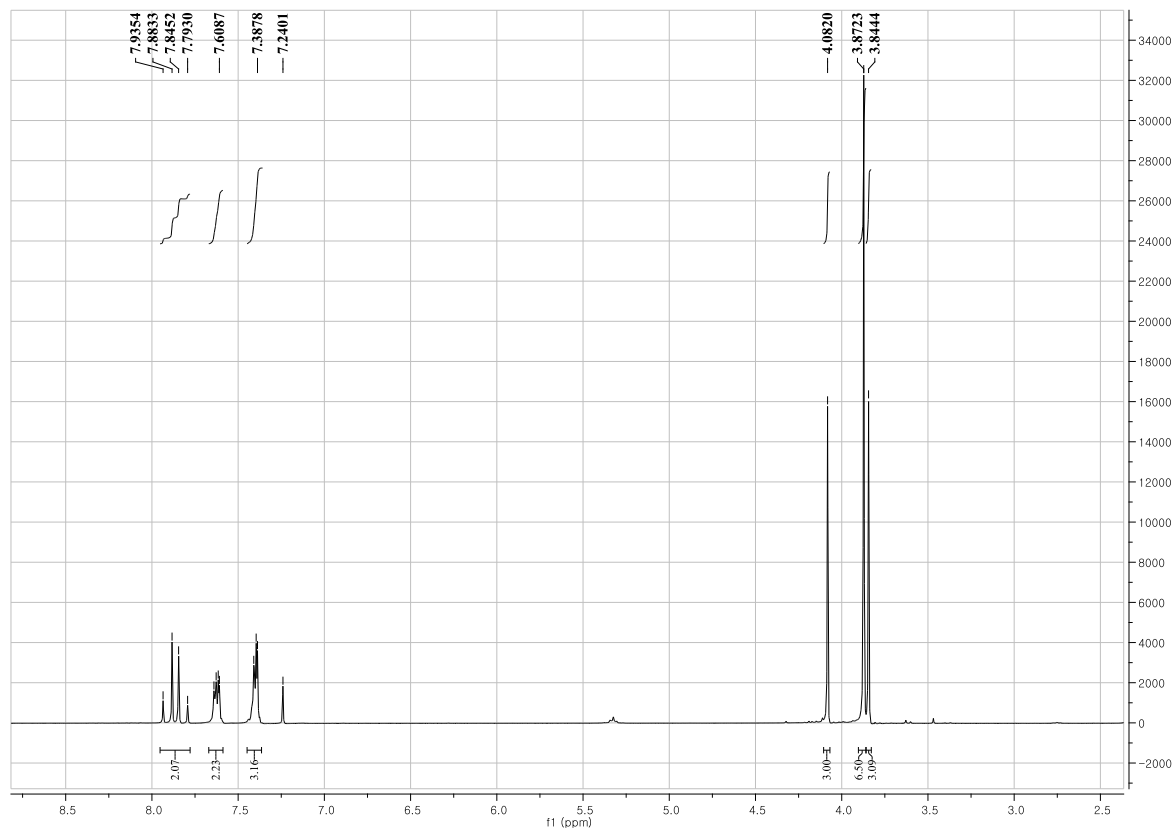

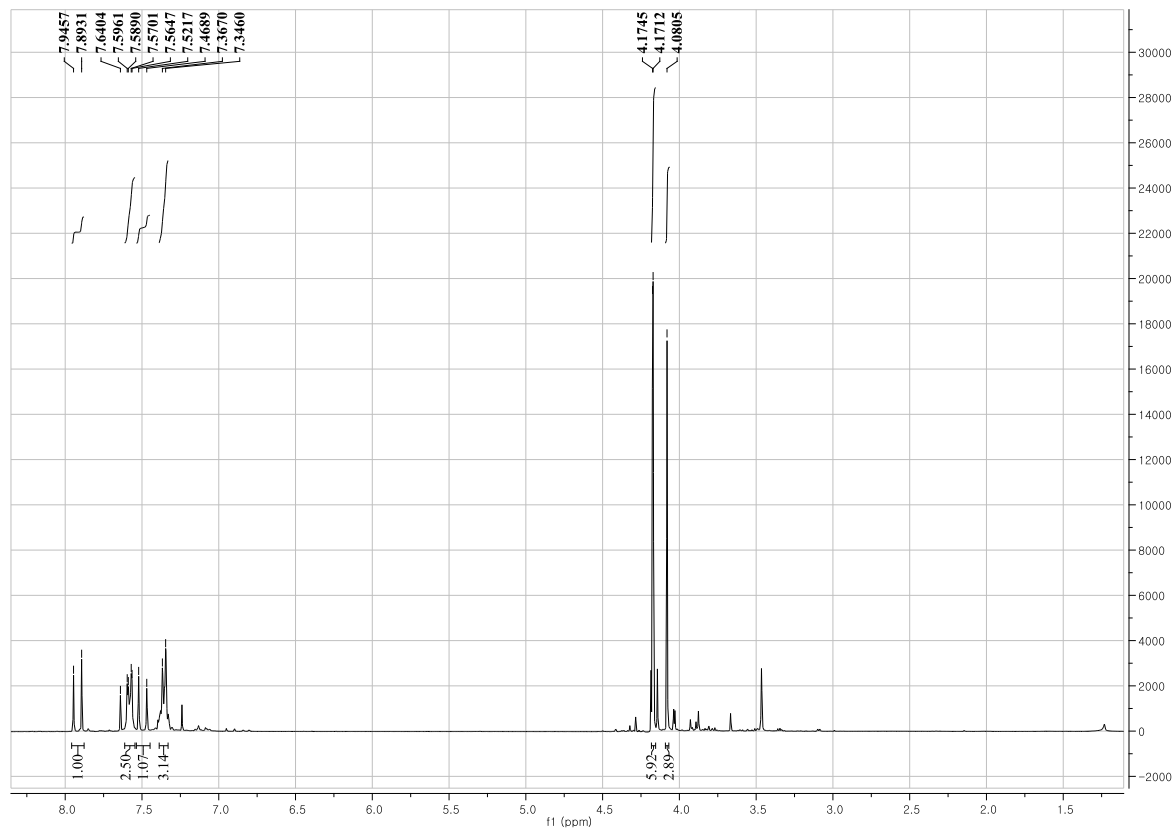



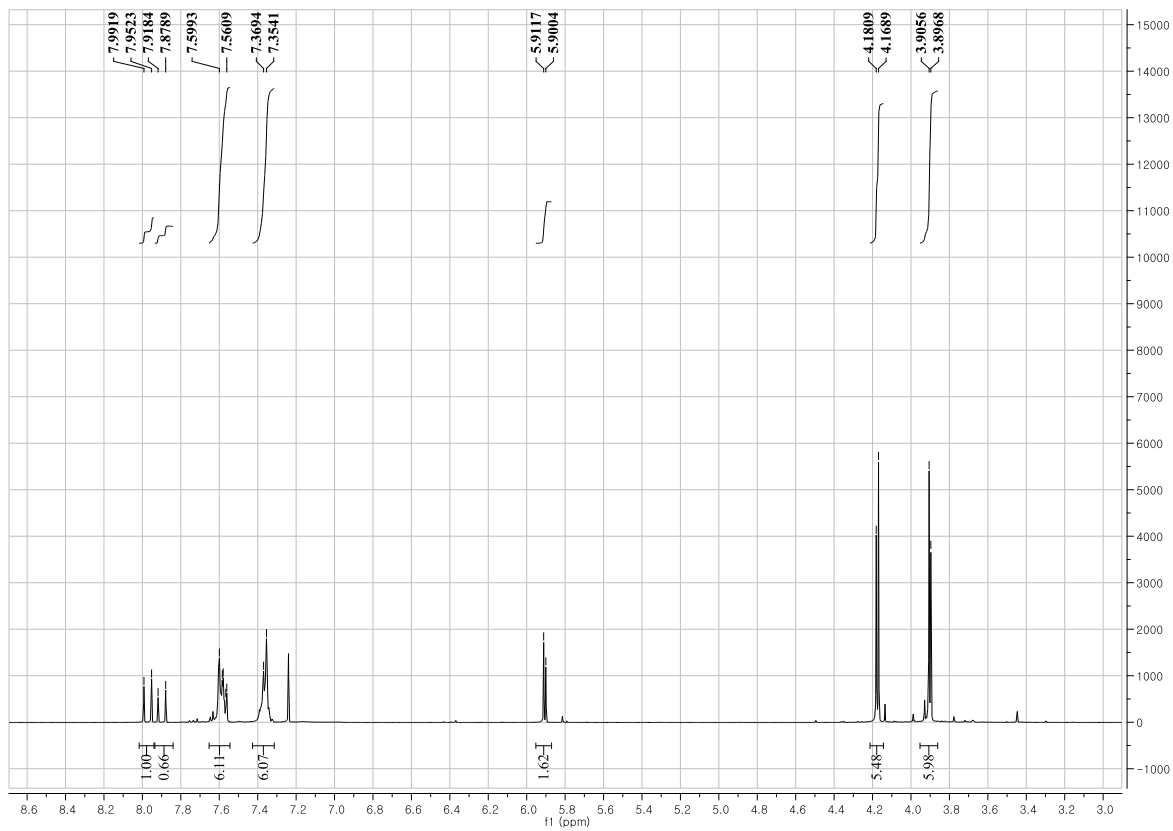
^1H NMR spectrum of LE3B (*Kanakugiol*) by using 400 MHz Bruker. 




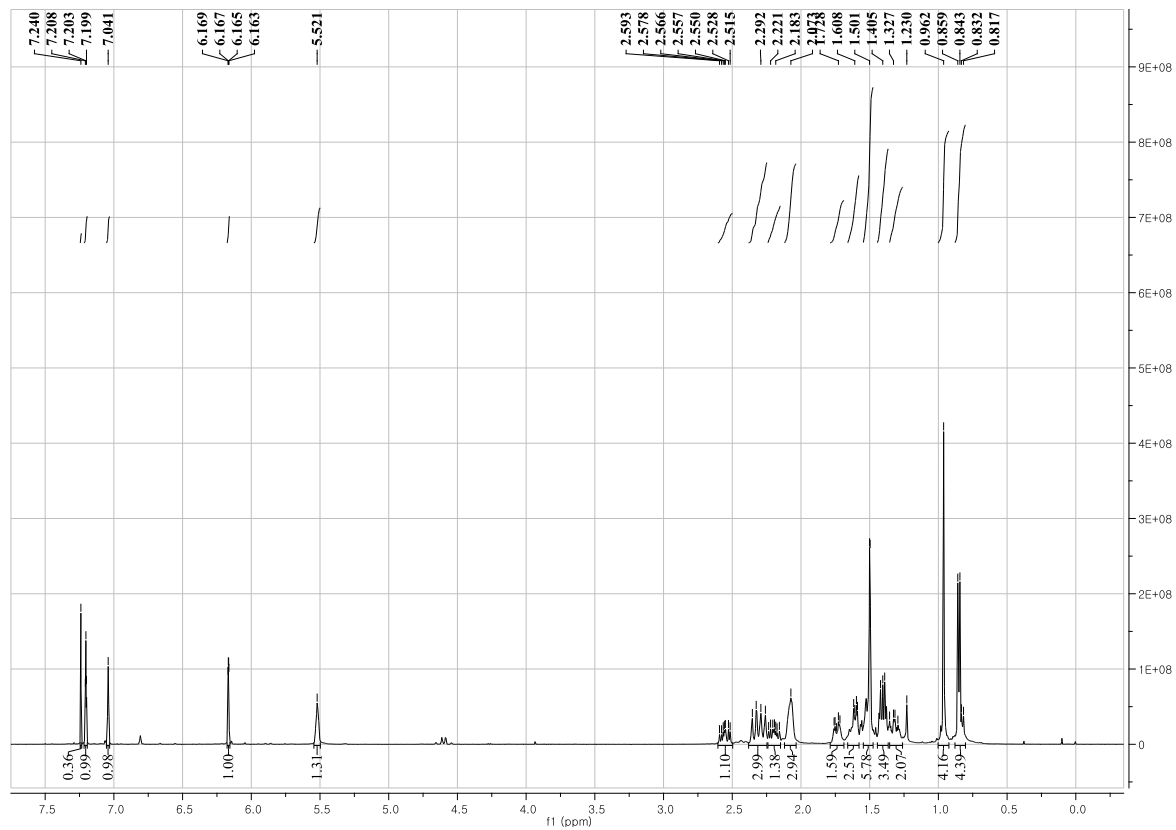
^1H NMR spectrum of LE3E (*Methyl linderone*) by using 400 MHz Bruker. 




