

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19935 - L2 Version 1
Chandra X-Ray Center

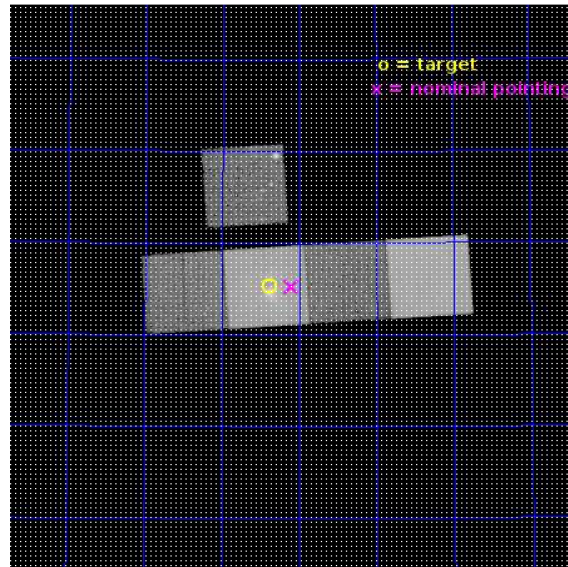
L2 Processing Date : Jun 5 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

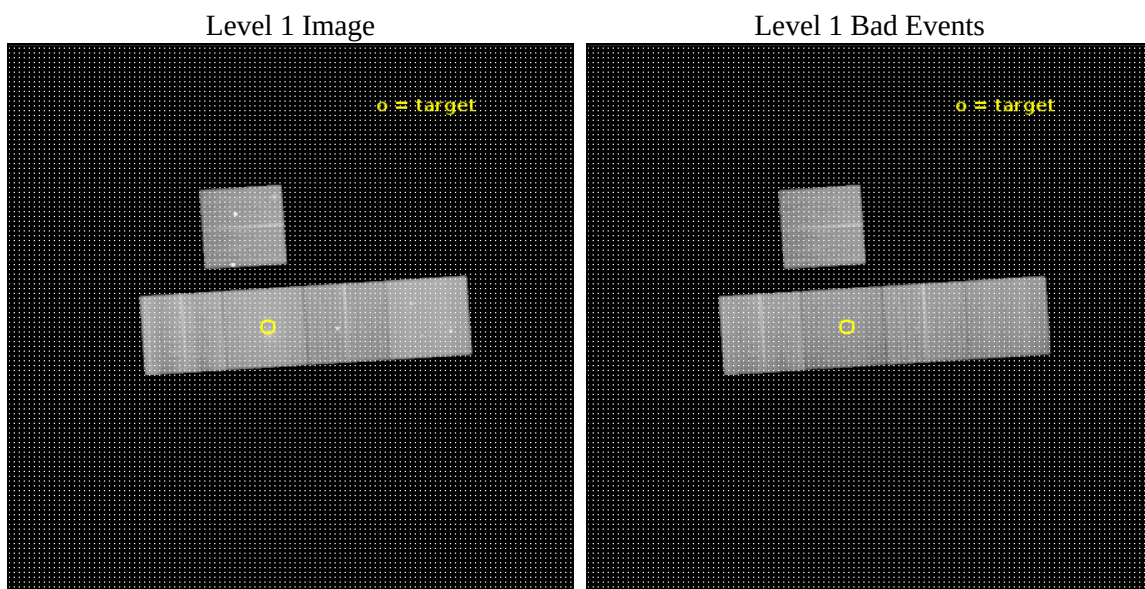
seq_num	801656	Sequence number
obs_id	19935	Observation id
title	Cavities, shocks and stripping in a high-velocity group-group merger: NGC 6338	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	NGC 6338	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.844583	Observer's specified target RA [deg]
dec_targ	57.422139	Observer's specified target Dec [deg]
ra_nom	258.77550973776	Nominal RA [deg]
dec_nom	57.420491529258	Nominal Dec [deg]
roll_nom	176.21483160064	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35550.274533629	Sum of GTIs [s]
livetime	35085.784025116	Livetime [s]
ontime3	35518.741311669	Sum of GTIs [s]
ontime5	35550.233493686	Sum of GTIs [s]
ontime6	35550.192453623	Sum of GTIs [s]
ontime7	35550.274533629	Sum of GTIs [s]
ontime8	35550.110373616	Sum of GTIs [s]
l2events	450117	Number of level 2 events



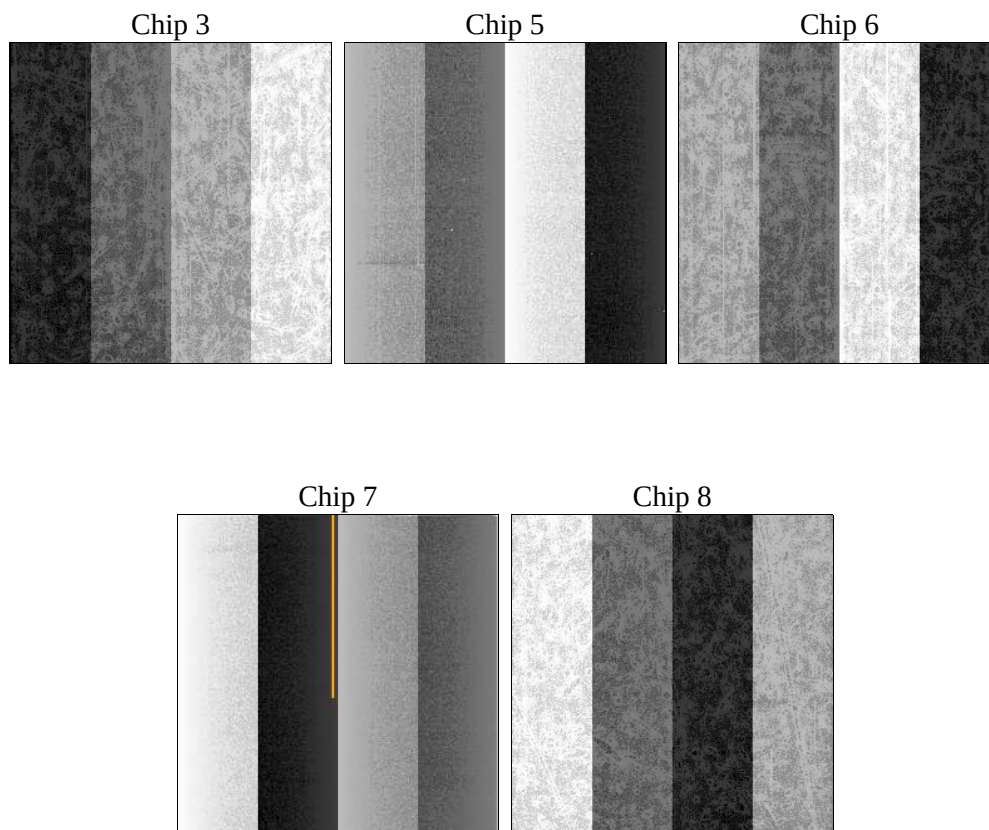
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	35550.274533629	Sum of GTIs [s]
caldsver	4.7.4	 	ontime3	35518.741311669	Sum of GTIs [s]
date	2017-06-06T01:14:11	Date and time of file creation	ontime5	35550.233493686	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	35550.192453623	Sum of GTIs [s]
			ontime7	35550.274533629	Sum of GTIs [s]
			ontime8	35550.110373616	Sum of GTIs [s]
			l1events	1652145	Number of level 1 events

