

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100719\
 Data File : BP000554.D
 Acq On : 07 Oct 2019 19:44
 Operator : JU
 Sample : K5213-07 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 S-4(0-5)

Manual Integrations
 APPROVED

mohammad
 10/8/2019 12:24:04 PM

Quant Time: Oct 08 10:44:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 01 18:03:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	255999	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	649141	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	312387	20.00	ng	0.02
64) Phenanthrene-d10	11.33	188	594929	20.00	ng	0.02
76) Chrysene-d12	14.01	240	556516	20.00	ng	0.03
87) Perylene-d12	15.52	264	673122	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	636692	39.98	ng	0.00
7) Phenol-d6	6.40	99	842144	43.88	ng	0.00
23) Nitrobenzene-d5	7.32	82	522934	49.20	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	157109	47.20	ng	0.02
45) 2-Fluorobiphenyl	9.14	172	724594	37.53	ng	0.00
79) Terphenyl-d14	12.94	244	754719	27.46	ng	0.02
Target Compounds						
31) Naphthalene	8.08	128	183317	6.047	ng	# 41
37) 2-Methylnaphthalene	8.78	142	487004	23.929	ng	# 96
38) 1-Methylnaphthalene	8.87	142	931000	48.413	ng	# 96
49) Acenaphthylene	9.69	152	163711	5.951	ng	# 1
50) Dimethylphthalate	9.54	163	199554	9.193	ng	# 54
52) Acenaphthene	9.86	154	177633	10.645	ng	# 78
55) Dibenzofuran	10.04	168	130416	5.228	ng	# 1
58) Fluorene	10.39	166	441348	24.826	ng	# 83
71) Phenanthrene	11.36	178	998282	33.411	ng	# 89
72) Anthracene	11.41	178	184941	6.243	ng	# 64
74) Di-n-butylphthalate	11.90	149	103296m	3.088	ng	
75) Fluoranthene	12.57	202	325859	9.711	ng	83
78) Pvrene	12.80	202	1037011	27.018	ng	# 94
81) Benzo(a)anthracene	14.00	228	270182	7.957	ng	# 24
83) Chrysene	14.04	228	350926	10.530	ng	# 54
84) Bis(2-ethylhexyl)phthalate	13.99	149	56691	2.695	ng	# 61
86) Indeno(1,2,3-cd)pvrene	17.00	276	166949	4.010	ng	95
88) Benzo(b)fluoranthene	15.08	252	263825m	6.909	ng	
90) Benzo(a)pvrene	15.45	252	267513	7.515	ng	# 54
91) Dibenzo(a,h)anthracene	17.00	278	77877	2.256	ng	# 2
92) Benzo(g,h,i)perylene	17.45	276	288684	8.229	ng	# 89

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

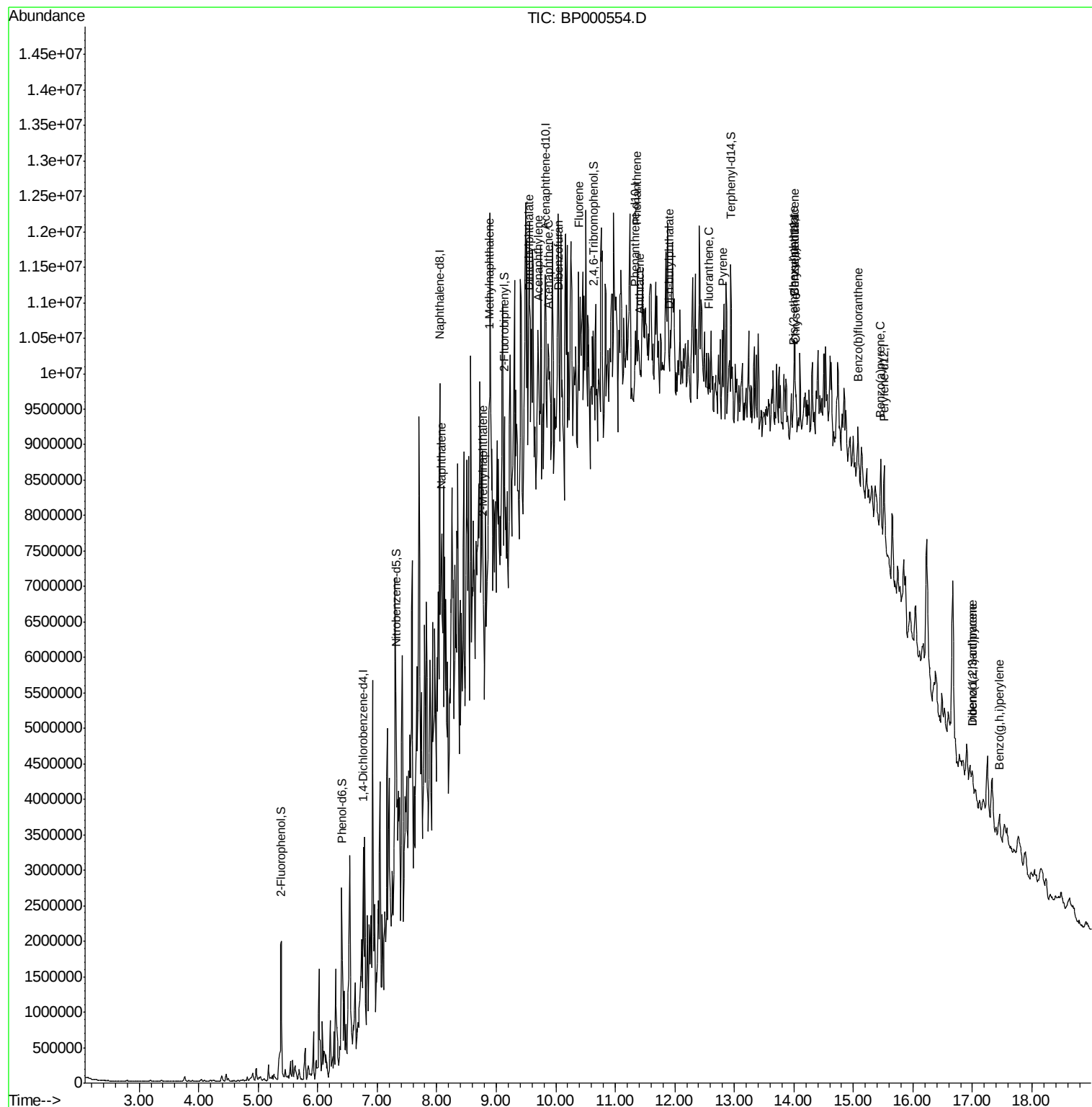
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100719\
Data File : BP000554.D
Acq On : 07 Oct 2019 19:44
Operator : JU
Sample : K5213-07 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

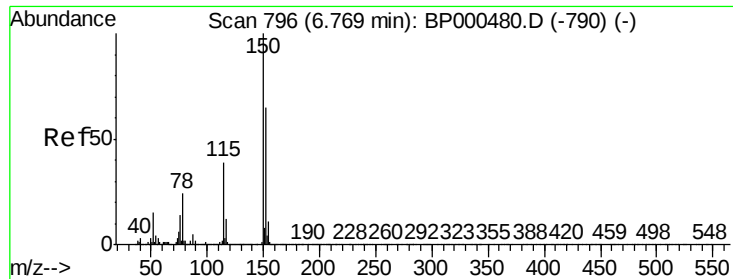
Instrument :
BNA_P
ClientSampled :
S-4(0-5)

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM

Quant Time: Oct 08 10:44:34 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 01 18:03:42 2019
Response via : Initial Calibration





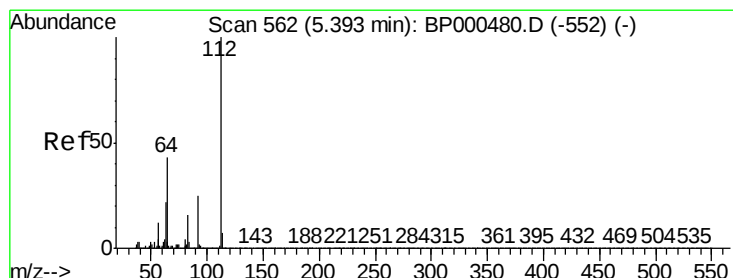
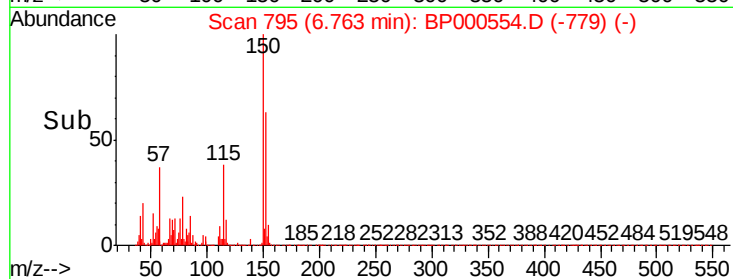
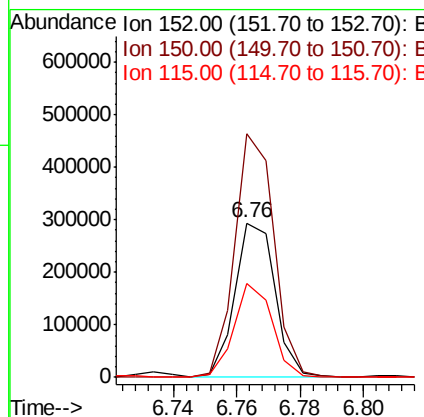
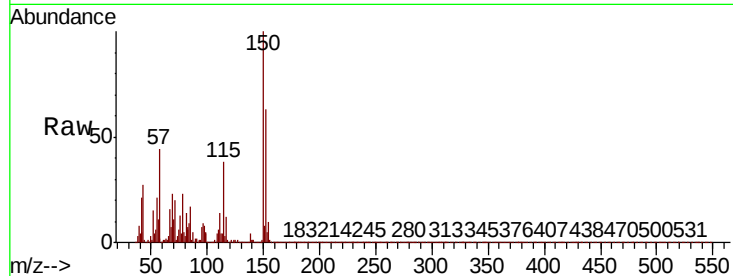
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.76 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BP000554.D
 Acq: 07 Oct 2019 19:44

Instrument :
 BNA_P
 ClientSampleId :
 S-4(0-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.1	186.1
115	60.4	48.7	73.1

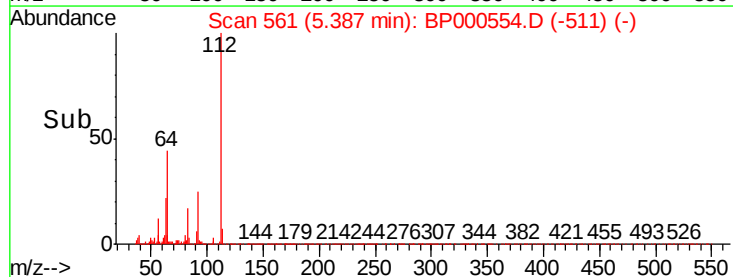
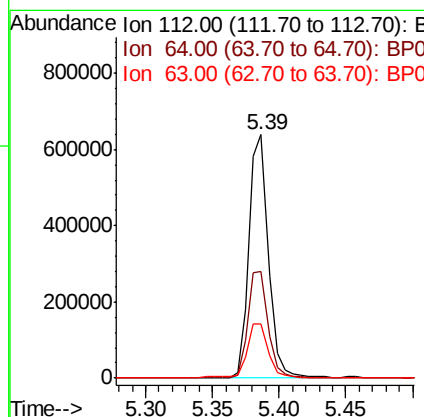
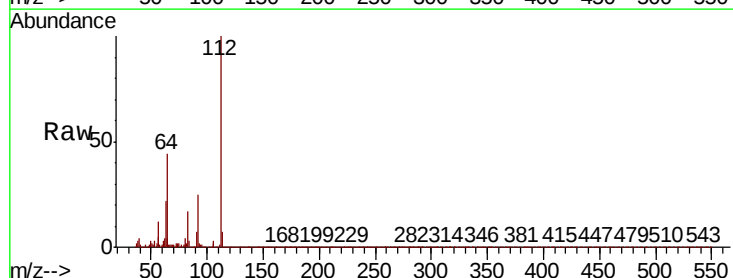
Manual Integrations
 APPROVED

