

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100719\
 Data File : BN008054.D
 Acq On : 07 Oct 2019 17:39
 Operator : JU
 Sample : K5078-08DL 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW072-092619DL

Manual Integrations
 APPROVED

mohammad
 10/8/2019 12:23:19 PM

Quant Time: Oct 08 01:21:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 03 18:39:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	3242	0.40	ng	-0.03
7) Naphthalene-d8	10.44	136	13583	0.40	ng	-0.03
13) Acenaphthene-d10	14.29	164	8865	0.40	ng	-0.03
19) Phenanthrene-d10	17.04	188	19138	0.40	ng	-0.03
27) Chrysene-d12	21.25	240	25338	0.40	ng	-0.02
34) Perylene-d12	23.45	264	25507	0.40	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.29	112	1060	0.09	ng	-0.02
5) Phenol-d6	6.86	99	1414	0.10	ng	0.00
8) Nitrobenzene-d5	8.81	82	1195	0.10	ng	-0.03
11) 2-Methylnaphthalene-d10	12.03	152	2565	0.11	ng	-0.03
14) 2,4,6-Tribromophenol	15.80	330	518	0.11	ng	-0.02
15) 2-Fluorobiphenyl	12.92	172	3583	0.10	ng	-0.02
25) Fluoranthene-d10	19.08	212	7281	0.11	ng	-0.02
29) Terphenyl-d14	19.68	244	7690	0.12	ng	-0.03
Target Compounds						
9) Naphthalene	10.48	128	1704	0.045	ng	# 78
12) 2-Methylnaphthalene	12.10	142	1452	0.056	ng	# 89
16) Acenaphthylene	14.01	152	14286	0.304	ng	99
17) Acenaphthene	14.36	154	8712	0.287	ng	98
18) Fluorene	15.35	166	12147	0.313	ng	97
23) Phenanthrene	17.08	178	260729	4.373	ng	100
24) Anthracene	17.18	178	35289	0.655	ng	98
26) Fluoranthene	19.11	202	406314	5.481	ng	100
28) Pyrene	19.48	202	337860	3.910	ng	96
30) Benzo(a)anthracene	21.23	228	149740	1.605	ng	99
31) Chrysene	21.28	228	159232	1.751	ng	98
32) Bis(2-ethylhexyl)phthalate	21.17	149	22558m	0.470	ng	
33) Indeno(1,2,3-cd)pyrene	25.66	276	108052	0.949	ng	# 95
35) Benzo(b)fluoranthene	22.80	252	207367	2.342	ng	97
36) Benzo(k)fluoranthene	22.83	252	84944m	0.970	ng	
37) Benzo(a)pyrene	23.36	252	136306	1.638	ng	98
38) Dibenzo(a,h)anthracene	25.66	278	25586	0.300	ng	# 81
39) Benzo(a,h,i)perylene	26.33	276	107173	1.272	ng	99

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

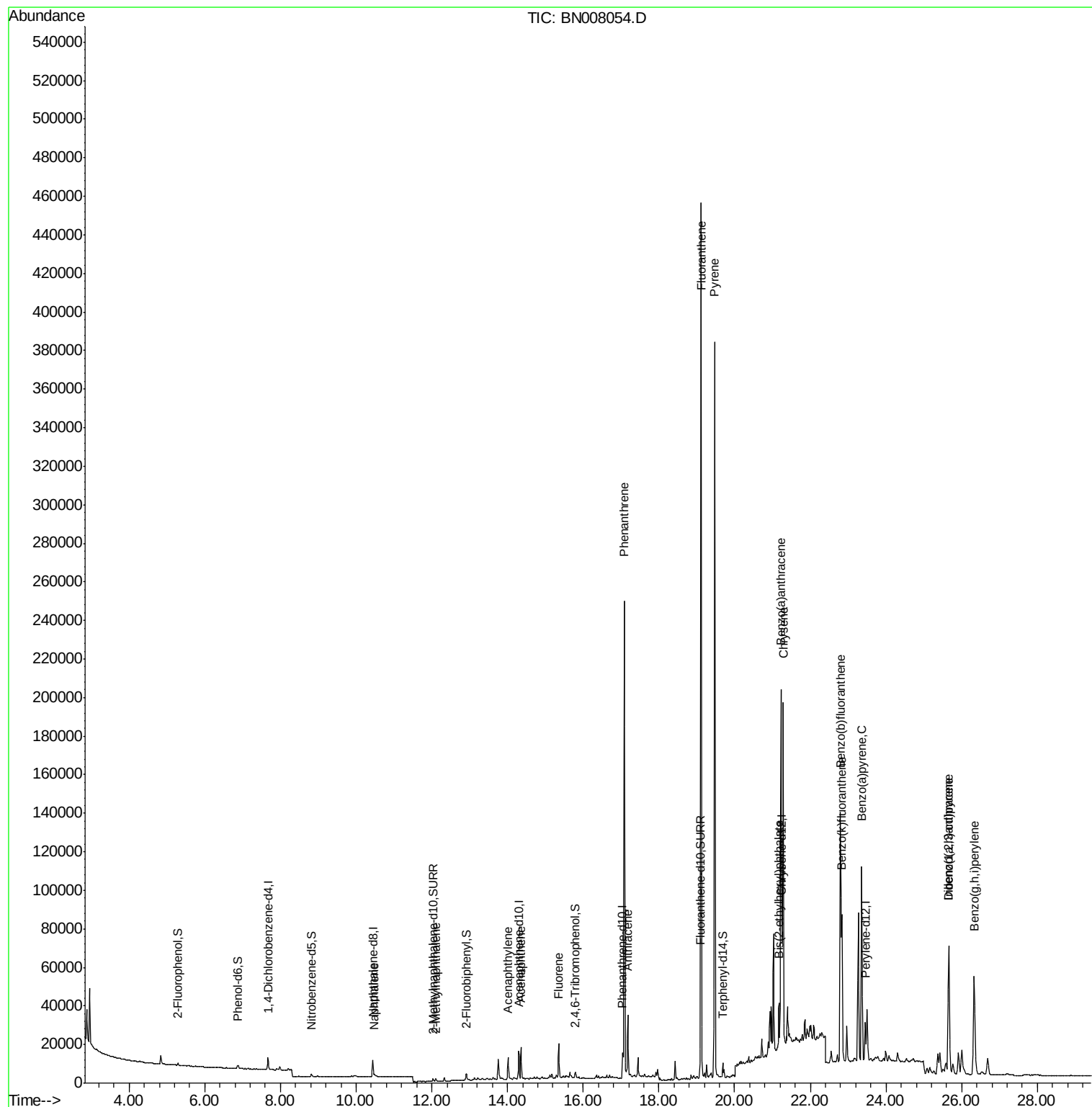
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100719\
Data File : BN008054.D
Acq On : 07 Oct 2019 17:39
Operator : JU
Sample : K5078-08DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

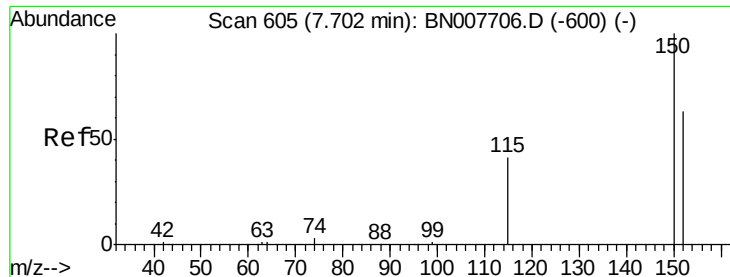
Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM

Quant Time: Oct 08 01:21:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 03 18:39:49 2019
Response via : Initial Calibration





#1

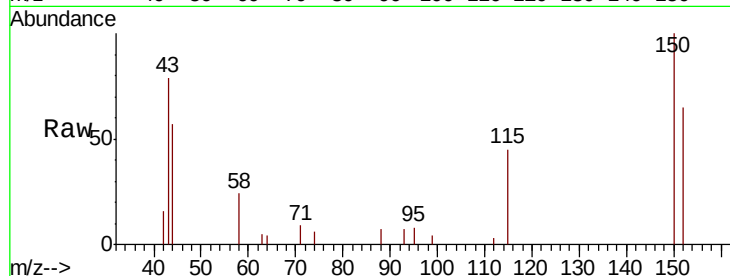
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.67 min Scan# 601
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	125.6	188.4
115	68.3	53.3	79.9

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM

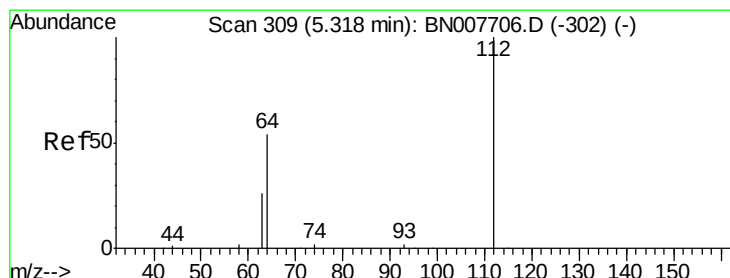
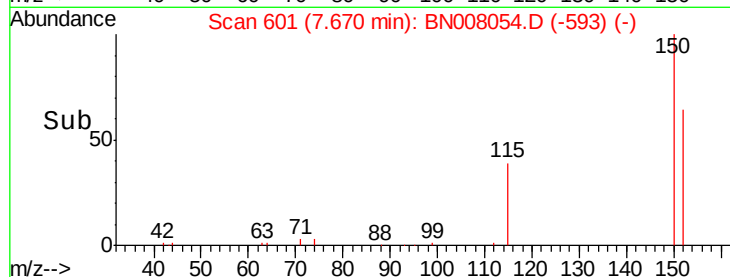
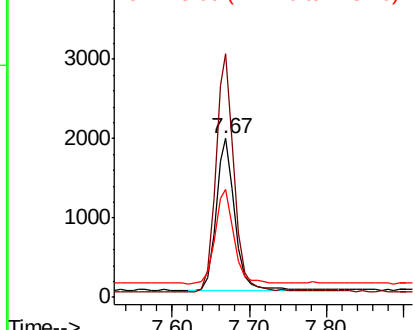


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

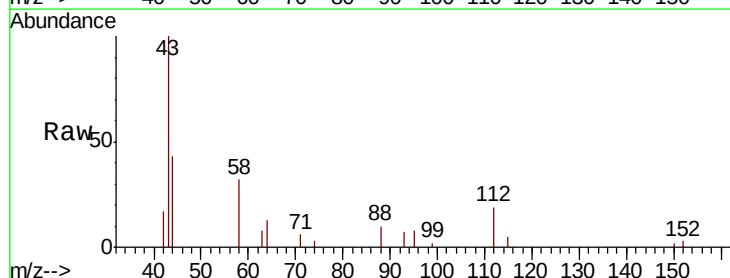
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.095 ng
RT: 5.29 min Scan# 306
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	46.6	70.0
63	32.0	23.1	34.7

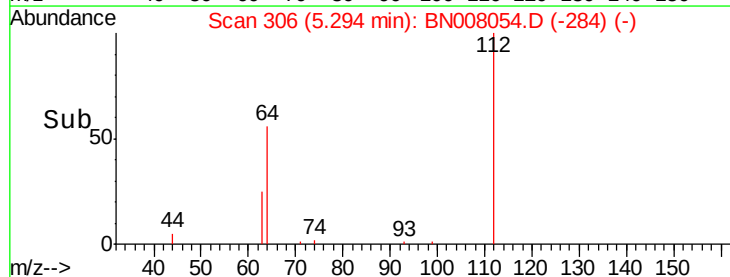
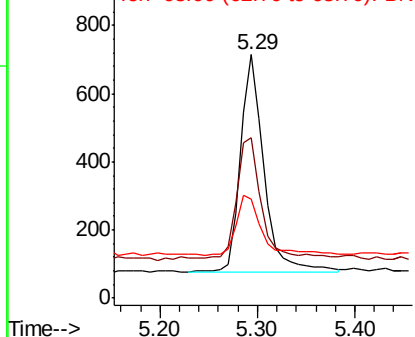