2.1.4 Events

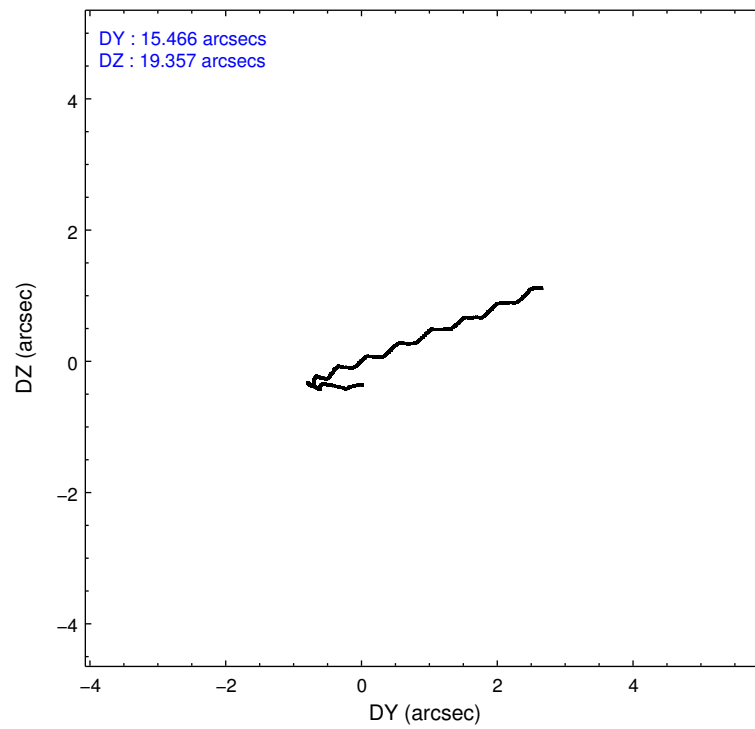
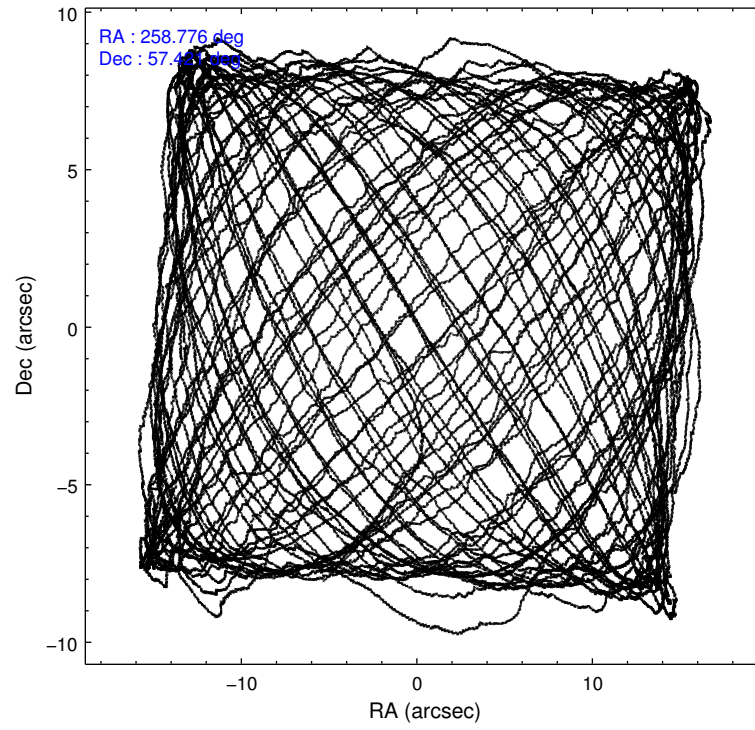
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	271108	403618	270685	366112	340622	grade 0 events	34205	15954	15394	23009	27572
rejected events	219110	208124	235254	185248	247494		12%	3%	5%	6%	8%
rejected %	80%	51%	86%	50%	72%	grade 1 events	255	909	163	457	314
							0%	0%	0%	0%	0%
						grade 2 events	6129	61245	7263	40926	22234
							2%	15%	2%	11%	6%
						grade 3 events	3046	6278	2947	15641	9675
							1%	1%	1%	4%	2%
						grade 4 events	2940	5874	2946	15391	9090
							1%	1%	1%	4%	2%
						grade 5 events	11973	28556	12198	32229	17929
							4%	7%	4%	8%	5%
						grade 6 events	5685	106174	6892	85927	24577
							2%	26%	2%	23%	7%
						grade 7 events	206875	178628	222882	152532	229231
							76%	44%	82%	41%	67%

