

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102922\
 Data File : BM037275.D
 Acq On : 29 Oct 2022 17:39
 Operator : CG/JU
 Sample : N5273-01MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIDEN-GAS-PIPELINEMS

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/31/2022
 Supervised By : Jagrut Upadhyay 11/01/2022

Quant Time: Oct 31 02:06:52 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 31 01:34:15 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.875	152	512174	20.000	ng	0.00
21) Naphthalene-d8	10.675	136	1938693	20.000	ng	0.00
39) Acenaphthene-d10	14.504	164	992029	20.000	ng	0.00
64) Phenanthrene-d10	17.245	188	1655430	20.000	ng	0.00
76) Chrysene-d12	21.421	240	1330783	20.000	ng	0.00
86) Perylene-d12	23.780	264	1474298	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	3570702	120.445	ng	0.00
7) Phenol-d6	7.051	99	4453525	110.686	ng	0.00
23) Nitrobenzene-d5	9.045	82	2585825	67.294	ng	0.00
42) 2,4,6-Tribromophenol	15.998	330	1271446	108.757	ng	0.00
45) 2-Fluorobiphenyl	13.133	172	4729992	63.352	ng	0.00
79) Terphenyl-d14	19.862	244	4584787	61.781	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.328	88	472631	38.933	ng	99
3) Pyridine	3.734	79	1322332	36.562	ng	99
4) n-Nitrosodimethylamine	3.646	42	691225	43.727	ng	100
6) Aniline	7.204	93	2065195	41.986	ng	100
8) 2-Chlorophenol	7.440	128	1596097	44.235	ng	100
9) Benzaldehyde	7.016	77	1079286	52.993	ng	99
10) Phenol	7.075	94	1965688	43.600	ng	99
11) bis(2-Chloroethyl)ether	7.304	93	1550951	42.907	ng	99
12) 1,3-Dichlorobenzene	7.757	146	1722912	43.698	ng	99
13) 1,4-Dichlorobenzene	7.910	146	1758277	43.232	ng	99
14) 1,2-Dichlorobenzene	8.222	146	1686771	43.183	ng	98
15) Benzyl Alcohol	8.122	79	1224077m	42.553	ng	
16) 2,2'-oxybis(1-Chloropr...	8.404	45	2151572	41.752	ng	100
17) 2-Methylphenol	8.328	107	1230957	41.779	ng	100
18) Hexachloroethane	8.945	117	643344	44.854	ng	99
19) n-Nitroso-di-n-propyla...	8.692	70	1110157	40.254	ng	99
20) 3+4-Methylphenols	8.657	107	1615037	39.907	ng	99
22) Acetophenone	8.704	105	2206000	43.778	ng	99
24) Nitrobenzene	9.086	77	1636206	42.000	ng	99
25) Isophorone	9.610	82	2816872	43.862	ng	100
26) 2-Nitrophenol	9.792	139	792055	45.415	ng	99
27) 2,4-Dimethylphenol	9.857	122	1261618	48.743	ng	99
28) bis(2-Chloroethoxy)met...	10.092	93	1855425	46.435	ng	100
29) 2,4-Dichlorophenol	10.328	162	1291197	43.458	ng	99
30) 1,2,4-Trichlorobenzene	10.539	180	1453301	43.134	ng	98
31) Naphthalene	10.728	128	4531439	41.256	ng	99
32) Benzoic acid	10.010	122	703480	32.500	ng	99
33) 4-Chloroaniline	10.845	127	1184878	27.082	ng	100
34) Hexachlorobutadiene	10.998	225	821059	43.641	ng	97
35) Caprolactam	11.651	113	340250	37.669	ng	99
36) 4-Chloro-3-methylphenol	11.969	107	1231378	40.217	ng	99
37) 2-Methylnaphthalene	12.333	142	3000118	40.314	ng	100
38) 1-Methylnaphthalene	12.551	142	2802236	38.537	ng	100
40) 1,2,4,5-Tetrachloroben...	12.698	216	1455867	48.810	ng	99
41) Hexachlorocyclopentadiene	12.675	237	1695100	119.279	ng	99
43) 2,4,6-Trichlorophenol	12.945	196	923907	44.996	ng	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.016	196	973949	42.999	ng	99
46) 1,1'-Biphenyl	13.345	154	3689727	46.090	ng	100
47) 2-Chloronaphthalene	13.386	162	2836083	44.518	ng	100
48) 2-Nitroaniline	13.598	65	771304	41.896	ng	100
49) Acenaphthylene	14.233	152	4266703	43.144	ng	100
50) Dimethylphthalate	13.974	163	3058354	40.362	ng	100
51) 2,6-Dinitrotoluene	14.098	165	668619	41.668	ng	97
52) Acenaphthene	14.569	154	2581009	42.216	ng	99
53) 3-Nitroaniline	14.427	138	496065	27.672	ng	99
54) 2,4-Dinitrophenol	14.633	184	589889	57.778	ng	95
55) Dibenzofuran	14.904	168	3923155	41.661	ng	100
56) 4-Nitrophenol	14.739	139	1139382	79.671	ng	99
57) 2,4-Dinitrotoluene	14.880	165	865933	41.011	ng	98
58) Fluorene	15.551	166	3231036	41.106	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.133	232	752075	39.614	ng	99
60) Diethylphthalate	15.333	149	2940601	39.929	ng	99
61) 4-Chlorophenyl-phenyle...	15.545	204	1547336	42.551	ng	98
62) 4-Nitroaniline	15.586	138	658654	36.635	ng	98
63) Azobenzene	15.839	77	2980831	41.086	ng	99
65) 4,6-Dinitro-2-methylph...	15.639	198	385727	34.925	ng	99
66) n-Nitrosodiphenylamine	15.763	169	2589150	46.272	ng	99
67) 4-Bromophenyl-phenylether	16.439	248	878562	47.293	ng	100
68) Hexachlorobenzene	16.551	284	1025110	45.597	ng	97
69) Atrazine	16.715	200	769625	54.665	ng	99
70) Pentachlorophenol	16.898	266	1130527	86.419	ng	99
71) Phenanthrene	17.292	178	4391961	42.763	ng	100
72) Anthracene	17.380	178	4338269	44.618	ng	100
73) Carbazole	17.657	167	3801398	42.622	ng	100
74) Di-n-butylphthalate	18.215	149	4457487	45.262	ng	100
75) Fluoranthene	19.303	202	4349118	40.060	ng	99
77) Benzidine	19.492	184	2203056	111.020	ng	99
78) Pyrene	19.662	202	4466621	43.648	ng	100
80) Butylbenzylphthalate	20.562	149	1726508	47.242	ng	98
81) Benzo(a)anthracene	21.403	228	4069623	42.954	ng	100
82) 3,3'-Dichlorobenzidine	21.345	252	1361517	48.929	ng	99
83) Chrysene	21.456	228	3829297	41.951	ng	99
84) Bis(2-ethylhexyl)phtha...	21.333	149	2494467	50.856	ng	97
85) Di-n-octyl phthalate	22.239	149	4100415	53.081	ng	100
87) Indeno(1,2,3-cd)pyrene	26.227	276	5506164	45.614	ng	100
88) Benzo(b)fluoranthene	23.062	252	4533292	44.291	ng	99
89) Benzo(k)fluoranthene	23.109	252	4359096	41.753	ng	99
90) Benzo(a)pyrene	23.674	252	4011619	48.104	ng	99
91) Dibenzo(a,h)anthracene	26.244	278	4703545	46.921	ng	99
92) Benzo(g,h,i)perylene	26.979	276	4490954	46.031	ng	100

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

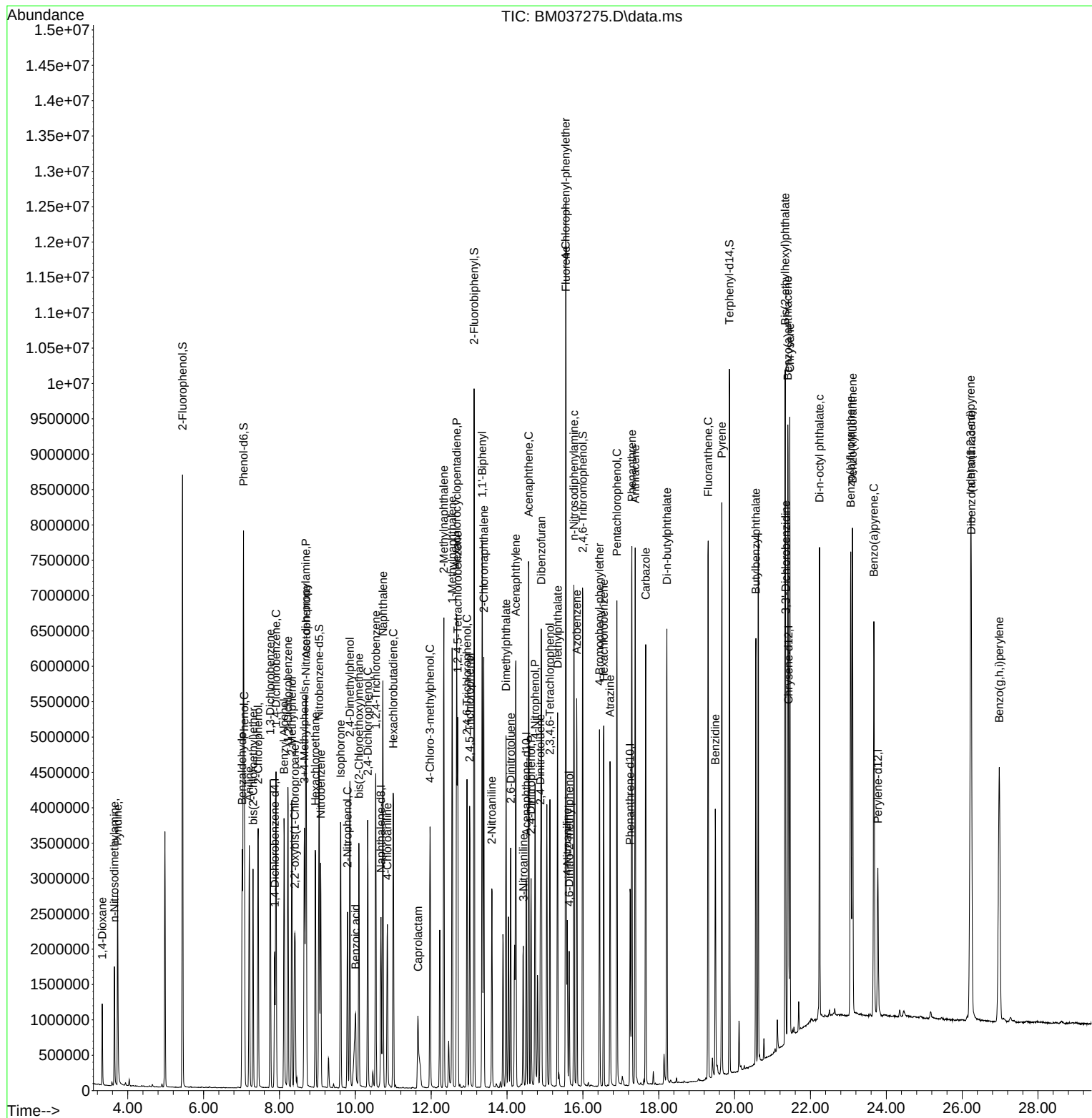
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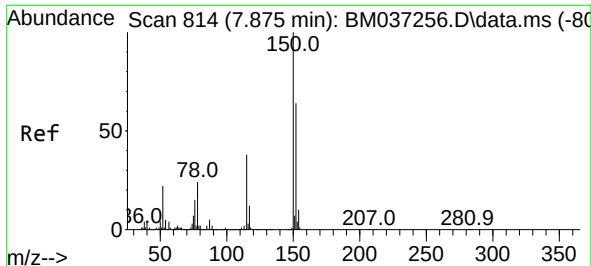
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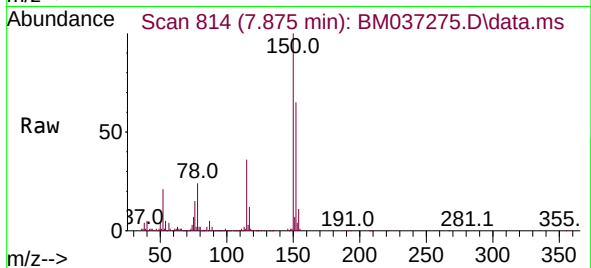
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.875 min Scan# 814
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

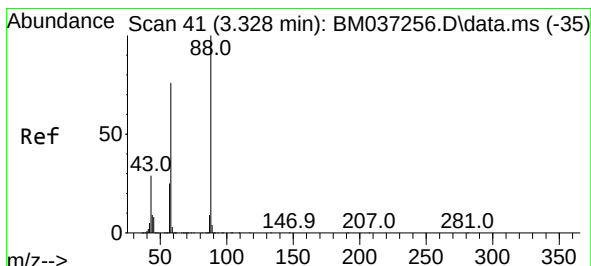
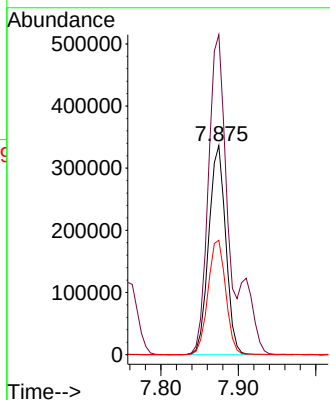
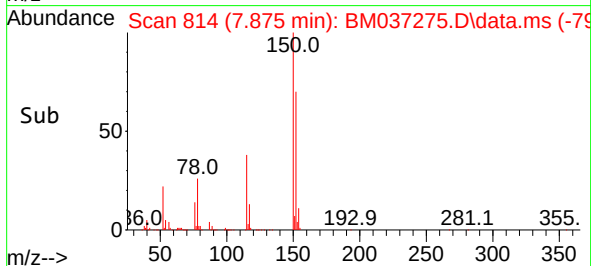
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:152 Resp: 512174
Ion Ratio Lower Upper
152 100
150 153.1 124.8 187.2
115 54.7 47.0 70.4

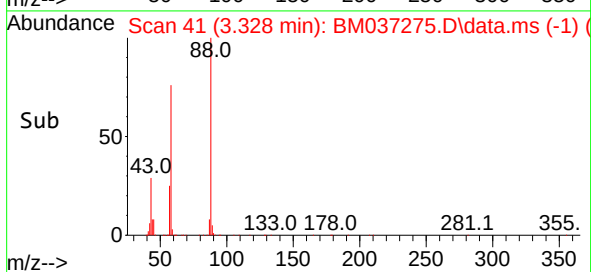
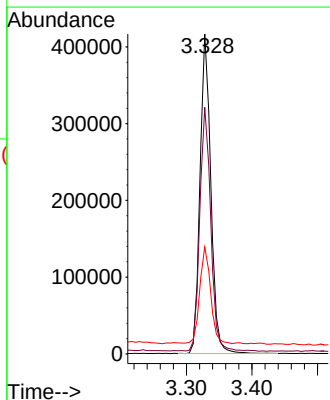
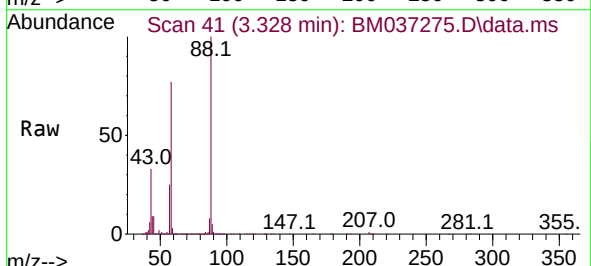
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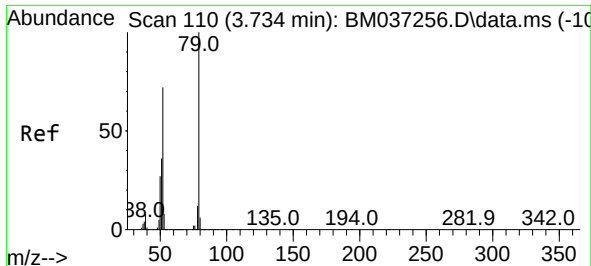
Reviewed By :Christian Giraldo 10/31/2022
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#2
1,4-Dioxane
Concen: 38.933 ng
RT: 3.328 min Scan# 41
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

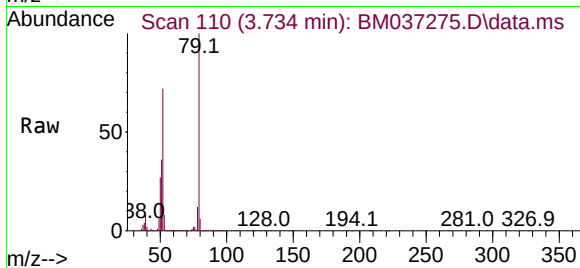
Tgt Ion: 88 Resp: 472631
Ion Ratio Lower Upper
88 100
58 77.9 63.5 95.3
43 30.4 24.2 36.4





#3
Pyridine
Concen: 36.562 ng
RT: 3.734 min Scan# 110
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

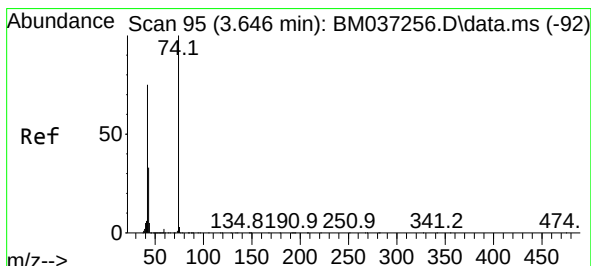
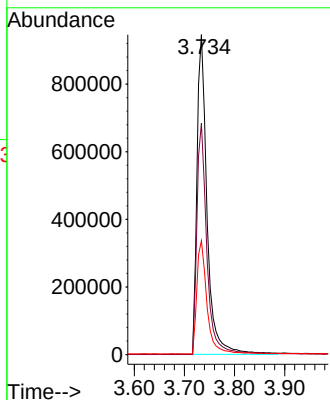
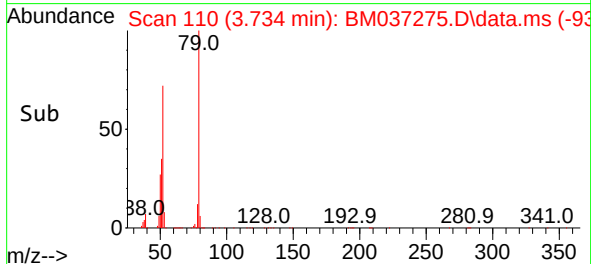
Instrument :
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LIDEN-GAS-PIPELINEMS



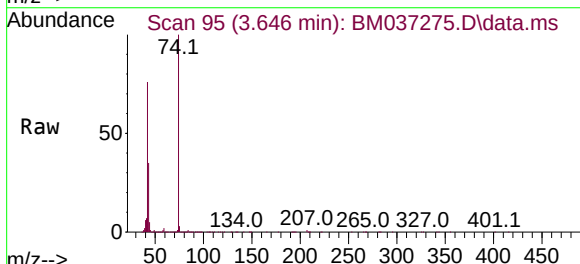
Tgt Ion: 79 Resp: 1322332
Ion Ratio Lower Upper
79 100
52 72.3 57.8 86.6
51 35.6 29.0 43.6

Manual Integrations
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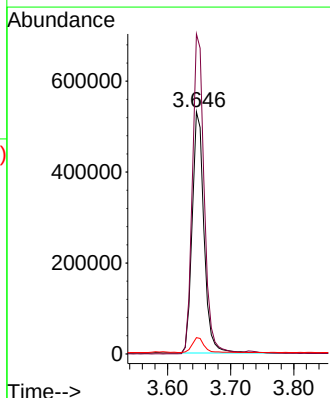
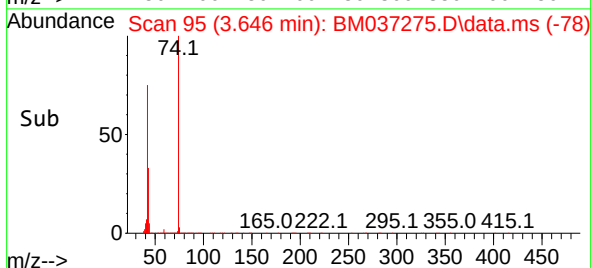
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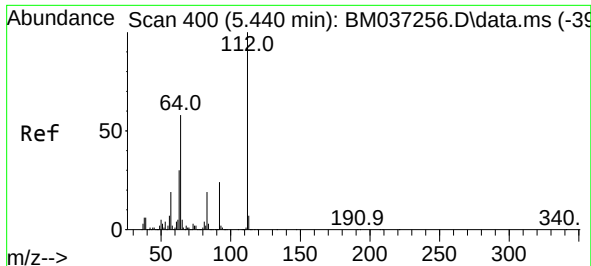


#4
n-Nitrosodimethylamine
Concen: 43.727 ng
RT: 3.646 min Scan# 95
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



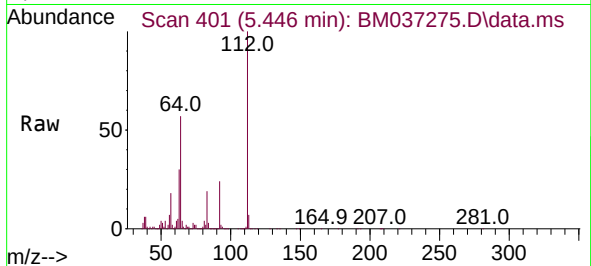
Tgt Ion: 42 Resp: 691225
Ion Ratio Lower Upper
42 100
74 132.2 106.2 159.2
44 6.7 5.4 8.0





#5
2-Fluorophenol
Concen: 120.445 ng
RT: 5.446 min Scan# 400
Delta R.T. 0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

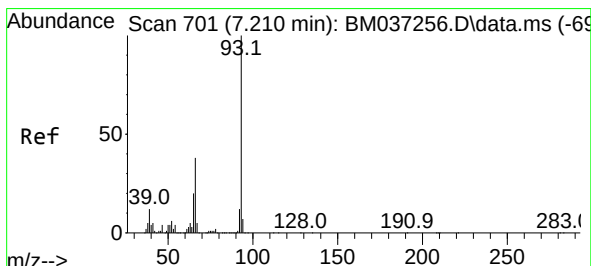
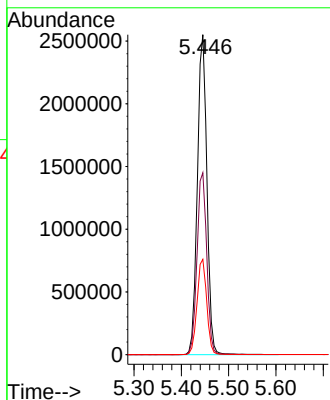
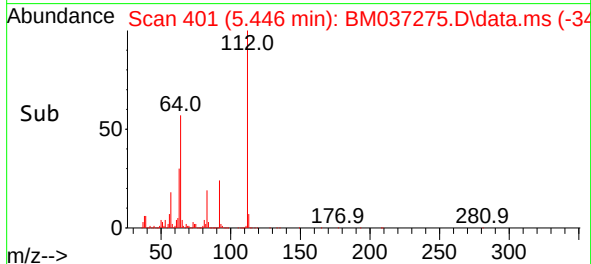
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



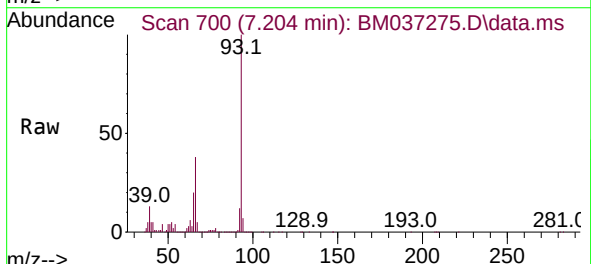
Tgt Ion:112 Resp: 3570702
Ion Ratio Lower Upper
112 100
64 56.8 46.8 70.2
63 29.8 24.4 36.6

Manual Integrations
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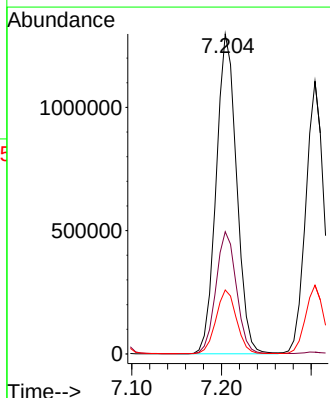
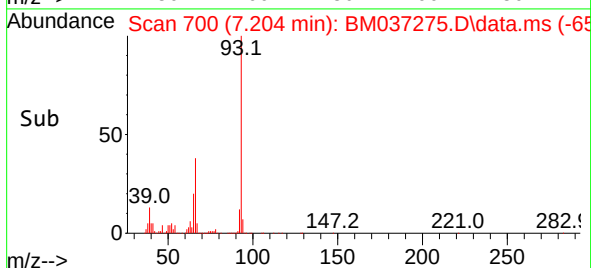
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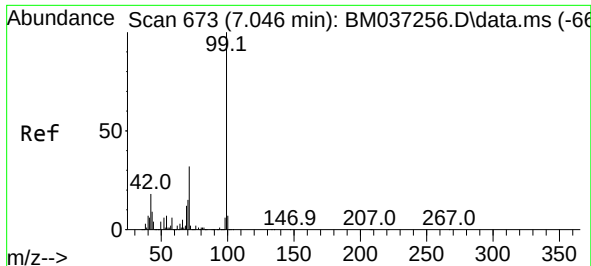


#6
Aniline
Concen: 41.986 ng
RT: 7.204 min Scan# 700
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



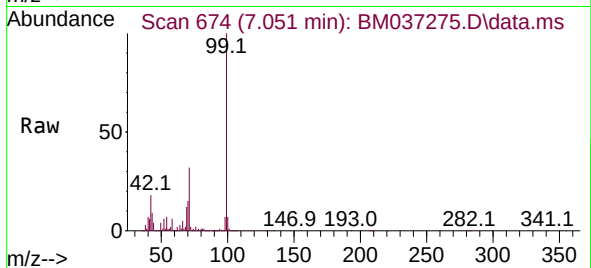
Tgt Ion: 93 Resp: 2065195
Ion Ratio Lower Upper
93 100
66 38.2 30.4 45.6
65 20.0 16.2 24.2





#7
Phenol-d6
Concen: 110.686 ng
RT: 7.051 min Scan# 61
Delta R.T. 0.005 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

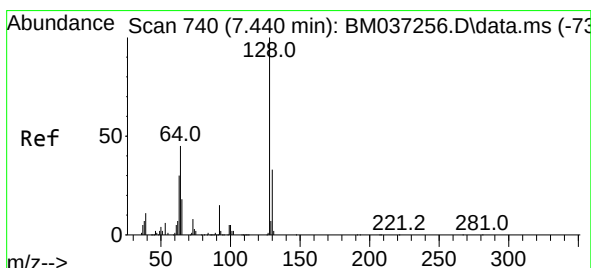
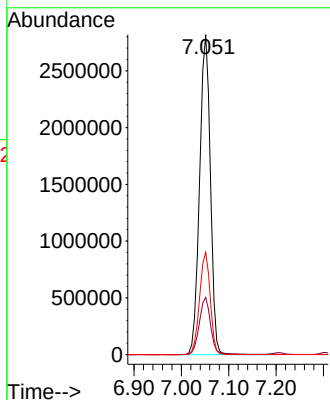
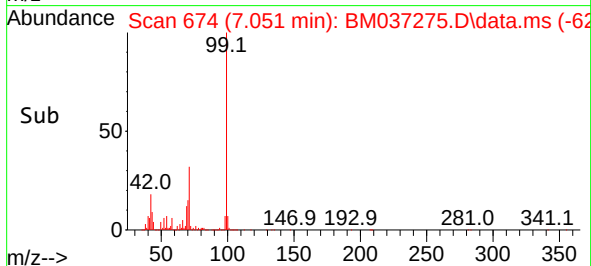
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Tgt Ion: 99 Resp: 4453525
Ion Ratio Lower Upper
99 100
42 17.9 14.8 22.2
71 31.9 25.6 38.4

