

# Spektri masa i NMR spektri (1H i 13C) sintetiziranih kumarina, rodanina i tiazolidindiona

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## Supplement / Prilog

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**SVEUČILIŠTE JOSIPA JURJA STROSSMAYERA U OSIJEKU  
PREHRAMBENO-TEHNOLOŠKI FAKULTET OSIJEK**

**Melita Lončarić**

**INHIBICIJA LIPOOKSIGENAZE DERIVATIMA KUMARINA, RODANINA I  
TIAZOLIDINDIONA**

DOKTORSKA DISERTACIJA

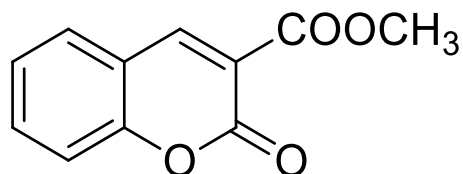
Osijek, ožujak, 2022.

**Prilog 1** Spektri masa i NMR spektri ( $^1\text{H}$  i  $^{13}\text{C}$ ) sintetiziranih kumarina, rodanina i tiazolidindiona.

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metil 2-okso-2H-kromen-3-karboksilat (1a)

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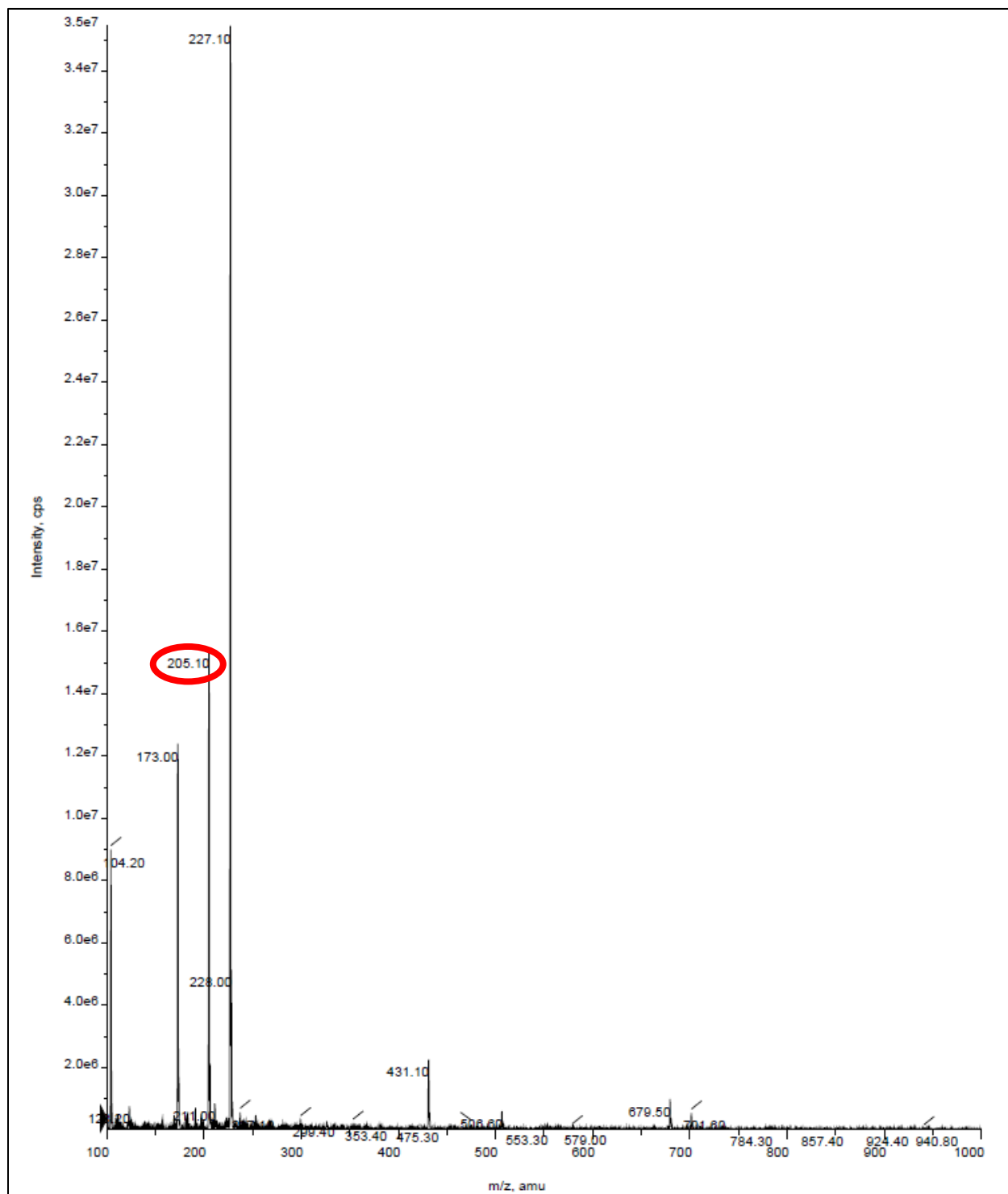


<b>Reaktanti</b>	Salicilaldehid (10 mmol) i dimetilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	204,18 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>8</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	102 – 105 °C (lit. 119 – 120 °C, Saeed i sur., 2012)
<b>Boja kristala</b>	Svijetložuta
<b>R<sub>f</sub></b>	0,76
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	205,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,73 (s, 1H), 7,84 (d, <i>J</i> = 8,40 Hz, 1H, arom.), 7,01 (d, <i>J</i> = 13,20 Hz, 2H, arom.), 3,90 (s, 3H, -OCH <sub>3</sub> ), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 164,8; 163,4; 157,11; 156,2; 149,4; 131,6; 113,2; 111,4; 100,3; 56,2; 52,1.

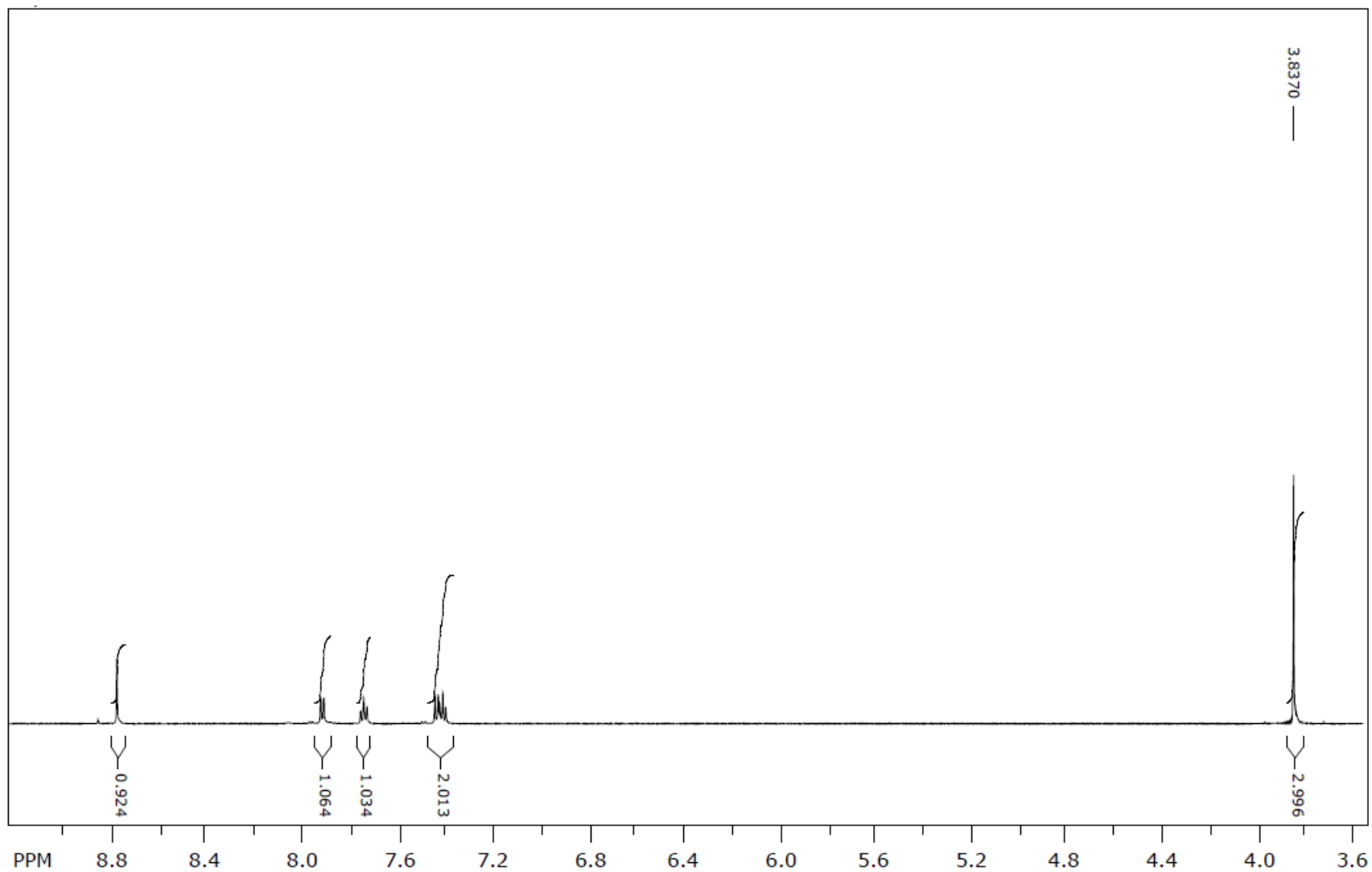
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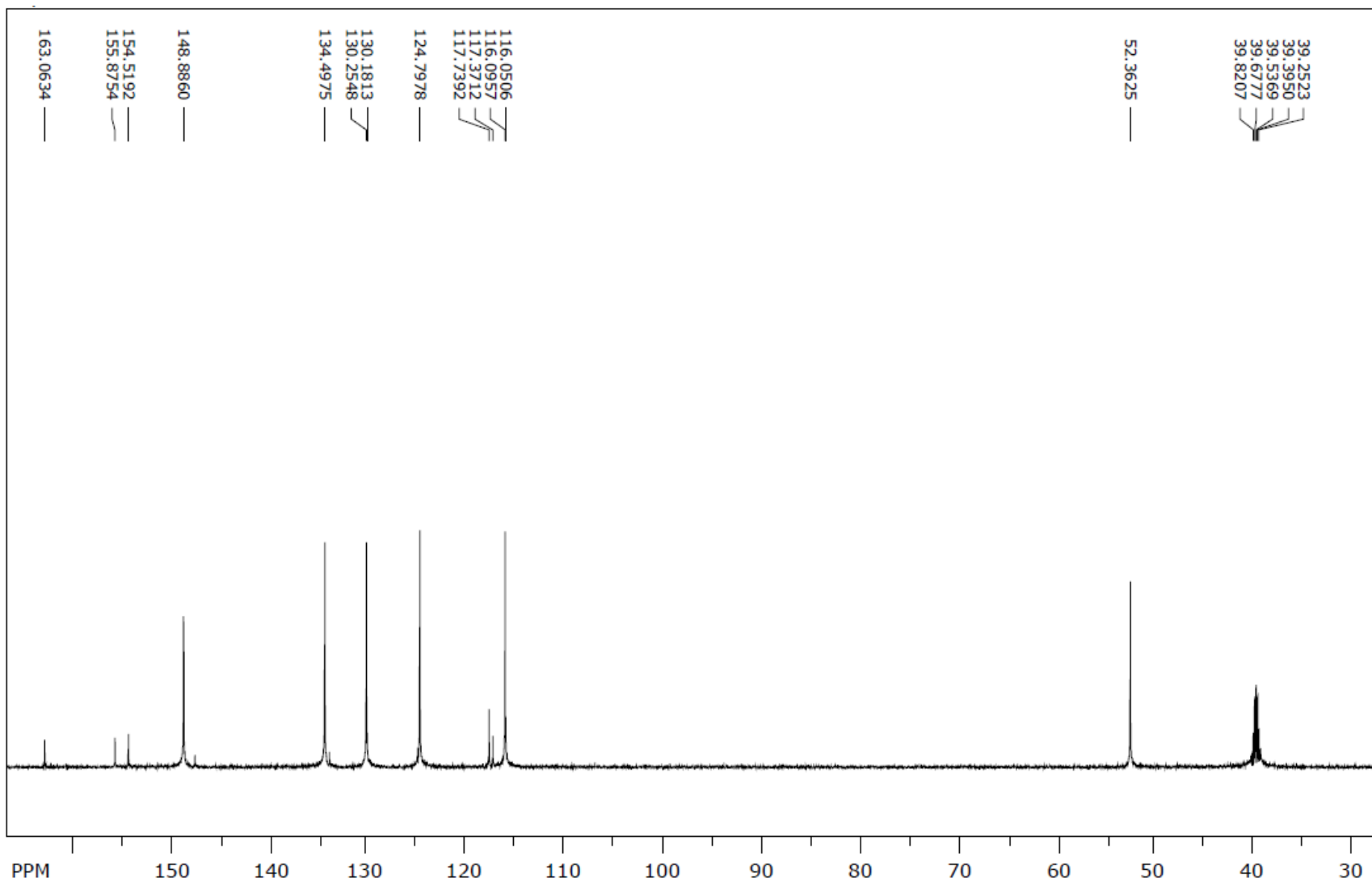
# Maseni spektr (1a)



**<sup>1</sup>H NMR spektr (1a)**



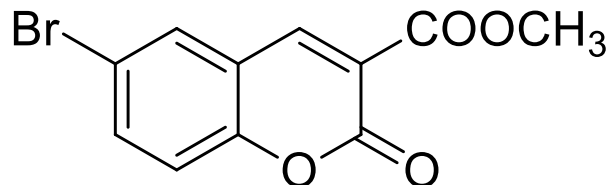
# <sup>13</sup>C NMR spektr (1a)



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**metil 6-brom-2-okso-2H-kromen-3-karboksilat (1b)**

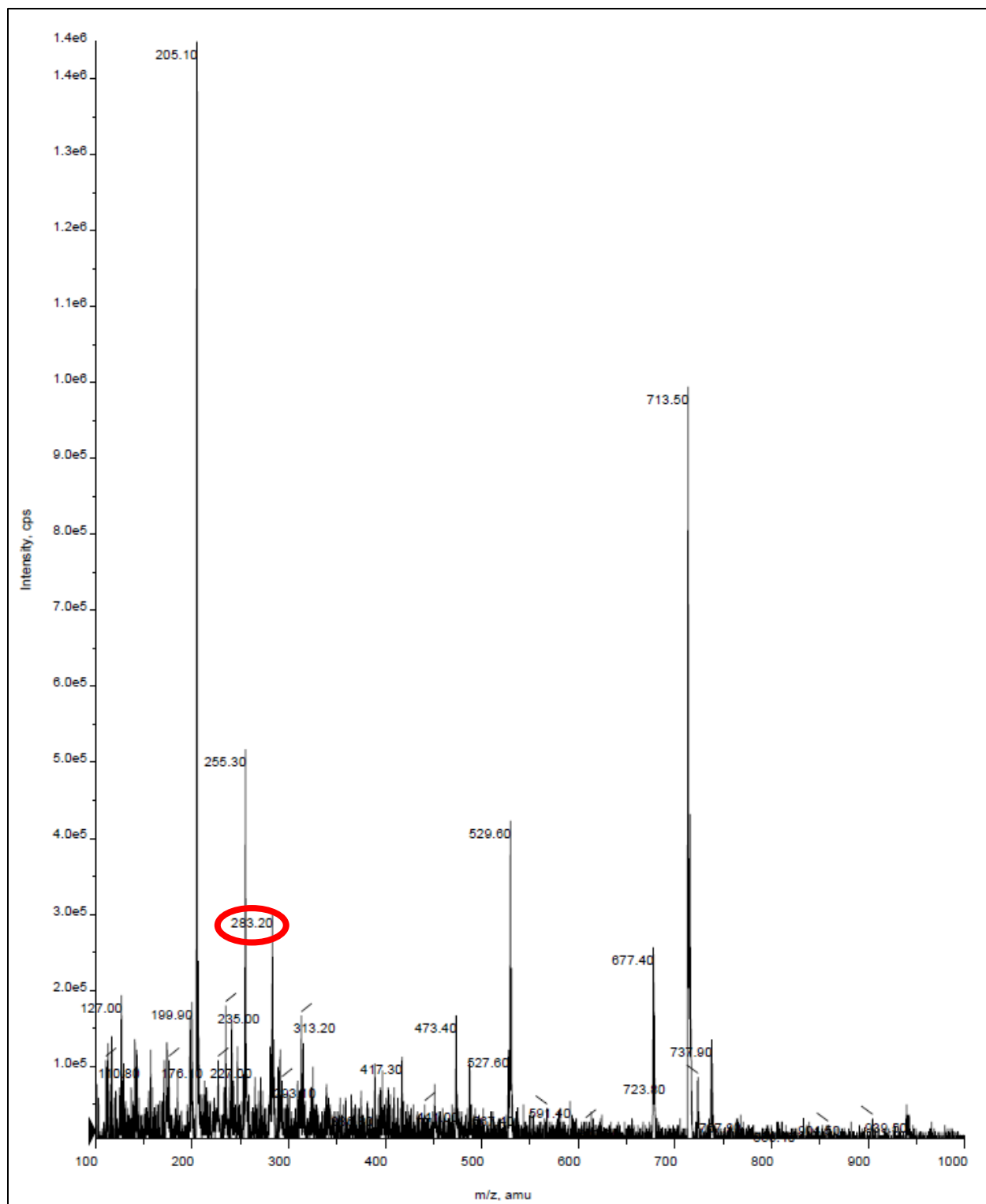
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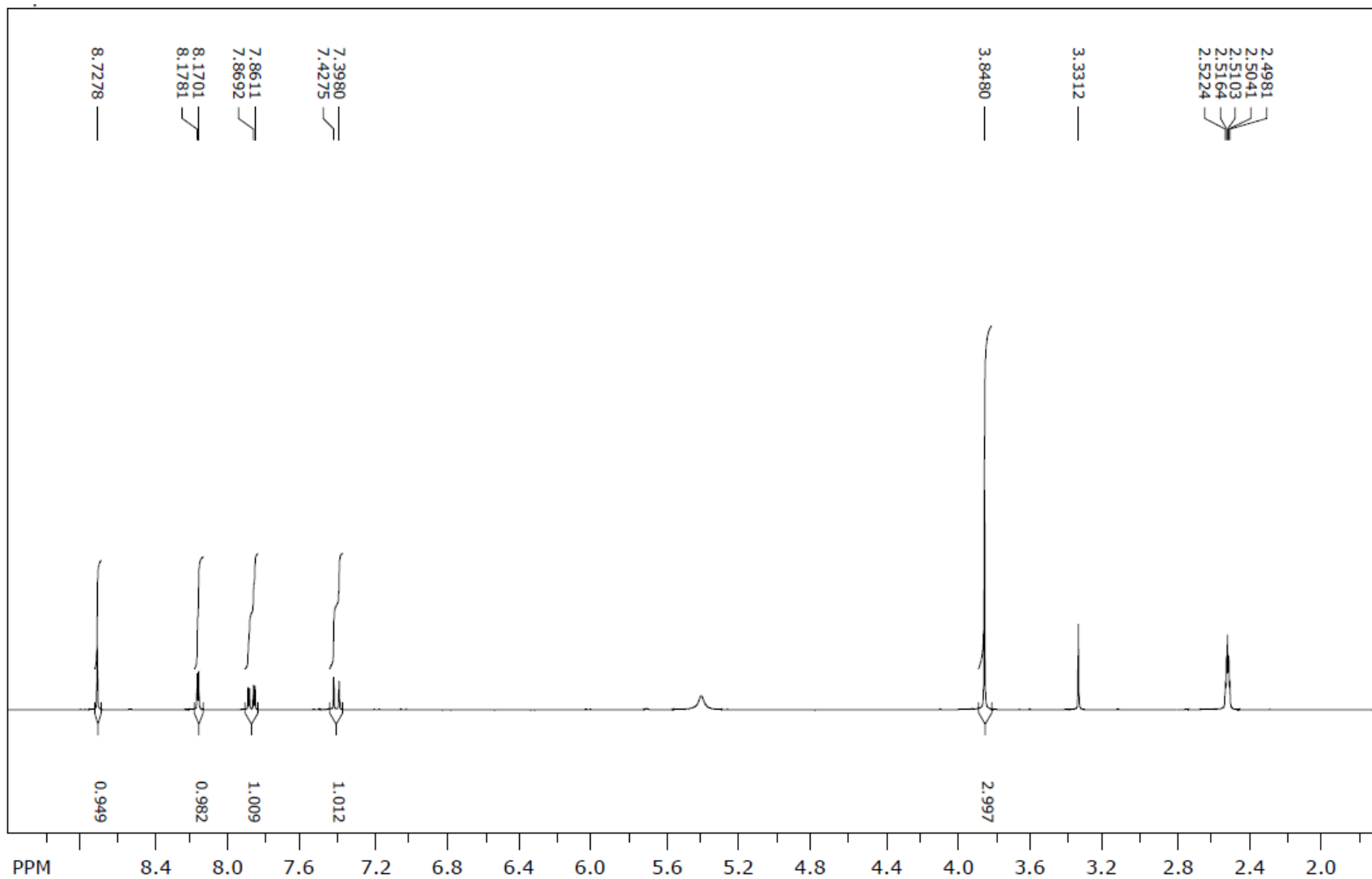
<b>Reaktanti</b>	5-bromosalicilaldehid (10 mmol) i dimetilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	283,07 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>7</sub> BrO <sub>4</sub>
<b>Temperatura tališta</b>	180 – 185 °C (lit. 180 – 182 °C, Keshavarzipour i Tavakol, 2016)
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,74
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	283,20
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,73 (s, 1H, arom.), 8,17 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 7,87 (dd, <i>J</i> = 8,88, 2,45 Hz, 1H, arom.), 7,41 (d, <i>J</i> = 8,85 Hz, 1H, arom.), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 163,3; 154,0; 148,1; 137,1; 132,6; 120,1; 119,1; 116,7; 53,0.

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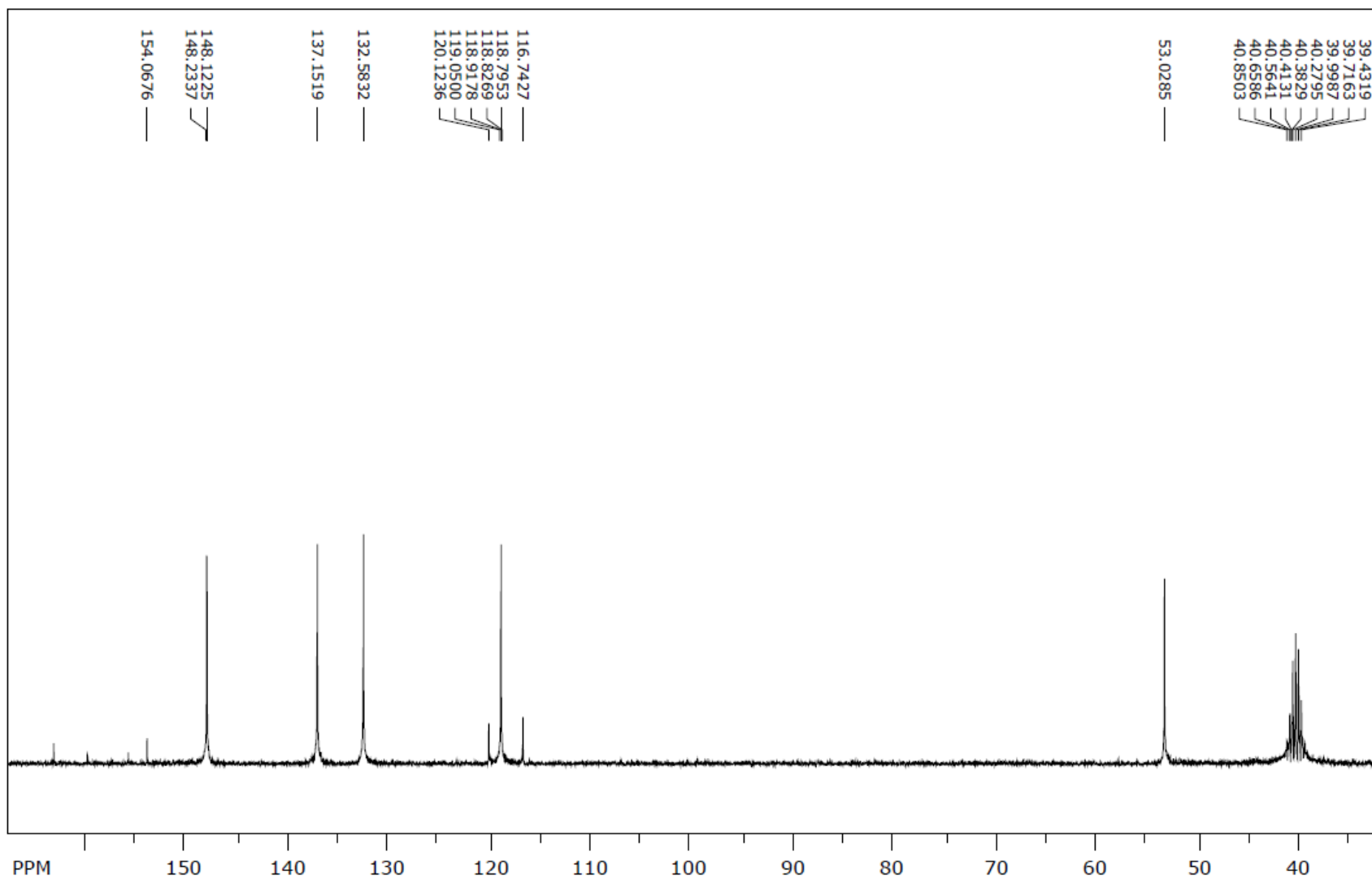
# Maseni spektar (1b)



# <sup>1</sup>H NMR spektr (1b)



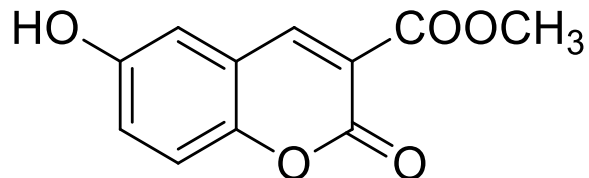
# <sup>13</sup>C NMR spektr (1b)



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metil 6-hidroksi-2-okso-2*H*-kromen-3-karboksilat (1c)

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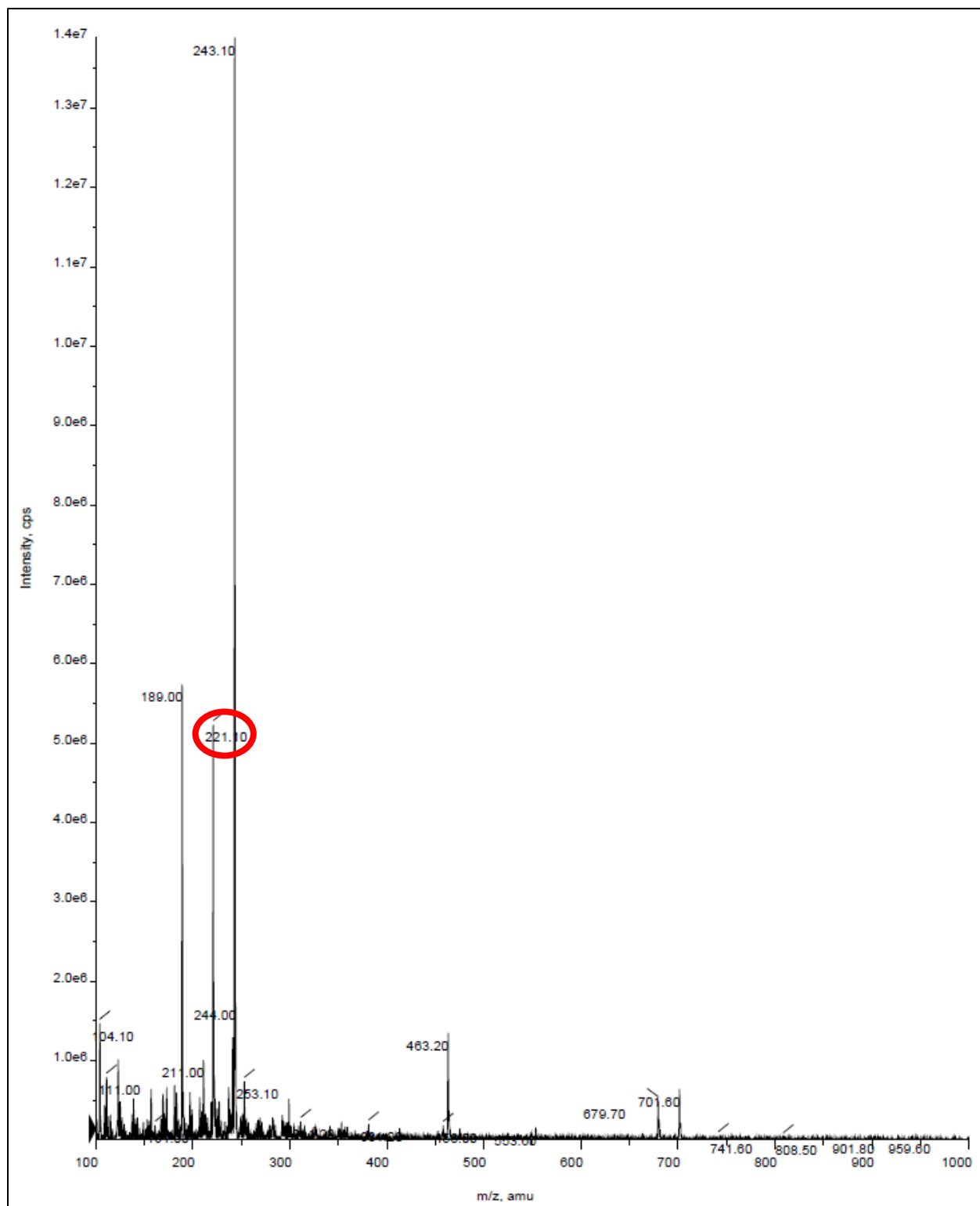


<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (10 mmol) i dimetilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	C <sub>11</sub> H <sub>8</sub> O <sub>5</sub>
<b>Molekulska formula</b>	220,18 g/mol
<b>Temperatura tališta</b>	185 – 190 °C (lit. 195 – 196 °C, Bisht i sur., 2017)
<b>Boja kristala</b>	Tamnocrvena
<b>R<sub>f</sub></b>	0,29
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	221,10
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,94 (s, 1H, OH), 8,69 (s, 1H, coum.), 7,29 (d, <i>J</i> = 8,82 Hz, 1H, arom.), 7,15 - 7,22 (m, 2H, arom.), 3,83 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 163,8; 156,7; 154,4; 149,2; 148,4; 123,1; 118,7; 117,8; 117,5; 114,4; 52,8.

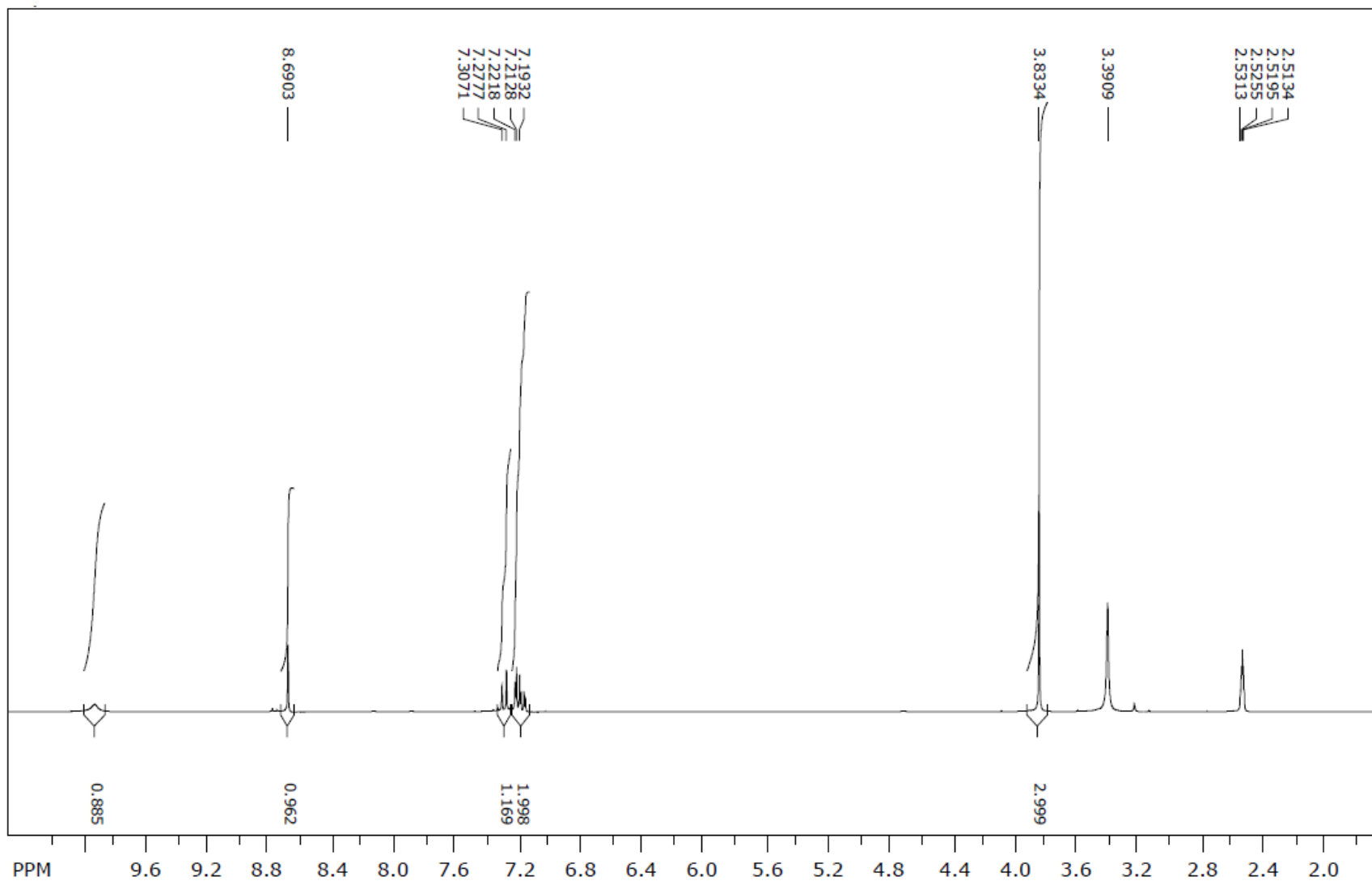
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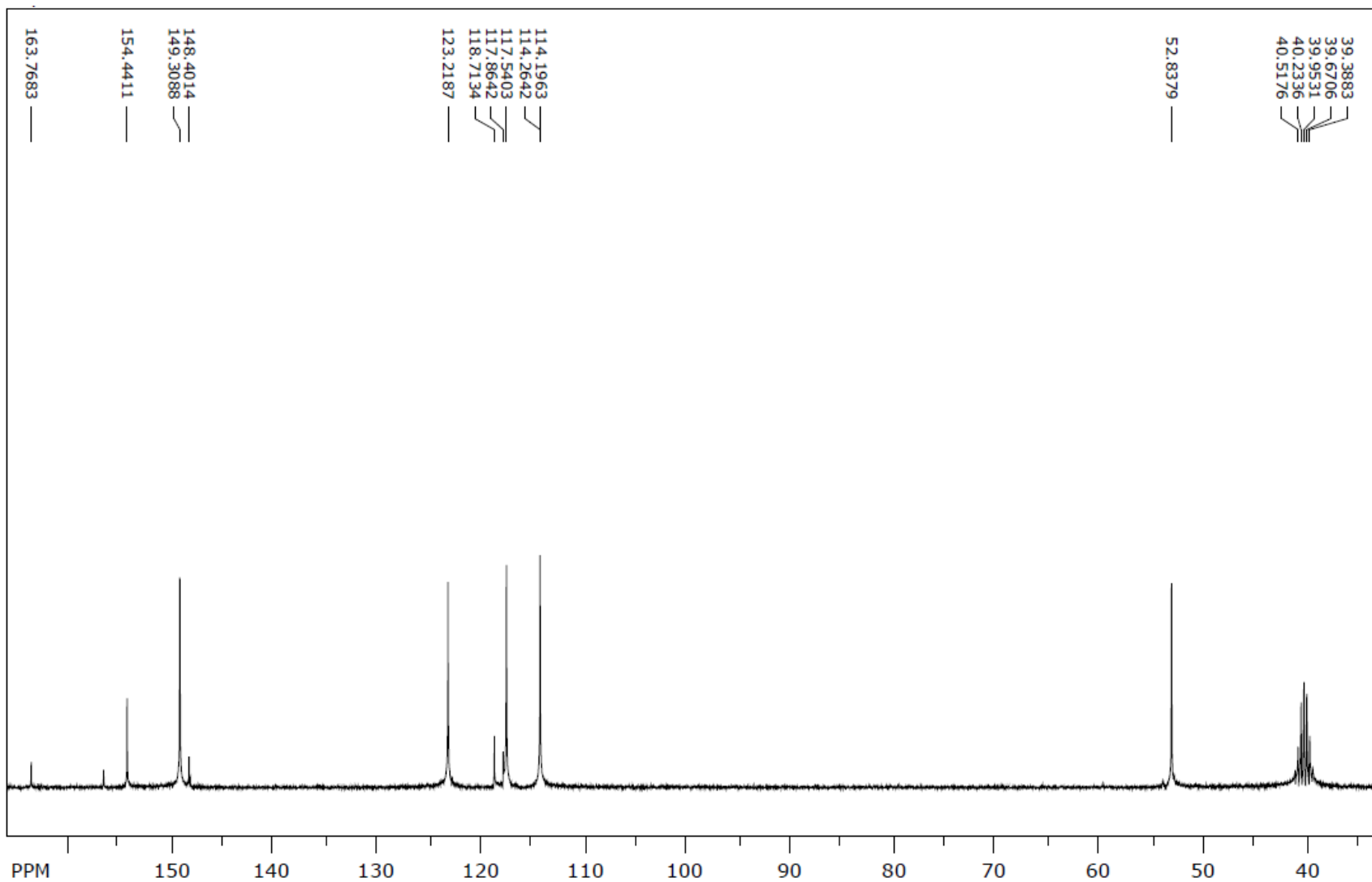
# Maseni spektr (1c)



**<sup>1</sup>H NMR spektr (1c)**



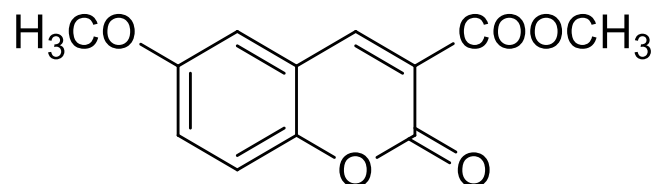
# <sup>13</sup>C NMR spektr (1c)



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metil 6-metoksi-2-okso-2H-kromen-3-karboksilat (1d)

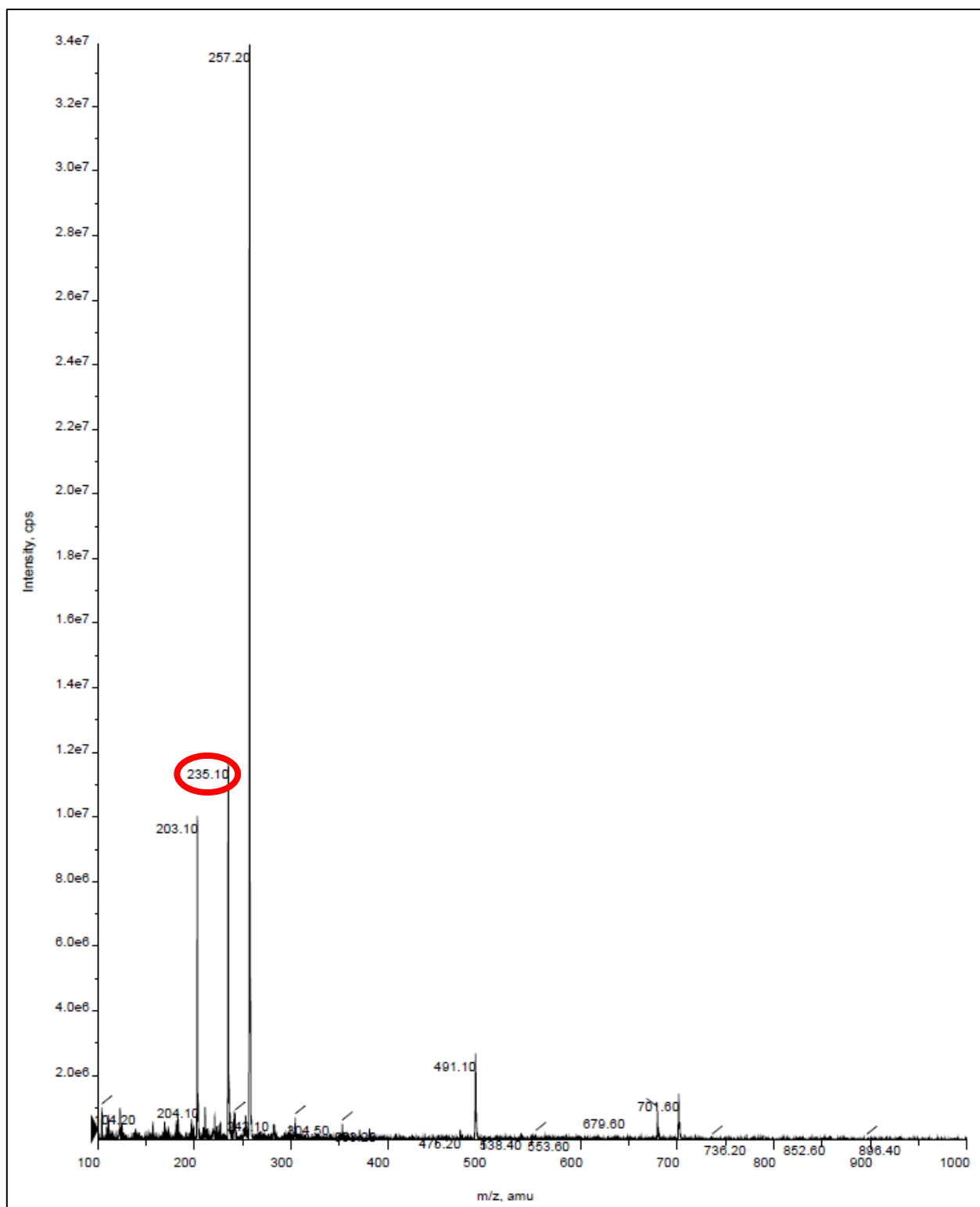
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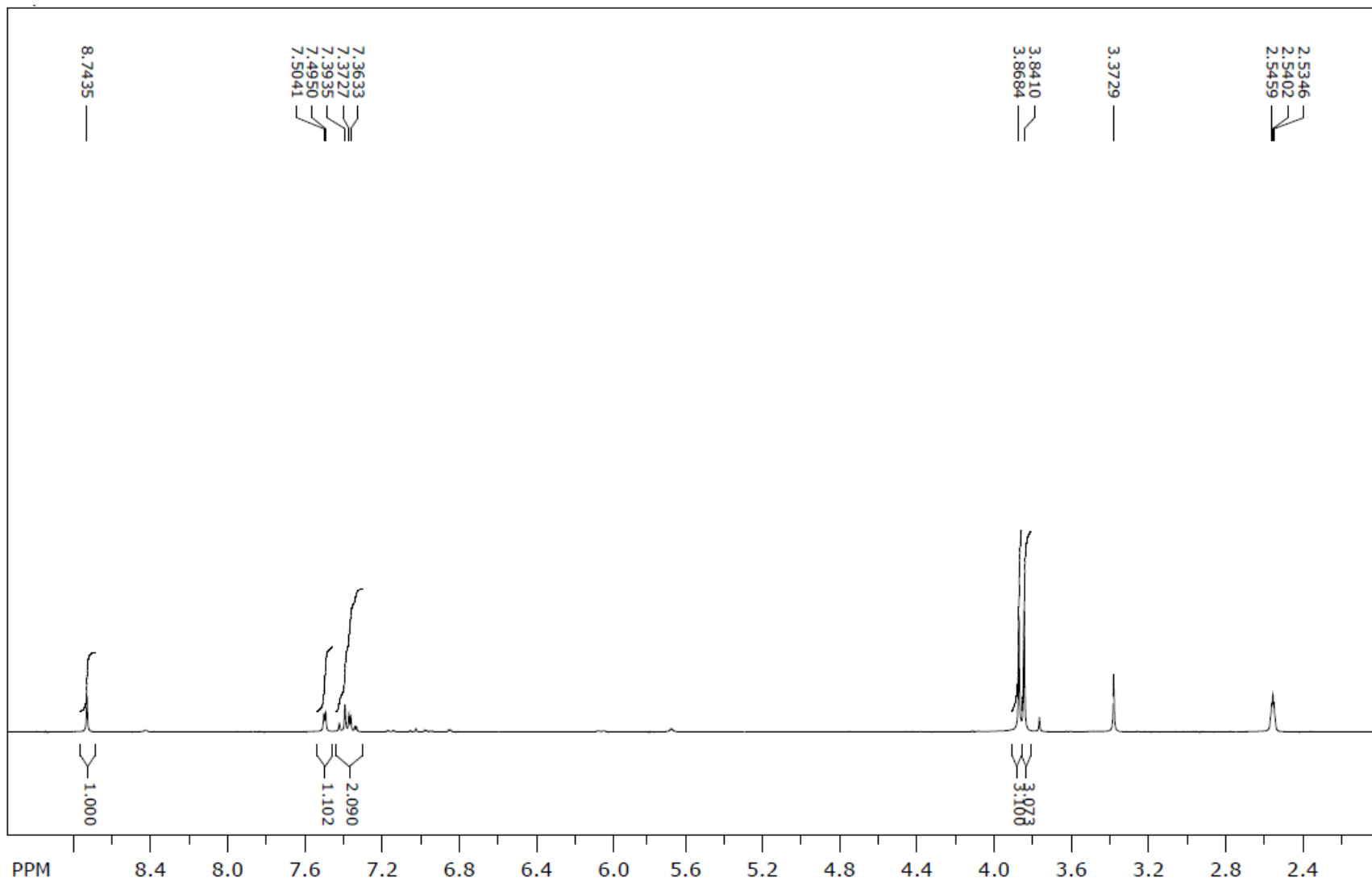
<b>Reaktanti</b>	5-metoksisalicilaldehid (3,2 mmol) i dimetilmalonat (3,2 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	234,20 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>10</sub> O <sub>5</sub>
<b>Temperatura tališta</b>	155 -157 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,66
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	235,10
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,74 (s, 1H, coum.), 7,50 (s, 1H, arom.), 7,36 - 7,40 (m, 2H, arom.), 3,87 (s, 3H, OCH <sub>3</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, CDCl <sub>3</sub> ) δ 163,6; 156,2; 149,2; 122,9; 118,6; 118,0; 117,7; 112,4; 111,4; 56,2; 52,9.

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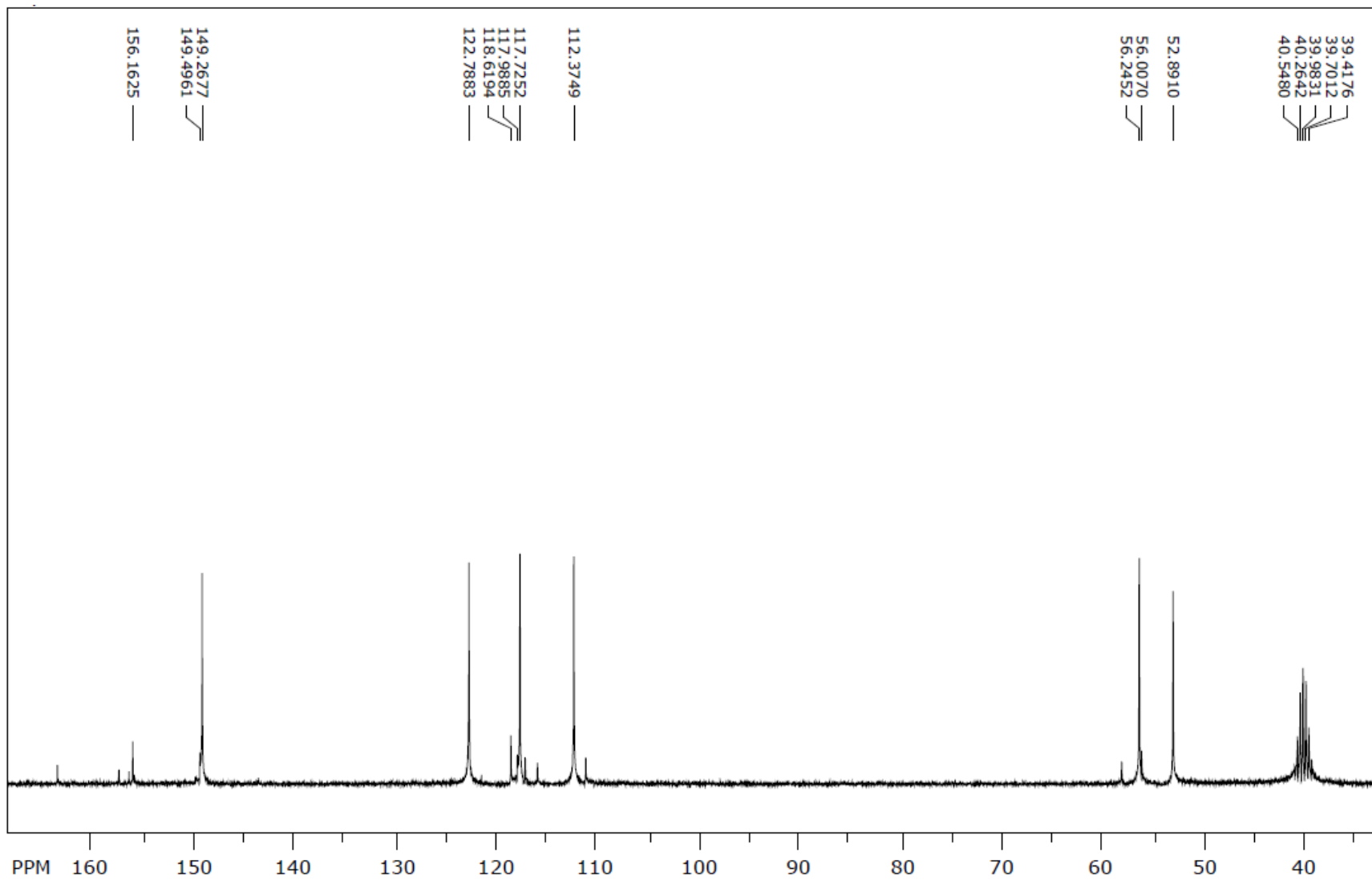
# Maseni spektar (1d)



<sup>1</sup>H NMR spektr (1d)



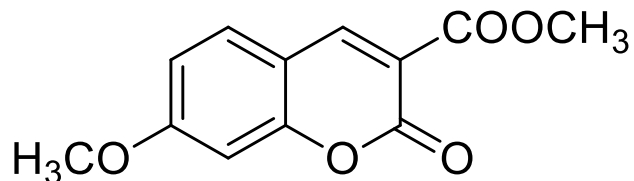
**<sup>13</sup>C NMR spektr (1d)**



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metil 7-metoksi-2-okso-2H-kromen-3-karboksilat (1e)

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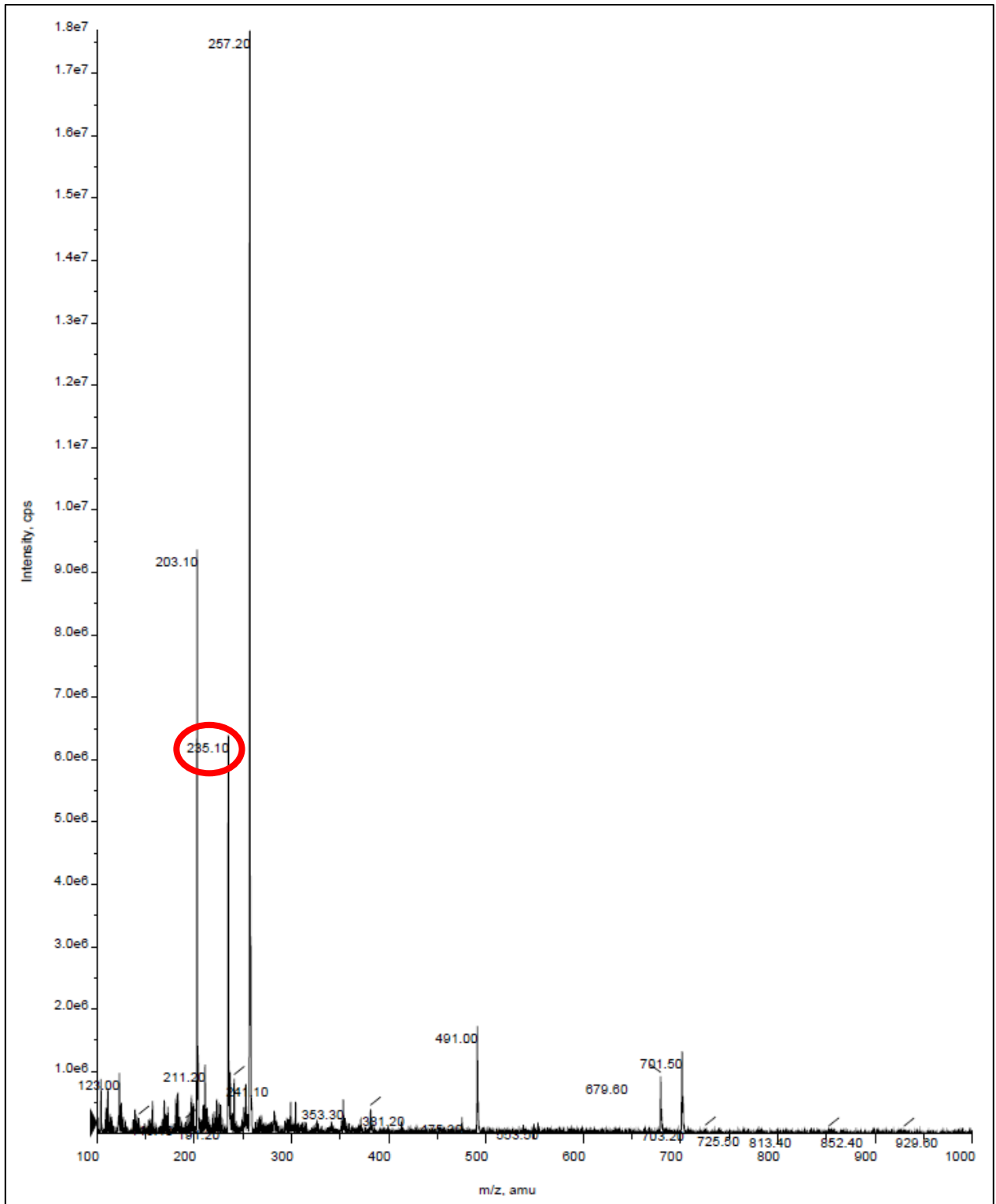
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<b>Reaktanti</b>	4-metoksisalicilaldehid (3,3 mmol) i dimetilmalonat (3,3 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	234,20 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>10</sub> O <sub>5</sub>
<b>Temperatura tališta</b>	200 – 202 °C (lit. 201 – 203 °C, Shaabani i sur., 2009)
<b>Boja kristala</b>	Tamnožuta
<b>R<sub>f</sub></b>	0,64
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	235,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,73 (s, 1H), 7,84 (d, <i>J</i> = 8,40 Hz, 1H, arom.), 7,01 (d, <i>J</i> = 13,20 Hz, 2H, arom.), 3,90 (s, 3H, -OCH <sub>3</sub> ), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 164,8; 163,4; 157,11; 156,2; 149,4; 131,6; 113,2; 111,4; 100,3; 56,2; 52,1.

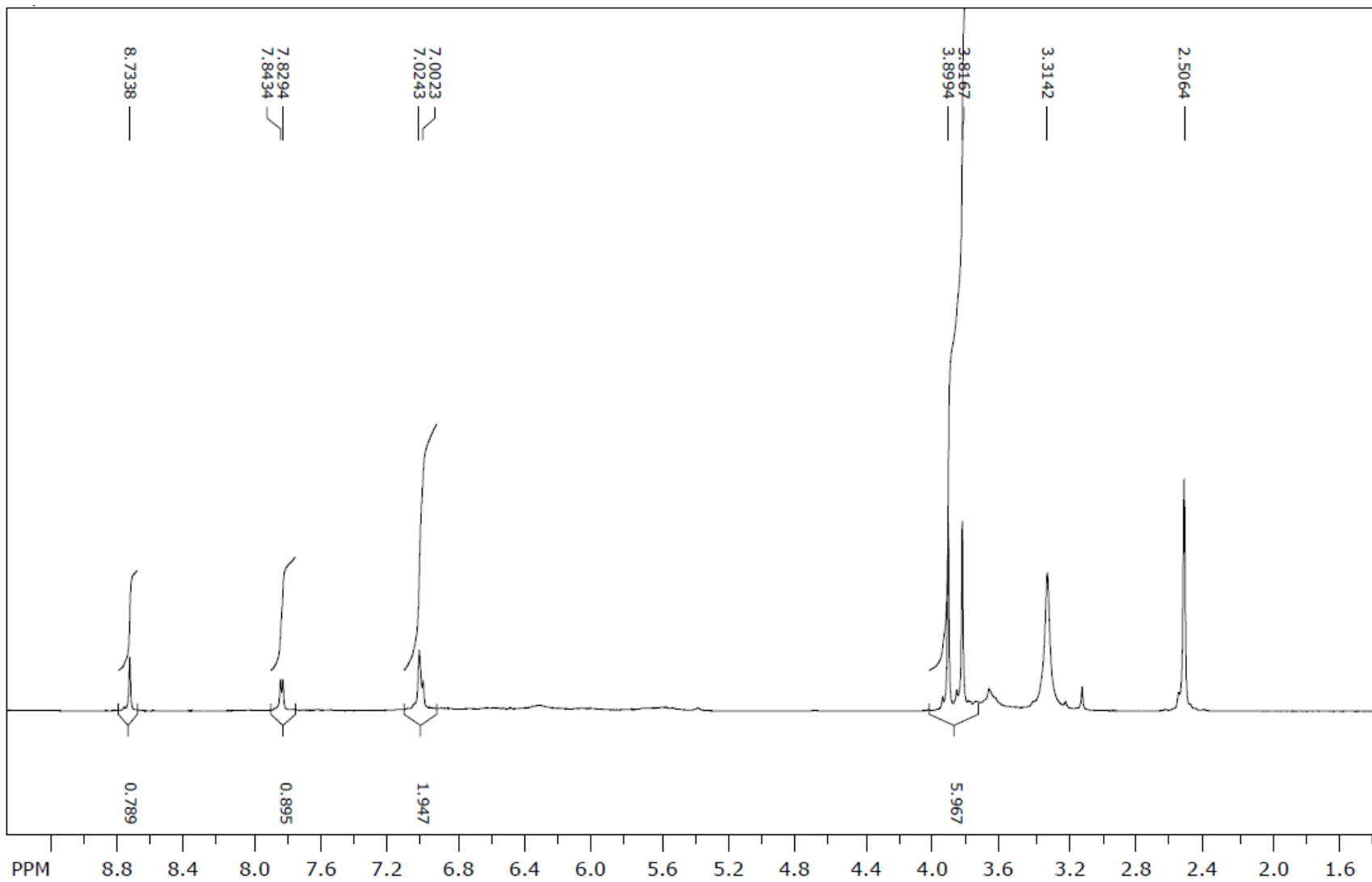
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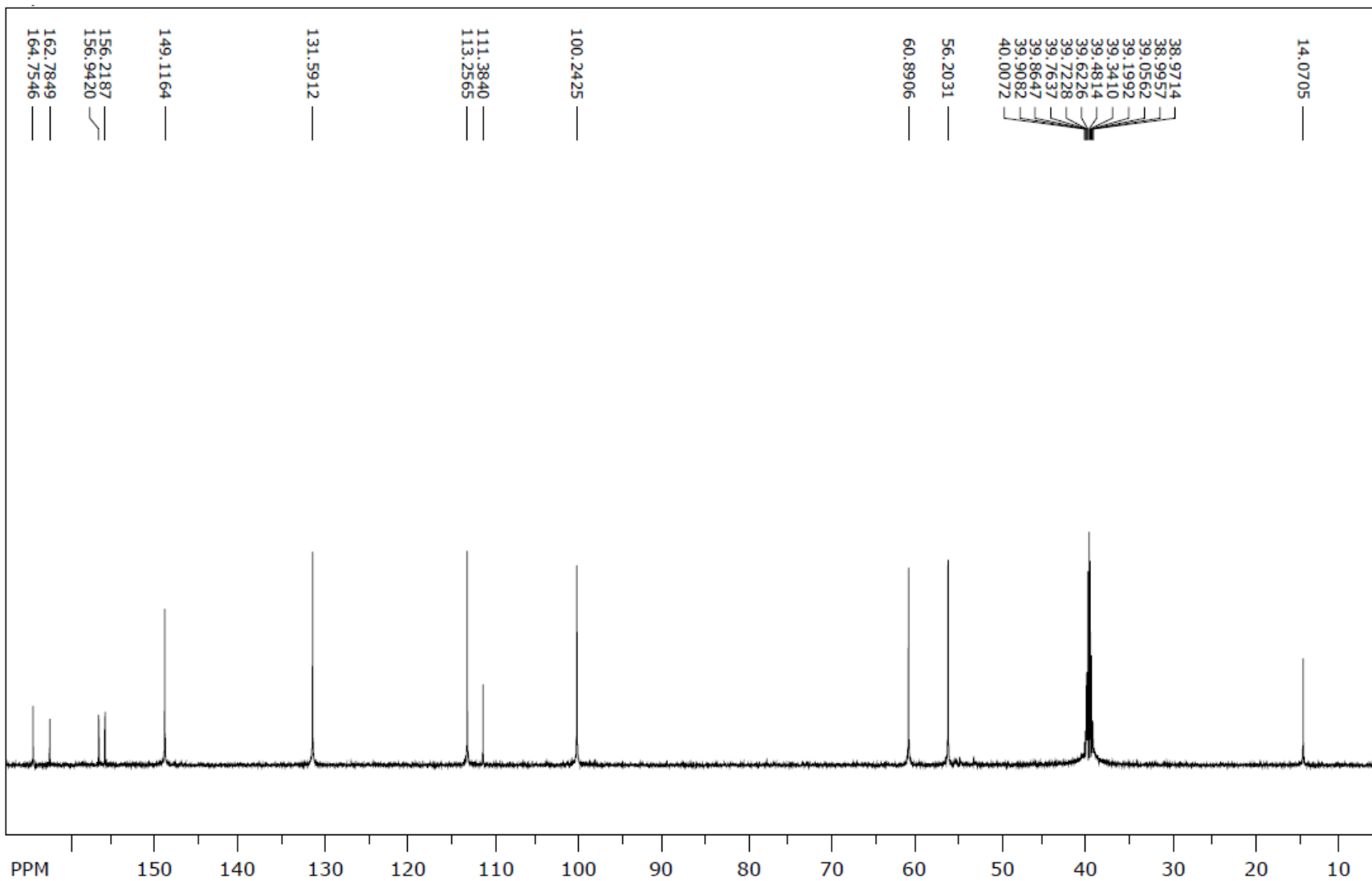
# Maseni spektar (1e)



**<sup>1</sup>H NMR spektr (1e)**



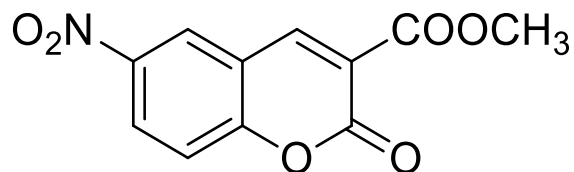
**<sup>13</sup>C NMR spektr (1e)**



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metil 6-nitro-2-okso-2H-kromen-3-karboksilat (1f)

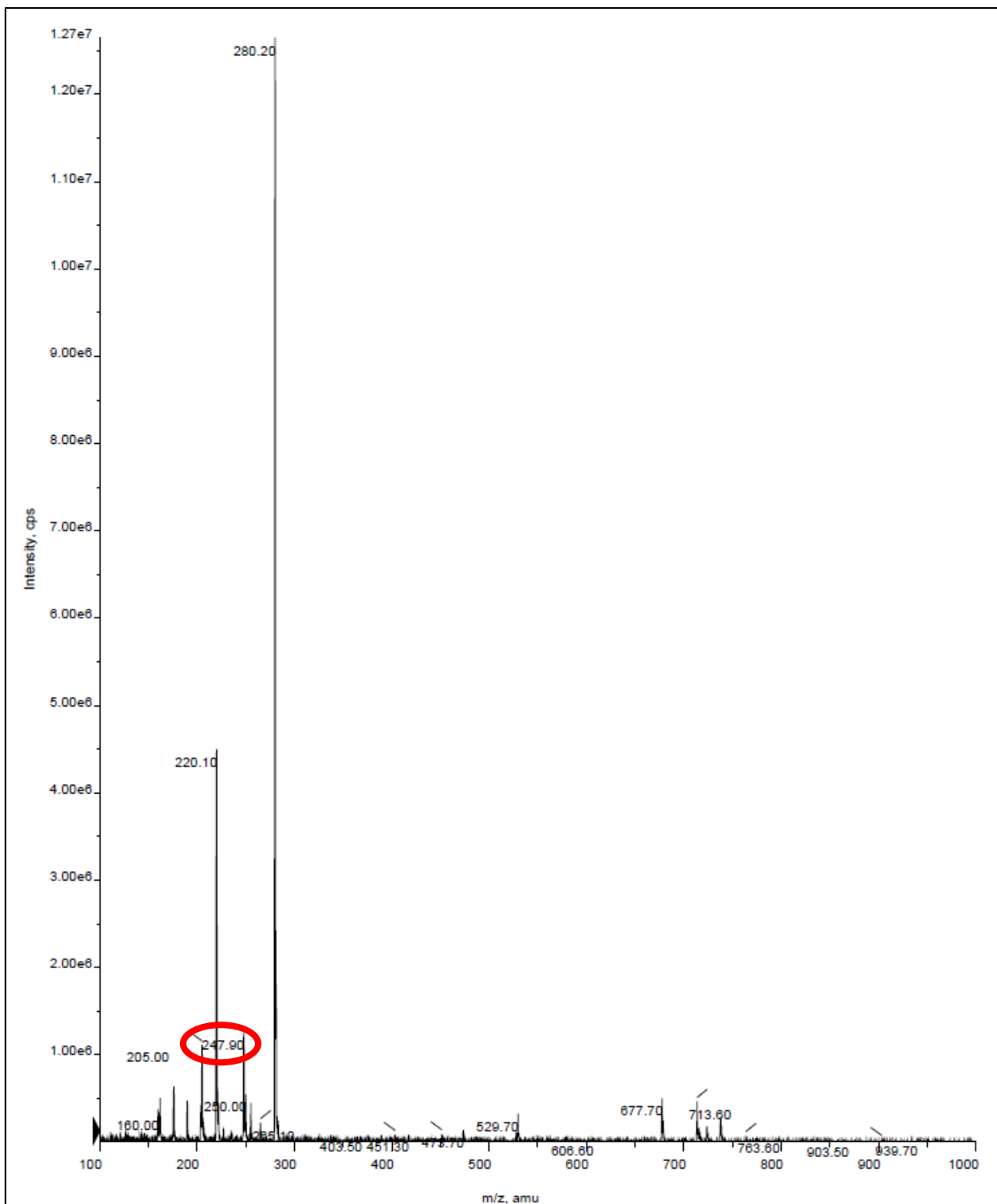
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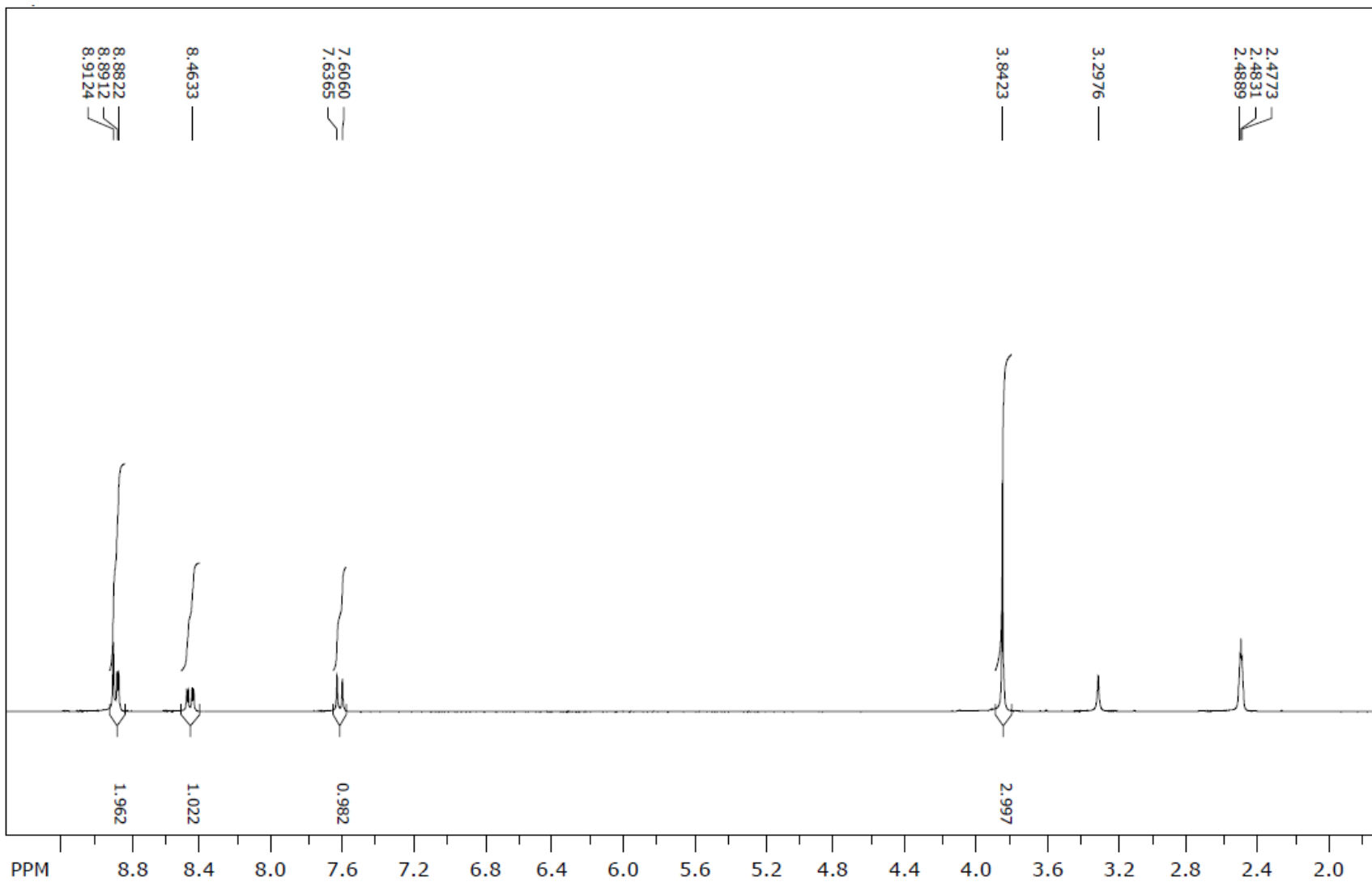
<b>Reaktanti</b>	5-nitrosalicilaldehid (3,1 mmol) i dimetilmalonat (3,1 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	249,17 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>7</sub> NO <sub>6</sub>
<b>Temperatura tališta</b>	210 – 213 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,78
<b>LC/MS/MS m/z (M-)</b>	247,90
<b>1H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,91 (s, 1H, coum.), 8,89 (d, <i>J</i> = 2,70 Hz, 1H, arom.), 8,47 (dd, <i>J</i> = 9,12, 2,76 Hz, 1H, arom.), 7,62 (d, <i>J</i> = 9,15 Hz, 1H, arom.), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b>13C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 163,1; 158,5; 155,4; 148,4; 144,1; 129,1; 126,6; 119,7; 118,6; 118,2; 53,2.

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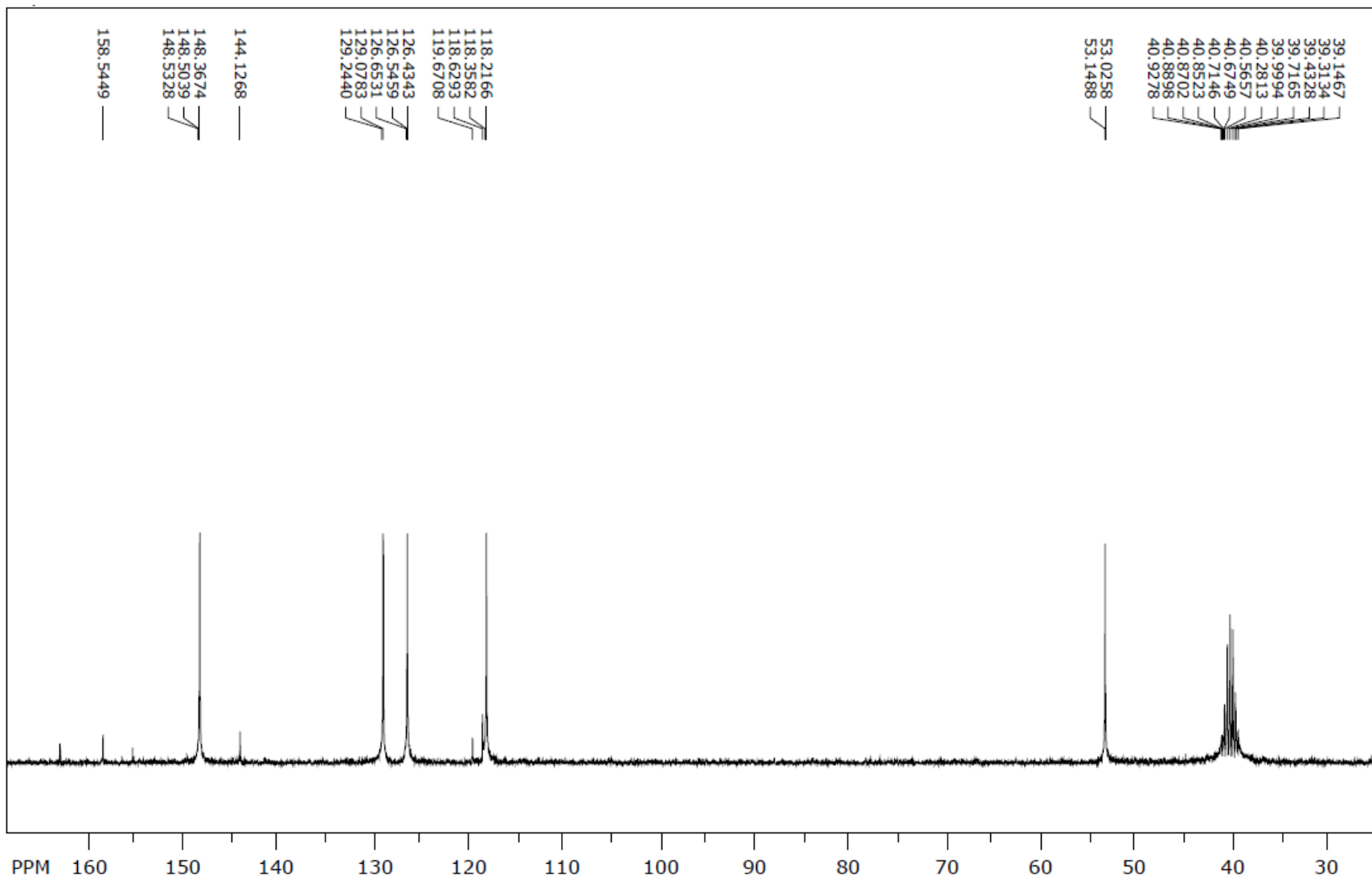
# Maseni spektar (1f)



**<sup>1</sup>H NMR spektr (1f)**



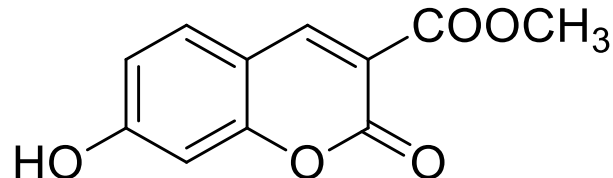
**<sup>13</sup>C NMR spektr (1f)**



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metil 7-hidroksi-2-okso-2H-kromen-3-karboksilat (1g)

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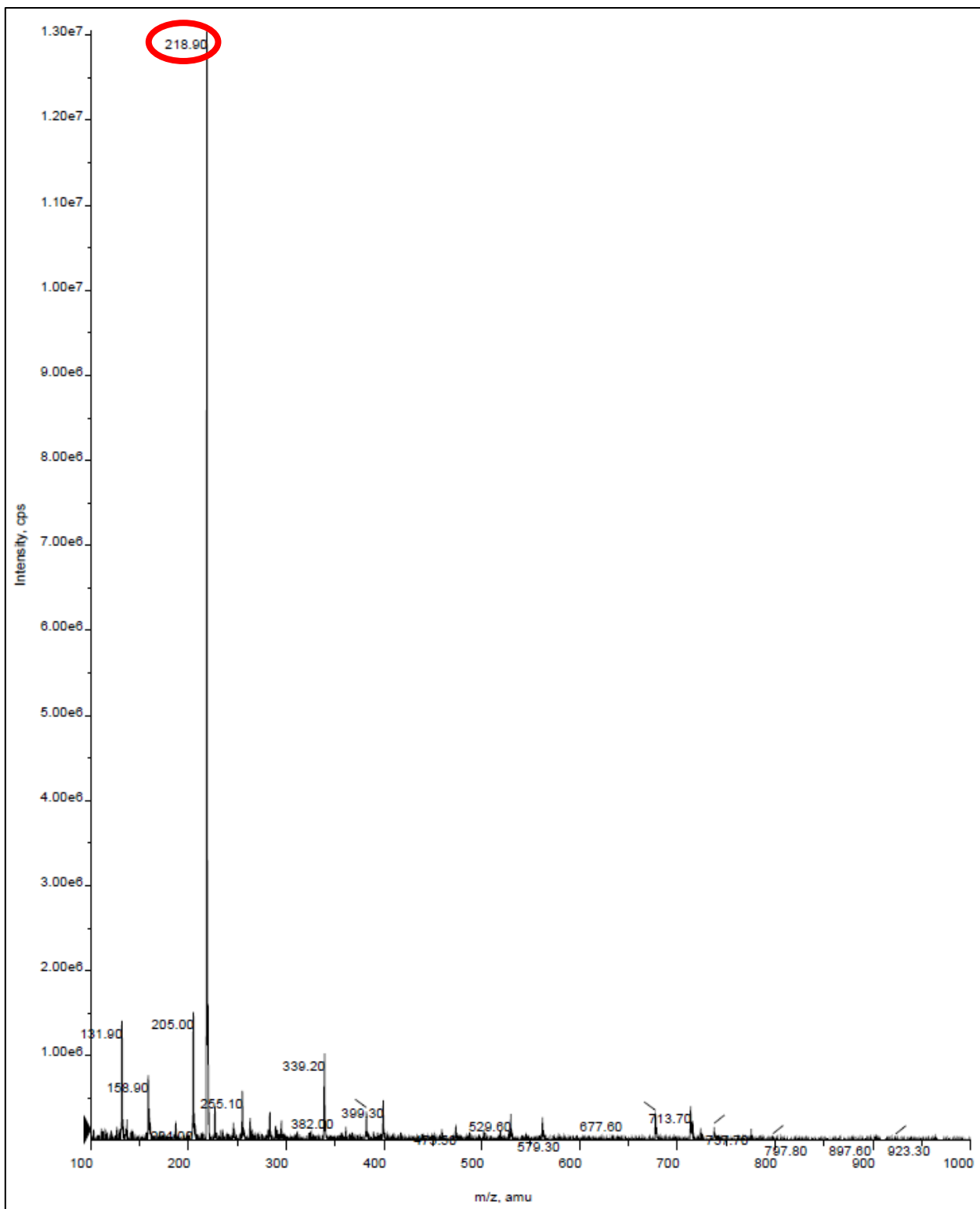


<b>Reaktanti</b>	2,4-dihidroksibenzaldehid (10 mmol) i dimetilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	220,18 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>8</sub> O <sub>5</sub>
<b>Temperatura tališta</b>	>300 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,33
<b>LC/MS/MS m/z (M-)</b>	218,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,68 (s, 1H, OH), 7,74 (d, <i>J</i> = 17,28 Hz, 1H, arom.), 6,82 (dd, <i>J</i> = 17,16, 4,41 Hz, 1H, arom.), 6,70 (d, <i>J</i> = 4,20 Hz, 1H, arom.), 5,40 (s, 1H, arom.), 3,79 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 165,17; 164,01; 157,73; 156,91; 150,17; 132,62; 114,74; 111,78; 110,71; 102,29; 55,61.

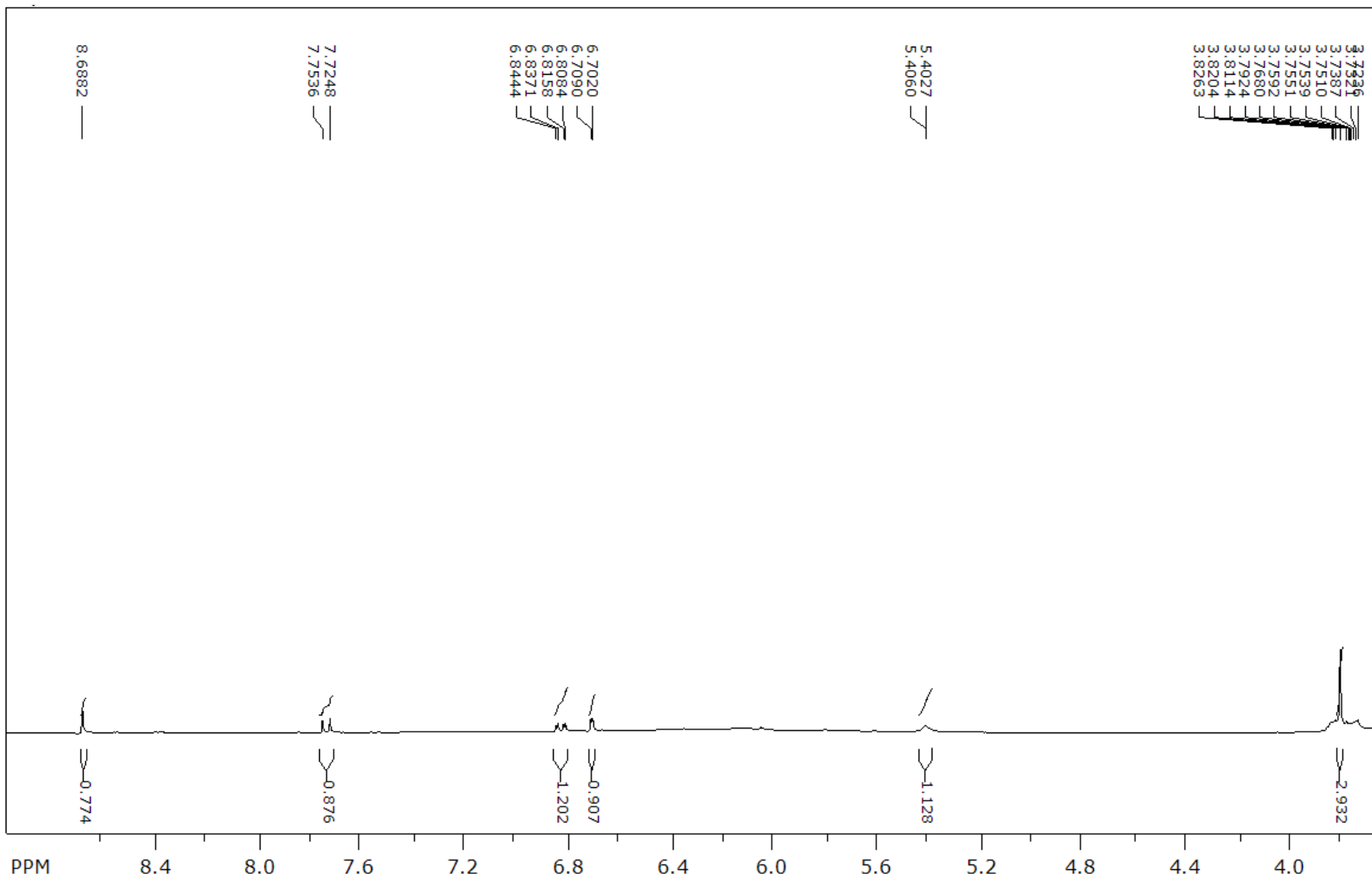
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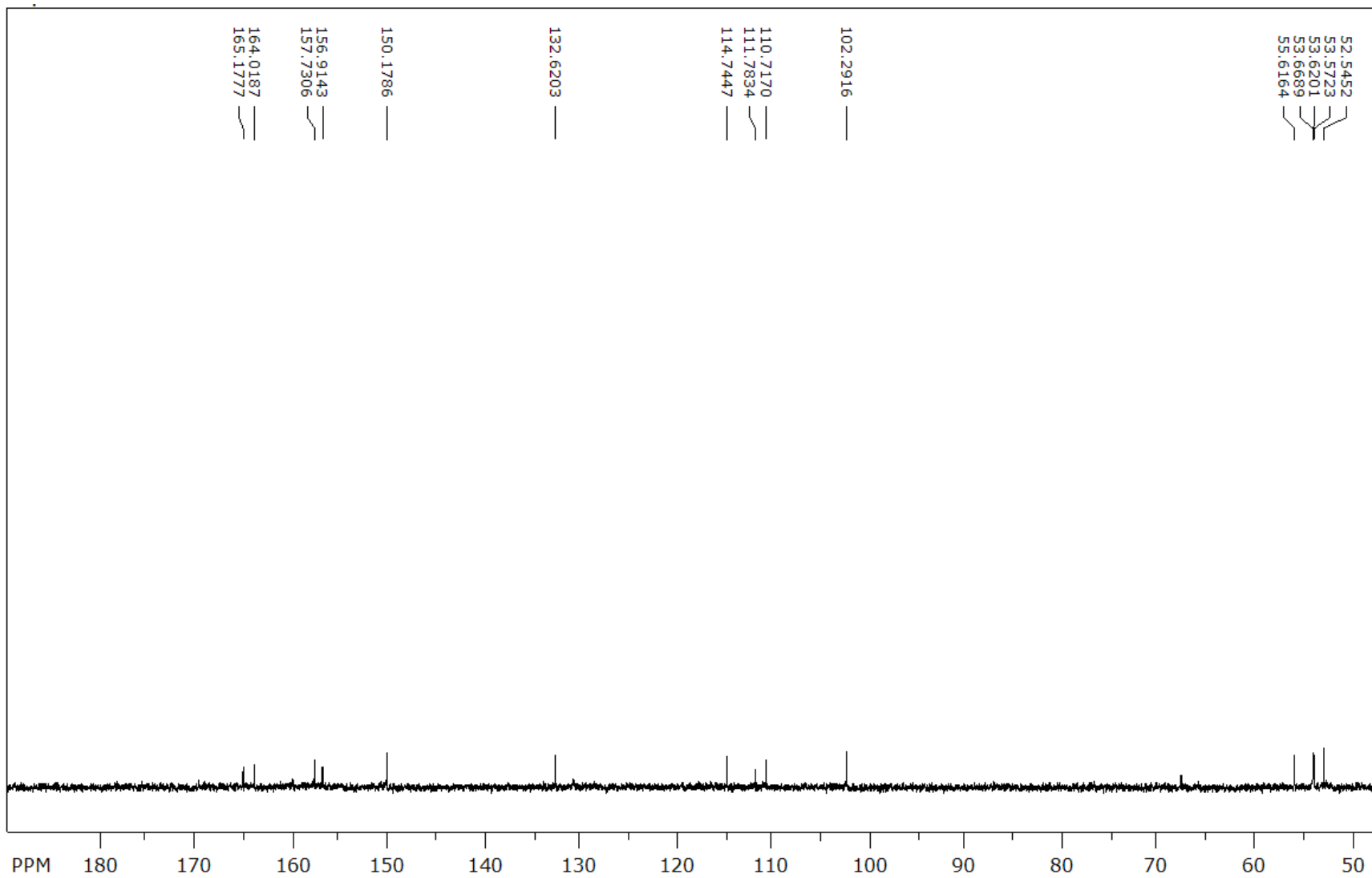
# Maseni spektar (1g)



# <sup>1</sup>H NMR spektr (1g)



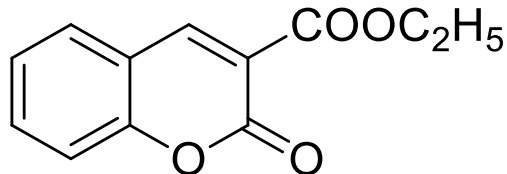
# <sup>13</sup>C NMR spektr (1g)



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etil 2-okso-2H-kromen-3-karboksilat (2a)

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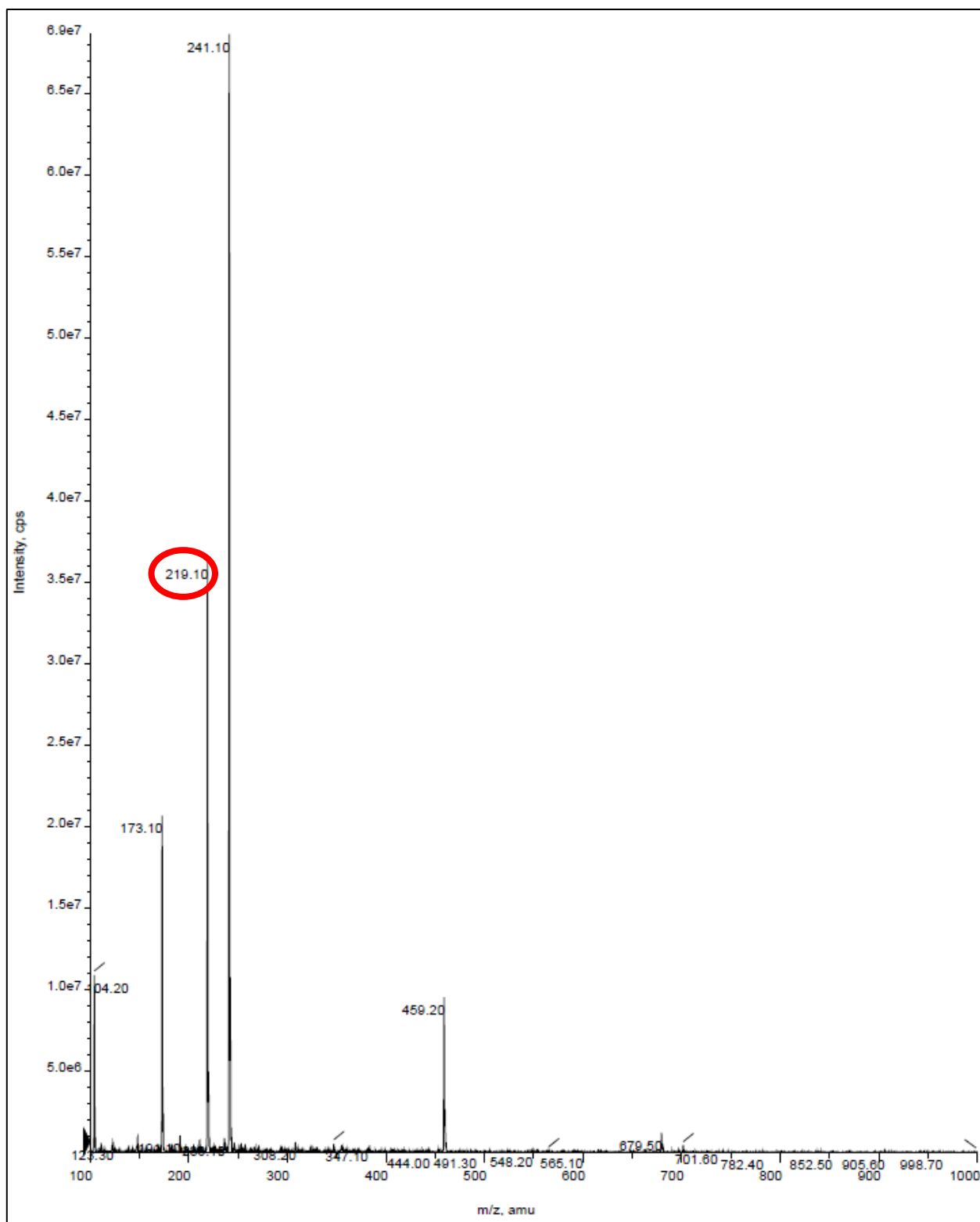


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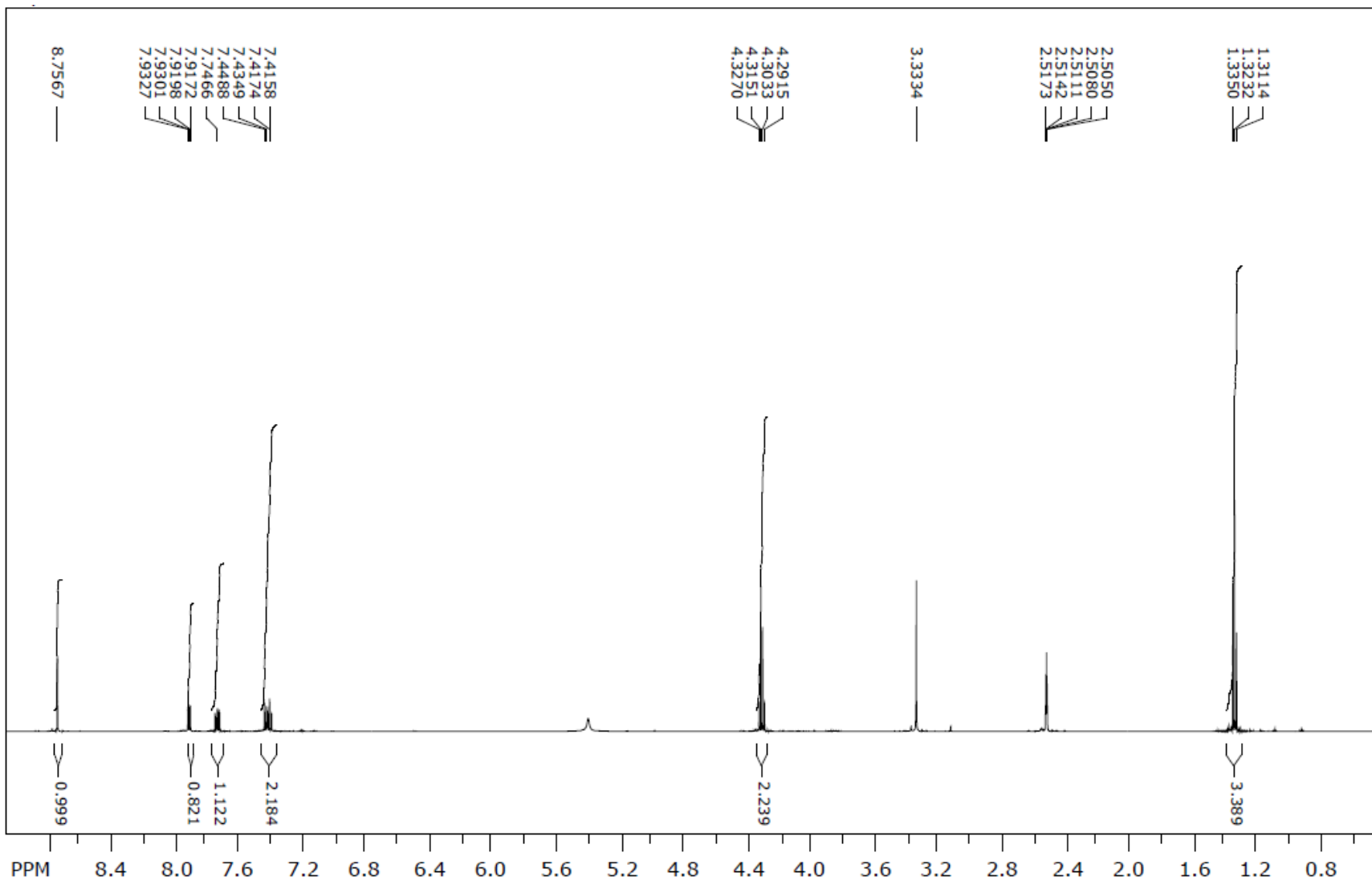
<b>Reaktanti</b>	Salicilaldehid (10 mmol) i dietilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	218,20 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>10</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	92 – 94 °C (lit. 90 – 91 °C, Shaabani i sur., 2009)
<b>Boja kristala</b>	Svijetložuta
<b>R<sub>f</sub></b>	0,67
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	219,10
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,76 (s, 1H, coum.), 7,92 (dd, <i>J</i> = 9,09, 1,40 Hz, 1H, arom.), 7,71 - 7,78 (m, 1H, arom.), 7,39 - 7,45 (m, 2H, arom.), 4,32 (q, <i>J</i> = 7,10 Hz, 2H, CH <sub>2</sub> CH <sub>3</sub> ), 1,33 (t, <i>J</i> = 7,10 Hz 3H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,6; 155,9; 154,5; 148,6; 134,4; 130,2; 124,8; 117,8; 116,1; 61,2; 14,0.

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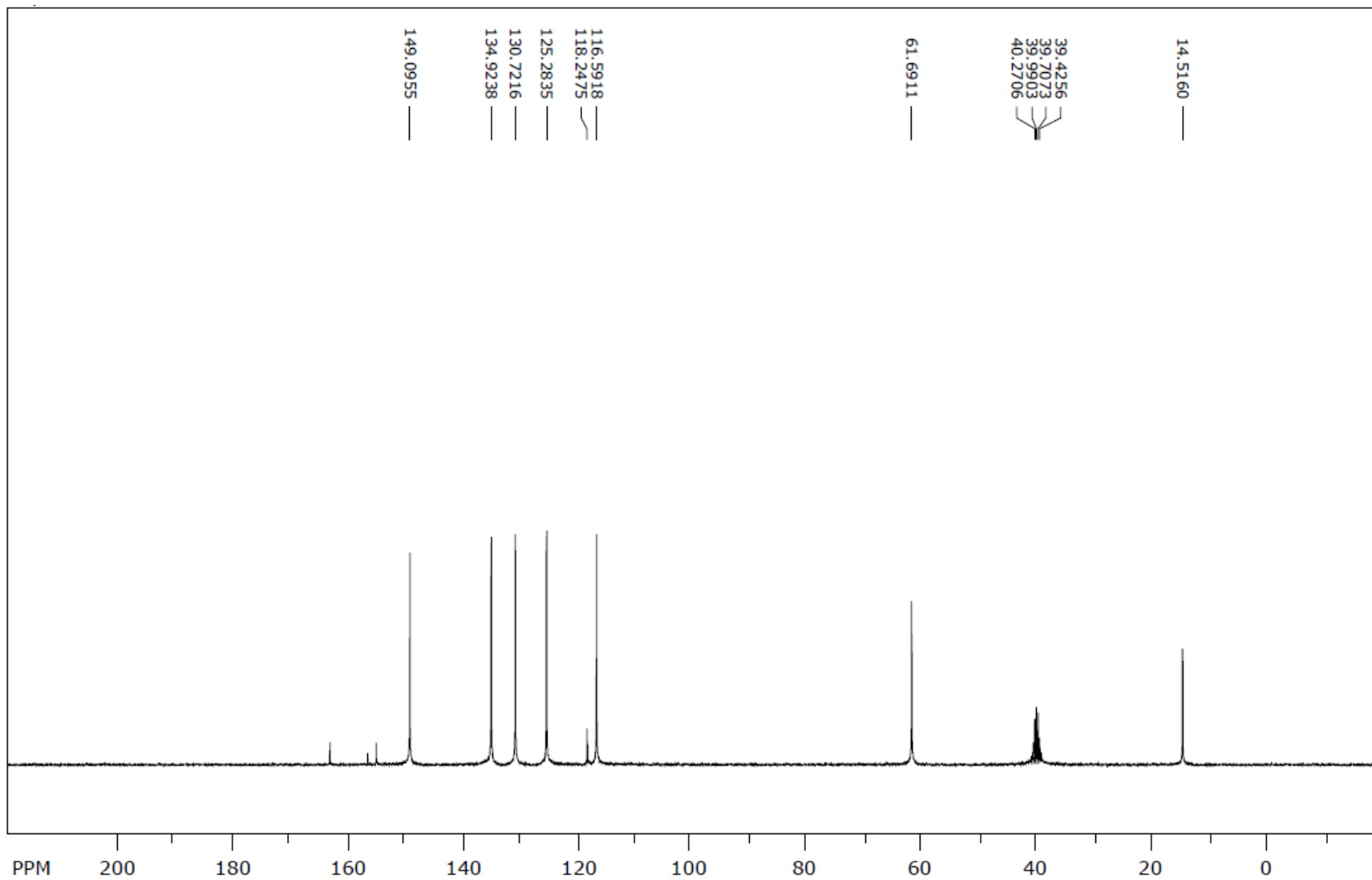
# Maseni spektar (2a)



**<sup>1</sup>H NMR spektr (2a)**



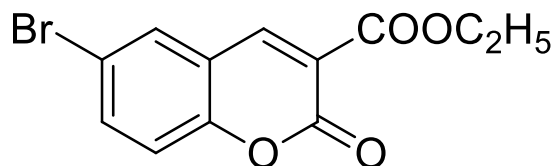
**<sup>13</sup>C NMR spektr (2a)**



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etil 6-brom-2-okso-2H-kromen-3-karboksilat (2b)

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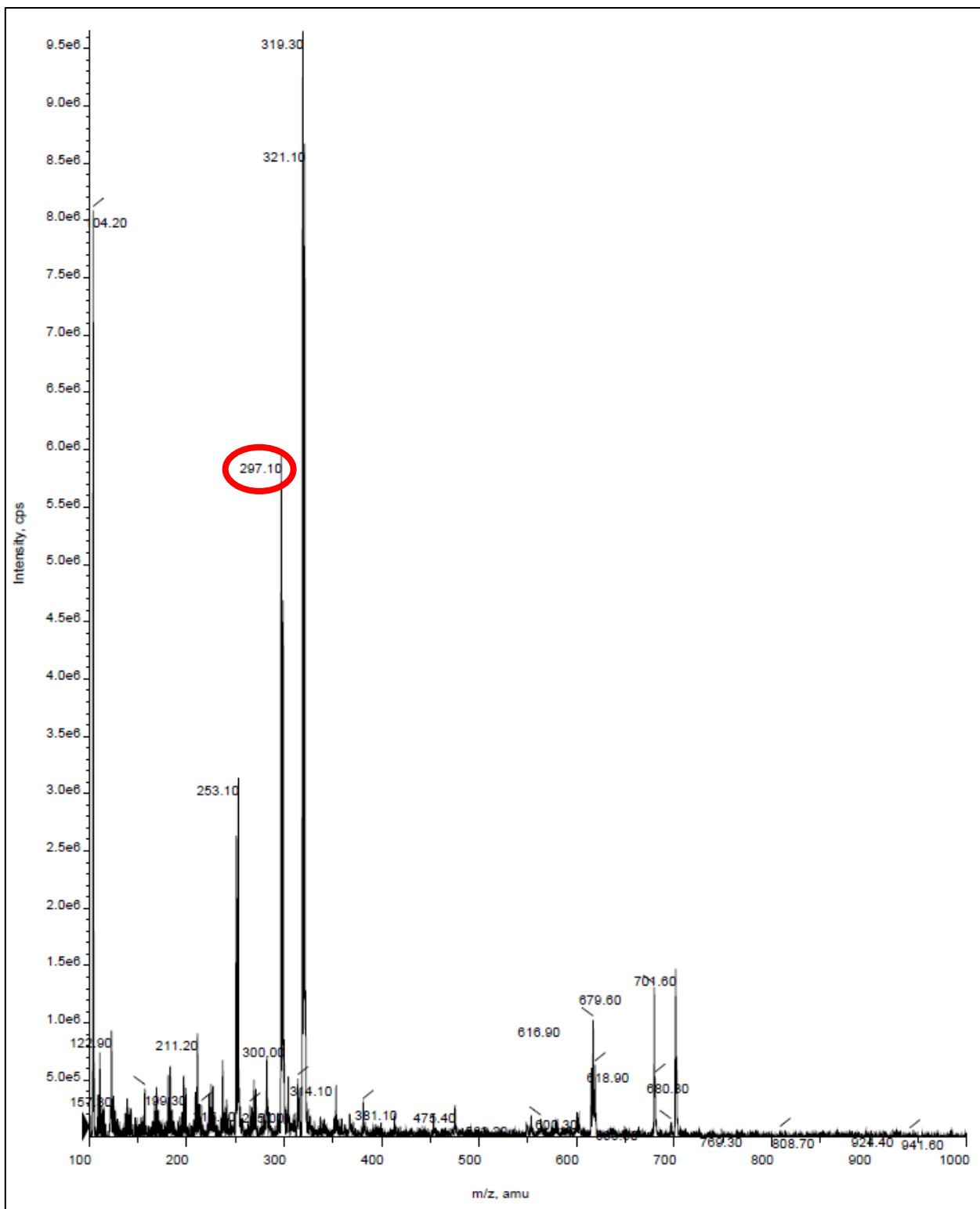
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<b>Reaktanti</b>	5-bromsalicilaldehid (10 mmol) i dietilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	297,1 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> BrO <sub>4</sub>
<b>Temperatura tališta</b>	164 – 169 °C (lit. 164 – 166 °C, Srikrishna i sur., 2014; 171 °C, Santos-Contreras i sur., 2007; 175 – 177 °C, He i sur., 2015)
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,76
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	297,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,69 (s, 1H, coum.), 8,17 (s, 1H, arom.), 7,87 (dd, <i>J</i> = 8,58, 1,86 Hz, 1H, arom.), 7,40 (d, <i>J</i> = 8,82 Hz, 1H, arom.), 4,30 (q, 2H, <i>J</i> = 7,06 Hz, CH <sub>2</sub> CH <sub>3</sub> ), 1,31 (t, 3H, <i>J</i> = 7,05 Hz, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,3; 155,5; 153,5; 147,2; 136,6; 132,3; 119,6; 118,8; 118,4; 116,2; 61,4; 14,00.

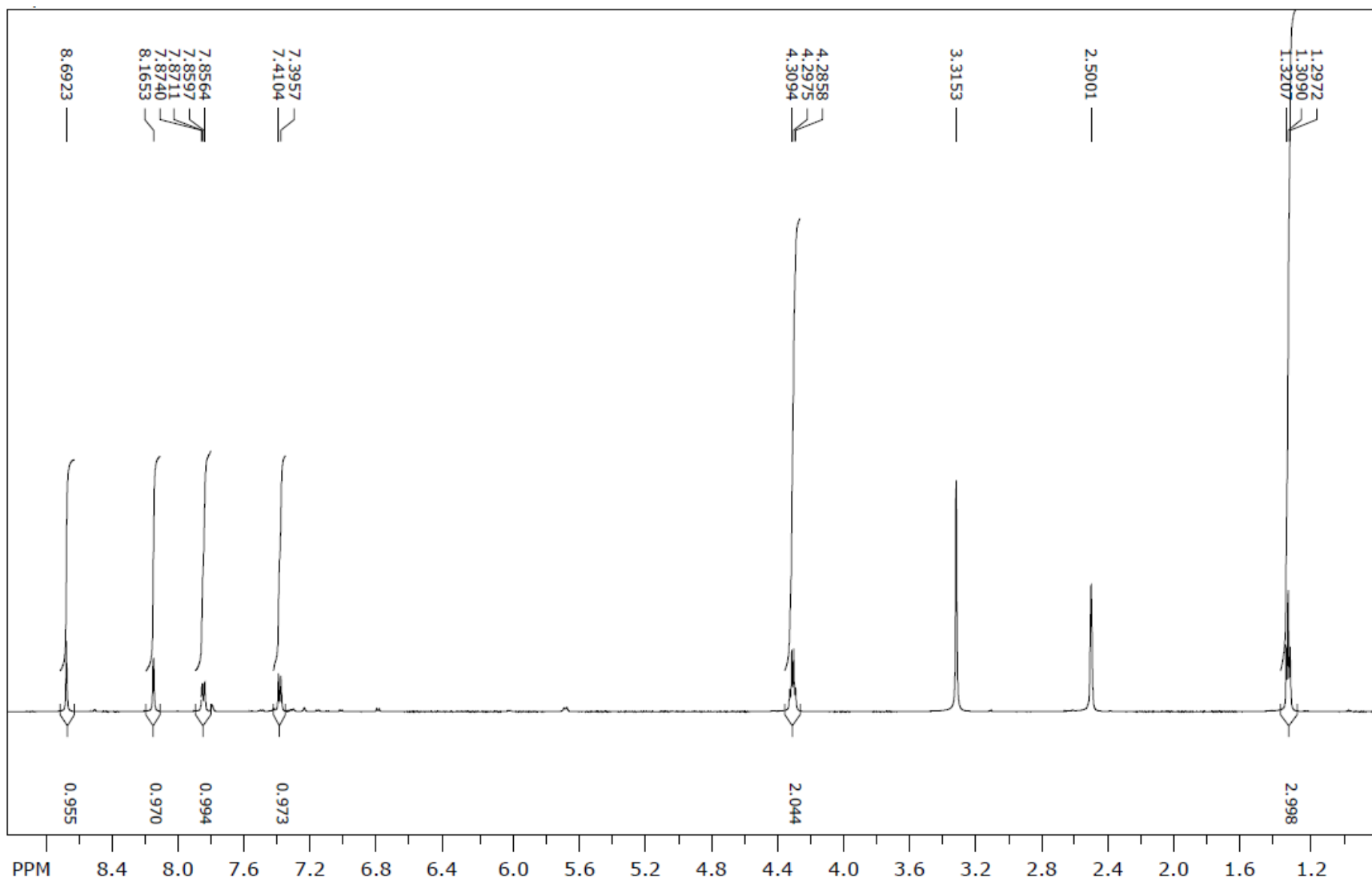
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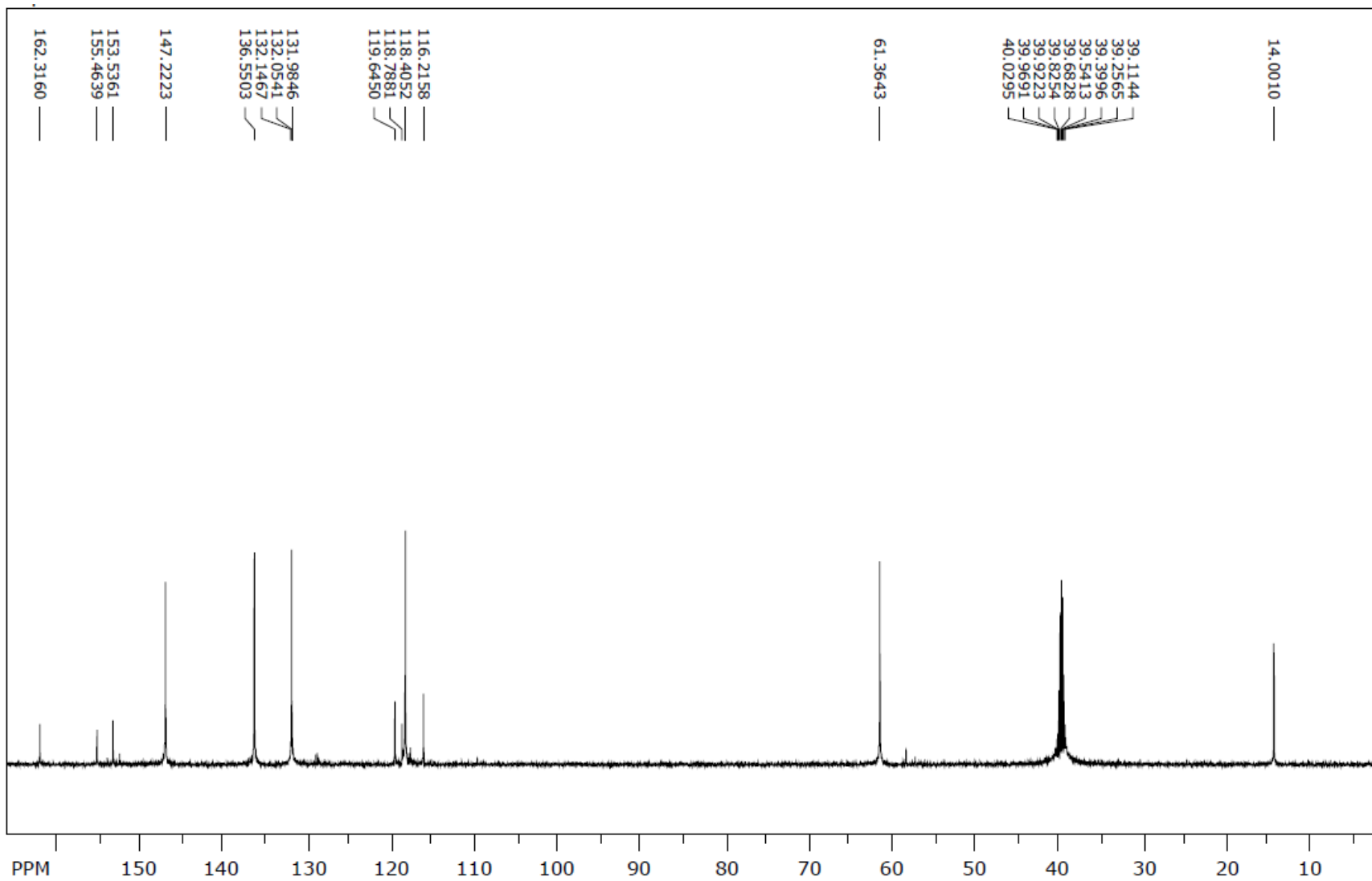
## Maseni spektar (2b)



**<sup>1</sup>H NMR spektr (2b)**



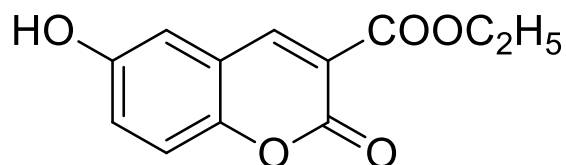
**<sup>13</sup>C NMR spektr (2b)**



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**etil 6-hidroksi-2-okso-2H-kromen-3-karboksilat (2c)**

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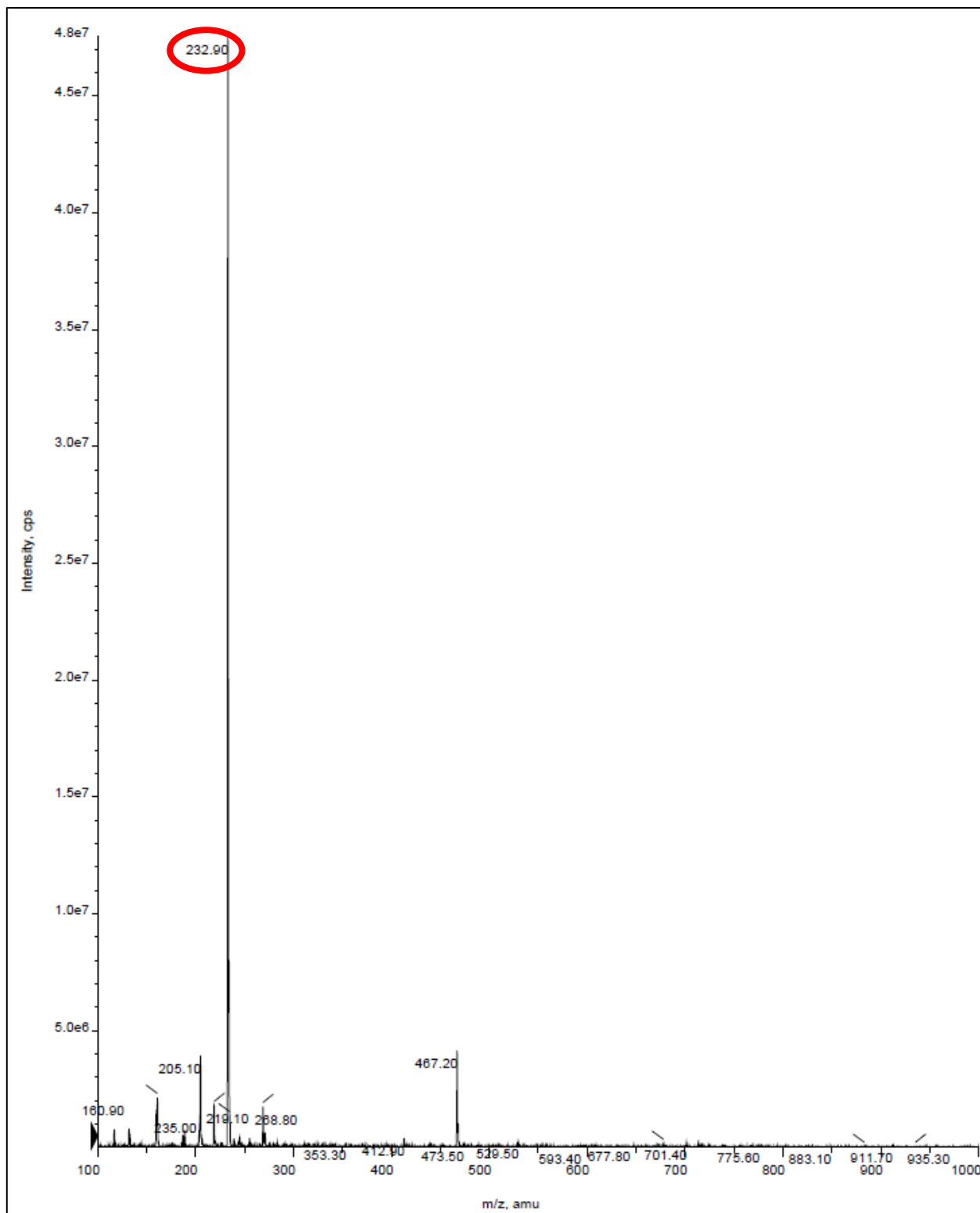


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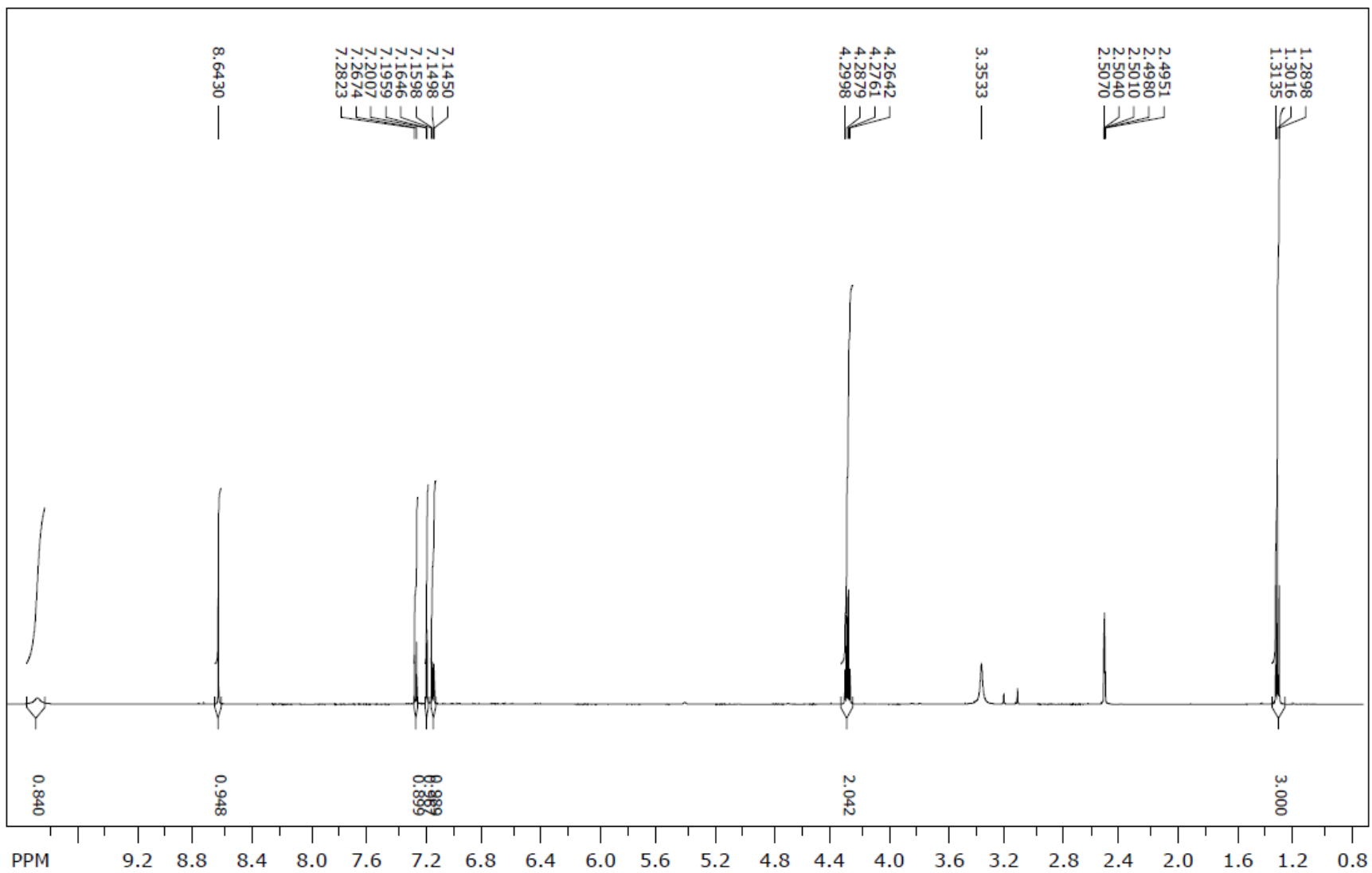
<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (10 mmol) i dietilmalonat (10 mmol)
<b>Metoda pročiščavanja</b>	Nije pročiščavan
<b>Molekulska masa</b>	234,20 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>10</sub> O <sub>5</sub>
<b>Temperatura tališta</b>	170 – 173 °C (lit. 174 – 175 °C, Bisht i sur., 2017)
<b>Boja kristala</b>	Crna
<b>R<sub>f</sub></b>	0,36
<b>LC/MS/MS m/z (M-)</b>	232,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,90 (s, 1H, OH), 8,64 (s, 1H, arom.), 7,28 (d, 1H, <i>J</i> = 8,94 Hz, arom.), 7,20 (d, <i>J</i> = 2,88 Hz, 1H, arom.), 7,15 (dd, <i>J</i> = 8,88, 2,88 Hz, 1H, arom.), 4,28 (q, 2H, <i>J</i> = 7,12 Hz, <u>CH</u> <sub>2</sub> CH <sub>3</sub> ), 1,30 (t, 3H, <i>J</i> = 7,11 Hz, CH <sub>2</sub> <u>CH</u> <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,7; 156,3; 153,9; 148,4; 147,9; 122,6; 118,2; 117,8; 117,0; 113,7; 61,1; 14,0.

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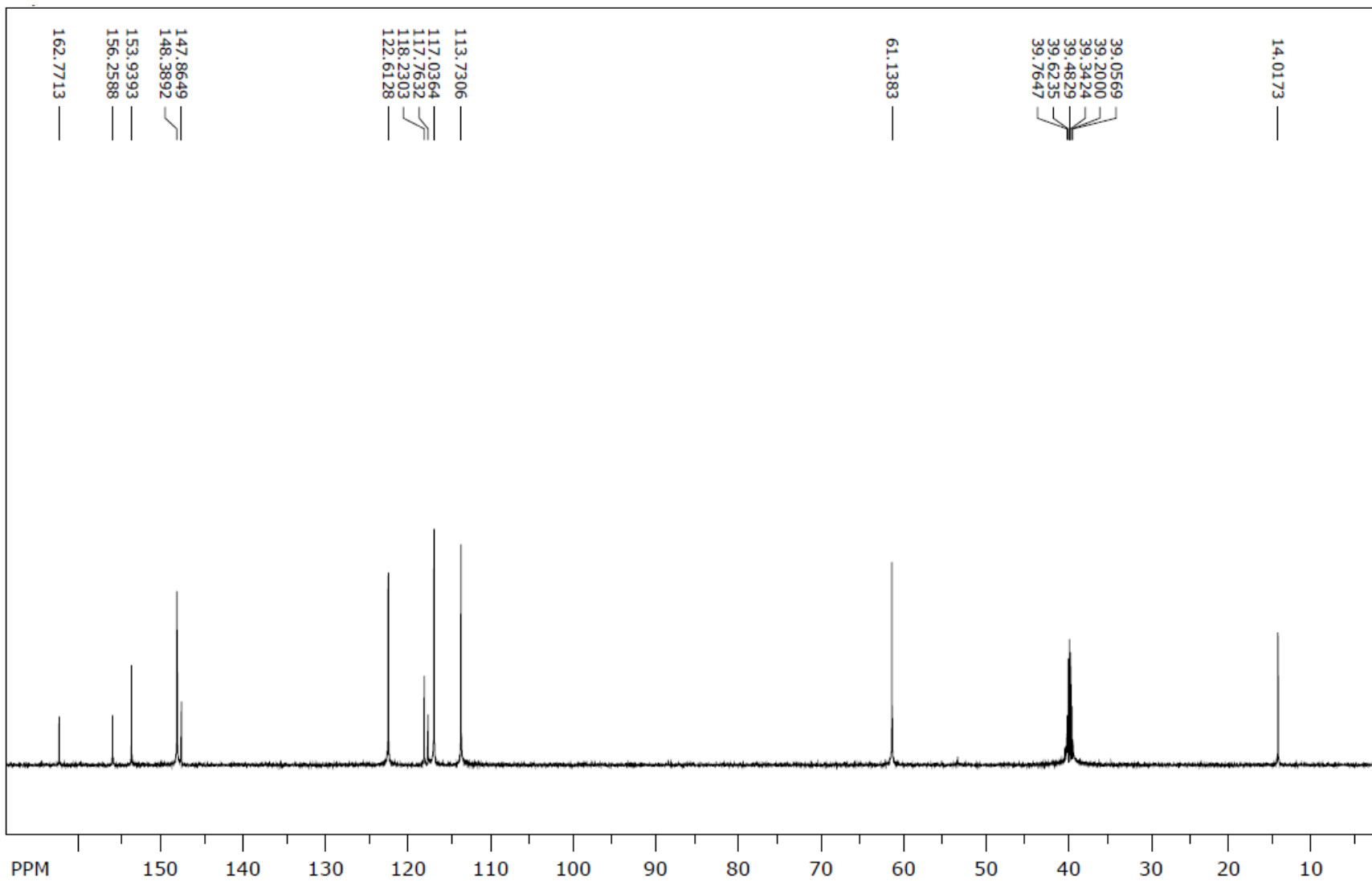
### Maseni spektar (2c)



<sup>1</sup>H NMR spektr (2c)



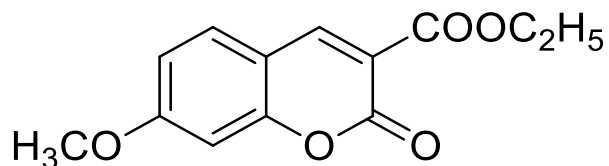
**<sup>13</sup>C NMR spektr (2c)**



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etil 7-metoksi-2-okso-2H-kromen-3-karboksilat (2d)

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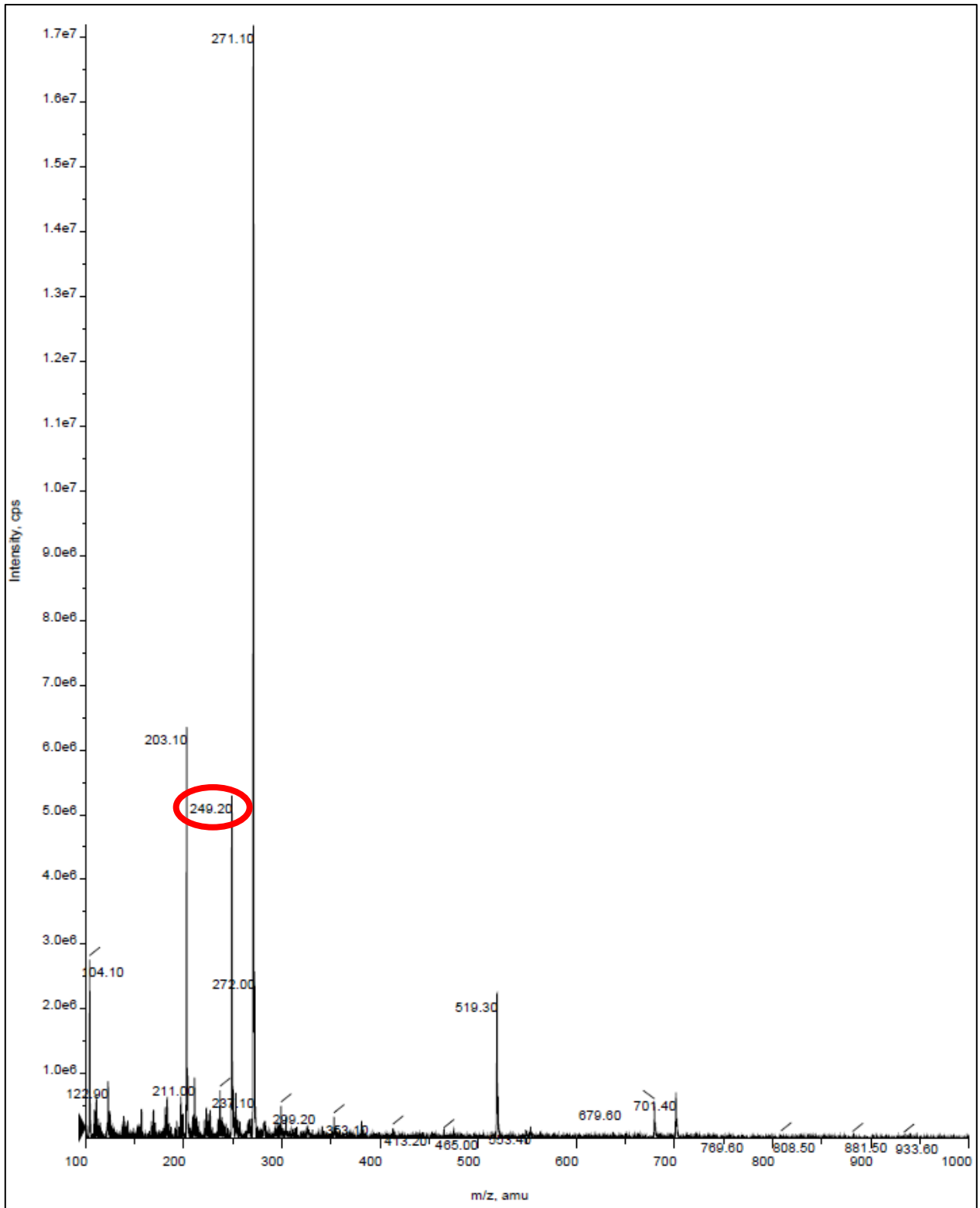
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<b>Reaktanti</b>	4-metoksibenzaldehid (3,3 mmol) i dietilmalonat (3,3 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	248,23 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>12</sub> O <sub>5</sub>
<b>Temperatura tališta</b>	157 – 160 °C (lit. 125 – 126 °C, Shaabani i sur., 2009)
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,68
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	249,20
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,69 (s, 1H, coum.), 7,47 (d, 1H, <i>J</i> = 2,82 Hz, arom.), 7,37 (d, <i>J</i> = 9,06 Hz, 1H, arom.), 7,32 (dd, <i>J</i> = 9,06, 2,94 Hz, 1H, arom.), 4,30 (q, 2H, <i>J</i> = 7,10 Hz, <u>CH</u> <sub>2</sub> CH <sub>3</sub> ), 3,81 (s, 3H, OCH <sub>3</sub> ), 1,32 (t, 3H, <i>J</i> = 7,08 Hz, CH <sub>2</sub> <u>CH</u> <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,6; 155,7; 148,9; 122,2; 118,1; 117,2; 115,5; 111,9; 110,8; 61,2; 55,7; 14,00.

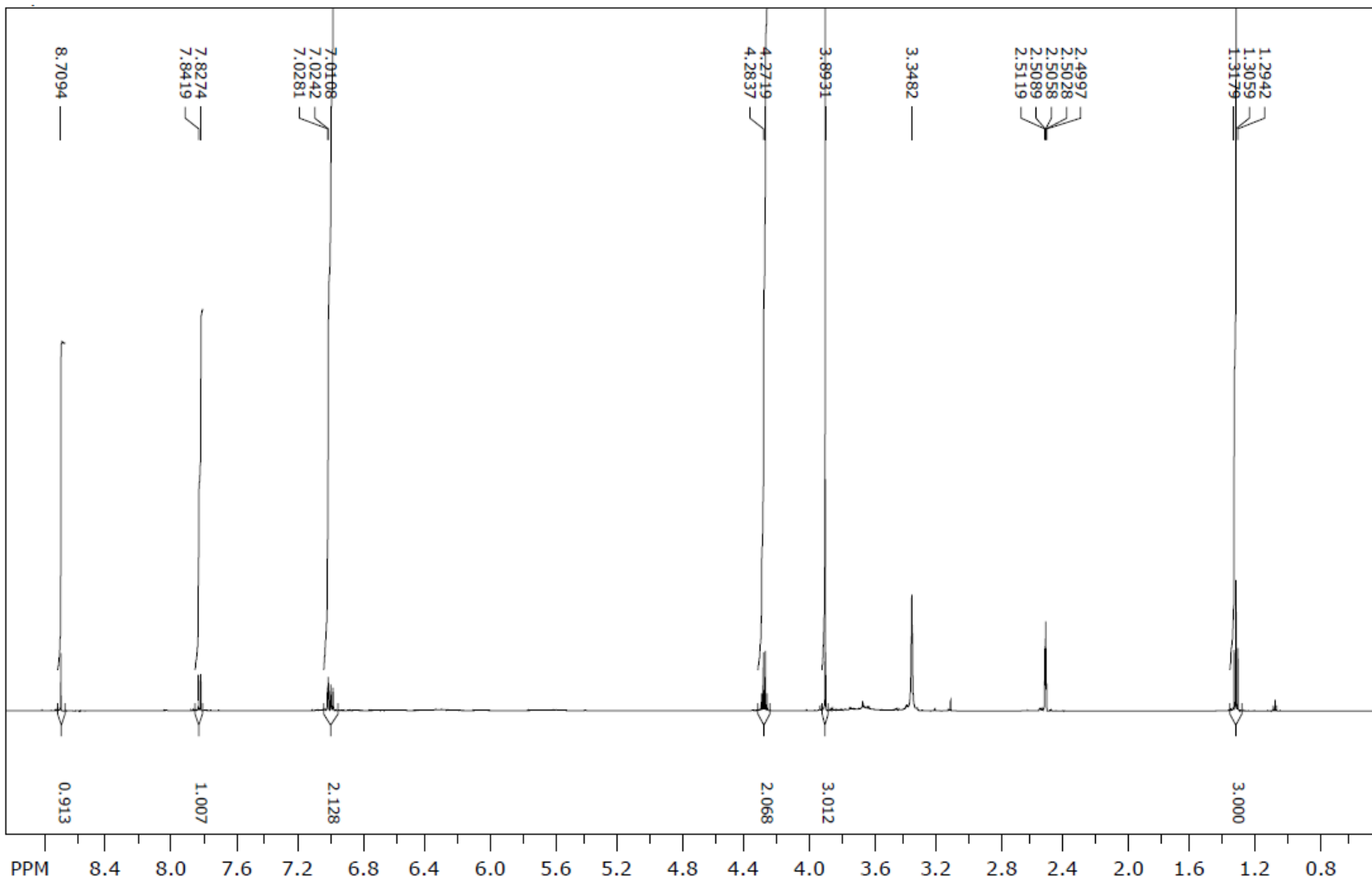
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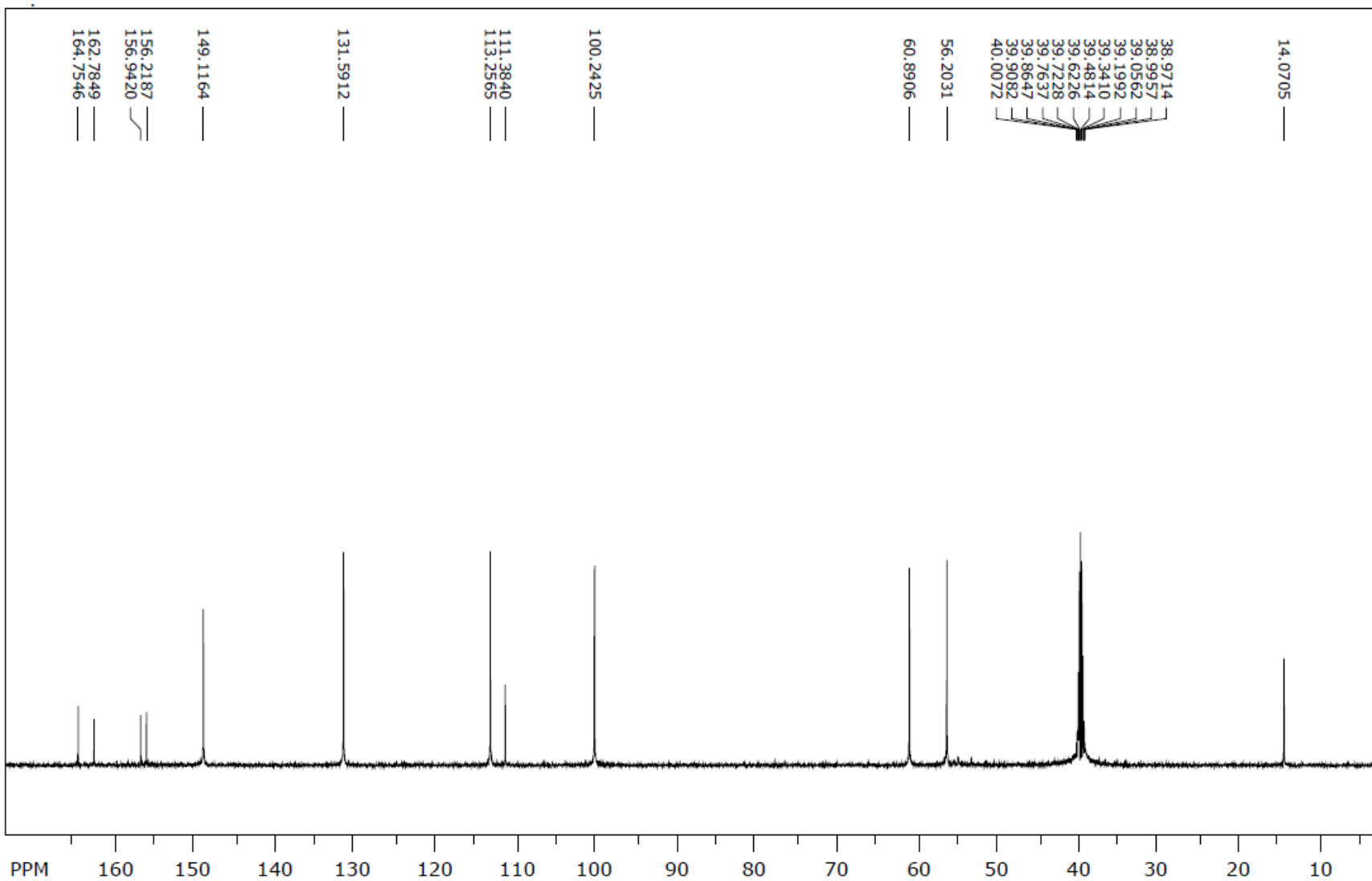
## Maseni spektar (2d)



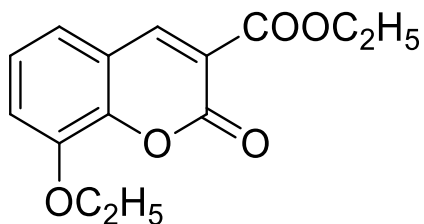
<sup>1</sup>H NMR spektr (2d)



**<sup>13</sup>C NMR spektr (2d)**

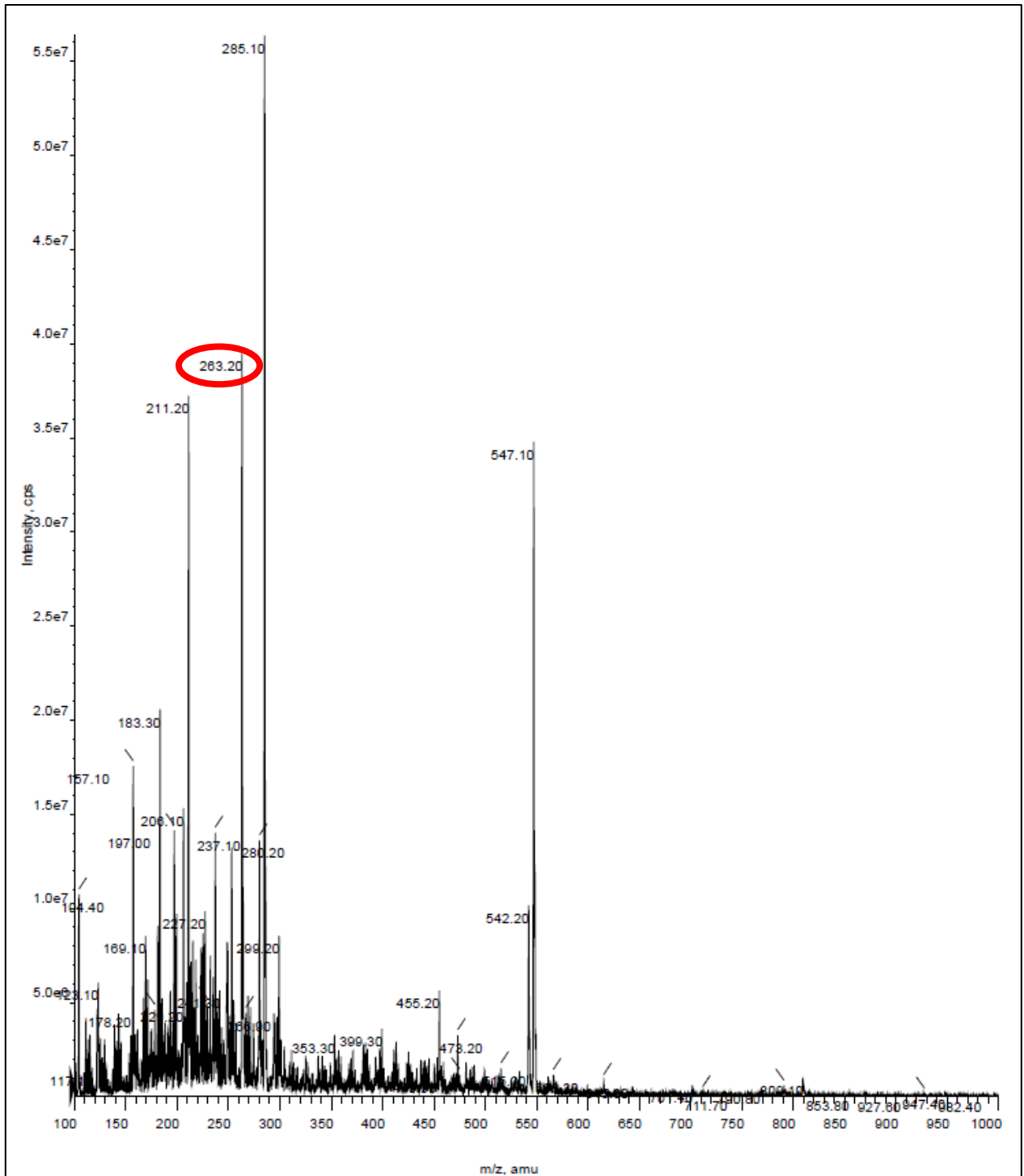


etil 8-etoksi-2-okso-2H-kromen-3-karboksilat (2e)

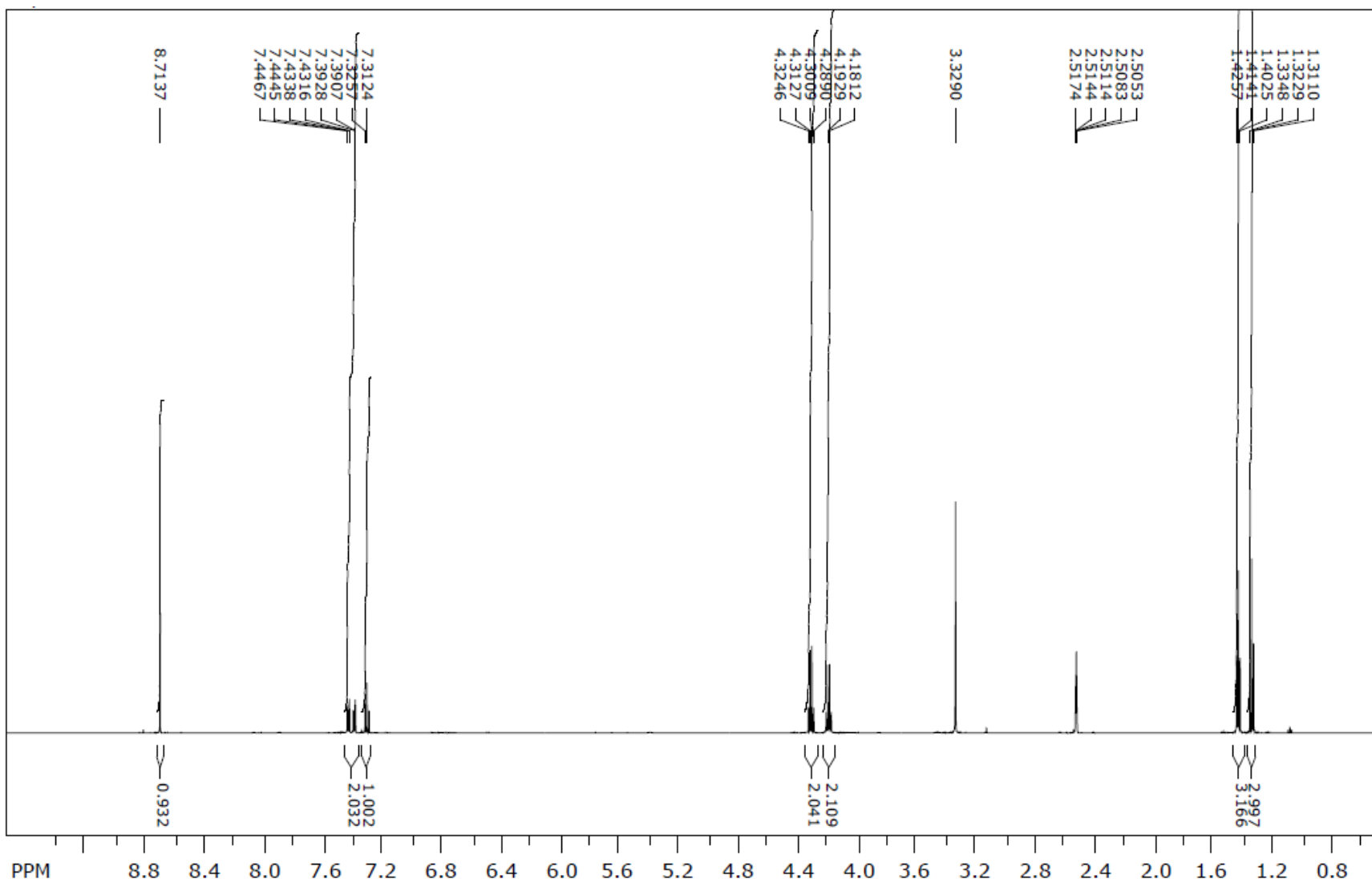


<b>Reaktanti</b>	3-etoksisalicilaldehid (10 mmol) i dietilmalonat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	262,25
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>14</sub> O <sub>5</sub>
<b>Temperatura tališta</b>	98 – 100 °C
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,72
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	263,20
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,71 (s, 1H, coum.), 7,44 (dd, <i>J</i> = 7,74, 1,32 Hz, 1H, arom.), 7,40 (dd, <i>J</i> = 8,22, 1,29 Hz, 1H, arom.), 7,32 (d, <i>J</i> = 7,98 Hz, 1H, arom.), 4,31 (q, 2H, <i>J</i> = 7,12 Hz, <u>CH</u> <sub>2</sub> CH <sub>3</sub> ), 4,19 (q, 2H, <i>J</i> = 6,98 Hz, <u>CH</u> <sub>2</sub> CH <sub>3</sub> ), 1,41 (t, <i>J</i> = 6,96 Hz, 3H, <u>CH</u> <sub>2</sub> <u>CH</u> <sub>3</sub> ), 1,32 (t, <i>J</i> = 7,14 Hz, 3H, <u>CH</u> <sub>2</sub> <u>CH</u> <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,5; 155,7; 148,9; 145,4; 143,9; 124,7; 121,1; 118,4; 117,7; 117,3; 64,5; 61,2; 14,5; 14,0.

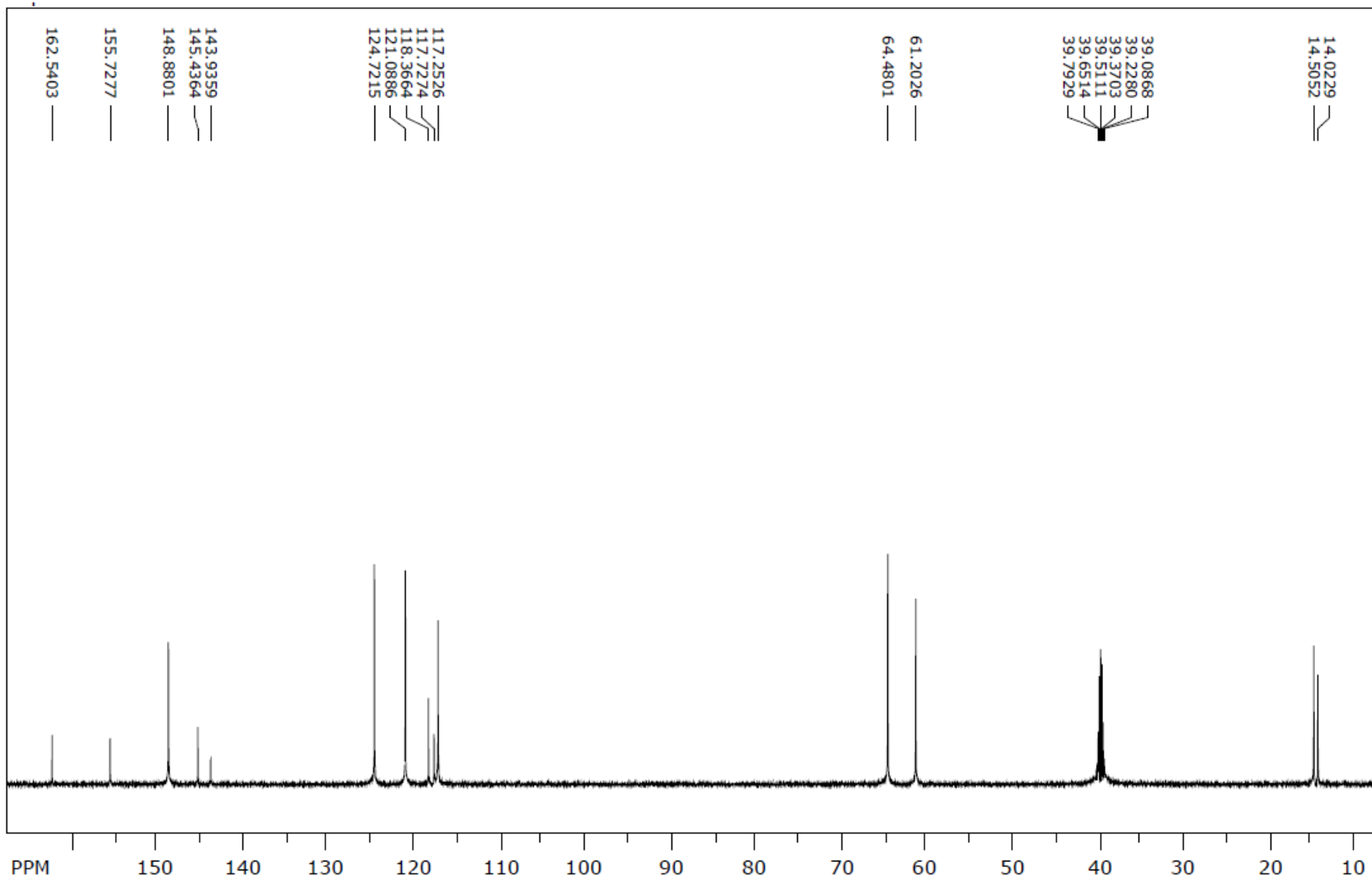
## Maseni spektr (2e)



<sup>1</sup>H NMR spektr (2e)



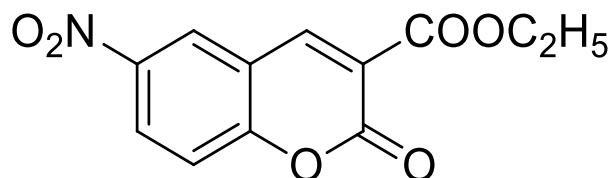
**<sup>13</sup>C NMR spektr (2e)**



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etil 6-nitro-2-okso-2H-kromen-3-karboksilat (2f)

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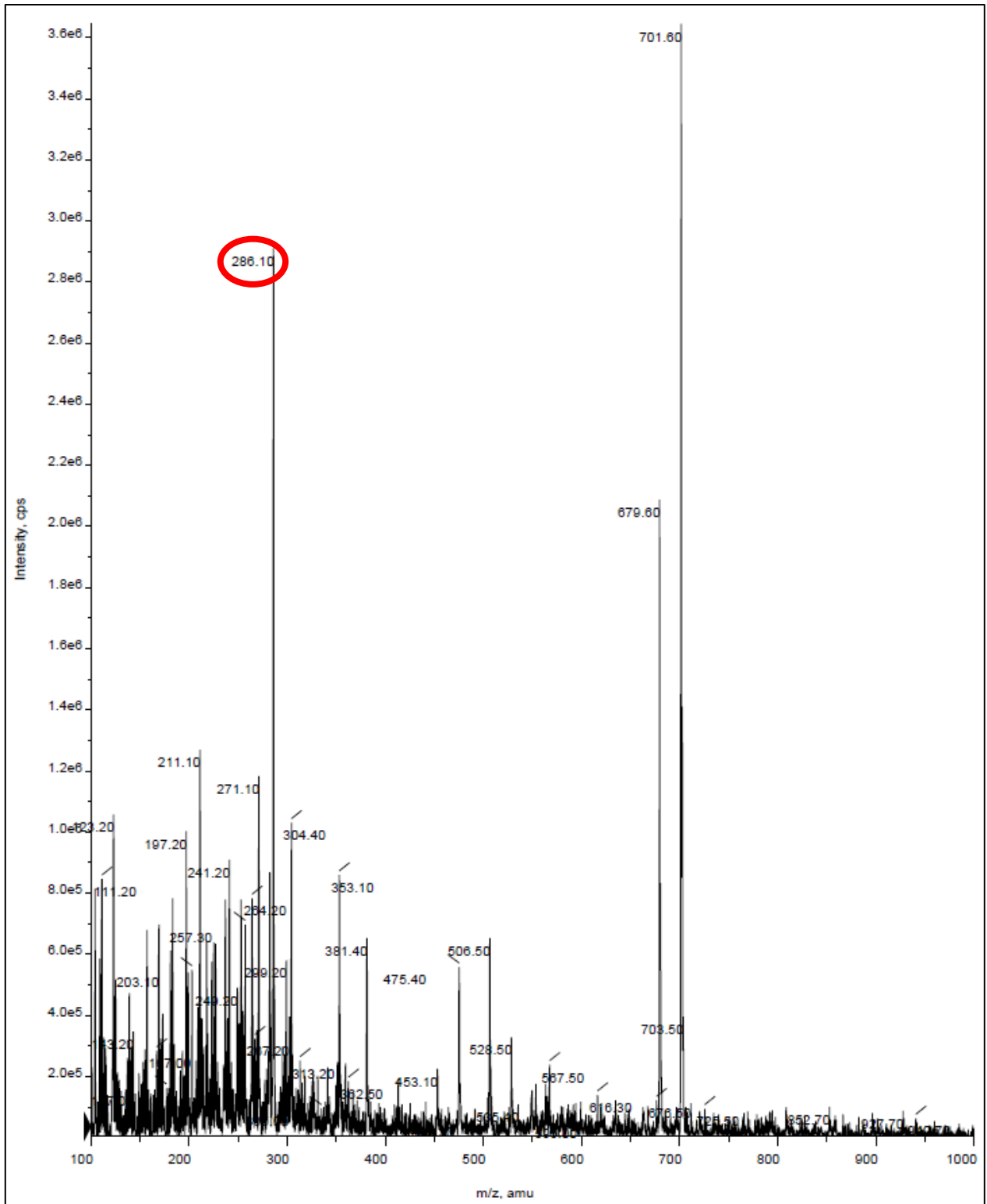


<b>Reaktanti</b>	5-nitrosalicilaldehid (3,1 mmol) i dietilmalonat (3,1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	263,20 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>6</sub>
<b>Temperatura tališta</b>	198 - 203 °C (lit. 192 - 193 °C, He i sur., 2015)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,83
<b>LC/MS/MS m/z (M+Na<sup>+</sup>)</b>	286,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,92 (s, 2H, arom.), 8,50 (dd, <i>J</i> = 9,18, 2,79 Hz, 1H, arom.), 7,65 (d, <i>J</i> = 9,12 Hz, 1H, arom.), 4,33 (q, <i>J</i> = 7,12 Hz, 2H, CH <sub>2</sub> CH <sub>3</sub> ), 1,33 (t, <i>J</i> = 7,08 Hz, 3H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,0; 158,0; 147,6; 143,6; 128,5; 126,0; 119,5; 118,2; 117,7; 61,5; 14,0.

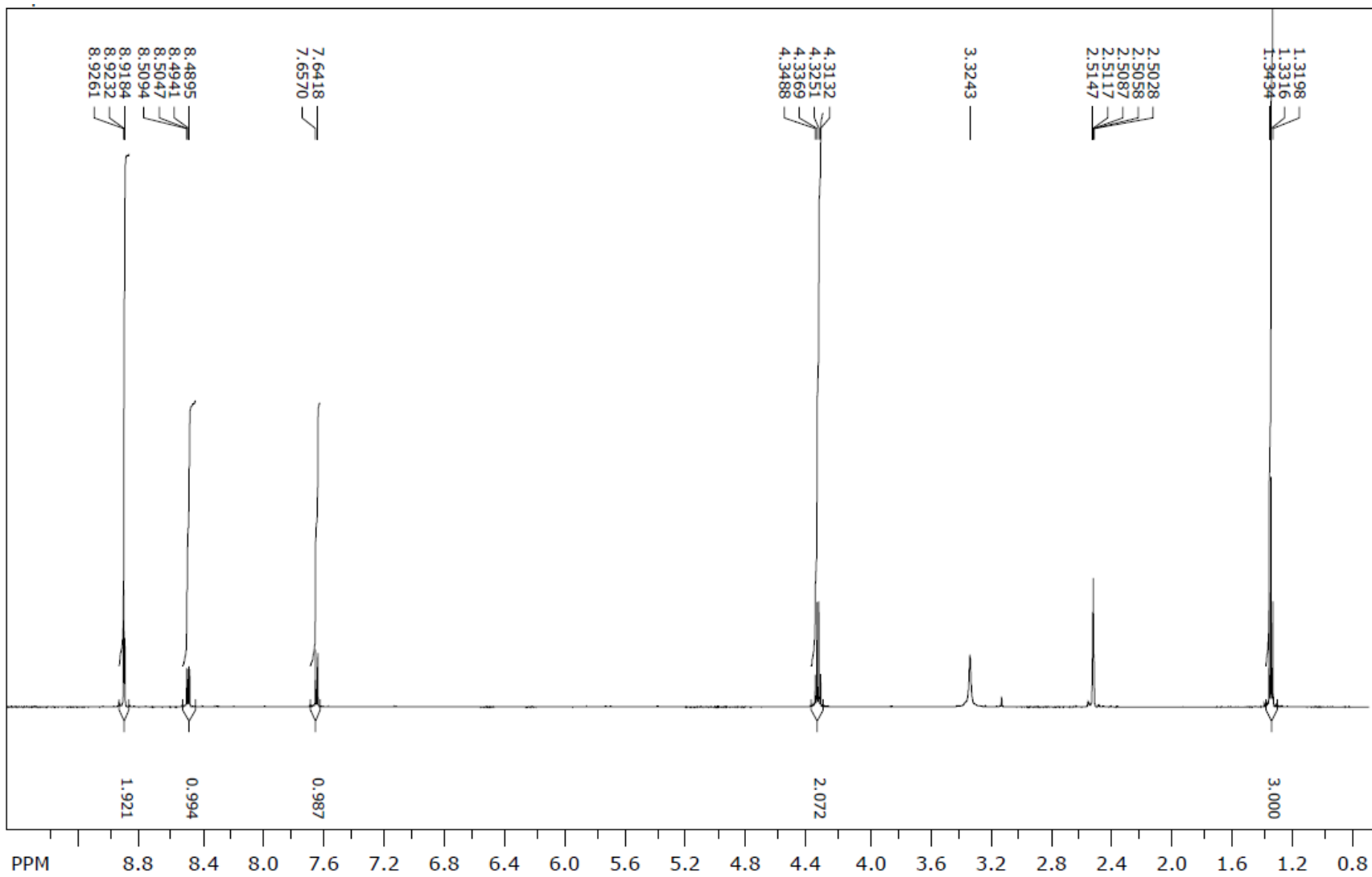
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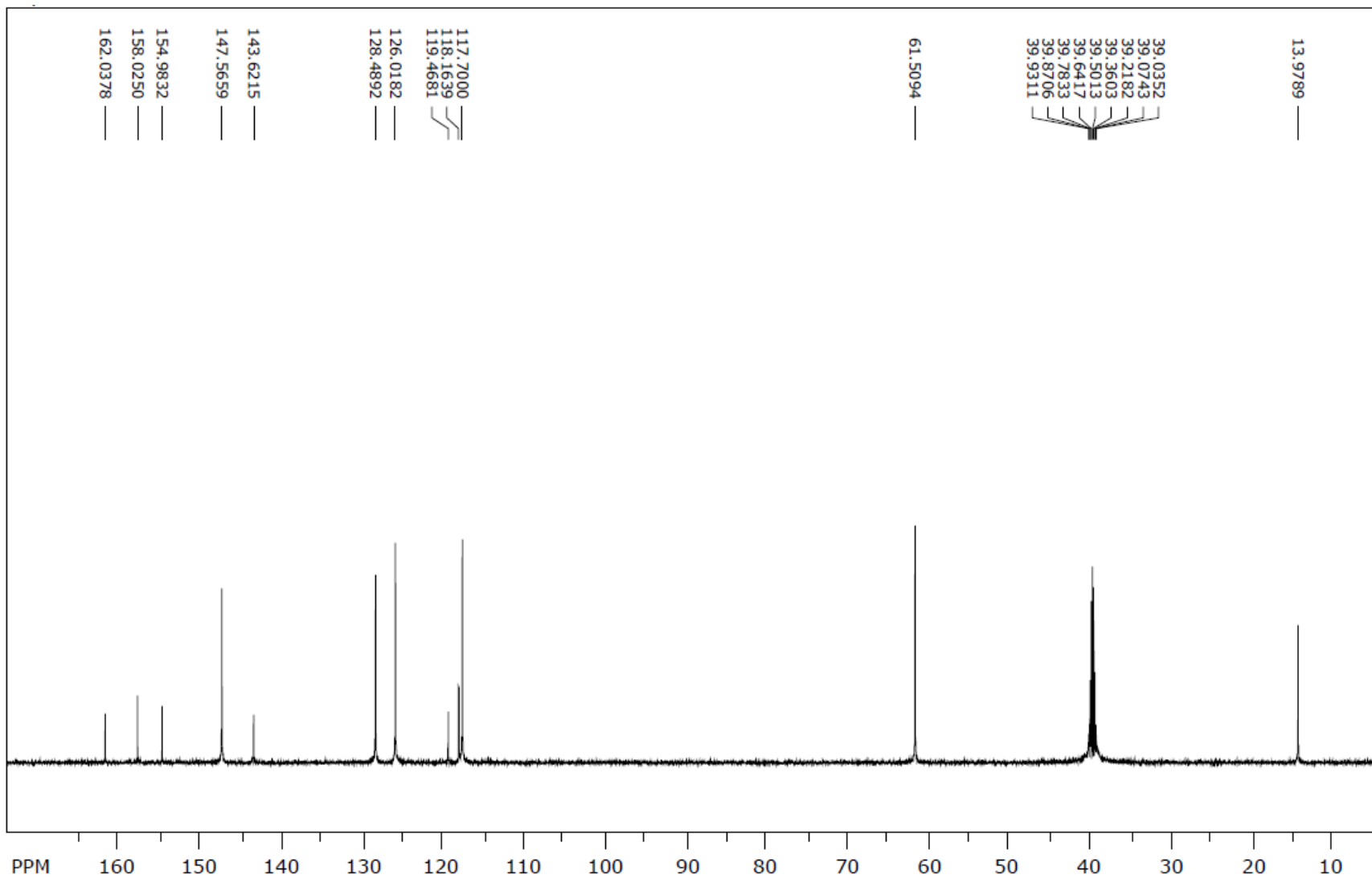
## Maseni spektar (2f)



<sup>1</sup>H NMR spektr (2f)



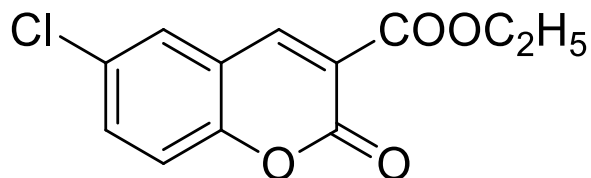
# <sup>13</sup>C NMR spektr (2f)



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etil 6-klor-2-okso-2H-kromen-3-karboksilat (2g)

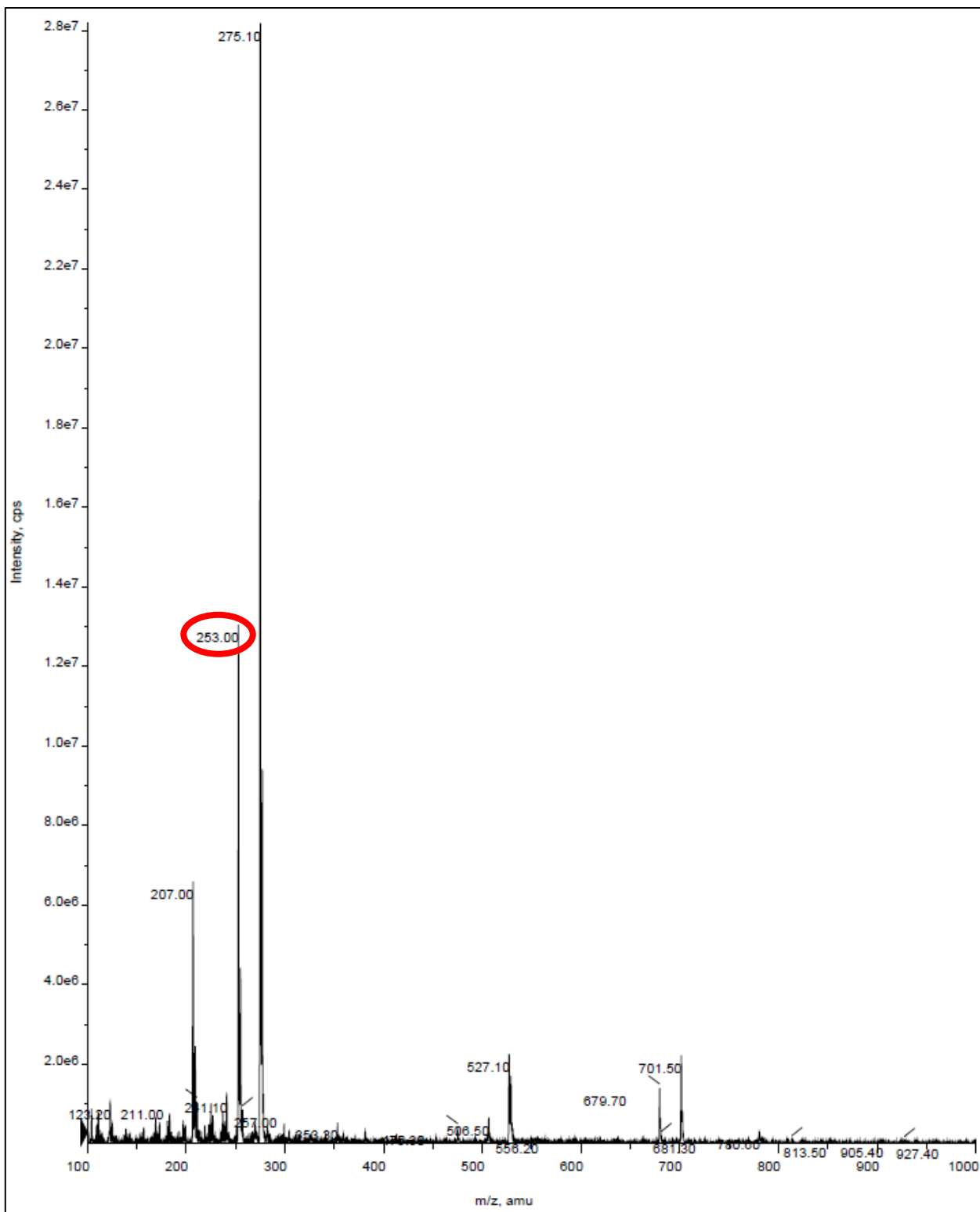
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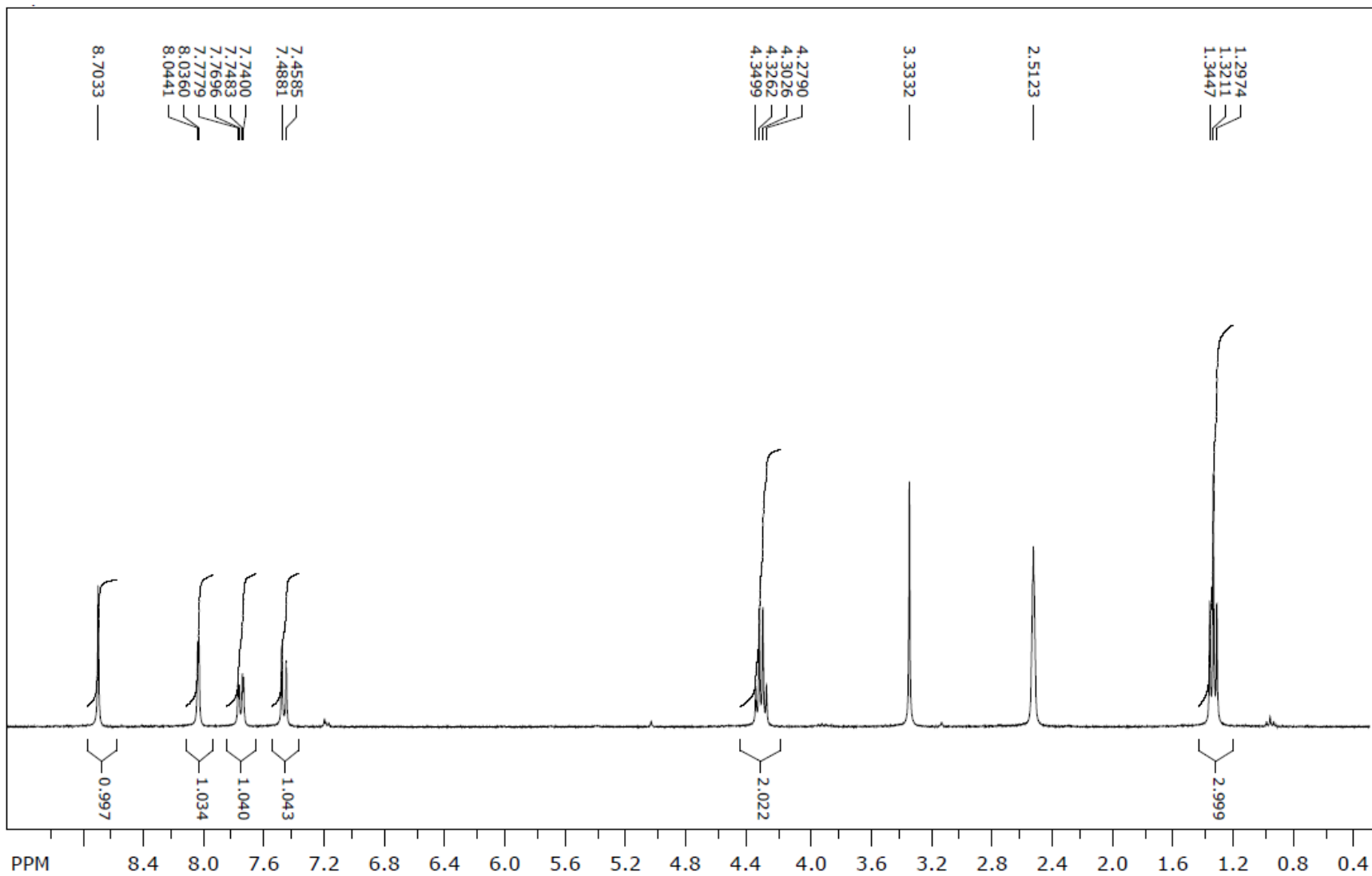
<b>Reaktanti</b>	5-klorosalicilaldehid (3,3 mmol) i dietilmalonat (3,3 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	252,65 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> ClO <sub>4</sub>
<b>Temperatura tališta</b>	167 – 172 °C (lit. 174 – 175 °C, He i sur., 2015)
<b>Boja kristala</b>	Svijetložuta
<b>R<sub>f</sub></b>	0,76
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	253,0
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,70 (s, 1H, arom.), 8,04 (d, 1H, <i>J</i> = 2,43 Hz, arom.), 7,76 (dd, <i>J</i> = 8,88, 2,49 Hz, 1H, arom.), 7,47 (d, <i>J</i> = 8,88 Hz, 1H, arom.), 4,31 (q, 2H, <i>J</i> = 7,09 Hz, <u>CH<sub>2</sub></u> CH <sub>3</sub> ), 1,32 (t, 3H, <i>J</i> = 7,10 Hz, CH <sub>2</sub> <u>CH<sub>3</sub></u> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 162,8; 156,0; 153,6; 147,8; 134,3; 129,5; 128,9; 119,6; 118,7; 62,6; 14,5.

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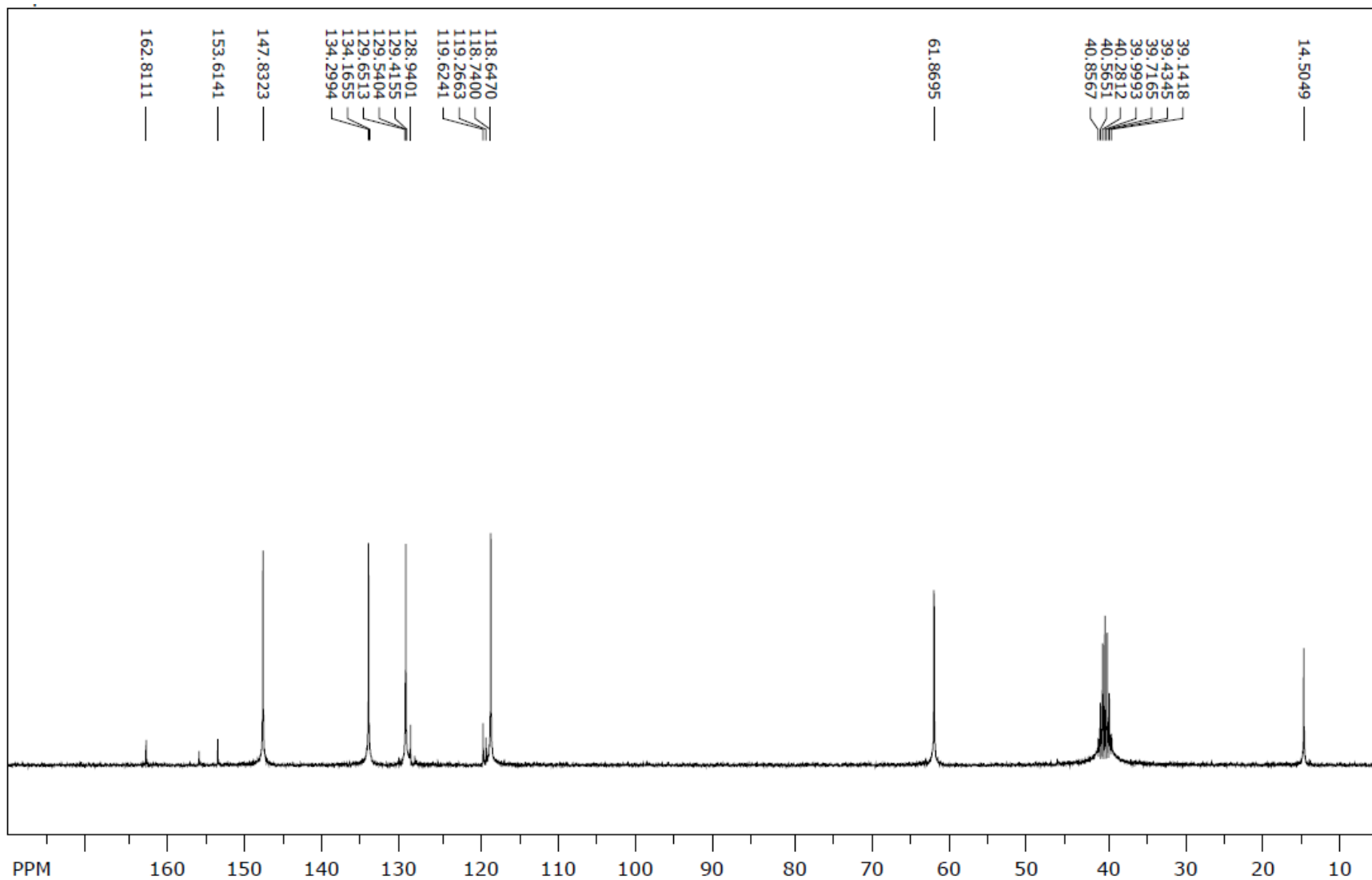
# Maseni spektar (2g)



# <sup>1</sup>H NMR spektr (2g)



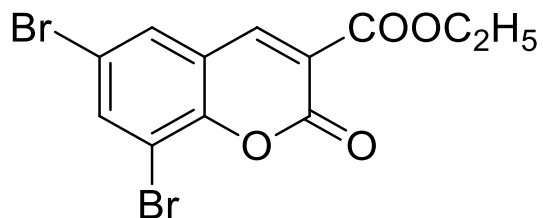
**<sup>13</sup>C NMR spektr (2g)**



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etil 6,8-dibrom-2-okso-2H-kromen-3-karboksilat (2h)

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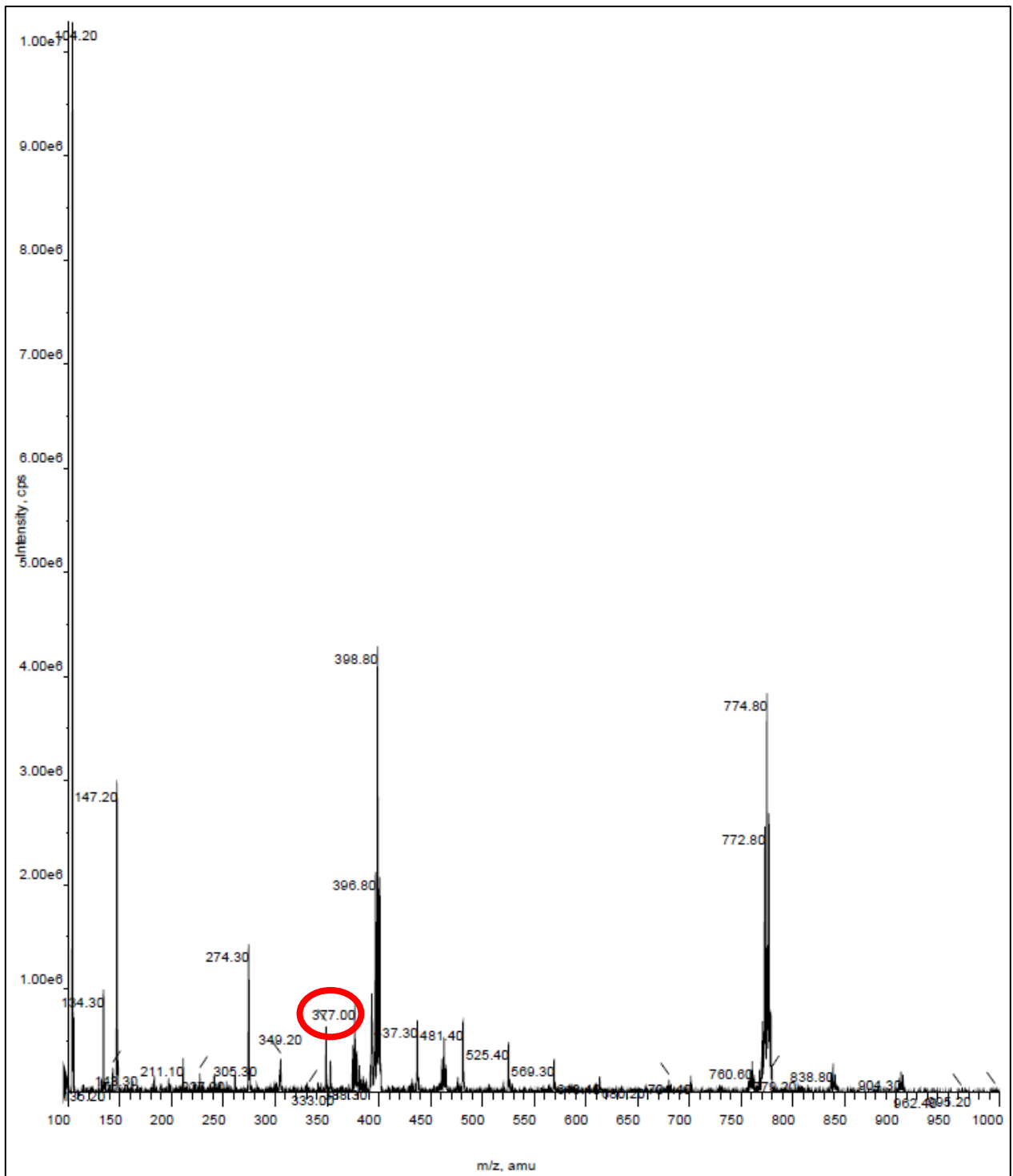
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<b>Reaktanti</b>	3,5-dibromsalicilaldehid (2,8 mmol) i dietilmalonat (2,8 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	375,99 g /mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>8</sub> Br <sub>2</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	170 – 173 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,83
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	377,0
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,66 (s, 1H, arom.), 8,20 (d, <i>J</i> = 2,28 Hz, 1H, arom.), 8,17 (d, <i>J</i> = 2,28 Hz, 1H, arom.), 4,32 (q, <i>J</i> = 7,12 Hz, 2H, CH <sub>2</sub> CH <sub>3</sub> ), 1,32 (t, <i>J</i> = 7,11 Hz, 3H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 161,9; 154,8; 150,4; 147,0; 138,4; 131,7; 120,7; 119,4; 116,2; 110,0; 61,5; 13,9.

