

Supplementary Material

Synthesis, characterization, analgesic and anti-inflammatory activity of new pyrazole derivatives

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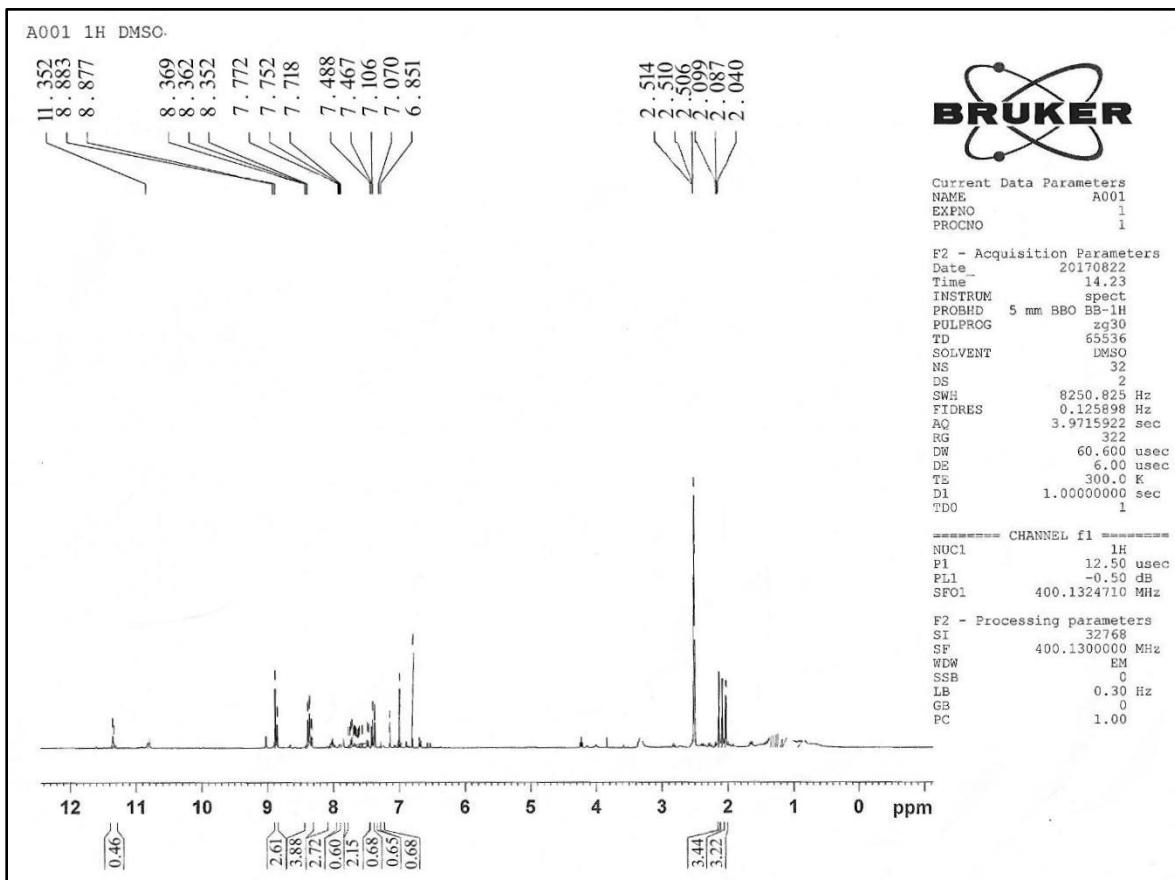
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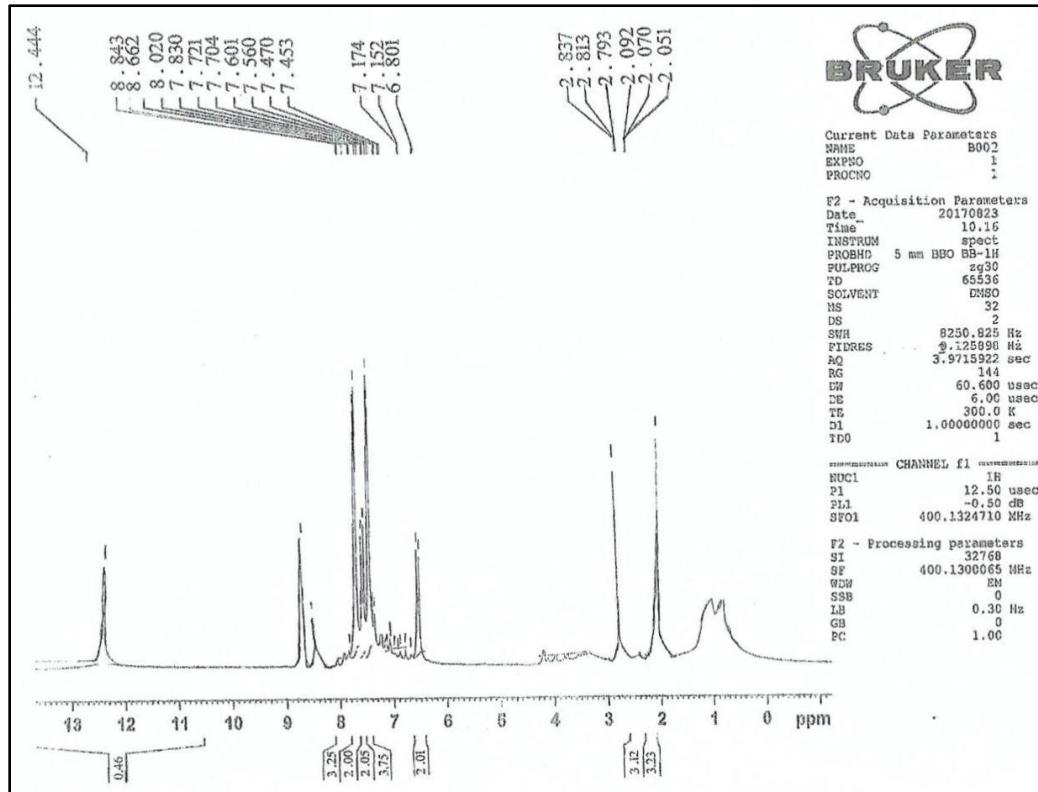
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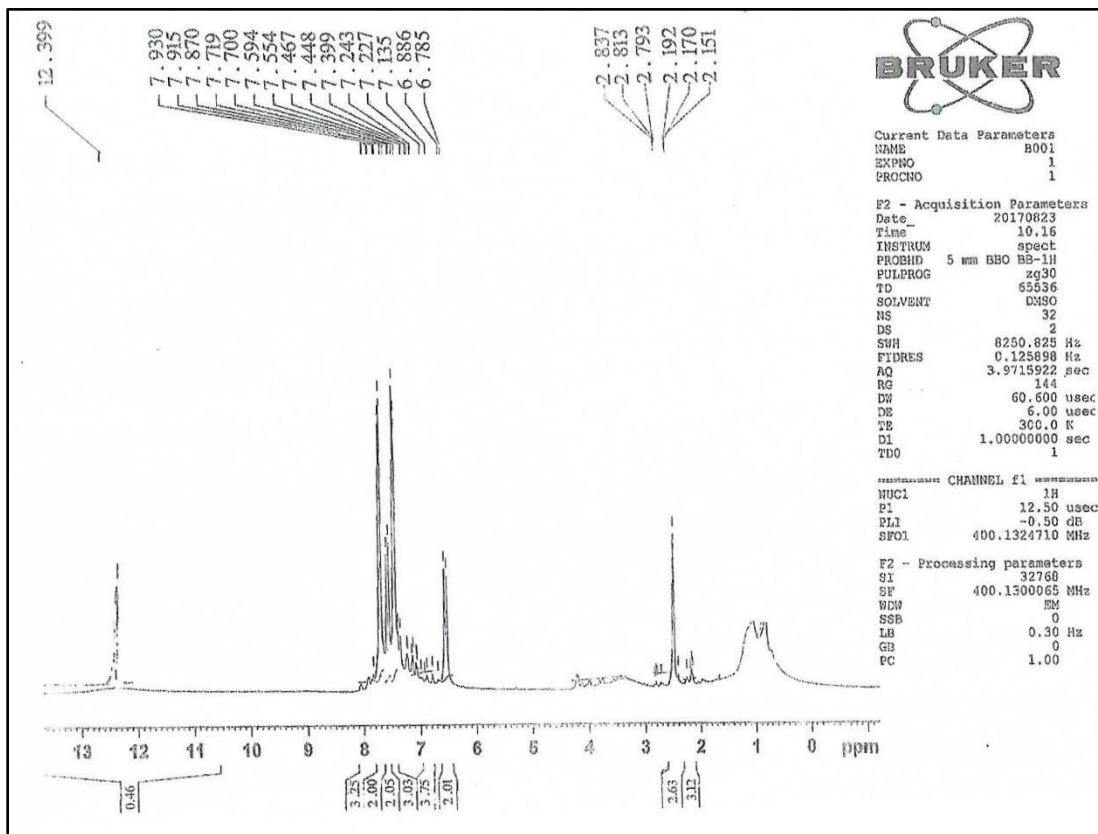