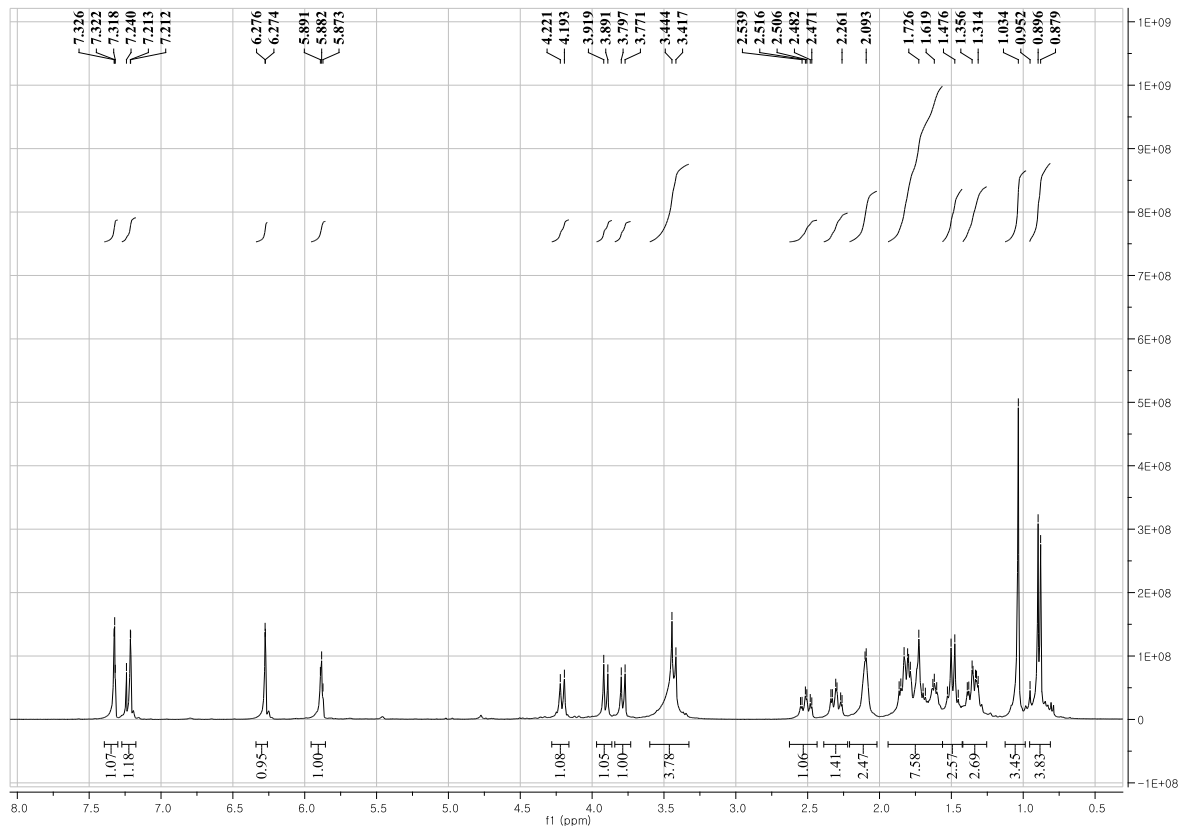
^1H NMR spectrum of LE3G (*Methyl lucidone*) by using 400 MHz Bruker. 




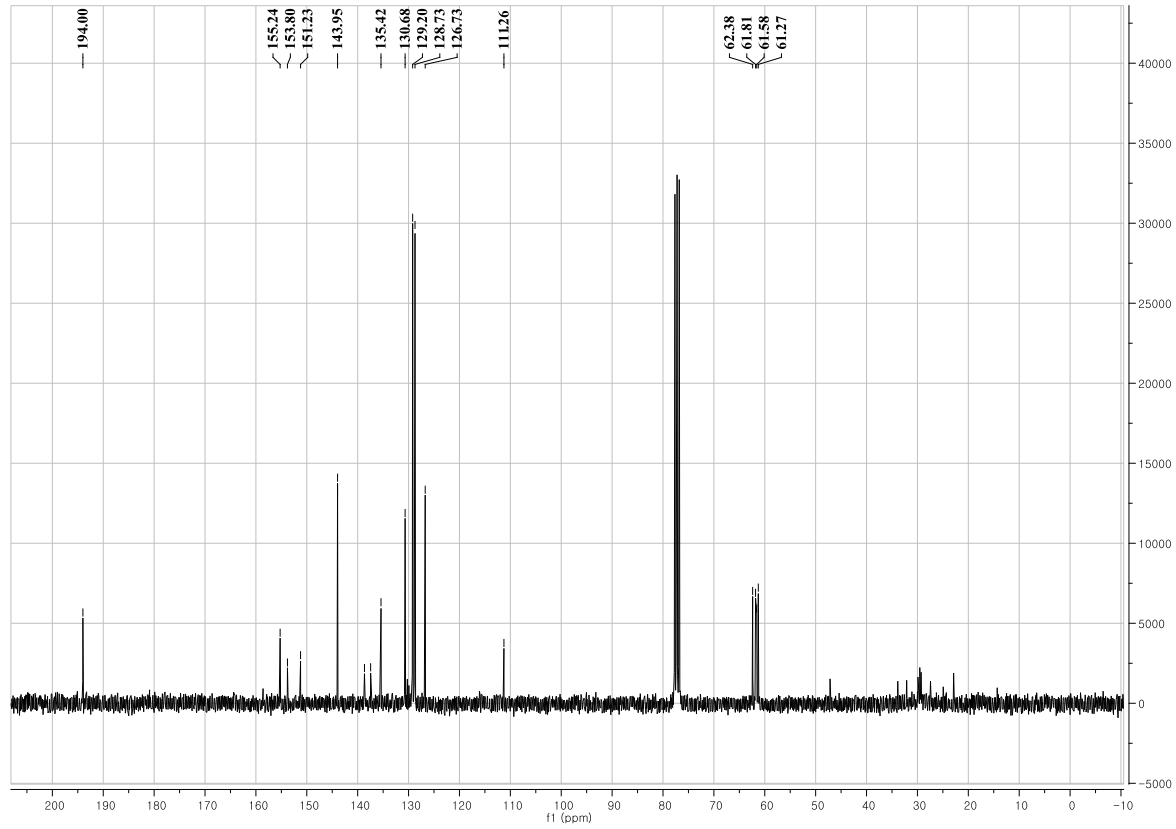
^1H NMR spectrum of SS2A (*Solidago acid A*) by using 400 MHz Bruker. 



