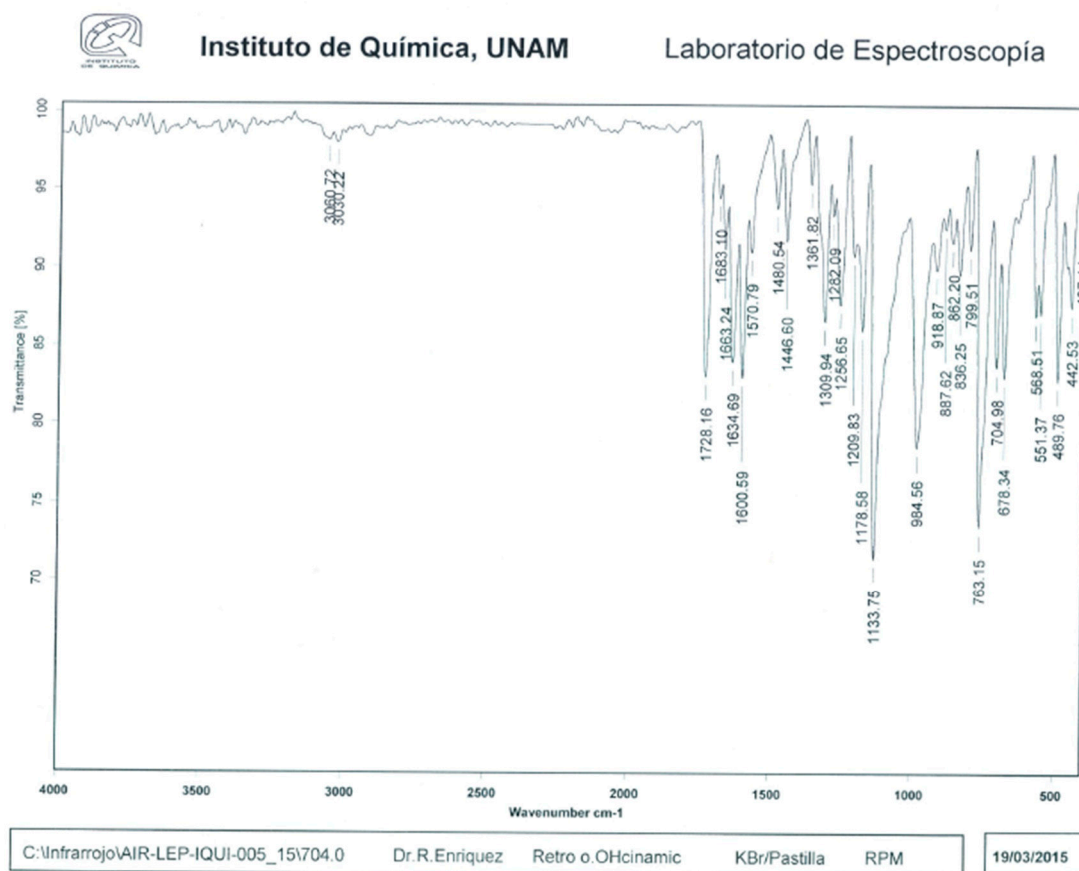


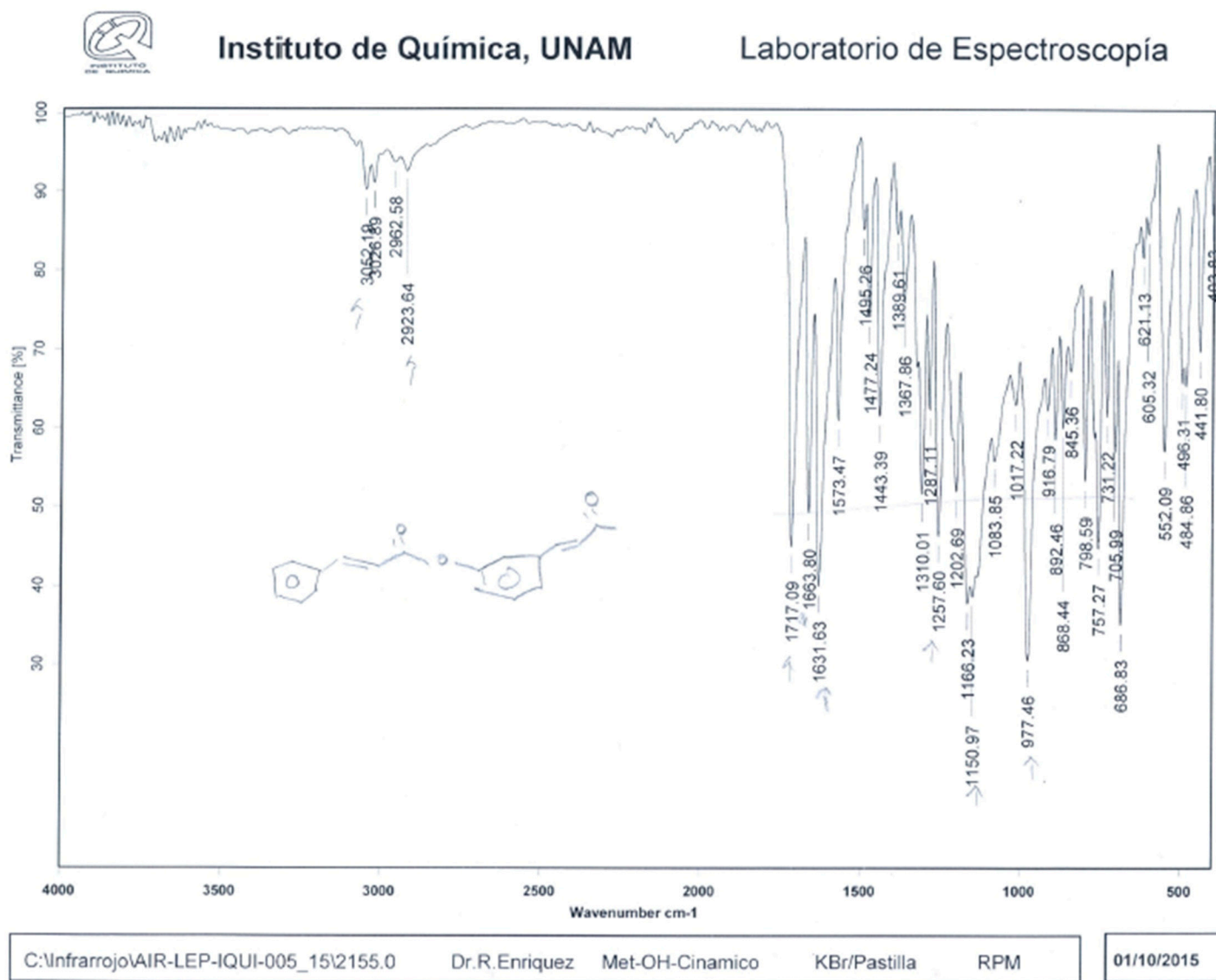
Supplementary Materials: *Retro-Curcuminoids* as Mimics of Dehydrozingerone and Curcumin: Synthesis, NMR, X-ray, and Cytotoxic Activity

Marco A. Obregón-Mendoza, María Mirian Estévez-Carmona, Simón Hernández-Ortega, Manuel Soriano-García, María Teresa Ramírez-Apan, Laura Orea, Hugo Pilotzi, Dino Gnecco, Julia Cassani and Raúl G. Enríquez

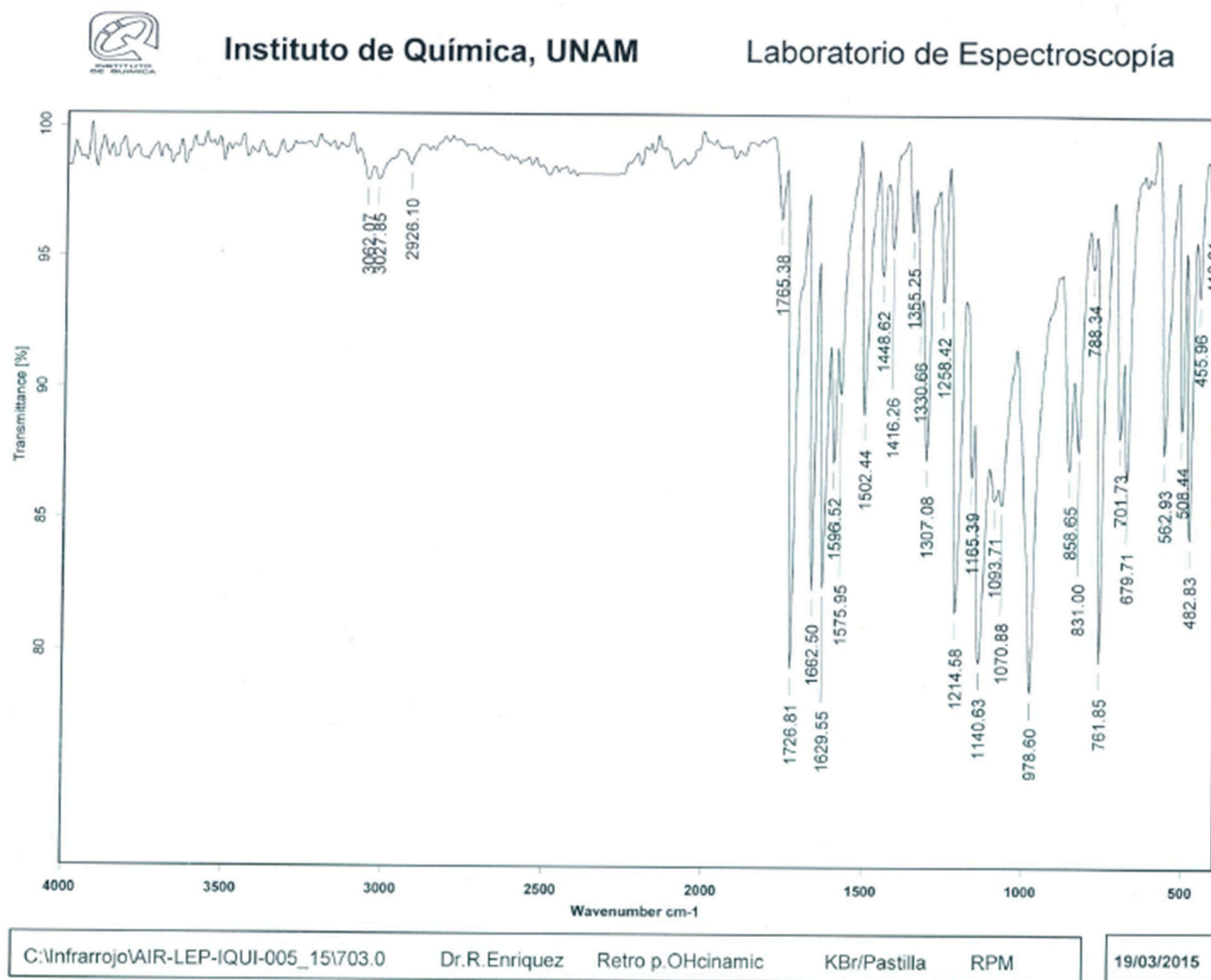
IR *Retro-Curcuminoid* 7



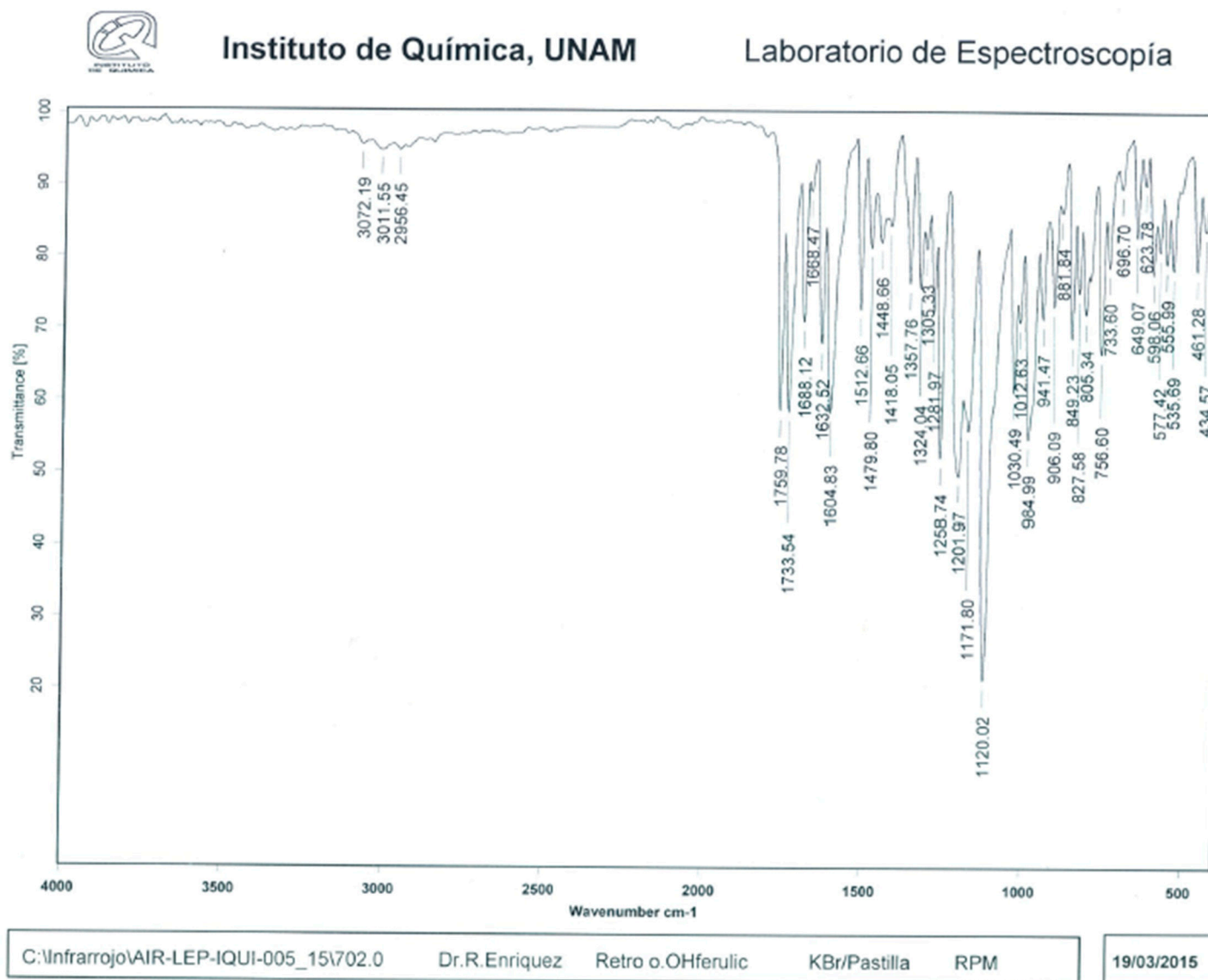
IR Retro-Curcuminoid 8



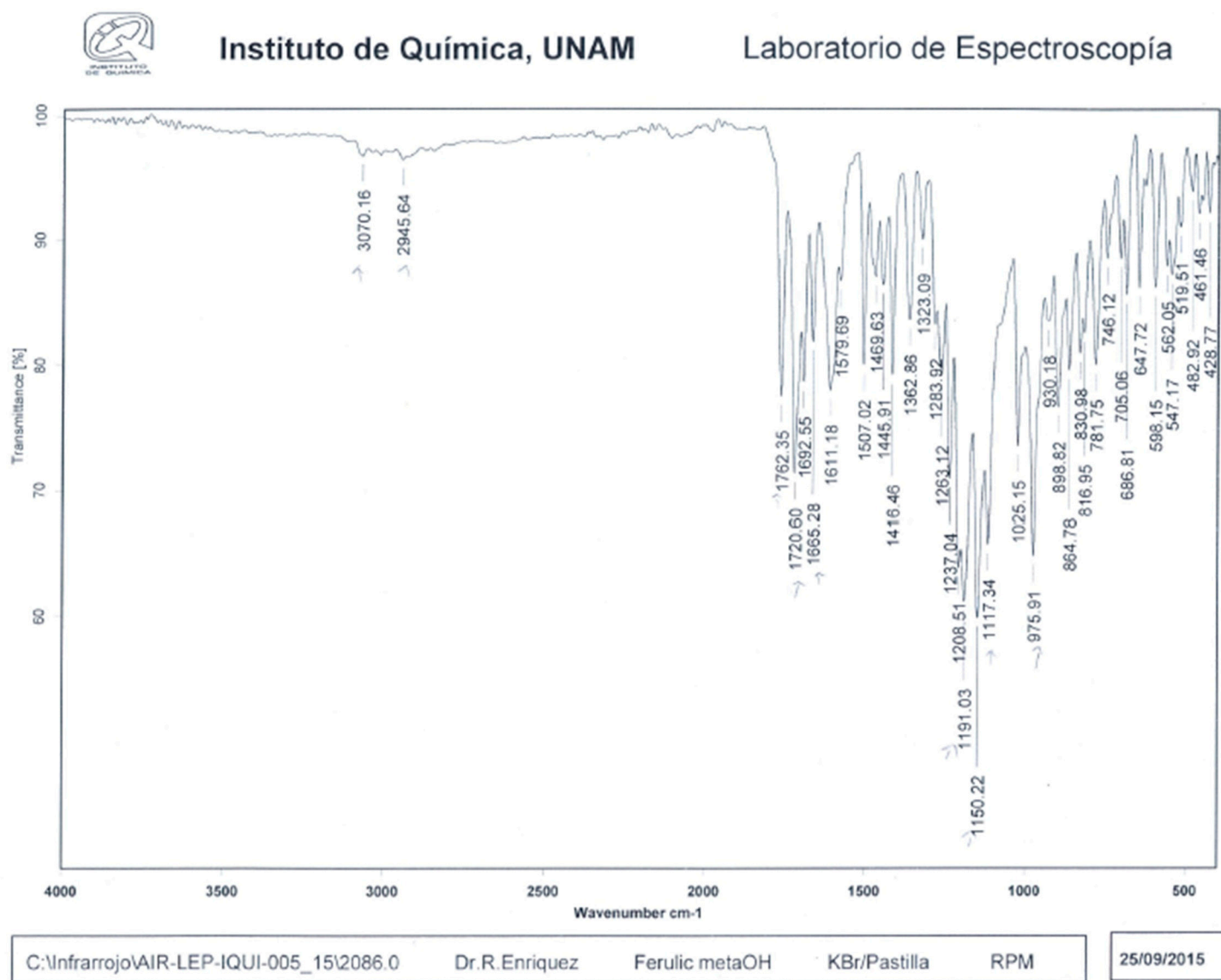
IR Retro-Curcuminoid 9



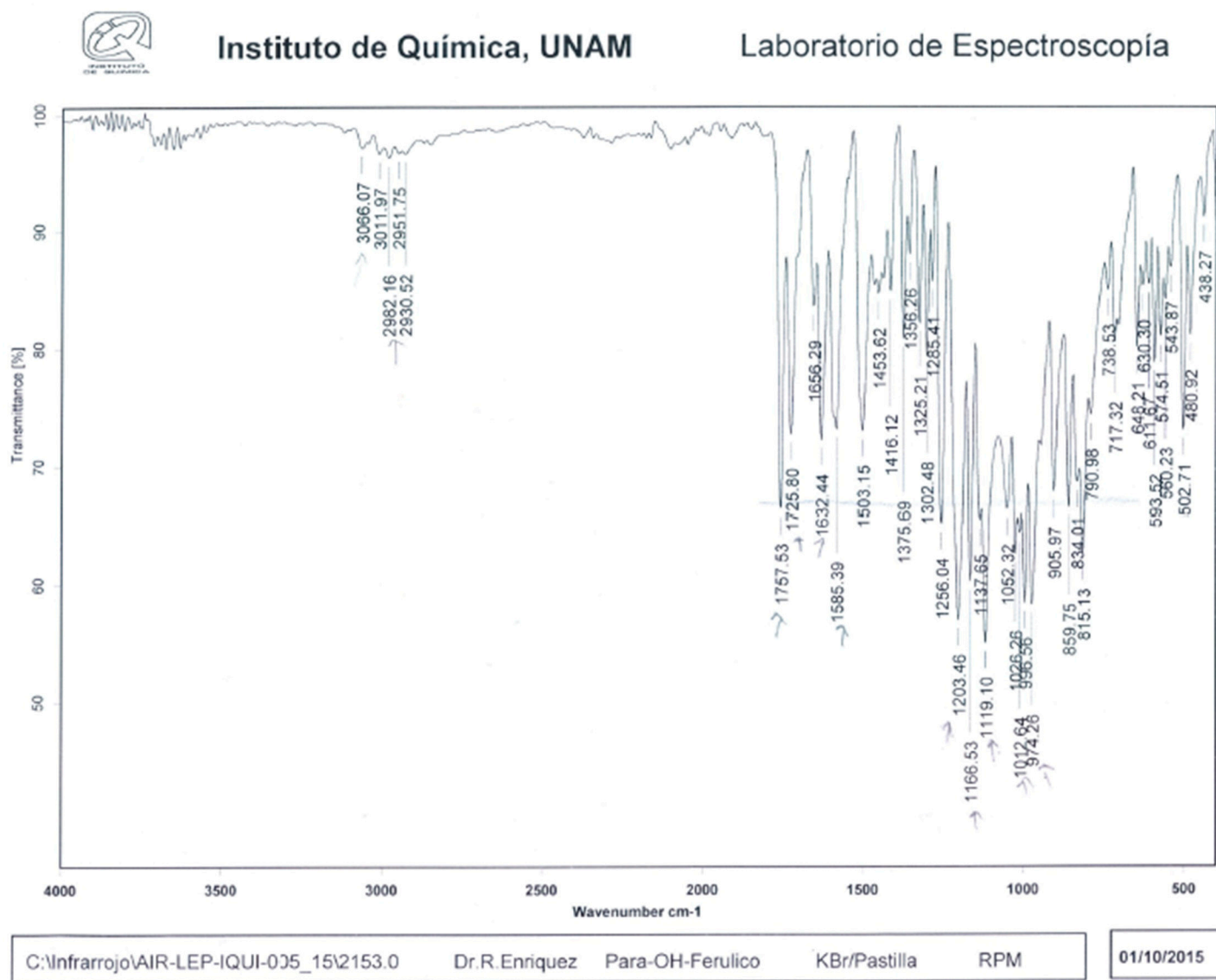
IR Retro-Curcuminoid 10



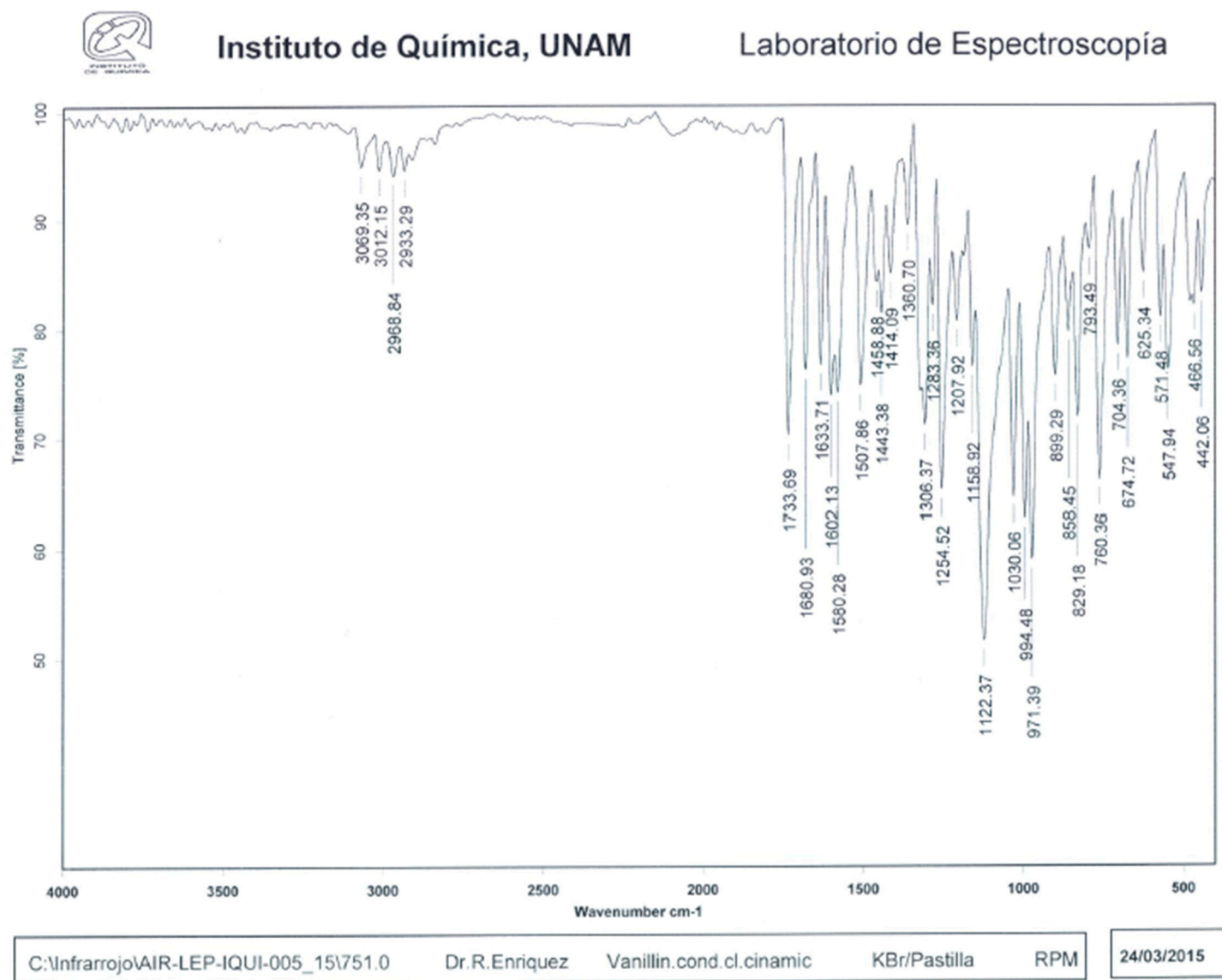
IR Retro-Curcuminoid 11



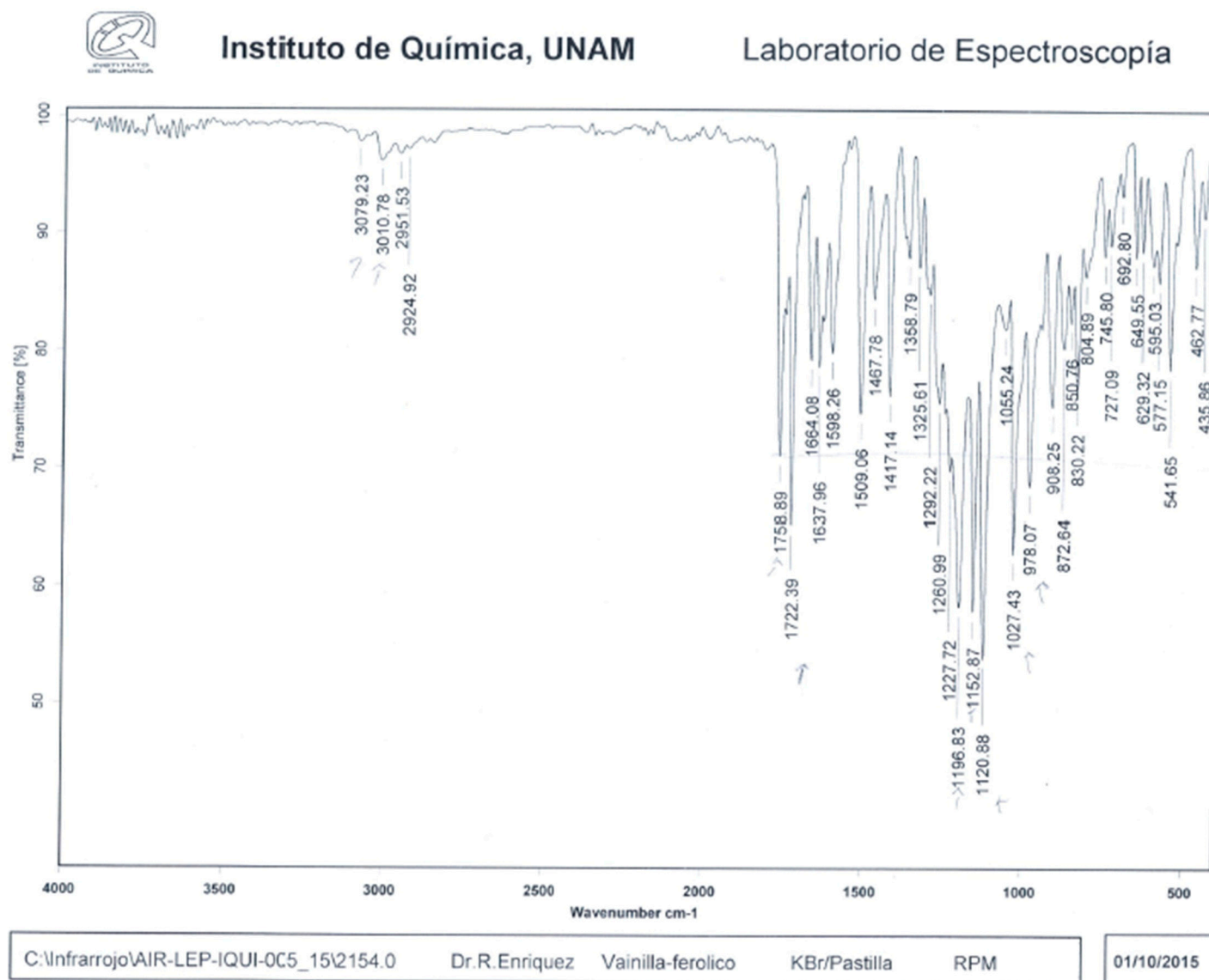
IR Retro-Curcuminoid 12



IR Retro-Curcuminoid 13



IR Retro-Curcuminoid 14

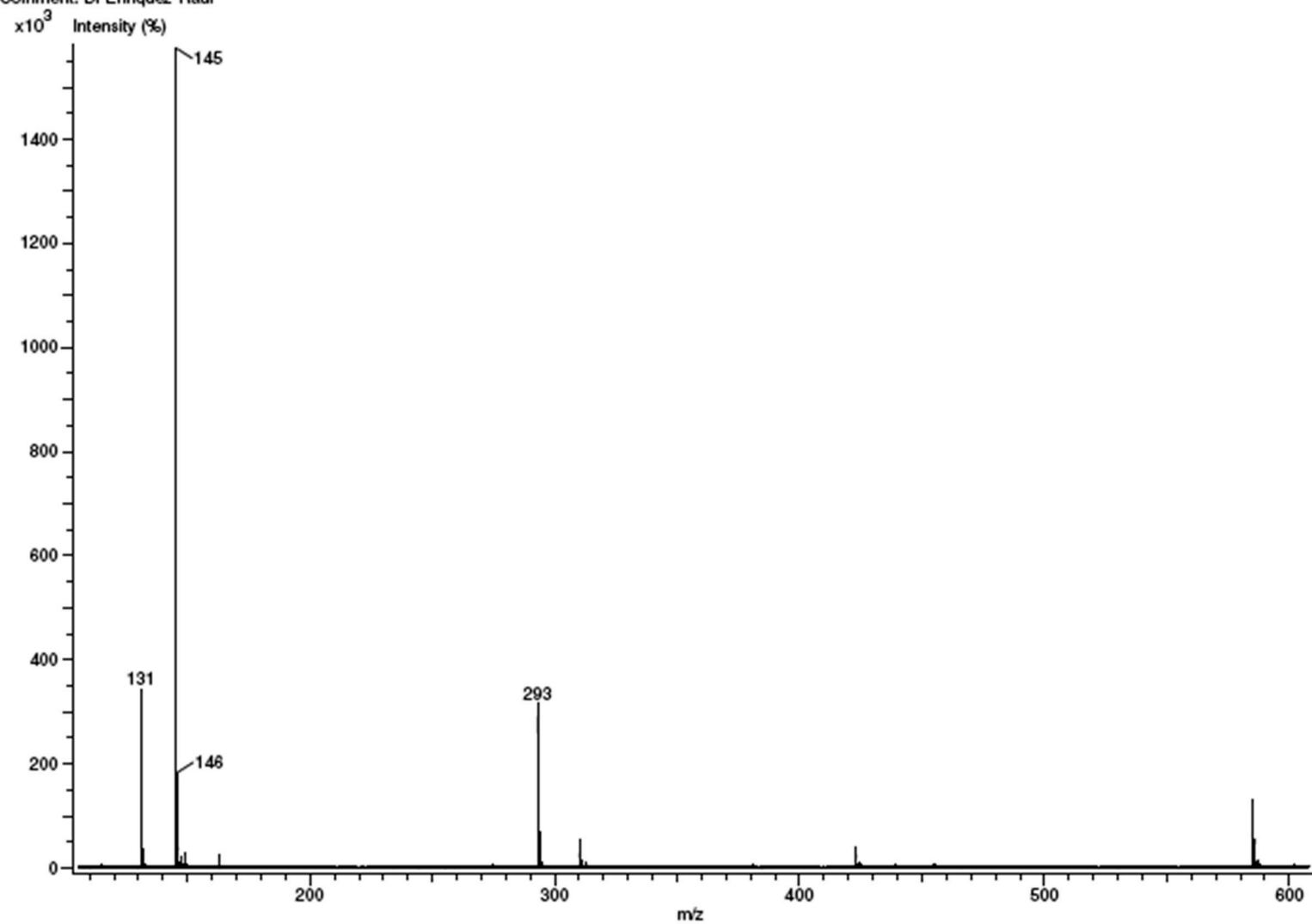


MS Retro-Curcuminoid 7

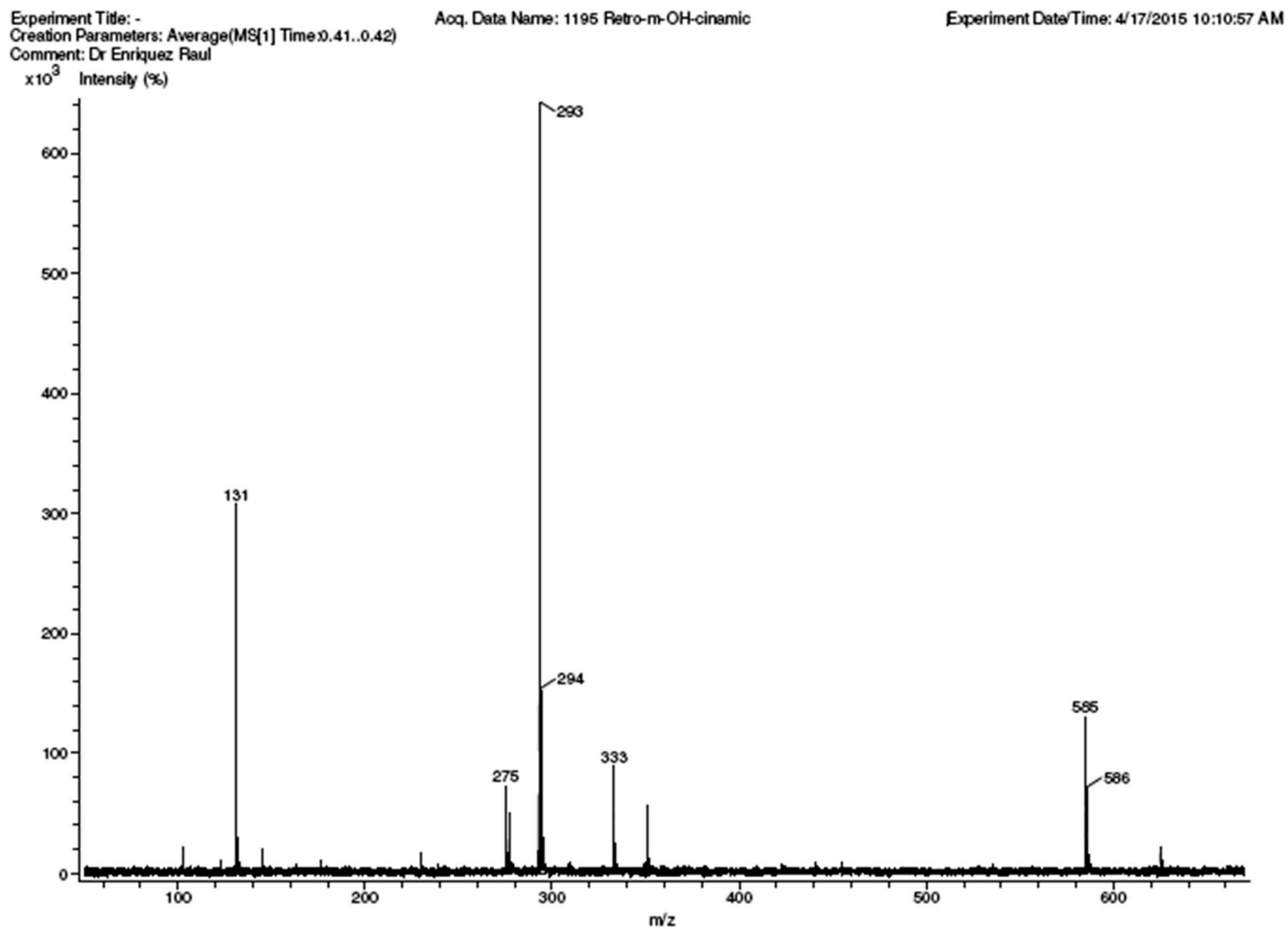
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Comment: Dr Enriquez Raul

Acq. Data Name: 939 Retro-o-OHcinamic

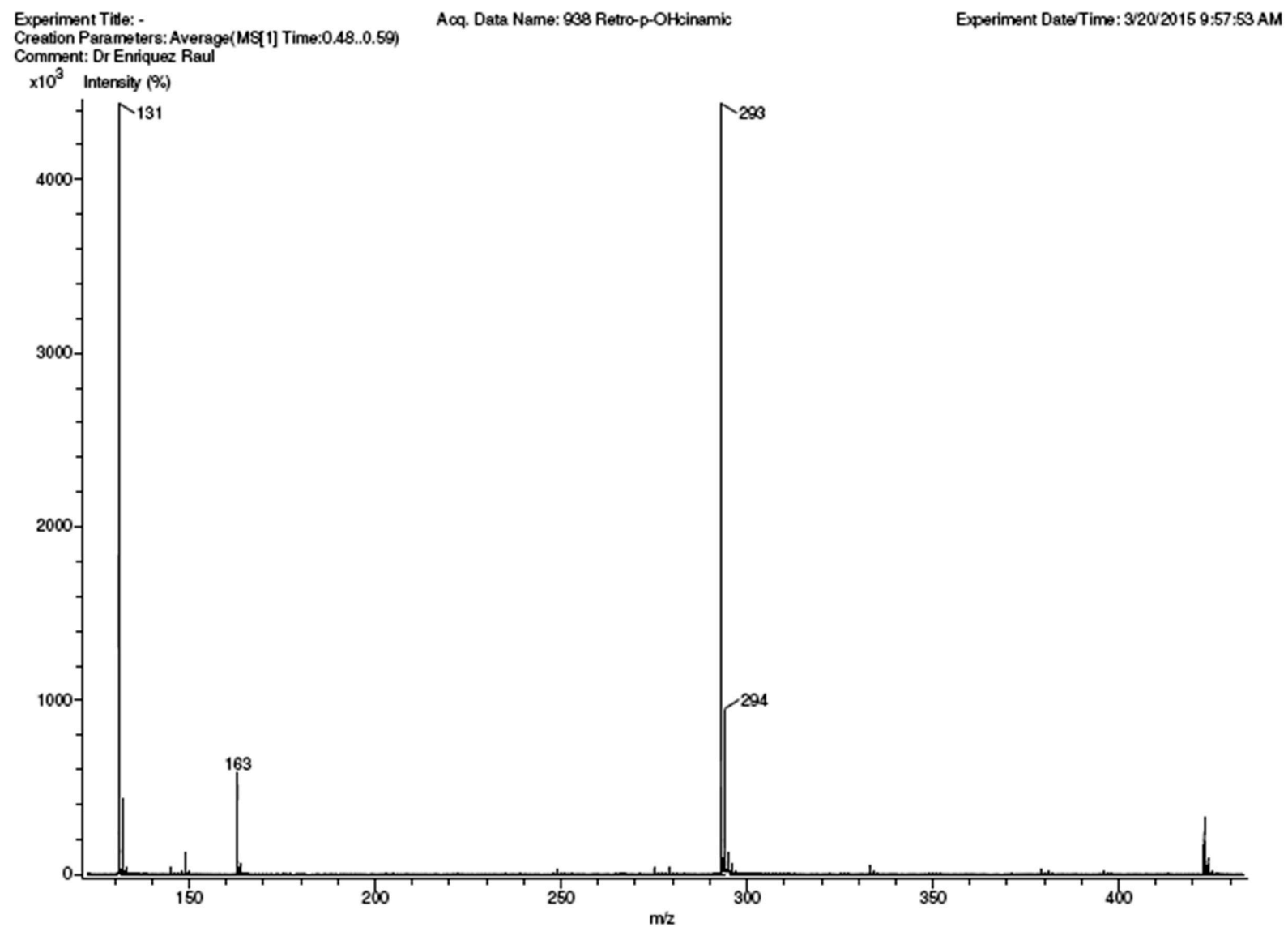
Experiment Date/Time: 3/20/2015 10:01:21 AM



MS Retro-Curcuminoid 8



MS Retro-Curcuminoid 9

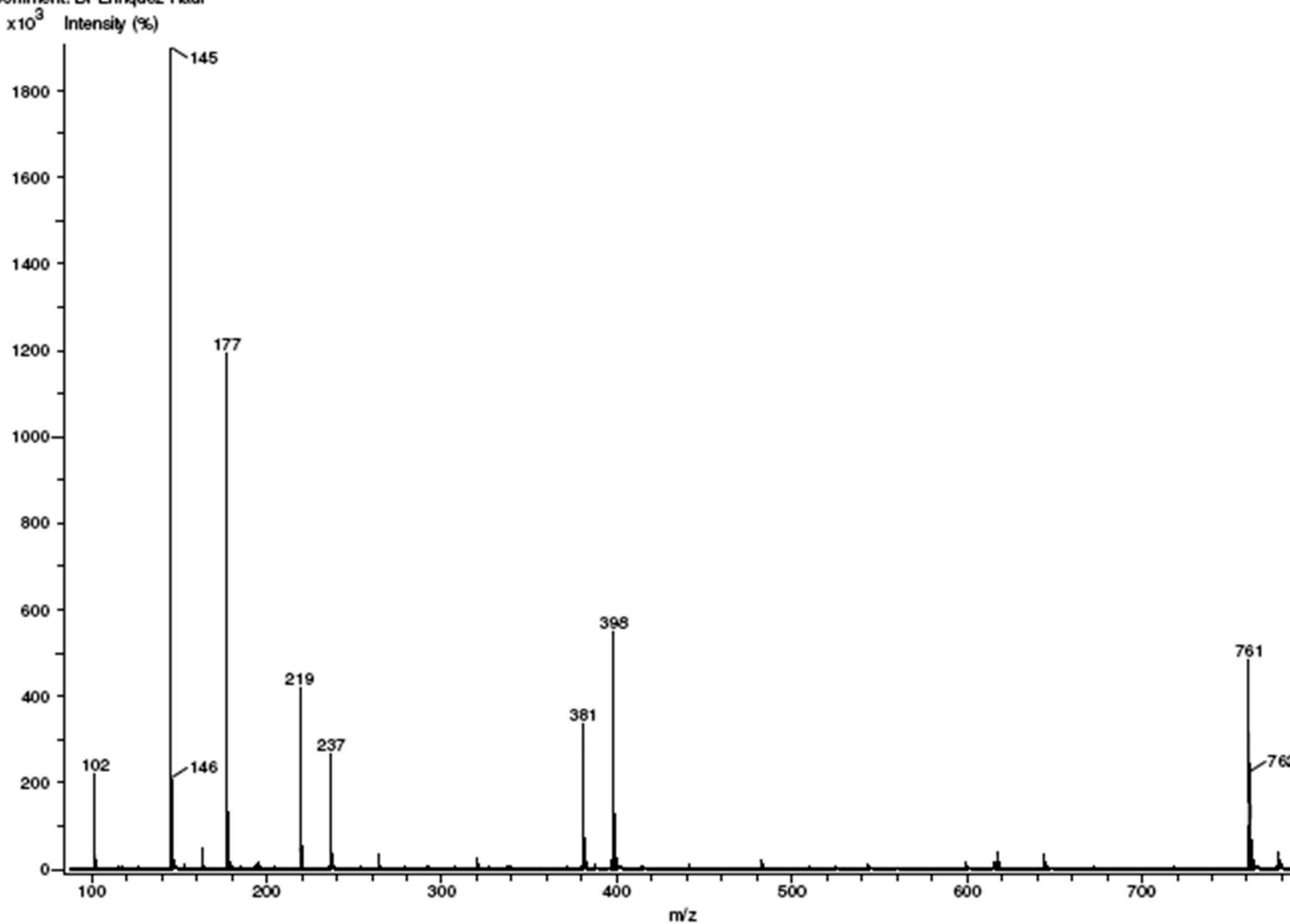


MS Retro-Curcuminoid 10

Experiment Title: -
Creation Parameters: Average(MS[1] Time:0.58..0.65)
Comment: Dr Enriquez Raul
x10³ Intensity (%)

