

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8217 - L2 Version 4
Chandra X-Ray Center

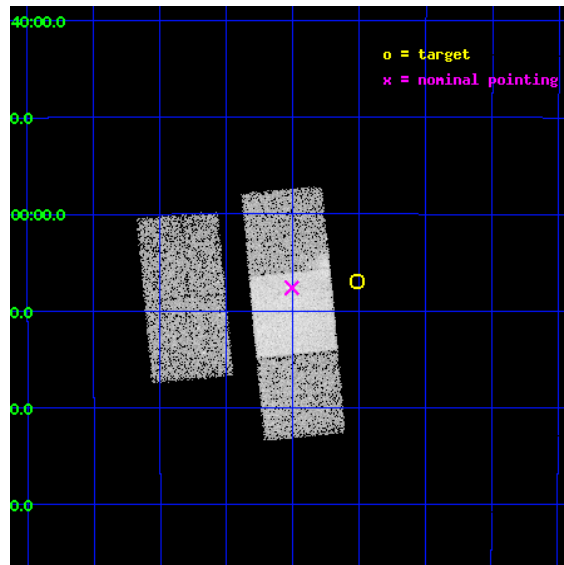
L2 Processing Date : Apr 20 2012

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1 Front

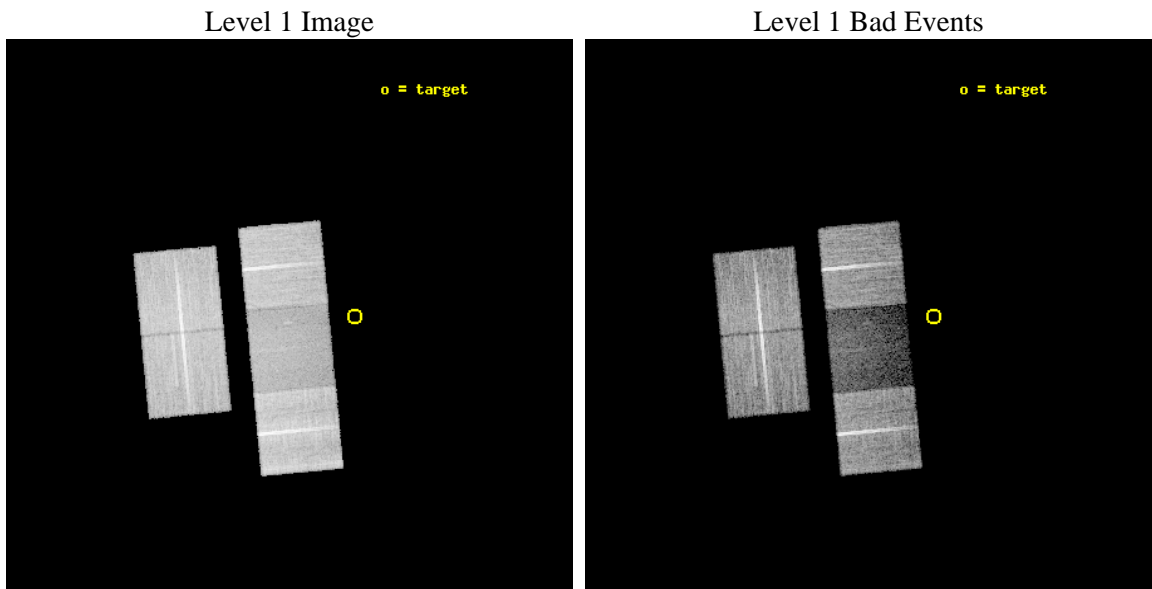
seq_num	100068	Sequence number
obs_id	8217	Observation id
title	X-Ray Observations of Jupiter in Support of the New Horizons Flyby	
observer	Dr. G. Gladstone	Principal investigator
object	Jupiter	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	256.129833	Observer's specified target RA [deg]
dec_targ	-22.115111	Observer's specified target Dec [deg]
ra_nom	256.25170238051	Nominal RA [deg]
dec_nom	-22.127065992626	Nominal Dec [deg]
roll_nom	84.561562375927	Nominal Roll [deg]
revision	4	Processing version of data
ontime	16882.600129843	Sum of GTIs [s]
livetime	16662.016530357	Livetime [s]
ontime2	16876.318149447	Sum of GTIs [s]
ontime3	16882.600129843	Sum of GTIs [s]
ontime6	16879.459139585	Sum of GTIs [s]
ontime7	16882.600129843	Sum of GTIs [s]
ontime8	16879.459119737	Sum of GTIs [s]
l2events	68411	Number of level 2 events



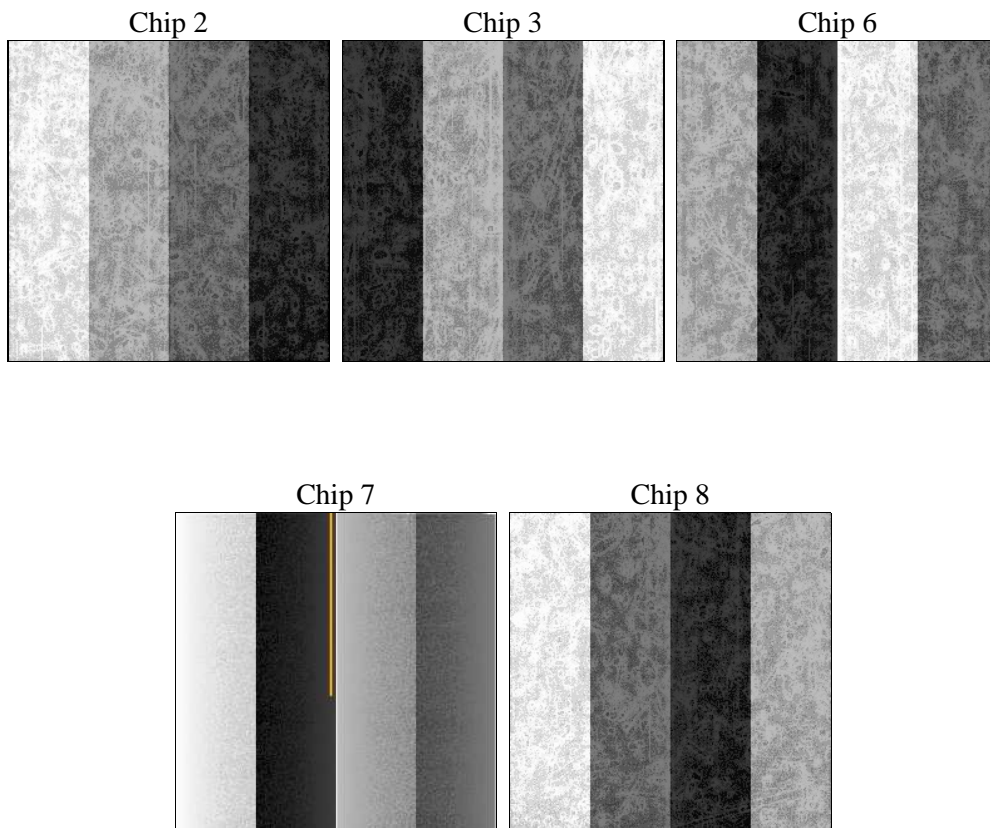
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	16882.600129843	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	16876.318149447	Sum of GTIs [s]
date	2012-04-20T14:54:42	Date and time of file creation	ontime3	16882.600129843	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	16879.459139585	Sum of GTIs [s]
			ontime7	16882.600129843	Sum of GTIs [s]
			ontime8	16879.459119737	Sum of GTIs [s]
			l1events	547605	Number of level 1 events

