

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101321\
 Data File : BF125831.D
 Acq On : 13 Oct 2021 17:47
 Operator : JU/CG
 Sample : M4178-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101221

Manual Integrations
 APPROVED

mohammad
 10/14/2021 10:55:31 AM

Quant Time: Oct 14 09:01:52 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 13 13:23:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	182356	20.00	ng	0.00
21) Naphthalene-d8	8.128	136	675753	20.00	ng	# 0.00
39) Acenaphthene-d10	9.874	164	316508	20.00	ng	0.00
64) Phenanthrene-d10	11.363	188	516348	20.00	ng	0.00
76) Chrysene-d12	13.998	240	374491	20.00	ng	0.00
86) Perylene-d12	15.462	264	293411	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	772536	69.21	ng	0.00
7) Phenol-d6	6.469	99	914599	63.65	ng	0.00
23) Nitrobenzene-d5	7.404	82	523196	48.13	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	202499	64.80	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	988654	53.88	ng	0.00
79) Terphenyl-d14	12.945	244	1009500	41.06	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.145	128	263621	8.07	ng	98
37) 2-Methylnaphthalene	8.839	142	174643	8.25	ng	98
38) 1-Methylnaphthalene	8.933	142	154894	7.54	ng	96
49) Acenaphthylene	9.739	152	373652	13.50	ng	98
52) Acenaphthene	9.910	154	83179	4.81	ng	97
55) Dibenzofuran	10.080	168	144637	5.59	ng	# 92
58) Fluorene	10.421	166	265012	13.97	ng	99
66) n-Nitrosodiphenylamine	10.533	169	41002	2.33	ng	97
71) Phenanthrene	11.386	178	1309990	47.42	ng	98
72) Anthracene	11.439	178	383927	13.91	ng	99
73) Carbazole	11.586	167	110212	4.29	ng	99
75) Fluoranthene	12.580	202	1671268	67.04	ng	97
78) Pyrene	12.810	202	1748706	45.96	ng	97
81) Benzo(a)anthracene	13.992	228	762560m	31.39	ng	
83) Chrysene	14.027	228	762350	31.74	ng	96
87) Indeno(1,2,3-cd)pyrene	16.915	276	380180	16.98	ng	94
88) Benzo(b)fluoranthene	15.039	252	896740m	54.13	ng	
89) Benzo(k)fluoranthene	15.062	252	231090m	13.59	ng	
90) Benzo(a)pyrene	15.398	252	607039	41.38	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	91304	4.94	ng	# 88
92) Benzo(g,h,i)perylene	17.356	276	362706	19.23	ng	94

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

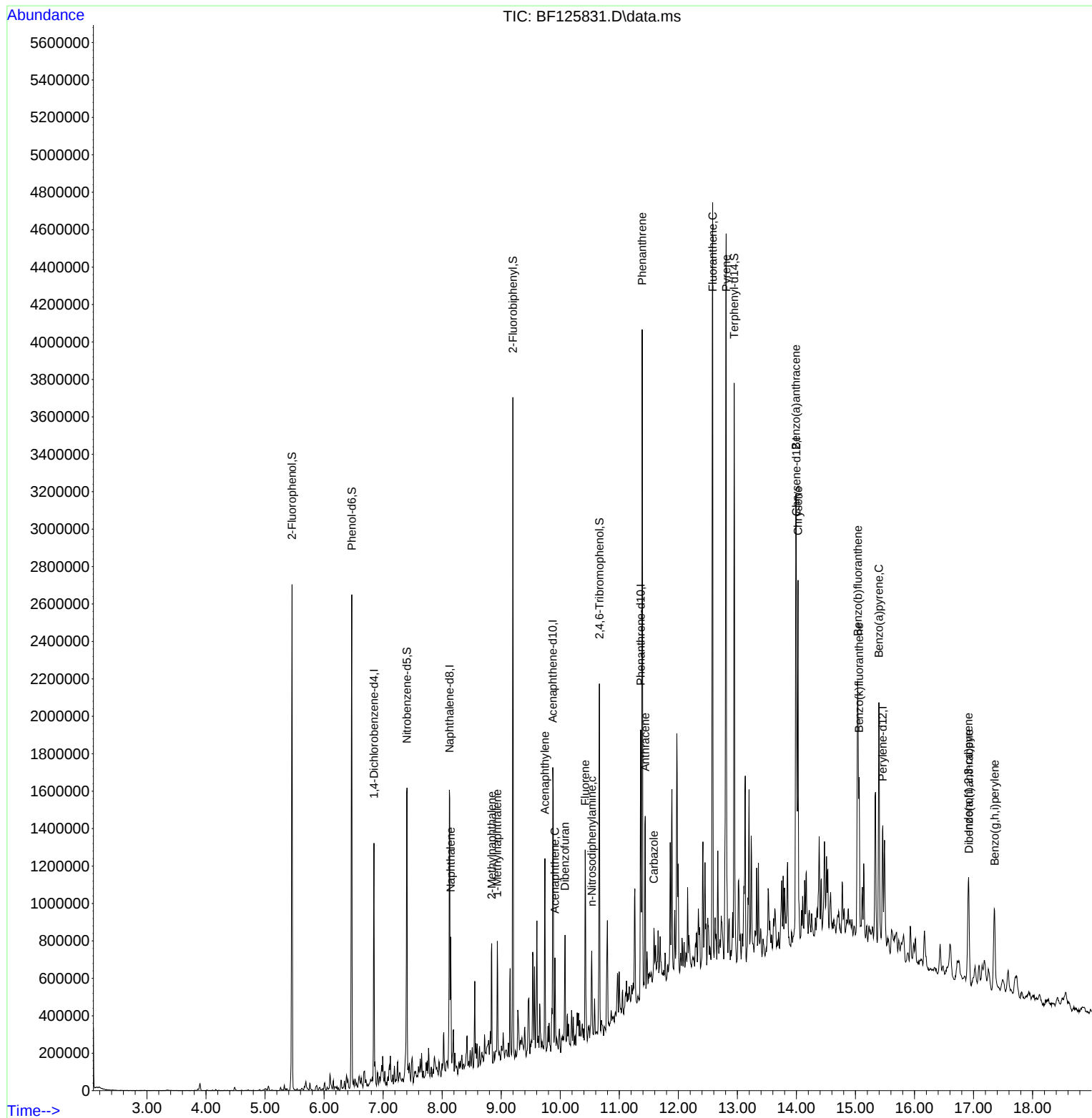
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101321\
Data File : BF125831.D
Acq On : 13 Oct 2021 17:47
Operator : JU/CG
Sample : M4178-01 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

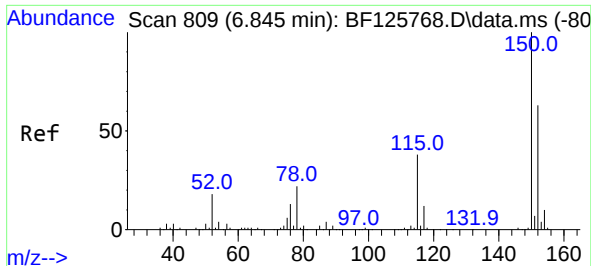
Instrument :
BNA_F
ClientSampleId :
CL-02-101221

Manual Integrations
APPROVED

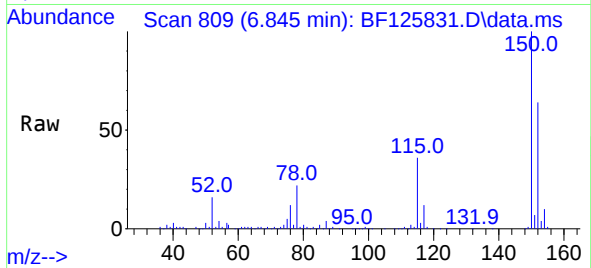
mohammad
10/14/2021 10:55:31 AM

Quant Time: Oct 14 09:01:52 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 13 13:23:32 2021
Response via : Initial Calibration

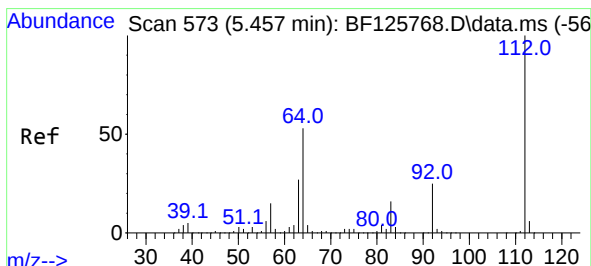
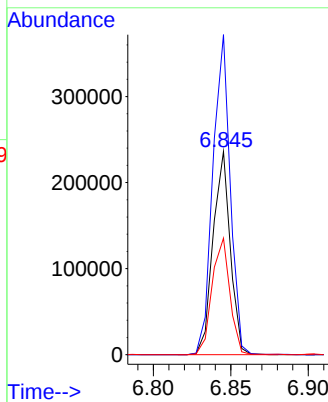
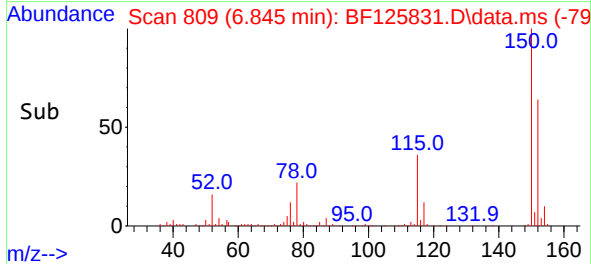




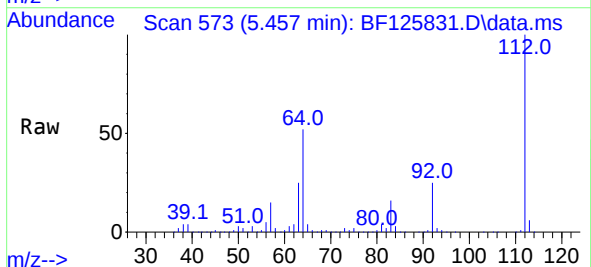
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.845 min Scan# 809
Delta R.T. 0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



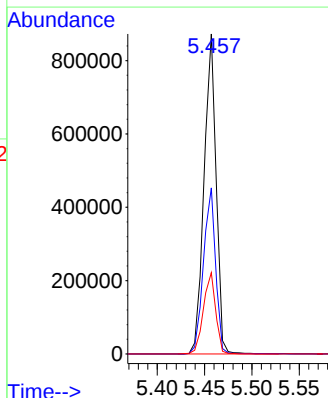
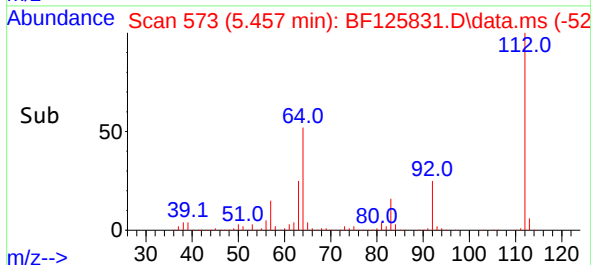
Tgt Ion:152 Resp: 182356
Ion Ratio Lower Upper
152 100
150 157.4 117.6 176.4
115 57.3 47.1 70.7



