

28th June 2021

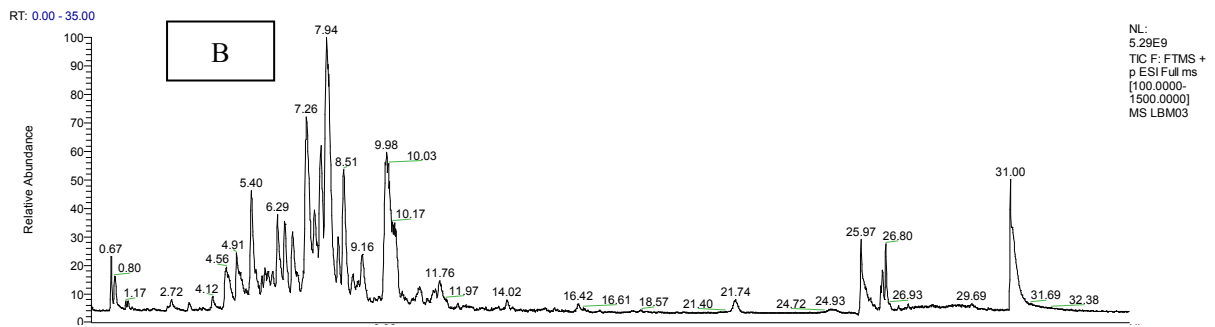
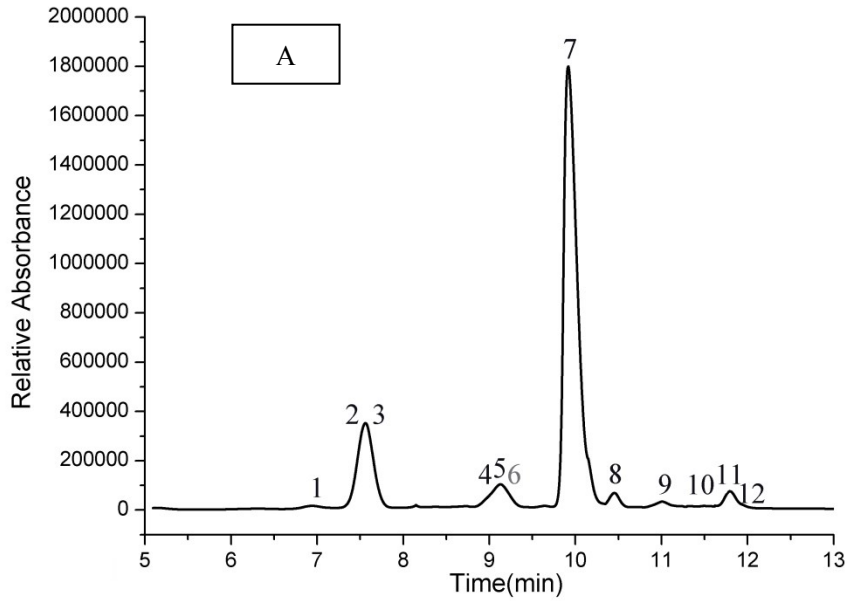
Note added after first publication: This Supplementary Information file replaces that originally published on 1st March 2021

Supporting Information

Table S1. Primer sequences used for real-time quantitative PCR.
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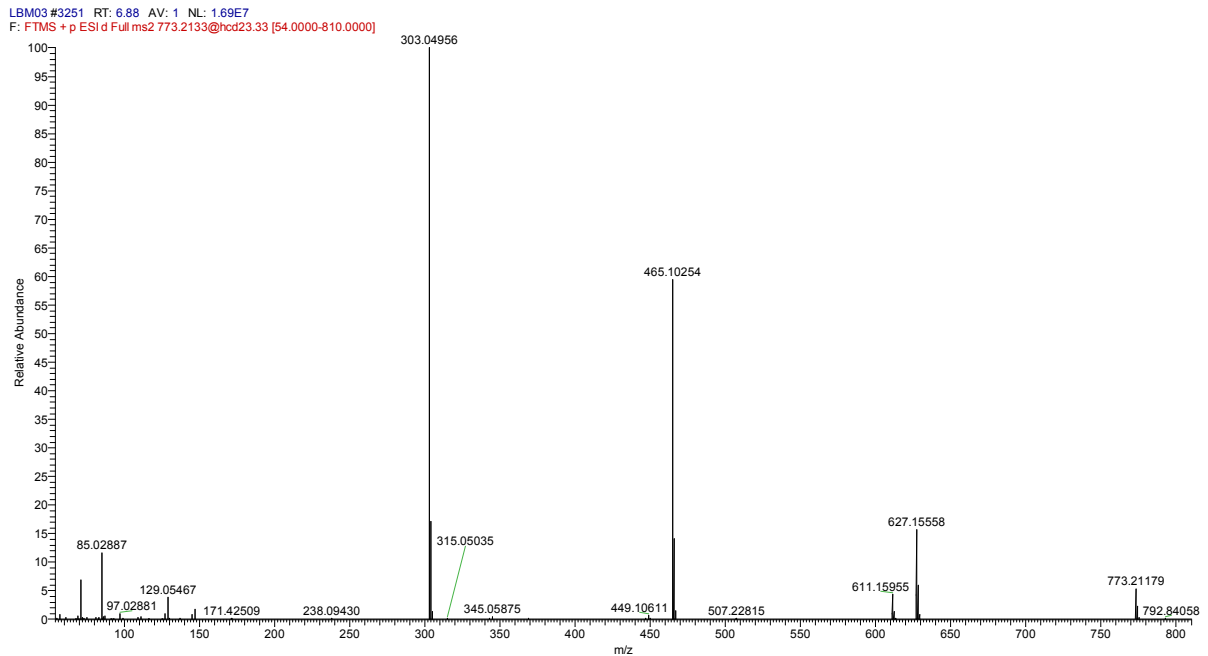
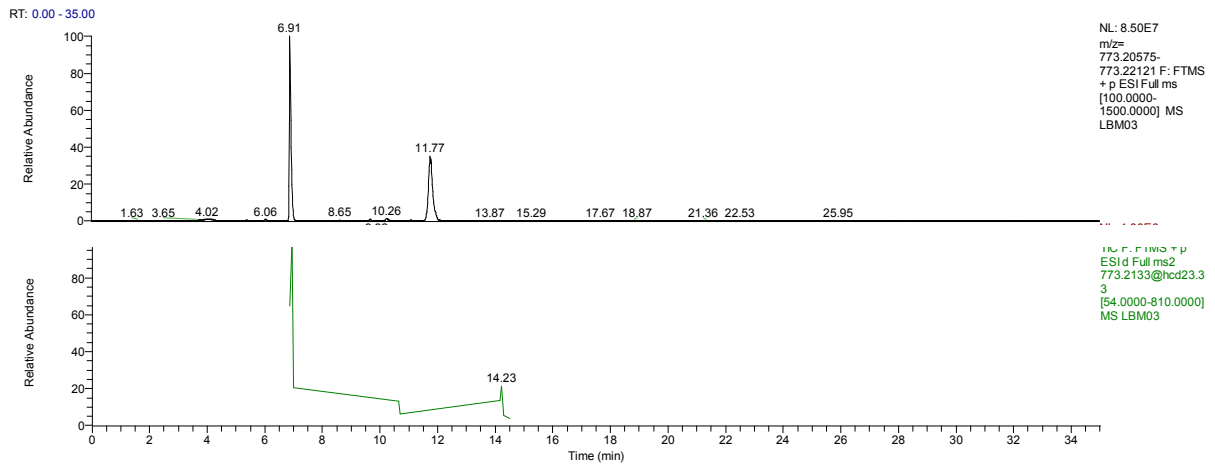
Gene	Forward Primer (5'-3')	Reverse Primer (5'-3')	Amplicon Size	Accession number
IL-6	CTGCAAGAGACTTCCATCCAGTT	GAAGTAGGGAAGGCCGTGG	70	NM_001314054.1
IL-1 β	TCGCTCAGGGTCACAAGAAA	CATCAGAGGCAAGGAGGAAAAC	73	NM_008361.4
TNF- α	CCACCACGCTCTTCTGTCTAC	TGGGCTACAGGCTTGTCACT	151	NM_013693.3
IL-10	GCTCTTACTGACTGGCATGAG	CGCAGCTCTAGGAGCATGTG	105	NM_010548.2
TLR4	GTTGCAGAAAATGCCAGGATG	CAGGGATTCAAGCTTCCTGGT	101	NM_021297.3
NF- κ B	CCCTACGGAACTGGGCAAAT	GCGGAATCGAAATCCCCTCT	153	NM_008689.2
