Journal of Applied Pharmaceutical Science

Available online at: https://japsonline.com

Anti-cancer activity and brine shrimp lethality assay of the extracts and isolated compounds from *Garcinia schomburgkiana* Pierre

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doi: https://doi.org/10.7324/JAPS.2025.209800

SUPPLEMENTARY MATERIAL

Table S1. The cytotoxicity and brine shrimp lethality activity of the methanol extract from various parts of *Garcinia schomburgkiana* Pierre

Extract	Cytotoxic (Cell lines; ED_{50} (µg/mL))[a]				BSLA (LC_{50}; µg/mL))
	THP-1[a]	A549[a]	HepG2[a]	Vero[a]	
Fruits	>200	>200	>200	>200	618.56
Leaves	>200	>200	>200	>200	>1000
Twigs	>200	>200	>200	>200	>1000
Ellipticine	0.48	0.54	0.53	0.51	-
$K_2Cr_2O_7$					21.01

[a]THP-1, human monocytic leukemia; A549, human lung carcinoma; HepG2, human hepatocellular carcinoma; Vero, normal African green monkey kidney.
Ellipticine and $K_2Cr_2O_7$ were used as a positive control for cytotoxicity and brine shrimp lethality assays.

Figure S1. ^{1}H NMR spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

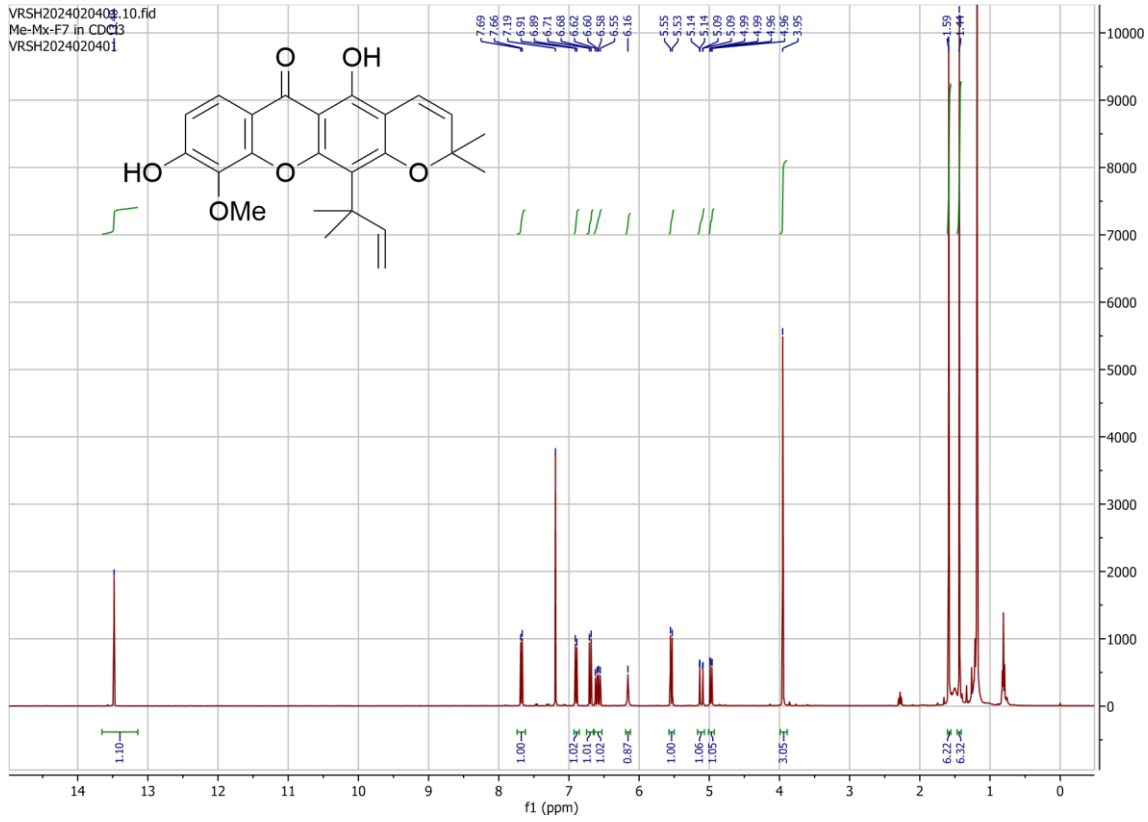


Figure S2. ^{13}C NMR spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

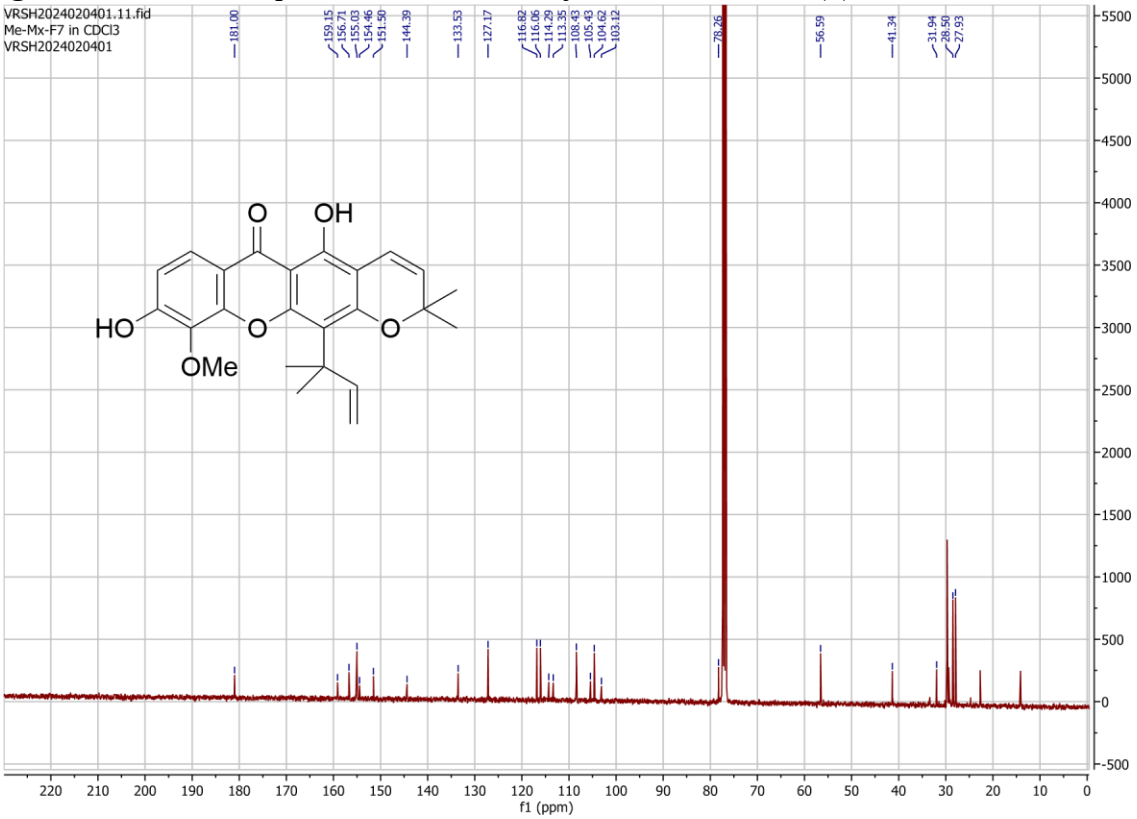


Figure S3. DEPT-135 spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

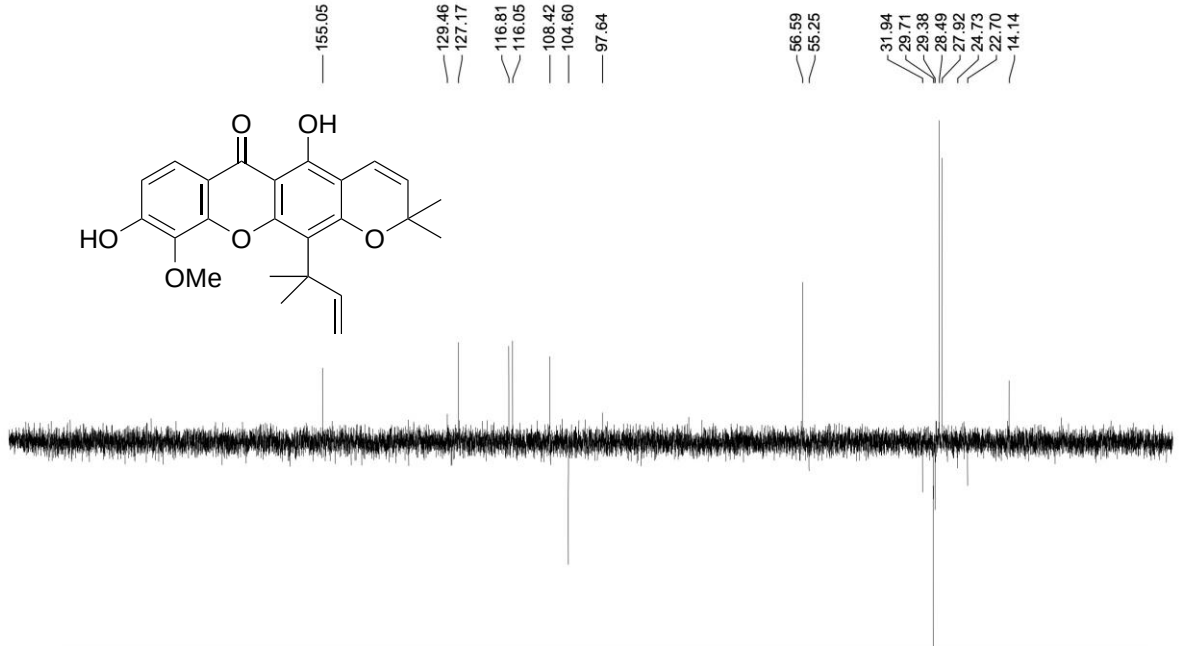