2.1.4 Events

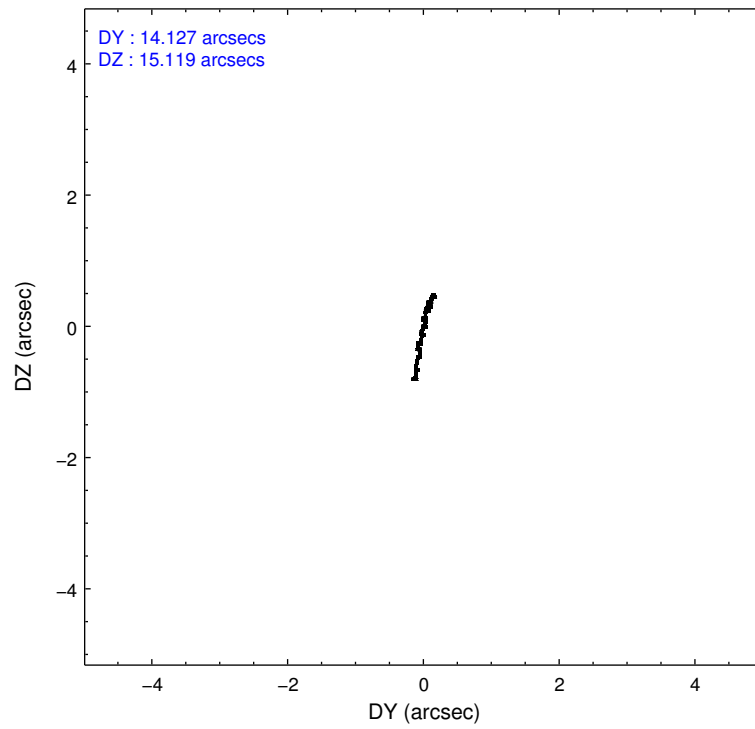
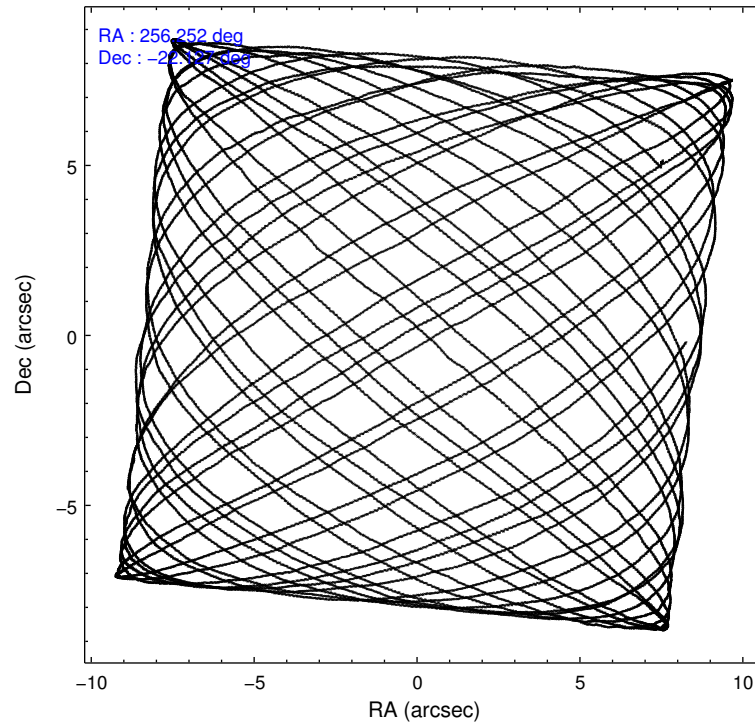
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	121727	109765	115697	65521	134895
rejected events	112106	100577	104539	30187	100940
rejected %	92%	91%	90%	46%	74%