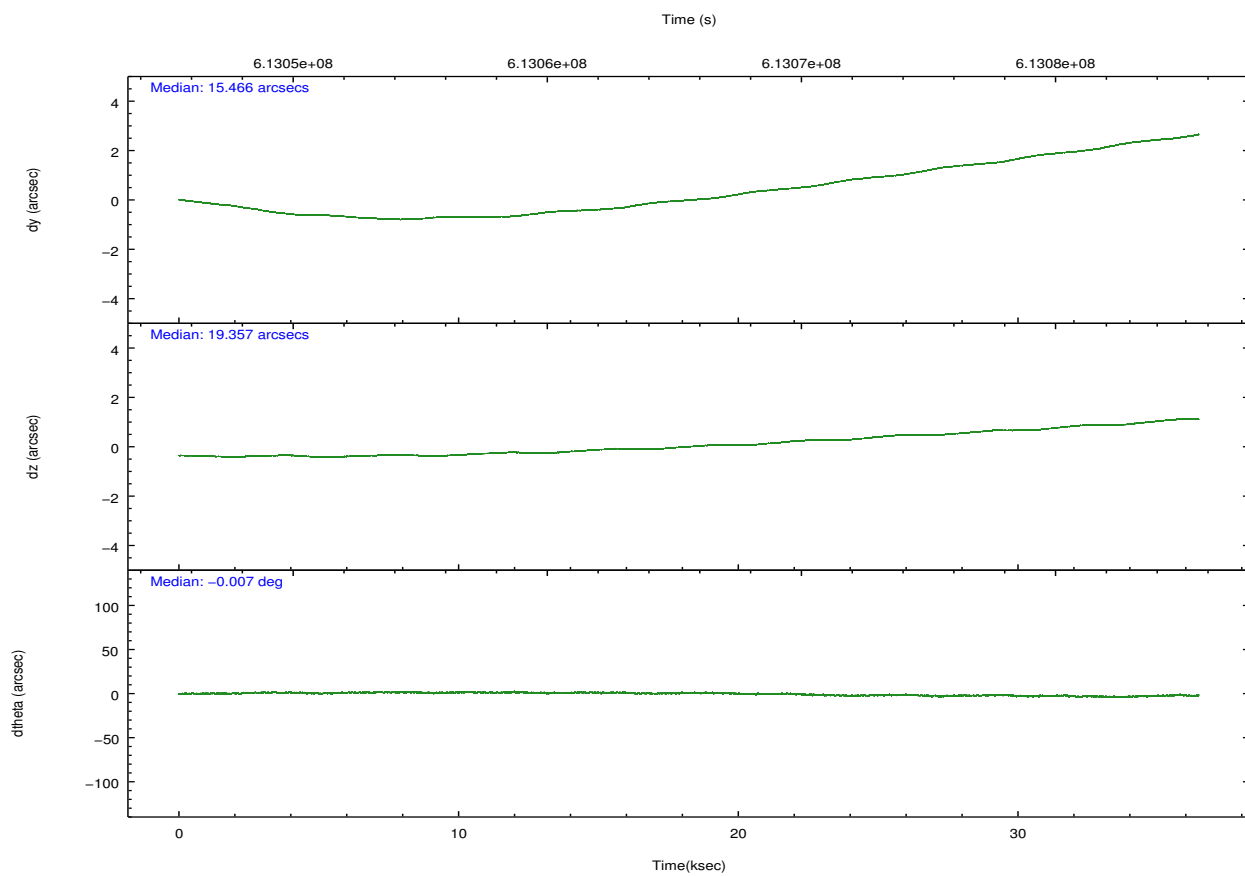
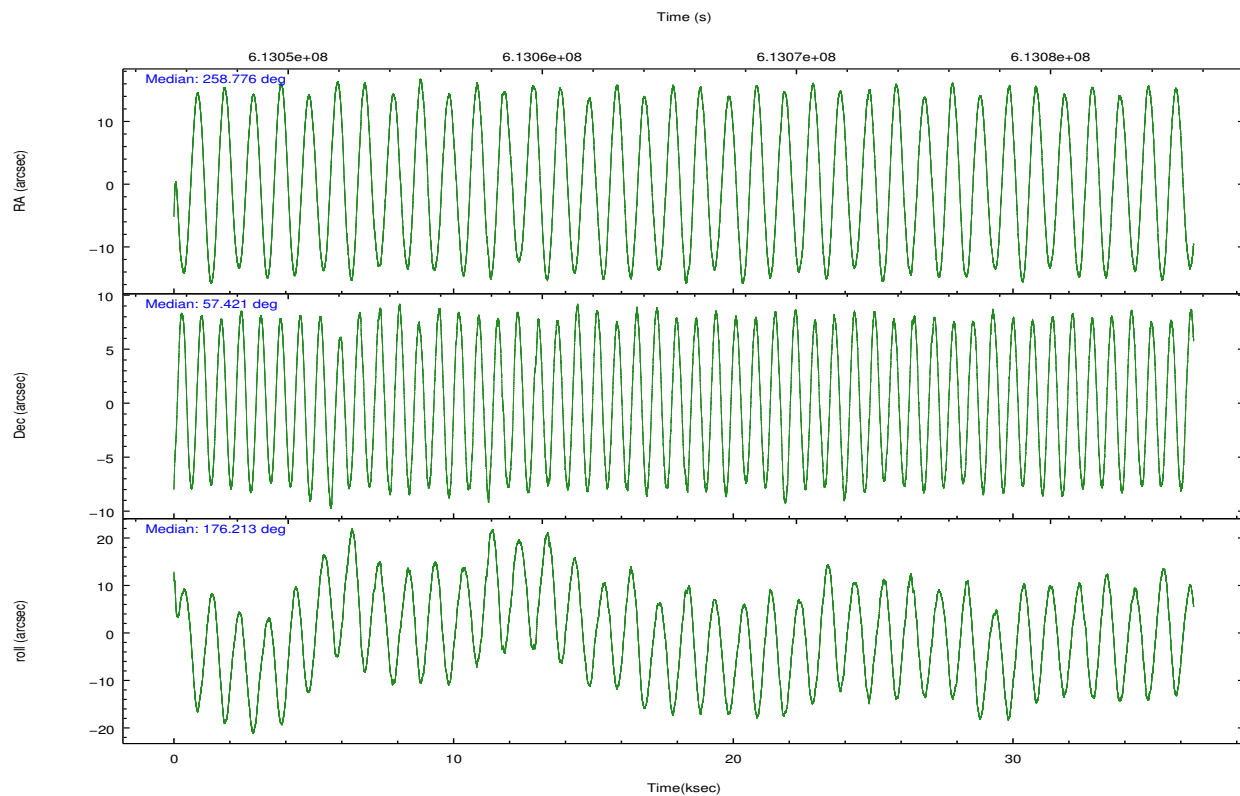
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	258.820972	258.7755097377582
[deg] Pointing Dec	57.432907	57.4204915292582
[deg] Pointing Roll	176.019889	176.2148316006437
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	613048286.184000	613046528.4301701
Observation start date	2017-06-05T11:10:17	2017-06-05T10:42:08
[s] Observation end time (MET)	613083786.184000	613084583.09489
Observation end date	2017-06-05T21:01:57	2017-06-05T21:16:23
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



