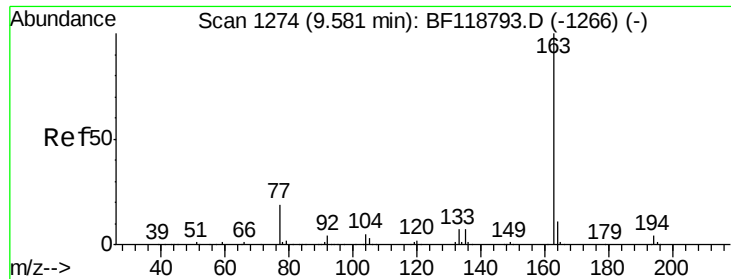
mohammad
 2/6/2020 2:18:59 PM



#45
 2-Fluorobiphenyl
 Concen: 64.320 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1826302		
171	36.9		30.8	46.2
170	24.0		20.5	30.7





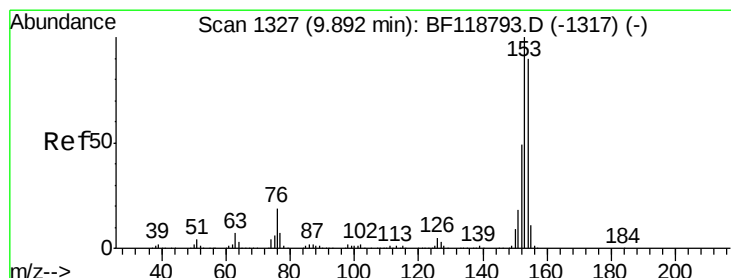
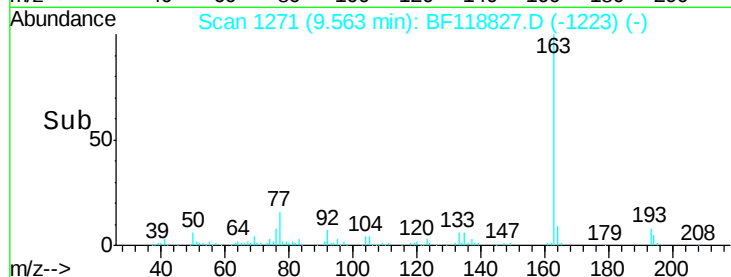
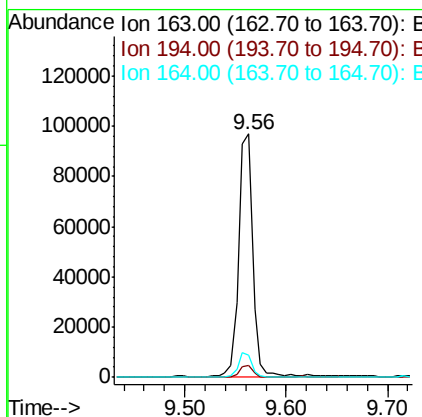
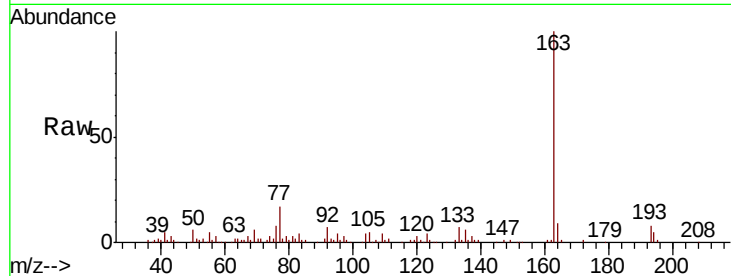
#50
Dimethylphthalate
Concen: 2.784 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampleId :
TAL-2

Tot Ion	Ratio	Resp	Lower	Upper
163	100	96210		
194	5.1		3.6	5.4
164	9.1		8.7	13.1

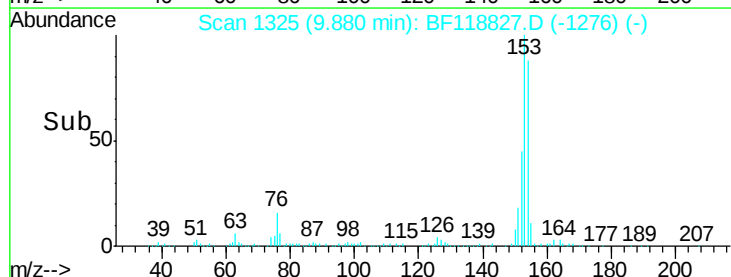
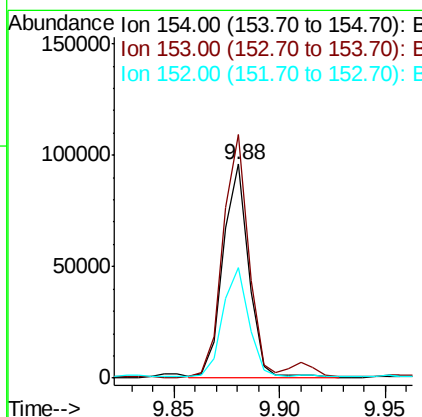
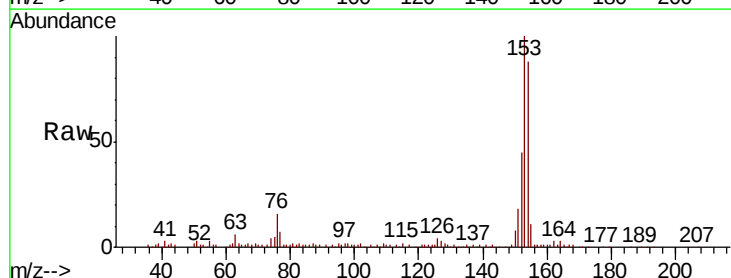
Manual Integrations
APPROVED

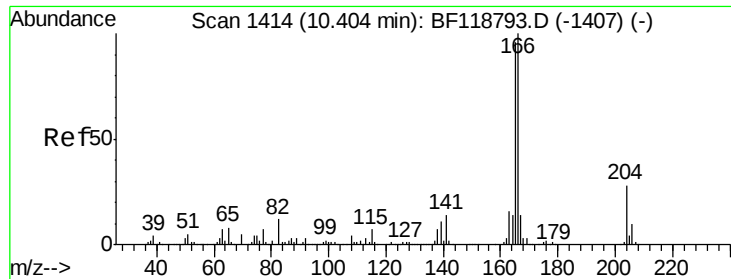
mohammad
2/6/2020 2:18:59 PM



#52
Acenaphthene
Concen: 2.893 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	80353		
153	113.8		89.4	134.0
152	51.5		43.6	65.4





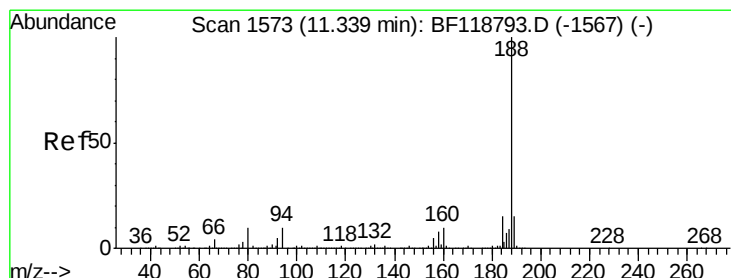
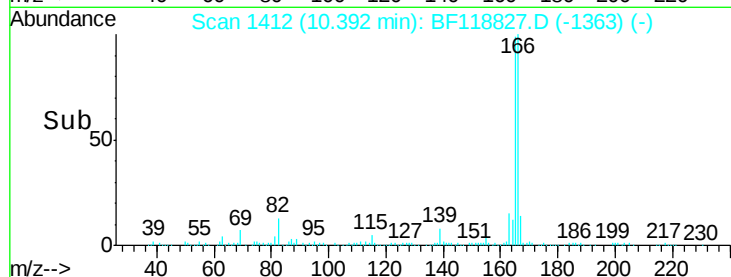
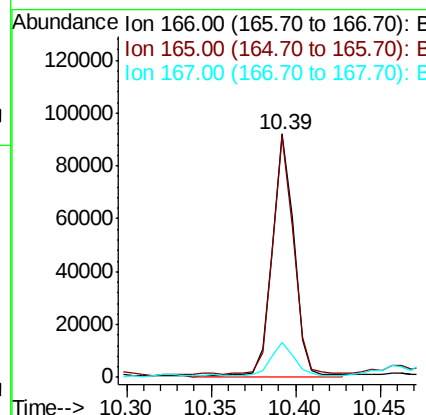
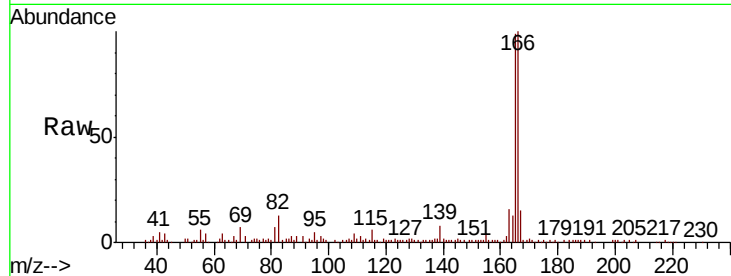
#58
 Fluorene
 Concen: 2.696 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Instrument :
 BNA_F
 ClientSampleId :
 TAL-2

