

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4521 - L2 Version 5  
Chandra X-Ray Center

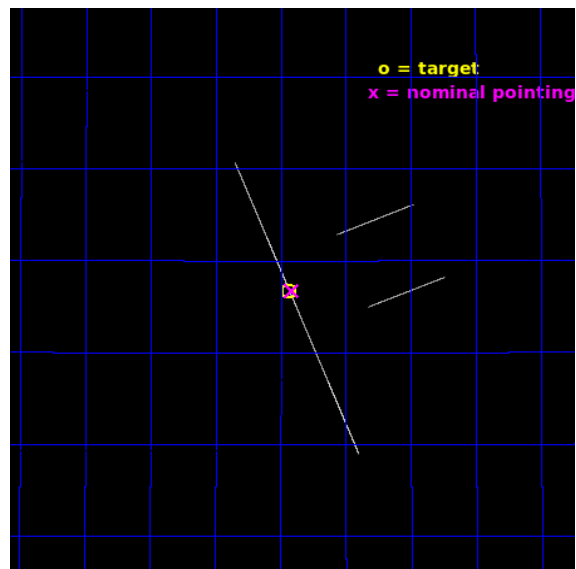
L2 Processing Date : Oct 1 2020

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# 1 Front

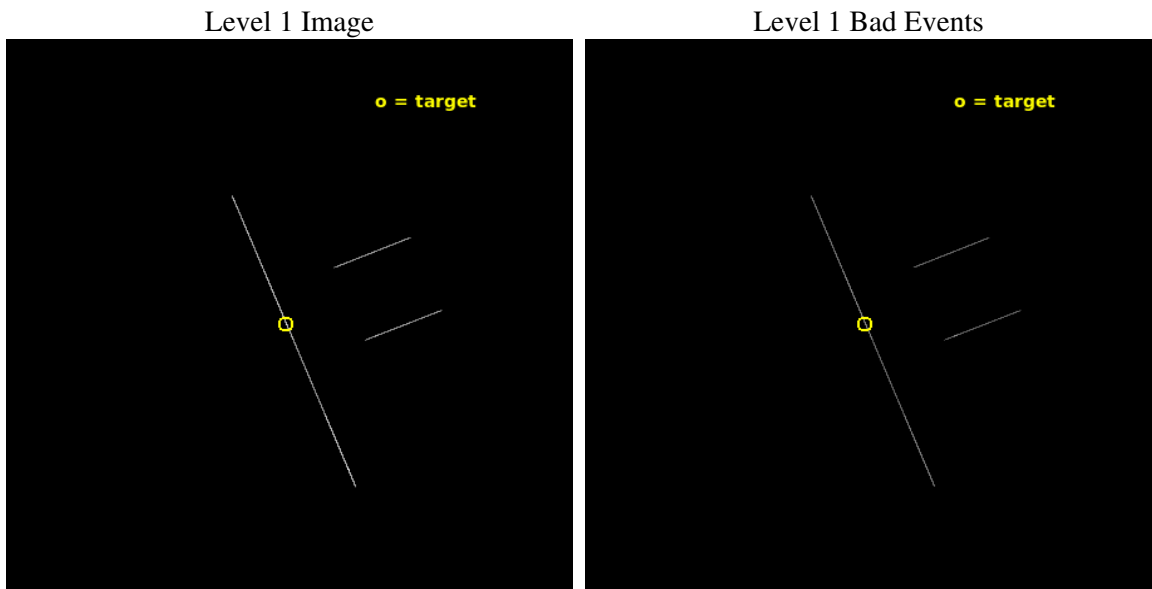
seq_num	300115	Sequence number
obs_id	4521	Observation id
title	Continued Monitoring of the Orbital Evolution of RX J1914.4+2456	P
observer	Tod Strohmayer	Principal investigator
object	RX J1914.4+2456	Source name
ra_targ	288.60875	Observer's specified target RA [deg]
dec_targ	24.945444	Observer's specified target Dec [deg]
ra_nom	288.60332917938	Nominal RA [deg]
dec_nom	24.945477813931	Nominal Dec [deg]
roll_nom	247.79890779988	Nominal Roll [deg]
revision	5	Processing version of data
ontime	15144.25	Sum of GTIs [s]
livetime	15085.092773438	Livetime [s]
ontime2	15144.25	Sum of GTIs [s]
ontime3	15144.25	Sum of GTIs [s]
ontime5	15144.25	Sum of GTIs [s]
ontime6	15144.25	Sum of GTIs [s]
ontime7	15144.25	Sum of GTIs [s]
ontime8	15144.25	Sum of GTIs [s]
l2events	211643	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	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15144.25	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	15144.25	Sum of GTIs [s]
date	2020-10-01T23:02:36	Date and time of file creation	ontime3	15144.25	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	15144.25	Sum of GTIs [s]
			ontime6	15144.25	Sum of GTIs [s]
			ontime7	15144.25	Sum of GTIs [s]
			ontime8	15144.25	Sum of GTIs [s]
			l1events	352857	Number of level 1 events

### 2.1.3 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	26080	26577	133301	26458	87623	52818
rejected events	7104	6976	20019	7085	18532	11391
rejected %	27%	26%	15%	26%	21%	21%

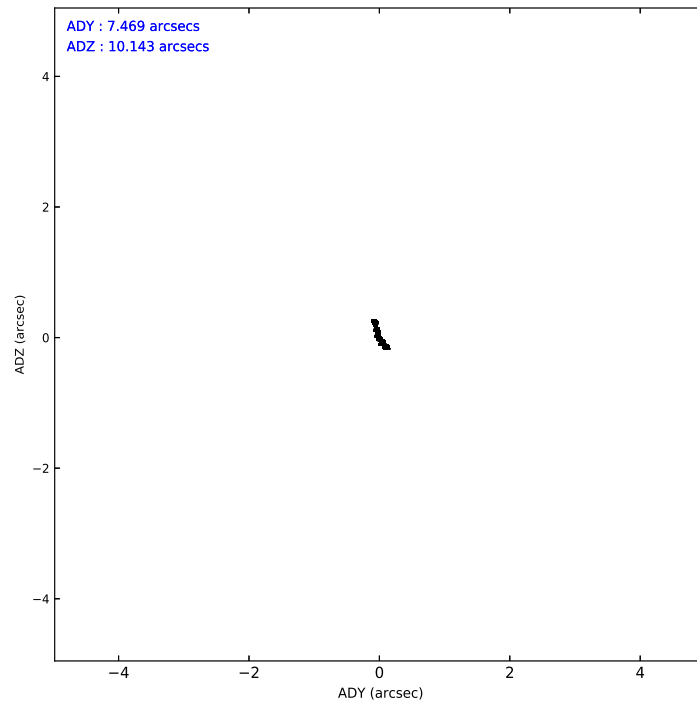
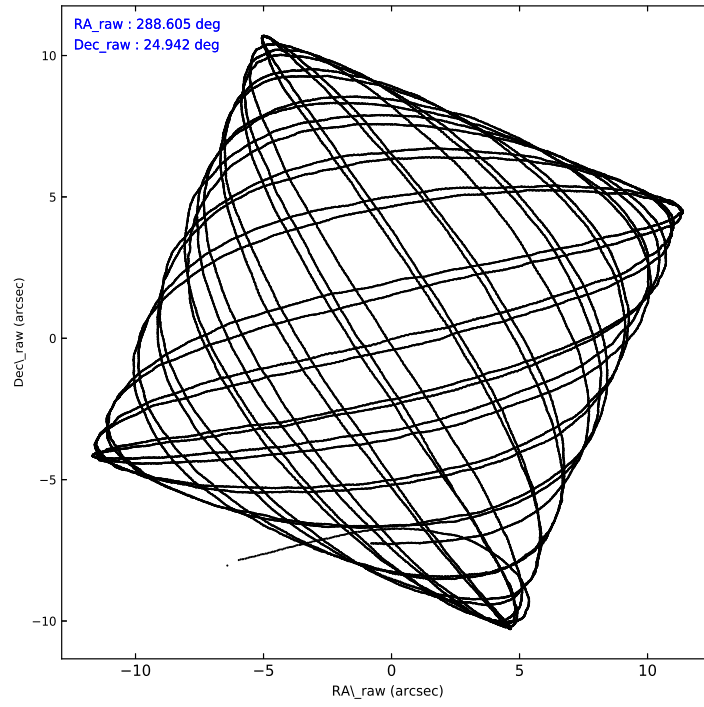
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2745	2464	33315	2240	5847	8228
	10%	9%	24%	8%	6%	15%
grade 1 events	188	87	124	64	140	146
	0%	0%	0%	0%	0%	0%
grade 2 events	8217	8533	32556	8200	19929	14457
	31%	32%	24%	30%	22%	27%
grade 3 events	2626	2971	1912	2698	3397	5136
	10%	11%	1%	10%	3%	9%
grade 4 events	2576	2624	1828	2586	3280	5021
	9%	9%	1%	9%	3%	9%
grade 5 events	4873	4763	9925	5160	12295	7264
	18%	17%	7%	19%	14%	13%
grade 6 events	4855	5135	53641	5510	42735	12566
	18%	19%	40%	20%	48%	23%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