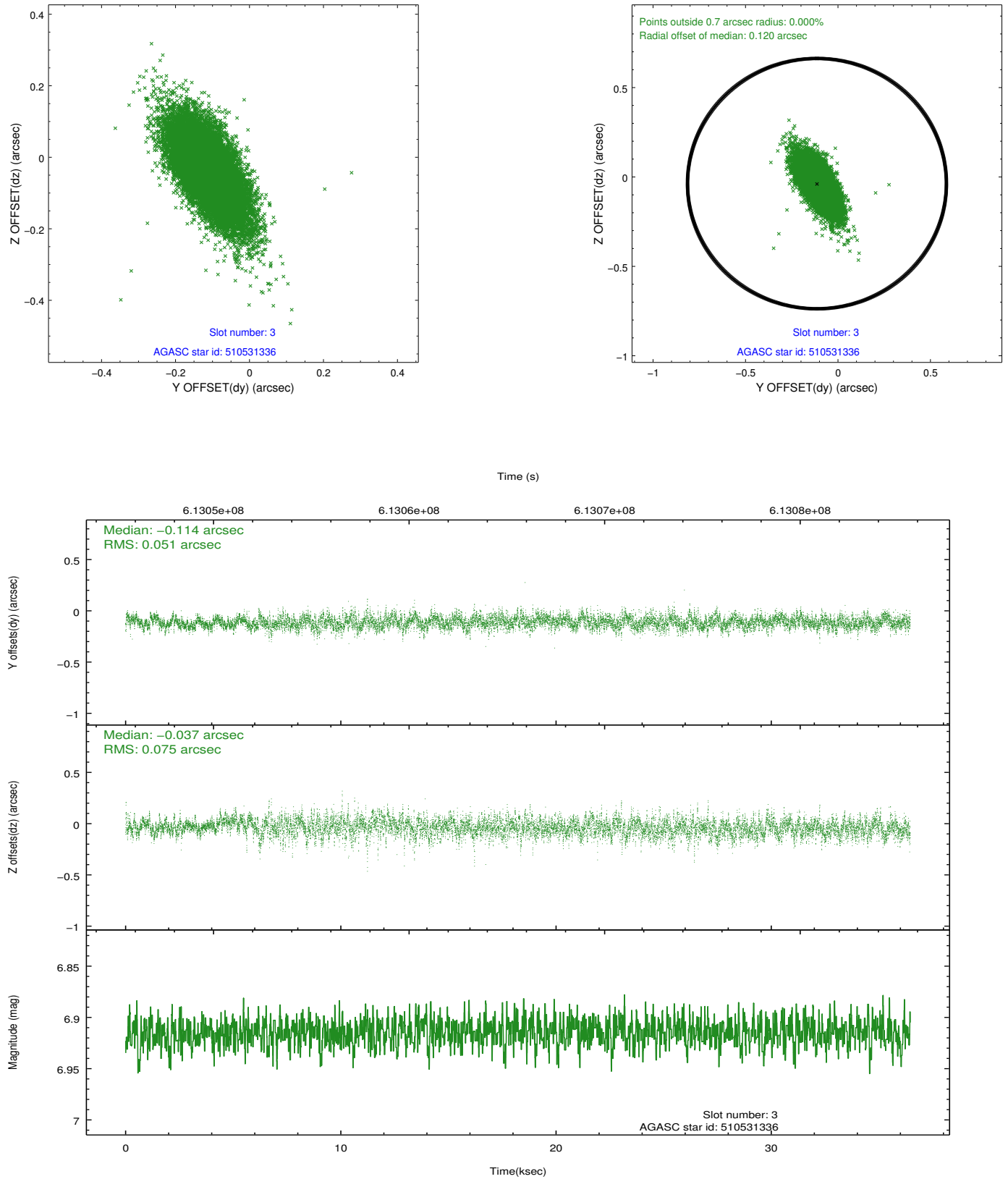


Slot Statistics

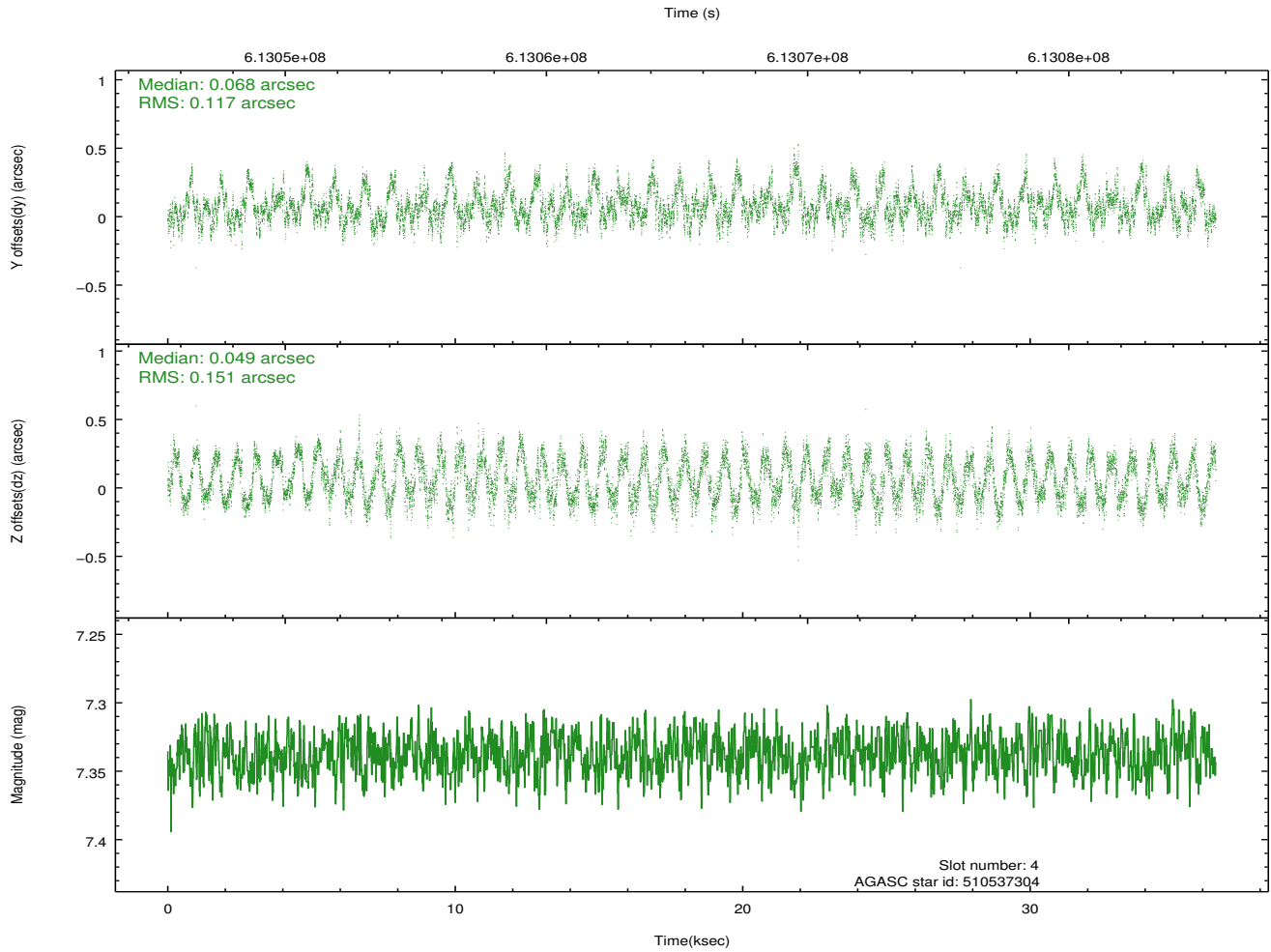
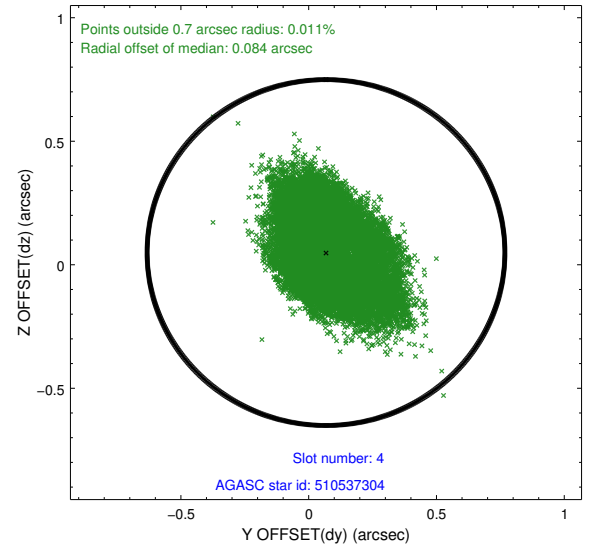
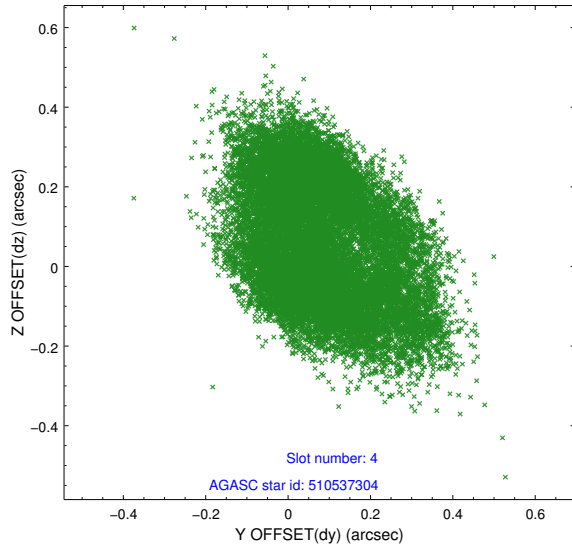
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.12	8893	0.029	-0.045	0.023	0.062	0.000000	0.000000	927.26	-1736.64
1	FID		ACIS-S-4	7.14	8891	0.386	0.026	0.019	0.030	0.000000	0.000000	2144.97	167.61
2	FID		ACIS-S-5	7.13	8893	-0.443	0.034	0.019	0.039	0.000000	0.000000	-1822.11	161.11
3	GUIDE	used	510531336	6.91	17785	-0.114	-0.037	0.090	0.168	258.217938	57.862631	1260.20	-1467.81
4	GUIDE	used	510537304	7.34	17786	0.068	0.049	0.205	0.314	257.977845	57.967610	1741.66	-1819.05
5	GUIDE	used	510537952	9.38	17765	0.308	-0.326	0.134	0.229	259.803735	57.190117	-1971.23	725.03
6	GUIDE	used	510536032	9.24	17759	-0.487	-0.009	0.158	0.267	258.787877	57.540840	90.64	-382.73
7	GUIDE	used	510663960	8.81	17774	0.213	0.316	0.150	0.248	260.091174	57.974176	-2282.90	-2133.40

