

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
 Data File : BG041393.D
 Acq On : 22 Jun 2019 3:22
 Operator : HP/JU
 Sample : K3455-09
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-5-DUCT-BANK

Manual Integrations
 APPROVED

mohammad
 6/25/2019 3:20:24 PM

Quant Time: Jun 22 05:08:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 17 14:58:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	37160	20.00	ng	-0.03
21) Naphthalene-d8	10.87	136	143641	20.00	ng	-0.03
39) Acenaphthene-d10	14.69	164	107181	20.00	ng	-0.03
64) Phenanthrene-d10	17.44	188	263491	20.00	ng	-0.03
76) Chrysene-d12	21.71	240	261107	20.00	ng	-0.03
87) Perylene-d12	25.00	264	272989	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	197397	97.61	ng	-0.03
7) Phenol-d6	7.21	99	293409	100.09	ng	-0.02
23) Nitrobenzene-d5	9.23	82	202629	59.33	ng	-0.03
42) 2,4,6-Tribromophenol	16.18	330	147847	89.85	ng	-0.02
45) 2-Fluorobiphenyl	13.31	172	449705	57.03	ng	-0.03
79) Terphenyl-d14	20.03	244	722902	54.87	ng	-0.03
Target Compounds						
50) Dimethylphthalate	14.14	163	56340	5.908	ng	Qvalue 100
71) Phenanthrene	17.48	178	98727	7.025	ng	97
75) Fluoranthene	19.49	202	223975	11.997	ng	98
78) Pyrene	19.85	202	190634	10.826	ng	99
81) Benzo(a)anthracene	21.69	228	100224	5.669	ng	98
83) Chrysene	21.75	228	91859	5.403	ng	98
86) Indeno(1,2,3-cd)pyrene	28.78	276	56406	2.796	ng	# 93
88) Benzo(b)fluoranthene	23.95	252	110610	6.538	ng	93
89) Benzo(k)fluoranthene	24.01	252	40010m	2.387	ng	
90) Benzo(a)pyrene	24.84	252	79602	4.982	ng	99
92) Benzo(g,h,i)perylene	29.96	276	54450	3.425	ng	96

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

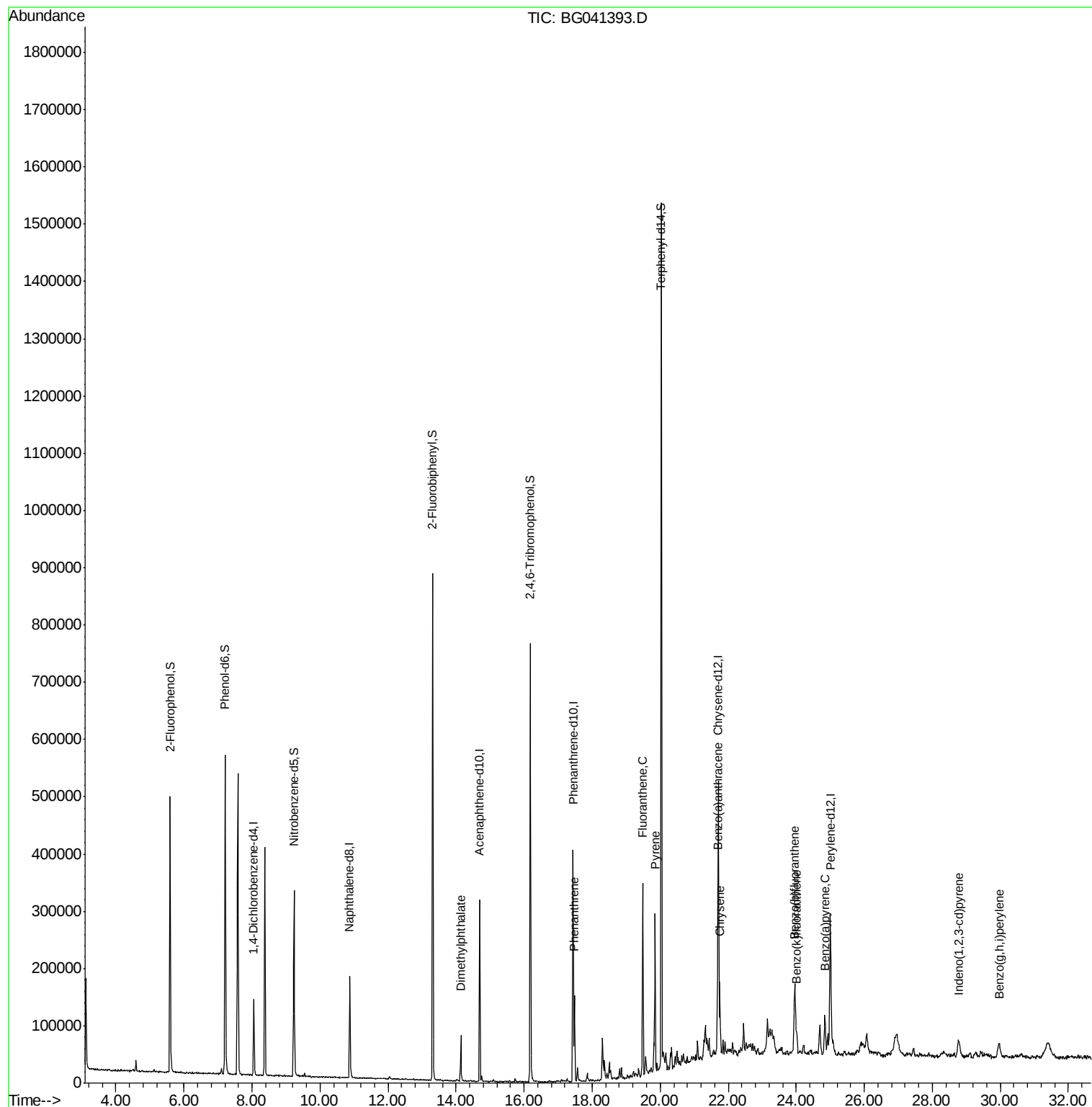
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041393.D
Acq On : 22 Jun 2019 3:22
Operator : HP/JU
Sample : K3455-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Manual Integrations
APPROVED

mohammad
6/25/2019 3:20:24 PM

Quant Time: Jun 22 05:08:44 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 17 14:58:02 2019
Response via : Initial Calibration





#1

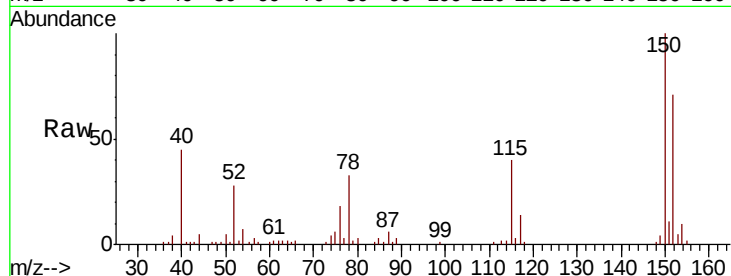
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.05 min Scan# 845
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
152	100		
150	141.2	120.6	181.0
115	56.1	47.9	71.9

Manual Integrations
APPROVED

mohammad
6/25/2019 3:20:24 PM

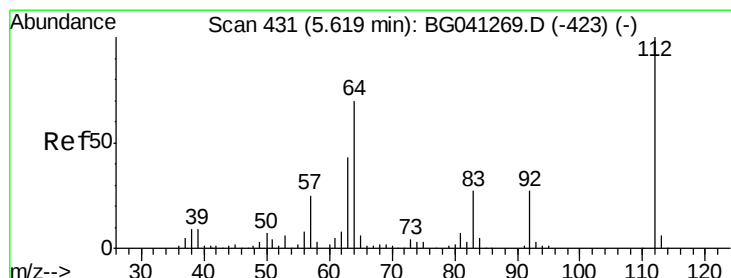
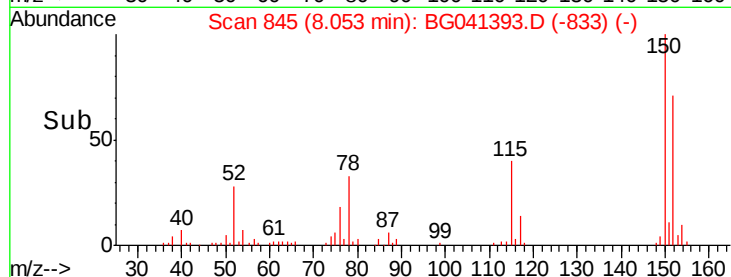
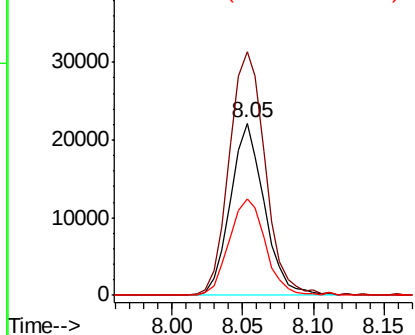


