

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13147 - L2 Version 2
Chandra X-Ray Center

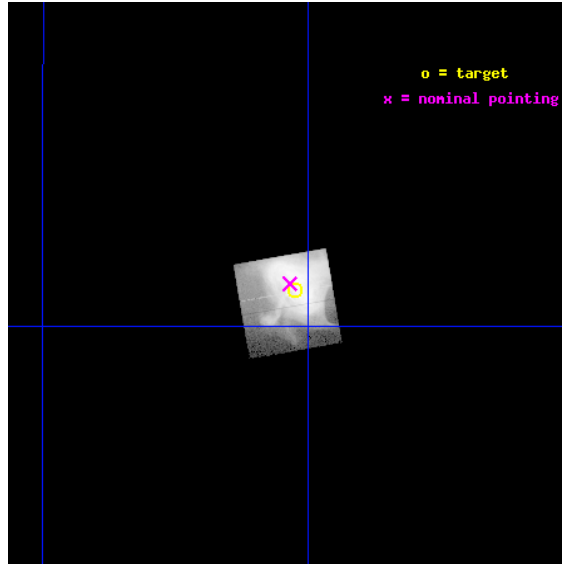
L2 Processing Date : Jul 7 2012

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1 Front

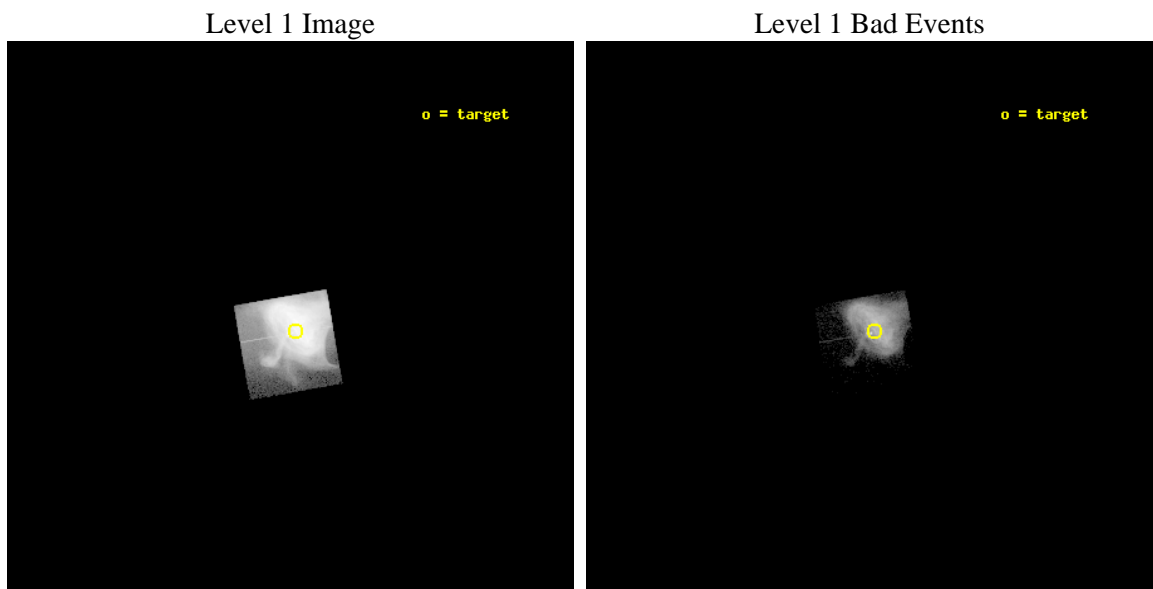
seq_num	501533	Sequence number
obs_id	13147	Observation id
title	CHANDRA imaging of the cooling front after a high energy flare	Pro
observer	Dr carlo ferrigno	Principal investigator
object	Crab	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.633858810402	Nominal RA [deg]
dec_nom	22.018139175789	Nominal Dec [deg]
roll_nom	80.15581627569	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3551.9227589965	Sum of GTIs [s]
livetime	620.81356992981	Livetime [s]
ontime7	3551.9227589965	Sum of GTIs [s]
l2events	1695403	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3551.9227589965	Sum of GTIs [s]
caldsver	4.5.0	 	ontime7	3551.9227589965	Sum of GTIs [s]
date	2012-07-07T17:18:54	Date and time of file creation	l1events	1882817	Number of level 1 events
revision	2	Processing version of data			

2.1.3 Events

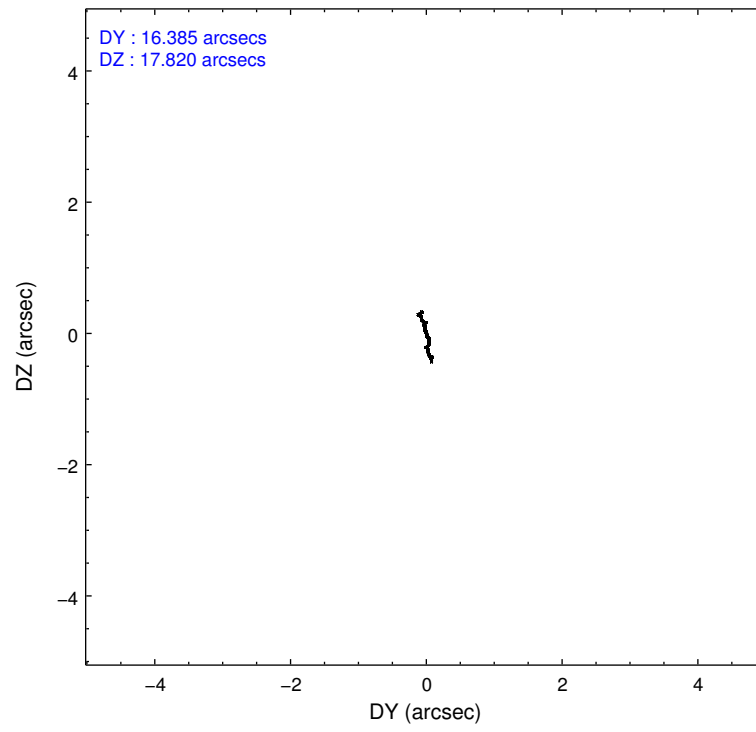
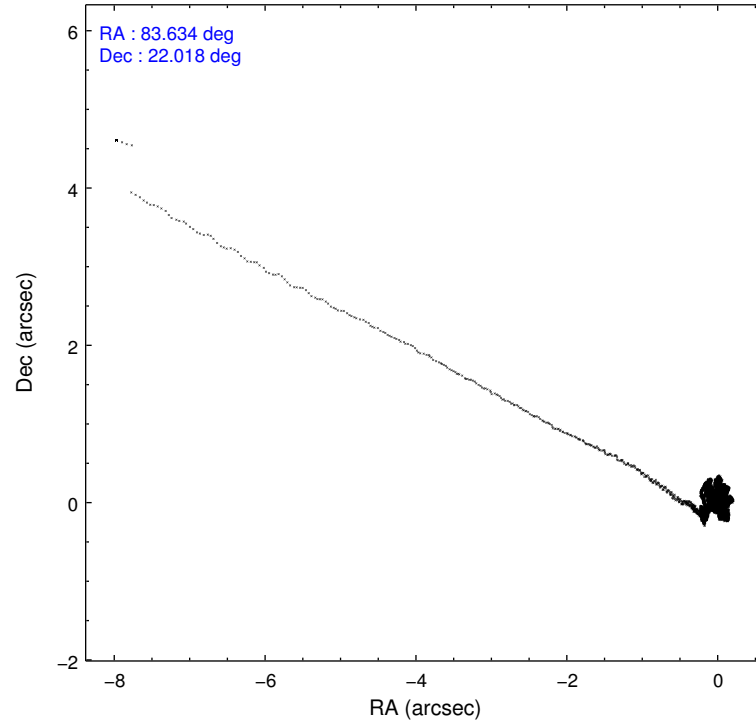
	ccd 7
level 1 events	1882817
rejected events	173729
rejected %	9%