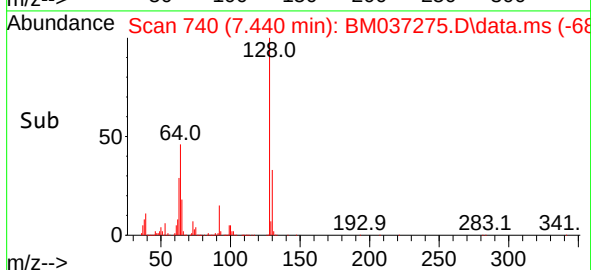
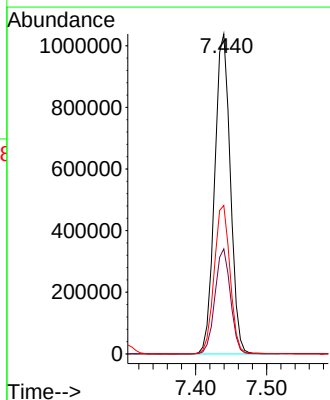
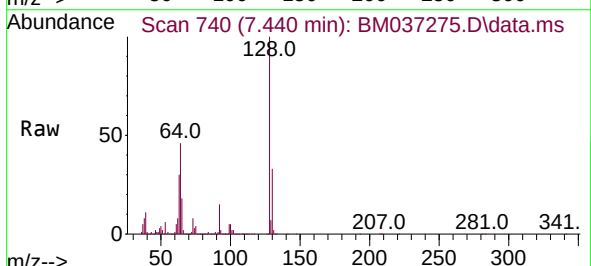
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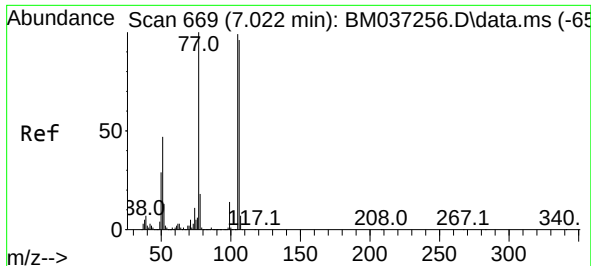
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#8
2-Chlorophenol
Concen: 44.235 ng
RT: 7.440 min Scan# 740
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

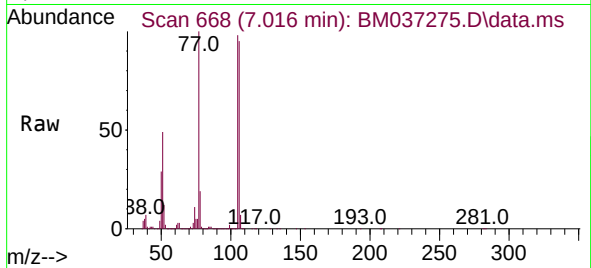
Tgt Ion:128 Resp: 1596097
Ion Ratio Lower Upper
128 100
130 32.8 12.7 52.7
64 46.4 26.4 66.4





#9
Benzaldehyde
Concen: 52.993 ng
RT: 7.016 min Scan# 669
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

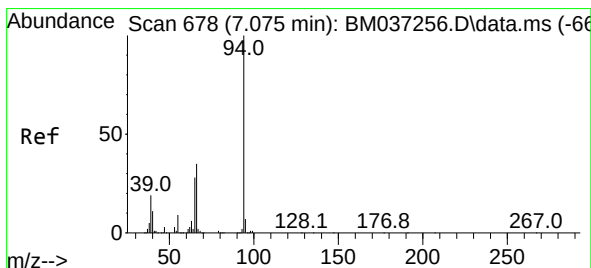
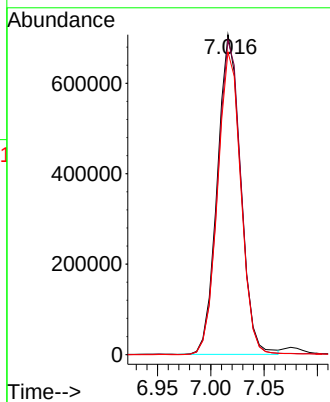
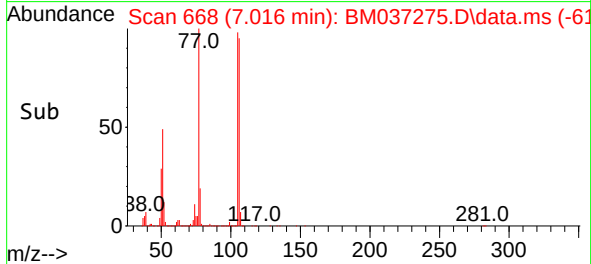
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Tgt Ion: 77 Resp: 1079286
Ion Ratio Lower Upper
77 100
105 98.2 78.6 118.6
106 94.6 75.8 115.8

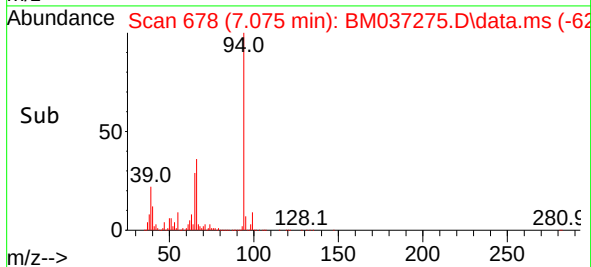
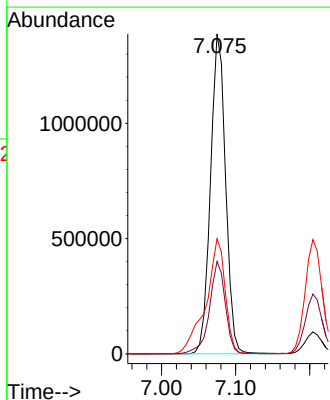
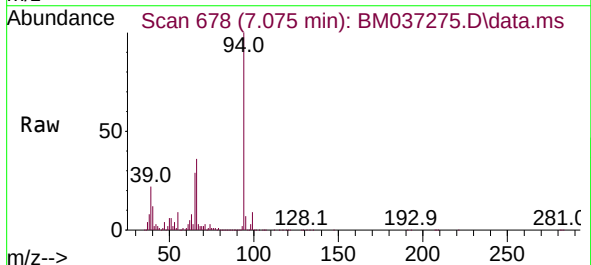
Manual Integrations
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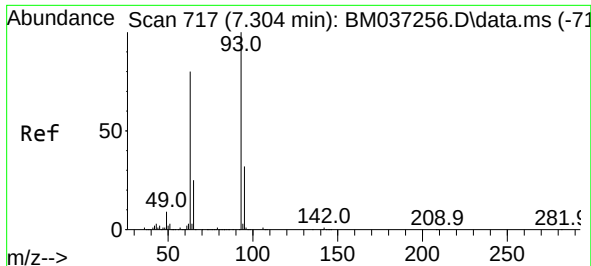
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#10
Phenol
Concen: 43.600 ng
RT: 7.075 min Scan# 678
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

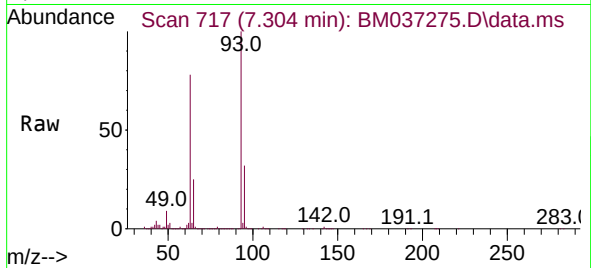
Tgt Ion: 94 Resp: 1965688
Ion Ratio Lower Upper
94 100
65 28.9 8.1 48.1
66 36.0 15.5 55.5





#11
bis(2-Chloroethyl)ether
Concen: 42.907 ng
RT: 7.304 min Scan# 717
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS

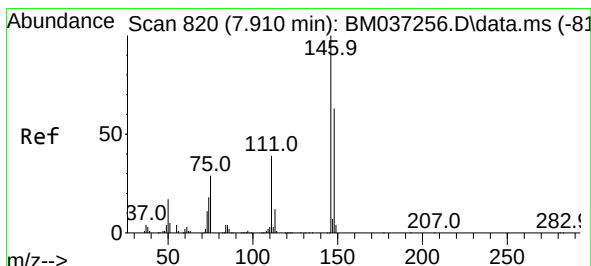
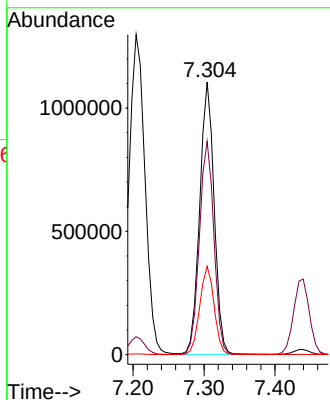
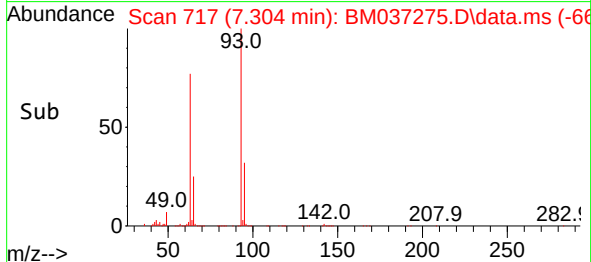


Tgt Ion: 93 Resp: 155095

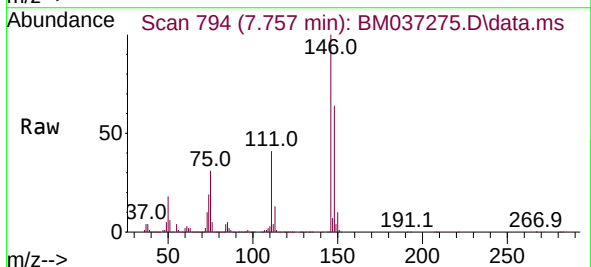
Ion	Ratio	Lower	Upper
93	100		
63	78.2	59.3	99.3
95	32.4	12.0	52.0

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Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

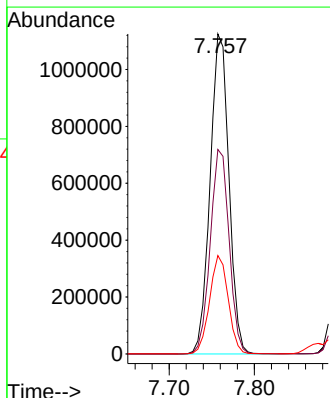
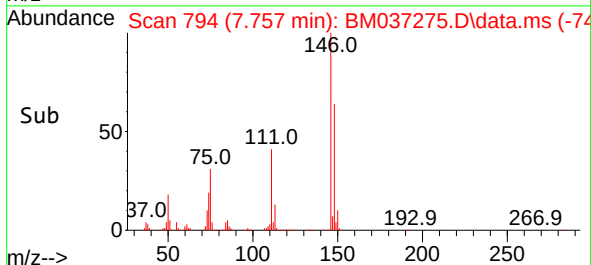


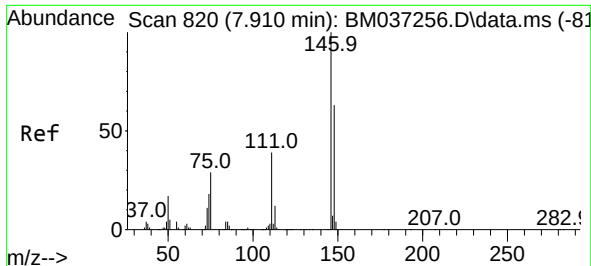
#12
1,3-Dichlorobenzene
Concen: 43.698 ng
RT: 7.757 min Scan# 794
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



Tgt Ion:146 Resp: 1722912

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.5	75.7
75	30.7	24.5	36.7





#13

1,4-Dichlorobenzene

Concen: 43.232 ng

RT: 7.910 min Scan# 81

Delta R.T. -0.000 min

Lab File: BM037275.D

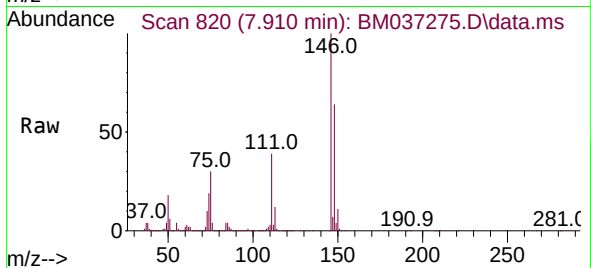
Acq: 29 Oct 2022 17:39

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMS



Tgt Ion:146 Resp: 175827

Ion Ratio Lower Upper

146 100

148 64.4 50.5 75.7

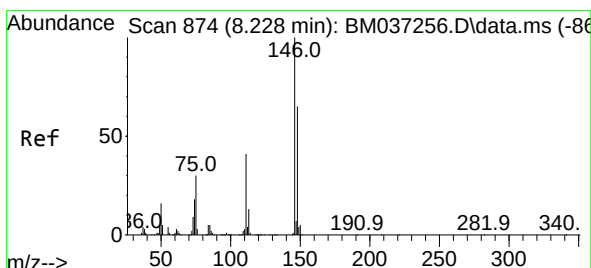
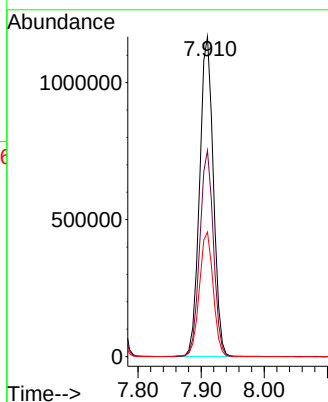
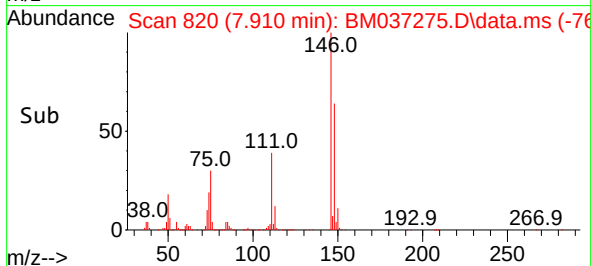
111 38.9 31.1 46.7

Manual Integrations

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Supervised By :Jagrut Upadhyay 11/01/2022



#14

1,2-Dichlorobenzene

Concen: 43.183 ng

RT: 8.222 min Scan# 873

Delta R.T. -0.006 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

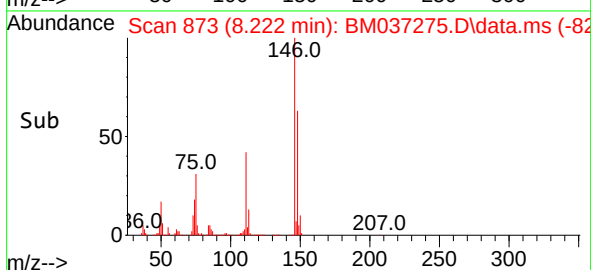
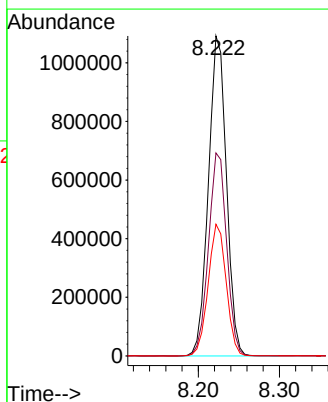
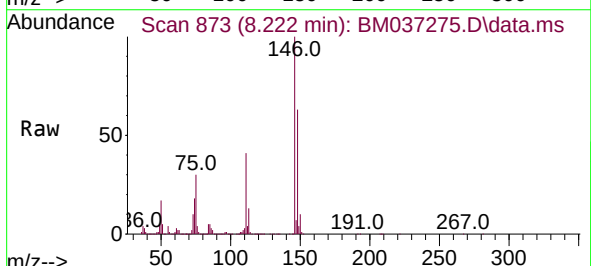
Tgt Ion:146 Resp: 1686771

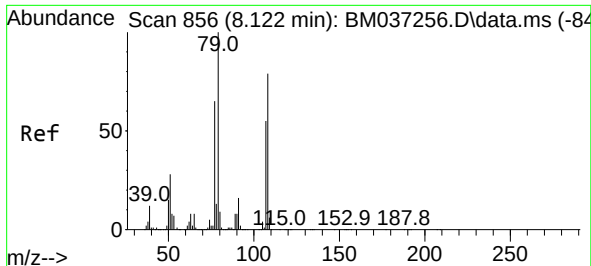
Ion Ratio Lower Upper

146 100

148 63.4 52.4 78.6

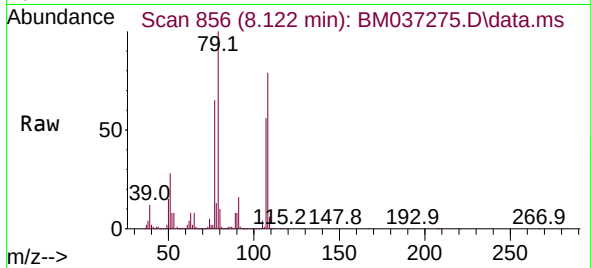
111 41.1 33.0 49.6





#15
Benzyl Alcohol
Concen: 42.553 ng m
RT: 8.122 min Scan# 856
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

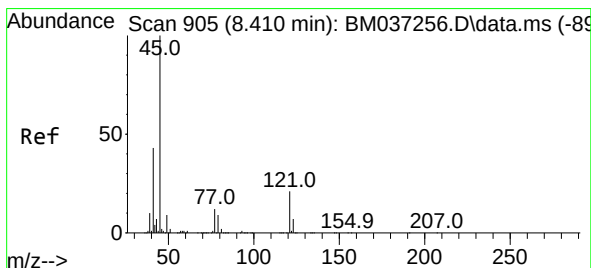
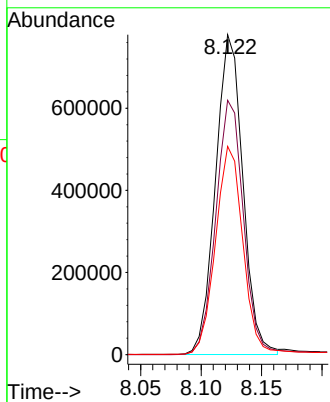
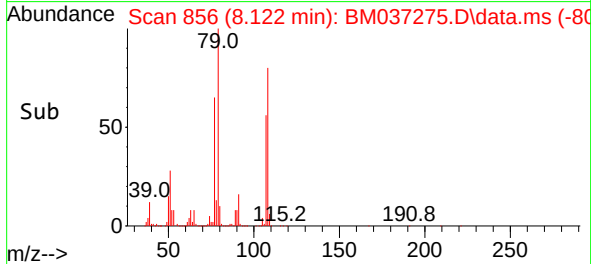
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



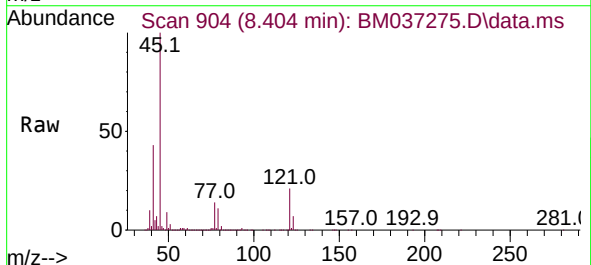
Tgt Ion: 79 Resp: 1224072
Ion Ratio Lower Upper
79 100
108 79.5 63.1 94.7
77 65.1 51.7 77.5

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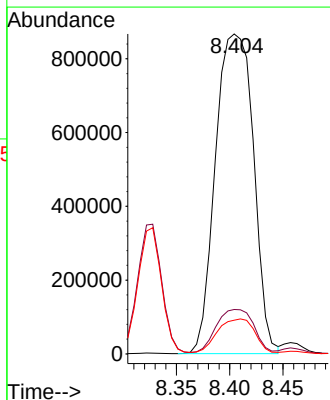
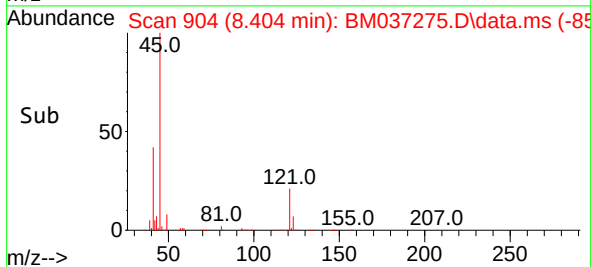
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

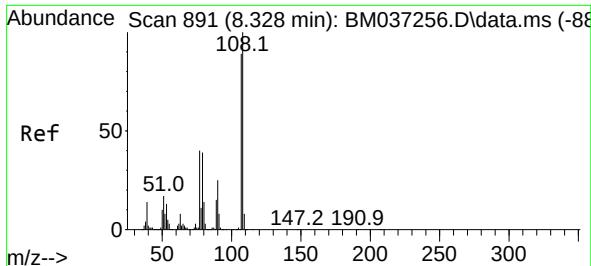


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.752 ng
RT: 8.404 min Scan# 904
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



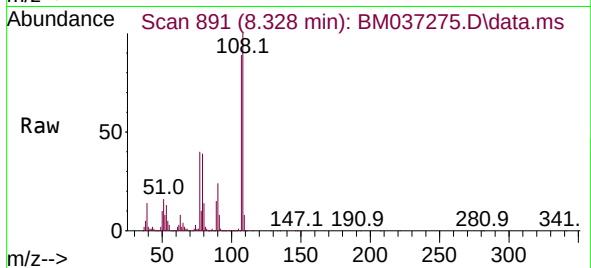
Tgt Ion: 45 Resp: 2151572
Ion Ratio Lower Upper
45 100
77 13.9 0.0 34.0
79 10.5 0.0 30.6





#17
2-Methylphenol
Concen: 41.779 ng
RT: 8.328 min Scan# 891
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

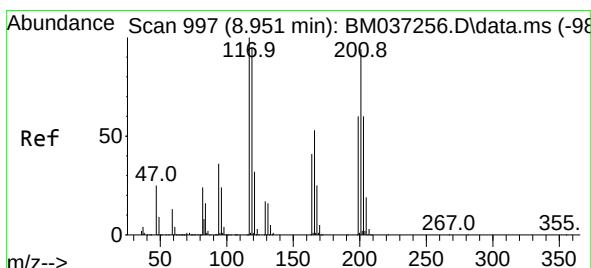
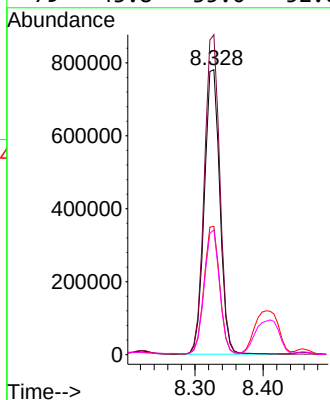
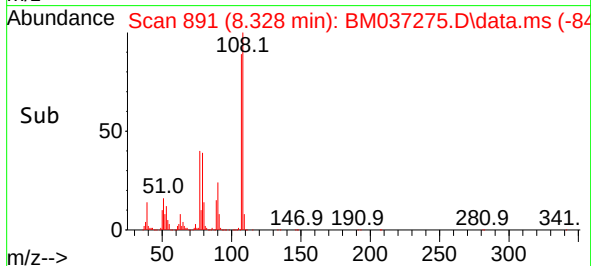
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:107 Resp: 123095
Ion Ratio Lower Upper
107 100
108 112.3 89.5 134.3
77 45.0 36.2 54.2
79 43.8 35.0 52.6

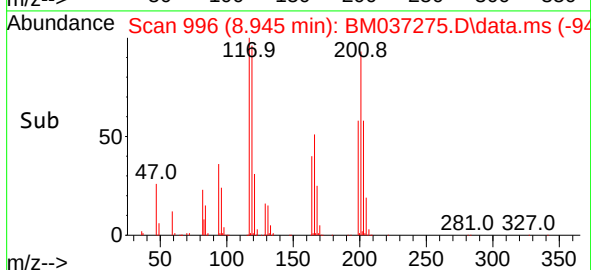
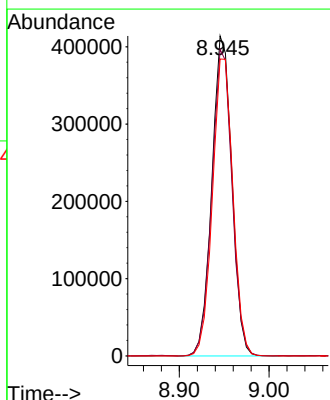
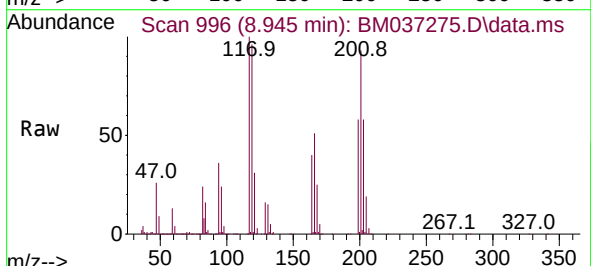
Manual Integrations
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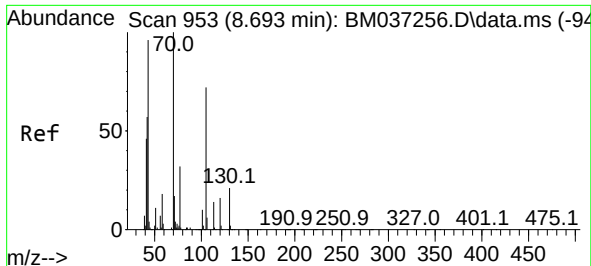
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#18
Hexachloroethane
Concen: 44.854 ng
RT: 8.945 min Scan# 996
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

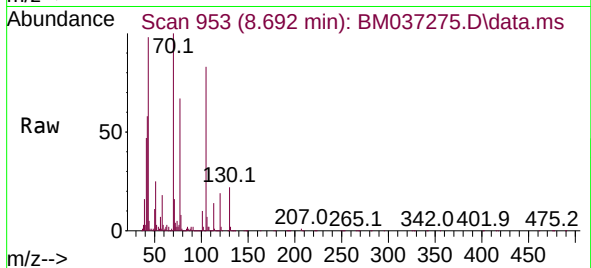
Tgt Ion:117 Resp: 643344
Ion Ratio Lower Upper
117 100
119 95.7 75.9 113.9
201 92.8 75.0 112.4





#19
n-Nitroso-di-n-propylamine
Concen: 40.254 ng
RT: 8.692 min Scan# 911
Delta R.T. -0.001 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

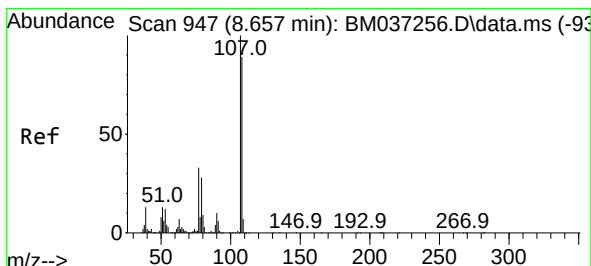
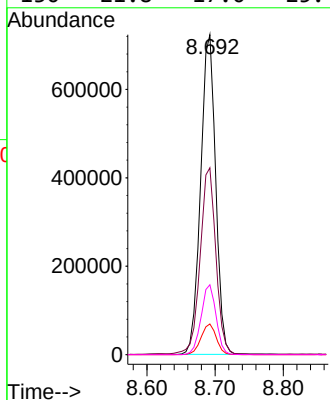
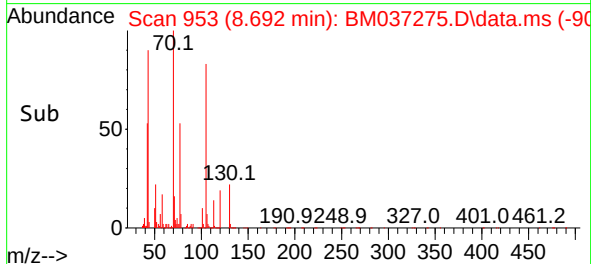
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion: 70 Resp: 111015
Ion Ratio Lower Upper
70 100
42 58.4 46.4 69.6
101 9.6 7.8 11.8
130 21.8 17.0 25.4