Figure S4. DEPT-90 spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

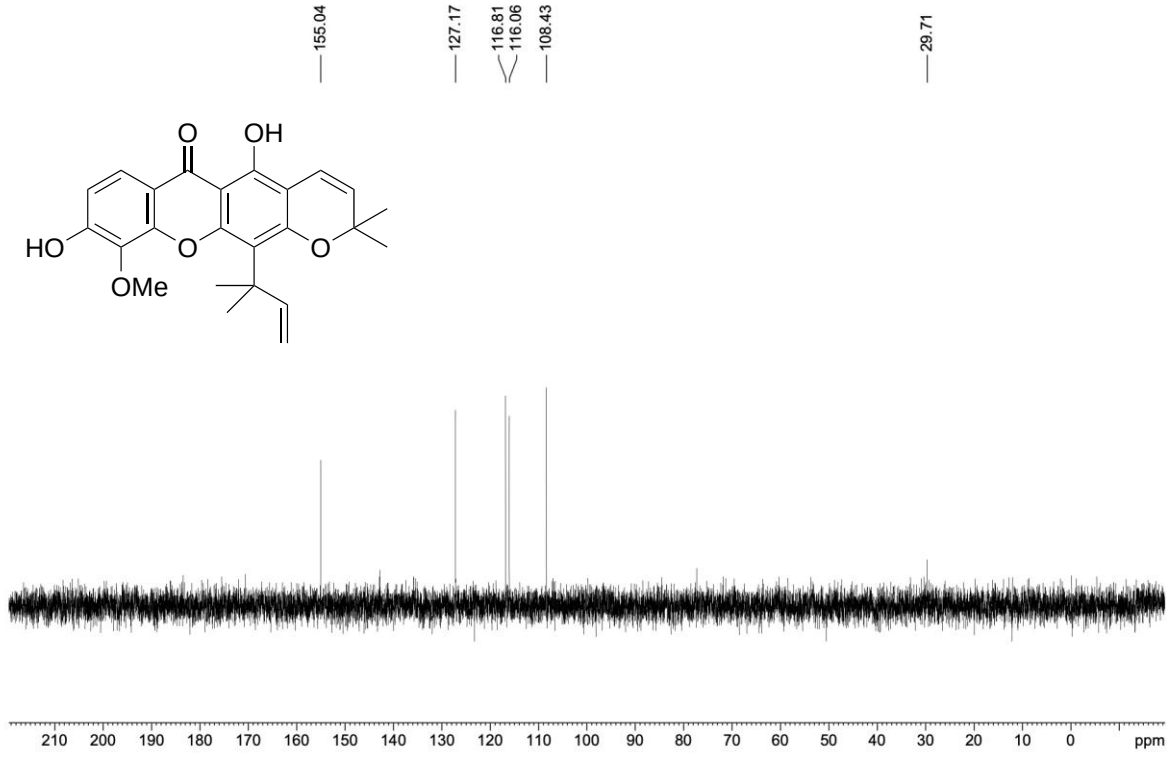


Figure S5. COSY spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

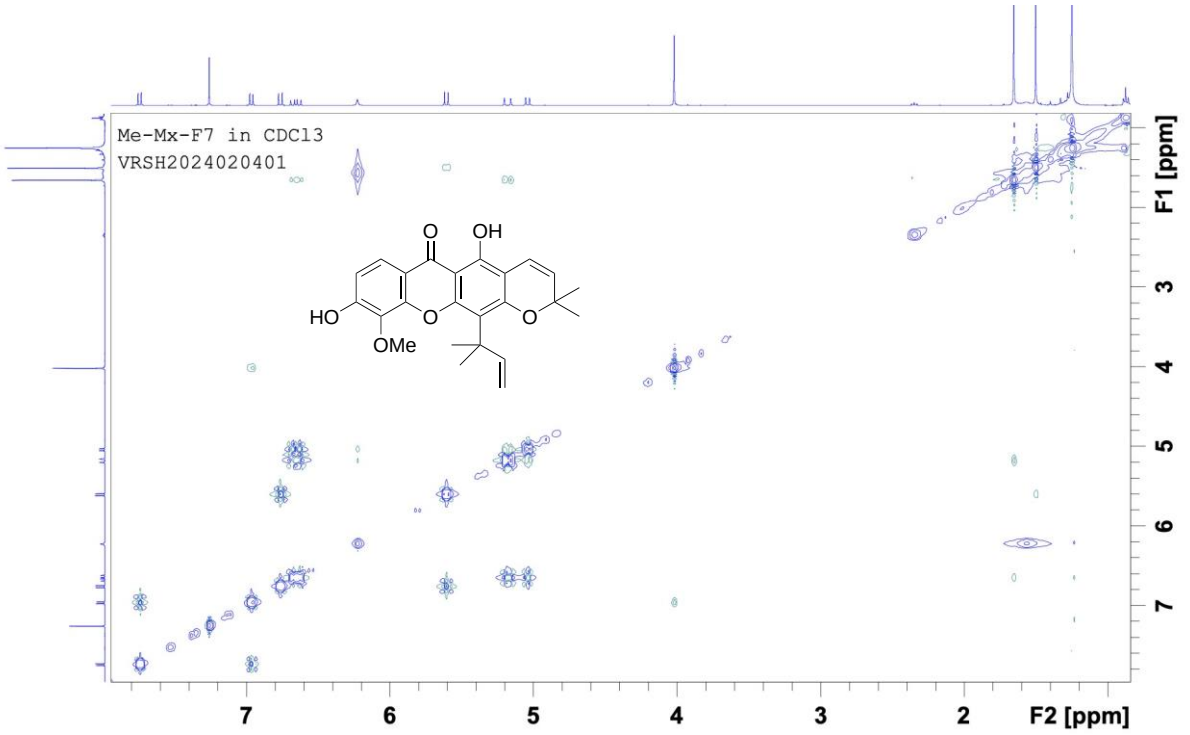


Figure S6. HSQC spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

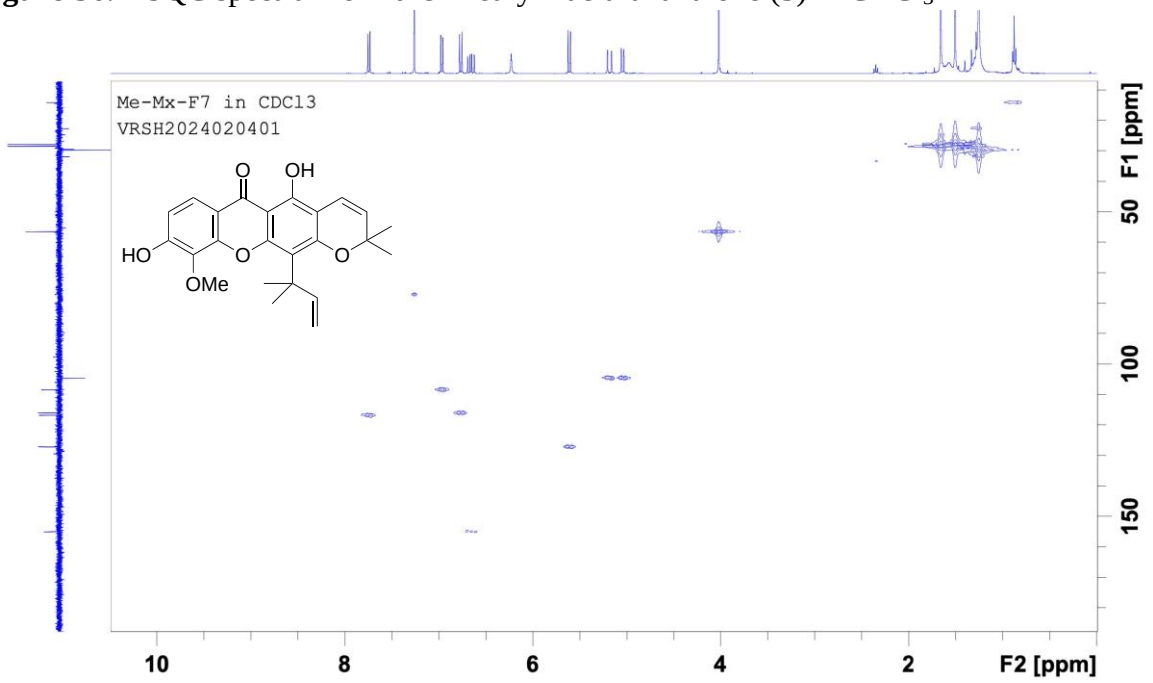