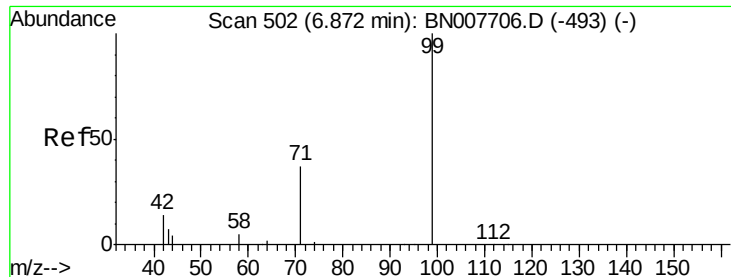
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.097 ng

RT: 6.86 min Scan# 501

Delta R.T. -0.01 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

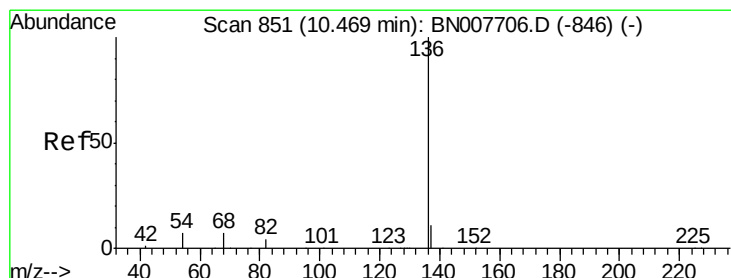
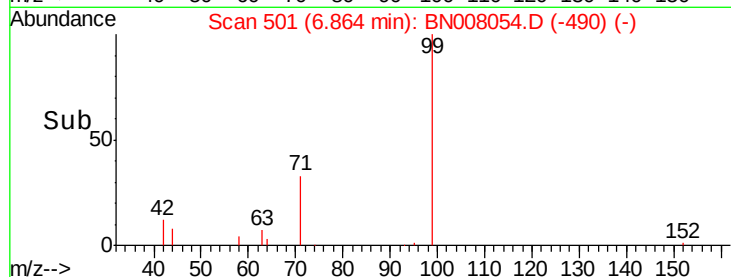
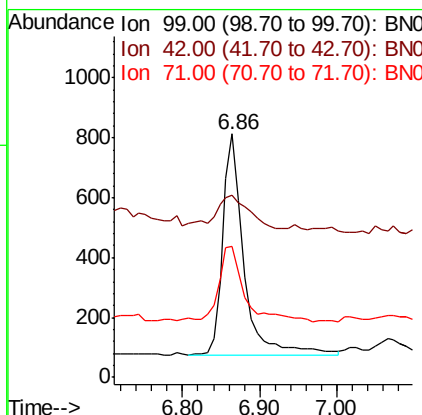
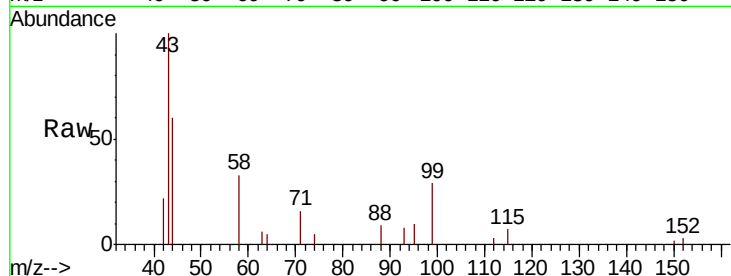
ClientSampleId :

EXT-024-SW072-092619DL

Tot Ion:	99	Resp:	1414
Ion	Ratio	Lower	Upper
99	100		
42	22.7	12.8	19.2#
71	42.6	27.6	41.4#

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM



#7

Naphthalene-d8

Concen: 0.400 ng

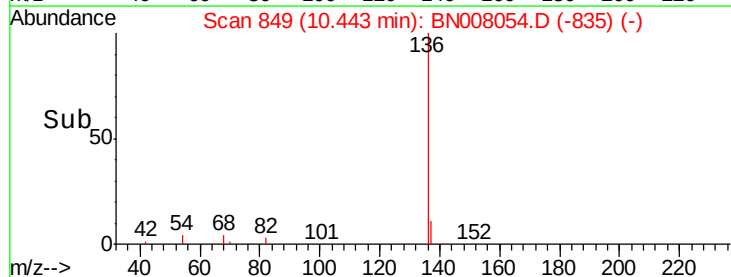
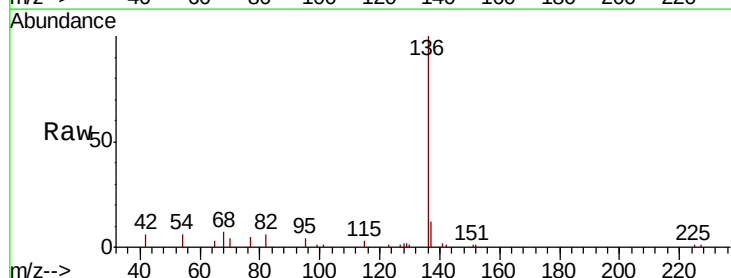
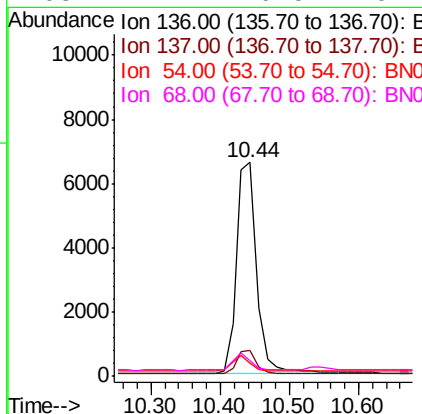
RT: 10.44 min Scan# 849

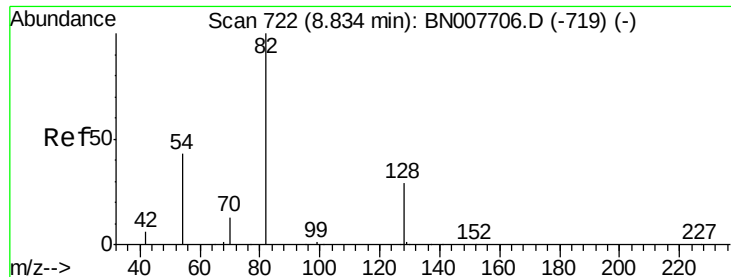
Delta R.T. -0.03 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Tgt Ion:	136	Resp:	13583
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.2	13.8
54	6.0	5.8	8.8
68	7.1	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.101 ng

RT: 8.81 min Scan# 720

Delta R.T. -0.03 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

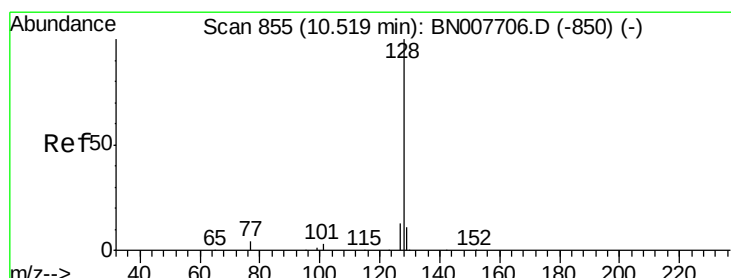
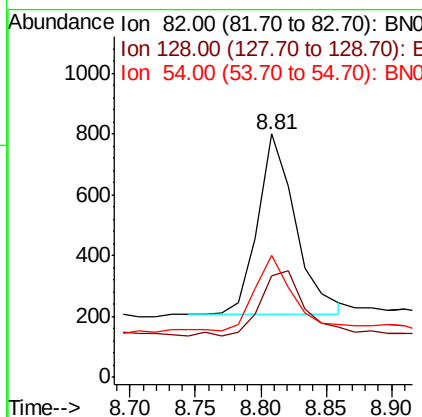
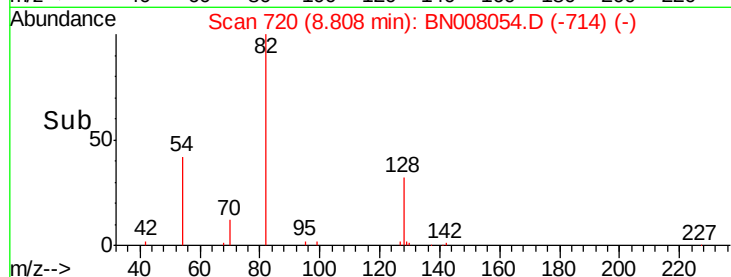
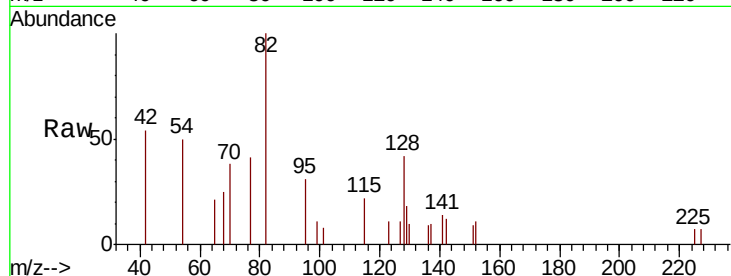
ClientSampleId :

EXT-024-SW072-092619DL

Tot Ion:	82	Resp:	1195
Ion Ratio	Lower	Upper	
82	100		
128	41.6	24.5	36.7#
54	50.4	35.2	52.8

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM



#9

Naphthalene

Concen: 0.045 ng

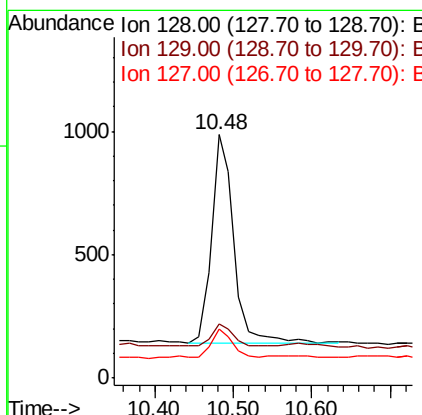
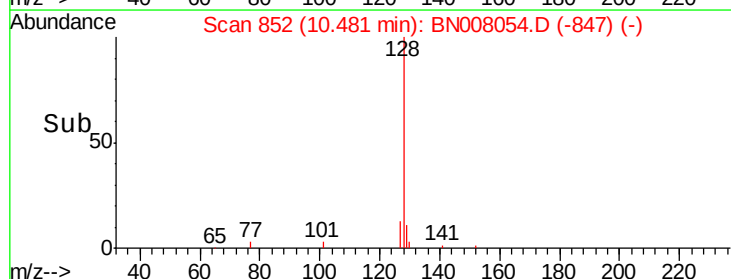
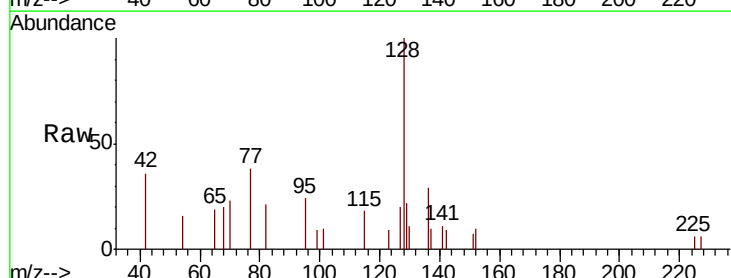
RT: 10.48 min Scan# 852