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	77.0	115.6
167	14.6	11.1	16.7

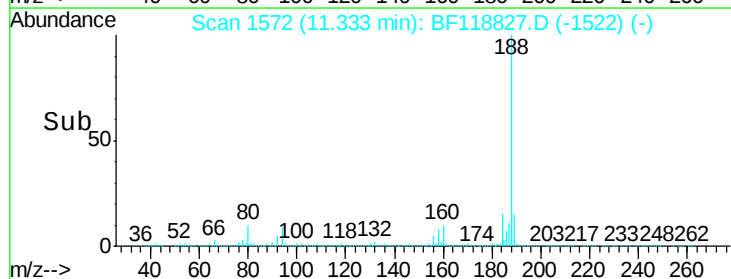
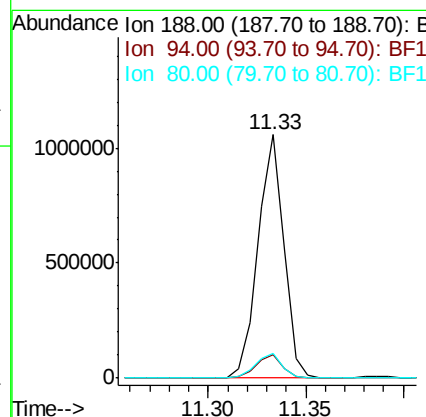
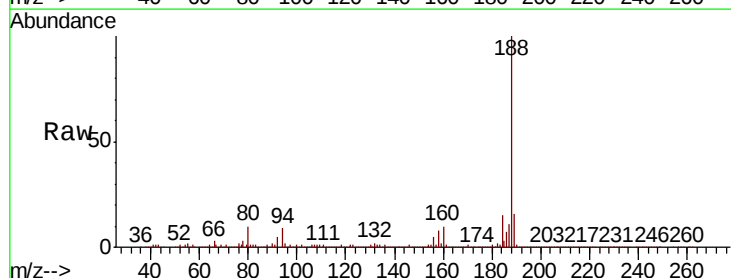
Manual Integrations
 APPROVED

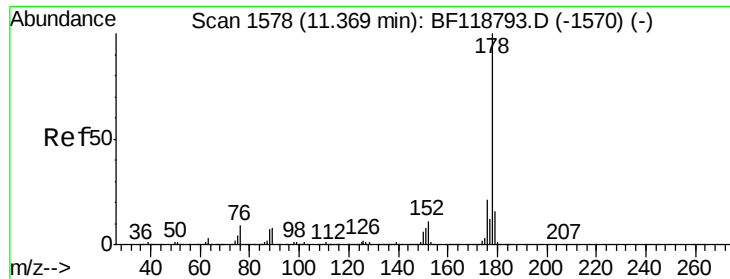
mohammad
 2/6/2020 2:18:59 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.9	11.9
80	9.9	8.4	12.6





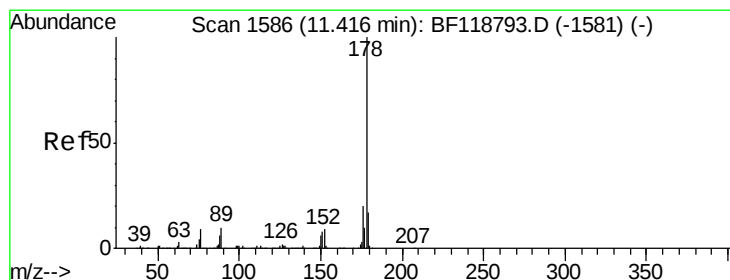
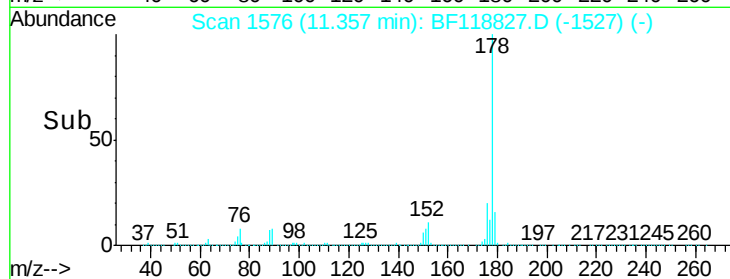
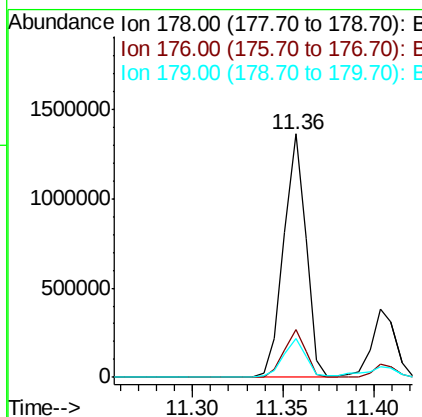
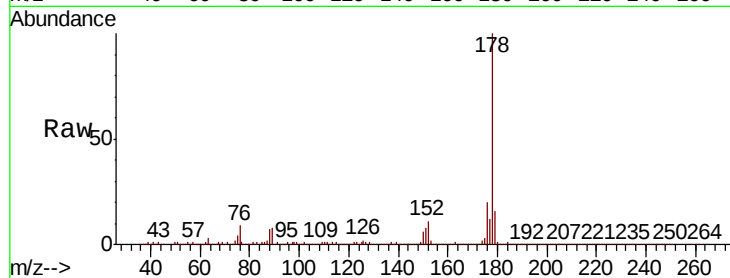
#71
Phenanthrene
Concen: 24.444 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampleId :
TAL-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.6	24.8
179	16.0	13.2	19.8

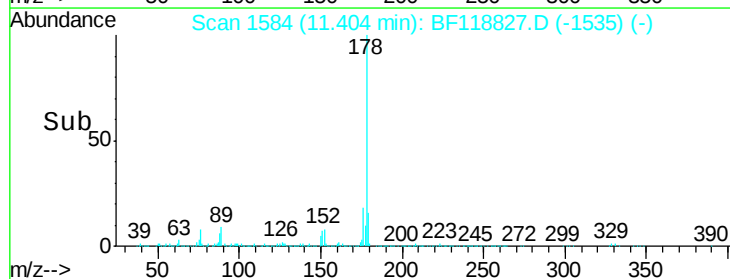
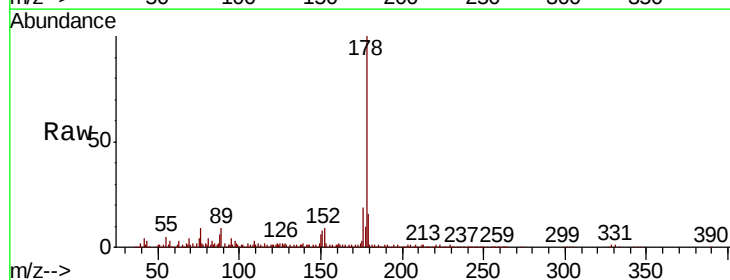
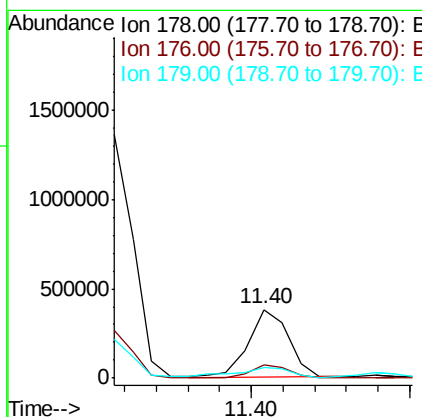
Manual Integrations
APPROVED