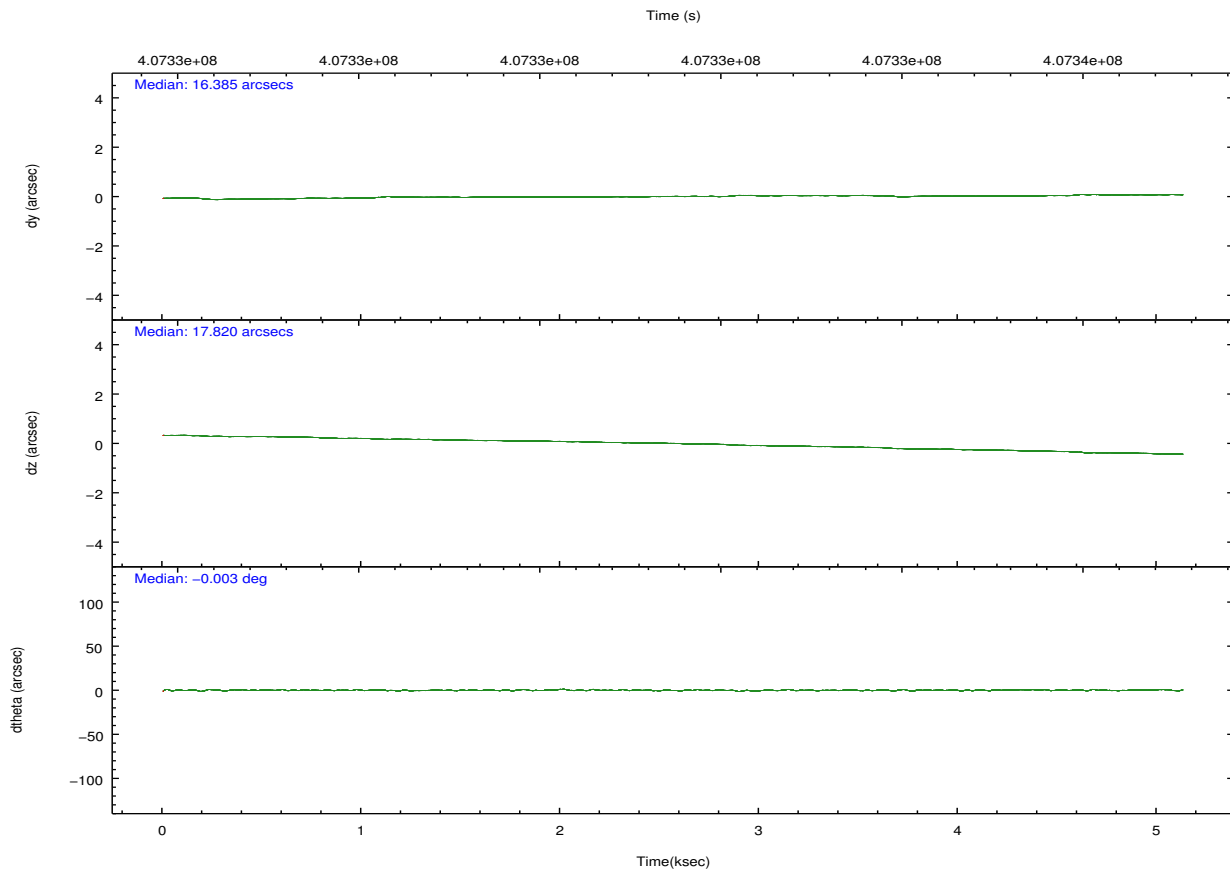
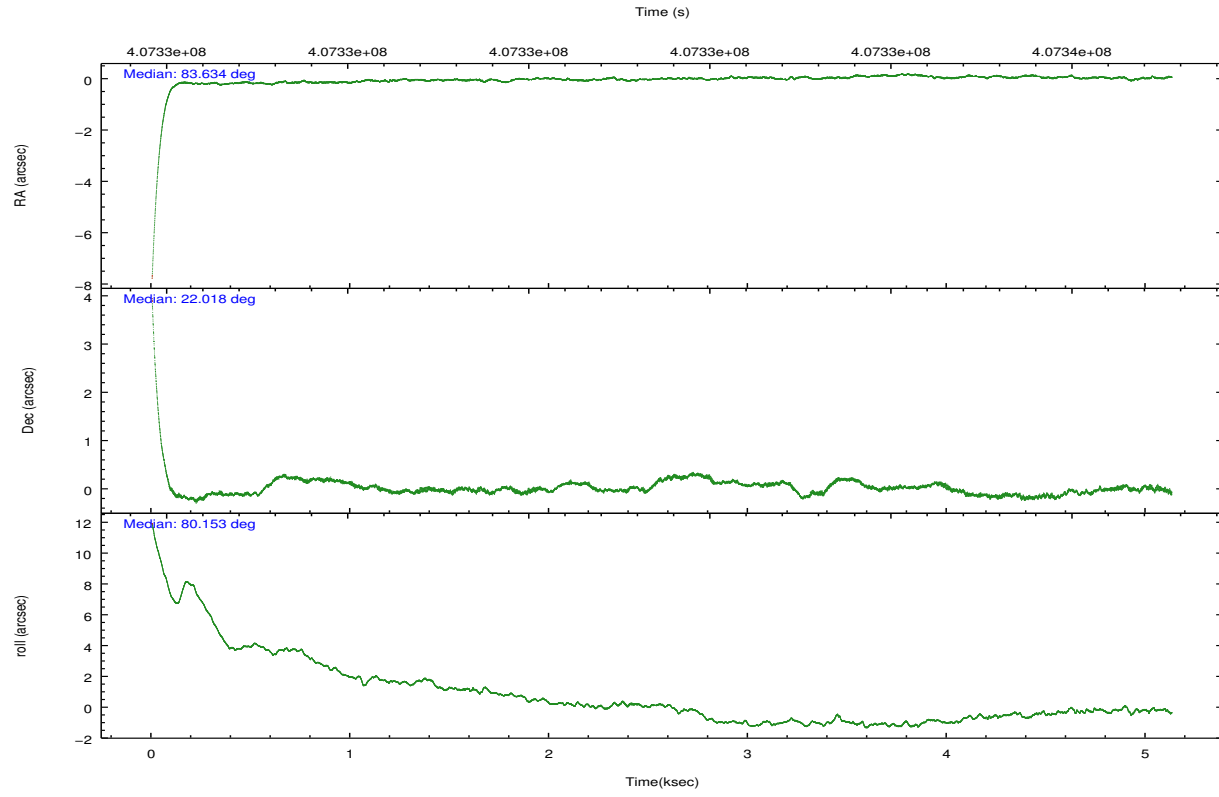
	ccd 7
grade 0 events	348295
	18%
grade 1 events	20694
	1%
grade 2 events	455252
	24%
grade 3 events	192984
	10%
grade 4 events	190488
	10%
grade 5 events	61753
	3%
grade 6 events	523083
	27%
grade 7 events	90268
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.644435	83.63385881040244	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	21.992600	22.01813917578884	Subarray start row	49	49
[deg] Pointing Roll	79.995217	80.15581627569023	Subarray row count	300	300
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.2
[mm] SIM translation stage pos	-182.620523	-182.6197489829059			
[mm] SIM translation stage offset	-7.512	-7.512773600101895			
[s] Observation start time (MET)	407330312.184000	407329073.36056			
Observation start date	2010-11-28T11:17:26	2010-11-28T10:57:53			
[s] Observation end time (MET)	407335312.184000	407336339.07343			
Observation end date	2010-11-28T12:40:46	2010-11-28T12:58:59			
Read mode	TIMED	TIMED			