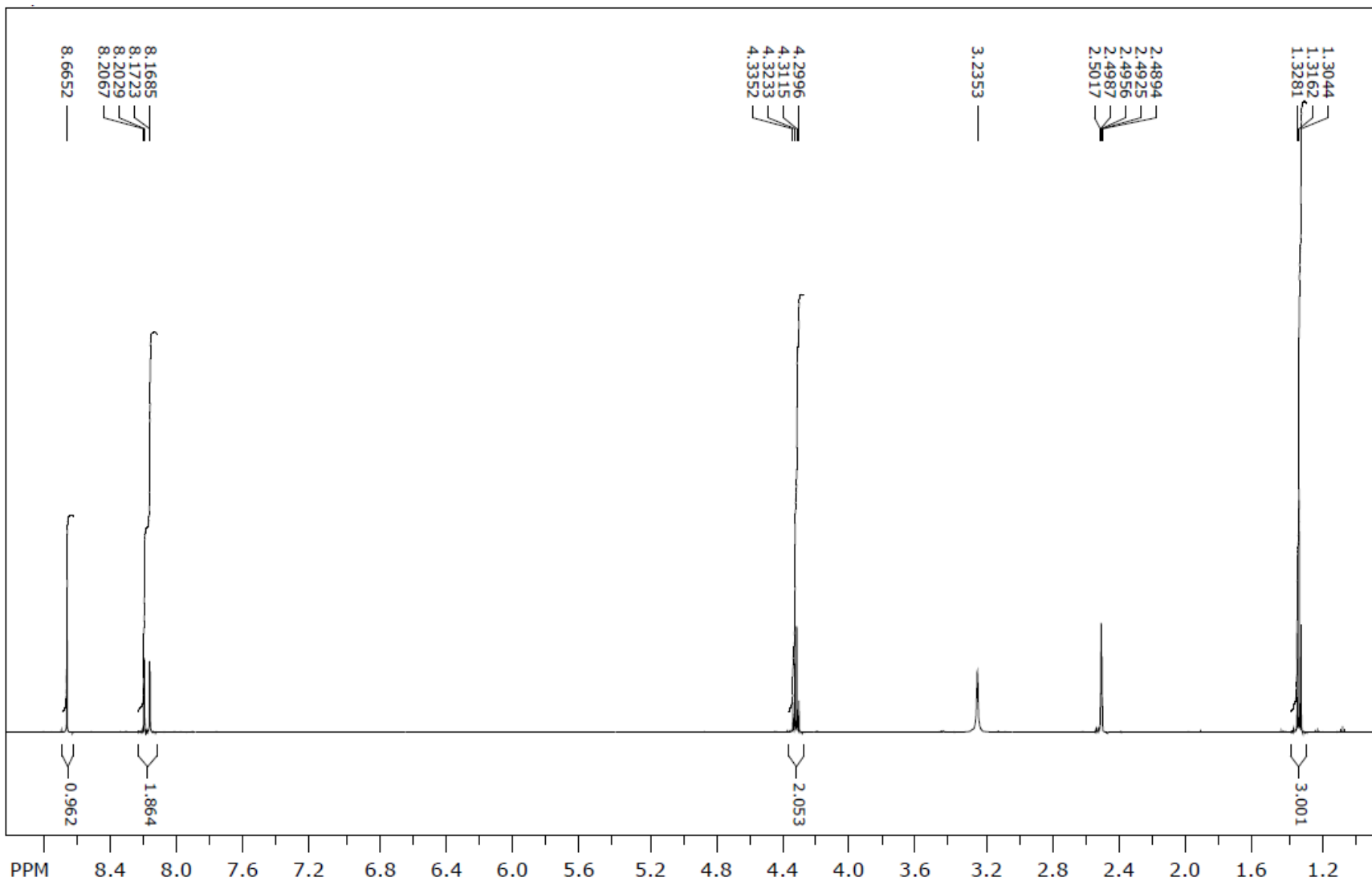
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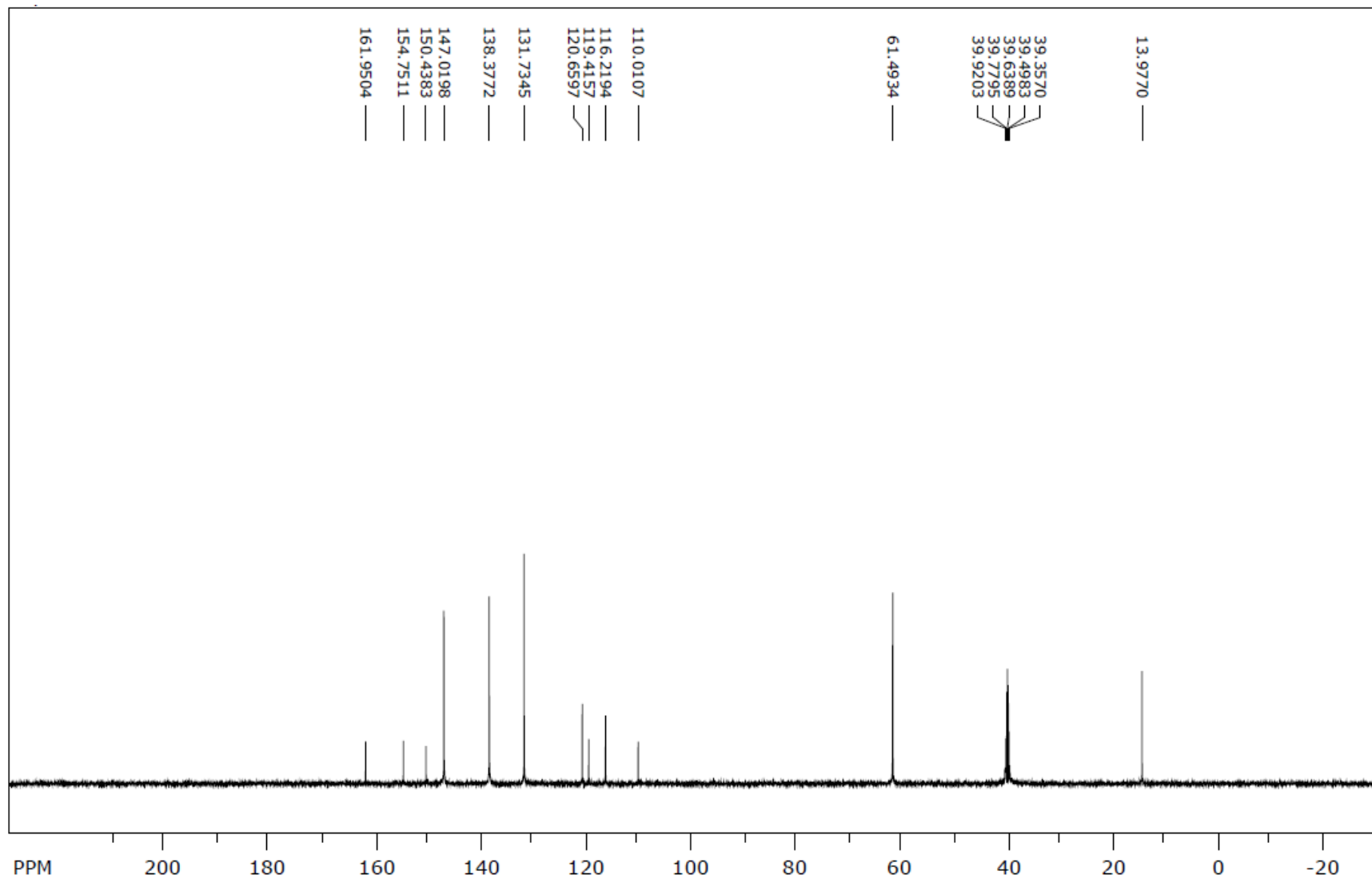
## Maseni spektr (2h)



# <sup>1</sup>H NMR spektr (2h)



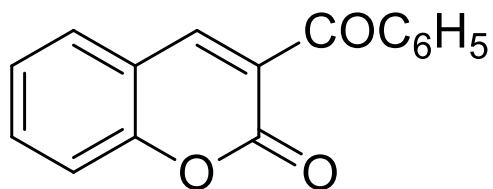
<sup>13</sup>C NMR spektr (2h)



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**3-benzoil-2H-kromen-2-on (3a)**

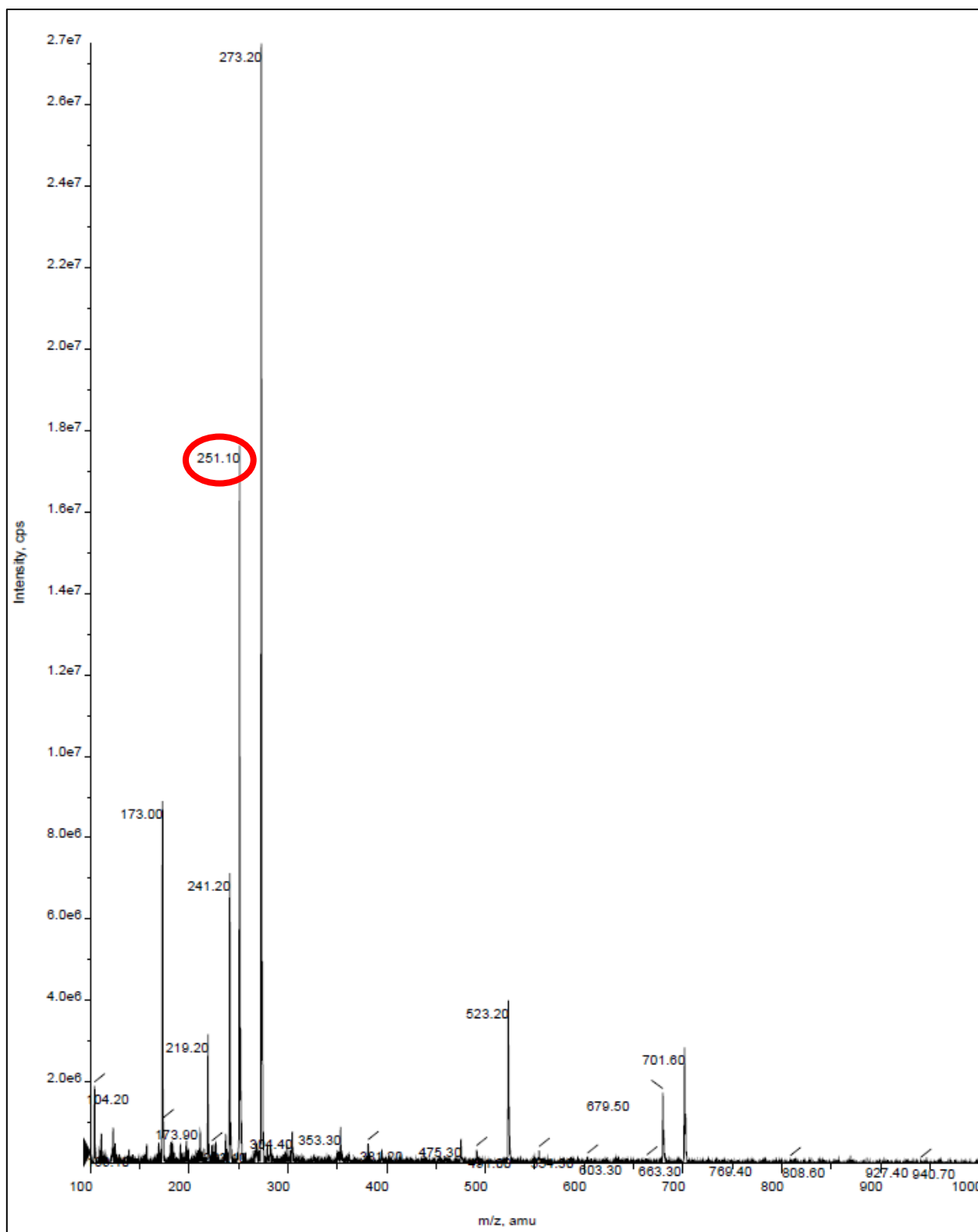
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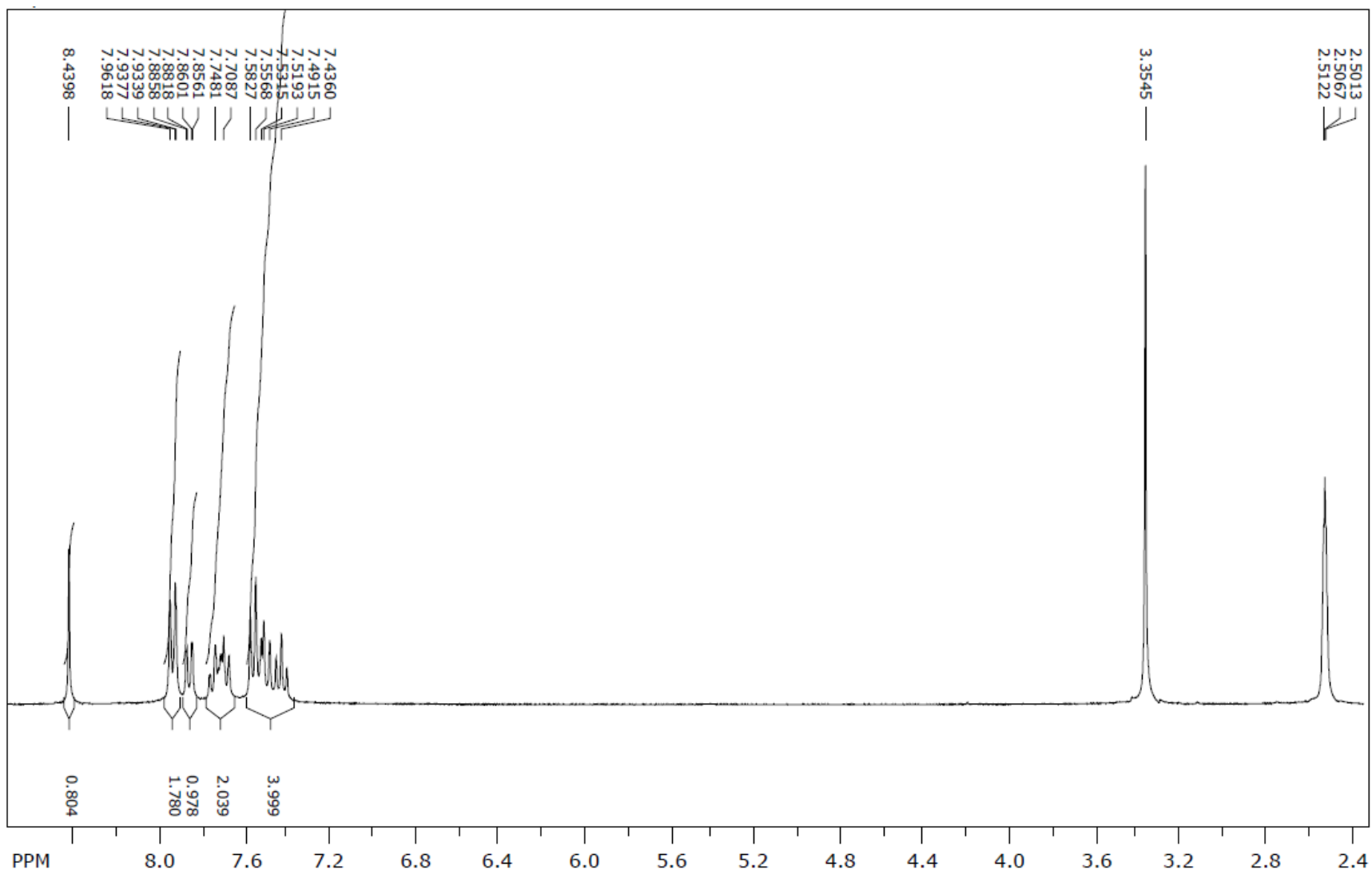
<b>Reaktanti</b>	Salicilaldehid (1,3 mmol) i etil benzoilacetat (1,3 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	250,24 g/mol
<b>Molekulska formula</b>	C <sub>16</sub> H <sub>10</sub> O <sub>3</sub>
<b>Temperatura tališta</b>	100 – 103 °C
<b>Boja kristala</b>	Svijetložuta
<b>R<sub>f</sub></b>	0,82
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	251,10
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,44 (s, 1H, arom.), 7,95 (d, <i>J</i> = 8,37 Hz, 2H, arom.), 7,86 (dd, <i>J</i> = 7,71, 1,2 Hz, 1H, arom.), 7,68 - 7,78 (m, 2H, arom.), 7,41 - 7,58 (m, 4H, arom.).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,2; 158,5; 154,6; 145,8; 136,5; 134,4; 134,1, 130,4; 130,3; 129,2; 126,8; 125,4; 118,7; 116,8.

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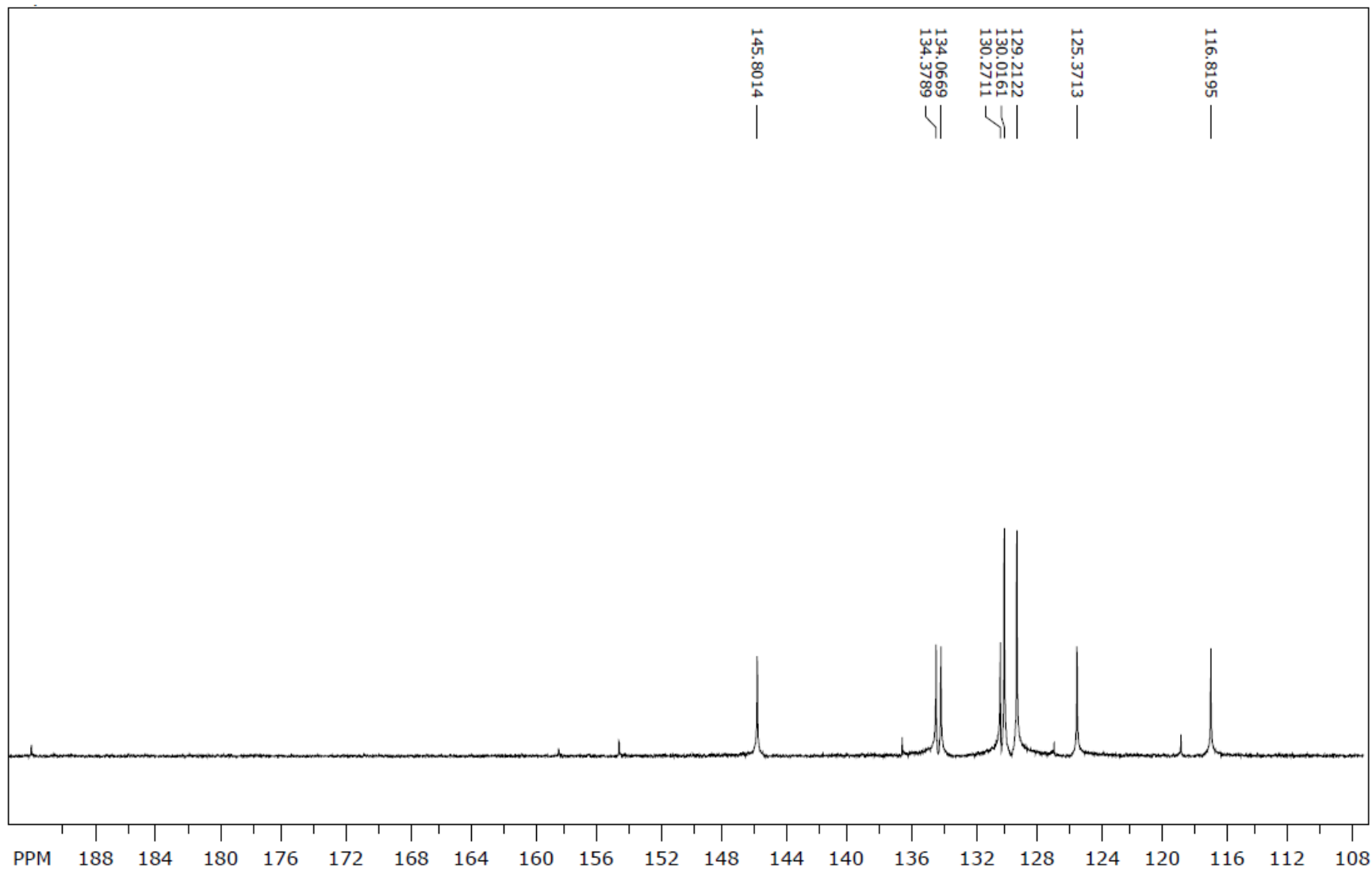
### Maseni spektar (3a)



**<sup>1</sup>H NMR spektr (3a)**



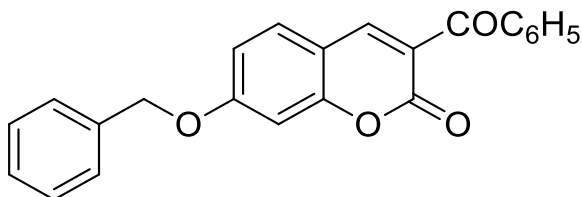
**<sup>13</sup>C NMR spektr (3a)**



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**3-benzoil-7-(benziloksi)-2H-kromen-2-on (3b)**

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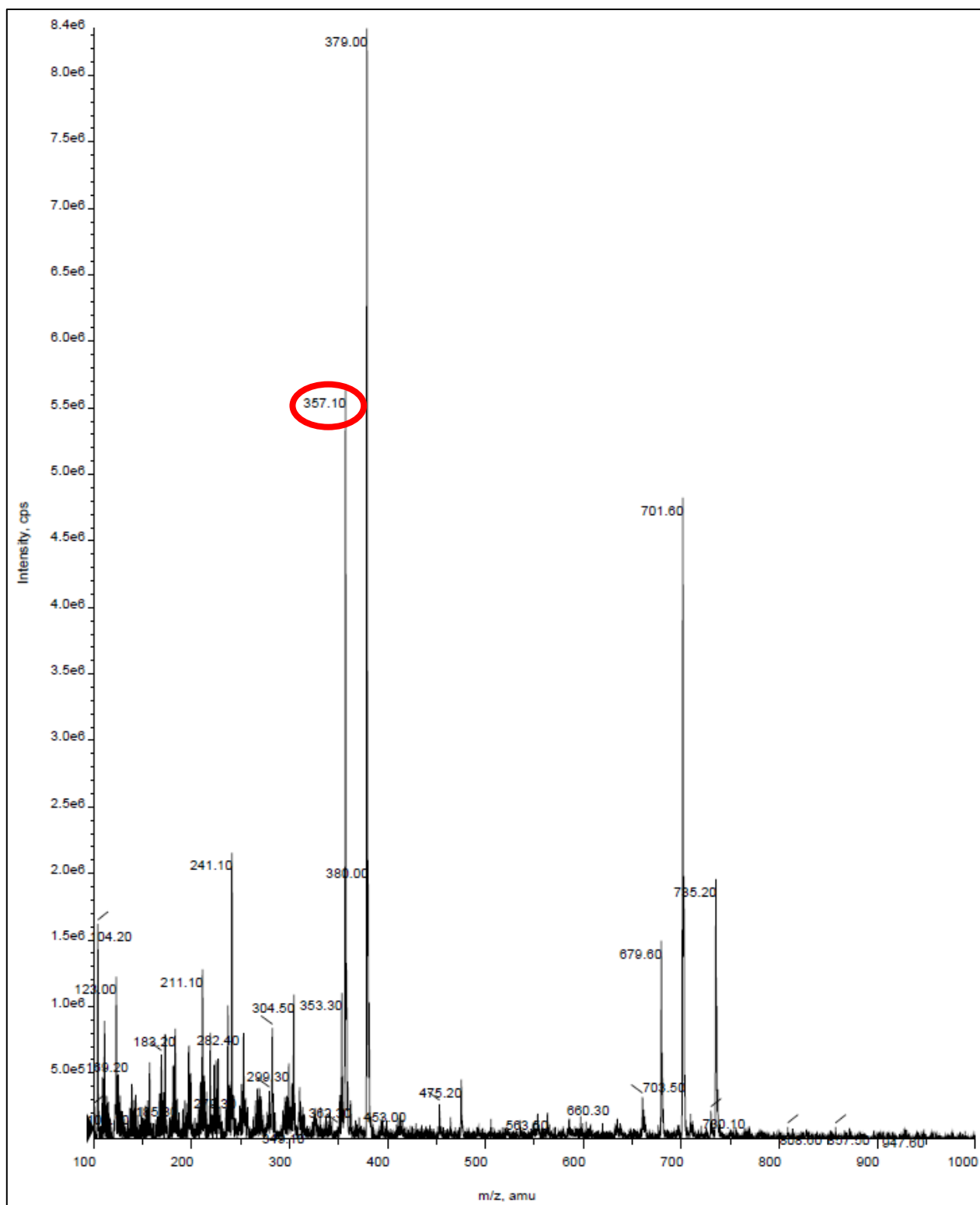
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<b>Reaktanti</b>	4-(benziloksi)salicilaldehid (0,64 mmol) i etil benzoilacetat (0,64 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	356,37 g/mol
<b>Molekulska formula</b>	C <sub>23</sub> H <sub>16</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	140 – 143 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,85
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	357,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,39 (s, 1H, coum.), 7,90 (dd, <i>J</i> = 7,92, 1,02 Hz, 2H, arom.), 7,81 (d, <i>J</i> = 8,70 Hz, 1H, arom.), 7,67 - 7,69 (m, 1H, arom.), 7,53 - 7,55 (m, 2H, arom.), 7,50 (d, <i>J</i> = 7,26 Hz, 2H, arom.), 7,41 - 7,44 (m, 2H, arom.), 7,36 - 7,38 (m, 1H, arom.), 7,19 (d, <i>J</i> = 2,28 Hz, 1H, arom.), 7,11 (dd, <i>J</i> = 8,70, 2,40 Hz, 1H, arom.), 5,29 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 191,0; 163,0; 158,2; 156,3; 146,2; 136,5; 136,0; 133,5; 131,2; 129,4; 128,6; 128,5; 128,2; 127,9; 122,4; 113,7; 111,9; 101,5; 70,1.

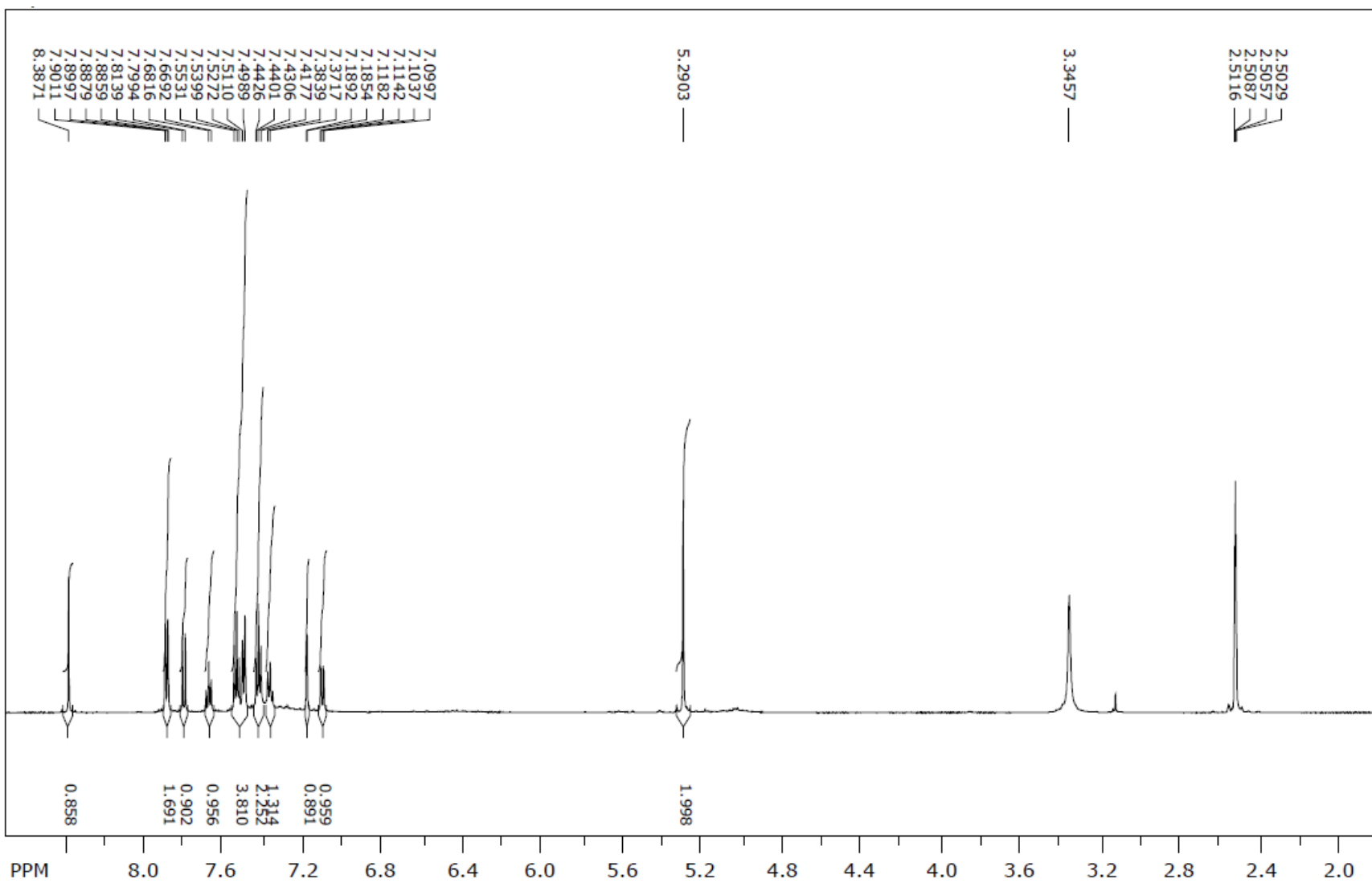
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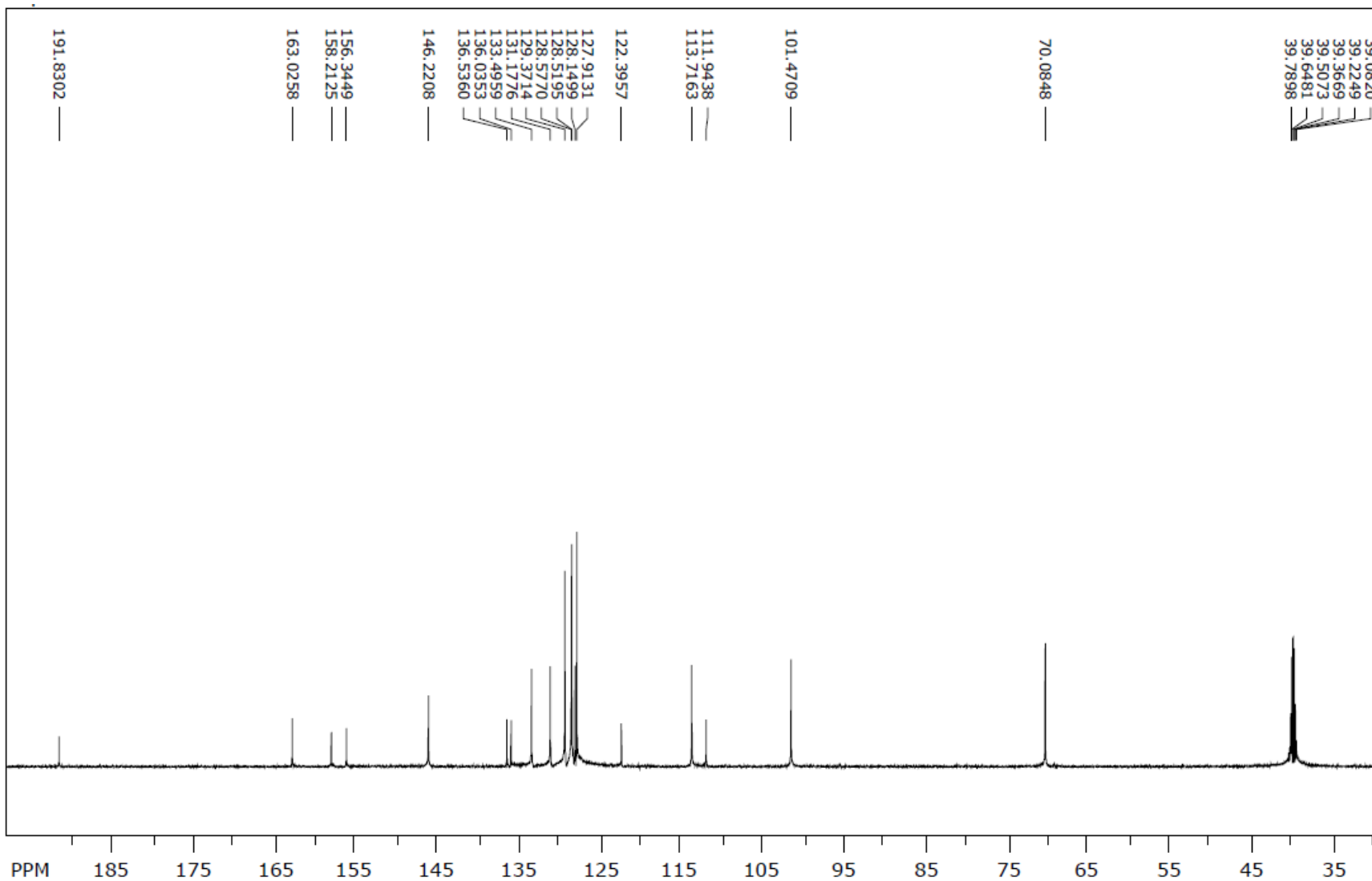
### Maseni spektar (3b)



**<sup>1</sup>H NMR spektr (3b)**



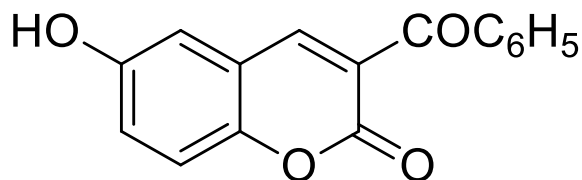
**<sup>13</sup>C NMR spektr (3b)**



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**3-benzoil-6-hidroksi-2H-kromen-2-on (3c)**

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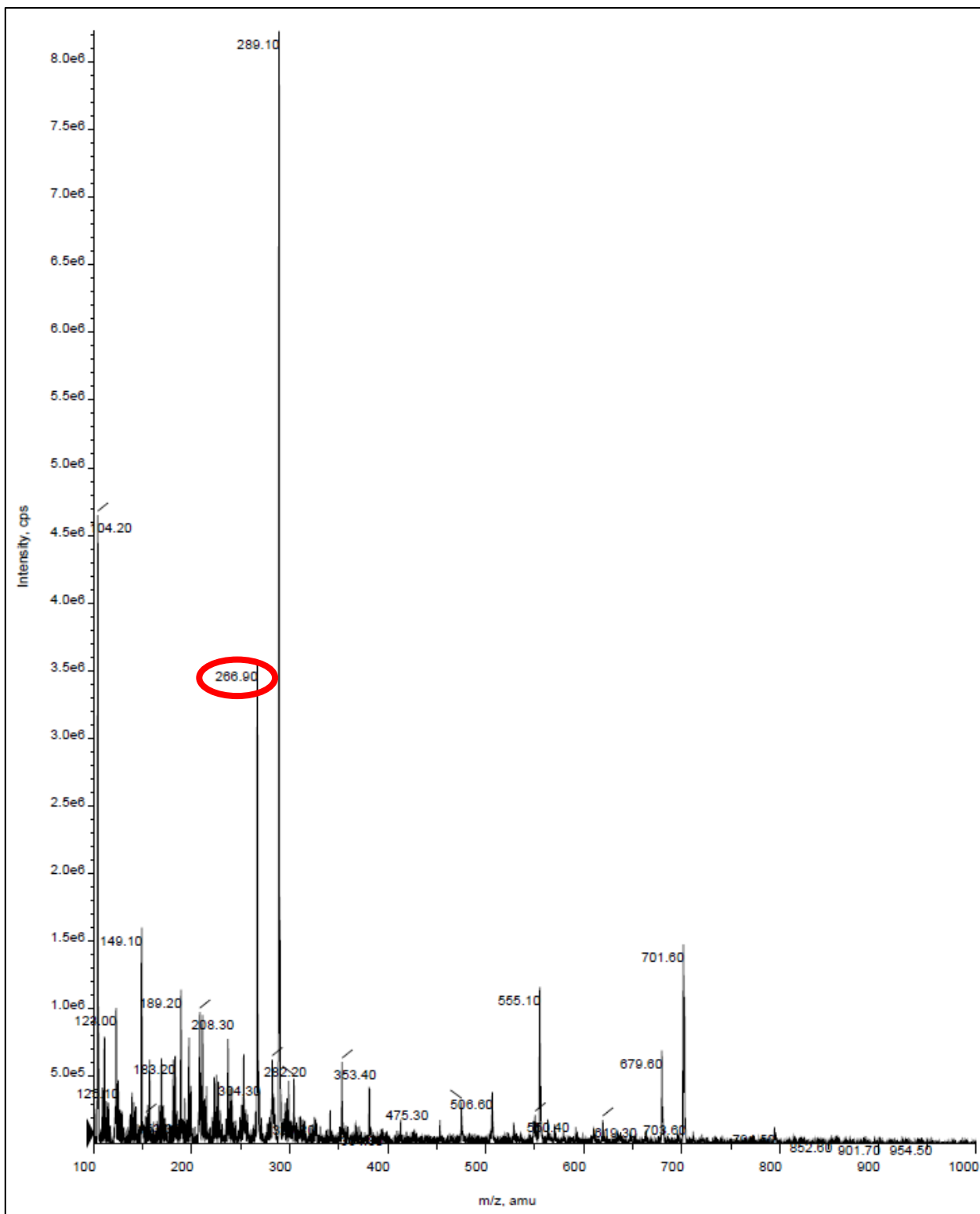


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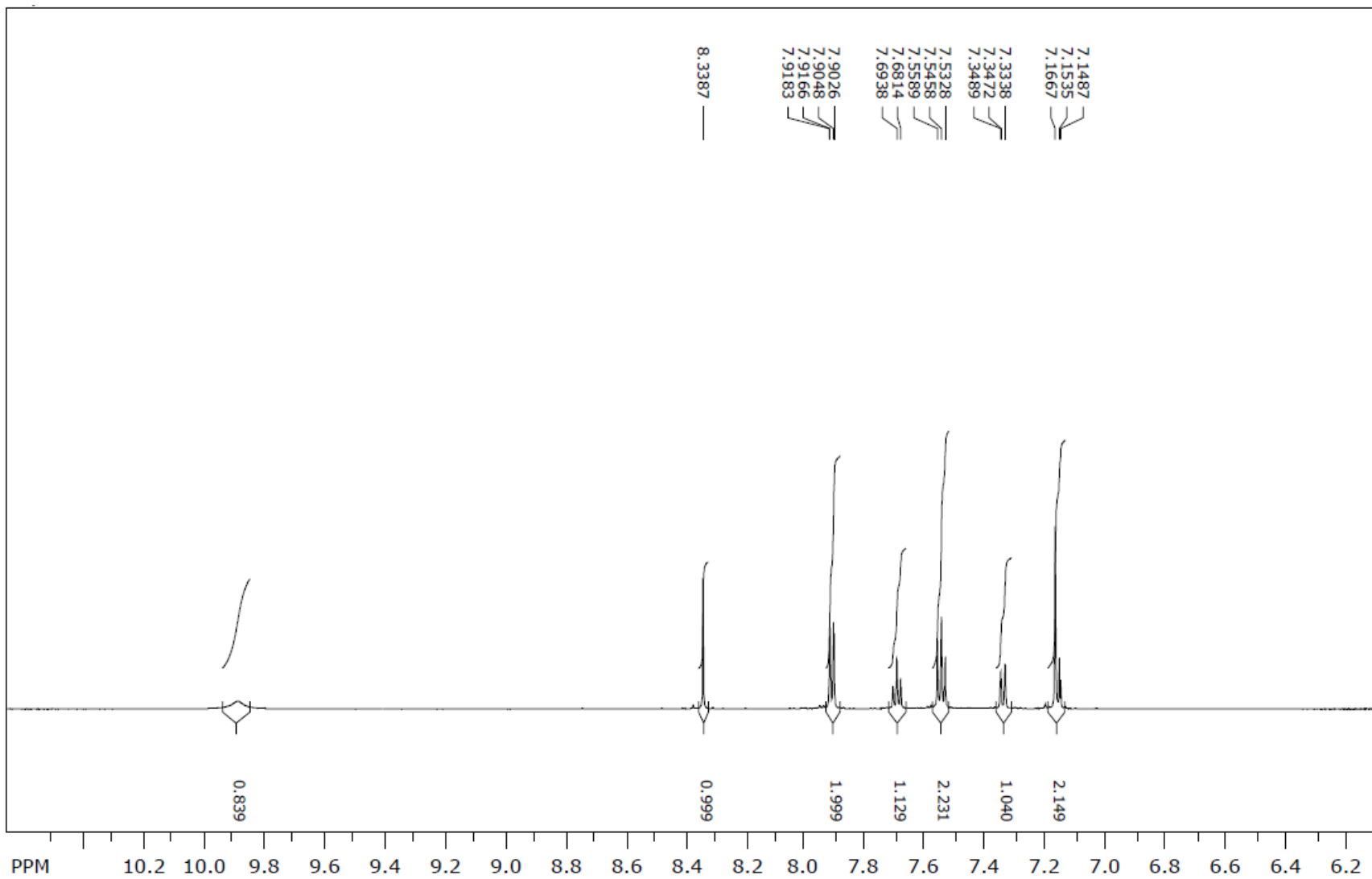
<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (1,3 mmol) i etil benzoilacetat (1,3 mmol)
<b>Metoda pročiščavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	266,24 g/mol
<b>Molekulska formula</b>	C <sub>16</sub> H <sub>10</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	227 – 230 °C (lit. 224 – 225 °C, Secci i sur., 2011)
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,52
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	266,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,88 (s, 1H, OH), 8,34 (s, 1H, coum.), 7,91 (dd, <i>J</i> = 8,10, 1,17 Hz, 2H, arom.), 7,68 - 7,71 (m, 1H, arom.), 7,53 - 7,56 (m, 2H, arom.), 7,34 (d, 1H, <i>J</i> = 9,06 Hz, arom.), 7,17 (s, 1H, arom.), 7,15 (d, <i>J</i> = 2,88 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 191,9; 158,2; 154,0; 145,1; 136,1; 133,9; 129,6; 128,7; 126,4; 121,6; 118,7; 117,2; 113,5.

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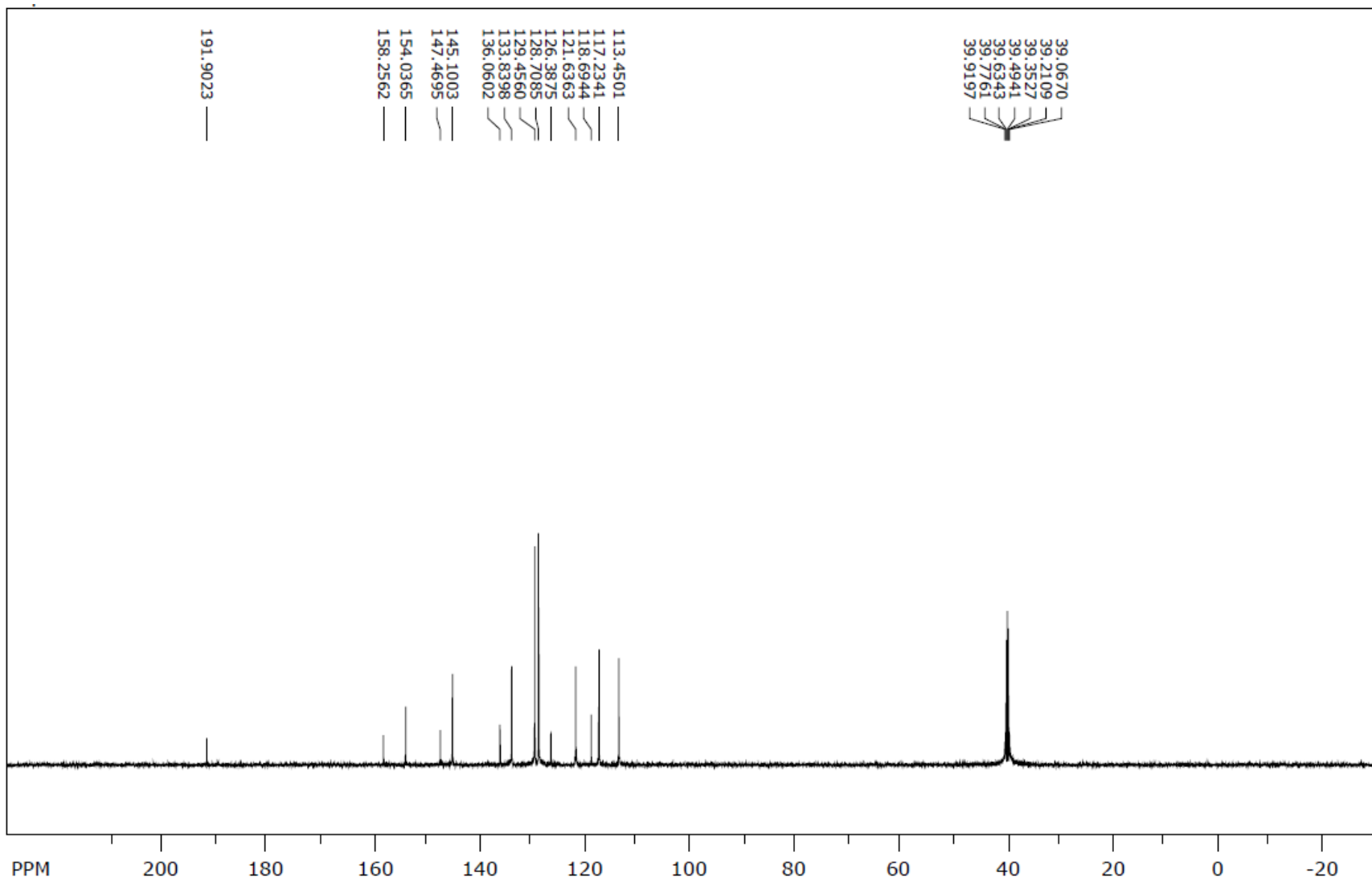
### Maseni spektar (3c)



# <sup>1</sup>H NMR spektr (3c)



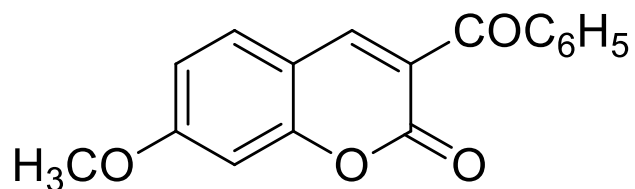
**<sup>13</sup>C NMR spektr (3c)**



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**3-benzoil-7-metoksi-2H-kromen-2-on (3d)**

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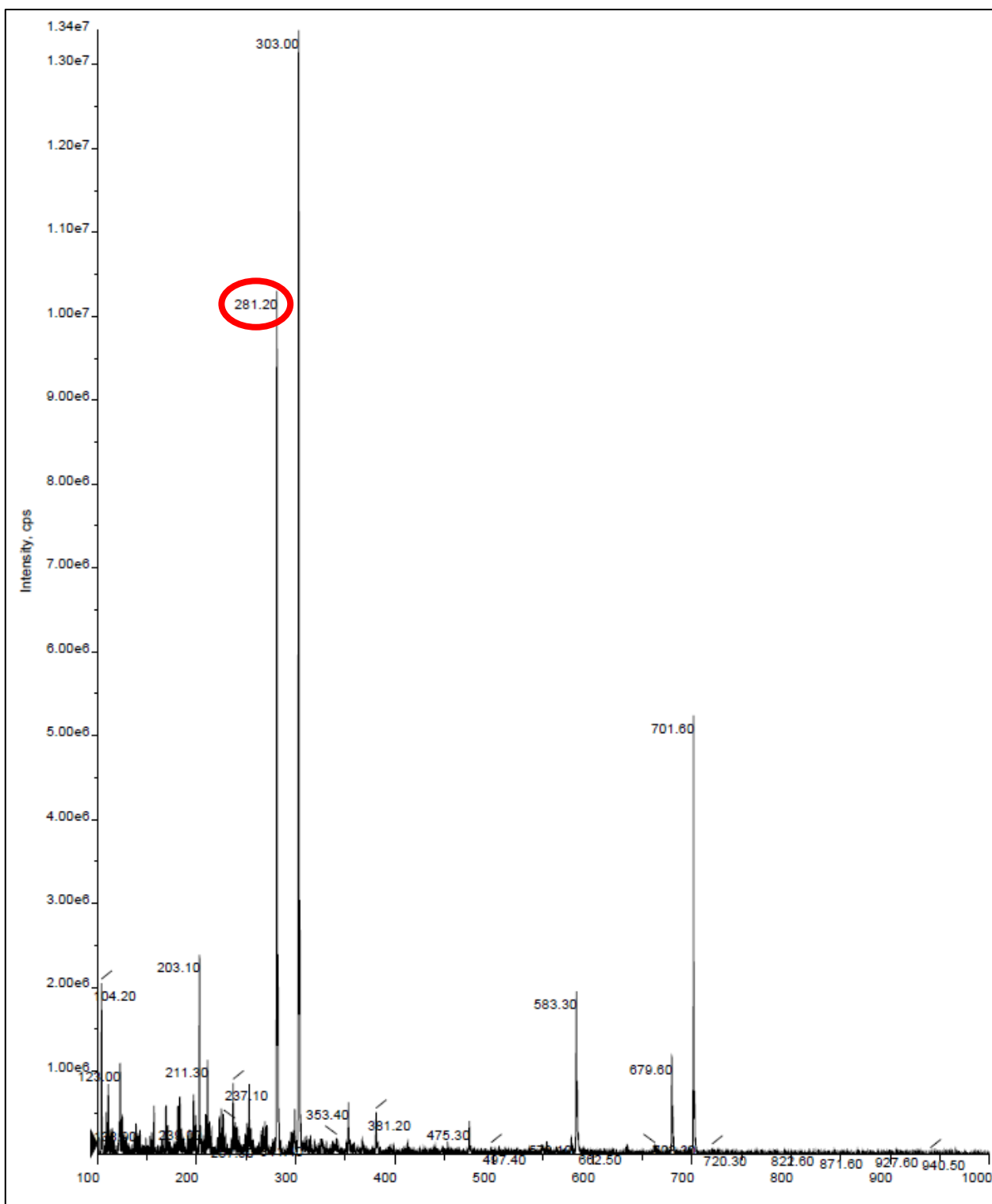
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<b>Reaktanti</b>	4-metoksibenzaldehid (1,2 mmol) i etil benzoilacetat (1,2 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	280,27 g/mol
<b>Molekulska formula</b>	C <sub>17</sub> H <sub>12</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	140 – 143 °C
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,75
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	281,20
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,40 (s, 1H, coum.), 7,89 (d, <i>J</i> = 7,32 Hz, 2H, arom.), 7,80 (d, <i>J</i> = 8,67 Hz, 1H, arom.), 7,68 (t, <i>J</i> = 7,29 Hz, 1H, arom.), 7,54 (t, <i>J</i> = 7,58 Hz, 2H, arom.), 7,10 (d, <i>J</i> = 2,04 Hz, 1H, arom.), 7,03 (dd, <i>J</i> = 8,64, 2,24 Hz, 1H, arom.), 3,91 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,3; 164,6; 158,7; 156,9; 146,7; 137,0; 133,9; 131,8; 130,1; 129,1; 122,7; 113,6; 112,3; 101,1; 56,5.

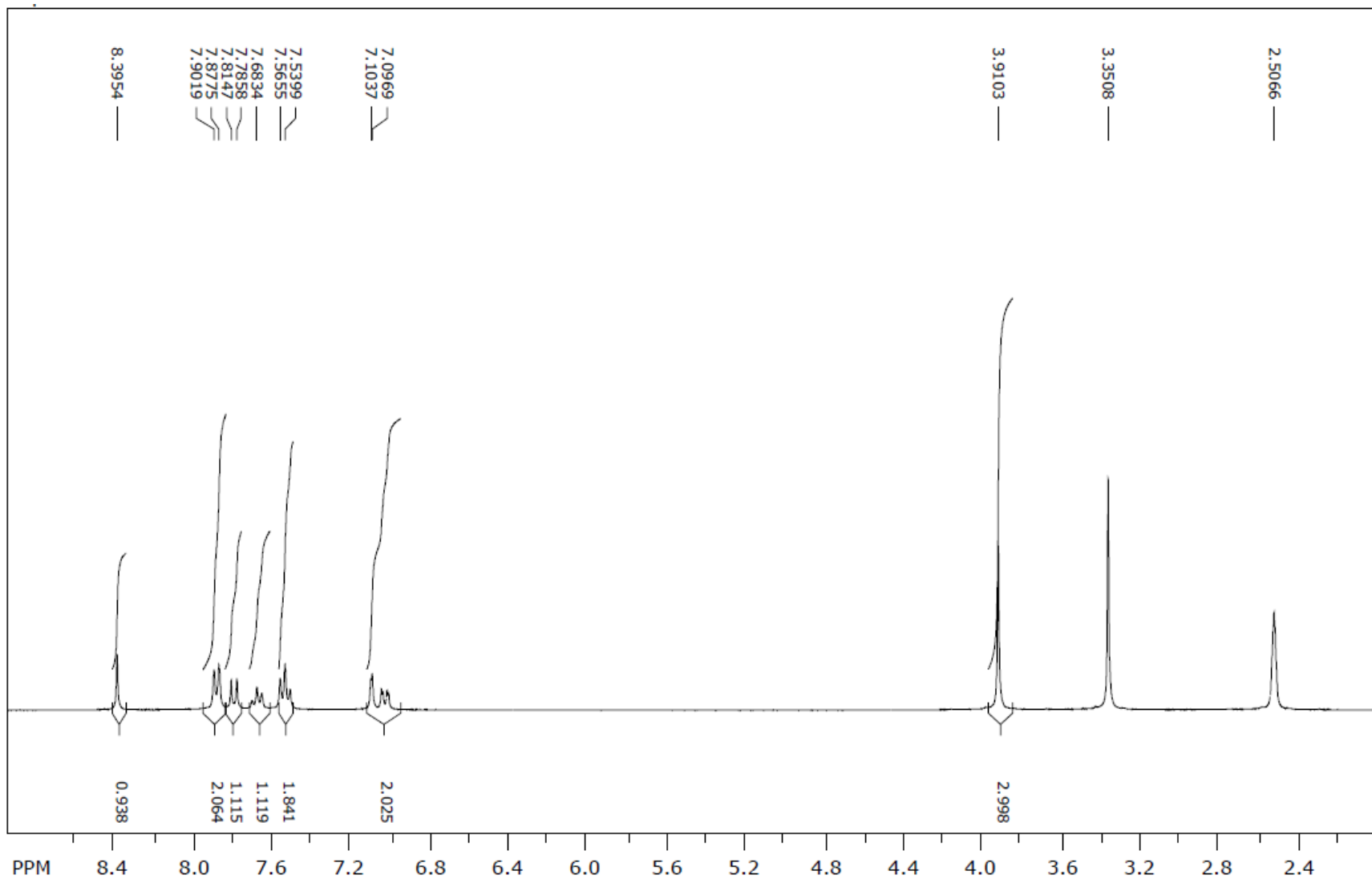
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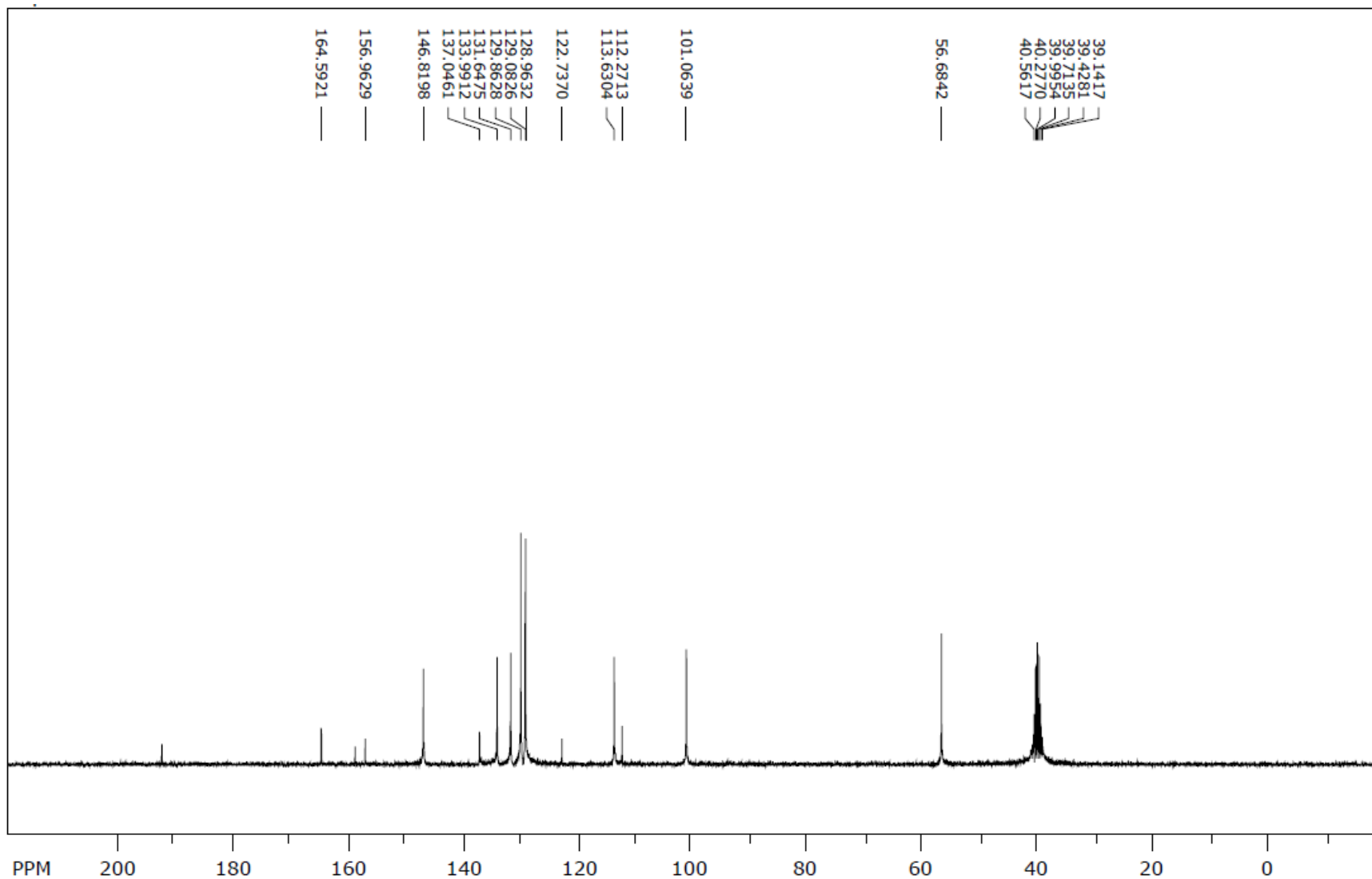
### Maseni spektar (3d)



**<sup>1</sup>H NMR spektr (3d)**



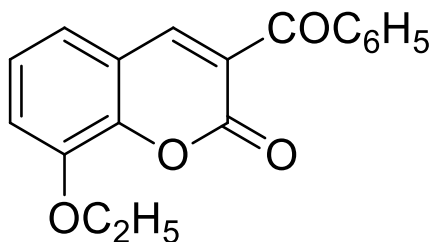
**<sup>13</sup>C NMR spektr (3d)**



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**3-benzoil-8-etoksi-2H-kromen-2-on (3e)**

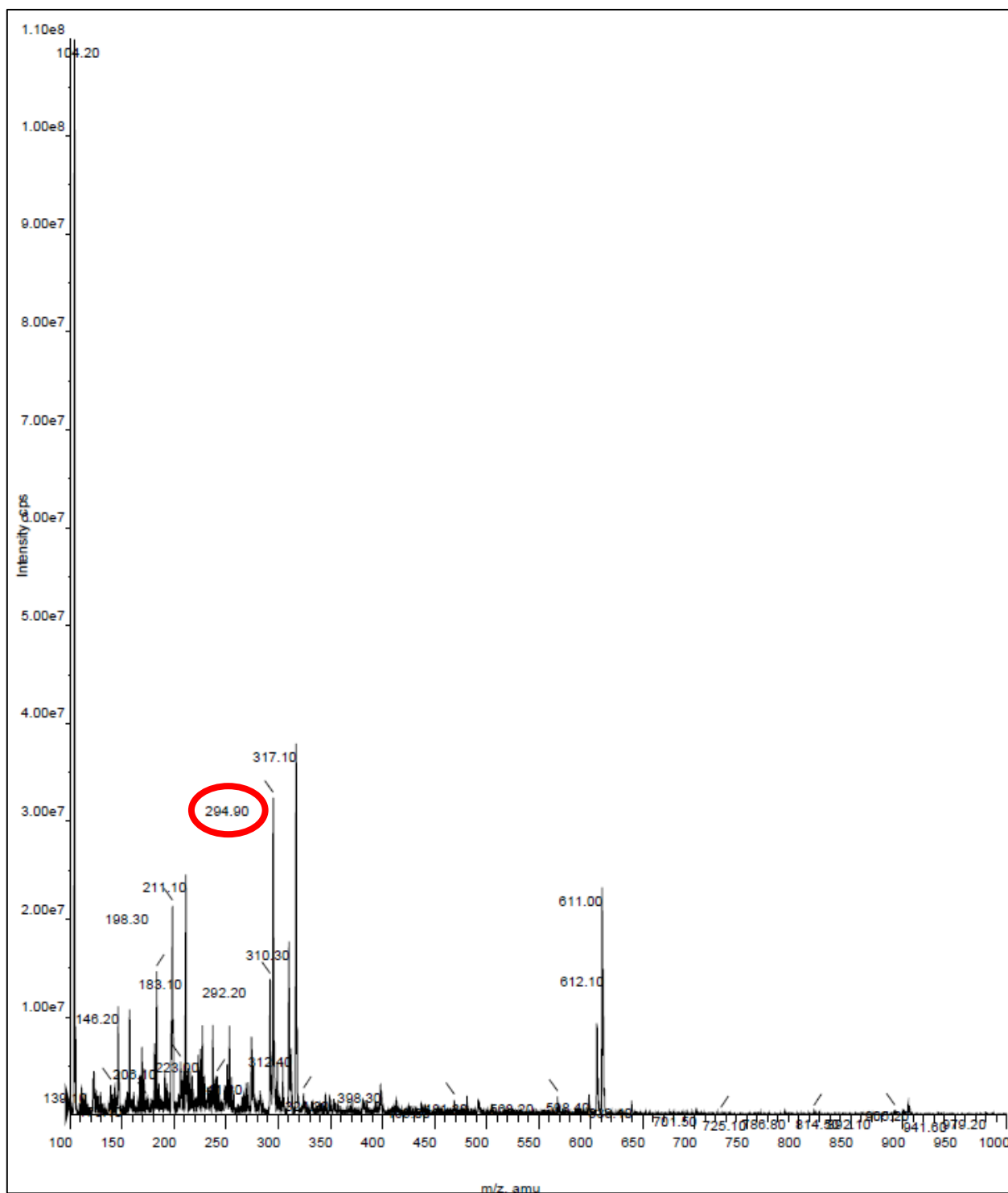
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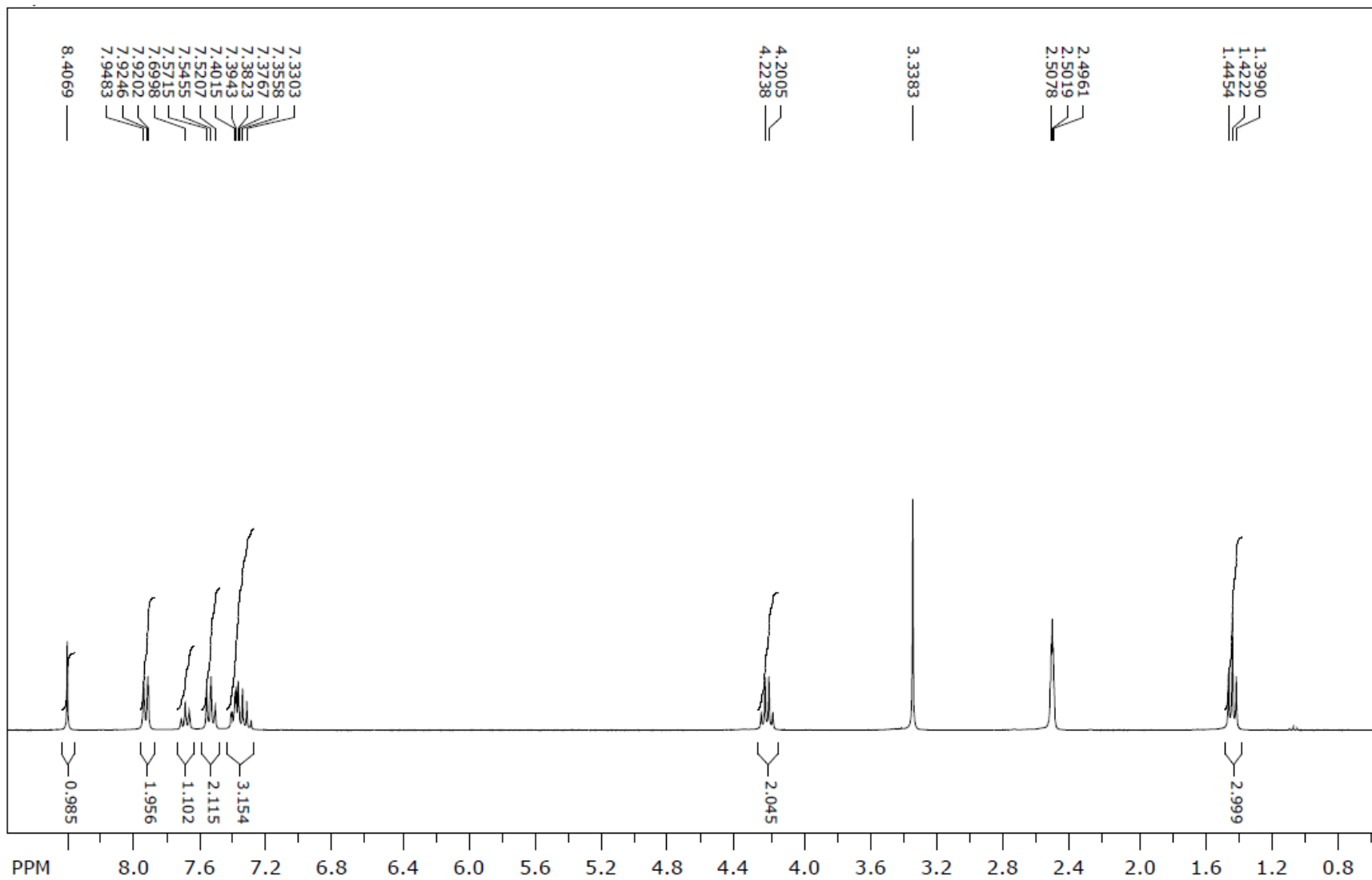
<b>Reaktanti</b>	3-etoksisalicilaldehid (1,2 mmol) i etil benzoilacetat (1,2 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	294,30 g/mol
<b>Molekulska formula</b>	C <sub>18</sub> H <sub>14</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	102-105 °C
<b>Boja kristala</b>	Svijetložuta
<b>R<sub>f</sub></b>	0,79
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	294,90
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,40 (s, 1H, coum.), 7,92 - 7,95 (m, 2H, arom.), 7,67 - 7,72 (m, 1H, arom.), 7,54 (t, <i>J</i> = 7,62 Hz, 2H, arom.), 7,30 - 7,42 (m, 3H, arom.), 4,21 (q, <i>J</i> = 6,96 Hz, 2H, CH <sub>2</sub> CH <sub>3</sub> ), 1,42 (t, <i>J</i> = 6,96 Hz, 3H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,2; 158,3; 146,1; 136,5; 134,4; 130,1; 130,0; 129,2; 126,9; 125,3; 121,2; 119,4; 117,0; 64,9; 15,1.

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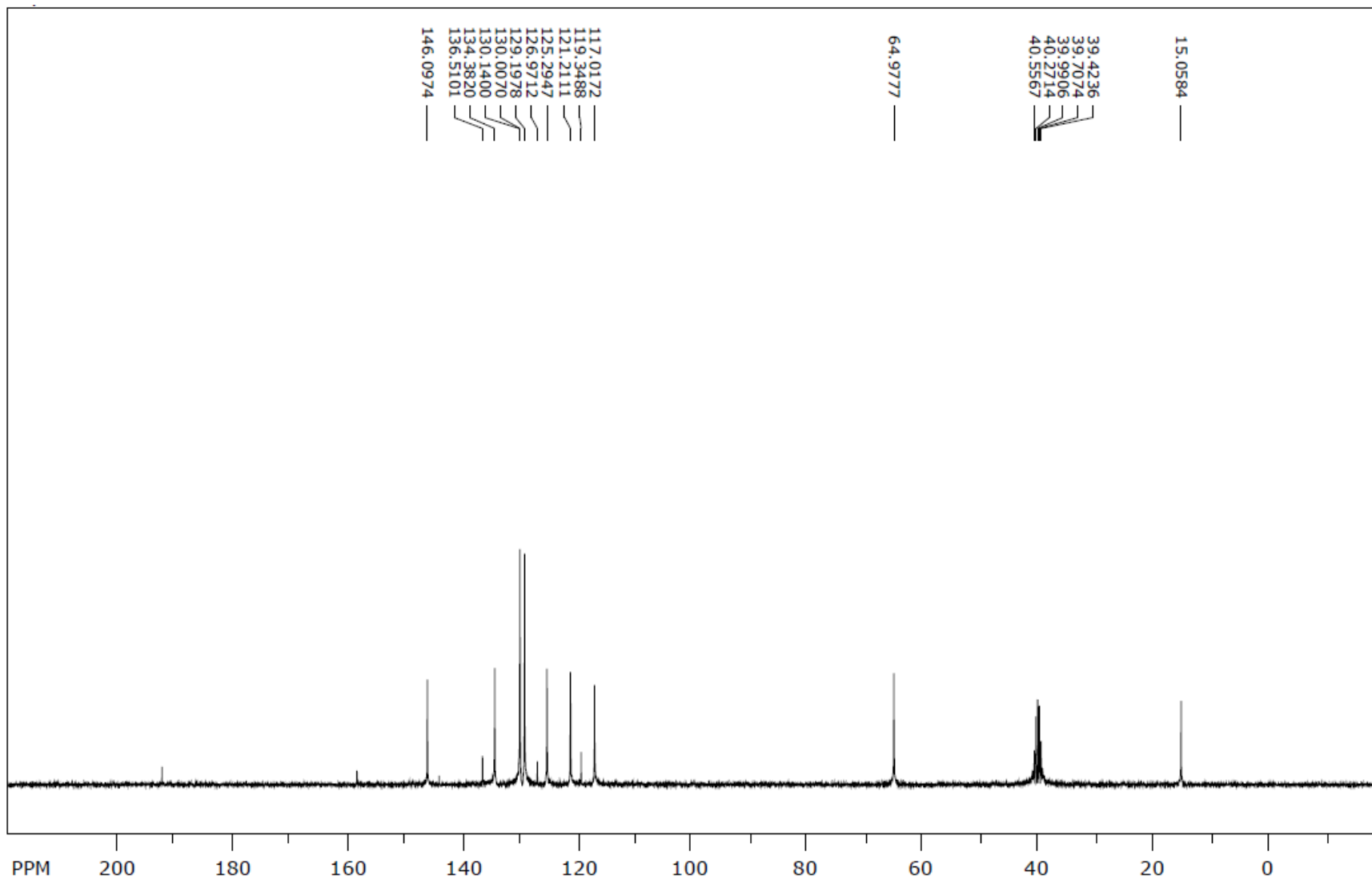
### Maseni spektar (3e)



# <sup>1</sup>H NMR spektr (3e)



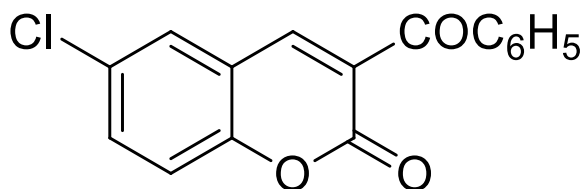
<sup>13</sup>C NMR spektr (3e)



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**3-benzoil-6-klor-2H-kromen-2-on (3f)**

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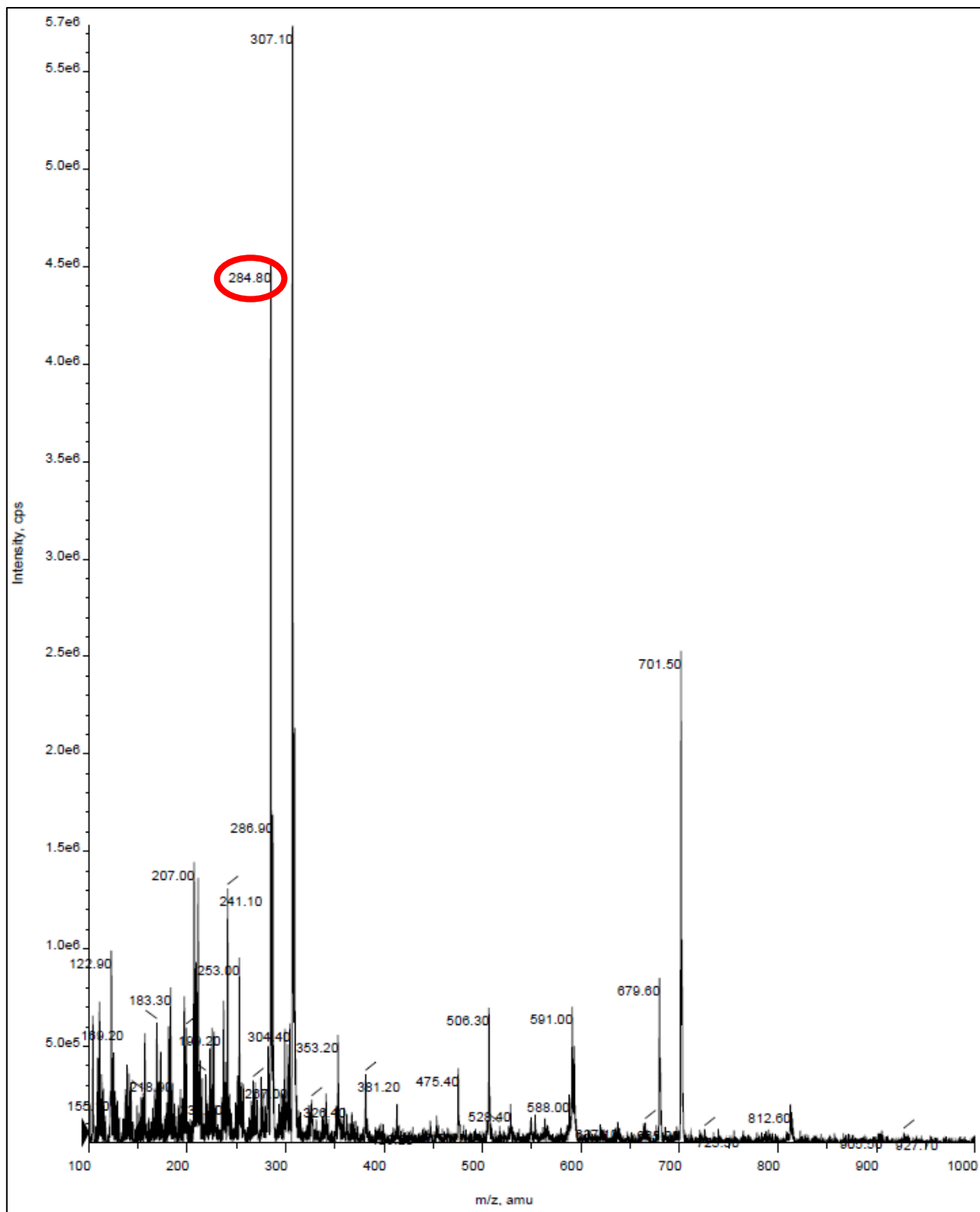
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<b>Reaktanti</b>	5-klorosalicilaldehid (1,2 mmol) i etil benzoilacetat (1,2 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	284,69 g/mol
<b>Molekulska formula</b>	C <sub>16</sub> H <sub>9</sub> ClO <sub>3</sub>
<b>Temperatura tališta</b>	150 -155 °C
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,88
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	284,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,37 (s, 1H, coum.), 7,98 (d, <i>J</i> = 2,52 Hz 1H, arom.), 7,95 (dd, <i>J</i> = 8,10, 1,02 Hz, 2H, arom.), 7,77 (dd, <i>J</i> = 8,94, 2,55 Hz, 1H, arom.), 7,70 – 7,72 (m, 1H, arom.), 7,54 – 7,57 (m, 3H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 191,3; 157,6; 152,8; 143,9; 135,8; 134,0; 132,9; 129,6; 128,7; 128,6; 127,4; 119,6.

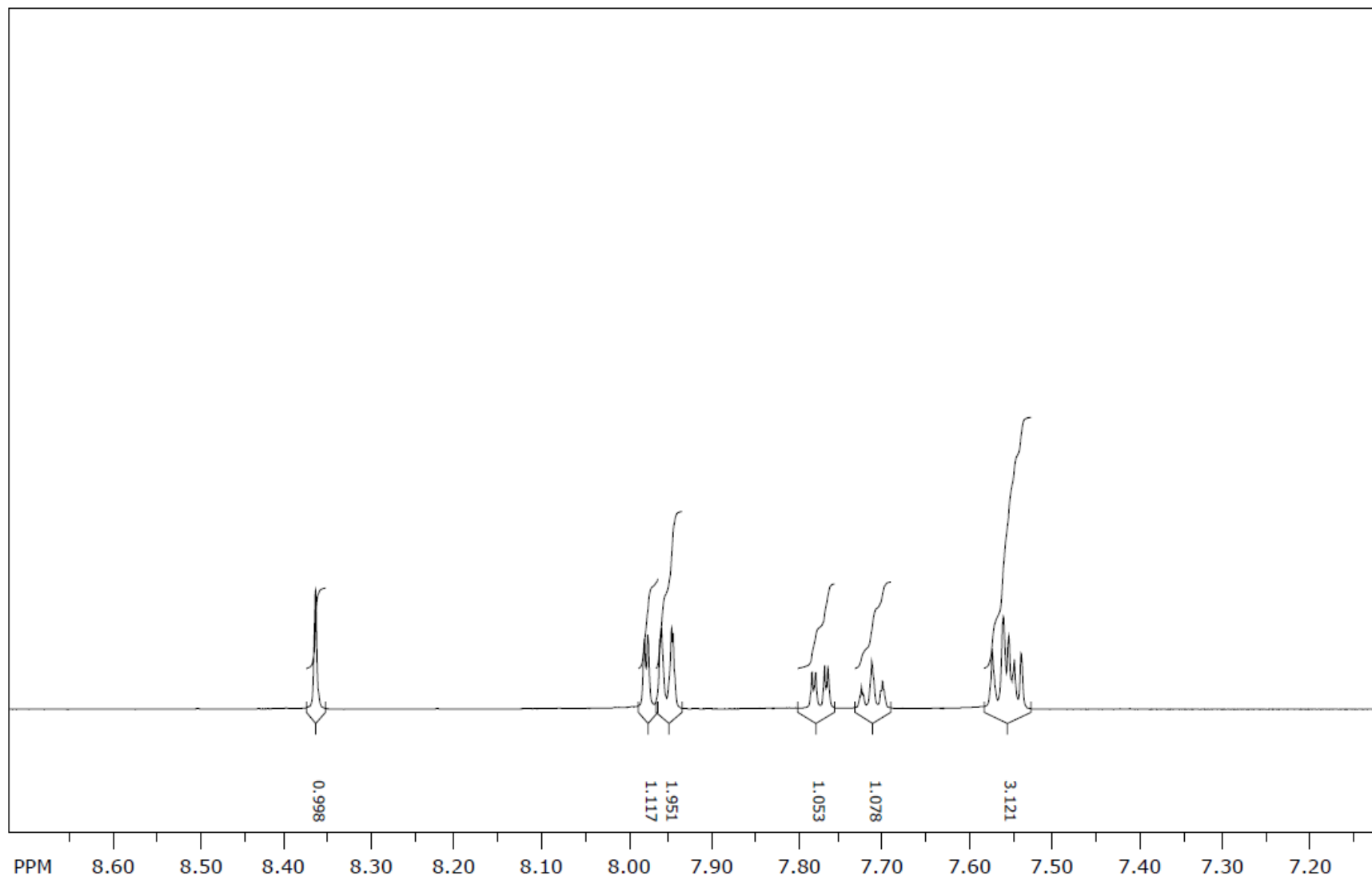
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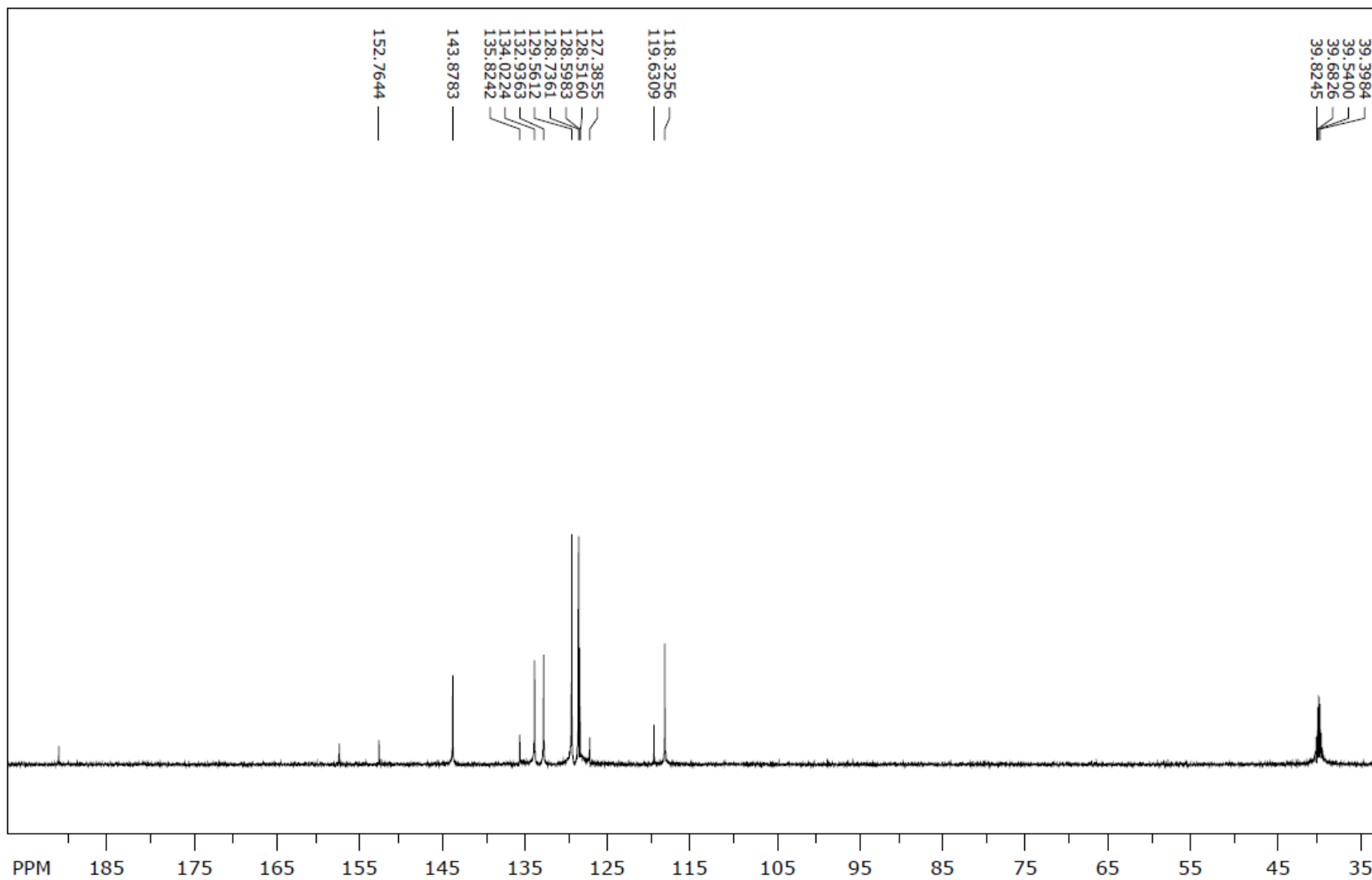
### Maseni spektar (3f)



<sup>1</sup>H NMR spektr (3f)



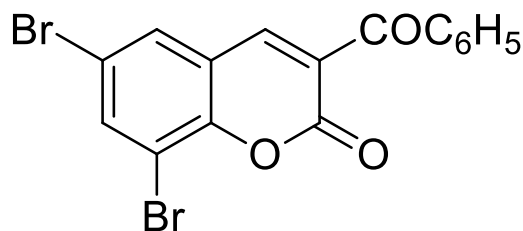
**<sup>13</sup>C NMR spektr (3f)**



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**3-benzoil-6,8-dibrom-2H-kromen-2-on (3g)**

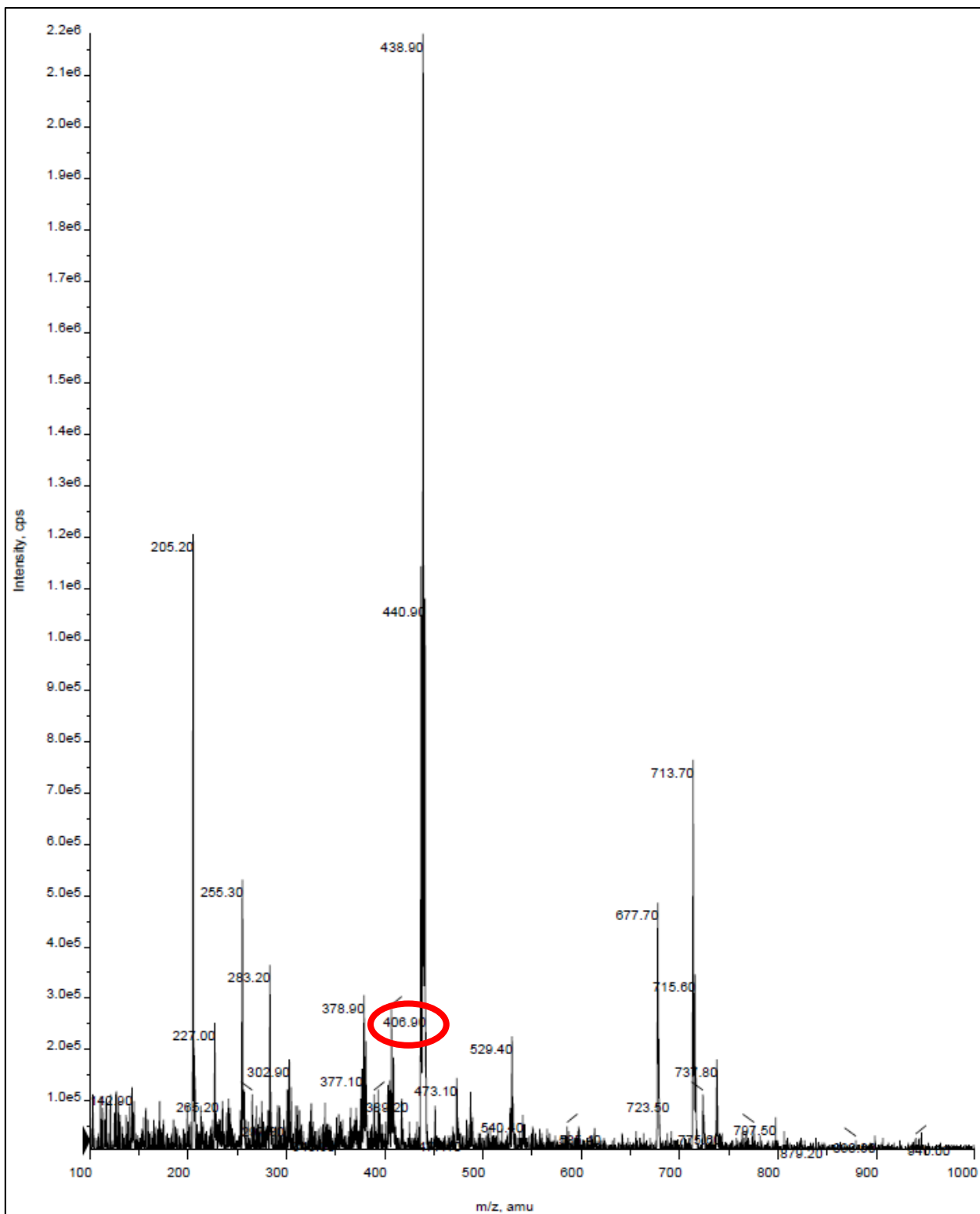
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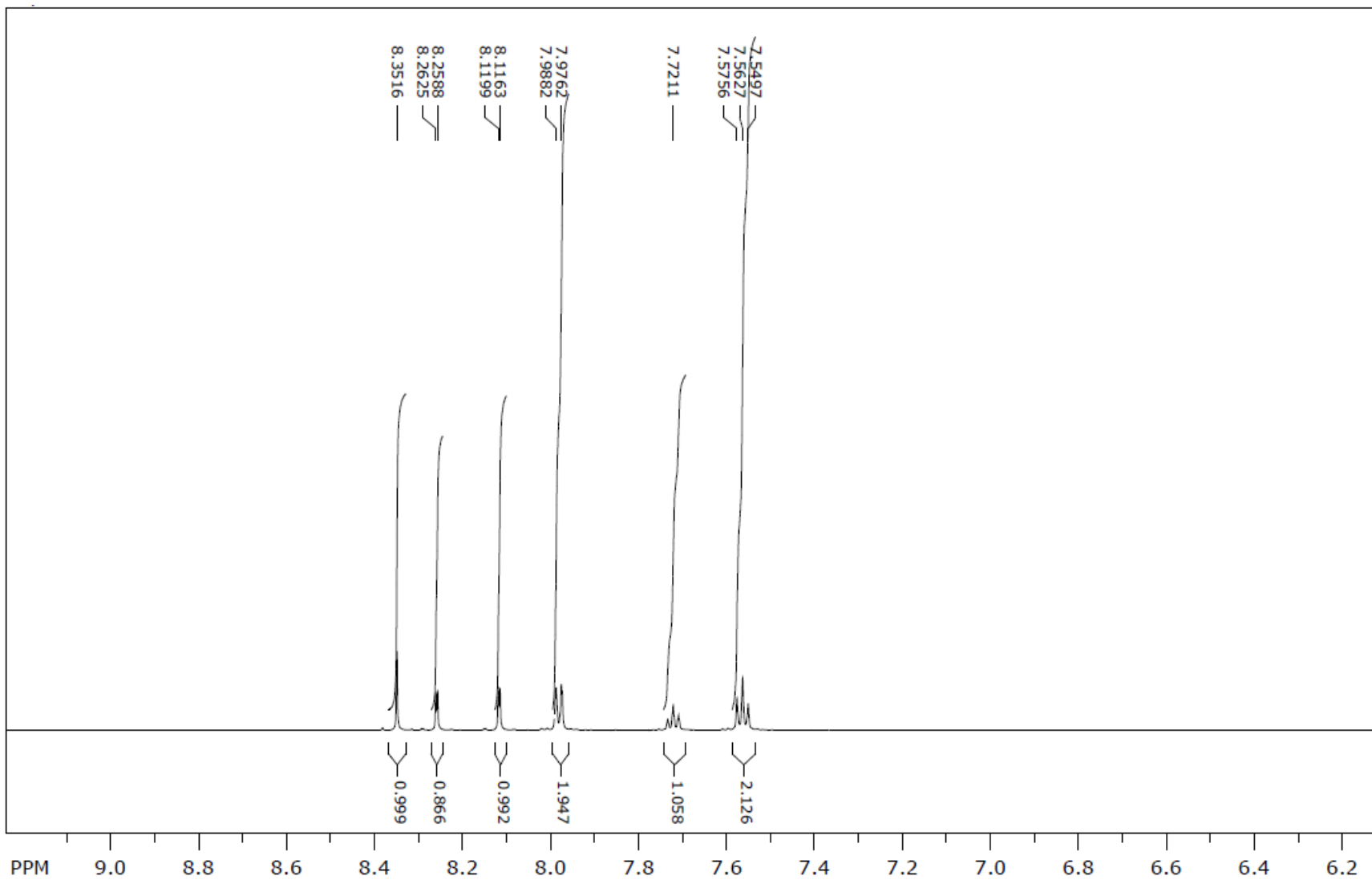
<b>Reaktanti</b>	3,5-dibromsalicilaldehid (1,2 mmol) i etil benzoilacetat (1,2 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	408,04 g/mol
<b>Molekulska formula</b>	C <sub>16</sub> H <sub>8</sub> Br <sub>2</sub> O <sub>3</sub>
<b>Temperatura tališta</b>	200 – 202 °C
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,88
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	406,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,35 (s, 1H, coum.), 8,26 (d, <i>J</i> = 2,22 Hz, 1H, arom.), 8,12 (d, <i>J</i> = 2,16 Hz, 1H, arom.), 7,98 (d, <i>J</i> = 7,20 Hz, 2H, arom.), 7,72 (t, <i>J</i> = 7,41 Hz, 1H, arom.), 7,56 (t, <i>J</i> = 7,77 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 191,0; 157,0; 150,1; 143,6; 137,6; 135,7; 134,2; 131,2; 139,7; 128,8; 127,9; 121,2; 116,3; 110,3.

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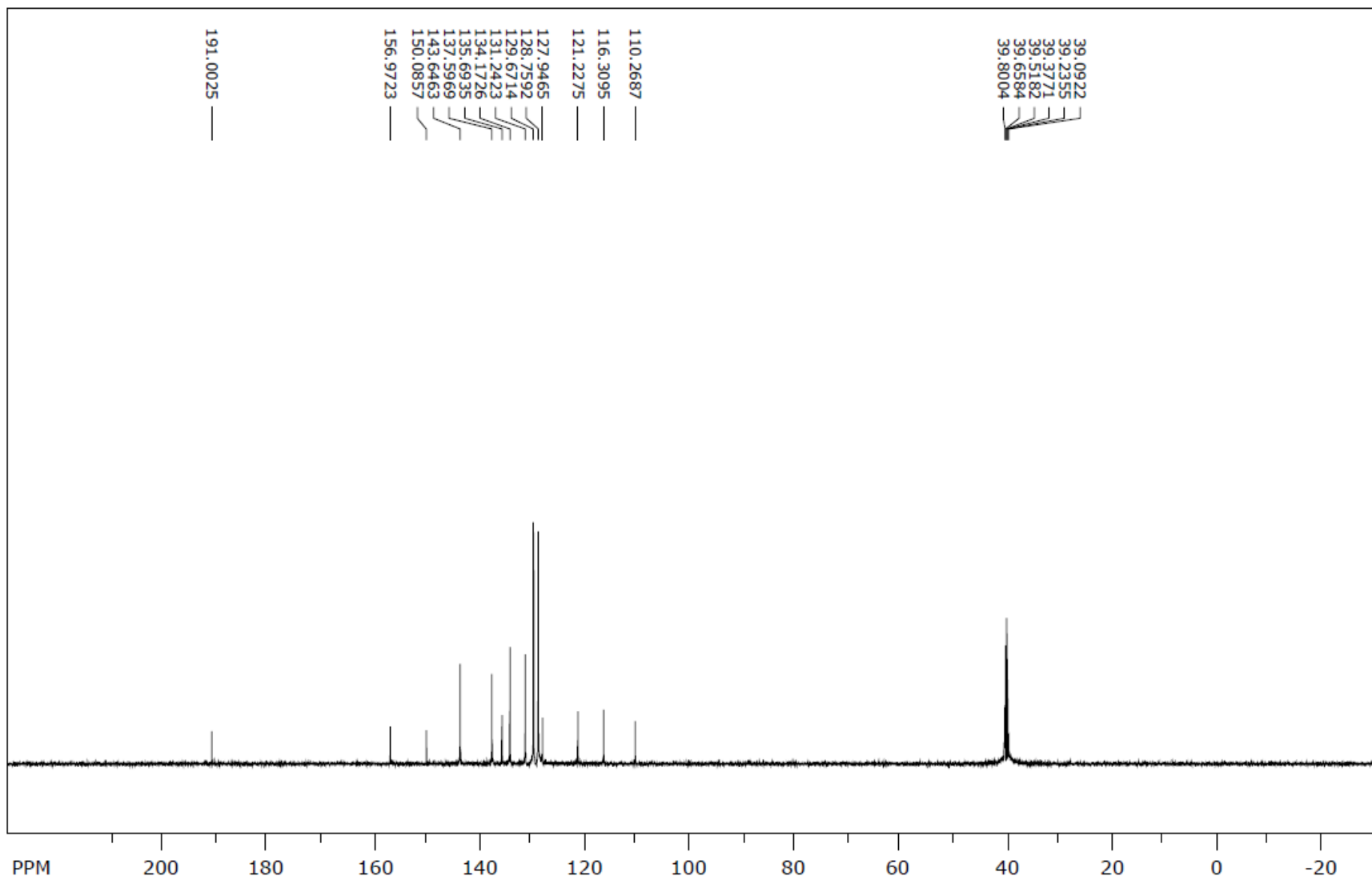
# Maseni spektar (3g)



<sup>1</sup>H NMR spektr (3g)



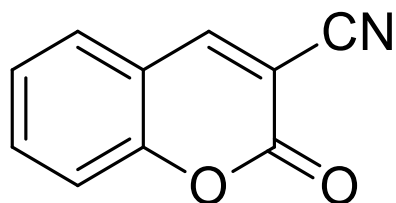
# <sup>13</sup>C NMR spektr (3g)



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**2-okso-2H-kromen-3-karbonitril (4a)**

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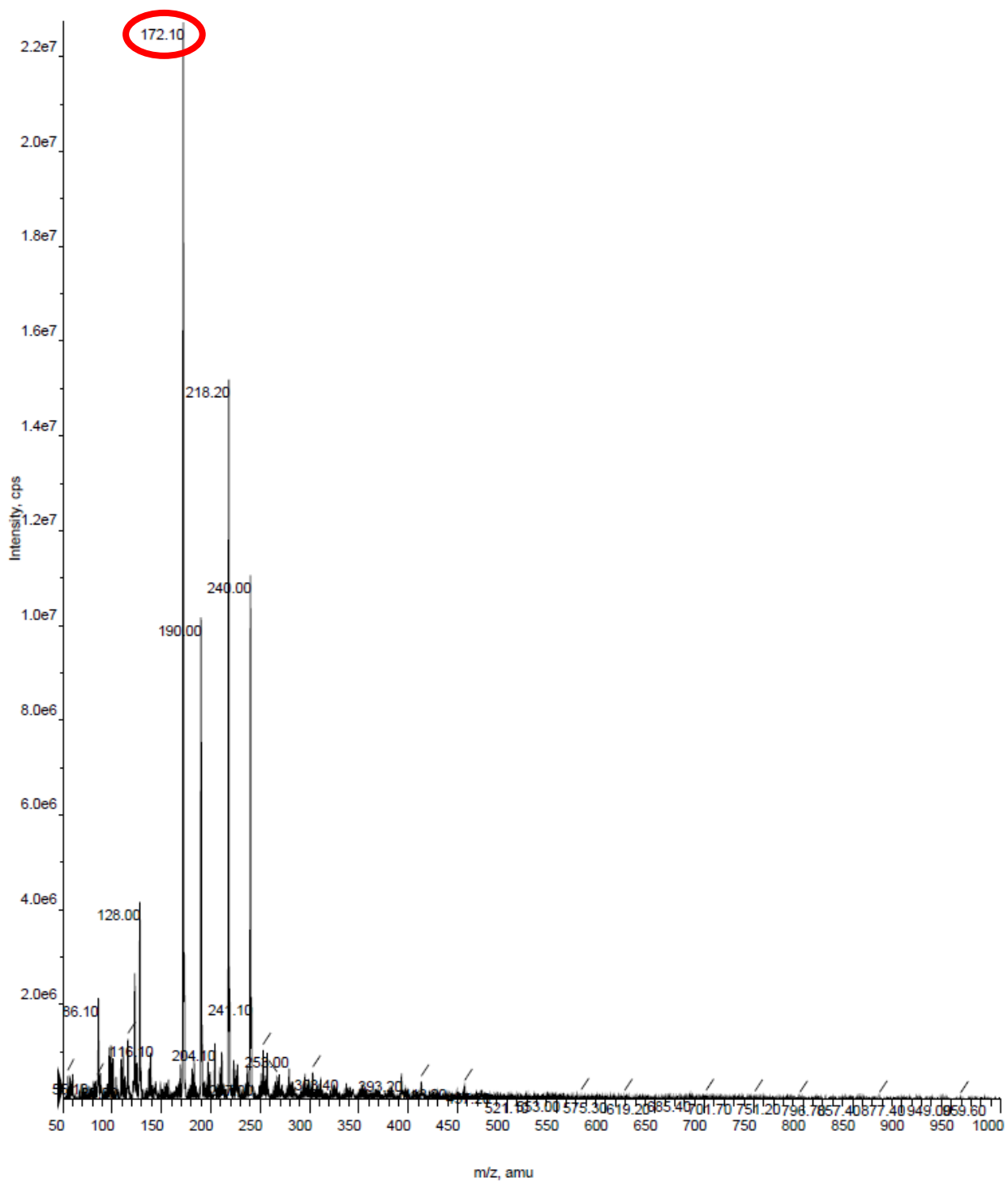


<b>Reaktanti</b>	Salicilaldehid (10 mmol) i etil cijanoacetat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	171,15 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>5</sub> NO <sub>2</sub>
<b>Temperatura tališta</b>	181 – 182 °C (lit. 175 – 176 °C, He i sur., 2014; 183 – 185 °C, Valizadeh i sur., 2011; 184 – 186 °C, Keshavarzipour i Tavakol, 2016)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,42
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	172,10
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,95 (s, 1H, coum.), 7,77 - 7,83 (m, 2H, arom.), 7,44 – 7,52 (m, 2H, arom.).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 157,3; 154,5; 135,9; 130,5; 125,9; 117,9; 117,3; 115,1; 102,6.

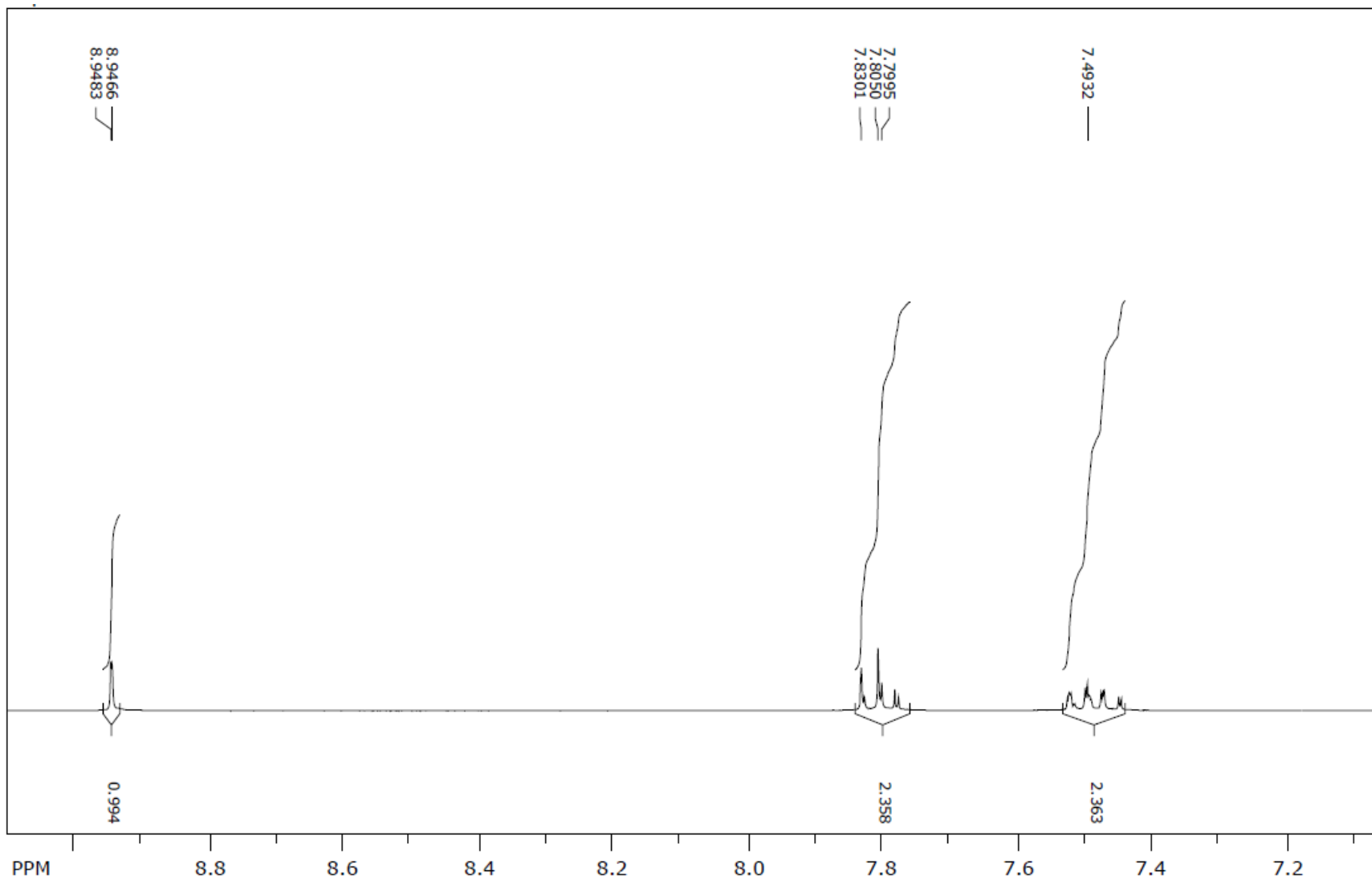
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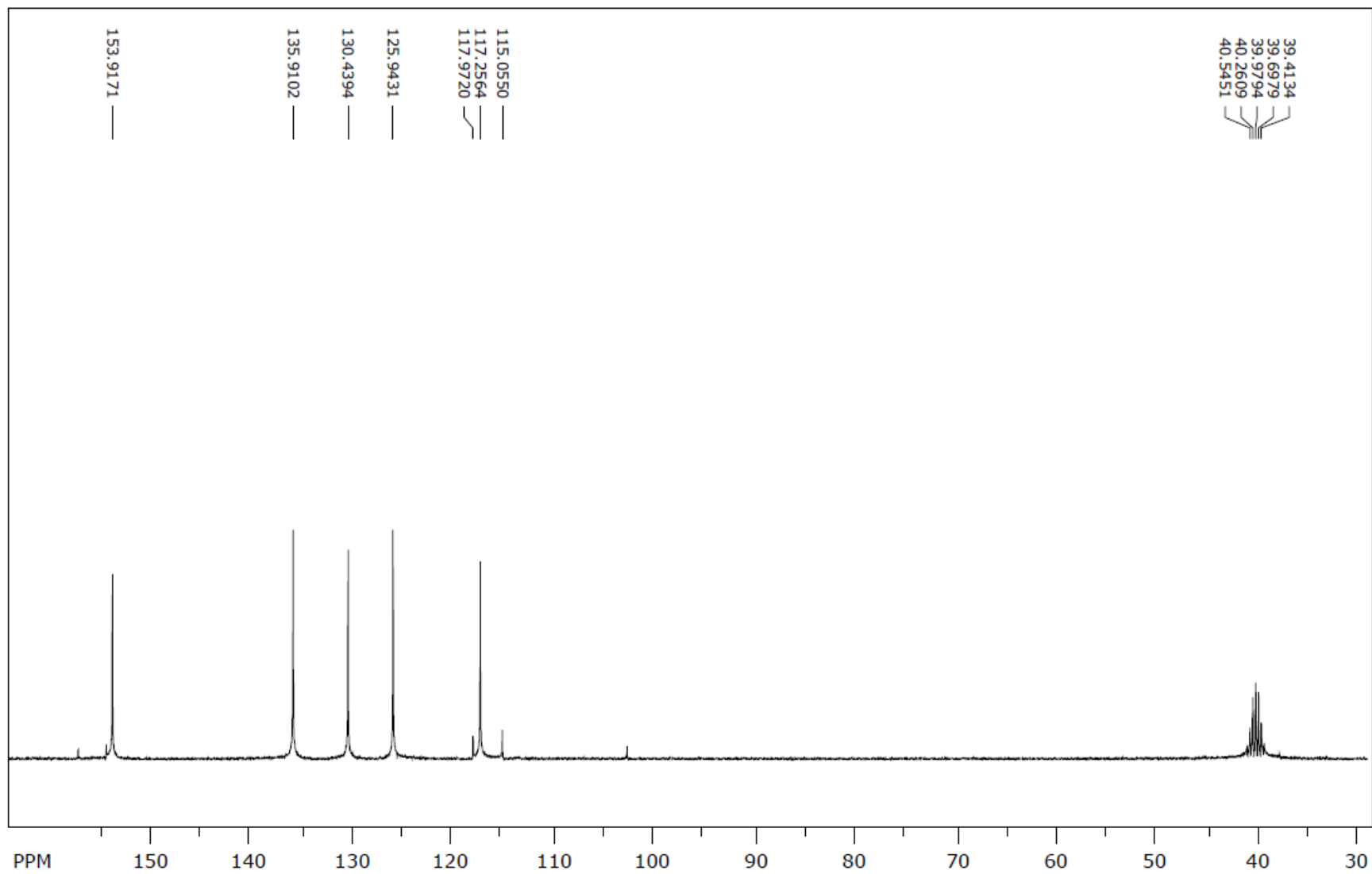
# Maseni spektar (4a)



**<sup>1</sup>H NMR spektr (4a)**



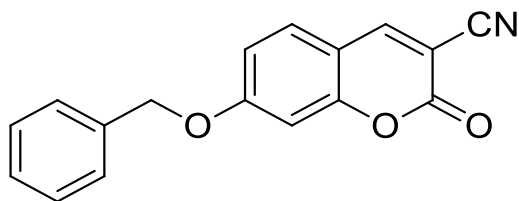
**<sup>13</sup>C NMR spektr (4a)**



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**7-(benziloksi)-2-okso-2H-kromen-3-karbonitril (4b)**

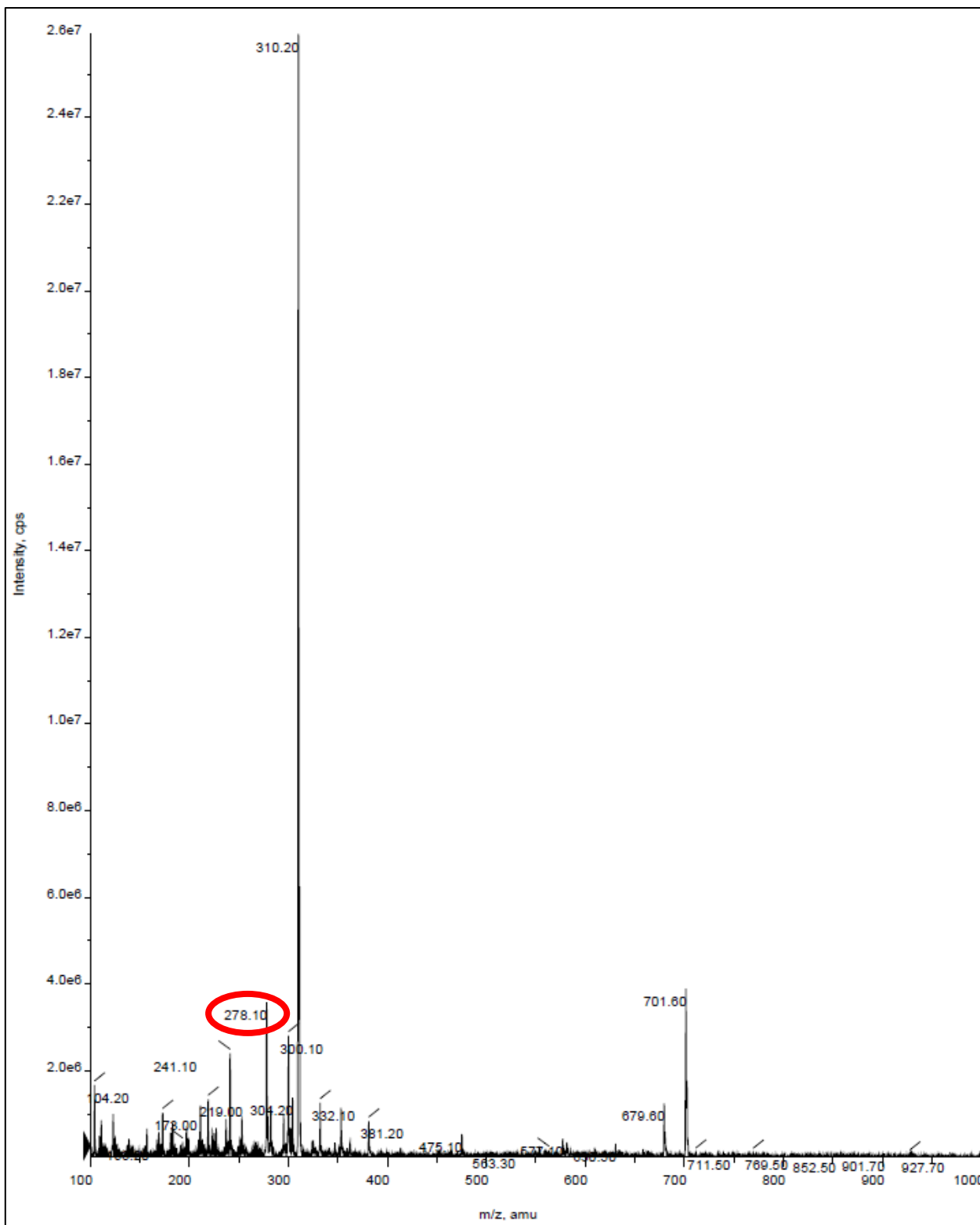
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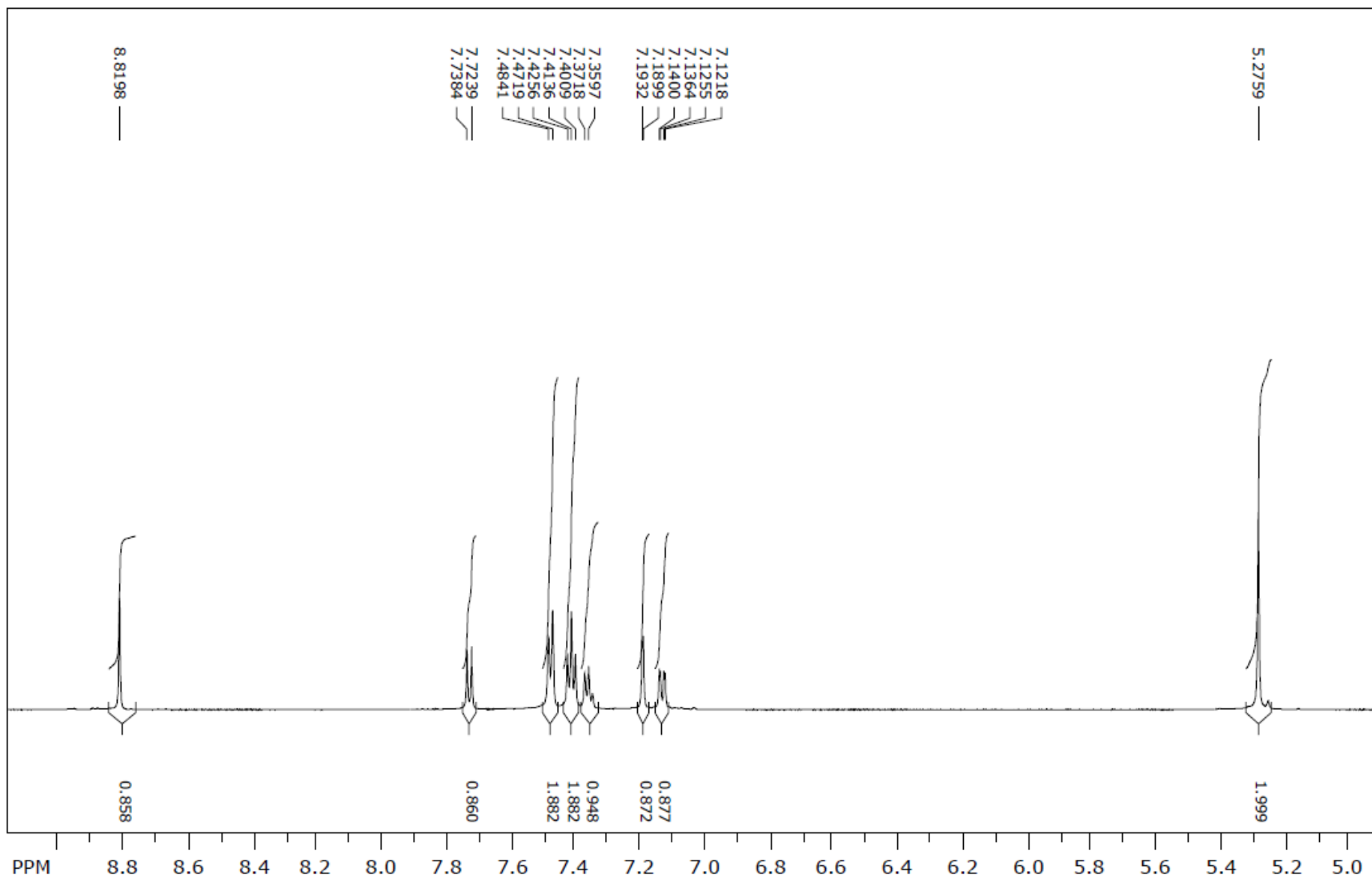
<b>Reaktanti</b>	4-(benziloksi)salicilaldehid (0,6 mmol) i etil cijanoacetat (0,6 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	277,27 g/mol
<b>Molekulska formula</b>	C <sub>17</sub> H <sub>11</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	174 – 176 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,88
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	278,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,82 (s, 1H, coum.), 7,73 (d, <i>J</i> = 8,70 Hz, 1H, arom.), 7,48 (d, <i>J</i> = 7,32 Hz, 2H, arom.), 7,41 (t, <i>J</i> = 7,41 Hz, 2H, arom.), 7,36 (t, <i>J</i> = 7,26 Hz, 1H, arom.), 7,19 (d, <i>J</i> = 1,98 Hz, 1H, arom.), 7,13 (dd, 1H, <i>J</i> = 8,70, 2,19 Hz, arom.), 5,28 (s, 2H, -CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 164,4; 157,3; 156,4; 153,1; 135,8; 131,3; 128,7; 128,2; 127,9; 114,9; 114,4; 111,4; 101,9; 97,6; 70,4.

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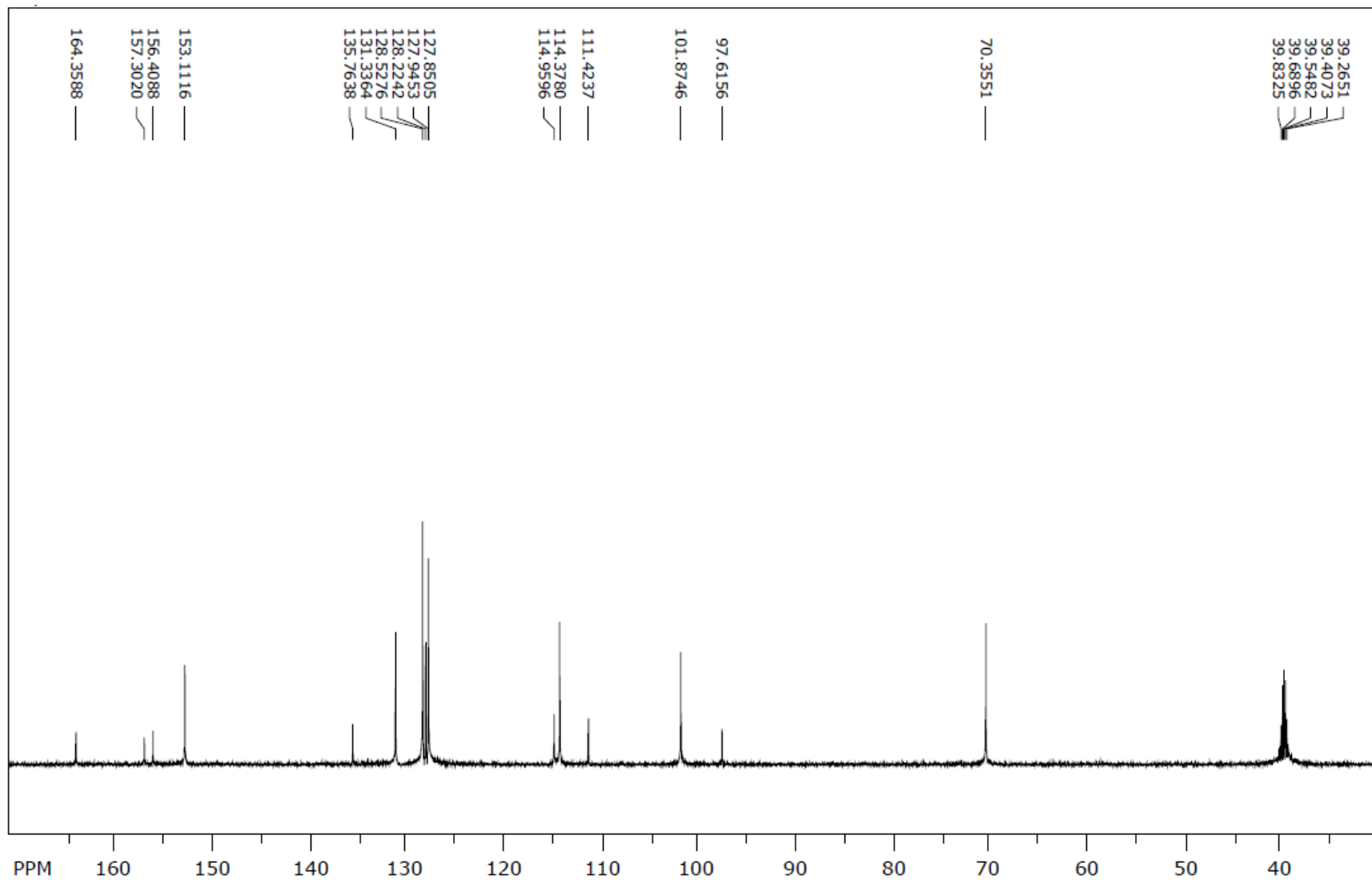
### Maseni spektar (4b)



<sup>1</sup>H NMR spektr (4b)



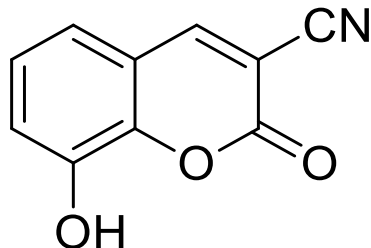
**<sup>13</sup>C NMR spektr (4b)**



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**8-hidroksi-2-okso-2H-kromen-3-karbonitril (4c)**

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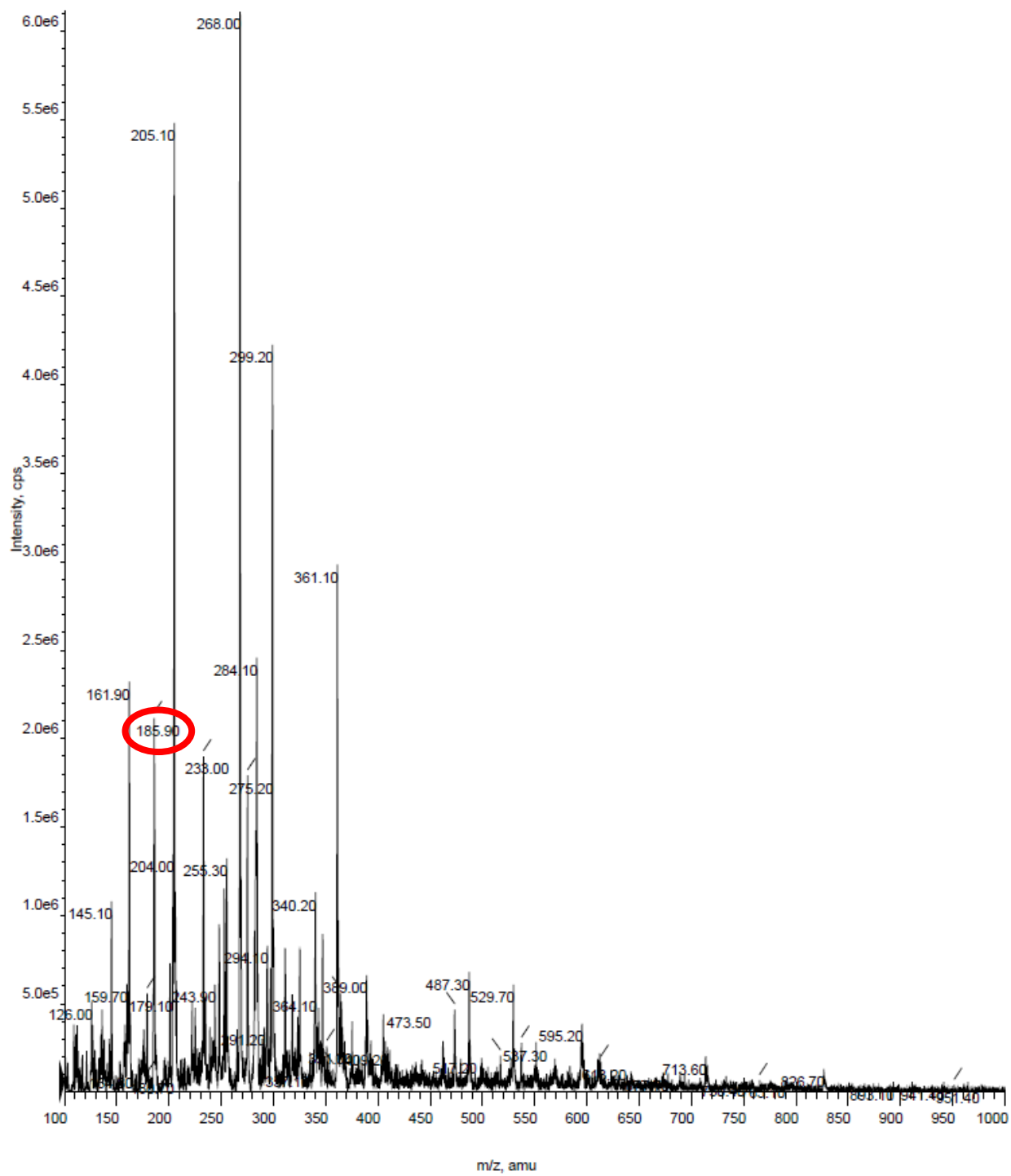


<b>Reaktanti</b>	2,3-dihidroksibenzaldehid (10 mmol) i etil cijanoacetat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	187,15 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>5</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	228 – 230 °C (lit. 228 – 230 °C, Valizadeh i sur., 2011)
<b>Boja kristala</b>	Tamno smeđa
<b>R<sub>f</sub></b>	0,69
<b>LC/MS/MS m/z (M-)</b>	185,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,55 (s, 1H, OH), 8,89 (s, 1H, arom.), 7,26 (t, <i>J</i> = 3,36, 2,58 Hz, 2H, arom.), 7,21 – 7,23 (m, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 156,8; 153,9; 144,8; 142,6; 125,4; 121,6; 119,8; 118,4; 114,7; 101,9.

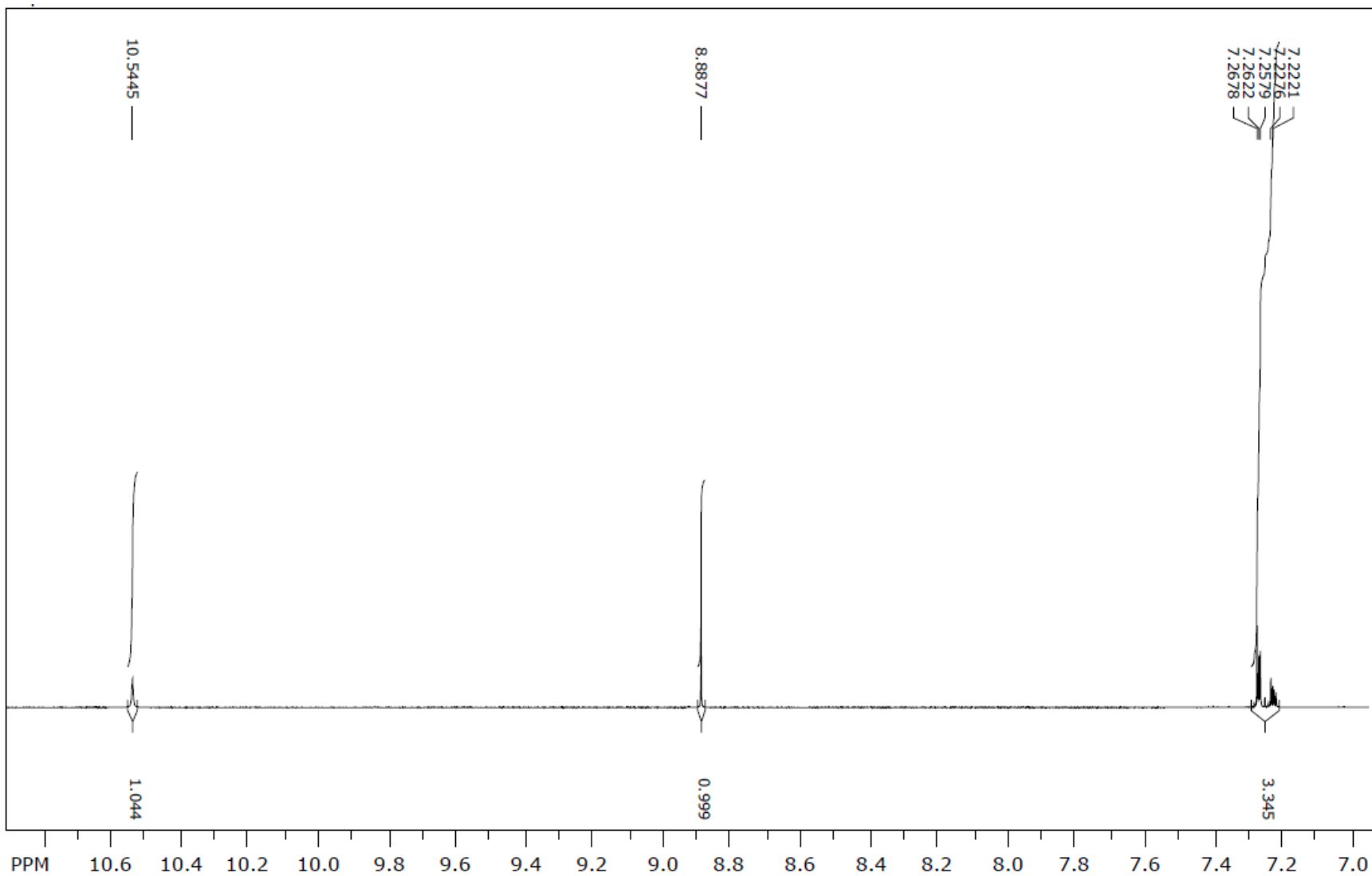
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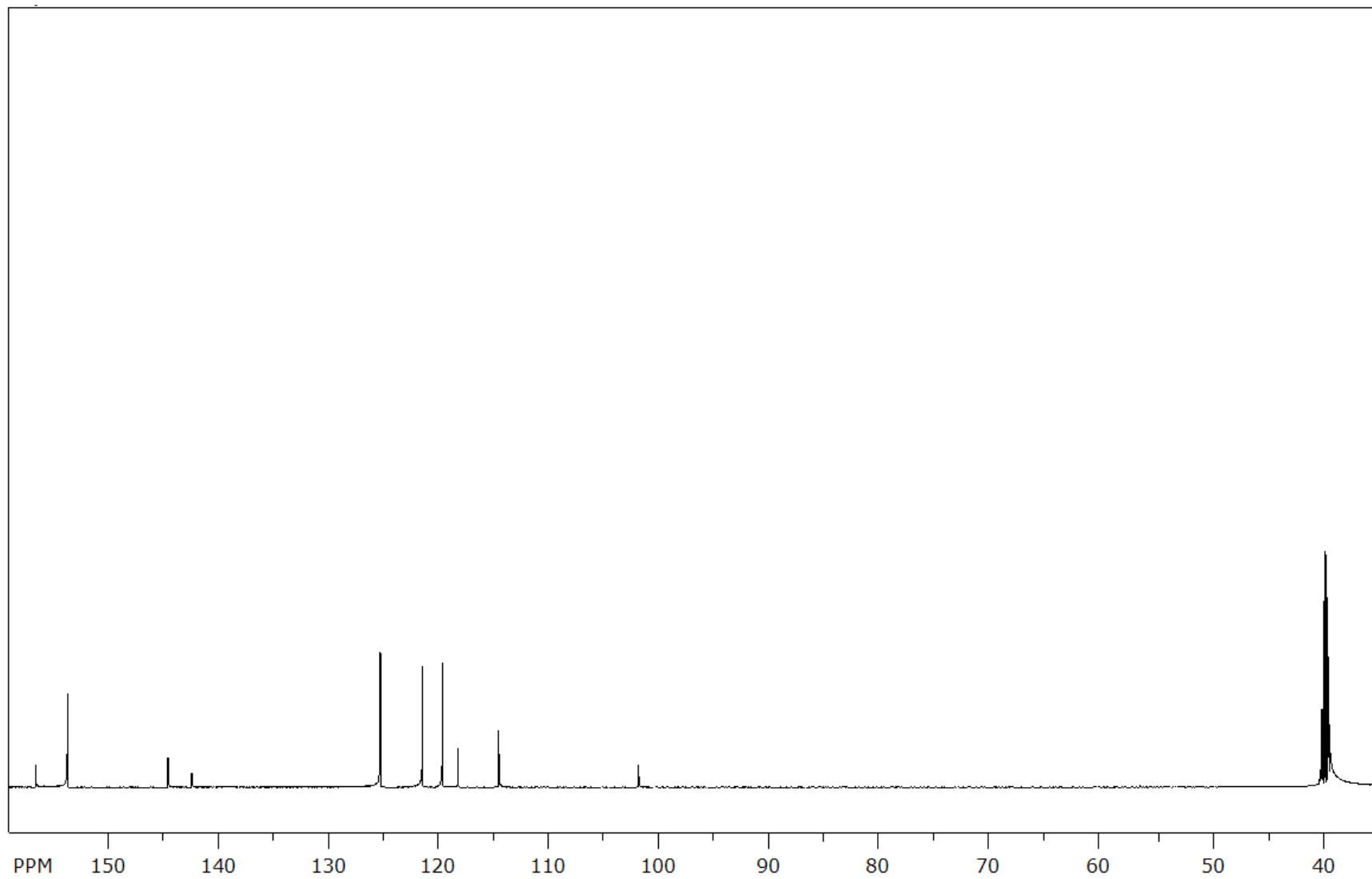
# Maseni spektar (4c)



<sup>1</sup>H NMR spektr (4c)



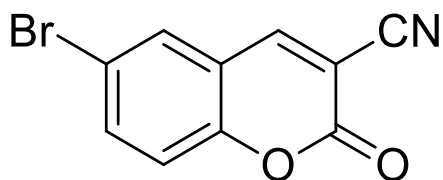
**$^{13}\text{C}$  NMR spektr (4c)**



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**6-brom-2-okso-2H-kromen-3-karbonitril (4d)**

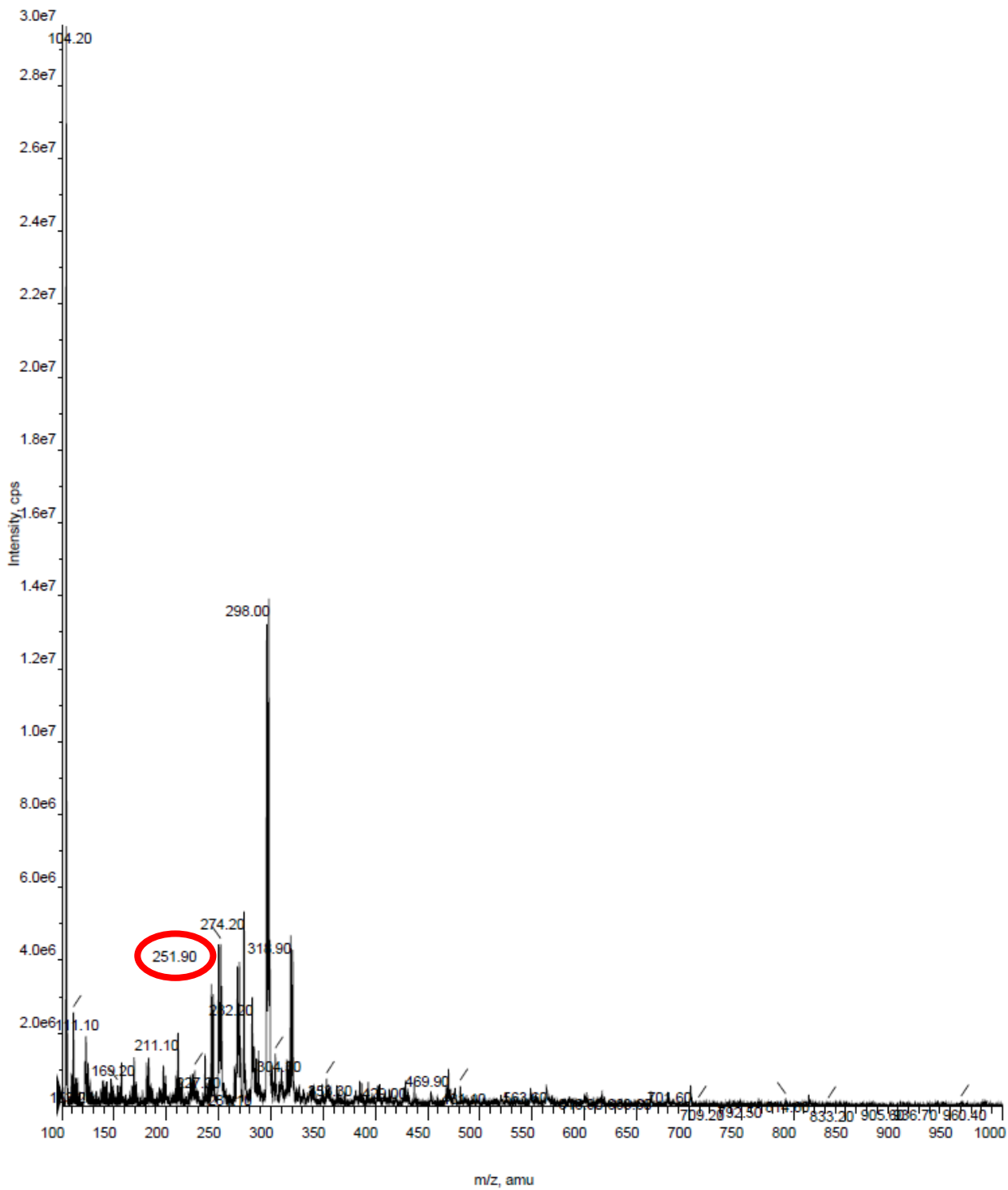
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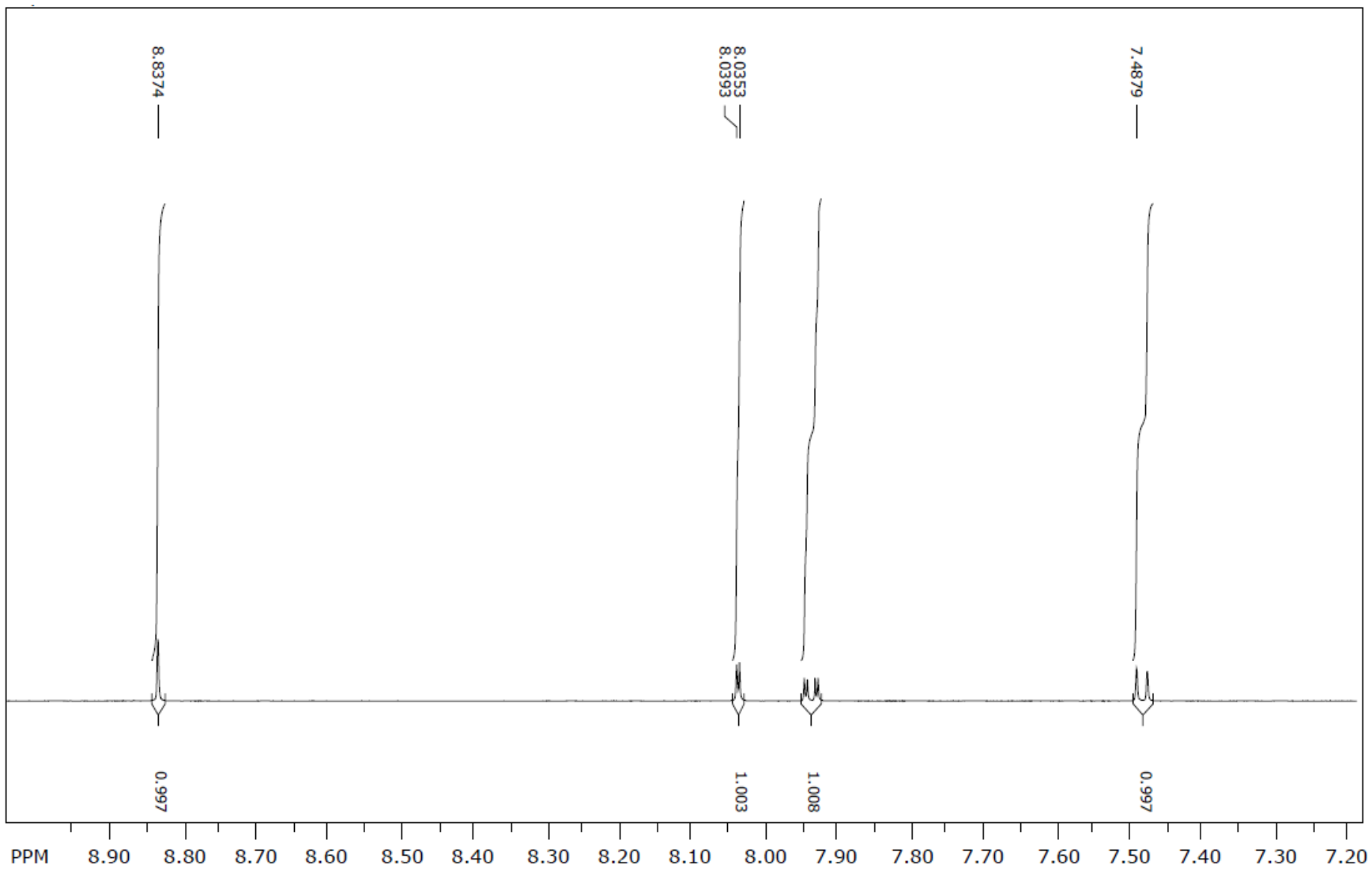
<b>Reaktanti</b>	5-bromsalicilaldehid (10 mmol) i etil cijanoacetat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	250,04 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>4</sub> BrNO <sub>2</sub>
<b>Temperatura tališta</b>	200 – 201 °C (lit. 200 – 201 °C, Keshavarzipour i Tavakol, 2016; 201 – 202 °C, Valizadeh i sur., 2011)
<b>Boja kristala</b>	Svijetlo žuta
<b>R<sub>f</sub></b>	0,84
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	251,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,84 (s, 1H, coum.), 8,04 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 7,94 (dd, <i>J</i> = 8,88, 2,46 Hz, 1H, arom.) 7,48 (d, <i>J</i> = 8,88 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 156,3; 153,1; 152,0; 137,5; 131,7; 119,0; 116,9; 114,3; 103,4.

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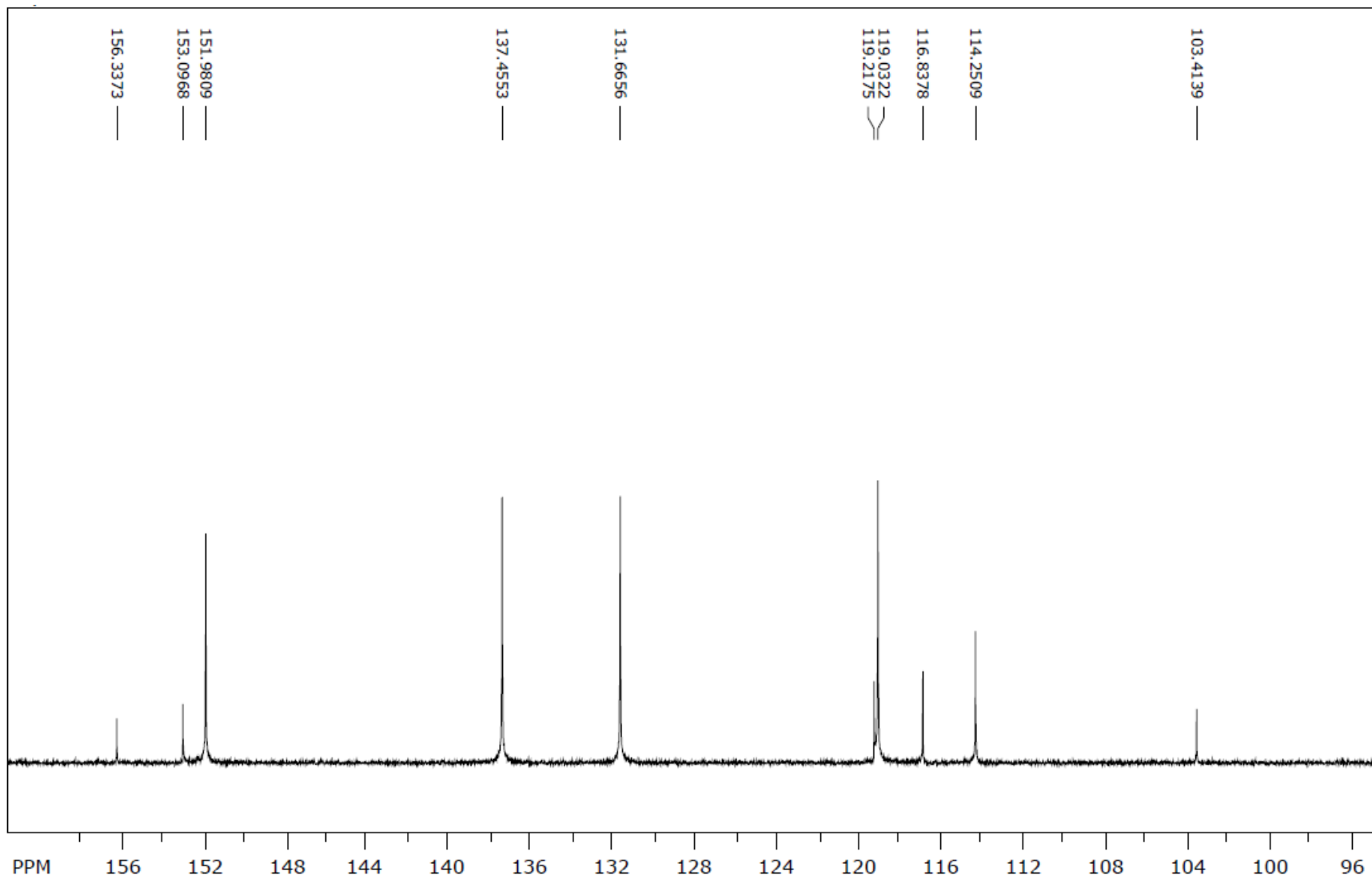
# Maseni spektar (4d)



**<sup>1</sup>H NMR spektr (4d)**



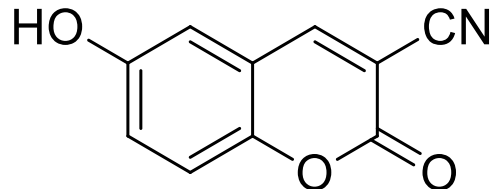
**<sup>13</sup>C NMR spektr (4d)**



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**6-hidroksi-2-okso-2H-kromen-3-karbonitril (4e)**

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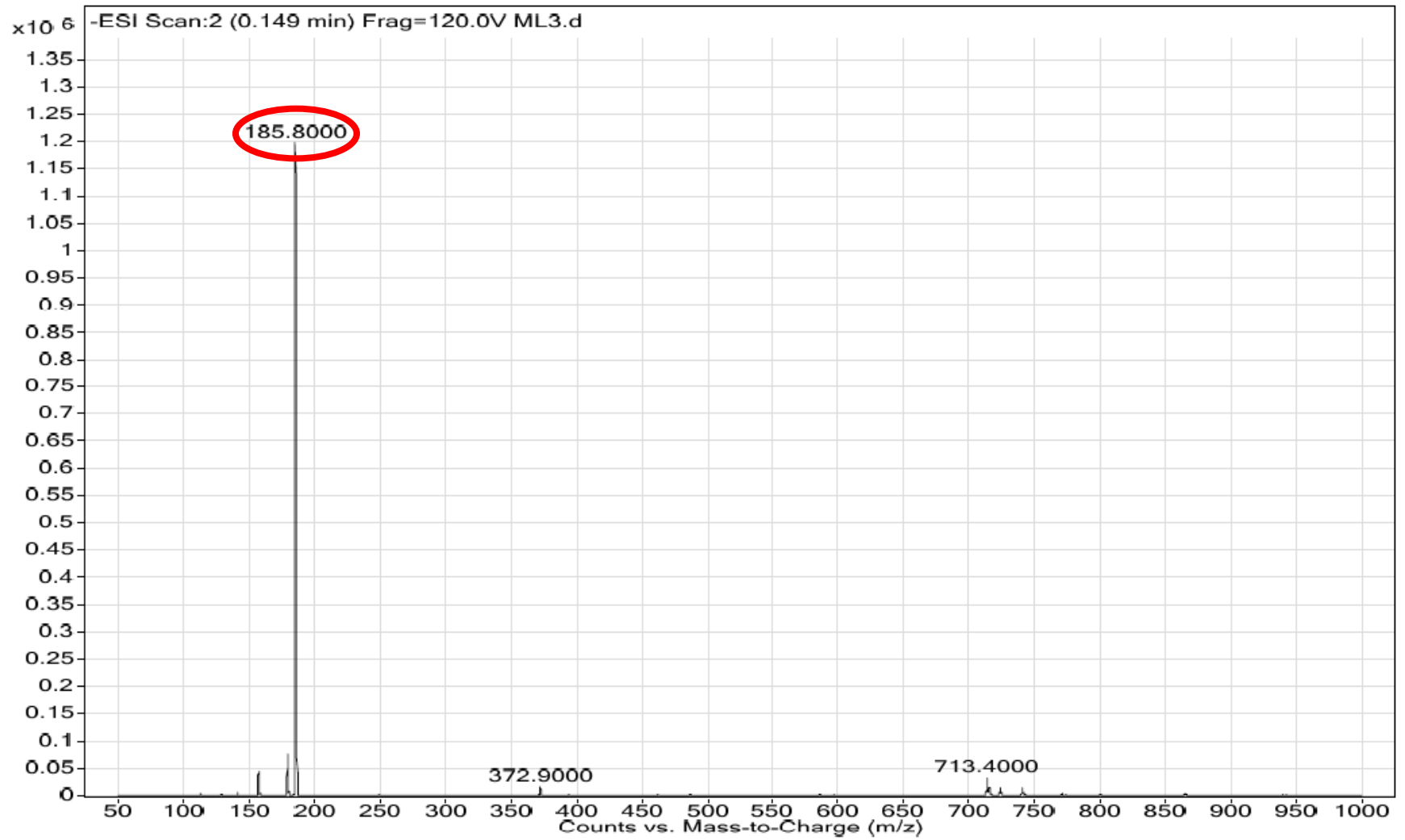


<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (10 mmol) i etil cijanoacetat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	187,15 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>5</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	237 – 238 °C (lit. 236 – 239 °C, Valizadeh i sur., 2011)
<b>Boja kristala</b>	Svijetlo smeđa
<b>R<sub>f</sub></b>	0,50
<b>LC/MS/MS <i>m/z</i> (M-)</b>	185,80
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,07 (s, 1H, OH) 8,87 (s, 1H, C-4), 7,36 (d, <i>J</i> = 8,97 Hz, 1H, arom.) 7,21 (dd, <i>J</i> = 8,97, 2,90 Hz, 1H, arom.) 7,12 (d, <i>J</i> = 2,91 Hz, 1H, arom).
<b><sup>13</sup>C NMR</b>	(75 MHz, CDCl <sub>3</sub> ) δ 157,6; 154,9; 153,9; 147,9; 124,1; 118,3; 115,2; 113,8; 102,5.

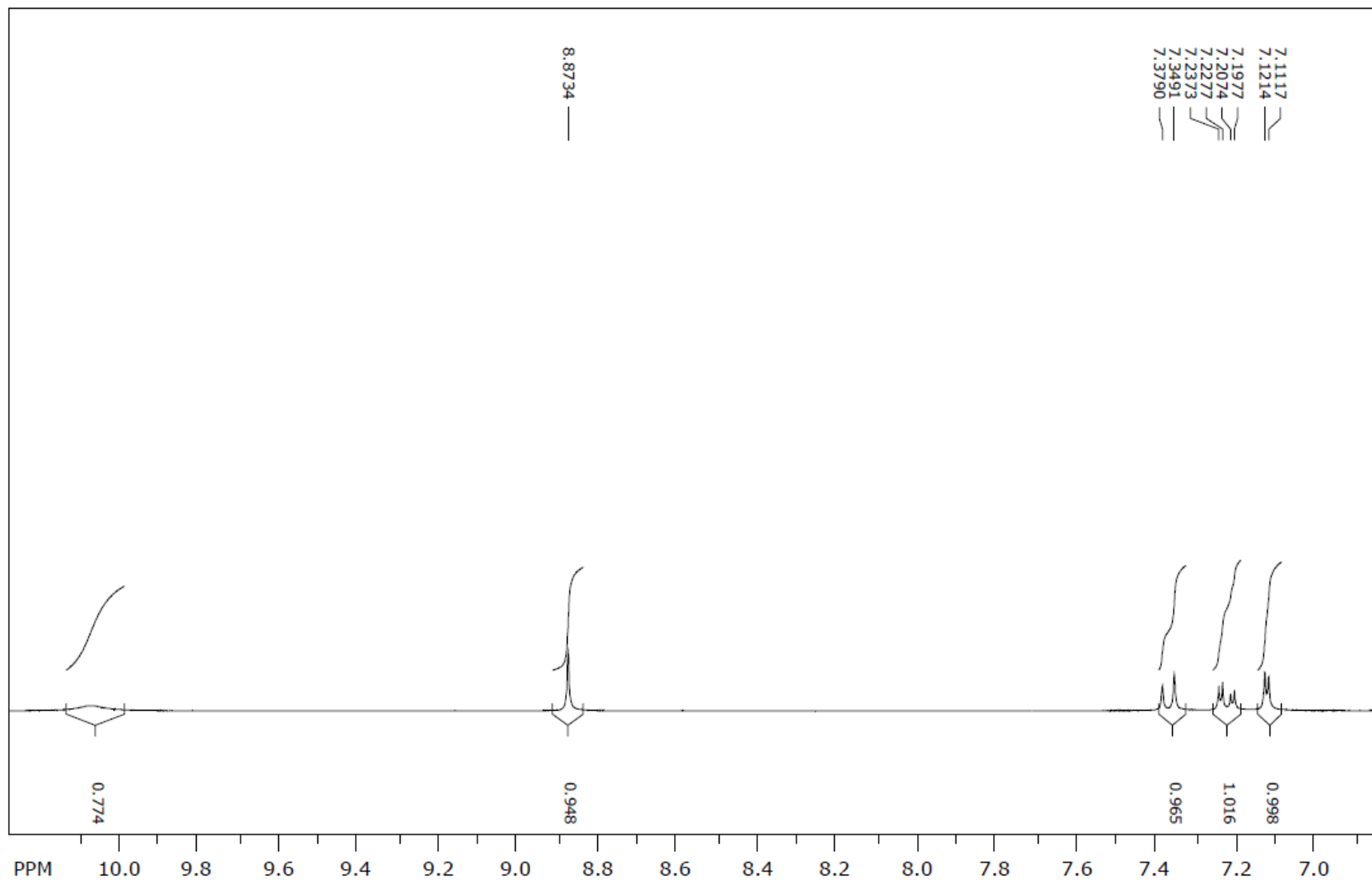
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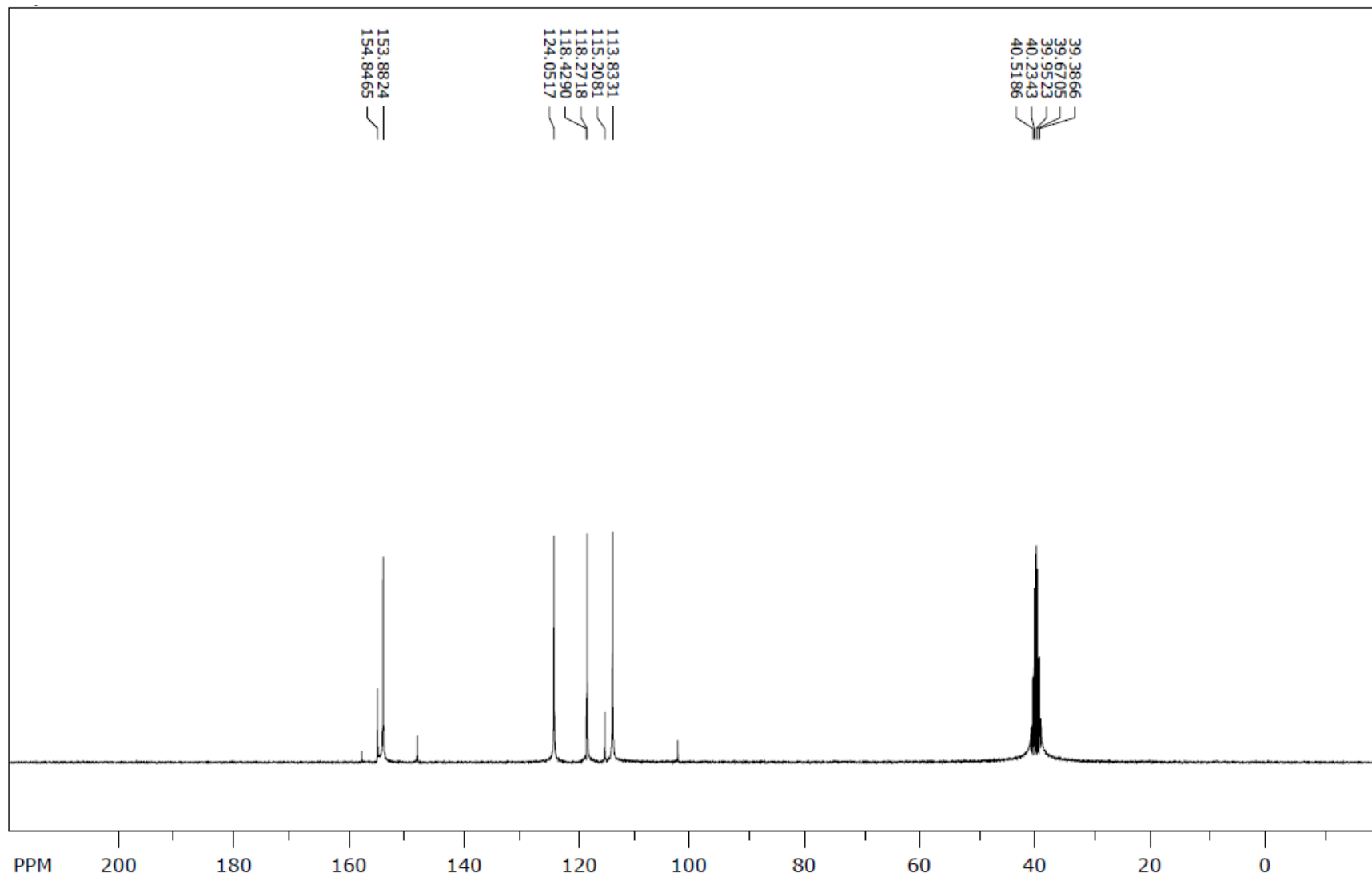
### Maseni spektr (4e)



**<sup>1</sup>H NMR spektr (4e)**



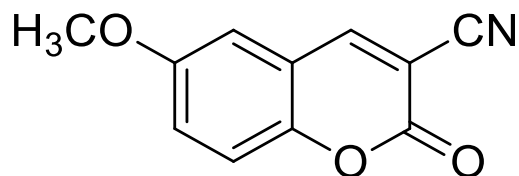
**<sup>13</sup>C NMR spektr (4e)**



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**6-metoksi-2-okso-2H-kromen-3-karbonitril (4f)**

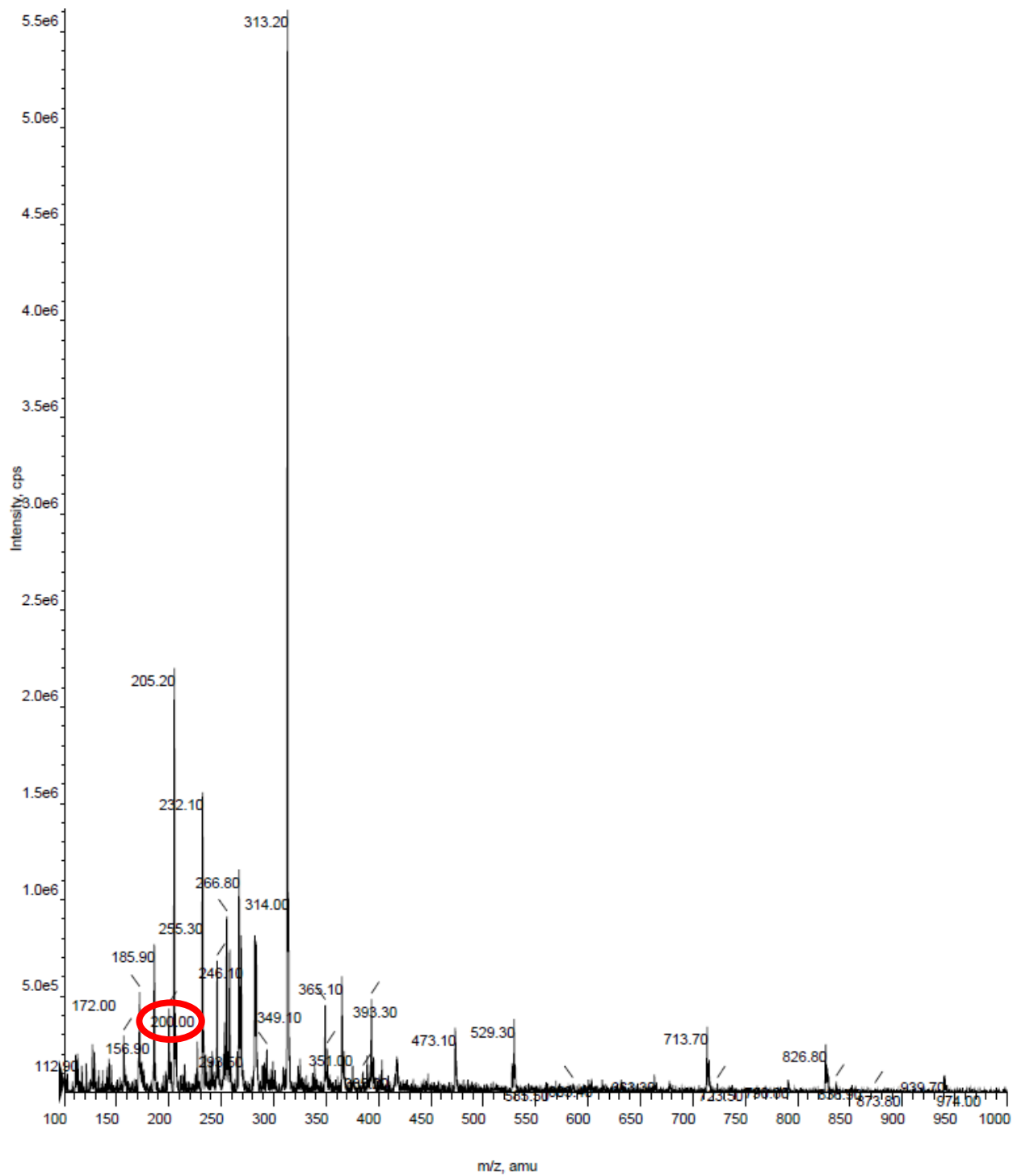
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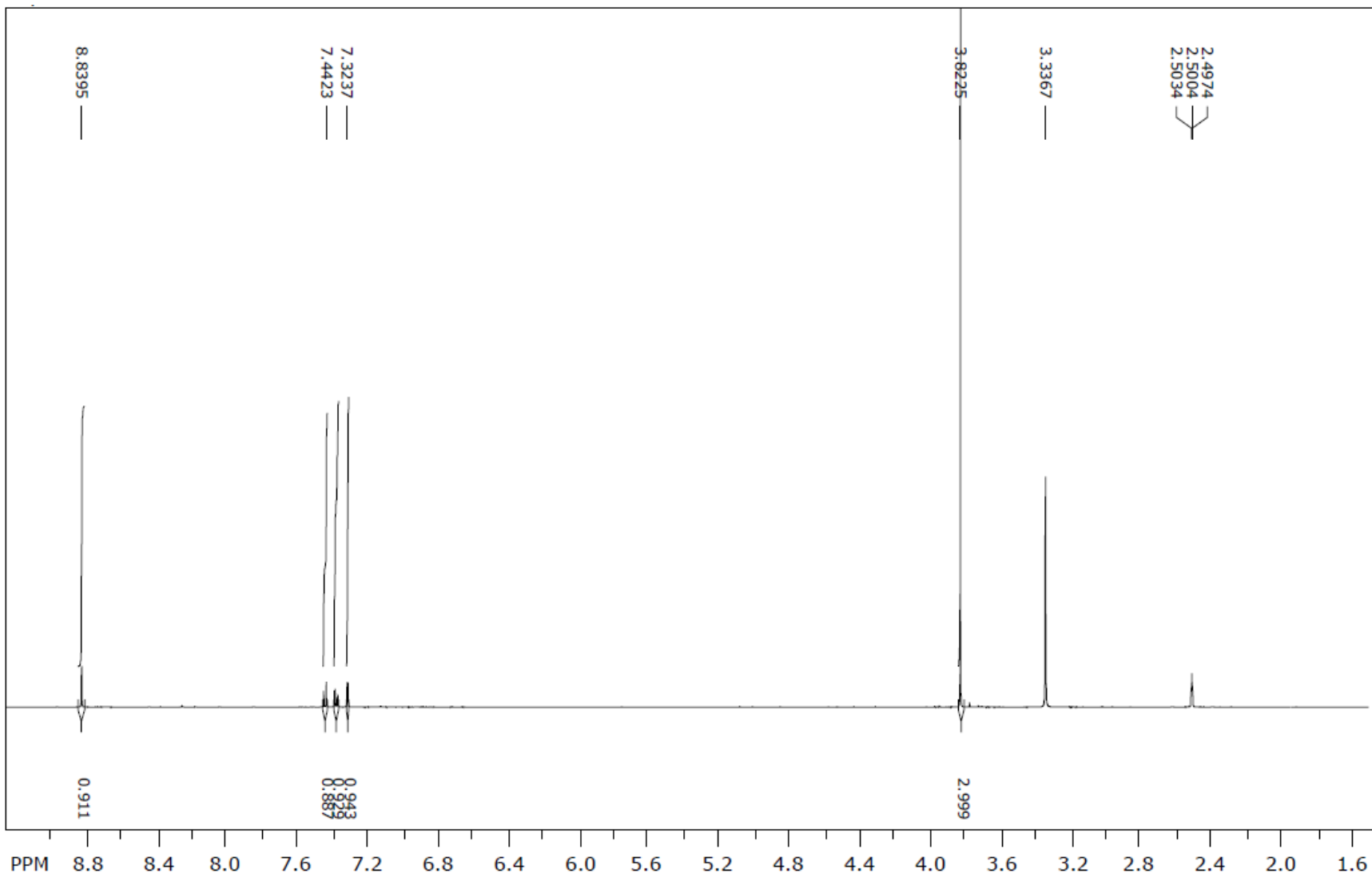
<b>Reaktanti</b>	5-metoksisalicilaldehid (3,2 mmol) i etil cijanoacetat (3,2 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	201,17 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>7</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	230 – 232 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,82
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	200,00
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,84 (s, 1H), 7,45 (d, <i>J</i> = 9,06 Hz, 1H, arom.) 7,39 (dd, <i>J</i> = 9,06, 3,06 Hz, 1H, arom.) 7,32 (d, <i>J</i> = 3,00 Hz, 1H, arom.), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 157,0; 156,1; 153,1; 148,5; 123,2; 117,9; 114,6; 111,4; 102,4; 55,9.

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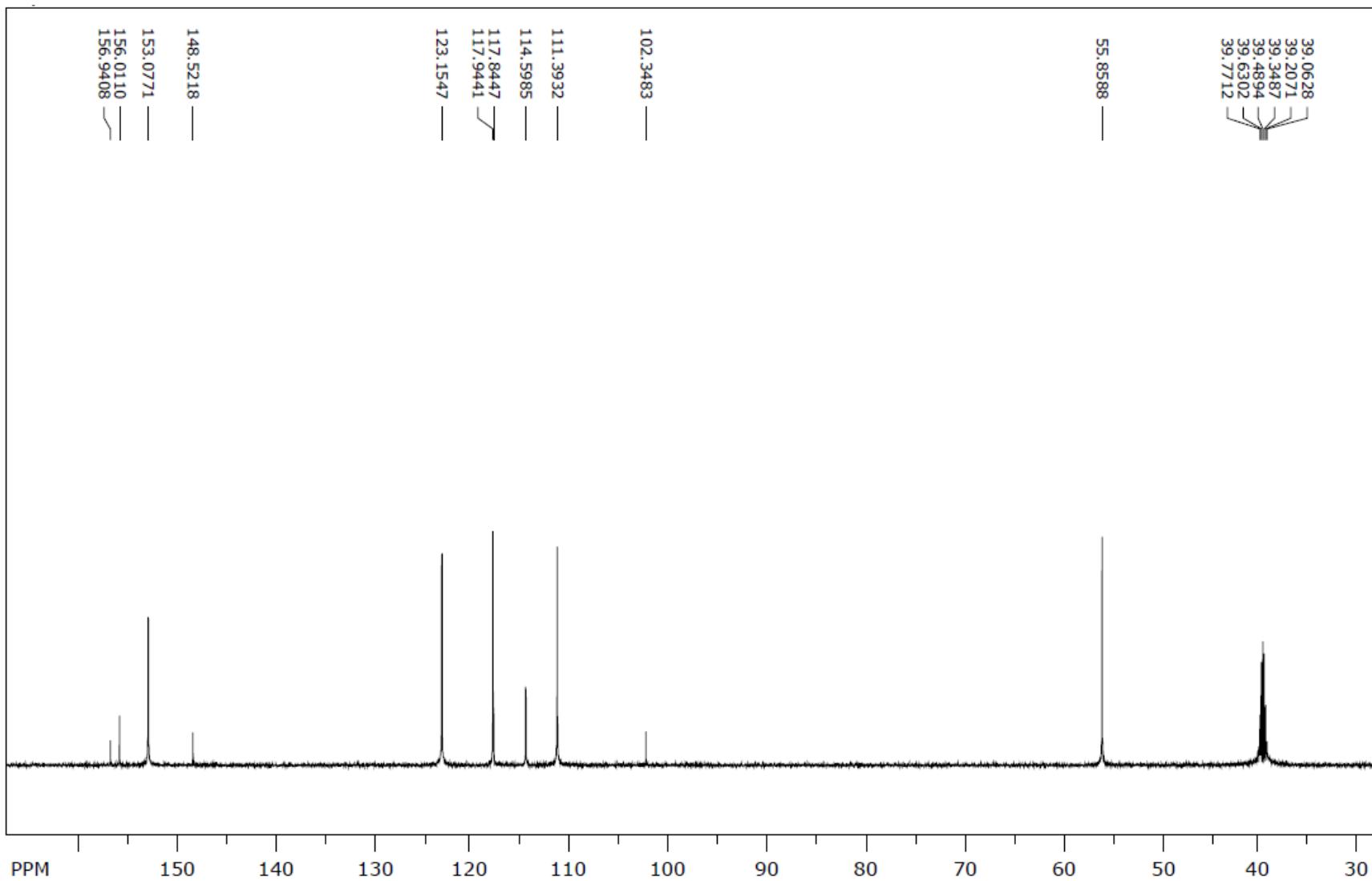
# Maseni spektar (4f)



<sup>1</sup>H NMR spektr (4f)



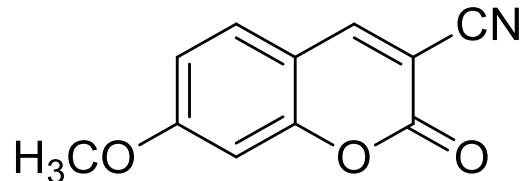
**<sup>13</sup>C NMR spektr (4f)**



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**7-metoksi-2-okso-2H-kromen-3-karbonitril (4g)**

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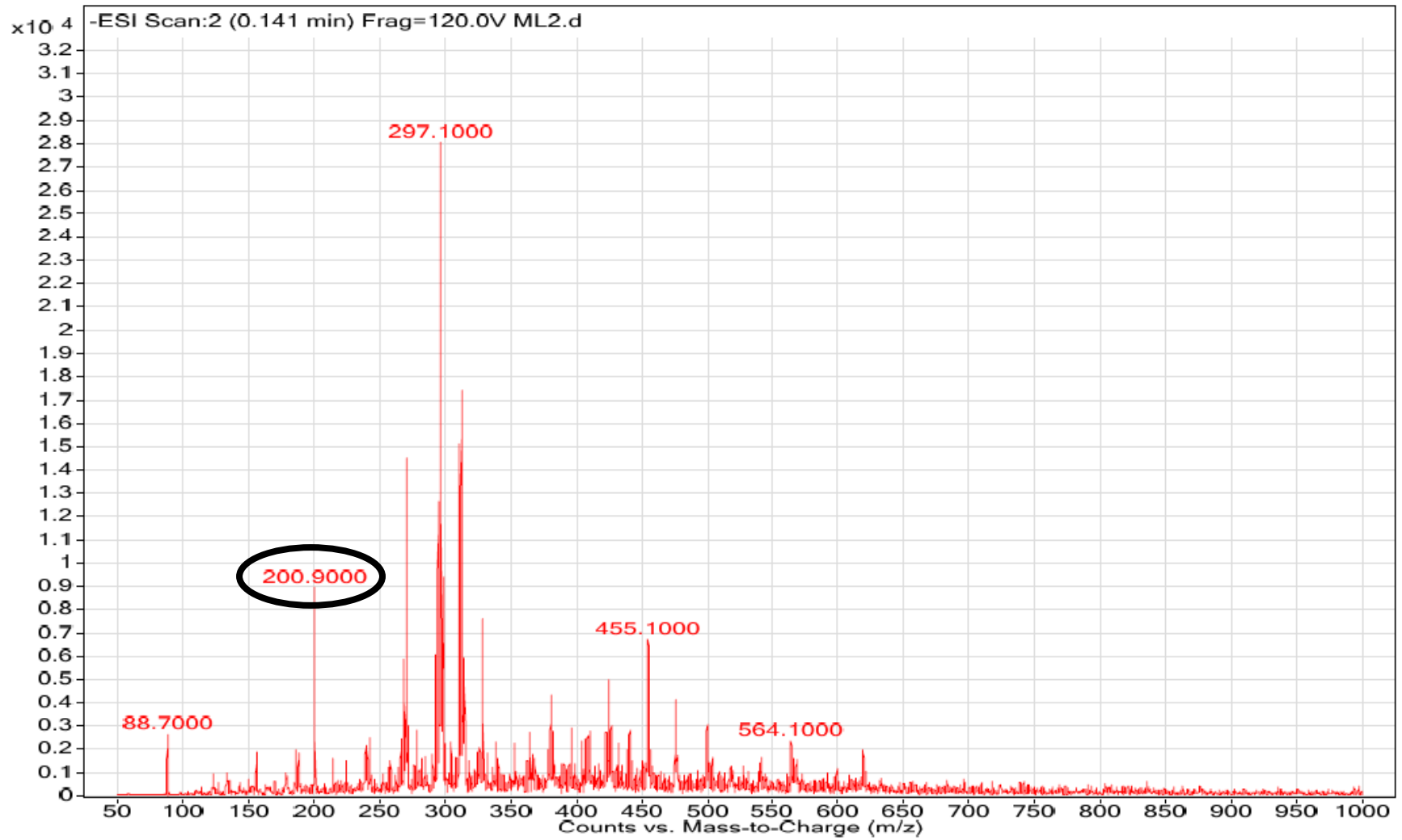


<b>Reaktanti</b>	4-metoksisalicilaldehid (3,3 mmol) i etil cijanoacetat (3,3 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola i metanola
<b>Molekulska masa</b>	201,18 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>7</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	221 – 223 °C (lit. 228 °C, Kumar i Makrandi, 2005; 224 – 226 °C, Valizadeh i sur., 2011)
<b>Boja kristala</b>	Svijetlo žuta
<b>R<sub>f</sub></b>	0,74
<b>LC/MS/MS m/z (M-)</b>	200,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,82 (s, 1H, coum.), 7,72 (d, <i>J</i> = 8,7 Hz, 1H, arom.), 7,09 (d, <i>J</i> = 2,34 Hz, 1H, arom.), 7,05 (dd, <i>J</i> = 8,76, 2,46 Hz, 1H, arom.), 3,90 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 165,4; 157,3; 153,2; 131,3; 114,9; 113,9; 111,3; 101,0; 97,4; 56,4.

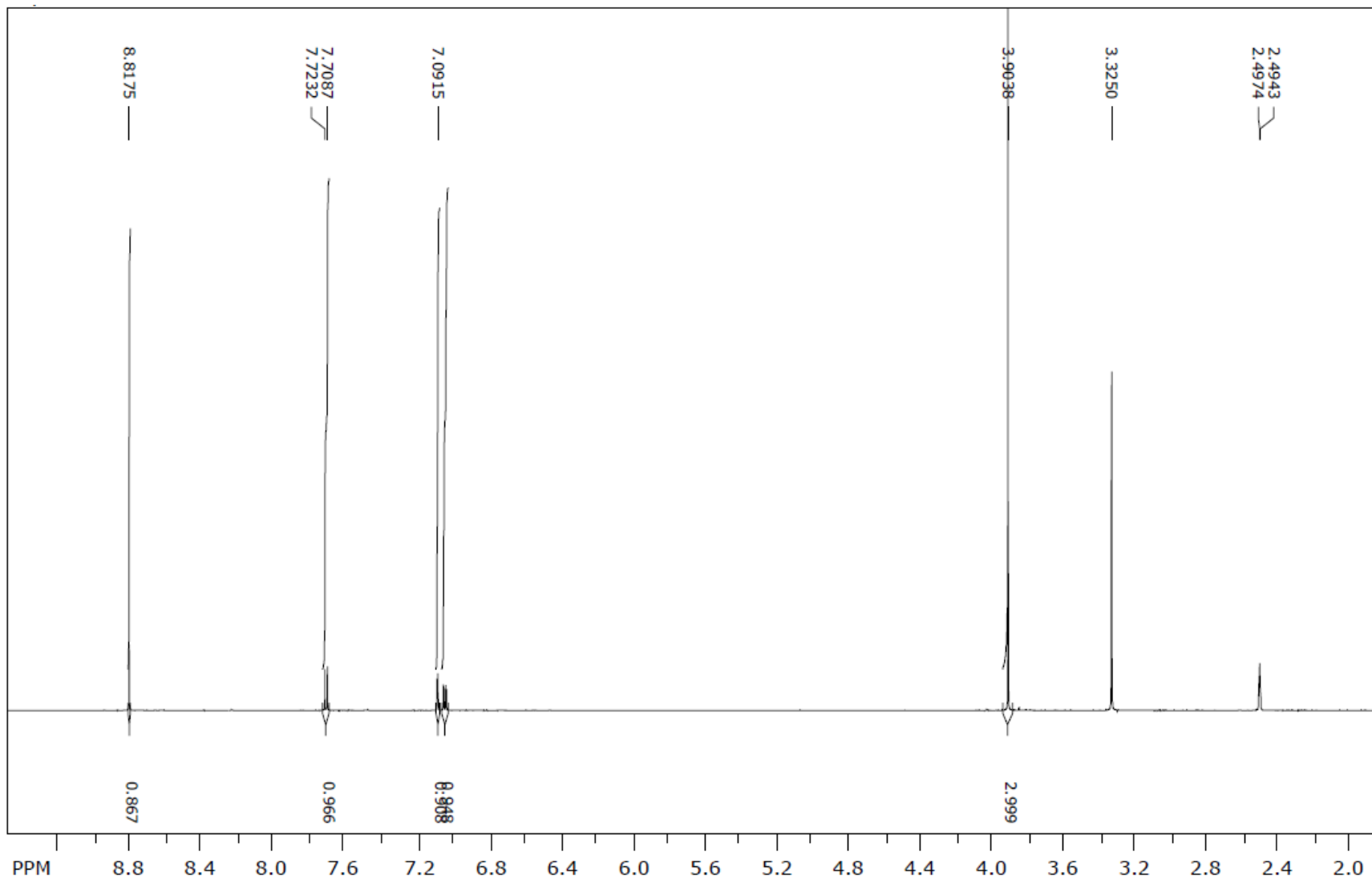
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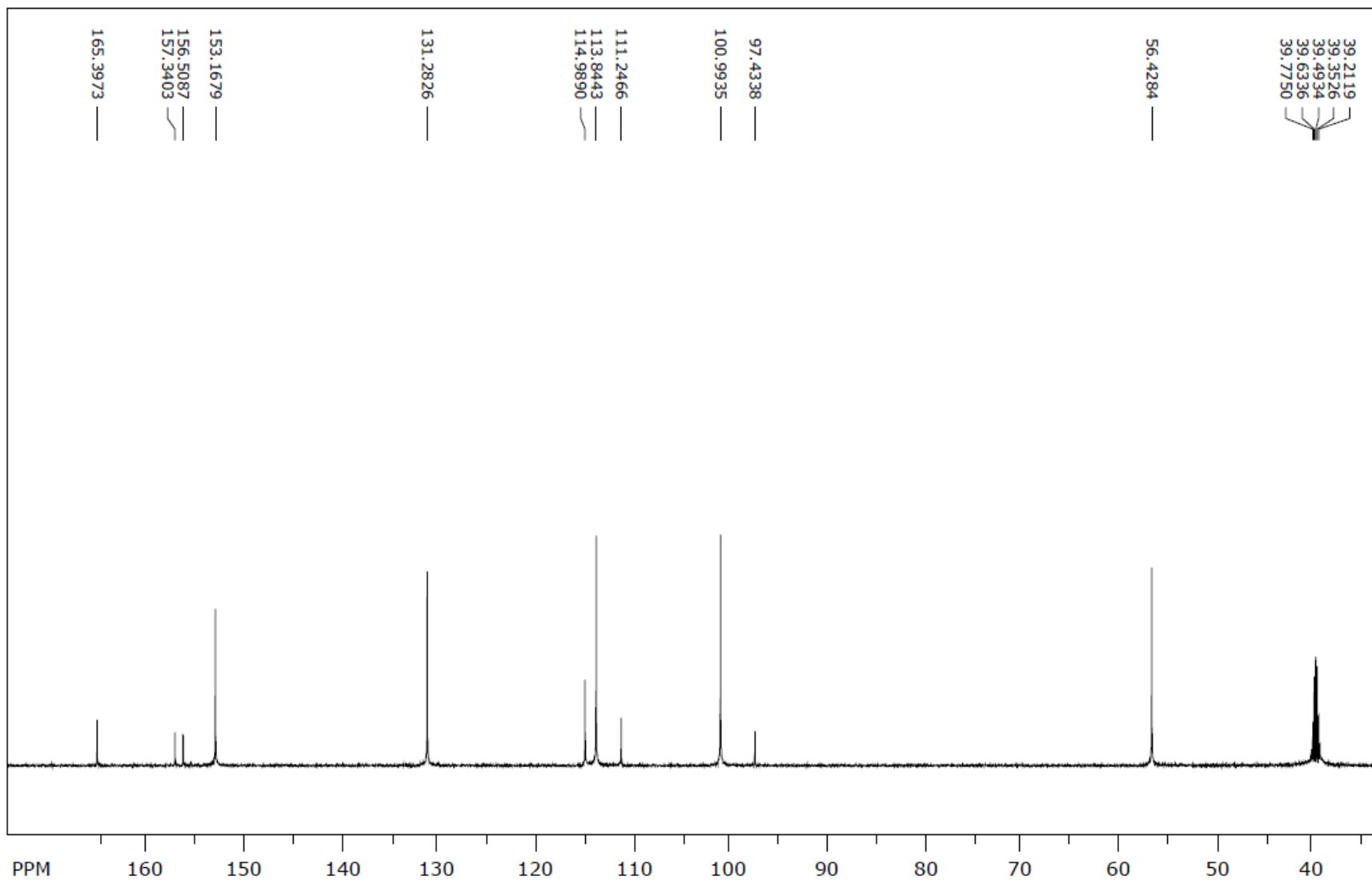
# Maseni spektar (4g)



<sup>1</sup>H NMR spektr (4g)



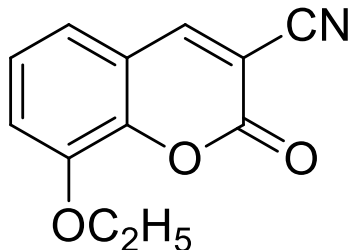
**<sup>13</sup>C NMR spektr (4g)**



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**8-etoksi-2-okso-2H-kromen-3-karbonitril (4h)**

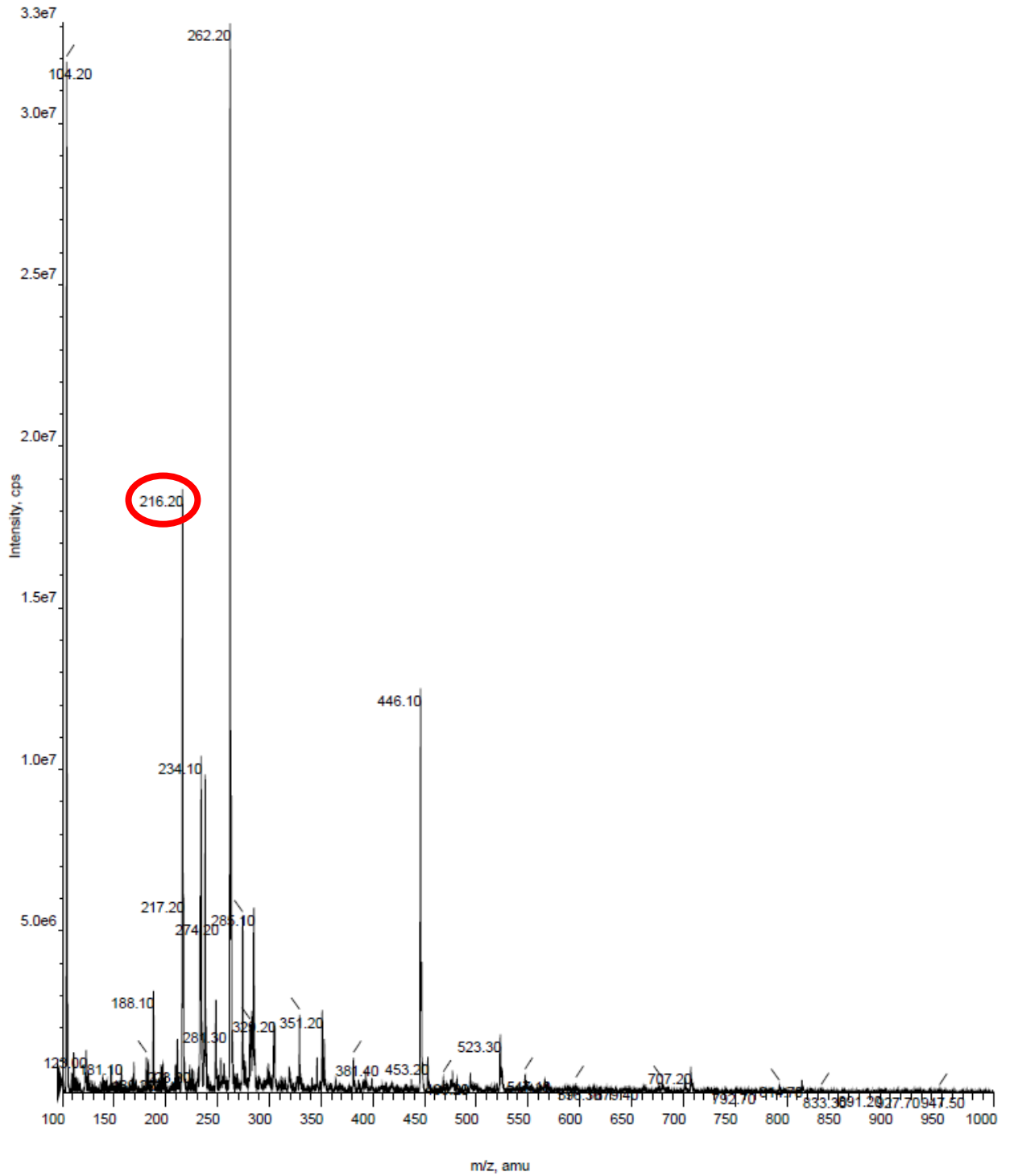
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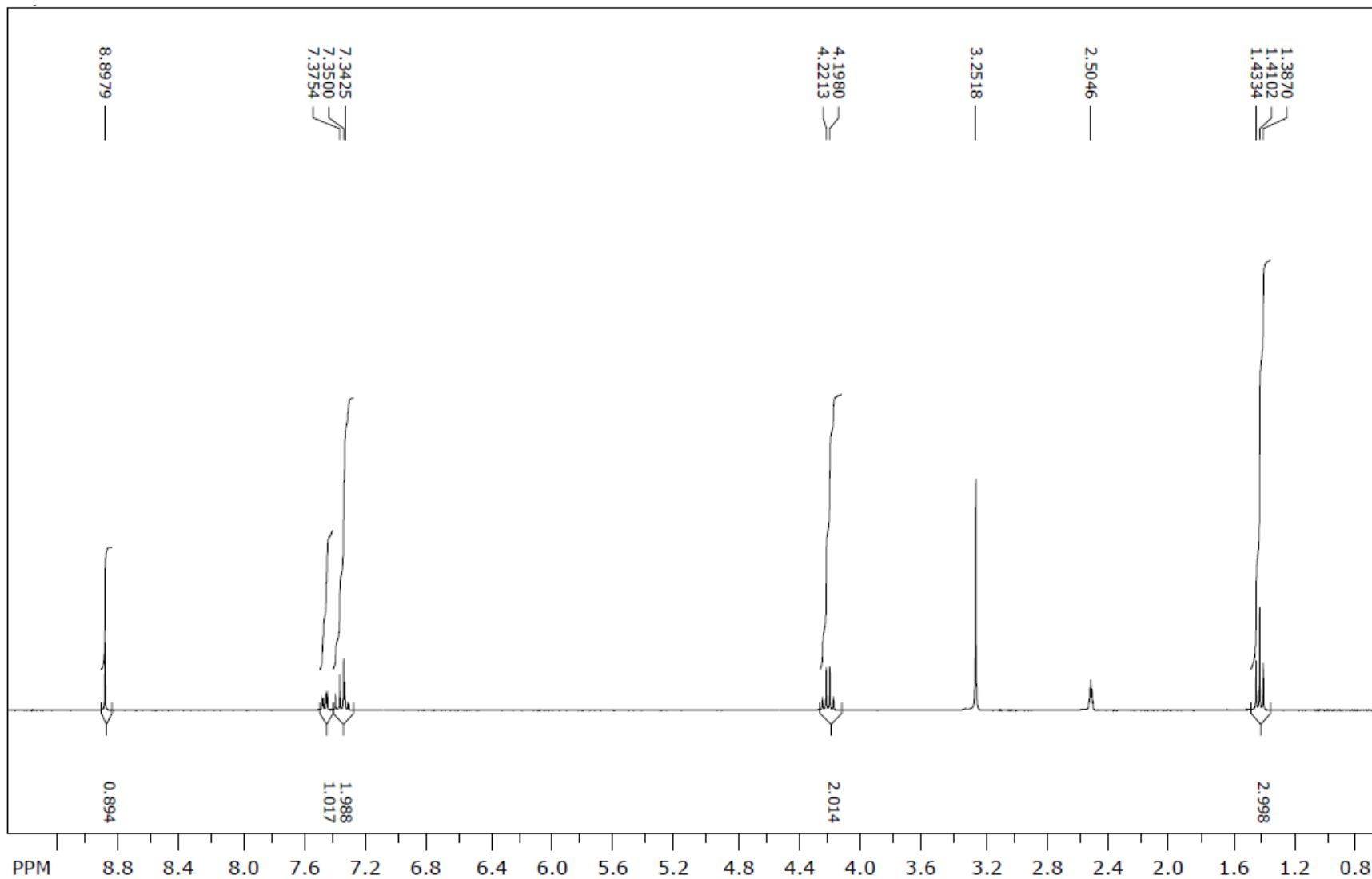
<b>Reaktanti</b>	3-etoksisalicilaldehid (10 mmol) i etil cijanoacetat (10 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	215,20 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	185 -187 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,49
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	216,20
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,90 (s, 1H, coum.), 7,47 (dd, <i>J</i> = 7,56, 2,07 Hz, 1H, arom.), 7,32 – 7,40 (m, 2H, arom.), 4,21 (q, <i>J</i> = 6,97 Hz, 2H, <u>CH</u> <sub>2</sub> CH <sub>3</sub> ), 1,41 (t, <i>J</i> = 6,96 Hz, 3H, CH <sub>2</sub> <u>CH</u> <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, CDCl <sub>3</sub> ) δ 154,2; 125,9; 131,3; 119,1; 114,9; 102,7; 65,3; 14,9.