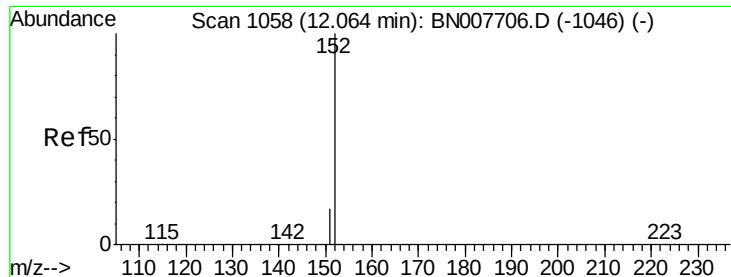
Delta R.T. -0.04 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Tgt Ion:	128	Resp:	1704
Ion Ratio	Lower	Upper	
128	100		
129	22.2	9.1	13.7#
127	20.0	10.6	15.8#





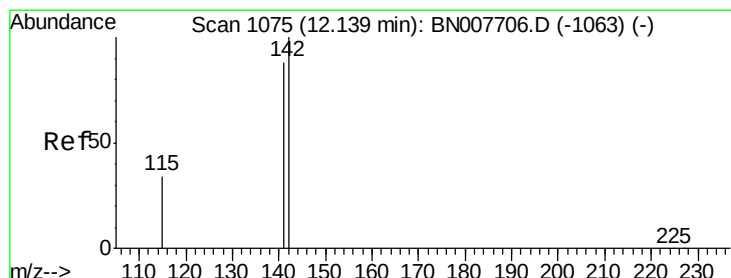
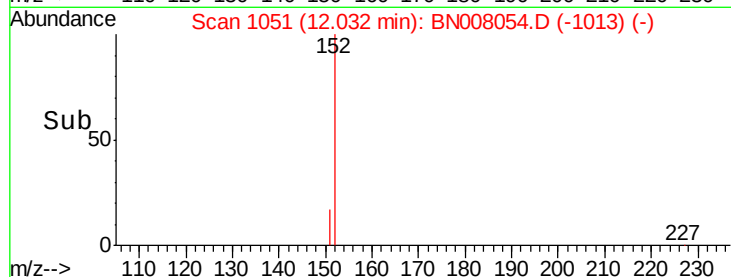
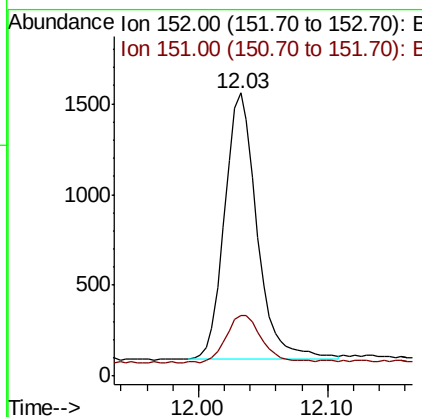
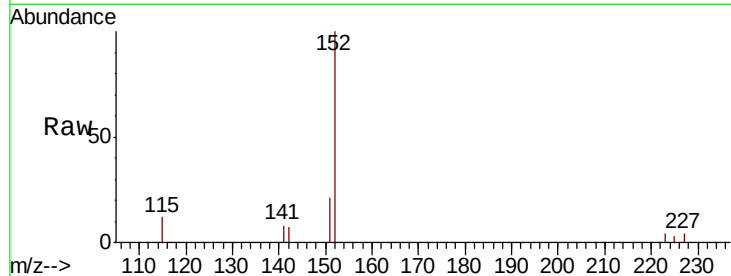
#11
2-Methylnaphthalene-d10
Concen: 0.112 ng
RT: 12.03 min Scan# 1051
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.4	23.2

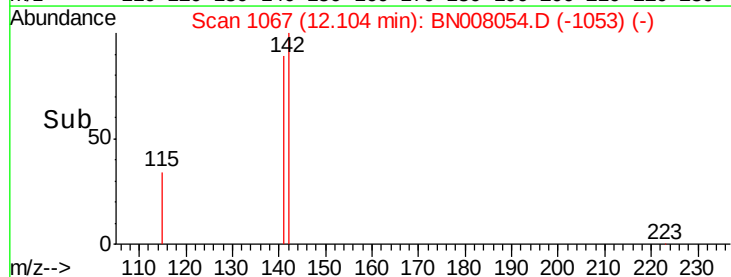
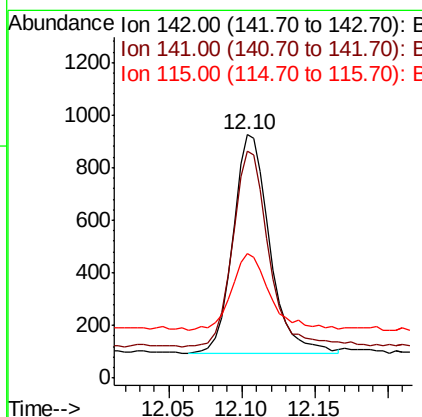
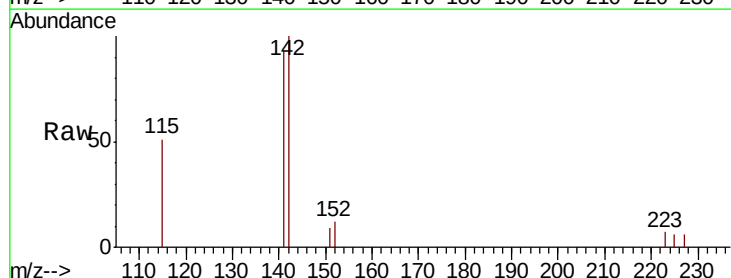
Manual Integrations
APPROVED

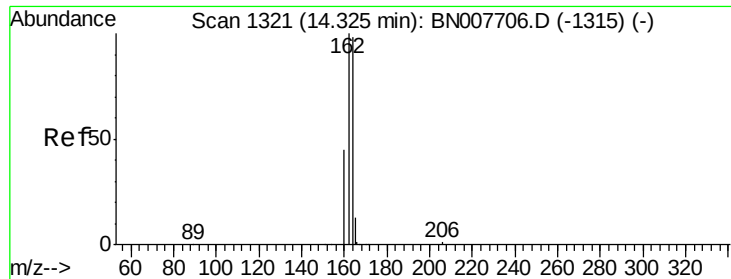
mohammad
10/8/2019 12:23:19 PM



#12
2-Methylnaphthalene
Concen: 0.056 ng
RT: 12.10 min Scan# 1067
Delta R.T. -0.04 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.0	70.6	106.0
115	51.3	28.3	42.5





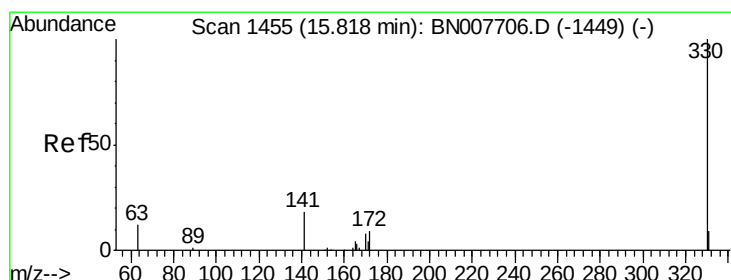
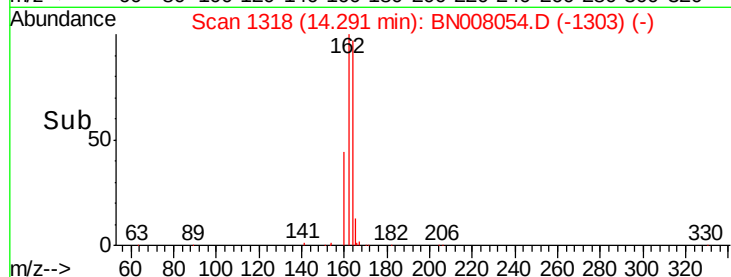
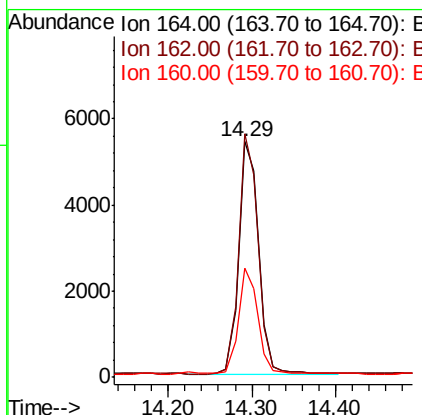
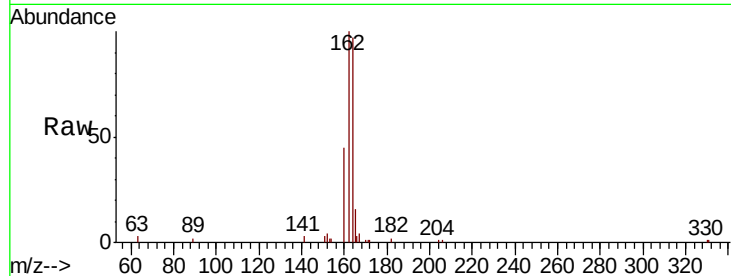
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.29 min Scan# 1318
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.3	81.7	122.5
160	46.6	37.0	55.4

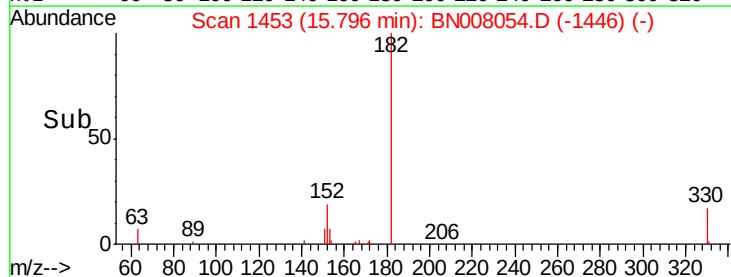
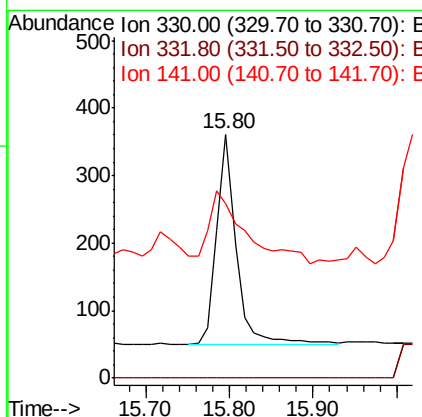
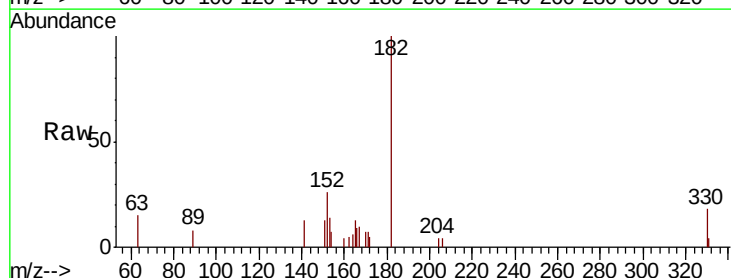
Manual Integrations
APPROVED

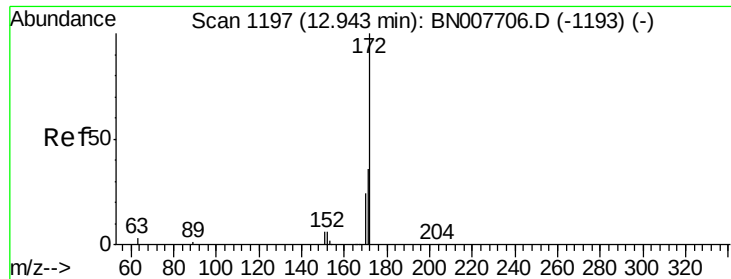
mohammad
10/8/2019 12:23:19 PM



#14
2,4,6-Tribromophenol
Concen: 0.107 ng
RT: 15.80 min Scan# 1453
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	56.0	28.7	43.1#





