

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18774 - L2 Version 1
Chandra X-Ray Center

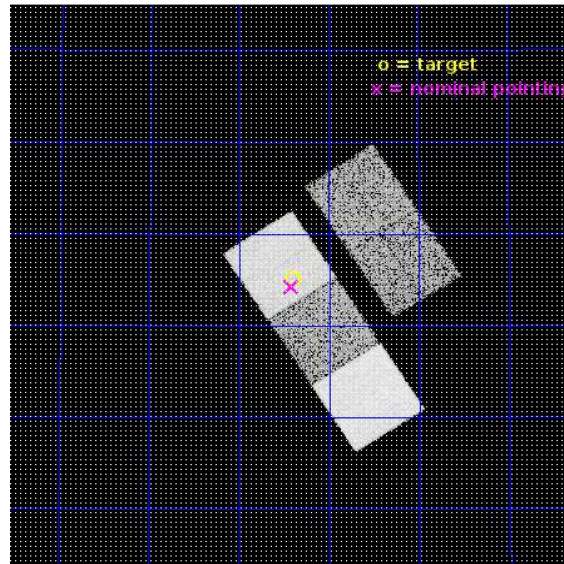
L2 Processing Date : Jul 17 2017

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

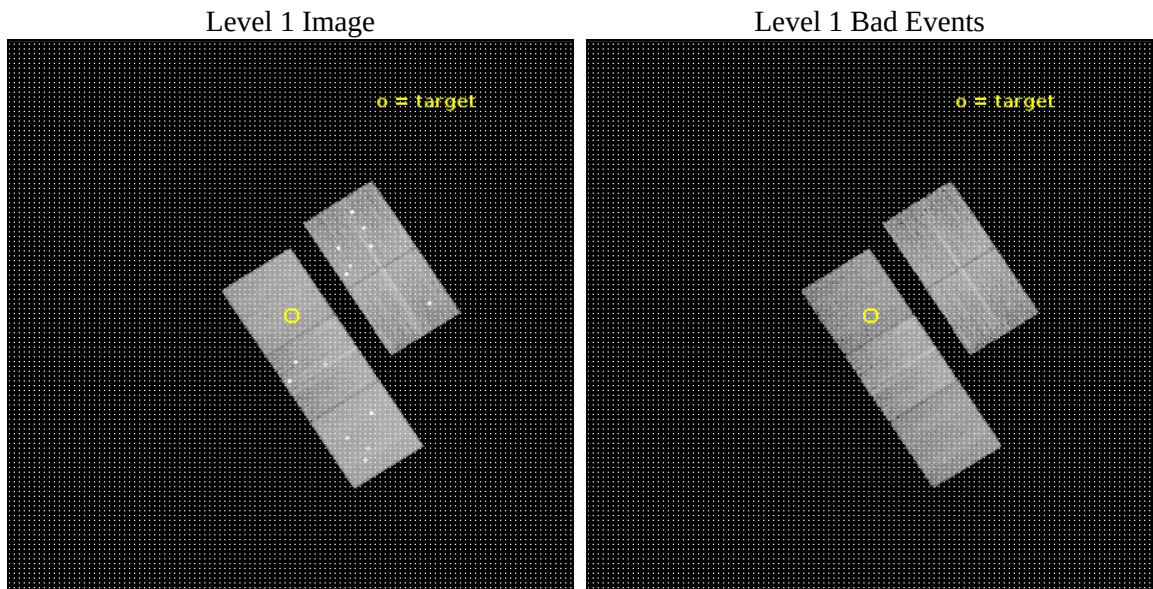
seq_num	801649	Sequence number
obs_id	18774	Observation id
title	Probing the extreme mass peaks at $z>0.7$	Proposal title
observer	Monique ARNAUD	Principal investigator
object	PSZ2 G092.69+59.92	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.60035	Observer's specified target RA [deg]
dec_targ	51.251374	Observer's specified target Dec [deg]
ra_nom	216.60490183388	Nominal RA [deg]
dec_nom	51.23785674835	Nominal Dec [deg]
roll_nom	237.15308910948	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10051.966686606	Sum of GTIs [s]
livetime	9920.6303416957	Livetime [s]
ontime2	10051.802526593	Sum of GTIs [s]
ontime3	10045.561596155	Sum of GTIs [s]
ontime5	10051.925646663	Sum of GTIs [s]
ontime6	10048.743616223	Sum of GTIs [s]
ontime7	10051.966686606	Sum of GTIs [s]
l2events	125175	Number of level 2 events



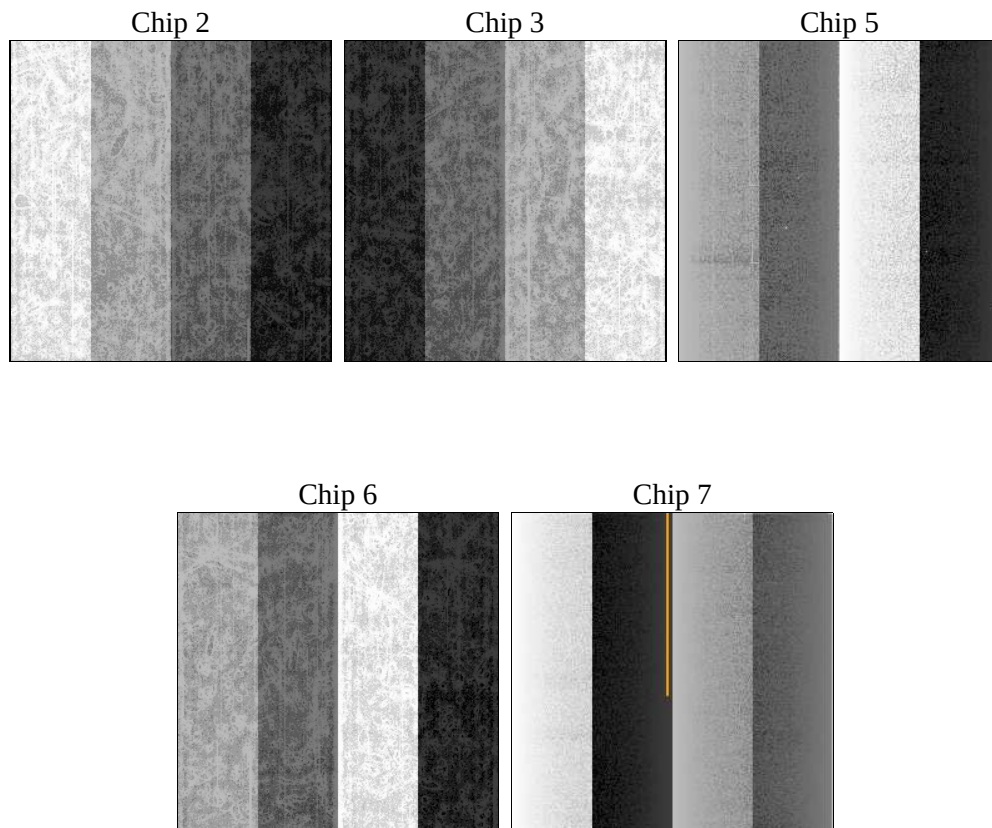
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10051.966686606	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	10051.802526593	Sum of GTIs [s]
date	2017-07-17T13:43:20	Date and time of file creation	ontime3	10045.561596155	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	10051.925646663	Sum of GTIs [s]
			ontime6	10048.743616223	Sum of GTIs [s]
			ontime7	10051.966686606	Sum of GTIs [s]
			l1events	557613	Number of level 1 events