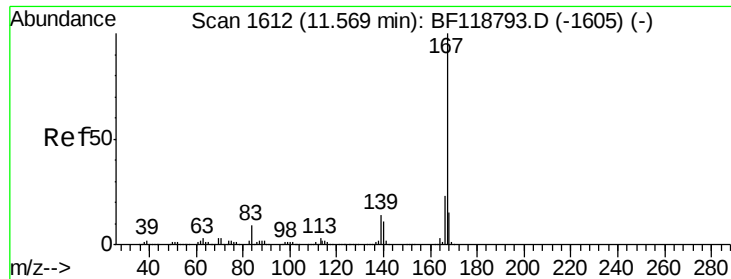
mohammad
2/6/2020 2:18:59 PM



#72
Anthracene
Concen: 6.972 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	16.2	24.2
179	15.9	13.4	20.2





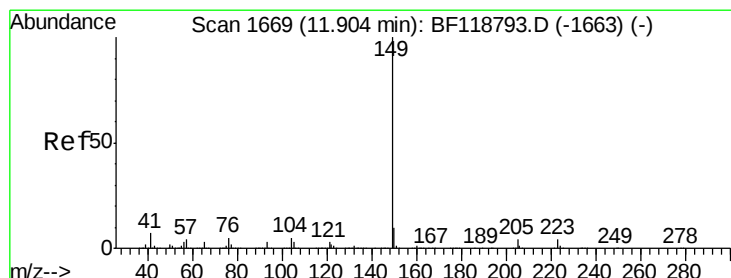
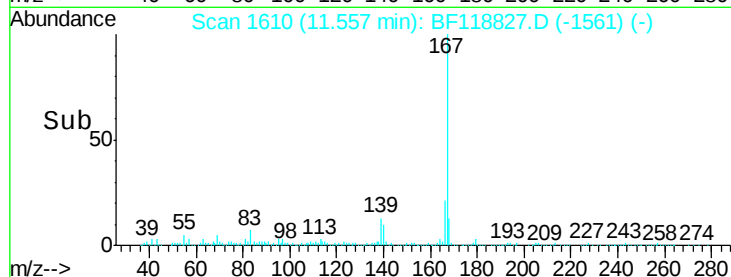
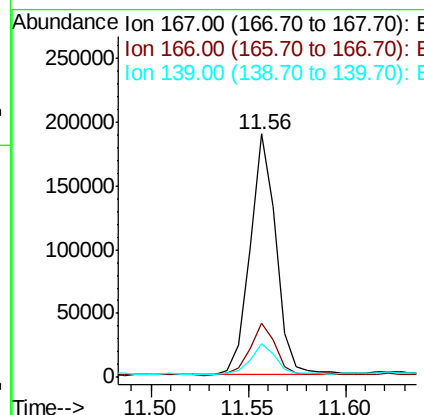
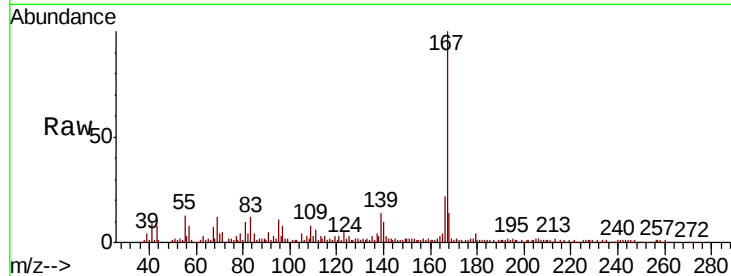
#73
 Carbazole
 Concen: 4.186 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Instrument :
 BNA_F
 ClientSampled :
 TAL-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100		174514		
166	22.1	18.4	27.6		
139	13.7	11.1	16.7		

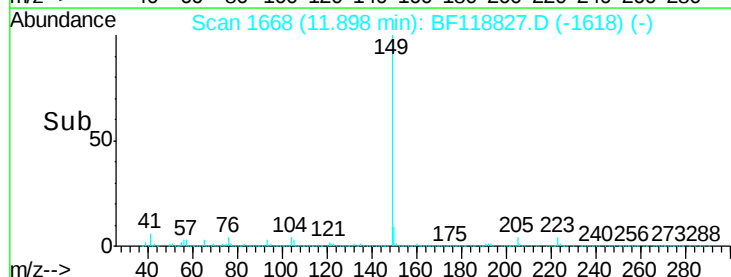
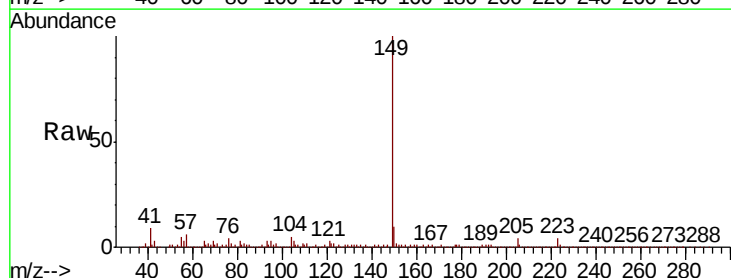
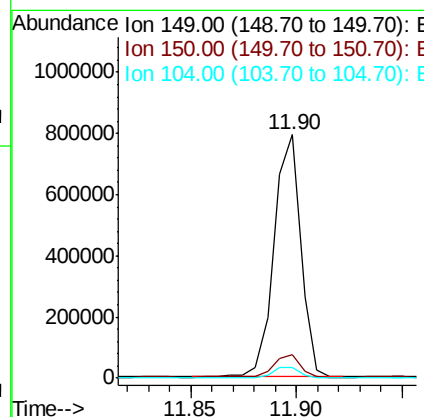
Manual Integrations
 APPROVED

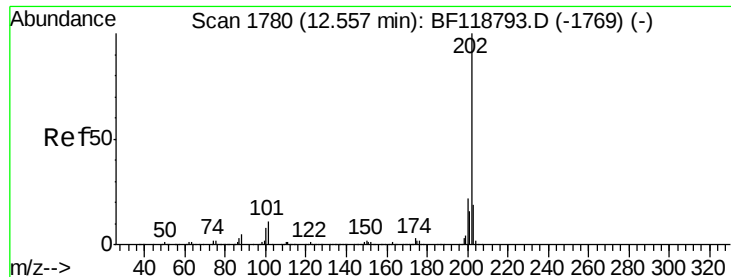
mohammad
 2/6/2020 2:18:59 PM



#74
 Di-n-butylphthalate
 Concen: 13.021 ng
 RT: 11.90 min Scan# 1668
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
149	100		691456		
150	9.6	8.1	12.1		
104	4.5	4.3	6.5		





#75

Fluoranthene

Concen: 34.532 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118827.D

Acq: 5 Feb 2020 14:06

Instrument :