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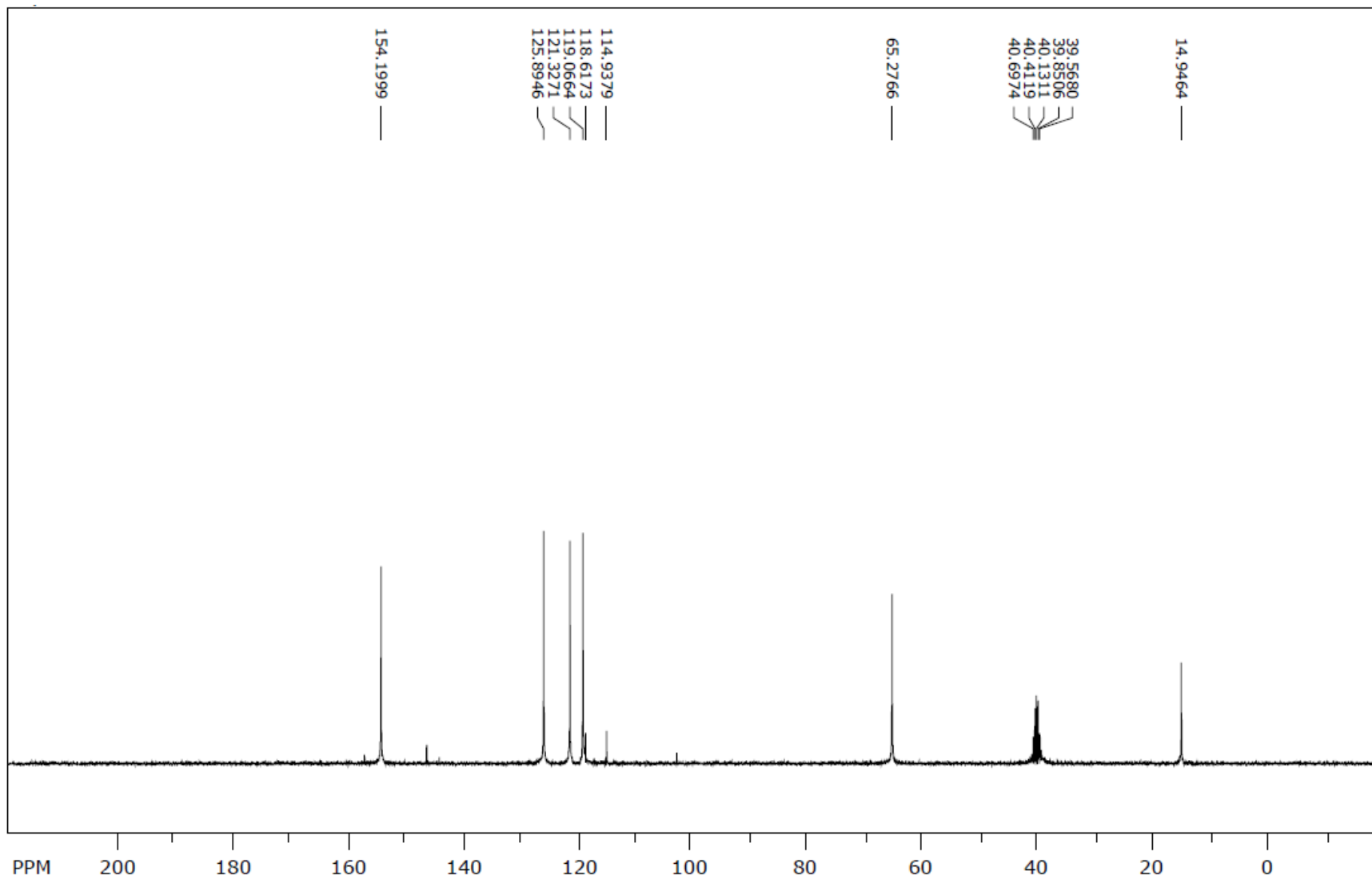
# Maseni spektr (4h)



# <sup>1</sup>H NMR spektr (4h)



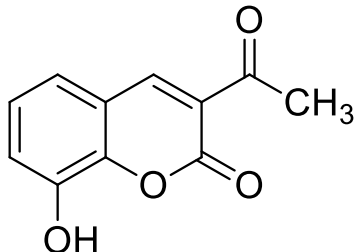
**<sup>13</sup>C NMR spektr (4h)**



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**3-acetil-8-hidroksi-2H-kromen-2-on (5a)**

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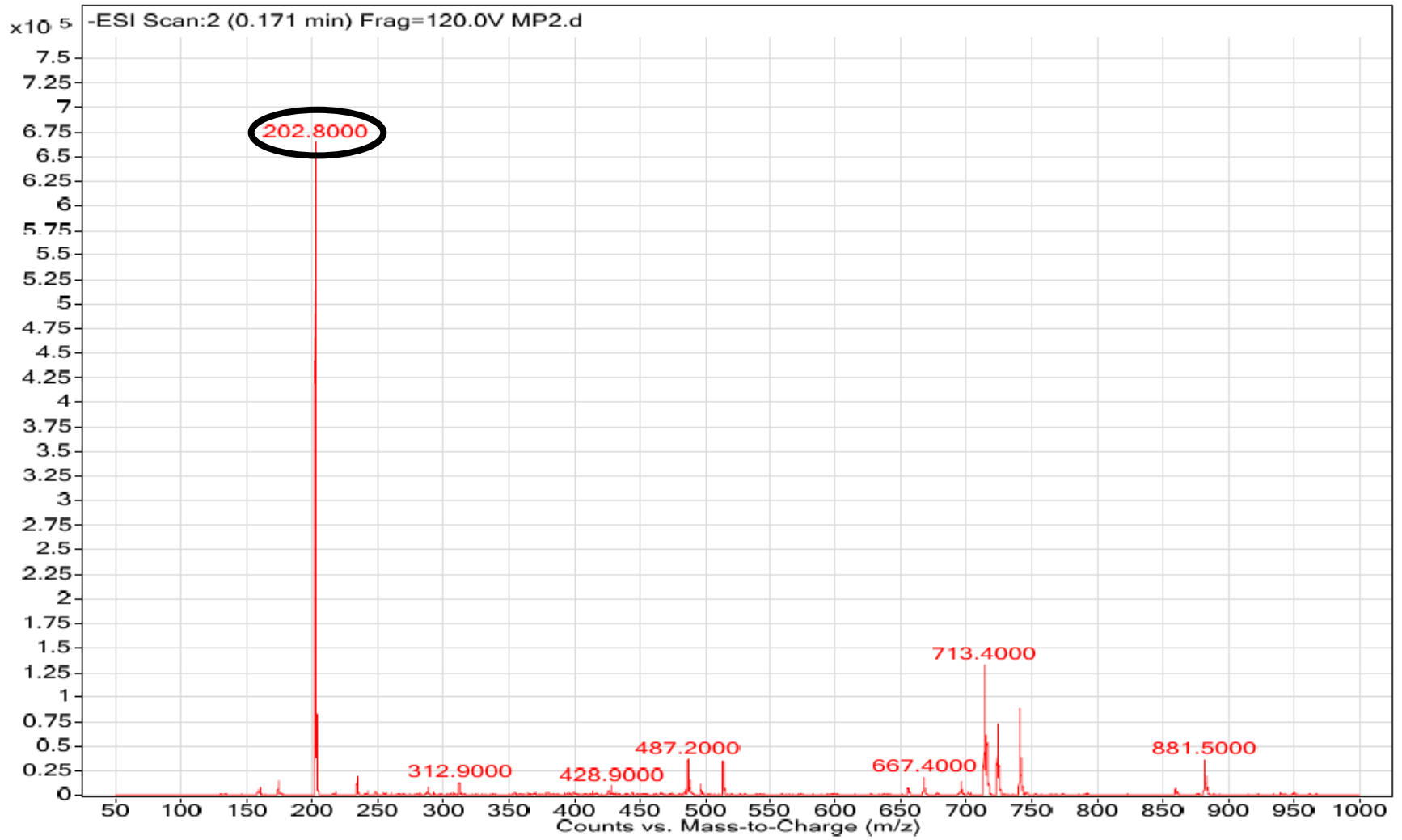


<b>Reaktanti</b>	2,3-dihidroksibenzaldehid (3,6 mmol) i etilacetoacetat (3,6 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	204,17 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>8</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	257 – 259 °C (lit. 249 – 251 °C, Zerangnasrabad i sur., 2021; 253 °C, la Pietra i sur., 2012)
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,66
<b>LC/MS/MS <i>m/z</i> (M-)</b>	202,8
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,38 (s, 1H, OH), 8,58 (s, 1H, coum.), 7,35 (dd, <i>J</i> = 5,94, 3,18 Hz, 1H, arom.), 7,19 - 7,23 (m, 2H, arom.), 2,59 (s, 3H, CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 195,2; 158,3; 147,4; 144,4; 143,2; 124,9; 124,3; 120,6; 119,0; 30,0.

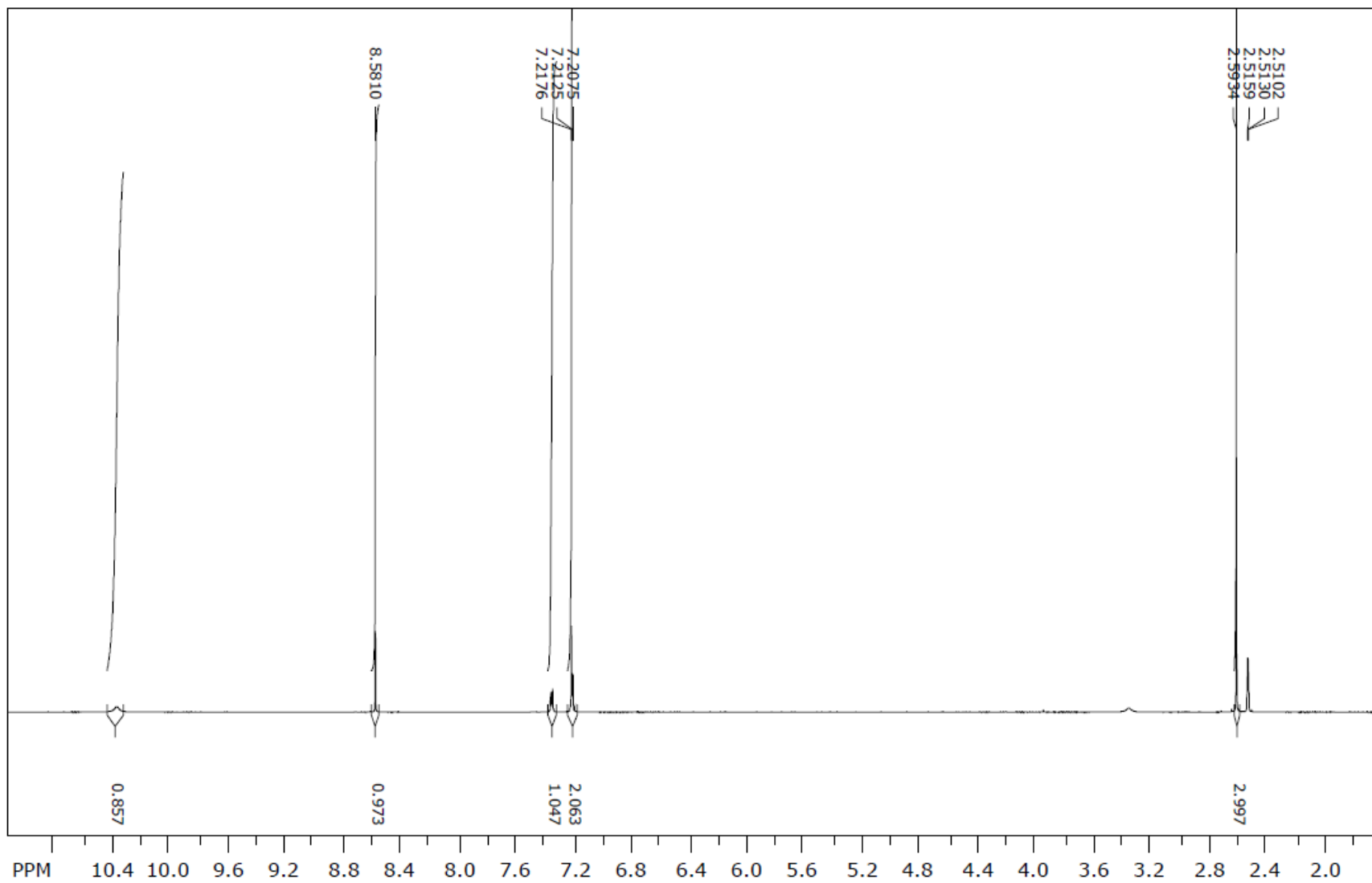
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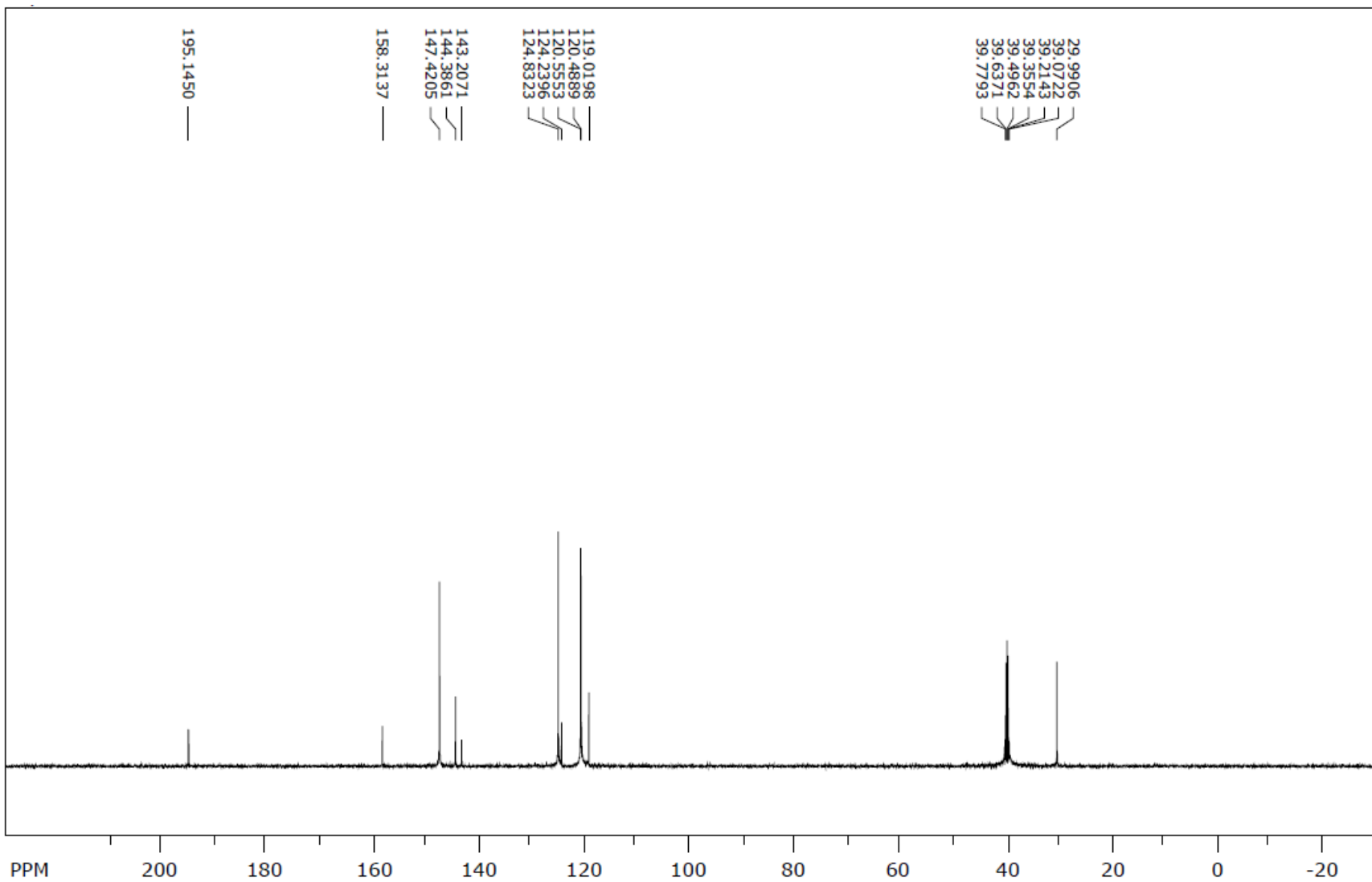
### Maseni spektar (5a)



<sup>1</sup>H NMR spektr (5a)



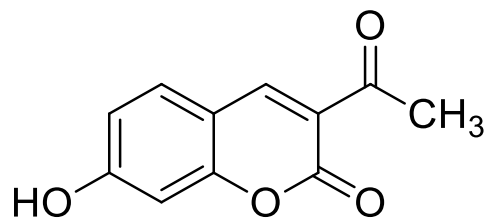
**<sup>13</sup>C NMR spektr (5a)**



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**3-acetil-7-hidroksi-2H-kromen-2-on (5b)**

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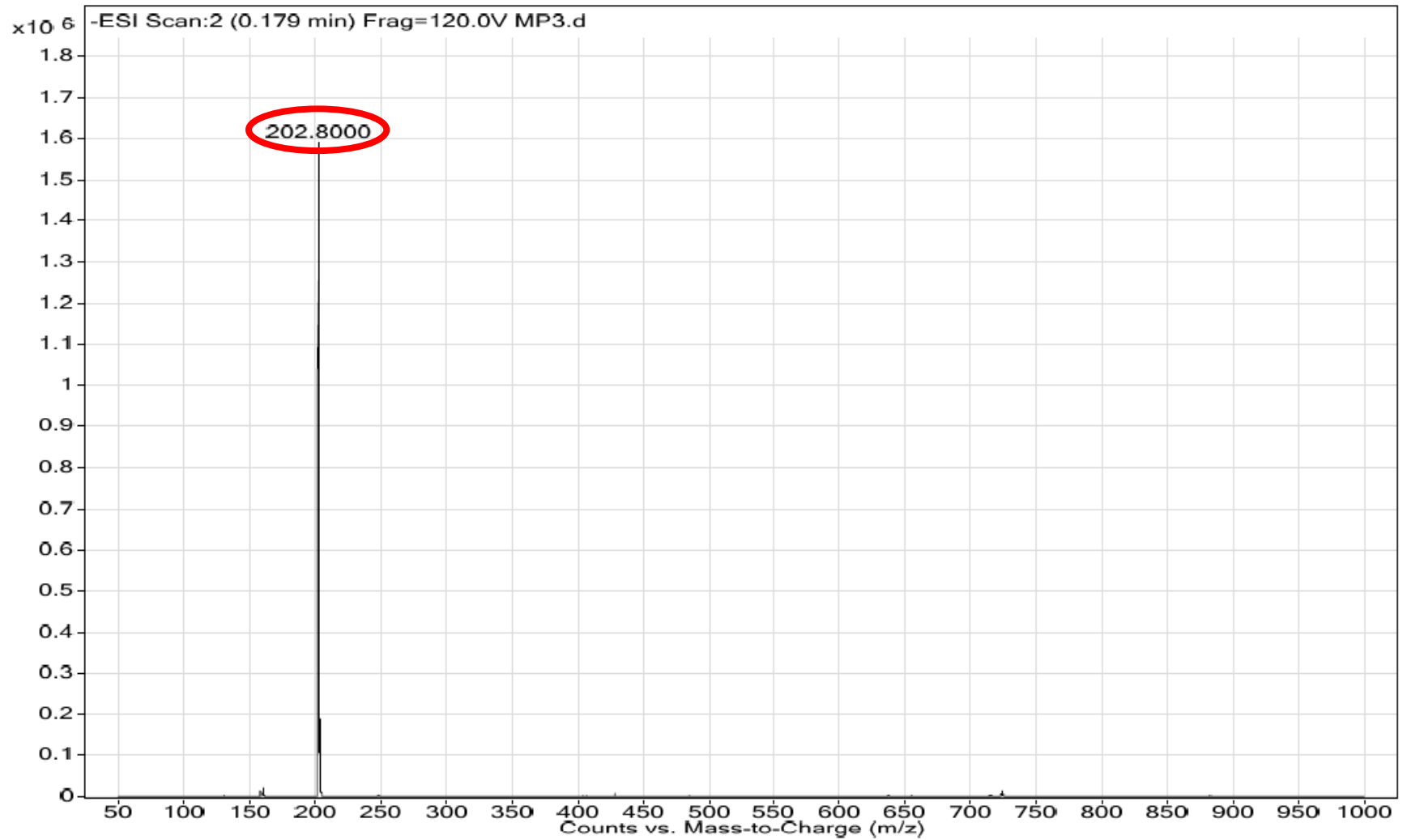


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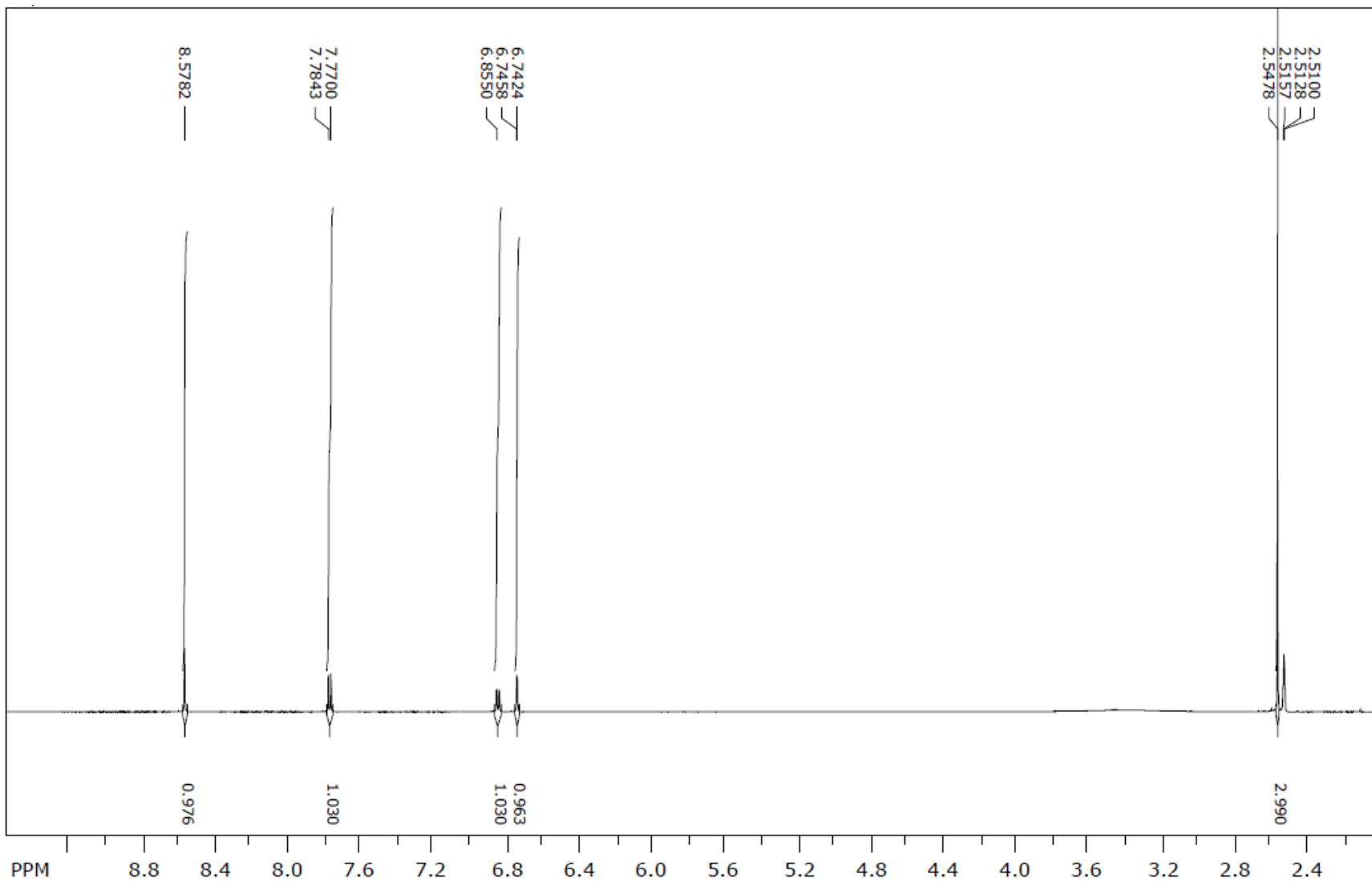
<b>Reaktanti</b>	2,4-dihidroksibenzaldehid (7,2 mmol) i etilacetoacetat (7,2 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola i metanola
<b>Molekulska masa</b>	204,17 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>8</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	237 – 240 °C (lit. 226 – 228 °C, Zerangnasrabad i sur., 2021; 236 – 238 °C, Durgopal i sur., 2020)
<b>Boja kristala</b>	Svijetlo žuta
<b>R<sub>f</sub></b>	0,55
<b>LC/MS/MS <i>m/z</i> (M-)</b>	202,80
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,58 (s, 1H, coum.), 7,78 (d, <i>J</i> = 8,58 Hz, 1H, arom.), 6,85 (dd, <i>J</i> = 8,64, 2,16 Hz, 1H, arom.), 6,74 (d, <i>J</i> = 2,04 Hz, 1H, arom.), 2,55 (s, 3H, CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 194,6; 164,2; 159,0; 157,2; 147,8; 132,6; 119,2; 114,2; 110,8; 101,7; 30,0.

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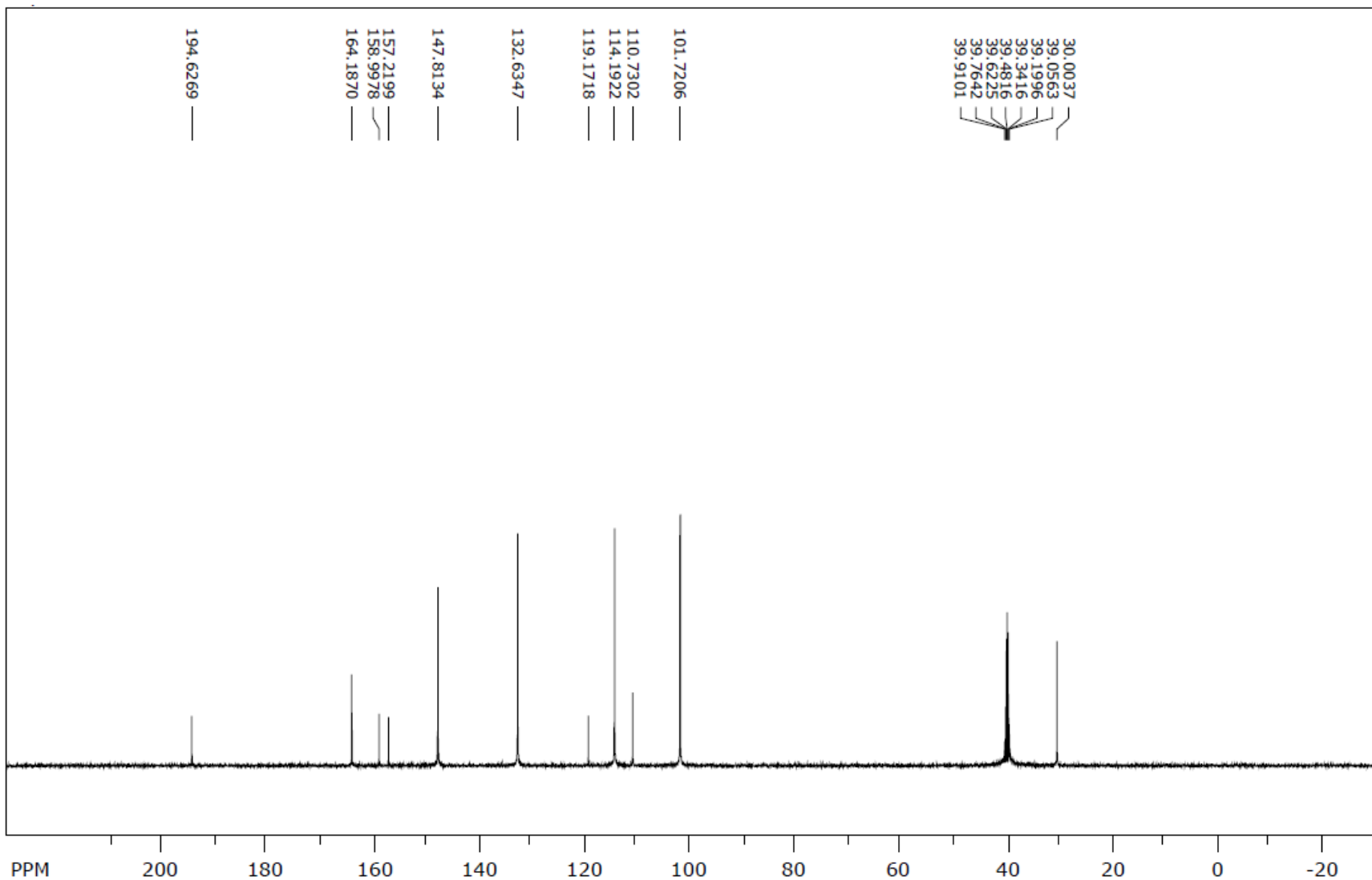
### Maseni spektr (5b)



<sup>1</sup>H NMR spektr (5b)



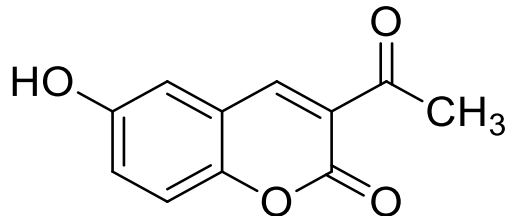
**<sup>13</sup>C NMR spektr (5b)**



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**3-acetil-6-hidroksi-2H-kromen-2-on (5c)**

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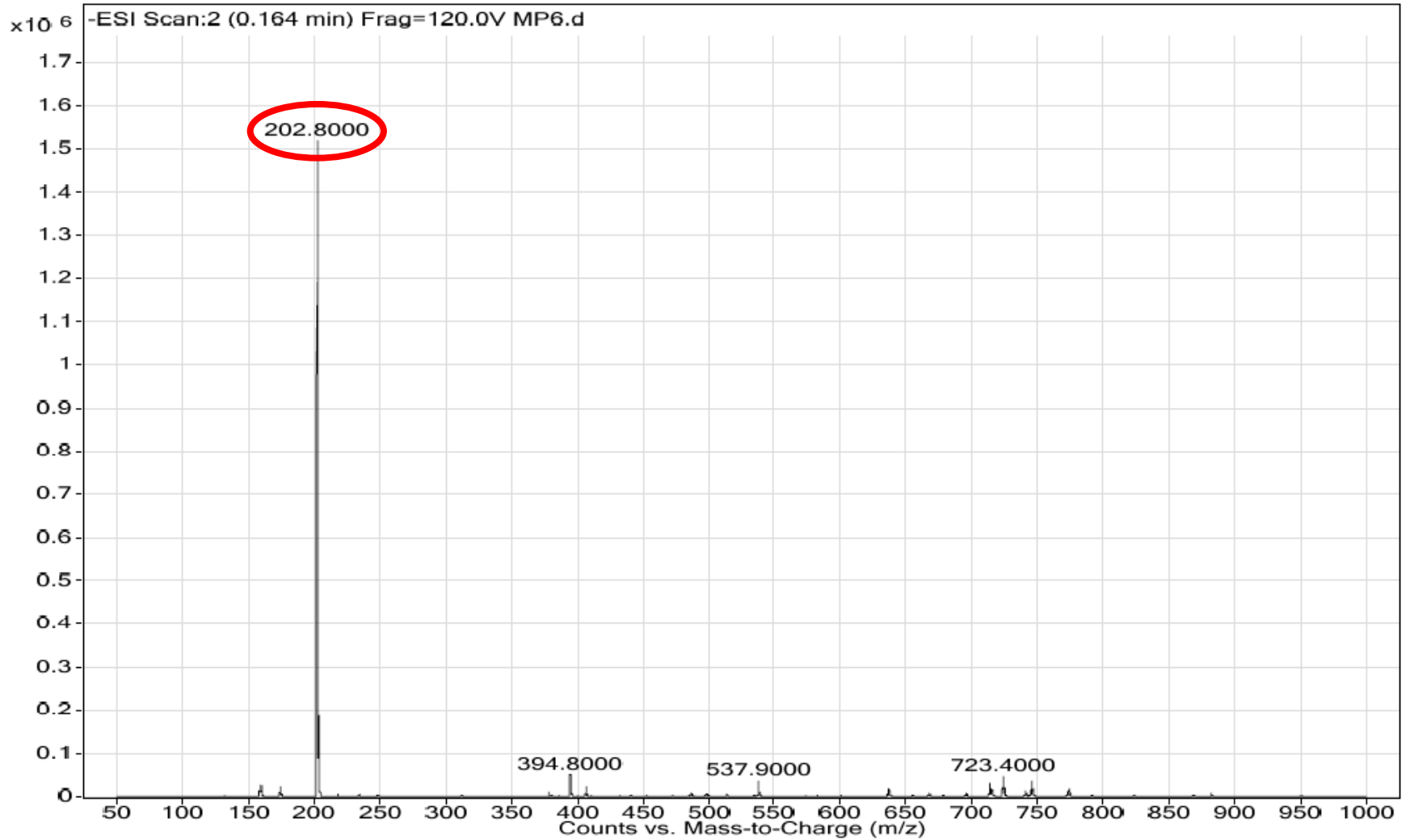


<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (3,6 mmol) i etilacetoacetat (3,6 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	204,18 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>8</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	235 – 238 °C (lit. 246 – 249 °C, Zerangnasrabad i sur., 2021)
<b>Boja kristala</b>	Svijetlo smeđa
<b>R<sub>f</sub></b>	0,55
<b>LC/MS/MS <i>m/z</i> (M-)</b>	202,80
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,56 (s, 1H, coum.), 7,30 (d, <i>J</i> = 8,94 Hz, 1H, arom.), 7,23 (d, <i>J</i> = 2,88 Hz, 1H, arom.), 7,17 (dd, <i>J</i> = 8,88, 2,91 Hz, 1H, arom.), 2,58 (s, 3H, CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 195,3; 158,6; 154,0; 148,0; 146,9; 124,4; 122,7; 118,69; 117,0; 114,1; 30,0.

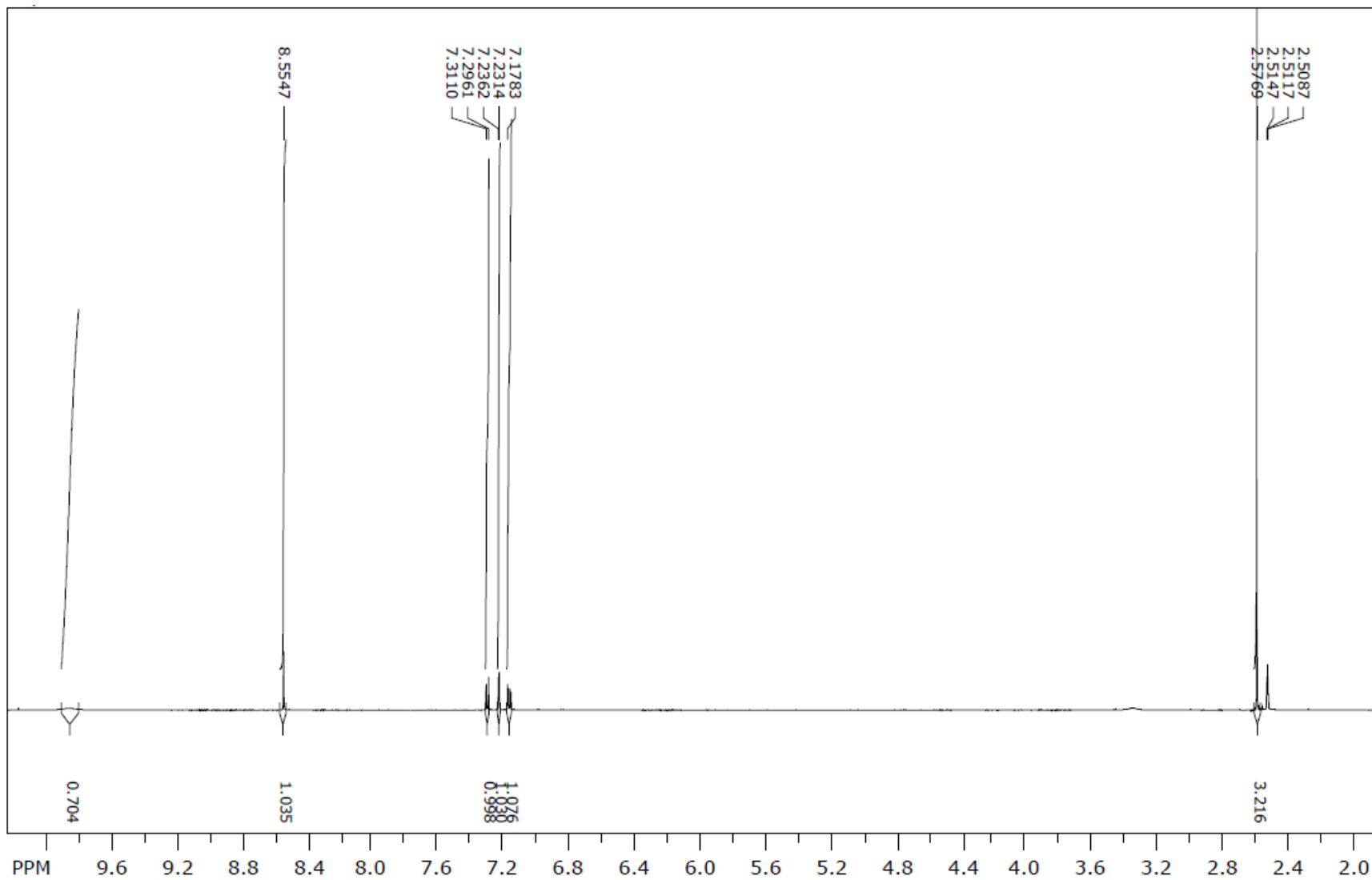
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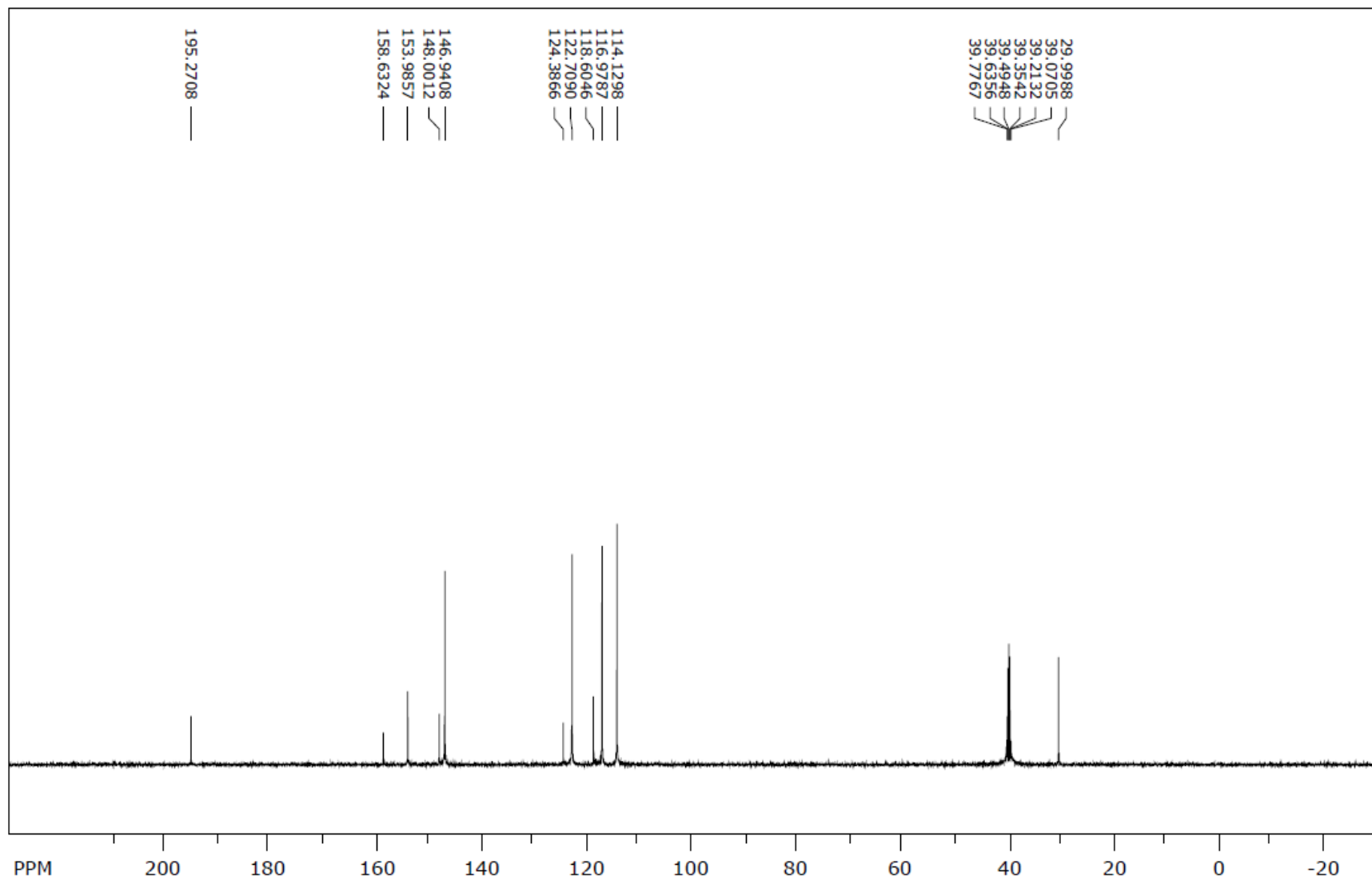
### Maseni spektar (5c)



**<sup>1</sup>H NMR spektr (5c)**



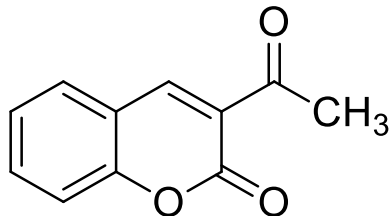
**<sup>13</sup>C NMR spektr (5c)**



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**3-acetil-2H-kromen-2-on (5d)**

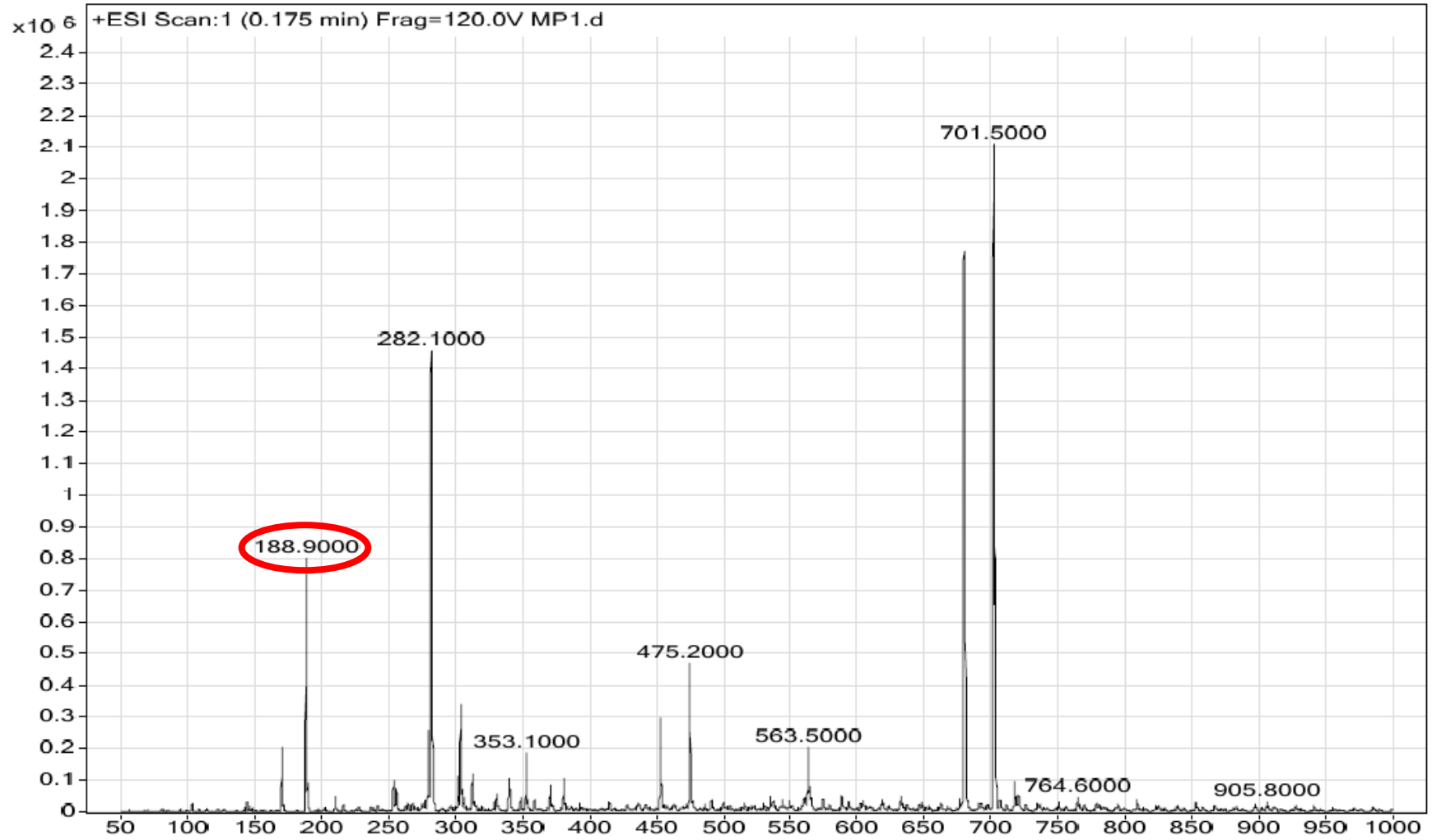
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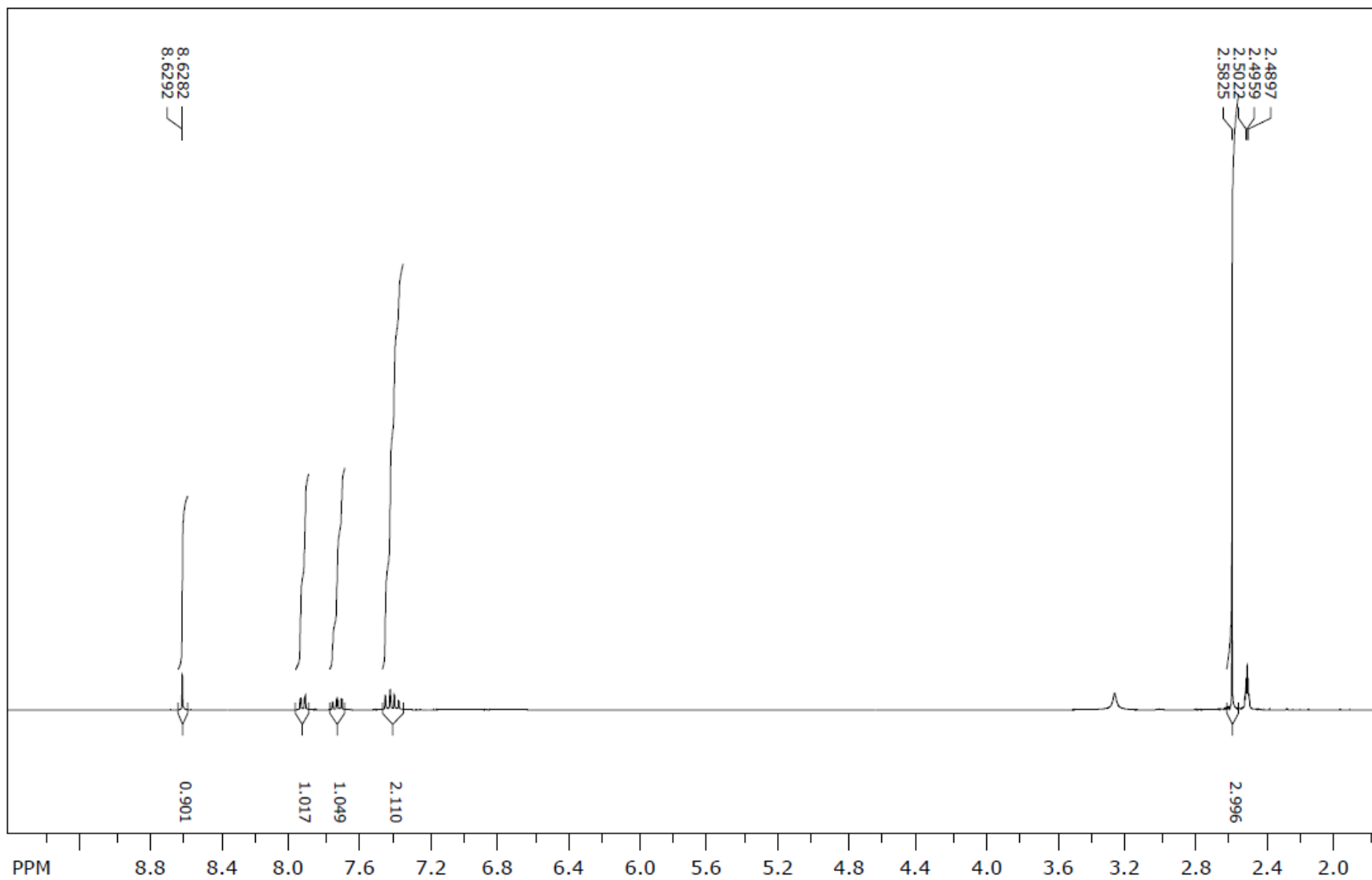
<b>Reaktanti</b>	Salicilaldehid (9,4 mmol) i etilacetoacetat (9,4 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz etanola i metanola
<b>Molekulska masa</b>	188,17 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>8</sub> O <sub>3</sub>
<b>Temperatura tališta</b>	121 – 122 °C (lit. 118 °C, Phadtare i Shankarling, 2012)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,79
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	188,90
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,63 (s, 1H, coum.), 7,94 (dd, <i>J</i> = 7,71, 1,58 Hz, 1H, arom.), 7,71 – 7,76 (m, 1H, arom.), 7,38 - 7,46 (m, 2H, arom.), 2,58 (s, 3H, CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, CDCl <sub>3</sub> ) δ 147,4; 134,9; 131,2; 125,4; 116,6; 30,4.

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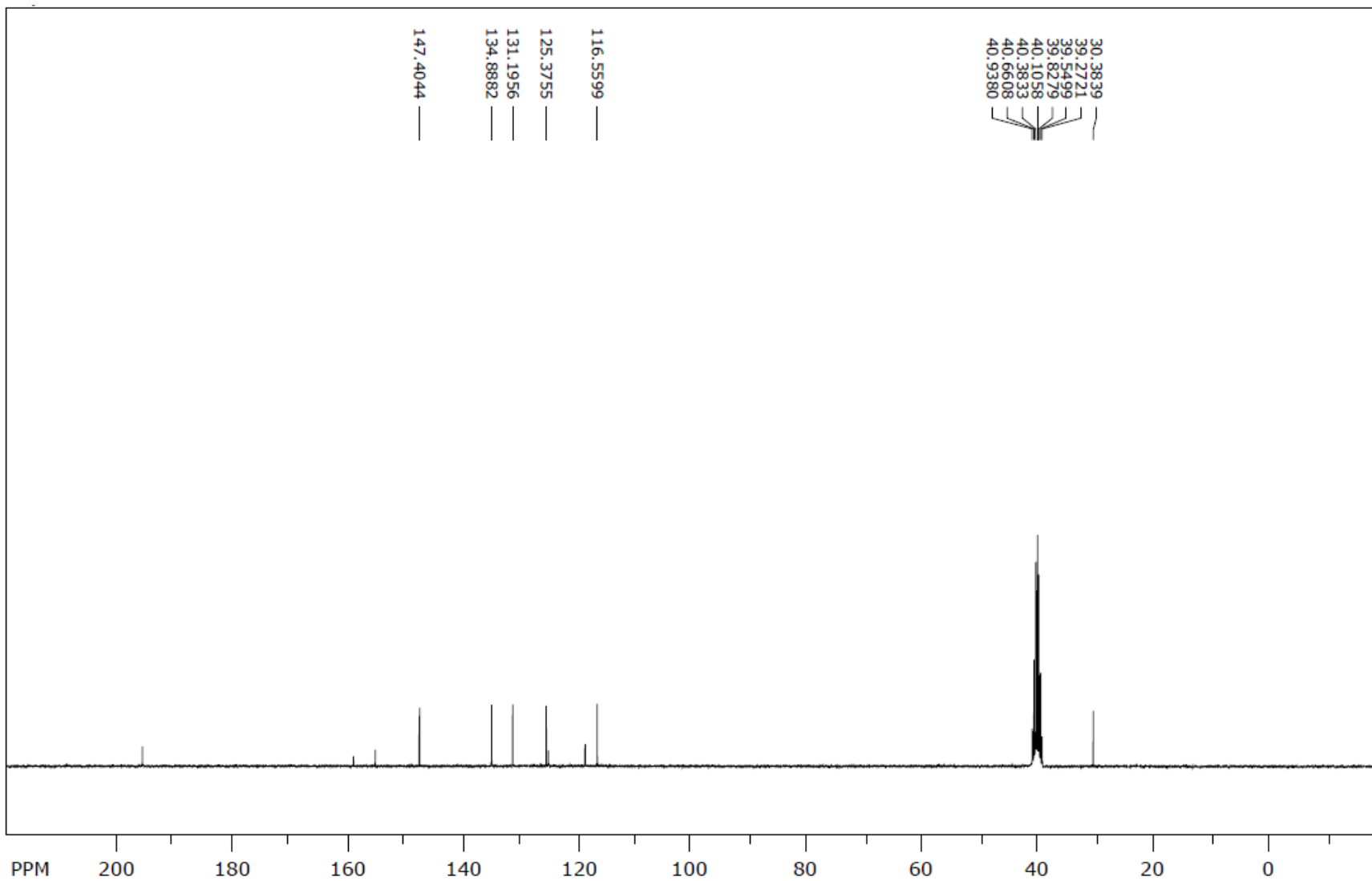
### Maseni spektr (5d)



<sup>1</sup>H NMR spektr (5d)



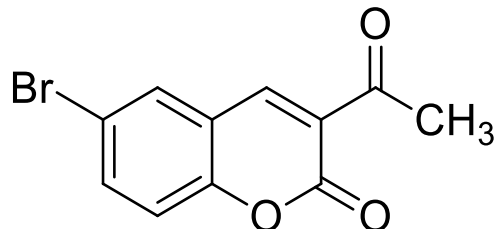
# <sup>13</sup>C NMR spektr (5d)



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**3-acetil-6-brom-2H-kromen-2-on (5e)**

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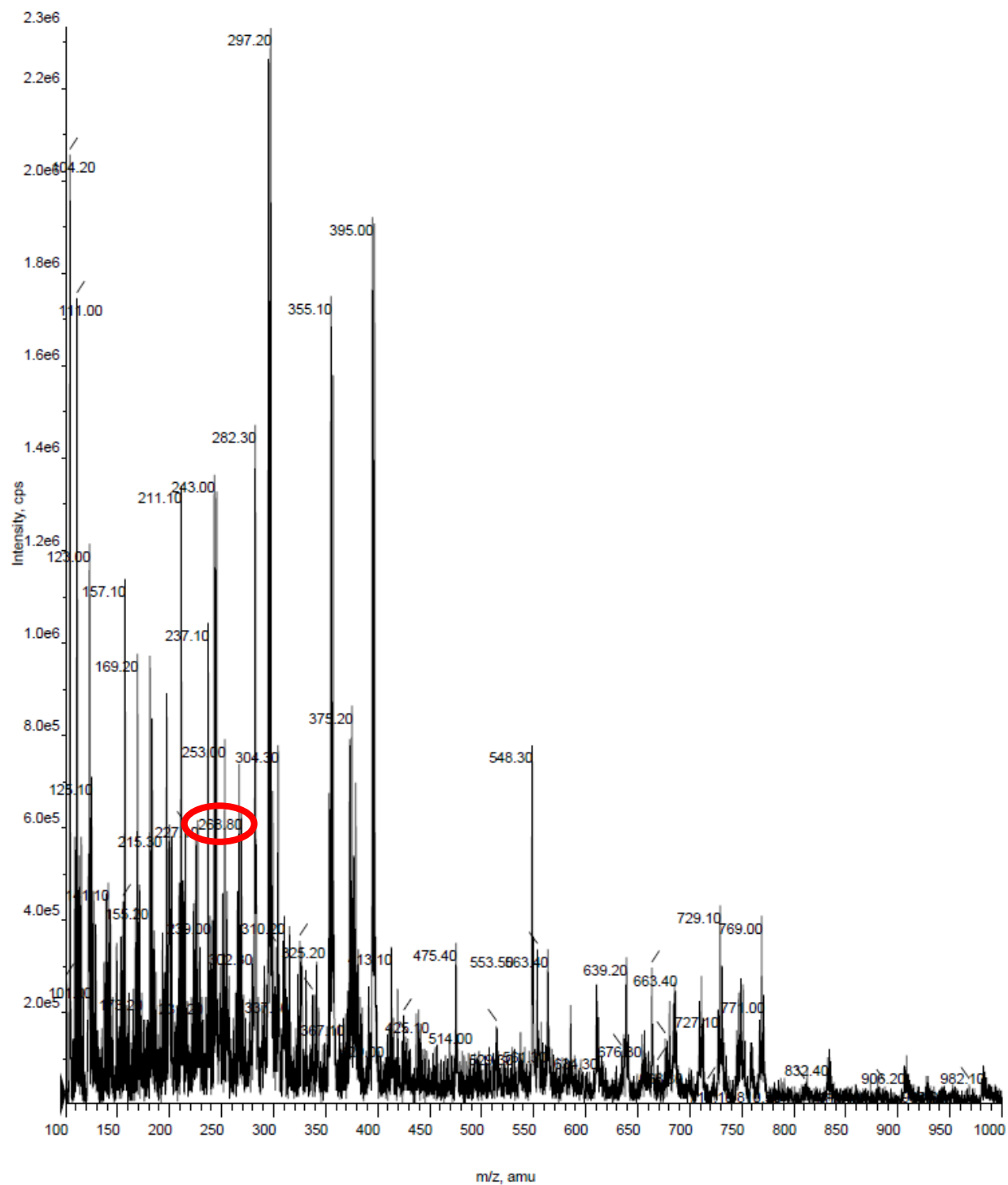
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<b>Reaktanti</b>	5-bromsalicilaldehid (4,9 mmol) i etilacetoacetat (4,9 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	267,08 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>7</sub> BrO <sub>3</sub>
<b>Temperatura tališta</b>	229 – 232 °C (lit. 231 – 233 °C, Liu i sur., 2008)
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,84
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	268,80
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,58 (s, 1H, coum.), 8,20 (d, <i>J</i> = 2,43 Hz, 1H, arom.), 7,87 (dd, <i>J</i> = 8,85, 2,43 Hz, 1H, arom.), 7,43 (d, <i>J</i> = 8,85 Hz, 1H, arom.), 2,58 (s, 3H, CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, CDCl <sub>3</sub> ) δ 195,4; 158,4; 154,1; 146,0; 137,0; 133,0; 118,9; 116,8; 30,34.

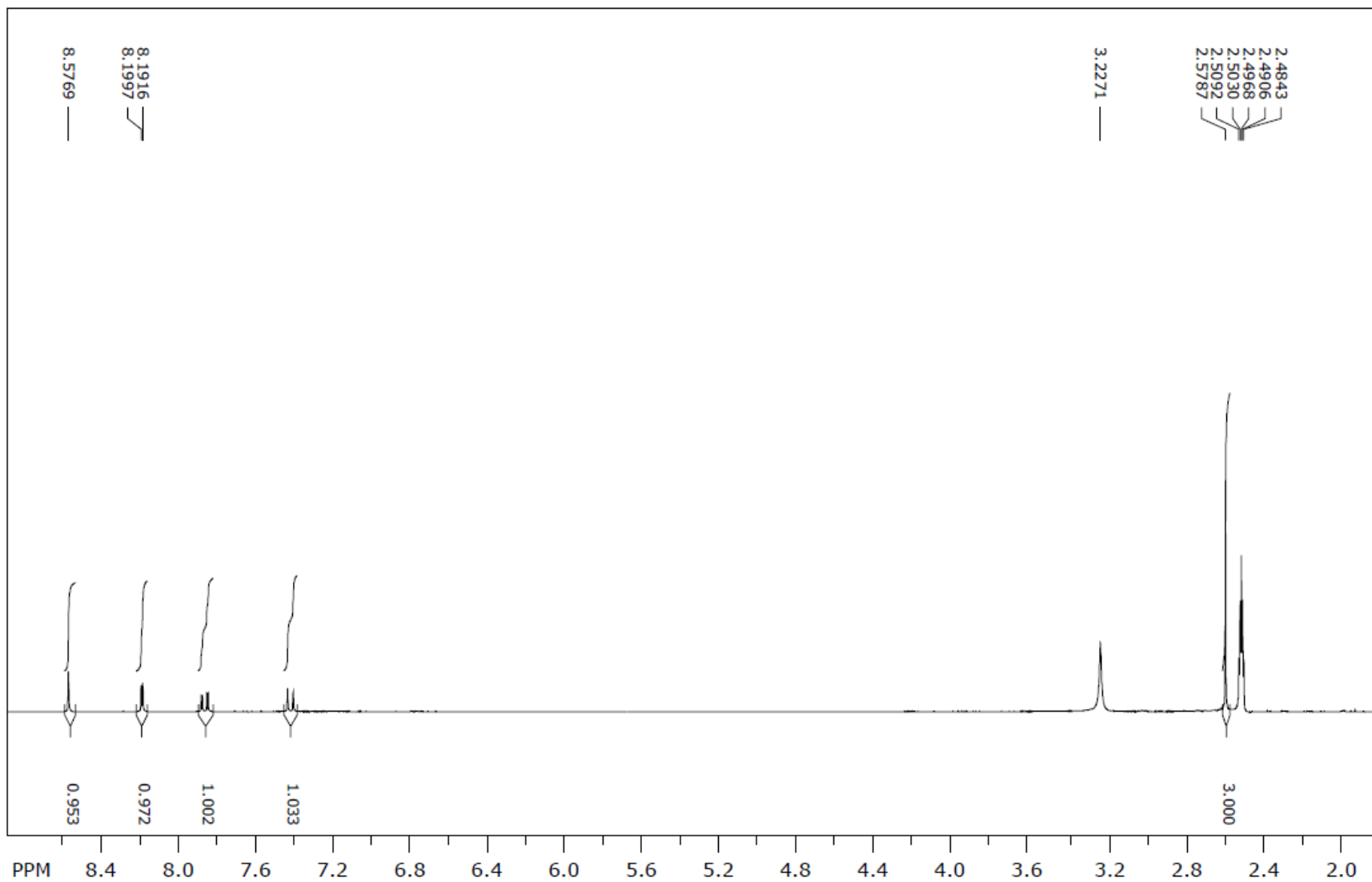
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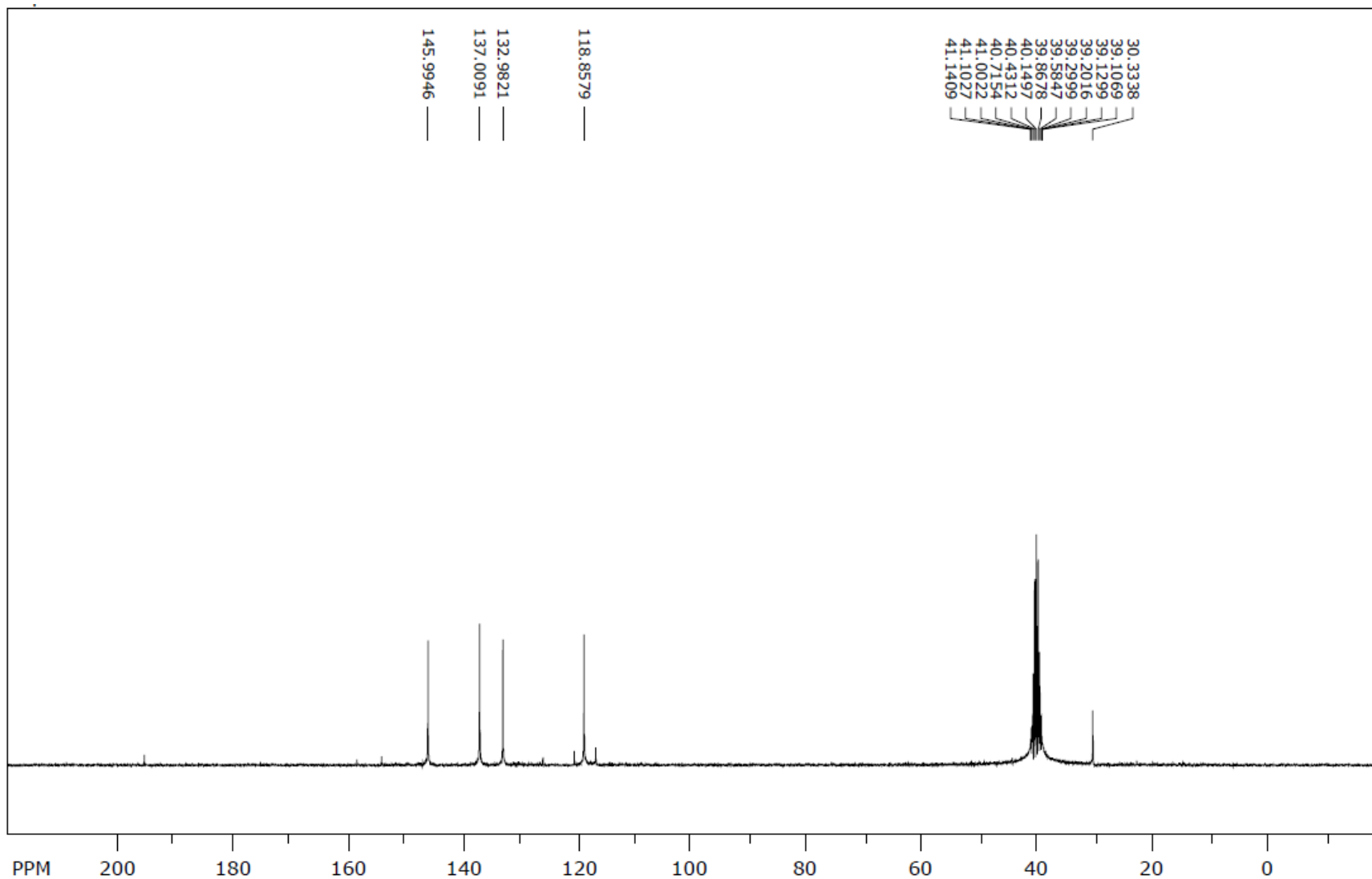
# Maseni spektr (5e)



**<sup>1</sup>H NMR spektr (5e)**



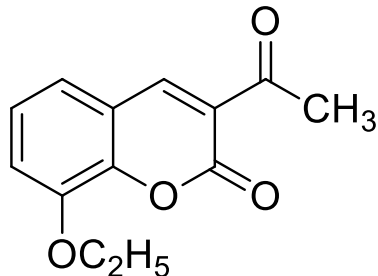
**<sup>13</sup>C NMR spektr (5e)**



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**3-acetil-8-etoksi-2H-kromen-2-on (5f)**

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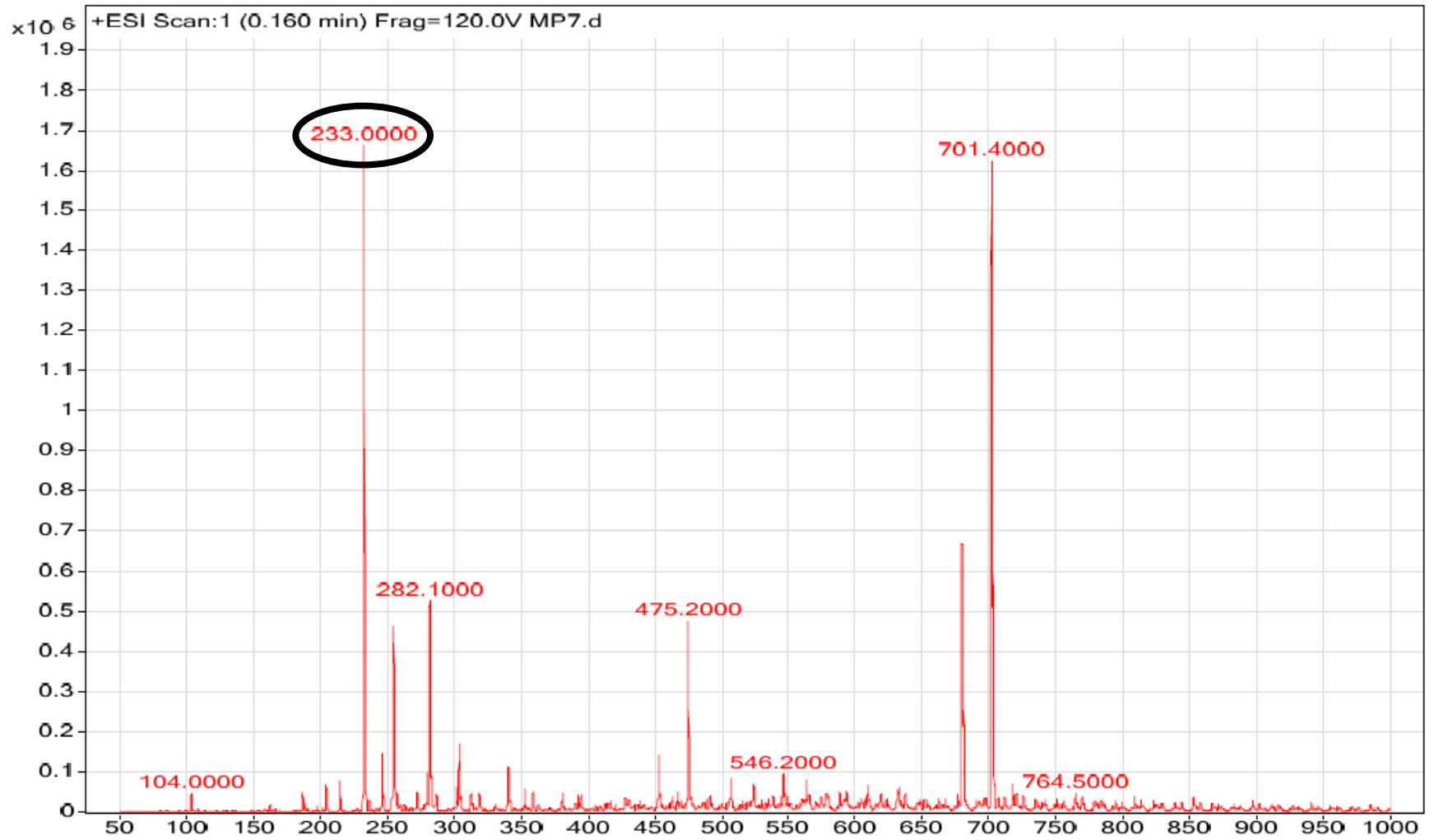


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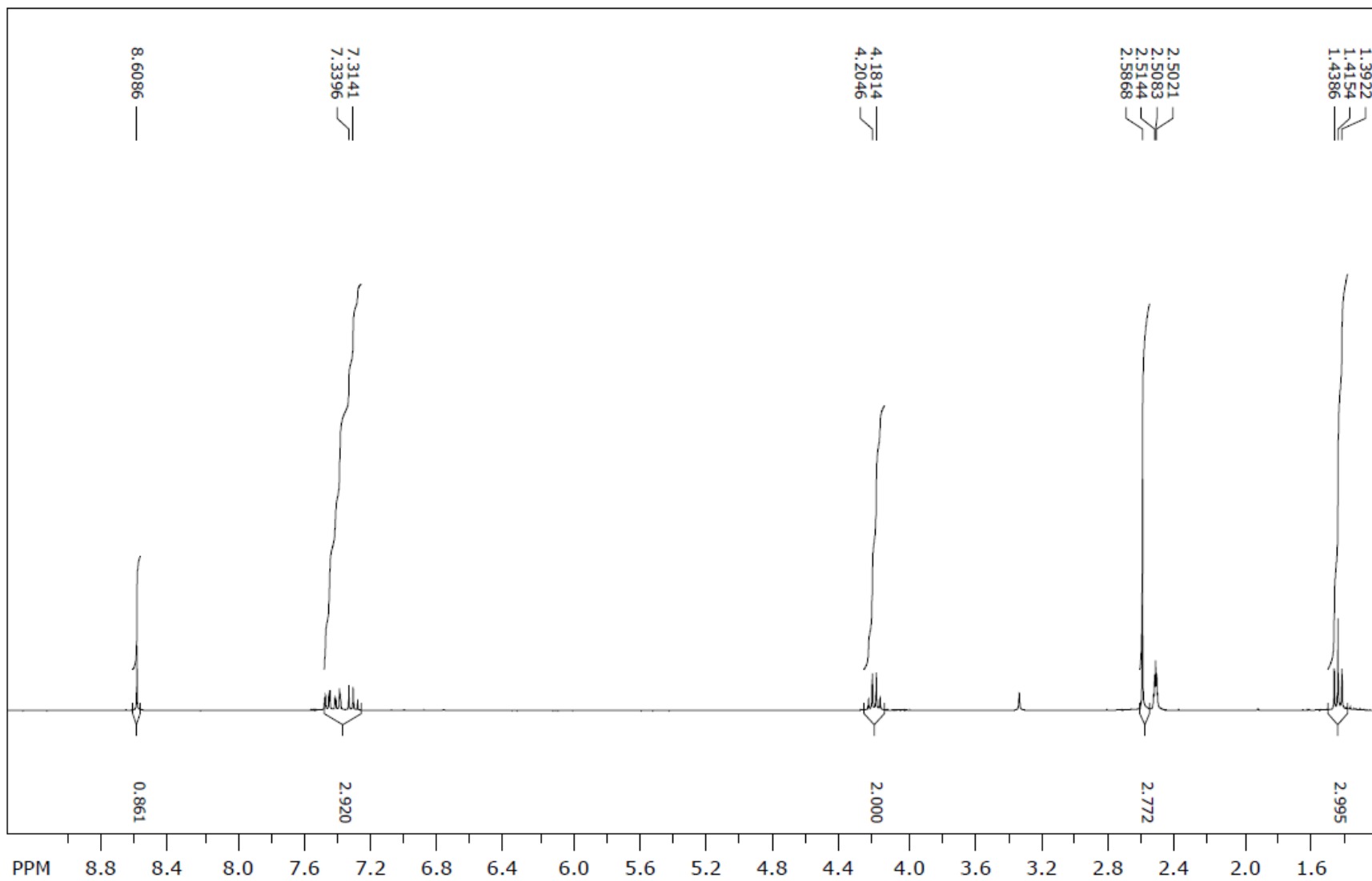
<b>Reaktanti</b>	3-etoksisalicilaldehid (6,0 mmol) i etilacetoacetat (6,0 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	232,23 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>12</sub> O <sub>4</sub>
<b>Temperatura tališta</b>	139 – 141 °C
<b>Boja kristala</b>	Svijetložuta
<b>R<sub>f</sub></b>	0,79
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	233,00
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,61 (s, 1H, coum.), 7,46 (dd, <i>J</i> = 7,65, 1,50 Hz, 1H, arom.), 7,41 (dd, <i>J</i> = 8,19, 1,53 Hz, 1H, arom.), 7,31 (t, <i>J</i> = 7,65, 8,10 Hz, 1H, arom.) 4,19 (q, <i>J</i> = 6,97 Hz, 2H, CH <sub>2</sub> CH <sub>3</sub> ), 2,59 (s, 3H, CH <sub>3</sub> ), 1,42 (t, <i>J</i> = 6,96 Hz, 3H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, CDCl <sub>3</sub> ) δ 195,6; 158,7; 147,8; 145,9; 144,5; 125,3; 122,1; 119,3; 117,8; 64,9; 30,5; 15,0.

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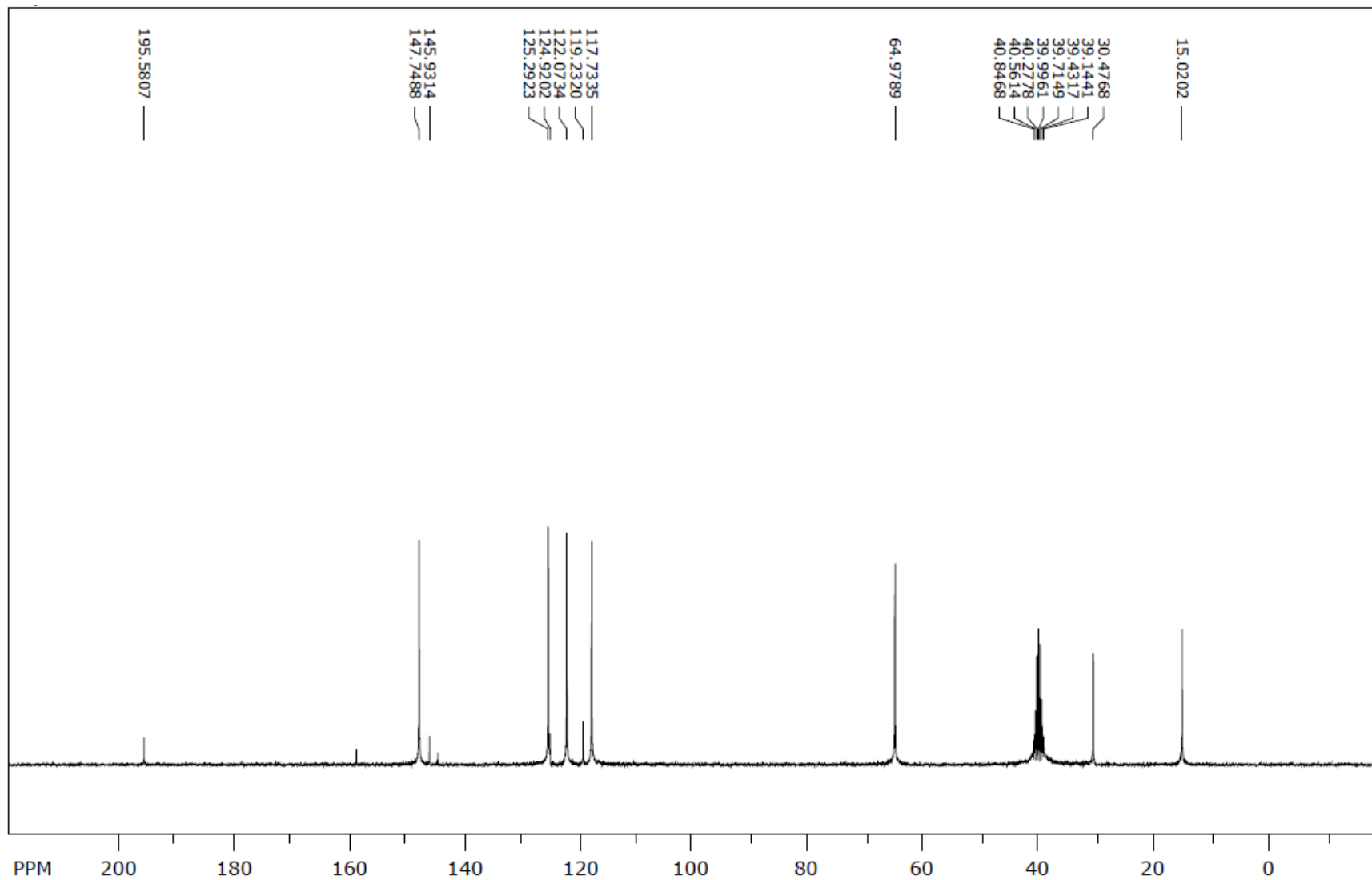
### Maseni spektr (5f)



<sup>1</sup>H NMR spektr (5f)



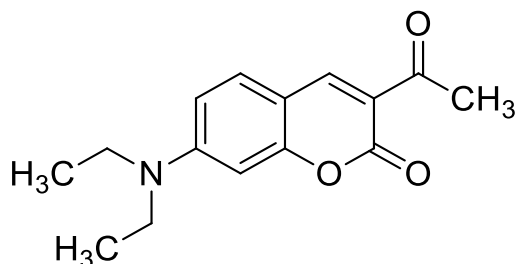
<sup>13</sup>C NMR spektr (5f)



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**3-acetil-7-(dietilamino)-2H-kromen-2-on (5g)**

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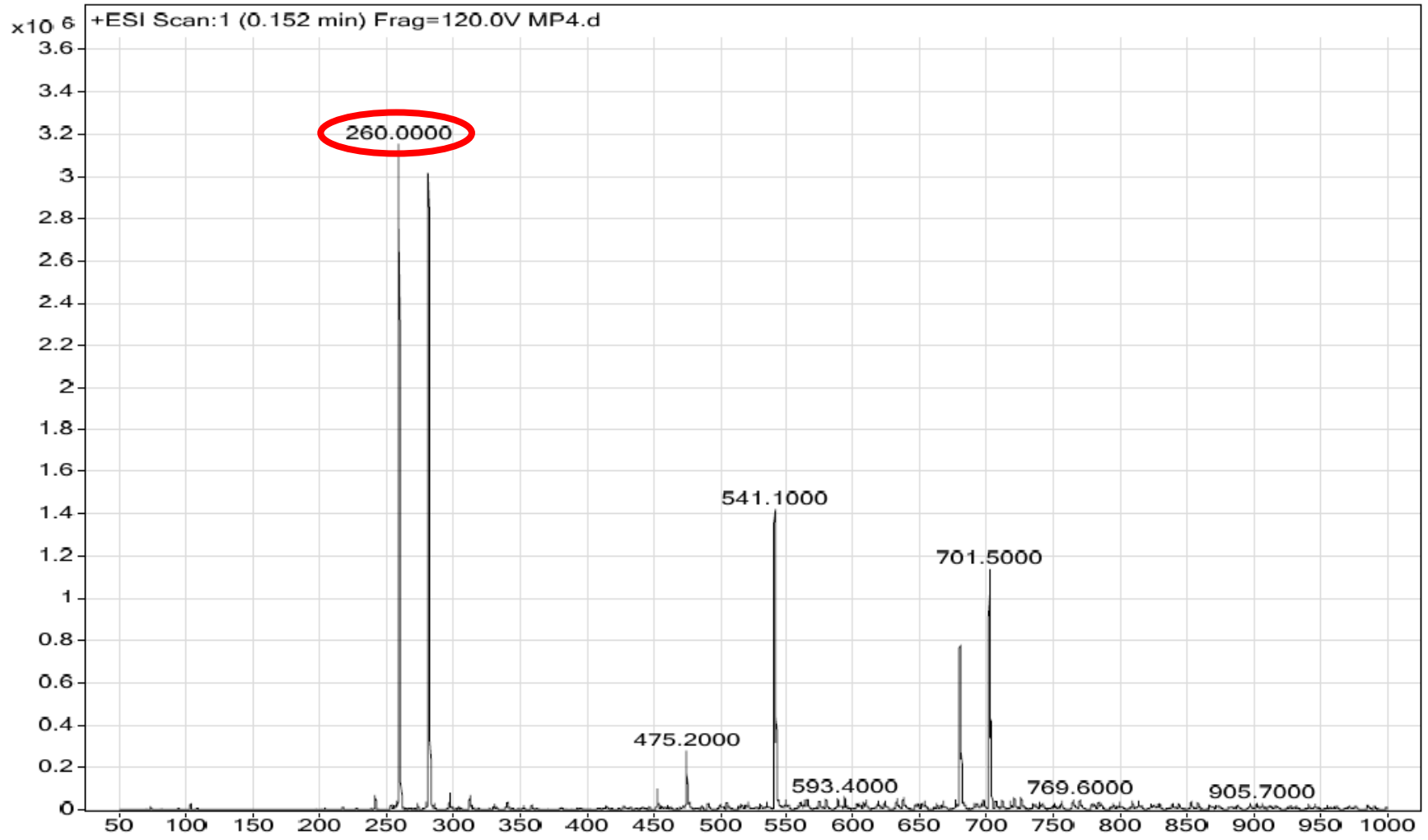
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<b>Reaktanti</b>	4-(dietilamino)salicilaldehid (2,6 mmol) i etilacetoacetat (2,6 mmol)
<b>Metoda pročiščavanja</b>	Prekristalizacija iz etanola
<b>Molekulska masa</b>	259,30 g/mol
<b>Molekulska formula</b>	C <sub>15</sub> H <sub>17</sub> NO <sub>3</sub>
<b>Temperatura tališta</b>	153 – 156 °C (lit. 152 – 153 °C, Bogdač, 1998)
<b>Boja kristala</b>	Tamnožuta
<b>R<sub>f</sub></b>	0,72
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	260,00
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,48 (s, 1H, coum.), 7,65 (d, <i>J</i> = 9,00 Hz, 1H, arom.), 6,79 (dd, <i>J</i> = 9,06, 2,46 Hz, 1H, arom.), 6,56 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 3,49 (q, <i>J</i> = 7,06 Hz, 4H, CH <sub>2</sub> CH <sub>3</sub> ), 2,49 - 2,51 (m, 3H, CH <sub>3</sub> ), 1,14 (t, <i>J</i> = 7,05 Hz, 6H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, CDCl <sub>3</sub> ) δ 194,2; 147,6; 132,4; 110,1; 107,5; 95,8; 44,4; 30,1; 12,3.

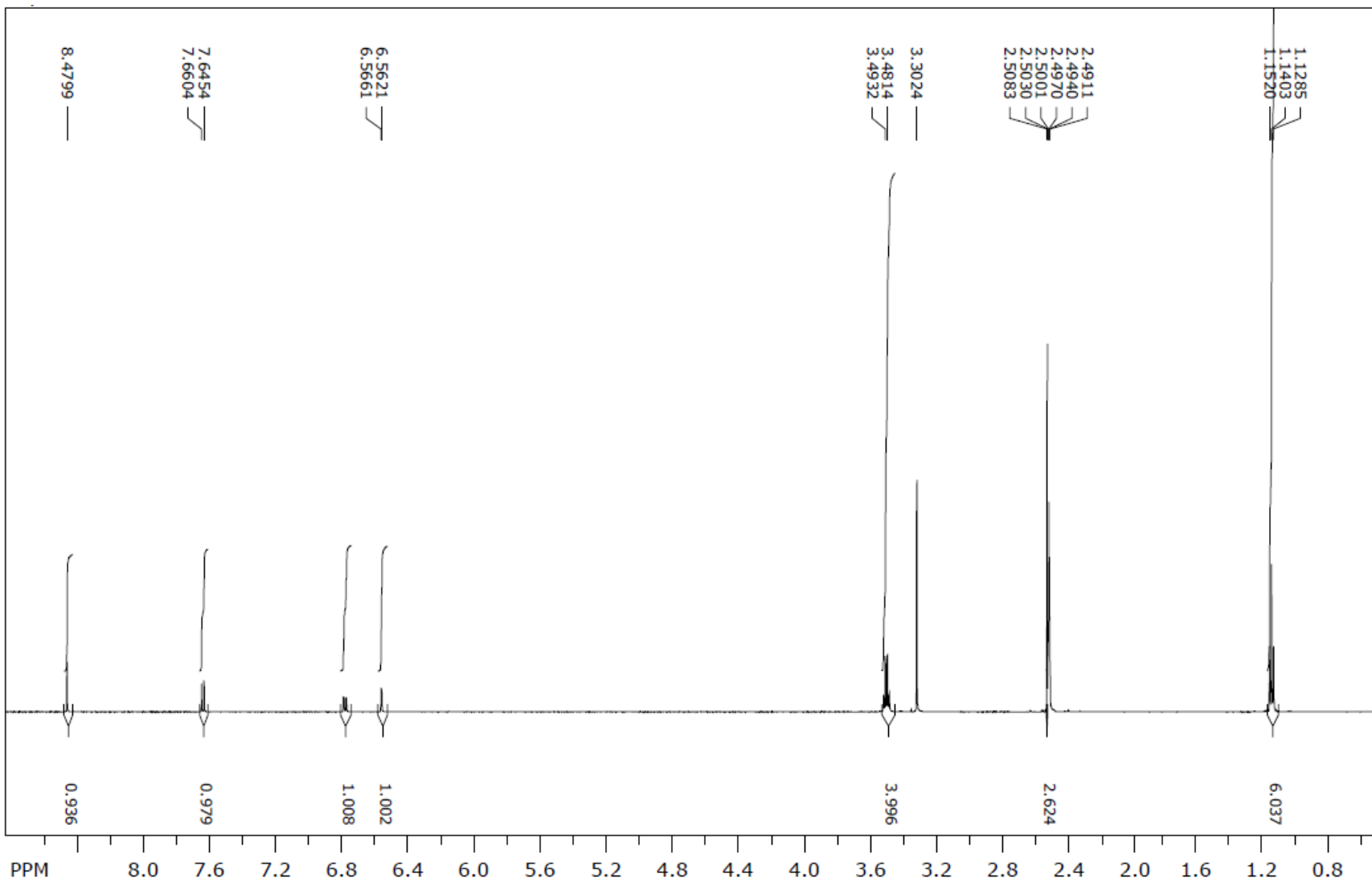
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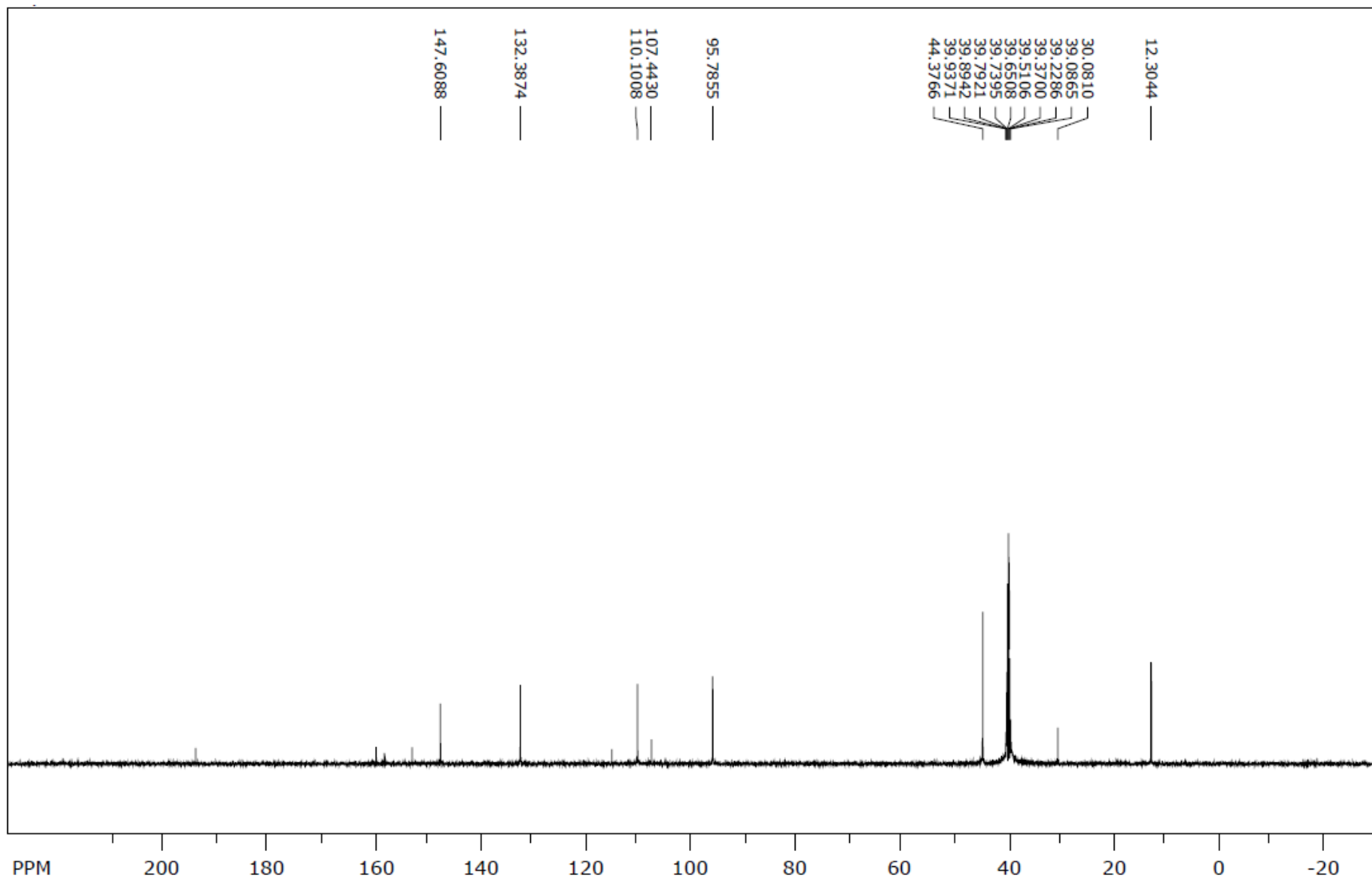
### Maseni spektr (5g)



# <sup>1</sup>H NMR spektr (5g)



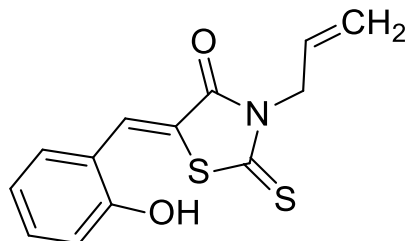
**<sup>13</sup>C NMR spektr (5g)**



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**3-alil-5-(2-hidroksibenziliden)-2-tioksotiazolidin-4-on (6a)**

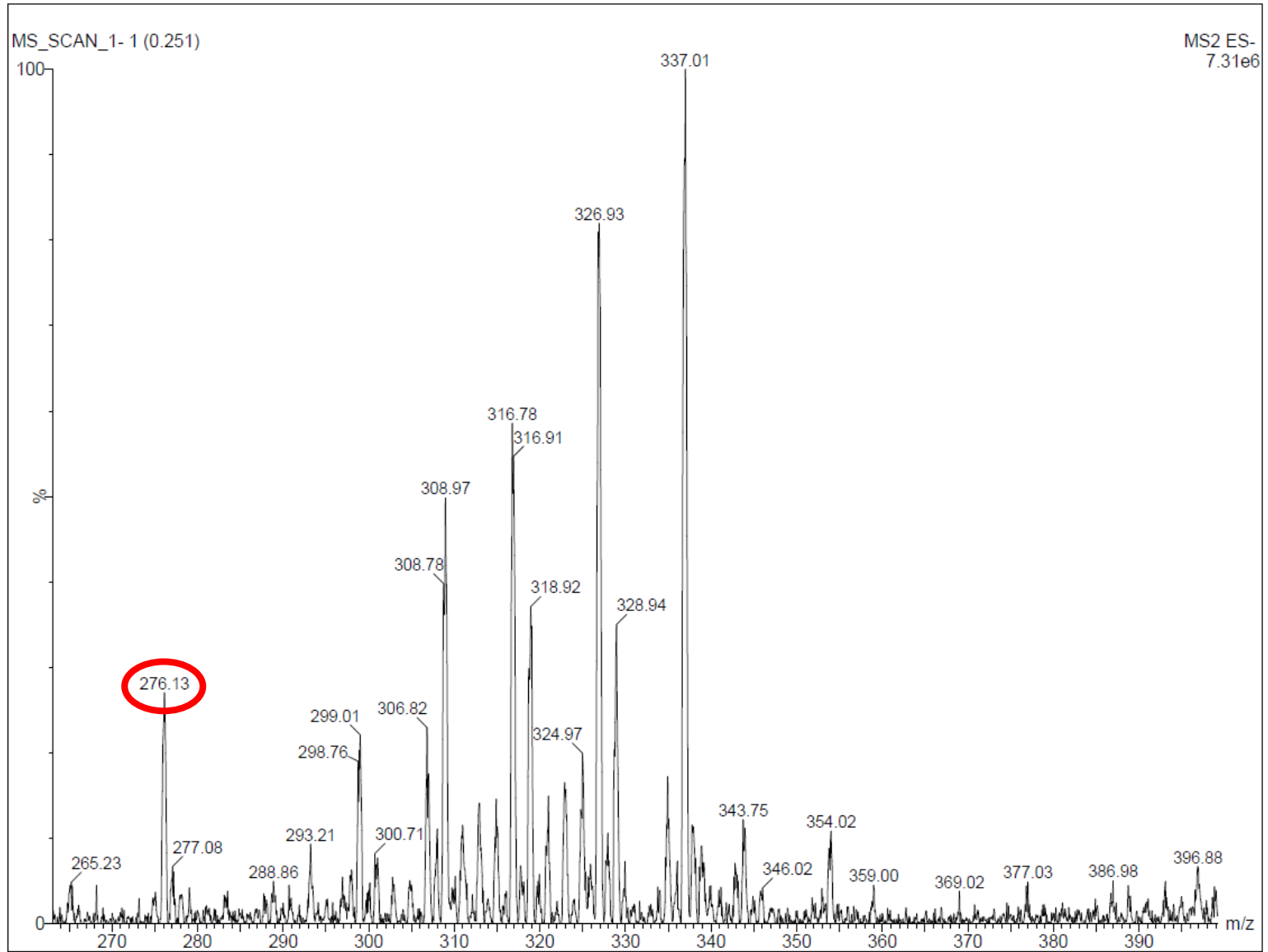
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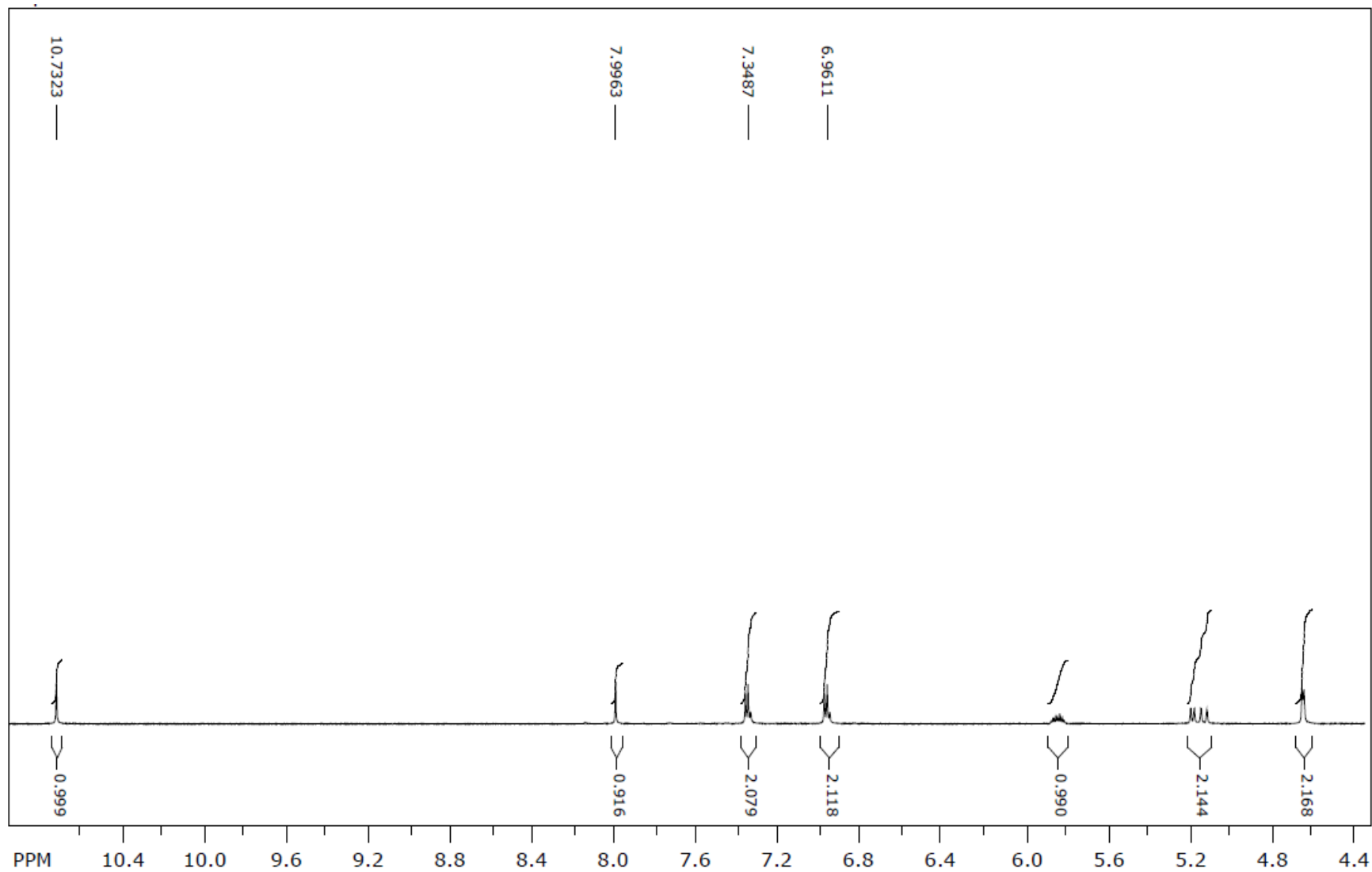
<b>Reaktanti</b>	Salicilaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	277,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	180 – 182 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,72
<b>LC/MS/MS <i>m/z</i> (M-)</b>	276,13
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,73 (s, 1H, OH), 7,96 (s, 1H, CH), 7,35 (t, <i>J</i> = 7,60 Hz, 2H, arom.), 6,95 (t, <i>J</i> = 8,04, 7,68 Hz, 2H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,17 (dd, <i>J</i> = 10,32; 0,84 Hz, 1H, CH <sub>2</sub> ), 5,12 (dd, <i>J</i> = 17,28; 0,84 Hz, 1H, CH <sub>2</sub> ) 4,63 (d, <i>J</i> = 5,16 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,47; 166,69; 157,59; 133,1; 129,6; 128,6; 120,6; 117,7; 117,5; 116,28; 45,9.

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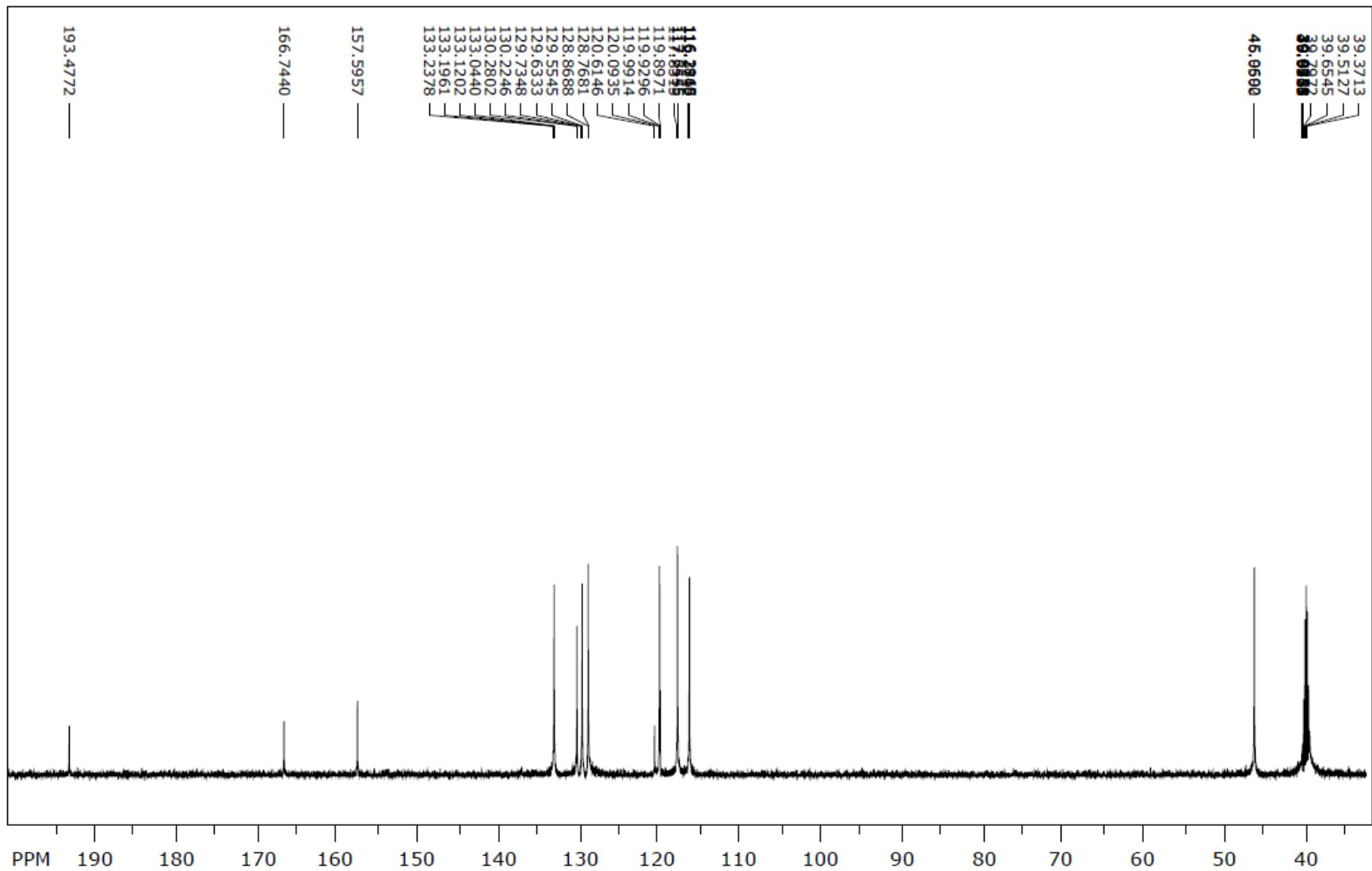
# Maseni spektr (6a)



**<sup>1</sup>H NMR spektr (6a)**



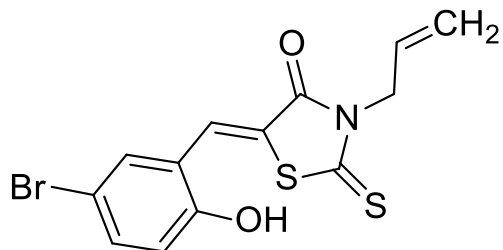
**<sup>13</sup>C NMR spektr (6a)**



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**3-alil-5-(5-brom-2-hidroksibenziliden)-2-tioksotiazolidin-4-on (6b)**

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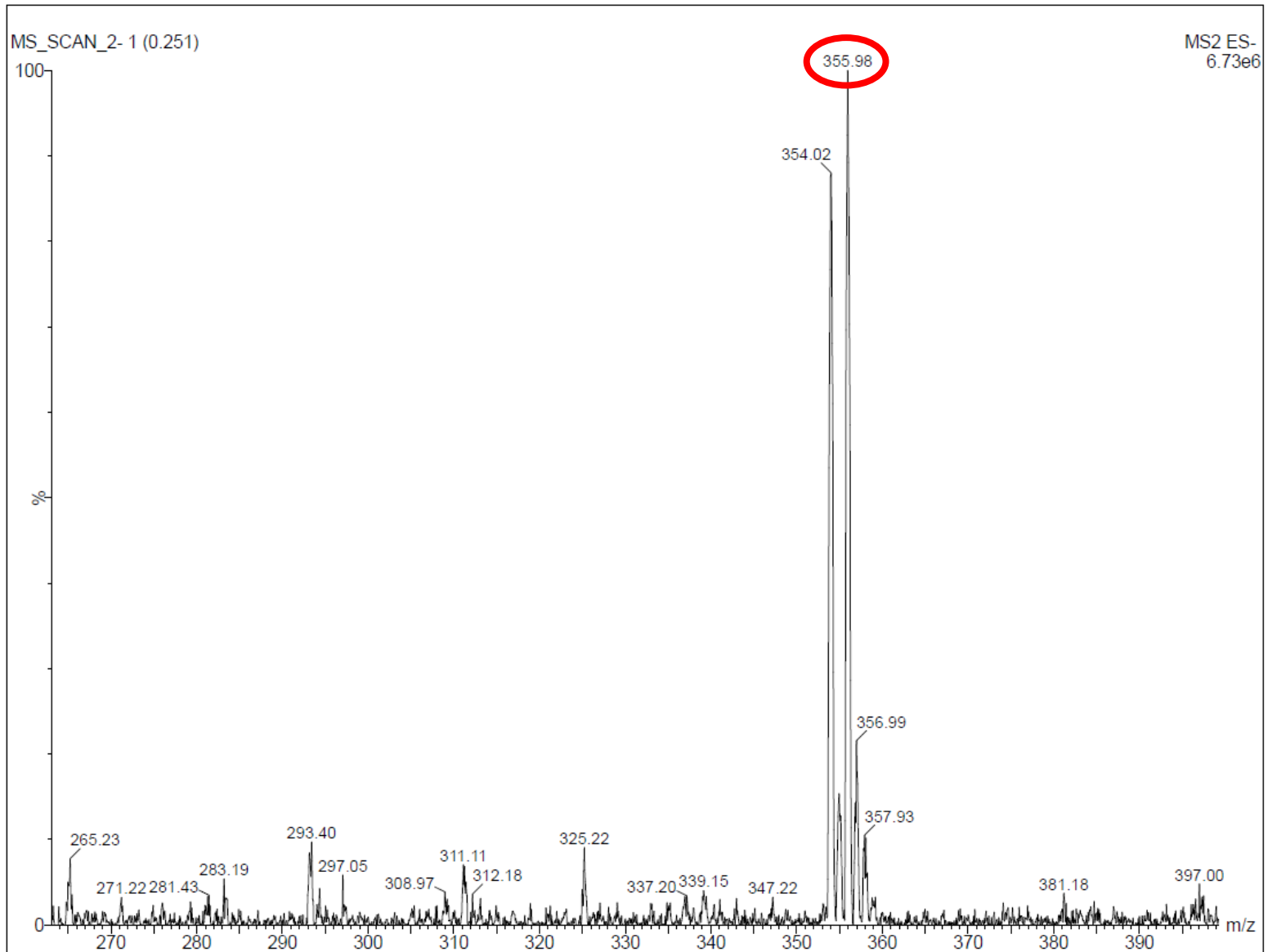


<b>Reaktanti</b>	5-bromsalicilaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	356,26 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> BrNO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	203 – 204 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,71
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	355,98
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 11,10 (s, 1H, OH), 7,84 (s, 1H, CH), 7,49 (dd, <i>J</i> = 8,70; 2,19 Hz, 1H, arom.), 7,44 (d, <i>J</i> = 2,04 Hz, 1H, arom.), 6,93 (d, <i>J</i> = 8,76 Hz, 1H, arom.), 5,81 – 5,85 (m, 1H, CH), 5,18 (d, <i>J</i> = 10,08 Hz, 1H, CH <sub>2</sub> ), 5,12 (d, <i>J</i> = 17,22 Hz, 1H, CH <sub>2</sub> ), 4,63 (d, <i>J</i> = 5,04 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,19; 166,57; 156,46; 135,18; 131,66; 130,20; 127,48; 122,57; 122,12; 118,4; 117,8; 110,72; 46,03.

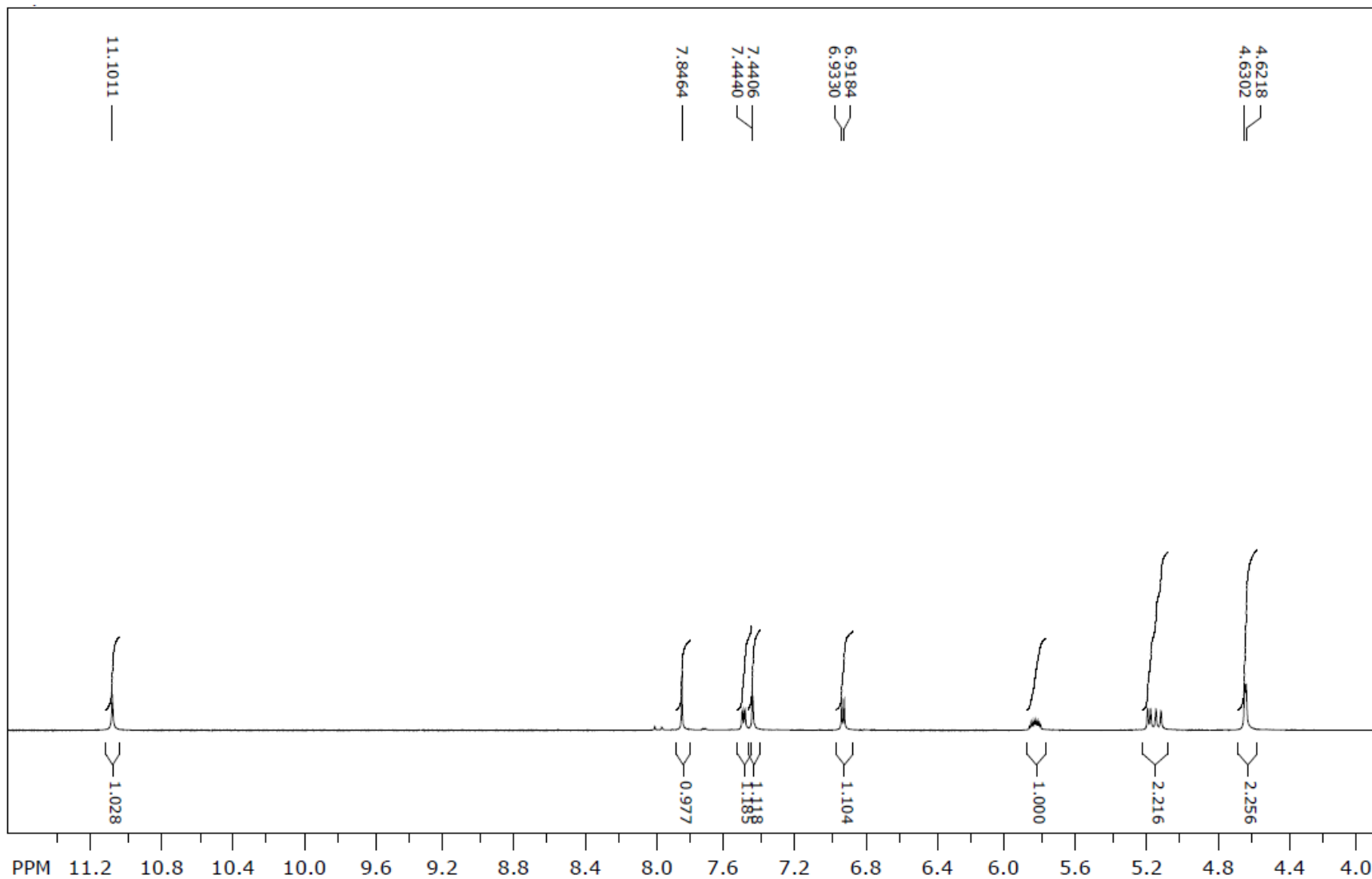
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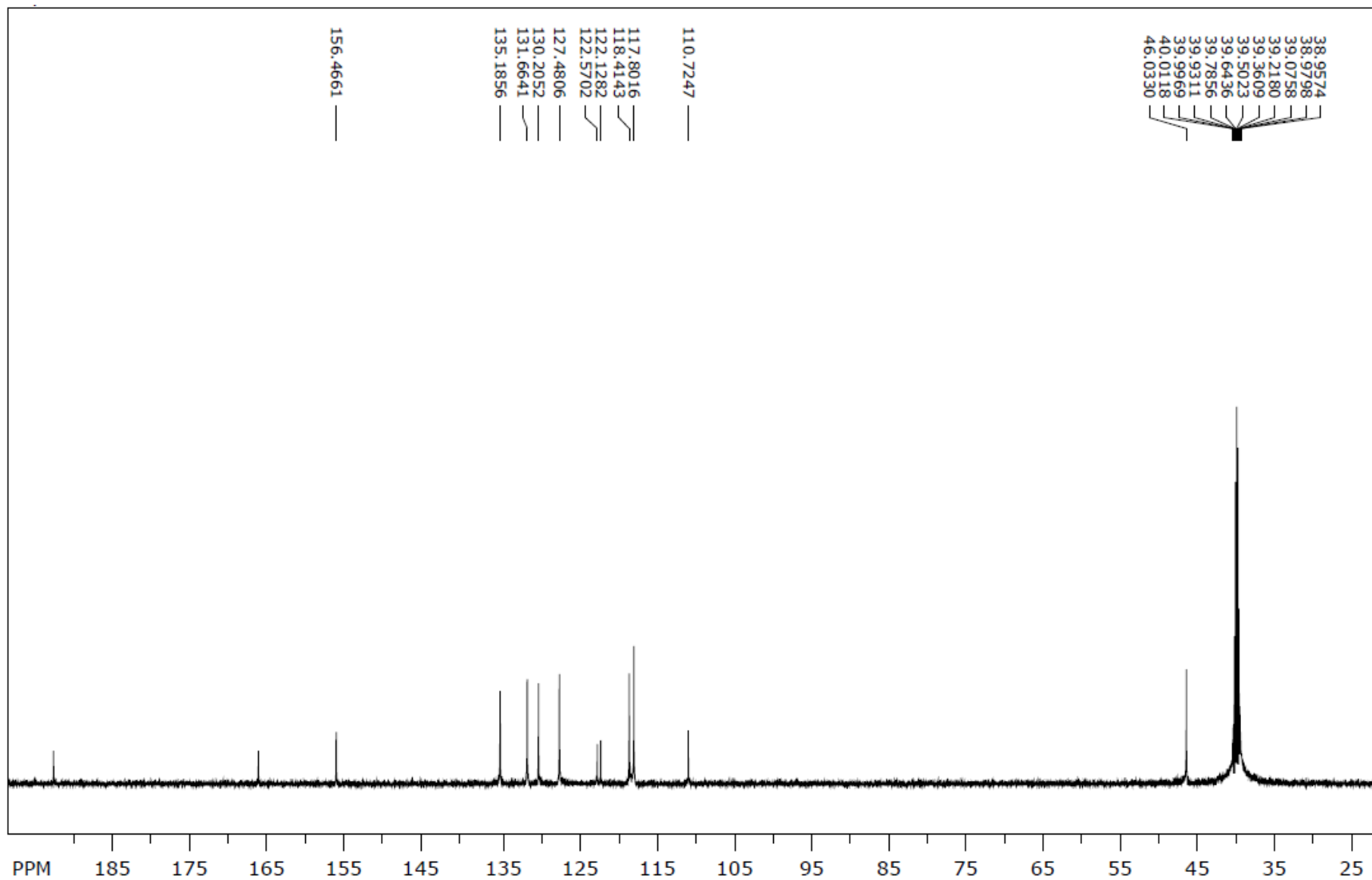
# Maseni spektar (6b)



<sup>1</sup>H NMR spektr (6b)



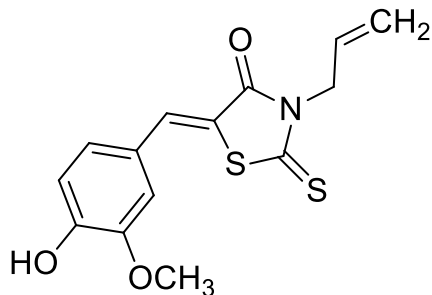
**<sup>13</sup>C NMR spektr (6b)**



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**3-alil-5-(4-hidroksi-3-metoksibenziliden)-2-thioxothiazolidin-4-one (6c)**

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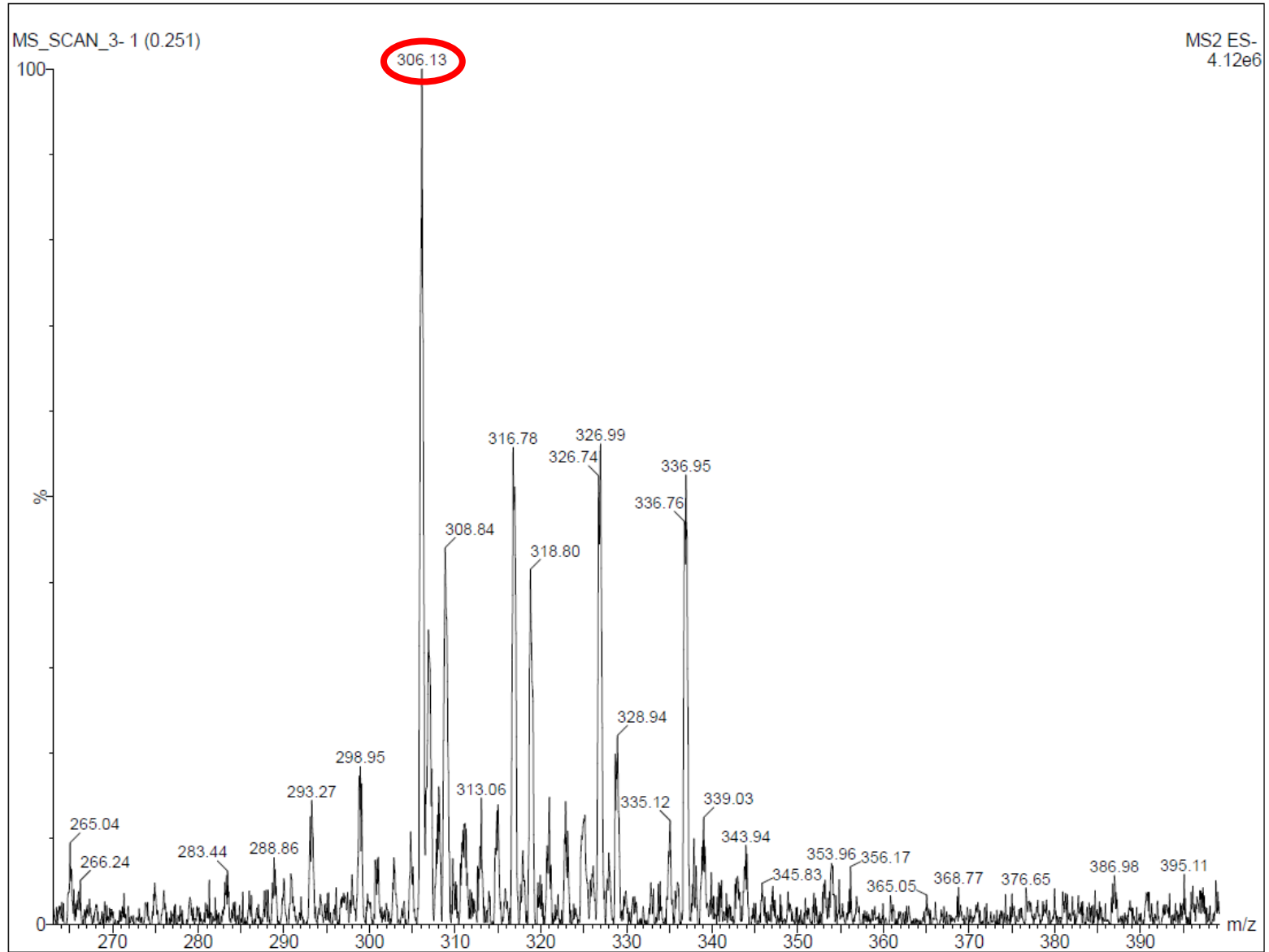


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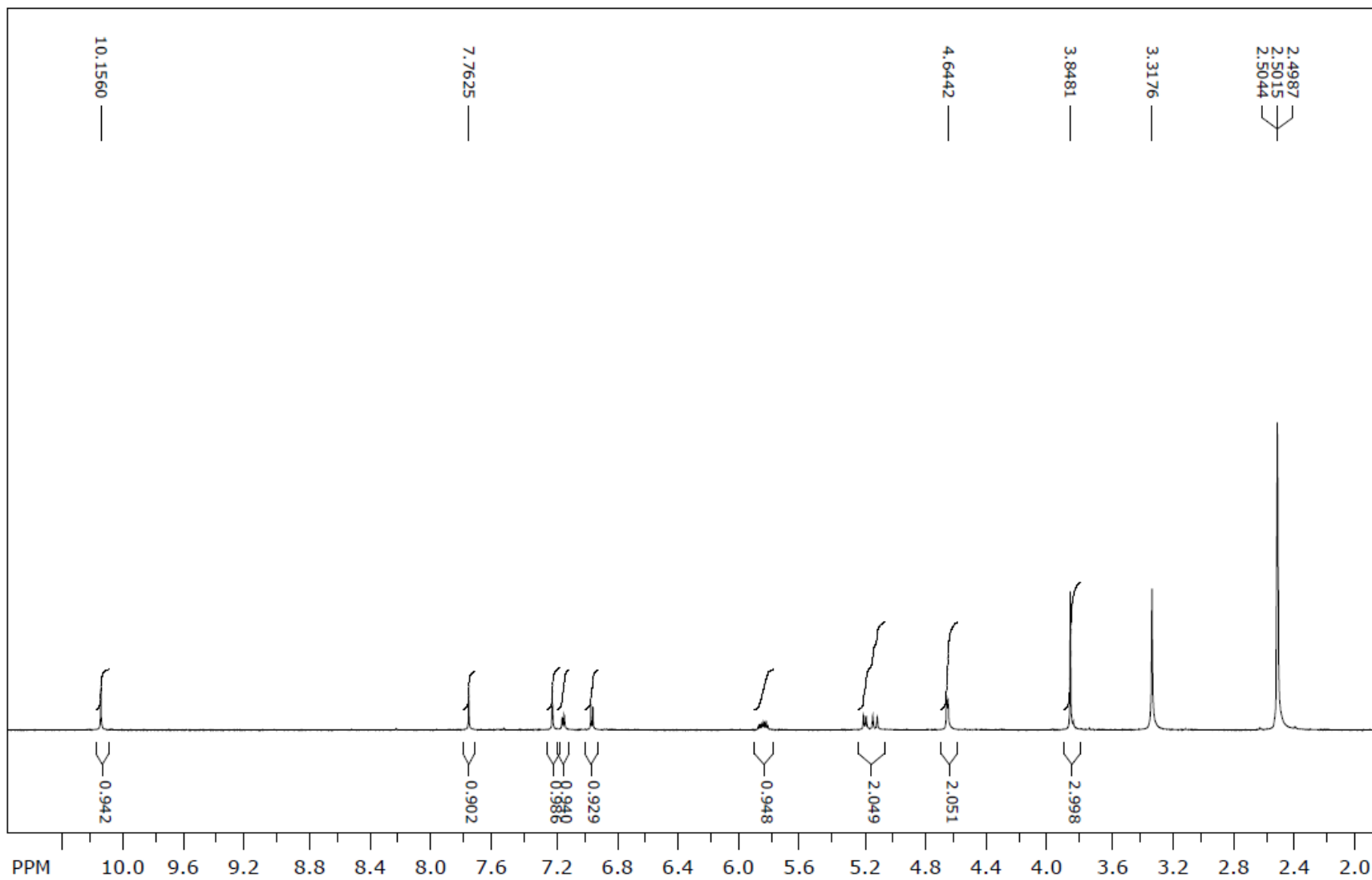
<b>Reaktanti</b>	3-metoksi-4-hidroksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	307,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	143 – 144 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,73
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	306,13
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,15 (s, 1H, OH), 7,76 (s, 1H, OH), 7,22 (d, <i>J</i> = 1,92 Hz, 1H, arom.), 7,15 (dd, <i>J</i> = 8,28; 1,92 Hz, 1H, arom.), 6,96 (d, <i>J</i> = 8,22 Hz, 1H, arom.), 5,82 – 5,88 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,32; 1,17 Hz, 1H, CH <sub>2</sub> ), 5,12 (dd, <i>J</i> = 17,28; 1,14 Hz, 1H, CH <sub>2</sub> ) 4,65 (d, <i>J</i> = 5,16 Hz, 1H, CH <sub>2</sub> ), 3,85 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,80; 166,42; 135,07; 134,07; 131,30; 130,49; 130,13; 128,25; 124,15; 117,84; 46,10.

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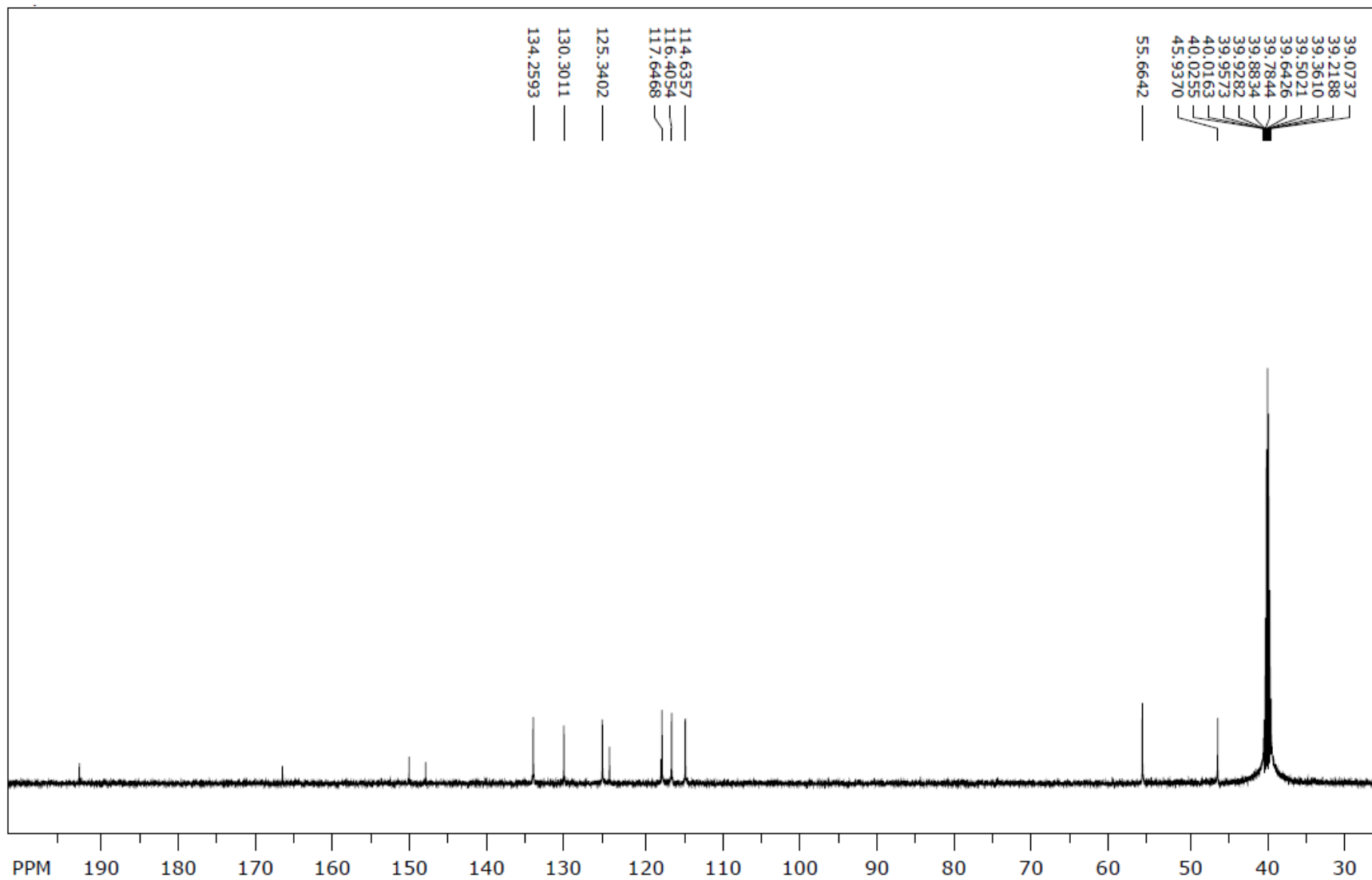
### Maseni spektar (6c)



<sup>1</sup>H NMR spektr (6c)



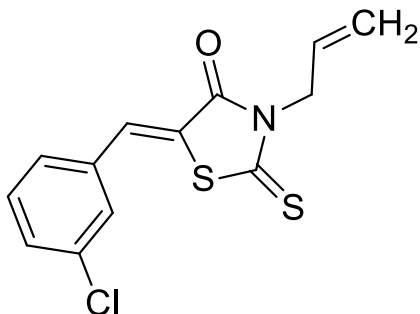
**<sup>13</sup>C NMR spektr (6c)**



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**3-alil-5-(3-klorbenziliden)-2-tioksotiazolidin-4-on (6d)**

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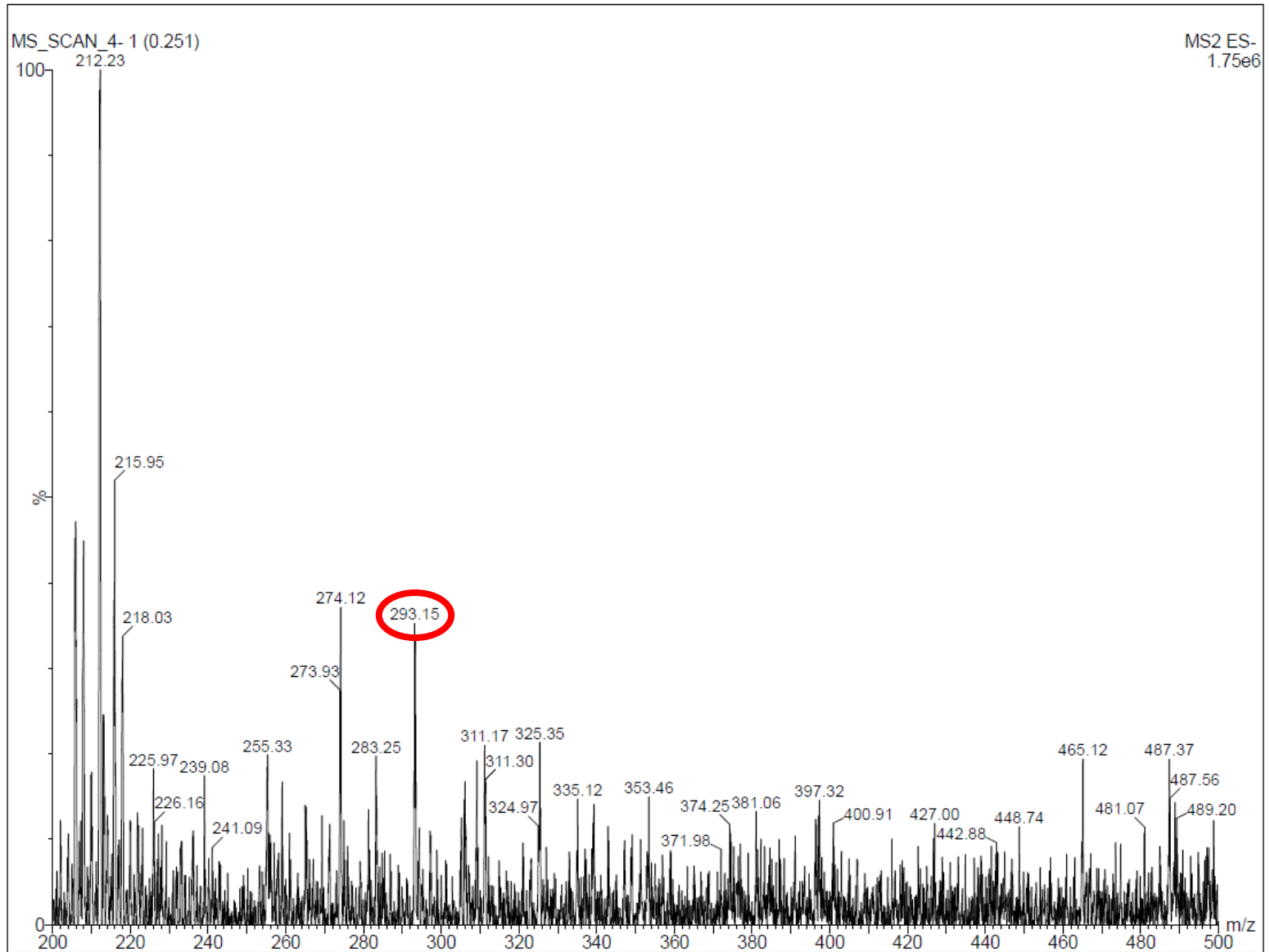
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<b>Reaktanti</b>	3-klorbenzaldehyd (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	295,81 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> ClNOS <sub>2</sub>
<b>Temperatura tališta</b>	106 -109 °C
<b>Boja kristala</b>	Tamnosmeđa
<b>R<sub>f</sub></b>	0,90
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	293,15
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,83 (s, 1H, CH), 7,75 (s, 1H, arom.), 7,59 (s, 3H, arom.), 5,82 – 5,88 (m, 1H, CH), 5,20 (dd, <i>J</i> = 10,38; 1,02 Hz, 1H, CH <sub>2</sub> ), 5,15 (dd, <i>J</i> = 17,16; 1,11 Hz, 1H, CH <sub>2</sub> ) 4,65 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,80; 166,42; 135,07; 134,07; 131,30; 130,49; 130,13; 128,25; 124,15; 117, 84; 46,10.

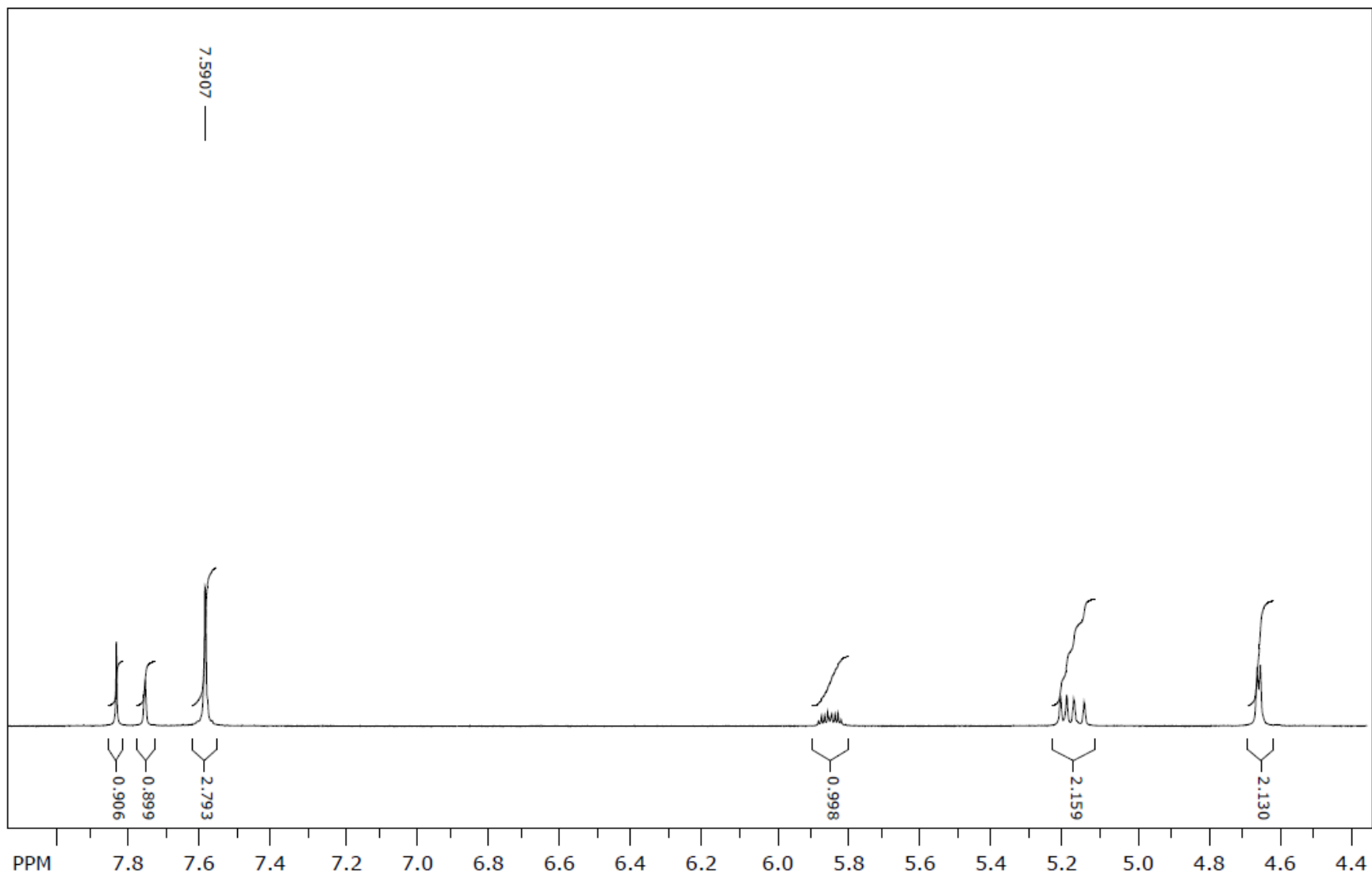
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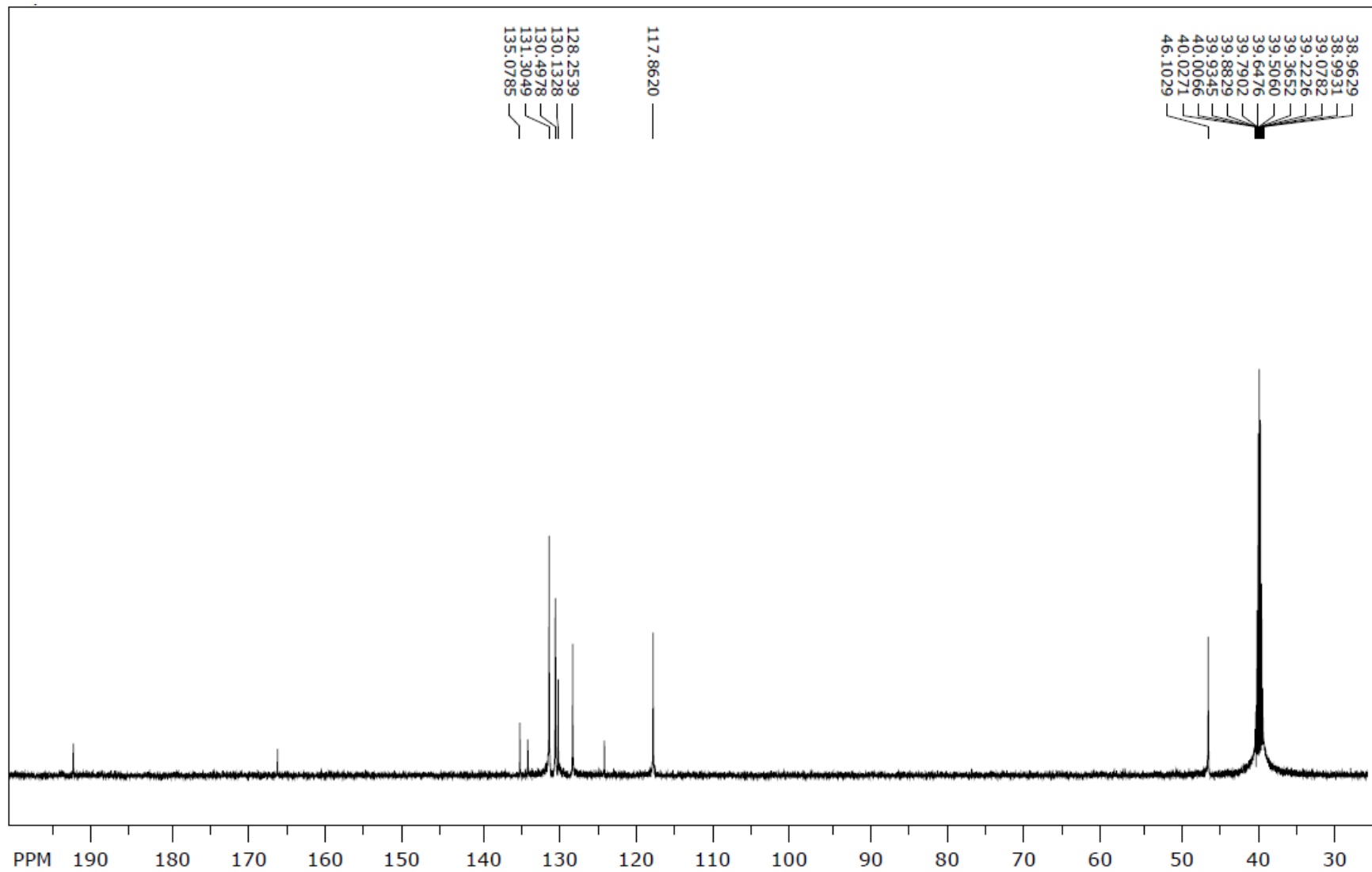
# Maseni spektar (6d)



<sup>1</sup>H NMR spektr (6d)



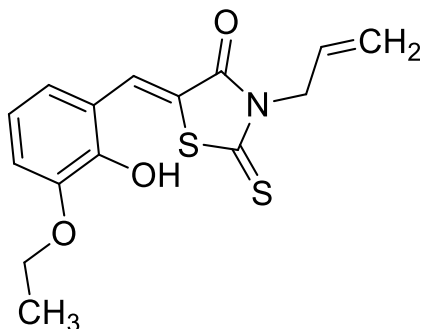
**<sup>13</sup>C NMR spektr (6d)**



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**3-alil-5-(3-etoksi-2-hidroksibenziliden)-2-tioksotiazolidin-4-on (6e)**

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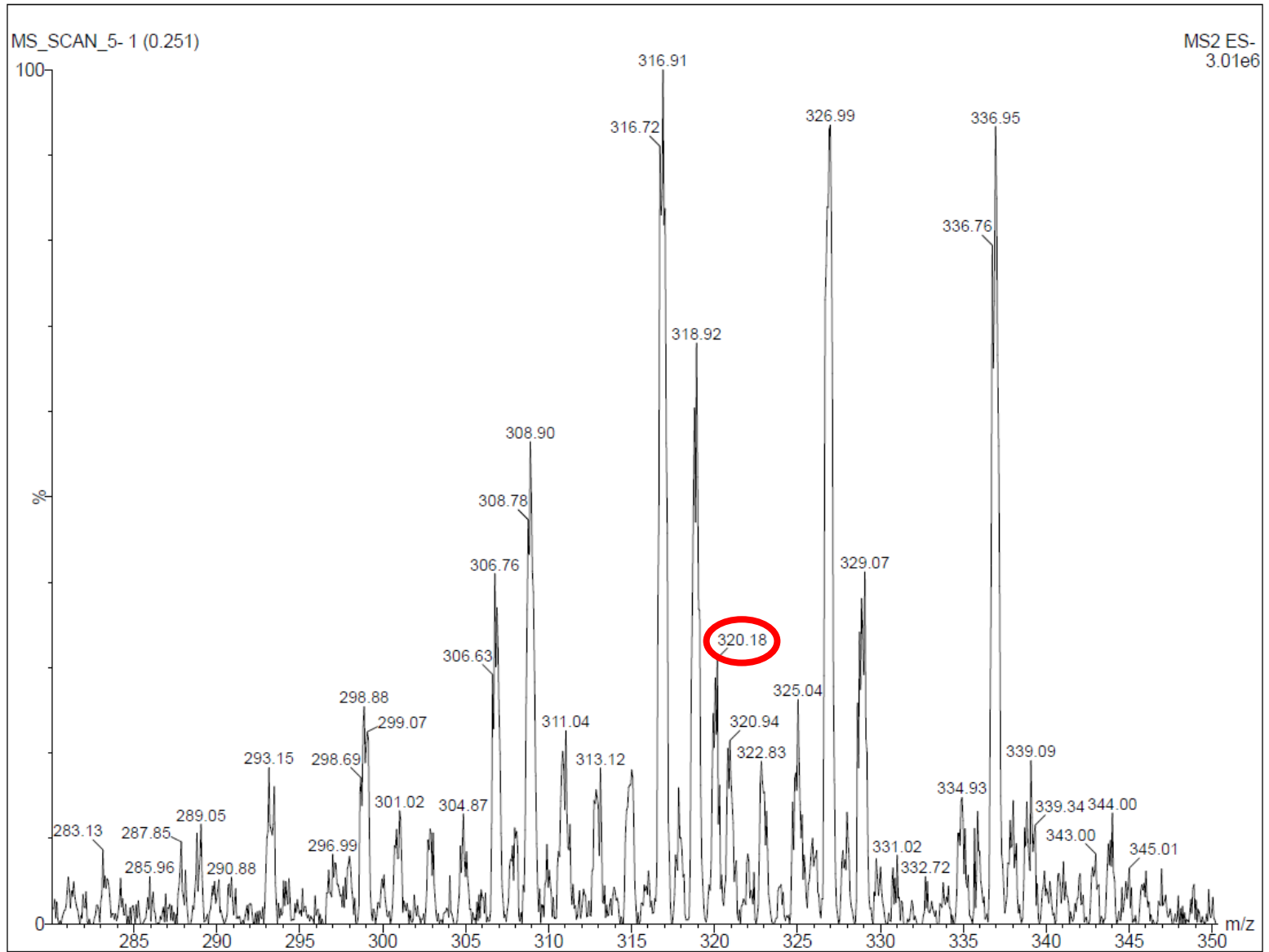


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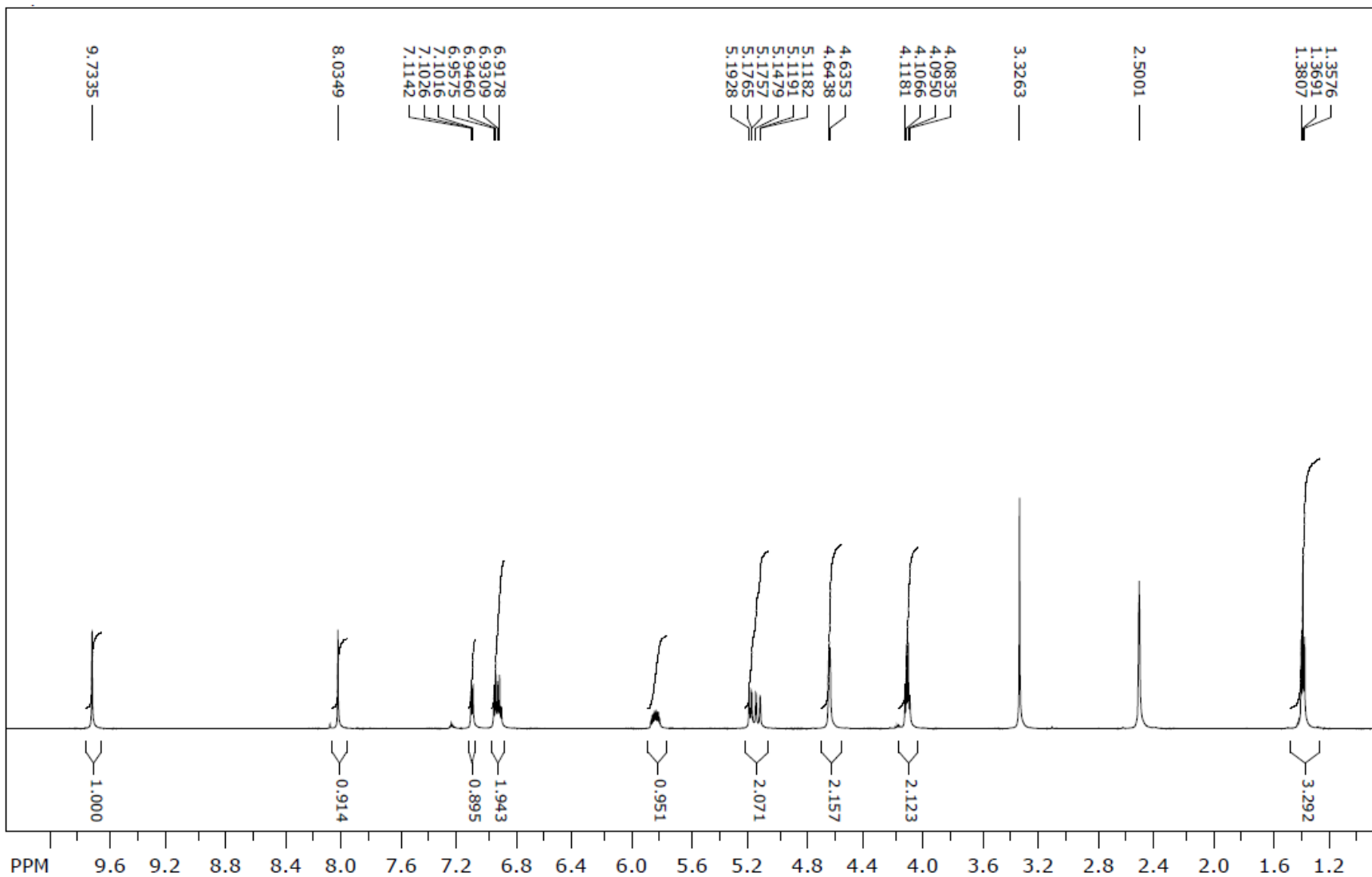
<b>Reaktanti</b>	3-etoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	321,41 g/mol
<b>Molekulska formula</b>	C <sub>15</sub> H <sub>15</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	172 – 174 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,82
<b>LC/MS/MS m/z (M-)</b>	320,18
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,73 (s, 1H, OH), 8,03 (s, 1H, CH), 7,11 (d, <i>J</i> = 7,26 Hz, 1H, arom.), 6,90 – 6,96 (m, 2H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,18 (d, <i>J</i> = 10,26 Hz, 1H, CH <sub>2</sub> ), 5,13 (d, <i>J</i> = 17,82 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,10 Hz, 2H, CH <sub>2</sub> ), 4,10 (q, <i>J</i> = 6,92 Hz, 2H, CH <sub>2</sub> CH <sub>3</sub> ), 1,37 (t, <i>J</i> = 6,92 Hz, 3H, CH <sub>2</sub> CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,48; 166,72; 147,27; 147,18; 130,27; 128,77; 120,95; 120,54; 120,21; 119,90; 117,96; 115,69; 64,35; 45,97; 14,49.

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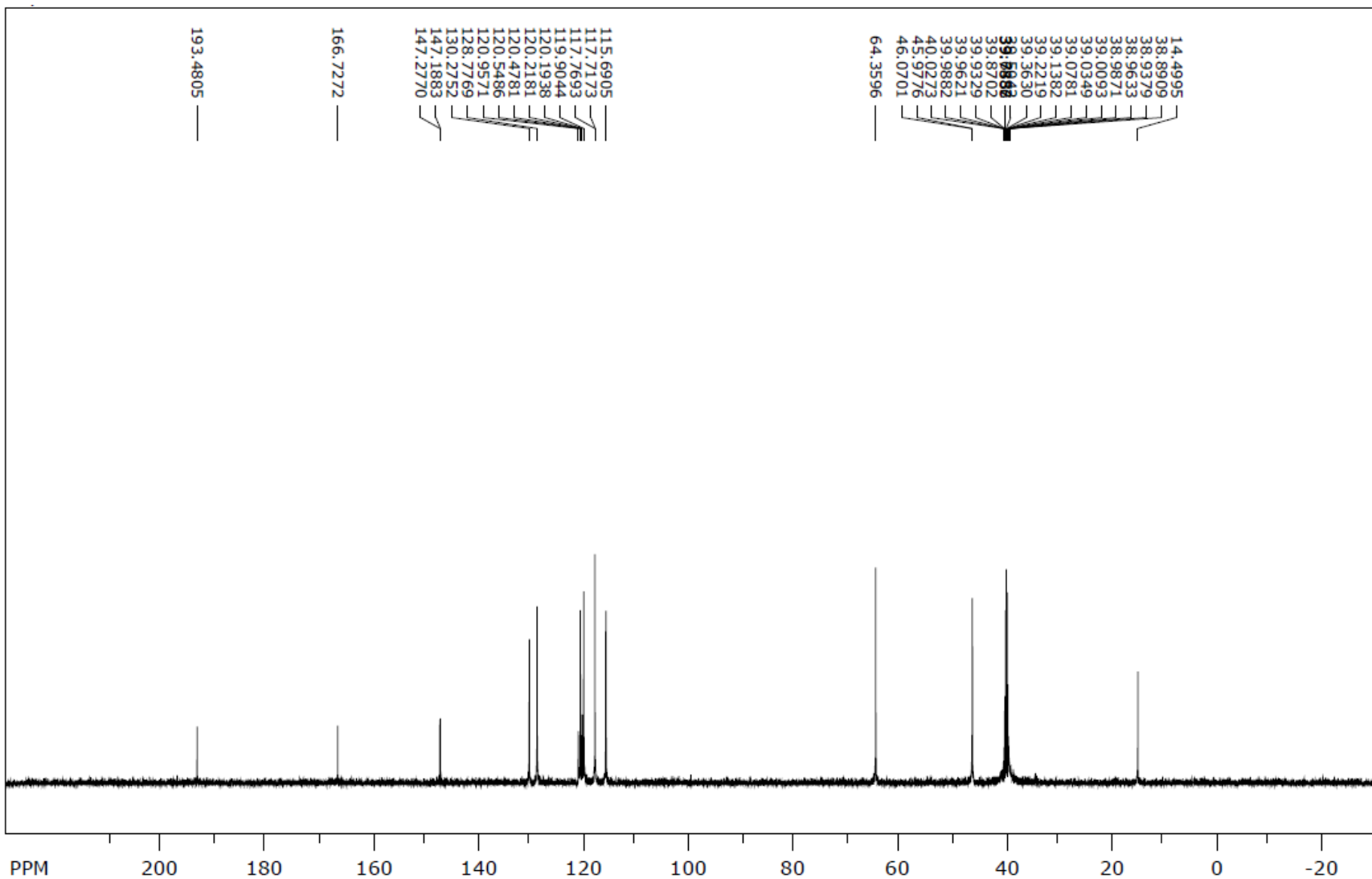
# Maseni spektr (6e)



<sup>1</sup>H NMR spektr (6e)



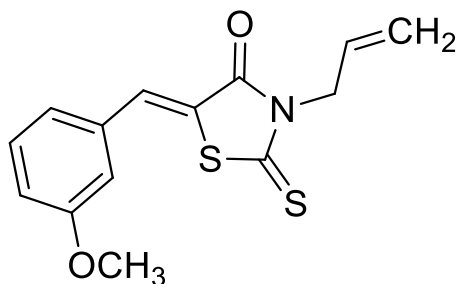
<sup>13</sup>C NMR spektr (6e)



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**3-aliil-5-(3-metoksibenziliden)-2-tioksotiazolidin-4-on (6f)**

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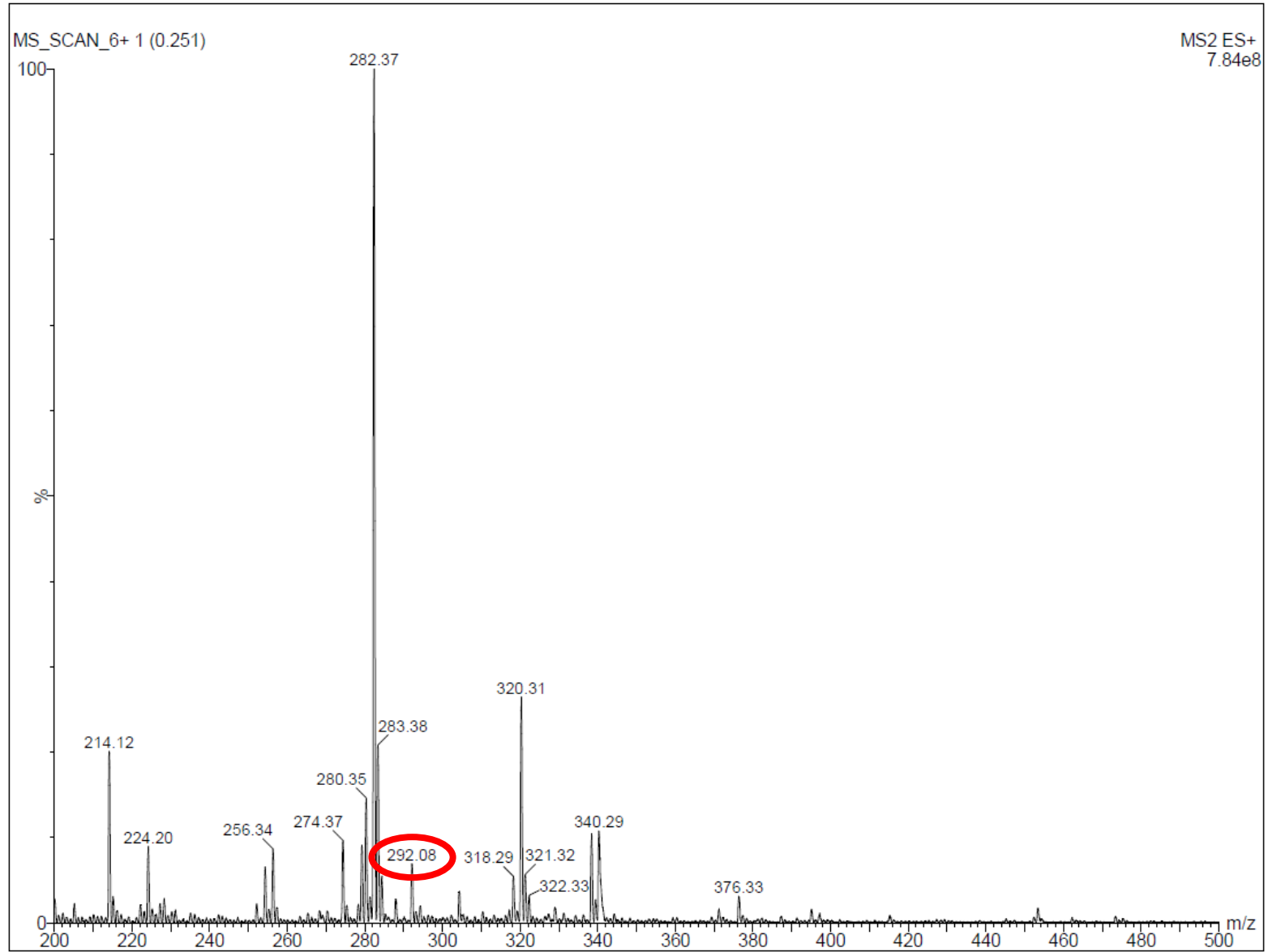


<b>Reaktanti</b>	3-metoksibenzaldehid (2 mmol) i 3-aliilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	291,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	82 – 85 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,90
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	292,08
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,81 (s, 1H, CH), 7,48 (t, <i>J</i> = 8,16 Hz, 1H, arom.), 7,21 (t, <i>J</i> = 2,28 Hz, 2H, arom.), 7,10 (dd, <i>J</i> = 8,10; 1,65 Hz, 1H, arom.), 5,82 – 5,88 (m, 1H, CH), 5,19 (d, <i>J</i> = 10,32 Hz, 1H, CH <sub>2</sub> ), 5,14 (d, <i>J</i> = 17,16 Hz, 1H, CH <sub>2</sub> ), 4,65 (d, <i>J</i> = 4,98 Hz, 2H, CH <sub>2</sub> ), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,05; 166,50; 159,71; 134,28; 133,08; 130,62; 130,19; 122,46; 117,79; 117,01; 115,76; 55,32; 46,04.

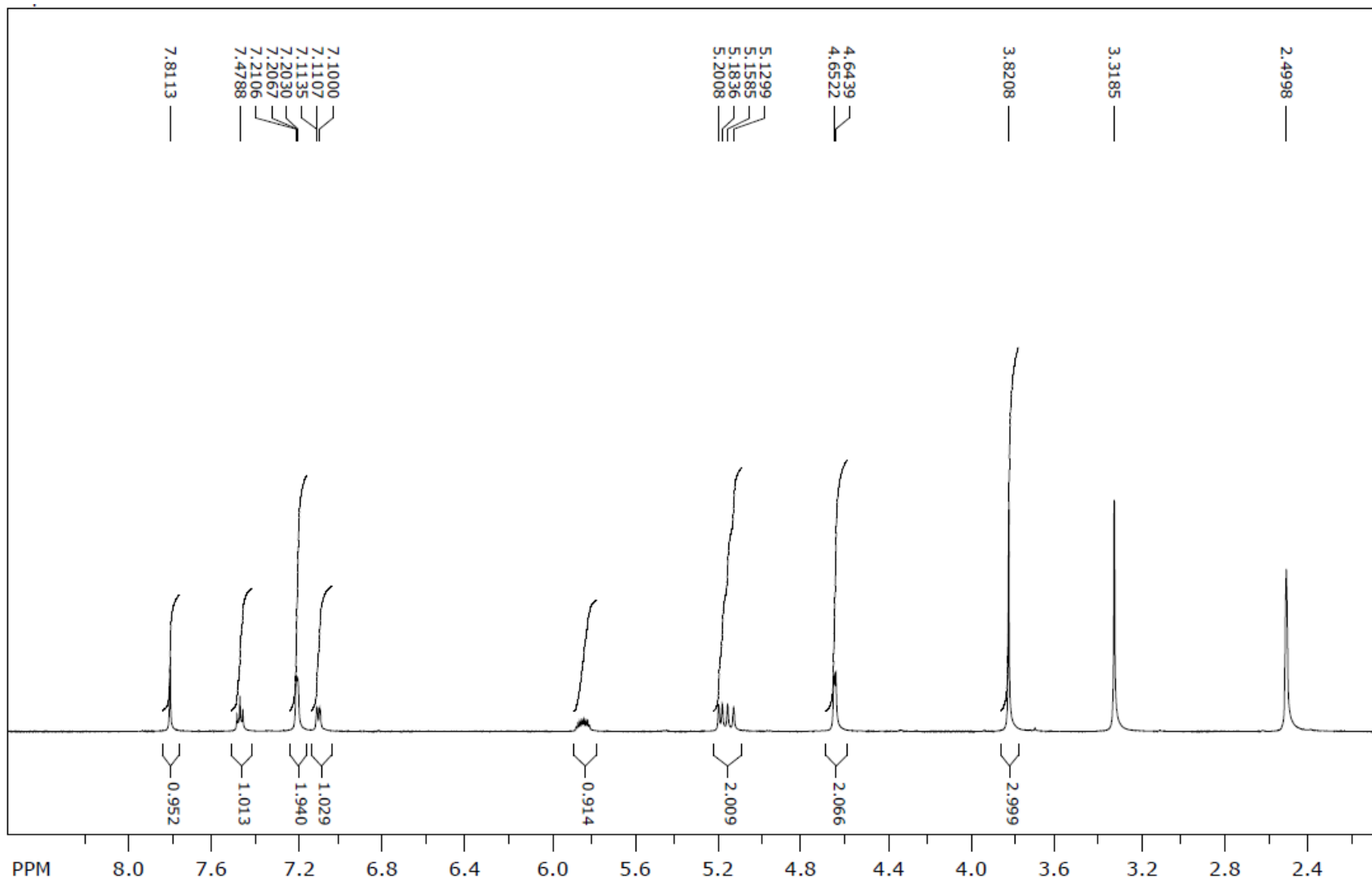
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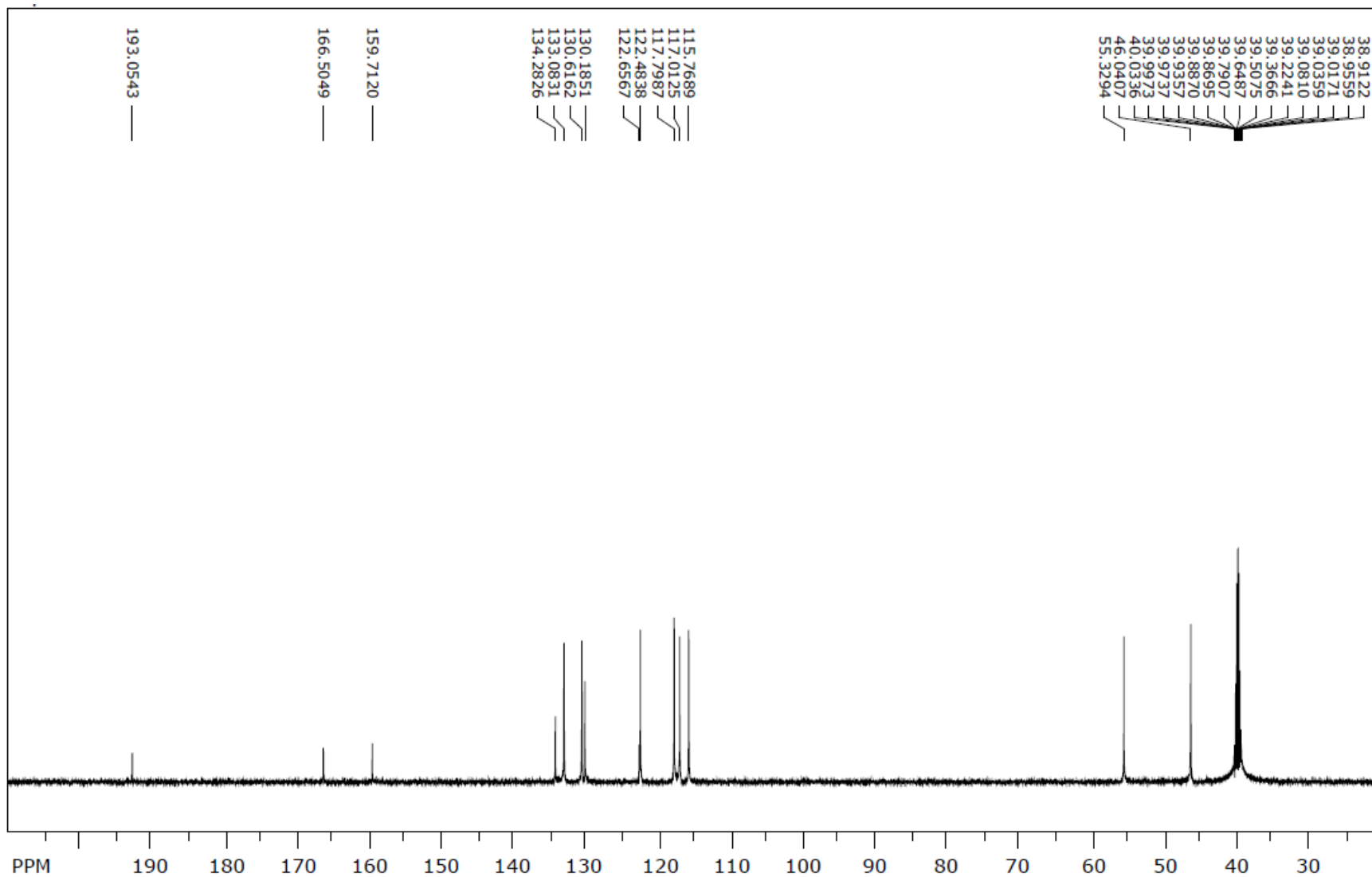
# Maseni spektr (6f)



<sup>1</sup>H NMR spektr (6f)



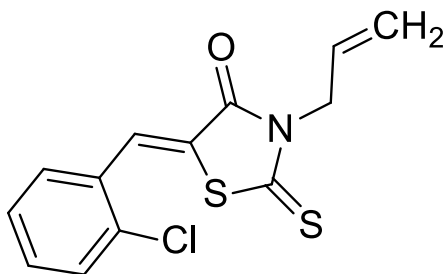
# <sup>13</sup>C NMR spektr (6f)



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**3-alil-5-(2-klorbenziliden)-2-tioksotiazolidin-4-on (6g)**

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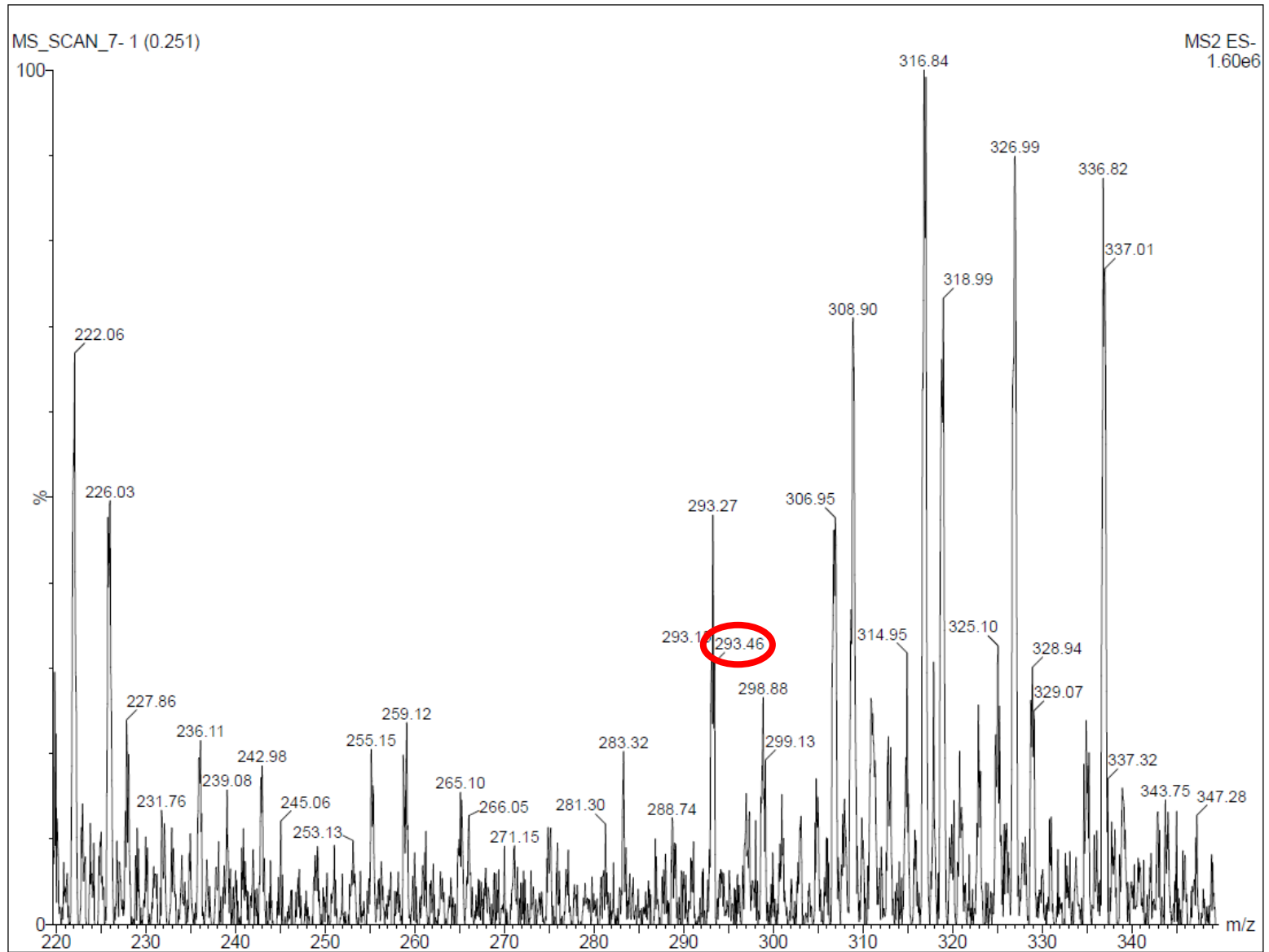


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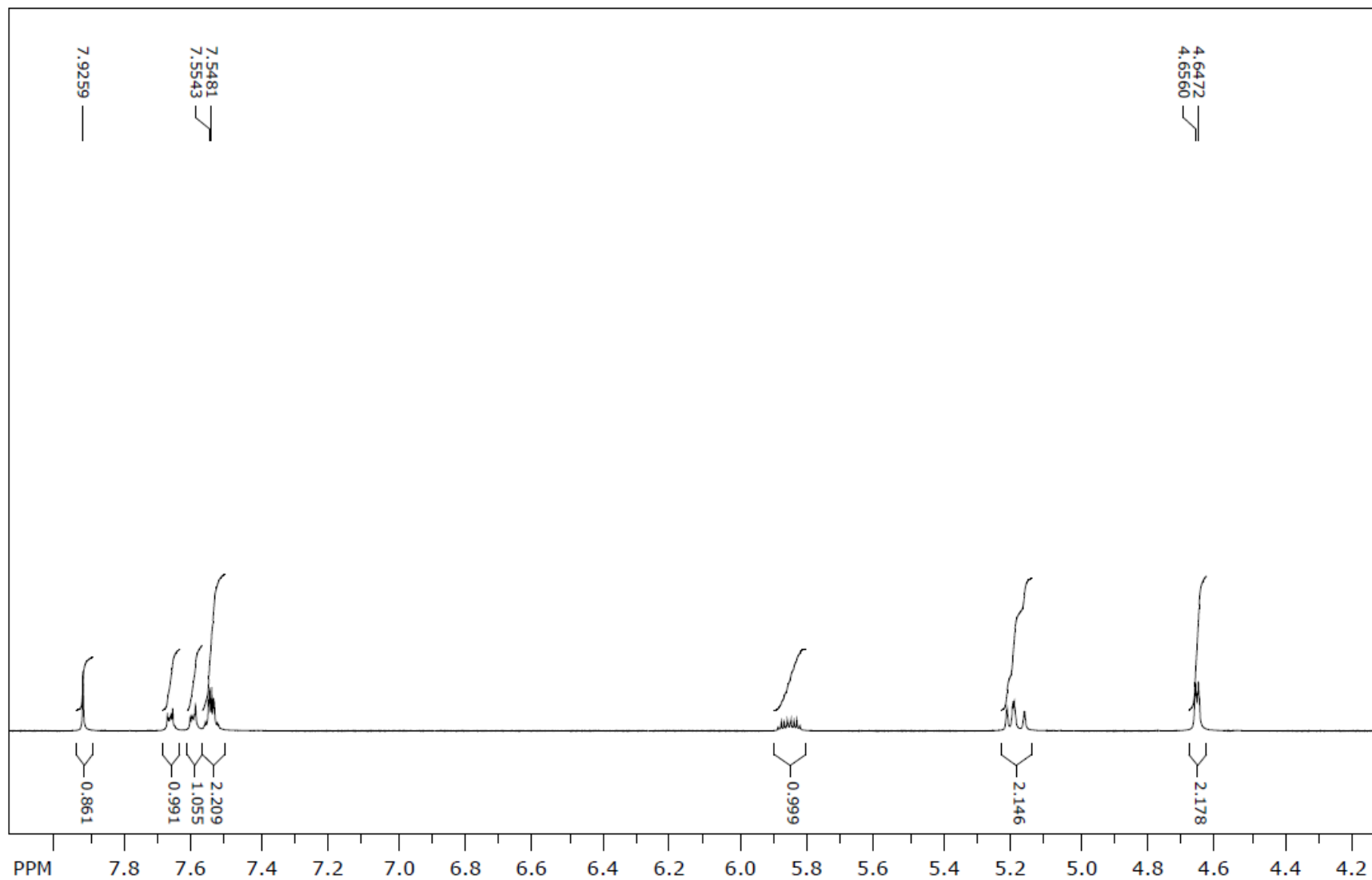
<b>Reaktanti</b>	2-klorbenzaldehyd (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	295,81 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> ClNOS <sub>2</sub>
<b>Temperatura tališta</b>	95 – 98 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,91
<b>LC/MS/MS <i>m/z</i> (M-)</b>	293,46
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,92 (s, 1H, CH), 7,56 - 7,68 (m, 1H, arom.), 7,60 – 7,61 (m, 1H, arom.), 7,53 – 7,57 (m, 2H, arom.), 5,82 – 5,88 (m, 1H, CH), 5,20 (dd, <i>J</i> = 10,38; 1,20 Hz, 1H, CH <sub>2</sub> ), 5,17 (dd, <i>J</i> = 17,40; 1,23 Hz, 1H, CH <sub>2</sub> ), 4,65 (d, <i>J</i> = 5,28 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,01; 166,31; 134,77; 132,35; 130,49; 130,02; 129,48; 128,34; 127,54; 125,98; 117,98; 50,68; 46,16.