2.3 Aspect



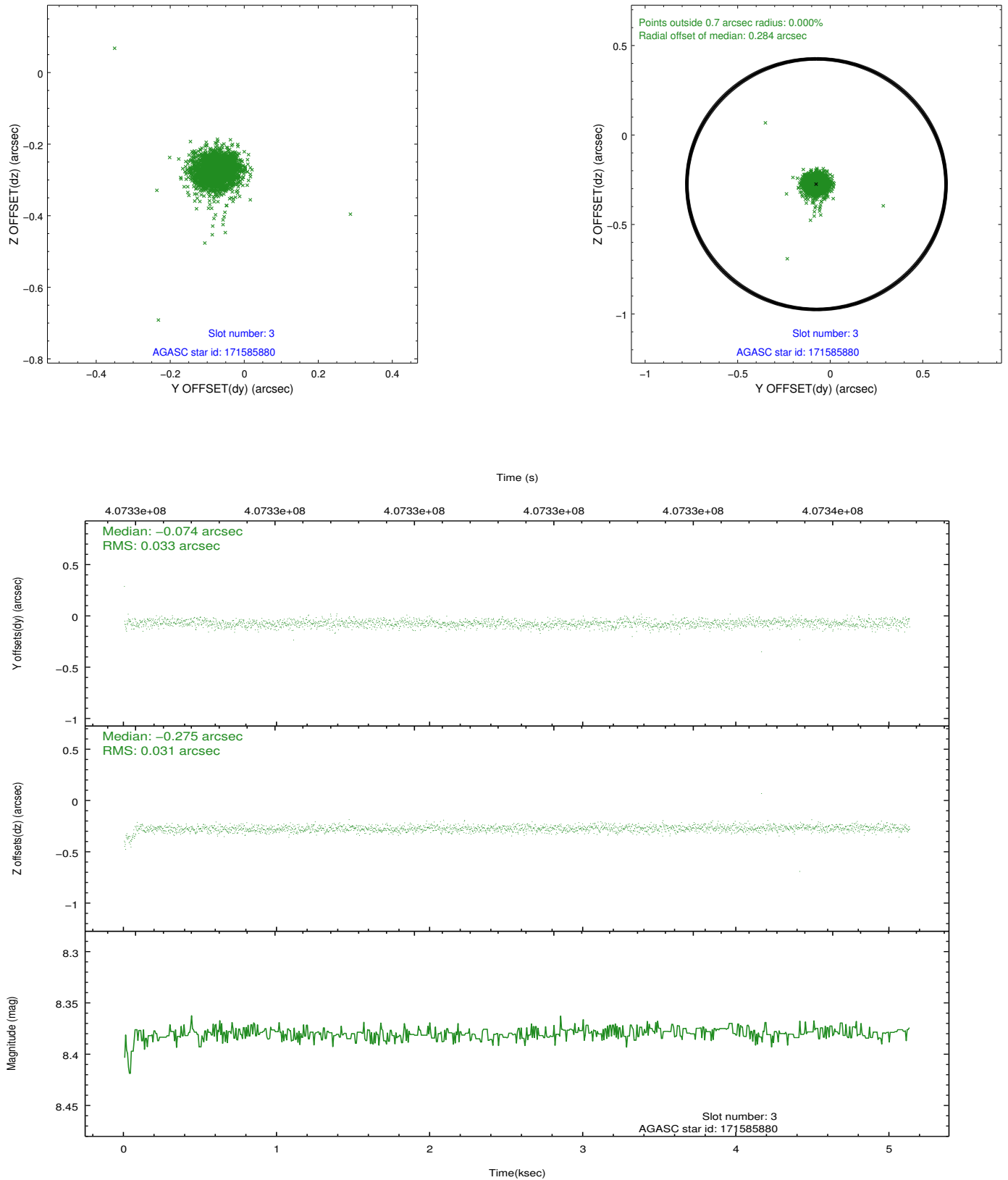


Slot Statistics

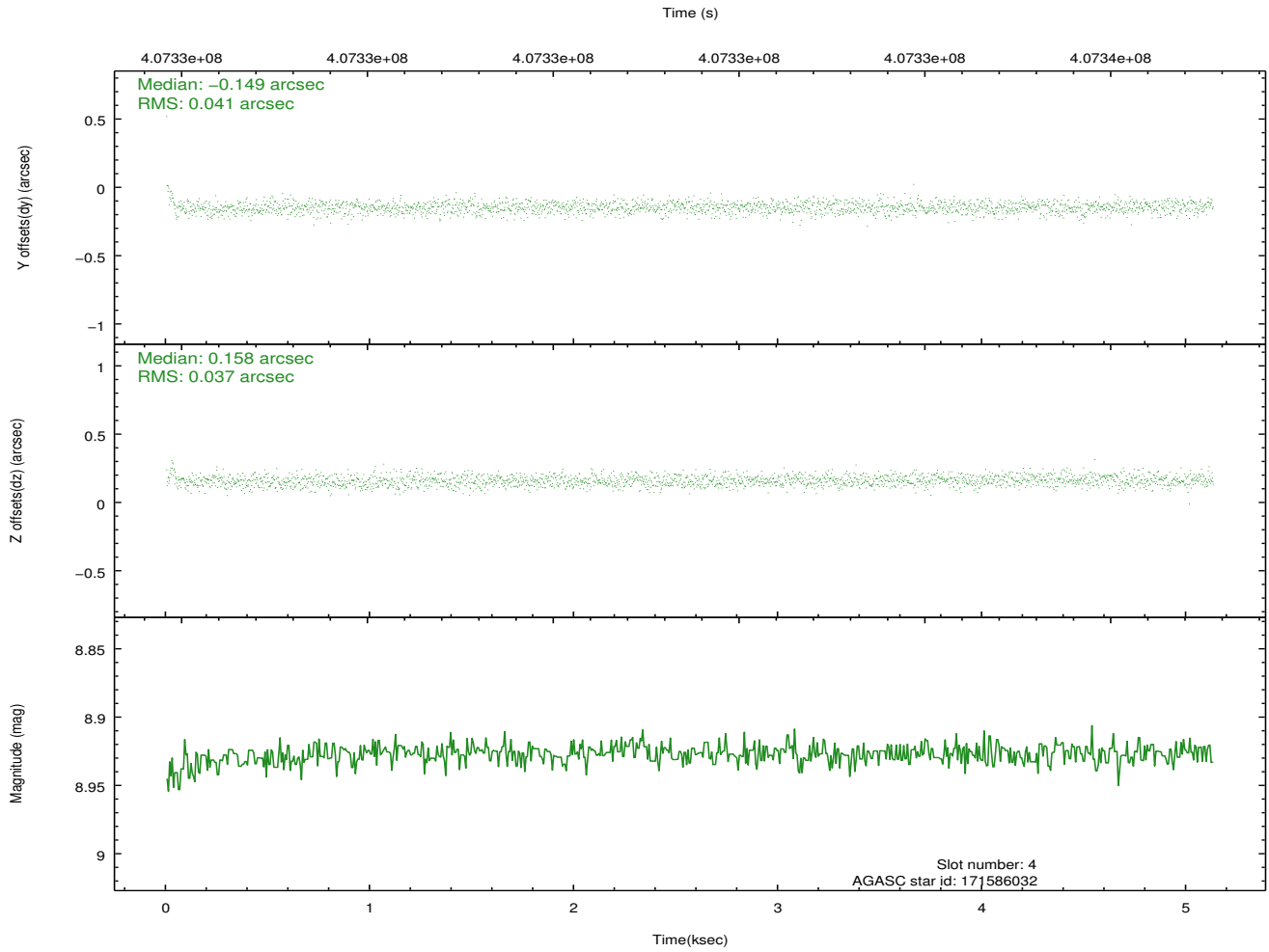
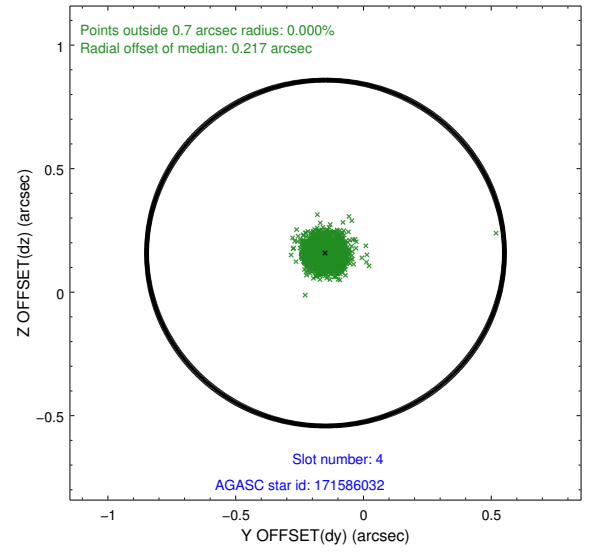
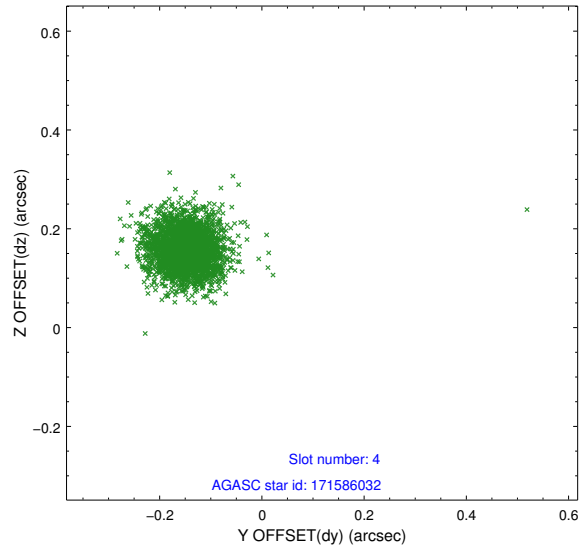
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.86	1252	-0.145	-0.112	0.007	0.013	0.000000	0.000000	-769.04	-1894.12
1	FID	ACIS-S-4	6.94	1250	0.135	0.075	0.008	0.013	0.000000	0.000000	2144.02	13.10
2	FID	ACIS-S-6	7.17	1252	-0.018	0.043	0.011	0.018	0.000000	0.000000	394.64	651.86
3	GUIDE	171585880	8.38	2503	-0.074	-0.275	0.044	0.073	83.676260	22.176319	670.12	10.16
4	GUIDE	171586032	8.93	2503	-0.149	0.158	0.056	0.092	83.950197	22.083225	500.08	-947.46
5	GUIDE	171721904	9.17	2498	-0.049	-0.197	0.065	0.110	84.272676	22.116922	809.68	-1985.45
6	GUIDE	171582064	9.35	2502	0.334	0.124	0.068	0.112	83.865924	21.294346	-2344.79	-1169.10
7	GUIDE	243941560	8.32	2501	-0.061	0.188	0.043	0.073	83.733264	22.568598	2092.66	69.35