2.1.4 Events

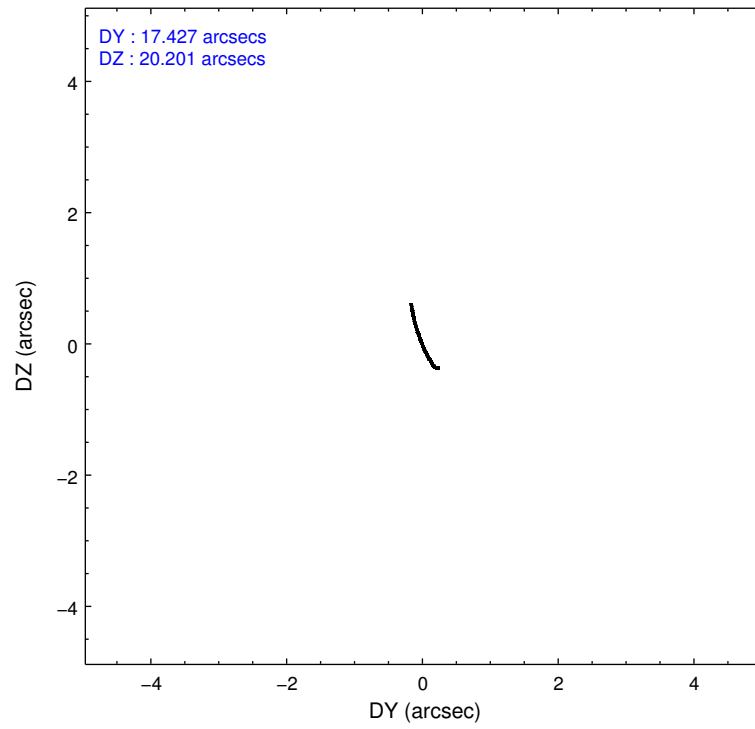
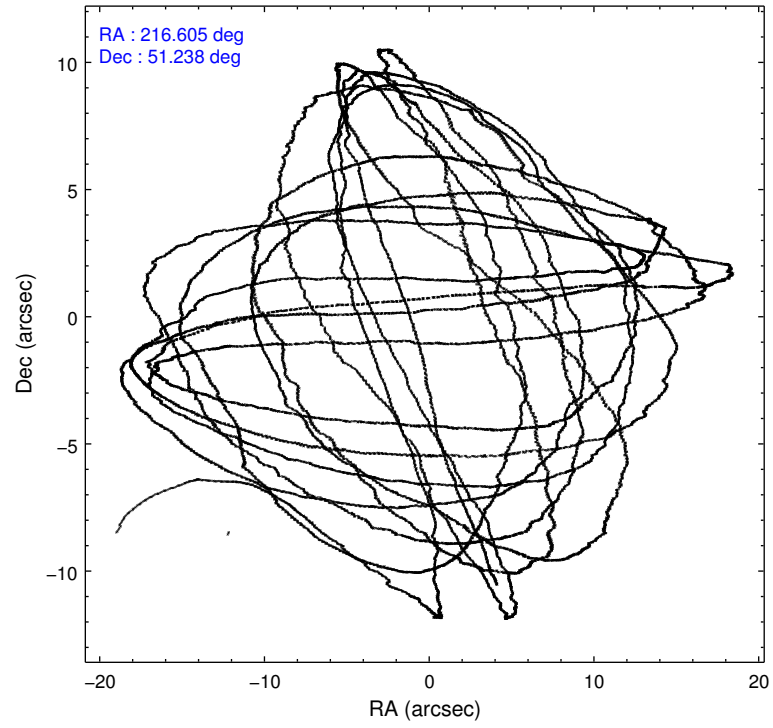
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	101280	107365	136532	109083	103353
rejected events	86328	83241	67943	91135	57976
rejected %	85%	77%	49%	83%	56%

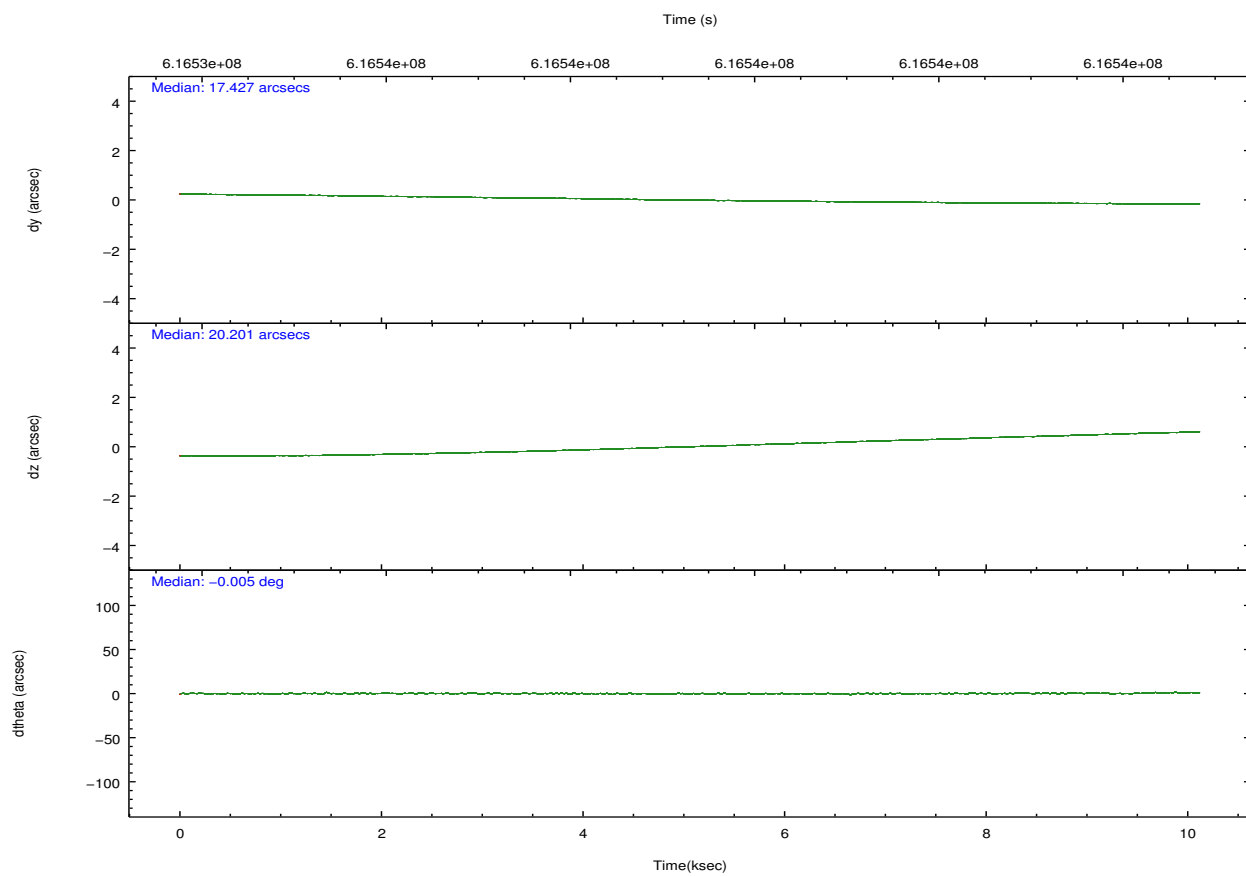
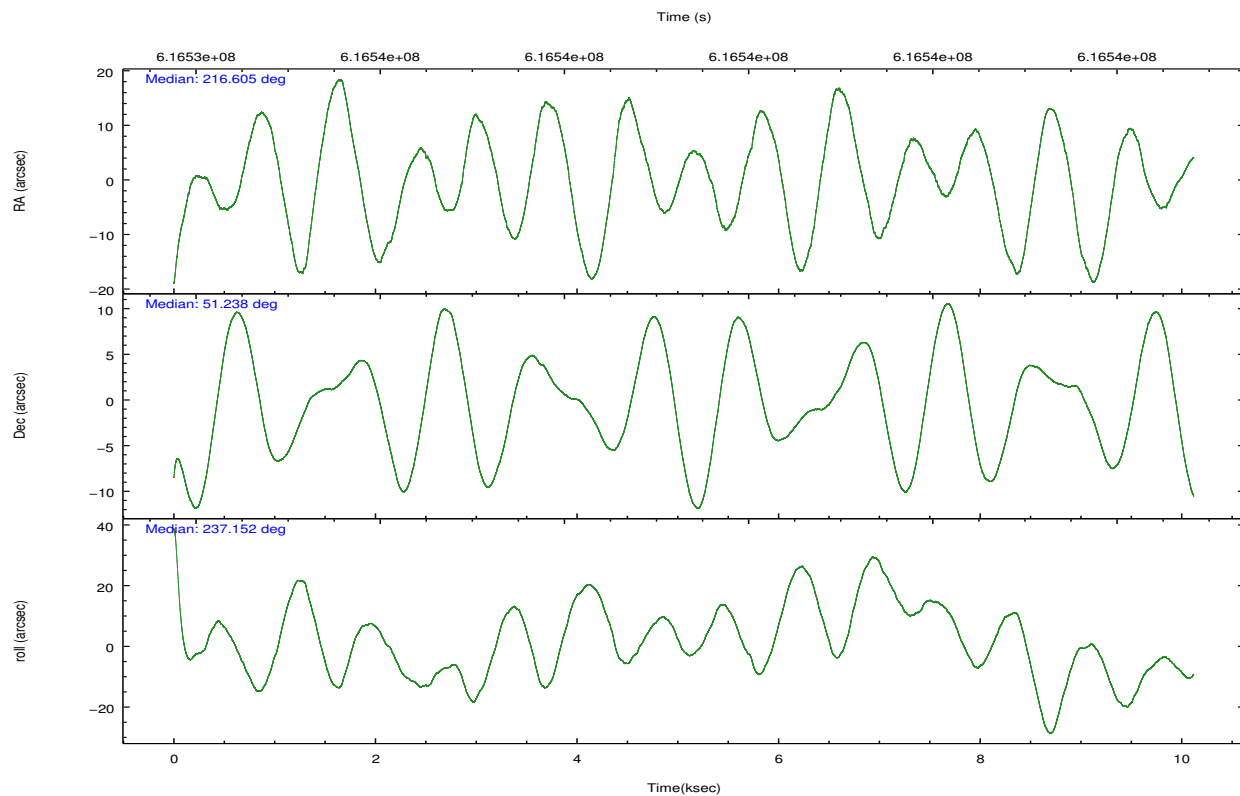
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7700	14959	11695	10052	4058
	7%	13%	8%	9%	3%
grade 1 events	113	144	500	85	239
	0%	0%	0%	0%	0%
grade 2 events	3570	5686	20552	4068	10658
	3%	5%	15%	3%	10%
grade 3 events	791	909	2488	899	3747
	0%	0%	1%	0%	3%
grade 4 events	1098	881	2374	852	3718
	1%	0%	1%	0%	3%
grade 5 events	3169	3655	8890	3535	10002
	3%	3%	6%	3%	9%
grade 6 events	1805	1713	31511	2088	23233
	1%	1%	23%	1%	22%
grade 7 events	83034	79418	58522	87504	47698
	81%	73%	42%	80%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	216.606569	216.6049018338776	CCD I2 on	O1	Y
[deg] Pointing Dec	51.265326	51.23785674835029	CCD I3 on	Y	Y
[deg] Pointing Roll	236.995146	237.1530891094768	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	616534356.184000	616533093.8083	CCD S5 on	N	N
Observation start date	2017-07-15T19:31:27	2017-07-15T19:11:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	616544356.184000	616545367.67151	On-chip summing requested	N	N
Observation end date	2017-07-15T22:18:07	2017-07-15T22:36:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



