

Electronic Supplementary Information for

“Reaction of ketone hydrazones with TeCl₄: Isolation and reaction of divinyl telluride”

By Kentaro Okuma, Yuxuan Qu, Aoi Suetome, and Noriyoshi Nagahora

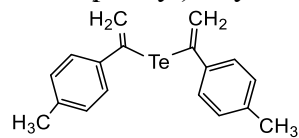
Department of Chemistry, Fukuoka University, Jonan-ku, Fukuoka 814-0180, Japan

S1 - S24 ¹H and ¹³C NMR spectra of new compounds

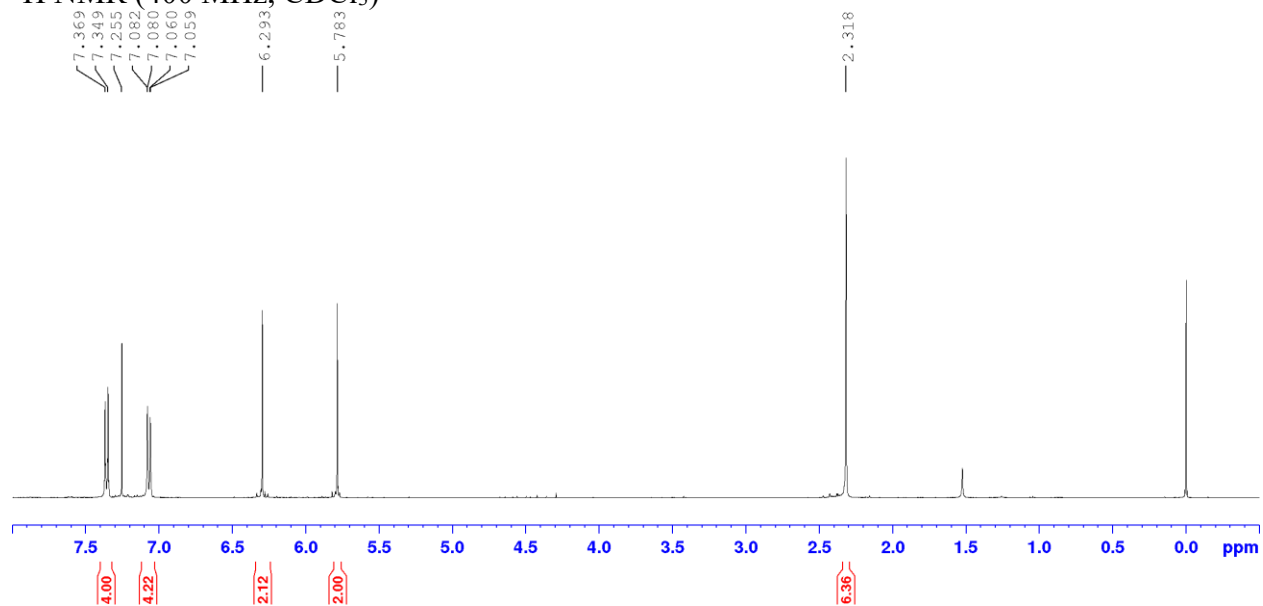
S25 - S38 X-ray crystallographic data

¹H- and ¹³C-NMR Spectra of Products

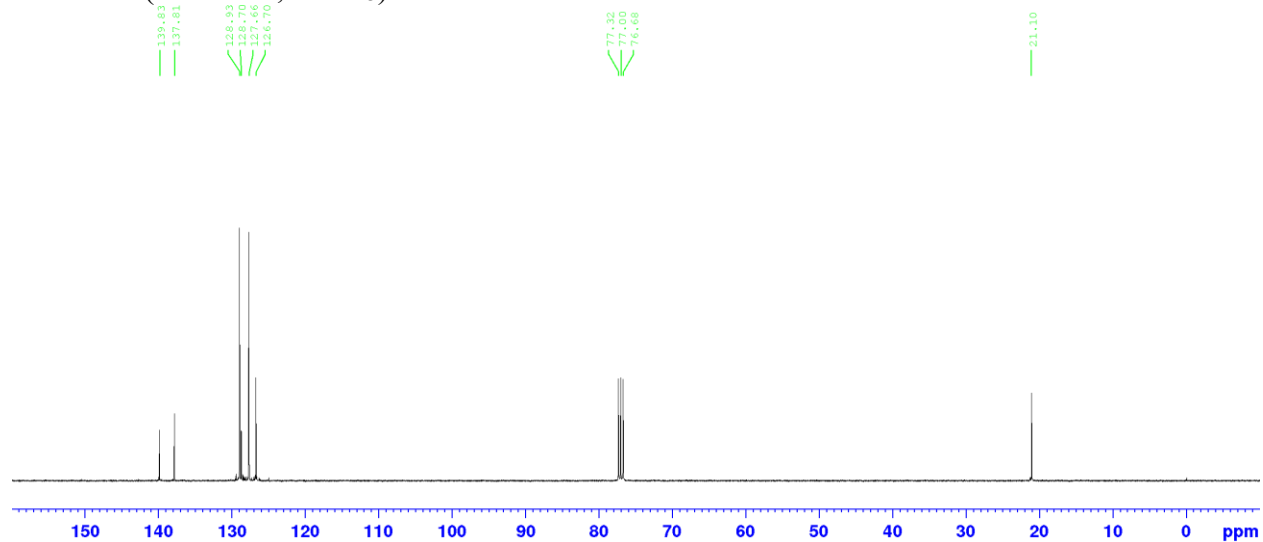
Bis-1-(*p*-tolyl)vinyl telluride **3a**:



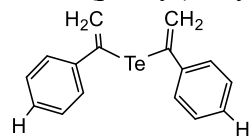
¹H NMR (400 MHz, CDCl₃)



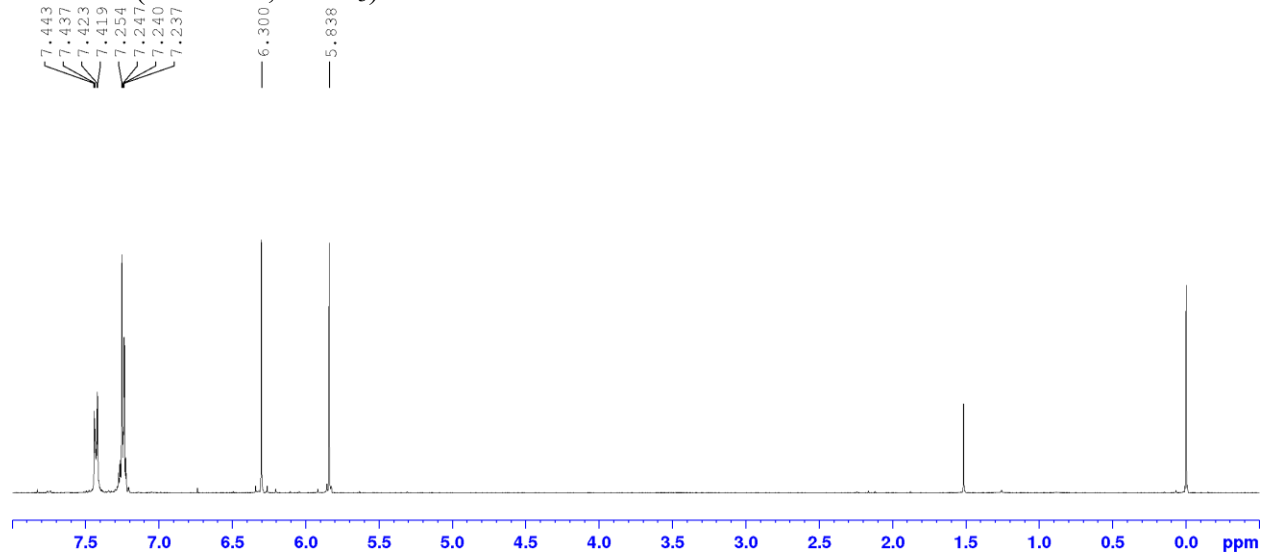
¹³C NMR (101 MHz, CDCl₃)



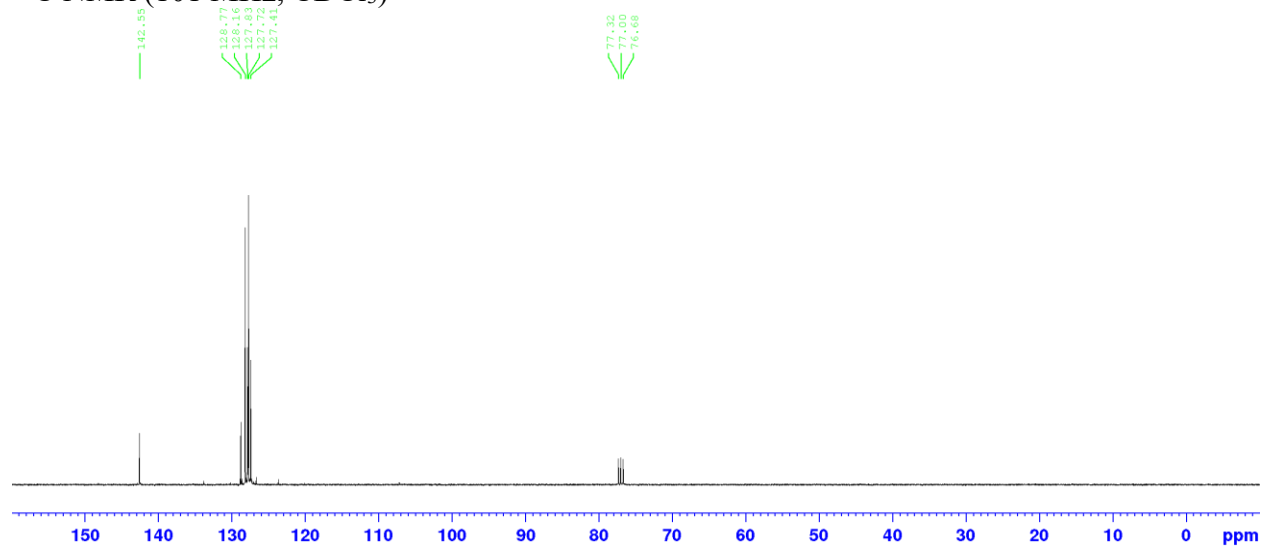
Bis-1-(phenyl)vinyl telluride **3b**:



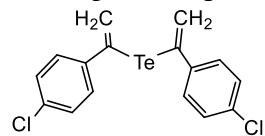
^1H NMR (400 MHz, CDCl_3)



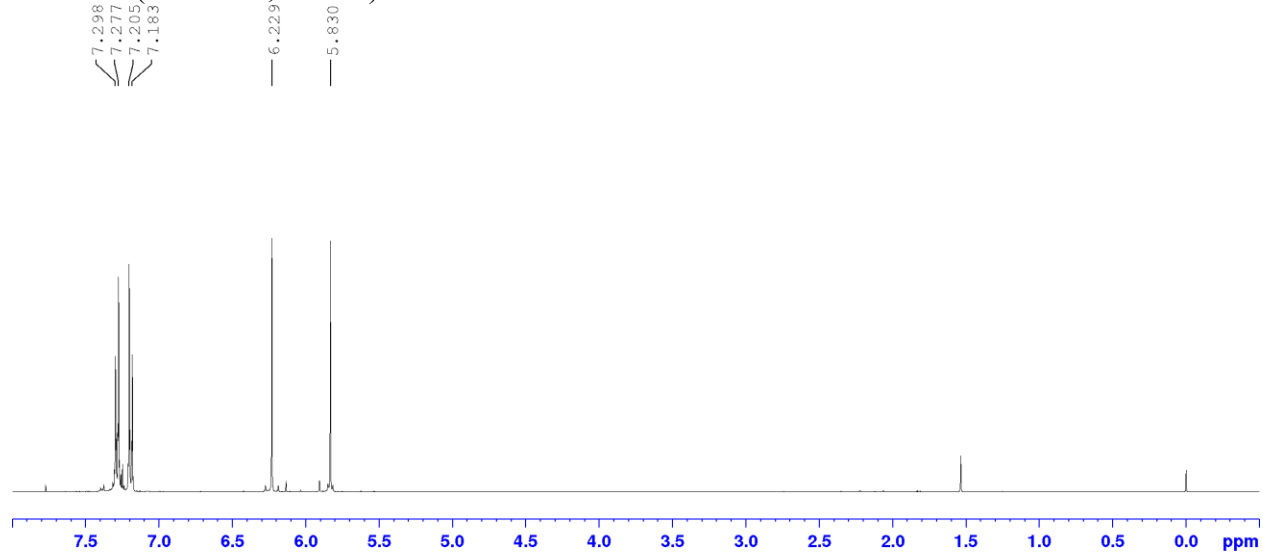
^{13}C NMR (101 MHz, CDCl_3)



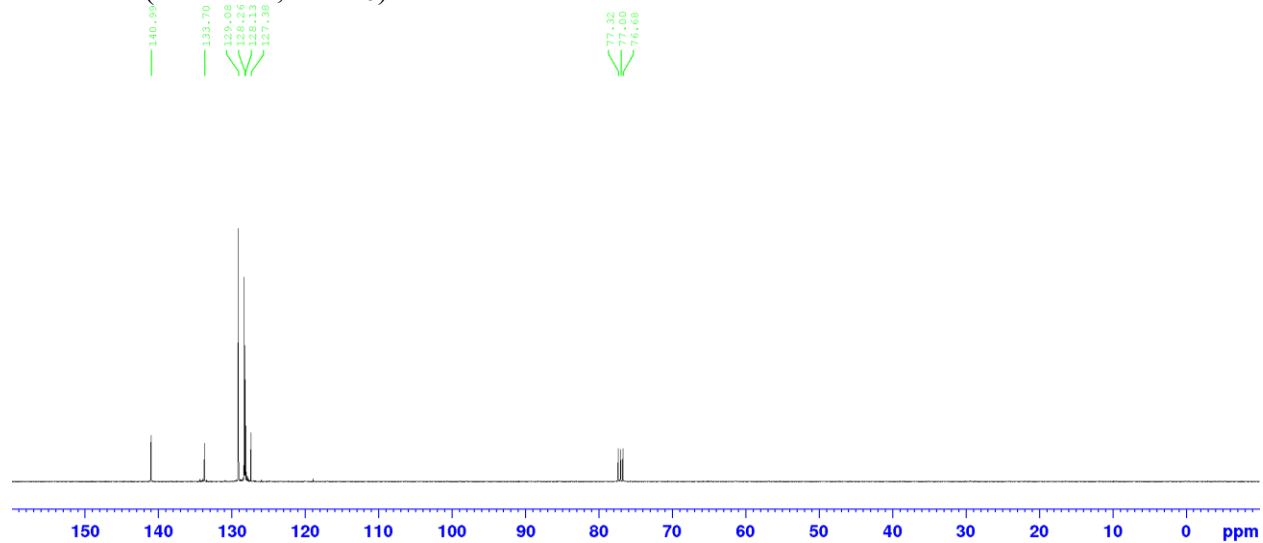
Bis-1-(*p*-chlorophenyl)vinyl telluride **3c**:



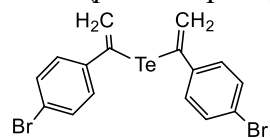
$^1\text{H NMR}$ (400 MHz, CDCl_3)



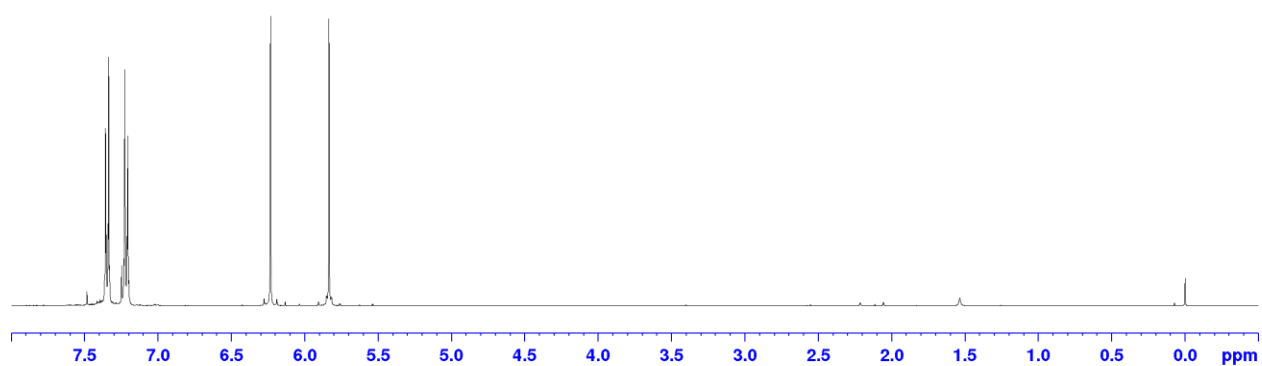
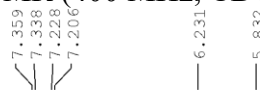
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