2.4 Star Slots

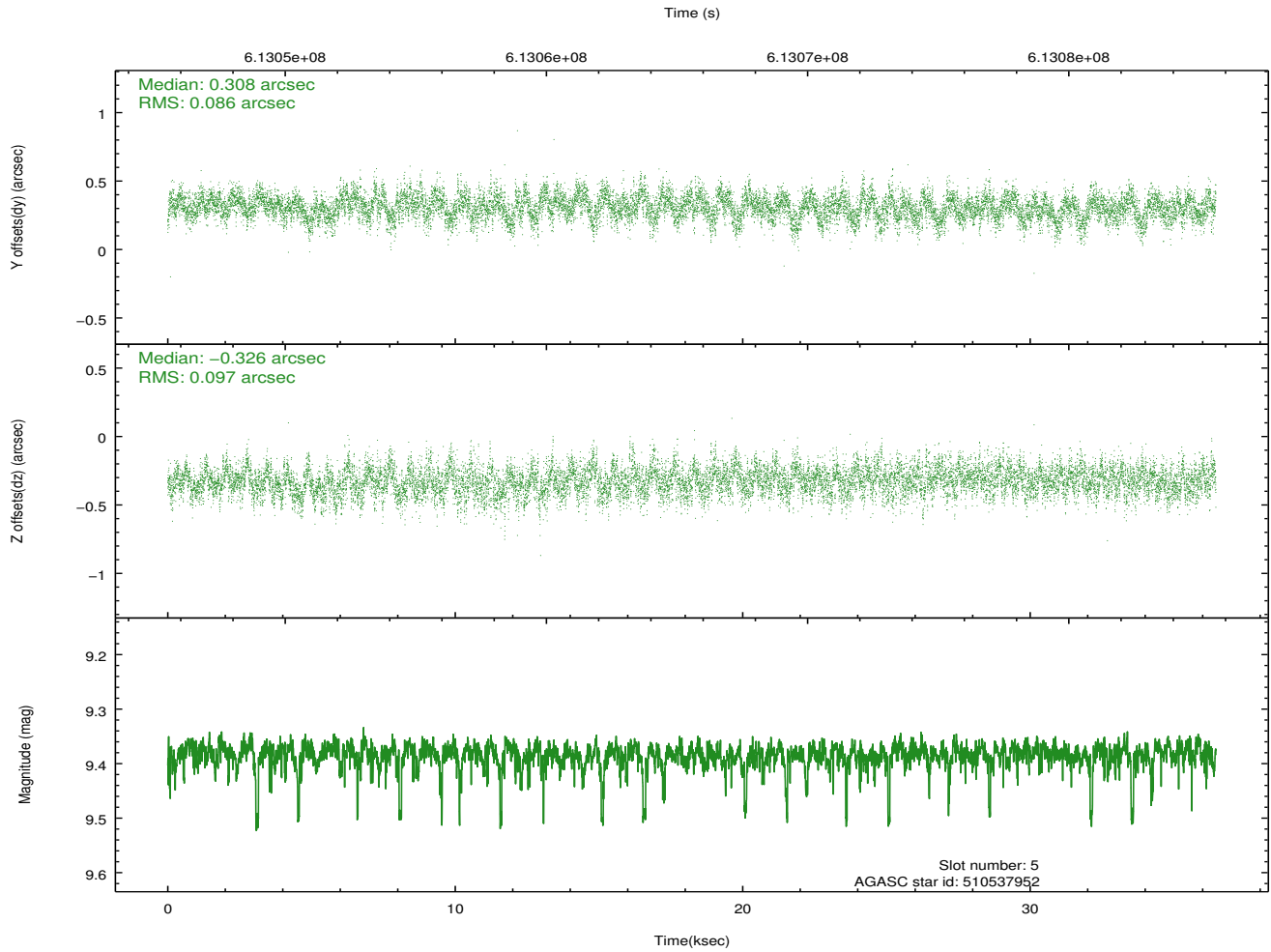
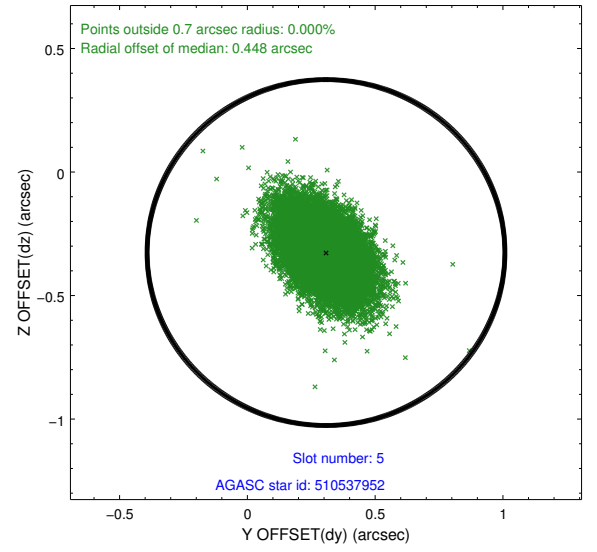
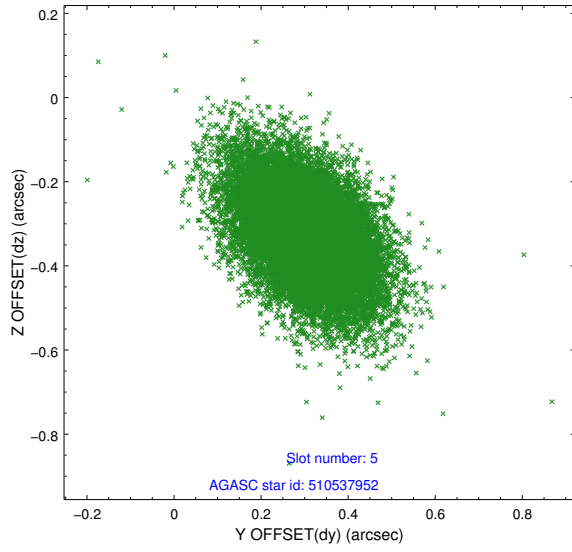
2.4.1 Slot 3



