



APPENDIX

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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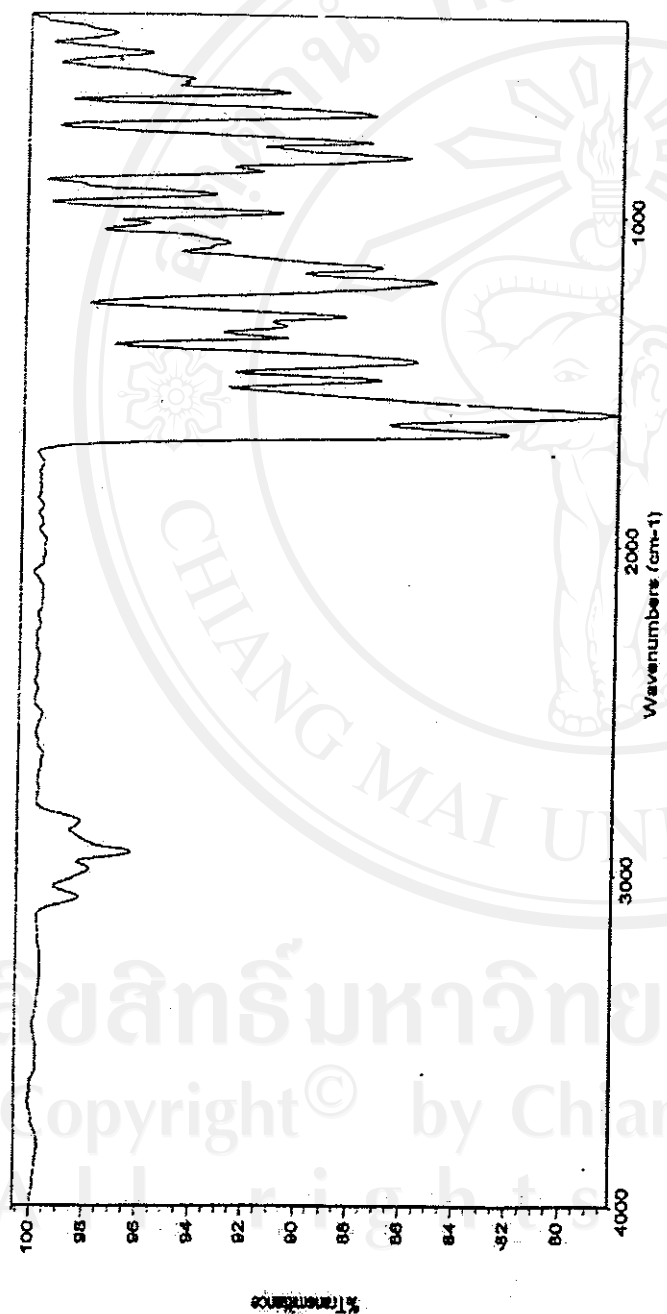


Figure A-1 The IR spectrum of compound KPI-002P, KPI-004-5P and KPI-010P

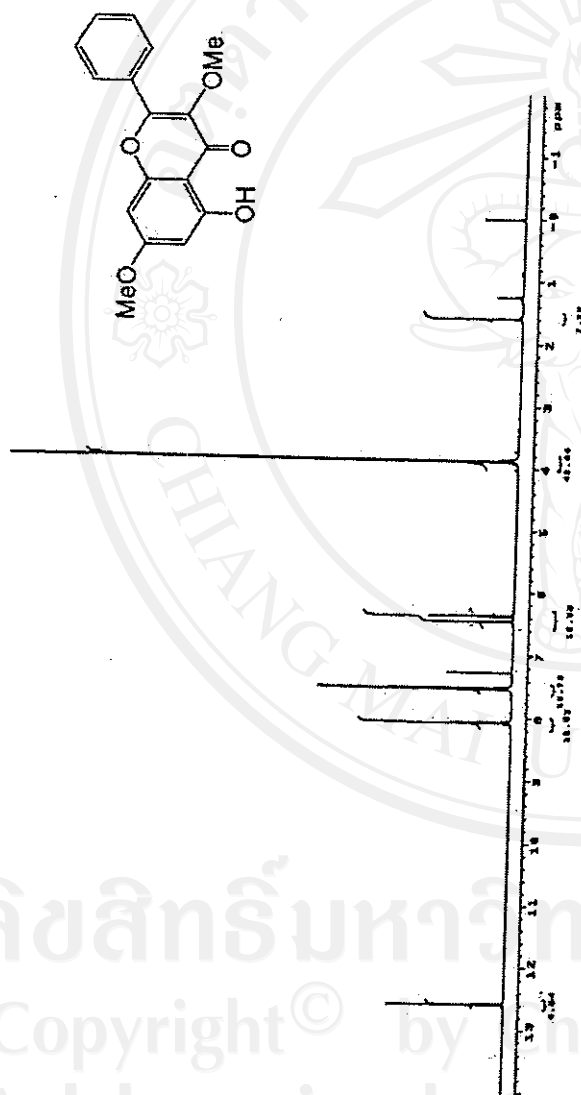


Figure A-2 The ¹H-NMR spectrum of compound KP1-002P, KP1-004-3P and KP1-010P

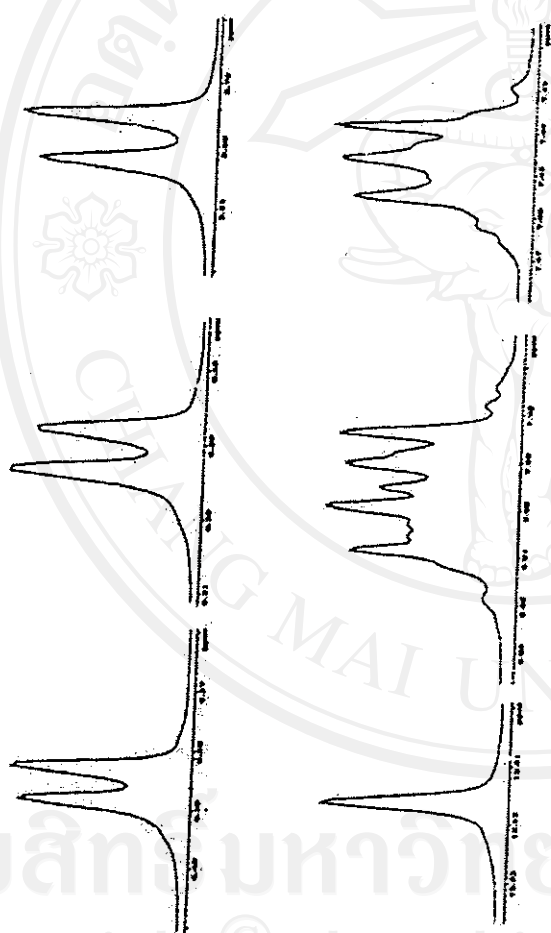


Figure A-3 The ^1H -NMR expanded spectrum of compound KP1-002P, KP1-004-5P and KP1-010P