#15

2-Fluorobiphenyl

Concen: 0.098 ng

RT: 12.92 min Scan# 1195

Delta R.T. -0.02 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

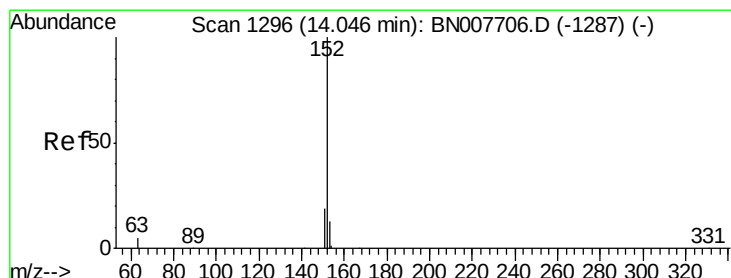
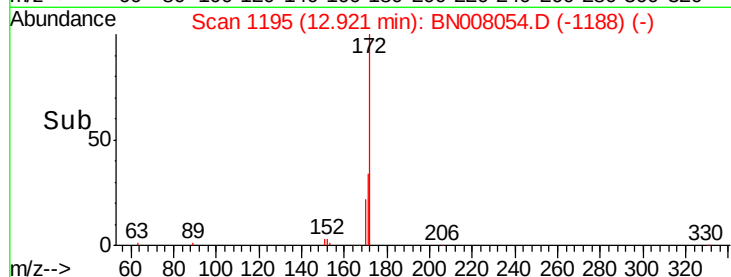
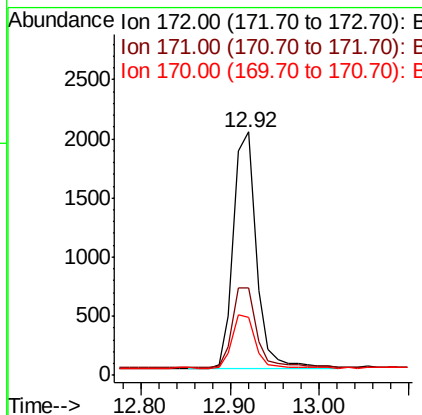
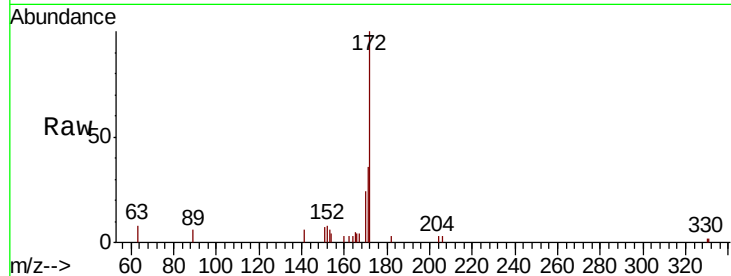
ClientSampleId :

EXT-024-SW072-092619DL

Tot Ion:	172	Resp:	3583
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.8	43.2
170	24.0	19.5	29.3

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM



#16

Acenaphthylene

Concen: 0.304 ng

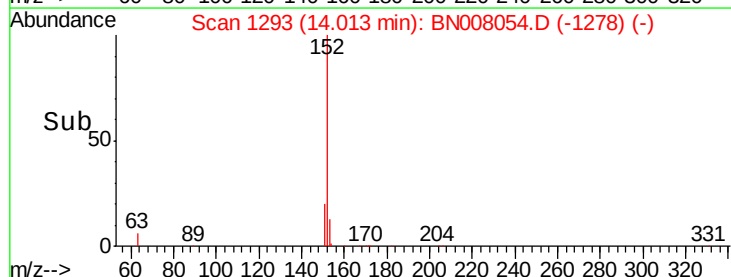
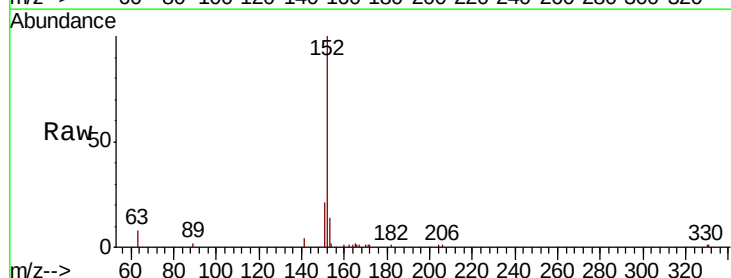
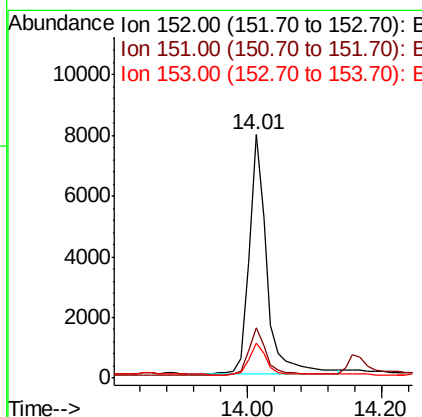
RT: 14.01 min Scan# 1293

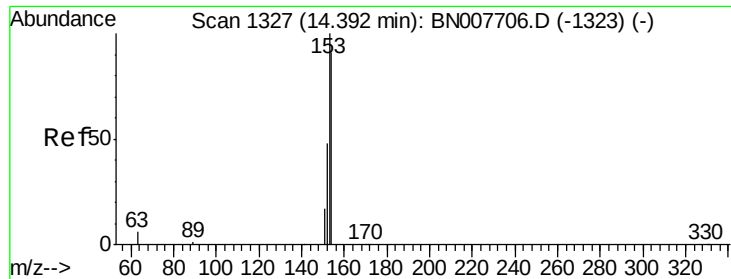
Delta R.T. -0.03 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Tgt Ion:	152	Resp:	14286
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.5	23.3
153	13.2	10.4	15.6





#17

Acenaphthene

Concen: 0.287 ng

RT: 14.36 min Scan# 1324

Delta R.T. -0.03 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

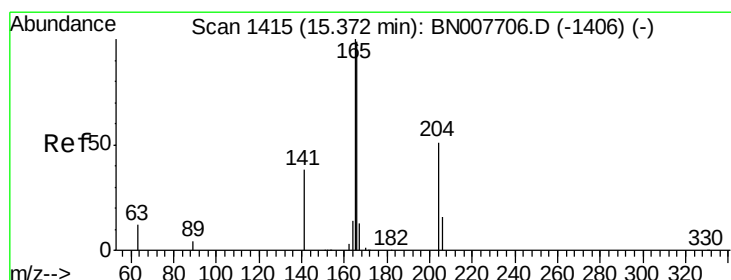
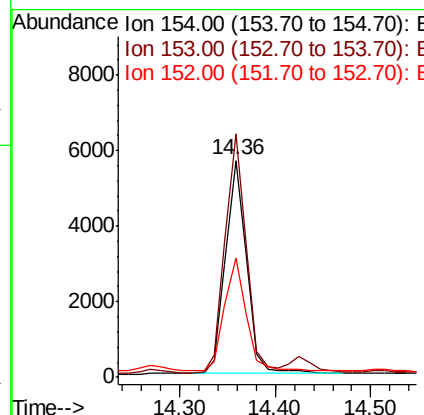
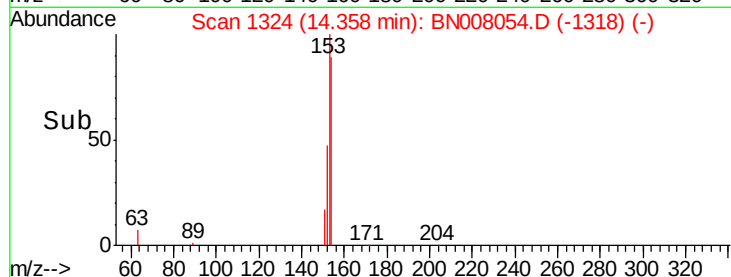
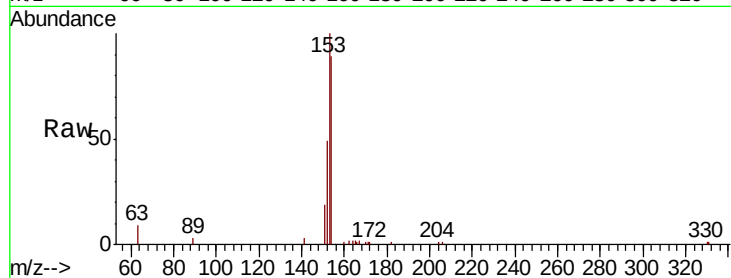
ClientSampleId :

EXT-024-SW072-092619DL

Tot Ion:	154	Resp:	8712
Ion Ratio	Lower	Upper	
154	100		
153	111.0	87.0	130.4
152	54.8	42.7	64.1

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM



#18

Fluorene

Concen: 0.313 ng

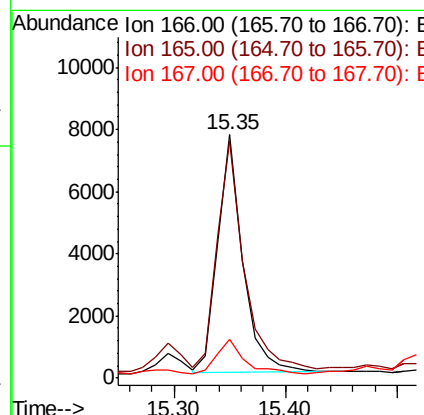
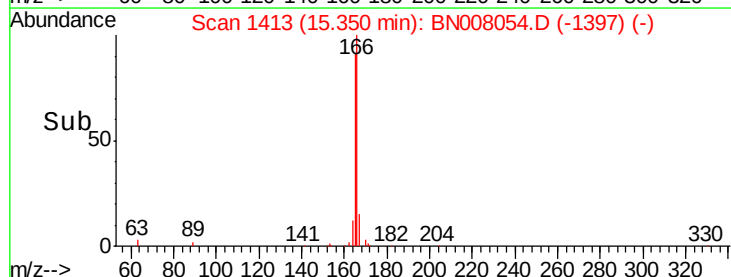
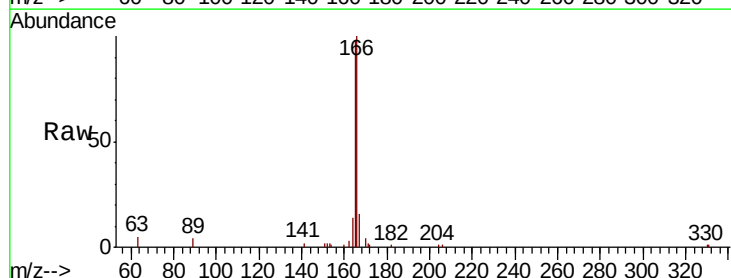
RT: 15.35 min Scan# 1413

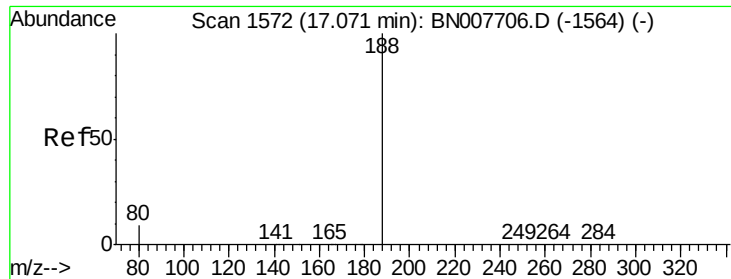
Delta R.T. -0.02 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Tgt Ion:	166	Resp:	12147
Ion Ratio	Lower	Upper	
166	100		
165	100.7	78.0	117.0
167	15.3	10.9	16.3