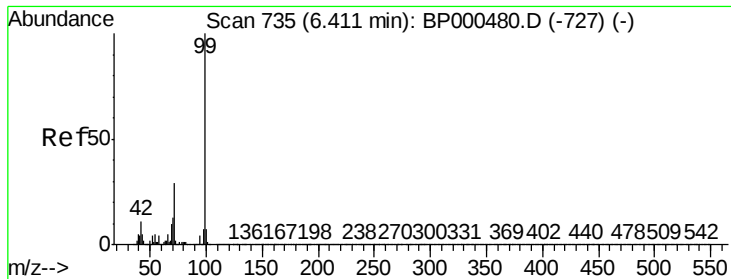
mohammad
 10/8/2019 12:24:04 PM



#5
 2-Fluorophenol
 Concen: 39.979 ng
 RT: 5.39 min Scan# 561
 Delta R.T. -0.01 min
 Lab File: BP000554.D
 Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	43.7	34.2	51.4
63	22.5	17.9	26.9





#7

Phenol-d6

Concen: 43.881 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

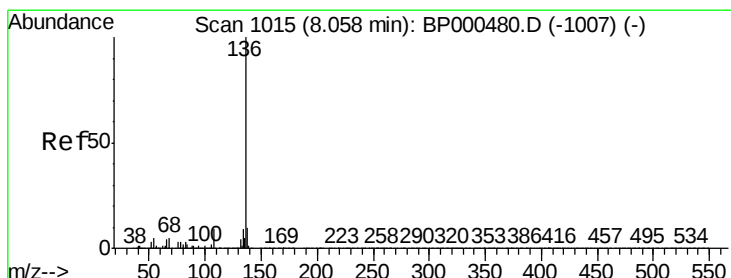
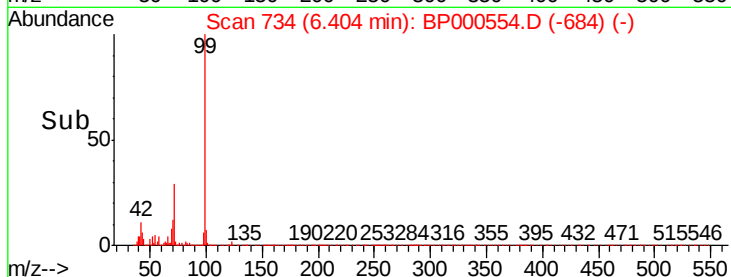
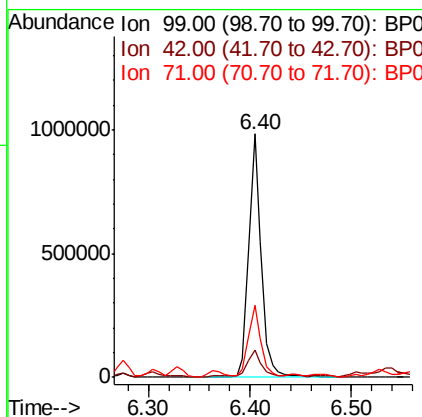
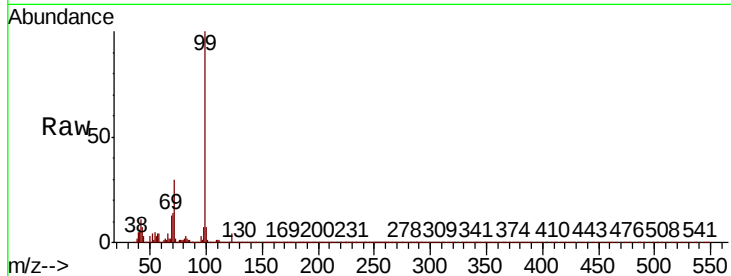
ClientSampleId :

S-4(0-5)

Tot Ion:	99	Resp:	842144
Ion Ratio	Lower	Upper	
99	100		
42	11.3	8.6	12.8
71	29.9	23.0	34.4

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#21

Naphthalene-d8

Concen: 20.000 ng

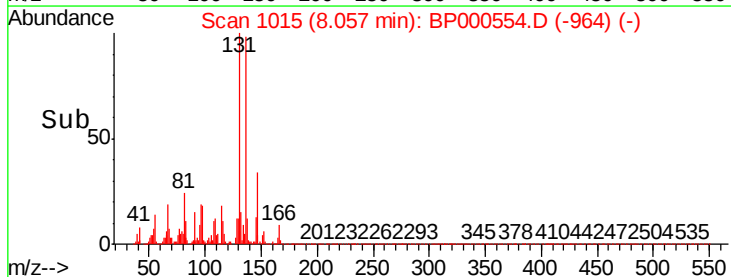
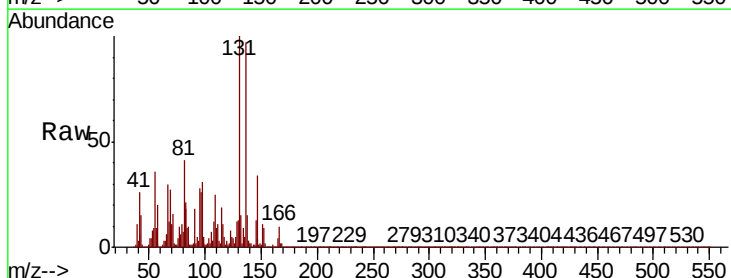
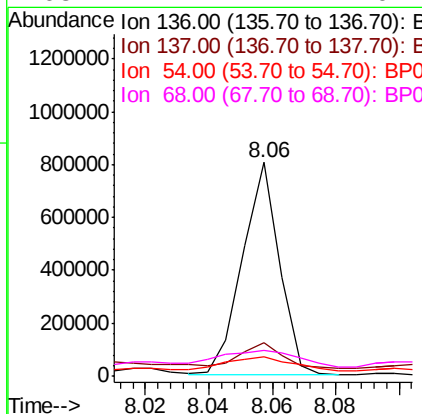
RT: 8.06 min Scan# 1015

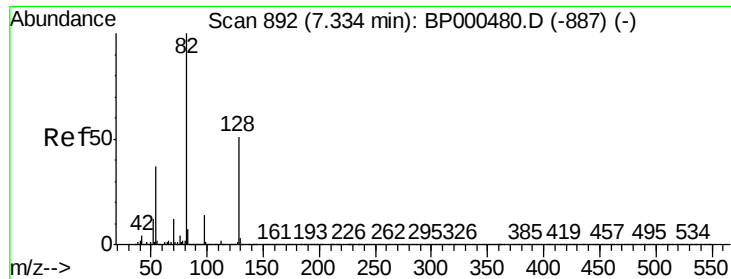
Delta R.T. -0.00 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	136	Resp:	649141
Ion Ratio	Lower	Upper	
136	100		
137	15.5	8.2	12.4#
54	9.0	4.1	6.1#
68	12.2	4.1	6.1#





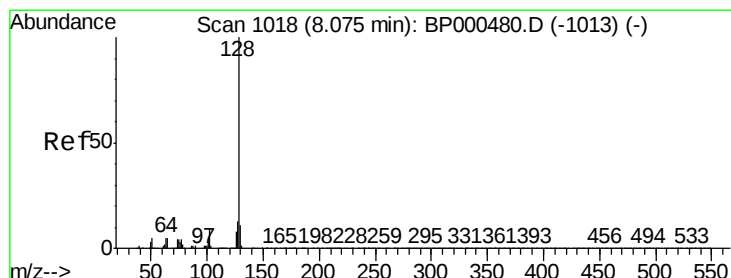
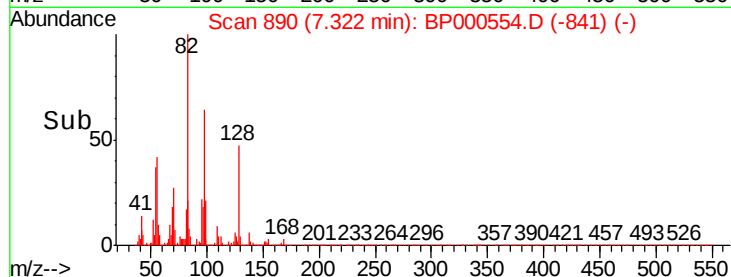
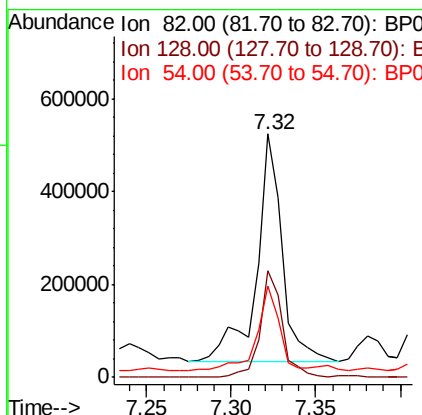
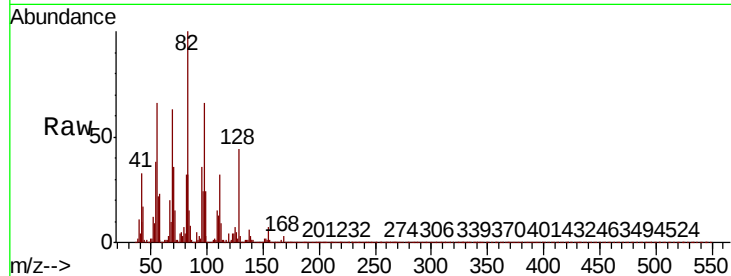
#23
 Nitrobenzene-d5
 Concen: 49.201 ng
 RT: 7.32 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: BP000554.D
 Acq: 07 Oct 2019 19:44

Instrument :
 BNA_P
 ClientSampleId :
 S-4(0-5)

Tot Ion	82	Resp	522934
Ion Ratio	Lower	Upper	
82	100		
128	43.9	40.9	61.3
54	37.5	29.4	44.2

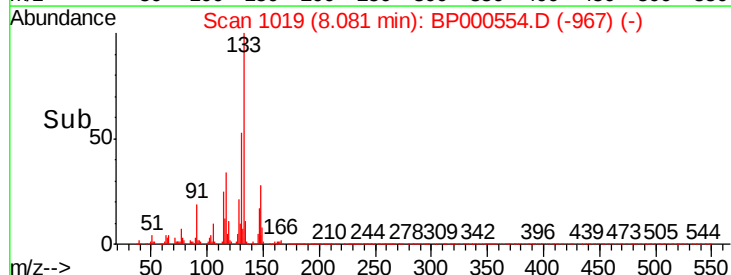
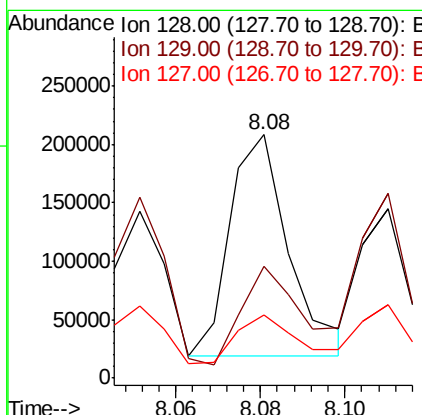
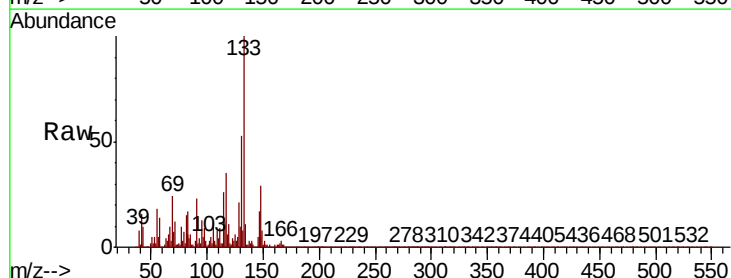
Manual Integrations
 APPROVED

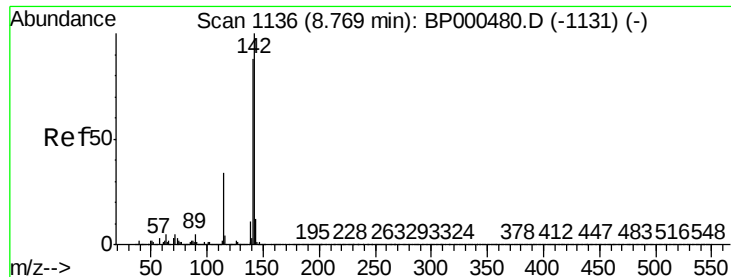
mohammad
 10/8/2019 12:24:04 PM



#31
 Naphthalene
 Concen: 6.047 ng
 RT: 8.08 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: BP000554.D
 Acq: 07 Oct 2019 19:44