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

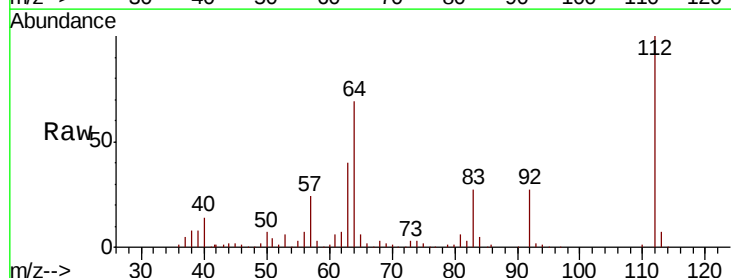
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 97.605 ng
RT: 5.59 min Scan# 426
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.2	55.9	83.9
63	40.4	34.6	51.8

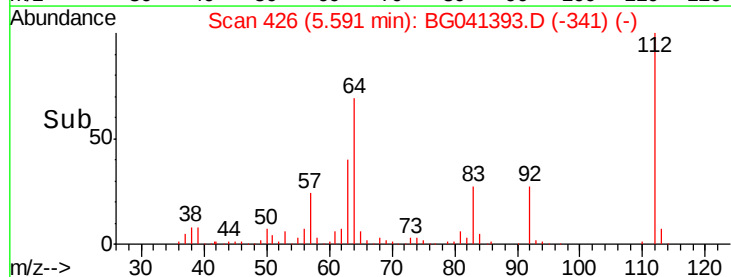
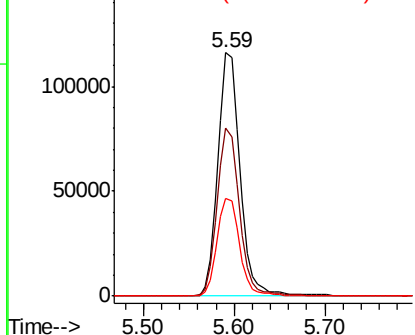


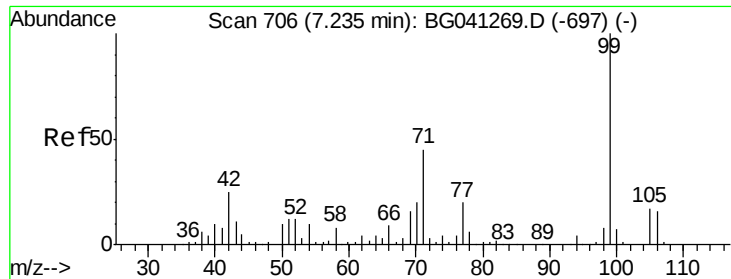
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 100.088 ng

RT: 7.21 min Scan# 702

Delta R.T. -0.02 min

Lab File: BG041393.D

Acq: 22 Jun 2019 3:22

Instrument :

BNA_G

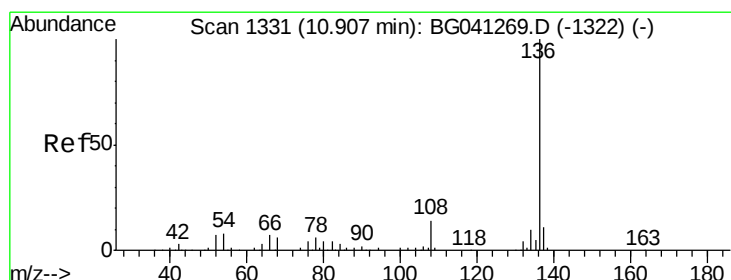
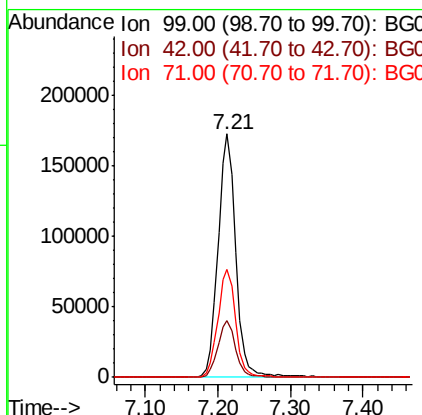
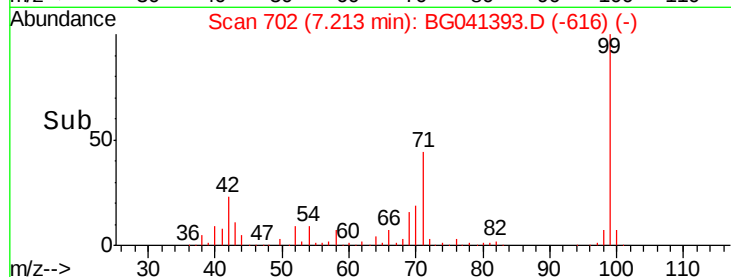
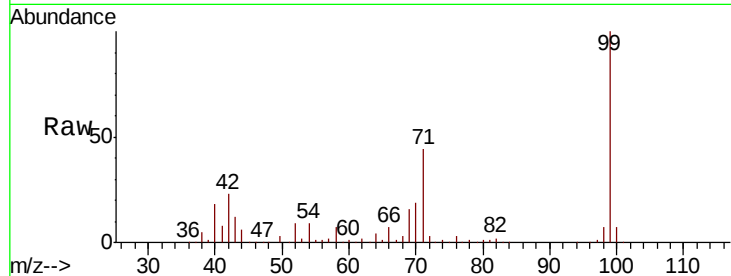
ClientSampleId :

TP-5-DUCT-BANK

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		293409		
42	23.2	19.9	29.9		
71	44.2	36.4	54.6		

Manual Integrations
APPROVED

mohammad
6/25/2019 3:20:24 PM



#21

Naphthalene-d8

Concen: 20.000 ng

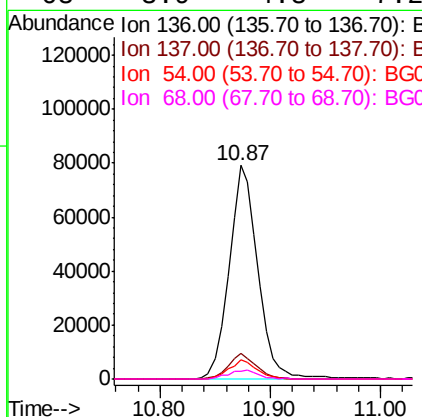
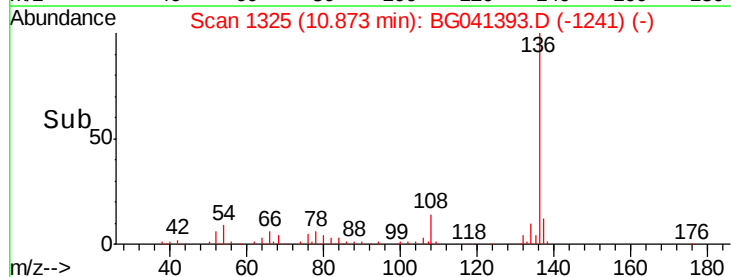
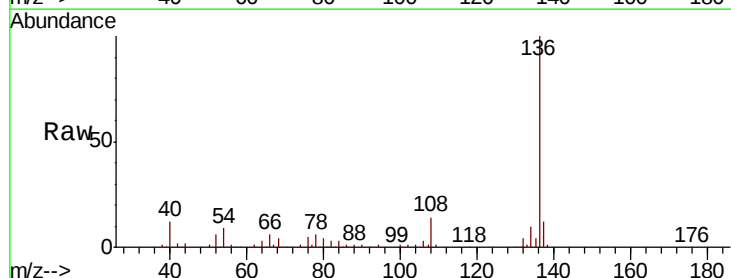
RT: 10.87 min Scan# 1325

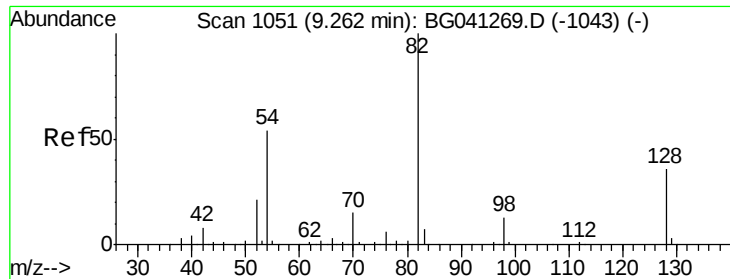
Delta R.T. -0.03 min

Lab File: BG041393.D

Acq: 22 Jun 2019 3:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		143641		
137	11.8	8.8	13.2		
54	8.7	6.4	9.6		
68	3.9	4.8	7.2#		