2.4 Star Slots

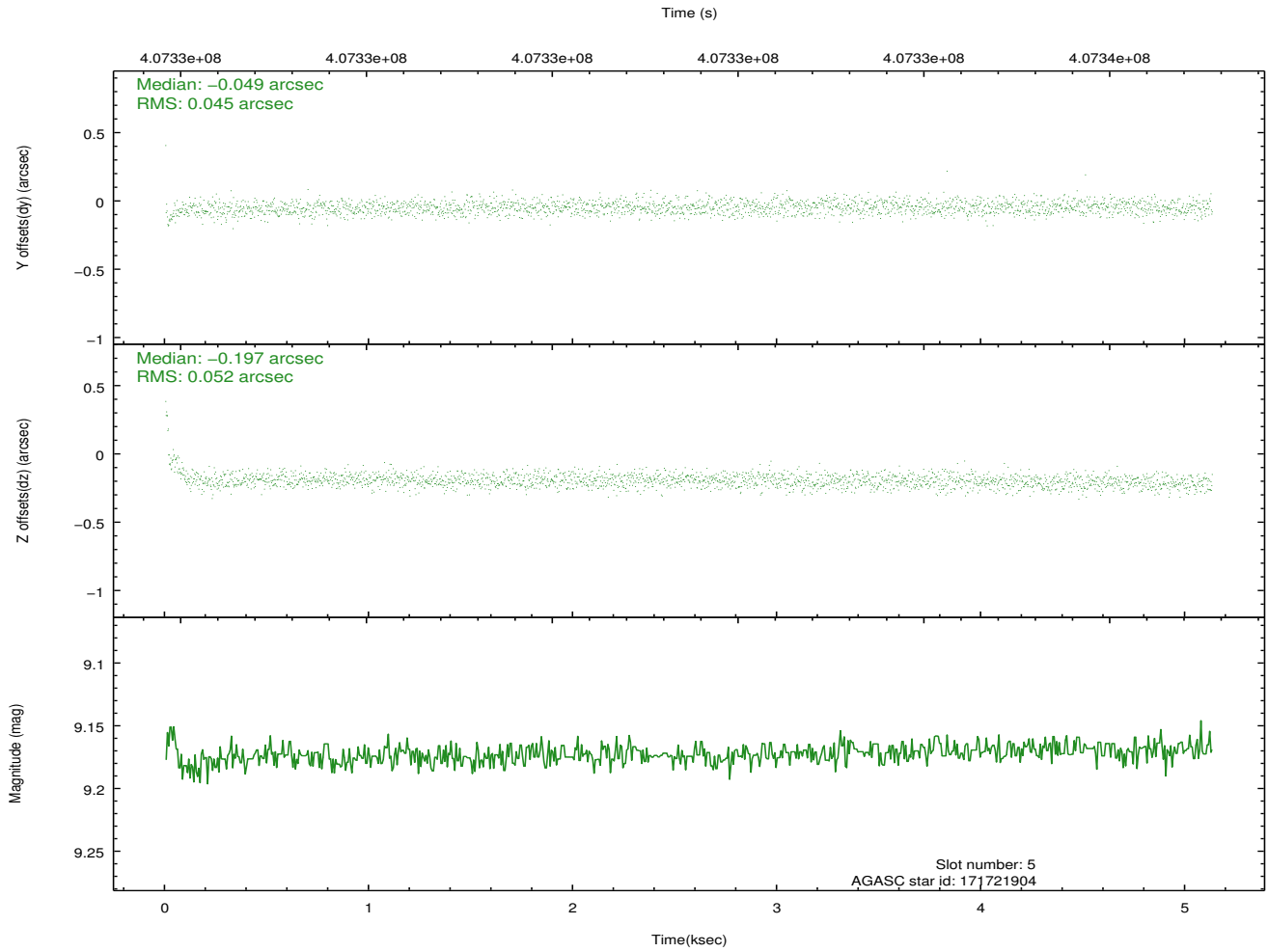
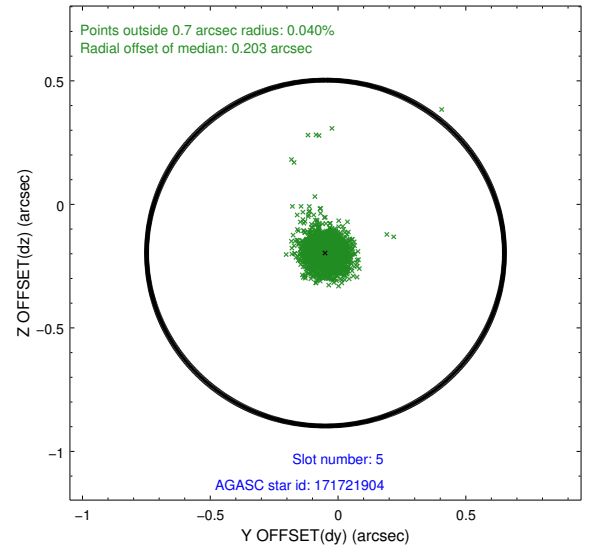
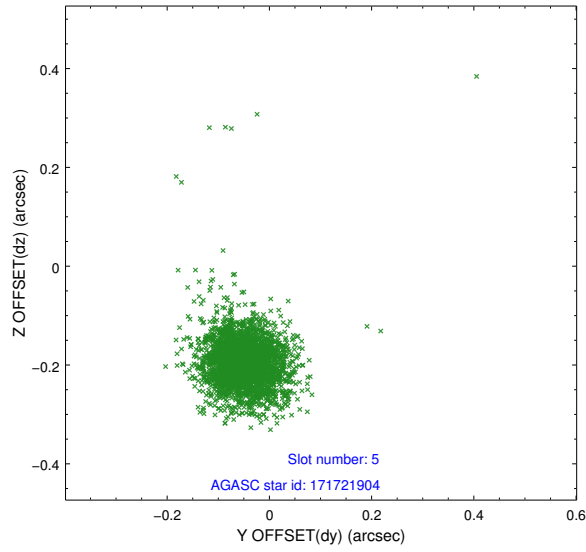
2.4.1 Slot 3