Tgt Ion	128	Resp	183317
Ion Ratio	Lower	Upper	
128	100		
129	45.9	9.0	13.6#
127	25.8	10.5	15.7#





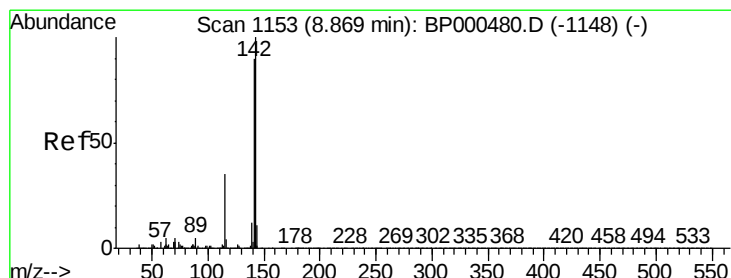
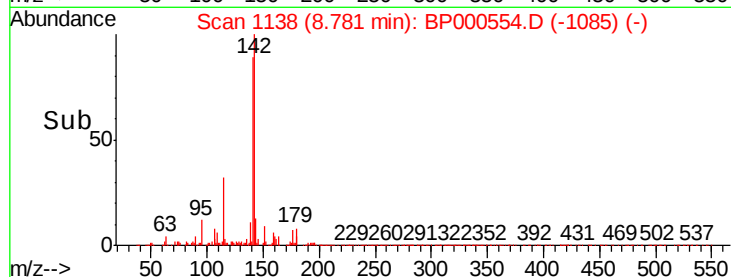
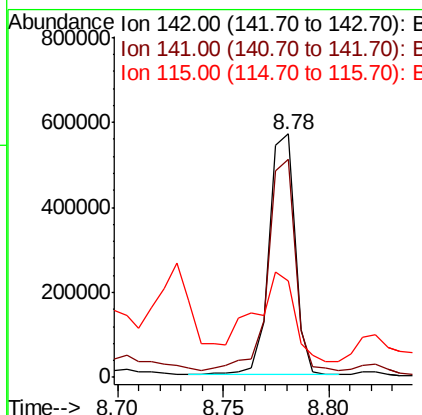
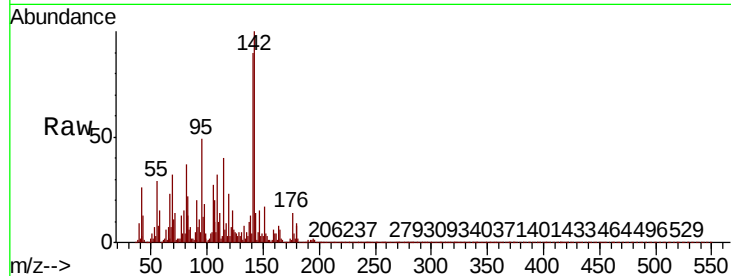
#37
2-Methylnaphthalene
Concen: 23.929 ng
RT: 8.78 min Scan# 1138
Delta R.T. 0.01 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampleId :
S-4(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	487004		
141	89.6		70.6	106.0
115	39.7		27.4	41.0

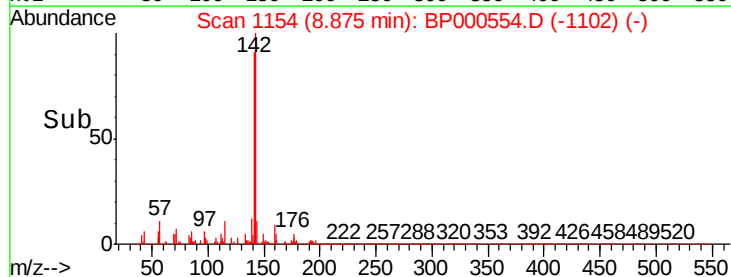
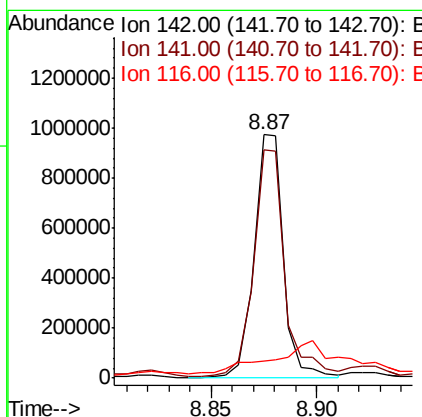
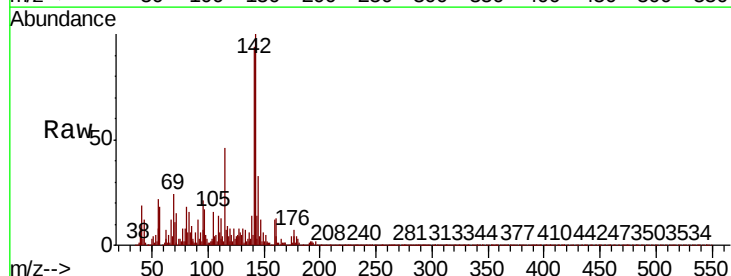
Manual Integrations
APPROVED

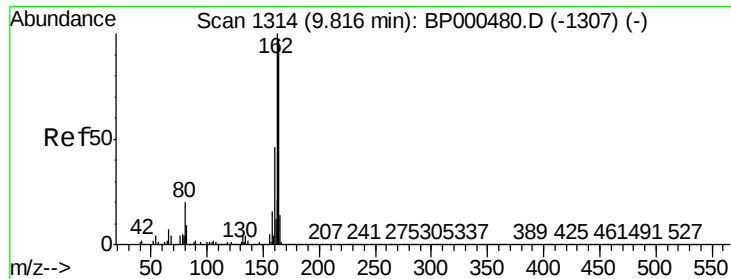
mohammad
10/8/2019 12:24:04 PM



#38
1-Methylnaphthalene
Concen: 48.413 ng
RT: 8.87 min Scan# 1154
Delta R.T. 0.01 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	931000		
141	93.6		71.9	107.9
116	7.0		3.0	4.4#





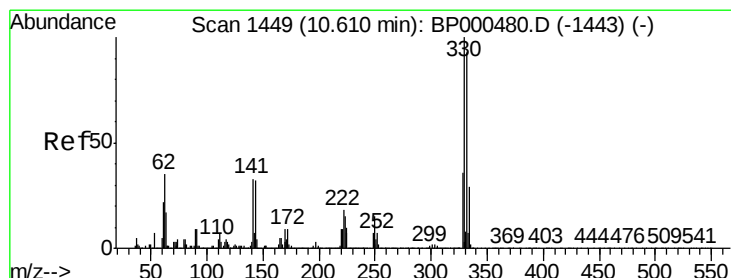
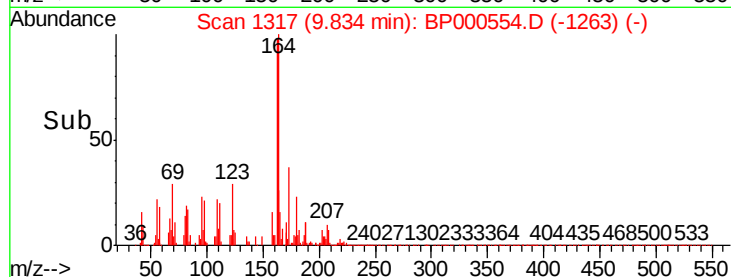
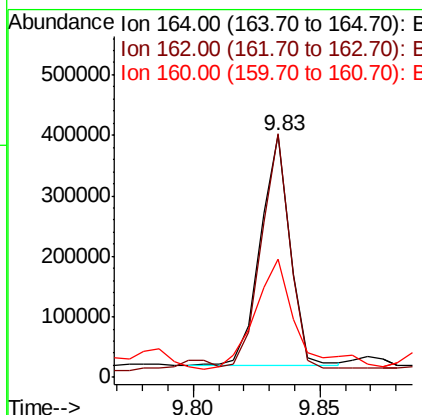
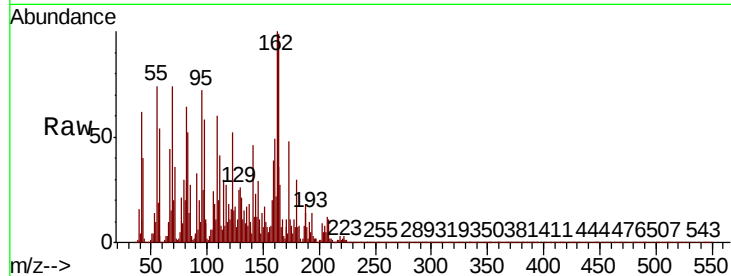
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.02 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampled :
S-4(0-5)

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.2	123.2
160	48.9	37.6	56.4

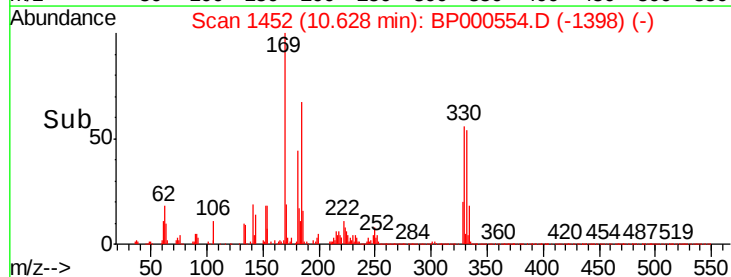
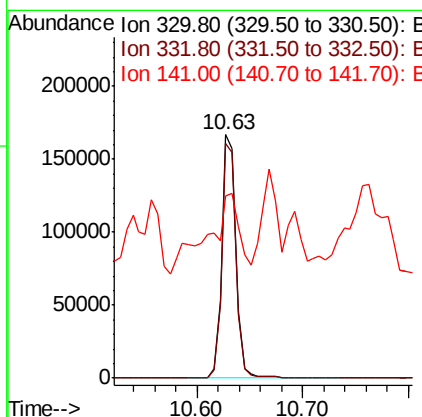
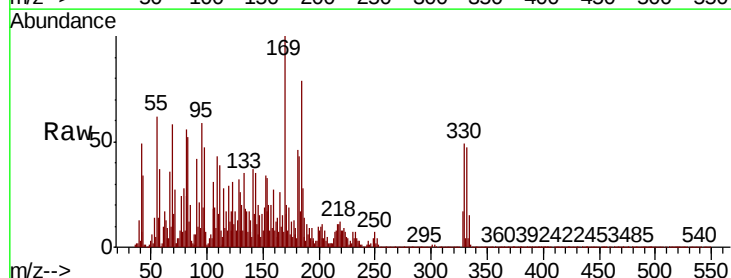
Manual Integrations
APPROVED

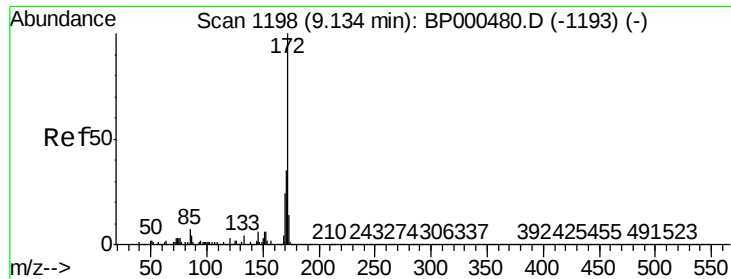
mohammad
10/8/2019 12:24:04 PM



#42
2,4,6-Tribromophenol
Concen: 47.196 ng
RT: 10.63 min Scan# 1452
Delta R.T. 0.02 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.1	115.7
141	74.2	26.0	39.0