BNA_F

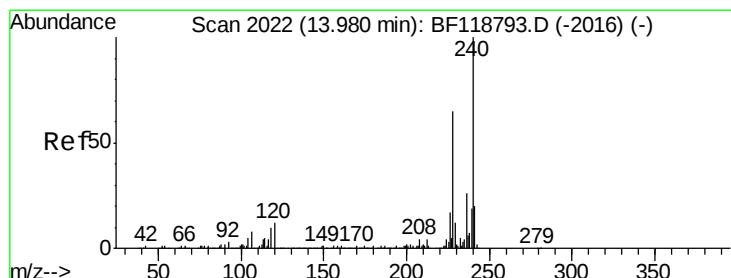
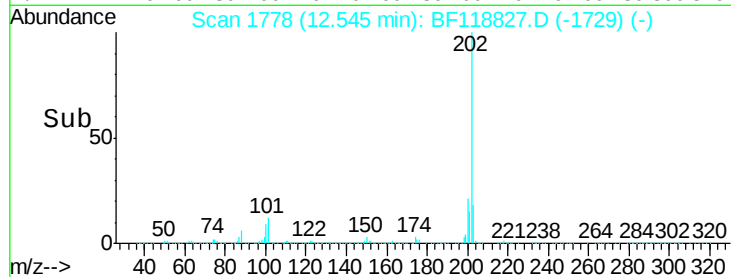
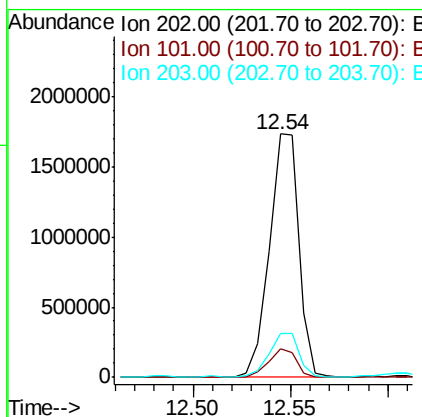
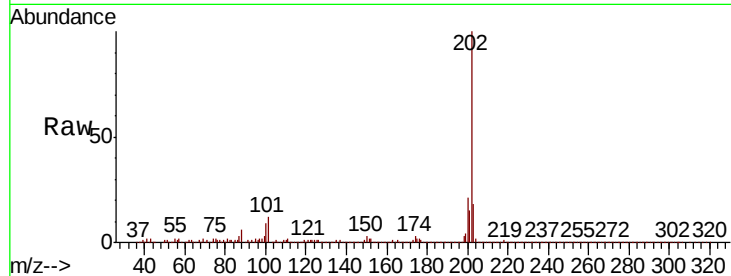
ClientSampleId :

TAL-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		1800224		
101	12.0	0.0	31.0		
203	18.3	0.0	38.7		

Manual Integrations
APPROVED

mohammad
2/6/2020 2:18:59 PM



#76

Chrysene-d12

Concen: 20.000 ng

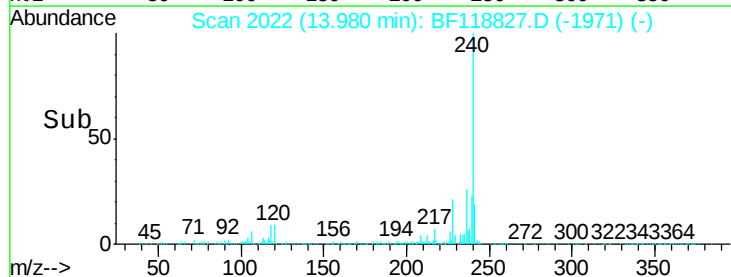
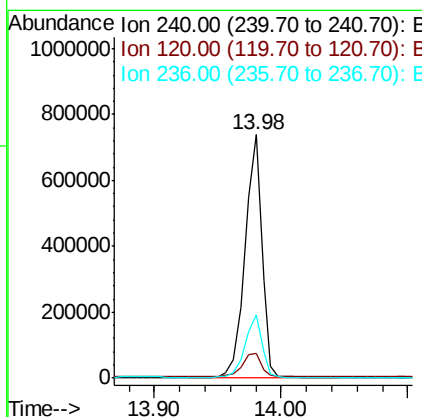
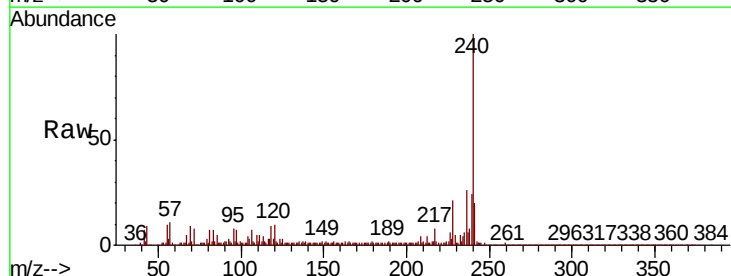
RT: 13.98 min Scan# 2022

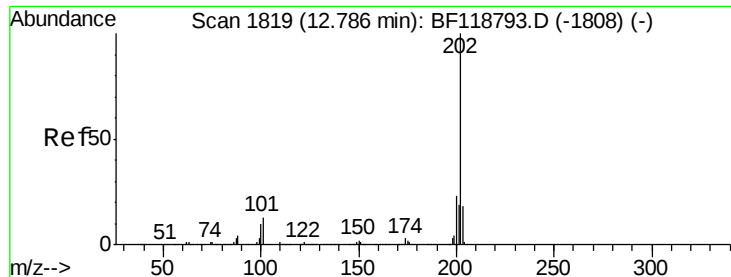
Delta R.T. -0.00 min

Lab File: BF118827.D

Acq: 5 Feb 2020 14:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		676097		
120	10.1	9.4	14.0		
236	26.1	21.0	31.6		





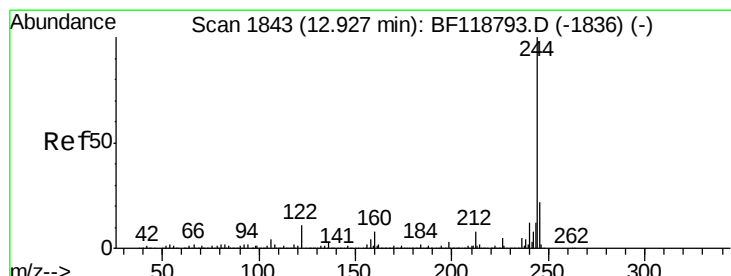
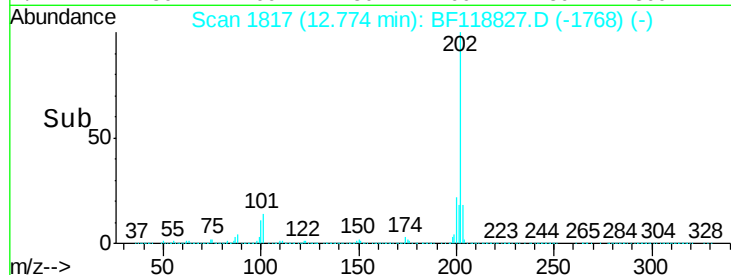
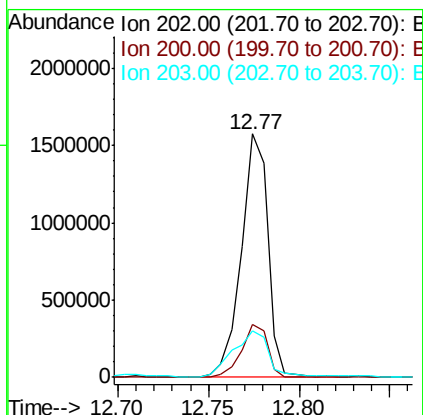
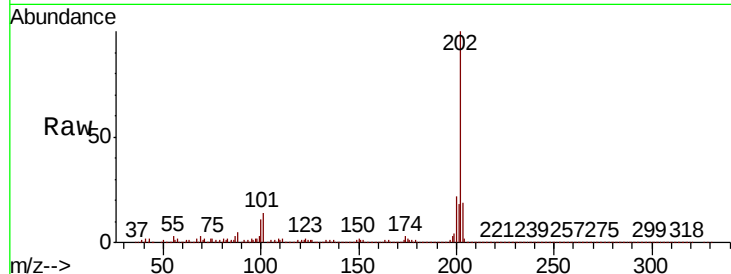
#78
Pvrene
Concen: 34.342 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampleId :
TAL-2

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	18.2	27.2
203	18.9	14.8	22.2

