Table 5. Frequencies (in c.d^{-1} and μHz) detected in the CoRoT data of HD 181231 with the TiSAFT, Clean-NG, and Pasper methods. The minimum detectable frequency is 1/T=0.0064 c.d^{-1}, i.e., 0.075 μHz, where T is the length of the run. The error bar of the frequencies is Δf=1/(4T)=0.0016 c.d^{-1}, i.e., 0.019 μHz. The amplitudes and phases calculated with Amphi for each of the three sets of frequencies are reported in Cols. 5 and 6 together with their error bars. The last column gives our interpretation of each frequency.

Frequency				Amplitude	Phase	Interpretation
TiSAFT	Clean-NG	Pasper				
c.d^{-1}	c.d^{-1}	c.d^{-1}	μHz	μmag	[0:2π]	
	0.0032		0.037	65042.9 ± 1199.92	3.22 ± 0.01	$f_0 = 2\Delta f < 1/T$
		0.0045	0.051	4935.67 ± 2.92	4.16 ± 0.01	$< 1/T$
	0.0048		0.055	37880.8 ± 0.88	5.50 ± 0.12	$3\Delta f < 1/T$
0.0085			0.098	1314.79 ± 1.07	2.29 ± 0.06	} $3 * f_0$ & 116-d beating
		0.0096	0.110	1502.34 ± 0.38	2.90 ± 0.01	
	0.0112		0.129	3019.34 ± 11.82	5.29 ± 0.12	$4 * f_0$
		0.0153	0.177	541.15 ± 0.70	6.14 ± 0.02	} $5 * f_0$ 58-d beating
	0.0160		0.185	1078.95 ± 16.54	5.97 ± 0.05	
		0.0217	0.251	280.66 ± 1.34	0.70 ± 0.00	} $7 * f_0$
	0.0239		0.277	339.83 ± 3.46	4.76 ± 0.07	
0.0244			0.284	1202.37 ± 11.49	3.69 ± 0.02	$8 * f_0$
		0.0287	0.332	111.73 ± 0.05	5.49 ± 0.07	$9 * f_0$
	0.0303		0.351	216.209 ± 3.02	4.57 ± 0.07	
	0.0351		0.406	104.899 ± 0.94	5.63 ± 0.15	$(f1 - f2)/2$
		0.0421	0.487	70.35 ± 0.97	4.57 ± 0.06	}
	0.0431		0.499	56.9403 ± 1.31	3.39 ± 0.09	
0.0478			0.553	181.98 ± 7.05	1.74 ± 0.34	$f2 - f6$
0.0575			0.665	596.18 ± 8.05	3.09 ± 0.09	
	0.0638		0.739	142.45 ± 0.86	1.67 ± 0.04	} $f2 - f4$
		0.0638	0.738	145.09 ± 0.65	4.92 ± 0.04	
0.0693			0.802	574.50 ± 9.42	3.28 ± 0.08	} $f1 - f2 \& f5 - f4$ ~14-d beating
	0.0702		0.813	249.623 ± 0.22	2.21 ± 0.03	
		0.0709	0.820	273.38 ± 1.11	4.39 ± 0.01	
		0.0766	0.886	80.75 ± 1.21	1.16 ± 0.04	
		0.0811	0.938	74.05 ± 1.06	1.43 ± 0.07	
0.1004			1.162	168.11 ± 11.15	4.26 ± 0.14	$f2 - f3$
0.1167			1.350	125.16 ± 3.25	2.08 ± 0.57	
0.1368			1.584	44.27 ± 5.93	1.83 ± 1.44	$f2 - f7$
0.1549			1.792	160.07 ± 2.18	2.17 ± 0.45	$f7/4$
0.1728			2.000	187.10 ± 6.23	2.91 ± 0.34	$f2 - f8$
0.1887			2.184	39.43 ± 9.20	4.60 ± 1.18	
0.2088			2.417	82.89 ± 11.53	4.12 ± 0.17	$f2/3$
0.2267			2.624	11.30 ± 8.99	1.49 ± 4.27	
0.2428			2.810	126.31 ± 8.15	3.12 ± 0.43	
0.2610			3.021	119.24 ± 10.65	3.48 ± 0.27	
0.2773			3.210	17.48 ± 5.98	1.83 ± 3.66	