TGF- β 1	CTCCCGTGGCTTCTAGTGC	GCCTTAGTTTGGACAGGATCTG	133	NM_011577.2
GPR5	CCTCATGCACCACATTCCT	AAATCTCAGGCAGGCAGCTT	190	NM_011798.4
MCP-1	GCTCAGCCAGATGCAGTTAA	TCTTGAGCTTGGTGACAAAAC	148	NM_011333.3
Nrf2	AGCCAGCTGACCTCCTTAGA	AGTGACTGACTGATGGCAGC	131	NM_010902.4
COX-2	AGCCCATTGAACCTGGACTG	ACCCAATCAGCGTTTCTCGT	125	NM_011198.4
NOS2	GGCAGCCTGTGAGACCTTTG	GCATTGGAAGTGAAGCGTTTC	72	NM_001313922.1
NQO-1	GGTATTACGATCCTCCCTCAACATC	GAGTACCTCCCATCCTCTCTTCTTC	146	NM_008706.5
HO-1	CCACCAAGTTCAAACAGCTCTAT	CTGACGAAGTGACGCCATCT	191	NM_010442.2
G-6-Pase	TCCTCCTCAGCCTATGTCTGCATTC	GAGAGAAGAATCCTGGGTCTCCTTG	168	NM_008061.4
PEPCK	TCTTTGGTGGCCGTAGACCTG	GCCAGGTATTTGCCGAAGTTGTAG	190	NM_011044.3
PYY	CTTCACAGACGACAGCGACA	GGGAAATGAACACACACAGCC	197	NM_001346771.1
GLP-1	AGGGACCTTACCAGTGATGT	AATGGCGACTTCTTCTGGGAA	115	NM_008100.4
GAPDH	GGTTGTCTCCTGCGACTTCA	TGGTCCAGGGTTTCTTACTCC	183	NM_001289726.1