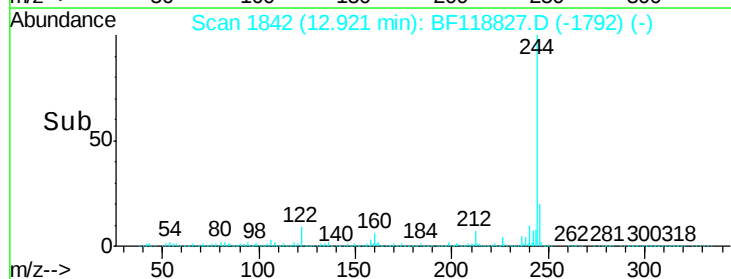
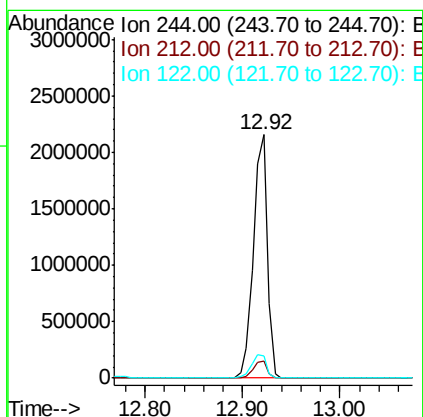
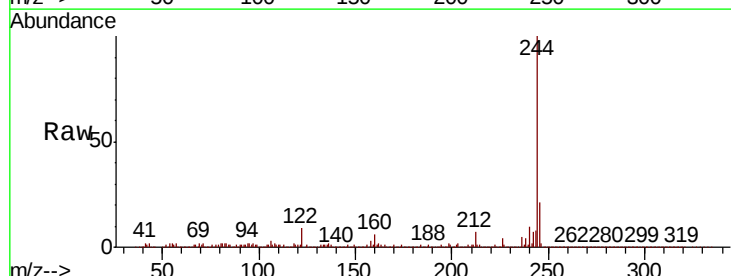
Manual Integrations
APPROVED

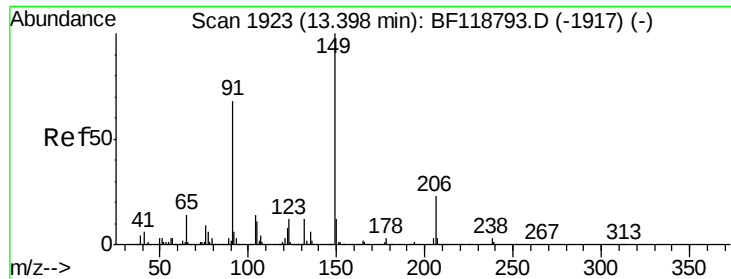
mohammad
2/6/2020 2:18:59 PM



#79
Terphenyl-d14
Concen: 64.959 ng
RT: 12.92 min Scan# 1842
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.5	9.7
122	9.1	8.9	13.3





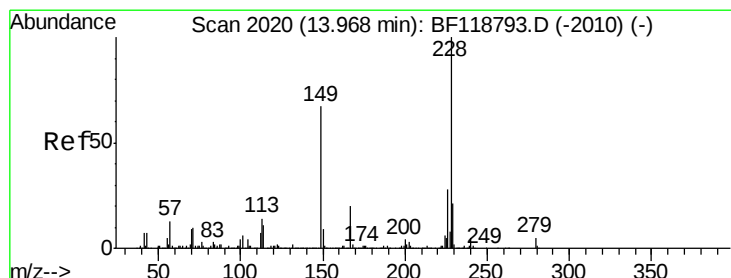
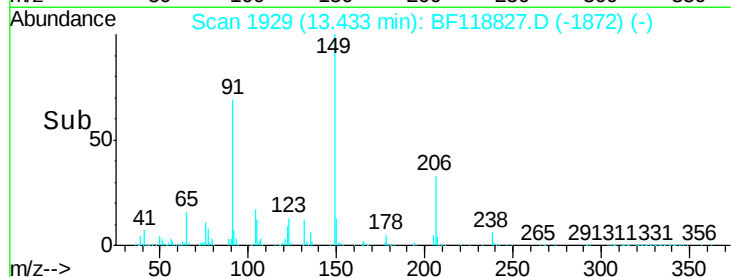
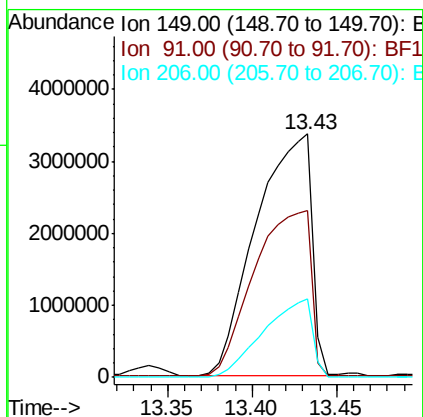
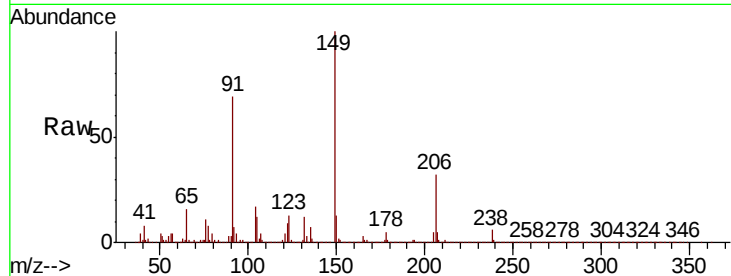
#80
Butylbenzylphthalate
Concen: 365.460 ng
RT: 13.43 min Scan# 1929
Delta R.T. 0.04 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampleId :
TAL-2

Tot Ion	Ratio	Lower	Upper
149	100		
91	68.7	54.7	82.1
206	32.4	18.5	27.7

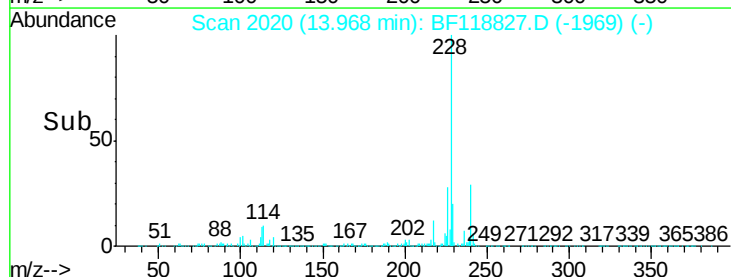
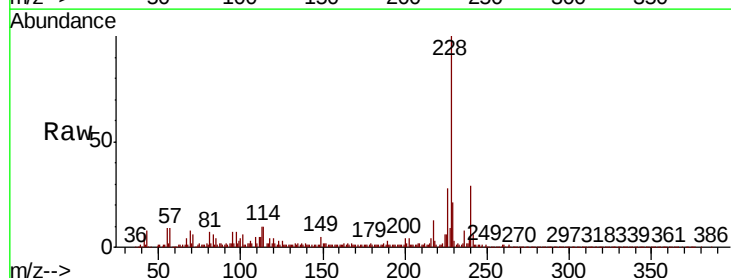
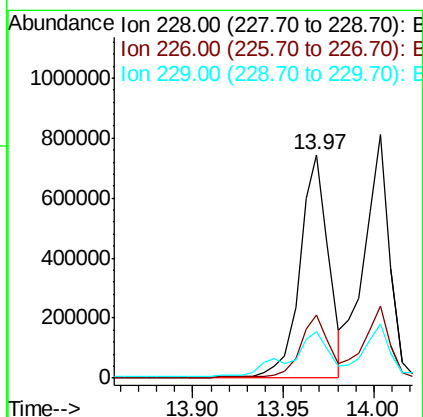
Manual Integrations
APPROVED

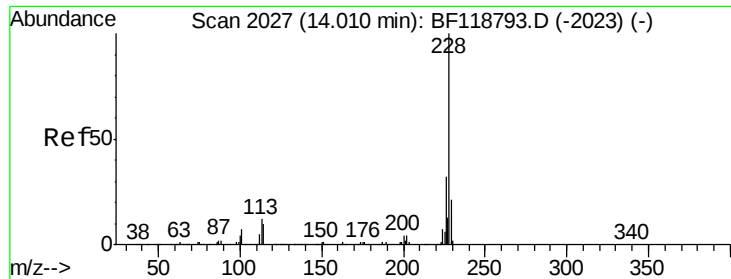
mohammad
2/6/2020 2:18:59 PM



#81
Benzo(a)anthracene
Concen: 20.344 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.00 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.7	34.1
229	20.9	16.6	25.0