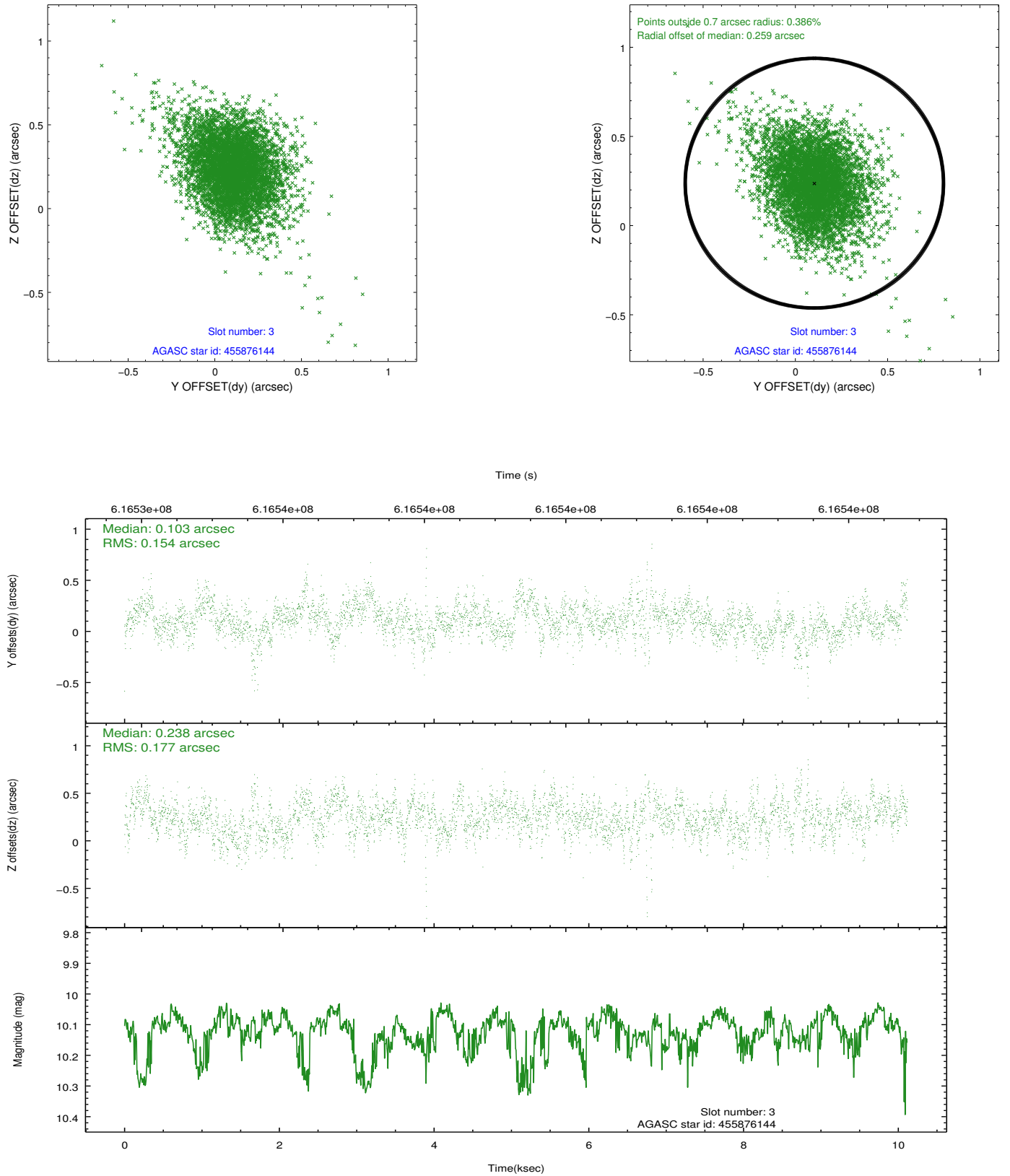


Slot Statistics

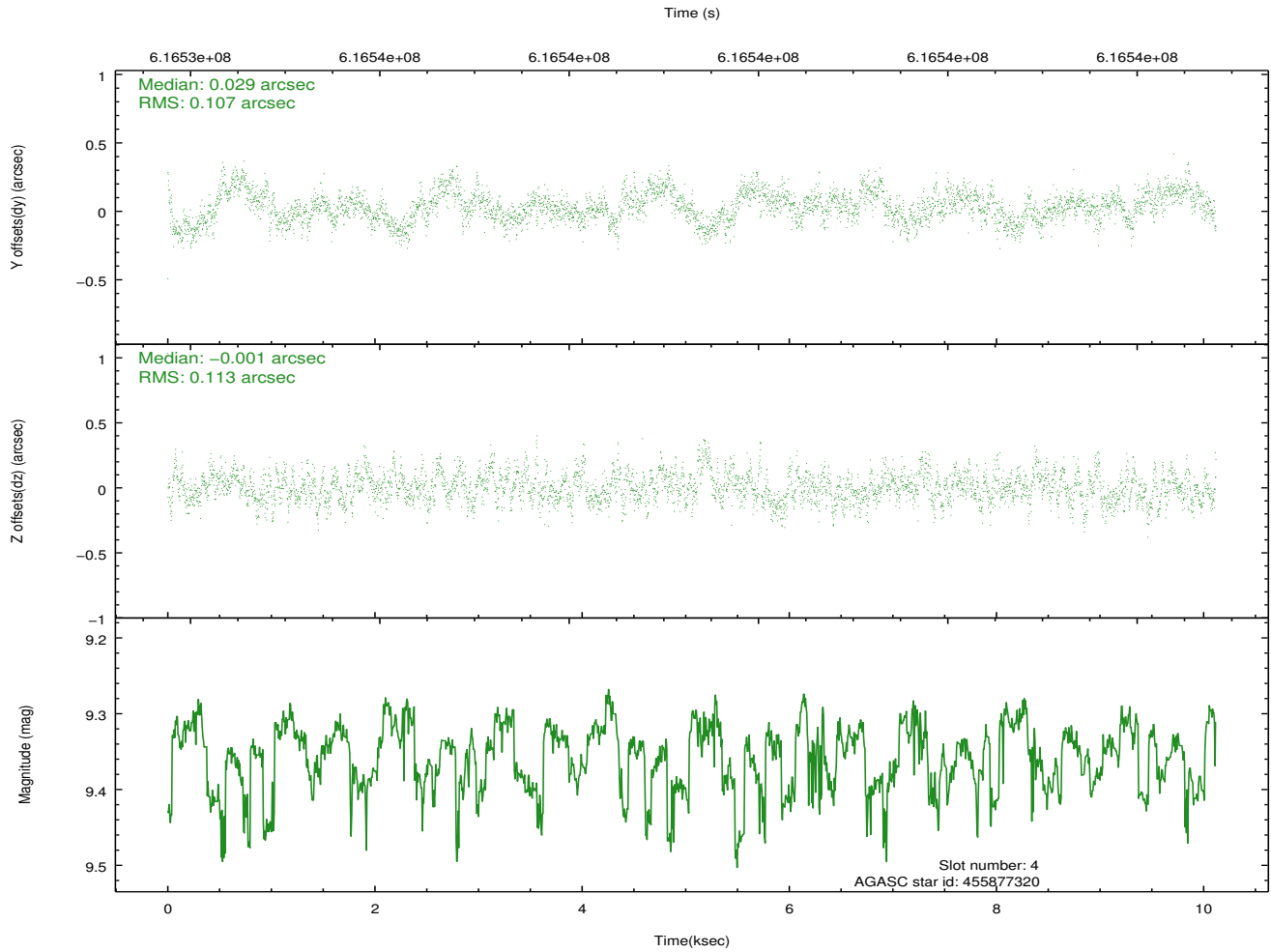
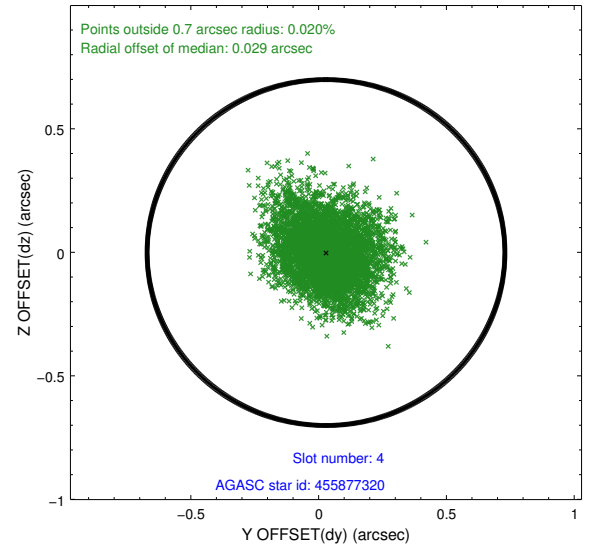
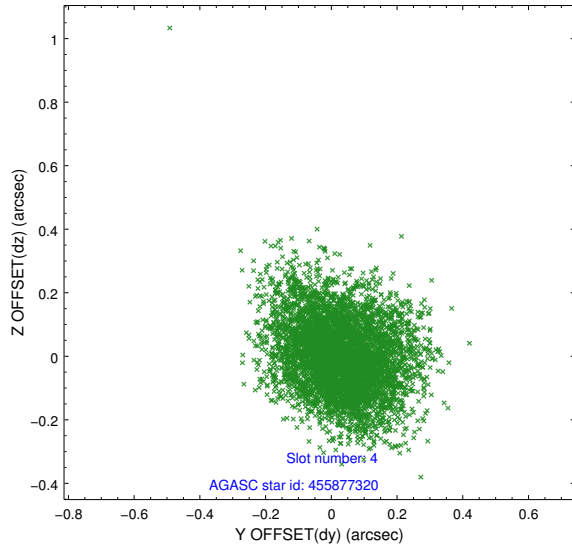
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	2469	-0.216	-0.099	0.009	0.014	0.000000	0.000000	-770.65	-1741.82
1	FID		ACIS-S-4	7.13	2469	0.523	0.131	0.010	0.016	0.000000	0.000000	2143.08	166.41
2	FID		ACIS-S-5	7.12	2469	-0.339	-0.024	0.013	0.021	0.000000	0.000000	-1822.99	160.43
3	GUIDE	used	455876144	10.12	4918	0.103	0.238	0.239	0.411	215.638635	51.299381	1072.41	-1901.35
4	GUIDE	used	455877320	9.35	4928	0.029	-0.001	0.164	0.266	216.070595	51.447939	100.25	-1369.44
5	GUIDE	used	455878944	9.86	4914	-0.187	-0.258	0.278	0.445	216.699561	50.739158	1472.70	1209.16
6	GUIDE	used	455872944	8.15	4935	-0.253	-0.346	0.172	0.290	216.736318	50.410073	2420.41	1927.58
7	GUIDE	used	455876608	9.48	4931	0.317	0.362	0.199	0.319	216.222670	52.137347	-2171.04	-2422.14