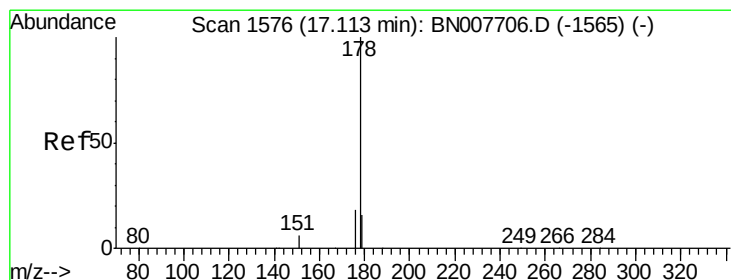
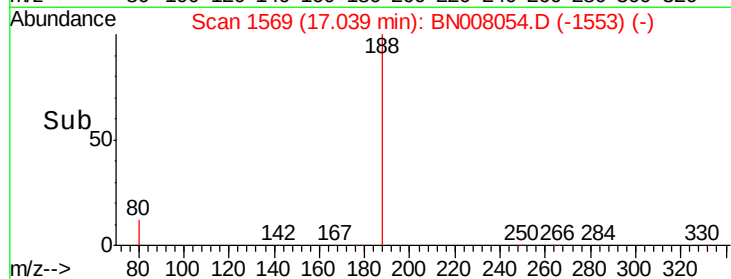
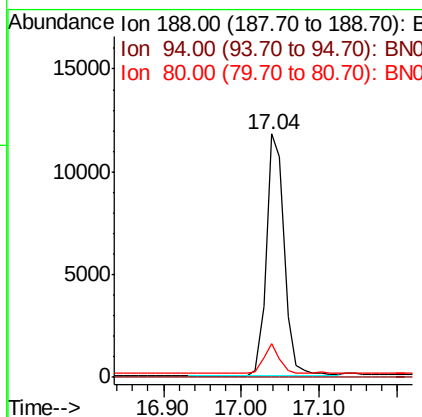
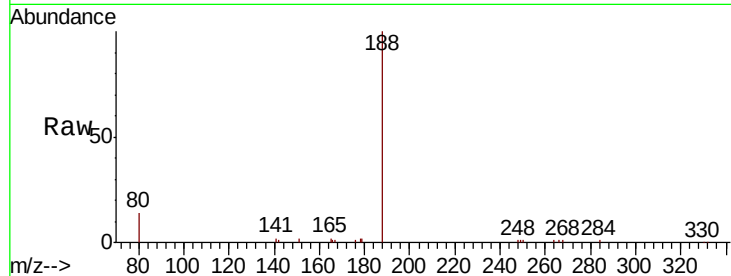
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.04 min Scan# 1569
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	19138		
94	0.0	0.0	0.0	0.0
80	13.7	7.4	11.2	

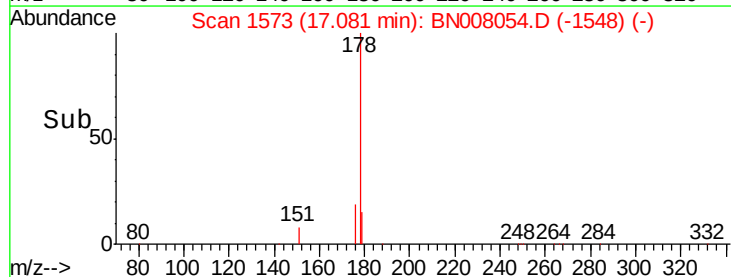
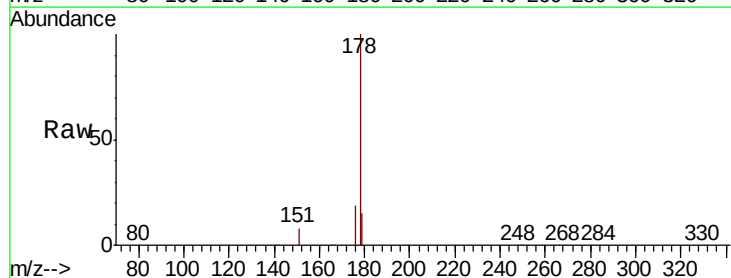
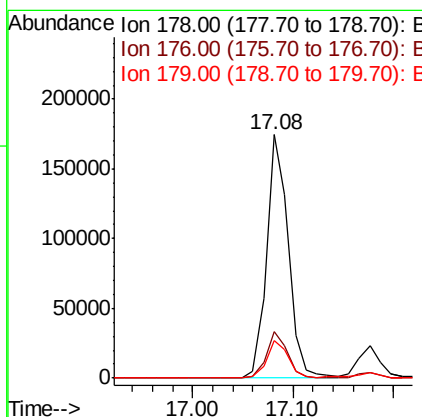
Manual Integrations
APPROVED

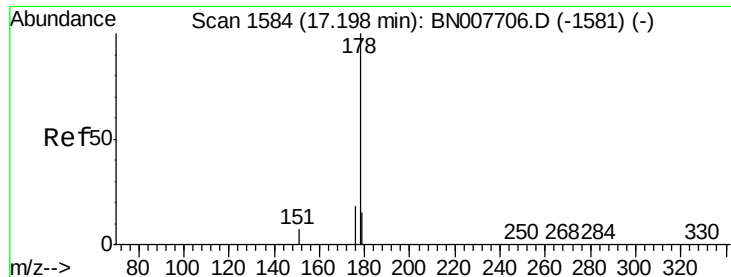
mohammad
10/8/2019 12:23:19 PM



#23
Phenanthrene
Concen: 4.373 ng
RT: 17.08 min Scan# 1573
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	260729		
176	18.5	14.9	22.3	
179	15.4	12.5	18.7	





#24

Anthracene

Concen: 0.655 ng

RT: 17.18 min Scan# 1582

Delta R.T. -0.02 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

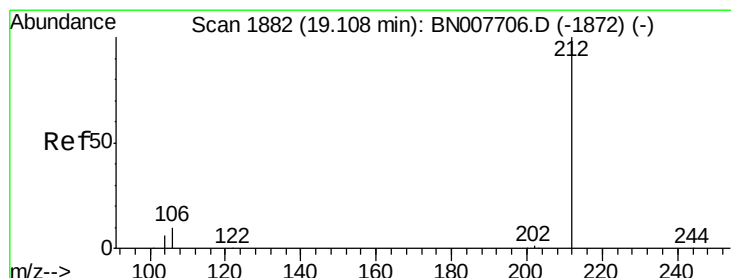
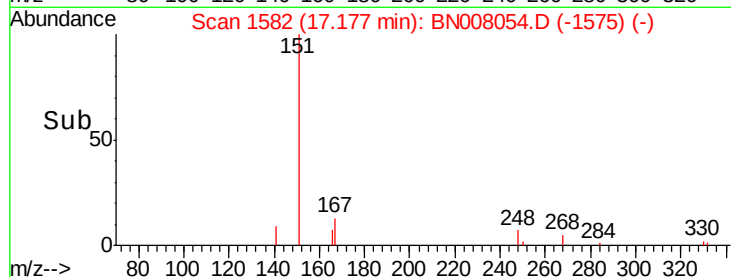
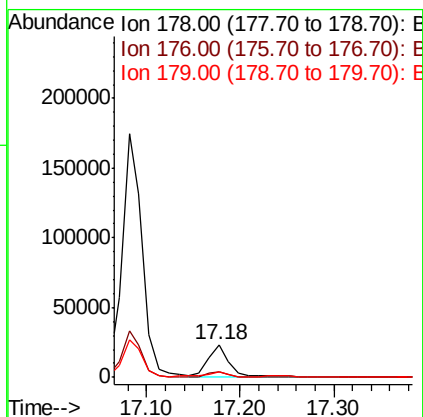
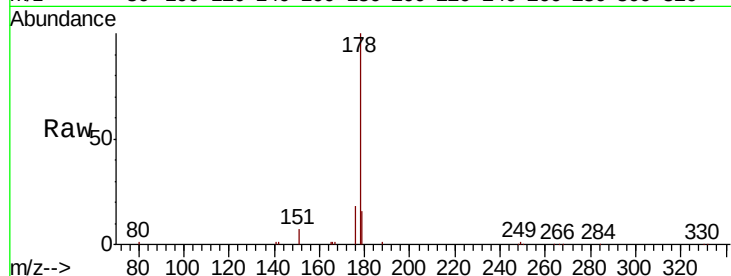
ClientSampleId :

EXT-024-SW072-092619DL

Tot Ion:178	Resp:	35289
Ion Ratio	Lower	Upper
178 100		
176 17.8	14.6	21.8
179 16.9	12.2	18.4

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM



#25

Fluoranthene-d10

Concen: 0.113 ng

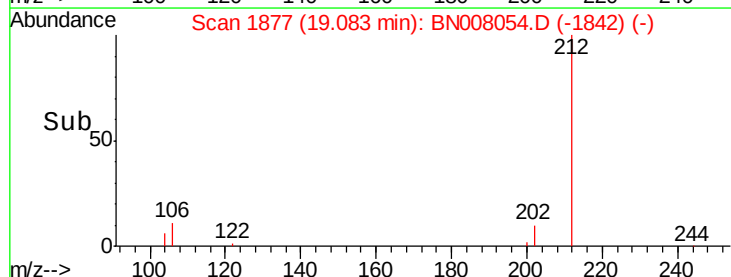
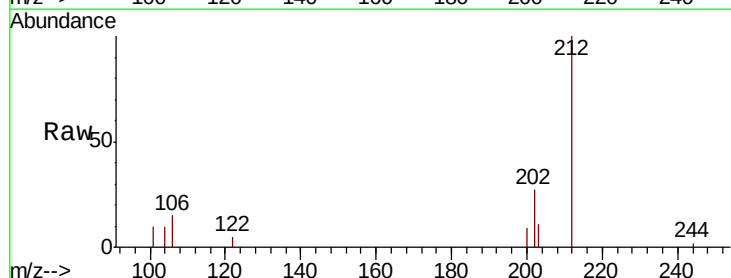
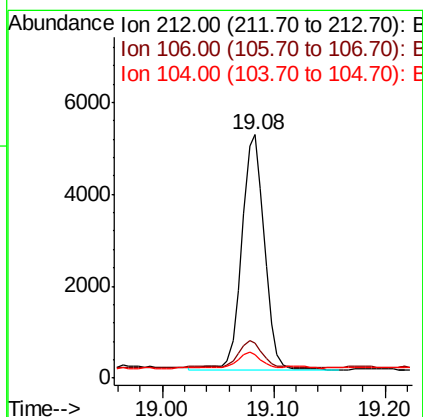
RT: 19.08 min Scan# 1877

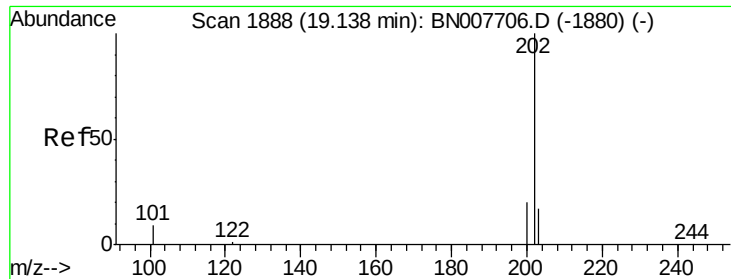
Delta R.T. -0.02 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Tgt Ion:212	Resp:	7281
Ion Ratio	Lower	Upper
212 100		
106 11.7	9.4	14.0
104 6.9	5.3	7.9