Fig. S1 High-performance liquid chromatograms of the extract of anthocyanins (A), total ion chromatogram (B), and mass spectra of 12 anthocyanins (C). Reproduced with permission from ref. 1. Copyright 2021 John Wiley and Sons.

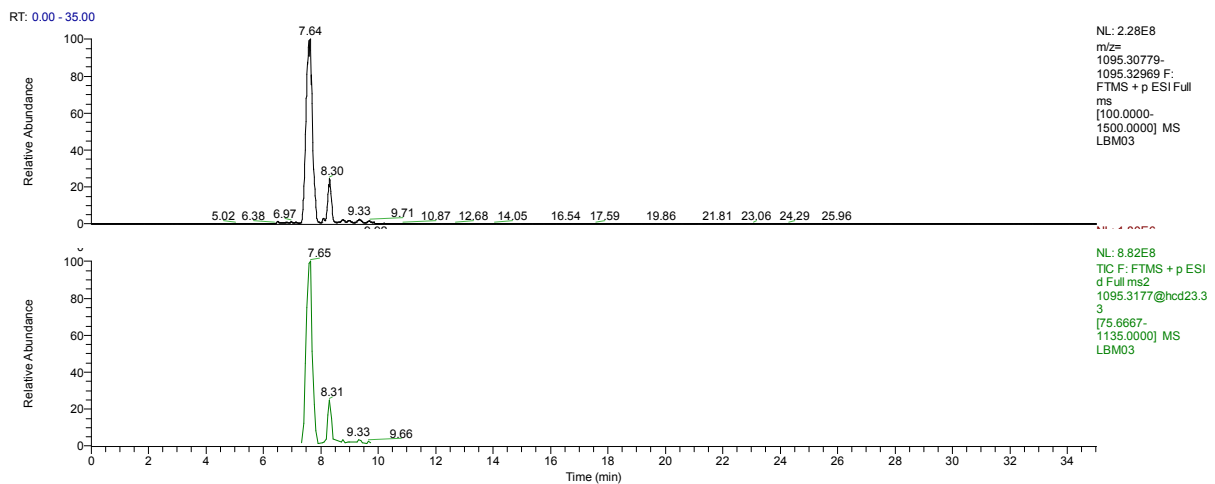


C

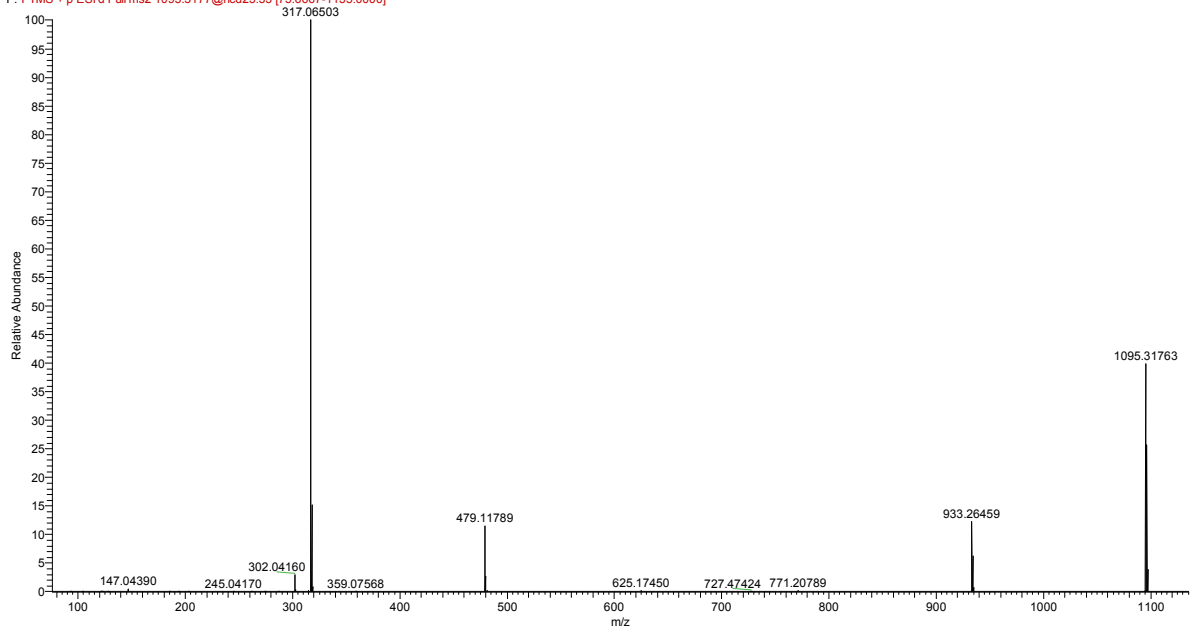
1. Delphinidin-3-O-[6''-O-(rhamnosyl) glucoside]-5-O-glucoside



2. Petunidin-3-O-rutinoside(glucosyl-p-coumaroyl)-5-O-glucoside

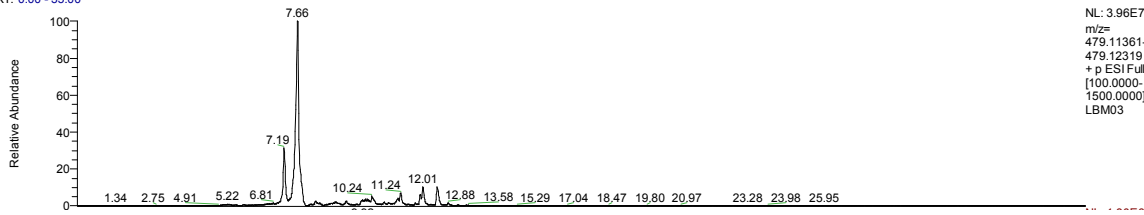


LBM03 #3596 RT: 7.59 AV: 1 NL: 3.58E8
F: FTMS + p ESI d Full ms2 1095.3177@hcd23.33 [75.6667-1135.0000]

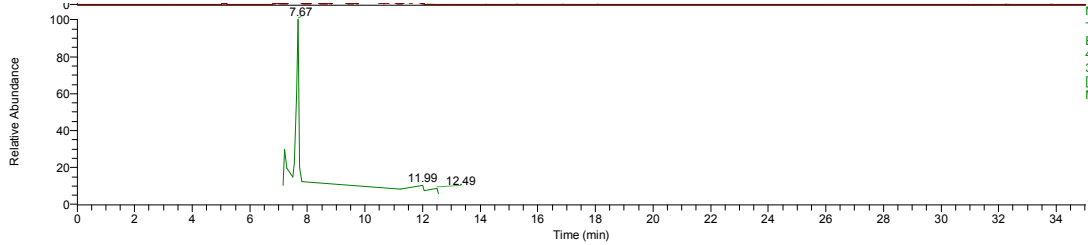


3. Petunidin-3-O-glucoside

RT: 0.00 - 35.00

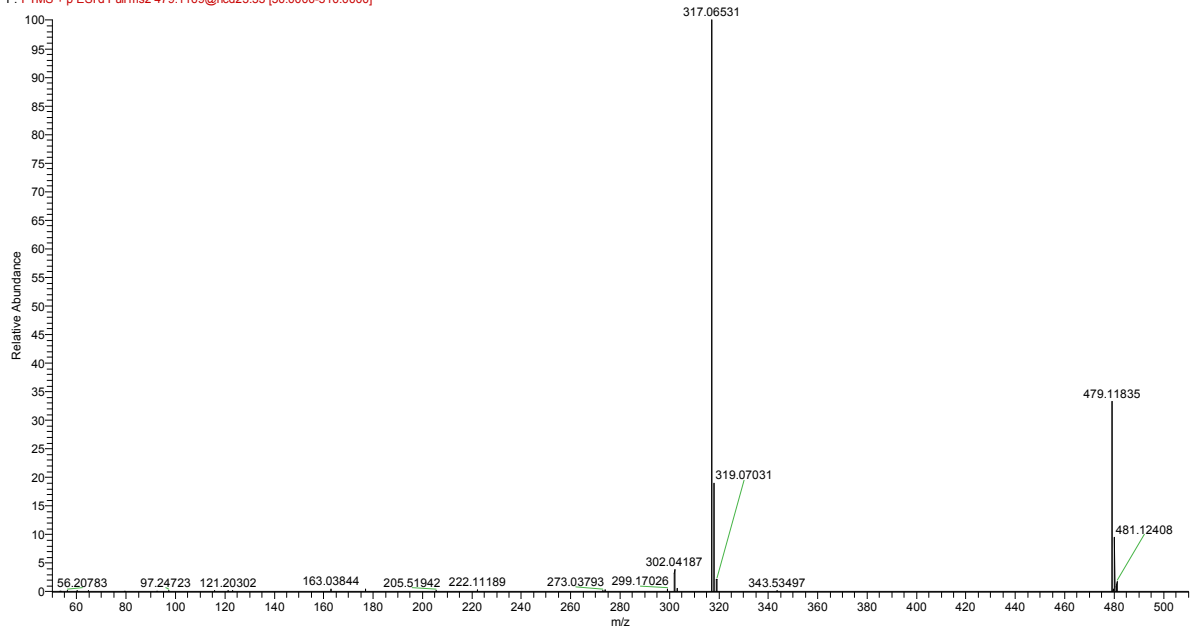


NL: 3.96E7
m/z=
479.11361-
479.12319 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



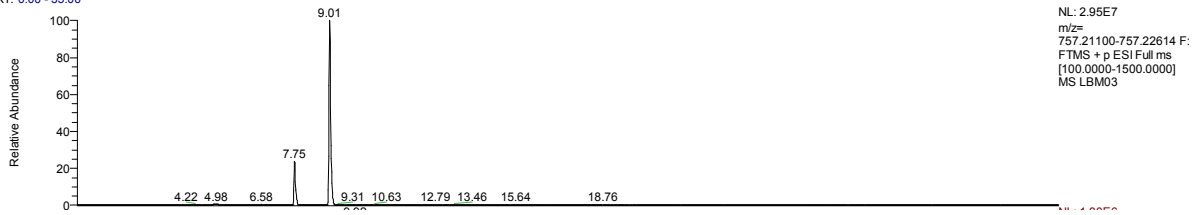
NL: 3.24E7
TIC F: FTMS + p
ESI d Full ms2
479.1169@hcd23.3
3
[50.0000-510.0000]
MS LBM03

