

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
 Data File : BF118354.D
 Acq On : 27 Dec 2019 22:55
 Operator : JU
 Sample : K6414-07DL 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-01DL

Manual Integrations
 APPROVED

mohammad
 12/30/2019 2:08:15 PM

Quant Time: Dec 28 02:55:32 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	126166	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	501778	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	255869	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	448583	20.00	ng	0.00
76) Chrysene-d12	14.05	240	318635	20.00	ng	0.00
87) Perylene-d12	15.54	264	282580	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	139756	18.91	ng	0.00
7) Phenol-d6	6.49	99	184507	20.12	ng	0.00
23) Nitrobenzene-d5	7.42	82	102194	11.65	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	51484	16.29	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	216918	12.94	ng	0.00
79) Terphenyl-d14	12.98	244	225637	11.75	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.16	128	66325	2.601	ng	98
52) Acenaphthene	9.93	154	59816	4.065	ng	99
55) Dibenzofuran	10.11	168	54673	2.515	ng	99
58) Fluorene	10.45	166	57463	3.274	ng	98
71) Phenanthrene	11.42	178	616973	25.229	ng	98
72) Anthracene	11.47	178	174947	7.147	ng	97
73) Carbazole	11.63	167	52309	2.408	ng	98
75) Fluoranthene	12.62	202	546332	22.137	ng	98
78) Pyrene	12.84	202	457423	17.580	ng	99
81) Benzo(a)anthracene	14.04	228	204036	9.148	ng	99
83) Chrysene	14.07	228	159829	7.484	ng	98
86) Indeno(1,2,3-cd)pyrene	17.05	276	64564	3.548	ng	# 93
88) Benzo(b)fluoranthene	15.10	252	180840m	9.641	ng	
89) Benzo(k)fluoranthene	15.13	252	63043m	3.500	ng	
90) Benzo(a)pyrene	15.48	252	128164	7.756	ng	98
92) Benzo(g,h,i)perylene	17.51	276	53212	3.842	ng	99

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

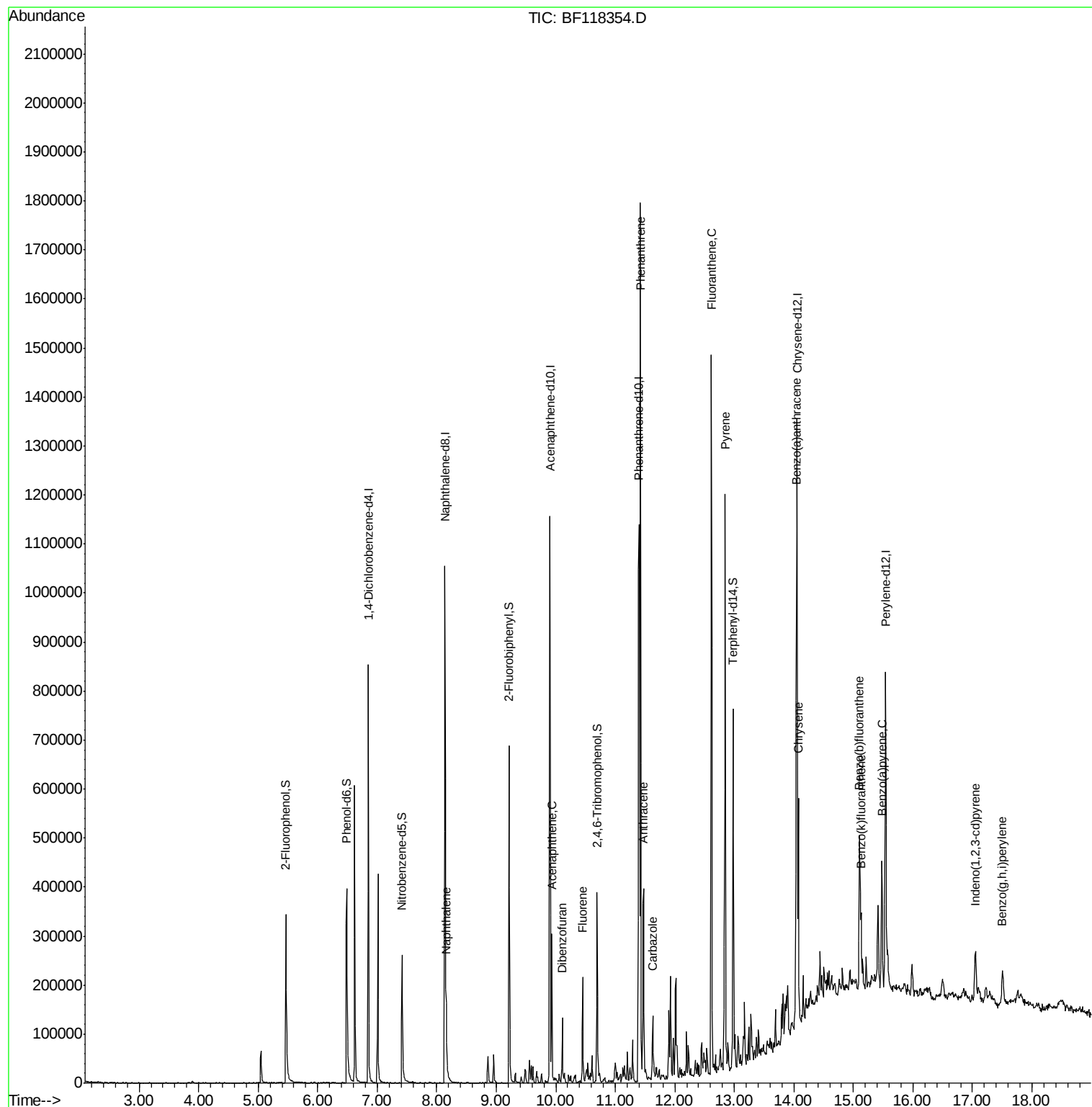
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
Data File : BF118354.D
Acq On : 27 Dec 2019 22:55
Operator : JU
Sample : K6414-07DL 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

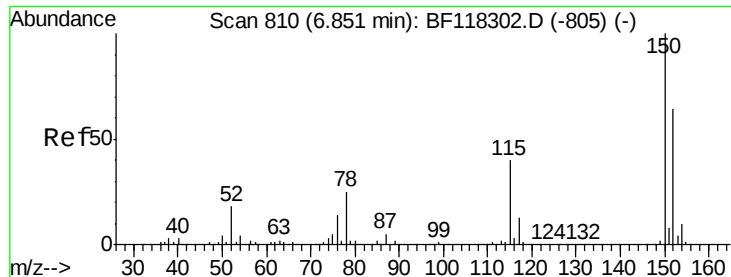
Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM

Quant Time: Dec 28 02:55:32 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

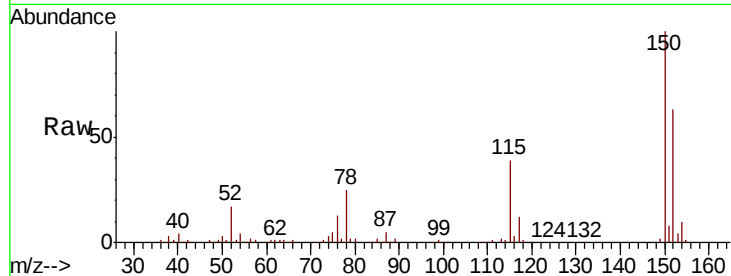
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.4	188.2
115	61.8	50.2	75.4

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM

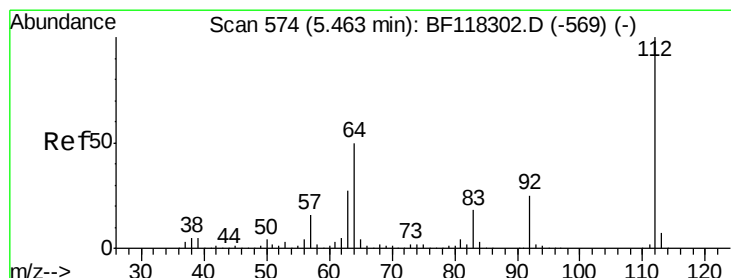
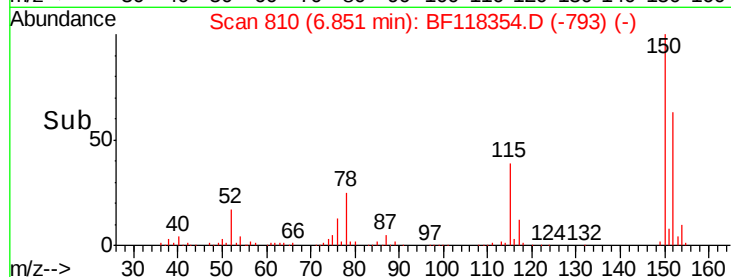
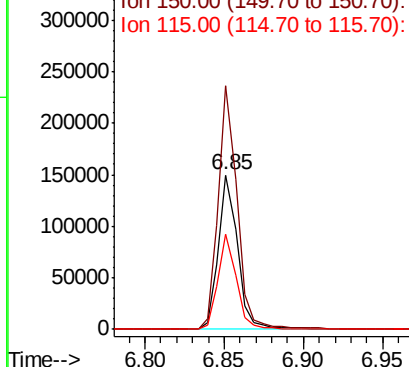


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

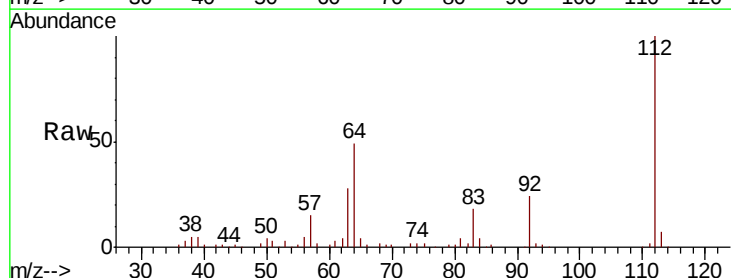
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 18.909 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.9	39.7	59.5
63	27.8	21.7	32.5