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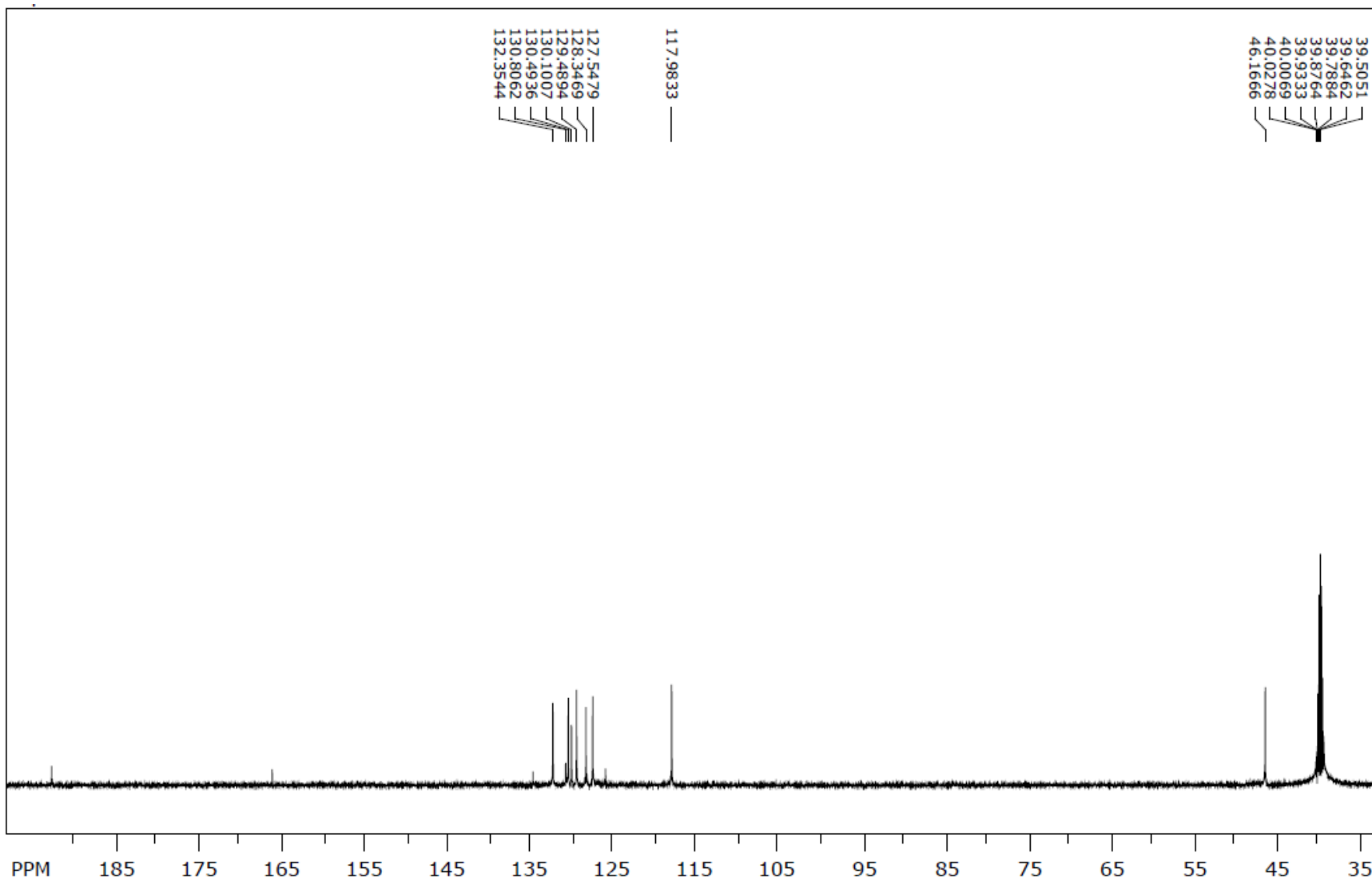
# Maseni spektar (6g)



<sup>1</sup>H NMR spektr (6g)



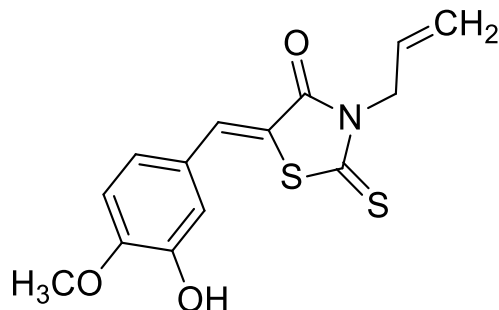
**<sup>13</sup>C NMR spektr (6g)**



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**3-alil-5-(3-hidroksi-4-metoksibenziliden)-2-tioksotiazolidin-4-on (6h)**

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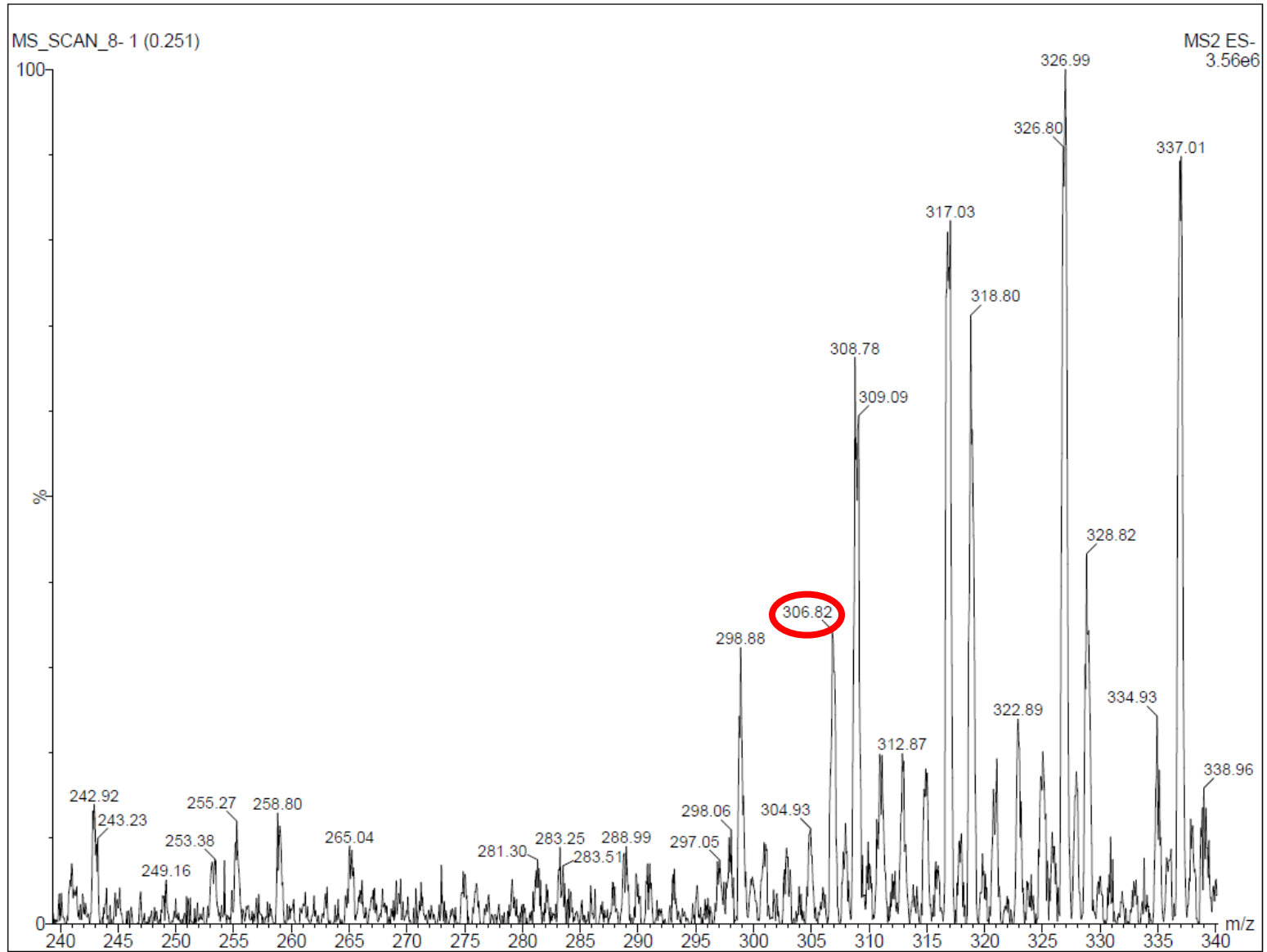
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<b>Reaktanti</b>	3-hidroksi-4-metoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	307,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	113 – 115 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,73
<b>LC/MS/MS m/z (M-)</b>	306,82
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,58 (s, 1H, OH), 7,68 (s, 1H, CH), 7,16 (dd, <i>J</i> = 8,46; 2,10 Hz, 1H, arom.), 7,10 (d, <i>J</i> = 8,46 Hz, 1H, arom.), 7,06 (d, <i>J</i> = 2,16 Hz, 1H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,38; 1,23 Hz, 1H, CH <sub>2</sub> ), 5,12 (dd, <i>J</i> = 17,22; 1,32 Hz, 1H, CH <sub>2</sub> ) 4,63 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,93; 166,58; 150,48; 147,13; 133,82; 130,27; 125,65; 124,77; 118,61; 117,72; 116,12; 112,54; 55,71; 45,93.

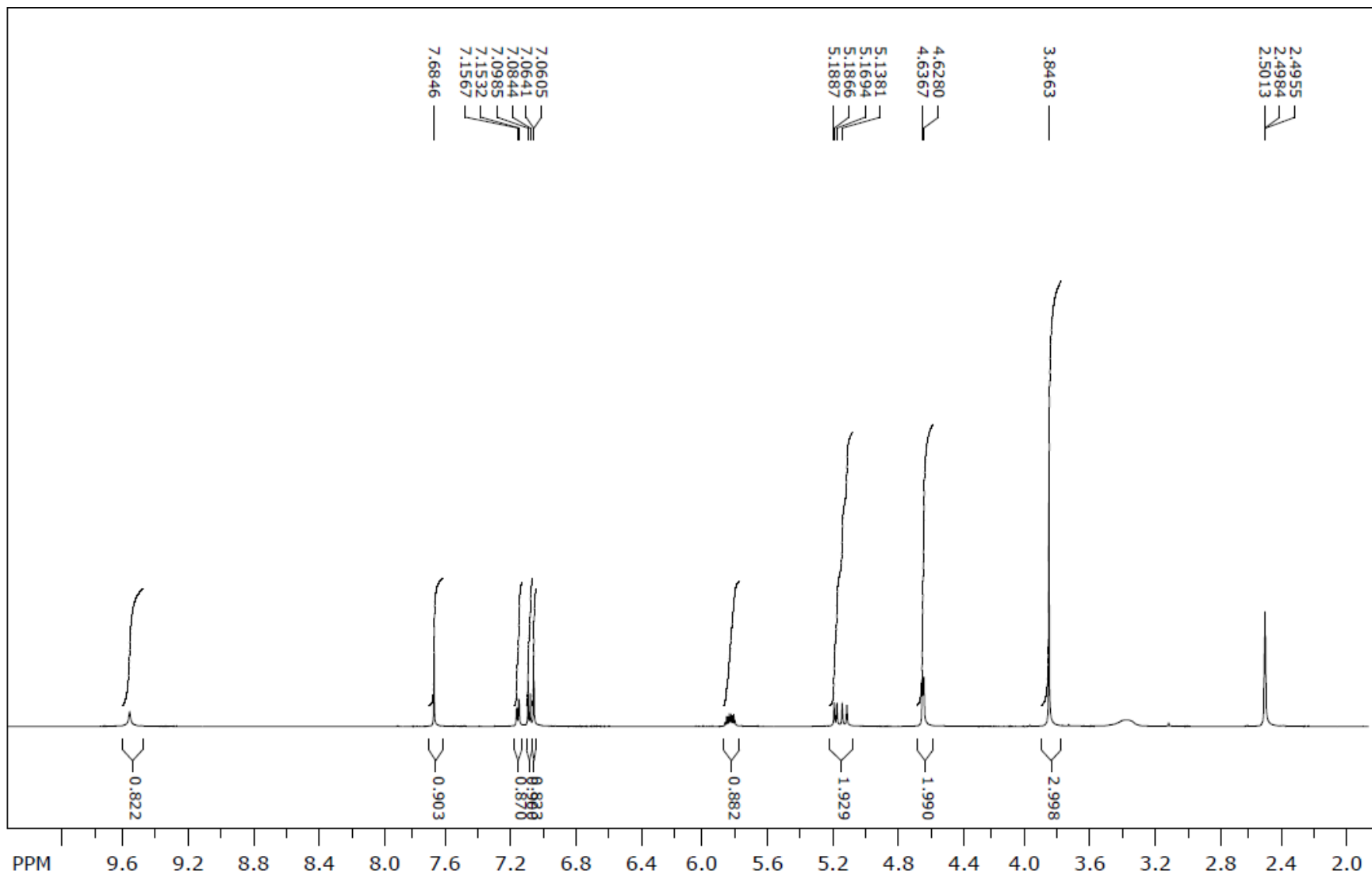
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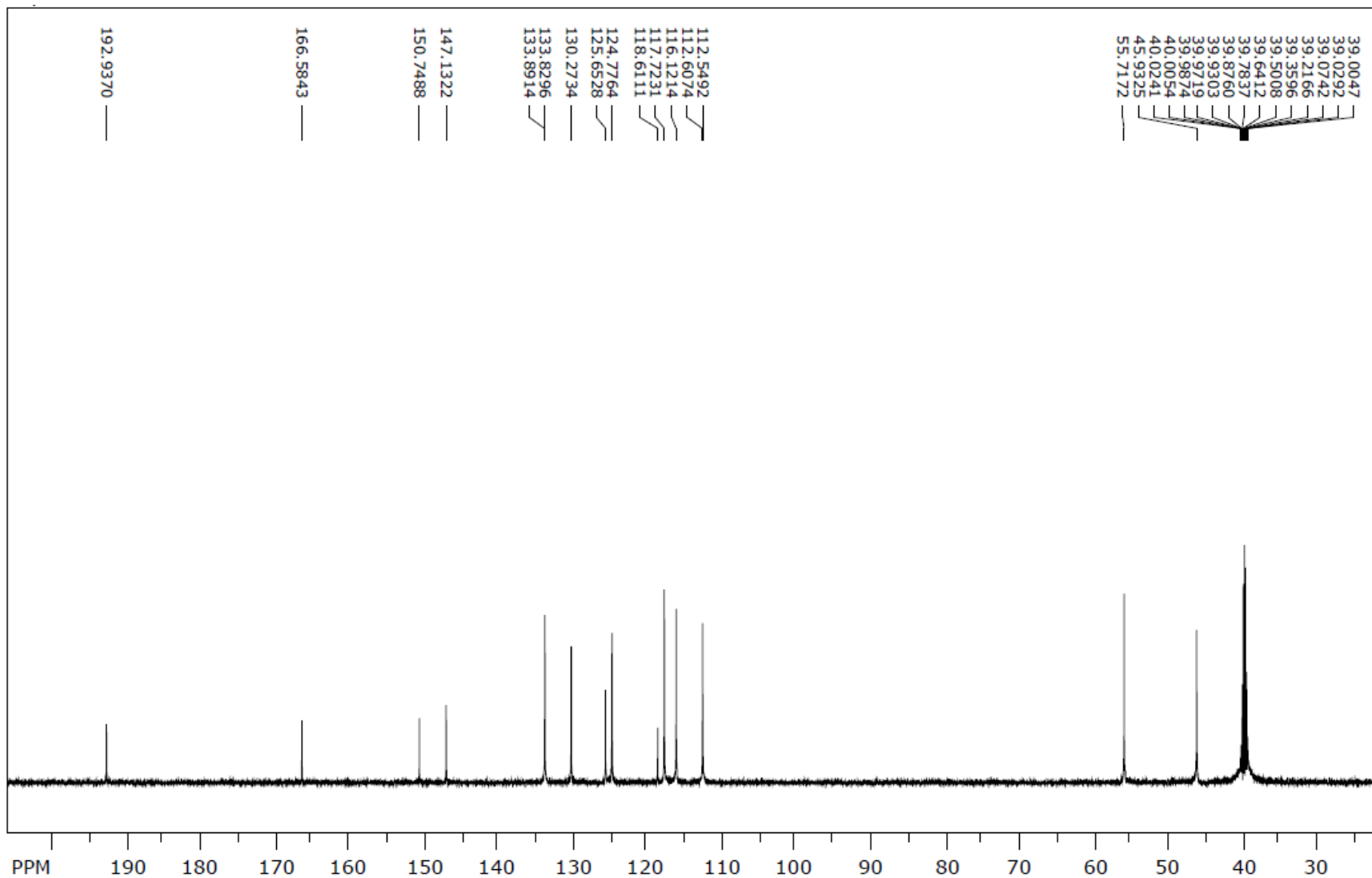
# Maseni spektar (6h)



<sup>1</sup>H NMR spektar (6h)



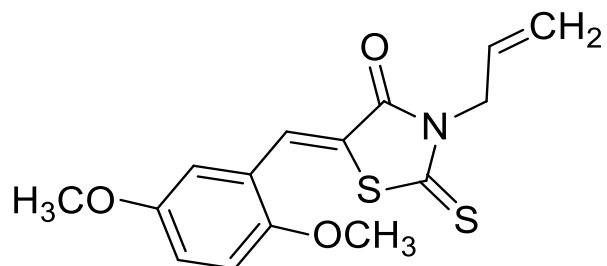
# <sup>13</sup>C NMR spektr (6h)



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**3-alil-5-(2,5-dimetoksibenziliden)-2-tioksotiazolidin-4-on (6i)**

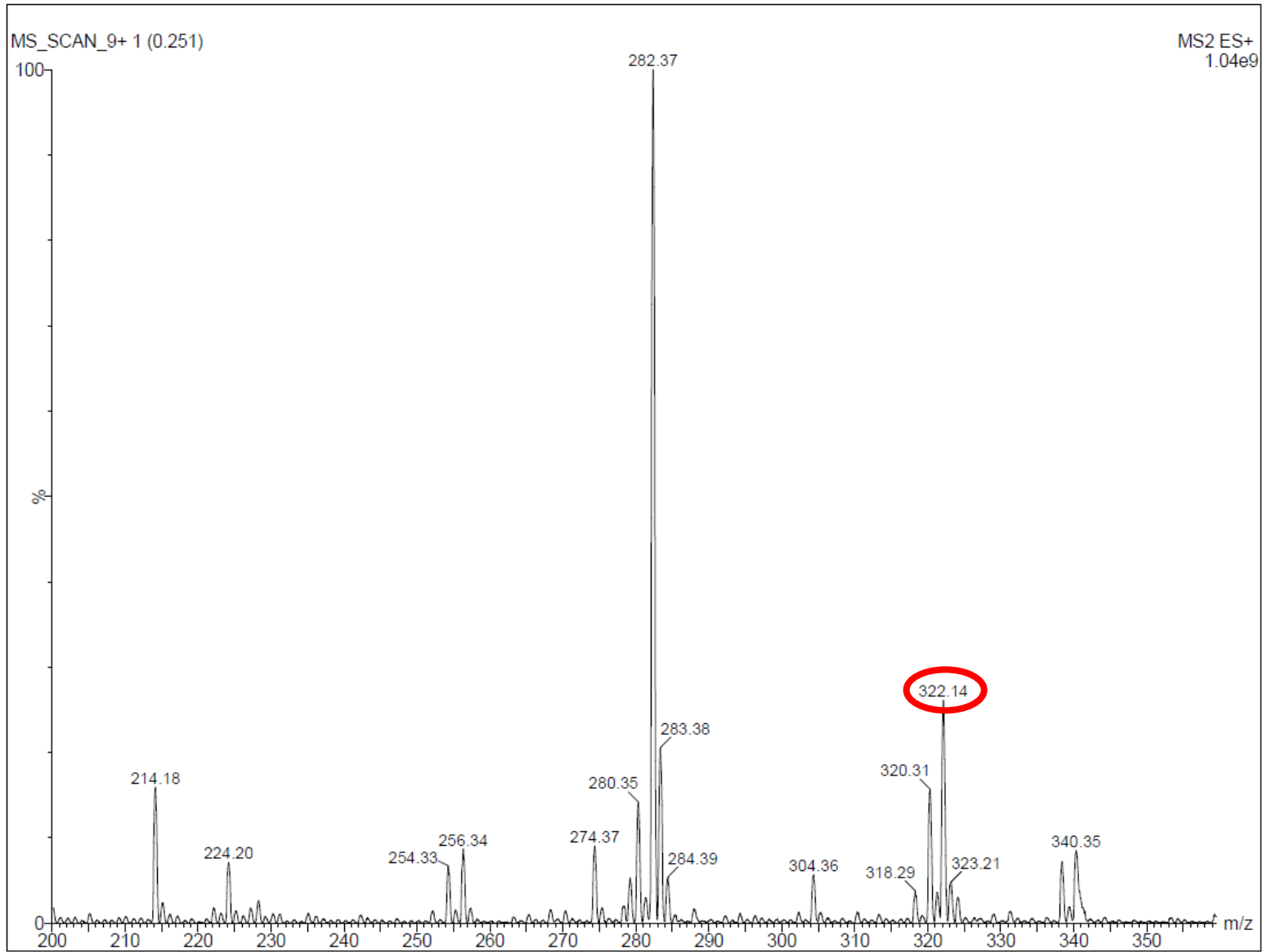
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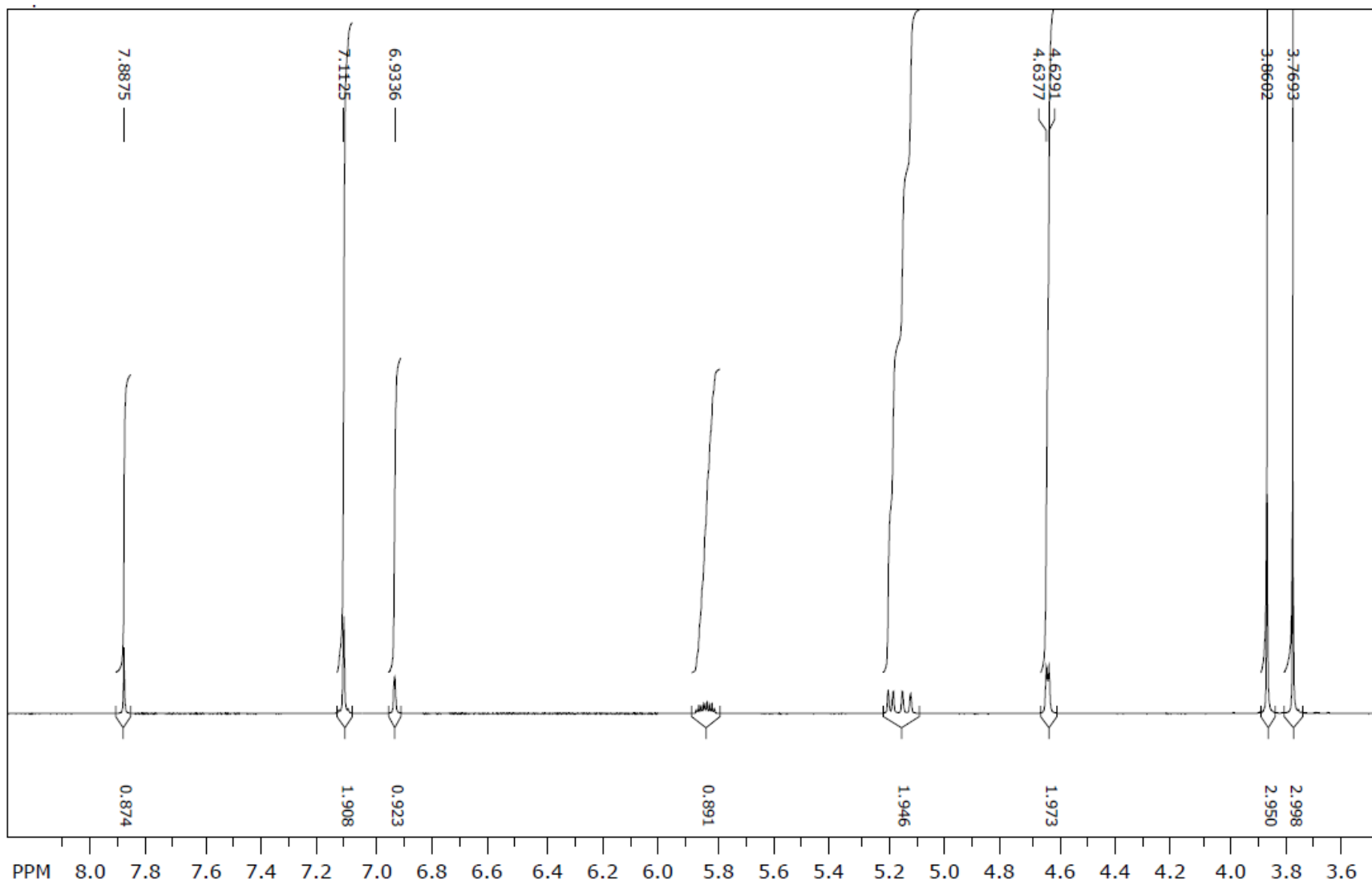
<b>Reaktanti</b>	2,5-dimetoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	321,41 g/mol
<b>Molekulska formula</b>	C <sub>15</sub> H <sub>15</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	93 – 96 °C
<b>Boja kristala</b>	Crvena
<b>R<sub>f</sub></b>	0,89
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	322,14
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,88 (s, 1H, CH), 7,11 (s, 2H, arom.), 6,93 (s, 1H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,19 (d, <i>J</i> = 10,38 Hz, 1H, CH <sub>2</sub> ), 5,13 (dd, <i>J</i> = 17,28; 0,66 Hz, 1H, CH <sub>2</sub> ), 4,63 (d, <i>J</i> = 5,16 Hz, 2H, CH <sub>2</sub> ), 3,86 (s, 3H, OCH <sub>3</sub> ), 3,77 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,98; 166,59; 153,20; 152,53; 130,21; 118,92; 117,76; 114,25; 113,24; 56,06; 55,58; 46,00.

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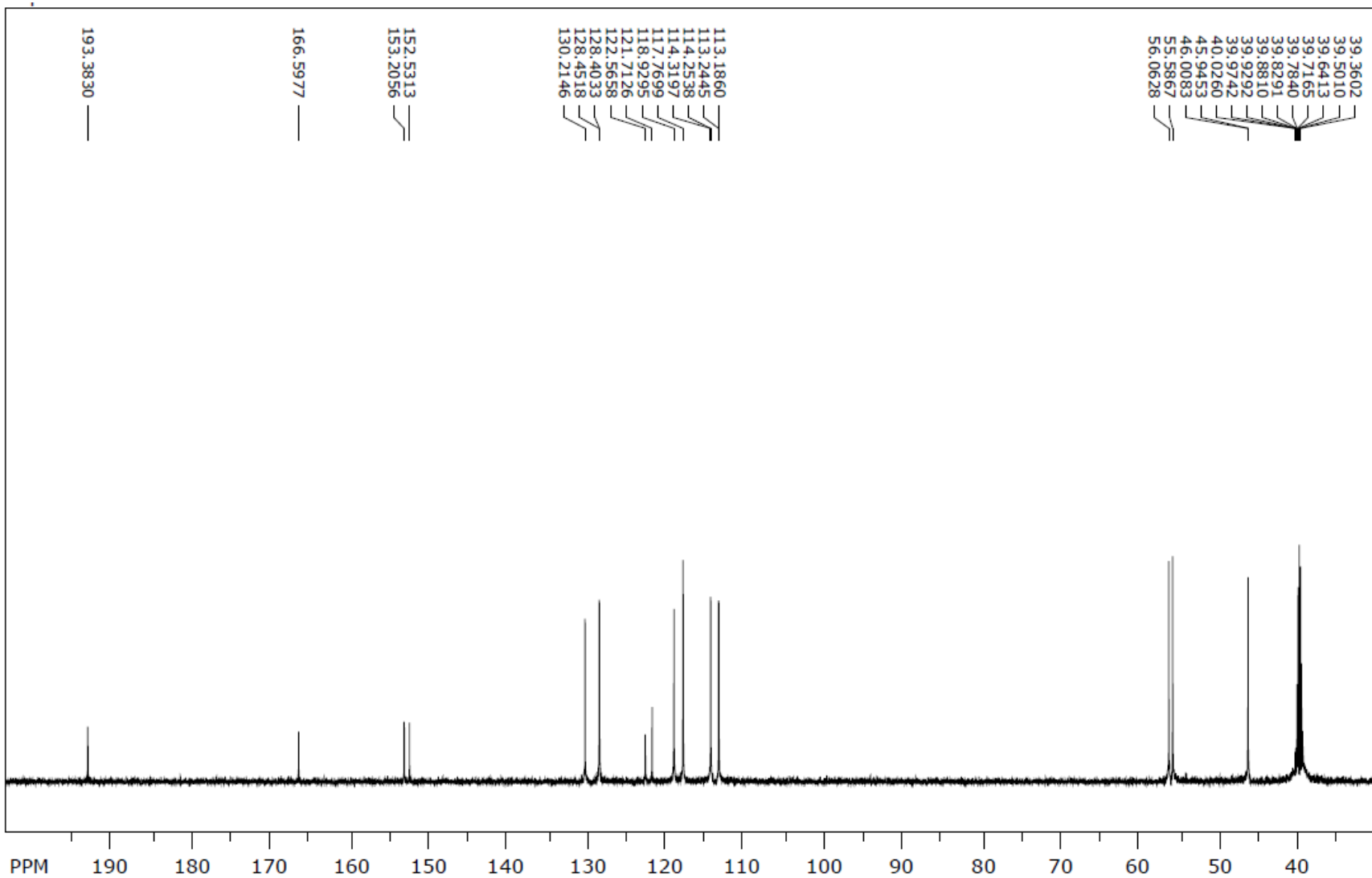
# Maseni spektar (6i)



<sup>1</sup>H NMR spektr (6i)



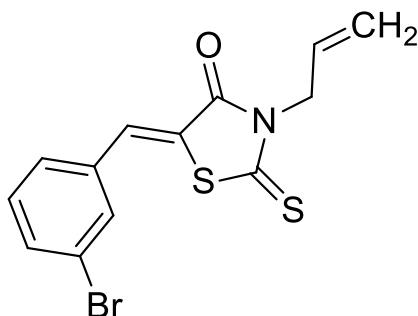
**<sup>13</sup>C NMR spektr (6i)**



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**3-alil-5-(3-brombenziliden)-2-tioksotiazolidin-4-on (6j)**

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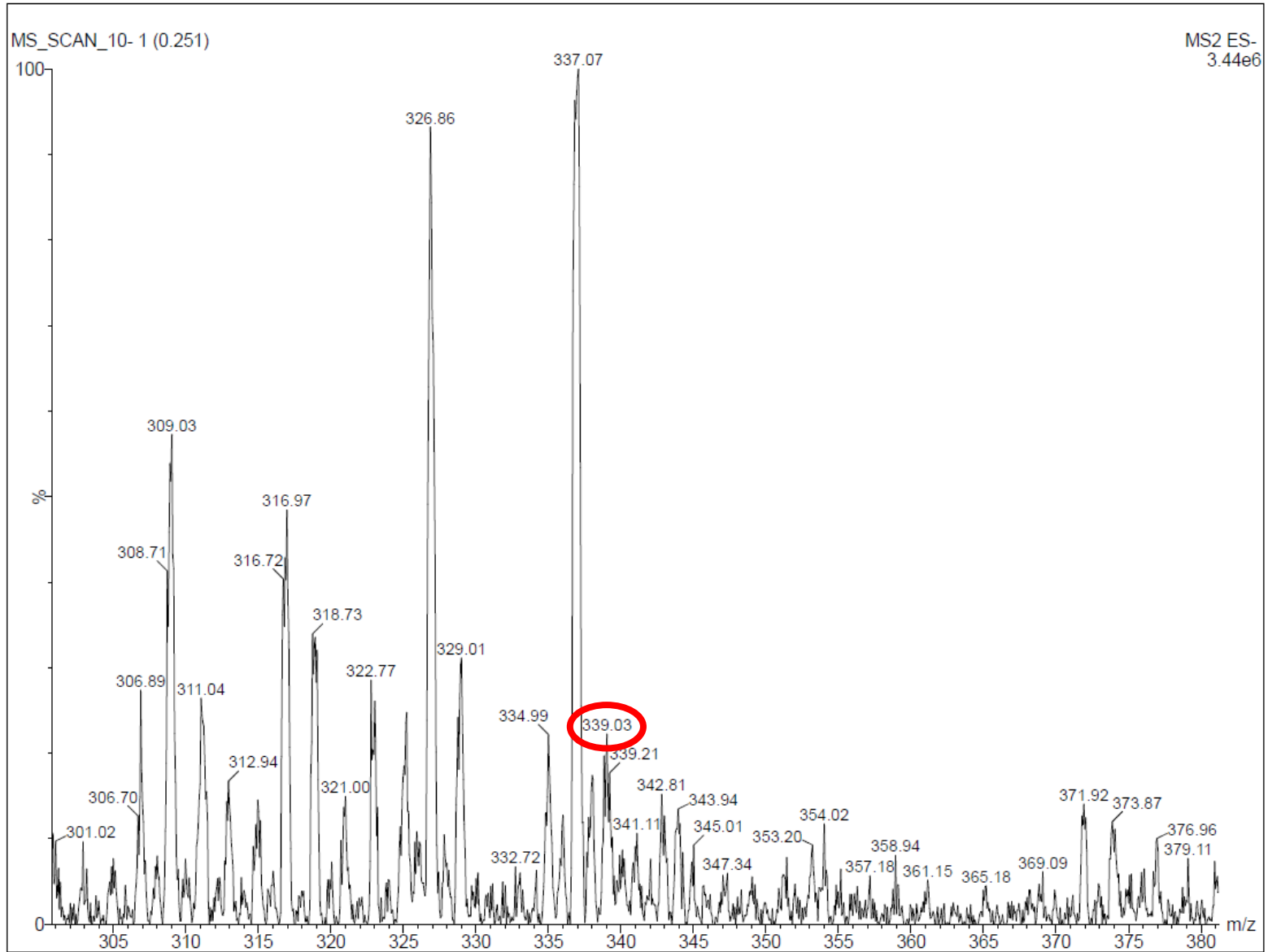
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<b>Reaktanti</b>	3-brombenzalhid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	340,26 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> BrNOS <sub>2</sub>
<b>Temperatura tališta</b>	107 – 110 °C
<b>Boja kristala</b>	Tamnosmeđa
<b>R<sub>f</sub></b>	0,90
<b>LC/MS/MS m/z (M-)</b>	339,03
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,89 (t, <i>J</i> = 1,77 Hz, 1H, arom.), 7,82 (s, 1H, CH), 7,73 (dd, <i>J</i> = 1,86; 0,87 Hz, 1H, arom.), 7,71 (dd, <i>J</i> = 1,86; 0,81 Hz, 1H, arom.) 7,62 (dd, <i>J</i> = 7,02; 0,78 Hz, 1H, arom.), 7,52 (t, <i>J</i> = 7,89 Hz, 1H, arom.), 5,81 – 5,88 (m, 1H, CH), 5,14 – 5,22 (m, 2H, CH <sub>2</sub> ), 4,64 – 4,66 (m, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,79; 166,40; 135,32; 133,37; 131,51; 130,13; 129,80; 128,58; 124,09; 122,56; 118,21; 117,86; 46,10.

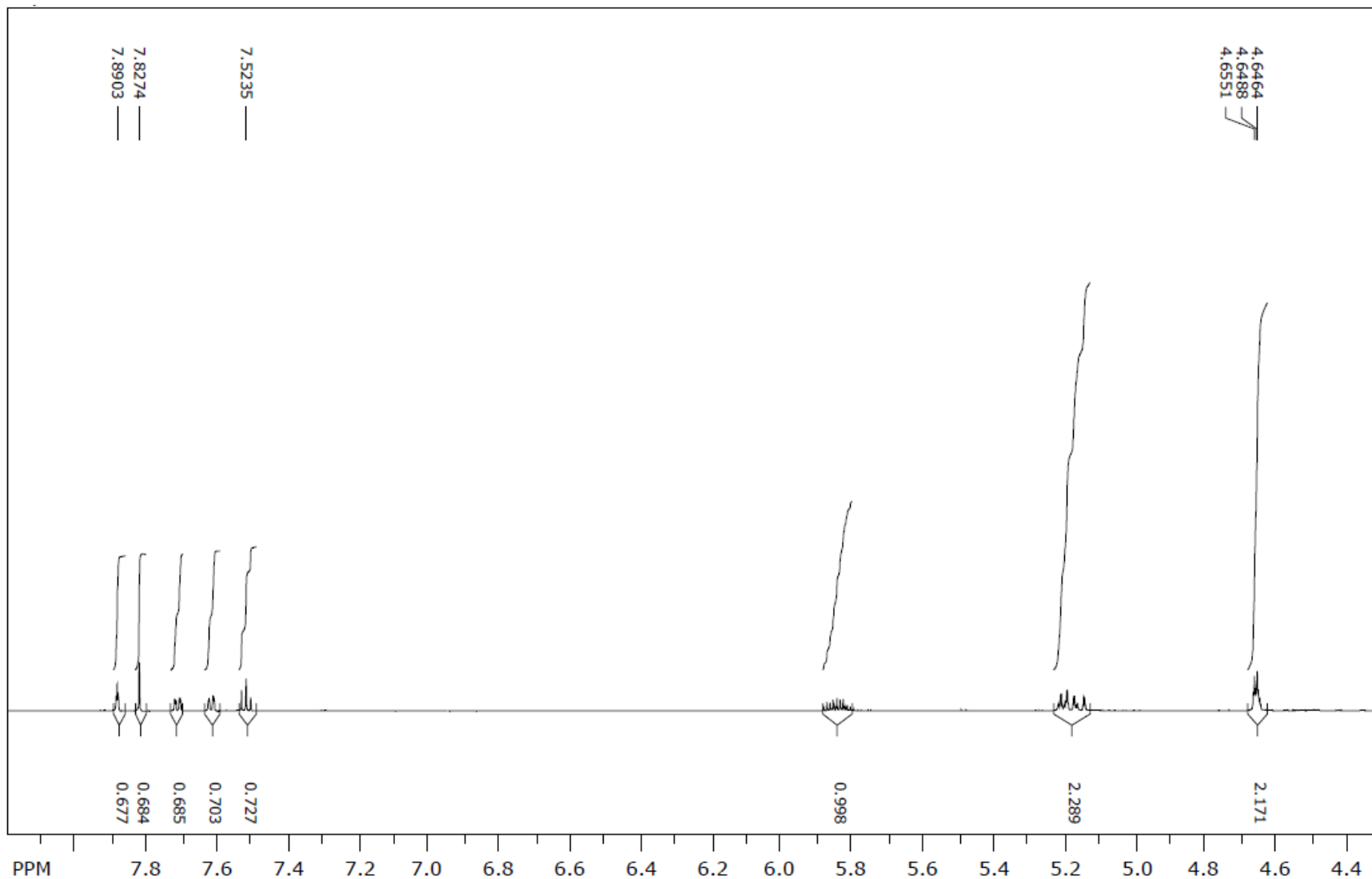
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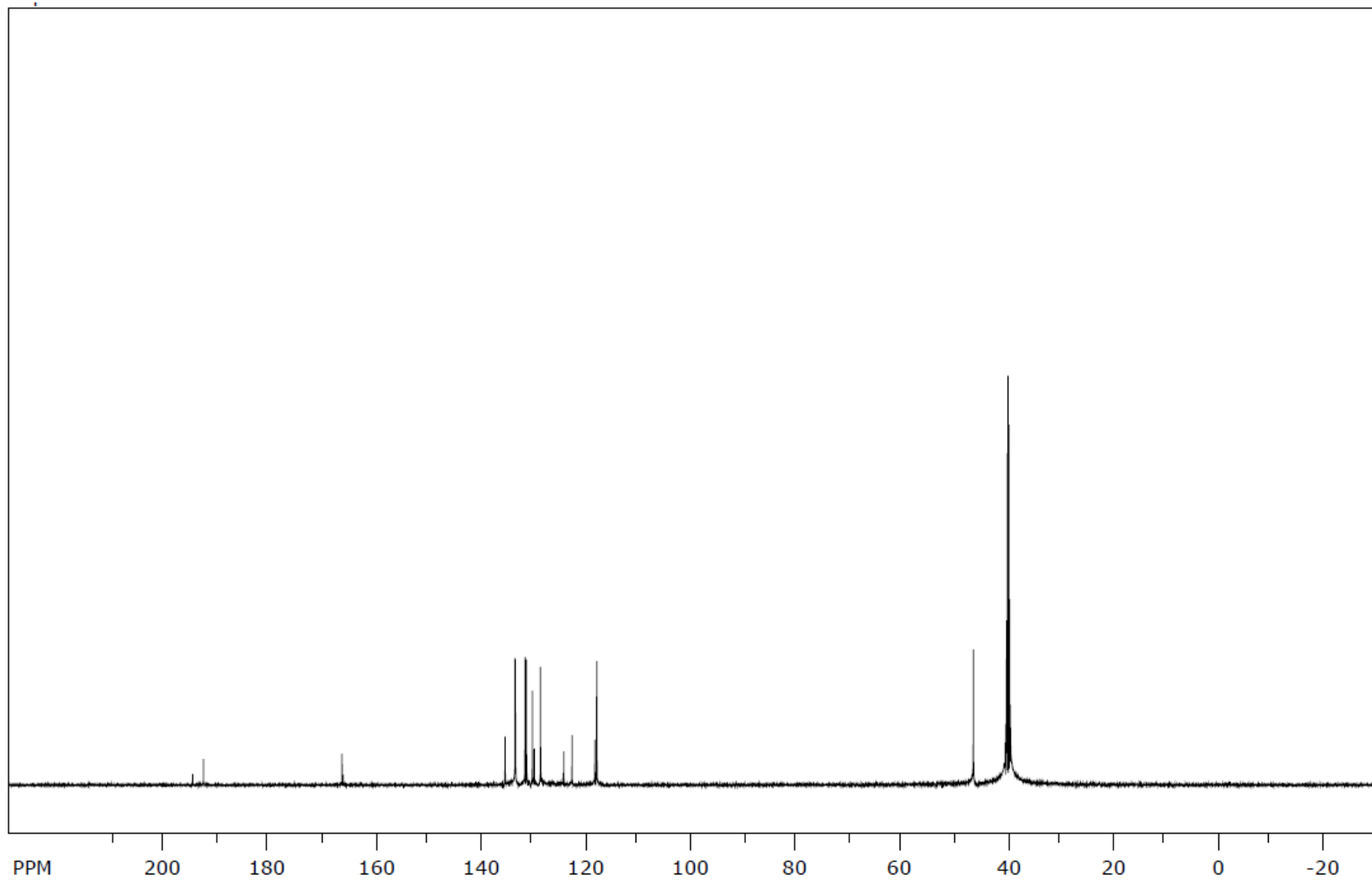
# Maseni spektr (6j)



**<sup>1</sup>H NMR spektr (6j)**



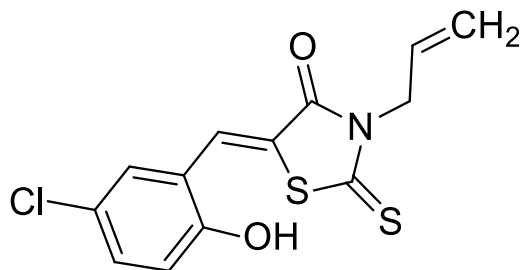
**<sup>13</sup>C NMR spektr (6j)**



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**3-aliil-5-(5-Klor-2-hidroksibenziliden)-2-tioksotiazolidin-4-on (6k)**

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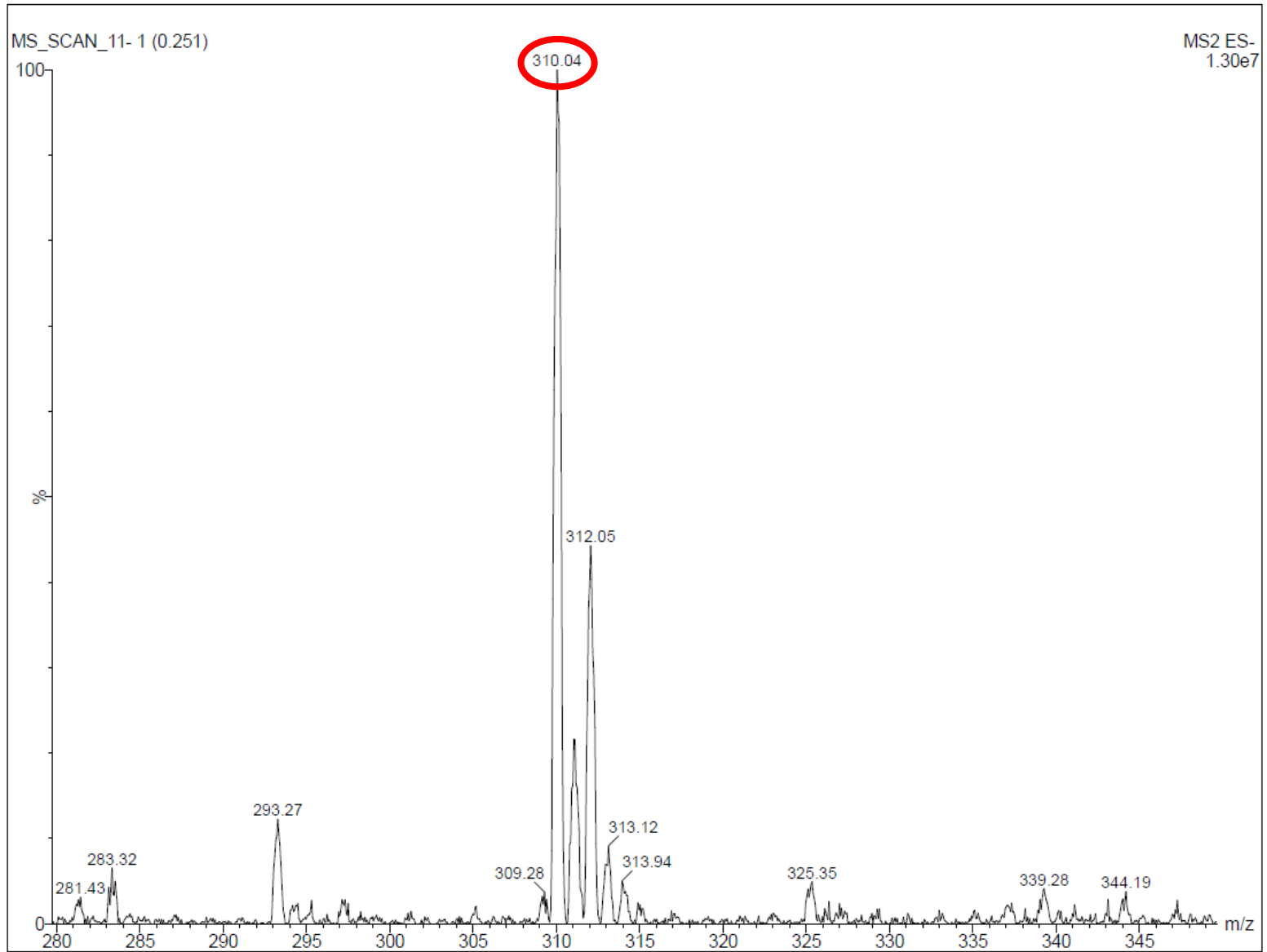


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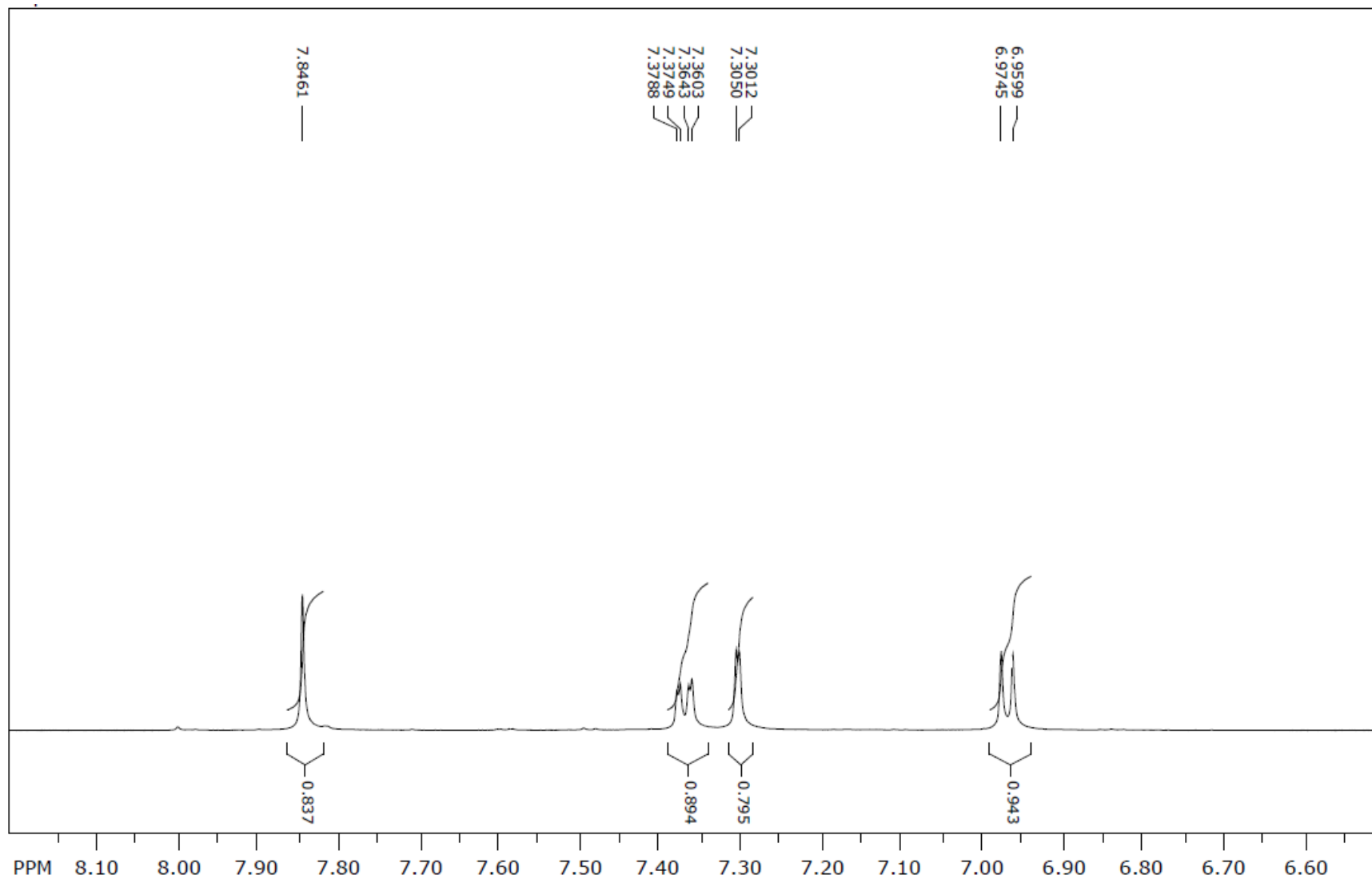
<b>Reaktanti</b>	5-klorsalicilaldehid (2 mmol) i 3-aliilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	311,81 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> ClNO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	209 – 210 °C
<b>Boja kristala</b>	Tamnožuta
<b>R<sub>f</sub></b>	0,74
<b>LC/MS/MS m/z (M-)</b>	310,04
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 11,06 (s, 1H, OH), 7,84 (s, 1H, CH), 7,37 (dd, <i>J</i> = 8,70; 2,37 Hz, 1H, arom.), 7,30 (d, <i>J</i> = 2,28 Hz, 1H, arom.), 6,97 (d, <i>J</i> = 8,76 Hz, 1H, arom.), 5,79 – 5,85 (m, 1H, CH), 5,17 (d, <i>J</i> = 10,38 Hz, 1H, CH <sub>2</sub> ), 5,12 (d, <i>J</i> = 17,22 Hz, 1H, CH <sub>2</sub> ), 4,62 (d, <i>J</i> = 5,10 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,16; 166,58; 156,09; 132,36; 130,19; 128,71; 127,54; 123,31; 122,54; 121,49; 117,96; 117,82; 46,02.

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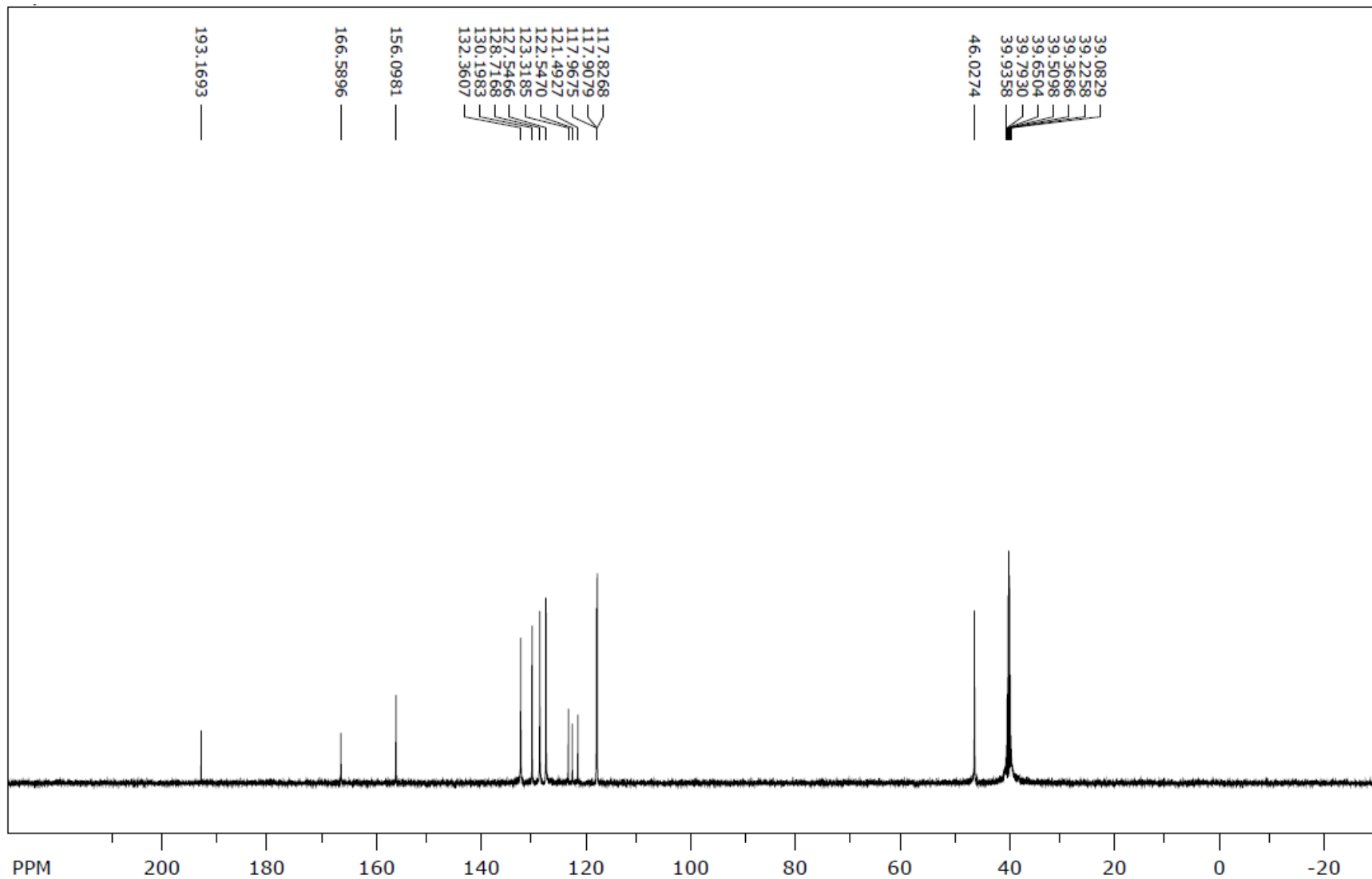
# Maseni spektar (6k)



<sup>1</sup>H NMR spektr (6k)



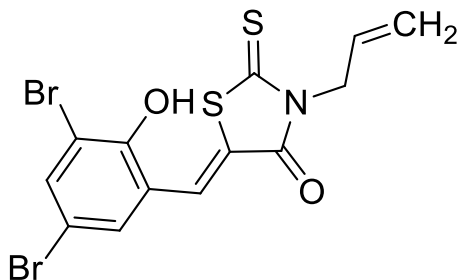
**<sup>13</sup>C NMR spektr (6k)**



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**3-aliil-5-(3,5-dibrom-2-hidroksibenziliden)-2-tioksotiazolidin-4-on (6l)**

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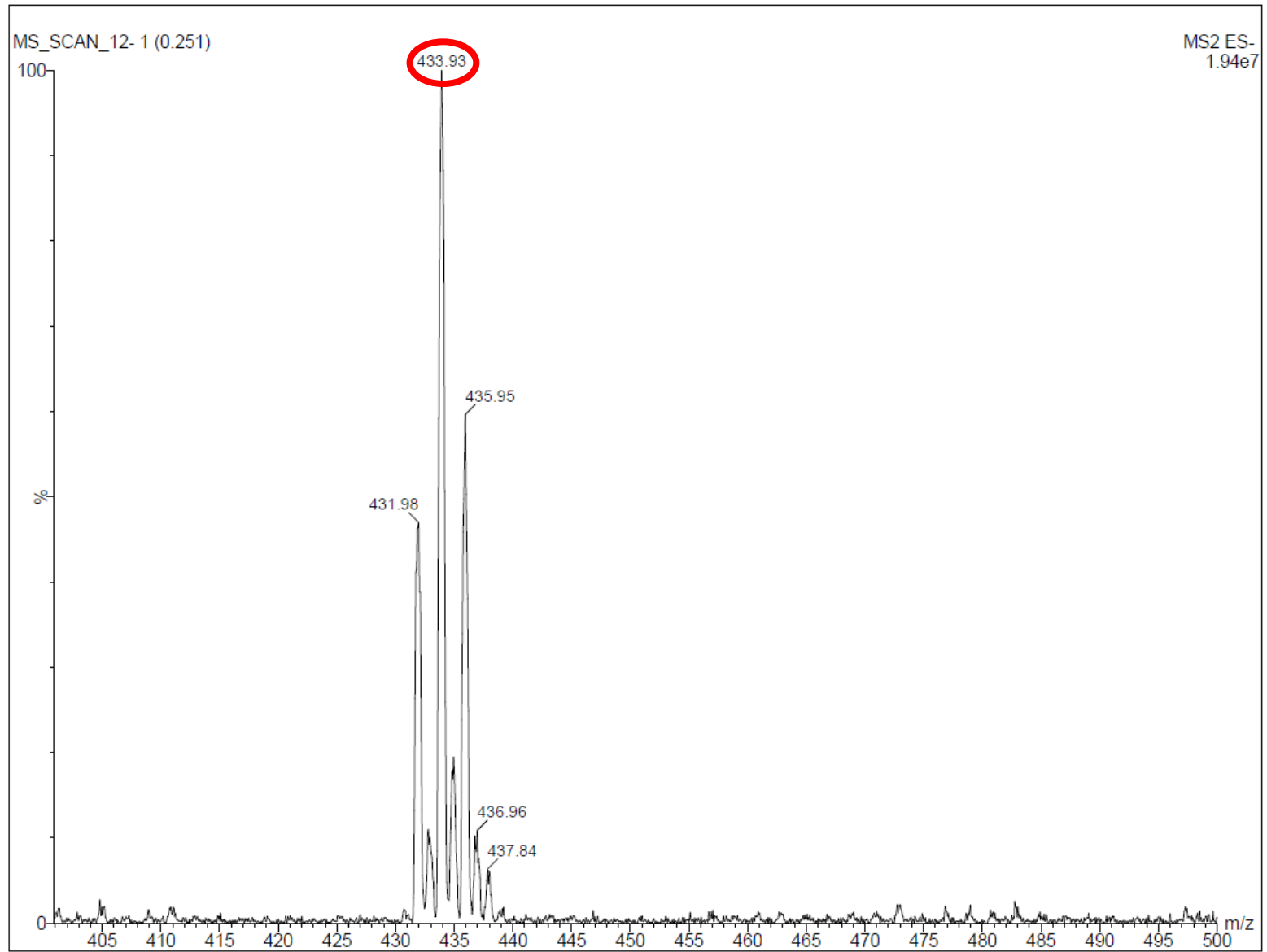
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<b>Reaktanti</b>	3,5-dibromsalicilaldehid (2 mmol) i 3-aliilrodanin (2 mmol)
<b>Metoda pročiščavanja</b>	Nije pročiščavan
<b>Molekulska masa</b>	435,15 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>9</sub> Br <sub>2</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	215 – 218 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,92
<b>LC/MS/MS <i>m/z</i> (M-)</b>	433,93
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,75 (s, 1H, OH), 7,91 (d, <i>J</i> = 4,25 Hz, 1H, arom.), 7,87 (s, 1H, CH), 7,47 (d, <i>J</i> = 2,28 Hz, 1H, arom.), 5,78 – 5,91 (m, 1H, CH), 5,17 (dtd, <i>J</i> = 1,23; 10,47; 8,40 Hz, 2H, CH <sub>2</sub> ), 4,65 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(75 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,48; 166,80; 153,22; 137,35; 131,25; 130,61; 127,69; 125,50; 118,39; 114,36; 112,28; 46,68.

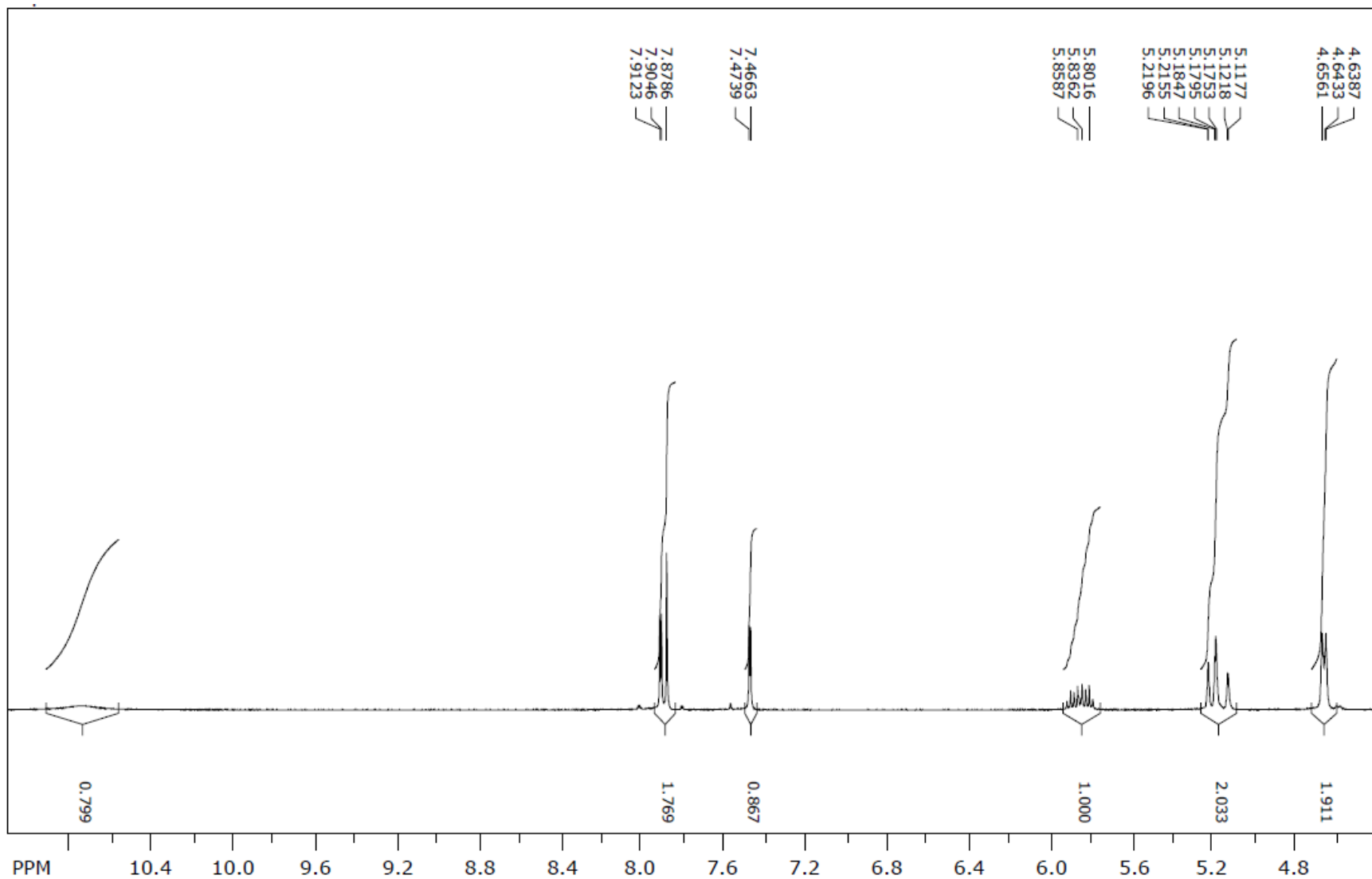
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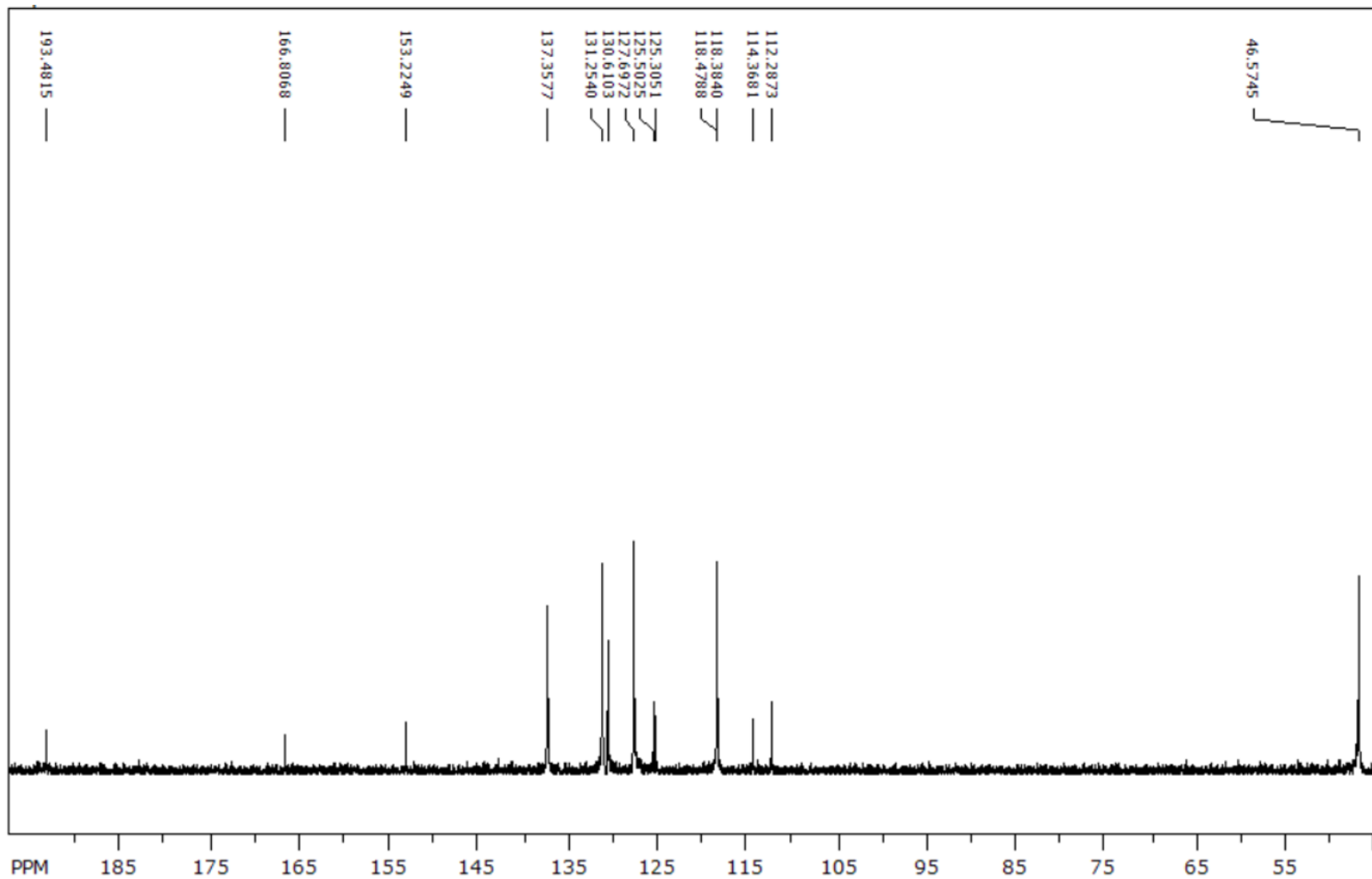
## Maseni spektar (6I)



**<sup>1</sup>H NMR spektr (6I)**



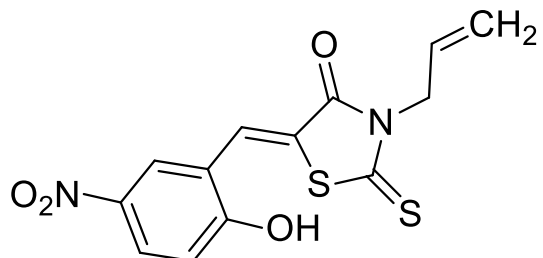
**<sup>13</sup>C NMR spektr (6l)**



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**3-alil-5-(2-hidroksi-5-nitrobenziliden)-2-tioksotiazolidin-4-on (6m)**

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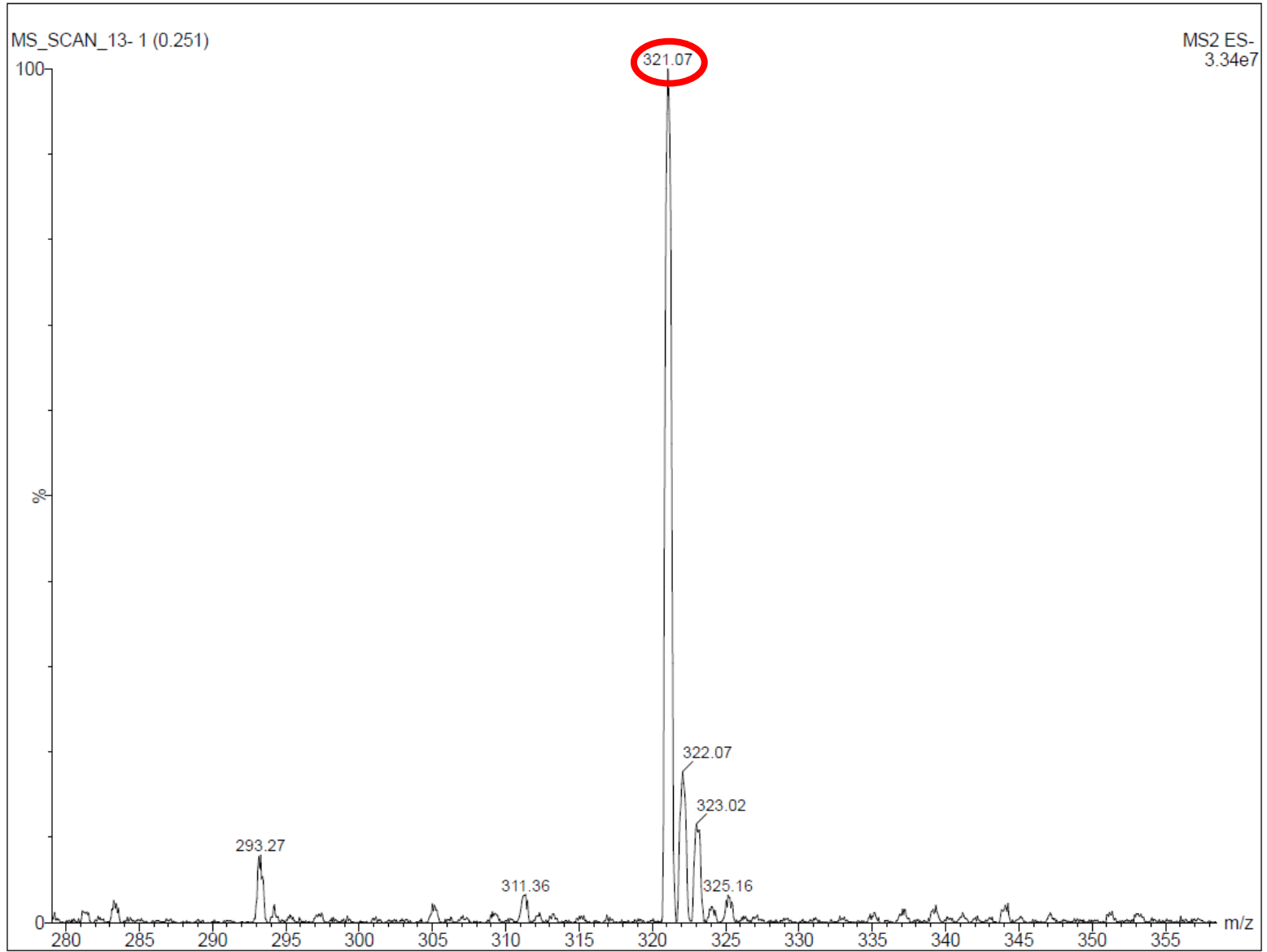


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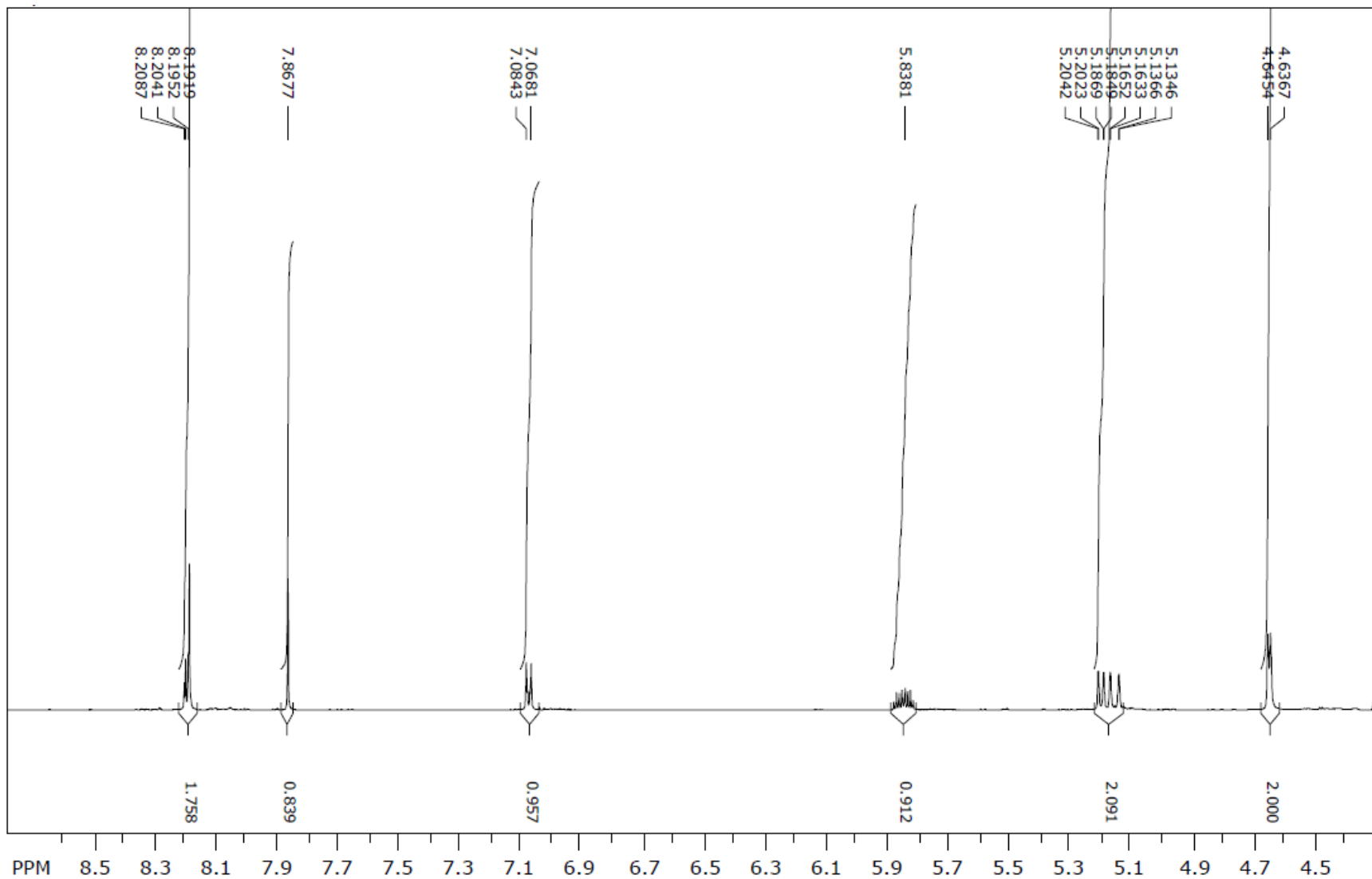
<b>Reaktanti</b>	5-nitrosalicilaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	322,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	199 – 201 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,67
<b>LC/MS/MS <i>m/z</i> (M-)</b>	321,07
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,20 (dd, <i>J</i> = 8,10; 2,76; 1,98 Hz, 2H, arom.), 7,86 (s, 1H, CH), 7,08 (dd, <i>J</i> = 7,38; 2,31 Hz, 1H, arom.), 5,81 – 5,88 (m, 1H, CH), 5,19 (dd, <i>J</i> = 10,38; 1,14; 1,20 Hz, 1H, CH <sub>2</sub> ), 5,15 (dd, <i>J</i> = 17,16; 1,14; 1,20 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz) δ 192,94; 166,51; 139,35; 130,15; 128,00; 126,74; 125,76; 123,62; 120,31; 117,85; 116,92; 46,08.

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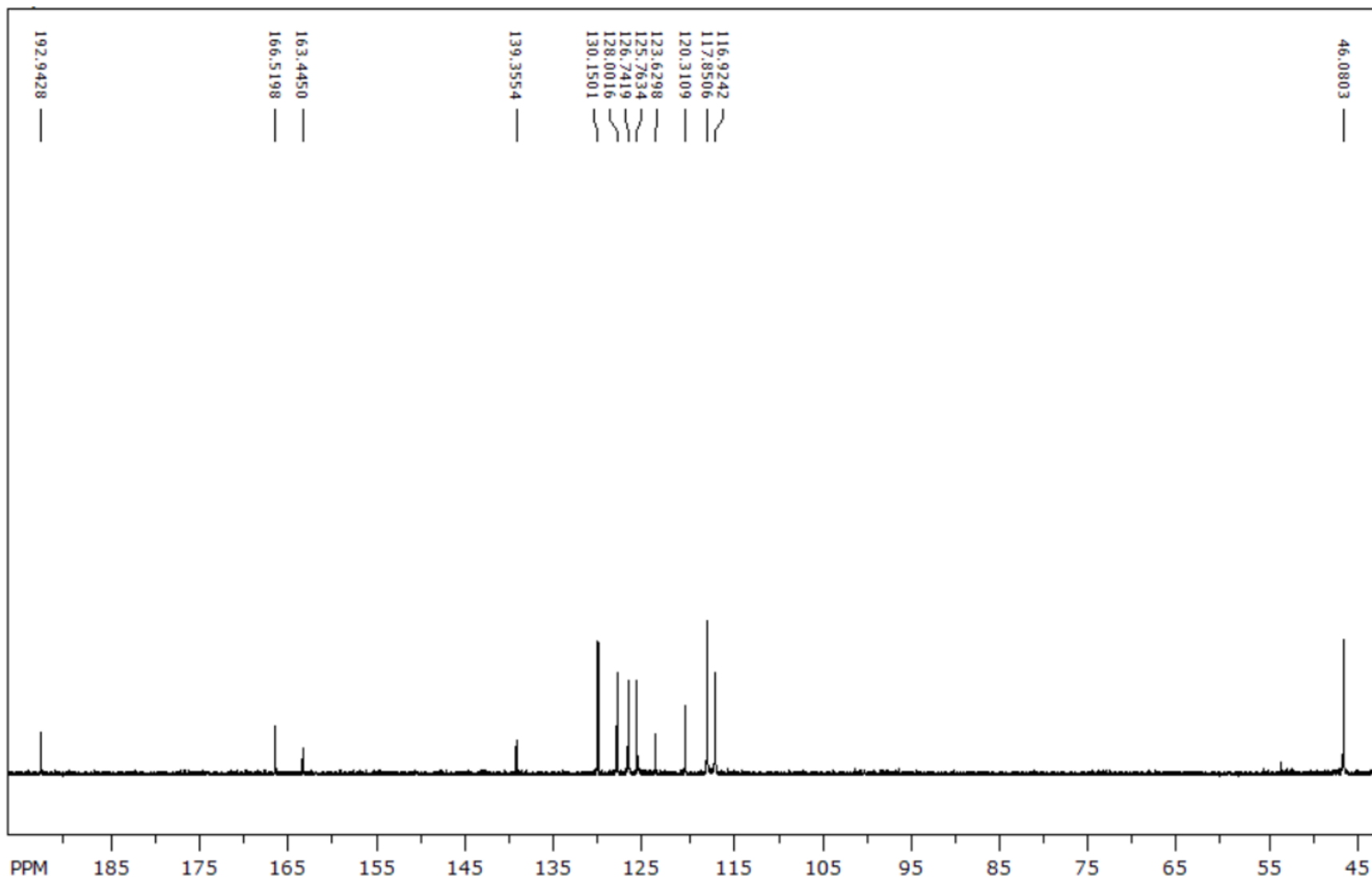
# Maseni spektar (6m)



<sup>1</sup>H NMR spektr (6m)



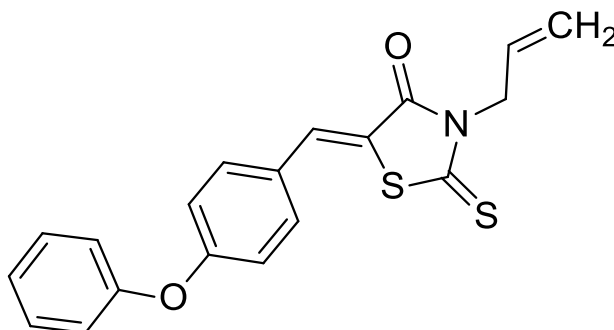
<sup>13</sup>C NMR spektr (6m)



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**3-alil-5-(4-fenoksibenziliden)-2-tioksotiazolidin-4-on (6n)**

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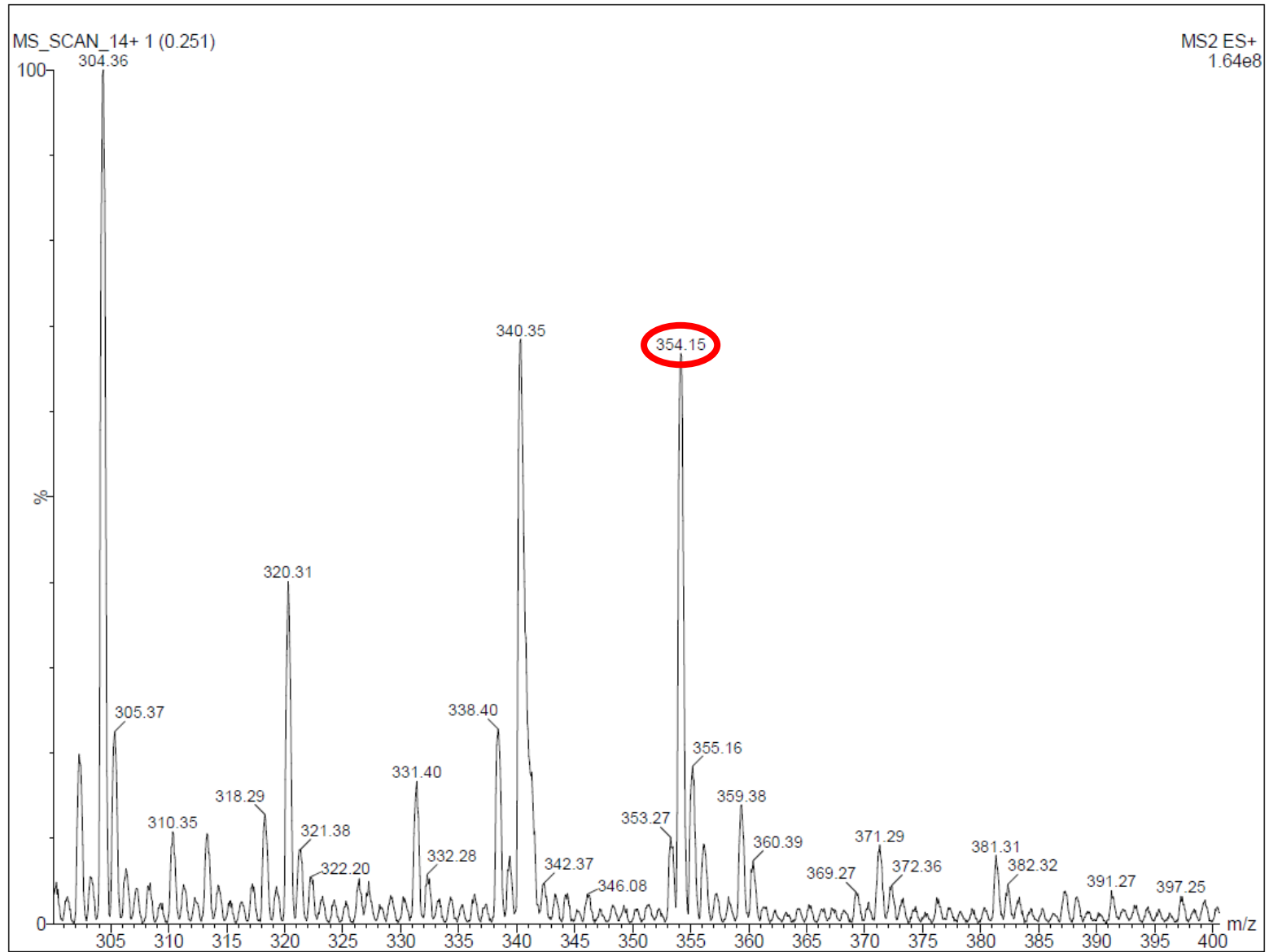
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<b>Reaktanti</b>	3-fenoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	353,46 g/mol
<b>Molekulska formula</b>	C <sub>19</sub> H <sub>15</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	91 – 95 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,93
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	354,15
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,81 (s, 1H, CH), 7,56 (t, <i>J</i> = 7,98 Hz, 1H, arom.), 7,45 (t, <i>J</i> = 7,80; 8,10 Hz, 2H, arom.), 7,40 (d, <i>J</i> = 7,80 Hz, 1H, arom.), 7,22 (dd, <i>J</i> = 12,24; 4,80; 7,38 Hz, 2H, arom.), 7,16 (dd, <i>J</i> = 8,16; 2,10 Hz, 1H, arom.), 7,09 (d, <i>J</i> = 7,80 Hz, 2H, arom.), 5,80 – 5,85 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,32; 0,84 Hz, 1H, CH <sub>2</sub> ), 5,13 (dd, <i>J</i> = 17,28; 0,93 Hz, 1H, CH <sub>2</sub> ), 4,63 (d, <i>J</i> = 5,16 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,87; 166,42; 157,60; 134,81; 132,32; 131,19; 130,23; 125,21; 124,17; 123,28; 120,65; 119,55; 119,27; 117,78; 46,04.

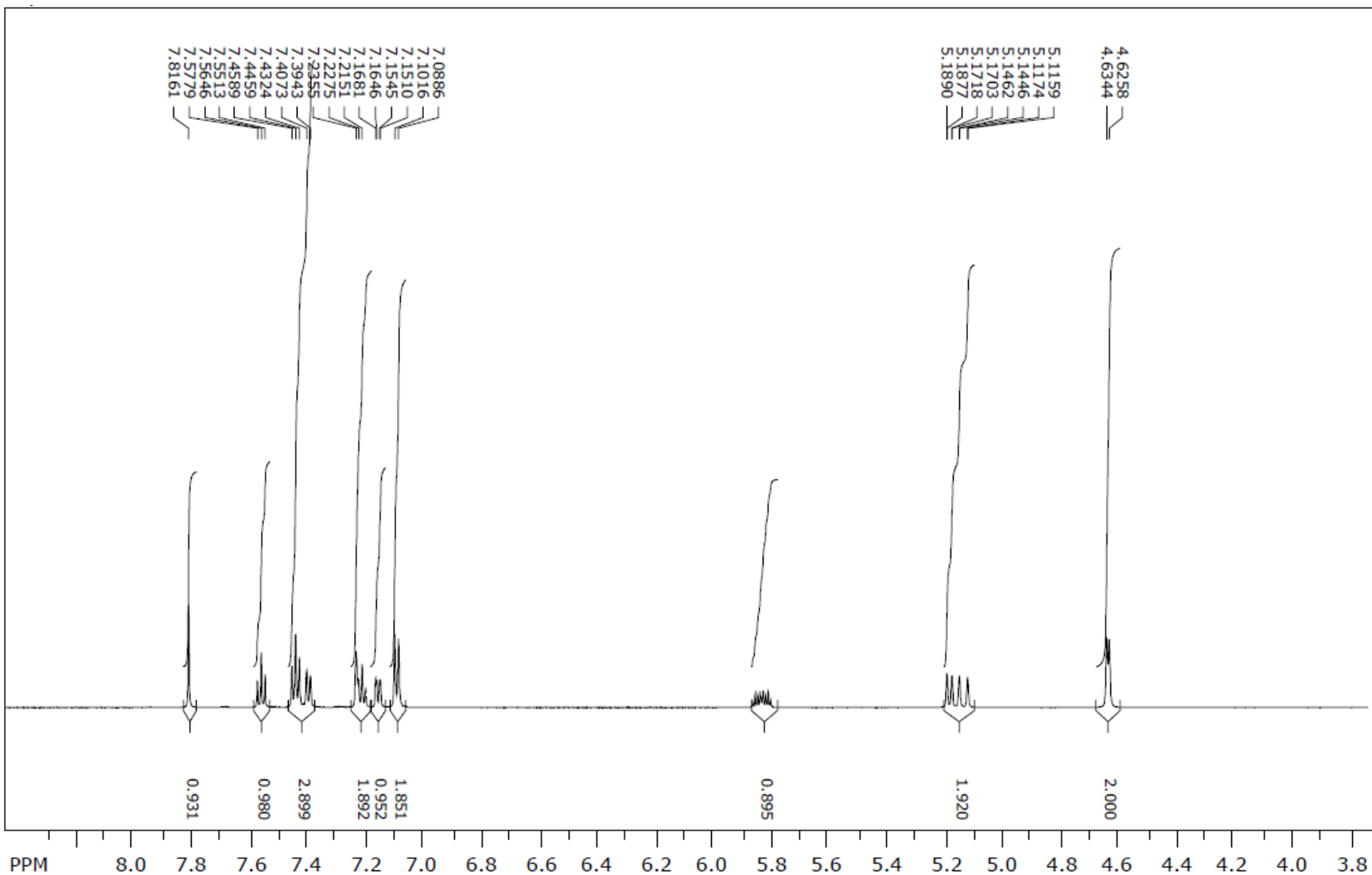
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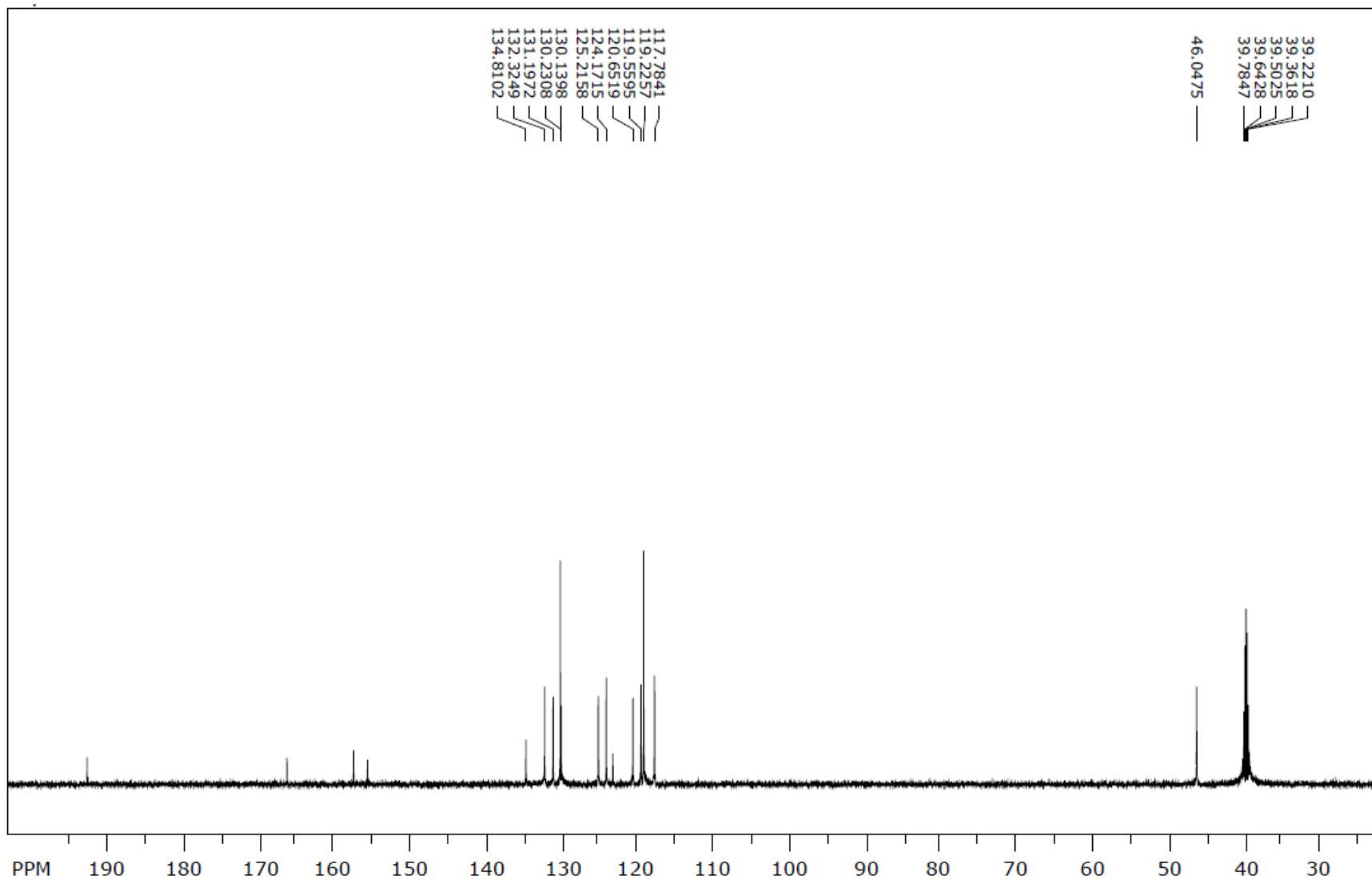
# Maseni spektar (6n)



**<sup>1</sup>H NMR spektr (6n)**



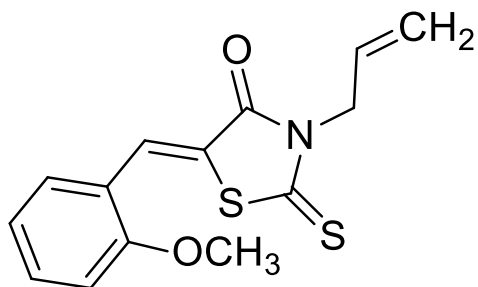
**<sup>13</sup>C NMR spektr (6n)**



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**3-alil-5-(2-metoksibenziliden)-2-tioksotiazolidin-4-on (6o)**

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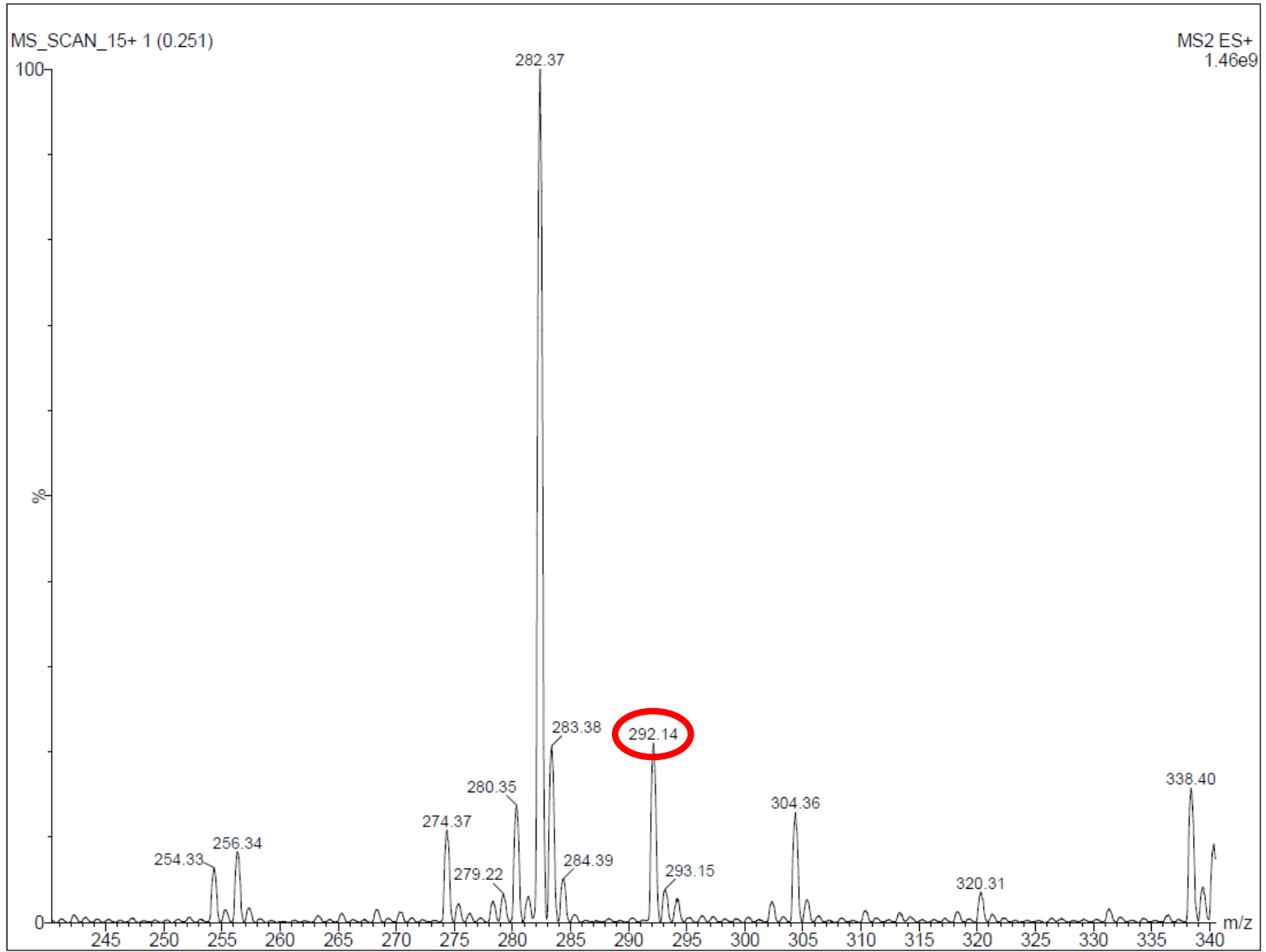


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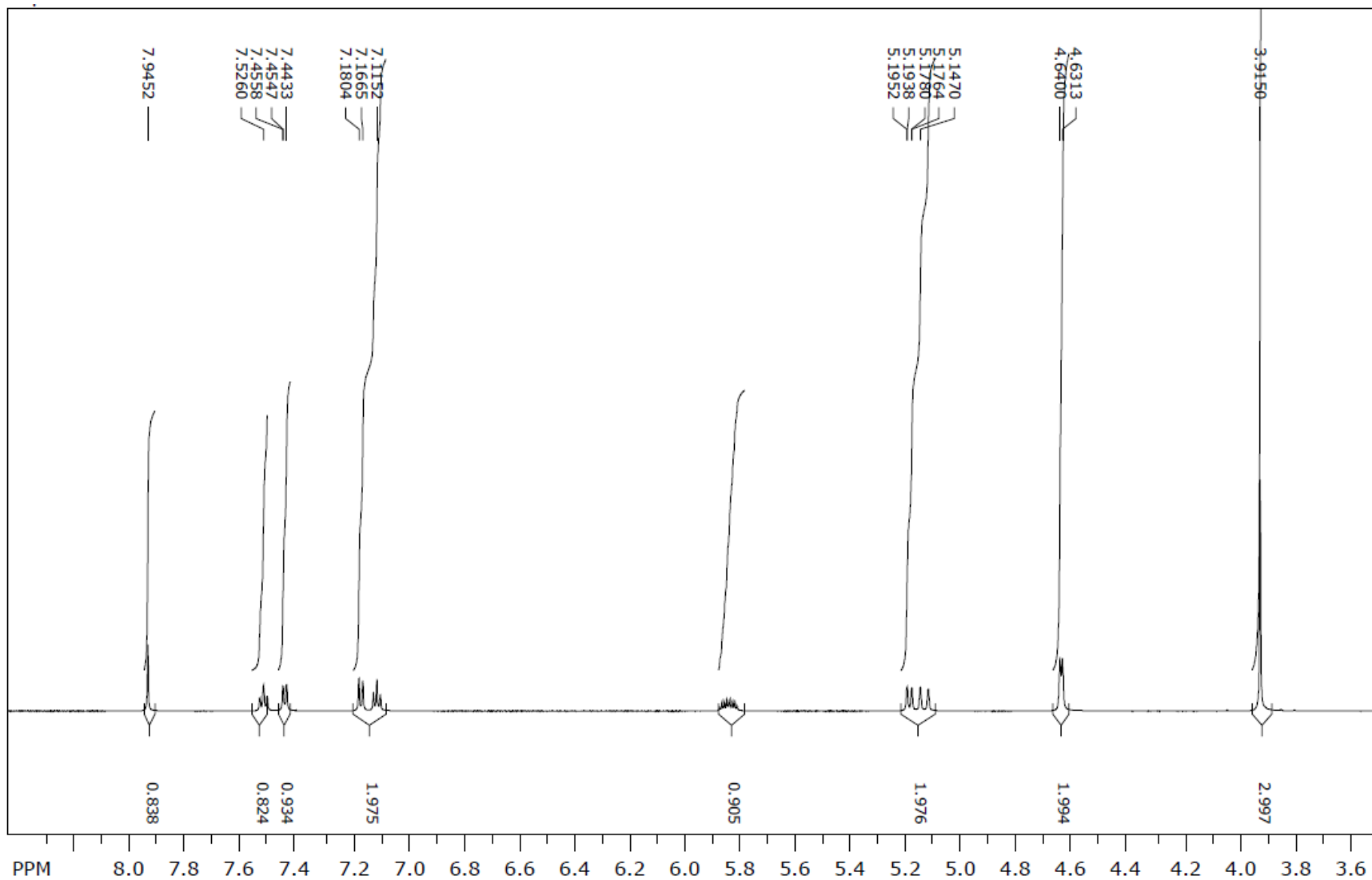
<b>Reaktanti</b>	2-metoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	291,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	102 – 104 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,90
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	292,14
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,94 (s, 1H, OH), 7,52 (t, <i>J</i> = 7,77 Hz, 1H, arom.), 7,44 (d, <i>J</i> = 7,20 Hz, 1H, arom.), 7,17 (d, <i>J</i> = 8,34 Hz, 1H, arom.), 7,12 (t, <i>J</i> = 7,50 Hz, 1H, arom.), 5,81 – 5,87 (m, H, CH), 5,19 (dd, <i>J</i> = 10,32; 0,90 Hz, 1H, CH <sub>2</sub> ), 5,13 (dd, <i>J</i> = 17,22; 0,99 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ), 3,91 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,54; 166,65; 158,13; 133,28; 130,23; 130,09; 128,36; 122,17; 121,24; 117,77; 112,02; 55,76; 46,00.

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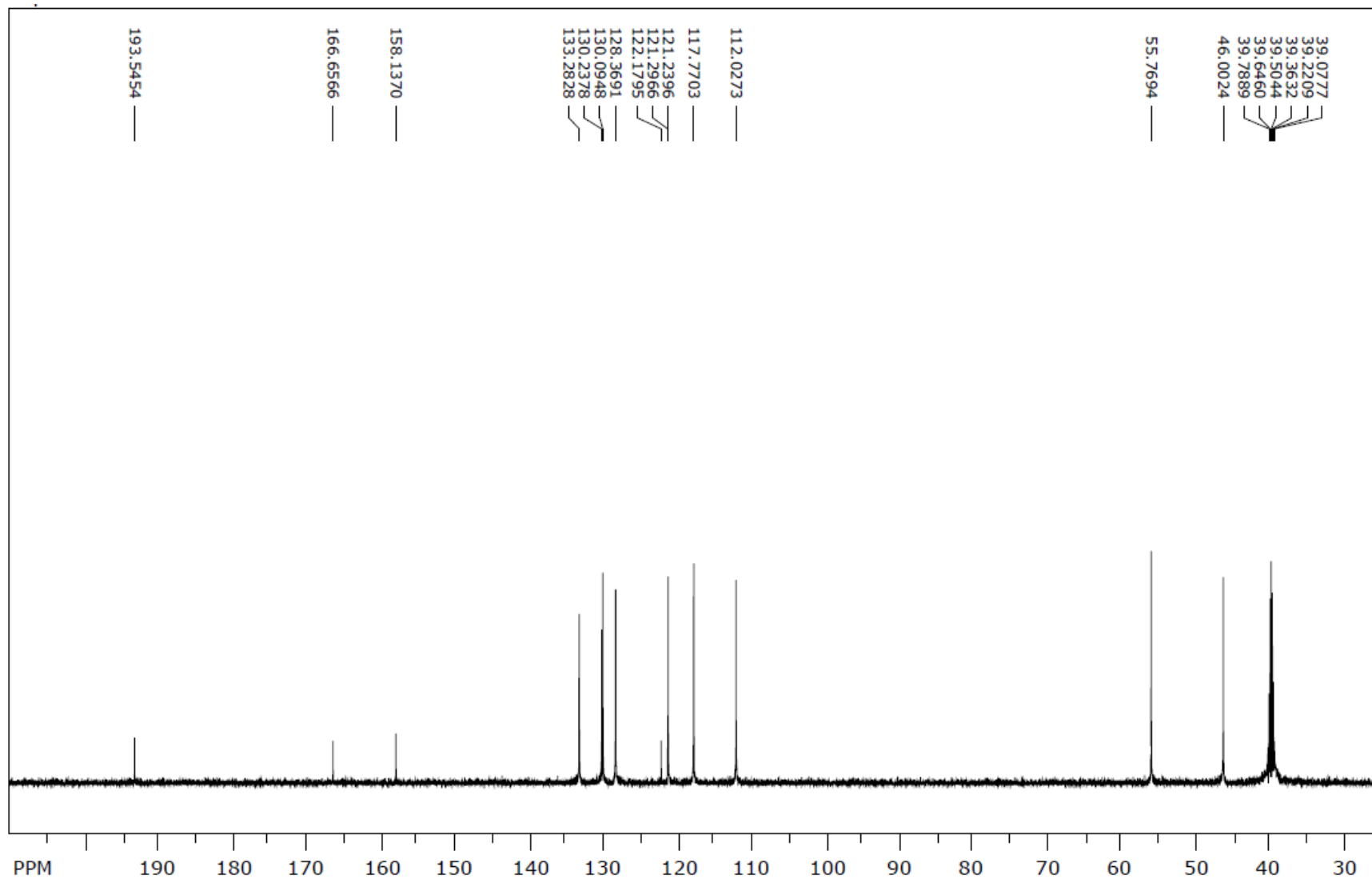
# Maseni spektar (6o)



**<sup>1</sup>H NMR spektr (6o)**



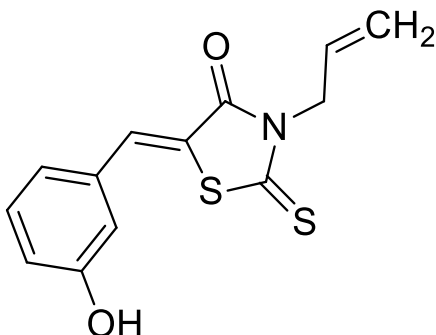
**<sup>13</sup>C NMR spektr (6o)**



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**3-ailil-5-(3-hidroksibenziliden)-2-tioksotiazolidin-4-on (6p)**

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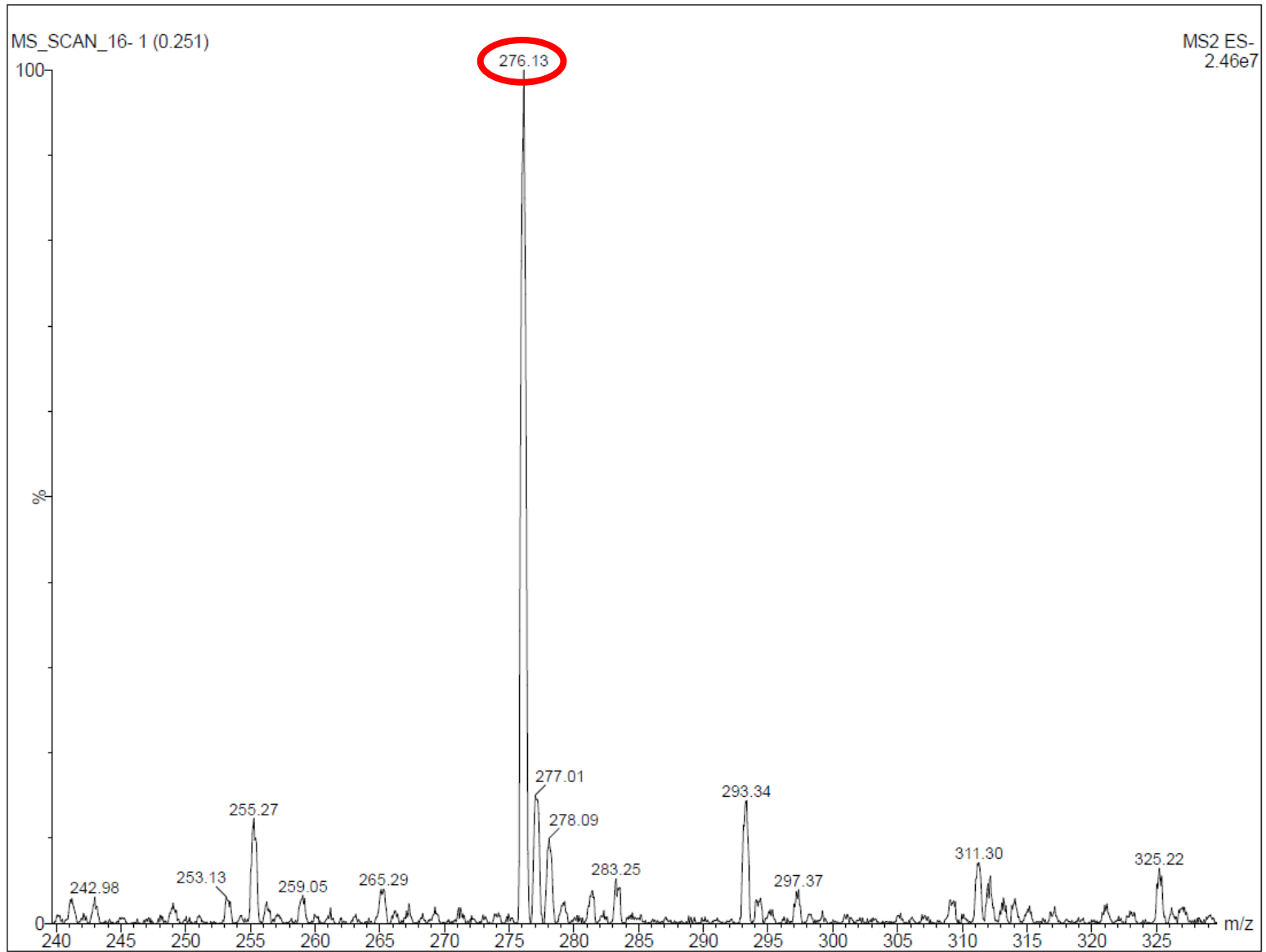
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<b>Reaktanti</b>	3-hidroksibenzaldehid (2 mmol) i 3-aililrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	277,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	142 – 145 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,73
<b>LC/MS/MS <i>m/z</i> (M-)</b>	276,13
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,88 (s, 1H, OH), 7,73 (s, 1H, CH), 7,35 (t, <i>J</i> = 7,89 Hz, 1H, arom.), 7,09 (d, <i>J</i> = 7,68 Hz, 1H, arom.), 7,02 (s, 1H, arom.), 6,92 (dd, <i>J</i> = 8,04; 1,89 Hz, 1H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,19 (dd, <i>J</i> = 10,32; 0,93 Hz, Hz, 1H, CH <sub>2</sub> ), 5,14 (dd, <i>J</i> = 17,22; 0,99 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,15; 166,53; 157,98; 134,07; 133,32; 130,56; 130,19; 122,08; 118,37; 117,80; 116,28; 46,00.

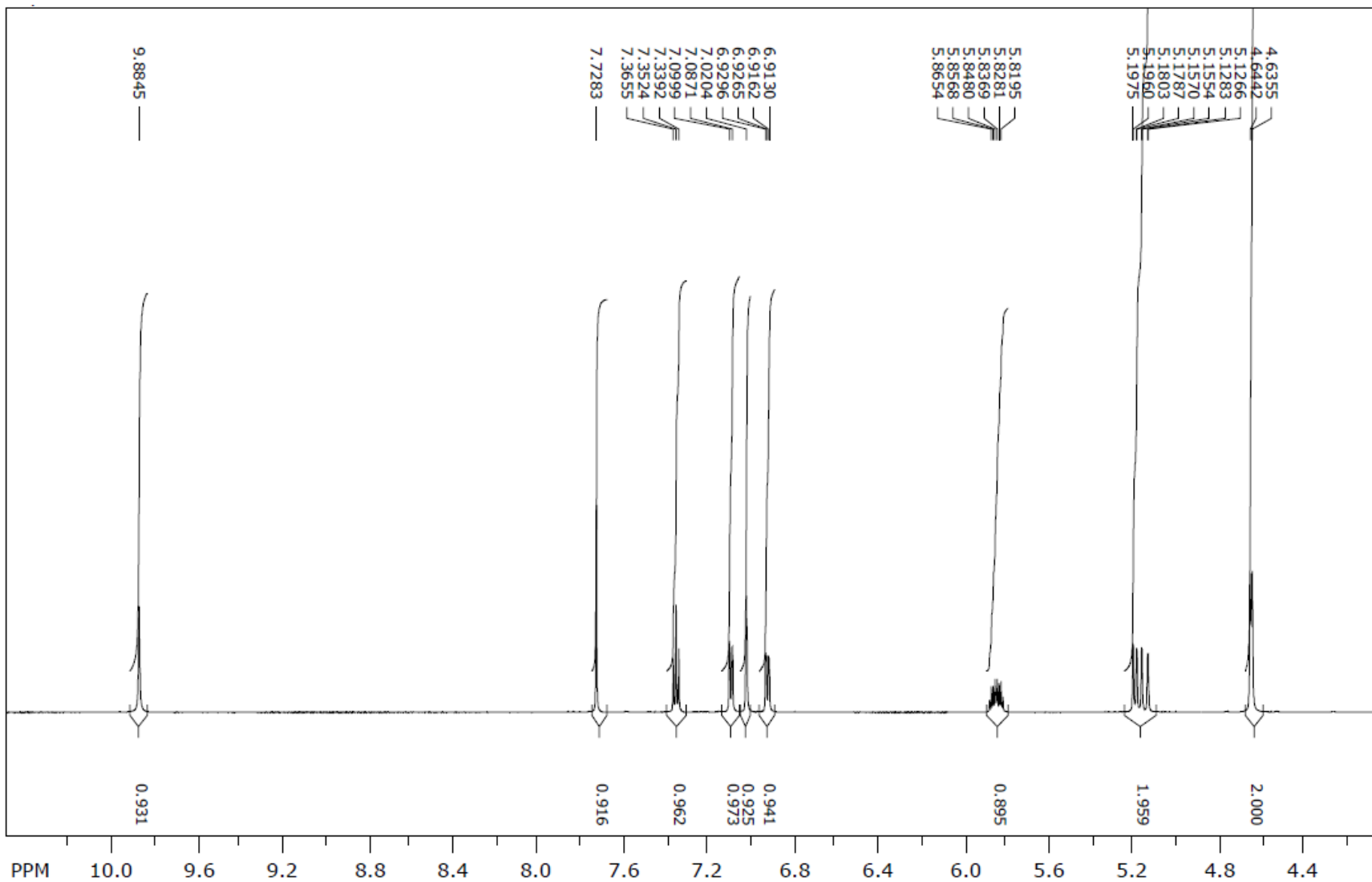
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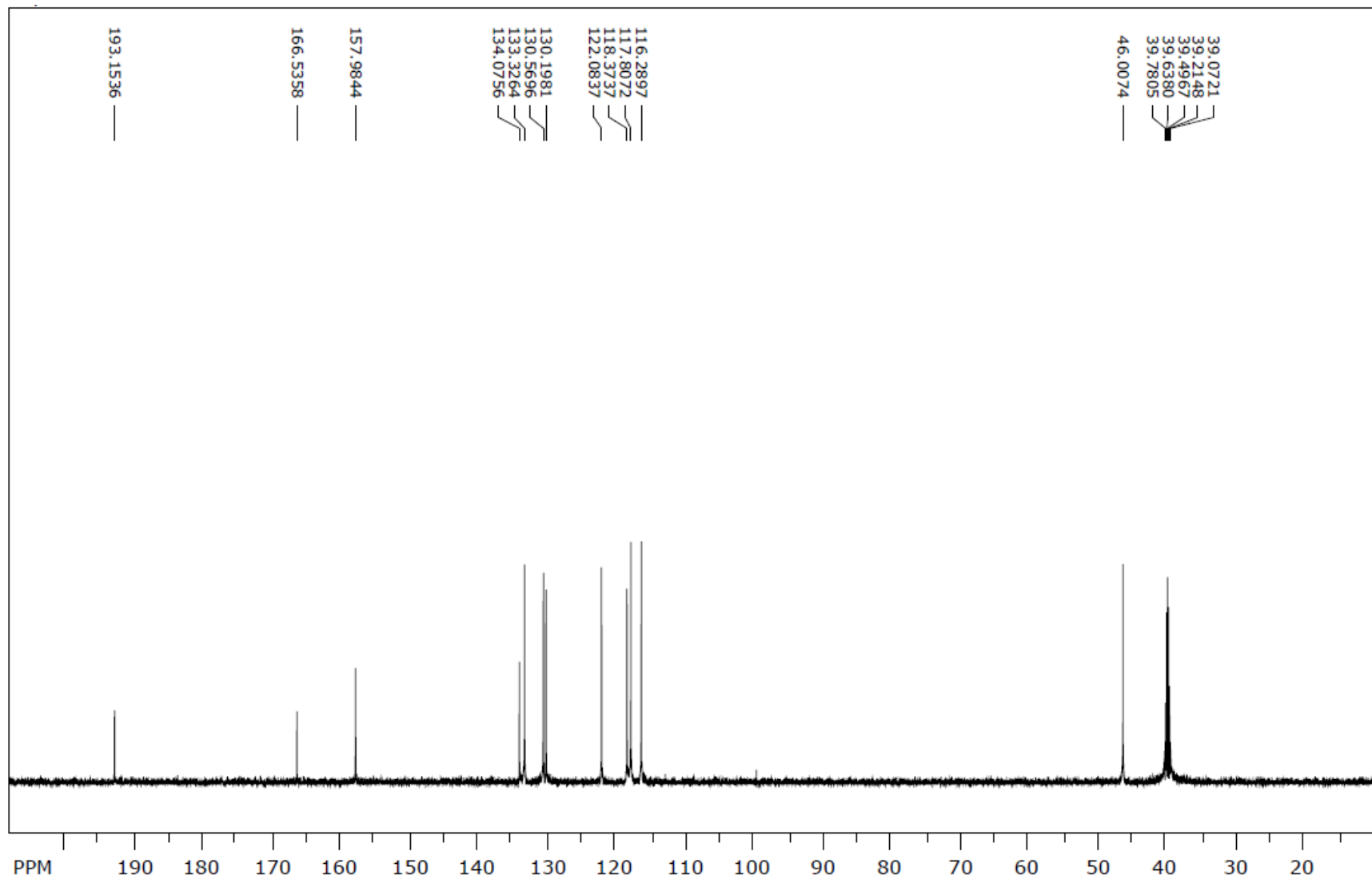
# Maseni spektar (6p)



# <sup>1</sup>H NMR spektr (6p)



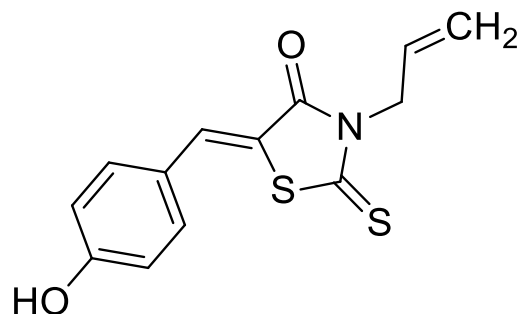
# <sup>13</sup>C NMR spektr (6p)



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**3-alil-5-(4-hidroksibenziliden)-2-tioksotiazolidin-4-on (6q)**

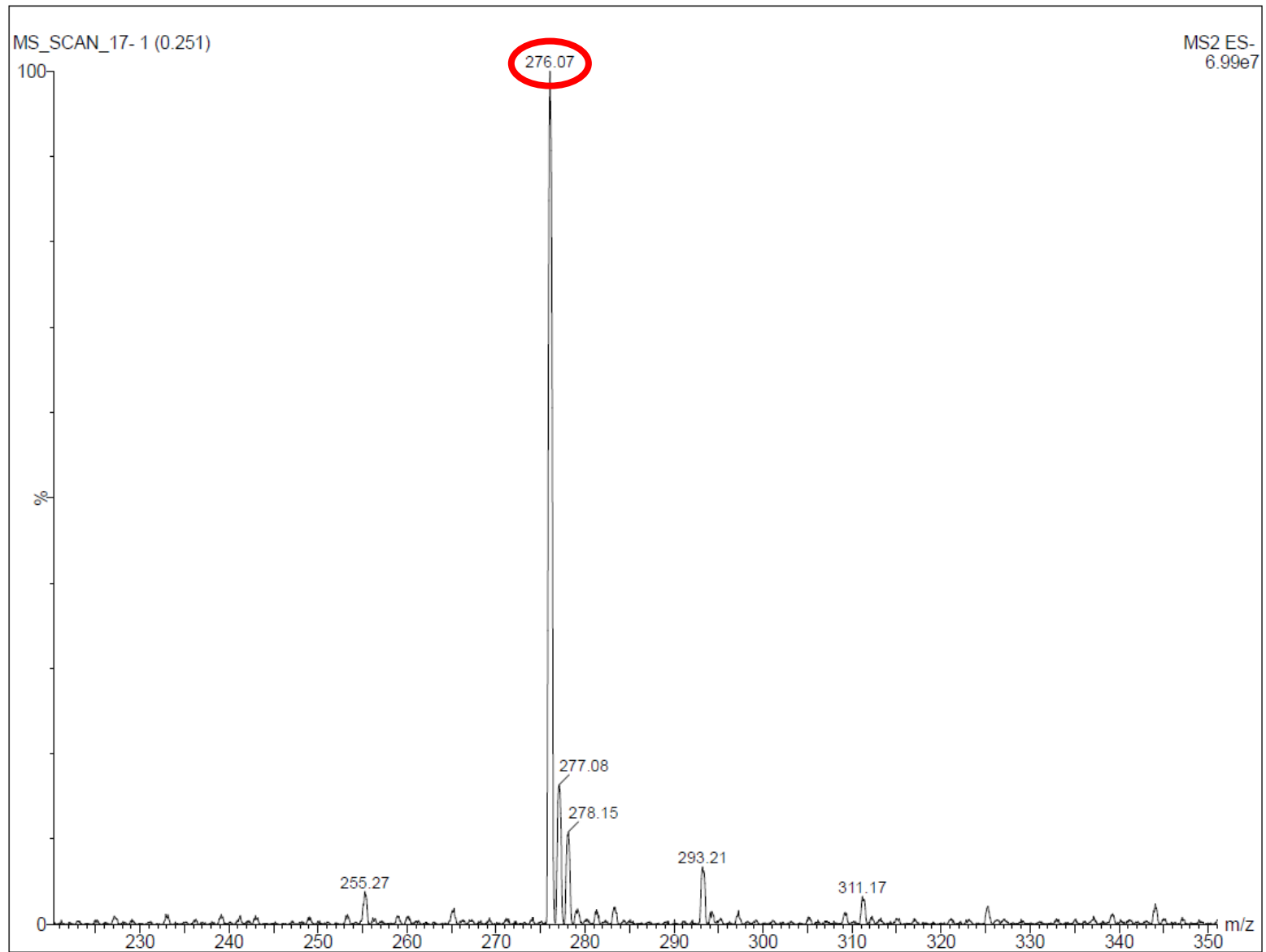
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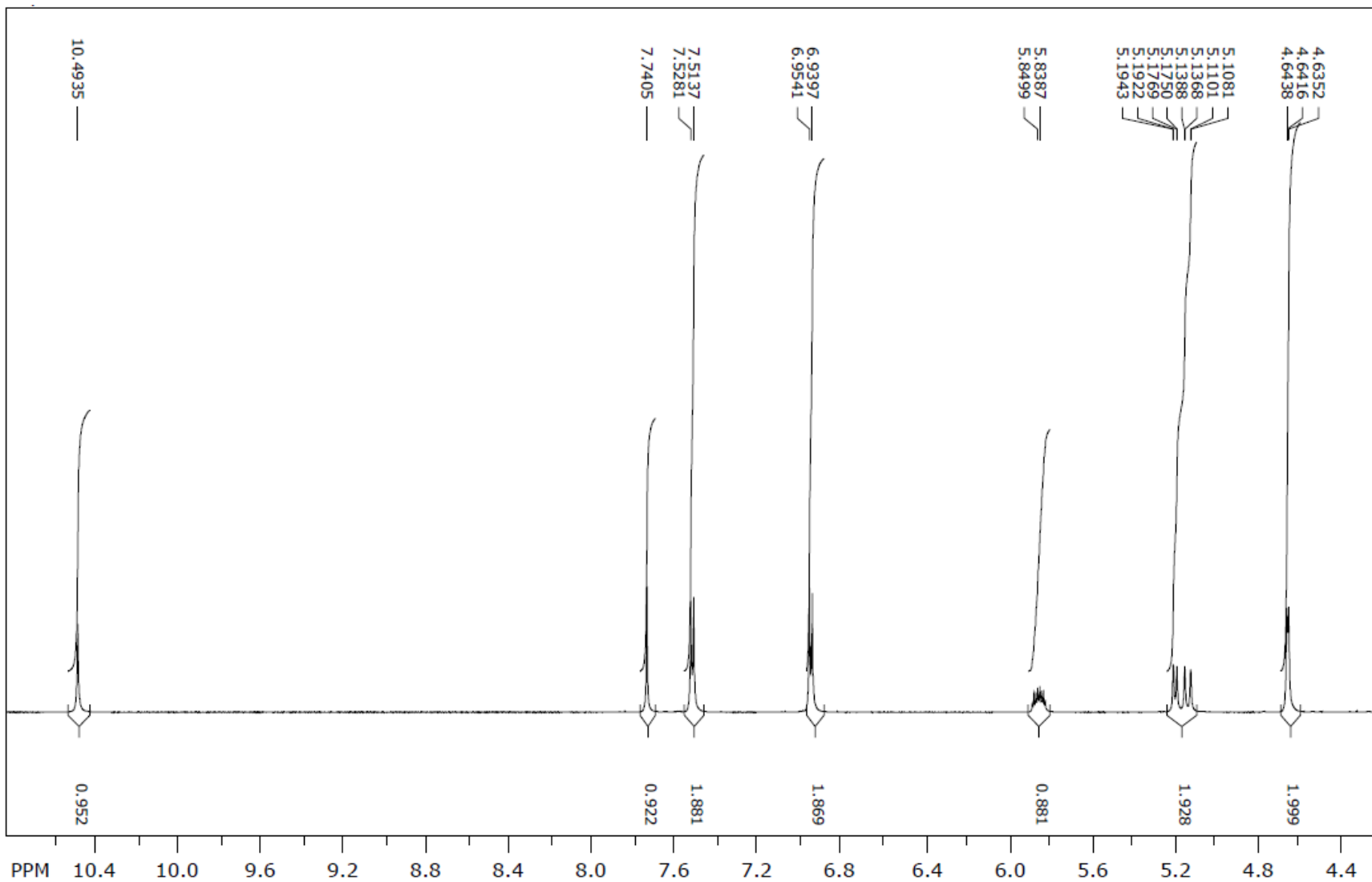
<b>Reaktanti</b>	4-hidroksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročiščavanja</b>	Prekristalizacija iz etanola i metanola
<b>Molekulska masa</b>	277,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	275 – 277 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,86
<b>LC/MS/MS <i>m/z</i> (M-)</b>	276,07
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,49 (s, 1H, OH), 7,74 (s, 1H, CH), 7,52 (d, <i>J</i> = 8,64 Hz, 2H, arom.), 6,95 (d, <i>J</i> = 8,64 Hz, 2H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,44; 1,20 Hz, 1H, CH <sub>2</sub> ), 5,12 (dd, <i>J</i> = 17,22; 1,20 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,16 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,37; 167,15; 161,14; 134,42; 133,84; 130,78; 124,47; 118,19; 118,06; 117,09; 46,42.

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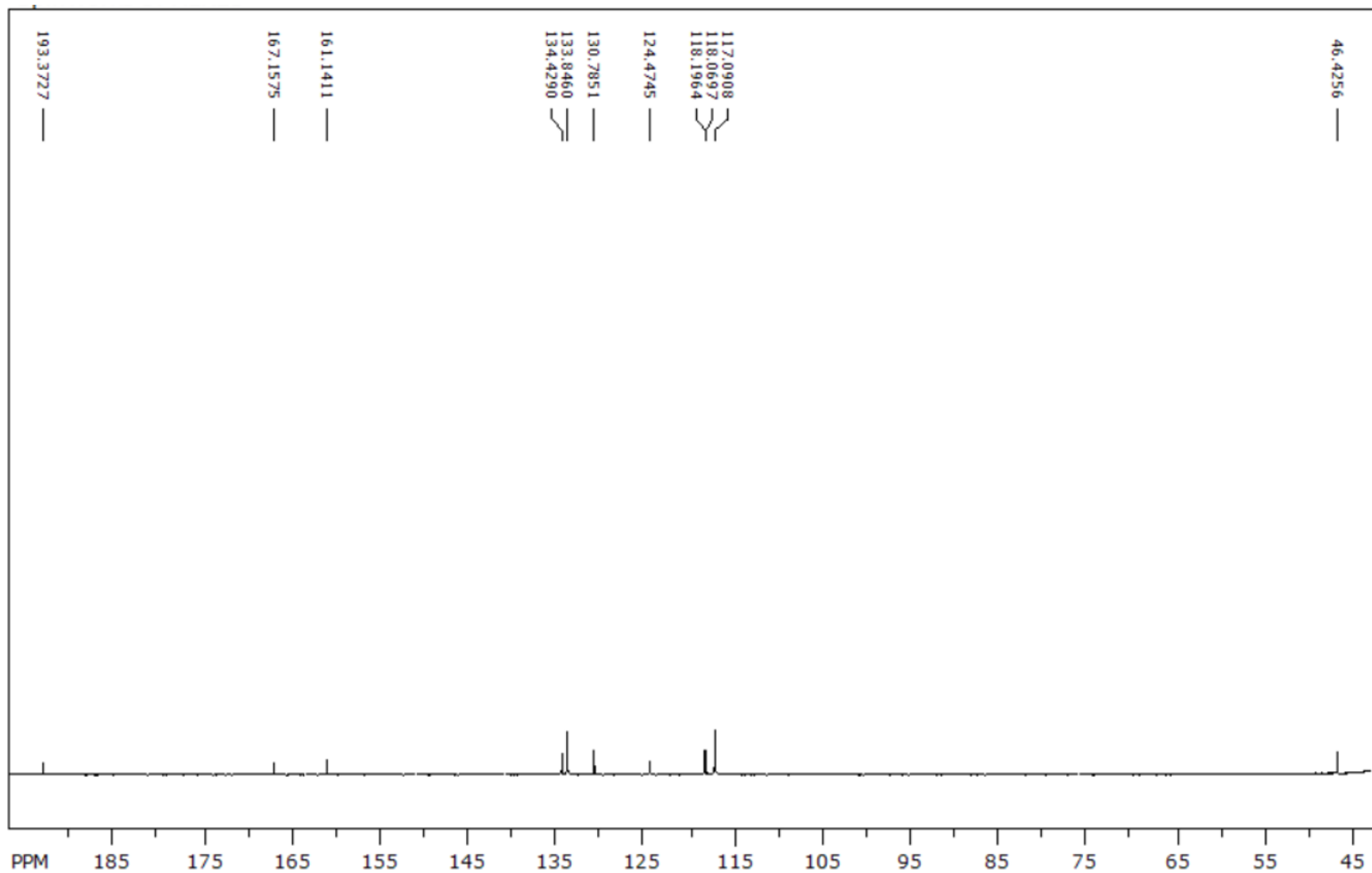
# Maseni spektr (6q)



# <sup>1</sup>H NMR spektr (6q)



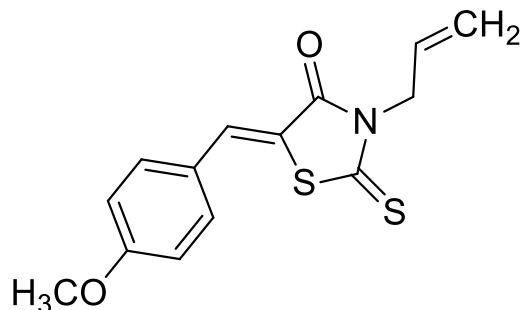
<sup>13</sup>C NMR spektar (6q)



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**3-alil-5-(4-metoksibenzilidene)-2-tioksotiazolidin-4-on (6r)**

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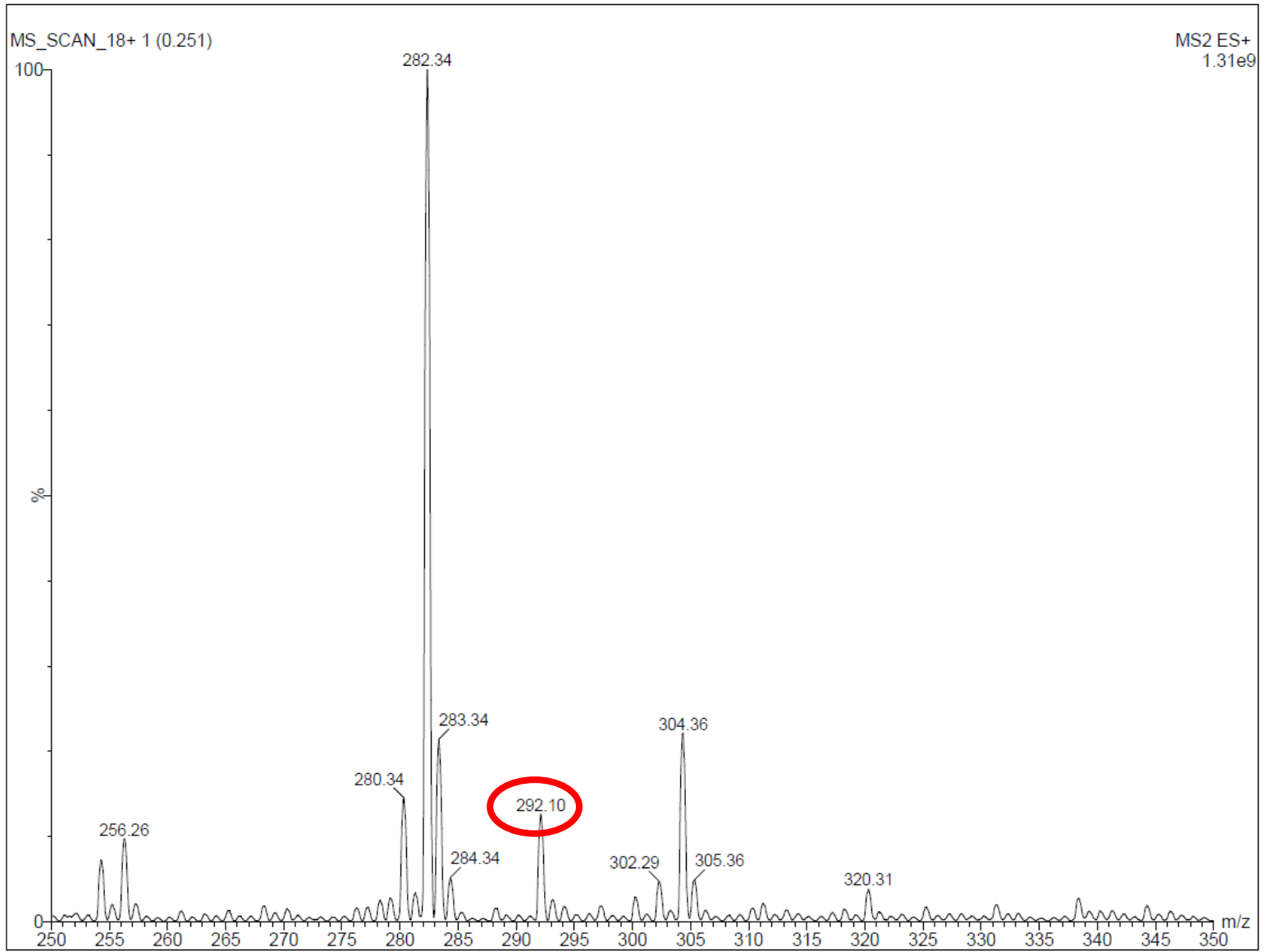


<b>Reaktanti</b>	4-metoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	291,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	109 – 111 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,90
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	292,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,79 (s, 1H, CH), 7,62 (d, <i>J</i> = 8,76 Hz, 2H, arom.), 7,12 (d, <i>J</i> = 8,76 Hz, 2H, arom.), 5,81 – 5,88 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,32; 1,08 Hz, 1H, CH <sub>2</sub> ), 5,13 (dd, <i>J</i> = 17,22; 1,20 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,97; 166,62; 161,55; 133,37; 132,95; 130,25; 125,48; 118,90; 117,72; 115,14; 55,57; 45,96.

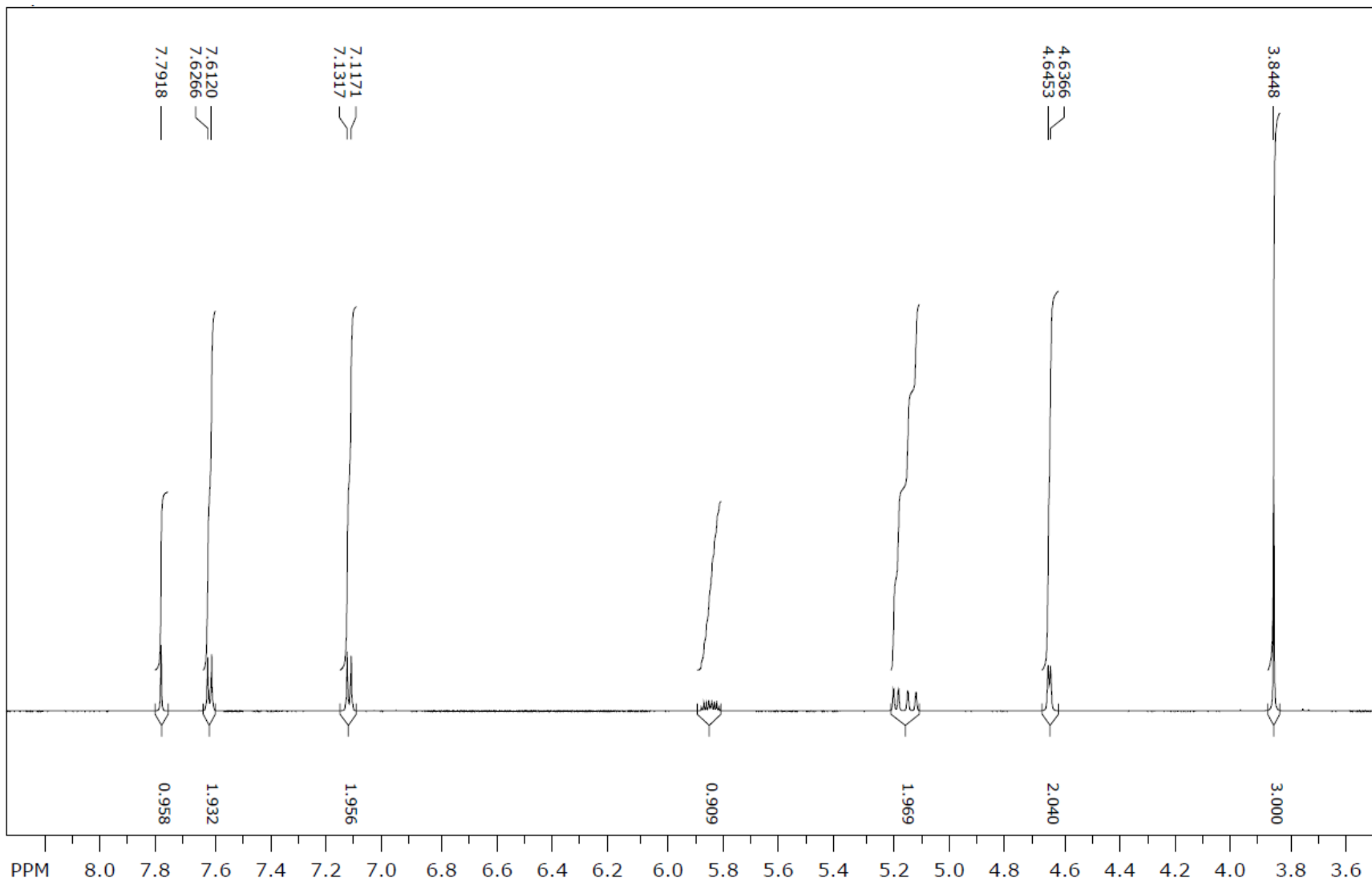
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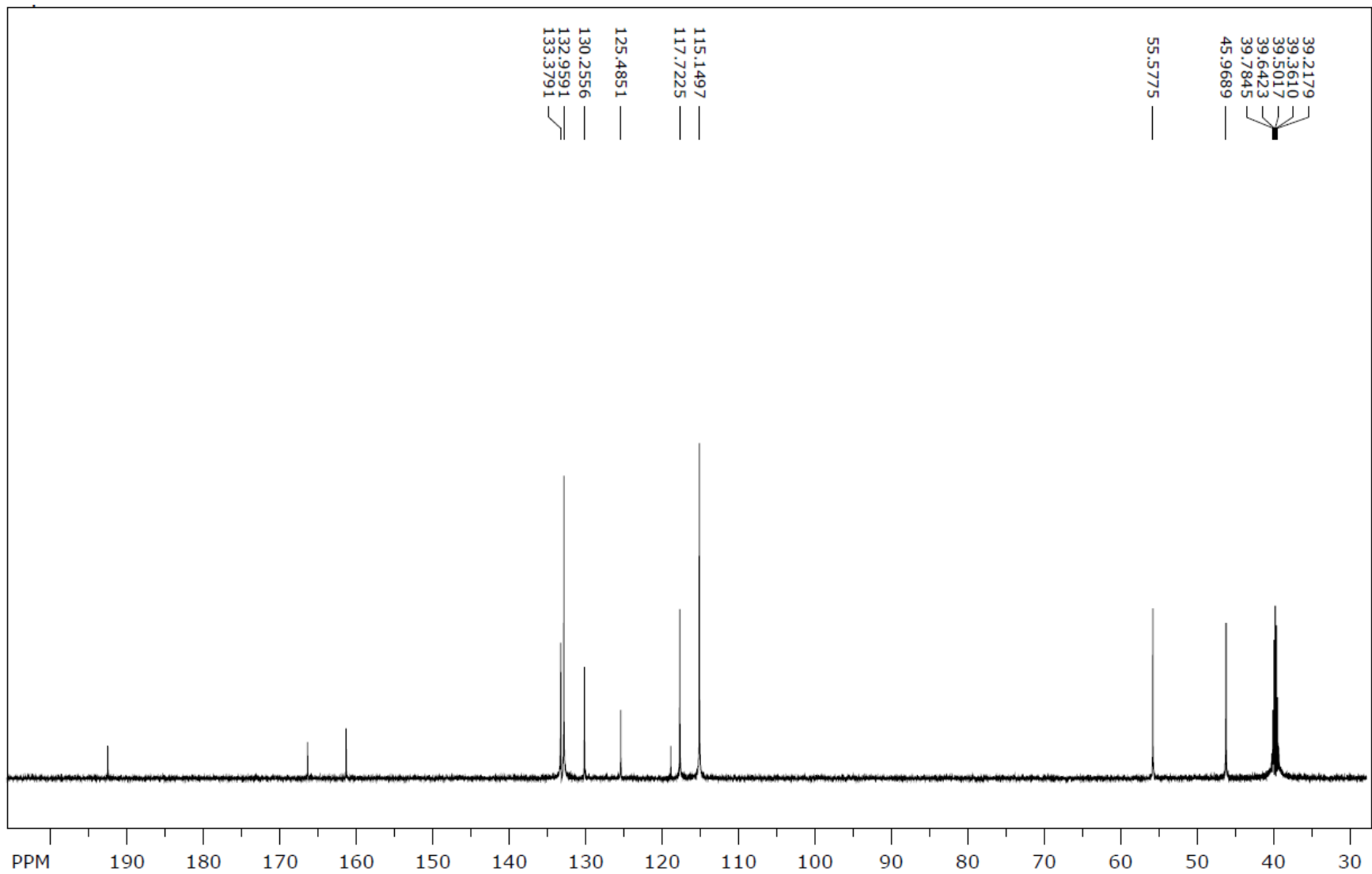
# Maseni spektar (6r)



**<sup>1</sup>H NMR spektr (6r)**



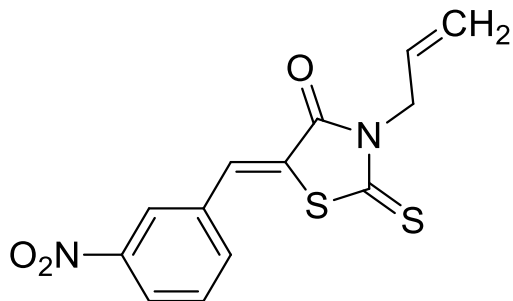
**<sup>13</sup>C NMR spektr (6r)**



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**3-alil-5-(3-nitrobenziliden)-2-tioksotiazolidin-4-on (6s)**

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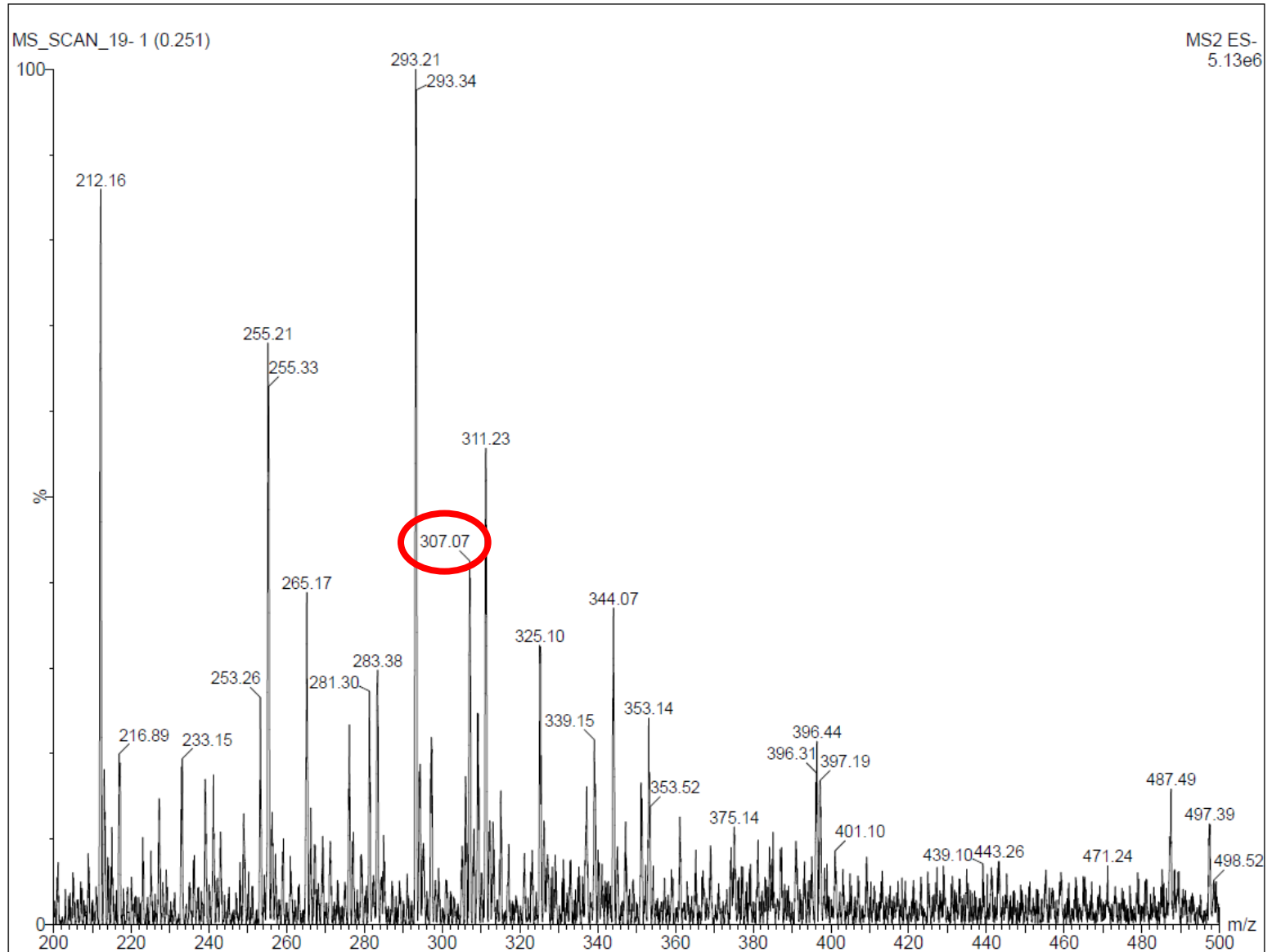


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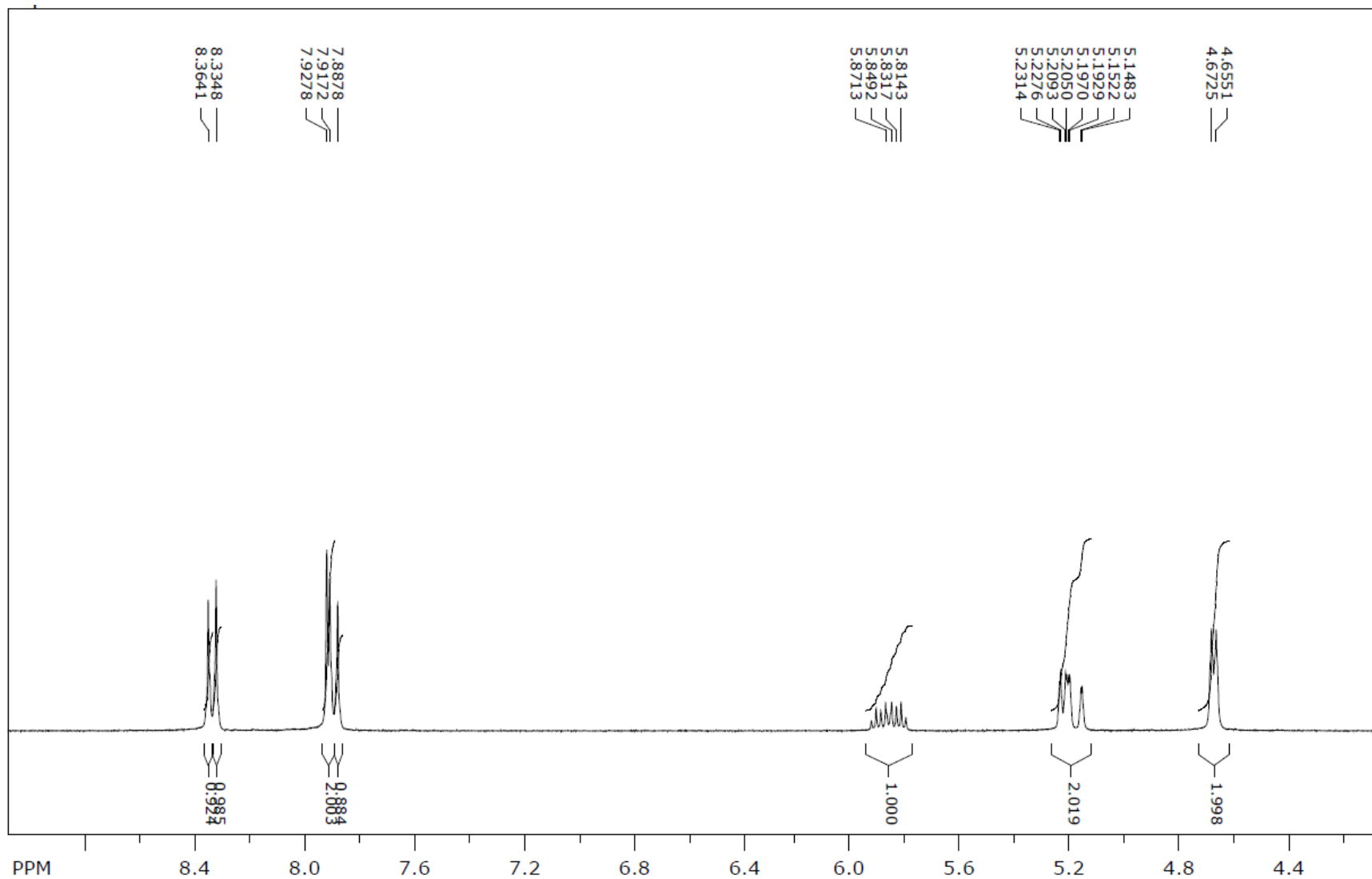
<b>Reaktanti</b>	3-nitrobenzalhid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročiščavanja</b>	Ispran heksan : etanol (4 : 1)
<b>Molekulska masa</b>	306,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	161 – 163 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,92
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	307,07
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,36 (s, 1H, arom.), 8,33 (s, 1H, arom.), 7,92 (d, <i>J</i> = 3,18 Hz, 2H, arom.), 7,88 (s, 1H, CH), 5,80 – 5,92 (m, 1H, CH), 5,22 (dd, <i>J</i> = 6,63; 1,22 Hz, 1H, CH <sub>2</sub> ), 5,17 (dd, <i>J</i> = 13,44; 1,20 Hz, 1H, CH <sub>2</sub> ), 4,66 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,14; 166,87; 148,11; 139,52; 131,97; 130,52; 127,18; 124,84; 46,67.

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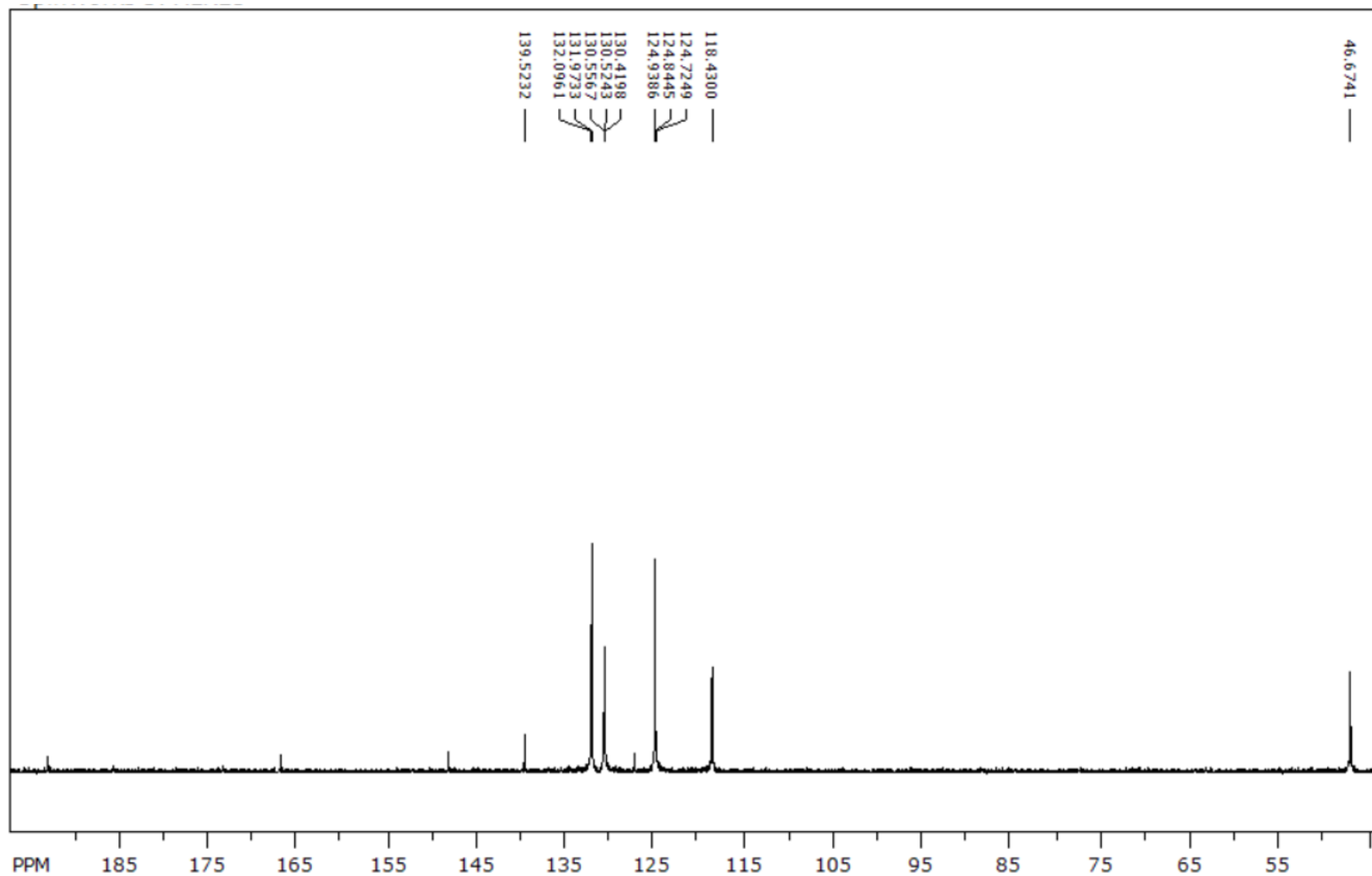
# Maseni spektr (6s)



**<sup>1</sup>H NMR spektr (6s)**



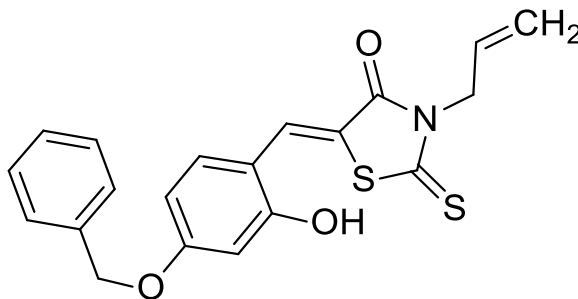
<sup>13</sup>C NMR spektr (6s)



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**3-alil-5-(4-(benziloksi)-2-hidroksibenziliden)-2-tioksotiazolidin-4-on (6t)**

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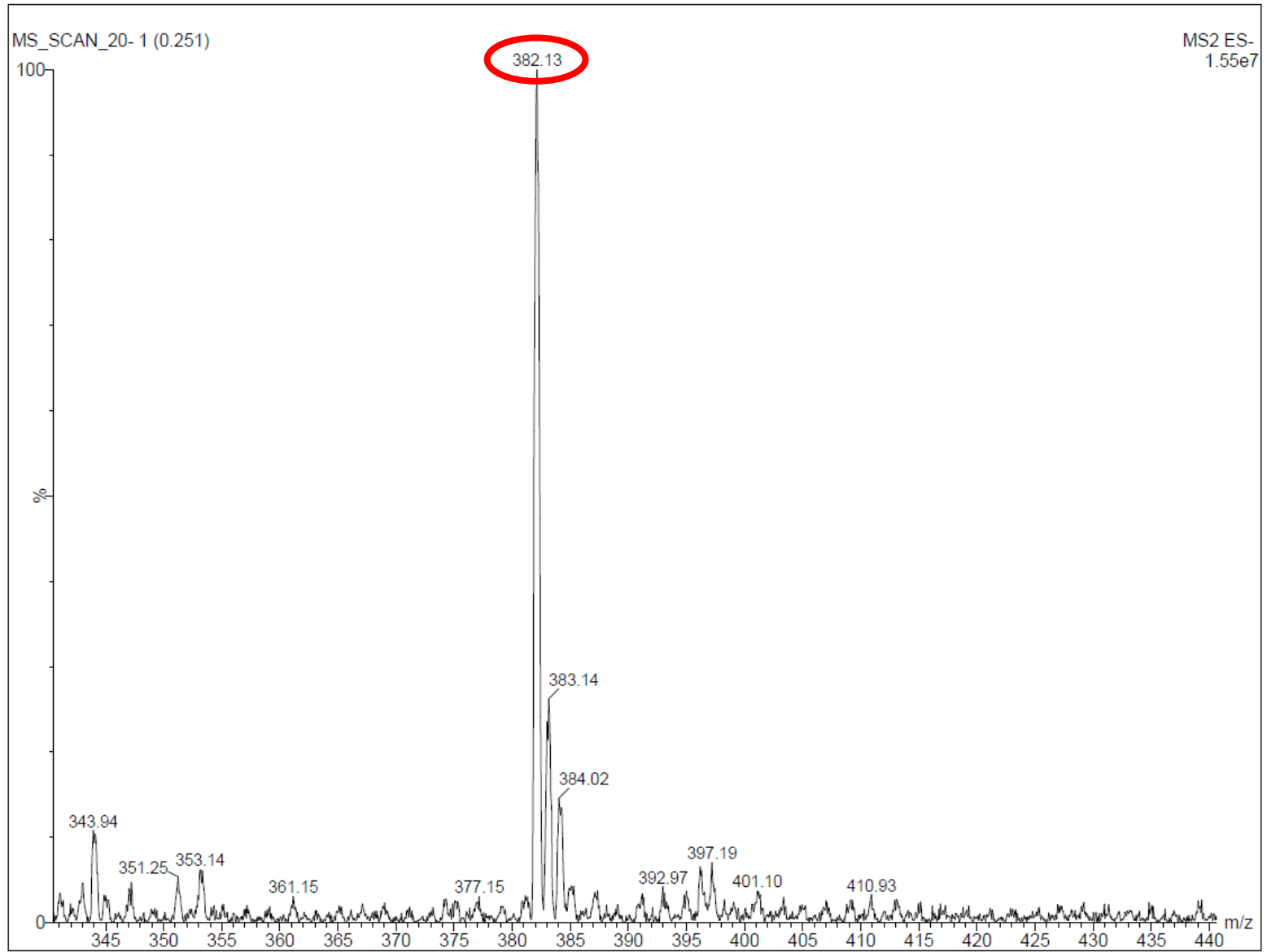
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<b>Reaktanti</b>	4-(benziloksi) sakicilaldehid (1 mmol) i 3-alilrodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	383,48 g/mol
<b>Molekulska formula</b>	C <sub>20</sub> H <sub>17</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	182 -186 °C
<b>Boja kristala</b>	Tamnocrvena
<b>R<sub>f</sub></b>	0,77
<b>LC/MS/MS m/z (M-)</b>	382,13
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,92 (s, 1H, OH), 7,96 (s, 1H, CH), 7,45 (d, <i>J</i> = 7,20 Hz, 2H, arom.), 7,41 (t, <i>J</i> = 7,32; 7,62 Hz, 2H, arom.), 7,35 (t, <i>J</i> = 7,20 Hz, 1H, arom.), 7,31 (d, <i>J</i> = 8,76 Hz, 1H, arom.), 6,69 (dd, <i>J</i> = 8,76; 2,37 Hz, 1H, arom.), 6,58 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,20; 1,02; 1,20 Hz, 1H, CH <sub>2</sub> ), 5,13 (s, 2H, CH <sub>2</sub> ), 5,11 (dd, <i>J</i> = 17,22; 1,08 Hz, 1H, CH <sub>2</sub> ), 4,63 (d, <i>J</i> = 5,16 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,20; 166,82; 162,57; 159,59; 136,34; 131,35; 130,35; 129,02; 128,47; 128,01; 127,73; 117,66; 117,06; 113,44; 107,84; 101,97; 69,46; 45,90.

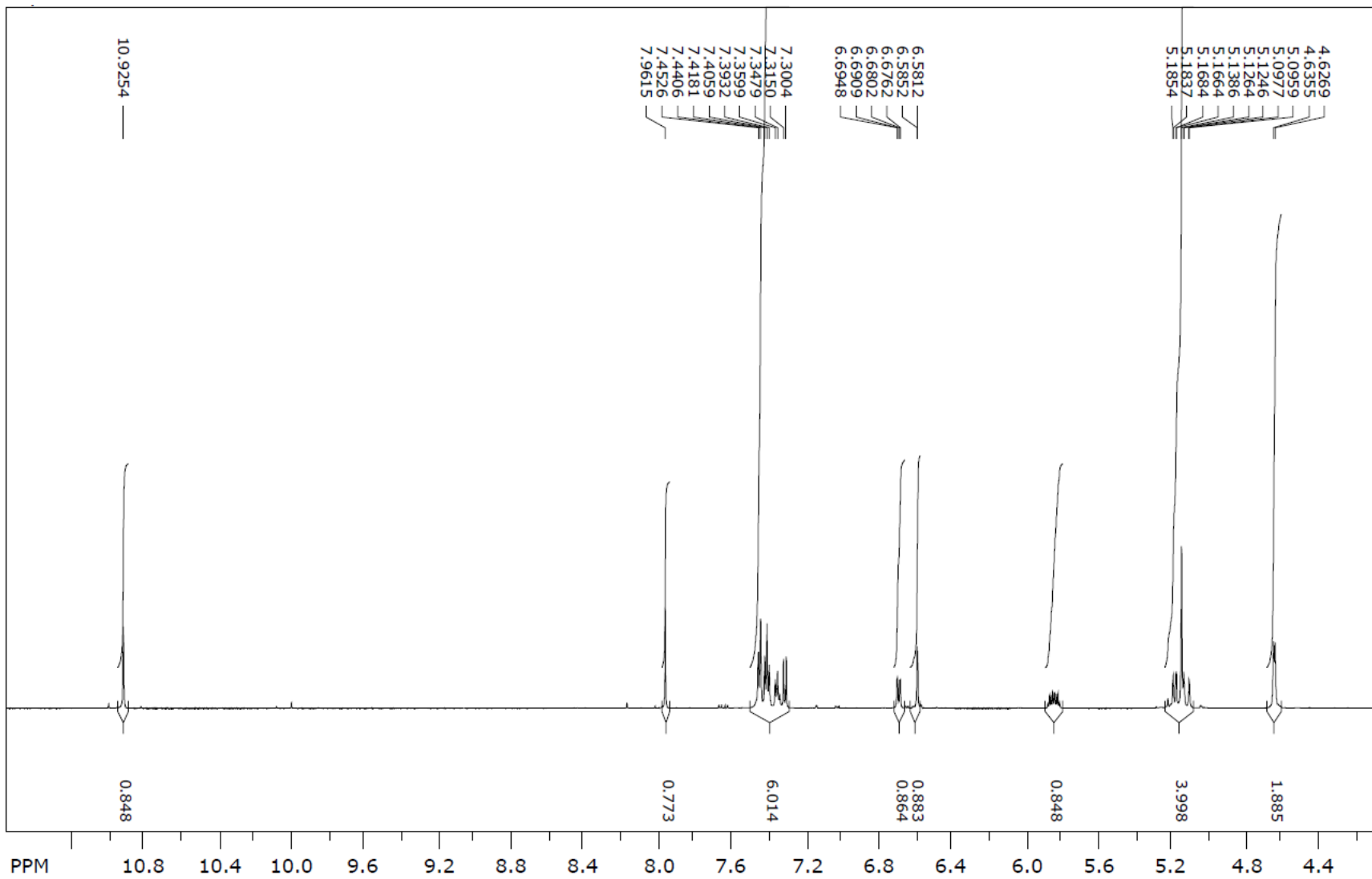
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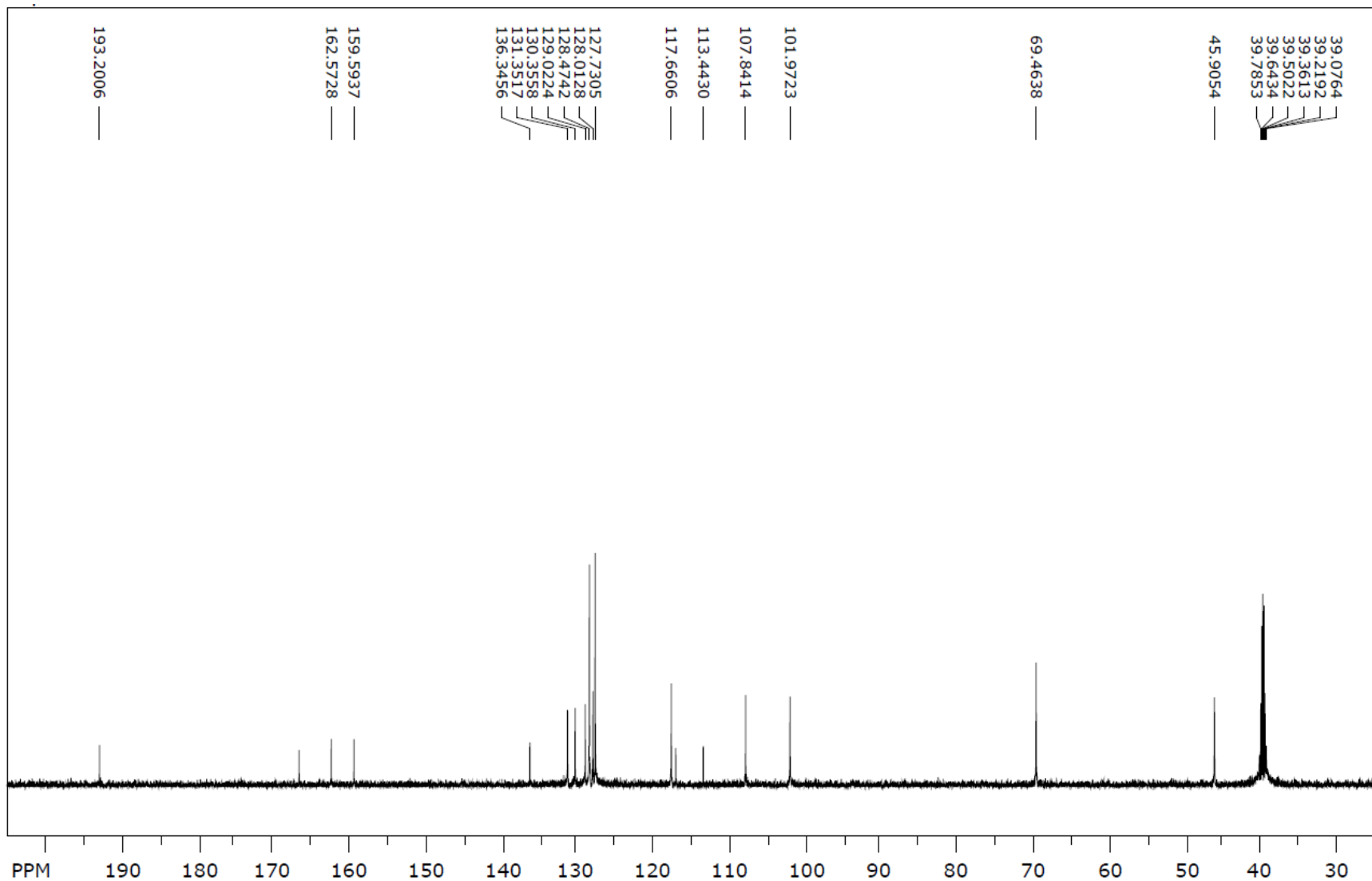
# Maseni spektar (6t)



<sup>1</sup>H NMR spektr (6t)



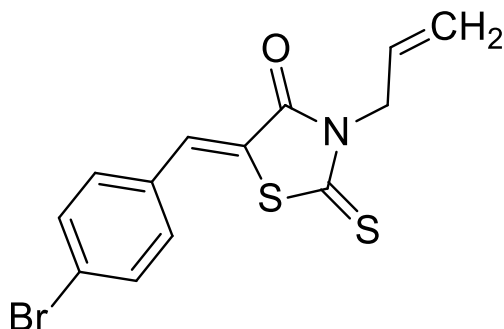
# <sup>13</sup>C NMR spektr (6t)



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**3-alil-5-(4-brombenziliden)-2-tioksotiazolidin-4-on (6u)**

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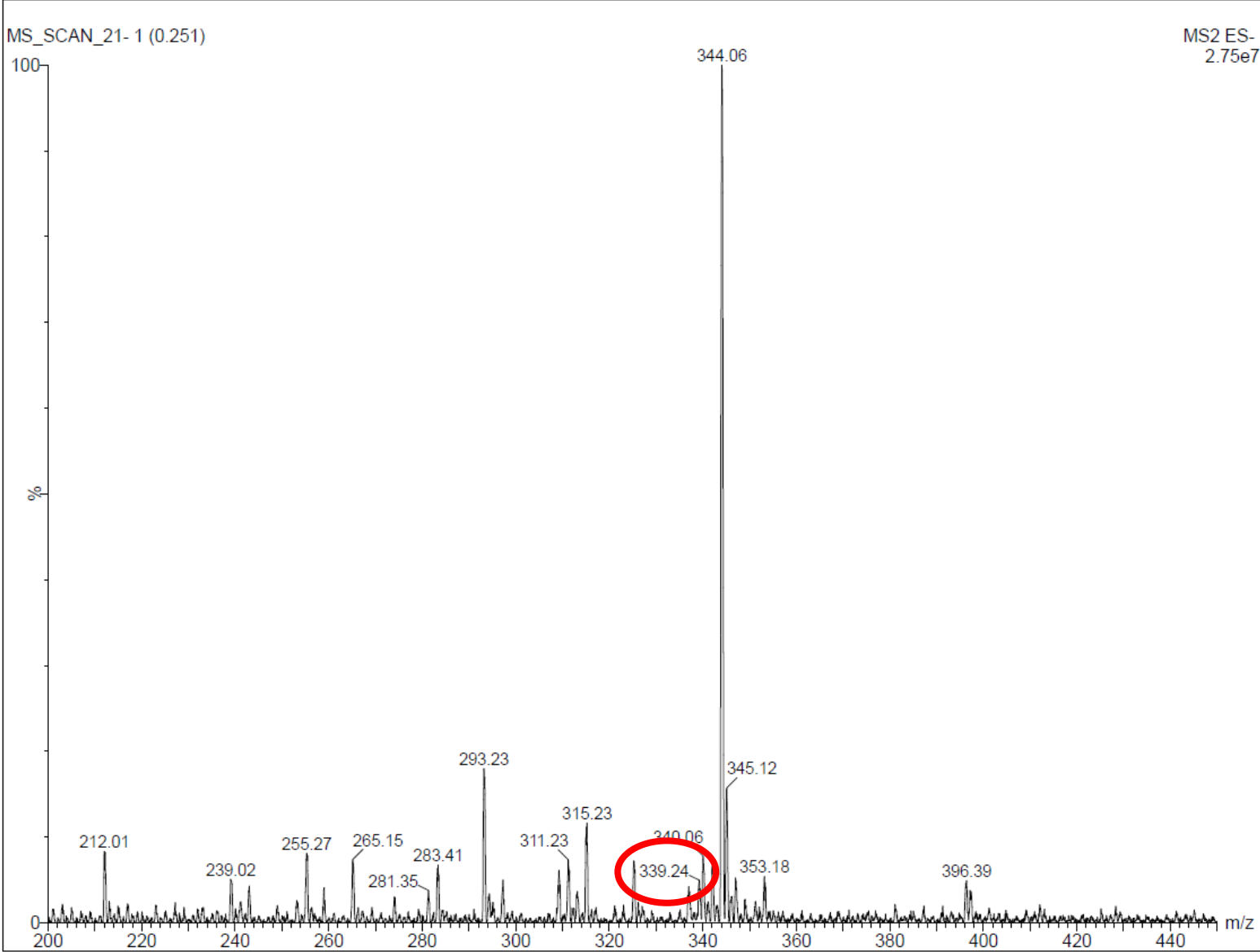


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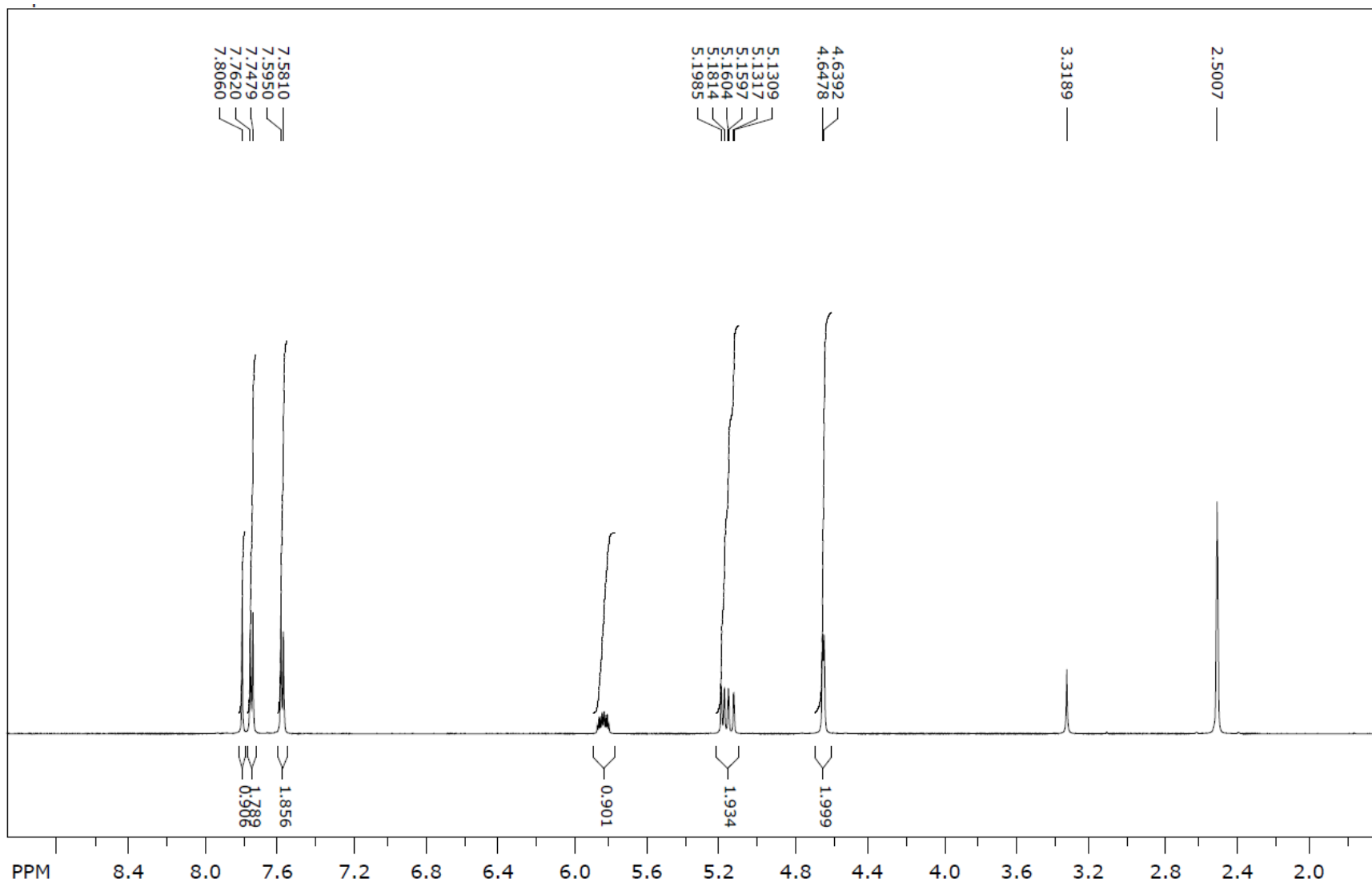
<b>Reaktanti</b>	3-brombenzaldehyd (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	340,26 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> BrNOS <sub>2</sub>
<b>Temperatura tališta</b>	140 – 141 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,93
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	339,24
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,80 (s, 1H, CH), 7,75 (d, <i>J</i> = 8,46 Hz, 2H, arom.), 7,59 (d, <i>J</i> = 8,40 Hz, 2H, arom.), 5,81 – 5,87 (m, 1H, CH), 5,19 (d, <i>J</i> = 10,26 Hz, 1H, CH <sub>2</sub> ), 5,15 (dd, <i>J</i> = 17,22; 0,45 Hz, 1H, CH <sub>2</sub> ), 4,64 (d, <i>J</i> = 5,16 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,79; 166,51; 132,48; 132,36; 131,75; 130,14; 124,66; 123,14; 117, 83; 46,07.