#5
2-Fluorophenol
Concen: 69.21 ng
RT: 5.457 min Scan# 573
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



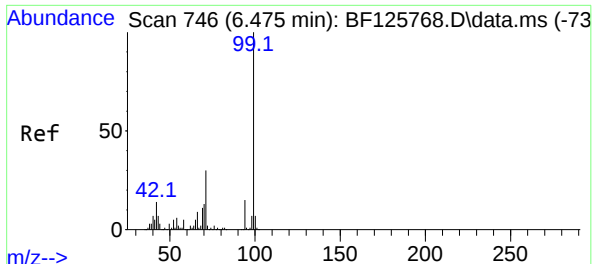
Tgt Ion:112 Resp: 772536
Ion Ratio Lower Upper
112 100
64 51.9 44.2 66.2
63 25.4 26.2 39.2#



Instrument :
BNA_F
ClientSampleId :
CL-02-101221

Manual Integrations
APPROVED

mohammad
10/14/2021 10:55:31 AM



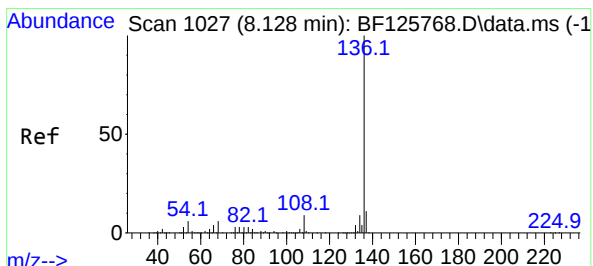
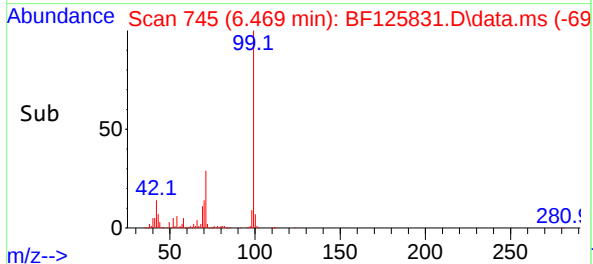
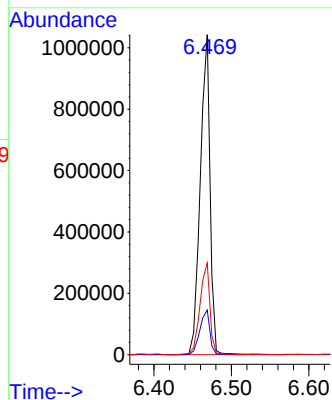
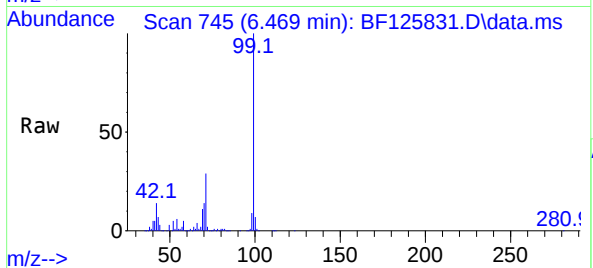
#7
Phenol-d6
Concen: 63.65 ng
RT: 6.469 min Scan# 745
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion: 99 Resp: 914599
Ion Ratio Lower Upper
99 100
42 13.9 23.5 35.3#
71 28.7 25.6 38.4

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

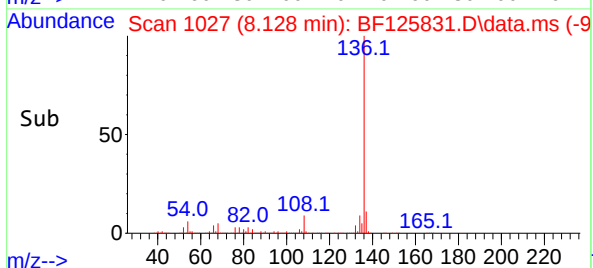
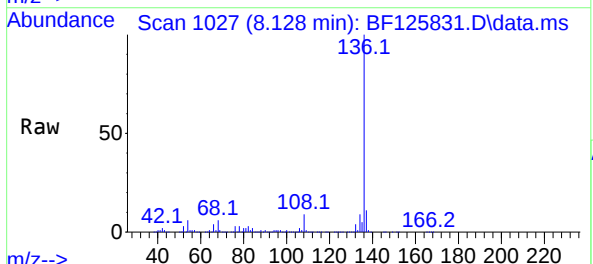
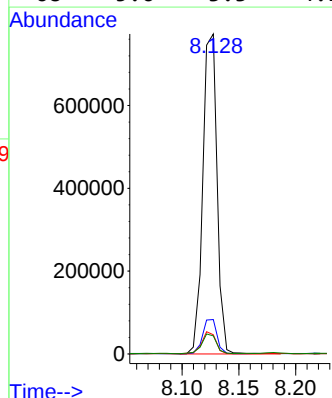
Manual Integrations
APPROVED

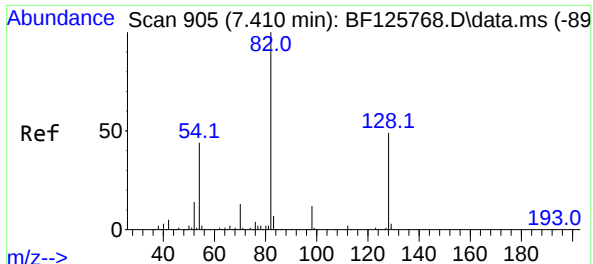
mohammad
10/14/2021 10:55:31 AM



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.128 min Scan# 1027
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

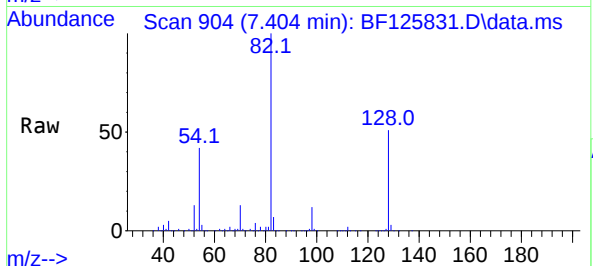
Tgt Ion: 136 Resp: 675753
Ion Ratio Lower Upper
136 100
137 10.7 9.8 14.6
54 6.0 6.4 9.6#
68 5.6 3.3 4.9#





#23
Nitrobenzene-d5
Concen: 48.13 ng
RT: 7.404 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

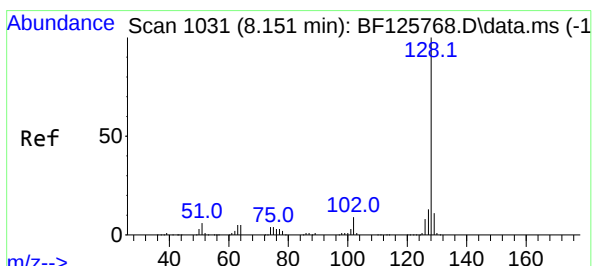
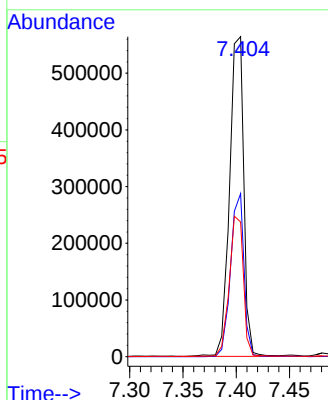
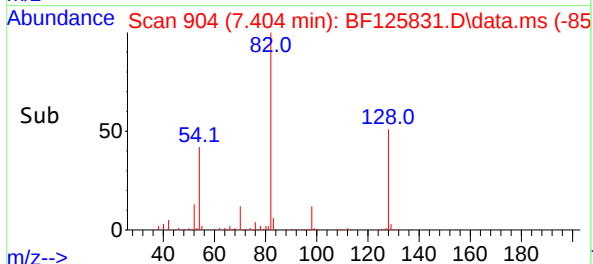
Instrument :
BNA_F
ClientSampleId :
CL-02-101221



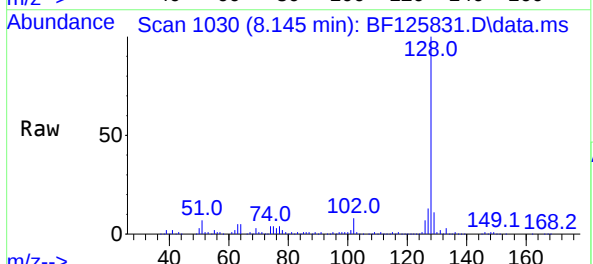
Tgt Ion: 82 Resp: 523196
Ion Ratio Lower Upper
82 100
128 51.0 40.6 60.8
54 42.1 49.6 74.4#

Manual Integrations
APPROVED

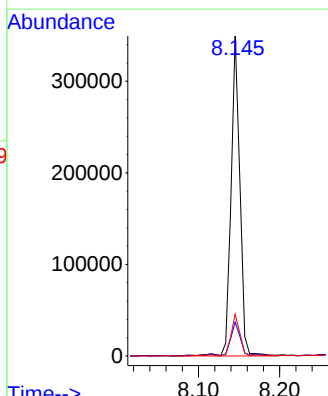
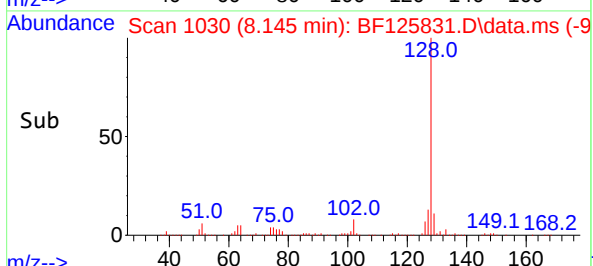
mohammad
10/14/2021 10:55:31 AM

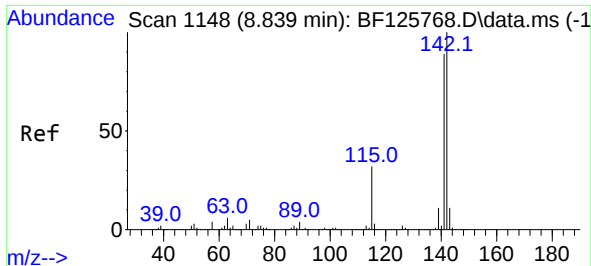


#31
Naphthalene
Concen: 8.07 ng
RT: 8.145 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