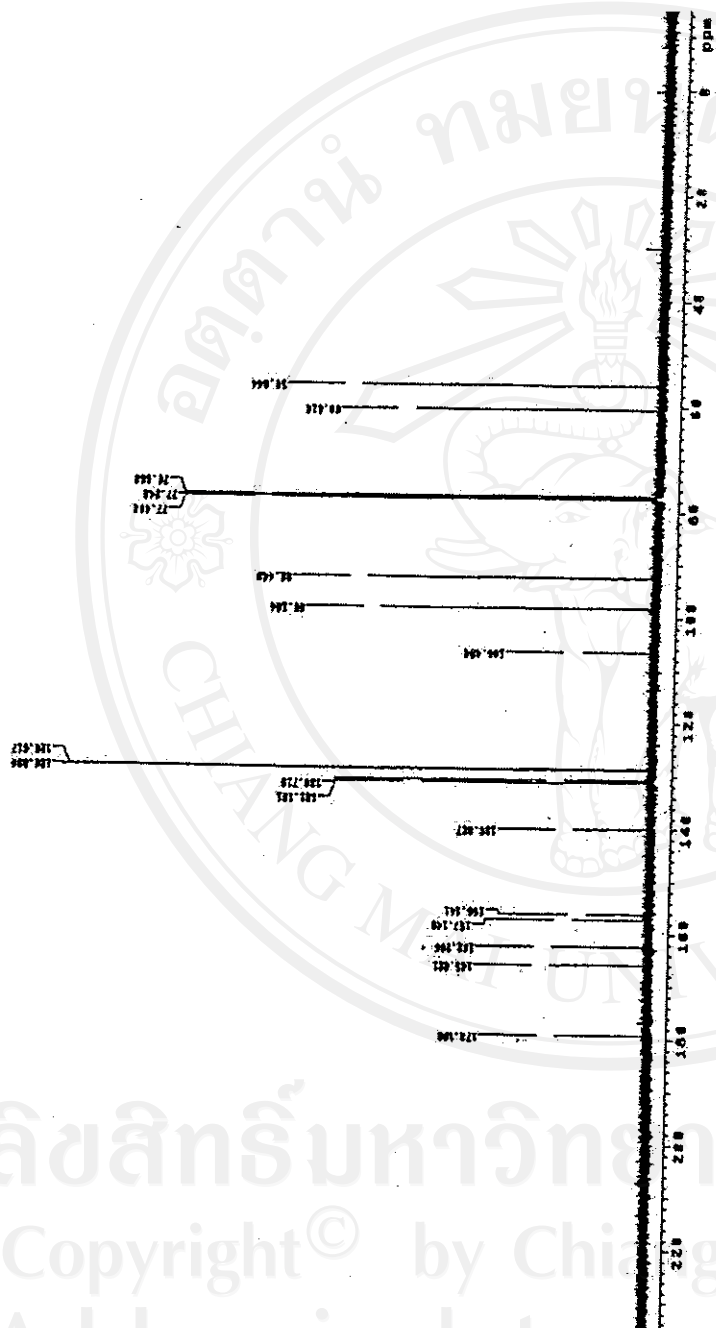


Figure A-4 The ^{13}C -NMR spectrum of compound KP1-002P, KP1-004-5P and KP1-010P

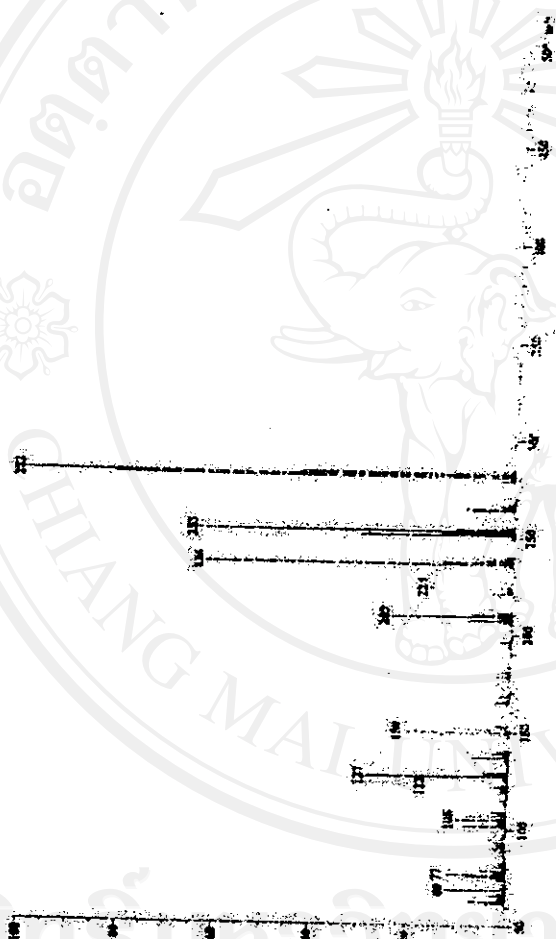


Figure A-5 The mass spectrum of compound KPI-002P, KPI-004-3P and KPI-010P.

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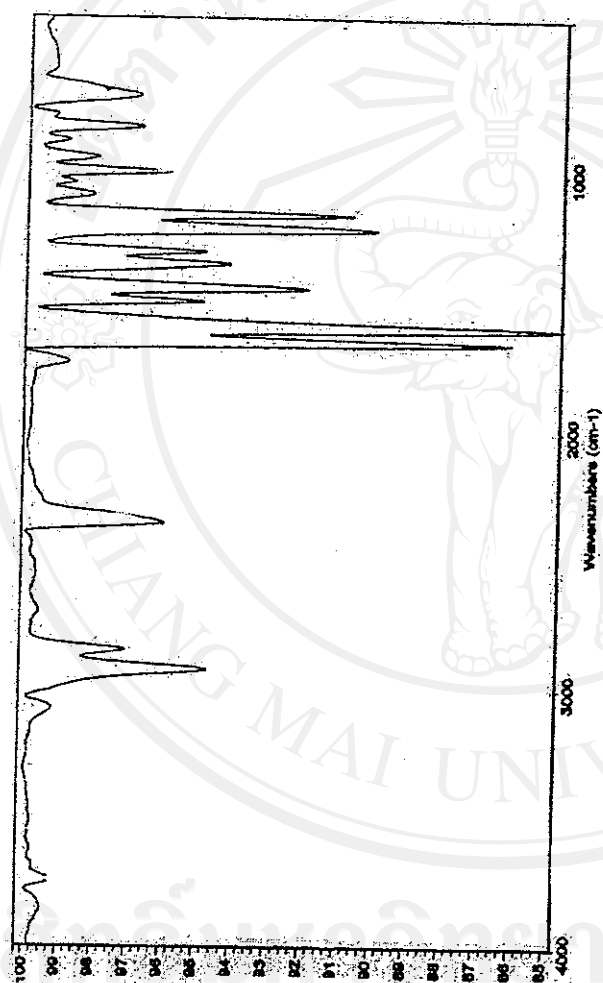


