

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012920\
 Data File : BM024657.D
 Acq On : 29 Jan 2020 19:17
 Operator : CG/JU
 Sample : L1274-02 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BORING-B2-SAMPLE-S1

Manual Integrations
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mohammad
 1/30/2020 10:19:13 AM

Quant Time: Jan 30 04:08:07 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 23 14:57:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	446177	20.00	ng	0.00
21) Naphthalene-d8	10.20	136	1674858	20.00	ng	0.00
39) Acenaphthene-d10	14.09	164	968661	20.00	ng	0.00
64) Phenanthrene-d10	16.85	188	1699435	20.00	ng	0.00
76) Chrysene-d12	21.06	240	1394403	20.00	ng	0.00
87) Perylene-d12	23.18	264	1666389	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	294032	12.53	ng	0.00
7) Phenol-d6	6.65	99	377836	11.69	ng	0.00
23) Nitrobenzene-d5	8.58	82	241742	7.08	ng	0.00
42) 2,4,6-Tribromophenol	15.59	330	162032	10.28	ng	0.00
45) 2-Fluorobiphenyl	12.70	172	674296	9.46	ng	0.00
79) Terphenyl-d14	19.50	244	747334	10.01	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	11.88	142	228642	3.502	ng	97
38) 1-Methylnaphthalene	12.10	142	301014	4.847	ng	99
49) Acenaphthylene	13.81	152	1181520	13.336	ng	98
52) Acenaphthene	14.16	154	489824	8.910	ng	98
55) Dibenzofuran	14.50	168	375631	4.190	ng	# 95
58) Fluorene	15.15	166	978205	12.983	ng	100
71) Phenanthrene	16.89	178	7287371	79.187	ng	98
72) Anthracene	16.98	178	2574363	28.589	ng	99
73) Carbazole	17.25	167	349834	4.268	ng	99
75) Fluoranthene	18.92	202	7646153	66.570	ng	98
78) Pyrene	19.29	202	9681682	105.322	ng	98
81) Benzo(a)anthracene	21.04	228	4317834m	44.615	ng	
83) Chrysene	21.10	228	4114087	44.550	ng	97
86) Indeno(1,2,3-cd)pyrene	25.25	276	1556418	15.463	ng	96
88) Benzo(b)fluoranthene	22.56	252	3344926m	30.949	ng	
89) Benzo(k)fluoranthene	22.59	252	967923m	9.175	ng	
90) Benzo(a)pyrene	23.09	252	3144876	32.005	ng	98
91) Dibenzo(a,h)anthracene	25.26	278	530534	5.689	ng	# 87
92) Benzo(a,h,i)perylene	25.89	276	1764556	20.837	ng	97

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

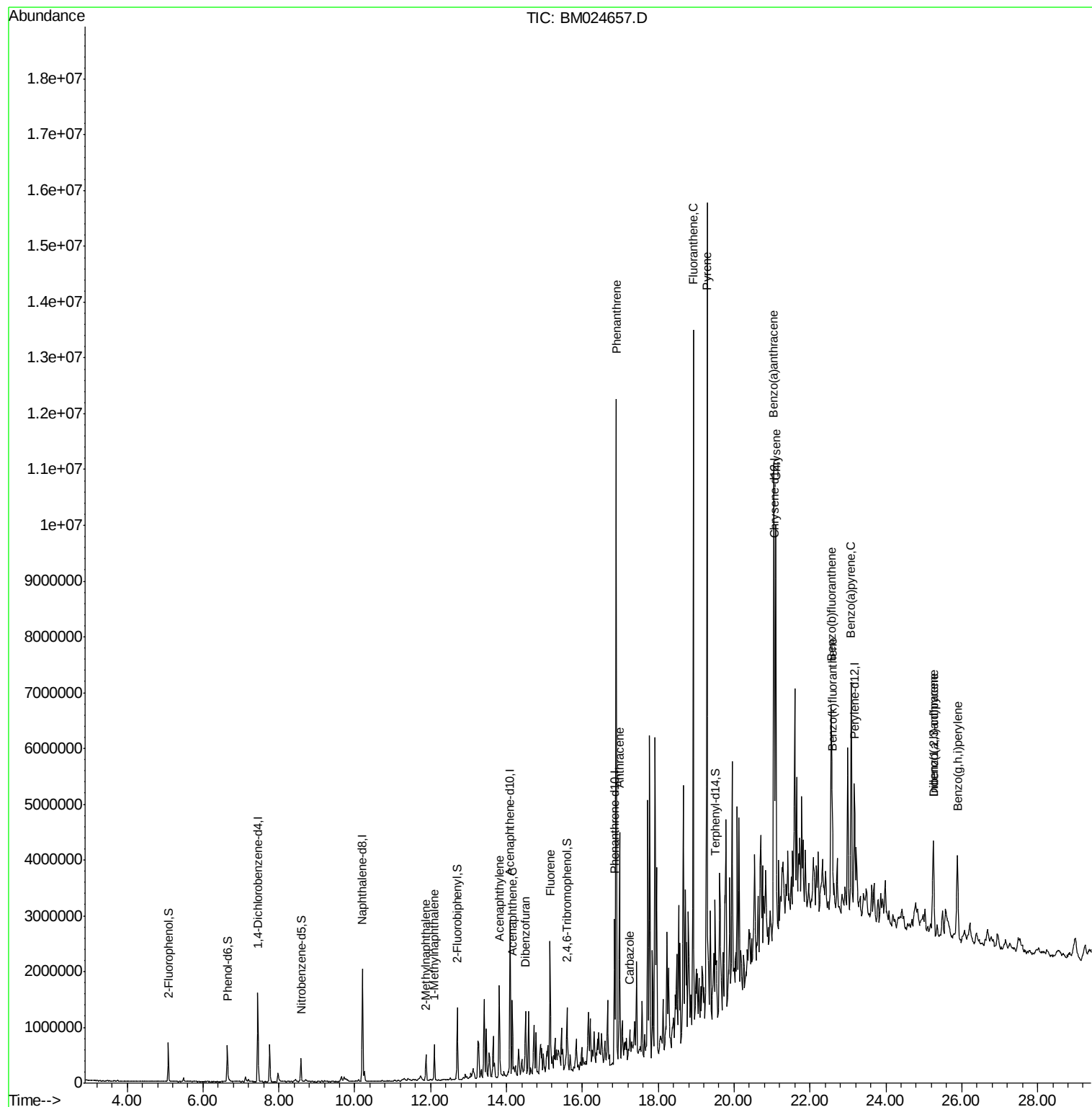
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012920\
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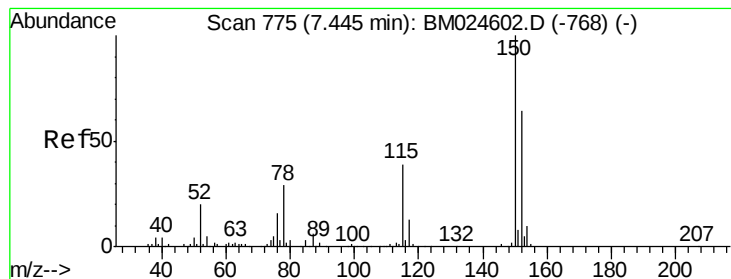
Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

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Quant Time: Jan 30 04:08:07 2020
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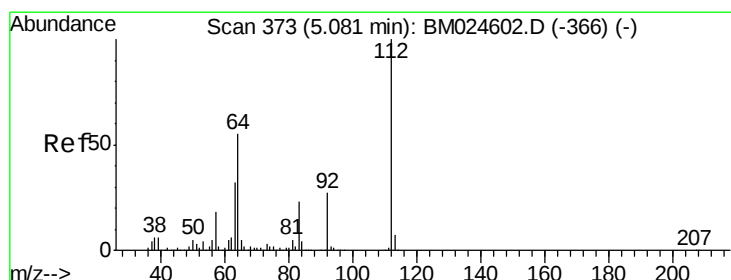
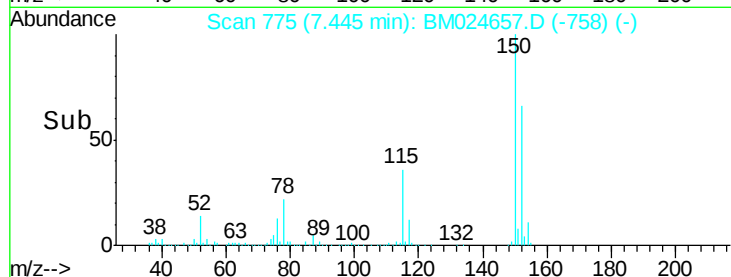
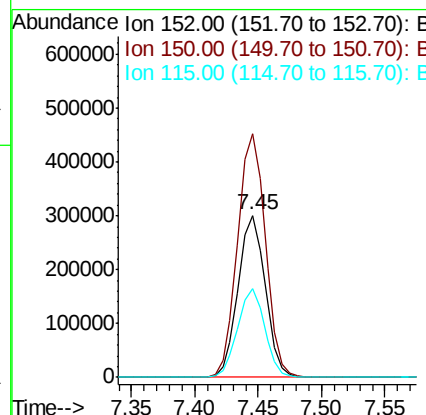
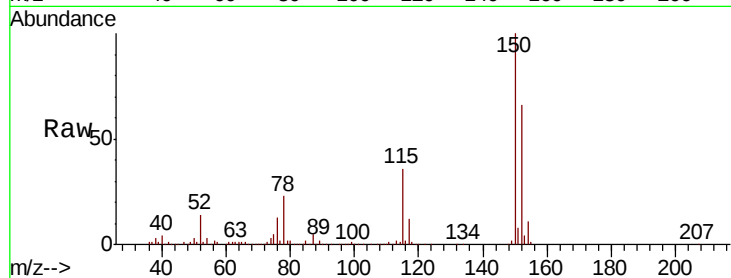
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.45 min Scan# 775
 Delta R.T. -0.00 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Instrument :
 BNA_M
 ClientSampleId :
 BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.6	124.2	186.4
115	54.8	48.6	72.8

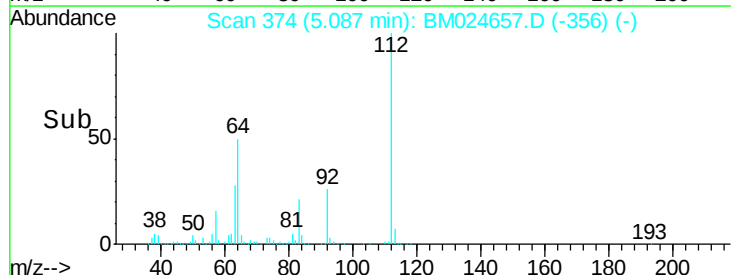
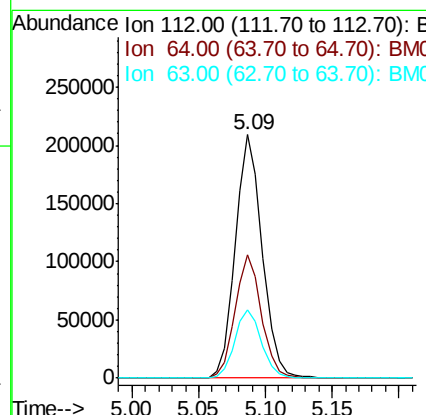
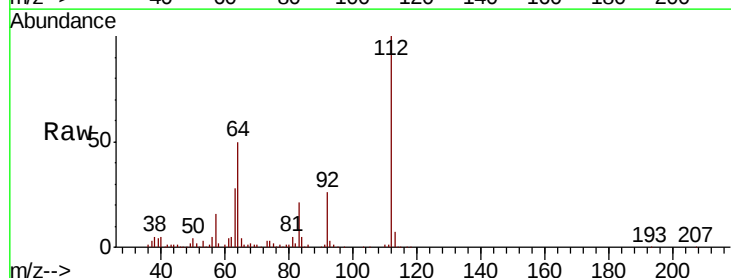
Manual Integrations
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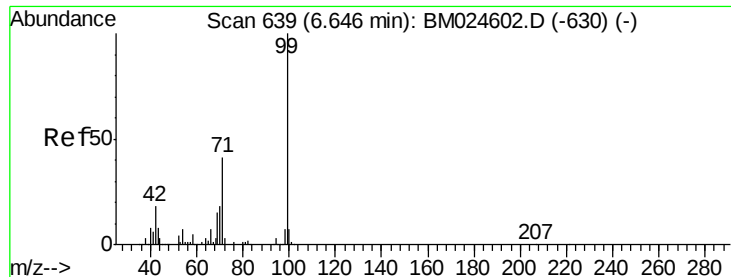
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#5
 2-Fluorophenol
 Concen: 12.533 ng
 RT: 5.09 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.4	44.2	66.4
63	28.1	25.9	38.9