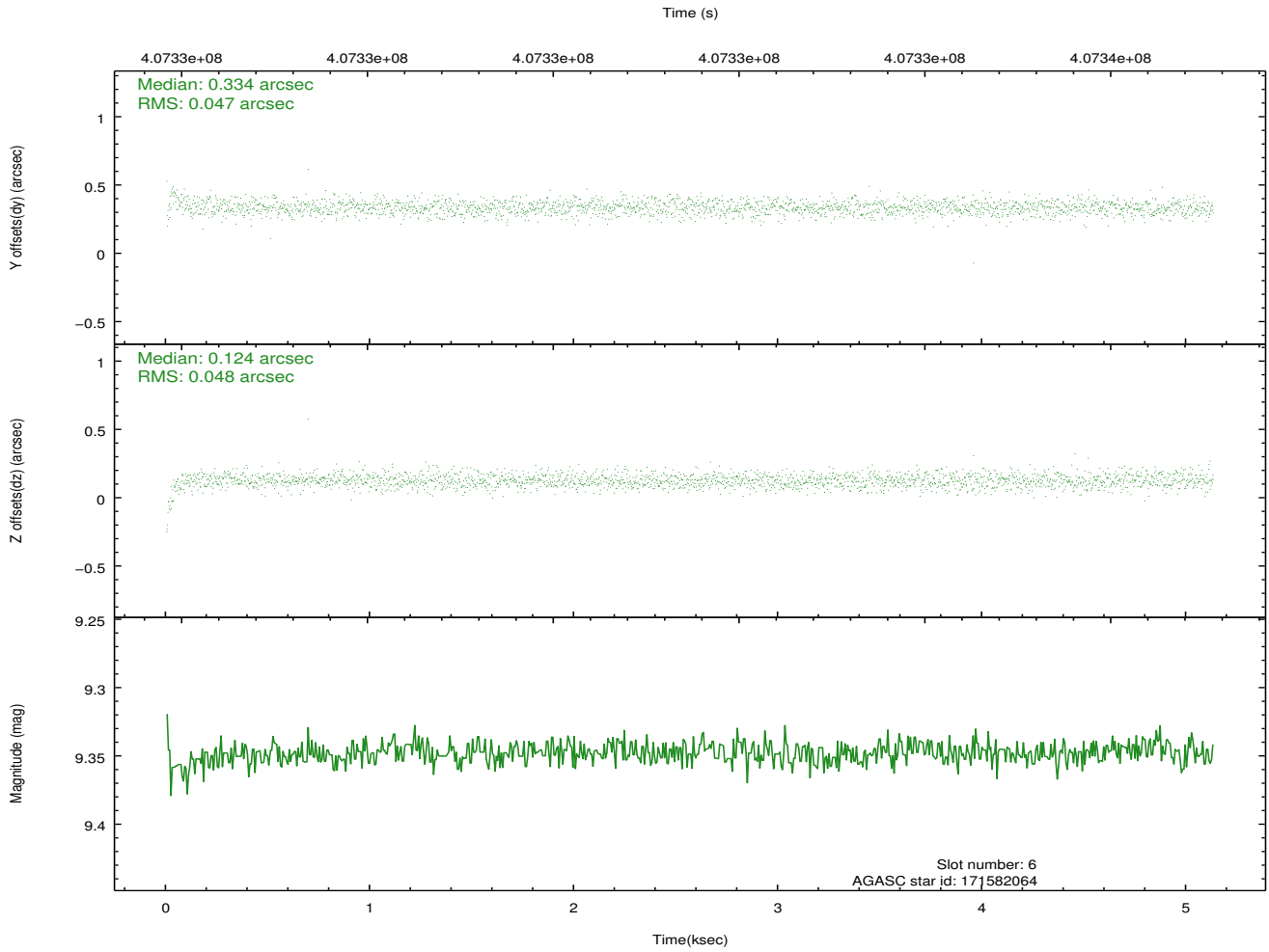
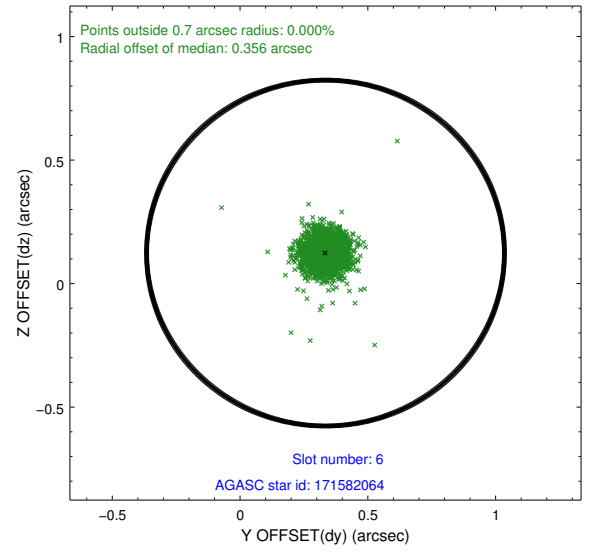
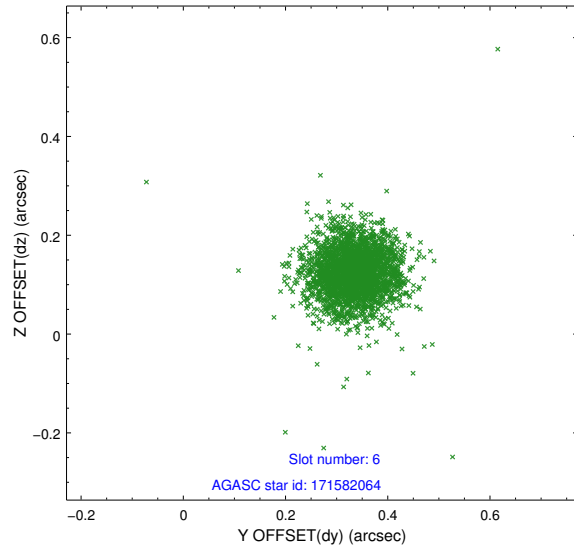
2.4.2 Slot 4