Figure B-1 The IR spectrum of compound KPI-005-2P and KPI-007-6P

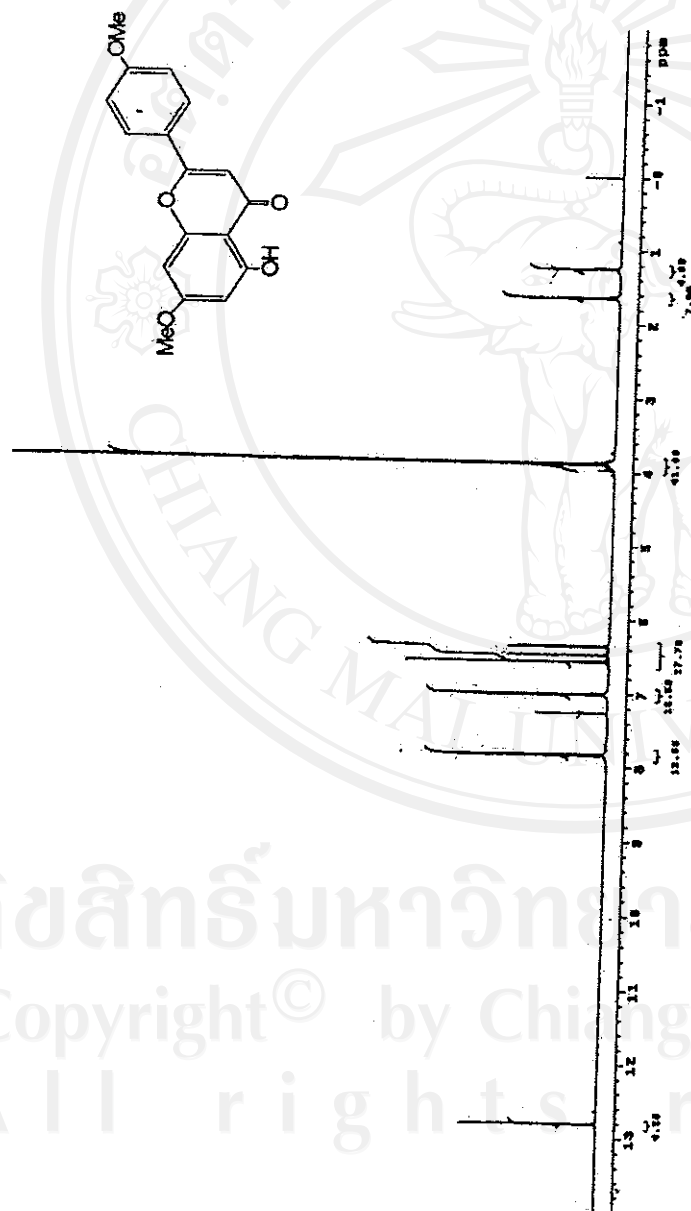


Figure B-2 The ¹H-NMR spectrum of compound KP1-005-2P and KP1-007-6P

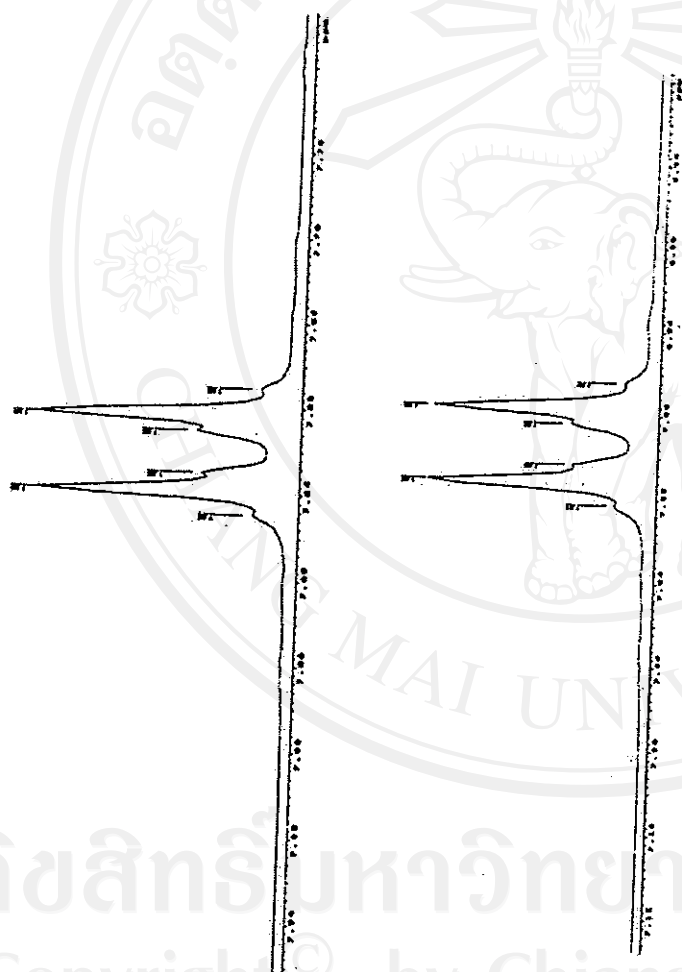


Figure B-3 The ^1H -NMR expanded spectrum of compound KP1-005-2P and KP1-007-6P

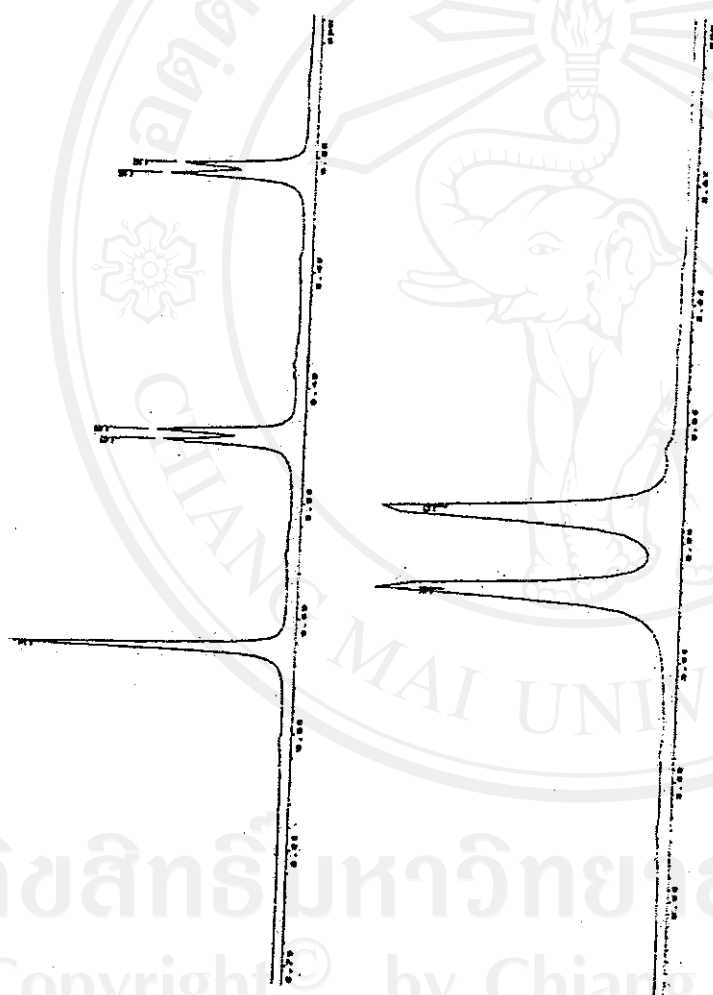


Figure B-4 The ^1H -NMR expanded spectrum of compound KPI-005-2P and KPI-007-6P