#7

Phenol-d6

Concen: 11.691 ng

RT: 6.65 min Scan# 639

Delta R.T. -0.00 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

Instrument :

BNA_M

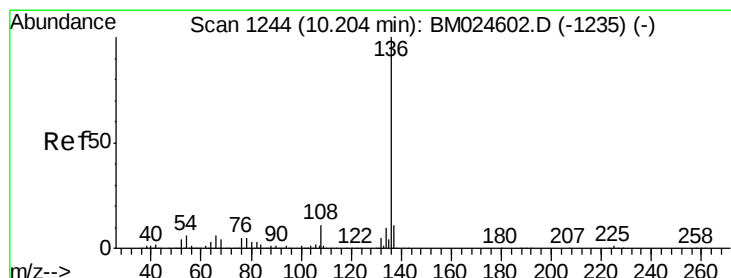
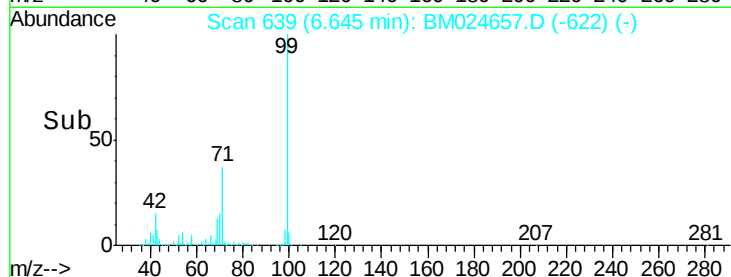
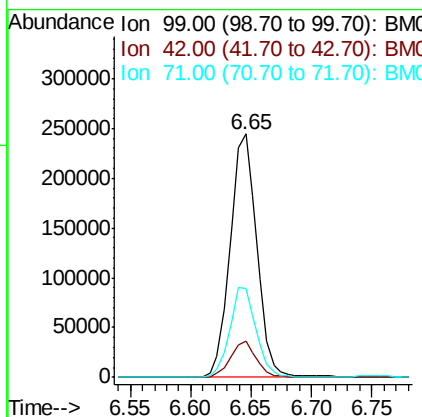
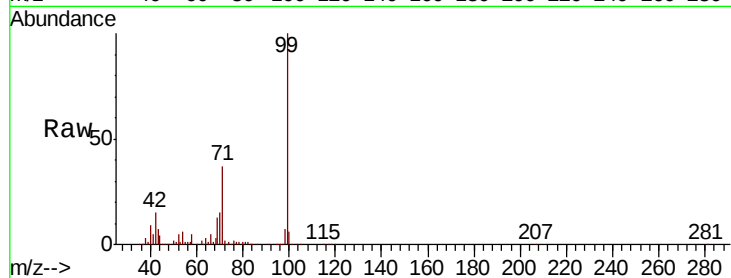
ClientSampleId :

BORING-B2-SAMPLE-S1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		377836		
42	14.8	14.1	21.1		
71	36.5	33.0	49.6		

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#21

Naphthalene-d8

Concen: 20.000 ng

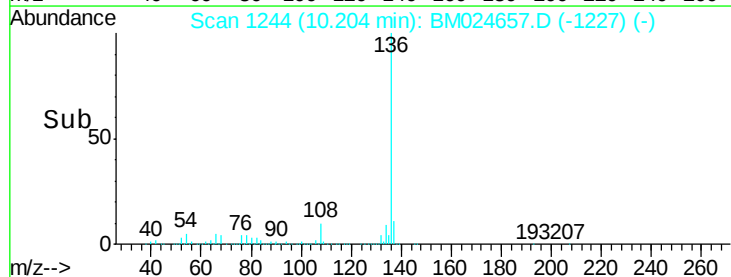
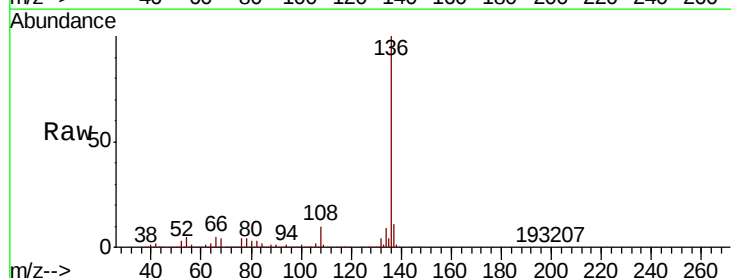
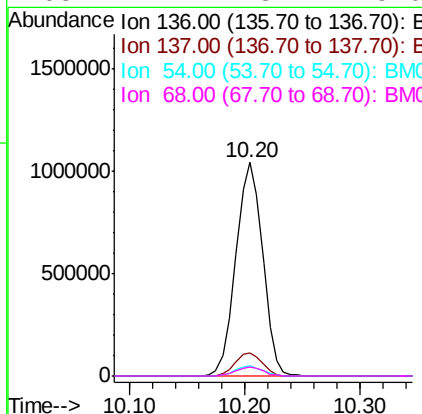
RT: 10.20 min Scan# 1244

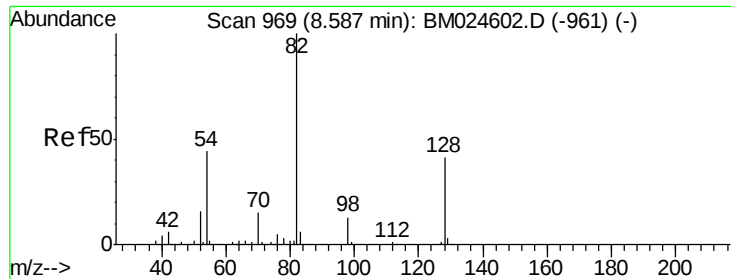
Delta R.T. -0.00 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		1674858		
137	11.0	8.6	13.0		
54	4.9	4.5	6.7		
68	4.4	3.4	5.0		





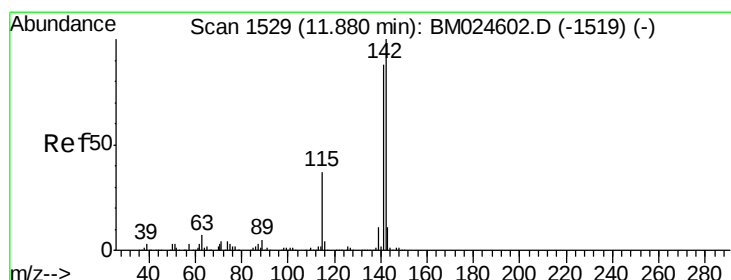
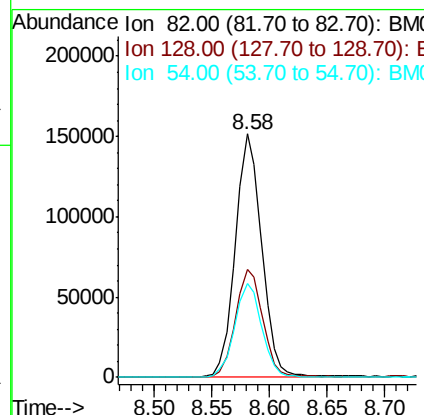
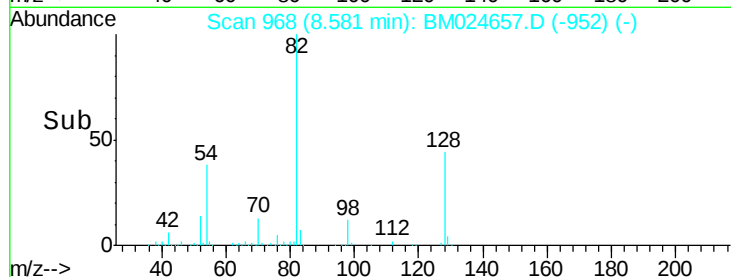
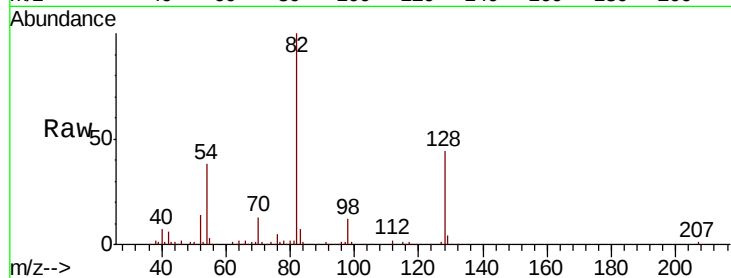
#23
 Nitrobenzene-d5
 Concen: 7.078 ng
 RT: 8.58 min Scan# 968
 Delta R.T. -0.01 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Instrument :
 BNA_M
 ClientSampleId :
 BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Resp	Lower	Upper
82	100	241742		
128	44.3	32.6	48.8	
54	38.5	34.8	52.2	

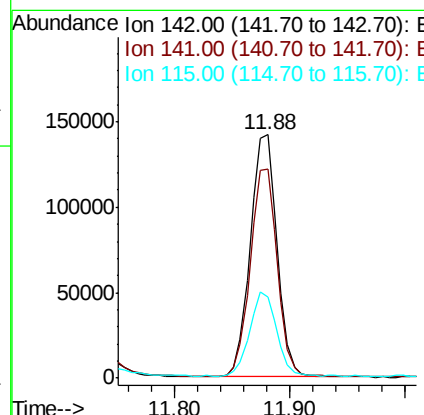
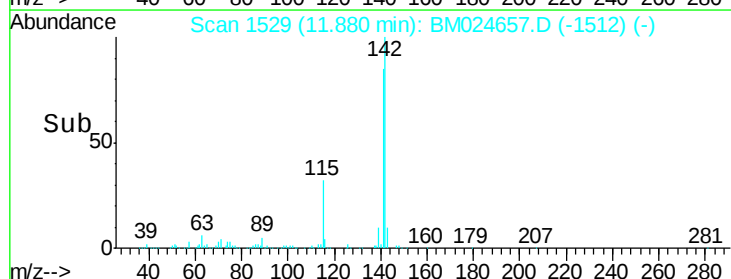
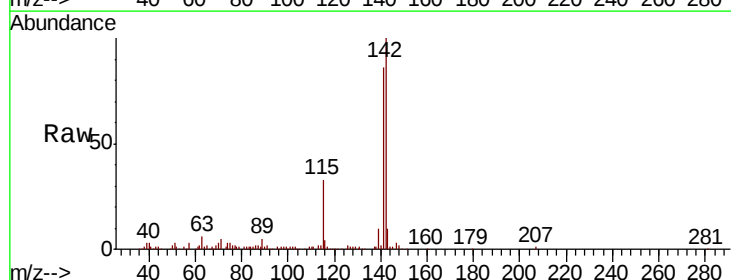
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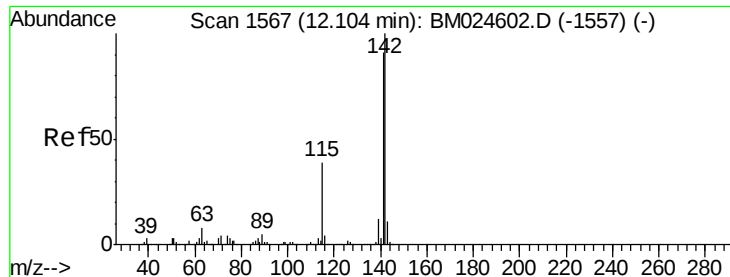
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#37
 2-Methylnaphthalene
 Concen: 3.502 ng
 RT: 11.88 min Scan# 1529
 Delta R.T. -0.00 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	228642		
141	85.8	70.2	105.2	
115	33.2	29.7	44.5	