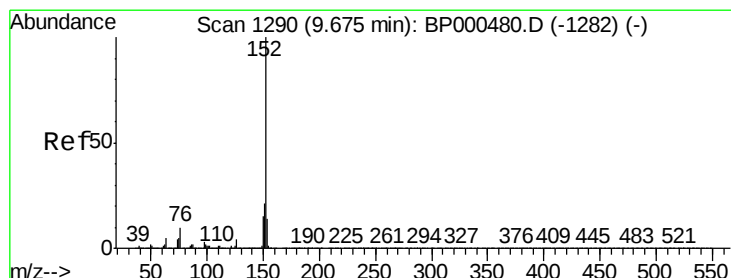
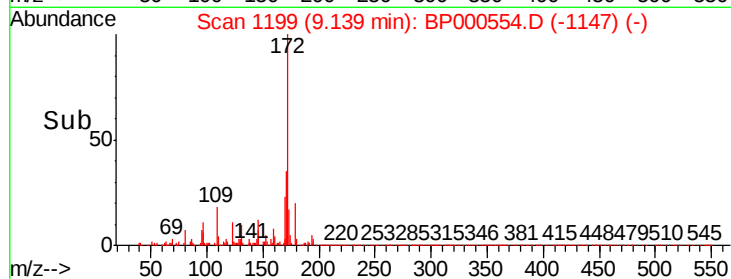
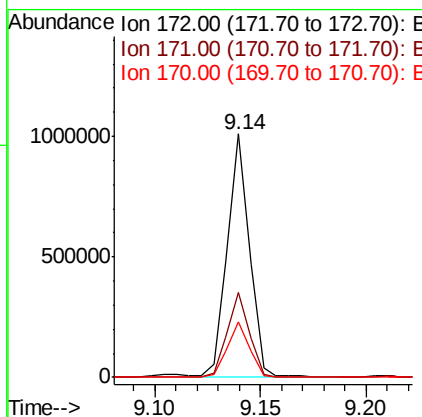
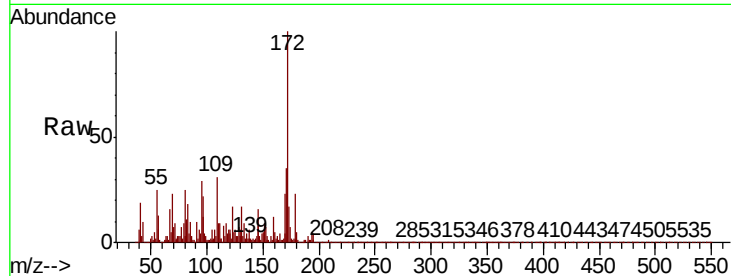
#45
2-Fluorobiphenyl
Concen: 37.530 ng
RT: 9.14 min Scan# 1199
Delta R.T. 0.01 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampled :
S-4(0-5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
172	100				
171	35.1	28.4	42.6		
170	23.0	19.1	28.7		

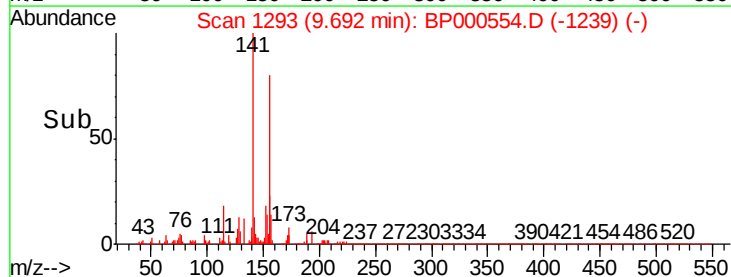
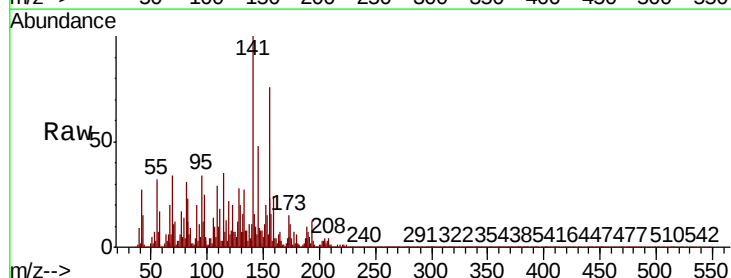
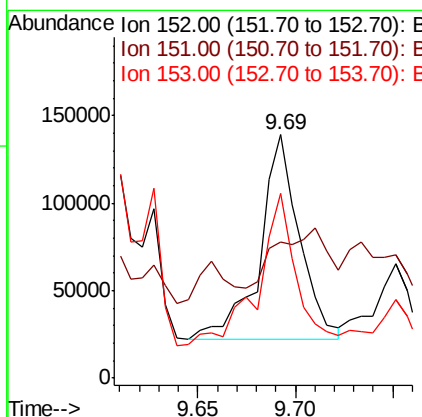
Manual Integrations
APPROVED

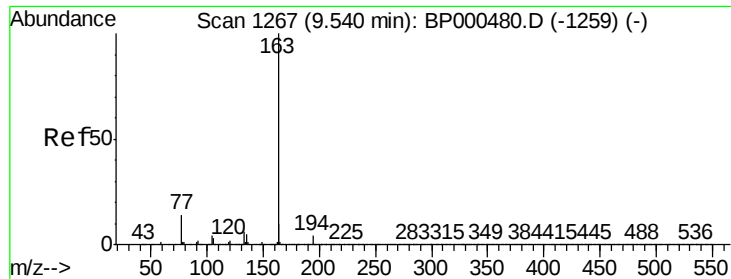
mohammad
10/8/2019 12:24:04 PM



#49
Acenaphthylene
Concen: 5.951 ng
RT: 9.69 min Scan# 1293
Delta R.T. 0.02 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100				
151	55.9	16.6	25.0#		
153	75.6	11.0	16.6#		





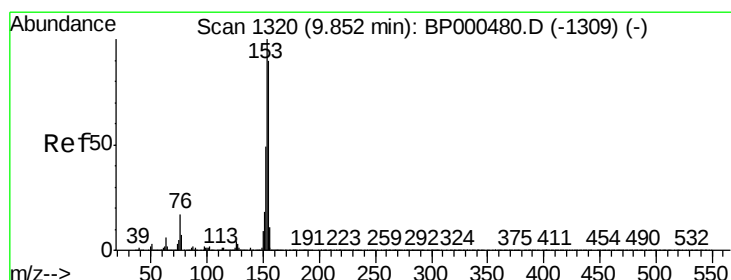
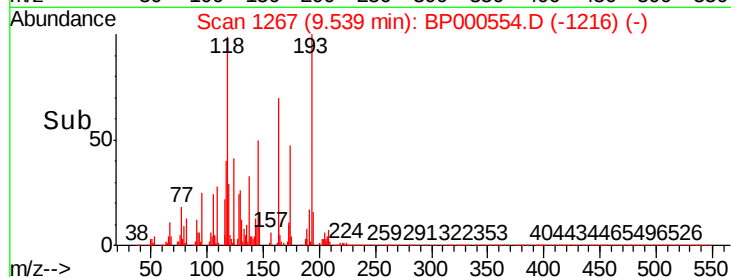
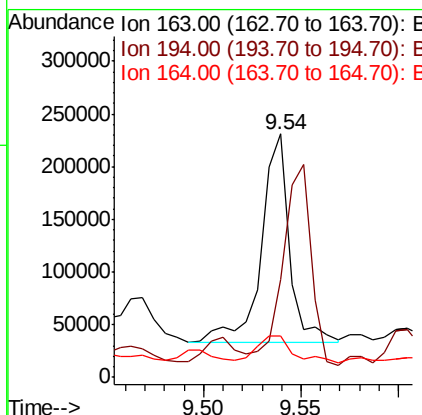
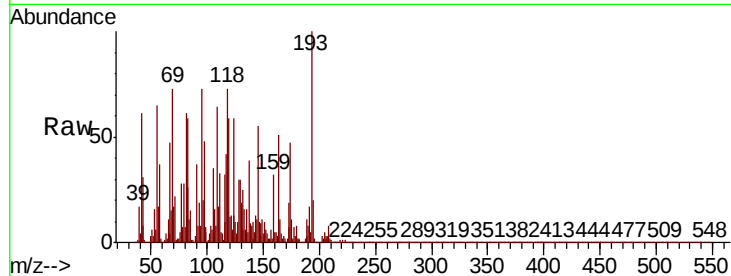
#50
Dimethylphthalate
Concen: 9.193 ng
RT: 9.54 min Scan# 1267
Delta R.T. -0.00 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampleId :
S-4(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	199554		
194	40.1	3.4	5.2#	
164	16.9	8.0	12.0#	

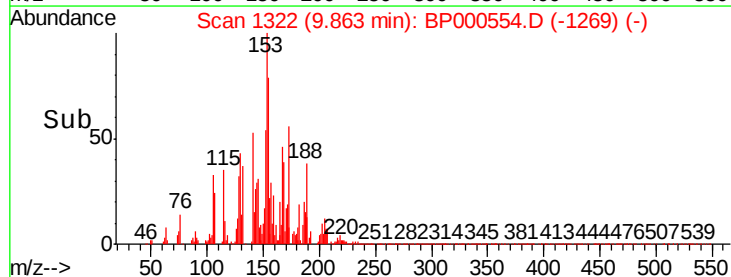
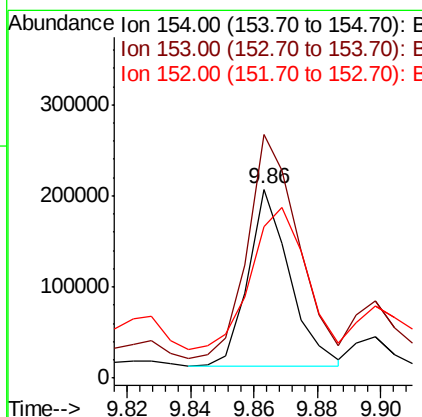
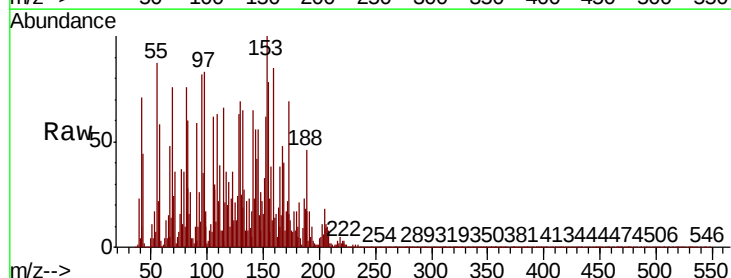
Manual Integrations
APPROVED

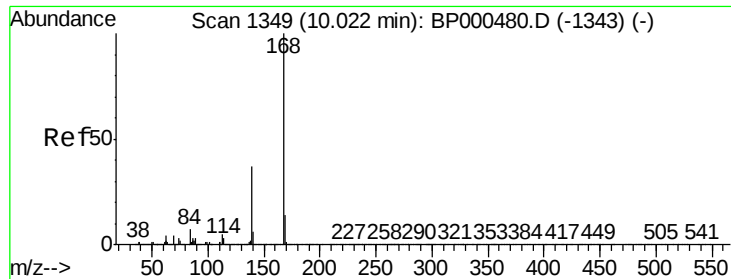
mohammad
10/8/2019 12:24:04 PM



#52
Acenaphthene
Concen: 10.645 ng
RT: 9.86 min Scan# 1322
Delta R.T. 0.01 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	177633		
153	128.9	89.4	134.0	
152	80.4	43.8	65.8#	





#55

Dibenzofuran

Concen: 5.228 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

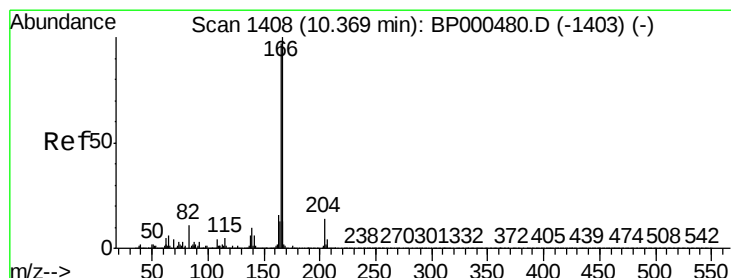
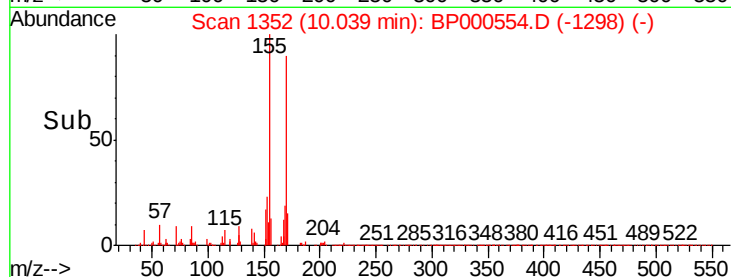
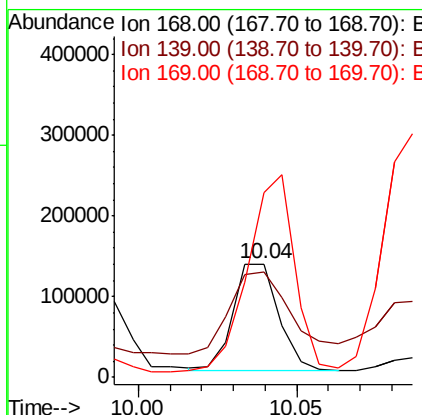
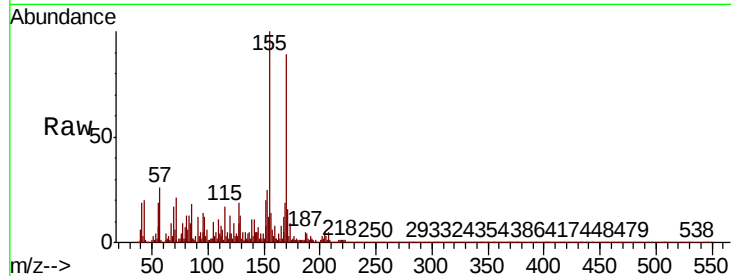
ClientSampleId :