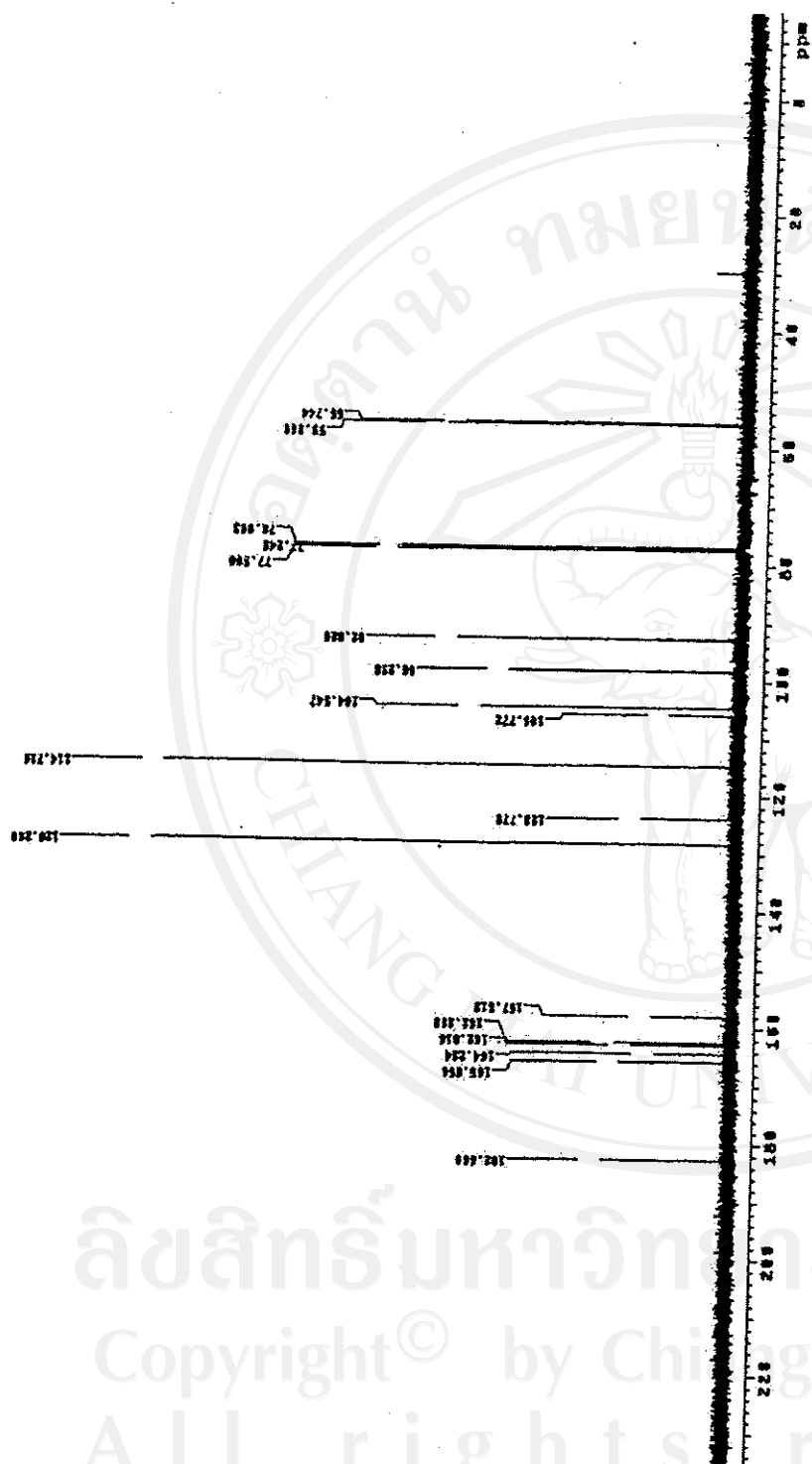


Figure B-5 The ^{13}C -NMR spectrum of compound KPI-005-2 and KPI-007-6P

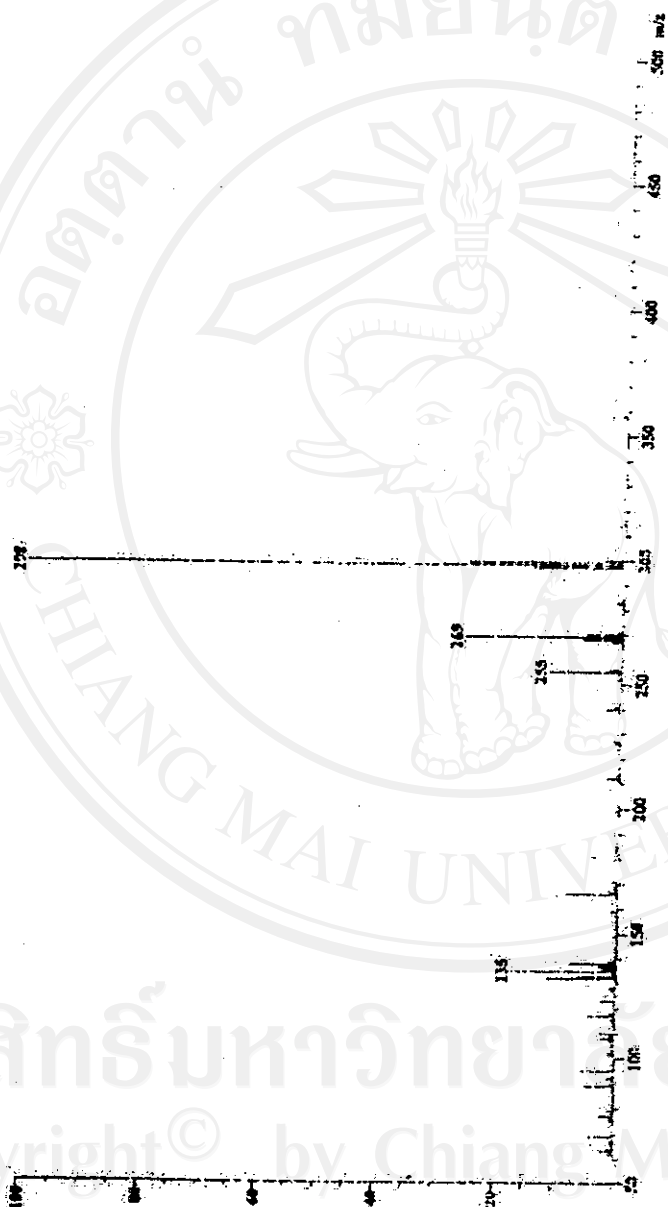


Figure B-6 The mass spectrum of compound KPI-005-2P and KPI-007-6P

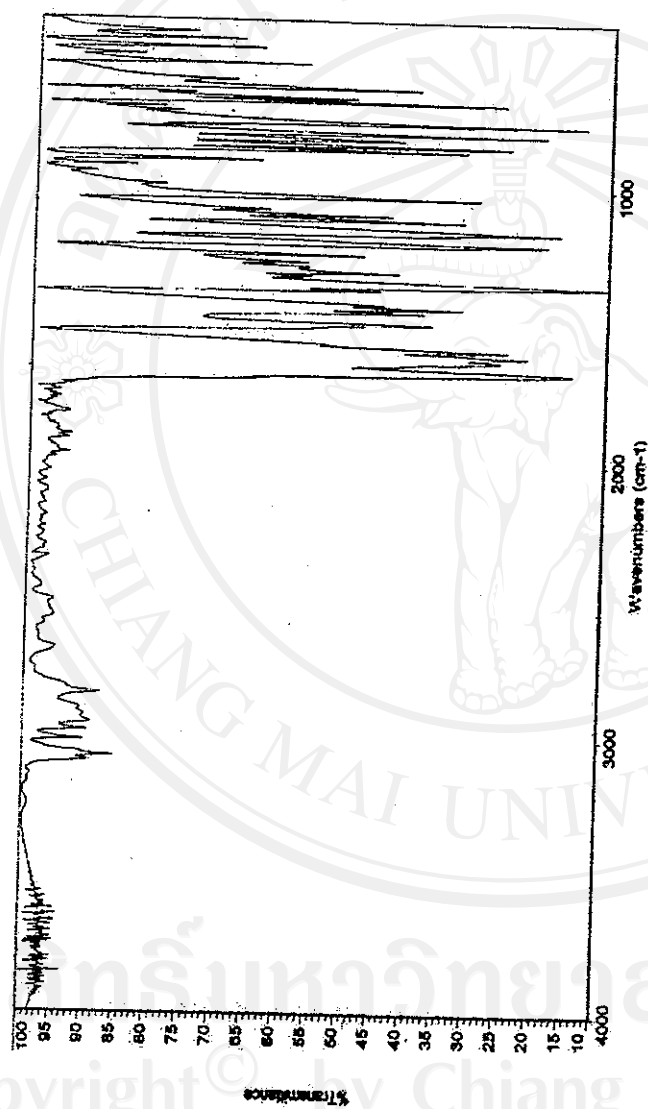


Figure C-1 The IR spectrum of compound KP1-006-5P and KP2-007-2-02P

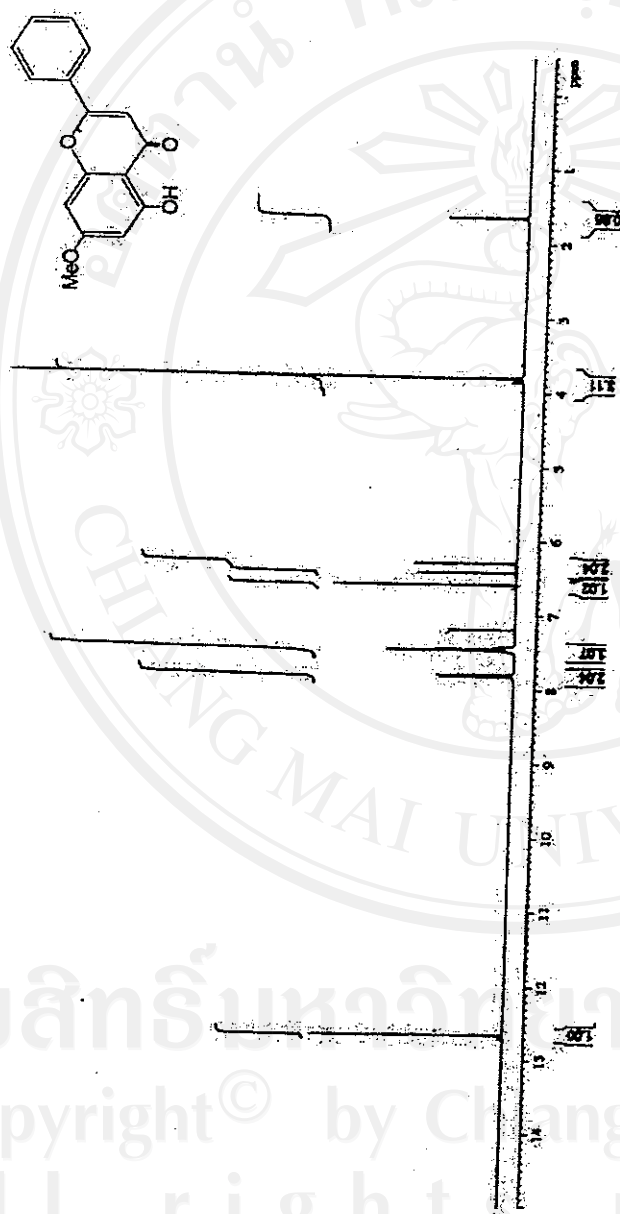