Tgt Ion: 128 Resp: 263621
Ion Ratio Lower Upper
128 100
129 10.6 9.4 14.0
127 13.0 10.9 16.3





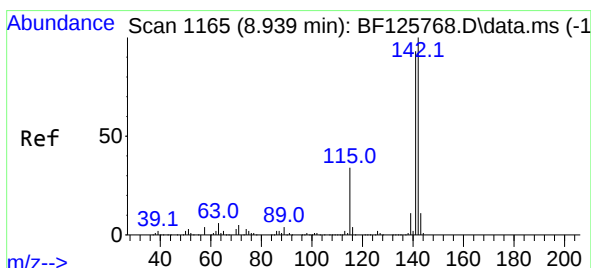
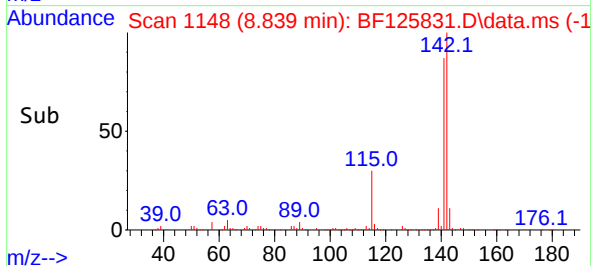
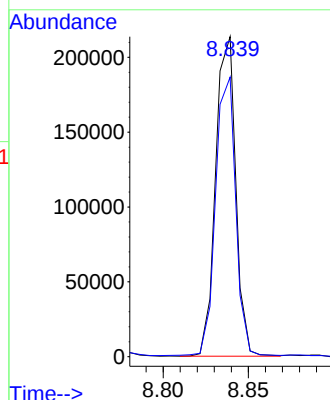
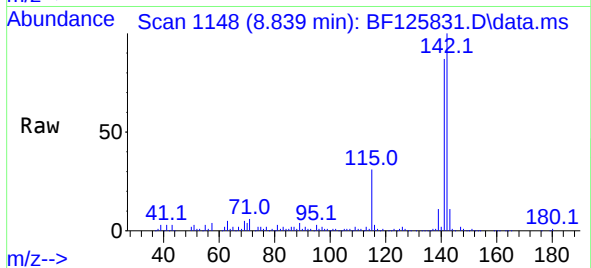
#37
2-Methylnaphthalene
Concen: 8.25 ng
RT: 8.839 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:142 Resp: 174643
Ion Ratio Lower Upper
142 100
141 87.3 71.2 106.8

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

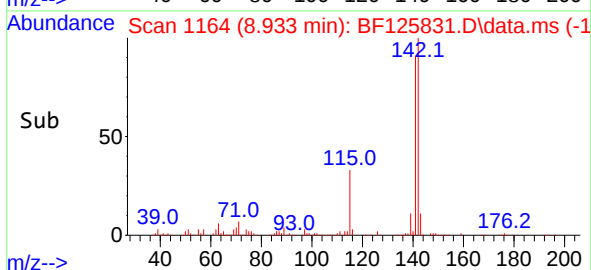
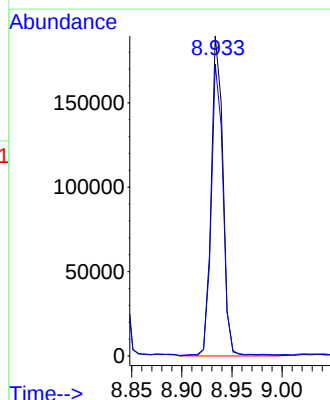
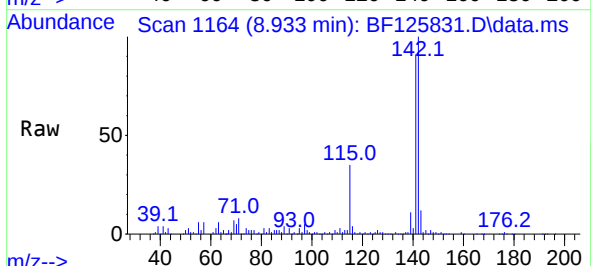
Manual Integrations
APPROVED

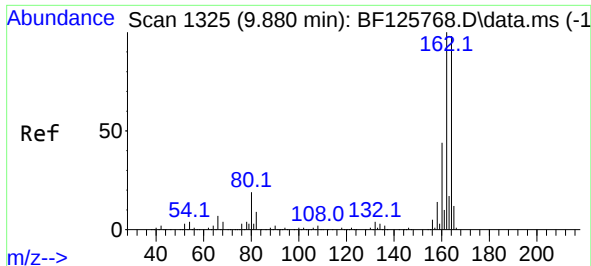
mohammad
10/14/2021 10:55:31 AM



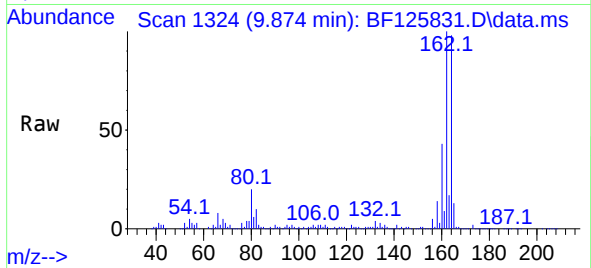
#38
1-Methylnaphthalene
Concen: 7.54 ng
RT: 8.933 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:142 Resp: 154894
Ion Ratio Lower Upper
142 100
141 91.3 76.0 114.0

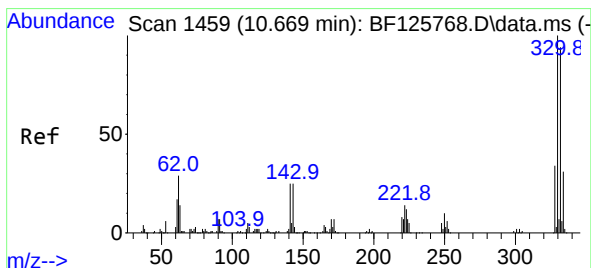
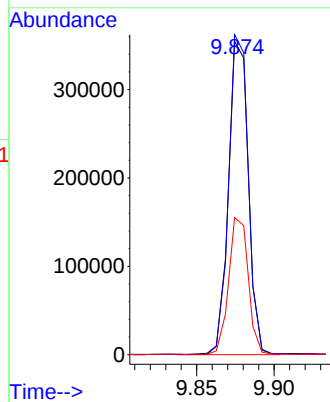
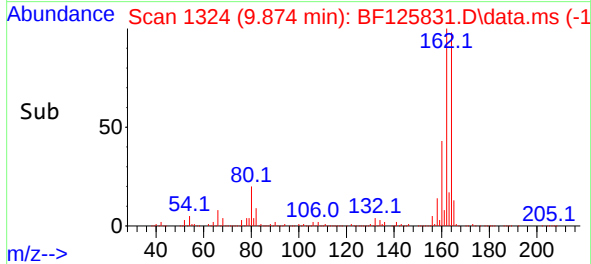




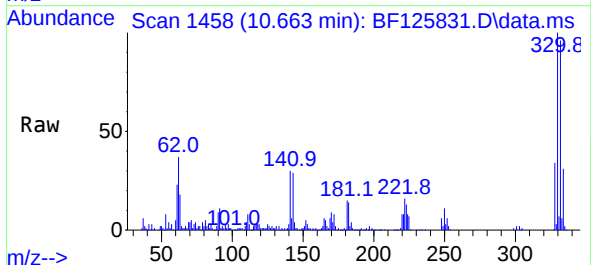
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.874 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



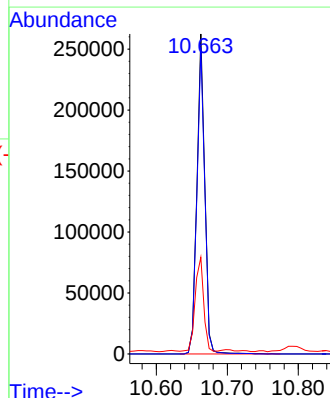
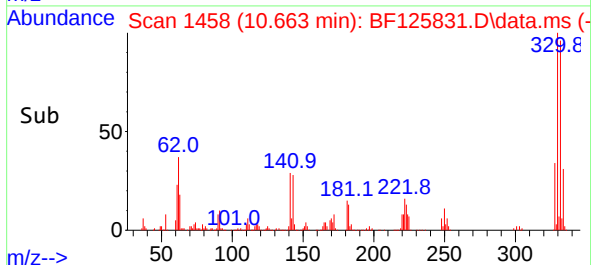
Tgt Ion:164 Resp: 316508
Ion Ratio Lower Upper
164 100
162 102.1 81.3 121.9
160 43.8 38.0 57.0



#42
2,4,6-Tribromophenol
Concen: 64.80 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



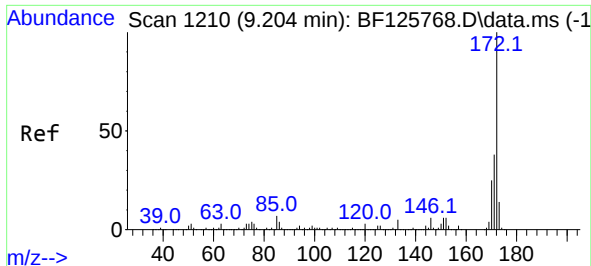
Tgt Ion:330 Resp: 202499
Ion Ratio Lower Upper
330 100
332 96.3 76.2 114.4
141 31.4 44.6 66.8#