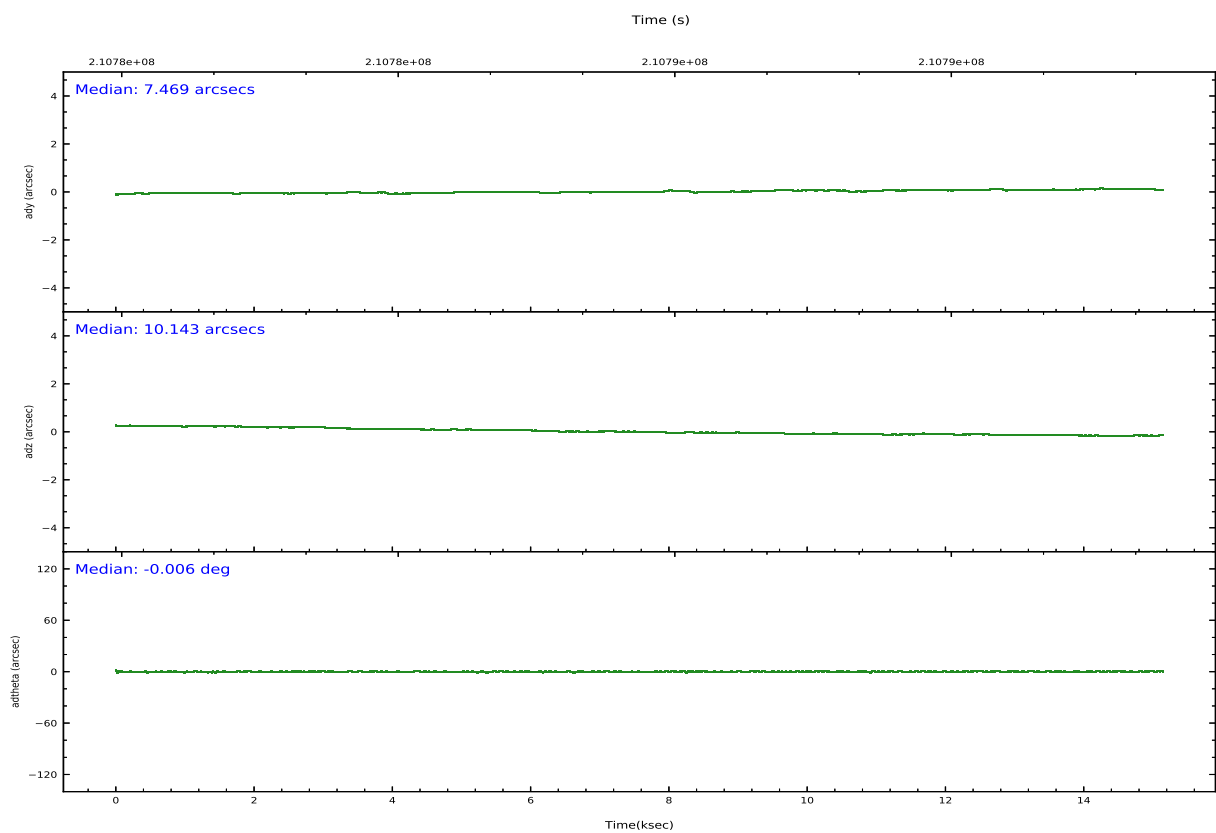
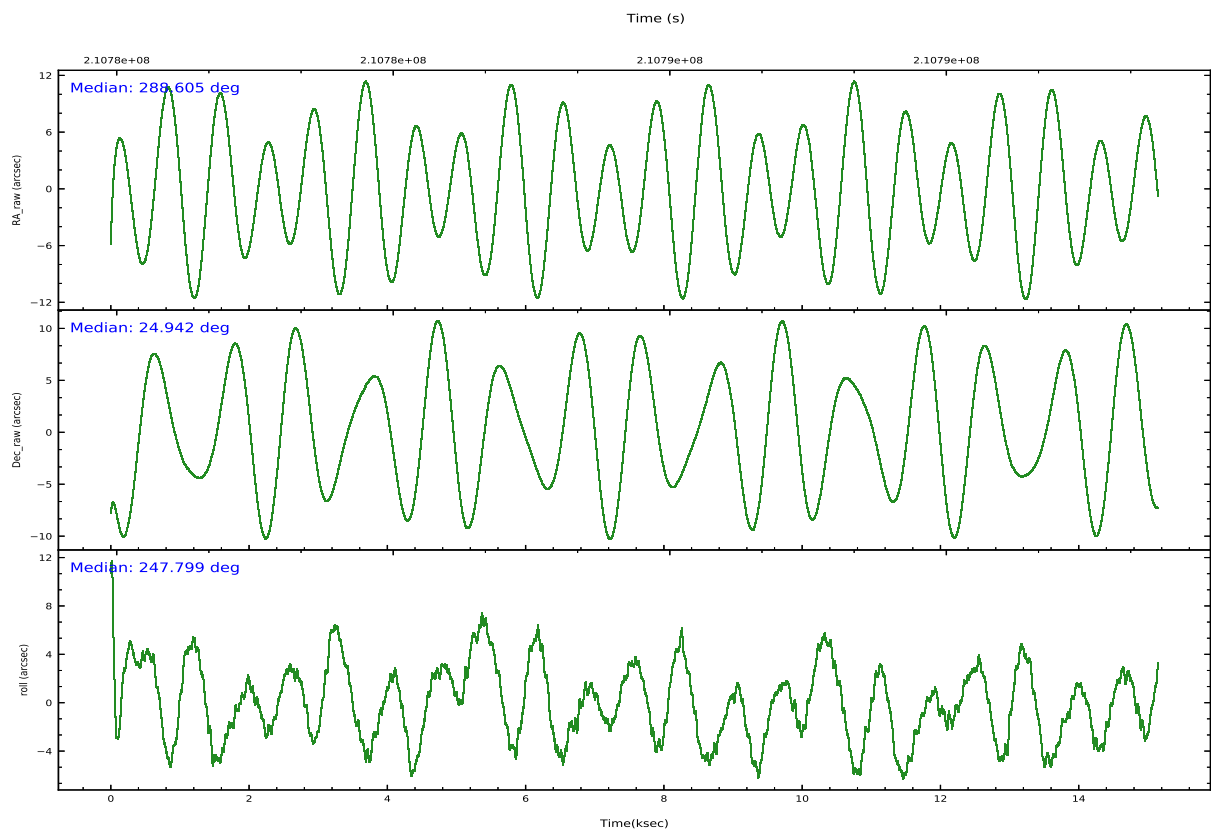


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	288.600876	288.60332917938	Subarray requested	NONE	NONE
[deg] Pointing Dec	24.969278	24.945477813931	Alternating exposures requested	N	N
[deg] Pointing Roll	247.643774	247.79890779988	[s] Primary exposure time	0.000000	0
[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)	210780064.184000	210778512.73213			
Observation start date	2004-09-05T14:00:00	2004-09-05T13:35:12			
[s] Observation end time (MET)	210795064.184000	210795829.08291			
Observation end date	2004-09-05T18:10:00	2004-09-05T18:23:49			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