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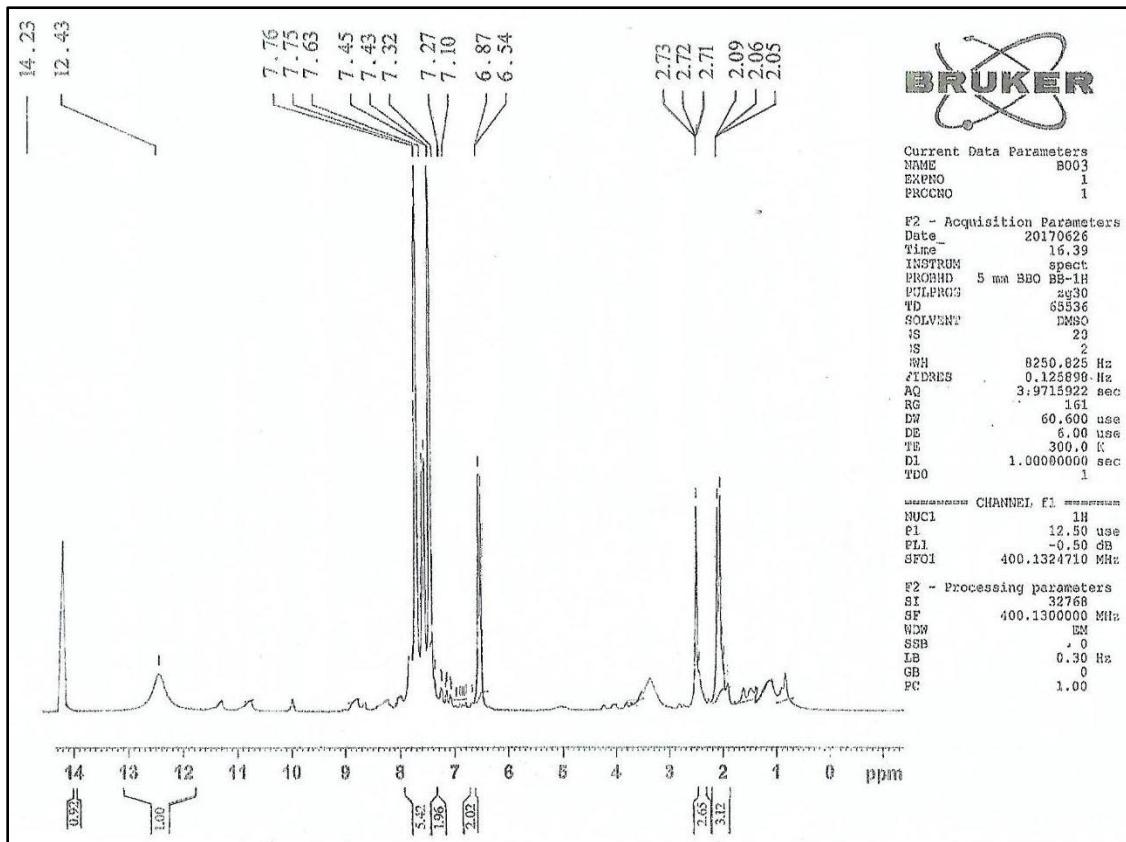
3-(4-Acetoxy-2-hydroxyphenyl)-5-(4-Nitrostyryl)-1-(2,4-dinitrophenyl) pyrazole



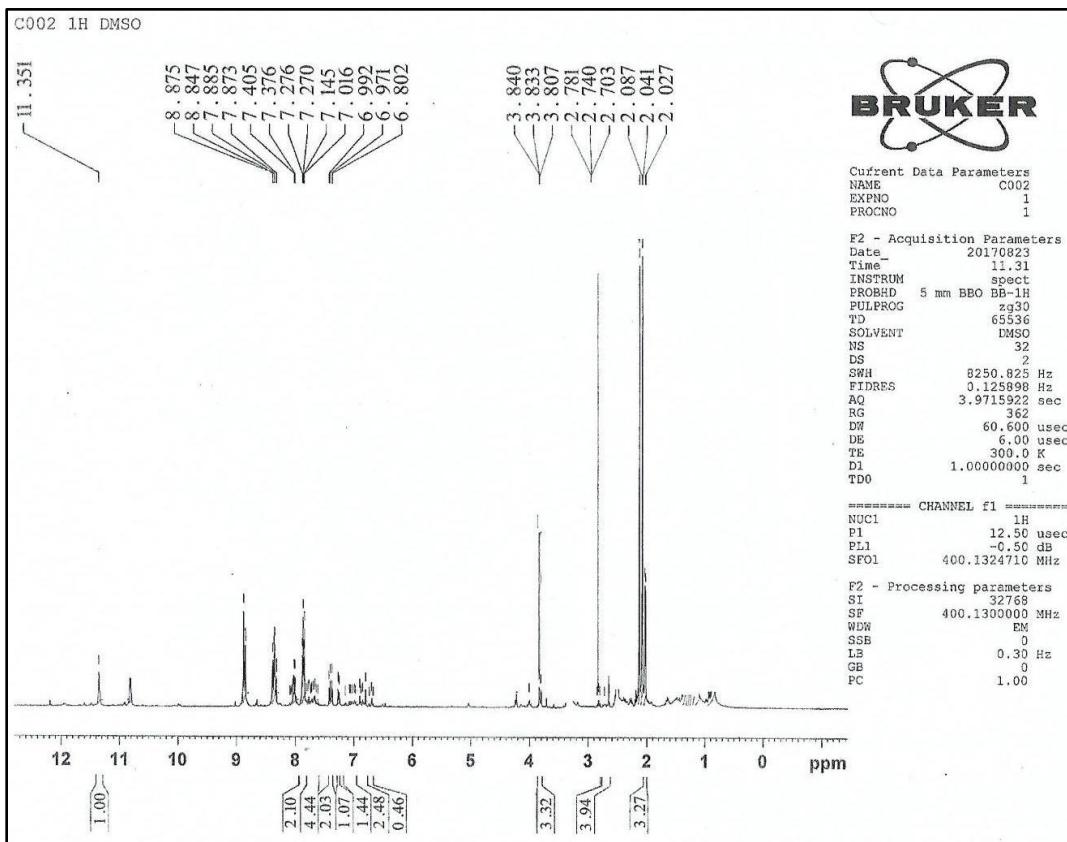
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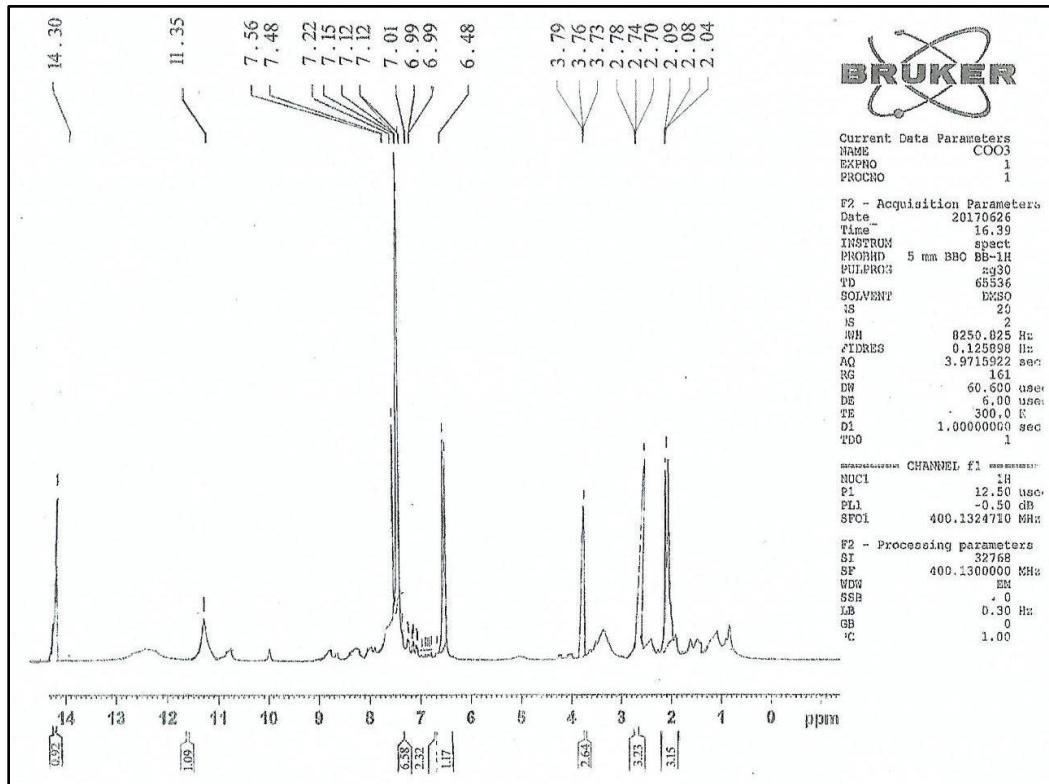
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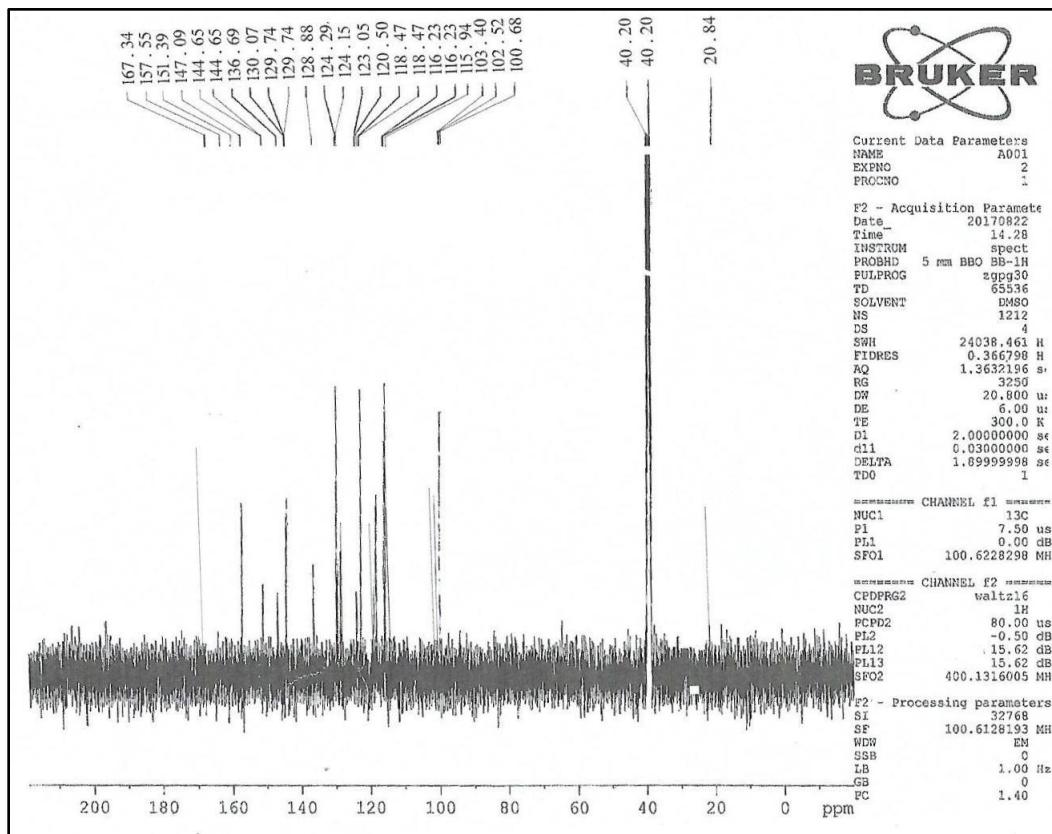
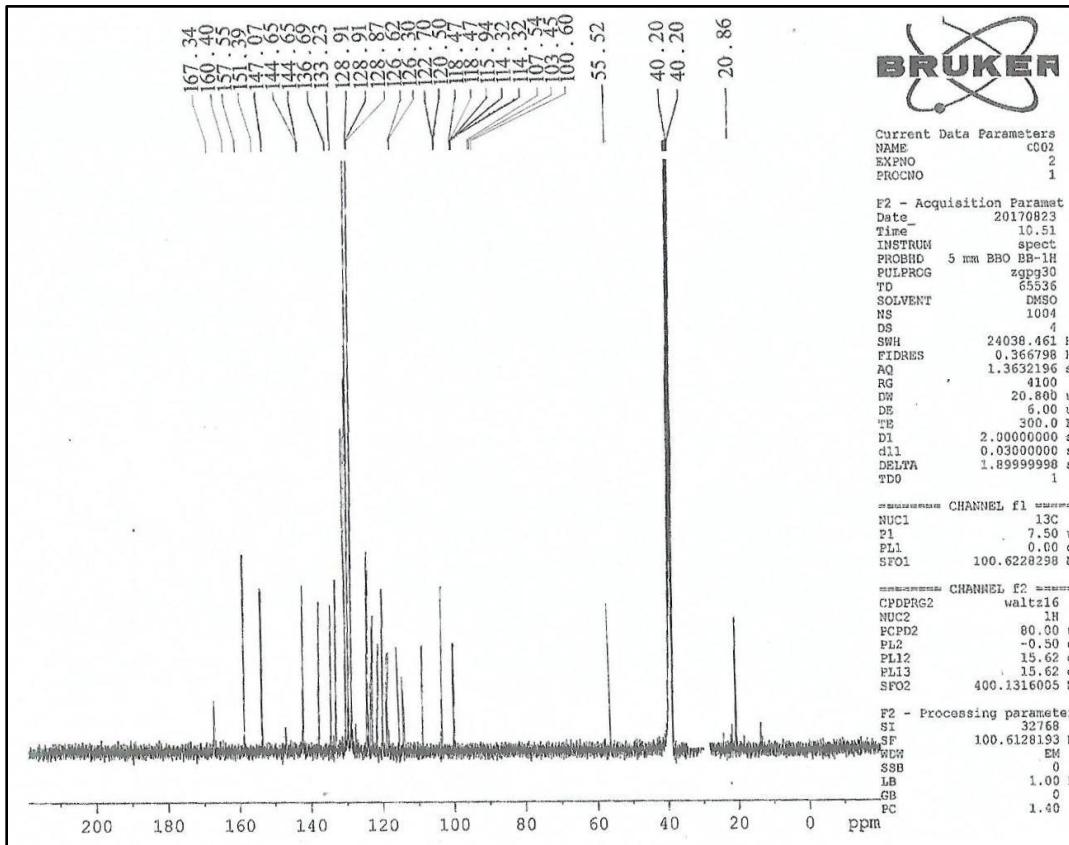
