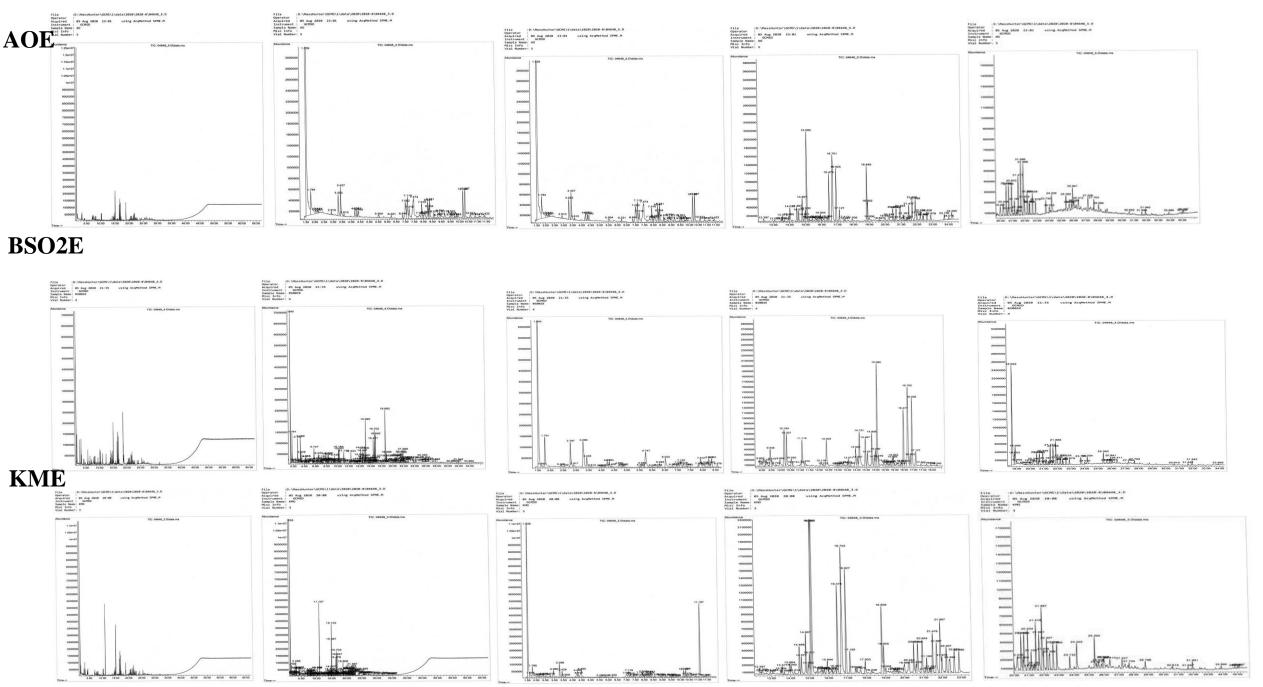
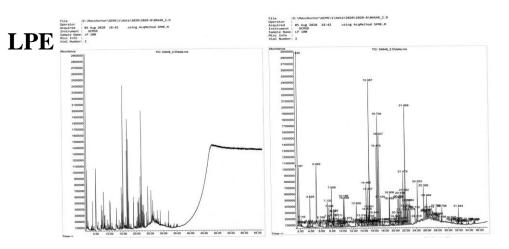
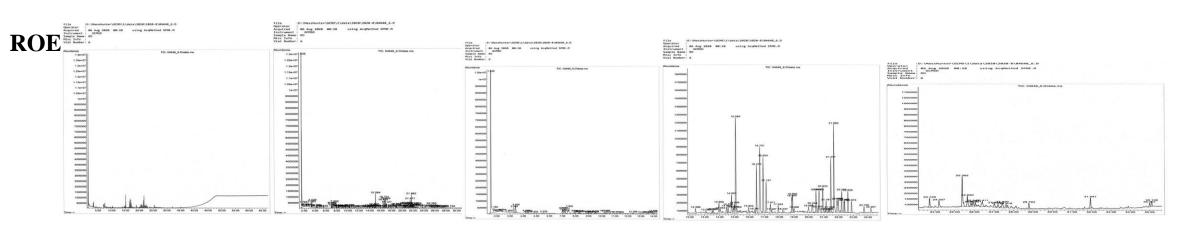
Supplementary Figure 1. GC-MS analysis of AOE, BSO2E, KME, LPE and ROE







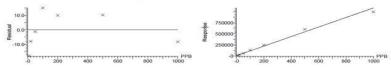
Supplementary Figure 2. Quantification of avenanthramides A, B and C. A) Standard curve. B) AOE, ROE, BSOOE, KME and LPE

A)

Avenanthramide Standard curve

Avenanthramide A

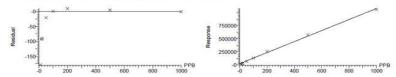
Correlation coefficient: r = 0.994872, r^2 = 0.989771
Calibration curve: 1076.26 * x + 6669.64
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Avenanthramide B