Acq. Data Name: 937 Retro-O-OHferulic

Experiment Date/Time: 3/20/2015 9:54:15 AM

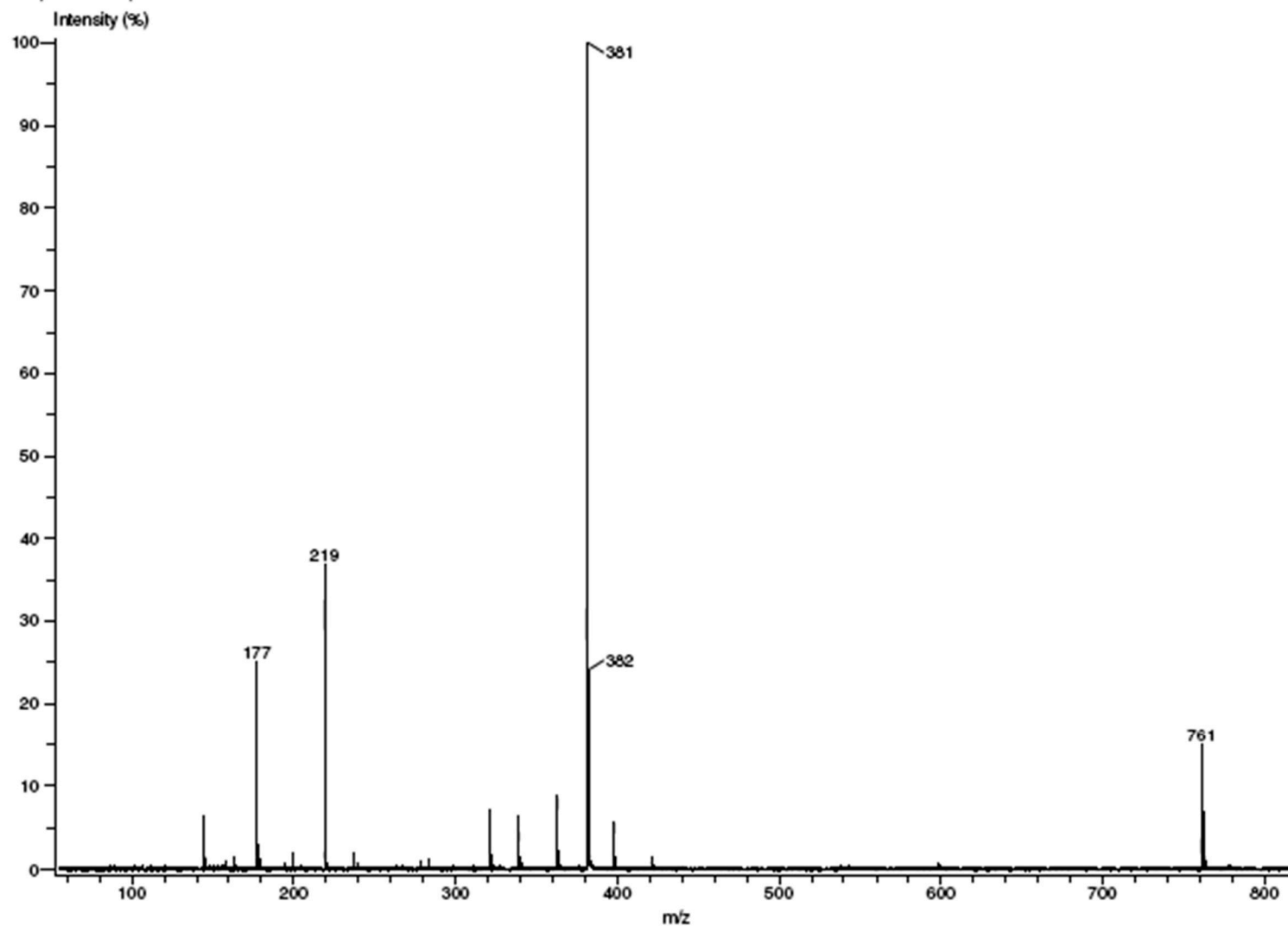


MS Retro-Curcuminoid 11

Experiment Date/Time: 9/22/2015 11:10:56 AM
Creation Parameters: Average(MS[1] Time:0.52..0.53)
Dr Enriquez Raul Operador: Carmen Garcia/Javier Perez

Acq. Data Name: 2874 Ferulic.methOH
MS Tune Method Name: DART+

Instrument Configuration: JMS-T100LC

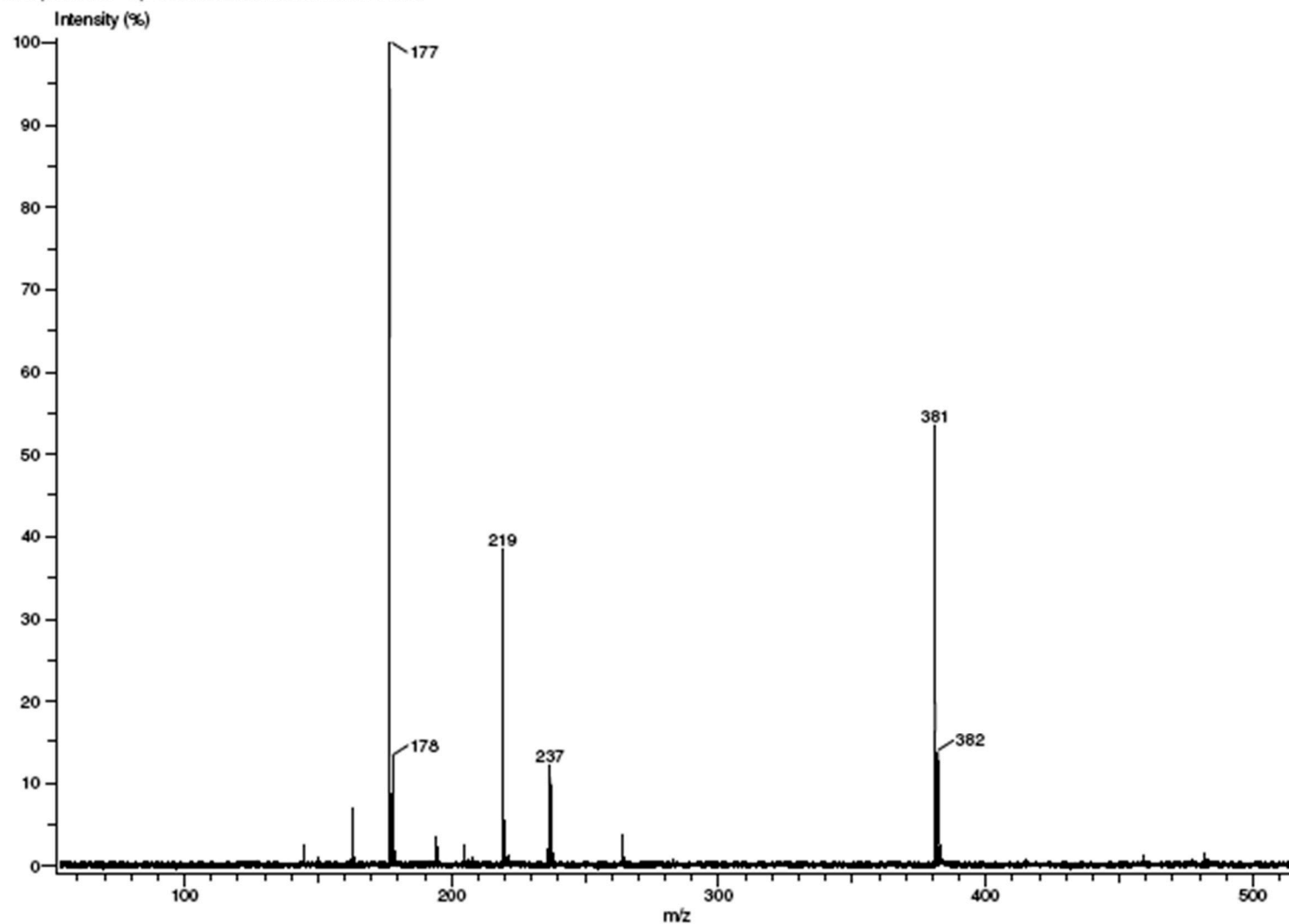


MS Retro-Curcuminoid 12

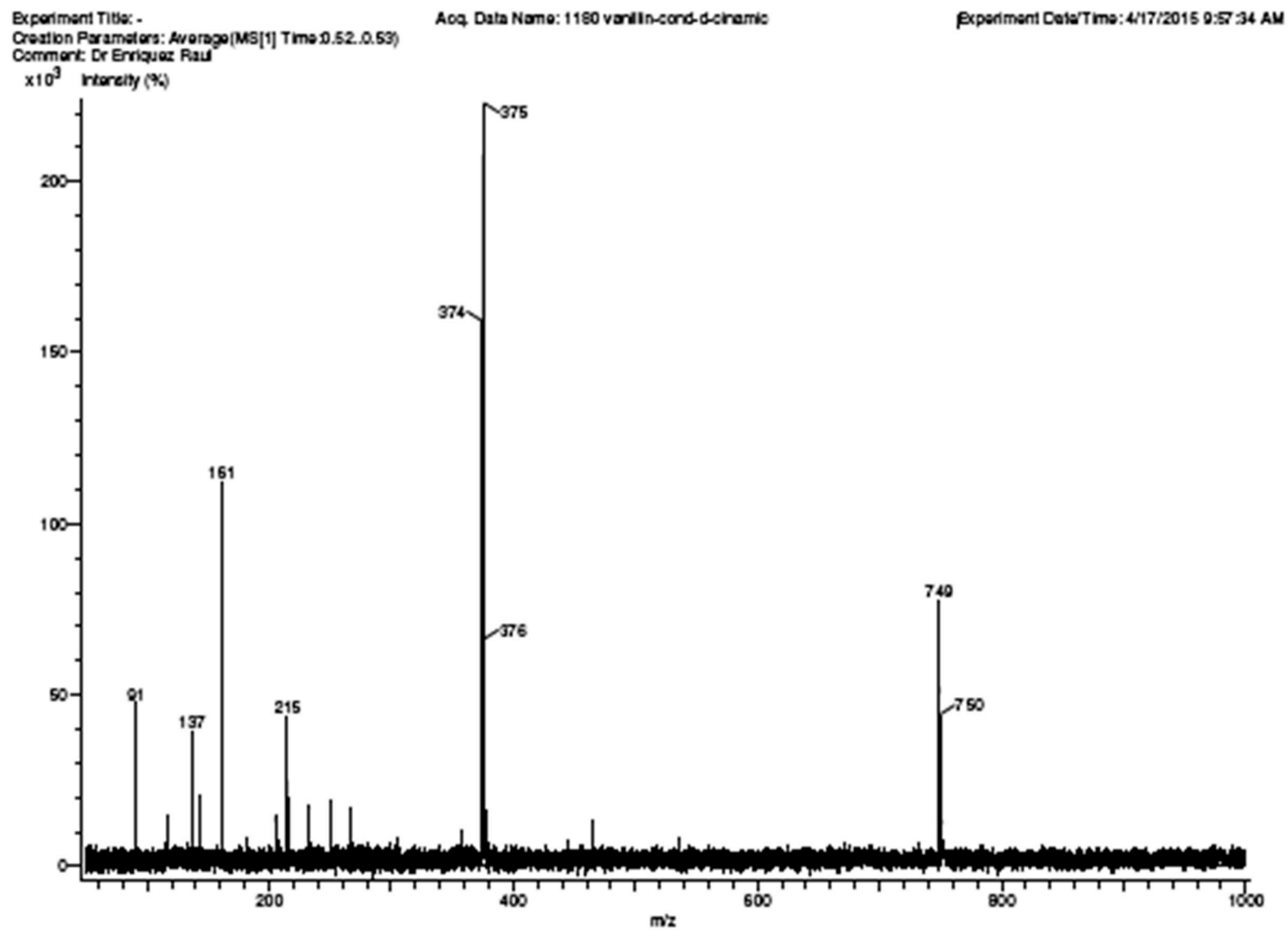
Experiment Date/Time: 9/24/2015 11:23:12 AM
Creation Parameters: Average(MS[1] Time:0.33..0.36)
Dr Enriquez Raul Operator: Carmen Garcia/Javier Perez

