A comparison of the most feature-rich, research-grade, passive mobile sensing apps^a.

	EARS ^b	AWARE [30]	EmotionSense [31]	Purple Robot [32]	Beiwe [33]	Funf [34]	RADAR- CNS ^c [35]	StudentLife [36]	Cogito [37]	MoodScope [38]	MOSS ^d [39]	ResearchKit [40]
Geolocation	1	1	✓	1	1	1	1	1	1	1	1	1
Accelerometer	1	1	✓	1	1	1	✓	1	1		1	✓
Bluetooth colocation		1	√ e	1	1	•	1	1				
Ambient light	1	•	✓	1			1	1				
Ambient noise		1	✓	1				1				✓
Charging time	1											
Screen-on time	1		✓		1	1			1		1	
App use	•	1	✓ e	√ e		1	1	•		1		
Screen touch events					1							
SMS ^f frequency	1	1	✓	1	1	•	1		1	•	1	
SMS transcripts	1			1								
Call frequency	1	1	✓	1	1	1	✓	•	1	1	1	
Email frequency										•		
Browser history						1				1		
Calendar event frequency											1	
In-call acoustic voice sample	•											
All typed text	1	1										

Facial expressions	1											
Music choice	1											
Barometer		1										✓
Wearables	1						1					✓
Video diary ^g	1											
Audio diary ^g					1				•			
Ecological momentary assessment ^g	•	/	/		•	•		1	•	1		
Count	16	11	10	9	9	9	8	8	7	7	6	5

^aEARS, AWARE, EmotionSense, Purple Robot, Beiwe, Funf, RADAR-CNS, and ResearchKit are open source.

^bEARS: Effortless Assessment of Risk States.

^cRADAR-CNS: Remote Assessment of Disease and Relapse - Central Nervous System.

^dMOSS: Mobile Sensing and Support.

^eAvailability of the feature is limited to Android versions Kit-Kat [4.4] and below.

^fSMS: short message service.

^gFeature is not passive (ie, requires active engagement from the user).