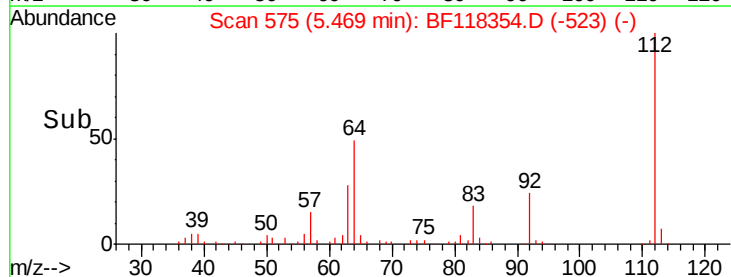
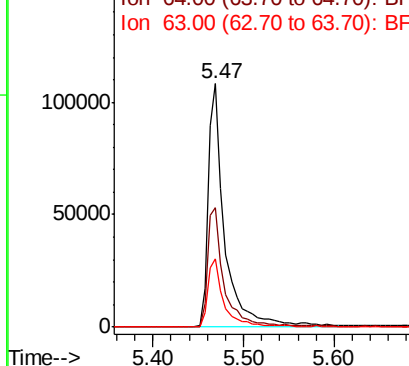


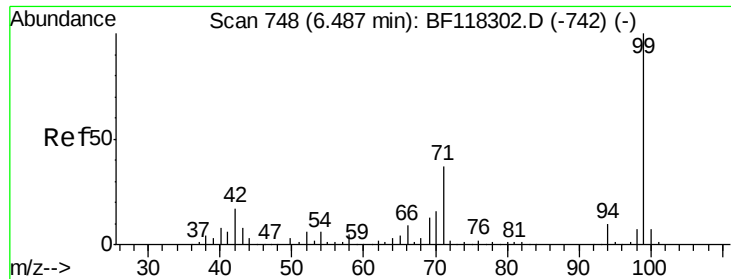
Abundance

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: 20.123 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Instrument :

BNA_F

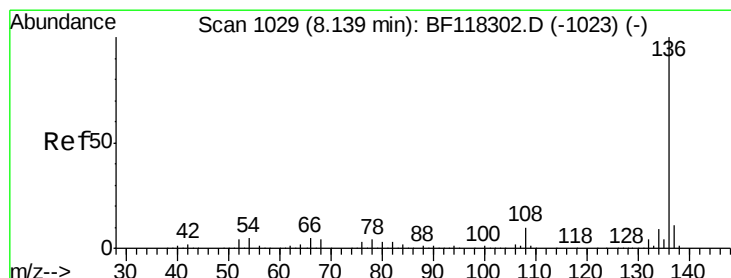
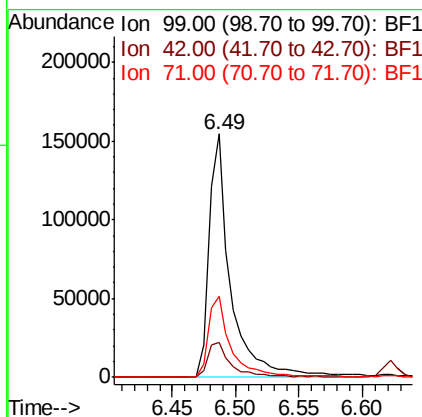
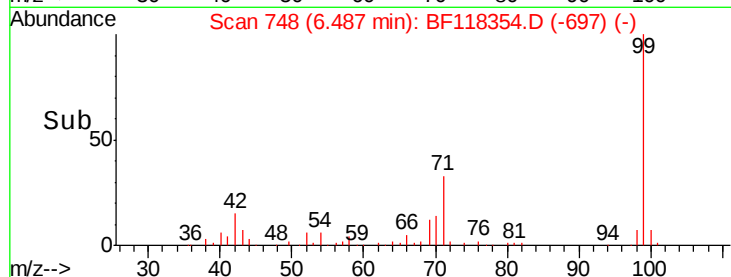
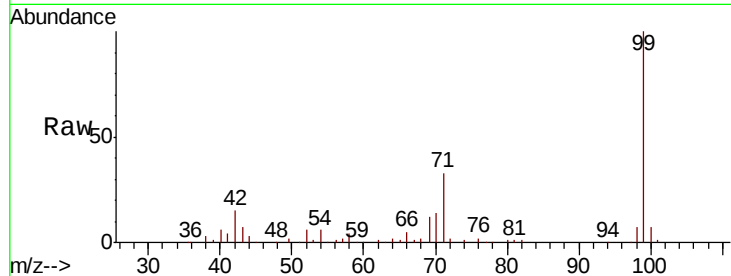
ClientSampleId :

K183-WC-01DL

Tot Ion:	99	Resp:	184507
Ion Ratio	Lower	Upper	
99	100		
42	14.5	13.5	20.3
71	33.4	29.4	44.2

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM



#21

Naphthalene-d8

Concen: 20.000 ng

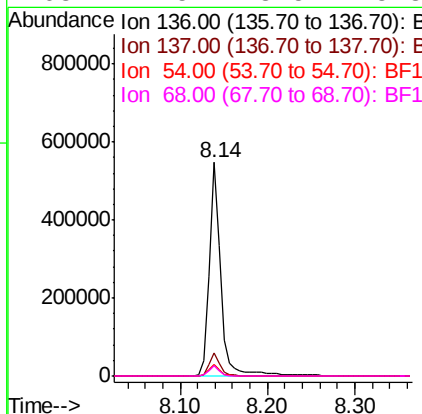
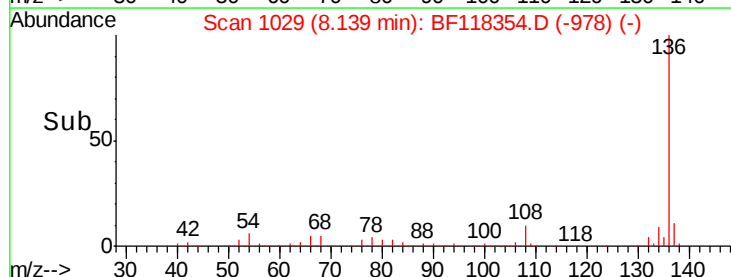
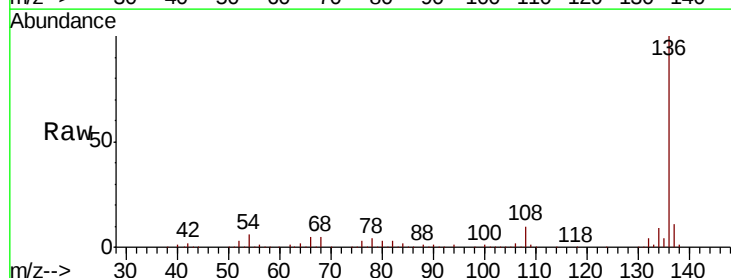
RT: 8.14 min Scan# 1029

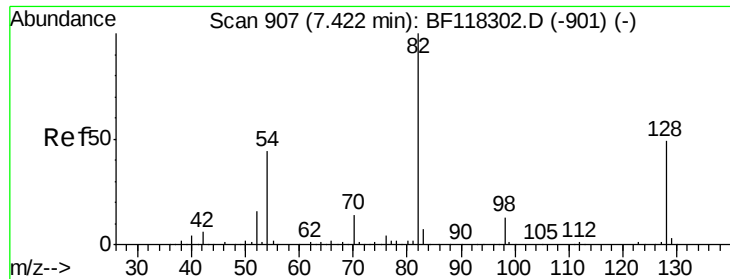
Delta R.T. -0.00 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Tgt Ion:	136	Resp:	501778
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	5.7	4.2	6.4
68	4.5	3.5	5.3





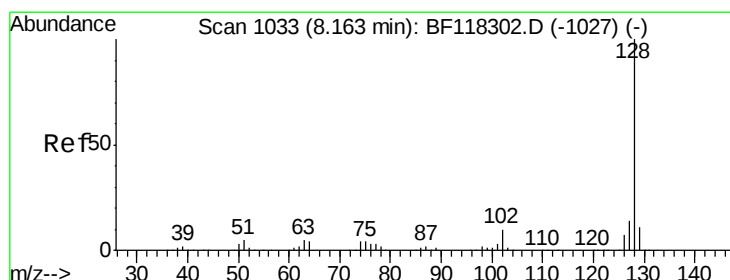
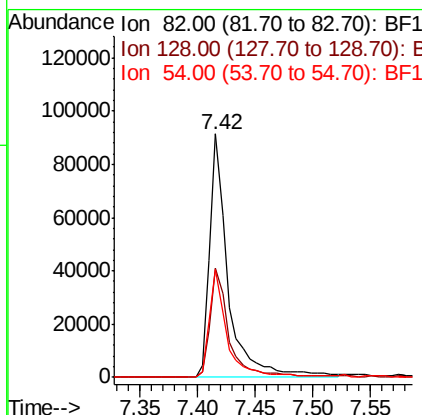
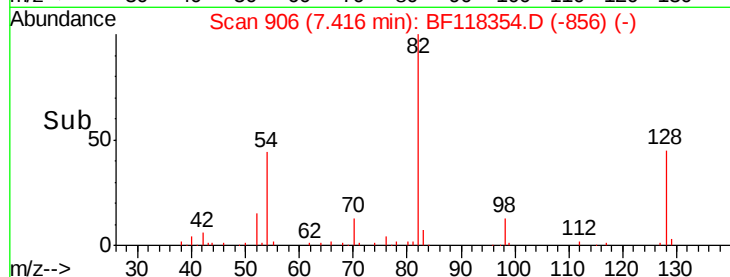
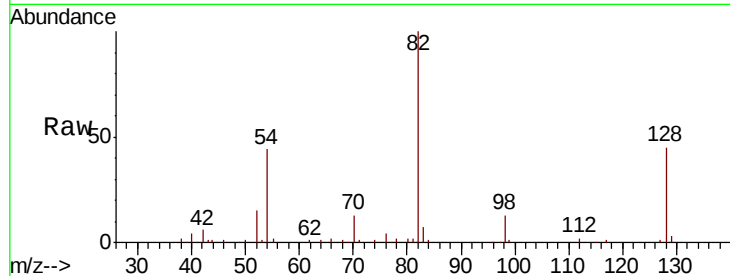
#23
 Nitrobenzene-d5
 Concen: 11.649 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF118354.D
 Acq: 27 Dec 2019 22:55