Figure C-2 The ¹H-NMR spectrum of compound KPI-006-5P and KP2-007-2-02P

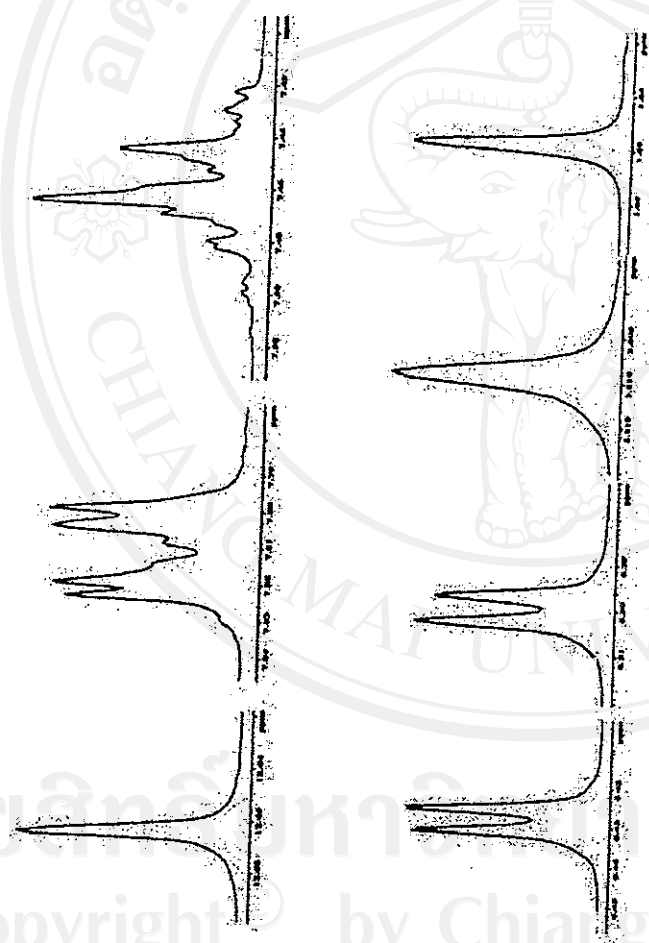


Figure C-3 The ^1H -NMR expanded spectrum of compound KP1-006-5P and KP2-007-2-02P

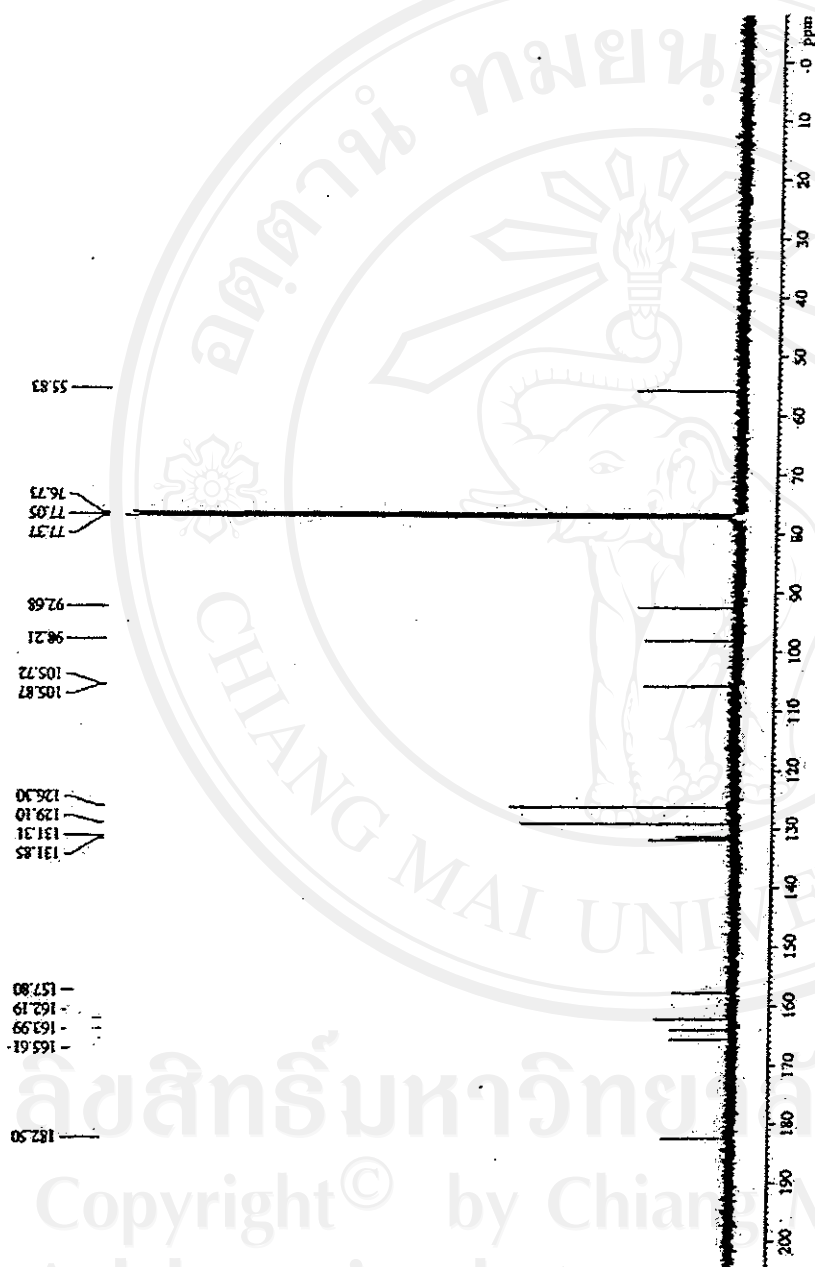


Figure C-4 The ^{13}C -NMR spectrum of compound KPI-006-5 and KP2-007-2-02P

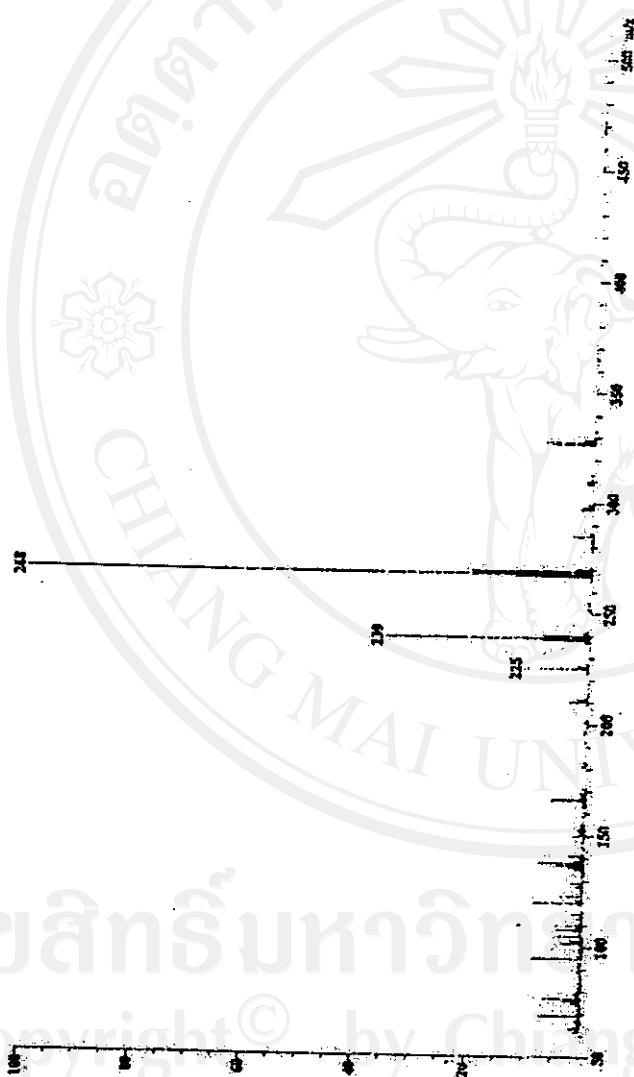


Figure C-5 The mass spectrum of compound KP1-006-SP and KP2-007-2-02P.