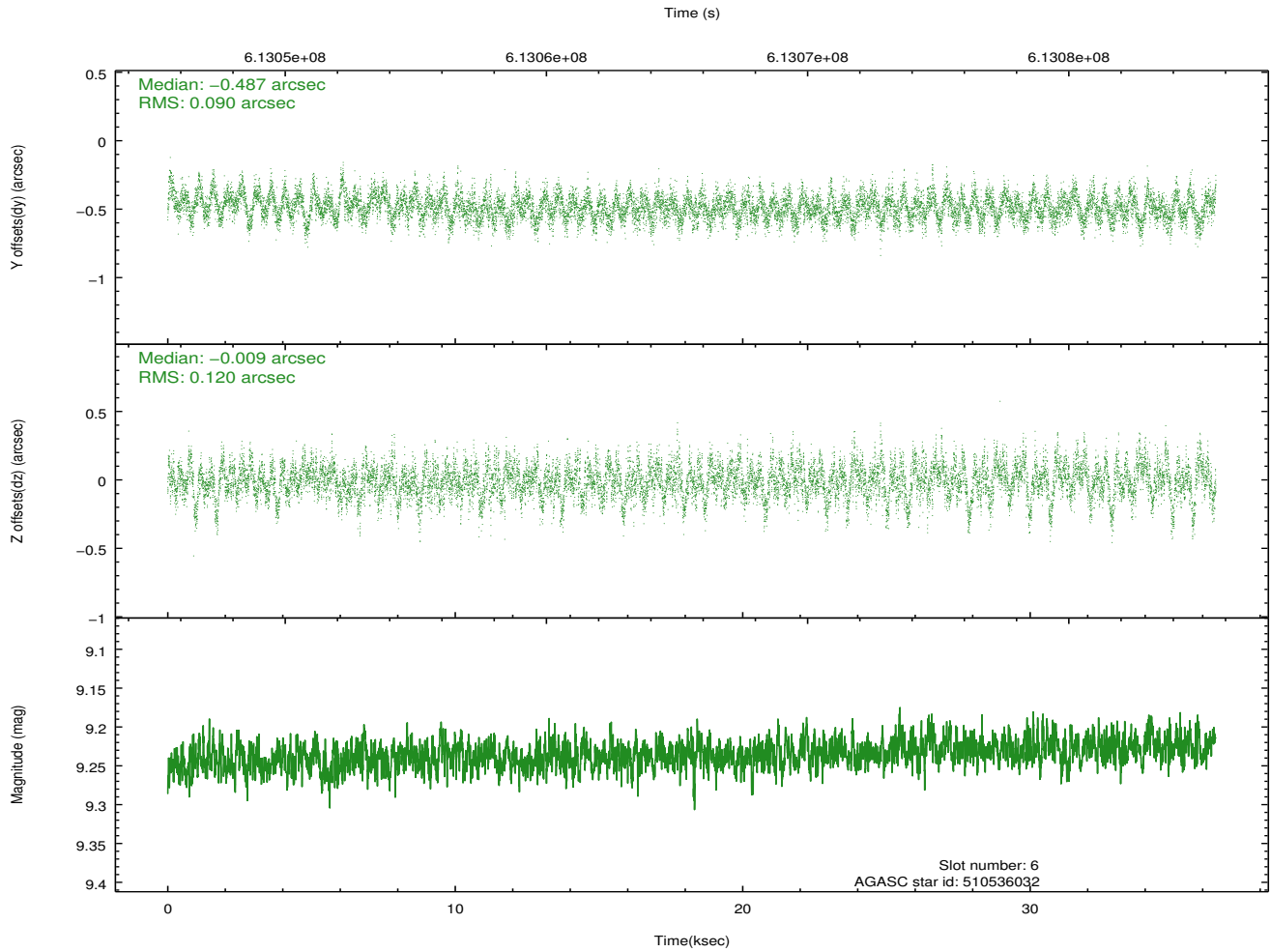
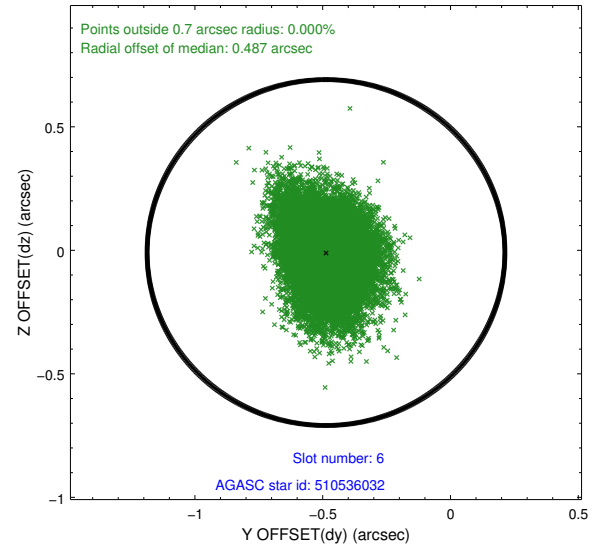
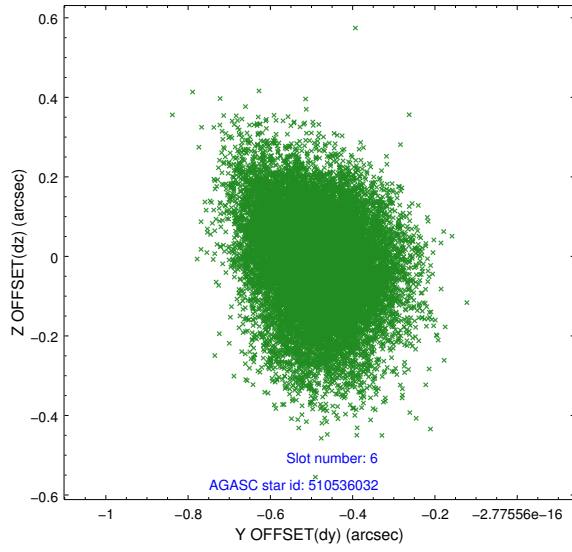
2.4.2 Slot 4