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-01DL

Tot Ion:	82	Resp:	102194
Ion Ratio	Lower	Upper	
82	100		
128	45.0	39.6	59.4
54	44.3	34.9	52.3

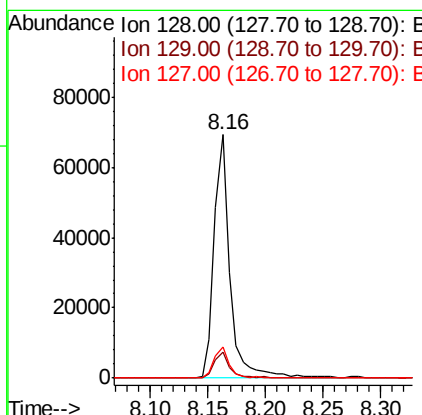
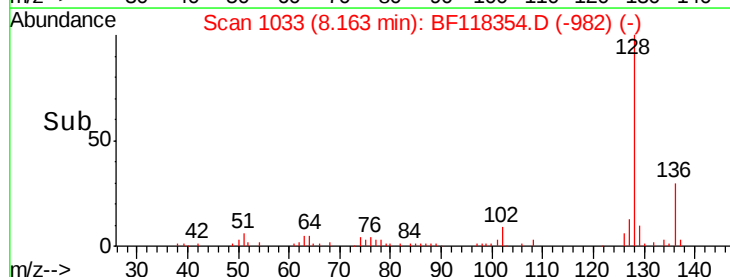
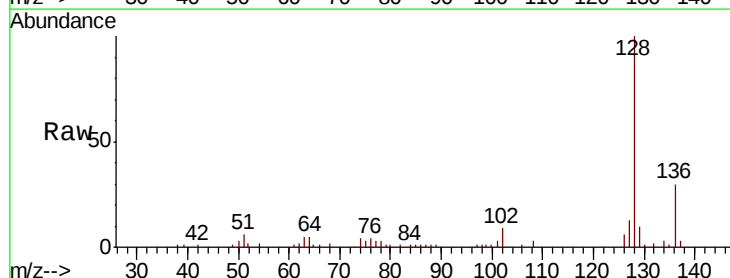
Manual Integrations
 APPROVED

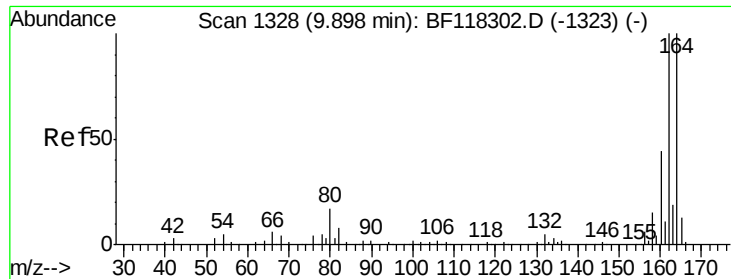
mohammad
 12/30/2019 2:08:15 PM



#31
 Naphthalene
 Concen: 2.601 ng
 RT: 8.16 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: BF118354.D
 Acq: 27 Dec 2019 22:55

Tgt Ion:	128	Resp:	66325
Ion Ratio	Lower	Upper	
128	100		
129	10.5	9.0	13.4
127	12.8	11.0	16.4





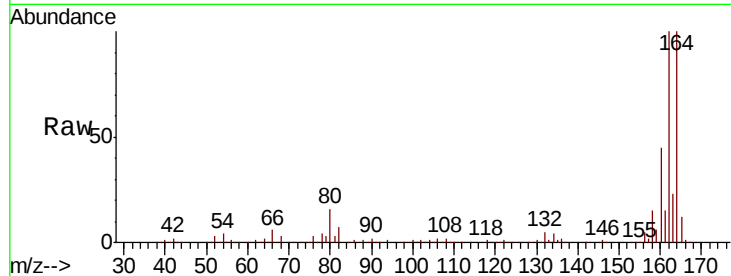
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

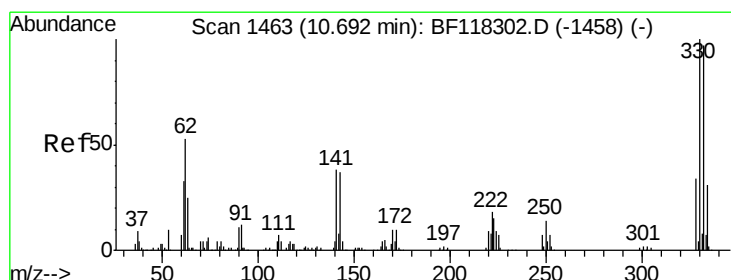
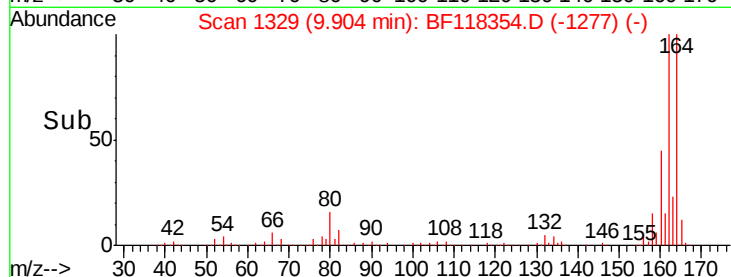
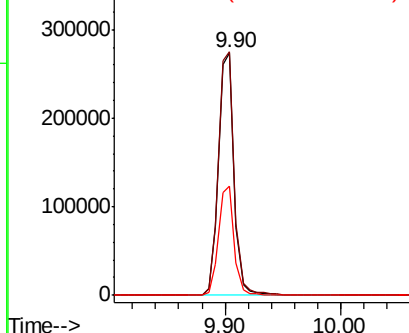
Tot Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.0	120.0
160	45.3	34.8	52.2

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM

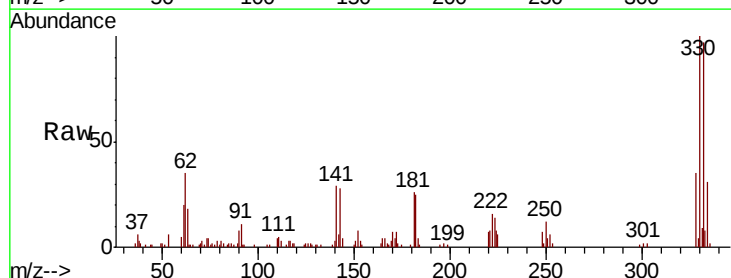


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

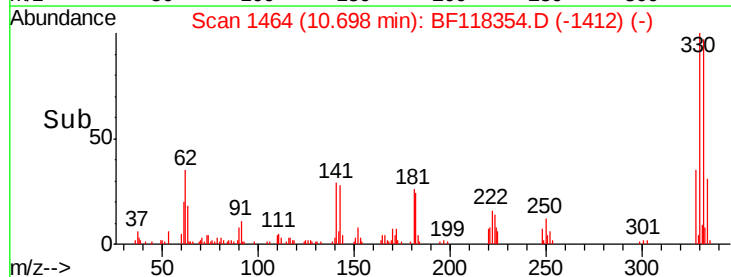
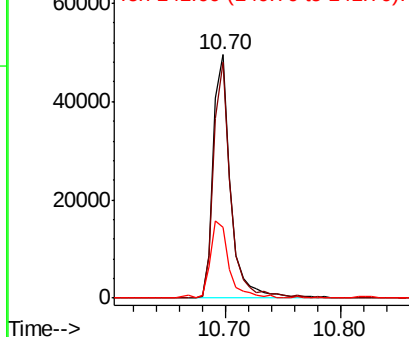


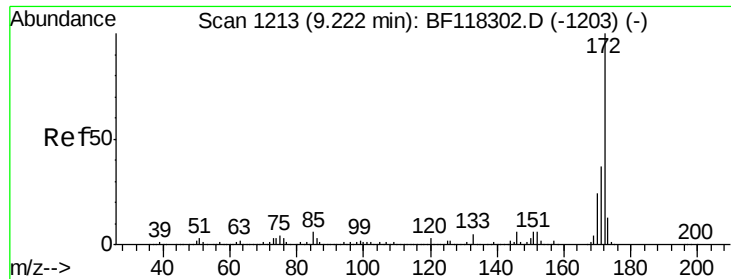
#42
2,4,6-Tribromophenol
Concen: 16.293 ng
RT: 10.70 min Scan# 1464
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.6	114.8
141	34.3	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





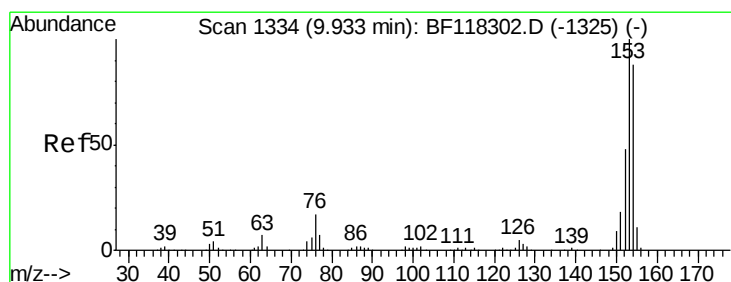
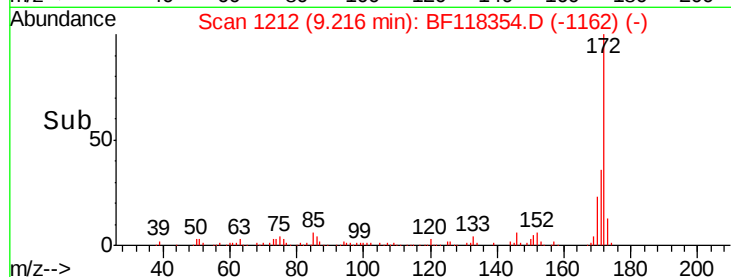
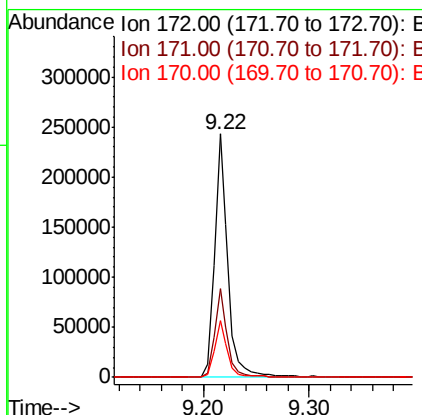
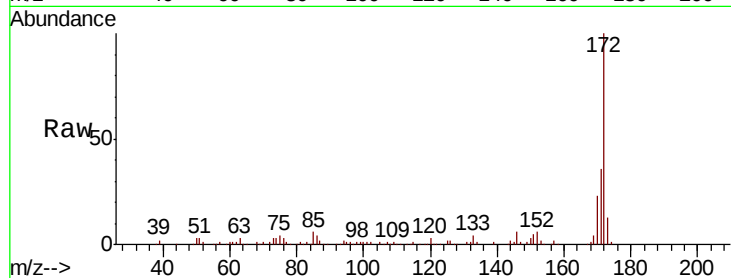
#45
2-Fluorobiphenyl
Concen: 12.941 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
172	100		216918		
171	36.2	29.3		43.9	
170	23.3	19.2		28.8	