Acq. Data Name: 2946 Para-OH-Felurico
MS Tune Method Name: DART+

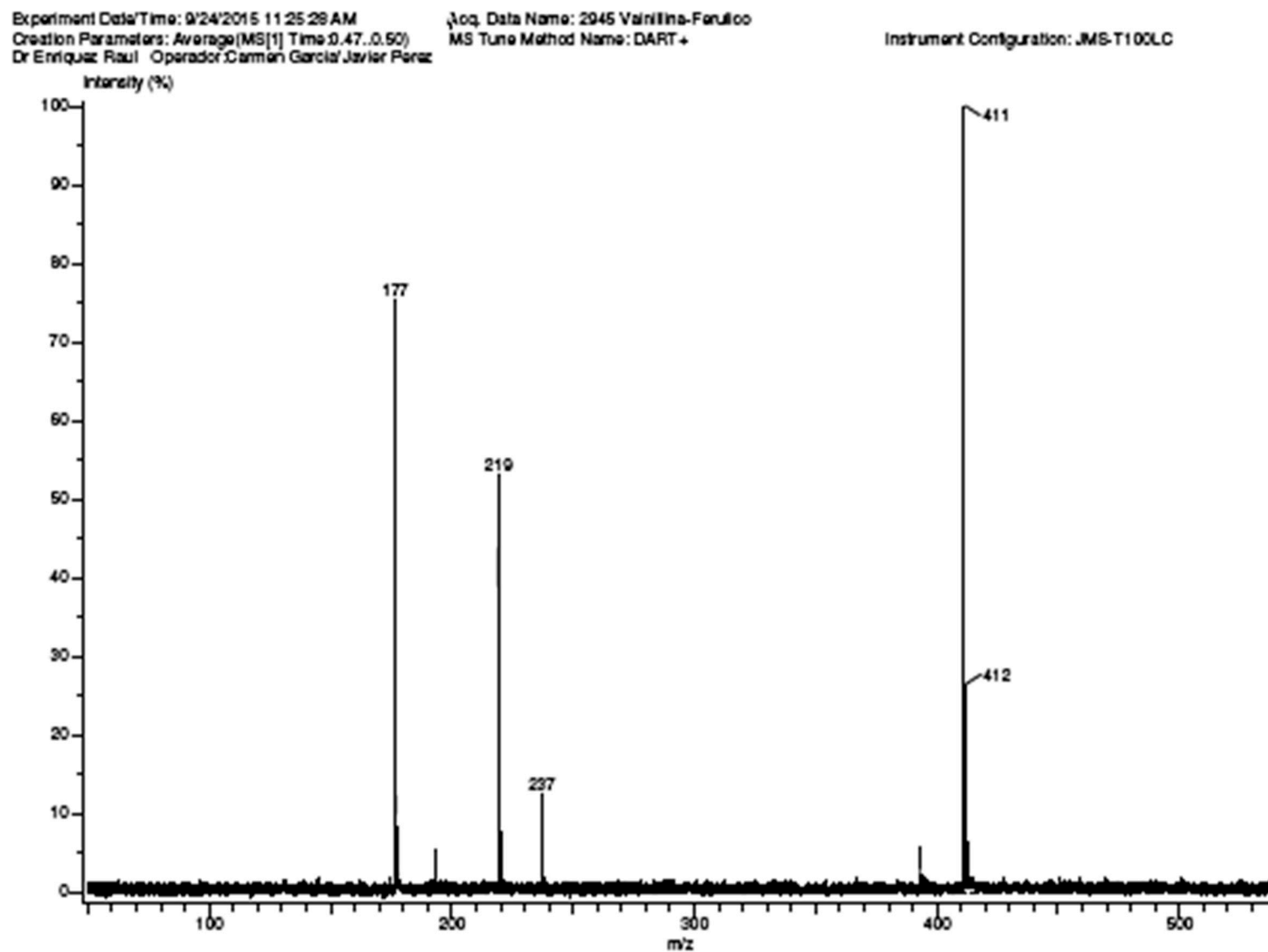
Instrument Configuration: JMS-T100LC



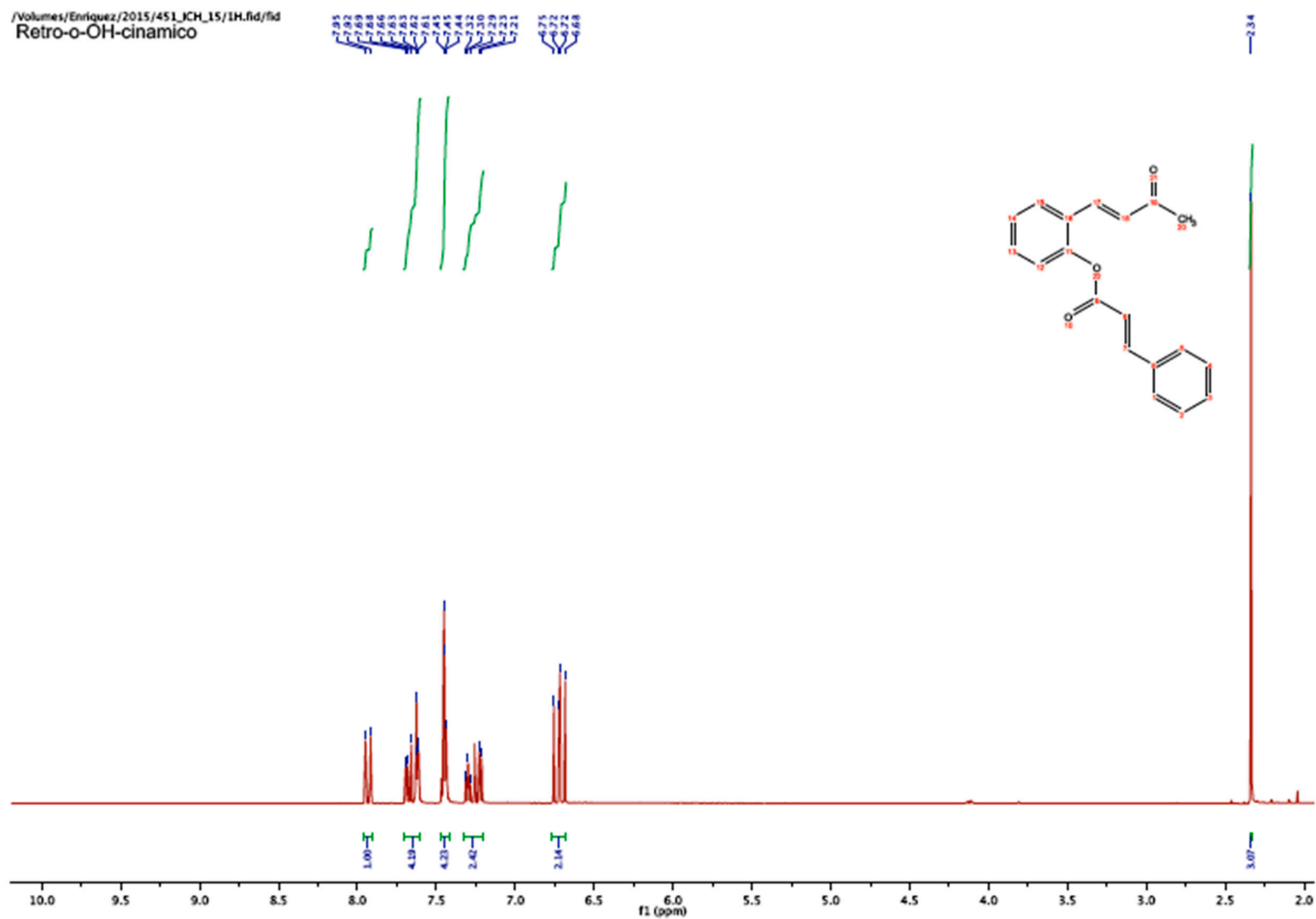
MS Retro-Curcuminoid 13



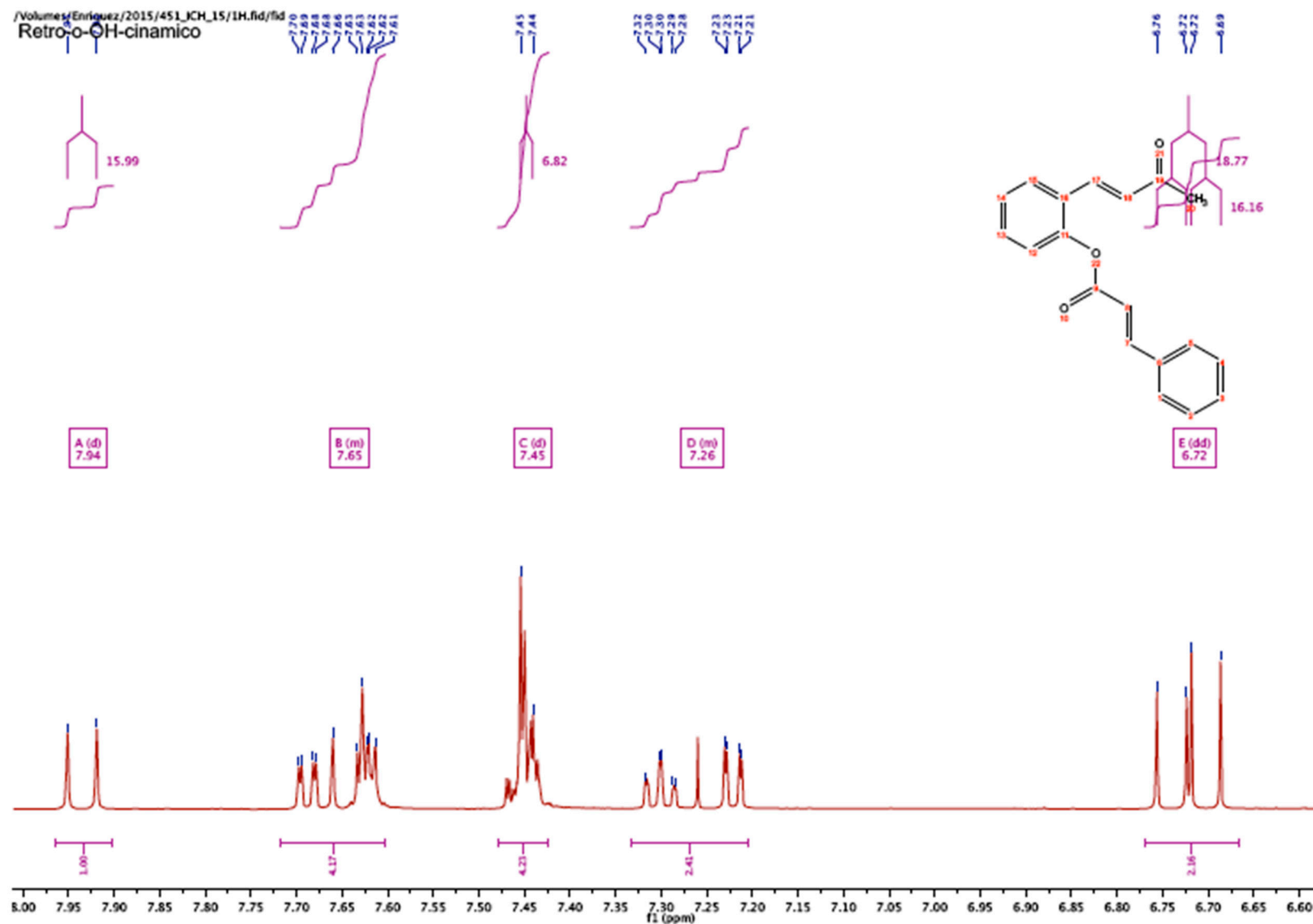
MS Retro-Curcuminoid 14



NMR Retro-Curcuminoid 7

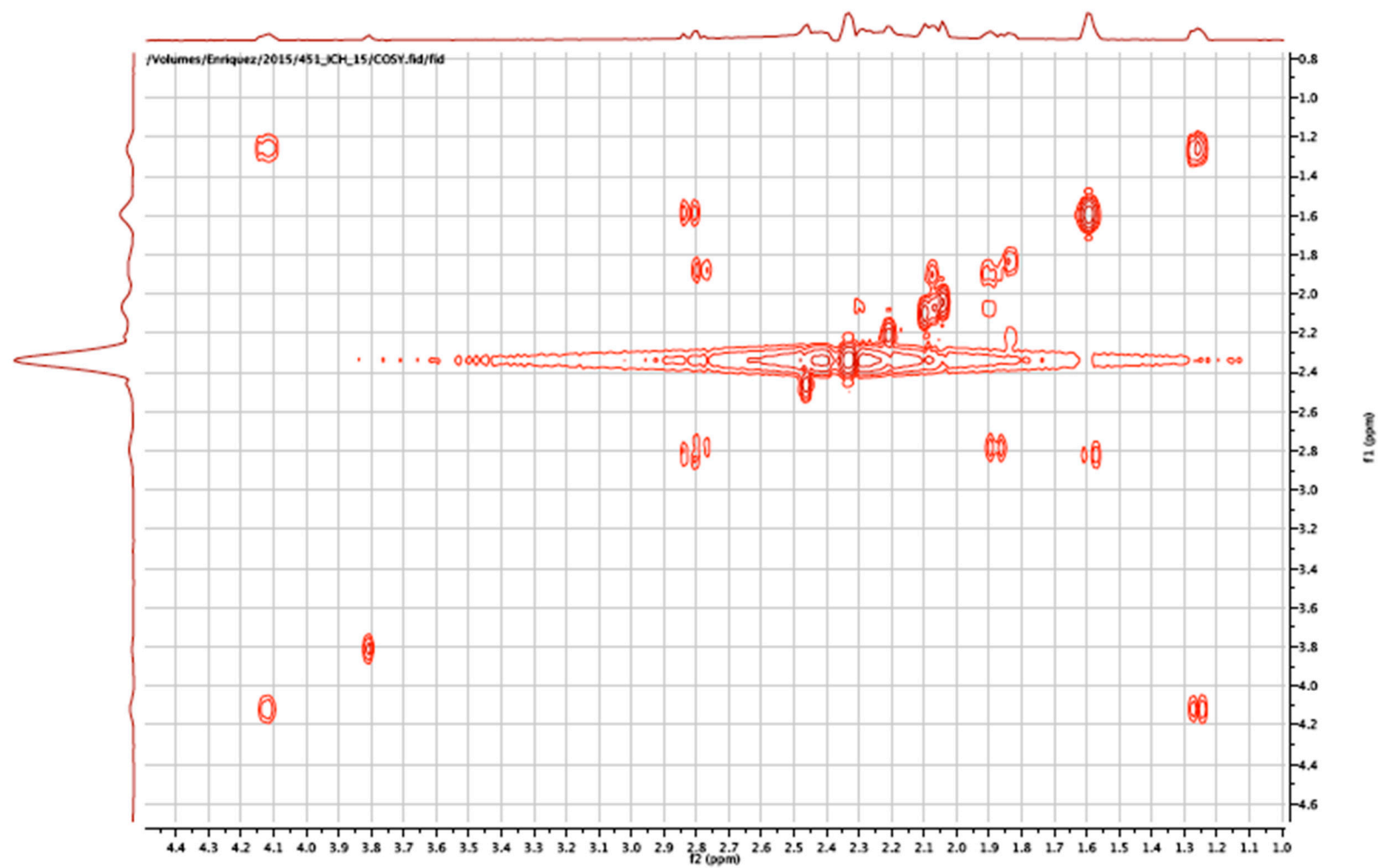


NMR Retro-Curcuminoid 7



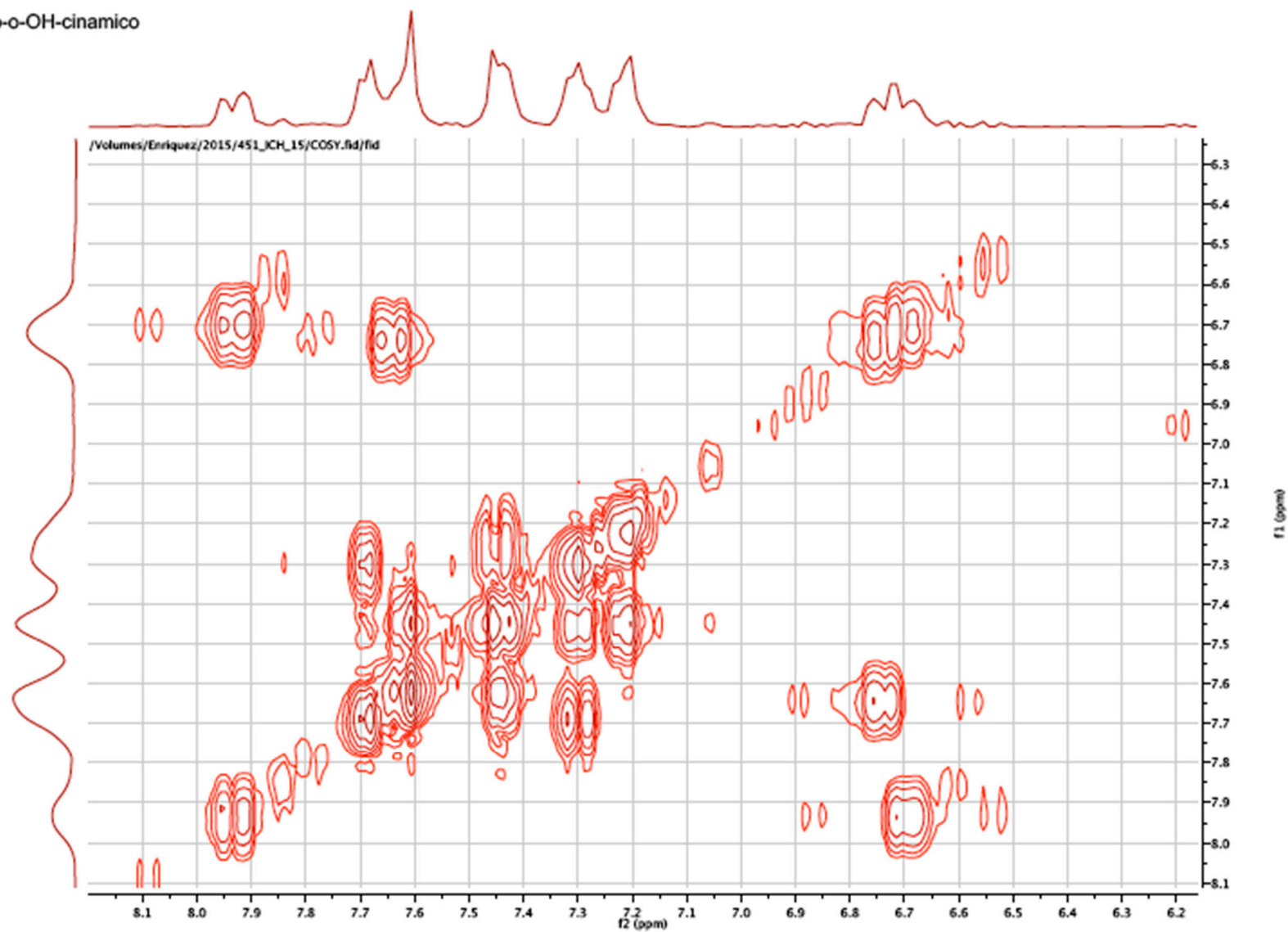
NMR Retro-Curcuminoid 7

Retro-o-OH-cinamico

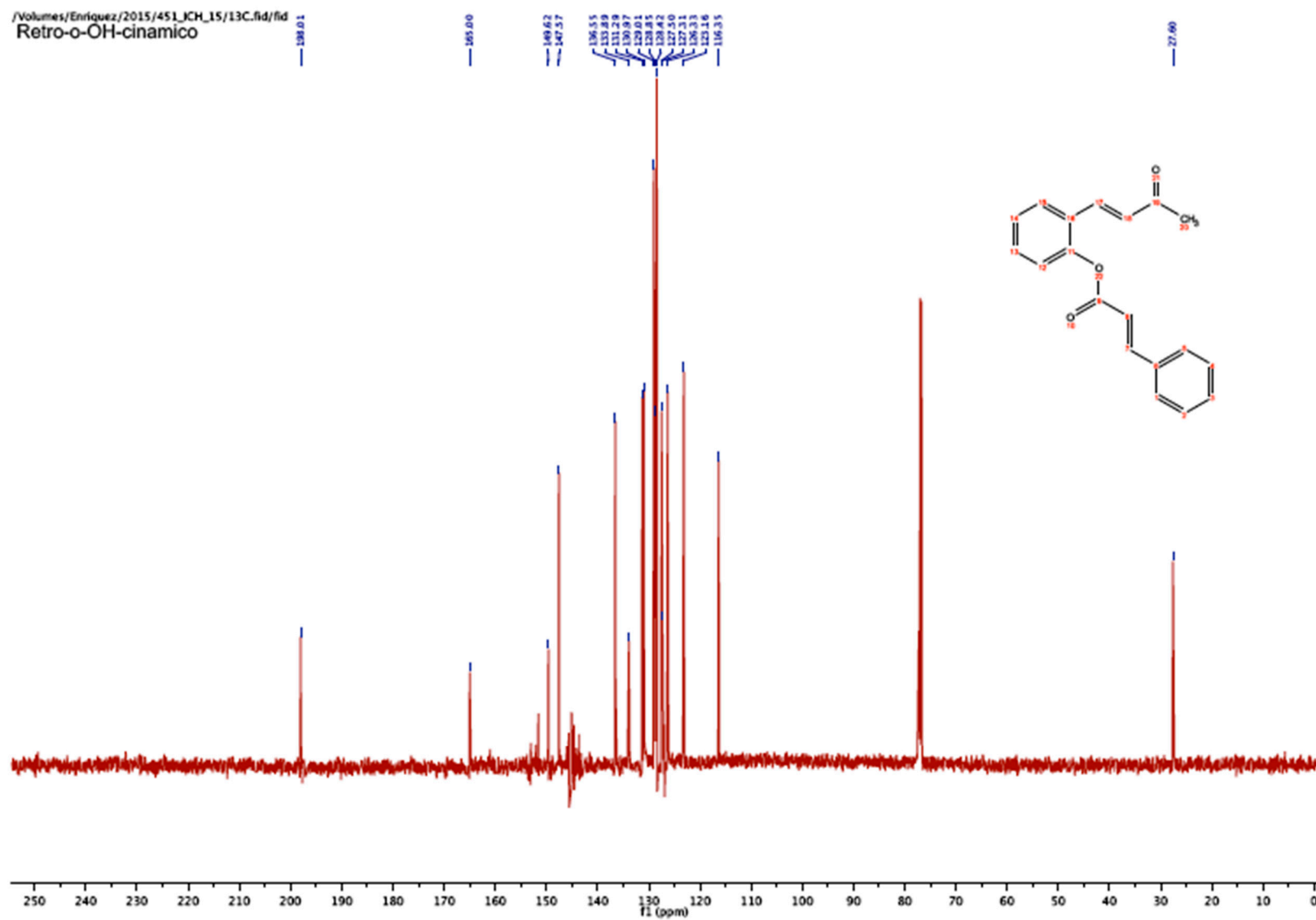


NMR Retro-Curcuminoid 7

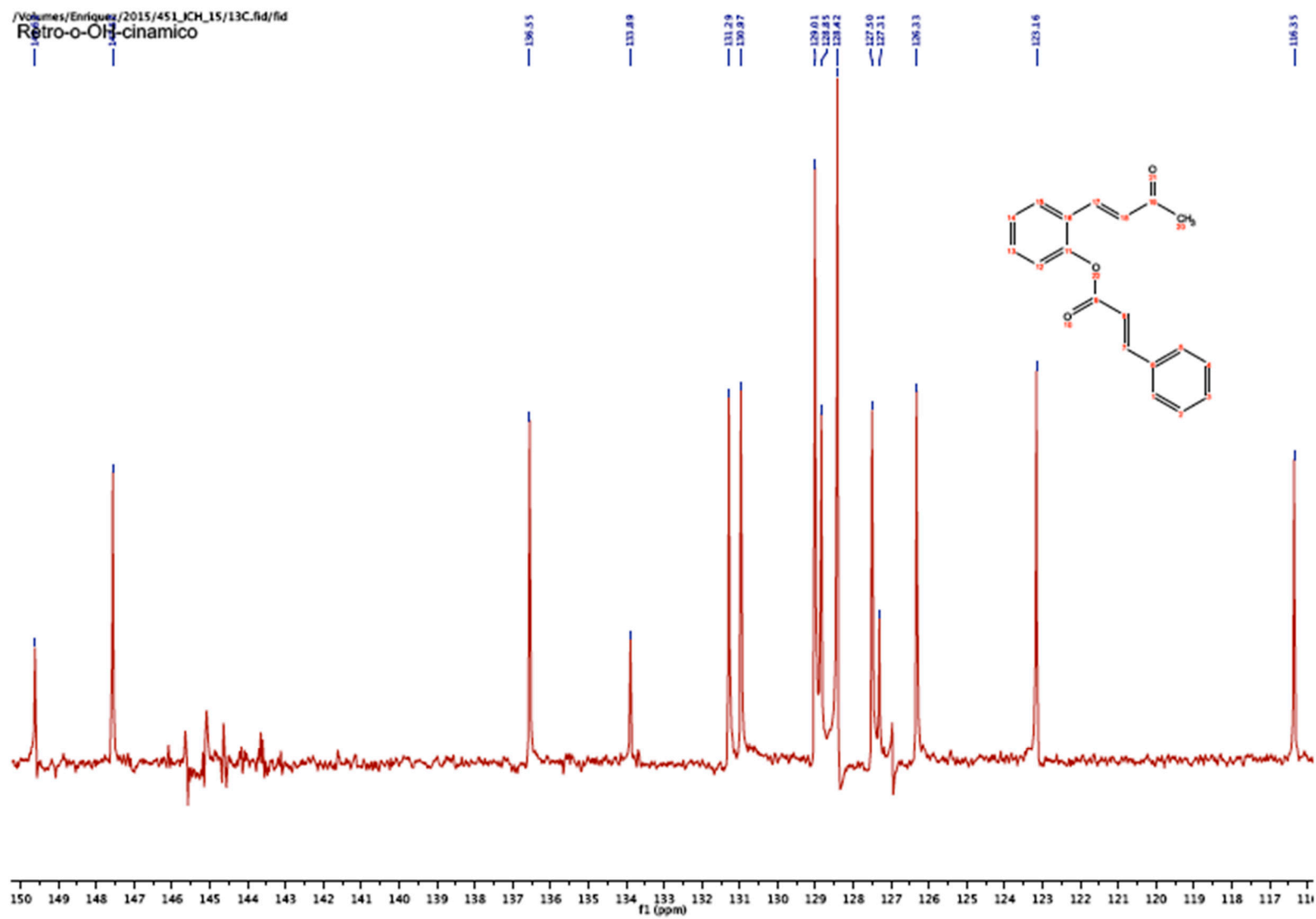
Retro-o-OH-cinamico



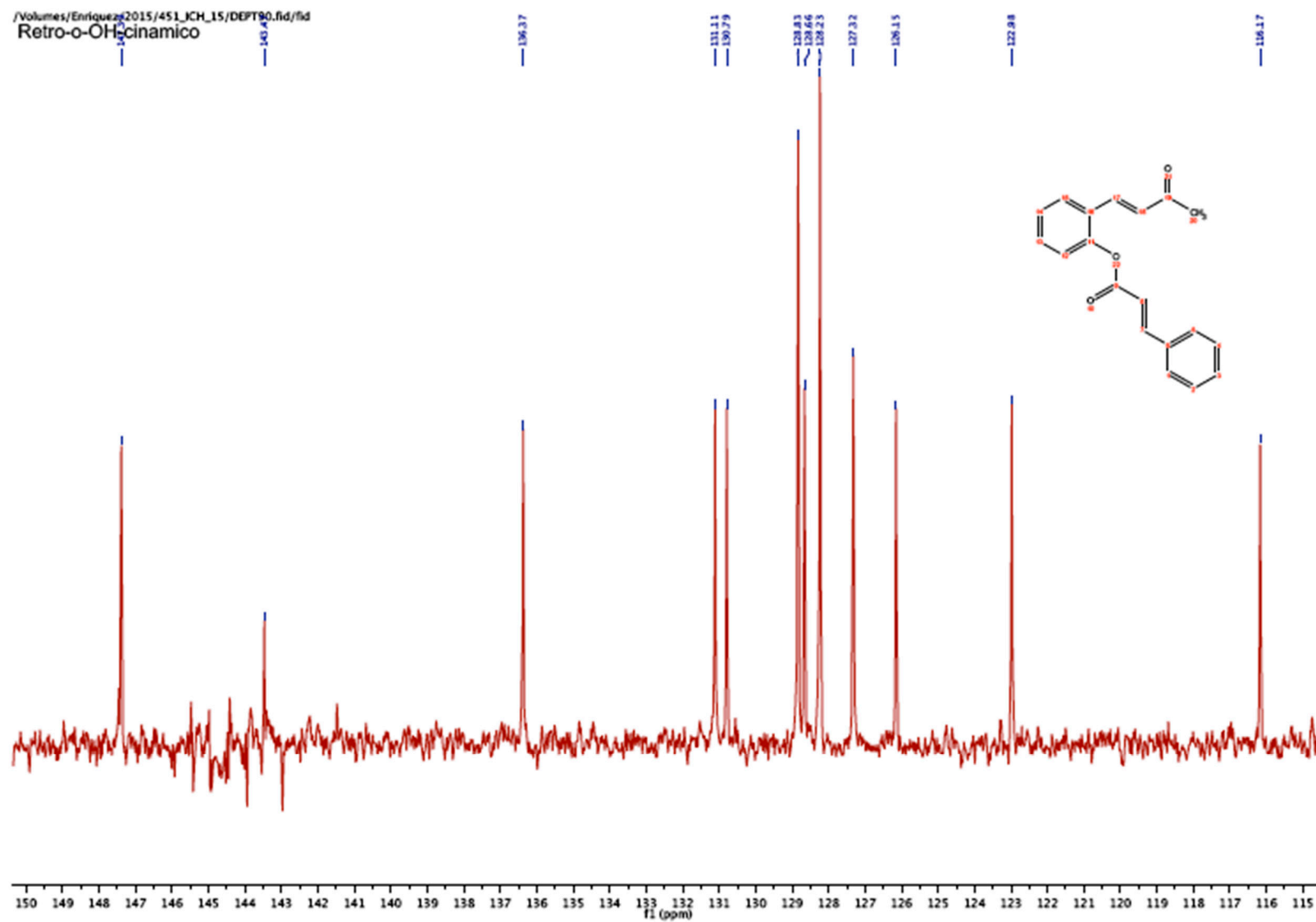
NMR Retro-Curcuminoid 7



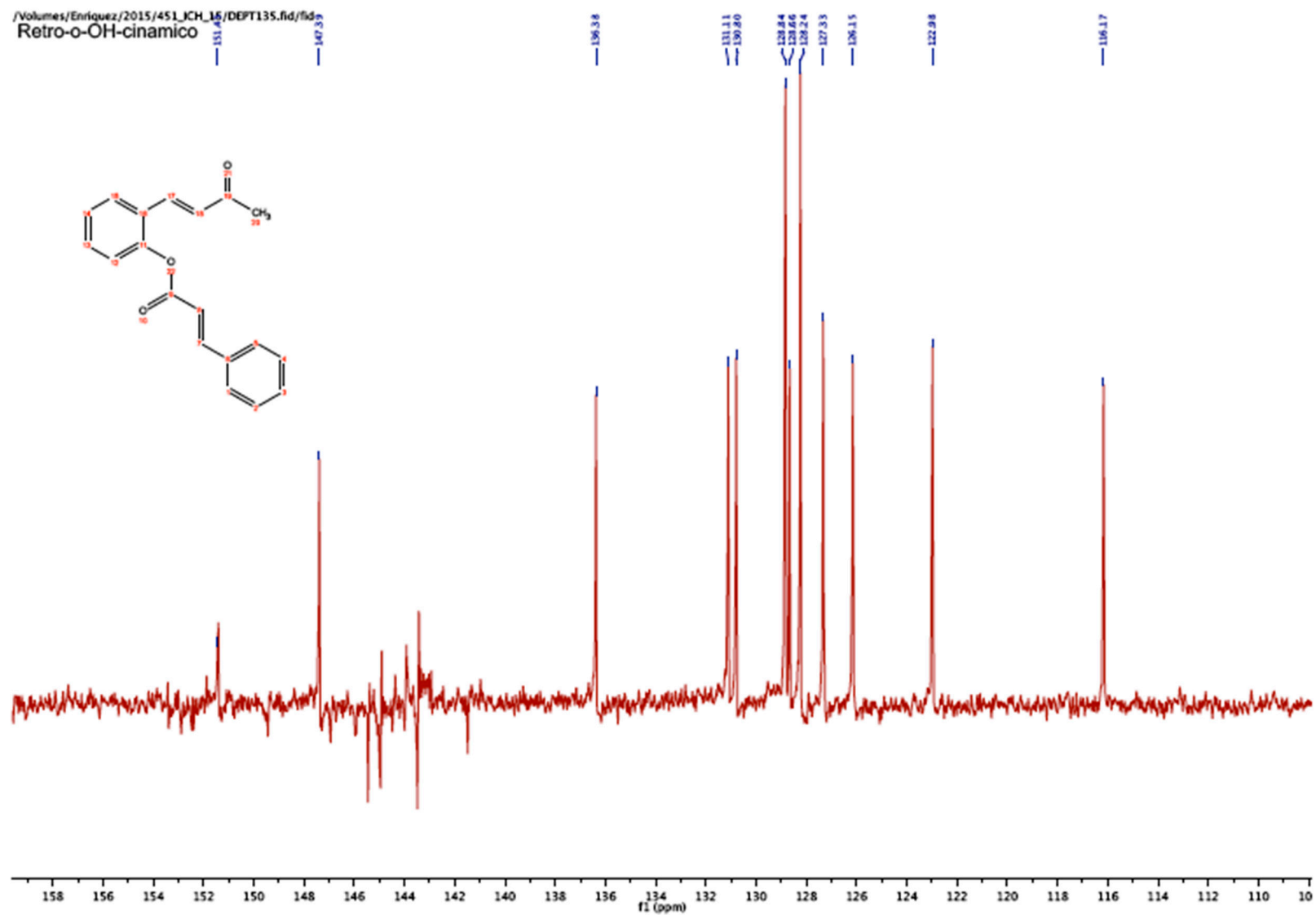
NMR Retro-Curcuminoid 7



NMR Retro-Curcuminoid 7

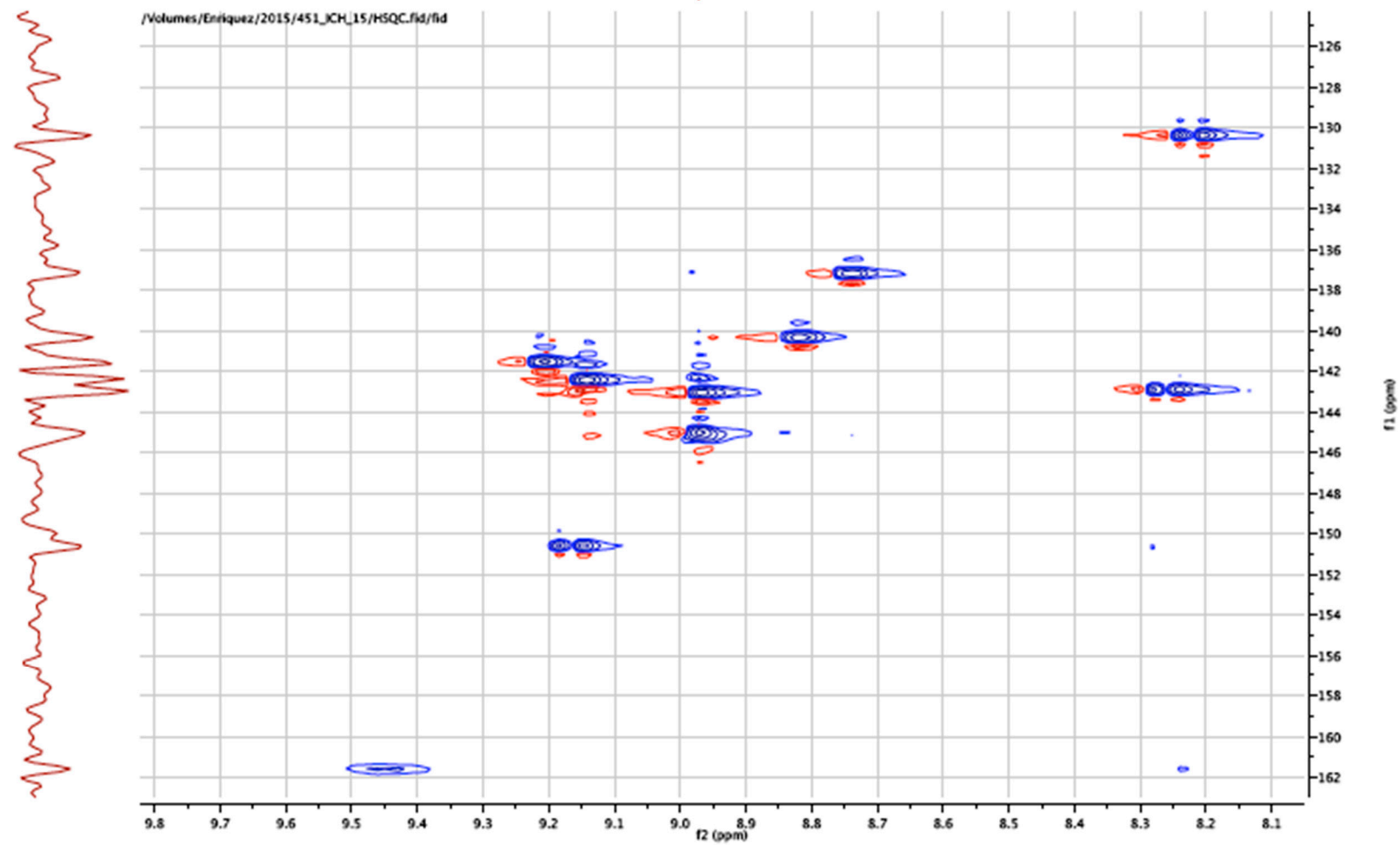


NMR Retro-Curcuminoid 7

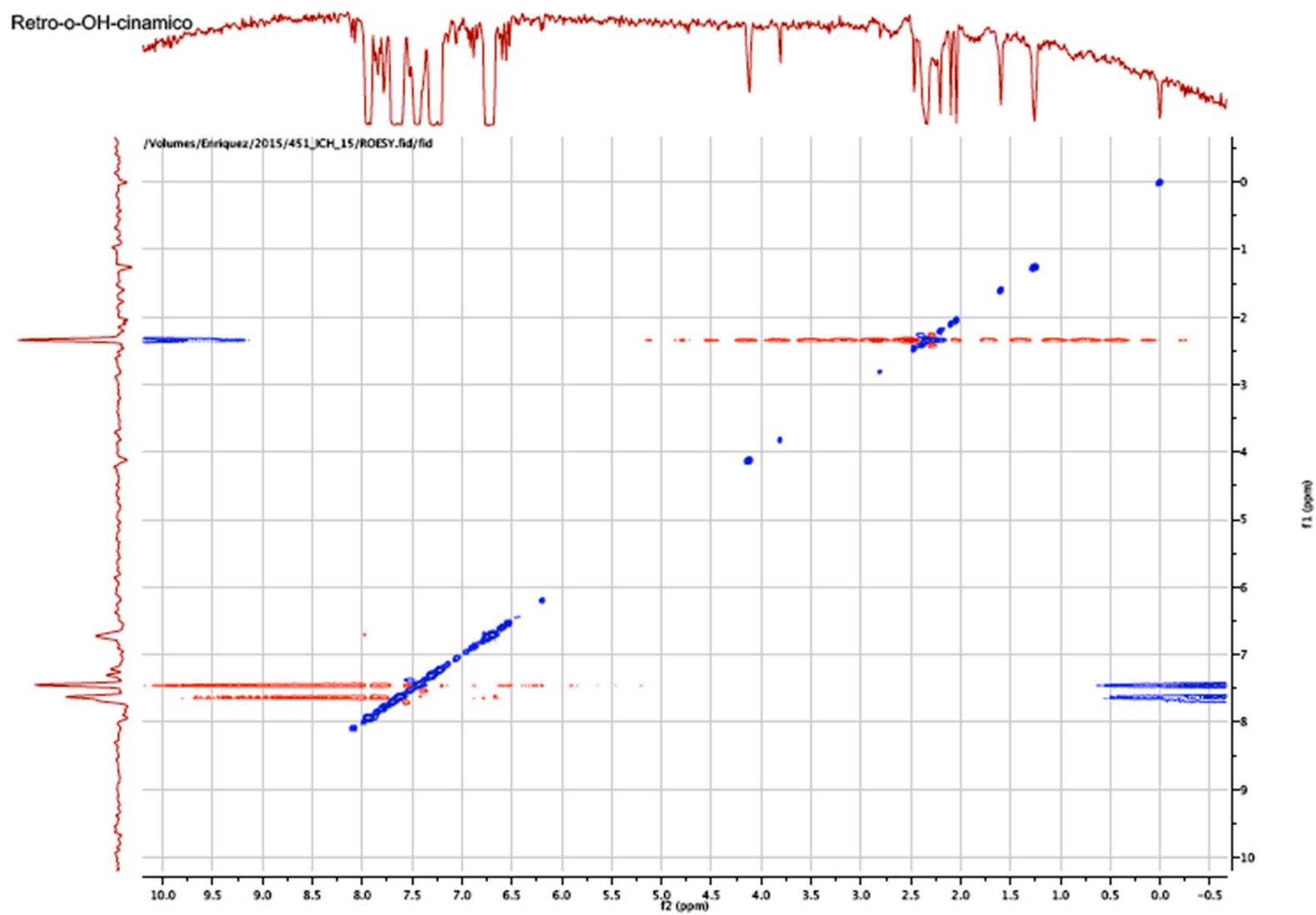


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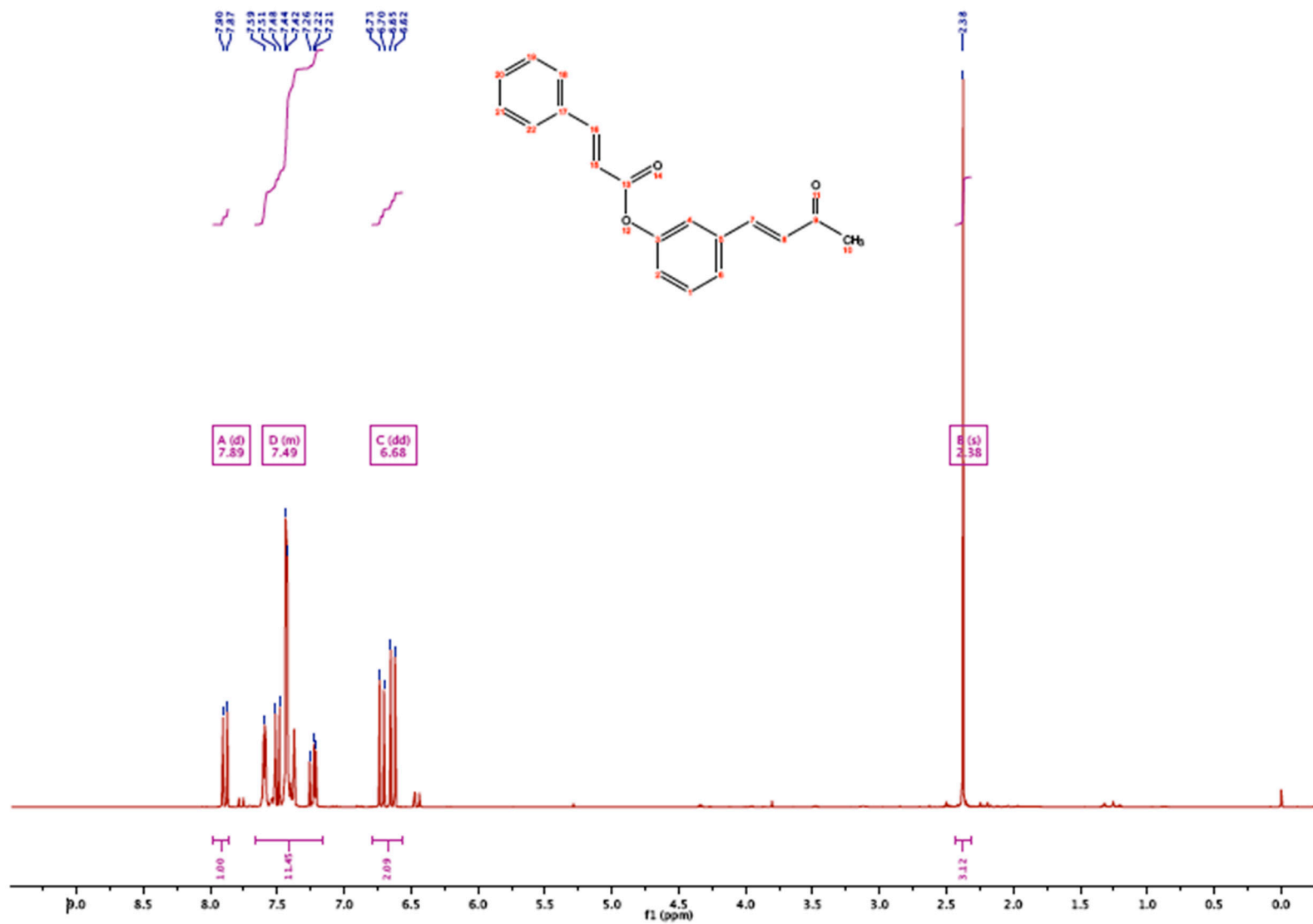
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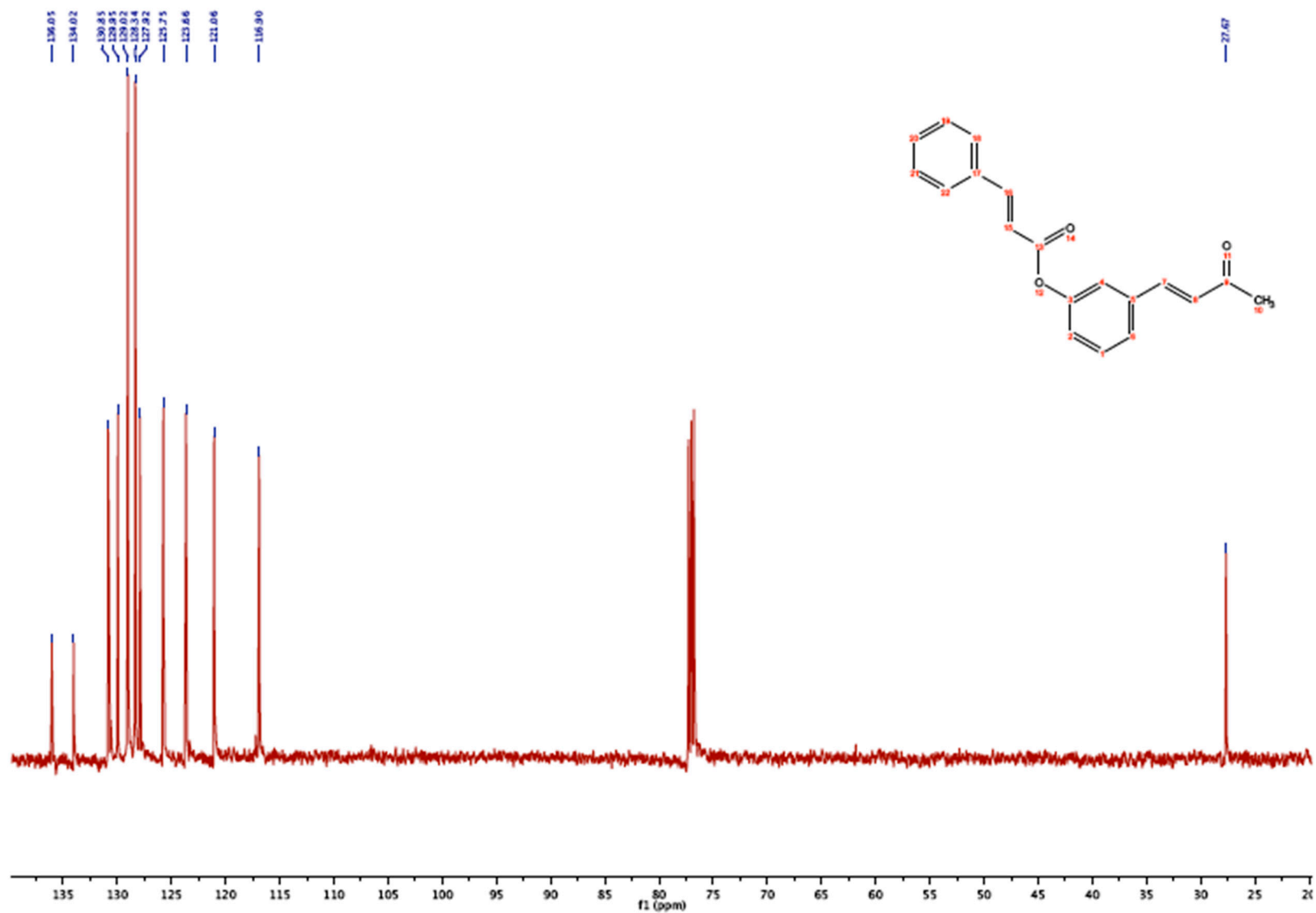
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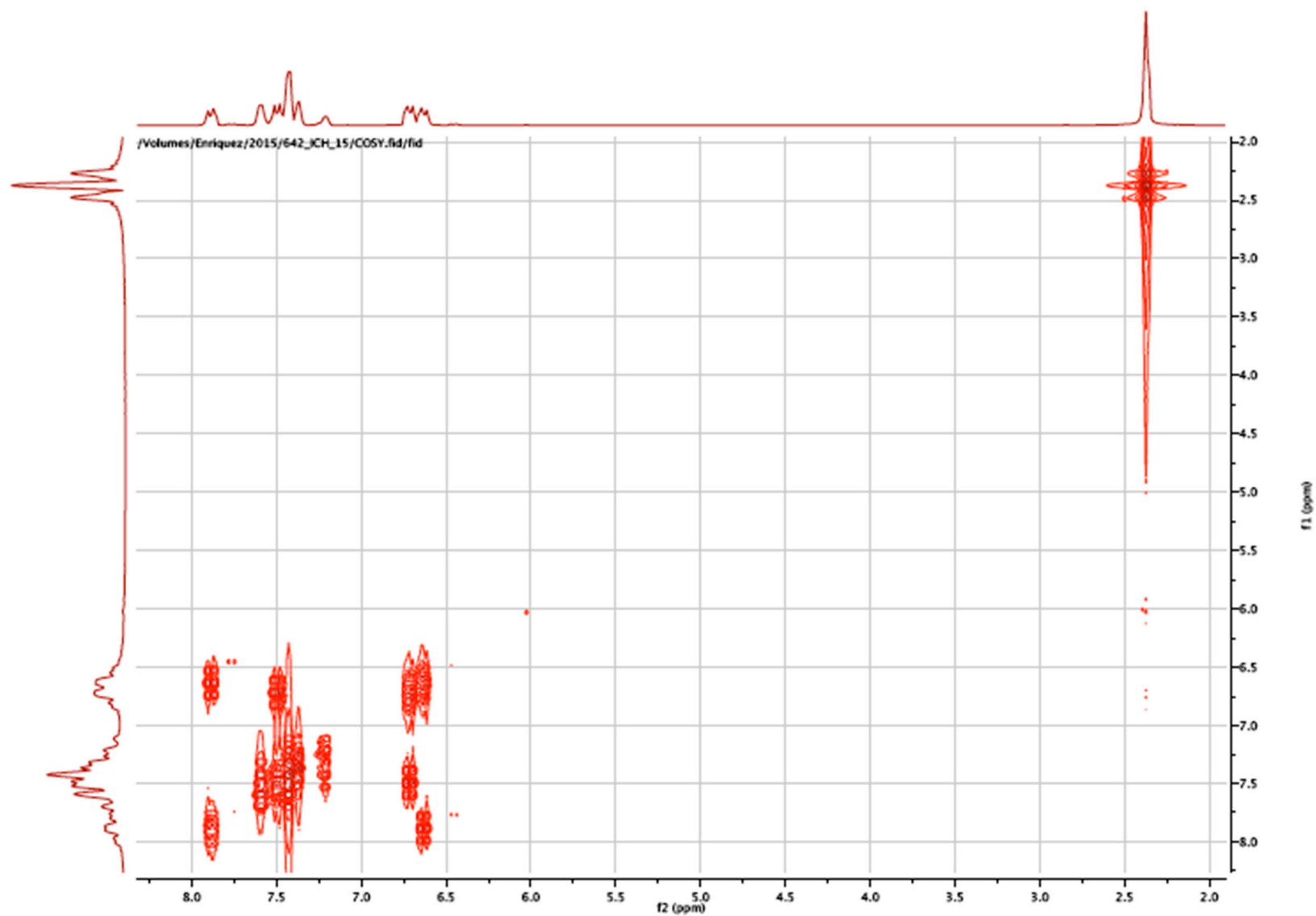
NMR Retro-Curcuminoid 8



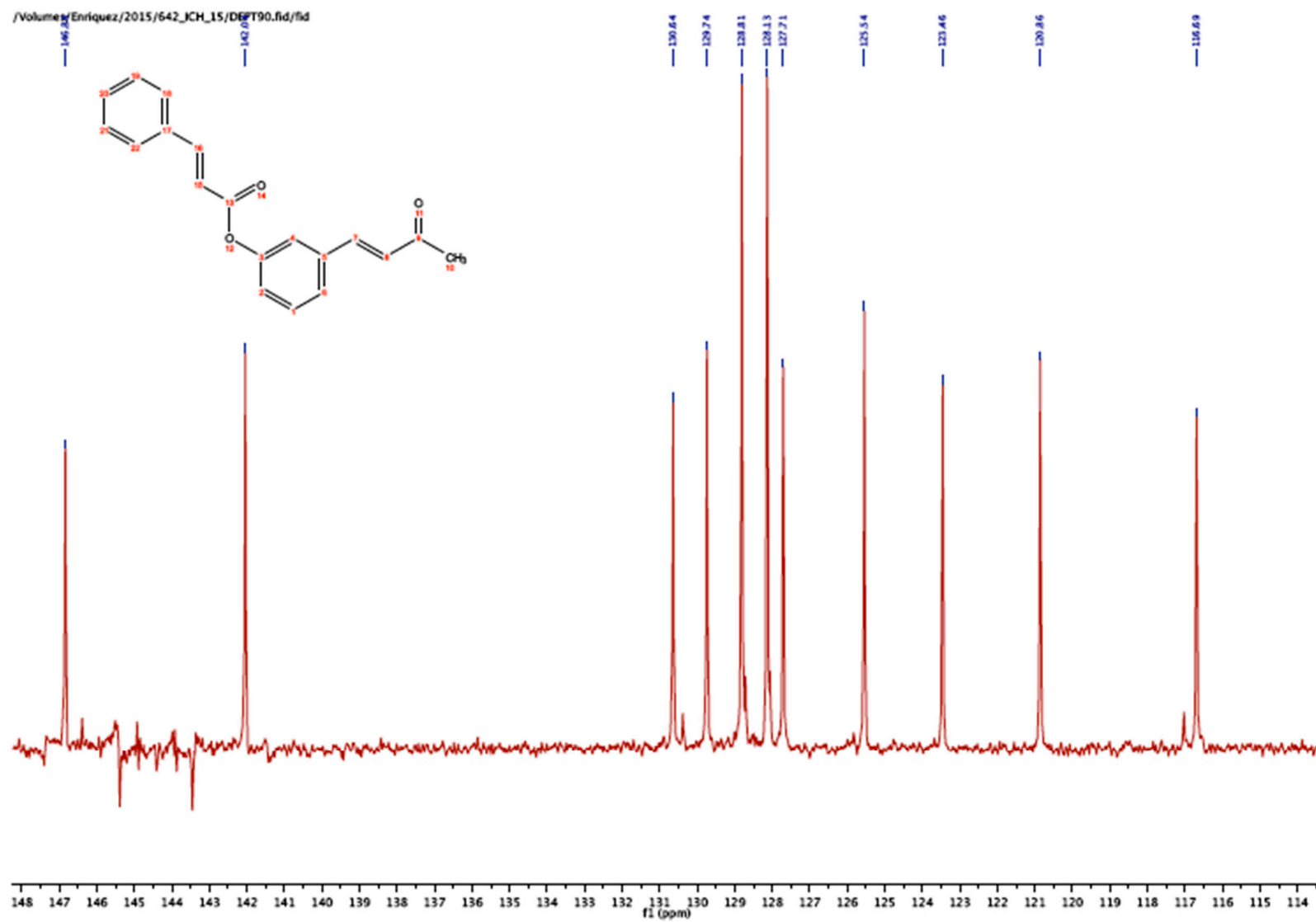
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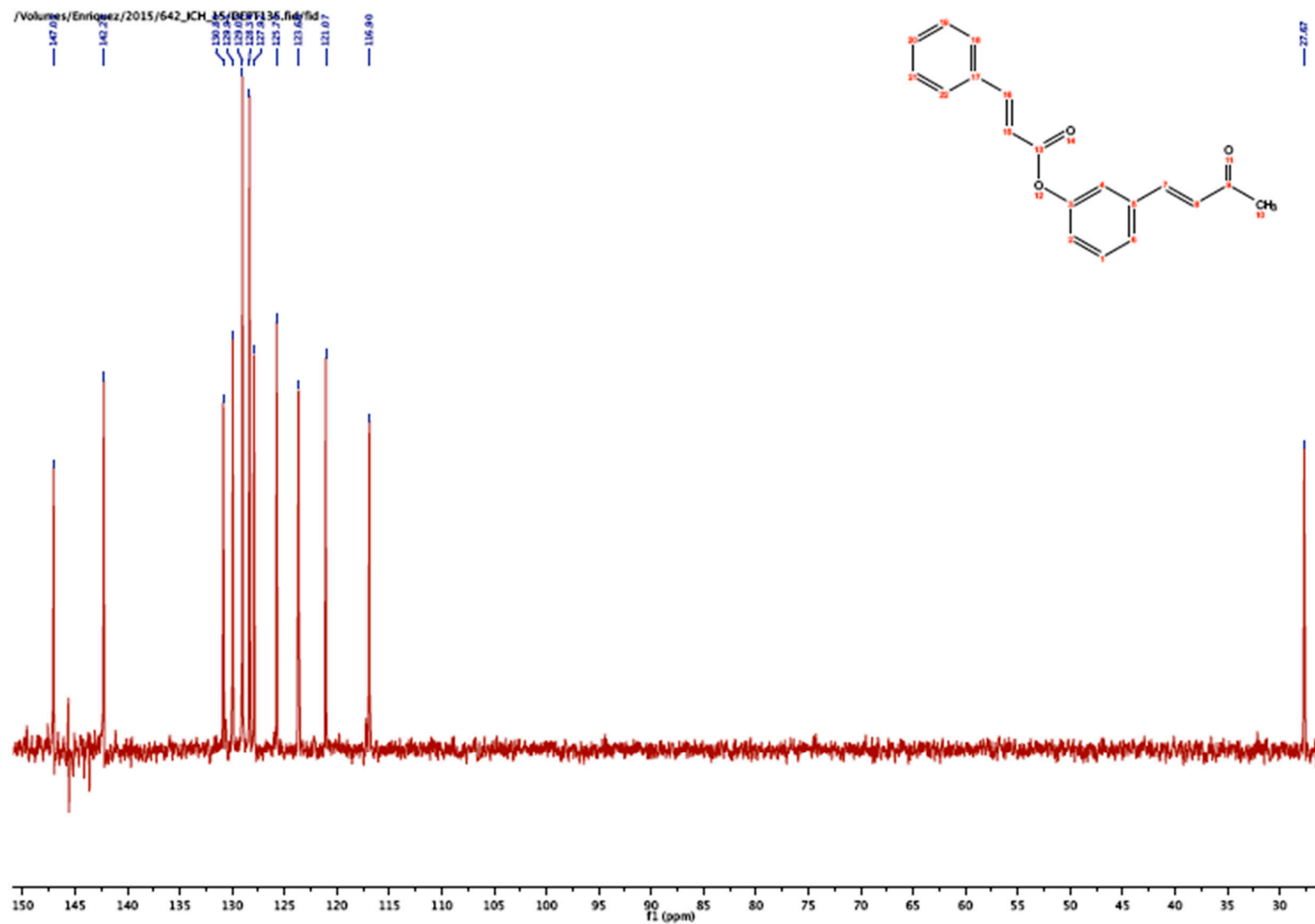
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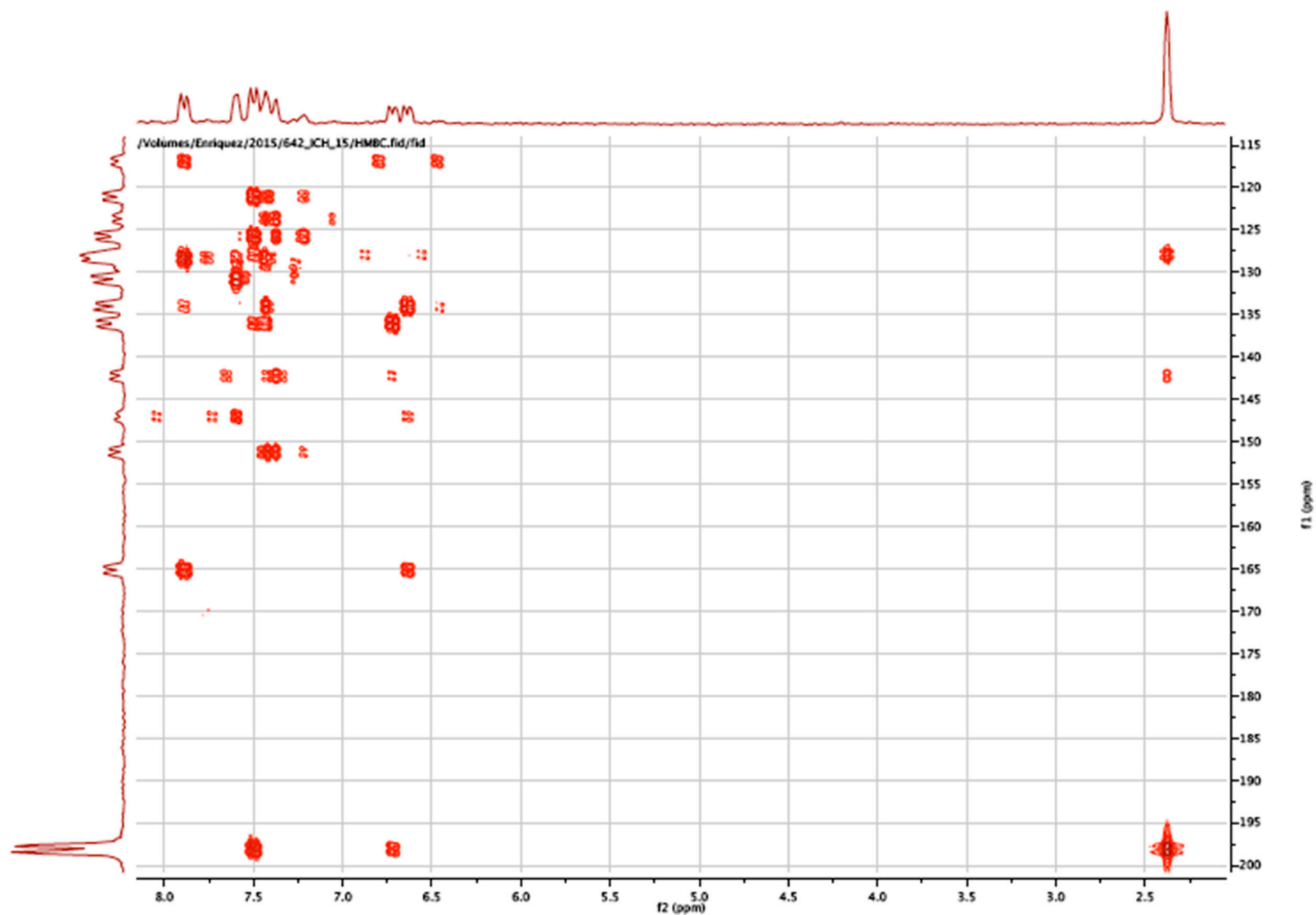
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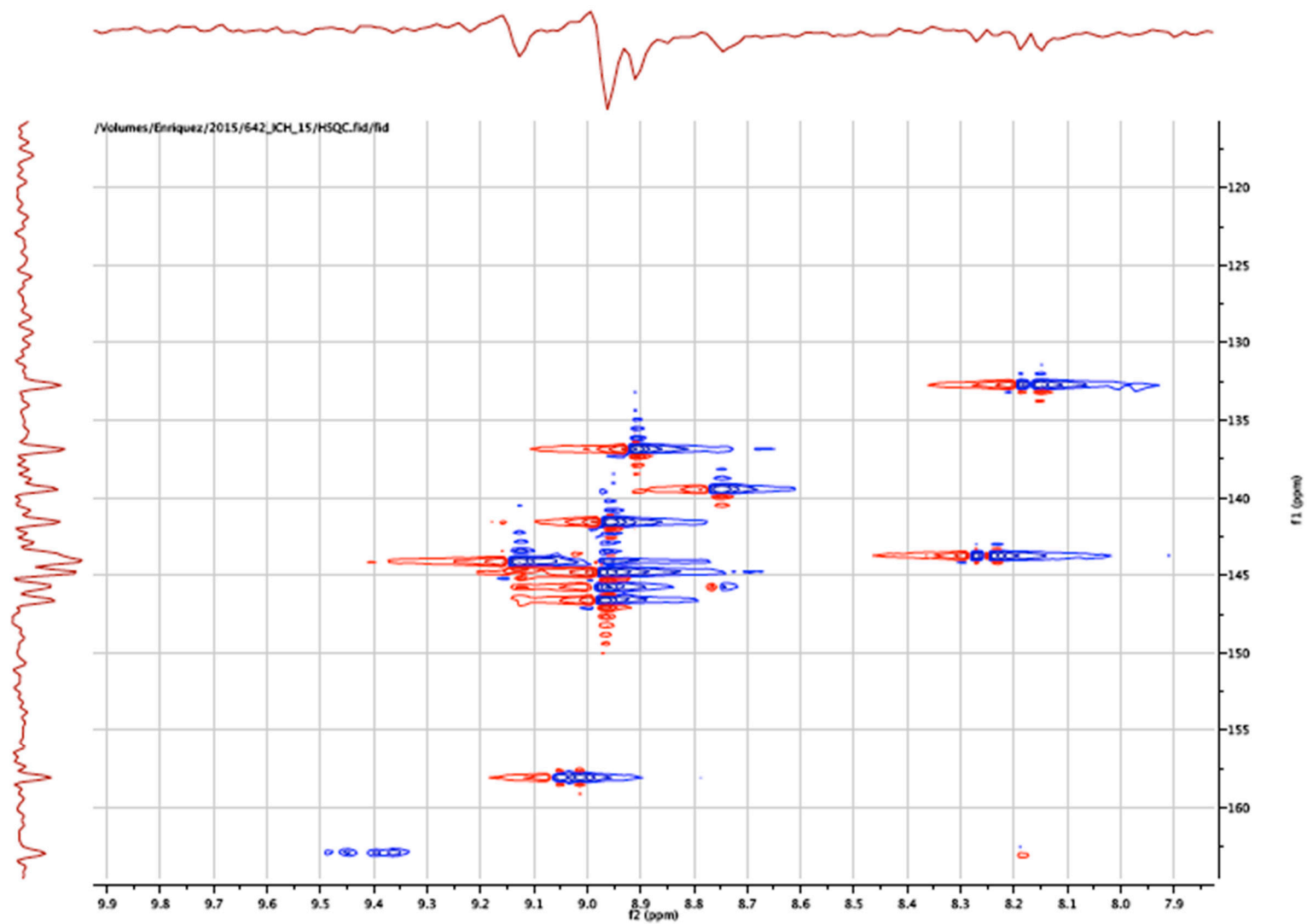
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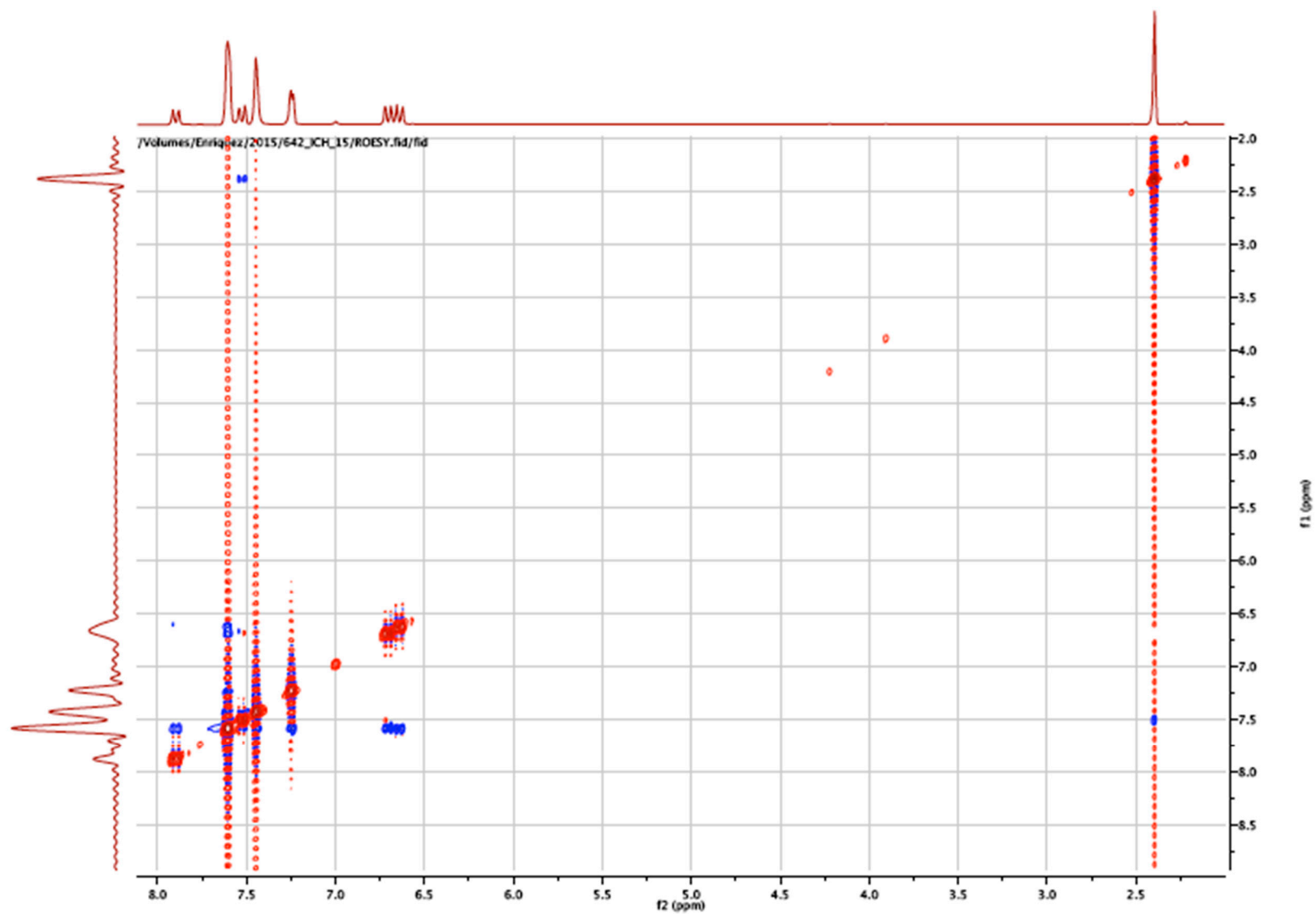
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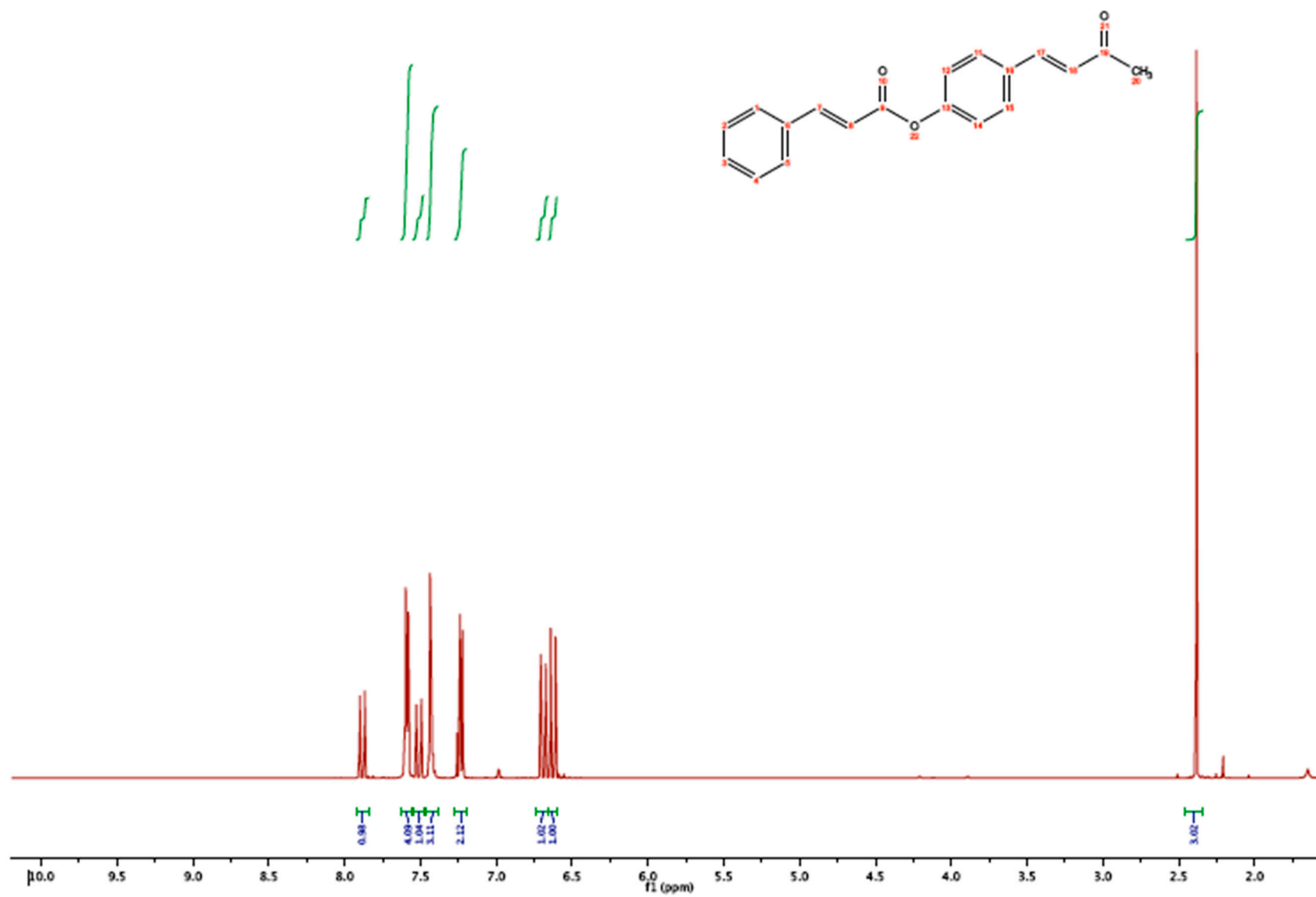
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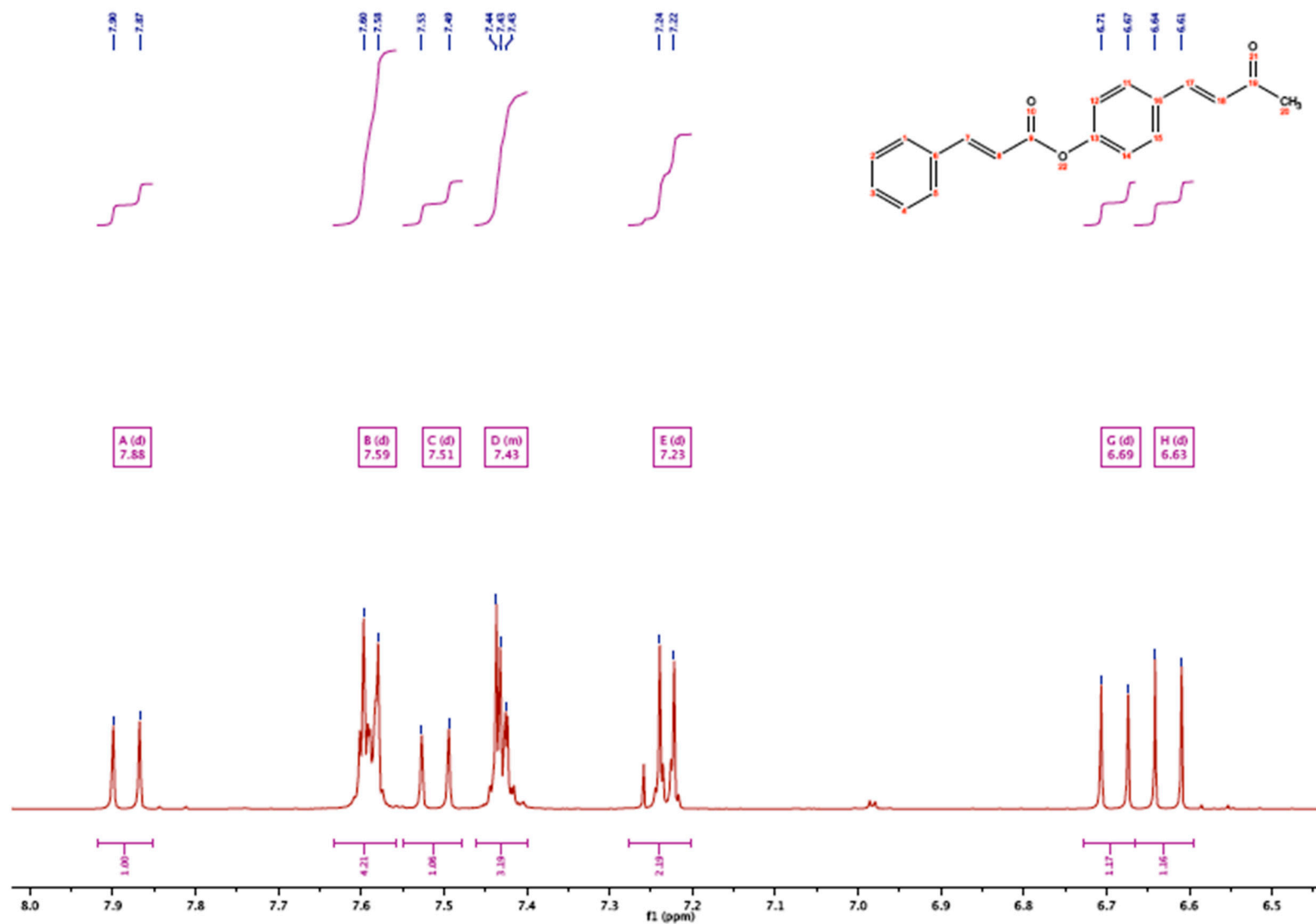
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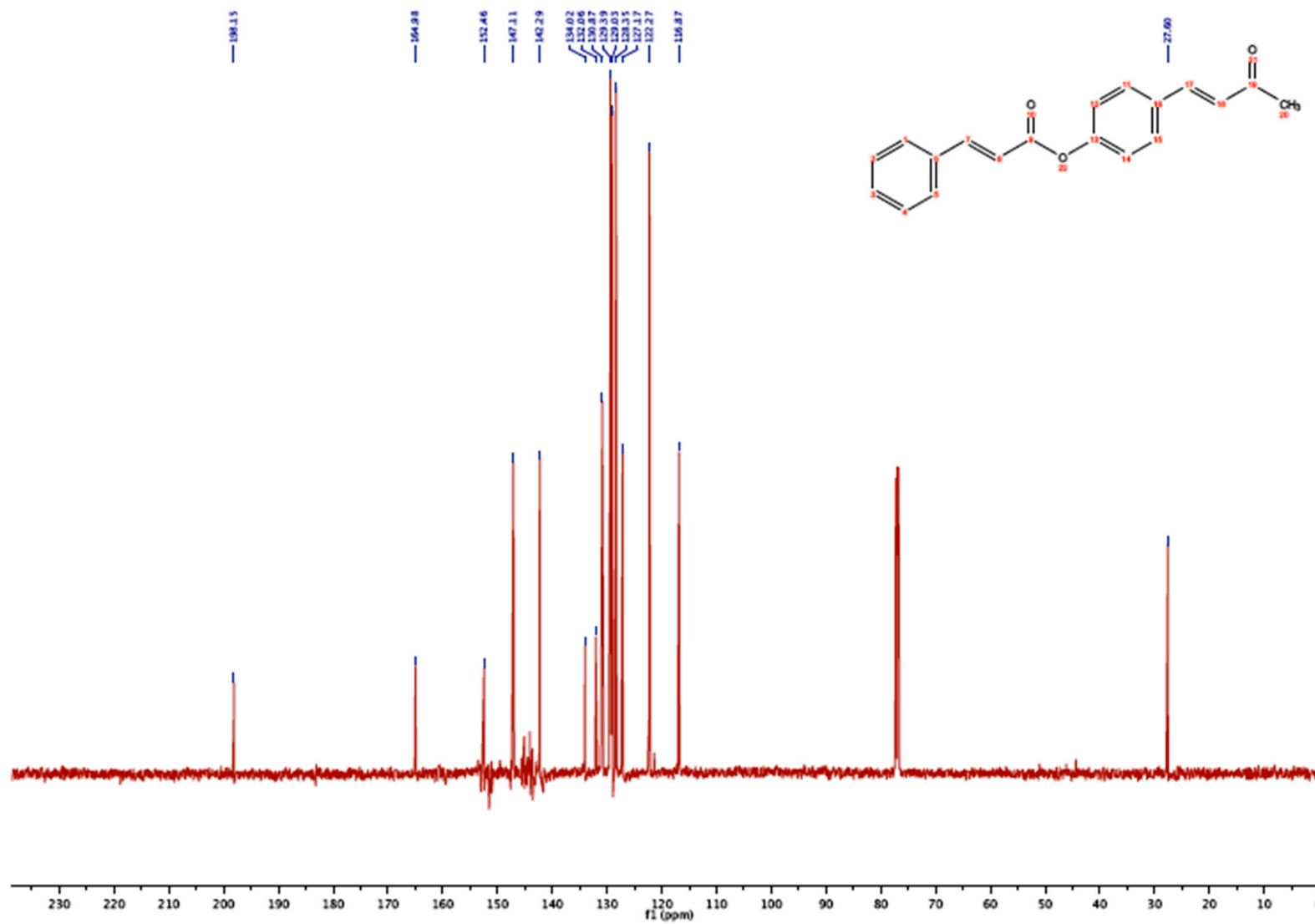
NMR Retro-Curcuminoid 9