S-4(0-5)

Tot Ion:	168	Resp:	130416
Ion Ratio	Lower	Upper	
168	100		
139	92.9	29.5	44.3#
169	163.3	11.1	16.7#

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#58

Fluorene

Concen: 24.826 ng

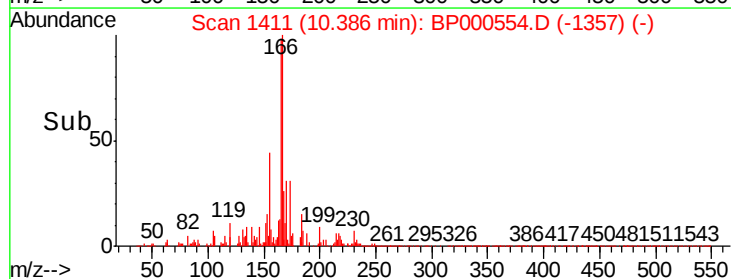
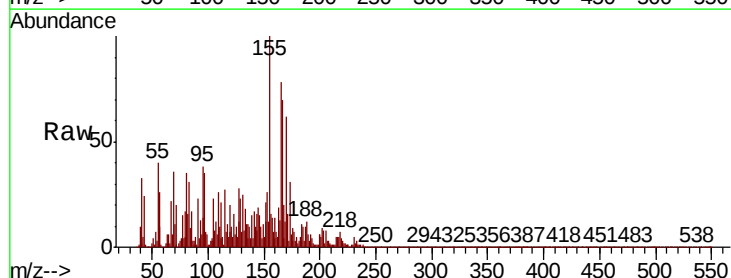
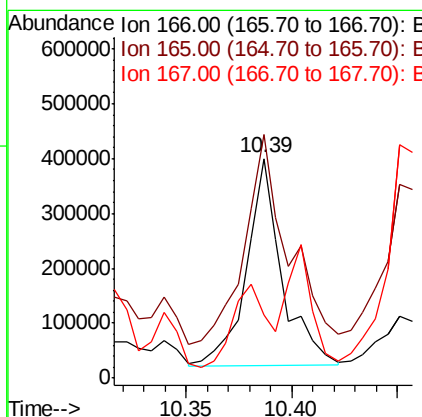
RT: 10.39 min Scan# 1411

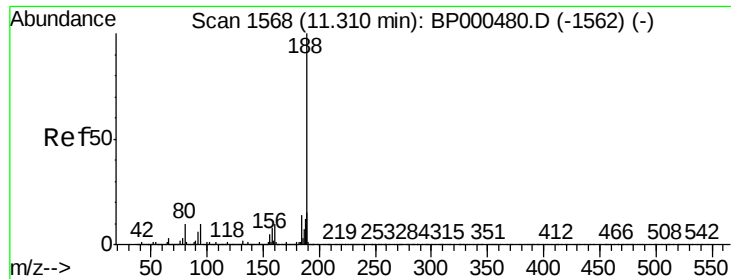
Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	166	Resp:	441348
Ion Ratio	Lower	Upper	
166	100		
165	110.8	77.3	115.9
167	29.0	10.6	16.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

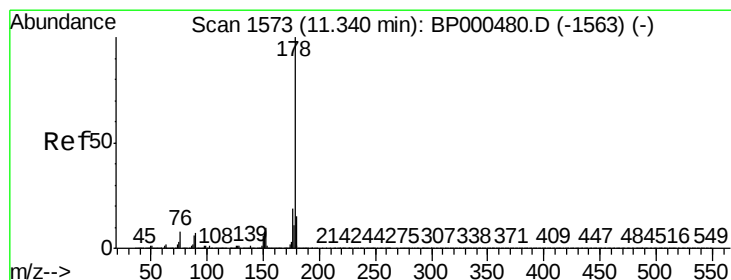
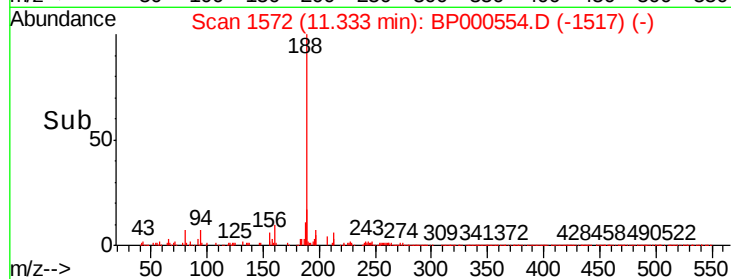
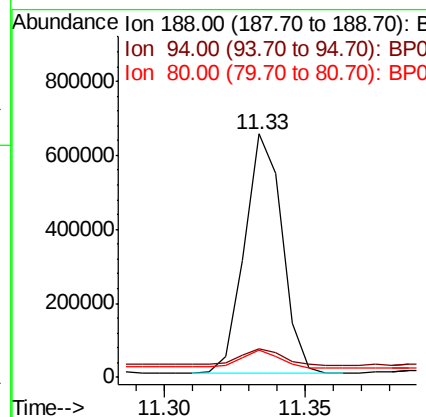
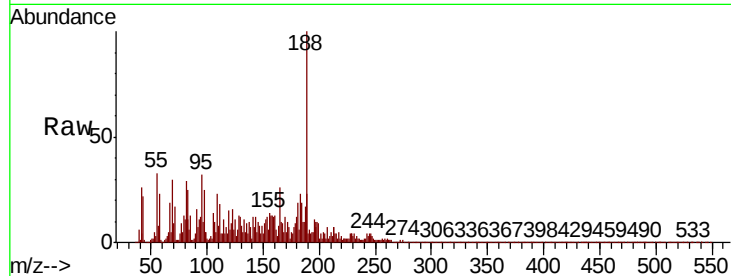
ClientSampleId :

S-4(0-5)

Tot Ion:	188	Resp:	594929
Ion Ratio	Lower	Upper	
188	100		
94	11.8	8.2	12.2
80	11.0	8.3	12.5

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#71

Phenanthrene

Concen: 33.411 ng

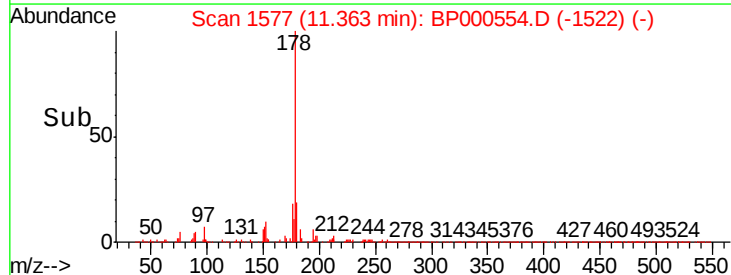
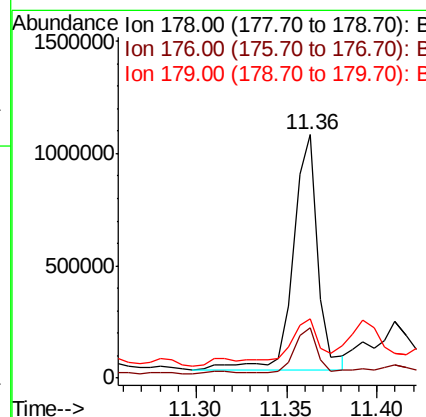
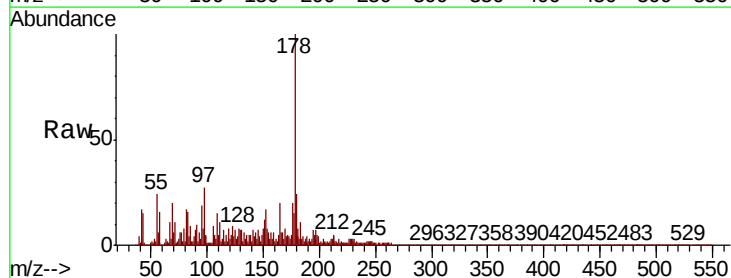
RT: 11.36 min Scan# 1577

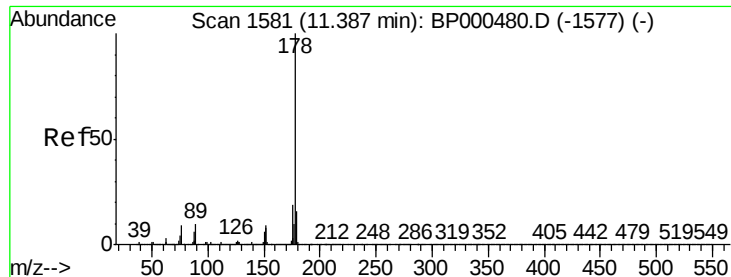
Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	178	Resp:	998282
Ion Ratio	Lower	Upper	
178	100		
176	20.5	15.4	23.2
179	24.2	12.2	18.4#





#72

Anthracene

Concen: 6.243 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

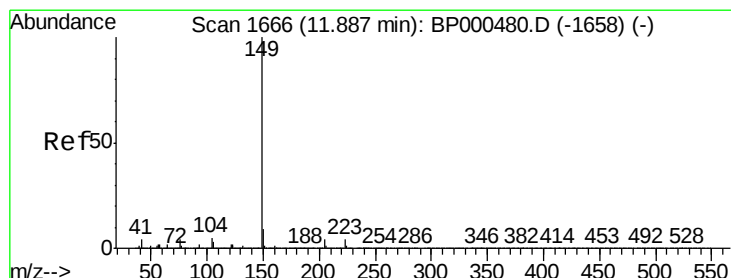
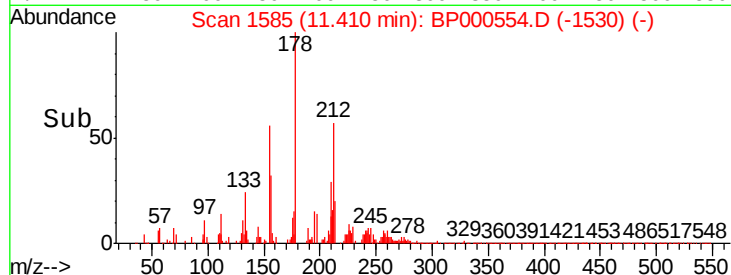
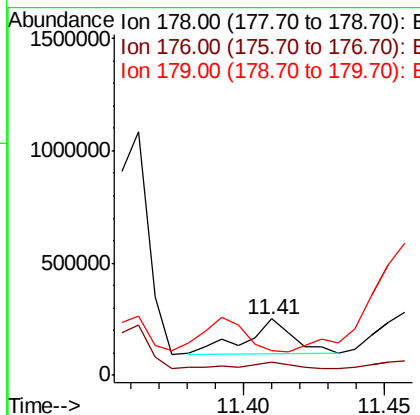
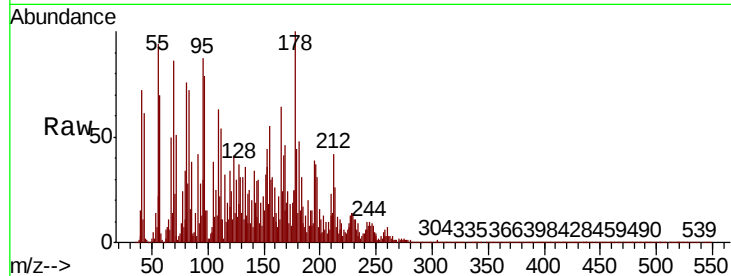
ClientSampleId :

S-4(0-5)

Tot Ion:	178	Resp:	184941
Ion Ratio	Lower	Upper	
178	100		
176	24.0	15.4	23.0#
179	44.4	12.6	19.0#