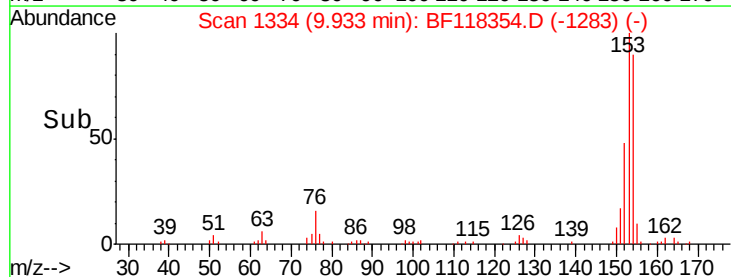
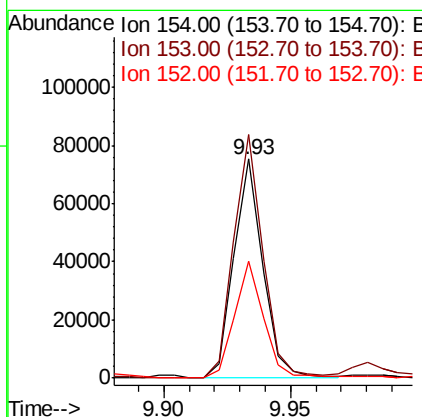
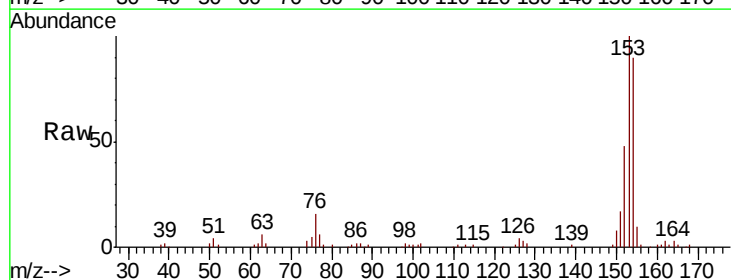
Manual Integrations
APPROVED

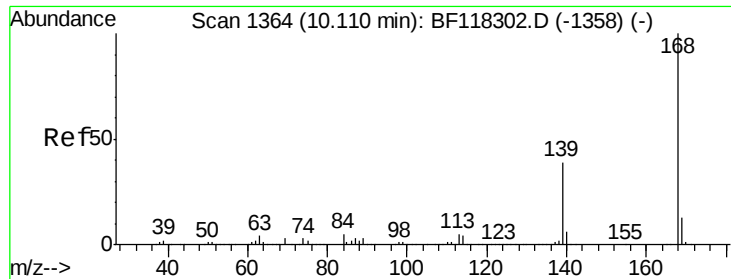
mohammad
12/30/2019 2:08:15 PM



#52
Acenaphthene
Concen: 4.065 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100		59816		
153	111.2	90.6		136.0	
152	53.6	43.1		64.7	





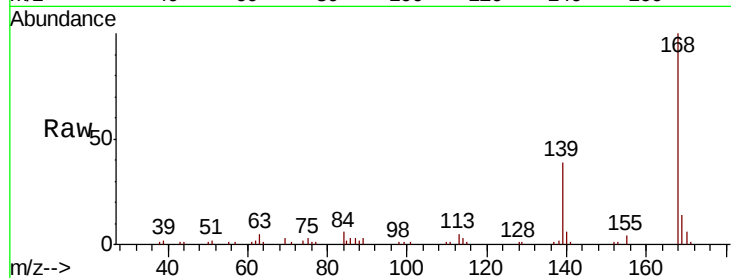
#55
Dibenzenofuran
Concen: 2.515 ng
RT: 10.11 min Scan# 1364
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

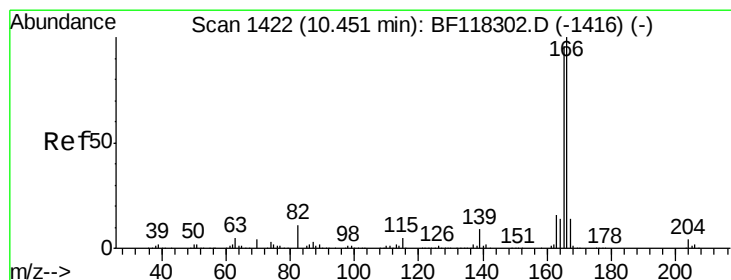
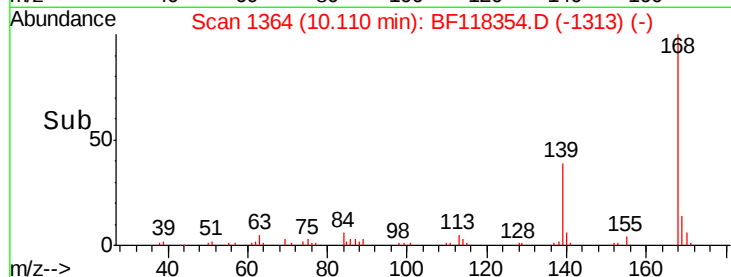
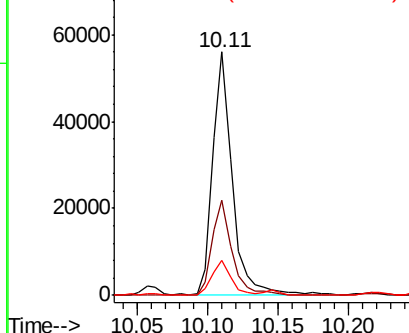
Tot Ion	Ratio	Lower	Upper
168	100		
139	39.2	31.5	47.3
169	14.4	10.4	15.6

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM



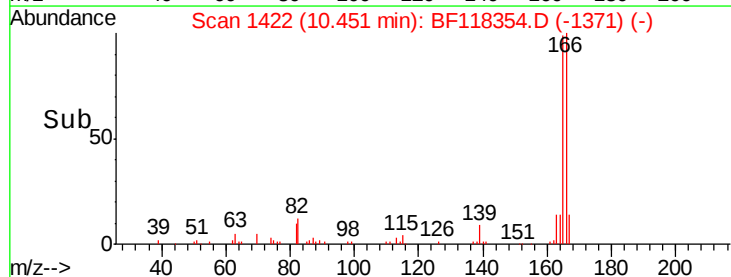
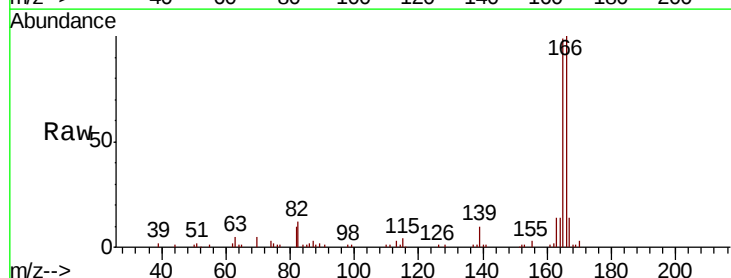
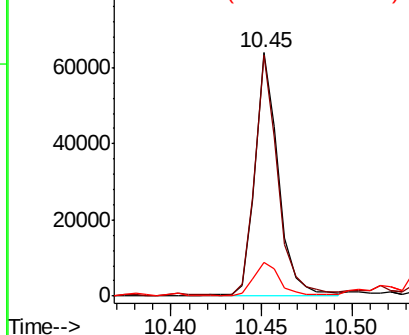
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

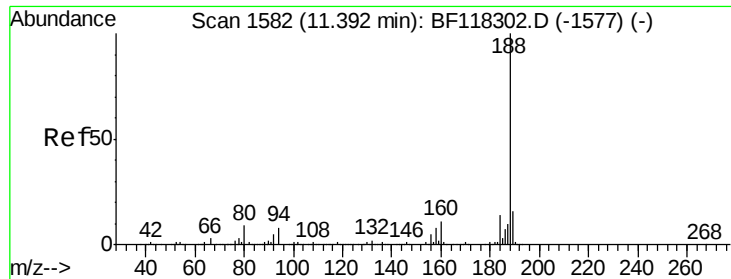


#58
Fluorene
Concen: 3.274 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	77.0	115.4
167	13.7	10.9	16.3