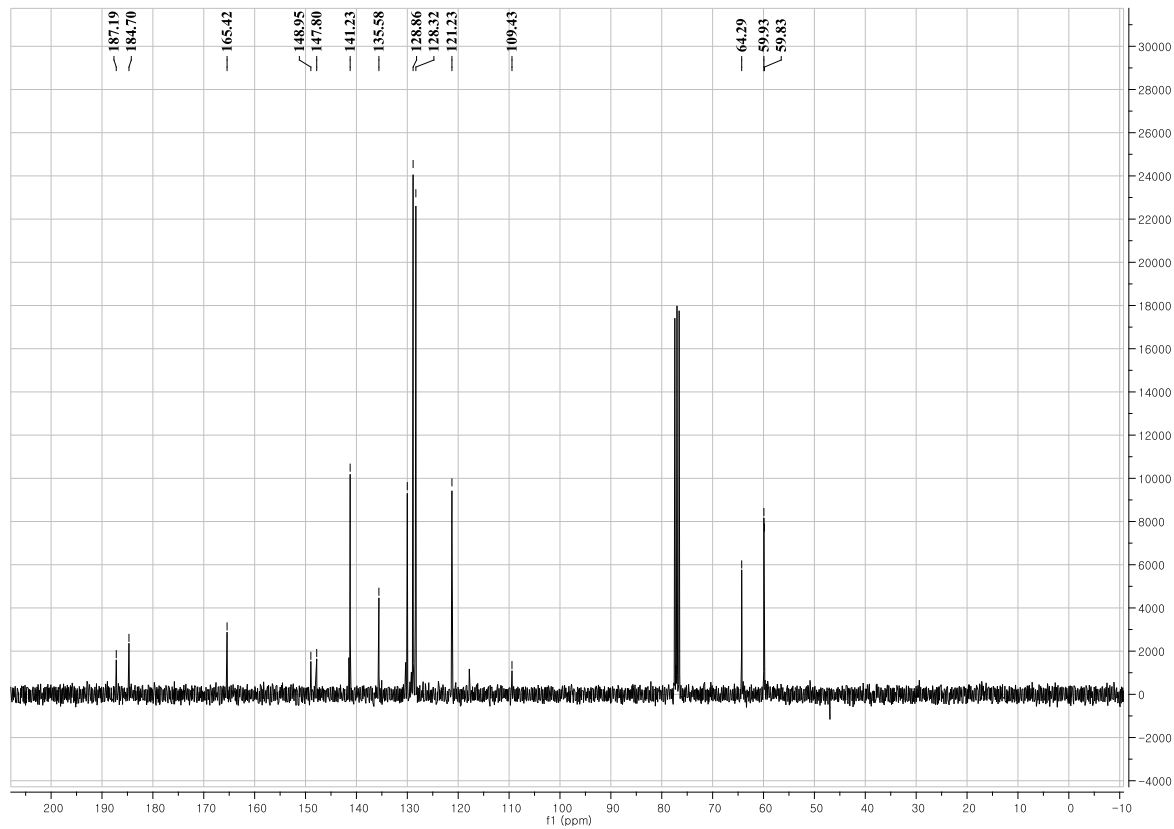
^1H NMR spectrum of SS5A (*Kingidiol*) by using 400 MHz Bruker. 