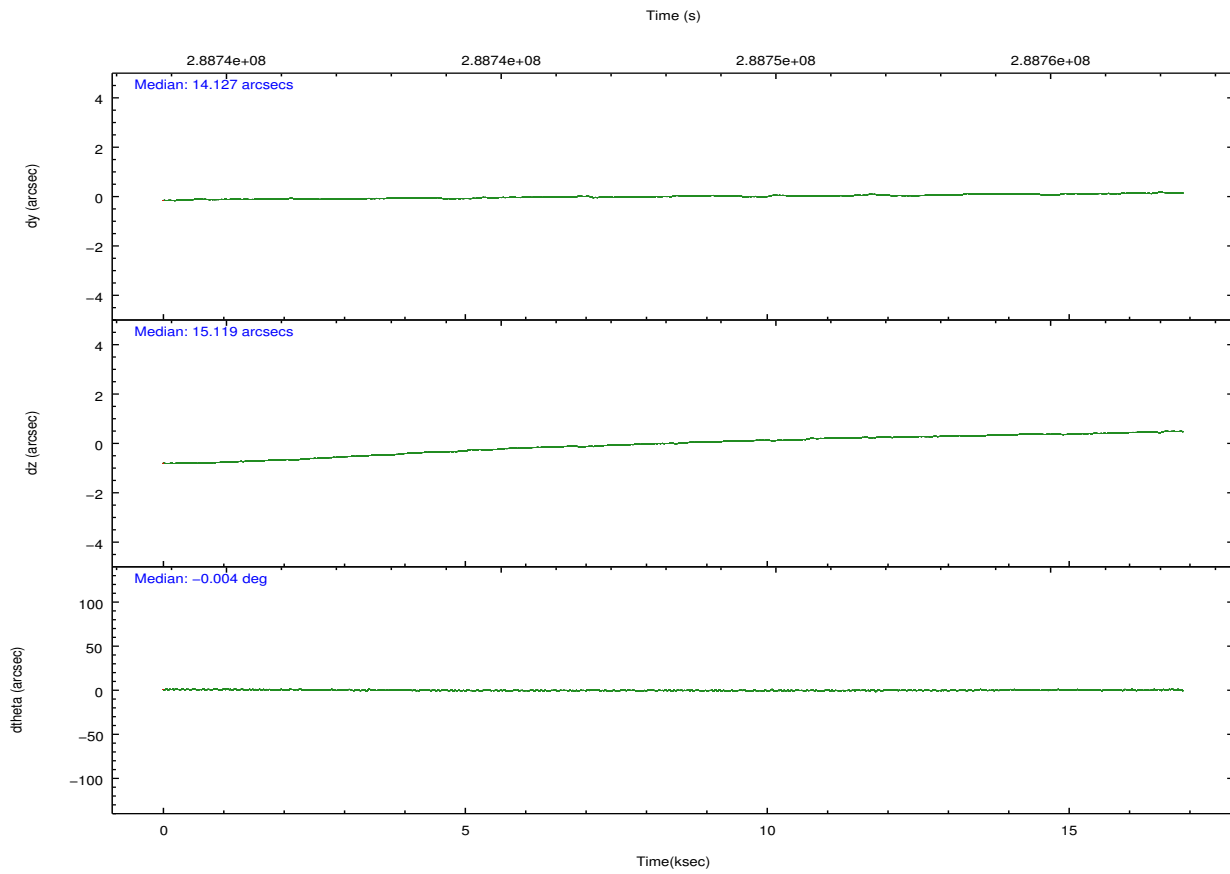
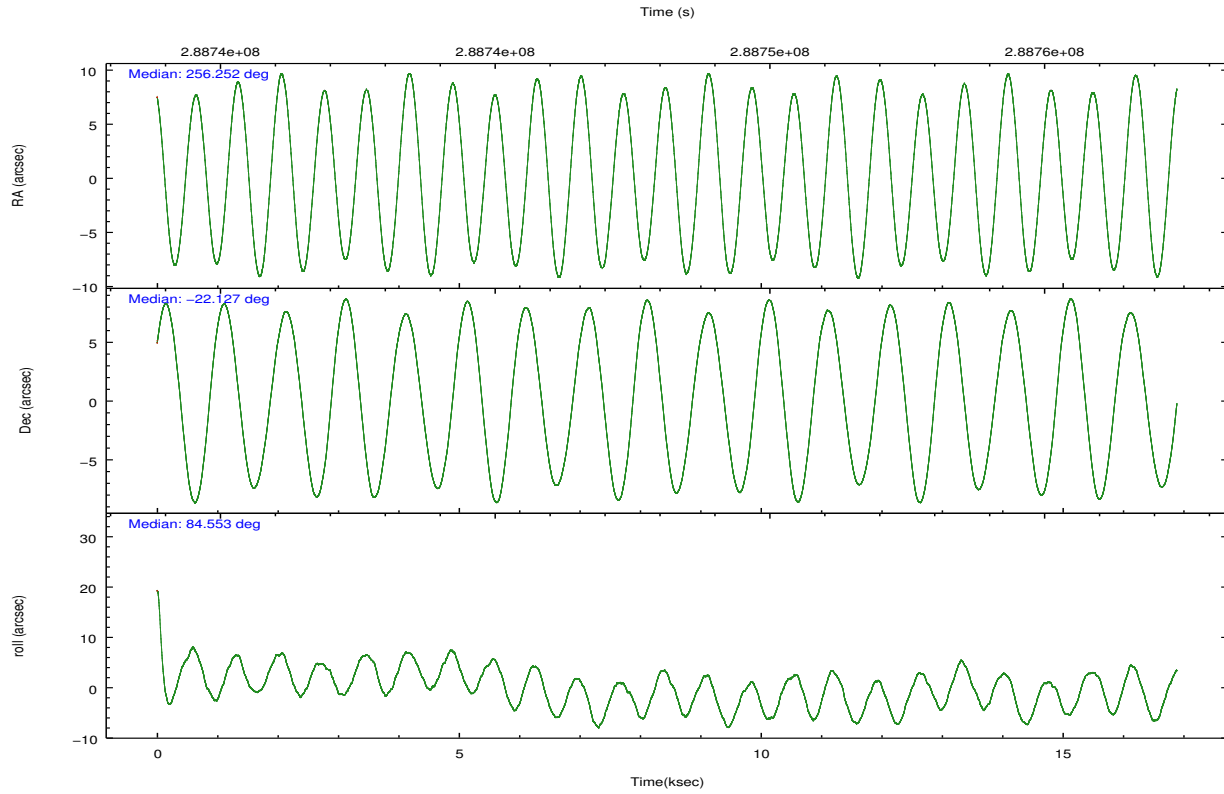
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4067	3866	5129	4104	9626
	3%	3%	4%	6%	7%
grade 1 events	56	47	54	118	111
	0%	0%	0%	0%	0%
grade 2 events	2270	1981	2319	8614	8192
	1%	1%	2%	13%	6%
grade 3 events	1035	1028	1181	3196	3648
	0%	0%	1%	4%	2%
grade 4 events	1019	1047	1121	3201	3337
	0%	0%	0%	4%	2%
grade 5 events	1814	2253	2202	6642	3980
	1%	2%	1%	10%	2%
grade 6 events	1355	1392	1559	16659	9562
	1%	1%	1%	25%	7%
grade 7 events	110111	98151	102132	22987	96439
	90%	89%	88%	35%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	256.264352	256.251702380514	Subarray requested	NONE	NONE
[deg] Pointing Dec	-22.151780	-22.12706599262624	Alternating exposures requested	N	N
[deg] Pointing Roll	84.409703	84.56156237592737	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	288739865.184000	288739865.184000			
[s] Window stop time (MET)	288757865.184000	288757865.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	288739864.184000	288739460.78007			
Observation start date	2007-02-24T21:29:59	2007-02-24T21:24:20			
[s] Observation end time (MET)	288756564.184000	288757040.04341			
Observation end date	2007-02-25T02:08:19	2007-02-25T02:17:20			
Read mode	TIMED	TIMED			

2.3 Aspect



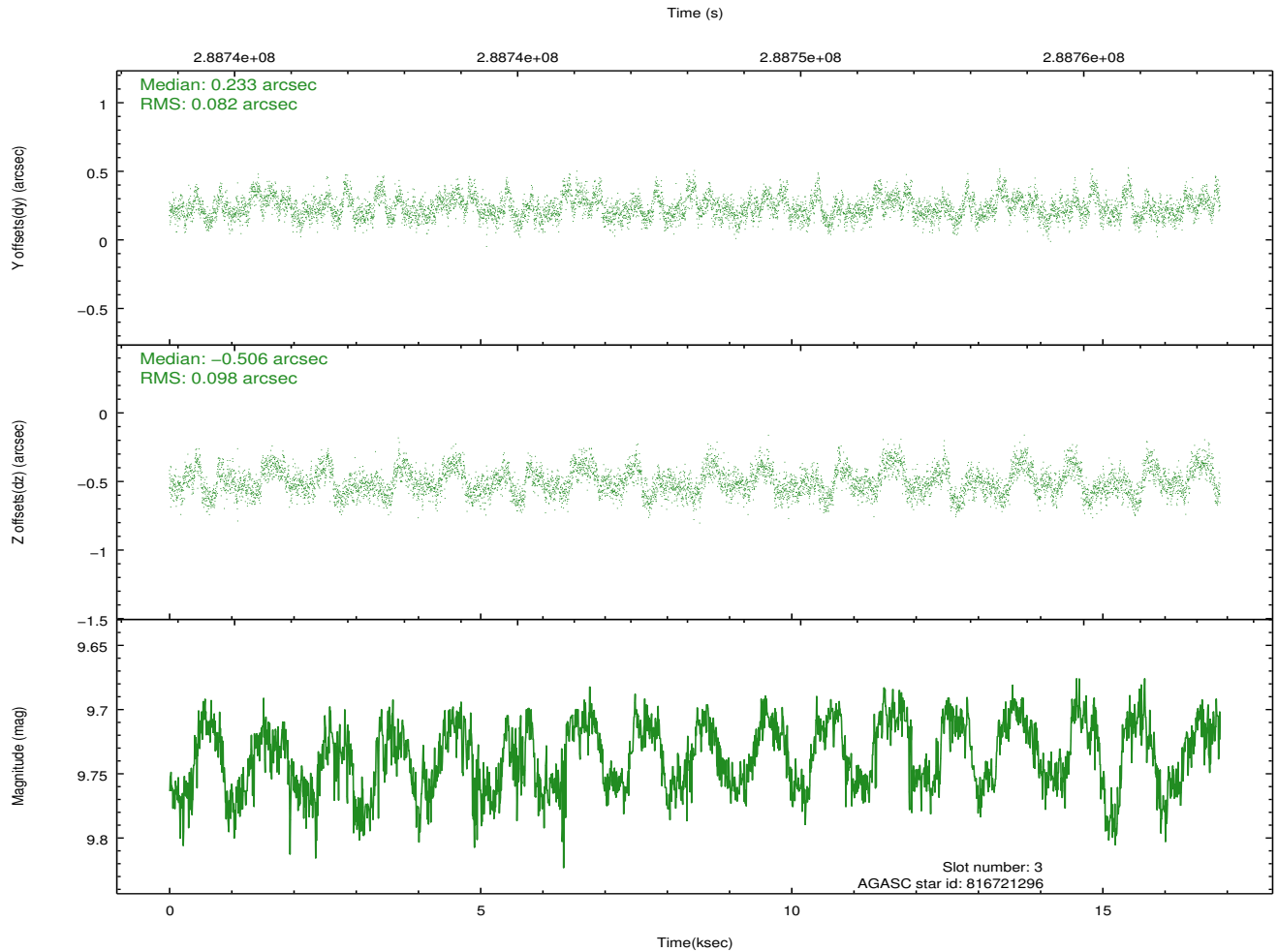
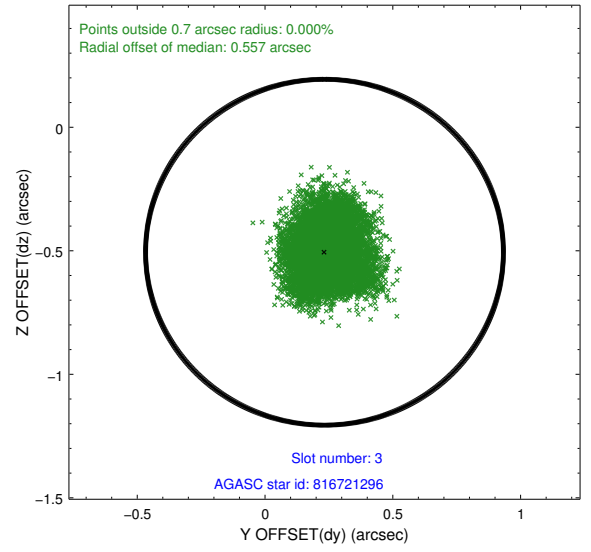
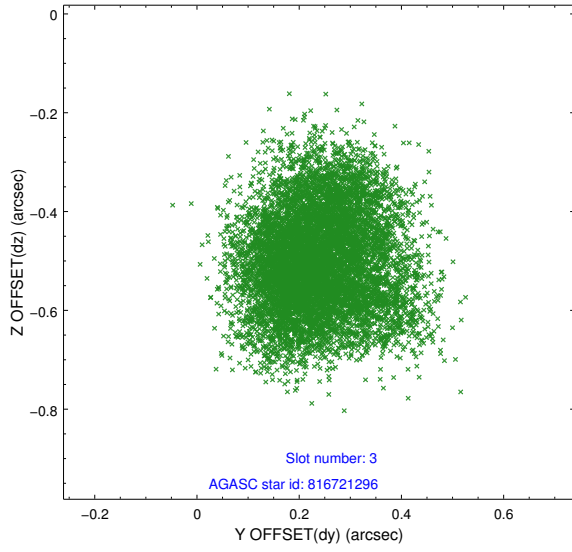