0.2988			3.459	89.21 ± 11.43	3.71 ± 0.18	
0.3359			3.888	33.33 ± 11.52	4.09 ± 0.36	
0.3723			4.309	53.85 ± 3.29	2.07 ± 1.31	
0.4567			5.285	8.43 ± 11.52	0.95 ± 1.41	$f8$
0.4837			5.599	62.68 ± 10.64	4.35 ± 0.48	$f10$
		0.5273	6.103	67.13 ± 0.64	4.92 ± 0.09	$f3$
0.5327			6.165	26.57 ± 10.73	1.19 ± 1.10	
0.5602			6.483	49.17 ± 11.35	4.20 ± 0.40	$f4$
	0.5745		6.650	122.403 ± 0.38	2.66 ± 0.06	} $f6$
		0.5745	6.649	119.92 ± 0.61	1.81 ± 0.05	
0.5759			6.665	203.50 ± 4.65	1.95 ± 0.33	
		0.6090	7.048	84.64 ± 1.00	0.07 ± 0.07	
		0.6141	7.107	147.02 ± 0.14	5.40 ± 0.06	$f9$
		0.6192	7.167	305.73 ± 1.42	4.14 ± 0.01	} $f7$
	0.6208		7.186	136.963 ± 1.32	2.11 ± 0.24	
		0.6237	7.218	1217.05 ± 0.56	5.91 ± 0.01	} $f2$
	0.6240		7.222	482.581 ± 17.71	0.57 ± 0.05	
	0.6256		7.241	889.588 ± 8.08	5.00 ± 0.11	
0.6284			7.273	492.87 ± 3.25	2.64 ± 0.14	

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Frequency				Amplitude	Phase	Interpretation
TiSAFT	Clean-NG	Pasper				
c.d^{-1}	c.d^{-1}	c.d^{-1}	μHz	μmag	[0:2π]	
	0.6304		7.296	826.784 ± 5.82	0.35 ± 0.02	$f5$
		0.6314	7.307	780.04 ± 1.10	3.54 ± 0.00	$f5$
	0.6336		7.333	165.38 ± 1.85	6.02 ± 0.12	$f5$
	0.6942		8.035	1096.34 ± 1.08	0.25 ± 0.00	$f1$
		0.6946	8.038	1092.45 ± 0.05	2.31 ± 0.01	$f1$
0.6954			8.049	1027.77 ± 4.67	5.91 ± 0.07	$f1$
		1.1485	13.292	66.69 ± 0.84	4.70 ± 0.08	$f2 + f3 \& 2 * f6$
1.1491			13.300	95.42 ± 10.71	4.33 ± 0.30	$f2 + f3 \& 2 * f6$
		1.1778	13.632	71.86 ± 0.04	2.32 ± 0.10	
		1.2372	14.319	79.88 ± 0.94	4.64 ± 0.06	$2 * f7$
		1.2429	14.385	108.88 ± 1.35	0.87 ± 0.01	$2 * f7$
1.2459			14.420	1405.81 ± 9.38	4.56 ± 0.03	$2 * f2$
	1.2464		14.426	469.992 ± 2.99	4.59 ± 0.03	$2 * f2$
		1.2474	14.437	1616.33 ± 0.85	3.02 ± 0.00	$2 * f2$
	1.2480		14.444	1196.97 ± 3.33	3.34 ± 0.01	$2 * f2$
	1.2528		14.500	285.574 ± 0.69	5.90 ± 0.04	
		1.2531	14.504	307.47 ± 0.79	1.70 ± 0.02	
	1.2624		14.611	261.687 ± 1.22	4.28 ± 0.01	$2 * f5$
		1.2627	14.614	271.42 ± 1.05	4.48 ± 0.02	$2 * f5$
1.2640			14.630	328.66 ± 8.09	3.12 ± 0.16	$2 * f5$
1.3151			15.221	117.98 ± 11.46	3.75 ± 0.11	$f1 + f2$
		1.3170	15.242	91.40 ± 0.32	2.09 ± 0.08	$f1 + f2$
		1.3259	15.346	146.78 ± 1.08	1.23 ± 0.02	
	1.3262		15.350	169.512 ± 0.67	1.79 ± 0.04	
1.3278			15.368	139.17 ± 10.45	1.24 ± 0.23	
1.8704			21.648	98.56 ± 1.89	2.52 ± 0.07	$3 * f2$
		1.8717	21.663	93.56 ± 0.46	5.10 ± 0.07	$3 * f2$
2.4999			28.934	51.90 ± 9.51	0.17 ± 0.81	$4 * f2$
		2.5018	28.956	58.00 ± 0.90	3.24 ± 0.08	$4 * f2$