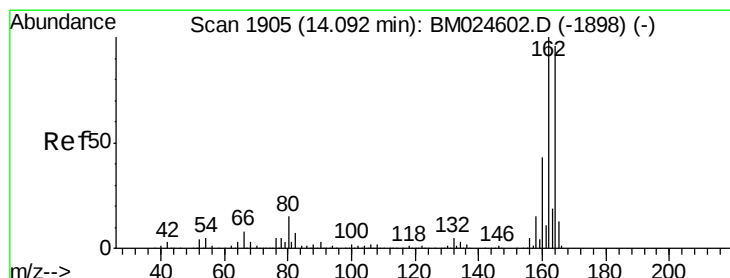
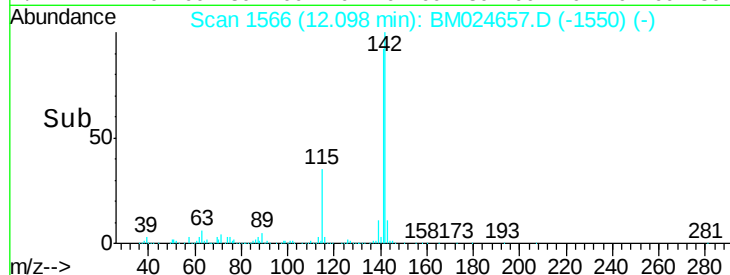
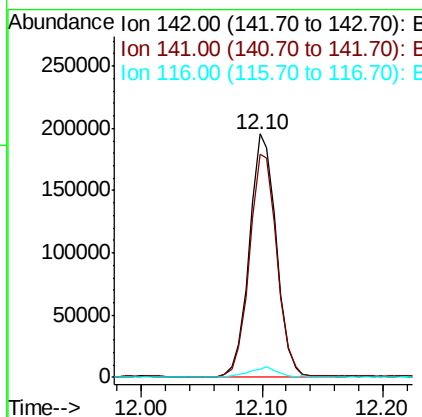
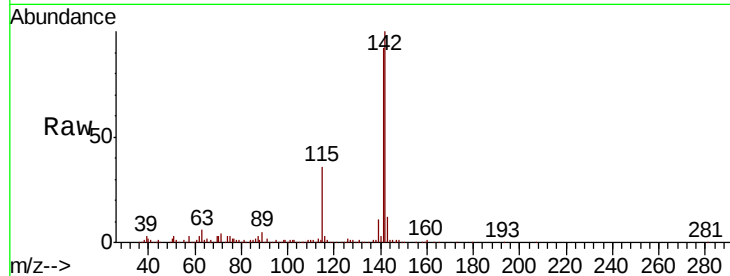
#38
1-Methylnaphthalene
Concen: 4.847 ng
RT: 12.10 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.8	72.8	109.2
116	3.4	3.2	4.8

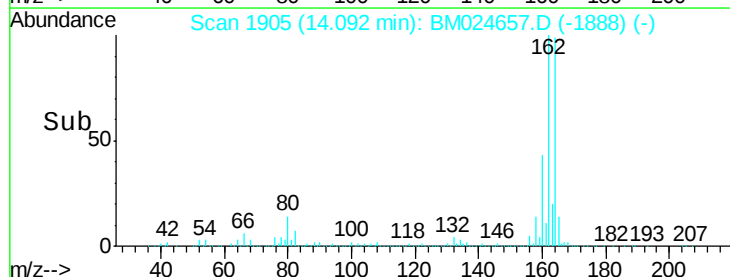
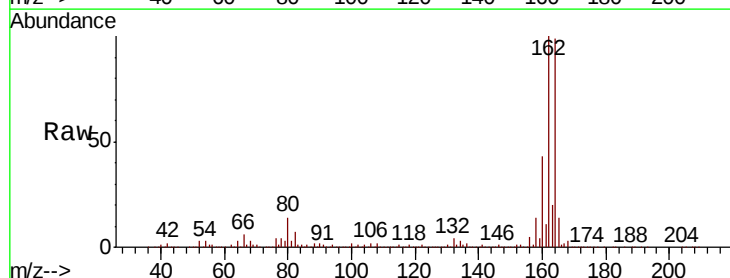
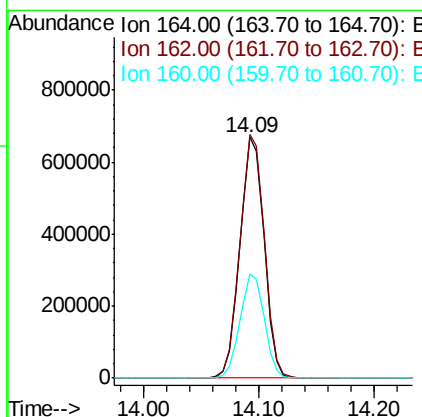
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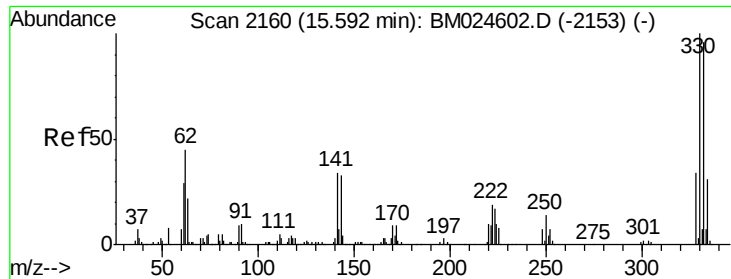
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.09 min Scan# 1905
Delta R.T. -0.00 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.9	124.3
160	43.4	35.5	53.3





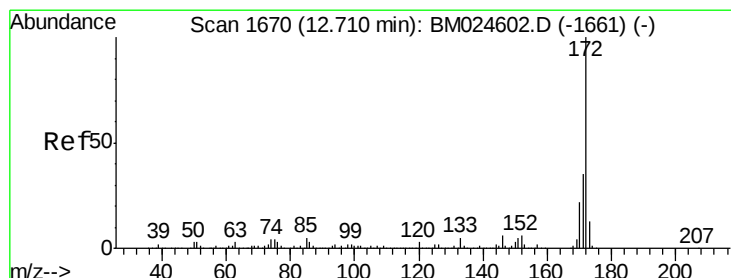
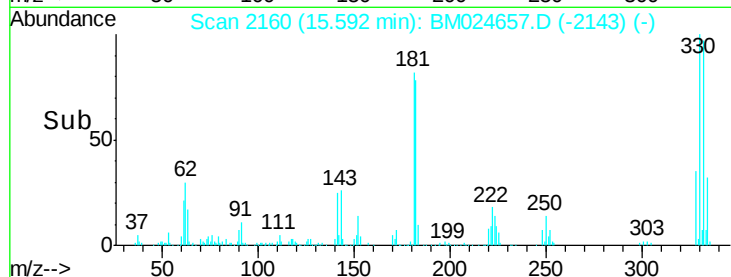
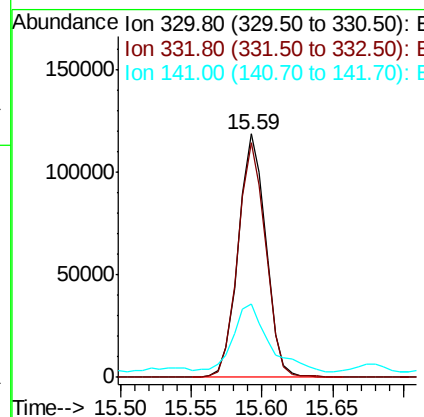
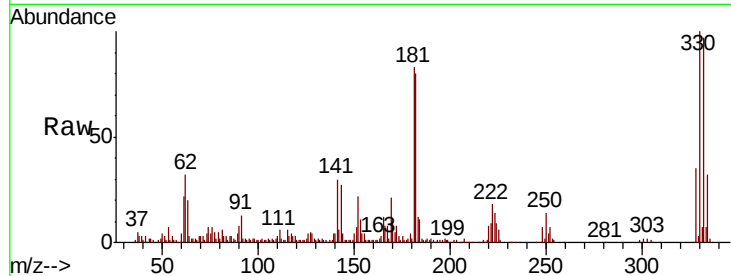
#42
 2,4,6-Tribromophenol
 Concen: 10.283 ng
 RT: 15.59 min Scan# 2160
 Delta R.T. -0.00 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Instrument :
 BNA_M
 ClientSampleId :
 BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.2	115.8
141	36.4	26.9	40.3

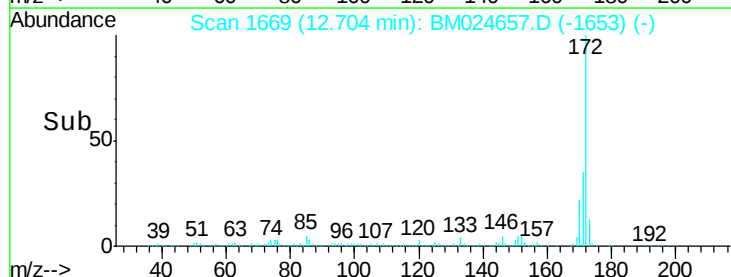
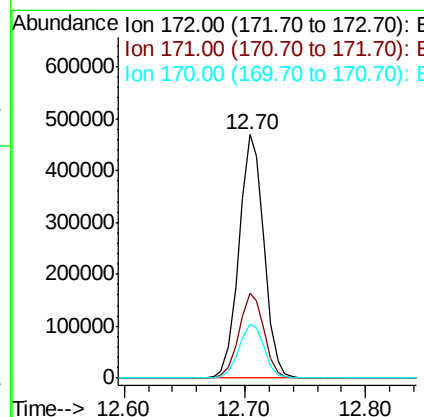
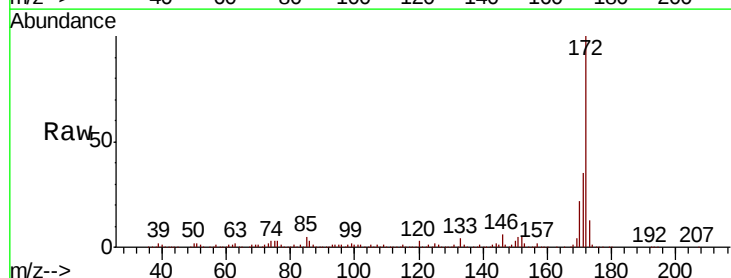
Manual Integrations
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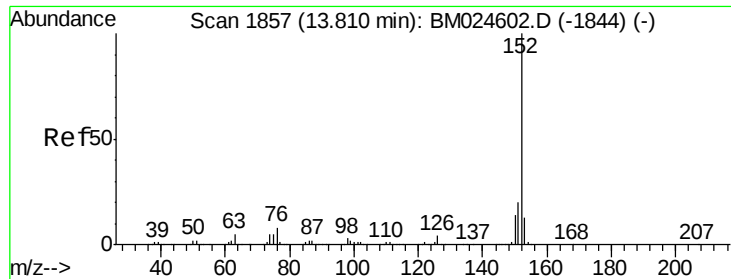
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#45
 2-Fluorobiphenyl
 Concen: 9.464 ng
 RT: 12.70 min Scan# 1669
 Delta R.T. -0.01 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.3	42.5
170	22.4	17.9	26.9





