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LIST OF ABBREVIATIONS AND SYMBOLS

δ	Chemical shift
λ	wavelength
$[\alpha]_D$	Specific rotation
\varnothing	diameter
μm	Micrometer
μL	Microlitre
$^{\circ}\text{C}$	Degree celsius
1D	One dimension
2D	Two dimensions
3D	Three dimensions
$^1\text{H NMR}$	Proton nuclear magnetic resonance
$^{13}\text{C NMR}$	Carbon nuclear magnetic resonance
ANOVA	Analysis of variance
Aq.	Aqueous
br.s.	Broad singlet
calcd	Calculated
cm	Centimeter
cm^2	Square centimeter
CC	Column chromatography
CDCl_3	Deuterated chloroform

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

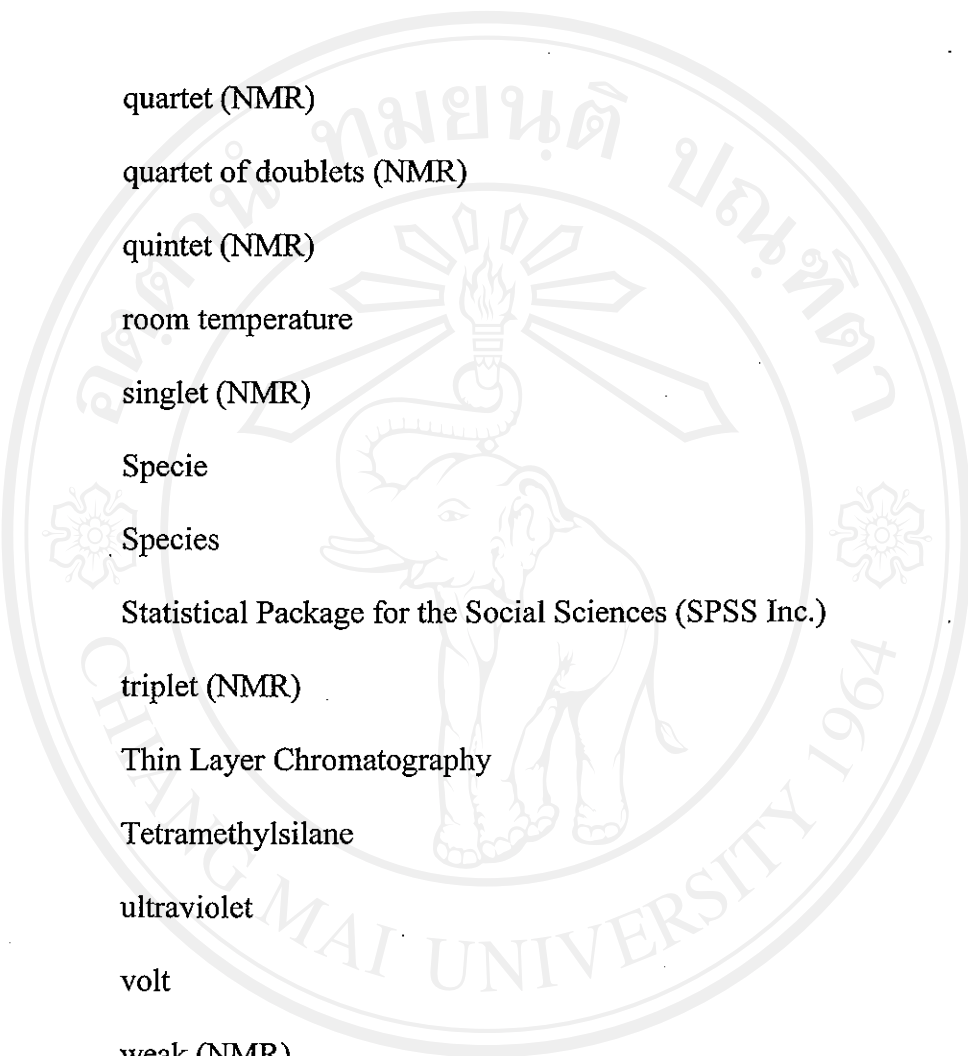
CD ₃ OD	Deuterated methanol
CHCl ₃	Chloroform
CeCl ₃ .H ₂ O	Cerium chloride
COSY	correlation spectroscopy
d	doublet
dd	doublet of doublets (NMR)
dq	doublet of quartets (NMR)
dt	doublet of triplets (NMR)
ddd	doublet of doublet of doublets (NMR)
ddq	doublet of doublet of quartets (NMR)
dddd	doublet of doublet of doublet of doublets (NMR)
DCM/CH ₂ Cl ₂	Dichloromethane
DEPT	Distortionless Enhanced Polarization Transfer
DMAP	4-Dimethylaminopyridine
etc.	et cetera.
eV	electron volt
Et ₃ N	Trimethylamine
EIMS	Electron impact mass spectrum
EI +ve	electron impact (positive ion mode)
ESIMS	electrospray ionization mass spectrum
ESI +ve	electrospray ionization (positive ion mode)

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

Fig.	figure
g	gram
h/hrs	hours
H ₂ O ₂	Hydrogen peroxide
HCl	Hydrochloric acid
HMBC	Heteronuclear Multiple Bond Correlation
HPTLC	High Performance Thin Layer Chromatography
HRMS	High Resolution Mass Spectroscopy
HSQC	Heteronuclear Single Quantum Correlation
Hz	Hertz
i.e.	That is
J	coupling constant (NMR)
kg	kilogram
K ₂ CO ₃	Potassium carbonate
KI	Potassium iodide
lit.	literature
LC ₅₀	lethal concentration for 50% mortality of the test organism
LD ₅₀	lethal dose for 50% mortality of the test organism
LSD	Least Significant Difference
m	multiplet (NMR)
m ²	Square meters

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

m/z	mass number divided by its charge
mg	milligram
mm	millimetre
mult	multiplicity (NMR)
mL	millilitre
M^+	molecular ion
Me	methyl
MeOH	Methanol
MHz	megahertz
MTPACl	α -Methoxy- α -(trifluoromethyl) phenylacetyl chloride
nm	nanometre
$NaBH_4$	Sodium borohydride
NH_3	Ammonia
NMR	Nuclear Magnetic Resonance
NOESY	Nuclear overhauser effect spectroscopy
OH	Hydroxy
OMe	Methoxy
ppm	parts per million
Ph	Phenyl
PEG	Polyethyleneglycol
PTLC	Preparative Thin Layer Chromatography

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

q	quartet (NMR)
qd	quartet of doublets (NMR)
quin	quintet (NMR)
RT	room temperature
s	singlet (NMR)
Sp.	Specie
Spp.	Species
SPSS	Statistical Package for the Social Sciences (SPSS Inc.)
t	triplet (NMR)
TLC	Thin Layer Chromatography
TMS	Tetramethylsilane
UV	ultraviolet
V	volt
(w)	weak (NMR)

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