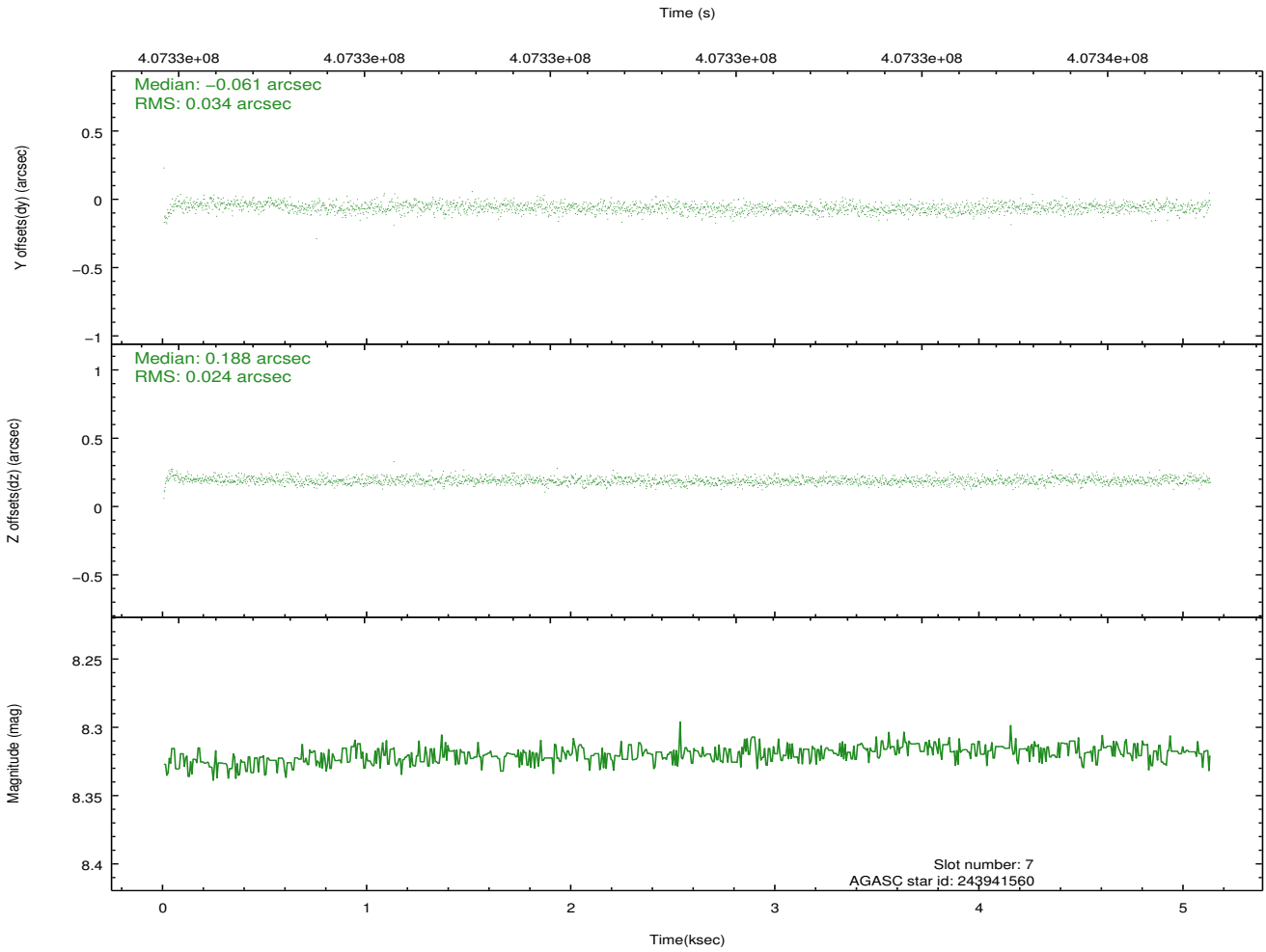
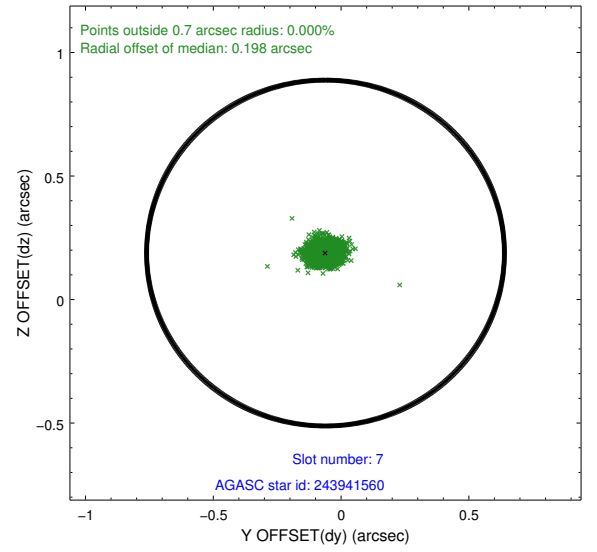
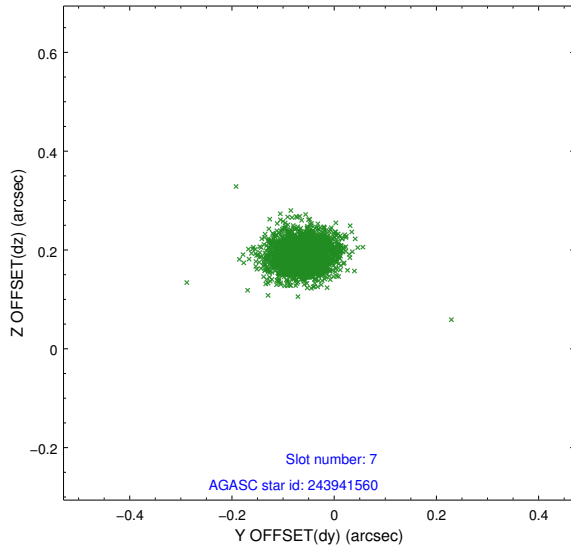
2.4.3 Slot 5