#49

Acenaphthylene

Concen: 13.336 ng

RT: 13.81 min Scan# 1857

Delta R.T. -0.00 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

Instrument :

BNA_M

ClientSampleId :

BORING-B2-SAMPLE-S1

Tot Ion:152 Resp: 1181520

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	14.5	10.4	15.6

152 100

151 19.8 15.8 23.6

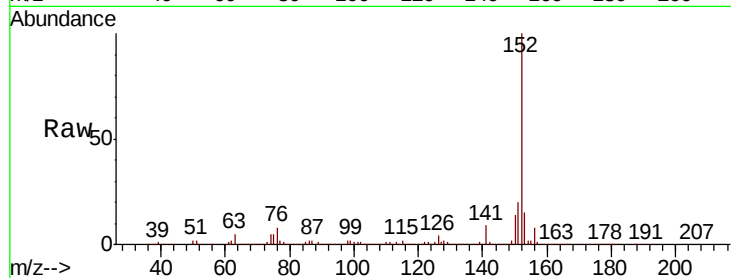
153 14.5 10.4 15.6

Manual Integrations

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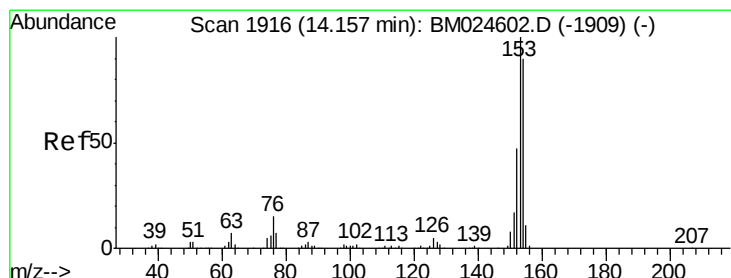
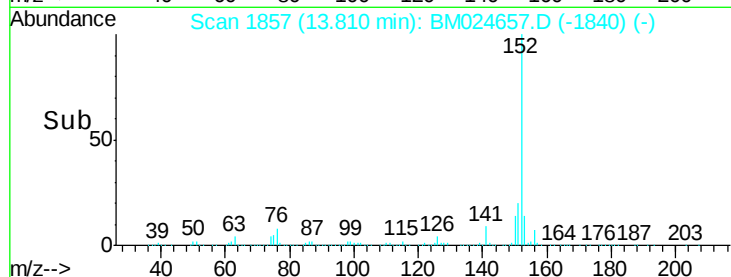
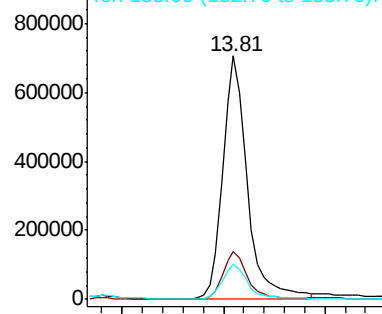


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#52

Acenaphthene

Concen: 8.910 ng

RT: 14.16 min Scan# 1916

Delta R.T. -0.00 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

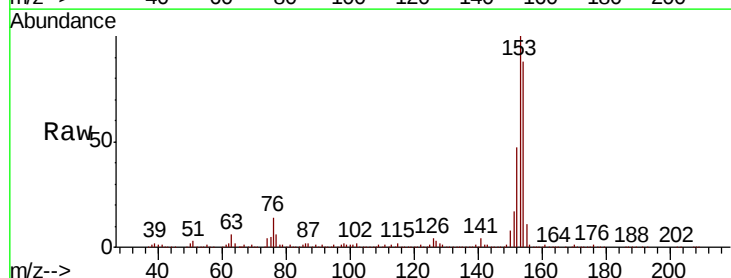
Tgt Ion:154 Resp: 489824

Ion	Ratio	Lower	Upper
154	100		
153	113.8	89.1	133.7
152	53.5	41.9	62.9

154 100

153 113.8 89.1 133.7

152 53.5 41.9 62.9

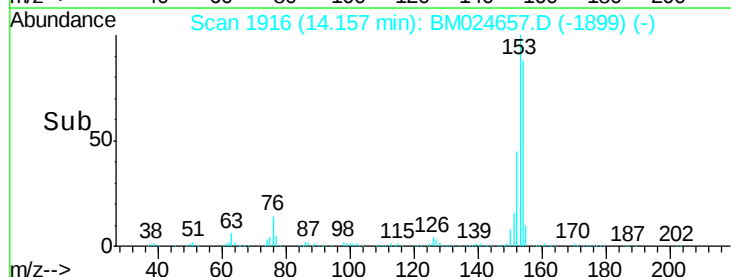
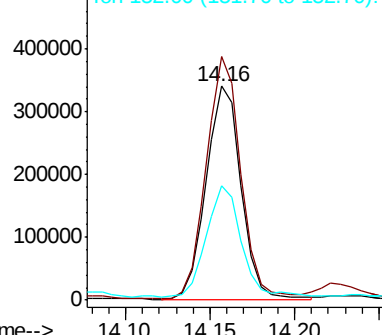


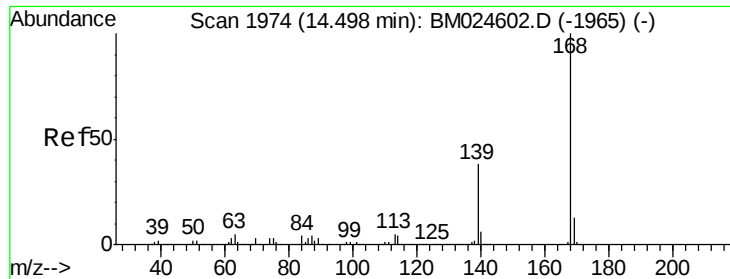
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





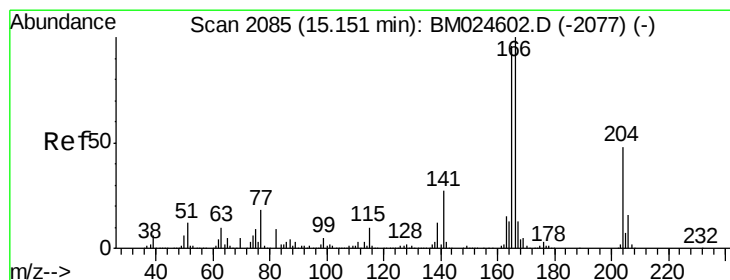
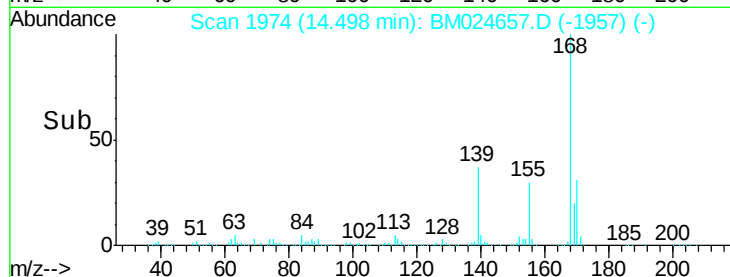
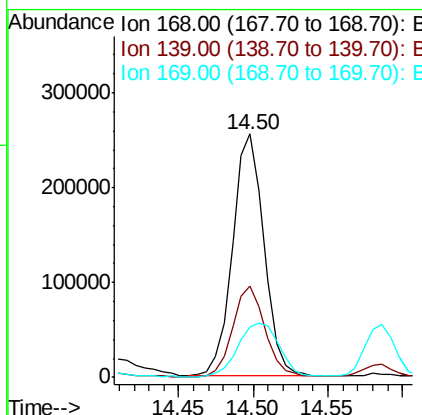
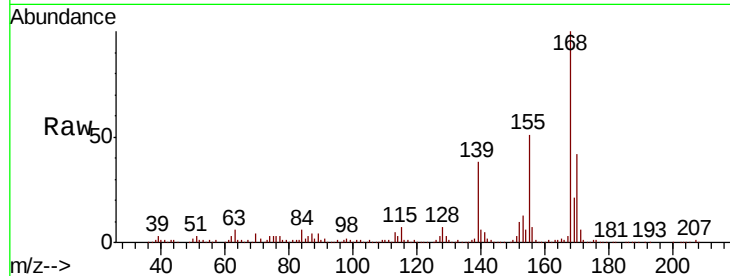
#55
Dibenzofuran
Concen: 4.190 ng
RT: 14.50 min Scan# 1974
Delta R.T. -0.00 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.2	45.4
169	20.7	10.7	16.1

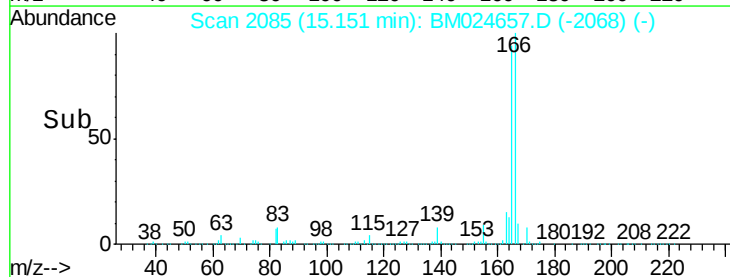
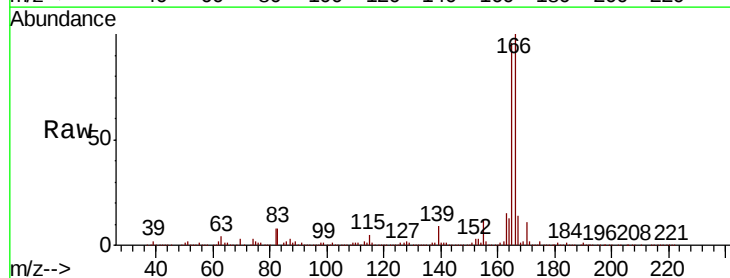
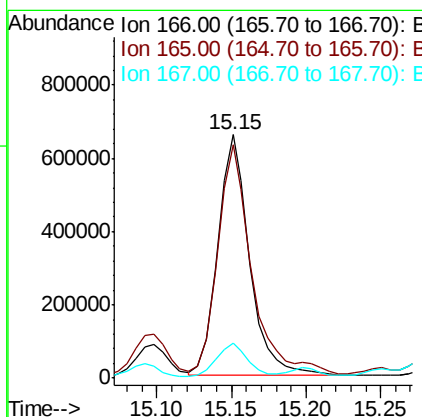
Manual Integrations
APPROVED

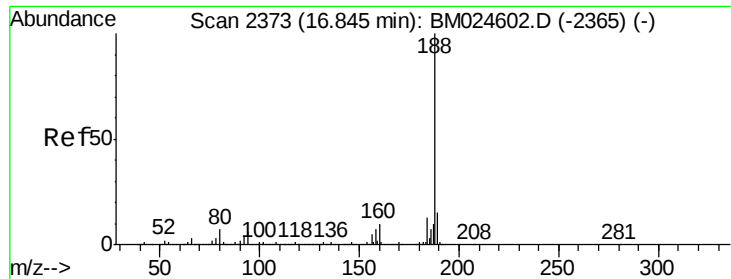
mohammad
1/30/2020 10:19:13 AM



#58
Fluorene
Concen: 12.983 ng
RT: 15.15 min Scan# 2085
Delta R.T. -0.00 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.9	76.6	114.8
167	14.2	10.8	16.2