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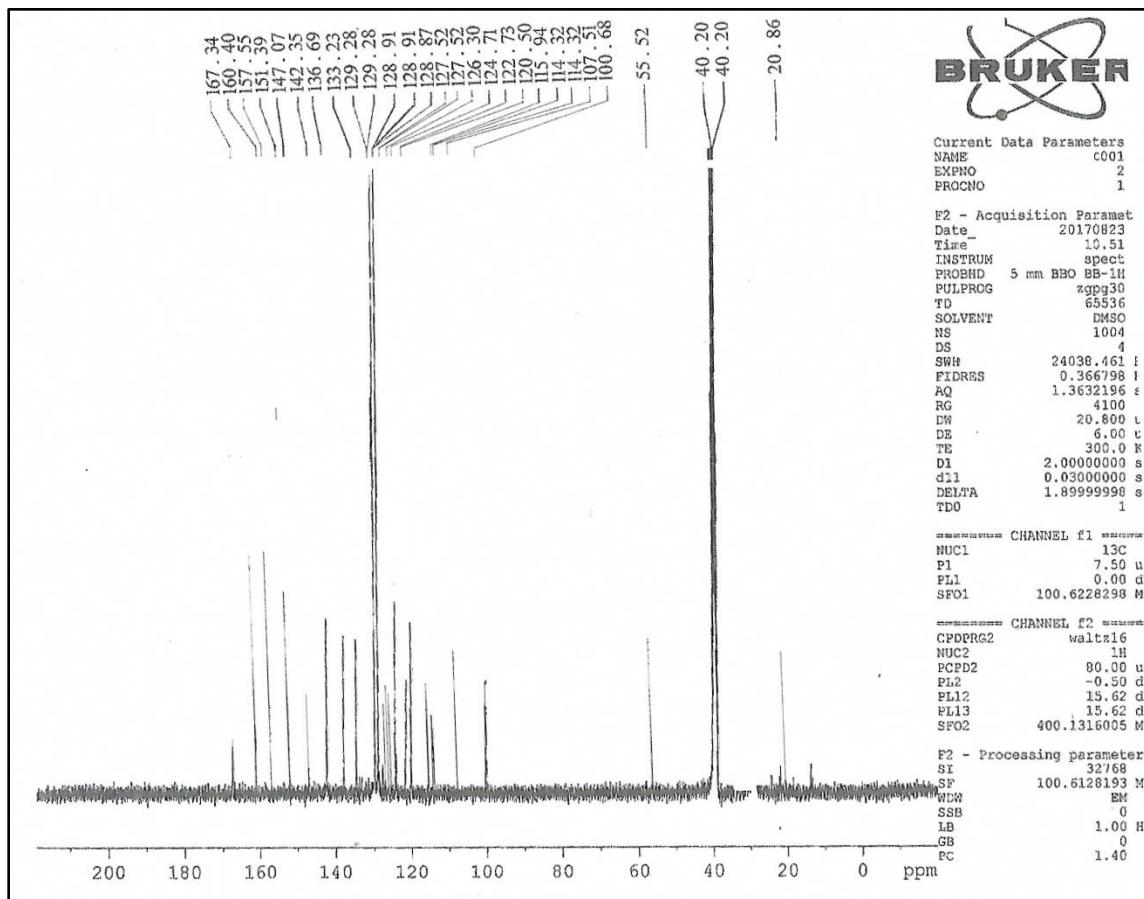


3-(4-Acetoxy-2-hydroxy phenyl)-5-(4-methoxystyryl)-1-(2, 4-dinitrophenyl) pyrazole

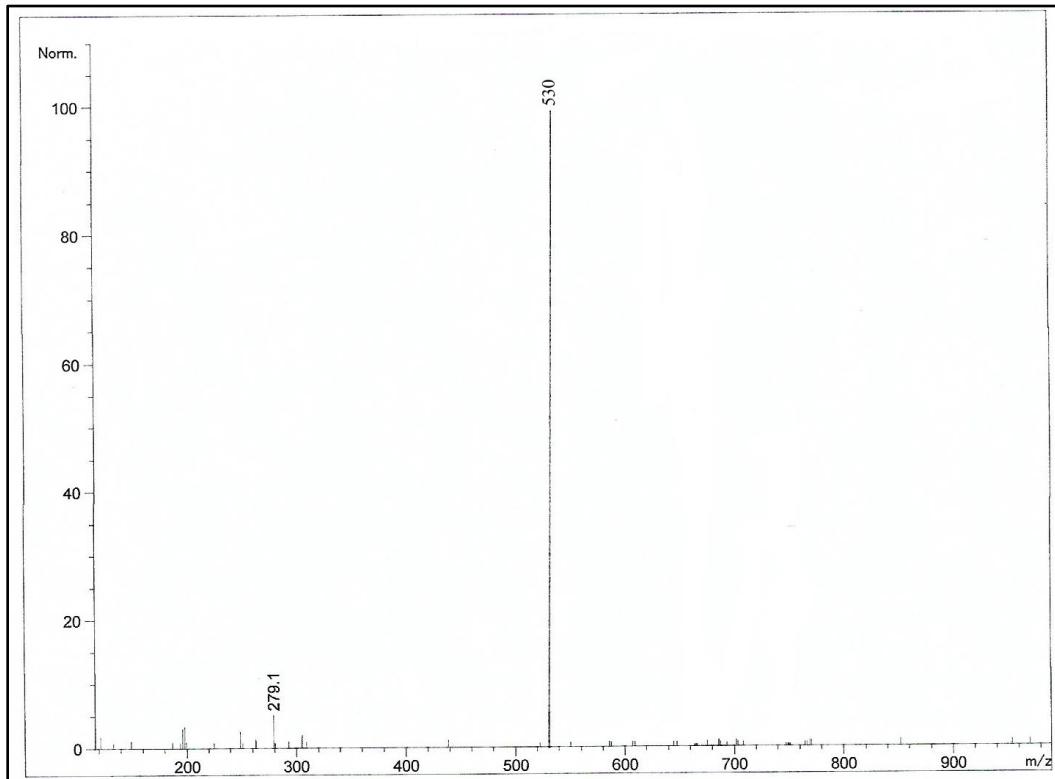


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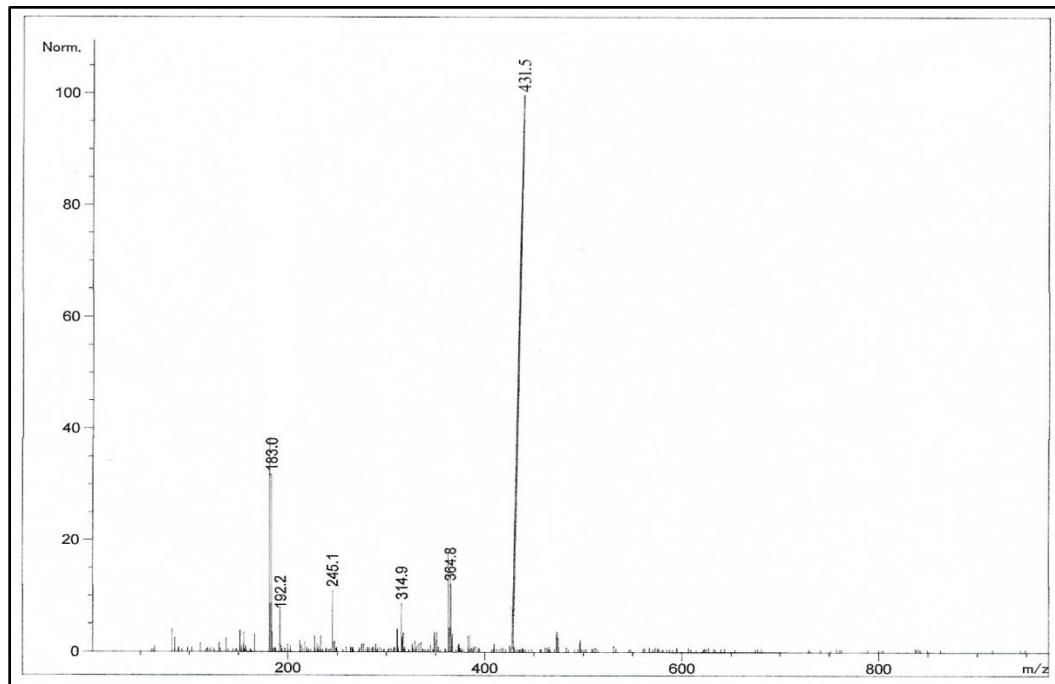
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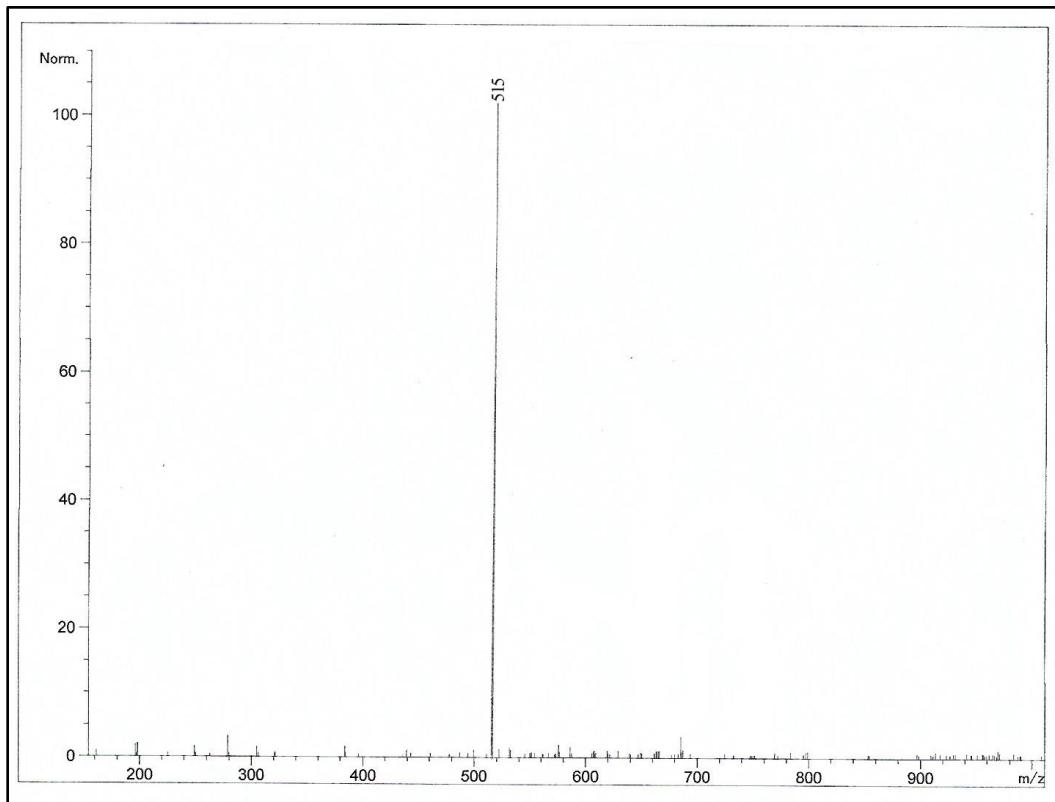