LBM03 #3639 RT: 7.67 AV: 1 NL: 1.73E7
F: FTMS + p ESI d Full ms2 479.1169@hcd23.33 [50.0000-510.0000]

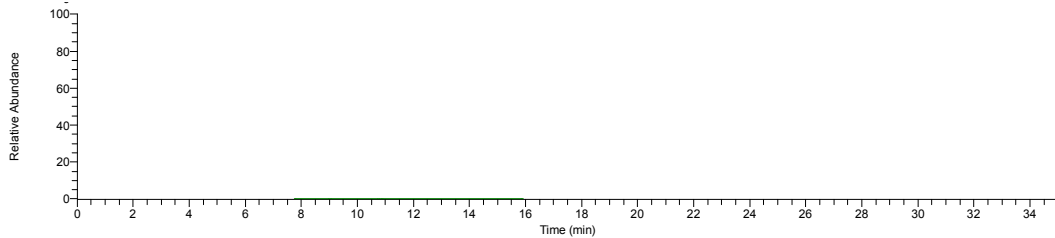


4. Delphinidin3-O-[6''-O-(rhamnosyl)glucoside]-7-O-rhamnoside

RT: 0.00 - 35.00

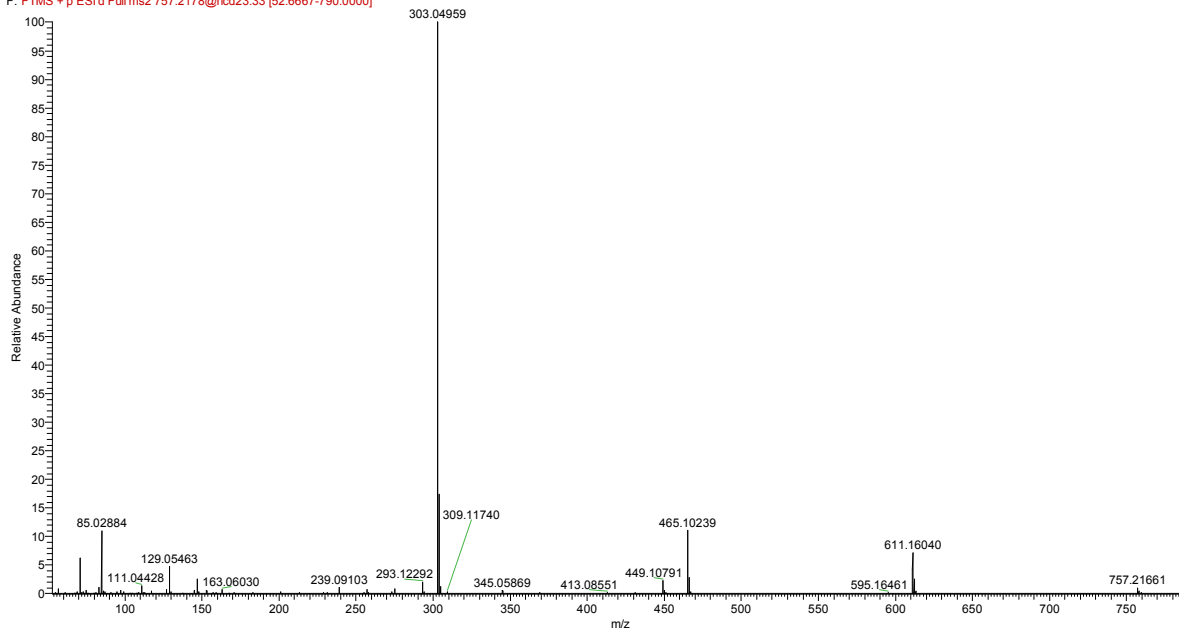


NL: 2.95E7
m/z=
757.21100-757.22614 F:
FTMS + p ESI d Full ms
[100.0000-1500.0000]
MS LBM03



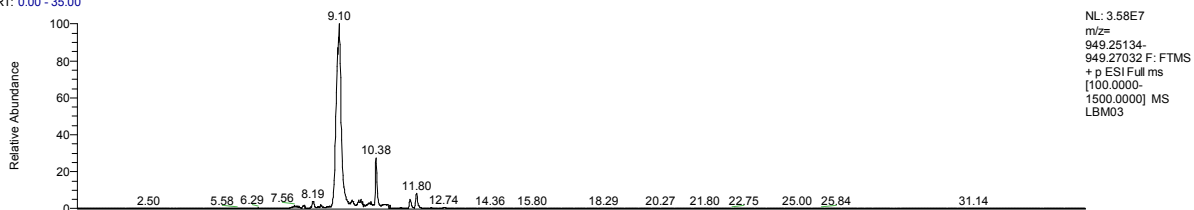
NL: 0
m/z=
328.73809-328.74466 F:
FTMS + p ESI d Full ms2
757.2178@hcd23.33
[52.6667-790.0000] MS
LBM03

LBM03 #4272 RT: 8.99 AV: 1 NL: 9.83E6
F: FTMS + p ESI d Full ms2 757.2178@hcd23.33 [52.6667-790.0000]