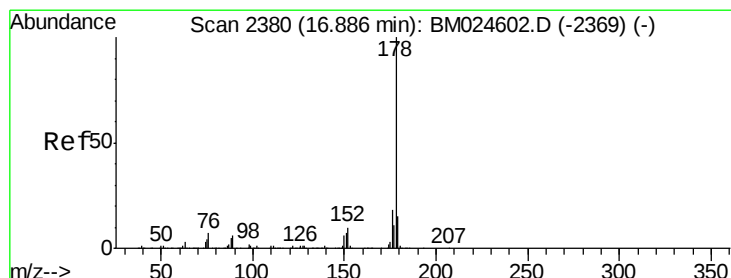
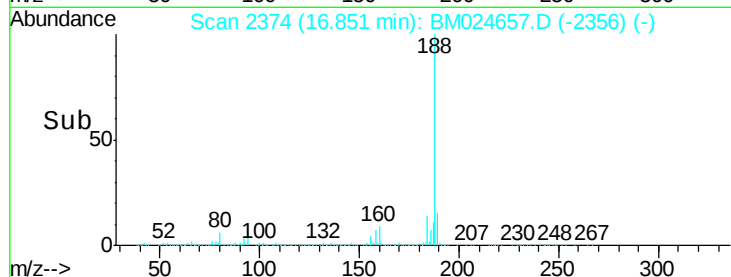
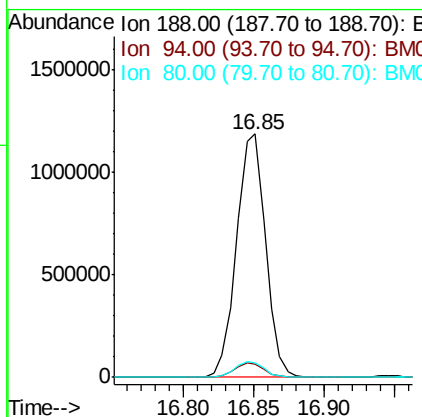
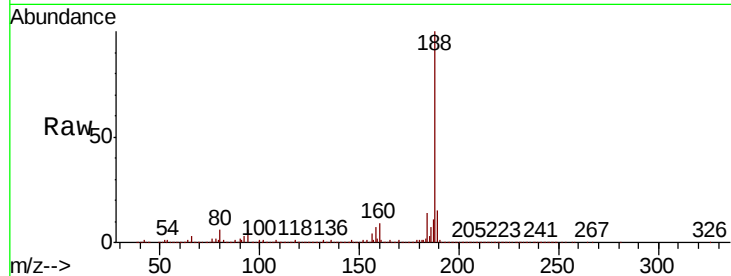
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.85 min Scan# 2374
Delta R.T. 0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
188	100		
94	5.6	5.0	7.6
80	6.2	5.8	8.8

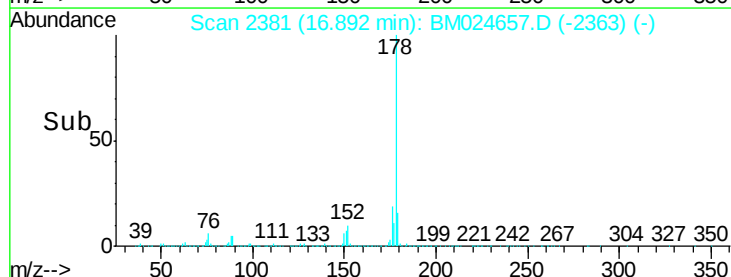
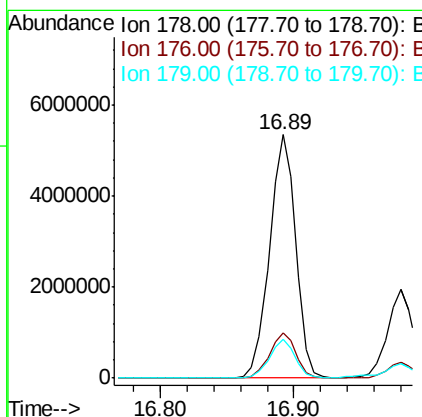
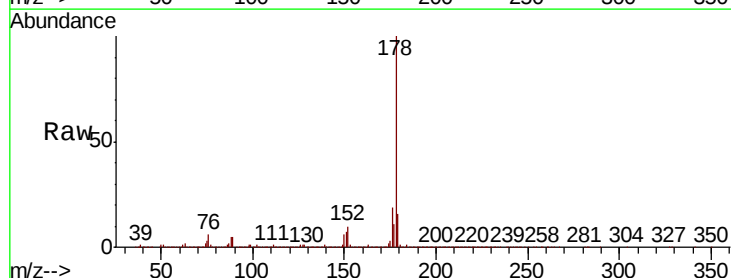
Manual Integrations
APPROVED

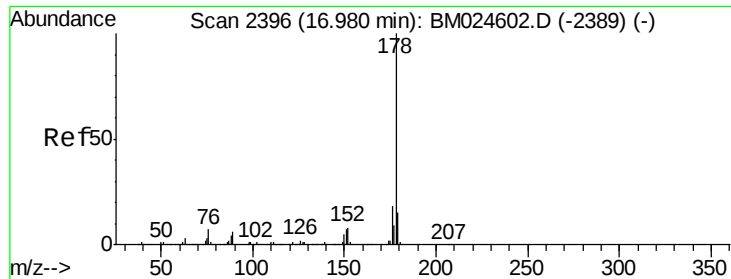
mohammad
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#71
Phenanthrene
Concen: 79.187 ng
RT: 16.89 min Scan# 2381
Delta R.T. 0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.5	21.7
179	15.7	11.9	17.9





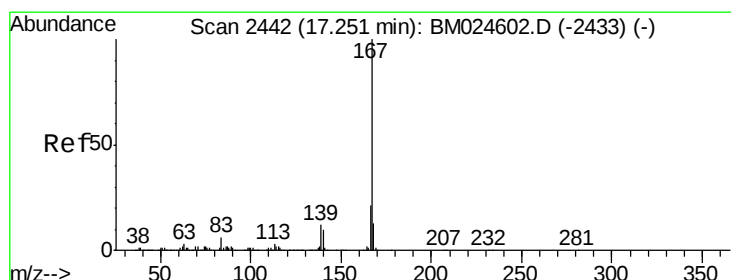
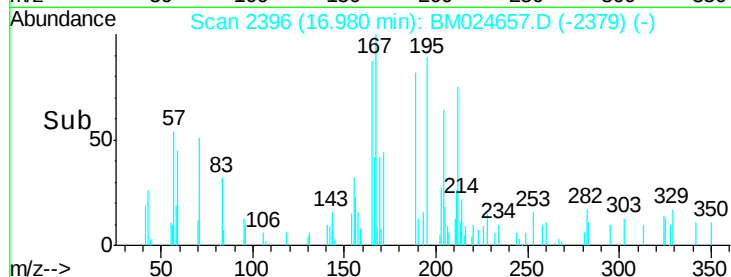
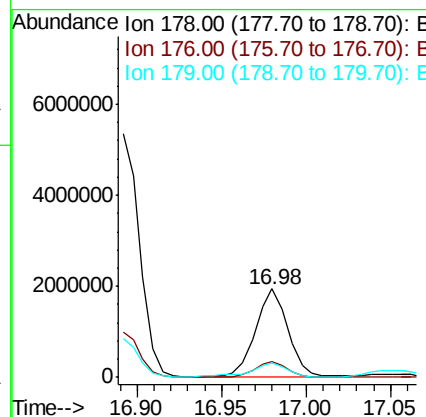
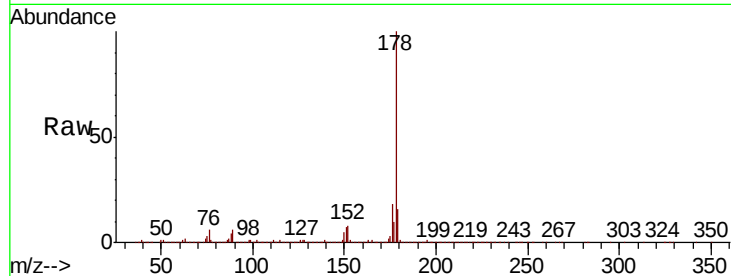
#72
 Anthracene
 Concen: 28.589 ng
 RT: 16.98 min Scan# 2396
 Delta R.T. -0.00 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Instrument :
 BNA_M
 ClientSampleId :
 BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.3	21.5
179	15.8	12.1	18.1

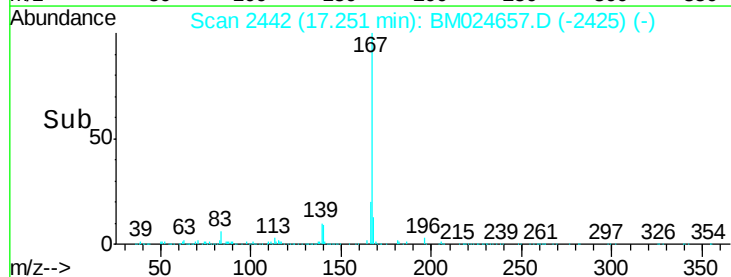
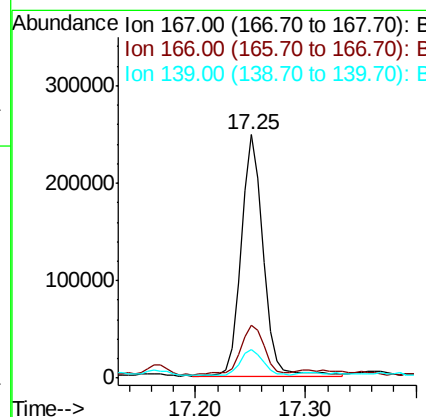
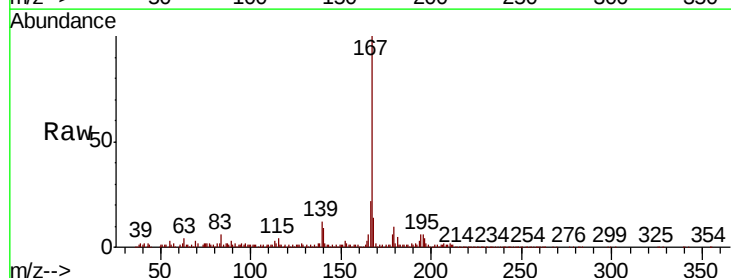
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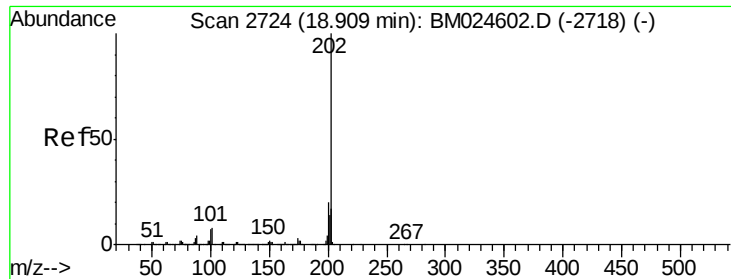
mohammad
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#73
 Carbazole
 Concen: 4.268 ng
 RT: 17.25 min Scan# 2442
 Delta R.T. -0.00 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.1	25.7
139	11.8	9.8	14.8





#75

Fluoranthene

Concen: 66.570 ng

RT: 18.92 min Scan# 2726

Delta R.T. 0.01 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

Instrument :