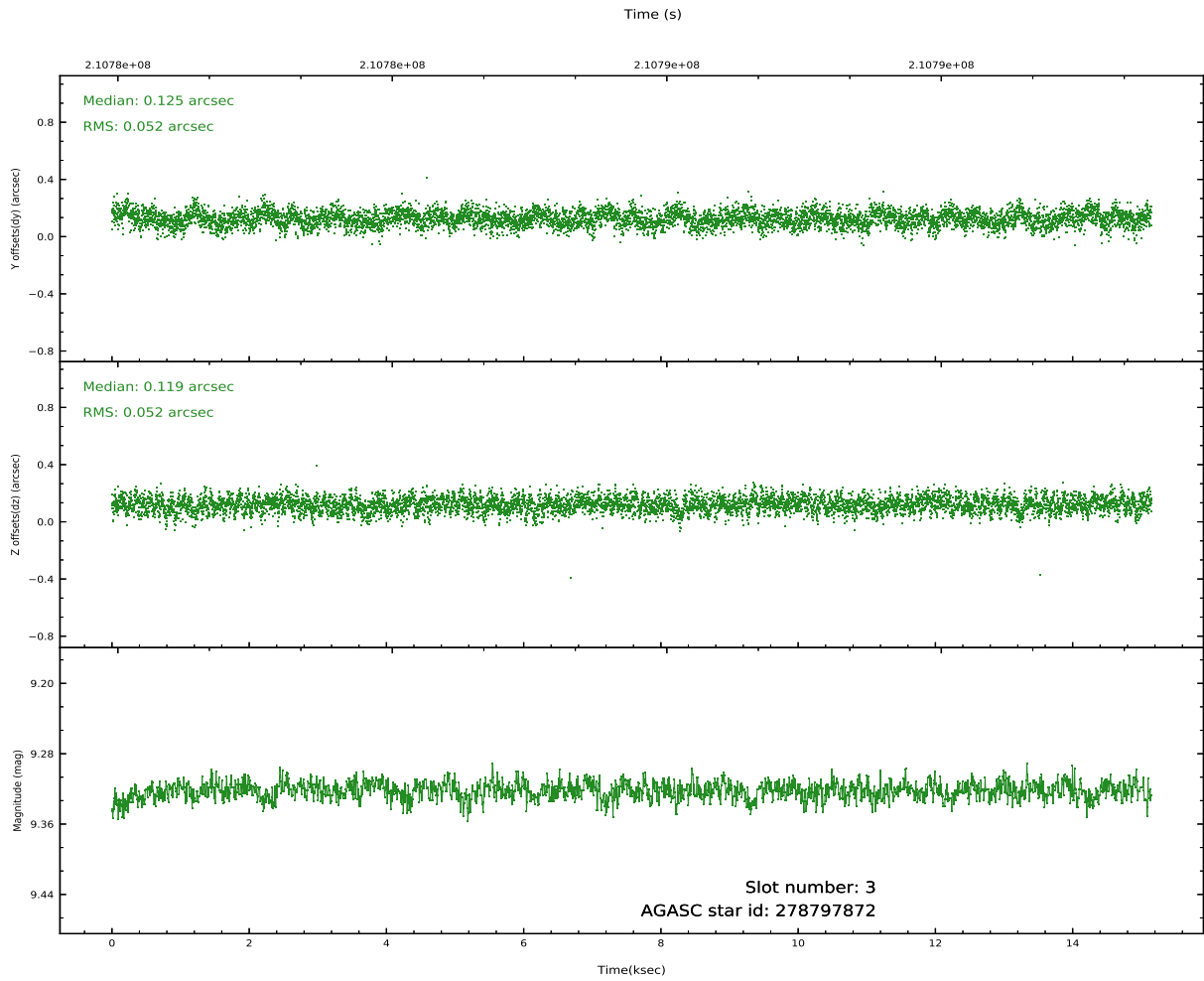
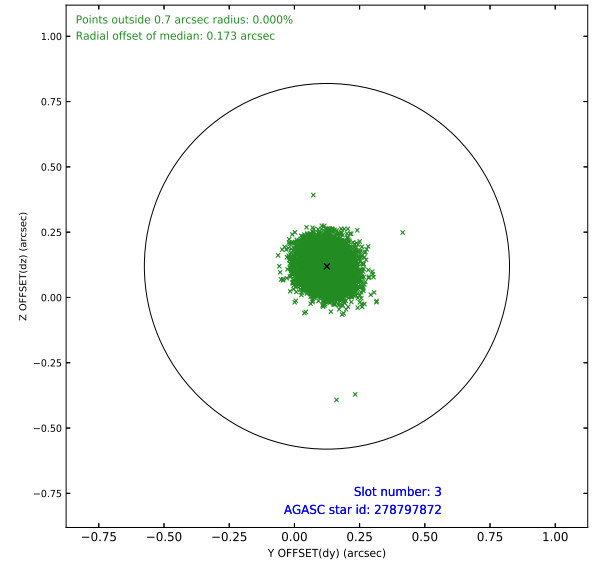
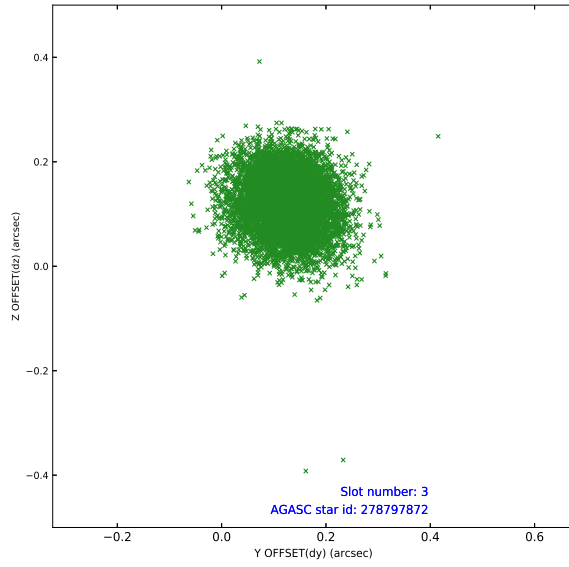