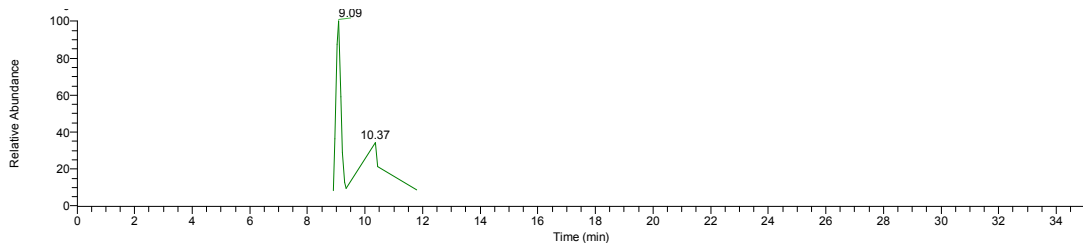


5. Petunidin-3-O-rutinoside(caffeoyl)-5-O-glucoside

RT: 0.00 - 35.00



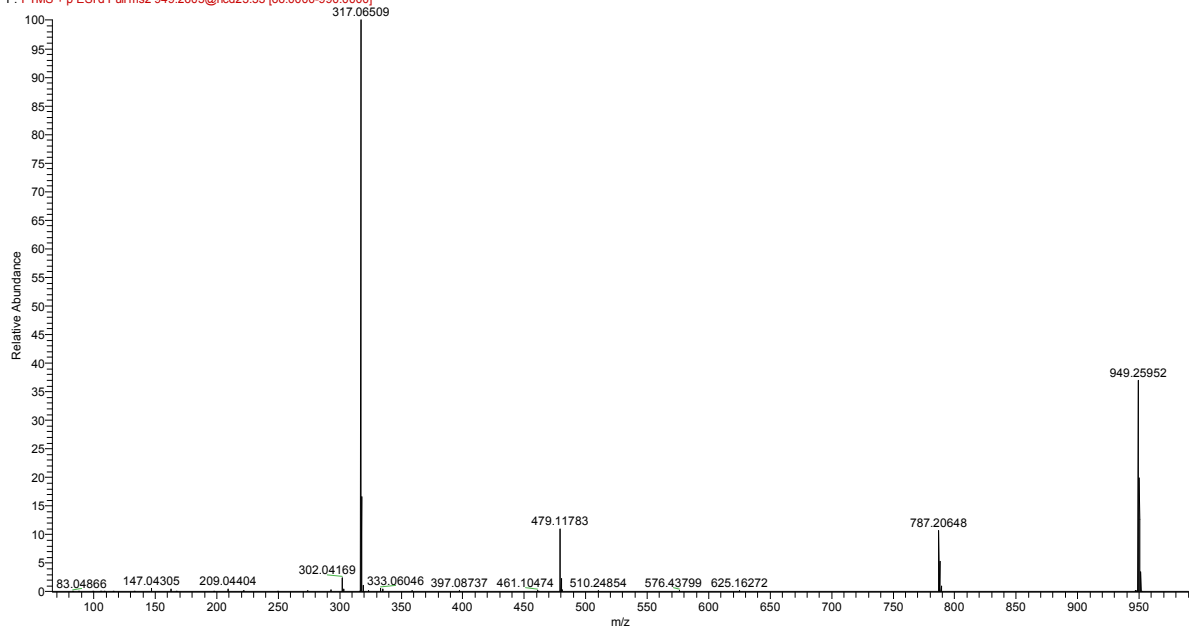
NL: 3.58E7
m/z=
949.25134-
949.27032 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



NL: 9.11E7
TIC F: FTMS + p
ESI d Full ms2
949.2605@hcd23.3
3
[66.0000-990.0000]
MS LBM03

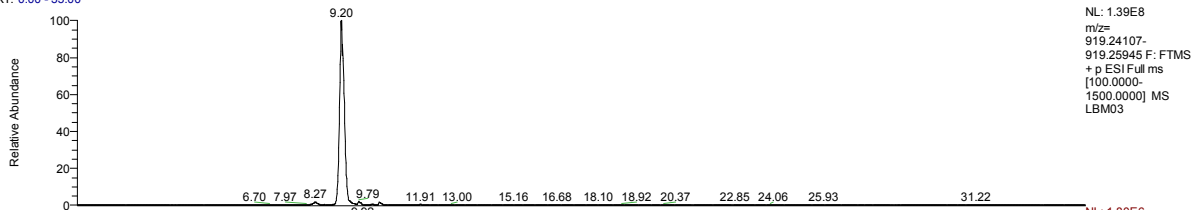
LBM03 #4292 RT: 9.03 AV: 1 NL: 3.39E7

F: FTMS + p ESI d Full ms2 949.2605@hcd23.33 [66.0000-990.0000]

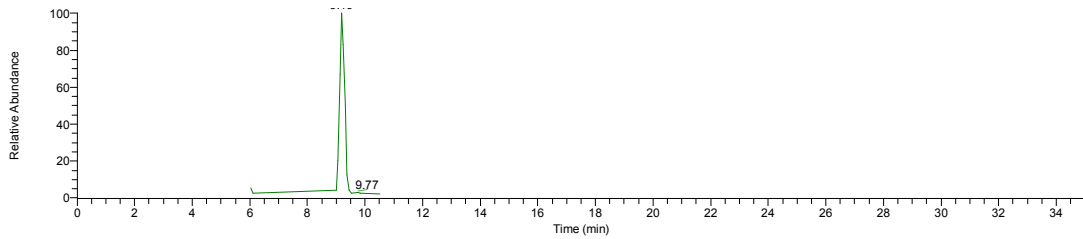


6. Delphinidin-3-O-rutinoside (coumaroyl)-5-O-glucoside

RT: 0.00 - 35.00



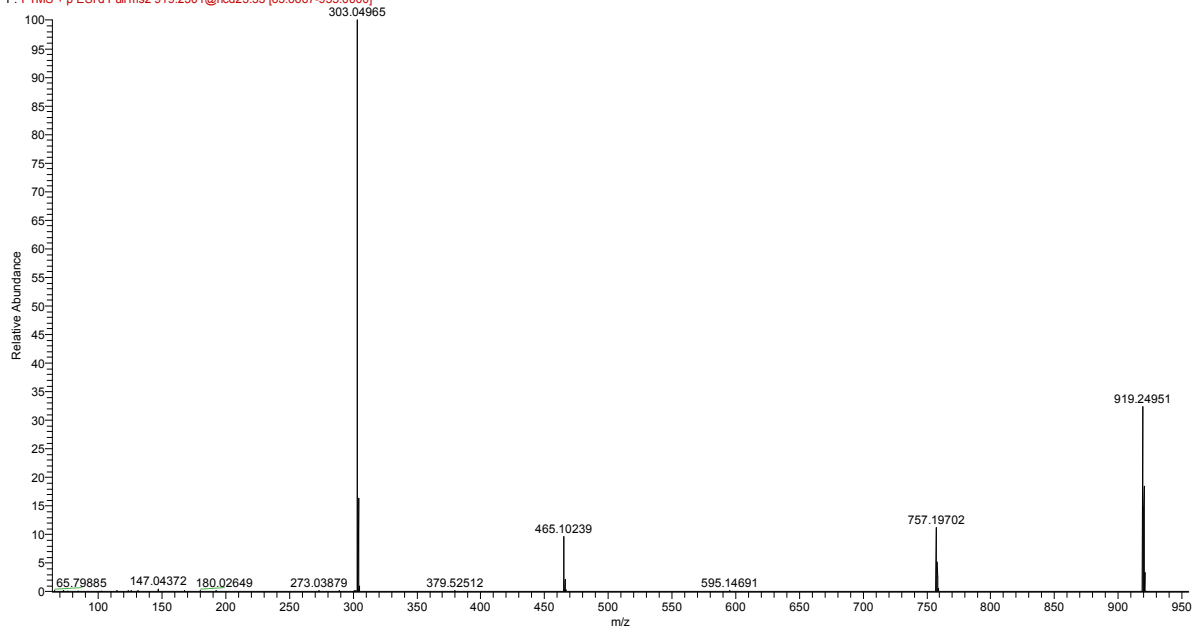
NL: 1.39E8
m/z=
919.24107
919.25945 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



TIC F: FTMS + p
ESI d Full ms2
919.2501@hcd23.3
3
[63.6667-955.0000]
MS LBM03

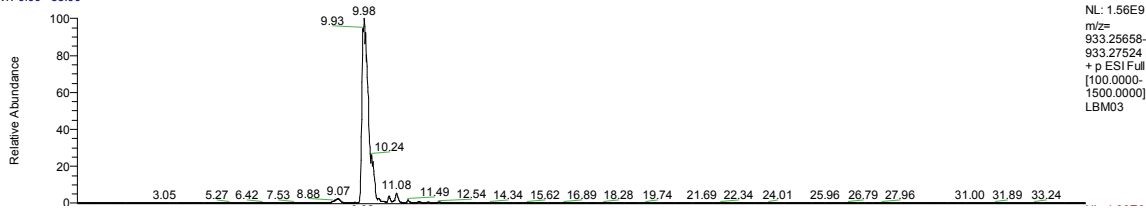
LBM03 #4370 RT: 9.19 AV: 1 NL: 1.38E8

F: FTMS + p ESI d Full ms2 919.2501@hcd23.33 [63.6667-955.0000]