BNA_M

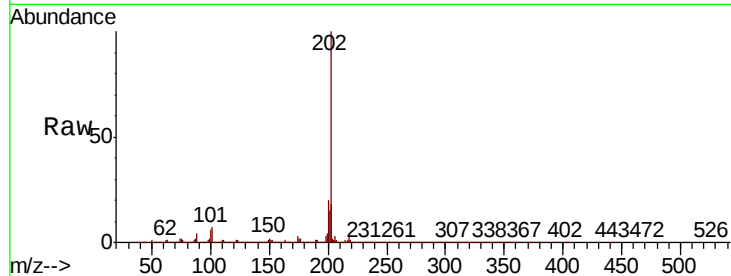
ClientSampleId :

BORING-B2-SAMPLE-S1

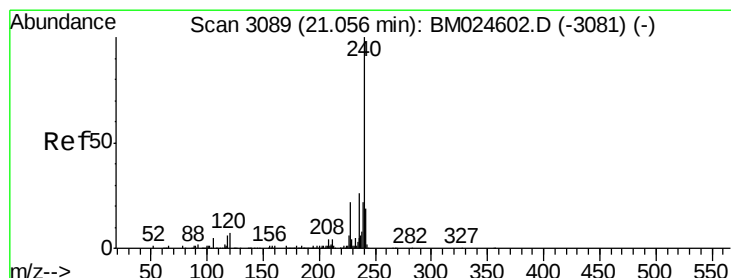
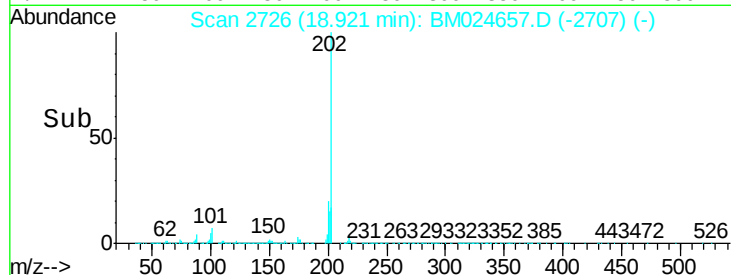
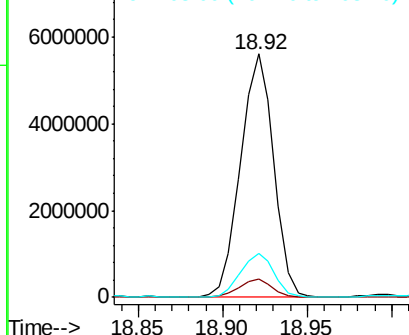
Tot Ion:	202	Resp:	7646153
Ion	Ratio	Lower	Upper
202	100		
101	7.3	0.0	28.4
203	18.1	0.0	37.5

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

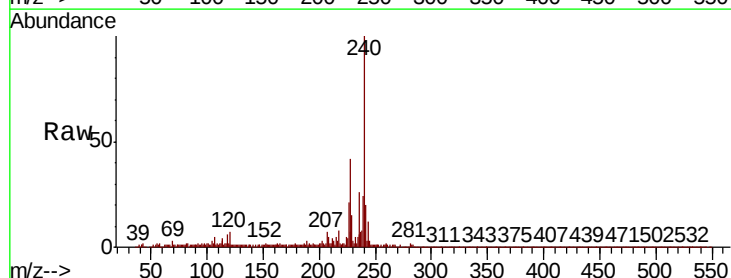
RT: 21.06 min Scan# 3090

Delta R.T. 0.01 min

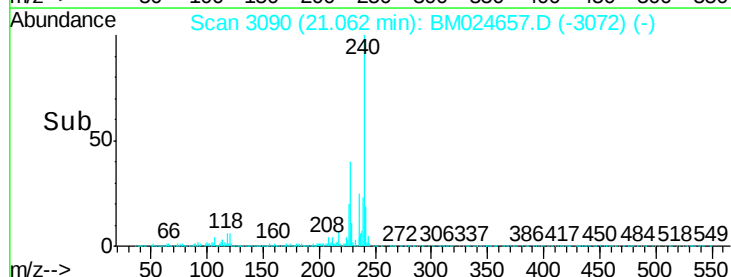
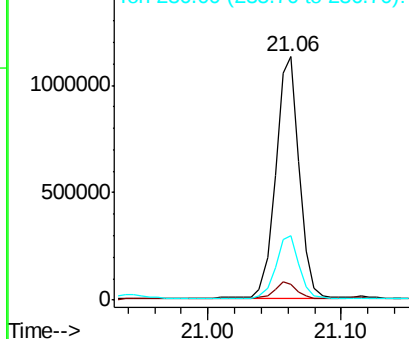
Lab File: BM024657.D

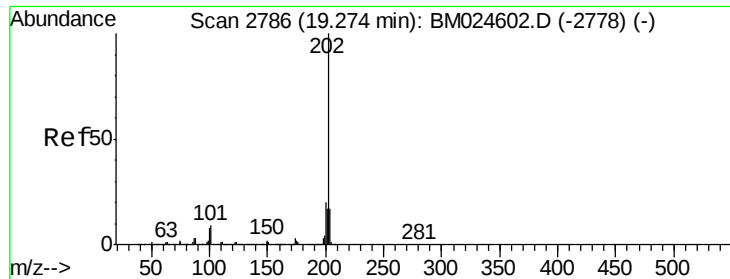
Acq: 29 Jan 2020 19:17

Tgt Ion:	240	Resp:	1394403
Ion	Ratio	Lower	Upper
240	100		
120	6.6	5.3	7.9
236	26.3	20.6	31.0



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





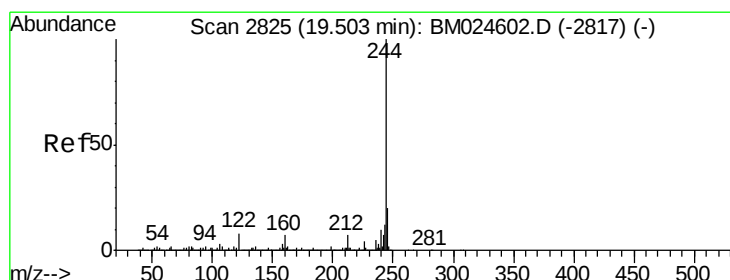
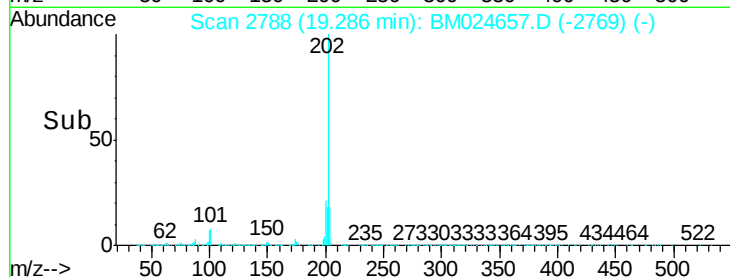
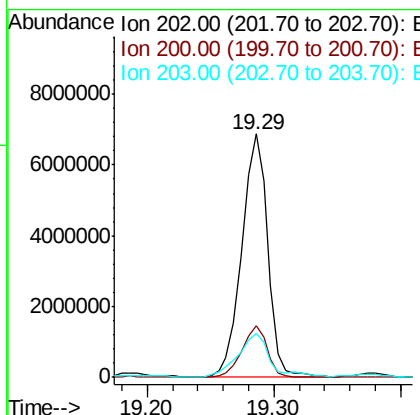
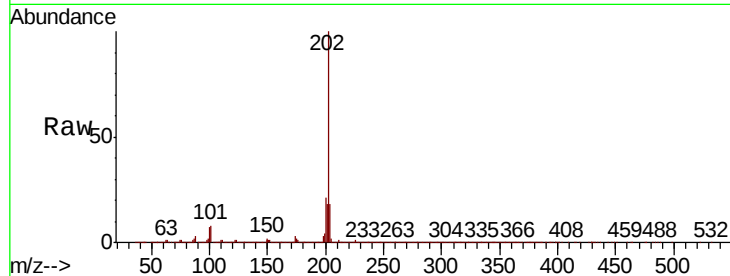
#78
Pvrene
Concen: 105.322 ng
RT: 19.29 min Scan# 2788
Delta R.T. 0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.2	24.2
203	18.0	14.0	21.0

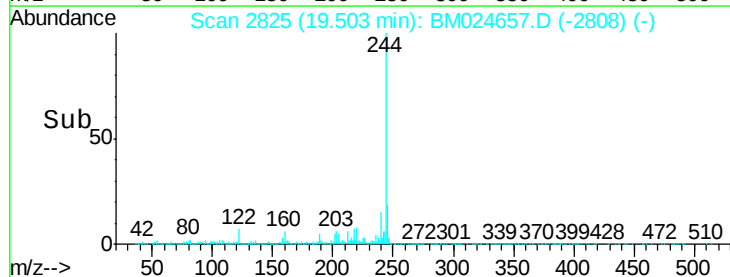
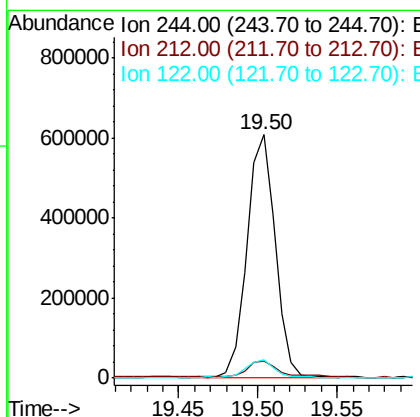
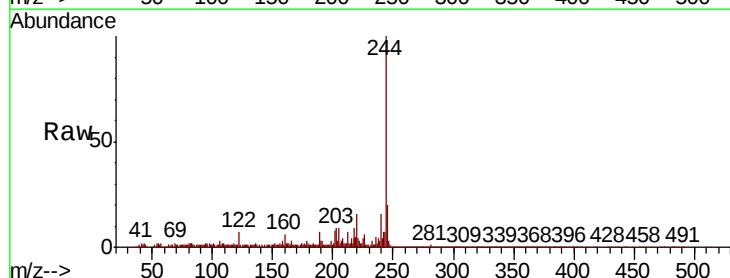
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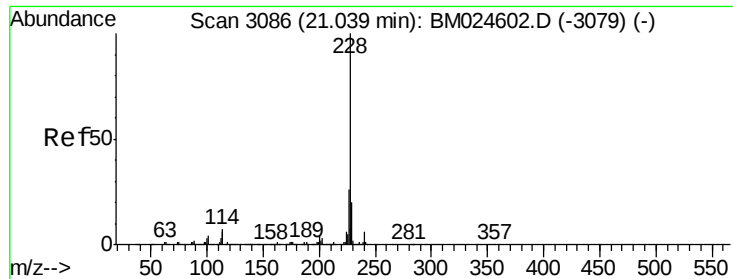
mohammad
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#79
Terphenyl-d14
Concen: 10.006 ng
RT: 19.50 min Scan# 2825
Delta R.T. -0.00 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	7.3	6.2	9.4





#81

Benzo(a)anthracene

Concen: 44.615 ng

RT: 21.04 min Scan# 3087

Delta R.T. 0.01 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

Instrument :

BNA_M

ClientSampleId :