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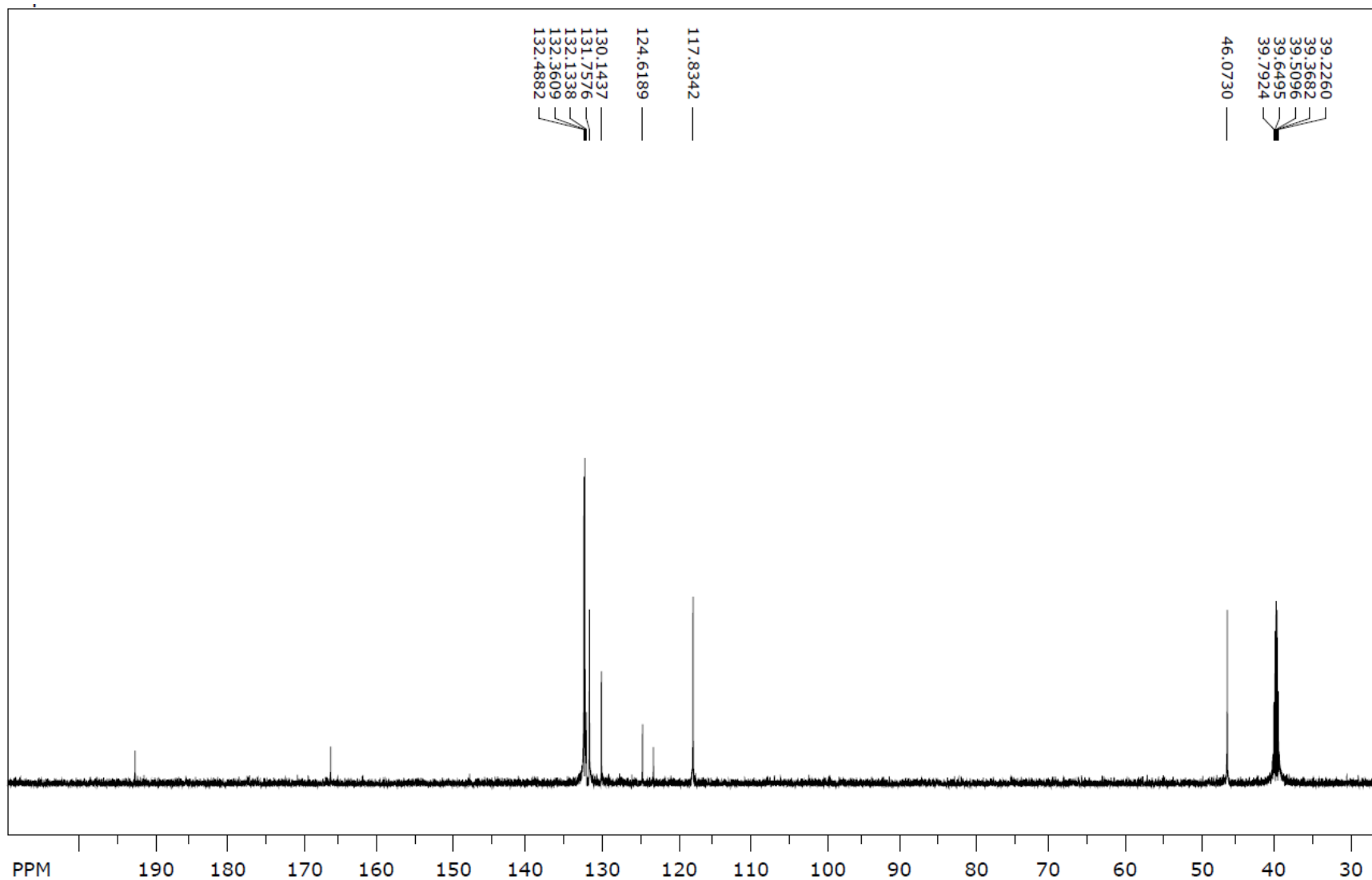
Maseni spektar (6u)



# <sup>1</sup>H NMR spektr (6u)



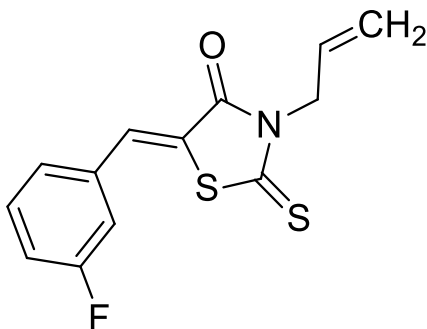
**<sup>13</sup>C NMR spektr (6u)**



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**3-ailil-5-(3-fluorbenzilidene)-2-tioksoiazolidin-4-on (6v)**

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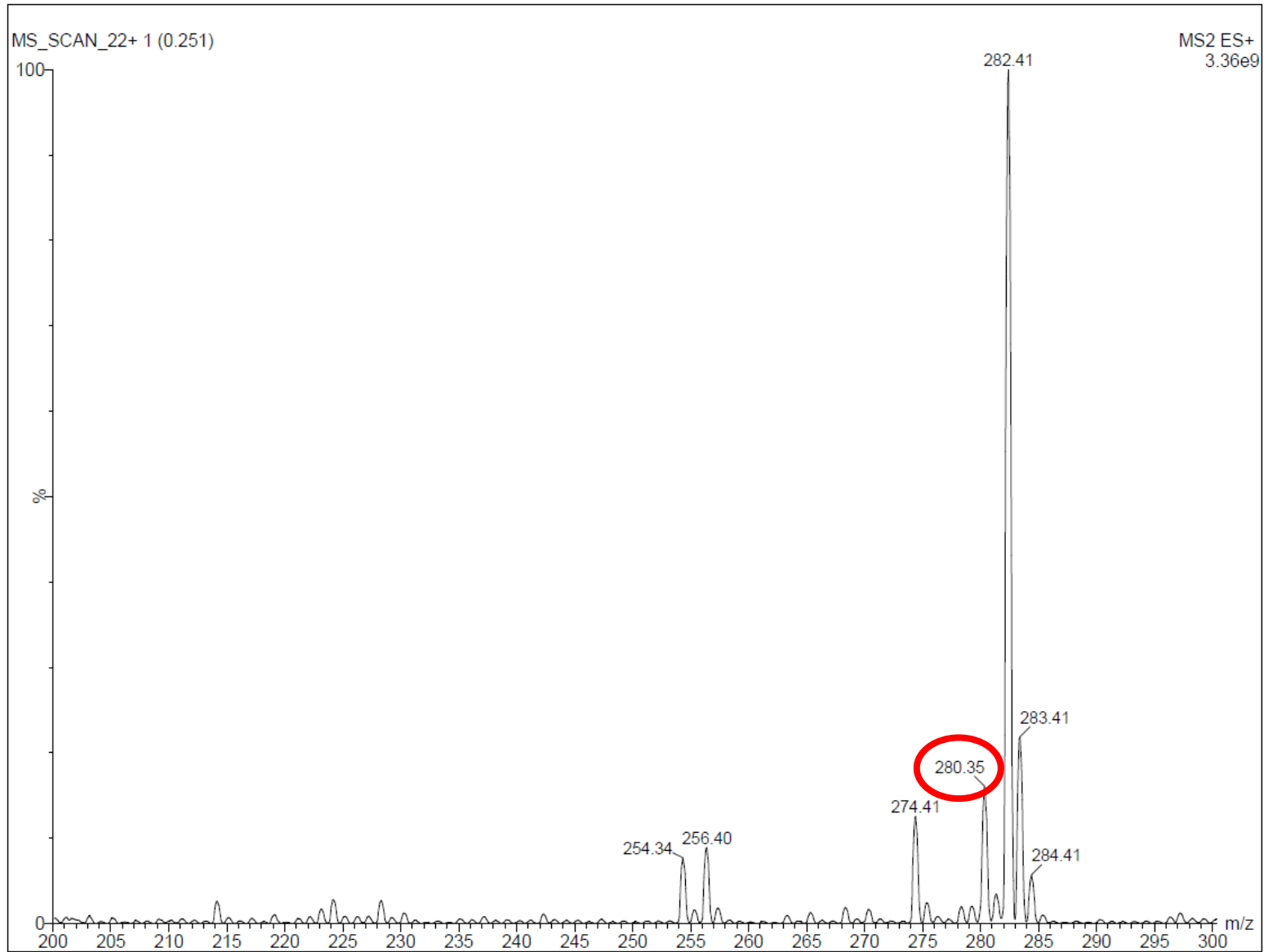
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<b>Reaktanti</b>	3-fluorbenzalhid (2 mmol) i 3-aililrodanin (2 mmol)
<b>Metoda pročiščavanja</b>	Nije pročiščavan
<b>Molekulska masa</b>	279,35 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>10</sub> FNOS <sub>2</sub>
<b>Temperatura tališta</b>	114 – 117 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,91
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	280,35
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,83 (s, 1H, CH), 7,35 -7,65 (m, 4H, arom.), 5,79 – 5,91 (m, 1H, CH), 5,17 (ddd, <i>J</i> = 1,17; 10,62; 17,31 Hz, 2H, CH <sub>2</sub> ), 4,65 (d, <i>J</i> = 5,19 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,36; 166,96; 164,41; 161,16; 135,58; 132,00; 126,58; 118,34; 117,95; 117,65; 55,29; 46,58.

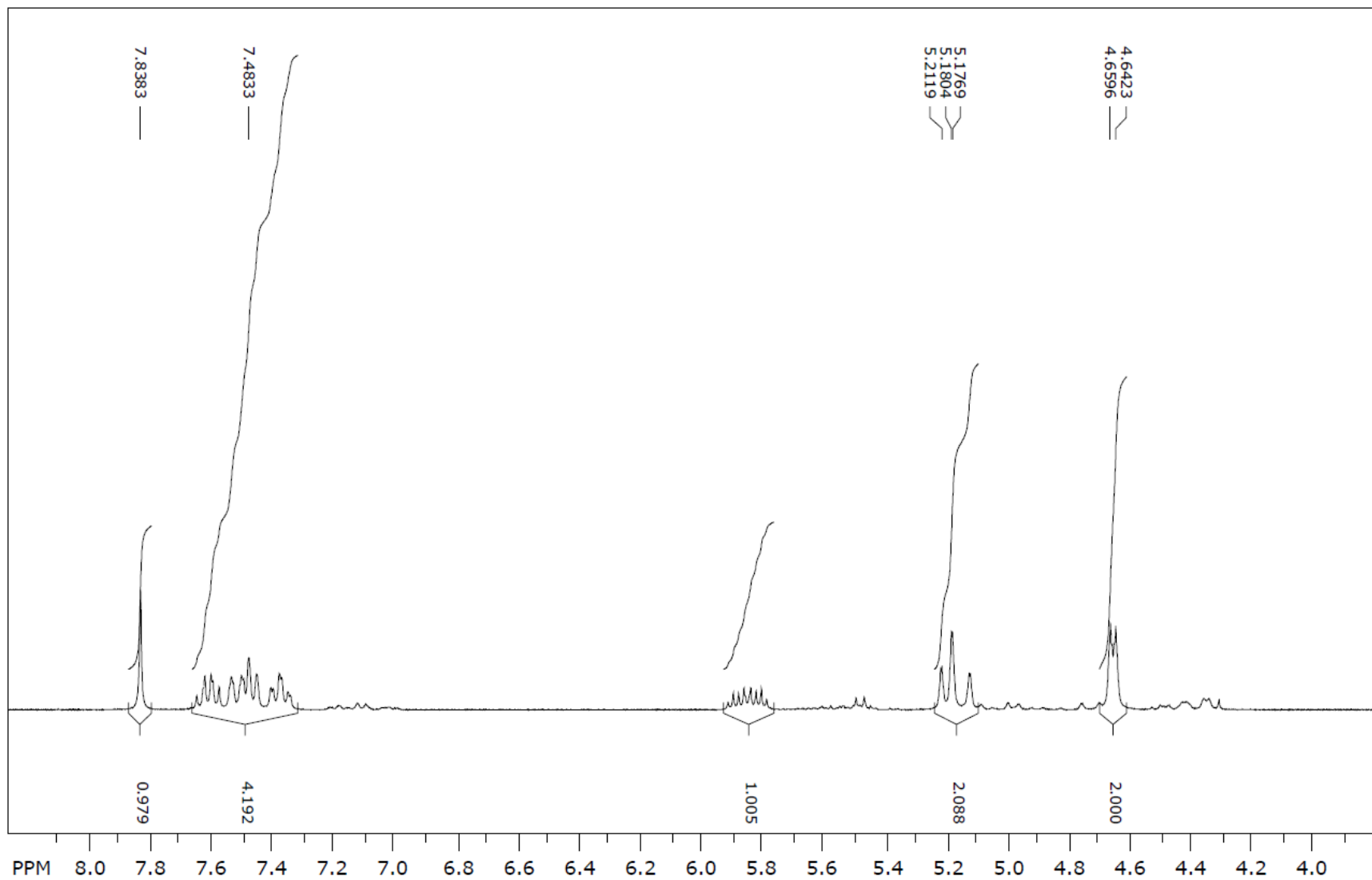
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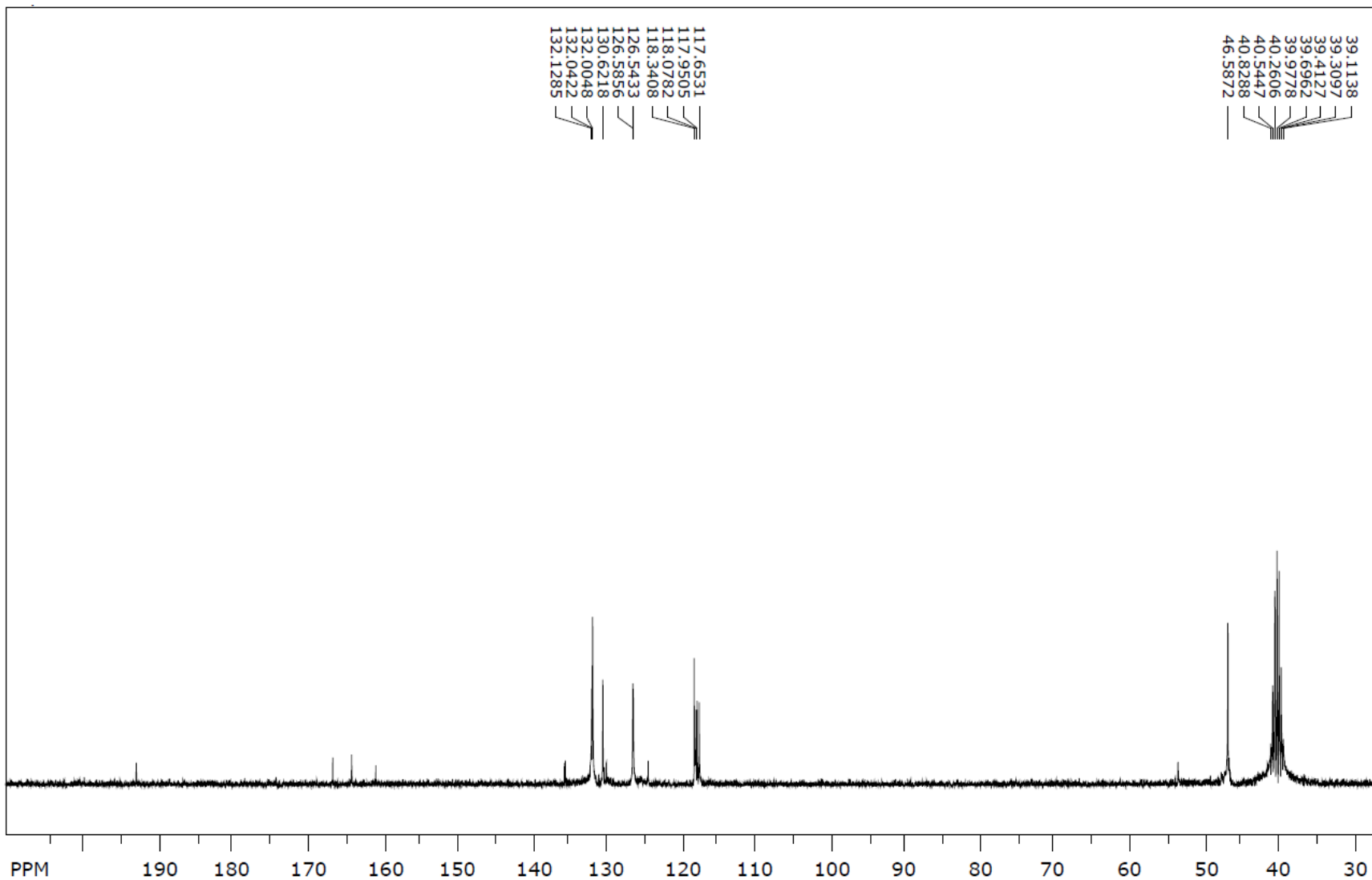
# Maseni spektar (6v)



**<sup>1</sup>H NMR spektr (6v)**



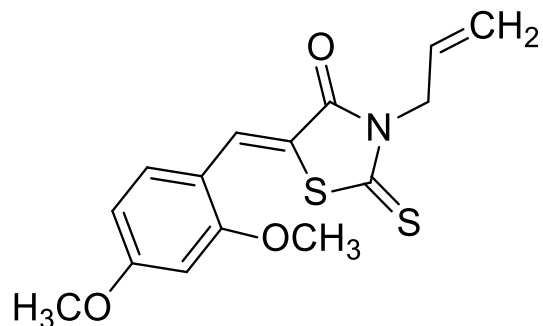
<sup>13</sup>C NMR spektar (6v)



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**3-alil-5-(2,4-dimetoksibenziliden)-2-tioksotiazolidin-4-on (6w)**

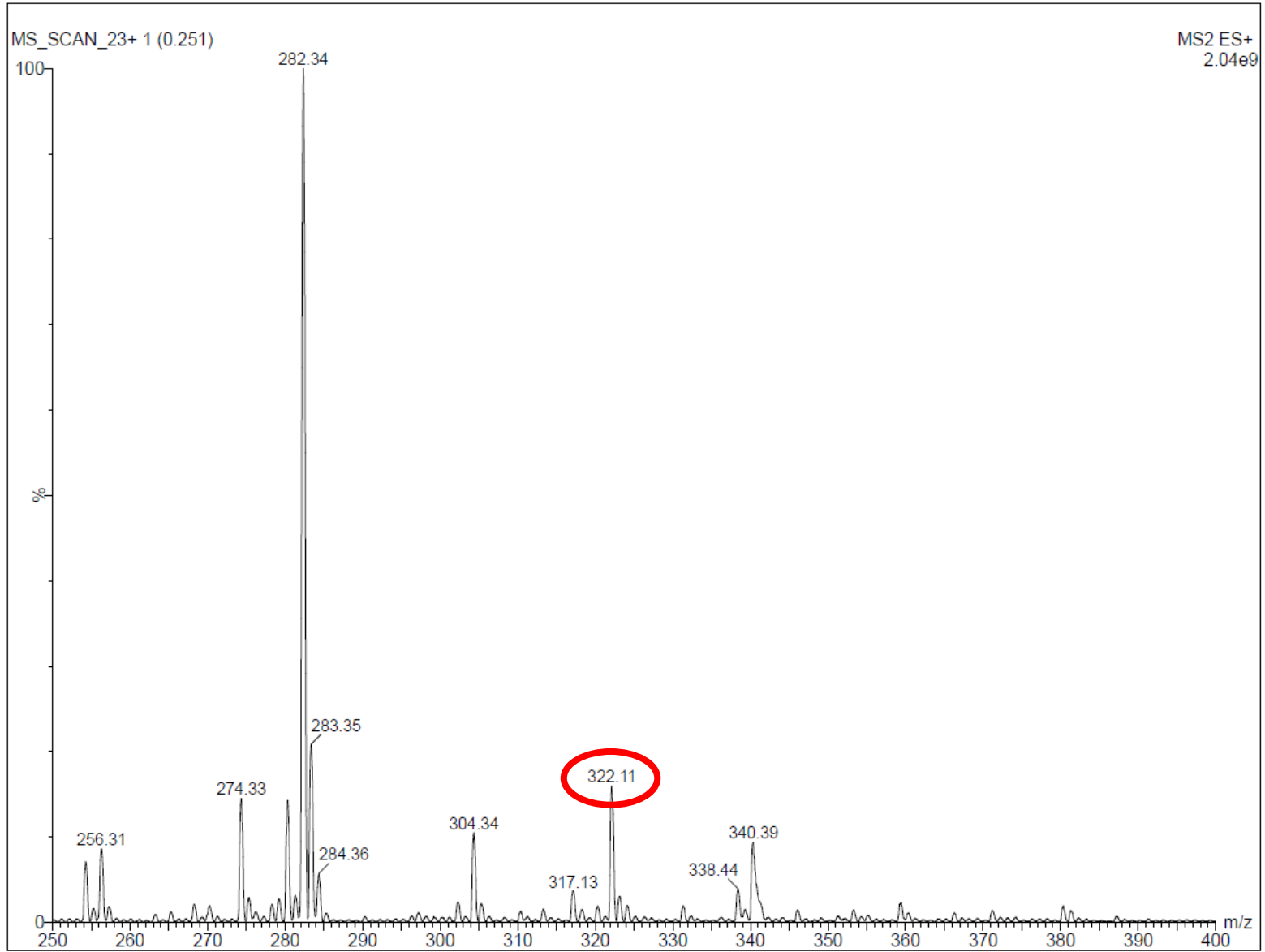
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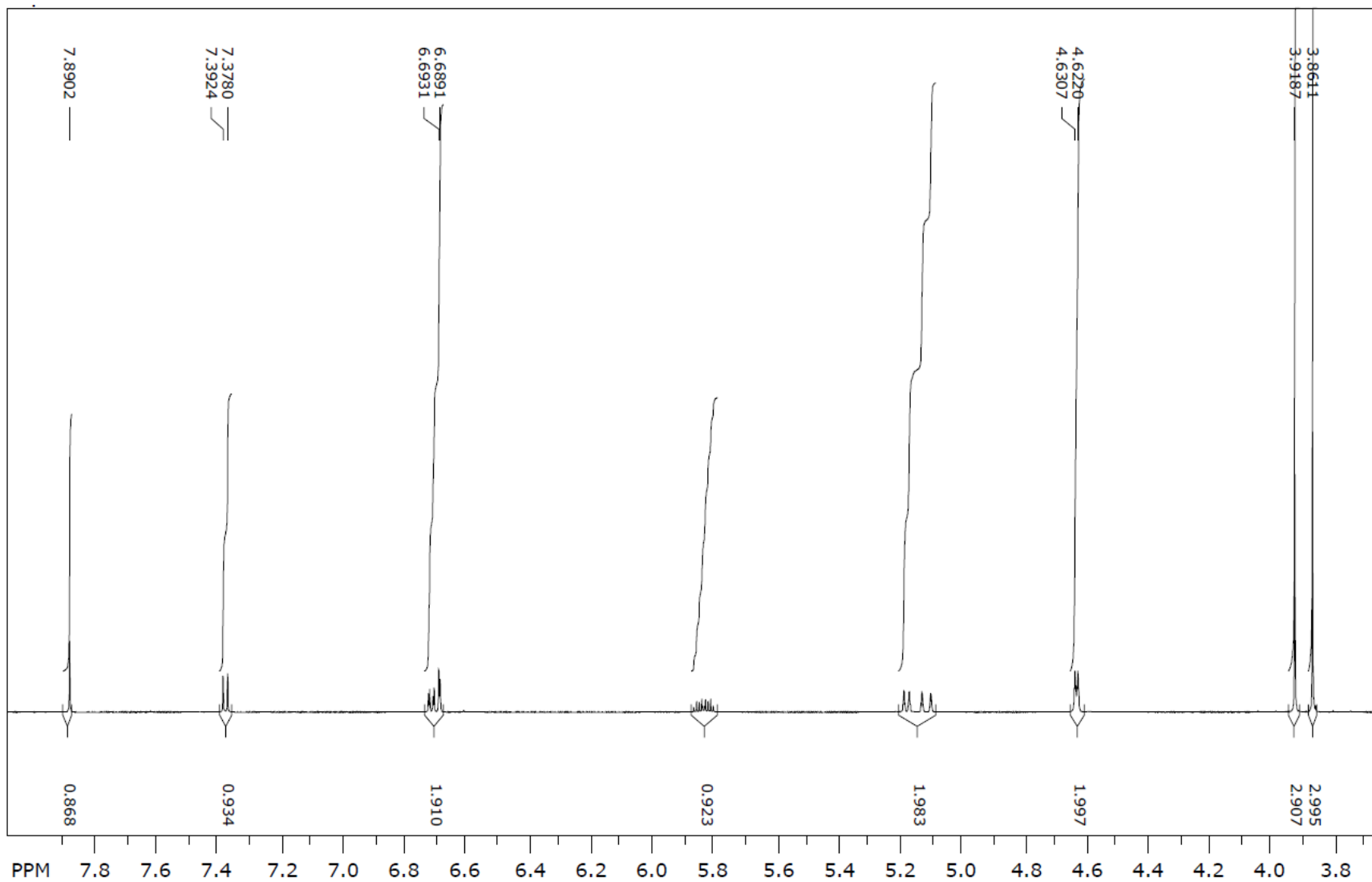
<b>Reaktanti</b>	2,4-dimetoksibenzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	321,41 g/mol
<b>Molekulska formula</b>	C <sub>15</sub> H <sub>15</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	126 – 130 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,90
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	322,11
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,89 (s, 1H, CH), 7,39 (d, <i>J</i> = 8,64 1H, arom.), 6,71 (dd, <i>J</i> = 8,70; 2,37 Hz, 1H, arom.), 6,69 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 5,80 – 5,87 (m, 1H, CH), 5,17 (dd, <i>J</i> = 10,32; 1,32 Hz, 1H, CH <sub>2</sub> ), 5,11 (dd, <i>J</i> = 17,16; 1,35 Hz, 1H, CH <sub>2</sub> ), 4,63 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ), 3,92 (s, 3H, OCH <sub>3</sub> ), 3,86 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,31; 166,76; 160,09; 131,98; 130,31; 128,68; 118,36; 117,68; 114,31; 107,05, 96,62; 55,92; 55,76; 45,92.

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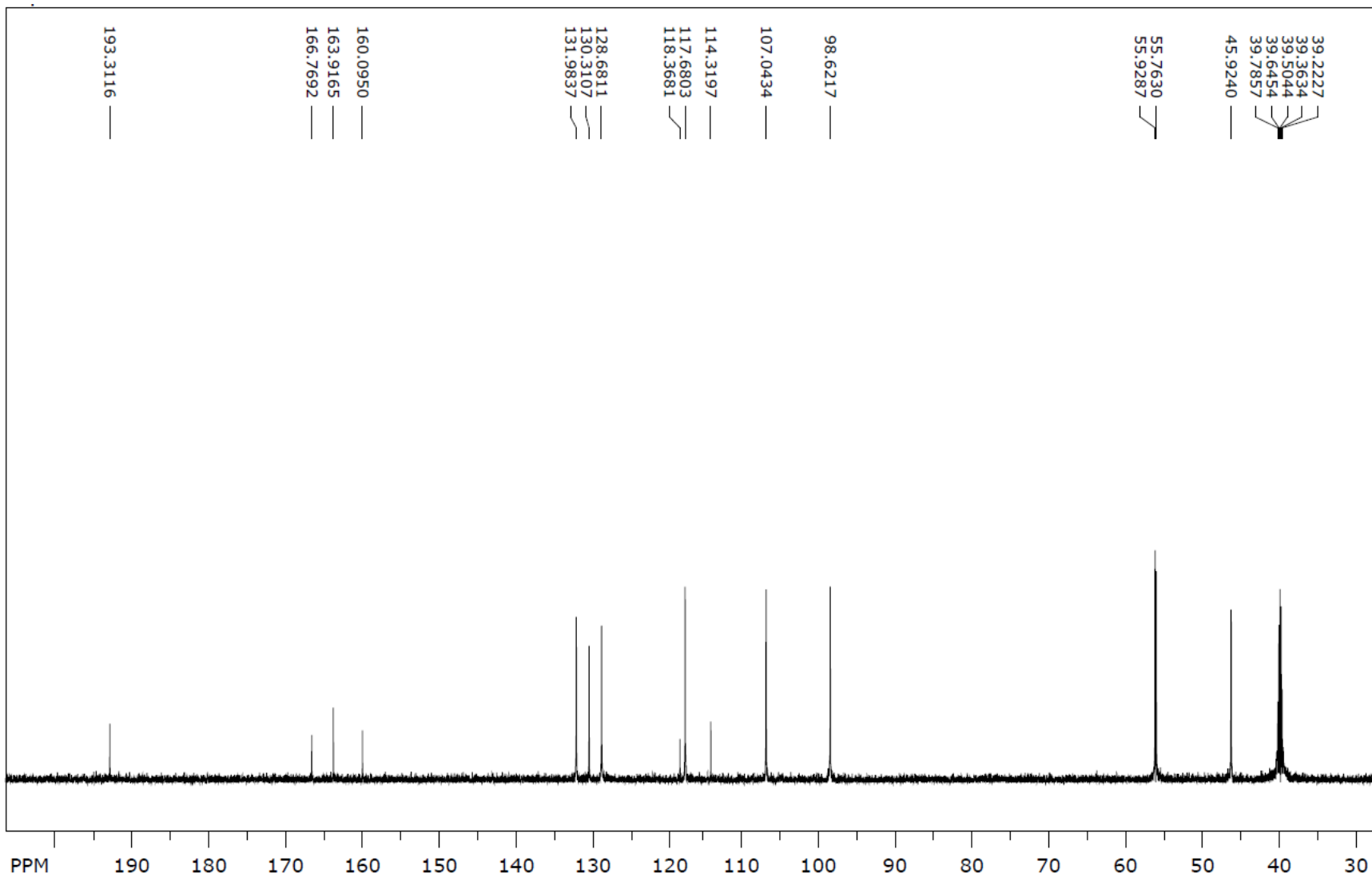
# Maseni spektar (6w)



**<sup>1</sup>H NMR spektr (6w)**



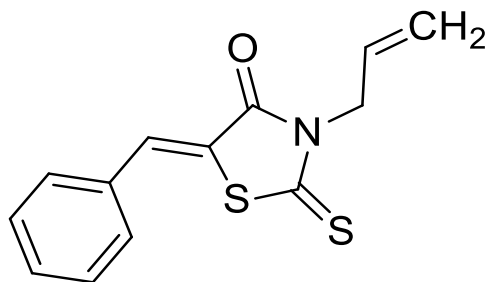
# <sup>13</sup>C NMR spektr (6w)



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**3-alil-5-benziliden-2-tioksotiazolidin-4-on (6x)**

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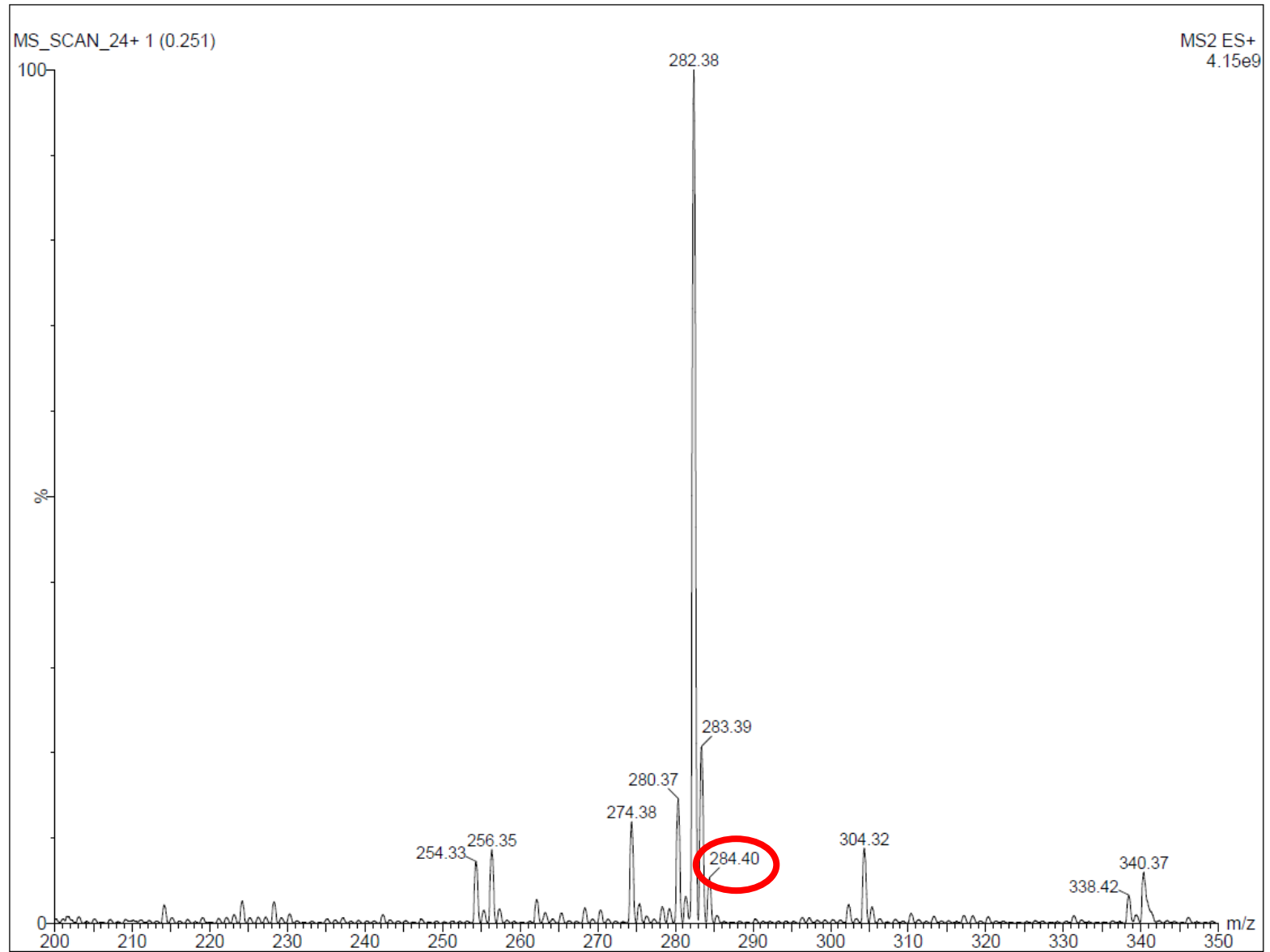


<b>Reaktanti</b>	Benzaldehid (2 mmol) i 3-alilrodanin (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	261,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NOS <sub>2</sub>
<b>Temperatura tališta</b>	139 -143 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,91
<b>LC/MS/MS <i>m/z</i> (M+Na<sup>+</sup>)</b>	284,40
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,83 (s, 1H, CH), 7,65 (d, <i>J</i> = 7,26 Hz, 2H, arom.), 7,51 – 7,58 (m, 3H, arom.), 5,81 – 5,88 (m, 1H, CH), 5,19 (dd, <i>J</i> = 10,38; 1,23 Hz, 1H, CH <sub>2</sub> ), 5,15 (dd, <i>J</i> = 17,22; 1,29 Hz, 1H, CH <sub>2</sub> ), 4,65 (d, <i>J</i> = 5,28 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,10; 166,55; 133,11; 130,98; 130,64; 129,48; 122,30; 117,81; 46,03.

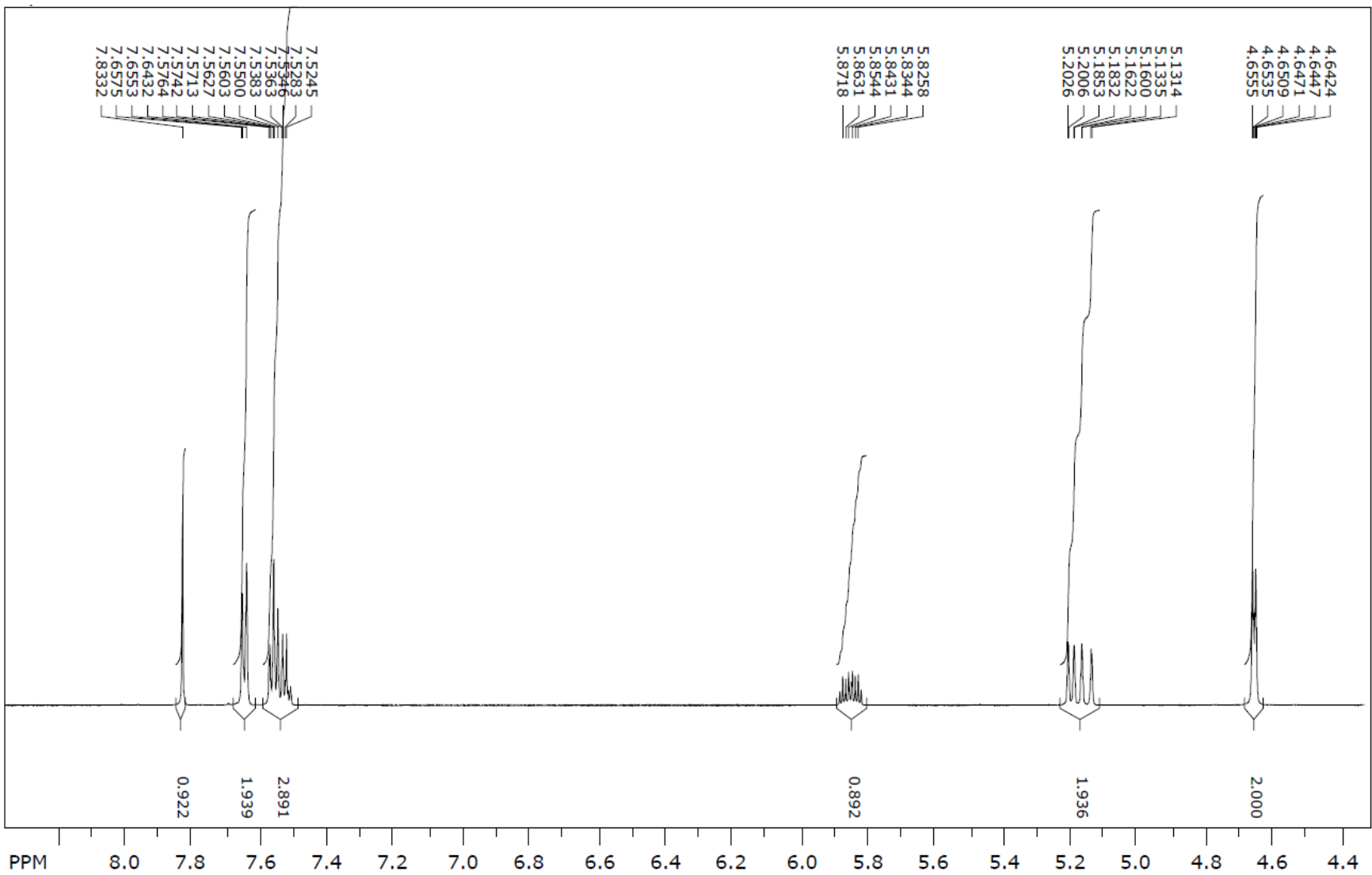
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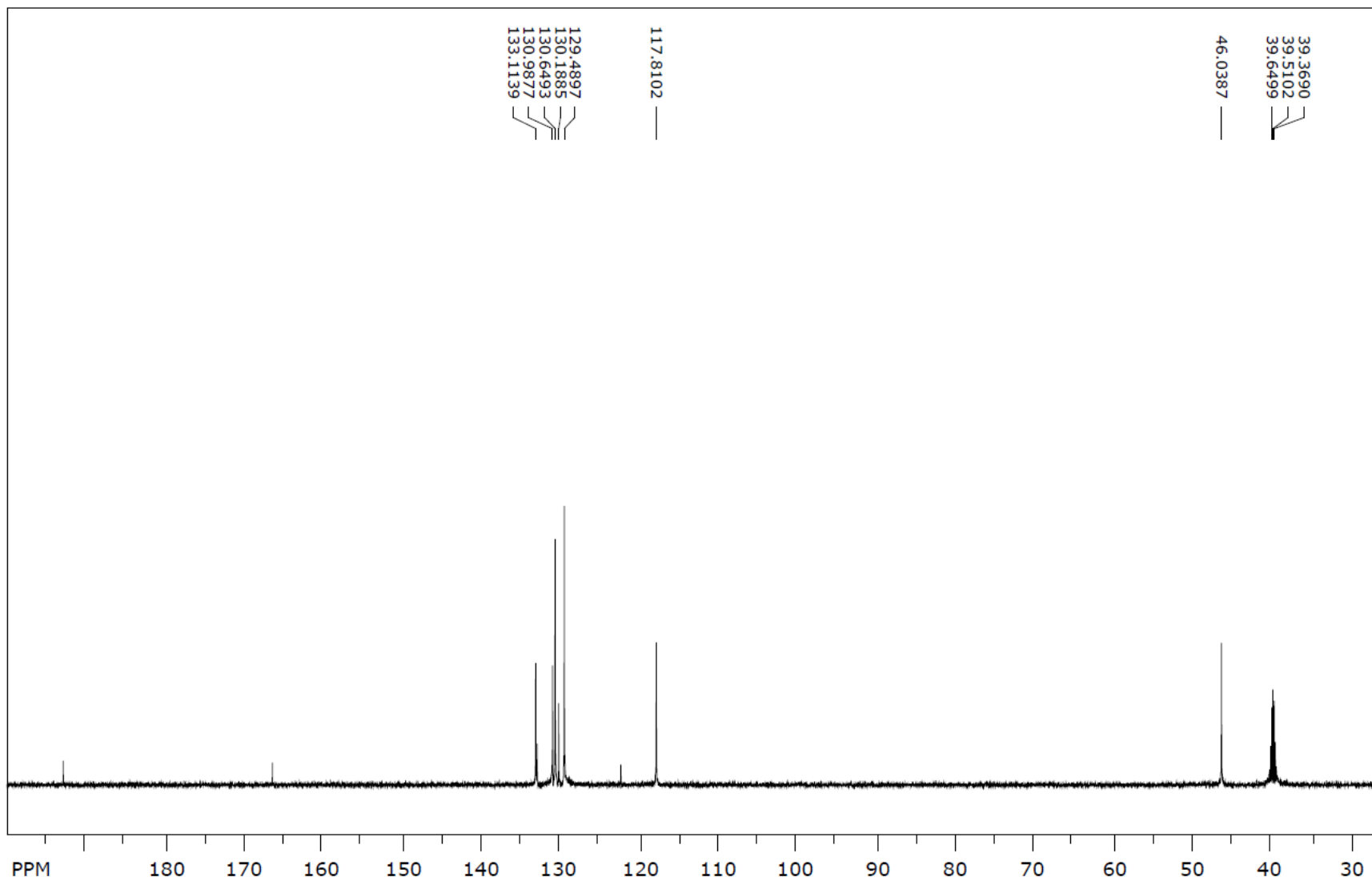
# Maseni spektar (6x)



**<sup>1</sup>H NMR spektr (6x)**



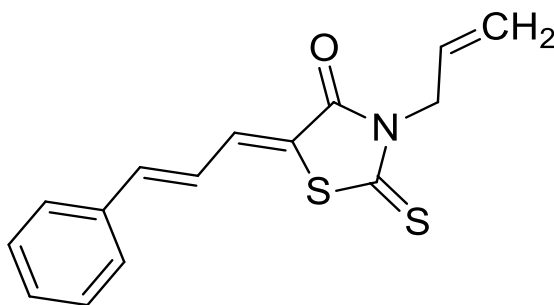
**<sup>13</sup>C NMR spektr (6x)**



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**3-ailil-5-(3-fenilaliliden)-2-tioksotiazolidin-4-on (6y)**

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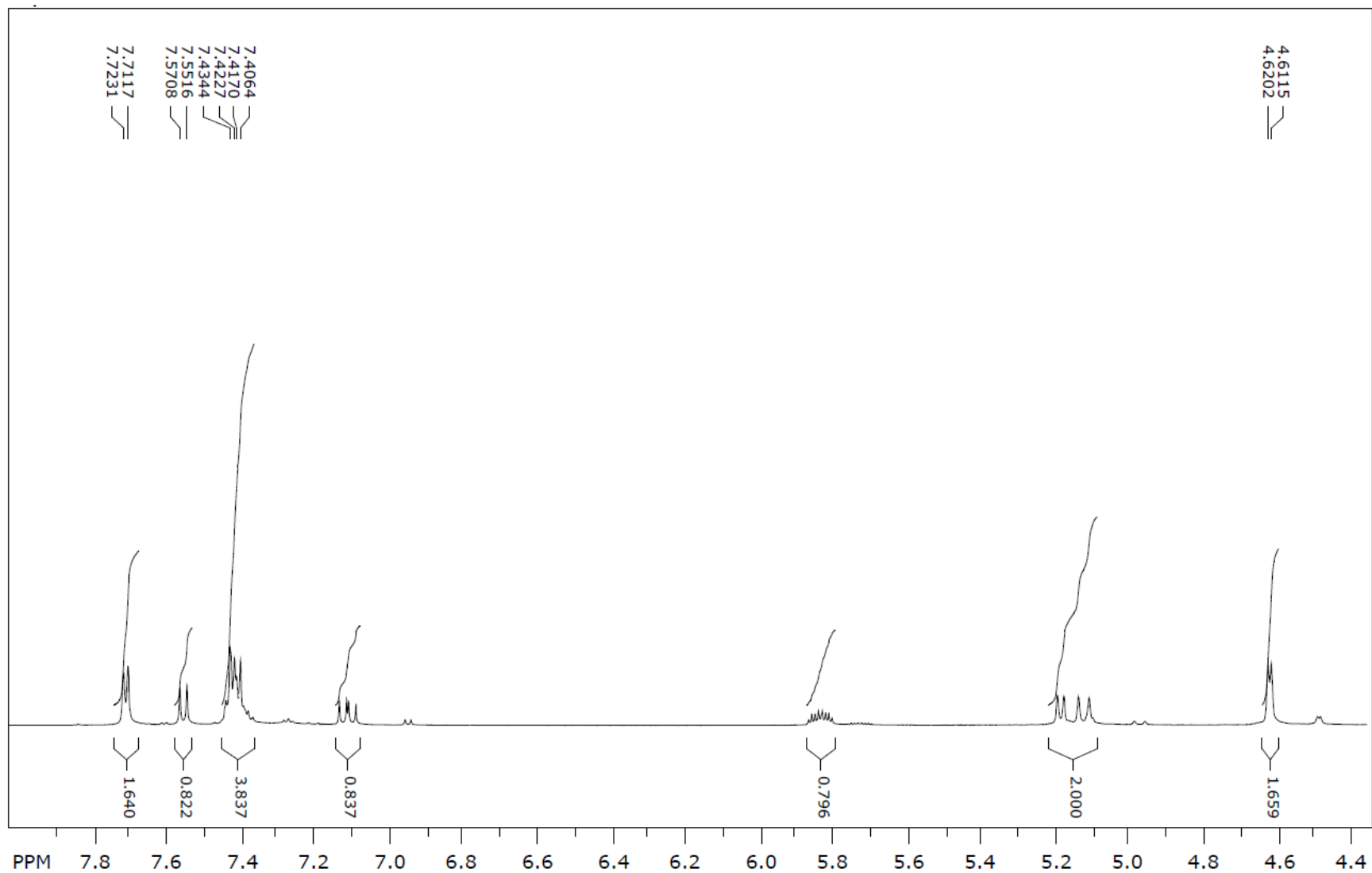


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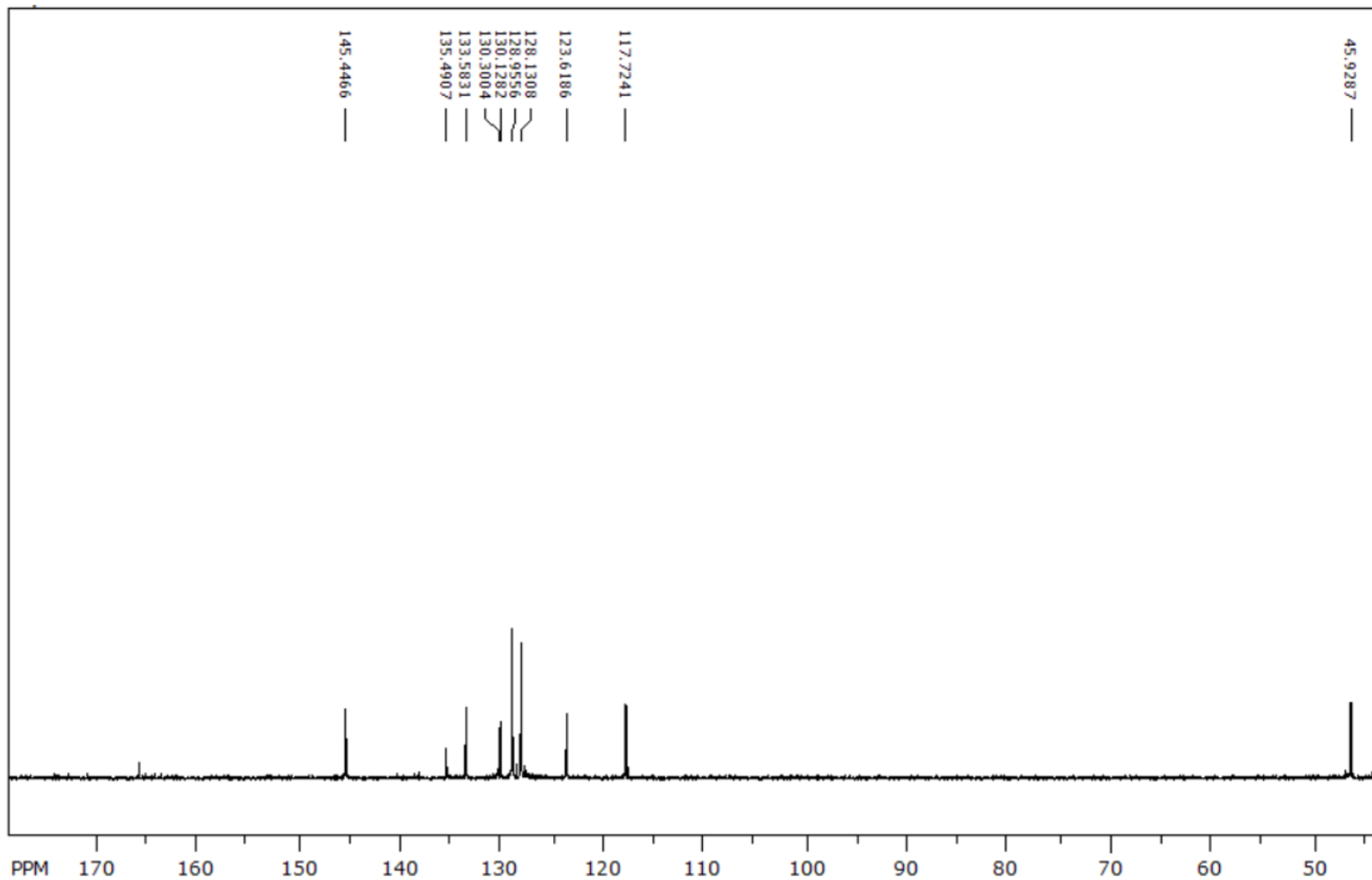
<b>Reaktanti</b>	Cimetaldhid (2 mmol) i 3-aililrodanin (2 mmol)
<b>Metoda pročiščavanja</b>	Nije pročiščavan
<b>Molekulska masa</b>	287,40 g/mol
<b>Molekulska formula</b>	C <sub>15</sub> H <sub>13</sub> NOS <sub>2</sub>
<b>Temperatura tališta</b>	167 -172 °C
<b>Boja kristala</b>	Tamnocrvena
<b>R<sub>f</sub></b>	0,91
<b>LC/MS/MS <i>m/z</i> (M+)</b>	288,05 (teor.)
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) 7,71 (d, <i>J</i> = 6,84 Hz, 2H, CH), 7,56 (d, <i>J</i> = 11,52 Hz, 1H, CH), 7,37 – 7,45 (m, 4H, arom.), 7,12 (q, <i>J</i> = 11,52; 3,54; 11,64 Hz, 1H, arom.), 5,80 – 5,86 (m, 1H, CH), 5,18 (dd, <i>J</i> = 10,32; 1,02 Hz, 1H, CH <sub>2</sub> ), 5,12 (dd, <i>J</i> = 17,22; 1,02 Hz, 1H, CH <sub>2</sub> ), 4,62 (d, <i>J</i> = 5,22 Hz, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,69; 165,92; 145,44; 135,49; 133,58; 130,30; 130,12; 129,03; 128,13; 123,61; 117,72; 45,92.

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# <sup>1</sup>H NMR spektr (6y)



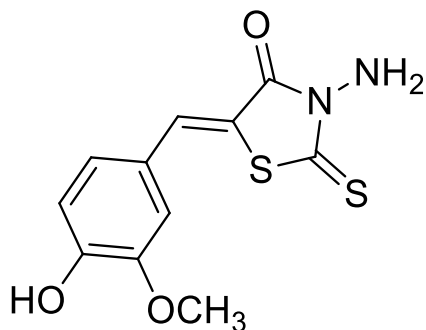
<sup>13</sup>C NMR spektr (6y)



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**3-amino-5-(4-hidroksi-3-metoksibenziliden)-2-tioksotiazolidin-4-on  
(7a)**

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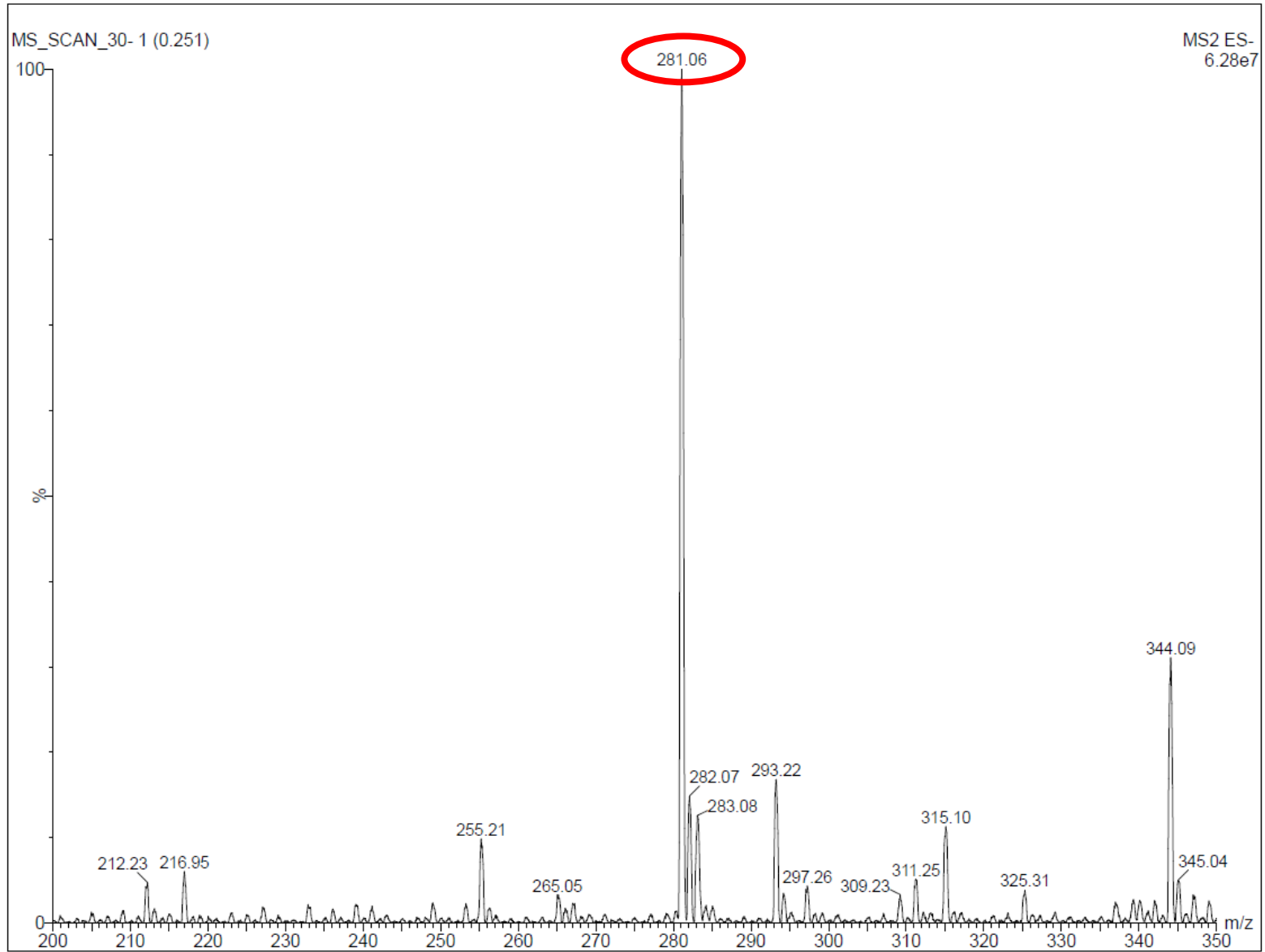


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<b>Reaktanti</b>	3-metoksi-4-hidroksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran heksan : etanol (4 : 1), ispran heksanom
<b>Molekulska masa</b>	282,34 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	182 – 185 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,67
<b>LC/MS/MS <i>m/z</i> (M-)</b>	281,06
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,17 (s, 1H, OH), 7,78 (s, 1H, CH), 7,22 (d, <i>J</i> = 2,04 Hz, 1H, arom.), 7,15 (dd, <i>J</i> = 8,31; 2,03 Hz, 1H, arom.), 6,96 (d, <i>J</i> = 8,25 Hz, 1H, arom.), 5,94 (s, 2H, NH <sub>2</sub> ), 3,85 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,51; 164,23; 150,80; 148,62; 135,10; 125,92; 124,93; 116,89; 115,15; 56,13.

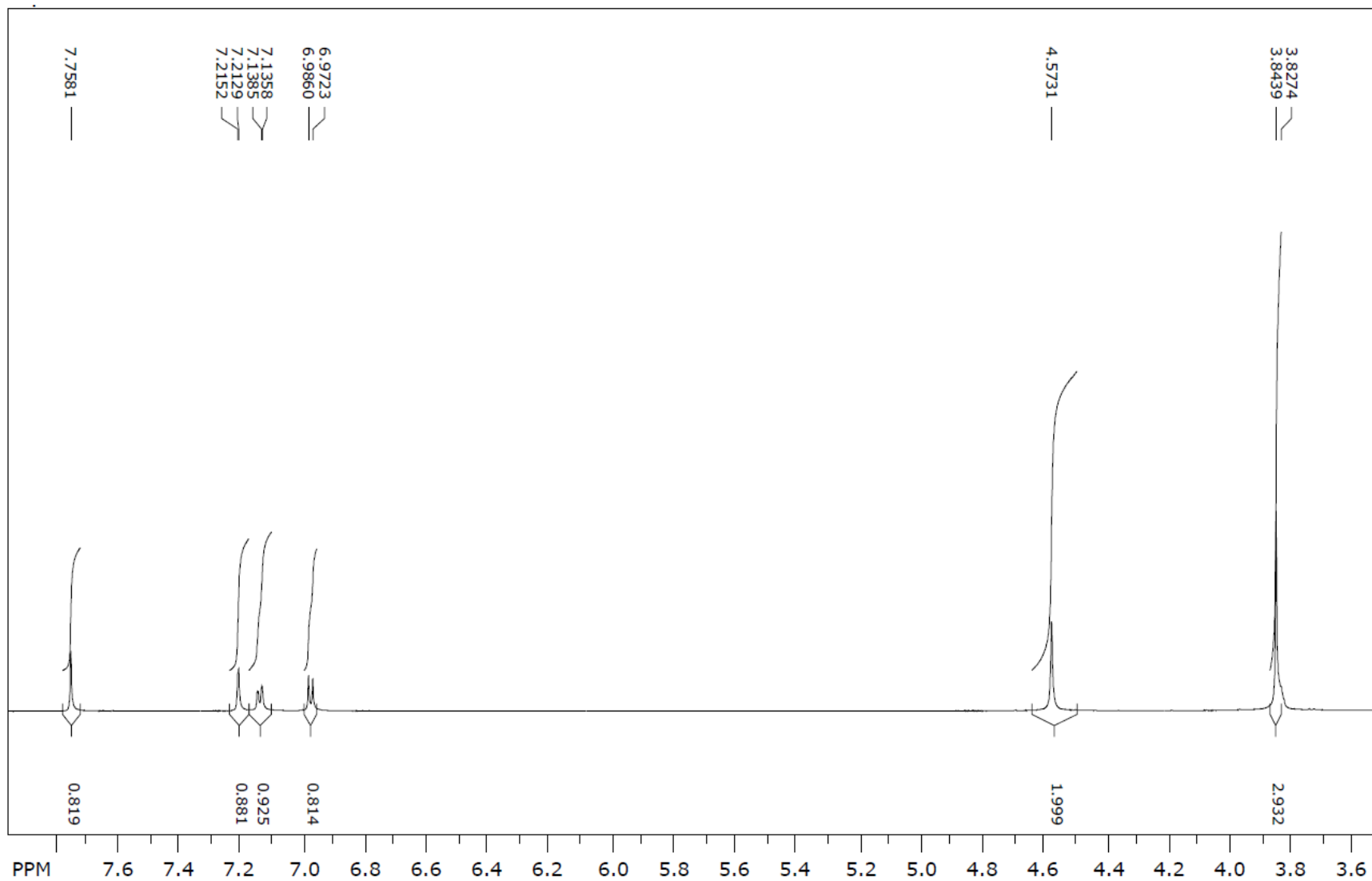
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# Maseni spektar (7a)

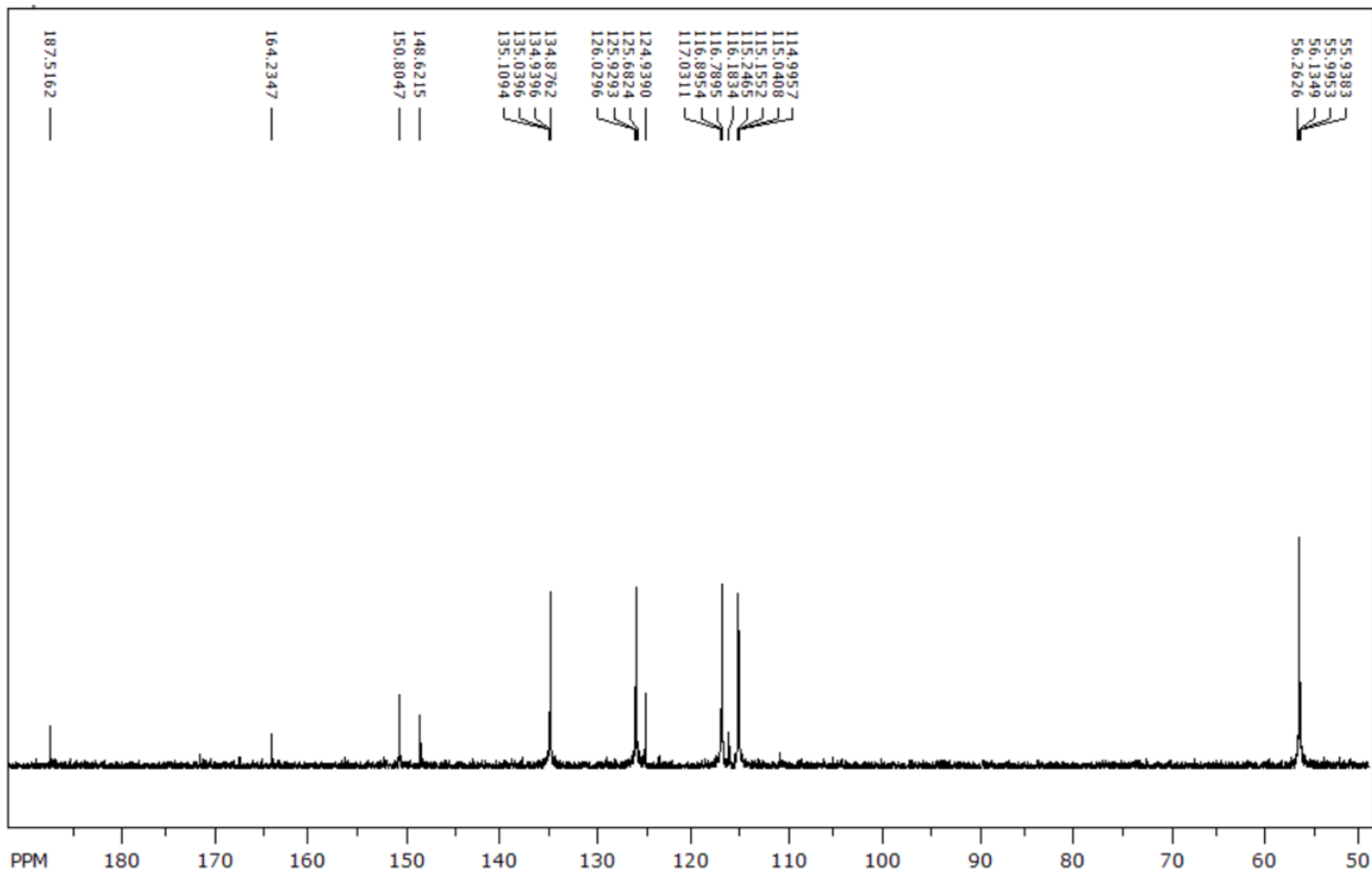




**<sup>1</sup>H NMR spektr (7a)**



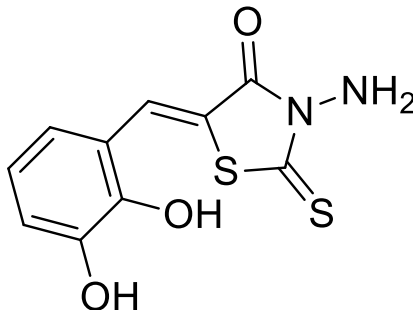
<sup>13</sup>C NMR spektar (7a)



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**3-amino-5-(2,3-dihidroksibenziliden)-2-tioksotiazolidin-4-on (7b)**

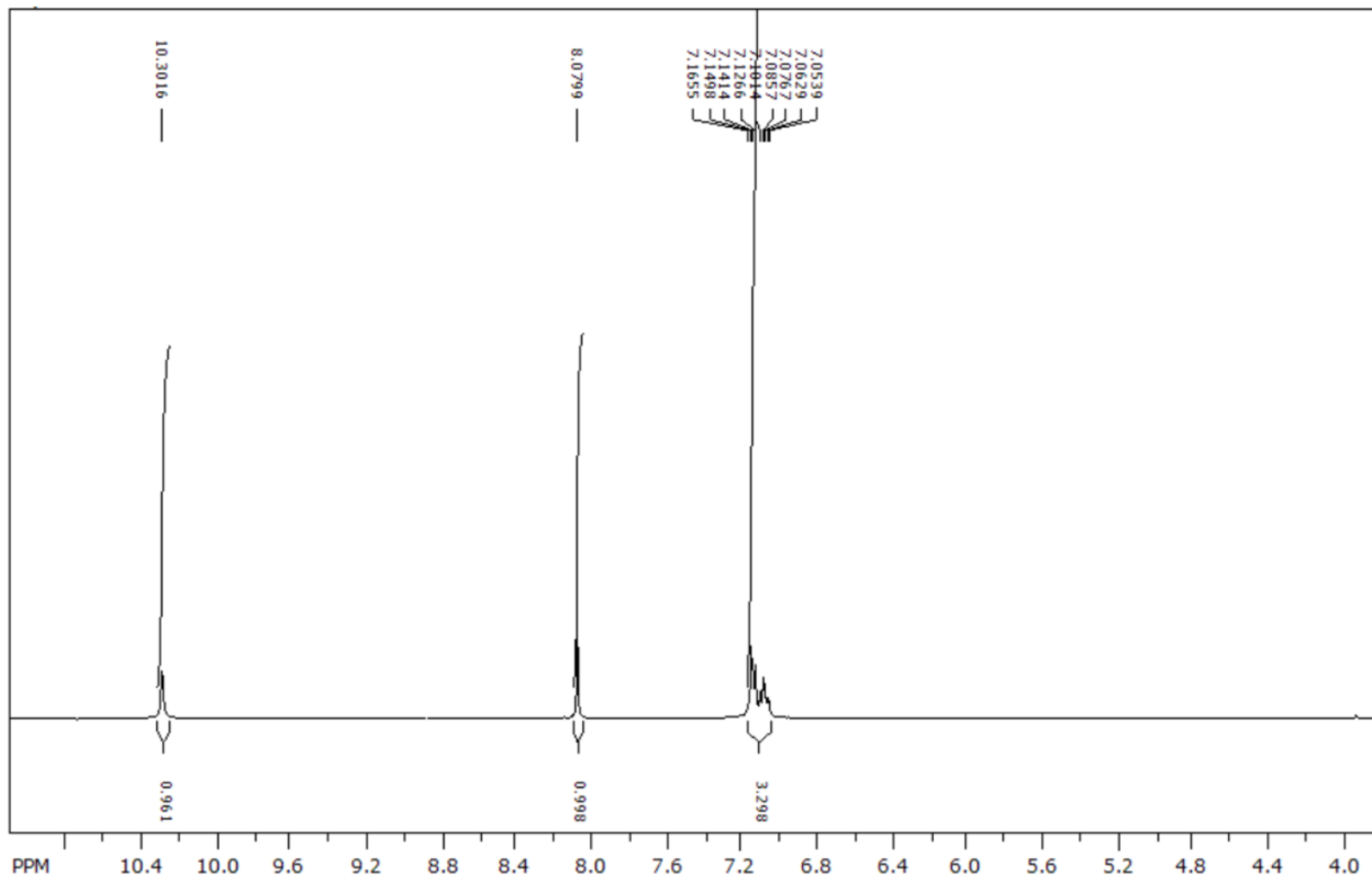
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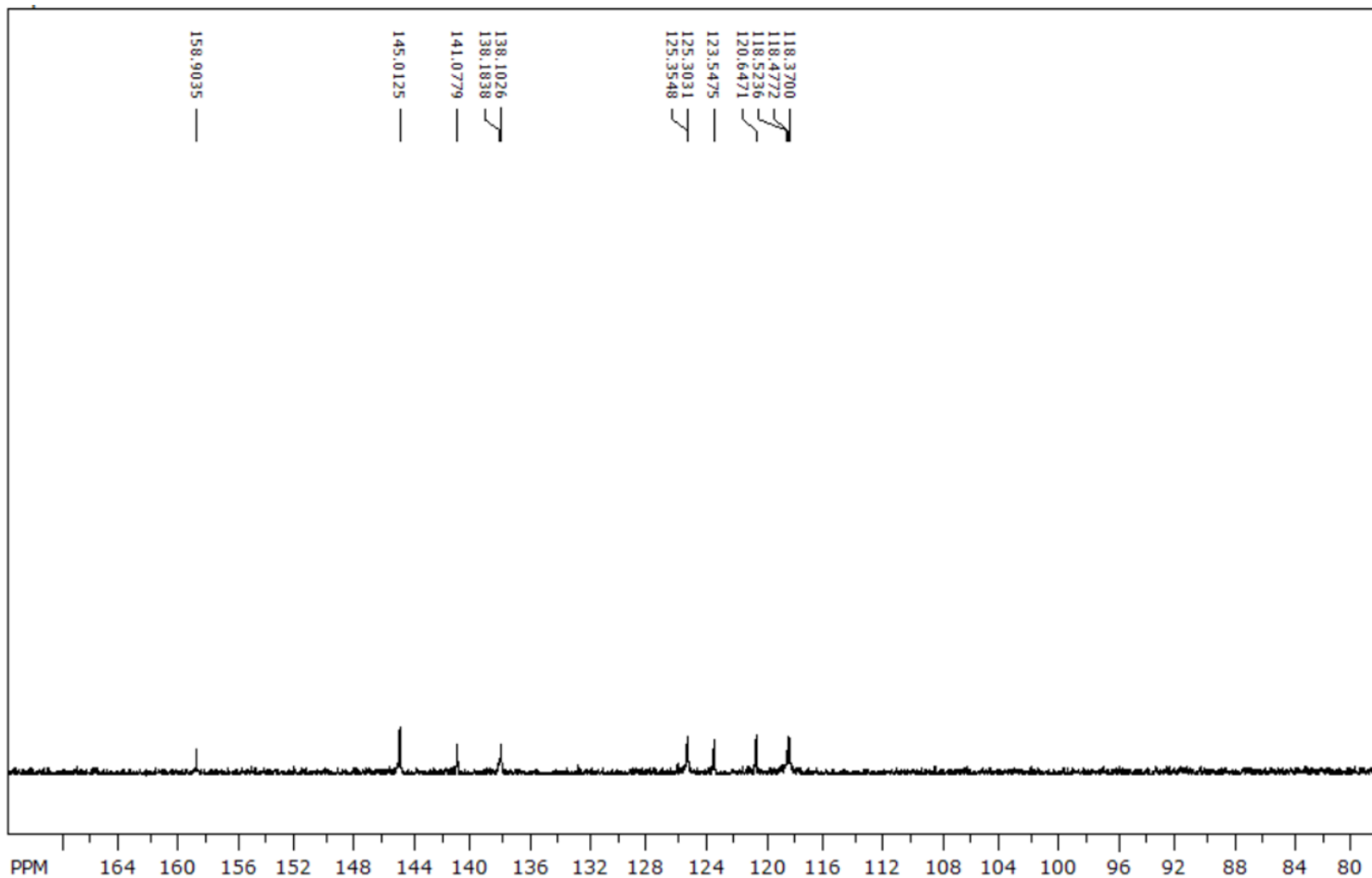
<b>Reaktanti</b>	2,3-dihidroksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran heksan : etanol (4 : 1), ispran heksanom
<b>Molekulska masa</b>	268,31 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	296 – 299 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,61
<b>LC/MS/MS m/z (M-)</b>	268,00 (teor.)
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,30 (s, 1H, OH), 8,07 (s, 1H, CH), 7,05 – 7,17 (m, 3H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 158,90; 145,01; 141,07; 138,09; 125,35; 125,54; 120,64; 118,46; 118,37.

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<sup>1</sup>H NMR spektr (7b)



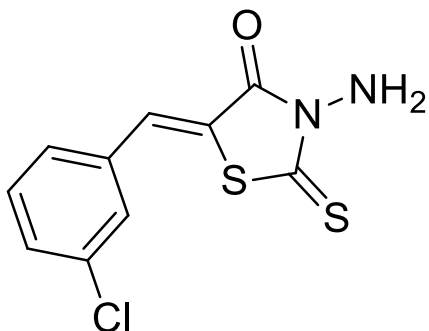
<sup>13</sup>C NMR spektr (7b)



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**3-amino-5-(3-klorbenziliden)-2-tioksotiazolidin-4-on (7c)**

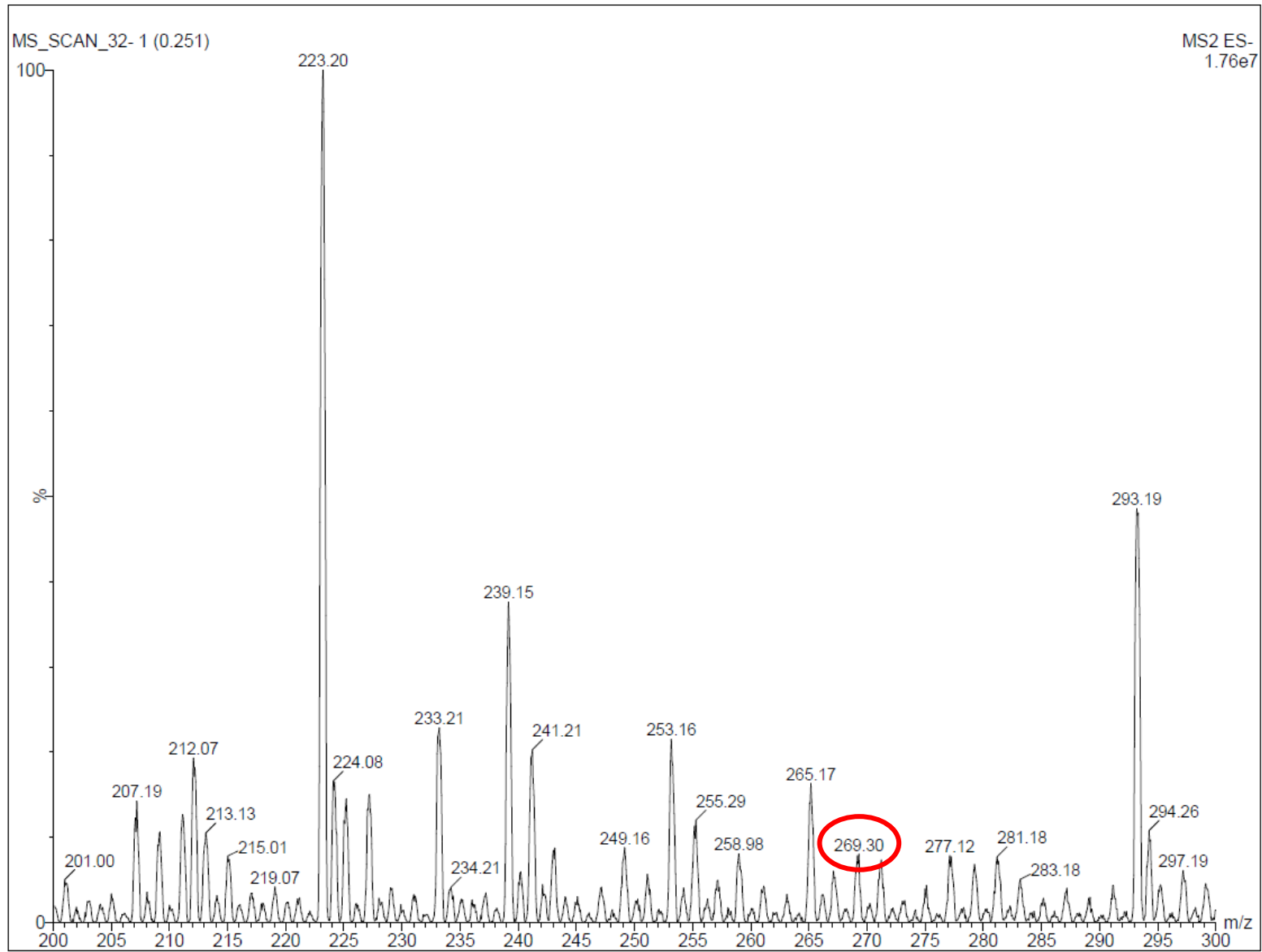
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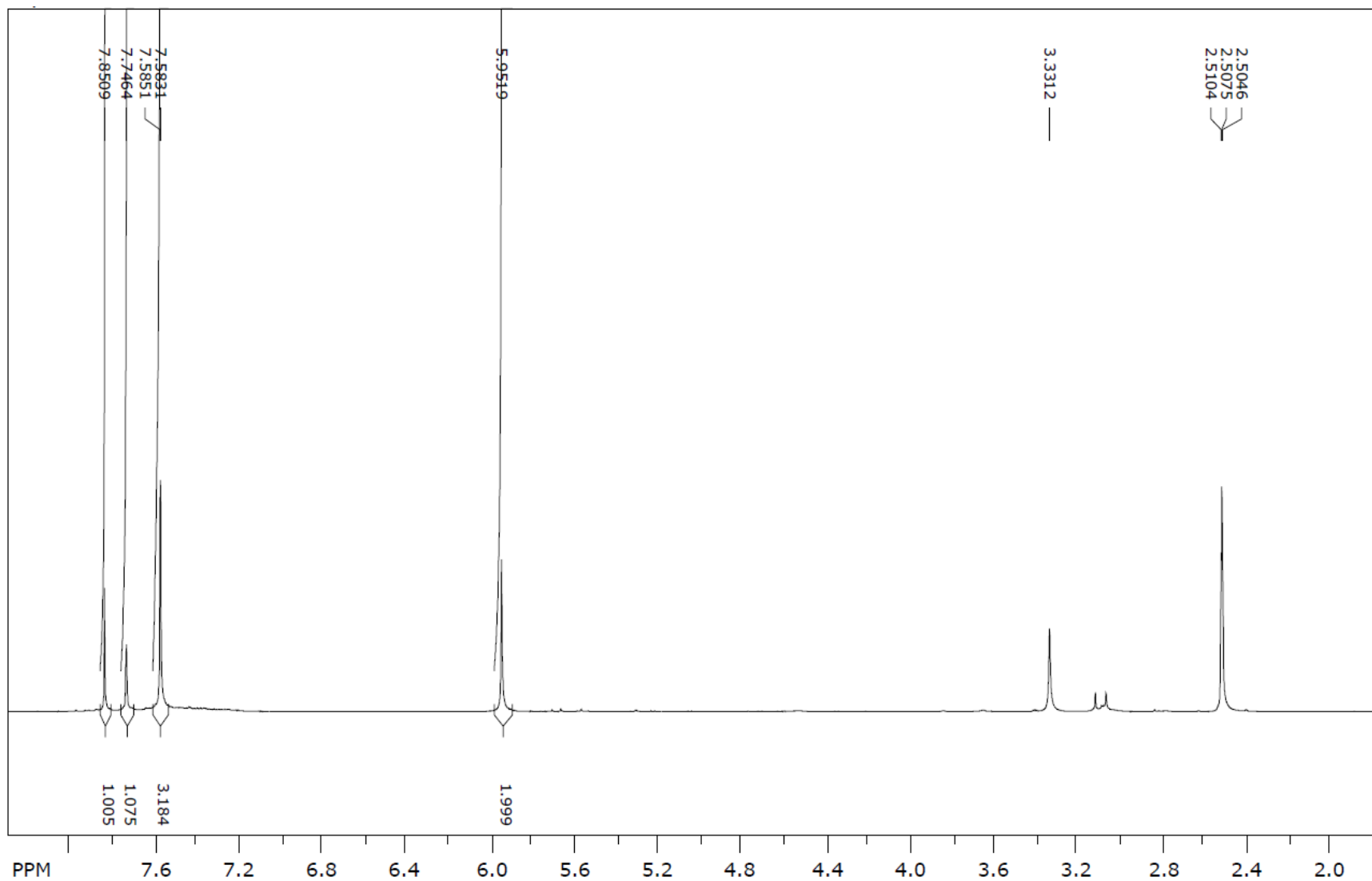
<b>Reaktanti</b>	3-klorbenzaldehyd (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran heksan : etanol (4 : 1), ispran heksanom
<b>Molekulska masa</b>	270,76 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> ClN <sub>2</sub> OS <sub>2</sub>
<b>Temperatura tališta</b>	177 °C
<b>Boja kristala</b>	Žuto-smeđa
<b>R<sub>f</sub></b>	0,84; 0,78
<b>LC/MS/MS m/z (M-)</b>	269,30
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,85 (s, 1H, CH), 7,74 (s, 1H, arom.), 7,58 (s, 3H, arom.), 5,95 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,51; 166,55; 135,04; 134,06; 131,50; 131,28; 130,50; 130,46; 128,32; 122,08.

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### Maseni spektar (7c)

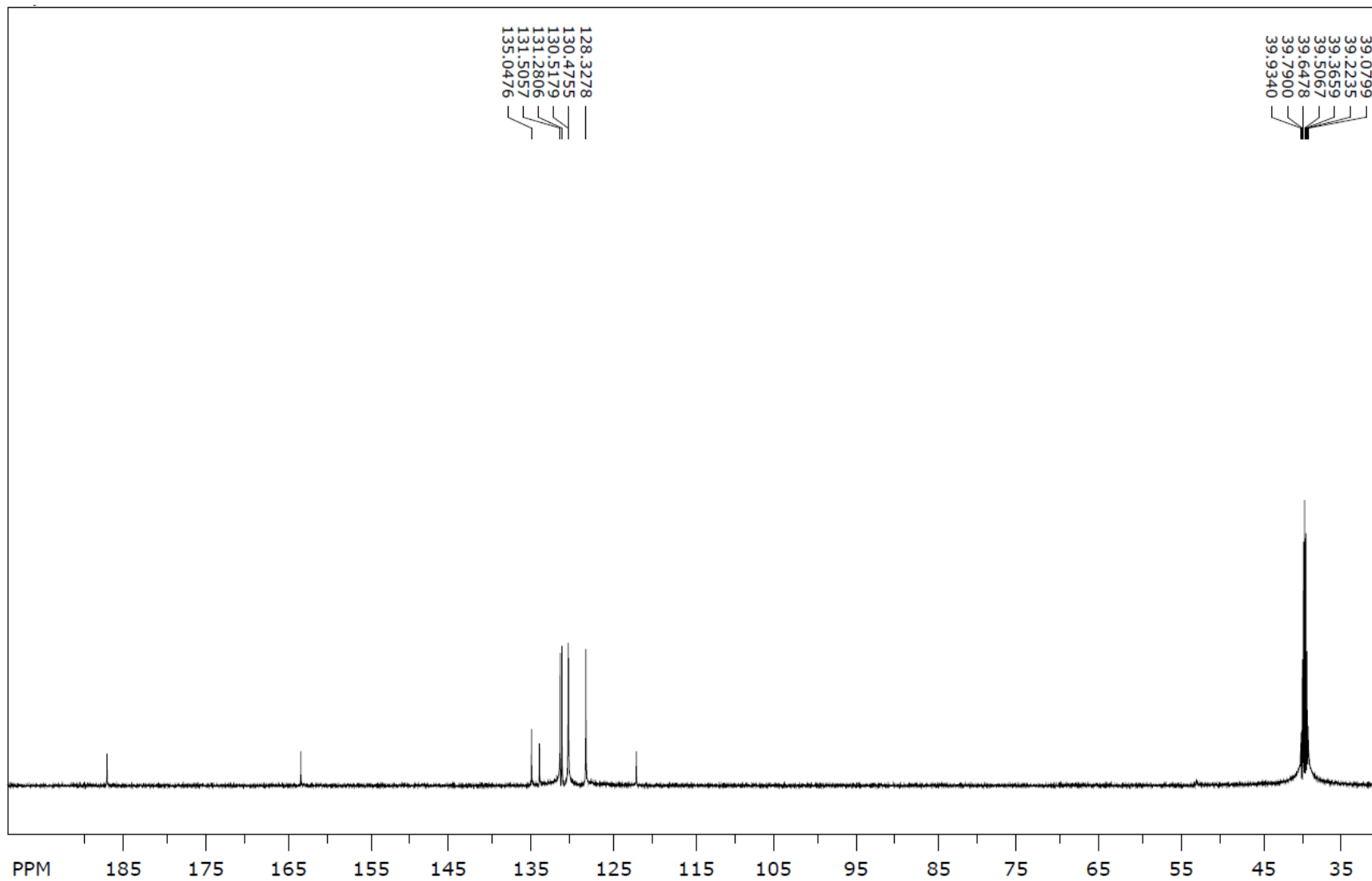


**<sup>1</sup>H NMR spektr (7c)**





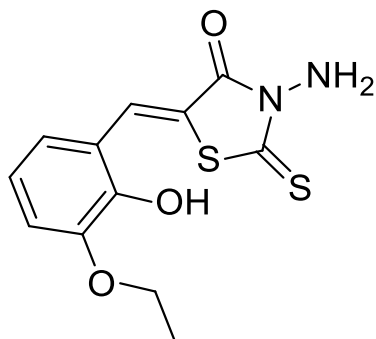
**<sup>13</sup>C NMR spektr (7c)**



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**3-amino-5-(3-etoksi-2-hidroksibenziliden)-2-tioksotiazolidin-4-on (7d)**

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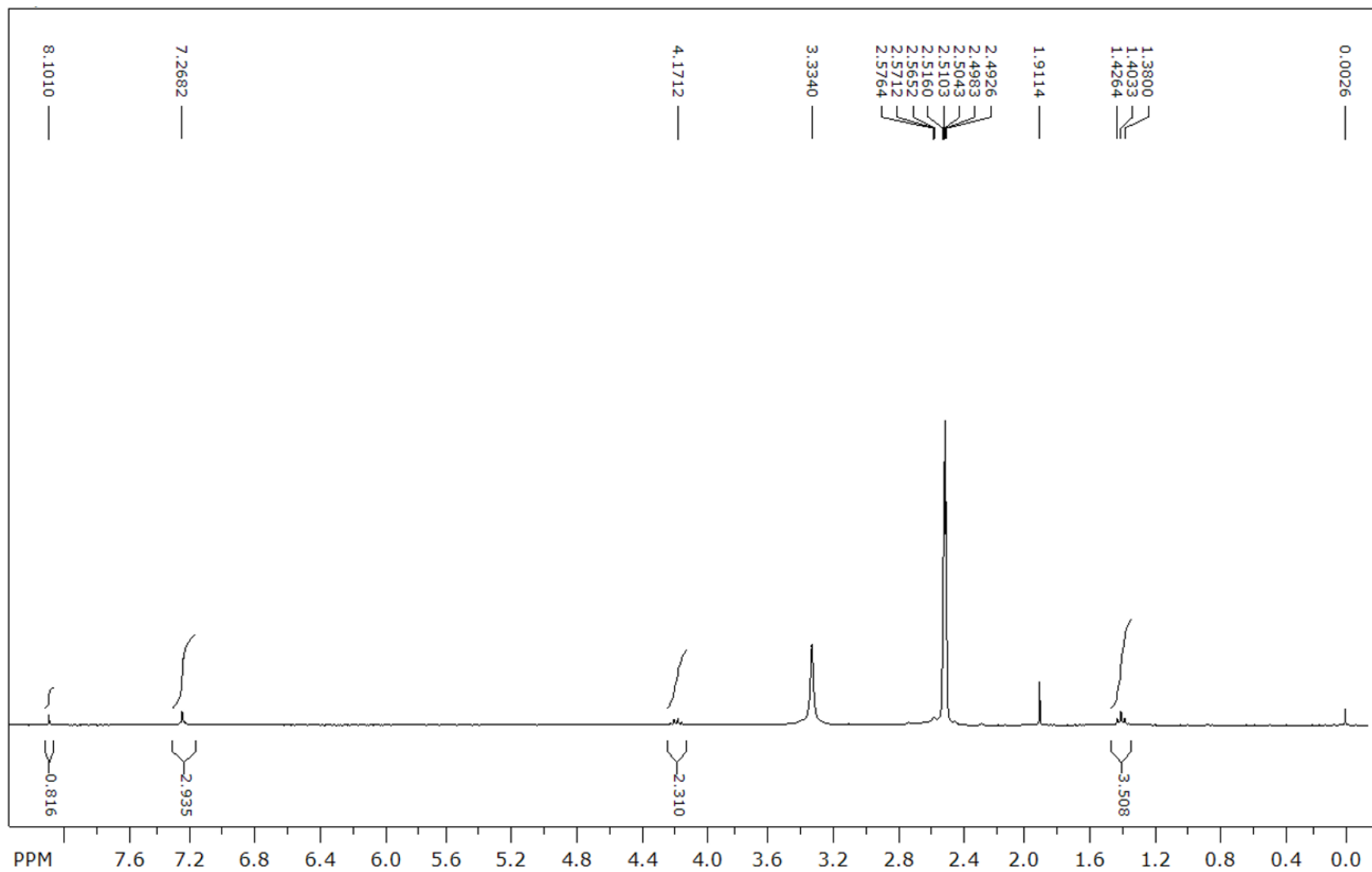


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<b>Reaktanti</b>	3-etoksisalicilaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz octene kiseline
<b>Molekulska masa</b>	296,37 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	229 – 233 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,81
<b>LC/MS/MS m/z (M-)</b>	296,03 (teor.)
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,10 (s, 1H, CH), 7,27 (t, <i>J</i> = 3,78; 4,44 Hz, 3H, arom.), 4,17 (q, <i>J</i> = 6,99 Hz, 2H, <u>CH</u> <sub>2</sub> CH <sub>3</sub> ), 1,40 (t, <i>J</i> = 6,96 Hz, 3H, CH <sub>2</sub> <u>CH</u> <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	-

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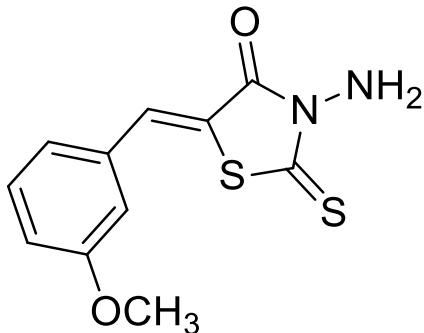
<sup>1</sup>H NMR spektr (7d)



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**3-amino-5-(3-metoksibenziliden)-2-tioksotiazolidin-4-on (7e)**

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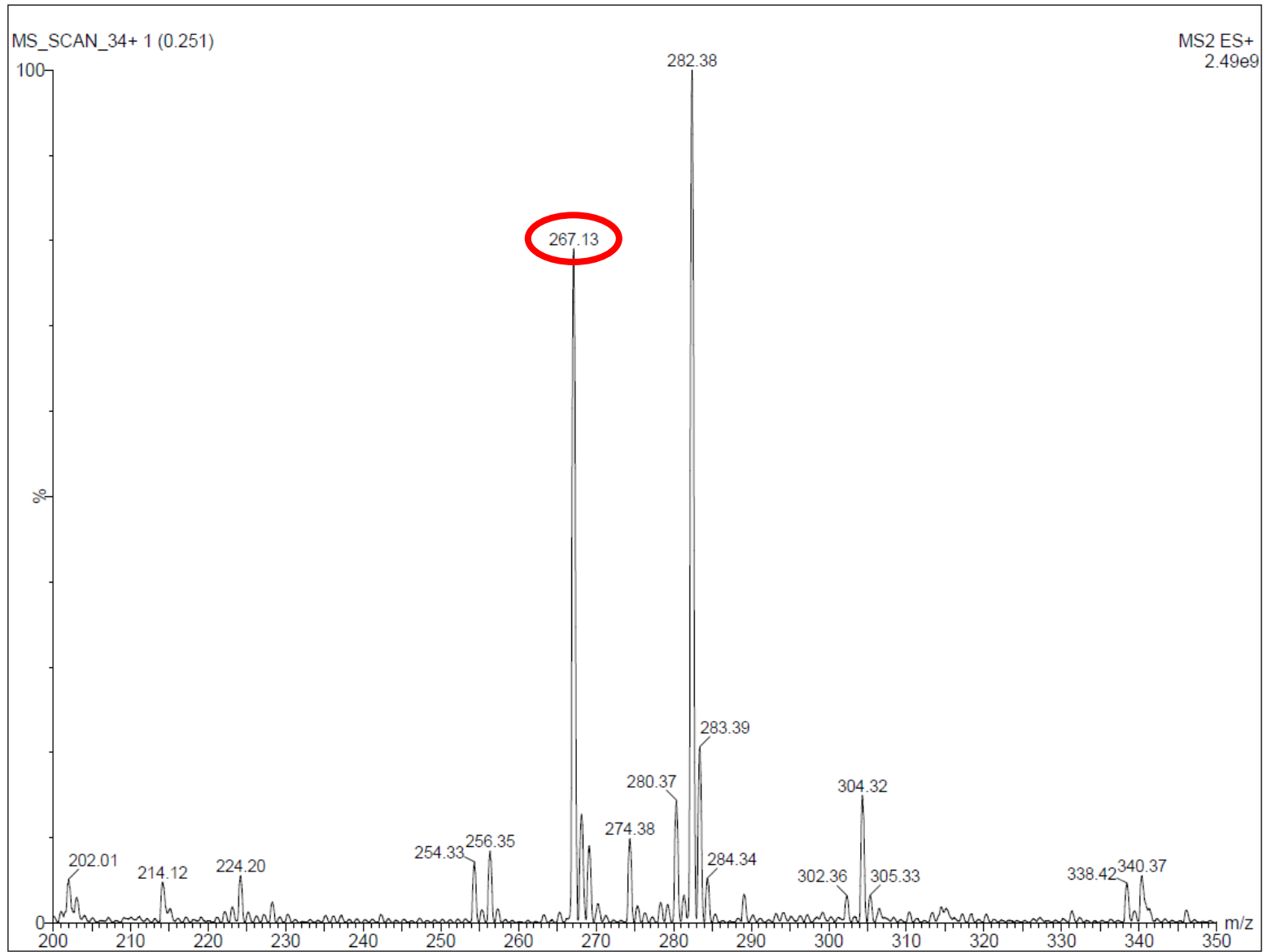


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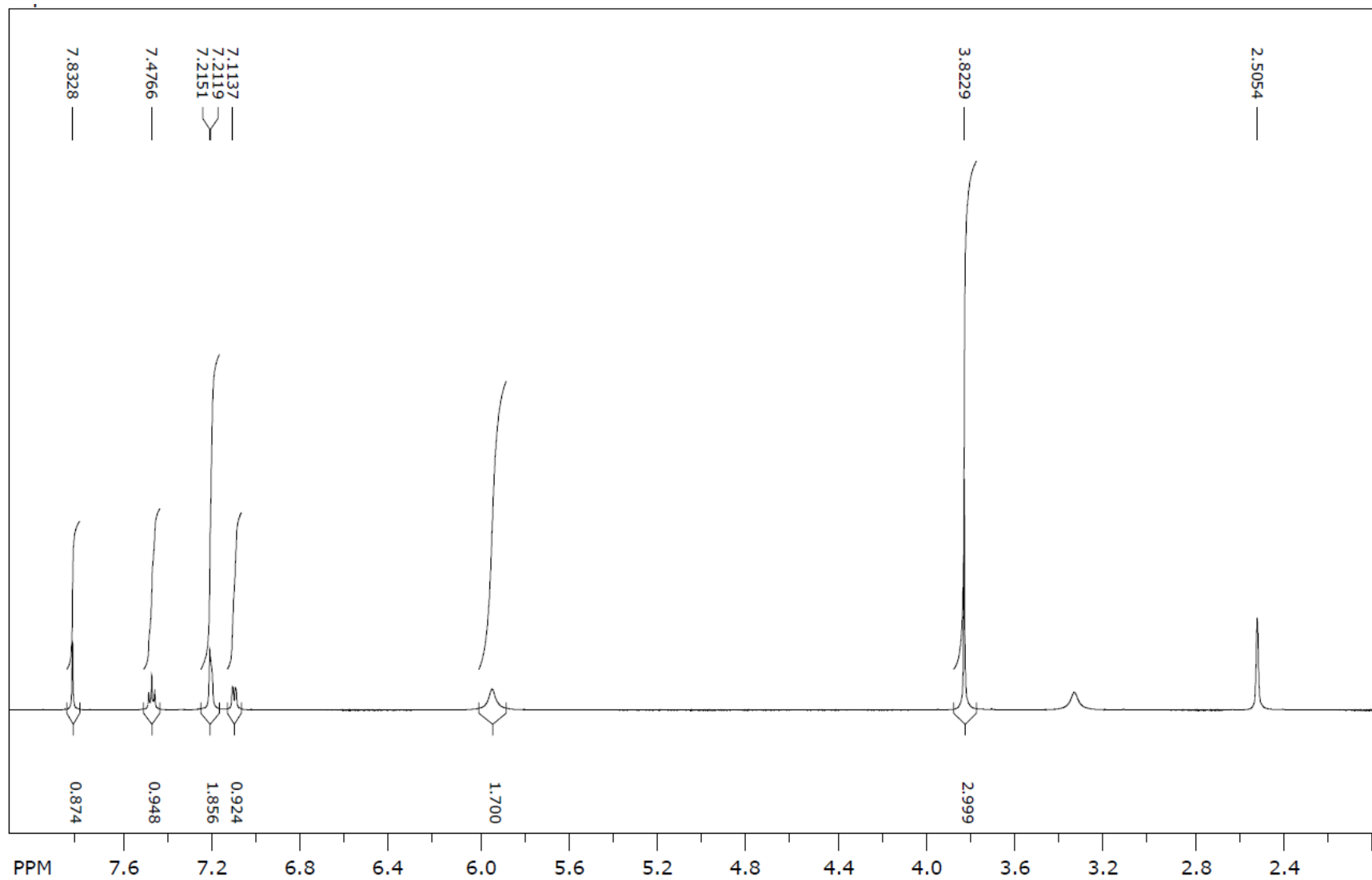
<b>Reaktanti</b>	3-metoksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	266,34 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	180 – 184 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,78
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	267,13
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,82 (s, 1H, CH), 7,47 (t, <i>J</i> = 8,16 Hz, 1H, arom.), 7,21 (d, <i>J</i> = 1,92 Hz, 2H, arom.), 7,10 (dd, <i>J</i> = 8,04; 1,80 Hz, 1H, arom.), 5,94 (s, 2H, NH <sub>2</sub> ), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,65; 163,63; 132,23; 133,28; 130,60; 122,54; 120,58; 117,02; 115,81.

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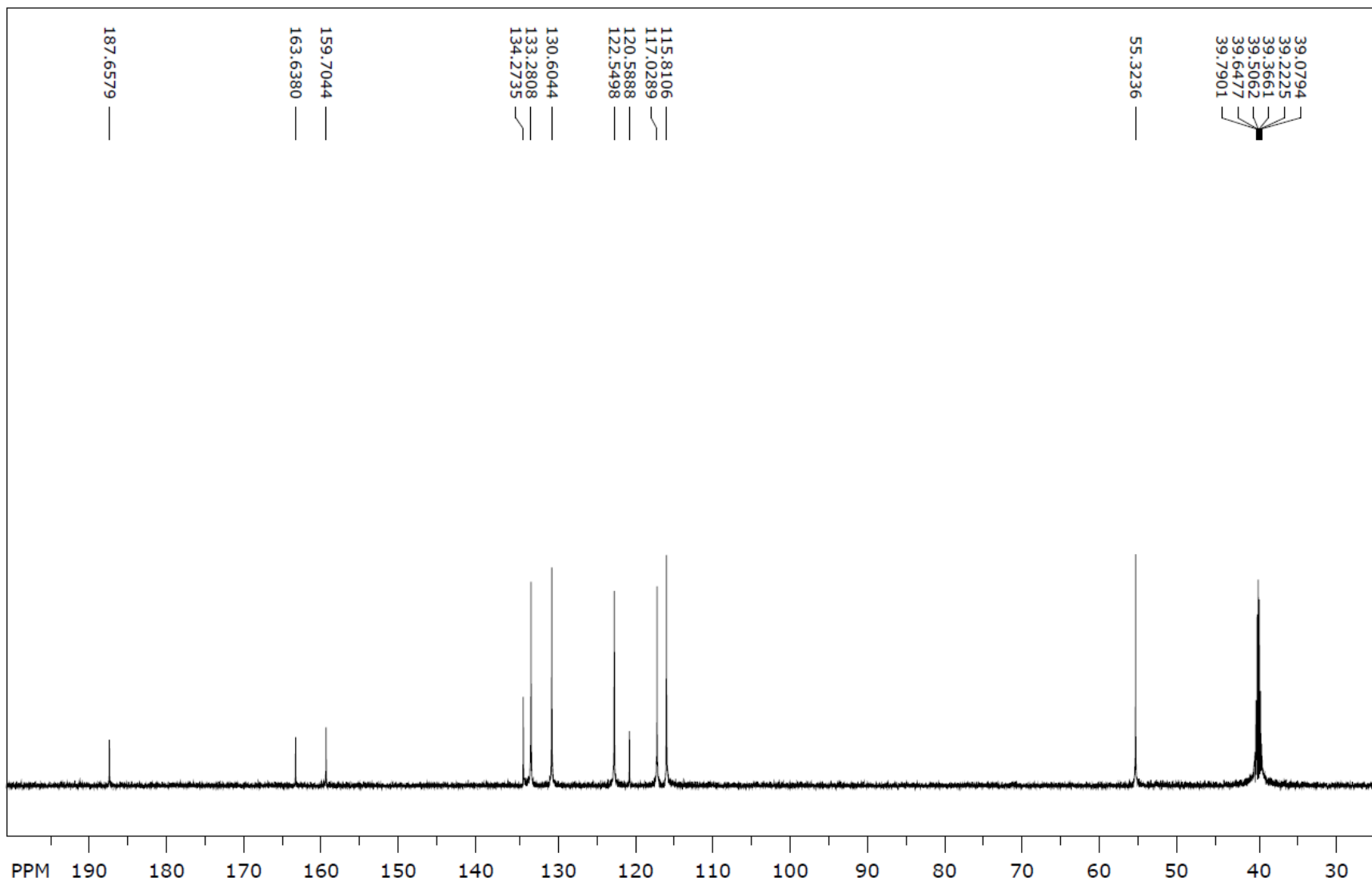
# Maseni spektar (7e)



**<sup>1</sup>H NMR spektr (7e)**



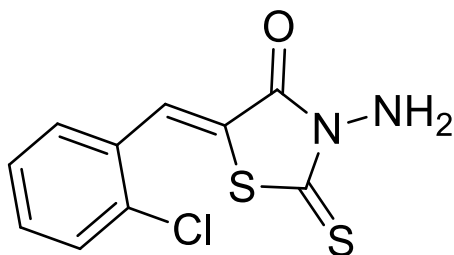
**<sup>13</sup>C NMR spektr (7e)**



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**3-amino-5-(2-klorbenziliden)-2-tioksotiazolidin-4-on (7f)**

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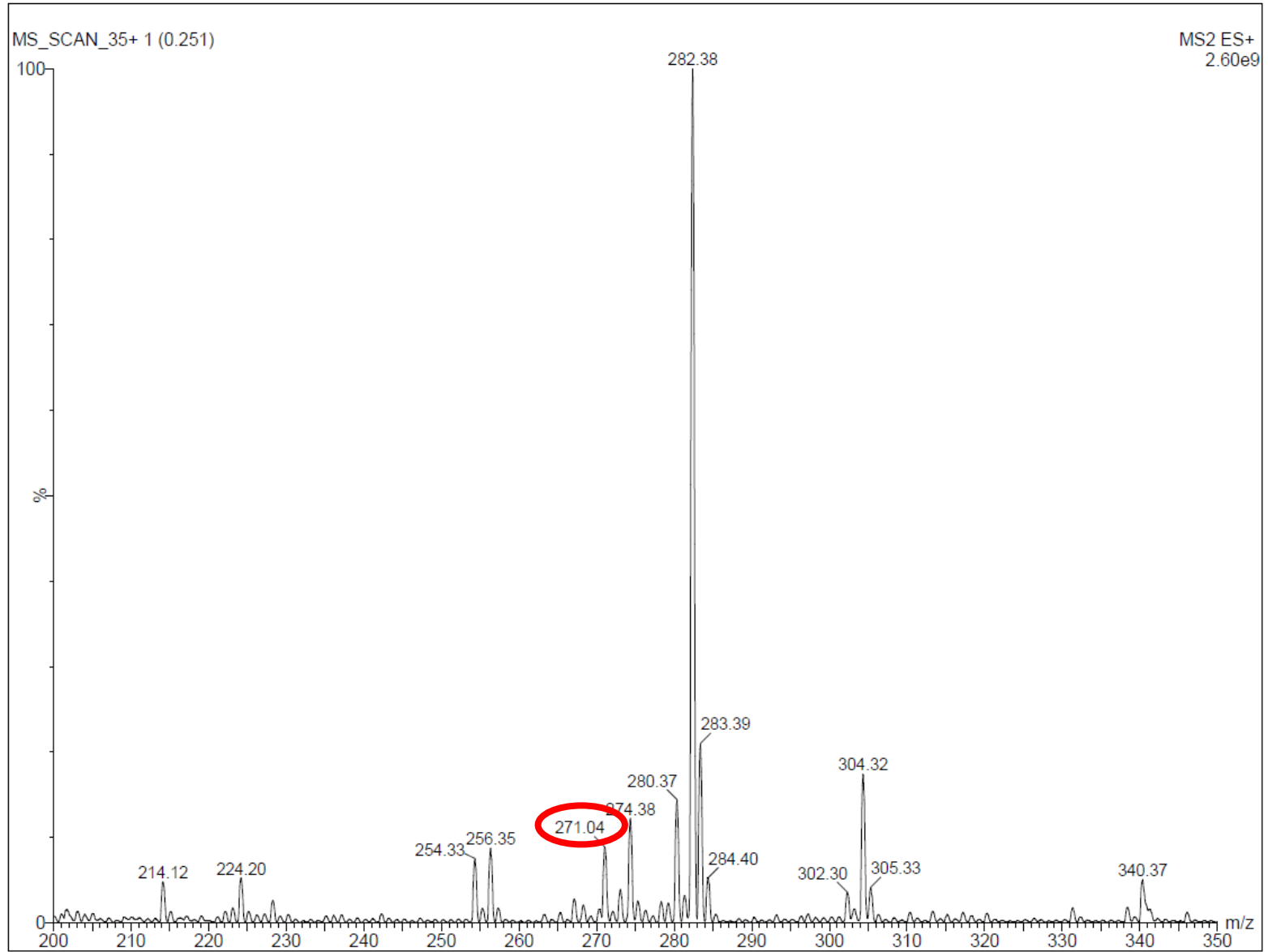


<b>Reaktanti</b>	2-klorbenzaldehyd (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	270,76 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> ClN <sub>2</sub> OS <sub>2</sub>
<b>Temperatura tališta</b>	160 – 162 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,81
<b>LC/MS/MS m/z (M<sup>+</sup>)</b>	271,04
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,93 (s, 1H, CH), 7,66 – 7,67 (m, 1H, arom.), 7,59 – 7,60 (m, 1H, arom.), 7,53 – 7,55 (m, 2H, arom.), 5,93 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,90; 163,44; 134,75; 132,33; 130,49, 129,56; 128,30; 127,81; 123,90.

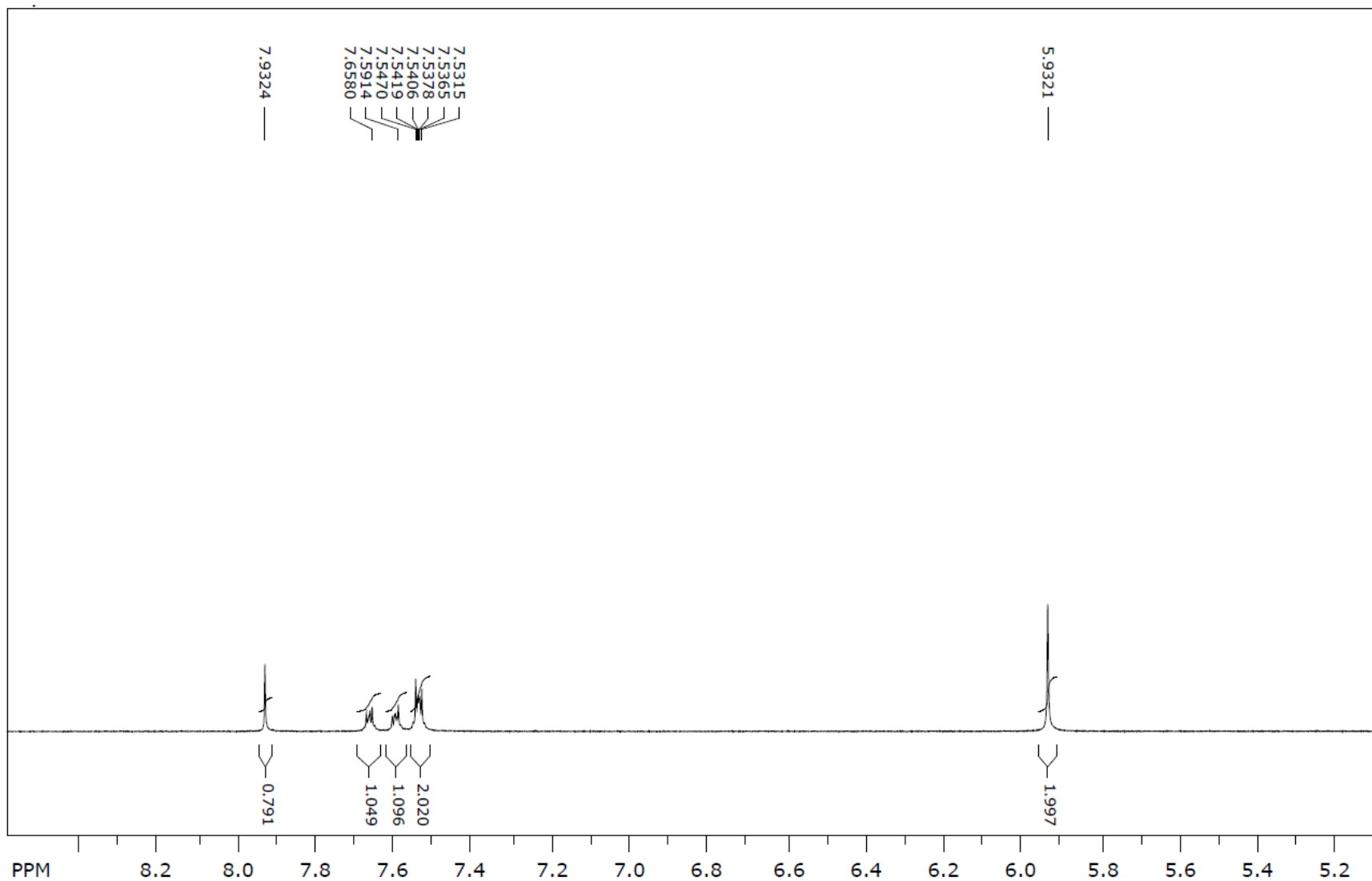
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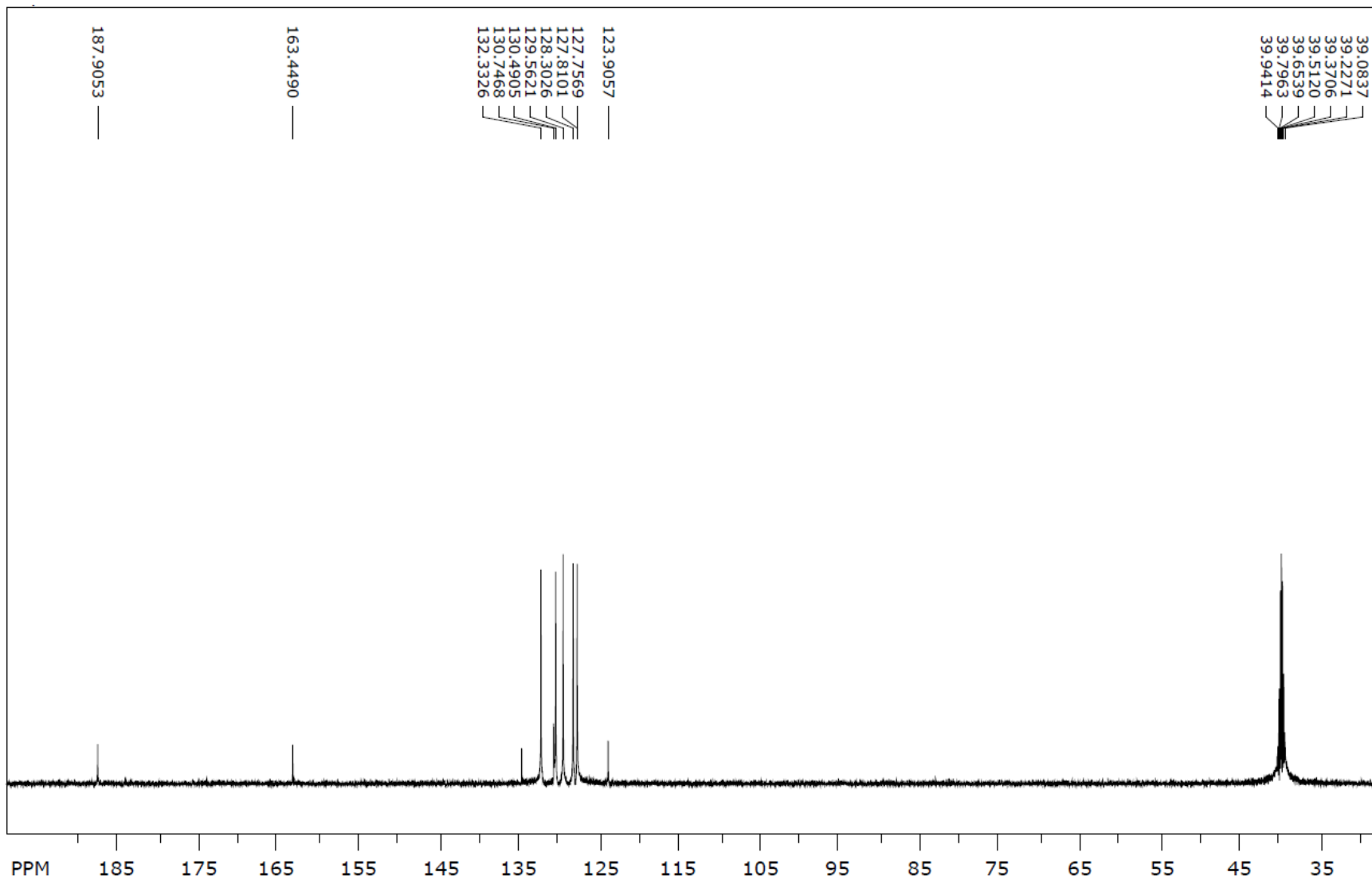
# Maseni spektar (7f)



**<sup>1</sup>H NMR spektr (7f)**



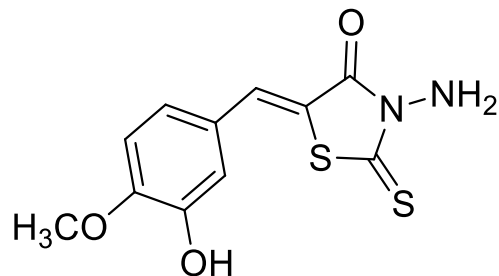
# <sup>13</sup>C NMR spektr (7f)



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**3-amino-5-(3-hidroksi-4-metoksibenziliden)-2-tioksotiazolidin-4-on  
(7g)**

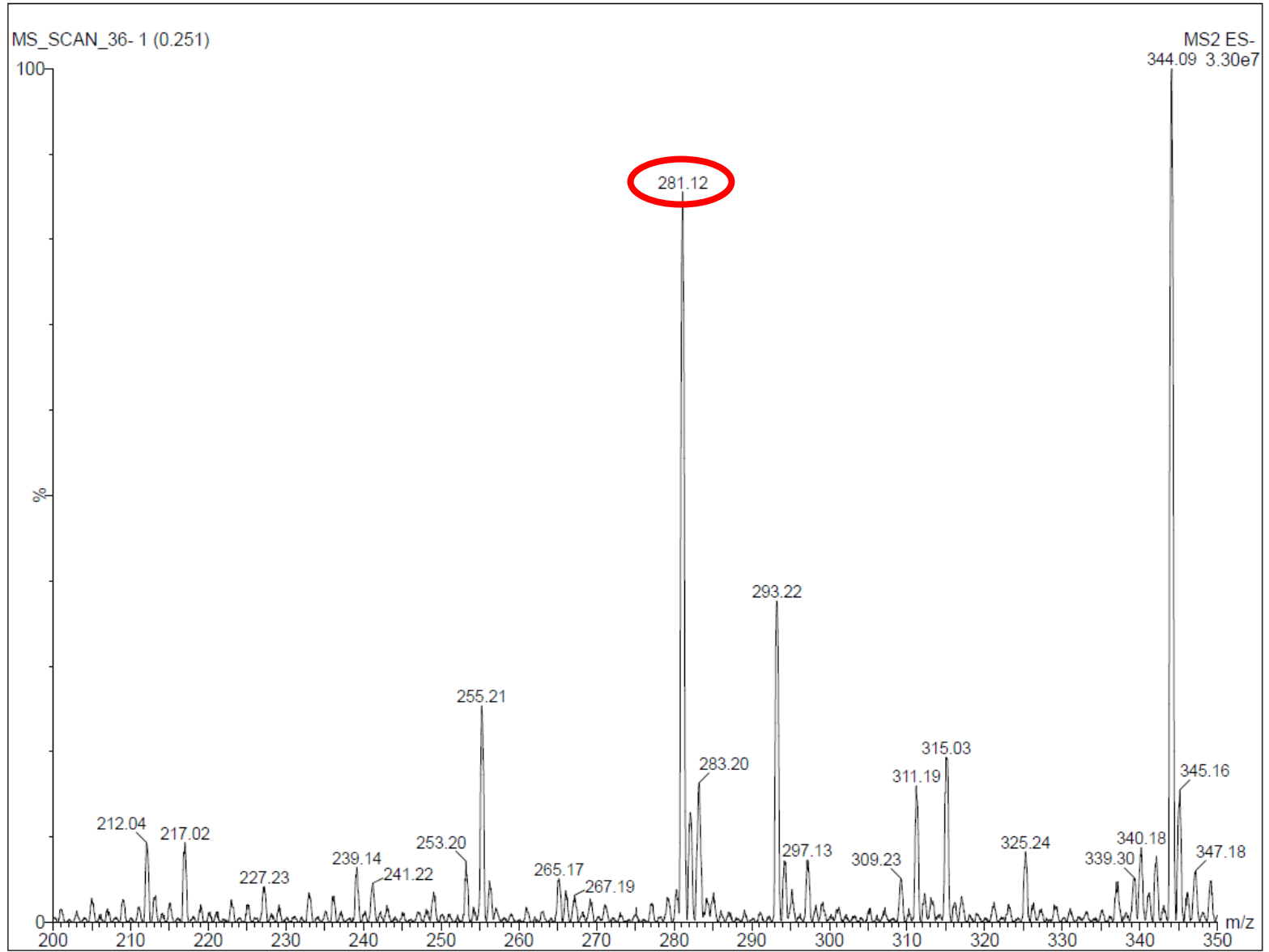
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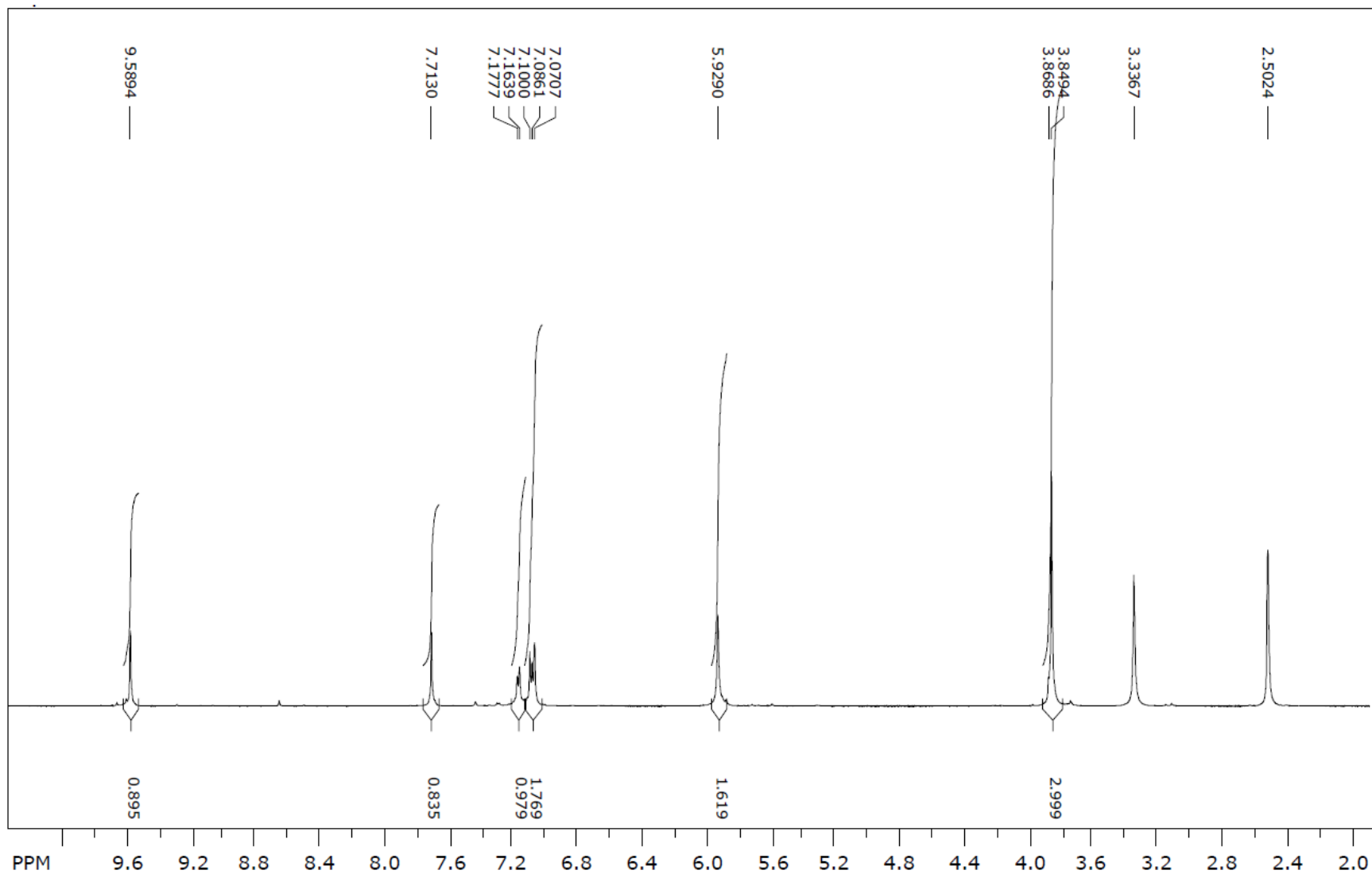
<b>Reaktanti</b>	3-hidroksi-4-metoksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	282,34 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	192 – 197 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,65
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	281,12
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,59 (s, 1H, OH), 7,71 (s, 1H, CH), 7,17 (d, <i>J</i> = 8,28 Hz, 1H, arom.), 7,09 (t, <i>J</i> = 8,34; 9,24 Hz, 2H, arom.), 5,29 (s, 2H, NH <sub>2</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,20; 163,59; 150,76; 147,12; 134,03; 125,68; 124,84; 116,56; 116,17; 112,54, 55,72.

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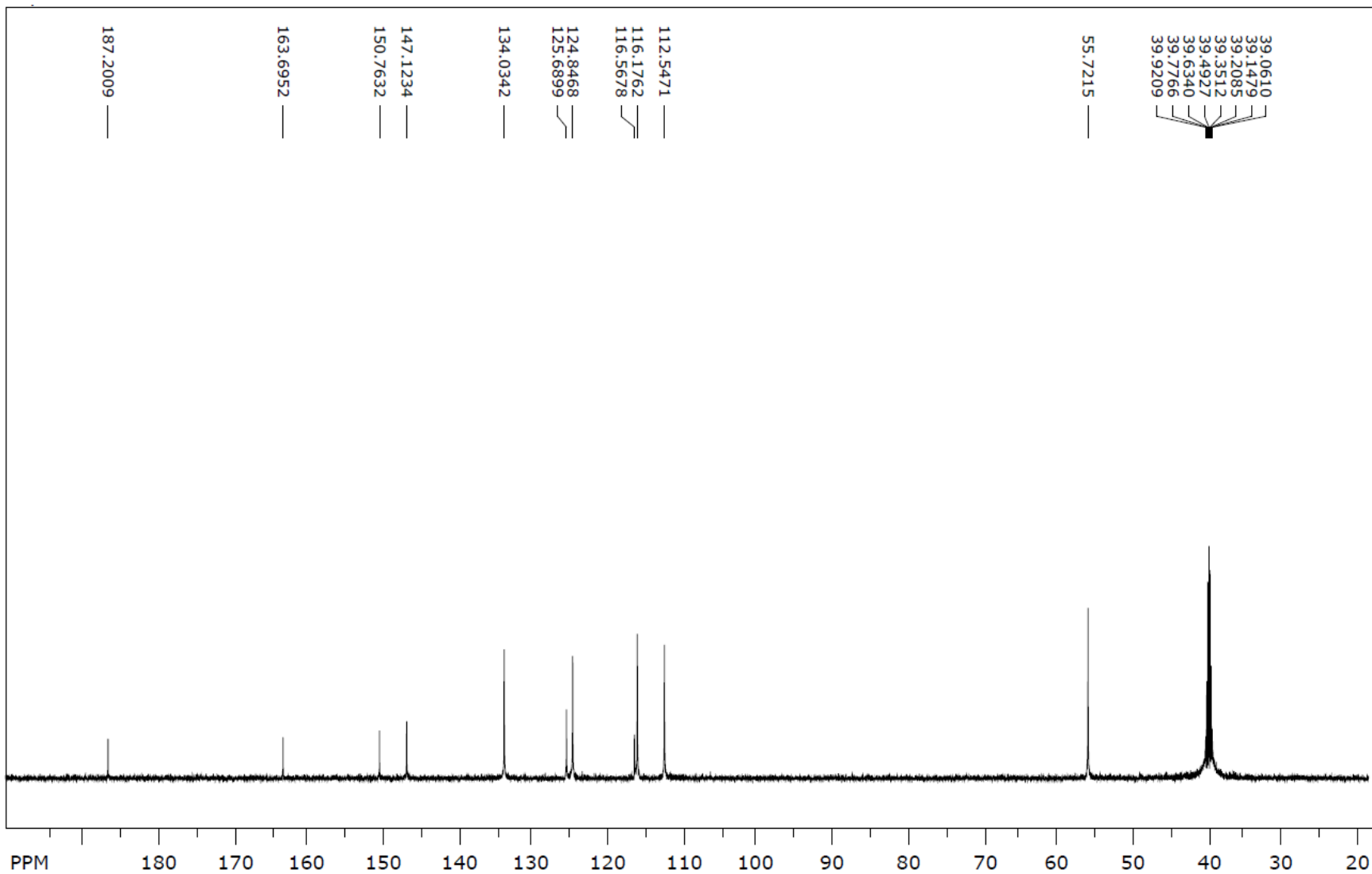
# Maseni spektar (7g)



**<sup>1</sup>H NMR spektr (7g)**



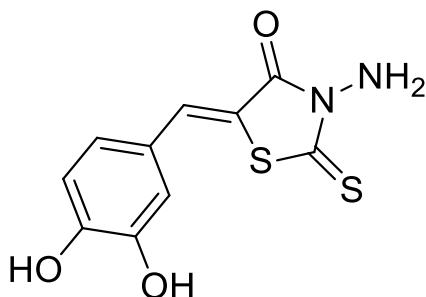
**<sup>13</sup>C NMR spektr (7g)**



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**3-amino-5-(3,4-dihidroksibenziliden)-2-tioksotiazolidin-4-on (7h)**

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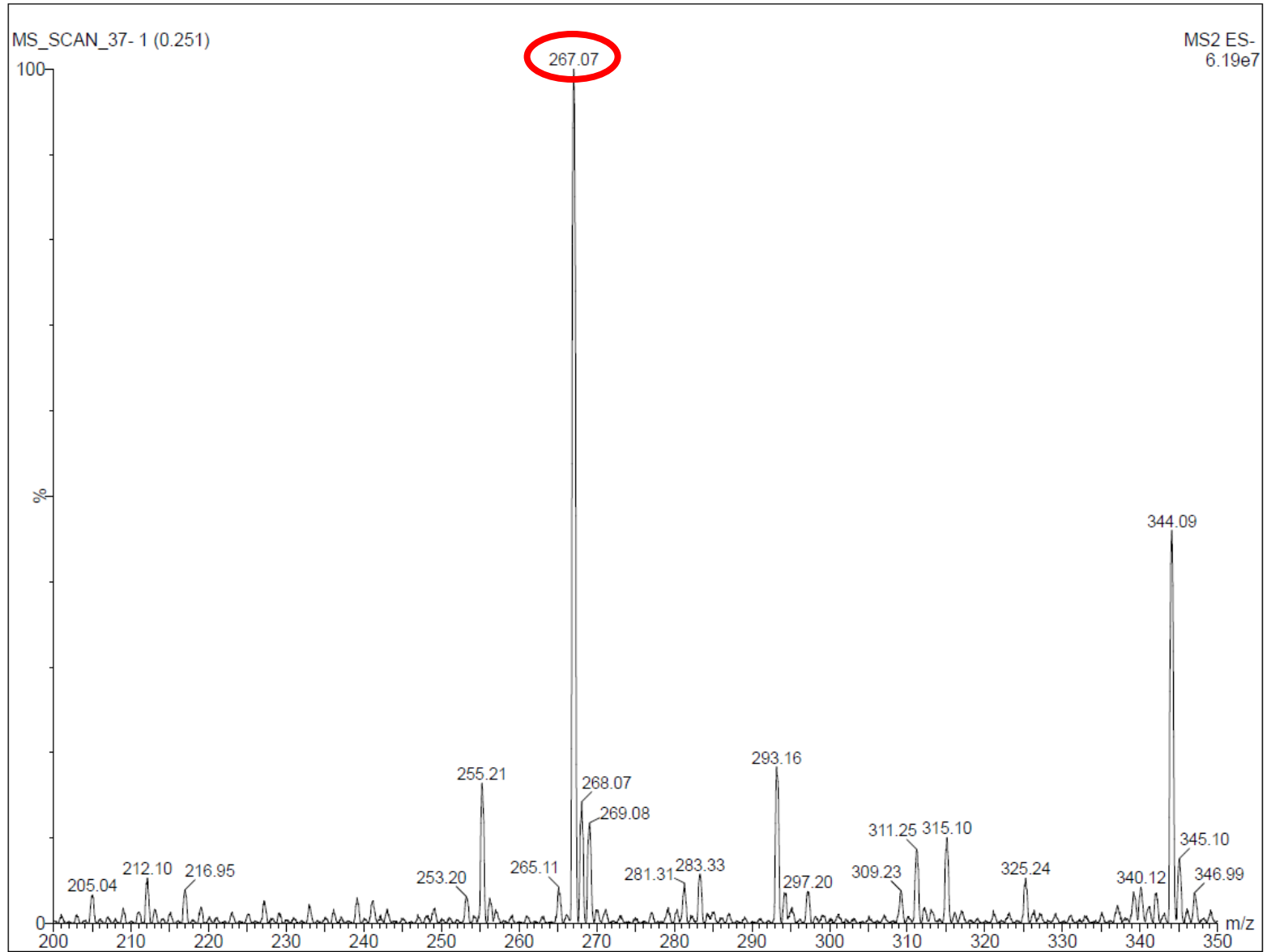


<b>Reaktanti</b>	3,4-dihidroksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran heksan : etanol (4 : 1), ispran heksanom
<b>Molekulska masa</b>	268,31 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	257 – 258 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,51
<b>LC/MS/MS m/z (M-)</b>	267,07
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,78 (s, 1H, OH), 8,56 (s, 1H, OH), 7,66 (s, 1H, CH), 7,04 (d, <i>J</i> = 6,84 Hz, 2H, arom.), 6,88 (d, <i>J</i> = 8,34 Hz, 1H, arom.), 5,88 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,04; 163,73; 149,58; 146,09; 134,52; 129,38; 124,40; 116,79; 116,49; 115,24.

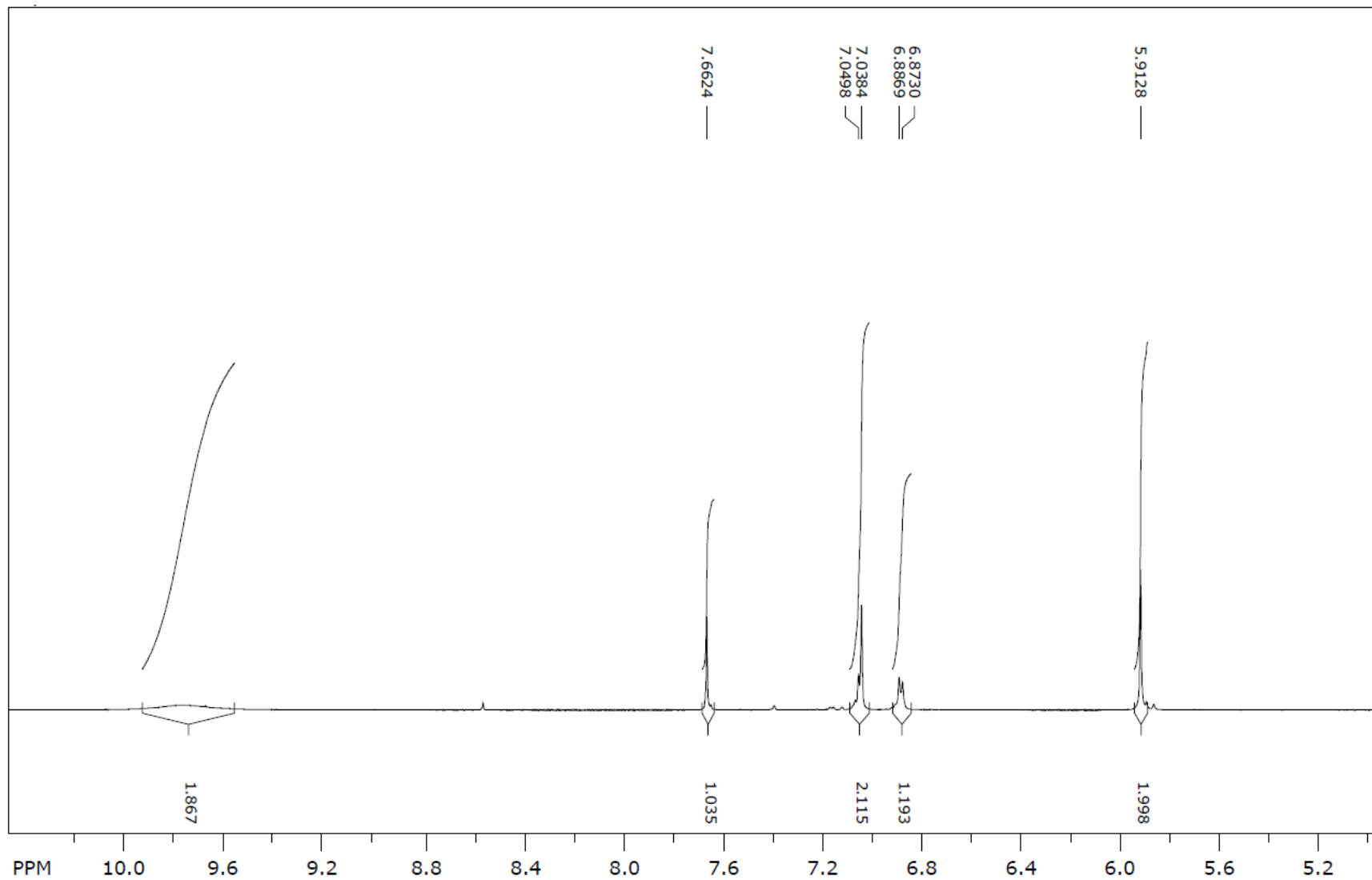
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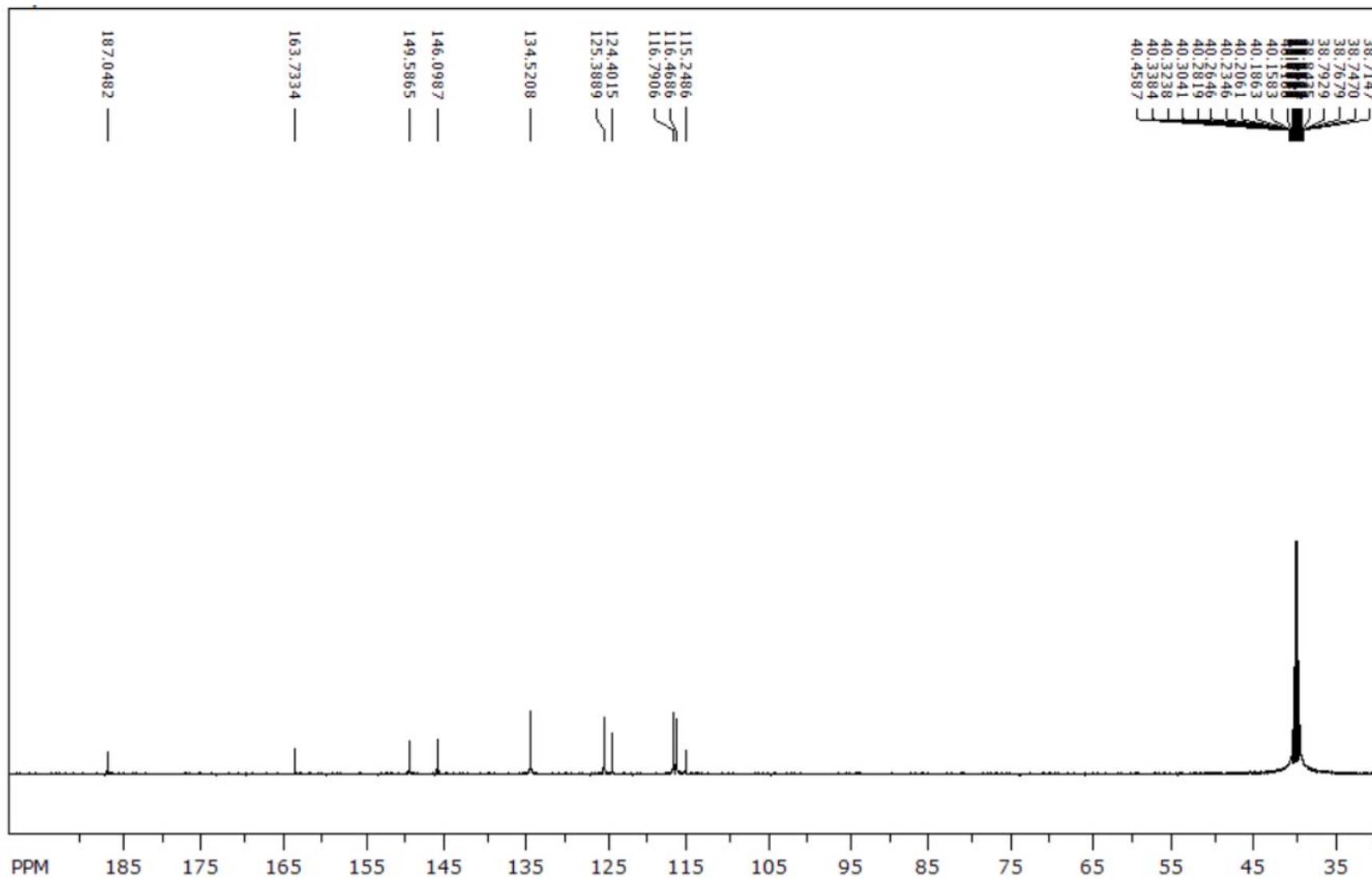
# Maseni spektr (7h)



<sup>1</sup>H NMR spektr (7h)



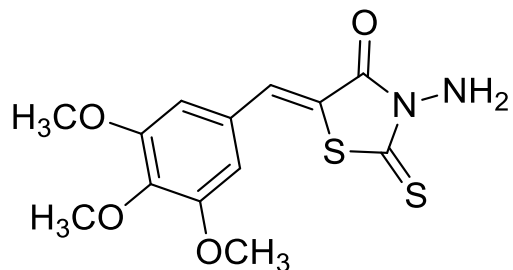
# <sup>13</sup>C NMR spektr (7h)



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**3-amino-2-tiokso-5-(3,4,5-trimetoksibenzilidene)tiazolidin-4-on (7i)**

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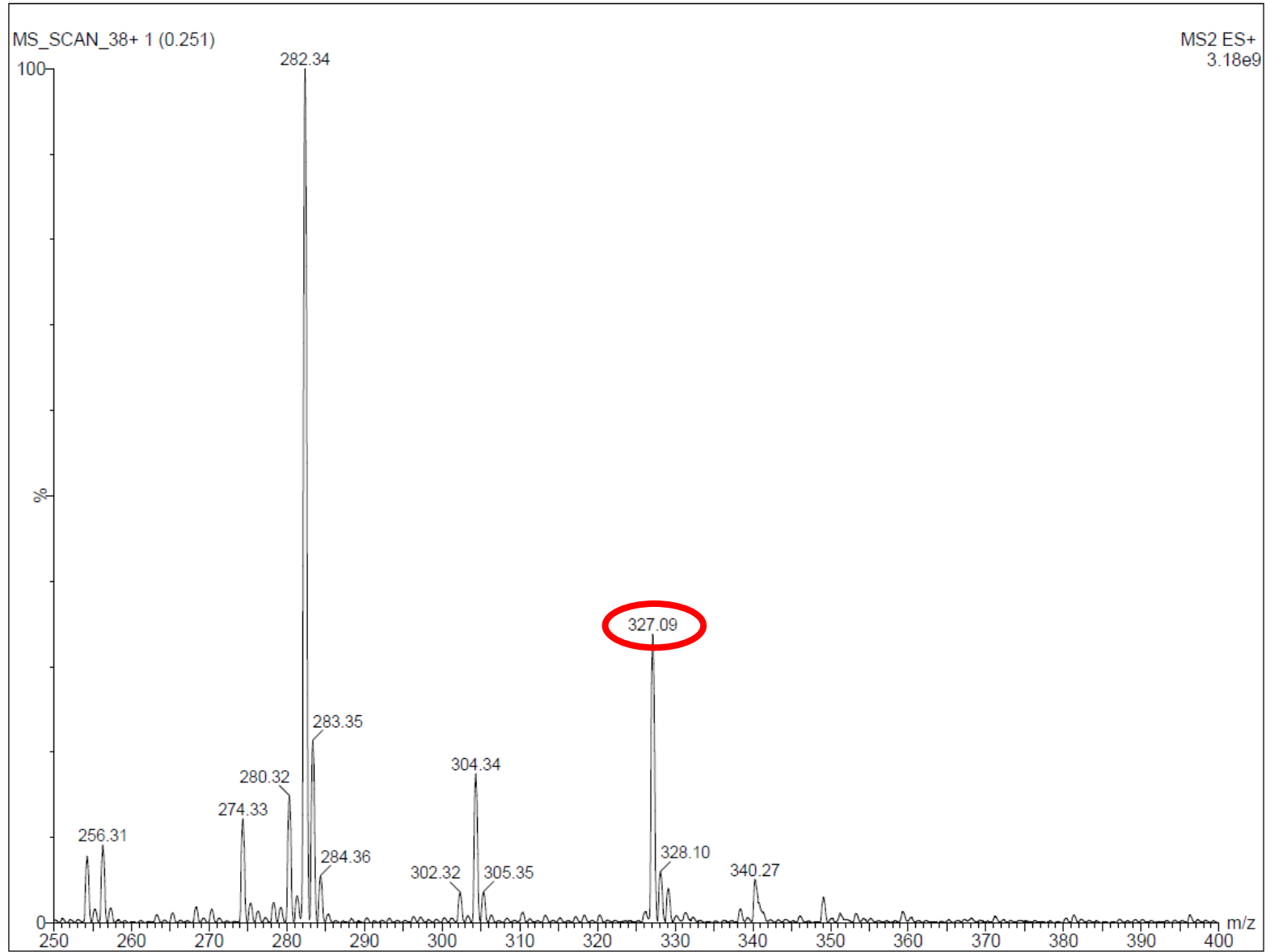


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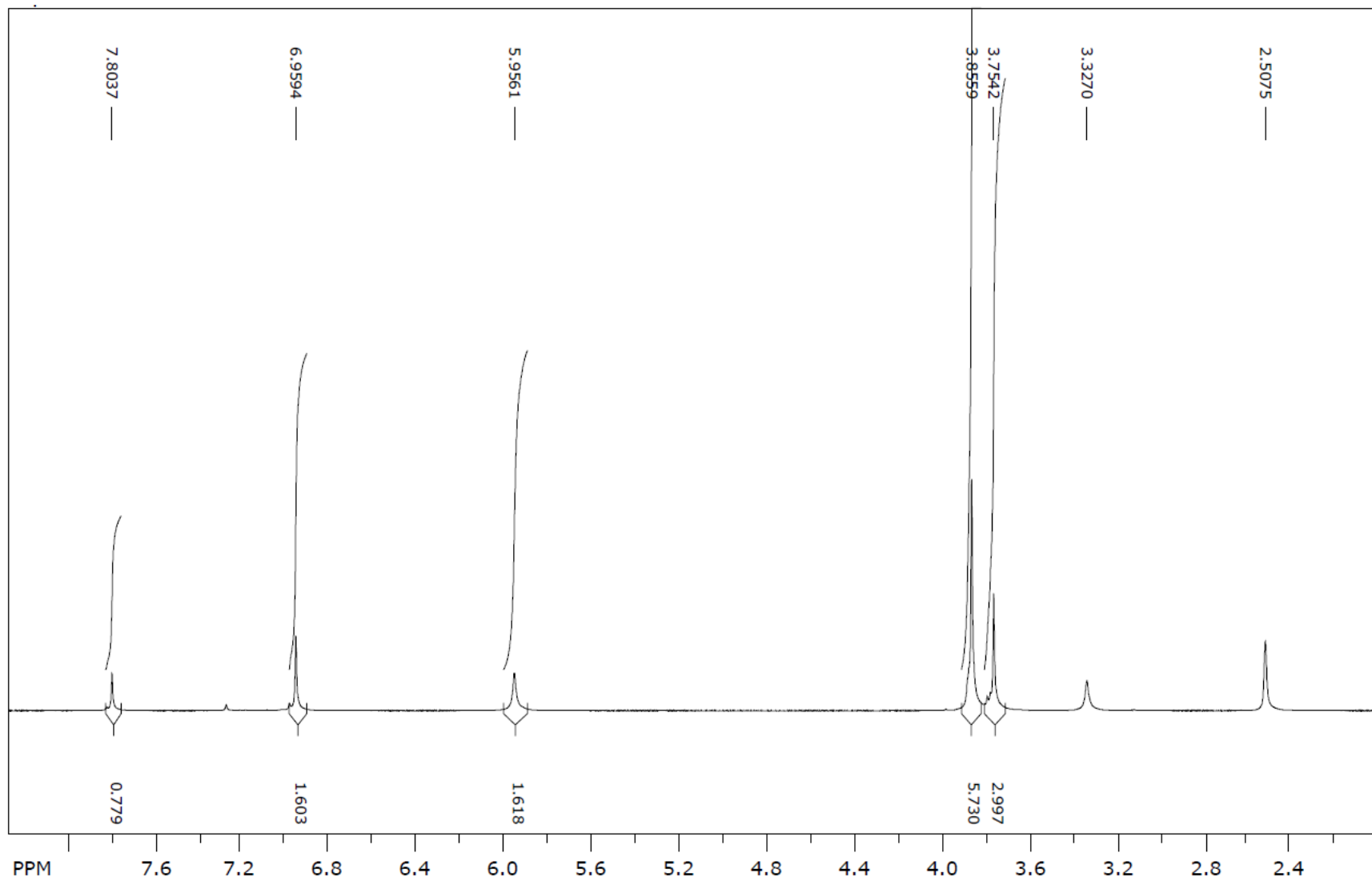
<b>Reaktanti</b>	3,4,5-trimetoksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	326,39 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	165 – 169 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,76
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	327,09
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,80 (s, 1H, CH), 6,95 (s, 2H, arom.), 5,95 (s, 2H, NH <sub>2</sub> ), 3,85 (s, 6H, CH <sub>3</sub> , OCH <sub>3</sub> ), 3,75 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,32; 163,22; 153,27; 140,03; 133,68; 128,38; 118,99; 108,04; 60,22; 56,04.

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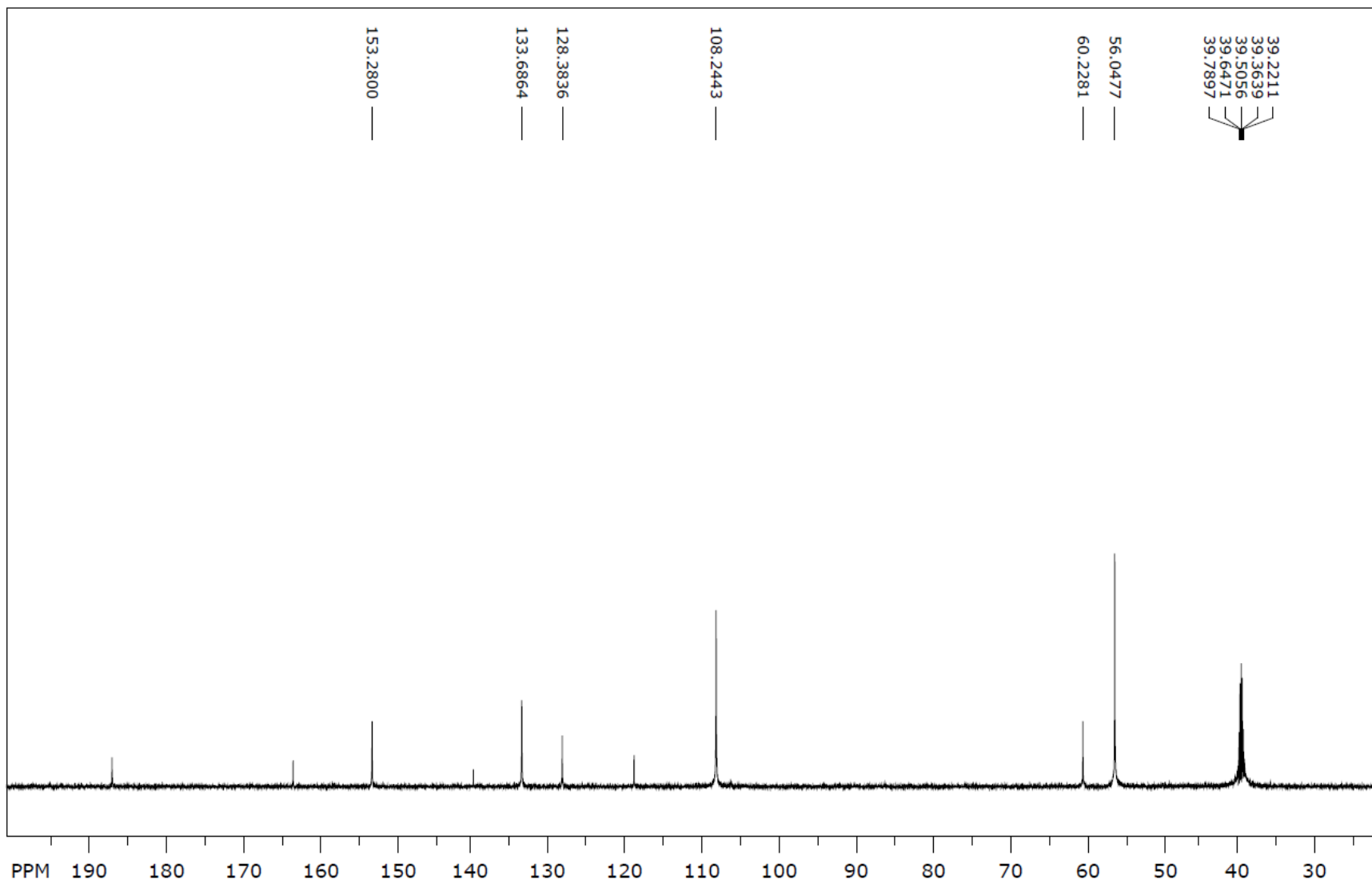
# Maseni spektr (7i)



# <sup>1</sup>H NMR spektr (7i)



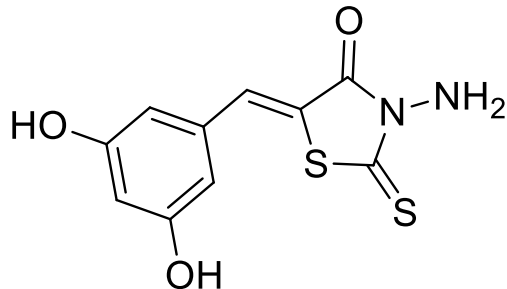
**<sup>13</sup>C NMR spektr (7i)**



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**3-amino-5-(3,5-dihidroksibenziliden)-2-tioksotiazolidin-4-on (7j)**

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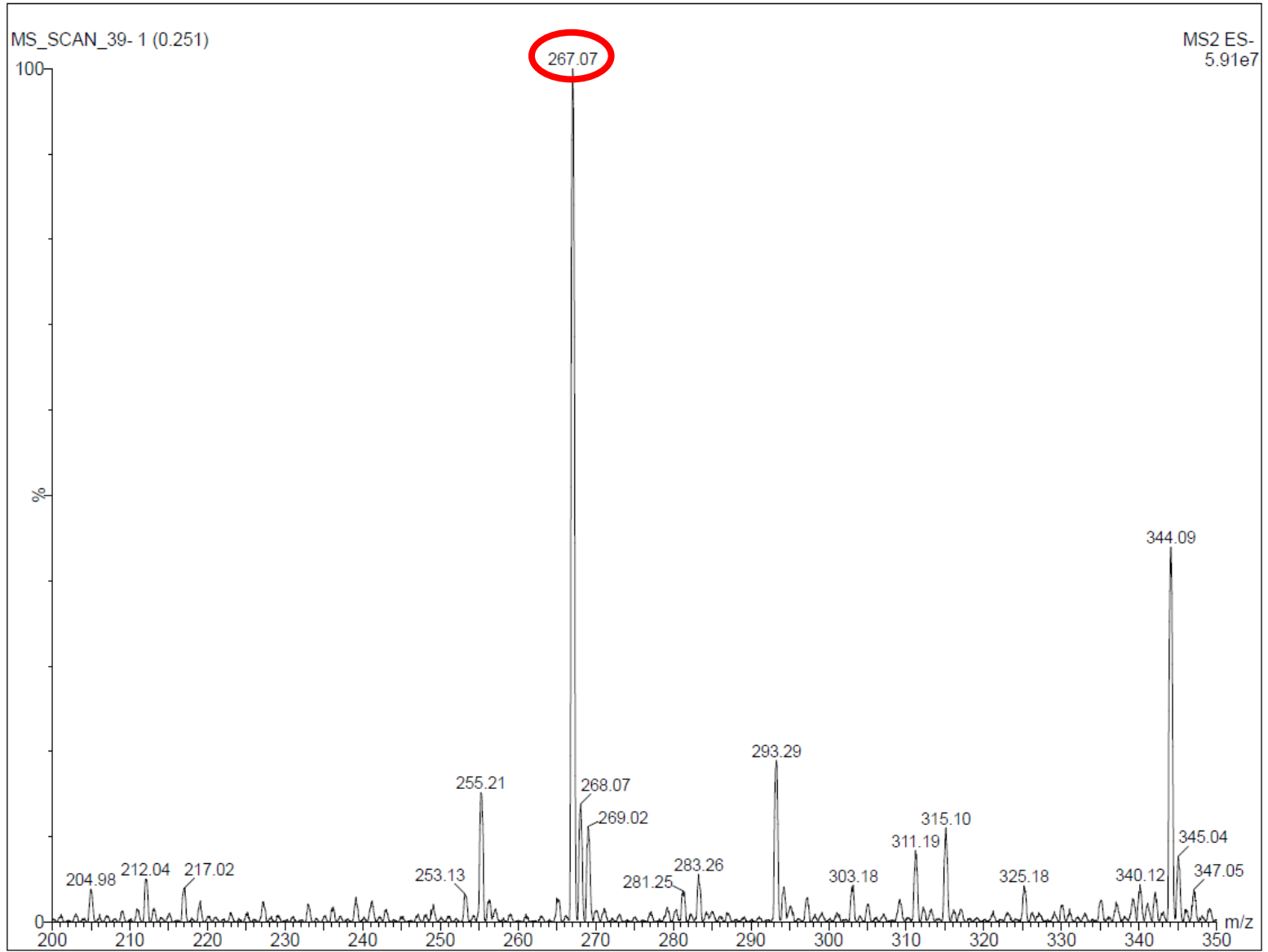
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<b>Reaktanti</b>	3,5-dihidroksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	268,31 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	253 – 257 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,43
<b>LC/MS/MS <i>m/z</i> (M-)</b>	267,07
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,72 (s, 2H, OH), 7,63 (s, 1H, CH), 6,51 (s, 2H, arom.), 6,36 (s, 1H, arom.), 5,92 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,82; 163,62; 159,06; 134,41; 133,92; 119,83; 108,60; 105,52.

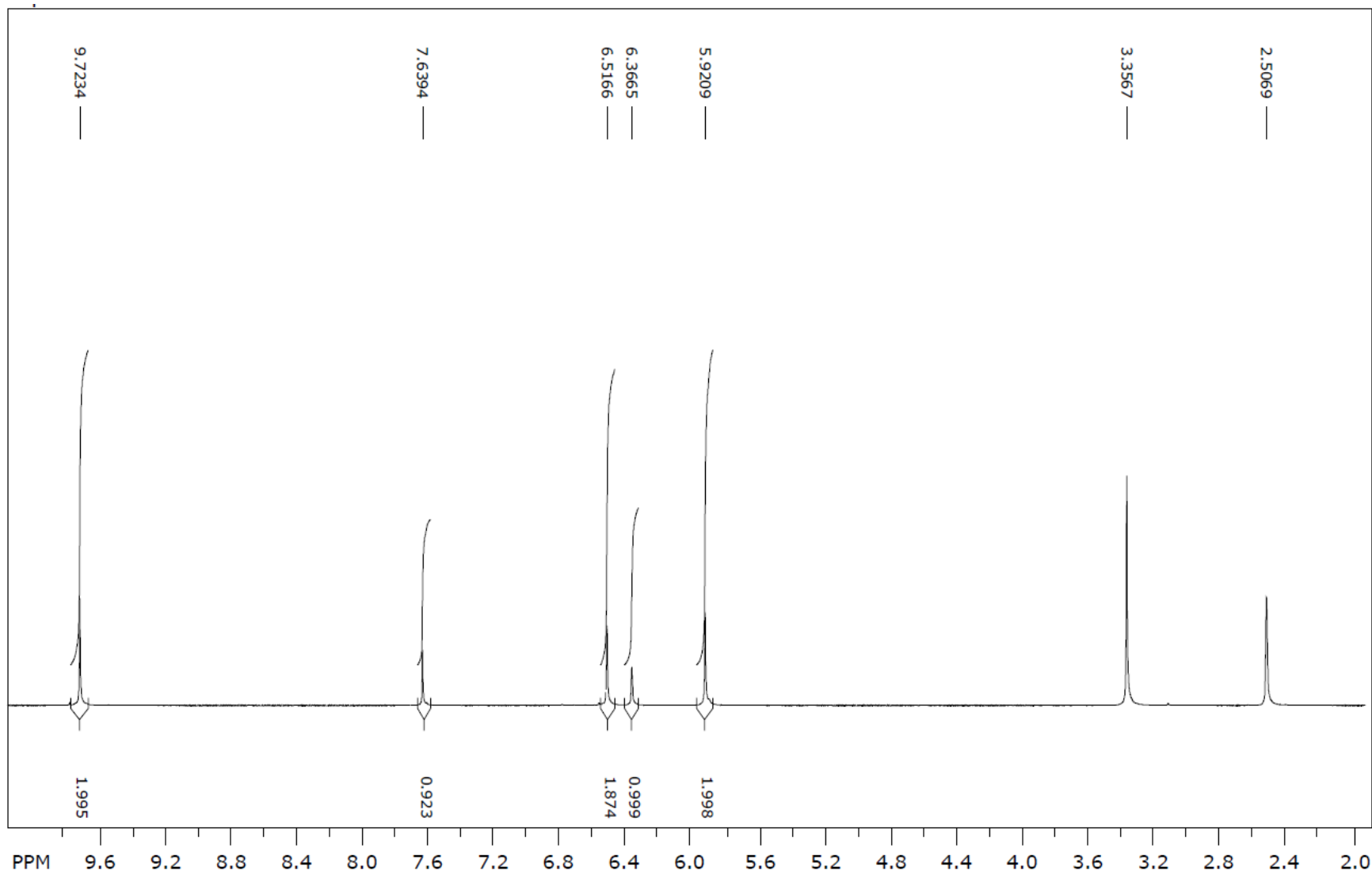
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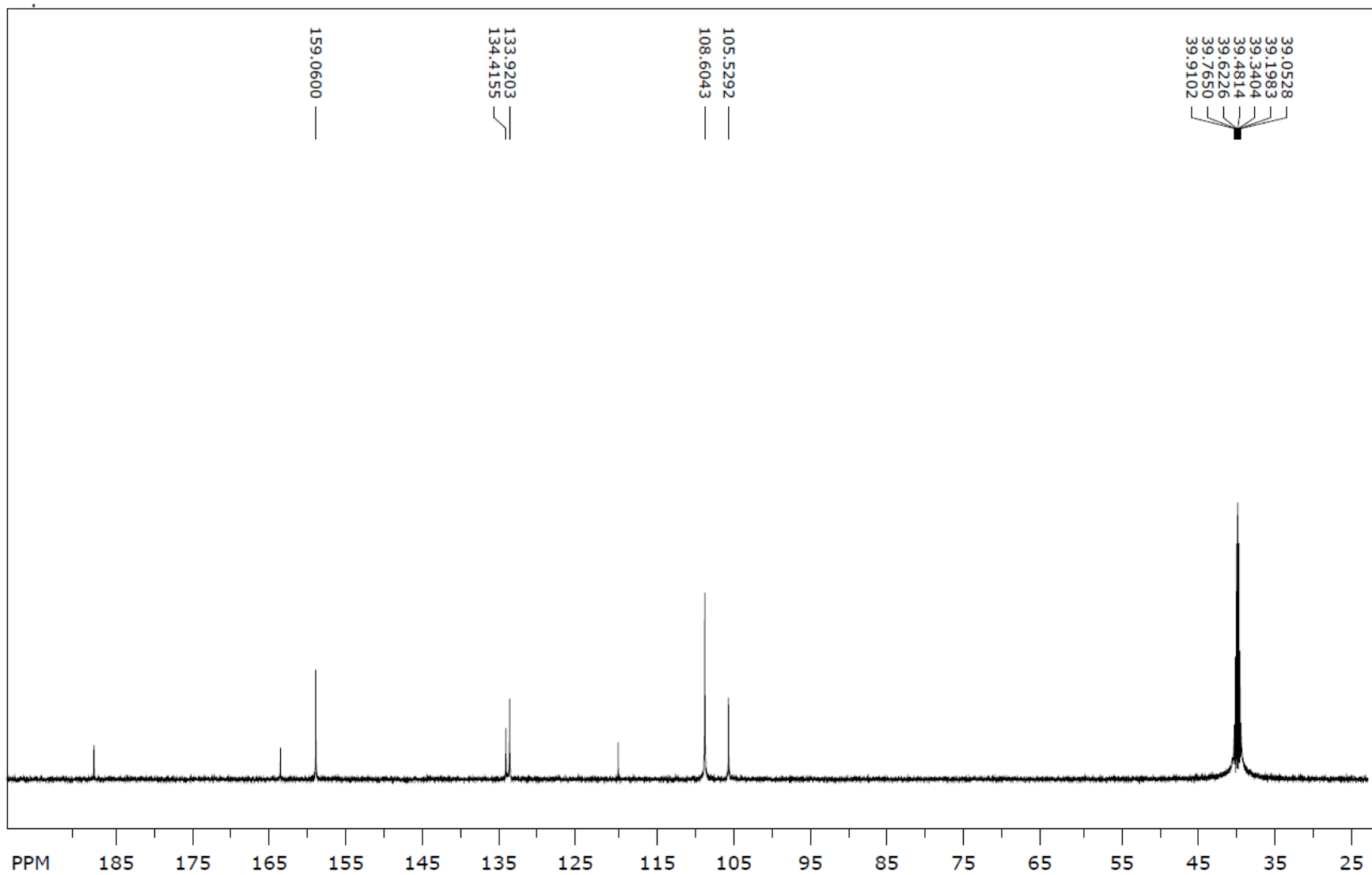
# Maseni spektr (7j)



# <sup>1</sup>H NMR spektr (7j)



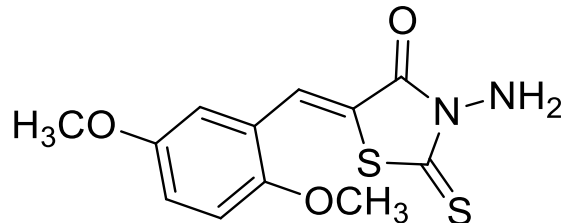
**<sup>13</sup>C NMR spektr (7j)**



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**3-amino-5-(2,5-dimetoksibenziliden)-2-tioksotiazolidin-4-one (7k)**

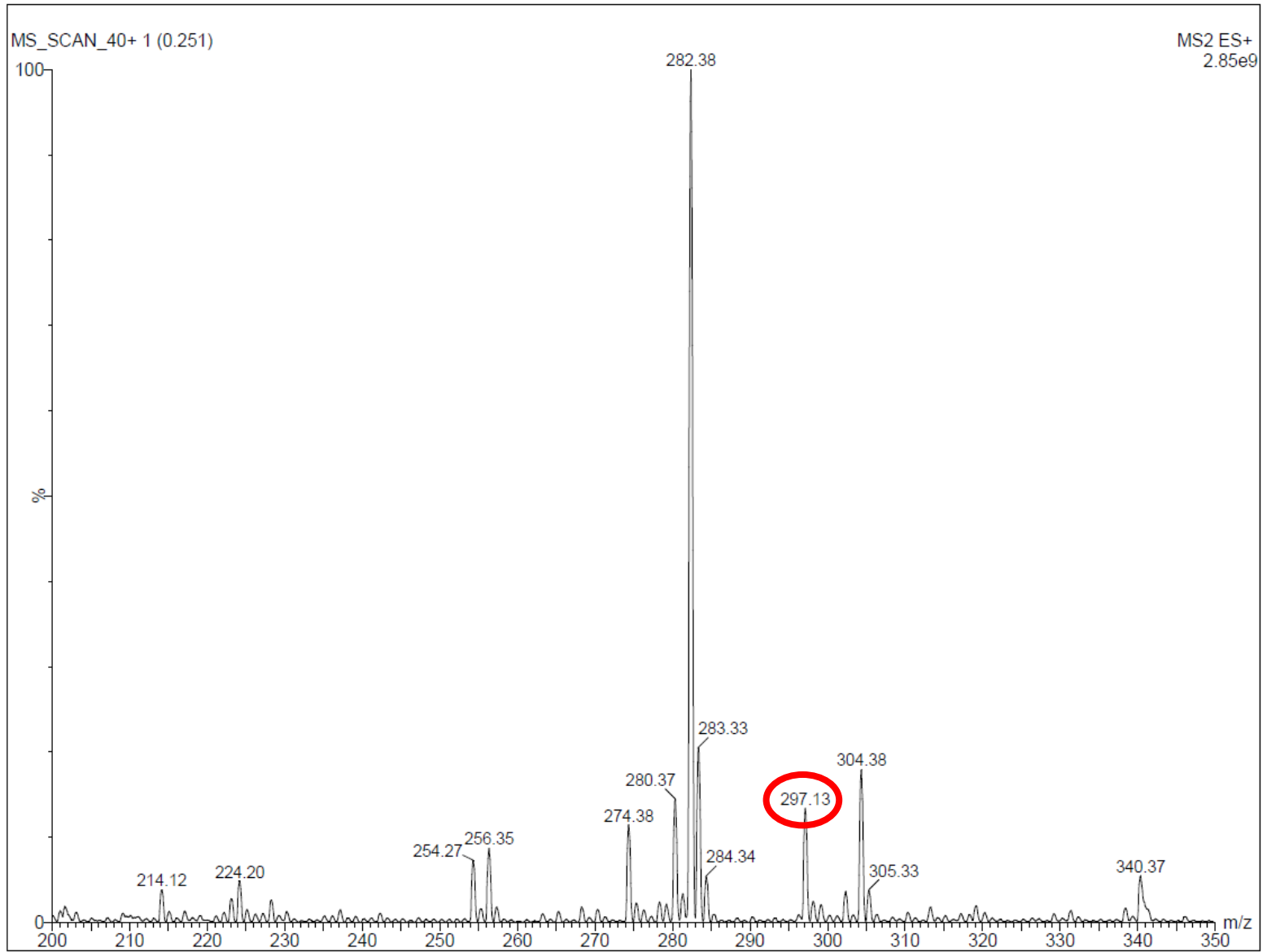
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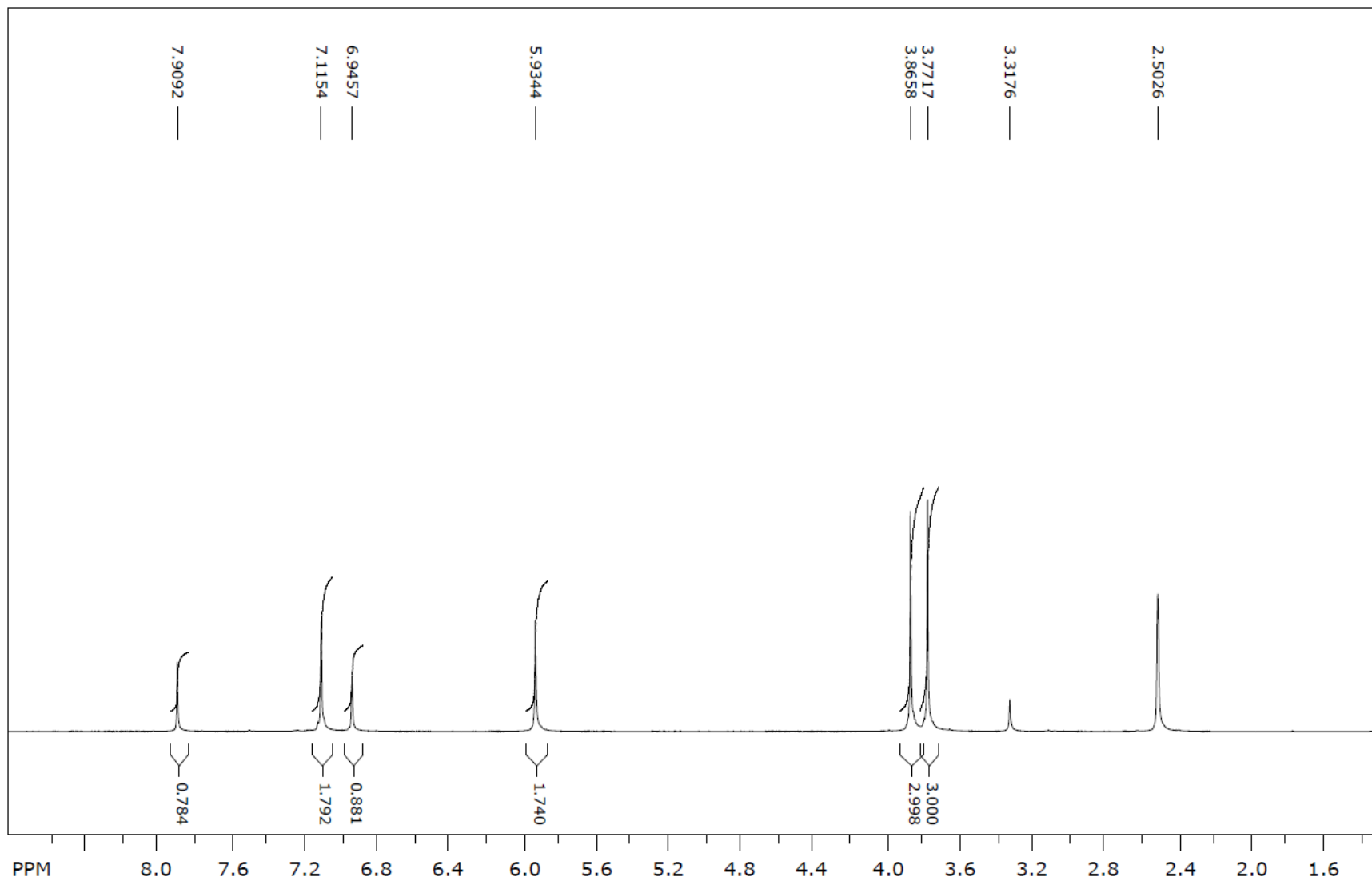
<b>Reaktanti</b>	2,5-dimetoksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	296,37 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	156 – 158 °C
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,79; 0,74
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	297,13
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,90 (s, 1H, CH), 7,11 (s, 2H, arom.), 6,94 (s, 1H, arom.), 5,93 (s, 2H, NH <sub>2</sub> ), 3,86 (s, 3H, OCH <sub>3</sub> ), 3,77 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,96; 163,74; 153,21; 152,53; 128,57; 121,69; 120,49; 118,97; 114,37; 113,26; 56,07; 55,60.

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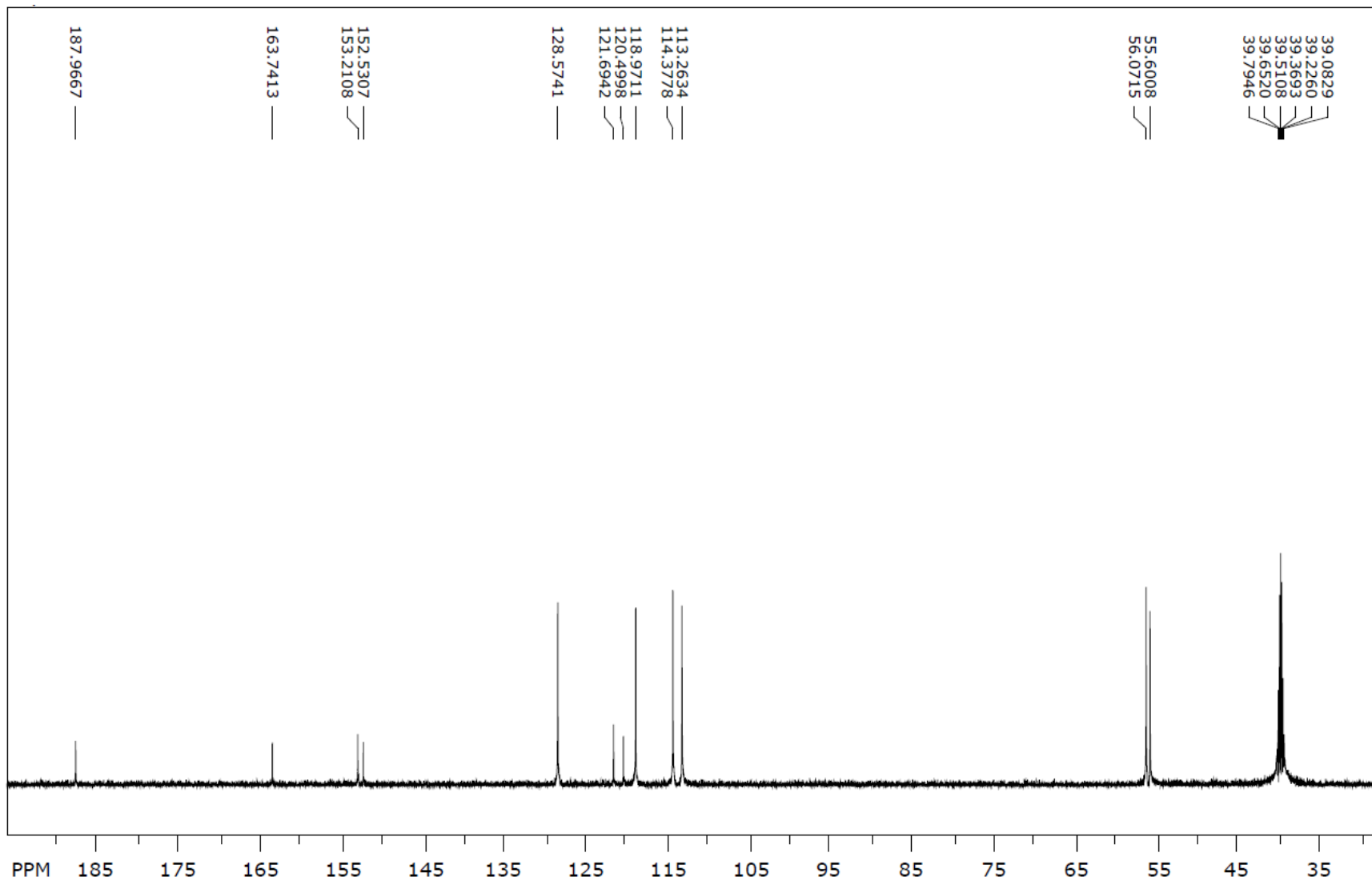
# Maseni spektar (7k)



<sup>1</sup>H NMR spektr (7k)



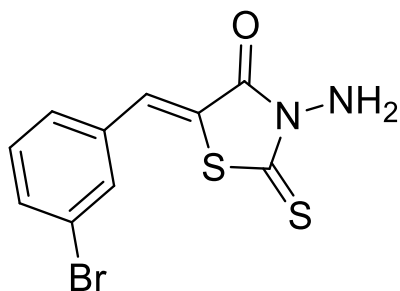
**<sup>13</sup>C NMR spektr (7k)**



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**3-amino-5-(3-brombenziliden)-2-tioksotiazolidin-4-on (7I)**

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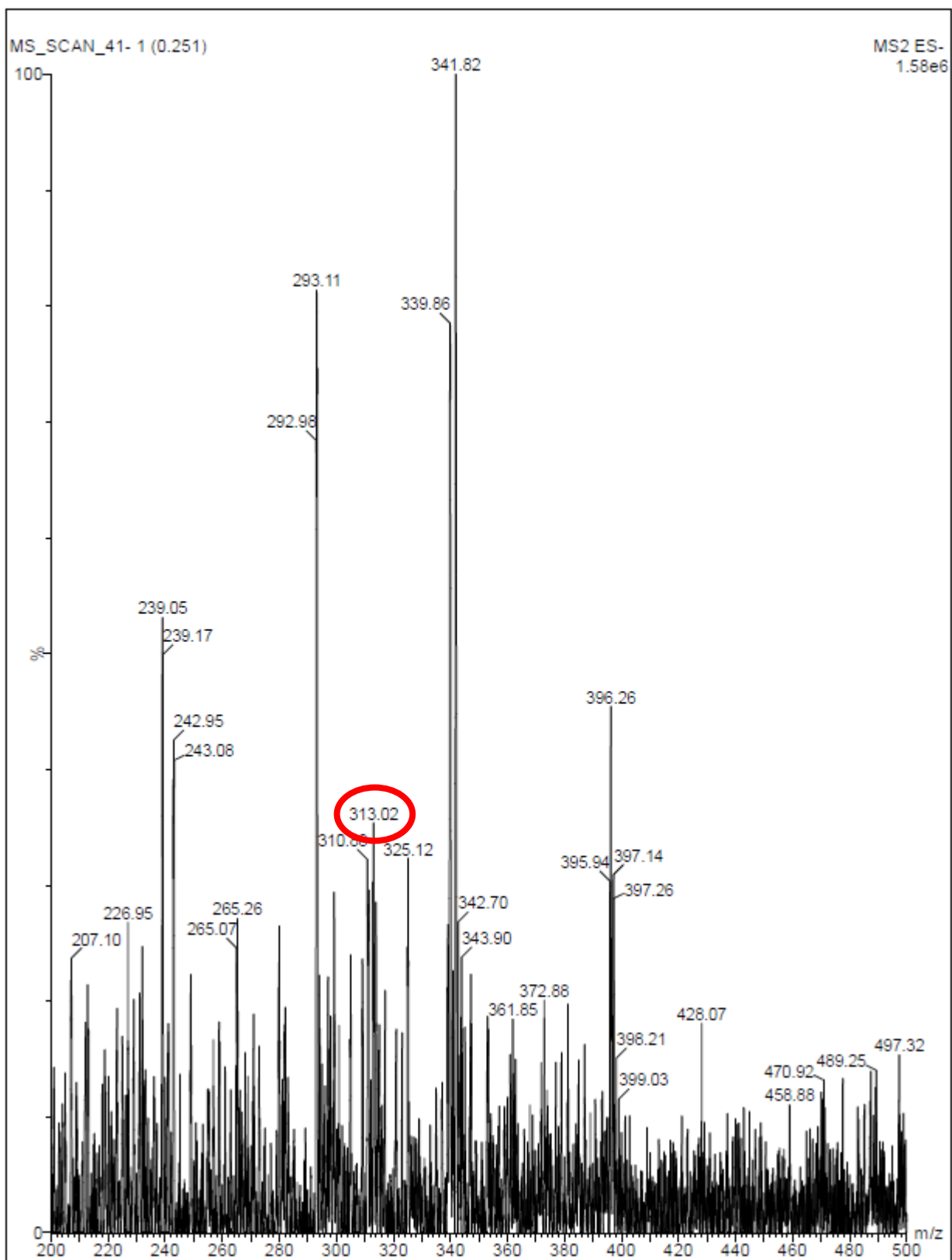


<b>Reaktanti</b>	3-brombenzaldehyd (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	315,21 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> BrN <sub>2</sub> OS <sub>2</sub>
<b>Temperatura tališta</b>	195 - 199 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,78
<b>LC/MS/MS <i>m/z</i> (M-)</b>	313,02
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,88 (s, 1H, CH), 7,84 (s, 1H, arom.), 7,71 (d, <i>J</i> = 7,86 Hz, 1H, arom.), 7,62 (d, <i>J</i> = 7,68 Hz, 1H, arom.), 7,52 (t, <i>J</i> = 7,89 Hz, 1H, arom.), 5,94 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,50; 163,54; 135,30; 133,40; 133,50; 131,48; 131,45; 128,66; 122,55; 122,04.