Slot Statistics

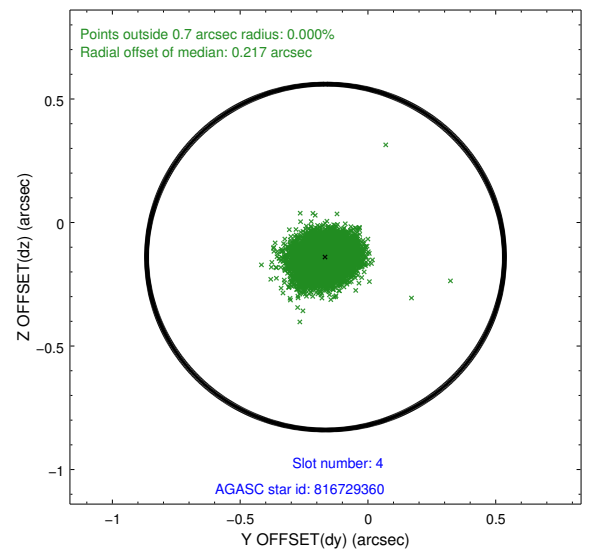
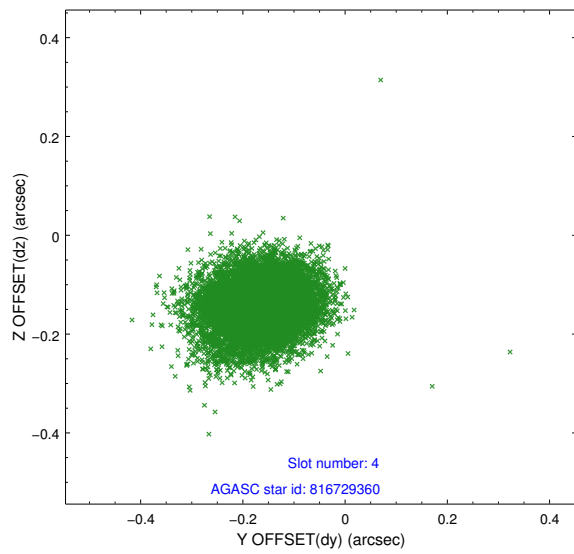
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4120	-0.077	-0.033	0.010	0.022	0.000000	0.000000	-767.14	-1736.42
1	FID	ACIS-S-4	7.20	4120	0.208	0.046	0.007	0.014	0.000000	0.000000	2146.29	171.90
2	FID	ACIS-S-5	7.22	4120	-0.162	-0.005	0.010	0.020	0.000000	0.000000	-1819.76	165.78
3	GUIDE	816721296	9.74	8231	0.233	-0.506	0.139	0.216	255.576644	-22.316578	-818.89	2220.85
4	GUIDE	816729360	9.05	8236	-0.166	-0.140	0.083	0.133	255.949526	-21.526070	2137.61	1269.23
5	GUIDE	818413816	8.13	8235	0.151	0.283	0.092	0.155	256.942894	-22.495300	-1015.50	-2366.74
6	GUIDE	818415712	9.01	8231	-0.224	0.351	0.073	0.122	256.853342	-21.761224	1587.47	-1823.00
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