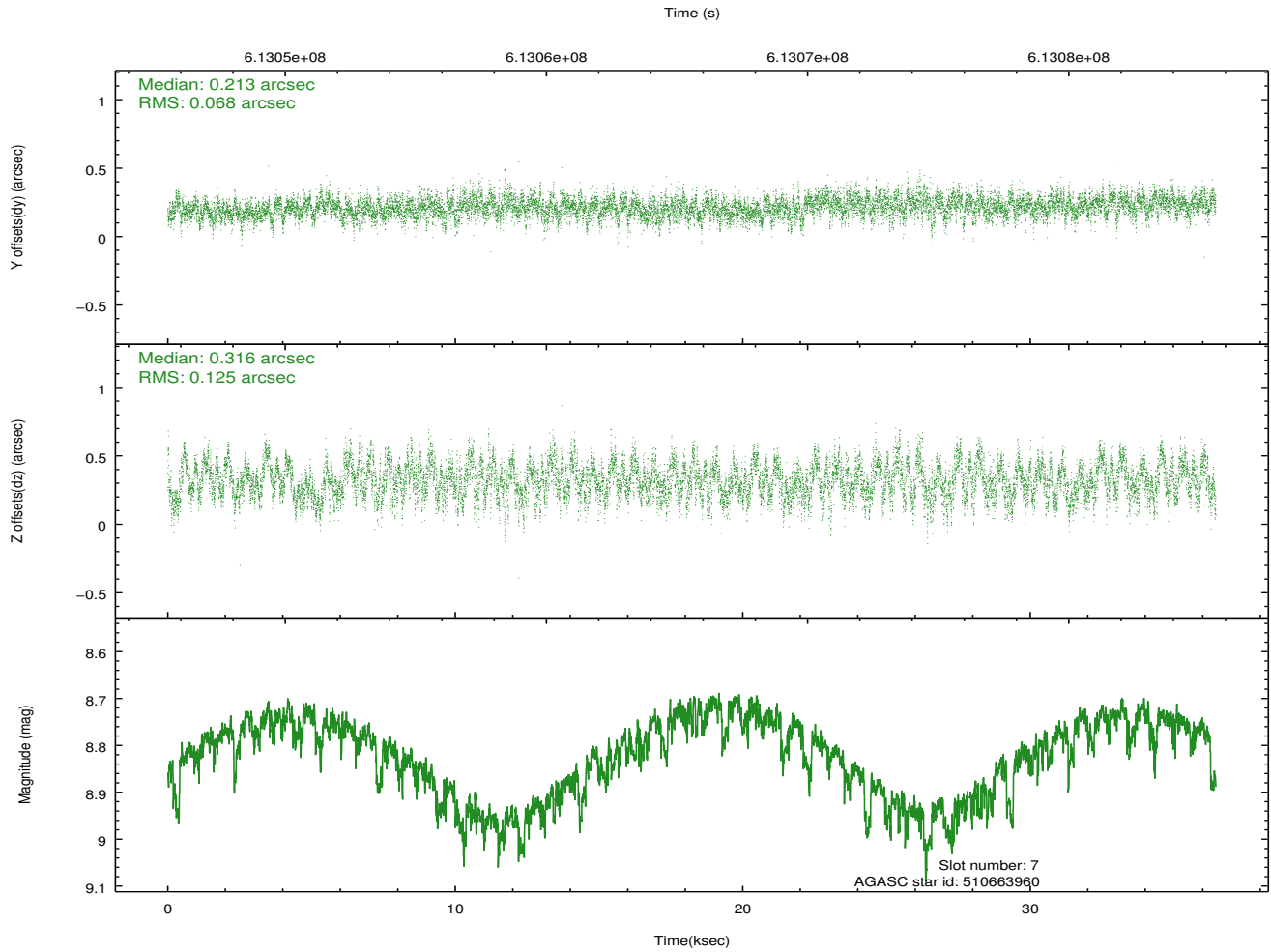
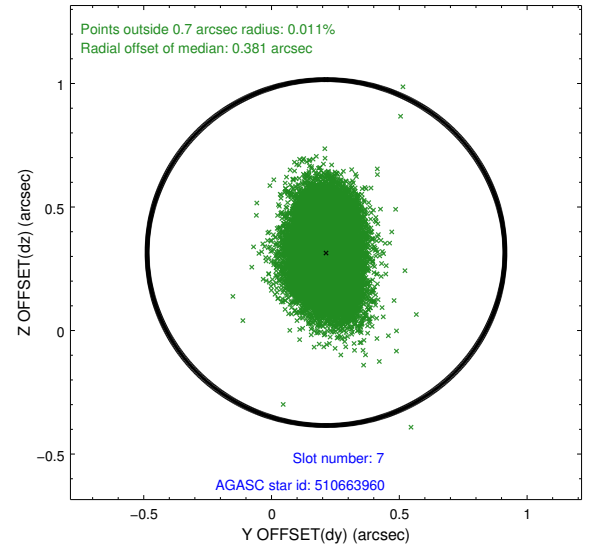
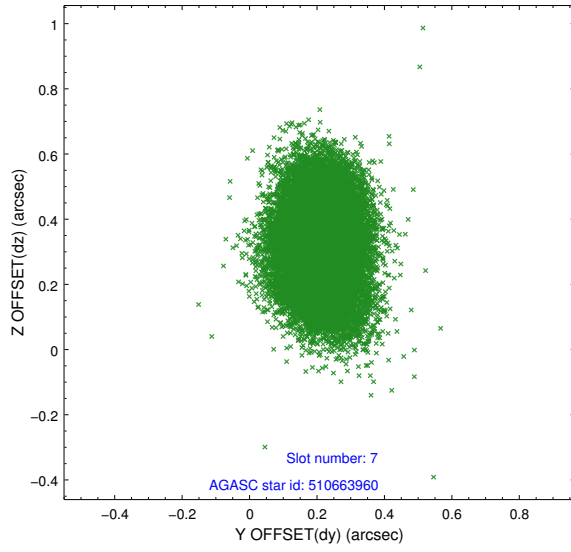
2.4.3 Slot 5