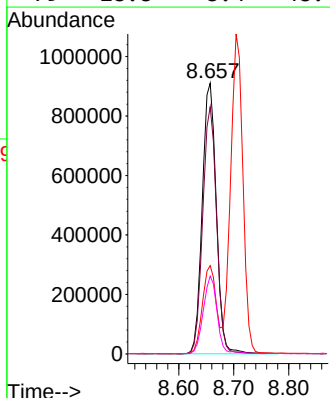
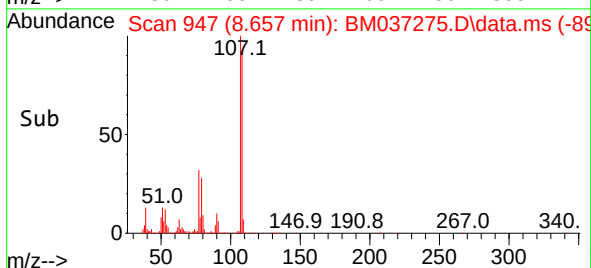
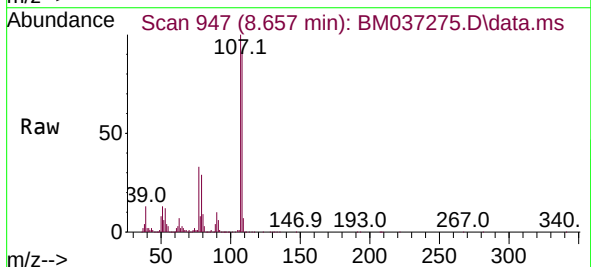
Manual Integrations
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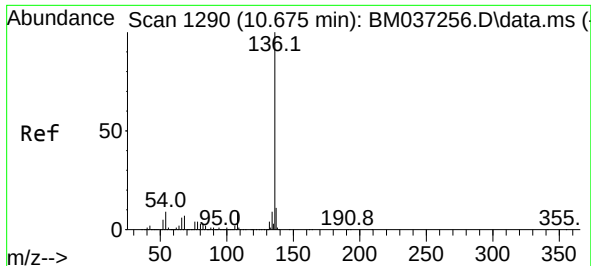
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#20
3+4-Methylphenols
Concen: 39.907 ng
RT: 8.657 min Scan# 947
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

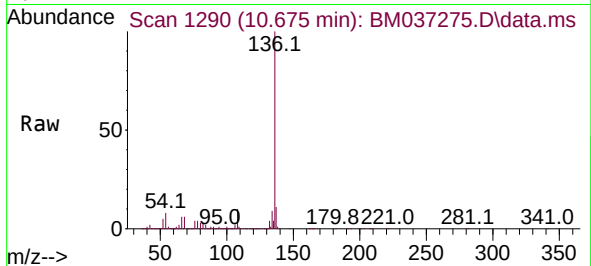
Tgt Ion:107 Resp: 1615037
Ion Ratio Lower Upper
107 100
108 91.3 69.4 109.4
77 32.6 12.8 52.8
79 28.8 8.4 48.4





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.675 min Scan# 1290
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

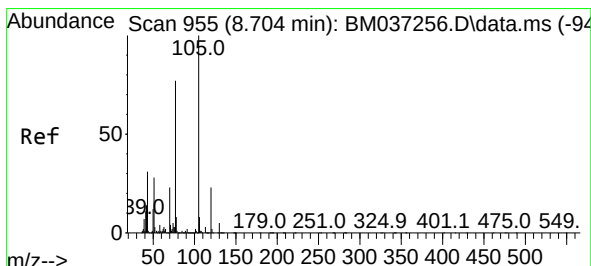
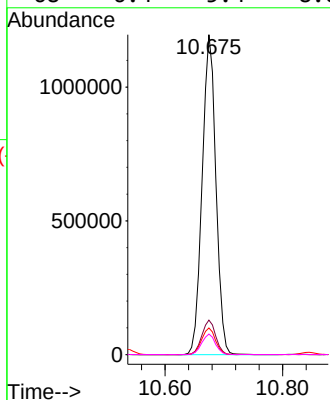
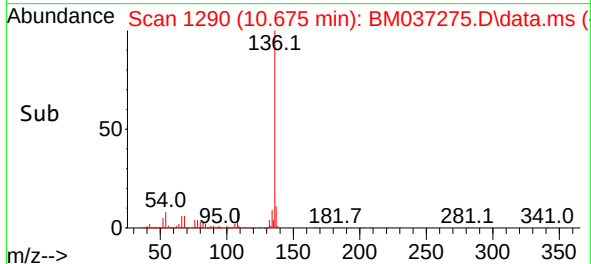
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:136 Resp: 1938693
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.4
54 8.3 7.0 10.4
68 6.4 5.4 8.0

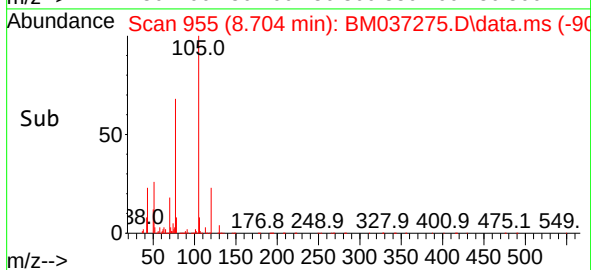
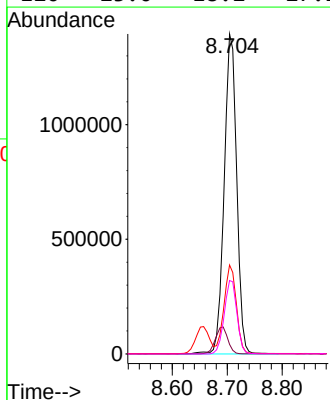
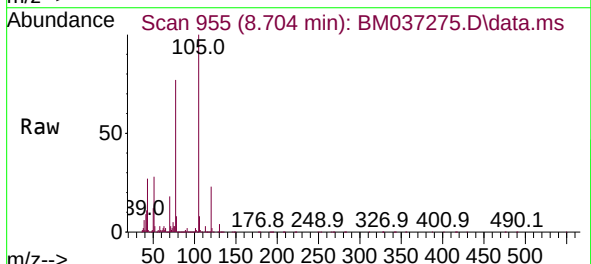
Manual Integrations
APPROVED

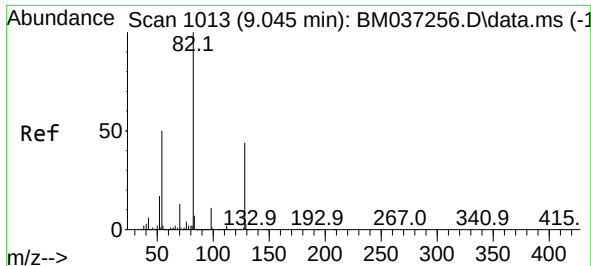
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#22
Acetophenone
Concen: 43.778 ng
RT: 8.704 min Scan# 955
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

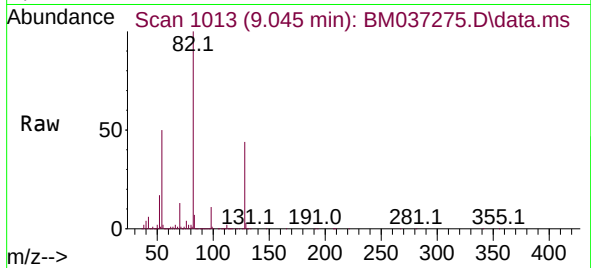
Tgt Ion:105 Resp: 2206000
Ion Ratio Lower Upper
105 100
71 3.0 3.0 4.4
51 27.8 22.1 33.1
120 23.0 18.2 27.2





#23
Nitrobenzene-d5
Concen: 67.294 ng
RT: 9.045 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

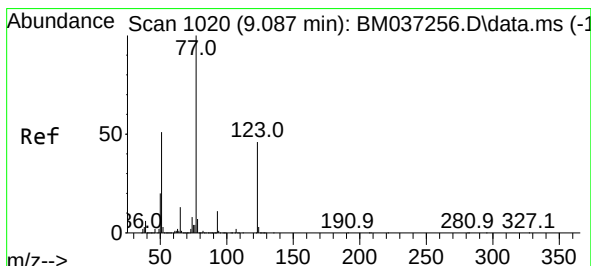
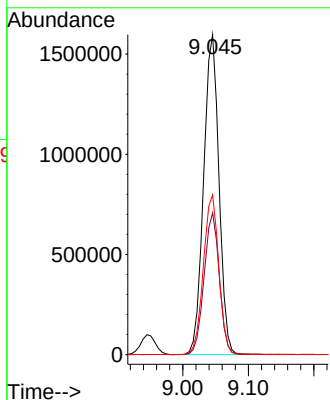
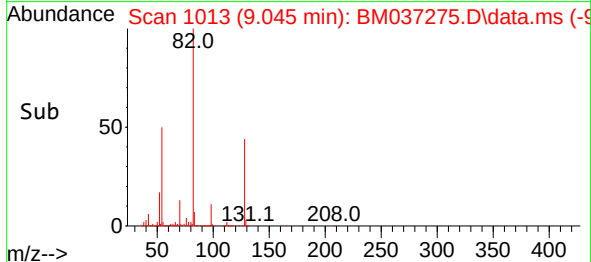
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion: 82 Resp: 2585825
Ion Ratio Lower Upper
82 100
128 44.3 35.2 52.8
54 49.9 40.4 60.6

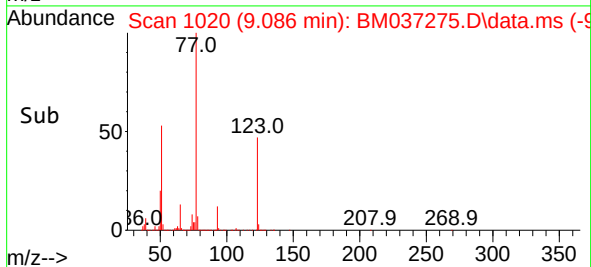
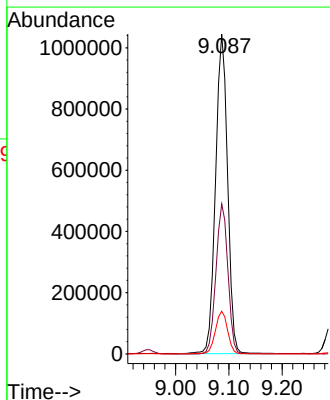
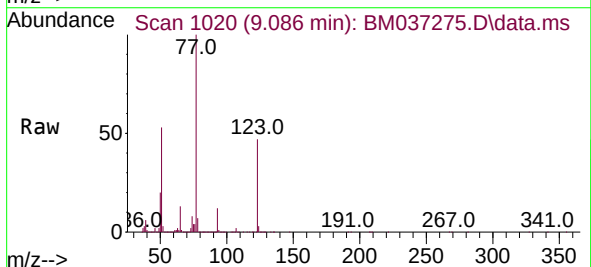
Manual Integrations
APPROVED

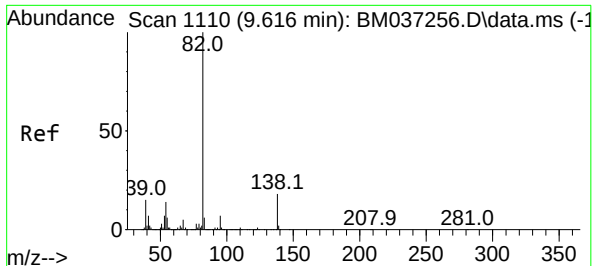
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#24
Nitrobenzene
Concen: 42.000 ng
RT: 9.086 min Scan# 1020
Delta R.T. -0.001 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

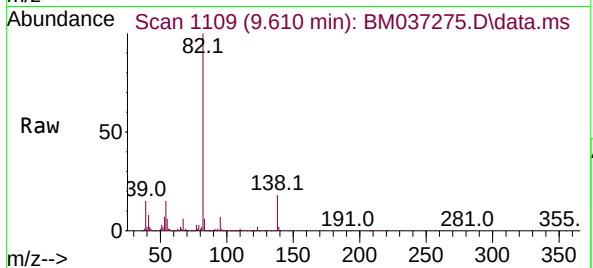
Tgt Ion: 77 Resp: 1636206
Ion Ratio Lower Upper
77 100
123 46.9 36.6 55.0
65 13.3 10.6 16.0





#25
Isophorone
Concen: 43.862 ng
RT: 9.610 min Scan# 1110
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

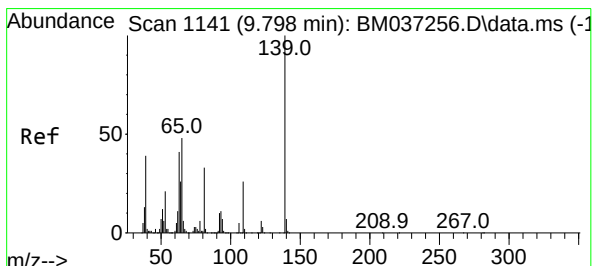
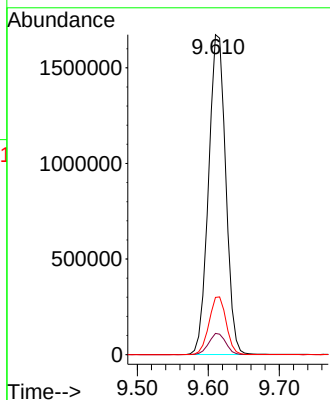
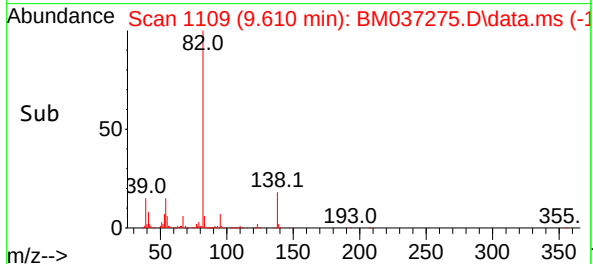
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



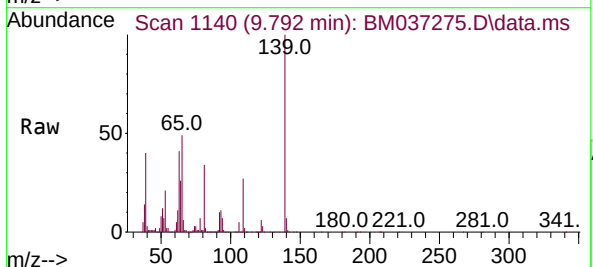
Tgt Ion: 82 Resp: 2816872
Ion Ratio Lower Upper
82 100
95 6.6 5.4 8.0
138 17.9 14.2 21.4

Manual Integrations
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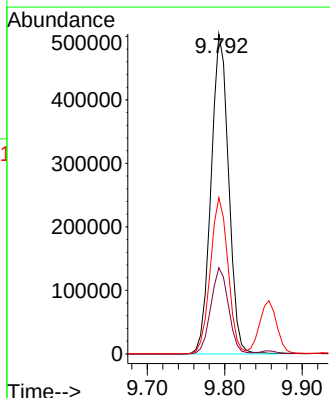
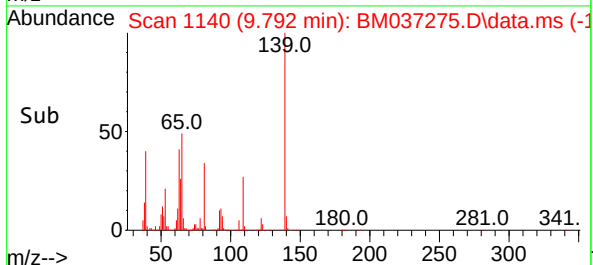
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

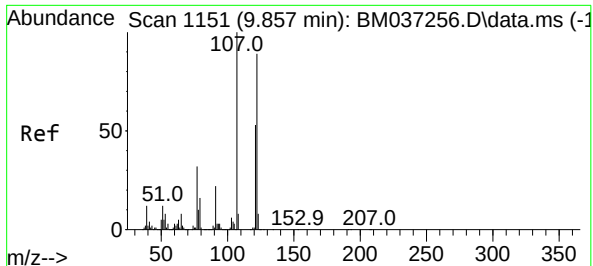


#26
2-Nitrophenol
Concen: 45.415 ng
RT: 9.792 min Scan# 1140
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



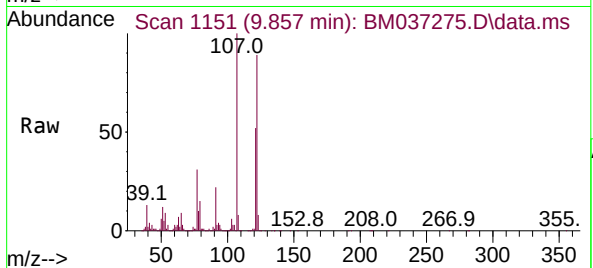
Tgt Ion:139 Resp: 792055
Ion Ratio Lower Upper
139 100
109 26.9 21.1 31.7
65 48.8 38.6 58.0





#27
2,4-Dimethylphenol
Concen: 48.743 ng
RT: 9.857 min Scan# 1151
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

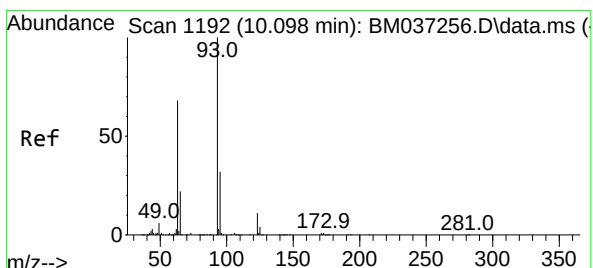
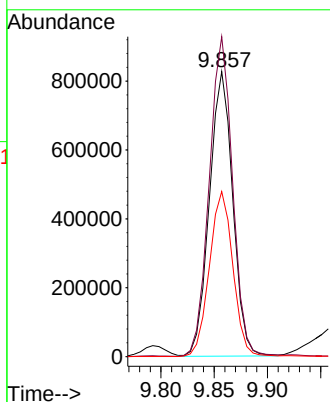
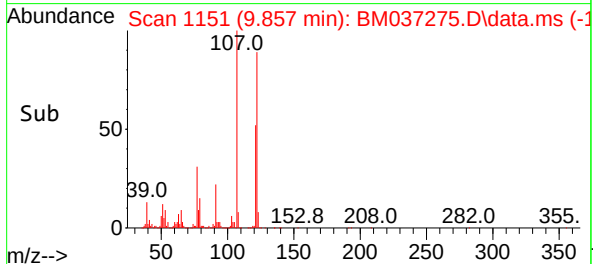
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:122 Resp: 1261618
Ion Ratio Lower Upper
122 100
107 112.3 89.7 134.5
121 57.9 47.1 70.7

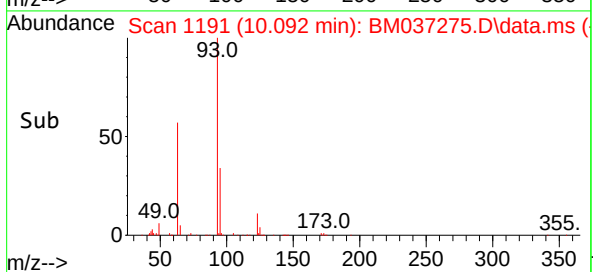
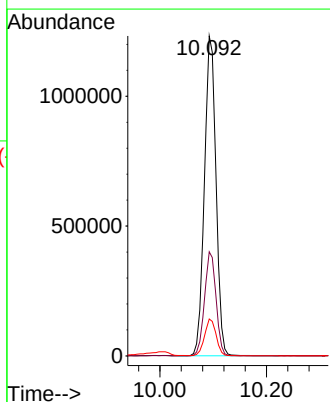
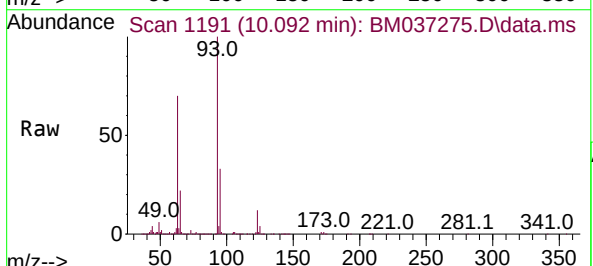
Manual Integrations
APPROVED

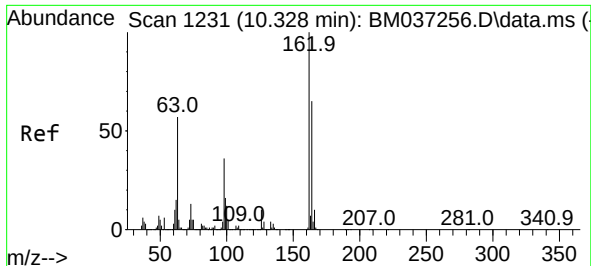
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#28
bis(2-Chloroethoxy)methane
Concen: 46.435 ng
RT: 10.092 min Scan# 1191
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

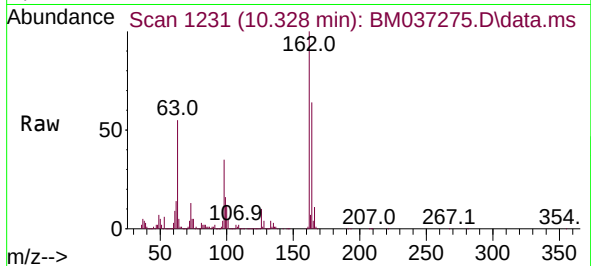
Tgt Ion: 93 Resp: 1855425
Ion Ratio Lower Upper
93 100
95 32.5 25.8 38.8
123 11.5 9.3 13.9





#29
2,4-Dichlorophenol
Concen: 43.458 ng
RT: 10.328 min Scan# 1231
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

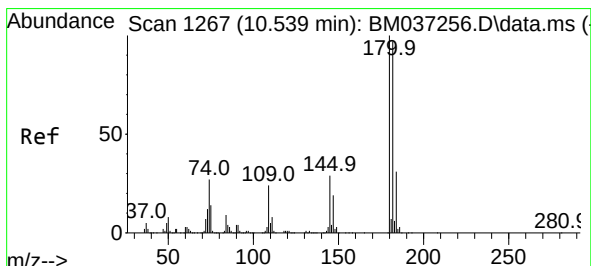
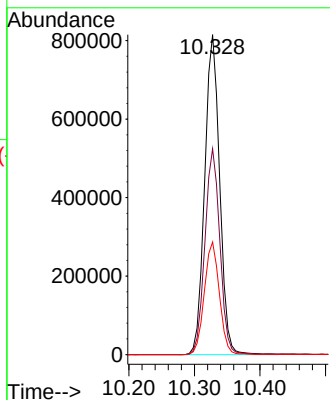
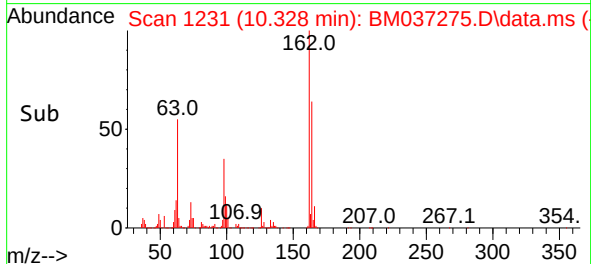
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



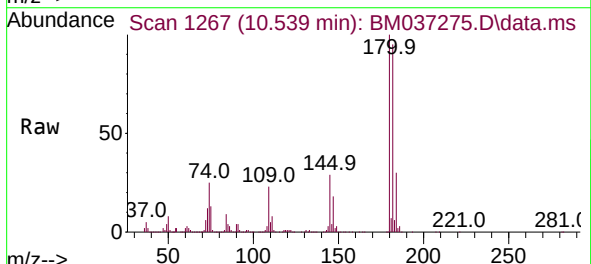
Tgt Ion:162 Resp: 1291197
Ion Ratio Lower Upper
162 100
164 64.4 45.0 85.0
98 35.2 16.2 56.2

Manual Integrations
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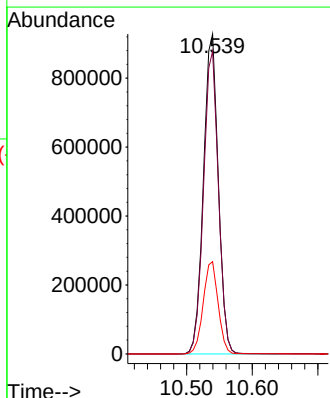
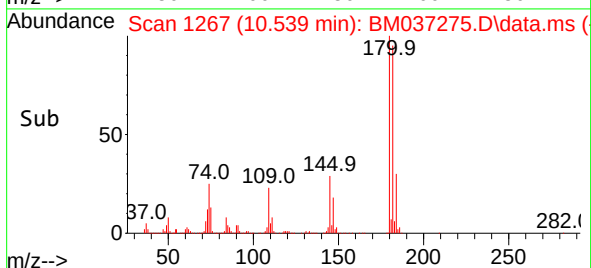
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

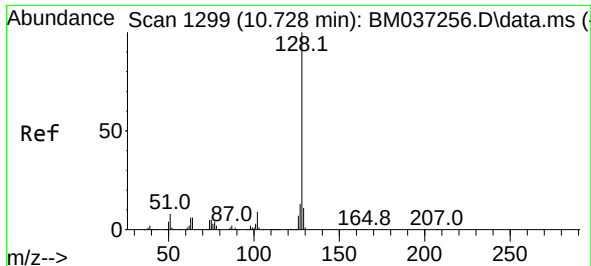


#30
1,2,4-Trichlorobenzene
Concen: 43.134 ng
RT: 10.539 min Scan# 1267
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



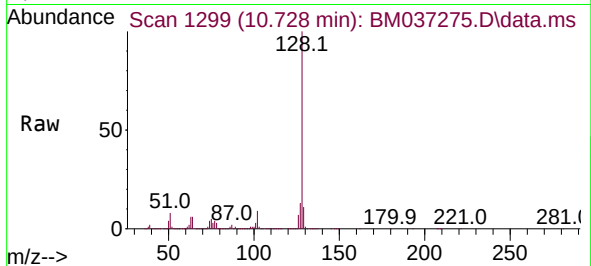
Tgt Ion:180 Resp: 1453301
Ion Ratio Lower Upper
180 100
182 94.6 77.5 116.3
145 28.8 23.5 35.3





#31
Naphthalene
Concen: 41.256 ng
RT: 10.728 min Scan# 1299
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

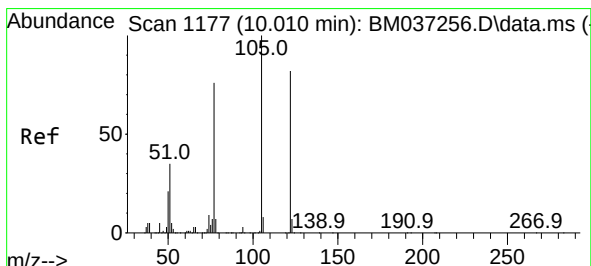
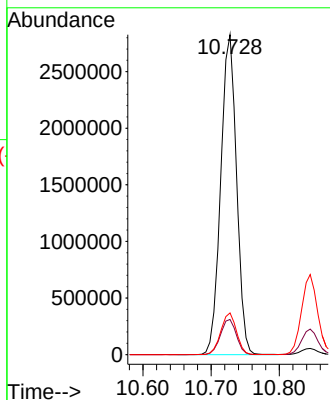
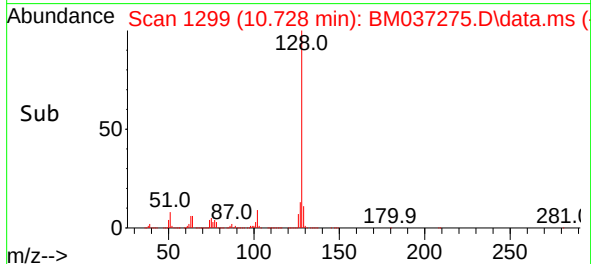
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:128 Resp: 4531439
Ion Ratio Lower Upper
128 100
129 11.0 8.7 13.1
127 13.0 10.2 15.2