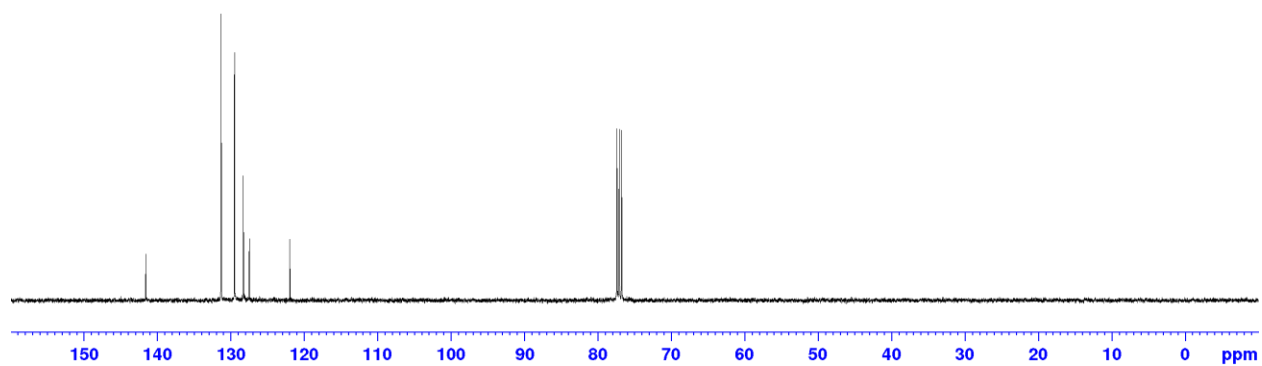
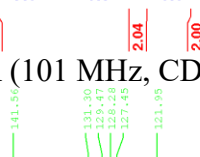
Bis-1-(*p*-bromophenyl)vinyl telluride **3d**:



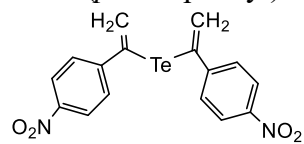
$^1\text{H NMR}$ (400 MHz, CDCl_3)



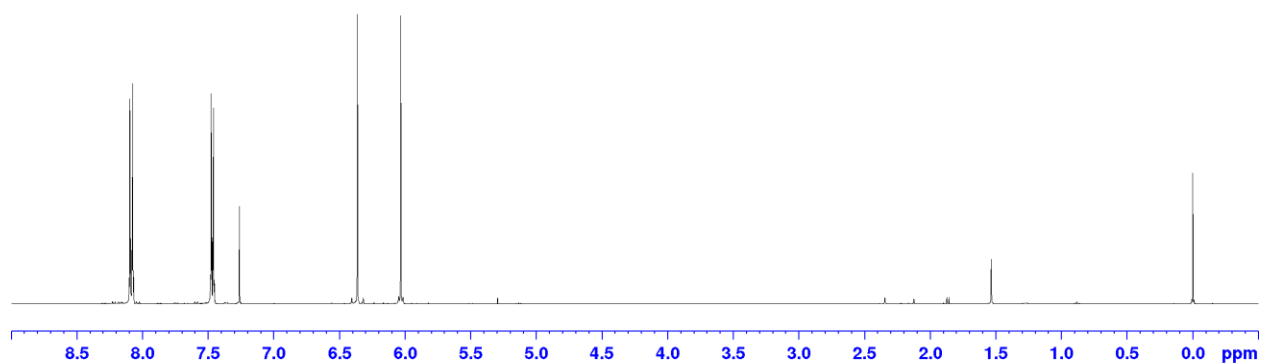
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



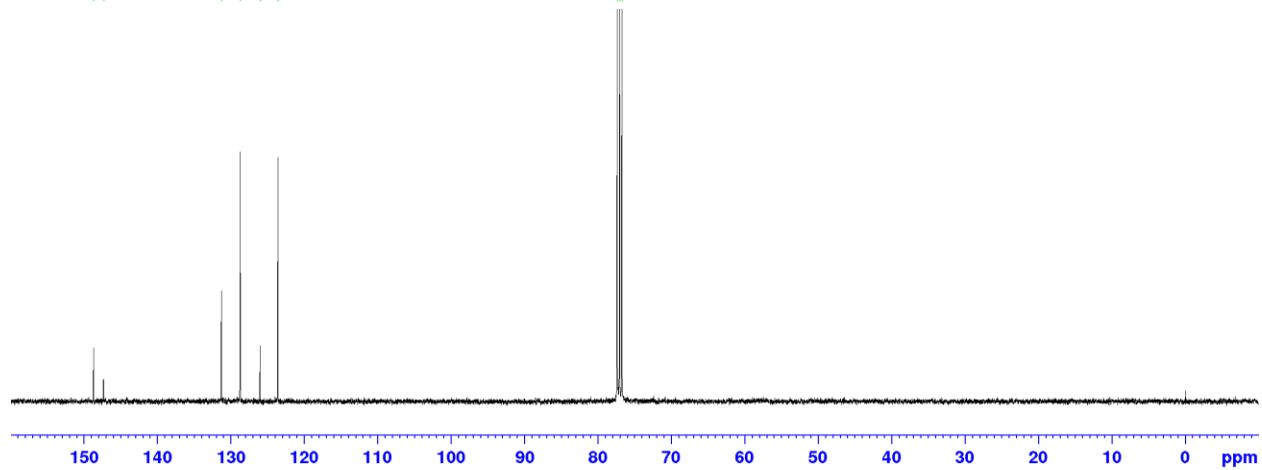
Bis-1-(*p*-nitrophenyl)vinyl telluride **3e**:



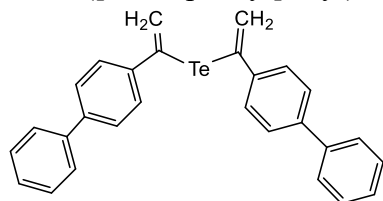
$^1\text{H NMR}$ (400 MHz, CDCl_3)



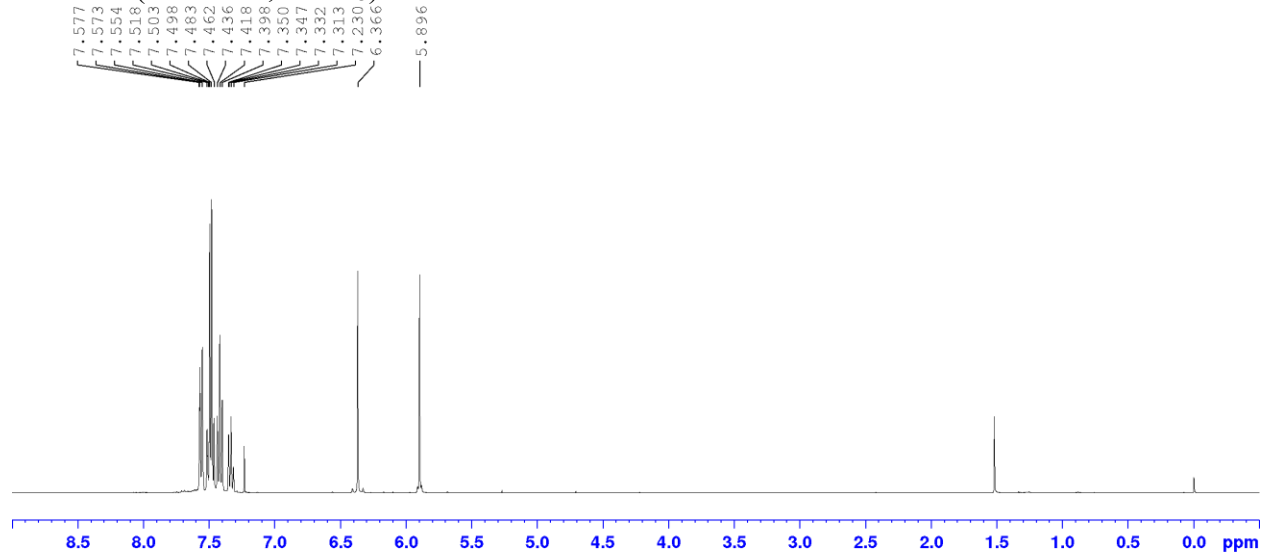
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



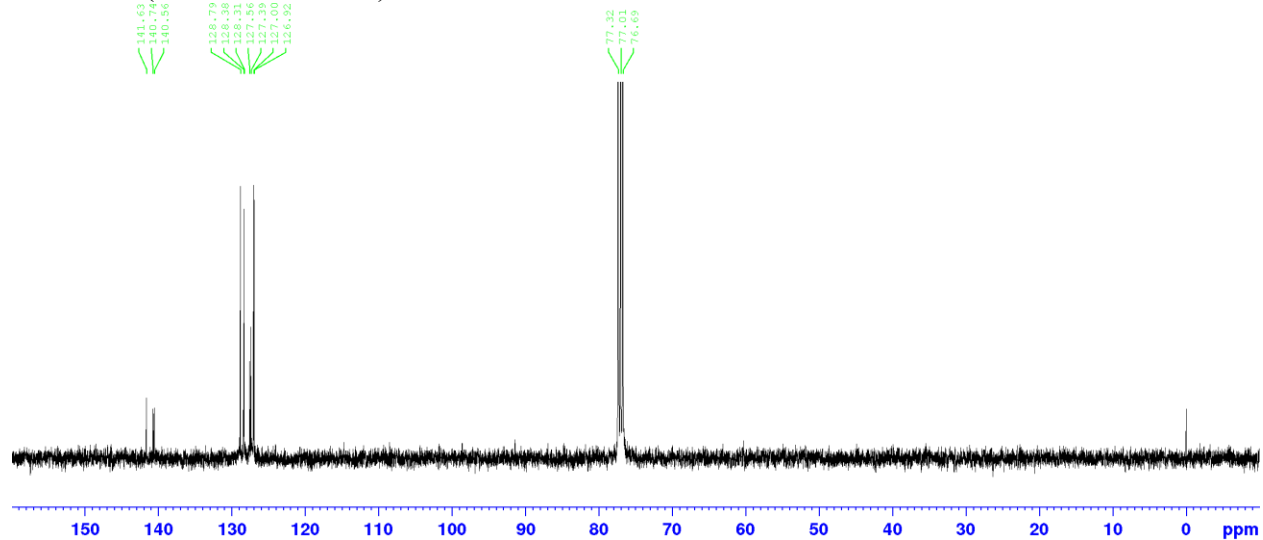
Bis-1-([1,1'-biphenyl]-4-yl)vinyl telluride **3f**:



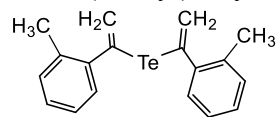
$^1\text{H NMR}$ (400 MHz, CDCl_3)



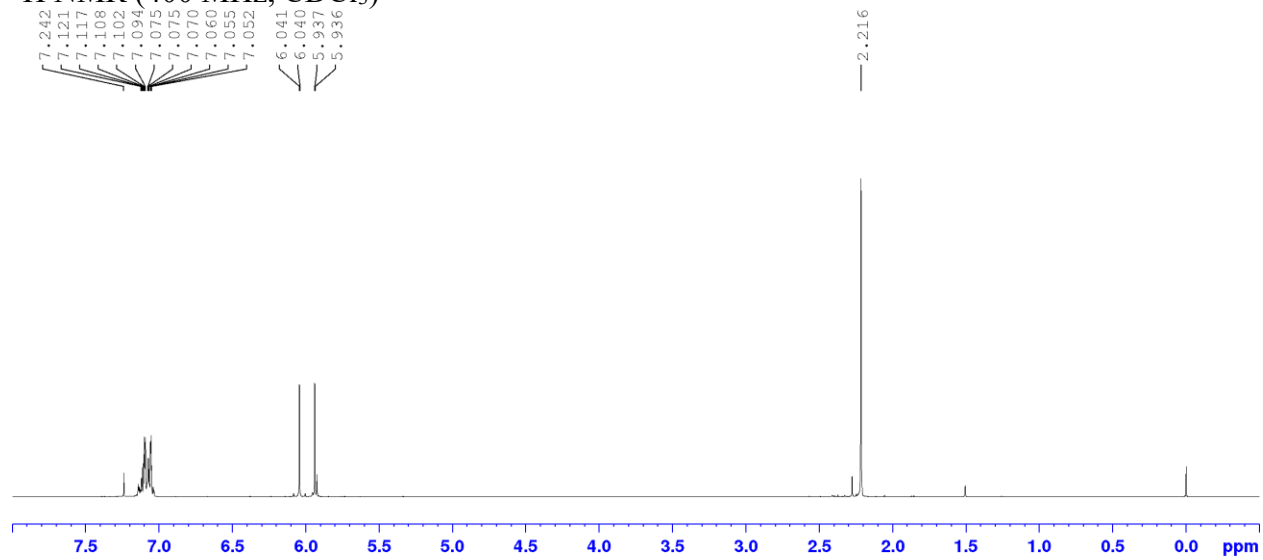
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



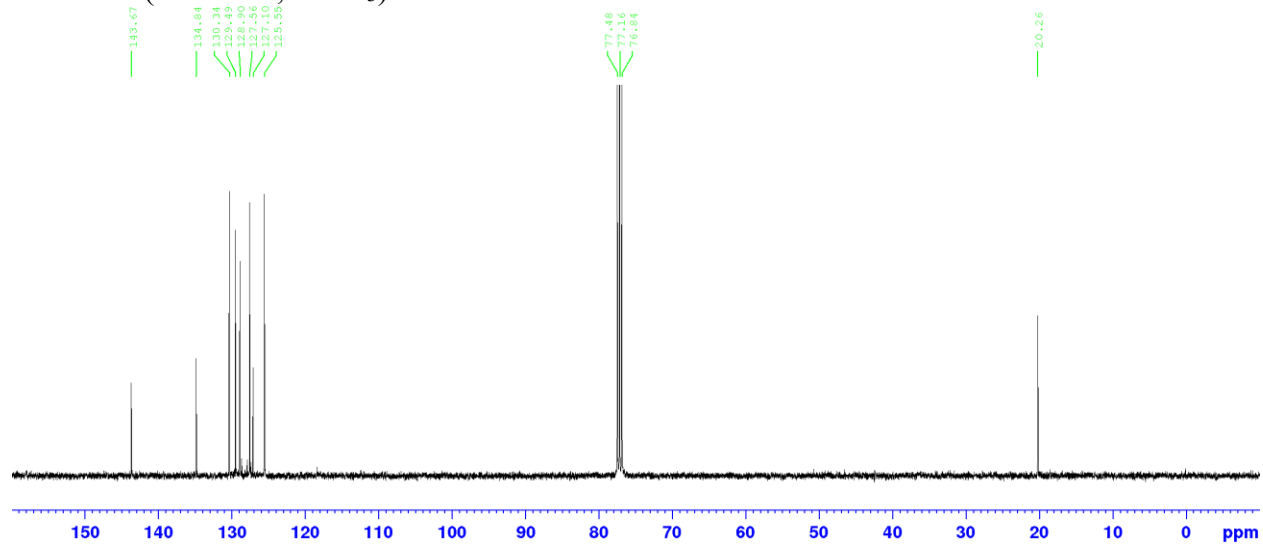
Bis-1-(*o*-tolyl)vinyl telluride **3g**:



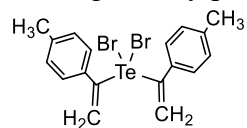
¹H NMR (400 MHz, CDCl₃)