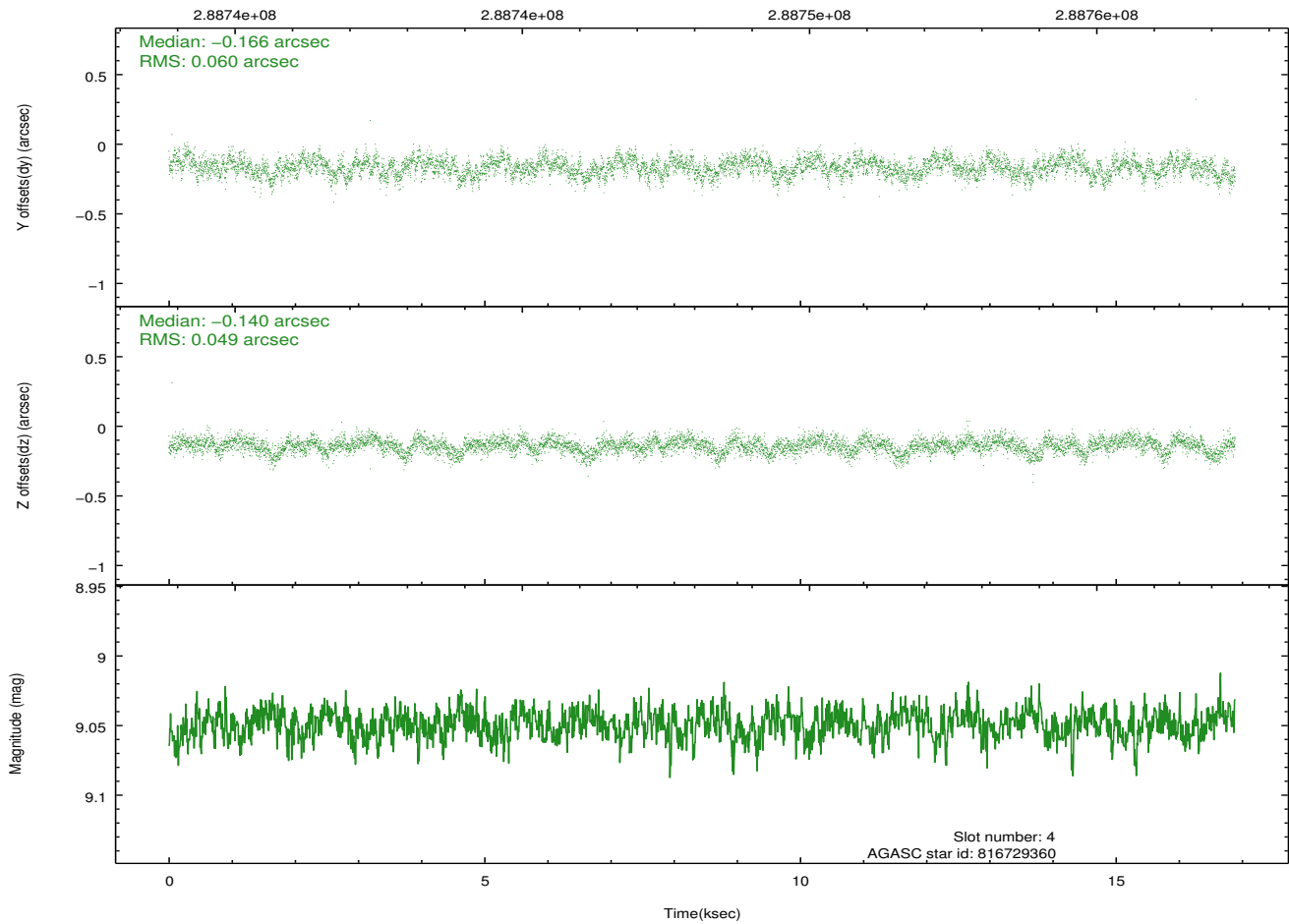
2.4.1 Slot 3



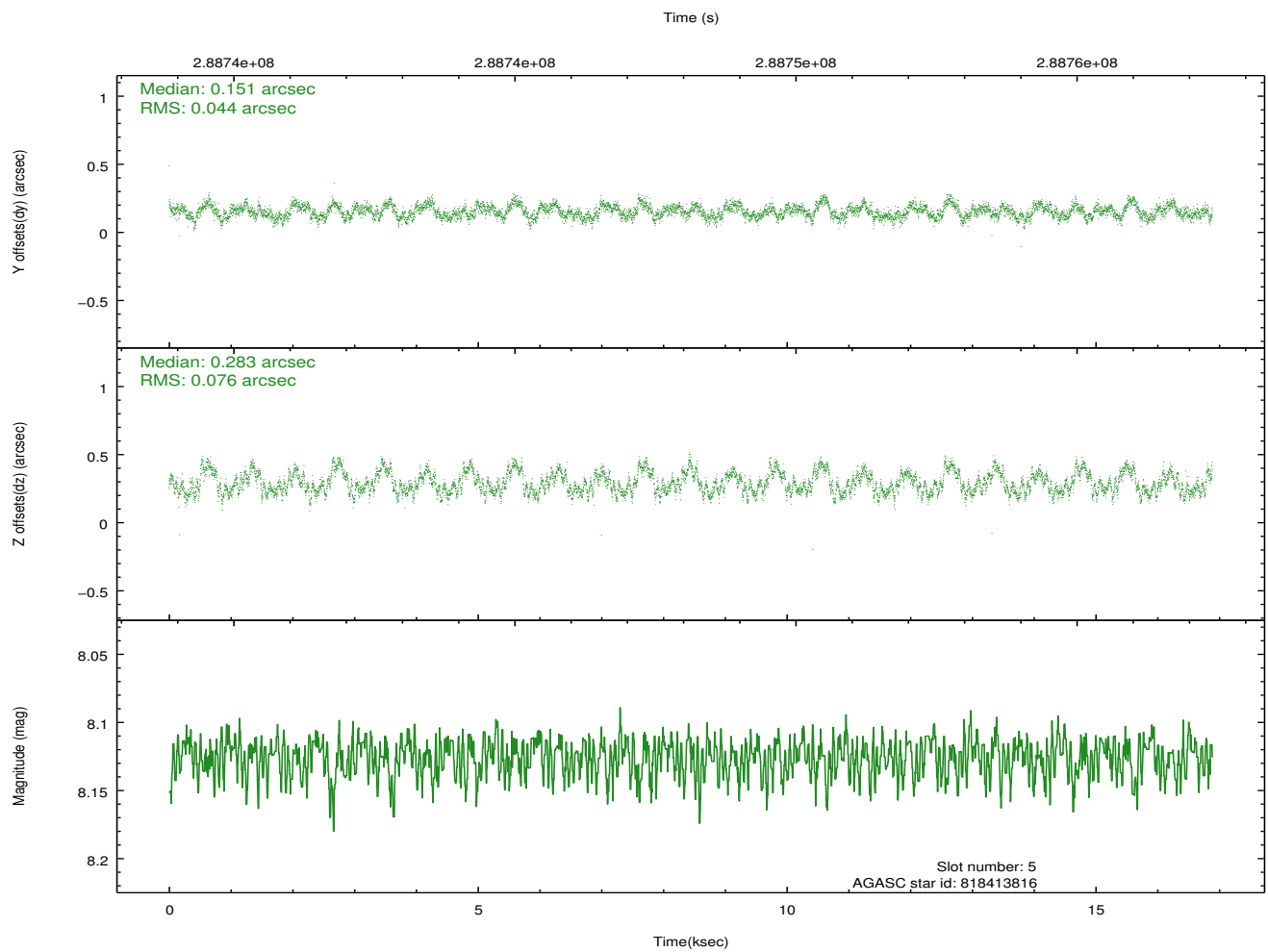
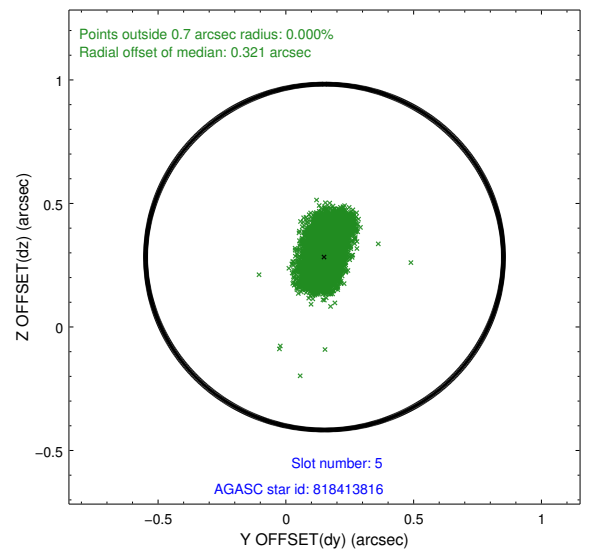
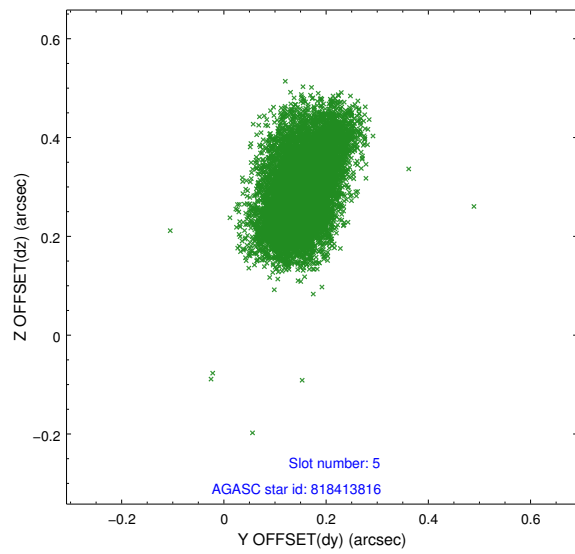
2.4.2 Slot 4



