

# S & N LABS

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14 December 2020

Job Number:	24569c
PO Number:	verbal

Quality Control  
ANG Sciences  
P.O. Box 4010  
San Luis Obispo, California 93403

## REPORT OF ANALYSIS

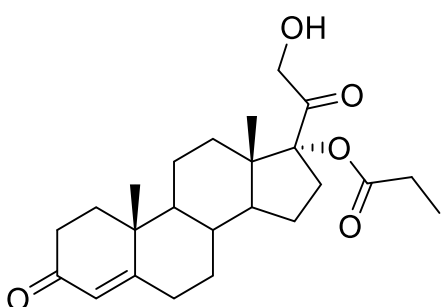
One small jar labeled "CB0301-201015" was received on 4 December 2020. The powder in the jar was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 241nm. The results are summarized in the table below.

Sample	Chromatographic Purity (area %)
CB0301-201015	99.6

Neil E. Spingarn, Ph.D.  
President

## Certificate of Analysis

Product Name:	Lot#:	NuMega Reference #:
CB0301	201015	2008ANGS.754A, 2008ANGS.687A

Chemical Name	
ethyl ((10R,13S,17R)-17-(2-hydroxyacetyl)-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl) carbonate	
Chemical Structure	CAS# and Theoretical Analysis
	Name: CB0301 CAS#: Lot#: 201015 Chemical Formula: C <sub>24</sub> H <sub>34</sub> O <sub>5</sub> Exact Mass: 402.2406 Molecular Weight: 402.5310

	Specifications/ Results
Appearance	white solid
Structure	H-1 and C-13 spectra is consistent with the spectra of CB0301 by Ferraboschi et al.
Reference	Ferraboschi, P., Legnani, L., Celasco, G., Moro, L., Ragonesi, L., & Colombo, D. (2014). A full conformational characterization of antiandrogen cortexolone-17 $\alpha$ -propionate and related compounds through theoretical calculations and nuclear magnetic resonance spectroscopy. Med. Chem. Commun., 5(7), 904–914. <a href="https://doi.org/10.1039/C4MD00049H">https://doi.org/10.1039/C4MD00049H</a>
Solubility	Chloroform
Conclusion	The results of experiments carried out on the sample are consistent with the structure of CB0301.

Certified by: Ben Shen  
Ben Shen, Ph.D.