2.4 Star Slots

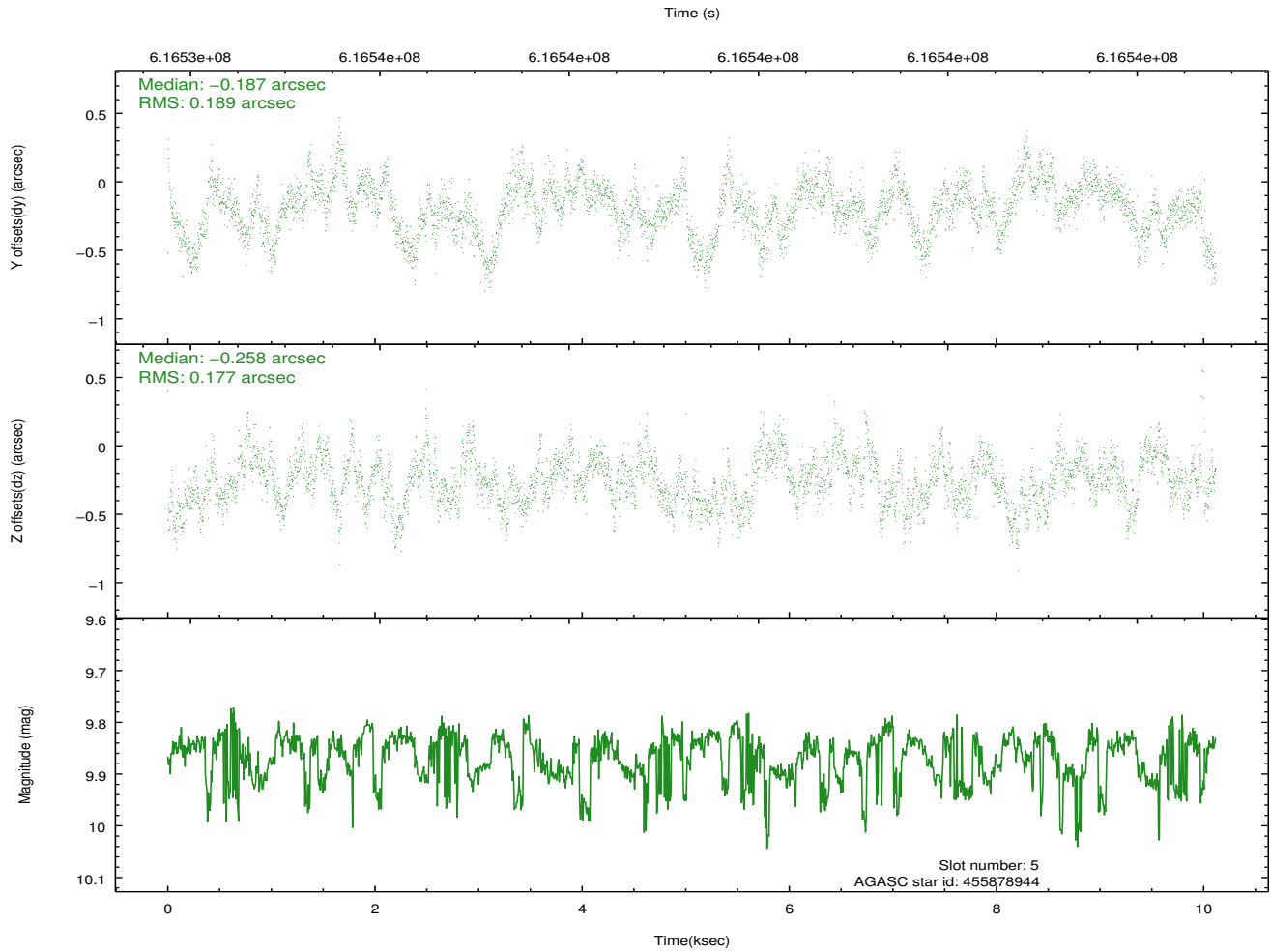
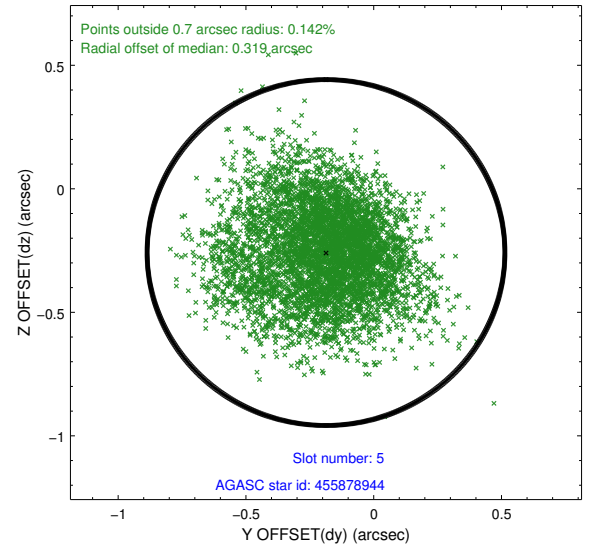
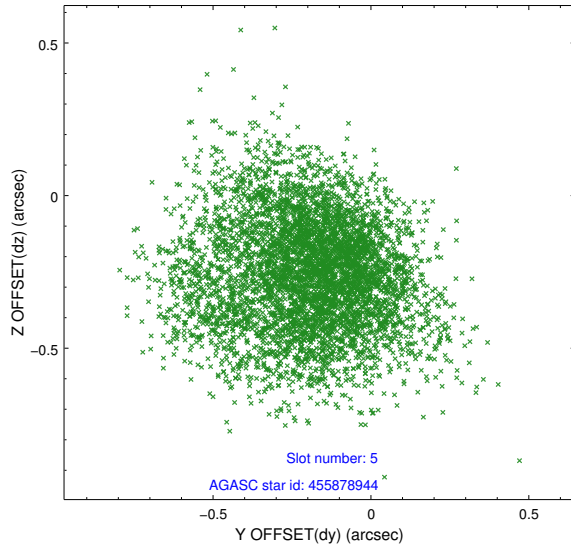