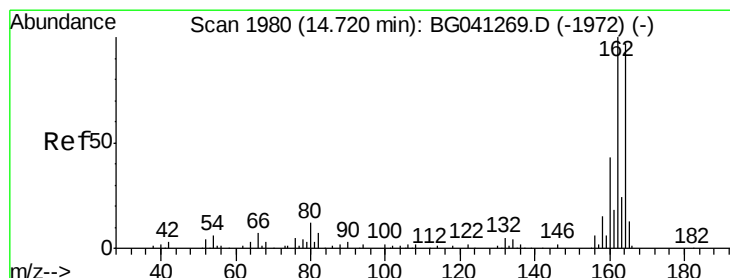
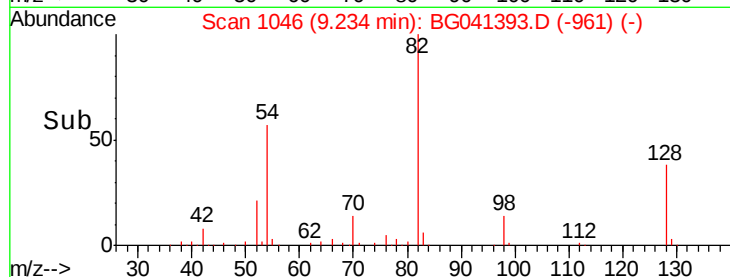
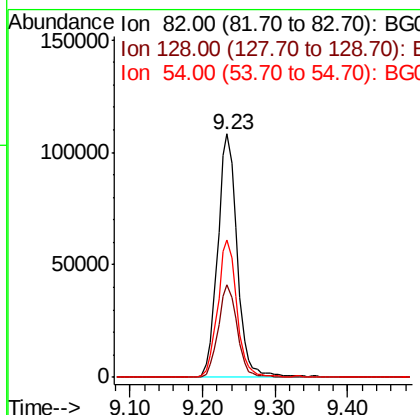
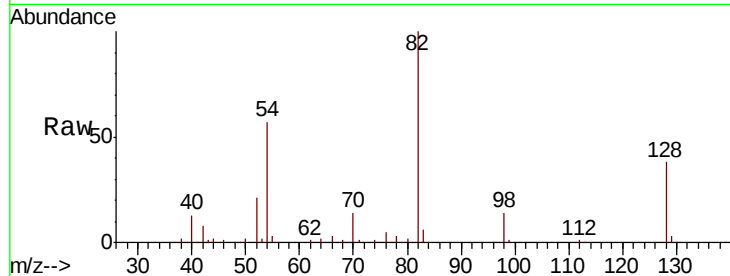
#23
Nitrobenzene-d5
Concen: 59.327 ng
RT: 9.23 min Scan# 1046
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Resp	Lower	Upper
82	100	202629		
128	38.1	29.2	43.8	
54	56.6	43.4	65.0	

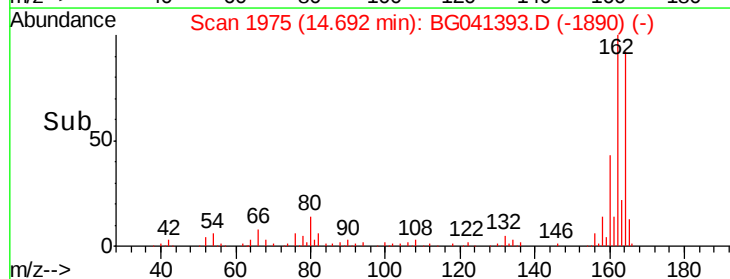
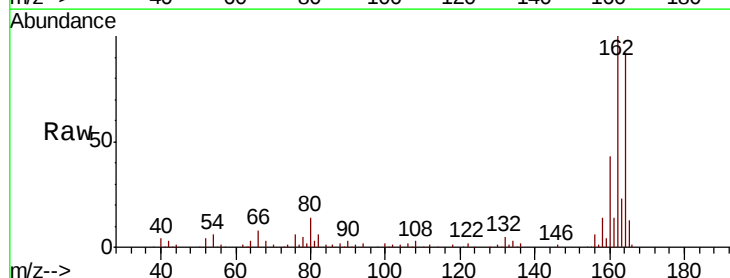
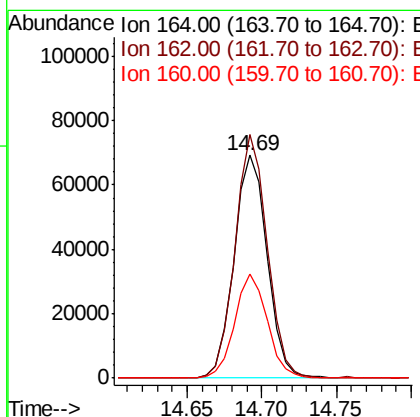
Manual Integrations
APPROVED

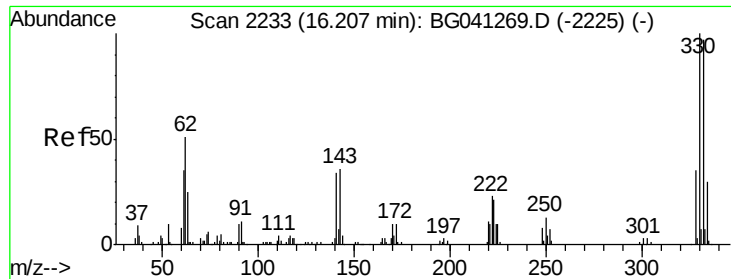
mohammad
6/25/2019 3:20:24 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.69 min Scan# 1975
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	107181		
162	109.2	82.8	124.2	
160	46.9	35.8	53.8	





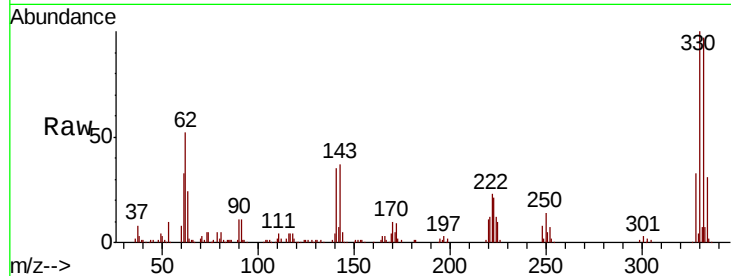
#42
 2,4,6-Tribromophenol
 Concen: 89.851 ng
 RT: 16.18 min Scan# 2229
 Delta R.T. -0.02 min
 Lab File: BG041393.D
 Acq: 22 Jun 2019 3:22

Instrument :
 BNA_G
 ClientSampleId :
 TP-5-DUCT-BANK

Tot Ion	Ratio	Resp	Lower	Upper
330	100	147847		
332	96.7	75.5	113.3	
141	36.4	29.0	43.4	

Manual Integrations
 APPROVED

mohammad
 6/25/2019 3:20:24 PM

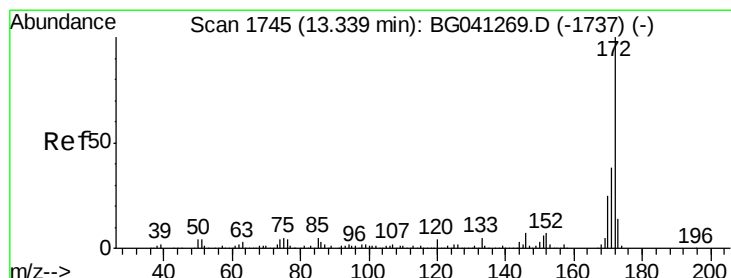
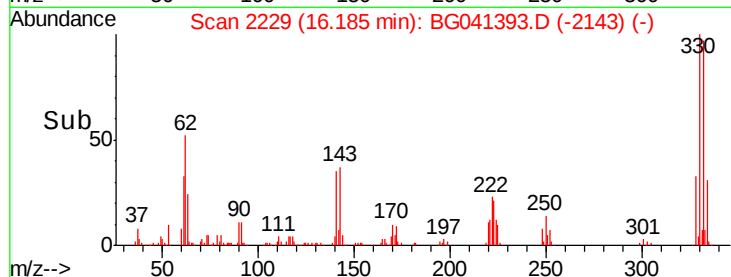
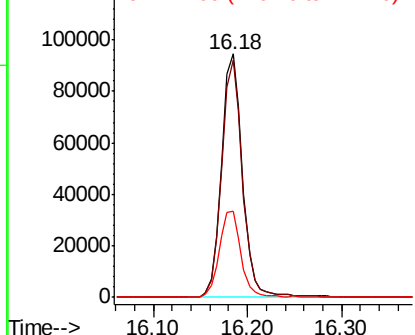