Date: 12-11-2020

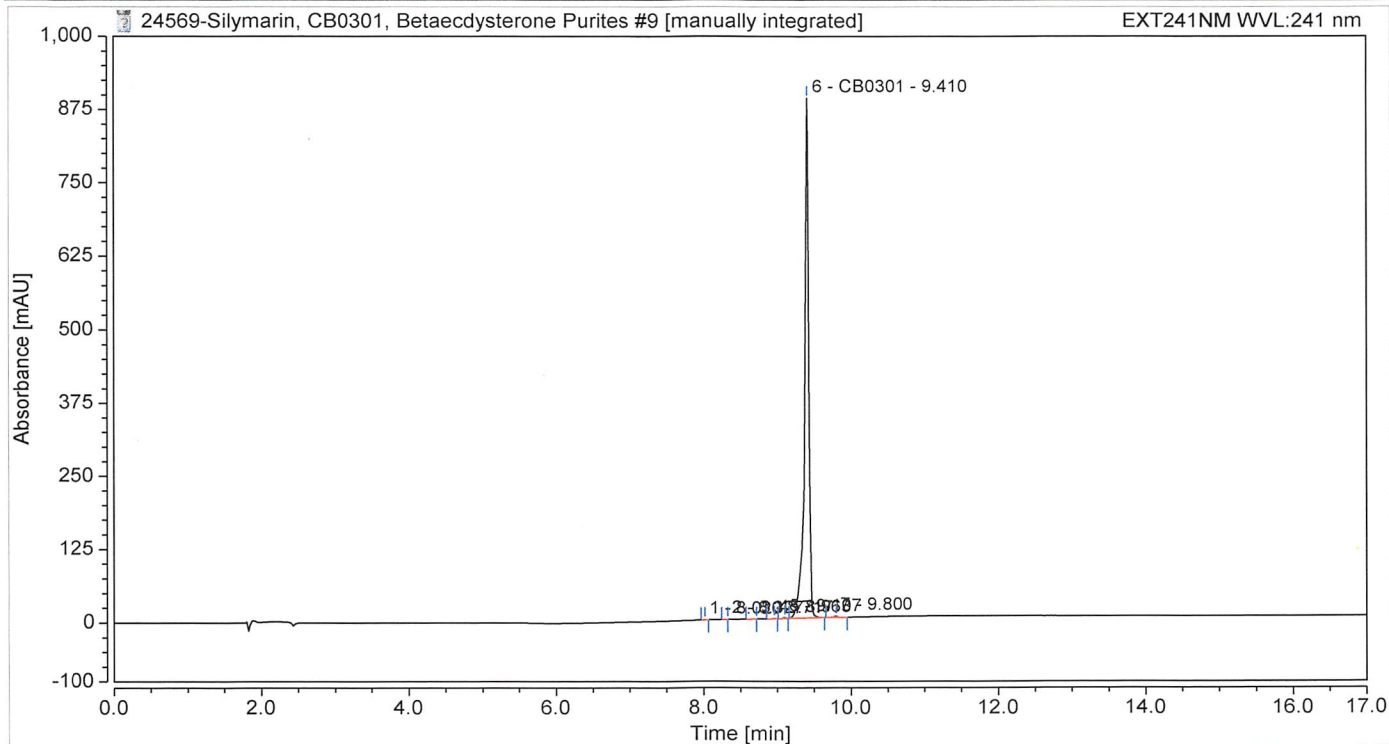
## Chromatogram and Results

### Injection Details

Injection Name: CB0301-201015; 200ppm  
Vial Number: GA2  
Injection Type: Unknown  
Calibration Level:  
Instrument Method: AC 150mm MaxRP 20min  
Processing Method: Processing Method  
Injection Date/Time: 11/Dec/20 14:22

Run Time (min): 20.00  
Injection Volume: 10.00  
Channel: EXT241NM  
Wavelength: n.a.  
Bandwidth: n.a.  
Dilution Factor: 1.0000  
Sample Weight: 1.0000