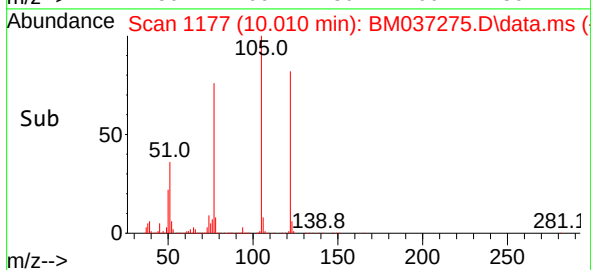
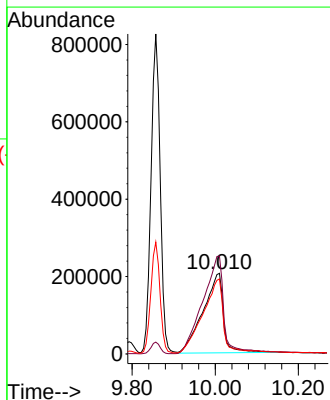
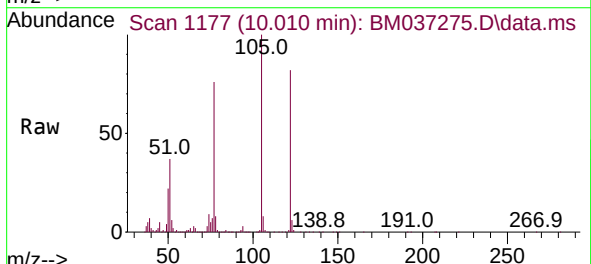
Manual Integrations
APPROVED

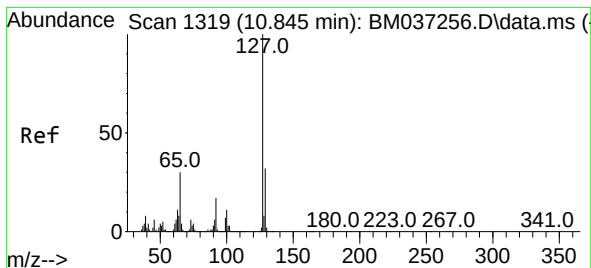
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#32
Benzoic acid
Concen: 32.500 ng
RT: 10.010 min Scan# 1177
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

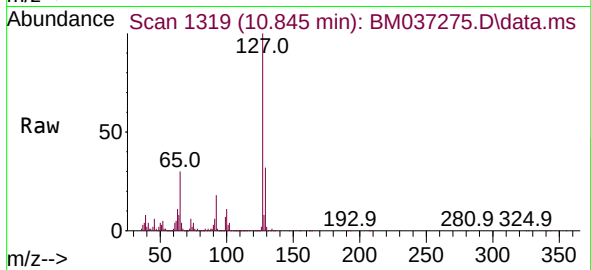
Tgt Ion:122 Resp: 703480
Ion Ratio Lower Upper
122 100
105 121.5 100.1 140.1
77 93.0 71.7 111.7





#33
4-Chloroaniline
Concen: 27.082 ng
RT: 10.845 min Scan# 1319
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

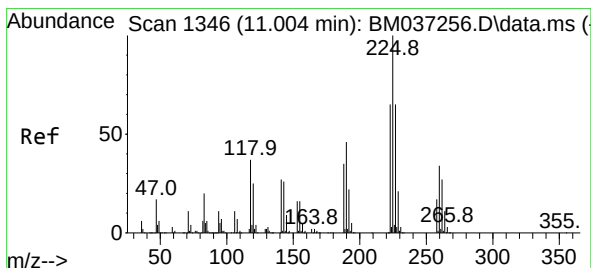
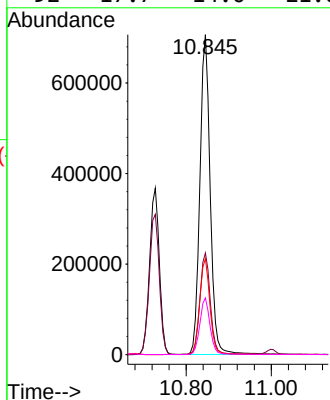
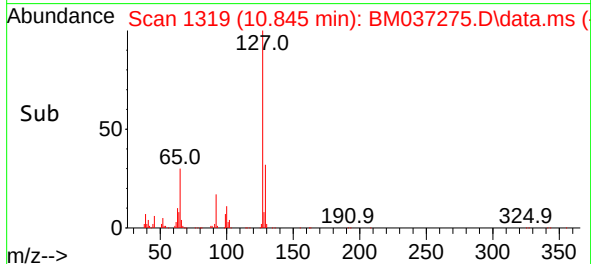
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:127 Resp: 1184878
Ion Ratio Lower Upper
127 100
129 31.8 25.5 38.3
65 30.0 24.0 36.0
92 17.7 14.0 21.0

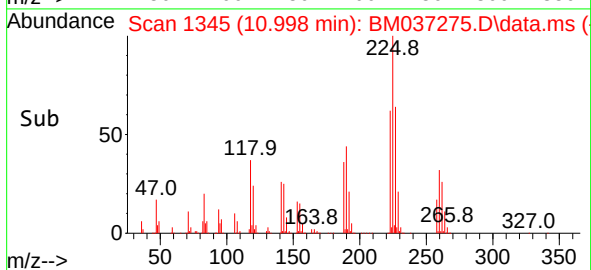
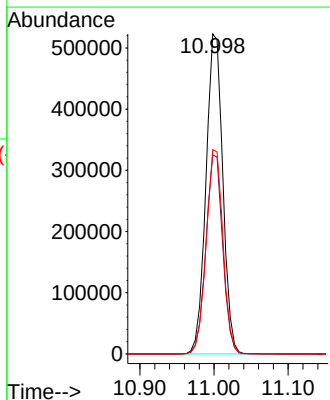
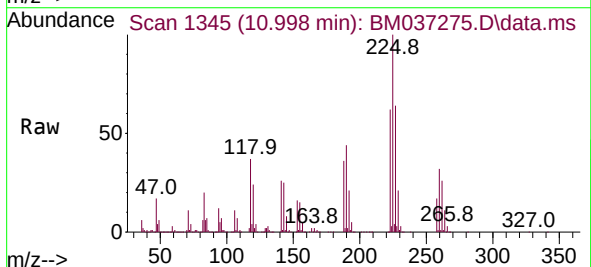
Manual Integrations
APPROVED

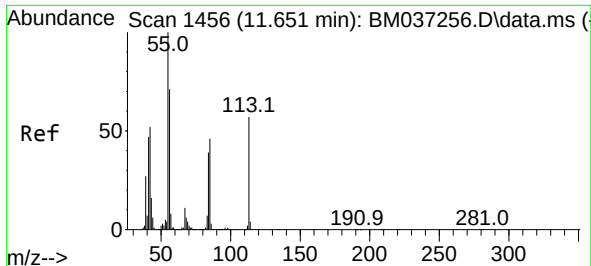
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#34
Hexachlorobutadiene
Concen: 43.641 ng
RT: 10.998 min Scan# 1345
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

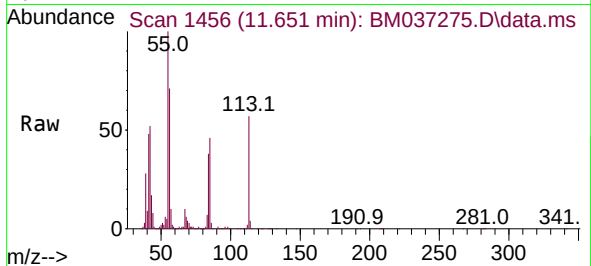
Tgt Ion:225 Resp: 821059
Ion Ratio Lower Upper
225 100
223 62.2 51.9 77.9
227 63.8 52.2 78.4





#35
Caprolactam
Concen: 37.669 ng
RT: 11.651 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

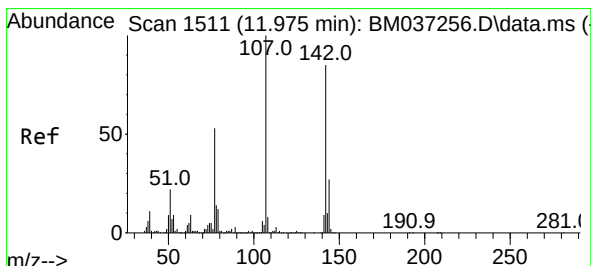
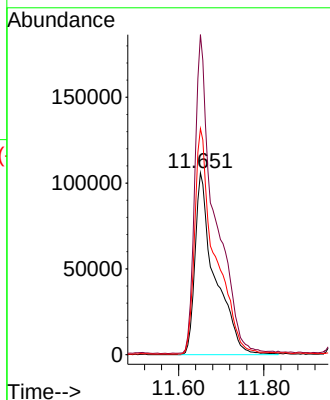
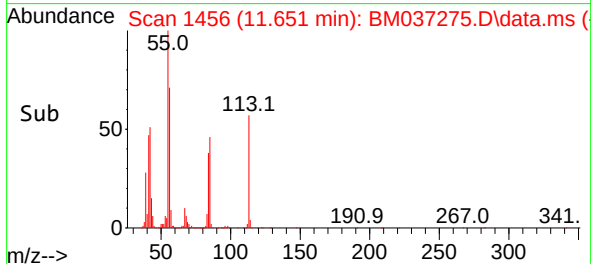
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



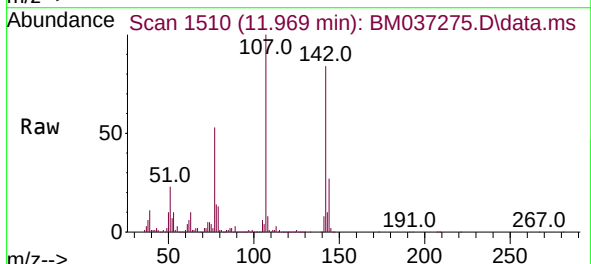
Tgt Ion:113 Resp: 340256
Ion Ratio Lower Upper
113 100
55 176.1 156.9 196.9
56 124.4 106.4 146.4

Manual Integrations
APPROVED

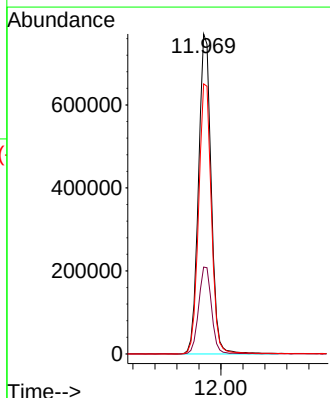
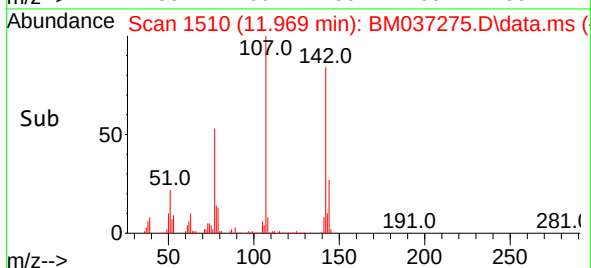
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

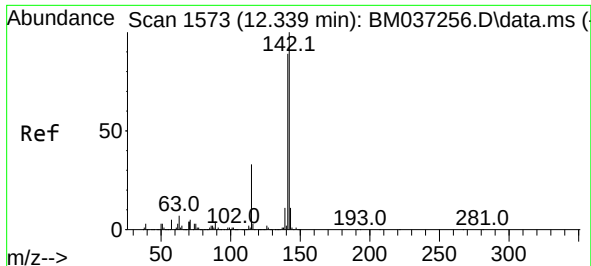


#36
4-Chloro-3-methylphenol
Concen: 40.217 ng
RT: 11.969 min Scan# 1510
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



Tgt Ion:107 Resp: 1231378
Ion Ratio Lower Upper
107 100
144 27.1 21.8 32.6
142 84.4 68.1 102.1





#37

2-Methylnaphthalene

Concen: 40.314 ng

RT: 12.333 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM037275.D

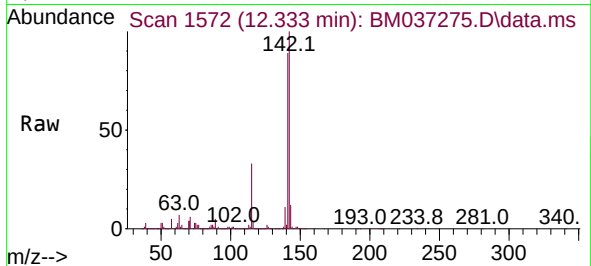
Acq: 29 Oct 2022 17:39

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMS



Tgt Ion:142 Resp: 3000118

Ion Ratio Lower Upper

142 100

141 88.9 71.3 106.9

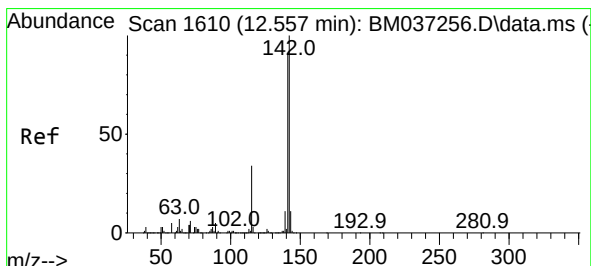
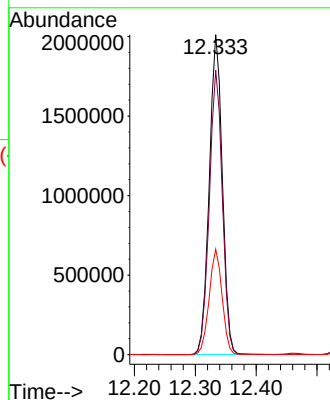
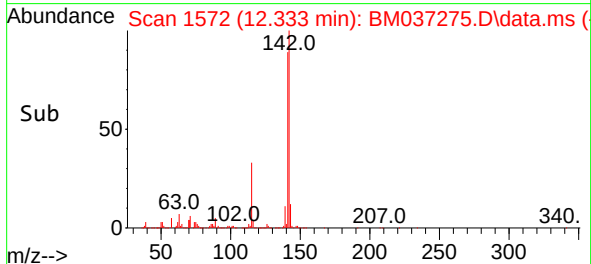
115 32.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#38

1-Methylnaphthalene

Concen: 38.537 ng

RT: 12.551 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

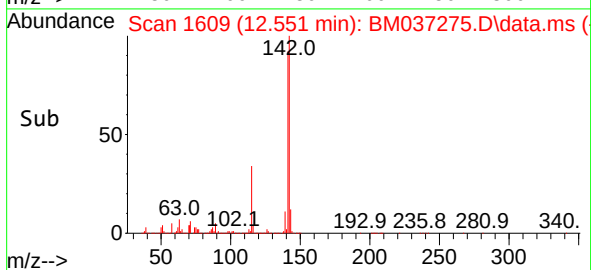
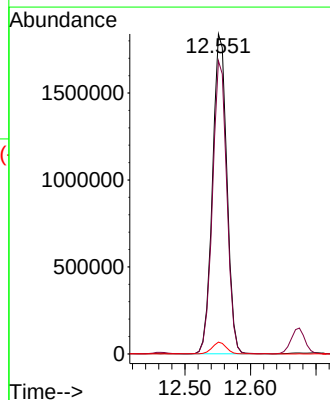
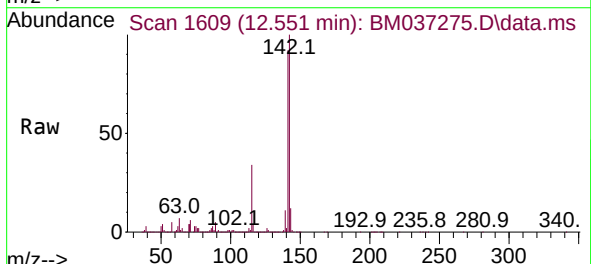
Tgt Ion:142 Resp: 2802236

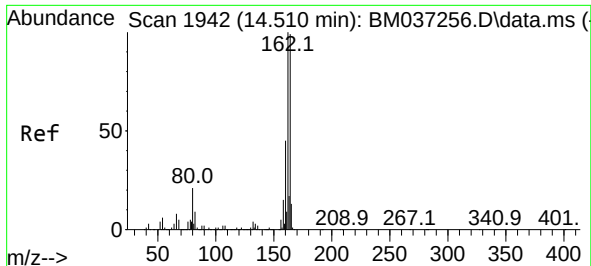
Ion Ratio Lower Upper

142 100

141 91.6 73.0 109.6

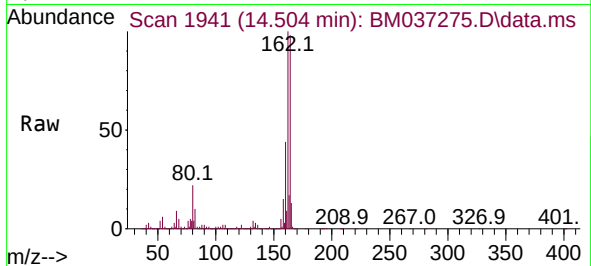
116 3.7 2.8 4.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.504 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

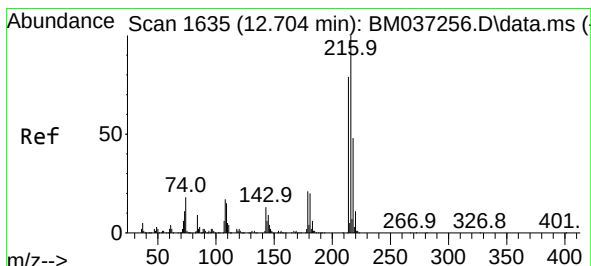
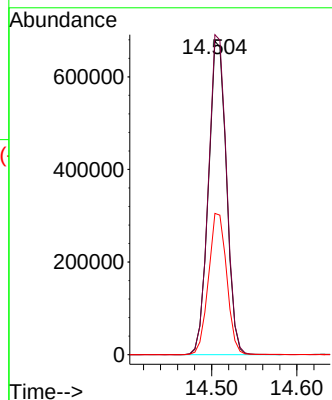
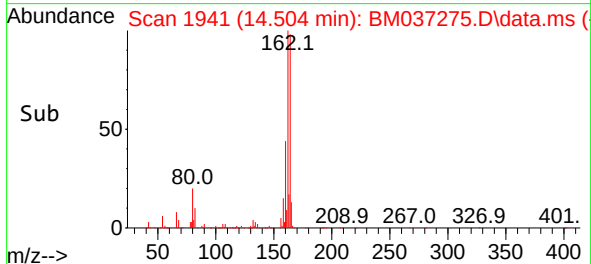
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:164 Resp: 992029
Ion Ratio Lower Upper
164 100
162 102.1 80.6 120.8
160 45.0 36.2 54.4

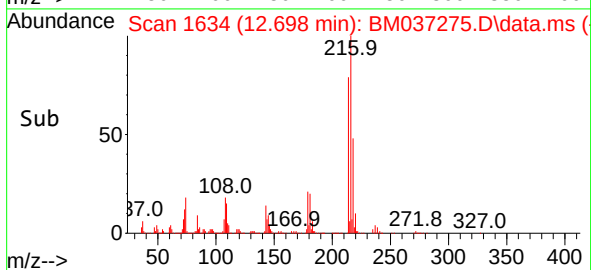
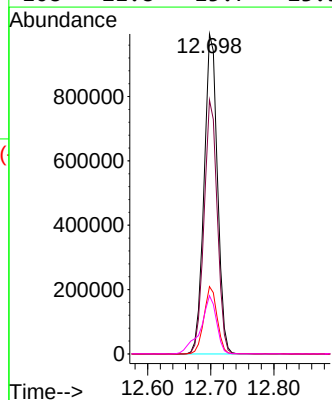
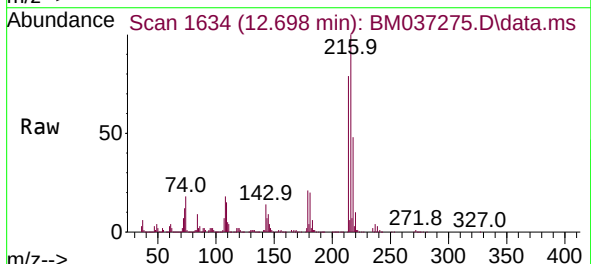
Manual Integrations
APPROVED

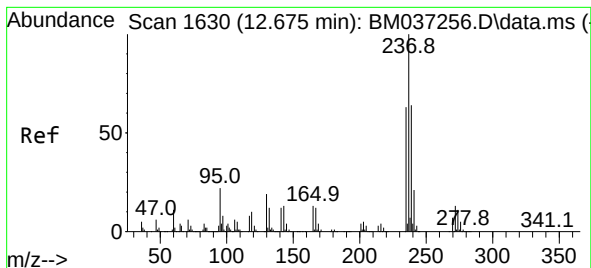
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.810 ng
RT: 12.698 min Scan# 1634
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

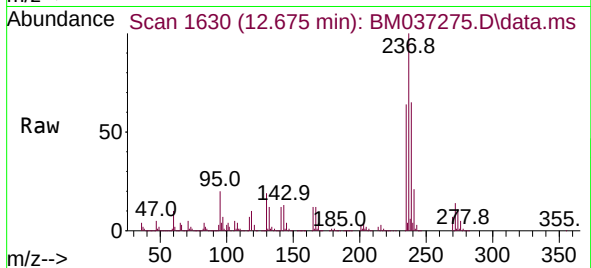
Tgt Ion:216 Resp: 1455867
Ion Ratio Lower Upper
216 100
214 78.6 63.1 94.7
179 20.8 16.8 25.2
108 21.8 15.7 23.5





#41
Hexachlorocyclopentadiene
Concen: 119.279 ng
RT: 12.675 min Scan# 1630
Delta R.T. -0.001 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

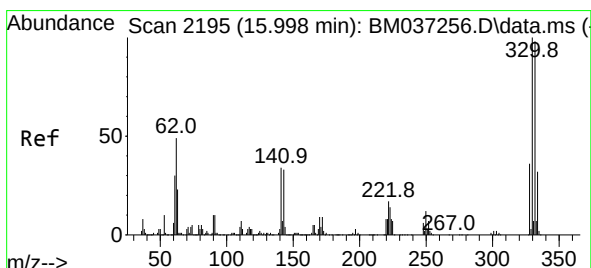
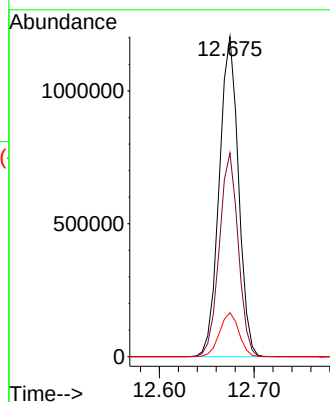
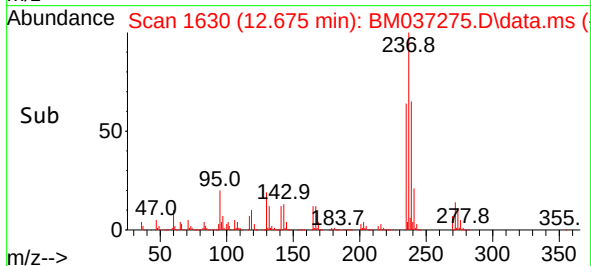
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:237 Resp: 1695100
Ion Ratio Lower Upper
237 100
235 63.6 42.9 82.9
272 13.7 0.0 33.1

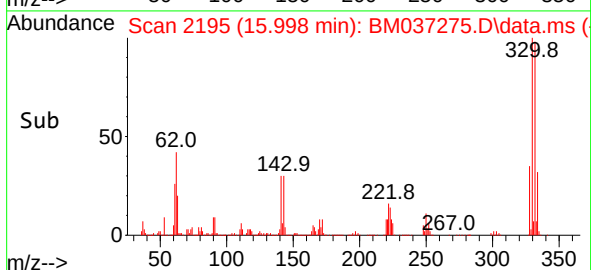
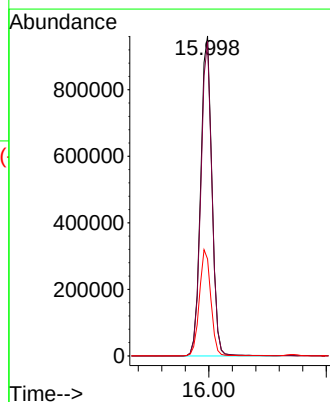
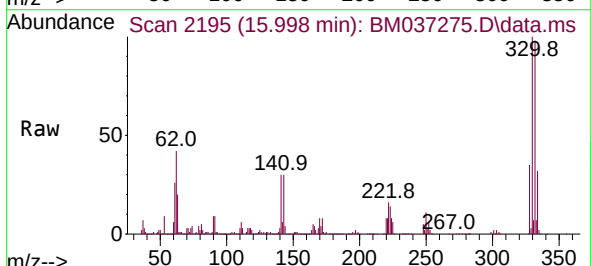
Manual Integrations
APPROVED

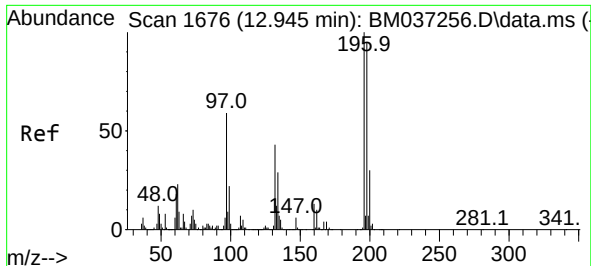
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#42
2,4,6-Tribromophenol
Concen: 108.757 ng
RT: 15.998 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

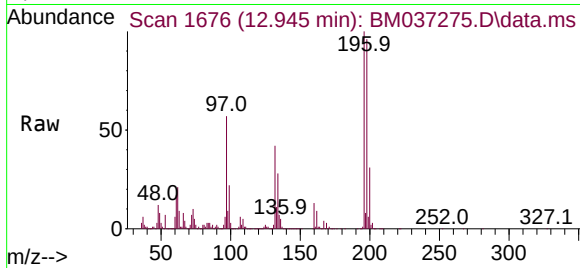
Tgt Ion:330 Resp: 1271446
Ion Ratio Lower Upper
330 100
332 97.0 78.0 117.0
141 33.7 27.5 41.3





#43
2,4,6-Trichlorophenol
Concen: 44.996 ng
RT: 12.945 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

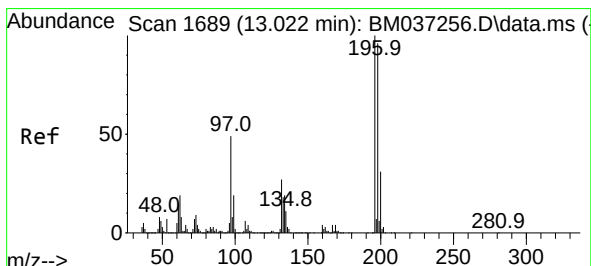
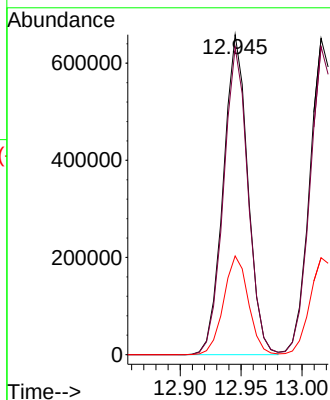
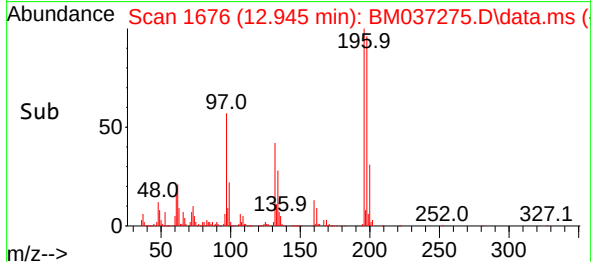
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



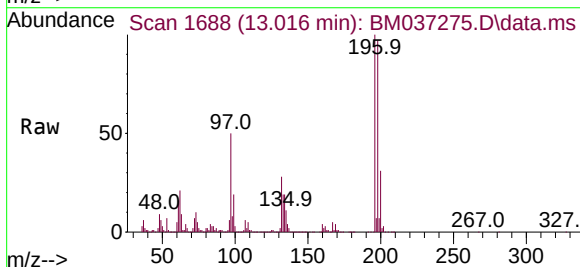
Tgt Ion:196 Resp: 923907
Ion Ratio Lower Upper
196 100
198 96.0 76.1 114.1
200 30.8 24.4 36.6