Slot Statistics

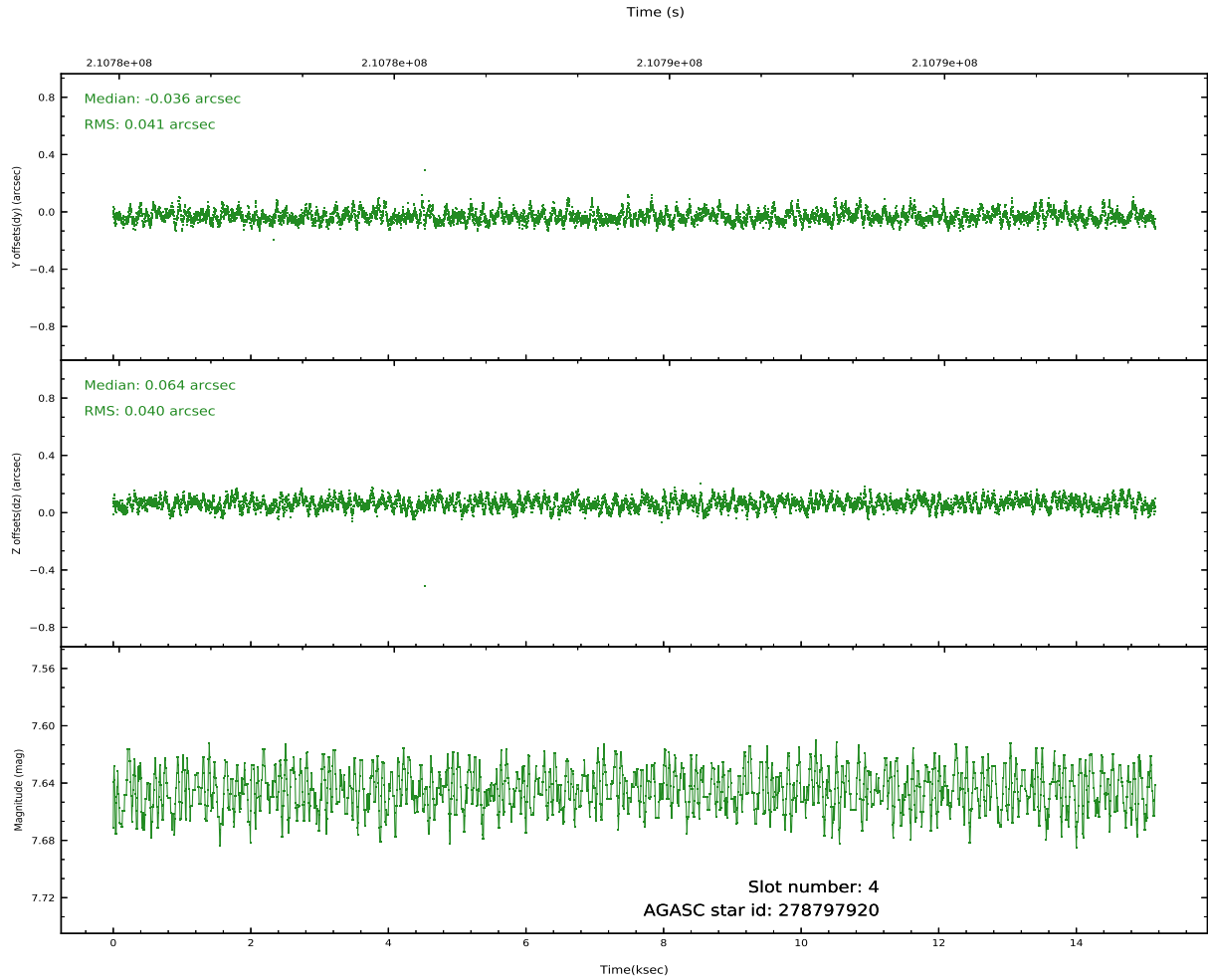
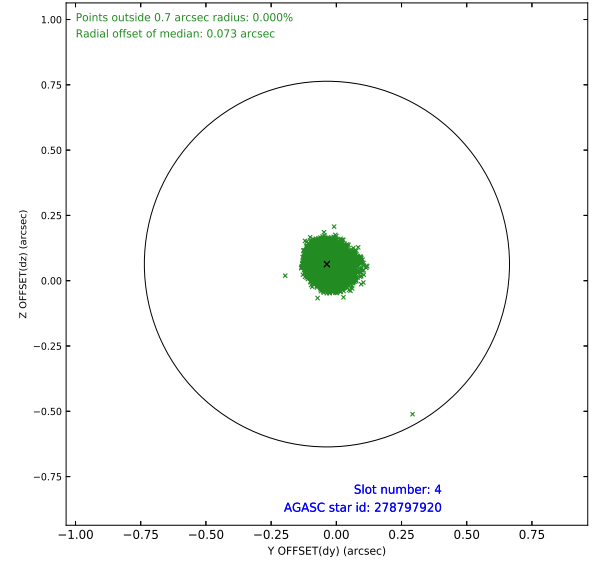
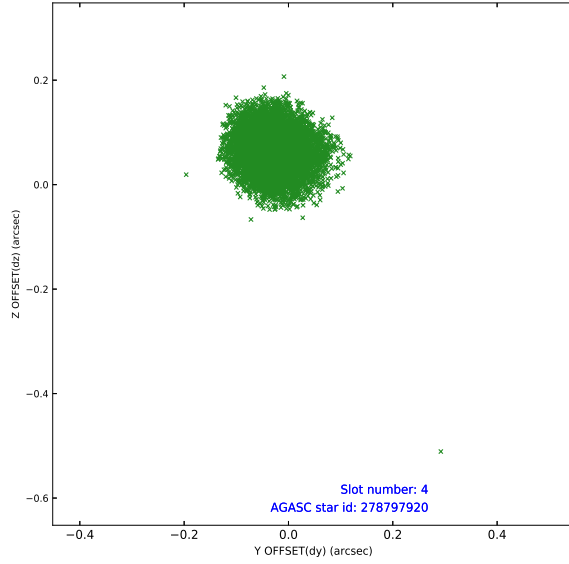
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3694	1.000	-0.079	-0.057	0.007	0.012	0.000000	0.000000	-760.26	-1731
1	FID		ACIS-S-4	7.21	3695	1.000	0.152	0.054	0.006	0.011	0.000000	0.000000	2153.04	176
2	FID		ACIS-S-5	7.23	3695	1.000	-0.104	0.012	0.007	0.013	0.000000	0.000000	-1812.81	170
3	GUIDE	used	278797872	9.32	7385	1.000	0.125	0.119	0.078	0.127	288.418074	24.631395	1352.58	-90
4	GUIDE	used	278797920	7.64	7389	1.000	-0.036	0.064	0.061	0.096	288.580174	25.013203	-120.06	-122
5	GUIDE	used	278802576	9.50	7385	1.000	0.061	-0.228	0.087	0.139	288.504248	24.563340	1472.14	263
6	GUIDE	used	278806384	9.45	7382	1.000	0.031	-0.044	0.087	0.148	288.649975	24.433815	1721.98	882
7	GUIDE	used	278954448	7.73	7388	1.000	-0.179	0.091	0.058	0.091	289.033961	24.779147	93.59	1568