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#74

Di-n-butylphthalate

Concen: 3.088 ng m

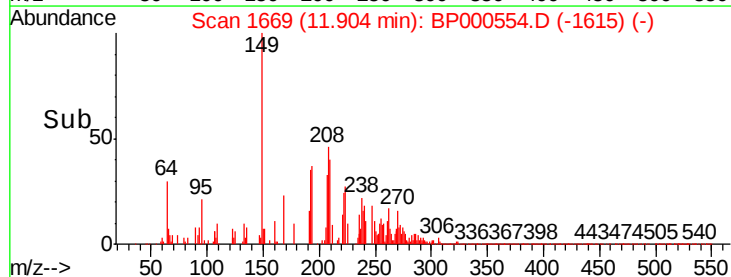
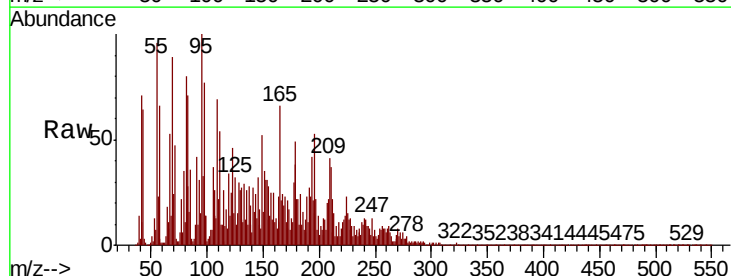
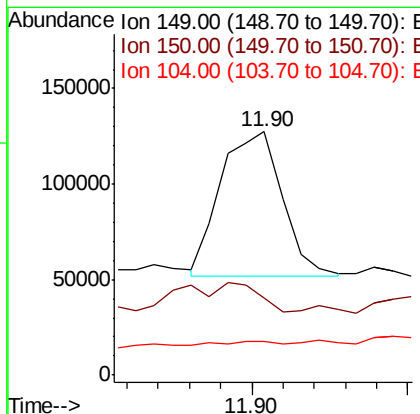
RT: 11.90 min Scan# 1669

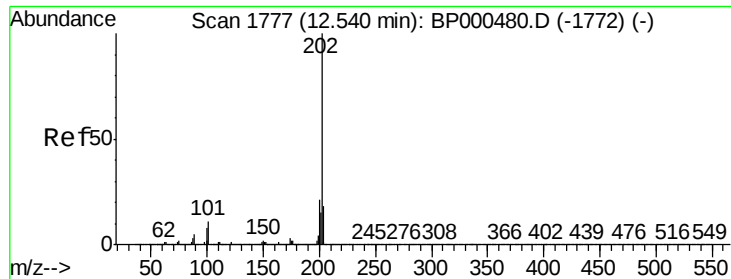
Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	149	Resp:	103296
Ion Ratio	Lower	Upper	
149	100		
150	31.5	7.4	11.2#
104	14.0	3.7	5.5#





#75

Fluoranthene

Concen: 9.711 ng

RT: 12.57 min Scan# 1782

Delta R.T. 0.03 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

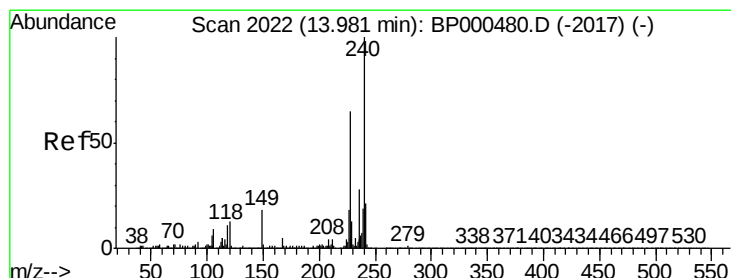
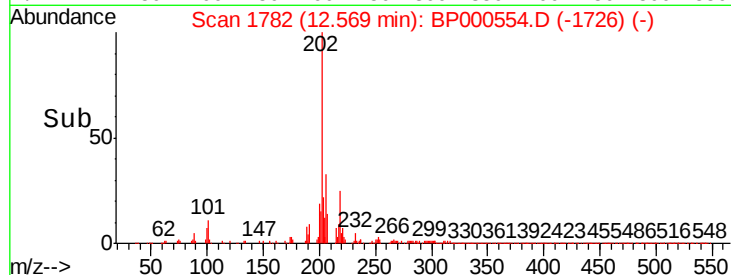
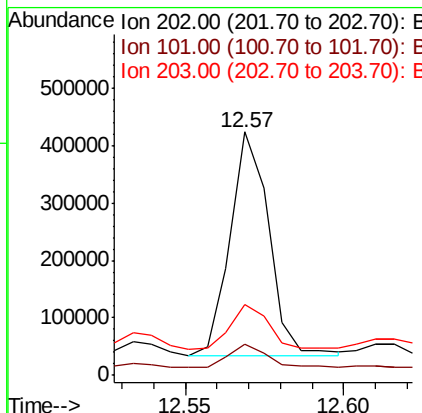
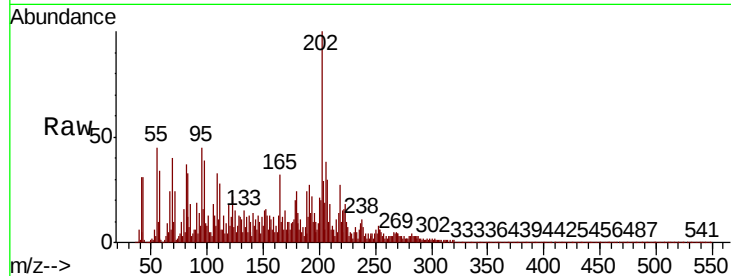
ClientSampleId :

S-4(0-5)

Tot Ion:	202	Resp:	325859
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	31.3
203	29.2	0.0	38.1

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#76

Chrysene-d12

Concen: 20.000 ng

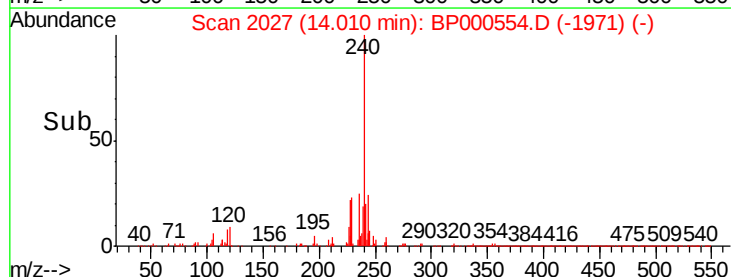
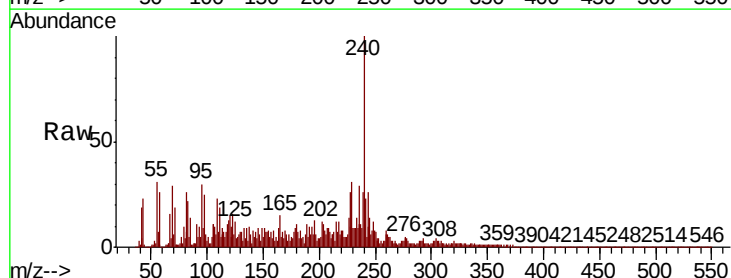
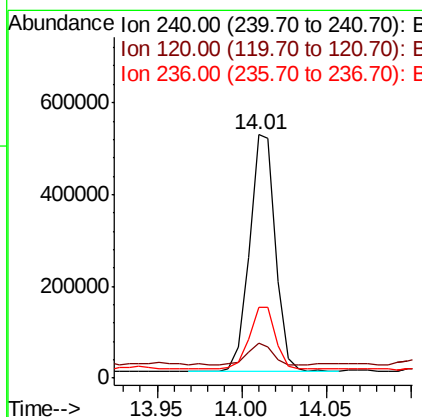
RT: 14.01 min Scan# 2027

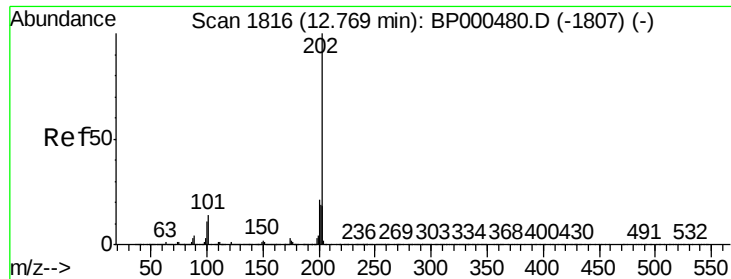
Delta R.T. 0.03 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	240	Resp:	556516
Ion Ratio	Lower	Upper	
240	100		
120	14.6	10.1	15.1
236	29.2	22.7	34.1





#78

Pvrene

Concen: 27.018 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.03 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

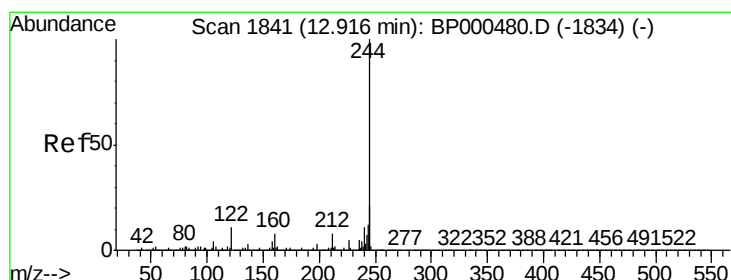
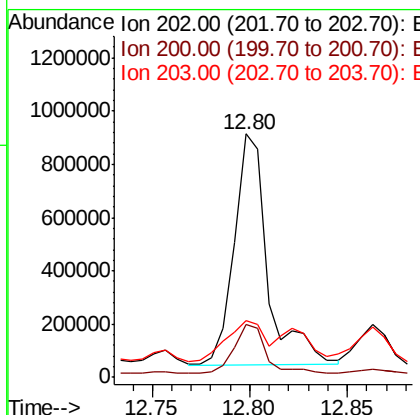
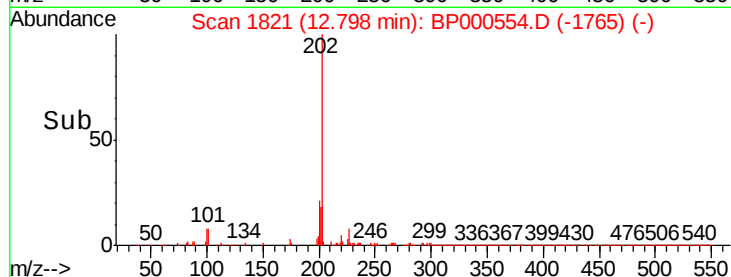
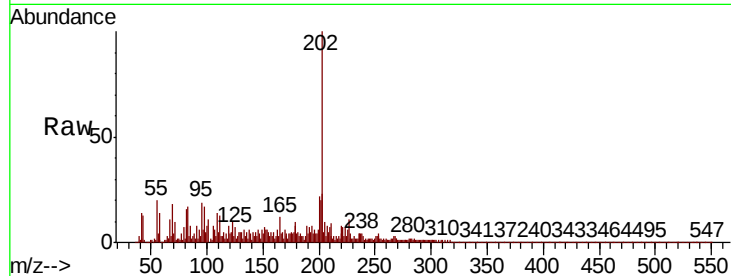
ClientSampleId :

S-4(0-5)

Tot Ion:	202	Resp:	1037011
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.1	25.7
203	23.3	14.6	21.8#

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#79

Terphenyl-d14

Concen: 27.458 ng

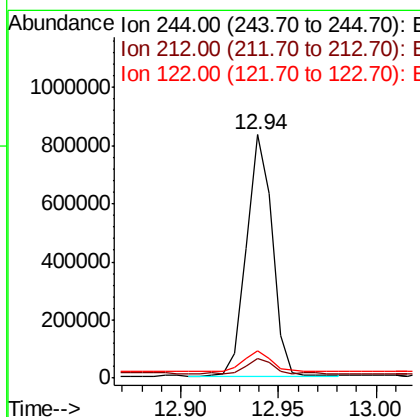
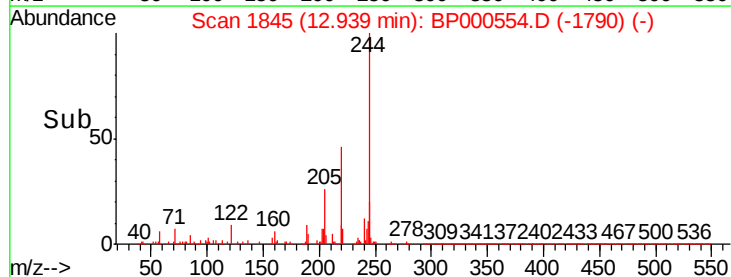
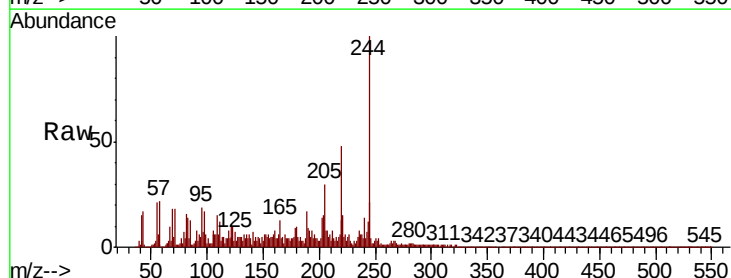
RT: 12.94 min Scan# 1845