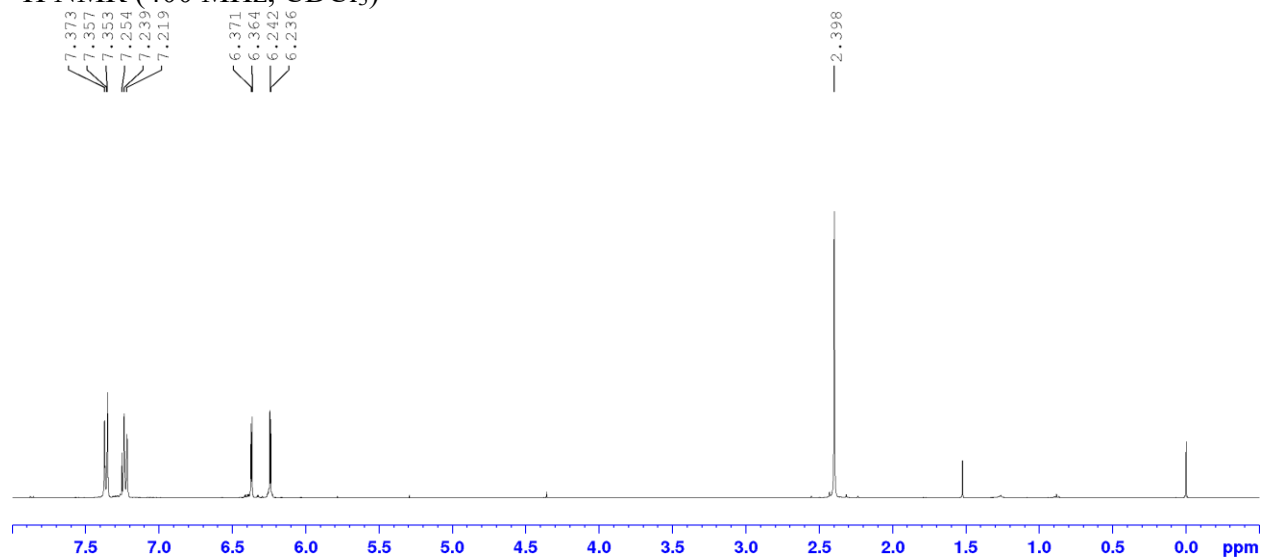
¹³C NMR (101 MHz, CDCl₃)



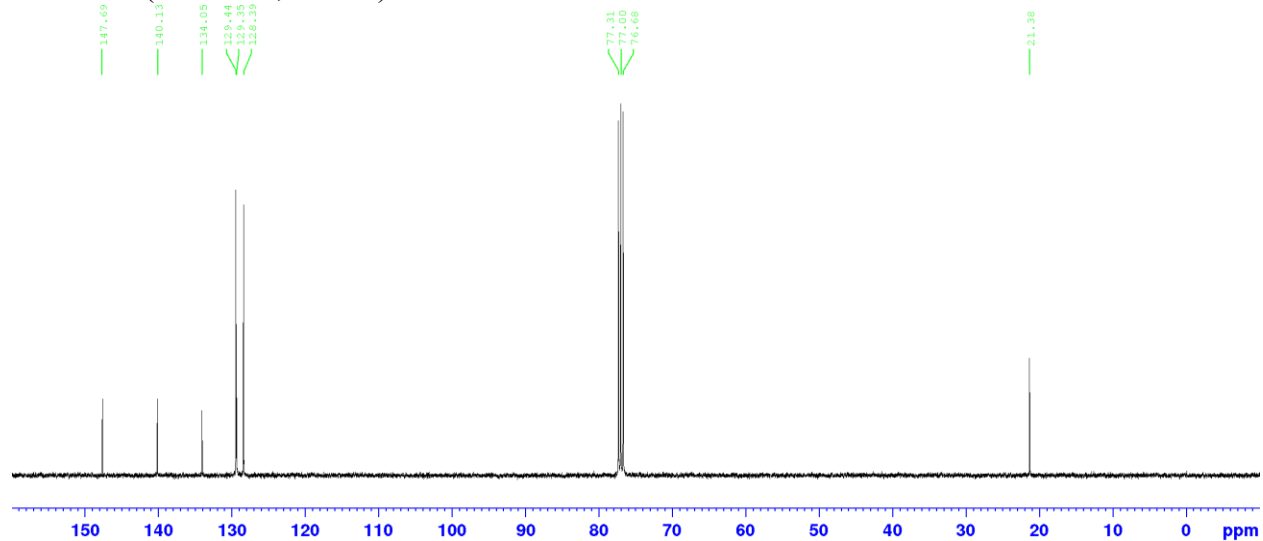
Bis-1-(*p*-methylphenyl)vinyltellurium dibromide **5a**:



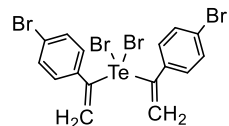
$^1\text{H NMR}$ (400 MHz, CDCl_3)



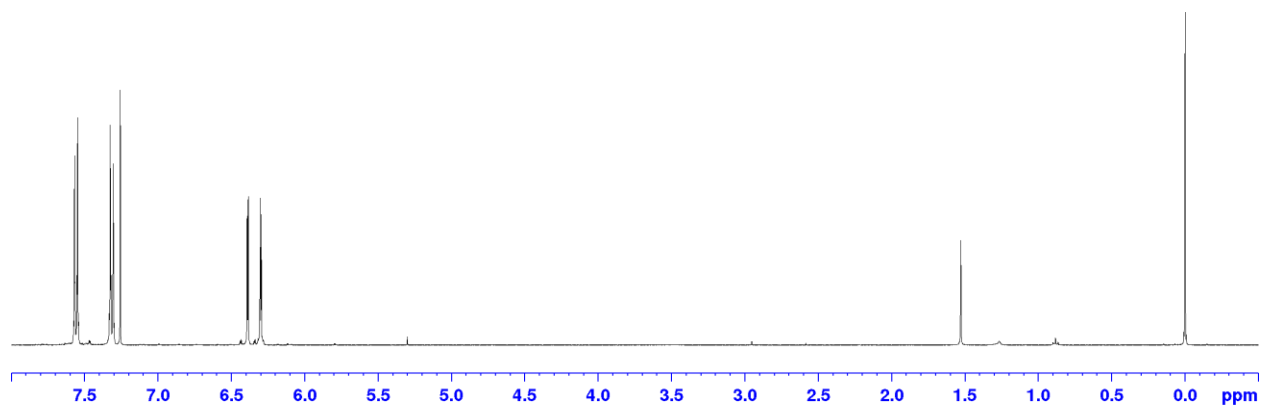
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



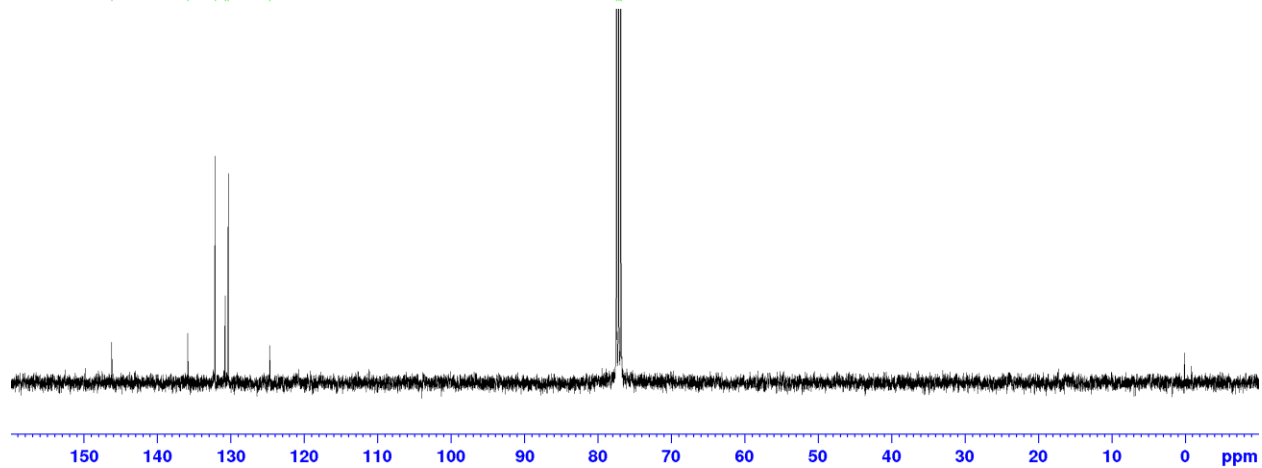
Bis-1-(*p*-bromophenyl)vinyltellurium dibromide **5d**:



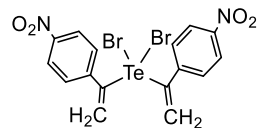
$^1\text{H NMR}$ (400 MHz, CDCl_3)



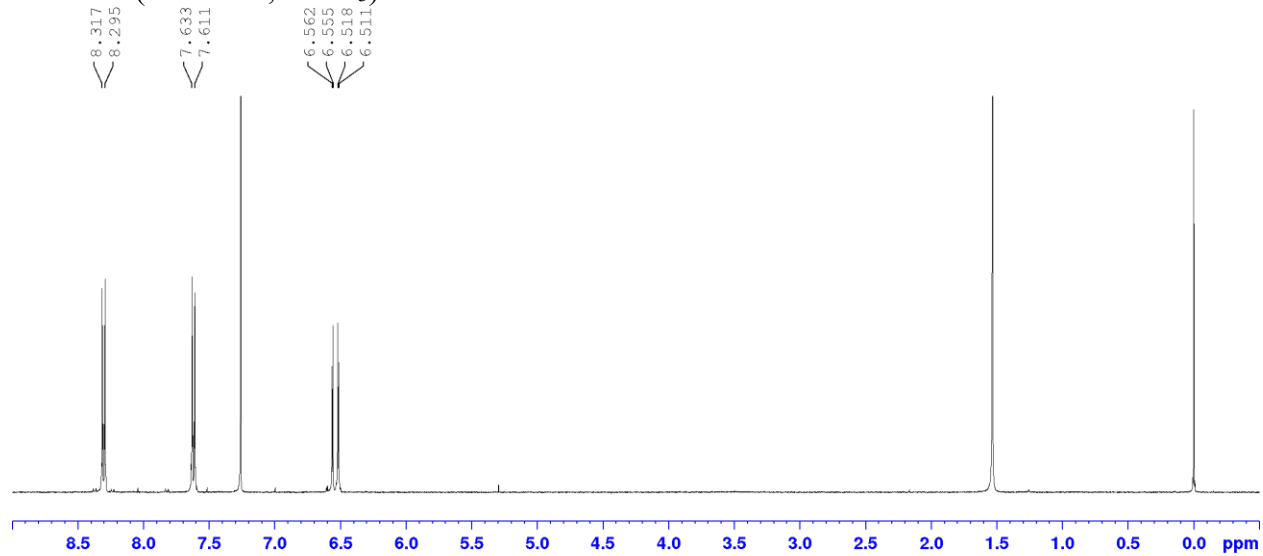
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



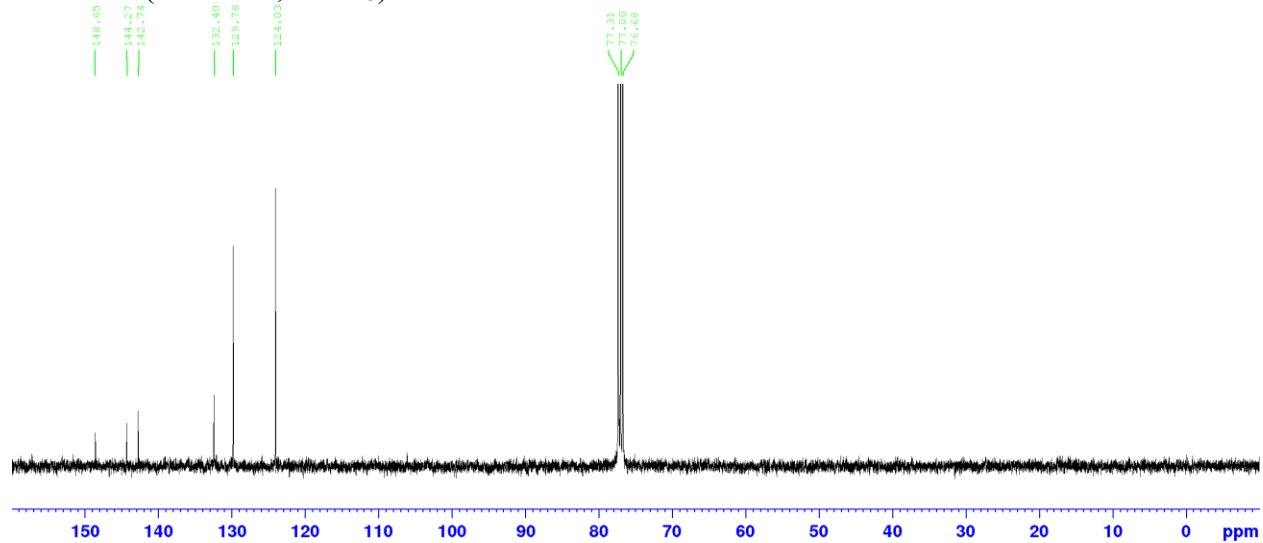
Bis-1-(*p*-nitrophenyl)vinyltellurium dibromide **5e**:



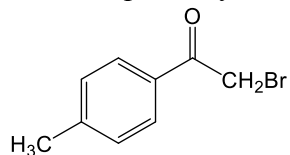
$^1\text{H NMR}$ (400 MHz, CDCl_3)



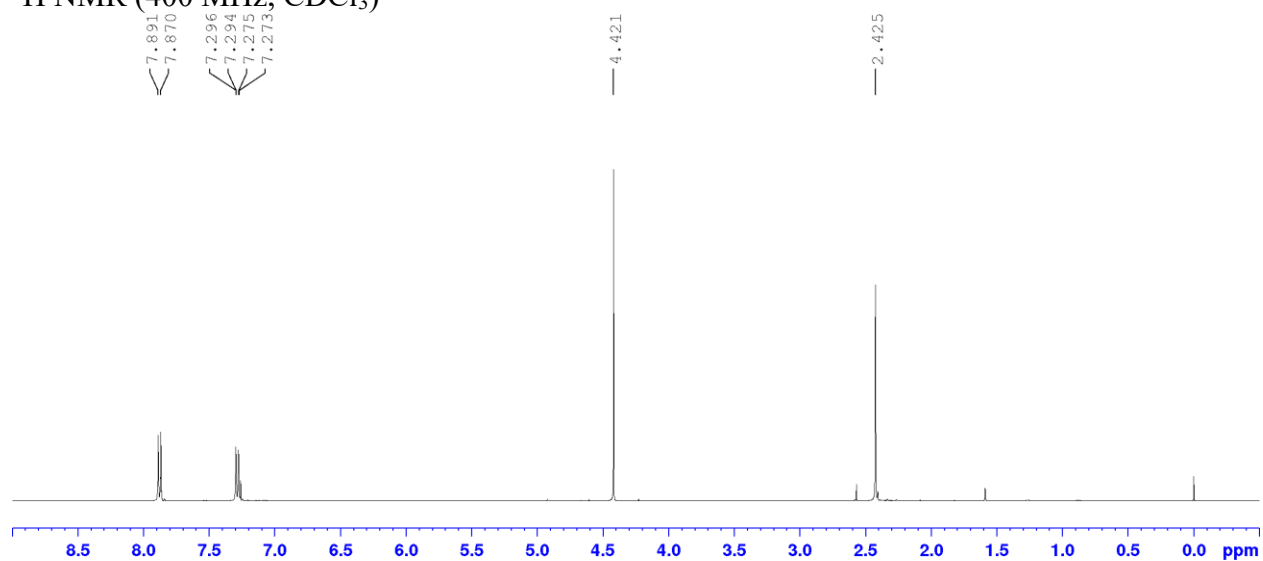
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



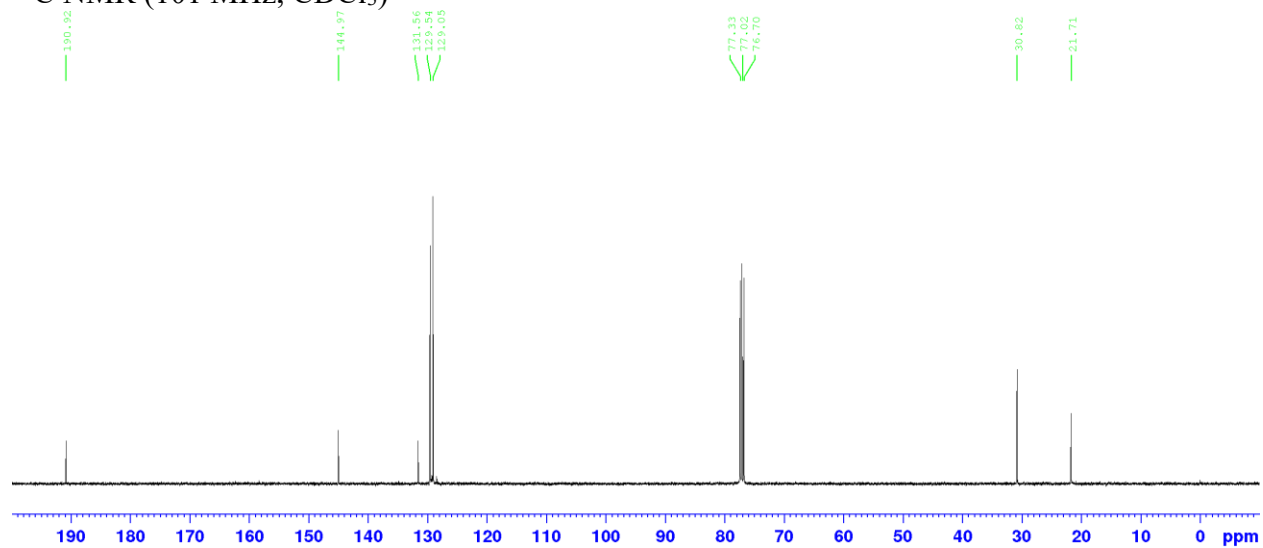
2-bromo-*p*-methylacetophenone **6a**:



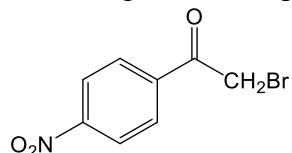
$^1\text{H NMR}$ (400 MHz, CDCl_3)



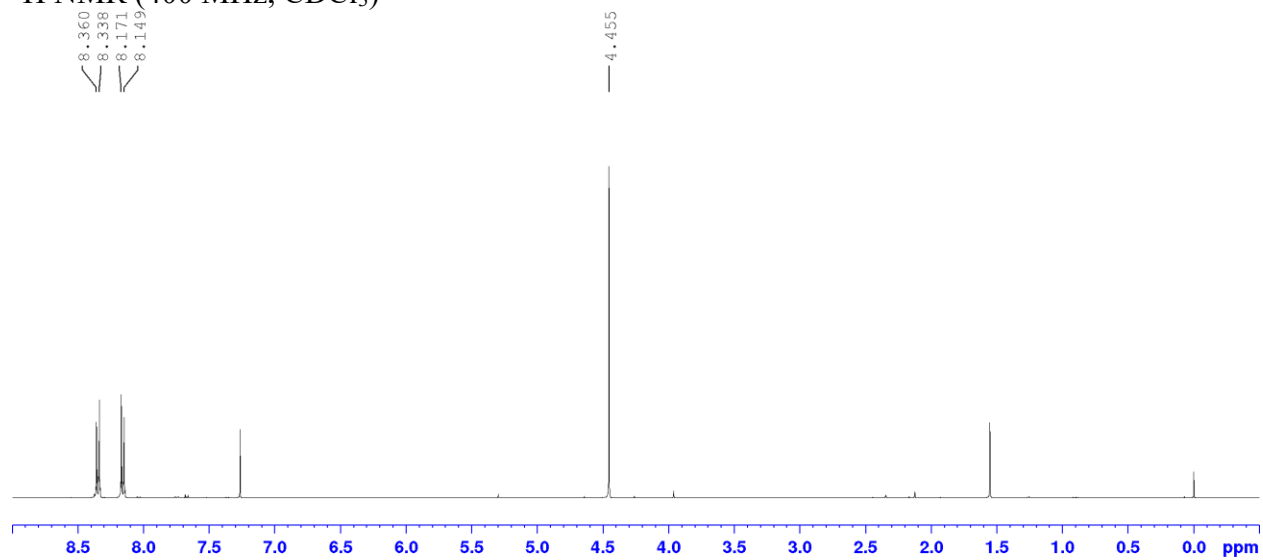
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



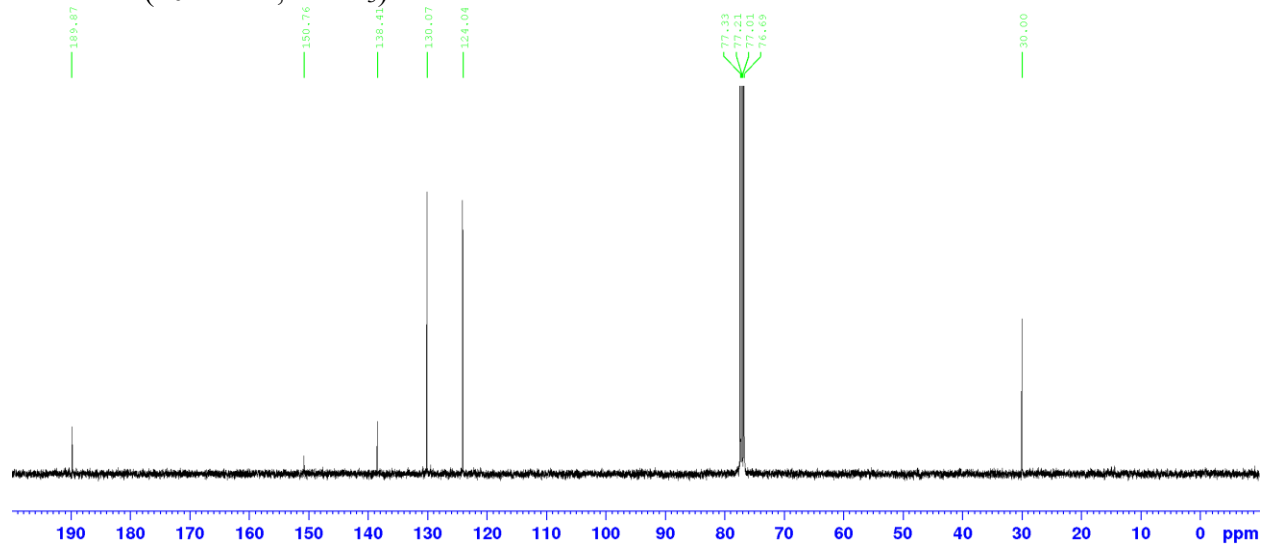
2-bromo-*p*-nitroacetophenone **6b**:



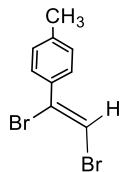
^1H NMR (400 MHz, CDCl_3)



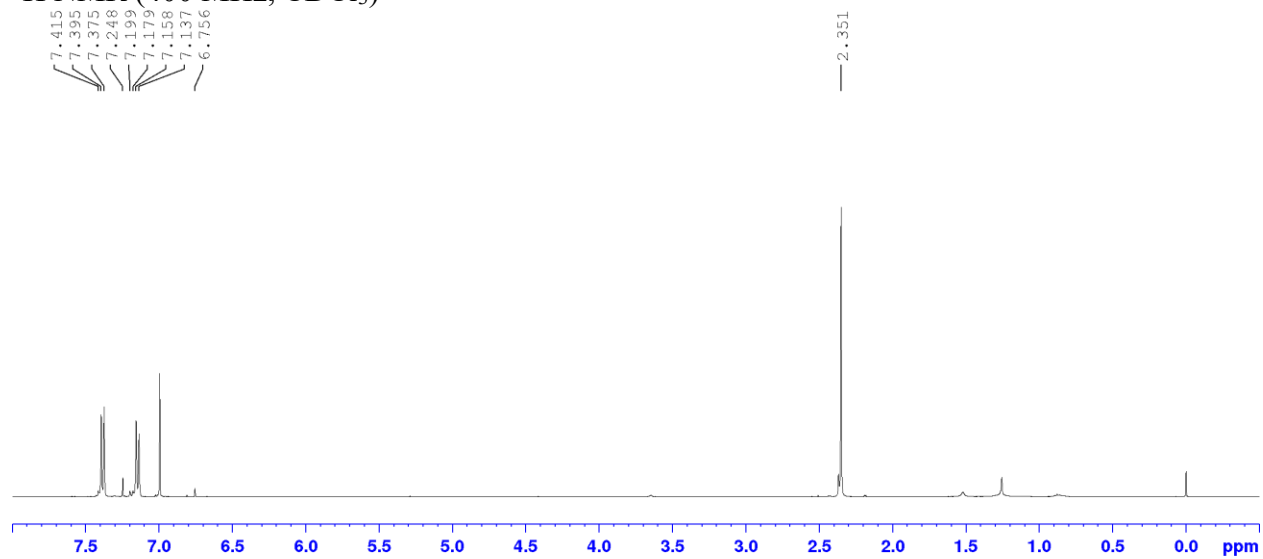
^{13}C NMR (101 MHz, CDCl_3)



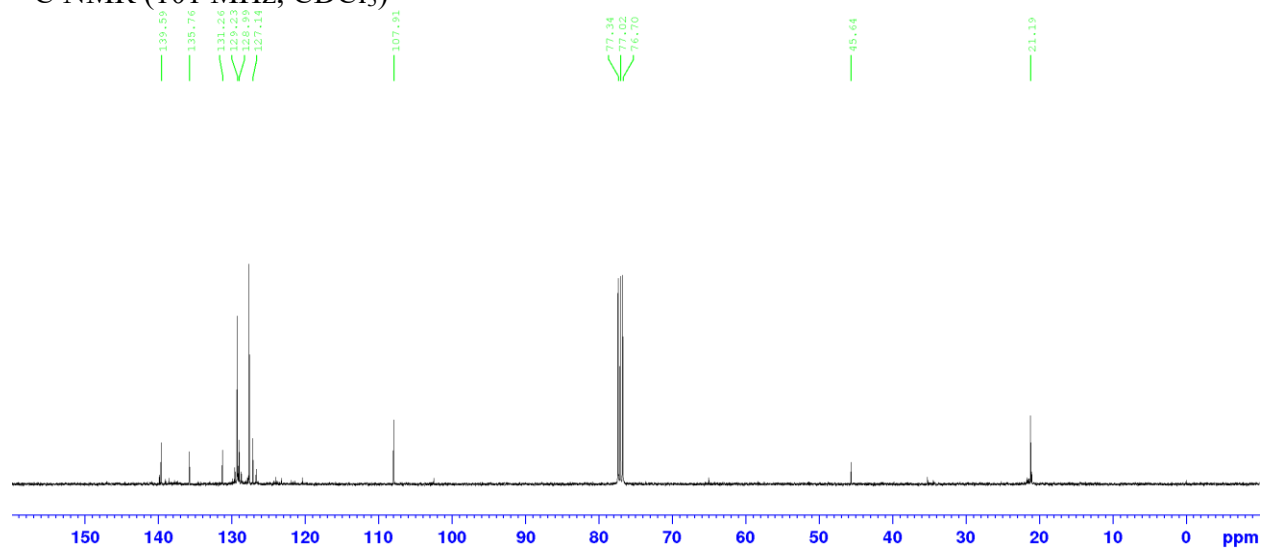
(Z)-1,2-dibromo-*p*-methylstyrene 7:



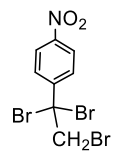
$^1\text{H NMR}$ (400 MHz, CDCl_3)



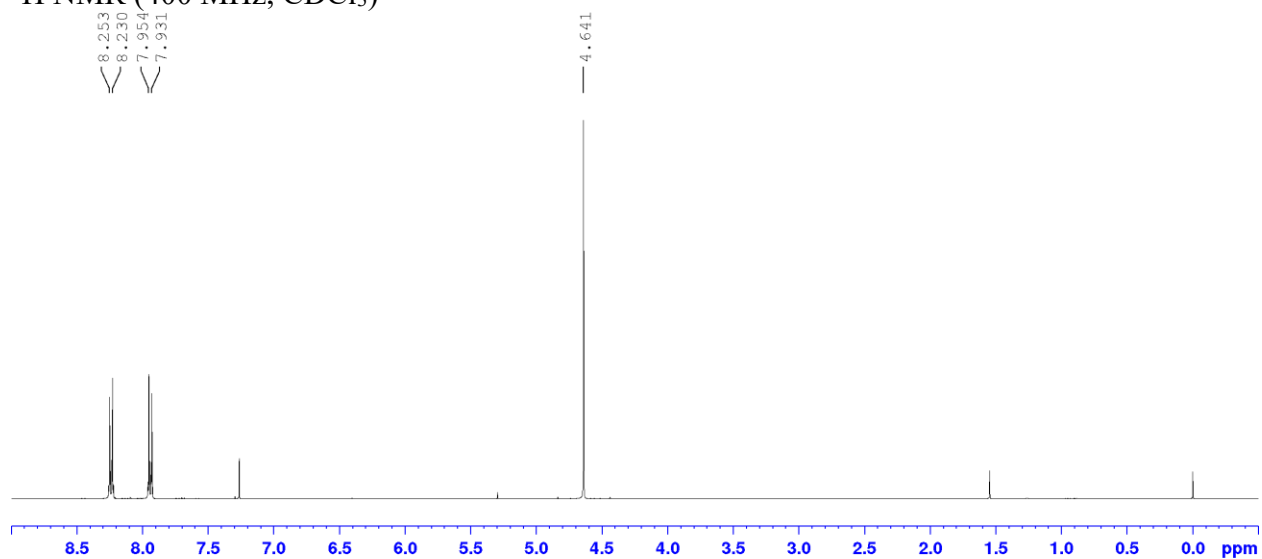
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



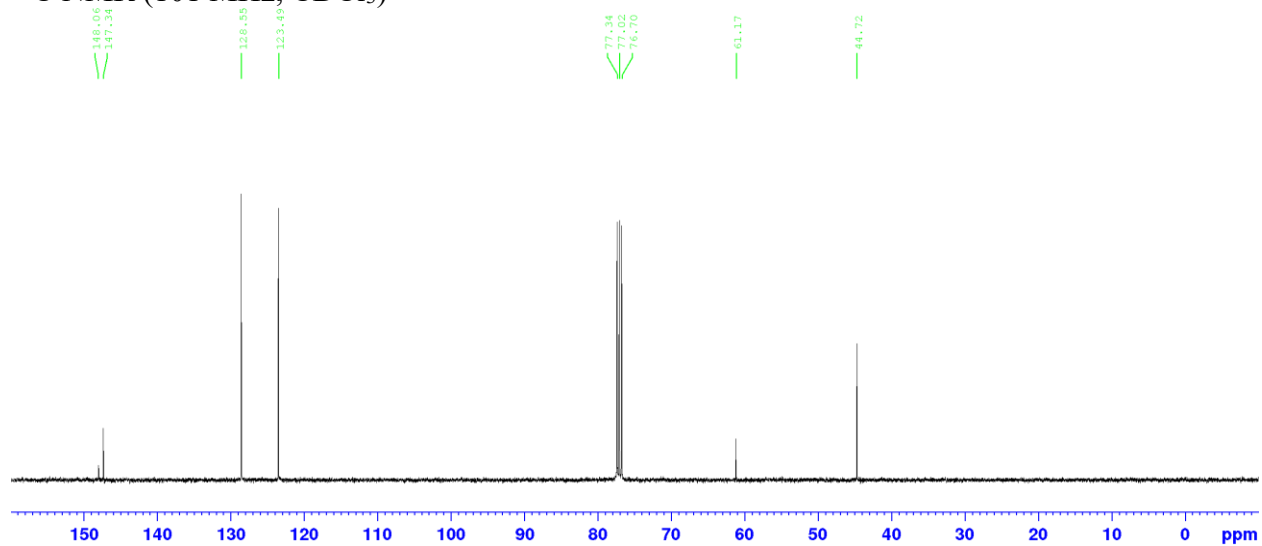
1-nitro-4-(1,1,2-tribromoethyl)benzene **8**:



^1H NMR (400 MHz, CDCl_3)

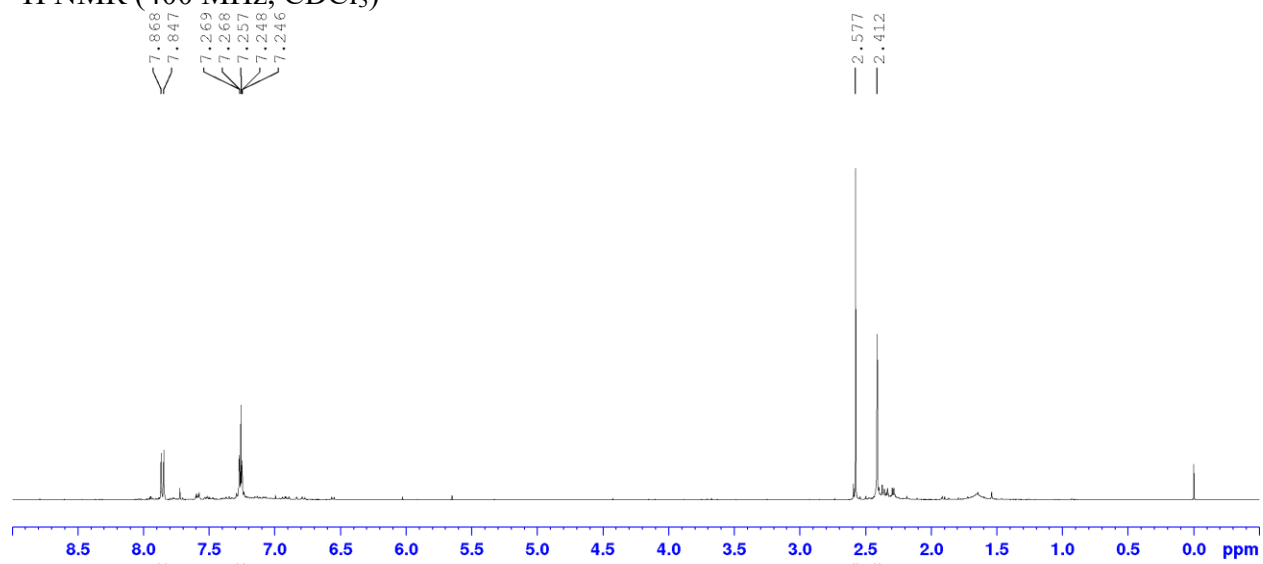


^{13}C NMR (101 MHz, CDCl_3)