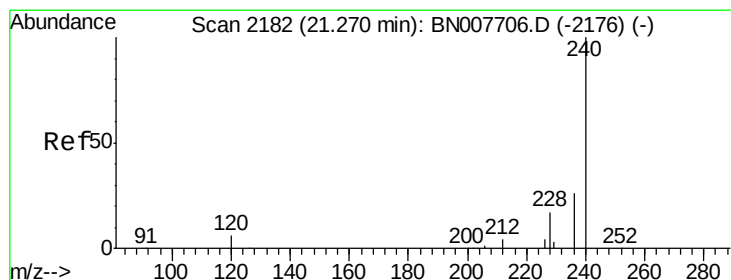
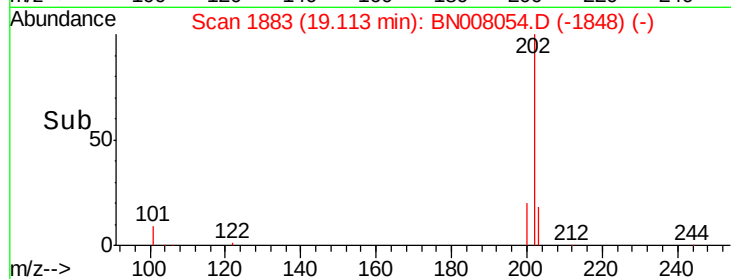
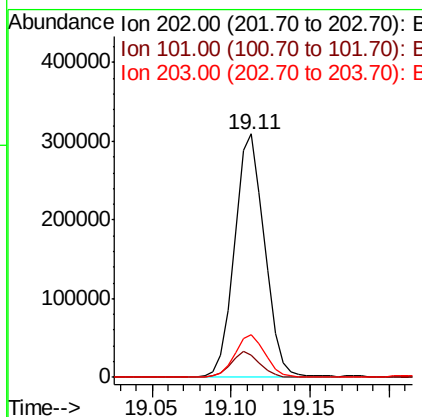
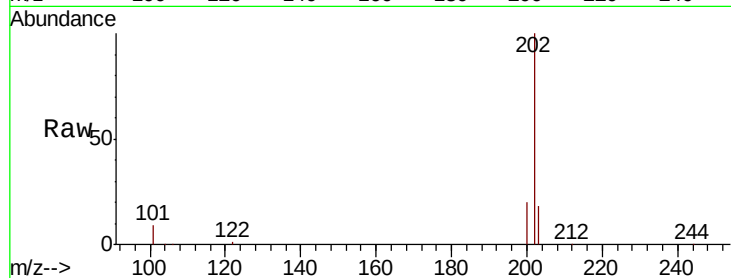
#26
Fluoranthene
Concen: 5.481 ng
RT: 19.11 min Scan# 1883
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.3	8.4	12.6
203	17.5	13.8	20.8

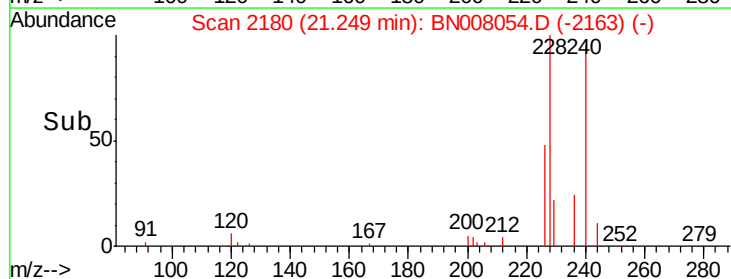
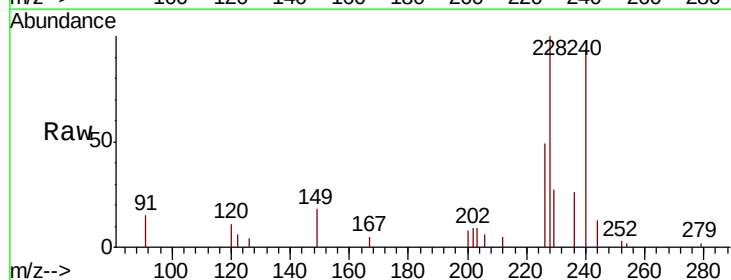
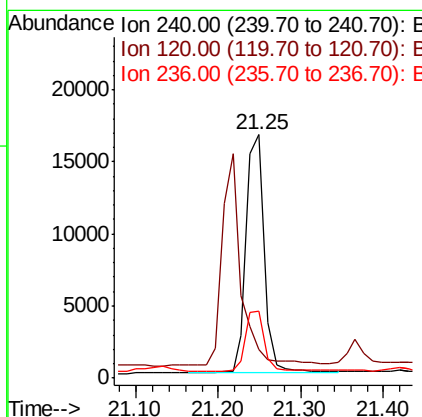
Manual Integrations
APPROVED

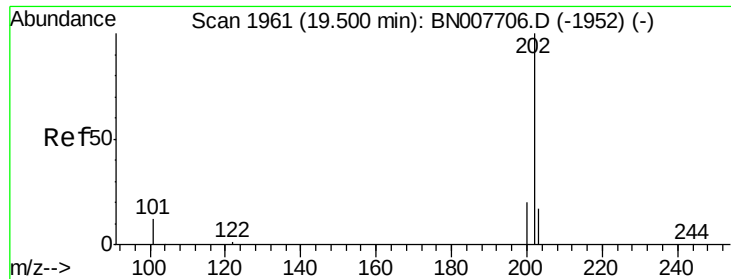
mohammad
10/8/2019 12:23:19 PM



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 2180
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	11.8	5.4	8.2#
236	27.7	21.0	31.4





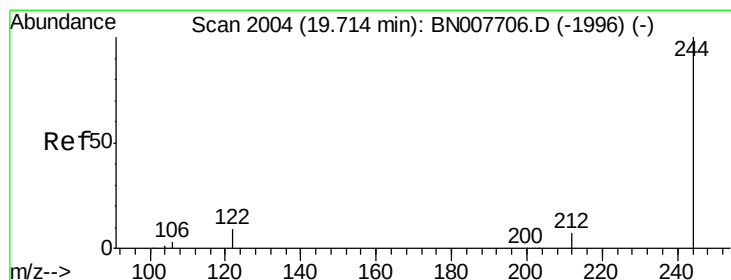
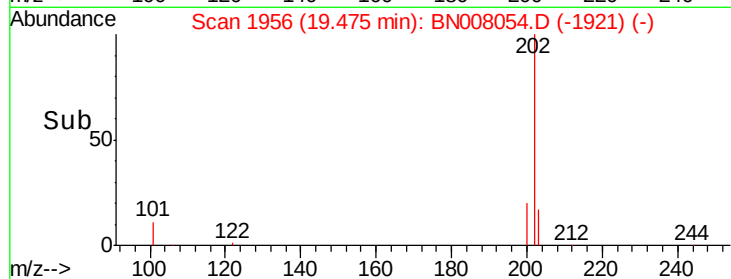
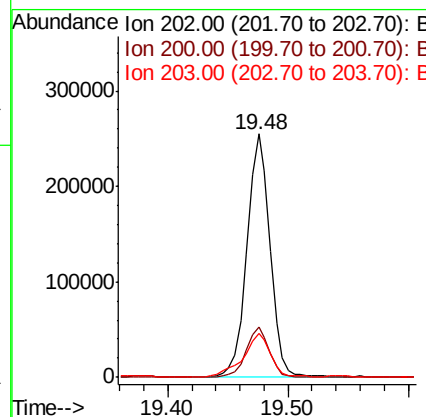
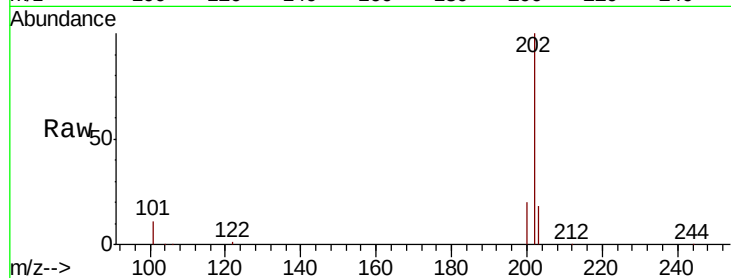
#28
Pvrene
Concen: 3.910 ng
RT: 19.48 min Scan# 1956
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	20.4	16.4	24.6	
203	21.0	14.1	21.1	

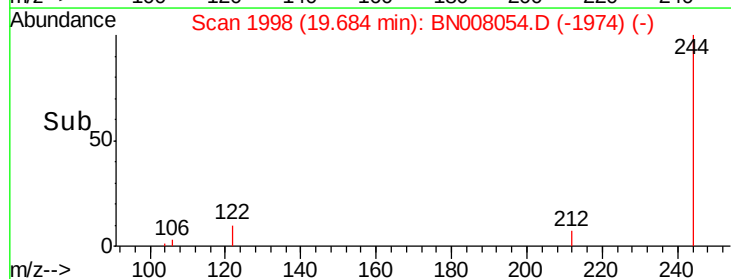
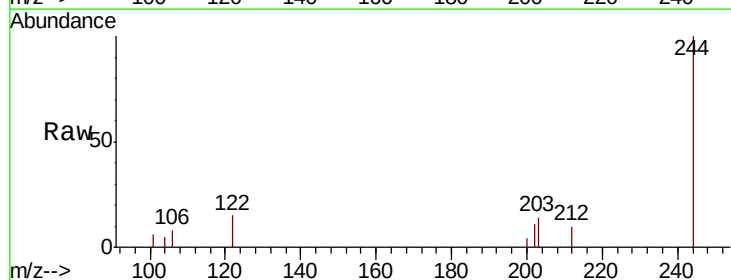
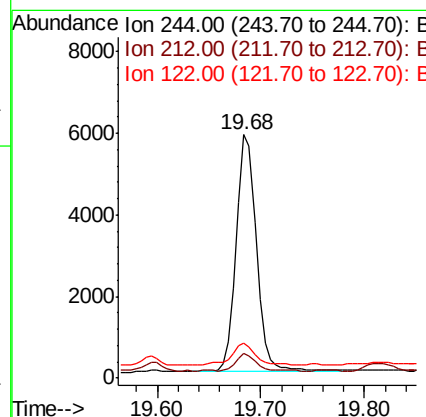
Manual Integrations
APPROVED

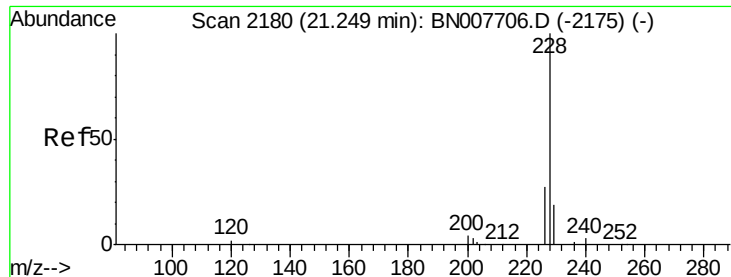
mohammad
10/8/2019 12:23:19 PM



#29
Terphenyl-d14
Concen: 0.124 ng
RT: 19.68 min Scan# 1998
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	9.9	5.9	8.9#	
122	14.6	7.4	11.2#	





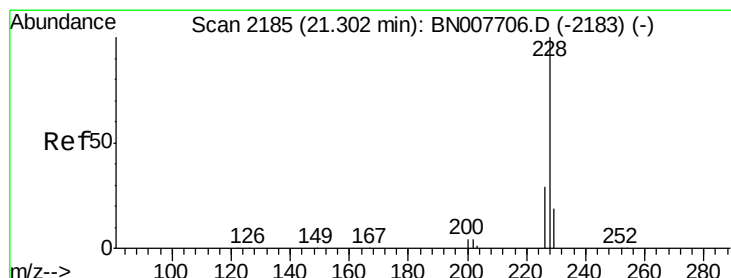
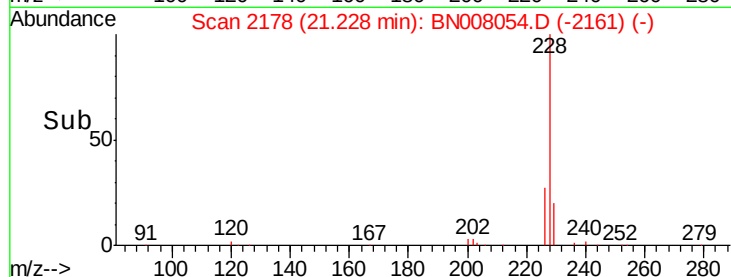
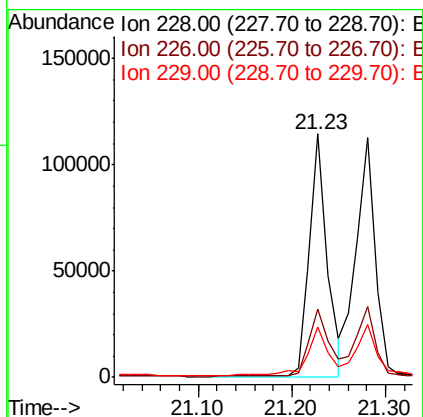
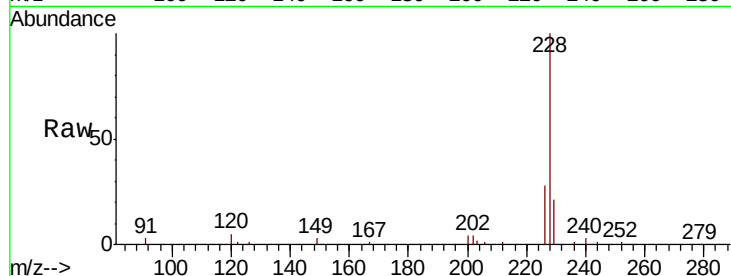
#30
Benzo(a)anthracene
Concen: 1.605 ng
RT: 21.23 min Scan# 2178
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.1	33.1
229	20.9	15.8	23.6