2.4.1 Slot 3



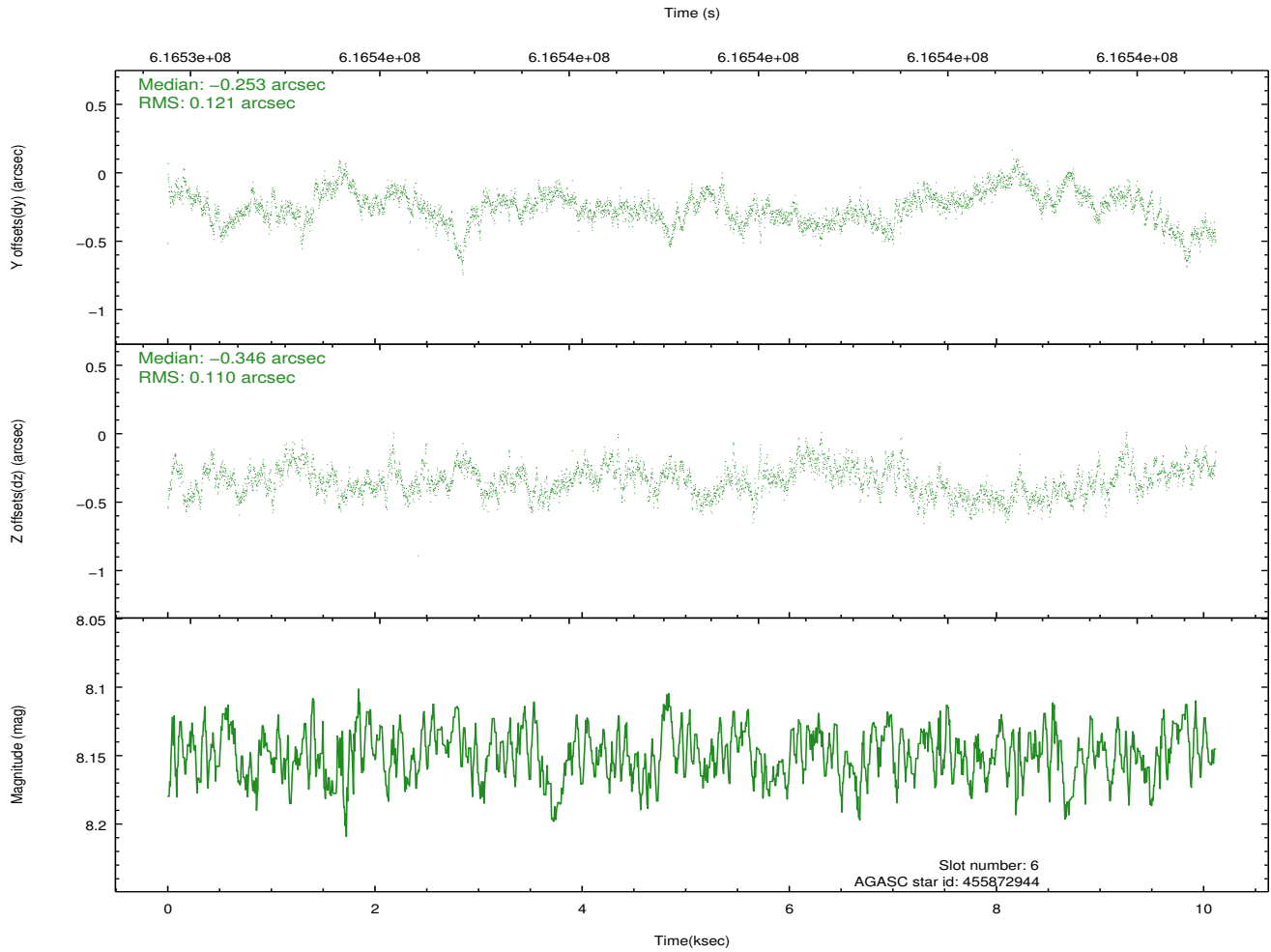
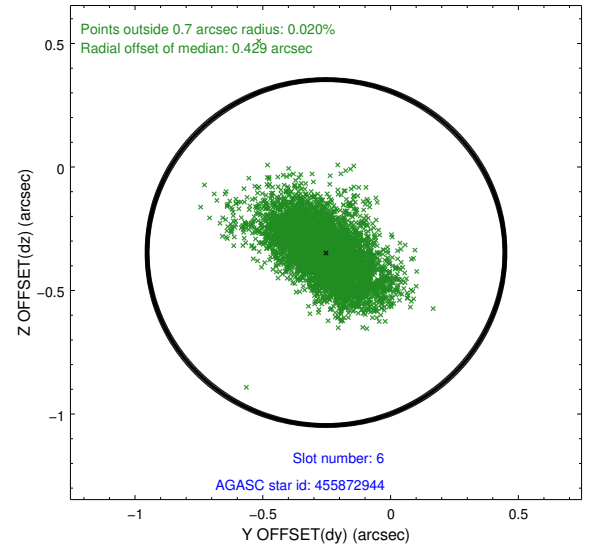
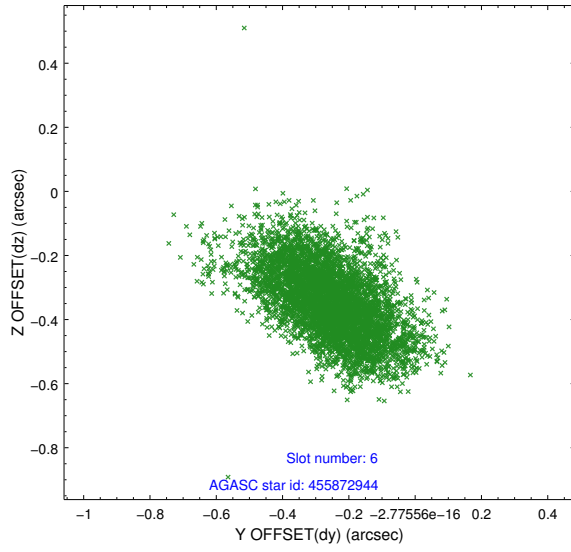
2.4.2 Slot 4