Instrument :
BNA_F
ClientSampleId :
CL-02-101221

Manual Integrations
APPROVED

mohammad
10/14/2021 10:55:31 AM



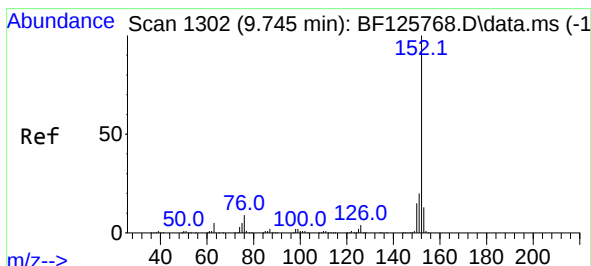
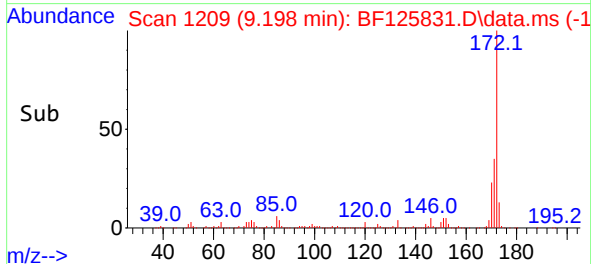
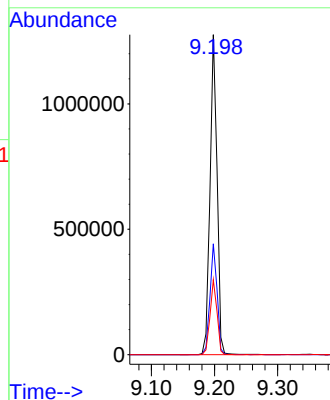
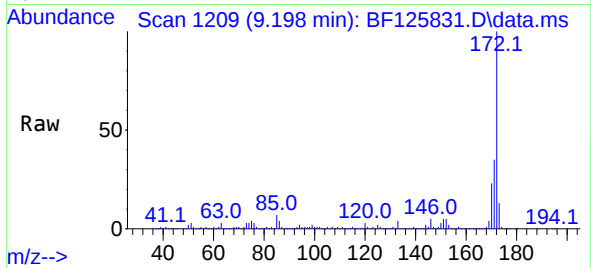
#45
2-Fluorobiphenyl
Concen: 53.88 ng
RT: 9.198 min Scan# 1209
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:	172	Resp:	988654
Ion	Ratio	Lower	Upper
172	100		
171	34.7	26.5	39.7
170	23.4	18.8	28.2

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

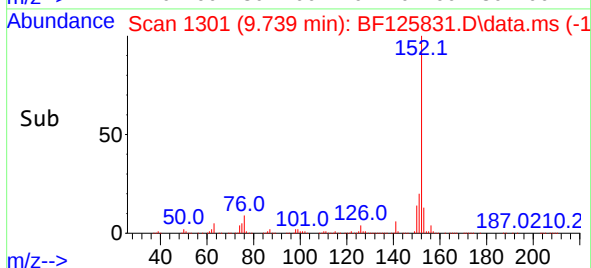
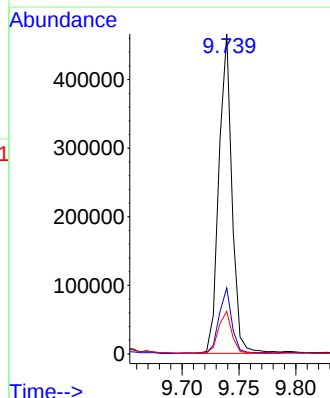
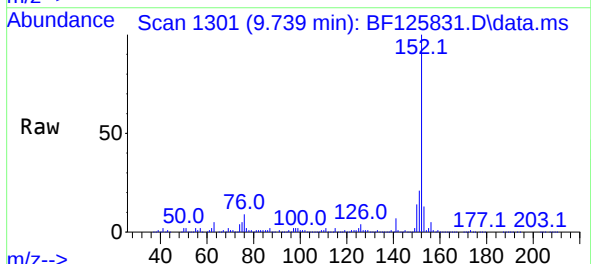
Manual Integrations
APPROVED

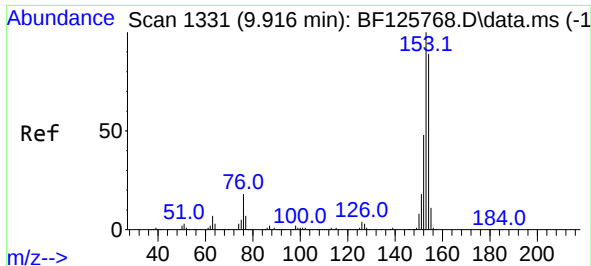
mohammad
10/14/2021 10:55:31 AM



#49
Acenaphthylene
Concen: 13.50 ng
RT: 9.739 min Scan# 1301
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:	152	Resp:	373652
Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.7	23.5
153	13.3	9.8	14.8





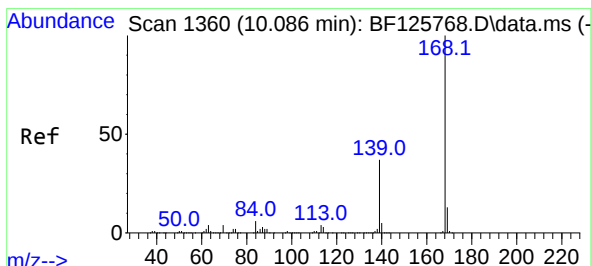
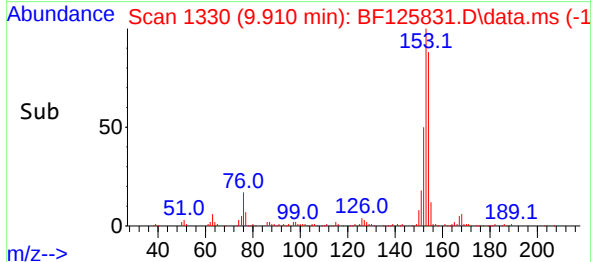
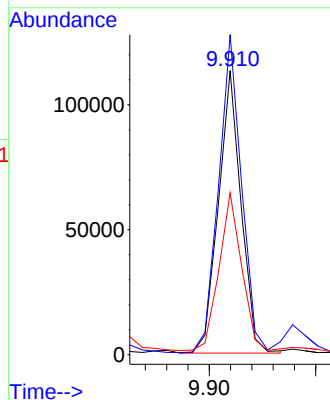
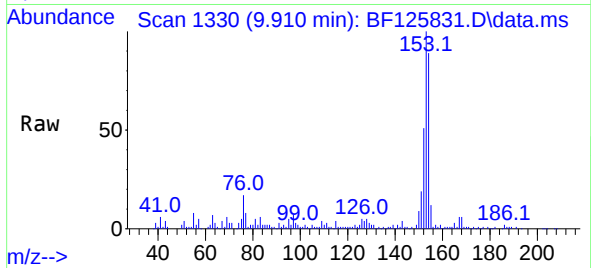
#52
Acenaphthene
Concen: 4.81 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:	154	Resp:	83179
Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.4	134.2
152	57.0	40.5	60.7

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

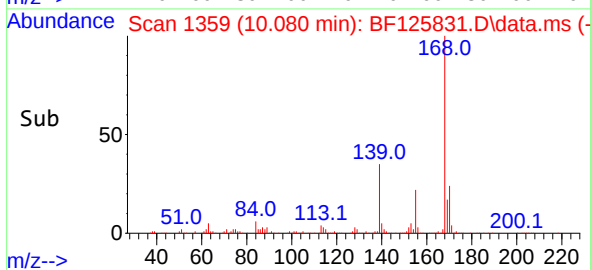
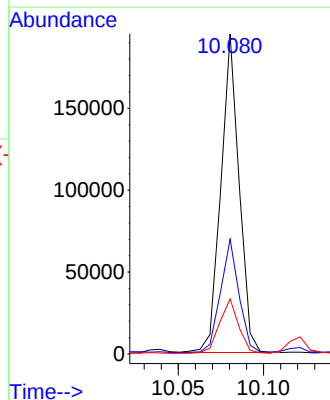
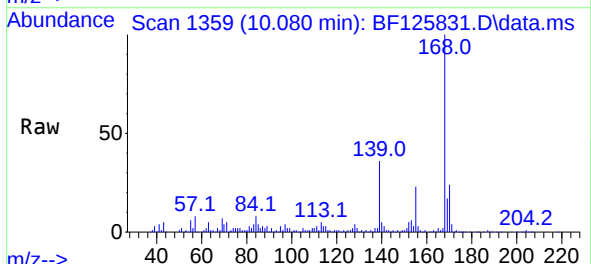
Manual Integrations
APPROVED

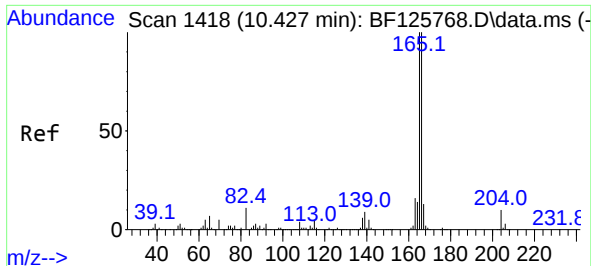
mohammad
10/14/2021 10:55:31 AM



#55
Dibenzofuran
Concen: 5.59 ng
RT: 10.080 min Scan# 1359
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

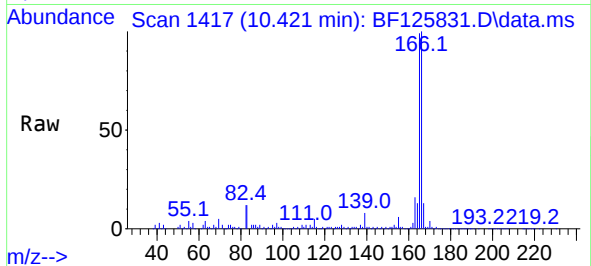
Tgt Ion:	168	Resp:	144637
Ion	Ratio	Lower	Upper
168	100		
139	35.9	32.7	49.1
169	17.2	11.2	16.8#





#58
Fluorene
Concen: 13.97 ng
RT: 10.421 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

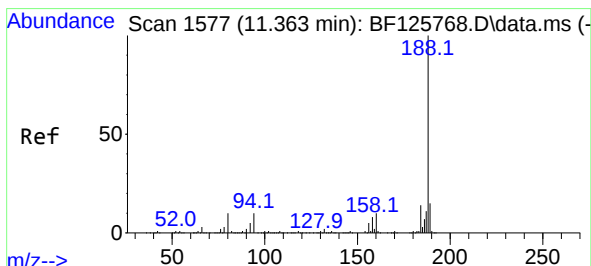
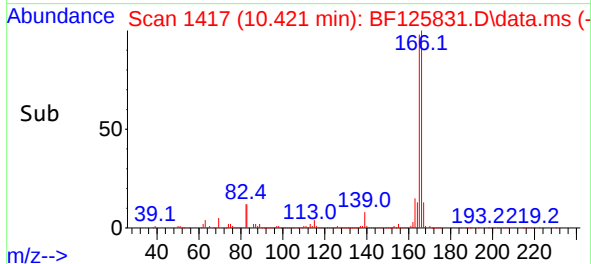
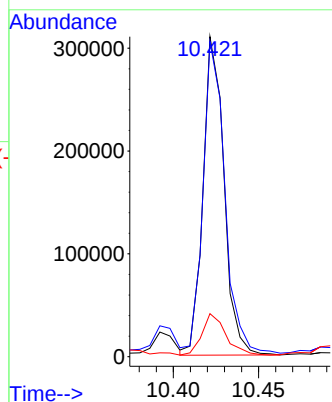
Instrument :
BNA_F
ClientSampleId :
CL-02-101221



Tgt Ion:166 Resp: 265012
Ion Ratio Lower Upper
166 100
165 98.5 78.1 117.1
167 13.4 11.1 16.7