## 2.4 Star Slots

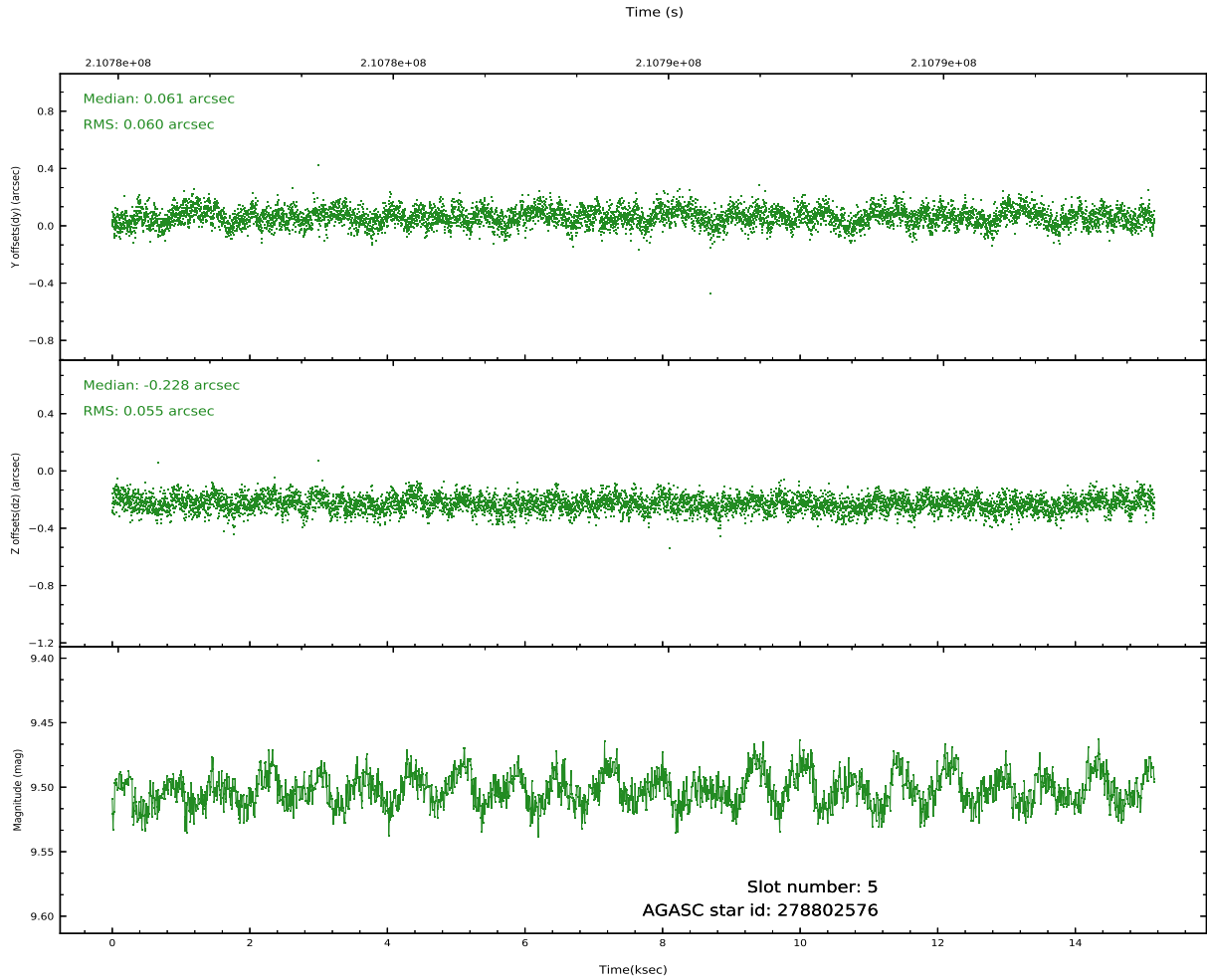
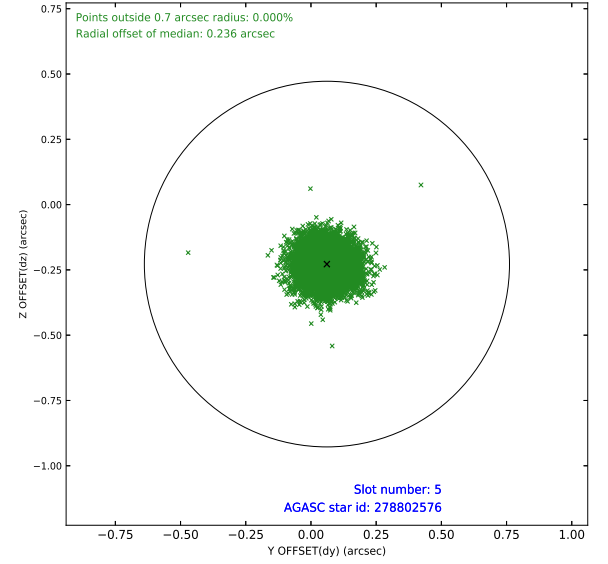
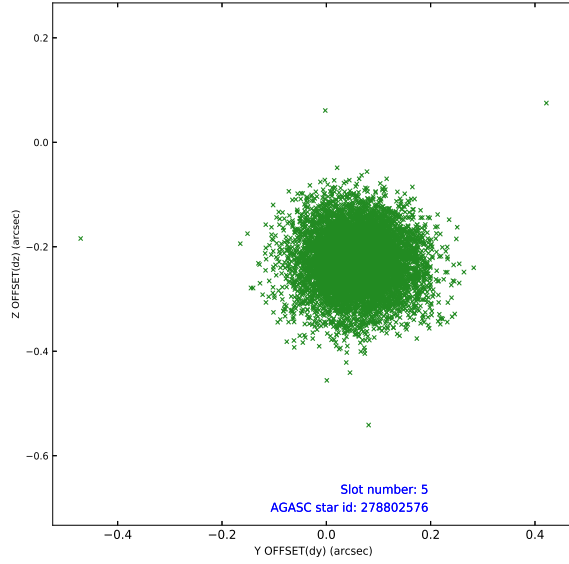
### 2.4.1 Slot 3



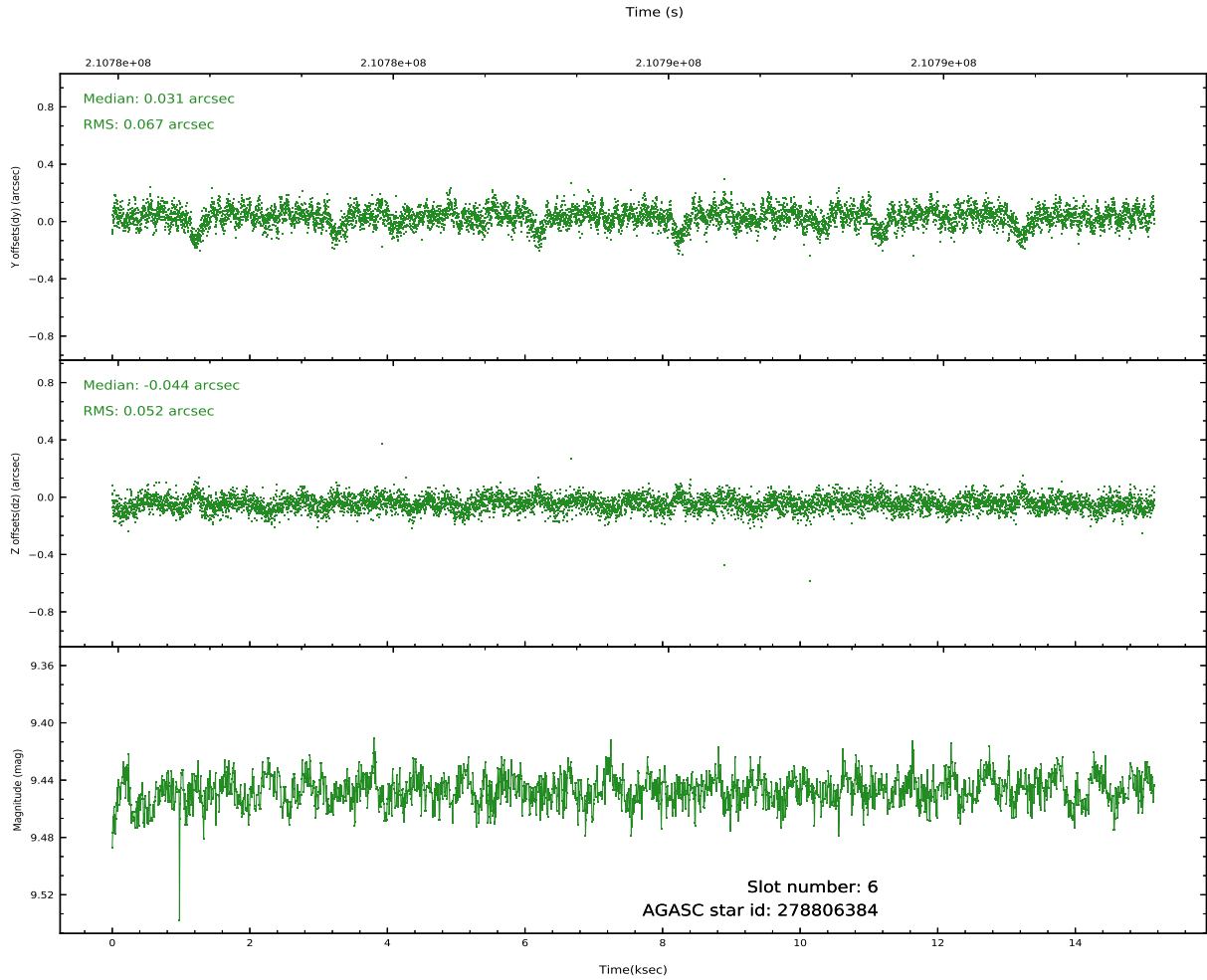
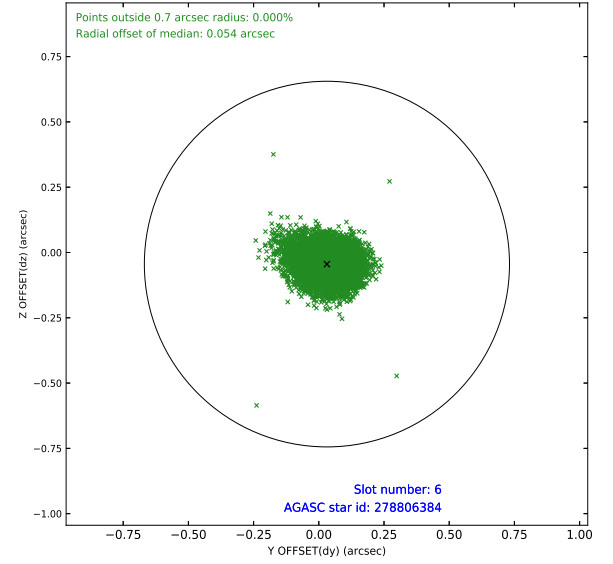
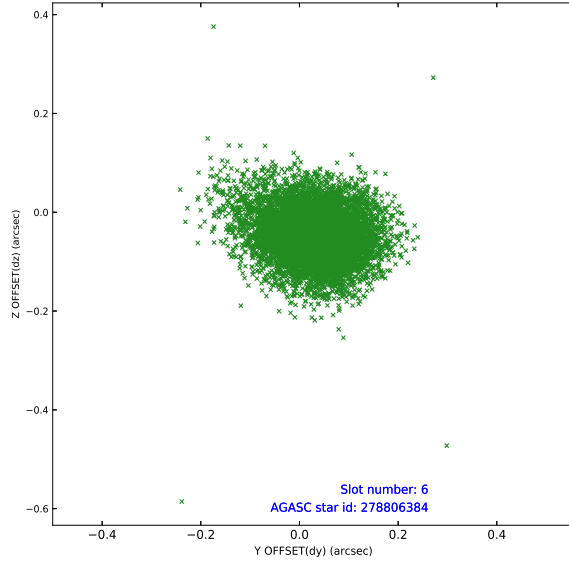
## 2.4.2 Slot 4