2.4.4 Slot 6

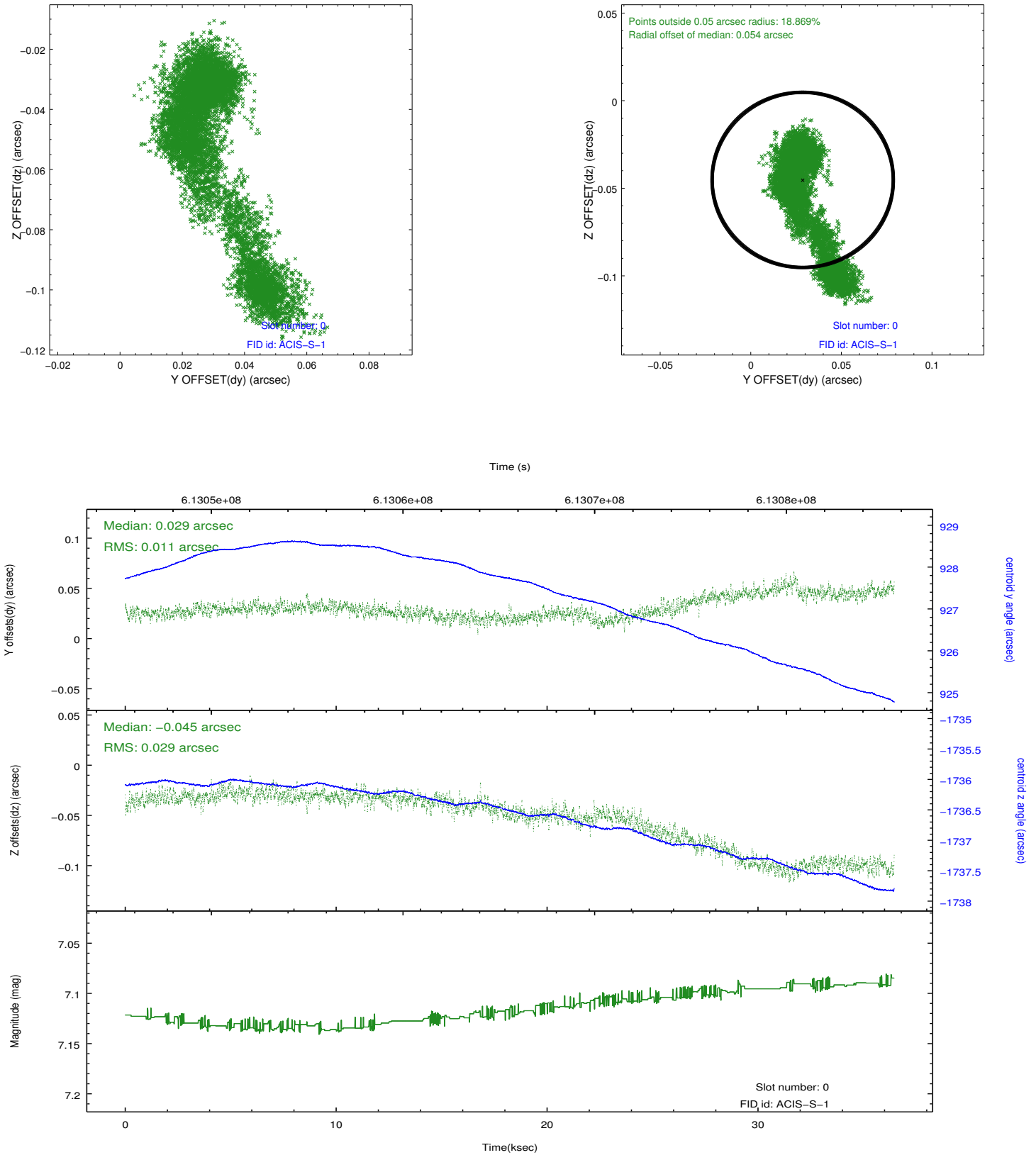


2.4.5 Slot 7

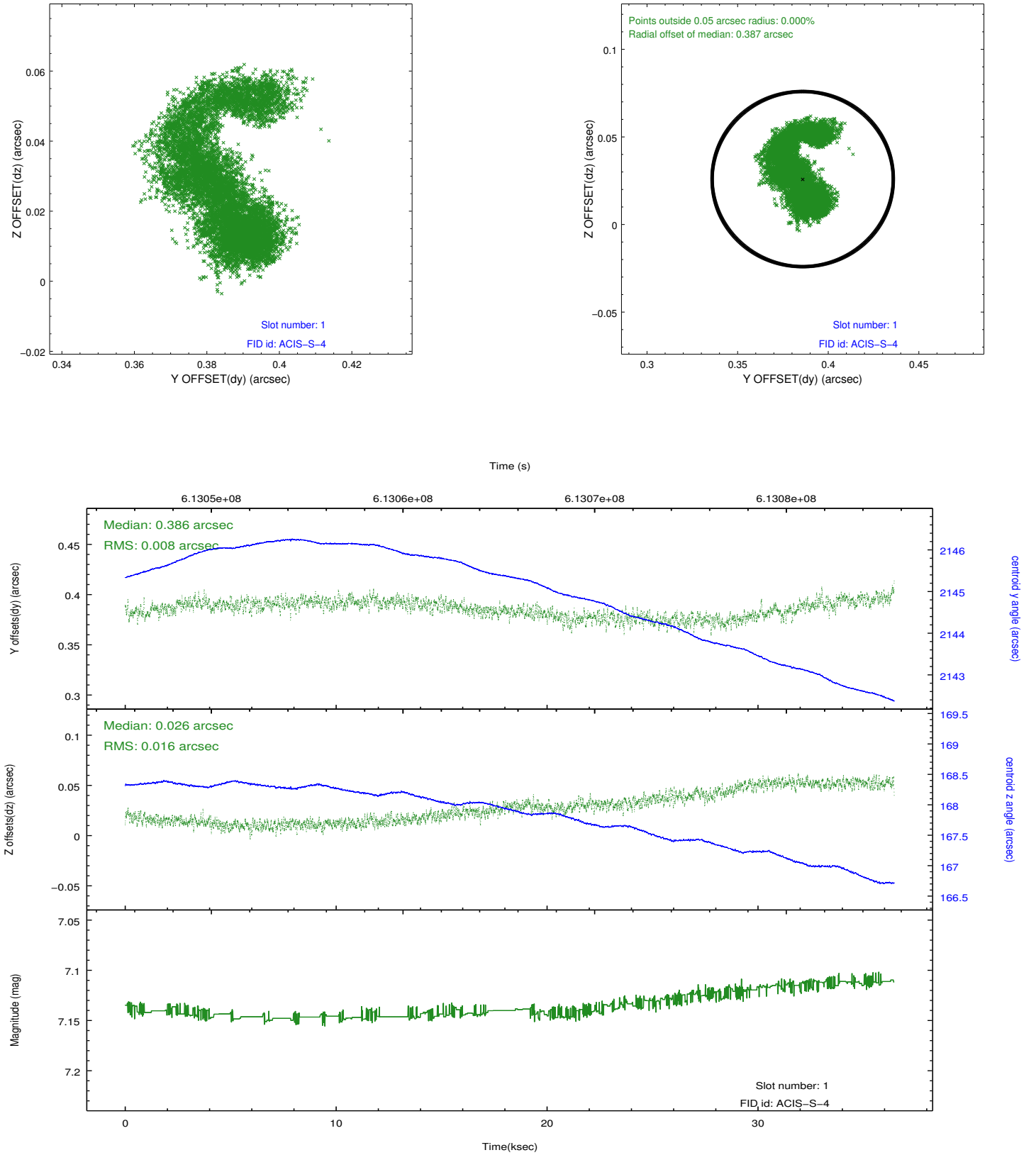


2.5 FID Slots

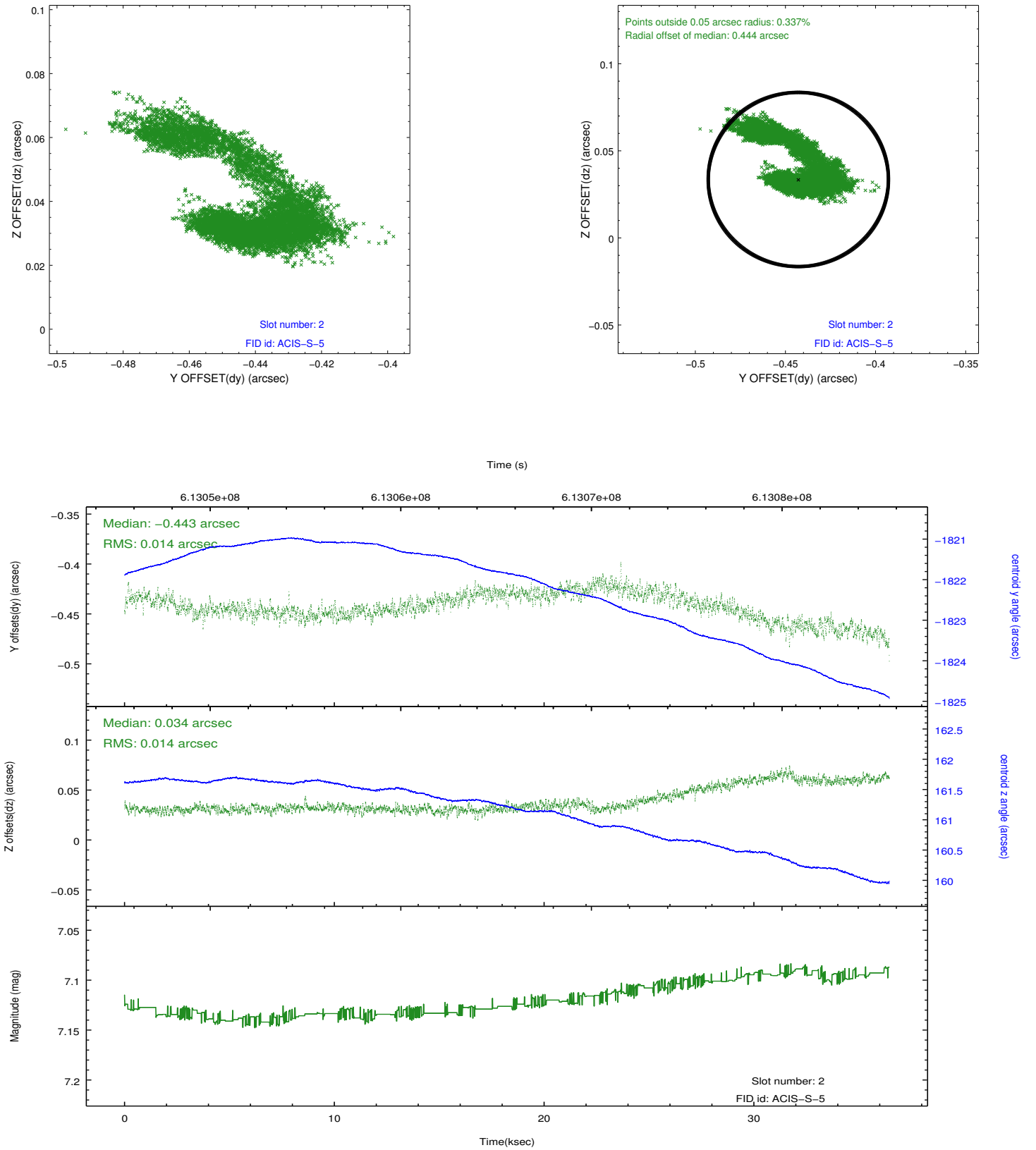
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.550274533629

A.2 Comments