

The history information of QZS-4 operation

date	event	history							mass(kg) (※2)
			start(UT)	stop(UT)	duration	ΔV_x	ΔV_y	ΔV_z	
2018/7/19 -7/21	orbit maintenance maneuver (※1)	UNLD	2018/7/19 21:50:27	2018/7/19 21:54:59					2347
		YS→ON	2018/7/19 22:14:25	2018/7/19 22:17:37					
		#1	2018/7/19 22:22:35	2018/7/19 22:24:05	0:01:30	-2.862	-0.031	0.033	
		#2	2018/7/20 5:52:50	2018/7/20 5:54:05	0:01:15	2.366	-0.011	0.022	
		#3	2018/7/21 5:10:58	2018/7/21 5:10:59	0:00:01	-0.011	0.000	0.000	
		UNLD	2018/7/21 5:14:03	2018/7/21 5:16:11					
		ON→YS	2018/7/21 5:20:14	2018/7/21 5:21:37					
	UNLD	2018/7/21 5:26:35	2018/7/21 5:28:35						
2018/10/21	change of Yaw Steering Status	Pseudo YS	2018/10/21 3:19:26	2018/10/21 3:32:06					
			2018/10/21 14:12:46	2018/10/21 14:24:22					
2018/10/22	change of Yaw Steering Status	Pseudo YS	2018/10/22 3:15:43	2018/10/22 3:35:27					
			2018/10/22 14:09:03	2018/10/22 14:26:15					
2018/10/23	change of Yaw Steering Status	Pseudo YS	2018/10/23 3:12:47	2018/10/23 3:39:19					
			2018/10/23 14:06:15	2018/10/23 14:31:43					
2018/10/24	change of Yaw Steering Status	Pseudo YS	2018/10/24 3:10:23	2018/10/24 3:41:35					
			2018/10/24 14:03:59	2018/10/24 14:34:31					
2018/10/25	change of Yaw Steering Status	Pseudo YS	2018/10/25 3:08:15	2018/10/25 3:43:19					
			2018/10/25 14:02:07	2018/10/25 14:36:39					
2018/10/26	change of Yaw Steering Status	Pseudo YS	2018/10/26 3:06:23	2018/10/26 3:44:47					
			2018/10/26 14:00:23	2018/10/26 14:38:31					
2018/10/27	change of Yaw Steering Status	Pseudo YS	2018/10/27 3:04:39	2018/10/27 3:46:07					
			2018/10/27 13:58:55	2018/10/27 14:40:07					
2018/10/28	change of Yaw Steering Status	Pseudo YS	2018/10/28 3:03:11	2018/10/28 3:47:11					
			2018/10/28 13:57:27	2018/10/28 14:41:35					
2018/10/29	change of Yaw Steering Status	Pseudo YS	2018/10/29 3:01:35	2018/10/29 3:48:07					
			2018/10/29 13:56:15	2018/10/29 14:42:55					
2018/10/30	change of Yaw Steering Status	Pseudo YS	2018/10/30 3:00:16	2018/10/30 3:48:56					
			2018/10/30 13:55:12	2018/10/30 14:44:16					
2018/10/31	change of Yaw Steering Status	Pseudo YS	2018/10/31 2:58:56	2018/10/31 3:49:44					
			2018/10/31 13:54:08	2018/10/31 14:45:28					
2018/11/1	change of Yaw Steering Status	Pseudo YS	2018/11/1 2:57:44	2018/11/1 3:50:24					
			2018/11/1 13:53:12	2018/11/1 14:46:32					
2018/11/2	change of Yaw Steering Status	Pseudo YS	2018/11/2 2:56:32	2018/11/2 3:50:56					
			2018/11/2 13:53:04	2018/11/2 14:46:48					
2018/11/3	change of Yaw Steering Status	Pseudo YS	2018/11/3 2:56:56	2018/11/3 3:49:52					
			2018/11/3 13:54:16	2018/11/3 14:45:52					
2018/11/4	change of Yaw Steering Status	Pseudo YS	2018/11/4 2:57:36	2018/11/4 3:48:32					
			2018/11/4 13:55:28	2018/11/4 14:44:56					
2018/11/5	change of Yaw Steering Status	Pseudo YS	2018/11/5 2:58:16	2018/11/5 3:47:20					
			2018/11/5 13:56:56	2018/11/5 14:43:52					
2018/11/6	change of Yaw Steering Status	Pseudo YS	2018/11/6 2:59:04	2018/11/6 3:45:52					
			2018/11/6 13:58:24	2018/11/6 14:42:20					
2018/11/7	change of Yaw Steering Status	Pseudo YS	2018/11/7 3:00:01	2018/11/7 3:44:33					
			2018/11/7 14:00:01	2018/11/7 14:41:29					