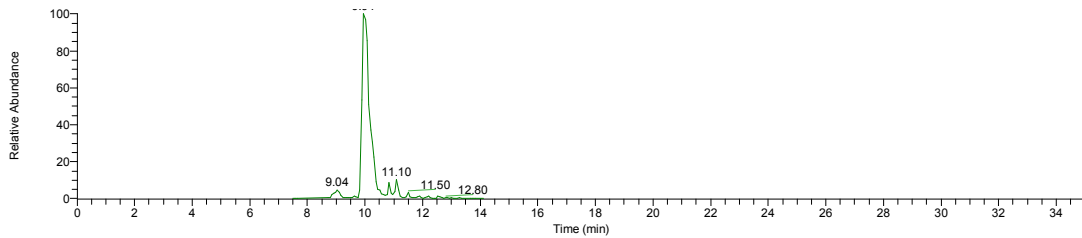


7. Petunidin-3-O-[6-O-(4-O-trans-p-coumaroyl- α -L-rhamnopyranosyl)- β -D-glucopyranoside]-5-O-[β -D-glucopyranoside]

RT: 0.00 - 35.00



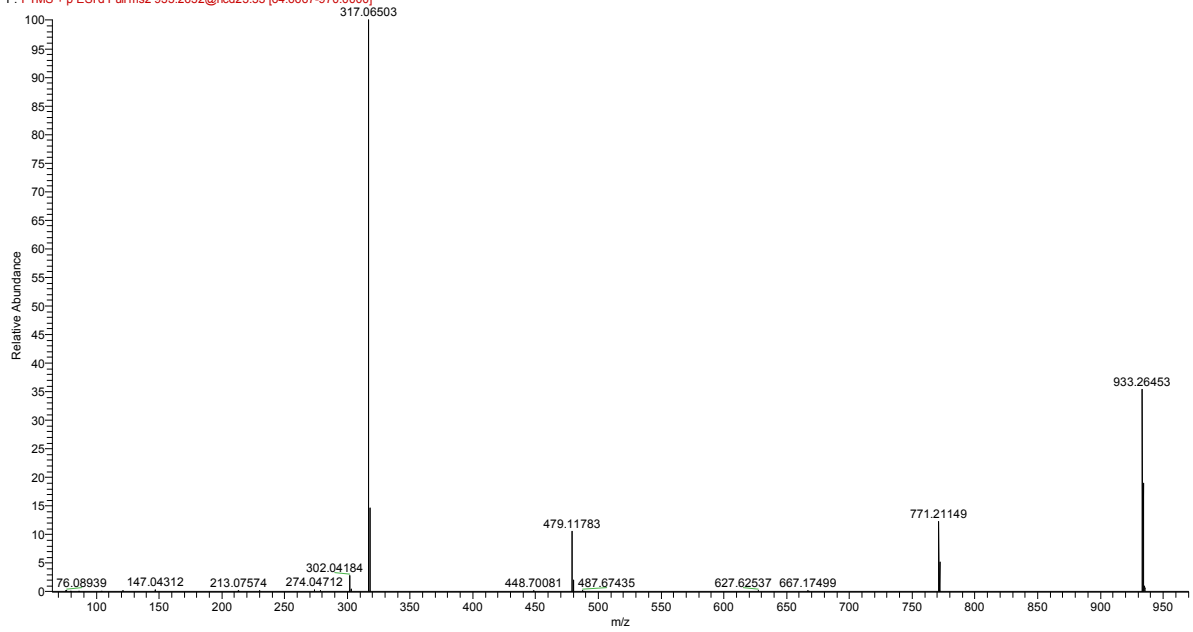
NL: 1.56E9
m/z:
933.25658-
933.27524 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



TIC F: FTMS + p
ESI d Full ms2
933.2652@hcd23.3
3
[64.6667-970.0000]
MS LBM03

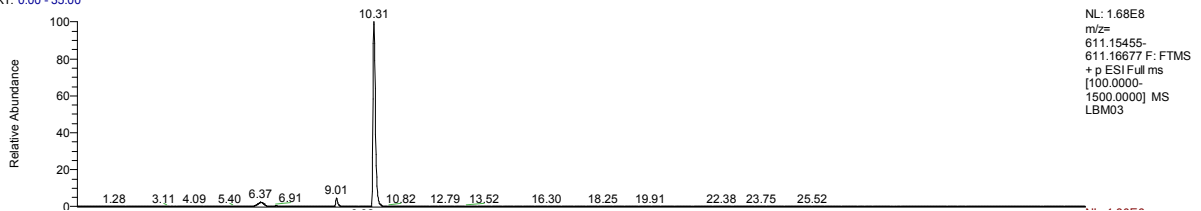
LBM03 #4718 RT: 9.94 AV: 1 NL: 9.58E8

F: FTMS + p ESI d Full ms2 933.2652@hcd23.33 [64.6667-970.0000]