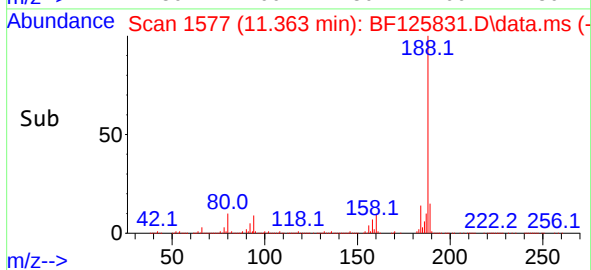
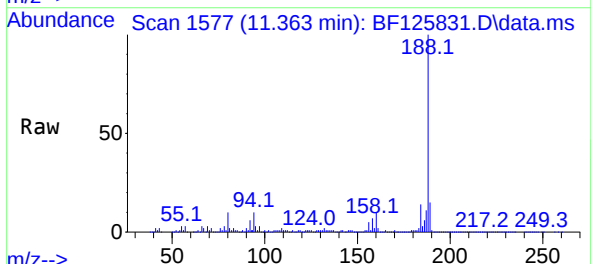
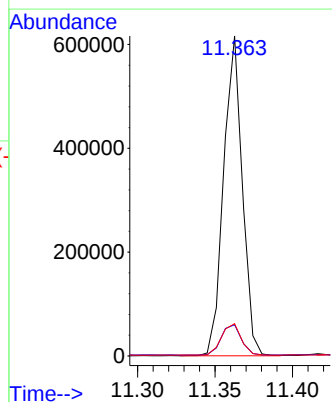
Manual Integrations
APPROVED

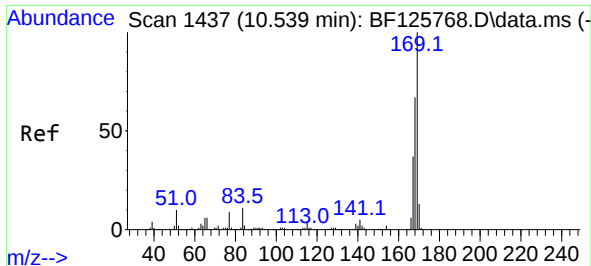
mohammad
10/14/2021 10:55:31 AM



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

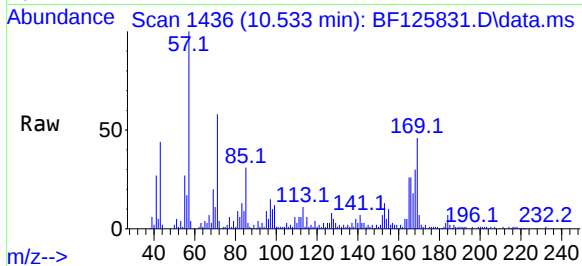
Tgt Ion:188 Resp: 516348
Ion Ratio Lower Upper
188 100
94 9.7 6.7 10.1
80 10.1 7.5 11.3





#66
n-Nitrosodiphenylamine
Concen: 2.33 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

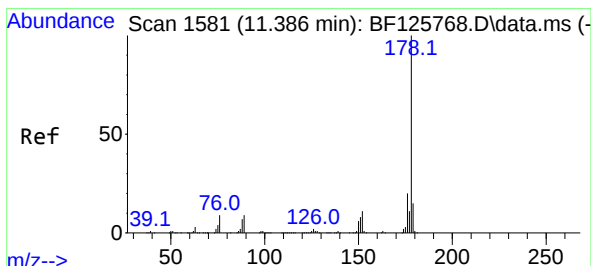
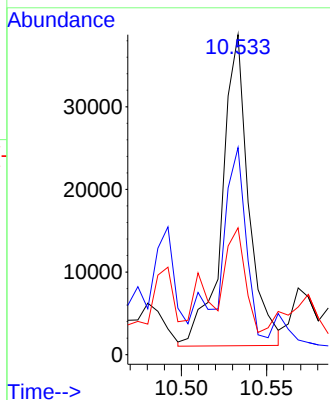
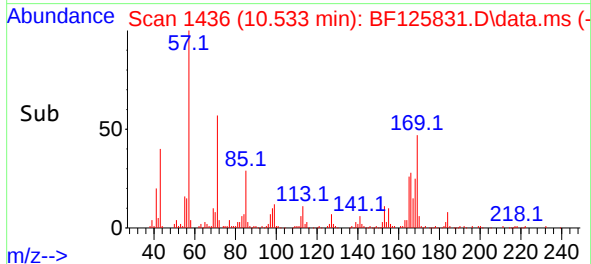
Instrument :
BNA_F
ClientSampled :
CL-02-101221



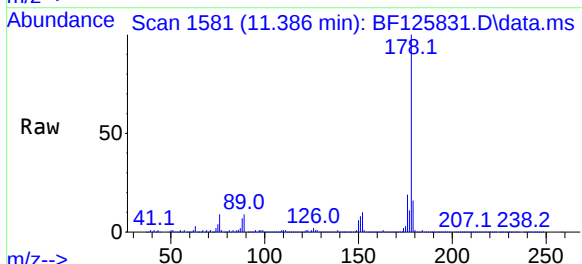
Tgt Ion:169 Resp: 41002
Ion Ratio Lower Upper
169 100
168 64.7 50.8 76.2
167 39.7 28.8 43.2

Manual Integrations
APPROVED

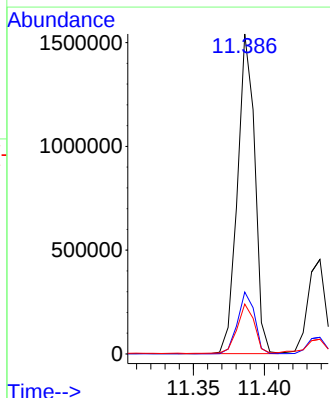
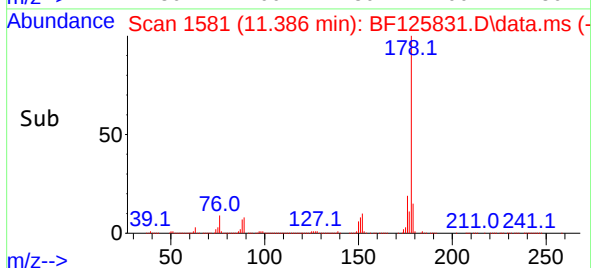
mohammad
10/14/2021 10:55:31 AM

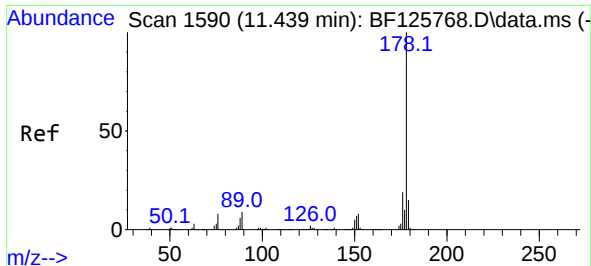


#71
Phenanthrene
Concen: 47.42 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

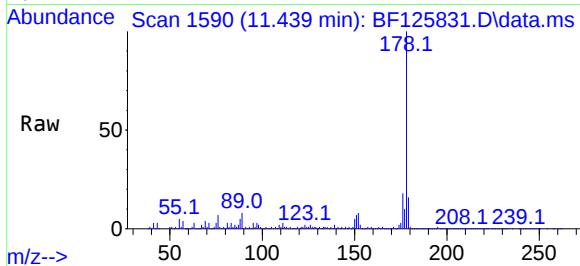


Tgt Ion:178 Resp: 1309990
Ion Ratio Lower Upper
178 100
176 19.3 14.7 22.1
179 15.6 11.5 17.3

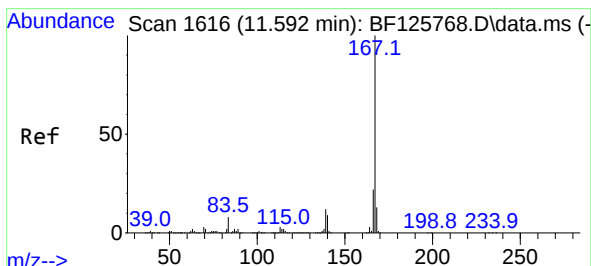
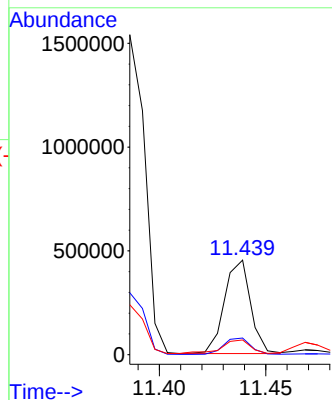
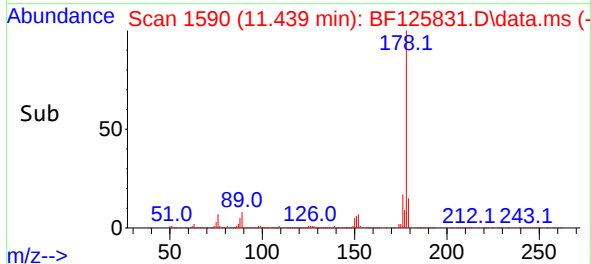




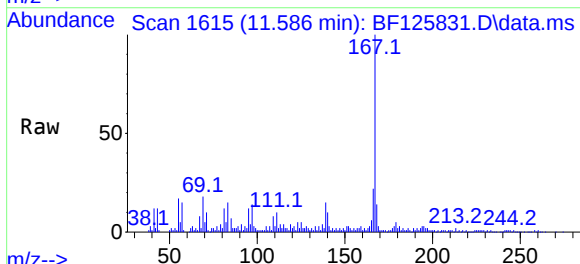
#72
 Anthracene
 Concen: 13.91 ng
 RT: 11.439 min Scan# 1590
 Delta R.T. -0.000 min
 Lab File: BF125831.D
 Acq: 13 Oct 2021 17:47



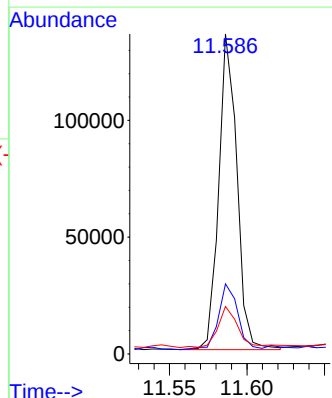
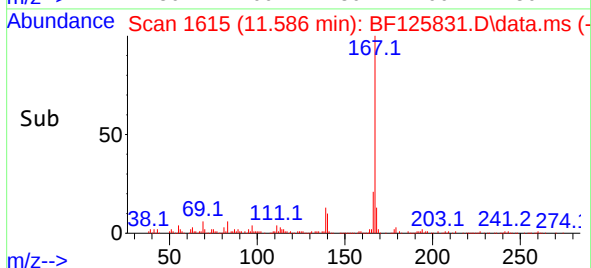
Tgt Ion:178 Resp: 383927
 Ion Ratio Lower Upper
 178 100
 176 17.5 14.3 21.5
 179 15.6 12.2 18.4