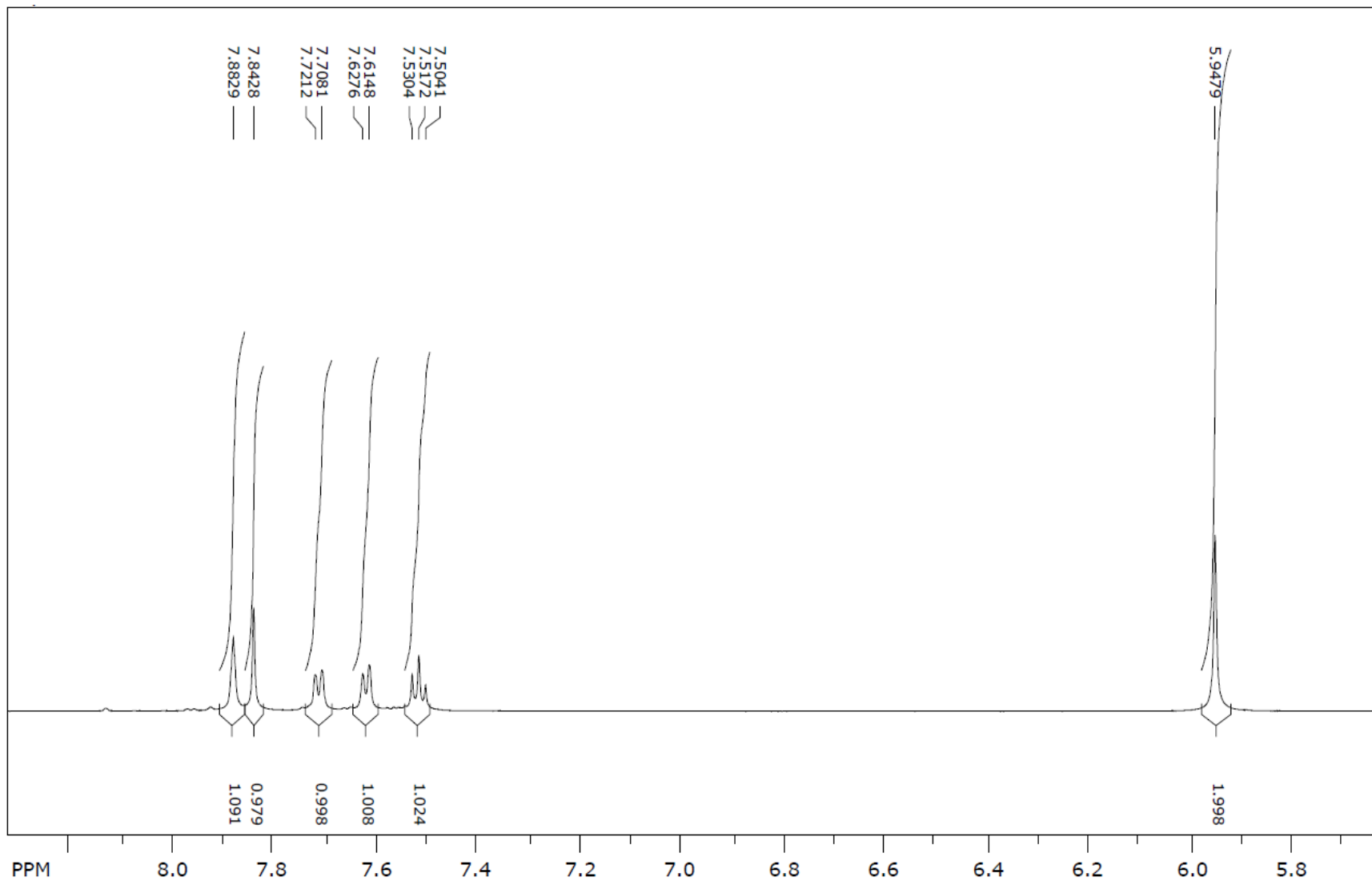
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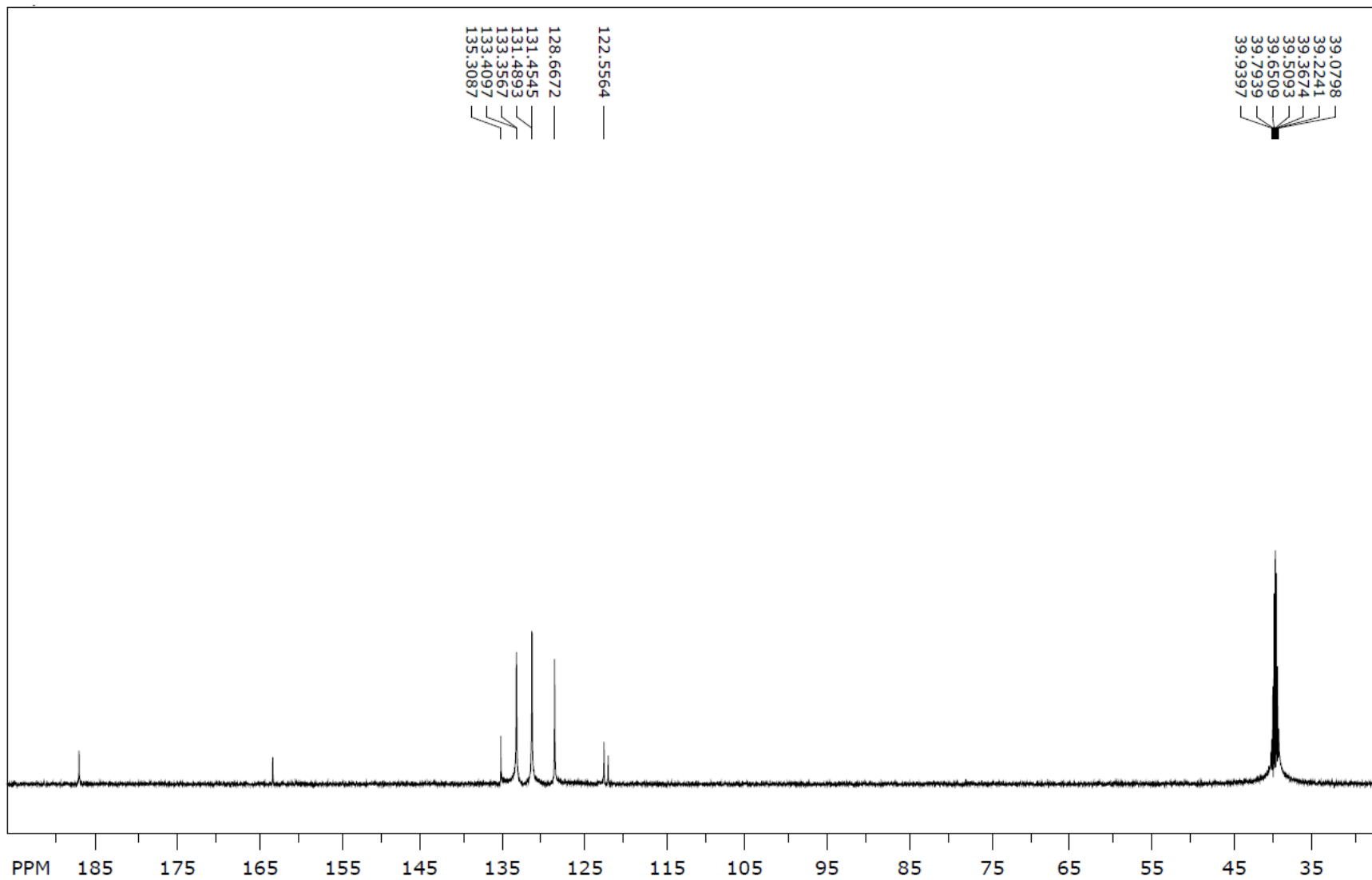
# Maseni spektar (7I)



<sup>1</sup>H NMR spektr (7I)



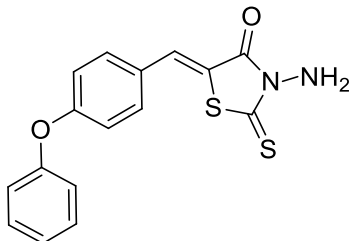
<sup>13</sup>C NMR spektr (7I)



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**3-amino-5-(4-fenoksibenziliden)-2-tioksotiazolidin-4-on (7m)**

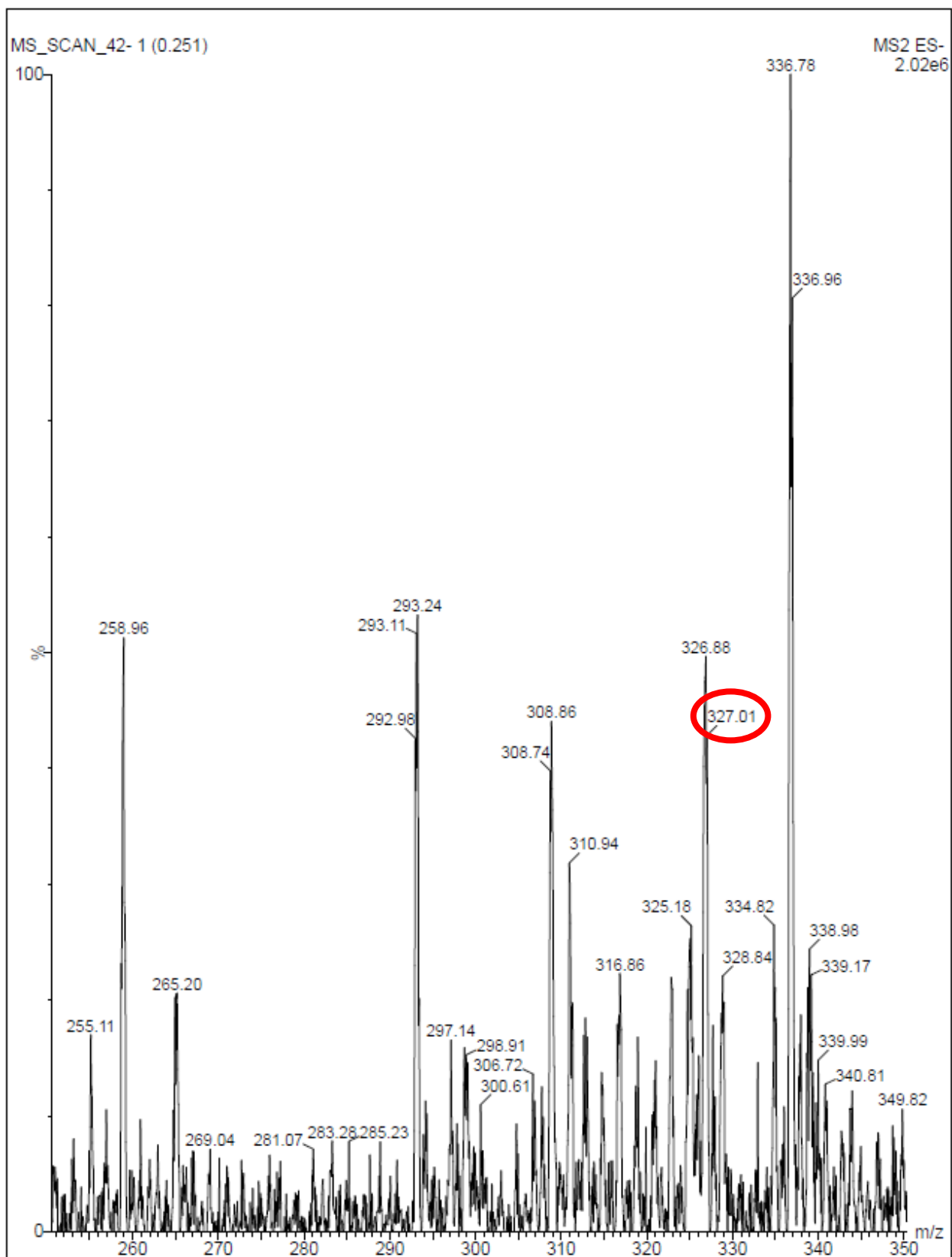
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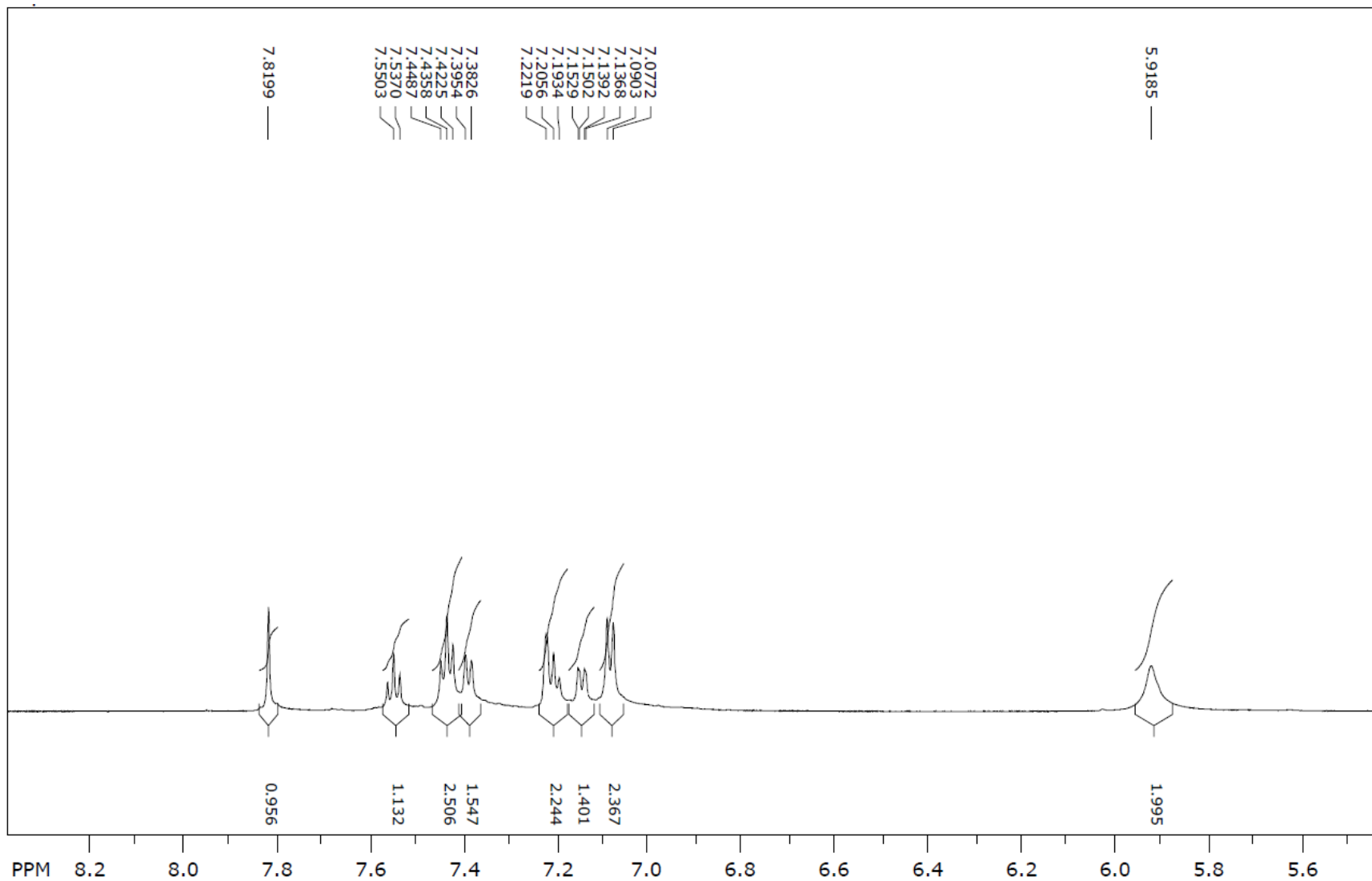
<b>Reaktanti</b>	3-fenoksialdehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	328,41 g/mol
<b>Molekulska formula</b>	C <sub>16</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	111 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,86; 0,80
<b>LC/MS/MS <i>m/z</i> (M-)</b>	327,01
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,82 (s, 1H, CH), 7,55 (t, <i>J</i> = 7,92 Hz, 1H, arom.), 7,44 (t, <i>J</i> = 7,86 Hz, 2H, arom.), 7,39 (d, <i>J</i> = 7,68 Hz, 1H, arom.), 7,21 (t, <i>J</i> = 9,78; 7,32 Hz, 2H, arom.), 7,14 (dd, <i>J</i> = 8,22; 1,53 Hz, 1H, arom.), 7,08 (d, <i>J</i> = 7,86 Hz, 2H, arom.), 5,91 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,49; 163,55; 157,60; 155,74; 134,77; 132,53; 131,19; 130,22; 125,27; 124,17; 121,20; 120,65; 119,58; 119,22.

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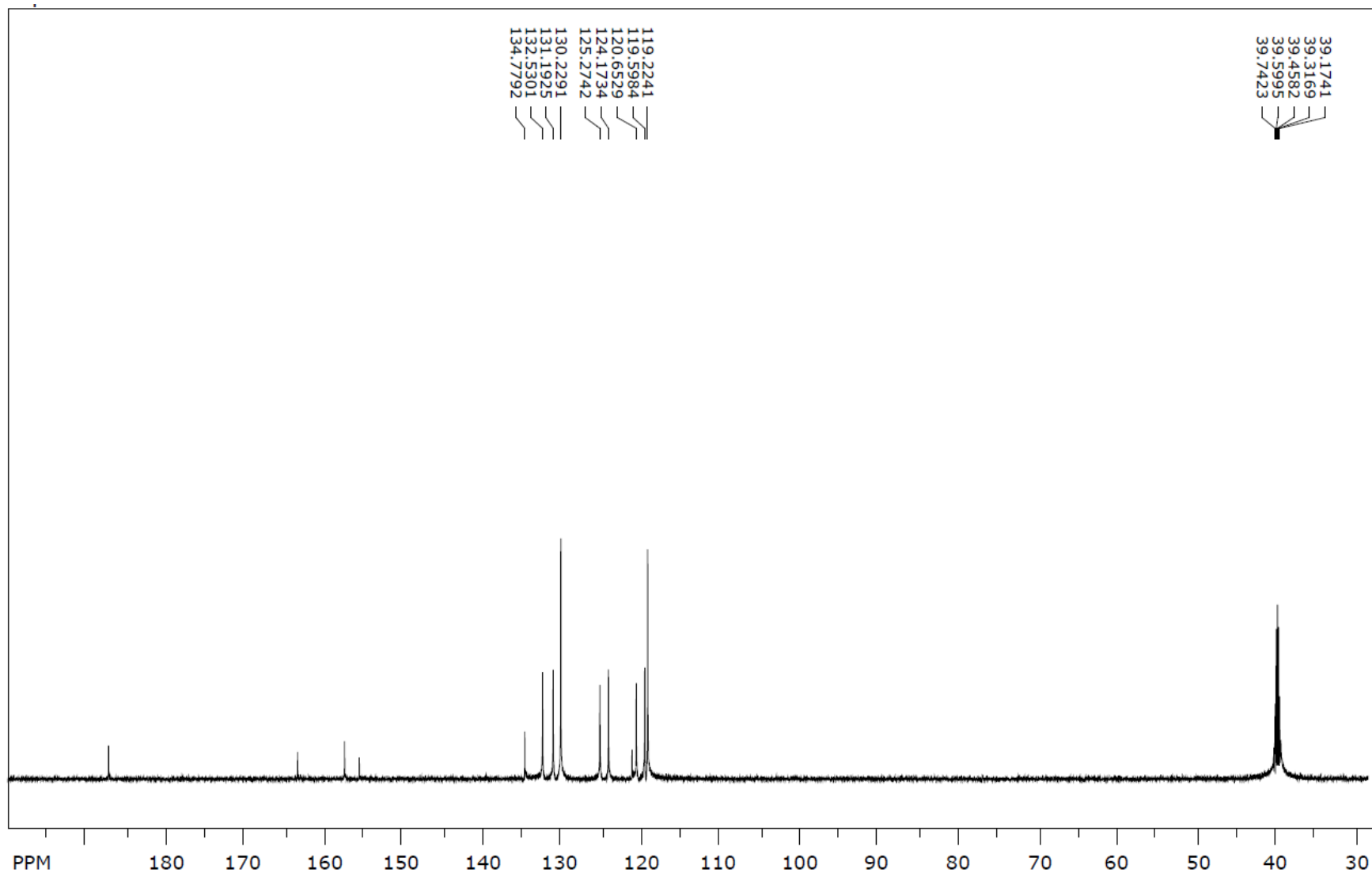
# Maseni spektar (7m)



**<sup>1</sup>H NMR spektr (7m)**



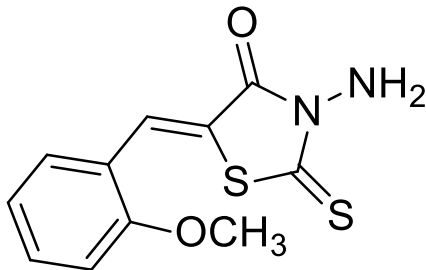
**<sup>13</sup>C NMR spektr (7m)**



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**3-amino-5-(2-metoksibenziliden)-2-tioksotiazolidin-4-on (7n)**

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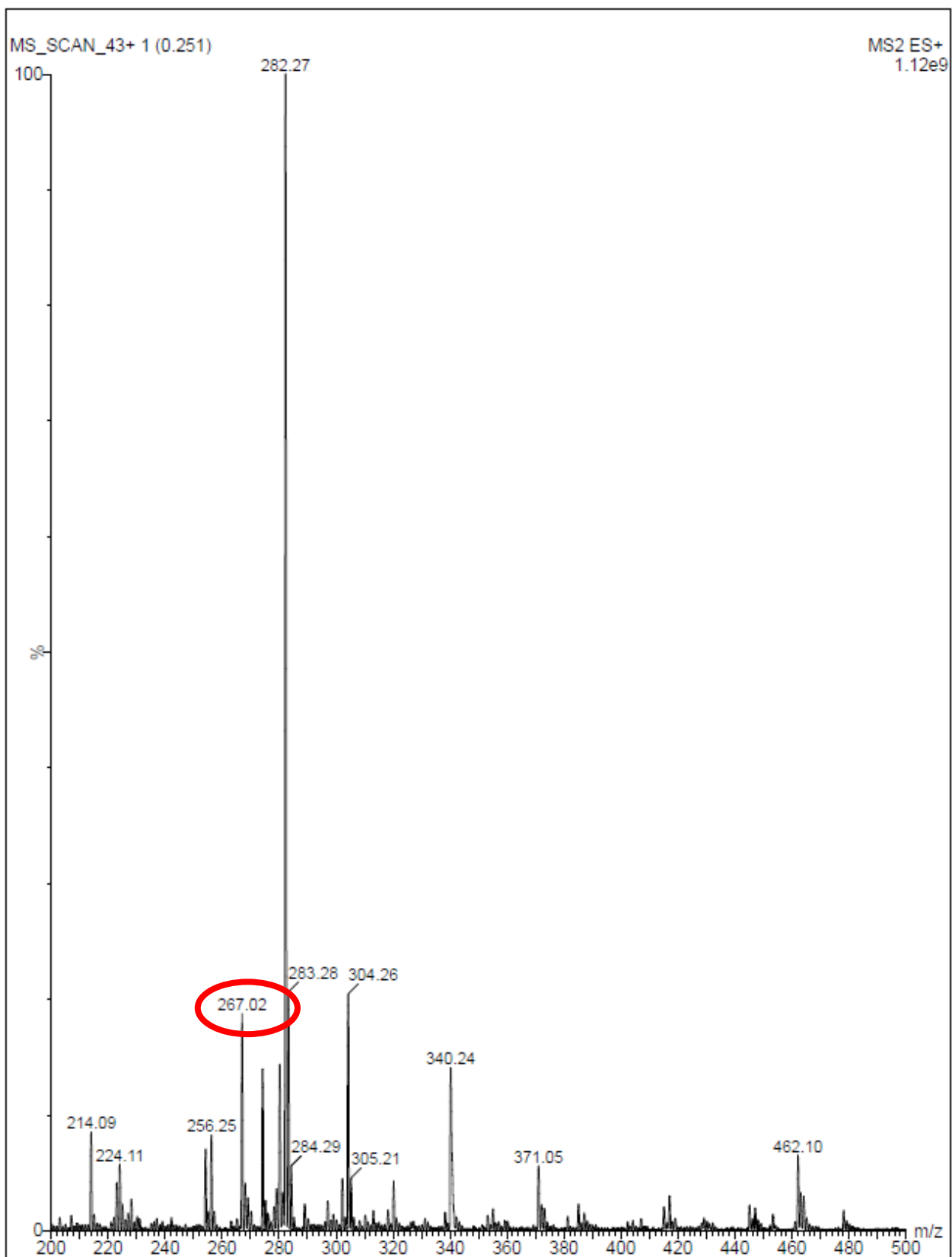
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<b>Reaktanti</b>	2-metoksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	266,34 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	181 – 184 °C
<b>Boja kristala</b>	Žuto-smeđa
<b>R<sub>f</sub></b>	0,83; 0,78
<b>LC/MS/MS <i>m/z</i> (M<sup>+</sup>)</b>	267,02
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,97 (s, 1H, CH), 7,53 (t, <i>J</i> = 7,80 Hz, 1H, arom.), 7,47 (d, <i>J</i> = 7,62 Hz, 1H, arom.), 7,18 (d, <i>J</i> = 8,34 Hz, 1H, arom.), 7,12 (t, <i>J</i> = 7,47 Hz, 1H, arom.), 5,93 (s, 2H, NH <sub>2</sub> ), 3,92 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 188,13; 163,81; 158,13; 133,31; 130,22; 128,55; 121,25; 120,13; 112,06; 55,78.

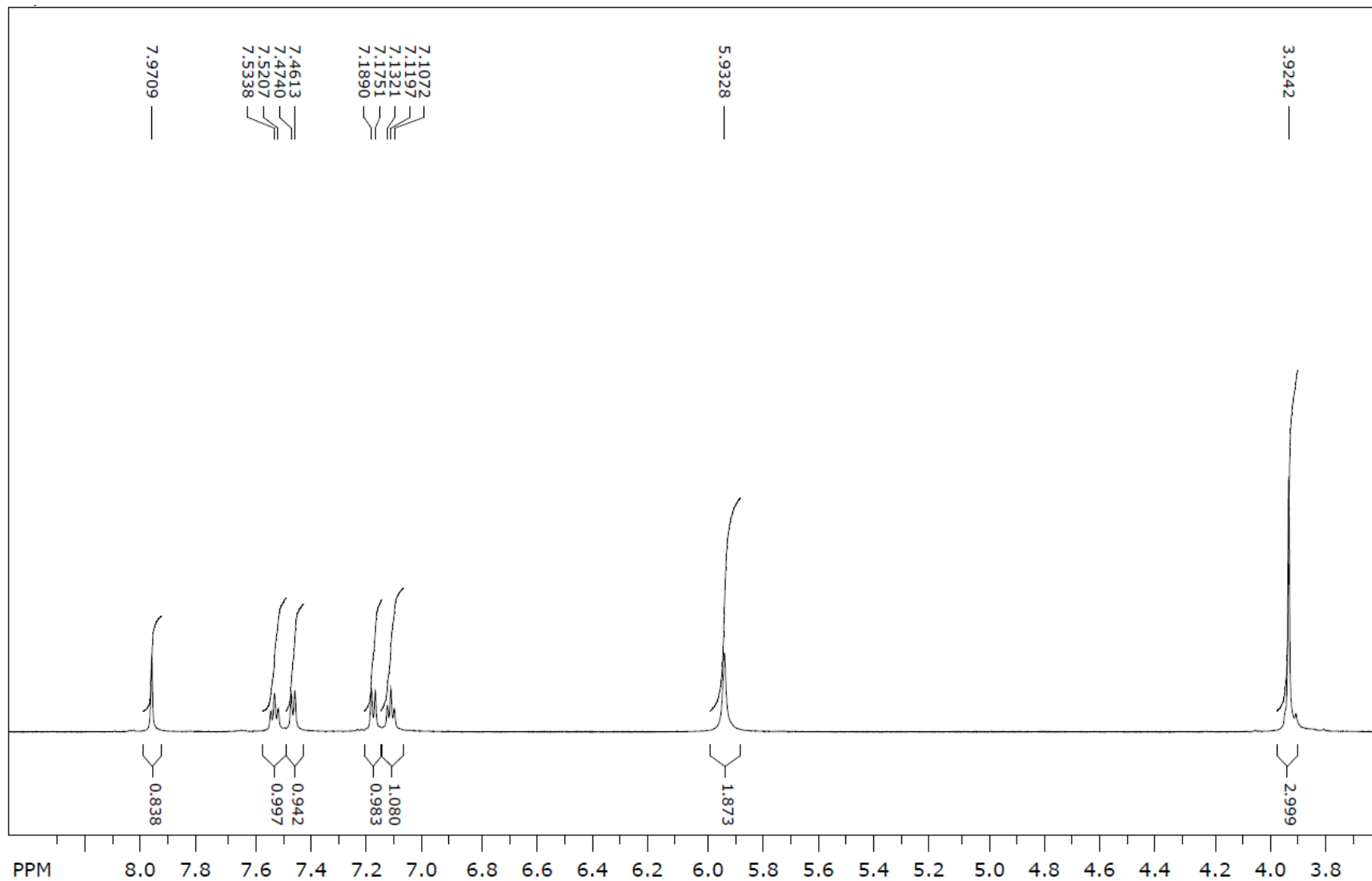
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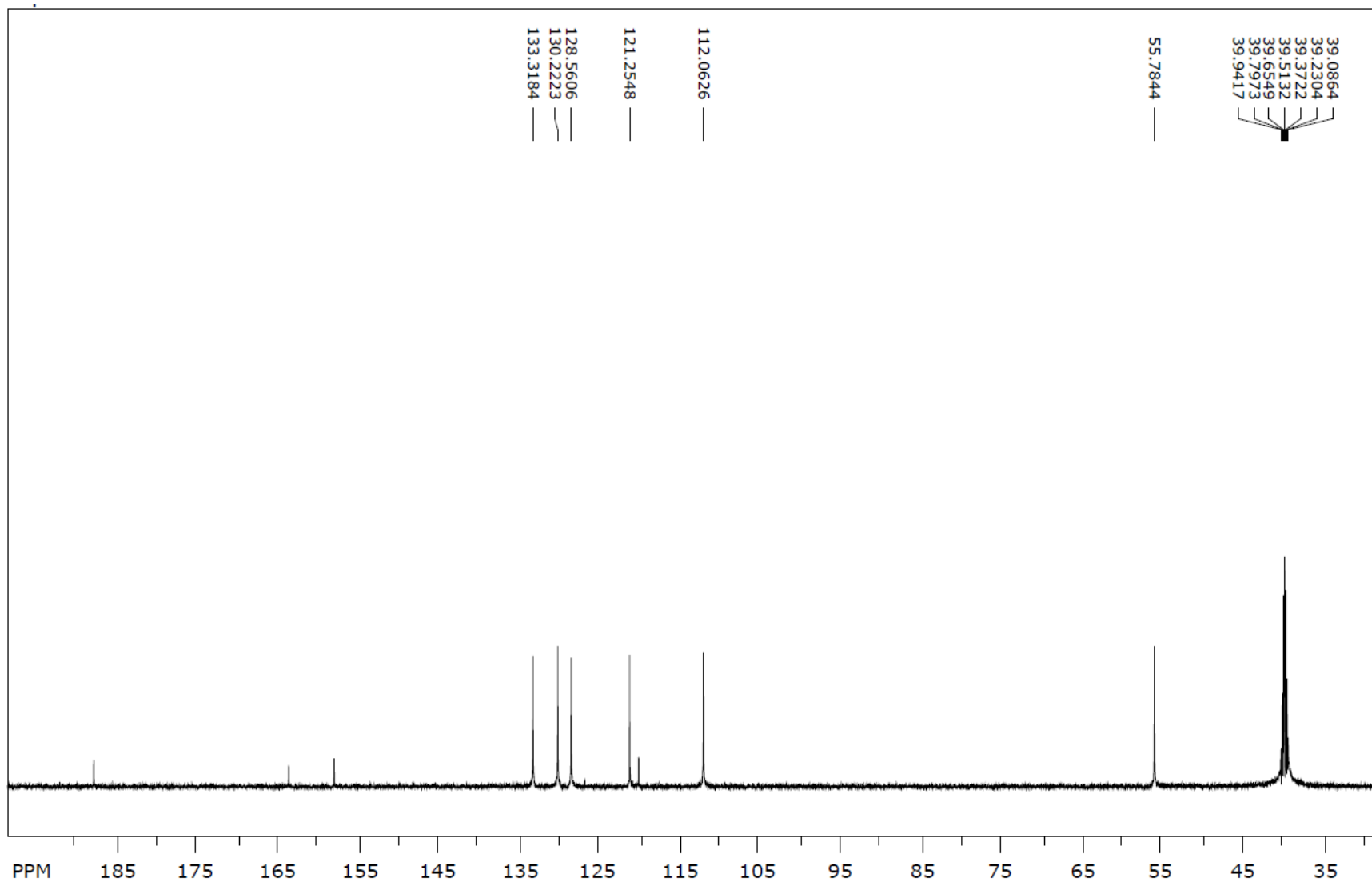
# Maseni spektr (7n)



**<sup>1</sup>H NMR spektr (7n)**



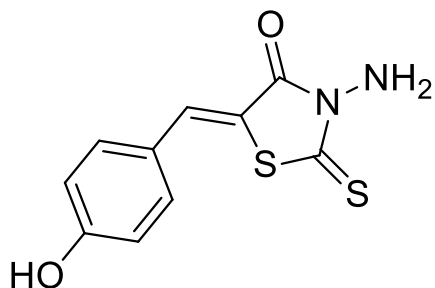
**<sup>13</sup>C NMR spektr (7n)**



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**3-amino-5-(4-hidroksibenziliden)-2-tioksotiazolidin-4-on (7o)**

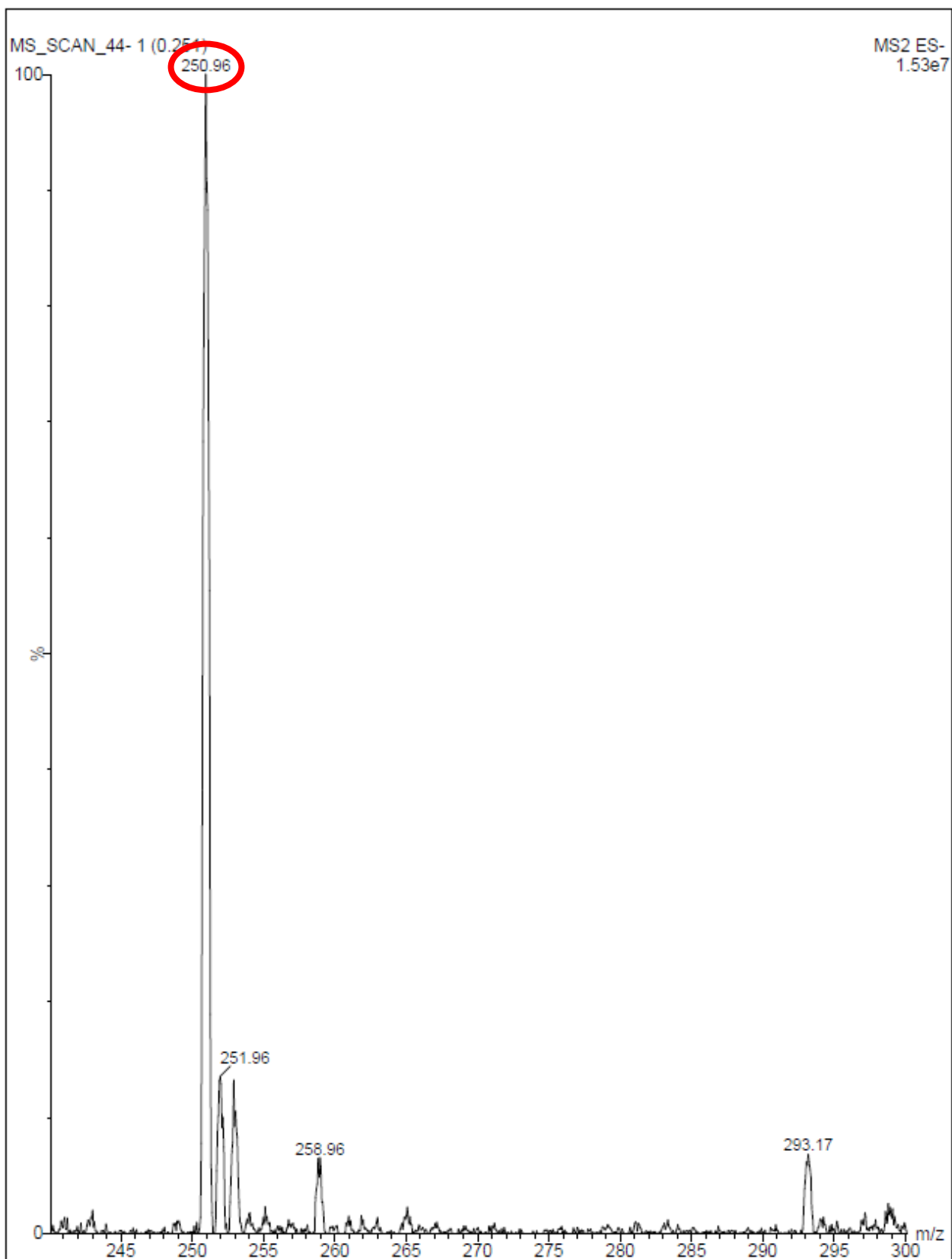
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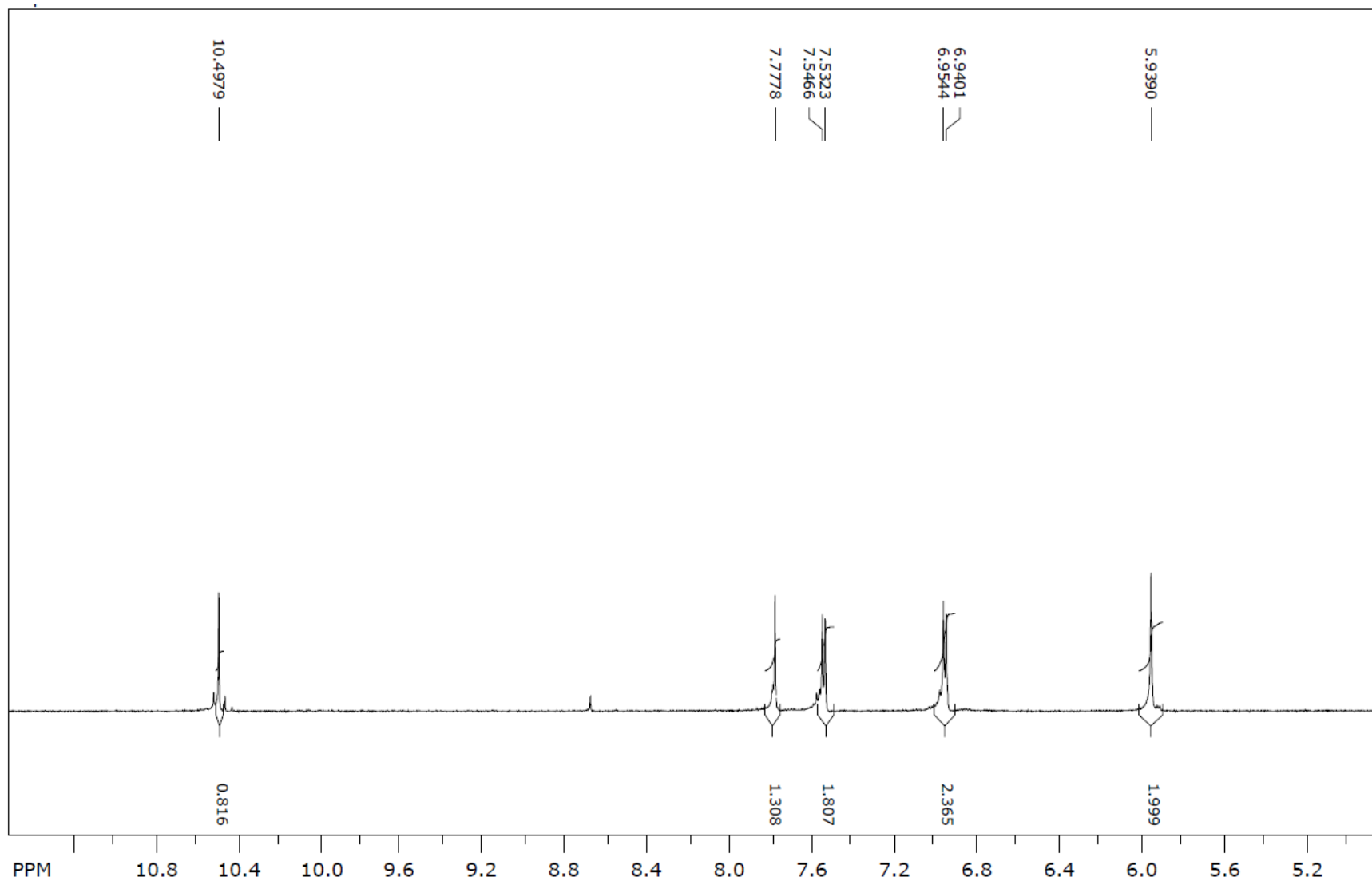
<b>Reaktanti</b>	4-hidroksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	252,31 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	262 – 264 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,66; 0,54
<b>LC/MS/MS <i>m/z</i> (M-)</b>	250,56
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,49 (s, 1H, OH), 7,77 (s, 1H, CH), 7,54 (d, <i>J</i> = 8,58 Hz, 2H, arom.), 6,95 (d, <i>J</i> = 8,58 Hz, 2H, arom.), 5,93 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,09; 163,77; 160,65; 134,13; 133,42; 124,03; 116,59; 115,54.

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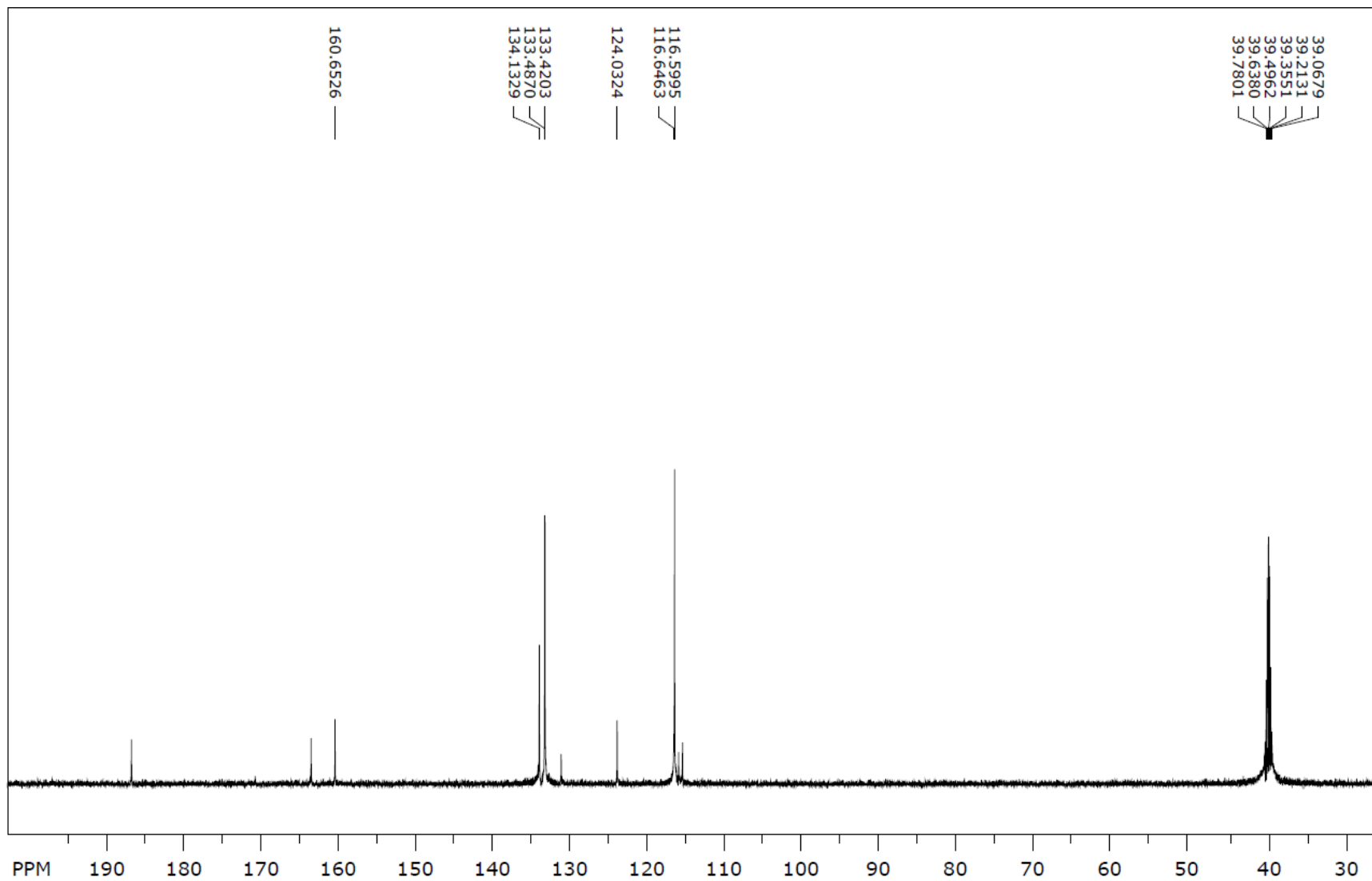
# Maseni spektar (7o)



**<sup>1</sup>H NMR spektr (7o)**



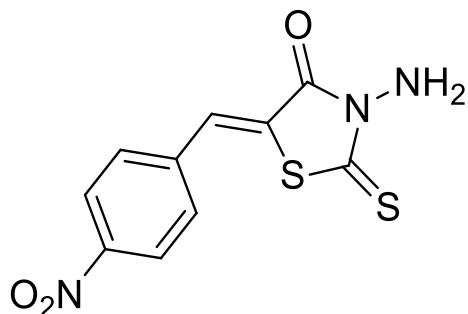
**<sup>13</sup>C NMR spektr (7o)**



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**3-amino-5-(4-nitrobenziliden)-2-tioksotiazolidin-4-on (7p)**

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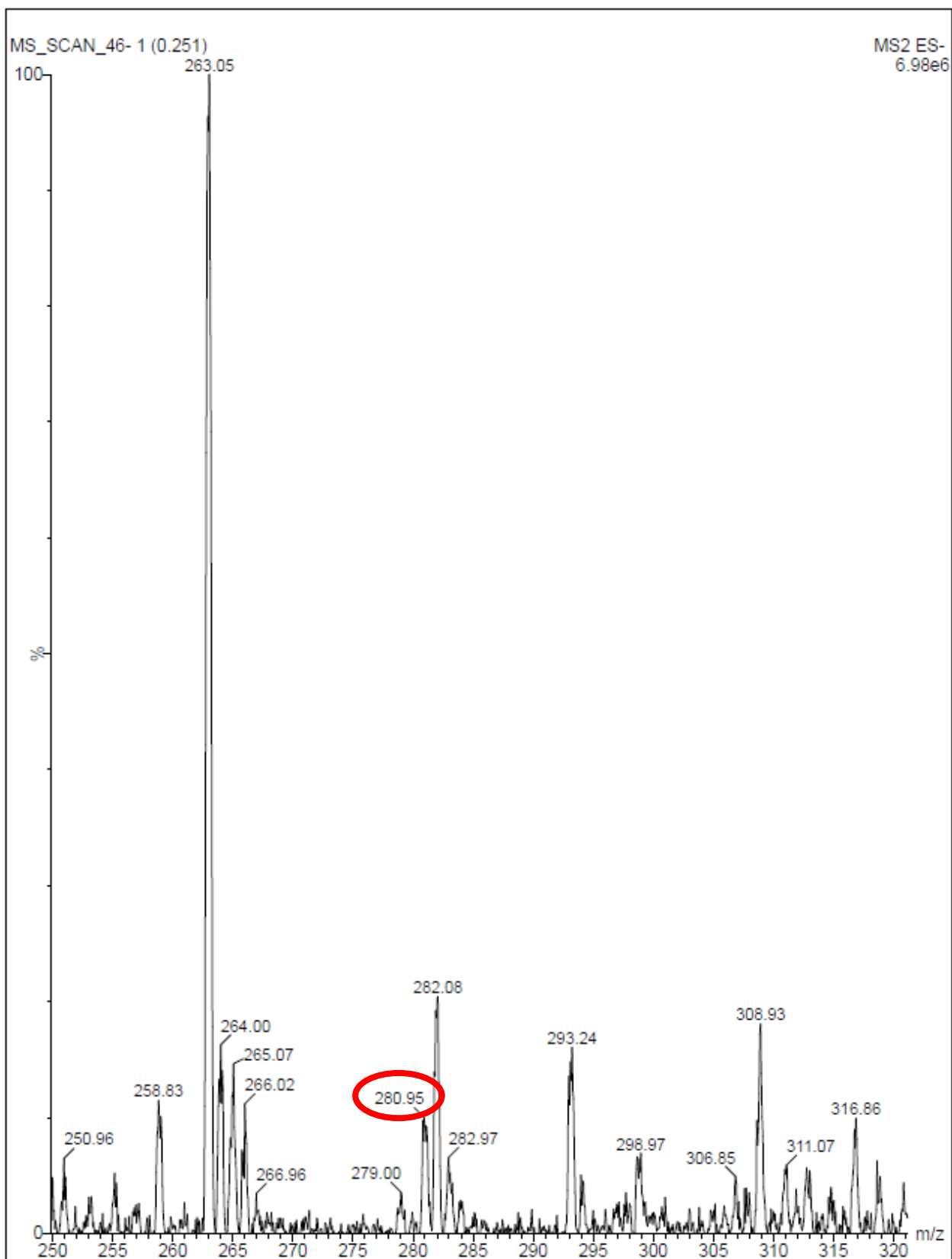
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<b>Reaktanti</b>	4-nitrobenzalhid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	281,31 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> N <sub>3</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	234 – 238 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,84; 0,74
<b>LC/MS/MS m/z (M-)</b>	280,95
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,32 (d, <i>J</i> = 8,64 Hz, 2H, arom.), 7,92 (s, 1H, CH), 7,88 (d, <i>J</i> = 8,64 Hz, 2H, arom.), 5,94 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,48; 163,53; 147,61; 139,02; 131,51; 130,25; 124,64; 124,33.

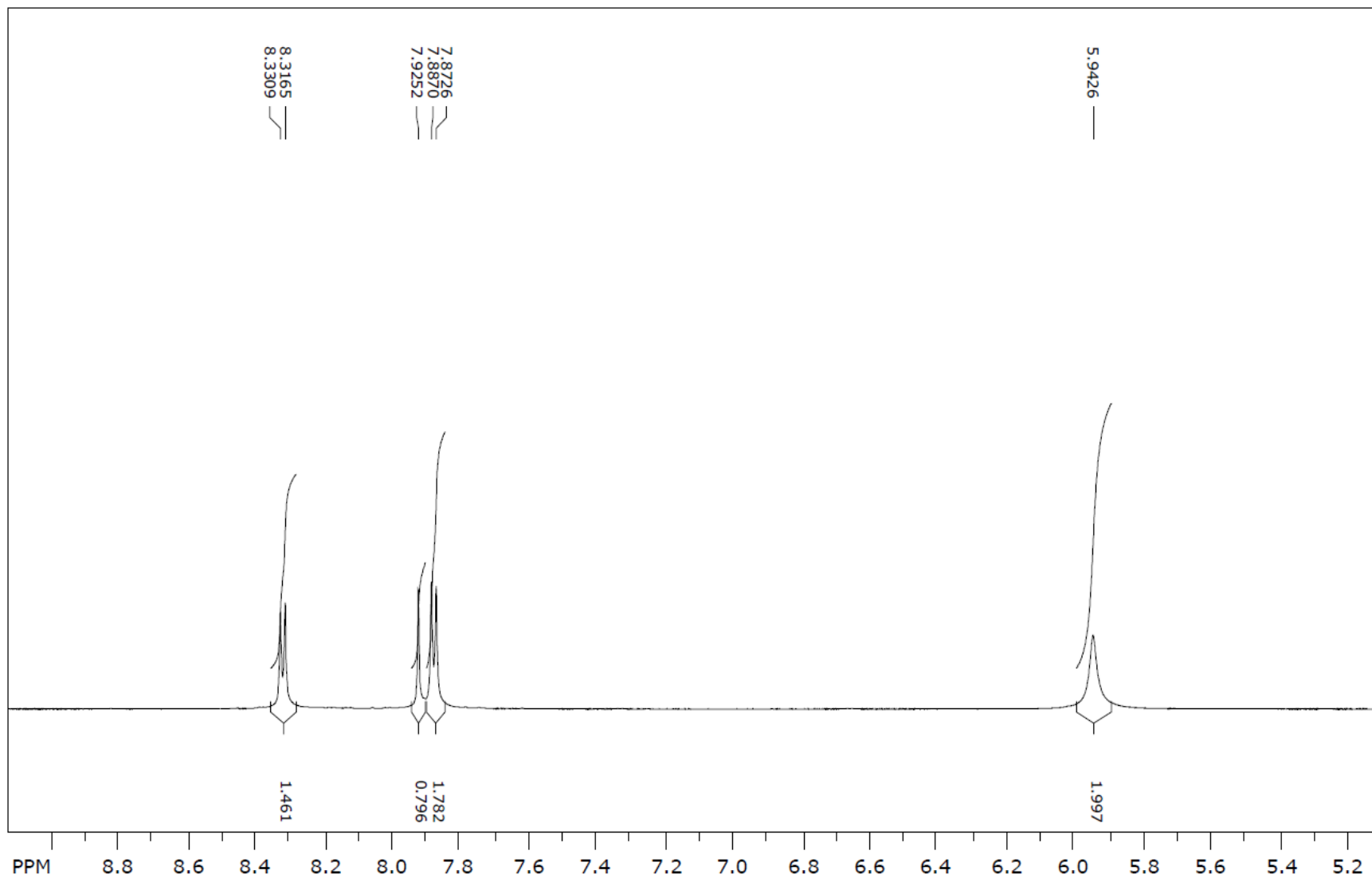
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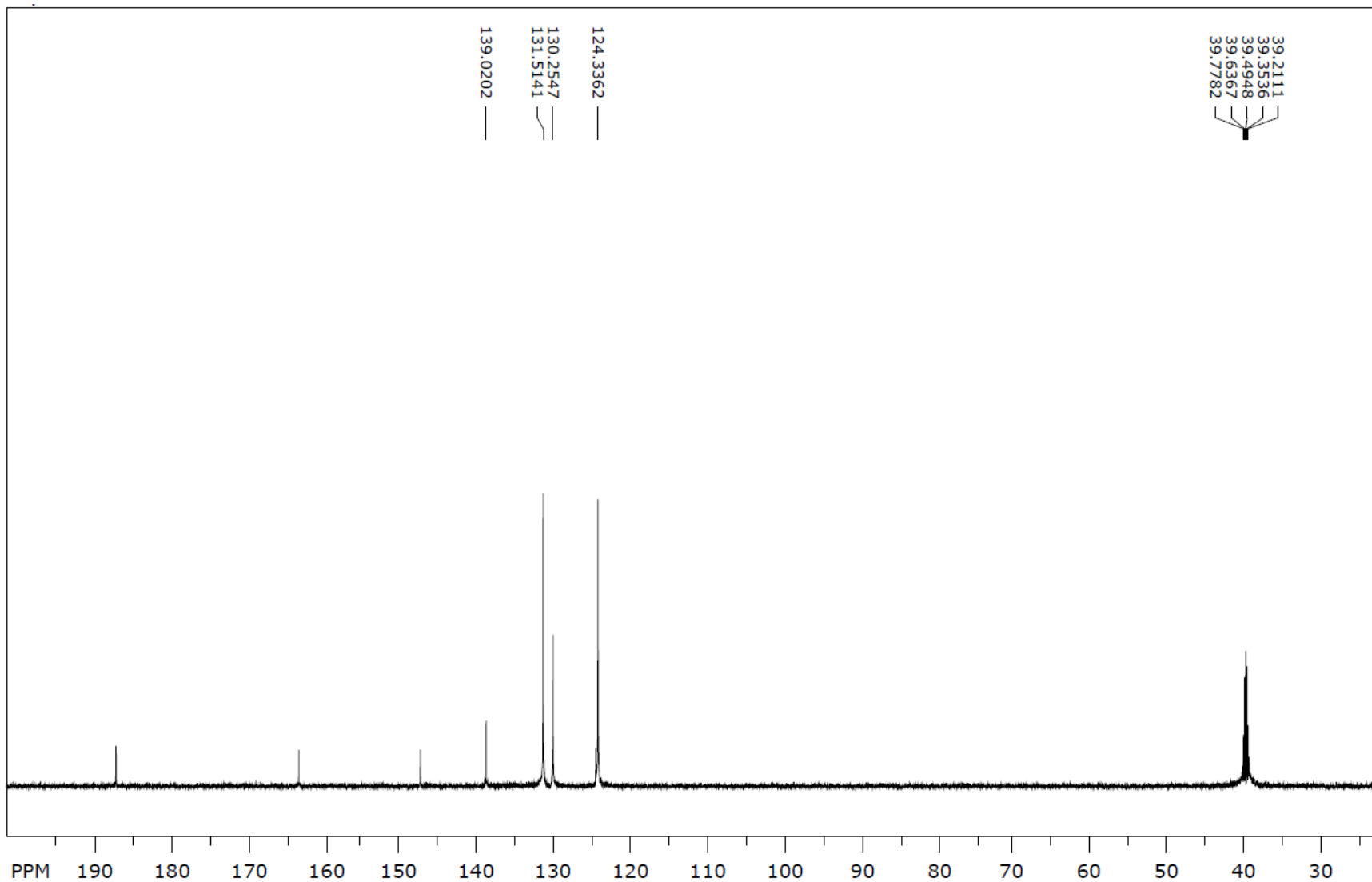
# Masni spektar (7p)



**<sup>1</sup>H NMR spektr (7p)**



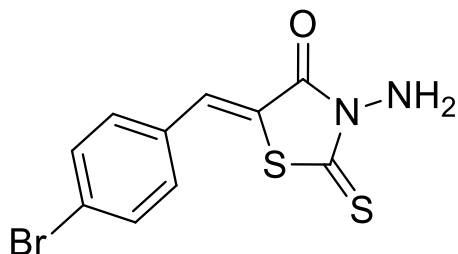
**<sup>13</sup>C NMR spektr (7p)**



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**3-amino-5-(4-brombenziliden)-2-tioksotiazolidin-4-on (7q)**

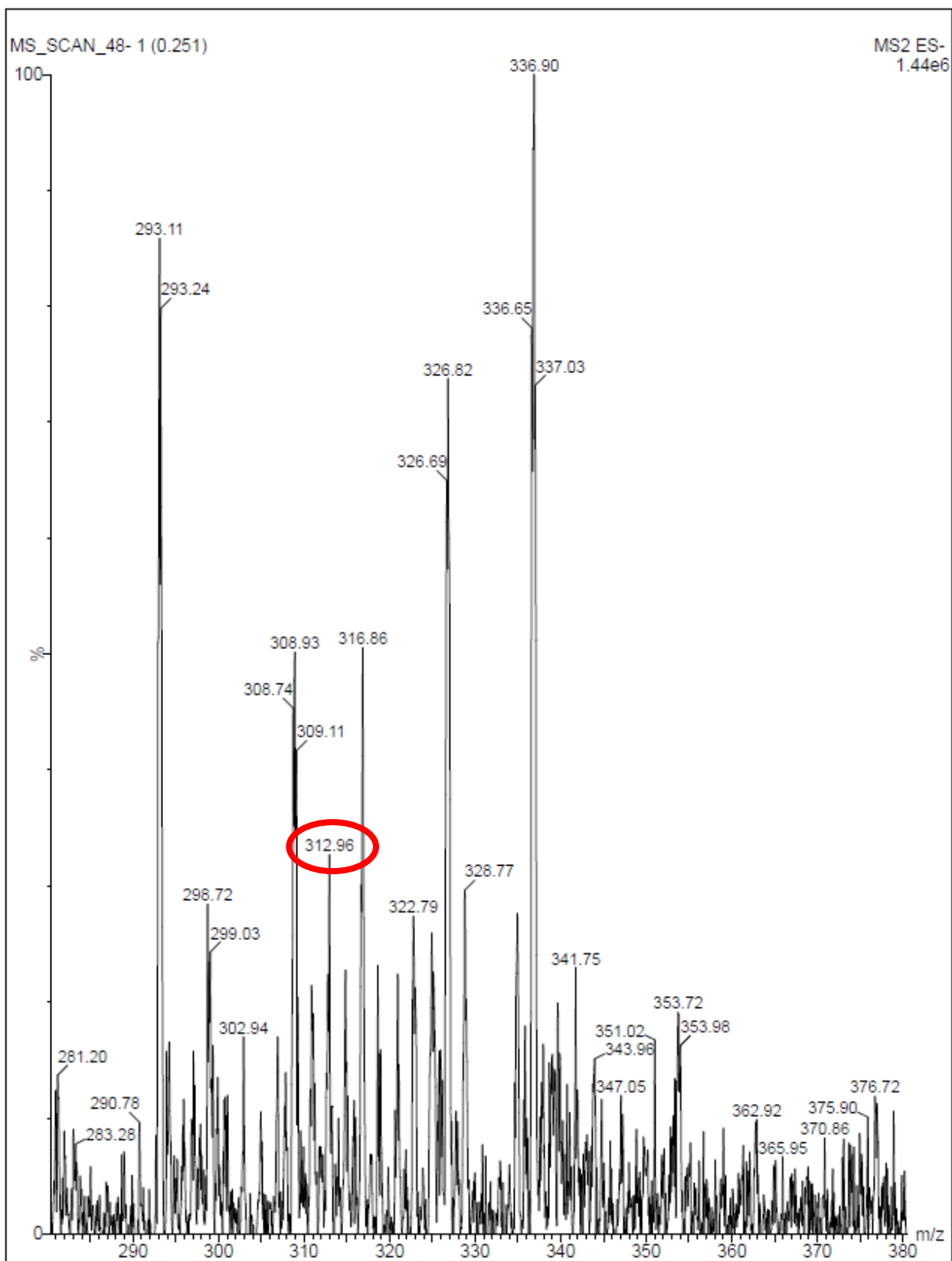
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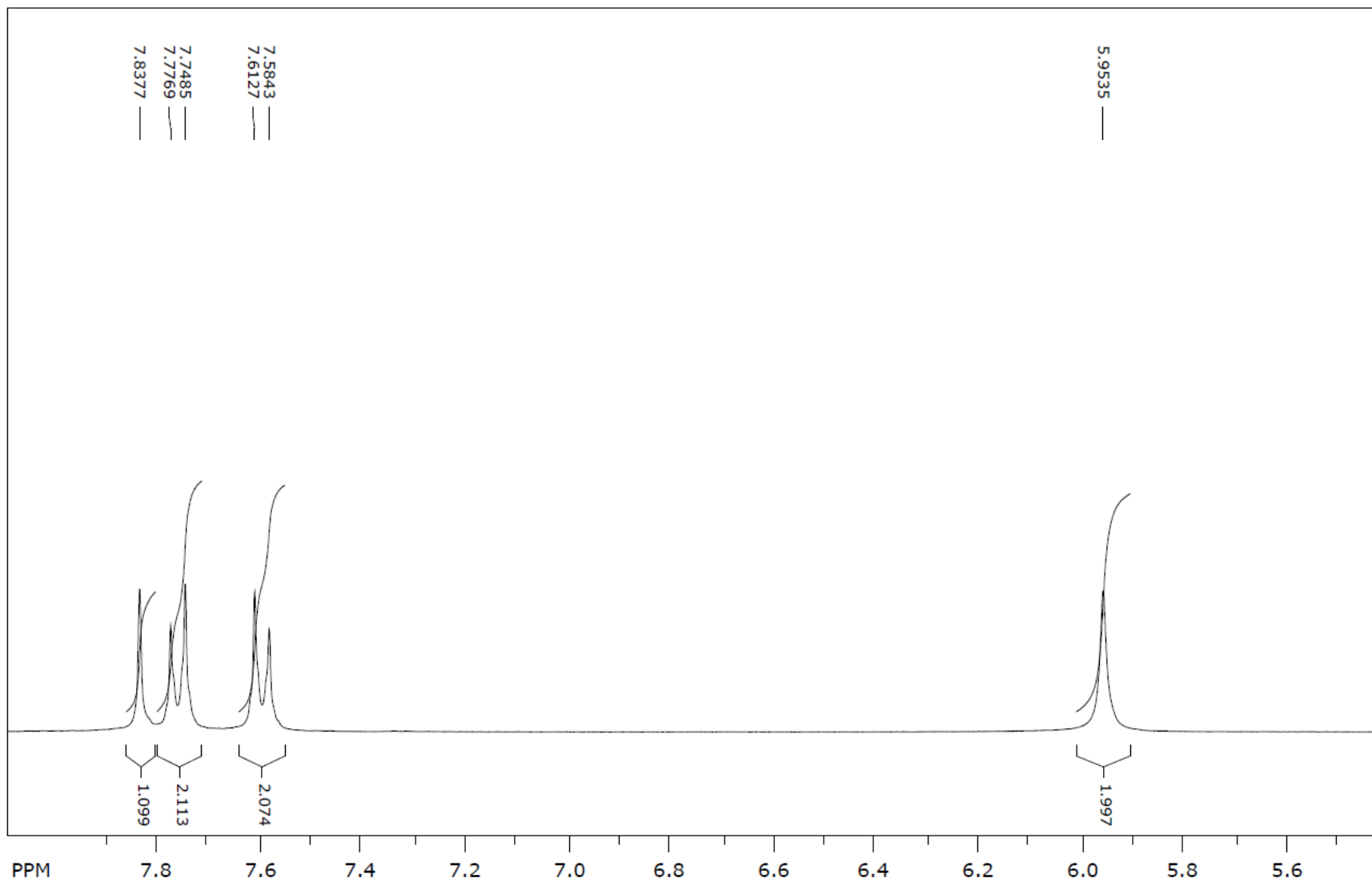
<b>Reaktanti</b>	4-brombenzalhid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	315,21 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> BrN <sub>2</sub> OS <sub>2</sub>
<b>Temperatura tališta</b>	227 – 229 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,85; 0,79
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	312,96
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,83 (s, 1H, CH), 7,76 (d, <i>J</i> = 8,52 Hz, 2H, arom.), 7,60 (d, <i>J</i> = 8,52 Hz, 2H, arom.), 5,95 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,95; 164,15; 132,98; 132,91; 132,46; 125,13; 121,58.

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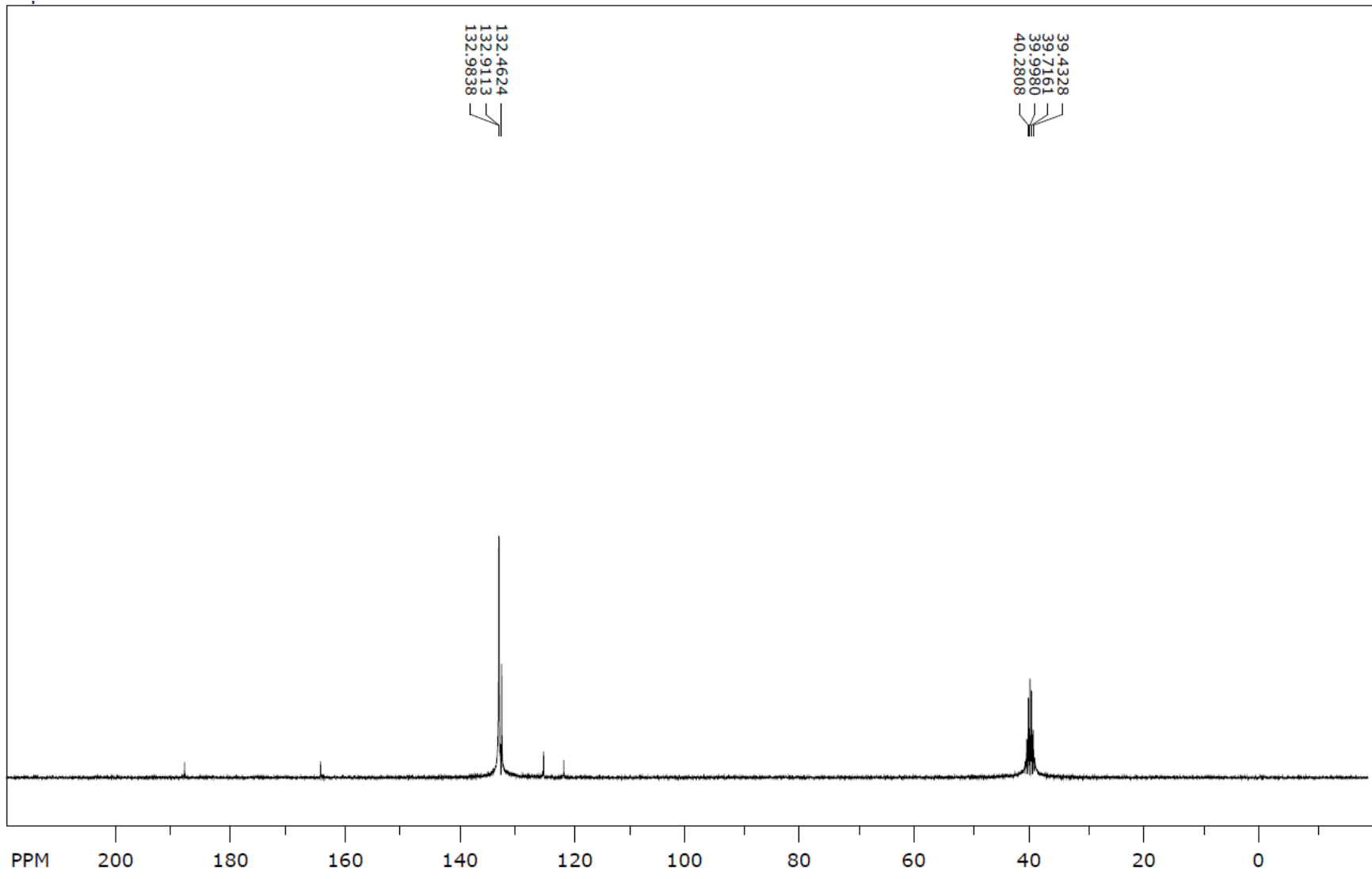
# Maseni spektar (7q)



**<sup>1</sup>H NMR spektr (7q)**



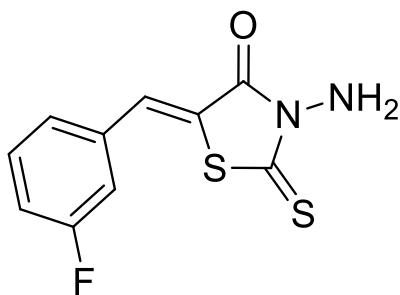
**<sup>13</sup>C NMR spektr (7q)**



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**3-amino-5-(3-fluorbenziliden)-2-tioksotiazolidin-4-on (7r)**

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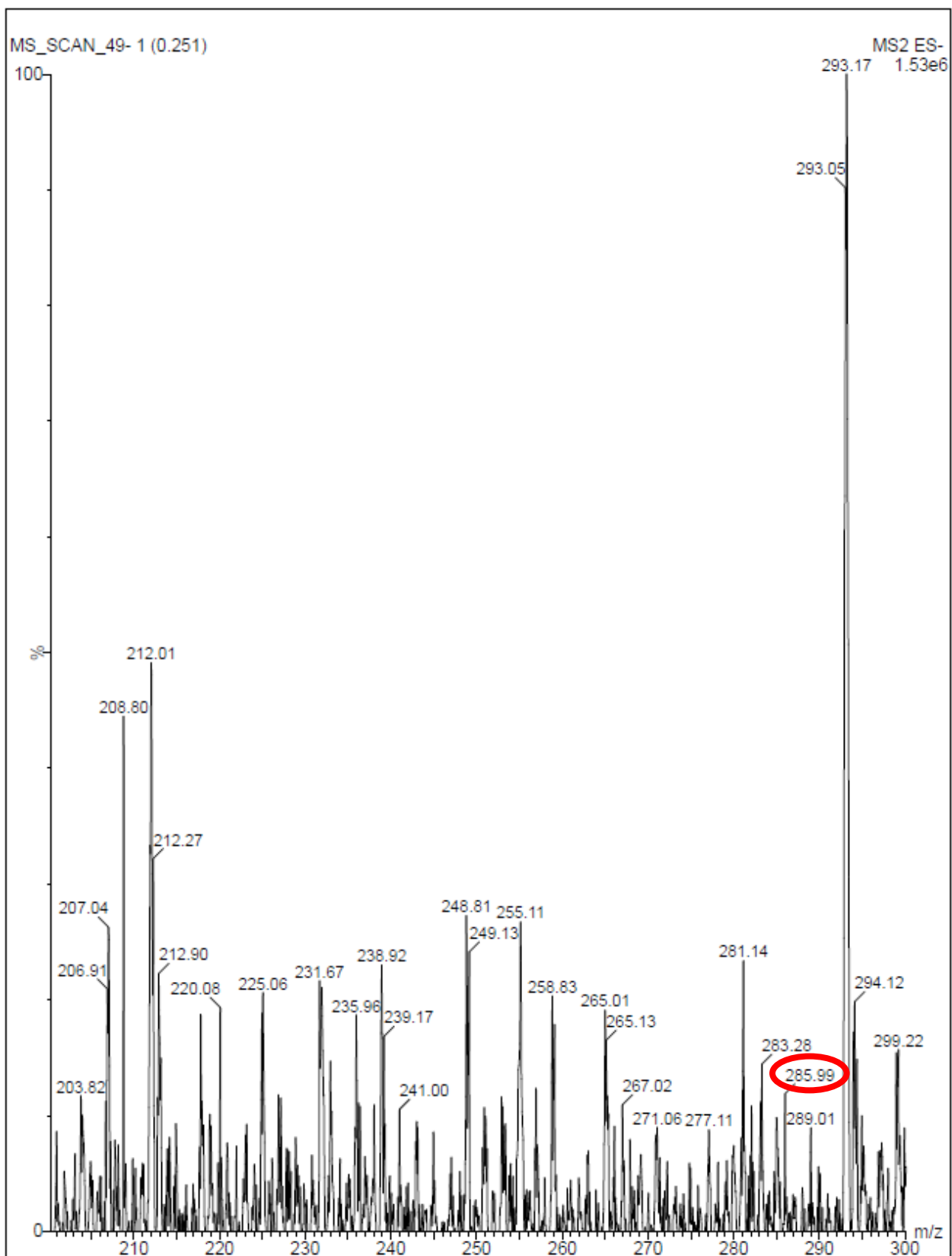
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<b>Reaktanti</b>	3-fluorbenzalhid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročiščavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	254,30 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> FN <sub>2</sub> OS <sub>2</sub>
<b>Temperatura tališta</b>	169 – 171 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,85; 0,76
<b>LC/MS/MS <i>m/z</i> (M-+MeOH)</b>	285,99
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,83 (s, 1H, CH), 7,59 (q, <i>J</i> = 7,83; 6,36 Hz, 1H, arom.), 7,50 (d, <i>J</i> = 9,96 Hz, 1H, arom.), 7,45 (d, <i>J</i> = 7,74 Hz, 1H, arom.), 7,36 (ddd, <i>J</i> = 2,16; 8,52; 8,28 Hz, 1H, arom.), 5,93 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,58; 131,71; 131,52; 126,13; 126,11; 117; 78; 117,64; 117,42; 117,27.

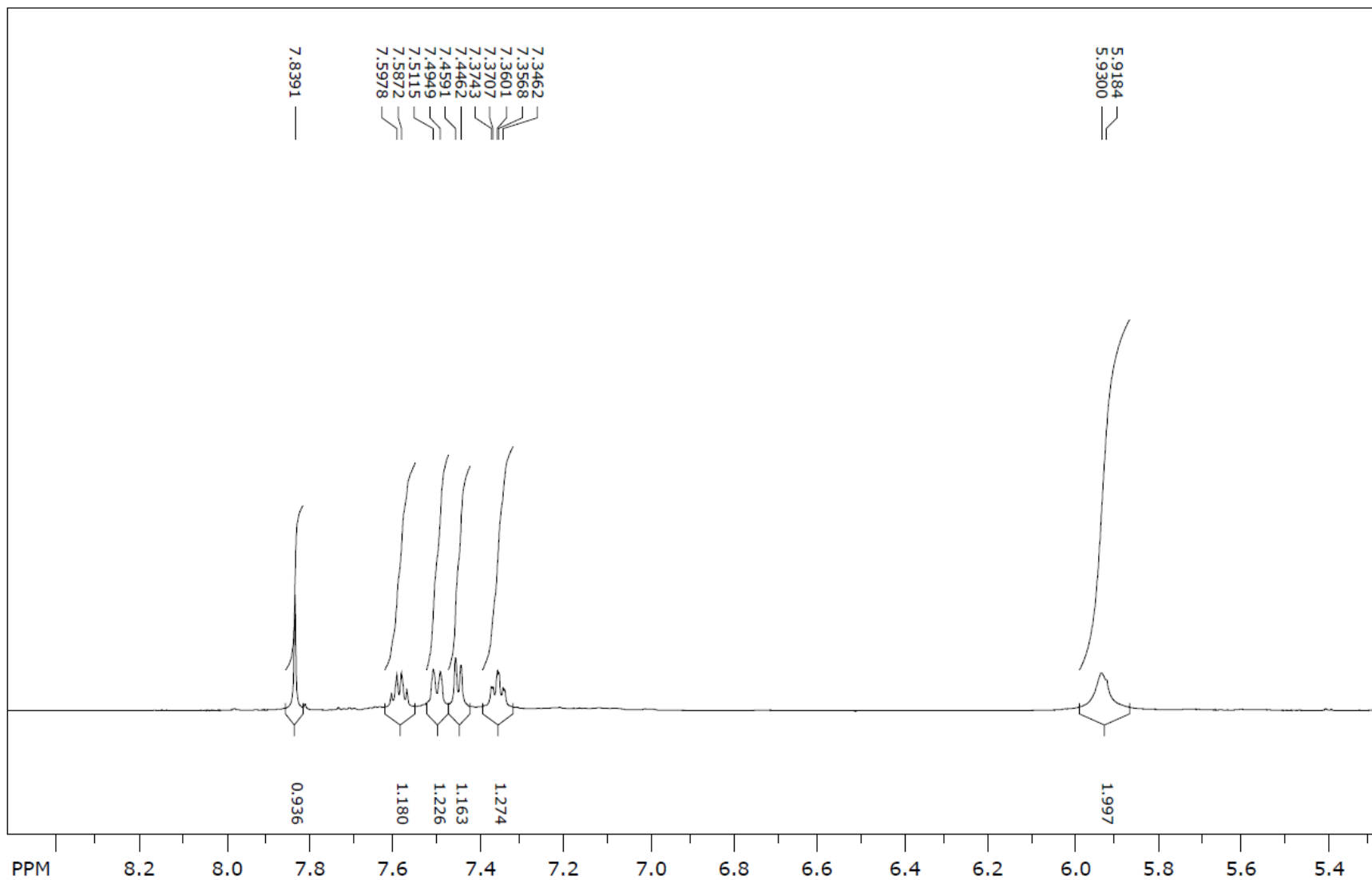
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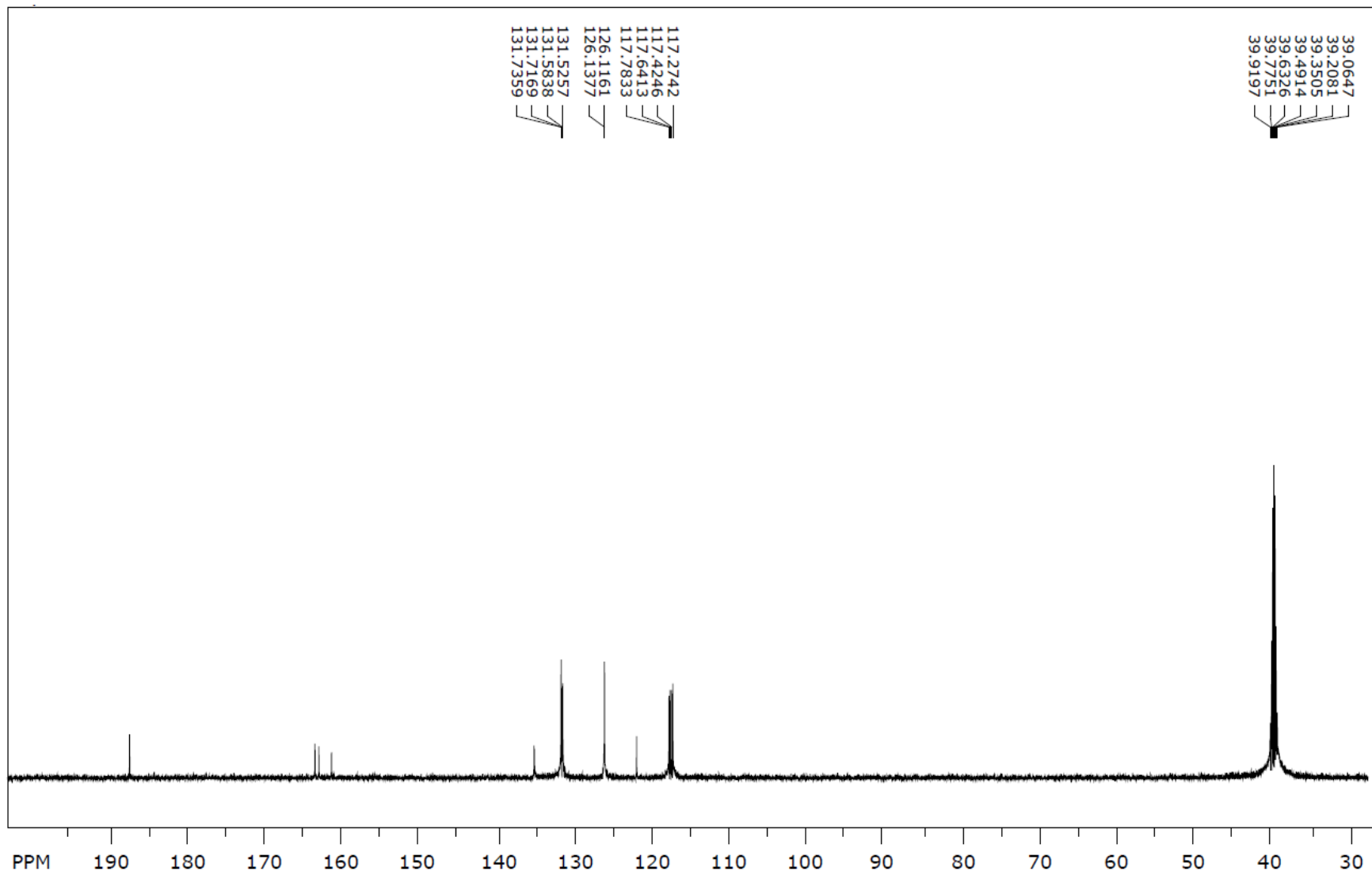
# Maseni spektar (7r)



**<sup>1</sup>H NMR spektr (7r)**



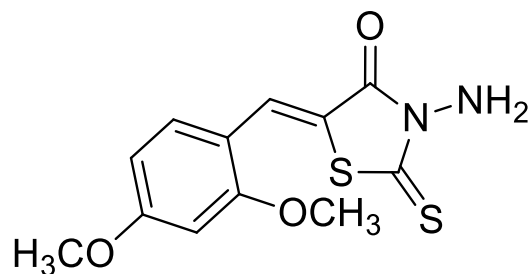
<sup>13</sup>C NMR spektr (7r)



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**3-amino-5-(2,4-dimetoksibenziliden)-2-tioksotiazolidin-4-on (7s)**

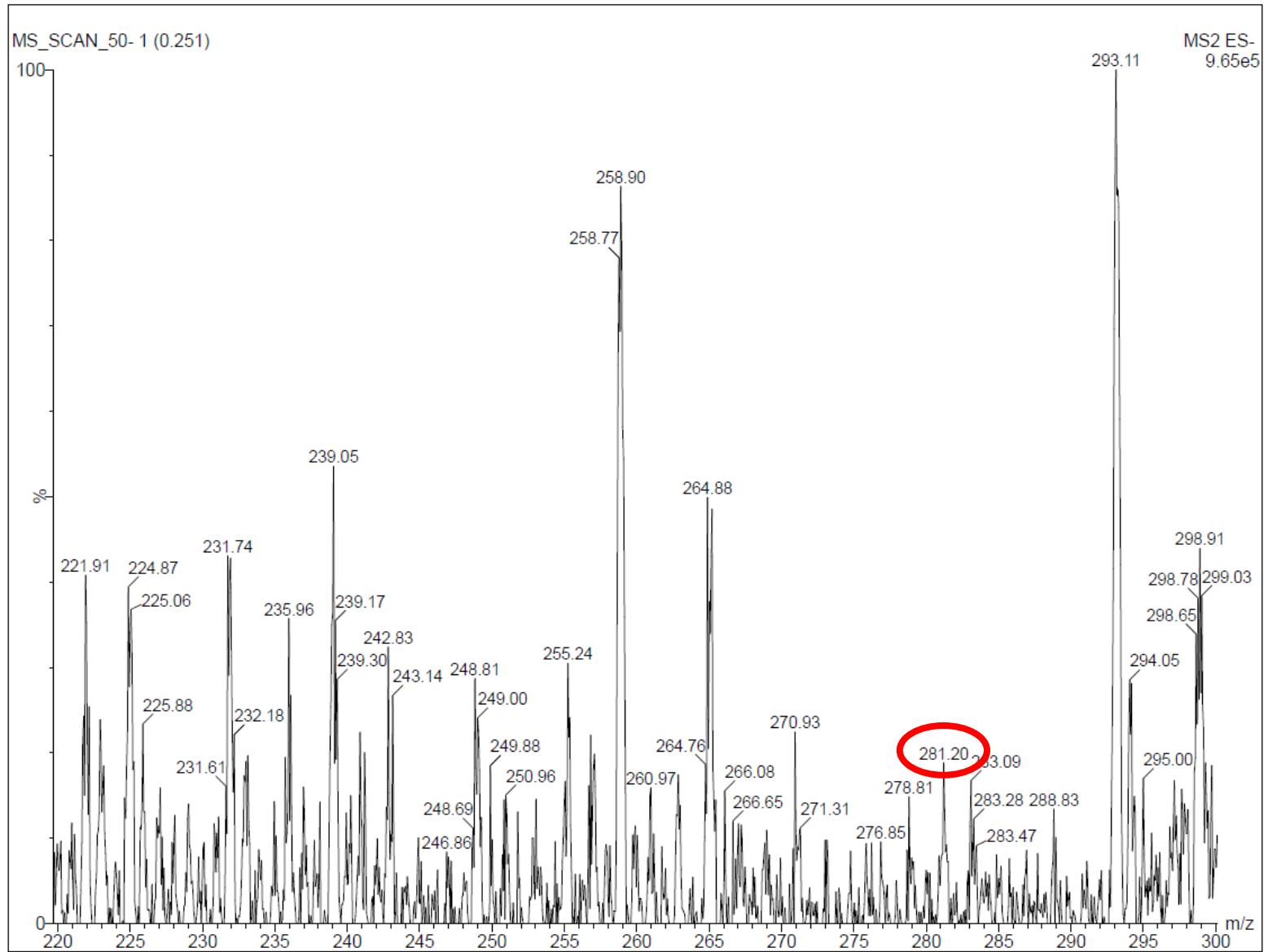
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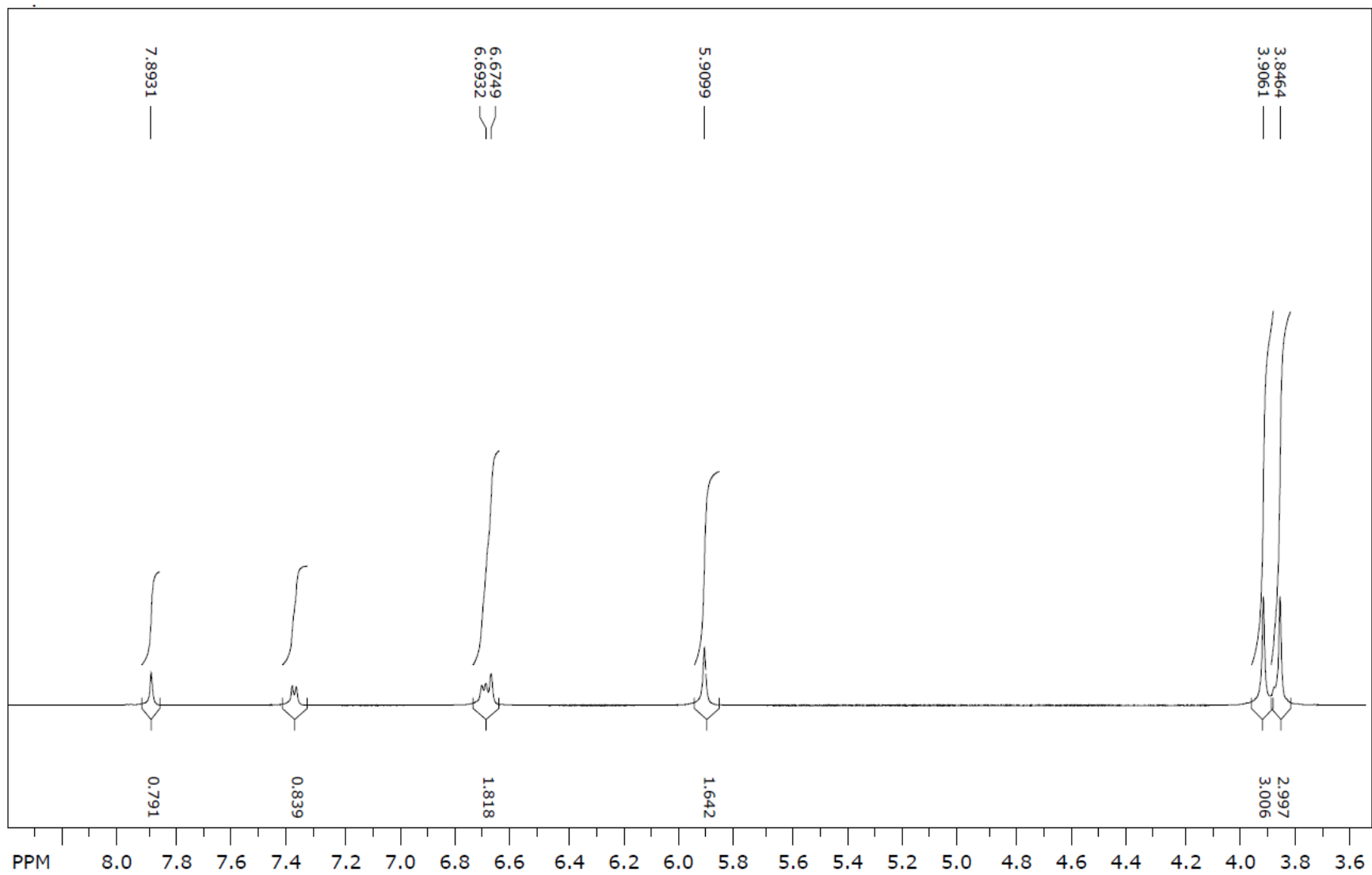
<b>Reaktanti</b>	2,4-dimetoksibenzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	282,34 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	194 – 196 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,80
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	281,20
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,89 (s, 1H, CH), 7,38 (d, <i>J</i> = 8,46 Hz, 1H, arom.), 6,69 (t, <i>J</i> = 8,58; 10,98 Hz, 2H, arom.), 5,90 (s, 2H, NH <sub>2</sub> ), 3,90 (s, 3H, OCH <sub>3</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,51; 163,94; 163,87; 160,09; 132,10; 128,86; 116,28; 114,32; 107,06; 98,61; 55,92; 55,76.

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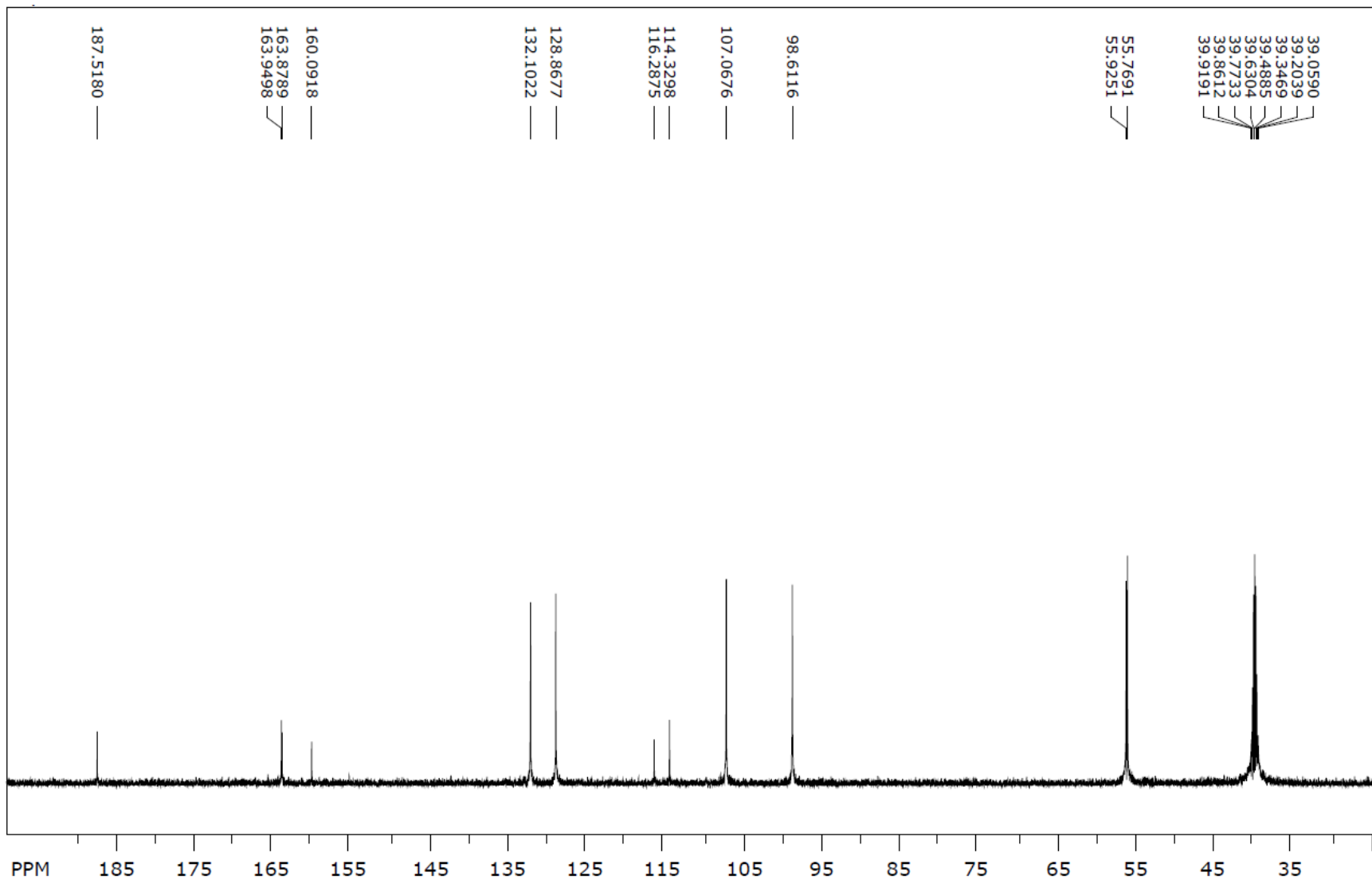
# Maseni spektr (7s)



# <sup>1</sup>H NMR spektr (7s)



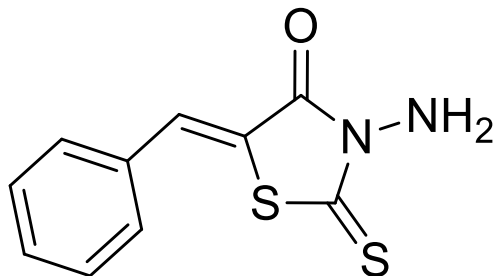
**<sup>13</sup>C NMR spektr (7s)**



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**3-amino-5-benziliden-2-tioksotiazolidin-4-on (7t)**

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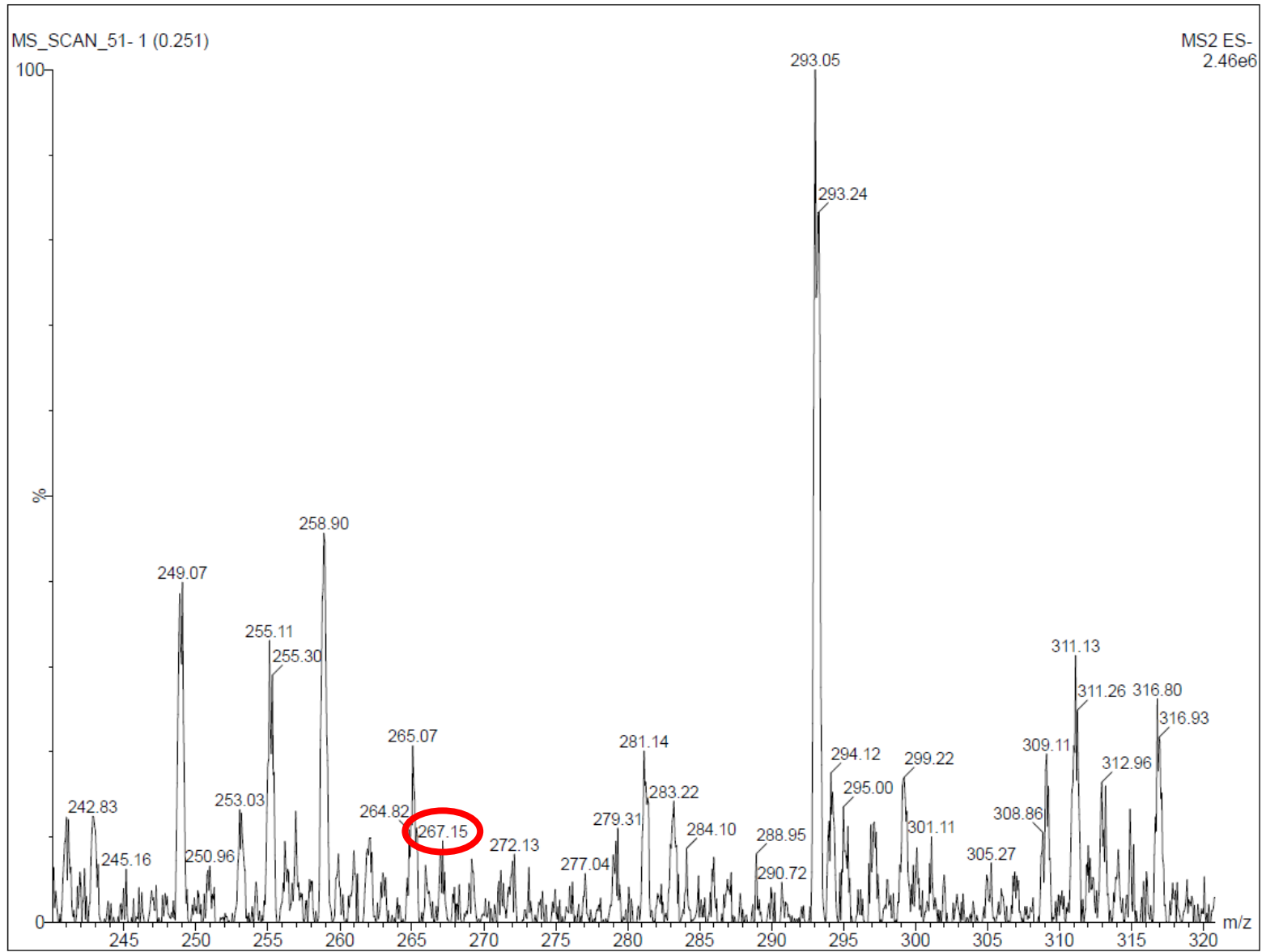


<b>Reaktanti</b>	Benzaldehid (1 mmol) i 3-aminorodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	268,31 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> OS <sub>2</sub>
<b>Temperatura tališta</b>	199 – 201 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,84; 0,78
<b>LC/MS/MS <i>m/z</i> (M-)</b>	267,15
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,84 (s, 1H, CH), 7,64 (d, <i>J</i> = 7,38 Hz, 2H, arom.), 7,51 – 7,56 (m, 3H, arom.), 5,93 (s, 2H, NH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 187,71; 163,68; 133,31; 132,94; 130,99; 130,70; 129,48; 120,26.

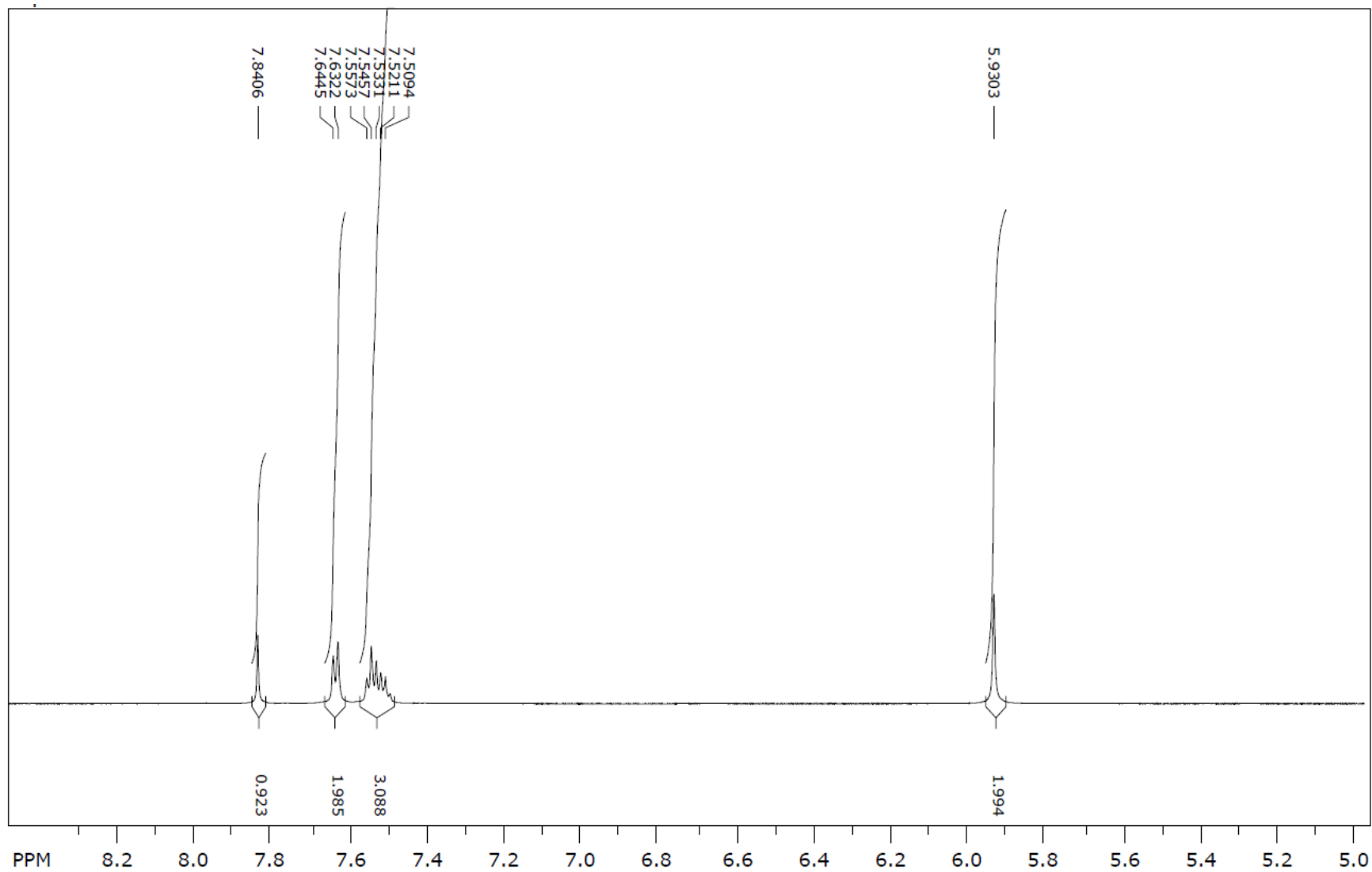
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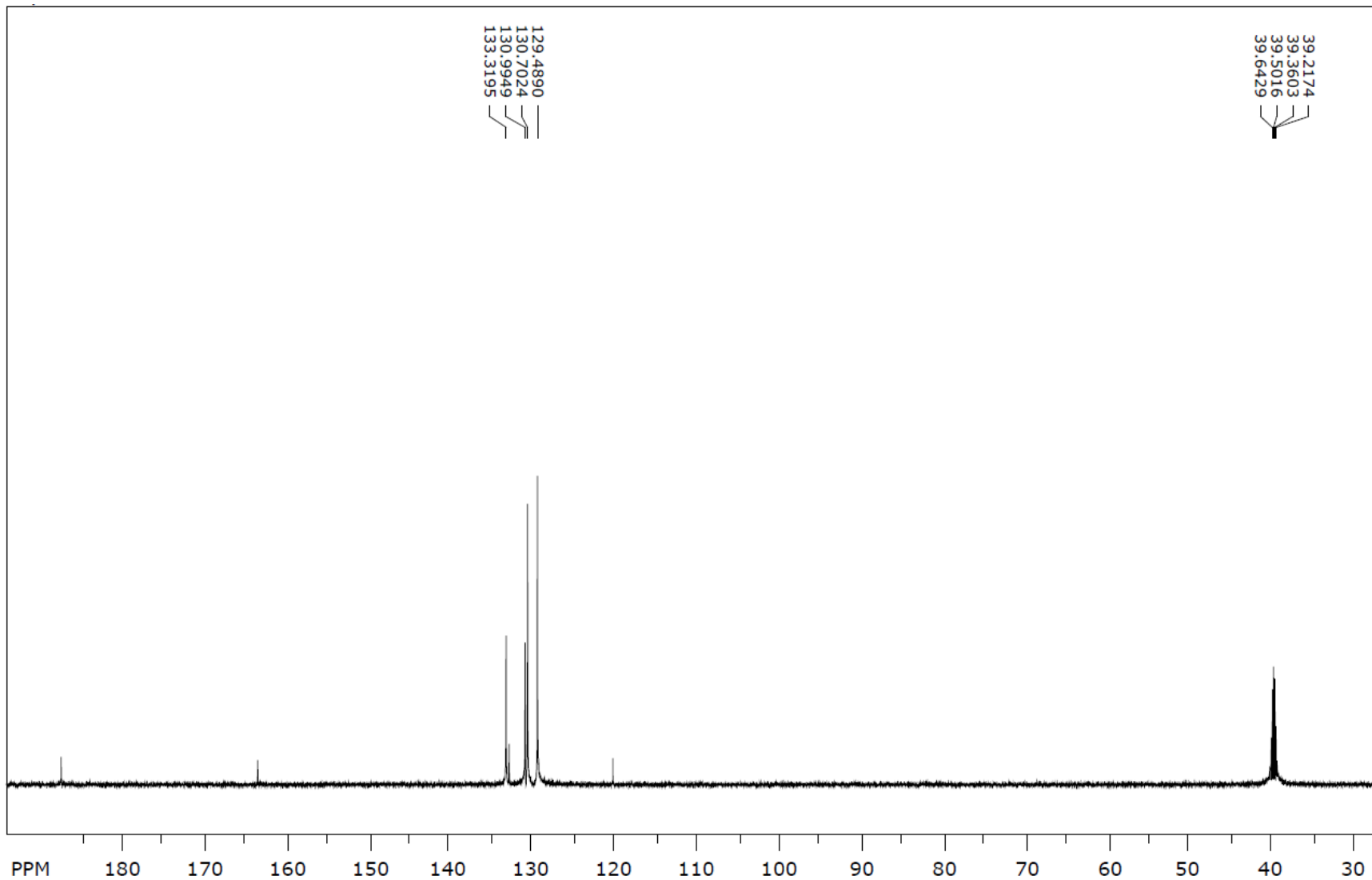
# Maseni spektr (7t)



<sup>1</sup>H NMR spektr (7t)



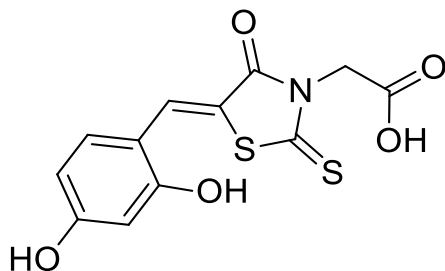
<sup>13</sup>C NMR spektr (7t)



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**2-(5-(2,4-dihidroksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8a)**

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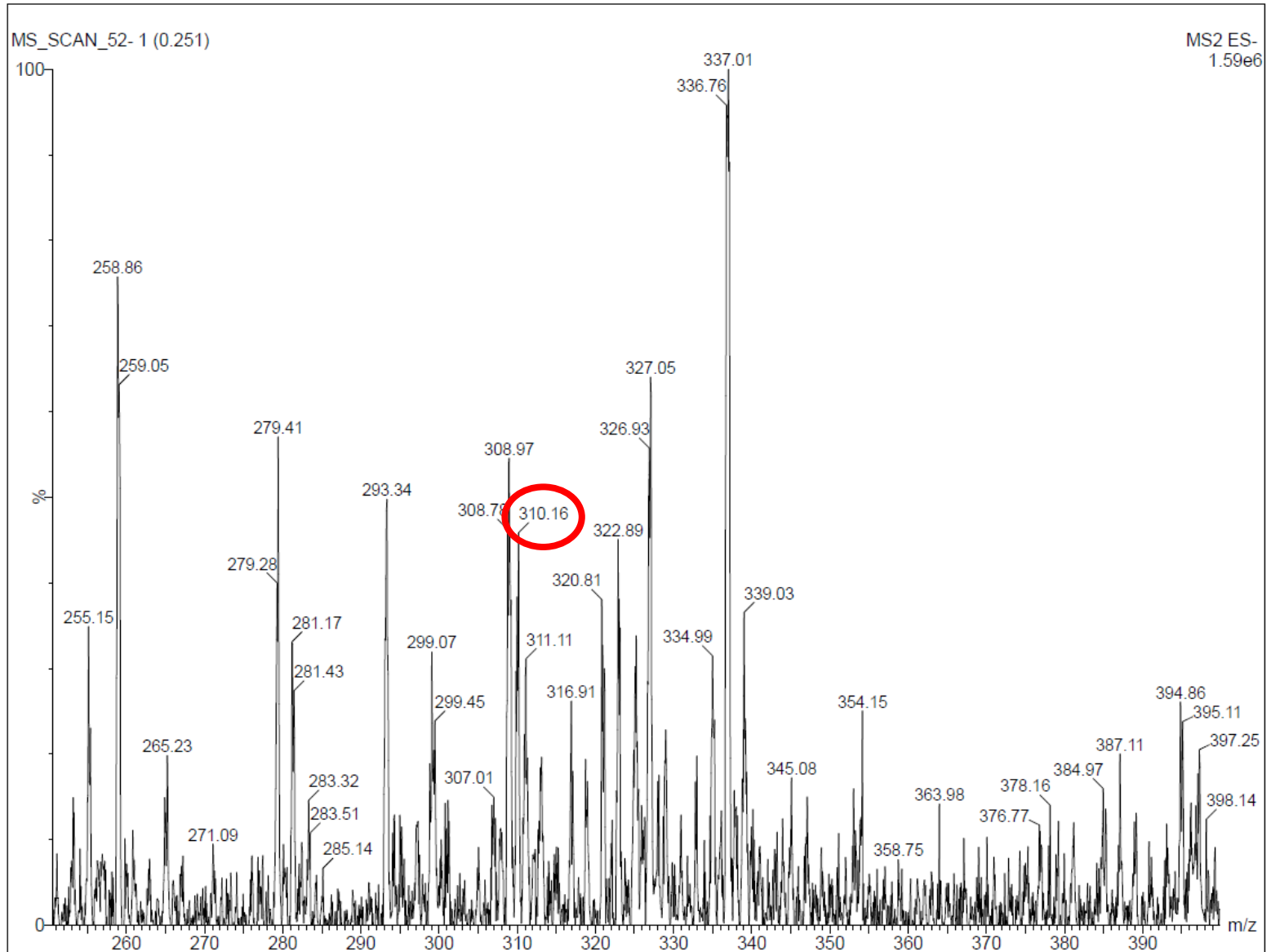


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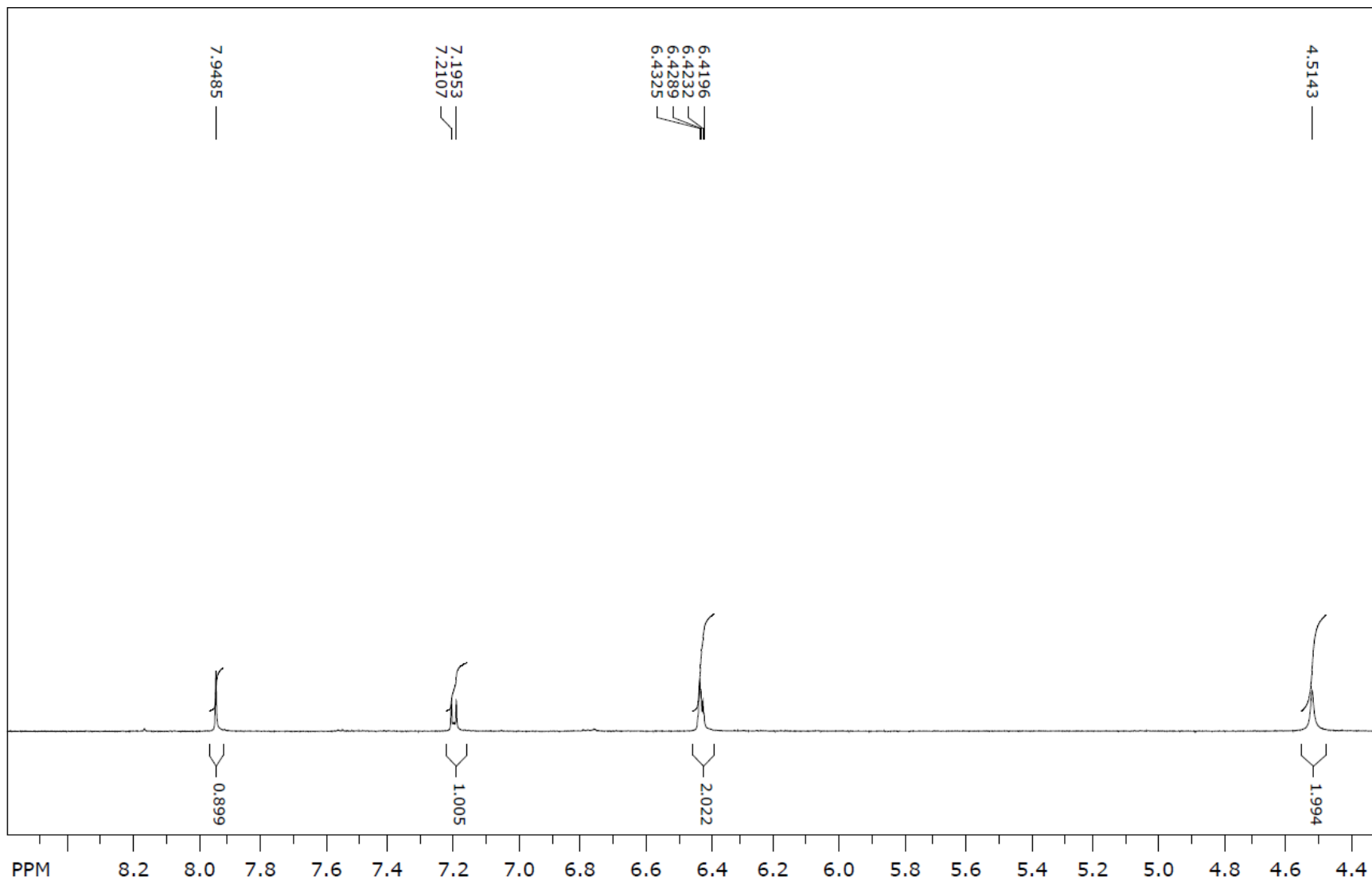
<b>Reaktanti</b>	2,4-dihidroksibenzaldehid (1 mmol) i 3-karboksimetilrodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	311,33 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	237 – 239 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,24
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	310,16
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,92 (s, 1H, OH), 10,49 (s, 1H, OH), 7,94 (s, 1H, CH), 7,20 (d, <i>J</i> = 9,24 Hz, 1H, arom.), 6,43 (q, <i>J</i> = 2,16; 3,42 Hz, 2H, arom.), 4,51 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,37; 167,25; 166,91; 162,92; 160,36; 131,42; 129,64; 115,19; 111,88; 108,88; 102,58; 46,13.

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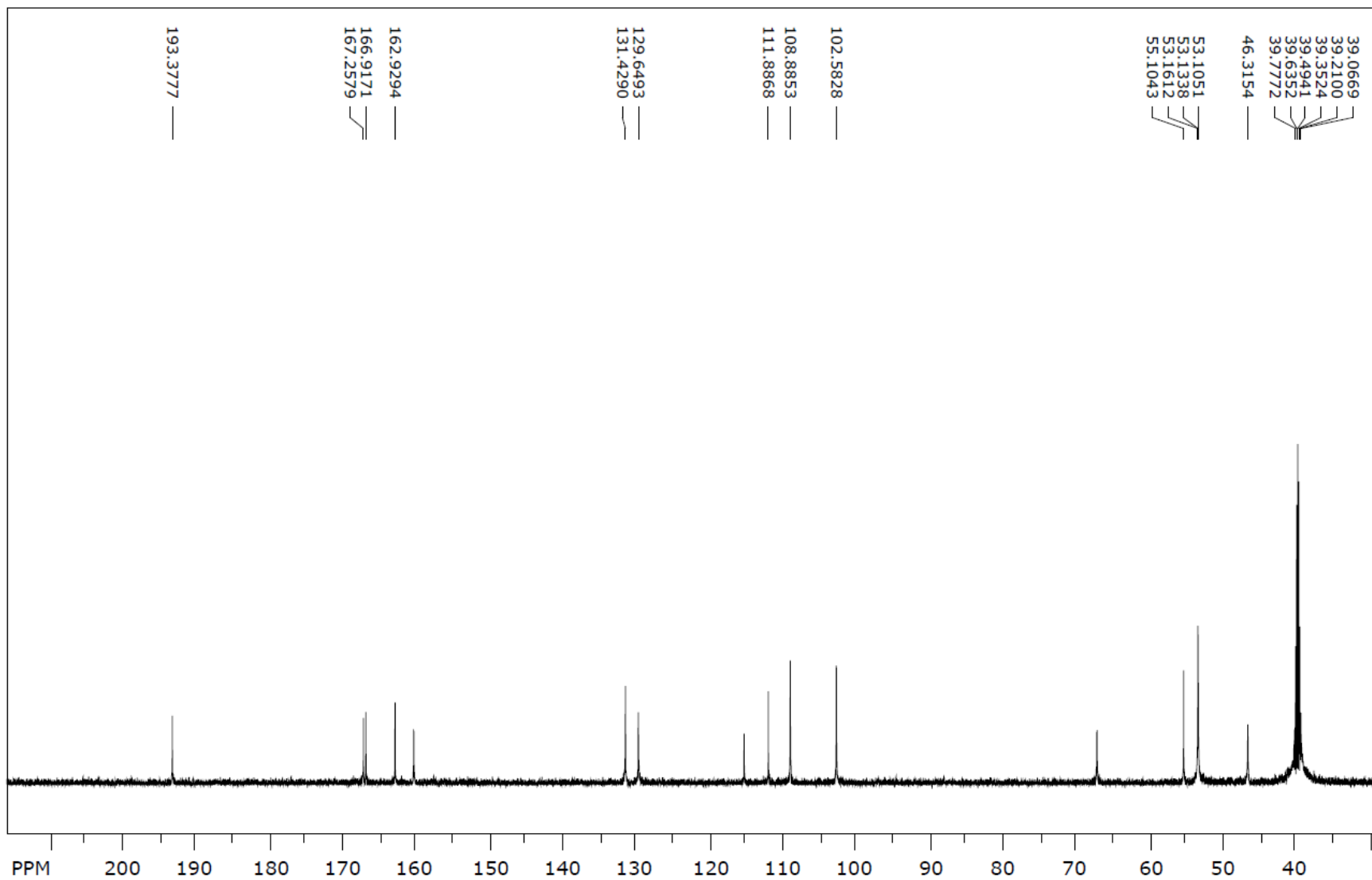
# Maseni spektar (8a)



**<sup>1</sup>H NMR spektr (8a)**



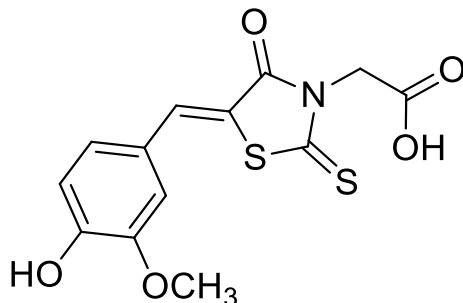
**<sup>13</sup>C NMR spektr (8a)**



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**2-(5-(4-hidroksi-3-metoksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina (8b)**

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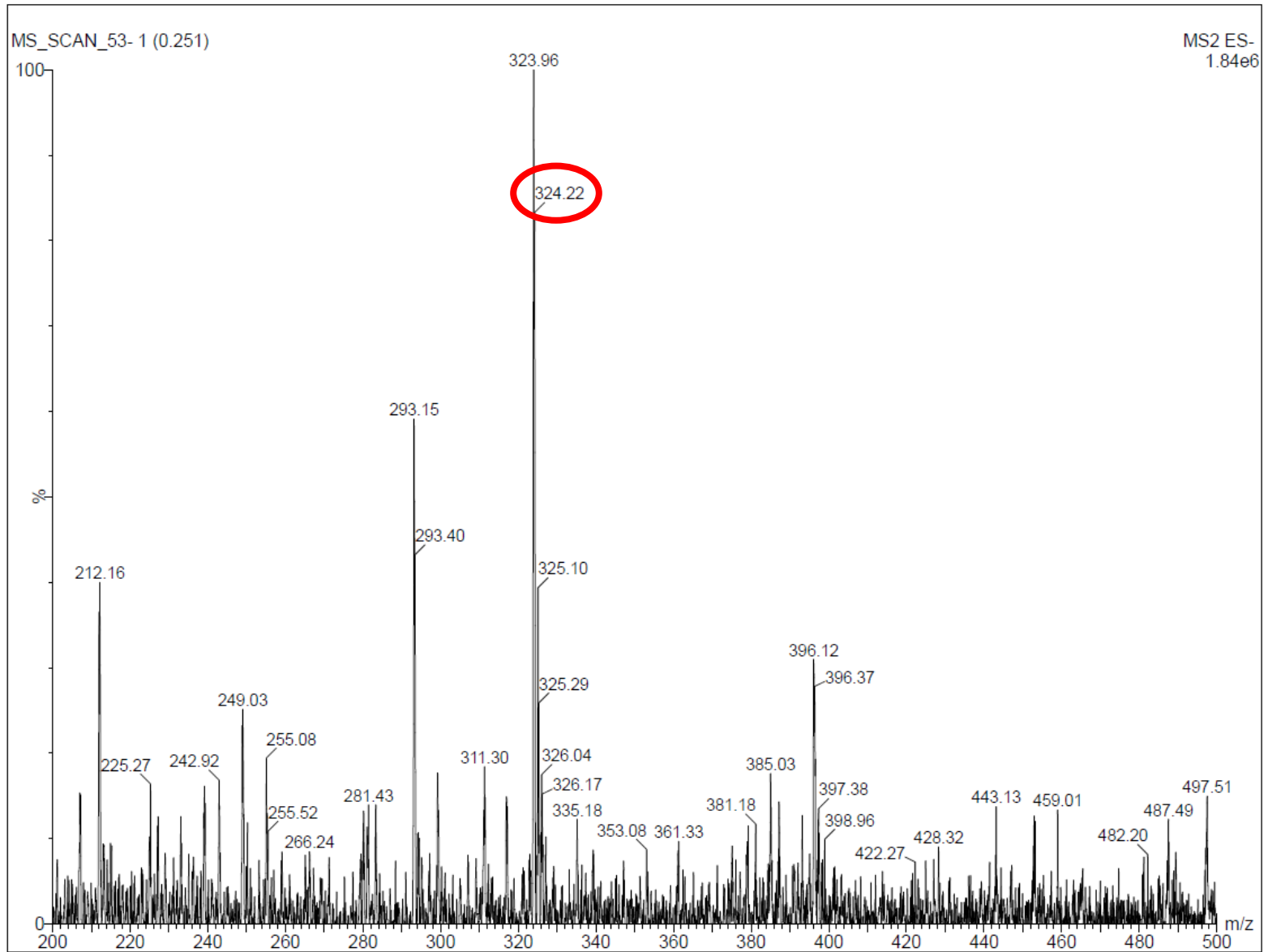


<b>Reaktanti</b>	3-metoksi-4-hidroksibenzaldehid (1 mmol) i 3-karboksimetilrodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	325,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	253 – 258 °C (lit. 233 °C, Abusetta i sur., 2020)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,60
<b>LC/MS/MS m/z (M-)</b>	324,22
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,75 (s, 1H, CH), 7,21 (d, <i>J</i> = 1,38 Hz, 1H, arom.), 7,14 (dd, <i>J</i> = 8,22; 1,59 Hz, 1H, arom.), 6,97 (d, <i>J</i> = 8,22 Hz, 1H, arom.), 4,57 (s, 2H, CH <sub>2</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,99; 166,99; 166,62; 150,53; 148,16; 134,22; 125,34; 124,26; 117,69; 116,42; 114,58; 55,62; 46,26.

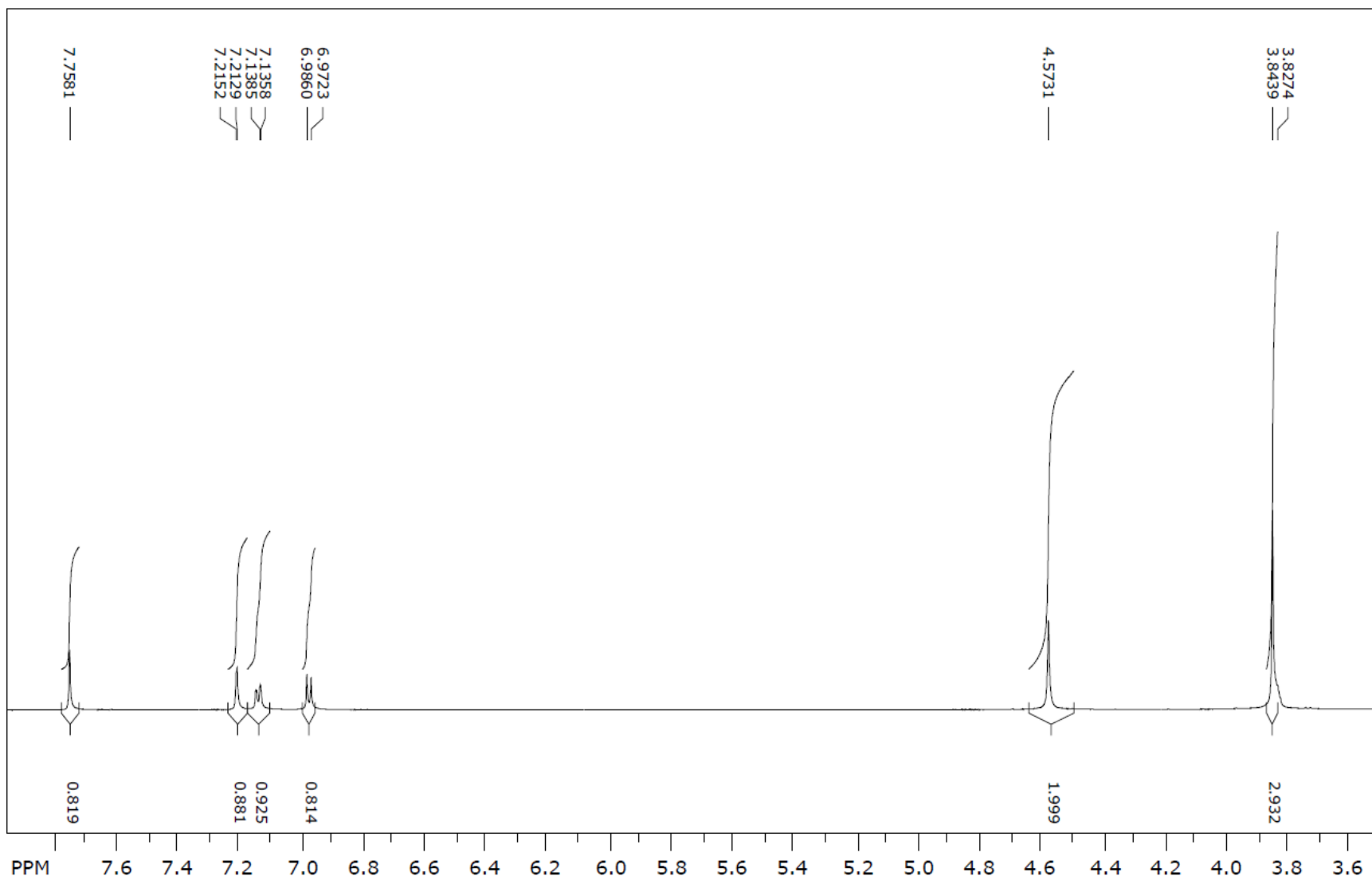
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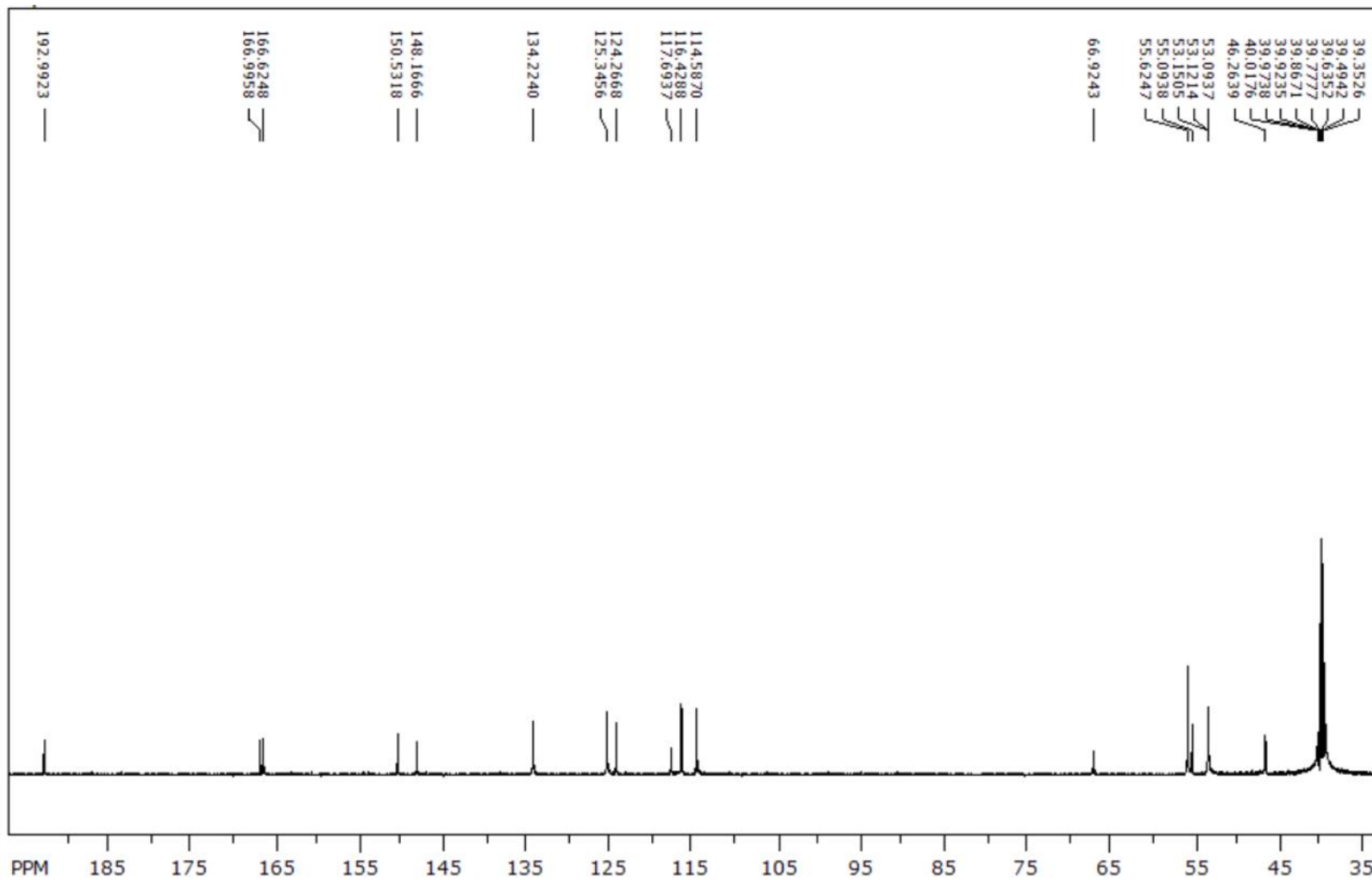
# Maseni spektr (8b)



**<sup>1</sup>H NMR spektr (8b)**



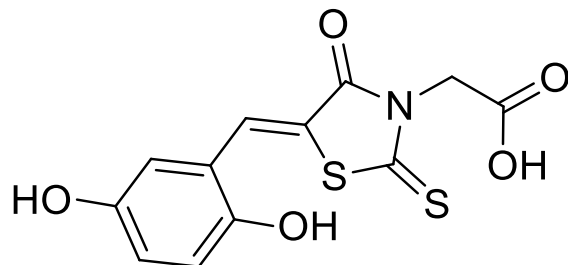
<sup>13</sup>C NMR spektr (8b)



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**2-(5-(2,5-dihidroksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8c)**

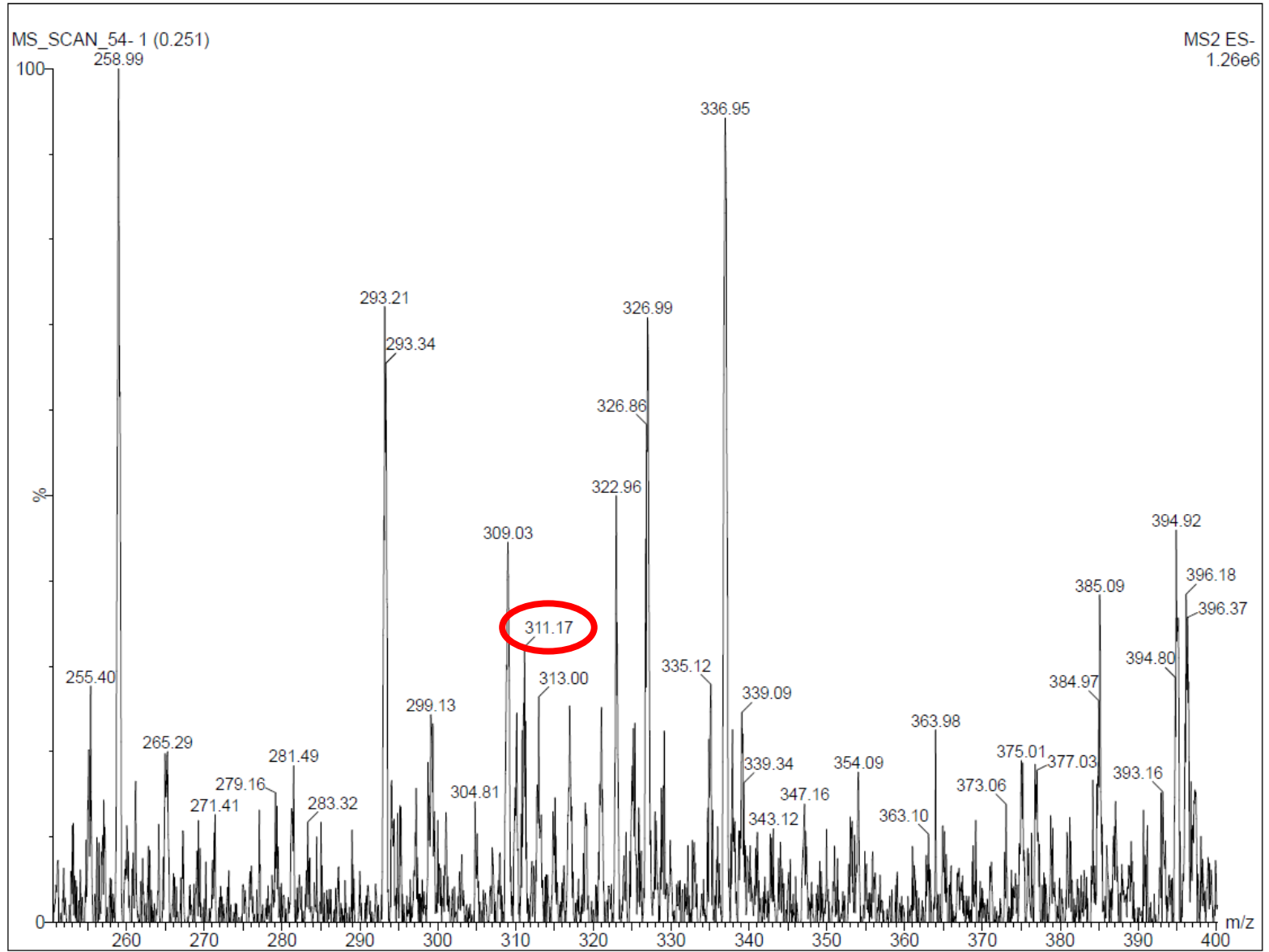
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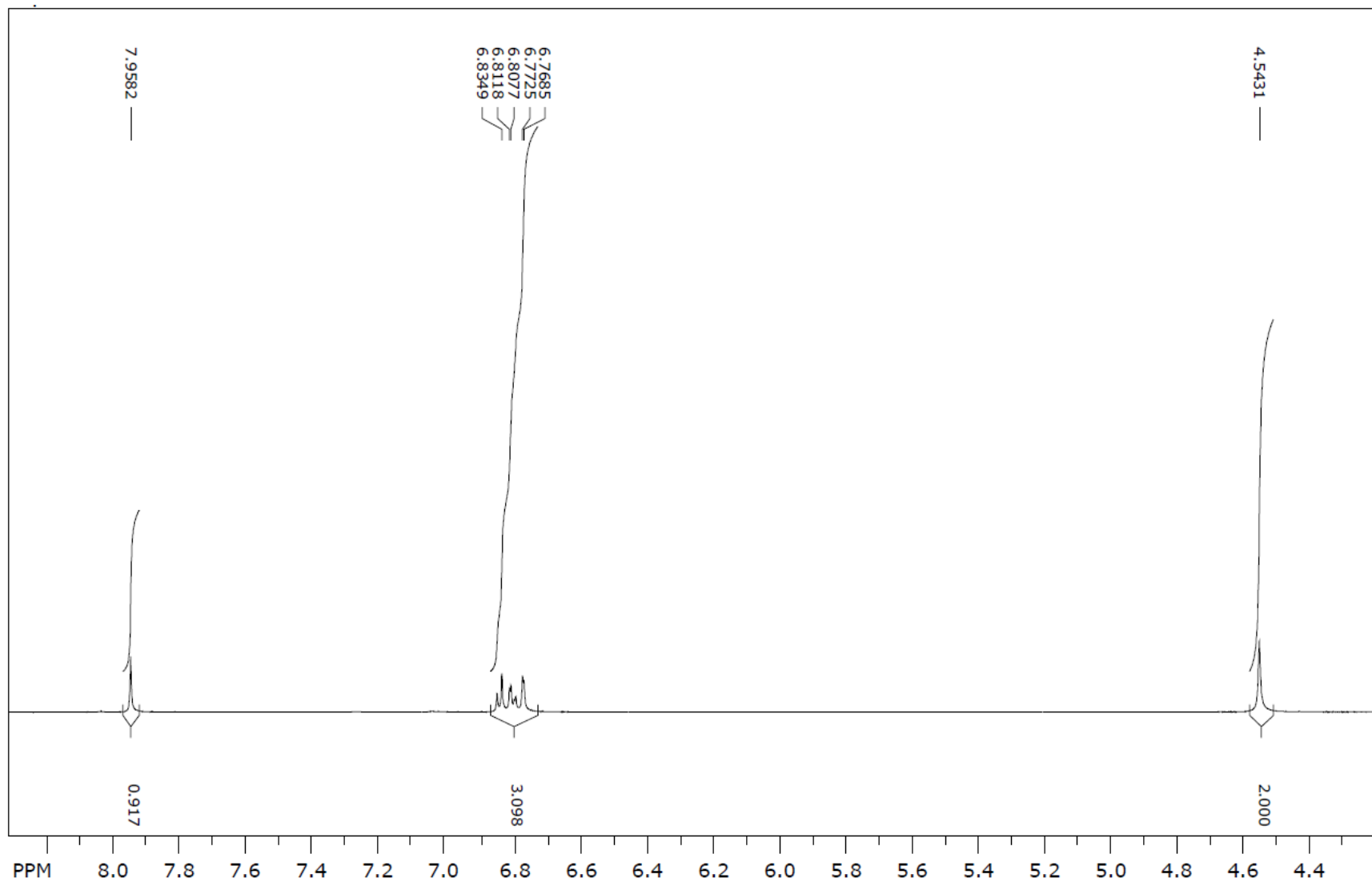
<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (1 mmol) i 3-karboksimetilrodanin (1 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	311,33 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	222 – 224 °C
<b>Boja kristala</b>	Crvena
<b>R<sub>f</sub></b>	0,40
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	311,17
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 10,38 (s, 1H, OH), 9,27 (s, 1H, OH), 7,95 (s, 1H, CH), 6,84 (d, <i>J</i> = 8,76 Hz, 1H, arom.), 6,80 (dd, <i>J</i> = 8,70; 2,52 Hz, 1H, arom.), 6,77 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 4,54 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,46; 167,06; 166,77; 151,26; 150,20; 128,69; 120,96; 119,95; 119,79; 117,35; 113,63; 46,44.

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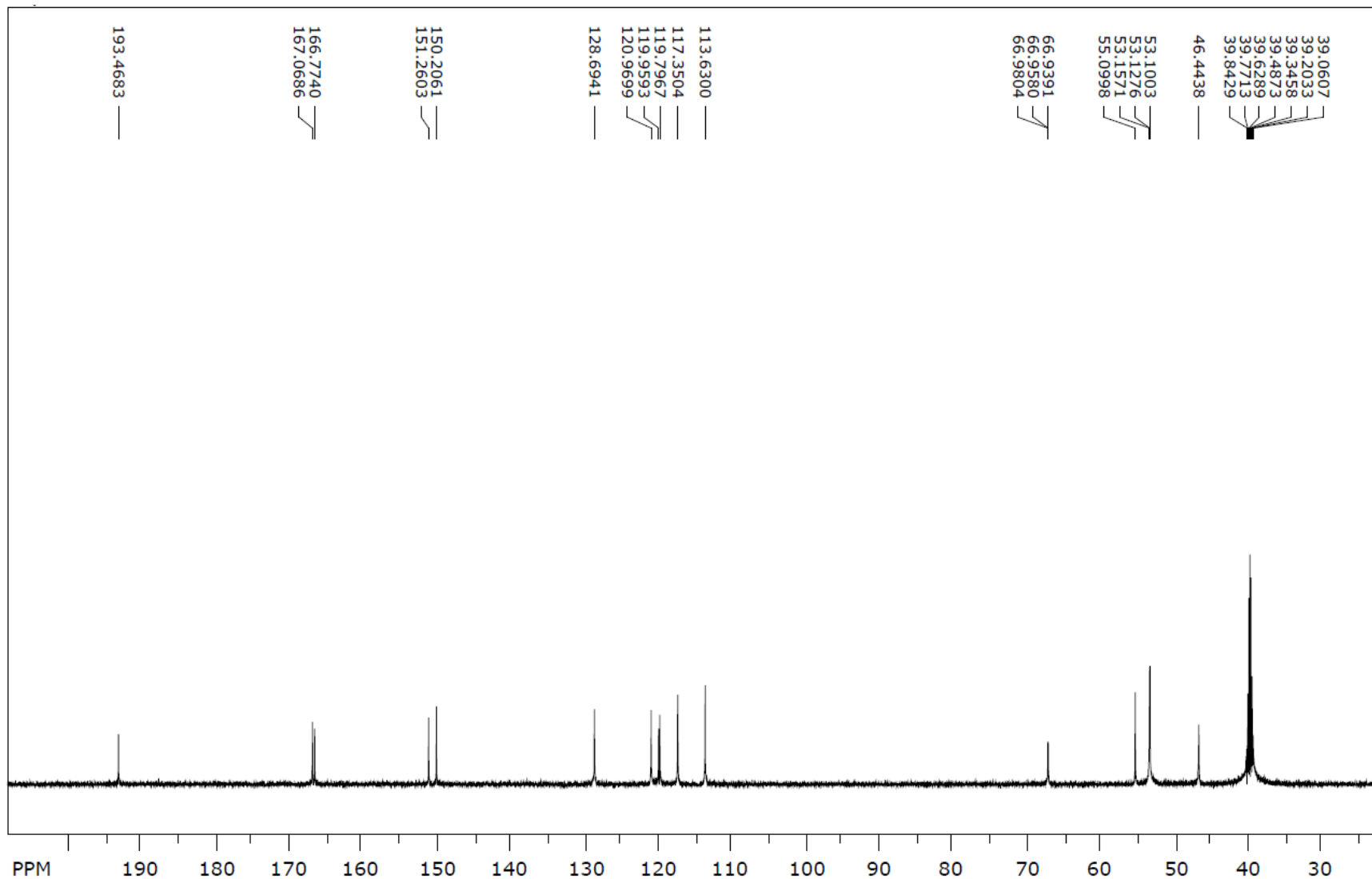
# Maseni spektar (8c)



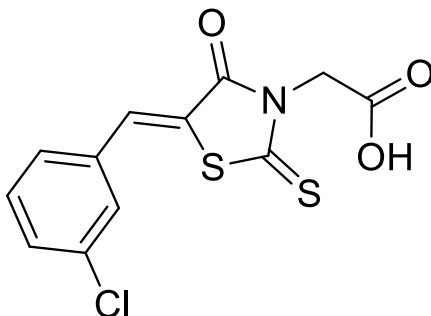
**<sup>1</sup>H NMR spektr (8c)**



**<sup>13</sup>C NMR spektr (8c)**



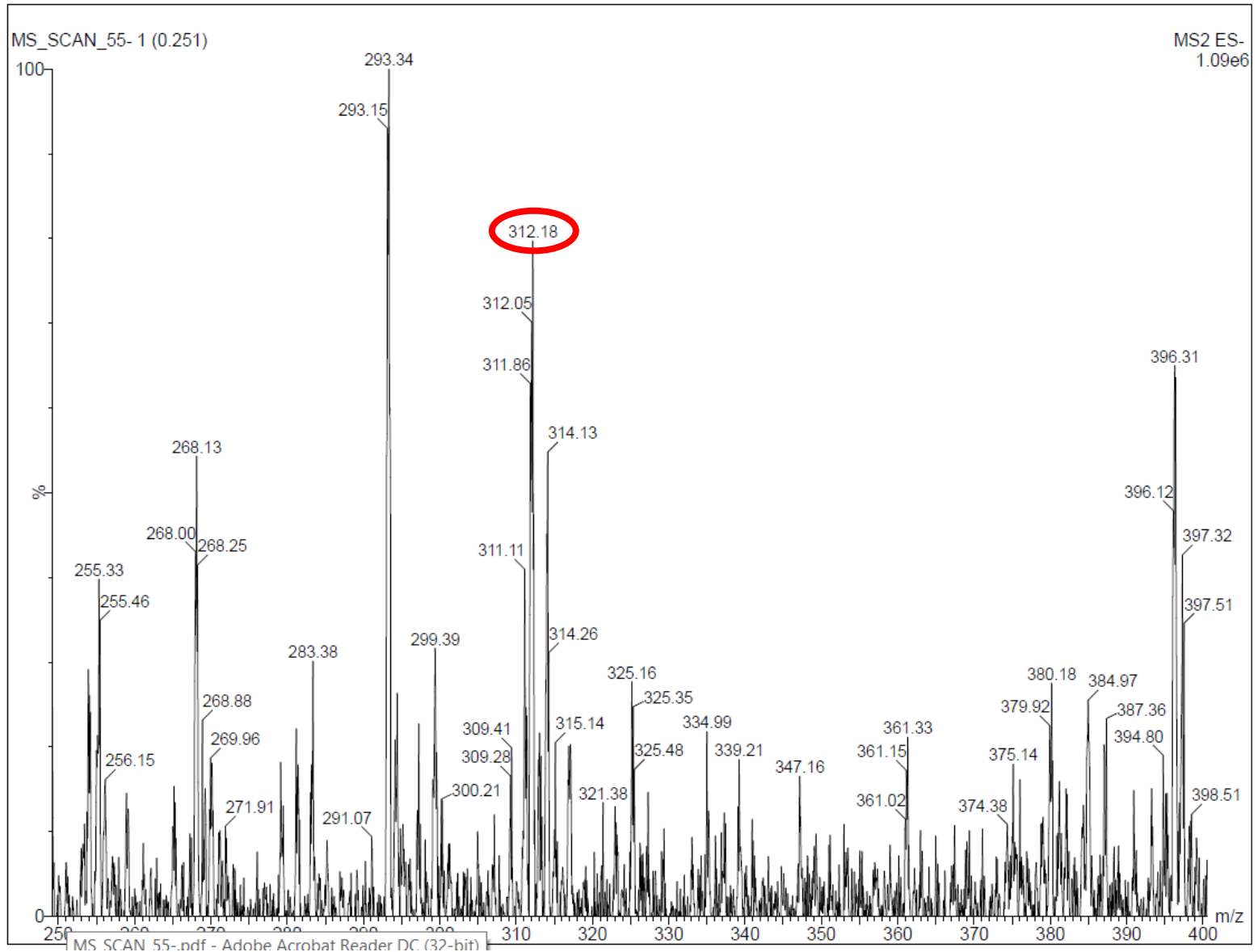
**2-(5-(3-klorbenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina  
(8d)**



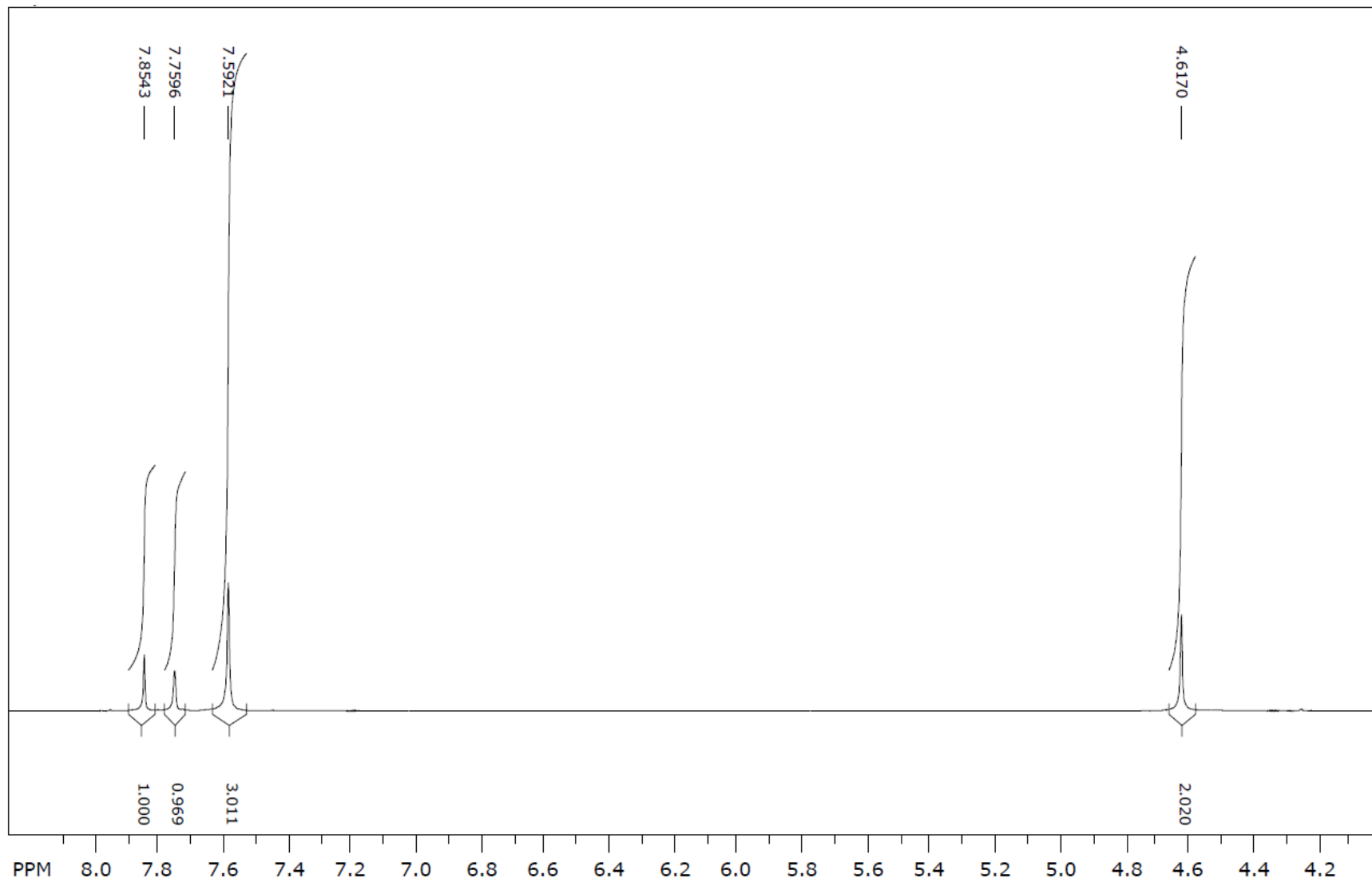
<b>Reaktanti</b>	3-klorbenzaldehyd (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	313,78 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>8</sub> ClNO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	180 – 183 °C
<b>Boja kristala</b>	Tamnosmeđa
<b>R<sub>f</sub></b>	0,77
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	312,18
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,85 (s, 1H, CH), 7,75 (s, 1H, arom.), 7,59 (s, 3H, arom.), 4,61 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,85; 166,96; 166,33; 135,02; 134,06; 131,53; 131,27; 130,53; 128,26; 123,98; 46,13.



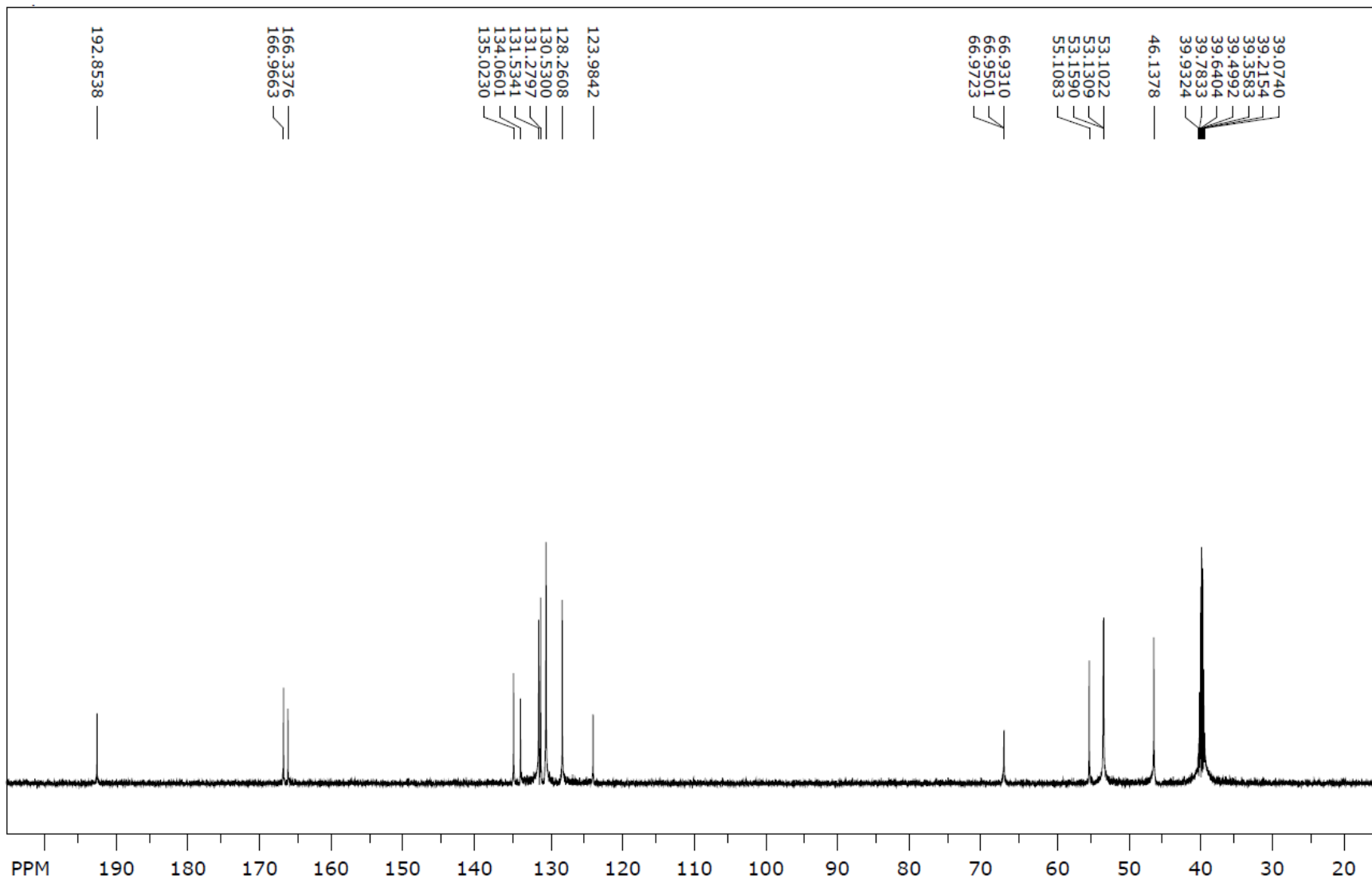
# Maseni spektr (8d)



**<sup>1</sup>H NMR spektr (8d)**



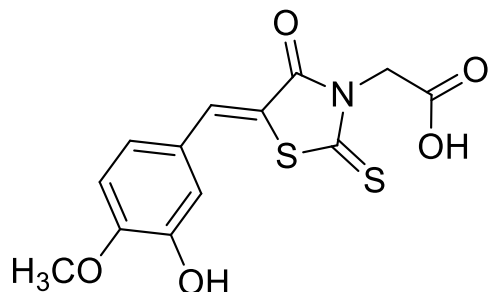
# <sup>13</sup>C NMR spektr (8d)



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**2-(5-(3-hidroksi-4-metoksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina (8e)**

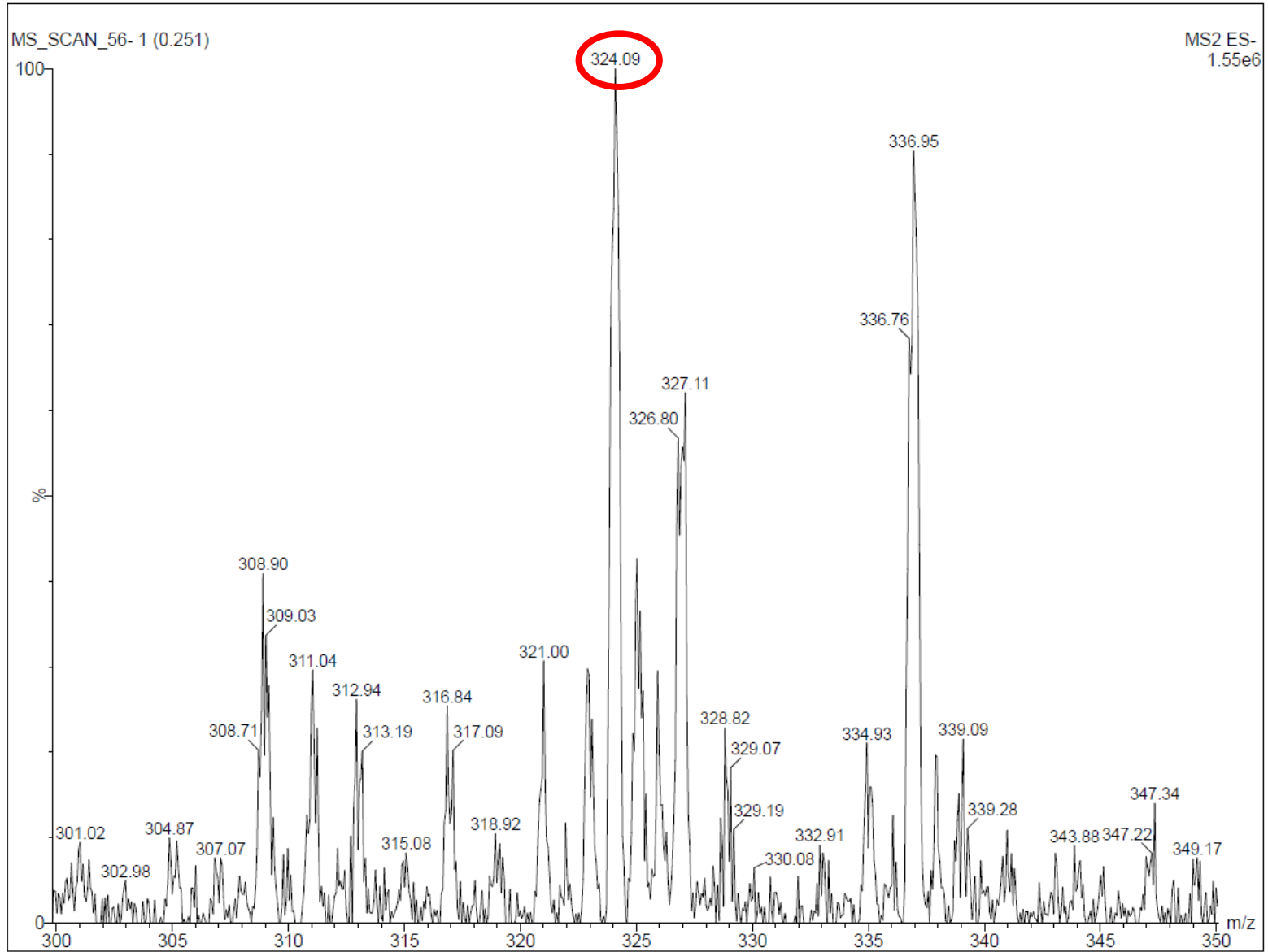
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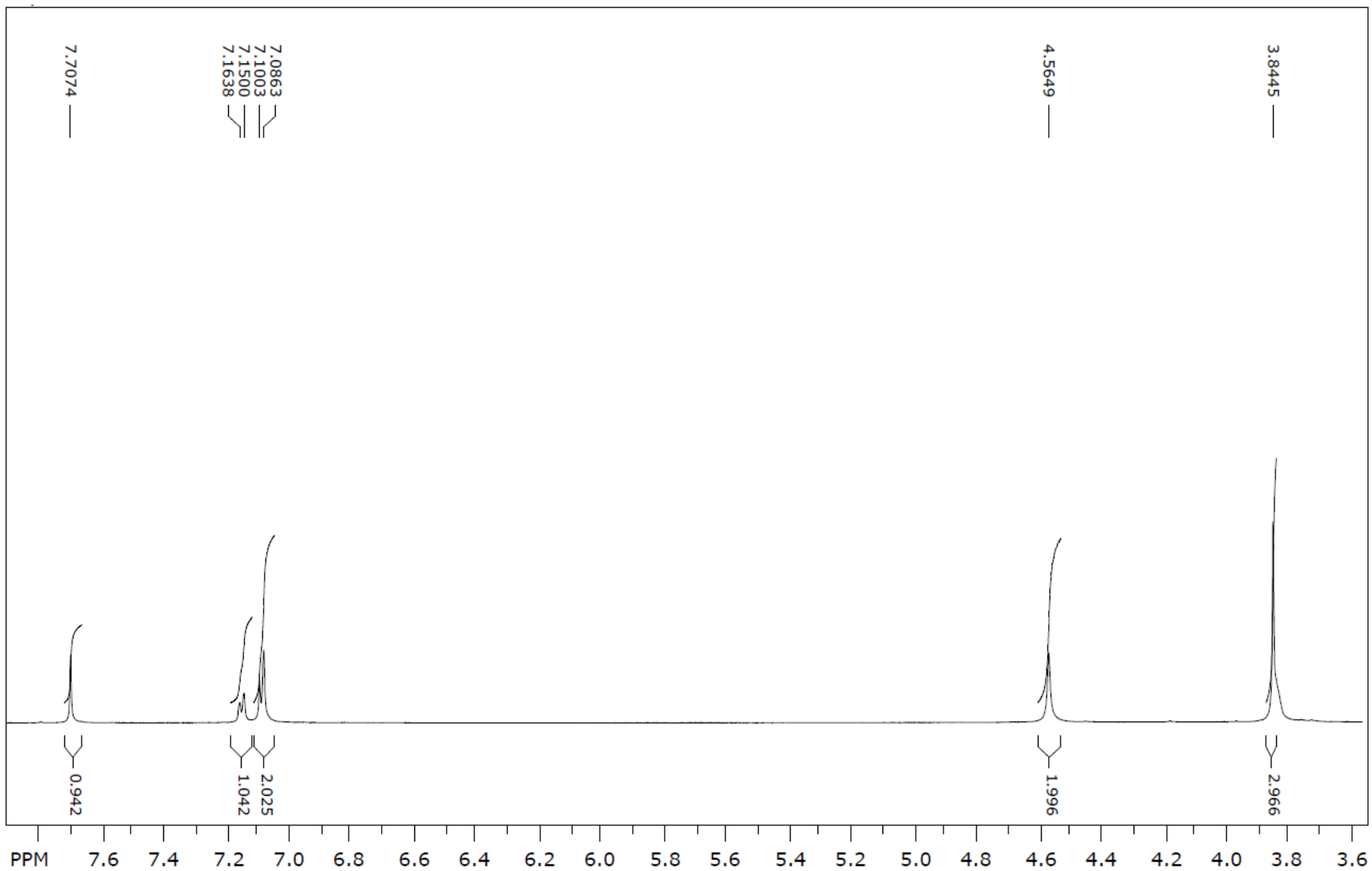
<b>Reaktanti</b>	3-hidroksi-4-metoksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	325,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	200 – 205 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,59
<b>LC/MS/MS m/z (M-)</b>	324,09
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,82 (s, 1H, OH), 7,70 (s, 1H, CH), 7,16 (d, <i>J</i> = 8,28 Hz, 1H, arom.), 7,09 (d, <i>J</i> = 8,40 Hz, 2H, arom.), 4,56 (s, 2H, CH <sub>2</sub> ), 3,84 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,11; 166,63; 150,76; 147,27; 133,79; 125,67; 124,42; 118,66; 116,35; 112,57; 46,36.

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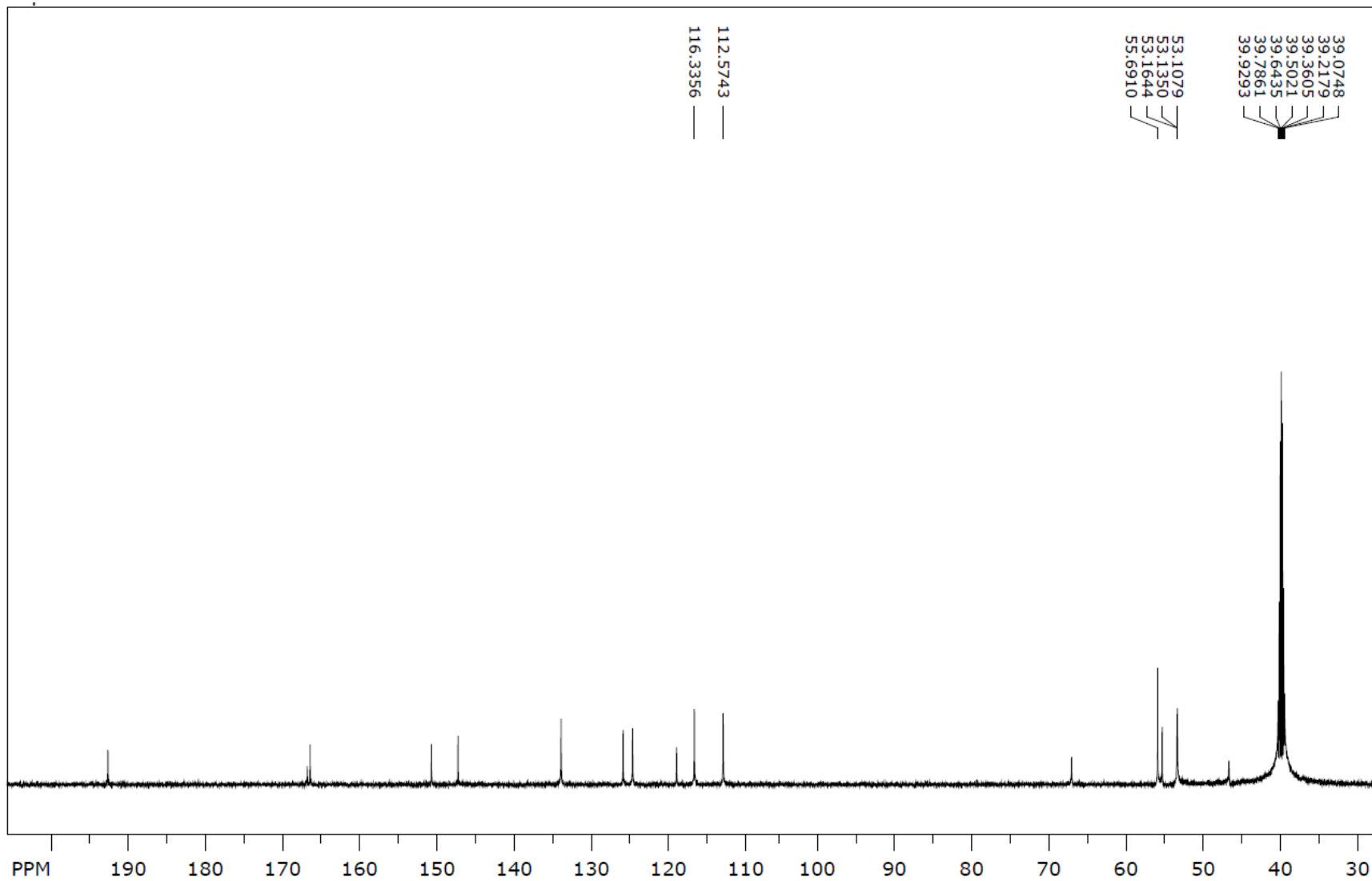
# Maseni spektar (8e)



**<sup>1</sup>H NMR spektr (8e)**



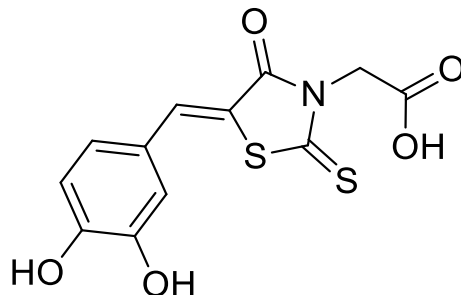
**<sup>13</sup>C NMR spektr (8e)**



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**2-(5-(3,4-dihidroksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina (8f)**

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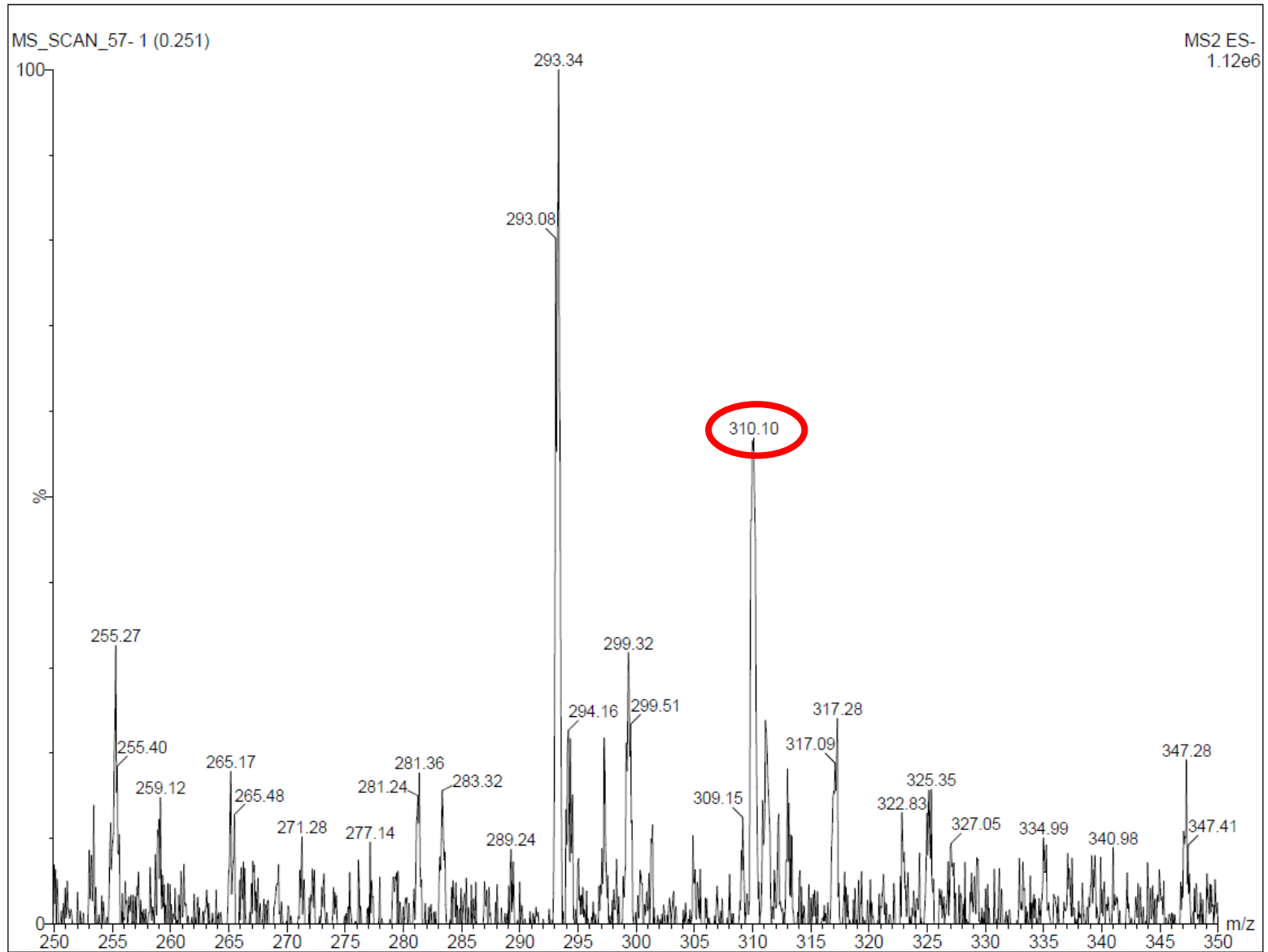


<b>Reaktanti</b>	3,4-dihidroksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	311,33 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	255 – 260 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,4
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	310,10
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,67 (s, 1H, CH), 7,04 (t, <i>J</i> = 4,32; 8,82 Hz, 2H, arom.), 6,91 (d, <i>J</i> = 8,04 Hz, 1H, arom.), 4,57 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,08; 167,34; 166,67; 149,92; 146,28; 134,36; 125,07; 124,21; 117,04; 116,58; 46,30.

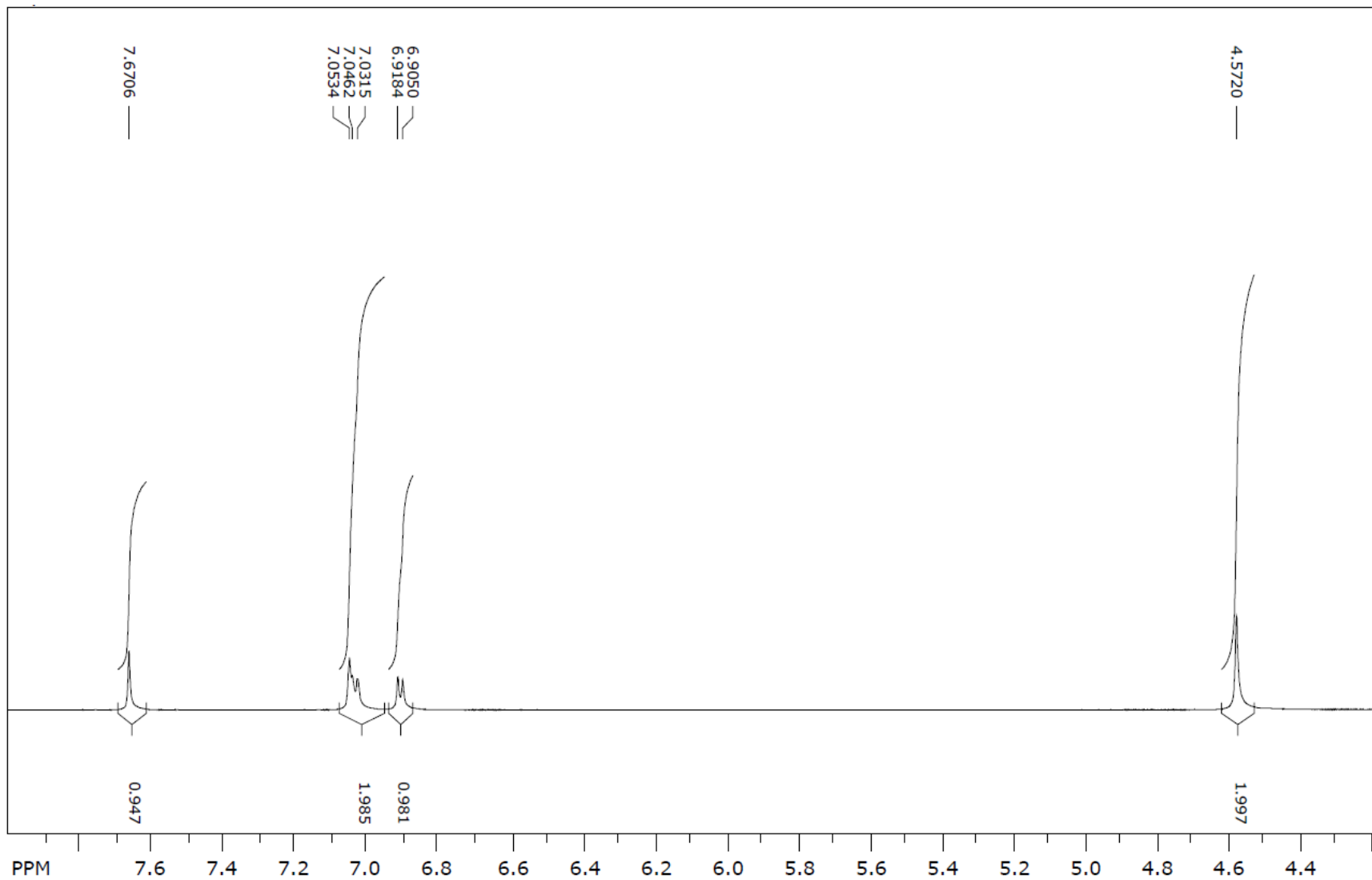
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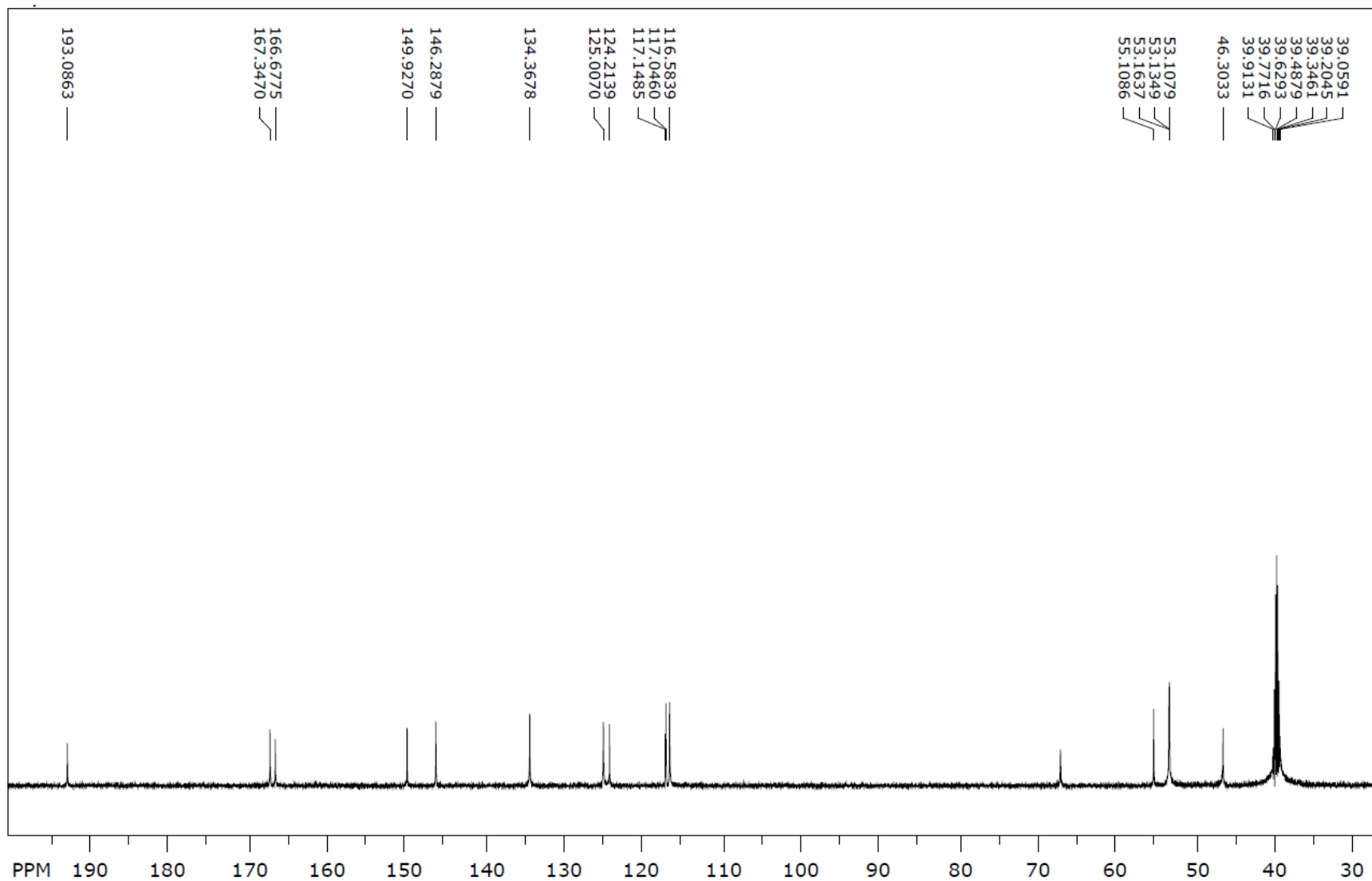
# Maseni spektr (8f)



**<sup>1</sup>H NMR spektr (8f)**



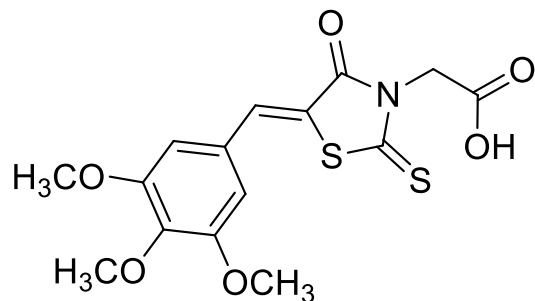
**<sup>13</sup>C NMR spektr (8f)**



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**2-(4-okso-2-tiokso-5-(3,4,5-trimetoksibenziliden) tiazolidin-3-il) octena  
kiselina (8g)**

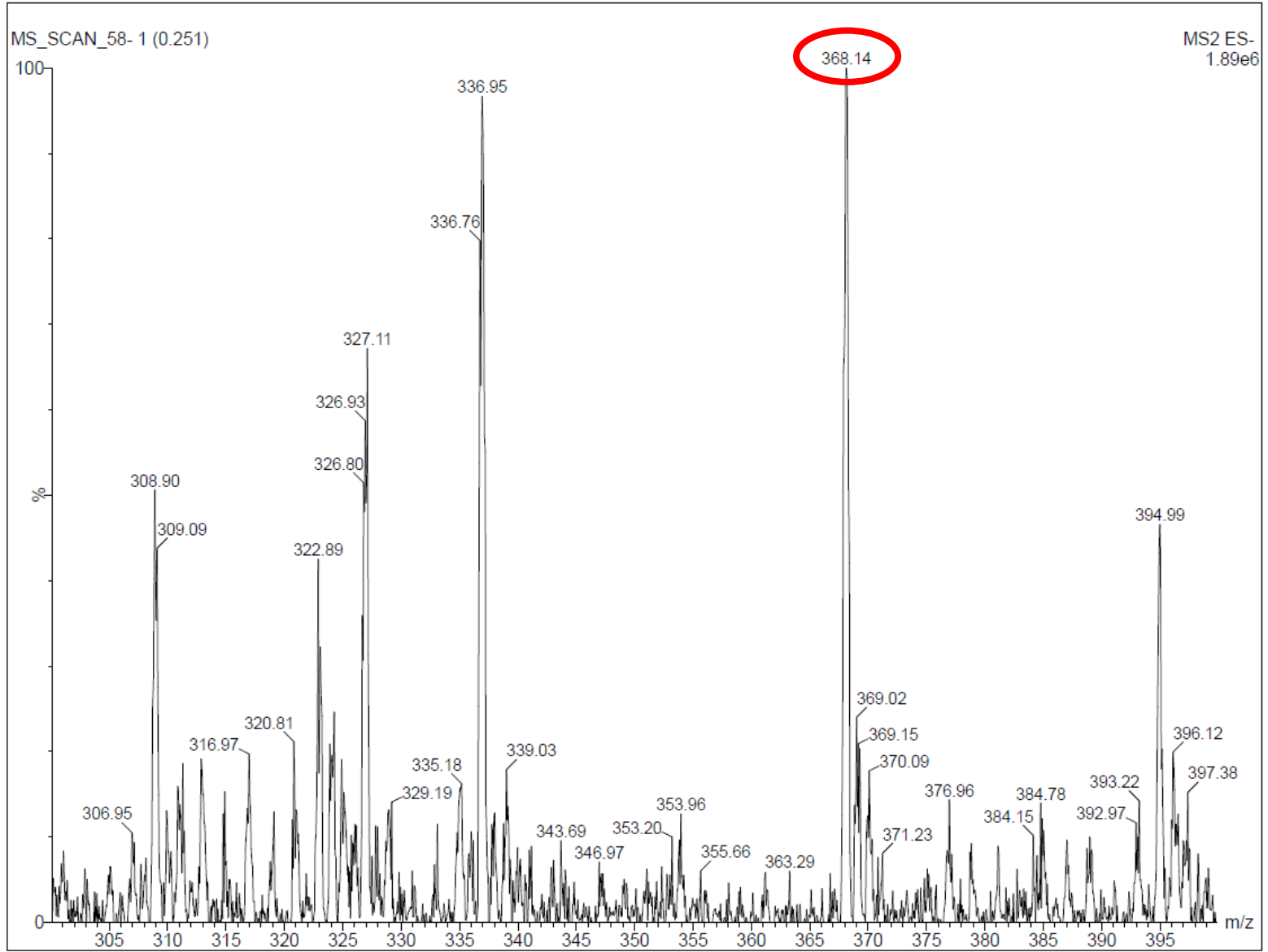
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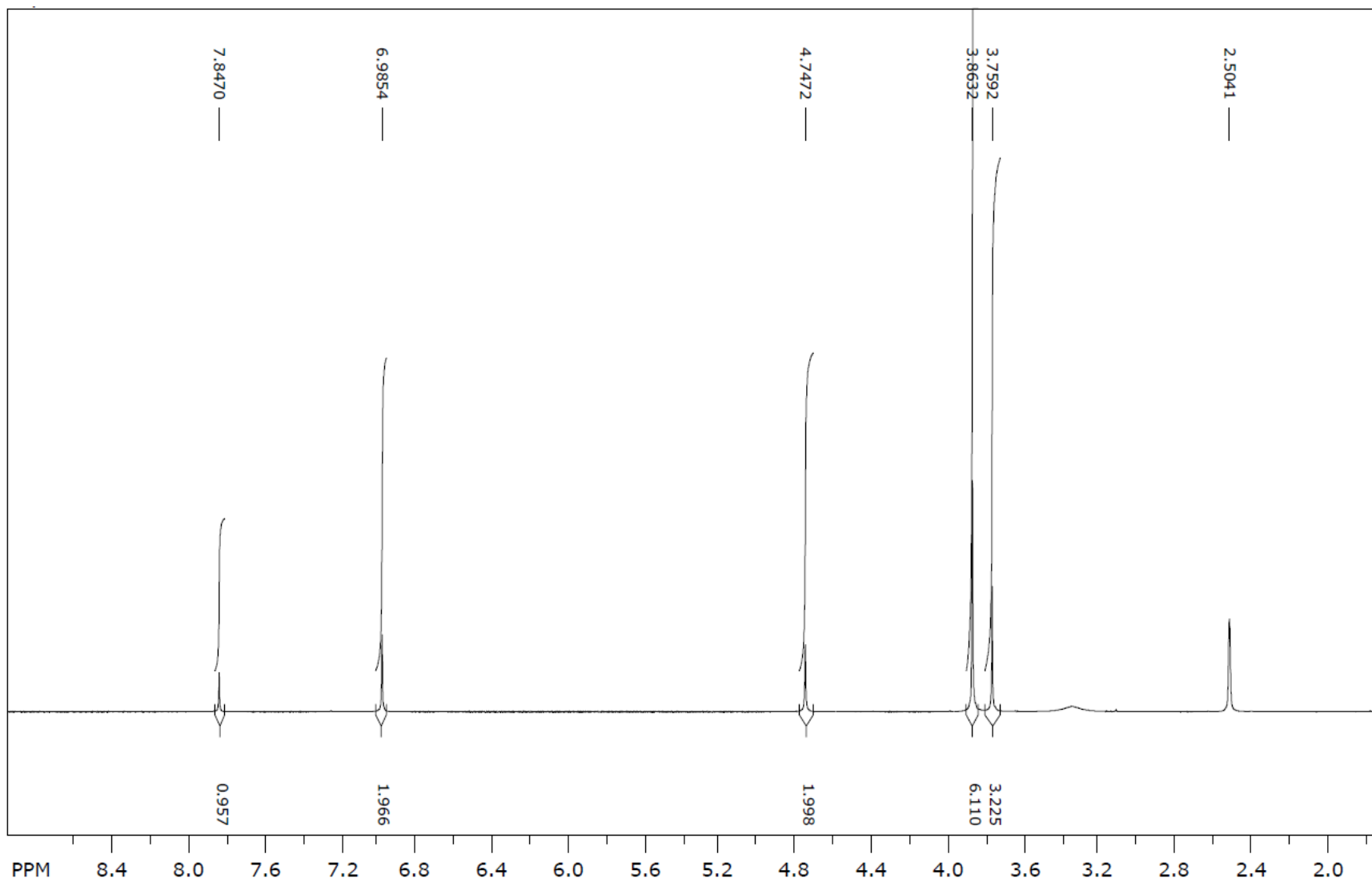
<b>Reaktanti</b>	3,4,5-trimetoksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	369,41 g/mol
<b>Molekulska formula</b>	C <sub>15</sub> H <sub>15</sub> NO <sub>6</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	139 – 142 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,71
<b>LC/MS/MS m/z (M-)</b>	368,14
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,84 (s, 1H, CH), 6,95 (s, 2H, arom.), 4,74 (s, 2H, CH <sub>2</sub> ), 3,86 (s, 6H, OCH <sub>3</sub> ), 3,75 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 194,04; 167,23; 166,26; 153,29; 140,16; 134,28; 128,24; 120,63; 108,26; 60,23; 56,07; 44,99.