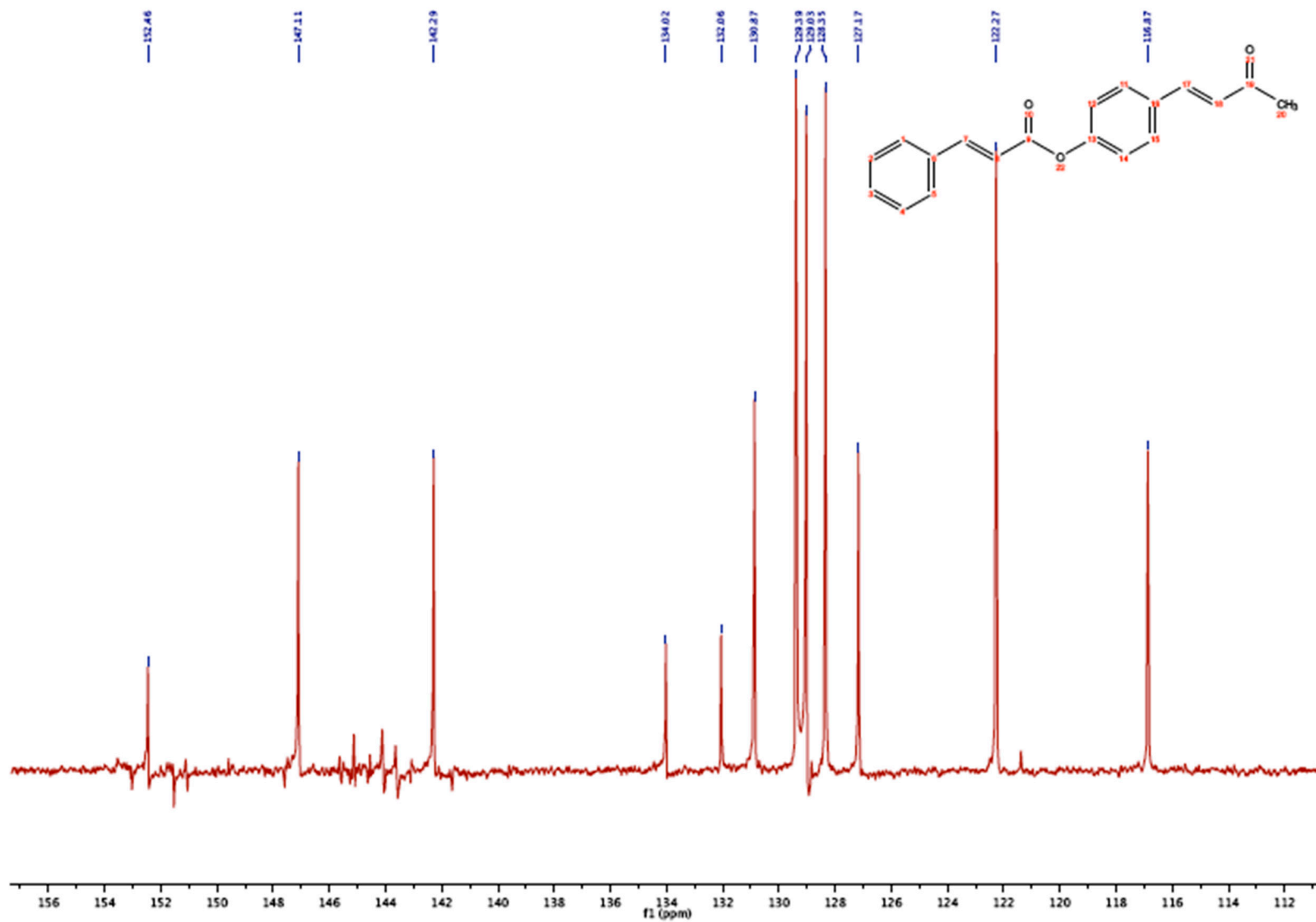


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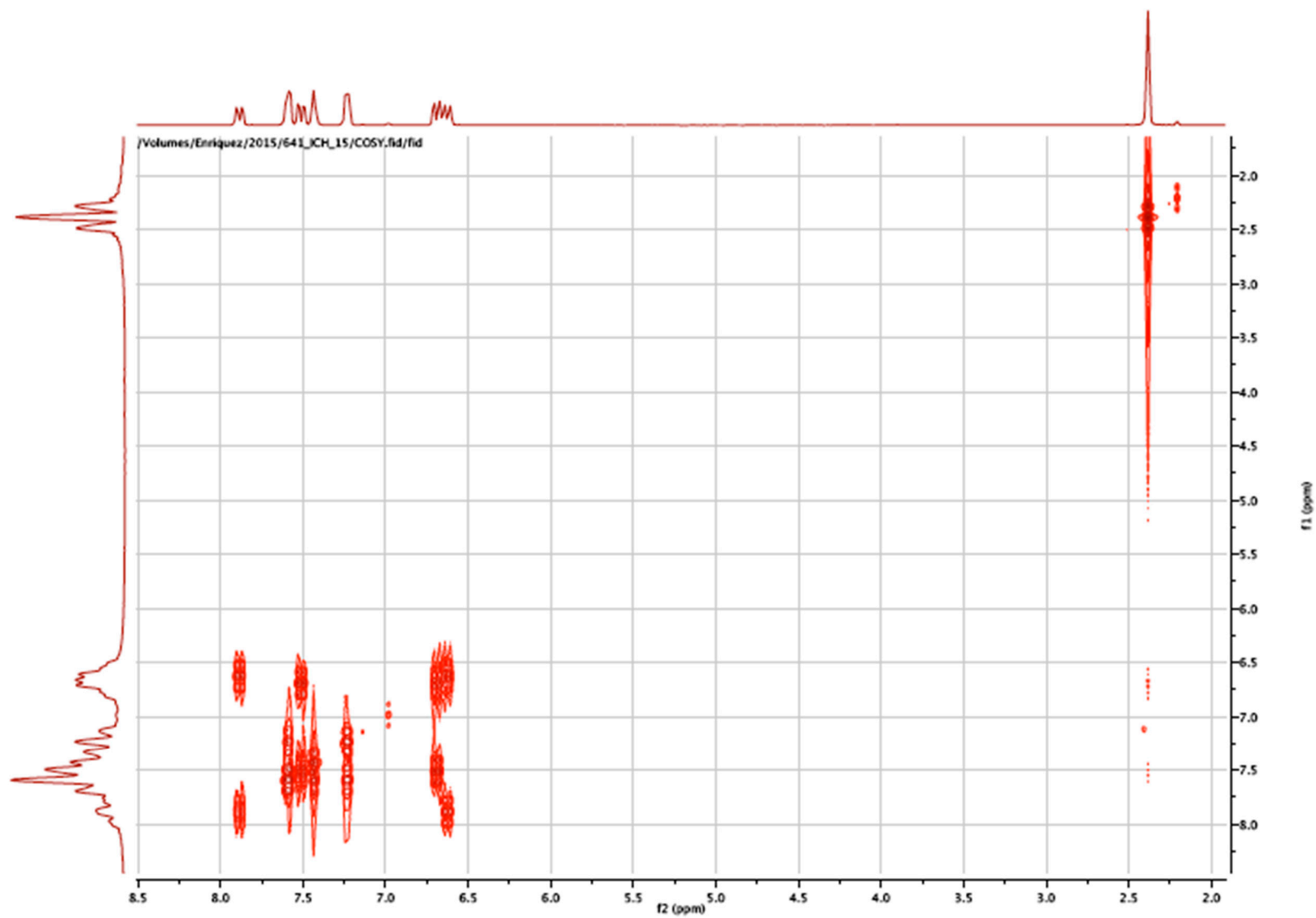


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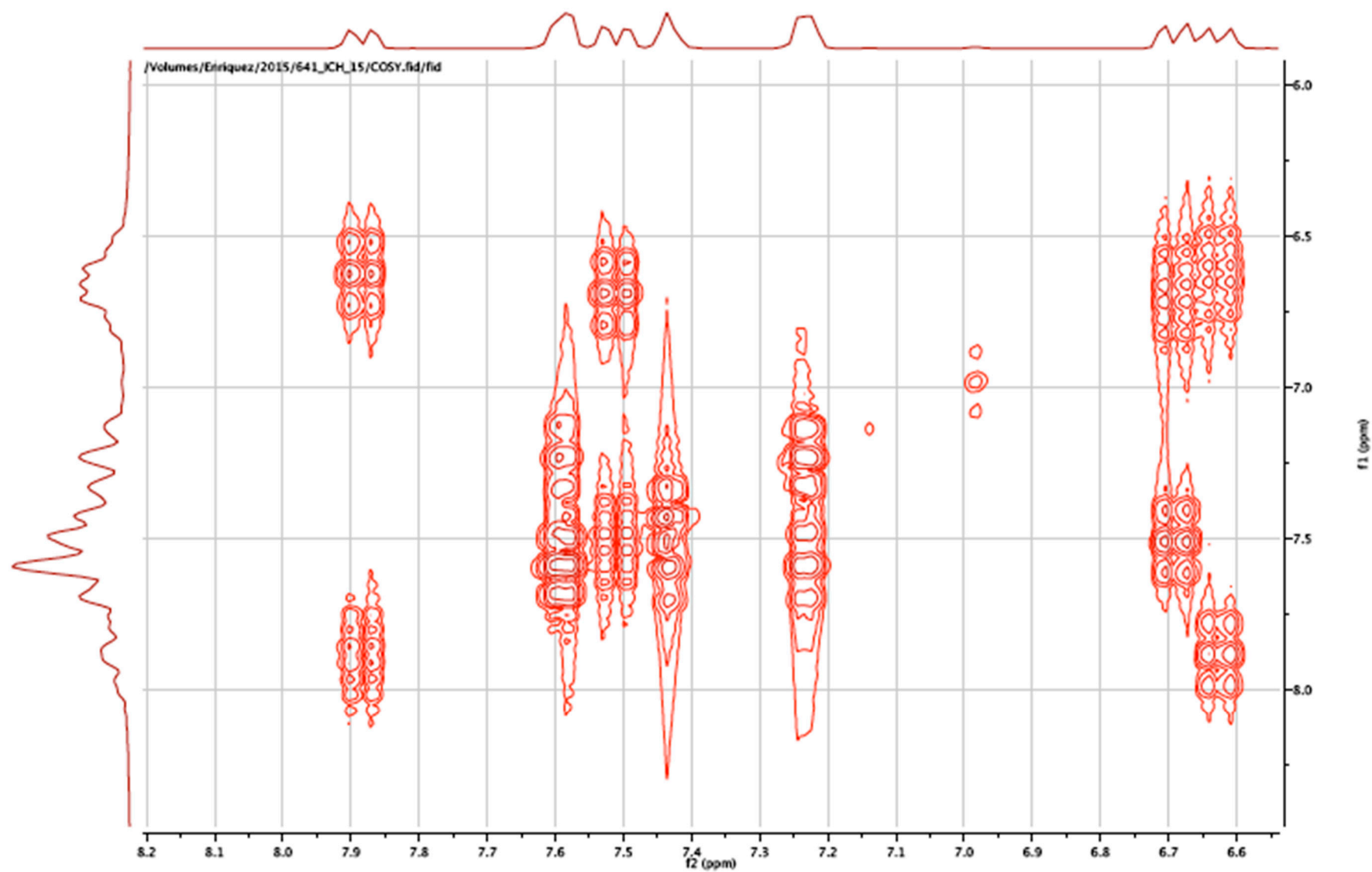


NMR *Retro*-Curcuminoid 9

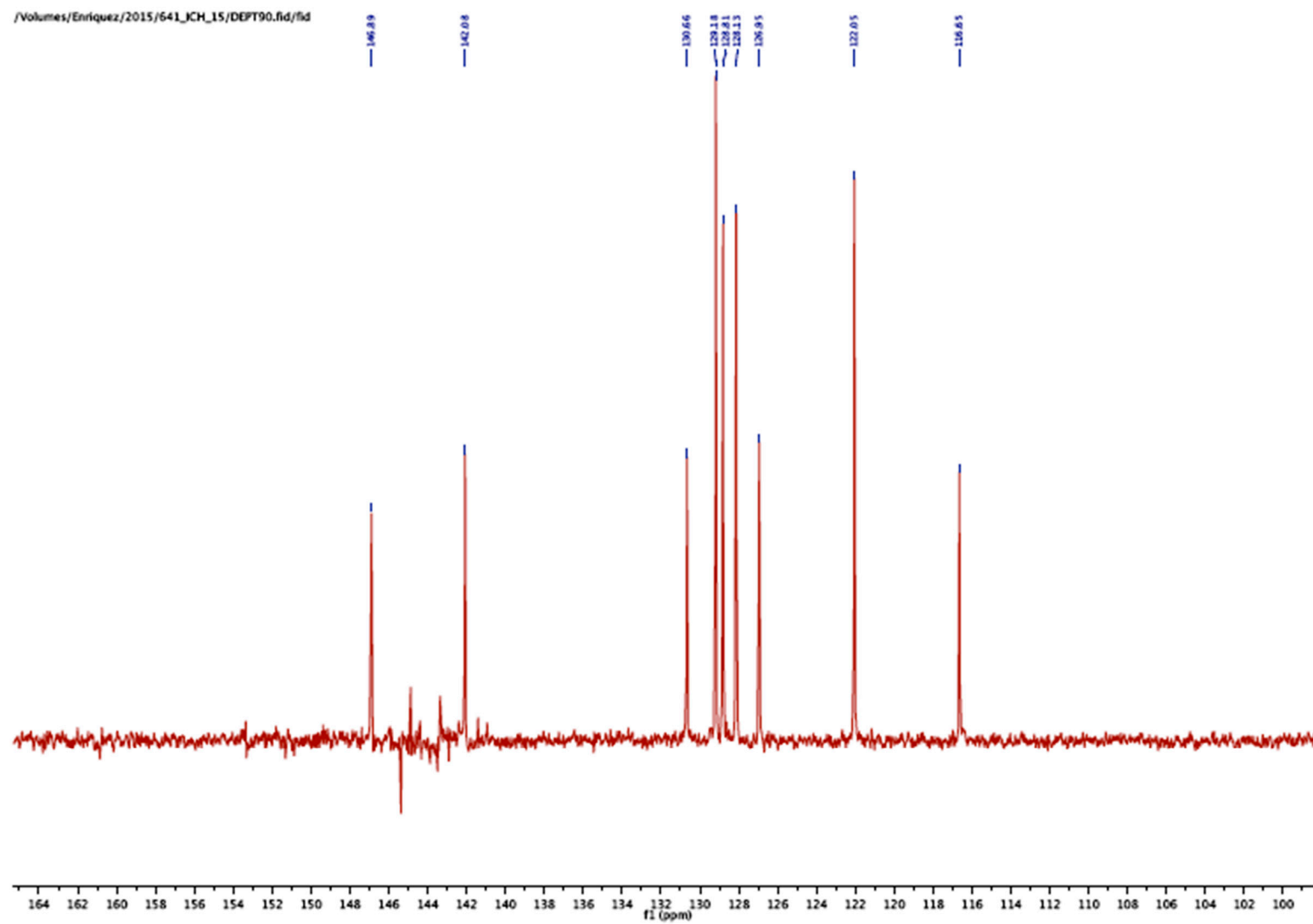
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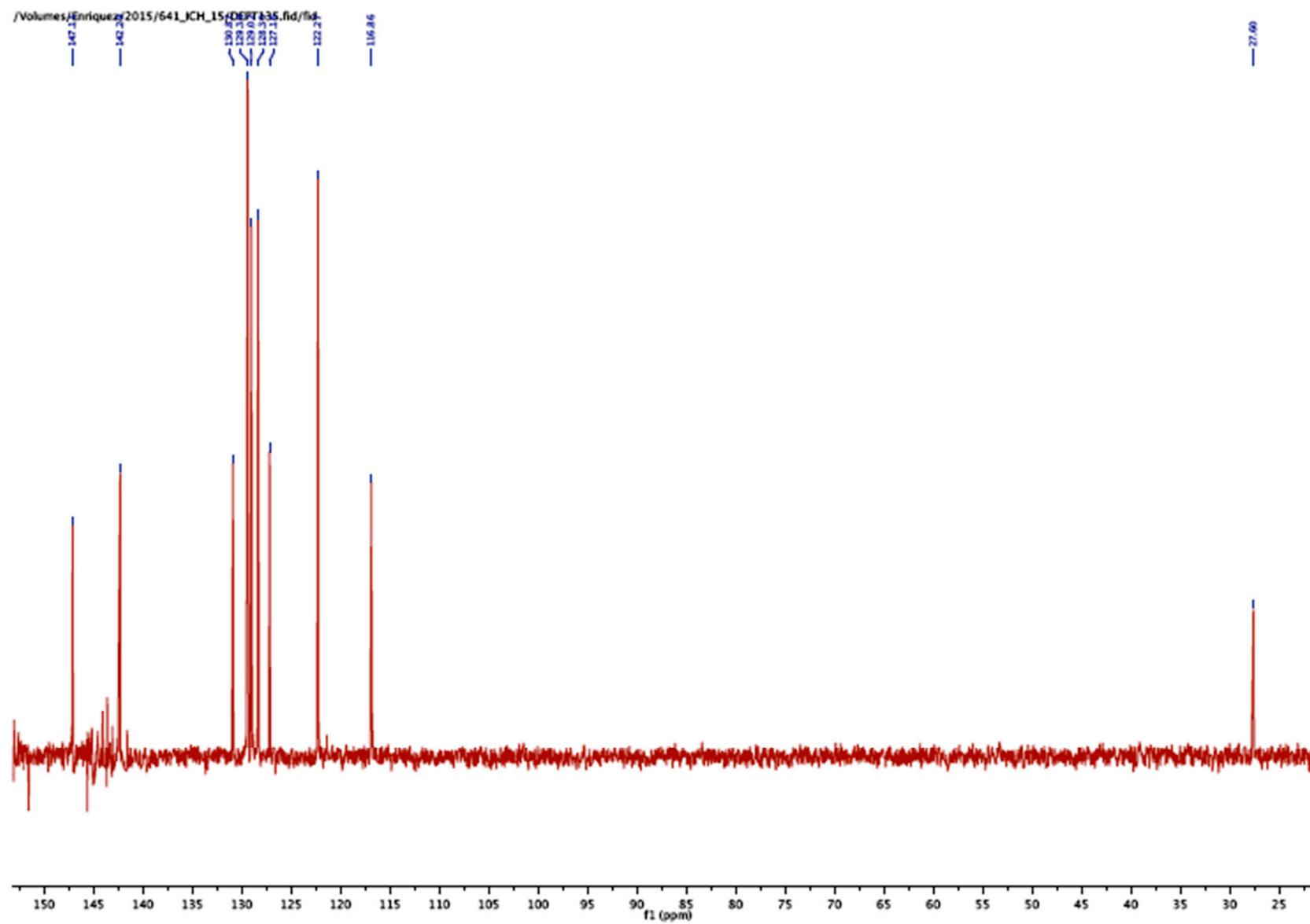
NMR Retro-Curcuminoid 9



NMR Retro-Curcuminoid 9

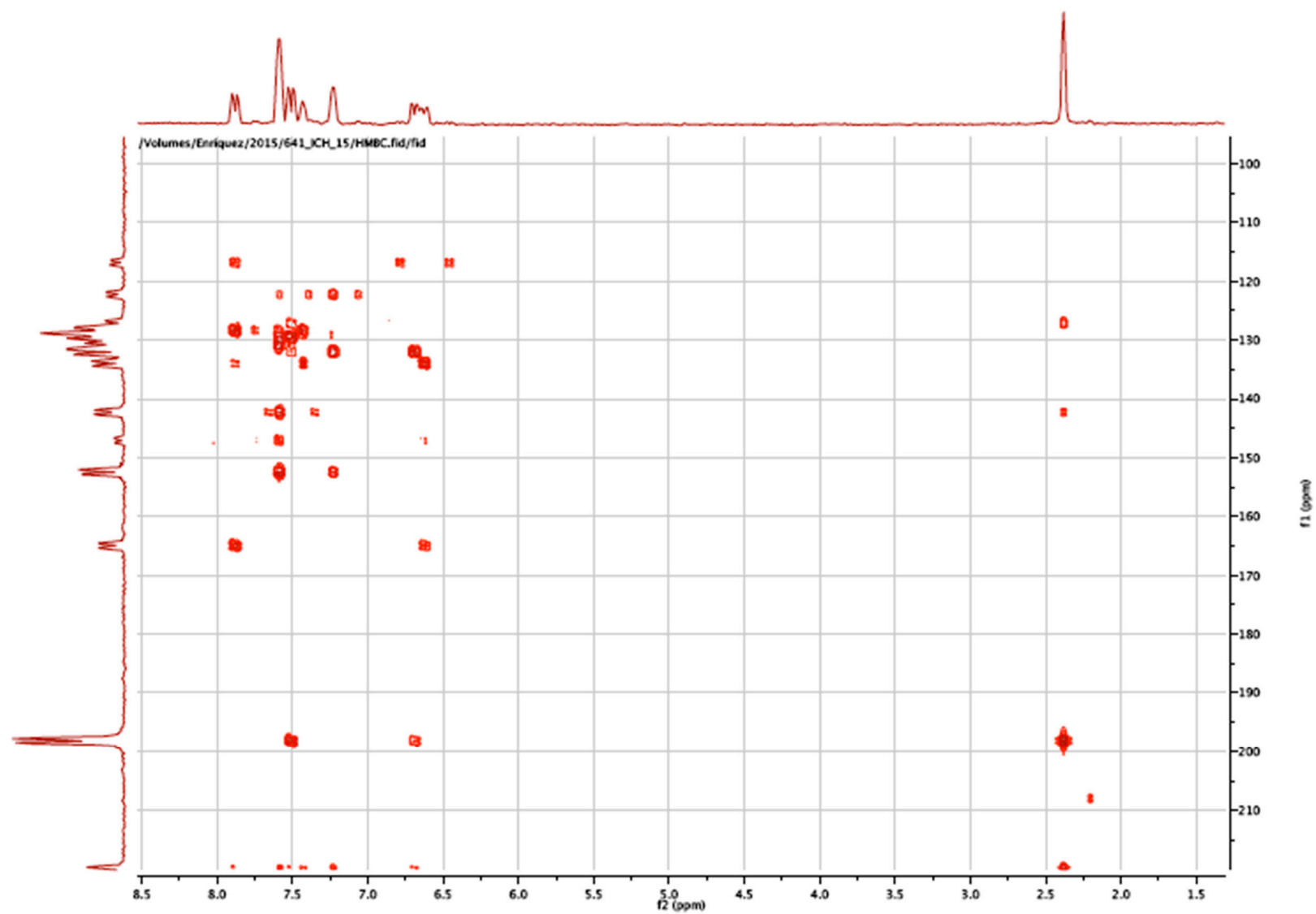


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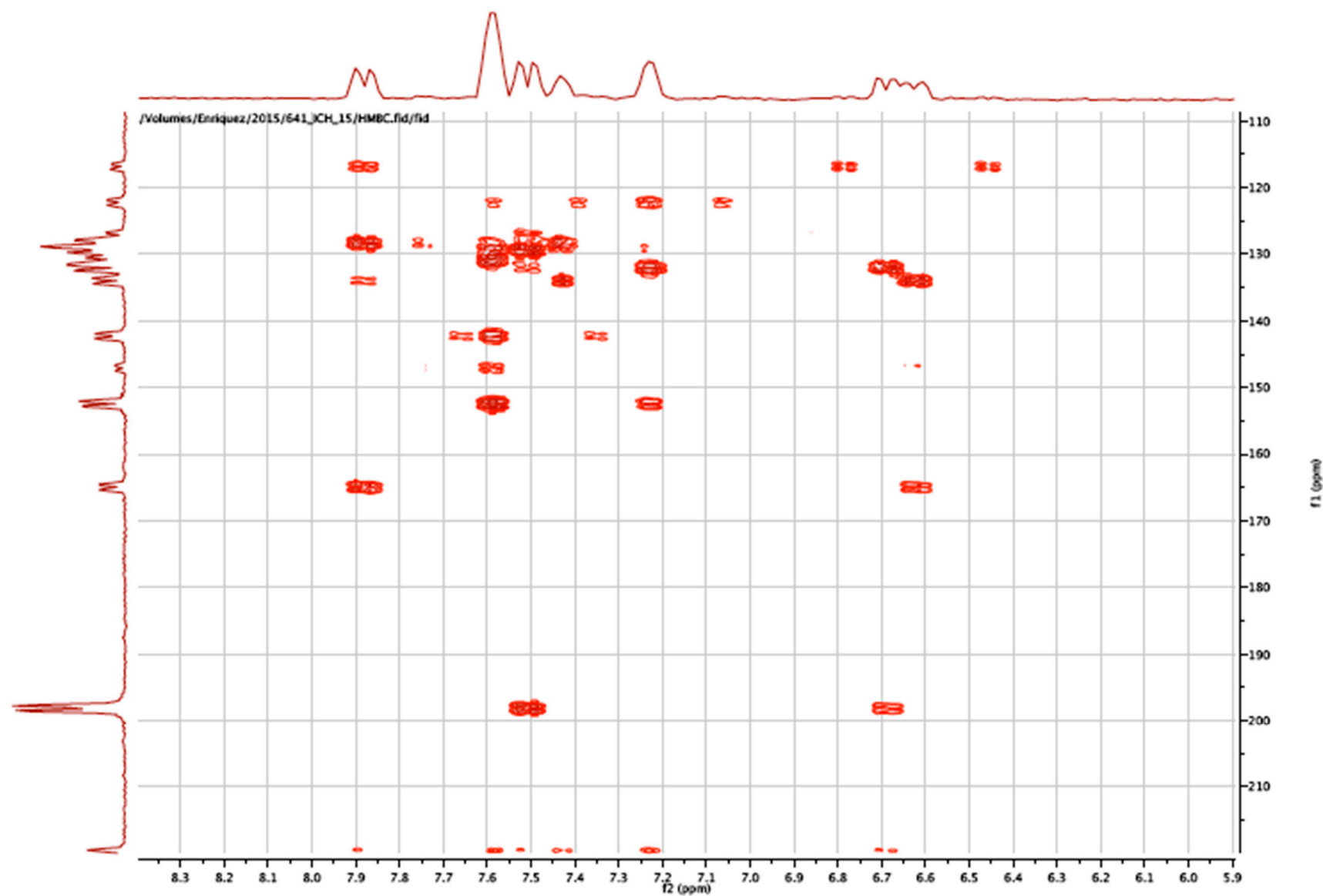


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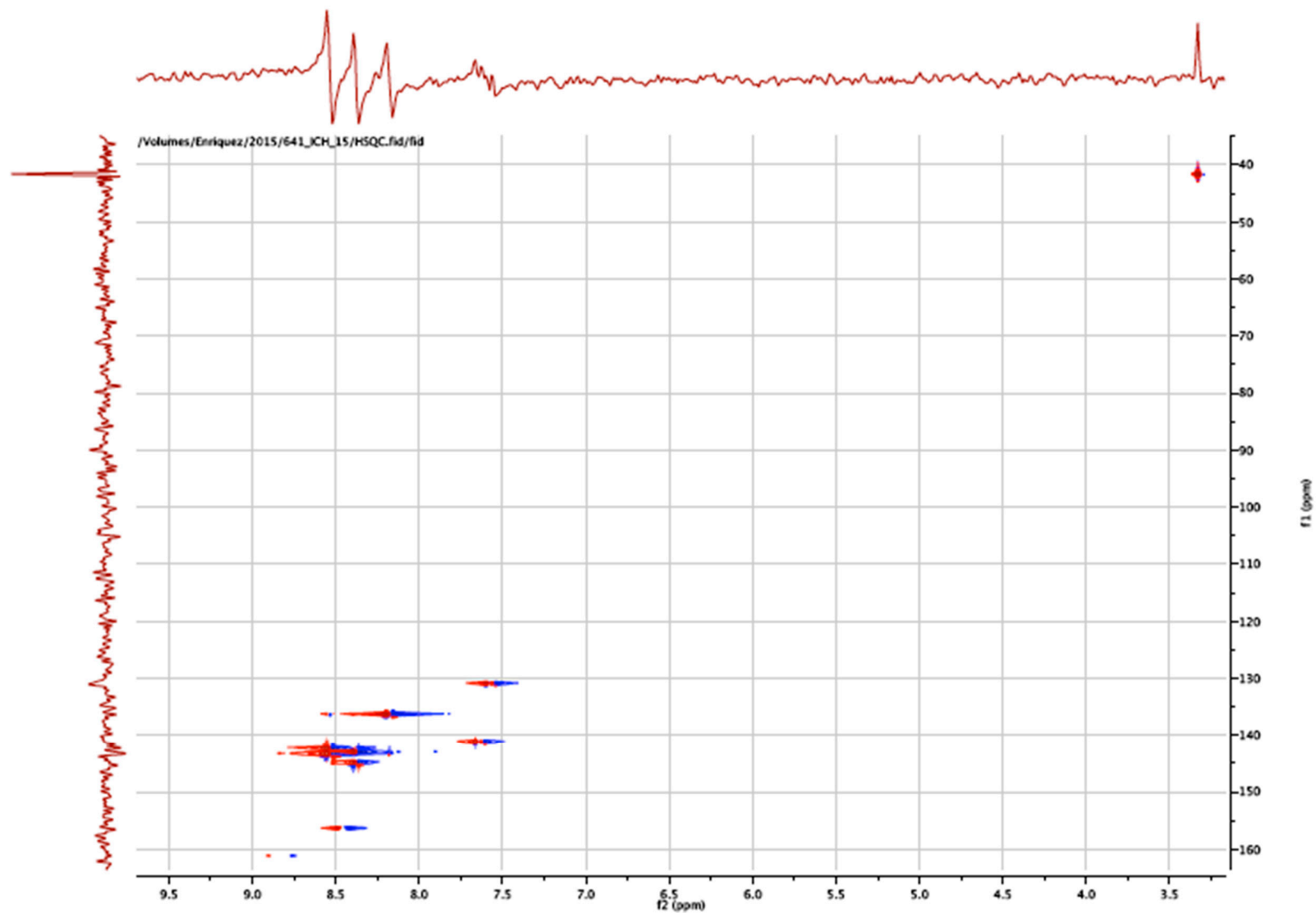
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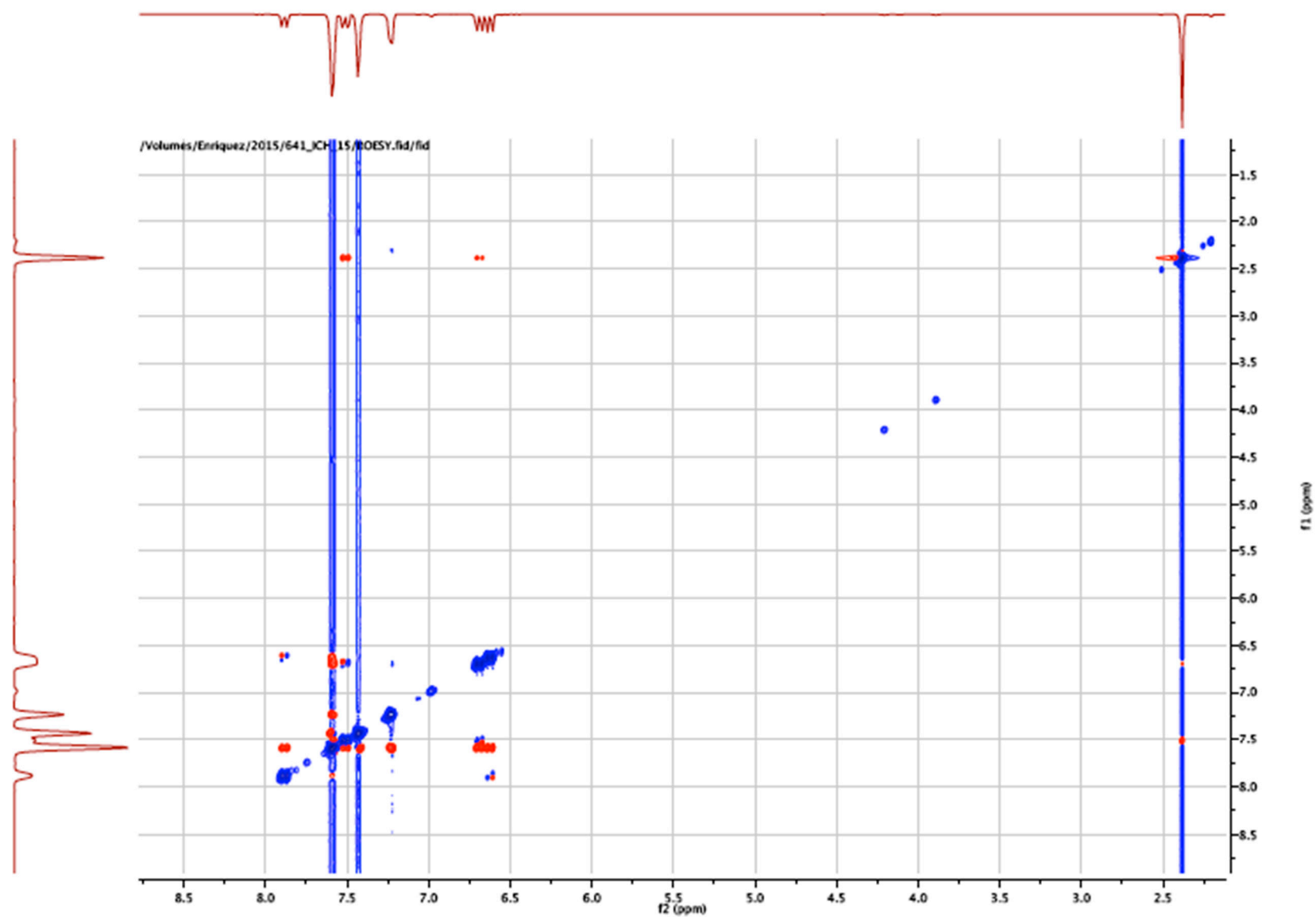
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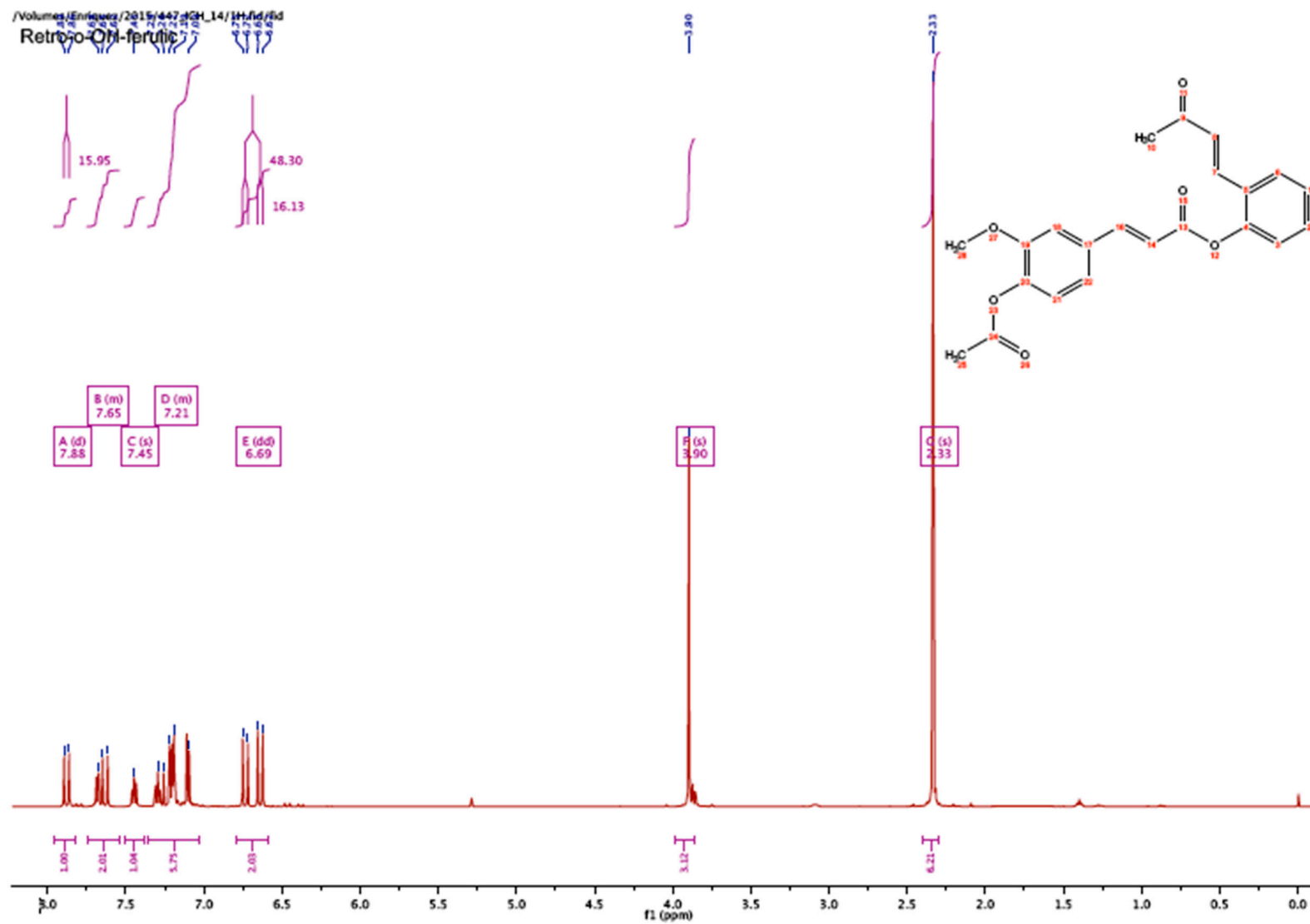
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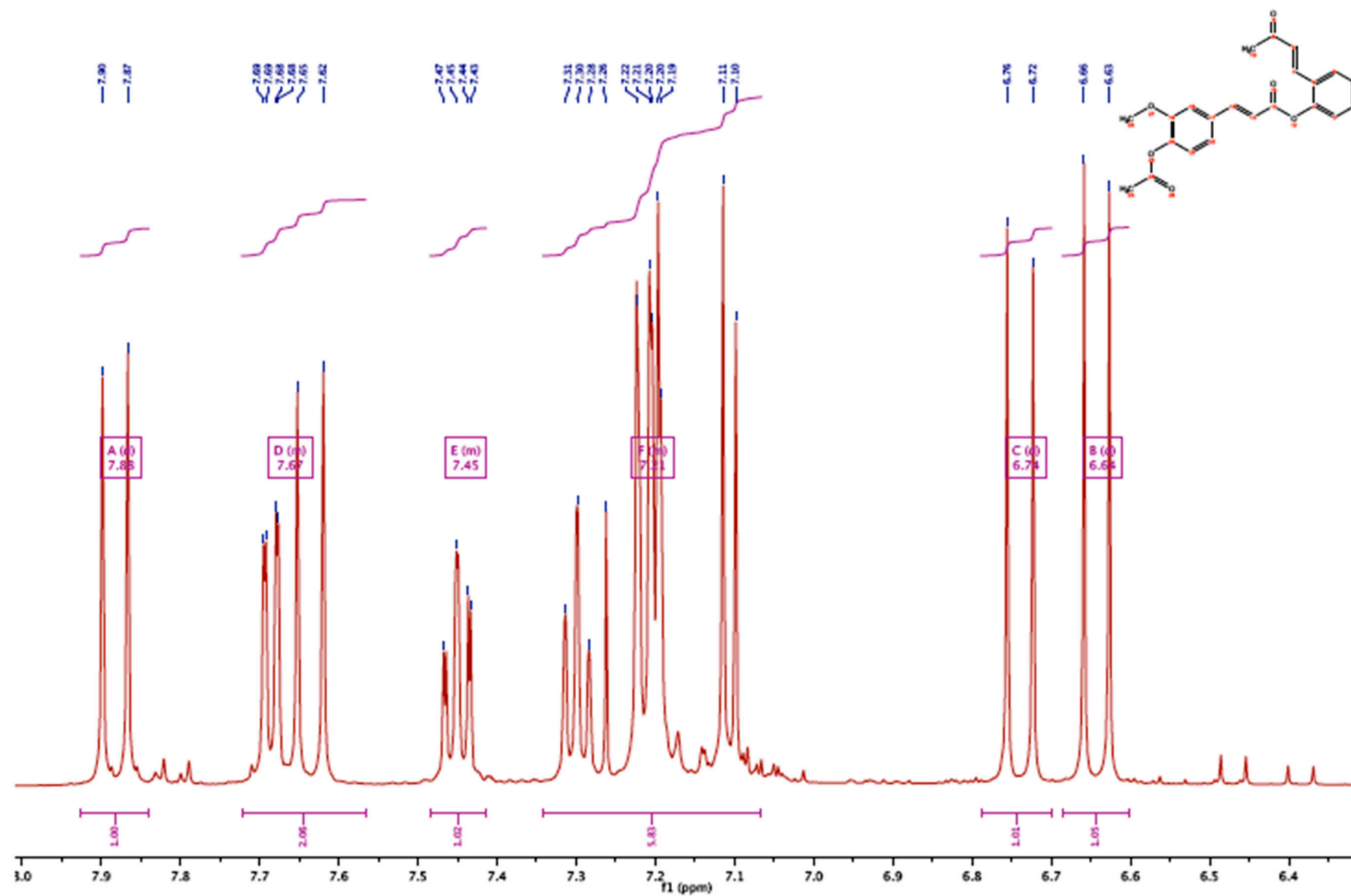
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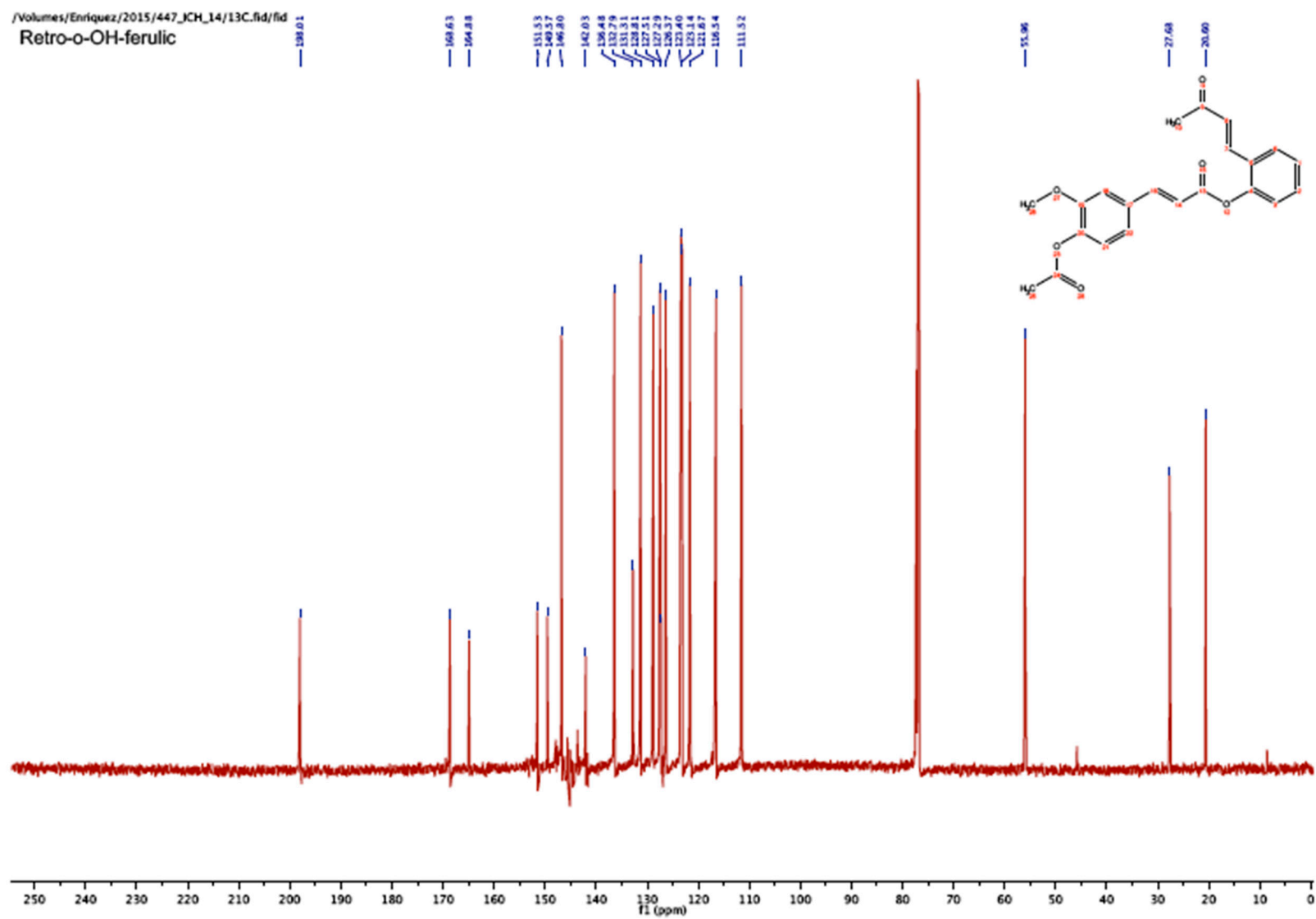
NMR Retro-Curcuminoid 10