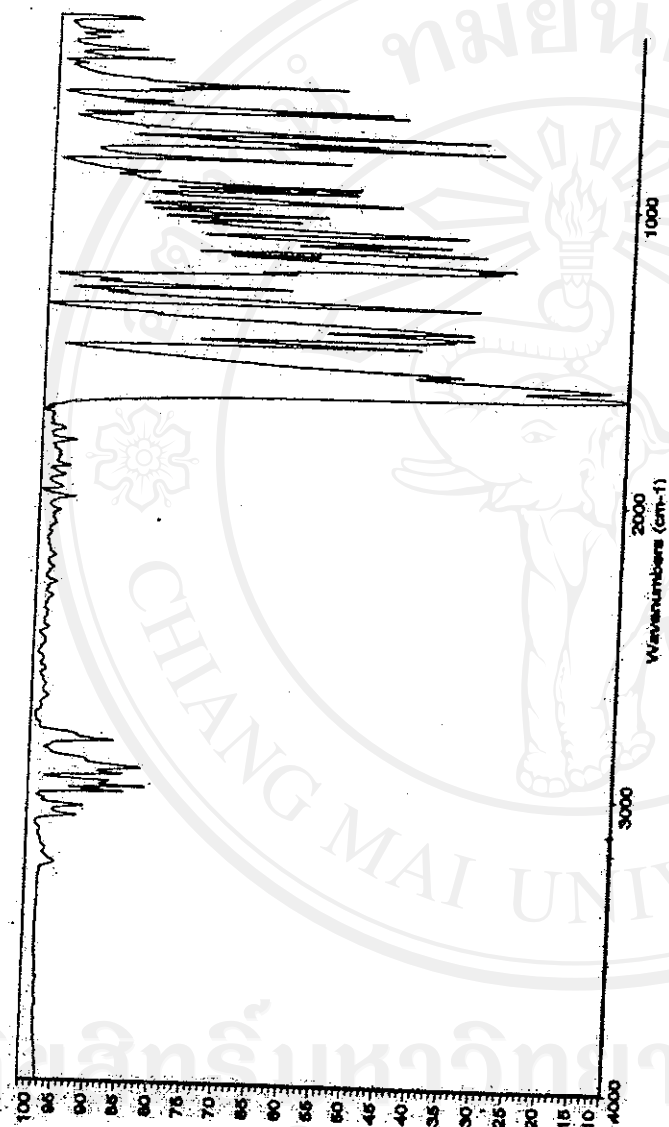


Figure D-1 The IR spectrum of compound KP1-012P and KP2-007-IP

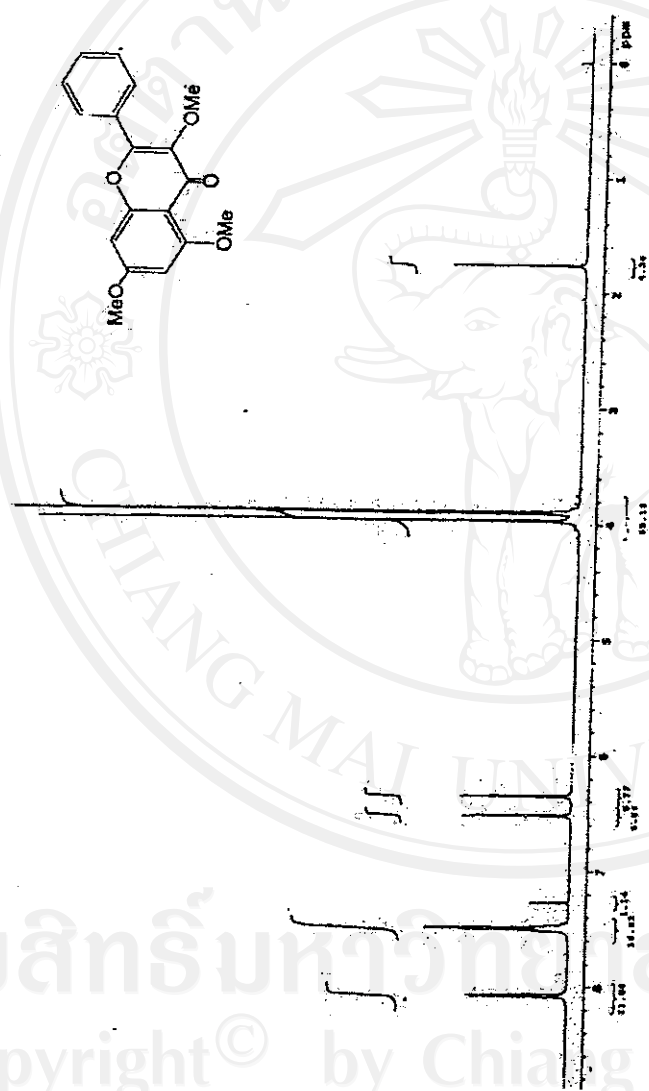


Figure D-2 The $^1\text{H-NMR}$ spectrum of compound KP1-012P and KP2-007-1P

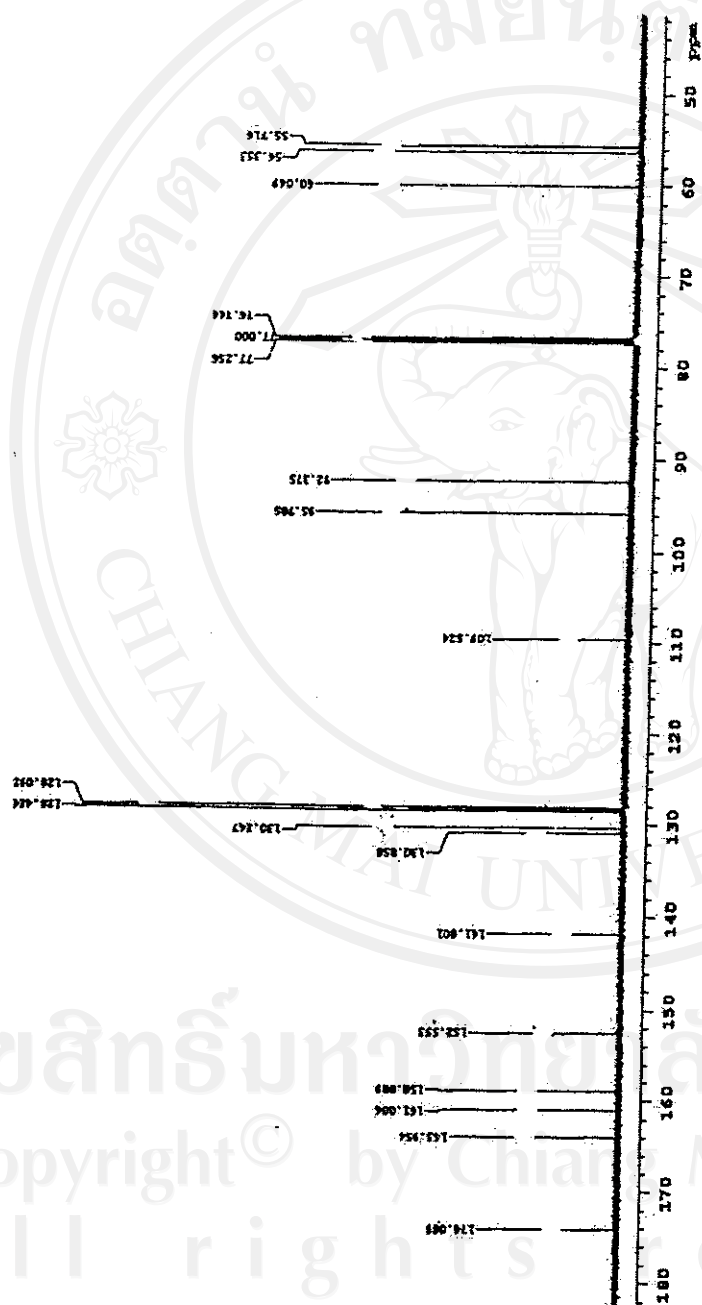


Figure D-3 The ^{13}C -NMR spectrum of compound KPI-012P and KP2-007-1P