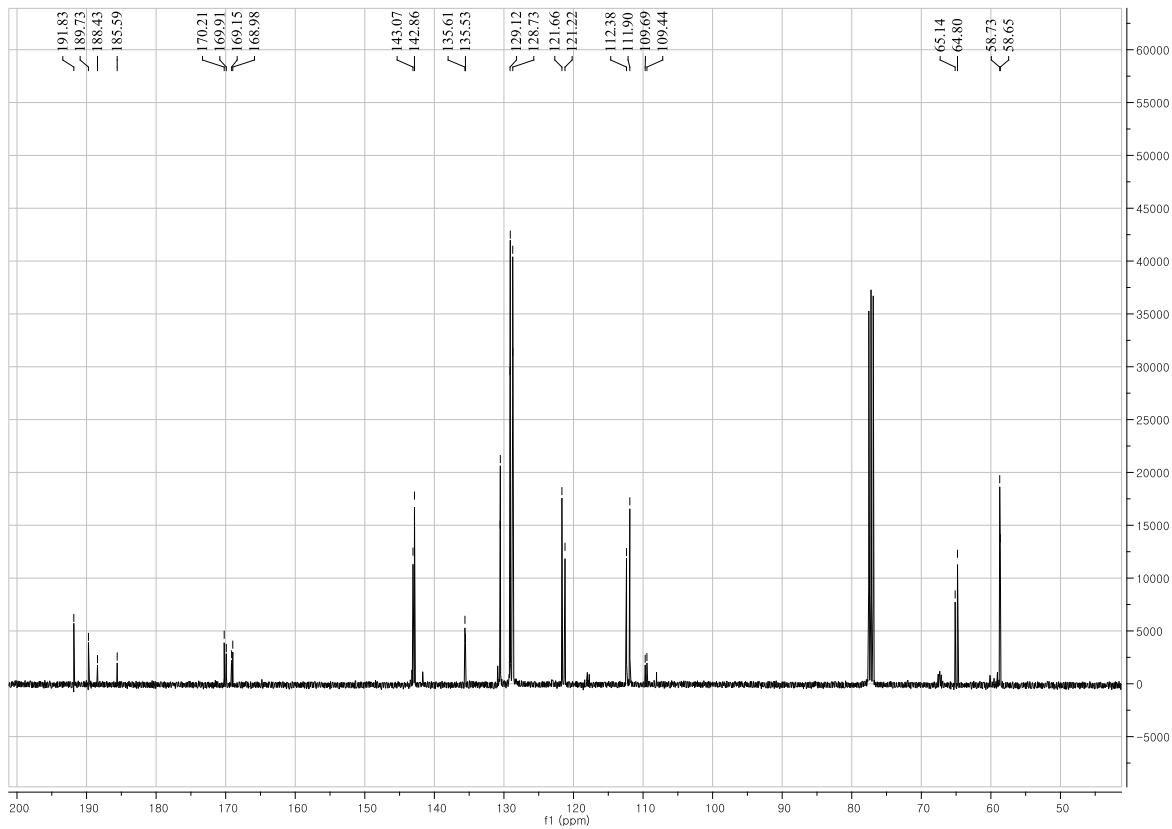
^{13}C NMR spectrum of LE3B (*Kanakugiol*) by using 75 MHz Bruker. 




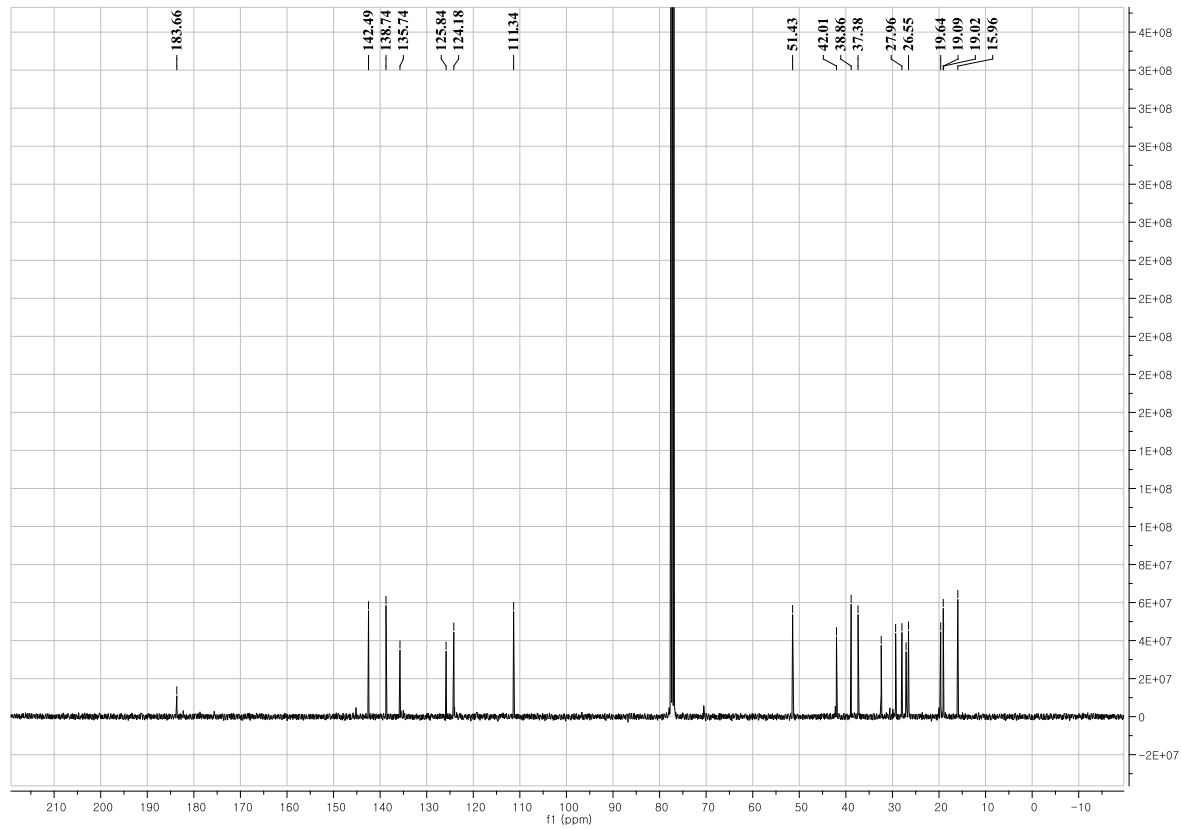
^{13}C NMR spectrum of LE3E (*Methyl linderone*) by using 75 MHz Bruker. ♩