NMR Retro-Curcuminoid 10

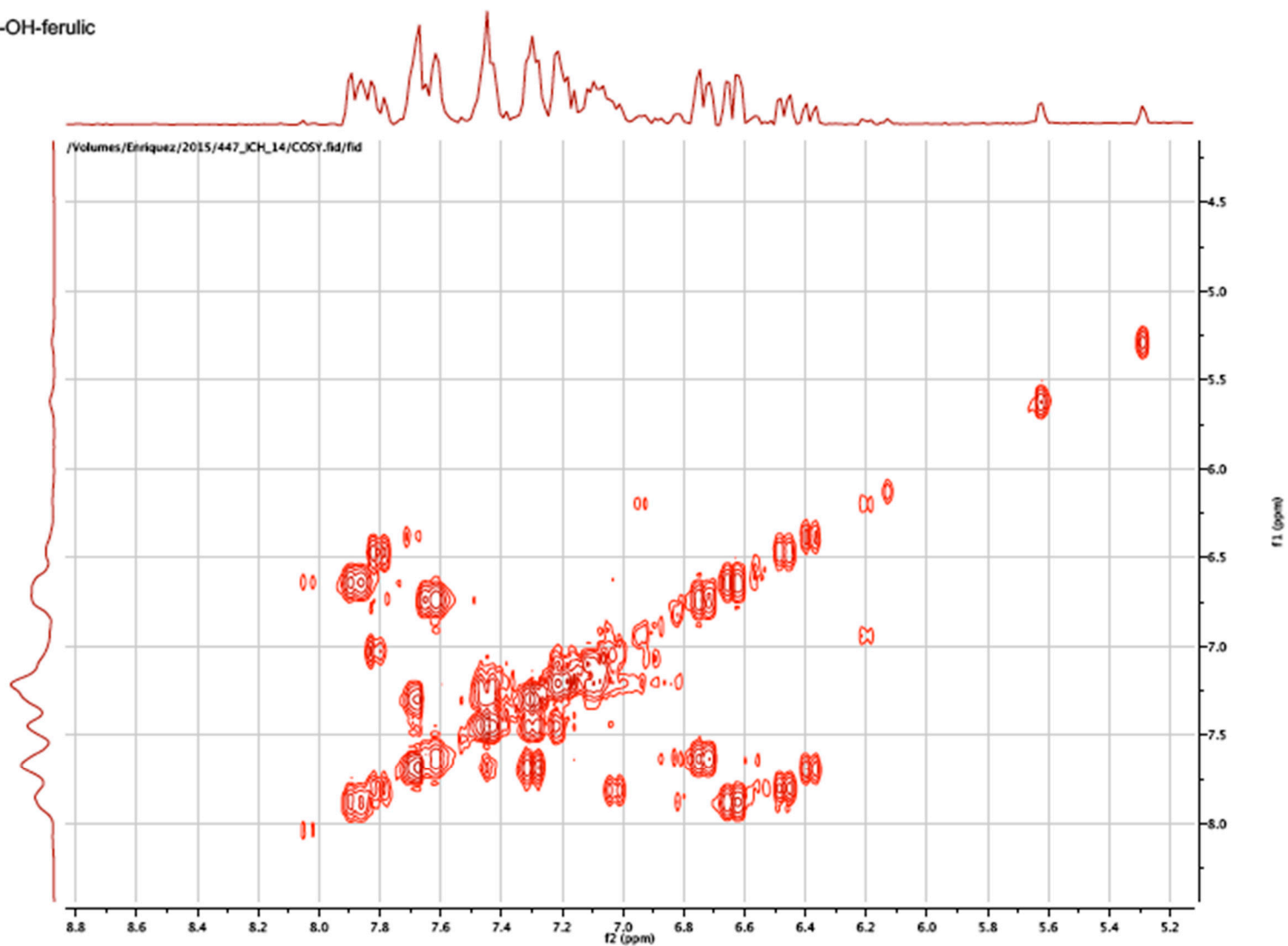


NMR Retro-Curcuminoid 10

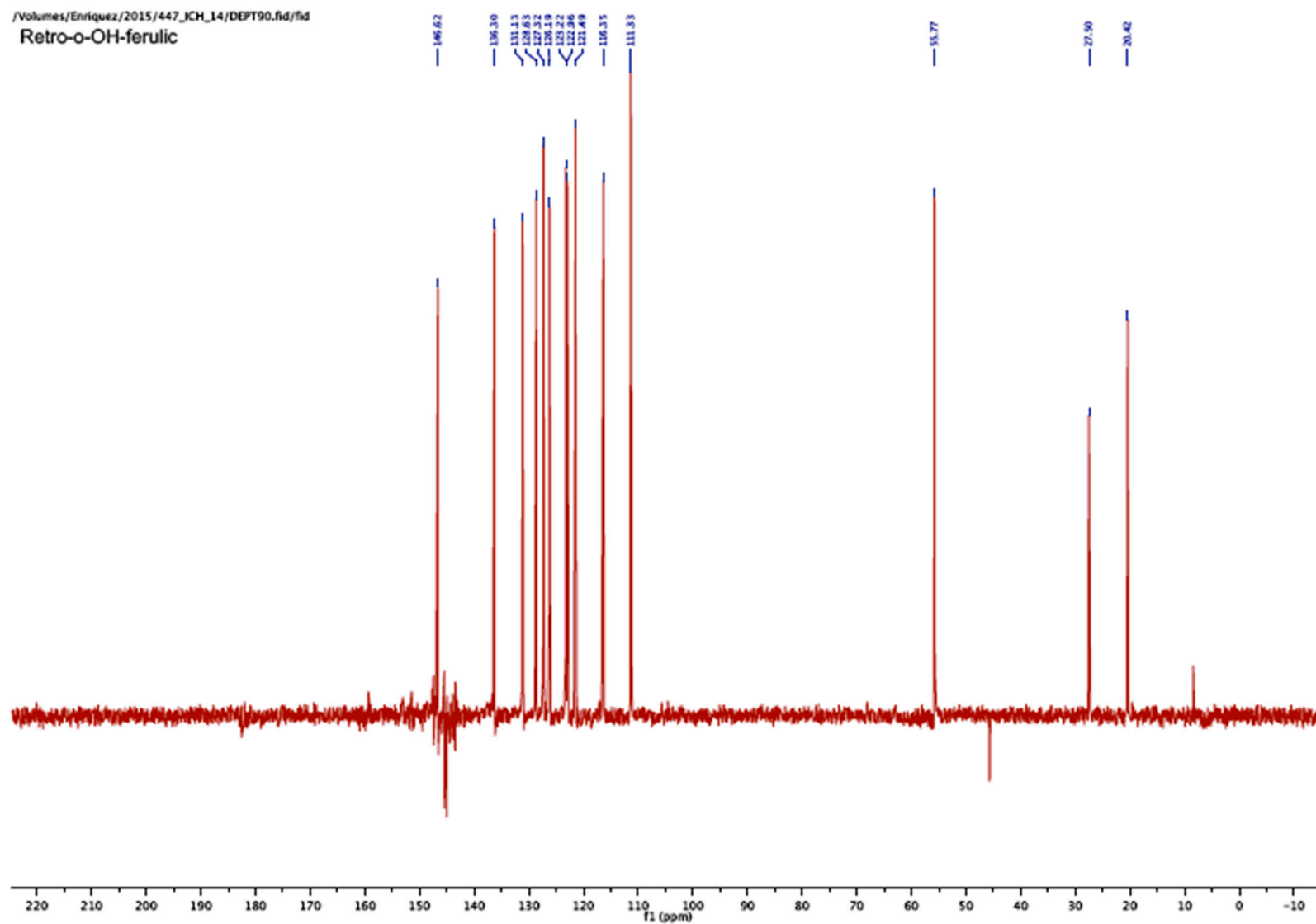


NMR Retro-Curcuminoid 10

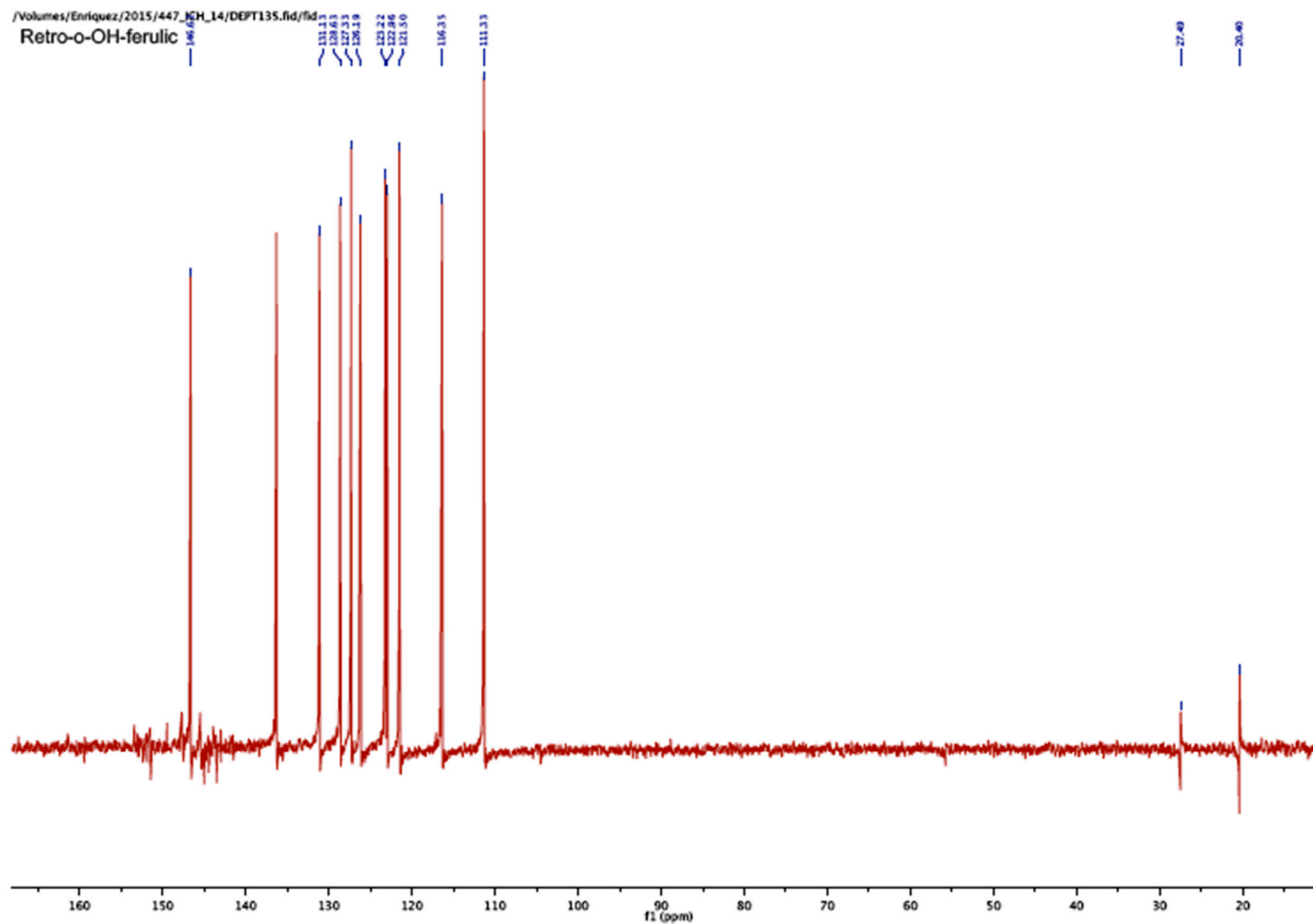
Retro-o-OH-ferulic



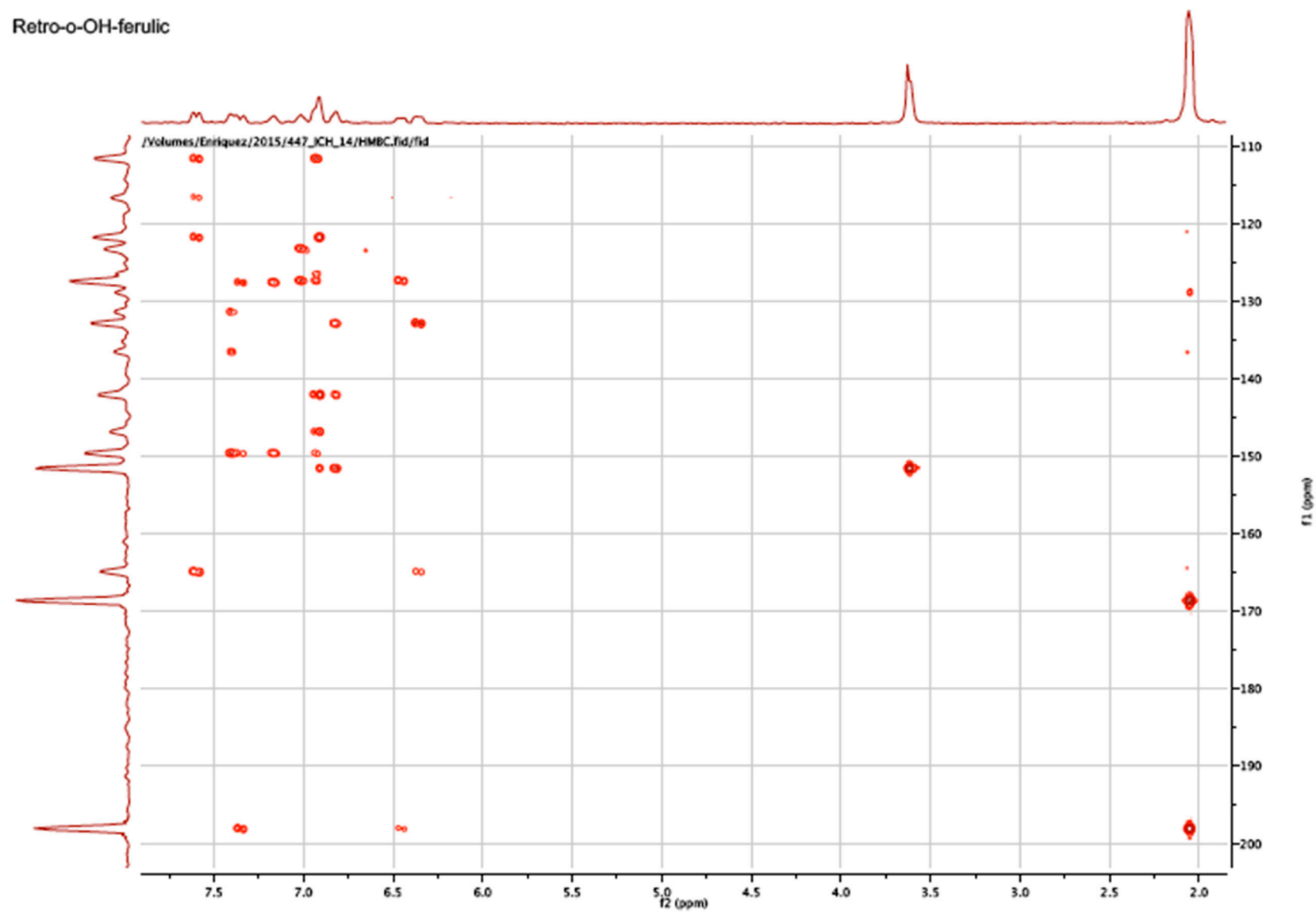
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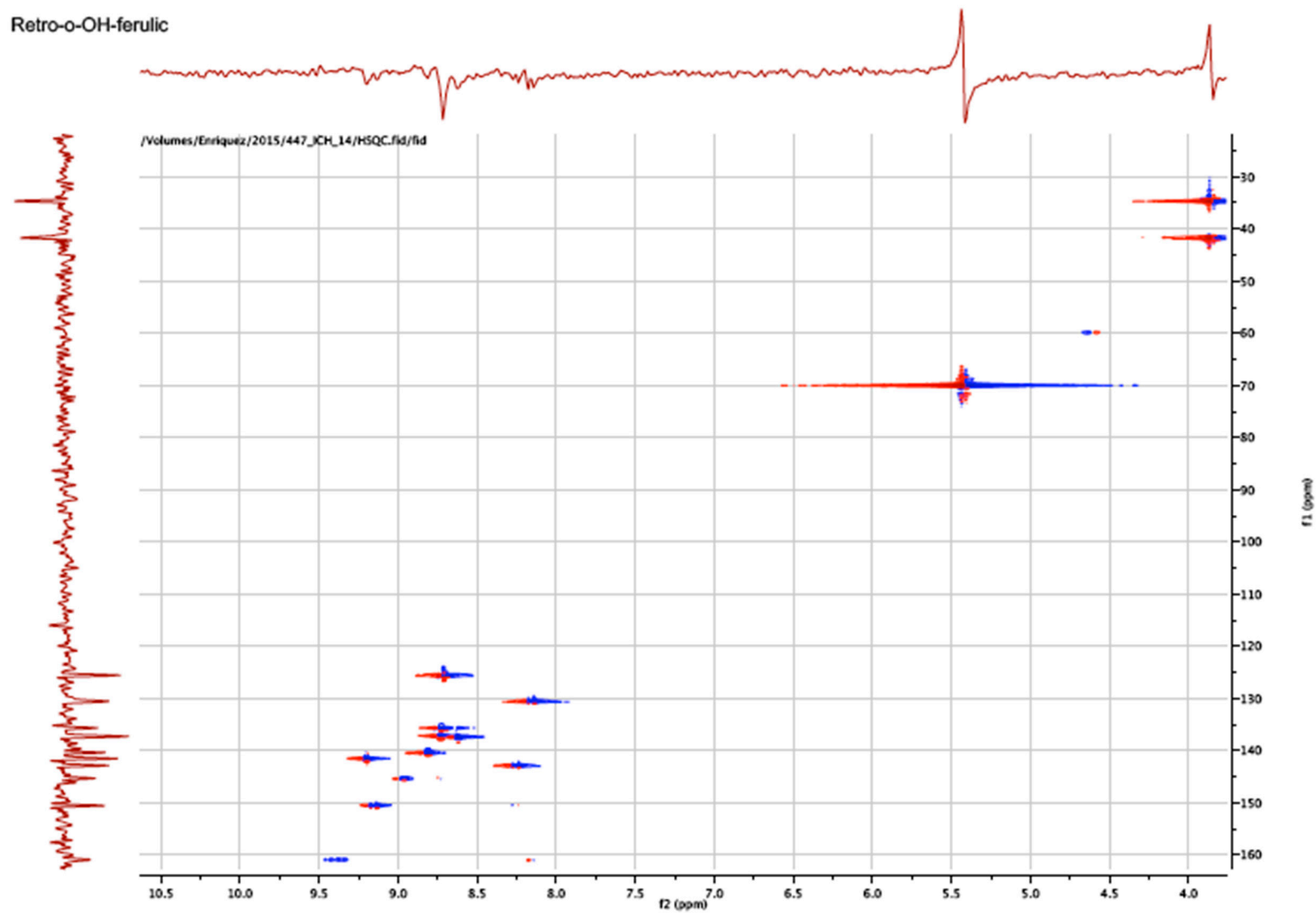
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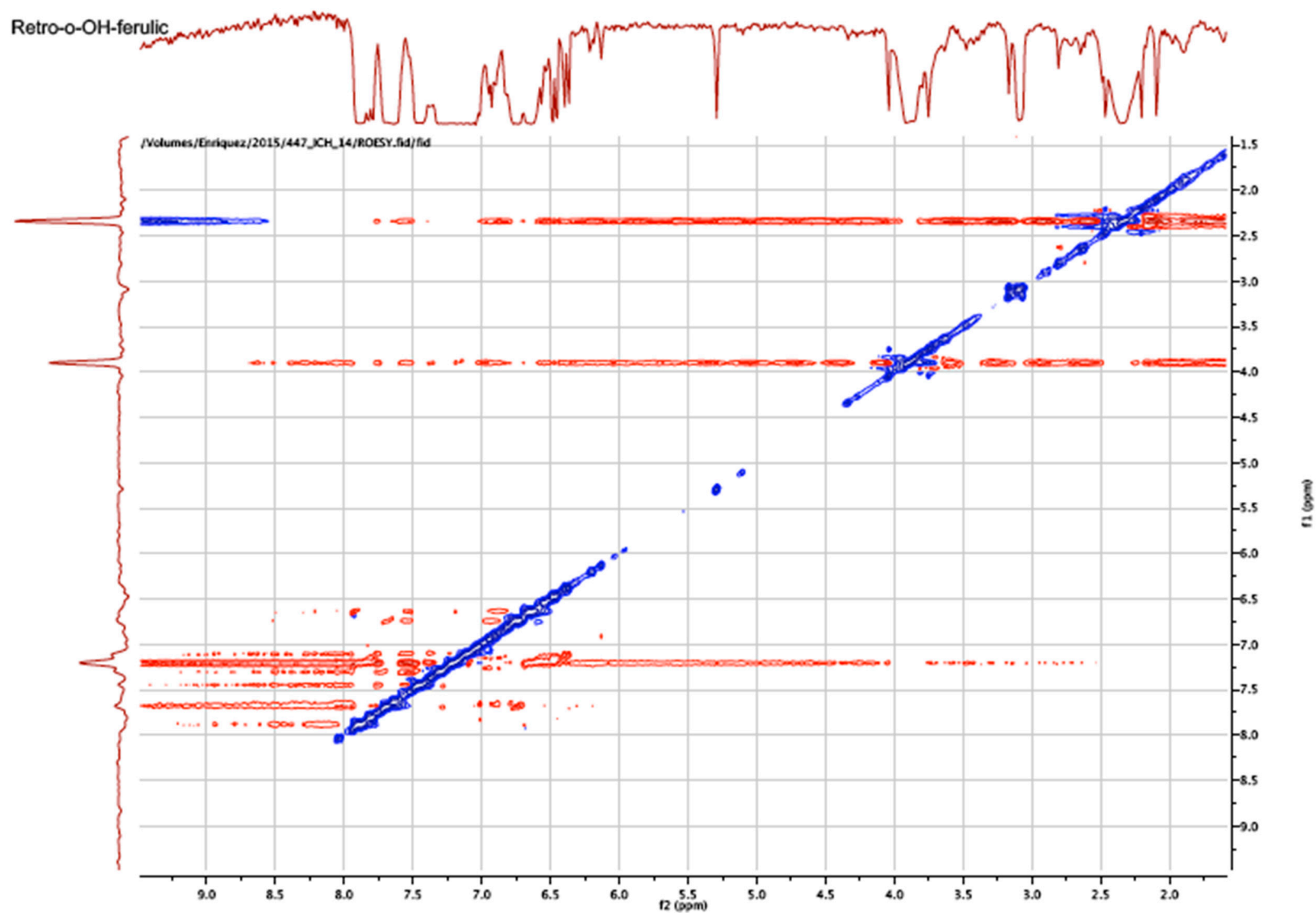
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NMR Retro-Curcuminoid 10

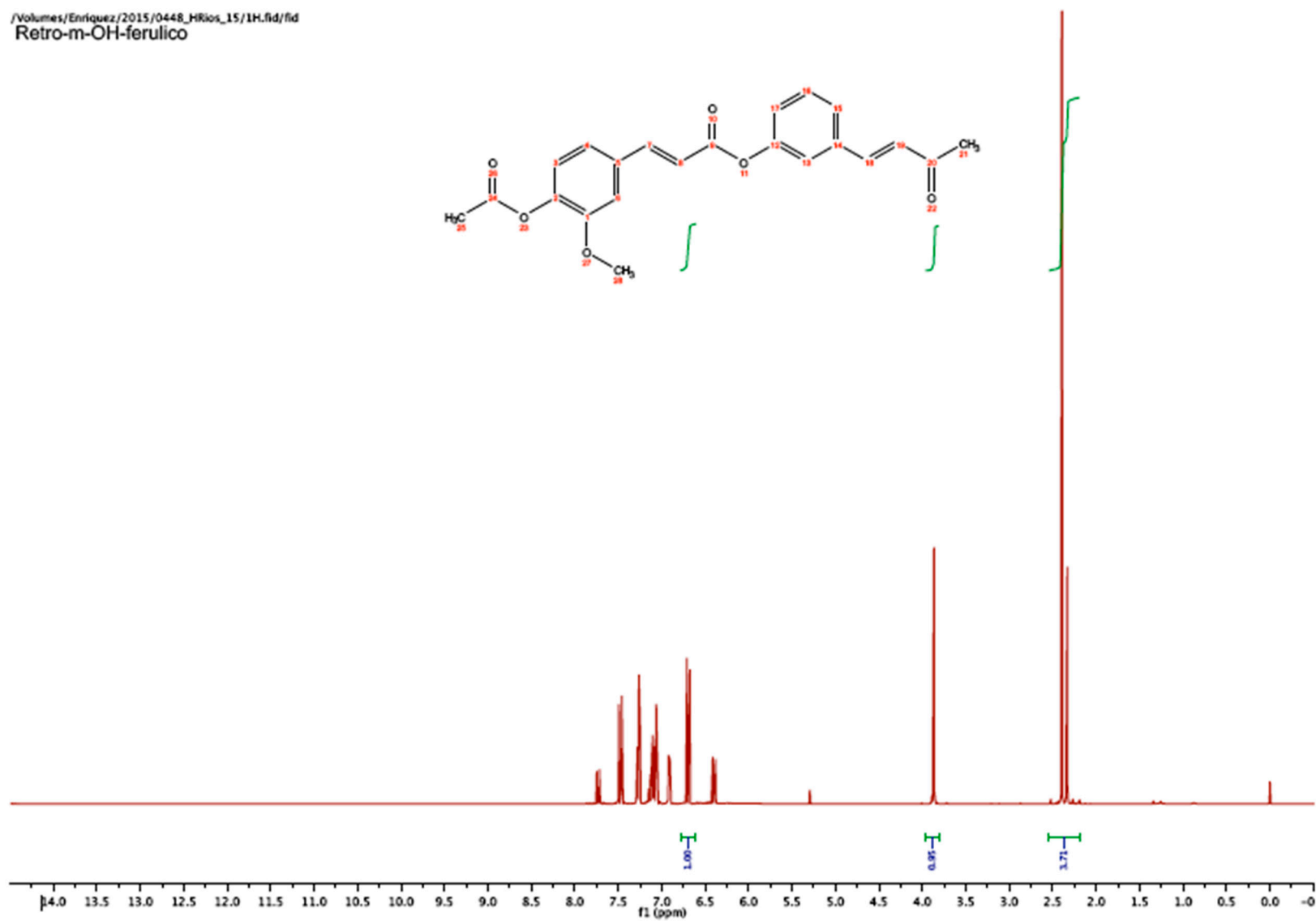


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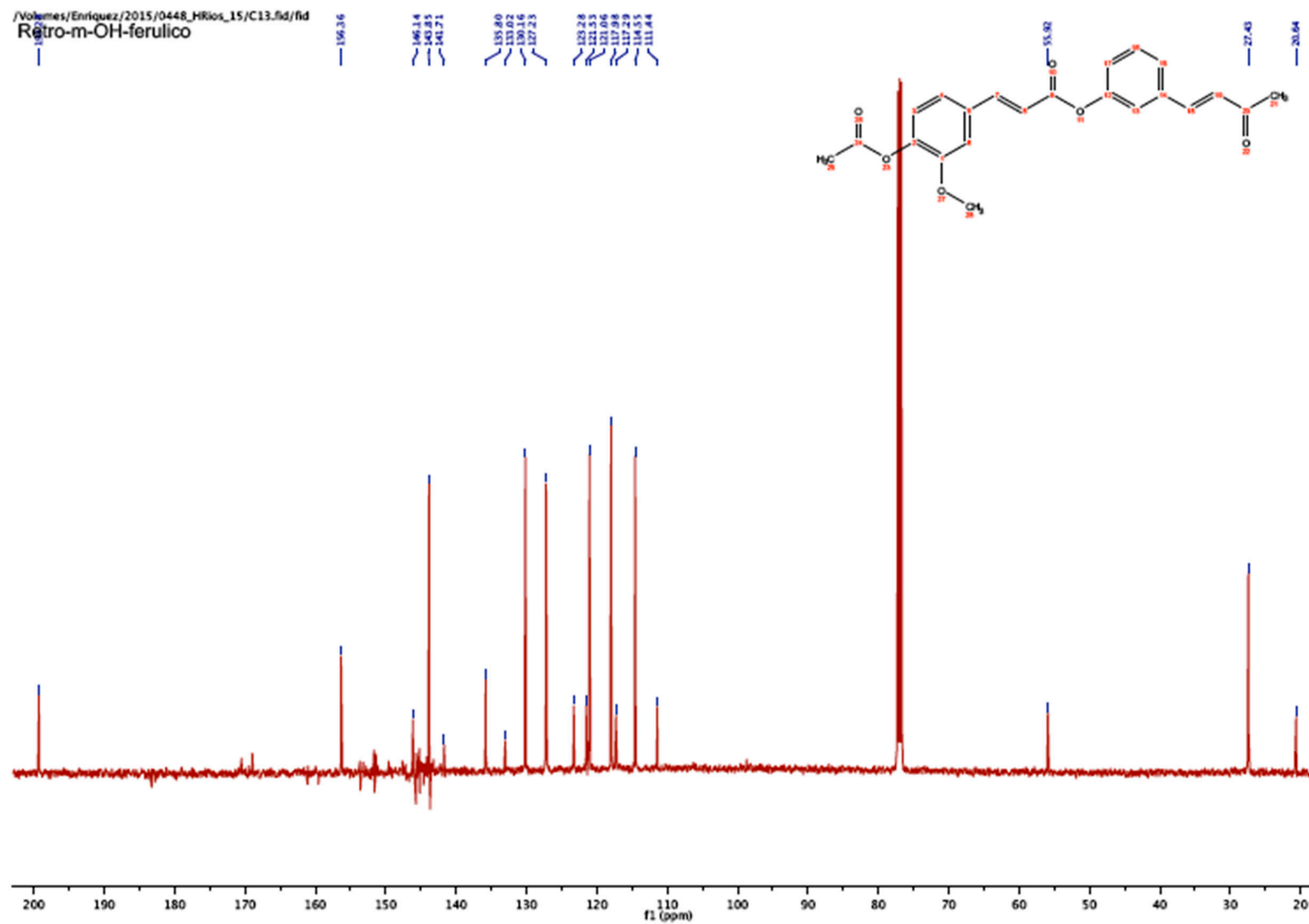


NMR Retro-Curcuminoid 11

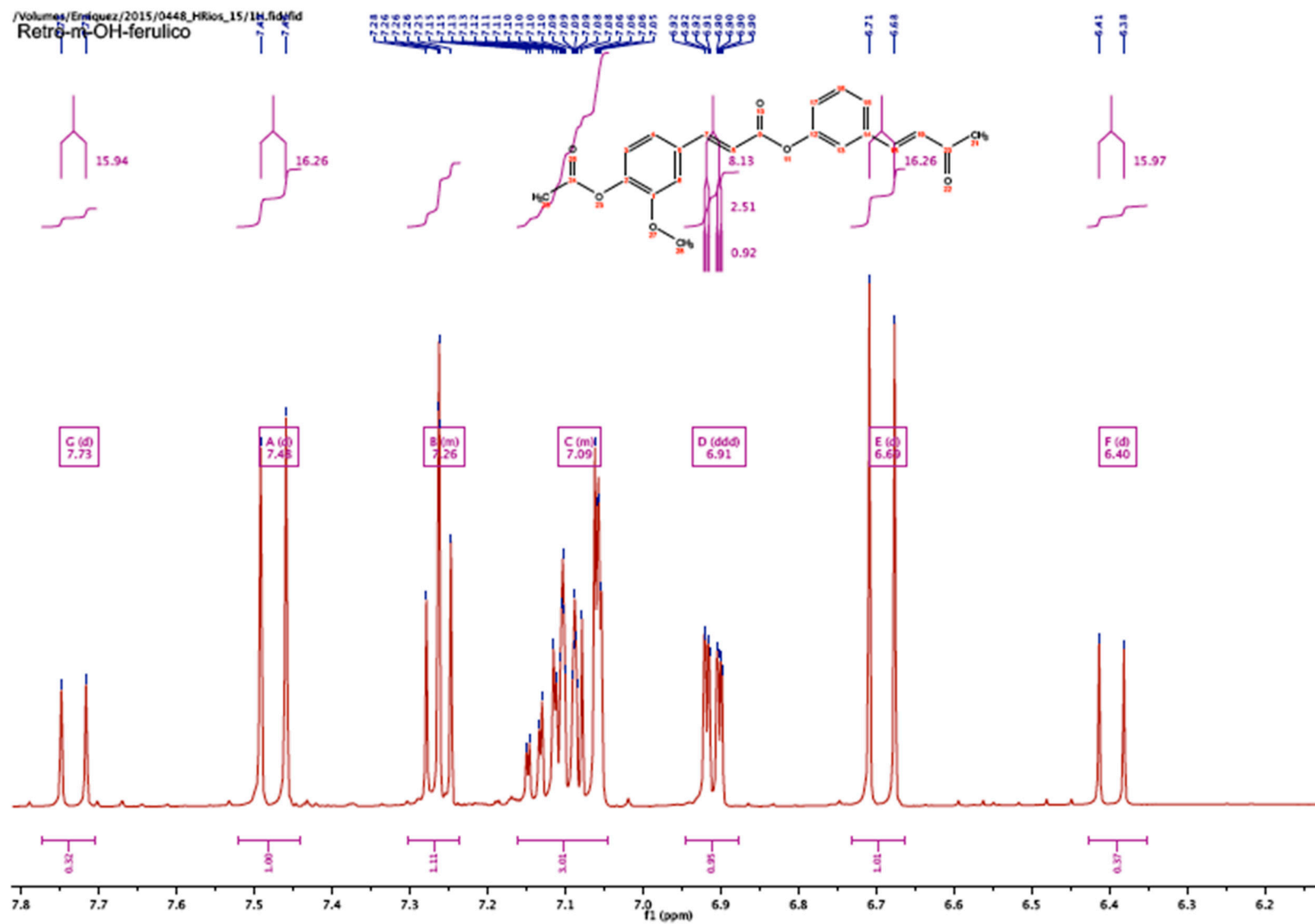
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Retro-m-OH-ferulico