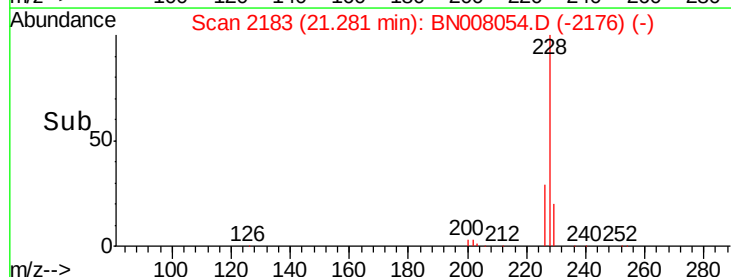
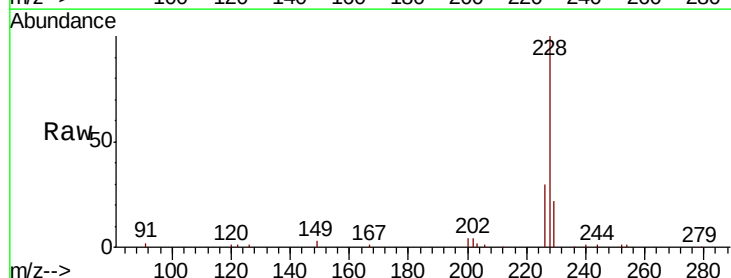
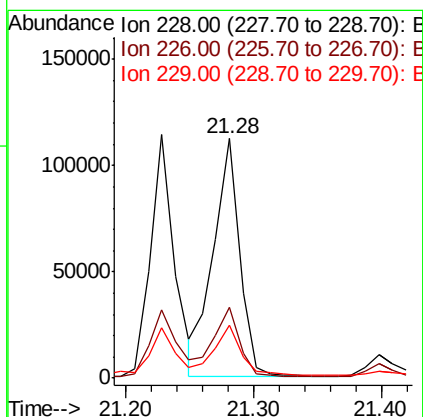
Manual Integrations
APPROVED

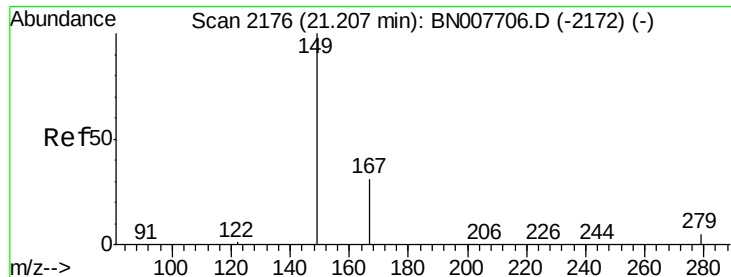
mohammad
10/8/2019 12:23:19 PM



#31
Chrysene
Concen: 1.751 ng
RT: 21.28 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.9	35.9
229	21.9	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.470 ng/ml

RT: 21.17 min Scan# 2173

Delta R.T. -0.03 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

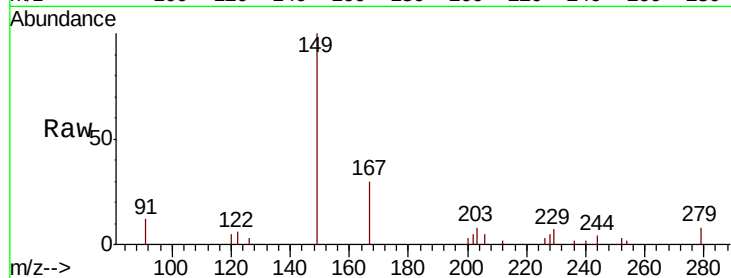
ClientSampleID :

EXT-024-SW072-092619DL

Tot Ion:	149	Resp:	22558
Ion Ratio	Lower	Upper	
149	100		
167	27.9	23.7	35.5
279	5.8	4.2	6.2

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM

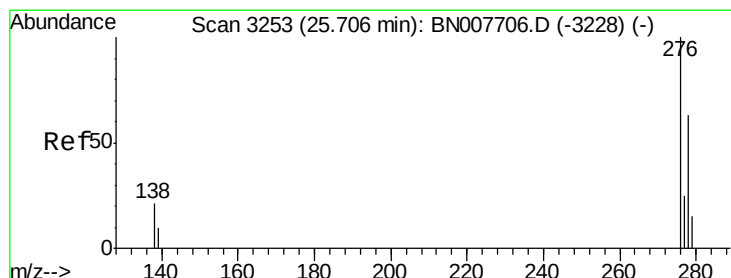
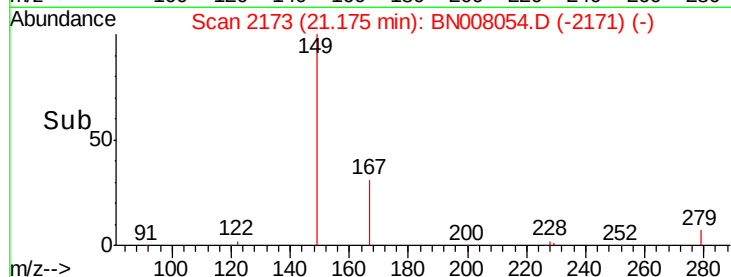
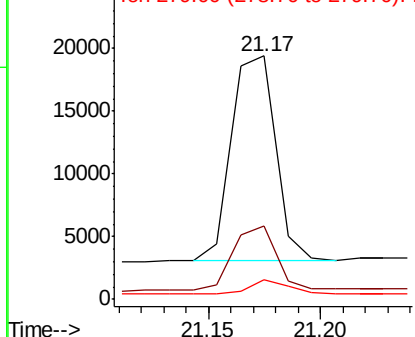


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.949 ng

RT: 25.66 min Scan# 3239

Delta R.T. -0.05 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

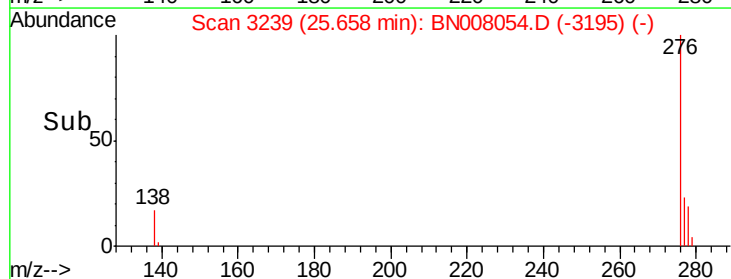
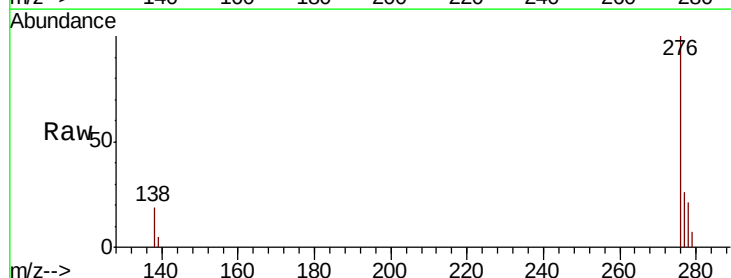
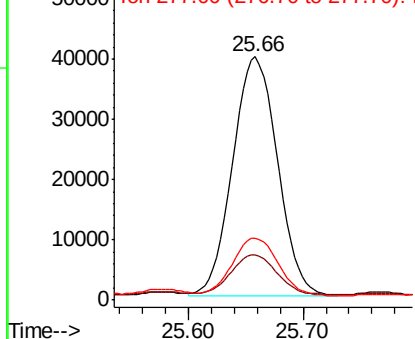
Tgt Ion:	276	Resp:	108052
Ion Ratio	Lower	Upper	
276	100		
138	17.1	17.1	25.7#
277	24.4	20.0	30.0

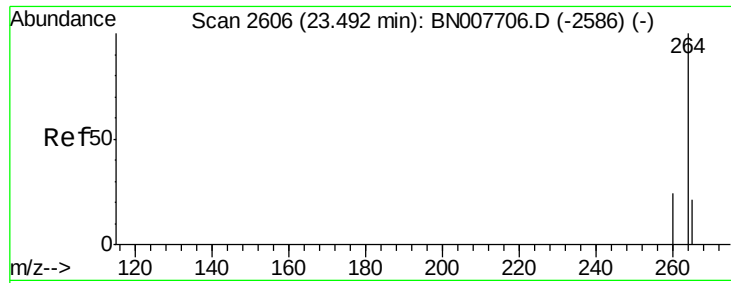
Abundance

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





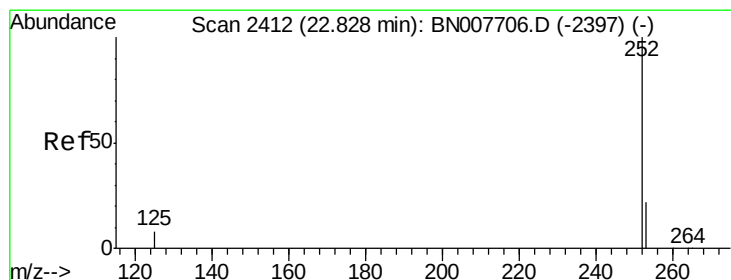
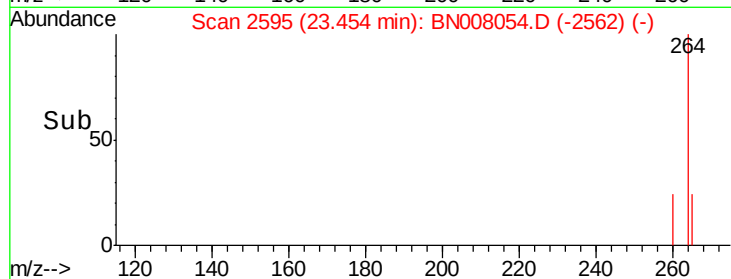
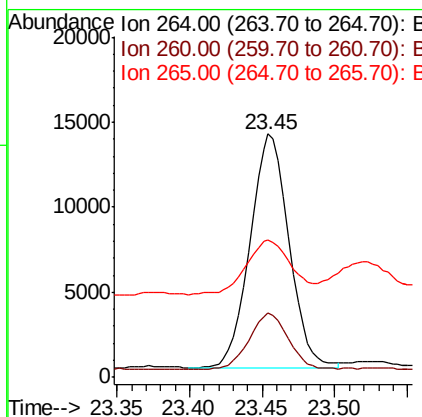
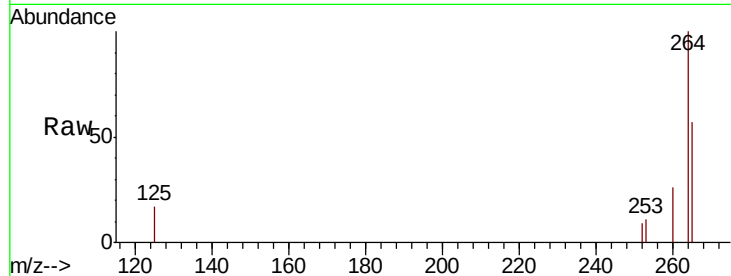
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.45 min Scan# 2595
 Delta R.T. -0.04 min
 Lab File: BN008054.D
 Acq: 07 Oct 2019 17:39