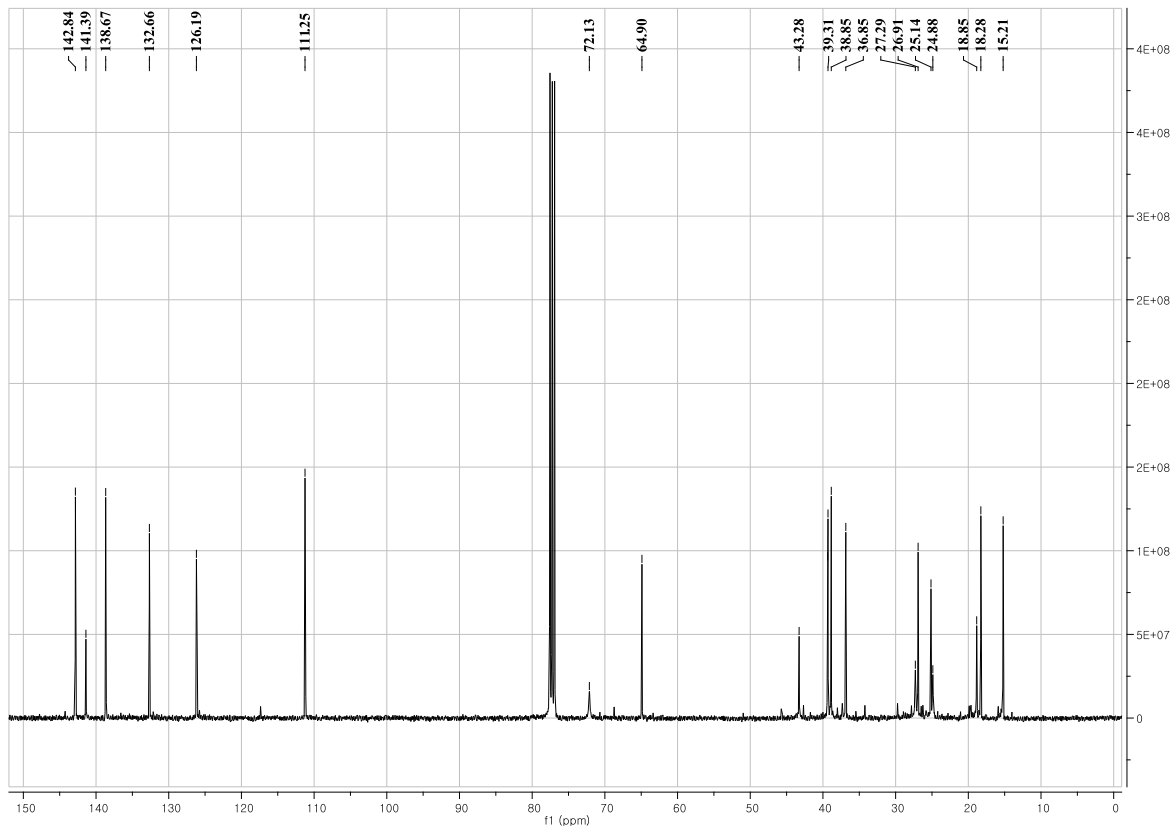
^{13}C NMR spectrum of LE3G (*Methyl lucidone*) by using 75 MHz Bruker. 



^{13}C NMR spectrum of SS2A (*Solidago acid A*) by using 75 MHz Bruker. 



^{13}C NMR spectrum of SS5A (*Kingidiol*) by using 75 MHz Bruker. 



Supplementary Fig. S3K

Elemental composition report, HRESIMS spectrum and ULPC chromatogram of LE3B (*Kanakugiol*) by using Waters Q-TOF Premier

Elemental Composition Report
Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3
Monoisotopic Mass, Even Electron Ions
67 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

Elements Used:

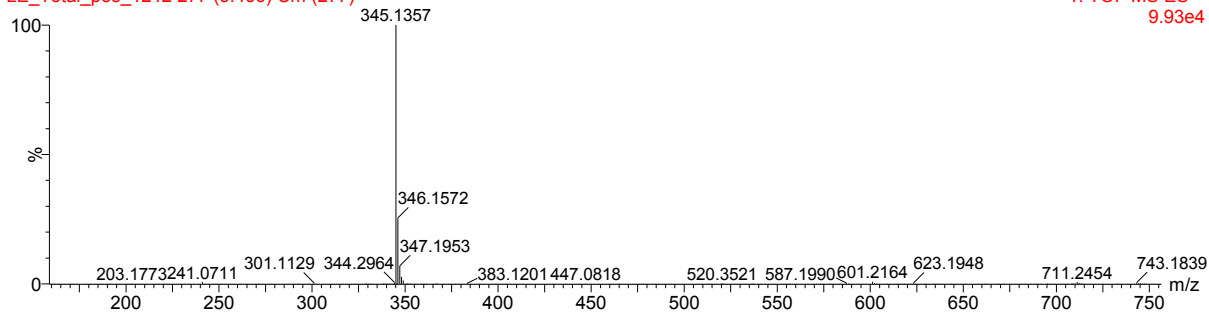
C: 0-500 H: 0-1000 O: 0-200

Minimum:

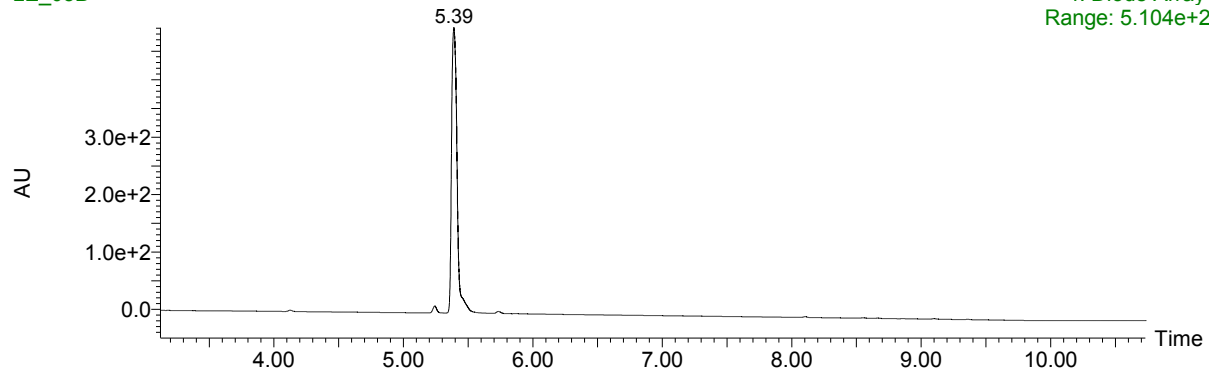
Maximum: 5.0 10.0 -1.5 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
345.1357	345.1338	1.9	5.5	9.5	47.6	n/a	n/a	C19 H21 O6