Abundance

Ion 329.80 (329.50 to 330.50): E

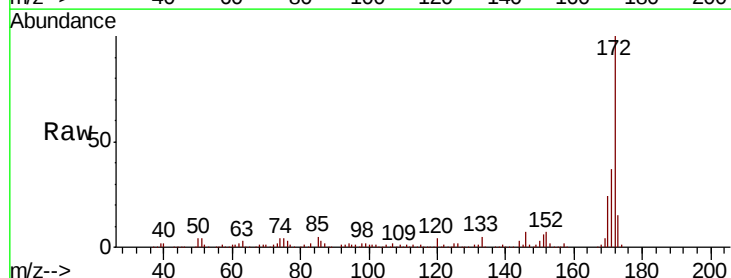
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 57.027 ng
 RT: 13.31 min Scan# 1740
 Delta R.T. -0.03 min
 Lab File: BG041393.D
 Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	449705		
171	36.7	30.0	45.0	
170	24.3	19.8	29.6	

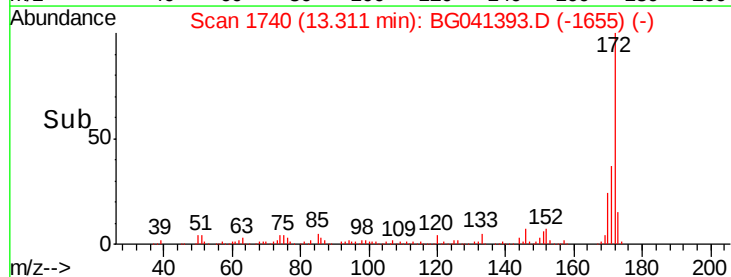
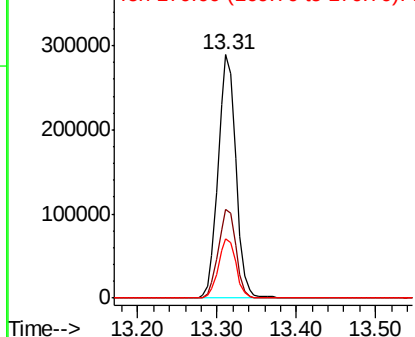


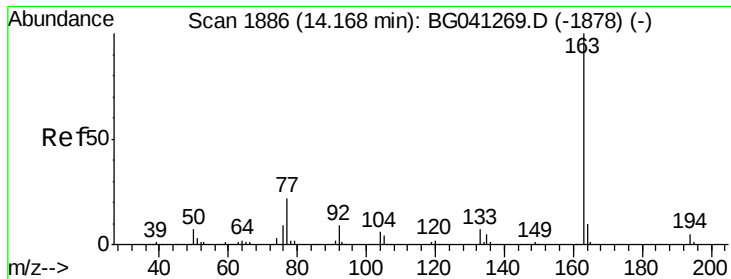
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





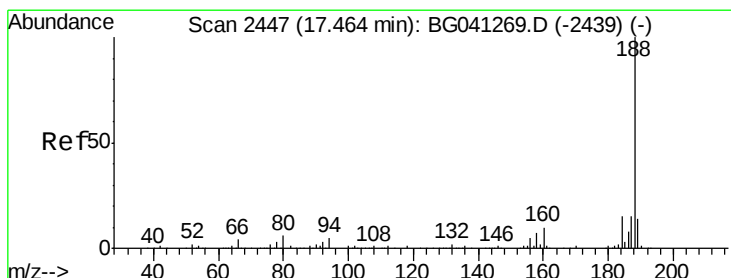
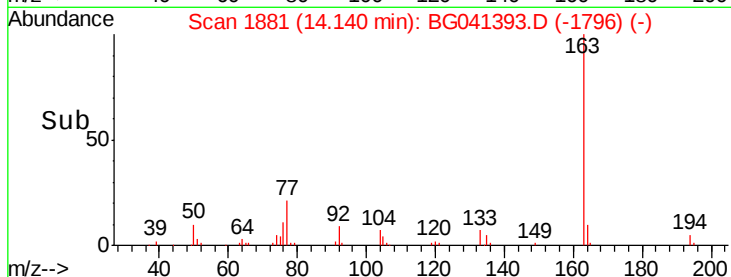
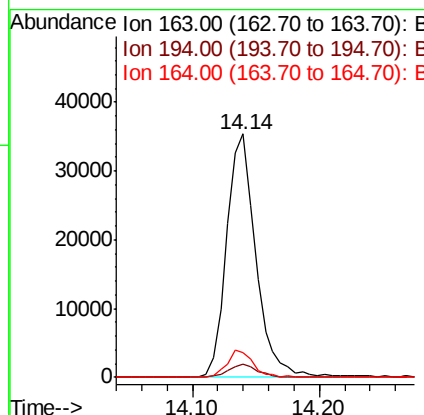
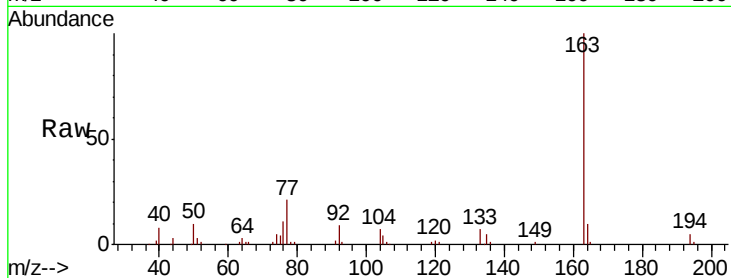
#50
Dimethylphthalate
Concen: 5.908 ng
RT: 14.14 min Scan# 1881
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
163	100		
194	5.2	3.9	5.9
164	10.3	8.3	12.5

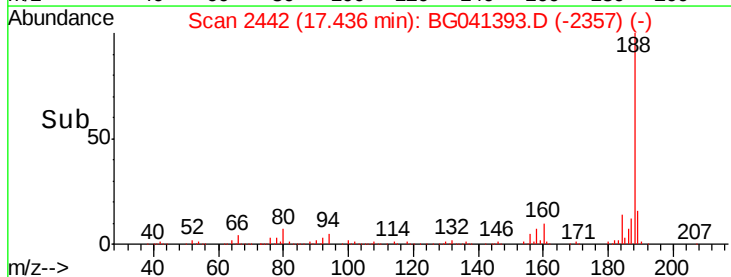
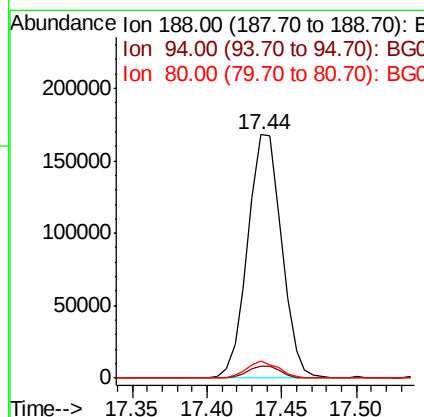
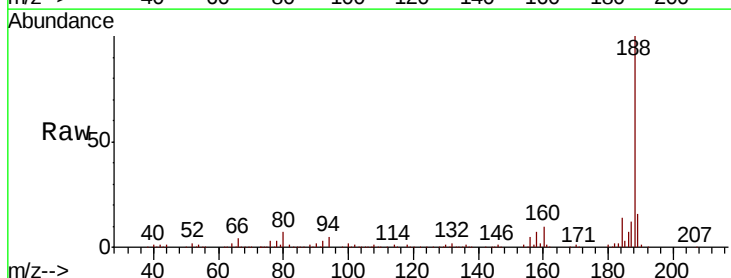
Manual Integrations
APPROVED

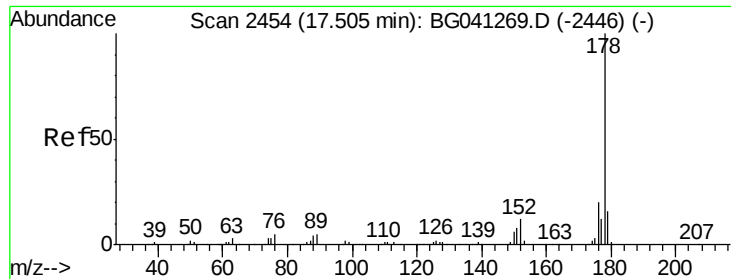
mohammad
6/25/2019 3:20:24 PM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.44 min Scan# 2442
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.1	3.6	5.4
80	6.7	4.8	7.2