BORING-B2-SAMPLE-S1

Tot Ion:228 Resp: 4317834

Ion Ratio Lower Upper

228 100

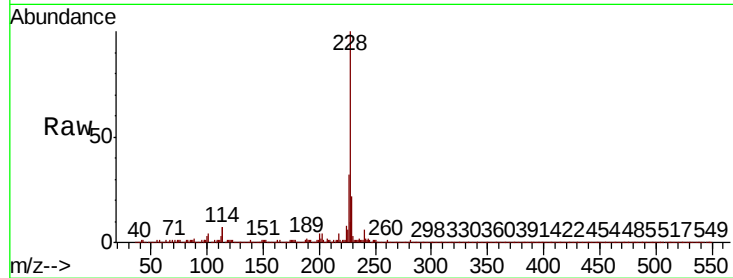
226 31.9 21.1 31.7#

229 21.9 15.8 23.6

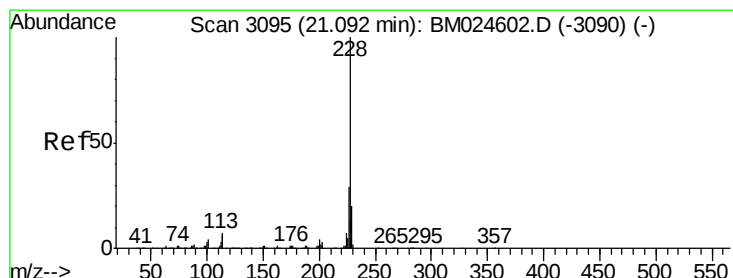
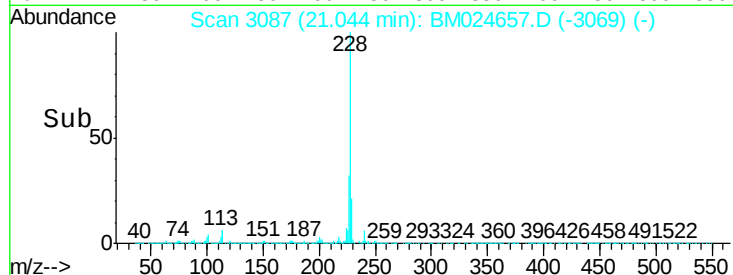
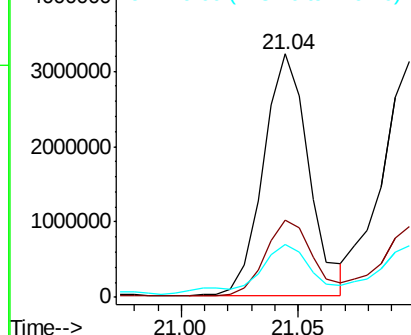
Manual Integrations
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 44.550 ng

RT: 21.10 min Scan# 3096

Delta R.T. 0.01 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

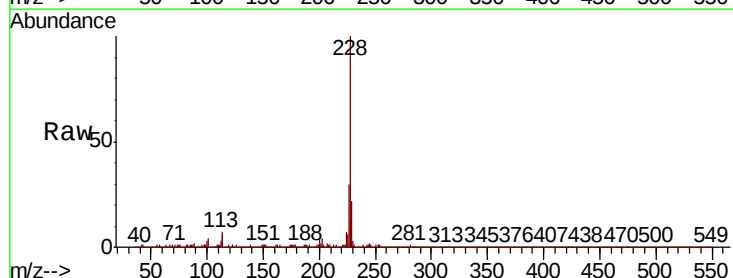
Tgt Ion:228 Resp: 4114087

Ion Ratio Lower Upper

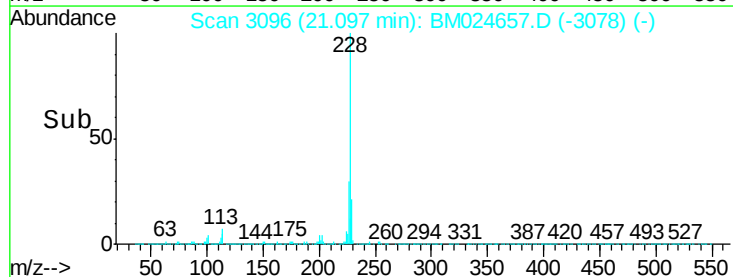
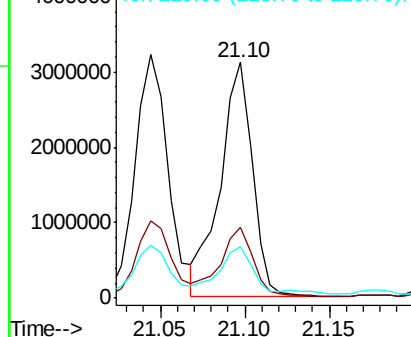
228 100

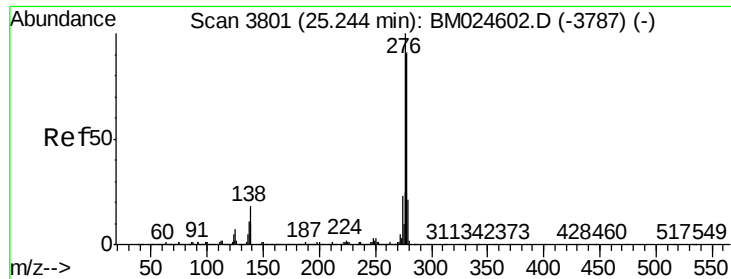
226 29.9 23.2 34.8

229 21.9 15.7 23.5



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





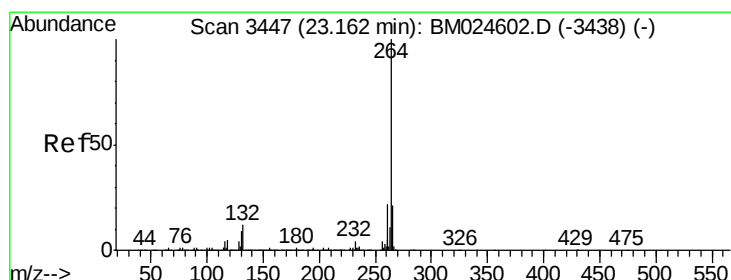
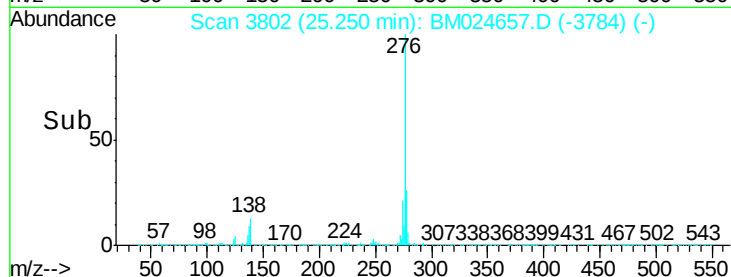
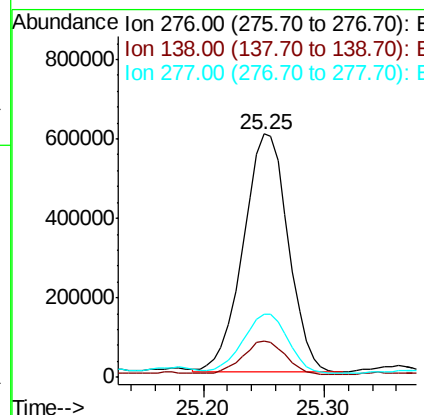
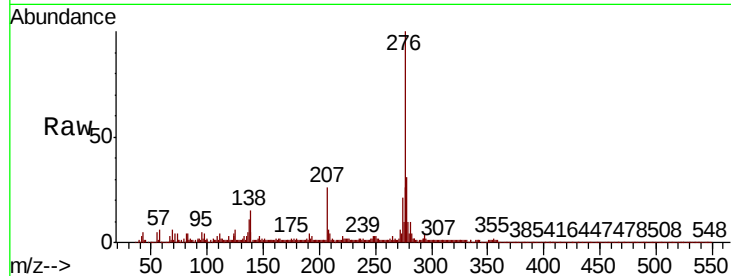
#86
Indeno(1,2,3-cd)pyrene
Concen: 15.463 ng
RT: 25.25 min Scan# 3802
Delta R.T. 0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
138	13.7	13.4	20.0	
277	25.5	19.6	29.4	

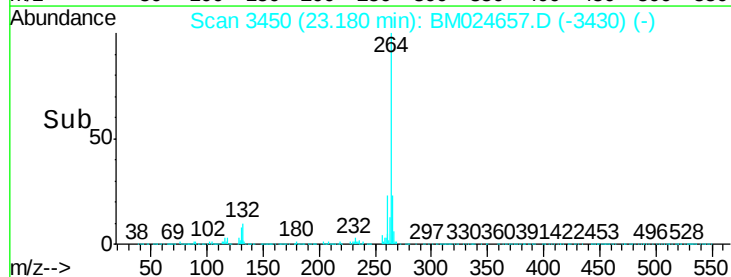
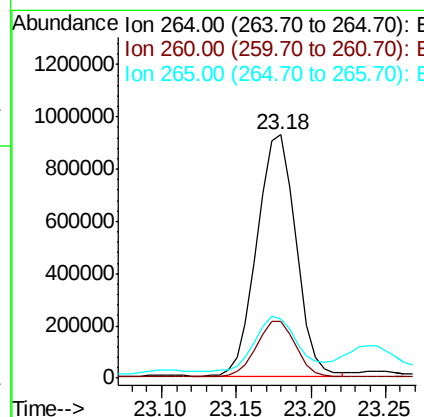
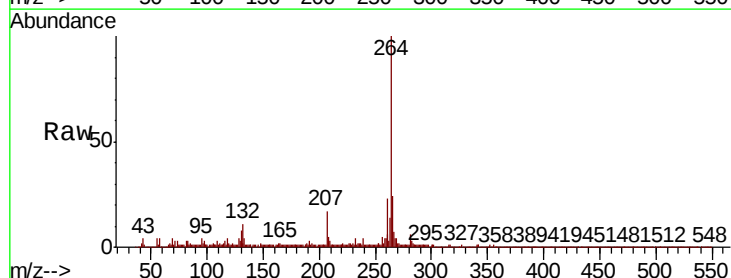
Manual Integrations
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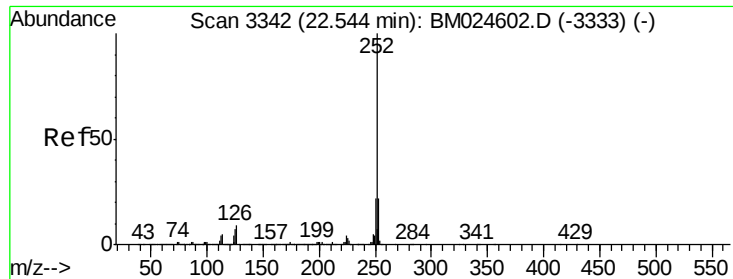
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 23.18 min Scan# 3450
Delta R.T. 0.02 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Tgt Ion	Ion	Ratio	Lower	Upper
264	100			
260	23.1	17.9	26.9	
265	24.3	17.3	25.9	





#88

Benzo(b)fluoranthene

Concen: 30.949 ng m

RT: 22.56 min Scan# 3345

Delta R.T. 0.02 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

Instrument :

BNA_M

ClientSampleId :