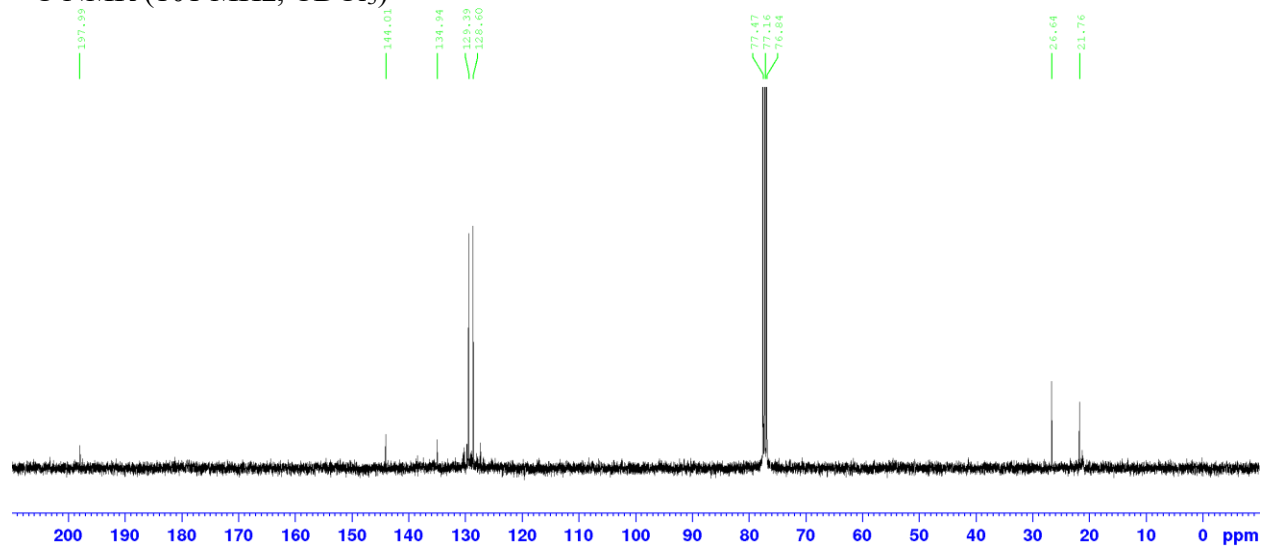


p-methylacetophenone (Oxidation of Dibromide)

^1H NMR (400 MHz, CDCl_3)

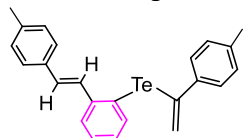


^{13}C NMR (101 MHz, CDCl_3)

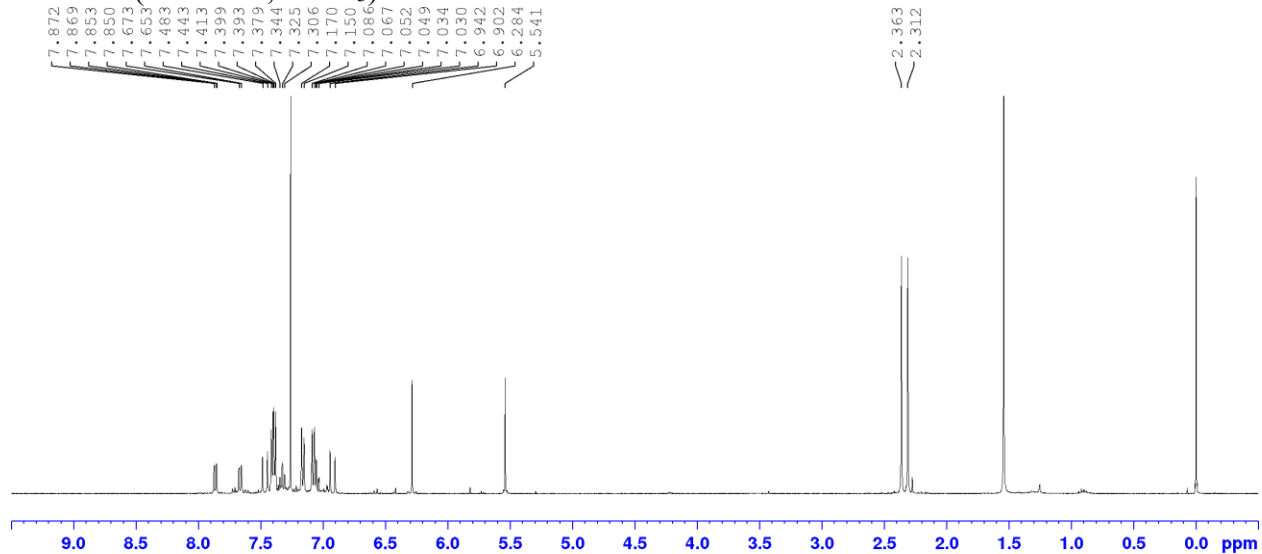


(*E*)-(2-(4-methylstyryl)phenyl)(1-(*p*-tolyl)vinyl)telluride **10a**:

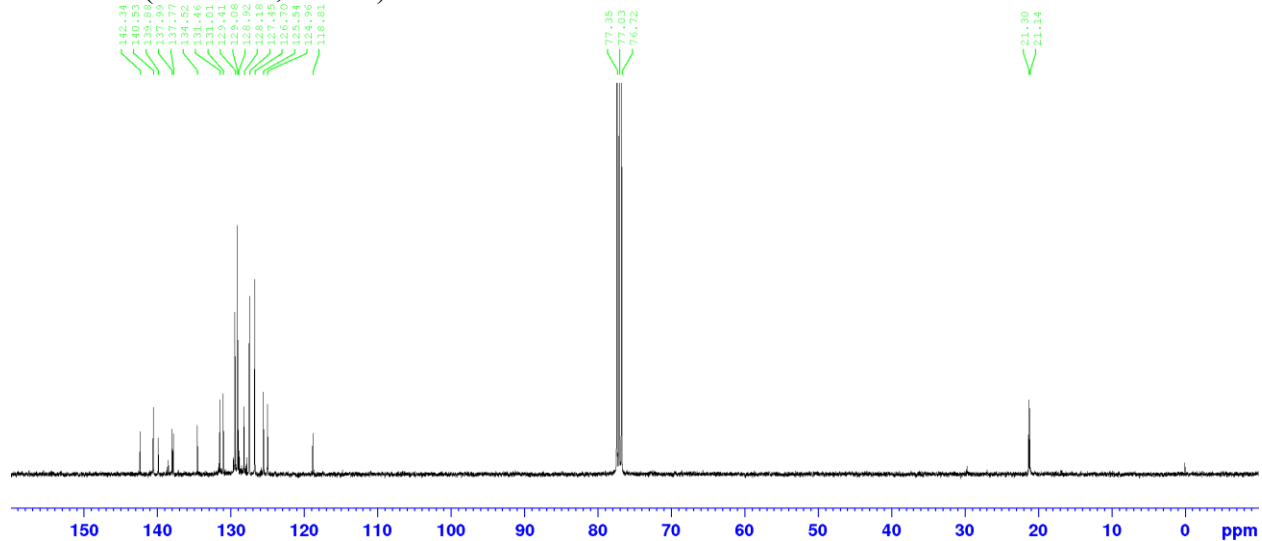
Compound **10** is unstable. Upon standing at rt for 6 h, compound **10a** decomposed to give undefined species.



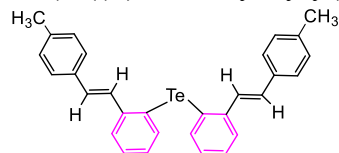
$^1\text{H NMR}$ (400 MHz, CDCl_3)



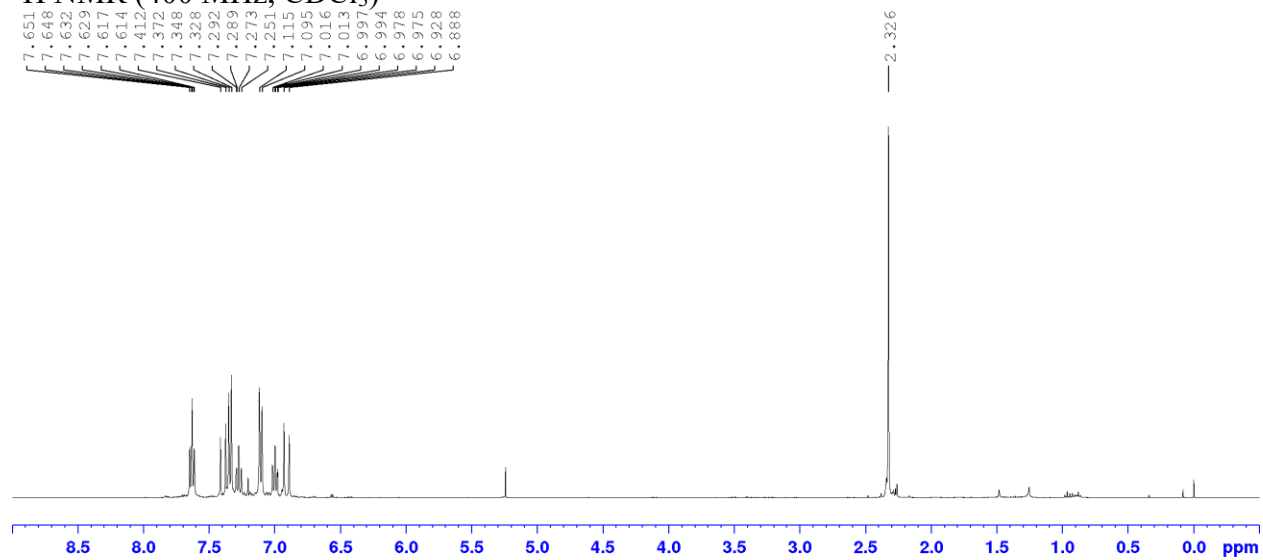
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



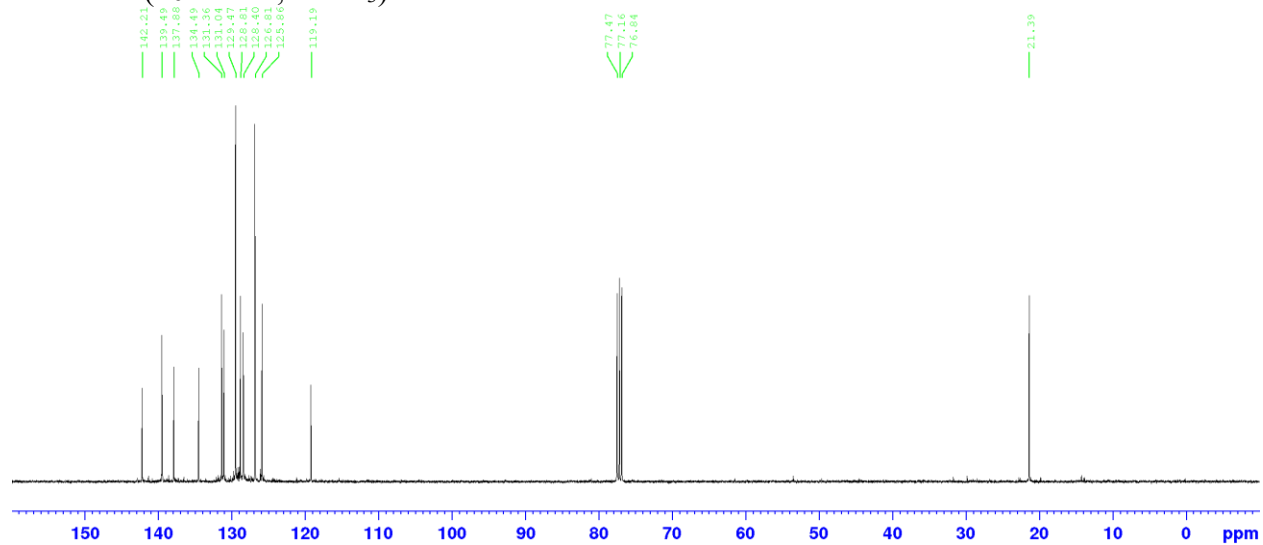
Bis(2-((*E*)-4-methylstyryl)phenyl) telluride **11a**:



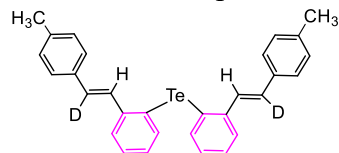
$^1\text{H NMR}$ (400 MHz, CDCl_3)



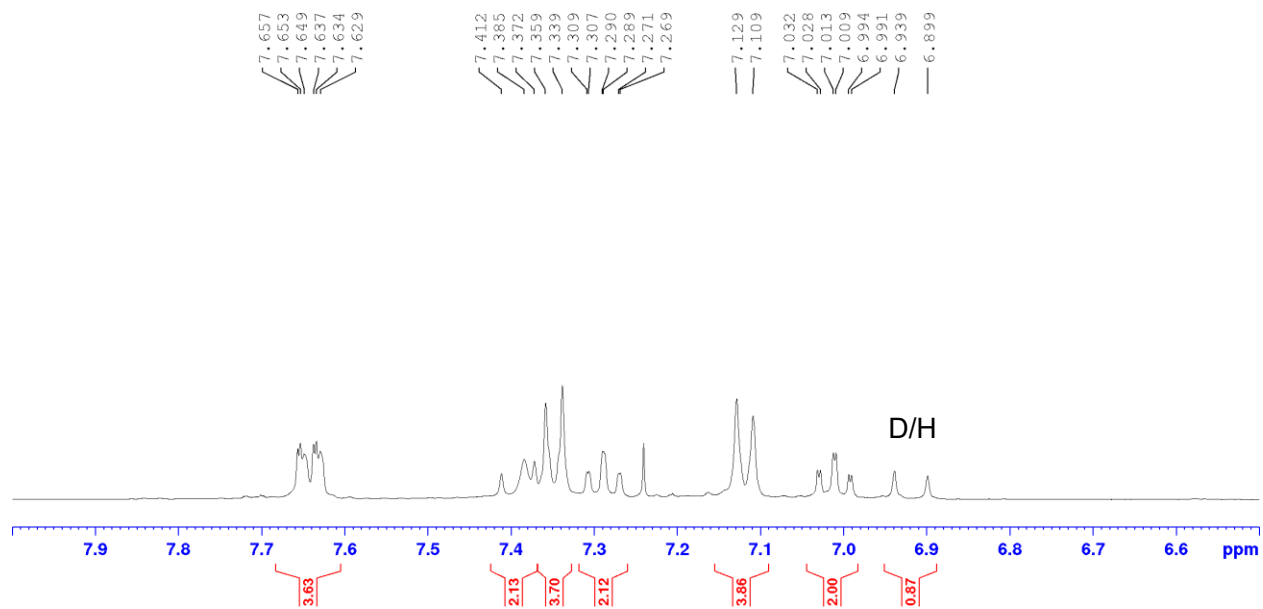
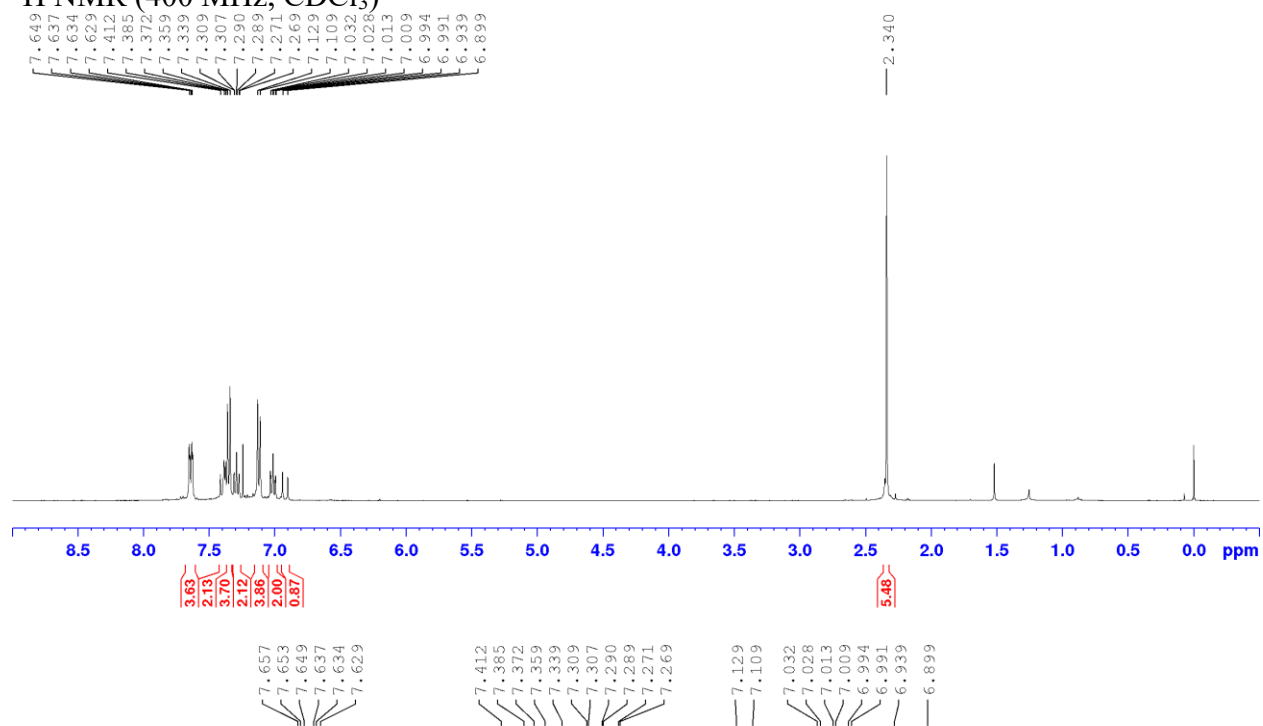
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