Manual Integrations
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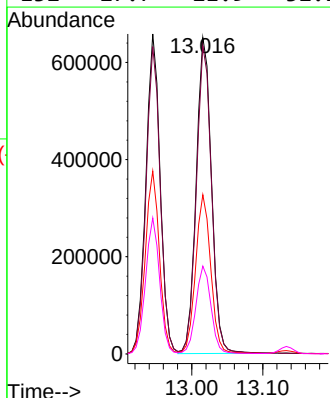
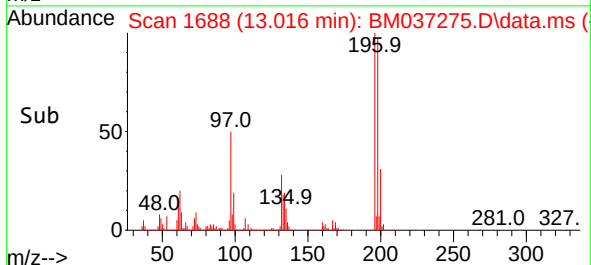
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

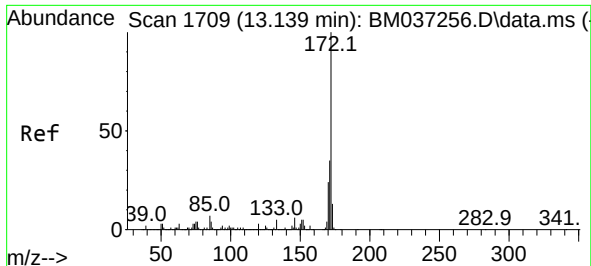


#44
2,4,5-Trichlorophenol
Concen: 42.999 ng
RT: 13.016 min Scan# 1688
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



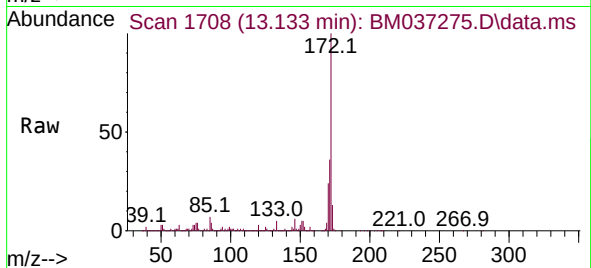
Tgt Ion:196 Resp: 973949
Ion Ratio Lower Upper
196 100
198 97.4 77.0 115.6
97 50.3 39.4 59.2
132 27.7 21.9 32.9





#45
2-Fluorobiphenyl
Concen: 63.352 ng
RT: 13.133 min Scan# 1708
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

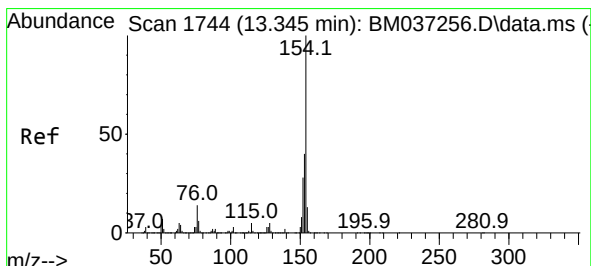
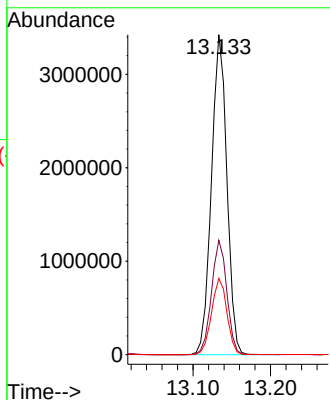
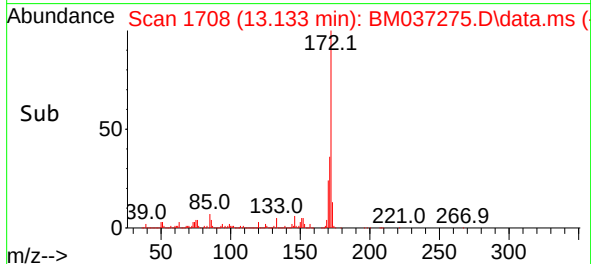
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:172 Resp: 4729992
Ion Ratio Lower Upper
172 100
171 35.7 28.1 42.1
170 23.8 19.0 28.4

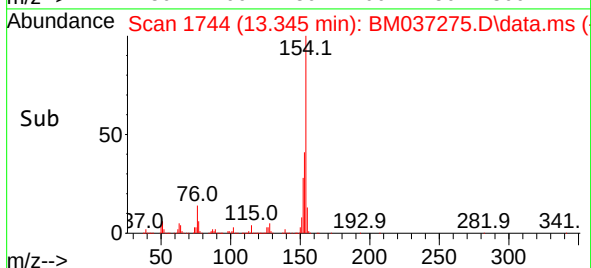
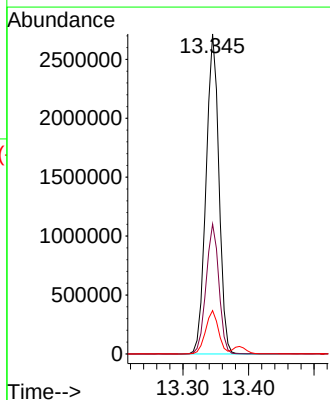
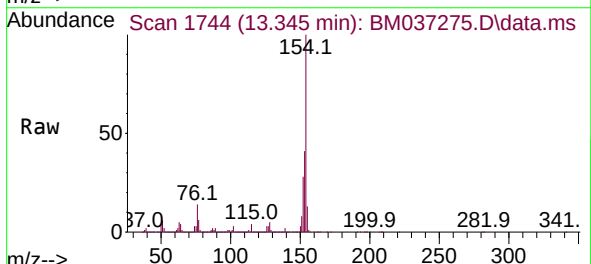
Manual Integrations
APPROVED

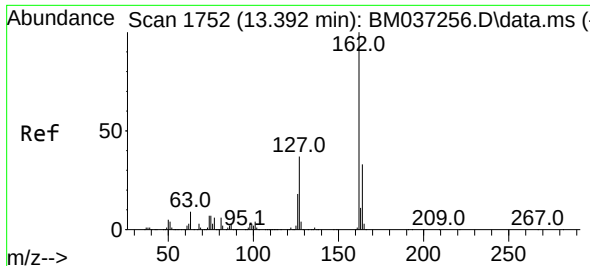
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#46
1,1'-Biphenyl
Concen: 46.090 ng
RT: 13.345 min Scan# 1744
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

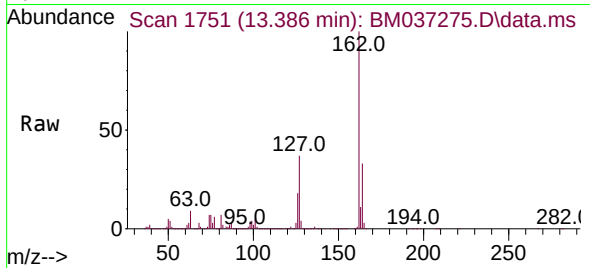
Tgt Ion:154 Resp: 3689727
Ion Ratio Lower Upper
154 100
153 40.6 20.3 60.3
76 13.5 0.0 33.7





#47
2-Chloronaphthalene
Concen: 44.518 ng
RT: 13.386 min Scan# 1751
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

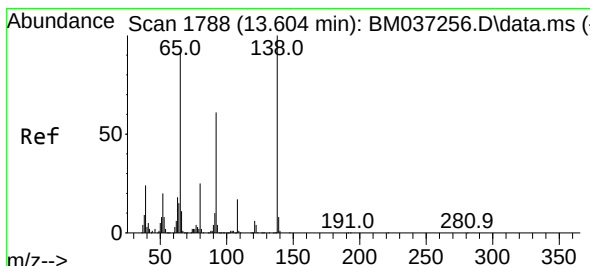
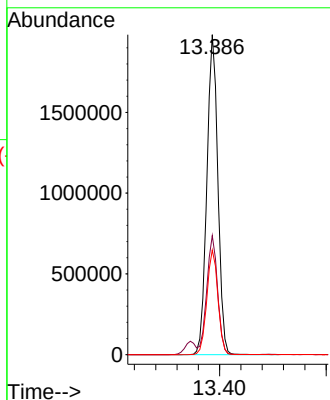
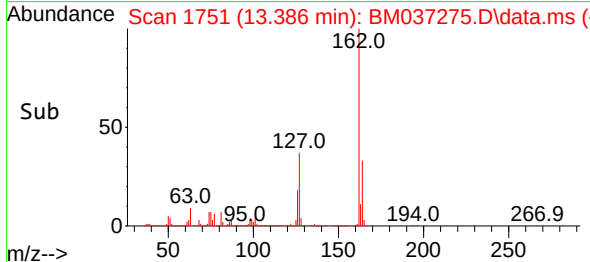
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



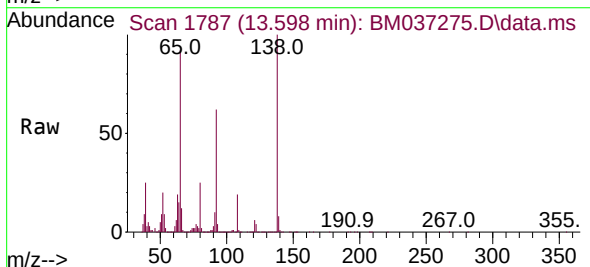
Tgt Ion:162 Resp: 2836083
Ion Ratio Lower Upper
162 100
127 37.2 29.5 44.3
164 32.7 26.3 39.5

Manual Integrations
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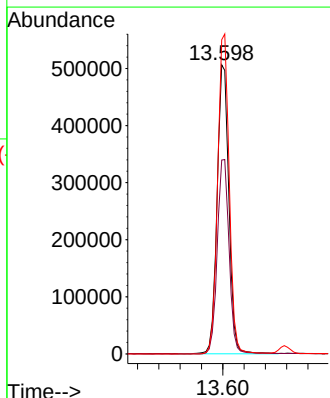
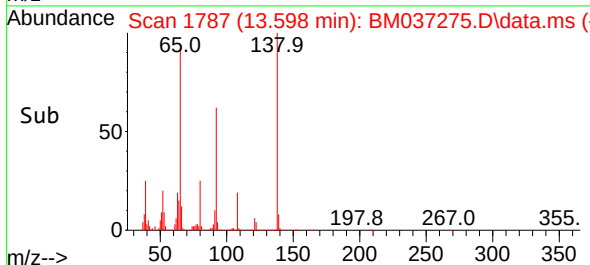
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

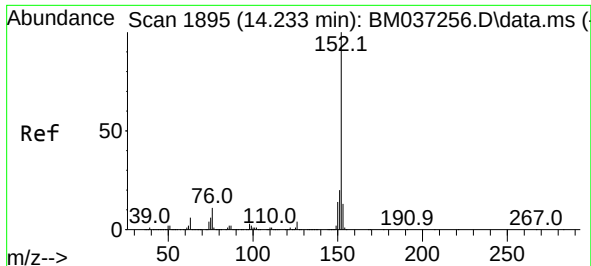


#48
2-Nitroaniline
Concen: 41.896 ng
RT: 13.598 min Scan# 1787
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39



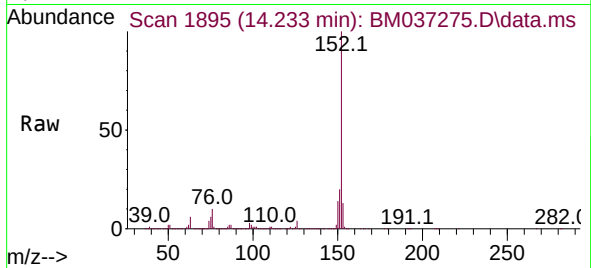
Tgt Ion: 65 Resp: 771304
Ion Ratio Lower Upper
65 100
92 67.1 53.7 80.5
138 108.7 87.4 131.2





#49
Acenaphthylene
Concen: 43.144 ng
RT: 14.233 min Scan# 1895
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

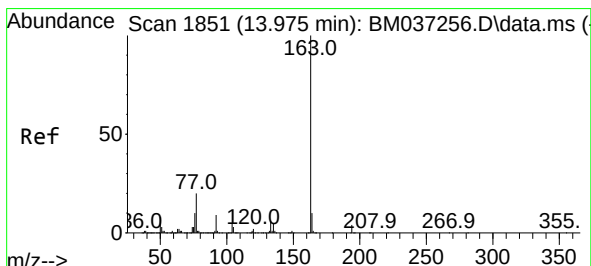
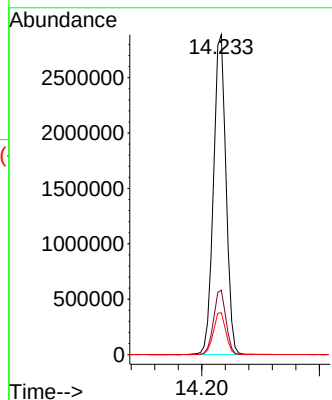
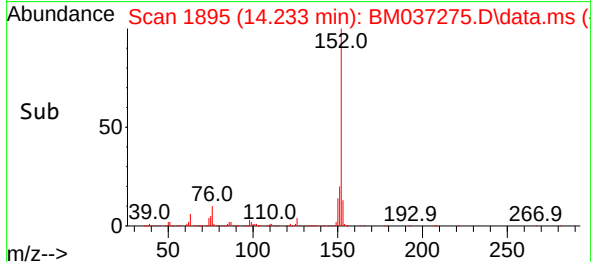
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:152 Resp: 4266703
Ion Ratio Lower Upper
152 100
151 20.1 16.0 24.0
153 13.1 10.6 15.8

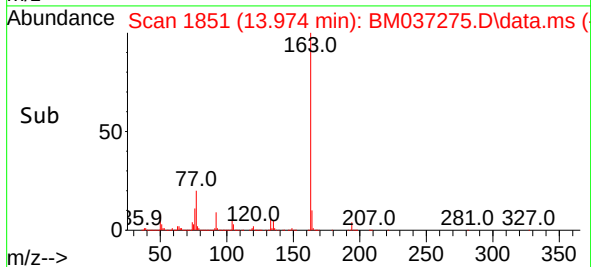
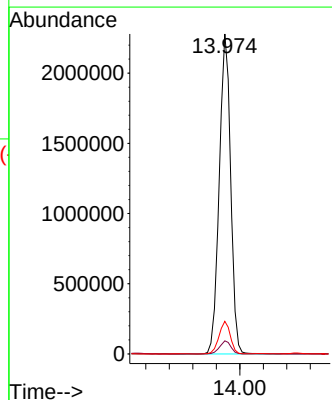
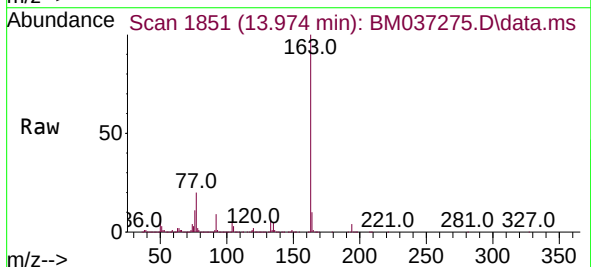
Manual Integrations
APPROVED

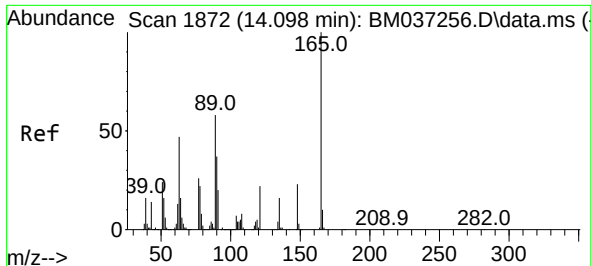
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#50
Dimethylphthalate
Concen: 40.362 ng
RT: 13.974 min Scan# 1851
Delta R.T. -0.001 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

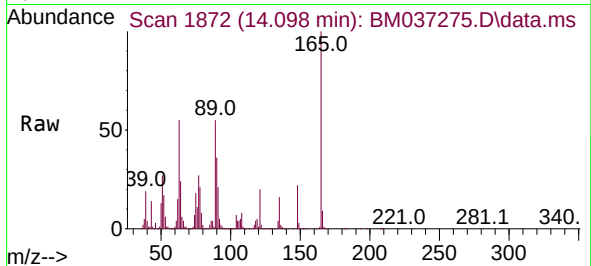
Tgt Ion:163 Resp: 3058354
Ion Ratio Lower Upper
163 100
194 4.1 3.0 4.6
164 10.2 8.2 12.2





#51
2,6-Dinitrotoluene
Concen: 41.668 ng
RT: 14.098 min Scan# 1872
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

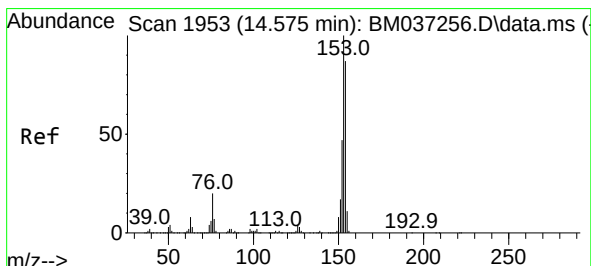
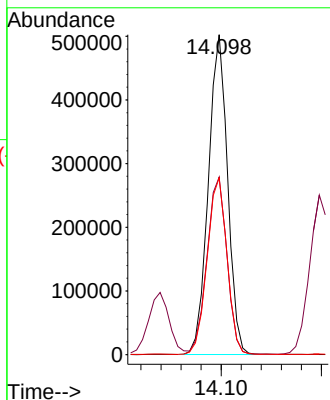
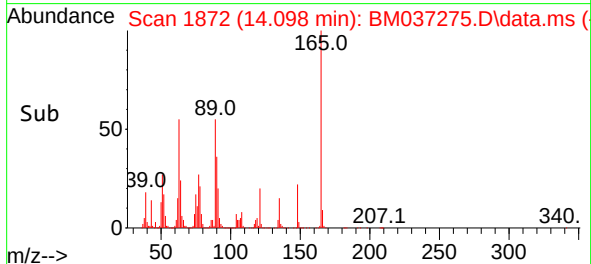
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:165 Resp: 668619
Ion Ratio Lower Upper
165 100
63 55.5 46.2 69.2
89 55.2 46.6 69.8

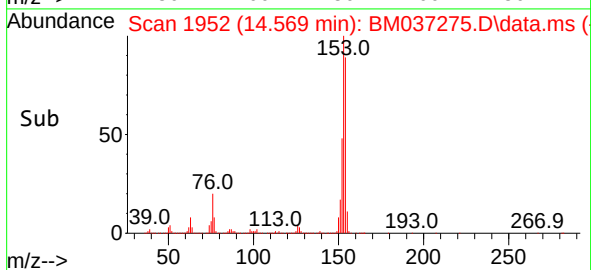
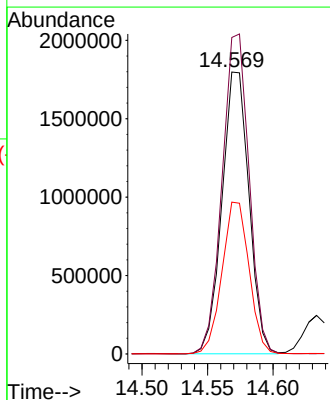
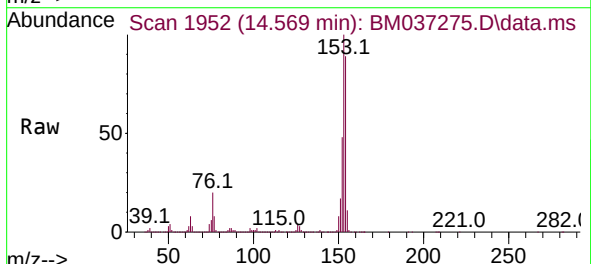
Manual Integrations
APPROVED

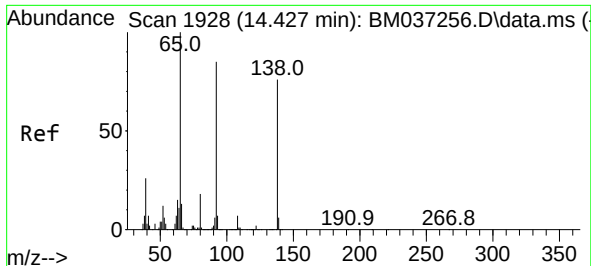
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#52
Acenaphthene
Concen: 42.216 ng
RT: 14.569 min Scan# 1952
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

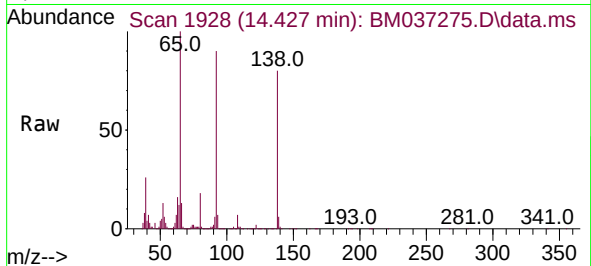
Tgt Ion:154 Resp: 2581009
Ion Ratio Lower Upper
154 100
153 112.3 91.5 137.3
152 53.9 43.0 64.6





#53
3-Nitroaniline
Concen: 27.672 ng
RT: 14.427 min Scan# 1928
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

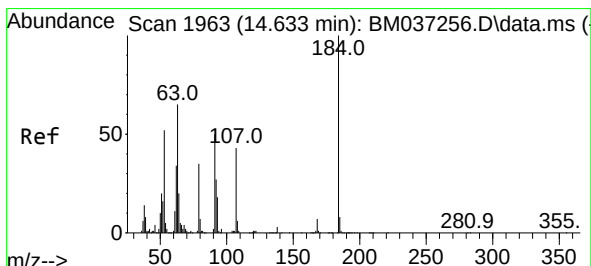
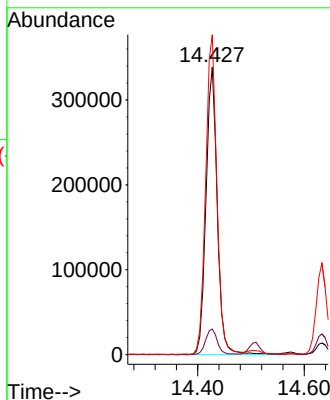
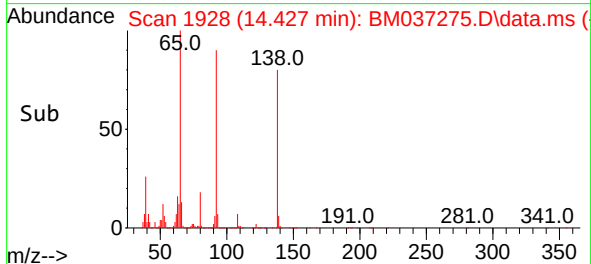
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:138 Resp: 496065
Ion Ratio Lower Upper
138 100
108 8.9 7.3 10.9
92 111.3 89.8 134.8

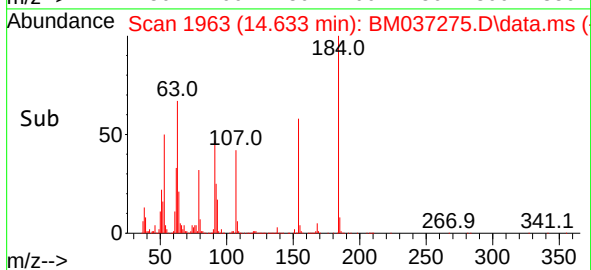
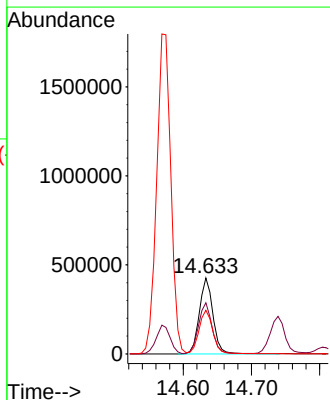
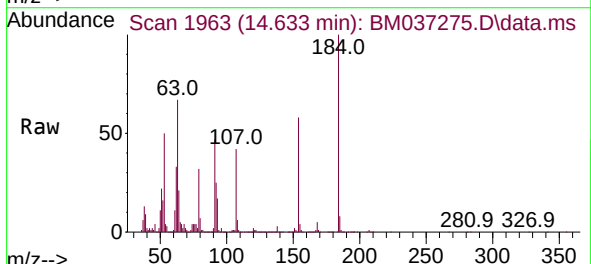
Manual Integrations
APPROVED

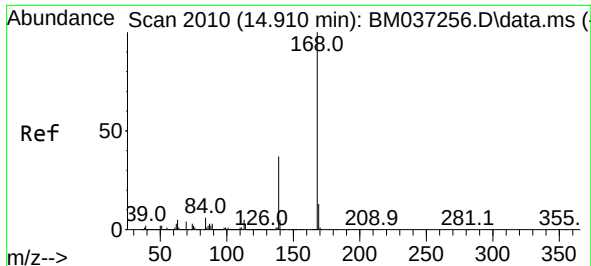
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#54
2,4-Dinitrophenol
Concen: 57.778 ng
RT: 14.633 min Scan# 1963
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

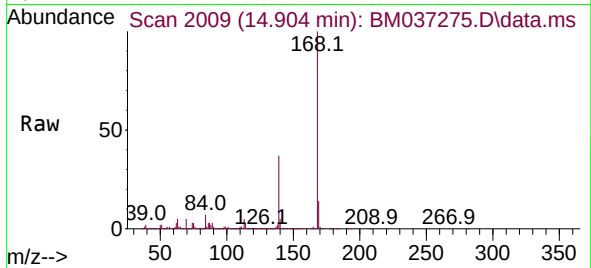
Tgt Ion:184 Resp: 589889
Ion Ratio Lower Upper
184 100
63 67.4 57.7 86.5
154 57.5 48.3 72.5





#55
Dibenzenofuran
Concen: 41.661 ng
RT: 14.904 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

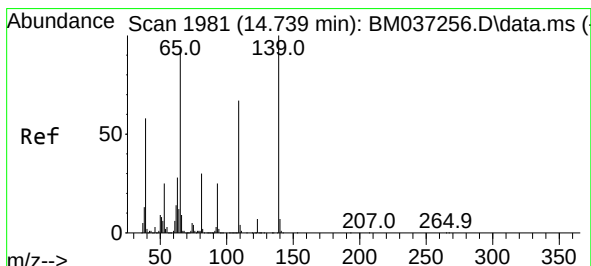
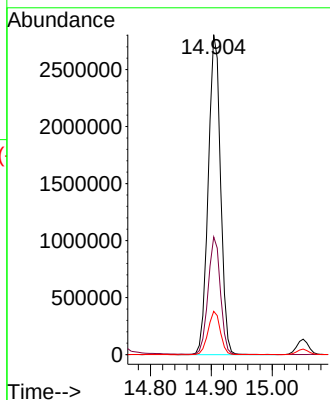
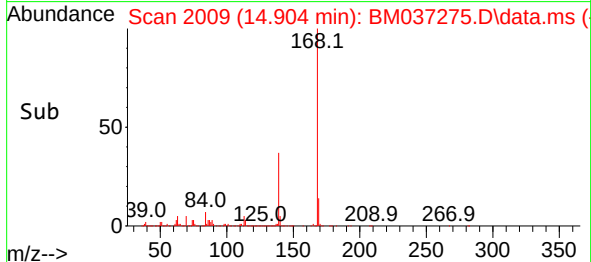
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:168 Resp: 392315
Ion Ratio Lower Upper
168 100
139 36.8 29.3 43.9
169 13.5 10.6 16.0

