

## H-IIA Launch Vehicle No.37 Flight Sequence (Quick Estimation)

Event	Actual value (Quick review)*1			
1. Liftoff		0	min.	0 sec.
2. SRB-A burnout *2		1	min.	32 sec.
3. SRB-A jettison *3		1	min.	46 sec.
4. Payload fairing jettison		3	min.	59 sec.
5. First stage main engine cutoff (MECO)		6	min.	31 sec.
6. 1st and 2nd stages separation		6	min.	39 sec.
7. Second stage engine lock-in (SELI1)		6	min.	48 sec.
8. Second stage engine cutoff (SECO1)		14	min.	58 sec.
9. SHIKISAI separation		16	min.	13 sec.
10. Second stage engine lock-in (SELI2)		57	min.	39 sec.
11. Second stage engine cutoff (SECO2)		57	min.	46 sec.
12. Detachment of upper adapter for TSUBAME separation		59	min.	47 sec.
13. Second stage engine ignition for the 3 <sup>rd</sup> time (SEIG3i)	1	hour	45	min. 39 sec.
14. Second stage engine cutoff (SECO3)	1	hour	46	min. 50 sec.
15. TSUBAME separation	1	hour	47	min. 59 sec.

\*1 Quick estimation value prior to the detailed estimation

\*2 When the combustion chamber pressure becomes 10% against the largest combustion pressure.

\*3 The definition of SRB-A jettison is the separation of the rear brace.