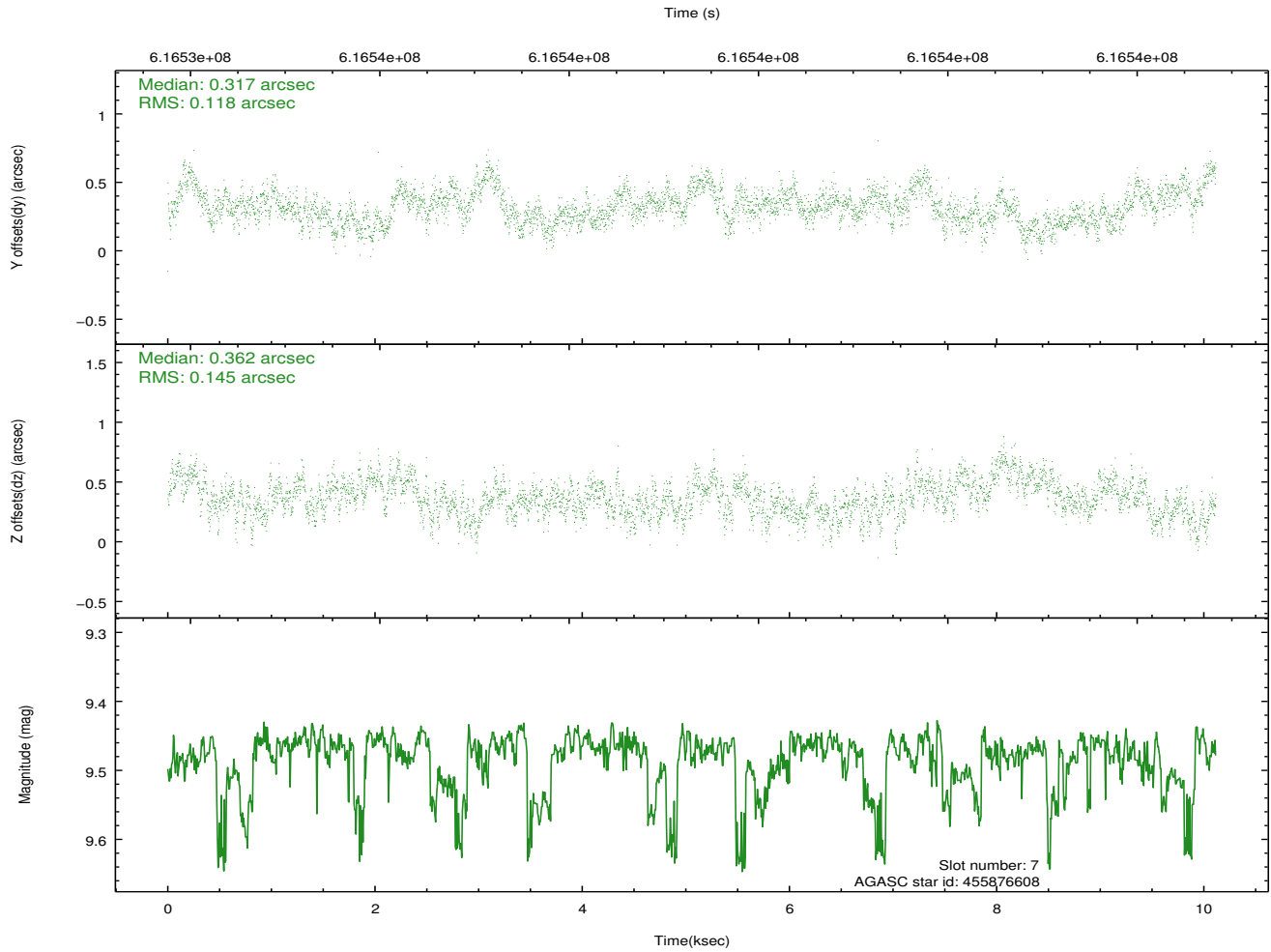
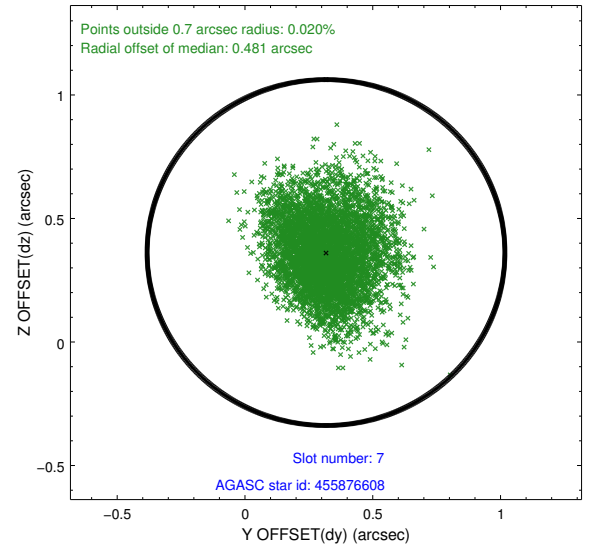
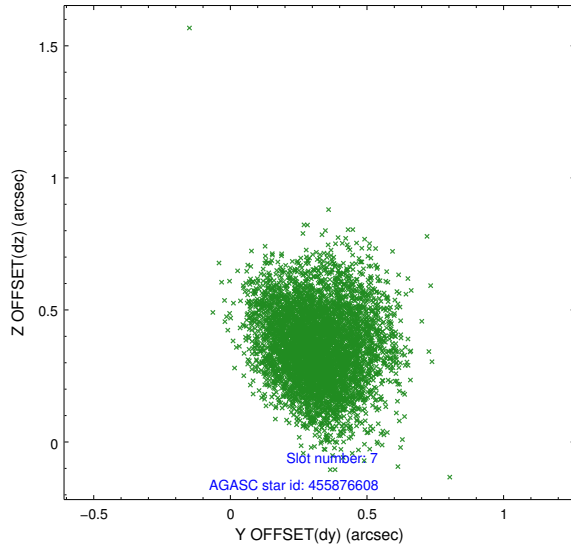
2.4.3 Slot 5



