

## Dicamba and Acidic Herbicides LC-MS/MS in Agricultural Field Samples

**Column:** Kinetex® F5 2.6µm 100 Å, LC Column 100 x 3.0 mm, Ea

**Dimensions:** 100 x 3 mm ID

**Order No:** 00D-4723-Y0

**Elution Type:** Gradient

**Eluent A:** water

**Eluent B:** 0.2% formic acid in methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	1	60	40
	3	4	48	52
	4	12	15	85
	5	13.5	10	90
	6	15.5	10	90
	7	15.6	98	2

**Flow Rate:** 0.5 mL/min

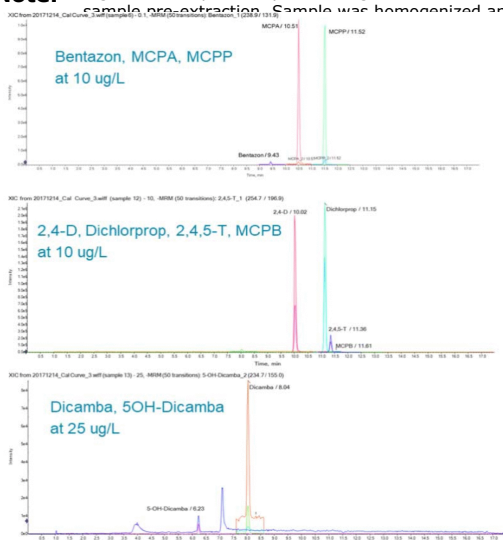
**Col. Temp.:** 30 °C

**Detection:** LC/MS/MS @ (ambient)

**Analyst Note:** 5 g of soil sample or soybean foliage were collected from impacted and non-impacted agricultural field sites. Internal standard was added to the sample pre-extraction. Sample was homogenized and extracted with formic acid fortified acetonitrile. Sample was shaken for 15 minutes then



Products used in this application:



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### ANALYTES:

<b>1</b>	13C6-DCSA	<b>41</b>	Dichlorprop_3
<b>2</b>	2,4,5-T_1	<b>42</b>	Dichlorprop_4
<b>3</b>	2,4,5-T_2	<b>43</b>	MCPA_1
<b>4</b>	2,4,5-T_3	<b>44</b>	MCPA_2
<b>5</b>	2,4,5-TP_1	<b>45</b>	MCPA_3
<b>6</b>	2,4,5-TP_2	<b>46</b>	MCPB_1
<b>7</b>	2,4-D_1	<b>47</b>	MCPB_2
<b>8</b>	2,4-D_2	<b>48</b>	MCPP_1
<b>9</b>	2,4-D_3	<b>49</b>	MCPP_2
<b>10</b>	2,4-D_4	<b>50</b>	MCPP_3
<b>11</b>	2,4-DB_1		
<b>12</b>	2,4-DB_2		
<b>13</b>	2,4-DB_3		
<b>14</b>	2,4-DB_4		
<b>15</b>	5-OH-Dicamba_1		
<b>16</b>	5-OH-Dicamba_2		
<b>17</b>	5-OH-Dicamba_3		
<b>18</b>	5-OH-Dicamba_4		
<b>19</b>	Acifluorfen_1		
<b>20</b>	Acifluorfen_2		
<b>21</b>	Acifluorfen_3		
<b>22</b>	Acifluorfen_4		
<b>23</b>	Bentazon_1		
<b>24</b>	Bentazon_3		
<b>25</b>	Bentazon_4		
<b>26</b>	d3-Dicamba_1		
<b>27</b>	d3-Dicamba_2		
<b>28</b>	DCGA_1		
<b>29</b>	DCGA_2		
<b>30</b>	DCGA_3		
<b>31</b>	DCGA_4		
<b>32</b>	DCSA_1		
<b>33</b>	DCSA_2		
<b>34</b>	DCSA_3		
<b>35</b>	DCSA_4		
<b>36</b>	Dicamba_1		
<b>37</b>	Dicamba_2		
<b>38</b>	Dicamba_3		
<b>39</b>	Dichlorprop_1		
<b>40</b>	Dichlorprop_2		