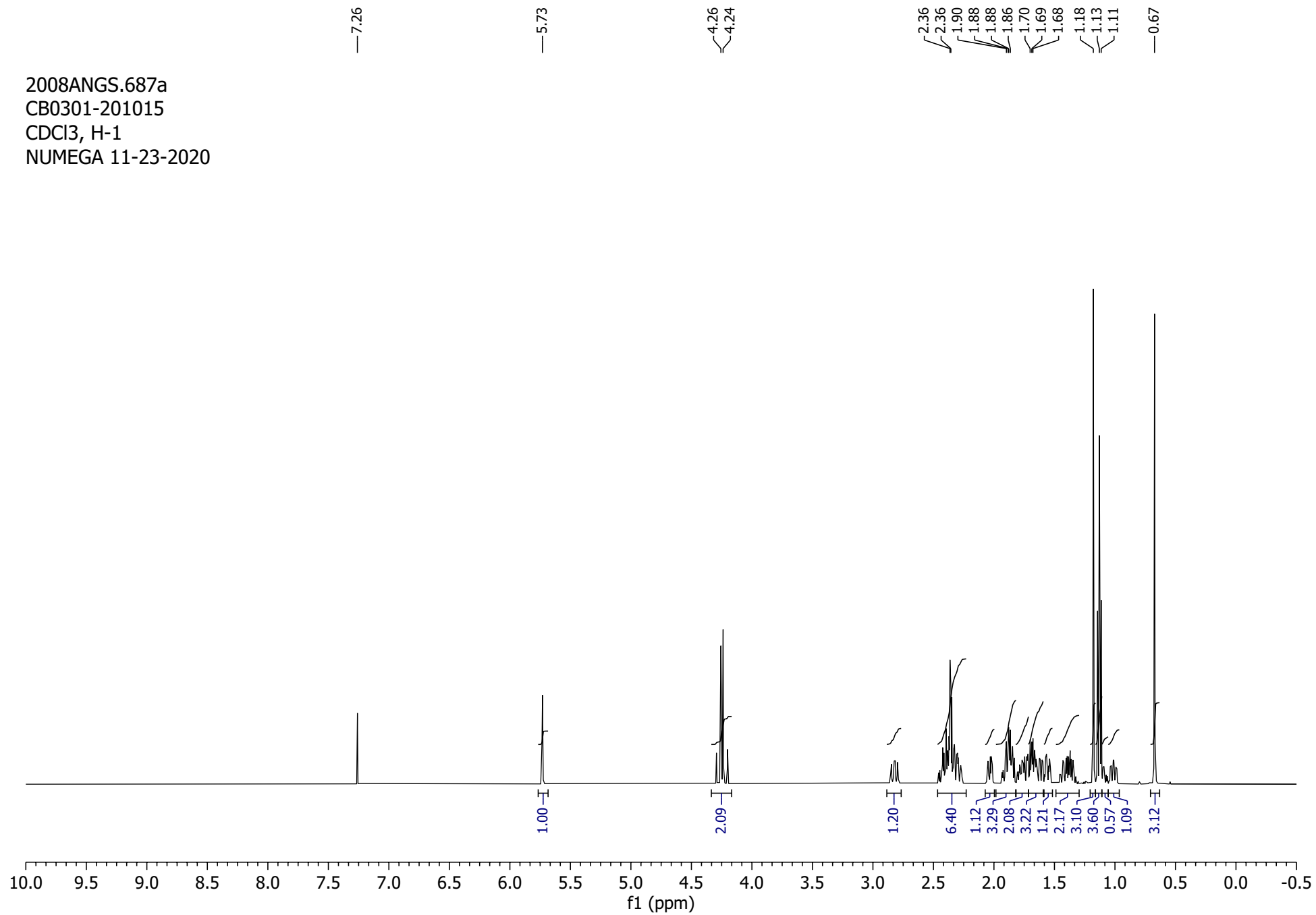
### Chromatogram



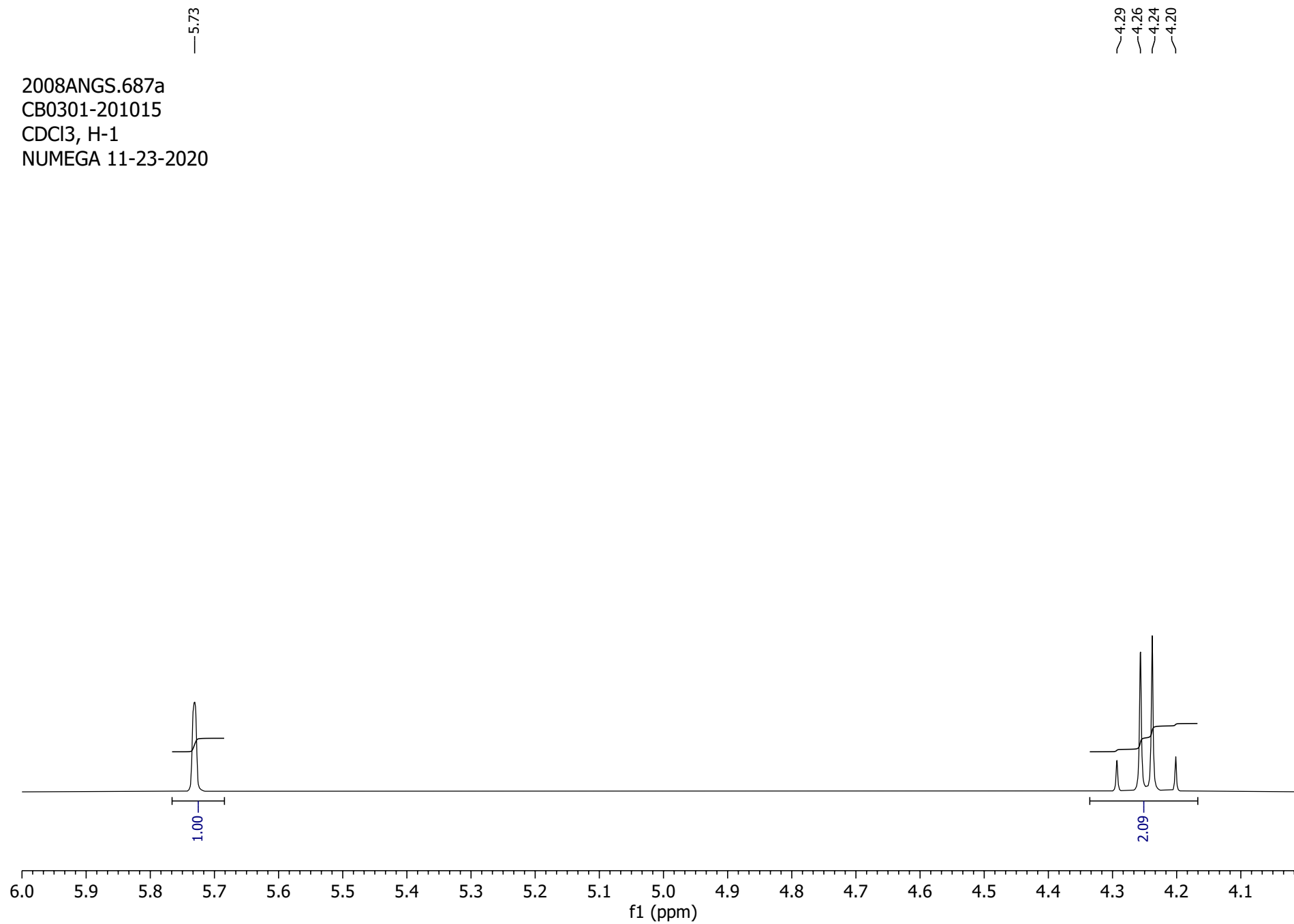
### Integration Results

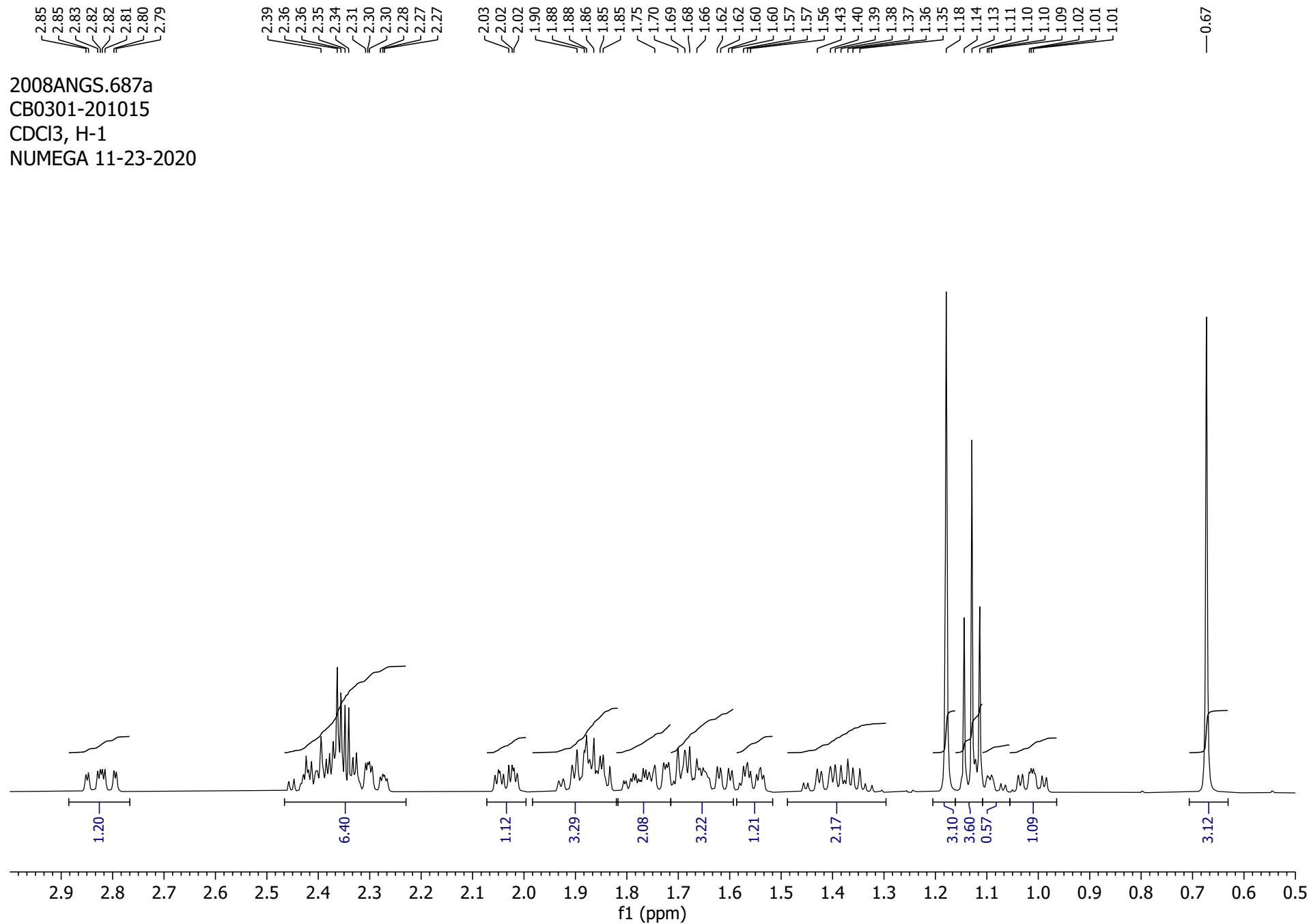
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount
1		8.020	0.011	0.243	0.02	0.03	n.a.
2		8.327	0.004	0.000	0.01	0.00	n.a.
3		8.717	0.006	0.000	0.01	0.00	n.a.
4		8.963	0.028	0.581	0.05	0.07	n.a.
5		9.107	0.068	1.395	0.12	0.16	n.a.
6	CB0301	9.410	58.078	885.799	99.58	99.55	n.a.
7		9.800	0.126	1.807	0.22	0.20	n.a.
Total:			58.321	889.825	100.00	100.00	