### 2.4.3 Slot 5

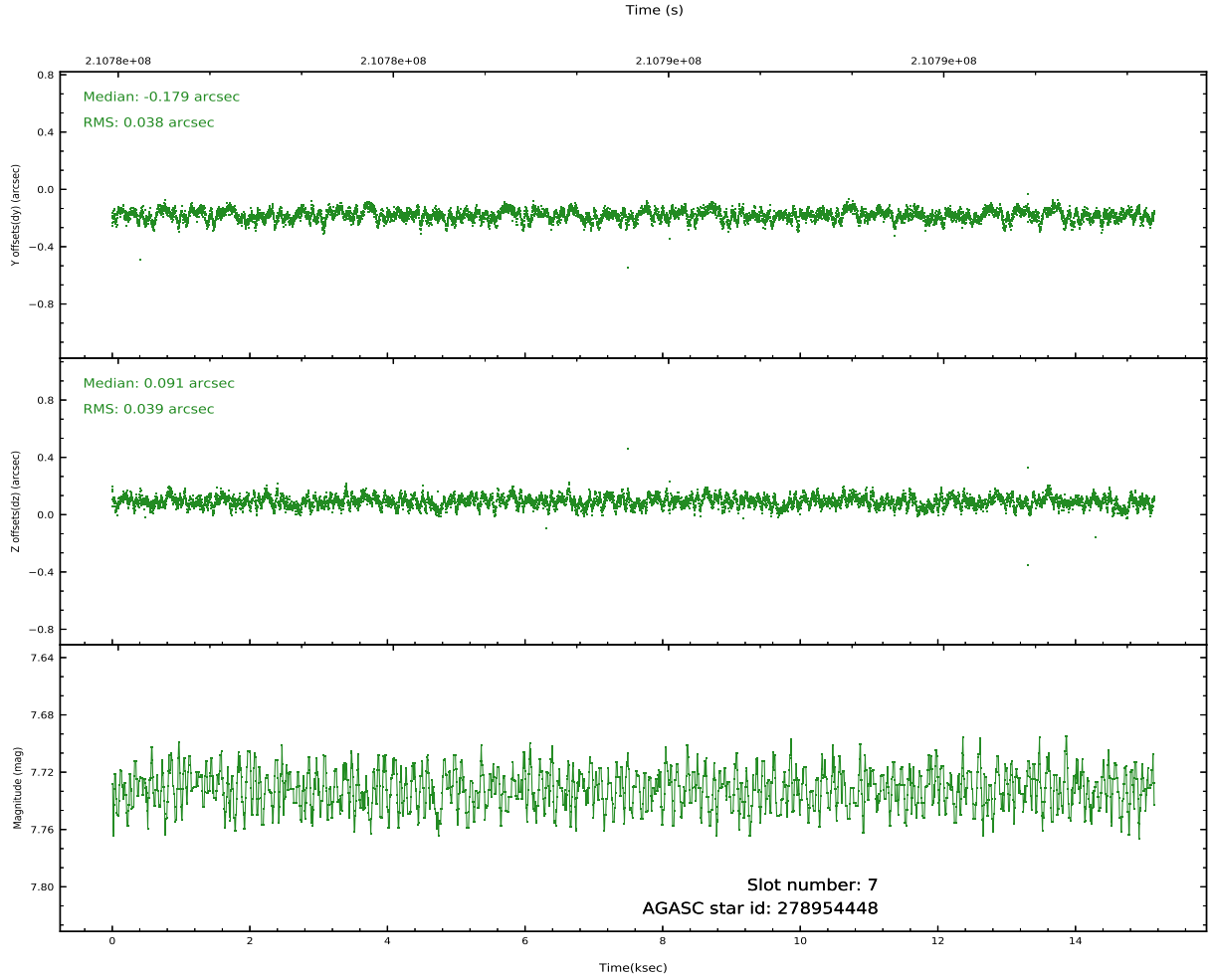
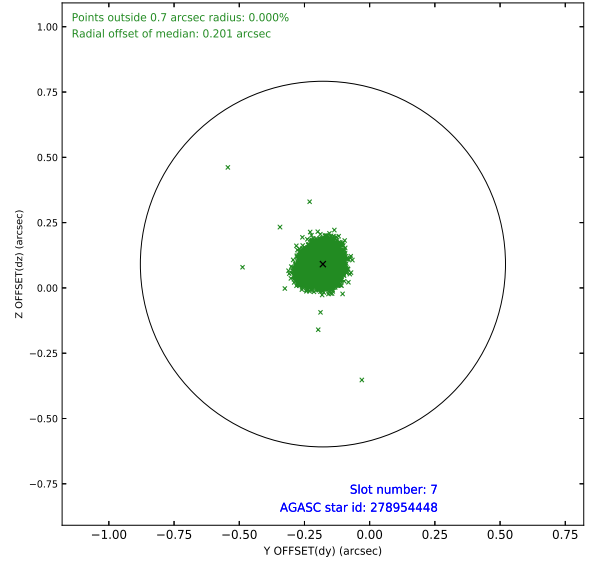
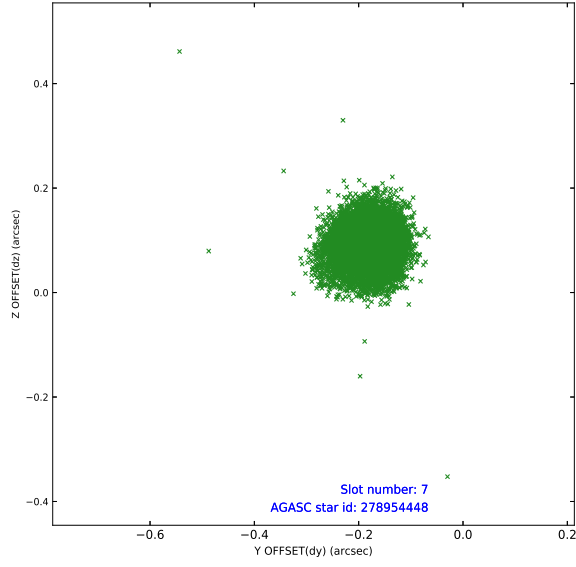