LE_Total_pos_1212_277 (5.466) Cm (277)



LE_03B



Elemental composition report, HRESIMS spectrum and ULPC chromatogram of LE3E (*Methyl linderone*) by using Waters Q-TOF Premier

Elemental Composition Report

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

53 formula(e) evaluated with 2 results within limits (up to 50 best isotopic matches for each mass)

Elements Used:

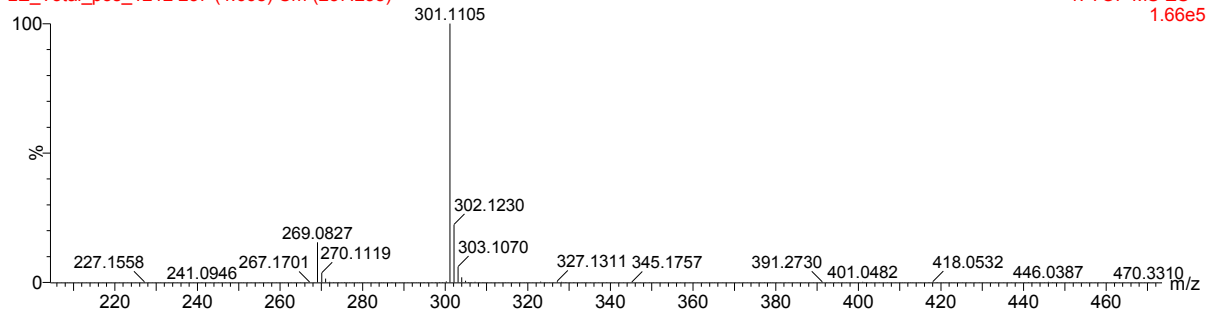
C: 0-500 H: 0-1000 O: 0-200

Minimum:

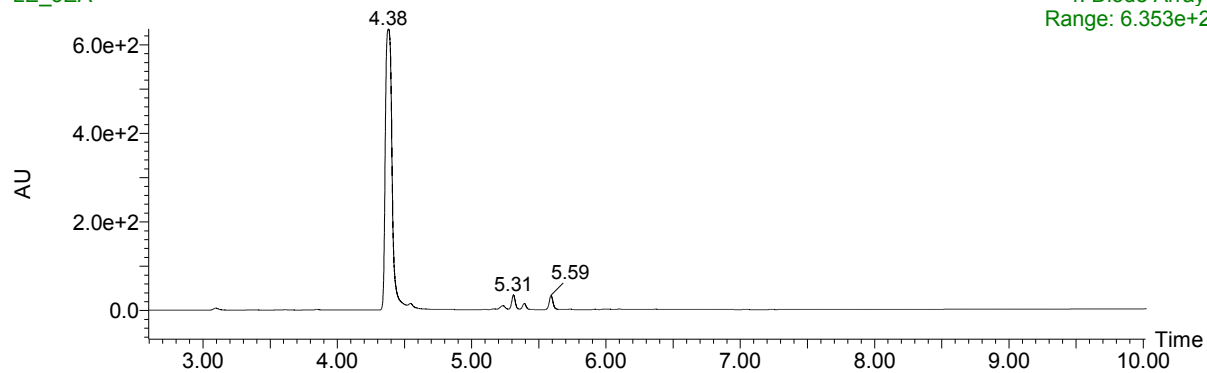
Maximum: 5.0 10.0 -1.5 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
301.1105	301.1076	2.9	9.6	9.5	34.5	0.125	88.24	C17 H17 O5
	301.1135	-3.0	-10.0	0.5	36.5	2.141	11.76	C10 H21 O10

LE_Total_pos_1212 237 (4.668) Cm (237:238)



LE_3EA



Supplementary Fig. S3M

Elemental composition report, HRESIMS spectrum and ULPC chromatogram of LE3G (*Methyl lucidone*) by using Waters Q-TOF Premier

Elemental Composition Report

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

47 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)

Elements Used:

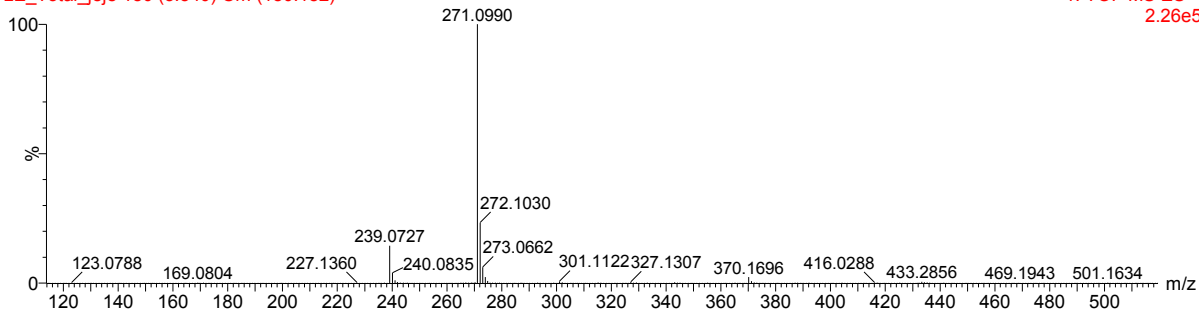
C: 0-500 H: 0-1000 O: 0-200

Minimum:

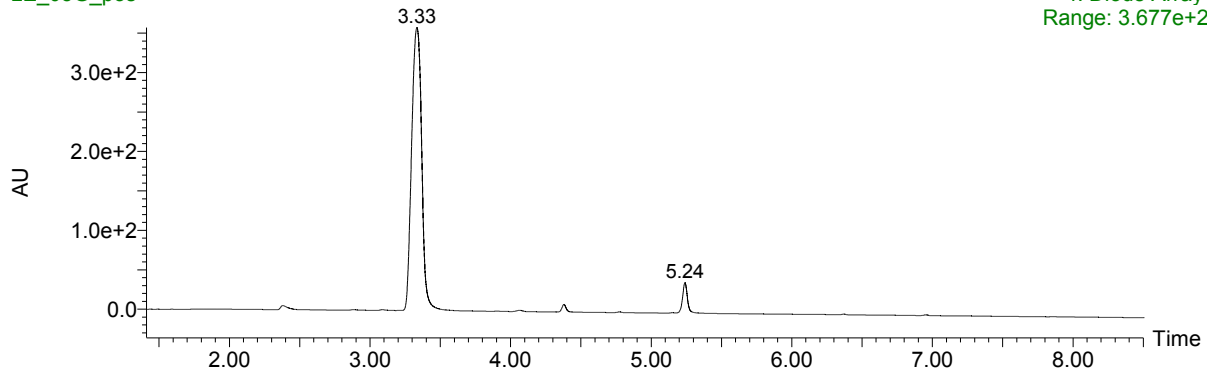
Maximum:

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
271.0990	271.0970	2.0	7.4	9.5	40.1	n/a	n/a	C ₁₆ H ₁₅ O ₄

LE_Total_jeje 180 (3.540) Cm (180:182)



LE_03G_pos



Supplementary Fig. S3N

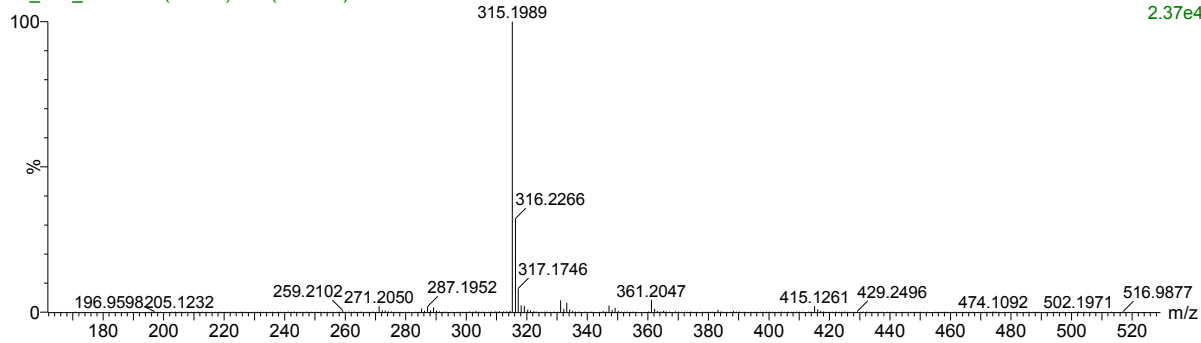
Elemental composition report, HRESIMS spectrum and ULPC chromatogram of SS2A (*Solidago acid A*) by using Waters Q-TOF Premier

Elemental Composition Report
Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3
Monoisotopic Mass, Even Electron Ions
61 formula(e) evaluated with 2 results within limits (up to 50 best isotopic matches for each mass)
Elements Used:
C: 0-500 H: 0-1000 O: 0-200

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
315.1989	315.1960	2.9	9.2	7.5	34.4	0.211	81.01	C ₂₀ H ₂₇ O ₃
	315.2019	-3.0	-9.5	-1.5	35.8	1.661	18.99	C ₁₃ H ₃₁ O ₈

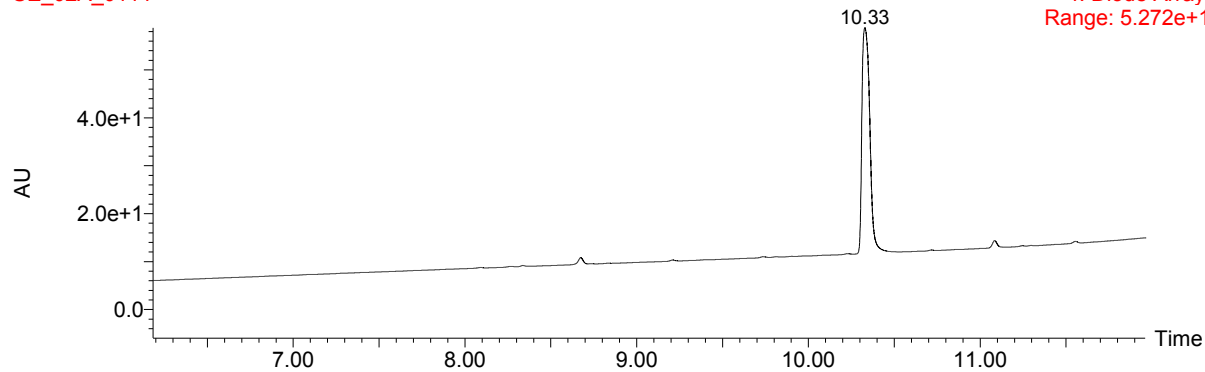
SE_02A_0114 527 (10.375) Cm (527:529)

1: TOF MS ES-
2.37e4




SE_02A_0114

4: Diode Array
Range: 5.272e+1



Supplementary Fig. S30

Elemental composition report, HRESIMS spectrum and ULPC chromatogram of SS5A (*Kingidiol*) by using Waters Q-TOF Premier 

Elemental Composition Report
Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3
Monoisotopic Mass, Even Electron Ions
77 formula(e) evaluated with 1 results within limits (up to 50 best isotopic matches for each mass)
Elements Used:
C: 0-500 H: 0-1000 O: 0-200
Minimum: -1.5
Maximum: 50.0
Mass Calc. Mass mDa PPM DBE i-FIT Norm Conf(%) Formula
363.2184 363.2171 1.3 3.6 6.5 35.7 n/a n/a C21 H31 O5