#73
 Carbazole
 Concen: 4.29 ng
 RT: 11.586 min Scan# 1615
 Delta R.T. -0.006 min
 Lab File: BF125831.D
 Acq: 13 Oct 2021 17:47



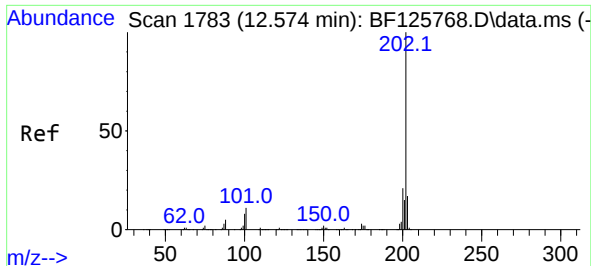
Tgt Ion:167 Resp: 110212
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.4 26.0
 139 14.9 11.0 16.4



Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101221

Manual Integrations
 APPROVED

mohammad
 10/14/2021 10:55:31 AM



#75
Fluoranthene
Concen: 67.04 ng
RT: 12.580 min Scan# 1784
Delta R.T. 0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

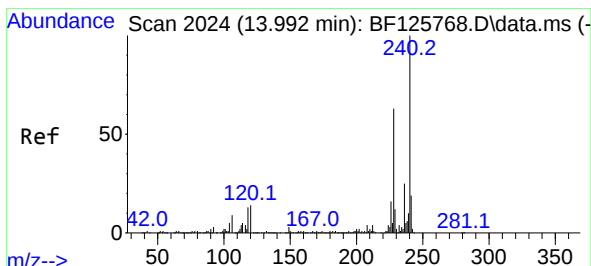
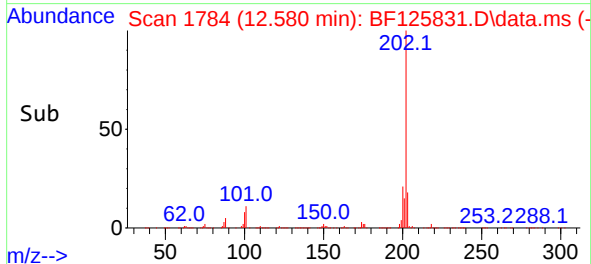
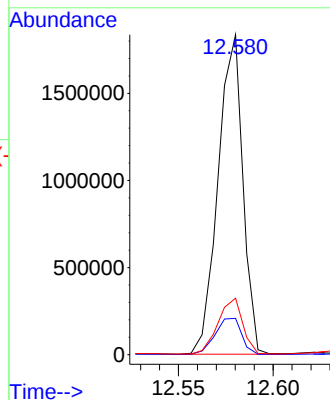
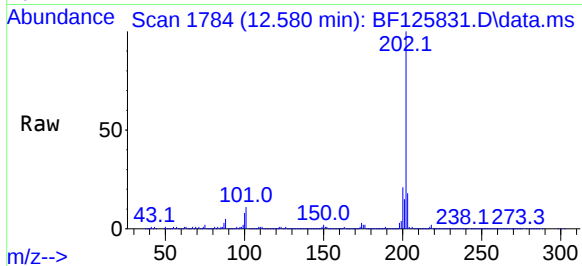
Tgt Ion:202 Resp: 1671268

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	30.7
203	17.7	0.0	36.3

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

Manual Integrations
APPROVED

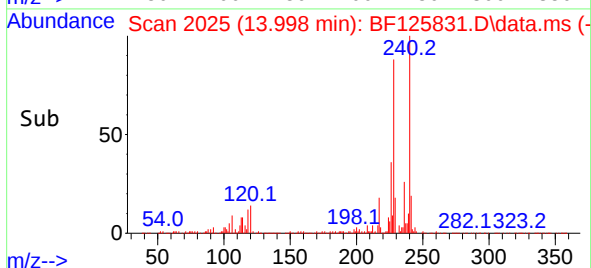
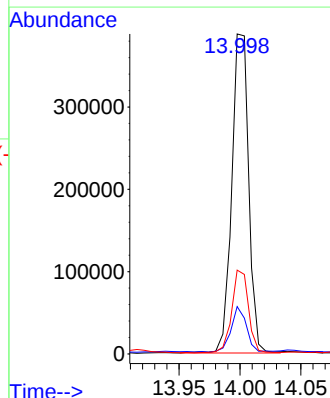
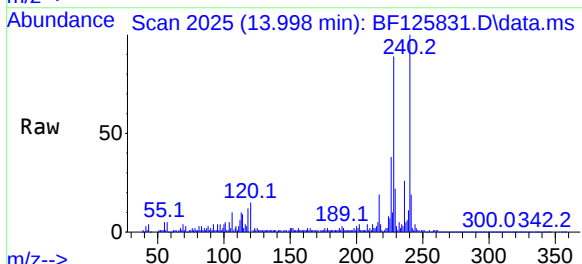
mohammad
10/14/2021 10:55:31 AM

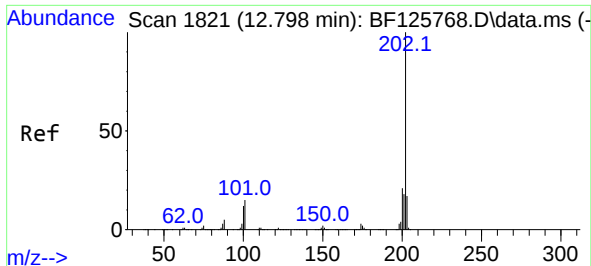


#76
Chrysene-d12
Concen: 20.00 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:240 Resp: 374491

Ion	Ratio	Lower	Upper
240	100		
120	14.8	10.8	16.2
236	26.2	21.6	32.4





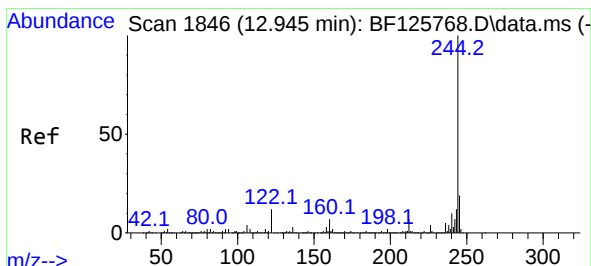
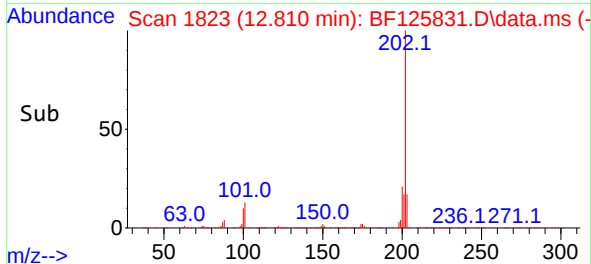
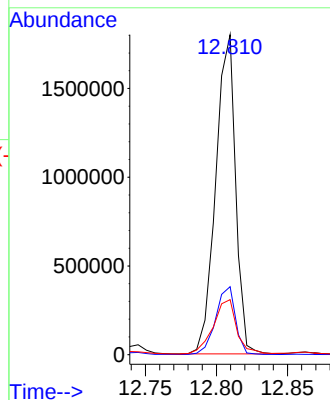
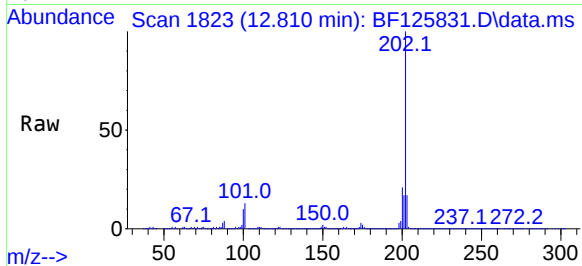
#78
Pyrene
Concen: 45.96 ng
RT: 12.810 min Scan# 1823
Delta R.T. 0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:202 Resp: 1748706
Ion Ratio Lower Upper
202 100
200 21.3 15.3 22.9
203 17.2 13.4 20.0

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

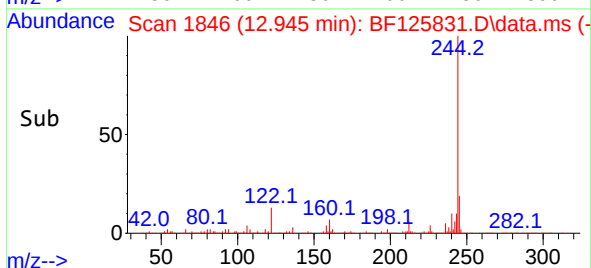
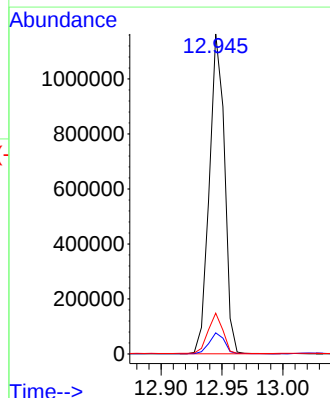
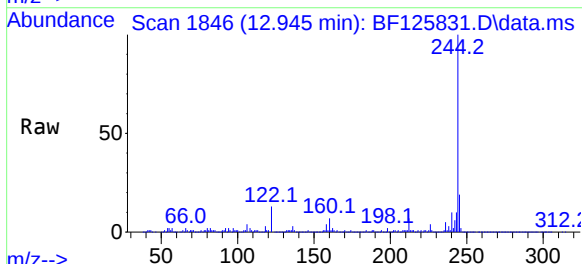
Manual Integrations
APPROVED

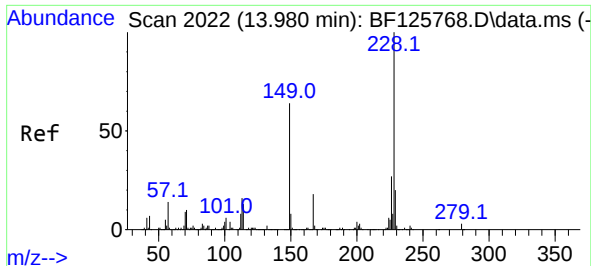
mohammad
10/14/2021 10:55:31 AM



#79
Terphenyl-d14
Concen: 41.06 ng
RT: 12.945 min Scan# 1846
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:244 Resp: 1009500
Ion Ratio Lower Upper
244 100
212 6.6 5.9 8.9
122 12.8 9.0 13.4