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





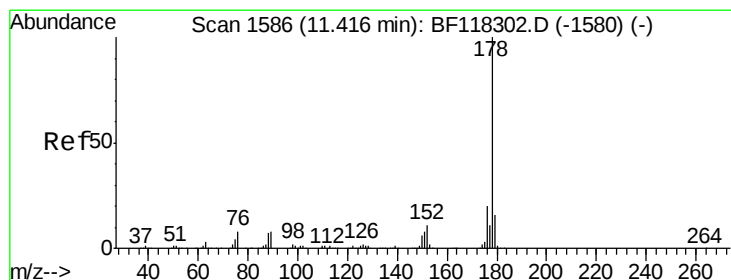
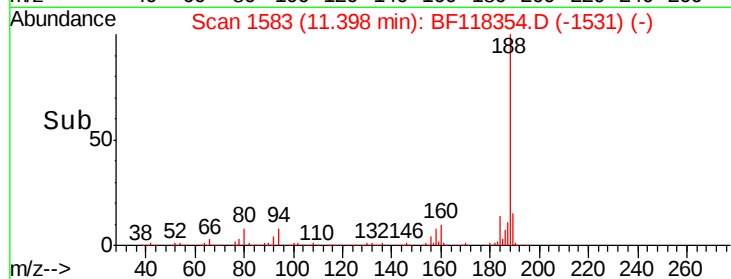
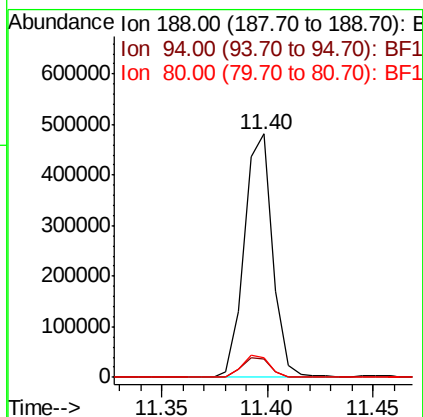
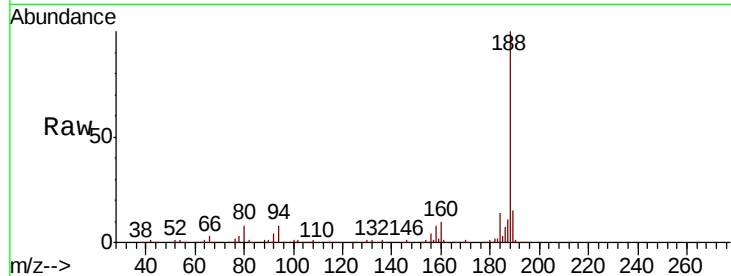
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	448583		
94	7.7		6.7	10.1
80	8.2		7.2	10.8

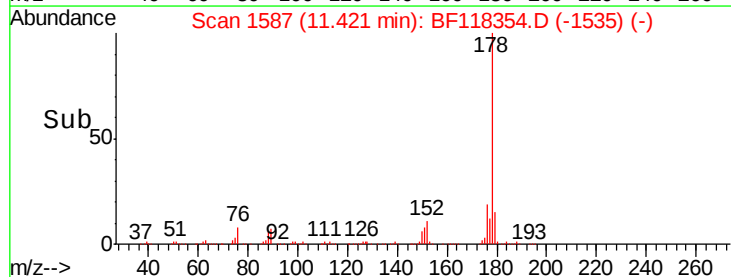
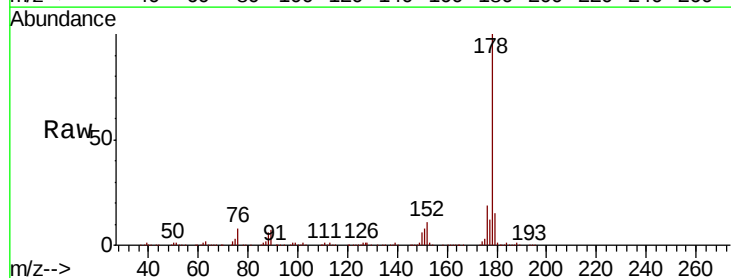
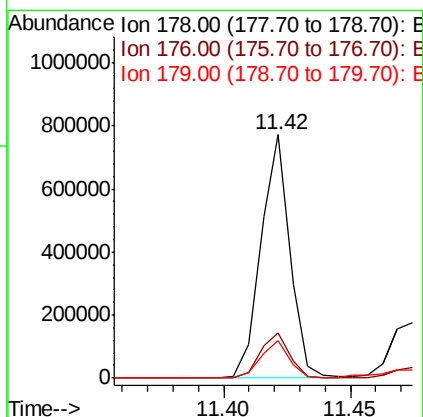
Manual Integrations
APPROVED

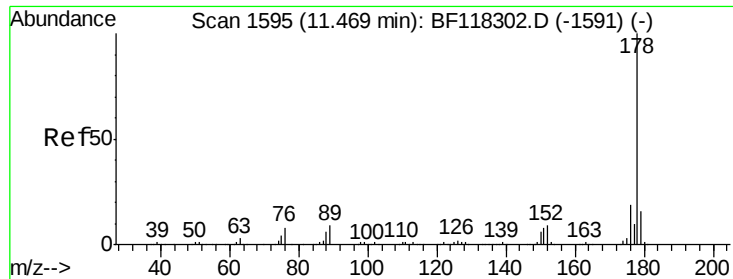
mohammad
12/30/2019 2:08:15 PM



#71
Phenanthrene
Concen: 25.229 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	616973		
176	18.5		15.6	23.4
179	15.4		12.6	19.0





#72

Anthracene

Concen: 7.147 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.01 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Instrument :

BNA_F

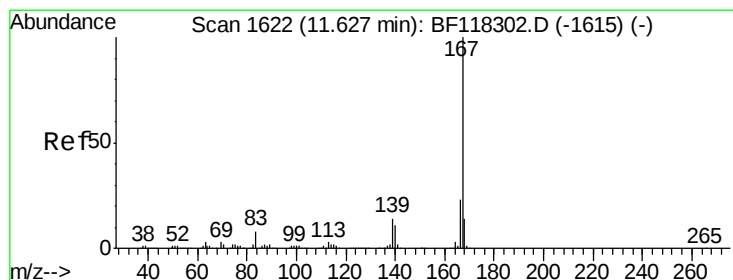
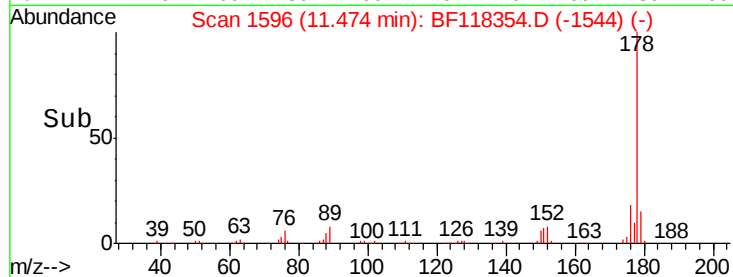
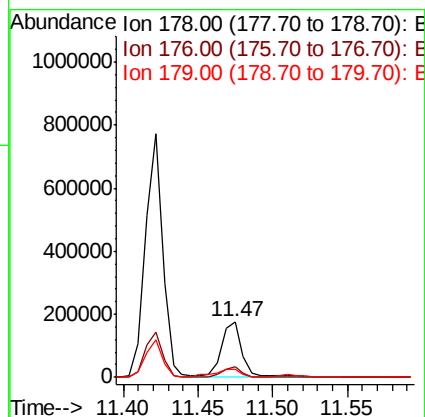
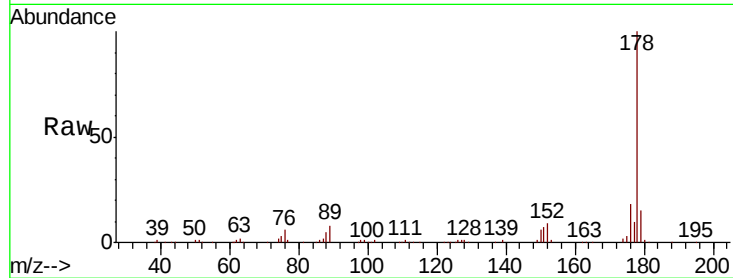
ClientSampleId :

K183-WC-01DL

Tot Ion:	178	Resp:	174947
Ion Ratio	Lower	Upper	
178	100		
176	18.0	15.2	22.8
179	14.7	12.9	19.3

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM



#73

Carbazole

Concen: 2.408 ng

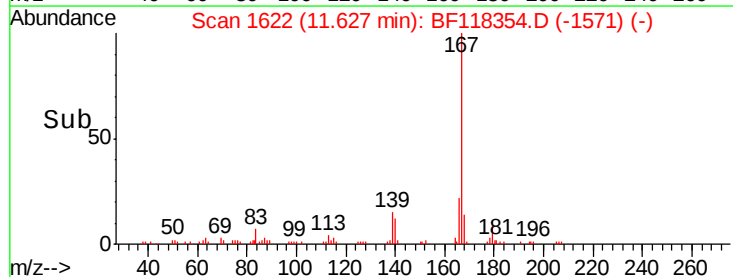
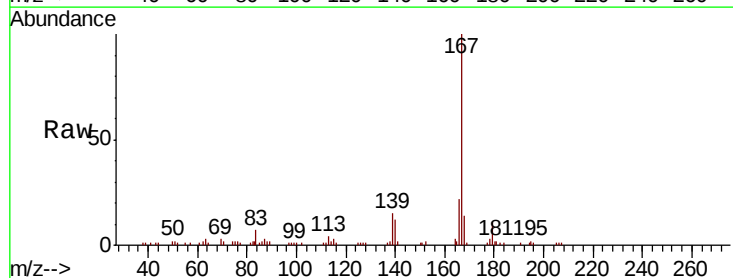
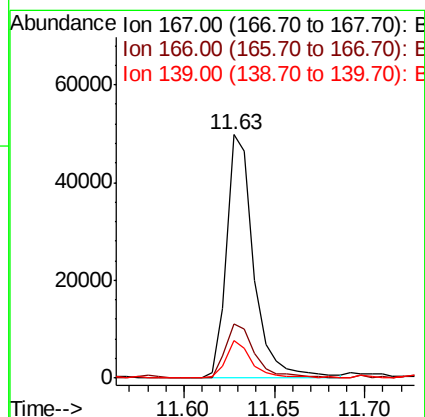
RT: 11.63 min Scan# 1622

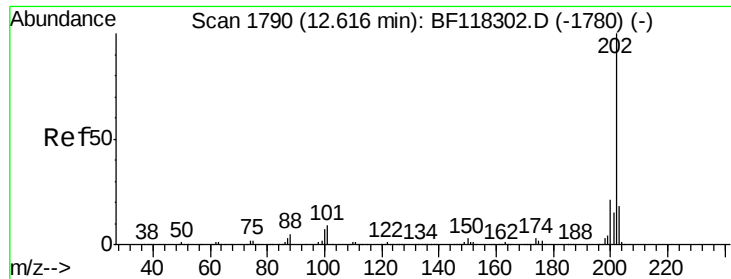
Delta R.T. -0.00 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Tgt Ion:	167	Resp:	52309
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.1	27.1
139	15.5	11.5	17.3