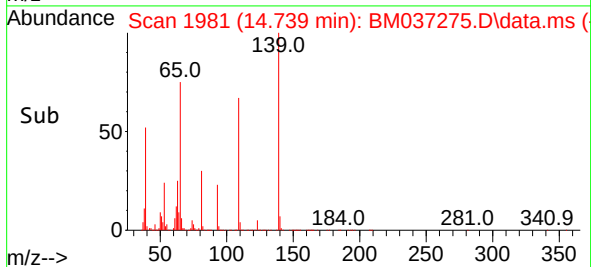
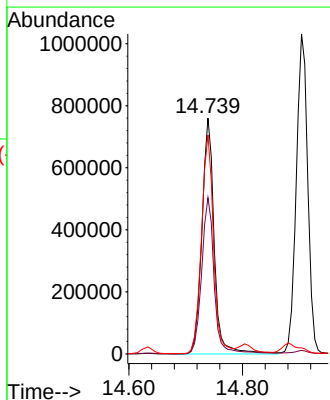
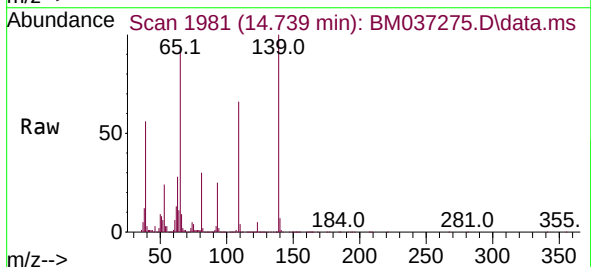
Manual Integrations
APPROVED

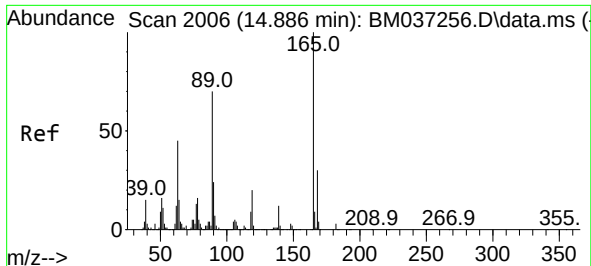
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#56
4-Nitrophenol
Concen: 79.671 ng
RT: 14.739 min Scan# 1981
Delta R.T. 0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

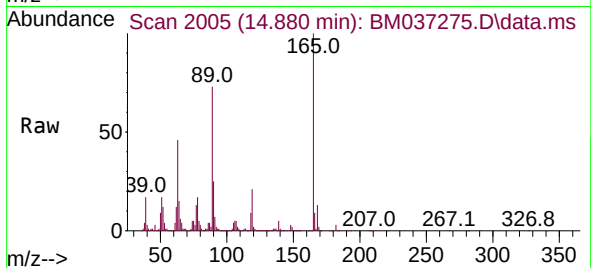
Tgt Ion:139 Resp: 1139382
Ion Ratio Lower Upper
139 100
109 66.3 47.4 87.4
65 92.9 73.8 113.8





#57
2,4-Dinitrotoluene
Concen: 41.011 ng
RT: 14.880 min Scan# 2006
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

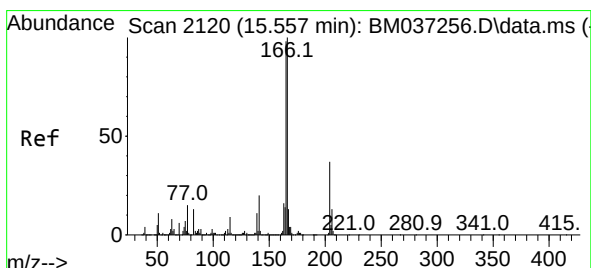
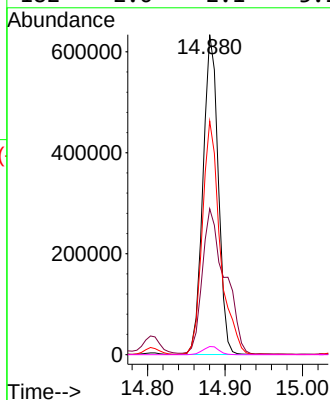
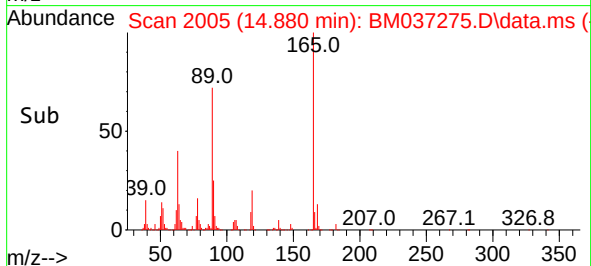
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:165 Resp: 865933
Ion Ratio Lower Upper
165 100
63 45.6 36.3 54.5
89 73.0 56.3 84.5
182 2.6 2.1 3.1

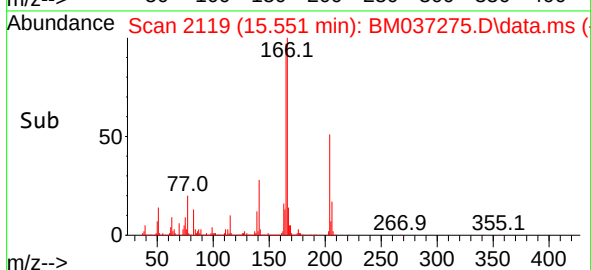
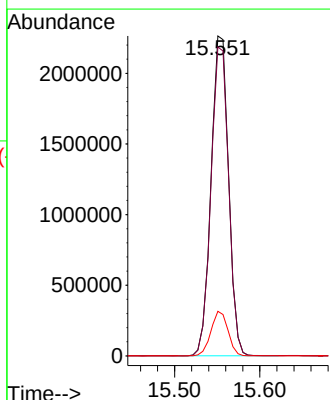
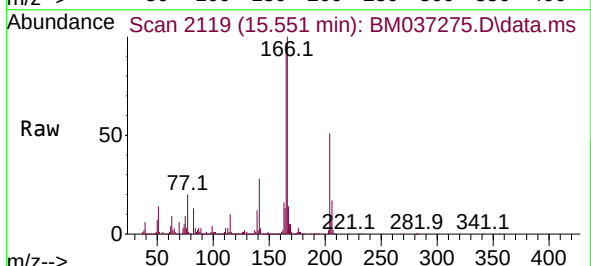
Manual Integrations
APPROVED

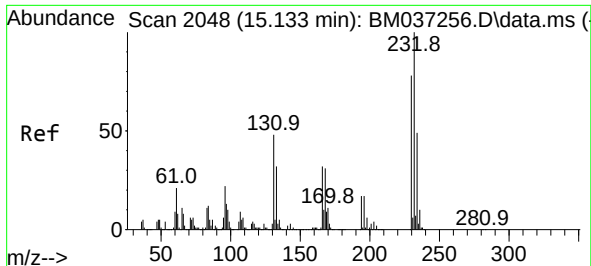
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#58
Fluorene
Concen: 41.106 ng
RT: 15.551 min Scan# 2119
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

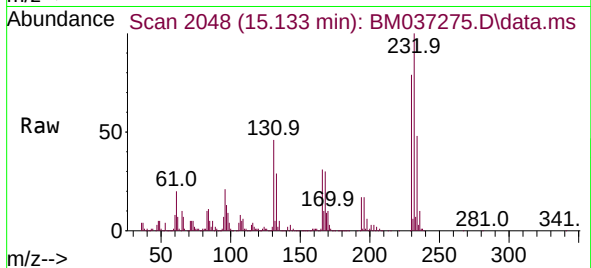
Tgt Ion:166 Resp: 3231036
Ion Ratio Lower Upper
166 100
165 96.5 78.2 117.4
167 13.9 10.6 15.8





#59
2,3,4,6-Tetrachlorophenol
Concen: 39.614 ng
RT: 15.133 min Scan# 2048
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

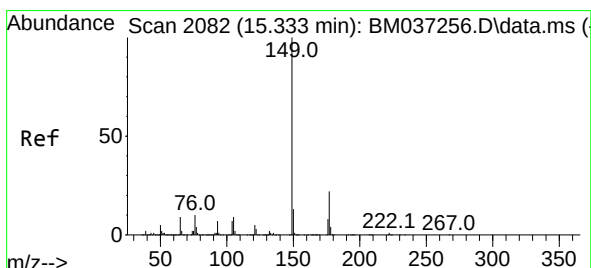
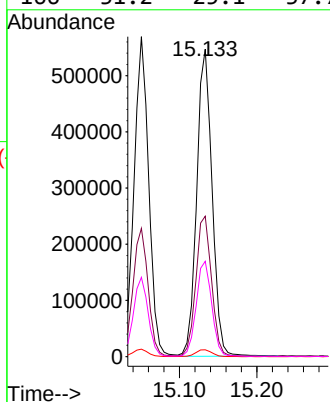
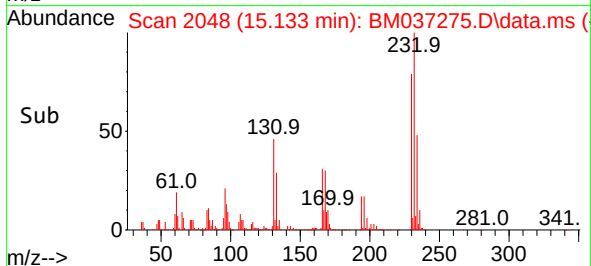
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:232 Resp: 752075
Ion Ratio Lower Upper
232 100
131 46.7 37.8 56.8
130 2.4 1.9 2.9
166 31.2 25.1 37.7

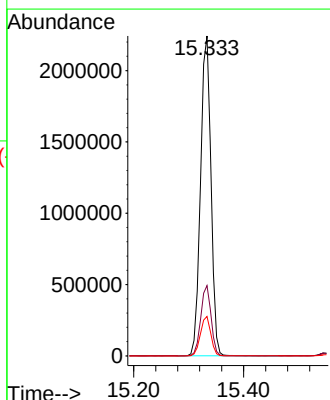
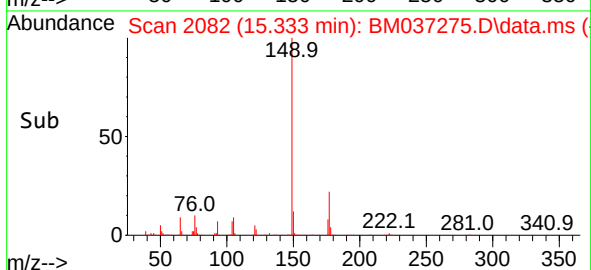
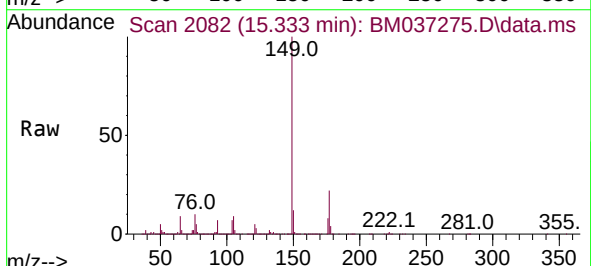
Manual Integrations
APPROVED

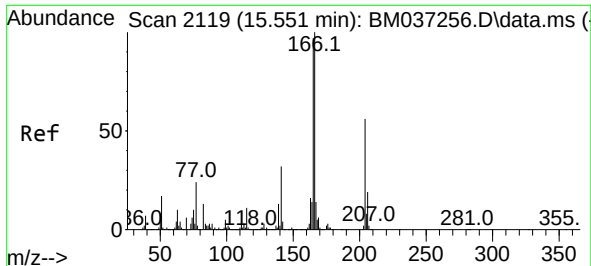
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#60
Diethylphthalate
Concen: 39.929 ng
RT: 15.333 min Scan# 2082
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

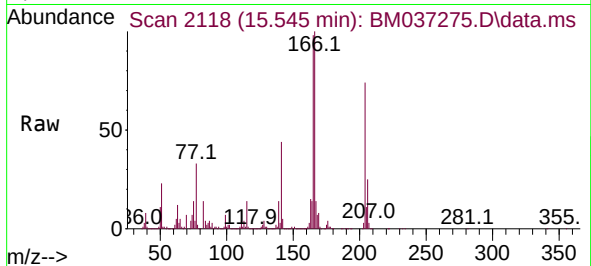
Tgt Ion:149 Resp: 2940601
Ion Ratio Lower Upper
149 100
177 22.0 17.4 26.0
150 12.3 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 42.551 ng
RT: 15.545 min Scan# 2119
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

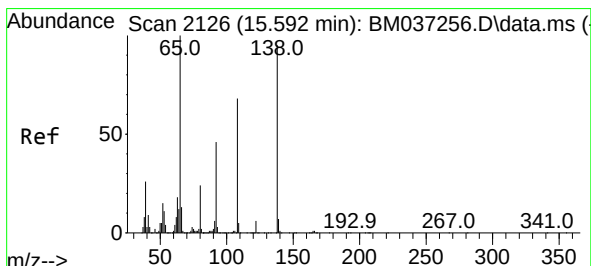
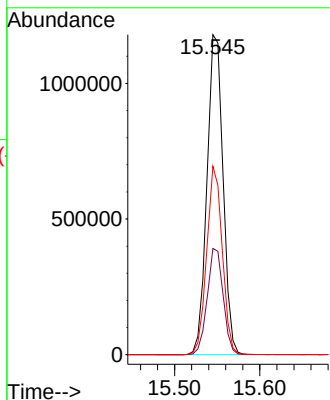
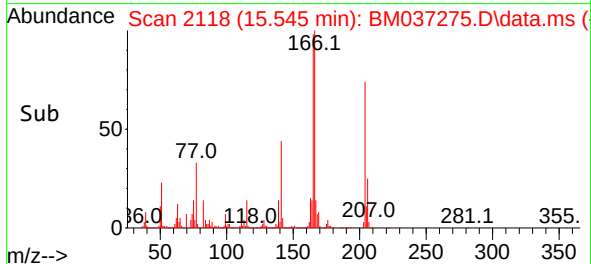
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:204 Resp: 1547336
Ion Ratio Lower Upper
204 100
206 33.2 26.6 39.8
141 58.9 45.2 67.8

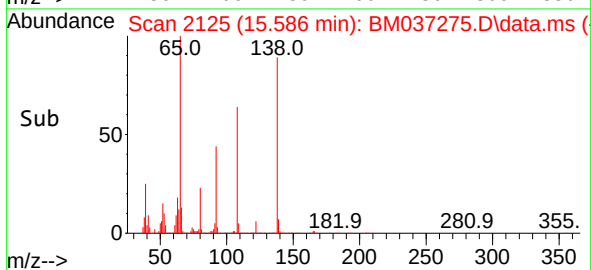
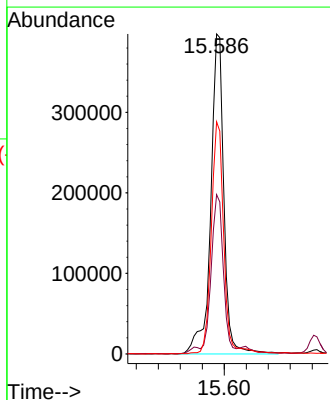
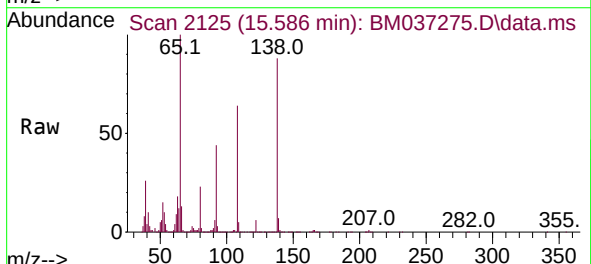
Manual Integrations
APPROVED

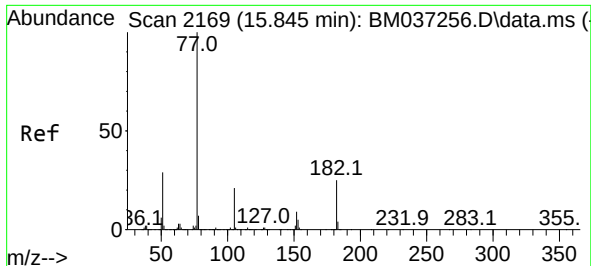
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#62
4-Nitroaniline
Concen: 36.635 ng
RT: 15.586 min Scan# 2125
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

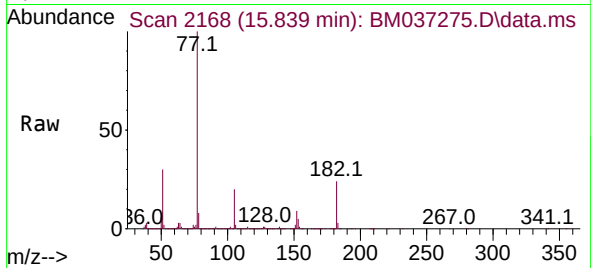
Tgt Ion:138 Resp: 658654
Ion Ratio Lower Upper
138 100
92 49.8 28.1 68.1
108 72.5 51.3 91.3





#63
Azobenzene
Concen: 41.086 ng
RT: 15.839 min Scan# 2169
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

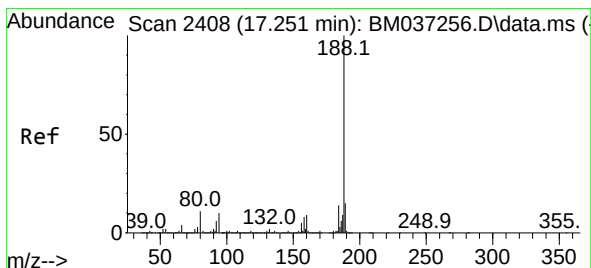
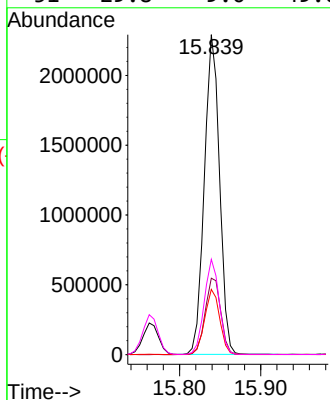
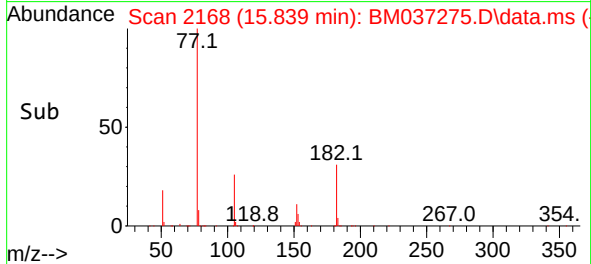
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion: 77 Resp: 2980833
Ion Ratio Lower Upper
77 100
182 23.9 5.1 45.1
105 20.4 0.5 40.5
51 29.8 9.0 49.0

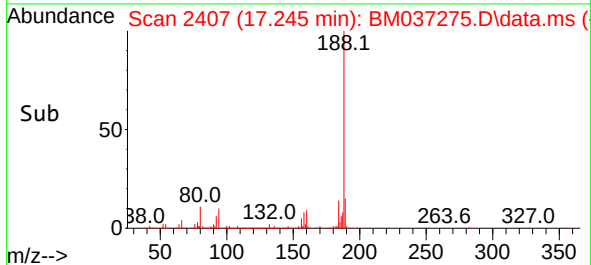
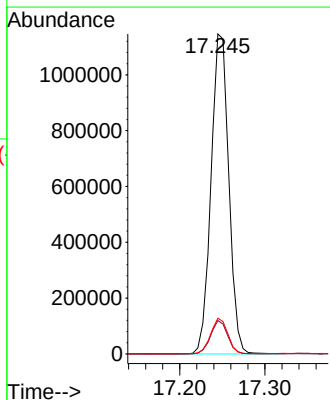
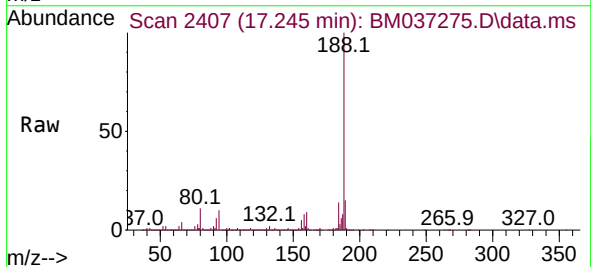
Manual Integrations
APPROVED

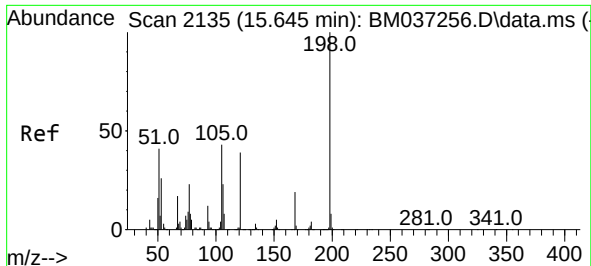
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.245 min Scan# 2407
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Tgt Ion:188 Resp: 1655430
Ion Ratio Lower Upper
188 100
94 10.4 7.9 11.9
80 11.1 8.5 12.7





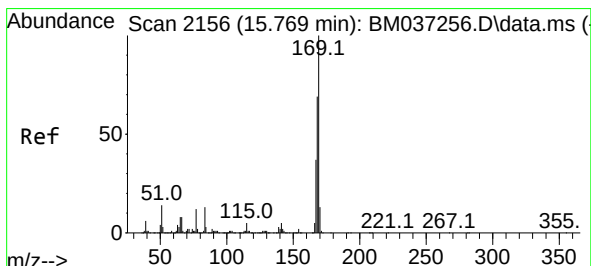
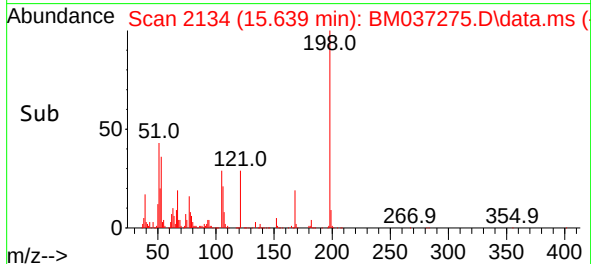
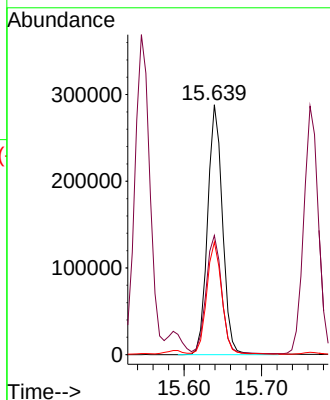
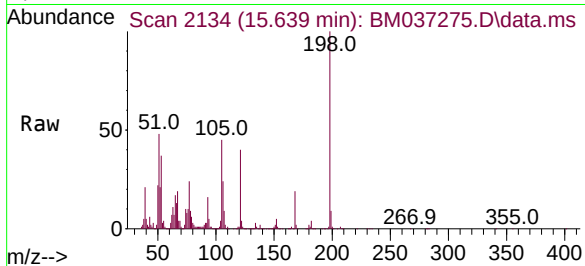
#65
4,6-Dinitro-2-methylphenol
Concen: 34.925 ng
RT: 15.639 min Scan# 2134
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS

Tgt Ion:198 Resp: 385721
Ion Ratio Lower Upper
198 100
51 47.7 26.8 66.8
105 45.1 24.1 64.1

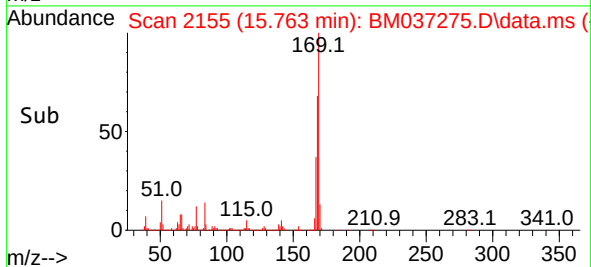
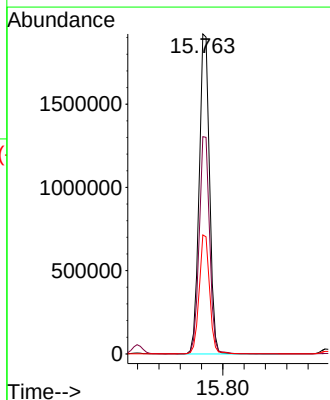
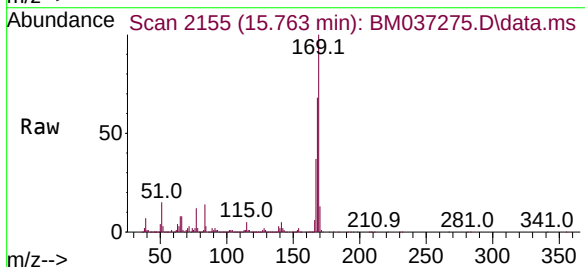
Manual Integrations
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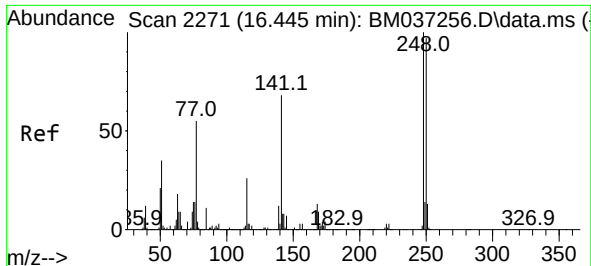
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#66
n-Nitrosodiphenylamine
Concen: 46.272 ng
RT: 15.763 min Scan# 2155
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

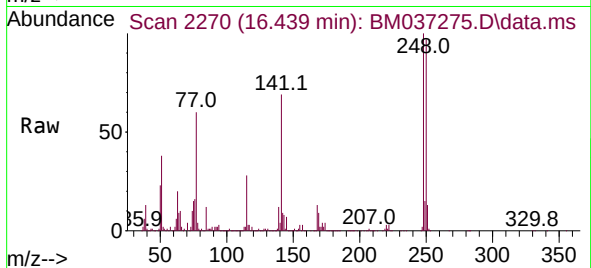
Tgt Ion:169 Resp: 2589150
Ion Ratio Lower Upper
169 100
168 67.9 54.8 82.2
167 37.2 29.5 44.3





#67
4-Bromophenyl-phenylether
Concen: 47.293 ng
RT: 16.439 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

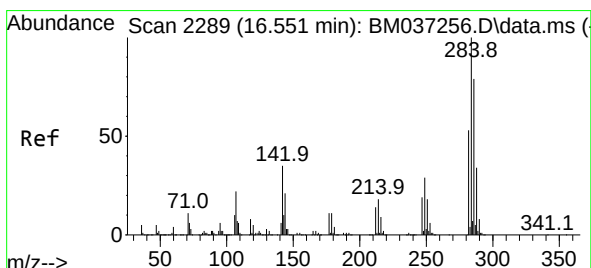
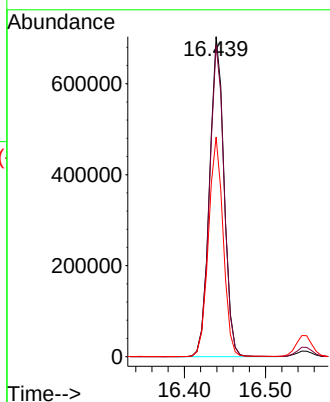
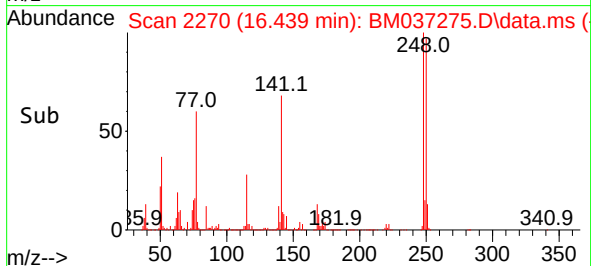
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:248 Resp: 878562
Ion Ratio Lower Upper
248 100
250 97.3 77.8 116.6
141 68.6 54.2 81.2