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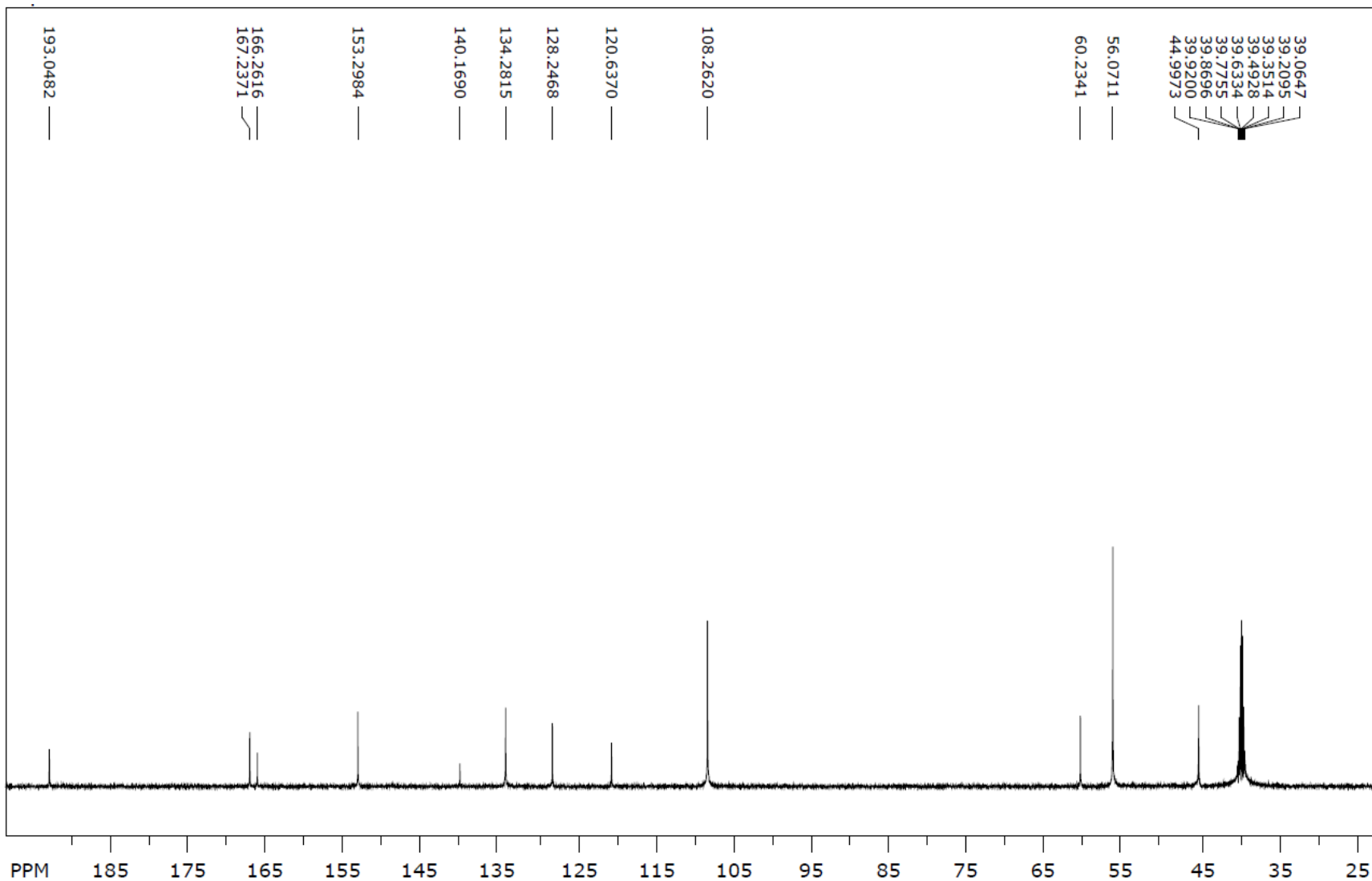
# Maseni spektar (8g)



**<sup>1</sup>H NMR spektr (8g)**



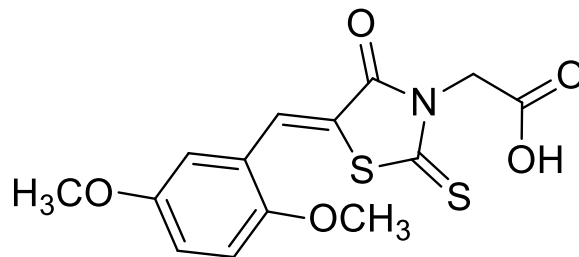
# <sup>13</sup>C NMR spektr (8g)



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**2-(5-(2,5-dimetoksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8h)**

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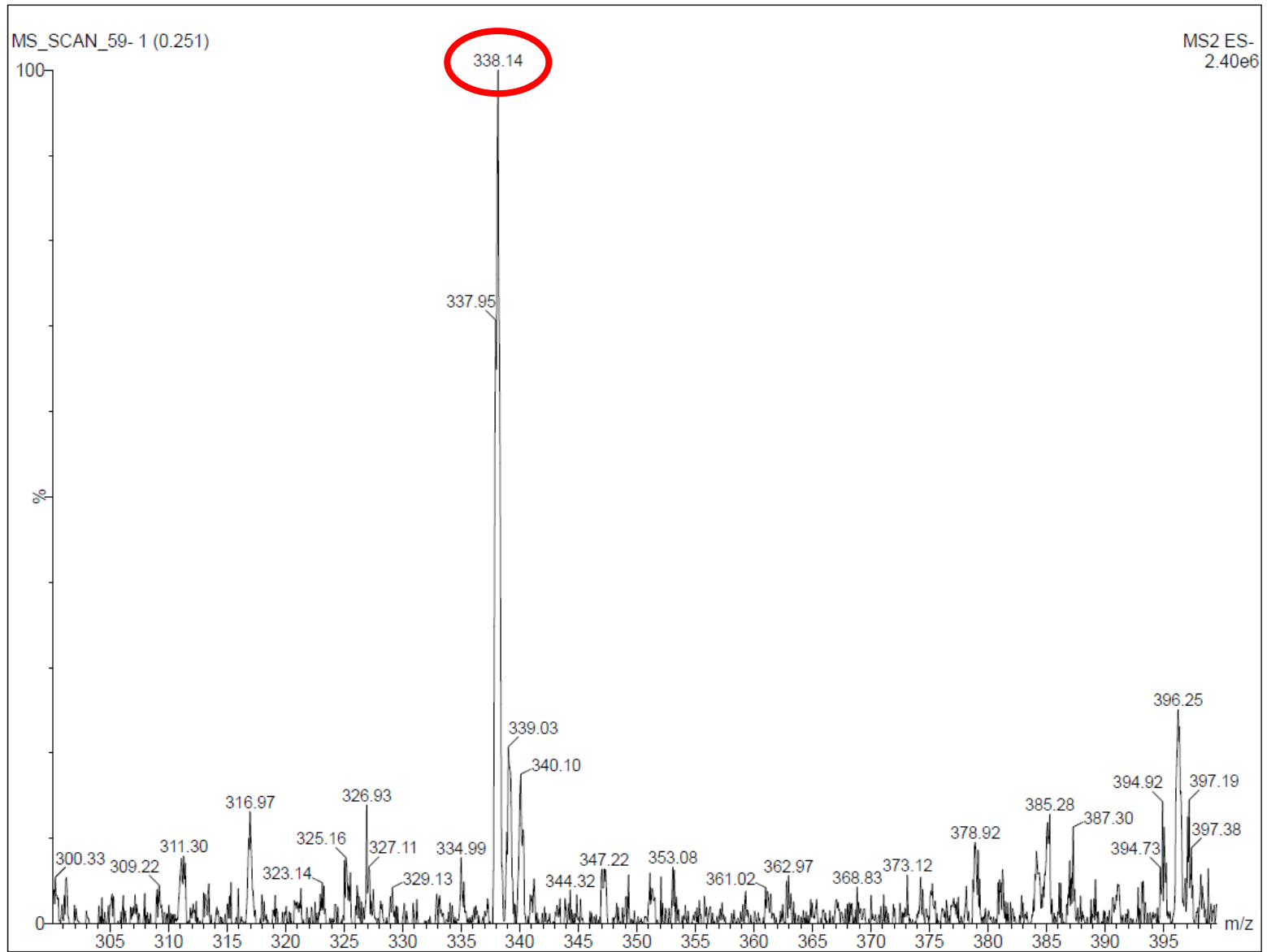
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<b>Reaktanti</b>	2,5-dimetoksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	339,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	170 – 172 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,73
<b>LC/MS/MS m/z (M-)</b>	338,14
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,91 (s, 1H, CH), 7,12 (s, 2H, arom.), 6,96 (s, 1H, arom.), 4,64 (s, 2H, CH <sub>2</sub> ), 3,87 (s, 3H, OCH <sub>3</sub> ), 3,77 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,58; 167,15; 166,50; 153,52; 152,21; 128,83; 122,46; 121,65; 119,05; 114,34; 113,26; 56,06; 55,58; 45,71.

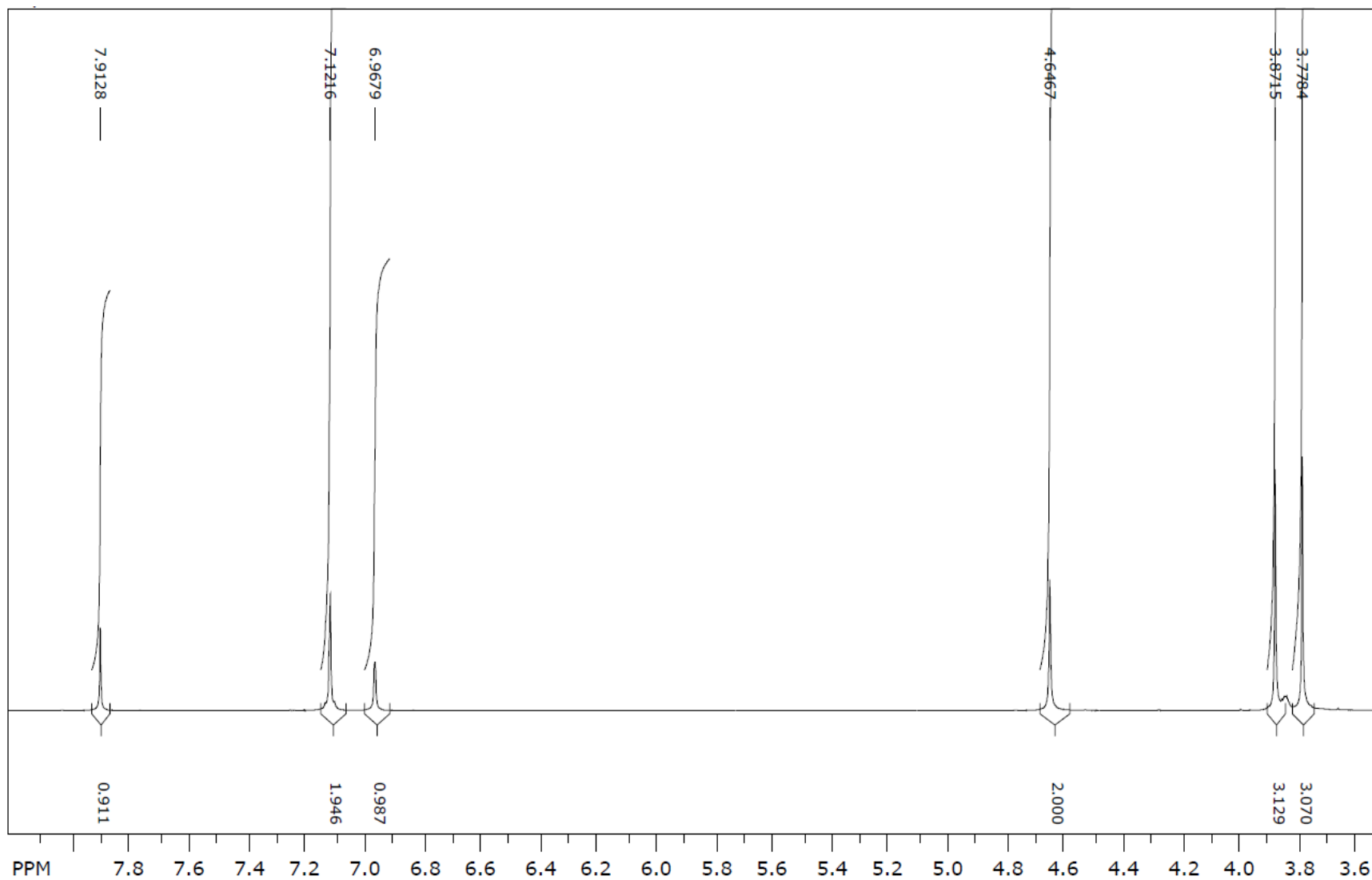
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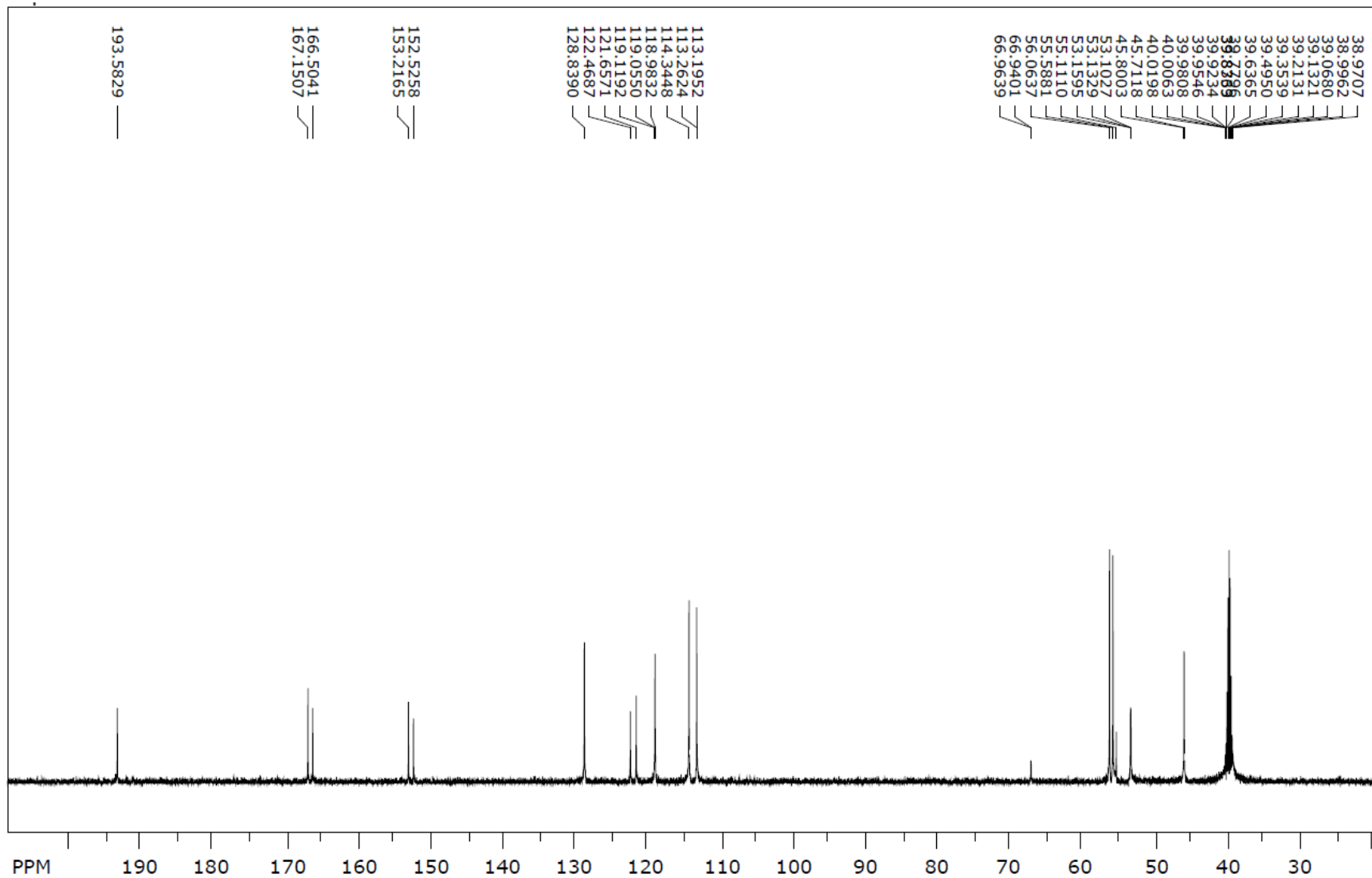
# Maseni spektar (8h)



**<sup>1</sup>H NMR spektr (8h)**



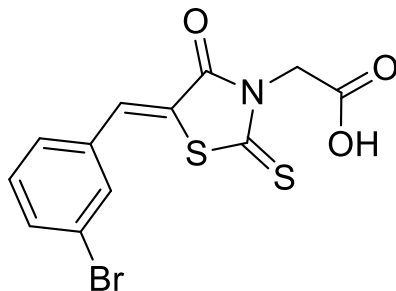
# <sup>13</sup>C NMR spektr (8h)



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**2-(5-(3-brombenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina  
(8i)**

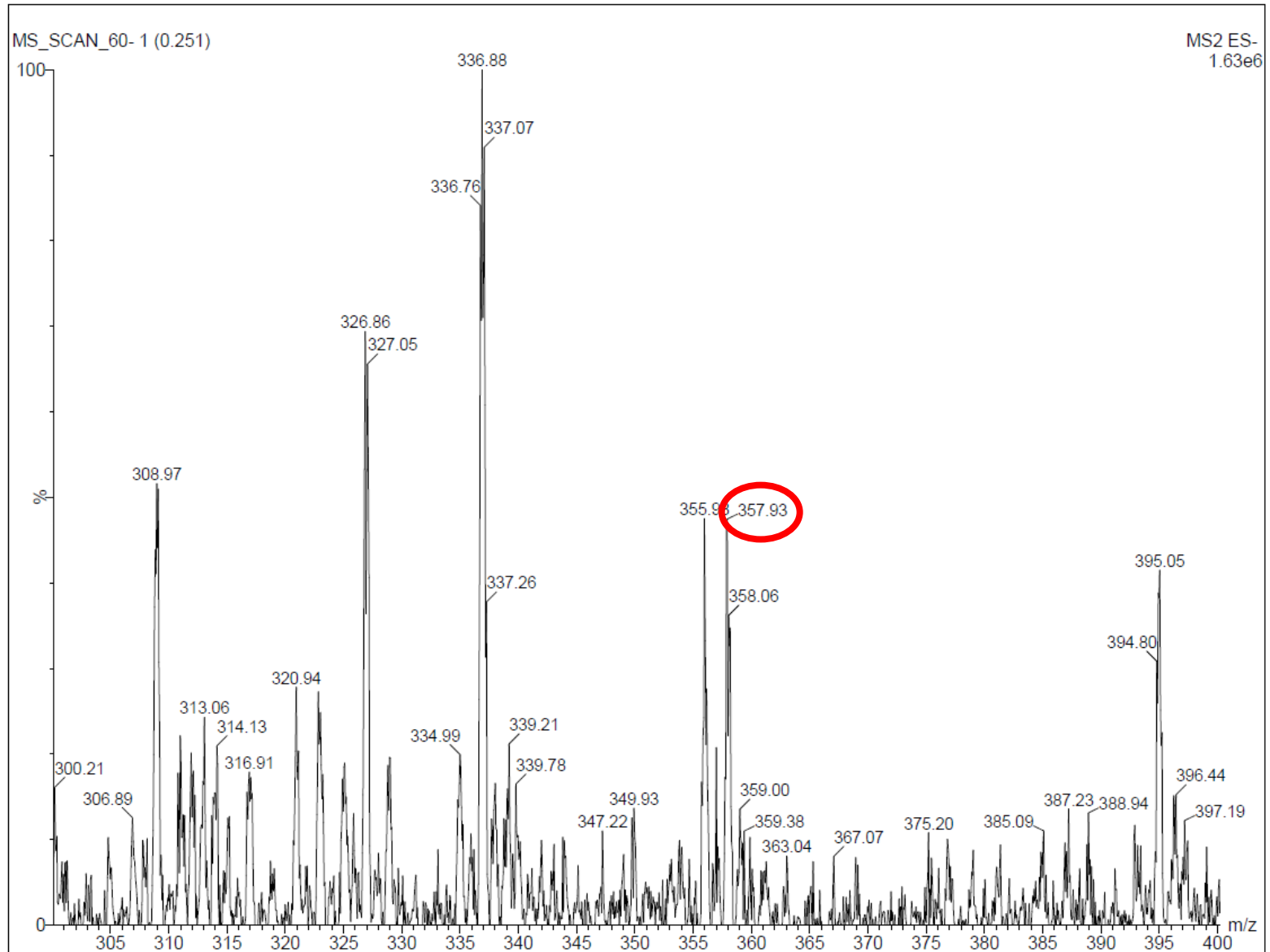
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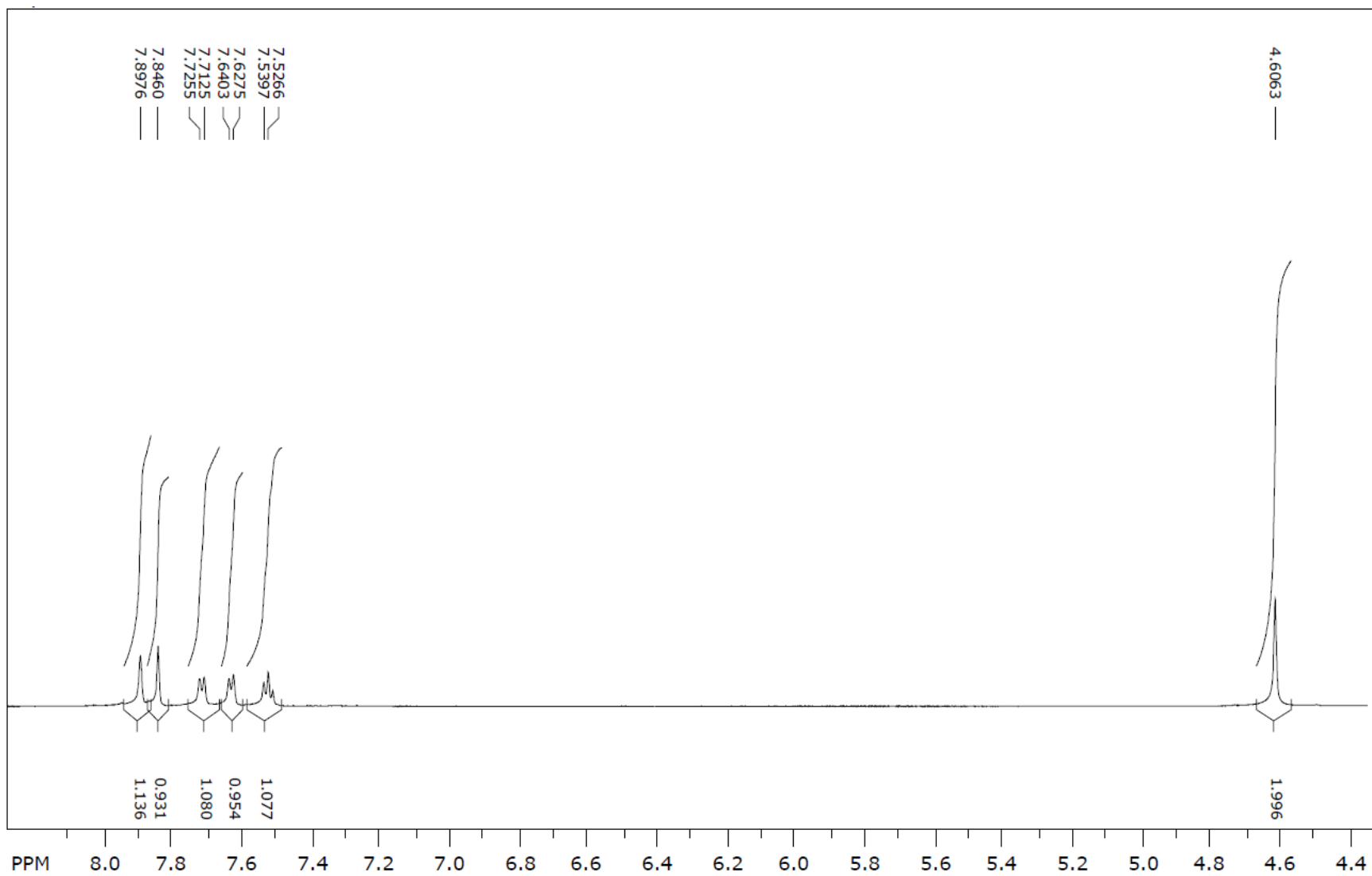
<b>Reaktanti</b>	3-brombenzaldehyd (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	358,23 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>8</sub> BrNO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	176 – 180 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,79
<b>LC/MS/MS m/z (M-)</b>	357,93
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,89 (s, 1H, CH), 7,84 (s, 1H, arom.), 7,72 (d, <i>J</i> = 7,80 Hz, 1H, arom.), 7,63 (d, <i>J</i> = 7,68 Hz, 1H, arom.), 7,53 (t, <i>J</i> = 7,83 Hz, 1H, arom.), 4,60 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,84; 166,89; 166,32; 135,29; 133,42; 133,38; 131,458; 131,40; 128,56; 123,91; 122,56; 46,21.

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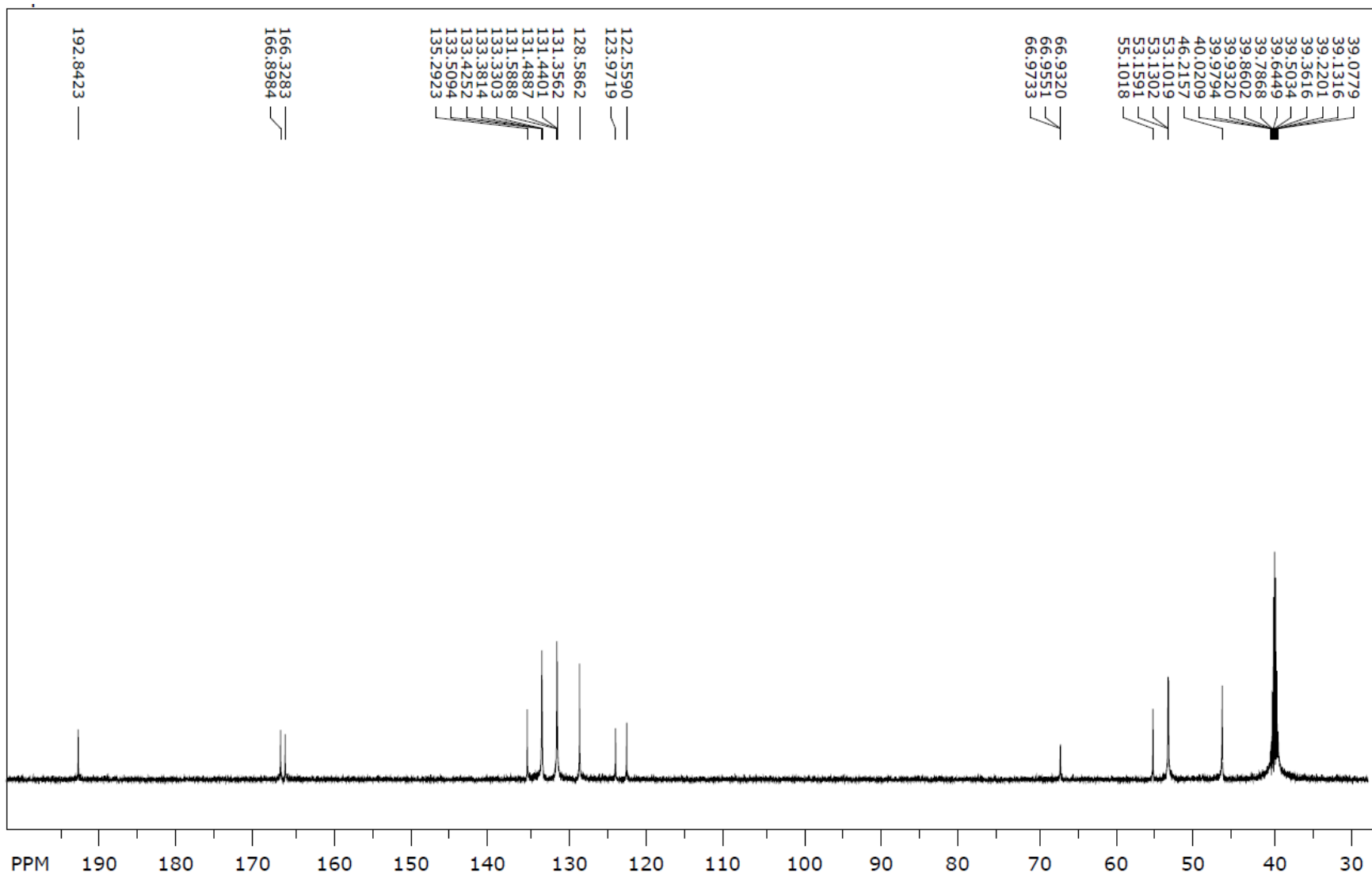
# Maseni spektar (8i)



**<sup>1</sup>H NMR spektr (8i)**



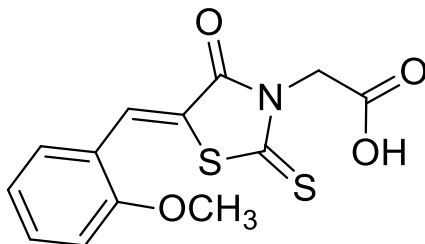
# <sup>13</sup>C NMR spektr (8i)



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**2-(5-(2-metoksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina (8j)**

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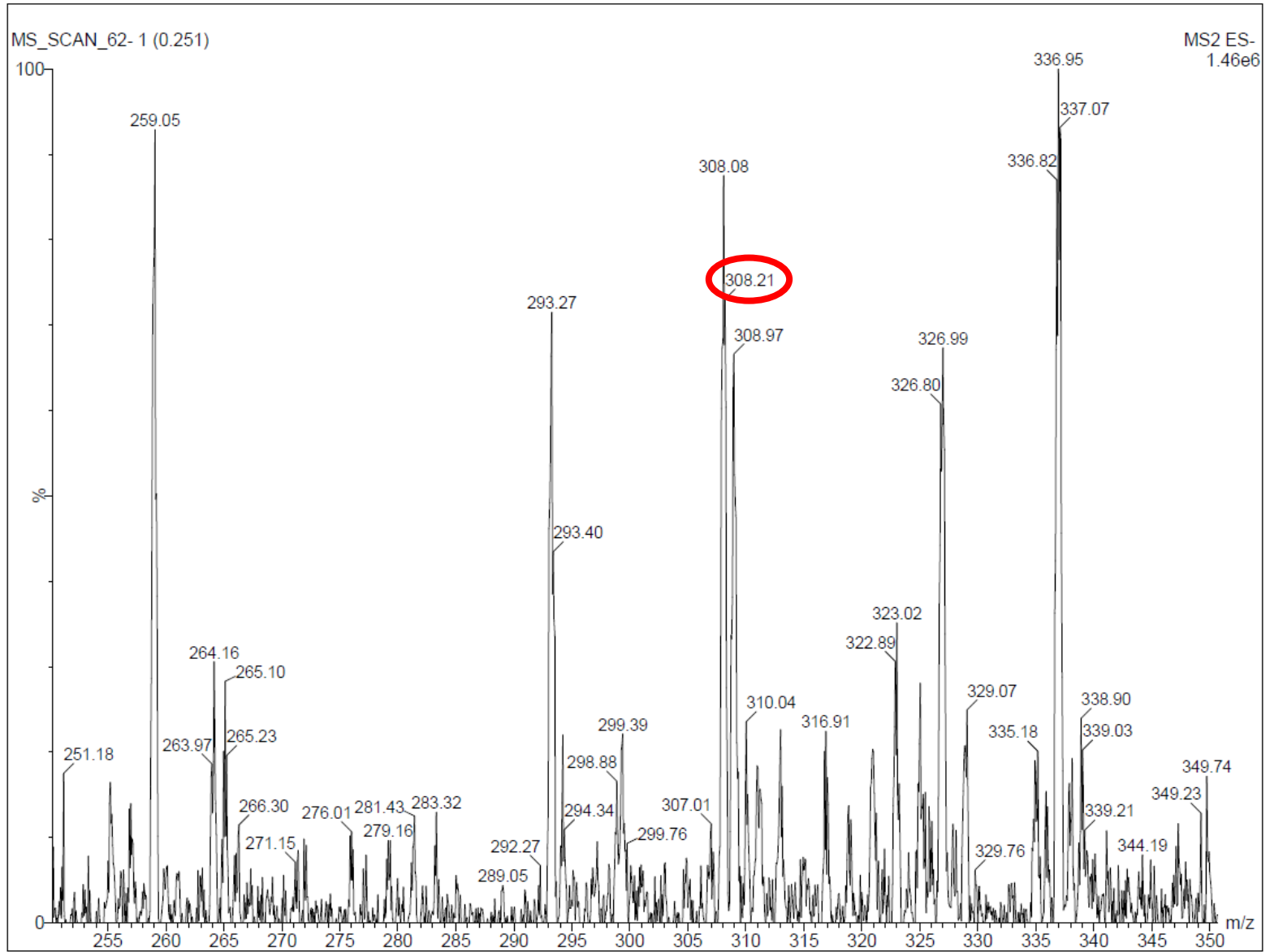


<b>Reaktanti</b>	2-metoksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	309,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>4</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	208 – 211 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,78
<b>LC/MS/MS <i>m/z</i> (M-)</b>	308,21
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,98 (s, 1H, CH), 7,54 (t, <i>J</i> = 7,35 Hz, 1H, arom.), 7,48 (d, <i>J</i> = 7,50 Hz, 1H, arom.), 7,18 (d, <i>J</i> = 8,34 Hz, 1H, arom.), 7,13 (t, <i>J</i> = 7,50 Hz, 1H, arom.), 4,72 (s, 2H, CH <sub>2</sub> ), 3,92 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,76; 167,46; 166,27; 158,15; 133,50; 130,33; 129,23; 121,85; 121,27; 112,06; 55,77; 45,06.

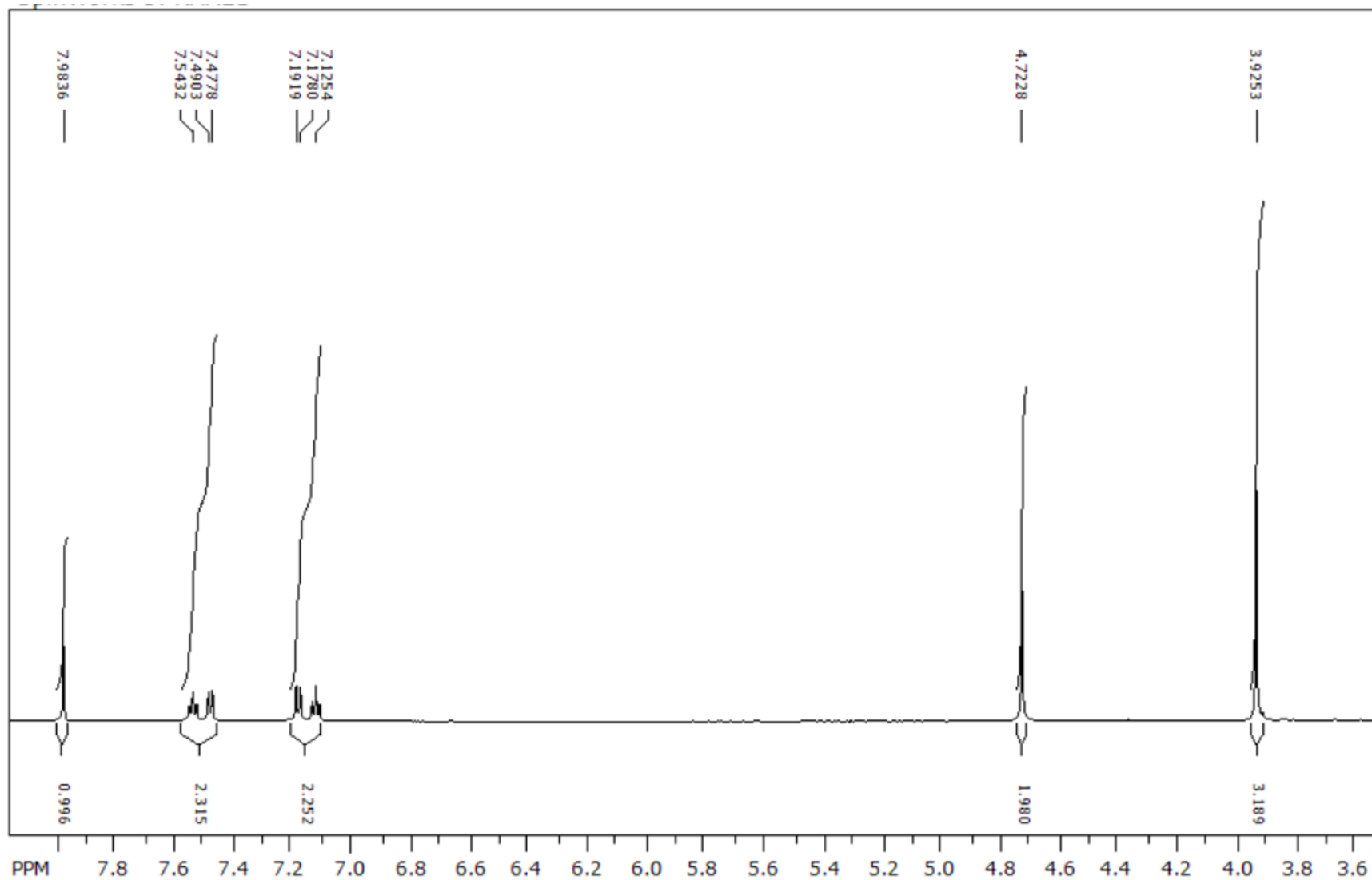
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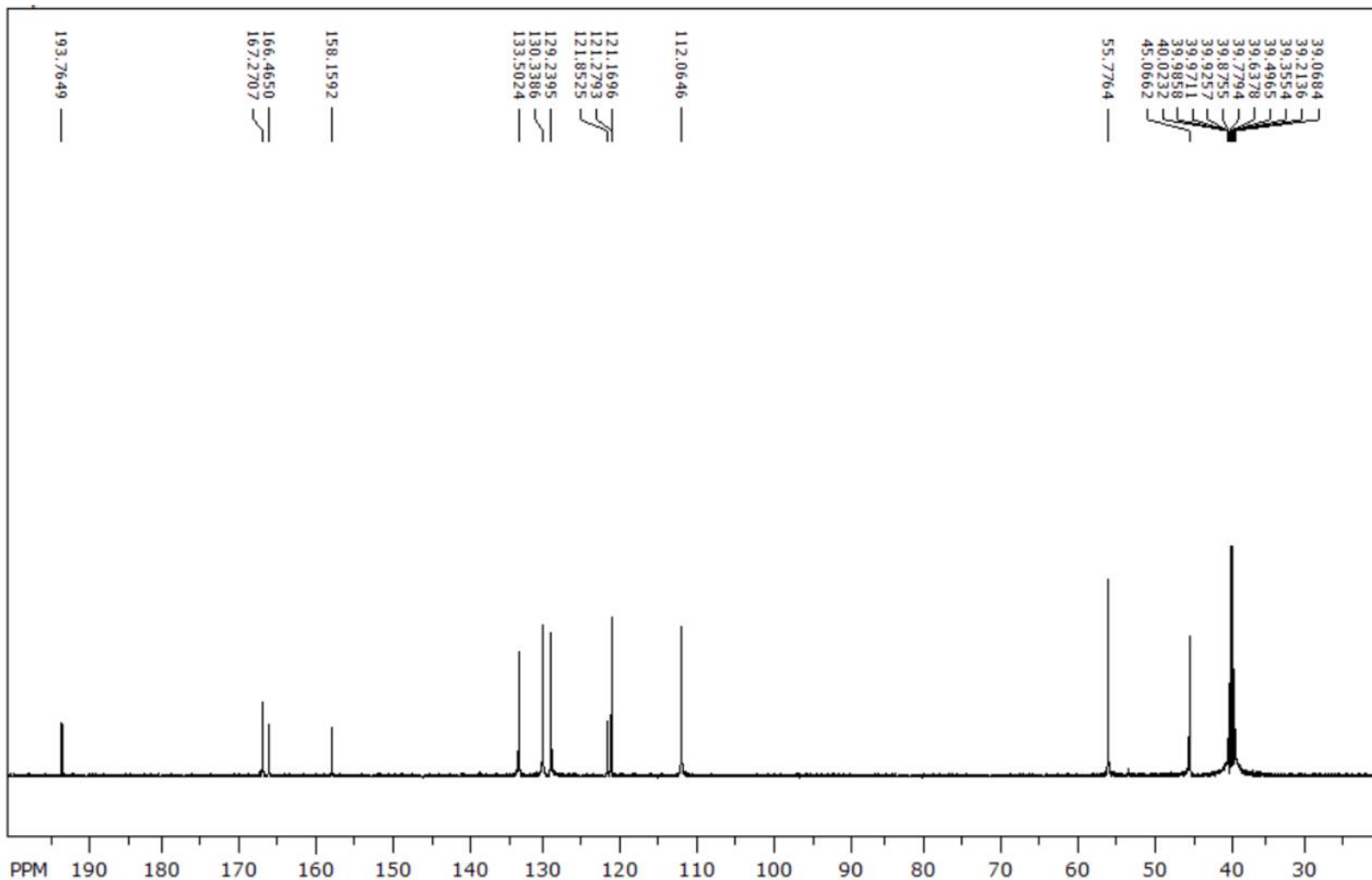
# Maseni spektar (8j)



<sup>1</sup>H NMR spektr (8j)



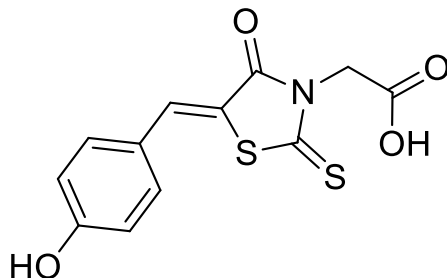
**<sup>13</sup>C NMR spektr (8j)**



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**2-(5-(4-hidroksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8k)**

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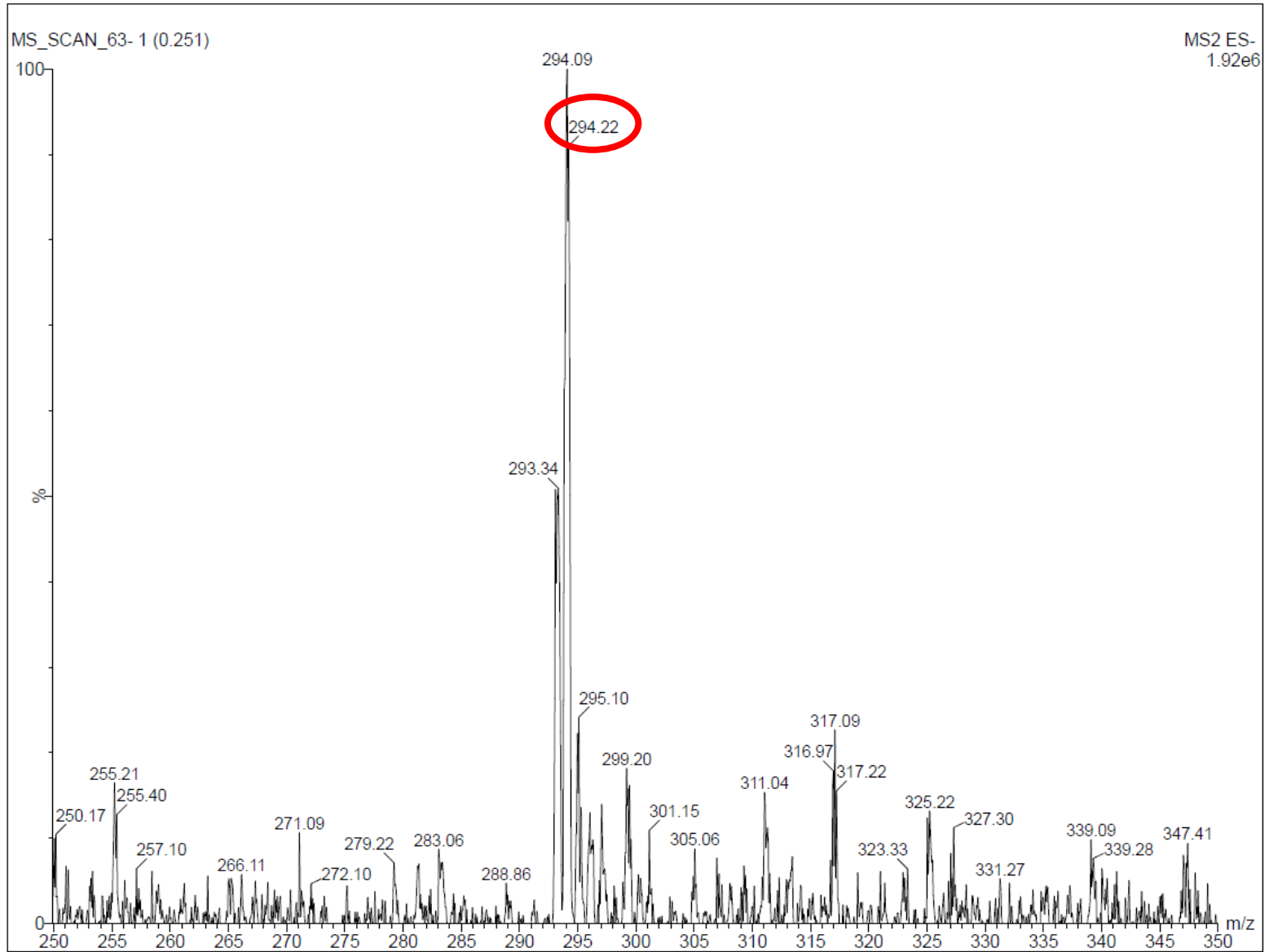


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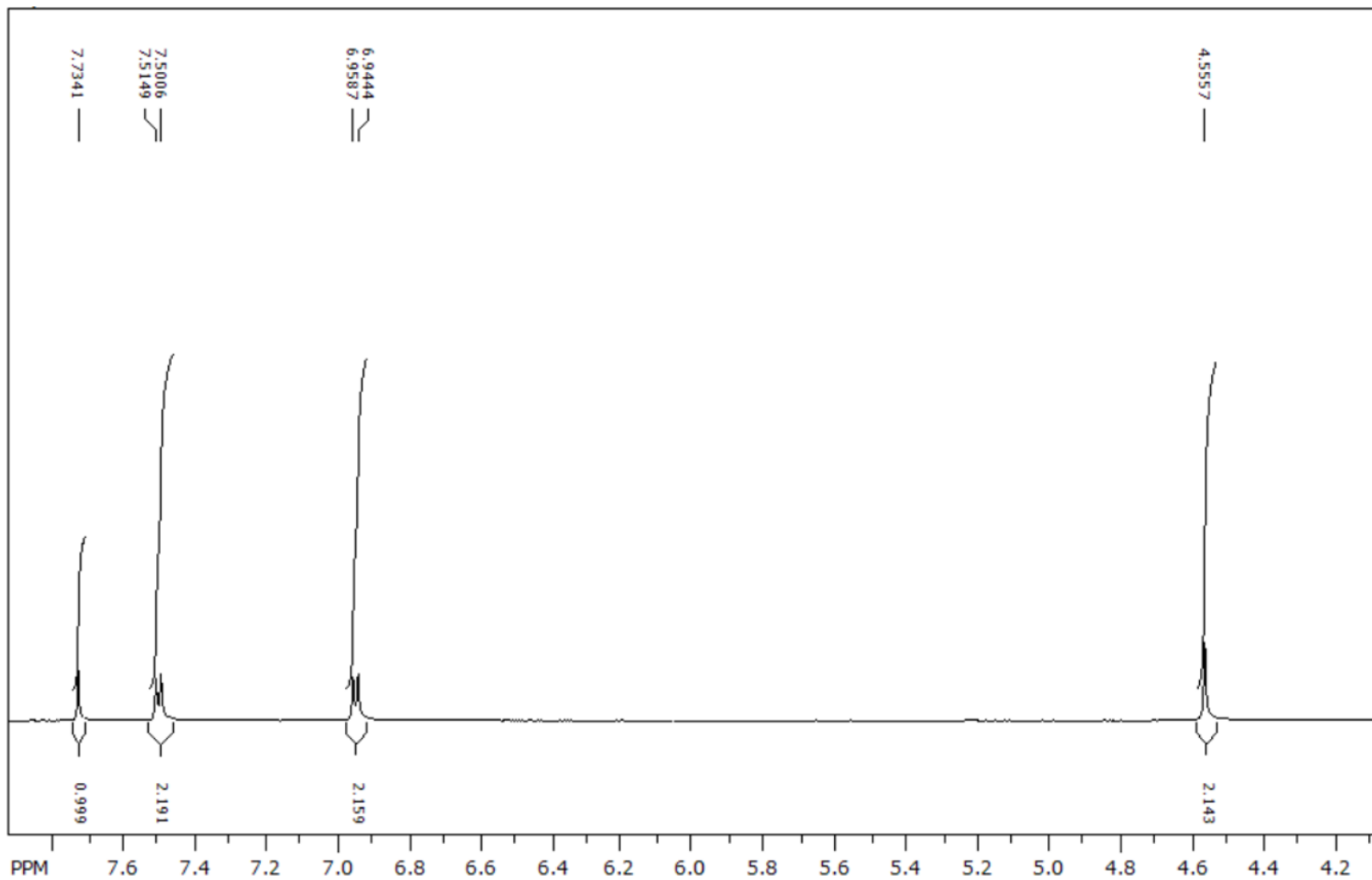
<b>Reaktanti</b>	4-hidroksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	295,33 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>4</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	>300 °C (lit. >300°C, Krátky i sur., 2017; >300°C, Zhou i sur., 2006 )
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,60
<b>LC/MS/MS m/z (M-)</b>	294,22
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,73 (s, 1H, CH), 7,51 (d, <i>J</i> = 8,58 Hz, 2H, arom.), 6,95 (d, <i>J</i> = 8,58 Hz, 2H, arom.), 4,55 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,06; 167,13; 166,71; 161,06; 133,89; 133,28; 123,73; 117,44; 116,68; 46,41.

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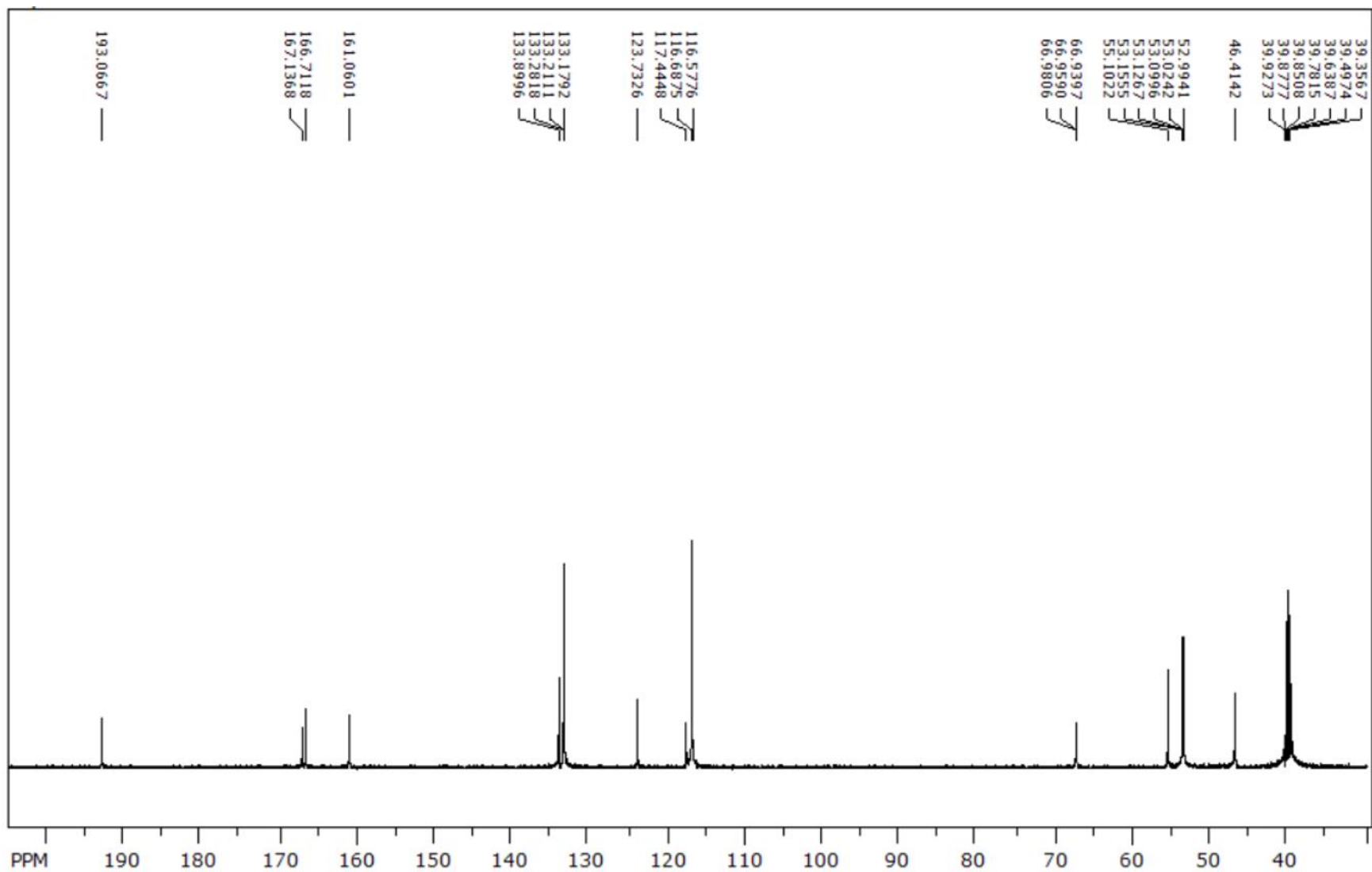
# Maseni spektar (8k)



<sup>1</sup>H NMR spektr (8k)



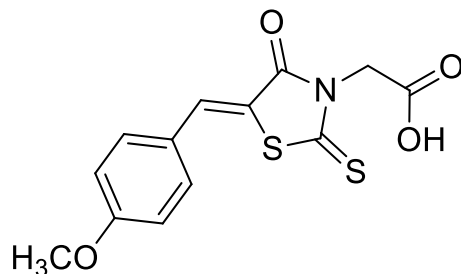
<sup>13</sup>C NMR spektar (8k)



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**2-(5-(4-metoksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8l)**

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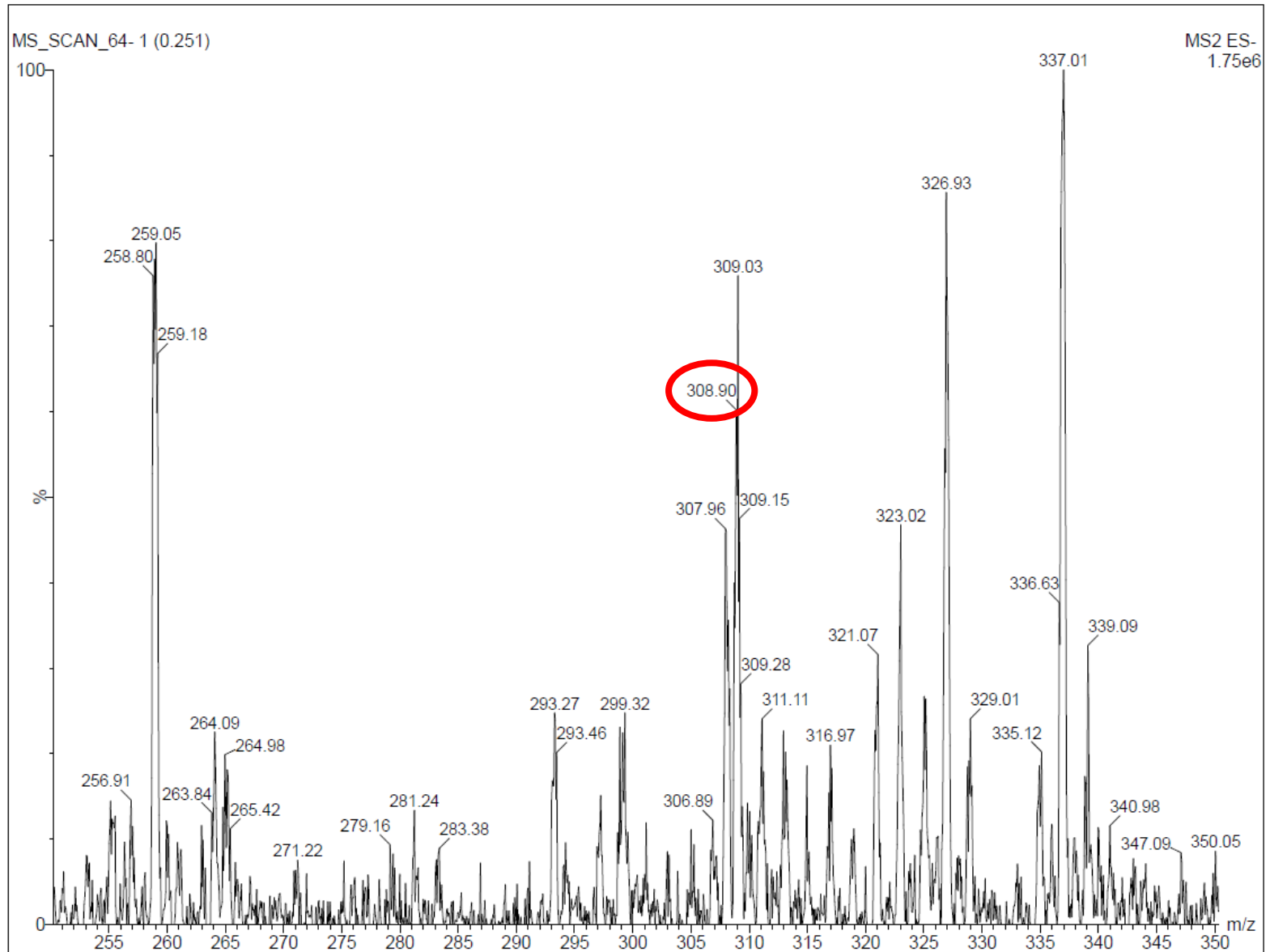
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<b>Reaktanti</b>	4-metoksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	309,36 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>4</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	242 – 244 °C
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,78
<b>LC/MS/MS m/z (M-)</b>	308,90
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,85 (s, 1H, CH), 7,65 (d, <i>J</i> = 8,76 Hz, 2H, arom.), 7,14 (d, <i>J</i> = 8,82 Hz, 2H, arom.), 4,73 (s, 2H, CH <sub>2</sub> ), 3,85 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,06; 167,29; 166,39; 161,73; 134,12; 133,08; 124,34; 118,43; 115,19; 55,59; 44,95.

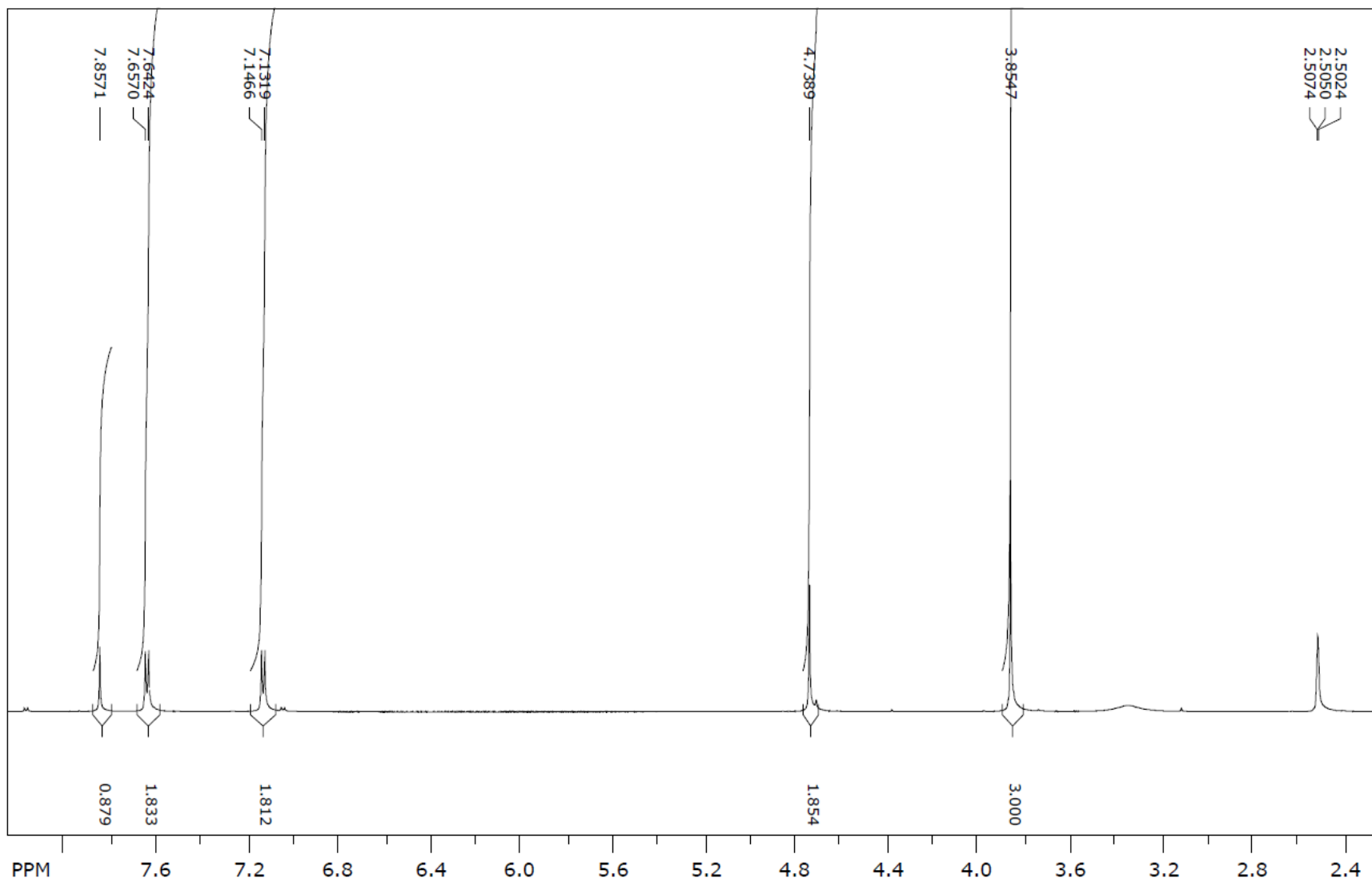
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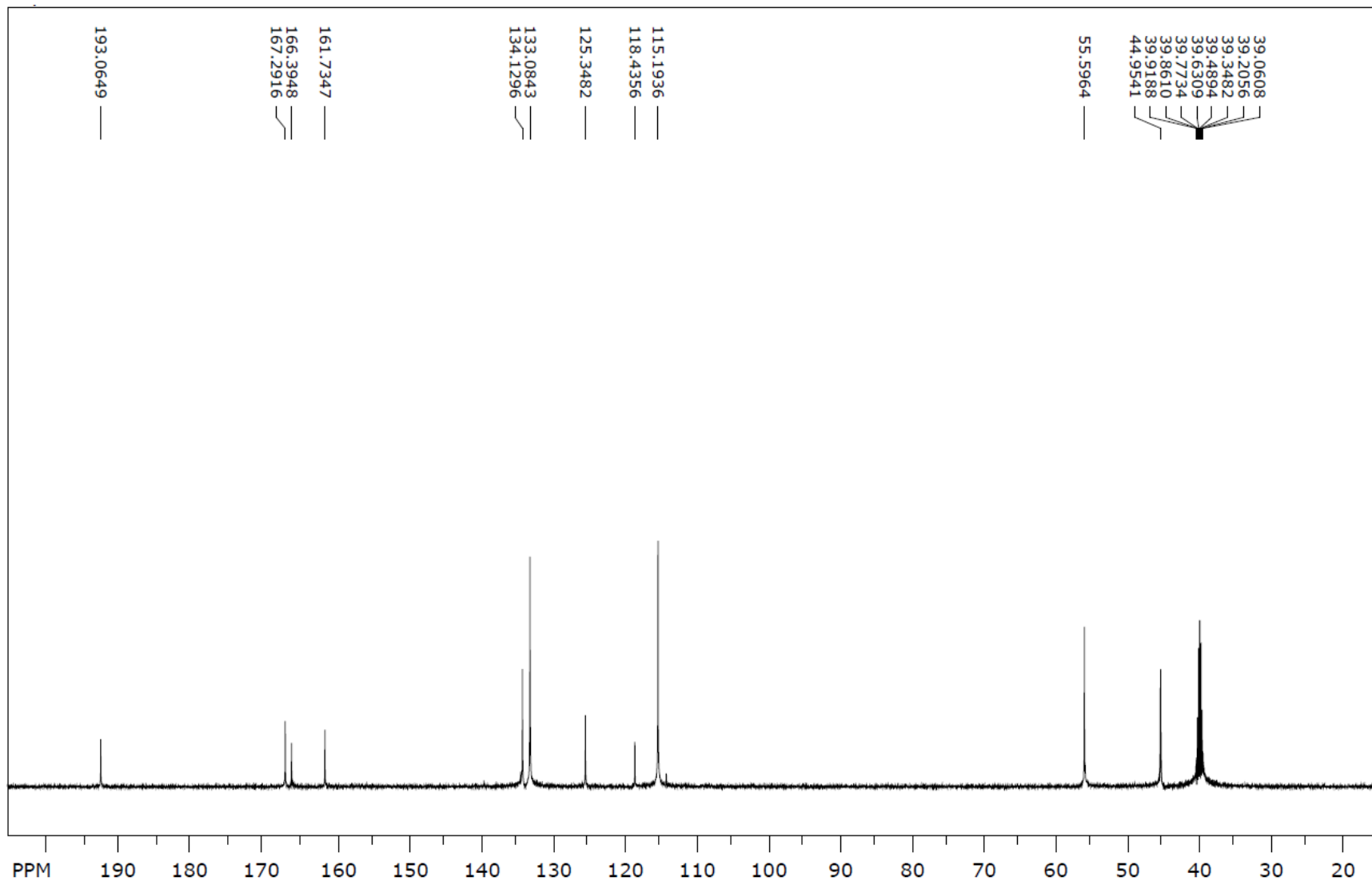
# Maseni spektr (8l)



**<sup>1</sup>H NMR spektr (8I)**



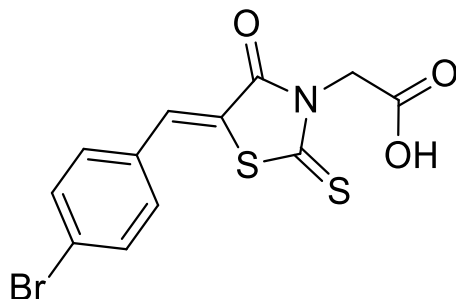
**<sup>13</sup>C NMR spektr (8l)**



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**2-(5-(4-brombenziliden)-4-okso-2-tioksotiazolidin-3-il) octena kiselina  
(8m)**

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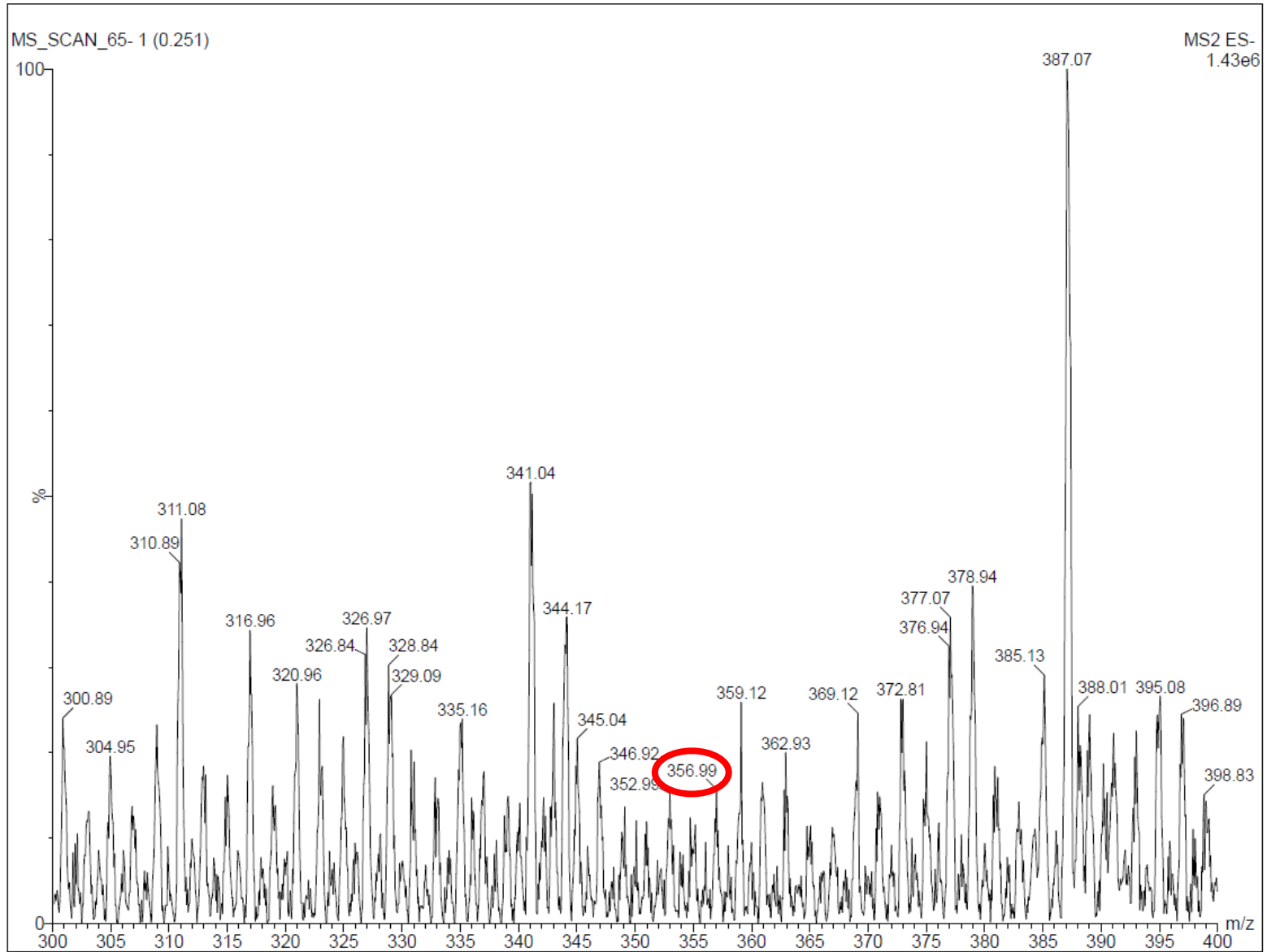


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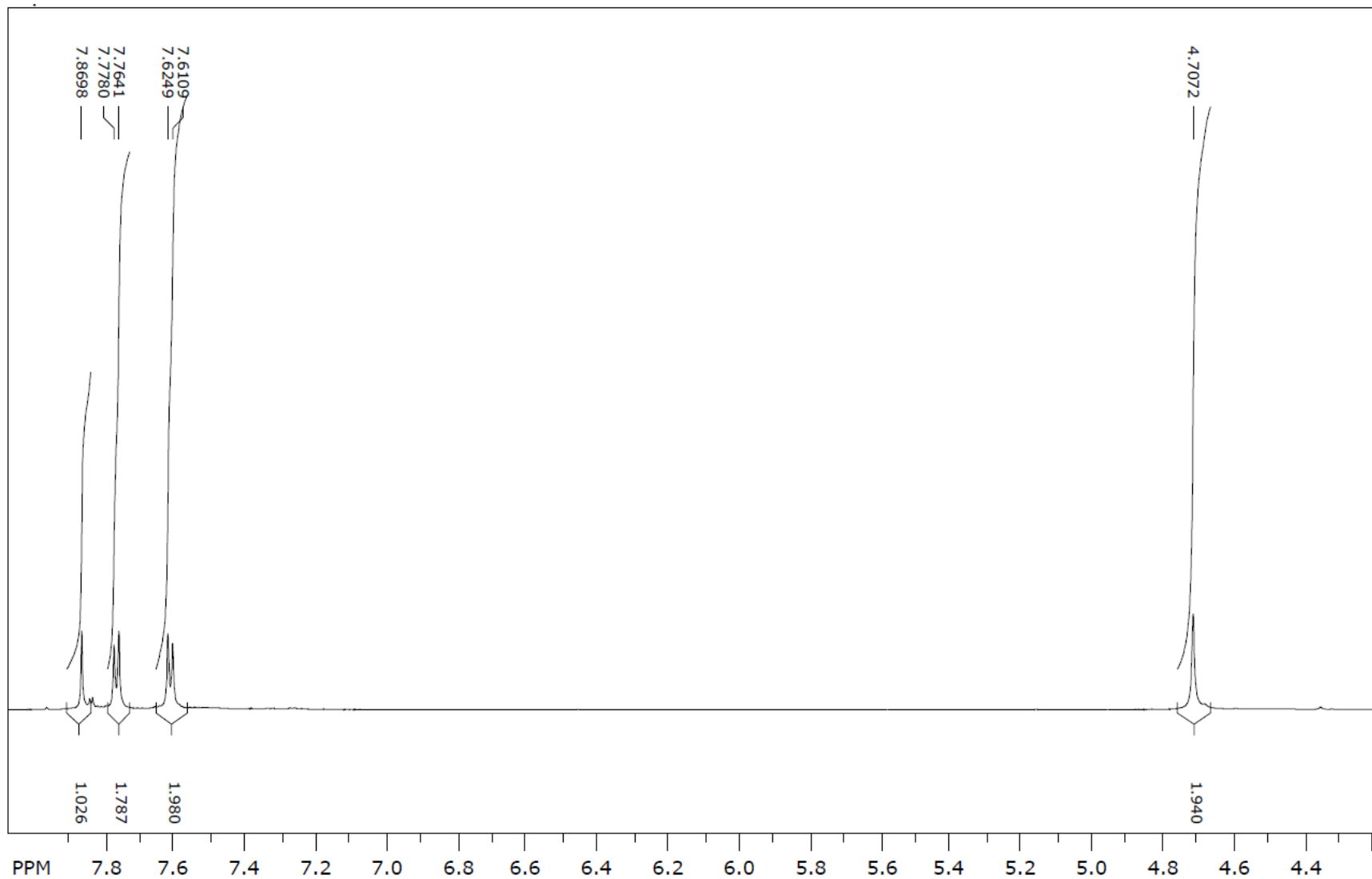
<b>Reaktanti</b>	4-brombenzalhid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	358,23 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>8</sub> BrNO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	228 – 231 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,79
<b>LC/MS/MS <i>m/z</i> (M-)</b>	356,99
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,86 (s, 1H, CH), 7,77 (d, <i>J</i> = 8,34 Hz, 2H, arom.), 7,62 (d, <i>J</i> = 8,40 Hz, 2H, arom.), 4,70 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,92; 166,32; 132,51; 132,42; 132,03; 124,80; 122,76; 45,38.

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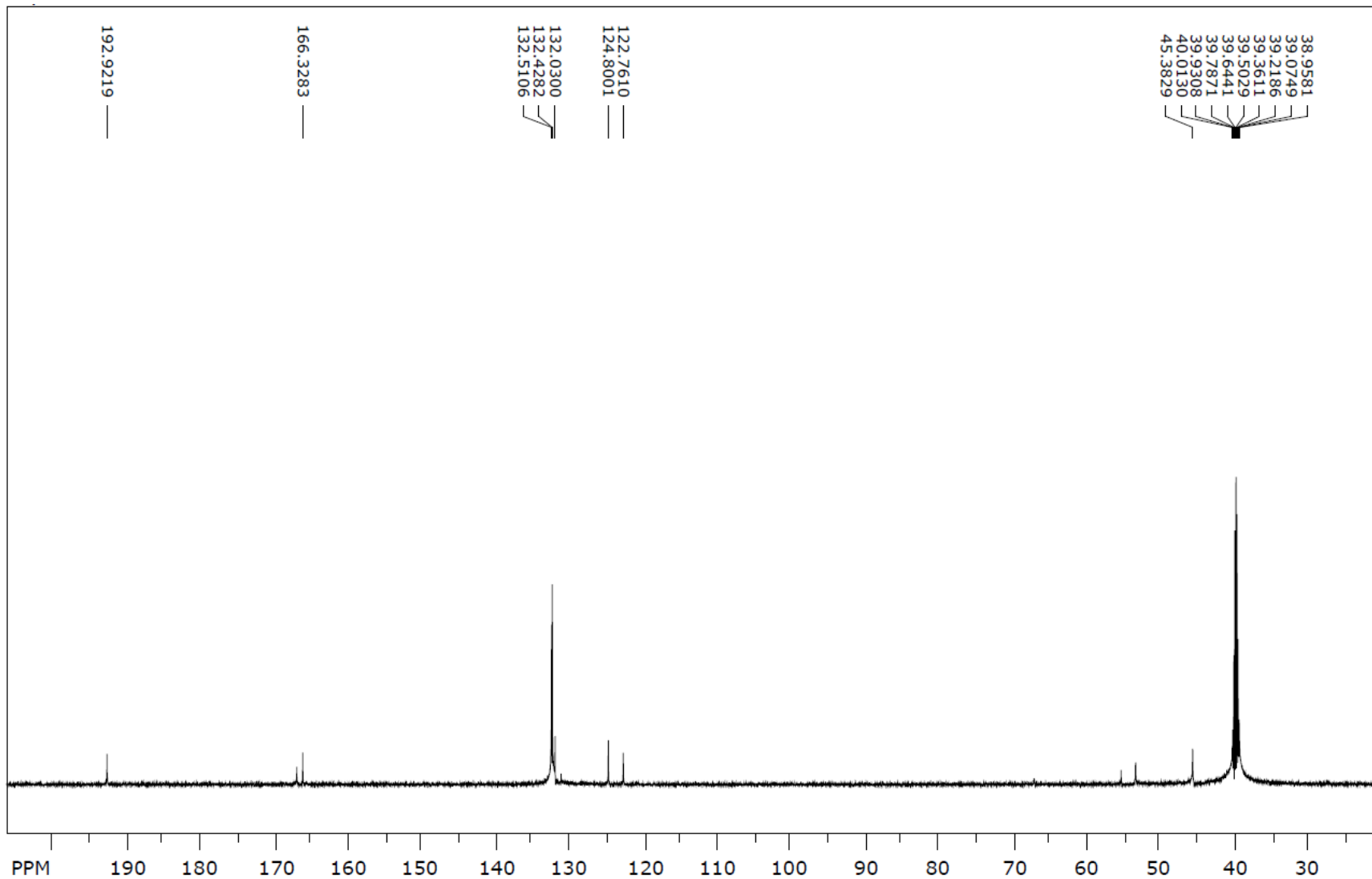
# Maseni spektar (8m)



**<sup>1</sup>H NMR spektr (8m)**



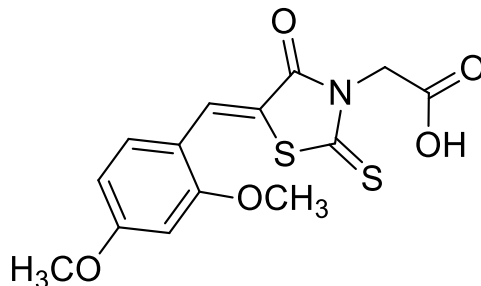
**<sup>13</sup>C NMR spektr (8m)**



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**2-(5-(2,4-dimetoksibenziliden)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8n)**

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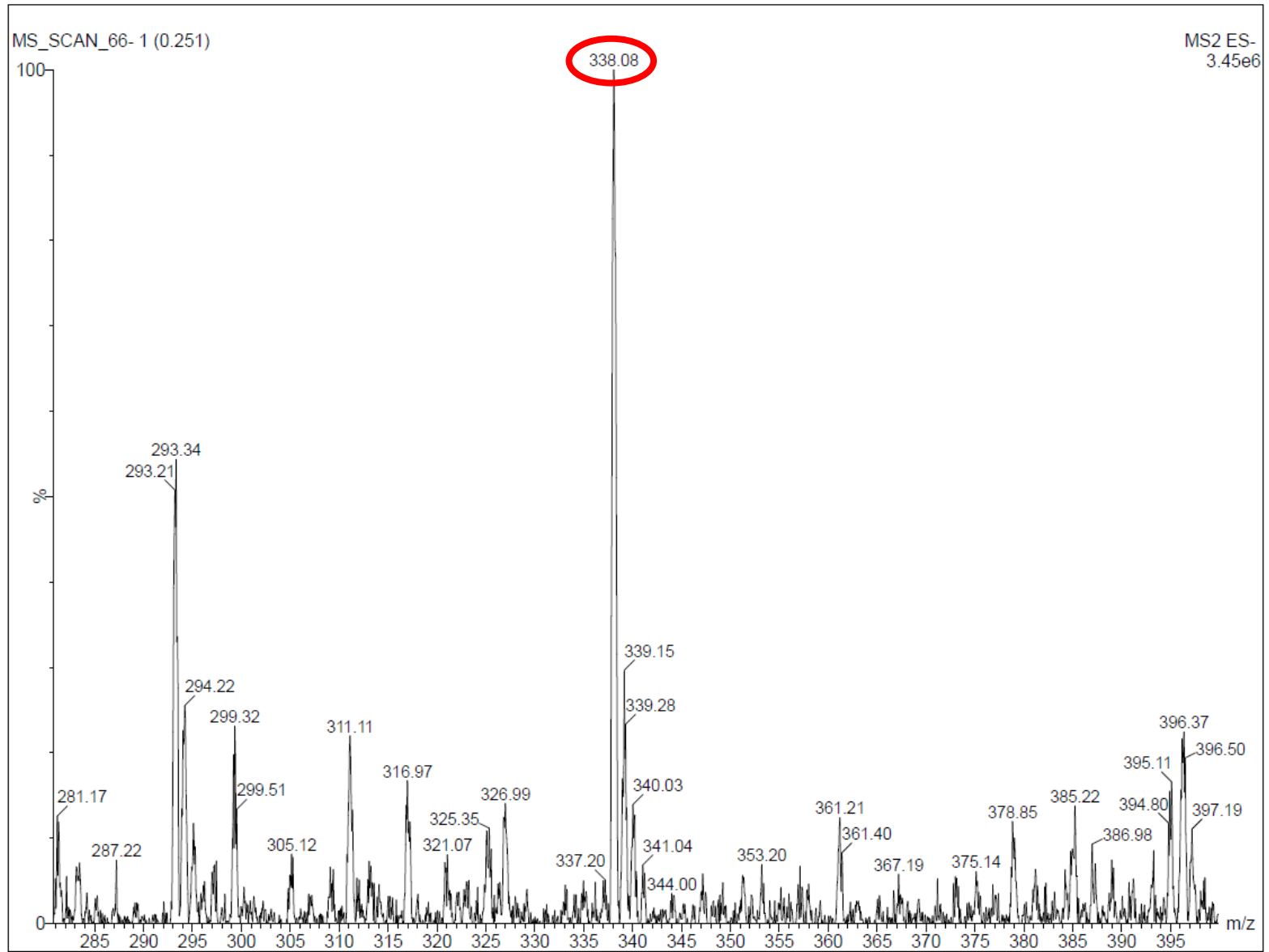
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<b>Reaktanti</b>	2,4-dimetoksibenzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	339,39 g/mol
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>5</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	224 – 225 °C
<b>Boja kristala</b>	Crvena
<b>R<sub>f</sub></b>	0,71
<b>LC/MS/MS m/z (M-)</b>	338,09
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,91 (s, 1H, CH), 7,42 (d, <i>J</i> = 8,58 Hz, 1H, arom.), 6,72 (t, <i>J</i> = 8,52; 11,04 Hz, 2H, arom.), 4,68 (s, 2H, CH <sub>2</sub> ), 3,92 (s, 3H, OCH <sub>3</sub> ), 3,86 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,55; 167,30; 166,63; 164,05; 160,13; 132,18; 129,26; 118,12; 114,22; 107,10; 98,55; 55,93; 55,77; 45,25.

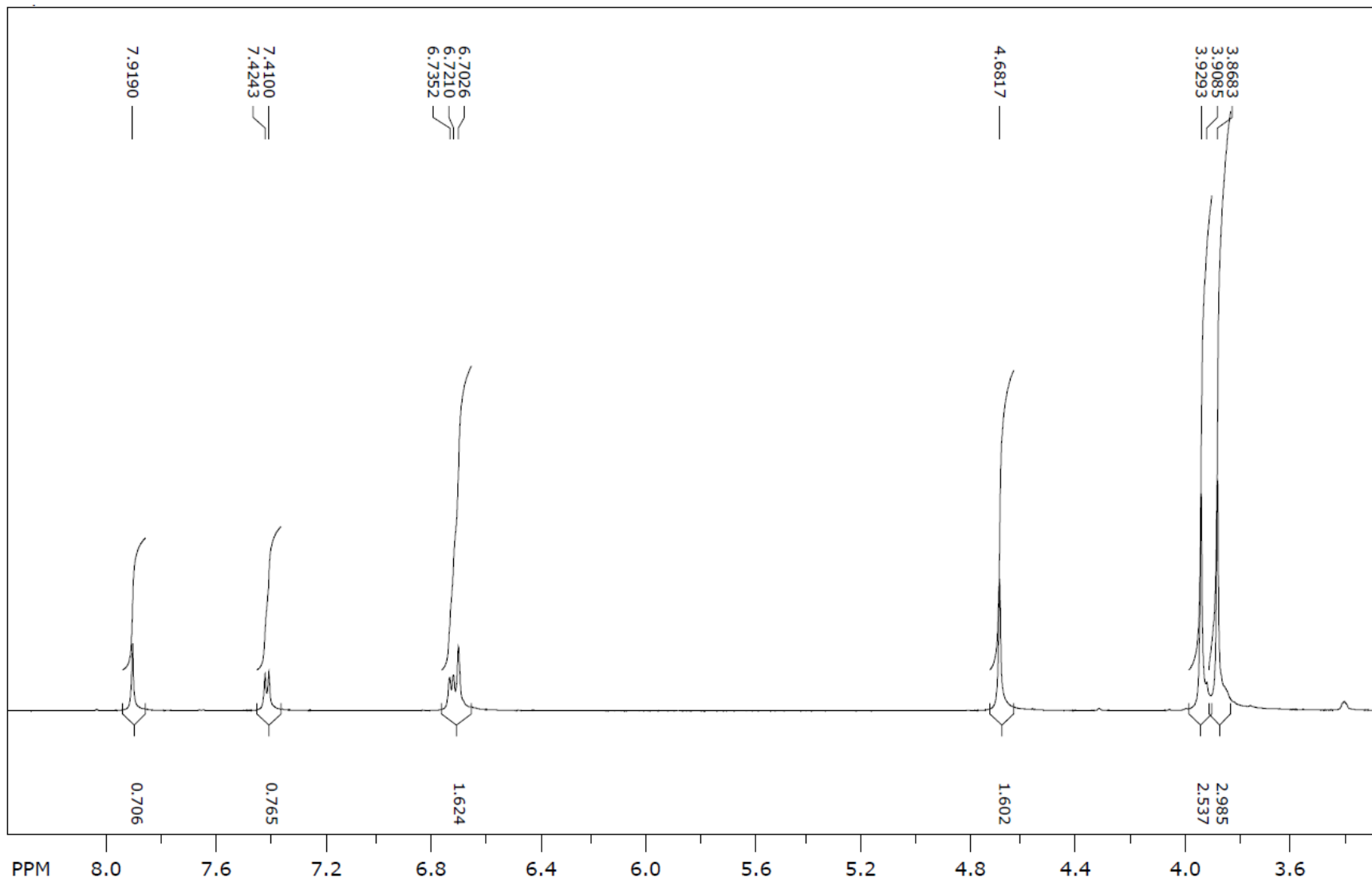
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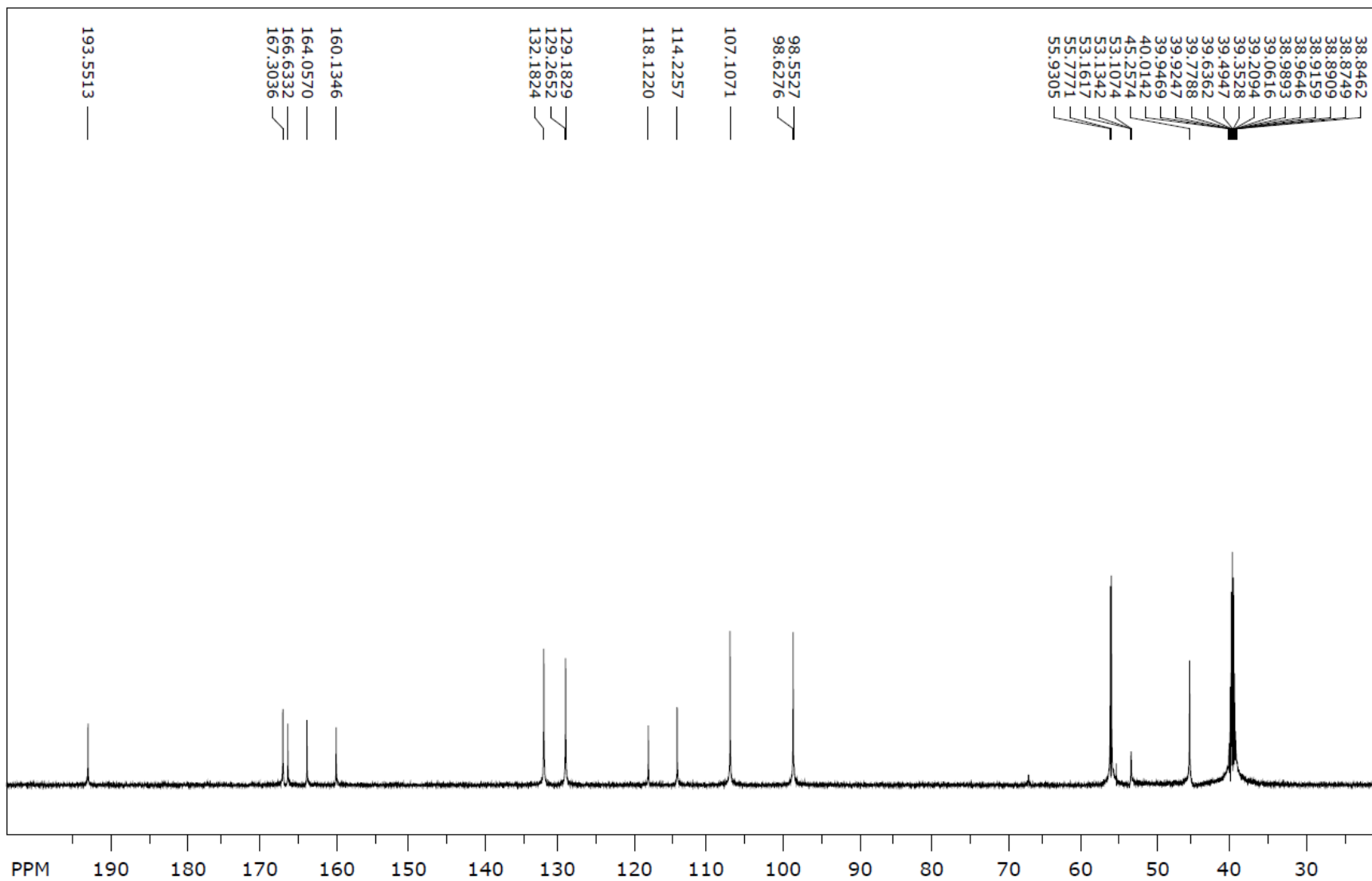
# Maseni spektar (8n)



**<sup>1</sup>H NMR spektr (8n)**



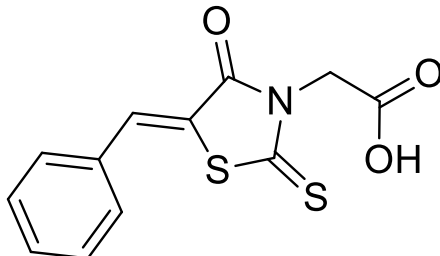
# <sup>13</sup>C NMR spektr (8n)



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**2-(5-benziliden-4-okso-2-tioksotiazolidin-3-il) octena kiselina (8o)**

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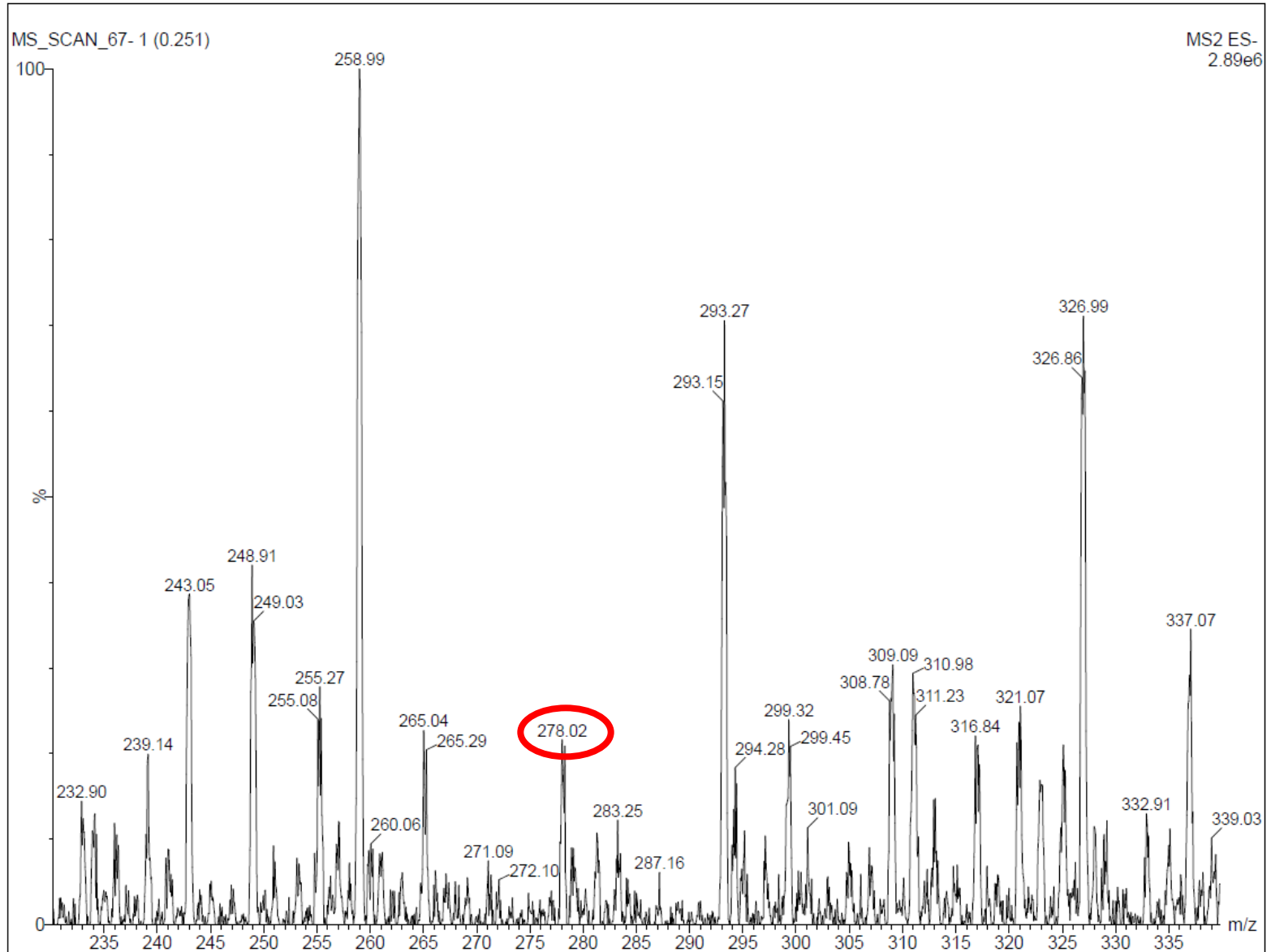


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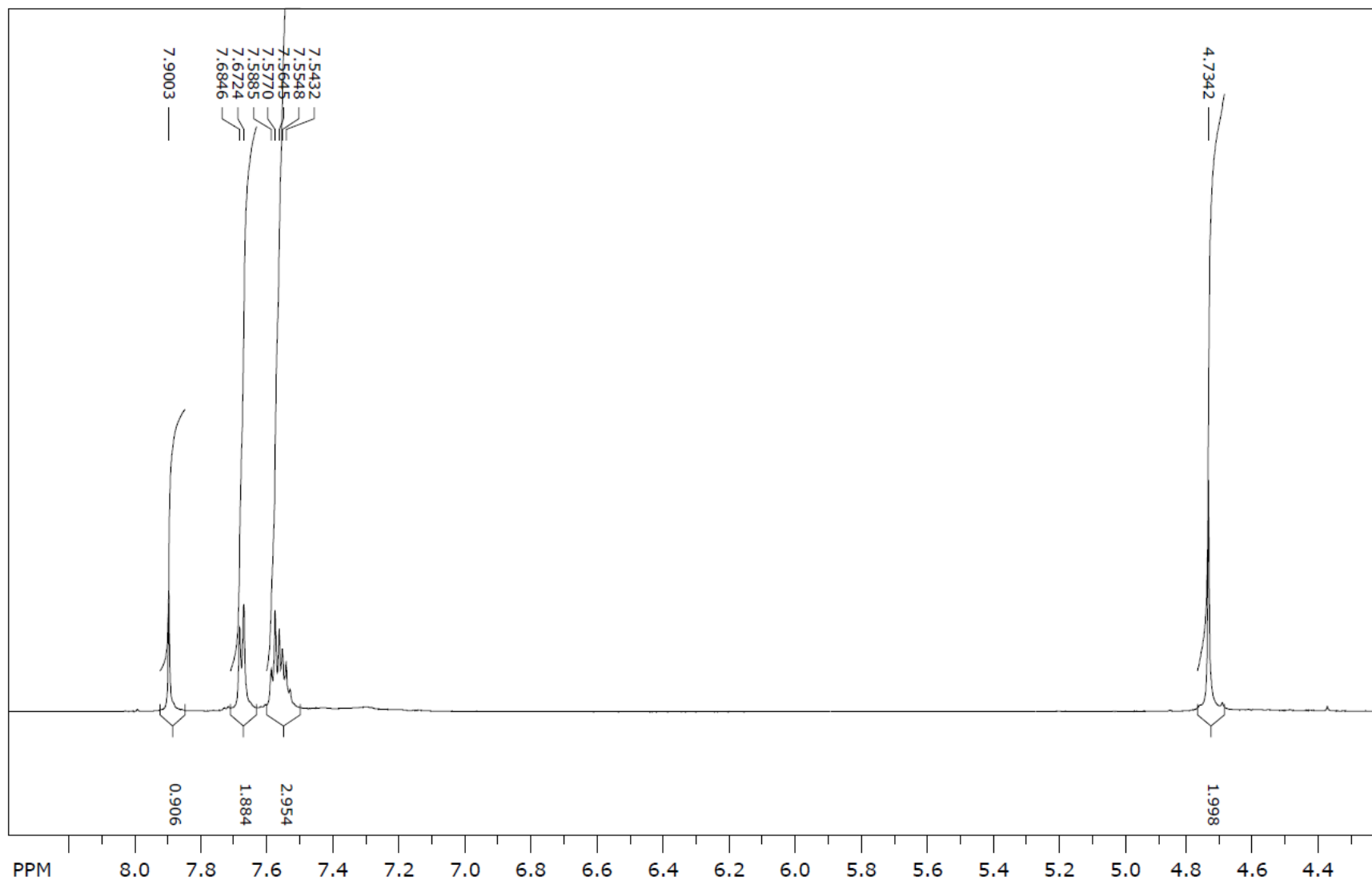
<b>Reaktanti</b>	Benzaldehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	279,33 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>9</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	217 – 219 °C (lit. 202 – 205 °C, Zhou i sur., 2006)
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,72
<b>LC/MS/MS m/z (M-)</b>	278,02
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,90 (s, 1H, CH), 7,68 (d, <i>J</i> = 7,32 Hz, 2H, arom.), 7,54 – 7,59 (m, 3H, arom.), 4,73 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 193,25; 167,22; 166,34; 133,85; 132,80; 131,17; 130,72; 129,52; 121,88; 45,15.

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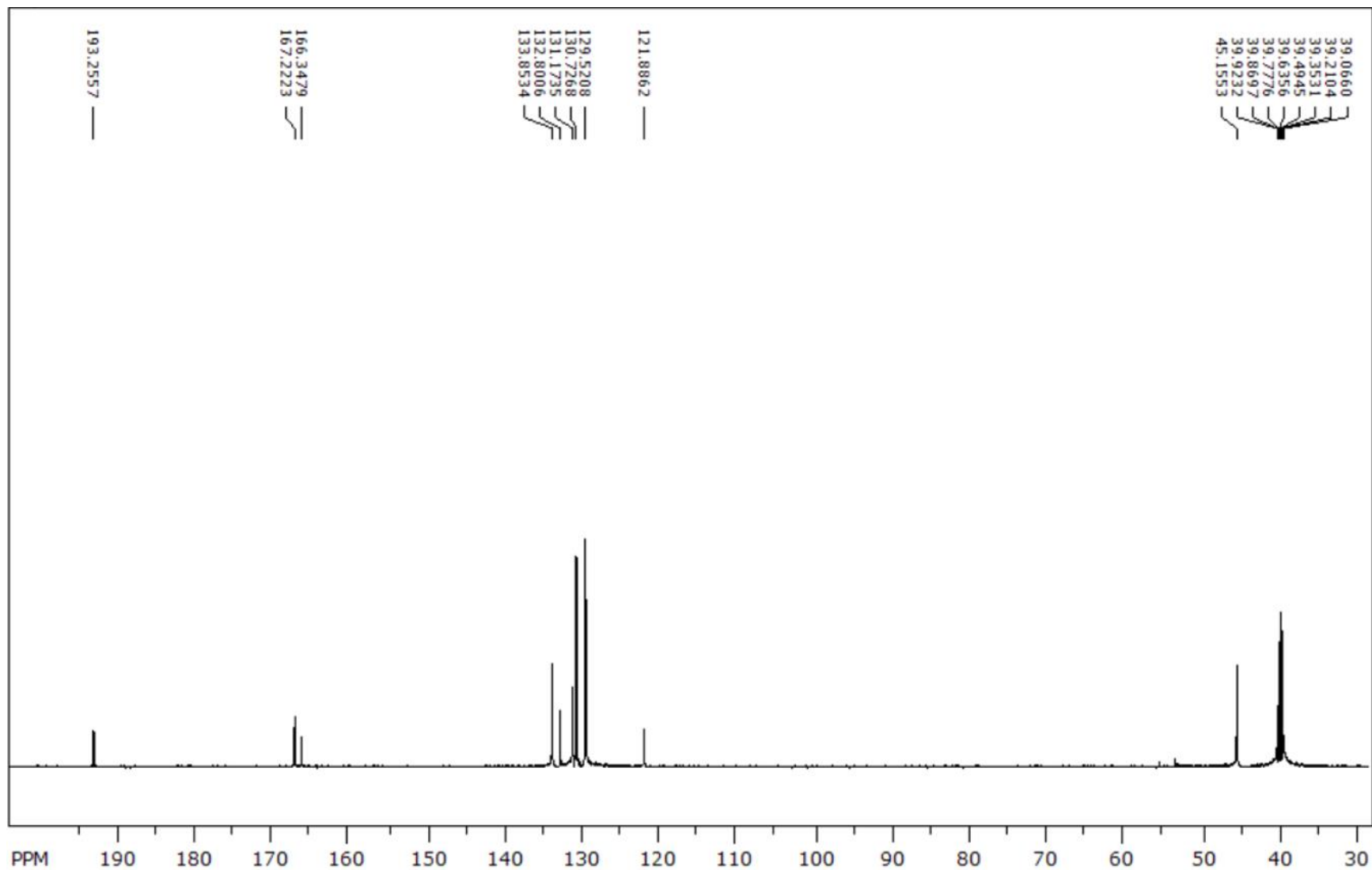
# Maseni spektr (8o)



**<sup>1</sup>H NMR spektr (8o)**



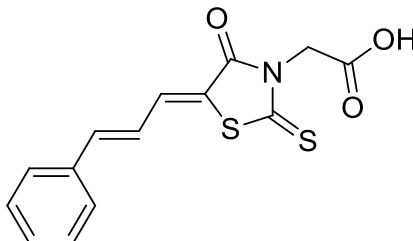
<sup>13</sup>C NMR spektr (8o)



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**2-(4-okso-5-(3-fenilaliliden)-2-tioksotiazolidin-3-il) octena kiselina (8p)**

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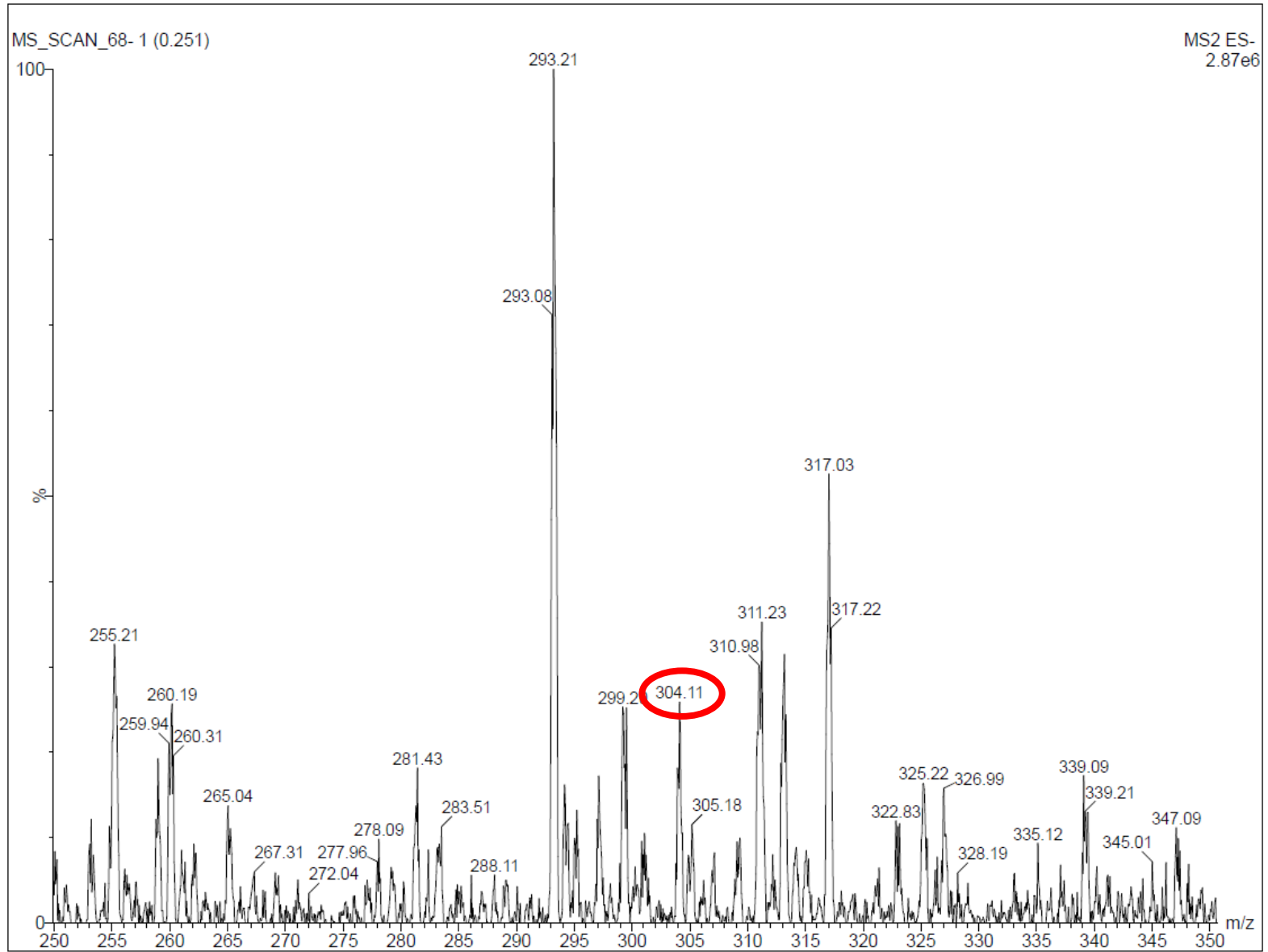


<b>Reaktanti</b>	Cimetaldhid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	305,37
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>11</sub> NO <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	189 – 194 °C
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,73
<b>LC/MS/MS <i>m/z</i> (M-)</b>	304,11
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 7,73 (d, <i>J</i> = 7,08 Hz, 2H, CH), 7,61 (d, <i>J</i> = 11,46 Hz, 1H, CH), 7,41 – 7,46 (m, 5H, arom.), 4,65 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 195,08; 169,46; 167,95; 148,04; 137,66; 136,34; 131,17; 130,40; 125,77; 47,43.

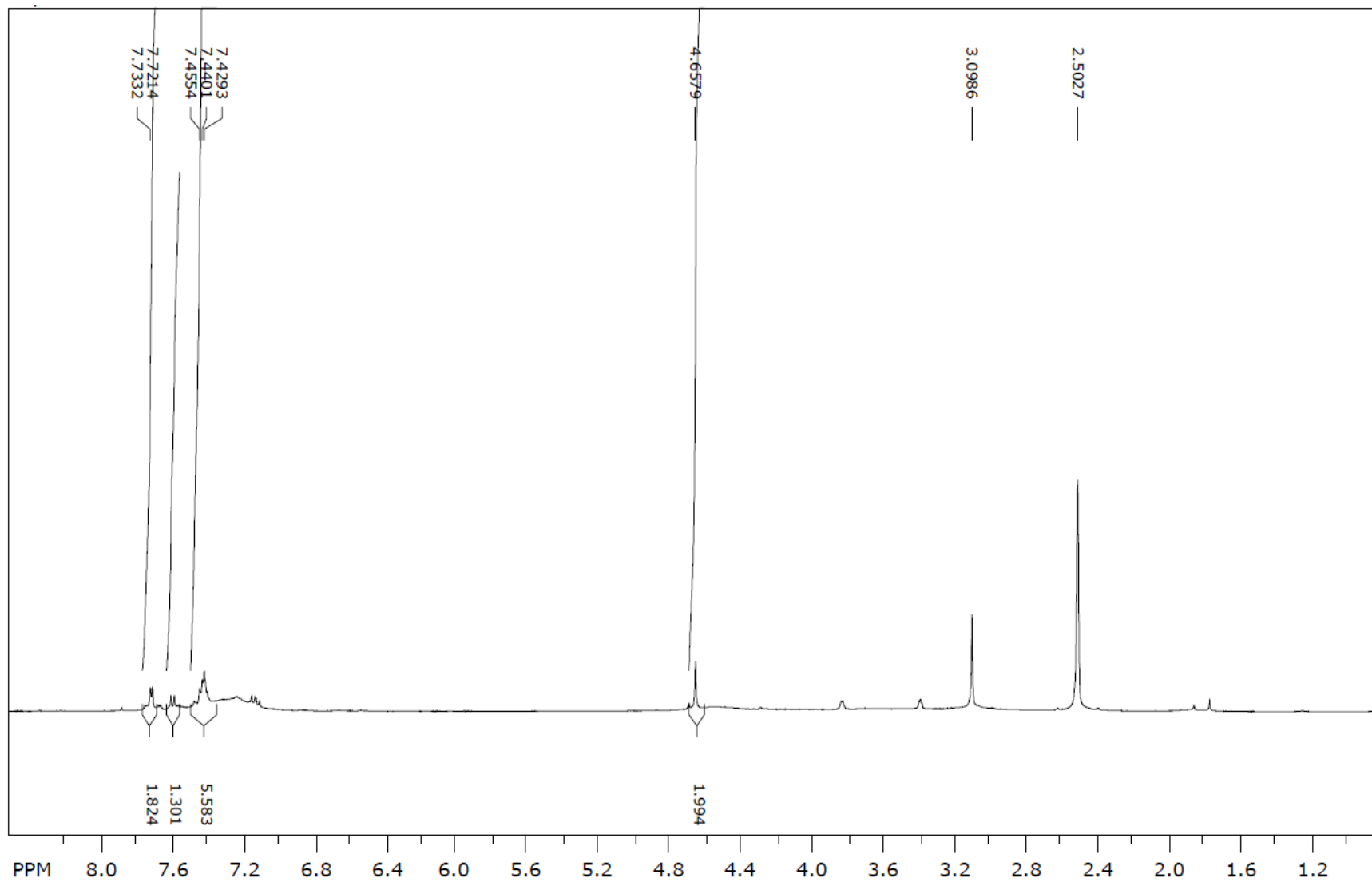
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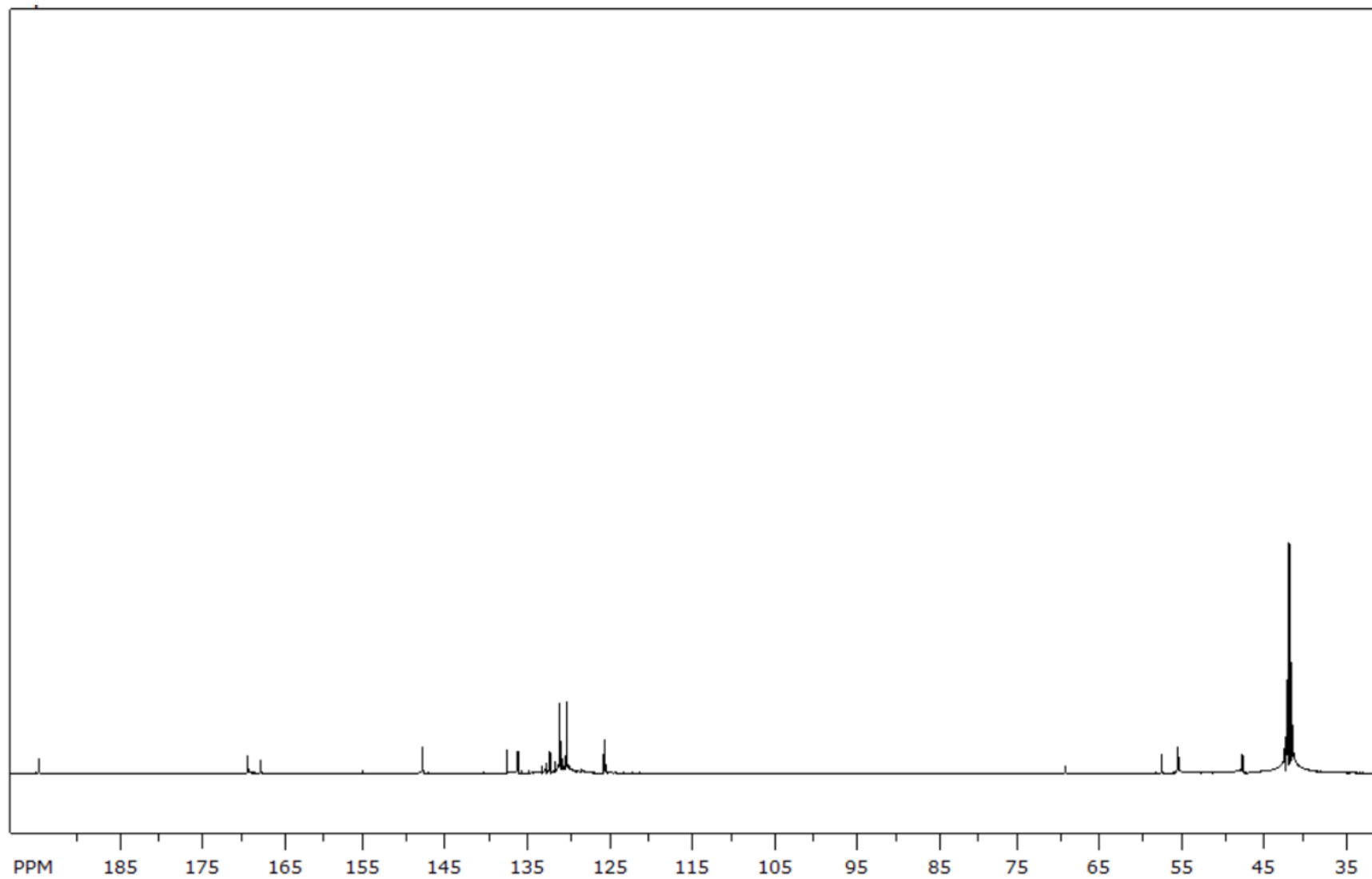
# Maseni spektr (8p)



**<sup>1</sup>H NMR spektr (8p)**



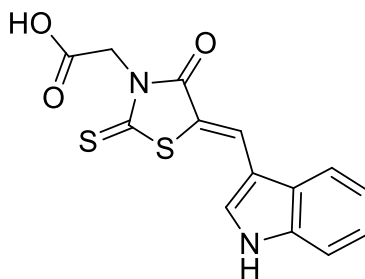
**<sup>13</sup>C NMR spektr (8p)**



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**2-(5-((1H-indol-3-il)metilen)-4-okso-2-tioksotiazolidin-3-il) octena  
kiselina (8q)**

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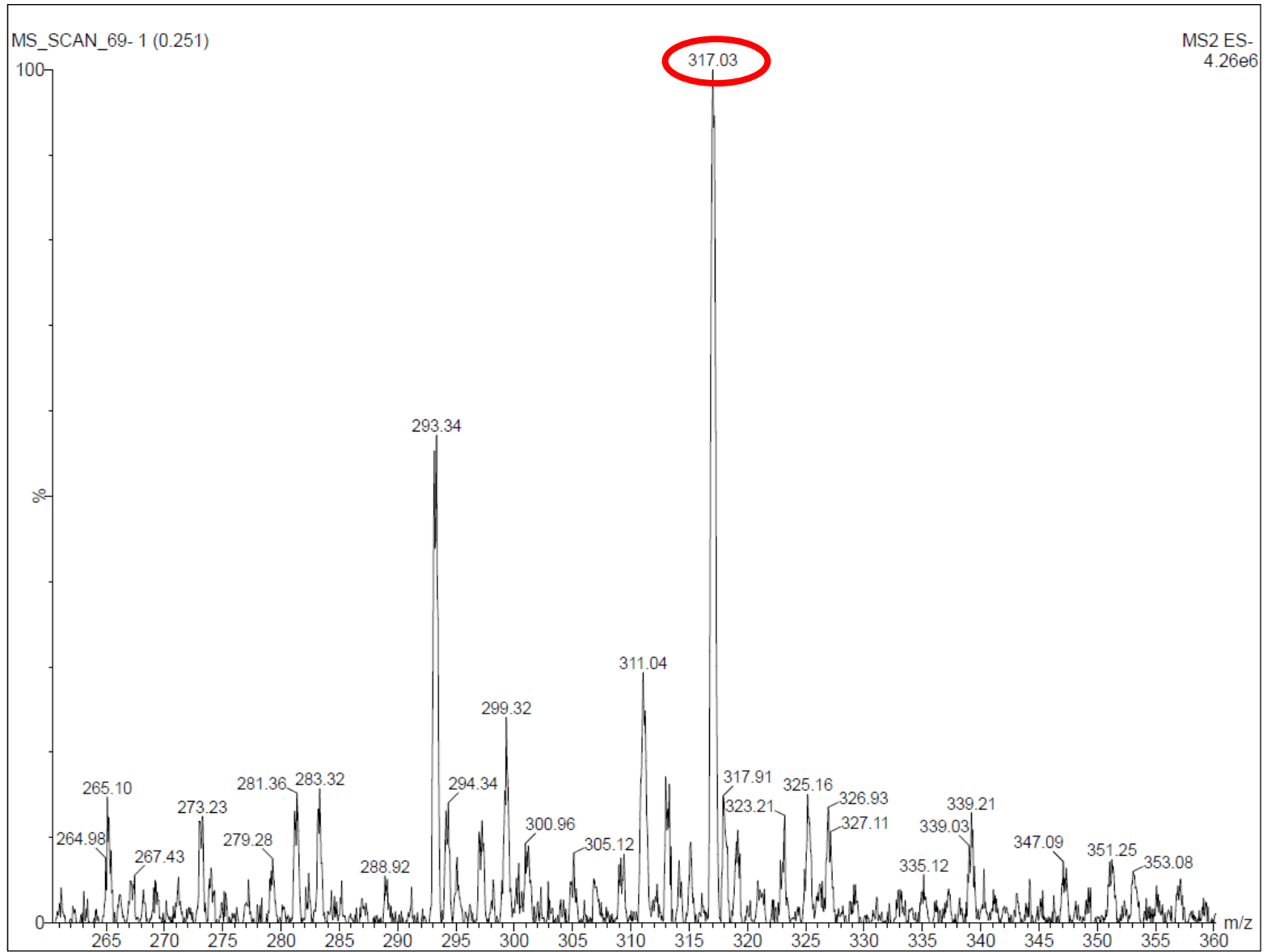


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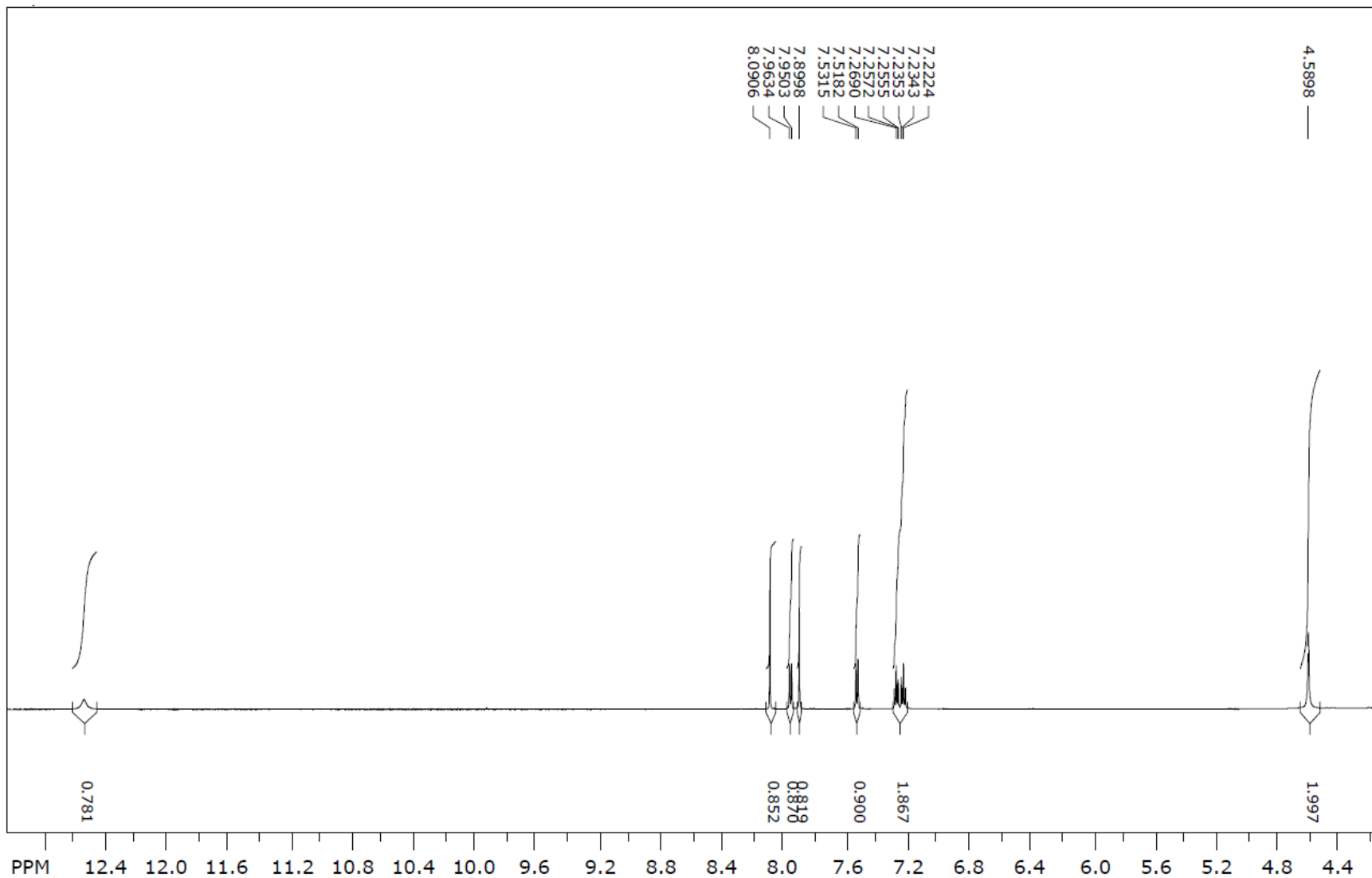
<b>Reaktanti</b>	Indol-3-karboksialdehid (0,7 mmol) i 3-karboksimetilrodanin (0,7 mmol)
<b>Metoda pročišćavanja</b>	Prekristalizacija iz octene kiseline
<b>Molekulska masa</b>	318,37
<b>Molekulska formula</b>	C <sub>14</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
<b>Temperatura tališta</b>	213 – 217 °C
<b>Boja kristala</b>	Svijetlo smeđa
<b>R<sub>f</sub></b>	0,55
<b>LC/MS/MS m/z (M-)</b>	317,03
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,54 (s, 1H, NH), 8,09 (s, 1H, CH), 7,96 (d, <i>J</i> = 7,86 Hz, 1H, arom.), 7,89 (s, 1H, arom.), 7,52 (d, <i>J</i> = 7,98 Hz, 1H, arom.), 7,27 (t, <i>J</i> = 7,05 Hz, 1H, arom.), 7,22 (t, <i>J</i> = 7,77 Hz, 1H, arom.), 4,59 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 192,20; 167,24; 166,31; 136,43; 130,59; 126,75; 126,18; 123,26; 121,46; 118,49; 114,43; 112,58; 111,03; 46,31.

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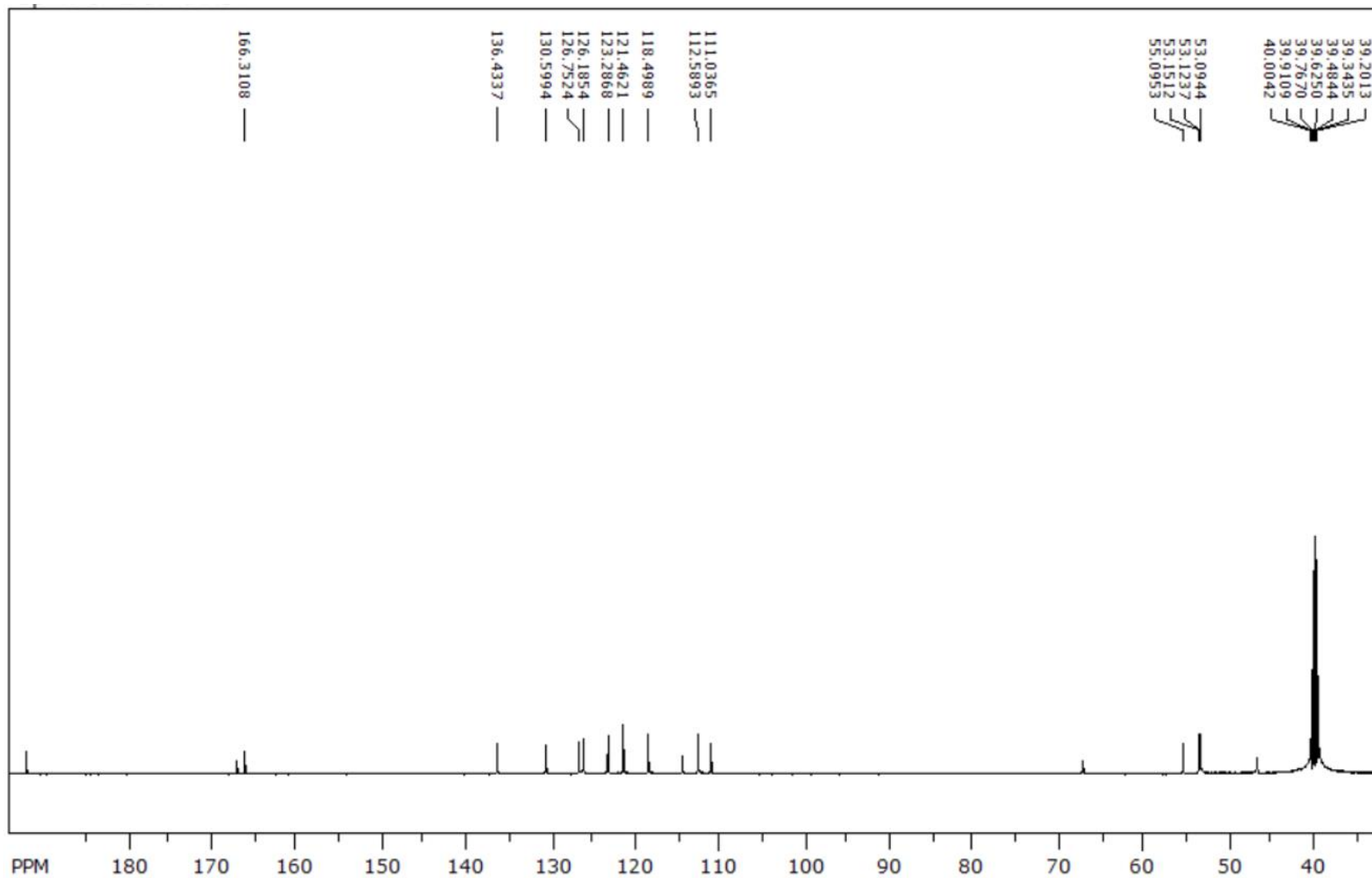
# Maseni spektar (8q)



# <sup>1</sup>H NMR spektr (8q)



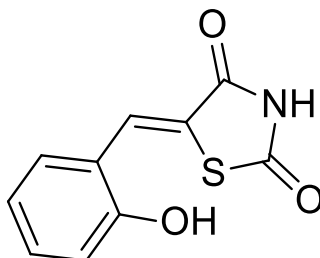
<sup>13</sup>C NMR spektr (8q)



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**5-(2-hidroksibenziliden) tiazolidin-2,4-dion (9a)**

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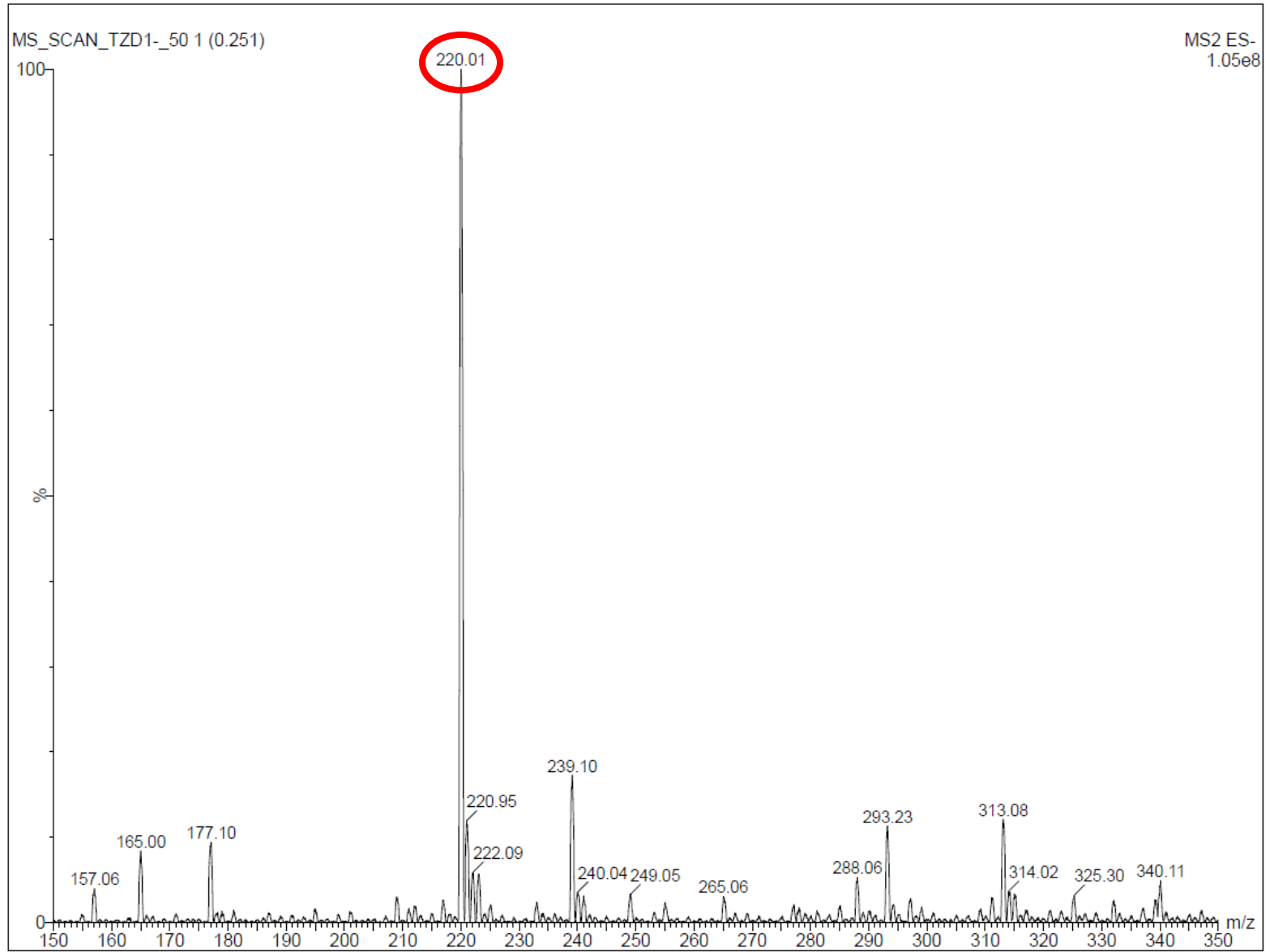


<b>Reaktanti</b>	Salicilaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	221,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> NO <sub>3</sub> S
<b>Temperatura tališta</b>	269 – 272 °C (lit. 276 - 277 °C, Durai Ananda Kumar i sur., 2015; 254 – 256 °C, Ha i sur., 2012)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,64
<b>LC/MS/MS <i>m/z</i> (M-)</b>	220,01
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,48 (s, 1H, NH), 10,48 (s, 1H, OH), 8,00 (s, 1H, CH), 7,30 (q, <i>J</i> = 7,92; 9,84; 7,26 Hz, 2H, arom.), 6,93 (q, <i>J</i> = 8,40; 9,48; 7,50 Hz, 2H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,15; 167,50; 157,24; 132,20; 128,20; 126,27; 121,87; 119,64; 116,08.

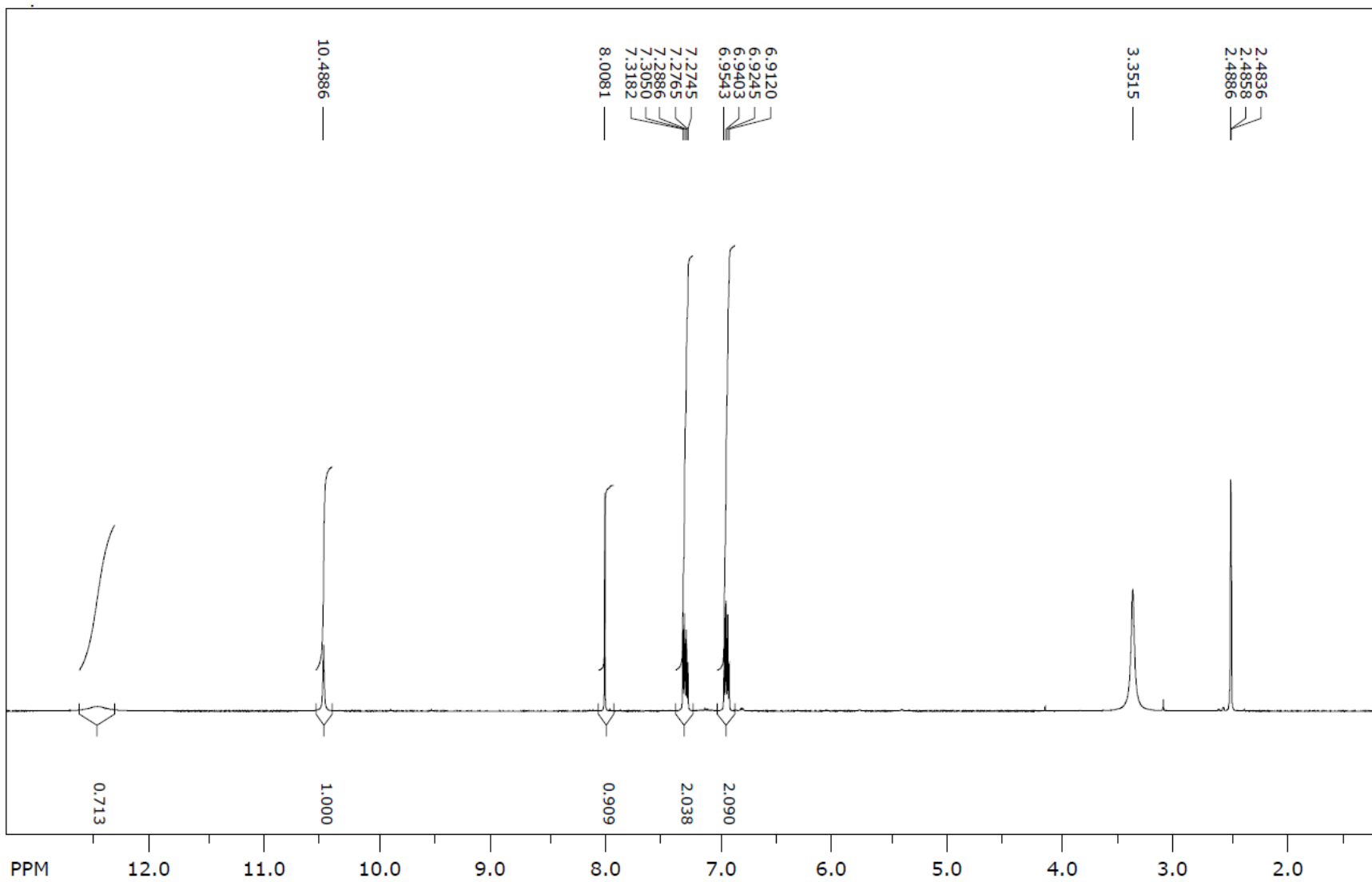
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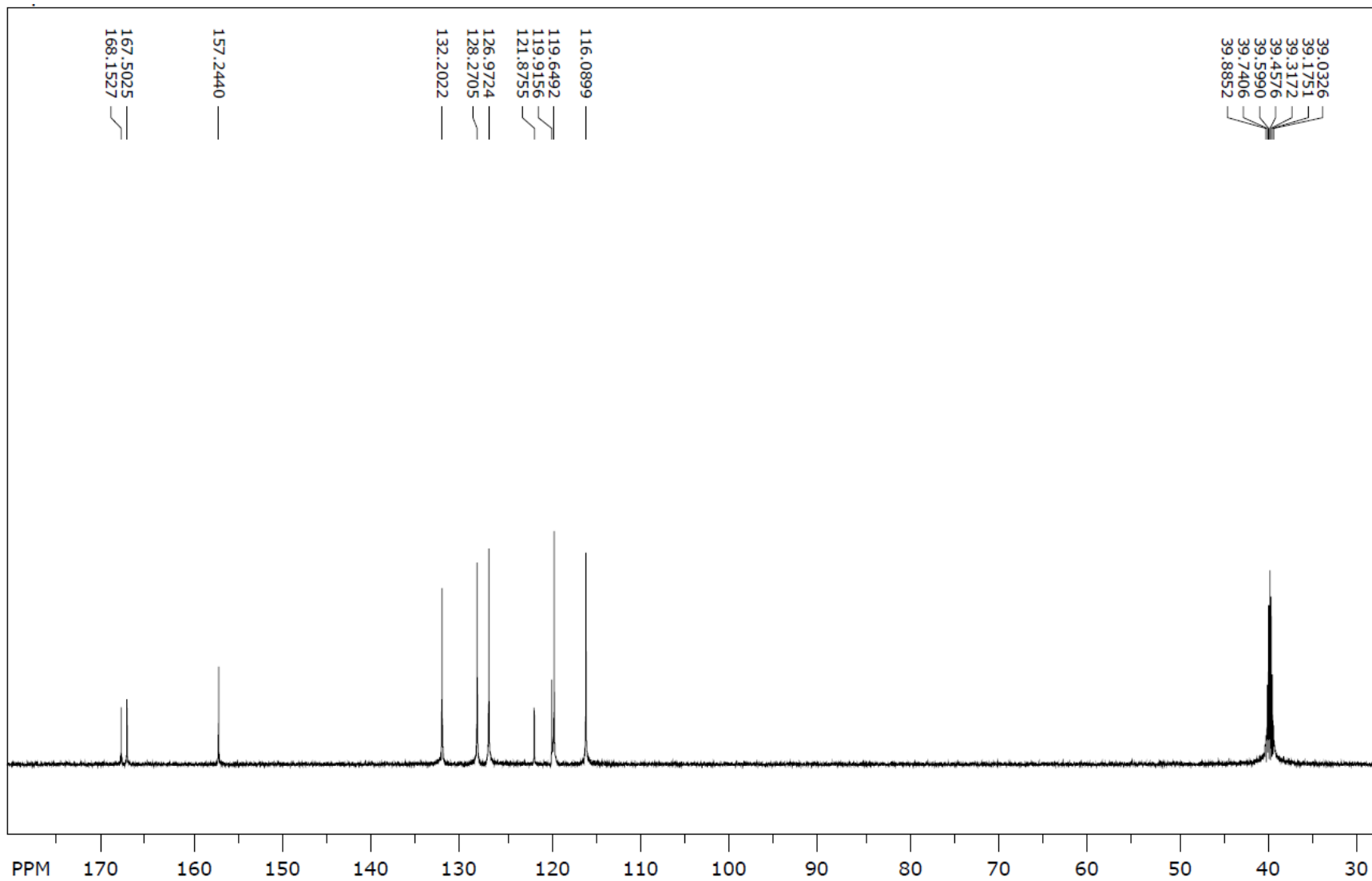
# Maseni spektar (9a)



# <sup>1</sup>H NMR spektr (9a)



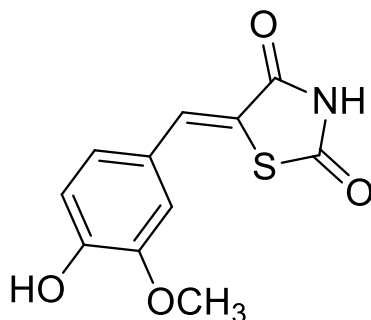
**<sup>13</sup>C NMR spektr (9a)**



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**5-(4-hidroksi-3-metoksibenziliden)tiazolidin-2,4-dion (9b)**

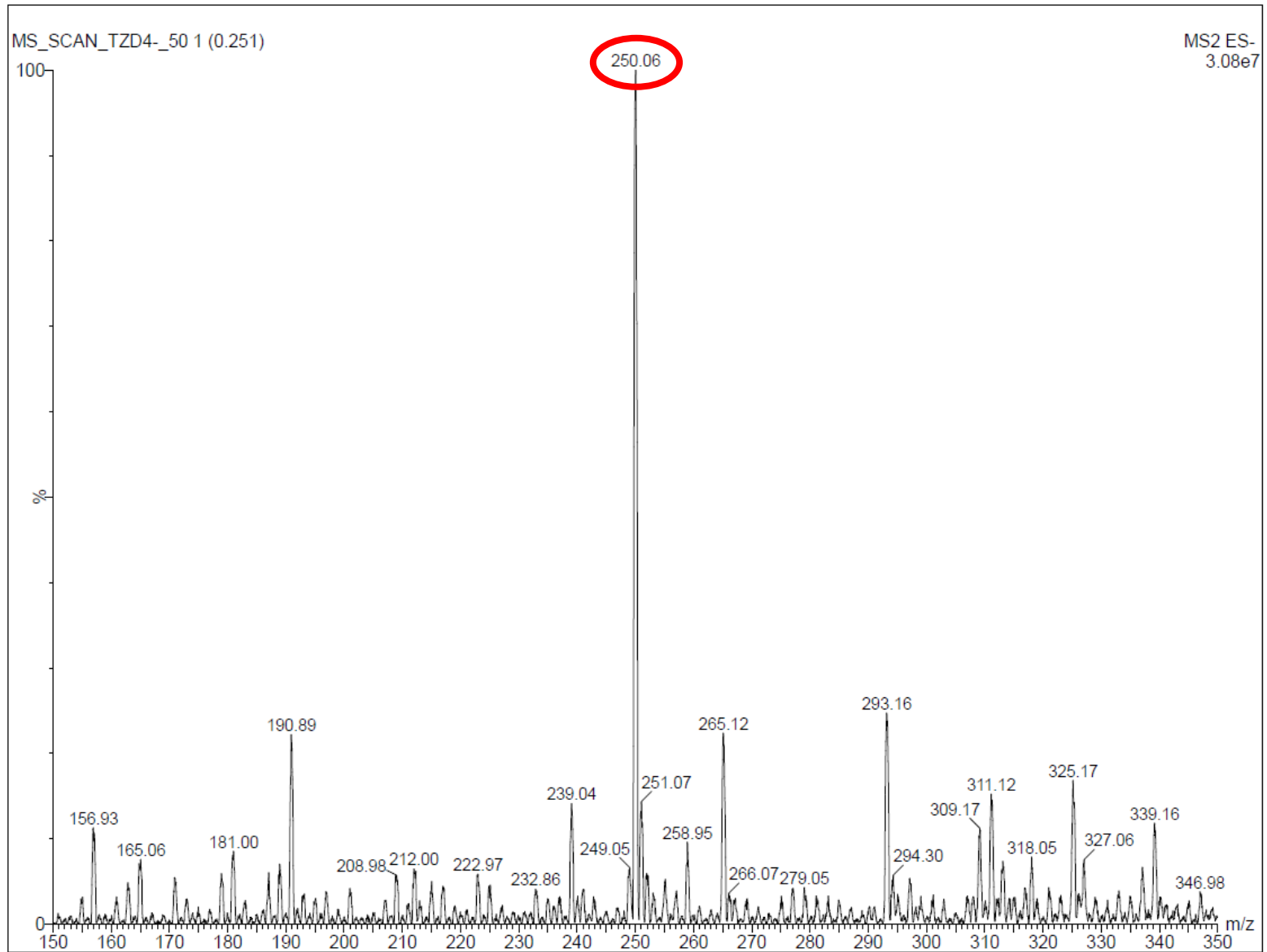
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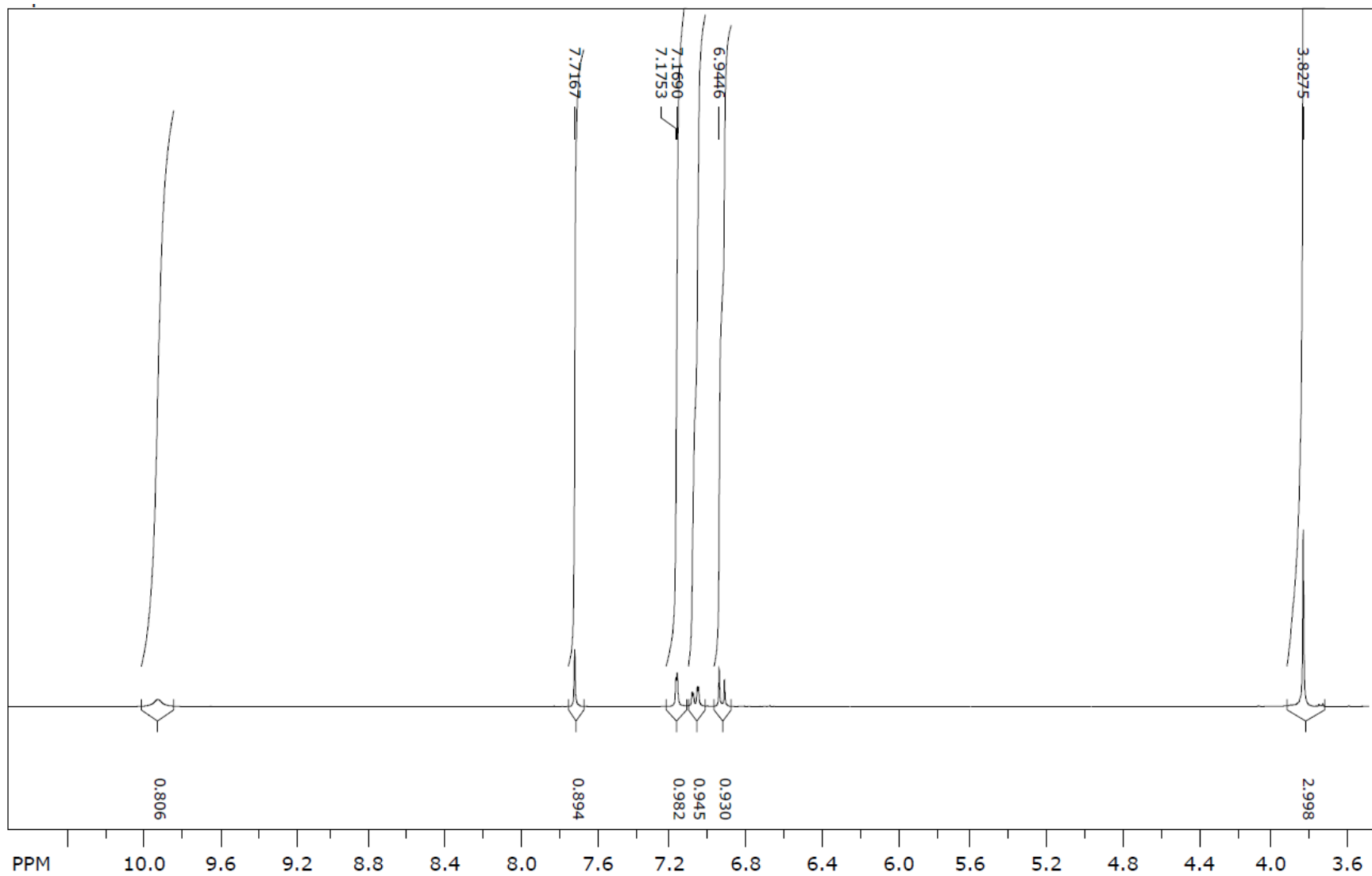
<b>Reaktanti</b>	3-metoksi-4-hidroksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	251,26
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>9</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	199 – 201 °C (lit. 194 – 195 °C, Durai Ananda Kumar i sur., 2015; 109 – 110 °C, Xiong i sur., 2011)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,63
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	250,06
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 11,98 (s, 1H, NH), 9,94 (s, 1H, OH), 7,71 (s, 1H, CH), 7,17 (d, <i>J</i> = 1,89 Hz, 1H, arom.), 7,07 (dd, <i>J</i> = 8,34; 1,89 Hz, 1H, arom.), 6,93 (d, <i>J</i> = 8,25 Hz, 1H, arom.), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 172,47; 168,52; 167,94; 149,89; 148,43, 130,06; 124,85; 124,59; 119,68; 116,71; 114,60.

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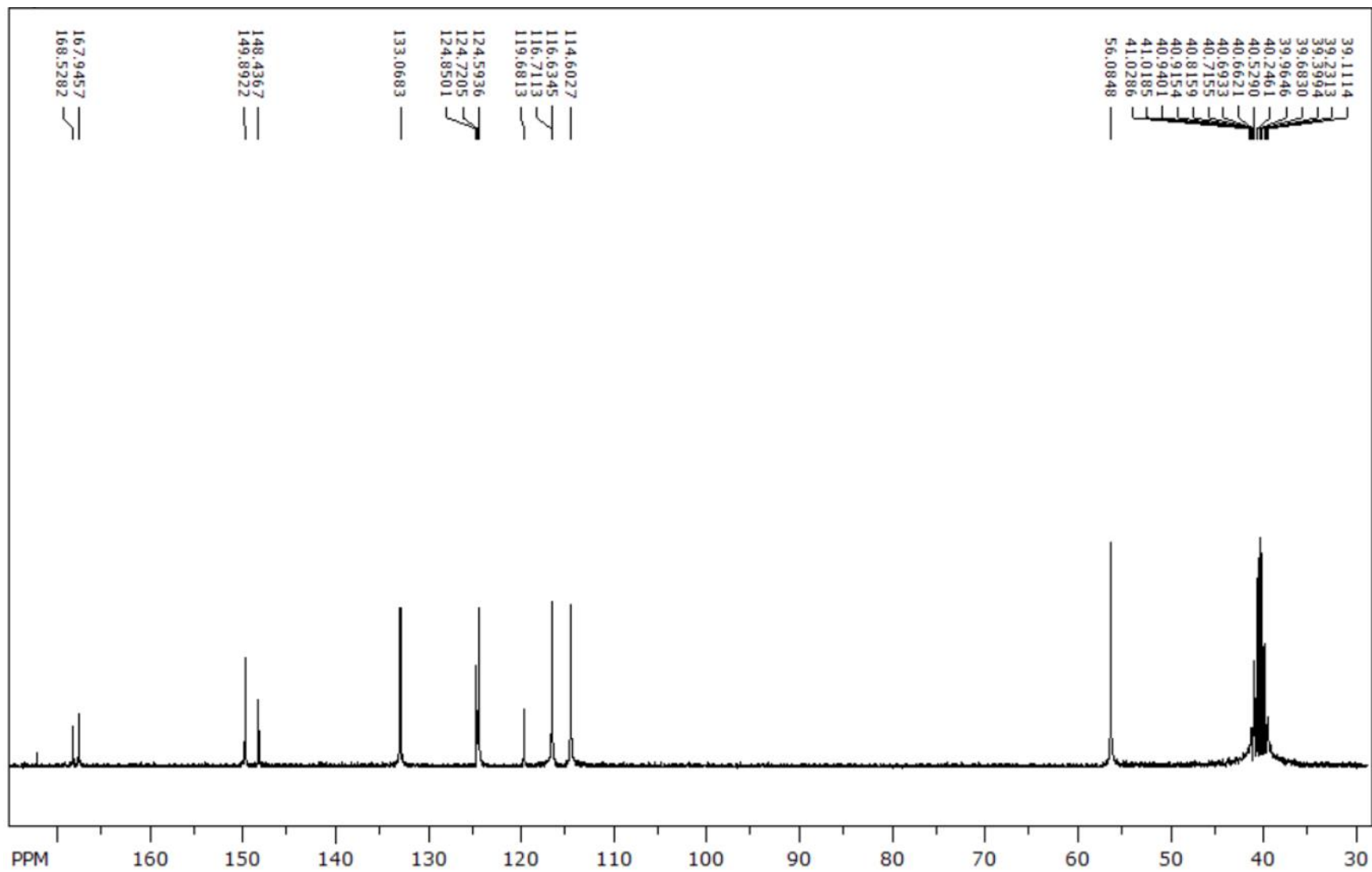
# Maseni spektar (9b)



**<sup>1</sup>H NMR spektr (9b)**



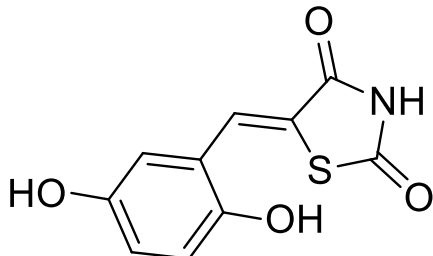
<sup>13</sup>C NMR spektar (9b)



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**5-(2,5-dihidroksibenziliden) tiazolidin-2,4-dion (9c)**

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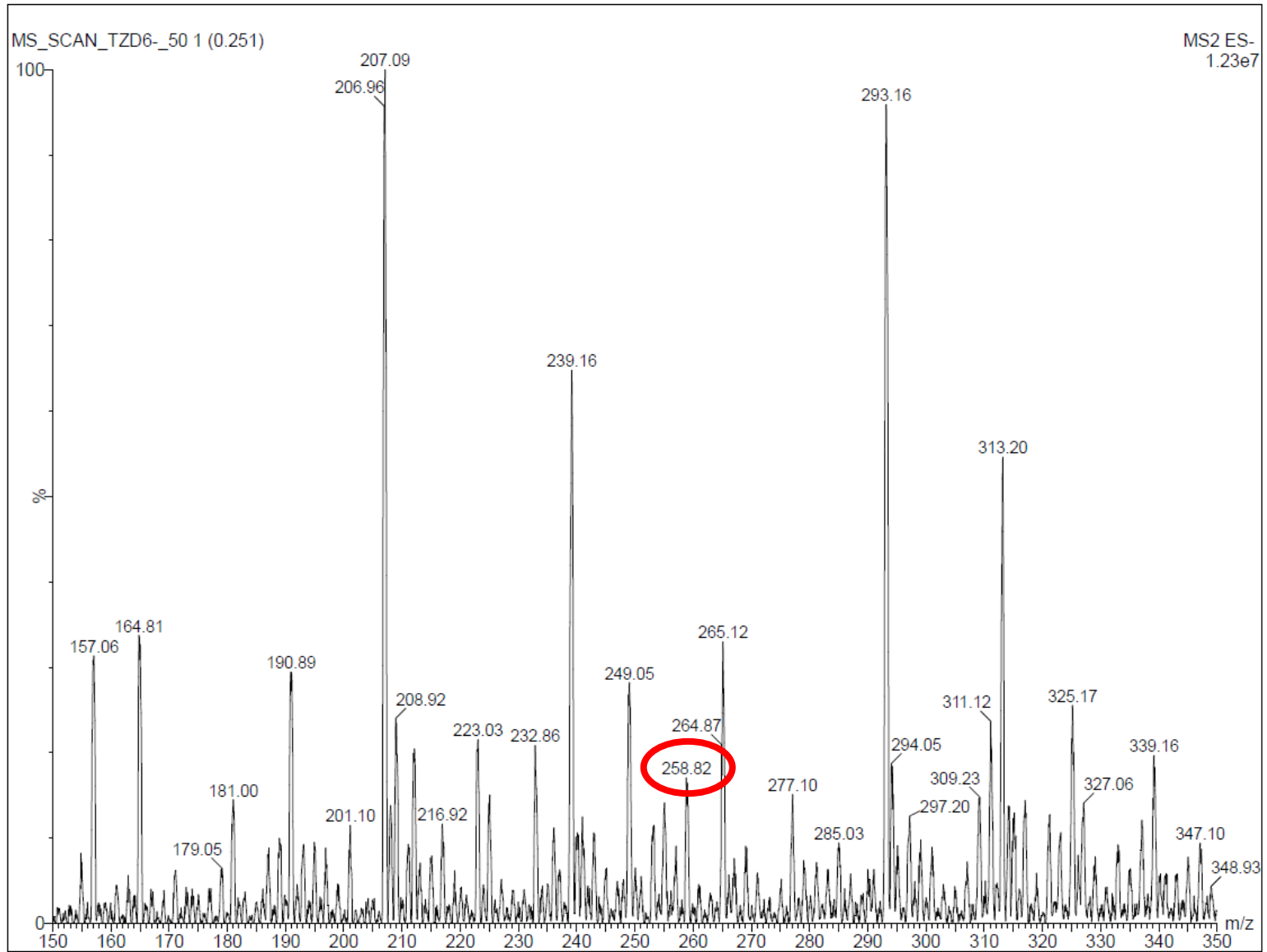


<b>Reaktanti</b>	2,5-dihidroksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	237,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	194 – 198 °C
<b>Boja kristala</b>	Tamnosmeđa
<b>R<sub>f</sub></b>	0,58
<b>LC/MS/MS <i>m/z</i> (M-+Na)</b>	258,82
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 9,70 (s, 1H, OH), 7,61 (s, 1H, CH), 7,23 (d, <i>J</i> = 8,76 Hz, 1H, arom.), 6,98 (s, 1H, arom.), 6,91 – 6,93 (dd, <i>J</i> = 8,22; 1,68; 2,40 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 153,98; 144,08; 132,23; 128,61; 120,04; 117,85; 116,75; 110,91.

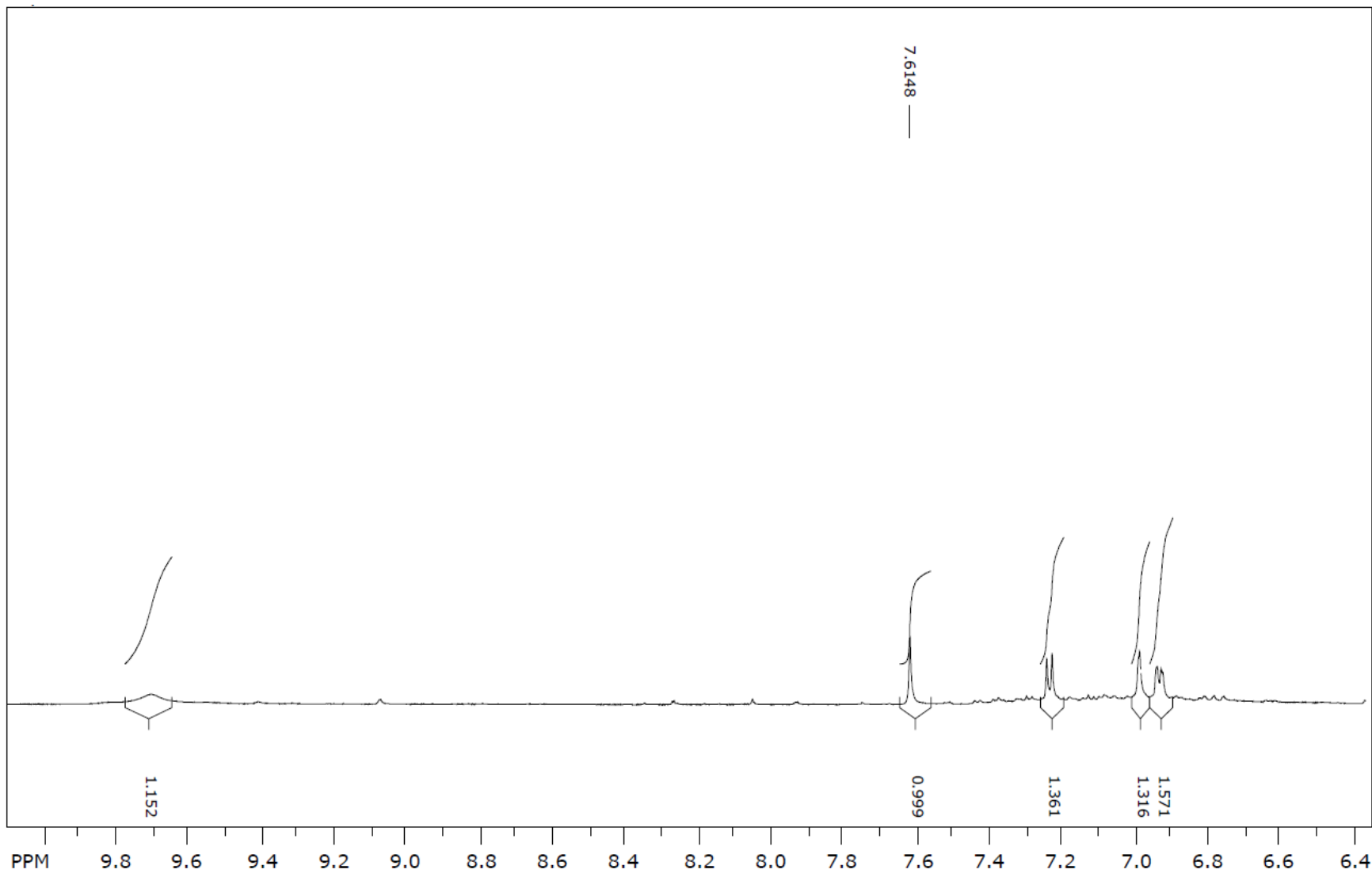
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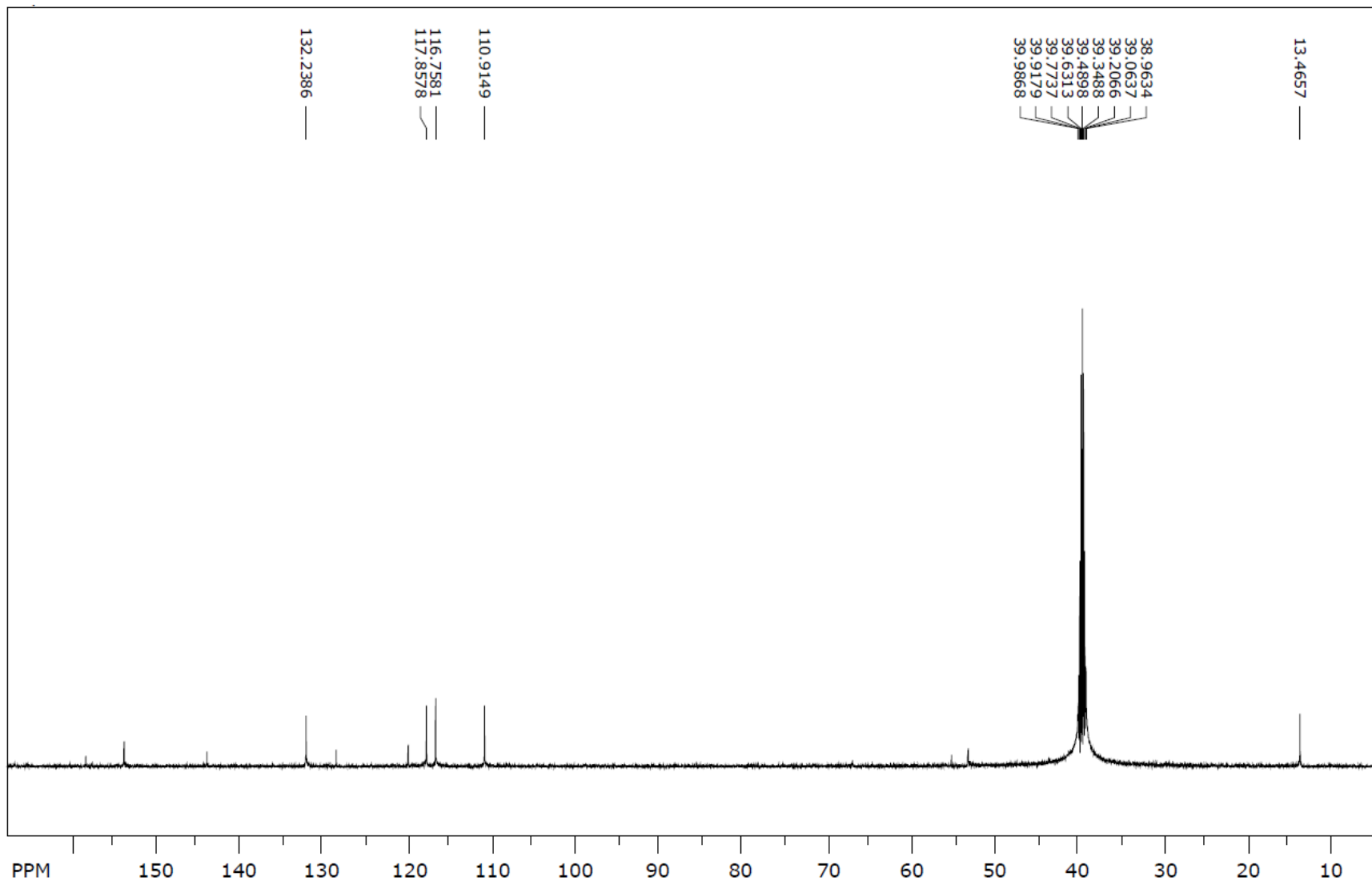
# Maseni spektr (9c)



**<sup>1</sup>H NMR spektr (9c)**



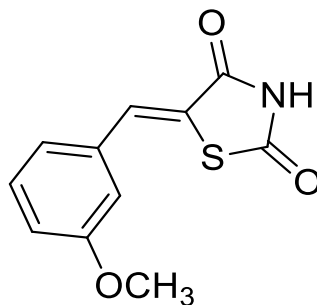
**<sup>13</sup>C NMR spektr (9c)**



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**5-(3-metoksibenziliden) tiazolidin-2,4-dion (9d)**

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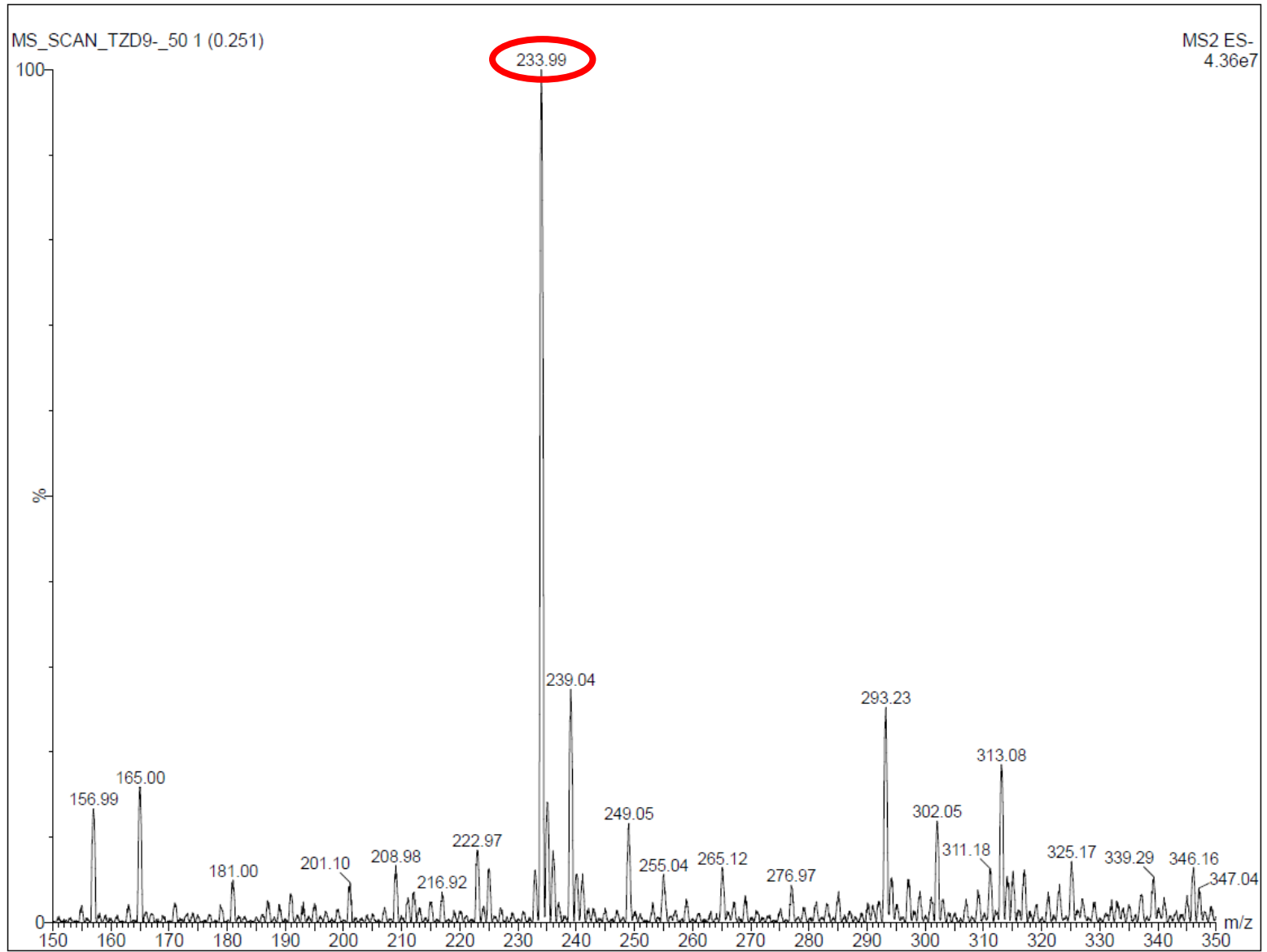


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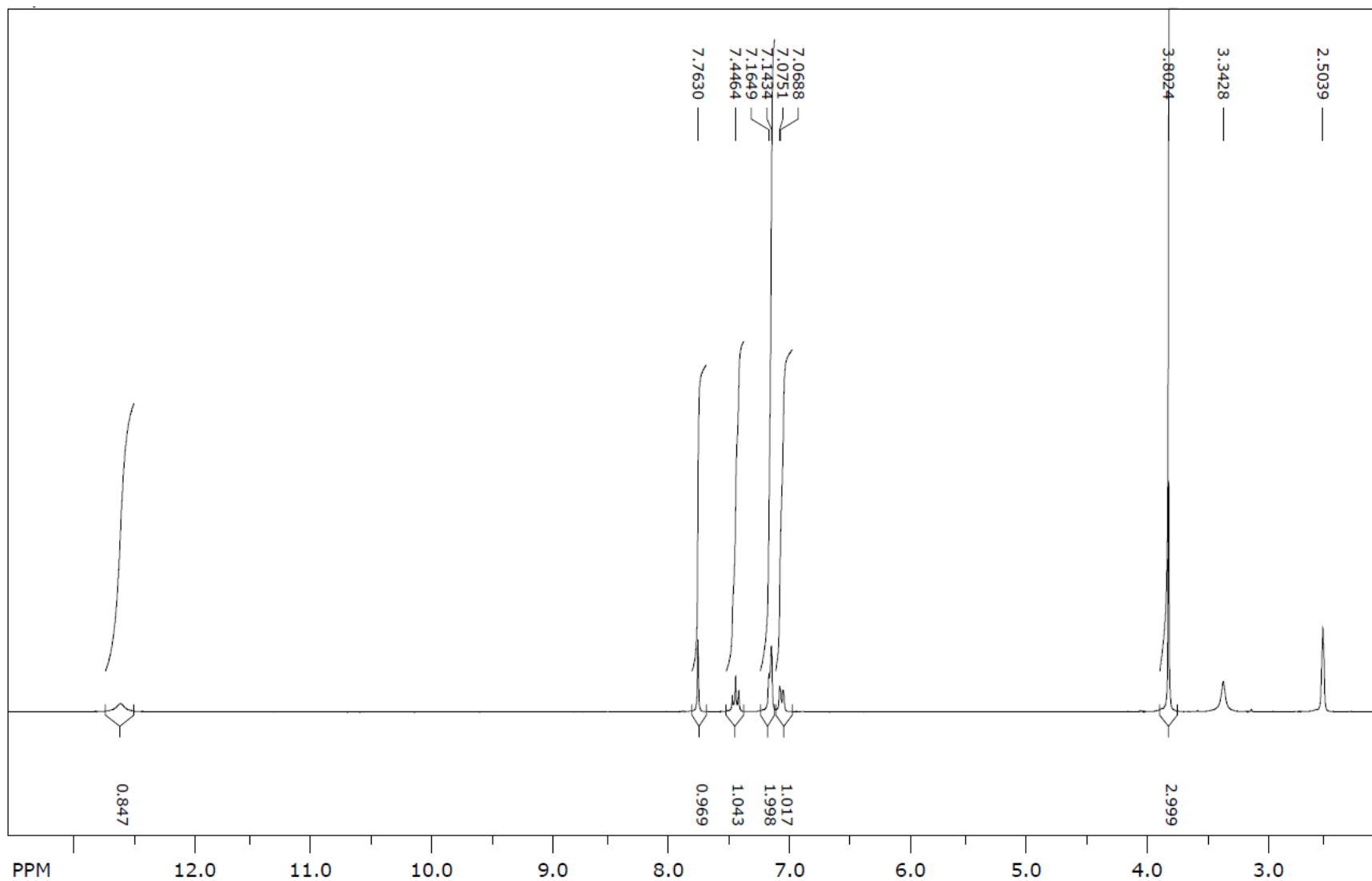
<b>Reaktanti</b>	3-metoksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	235,26 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>9</sub> NO <sub>3</sub> S
<b>Temperatura tališta</b>	194 – 197 °C
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,74
<b>LC/MS/MS <i>m/z</i> (M-)</b>	233,99
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,62 (s, 1H, NH), 7,76 (s, 1H, CH), 7,45 (t, <i>J</i> = 8,16 Hz, 1H, arom.), 7,15 (d, <i>J</i> = 6,45 Hz, 2H, arom.), 7,06 (dd, <i>J</i> = 8,34; 1,89; 0,30 Hz, 1H, arom.), 3,80 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,28; 167,70; 160,08; 134,85; 132,21; 130,86; 122,36; 116,74; 115,76; 55,73.

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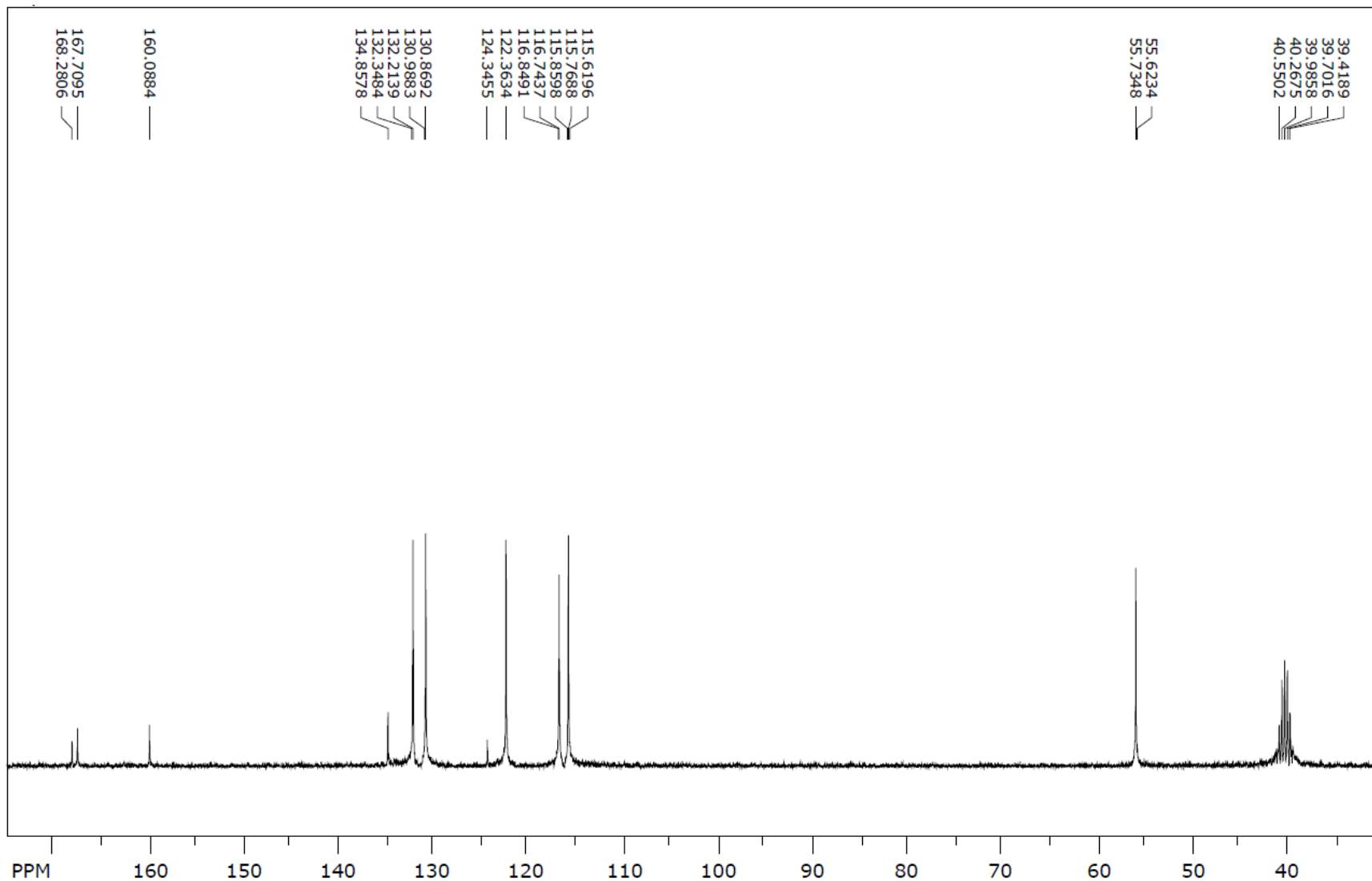
# Maseni spektr (9d)



**<sup>1</sup>H NMR spektr (9d)**



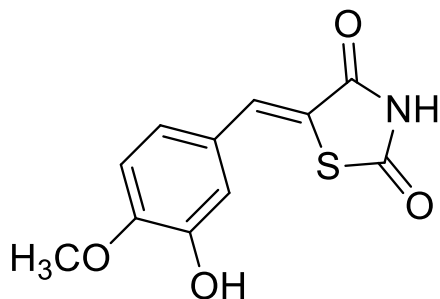
**<sup>13</sup>C NMR spektr (9d)**



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**5-(3-hidroksi-4-metoksibenziliden) tiazolidin-2,4-dion (9e)**

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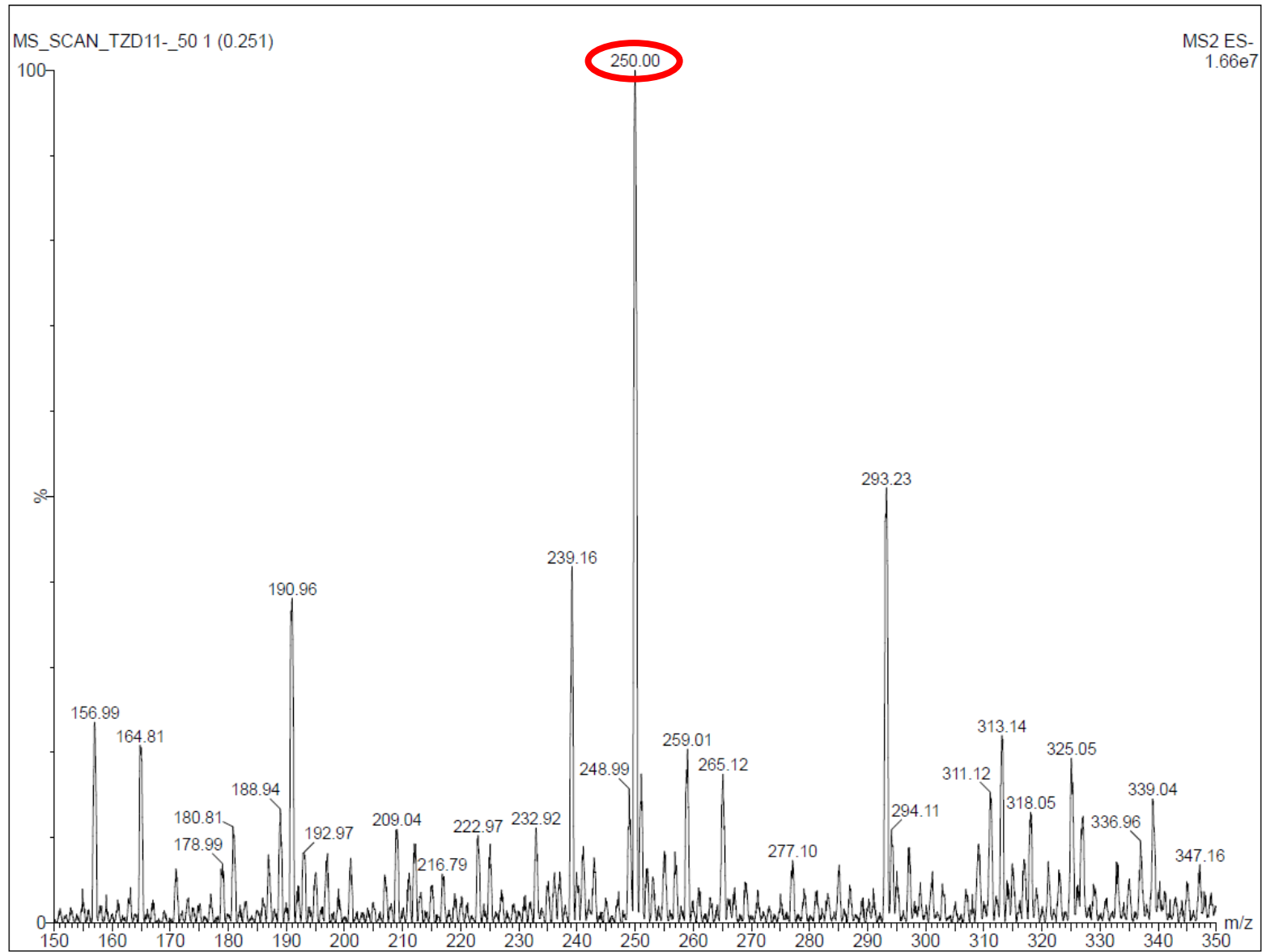
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<b>Reaktanti</b>	3-hidroksi-4-metoksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	251,26 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>9</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	254 – 257 °C (lit. 254 – 257 °C, Ha i sur., 2012)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,58
<b>LC/MS/MS m/z (M-)</b>	250,00
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,46 (s, 1H, NH), 9,47 (s, 1H, OH), 7,62 (s, 1H, CH), 7,06 (d, <i>J</i> = 2,16 Hz, 2H, arom.), 7,00 (d, <i>J</i> = 1,56 Hz, 1H, arom.), 3,81 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,03; 167,40; 149,99; 146,89; 132,24; 125,63; 123,45; 119,96; 115,84; 112,37; 55,63.