#75

Fluoranthene

Concen: 22.137 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Instrument :

BNA_F

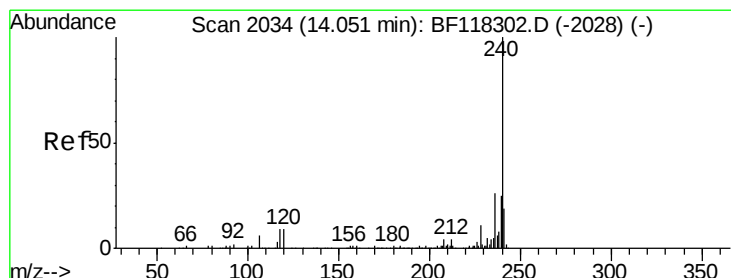
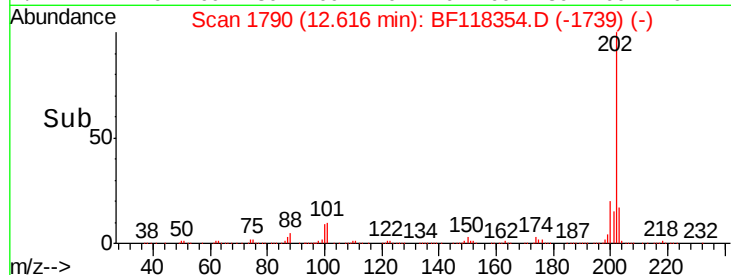
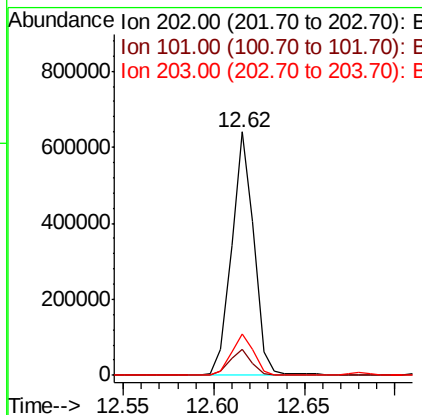
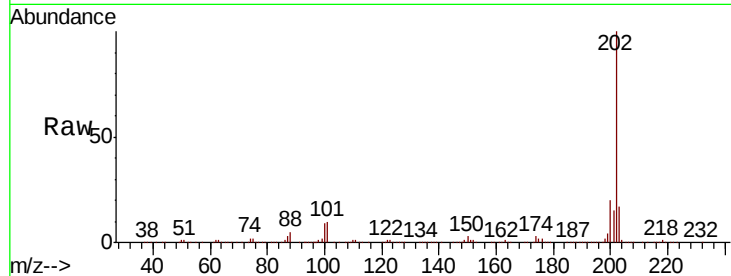
ClientSampleId :

K183-WC-01DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	546332		
101	10.5		0.0	29.5
203	17.2		0.0	37.6

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM



#76

Chrysene-d12

Concen: 20.000 ng

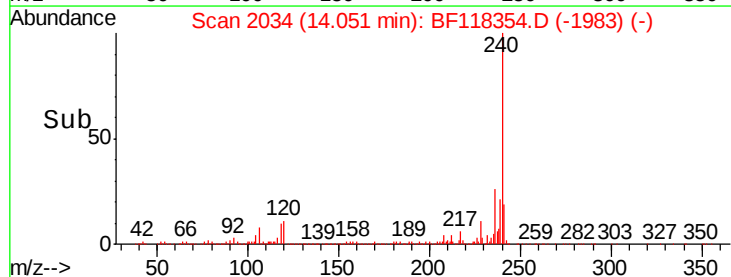
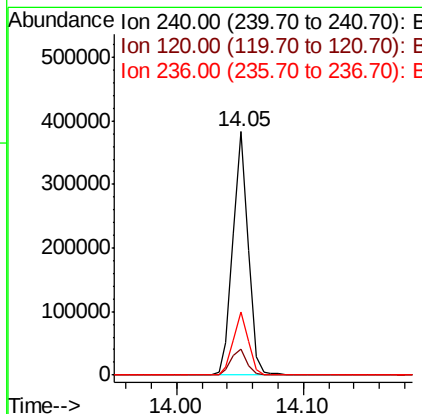
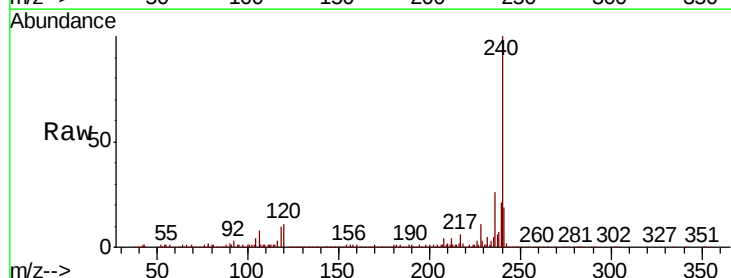
RT: 14.05 min Scan# 2034

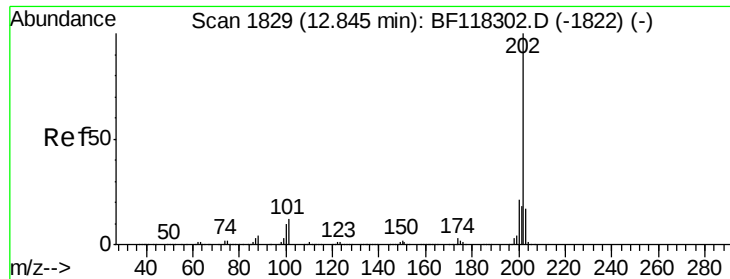
Delta R.T. -0.00 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	318635		
120	10.6		7.1	10.7
236	25.8		21.0	31.6





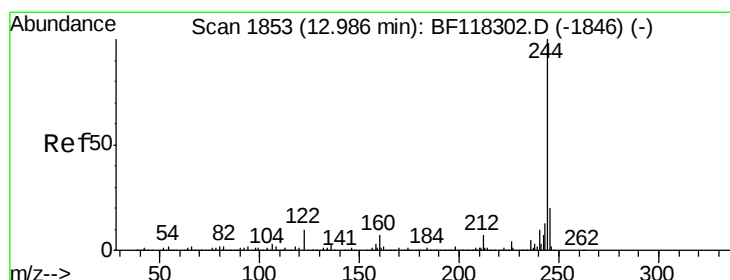
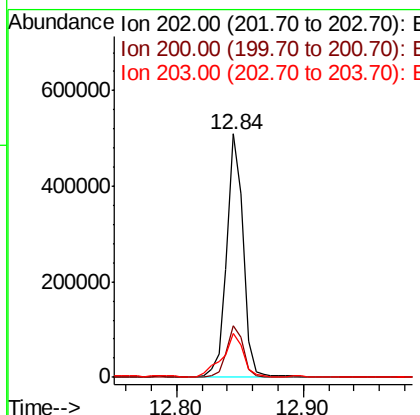
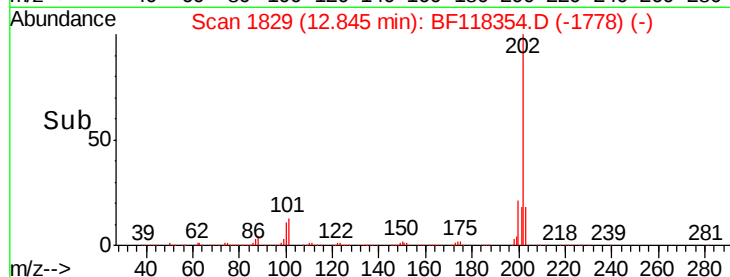
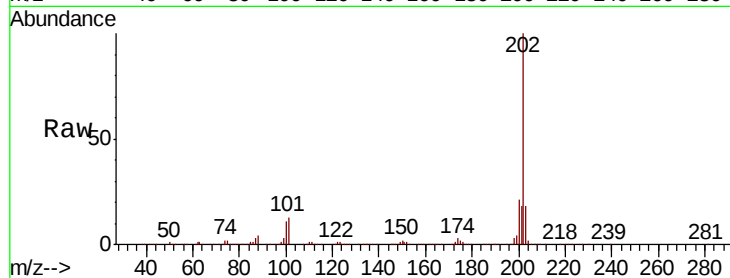
#78
Pvrene
Concen: 17.580 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	18.1	13.9	20.9

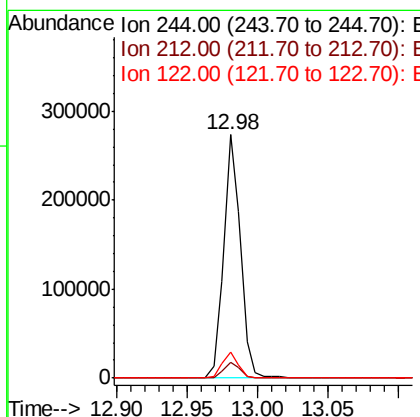
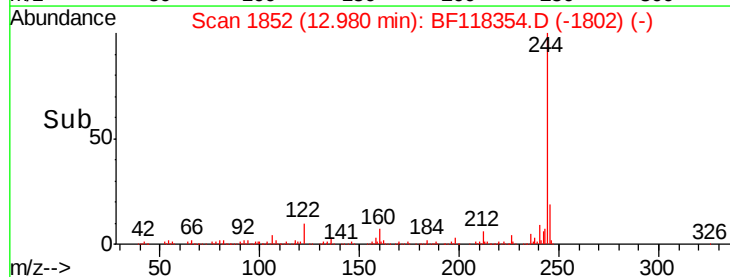
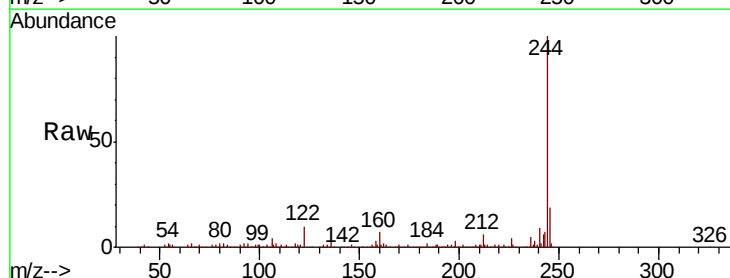
Manual Integrations
APPROVED