## 2.4.4 Slot 6



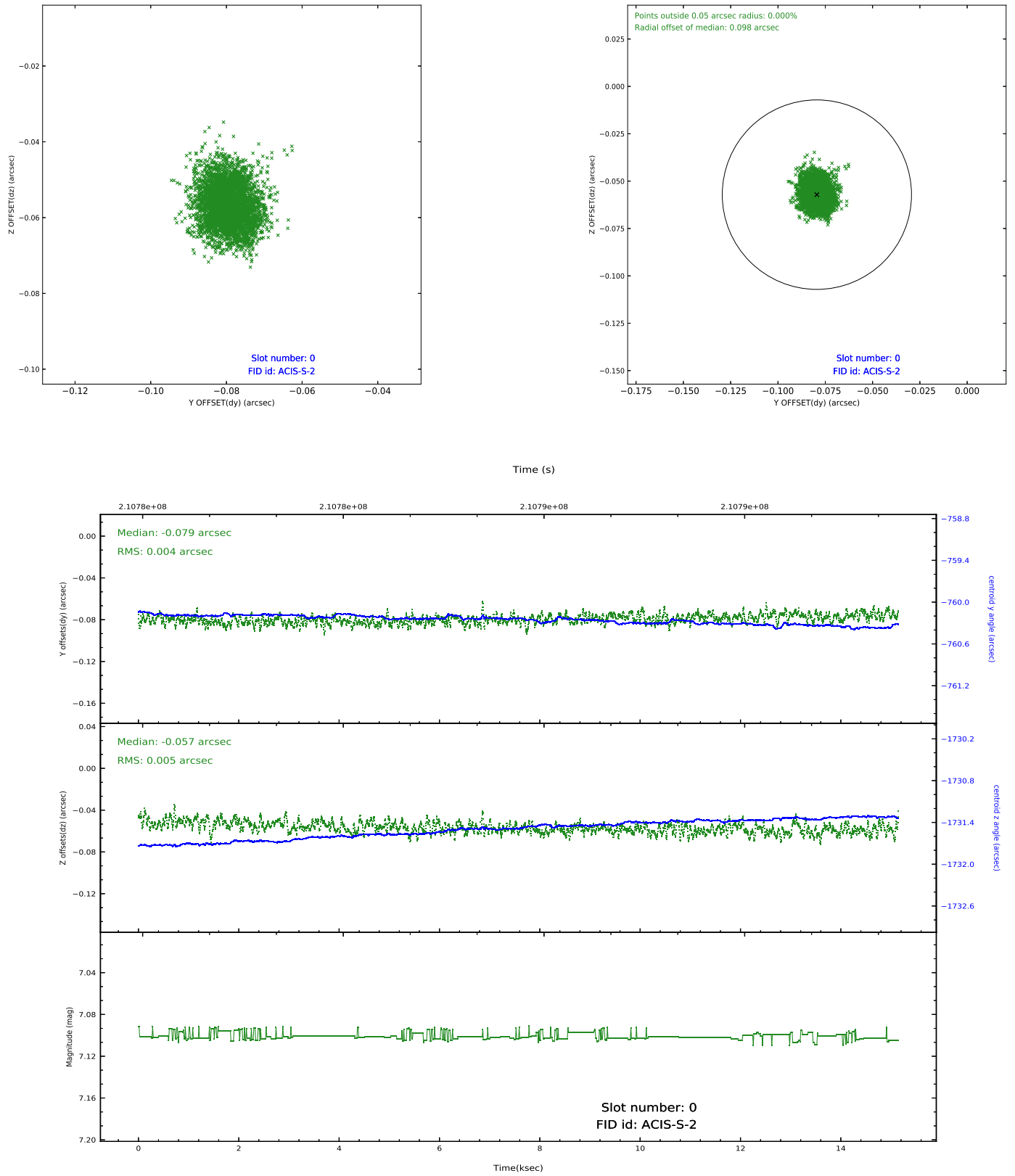


## 2.4.5 Slot 7

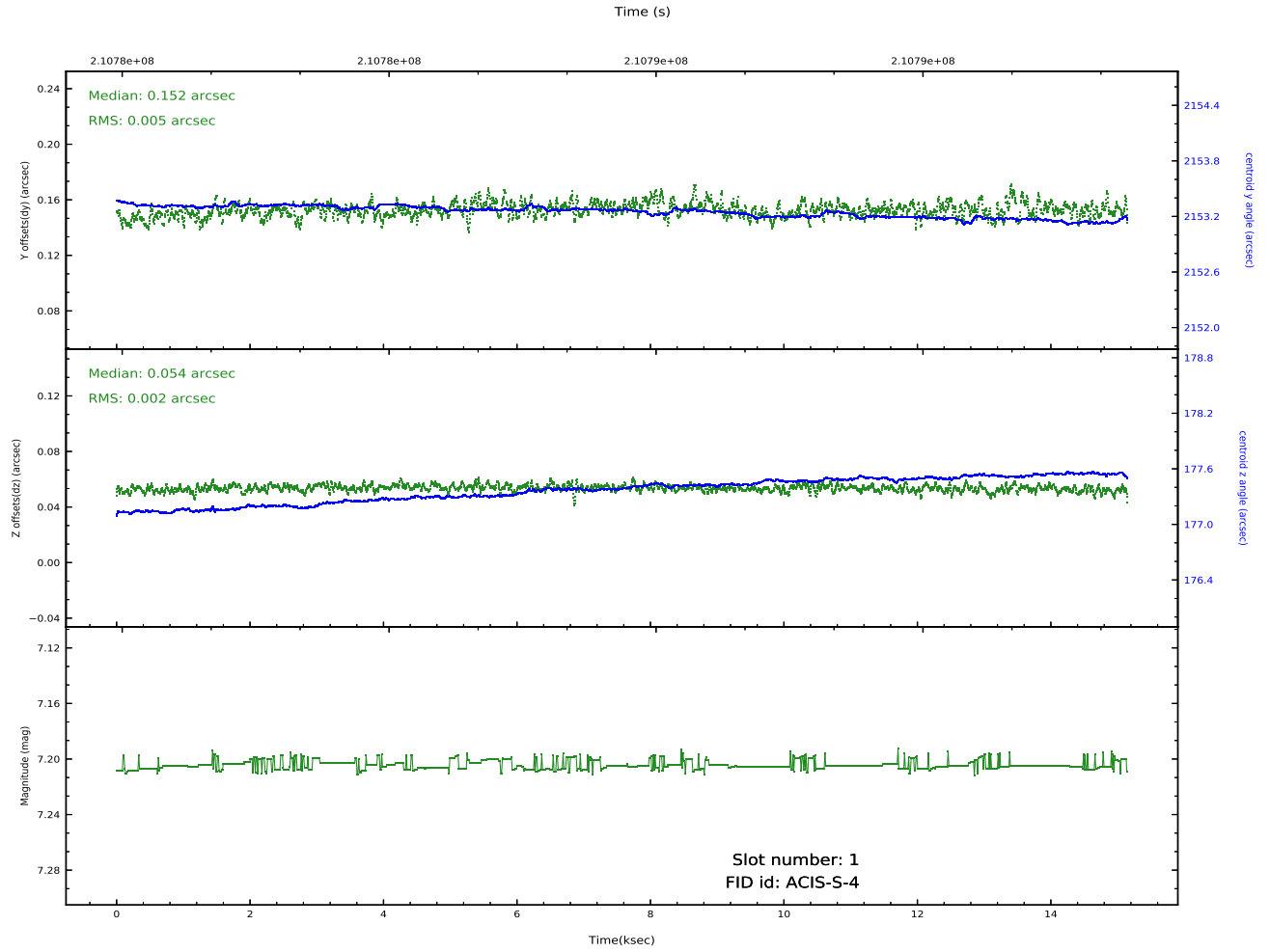
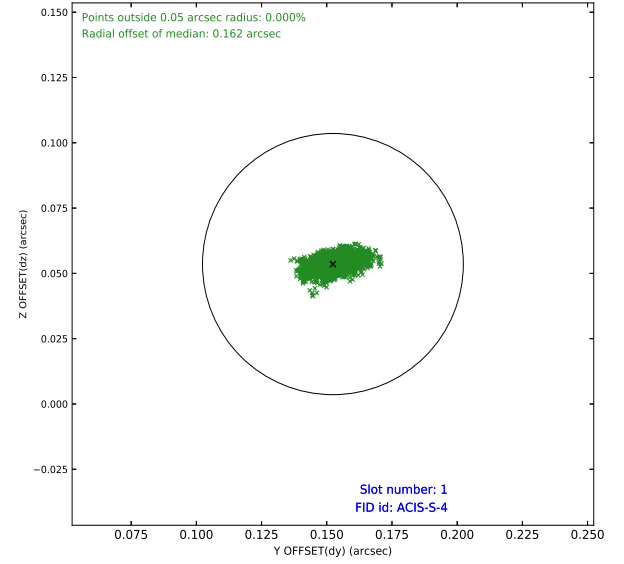
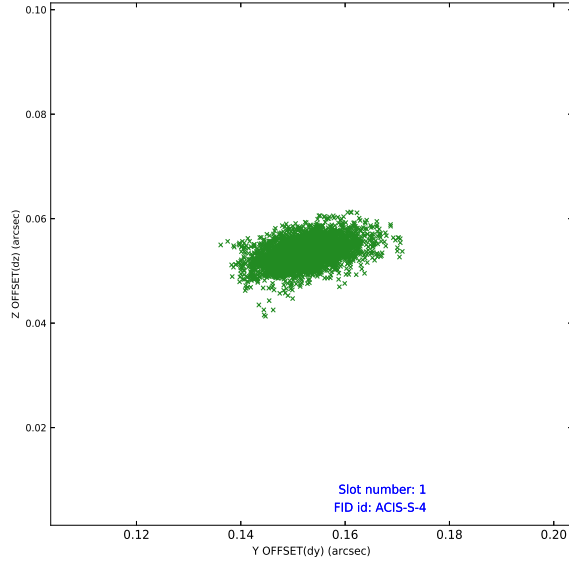