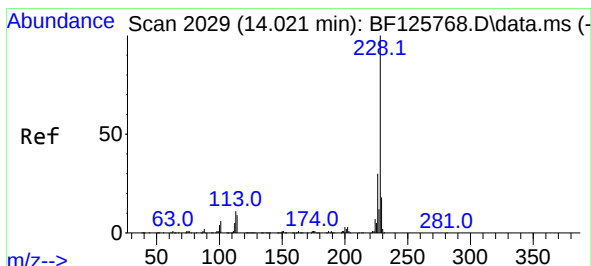
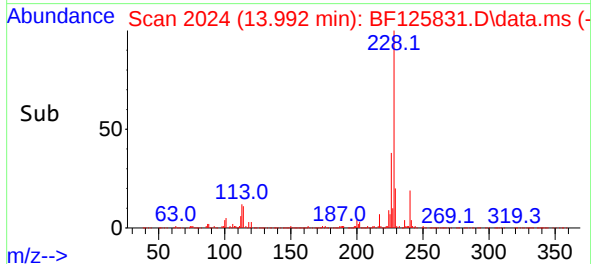
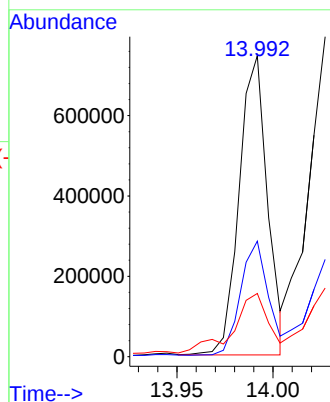
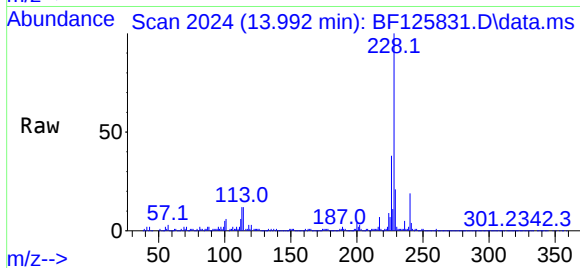
#81
Benzo(a)anthracene
Concen: 31.39 ng m
RT: 13.992 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:228 Resp: 762560
Ion Ratio Lower Upper
228 100
226 38.4 21.6 32.4#
229 21.0 15.6 23.4

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

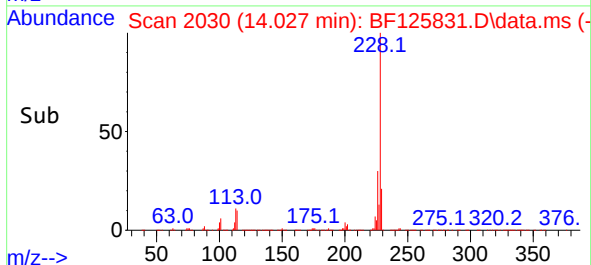
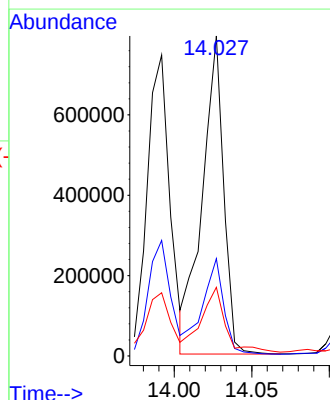
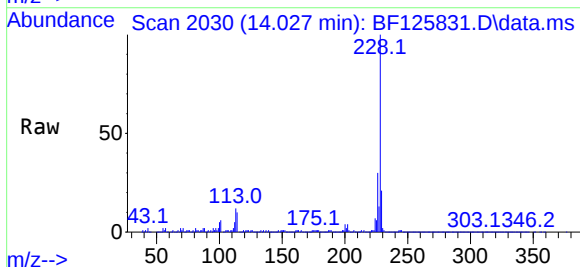
Manual Integrations
APPROVED

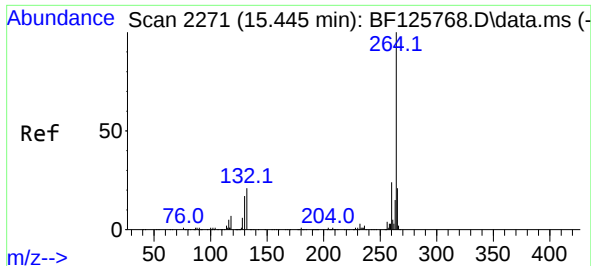
mohammad
10/14/2021 10:55:31 AM



#83
Chrysene
Concen: 31.74 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

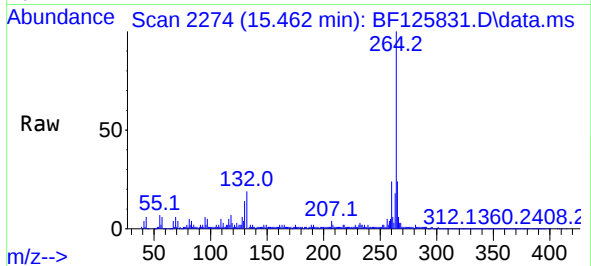
Tgt Ion:228 Resp: 762350
Ion Ratio Lower Upper
228 100
226 30.4 22.6 34.0
229 21.4 15.9 23.9





#86
Perylene-d12
Concen: 20.00 ng
RT: 15.462 min Scan# 2274
Delta R.T. 0.012 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

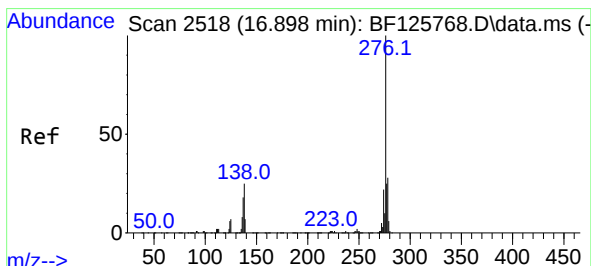
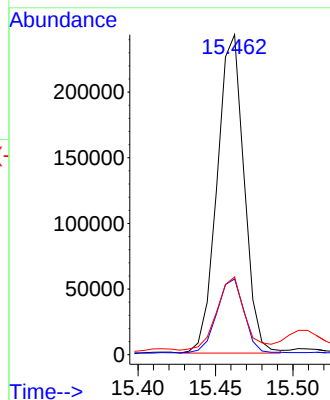
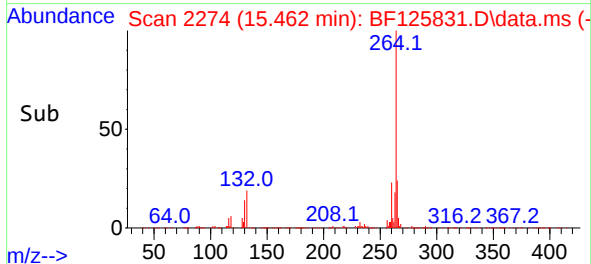
Instrument :
BNA_F
ClientSampleId :
CL-02-101221



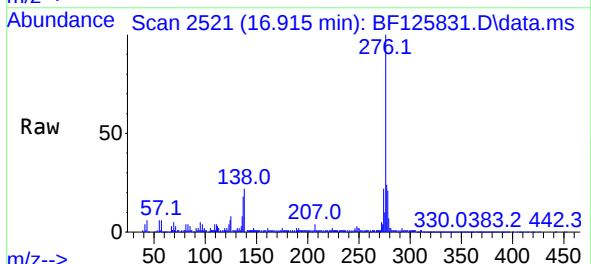
Tgt Ion:264 Resp: 293411
Ion Ratio Lower Upper
264 100
260 23.7 19.6 29.4
265 24.3 17.2 25.8

Manual Integrations
APPROVED

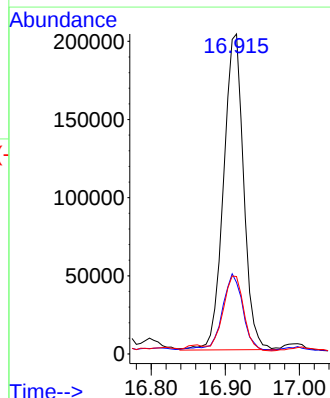
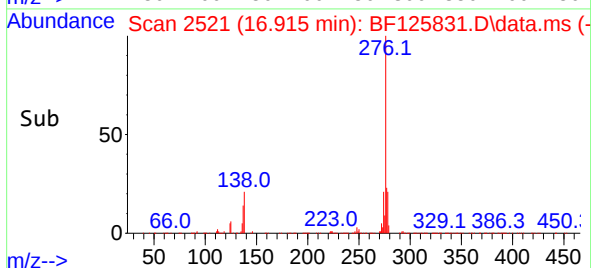
mohammad
10/14/2021 10:55:31 AM

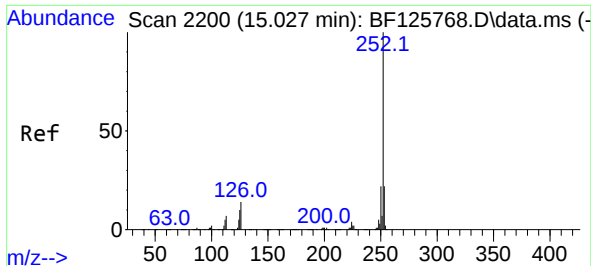


#87
Indeno(1,2,3-cd)pyrene
Concen: 16.98 ng
RT: 16.915 min Scan# 2521
Delta R.T. 0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



Tgt Ion:276 Resp: 380180
Ion Ratio Lower Upper
276 100
138 24.8 24.1 36.1
277 24.6 18.8 28.2





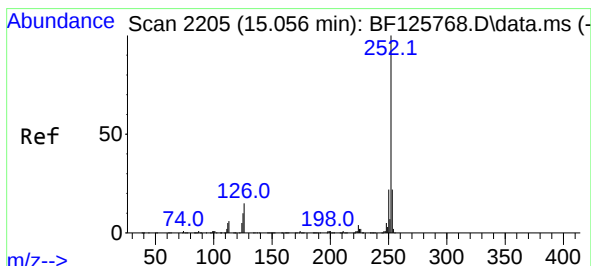
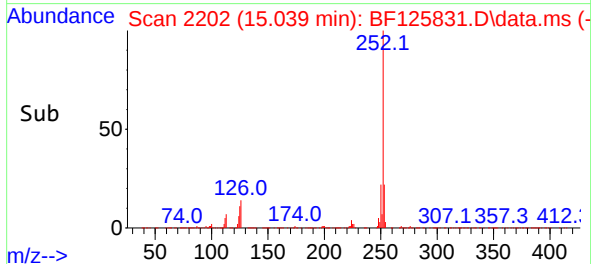
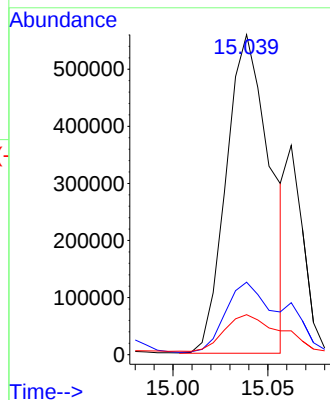
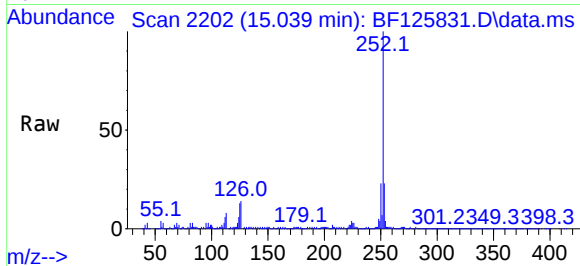
#88
Benzo(b)fluoranthene
Concen: 54.13 ng m
RT: 15.039 min Scan# 2202
Delta R.T. 0.012 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:252 Resp: 896740
Ion Ratio Lower Upper
252 100
253 22.7 16.8 25.2
125 12.5 9.8 14.8