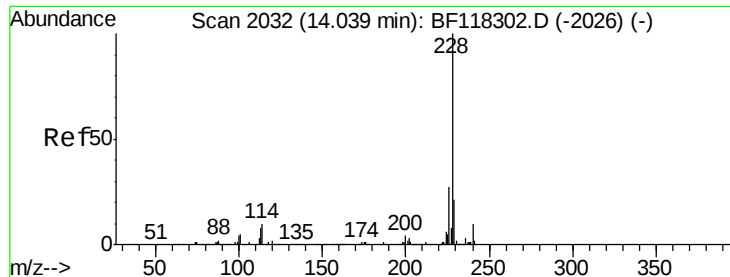
mohammad
12/30/2019 2:08:15 PM



#79
Terphenyl-d14
Concen: 11.748 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.2
122	10.5	7.8	11.8





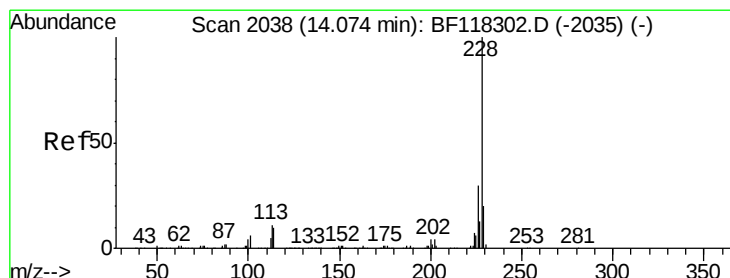
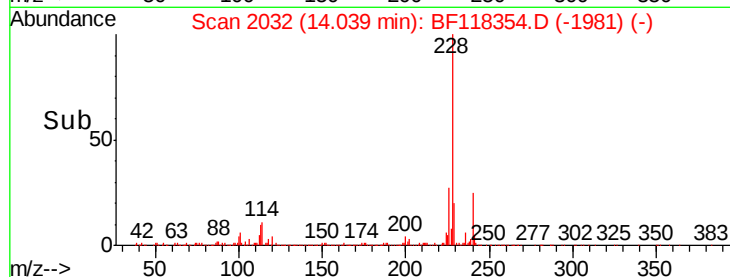
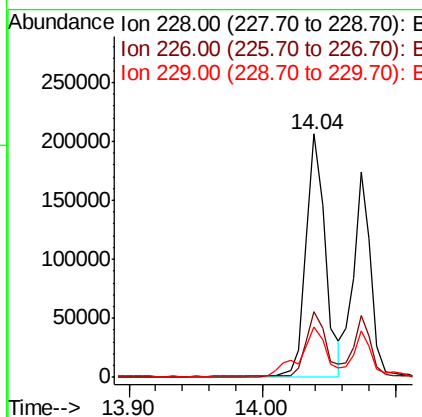
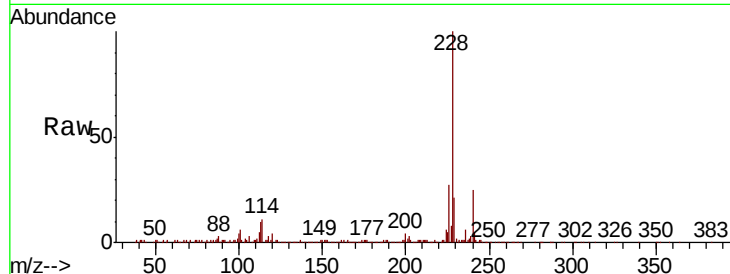
#81
Benzo(a)anthracene
Concen: 9.148 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.0	33.0
229	20.7	16.6	24.8

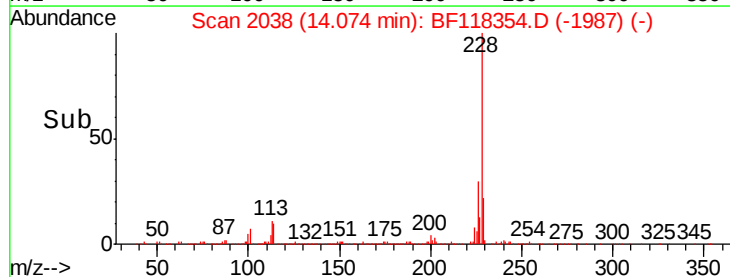
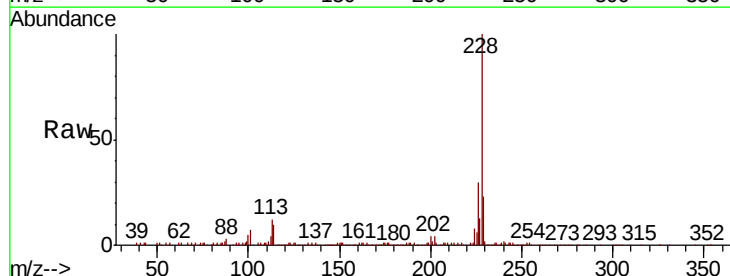
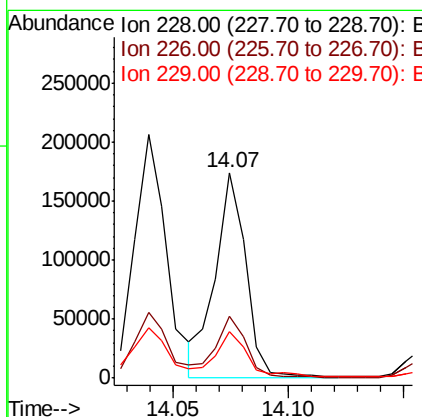
Manual Integrations
APPROVED

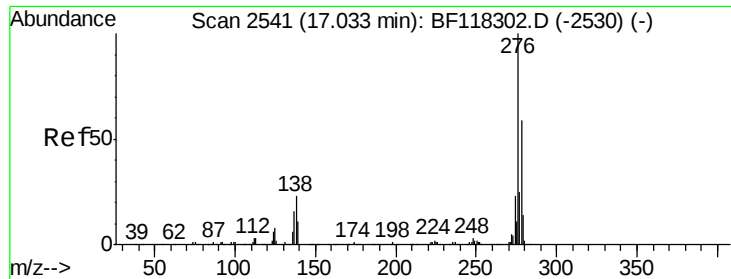
mohammad
12/30/2019 2:08:15 PM



#83
Chrysene
Concen: 7.484 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.9	35.9
229	22.8	16.1	24.1





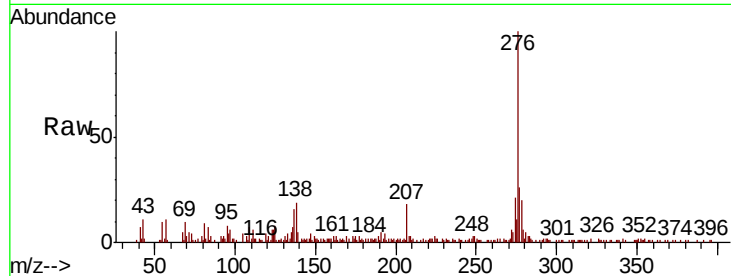
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.548 ng
RT: 17.05 min Scan# 2544
Delta R.T. 0.02 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleId :
K183-WC-01DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.4	19.5	29.3#
277	24.0	20.6	30.8

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM

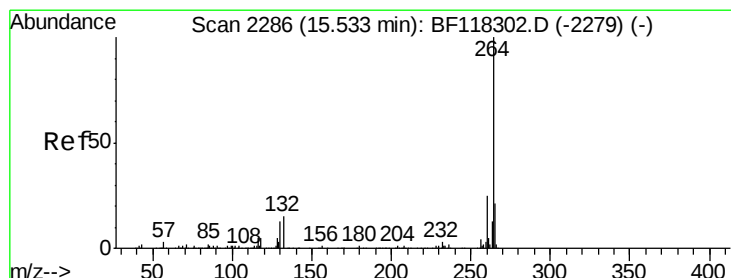
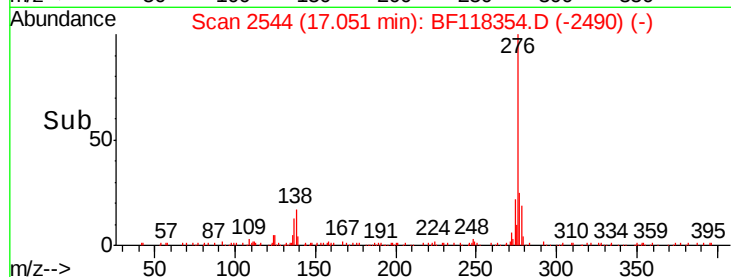
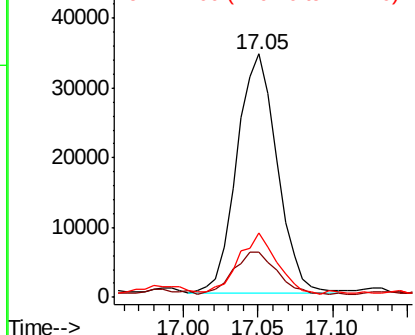


Abundance

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: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

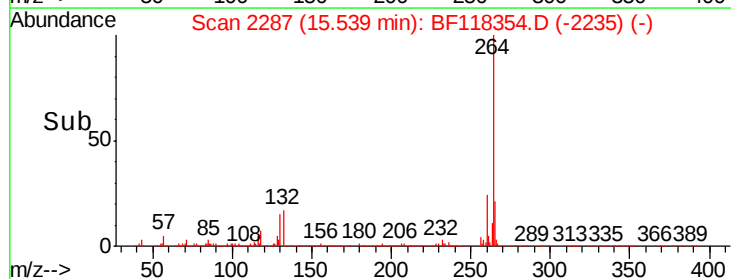
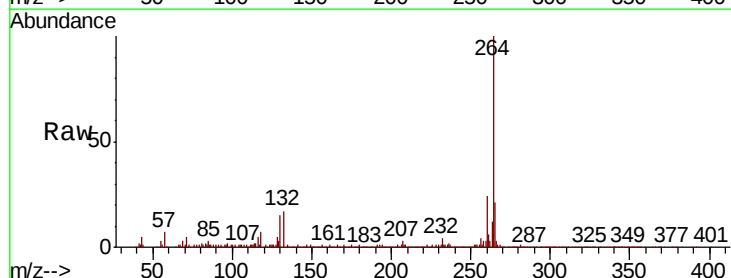
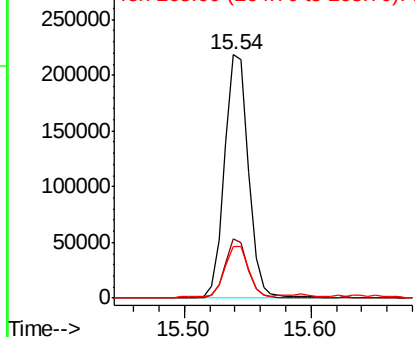
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.8	29.6
265	21.3	17.0	25.4