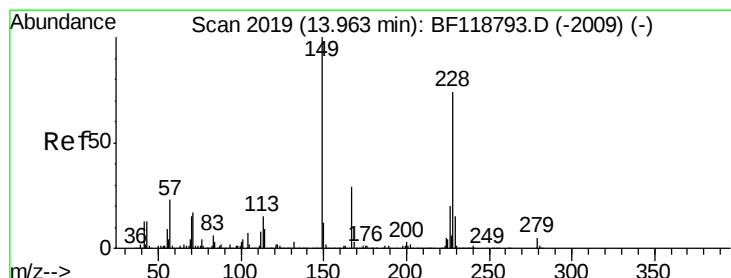
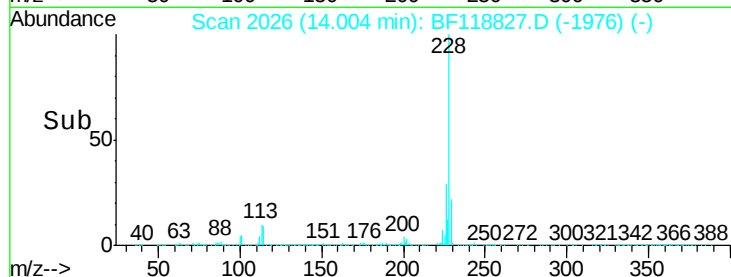
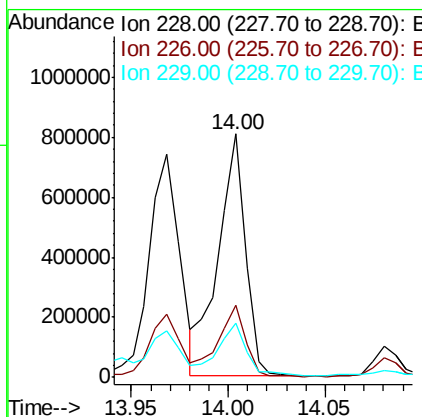
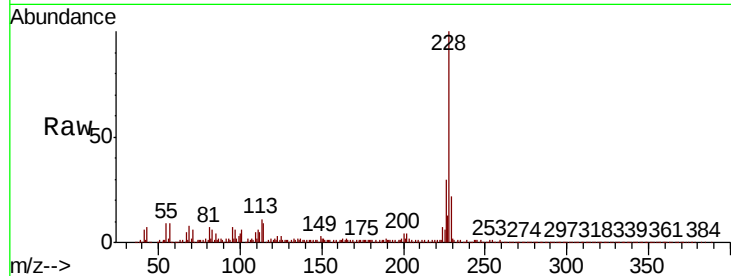
#83
 Chrvsene
 Concen: 19.468 ng m
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Instrument :
 BNA_F
 ClientSampled :
 TAL-2

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.4	38.0
229	22.2	16.9	25.3

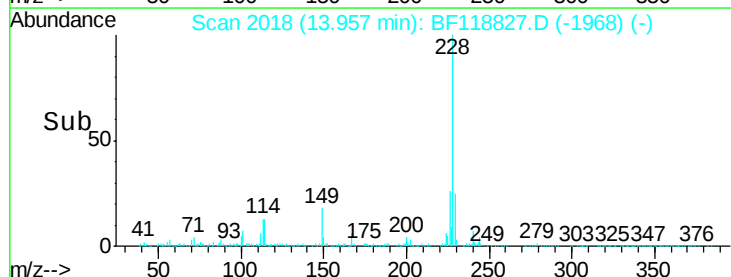
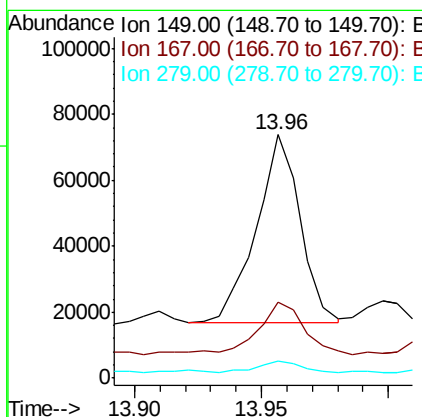
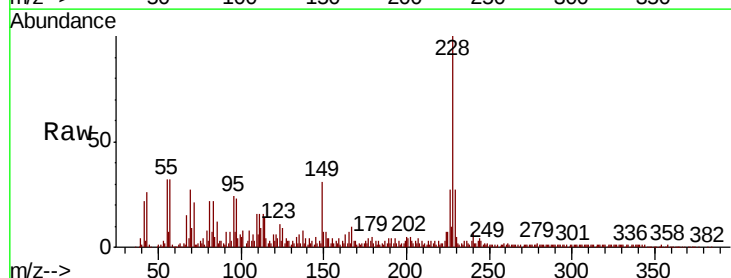
Manual Integrations
 APPROVED

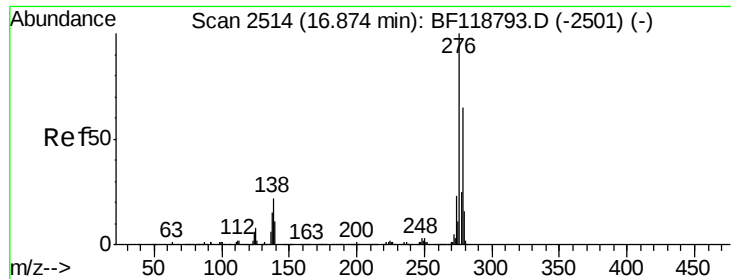
mohammad
 2/6/2020 2:18:59 PM



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 2.544 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF118827.D
 Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
149	100		
167	31.0	23.0	34.6
279	6.9	4.4	6.6#





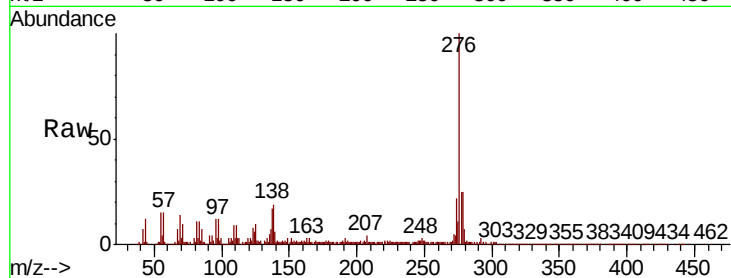
#86
Indeno(1,2,3-cd)pyrene
Concen: 10.698 ng
RT: 16.86 min Scan# 2512
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampled :
TAL-2

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.9	18.3	27.5
277	23.8	20.2	30.4

Manual Integrations
APPROVED

mohammad
2/6/2020 2:18:59 PM

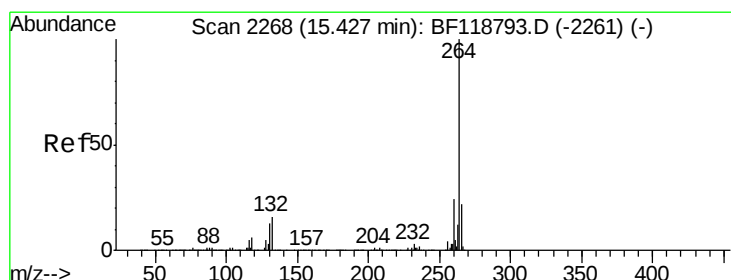
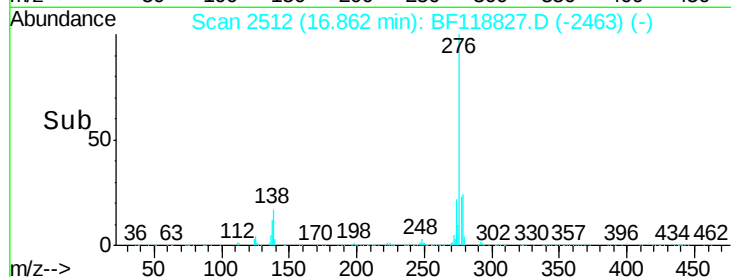
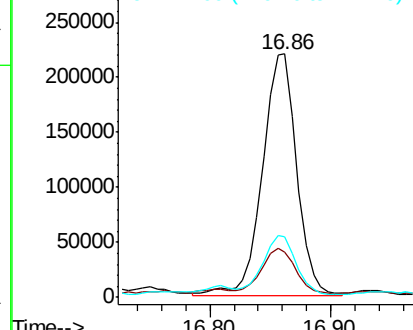