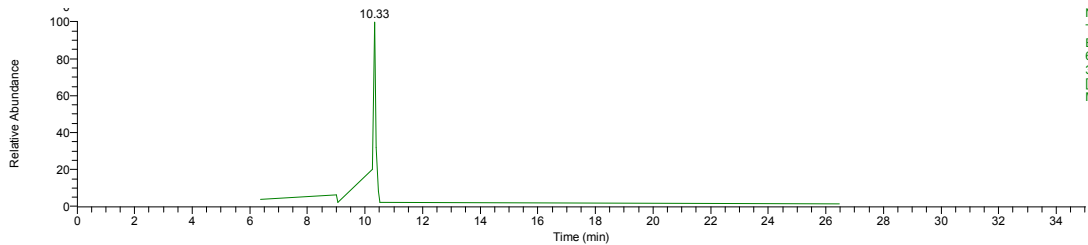


8. Delphinidin-3-O-rutinoside

RT: 0.00 - 35.00

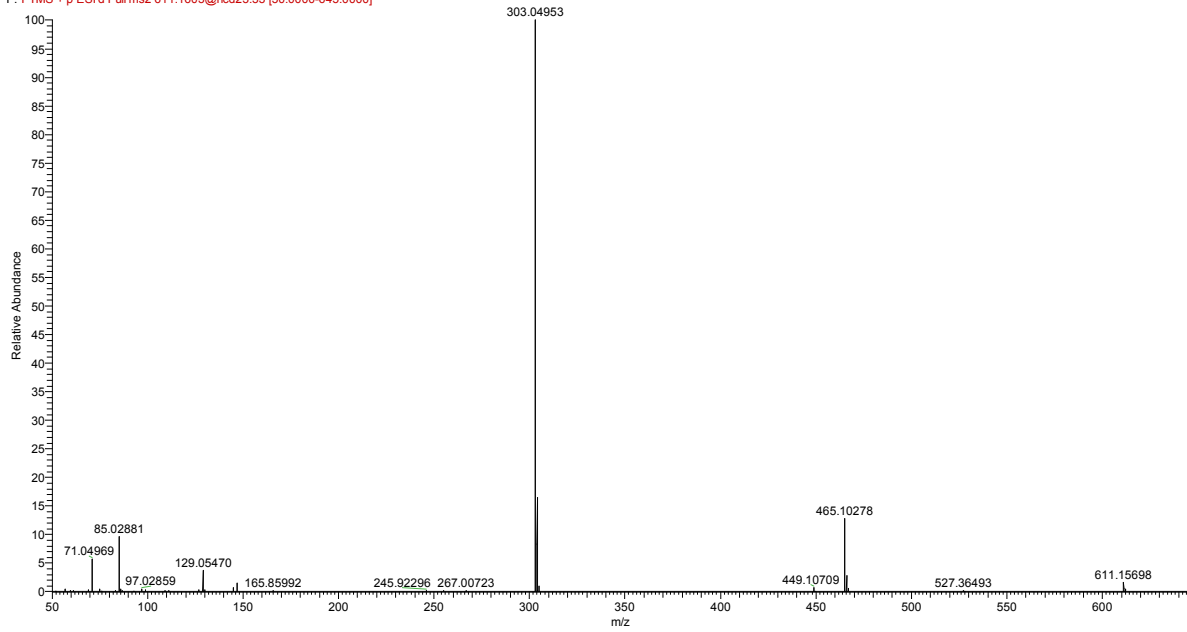


NL: 1.68E8
m/z=
611.15455-
611.16677 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



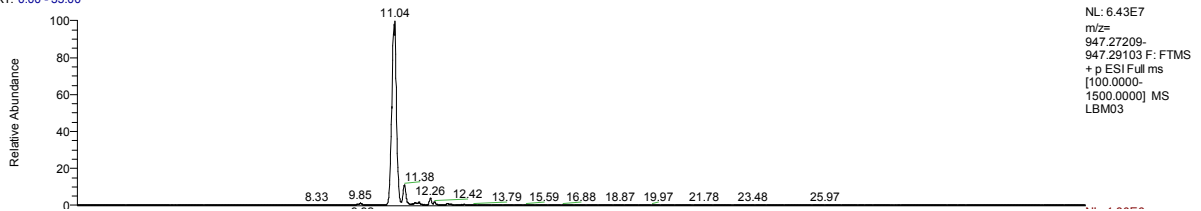
NL: 1.24E8
TIC F: FTMS + p
ESI d Full ms2
611.1603@hcd23.3
3
[50.0000-645.0000]
MS LBM03

LBM03 #4904 RT: 10.33 AV: 1 NL: 7.26E7
F: FTMS + p ESI d Full ms2 611.1603@hcd23.33 [50.0000-645.0000]

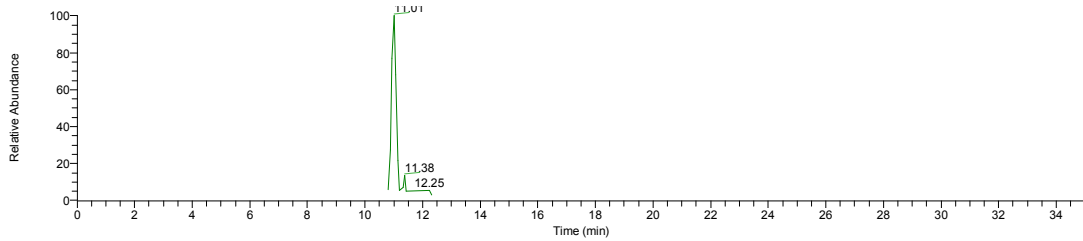


9. Malvidin-3-O-rutinoside (*p*-coumaroyl)-5-O-glucoside

RT: 0.00 - 35.00

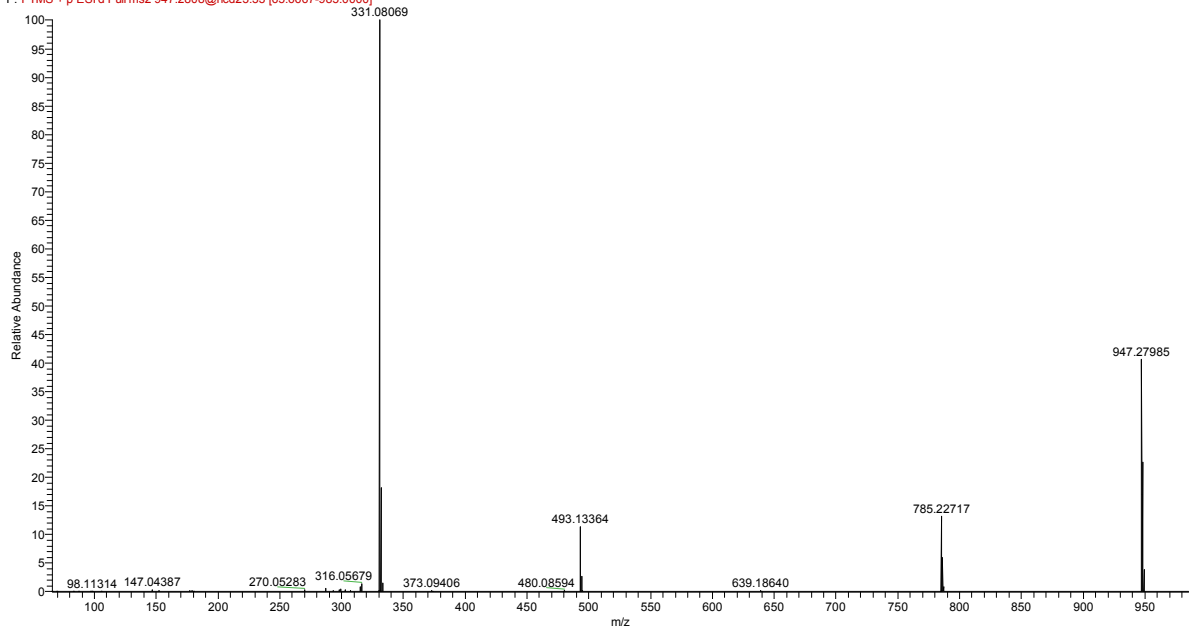


NL: 6.43E7
m/z=
947.27209-
947.29103 F: FTMS
+ p ESI d Full ms
[100.0000-
1500.0000] MS
LBM03