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date	event	history							mass(kg) (※2)
			start(UT)	stop(UT)	duration	ΔV_x	ΔV_y	ΔV_z	
2018/11/8	change of Yaw Steering Status	Pseudo YS	2018/11/8 3:00:57	2018/11/8 3:42:57					
			2018/11/8 14:01:53	2018/11/8 14:39:53					
2018/11/9	change of Yaw Steering Status	Pseudo YS	2018/11/9 3:02:01	2018/11/9 3:41:21					
			2018/11/9 14:03:53	2018/11/9 14:38:09					
2018/11/10	change of Yaw Steering Status	Pseudo YS	2018/11/10 3:03:13	2018/11/10 3:39:29					
			2018/11/10 14:06:17	2018/11/10 14:35:53					
2018/11/11	change of Yaw Steering Status	Pseudo YS	2018/11/11 3:04:33	2018/11/11 3:37:29					
			2018/11/11 14:09:05	2018/11/11 14:32:49					
2018/11/12	change of Yaw Steering Status	Pseudo YS	2018/11/12 3:06:01	2018/11/12 3:35:05					
			2018/11/12 14:12:41	2018/11/12 14:28:01					
2018/11/13	change of Yaw Steering Status	Pseudo YS	2018/11/13 3:07:53	2018/11/13 3:32:01					
			2018/11/13 14:18:33	2018/11/13 14:25:21					
2018/11/14	change of Yaw Steering Status	Pseudo YS	2018/11/14 3:10:17	2018/11/14 3:26:41					
2018/11/15	change of Yaw Steering Status	Pseudo YS	2018/11/15 3:13:38	2018/11/15 3:24:42					
2019/1/16	orbit maintenance maneuver (※1)	UNLD	2019/1/16 9:30:17	2019/1/16 9:37:21					2335
		YS→ON	2019/1/16 9:56:35	2019/1/16 9:57:43					
		#1-1	2019/1/16 10:04:45	2019/1/16 10:08:02	0:03:17	-3.176	-0.009	0.044	
		#1-2	2019/1/16 11:12:09	2019/1/16 11:15:25	0:03:16	-3.176	-0.007	0.043	
		#2-1	2019/1/16 17:34:55	2019/1/16 17:37:52	0:02:57	2.868	0.047	0.024	
		#2-2	2019/1/16 18:42:19	2019/1/16 18:45:15	0:02:56	2.868	0.045	0.024	
		#3	2019/1/16 23:06:55	2019/1/16 23:07:03	0:00:08	0.126	0.002	0.001	
		UNLD	2019/1/16 23:10:01	2019/1/16 23:12:09					
ON→YS	2019/1/16 23:16:14	2019/1/16 23:19:51							
UNLD	2019/1/16 23:22:33	2019/1/16 23:24:41							
2019/4/12	change of Yaw Steering Status	Pseudo YS	2019/4/12 15:35:00	2019/4/12 15:41:56					
2019/4/13	change of Yaw Steering Status	Pseudo YS	2019/4/13 2:27:56	2019/4/13 2:33:32					
			2019/4/13 15:29:40	2019/4/13 15:44:12					
2019/4/14	change of Yaw Steering Status	Pseudo YS	2019/4/14 2:22:12	2019/4/14 2:36:12					
			2019/4/14 15:26:04	2019/4/14 15:48:04					
2019/4/15	change of Yaw Steering Status	Pseudo YS	2019/4/15 2:18:52	2019/4/15 2:39:56					
			2019/4/15 15:23:16	2019/4/15 15:50:52					
2019/4/16	change of Yaw Steering Status	Pseudo YS	2019/4/16 2:16:13	2019/4/16 2:43:17					
			2019/4/16 15:20:45	2019/4/16 15:52:45					
2019/4/17	change of Yaw Steering Status	Pseudo YS	2019/4/17 2:13:57	2019/4/17 2:45:33					
			2019/4/17 15:18:37	2019/4/17 15:54:13					
2019/4/18	change of Yaw Steering Status	Pseudo YS	2019/4/18 2:11:57	2019/4/18 2:47:25					
			2019/4/18 15:16:37	2019/4/18 15:55:25					
2019/4/19	change of Yaw Steering Status	Pseudo YS	2019/4/19 2:10:13	2019/4/19 2:48:53					
			2019/4/19 15:14:45	2019/4/19 15:56:21					
2019/4/20	change of Yaw Steering Status	Pseudo YS	2019/4/20 2:08:37	2019/4/20 2:50:13					
			2019/4/20 15:13:01	2019/4/20 15:57:09					
2019/4/21	change of Yaw Steering Status	Pseudo YS	2019/4/21 2:07:09	2019/4/21 2:51:25					
			2019/4/21 15:11:17	2019/4/21 15:57:49					
2019/4/22	change of Yaw Steering Status	Pseudo YS	2019/4/22 2:05:41	2019/4/22 2:52:21					
			2019/4/22 15:09:49	2019/4/22 15:58:21					