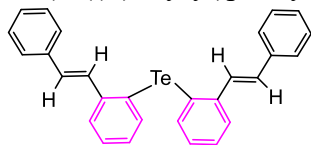
Deuterated Compound **11a-D** (60%D):



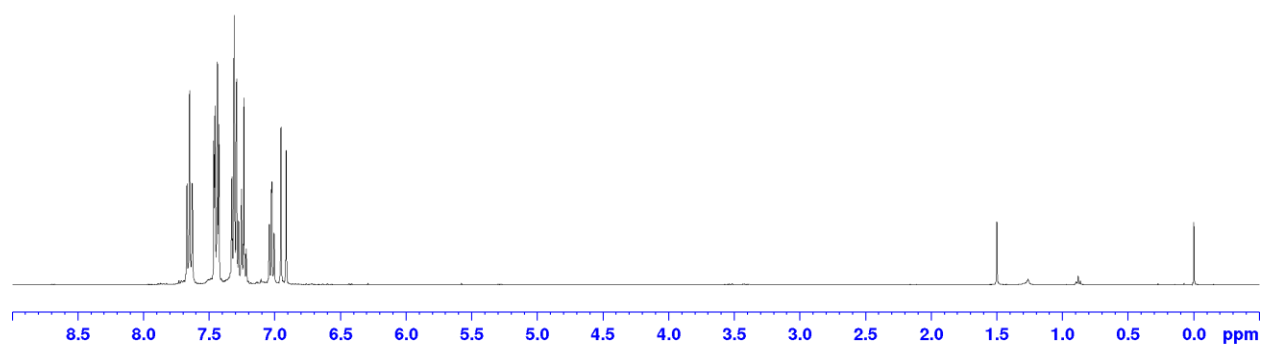
^1H NMR (400 MHz, CDCl_3)



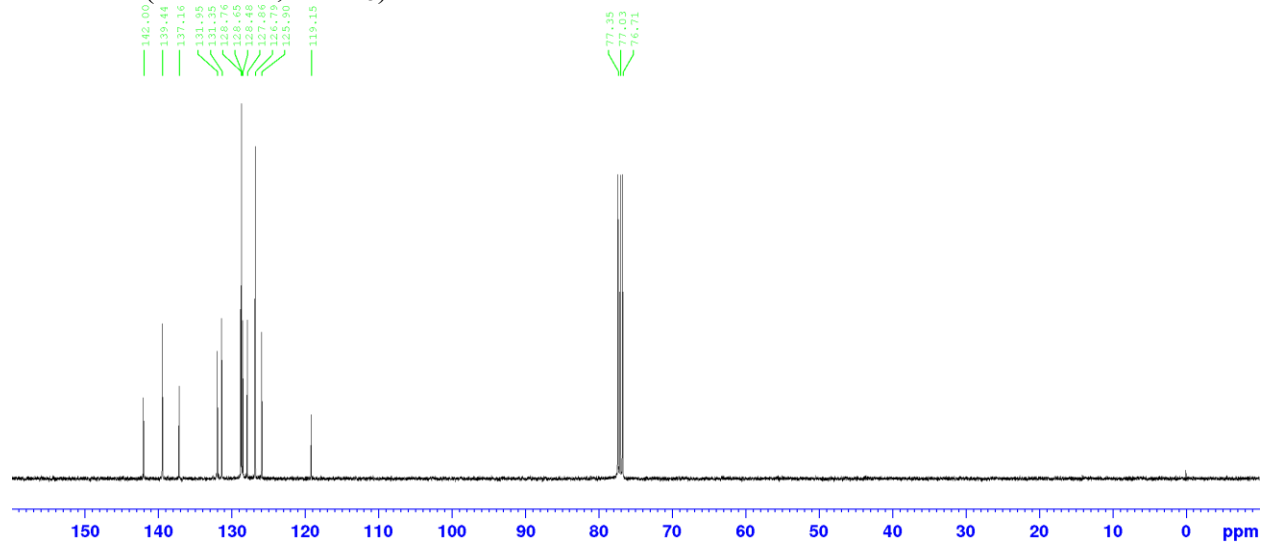
Bis(2-((*E*)-styryl)phenyl) telluride **11b**:



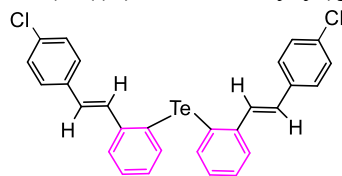
^1H NMR (400 MHz, CDCl_3)



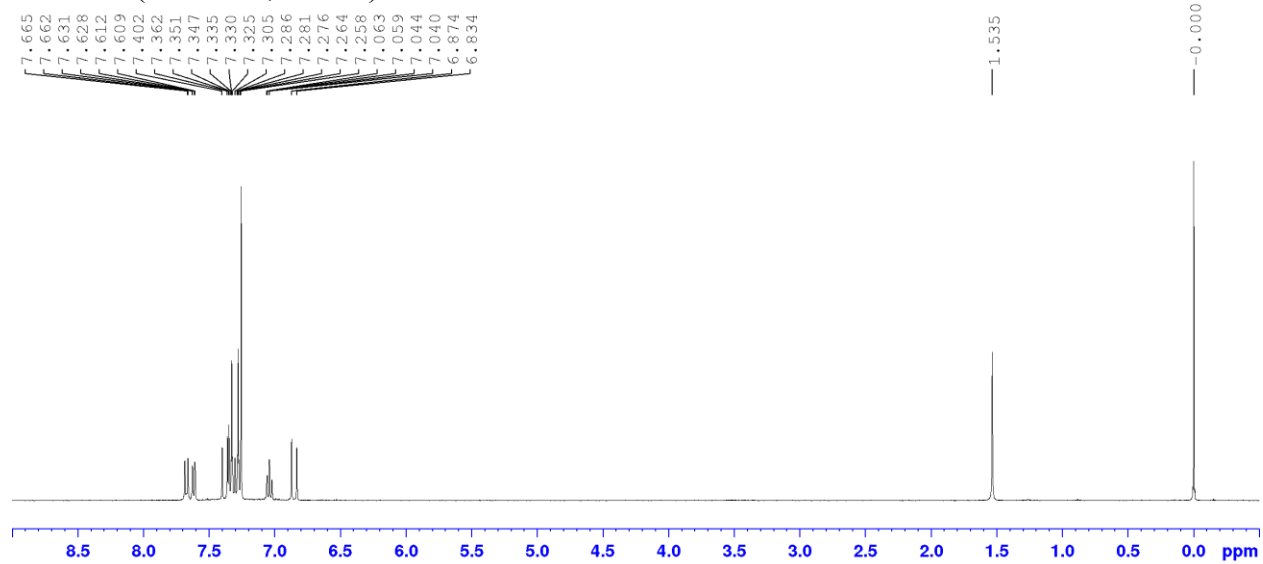
^{13}C NMR (101 MHz, CDCl_3)



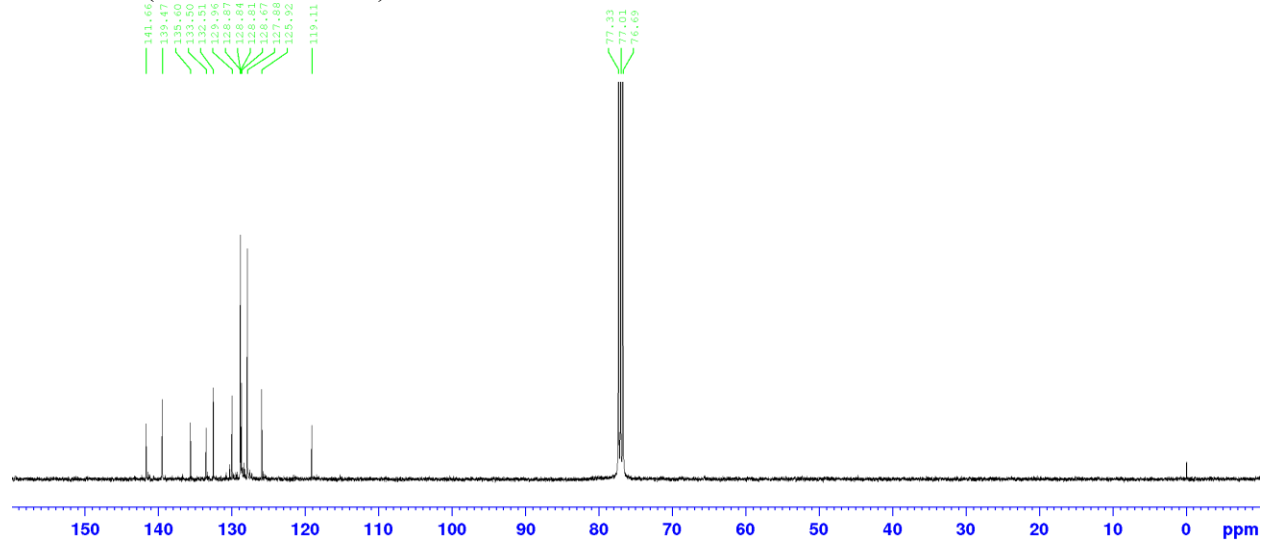
Bis(2-((E)-4-chlorostyryl)phenyl) telluride **11c**:



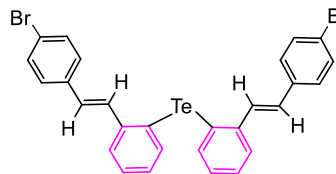
^1H NMR (400 MHz, CDCl_3)



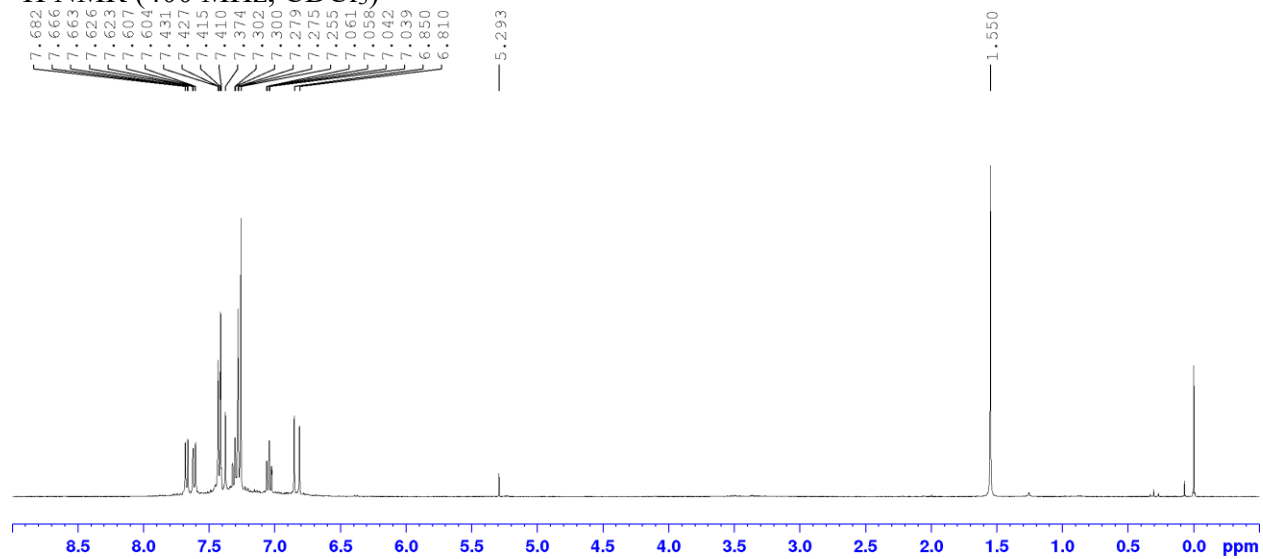
^{13}C NMR (101 MHz, CDCl_3)



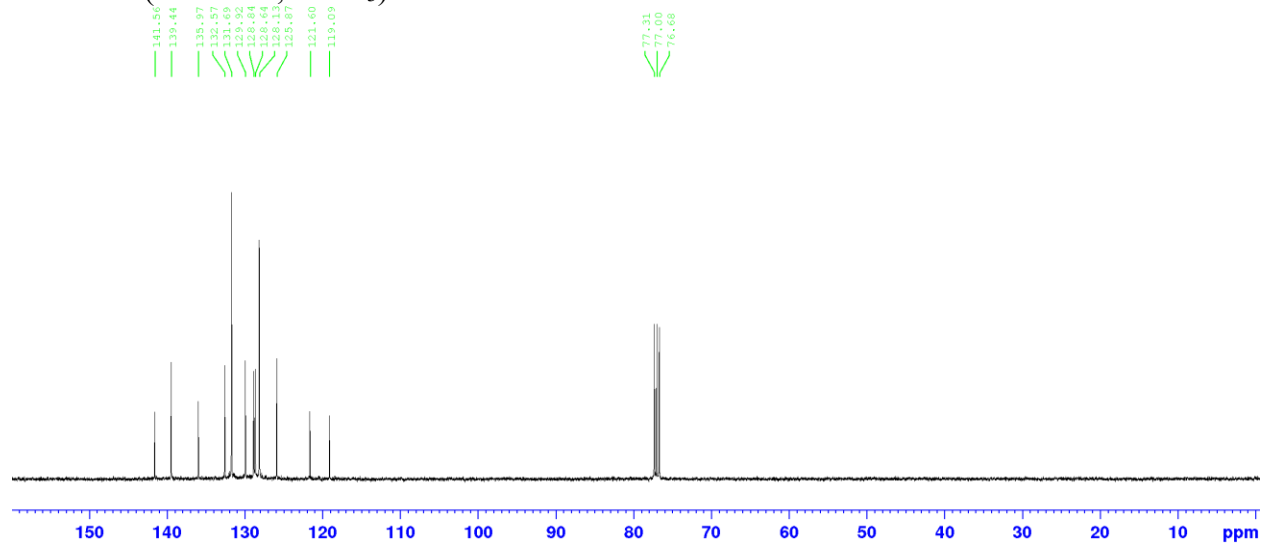
Bis(2-((*E*)-4-bromostyryl)phenyl) telluride **11d**:



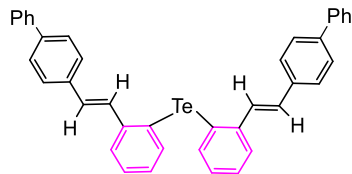
$^1\text{H NMR}$ (400 MHz, CDCl_3)



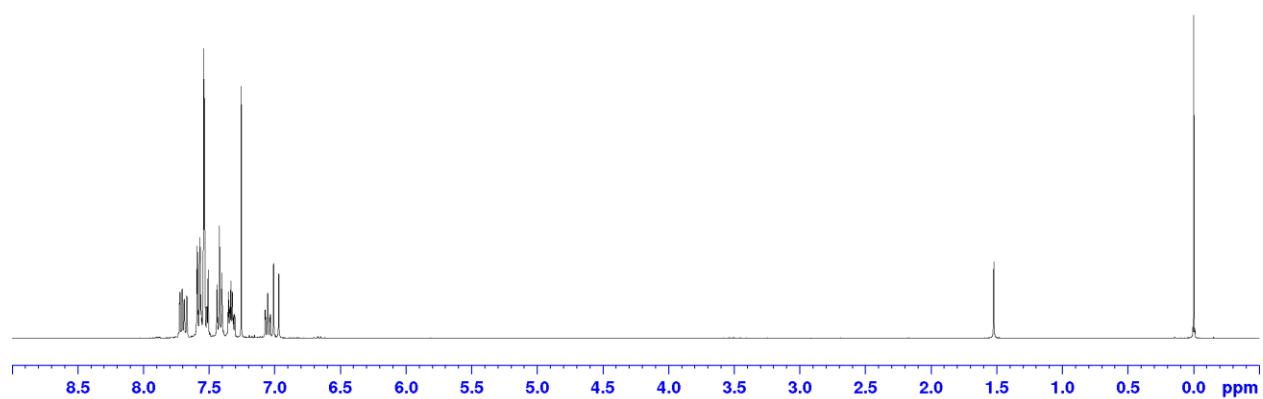
$^{13}\text{C NMR}$ (101 MHz, CDCl_3)



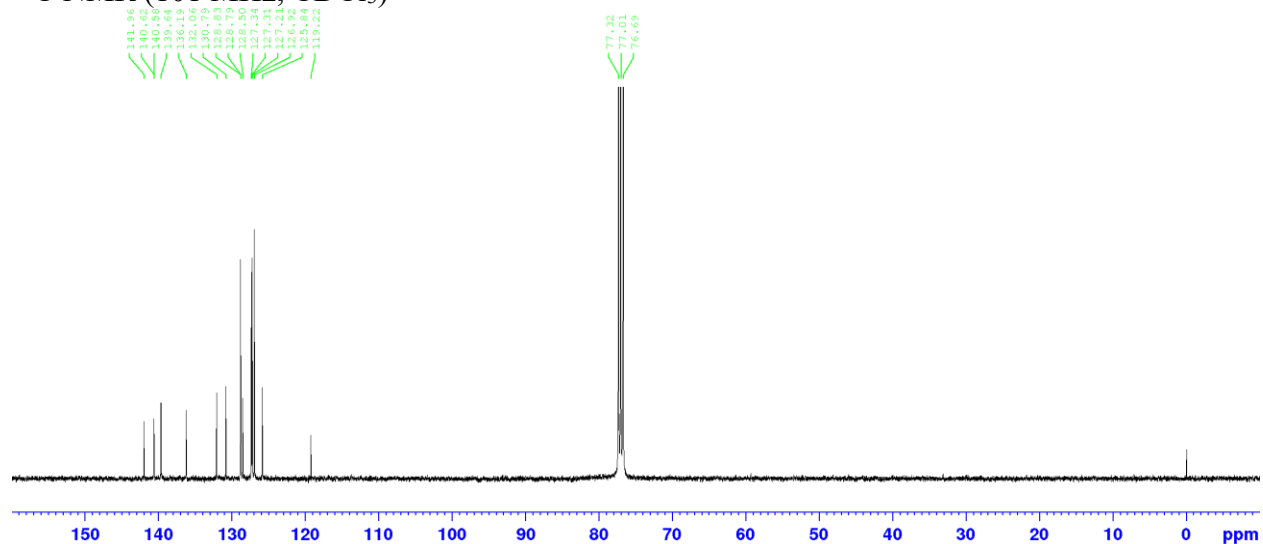
Bis(2-((*E*)-4-phenylstyryl)phenyl) telluride **11f**:



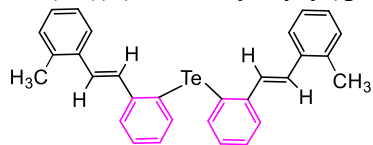
^1H NMR (400 MHz, CDCl_3)



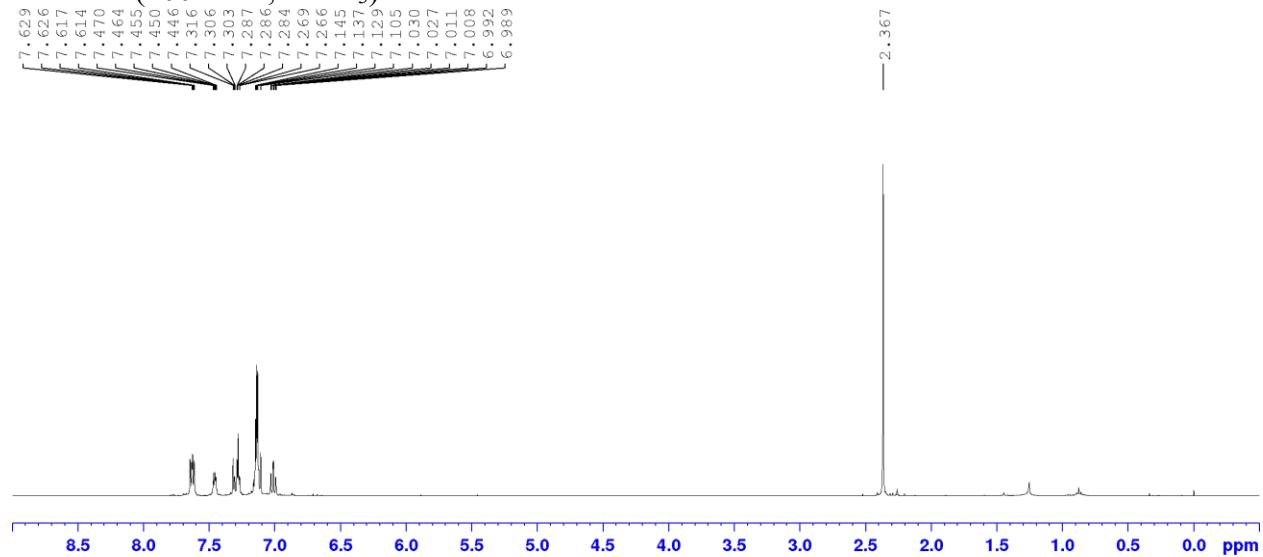
^{13}C NMR (101 MHz, CDCl_3)



Bis(2-((*E*)-2-methylstyryl)phenyl) telluride **11g**:



^1H NMR (400 MHz, CDCl_3)



^{13}C NMR (101 MHz, CDCl_3)

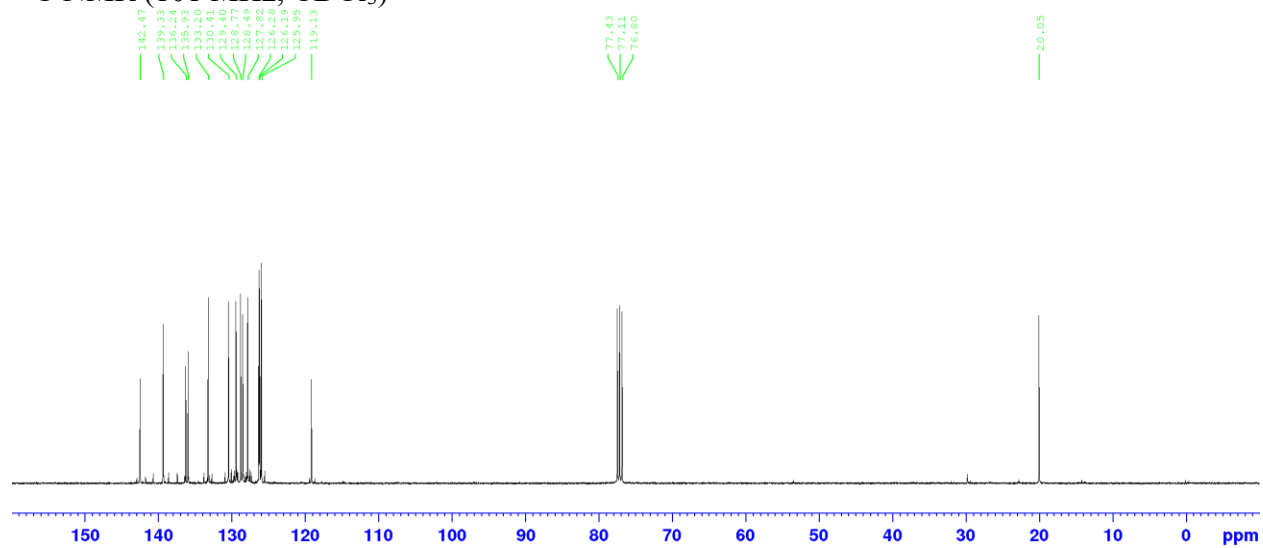


Figure 1. ORTEP Drawing for 1-nitro-4-(1,1,2-tribromoethyl)benzene **8**.

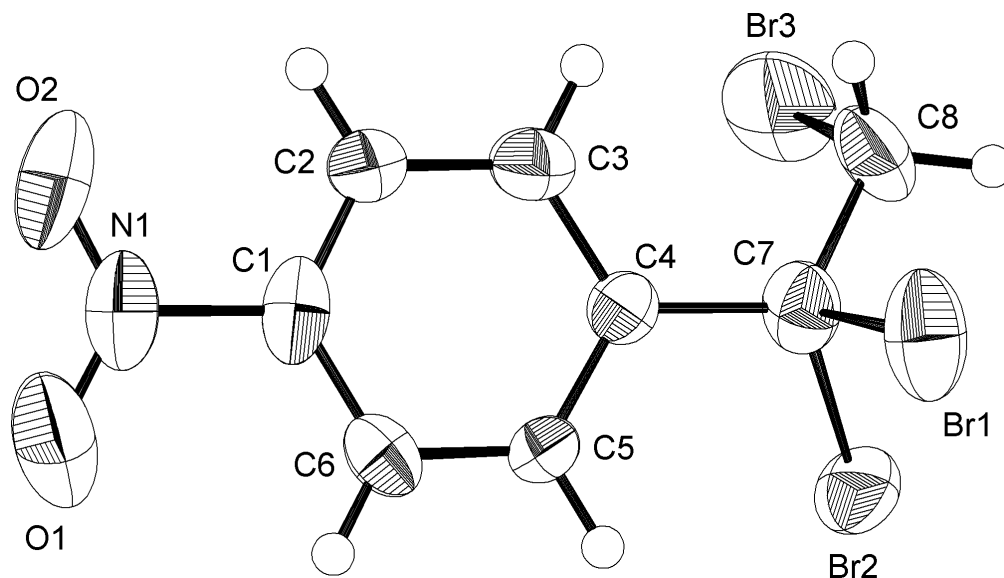


Table 1. Crystal data and structure refinement for 1-nitro-4-(1,1,2-tribromoethyl)benzene **8**.

Identification code	20200111	
Empirical formula	C ₁₆ H ₁₂ Br ₆ N ₂ O ₄	
Formula weight	775.74	
Temperature	293(2) K	
Wavelength	0.71075 Å	
Crystal system	monoclinic	
Space group	<i>P</i> ₂ ₁ / <i>a</i>	
Unit cell dimensions	<i>a</i> = 7.012(2) Å	$\alpha = 90^\circ$.
	<i>b</i> = 19.312(7) Å	$\beta = 90.125(7)^\circ$.
	<i>c</i> = 16.460(6) Å	$\gamma = 90^\circ$.
Volume	2228.9(14) Å ³	
<i>Z</i>	4	
Density (calculated)	2.312 Mg/m ³	
Absorption coefficient	10.832 mm ⁻¹	
<i>F</i> (000)	1456	
Crystal size	0.35 x 0.20 x 0.10 mm ³	
Theta range for data collection	3.09 to 26.00°.	
Index ranges	-8 ≤ <i>h</i> ≤ 8, -23 ≤ <i>k</i> ≤ 23, -20 ≤ <i>l</i> ≤ 20	

Reflections collected	23139
Independent reflections	4389 [R(int) = 0.1277]
Completeness to theta = 26.00°	99.9 %
Max. and min. transmission	0.4105 and 0.1158
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	4389 / 0 / 253
Goodness-of-fit on F ²	1.010
Final R indices [I > 2sigma(I)]	R1 = 0.0581, wR2 = 0.0881
R indices (all data)	R1 = 0.0951, wR2 = 0.0939
Largest diff. peak and hole	0.992 and -1.285 e.Å ⁻³

Table 2. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 20200111. $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U^{ij} tensor.

	x	y	z	$U(\text{eq})$
C(1)	7468(10)	2601(5)	7285(5)	49(2)
C(2)	7537(9)	1921(5)	7078(5)	47(2)
C(3)	7345(9)	1422(4)	7685(4)	51(2)
C(4)	7098(9)	1615(4)	8489(4)	39(2)
C(5)	7028(9)	2306(4)	8657(4)	41(2)
C(6)	7211(9)	2807(4)	8079(5)	45(2)
N(1)	7644(10)	3118(5)	6640(5)	64(2)
O(1)	7386(10)	3715(4)	6807(5)	99(3)
O(2)	8053(9)	2920(4)	5967(4)	99(3)
C(7)	6955(9)	1087(5)	9151(4)	50(2)
C(8)	6723(10)	339(4)	8915(5)	63(2)
Br(1)	9428(1)	1081(1)	9745(1)	77(1)
Br(2)	4988(1)	1328(1)	9927(1)	57(1)
Br(3)	4268(1)	199(1)	8367(1)	90(1)
C(9)	12469(9)	-2594(5)	7708(5)	45(2)
C(10)	12540(10)	-1922(5)	7923(4)	50(2)
C(11)	12344(9)	-1416(4)	7325(5)	50(2)
C(12)	12096(9)	-1616(4)	6516(4)	36(2)
C(13)	12051(9)	-2302(4)	6332(4)	40(2)
C(14)	12225(9)	-2797(4)	6917(5)	41(2)
N(2)	12651(10)	-3113(5)	8356(5)	63(2)
O(3)	12414(10)	-3715(4)	8190(4)	95(3)
O(4)	13055(8)	-2929(4)	9031(4)	94(3)
C(15)	11971(9)	-1078(4)	5855(4)	47(2)
C(16)	11720(10)	-337(4)	6100(5)	65(3)
Br(4)	14425(1)	-1081(1)	5255(1)	75(1)
Br(5)	9987(1)	-1328(1)	5074(1)	58(1)
Br(6)	9265(1)	-200(1)	6633(1)	89(1)

Table 3. Bond lengths [Å] and angles [°] for 20200111.