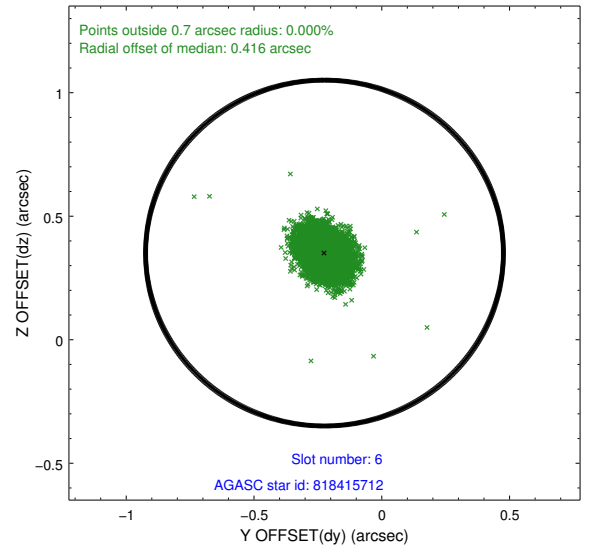
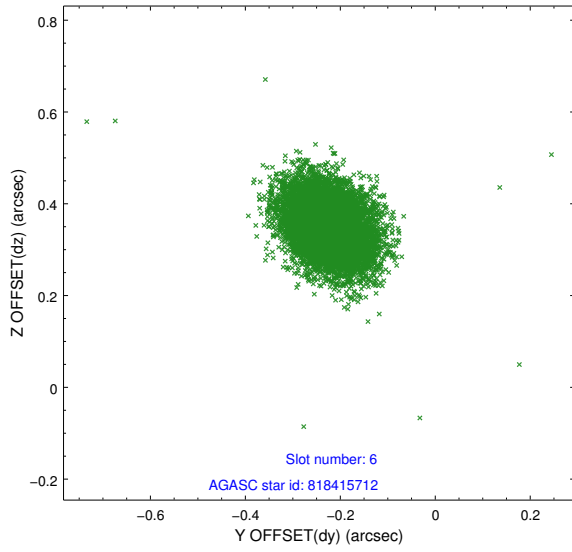
Time (s)