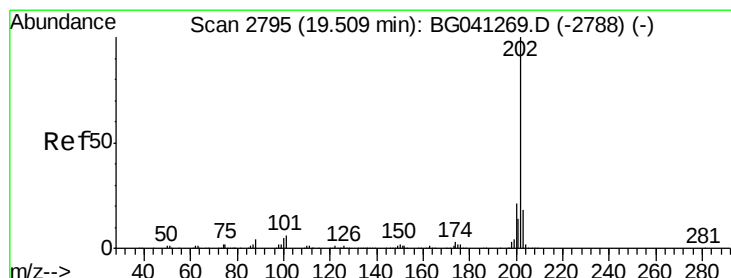
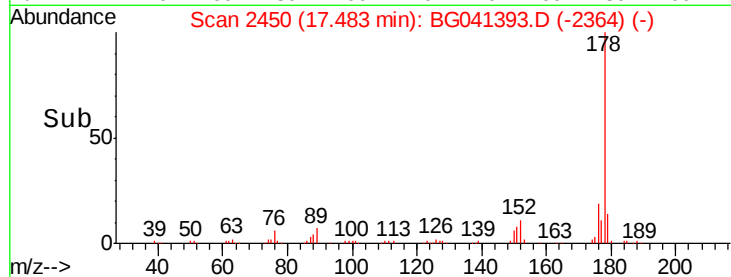
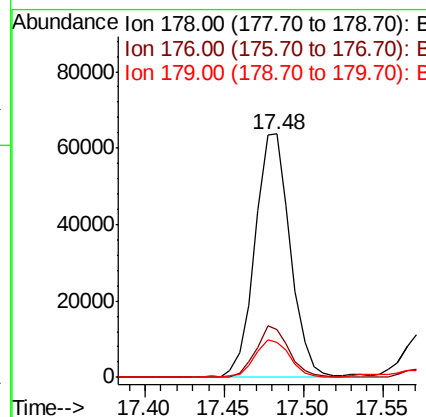
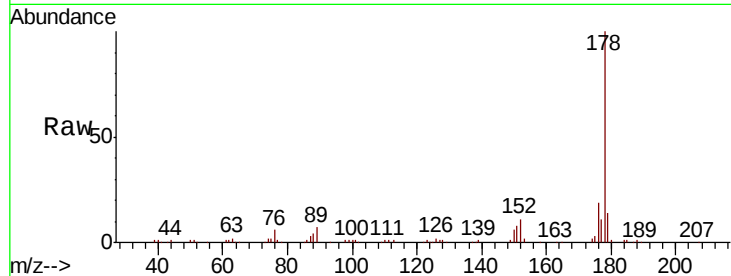
#71
Phenanthrene
Concen: 7.025 ng
RT: 17.48 min Scan# 2450
Delta R.T. -0.02 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.1	24.1
179	14.3	12.9	19.3

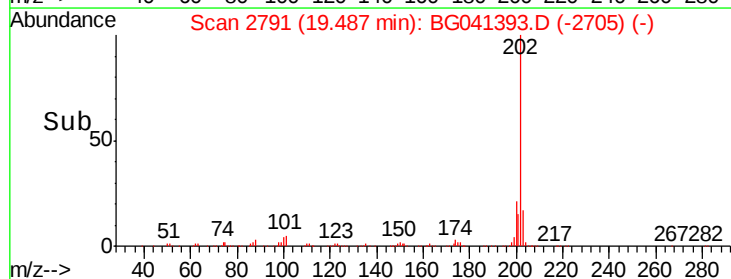
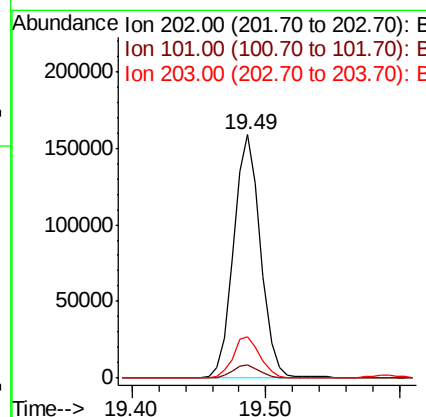
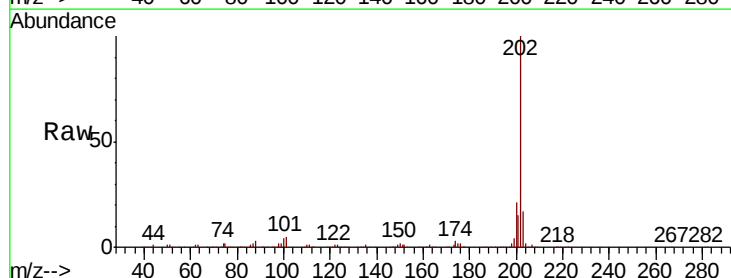
Manual Integrations
APPROVED

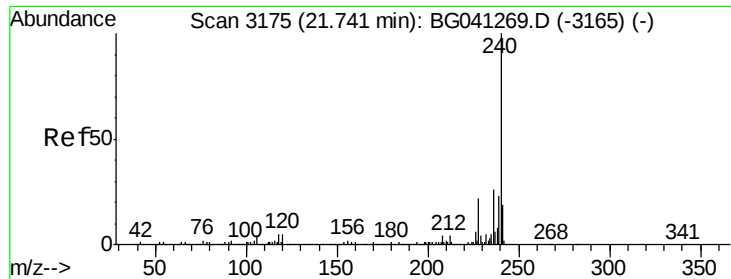
mohammad
6/25/2019 3:20:24 PM



#75
Fluoranthene
Concen: 11.997 ng
RT: 19.49 min Scan# 2791
Delta R.T. -0.02 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.2	0.0	26.0
203	17.1	0.0	37.7





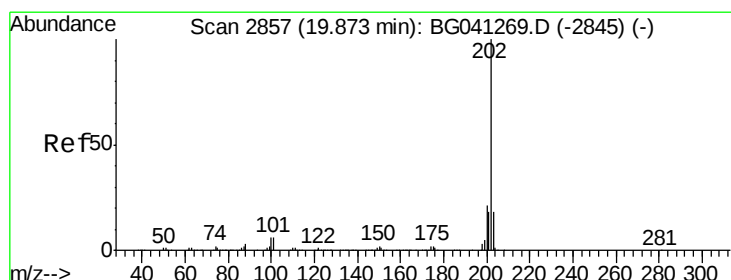
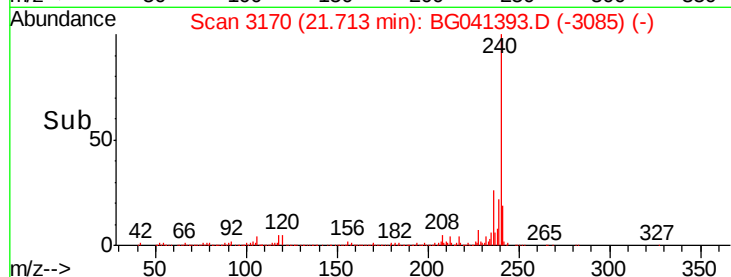
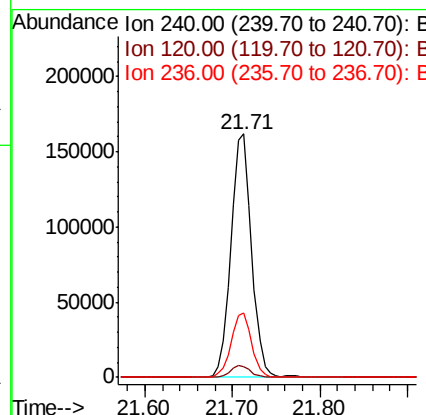
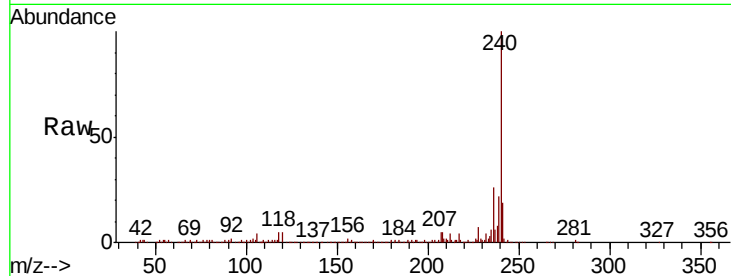
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.71 min Scan# 3170
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
240	100		
120	4.5	3.7	5.5
236	26.2	21.1	31.7

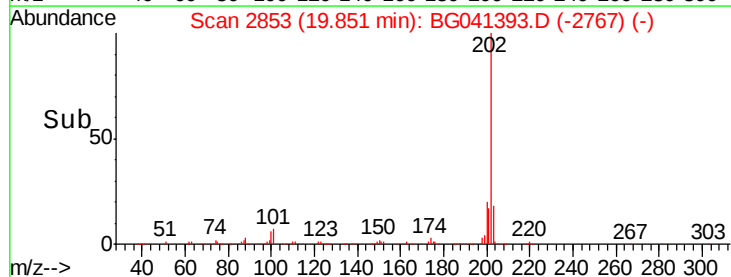
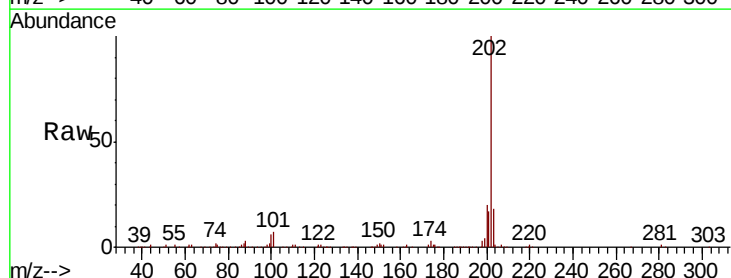
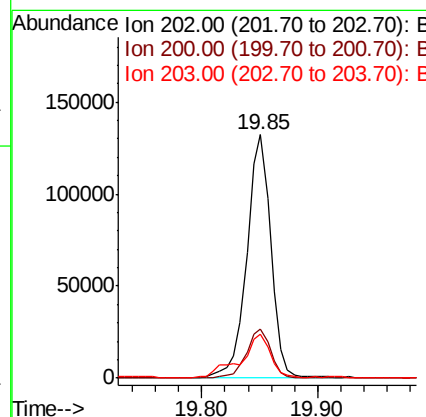
Manual Integrations
APPROVED