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date	event	history							mass(kg) (*2)
			start(UT)	stop(UT)	duration	ΔV_x	ΔV_y	ΔV_z	
2019/4/23	change of Yaw Steering Status	Pseudo YS	2019/4/23 2:04:21	2019/4/23 2:53:25					
			2019/4/23 15:08:21	2019/4/23 15:58:53					
2019/4/24	change of Yaw Steering Status	Pseudo YS	2019/4/24 2:03:10	2019/4/24 2:54:14					
			2019/4/24 15:06:54	2019/4/24 15:59:18					
2019/4/25	change of Yaw Steering Status	Pseudo YS	2019/4/25 2:02:06	2019/4/25 2:55:10					
			2019/4/25 15:05:34	2019/4/25 15:59:42					
2019/4/26	change of Yaw Steering Status	Pseudo YS	2019/4/26 2:01:18	2019/4/26 2:55:26					
			2019/4/26 15:05:26	2019/4/26 15:58:38					
2019/4/27	change of Yaw Steering Status	Pseudo YS	2019/4/27 2:02:06	2019/4/27 2:54:22					
			2019/4/27 15:05:50	2019/4/27 15:57:18					
2019/4/28	change of Yaw Steering Status	Pseudo YS	2019/4/28 2:03:02	2019/4/28 2:53:10					
			2019/4/28 15:06:14	2019/4/28 15:55:50					
2019/4/29	change of Yaw Steering Status	Pseudo YS	2019/4/29 2:03:58	2019/4/29 2:51:58					
			2019/4/29 15:06:38	2019/4/29 15:54:14					
2019/4/30	change of Yaw Steering Status	Pseudo YS	2019/4/30 2:05:10	2019/4/30 2:50:38					
			2019/4/30 15:07:10	2019/4/30 15:52:38					
2019/5/1	change of Yaw Steering Status	Pseudo YS	2019/5/1 2:06:22	2019/5/1 2:49:10					
			2019/5/1 15:07:42	2019/5/1 15:51:02					
2019/5/2	change of Yaw Steering Status	Pseudo YS	2019/5/2 2:07:43	2019/5/2 2:47:35					
			2019/5/2 15:08:23	2019/5/2 15:49:11					
2019/5/3	change of Yaw Steering Status	Pseudo YS	2019/5/3 2:09:19	2019/5/3 2:45:51					
			2019/5/3 15:09:11	2019/5/3 15:47:19					
2019/5/4	change of Yaw Steering Status	Pseudo YS	2019/5/4 2:11:03	2019/5/4 2:43:51					
			2019/5/4 15:10:07	2019/5/4 15:45:19					
2019/5/5	change of Yaw Steering Status	Pseudo YS	2019/5/5 2:13:03	2019/5/5 2:41:19					
			2019/5/5 15:11:11	2019/5/5 15:43:03					
2019/5/6	change of Yaw Steering Status	Pseudo YS	2019/5/6 2:15:35	2019/5/6 2:37:43					
			2019/5/6 15:12:23	2019/5/6 15:40:23					
2019/5/7	change of Yaw Steering Status	Pseudo YS	2019/5/7 2:18:55	2019/5/7 2:33:19					
			2019/5/7 15:13:59	2019/5/7 15:37:03					
2019/5/8	change of Yaw Steering Status	Pseudo YS	2019/5/8 2:24:47	2019/5/8 2:30:07					
			2019/5/8 15:15:59	2019/5/8 15:31:59					
2019/5/9	change of Yaw Steering Status	Pseudo YS	2019/5/9 15:18:55	2019/5/9 15:29:43					
2019/7/13 -7/14	orbit maintenance maneuver (*1)	UNLD	2019/7/13 21:56:56	2019/7/13 22:01:44					2325
		YS→ON	2019/7/13 22:21:23	2019/7/13 22:24:46					
		#1	2019/7/13 22:29:33	2019/7/13 22:34:19	0:04:46	-4.631	-0.050	0.053	
		#2	2019/7/14 5:59:47	2019/7/14 6:04:06	0:04:19	4.179	-0.019	0.039	
		#3	2019/7/14 10:58:49	2019/7/14 10:58:51	0:00:02	-0.037	0.000	0.000	
		UNLD	2019/7/14 11:12:40	2019/7/14 11:14:40					
		ON→YS	2019/7/14 11:14:43	2019/7/14 11:15:58					
		UNLD	2019/7/14 11:20:56	2019/7/14 11:22:56					

(*1) The ΔV information shows the planned value.

(*2) This information includes the analysis error.