3-(4-Acetoxy-2-hydroxy phenyl)-5-(4-methoxystyryl)-1-phenyl pyrazole



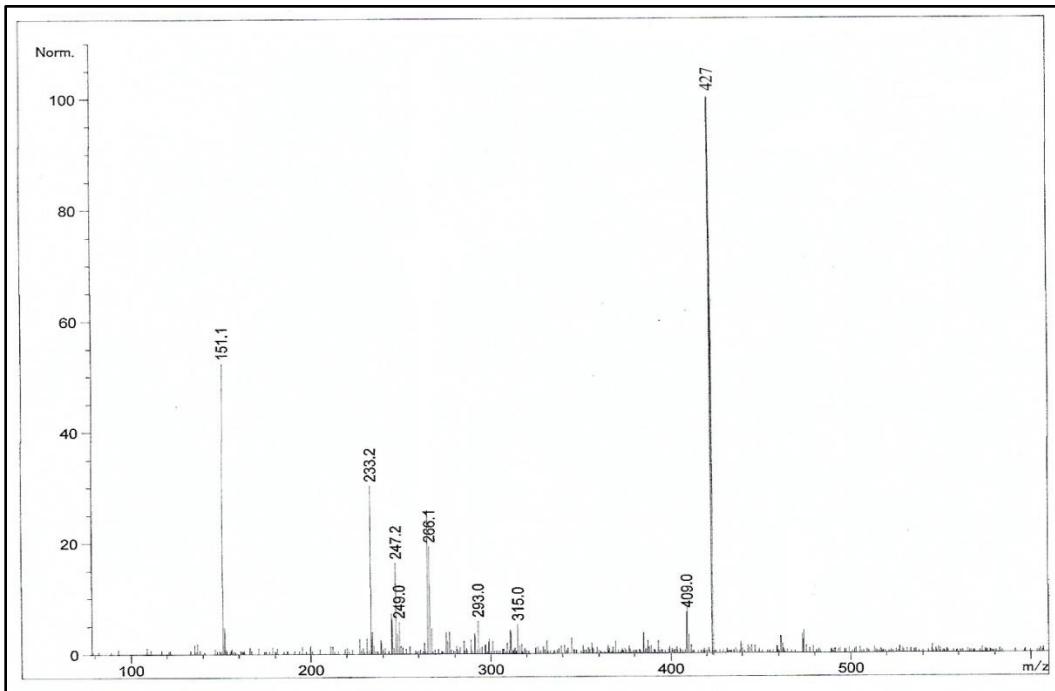
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3-(4-Acetoxy-2-hydroxyphenyl)-5-(4-methoxystyryl)-1-(2, 4-dinitrophenyl) pyrazole



3-(4-Acetoxy-2-hydroxyphenyl)-5-(4-methoxystyryl)-1-phenylpyrazole

Table S1. Analgesic activity by hot-plate method

| Entry No. | Compound | Jumping response (mean ± S.E.M) at | | Activity after | |