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW072-092619DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.4	19.3	28.9
265	56.6	26.9	40.3

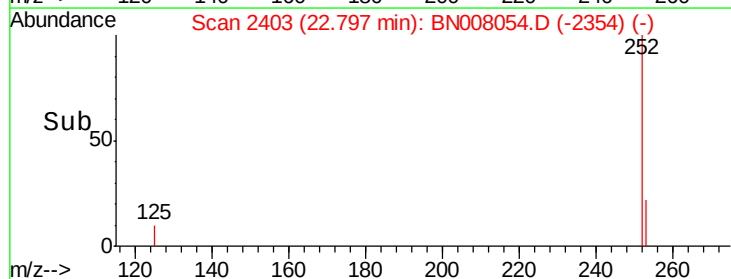
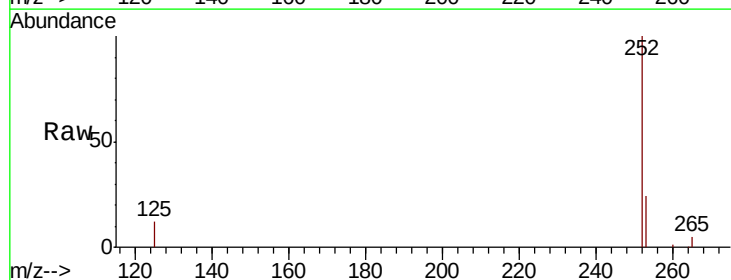
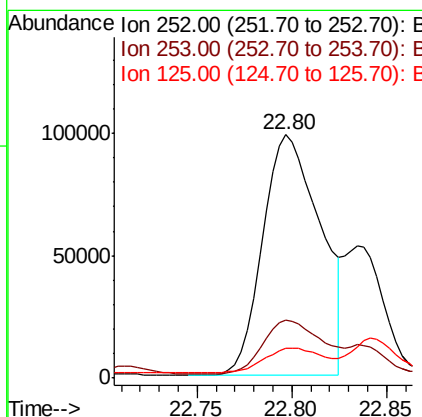
Manual Integrations
 APPROVED

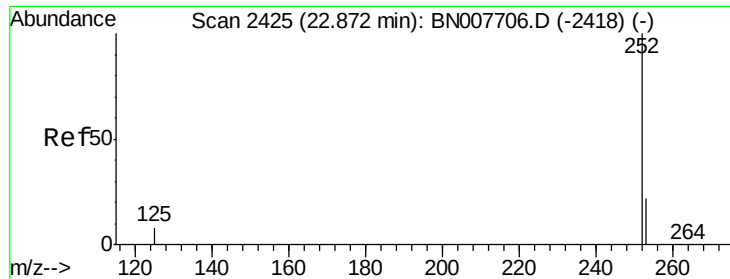
mohammad
 10/8/2019 12:23:19 PM



#35
 Benzo(b)fluoranthene
 Concen: 2.342 ng
 RT: 22.80 min Scan# 2403
 Delta R.T. -0.03 min
 Lab File: BN008054.D
 Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.3	27.5
125	12.0	8.2	12.4





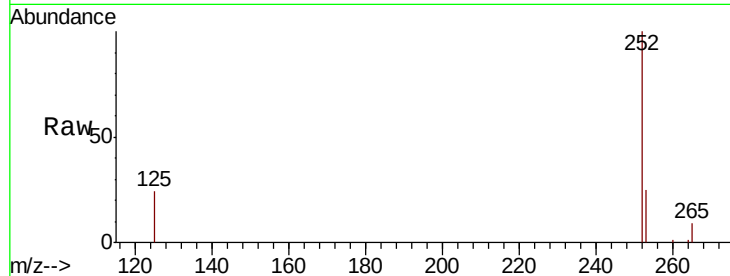
#36
Benzo(k)fluoranthene
Concen: 0.970 ng m
RT: 22.83 min Scan# 2414
Delta R.T. -0.04 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619DL

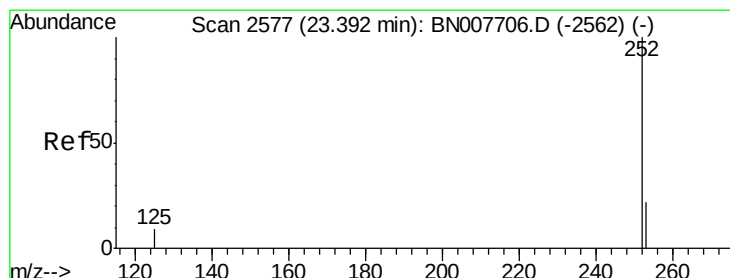
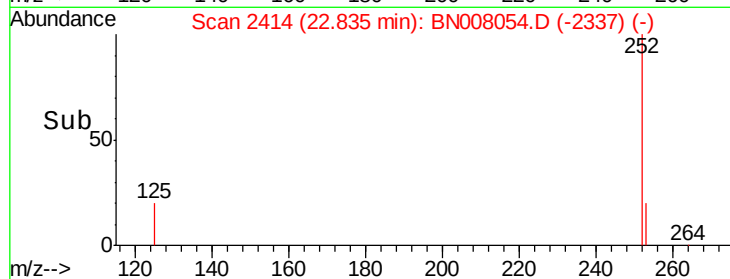
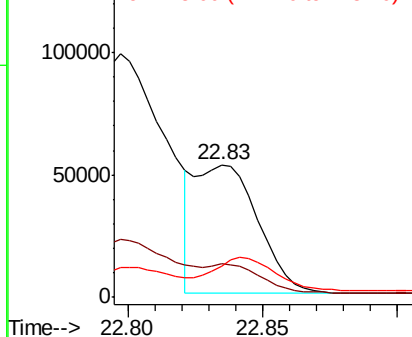
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.5	27.7
125	24.0	8.4	12.6

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM



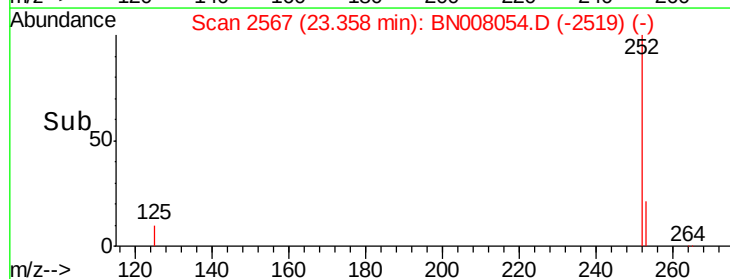
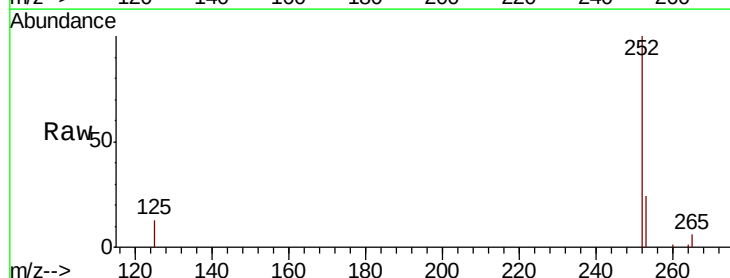
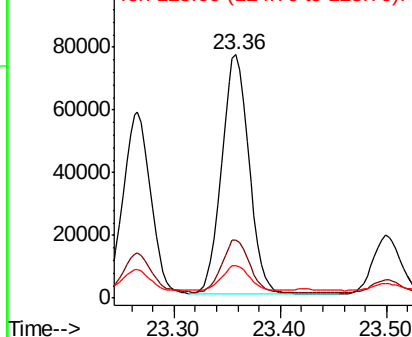
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

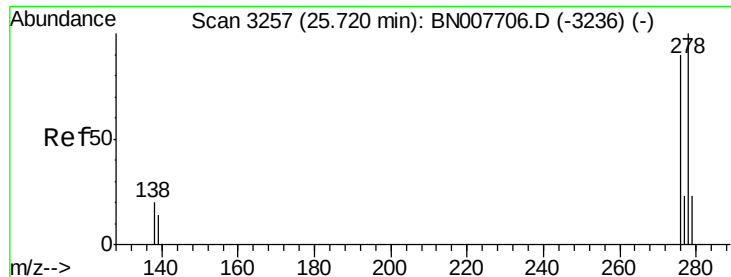


#37
Benzo(a)pyrene
Concen: 1.638 ng
RT: 23.36 min Scan# 2567
Delta R.T. -0.03 min
Lab File: BN008054.D
Acq: 07 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.6	27.8
125	13.3	9.4	14.0

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





#38

Dibenzo(a,h)anthracene

Concen: 0.300 ng

RT: 25.66 min Scan# 3240

Delta R.T. -0.06 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Instrument :

BNA_N

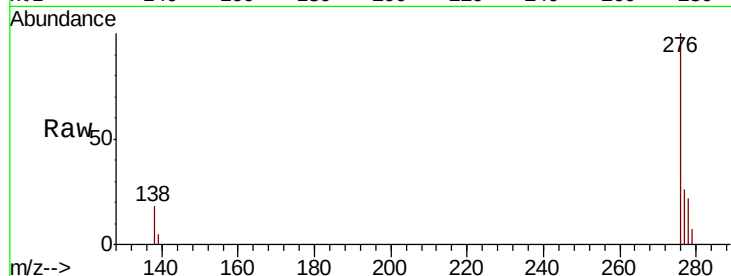
ClientSampleId :

EXT-024-SW072-092619DL

Tot Ion:	278	Resp:	25586
Ion Ratio	Lower	Upper	
278	100		
139	24.3	11.8	17.6#
279	32.1	19.4	29.2#

Manual Integrations
APPROVED

mohammad
10/8/2019 12:23:19 PM

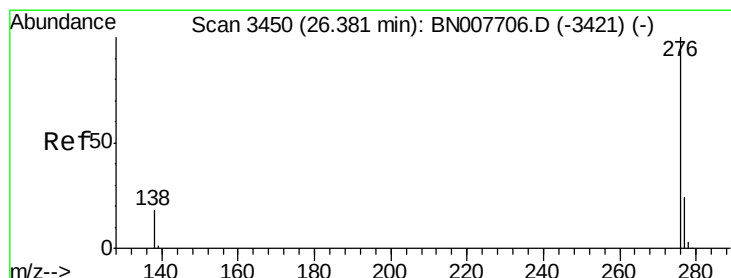
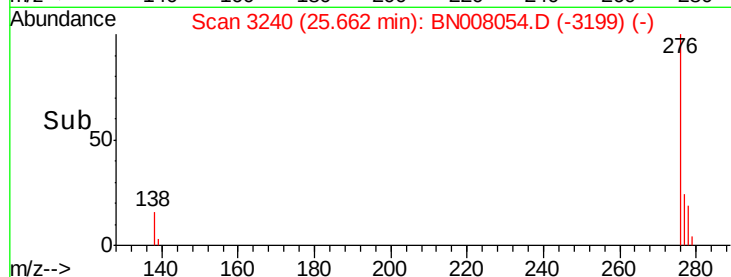
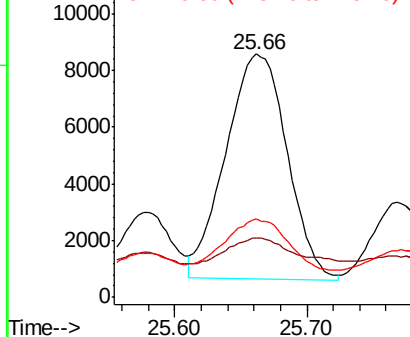


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 1.272 ng

RT: 26.33 min Scan# 3435

Delta R.T. -0.05 min

Lab File: BN008054.D

Acq: 07 Oct 2019 17:39

Tgt Ion:	276	Resp:	107173
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.8	29.8
138	19.3	15.1	22.7

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