Figure S7. HMBC spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

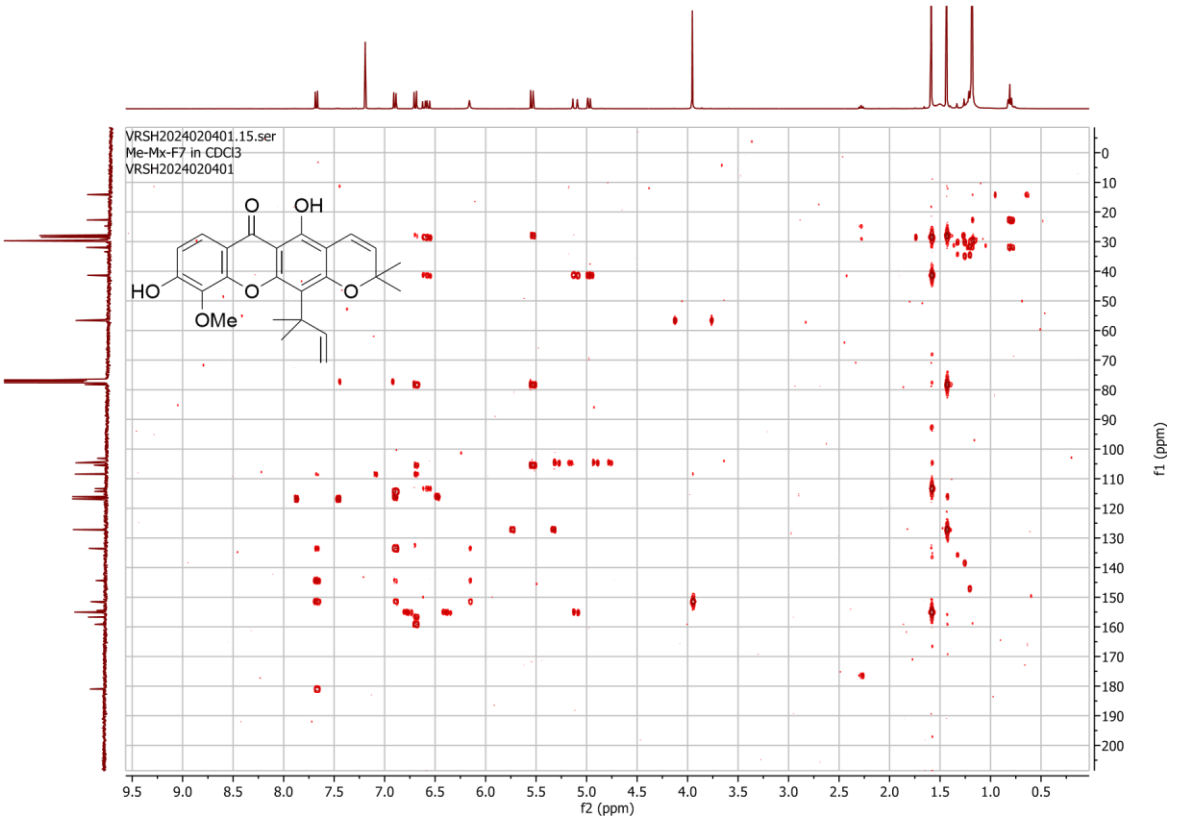


Figure S8. NOESY spectrum of 10-*O*-methylmacluraxanthone (**3**) in $CDCl_3$

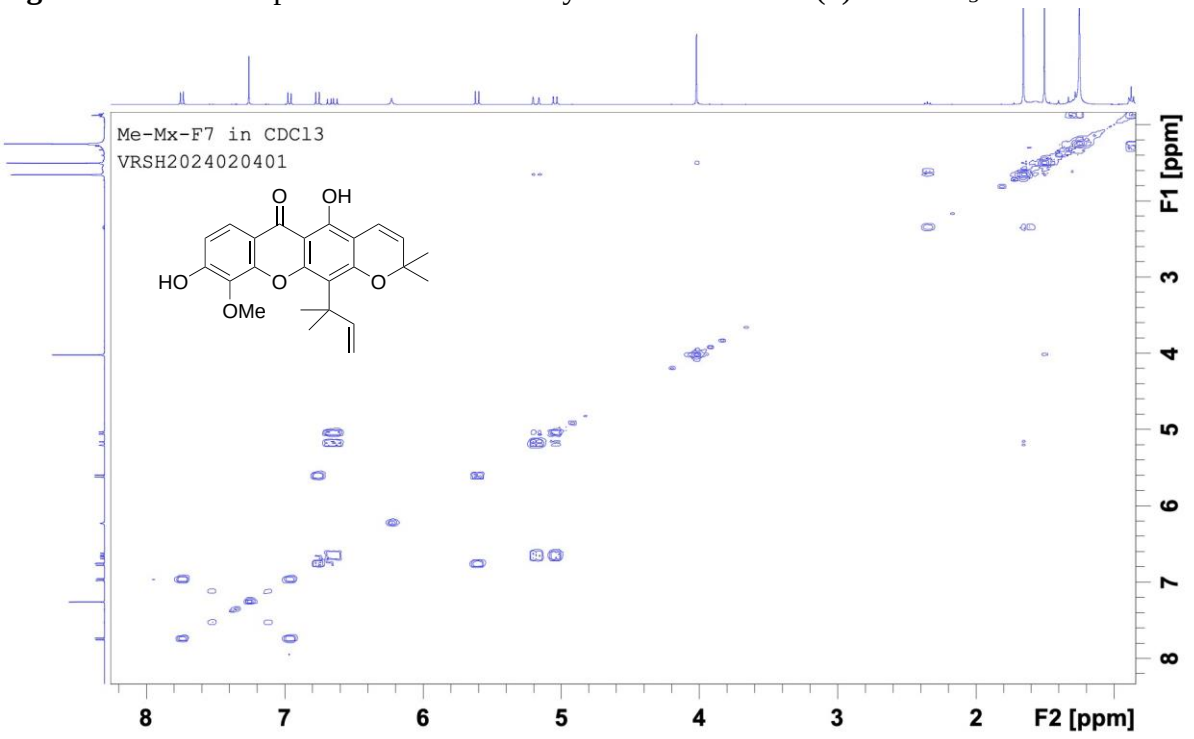


Figure S9. ^{1}H NMR spectrum of 10-*O*-methylmacluraxanthone (**3**) in CD_3COCD_3