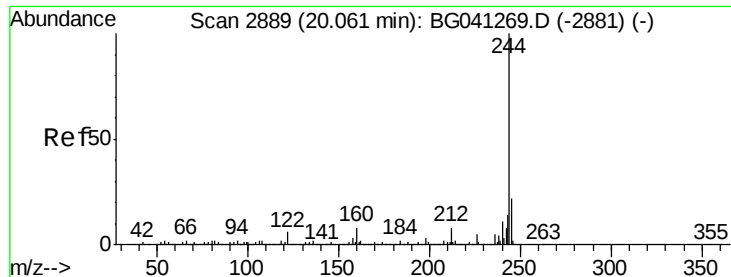
mohammad
6/25/2019 3:20:24 PM



#78
Pyrene
Concen: 10.826 ng
RT: 19.85 min Scan# 2853
Delta R.T. -0.02 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.8	25.2
203	18.1	14.6	21.8





#79

Terphenyl-d14

Concen: 54.868 ng

RT: 20.03 min Scan# 2884

Delta R.T. -0.03 min

Lab File: BG041393.D

Acq: 22 Jun 2019 3:22

Instrument :

BNA_G

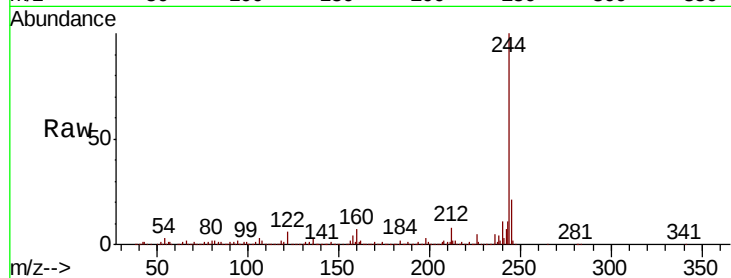
ClientSampleId :

TP-5-DUCT-BANK

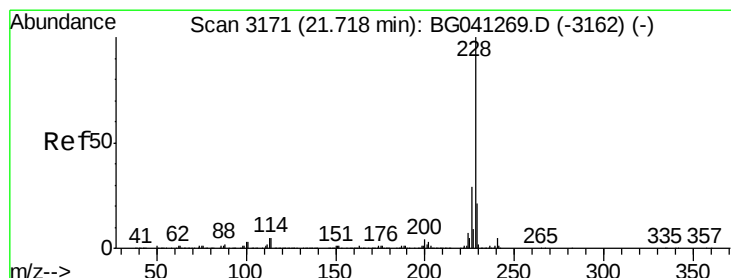
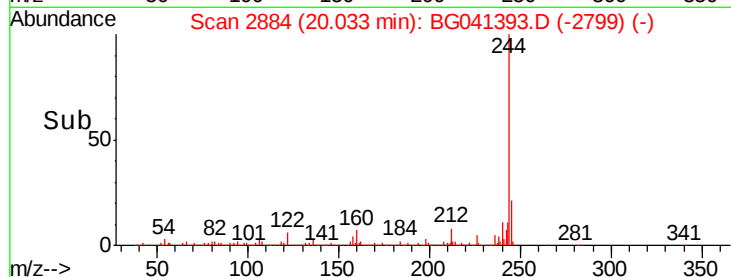
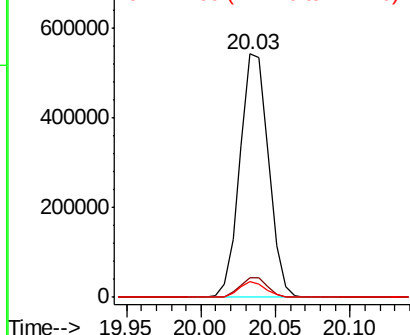
Tot Ion:	244	Resp:	722902
Ion Ratio	Lower	Upper	
244	100		
212	8.0	6.6	10.0
122	6.4	5.0	7.4

Manual Integrations
APPROVED

mohammad
6/25/2019 3:20:24 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 5.669 ng

RT: 21.69 min Scan# 3166

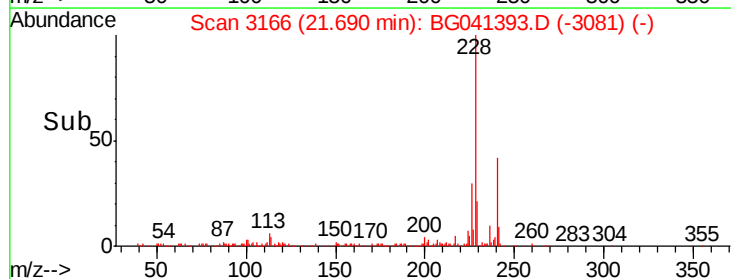
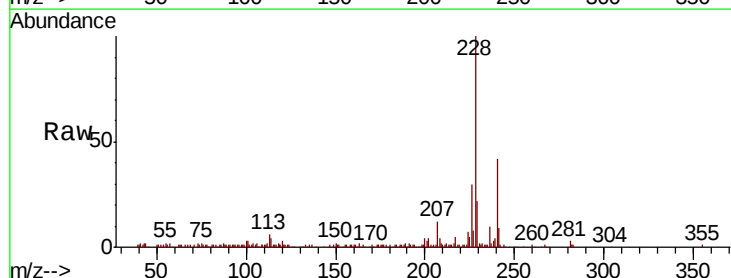
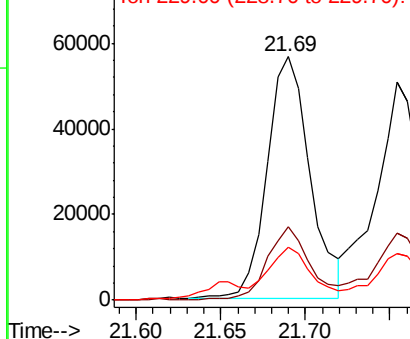
Delta R.T. -0.03 min

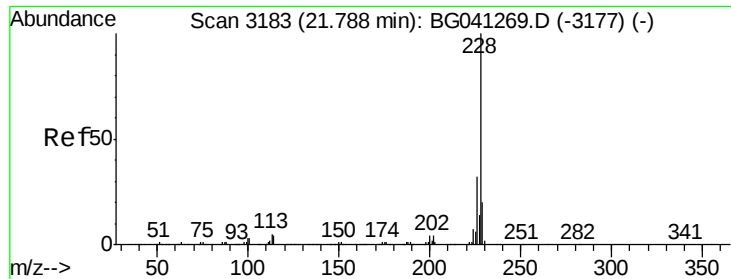
Lab File: BG041393.D

Acq: 22 Jun 2019 3:22

Tgt Ion:	228	Resp:	100224
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.2	34.8
229	21.8	16.8	25.2

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





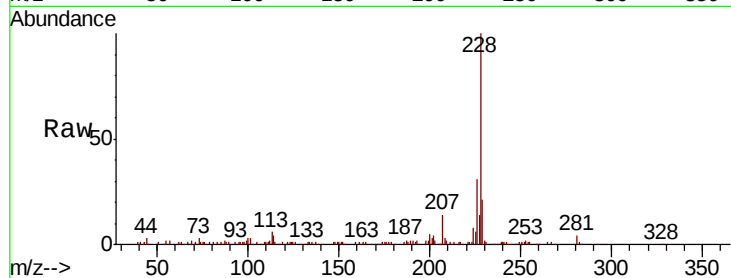
#83
Chrysene
Concen: 5.403 ng
RT: 21.75 min Scan# 3177
Delta R.T. -0.03 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.4	38.0
229	21.5	16.2	24.2