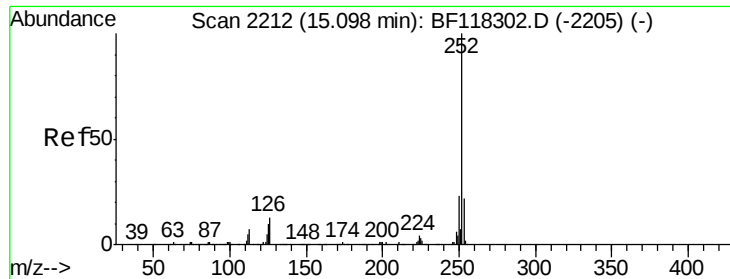
Abundance

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





#88

Benzo(b)fluoranthene

Concen: 9.641 ng m

RT: 15.10 min Scan# 2213

Delta R.T. 0.01 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Instrument :

BNA_F

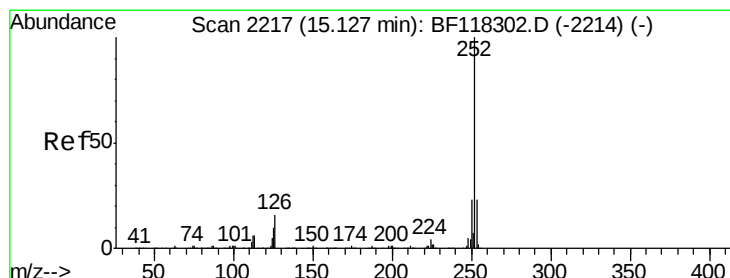
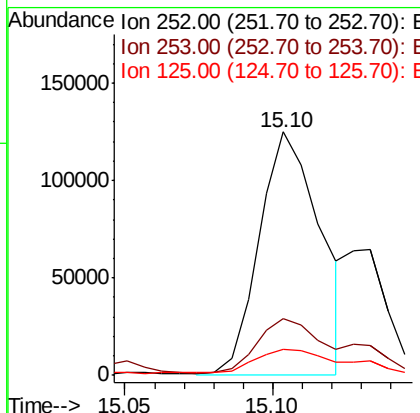
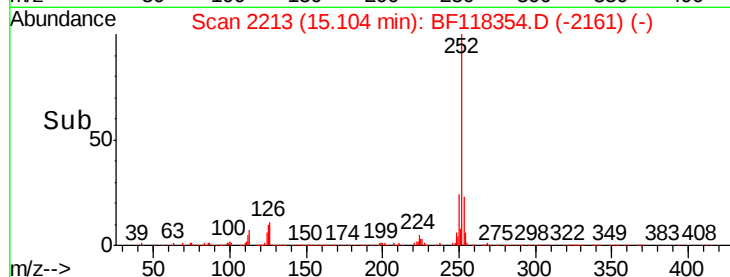
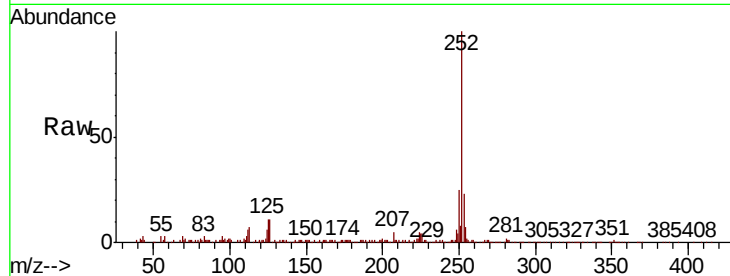
ClientSampleId :

K183-WC-01DL

Tot Ion:	252	Resp:	180840
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.5	26.3
125	10.9	7.7	11.5

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM



#89

Benzo(k)fluoranthene

Concen: 3.500 ng m

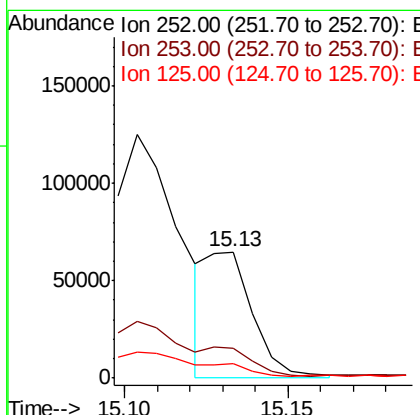
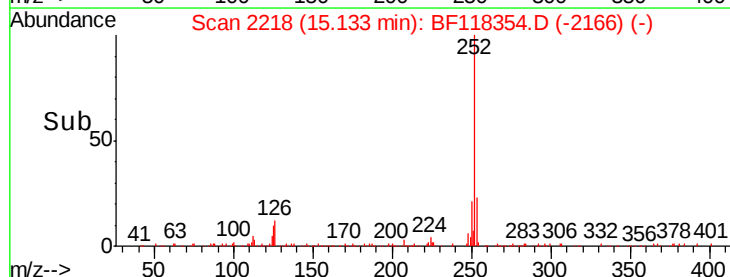
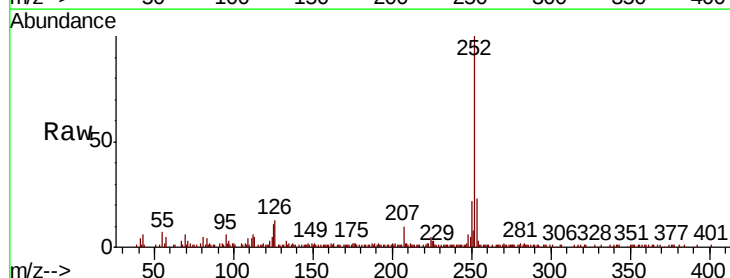
RT: 15.13 min Scan# 2218

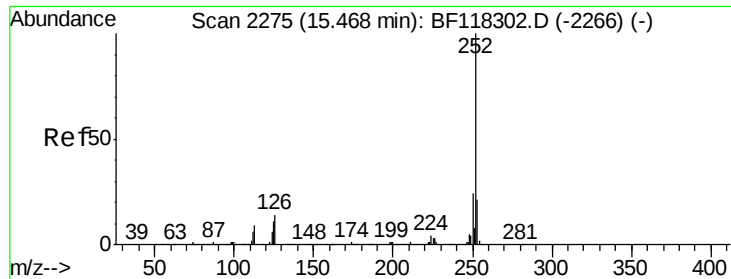
Delta R.T. 0.01 min

Lab File: BF118354.D

Acq: 27 Dec 2019 22:55

Tgt Ion:	252	Resp:	63043
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.0	27.0
125	11.4	8.0	12.0





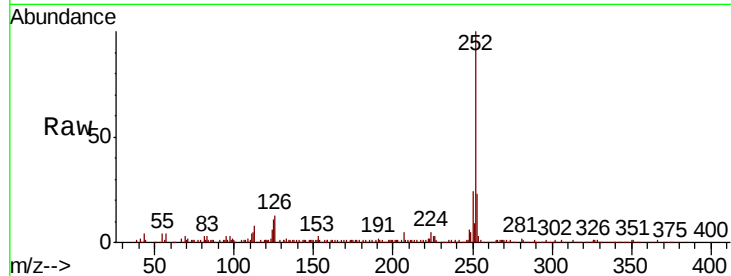
#90
Benzo(a)pyrene
Concen: 7.756 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Instrument :
BNA_F
ClientSampleID :
K183-WC-01DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	10.6	9.0	13.4

Manual Integrations
APPROVED

mohammad
12/30/2019 2:08:15 PM

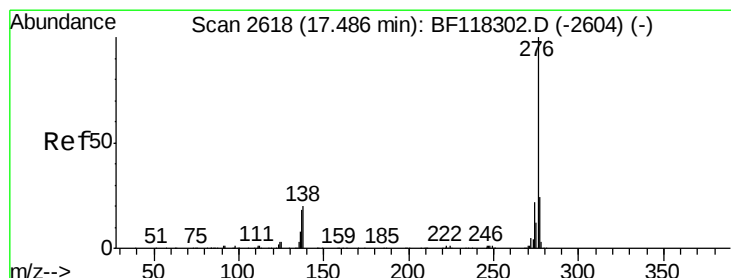
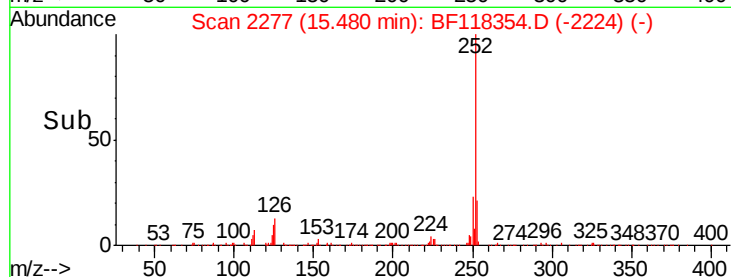
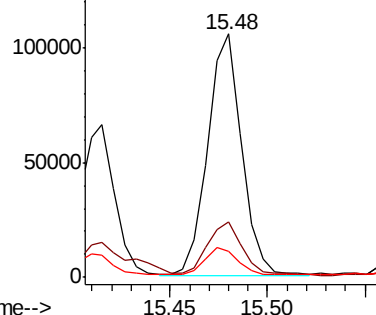


Abundance

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



#92
Benzo(g,h,i)perylene
Concen: 3.842 ng
RT: 17.51 min Scan# 2622
Delta R.T. 0.02 min
Lab File: BF118354.D
Acq: 27 Dec 2019 22:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.1	28.7
138	19.8	16.1	24.1

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