Compound name: A-B
Correlation coefficient: r = 0.998920, r^2 = 0.997840
Calibration curve: 1054.46 * x + 24181.5
Response type: External Std, Area

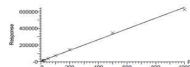
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Avenanthramide C

Compound name: A-C
Correlation coefficient: r = 0.998700, r^2 = 0.997402
Calibration curve: 648.898 * x + 5267.86
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

10.01 × × ×



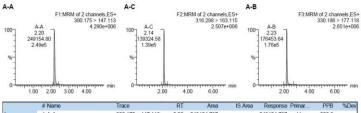
A

Quantify Sample Report MassLynx V4.2 SCN977

Dataset: C:\MassLynx\2020.PRO\2020-08175.qld

ast Altered: Tuesday, October 27, 2020 10:26:57 Korea Standard Time
Printed: Tuesday, October 27, 2020 10:28:49 Korea Standard Time

Name: 08175-AO, Date: 26-Oct-2020, Time: 18:00:45, ID: , Description:



	# Name	Trace	RT	Area	IS Area	Response	Primar	PPB	%Dev
1	1 A-A	300.175 > 147.113	2.20	249154.797		249154.797	bb	225.3	
2	2 A-C	316.298 > 163.115	2.14	139324.578		139324.578	bb	206.6	
3	3 A-B	330.186 > 177.118	2.23	176453.641		176453.641	bb	144.4	

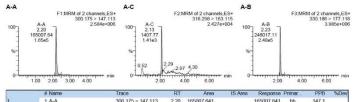
BS002E

Quantify Sample Report MassLynx V4.2 SCN977

taset: C:\MassLynx\2020.PRO\2020-08175.qld

Last Altered: Tuesday, October 27, 2020 10:26:57 Korea Standard Time Printed: Tuesday, October 27, 2020 10:28:49 Korea Standard Time

Name: 08175-BS002E, Date: 26-Oct-2020, Time: 17:37:25, ID: , Description:



# Name	Trace	RT	Area	IS Area	Response	Primar	PPB	%Dev
1 A-A	300.175 > 147.113	2.20	165007.641		165007.641	bb	147.1	
2 A-C	316.298 > 163.115	2.13	1407.768		1407.768	bbl		
3 A-B	330.186 > 177.118	2.23	248017.109		248017.109	bb	212.3	

KME

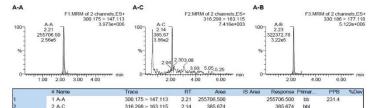
Quantify Sample Report MassLynx V4.2 SCN977

taset: C:\MassLynx\2020.PRO\2020-08175.qld

Last Altered: Tuesday, October 27, 2020 10:26:57 Korea Standard Time Printed: Tuesday, October 27, 2020 10:28:49 Korea Standard Time

Name: 08175-KMO, Date: 26-Oct-2020, Time: 17:52:58, ID: , Description:

330 186 > 177 118



322372.781 bb

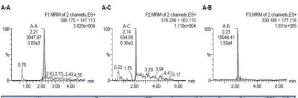
ROE

Quantify Sample Report MassLynx V4.2 SCN977

Dataset: C:\MassLynx\2020.PRO\2020-08175.qld

Last Altered: Tuesday, October 27, 2020 10:26:57 Korea Standard Time
Printed: Tuesday, October 27, 2020 10:28:49 Korea Standard Time

Name: 08175-RO, Date: 26-Oct-2020, Time: 18:08:34, ID: , Description:



	# Name	Trace	RT	Area	IS Area	Response	Primar	PPB	%Dev
1	1 A-A	300.175 > 147.113	2.21	3047.965		3047.965	bbl		
2	2 A-C	316.298 > 163.115	2.14	634.661		634.661	bbl		
3	3 A-B	330.186 > 177.118	2.23	15048.410		15048.410	bbl		

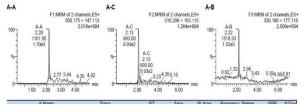
LPE

uantify Sample Report MassLynx V4.2 SCN977

Dataset: C:\MassLynx\2020.PRO\2020-08175.qld

Last Altered: Tuesday, October 27, 2020 10:26:57 Korea Standard Time Printed: Tuesday, October 27, 2020 10:28:49 Korea Standard Time

Name: 08175-LPE, Date: 26-Oct-2020, Time: 17:45:12, ID: , Description:



	# Name	Trace	RT	Area	IS Area	Response	Primar	PPB	%Dev
1	1 A-A	300.175 > 147.113	2.20	1101.854		1101.854	bbl		
2	2 A-C	316.298 > 163.115	2.13	993.000		993.000	bbl		
9	2 4 0	220 400 - 477 440	2.22	4540.225		4540.005	NA.		