Manual Integrations
APPROVED

mohammad
6/25/2019 3:20:24 PM

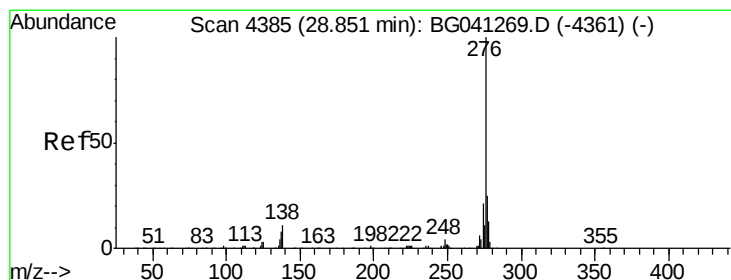
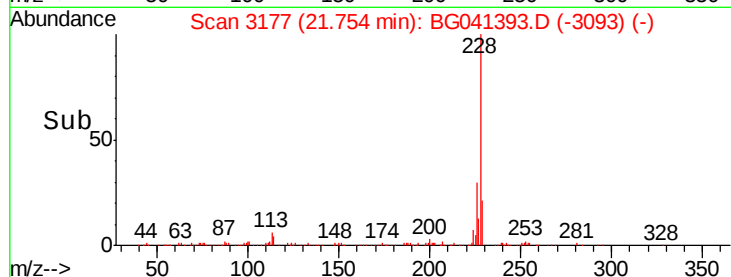
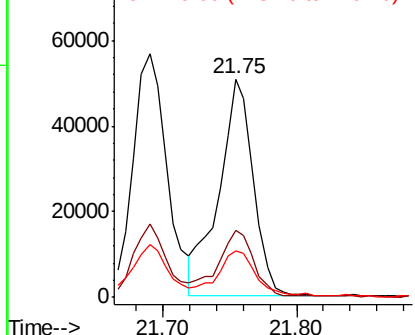


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.796 ng
RT: 28.78 min Scan# 4373
Delta R.T. -0.07 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

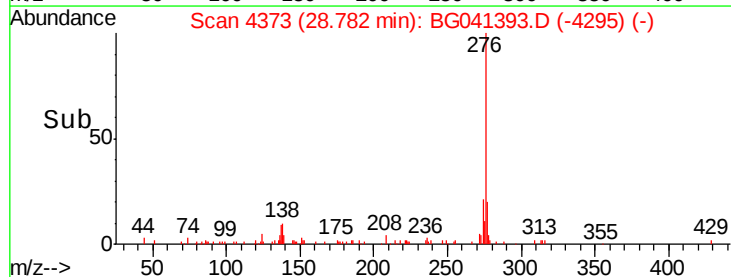
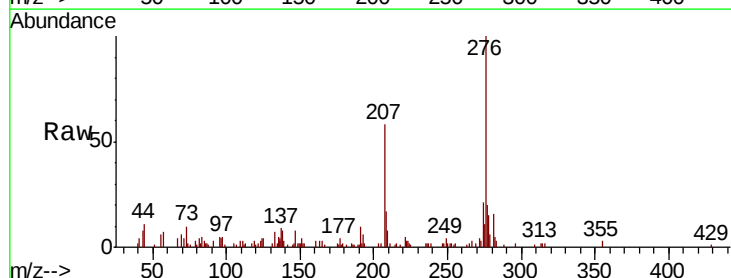
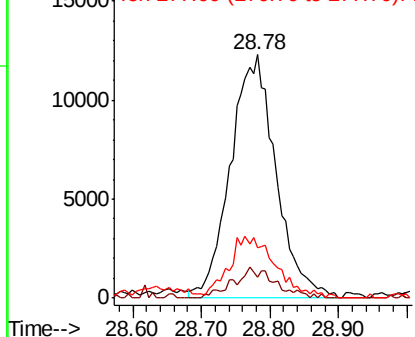
Tgt Ion	Ratio	Lower	Upper
276	100		
138	1.6	7.7	11.5#
277	26.2	20.6	31.0

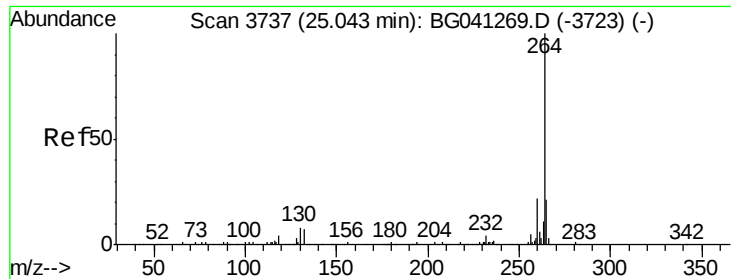
Abundance

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





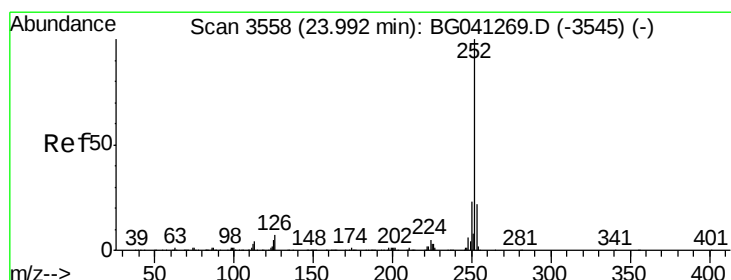
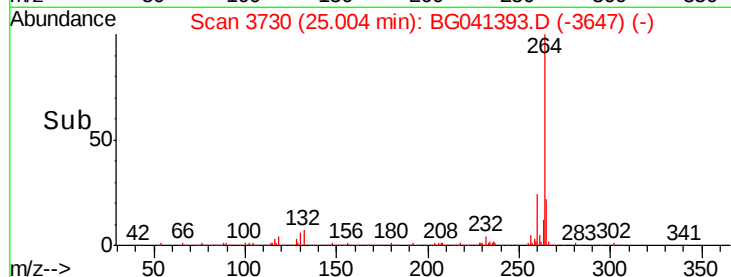
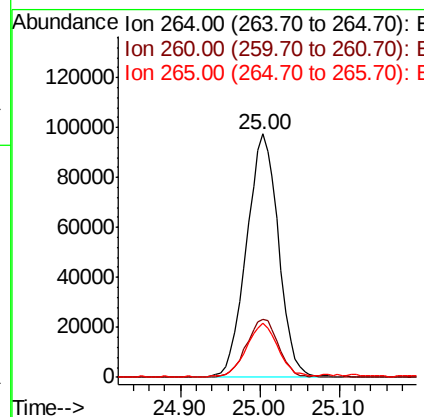
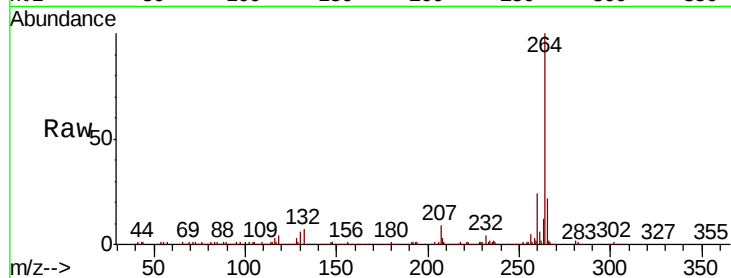
#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 25.00 min Scan# 3730
 Delta R.T. -0.04 min
 Lab File: BG041393.D
 Acq: 22 Jun 2019 3:22

Instrument :
 BNA_G
 ClientSampleId :
 TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	17.4	26.2
265	22.3	17.2	25.8

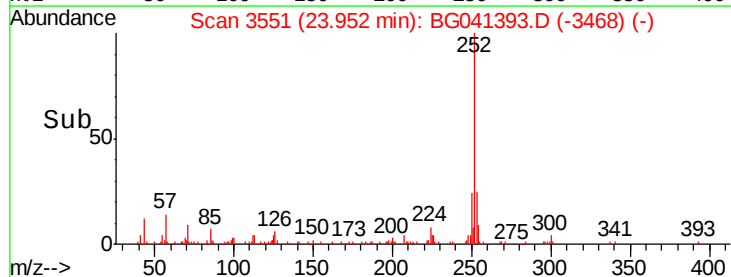
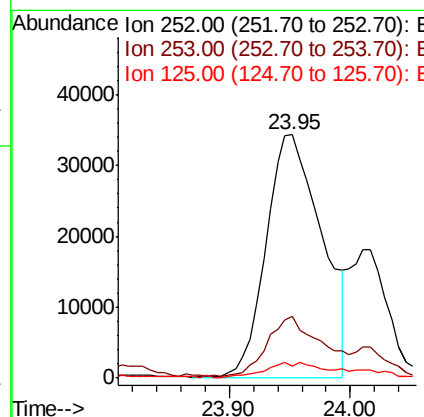
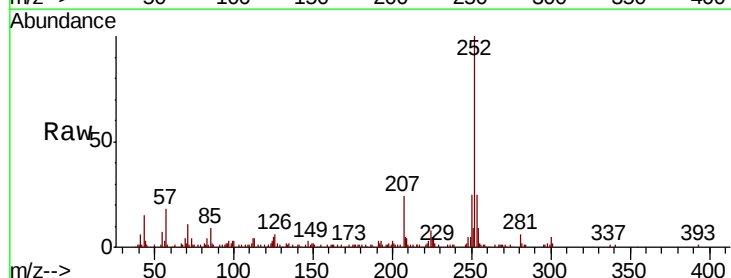
Manual Integrations
 APPROVED