NMR Retro-Curcuminoid 11

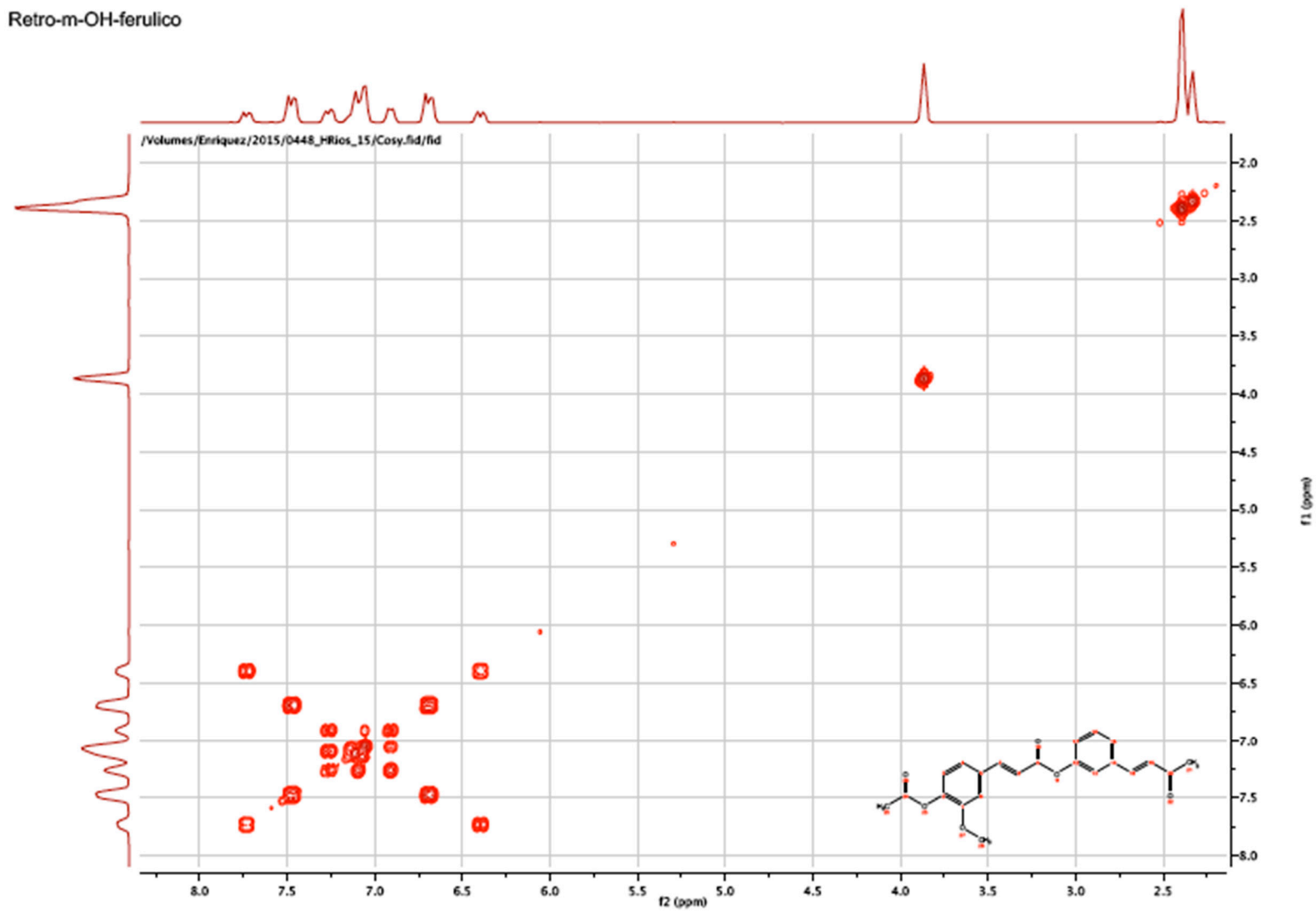


NMR Retro-Curcuminoid 11

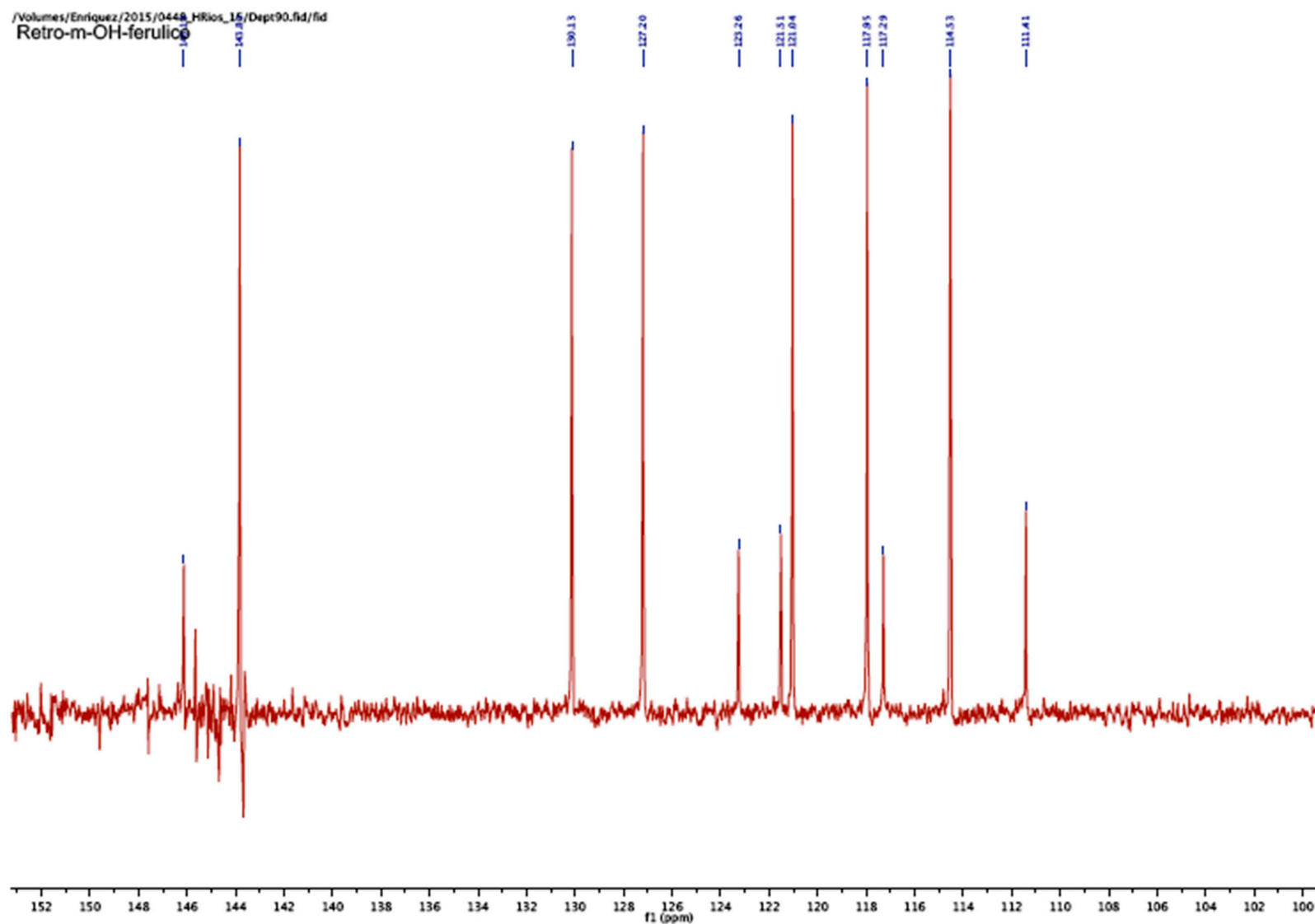


NMR Retro-Curcuminoid 11

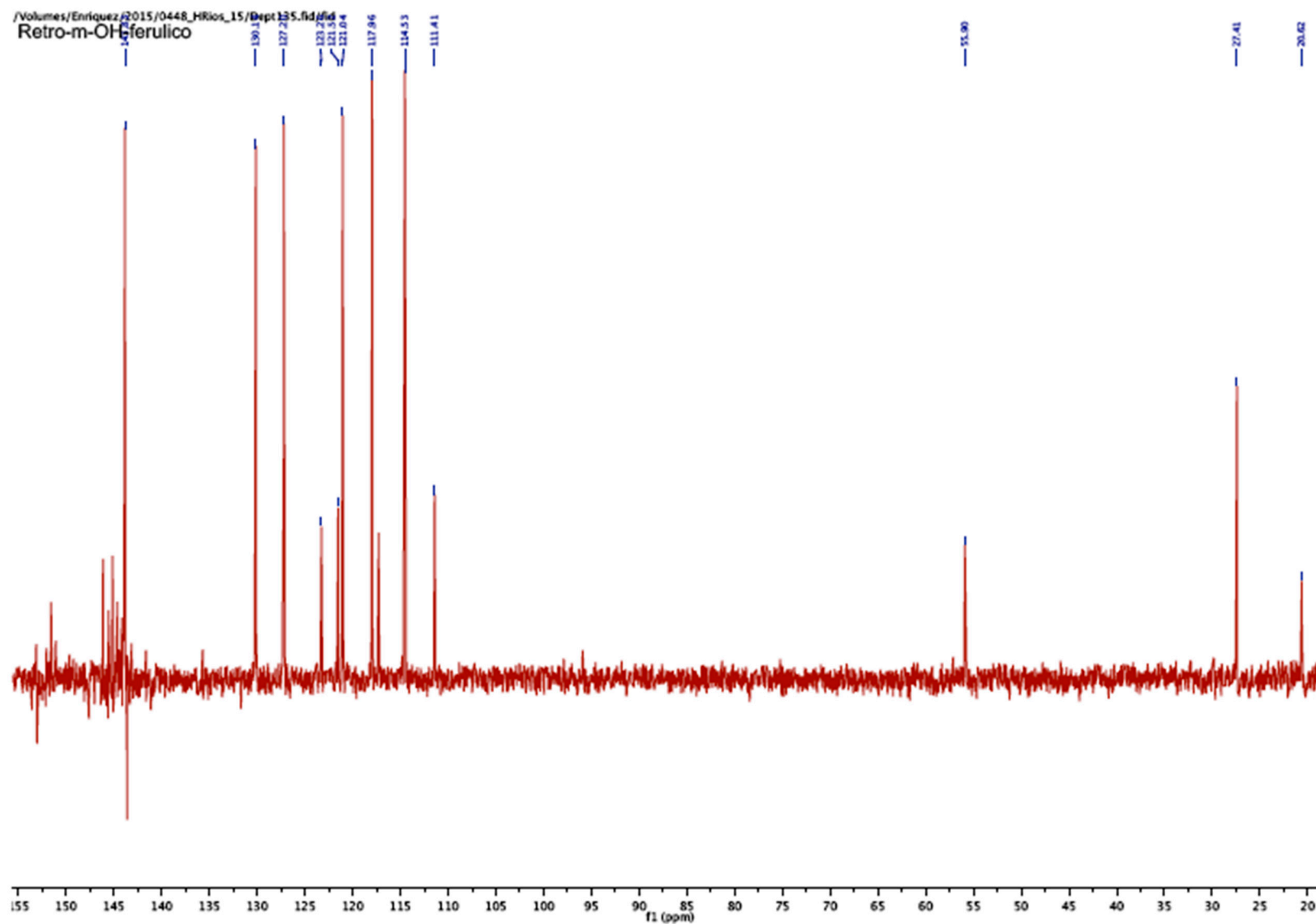
Retro-m-OH-ferulico



NMR Retro-Curcuminoid 11

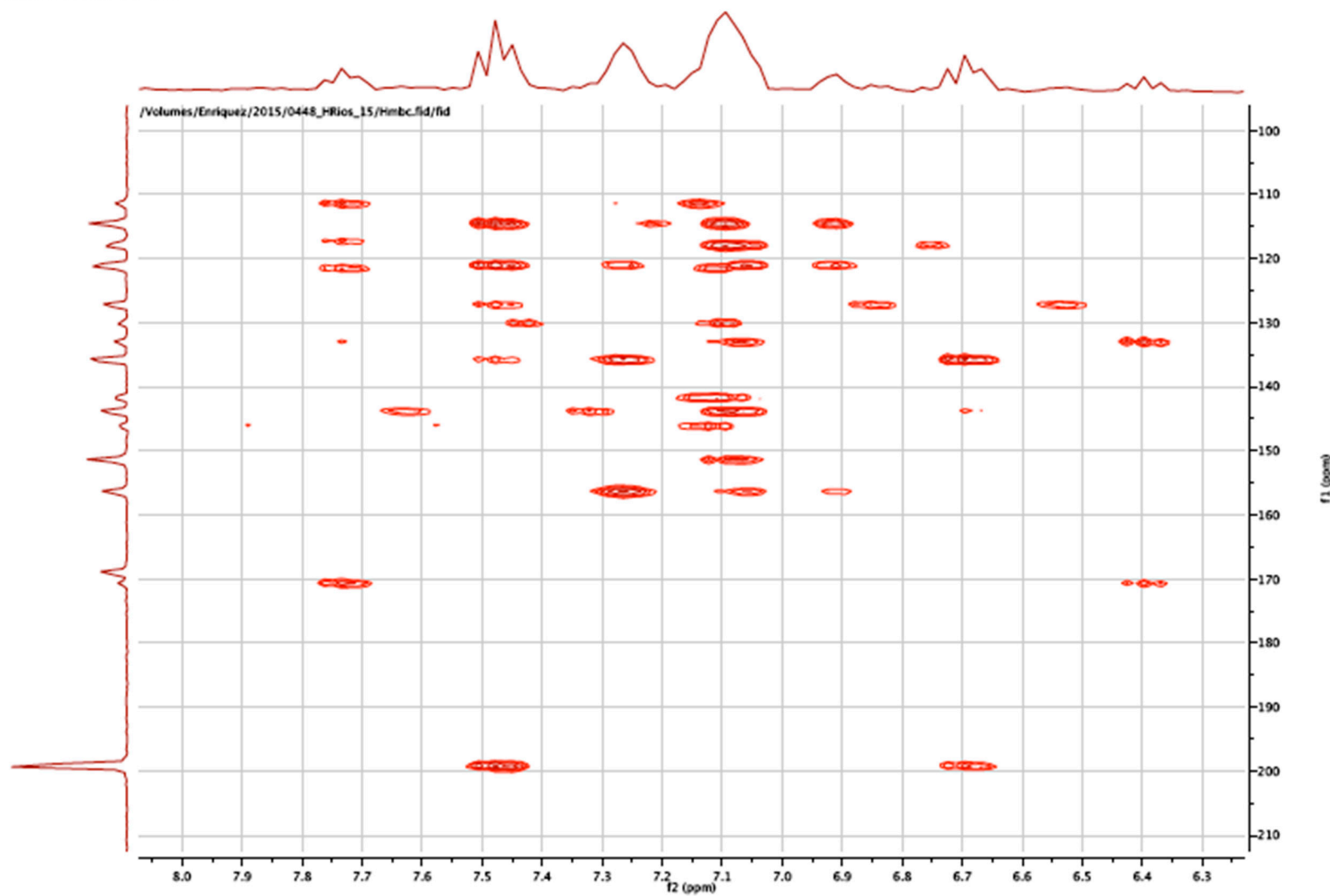


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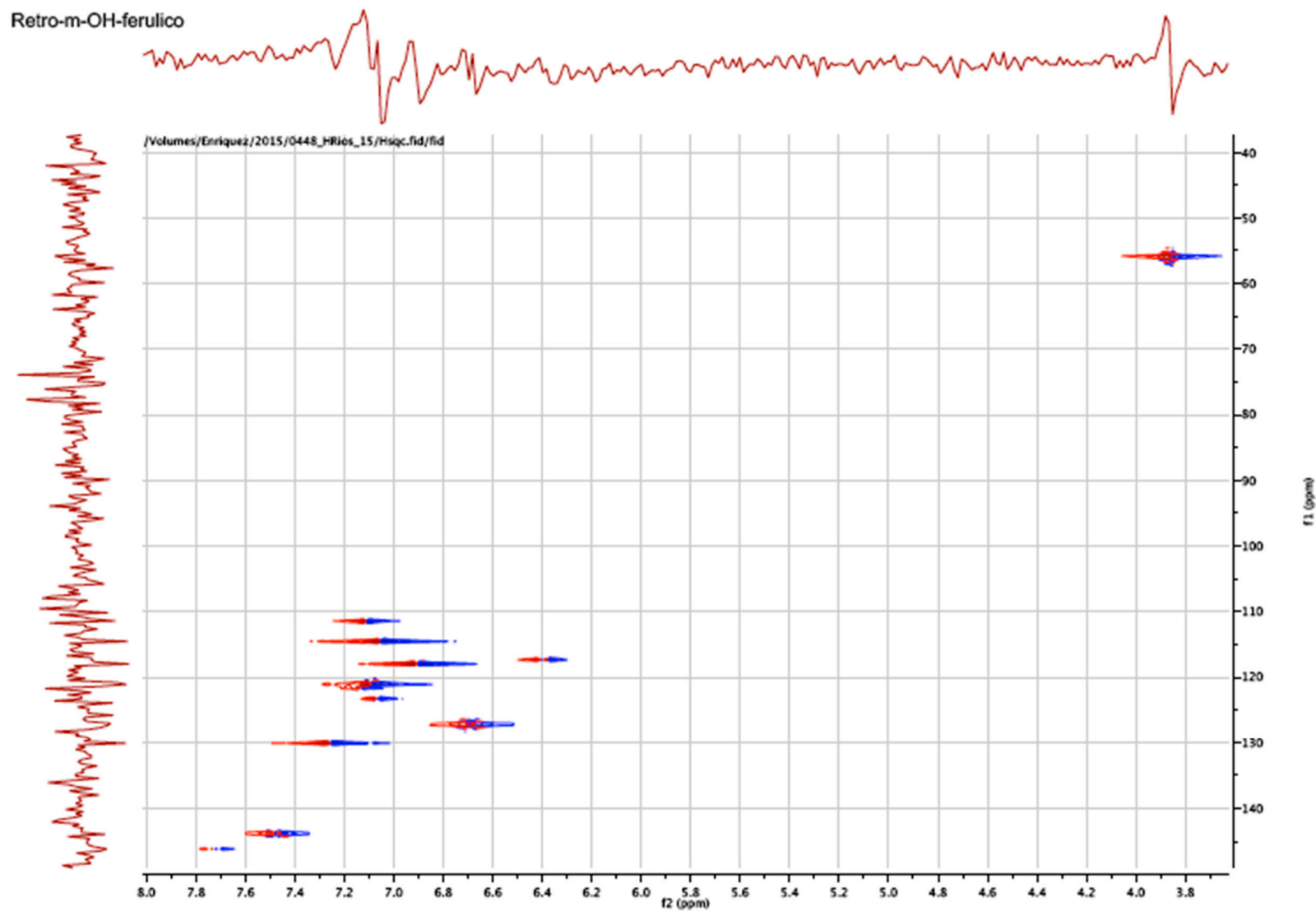


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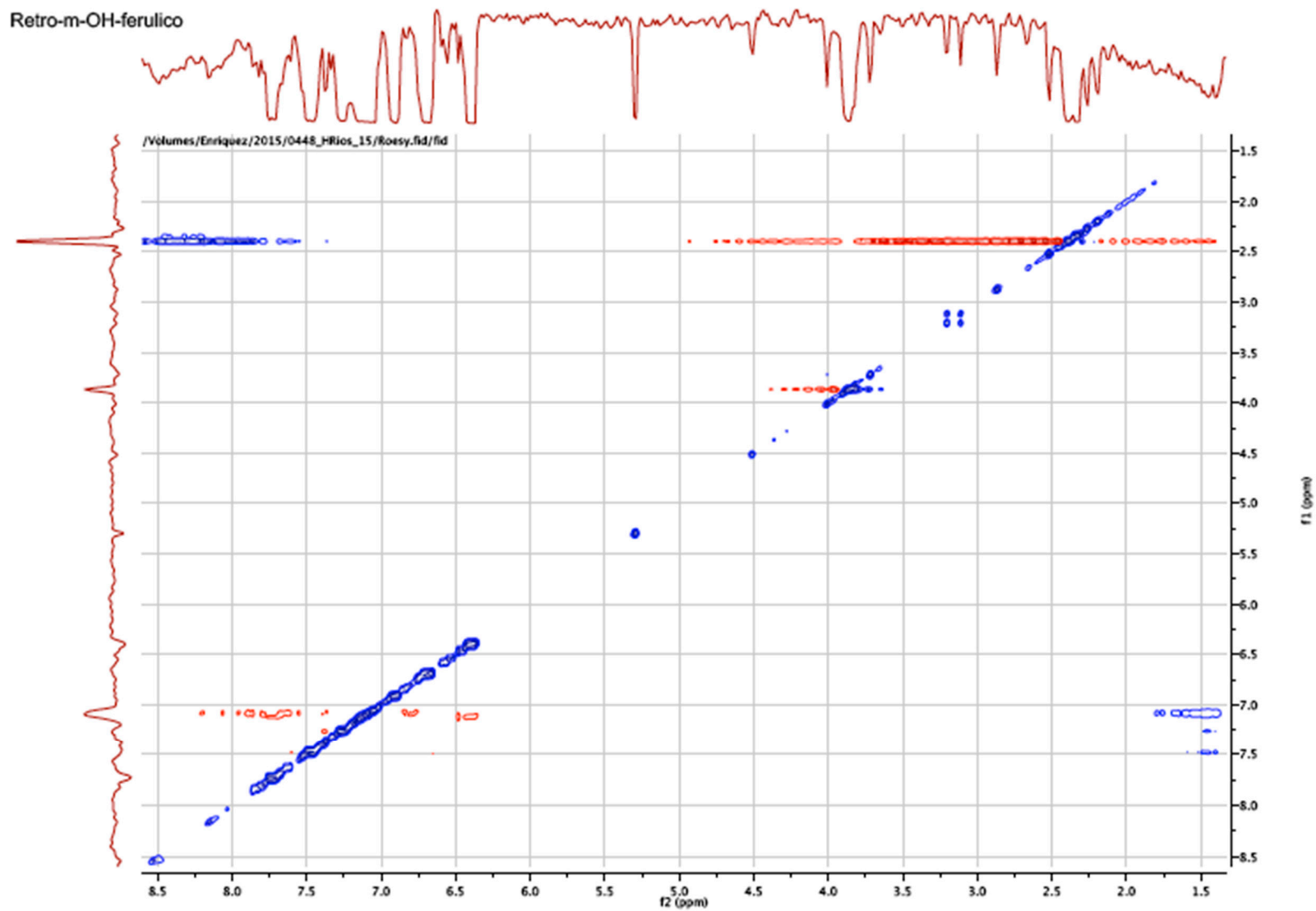
Retro-m-OH-ferulico



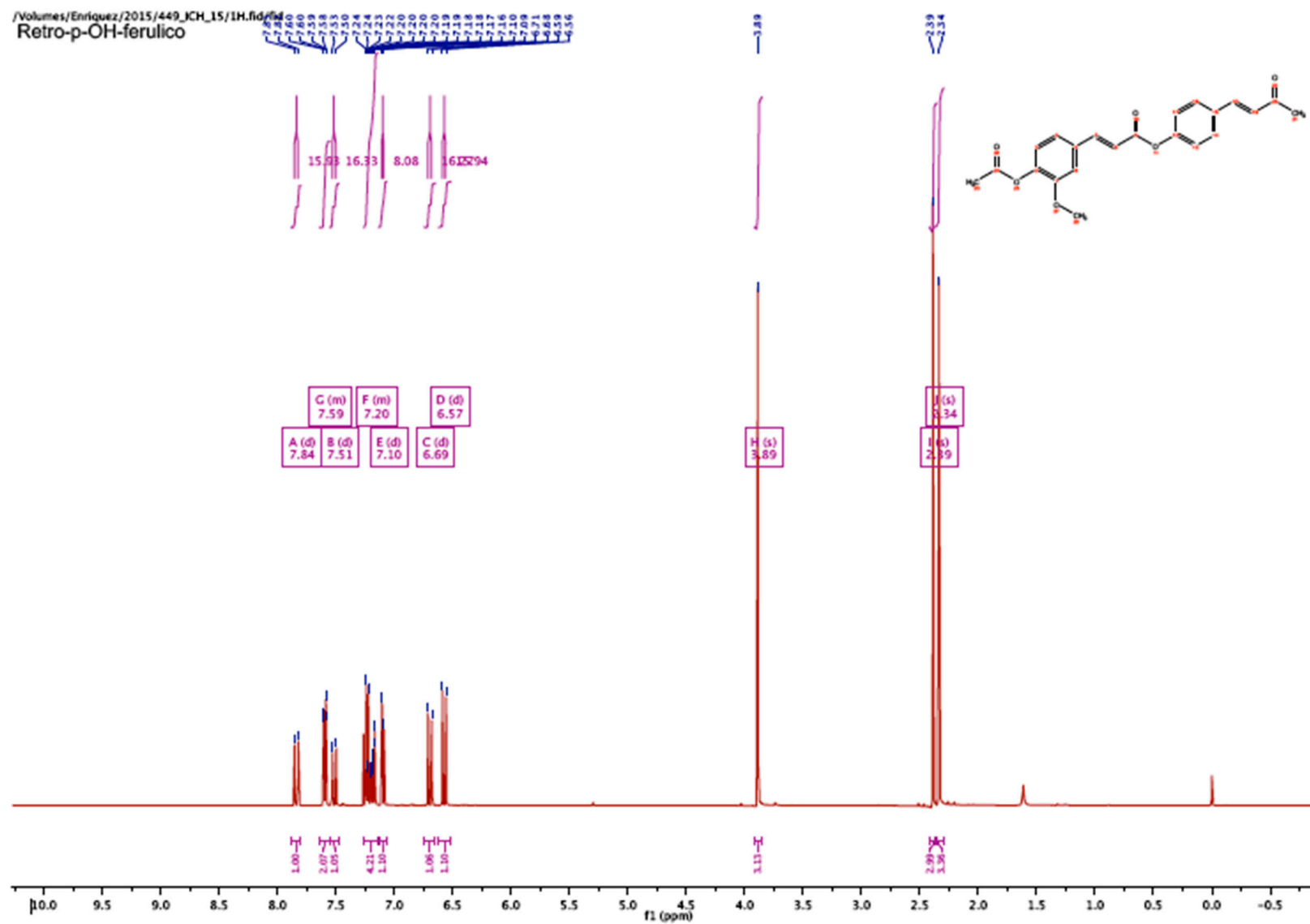
NMR Retro-Curcuminoid 11



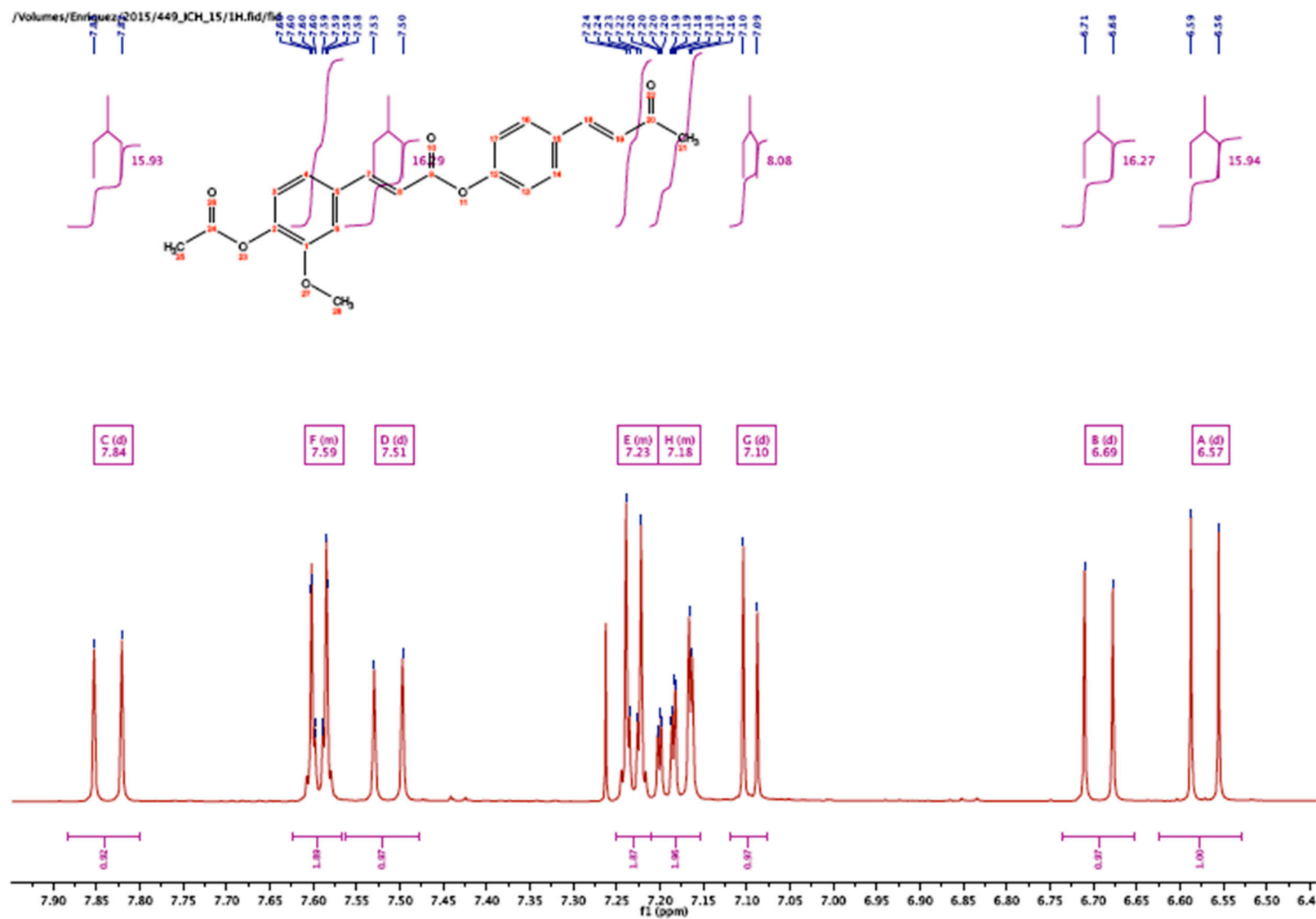
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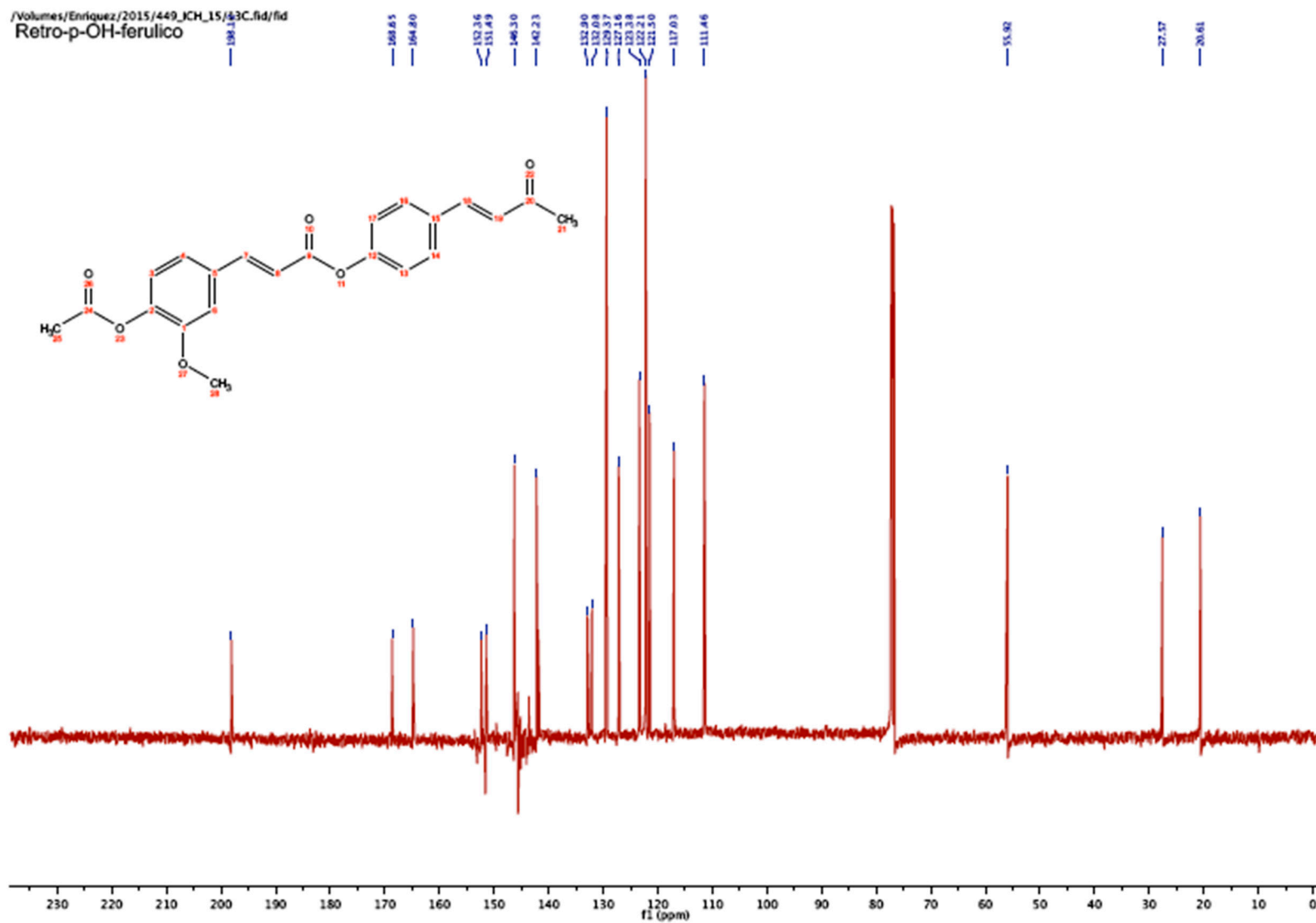
NMR Retro-Curcuminoid 12



NMR Retro-Curcuminoid 12

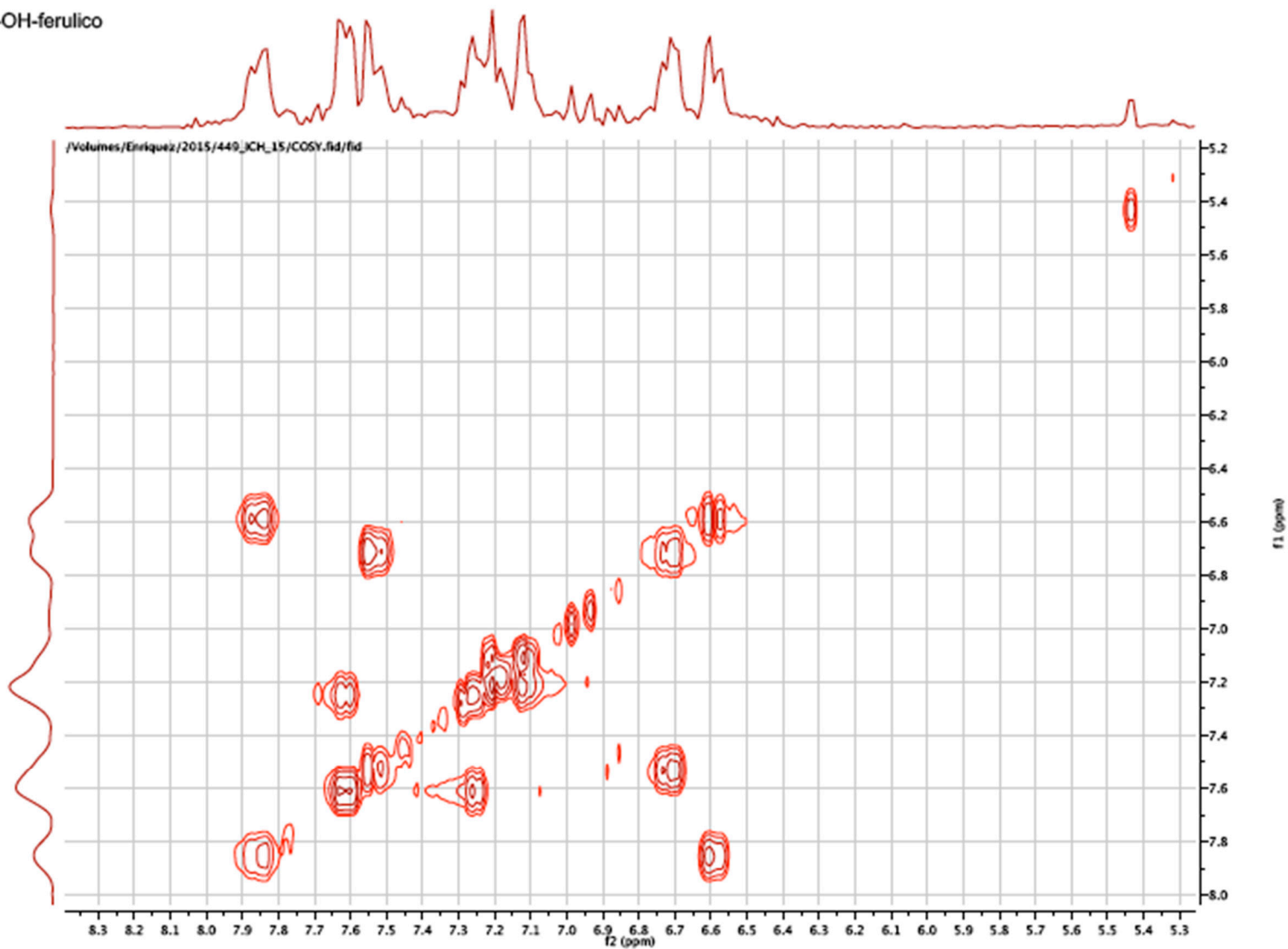


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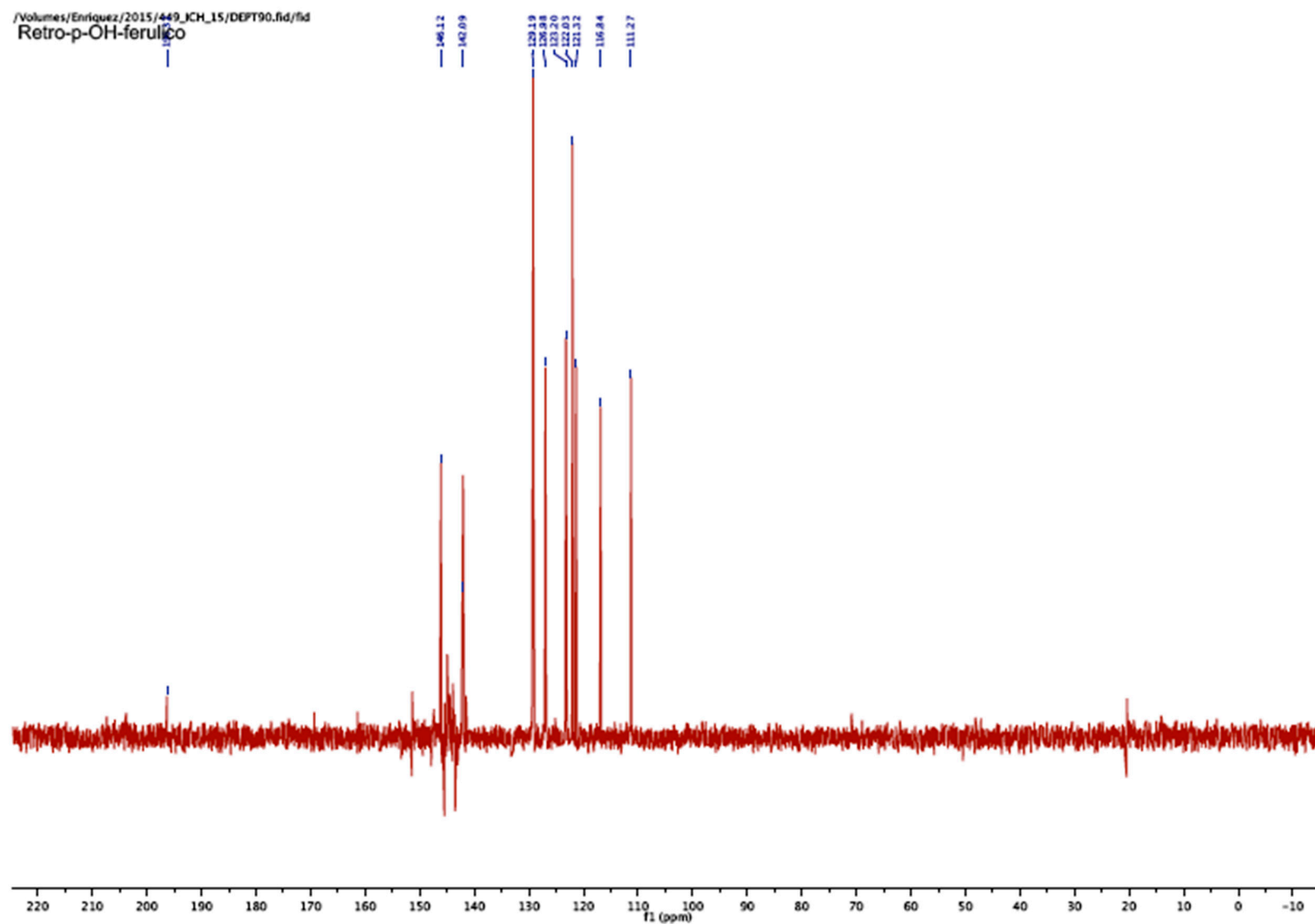


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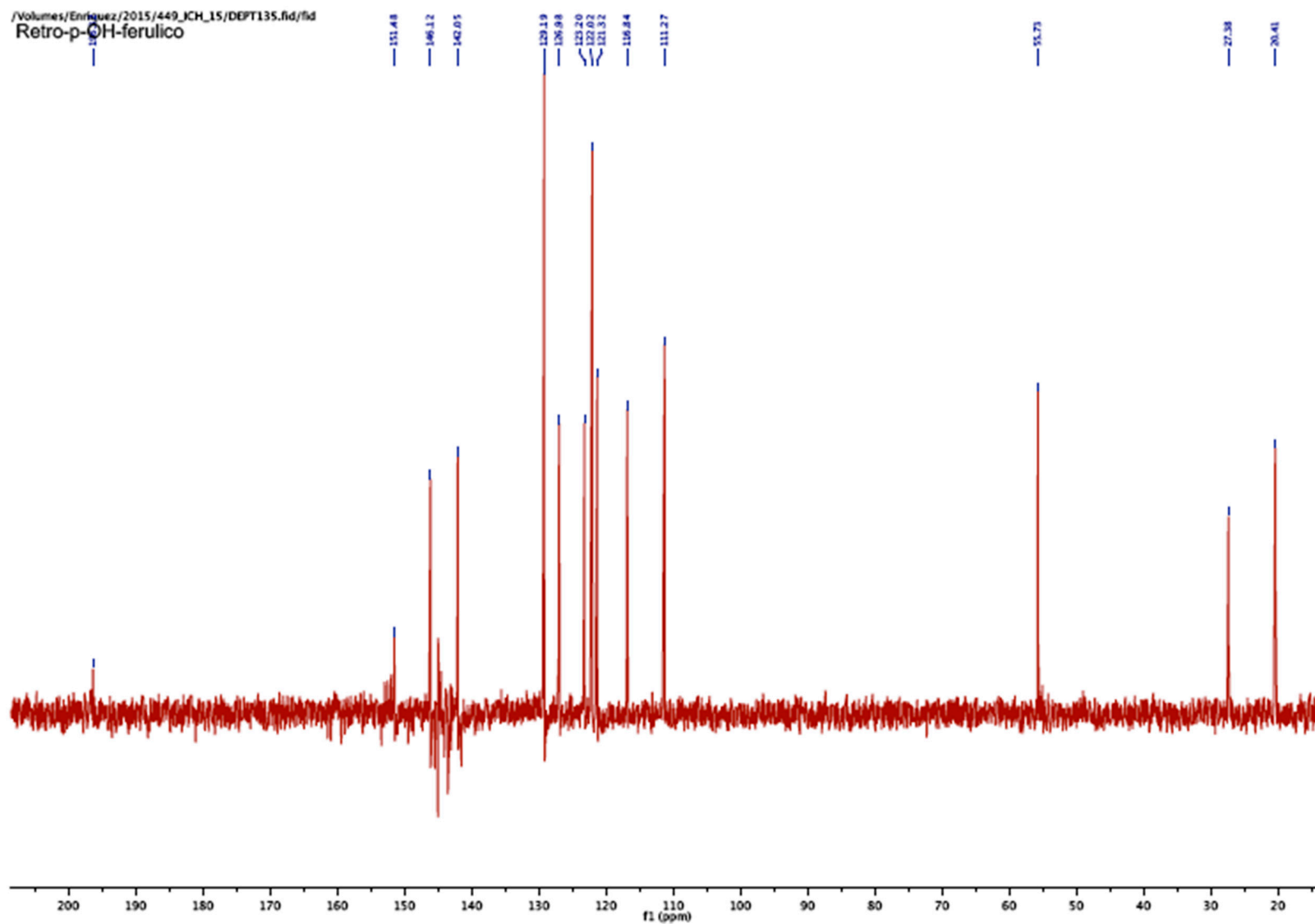
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NMR Retro-Curcuminoid 12