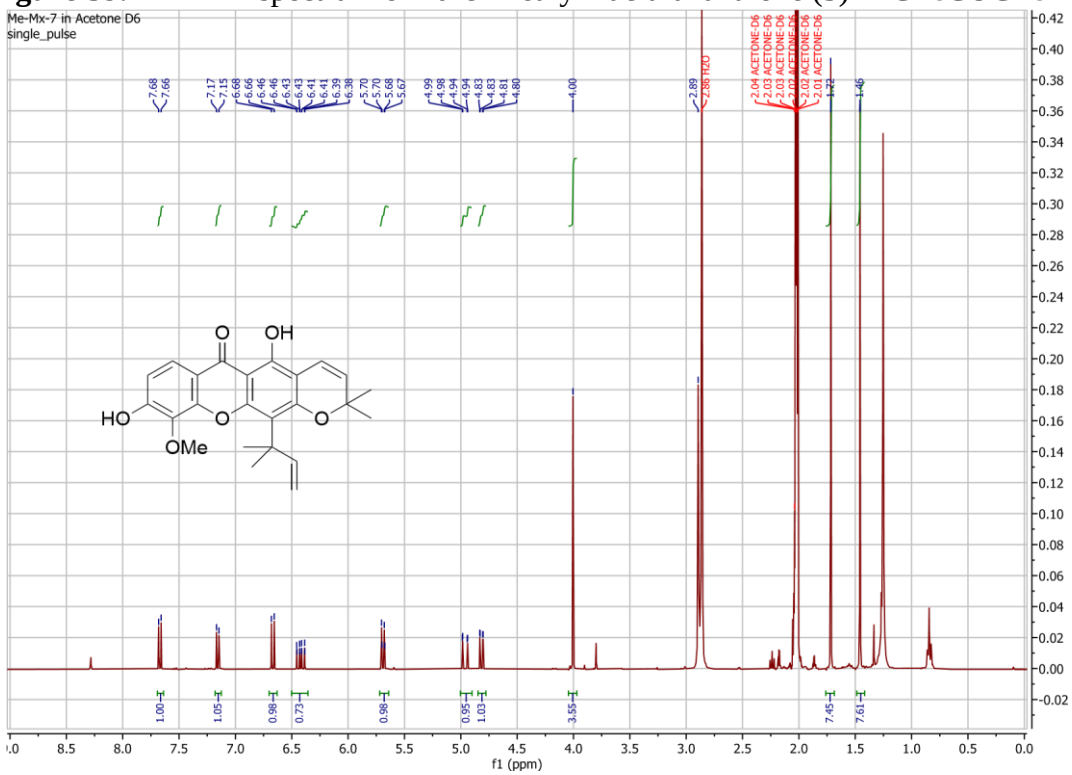


Figure S10. ^{13}C NMR spectrum of 10-*O*-methylmacluraxanthone (**3**) in CD_3COCD_3