2.4.4 Slot 6

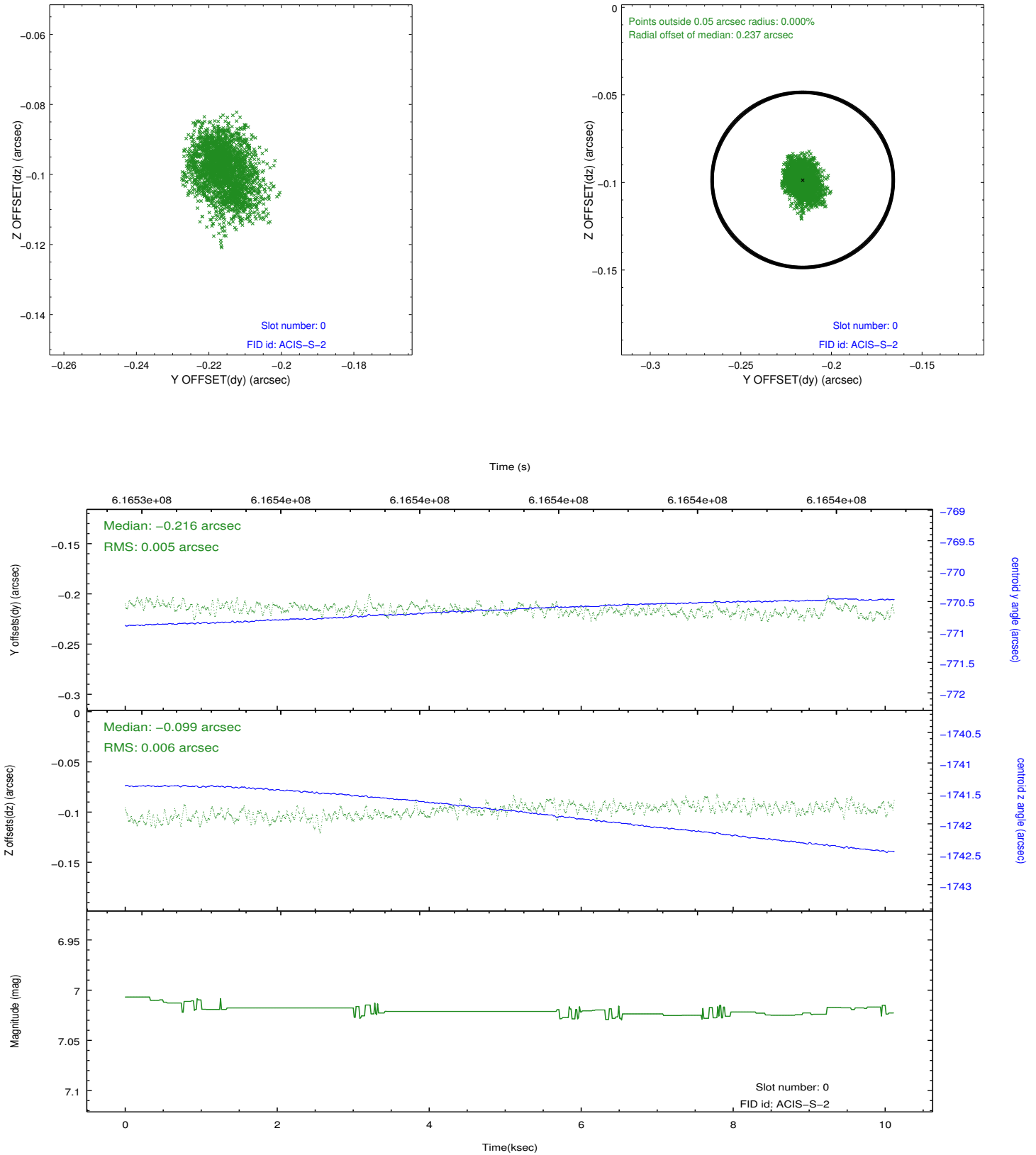


2.4.5 Slot 7

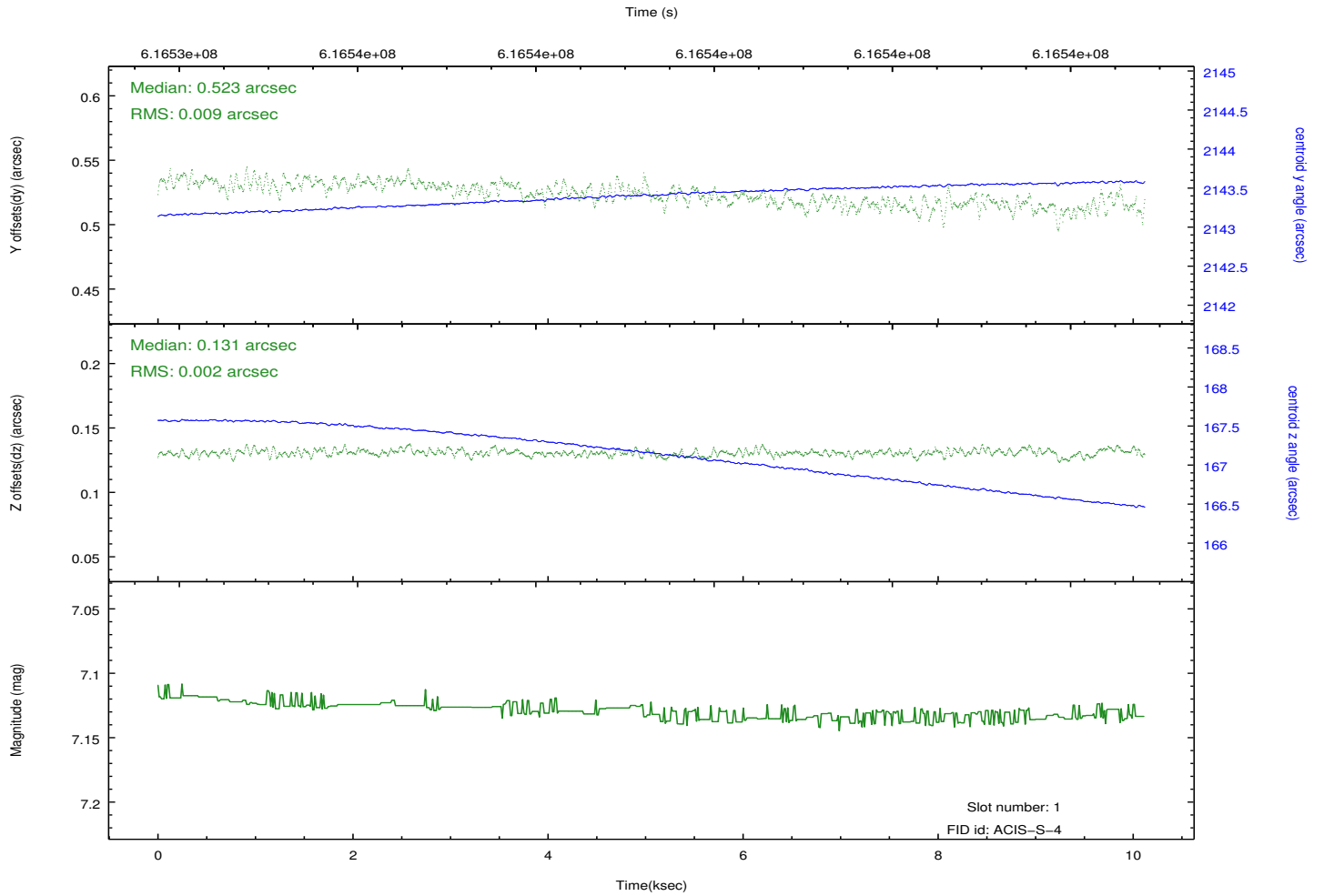
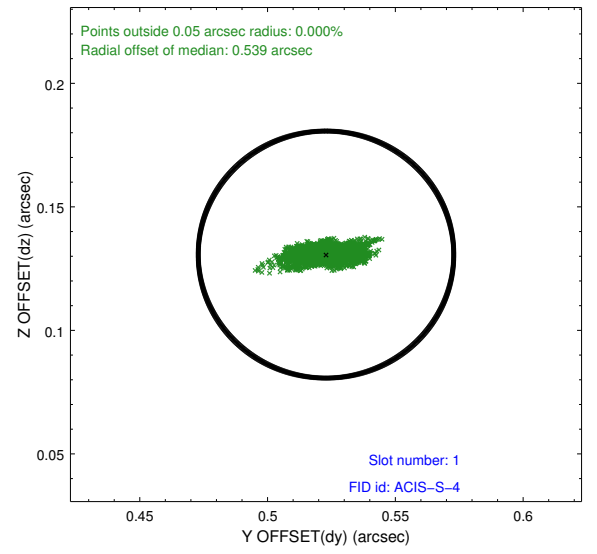
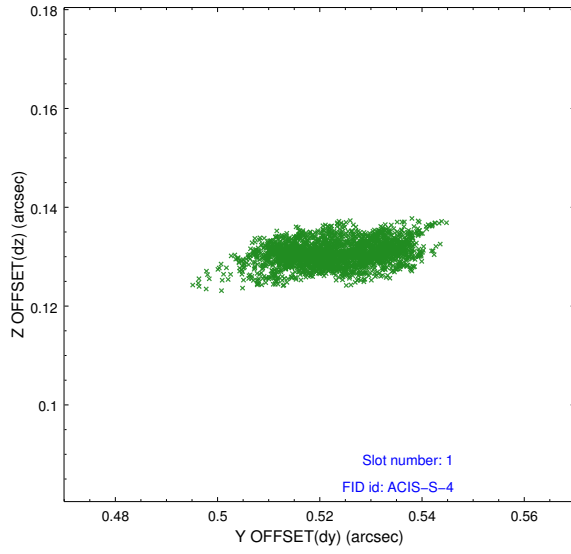