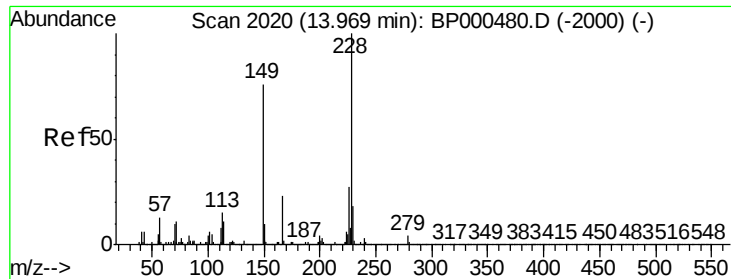
Delta R.T. 0.02 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	244	Resp:	754719
Ion Ratio	Lower	Upper	
244	100		
212	8.1	6.0	9.0
122	11.3	8.9	13.3





#81

Benzo(a)anthracene

Concen: 7.957 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.03 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Instrument :

BNA_P

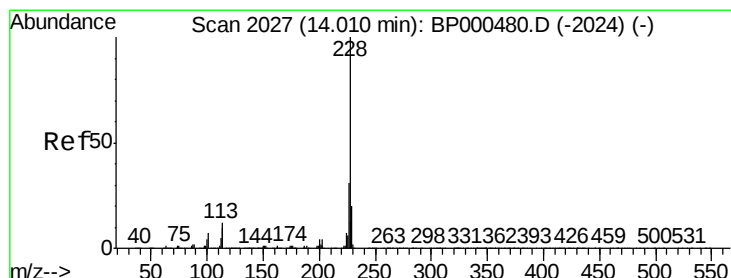
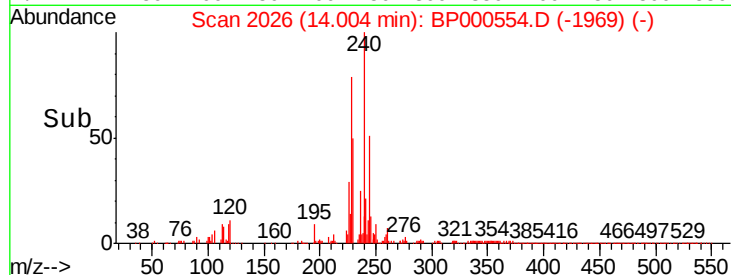
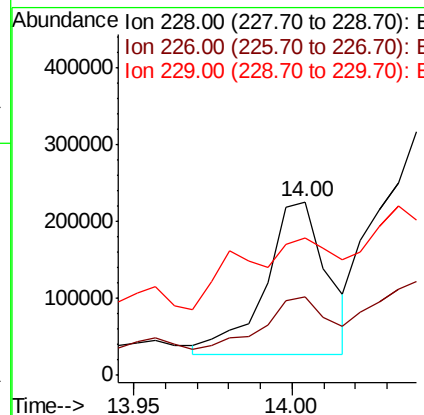
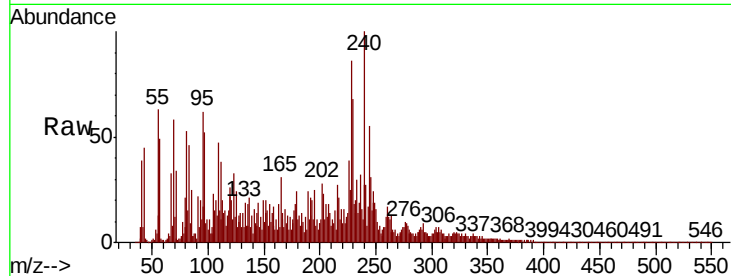
ClientSampled :

S-4(0-5)

Tot Ion:	228	Resp:	270182
Ion Ratio	Lower	Upper	
228	100		
226	45.3	21.4	32.2#
229	78.7	14.7	22.1#

Manual Integrations
APPROVED

mohammad
10/8/2019 12:24:04 PM



#83

Chrysene

Concen: 10.530 ng

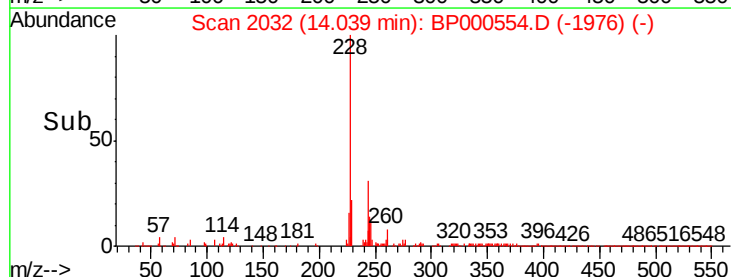
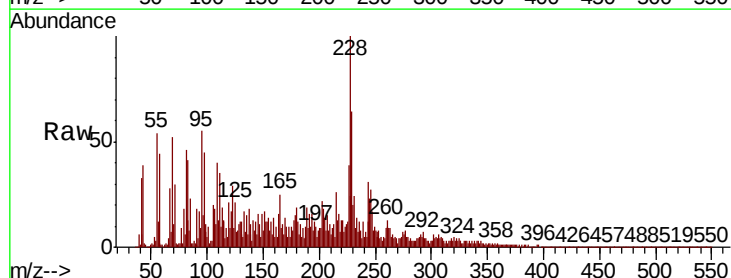
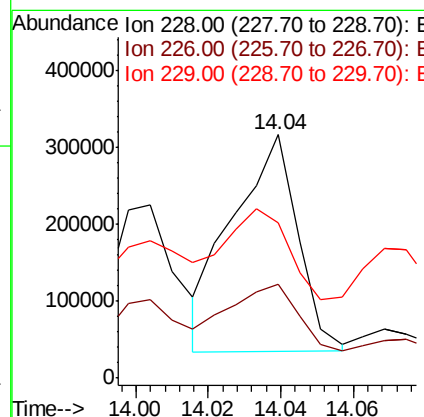
RT: 14.04 min Scan# 2032

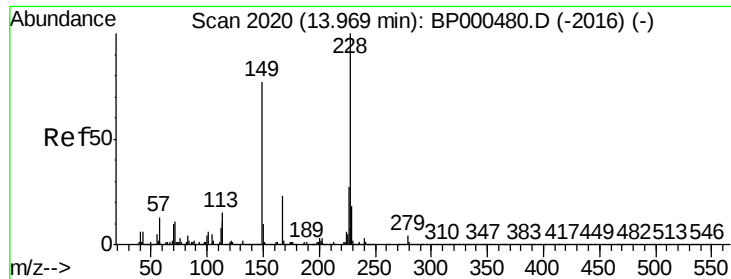
Delta R.T. 0.03 min

Lab File: BP000554.D

Acq: 07 Oct 2019 19:44

Tgt Ion:	228	Resp:	350926
Ion Ratio	Lower	Upper	
228	100		
226	38.8	24.7	37.1#
229	64.0	16.3	24.5#





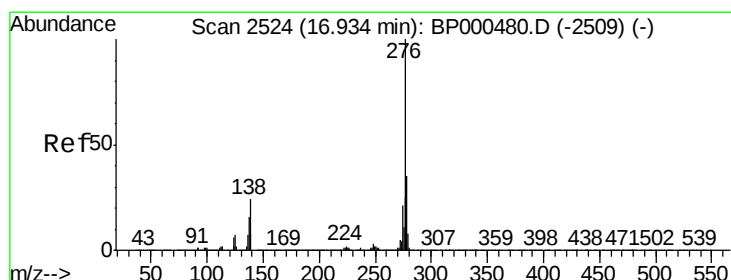
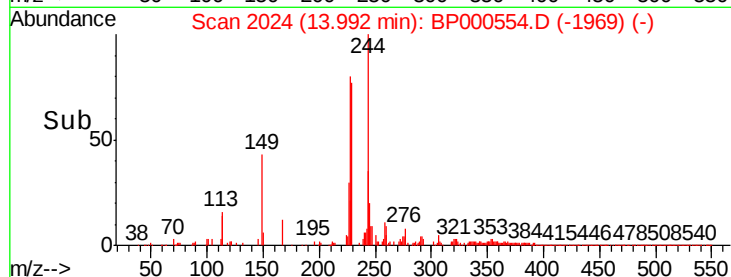
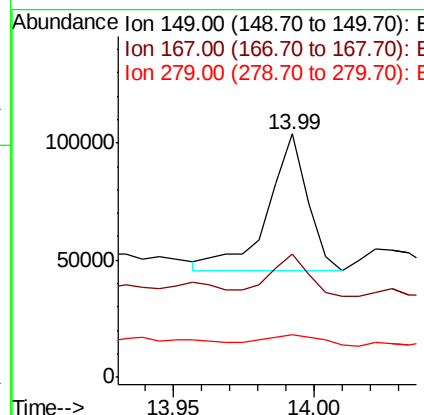
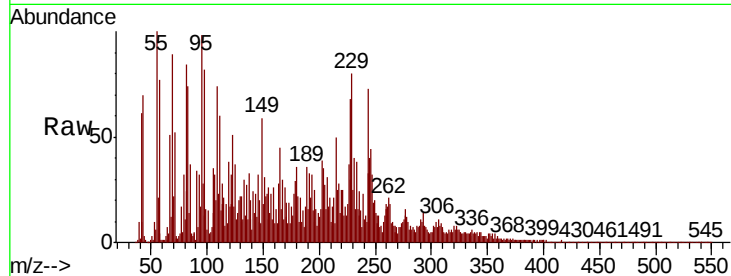
#84
Bis(2-ethylhexyl)phthalate
Concen: 2.695 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.02 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampled :
S-4(0-5)

Tot Ion	Ratio	Lower	Upper
149	100		
167	50.4	23.6	35.4#
279	17.6	3.9	5.9#

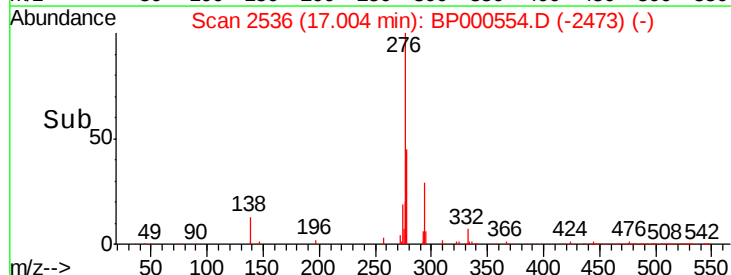
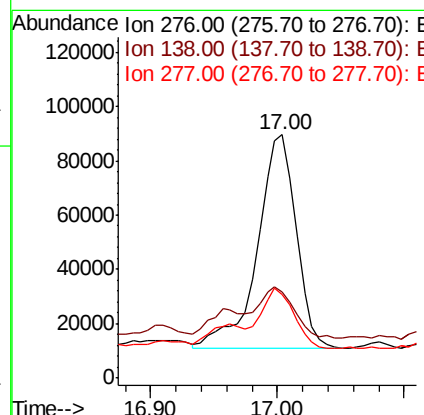
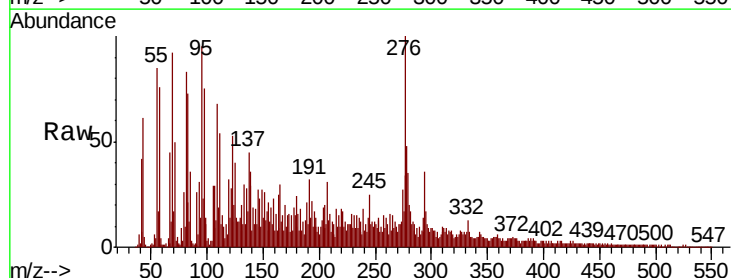
Manual Integrations
APPROVED

