

**Table S2.** Data used to calculate the AHL concentration in each *Vibrio* strain by HPLC/FT-HRMS SIM mode analysis. Numbers are counts in the mass spectra.

AHL concentration (ng/mL)	C4-HSL <sup>a</sup>	C6-HSL	C8-HSL	C12-HSL	C16-HSL	3-O-C10-HSL	3-O-C12-HSL	3-O-C13-HSL	3-OH-C10-HSL	3-OH-C12-HSL	3-OH-C13-HSL	3-OH-C14-HSL
0.4	16536	- <sup>b</sup>	-	-	-	6005	3952	7699	18541	15989	5414	33127
4.0	23347	-	-	-	-	188155	172283	155736	286136	192380	174672	225254
20.0	83460	-	-	-	-	927377	1068419	854272	1361511	926104	890182	1253045
37.5	-	722787	1675846	7372036	-	-	-	-	-	-	-	-
75.0	287128	1764720	3763713	15162081	52376	3332762	3562948	2663970	5212194	3520142	3070748	4141870
150.0	560013	3220846	6370386	29729334	-	6830983	7992041	6861302	10042822	6882957	6944537	7962442
300.0	1139650	7695713	14674226	56614581	-	12966093	15158010	12917475	17304998	13116674	12983242	14718011
500.0	1831893	-	-	-	112751	20978191	23821804	20488901	25799960	20912686	21747024	23458510
750.0	-	14289711	24277824	102489159	-	-	-	-	-	-	-	-
800.0	3044747	-	-	-	125248	31351451	36952643	31346502	40525788	33247003	34819034	40391010
1000.0	-	18220568	33089439	135380554	-	-	-	-	-	-	-	-

**Linear fitting for each standard**

AHL standard	Calibration curve	Adjusted R-squared
C4-HSL	$y = 3762.05x + 3653.52$	$R^2 = 0.9994$
C6-HSL	$y = 17948.66x + 734677.94$	$R^2 = 0.9839$
C8-HSL	$y = 31214.48x + 1.94466E6$	$R^2 = 0.9763$
C12-HSL	$y = 128310.81x + 8.33816E6$	$R^2 = 0.9860$
C16-HSL	$y = 108.40x + 42415.45$	$R^2 = 0.9580$
3-O-C10-HSL	$y = 39673.20x + 401173.9$	$R^2 = 0.9972$
3-O-C12-HSL	$y = 46463.99x + 350199.5$	$R^2 = 0.9982$
3-O-C13-HSL	$y = 39650.32x + 245819.0$	$R^2 = 0.9973$
3-OH-C10-HSL	$y = 50245.13x + 953573.8$	$R^2 = 0.9946$
3-OH-C12-HSL	$y = 41453.76x + 268668.7$	$R^2 = 0.9994$
3-OH-C13-HSL	$y = 43499.44x + 23373.51$	$R^2 = 0.9998$
3-OH-C14-HSL	$y = 49359.17x + 112302.0$	$R^2 = 0.9977$

<sup>a</sup>Columns indicate area peak of the analyte

<sup>b</sup>Missing area peaks indicate that this concentration was not used during calibration process