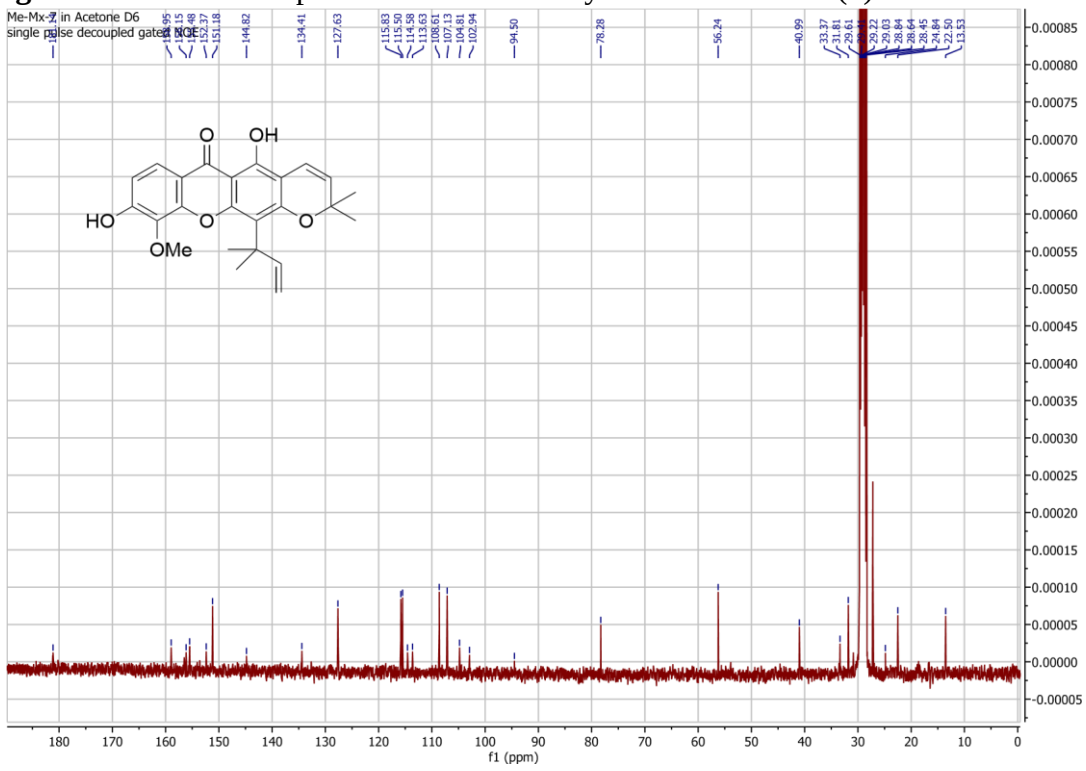


Figure S11. HR-ESI-MS spectrum of 10-*O*-methylmacluraxanthone (**3**)

Mass Spectrum List Report

Analysis Info **Acquisition Date** 5/3/2024 1:55:06 PM

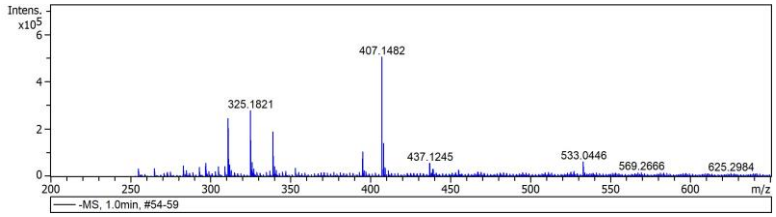
Analysis Name D:\Data\SCMU_DATA\SCNS_03_2024\05032024\VR\20240305_VR_Me-Mx-7.d **Operator** N A T T H APA T.S

Sample Name Me-Mx-7 **Instrument** compact 8255754.20333

Comment **Method** ESI_Neg_TuingMix.m

Acquisition Parameter

Source Type	ESI	Ion Polarity	Negative	Set Nebulizer	0.3 Bar
Focus	Active			Set Dry Heater	230 °C
Scan Begin	50 m/z	Set Capillary	3500 V	Set Dry Gas	5.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Source



#	m/z	Res.	S/N	I	I %	FWHM
1	255.2309	9810	880.6	32720	6.5	0.0260
2	265.1458	9661	849.8	33641	6.7	0.0274
3	283.2622	9677	997.5	44697	8.8	0.0293
4	285.1131	6905	532.1	24239	4.8	0.0413
5	293.1770	9899	810.2	39458	7.8	0.0296
6	297.1508	8992	1133.0	56860	11.3	0.0330
7	305.1023	9580	792.6	42538	8.4	0.0318
8	309.1717	9826	769.8	42237	8.4	0.0315
9	311.1665	11460	4399.8	245491	48.6	0.0272
10	312.1703	9972	883.9	49539	9.8	0.0313
11	313.1651	7242	467.0	26289	5.2	0.0432
12	325.1821	11651	4634.0	279051	55.2	0.0279
13	326.1857	10255	992.3	60087	11.9	0.0318
14	327.1764	5444	530.7	32309	6.4	0.0601
15	337.2024	9010	367.5	23319	4.6	0.0374
16	339.1977	11274	2955.0	188849	37.4	0.0301
17	340.2013	10215	655.0	41895	8.3	0.0333
18	341.1909	5019	408.2	26165	5.2	0.0680
19	353.1990	8366	529.1	35656	7.1	0.0422
20	395.1483	10592	1267.9	103756	20.5	0.0373
21	396.1519	9512	312.1	25667	5.1	0.0416
22	407.1482	13549	5932.0	505254	100.0	0.0300
23	408.1518	11197	1646.4	140611	27.8	0.0365
24	409.1569	8514	450.5	38542	7.6	0.0481
25	411.1510	5991	298.6	25816	5.1	0.0686
26	437.1245	9373	595.2	56952	11.3	0.0466
27	439.1428	6474	339.6	32789	6.5	0.0678
28	455.1439	6578	267.5	27243	5.4	0.0692
29	527.1571	7399	161.4	22790	4.5	0.0712
30	533.0446	10990	442.3	63275	12.5	0.0485