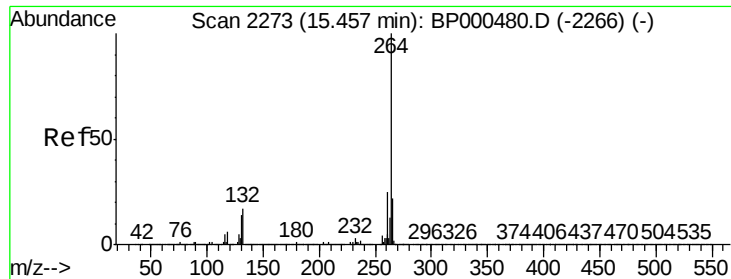
mohammad
10/8/2019 12:24:04 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 4.010 ng
RT: 17.00 min Scan# 2536
Delta R.T. 0.07 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.5	20.9	31.3
277	24.3	20.6	30.8





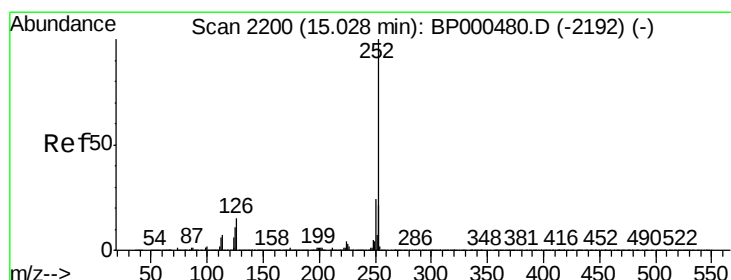
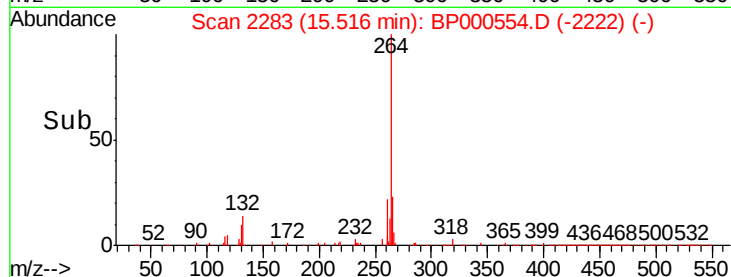
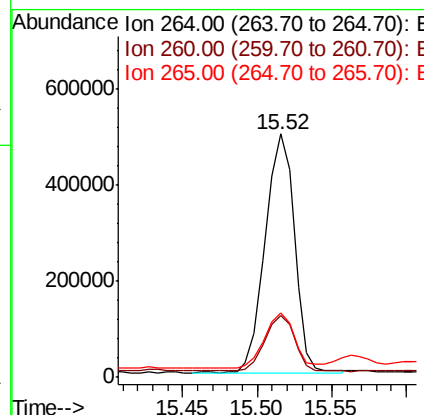
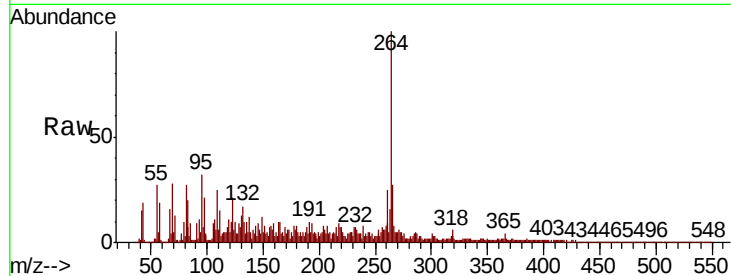
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. 0.06 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampleId :
S-4(0-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.3	30.5
265	26.6	18.0	27.0

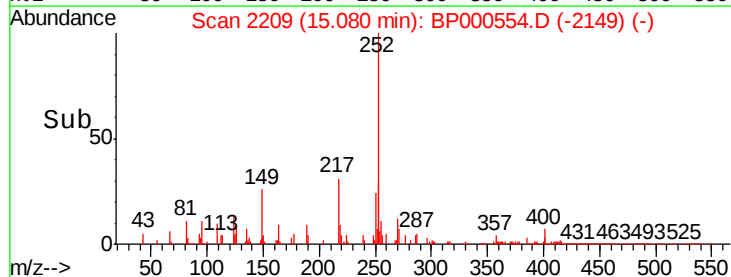
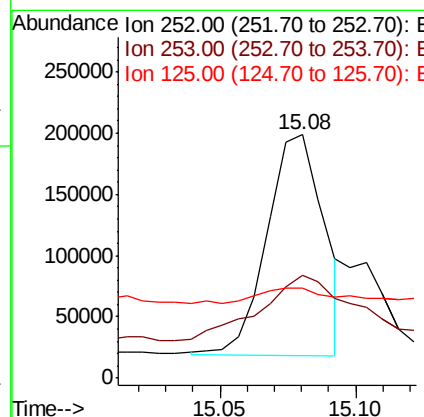
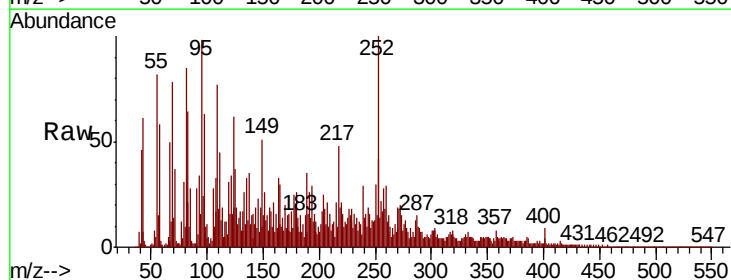
Manual Integrations
APPROVED

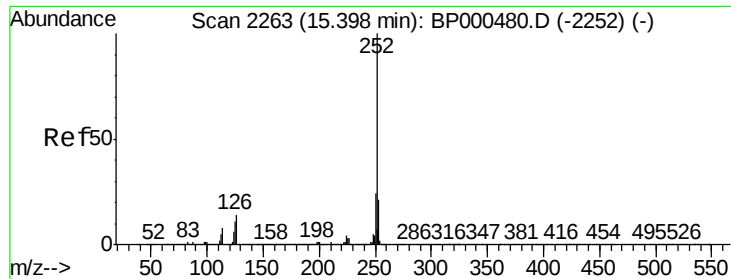
mohammad
10/8/2019 12:24:04 PM



#88
Benzo(b)fluoranthene
Concen: 6.909 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.05 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	42.4	17.0	25.4#
125	36.9	8.9	13.3#





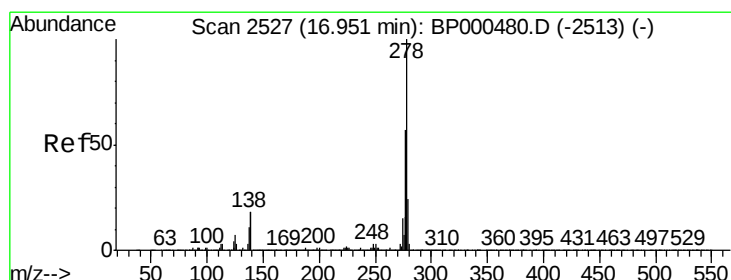
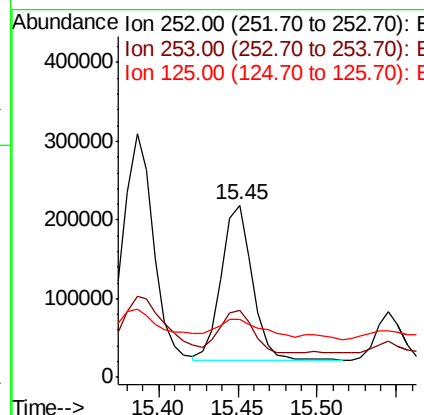
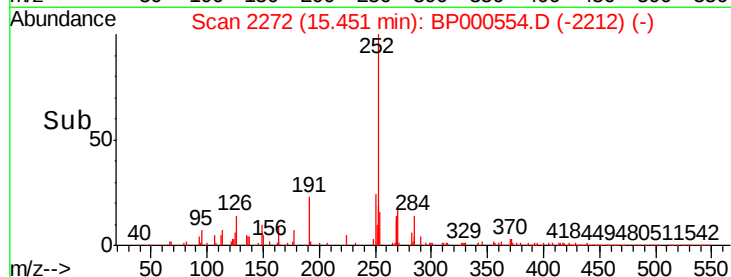
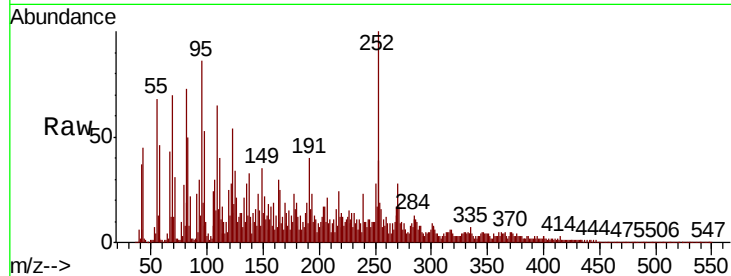
#90
Benzo(a)pyrene
Concen: 7.515 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.05 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Instrument :
BNA_P
ClientSampleId :
S-4(0-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	39.1	17.0	25.6#
125	33.9	8.4	12.6#

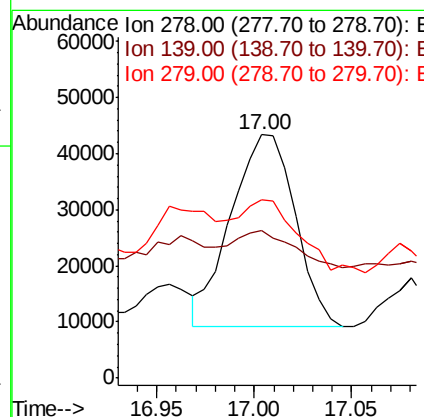
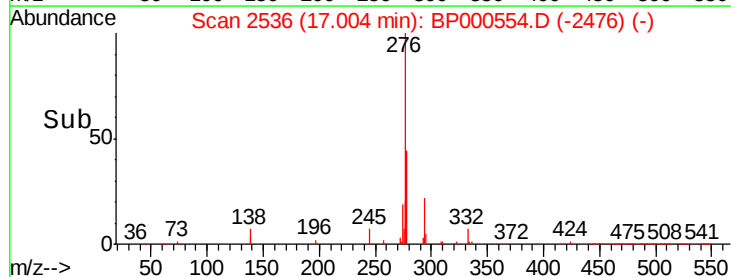
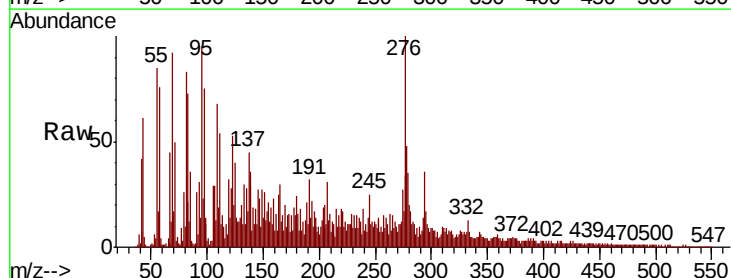
Manual Integrations
APPROVED

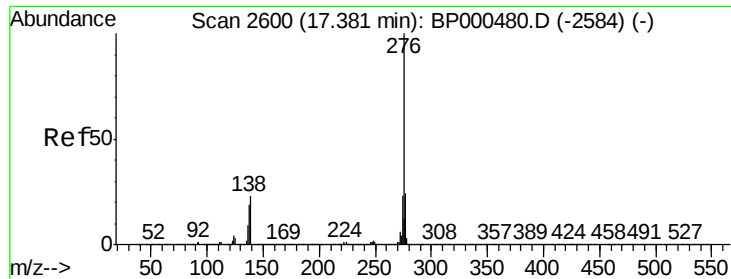
mohammad
10/8/2019 12:24:04 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.256 ng
RT: 17.00 min Scan# 2536
Delta R.T. 0.05 min
Lab File: BP000554.D
Acq: 07 Oct 2019 19:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	60.6	14.1	21.1#
279	73.0	19.5	29.3#





#92
 Benzo(a,h,i)perylene
 Concen: 8.229 ng
 RT: 17.45 min Scan# 2612
 Delta R.T. 0.07 min
 Lab File: BP000554.D
 Acq: 07 Oct 2019 19:44

Instrument :
 BNA_P
 ClientSampleId :
 S-4(0-5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
277	29.8	19.4	29.2#		
138	28.7	18.5	27.7#		

Manual Integrations
 APPROVED

mohammad
 10/8/2019 12:24:04 PM