Abundance

Ion 276.00 (275.70 to 276.70): E

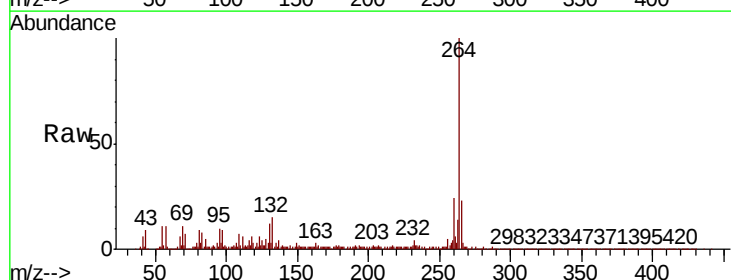
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.00 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	22.7	17.2	25.8

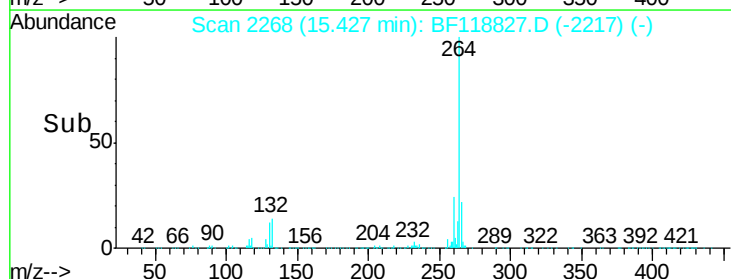
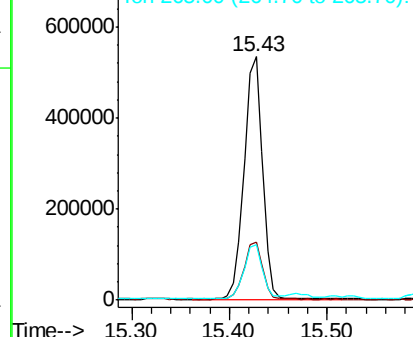


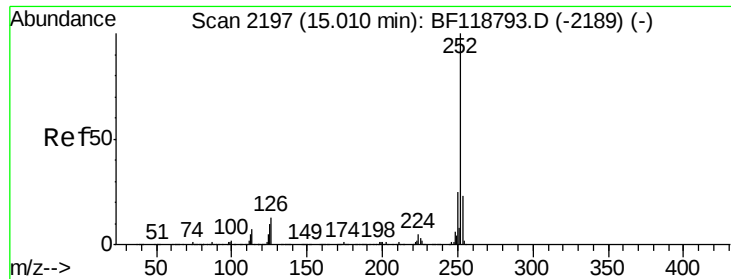
Abundance

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





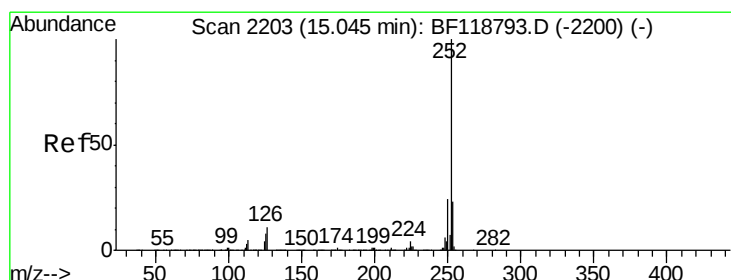
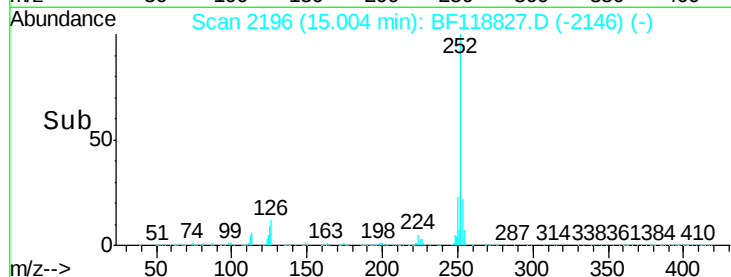
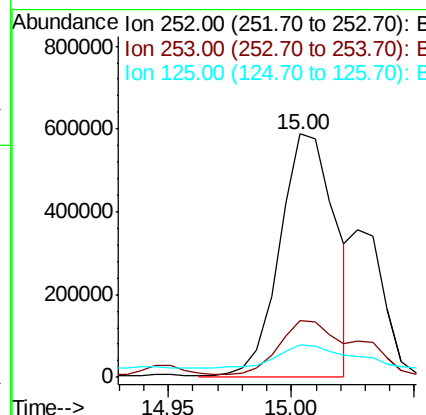
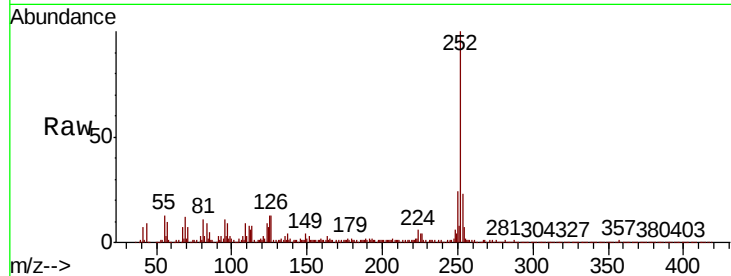
#88
Benzo(b)fluoranthene
Concen: 21.242 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampleId :
TAL-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	13.4	8.1	12.1

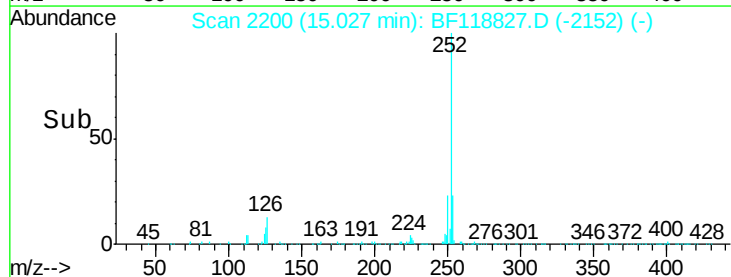
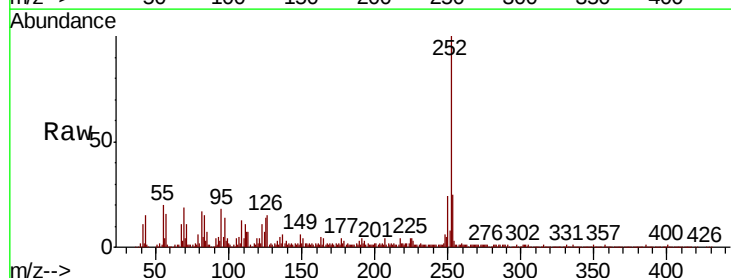
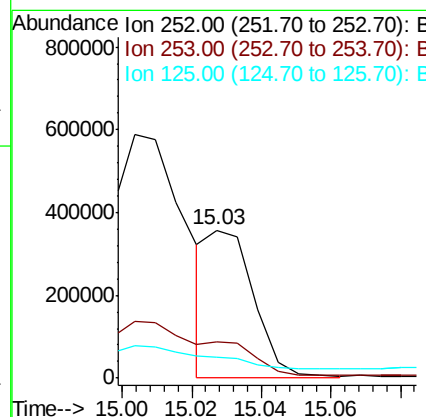
Manual Integrations
APPROVED