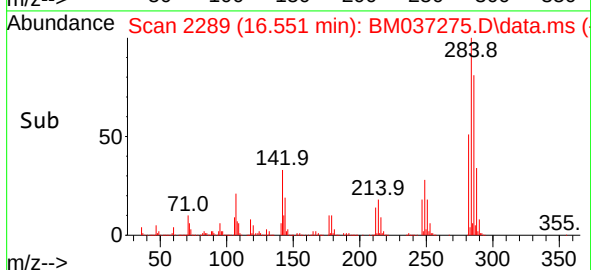
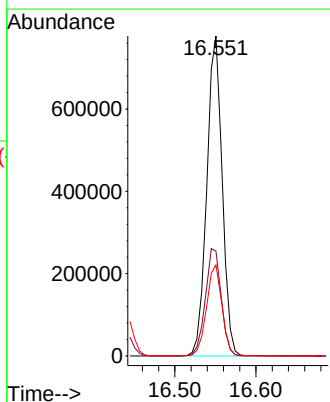
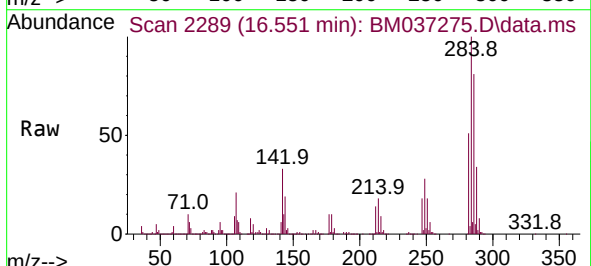
Manual Integrations
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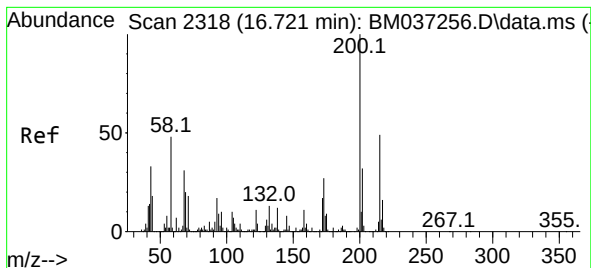
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#68
Hexachlorobenzene
Concen: 45.597 ng
RT: 16.551 min Scan# 2289
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Tgt Ion:284 Resp: 1025110
Ion Ratio Lower Upper
284 100
142 32.7 28.2 42.4
249 28.4 23.1 34.7





#69

Atrazine

Concen: 54.665 ng

RT: 16.715 min Scan# 2317

Delta R.T. -0.006 min

Lab File: BM037275.D

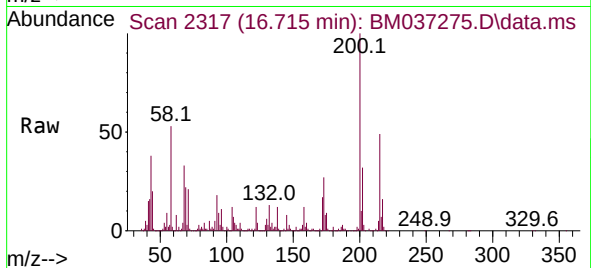
Acq: 29 Oct 2022 17:39

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMS



Tgt Ion:200 Resp: 769625

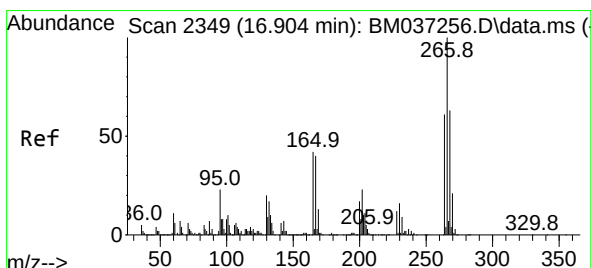
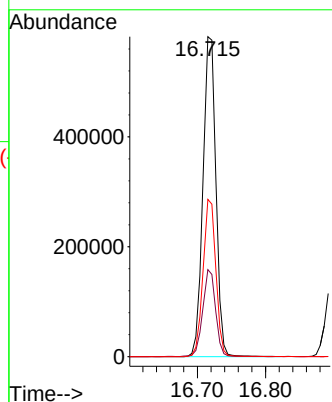
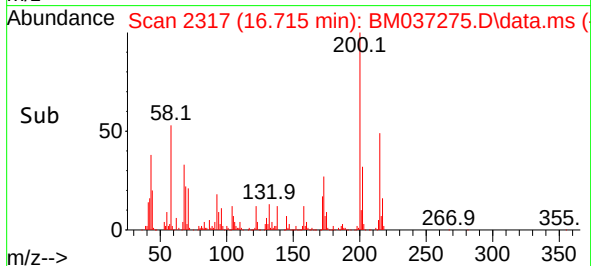
Ion	Ratio	Lower	Upper
200	100		
173	27.2	6.8	46.8
215	49.1	28.5	68.5

Manual Integrations

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Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#70

Pentachlorophenol

Concen: 86.419 ng

RT: 16.898 min Scan# 2348

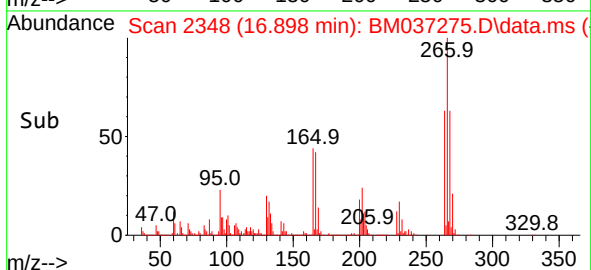
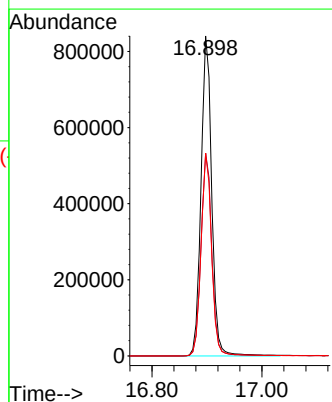
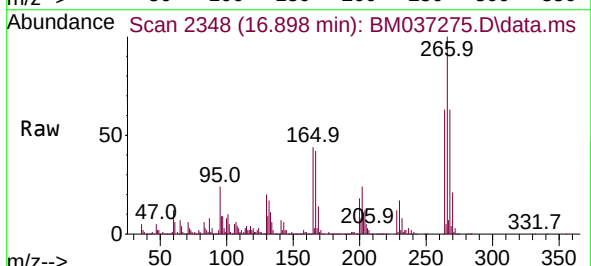
Delta R.T. -0.006 min

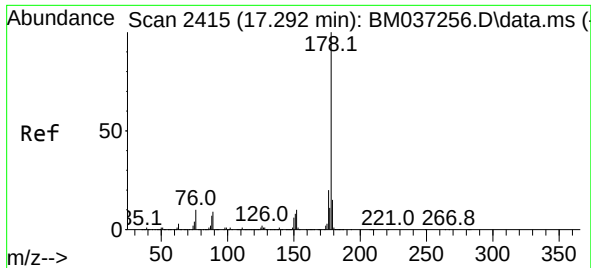
Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

Tgt Ion:266 Resp: 1130527

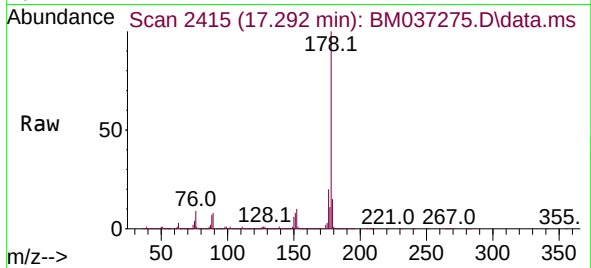
Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.7	76.1
264	63.3	49.1	73.7





#71
Phenanthrene
Concen: 42.763 ng
RT: 17.292 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

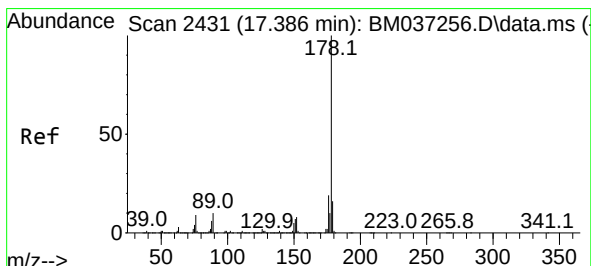
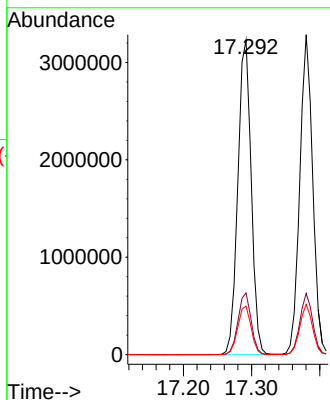
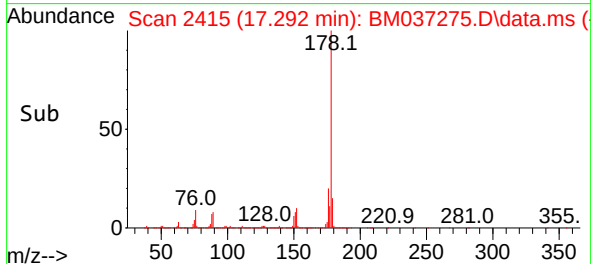
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:178 Resp: 4391963
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.4 12.4 18.6

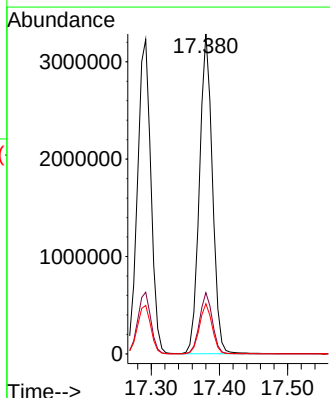
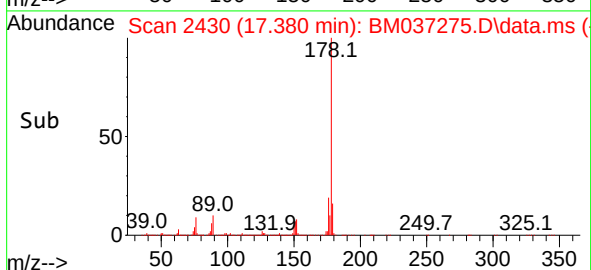
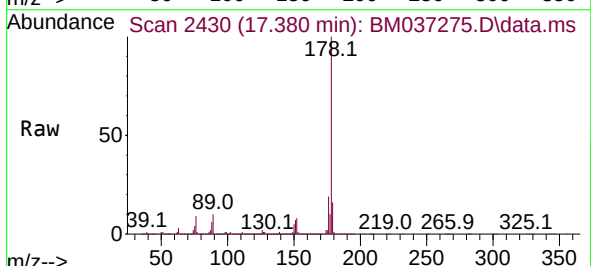
Manual Integrations
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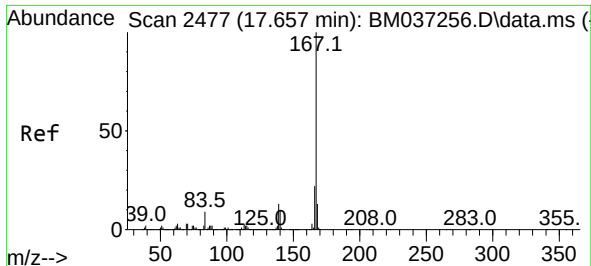
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#72
Anthracene
Concen: 44.618 ng
RT: 17.380 min Scan# 2430
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

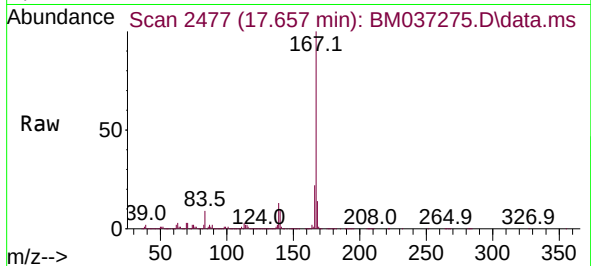
Tgt Ion:178 Resp: 4338269
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.7 12.6 19.0





#73
 Carbazole
 Concen: 42.622 ng
 RT: 17.657 min Scan# 2477
 Delta R.T. -0.000 min
 Lab File: BM037275.D
 Acq: 29 Oct 2022 17:39

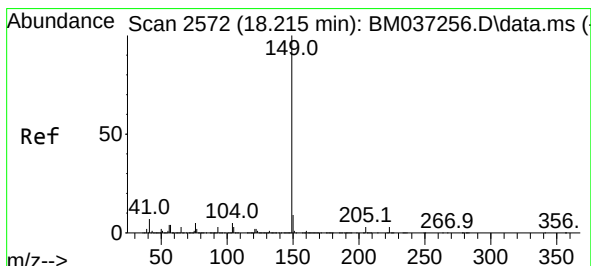
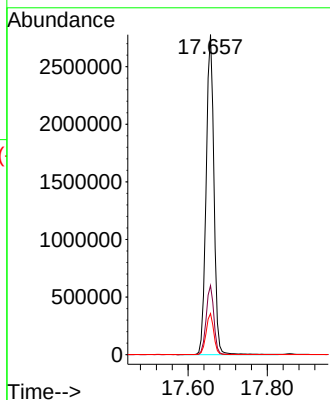
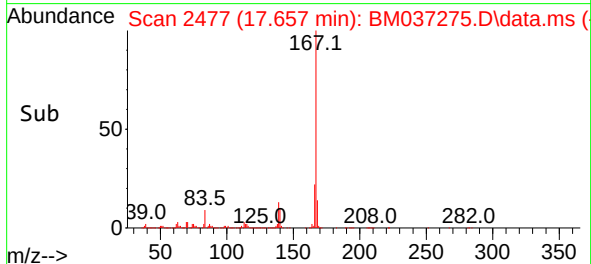
Instrument :
 BNA_M
 ClientSampleId :
 LIDEN-GAS-PIPELINEMS



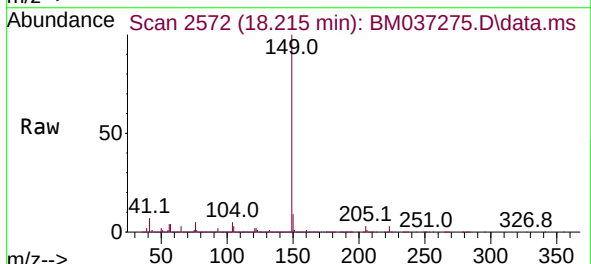
Tgt Ion:167 Resp: 3801398
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.4 26.2
 139 12.8 10.4 15.6

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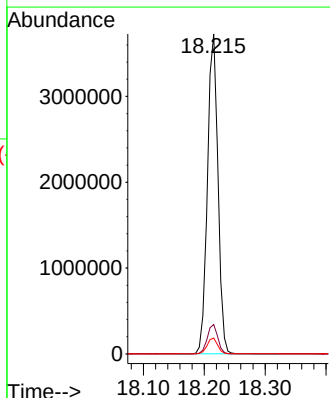
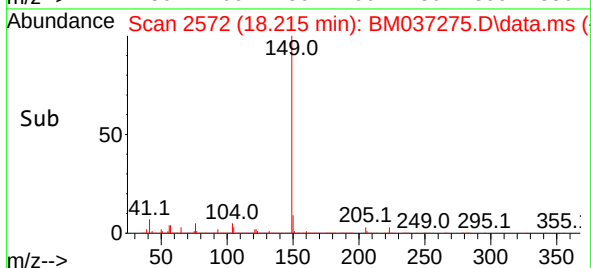
Reviewed By :Christian Giraldo 10/31/2022
 Supervised By :Jagrut Upadhyay 11/01/2022

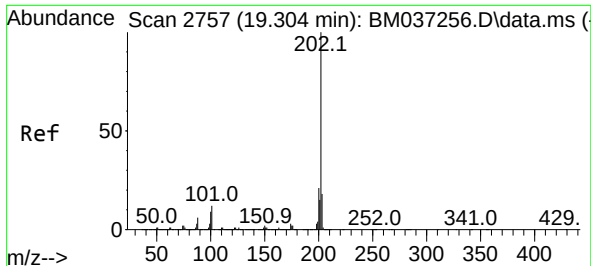


#74
 Di-n-butylphthalate
 Concen: 45.262 ng
 RT: 18.215 min Scan# 2572
 Delta R.T. -0.000 min
 Lab File: BM037275.D
 Acq: 29 Oct 2022 17:39



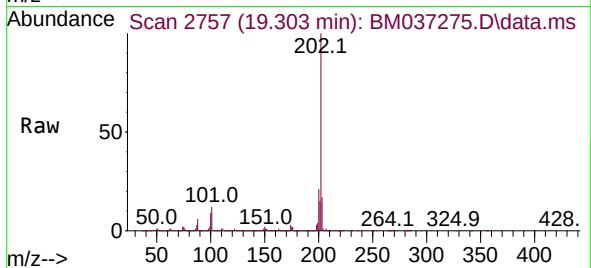
Tgt Ion:149 Resp: 4457487
 Ion Ratio Lower Upper
 149 100
 150 9.2 7.4 11.0
 104 4.9 4.0 6.0





#75
Fluoranthene
Concen: 40.060 ng
RT: 19.303 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

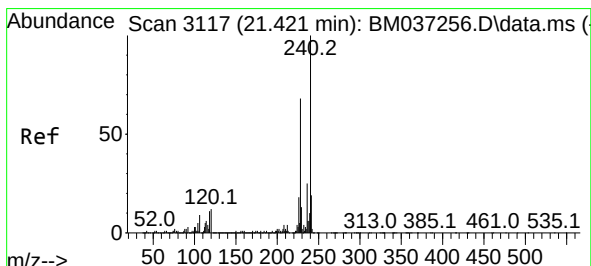
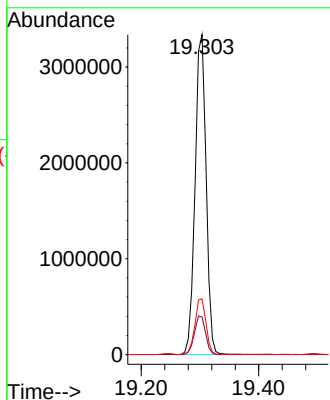
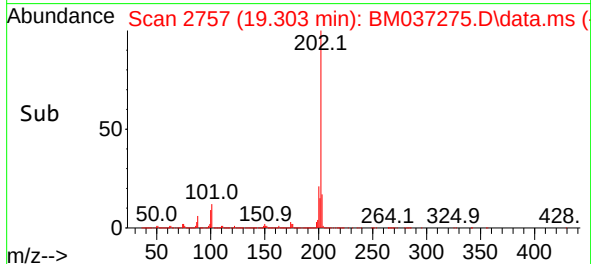
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:202 Resp: 4349118
Ion Ratio Lower Upper
202 100
101 11.7 0.0 32.4
203 17.4 0.0 37.8

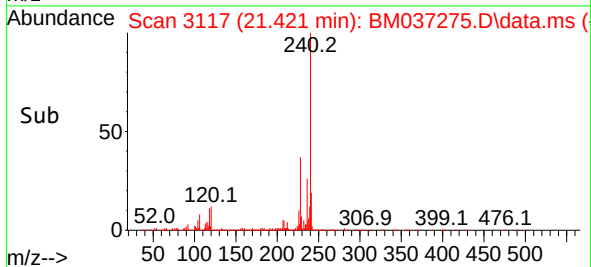
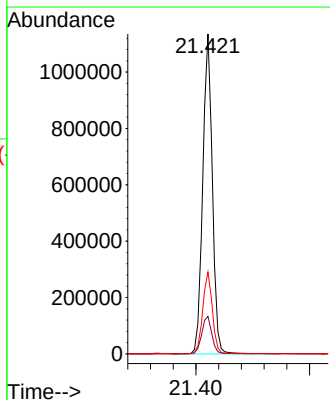
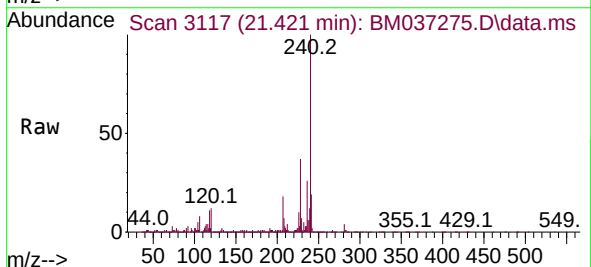
Manual Integrations
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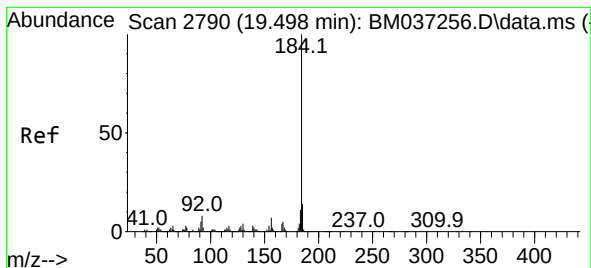
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.421 min Scan# 3117
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Tgt Ion:240 Resp: 1330783
Ion Ratio Lower Upper
240 100
120 11.7 9.9 14.9
236 25.6 20.3 30.5





#77

Benzidine

Concen: 111.020 ng

RT: 19.492 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMS

Tgt Ion:184 Resp: 2203056

Ion Ratio Lower Upper

184 100

185 14.2 11.3 16.9

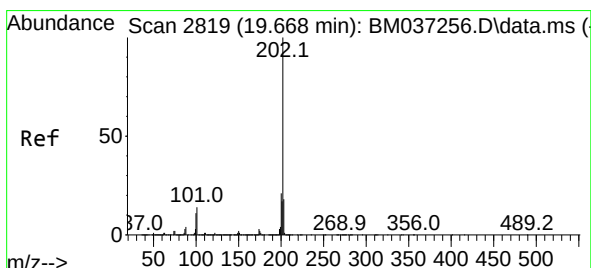
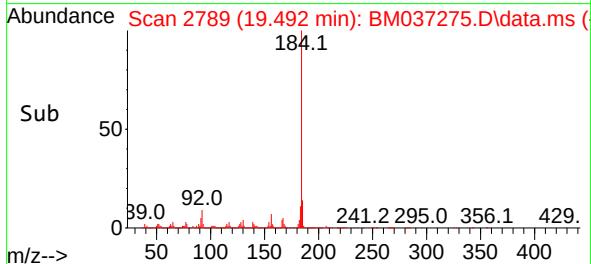
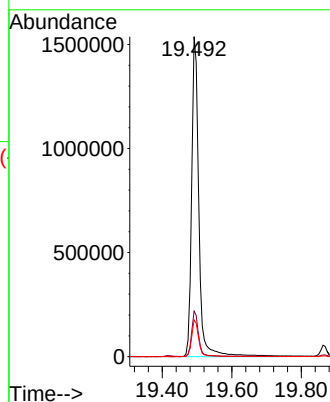
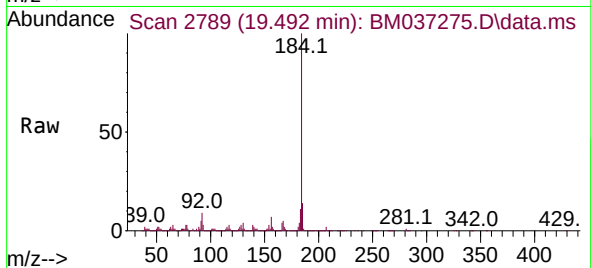
183 11.5 9.0 13.4

Manual Integrations

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Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#78

Pyrene

Concen: 43.648 ng

RT: 19.662 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

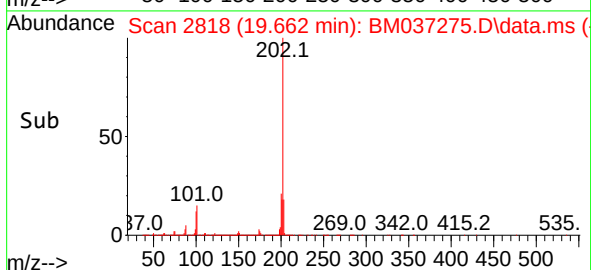
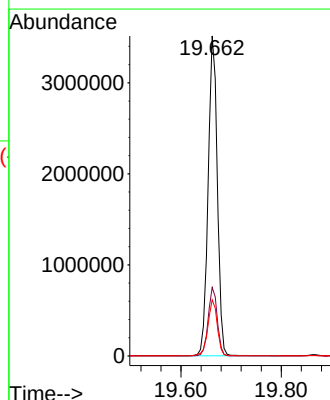
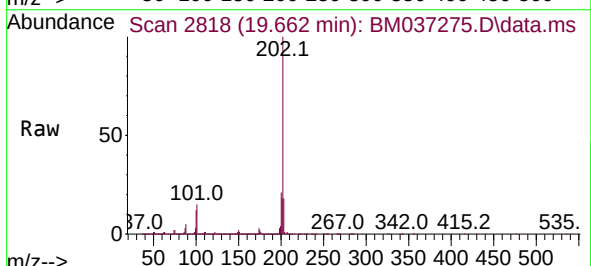
Tgt Ion:202 Resp: 4466621

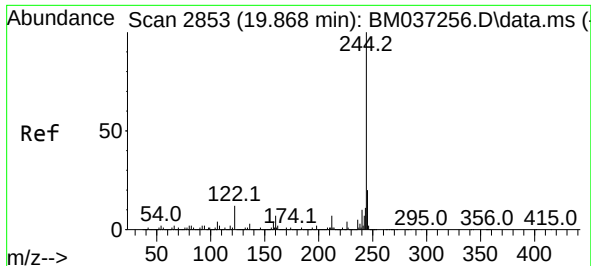
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

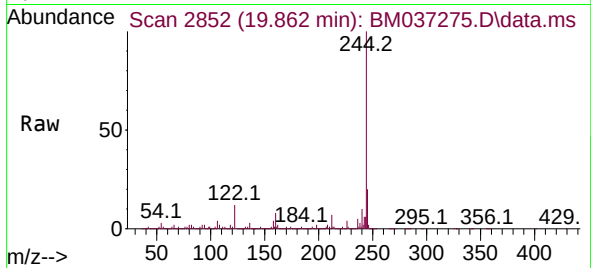
203 17.5 14.1 21.1





#79
 Terphenyl-d14
 Concen: 61.781 ng
 RT: 19.862 min Scan# 2853
 Delta R.T. -0.006 min
 Lab File: BM037275.D
 Acq: 29 Oct 2022 17:39

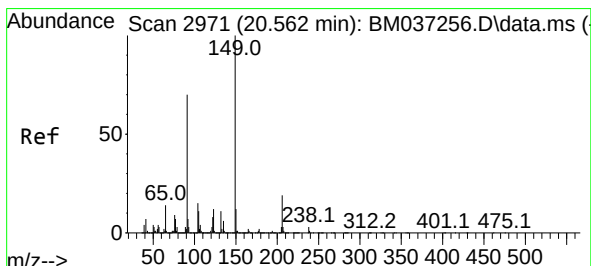
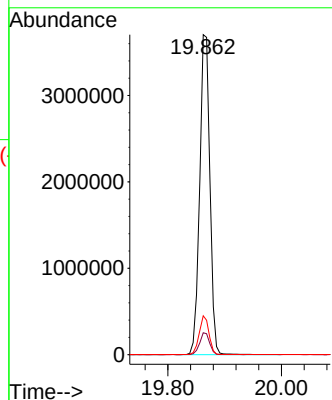
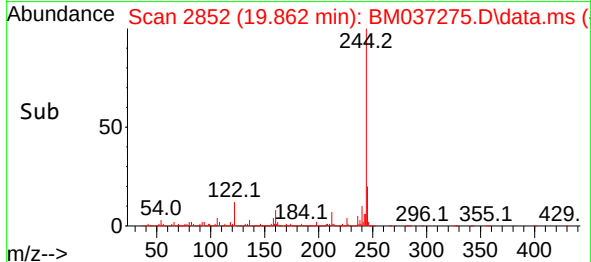
Instrument :
 BNA_M
 ClientSampleId :
 LIDEN-GAS-PIPELINEMS



Tgt Ion:244 Resp: 458478
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 12.1 9.4 14.2