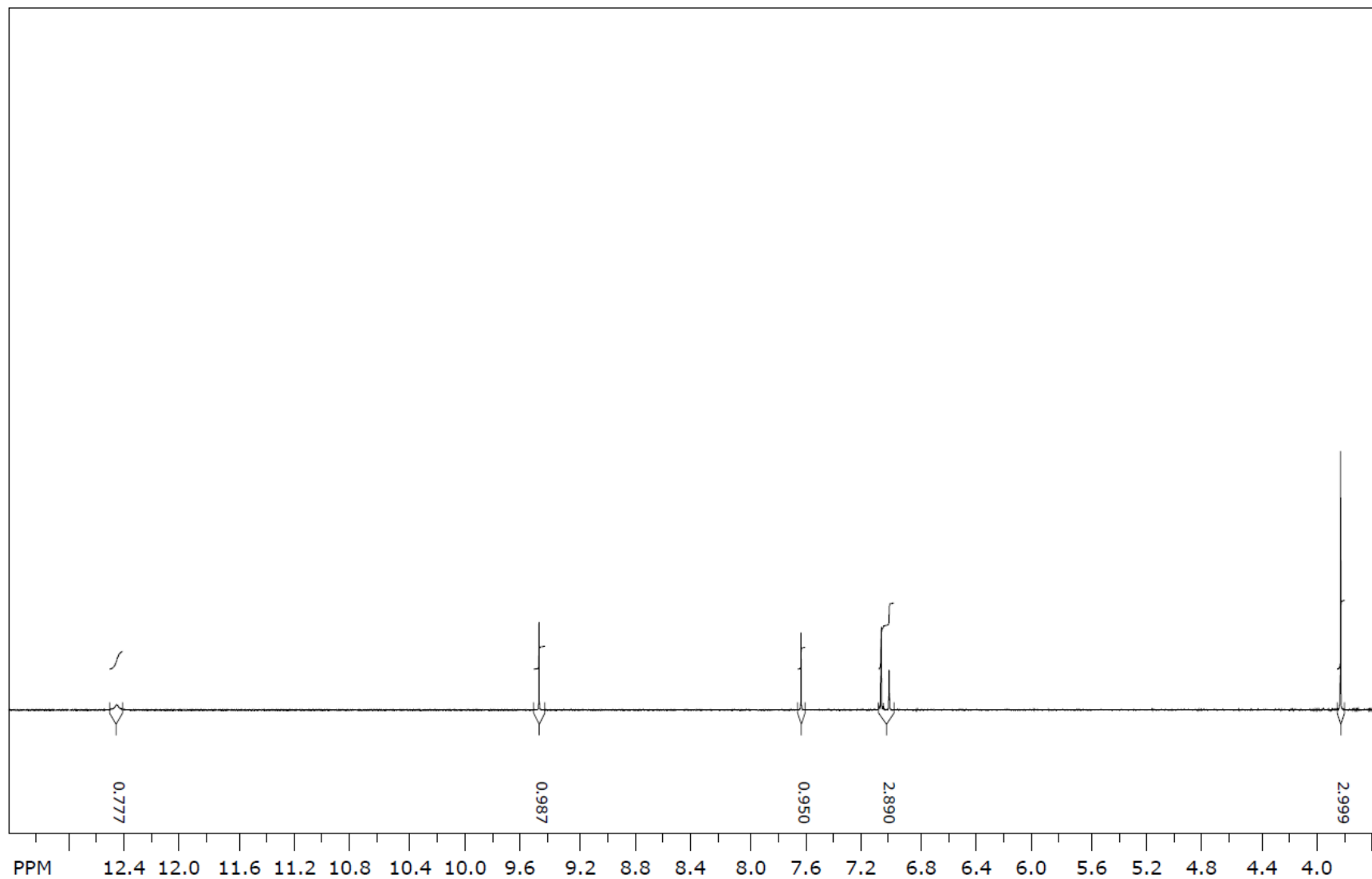
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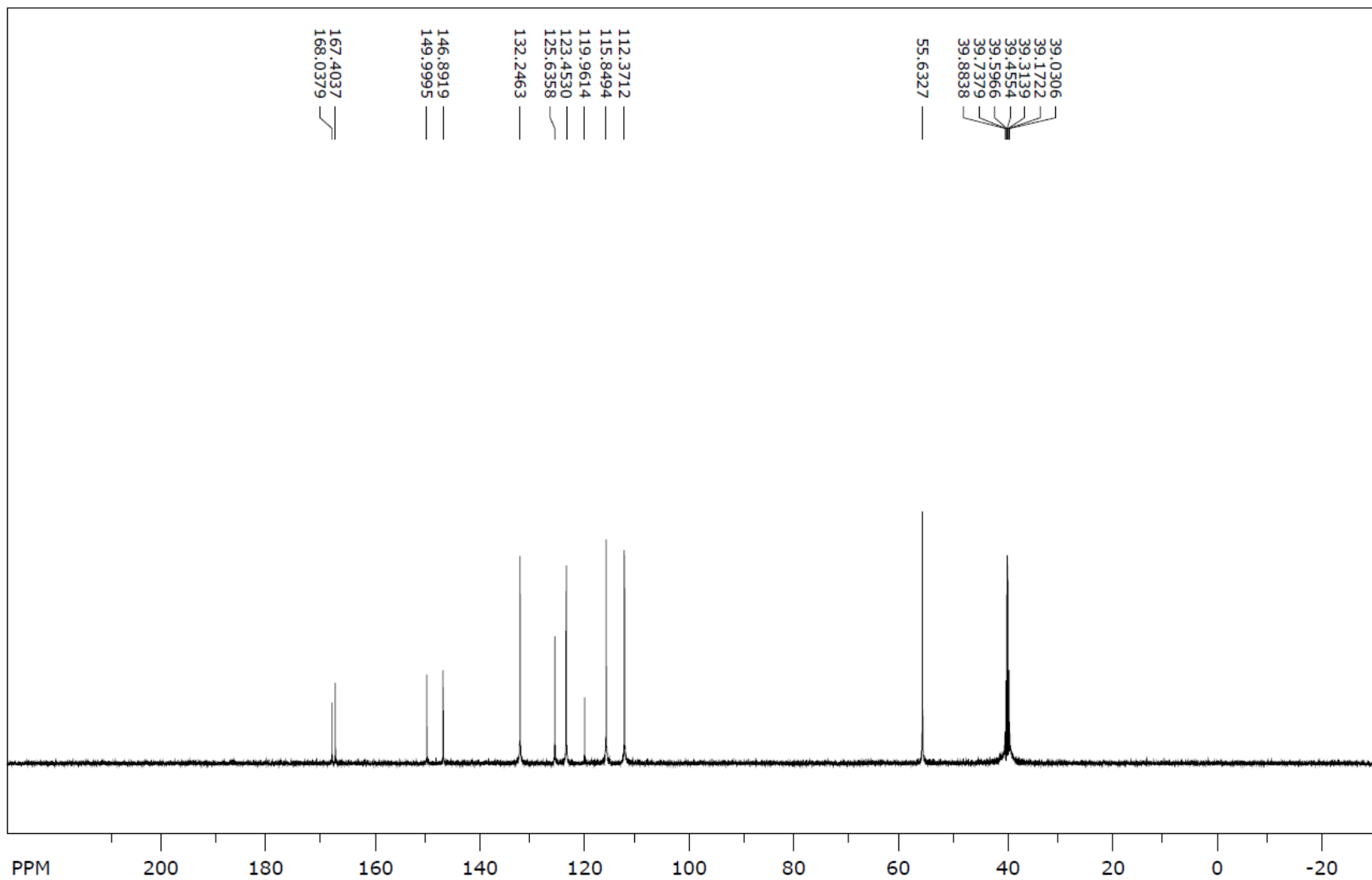
# Maseni spektr (9e)



**<sup>1</sup>H NMR spektr (9e)**



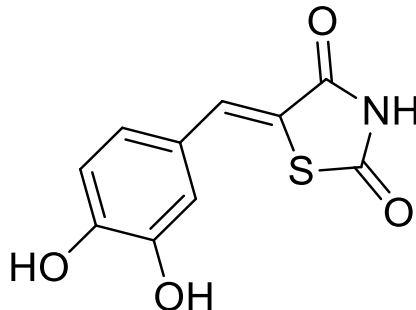
**<sup>13</sup>C NMR spektr (9e)**



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**5-(3,4-dihidroksibenziliden) tiazolidin-2,4-dion (9f)**

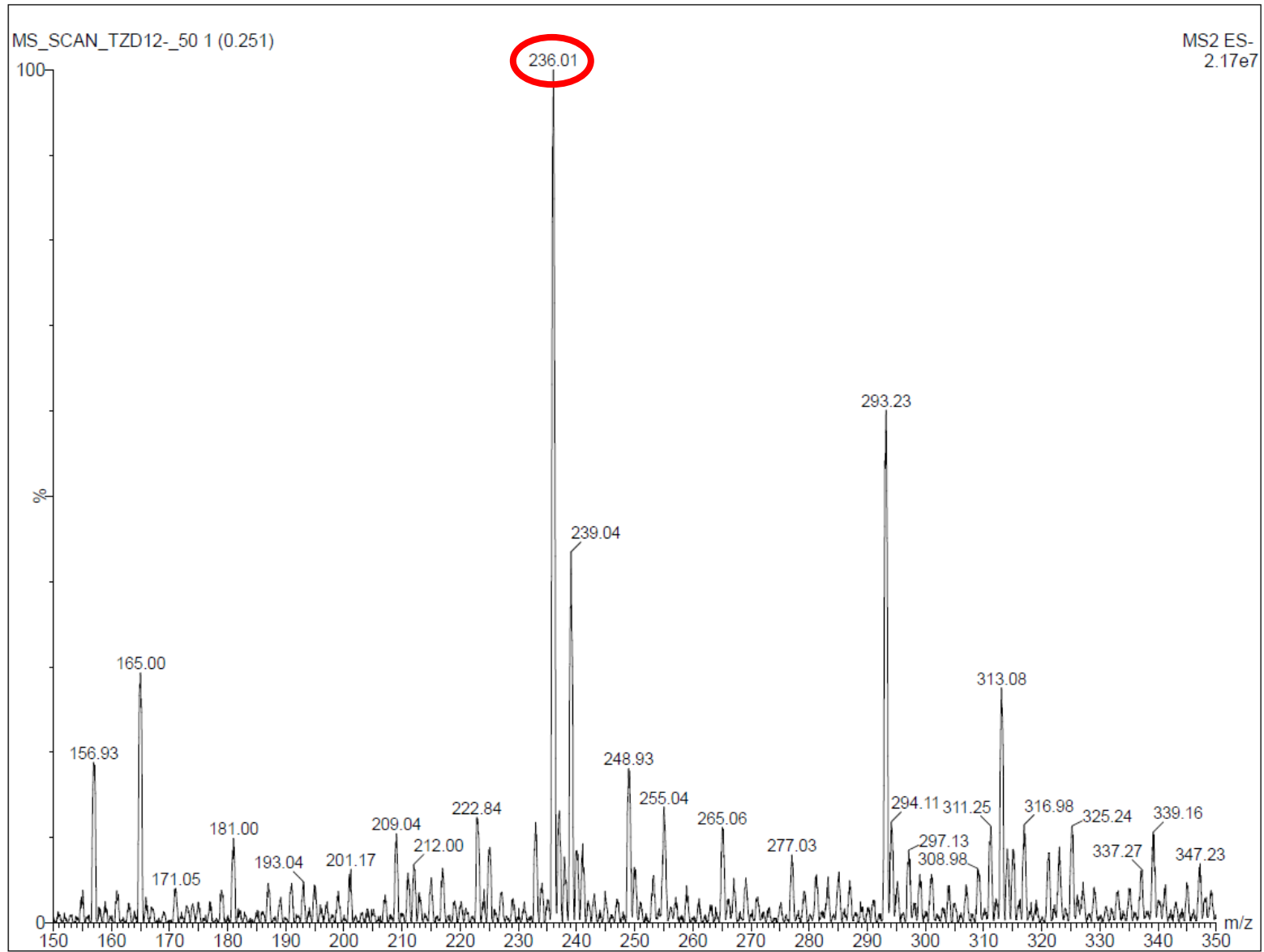
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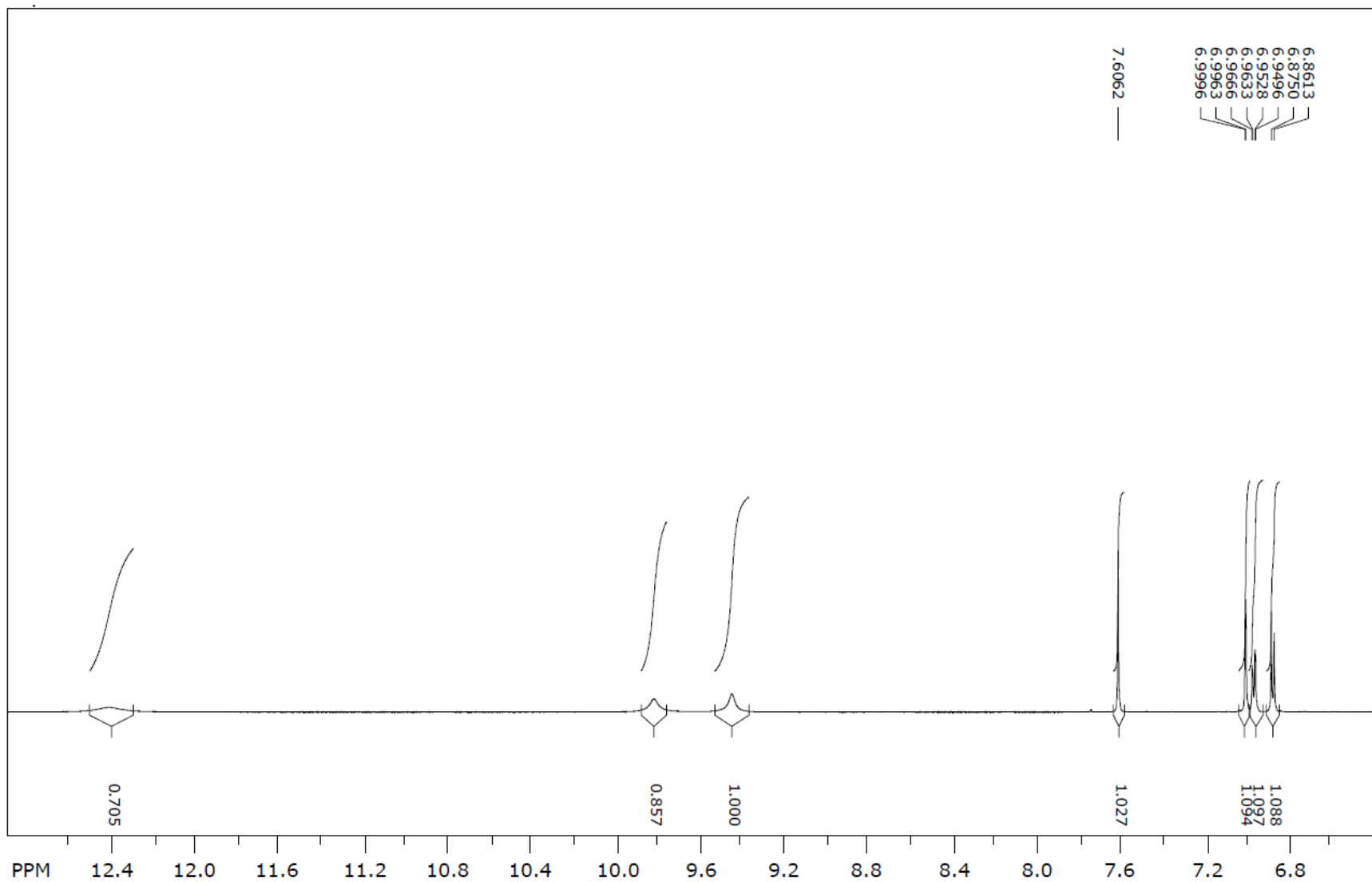
<b>Reaktanti</b>	3,4-dihidroksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	237,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	270 - 271 °C (lit. 267 °C, Shelke i sur., 2011)
<b>Boja kristala</b>	Smeđa
<b>R<sub>f</sub></b>	0,35
<b>LC/MS/MS m/z (M-)</b>	236,01
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,42 (s, 1H, NH), 9,82 (s, 1H, OH), 9,44 (s, 1H, OH), 7,60 (s, 1H, CH), 6,99 (d, <i>J</i> = 1,98 Hz, 1H, arom.), 6,96 (q, <i>J</i> = 8,28; 1,95 Hz, 1H, arom.), 6,87 (d, <i>J</i> = 8,22 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,15; 166,53; 148,57; 145,82; 132,63; 124,28; 123,89; 118,72; 116,37; 116,22.

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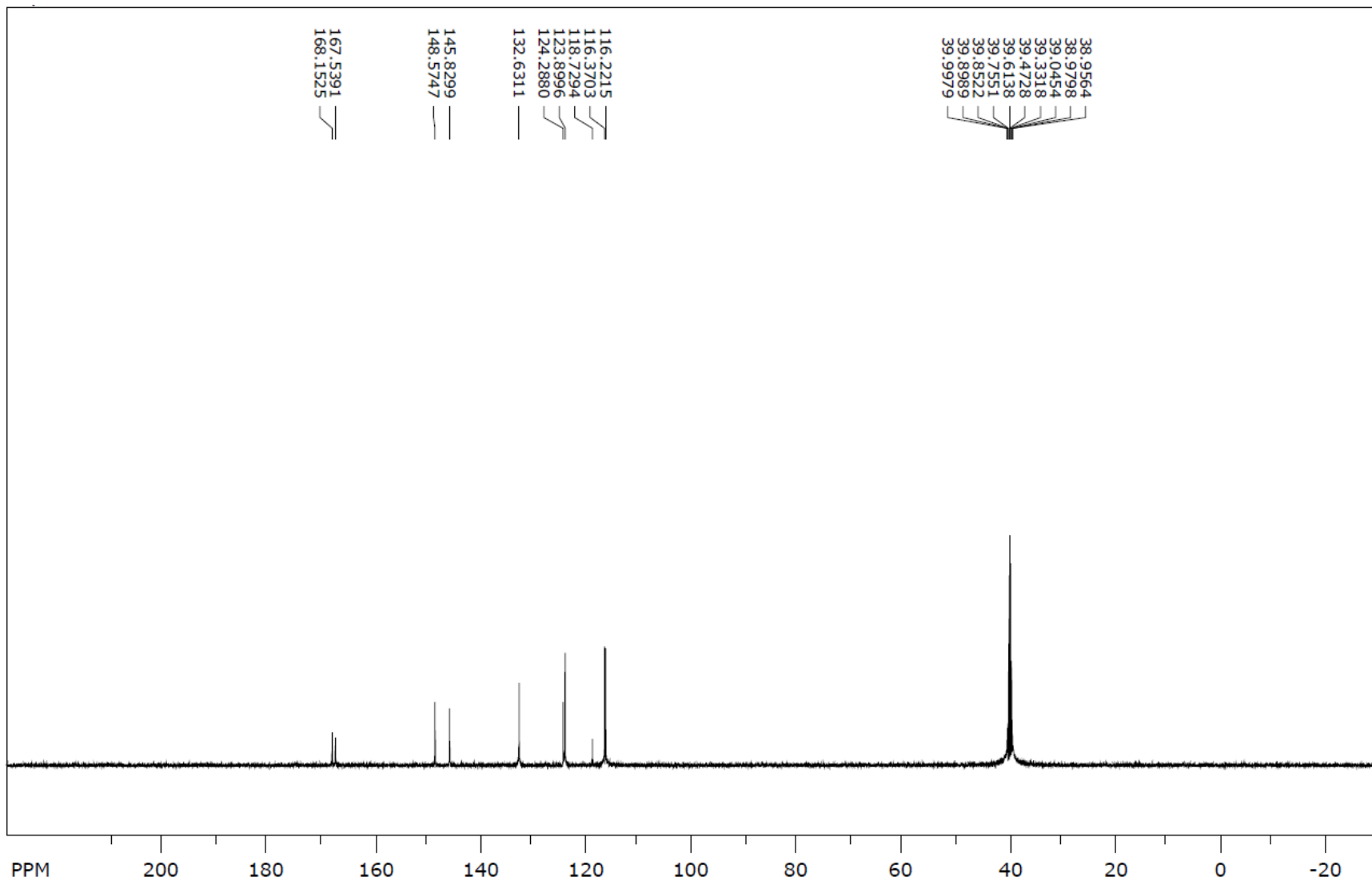
# Maseni spektr (9f)



**<sup>1</sup>H NMR spektr (9f)**



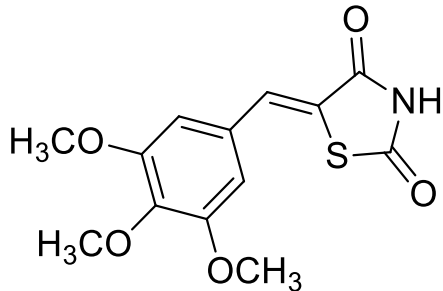
**<sup>13</sup>C NMR spektr (9f)**



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**5-(3,4,5-trimetoksibenziliden) tiazolidin-2,4-dion (9g)**

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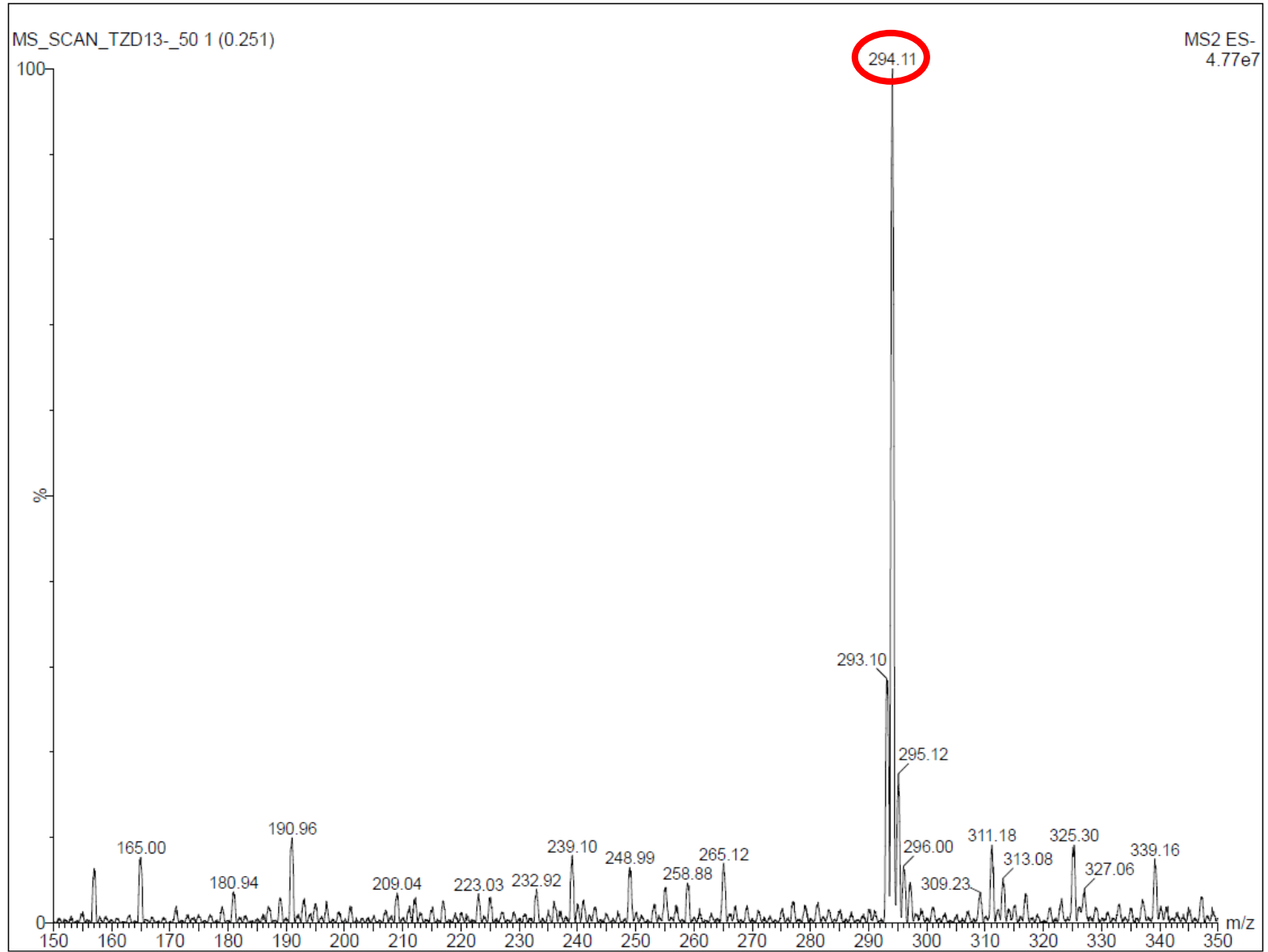


<b>Reaktanti</b>	3,4,5-trimetoksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	295,31 g/mol
<b>Molekulska formula</b>	C <sub>13</sub> H <sub>13</sub> NO <sub>5</sub> S
<b>Temperatura tališta</b>	172 – 174 °C (lit. 179 – 181 °C, Ha i sur., 2012)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,71
<b>LC/MS/MS m/z (M-)</b>	294,11
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,59 (s, 1H, NH), 7,72 (s, 1H, CH), 6,88 (s, 2H, arom.), 3,80 (s, 6H, OCH <sub>3</sub> ), 3,70 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 167,81; 167,20, 155,15; 139,35; 132,05; 128,49; 122,41; 107,48; 60,16; 55,96.

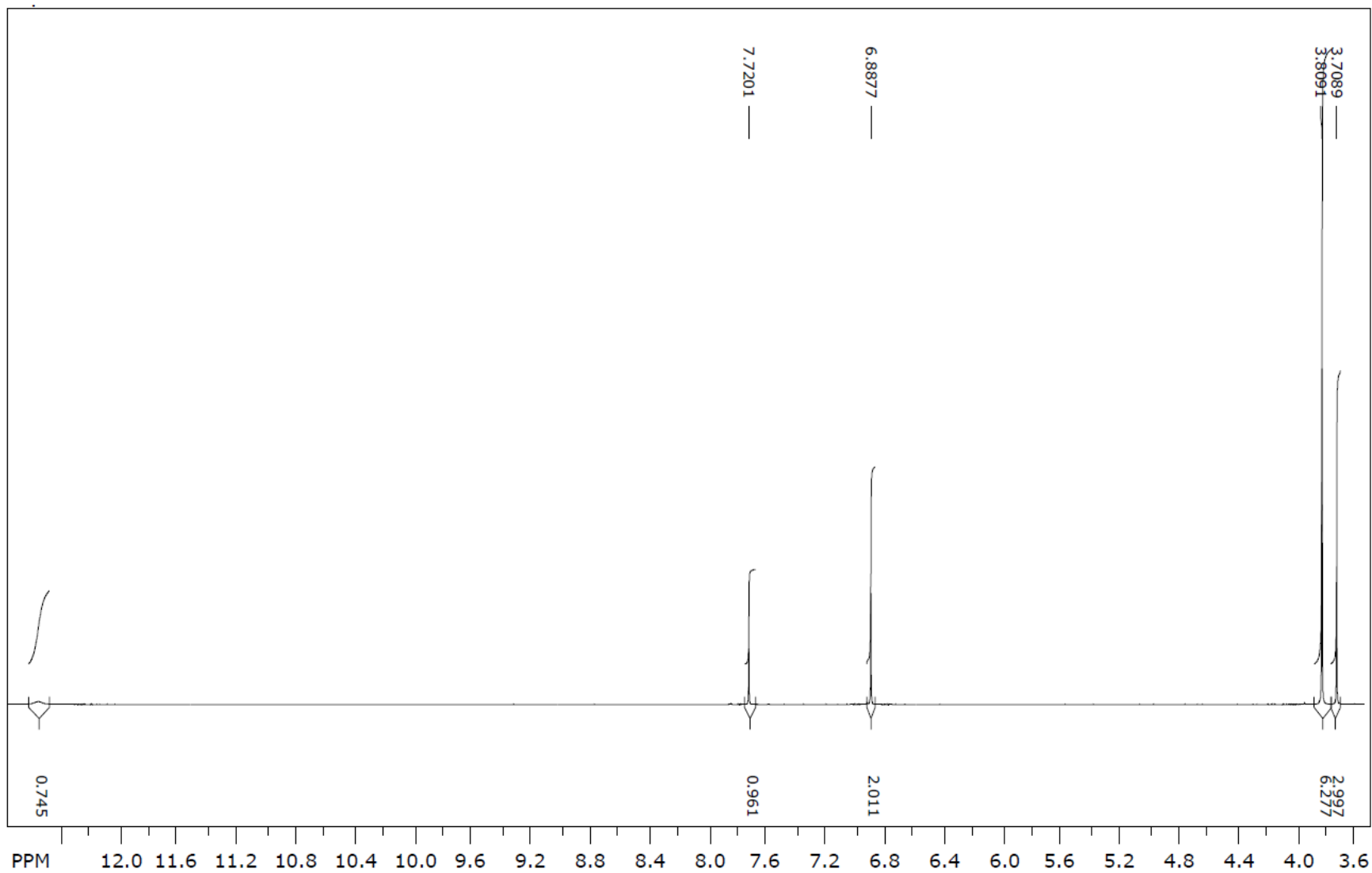
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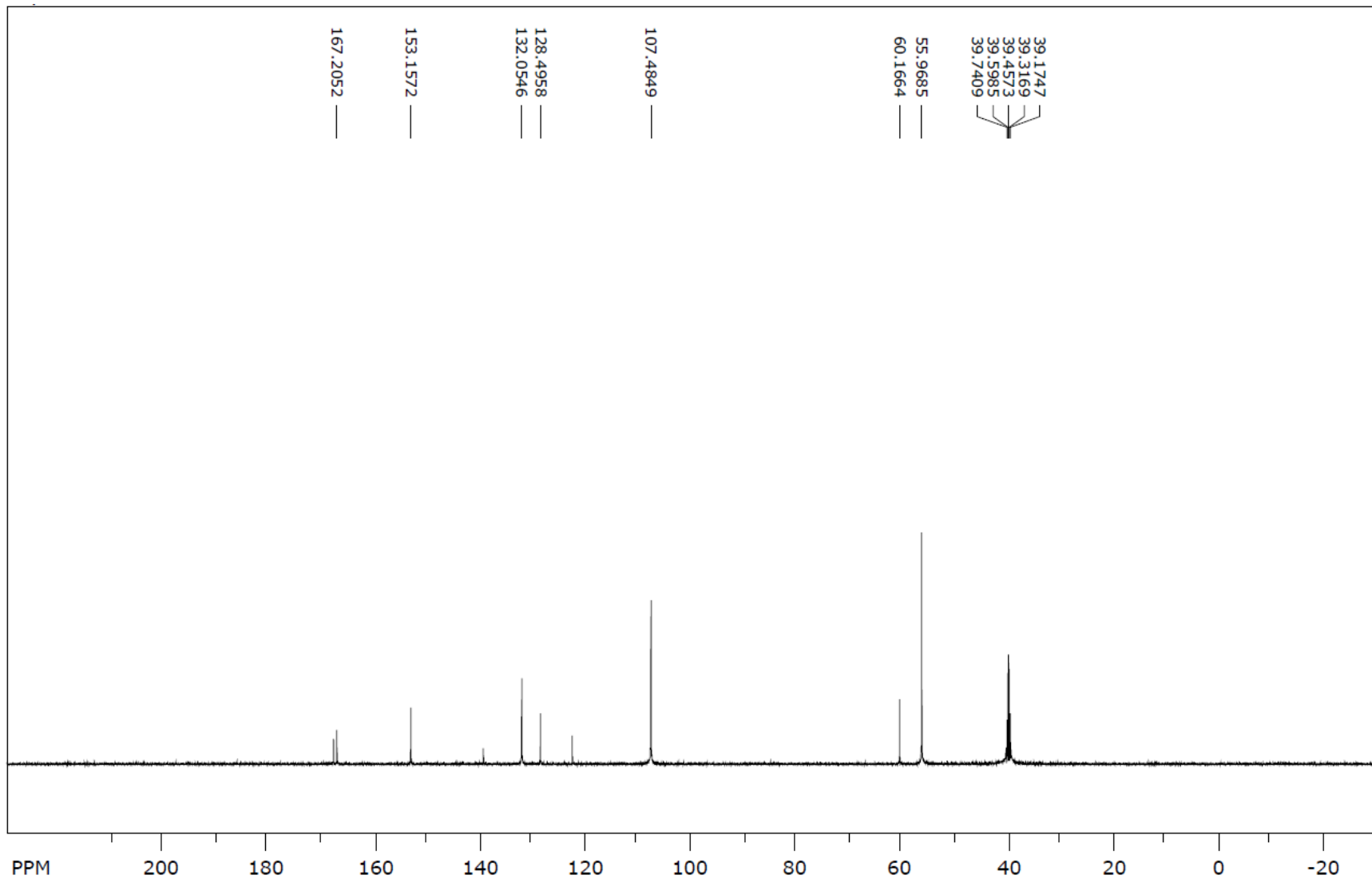
# Maseni spektr (9g)



**<sup>1</sup>H NMR spektr (9g)**



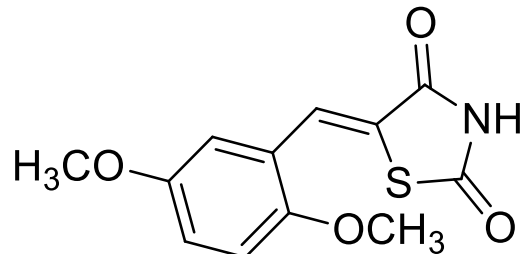
**<sup>13</sup>C NMR spektr (9g)**



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**5-(2,5-dimetoksibenziliden) tiazolidin-2,4-dion (9h)**

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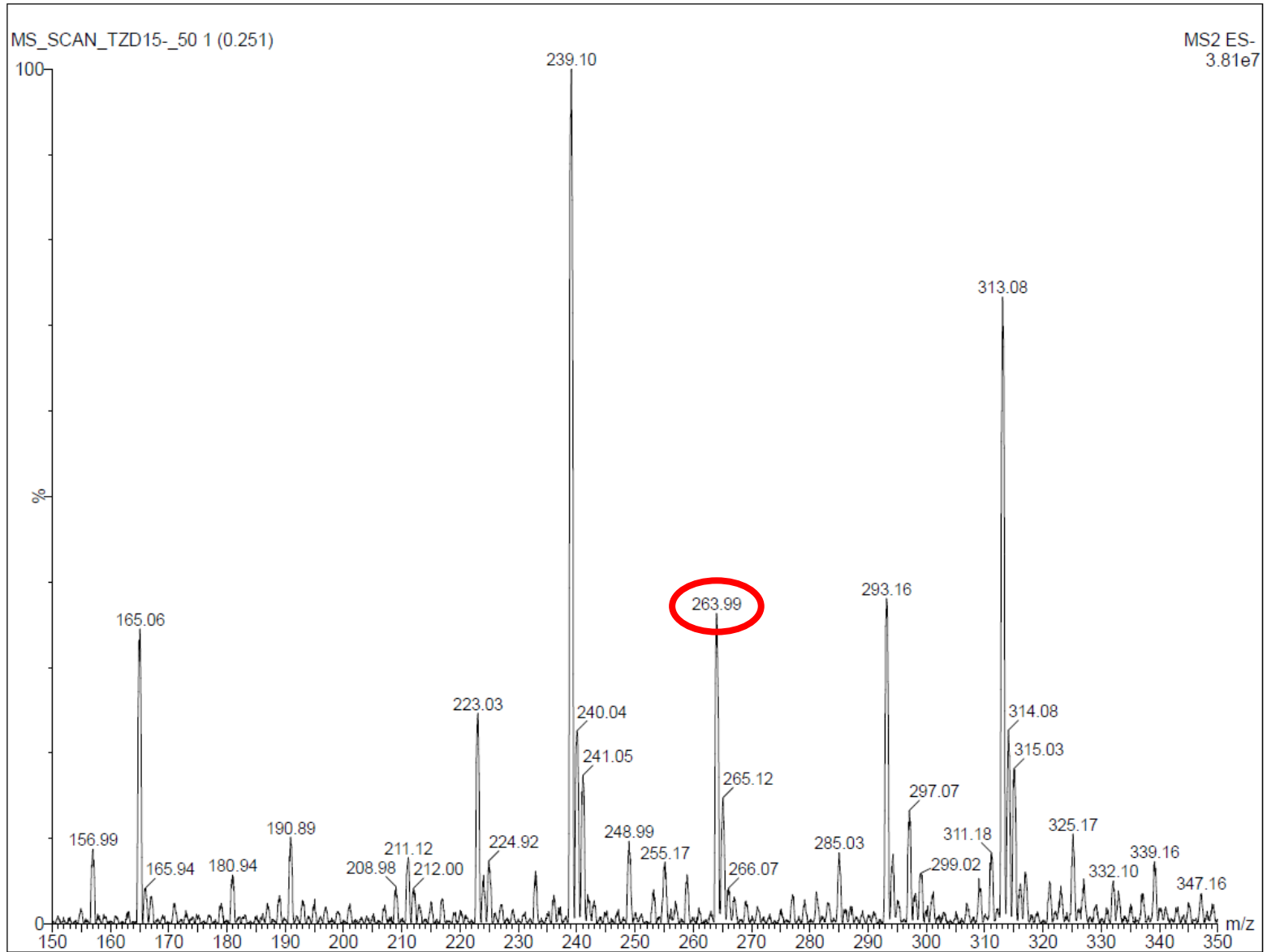


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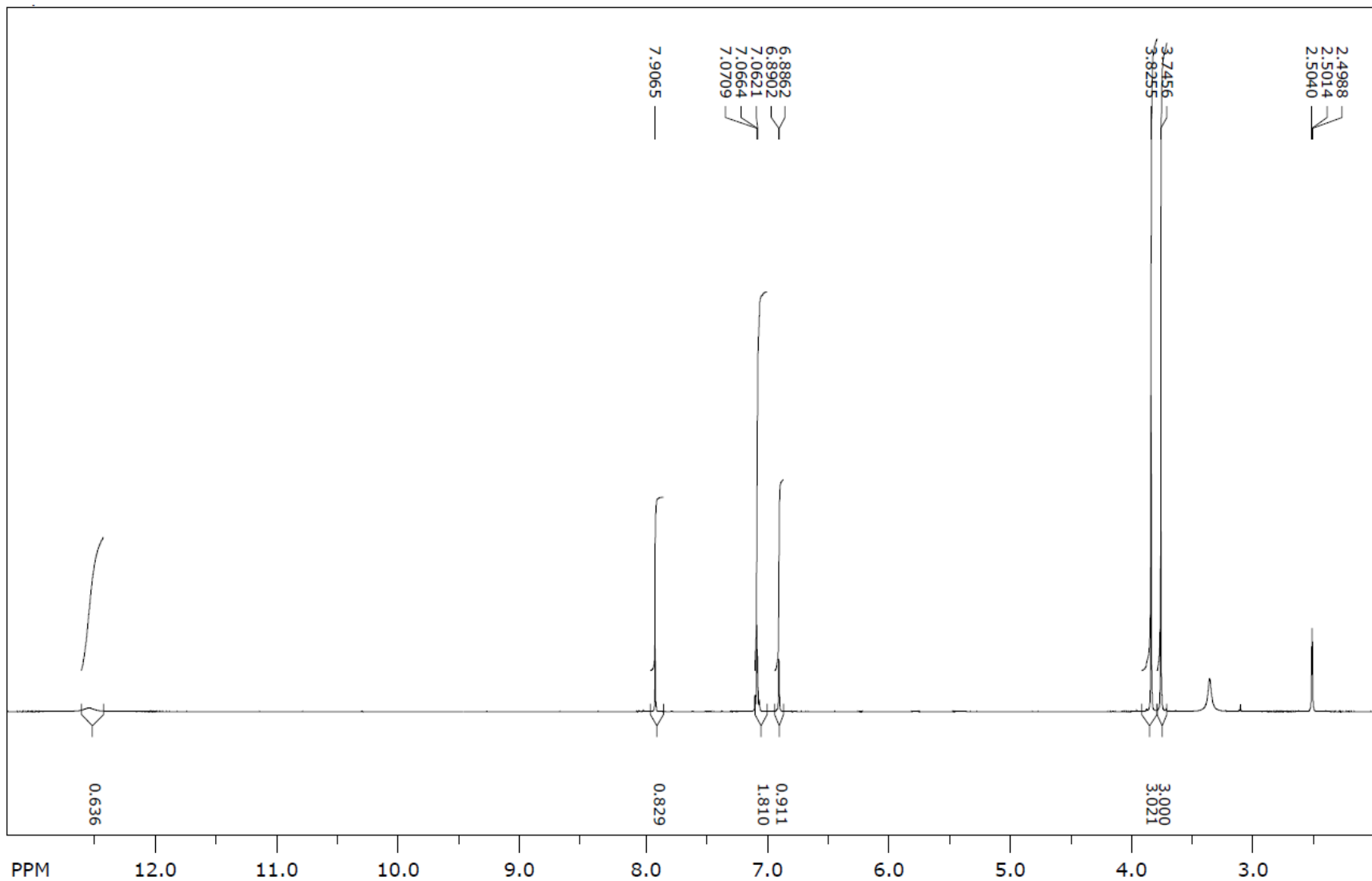
<b>Reaktanti</b>	2,5-dimetoksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	265,29 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>11</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	220 – 223 °C (lit. 210 – 212 °C, Durai Ananda Kumar i sur., 2015)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,74
<b>LC/MS/MS m/z (M-)</b>	263,99
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,56 (s, 1H, NH), 7,90 (s, 1H, CH), 7,07 (t, <i>J</i> = 2,64 Hz, 2H, arom.), 6,89 (d, <i>J</i> = 2,40 Hz, 1H, arom.), 3,82 (s, 3H, OCH <sub>3</sub> ), 3,74 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 167,91; 167,28; 153,01; 152,36; 126,35; 123,79; 121,90; 117,57, 113,22; 113,00; 56,06: 55,47.

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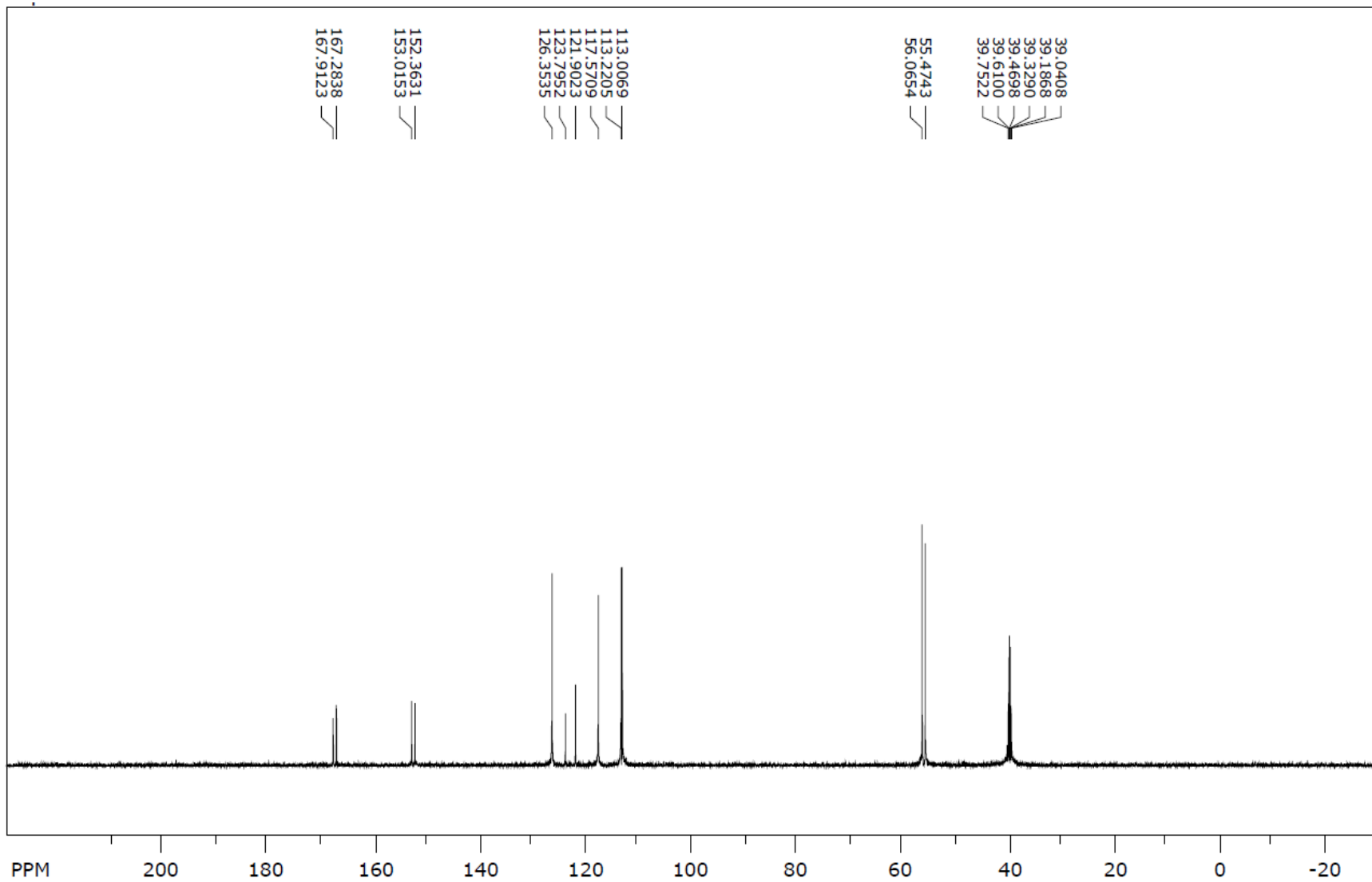
# Maseni spektr (9h)



# <sup>1</sup>H NMR spektr (9h)



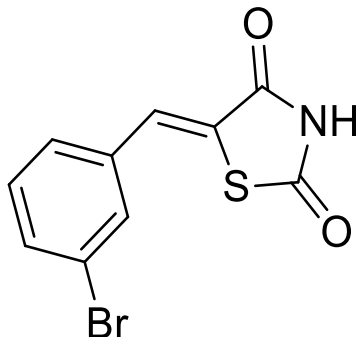
# <sup>13</sup>C NMR spektr (9h)



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**5-(3-brombenziliden) tiazolidin-2,4-dion (9i)**

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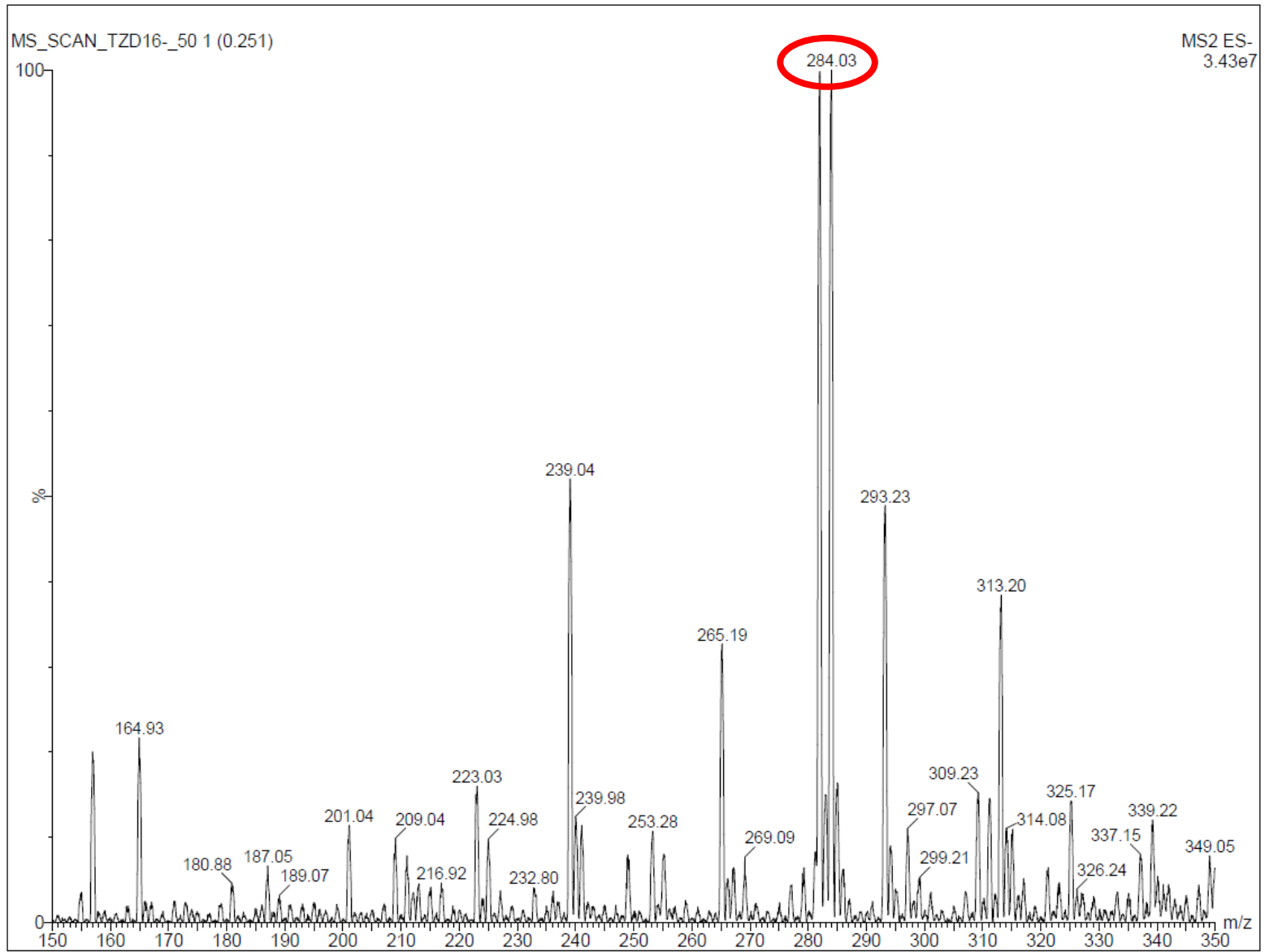
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<b>Reaktanti</b>	3-brombenzalhid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	284,13 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>6</sub> BrNO <sub>2</sub> S
<b>Temperatura tališta</b>	210 – 212 °C
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,76
<b>LC/MS/MS <i>m/z</i> (M-)</b>	284,03
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,69 (s, 1H, NH), 7,82 (t, <i>J</i> = 1,56 Hz, 1H, arom.), 7,78 (s, 1H, CH), 7,66 – 7,70 (m, 1H, arom.), 7,59 (d, <i>J</i> = 7,86 Hz, 1H, arom.), 7,50 (t, <i>J</i> = 7,82 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,05; 167,68; 135,98; 133,31; 133,23; 131,79; 130,46; 128,55; 125,92; 122,90.

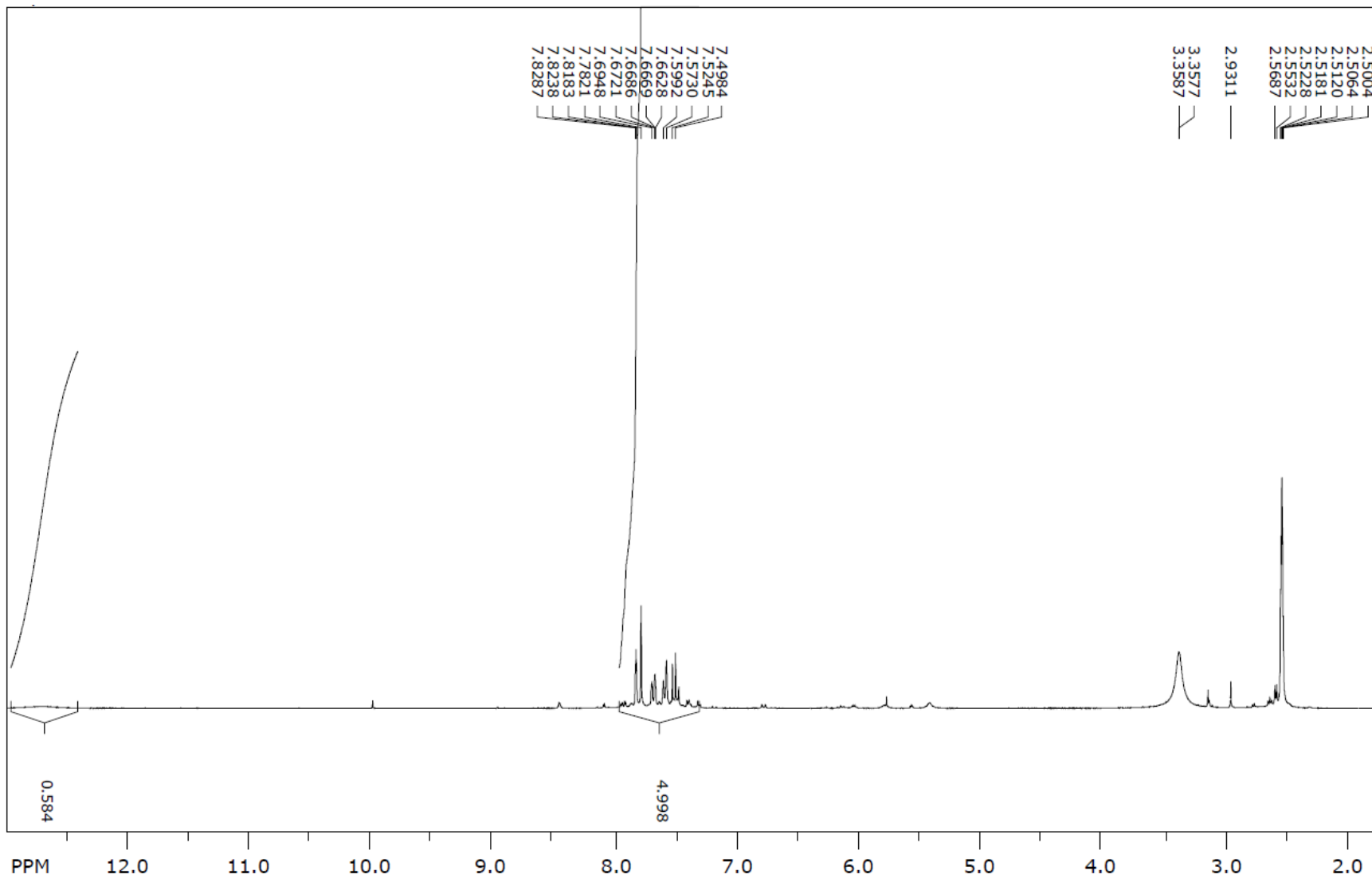
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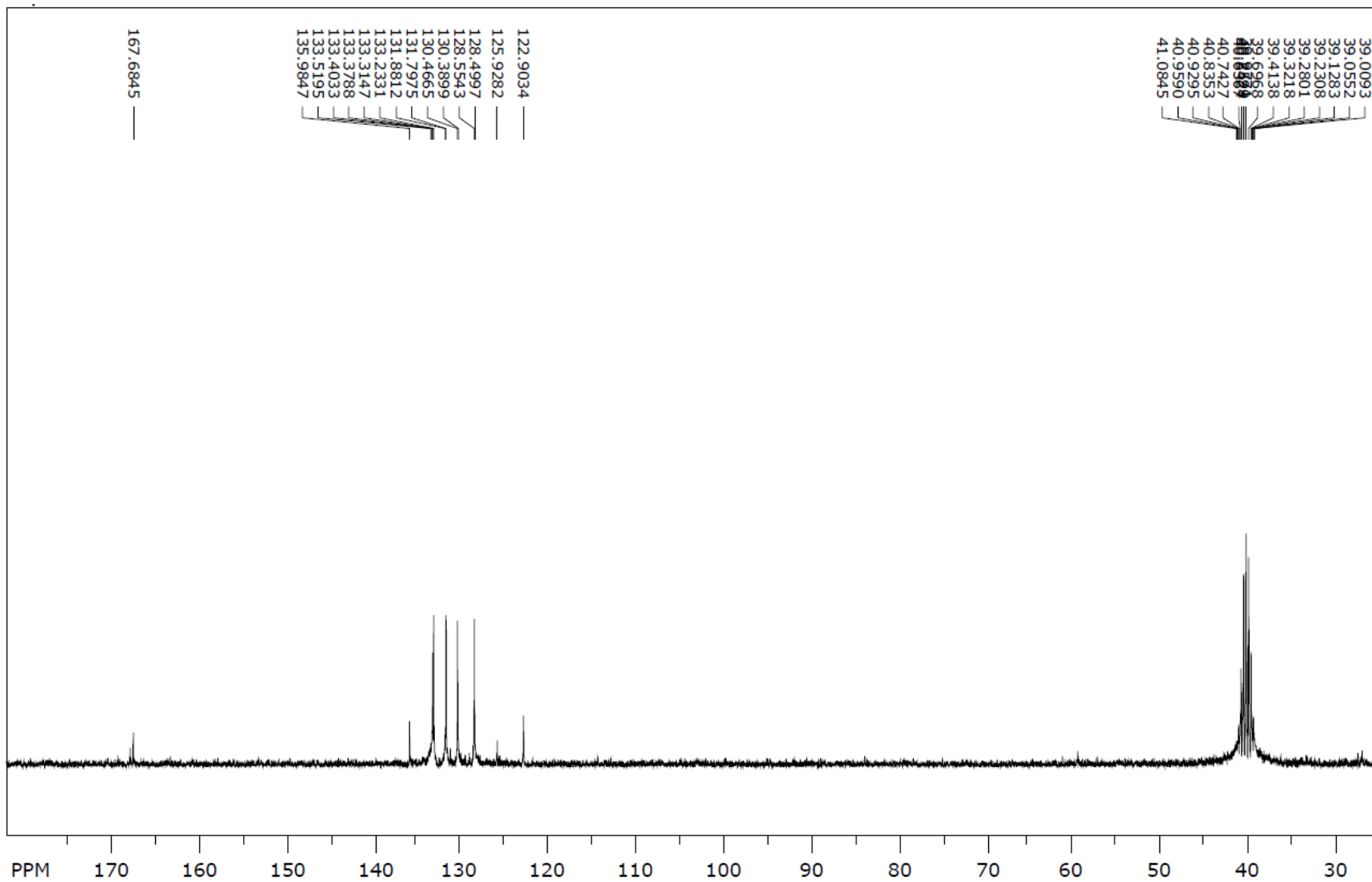
# Maseni spektar (9i)



**<sup>1</sup>H NMR spektar (9i)**



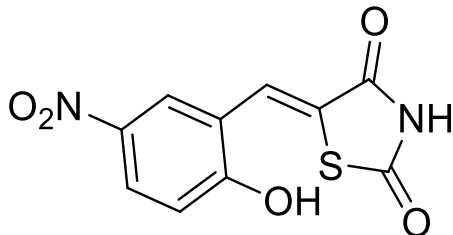
<sup>13</sup>C NMR spektr (9i)



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**5-(2-hidroksi-5-nitrobenziliden) tiazolidin-2,4-dion (9j)**

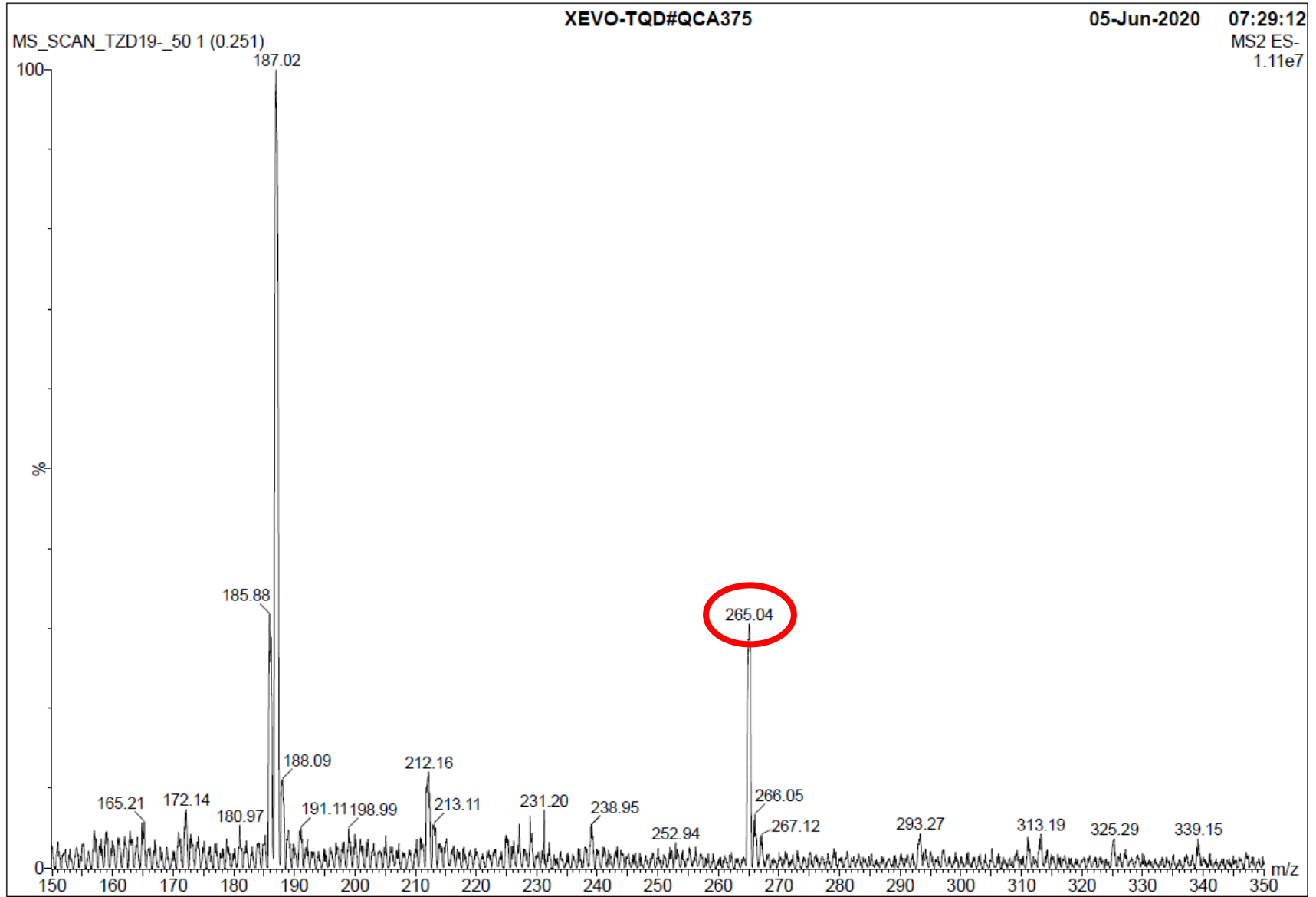
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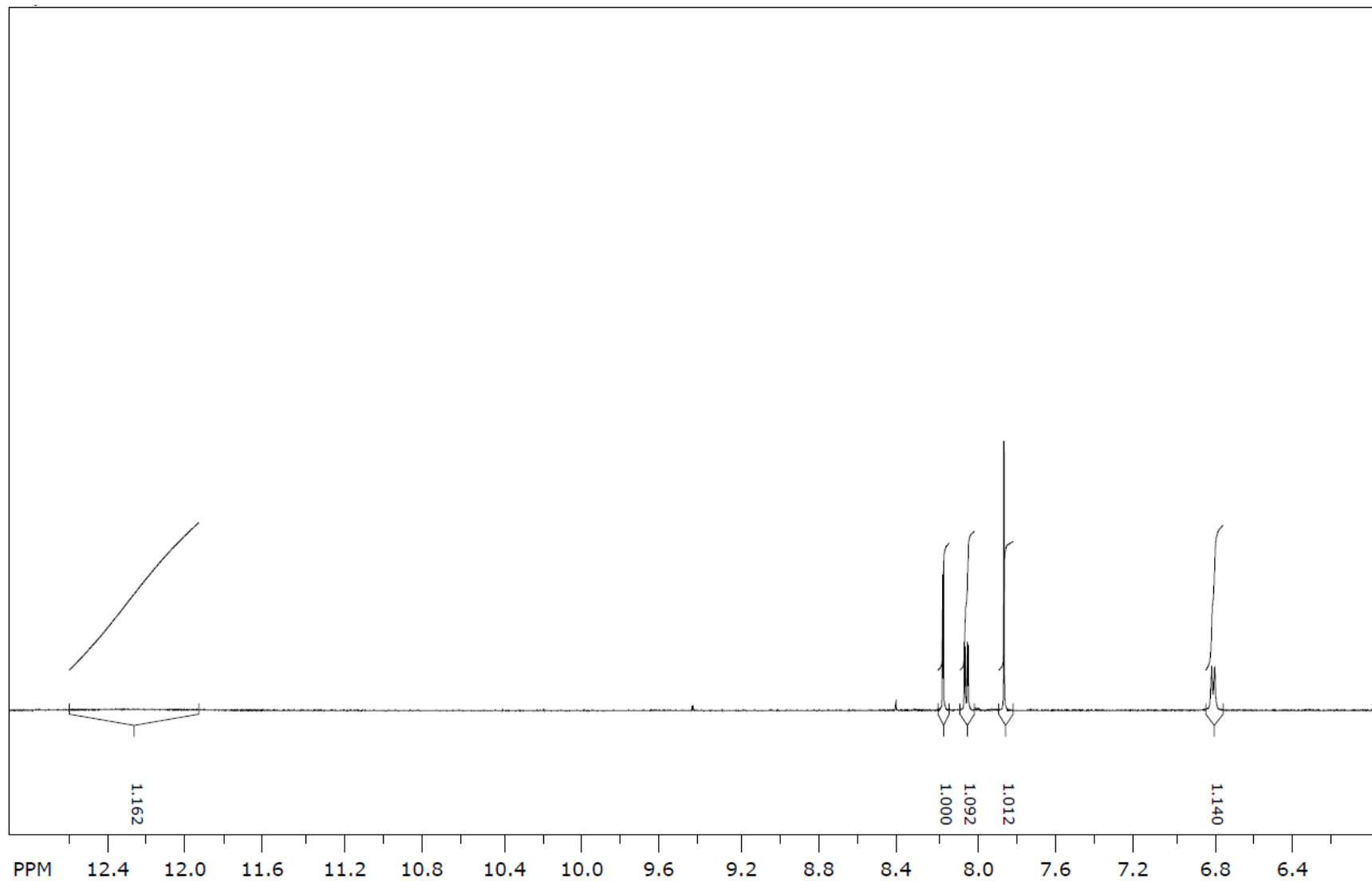
<b>Reaktanti</b>	5-nitrosalicilaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	266,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>6</sub> N <sub>2</sub> O <sub>5</sub> S
<b>Temperatura tališta</b>	226 – 228 °C
<b>Boja kristala</b>	Crvena
<b>R<sub>f</sub></b>	0,49
<b>LC/MS/MS <i>m/z</i> (M-)</b>	265,04
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 8,40 (s, 1H, OH), 8,17 (d, <i>J</i> = 2,82 Hz, 1H, arom.), 8,04 (dd, <i>J</i> = 9,24; 2,82 Hz, 1H, arom.), 7,85 (s, 1H, arom.), 6,80 (d, <i>J</i> = 9,18 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 169,06; 127,19; 125,27; 125,07; 121,01; 117,88.

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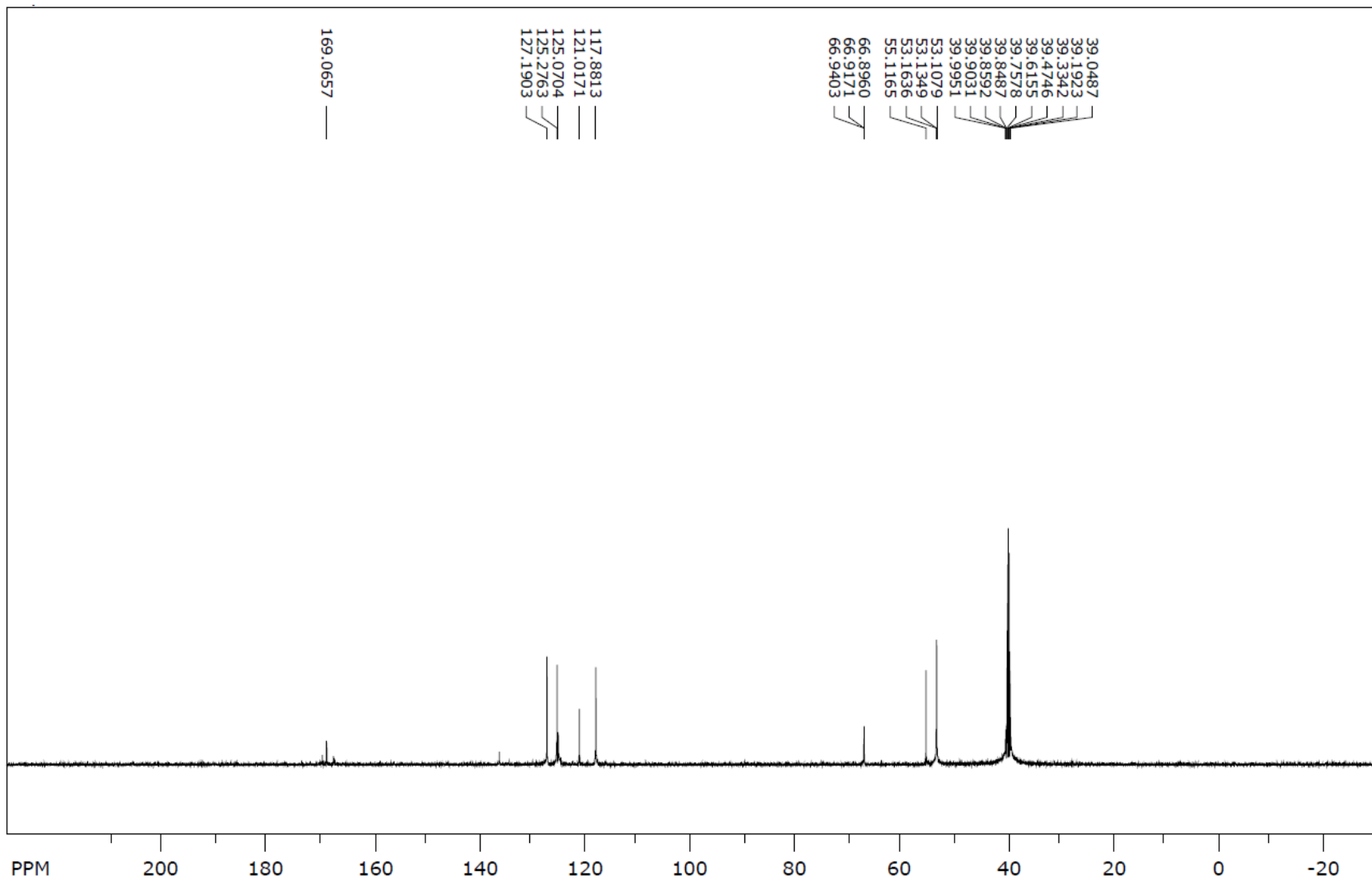
# Maseni spektrar (9j)



**<sup>1</sup>H NMR spektr (9j)**



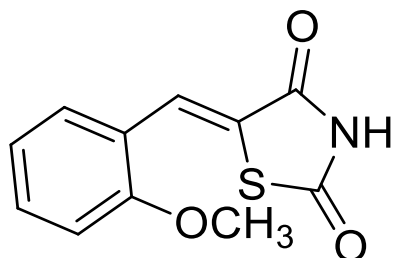
**<sup>13</sup>C NMR spektr (9j)**



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**5-(2-metoksibenziliden) tiazolidin-2,4-dion (9k)**

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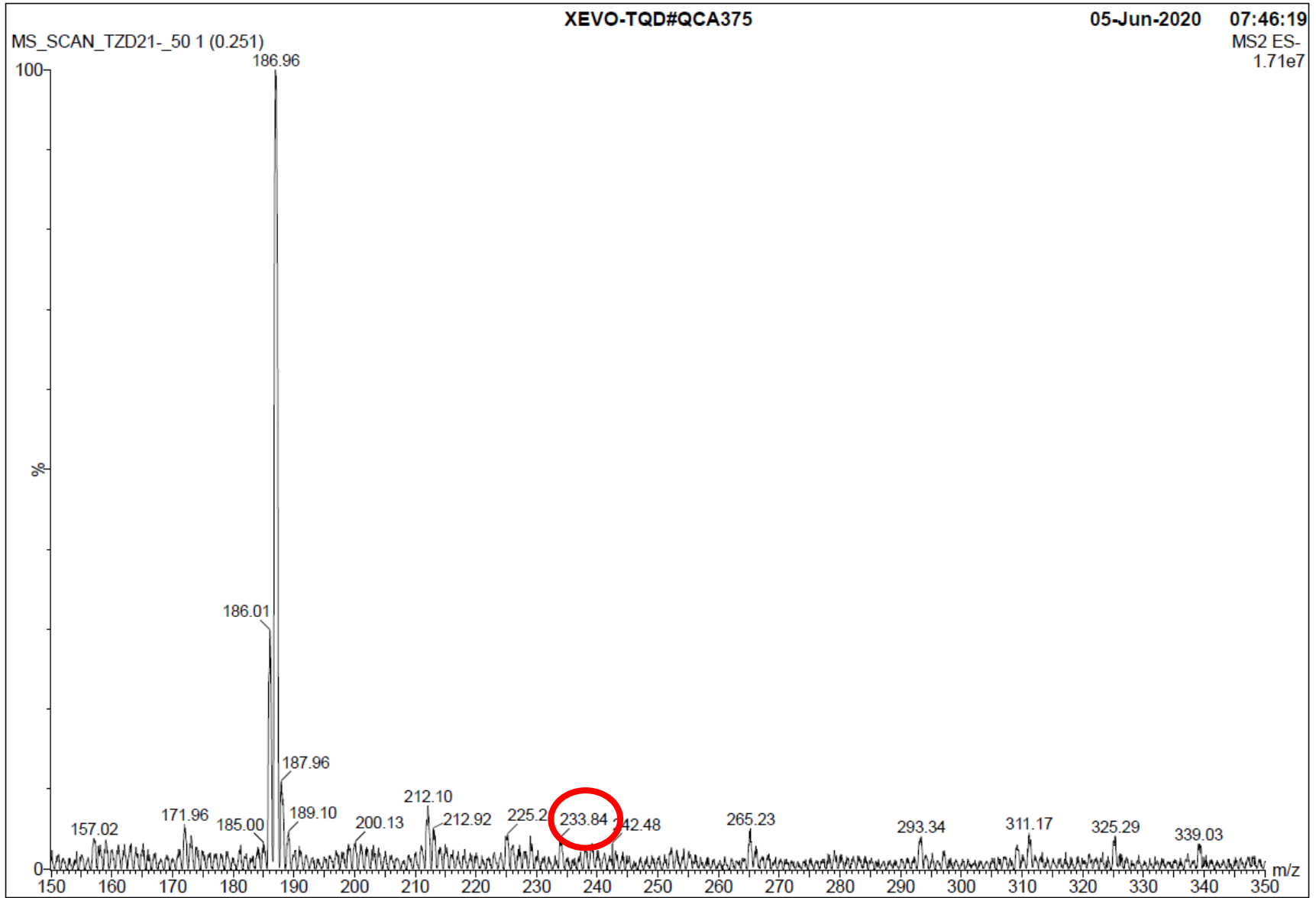


<b>Reaktanti</b>	2-metoksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	235,26 g/mol
<b>Molekulska formula</b>	C <sub>11</sub> H <sub>9</sub> NO <sub>3</sub> S
<b>Temperatura tališta</b>	240 – 241 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,82
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	233,84
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,54 (s, 1H, NH), 7,95 (s, 1H, CH), 7,45 – 7,48 (m, 1H, arom.), 7,39 – 7,40 (dd, <i>J</i> = 7,74; 1,38 Hz, 1H, arom.), 7,14 (d, <i>J</i> = 8,22 Hz, 1H, arom.), 7,08 (t, <i>J</i> = 7,53 Hz, 1H, arom.), 3,87 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,09; 167,41; 132,36; 128,52; 126,42; 123,43; 121,41, 120,90; 111,82; 55,73.

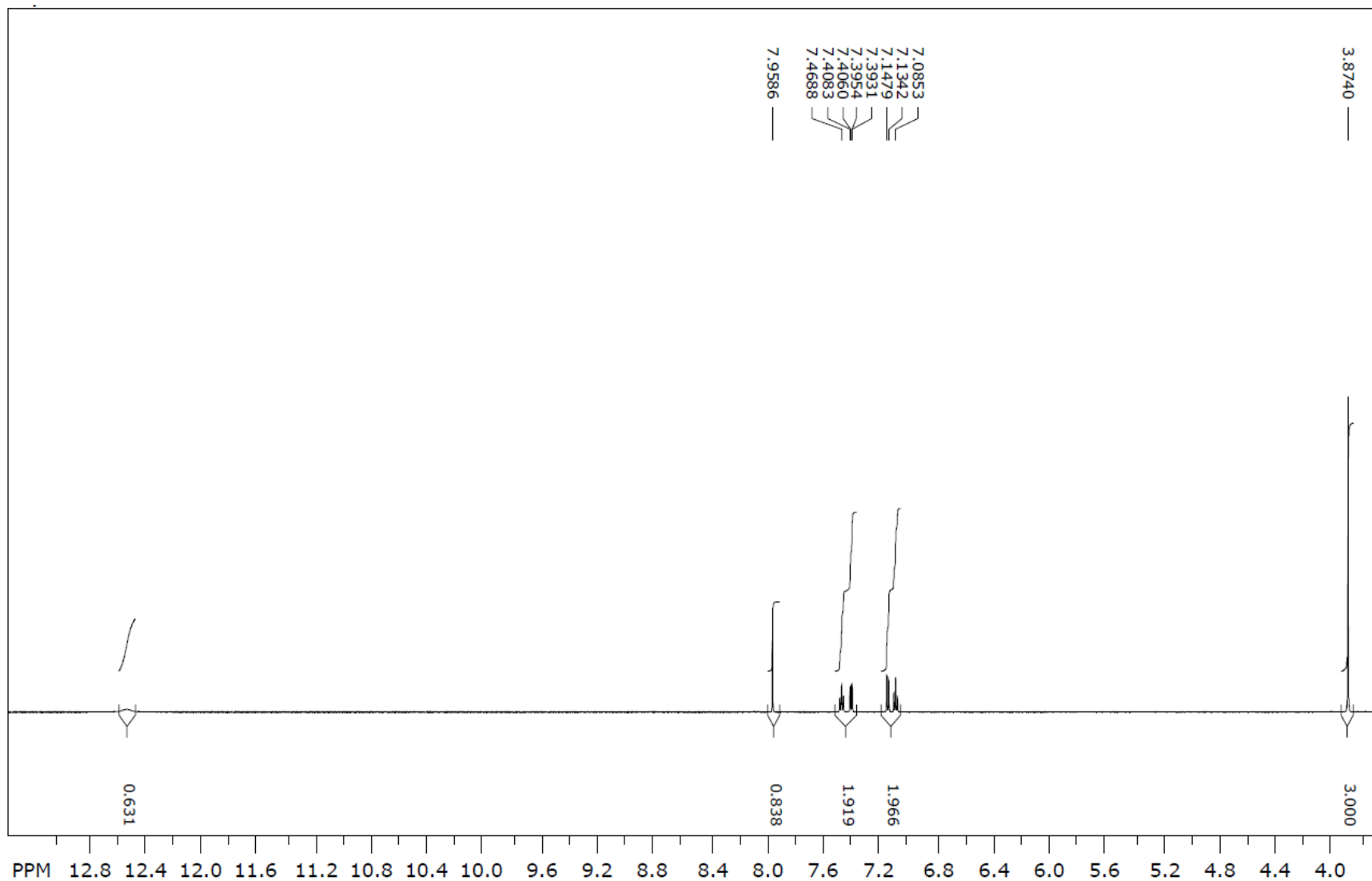
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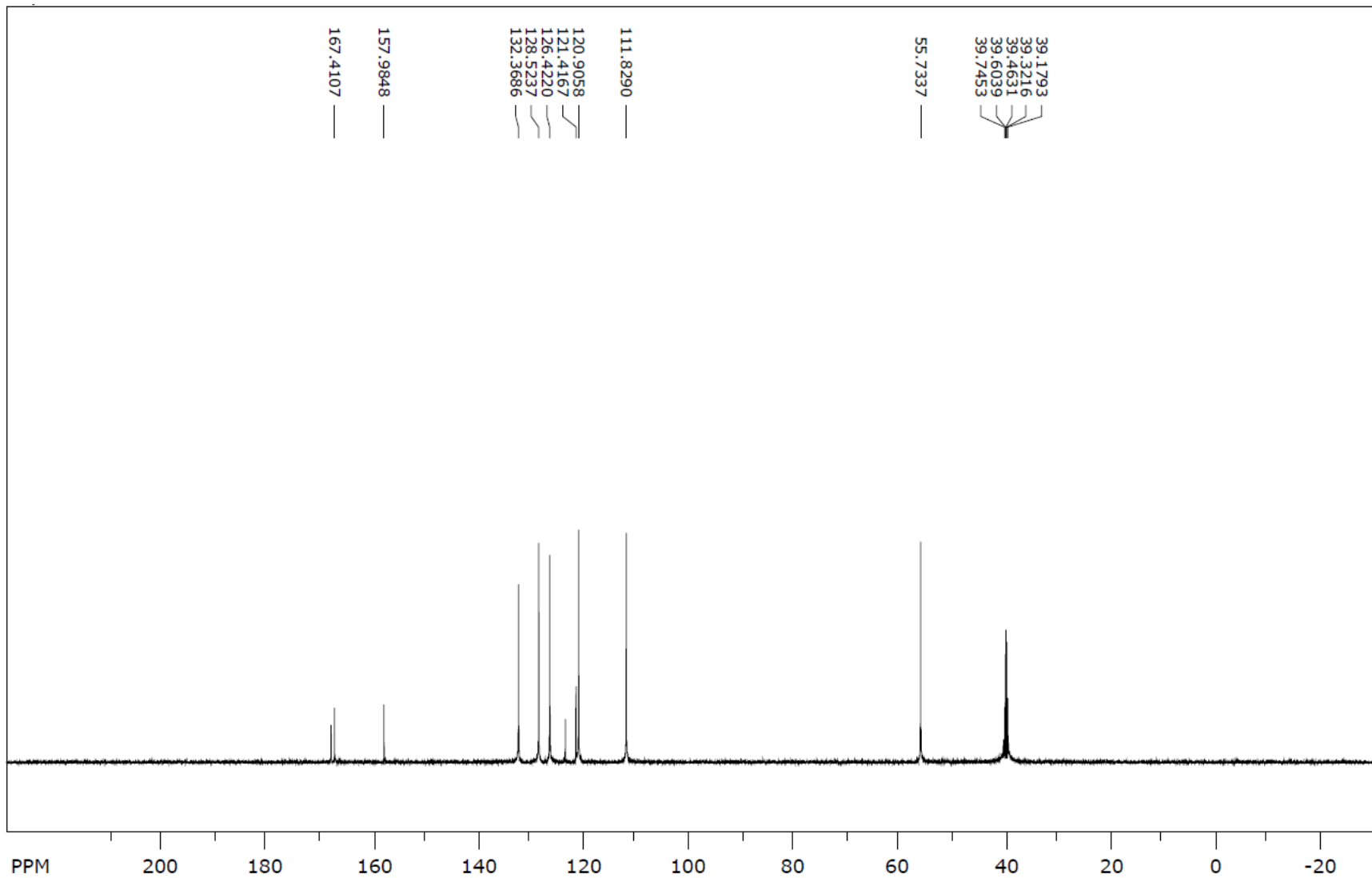
# Maseni spektar (9k)



<sup>1</sup>H NMR spektr (9k)



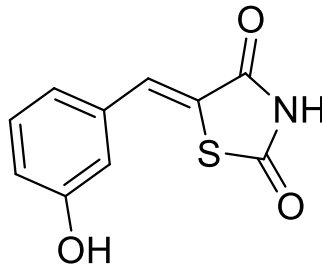
**<sup>13</sup>C NMR spektar (9k)**



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**5-(3-hidroksibenziliden) tiazolidin-2,4-dion (9I)**

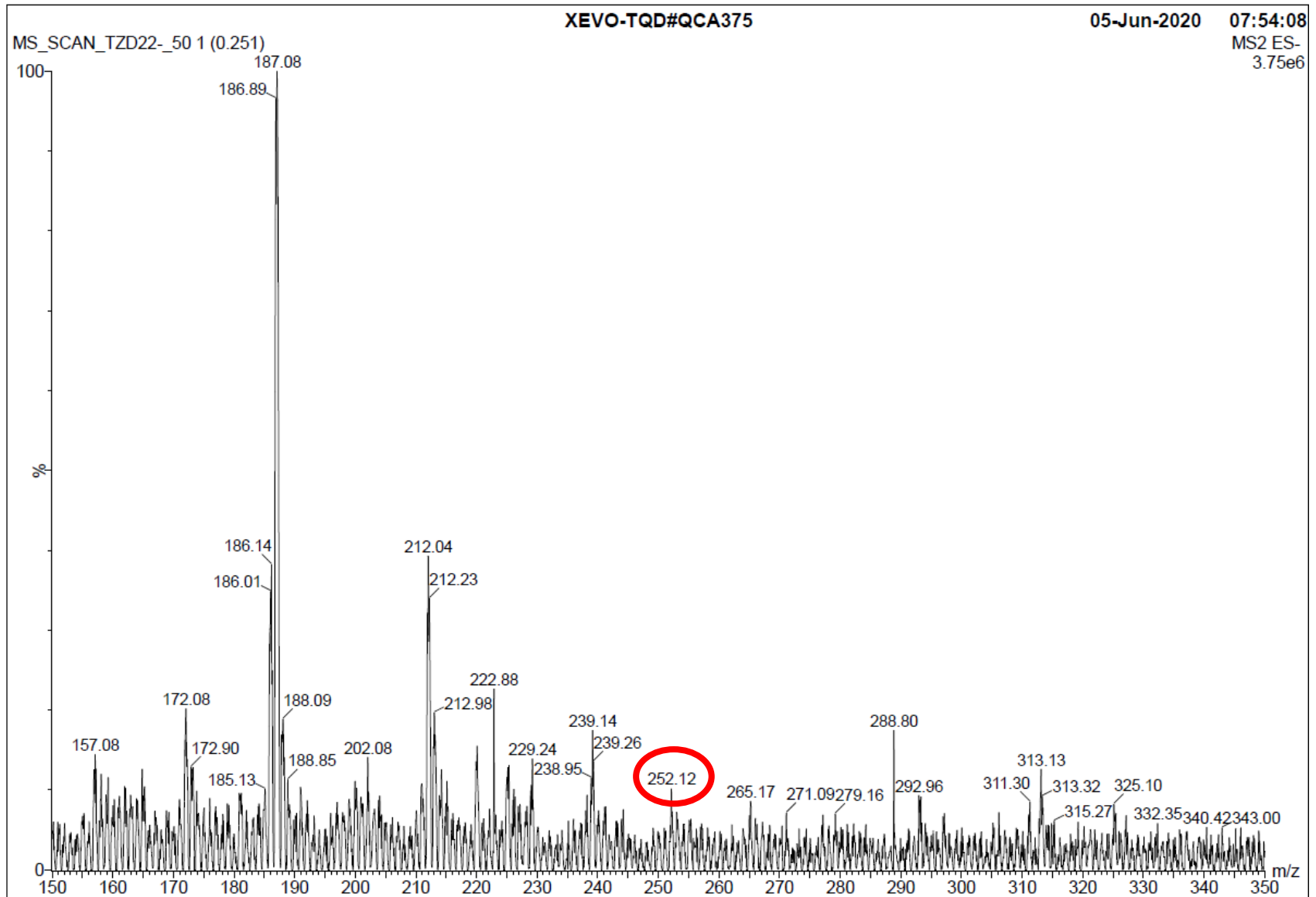
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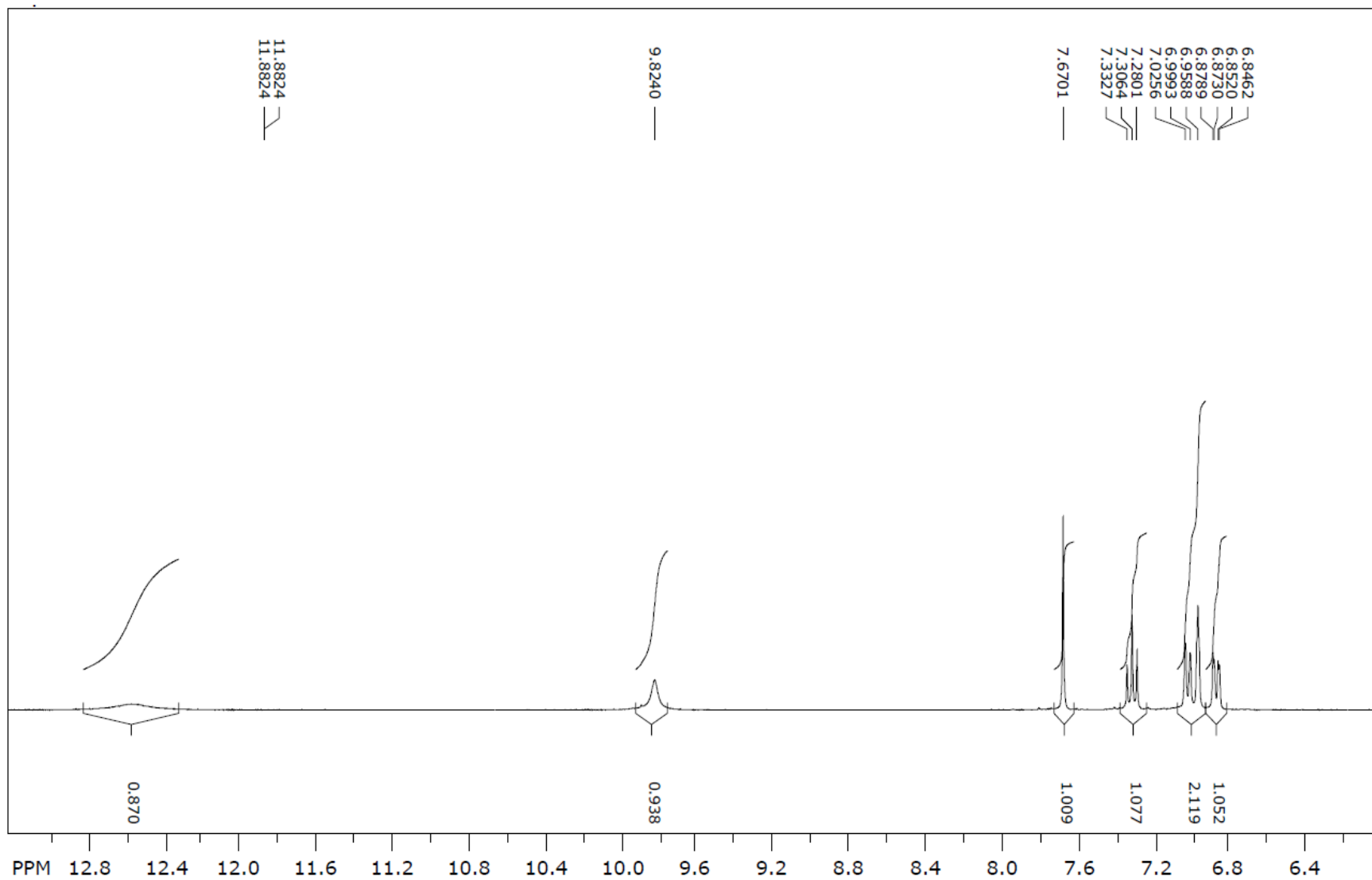
<b>Reaktanti</b>	3-hidroksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	221,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> NO <sub>3</sub> S
<b>Temperatura tališta</b>	262 – 264 °C (lit. 246 – 248 °C, Durai Ananda Kumar i sur., 2015)
<b>Boja kristala</b>	Svijetlosmeđa
<b>R<sub>f</sub></b>	0,64
<b>LC/MS/MS m/z (M-+MeOH)</b>	252,12
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,58 (s, 1H, NH), 9,82 (s, 1H, OH), 7,67 (s, 1H, CH), 7,31 (t, <i>J</i> = 7,89 Hz, 1H, arom.), 7,01 (d, <i>J</i> = 7,89 Hz, 1H, arom.), 6,96 (s, 1H, arom.), 6,86 (dd, <i>J</i> = 8,07; 1,76 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,42; 167,80; 158,32; 134,65; 132,45; 130,83; 123,75; 121,78; 118,19; 116,37.

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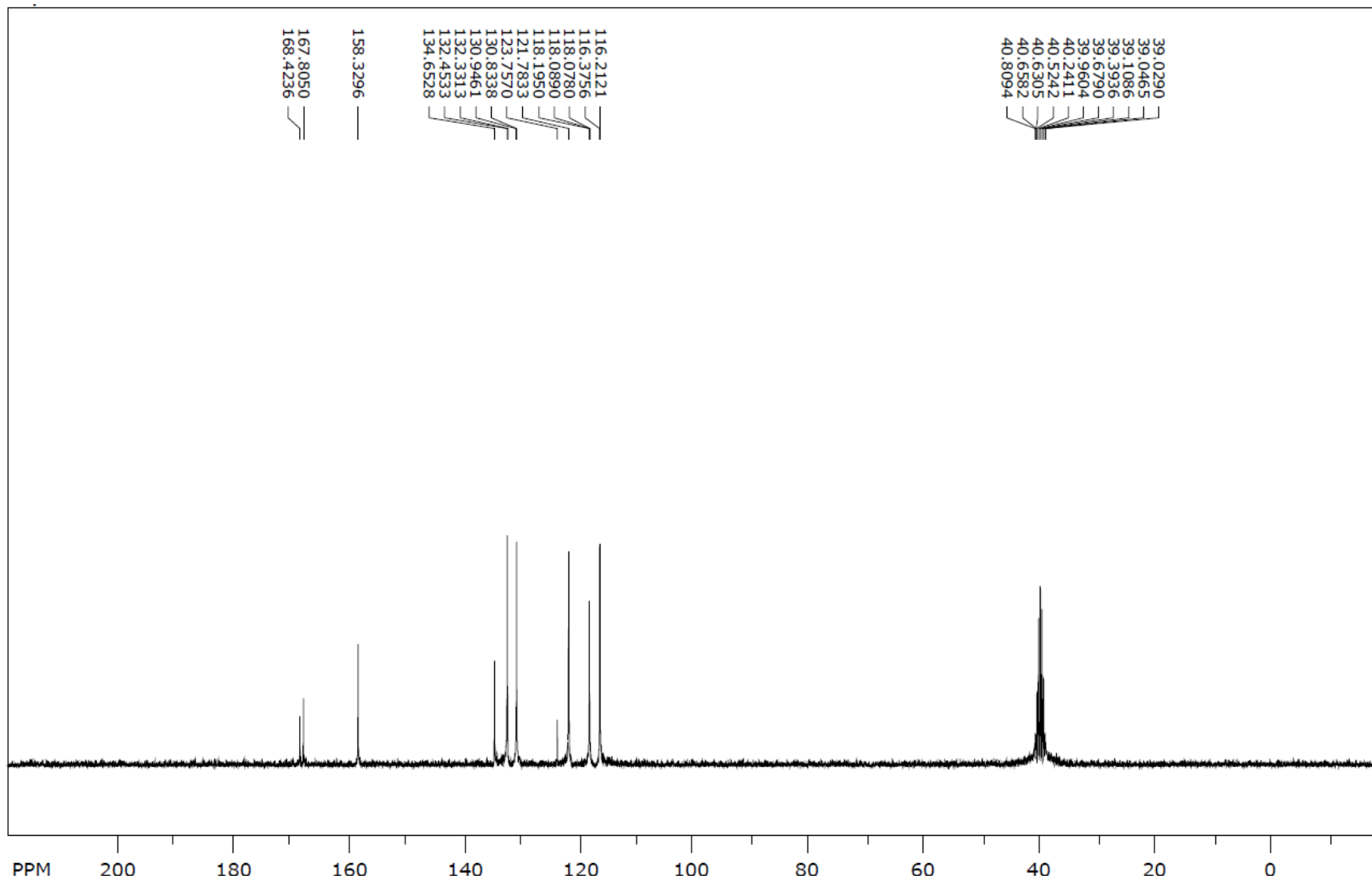
# Maseni spektar (9I)



# <sup>1</sup>H NMR spektr (9I)



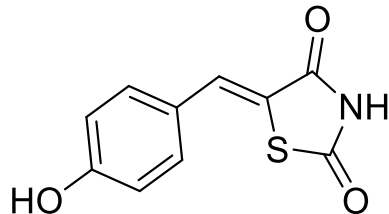
# <sup>13</sup>C NMR spektr (9I)



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**5-(4-hidroksibenziliden) tiazolidin-2,4-dion (9m)**

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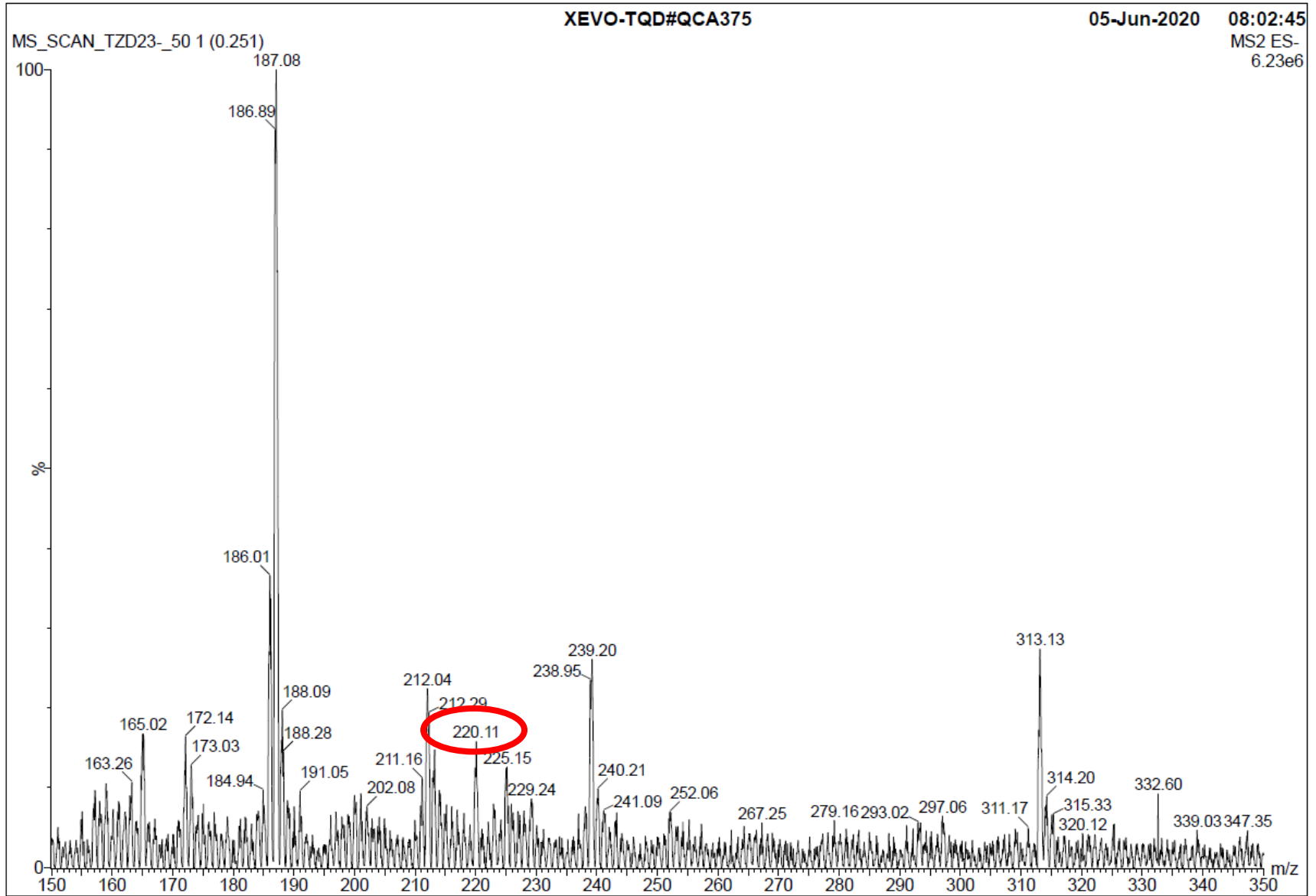
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<b>Reaktanti</b>	4-hidroksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	221,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> NO <sub>3</sub> S
<b>Temperatura tališta</b>	296 – 297 °C (lit. 280 – 281 °C, Durai Ananda Kumar i sur., 2015; 299 °C, Ha i sur., 2012; 322 °C, Metwally i sur., 2011; 311 – 313 °C, Yang i Yang, 2011)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,62
<b>LC/MS/MS <i>m/z</i> (M-)</b>	220,11
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,43 (s, 1H, NH), 10,30 (s, 1H, OH), 7,69 (s, 1H, CH), 7,45 (d, <i>J</i> = 8,58 Hz, 2H, arom.), 6,91 (d, <i>J</i> = 8,64 Hz, 2H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,05; 167,52; 159,84; 132,35; 132,24; 123,90; 118,97; 116,28.

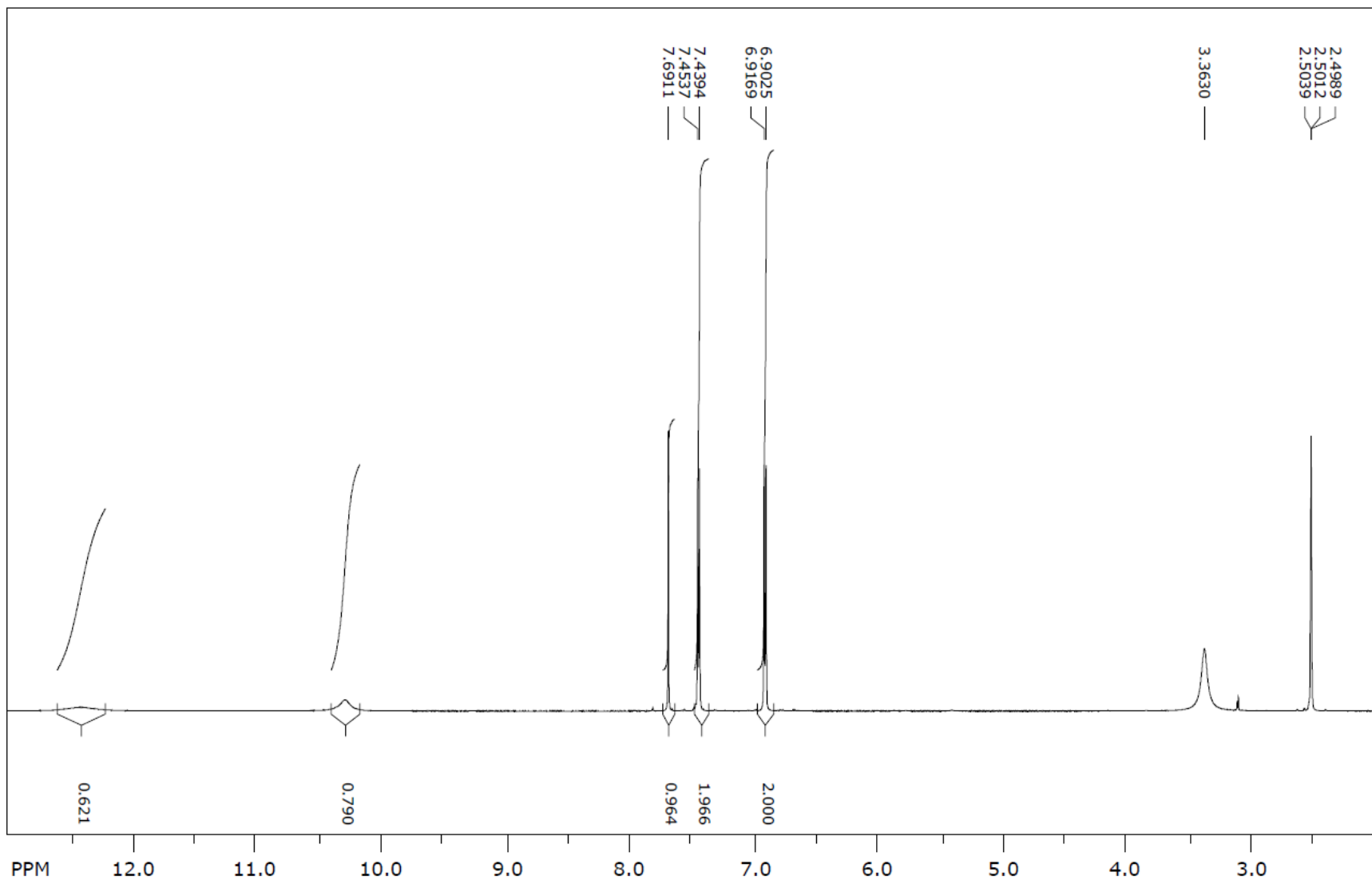
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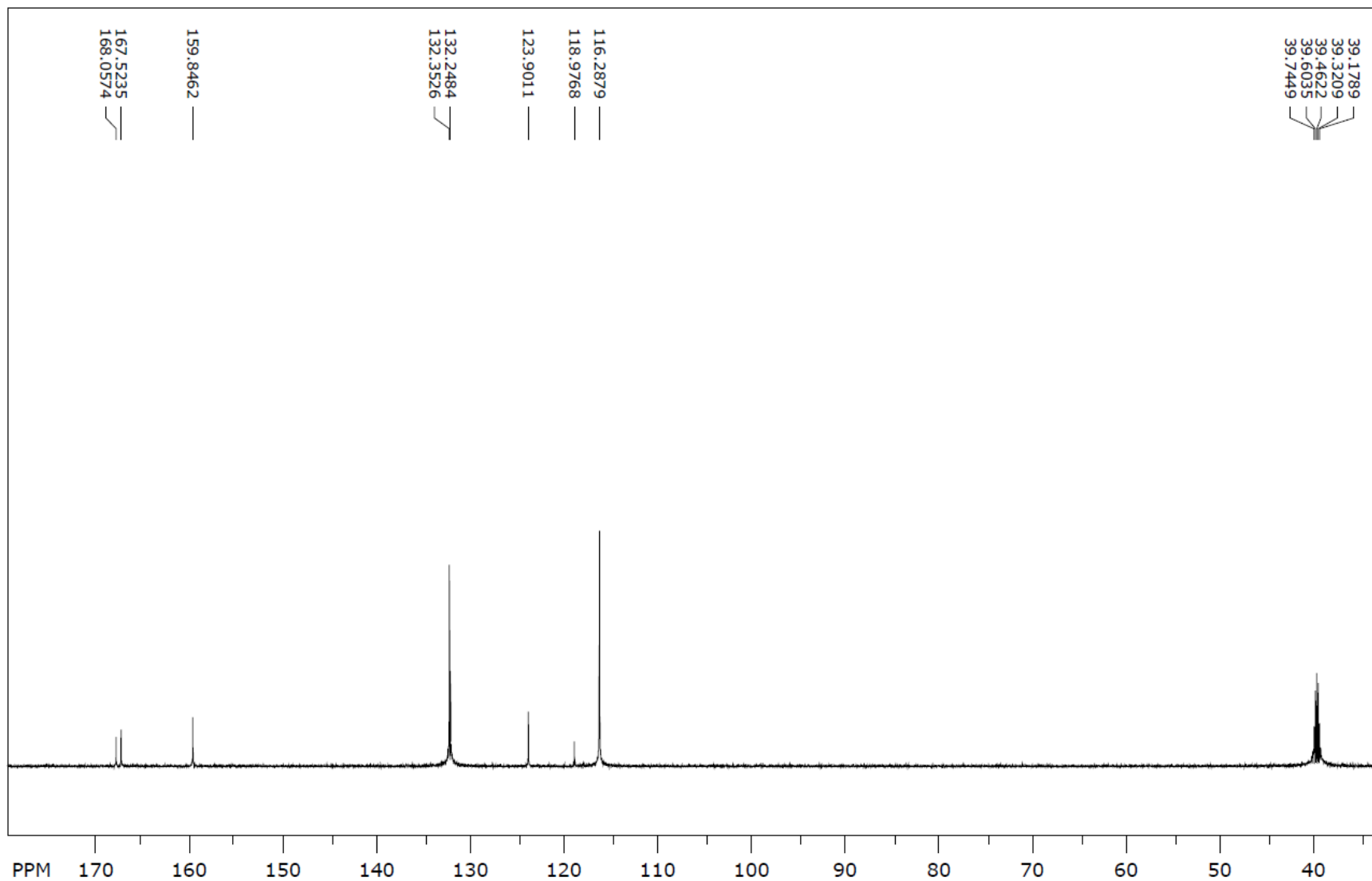
# Maseni spektar (9m)



**<sup>1</sup>H NMR spektr (9m)**



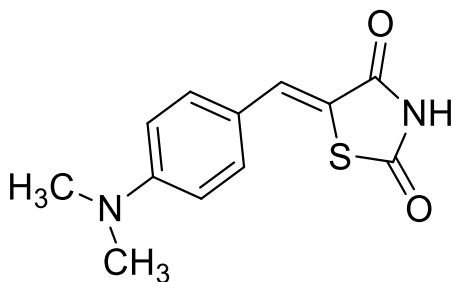
**<sup>13</sup>C NMR spektr (9m)**



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**5-(4-(dimetilamino)benziliden) tiazolidin-2,4-dion (9n)**

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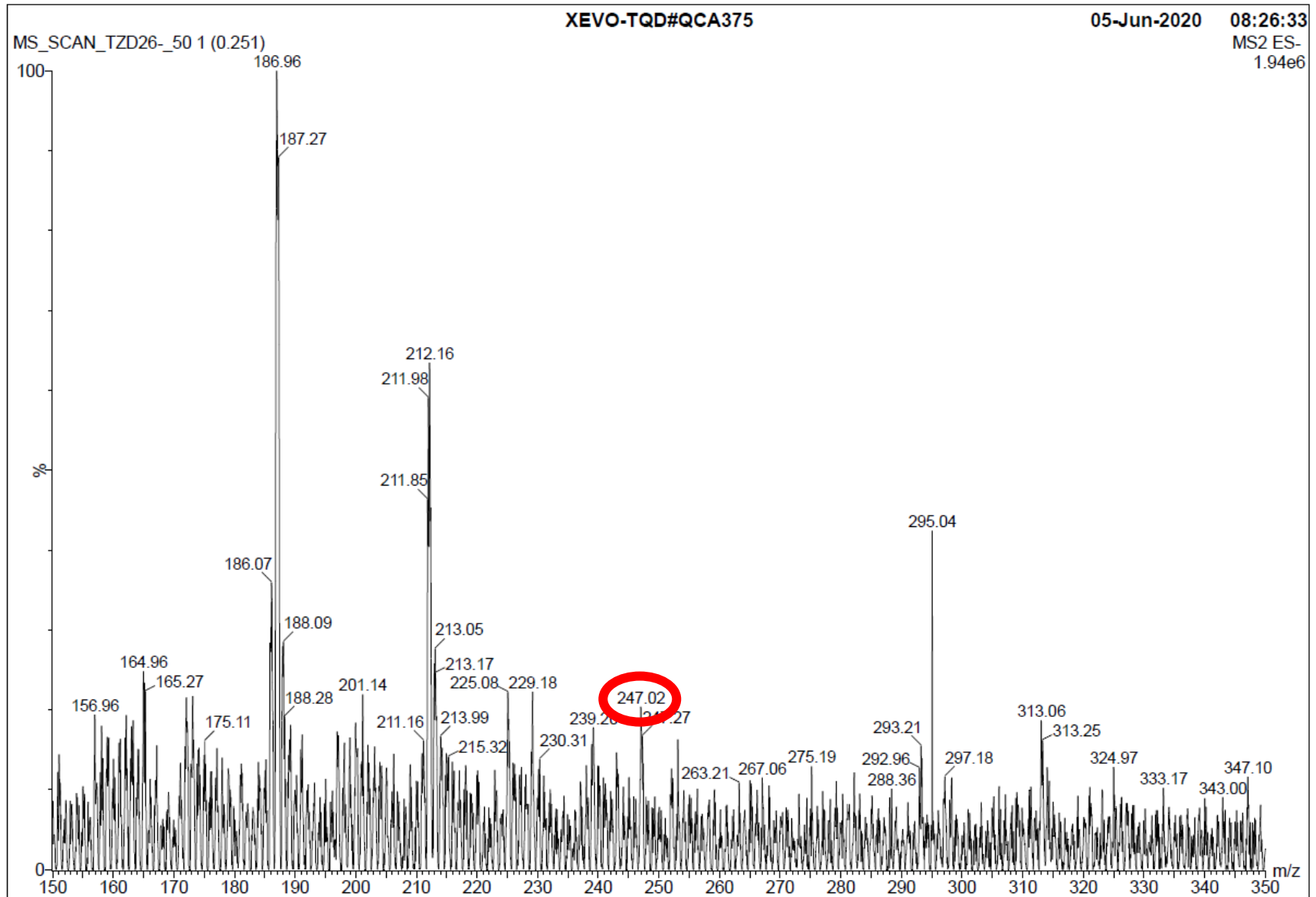


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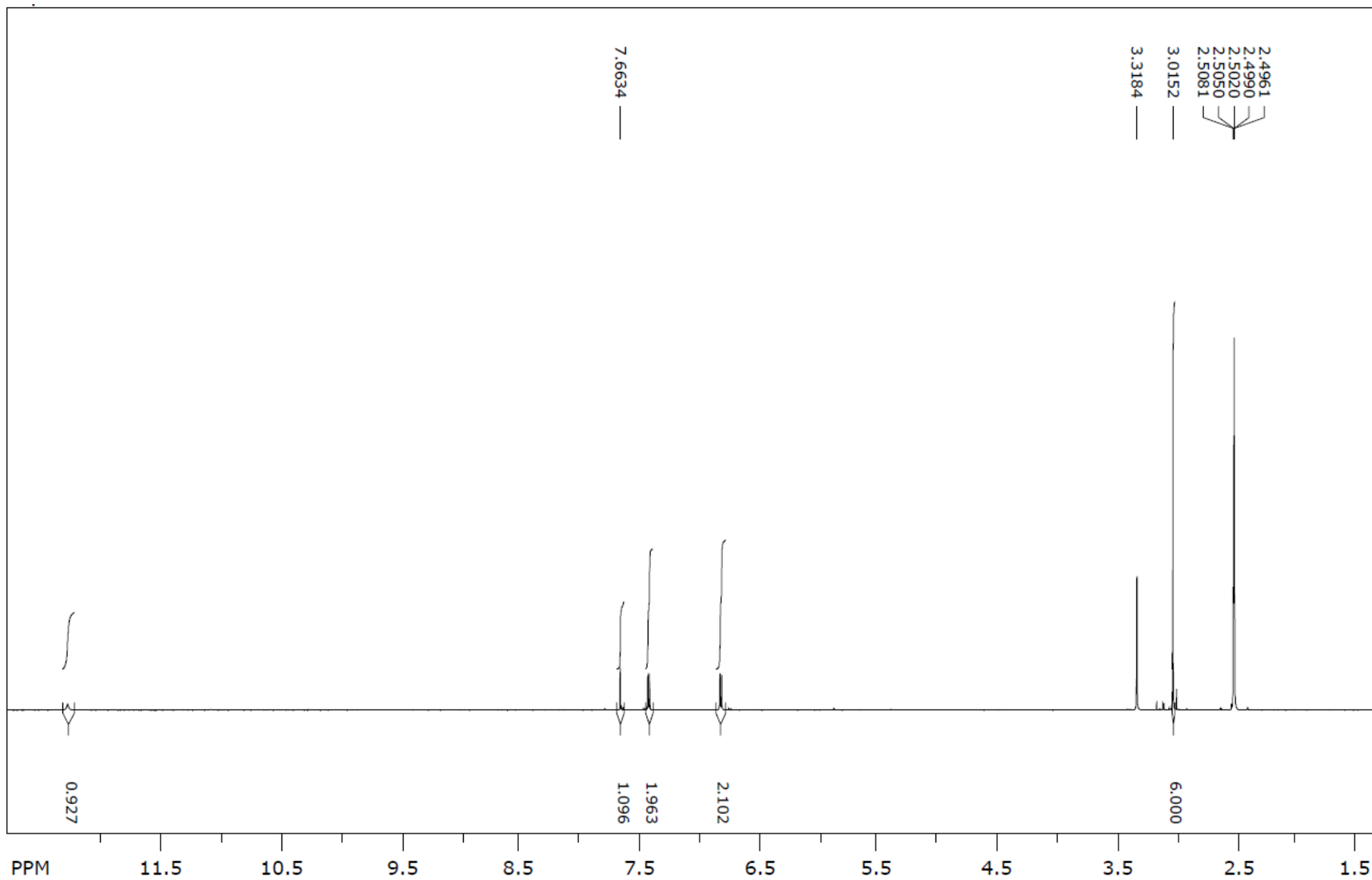
<b>Reaktanti</b>	4-dimetilaminobenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročiščavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	248,30 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> S
<b>Temperatura tališta</b>	286 – 289 °C (lit. 274 – 276 °C, Durai Ananda Kumar i sur., 2015; 282 – 283 °C, Shelke i sur., 2010)
<b>Boja kristala</b>	Narančasta
<b>R<sub>f</sub></b>	0,77
<b>LC/MS/MS m/z (M-)</b>	247,02
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,31 (s, 1H, NH), 7,66 (s, 1H, CH), 7,43 (d, <i>J</i> = 9,00 Hz, 2H, arom.), 6,82 (d, <i>J</i> = 9,00 Hz, 2H, arom.), 3,01 (s, 6H, CH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,15; 167,57; 151,39; 132,84; 132,08; 127,75; 119,79; 115,69; 111,99.

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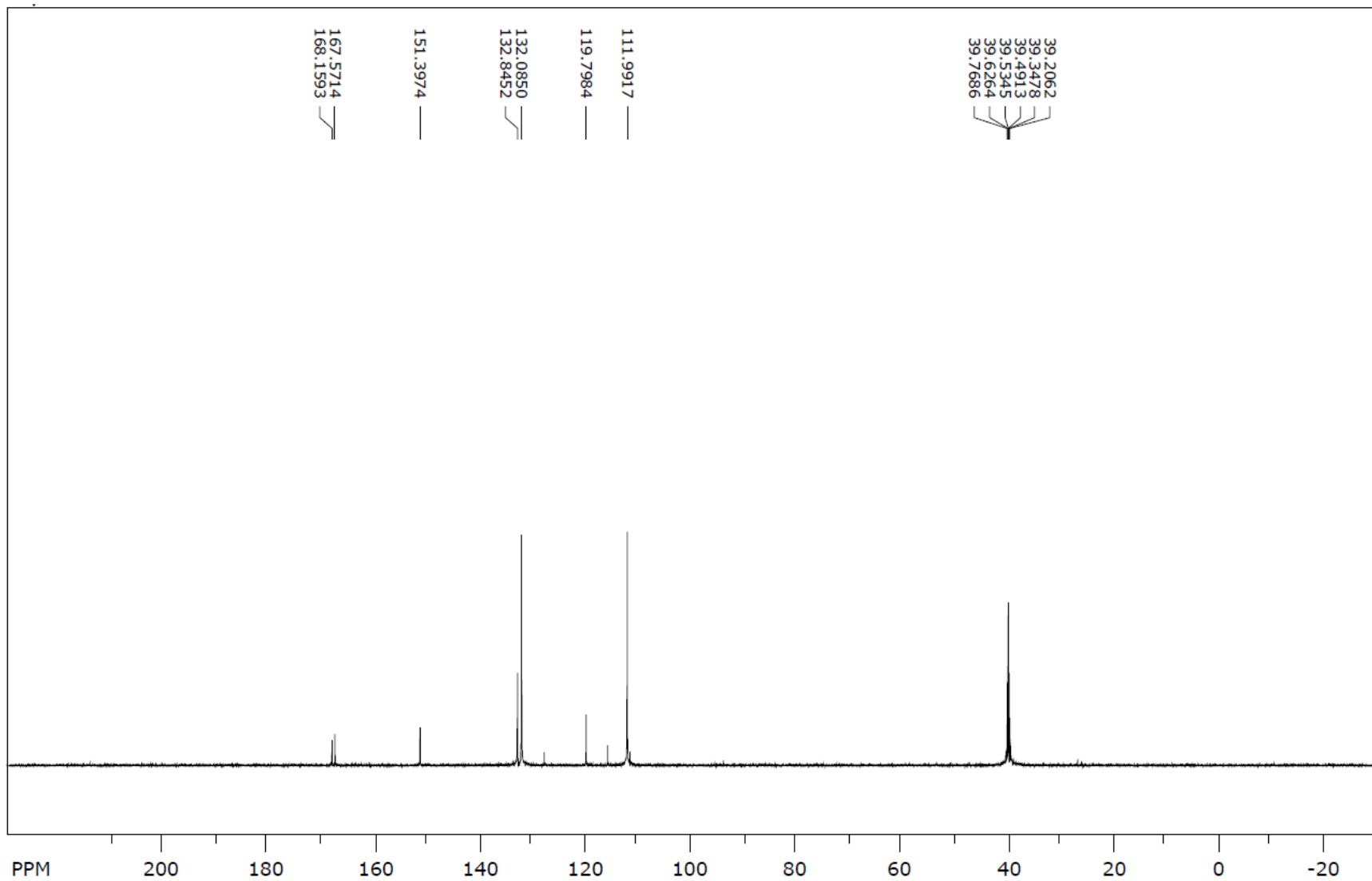
# Maseni spektar (9n)



<sup>1</sup>H NMR spektr (9n)



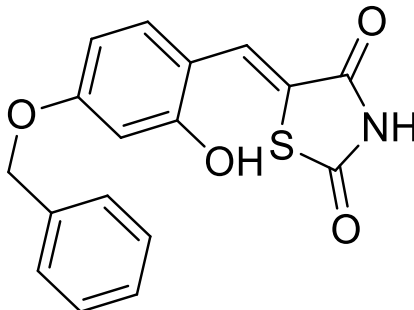
**<sup>13</sup>C NMR spektr (9n)**



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**5-(4-(benziloksi)-2-hidroksibenziliden) tiazolidin-2,4-dion (9o)**

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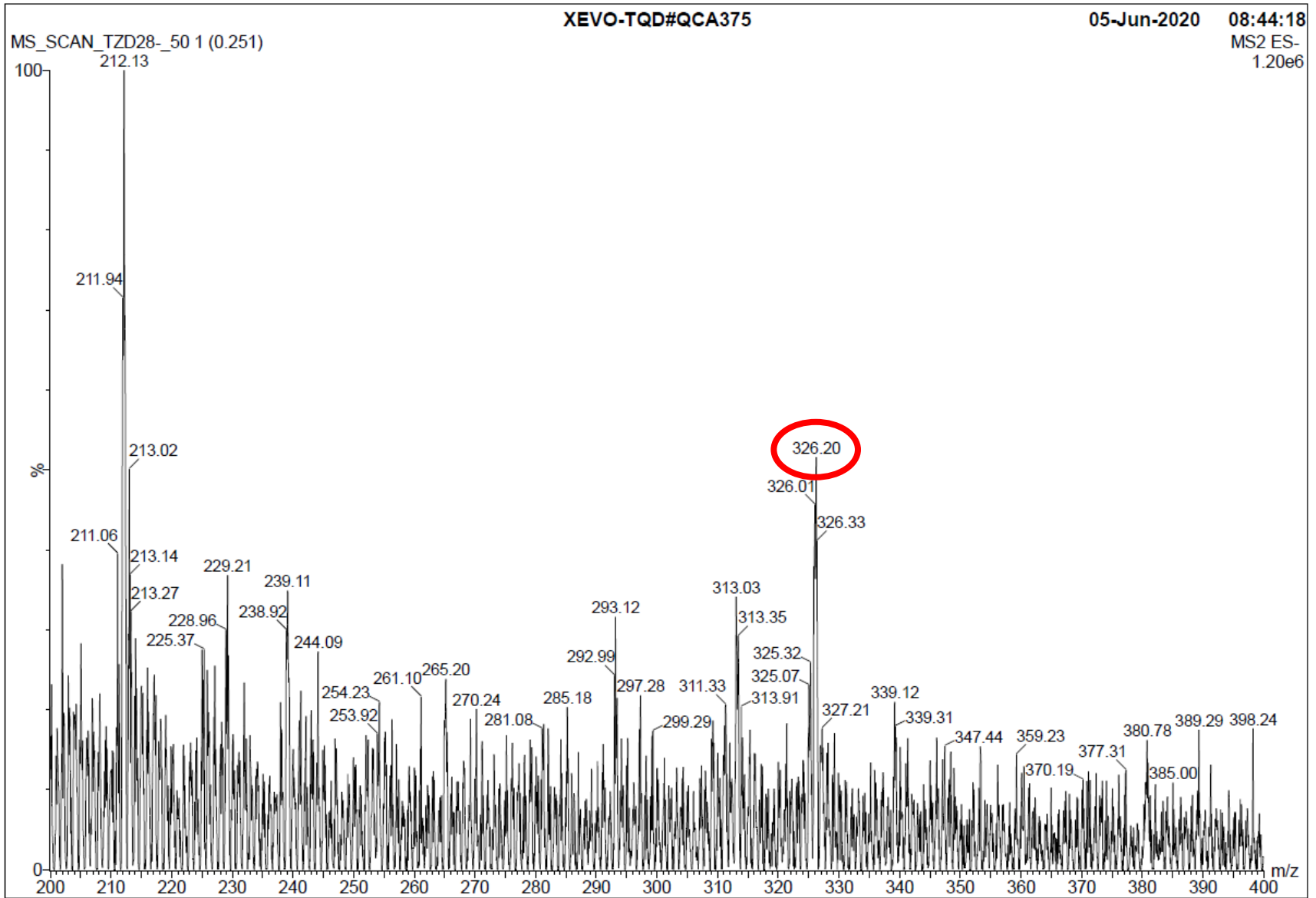
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<b>Reaktanti</b>	4-(benziloksi) salicilaldehid (1 mmol) i tiazolidindion (1 mmol)
<b>Metoda pročišćavanja</b>	Ispran etanolom
<b>Molekulska masa</b>	327,35 g/mol
<b>Molekulska formula</b>	C <sub>17</sub> H <sub>13</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	184 – 188 °C
<b>Boja kristala</b>	Tamnožuta
<b>R<sub>f</sub></b>	0,63
<b>LC/MS/MS <i>m/z</i> (M<sup>-</sup>)</b>	326,20
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,39 (s, 1H, NH), 10,54 (s, 1H, OH), 7,91 (s, 1H, CH), 7,44 (d, <i>J</i> = 8,46 Hz, 2H, arom), 7,40 (t, <i>J</i> = 7,47 Hz, 2H, arom.), 7,33 – 7,36 (m, 1H, arom.), 7,28 (d, <i>J</i> = 8,76 Hz, 1H, arom.), 6,65 (dd, <i>J</i> = 8,76; 2,46 Hz, 1H, arom.), 6,57 (d, <i>J</i> = 2,52 Hz, 1H, arom.), 5,11 (s, 2H, CH <sub>2</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 161,08; 158,70; 136,57; 129,40; 128,44; 127,92; 127,69; 113,99; 106,85; 102,01; 69,28; 55,11; 53,13.

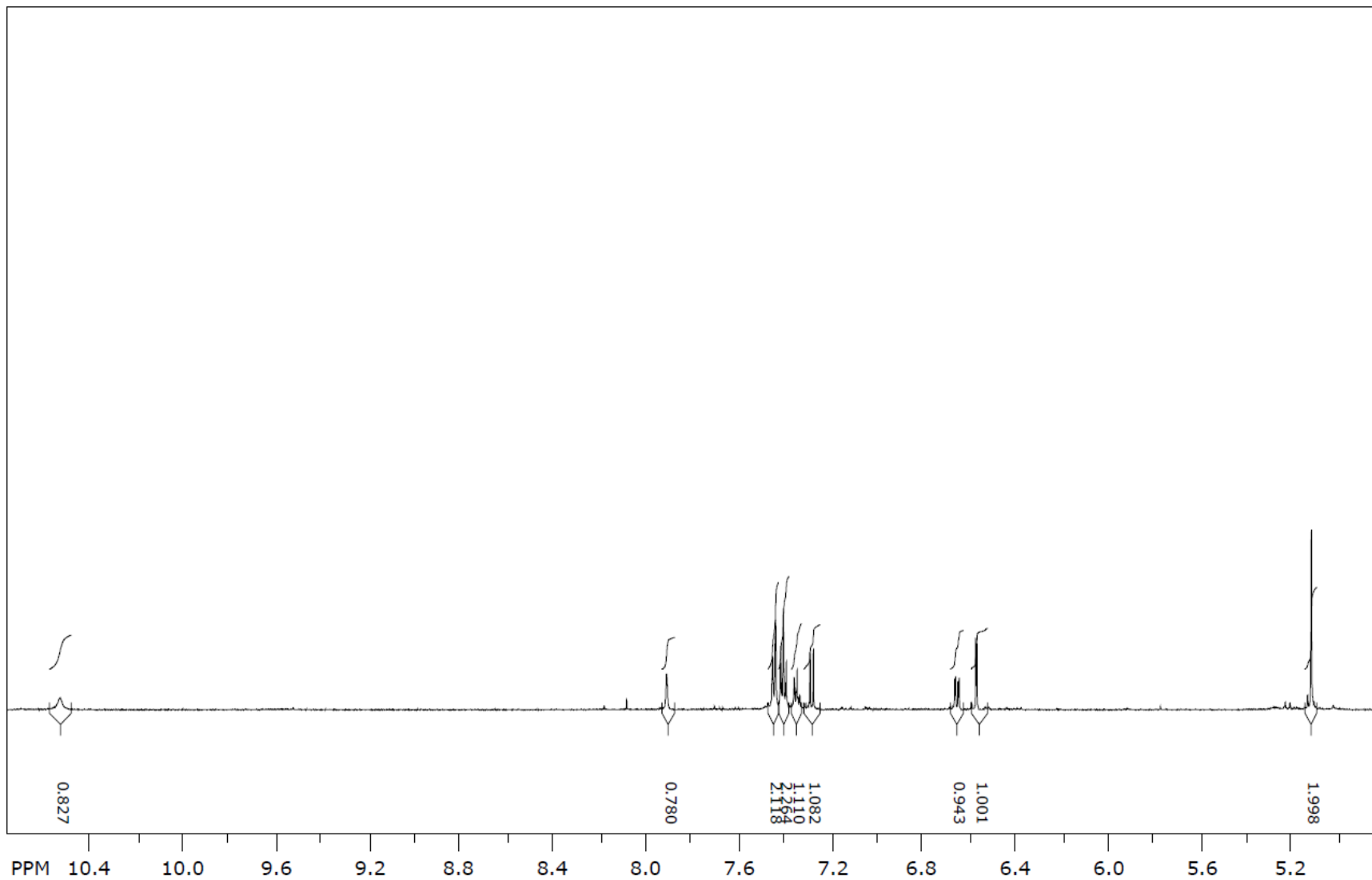
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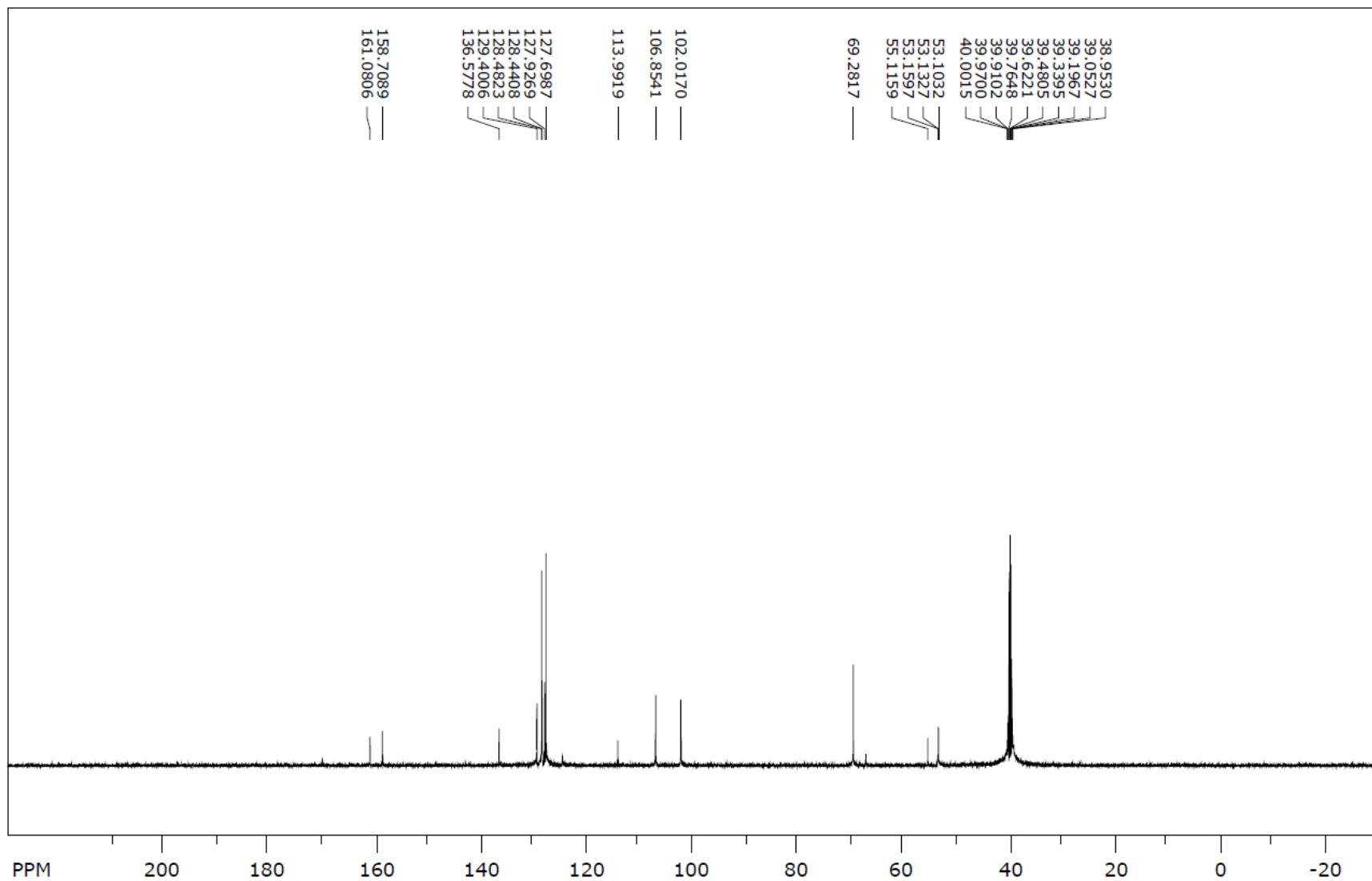
# Maseni spektar (9o)



**<sup>1</sup>H NMR spektr (9o)**



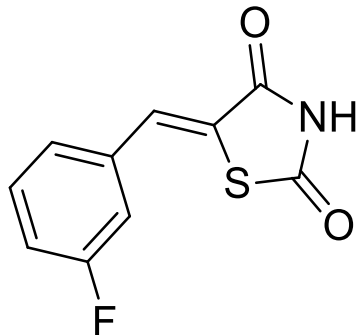
**<sup>13</sup>C NMR spektr (9o)**



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**5-(3-fluorbenziliden) tiazolidin-2,4-dion (9p)**

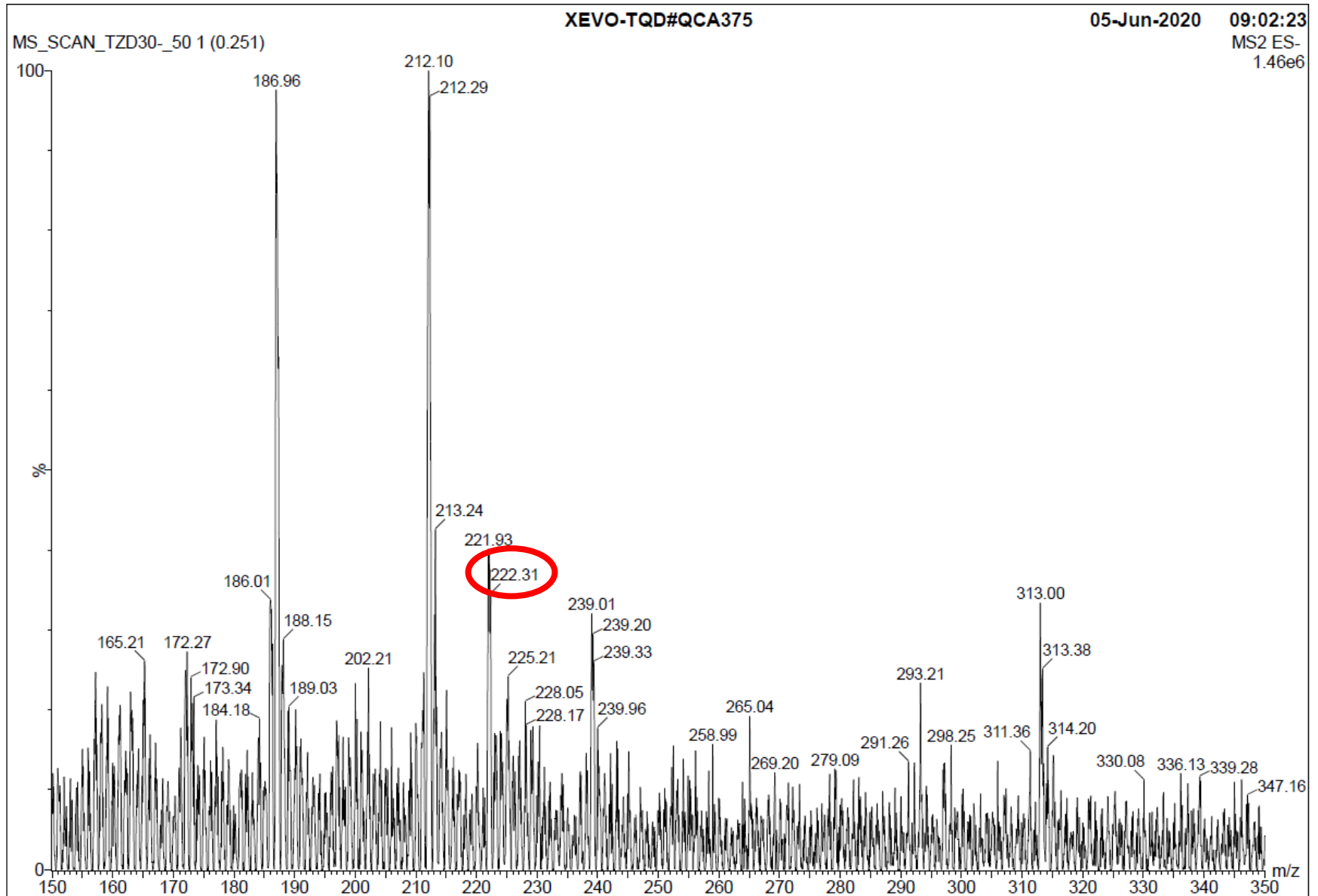
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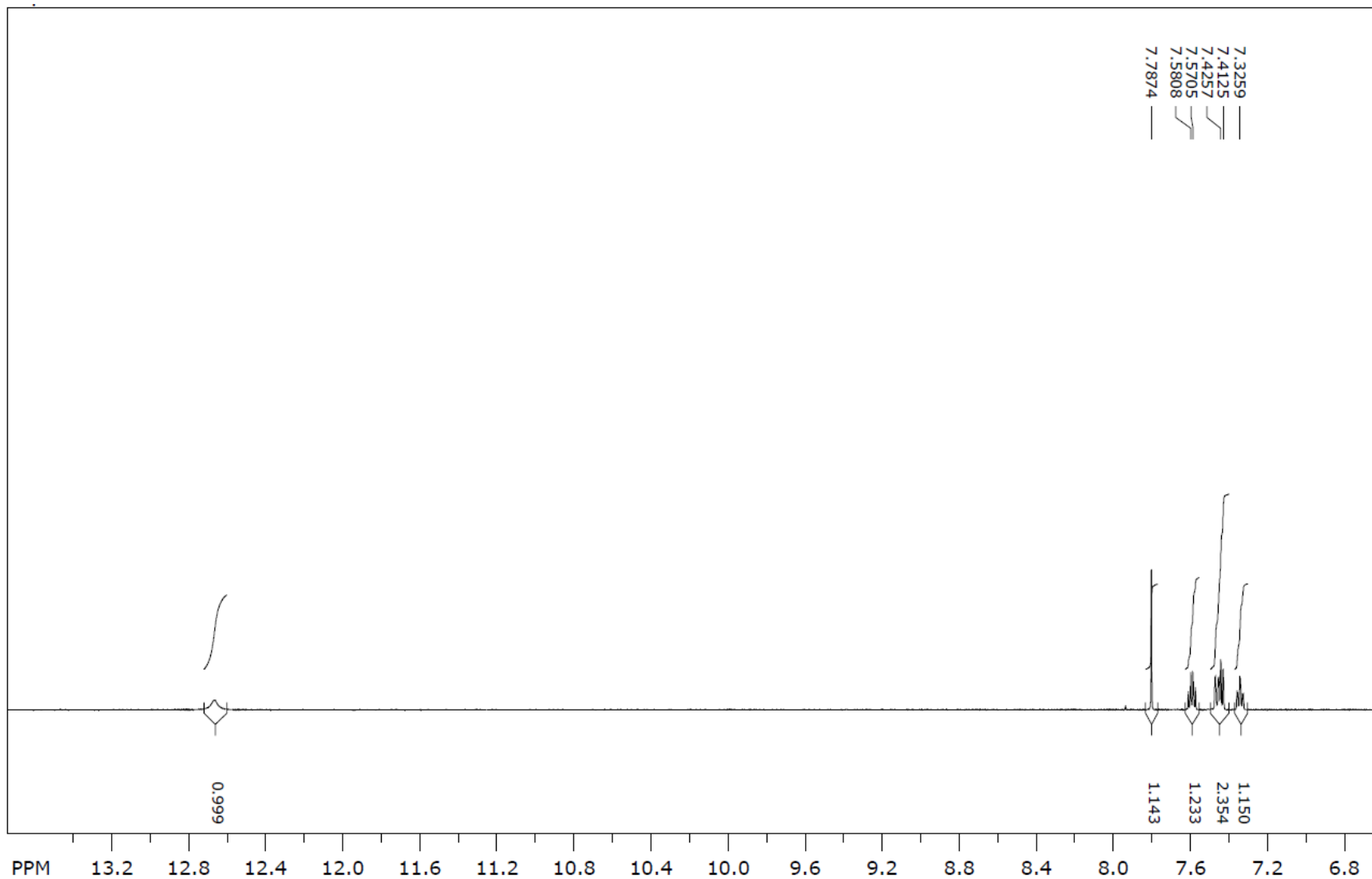
<b>Reaktanti</b>	3-fluorbenzalhid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	223,22 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>6</sub> FNO <sub>2</sub> S
<b>Temperatura tališta</b>	169 – 171 °C (lit. 167 – 168 °C, Sun i sur., 2016)
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,78
<b>LC/MS/MS <i>m/z</i> (M-)</b>	222,31
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,67 (s, 1H, NH), 7,78 (s, 1H, CH), 7,58 (q, <i>J</i> = 7,98; 6,18 Hz, 1H, arom.), 7,44 (dd, <i>J</i> = 9,96; 1,98 Hz, 1H, arom.), 7,42 (d, <i>J</i> = 7,92 Hz, 1H, arom.), 7,32 (ddd, <i>J</i> = 2,16; 8,46; 8,70 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 167,54; 167,11; 163,03; 161,41; 135,35; 131,29; 130,31; 125,50; 119,97; 116,58.

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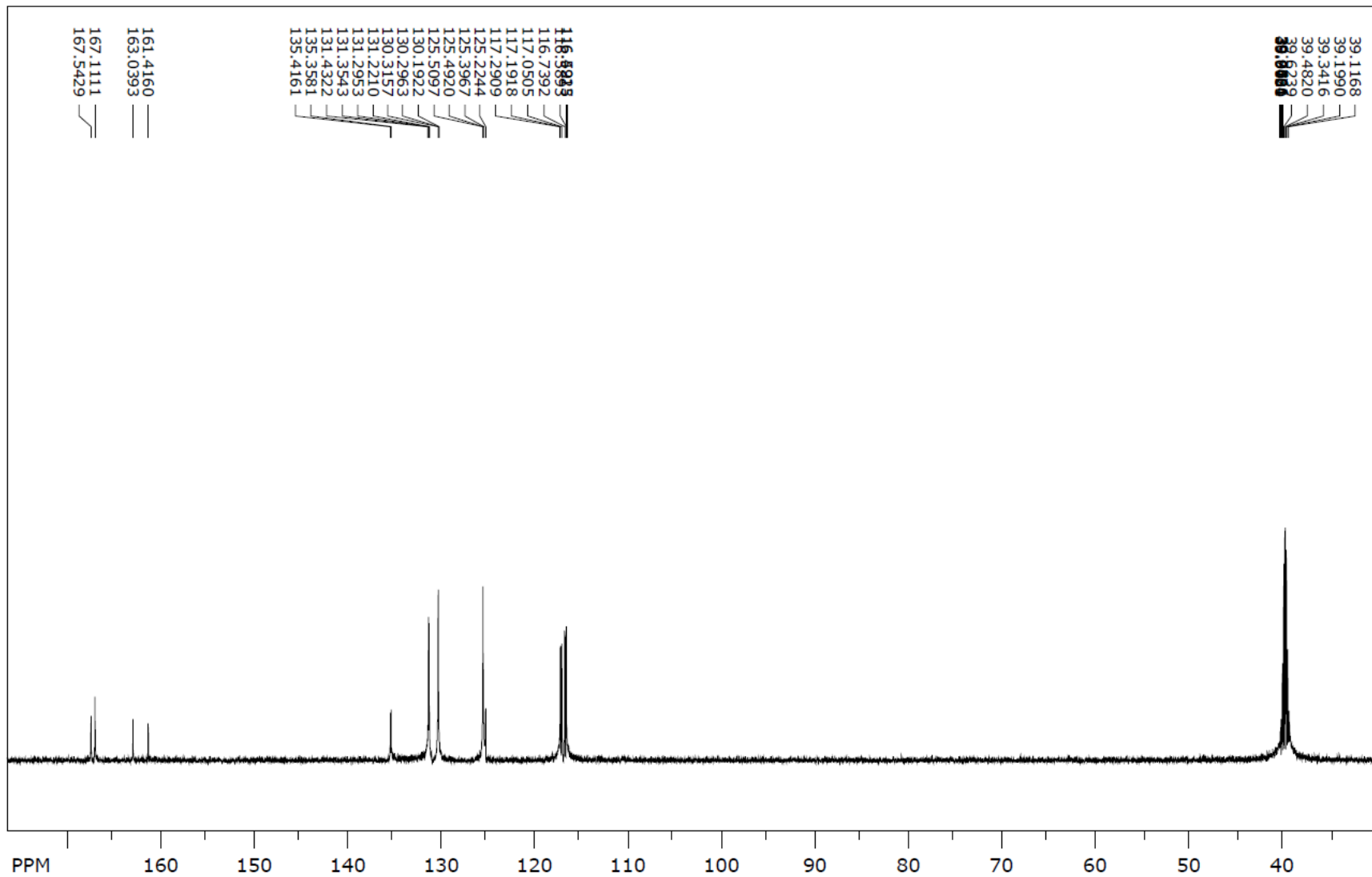
# Maseni spektr (9p)



**<sup>1</sup>H NMR spektr (9p)**



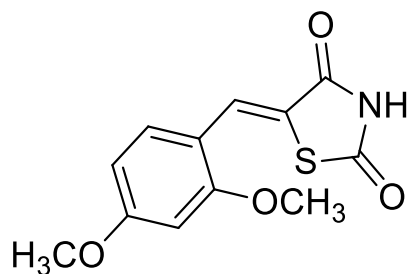
**<sup>13</sup>C NMR spektar (9p)**



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**5-(2,4-dimetoksibenziliden) tiazolidin-2,4-dion (9q)**

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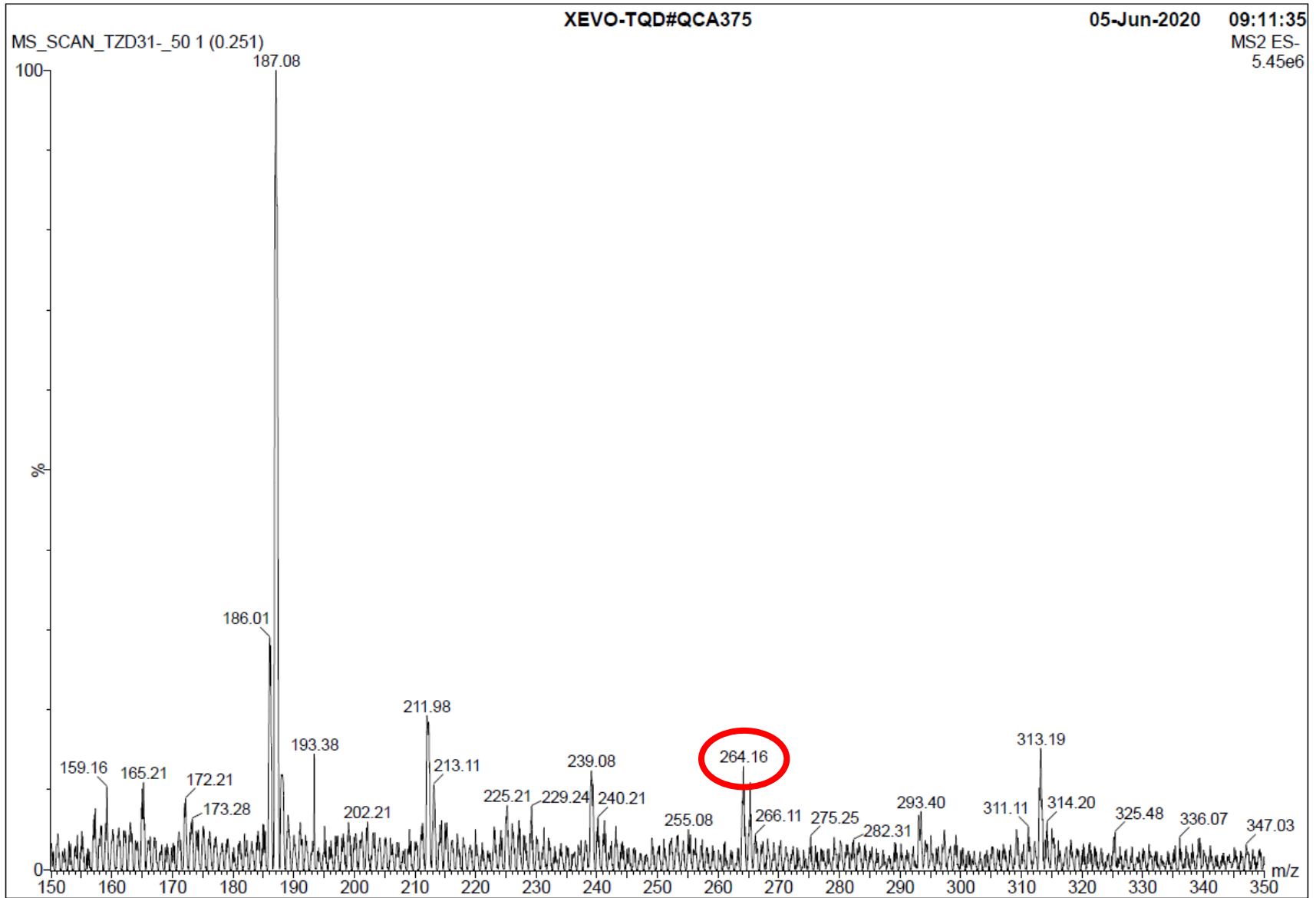


<b>Reaktanti</b>	2,4-dimetoksibenzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	265,29 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>11</sub> NO <sub>4</sub> S
<b>Temperatura tališta</b>	251 – 253 °C (lit. 254 – 255 °C, Ha i sur., 2012)
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,77
<b>LC/MS/MS m/z (M<sup>-</sup>)</b>	264,16
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,42 (s, 1H, NH), 7,90 (s, 1H, CH), 7,33 (d, <i>J</i> = 8,40 Hz, 1H, arom.), 6,69 (dd, <i>J</i> = 11,61; 2,40 Hz, 2H, arom.), 3,87 (s, 3H, OCH <sub>3</sub> ), 3,82 (s, 3H, OCH <sub>3</sub> ).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,04; 163,52; 160,28; 130,52; 126,92; 120,34; 114,73; 106,74; 99,09; 56,38; 56,09.

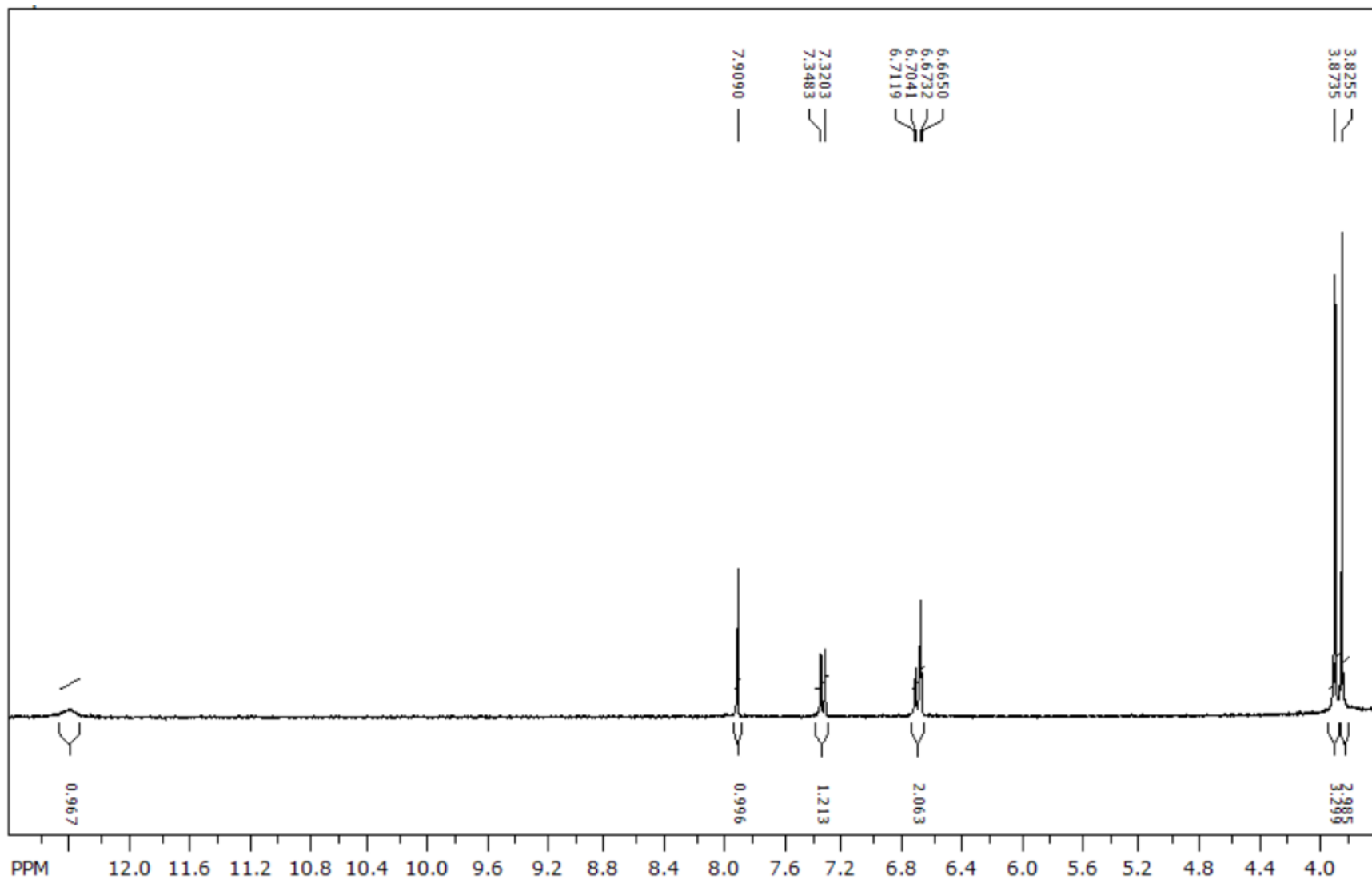
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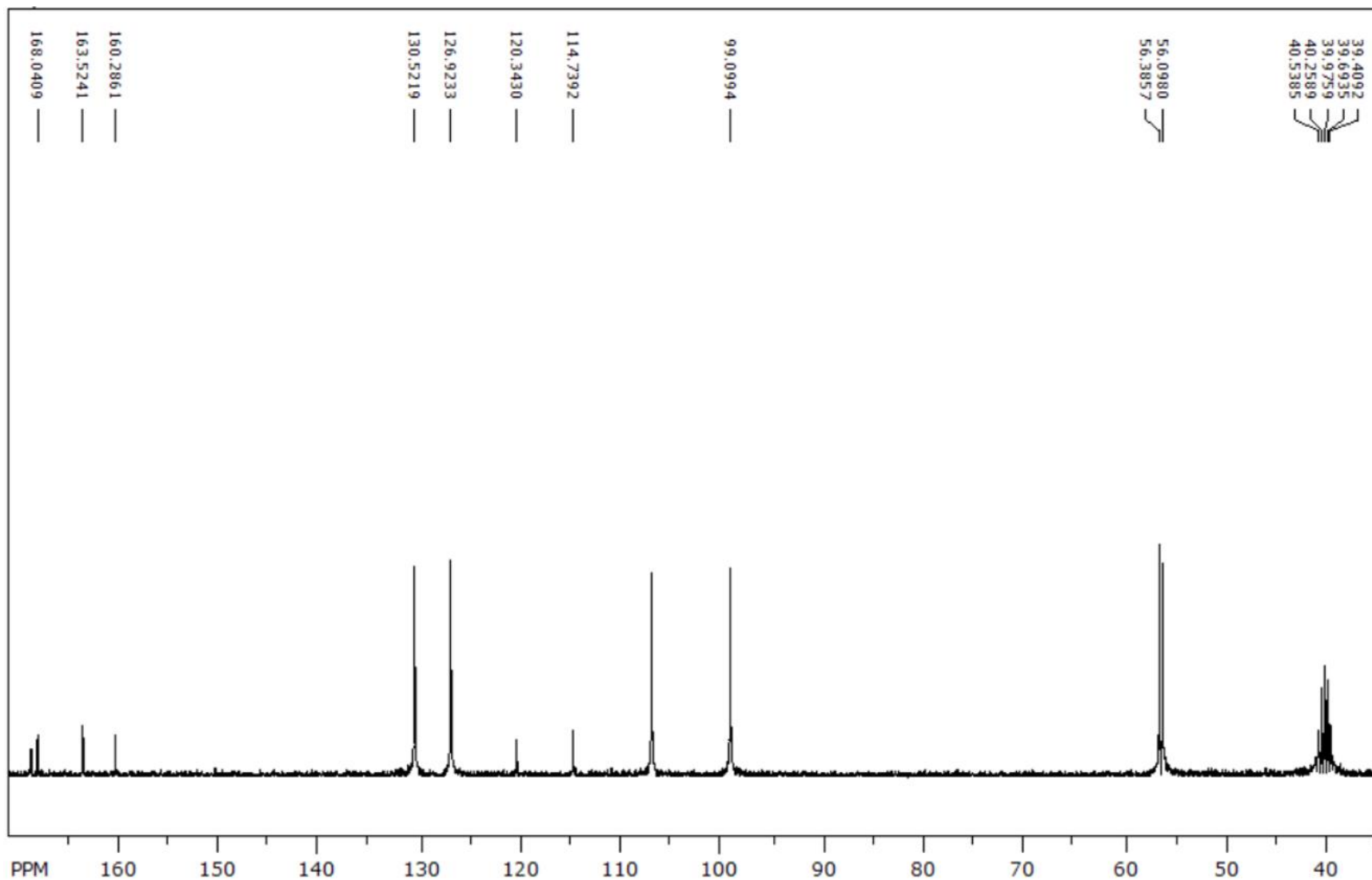
# Maseni spektr (9q)



<sup>1</sup>H NMR spektr (9q)



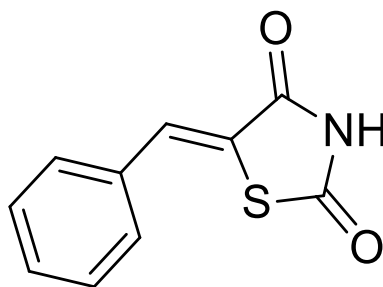
**<sup>13</sup>C NMR spektr (9q)**



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**5-benziliden tiazolidin-2,4-dion (9r)**

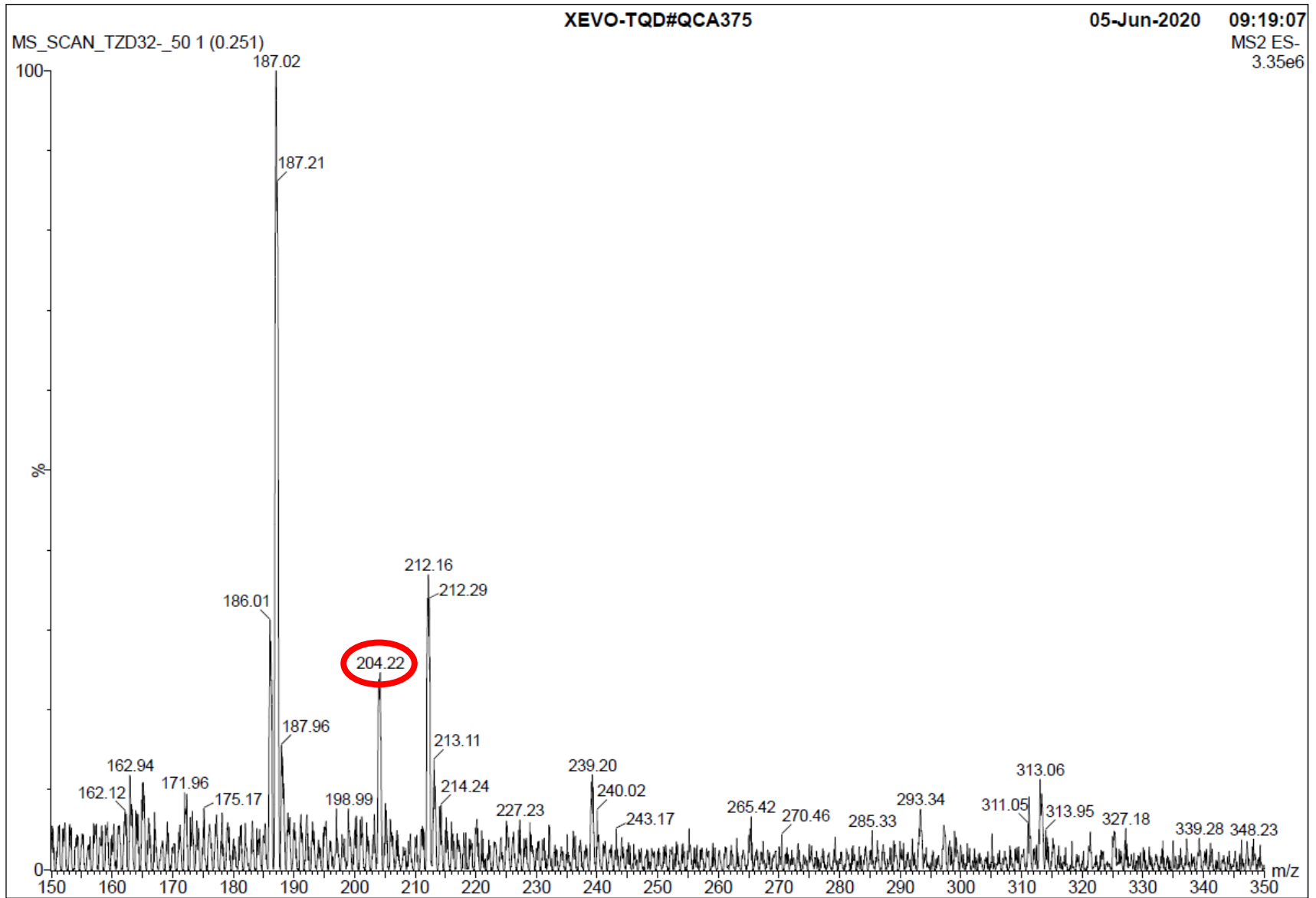
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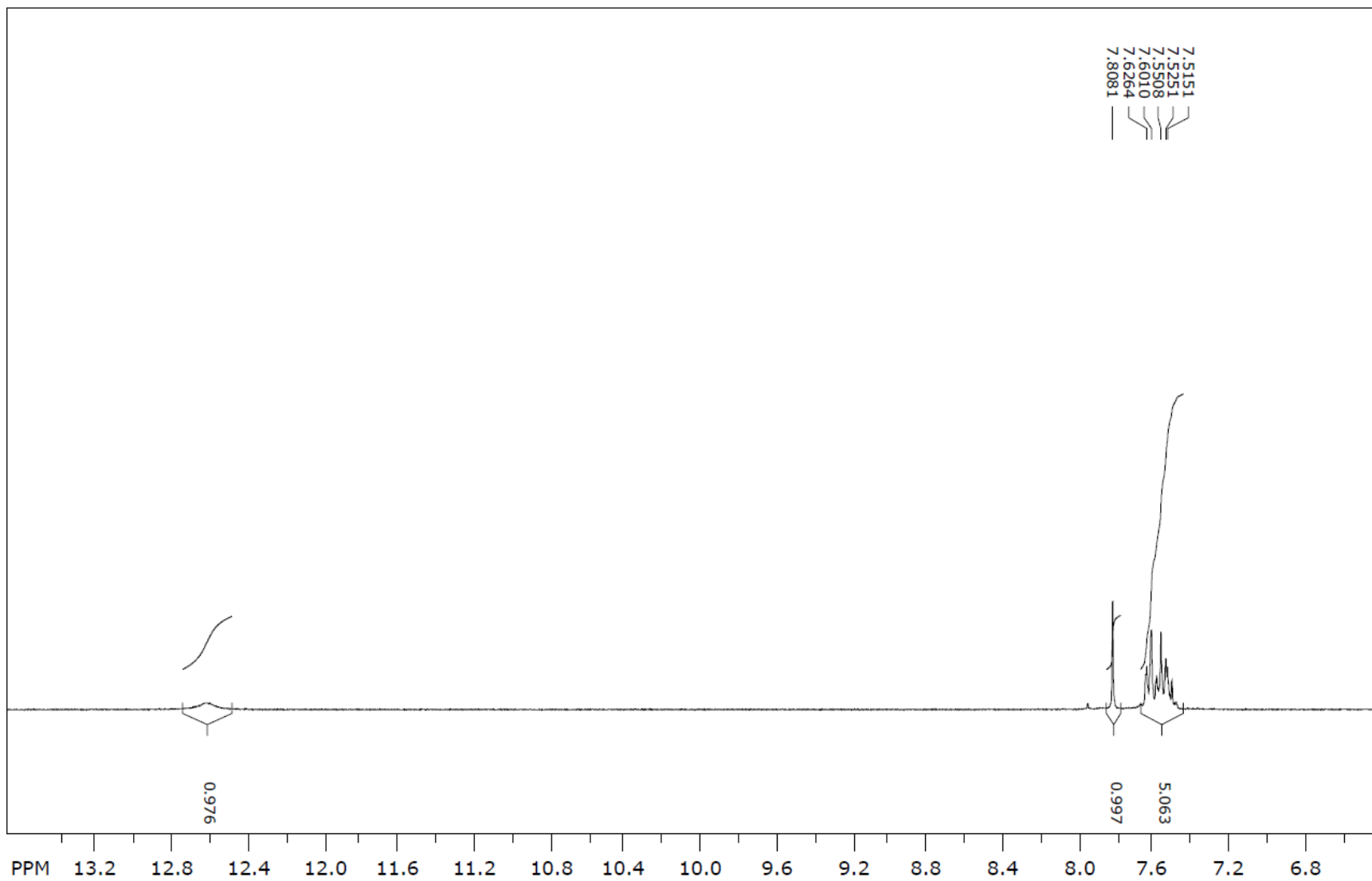
<b>Reaktanti</b>	Benzaldehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročišćavanja</b>	Nije pročišćavan
<b>Molekulska masa</b>	205,23 g/mol
<b>Molekulska formula</b>	C <sub>10</sub> H <sub>7</sub> NO <sub>2</sub> S
<b>Temperatura tališta</b>	251 – 254 °C (lit. 240 °C, Metwally i sur., 2011; 245 – 247 °C. Ynag i Yang, 2011)
<b>Boja kristala</b>	Bijela
<b>R<sub>f</sub></b>	0,79
<b>LC/MS/MS <i>m/z</i> (M-)</b>	204,22
<b><sup>1</sup>H NMR</b>	(300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,62 (s, 1H, NH), 7,80 (s, 1H, CH), 7,46 – 7,65 (m, 6H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 168,33; 167,77; 133,49; 132,24; 130,87; 130,46; 129,77; 124,01.

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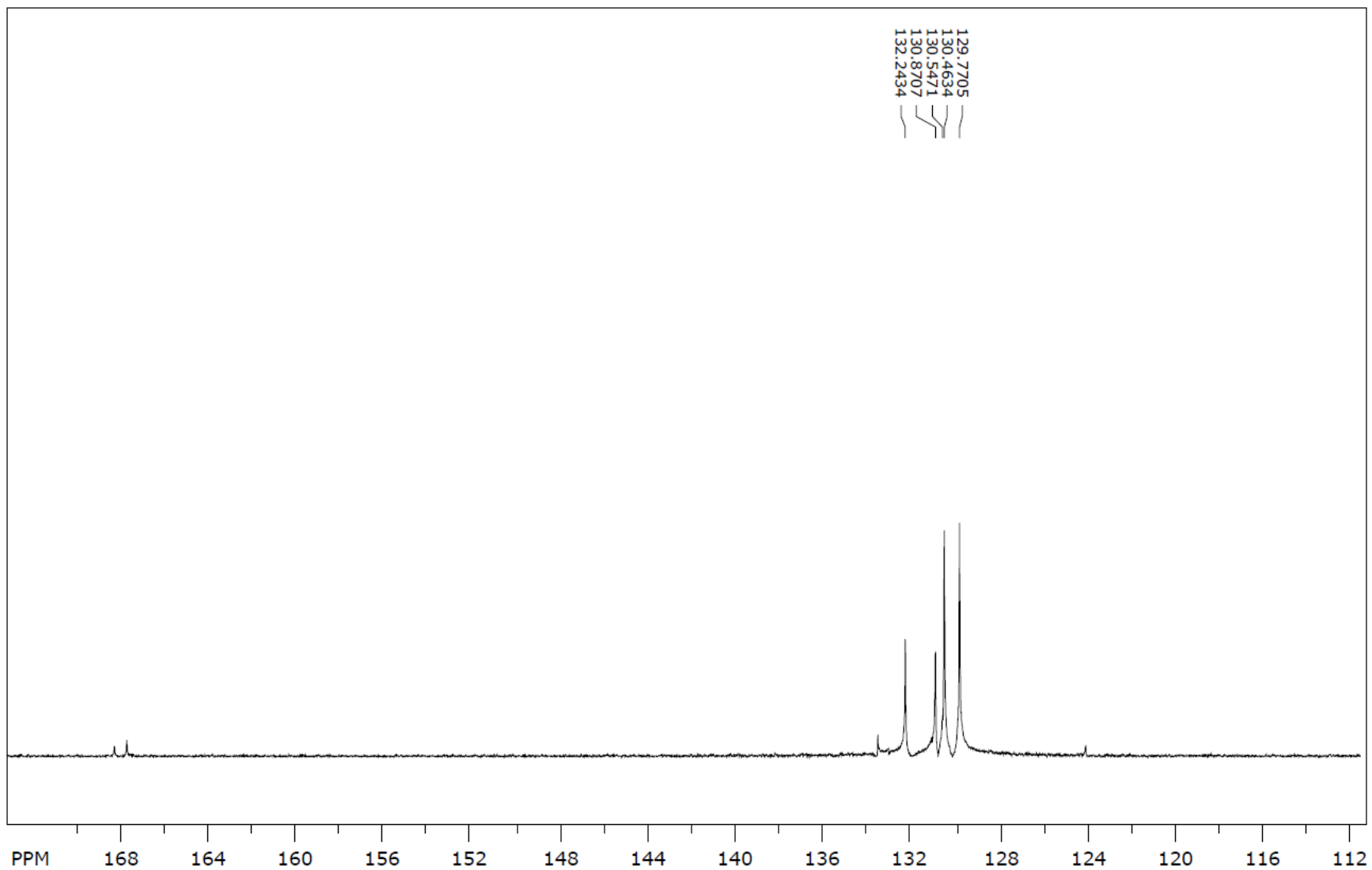
# Maseni spektar (9r)



**<sup>1</sup>H NMR spektr (9r)**



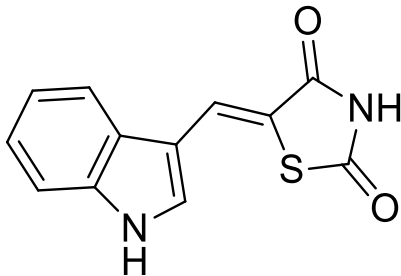
**<sup>13</sup>C NMR spektr (9r)**



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**5-((1H-indol-3-il)metilen) tiazolidin-2,4-dion (9s)**

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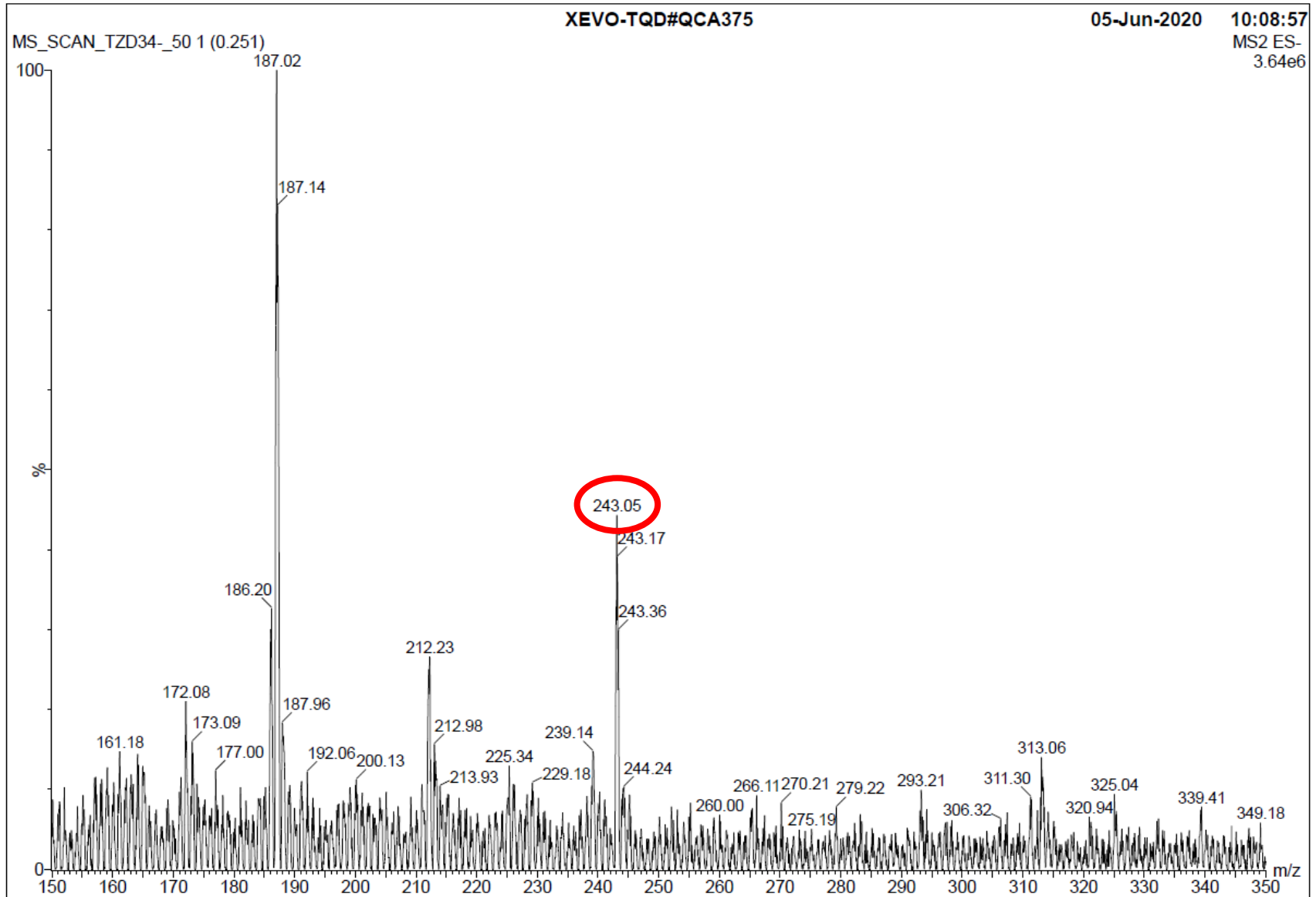
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<b>Reaktanti</b>	Indol-3-karboksialdehid (2 mmol) i tiazolidindion (2 mmol)
<b>Metoda pročiščavanja</b>	Nije pročiščavan
<b>Molekulska masa</b>	244,27 g/mol
<b>Molekulska formula</b>	C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> S
<b>Temperatura tališta</b>	> 300 °C
<b>Boja kristala</b>	Žuta
<b>R<sub>f</sub></b>	0,66
<b>LC/MS/MS m/z (M-)</b>	243,05
<b><sup>1</sup>H NMR</b>	(600 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 12,31 (s, 1H, NH), 12,12 (s, 1H, NH), 7,88 (d, <i>J</i> = 7,86 Hz, 1H, arom.), 7,73 (d, <i>J</i> = 2,76 Hz, 1H, arom.), 7,51 (d, <i>J</i> = 8,04 Hz, 1H, arom.), 7,25 (t, <i>J</i> = 7,44 Hz, 1H, arom.), 7,19 (t, <i>J</i> = 7,38 Hz, 1H, arom.).
<b><sup>13</sup>C NMR</b>	(150 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ 167,23; 136,16; 128,58; 126,75; 124,41; 123,02; 121,00; 118,29; 116,20; 112,36; 110,39.

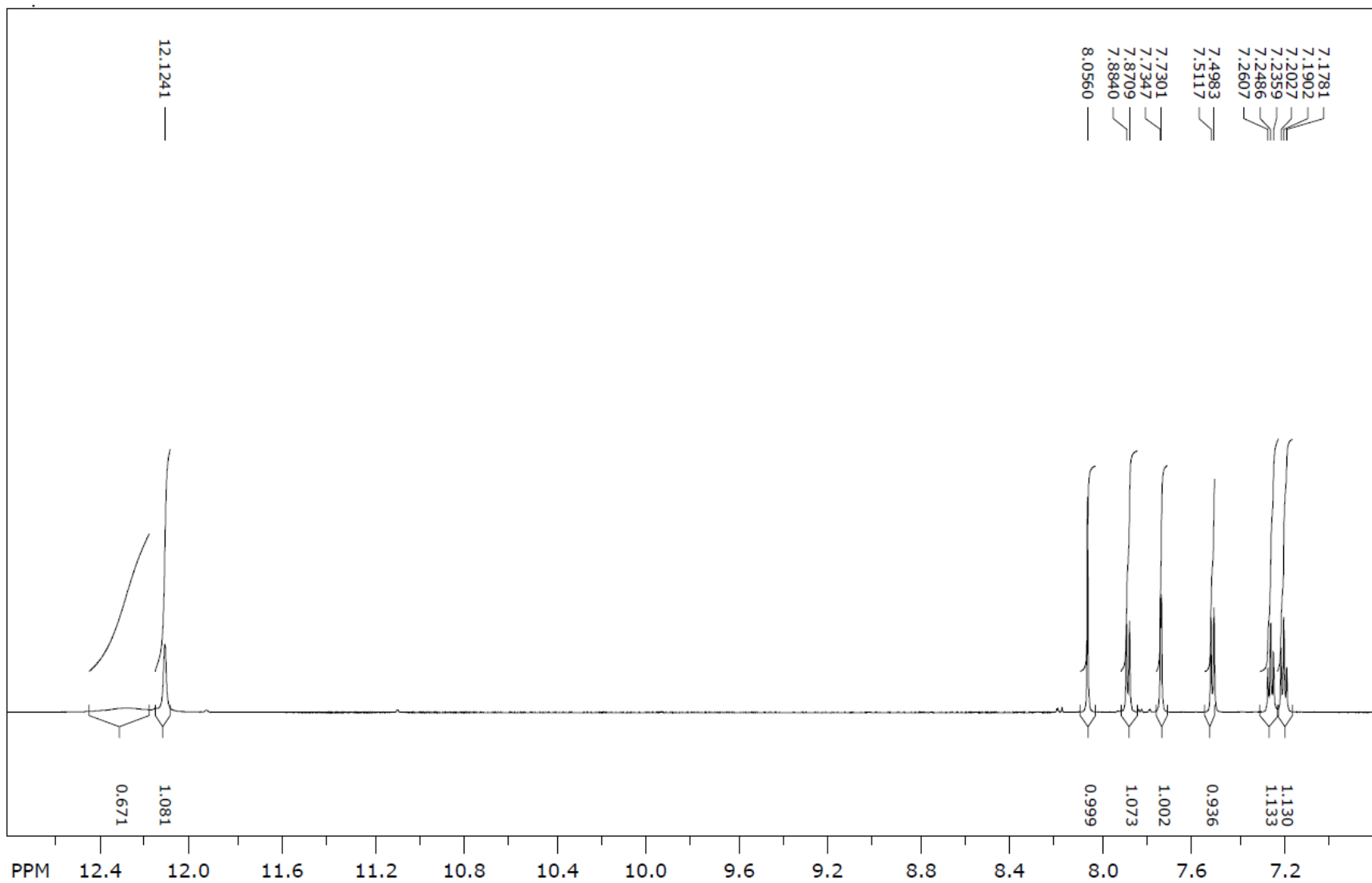
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# Maseni spektr (9s)



**<sup>1</sup>H NMR spektr (9s)**



# <sup>13</sup>C NMR spektr (9s)