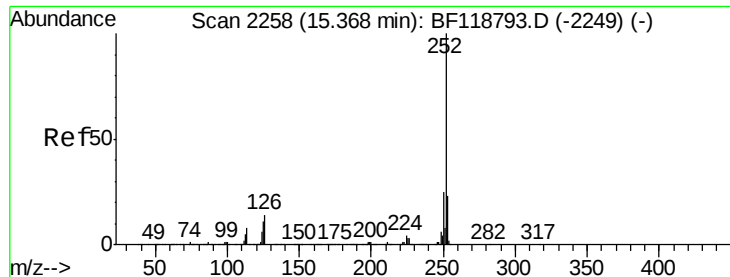
mohammad
2/6/2020 2:18:59 PM



#89
Benzo(k)fluoranthene
Concen: 8.569 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.02 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.2	27.4
125	14.4	7.0	10.6





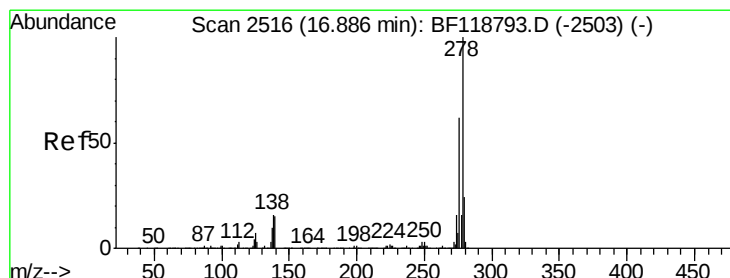
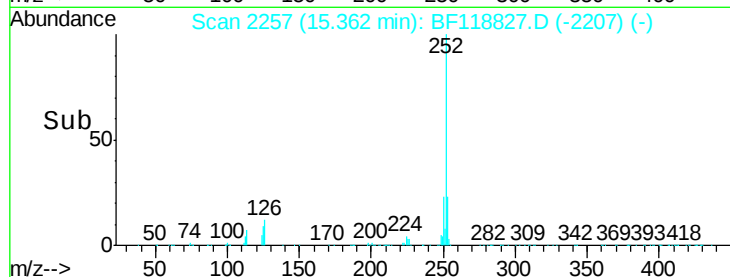
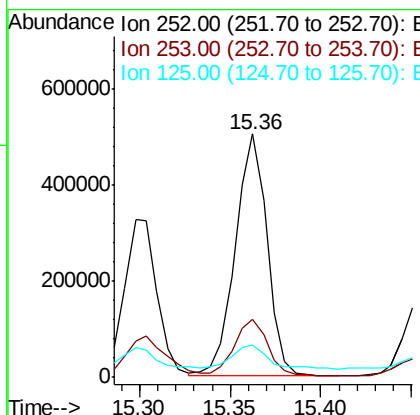
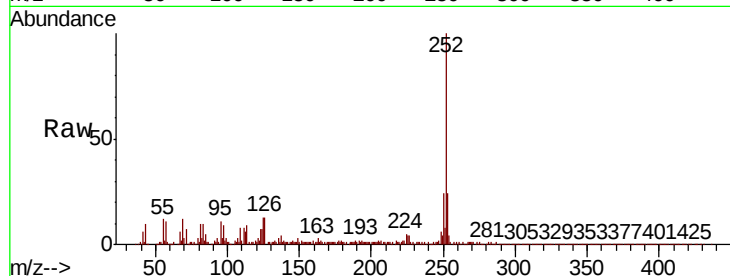
#90
Benzo(a)pyrene
Concen: 16.427 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.01 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Instrument :
BNA_F
ClientSampleId :
TAL-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	13.4	8.7	13.1

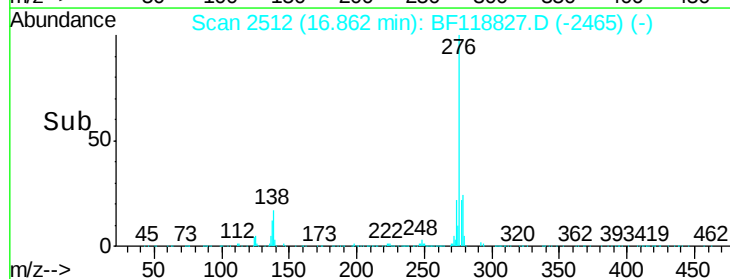
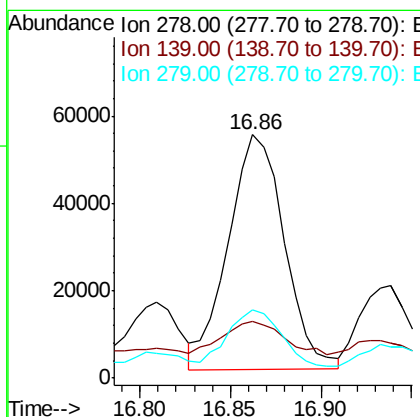
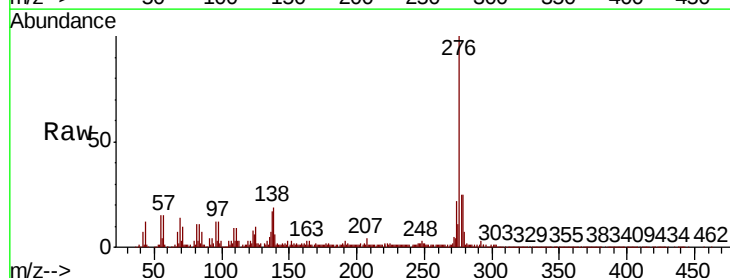
Manual Integrations
APPROVED

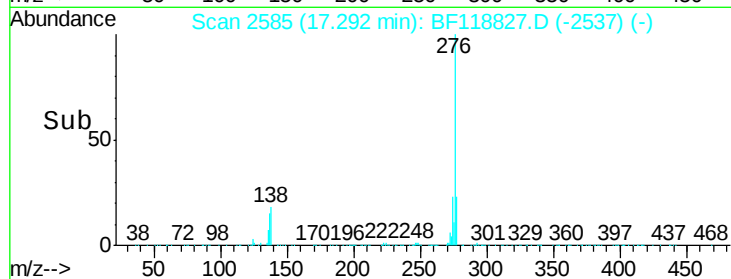
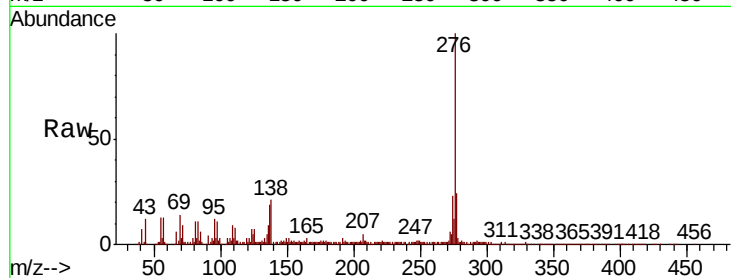
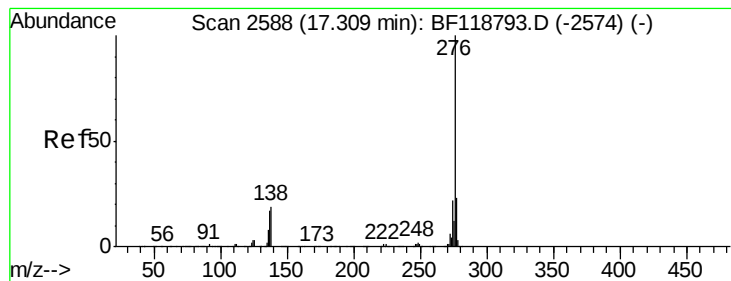
mohammad
2/6/2020 2:18:59 PM



#91
Dibenzo(a,h)anthracene
Concen: 3.481 ng
RT: 16.86 min Scan# 2512
Delta R.T. -0.02 min
Lab File: BF118827.D
Acq: 5 Feb 2020 14:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.3	12.3	18.5
279	27.9	19.1	28.7





#92

Benzo(a,h,i)perylene

Concen: 12.957 ng

RT: 17.29 min Scan# 2585

Delta R.T. -0.02 min

Lab File: BF118827.D

Acq: 5 Feb 2020 14:06

Instrument :

BNA_F

ClientSampleId :

TAL-2

Tot Ion:	276	Resp:	414076
Ion Ratio		Lower	Upper
276	100		
277	24.4	18.7	28.1
138	20.5	15.4	23.2

Manual Integrations
APPROVED

mohammad
2/6/2020 2:18:59 PM