BORING-B2-SAMPLE-S1

Tot Ion:252 Resp: 3344926

Ion Ratio Lower Upper

252 100

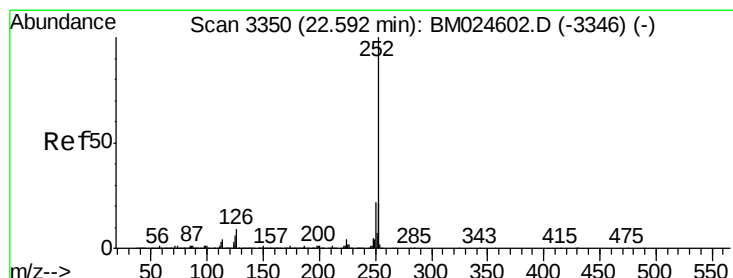
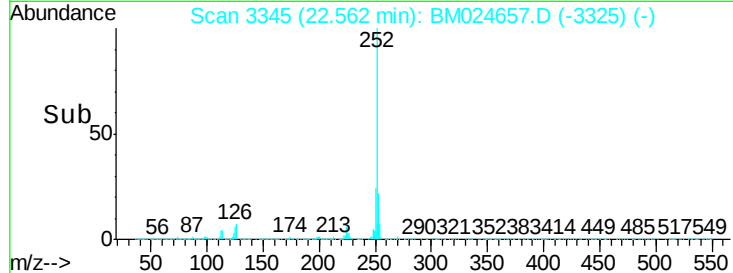
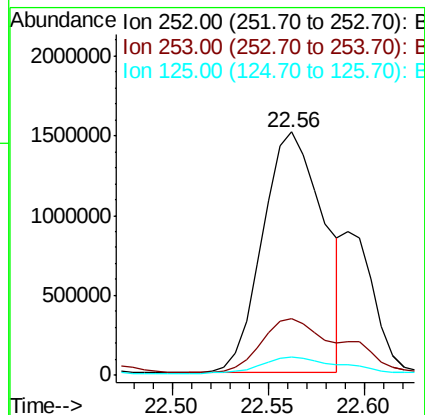
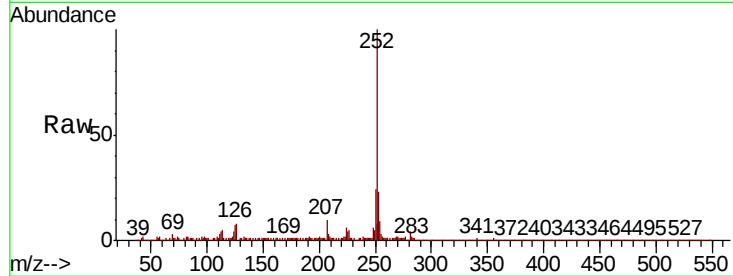
253 23.3 17.6 26.4

125 7.3 5.7 8.5

Manual Integrations
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#89

Benzo(k)fluoranthene

Concen: 9.175 ng m

RT: 22.59 min Scan# 3350

Delta R.T. -0.00 min

Lab File: BM024657.D

Acq: 29 Jan 2020 19:17

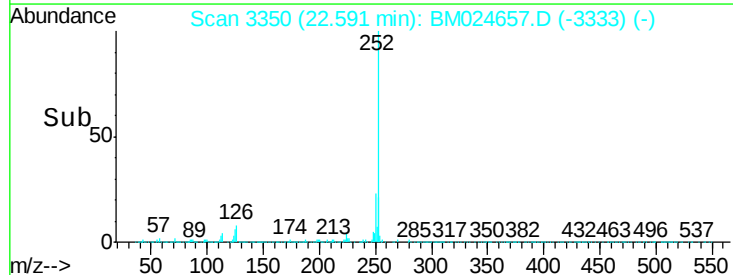
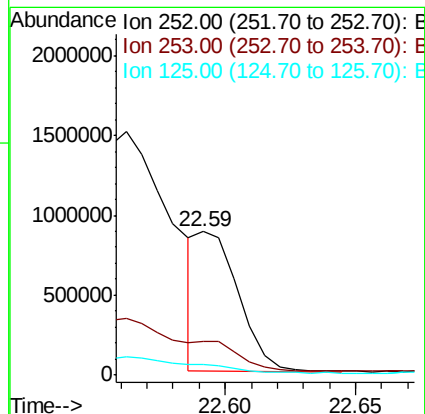
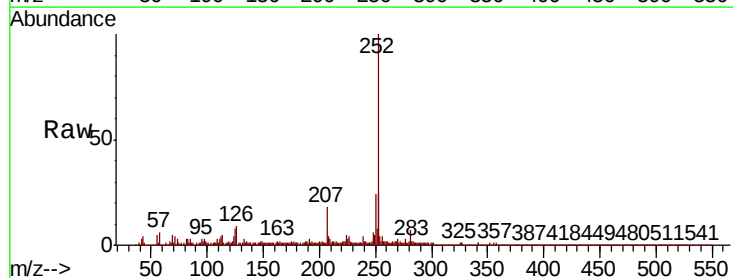
Tgt Ion:252 Resp: 967923

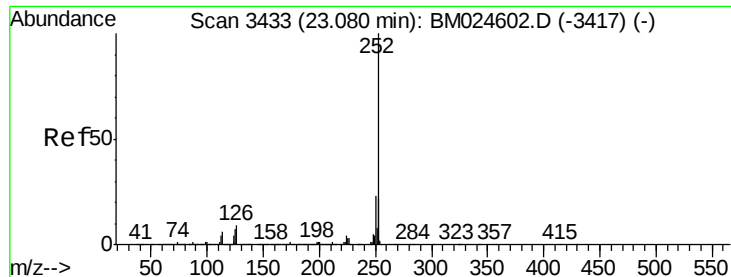
Ion Ratio Lower Upper

252 100

253 23.7 17.3 25.9

125 7.5 5.2 7.8





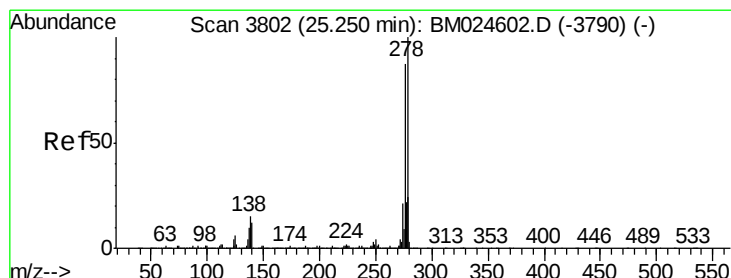
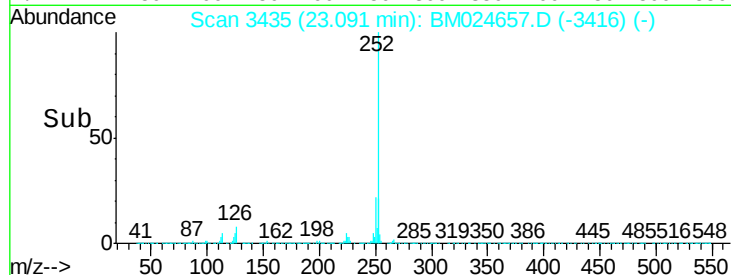
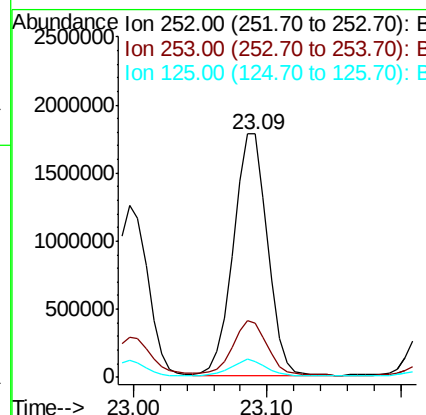
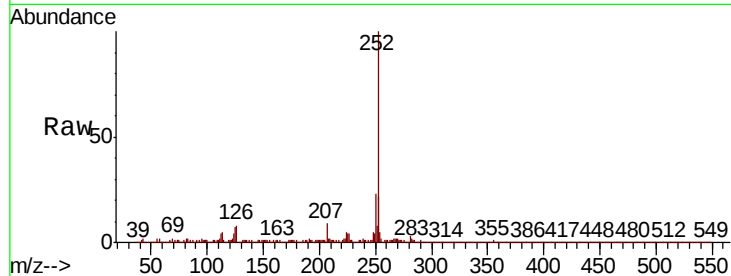
#90
Benzo(a)pyrene
Concen: 32.005 ng
RT: 23.09 min Scan# 3435
Delta R.T. 0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Instrument :
BNA_M
ClientSampleId :
BORING-B2-SAMPLE-S1

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	6.6	5.8	8.8

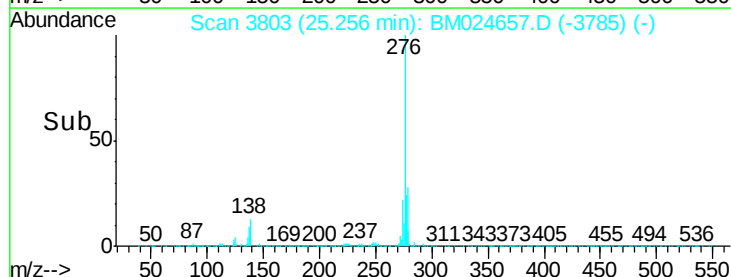
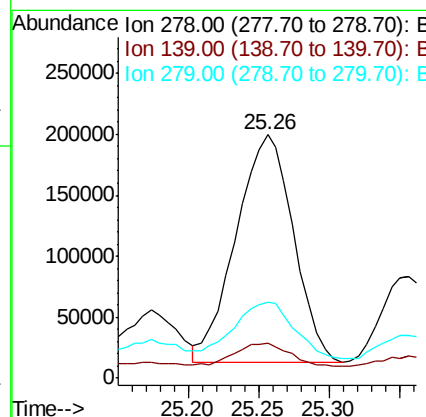
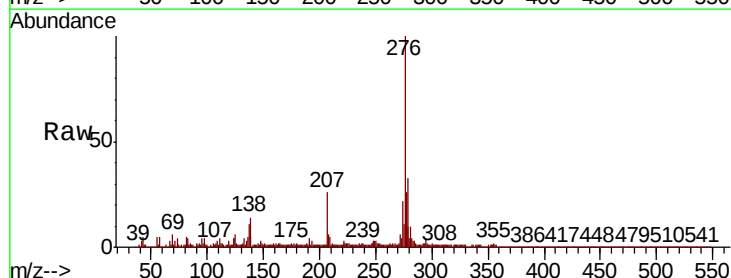
Manual Integrations
APPROVED

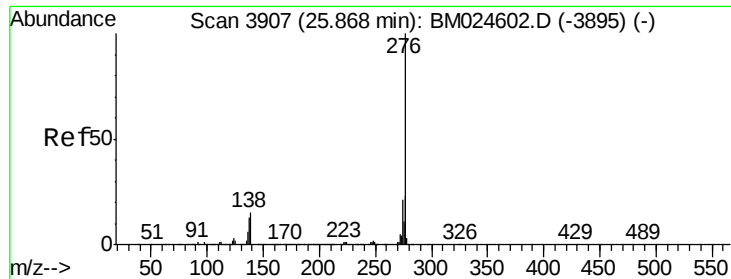
mohammad
1/30/2020 10:19:13 AM



#91
Dibenzo(a,h)anthracene
Concen: 5.689 ng
RT: 25.26 min Scan# 3803
Delta R.T. 0.01 min
Lab File: BM024657.D
Acq: 29 Jan 2020 19:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.4	9.3	13.9#
279	31.4	18.9	28.3#





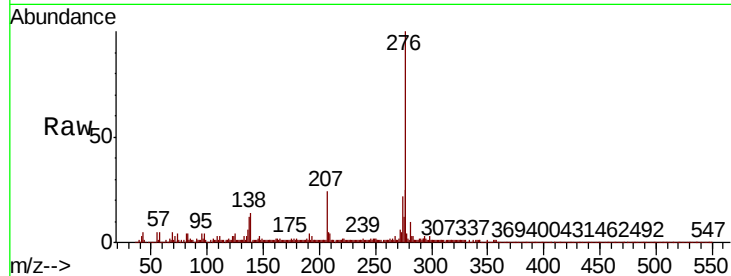
#92
 Benzo(a,h,i)perylene
 Concen: 20.837 ng
 RT: 25.89 min Scan# 3910
 Delta R.T. 0.02 min
 Lab File: BM024657.D
 Acq: 29 Jan 2020 19:17

Instrument :
 BNA_M
 ClientSampleId :
 BORING-B2-SAMPLE-S1

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	25.2	18.6	28.0	
138	13.8	11.9	17.9	

Manual Integrations
 APPROVED

mohammad
 1/30/2020 10:19:13 AM



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