Instrument :
BNA_F
ClientSampleId :
CL-02-101221

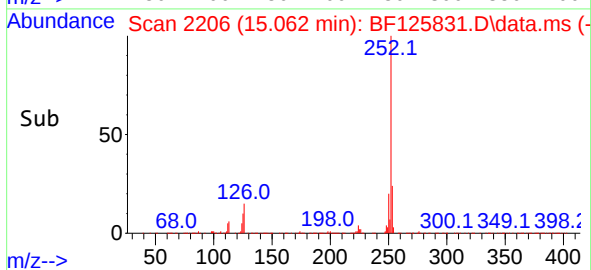
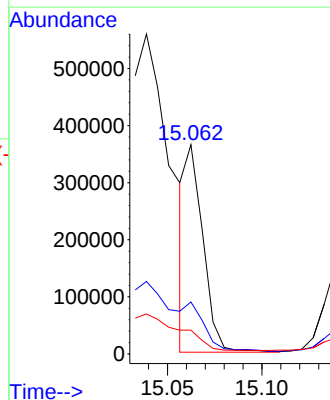
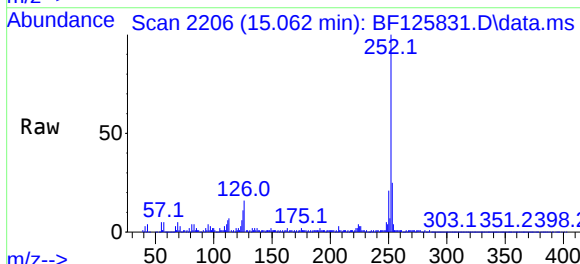
Manual Integrations
APPROVED

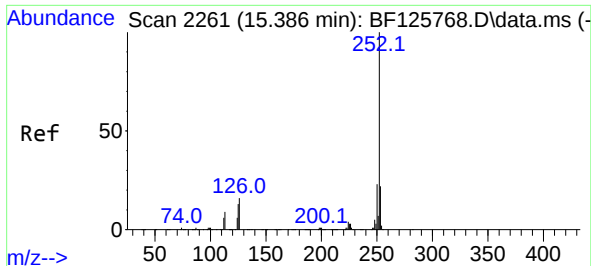
mohammad
10/14/2021 10:55:31 AM



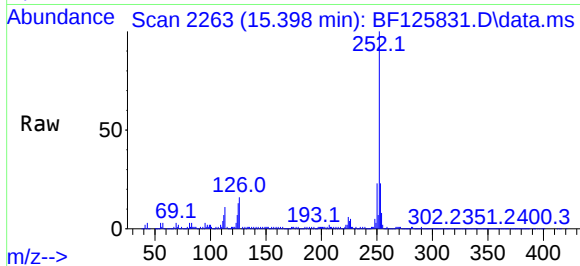
#89
Benzo(k)fluoranthene
Concen: 13.59 ng m
RT: 15.062 min Scan# 2206
Delta R.T. -0.000 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47

Tgt Ion:252 Resp: 231090
Ion Ratio Lower Upper
252 100
253 24.9 17.8 26.8
125 11.4 7.2 10.8#

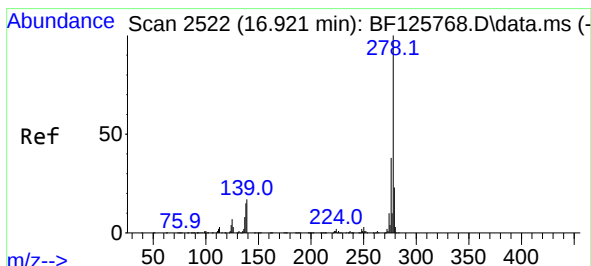
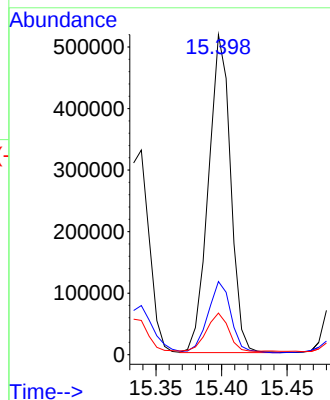
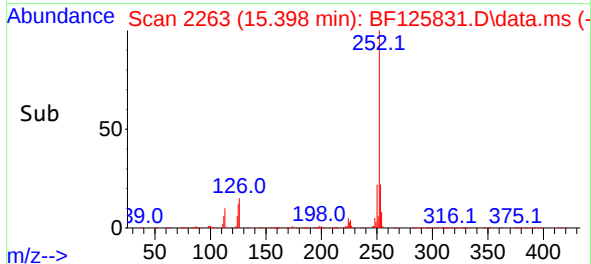




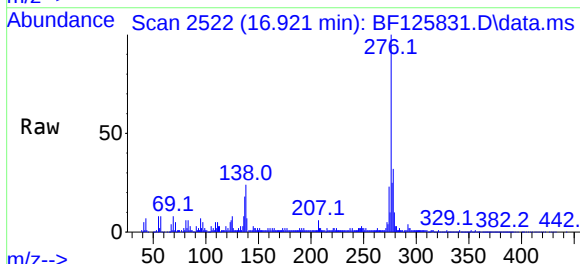
#90
Benzo(a)pyrene
Concen: 41.38 ng
RT: 15.398 min Scan# 2263
Delta R.T. 0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



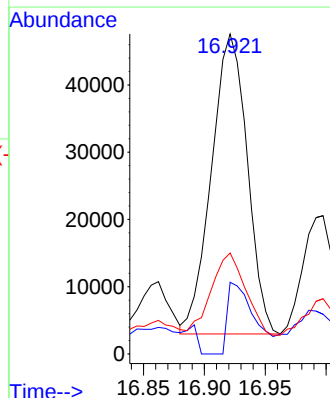
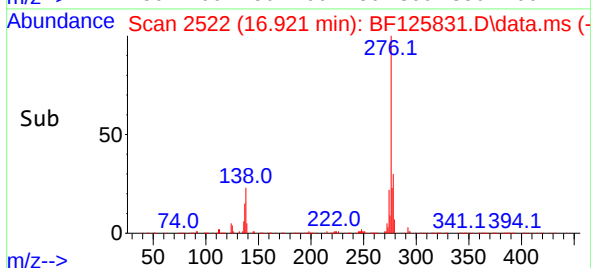
Tgt Ion:252 Resp: 607039
Ion Ratio Lower Upper
252 100
253 22.8 18.4 27.6
125 13.0 9.9 14.9



#91
Dibenzo(a,h)anthracene
Concen: 4.94 ng
RT: 16.921 min Scan# 2522
Delta R.T. -0.006 min
Lab File: BF125831.D
Acq: 13 Oct 2021 17:47



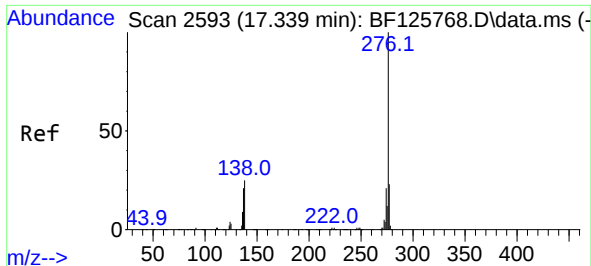
Tgt Ion:278 Resp: 91304
Ion Ratio Lower Upper
278 100
139 22.4 14.9 22.3#
279 31.5 19.7 29.5#



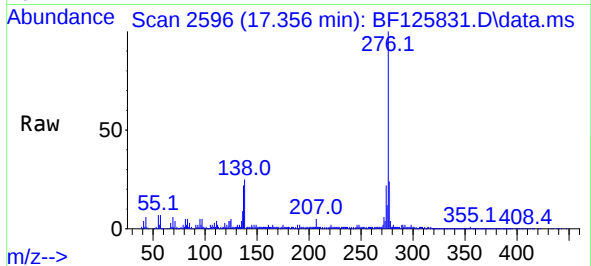
Instrument :
BNA_F
ClientSampleId :
CL-02-101221

Manual Integrations
APPROVED

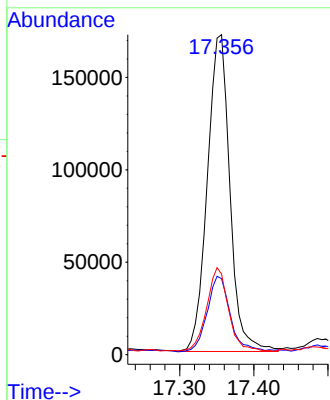
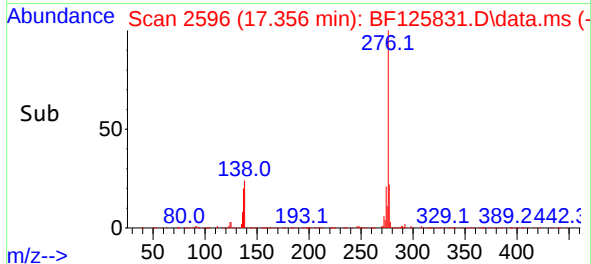
mohammad
10/14/2021 10:55:31 AM



#92
 Benzo(g,h,i)perylene
 Concen: 19.23 ng
 RT: 17.356 min Scan# 2596
 Delta R.T. 0.006 min
 Lab File: BF125831.D
 Acq: 13 Oct 2021 17:47



Tgt Ion:	276	Resp:	362706
Ion Ratio	Lower	Upper	
276	100		
277	23.8	22.0	33.0
138	25.2	22.2	33.4



Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101221

Manual Integrations
 APPROVED

mohammad
 10/14/2021 10:55:31 AM