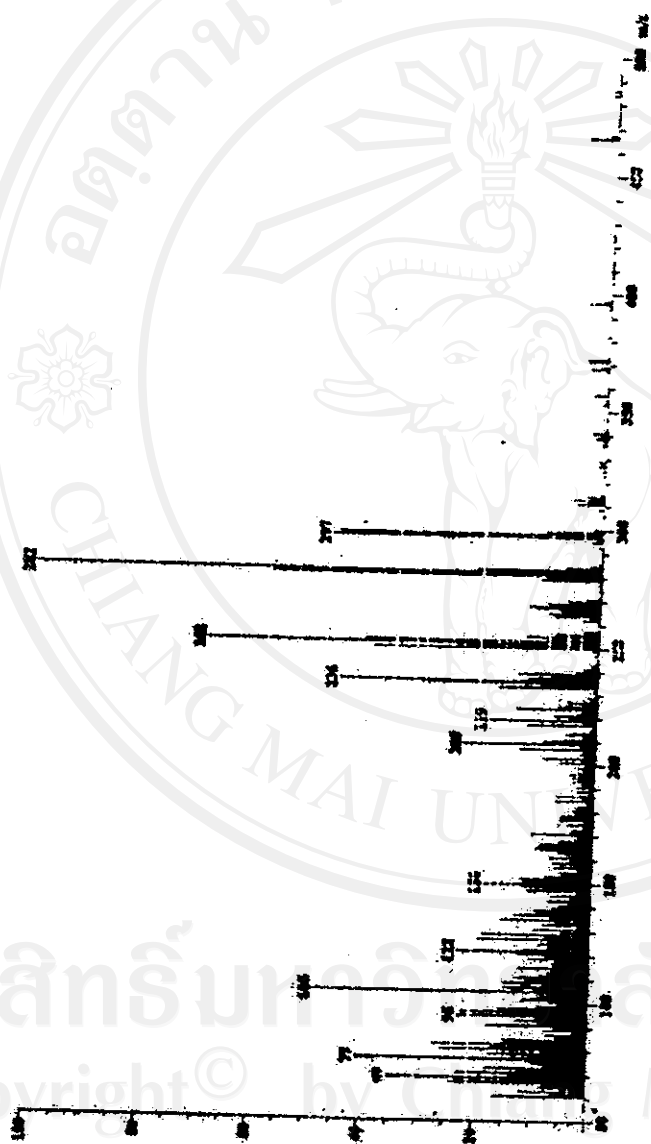


Figure D-4 The mass spectrum of compound KP1-012P and KP2-007-1P

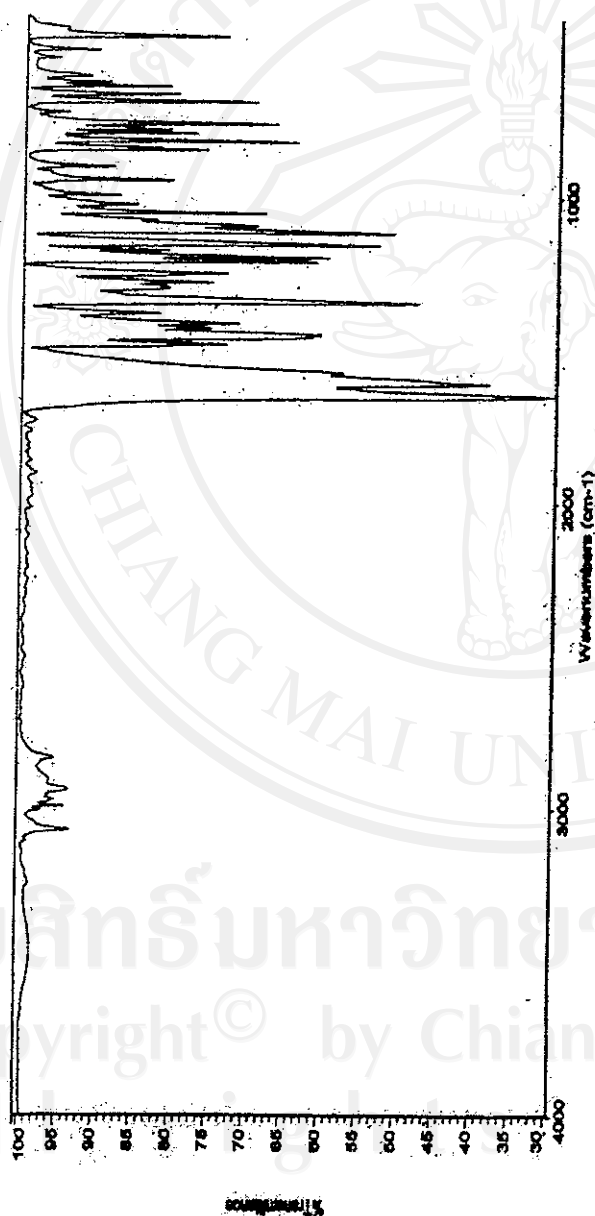


Figure E-1 The IR spectrum of compound KP2-006-2P

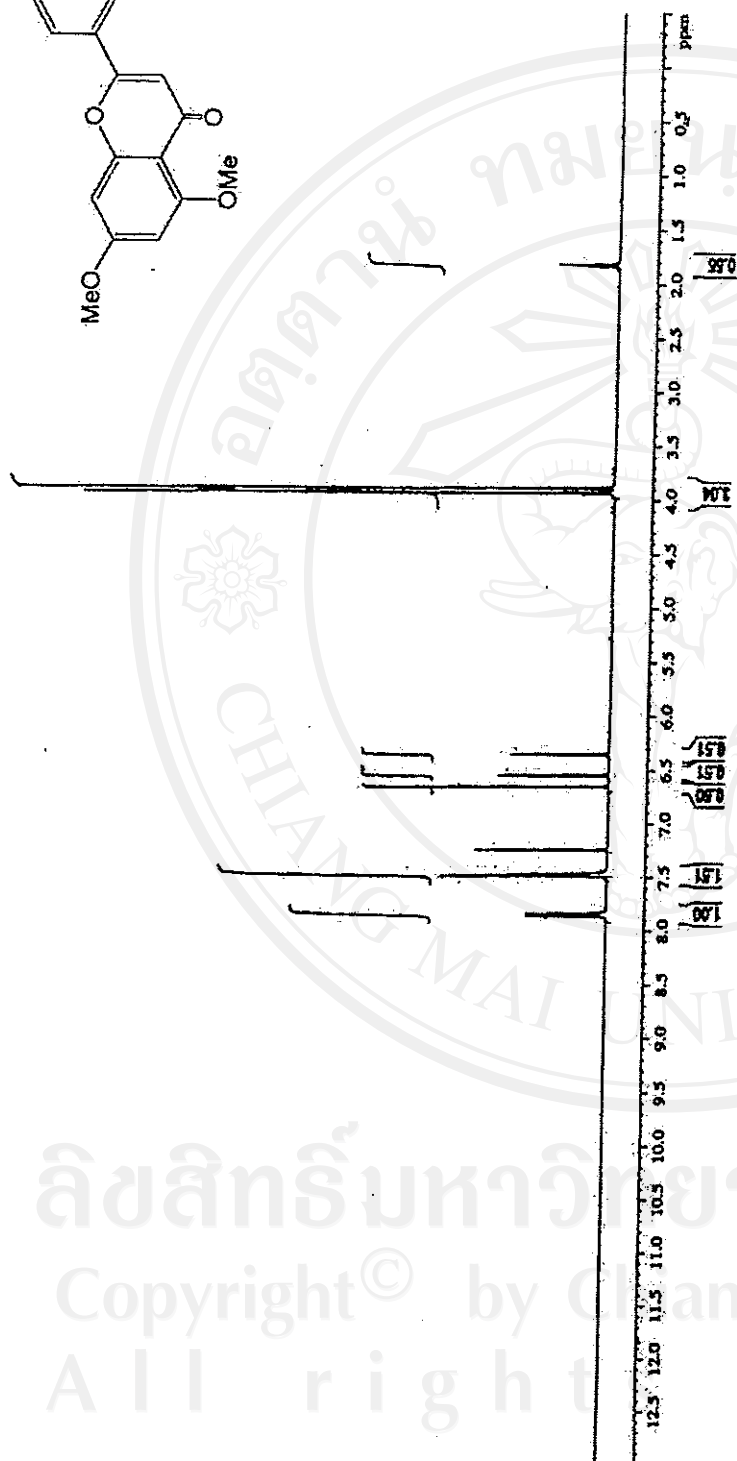


Figure E-2 The ¹H-NMR spectrum of compound KP2-005 and KP2-006-2p

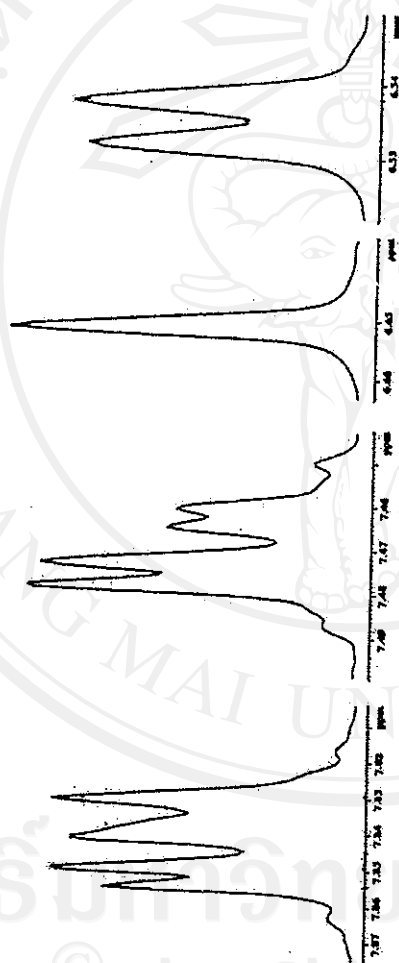