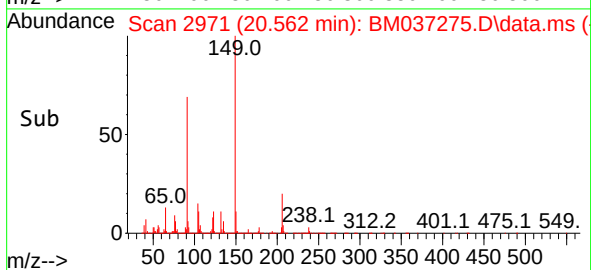
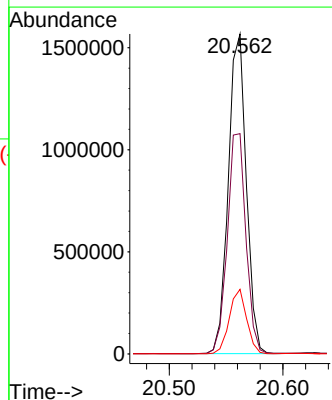
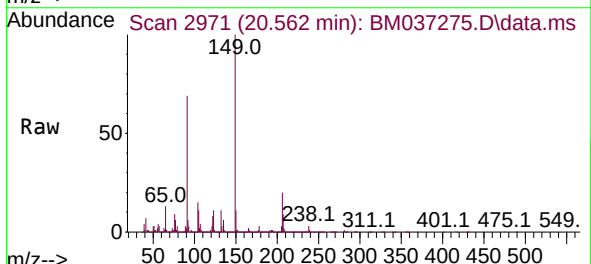
Manual Integrations
 APPROVED

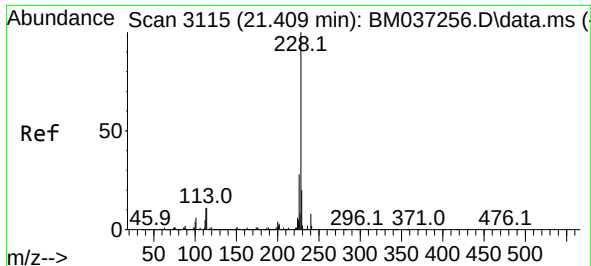
Reviewed By :Christian Giraldo 10/31/2022
 Supervised By :Jagrut Upadhyay 11/01/2022



#80
 Butylbenzylphthalate
 Concen: 47.242 ng
 RT: 20.562 min Scan# 2971
 Delta R.T. 0.000 min
 Lab File: BM037275.D
 Acq: 29 Oct 2022 17:39

Tgt Ion:149 Resp: 1726508
 Ion Ratio Lower Upper
 149 100
 91 68.8 56.2 84.4
 206 20.2 15.4 23.0





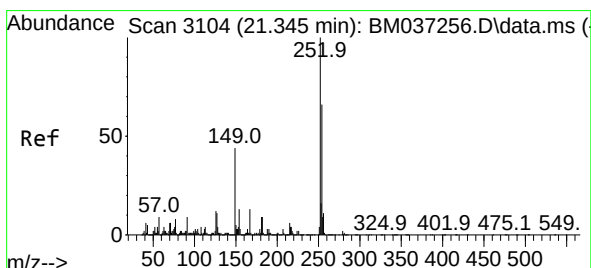
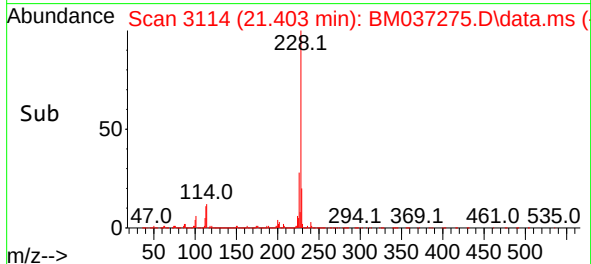
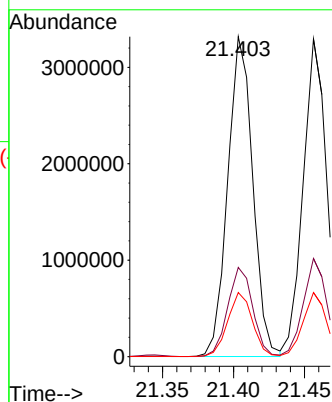
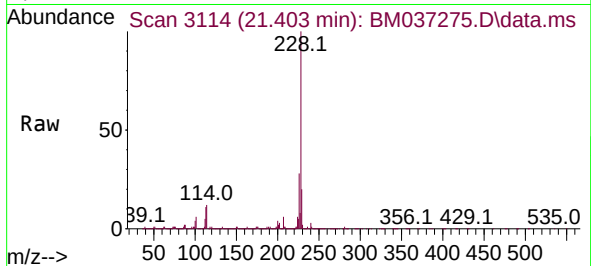
#81
Benzo(a)anthracene
Concen: 42.954 ng
RT: 21.403 min Scan# 3115
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS

Tgt Ion:228 Resp: 4069623
Ion Ratio Lower Upper
228 100
226 27.9 22.3 33.5
229 20.0 16.2 24.2

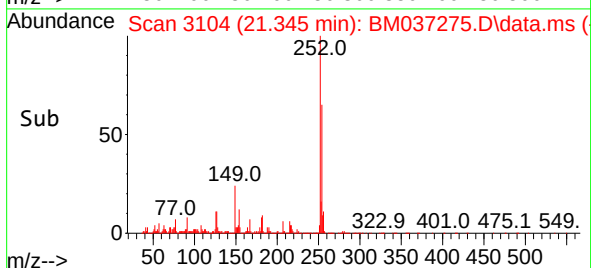
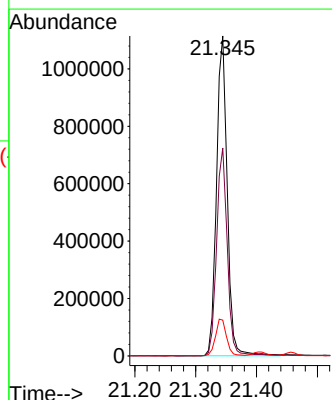
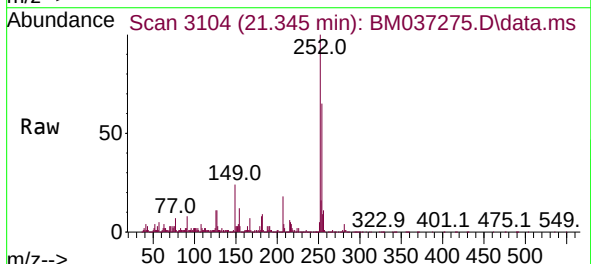
Manual Integrations
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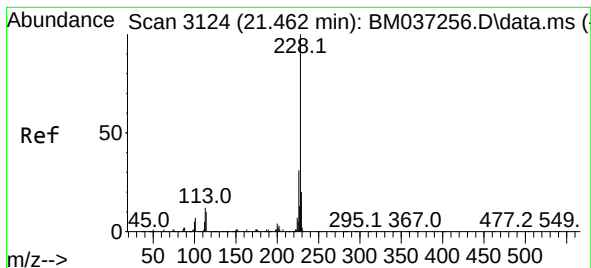
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#82
3,3'-Dichlorobenzidine
Concen: 48.929 ng
RT: 21.345 min Scan# 3104
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Tgt Ion:252 Resp: 1361517
Ion Ratio Lower Upper
252 100
254 65.0 52.7 79.1
126 11.2 9.8 14.6





#83

Chrysene

Concen: 41.951 ng

RT: 21.456 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

Instrument :

BNA_M

ClientSampleId :

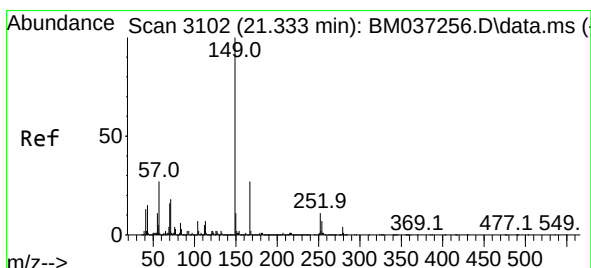
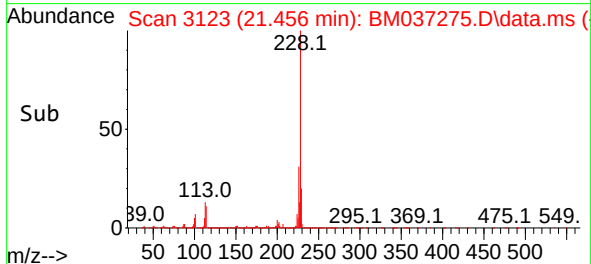
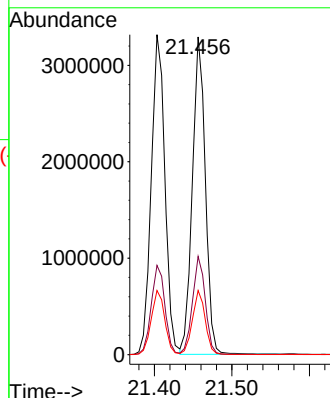
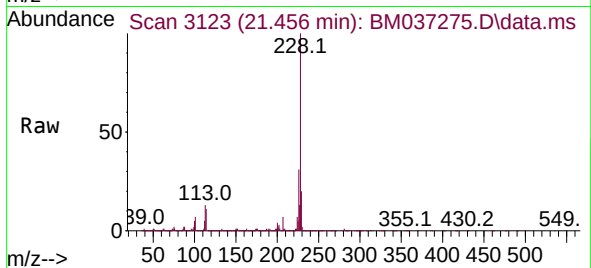
LIDEN-GAS-PIPELINEMS

Tgt Ion:228 Resp: 3829297
 Ion Ratio Lower Upper
 228 100
 226 30.9 24.4 36.6
 229 20.2 16.0 24.0

Manual Integrations

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Reviewed By :Christian Giraldo 10/31/2022
 Supervised By :Jagrut Upadhyay 11/01/2022



#84

Bis(2-ethylhexyl)phthalate

Concen: 50.856 ng

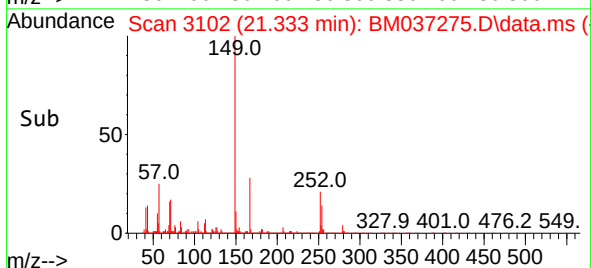
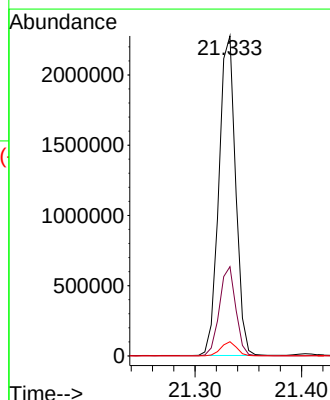
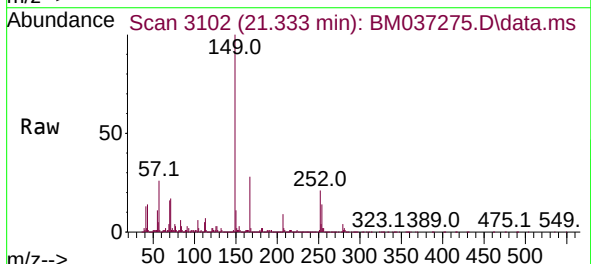
RT: 21.333 min Scan# 3102

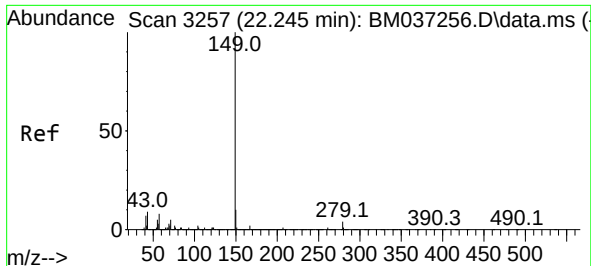
Delta R.T. -0.000 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

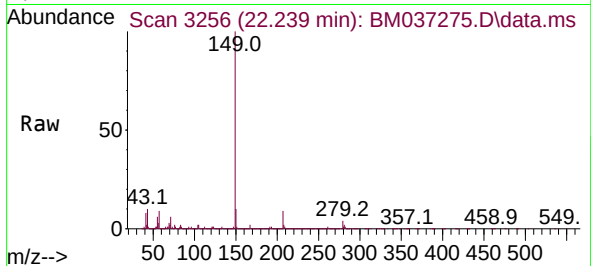
Tgt Ion:149 Resp: 2494467
 Ion Ratio Lower Upper
 149 100
 167 27.9 21.2 31.8
 279 4.4 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 53.081 ng
RT: 22.239 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

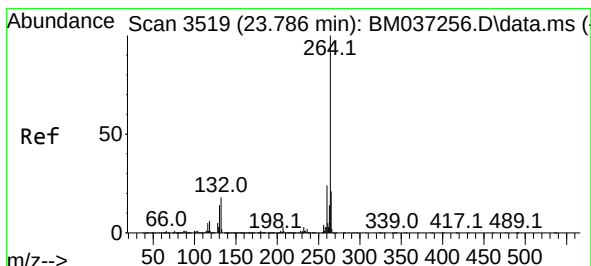
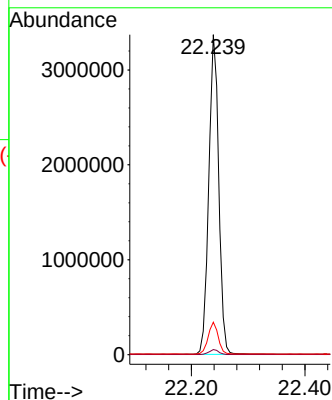
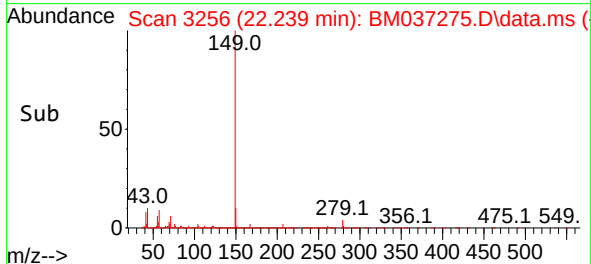
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion:149 Resp: 4100415
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 10.0 8.0 12.0

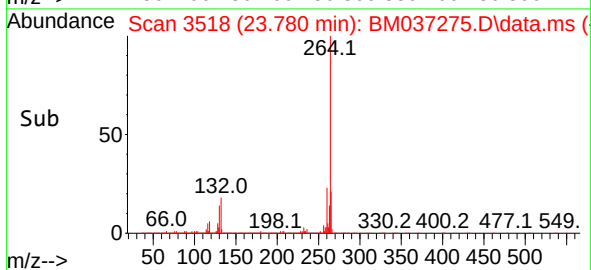
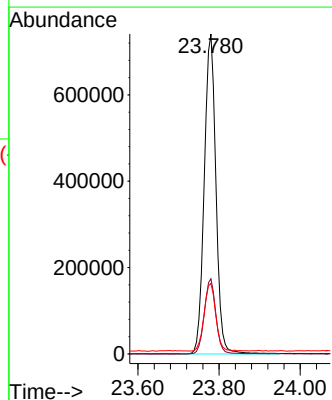
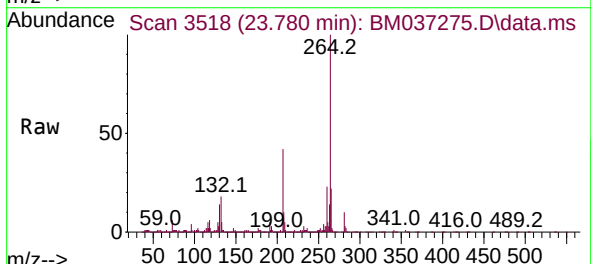
Manual Integrations
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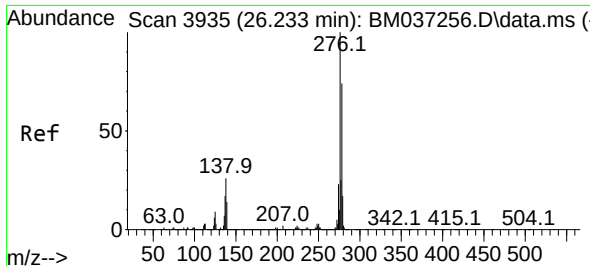
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.780 min Scan# 3518
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

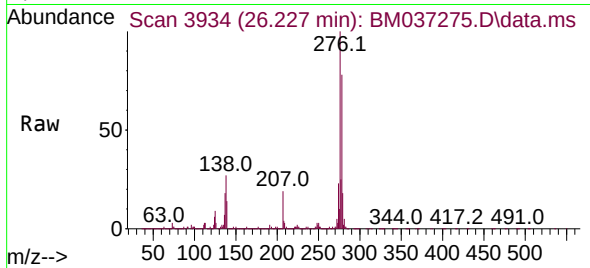
Tgt Ion:264 Resp: 1474298
Ion Ratio Lower Upper
264 100
260 23.5 18.9 28.3
265 22.0 17.7 26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 45.614 ng
RT: 26.227 min Scan# 3934
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

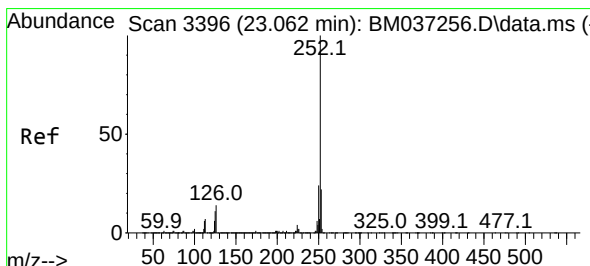
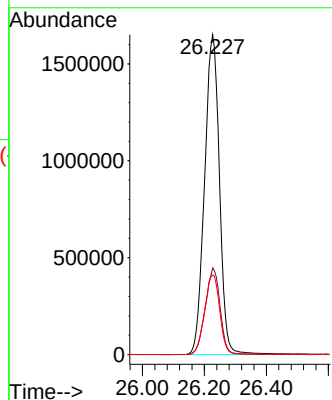
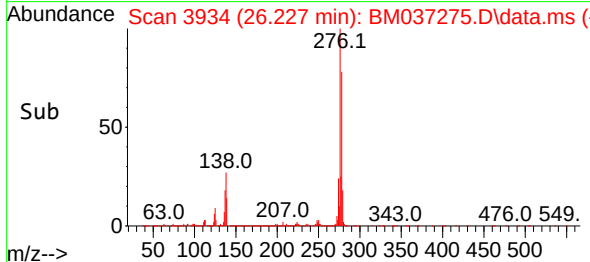
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS



Tgt Ion: 276 Resp: 5506164
Ion Ratio Lower Upper
276 100
138 26.9 21.5 32.3
277 25.3 20.1 30.1

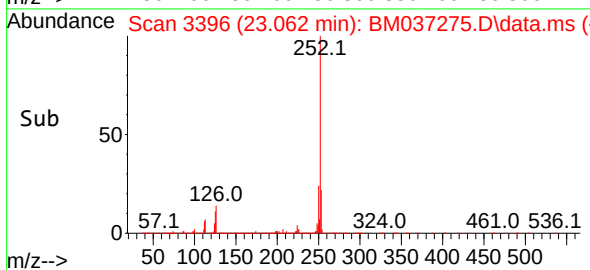
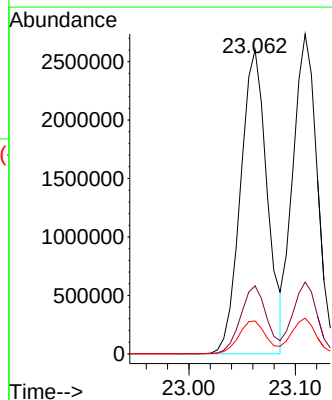
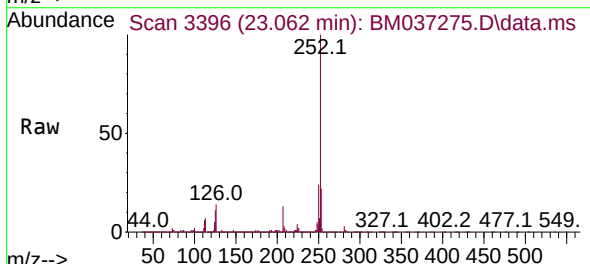
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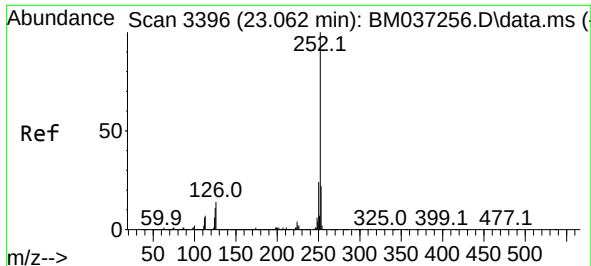
Reviewed By : Christian Giraldo 10/31/2022
Supervised By : Jagrut Upadhyay 11/01/2022



#88
Benzo(b)fluoranthene
Concen: 44.291 ng
RT: 23.062 min Scan# 3396
Delta R.T. -0.000 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Tgt Ion: 252 Resp: 4533292
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.6
125 10.8 9.1 13.7





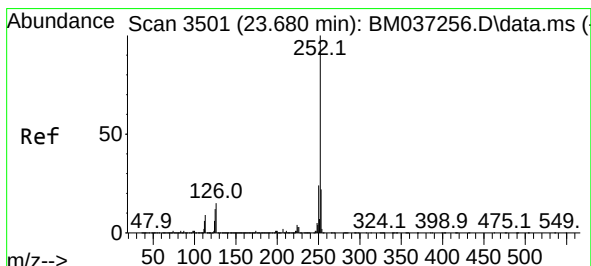
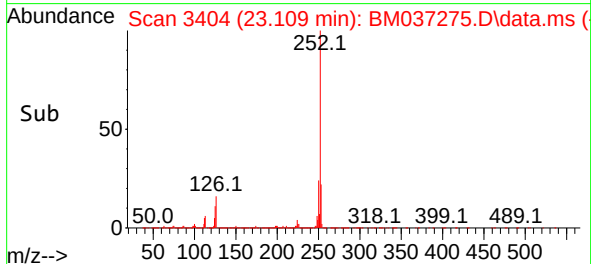
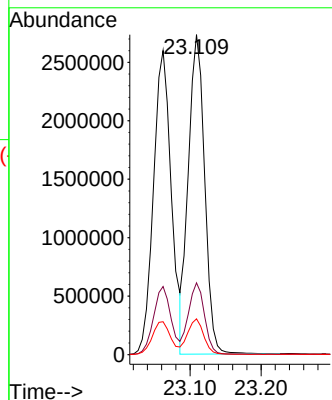
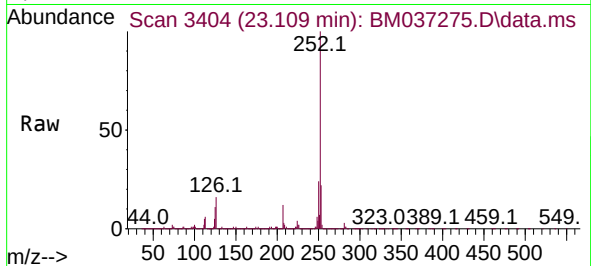
#89
Benzo(k)fluoranthene
Concen: 41.753 ng
RT: 23.109 min Scan# 34
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMS

Tgt Ion:252 Resp: 4359096
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.6
125 11.2 9.1 13.7

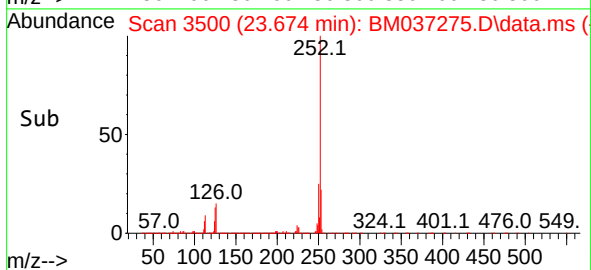
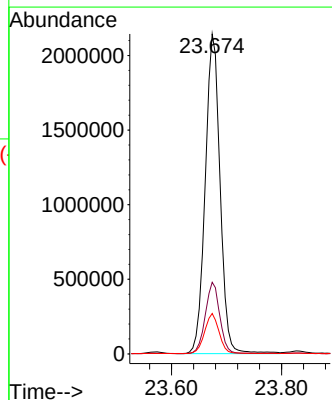
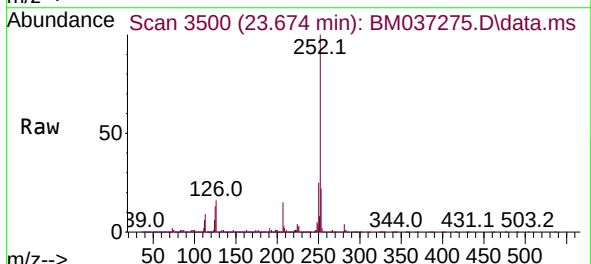
Manual Integrations
APPROVED

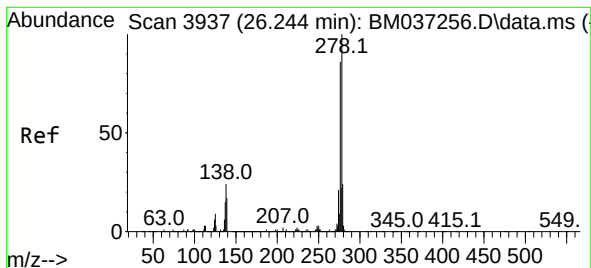
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#90
Benzo(a)pyrene
Concen: 48.104 ng
RT: 23.674 min Scan# 3500
Delta R.T. -0.006 min
Lab File: BM037275.D
Acq: 29 Oct 2022 17:39

Tgt Ion:252 Resp: 4011619
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 12.6 9.9 14.9





#91

Dibenzo(a,h)anthracene

Concen: 46.921 ng

RT: 26.244 min Scan# 3937

Delta R.T. -0.000 min

Lab File: BM037275.D

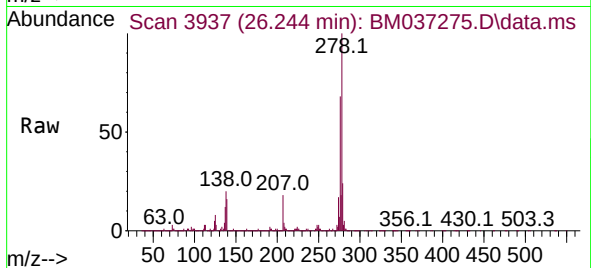
Acq: 29 Oct 2022 17:39

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMS



Tgt Ion:278 Resp: 4703545

Ion Ratio Lower Upper

278 100

139 16.4 13.8 20.8

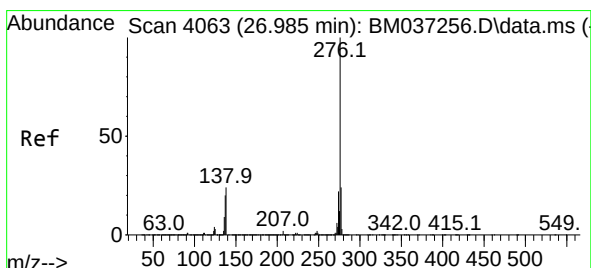
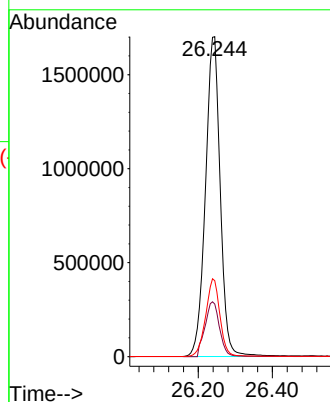
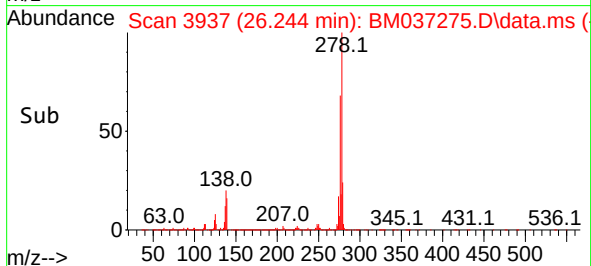
279 23.7 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#92

Benzo(g,h,i)perylene

Concen: 46.031 ng

RT: 26.979 min Scan# 4062

Delta R.T. -0.006 min

Lab File: BM037275.D

Acq: 29 Oct 2022 17:39

Tgt Ion:276 Resp: 4490954

Ion Ratio Lower Upper

276 100

277 24.1 19.4 29.2

138 23.5 18.9 28.3