## 2.5 FID Slots

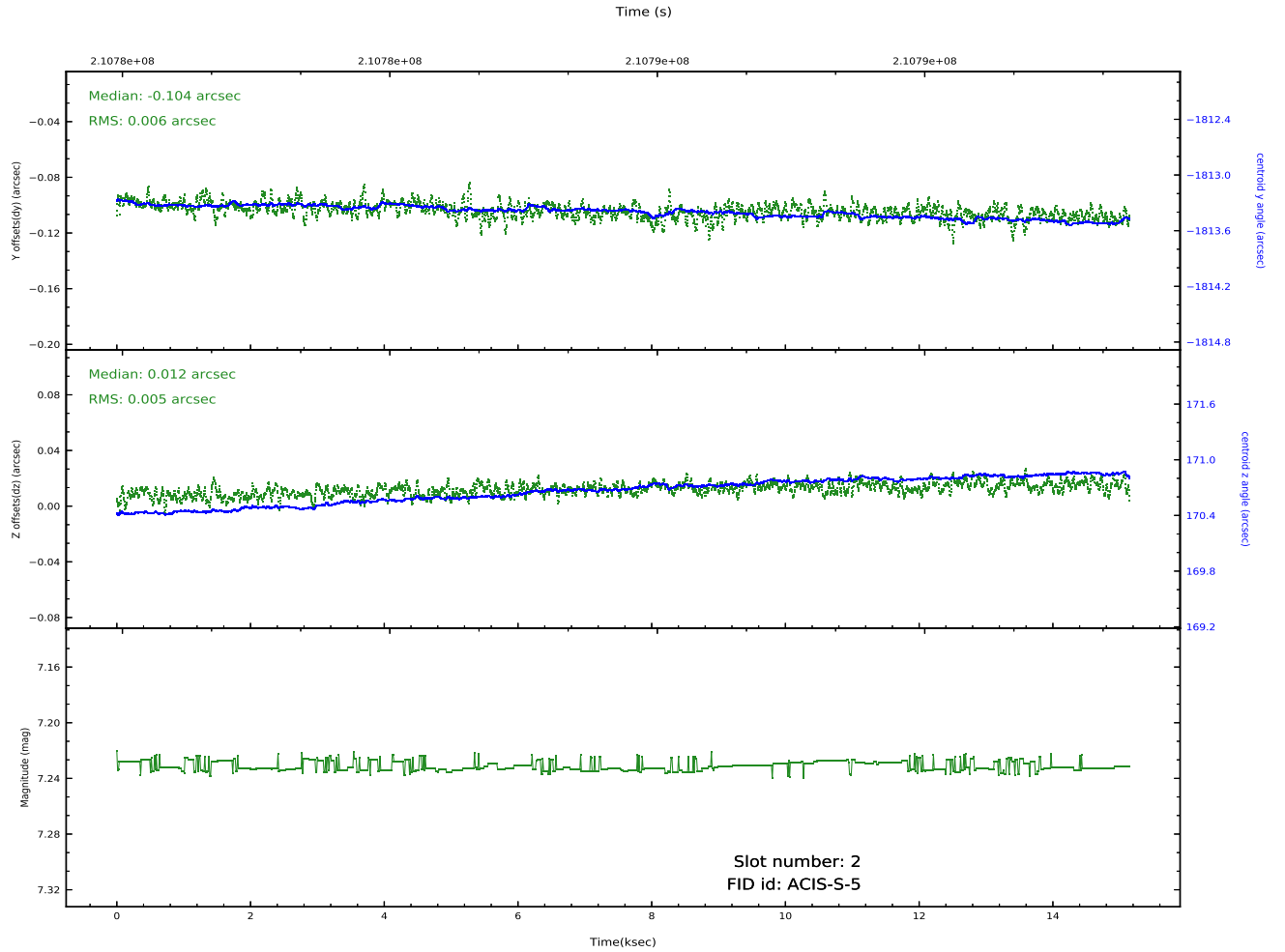
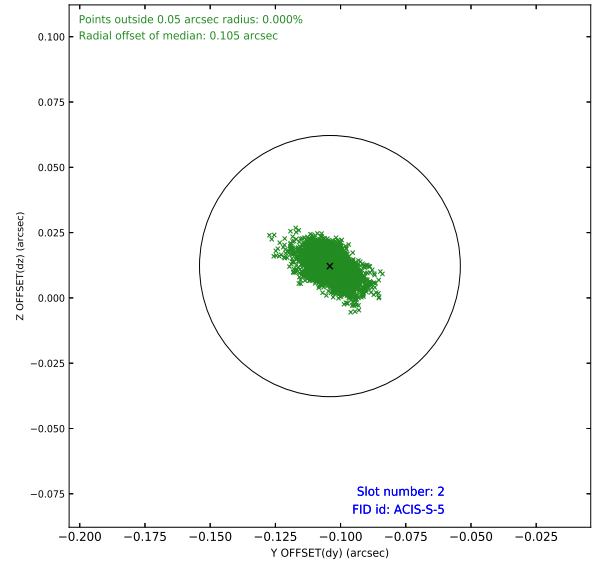
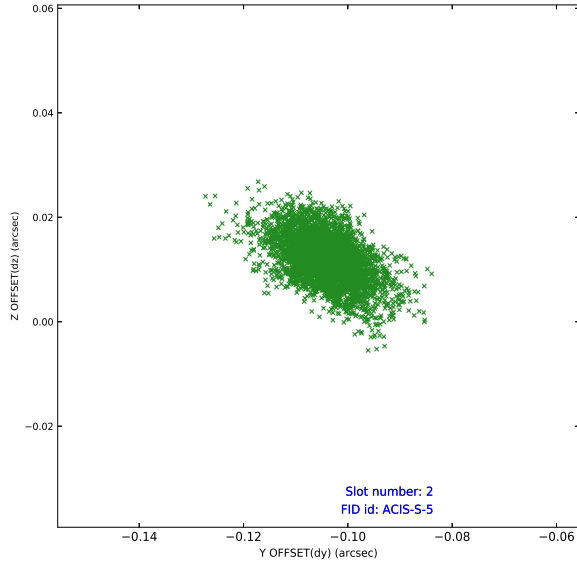
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



## **A Summary**

### **A.1 Status**

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.148

### **A.2 Comments**