|-----------|-------------|------------------------------------|-----------|----------------|--------|
| | | 30 min | 60 min | 30 min | 60 min |
| 1 | Control | 1.5±0.83 | 1.33±0.51 | - | - |
| 2 | pentazocine | 4.4±1.42 | 7.91±0.80 | ns | *** |
| 3 | 11 | 4.1±0.75 | 11.5±1.87 | ns | *** |
| 4 | 12 | 8.5±1.04 | 5.83±1.47 | *** | ** |
| 5 | 13 | 4.8±0.82 | 6.5±2.16 | * | *** |
| 6 | 14 | 8.3±2.08 | 10.0±1.41 | *** | *** |
| 7 | 15 | 5.0±0.83 | 13.8±2.92 | * | *** |
| 8 | 16 | 6.7±0.95 | 11.0±1.41 | *** | *** |
| 9 | 17 | 8.5±3.10 | 12.0±2.36 | *** | *** |
| 10 | 18 | 6.8±1.94 | 12.6±2.25 | *** | *** |
| 11 | 19 | 10±2.70 | 12.5±1.87 | *** | *** |

Note: *= $P<0.05$, **= $P<0.01$, ***= $P<0.001$ as compared to control, as per one way analysis of variance (ANOVA) followed by Dunnett's multiple comparison test.