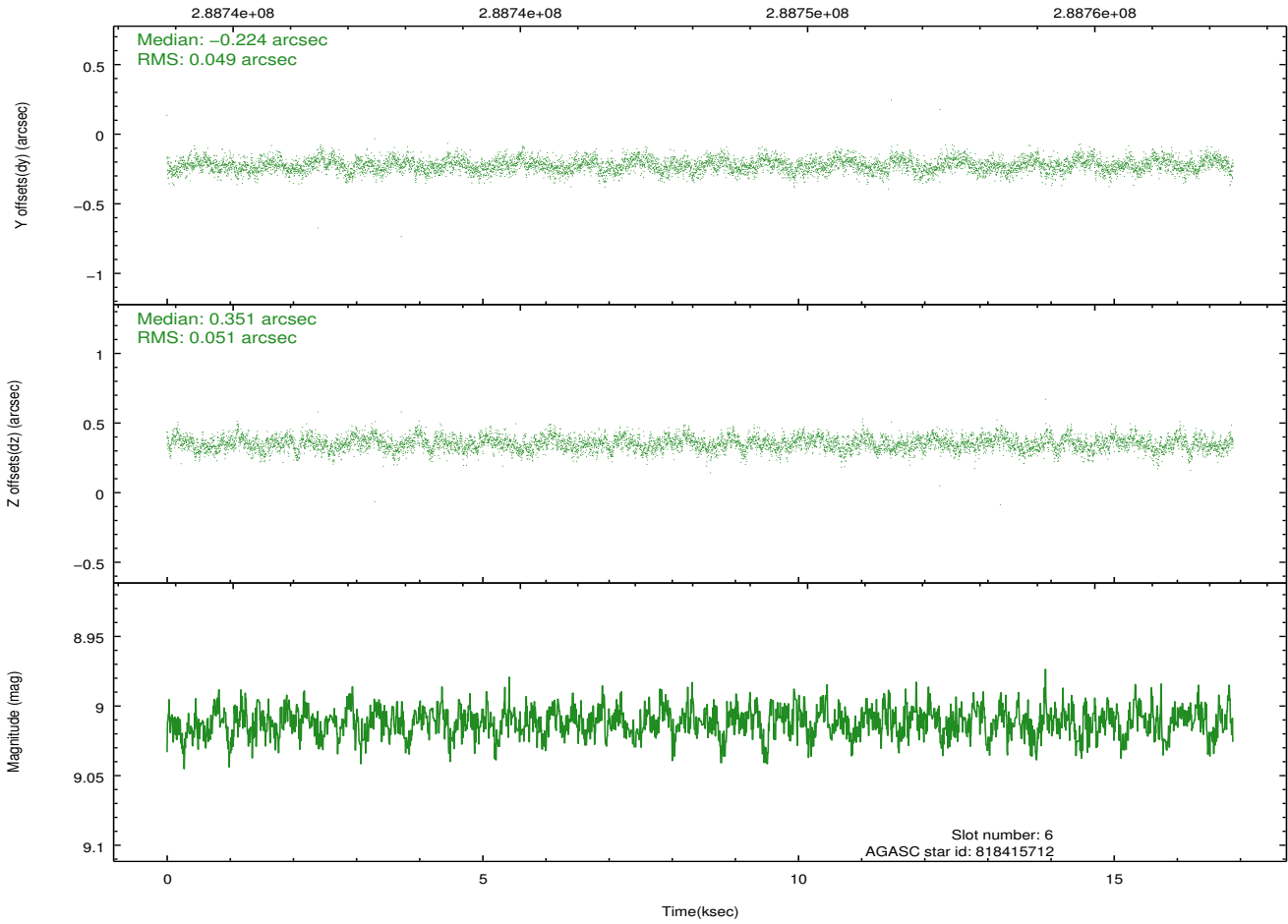
2.4.3 Slot 5



2.4.4 Slot 6

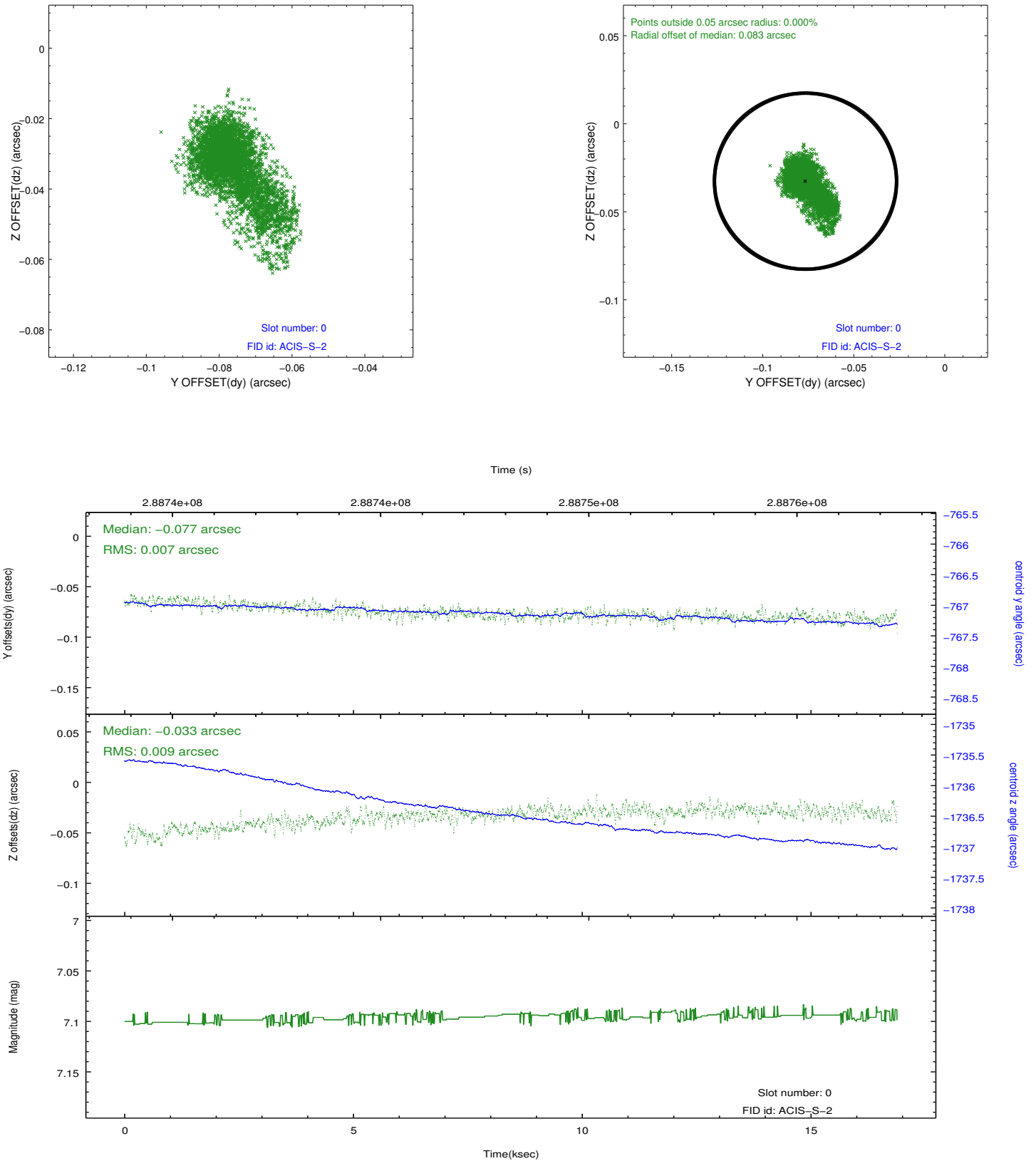


Time (s)

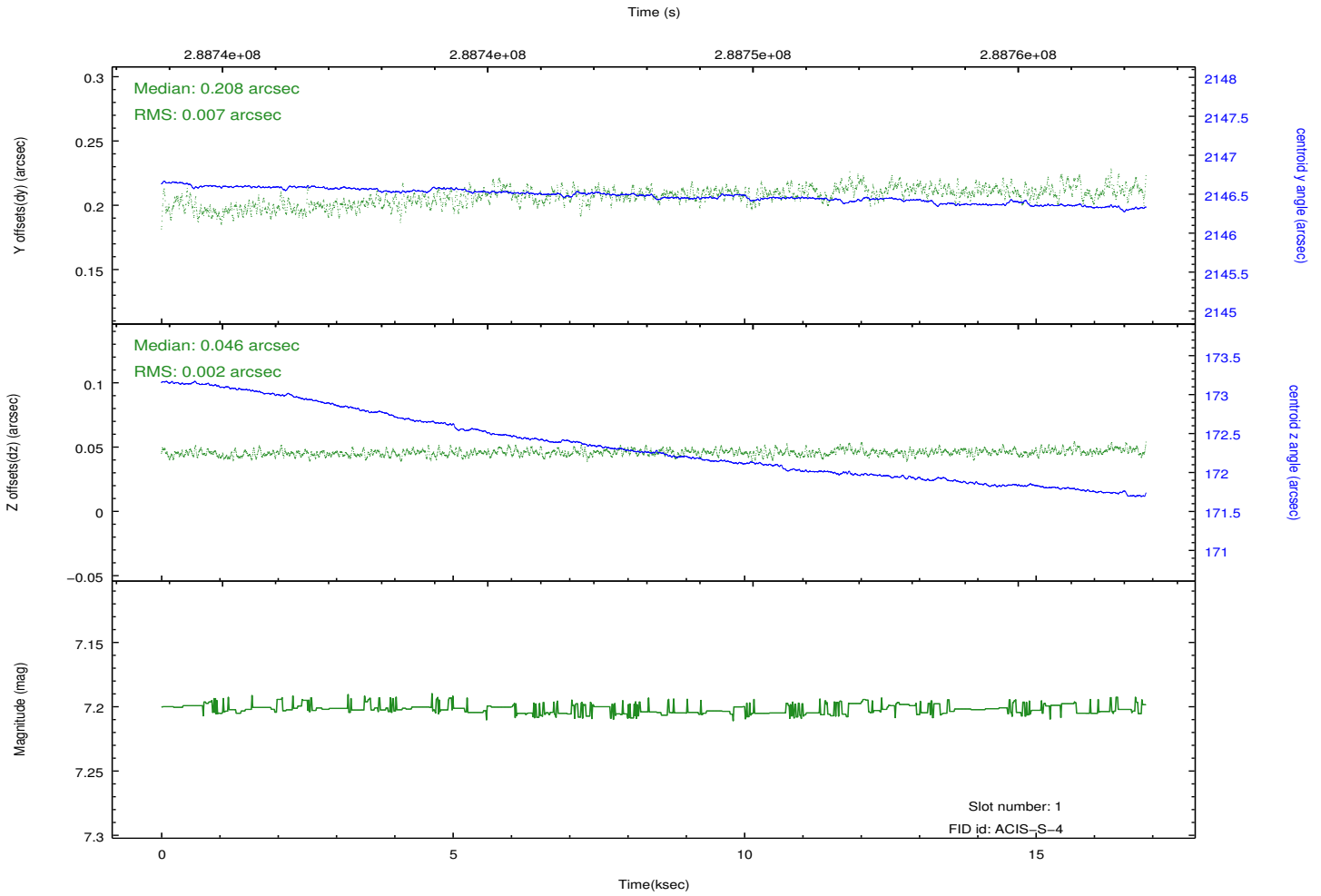
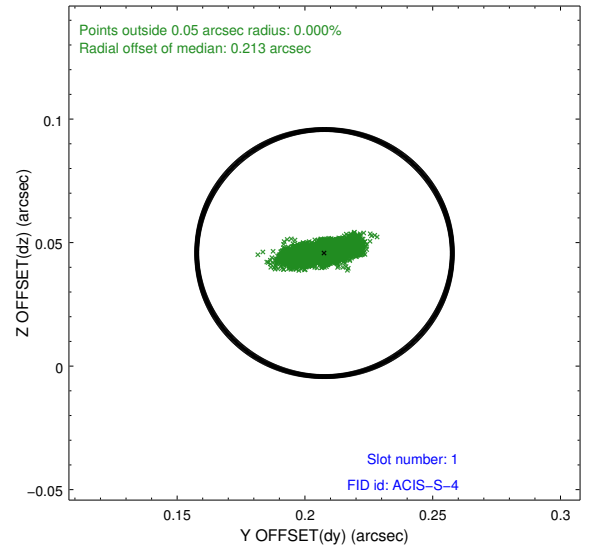
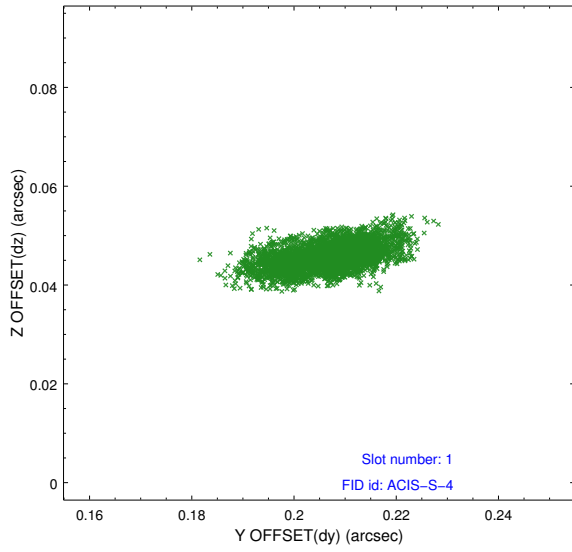