Figure E-3 The $^1\text{H-NMR}$ expanded spectrum of compound KP2-005P and KP2-006-2P

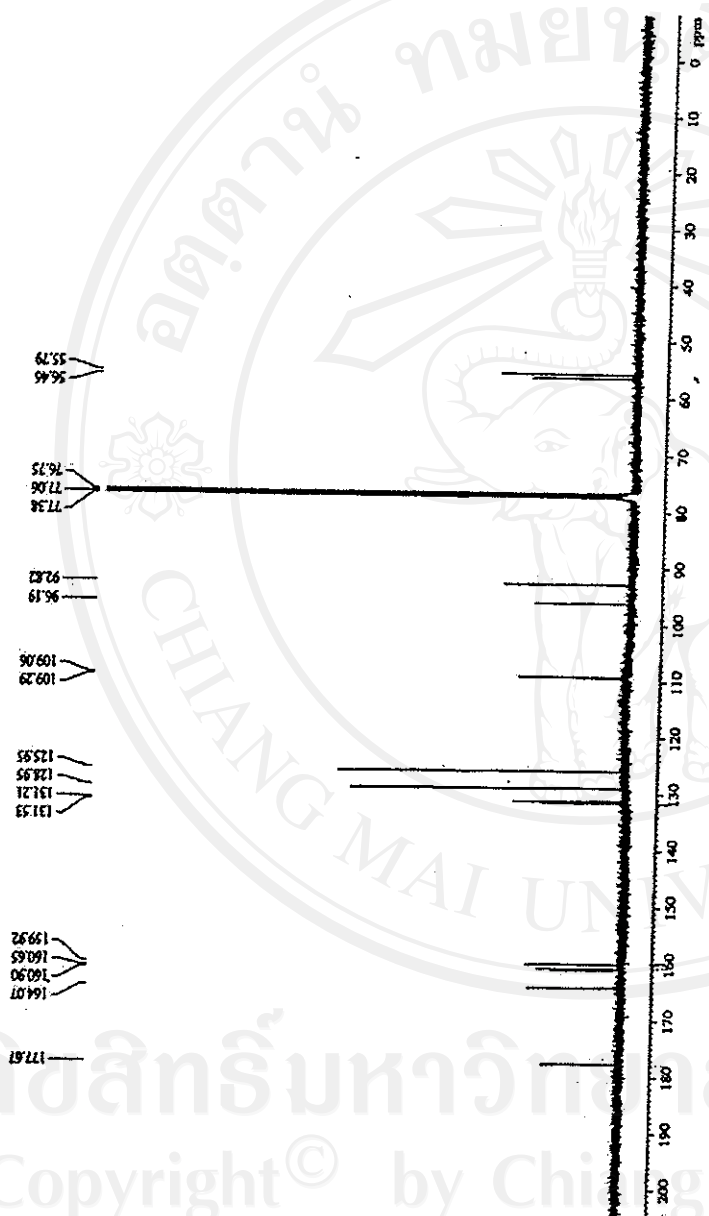


Figure E-4 The ^{13}C -NMR spectrum of compound KP2-005 and KP2-006-2P

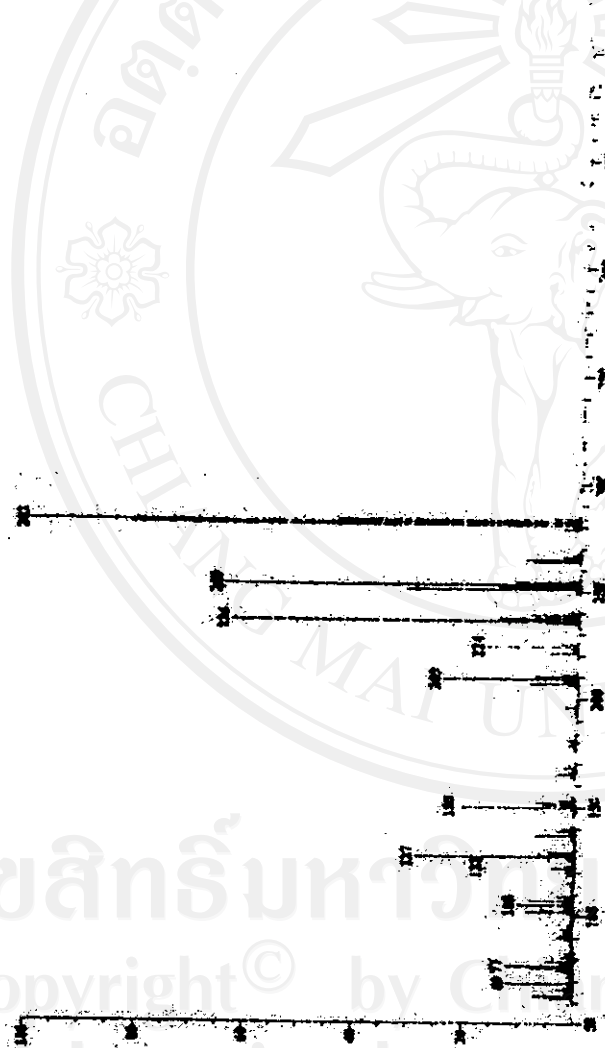


Figure E-5 The mass spectrum of compound KP2-005P and KP2-006-2P

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