2.4.4 Slot 6

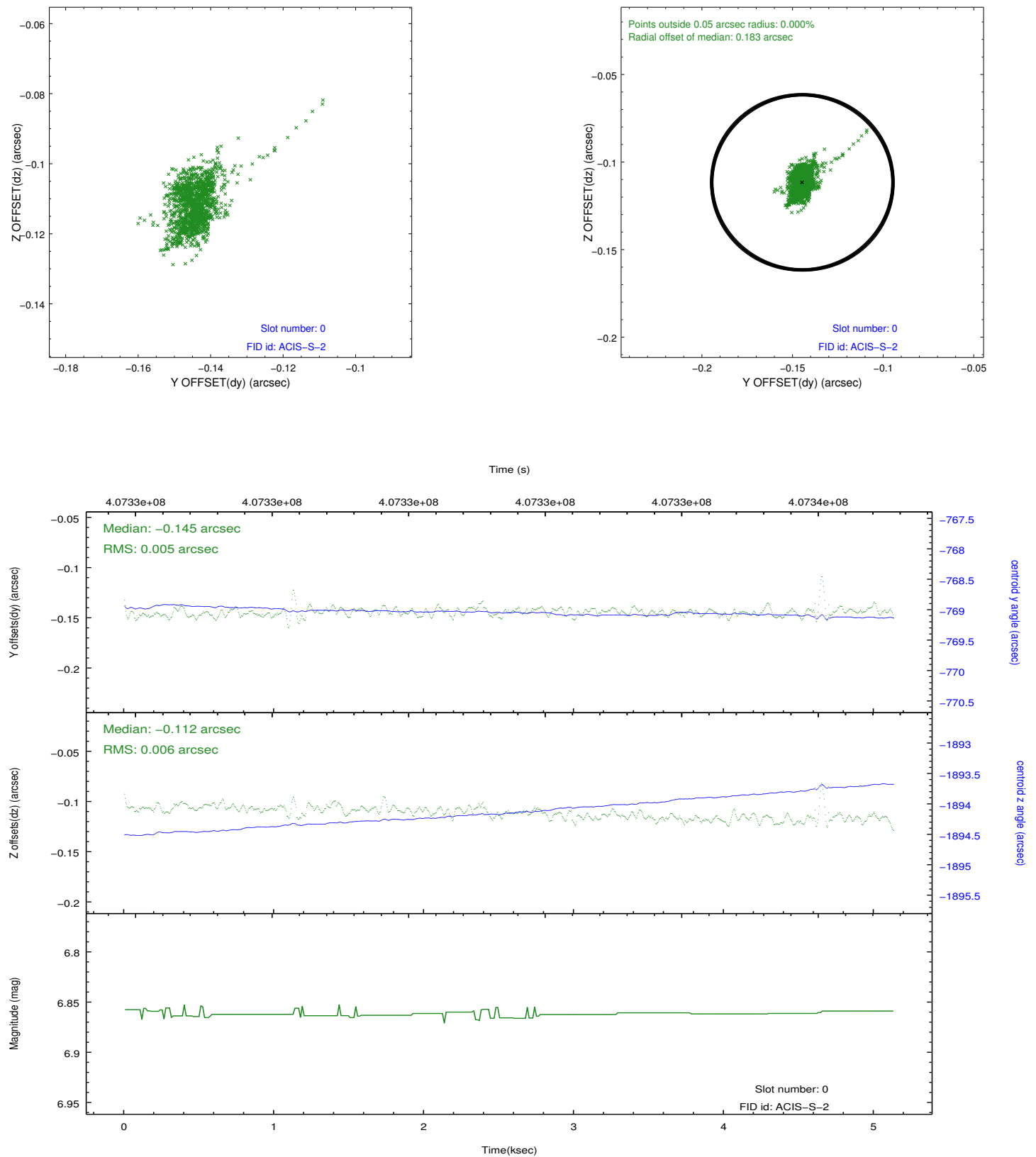


2.4.5 Slot 7

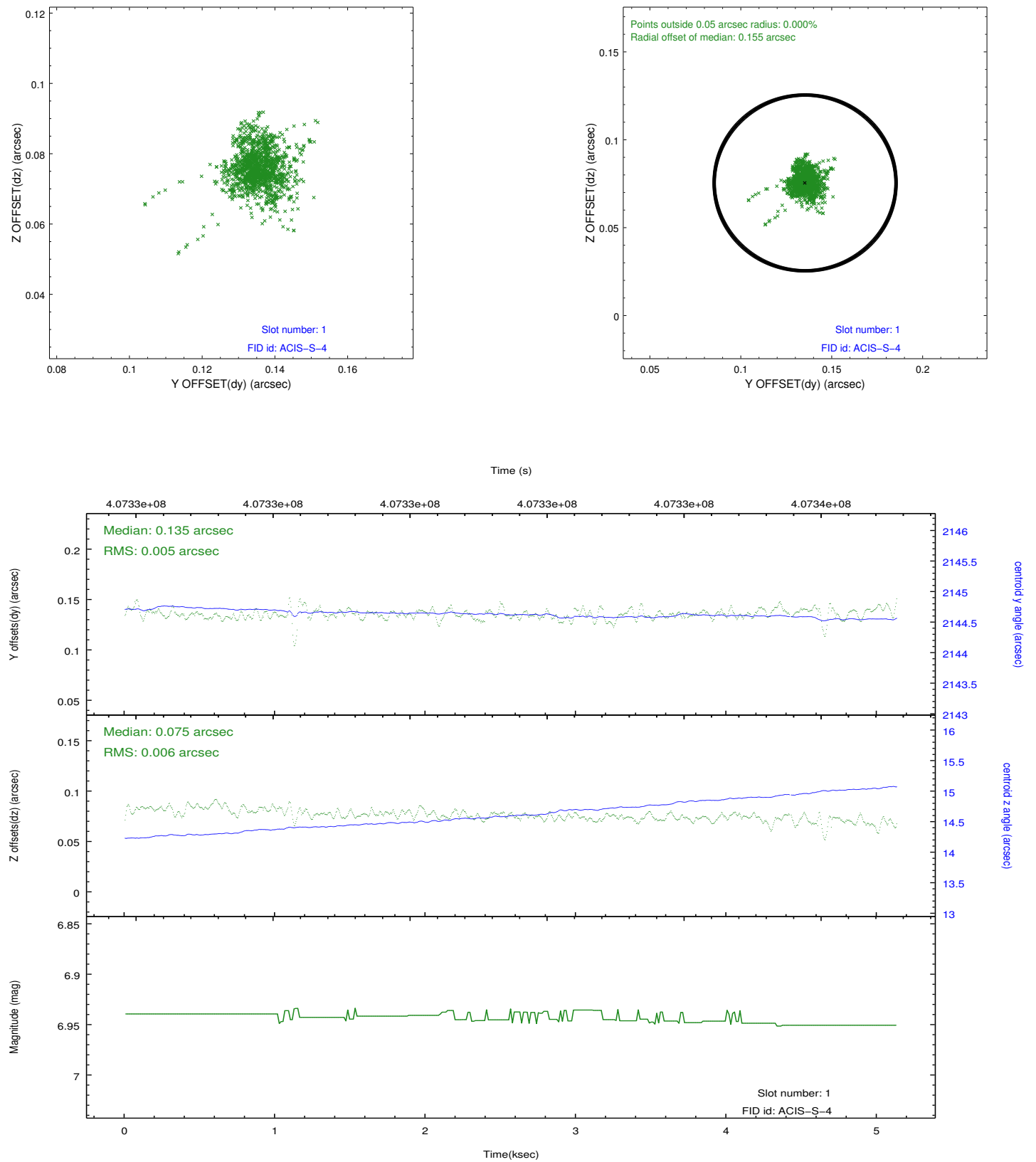


2.5 FID Slots

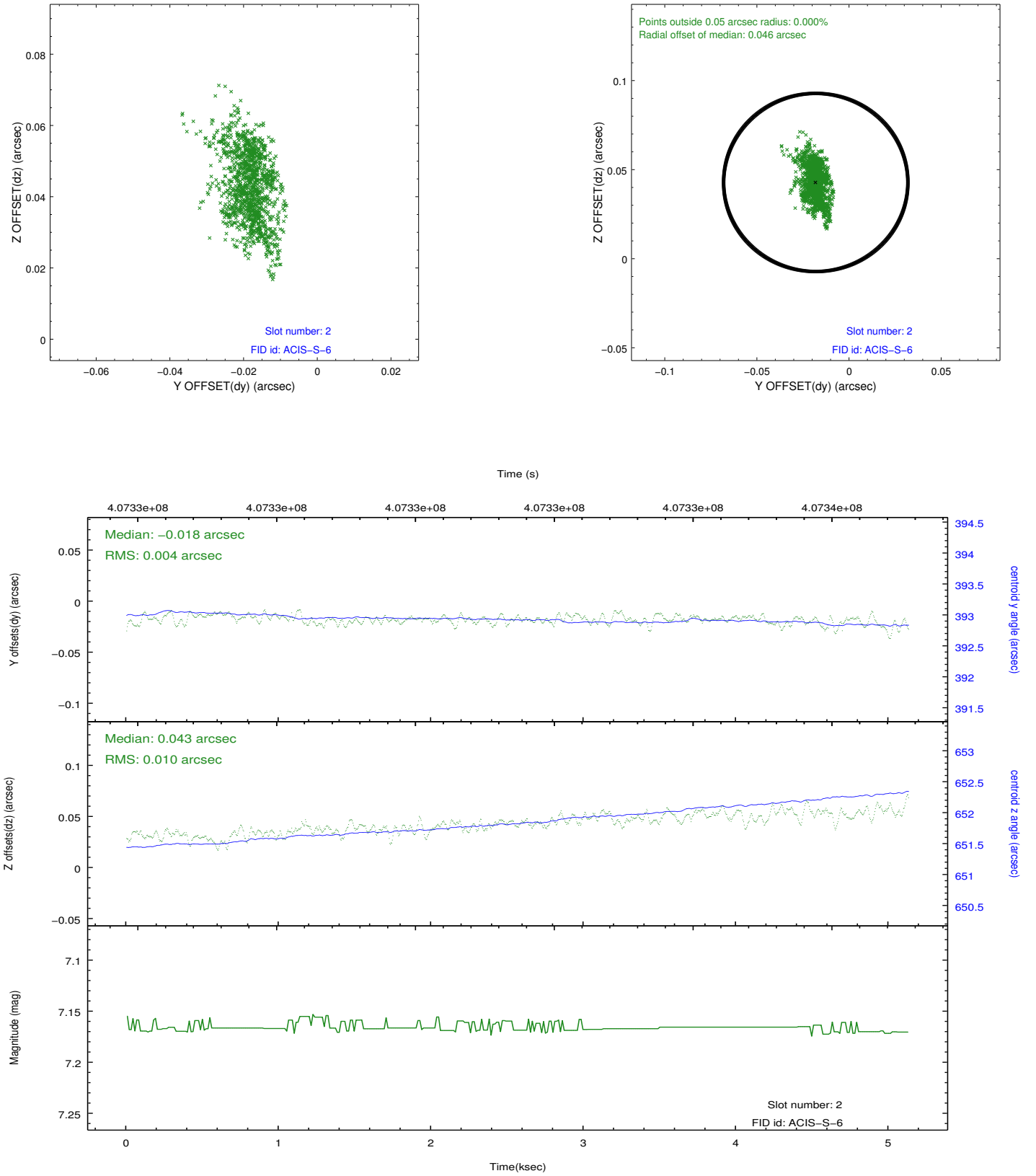
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5

A.2 Comments

Charge time is set to the scheduled time for this observation, although the ontime is significantly less due to telemetry saturation. Spacecraft dither is not enabled.