2.5 FID Slots

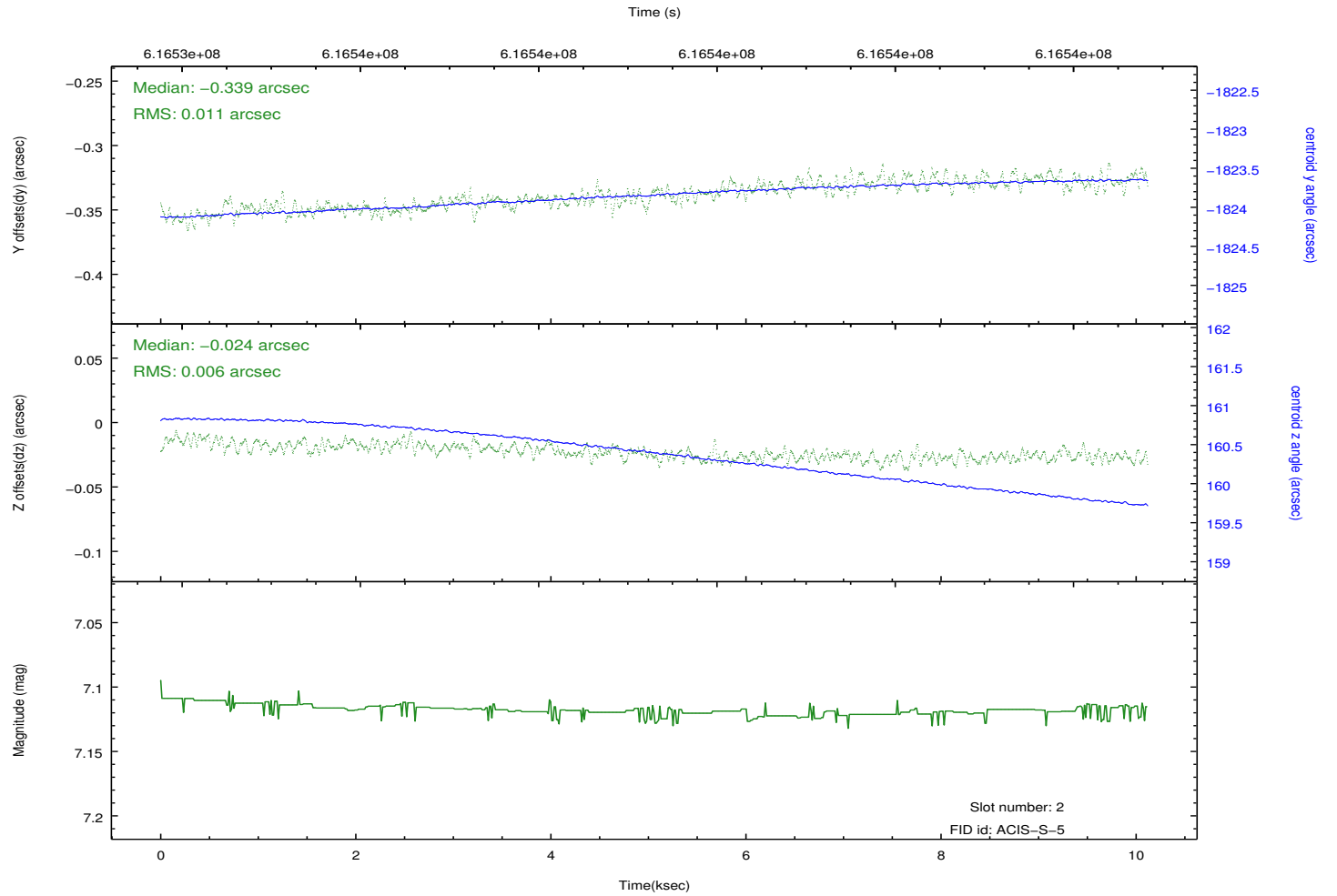
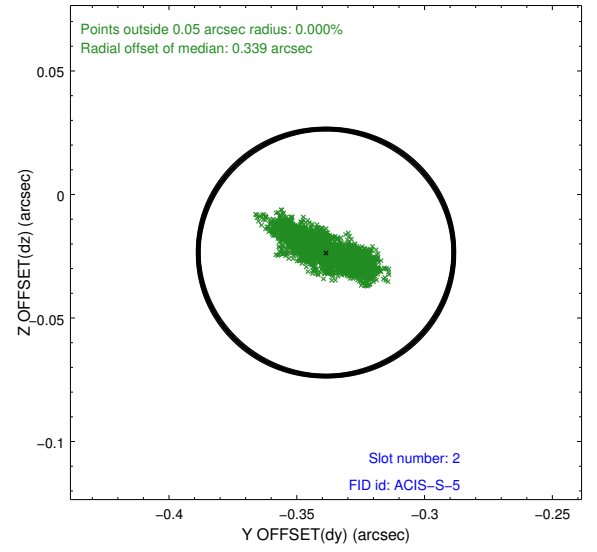
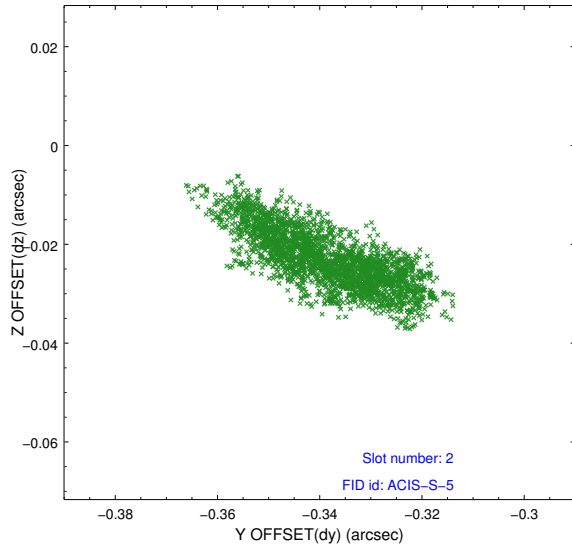
2.5.1 Slot 0



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)	2017.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.051966686606

A.2 Comments

Joint Proposal: CX0-XMM