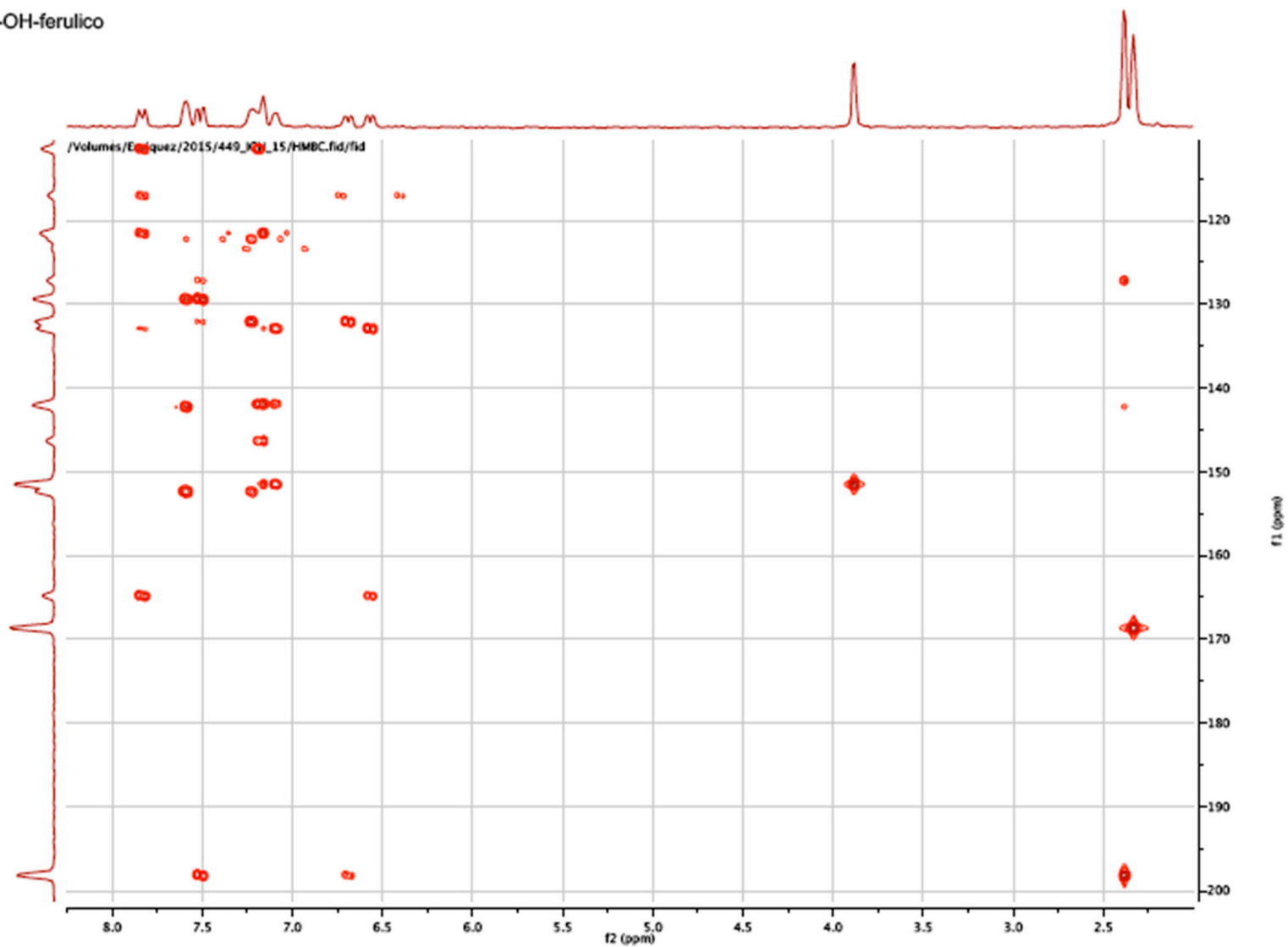


NMR Retro-Curcuminoid 12

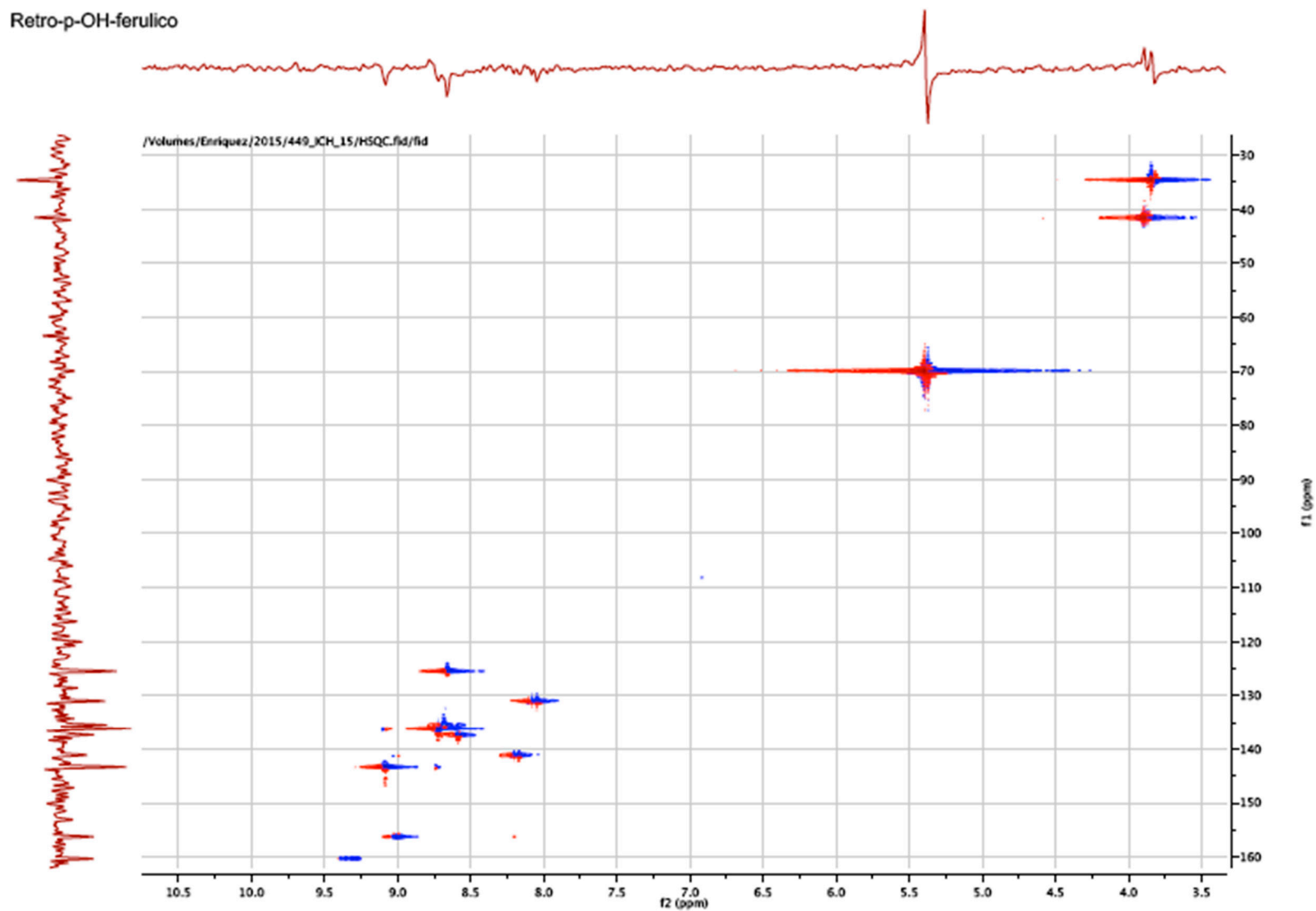


NMR Retro-Curcuminoid 12

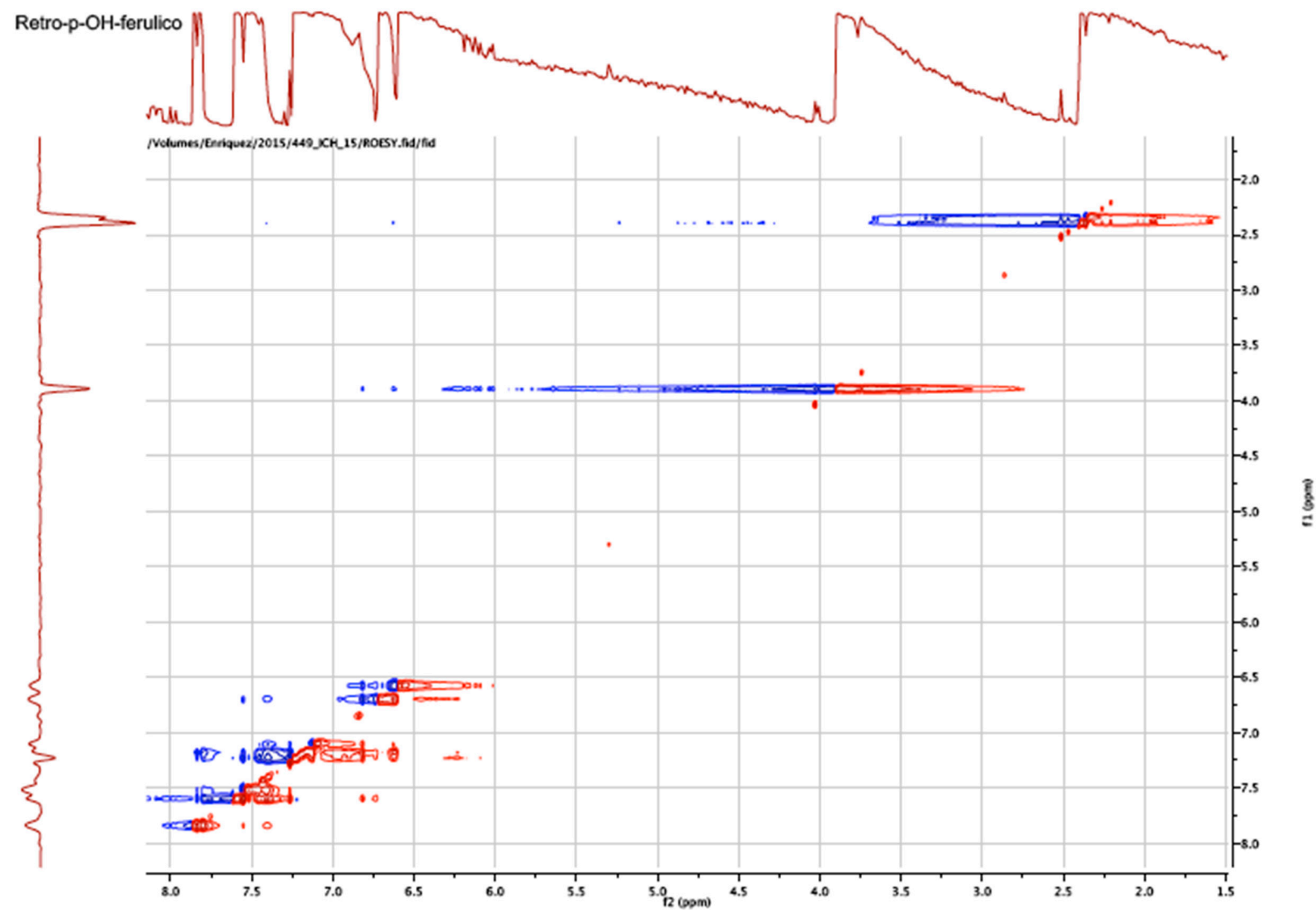
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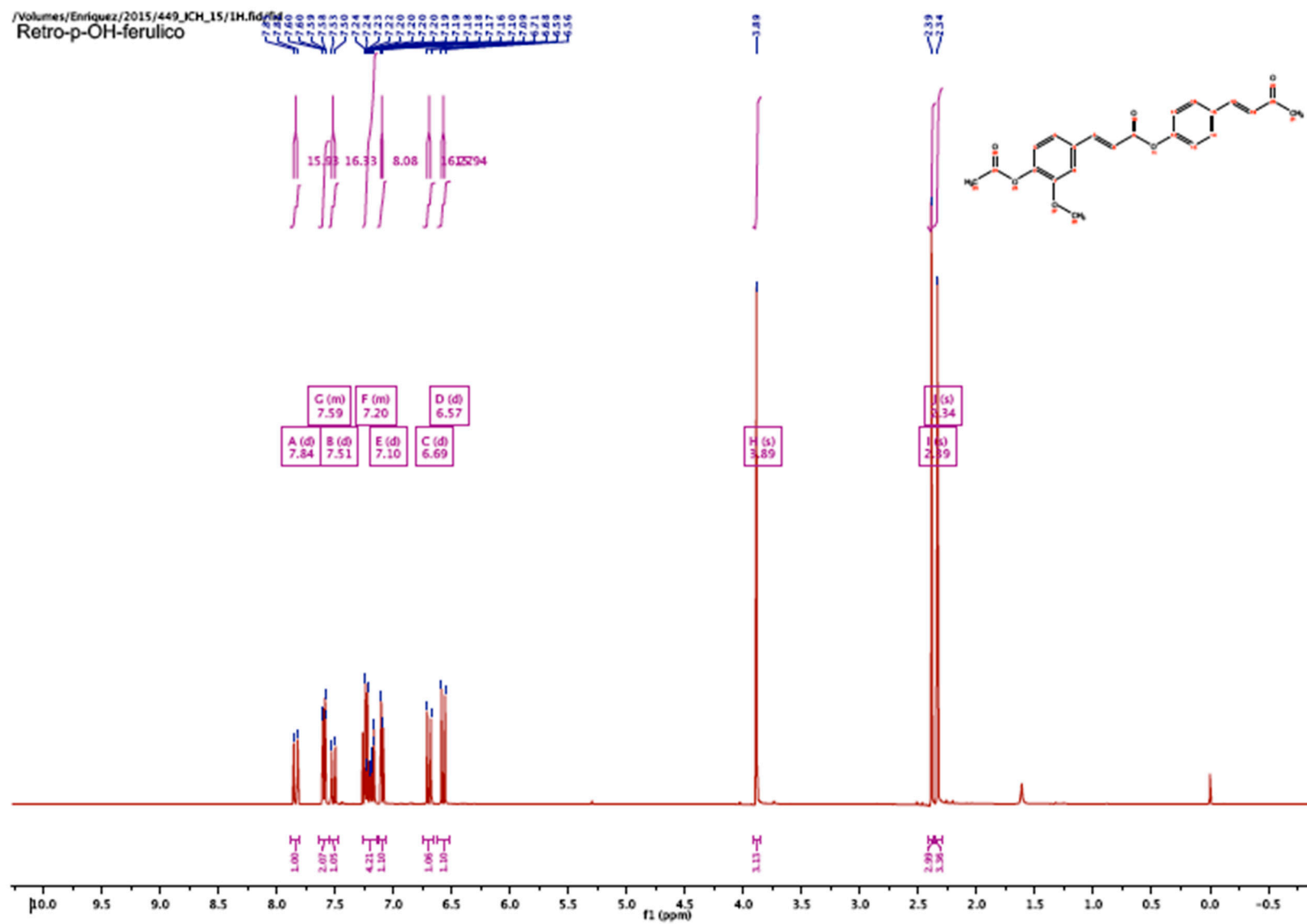
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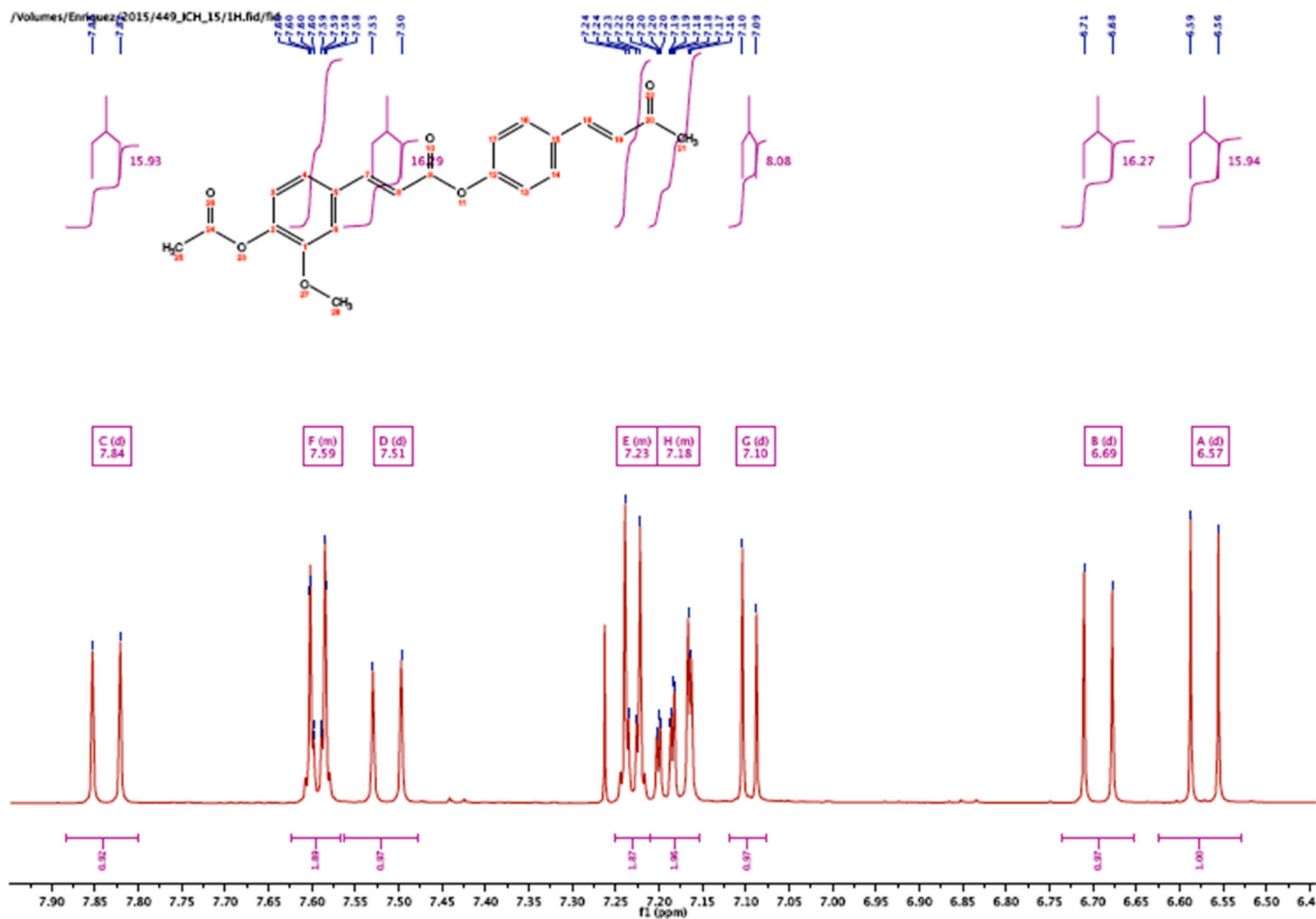
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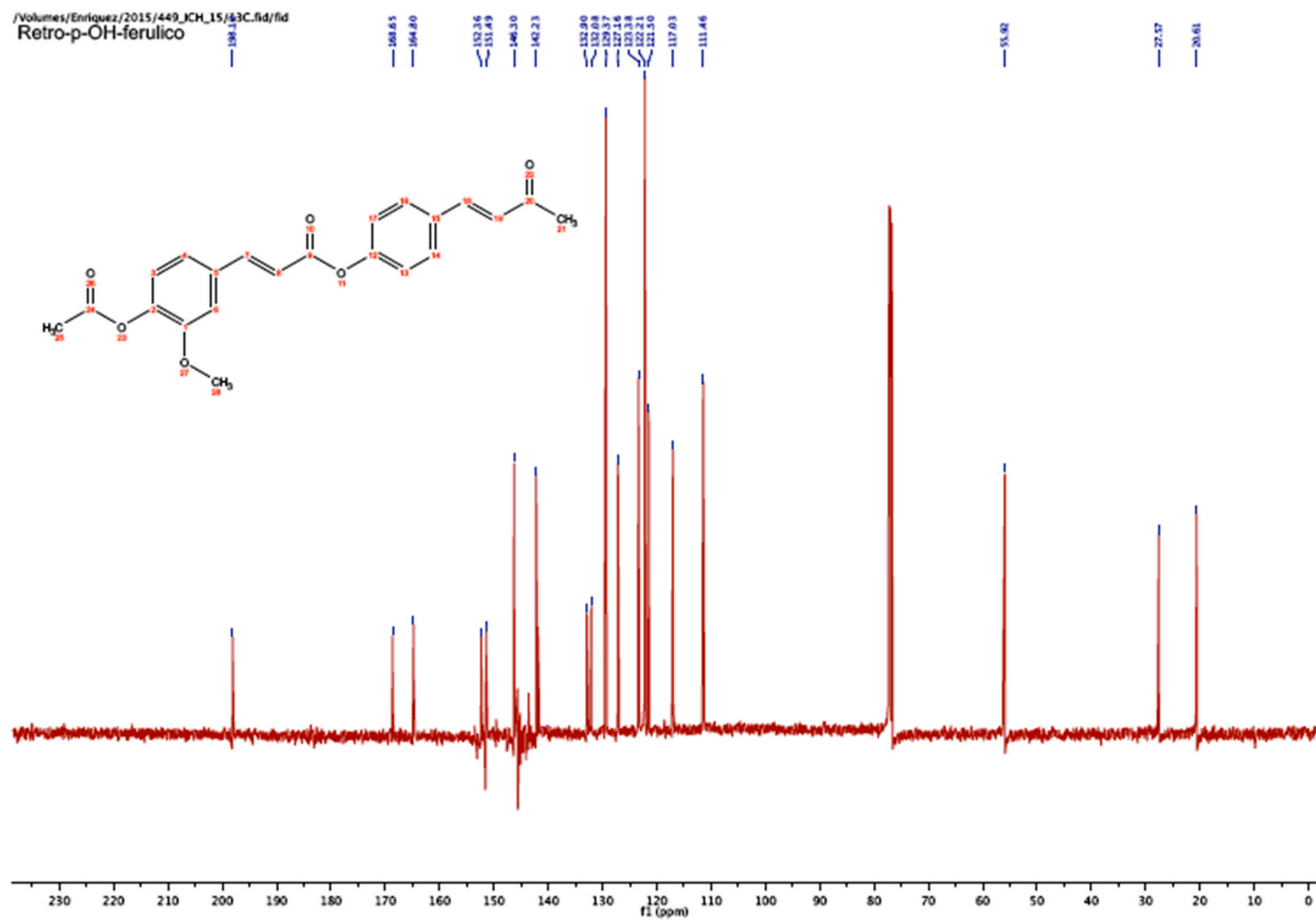
NMR Retro-Curcuminoid 13



NMR Retro-Curcuminoid 13

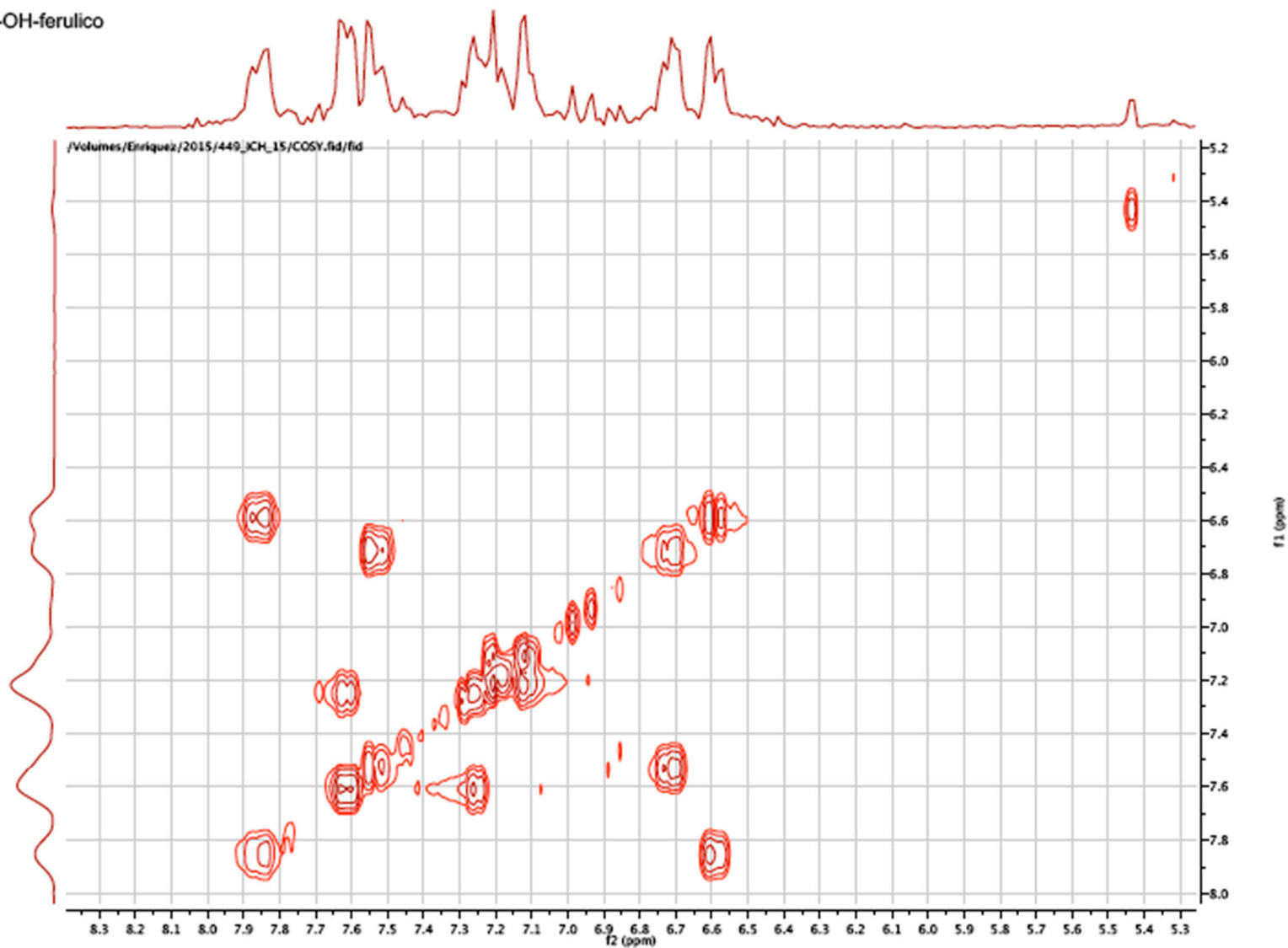


NMR Retro-Curcuminoid 13

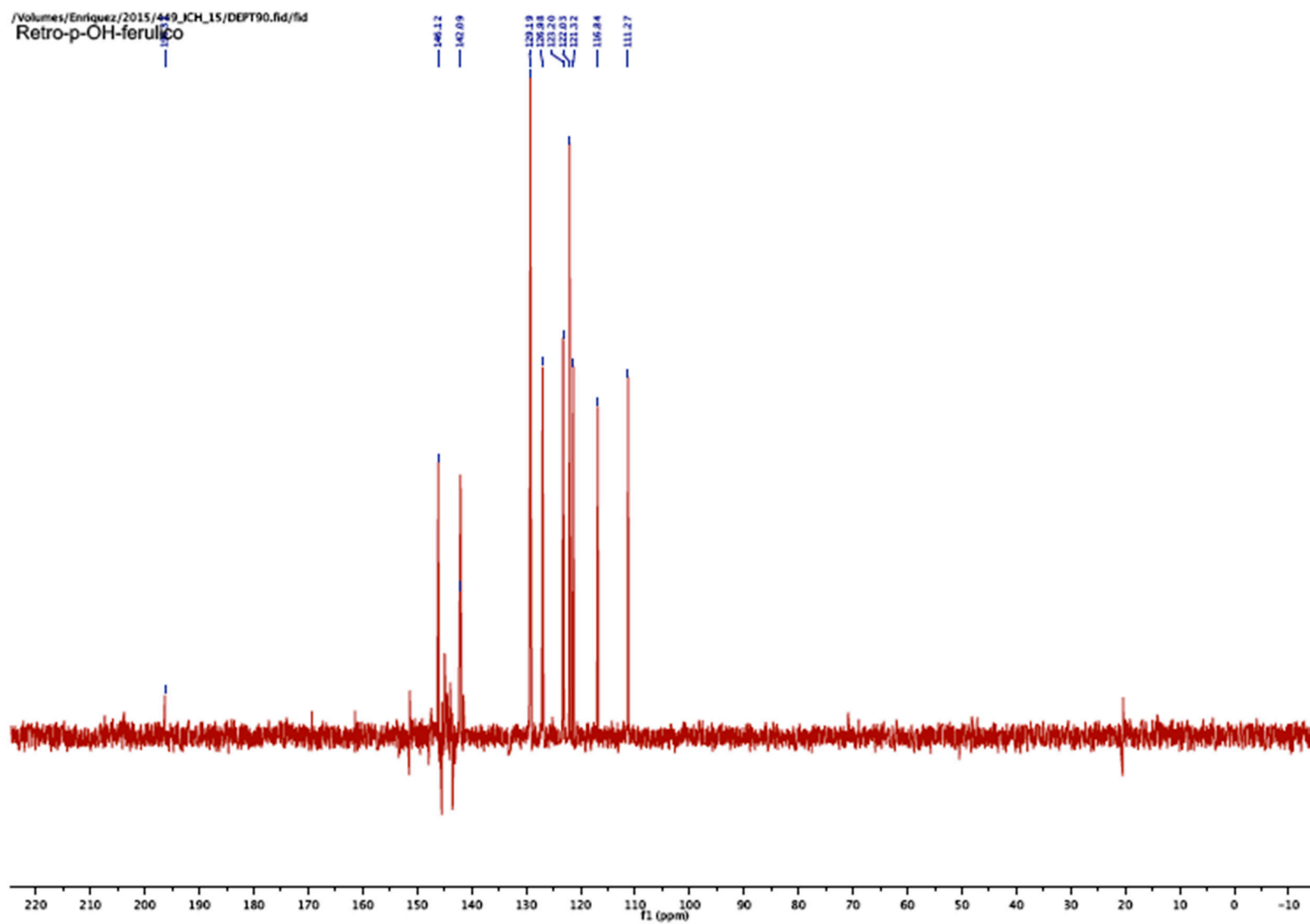


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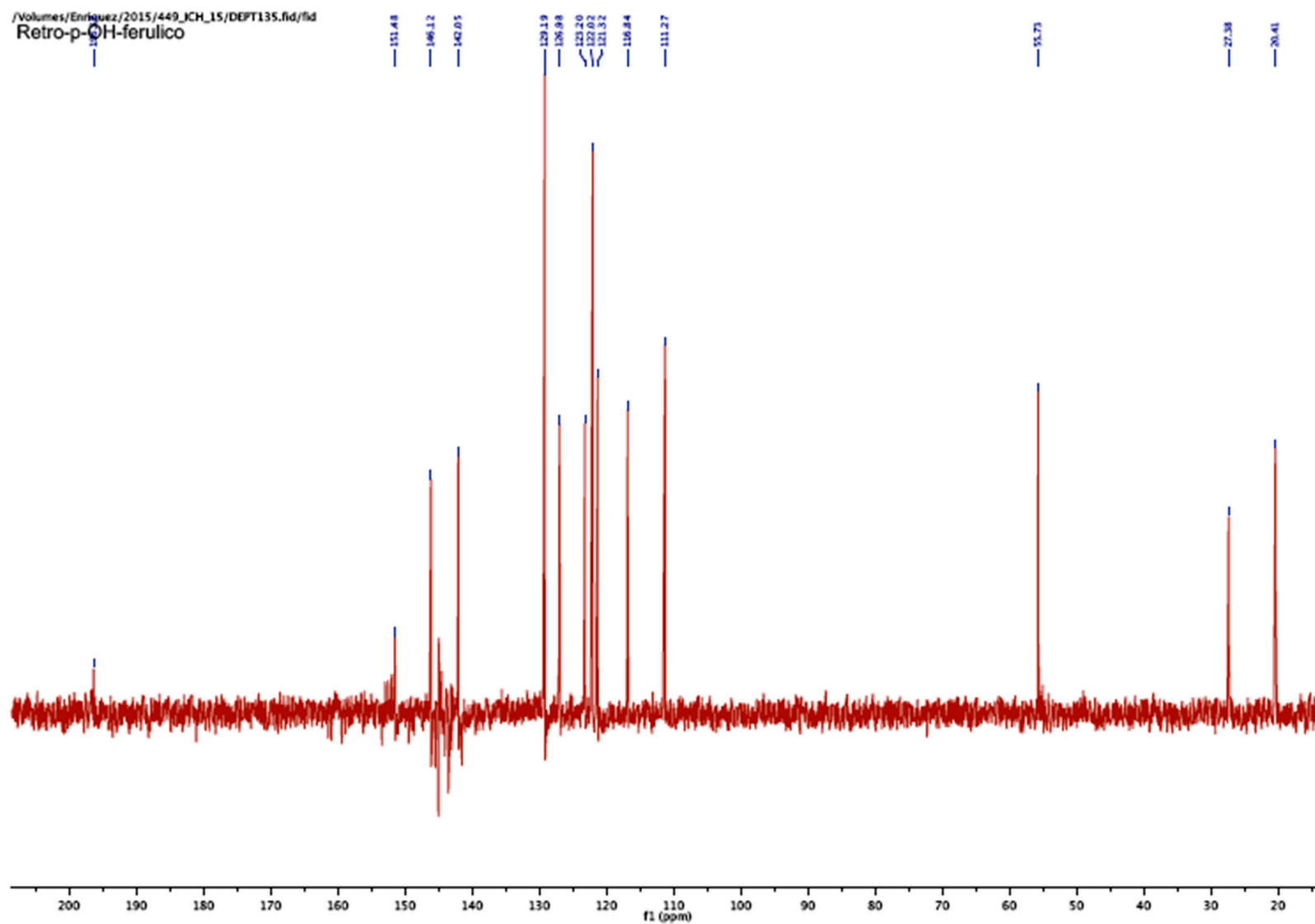
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NMR Retro-Curcuminoid 13

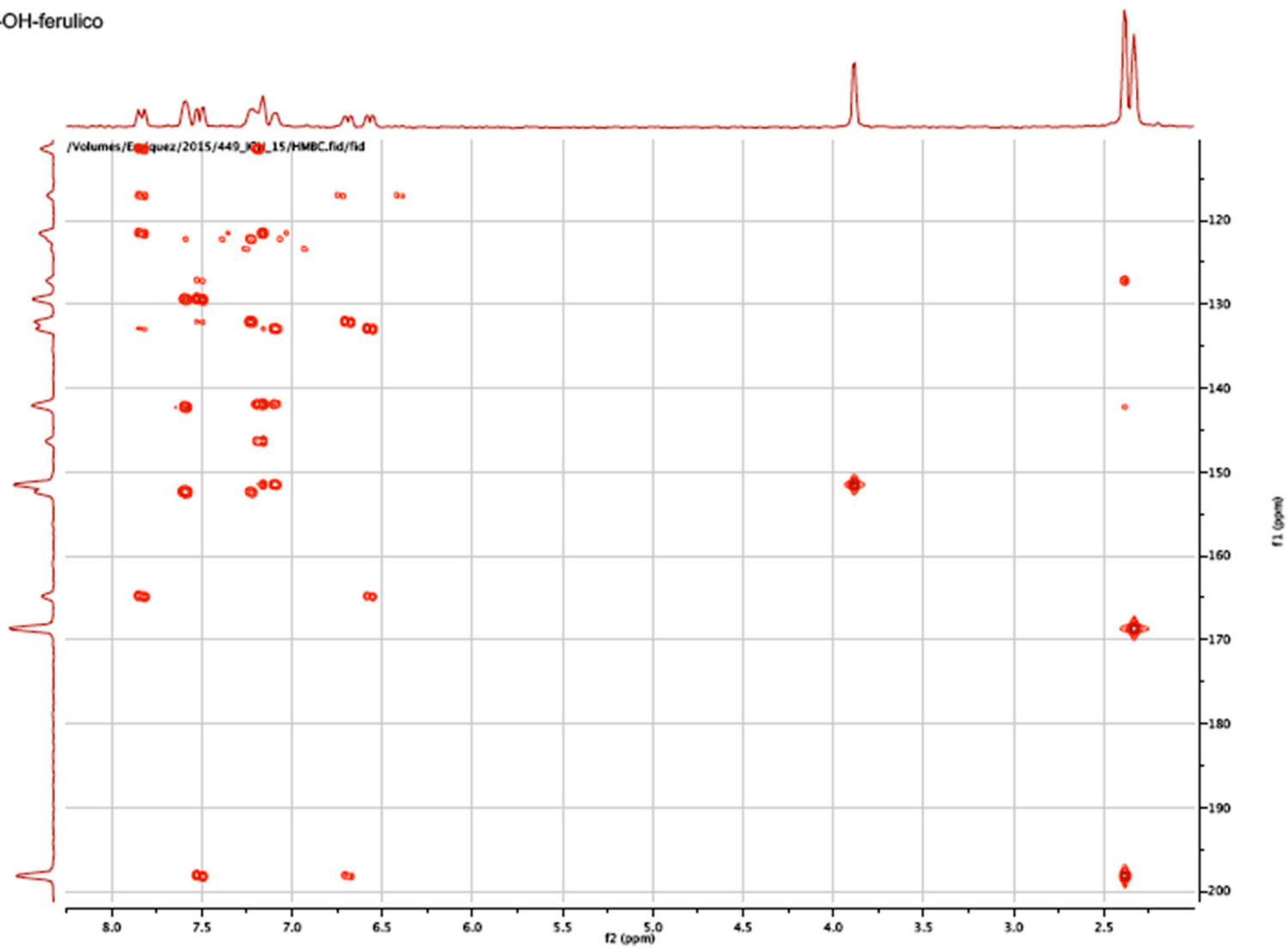


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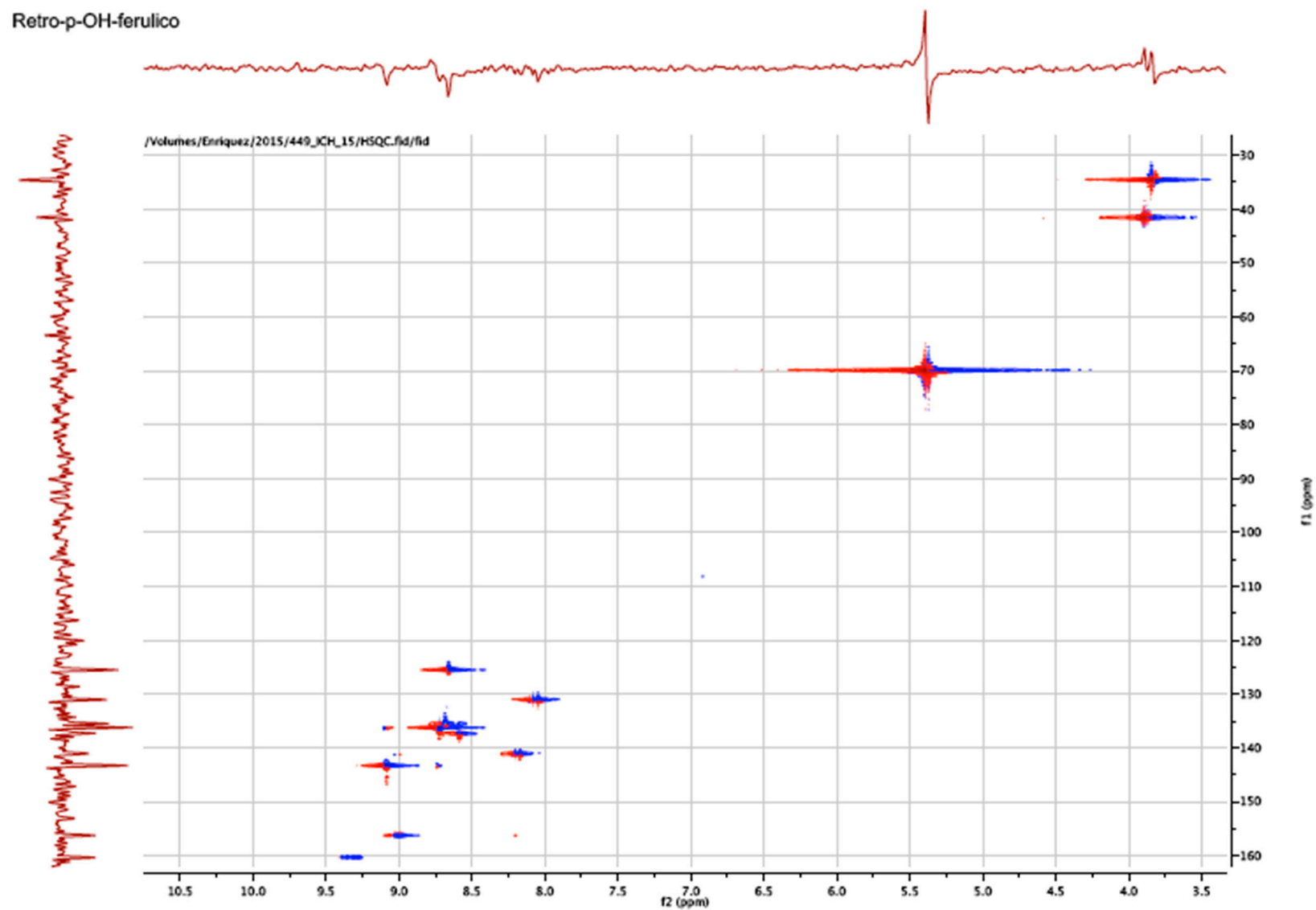


NMR Retro-Curcuminoid 13

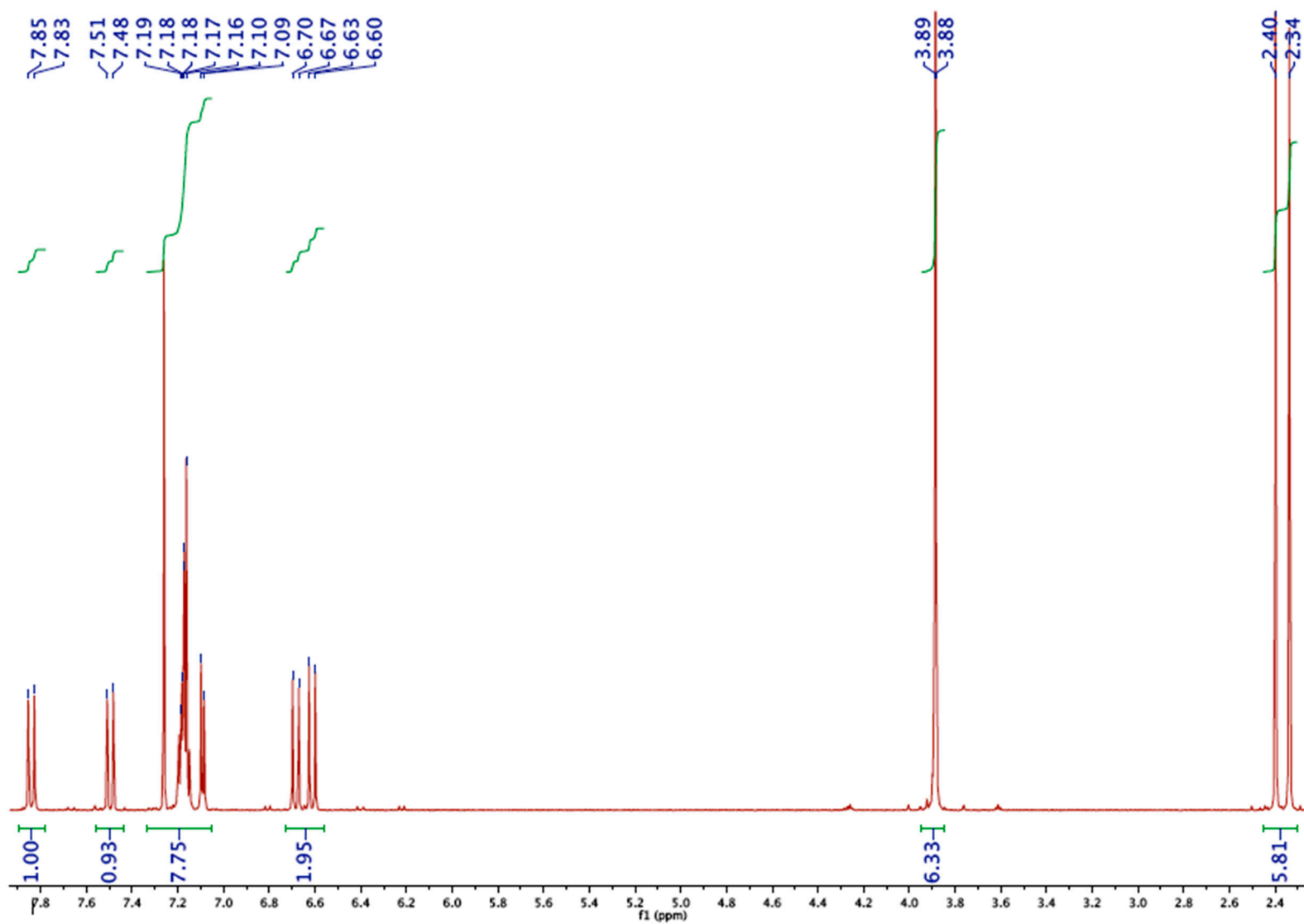
Retro-p-OH-ferulico



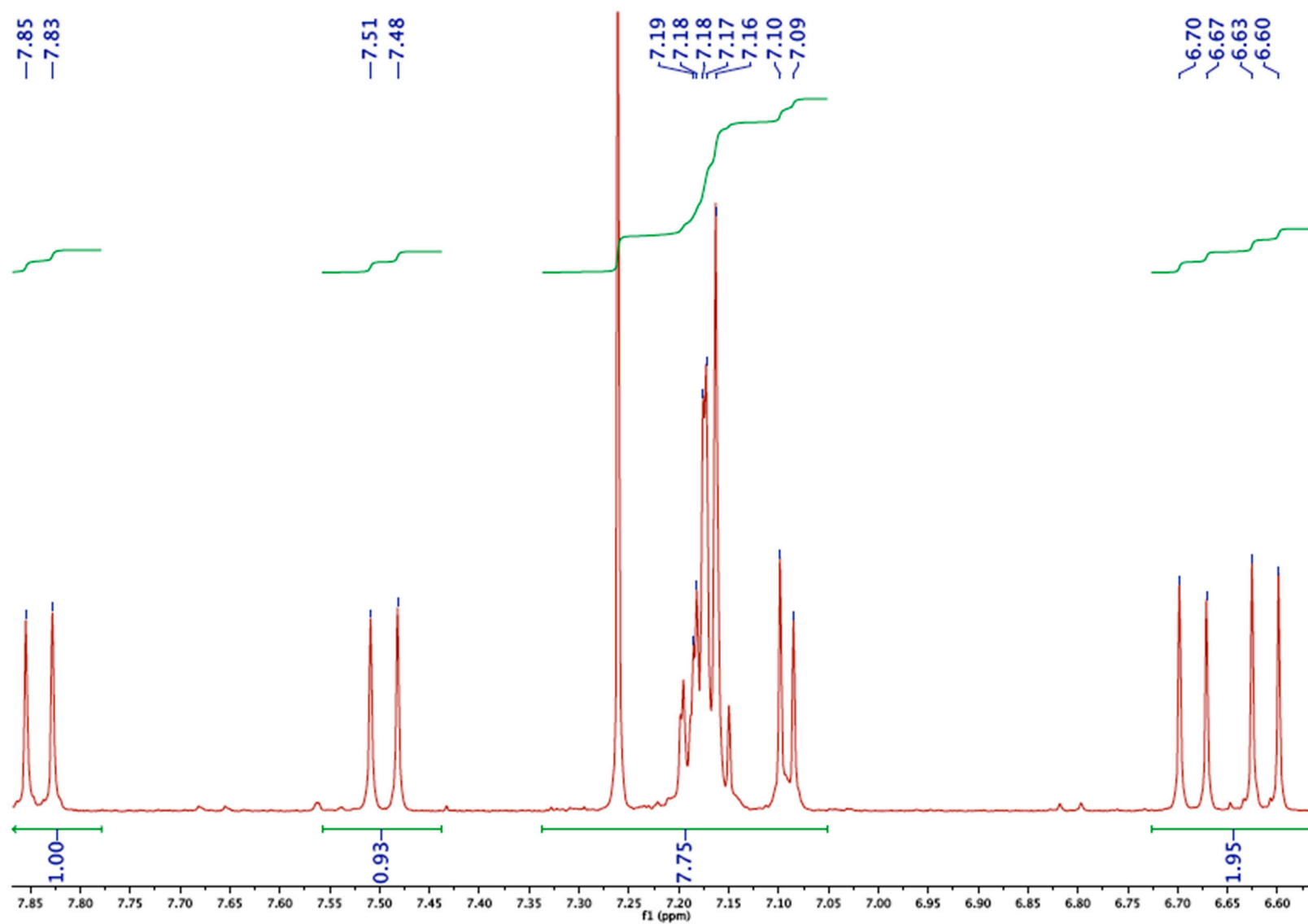
NMR Retro-Curcuminoid 13



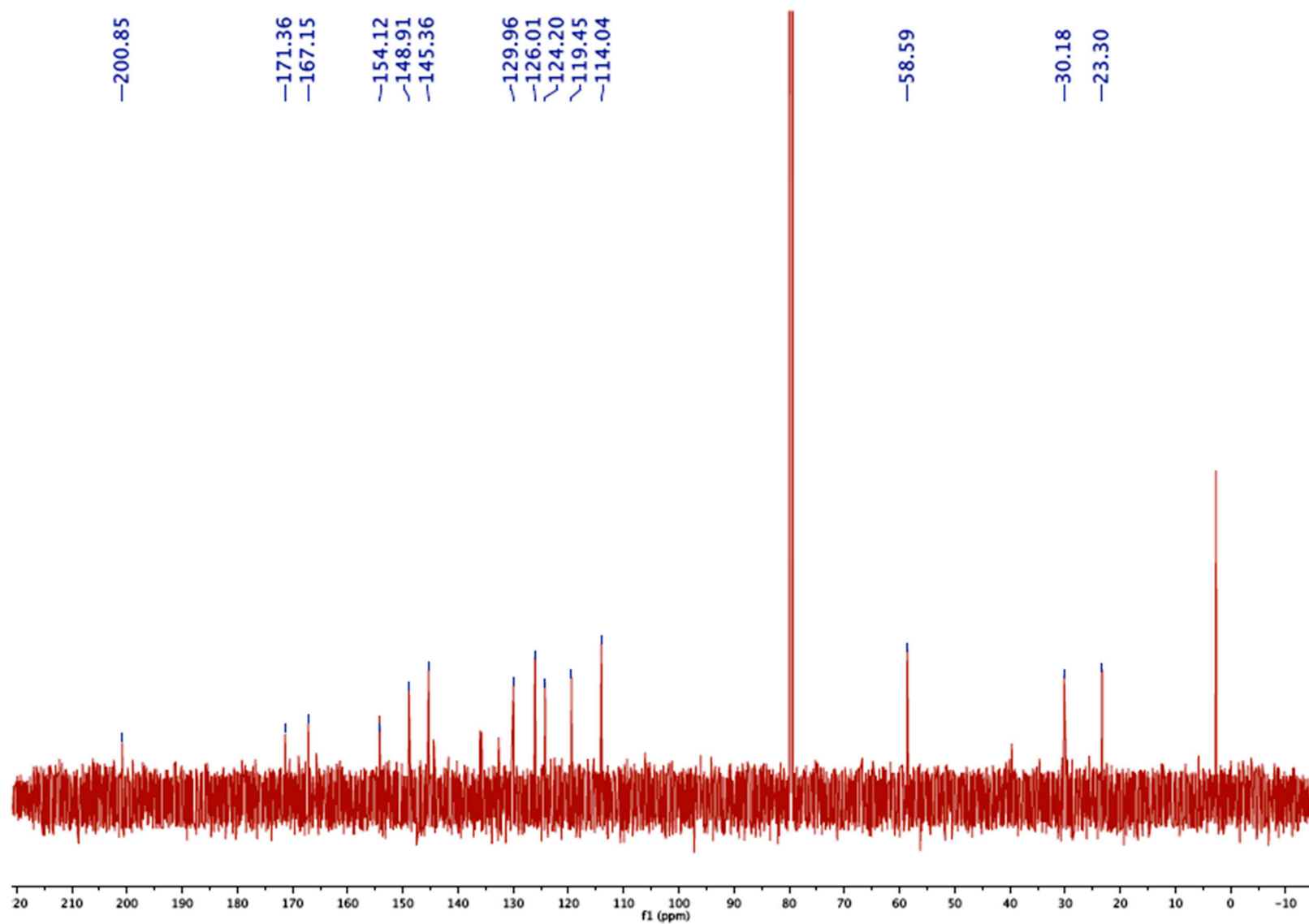
NMR Retro-Curcuminoid 14



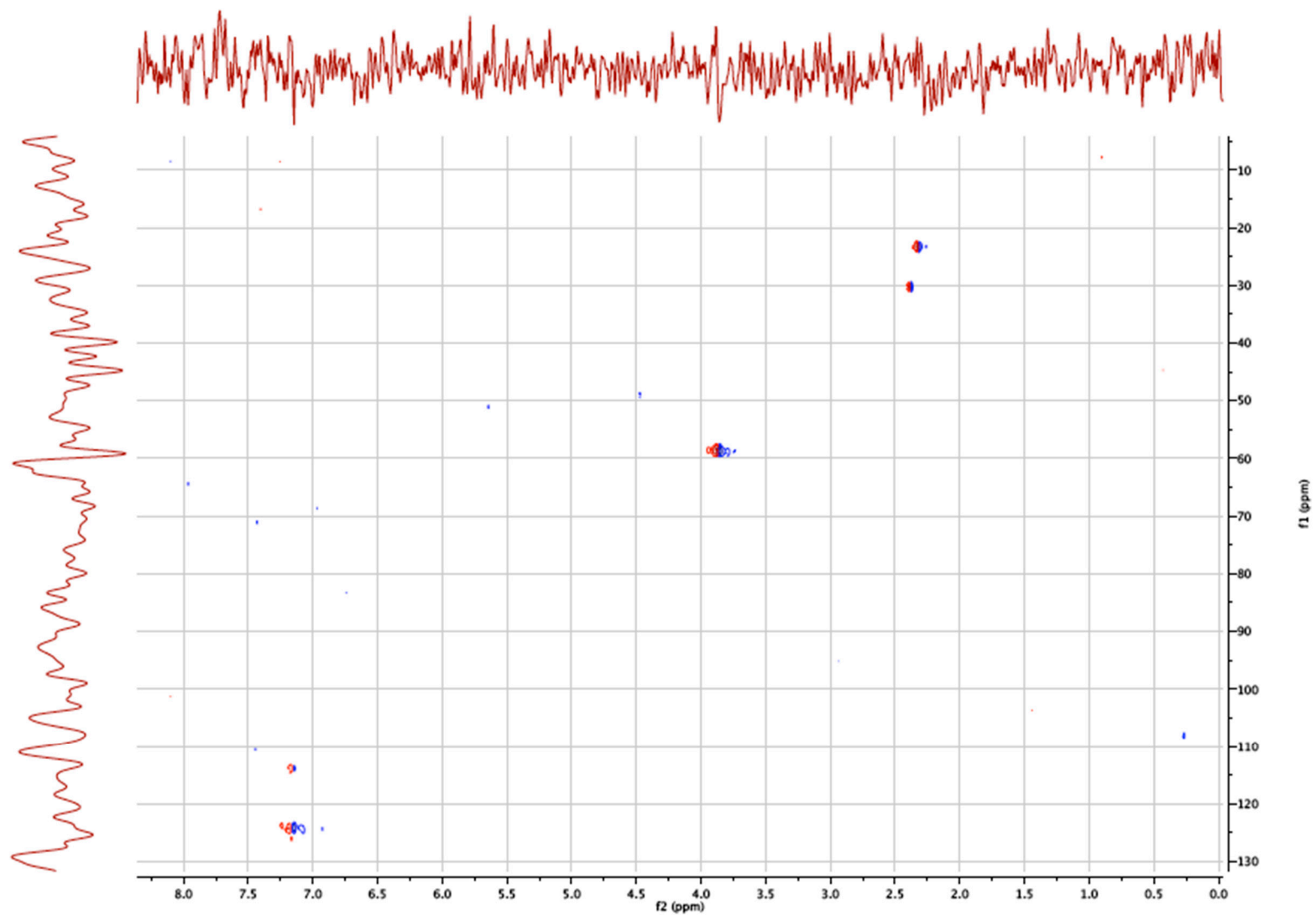
NMR Retro-Curcuminoid 14



NMR Retro-Curcuminoid 14



NMR Retro-Curcuminoid 14



X-ray Data

Table S1. Bond distances (Å) and angles (deg) for 4-((*E*)-3-oxobut-1-en-1-yl)phenyl(*E*)-3-(4-acetoxy-3-methoxyphenyl)acrylate. Compound 4.