2.5 FID Slots

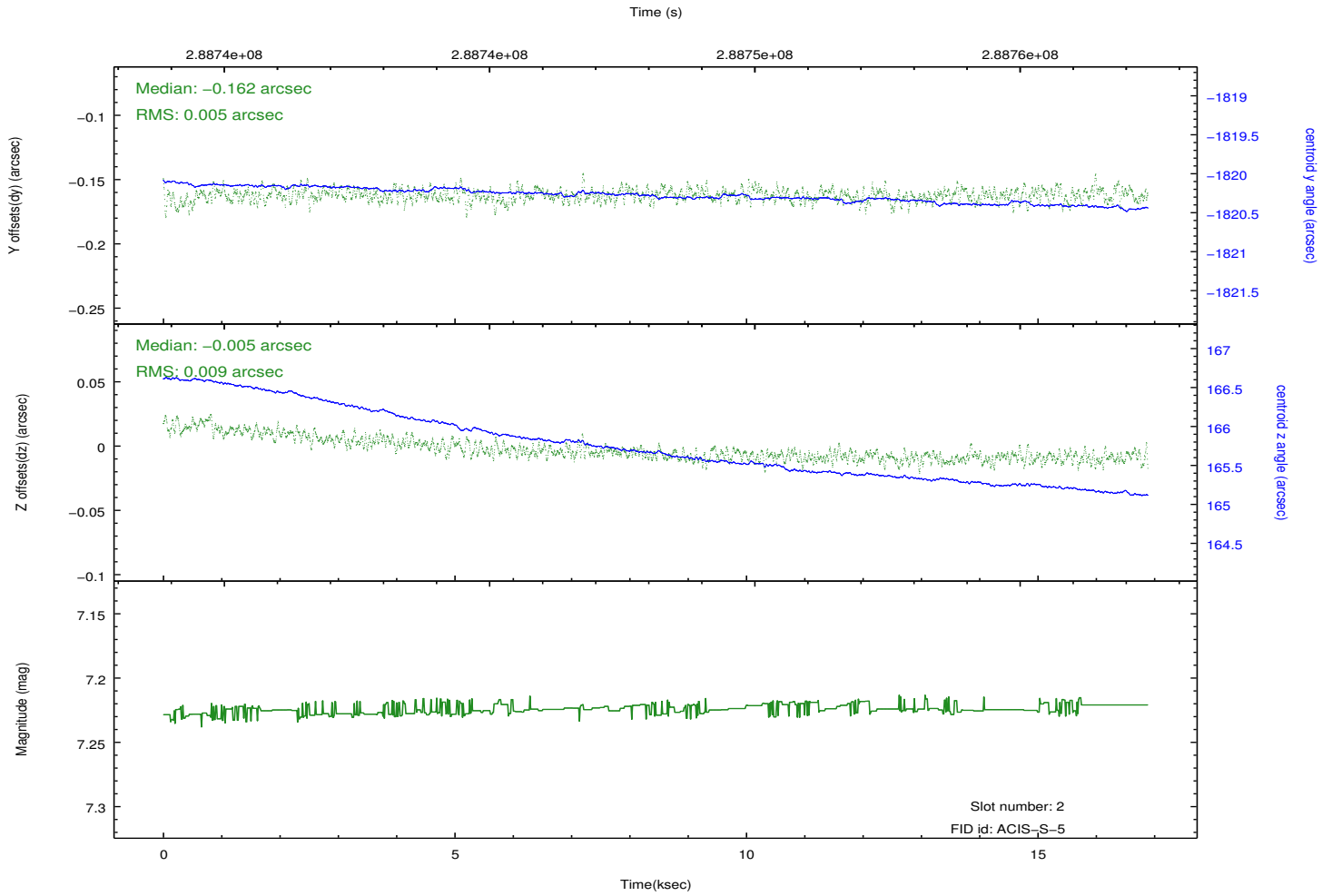
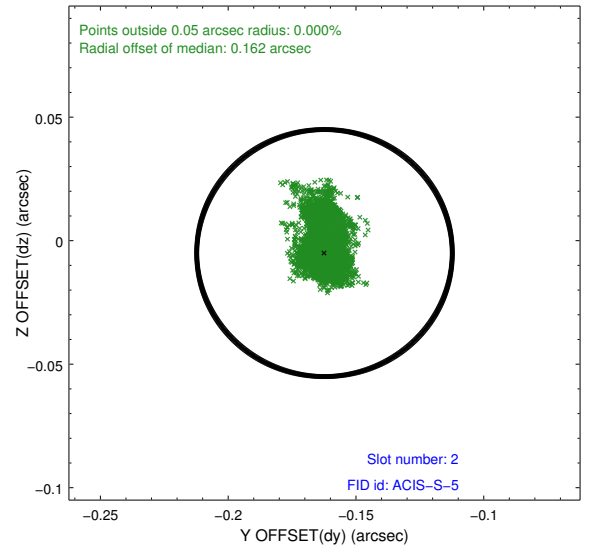
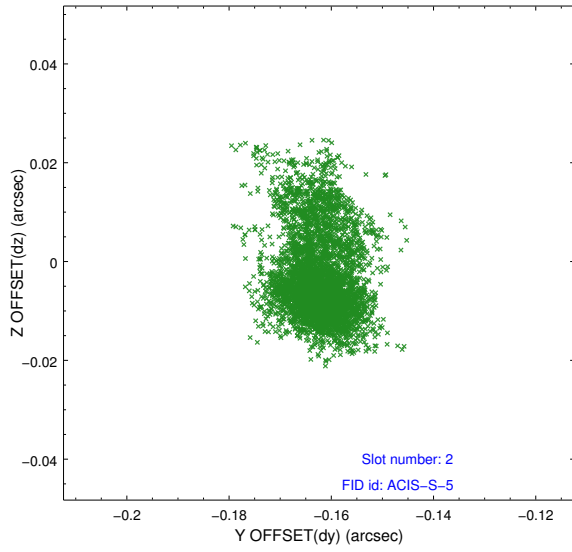
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.8826001

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.