Table S2. Anti-inflammatory activity by carrageenan-induced method

| S. N | Compound | Paw edema (mean ± S.E.M) at | | % of inhibition after | |
|------|---------------|-----------------------------|-----------|-----------------------|--------|
| | | 30 min | 60 min | 30 min | 60 min |
| 1 | Control | 4.98±0.20 | 5.01±0.26 | - | - |
| 2 | Indo-methacin | 3.51±0.27 | 2.18±0.17 | 29.5 | 56.4 |
| 3 | 11 | 4.45±0.32 | 2.73±0.30 | 10.6 | 45.5 |
| 4 | 12 | 4.33±1.17 | 2.65±0.32 | 13.0 | 47.1 |
| 5 | 13 | 4.41±0.24 | 3.11±0.66 | 11.4 | 37.9 |
| 6 | 14 | 4.85±1.17 | 3.55±0.50 | 2.6 | 29.1 |
| 7 | 15 | 4.33±0.05 | 3.32±0.27 | 13.0 | 33.7 |
| 8 | 16 | 4.41±0.24 | 2.35±0.18 | 11.4 | 53.0 |
| 9 | 17 | 4.85±0.16 | 2.25±0.44 | 2.6 | 55.0 |
| 10 | 18 | 4.76±0.16 | 3.38±0.33 | 4.4 | 32.5 |
| 11 | 19 | 4.80±0.10 | 3.36±0.22 | 3.6 | 32.9 |