O1–C1	1.187(4)	O2–C1	1.363(4)
O2–C13	1.405(3)	O3–C6	1.370(3)
O3–C10	1.426(4)	O4–C11	1.353(4)
O4–C7	1.405(3)	O5–C11	1.195(4)
O6–C21	1.214(4)	C1–C2	1.446(4)
C2–C3	1.323(4)	C3–C4	1.463(4)
C4–C9	1.385(4)	C4–C5	1.399(4)
C5–C6	1.377(4)	C6–C7	1.387(4)
C7–C8	1.367(4)	C8–C9	1.382(4)
C11–C12	1.482(4)	C13–C14	1.368(4)
C13–C18	1.372(4)	C14–C15	1.379(4)
C15–C16	1.371(4)	C16–C17	1.390(4)
C16–C19	1.480(4)	C17–C18	1.387(4)
C19–C20	1.310(4)	C20–C21	1.476(4)
C21–C22	1.489(5)		
C1–O2–C13	123.7(2)	C6–O3–C10	117.6(2)
C11–O4–C7	117.1(2)	O1–C1–O2	123.3(3)
O1–C1–C2	126.9(3)	O2–C1–C2	109.8(3)
C3–C2–C1	121.0(3)	C2–C3–C4	128.0(3)
C9–C4–C5	118.6(3)	C9–C4–C3	123.2(3)
C5–C4–C3	118.2(3)	C6–C5–C4	121.5(3)
O3–C6–C5	125.5(3)	O3–C6–C7	116.1(2)
C5–C6–C7	118.3(3)	C8–C7–C6	121.1(3)
C8–C7–O4	118.4(3)	C6–C7–O4	120.4(3)
C7–C8–C9	120.3(3)	C8–C9–C4	120.1(3)
O5–C11–O4	122.0(3)	O5–C11–C12	126.9(3)
O4–C11–C12	111.1(3)	C14–C13–C18	120.7(3)
C14–C13–O2	113.6(3)	C18–C13–O2	125.6(3)
C13–C14–C15	119.9(3)	C16–C15–C14	121.3(3)
C15–C16–C17	117.9(3)	C15–C16–C19	119.5(3)
C17–C16–C19	122.5(3)	C18–C17–C16	121.4(3)
C13–C18–C17	118.8(3)	C20–C19–C16	127.1(3)
C19–C20–C21	126.1(3)	O6–C21–C20	118.6(3)
O6–C21–C22	120.7(3)	C20–C21–C22	120.7(3)

Table S2. Bond distances (Å) and angles (deg) for 2-((*E*)-3-oxobut-1-en-1-yl)phenyl(*E*)-3-(4-acetoxy-3-methoxyphenyl)acrylate. Compound 6.

O1–C1	1.370(2)	O1–C13	1.412(2)
O2–C1	1.200(2)	O3–C6	1.359(2)
O3–C10	1.427(2)	O4–C11	1.361(3)
O4–C7	1.400(2)	O5–C11	1.194(2)
O6–C21	1.219(3)	C1–C2	1.458(3)
C2–C3	1.320(3)	C3–C4	1.472(2)
C4–C9	1.394(3)	C4–C5	1.400(3)
C5–C6	1.386(3)	C6–C7	1.388(3)
C7–C8	1.371(3)	C8–C9	1.383(3)
C11–C12	1.488(3)	C13–C18	1.371(3)
C13–C14	1.392(3)	C14–C15	1.412(3)
C14–C19	1.455(3)	C15–C16	1.372(3)
C16–C17	1.387(3)	C17–C18	1.389(3)
C19–C20	1.325(3)	C20–C21	1.460(3)
C21–C22	1.473(3)		
C1–O1–C13	117.08(15)	C6–O3–C10	116.79(15)
C11–O4–C7	116.86(15)	O2–C1–O1	122.41(18)
O2–C1–C2	126.9(2)	O1–C1–C2	110.67(18)
C3–C2–C1	120.54(19)	C2–C3–C4	127.39(19)
C9–C4–C5	119.47(17)	C9–C4–C3	122.02(18)
C5–C4–C3	118.51(17)	C6–C5–C4	120.51(18)
O3–C6–C5	125.87(18)	O3–C6–C7	115.51(17)
C5–C6–C7	118.62(19)	C8–C7–C6	121.54(18)
C8–C7–O4	119.13(17)	C6–C7–O4	119.12(18)
C7–C8–C9	120.06(19)	C8–C9–C4	119.74(19)
O5–C11–O4	122.75(19)	O5–C11–C12	126.6(2)
O4–C11–C12	110.63(18)	C18–C13–C14	122.88(19)
C18–C13–O1	117.89(18)	C14–C13–O1	119.15(19)
C13–C14–C15	116.9(2)	C13–C14–C19	120.83(18)
C15–C14–C19	122.2(2)	C16–C15–C14	120.8(2)
C15–C16–C17	120.4(2)	C16–C17–C18	120.1(2)
C13–C18–C17	118.8(2)	C20–C19–C14	126.8(2)
C19–C20–C21	122.5(2)	O6–C21–C20	121.7(2)
O6–C21–C22	119.6(3)	C20–C21–C22	118.6(2)

Table S3. Bond distances (Å) and angles (deg) for 2-methoxy-4-((E)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 7.

O1–C2	1.227(3)	O2–C7	1.361(3)
O2–C11	1.424(4)	O3–C12	1.348(3)
O3–C8	1.402(3)	O4–C12	1.185(3)
C1–C2	1.498(4)	C2–C3	1.457(4)
C3–C4	1.319(4)	C4–C5	1.484(4)
C5–C10	1.389(4)	C5–C6	1.390(3)
C6–C7	1.388(3)	C7–C8	1.381(4)
C8–C9	1.371(4)	C9–C10	1.393(4)
C12–C13	1.474(3)	C13–C14	1.310(3)
C14–C15	1.467(3)	C15–C16	1.378(3)
C15–C20	1.385(3)	C16–C17	1.383(4)
C17–C18	1.366(4)	C18–C19	1.363(4)
C19–C20	1.375(4)		
C7–O2–C11	117.3(2)	C12–O3–C8	118.5(2)
O1–C2–C3	122.2(3)	O1–C2–C1	120.9(2)
C3–C2–C1	116.8(3)	C4–C3–C2	120.7(3)
C3–C4–C5	127.9(3)	C10–C5–C6	118.5(2)
C10–C5–C4	124.2(2)	C6–C5–C4	117.3(2)
C7–C6–C5	121.2(2)	O2–C7–C8	116.2(2)
O2–C7–C6	124.6(2)	C8–C7–C6	119.2(2)
C9–C8–C7	120.7(2)	C9–C8–O3	120.0(2)
C7–C8–O3	119.1(2)	C8–C9–C10	120.0(3)
C5–C10–C9	120.5(2)	O4–C12–O3	122.7(2)
O4–C12–C13	127.6(2)	O3–C12–C13	109.7(2)
C14–C13–C12	122.2(3)	C13–C14–C15	127.1(2)
C16–C15–C20	117.8(2)	C16–C15–C14	122.8(2)
C20–C15–C14	119.3(2)	C15–C16–C17	120.8(2)
C18–C17–C16	120.3(3)	C19–C18–C17	119.6(2)
C18–C19–C20	120.4(2)	C19–C20–C15	121.0(2)

Table S4. Bond distances (Å) and angles (deg) for 4-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 8.

O1–C1	1.3587(19)	O1–C10	1.3988(18)
O2–C1	1.1963(19)	C1–C2	1.460(2)
C2–C3	1.319(2)	C3–C4	1.460(2)
C4–C5	1.386(2)	C4–C9	1.387(2)
C5–C6	1.370(2)	C6–C7	1.360(3)
C7–C8	1.377(3)	C8–C9	1.371(2)
C10–C15	1.366(2)	C10–C11	1.374(2)
C11–C12	1.378(3)	C12–C13	1.388(3)
C13–C14	1.383(3)	C13–C16A	1.446(6)
C13–C16	1.519(4)	C14–C15	1.371(2)
C16–C17	1.326(4)	C17–C18	1.456(4)
C18–O3	1.209(4)	C18–C19	1.455(7)
C16A–C17A	1.338(6)	C17A–C18A	1.443(6)
C18A–O3A	1.245(7)	C18A–C19A	1.428(8)
C1–O1–C10	118.87(12)	O2–C1–O1	122.75(15)
O2–C1–C2	126.98(15)	O1–C1–C2	110.25(14)
C3–C2–C1	121.47(16)	C2–C3–C4	127.83(16)
C5–C4–C9	117.78(16)	C5–C4–C3	119.48(15)
C9–C4–C3	122.73(15)	C6–C5–C4	121.23(18)
C7–C6–C5	120.34(18)	C6–C7–C8	119.61(17)
C9–C8–C7	120.41(18)	C8–C9–C4	120.64(17)
C15–C10–C11	121.17(15)	C15–C10–O1	117.20(14)
C11–C10–O1	121.51(15)	C10–C11–C12	118.72(18)
C11–C12–C13	121.46(16)	C14–C13–C12	117.77(16)
C14–C13–C16A	137.7(3)	C12–C13–C16A	104.5(3)
C14–C13–C16	111.4(2)	C12–C13–C16	130.8(2)
C15–C14–C13	121.37(17)	C10–C15–C14	119.49(15)
C17–C16–C13	123.3(4)	C16–C17–C18	124.8(3)
O3–C18–C19	119.3(4)	O3–C18–C17	118.3(4)
C19–C18–C17	122.2(4)	C17A–C16A–C13	117.7(6)
C16A–C17A–C18A	125.4(5)	O3A–C18A–C19A	120.0(6)
O3A–C18A–C17A	118.4(6)	C19A–C18A–C17A	121.5(6)

Table S5. Bond distances (Å) and angles (deg) for 3-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound **9**.

O1–C1	1.360(2)	O1–C10	1.415(2)
O2–C1	1.195(2)	O3–C18	1.209(3)
C1–C2	1.461(3)	C2–C3	1.323(3)
C3–C4	1.465(3)	C4–C9	1.385(3)
C4–C5	1.388(3)	C5–C6	1.381(3)
C6–C7	1.368(3)	C7–C8	1.377(3)
C8–C9	1.377(3)	C10–C15	1.368(3)
C10–C11	1.377(3)	C11–C12	1.399(3)
C12–C13	1.386(3)	C12–C16	1.466(3)
C13–C14	1.378(3)	C14–C15	1.380(3)
C16–C17	1.310(3)	C17–C18	1.475(3)
C18–C19	1.486(3)		
C1–O1–C10	118.89(15)	O2–C1–O1	123.75(18)
O2–C1–C2	125.65(19)	O1–C1–C2	110.60(17)
C3–C2–C1	119.79(19)	C2–C3–C4	127.37(19)
C9–C4–C5	118.36(19)	C9–C4–C3	121.85(18)
C5–C4–C3	119.78(18)	C6–C5–C4	120.7(2)
C7–C6–C5	120.0(2)	C6–C7–C8	120.1(2)
C9–C8–C7	120.0(2)	C8–C9–C4	120.8(2)
C15–C10–C11	122.46(18)	C15–C10–O1	122.05(17)
C11–C10–O1	115.45(17)	C10–C11–C12	119.37(18)
C13–C12–C11	118.19(18)	C13–C12–C16	119.58(18)
C11–C12–C16	122.21(18)	C14–C13–C12	121.08(19)
C13–C14–C15	120.7(2)	C10–C15–C14	118.15(19)
C17–C16–C12	126.32(19)	C16–C17–C18	126.1(2)
O3–C18–C17	118.8(2)	O3–C18–C19	121.2(2)
C17–C18–C19	119.9(2)		

Table S6. Bond distances (Å) and angles (deg) for 2-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 10.

O1–C1	1.352(6)	O1–C10	1.394(4)
O2–C1	1.188(5)	C1–C2	1.528(6)
C2–C3	1.252(5)	C3–C4	1.481(6)
C4–C9	1.372(5)	C4–C5	1.384(6)
C5–C6	1.381(5)	C6–C7	1.372(6)
C7–C8	1.372(6)	C8–C9	1.363(6)
C10–C15	1.361(5)	C10–C11	1.386(6)
C11–C12	1.385(6)	C11–C16A	1.467(19)
C11–C16	1.535(15)	C12–C13	1.380(6)
C13–C14	1.356(5)	C14–C15	1.378(5)
C16–C17	1.32(2)	C17–C18	1.495(12)
C18–O3	1.209(11)	C18–C19	1.510(13)
C16A–C17A	1.27(3)	C17A–C18A	1.496(13)
C18A–O3A	1.196(12)	C18A–C19A	1.517(13)
C1–O1–C10	117.3(4)	O2–C1–O1	124.8(6)
O2–C1–C2	126.9(6)	O1–C1–C2	108.2(5)
C3–C2–C1	122.8(5)	C2–C3–C4	127.1(5)
C9–C4–C5	118.3(5)	C9–C4–C3	118.6(5)
C5–C4–C3	123.0(5)	C6–C5–C4	120.6(5)
C7–C6–C5	119.7(5)	C8–C7–C6	120.1(5)
C9–C8–C7	119.8(5)	C8–C9–C4	121.6(5)
C15–C10–C11	123.8(5)	C15–C10–O1	116.7(5)
C11–C10–O1	119.4(5)	C10–C11–C12	115.5(5)
C10–C11–C16A	138.5(8)	C12–C11–C16A	105.8(8)
C10–C11–C16	112.0(7)	C12–C11–C16	132.2(8)
C16A–C11–C16	27.6(6)	C13–C12–C11	121.8(5)
C14–C13–C12	120.0(6)	C13–C14–C15	120.4(5)
C10–C15–C14	118.4(5)	C17–C16–C11	121.6(12)
C16–C17–C18	126.1(13)	O3–C18–C17	117.7(11)
O3–C18–C19	122.7(13)	C17–C18–C19	119.5(11)
C17A–C16A–C11	121.8(16)	C16A–C17A–C18A	118.1(16)
O3A–C18A–C17A	122.6(13)	O3A–C18A–C19A	122.2(15)
C17A–C18A–C19A	115.1(12)		

Table S7. Atomic coordinates and displacement parameters ($\text{\AA}^2$) for 4-((*E*)-3-oxobut-1-en-1-yl)phenyl(*E*)-3-(4-acetoxy-3-methoxy phenyl)acrylate. Compound 4.

	x	y	z	U11	U22	U33	U23	U13	U12
O1	0.60250(10)	0.0651(4)	0.7022(2)	0.0479(15)	0.153(3)	0.0590(18)	−0.0314(17)	−0.0074(13)	0.0223(15)
O2	0.54118(9)	0.1386(3)	0.84428(18)	0.0337(13)	0.0884(19)	0.0492(14)	−0.0062(12)	−0.0045(11)	0.0003(11)
O3	0.90397(9)	−0.0559(3)	1.0289(2)	0.0420(14)	0.0757(19)	0.0542(15)	−0.0079(12)	−0.0037(11)	0.0159(11)
O4	0.89138(9)	0.0710(3)	1.25598(18)	0.0456(13)	0.0682(17)	0.0440(13)	0.0090(11)	−0.0112(10)	−0.0084(11)
O5	0.93925(10)	0.2830(3)	1.1666(2)	0.0607(16)	0.076(2)	0.0738(18)	0.0109(15)	−0.0091(13)	−0.0173(13)
O6	0.22473(10)	0.1608(4)	0.3101(2)	0.0649(16)	0.102(2)	0.0498(16)	−0.0077(14)	−0.0082(12)	0.0068(14)
C1	0.59558(14)	0.1080(4)	0.8044(3)	0.036(2)	0.066(3)	0.052(2)	−0.0026(18)	−0.0053(17)	0.0054(16)
C2	0.64131(13)	0.1338(4)	0.9045(3)	0.041(2)	0.058(2)	0.0424(19)	0.0001(16)	−0.0008(15)	−0.0013(16)
C3	0.69624(13)	0.0790(4)	0.8962(3)	0.0388(19)	0.051(2)	0.0446(19)	0.0009(15)	−0.0004(15)	−0.0041(15)
C4	0.74681(12)	0.0876(4)	0.9899(3)	0.0381(18)	0.041(2)	0.0406(19)	0.0065(15)	0.0006(14)	−0.0014(14)
C5	0.80078(12)	0.0156(4)	0.9622(3)	0.0432(19)	0.044(2)	0.0393(18)	0.0007(15)	−0.0015(15)	−0.0009(15)
C6	0.84973(13)	0.0136(4)	1.0472(3)	0.0377(19)	0.048(2)	0.044(2)	0.0000(15)	−0.0022(15)	0.0011(15)
C7	0.84424(13)	0.0832(4)	1.1630(3)	0.0383(19)	0.045(2)	0.044(2)	0.0065(15)	−0.0104(15)	−0.0044(15)
C8	0.79223(13)	0.1570(4)	1.1913(3)	0.047(2)	0.050(2)	0.0402(18)	−0.0036(15)	−0.0002(16)	−0.0046(16)
C9	0.74338(13)	0.1598(4)	1.1054(3)	0.0377(18)	0.047(2)	0.050(2)	−0.0016(16)	0.0032(15)	−0.0018(15)
C10	0.91421(14)	−0.1036(5)	0.9062(3)	0.052(2)	0.082(3)	0.064(3)	0.007(2)	0.0133(18)	0.0093(19)
C11	0.93775(14)	0.1805(5)	1.2486(3)	0.044(2)	0.053(3)	0.055(2)	−0.0092(19)	−0.0040(17)	0.0018(18)
C12	0.98328(14)	0.1552(5)	1.3538(3)	0.059(2)	0.087(3)	0.062(2)	−0.017(2)	−0.0236(19)	0.009(2)
C13	0.48748(13)	0.1179(4)	0.7701(3)	0.0314(18)	0.057(2)	0.045(2)	−0.0011(16)	−0.0095(15)	0.0000(15)
C14	0.44018(13)	0.0811(4)	0.8353(3)	0.041(2)	0.078(3)	0.044(2)	0.0011(17)	0.0028(16)	0.0015(17)
C15	0.38385(14)	0.0719(5)	0.7754(3)	0.041(2)	0.078(3)	0.052(2)	0.0018(18)	0.0060(17)	−0.0024(17)
C16	0.37415(13)	0.0955(4)	0.6506(3)	0.0352(18)	0.047(2)	0.053(2)	−0.0024(16)	−0.0029(16)	0.0004(14)
C17	0.42307(14)	0.1266(5)	0.5855(3)	0.048(2)	0.087(3)	0.042(2)	0.0055(18)	−0.0021(17)	−0.0009(18)
C18	0.47984(14)	0.1398(5)	0.6448(3)	0.036(2)	0.099(3)	0.052(2)	0.011(2)	−0.0007(17)	−0.0079(18)
C19	0.31273(13)	0.0915(4)	0.5908(3)	0.042(2)	0.054(2)	0.055(2)	−0.0037(17)	0.0010(16)	−0.0029(16)
C20	0.29584(14)	0.1175(4)	0.4741(3)	0.045(2)	0.065(3)	0.052(2)	−0.0024(17)	0.0021(17)	0.0035(16)
C21	0.23411(13)	0.1164(4)	0.4170(3)	0.044(2)	0.056(2)	0.048(2)	−0.0095(17)	−0.0057(17)	0.0085(16)
C22	0.18461(14)	0.0576(5)	0.4879(3)	0.046(2)	0.067(3)	0.074(3)	−0.0063(19)	−0.0012(19)	0.0053(17)

Table S8. Atomic coordinates and displacement parameters ($\text{\AA}^2$) for 2-((*E*)-3-oxobut-1-en-1-yl)phenyl(*E*)-3-(4-acetoxy-3-methoxyphenyl)acrylate Compound 6.

	x	y	z	U11	U22	U33	U23	U13	U12
O1	0.8087(2)	1.14704(8)	0.21564(8)	0.0337(8)	0.0428(9)	0.0381(9)	−0.0123(7)	−0.0022(7)	−0.0081(6)
O2	1.0179(2)	1.10146(8)	0.12438(9)	0.0414(9)	0.0458(10)	0.0548(11)	−0.0166(8)	0.0099(8)	−0.0136(7)
O3	0.4285(2)	0.76878(8)	−0.04855(8)	0.0396(8)	0.0480(9)	0.0365(9)	−0.0138(8)	0.0064(7)	−0.0144(7)
O4	0.0599(2)	0.75979(8)	0.02750(8)	0.0302(7)	0.0364(9)	0.0405(9)	0.0019(7)	−0.0048(7)	−0.0099(6)
O5	0.2711(3)	0.66795(9)	0.07869(10)	0.0668(10)	0.0440(10)	0.0697(13)	0.0152(9)	−0.0306(10)	−0.0112(8)
O6	1.1927(3)	0.95602(12)	0.36514(13)	0.0908(14)	0.0686(14)	0.122(2)	0.0332(13)	−0.0379(14)	−0.0169(12)
C1	0.8521(3)	1.09764(12)	0.15923(12)	0.0328(11)	0.0332(12)	0.0317(13)	−0.0009(10)	−0.0054(10)	−0.0011(9)
C2	0.6731(3)	1.04253(11)	0.14947(11)	0.0303(10)	0.0346(12)	0.0311(13)	0.0019(10)	−0.0017(9)	−0.0048(9)
C3	0.5117(3)	0.93235(11)	0.07856(11)	0.0294(10)	0.0306(11)	0.0334(13)	0.0054(10)	−0.0029(9)	−0.0003(9)
C4	0.5117(3)	0.93235(11)	0.07856(11)	0.0269(10)	0.0282(11)	0.0277(12)	0.0045(9)	−0.0048(9)	−0.0020(8)
C5	0.5553(3)	0.87992(11)	0.02240(11)	0.0248(10)	0.0350(12)	0.0280(12)	0.0027(10)	−0.0008(9)	−0.0030(8)
C6	0.4067(3)	0.82178(11)	0.00555(11)	0.0313(10)	0.0334(12)	0.0242(12)	−0.0009(10)	−0.0026(9)	−0.0029(9)
C7	0.2159(3)	0.81603(11)	0.04618(11)	0.0241(10)	0.0328(12)	0.0304(12)	0.0025(10)	−0.0056(9)	−0.0054(8)
C8	0.1687(3)	0.86785(12)	0.10033(12)	0.0247(10)	0.0421(13)	0.0374(13)	−0.0006(11)	0.0038(9)	−0.0013(9)
C9	0.3152(3)	0.92658(11)	0.11677(12)	0.0296(10)	0.0359(12)	0.0354(13)	−0.0041(10)	0.0005(9)	−0.0002(9)
C10	0.6137(3)	0.77711(13)	−0.09509(12)	0.0341(11)	0.0506(14)	0.0364(13)	−0.0112(11)	0.0022(10)	−0.0011(10)
C11	0.1124(3)	0.68530(13)	0.04338(12)	0.0455(13)	0.0418(14)	0.0331(13)	0.0068(11)	−0.0036(11)	−0.0104(11)
C12	−0.0514(4)	0.63159(13)	0.01024(14)	0.0626(15)	0.0463(15)	0.0495(16)	0.0039(12)	−0.0105(13)	−0.0222(12)
C13	0.9700(3)	1.20315(12)	0.23232(11)	0.0339(11)	0.0387(13)	0.0310(13)	−0.0114(10)	0.0023(9)	−0.0074(9)
C14	1.1500(3)	1.18261(13)	0.27571(12)	0.0372(11)	0.0456(14)	0.0285(12)	−0.0061(11)	0.0008(10)	−0.0069(10)
C15	1.3007(3)	1.24172(14)	0.29390(12)	0.0406(12)	0.0546(15)	0.0292(13)	−0.0109(12)	−0.0021(10)	−0.0068(11)
C16	1.2691(4)	1.31562(13)	0.26917(12)	0.0456(13)	0.0457(15)	0.0390(14)	−0.0168(12)	0.0025(11)	−0.0108(11)
C17	1.0865(3)	1.33378(13)	0.22653(13)	0.0508(13)	0.0384(13)	0.0450(15)	−0.0112(11)	0.0068(12)	−0.0041(11)
C18	0.9357(3)	1.27684(12)	0.20760(13)	0.0391(12)	0.0435(14)	0.0401(14)	−0.0096(12)	0.0008(10)	−0.0011(10)
C19	1.1749(3)	1.10422(13)	0.30289(12)	0.0423(12)	0.0520(15)	0.0352(14)	−0.0034(12)	−0.0046(11)	−0.0101(11)
C20	1.3557(4)	1.07276(14)	0.33088(13)	0.0405(12)	0.0527(15)	0.0467(15)	−0.0085(12)	−0.0050(11)	−0.0014(11)
C21	1.3586(4)	0.99539(15)	0.36229(15)	0.0619(16)	0.0517(16)	0.0623(18)	−0.0091(14)	−0.0154(14)	0.0012(14)
C22	1.5648(5)	0.96676(18)	0.3955(2)	0.083(2)	0.070(2)	0.130(3)	−0.007(2)	−0.036(2)	0.0279(17)

Table S9. Atomic coordinates and displacement parameters ($\text{\AA}^2$) for 2-methoxy-4-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 7.

	x	y	z	U11	U22	U33	U23	U13	U12
O1	0.2323(3)	0.5569(2)	−0.17913(18)	0.0728(13)	0.1141(16)	0.0735(13)	−0.0331(11)	−0.0242(10)	0.0197(12)
O2	−0.0736(3)	0.2035(2)	0.50660(15)	0.0700(12)	0.1016(14)	0.0464(10)	−0.0216(9)	−0.0124(8)	0.0164(10)
O3	0.1935(3)	0.05867(18)	0.55160(15)	0.0945(14)	0.0678(11)	0.0549(10)	−0.0132(8)	−0.0341(10)	0.0060(9)
O4	0.3093(3)	0.2342(2)	0.58885(18)	0.1180(18)	0.0912(15)	0.0639(12)	−0.0161(10)	−0.0306(12)	−0.0233(13)
C1	0.4913(4)	0.4753(3)	−0.2915(3)	0.087(2)	0.095(2)	0.0656(17)	−0.0306(15)	−0.0171(15)	0.0176(17)
C2	0.3551(4)	0.4832(3)	−0.1741(2)	0.0703(18)	0.0622(15)	0.0617(15)	−0.0192(12)	−0.0245(13)	−0.0006(13)
C3	0.3750(4)	0.3988(3)	−0.0553(2)	0.0716(18)	0.0733(17)	0.0649(16)	−0.0244(13)	−0.0200(14)	0.0115(13)
C4	0.2467(4)	0.3818(3)	0.0526(2)	0.0630(16)	0.0687(15)	0.0630(15)	−0.0270(12)	−0.0188(12)	0.0023(12)
C5	0.2440(4)	0.2996(3)	0.1813(2)	0.0699(17)	0.0596(14)	0.0511(13)	−0.0182(11)	−0.0162(12)	0.0070(12)
C6	0.0893(4)	0.2927(3)	0.2810(2)	0.0676(16)	0.0638(14)	0.0516(14)	−0.0202(11)	−0.0178(12)	0.0143(12)
C7	0.0741(3)	0.2166(3)	0.4044(2)	0.0640(15)	0.0629(14)	0.0457(13)	−0.0186(11)	−0.0131(11)	0.0060(12)
C8	0.2153(4)	0.1461(3)	0.4282(2)	0.0709(17)	0.0592(14)	0.0484(13)	−0.0154(11)	−0.0220(12)	0.0060(12)
C9	0.3696(4)	0.1521(3)	0.3316(2)	0.0705(17)	0.0731(16)	0.0688(17)	−0.0258(13)	−0.0242(14)	0.0170(13)
C10	0.3849(4)	0.2293(3)	0.2079(2)	0.0670(17)	0.0755(17)	0.0571(15)	−0.0255(13)	−0.0083(12)	0.0086(13)
C11	−0.2245(4)	0.2692(4)	0.4842(3)	0.076(2)	0.140(3)	0.0686(18)	−0.0384(19)	−0.0179(15)	0.036(2)
C12	0.2436(3)	0.1150(3)	0.6251(2)	0.0535(15)	0.0755(17)	0.0576(15)	−0.0227(13)	−0.0173(12)	0.0092(13)
C13	0.2046(3)	0.0069(3)	0.7512(2)	0.0600(16)	0.0700(16)	0.0577(15)	−0.0191(12)	−0.0215(12)	0.0104(12)
C14	0.2474(3)	0.0320(3)	0.8396(2)	0.0566(15)	0.0699(16)	0.0588(15)	−0.0196(12)	−0.0183(12)	0.0069(12)
C15	0.2126(3)	−0.0657(3)	0.9686(2)	0.0475(13)	0.0631(14)	0.0552(14)	−0.0198(11)	−0.0150(10)	0.0114(11)
C16	0.1307(4)	−0.2030(3)	1.0122(2)	0.0760(18)	0.0673(16)	0.0644(16)	−0.0274(13)	−0.0273(13)	0.0091(13)
C17	0.0947(4)	−0.2897(3)	1.1360(3)	0.086(2)	0.0576(15)	0.0698(17)	−0.0142(13)	−0.0263(15)	0.0081(13)
C18	0.1407(4)	−0.2406(3)	1.2169(2)	0.0781(19)	0.0759(18)	0.0568(15)	−0.0179(13)	−0.0265(13)	0.0190(14)
C19	0.2228(4)	−0.1056(3)	1.1750(3)	0.084(2)	0.086(2)	0.0639(17)	−0.0300(15)	−0.0348(15)	0.0114(15)
C20	0.2588(4)	−0.0186(3)	1.0522(2)	0.0680(17)	0.0693(16)	0.0659(16)	−0.0244(13)	−0.0253(13)	0.0021(13)

Table S10. Atomic coordinates and displacement parameters ($\text{\AA}^2$) for 4-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 8.

	x	y	z	U11	U22	U33	U23	U13	U12
O1	0.05200(6)	0.8672(3)	0.09397(5)	0.0483(6)	0.0916(9)	0.0582(7)	0.0147(6)	0.0230(5)	0.0029(6)
O2	0.12666(7)	0.5815(4)	0.18862(7)	0.0635(8)	0.1317(12)	0.0810(8)	0.0430(9)	0.0344(7)	0.0164(7)
C1	0.12022(9)	0.7433(4)	0.13961(9)	0.0529(9)	0.0744(11)	0.0535(9)	0.0016(8)	0.0212(8)	−0.0012(8)
C2	0.18077(9)	0.8307(4)	0.11857(8)	0.0534(9)	0.0679(11)	0.0580(9)	0.0038(8)	0.0231(8)	−0.0024(8)
C3	0.25127(9)	0.7194(4)	0.15217(9)	0.0552(10)	0.0682(10)	0.0578(9)	0.0020(8)	0.0216(8)	−0.0018(8)
C4	0.31704(9)	0.7787(4)	0.13661(8)	0.0515(9)	0.0569(9)	0.0592(9)	0.0075(8)	0.0214(8)	−0.0047(7)
C5	0.38830(9)	0.6579(5)	0.18087(9)	0.0556(10)	0.0825(12)	0.0689(11)	0.0020(9)	0.0228(8)	0.0020(9)
C6	0.45123(10)	0.7052(5)	0.16764(11)	0.0520(10)	0.0909(14)	0.0900(13)	0.0074(11)	0.0256(10)	0.0018(9)
C7	0.44483(11)	0.8719(5)	0.11012(11)	0.0633(12)	0.0863(14)	0.1055(15)	0.0110(12)	0.0484(11)	−0.0095(10)
C8	0.37465(12)	0.9943(5)	0.06524(11)	0.0814(13)	0.0872(14)	0.0880(13)	0.0055(11)	0.0472(11)	−0.0064(11)
C9	0.31144(10)	0.9488(4)	0.07823(9)	0.0562(9)	0.0688(11)	0.0726(11)	0.0032(9)	0.0257(8)	−0.0007(8)
C10	0.01369(9)	0.8028(4)	0.10433(8)	0.0510(9)	0.0654(10)	0.0527(9)	0.0095(8)	0.0260(7)	0.0077(7)
C11	0.02211(10)	0.9222(4)	0.16110(9)	0.0701(11)	0.0770(12)	0.0579(10)	0.0024(9)	0.0264(8)	0.0076(9)
C12	0.09008(12)	0.8665(5)	0.16624(10)	0.0882(13)	0.0876(13)	0.0670(11)	0.0154(10)	0.0492(11)	0.0317(11)
C13	0.14920(10)	0.6911(5)	0.11594(10)	0.0605(11)	0.0764(12)	0.0804(12)	0.0245(10)	0.0401(10)	0.0213(9)
C14	0.13847(10)	0.5790(5)	0.05933(9)	0.0520(9)	0.0800(12)	0.0754(11)	0.0035(9)	0.0276(8)	0.0025(8)
C15	0.07130(9)	0.6337(4)	0.05342(8)	0.0540(9)	0.0762(11)	0.0551(9)	0.0004(8)	0.0248(8)	0.0057(8)
C16	0.2277(2)	0.5980(11)	0.1108(2)	0.057(2)	0.074(2)	0.064(2)	0.0050(19)	0.028(2)	0.0077(18)
C17	0.25181(17)	0.6739(8)	0.15888(16)	0.0595(16)	0.094(2)	0.0694(18)	0.0042(15)	0.0322(14)	0.0081(14)
C18	0.3275(2)	0.5985(12)	0.1546(2)	0.0650(18)	0.102(3)	0.076(3)	0.011(2)	0.043(2)	0.0050(17)
C19	0.3852(4)	0.428(3)	0.0955(4)	0.079(3)	0.125(4)	0.127(5)	0.030(4)	0.063(3)	−0.021(3)
O3	0.3440(2)	0.6979(11)	0.20009(18)	0.0830(19)	0.162(4)	0.102(2)	0.0204(19)	0.0562(15)	−0.002(2)
C16A	0.2078(3)	0.6756(19)	0.1415(3)	0.059(3)	0.084(4)	0.059(3)	0.010(3)	0.031(3)	0.013(2)
C17	0.2735(3)	0.5249(14)	0.1018(3)	0.065(3)	0.092(3)	0.077(3)	0.006(2)	0.036(2)	0.006(2)
C18A	0.3382(3)	0.4873(19)	0.1185(3)	0.064(3)	0.105(4)	0.088(4)	0.008(3)	0.040(3)	0.002(3)
C19A	0.3335(5)	0.572(3)	0.1854(4)	0.087(4)	0.115(6)	0.089(4)	0.008(4)	0.048(3)	0.026(4)
O3A	0.3981(5)	0.366(4)	0.0741(5)	0.098(4)	0.171(7)	0.115(5)	0.020(4)	0.047(3)	0.039(4)

Table S11. Atomic coordinates and displacement parameters ($\text{\AA}^2$) for 3-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 9.

	x	y	z	U11	U22	U33	U23	U13	U12
O1	0.24020(4)	0.2592(2)	0.12000(18)	0.0432(8)	0.0481(8)	0.0817(10)	−0.0014(7)	0.0044(7)	−0.0022(6)
O2	0.20497(5)	0.5635(3)	0.2063(2)	0.0684(11)	0.0481(10)	0.1150(14)	−0.0111(9)	0.0264(9)	−0.0057(7)
O3	0.44225(5)	−0.0922(3)	0.3741(3)	0.0667(11)	0.0723(12)	0.1323(16)	0.0165(11)	−0.0035(10)	0.0103(9)
C1	0.20817(6)	0.3590(4)	0.1845(3)	0.0454(12)	0.0499(13)	0.0638(13)	−0.0015(10)	−0.0012(9)	0.0012(10)
C2	0.17908(6)	0.1821(3)	0.2234(2)	0.0471(12)	0.0452(11)	0.0658(13)	0.0008(10)	−0.0036(10)	−0.0007(9)
C3	0.14329(6)	0.2458(3)	0.2648(2)	0.0531(13)	0.0460(12)	0.0604(13)	0.0005(9)	0.0023(10)	−0.0001(9)
C4	0.11156(6)	0.0952(3)	0.3183(2)	0.0509(12)	0.0467(11)	0.0489(11)	−0.0031(9)	0.0004(9)	−0.0010(9)
C5	0.07164(6)	0.1659(4)	0.2934(3)	0.0534(13)	0.0578(13)	0.0704(14)	−0.0033(11)	0.0075(10)	0.0045(10)
C6	0.04126(7)	0.0268(4)	0.3432(3)	0.0519(14)	0.0806(18)	0.0847(17)	−0.0098(14)	0.0144(12)	−0.0016(12)
C7	0.05044(8)	−0.1810(5)	0.4210(3)	0.0707(17)	0.0783(18)	0.0712(15)	−0.0070(13)	0.0209(12)	−0.0206(14)
C8	0.08988(7)	−0.2536(4)	0.4473(3)	0.0794(17)	0.0617(14)	0.0587(14)	0.0065(11)	0.0043(12)	−0.0125(12)
C9	0.12017(7)	−0.1168(4)	0.3958(3)	0.0569(13)	0.0556(13)	0.0590(13)	0.0012(10)	−0.0023(10)	−0.0017(10)
C10	0.27320(6)	0.4008(3)	0.0875(2)	0.0465(12)	0.0477(12)	0.0532(12)	−0.0027(9)	0.0042(9)	−0.0025(9)
C11	0.31041(6)	0.3225(3)	0.1538(2)	0.0484(11)	0.0433(11)	0.0510(11)	0.0014(9)	0.0067(9)	0.0037(9)
C12	0.34479(6)	0.4513(3)	0.1275(2)	0.0491(12)	0.0492(12)	0.0464(11)	−0.0026(9)	0.0087(9)	0.0007(9)
C13	0.33992(6)	0.6535(4)	0.0335(2)	0.0565(13)	0.0557(13)	0.0569(12)	0.0005(10)	0.0122(10)	−0.0057(10)
C14	0.30235(7)	0.7247(4)	−0.0343(3)	0.0687(15)	0.0576(13)	0.0587(13)	0.0127(10)	0.0081(11)	0.0028(11)
C15	0.26843(6)	0.5982(4)	−0.0077(2)	0.0541(13)	0.0593(14)	0.0567(13)	0.0076(10)	−0.0019(10)	0.0058(10)
C16	0.38518(6)	0.3818(4)	0.1988(2)	0.0452(11)	0.0589(13)	0.0574(12)	−0.0006(10)	0.0093(9)	−0.0042(10)
C17	0.39593(6)	0.1753(4)	0.2561(3)	0.0479(12)	0.0607(14)	0.0629(13)	0.0006(11)	0.0054(10)	−0.0038(10)
C18	0.43642(6)	0.1074(4)	0.3308(3)	0.0481(13)	0.0693(16)	0.0638(13)	0.0021(11)	0.0055(10)	0.0062(11)
C19	0.46898(7)	0.2843(5)	0.3540(3)	0.0524(14)	0.0879(18)	0.0980(19)	0.0023(15)	−0.0030(12)	−0.00

Table S12. Atomic coordinates and displacement parameters ($\text{\AA}^2$) for 2-((*E*)-3-oxobut-1-en-1-yl)phenyl cinnamate. Compound 10.

	x	y	z	U11	U22	U33	U23	U13	U12
O1	0.0677(6)	0.6038(2)	0.08252(19)	0.078(3)	0.084(3)	0.057(2)	−0.002(2)	0.000(2)	−0.020(2)
O2	0.3081(6)	0.6869(2)	0.15277(19)	0.093(3)	0.095(3)	0.059(2)	−0.018(2)	0.001(2)	−0.018(2)
C1	0.1339(11)	0.6447(4)	0.1456(3)	0.090(5)	0.060(4)	0.064(4)	0.014(4)	0.014(4)	0.013(4)
C2	−0.0532(10)	0.6271(3)	0.2042(3)	0.093(5)	0.080(4)	0.064(4)	0.001(3)	−0.017(4)	−0.013(4)
C3	−0.0420(9)	0.6584(3)	0.2682(3)	0.082(4)	0.060(4)	0.070(4)	−0.003(3)	−0.029(4)	0.005(3)
C4	−0.2119(9)	0.6451(3)	0.3291(3)	0.060(4)	0.063(4)	0.053(4)	0.014(3)	0.011(3)	0.001(3)
C5	−0.4105(10)	0.5931(3)	0.3222(3)	0.074(4)	0.078(4)	0.060(4)	0.002(3)	0.003(3)	0.000(3)
C6	−0.5619(9)	0.5824(3)	0.3811(3)	0.074(4)	0.085(4)	0.074(4)	0.013(4)	0.003(4)	−0.011(4)
C7	−0.5167(9)	0.6247(3)	0.4466(3)	0.071(5)	0.090(5)	0.078(4)	0.013(4)	0.028(4)	0.003(4)
C8	−0.3214(10)	0.6772(3)	0.4536(3)	0.101(5)	0.095(5)	0.062(4)	−0.005(3)	0.019(4)	−0.003(4)
C9	−0.1723(9)	0.6869(3)	0.3952(3)	0.075(4)	0.081(4)	0.072(4)	−0.003(4)	0.007(4)	−0.014(3)
C10	0.2159(9)	0.6119(3)	0.0217(2)	0.065(4)	0.071(4)	0.034(3)	−0.003(3)	−0.001(3)	−0.018(3)
C11	0.4146(10)	0.5594(3)	0.0173(3)	0.067(4)	0.058(4)	0.062(4)	−0.008(3)	−0.014(3)	−0.001(3)
C12	0.5458(9)	0.5686(3)	−0.0466(3)	0.064(4)	0.079(4)	0.099(5)	−0.030(4)	−0.011(4)	0.017(4)
C13	0.4796(10)	0.6256(4)	−0.1024(3)	0.081(5)	0.086(5)	0.066(4)	−0.010(4)	0.011(4)	−0.009(4)
C14	0.2826(10)	0.6751(3)	−0.0952(3)	0.092(5)	0.067(4)	0.056(3)	0.009(3)	−0.013(4)	−0.013(4)
C15	0.1474(8)	0.6690(3)	−0.0323(3)	0.056(4)	0.066(4)	0.056(3)	0.004(3)	0.002(3)	−0.003(3)
C16	0.435(3)	0.4959(10)	0.0832(7)	0.065(6)	0.060(6)	0.052(7)	−0.011(5)	−0.004(5)	0.005(6)
C17	0.633(2)	0.4554(7)	0.0991(6)	0.078(6)	0.065(5)	0.060(5)	−0.006(3)	−0.009(5)	0.012(5)
C18	0.674(3)	0.3944(16)	0.1628(11)	0.093(6)	0.075(5)	0.067(5)	−0.001(4)	−0.013(6)	0.014(6)
C19	0.468(3)	0.3627(16)	0.2081(9)	0.114(6)	0.074(7)	0.057(10)	−0.009(7)	−0.012(7)	−0.006(7)
O3	0.872(2)	0.3685(10)	0.1731(7)	0.102(6)	0.126(6)	0.105(8)	0.042(6)	−0.020(6)	0.024(6)
C16A	0.545(3)	0.4971(12)	0.0640(9)	0.077(7)	0.066(6)	0.048(6)	−0.012(4)	−0.006(6)	0.003(7)
C17A	0.449(3)	0.4577(8)	0.1182(7)	0.078(6)	0.068(6)	0.054(6)	−0.005(4)	−0.005(5)	0.006(6)
C18A	0.596(3)	0.3955(17)	0.1628(12)	0.091(6)	0.075(5)	0.064(5)	−0.003(4)	−0.014(5)	0.010(6)
C19A	0.481(4)	0.3615(19)	0.2329(11)	0.118(8)	0.086(8)	0.056(10)	0.006(8)	−0.024(7)	0.008(7)
O3A	0.794(2)	0.3776(13)	0.1469(9)	0.095(8)	0.130(8)	0.091(8)	0.021(7)	−0.020(6)	0.027(7)