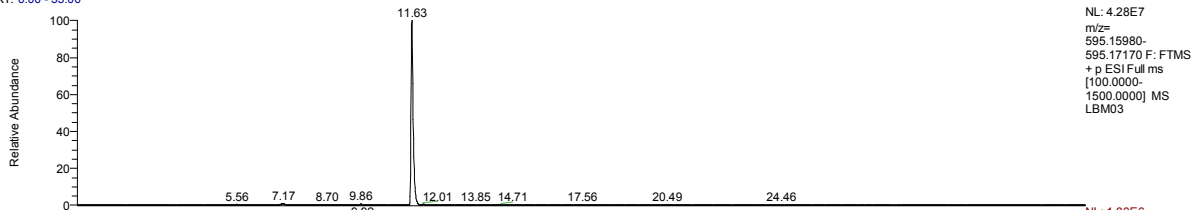
NL: 1.17E9
TIC F: FTMS + p
ESI d Full ms2
947.2808@hcd23.3
3
[65.6667-985.0000]
MS LBM03

LBM03 #5216 RT: 11.01 AV: 1 NL: 7.34E7
F: FTMS + p ESI d Full ms2 947.2808@hcd23.33 [65.6667-985.0000]

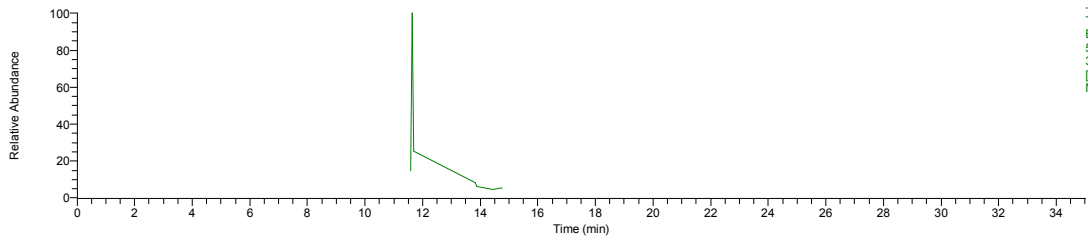


10. Cyanidin-3-O-rutinoside

RT: 0.00 - 35.00

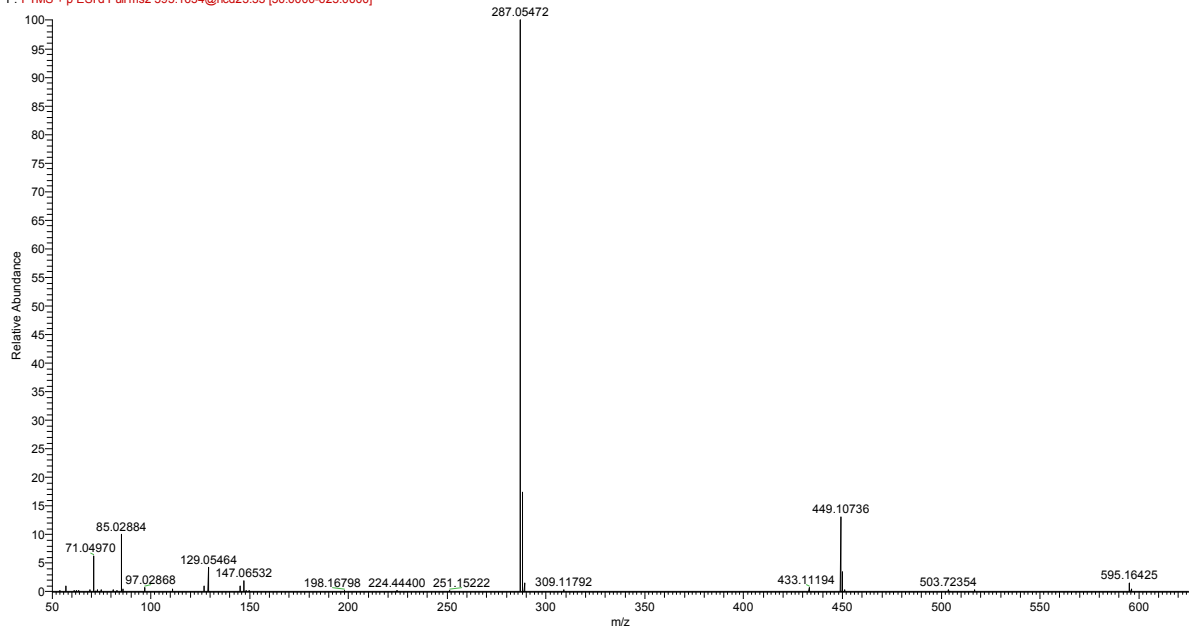


NL: 4.28E7
m/z=
595.15980-
595.17170 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



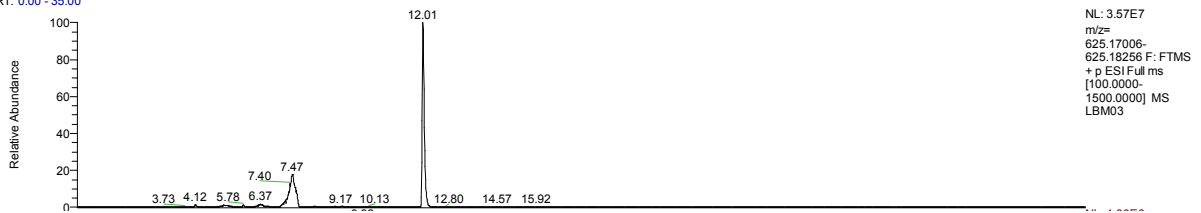
TIC F: FTMS + p
ESI d Full ms2
595.1654@hcd23.3
3
[50.0000-625.0000]
MS LBM03

LBM03 #5504 RT: 11.64 AV: 1 NL: 1.99E7
F: FTMS + p ESI d Full ms2 595.1654@hcd23.33 [50.0000-625.0000]

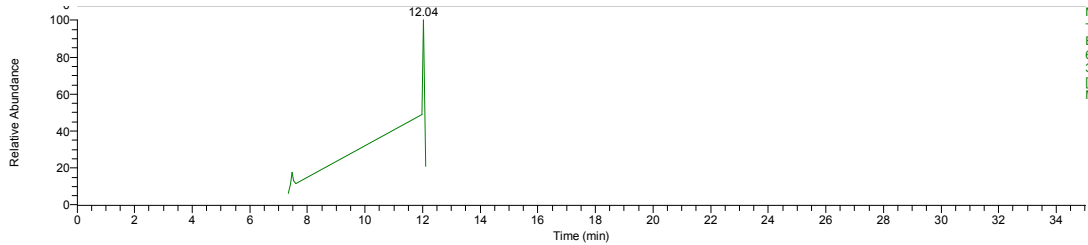


12. petunidin-3-O-rutinoside

RT: 0.00 - 35.00



NL: 3.57E7
m/z=
625.17006-
625.19256 F: FTMS
+ p ESI Full ms
[100.0000-
1500.0000] MS
LBM03



NL: 3.21E7
TIC F: FTMS + p
ESI d Full ms2
625.1760@hcd23.3
3
[50.0000-655.0000]
MS LBM03

LBM03 #5690 RT: 12.04 AV: 1 NL: 1.78E7
F: FTMS + p ESI d Full ms2 625.1760@hcd23.33 [50.0000-655.0000]