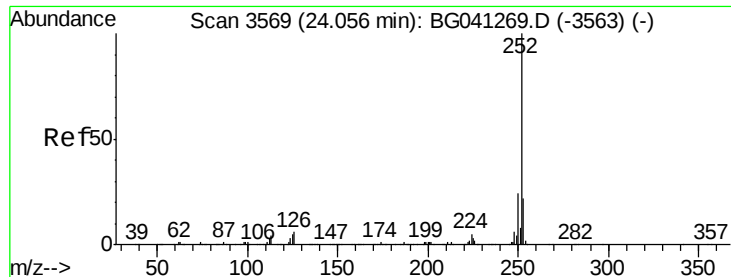
mohammad
 6/25/2019 3:20:24 PM



#88
 Benzo(b)fluoranthene
 Concen: 6.538 ng
 RT: 23.95 min Scan# 3551
 Delta R.T. -0.04 min
 Lab File: BG041393.D
 Acq: 22 Jun 2019 3:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.4	26.0
125	4.7	3.9	5.9





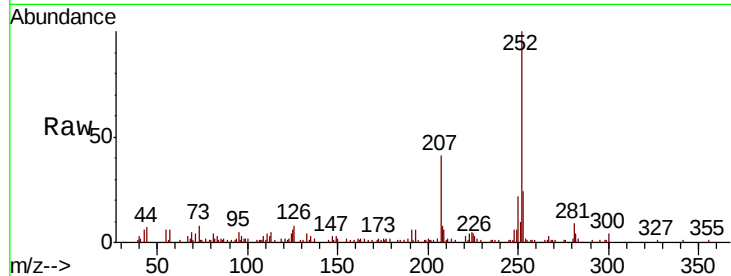
#89
Benzo(k)fluoranthene
Concen: 2.387 ng m
RT: 24.01 min Scan# 3561
Delta R.T. -0.05 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

Instrument :
BNA_G
ClientSampleId :
TP-5-DUCT-BANK

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.0	27.0
125	6.1	4.3	6.5

Manual Integrations
APPROVED

mohammad
6/25/2019 3:20:24 PM

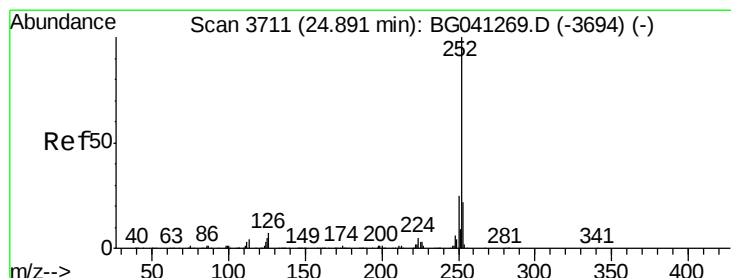
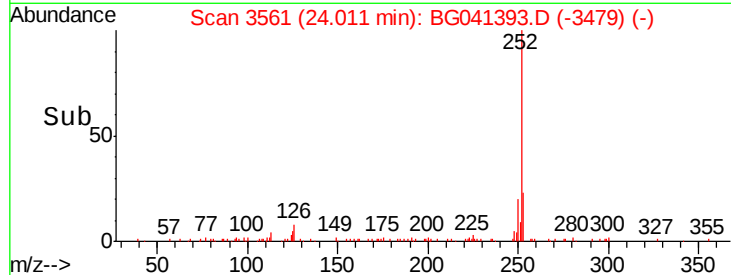
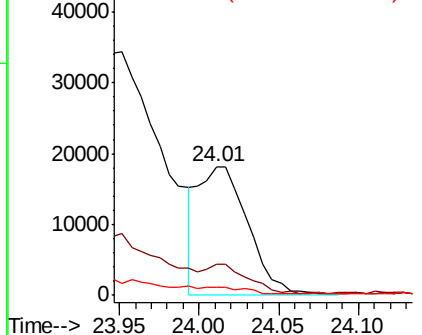


Abundance

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



#90
Benzo(a)pyrene
Concen: 4.982 ng
RT: 24.84 min Scan# 3702
Delta R.T. -0.05 min
Lab File: BG041393.D
Acq: 22 Jun 2019 3:22

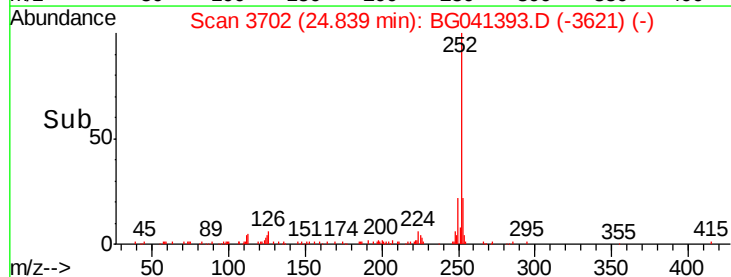
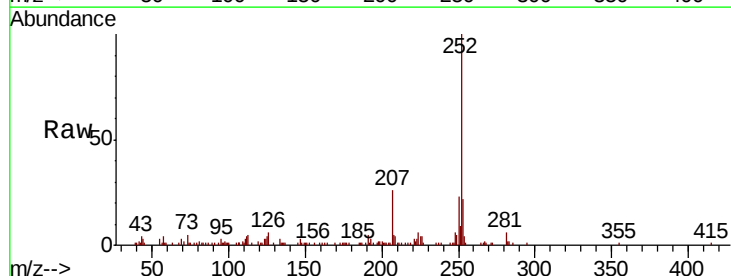
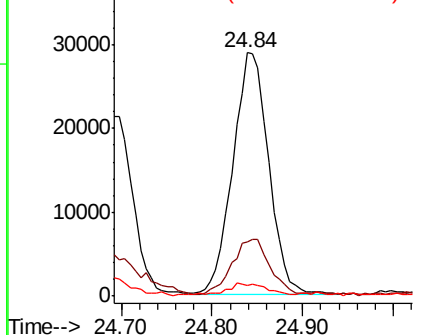
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	4.4	4.2	6.4

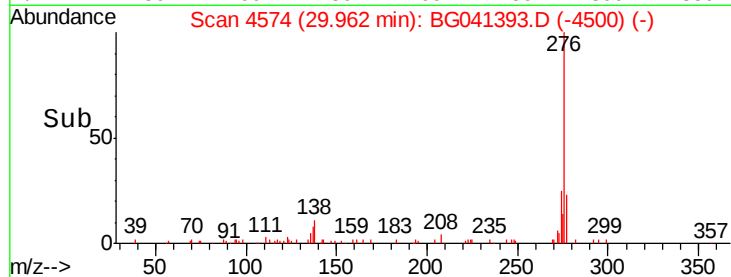
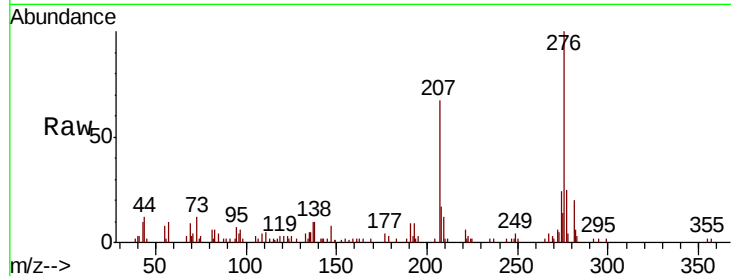
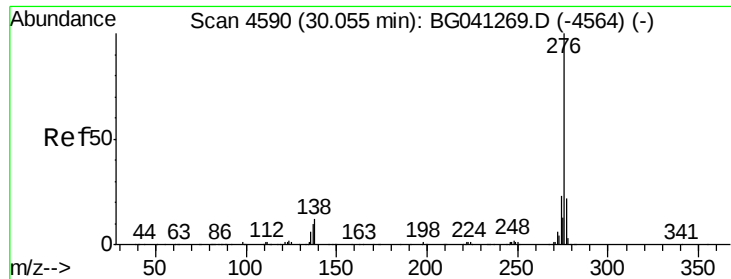
Abundance

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(a,h,i)perylene
 Concen: 3.425 ng
 RT: 29.96 min Scan# 4574
 Delta R.T. -0.09 min
 Lab File: BG041393.D
 Acq: 22 Jun 2019 3:22

Tot Ion:	276	Resp:	54450
Ion Ratio	Lower	Upper	
276	100		
277	24.7	17.9	26.9
138	10.5	9.4	14.0

Instrument :
 BNA_G
 ClientSampleId :
 TP-5-DUCT-BANK

Manual Integrations
 APPROVED

mohammad
 6/25/2019 3:20:24 PM