2008ANGS.687a  
CB0301-201015  
CDCl<sub>3</sub>, H-1  
NUMEGA 11-23-2020

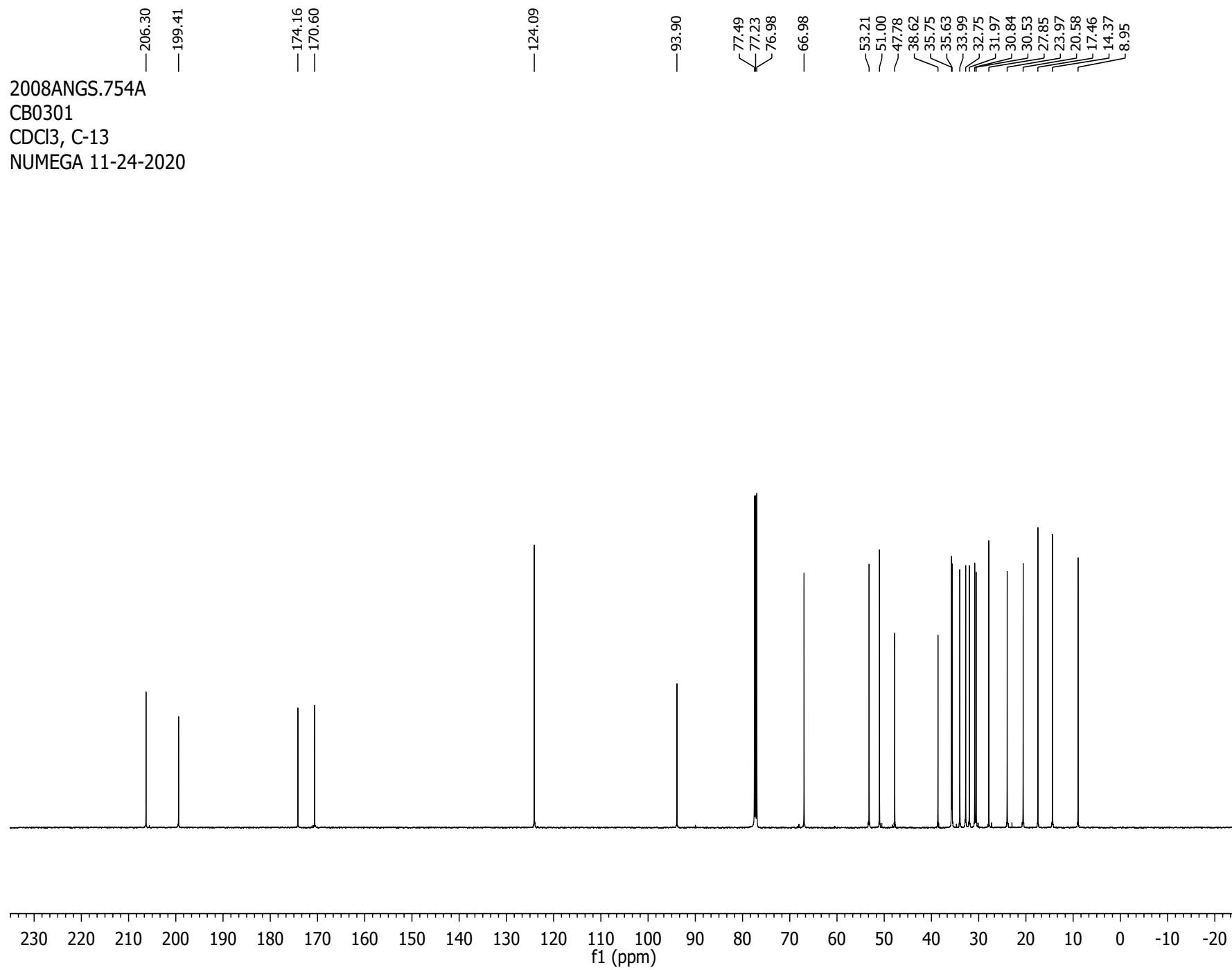


2008ANGS.687a  
CB0301-201015  
CDCl<sub>3</sub>, H-1  
NUMEGA 11-23-2020

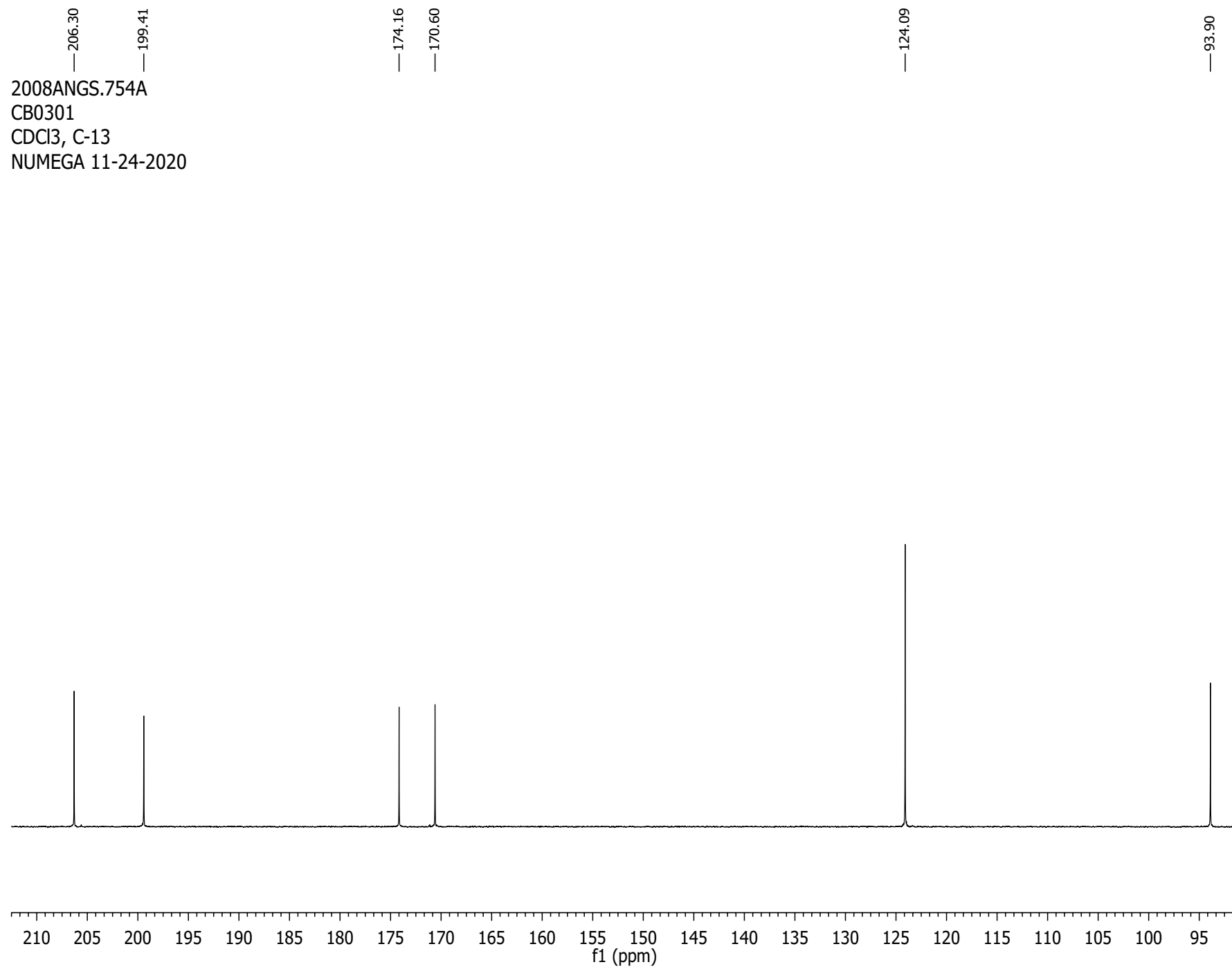




2008ANGS.754A  
CB0301  
CDCl<sub>3</sub>, C-13  
NUMEGA 11-24-2020



2008ANGS.754A  
CB0301  
CDCl<sub>3</sub>, C-13  
NUMEGA 11-24-2020





77.49  
77.23  
76.98

66.98

53.21

51.00

47.78

38.62

35.75

35.63

33.99

32.75

31.97

30.84

30.53

27.85

23.97

20.58

17.46

14.37

8.95

2008ANGS.754A  
CB0301  
CDCl<sub>3</sub>, C-13  
NUMEGA 11-24-2020