C(1)-C(2)	1.357(10)	C(9)-C(10)	1.347(10)
C(1)-C(6)	1.378(10)	C(9)-C(14)	1.368(9)
C(1)-N(1)	1.463(10)	C(9)-N(2)	1.469(10)
C(2)-C(3)	1.395(9)	C(10)-C(11)	1.394(9)
C(2)-H(1)	0.9300	C(10)-H(7)	0.9300
C(3)-C(4)	1.387(9)	C(11)-C(12)	1.396(9)
C(3)-H(2)	0.9300	C(11)-H(8)	0.9300
C(4)-C(5)	1.363(9)	C(12)-C(13)	1.360(9)
C(4)-C(7)	1.497(9)	C(12)-C(15)	1.507(9)
C(5)-C(6)	1.363(9)	C(13)-C(14)	1.362(9)
C(5)-H(3)	0.9300	C(13)-H(9)	0.9300
C(6)-H(4)	0.9300	C(14)-H(10)	0.9300
N(1)-O(1)	1.199(9)	N(2)-O(4)	1.201(9)
N(1)-O(2)	1.207(9)	N(2)-O(3)	1.206(9)
C(7)-C(8)	1.505(10)	C(15)-C(16)	1.497(10)
C(7)-Br(2)	1.939(7)	C(15)-Br(5)	1.953(7)
C(7)-Br(1)	1.989(7)	C(15)-Br(4)	1.986(7)
C(8)-Br(3)	1.961(7)	C(16)-Br(6)	1.952(7)
C(8)-H(5)	0.9700	C(16)-H(11)	0.9700
C(8)-H(6)	0.9700	C(16)-H(12)	0.9700
C(2)-C(1)-C(6)	121.5(8)	C(3)-C(4)-C(7)	121.4(8)
C(2)-C(1)-N(1)	118.4(9)	C(4)-C(5)-C(6)	123.3(8)
C(6)-C(1)-N(1)	120.2(9)	C(4)-C(5)-H(3)	118.4
C(1)-C(2)-C(3)	119.0(8)	C(6)-C(5)-H(3)	118.4
C(1)-C(2)-H(1)	120.5	C(5)-C(6)-C(1)	118.1(8)
C(3)-C(2)-H(1)	120.5	C(5)-C(6)-H(4)	121.0
C(4)-C(3)-C(2)	120.7(8)	C(1)-C(6)-H(4)	121.0
C(4)-C(3)-H(2)	119.7	O(1)-N(1)-O(2)	123.4(10)
C(2)-C(3)-H(2)	119.7	O(1)-N(1)-C(1)	118.5(10)
C(5)-C(4)-C(3)	117.5(7)	O(2)-N(1)-C(1)	118.0(10)
C(5)-C(4)-C(7)	121.1(7)	C(4)-C(7)-C(8)	118.3(7)

C(4)-C(7)-Br(2)	111.4(6)	C(16)-C(15)-Br(5)	109.2(5)
C(8)-C(7)-Br(2)	108.9(5)	C(12)-C(15)-Br(5)	110.2(5)
C(4)-C(7)-Br(1)	107.5(5)	C(16)-C(15)-Br(4)	103.9(5)
C(8)-C(7)-Br(1)	102.4(5)	C(12)-C(15)-Br(4)	107.9(5)
Br(2)-C(7)-Br(1)	107.4(3)	Br(5)-C(15)-Br(4)	106.8(3)
C(7)-C(8)-Br(3)	110.2(5)	C(15)-C(16)-Br(6)	110.8(5)
C(7)-C(8)-H(5)	109.6	C(15)-C(16)-H(11)	109.5
Br(3)-C(8)-H(5)	109.6	Br(6)-C(16)-H(11)	109.5
C(7)-C(8)-H(6)	109.6	C(15)-C(16)-H(12)	109.5
Br(3)-C(8)-H(6)	109.6	Br(6)-C(16)-H(12)	109.5
H(5)-C(8)-H(6)	108.1	H(11)-C(16)-H(12)	108.1
C(10)-C(9)-C(14)	122.0(8)		
C(10)-C(9)-N(2)	117.6(8)		
C(14)-C(9)-N(2)	120.4(9)		
C(9)-C(10)-C(11)	119.1(8)		
C(9)-C(10)-H(7)	120.4		
C(11)-C(10)-H(7)	120.4		
C(10)-C(11)-C(12)	119.4(8)		
C(10)-C(11)-H(8)	120.3		
C(12)-C(11)-H(8)	120.3		
C(13)-C(12)-C(11)	119.0(7)		
C(13)-C(12)-C(15)	120.7(7)		
C(11)-C(12)-C(15)	120.3(7)		
C(12)-C(13)-C(14)	121.6(7)		
C(12)-C(13)-H(9)	119.2		
C(14)-C(13)-H(9)	119.2		
C(13)-C(14)-C(9)	118.9(8)		
C(13)-C(14)-H(10)	120.6		
C(9)-C(14)-H(10)	120.6		
O(4)-N(2)-O(3)	121.8(9)		
O(4)-N(2)-C(9)	119.4(9)		
O(3)-N(2)-C(9)	118.8(9)		
C(16)-C(15)-C(12)	118.1(7)		

Symmetry transformations used to generate equivalent atoms:

Figure 2. ORTEP drawing for Tellurium dibromide **5e**.

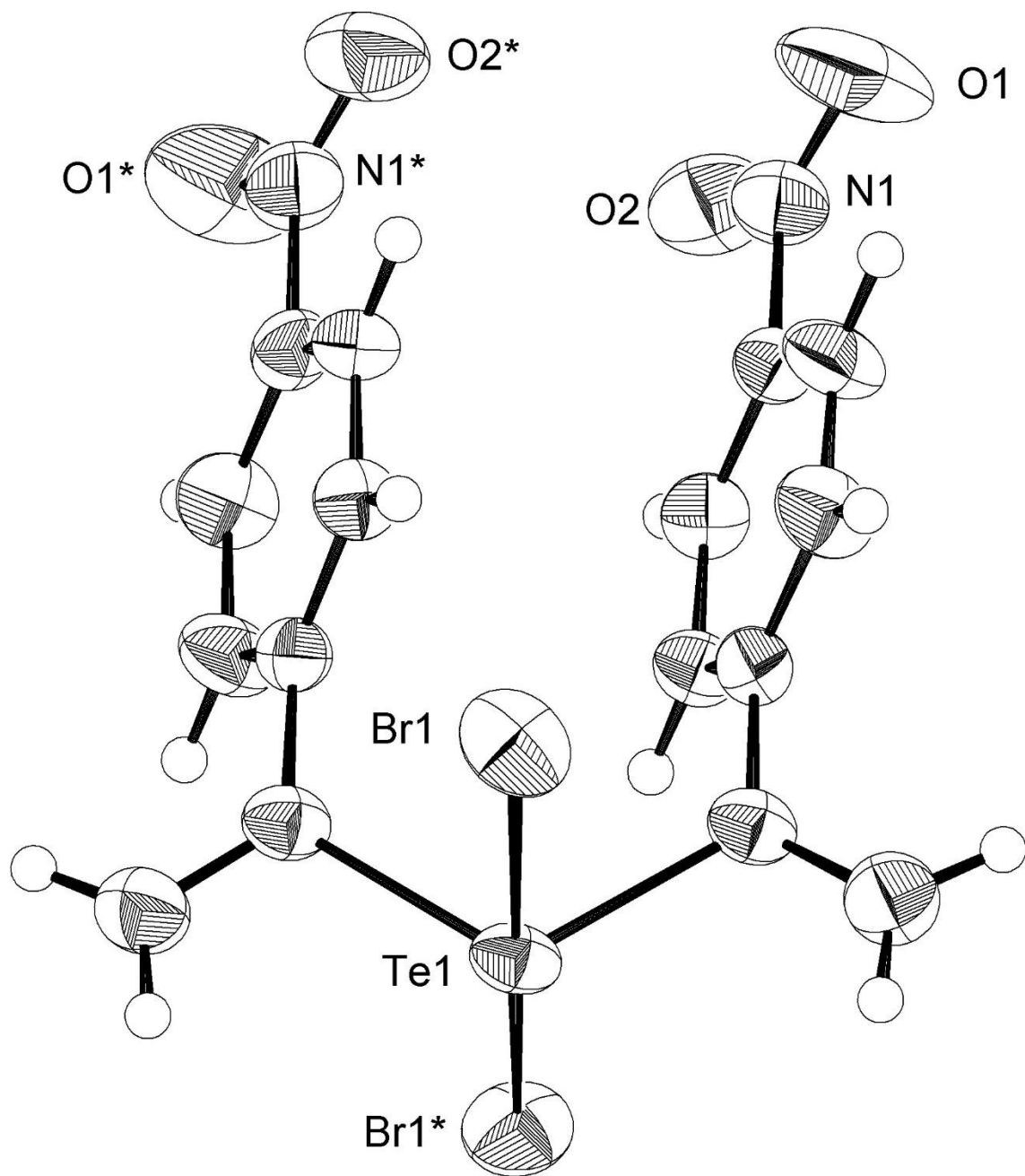


Table 4. Crystal data and structure refinement for tellurium dibromide **5e** (200123).

Identification code	200123	
Empirical formula	C ₁₆ H ₁₂ Br ₂ N ₂ O ₄ Te	
Formula weight	583.70	
Temperature	293(2) K	
Wavelength	0.71075 Å	
Crystal system	monoclinic	
Space group	C2/c	
Unit cell dimensions	a = 15.726(10) Å	α = 90°.
	b = 10.425(5) Å	β = 121.565(8)°.
	c = 13.630(8) Å	γ = 90°.
Volume	1904.0(18) Å ³	
Z	4	
Density (calculated)	2.036 Mg/m ³	
Absorption coefficient	5.782 mm ⁻¹	
F(000)	1104	
Crystal size	0.20 x 0.15 x 0.10 mm ³	
Theta range for data collection	3.46 to 25.99°.	
Index ranges	-19 ≤ h ≤ 19, -12 ≤ k ≤ 12, -16 ≤ l ≤ 16	
Reflections collected	9702	
Independent reflections	1875 [R(int) = 0.0400]	
Completeness to theta = 25.99°	99.8 %	
Max. and min. transmission	0.5956 and 0.3910	
Refinement method	Full-matrix least-squares on F ²	
Data / restraints / parameters	1875 / 0 / 114	
Goodness-of-fit on F ²	1.041	
Final R indices [I > 2σ(I)]	R1 = 0.0339, wR2 = 0.0720	
R indices (all data)	R1 = 0.0437, wR2 = 0.0764	
Largest diff. peak and hole	1.646 and -0.512 e.Å ⁻³	

Table 5. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 200123. $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U^{ij} tensor.

	x	y	z	$U(\text{eq})$
Te(1)	0	370(1)	7500	39(1)
Br(1)	1837(1)	566(1)	9347(1)	62(1)
C(1)	519(3)	1528(3)	6628(3)	39(1)
C(2)	920(3)	836(4)	6182(4)	54(1)
C(3)	476(3)	2947(3)	6601(3)	36(1)
C(4)	1371(3)	3612(4)	7091(4)	51(1)
C(5)	1375(3)	4938(4)	7064(4)	53(1)
C(6)	479(3)	5562(3)	6541(4)	41(1)
C(7)	-414(3)	4933(4)	6041(3)	42(1)
C(8)	-414(3)	3608(4)	6070(3)	39(1)
N(1)	479(3)	6975(3)	6528(3)	54(1)
O(1)	1247(3)	7534(3)	6865(4)	106(2)
O(2)	-311(3)	7525(3)	6162(3)	75(1)

Table 6. Bond lengths [Å] and angles [°] for 200123.

Te(1)-C(1)#1	2.133(4)	C(4)-H(3)	0.9300
Te(1)-C(1)	2.133(4)	C(5)-C(6)	1.365(6)
Te(1)-Br(1)	2.6669(13)	C(5)-H(4)	0.9300
Te(1)-Br(1)#1	2.6669(13)	C(6)-C(7)	1.366(6)
C(1)-C(2)	1.299(6)	C(6)-N(1)	1.473(5)
C(1)-C(3)	1.481(5)	C(7)-C(8)	1.382(5)
C(2)-H(1)	0.9300	C(7)-H(5)	0.9300
C(2)-H(2)	0.9300	C(8)-H(6)	0.9300
C(3)-C(8)	1.377(5)	N(1)-O(1)	1.195(5)
C(3)-C(4)	1.387(5)	N(1)-O(2)	1.213(5)
C(4)-C(5)	1.383(6)		
C(1)#1-Te(1)-C(1)	111.1(2)	C(6)-C(5)-H(4)	120.9
C(1)#1-Te(1)-Br(1)	88.40(11)	C(4)-C(5)-H(4)	120.9
C(1)-Te(1)-Br(1)	86.63(11)	C(5)-C(6)-C(7)	122.8(4)
C(1)#1-Te(1)-Br(1)#1	86.63(11)	C(5)-C(6)-N(1)	118.5(4)
C(1)-Te(1)-Br(1)#1	88.40(11)	C(7)-C(6)-N(1)	118.7(4)
Br(1)-Te(1)-Br(1)#1	171.20(3)	C(6)-C(7)-C(8)	118.8(4)
C(2)-C(1)-C(3)	124.8(4)	C(6)-C(7)-H(5)	120.6
C(2)-C(1)-Te(1)	111.6(3)	C(8)-C(7)-H(5)	120.6
C(3)-C(1)-Te(1)	123.6(3)	C(3)-C(8)-C(7)	120.0(4)
C(1)-C(2)-H(1)	120.0	C(3)-C(8)-H(6)	120.0
C(1)-C(2)-H(2)	120.0	C(7)-C(8)-H(6)	120.0
H(1)-C(2)-H(2)	120.0	O(1)-N(1)-O(2)	122.5(4)
C(8)-C(3)-C(4)	119.9(4)	O(1)-N(1)-C(6)	119.3(4)
C(8)-C(3)-C(1)	122.3(3)	O(2)-N(1)-C(6)	118.2(4)
C(4)-C(3)-C(1)	117.7(3)		
C(5)-C(4)-C(3)	120.3(4)		
C(5)-C(4)-H(3)	119.9		
C(3)-C(4)-H(3)	119.9		
C(6)-C(5)-C(4)	118.2(4)		

Symmetry transformations used to generate equivalent atoms:

#1 $-x, y, -z+3/2$

Table 7. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 200123. The anisotropic displacement factor exponent takes the form: $-2\pi^2 [h^2 a^{*2} U^{11} + \dots + 2 h k a^* b^* U^{12}]$

	U^{11}	U^{22}	U^{33}	U^{23}	U^{13}	U^{12}
Te(1)	33(1)	28(1)	50(1)	0	18(1)	0
Br(1)	34(1)	74(1)	59(1)	13(1)	13(1)	4(1)
C(1)	32(2)	35(2)	46(2)	2(2)	17(2)	0(2)
C(2)	58(3)	44(2)	64(3)	2(2)	35(3)	5(2)
C(3)	35(2)	35(2)	38(2)	3(2)	20(2)	2(2)
C(4)	36(2)	46(2)	72(3)	4(2)	28(2)	6(2)
C(5)	40(3)	44(2)	74(3)	-4(2)	29(2)	-11(2)
C(6)	51(3)	33(2)	44(3)	0(2)	28(2)	-4(2)
C(7)	41(2)	36(2)	44(2)	6(2)	20(2)	8(2)
C(8)	32(2)	40(2)	42(2)	-1(2)	16(2)	-3(2)
N(1)	68(3)	35(2)	66(3)	0(2)	39(2)	-4(2)
O(1)	84(3)	47(2)	185(5)	-7(2)	69(3)	-21(2)
O(2)	90(3)	42(2)	87(3)	1(2)	43(3)	11(2)

Table 8. Hydrogen coordinates ($\times 10^4$) and isotropic displacement parameters ($\text{\AA}^2 \times 10^{-3}$) for 200123.

	x	y	z	U(eq)
H(1)	1208	1231	5813	65
H(2)	920	-53	6232	65
H(3)	1971	3164	7440	62
H(4)	1971	5392	7393	64
H(5)	-1011	5387	5687	50
H(6)	-1015	3163	5731	47

Table 9. Torsion angles [°] for 200123.

C(1)#1-Te(1)-C(1)-C(2)	174.1(4)
Br(1)-Te(1)-C(1)-C(2)	87.2(3)
Br(1)#1-Te(1)-C(1)-C(2)	-100.1(3)
C(1)#1-Te(1)-C(1)-C(3)	-2.5(3)
Br(1)-Te(1)-C(1)-C(3)	-89.5(3)
Br(1)#1-Te(1)-C(1)-C(3)	83.3(3)
C(2)-C(1)-C(3)-C(8)	118.9(5)
Te(1)-C(1)-C(3)-C(8)	-64.9(5)
C(2)-C(1)-C(3)-C(4)	-58.3(6)
Te(1)-C(1)-C(3)-C(4)	117.9(4)
C(8)-C(3)-C(4)-C(5)	0.9(7)
C(1)-C(3)-C(4)-C(5)	178.3(4)
C(3)-C(4)-C(5)-C(6)	-0.2(7)
C(4)-C(5)-C(6)-C(7)	-0.4(7)
C(4)-C(5)-C(6)-N(1)	178.9(4)
C(5)-C(6)-C(7)-C(8)	0.4(7)
N(1)-C(6)-C(7)-C(8)	-178.9(4)
C(4)-C(3)-C(8)-C(7)	-0.9(6)
C(1)-C(3)-C(8)-C(7)	-178.2(4)
C(6)-C(7)-C(8)-C(3)	0.3(6)
C(5)-C(6)-N(1)-O(1)	7.6(7)
C(7)-C(6)-N(1)-O(1)	-173.1(5)
C(5)-C(6)-N(1)-O(2)	-173.0(4)
C(7)-C(6)-N(1)-O(2)	6.3(6)

Symmetry transformations used to generate equivalent atoms:

#1 -x,y,-z+3/2