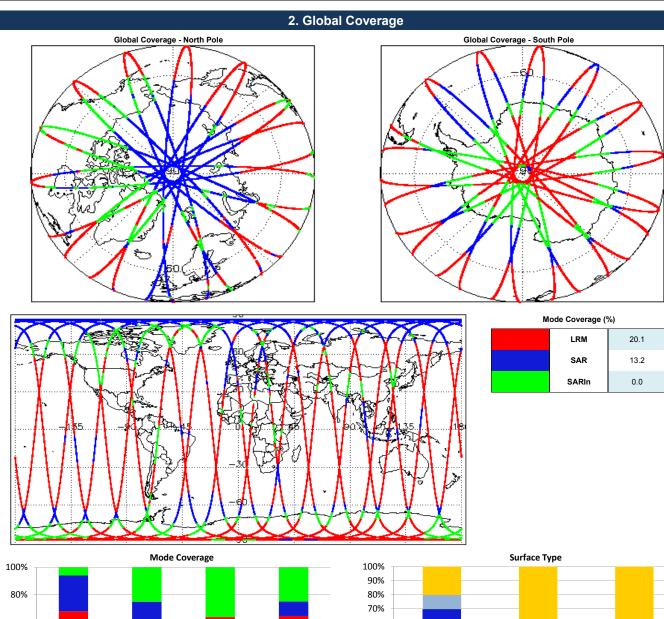
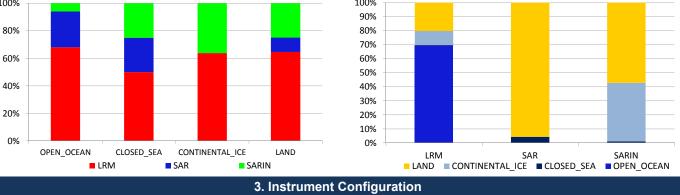


# IDEAS+ Daily Report for OFFLINE data:

## <u>18/06/2017</u>

1. Overview				
		Check	Status	
Report Production Date: 18-Jul-2017		Server check: science-pds.cryosat.esa.int	Nominal	
Description	One October Deserves	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Product Software Check	Nominal	
		Product Format Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Header Analysis	See Section 4.2 and 5.2	
•		Star Tracker Usage Check	Nominal	
		L1B Calibration Usage Check	Nominal	
		L1B & L2 Auxiliary Data File Usage Check	Nominal	
		L1B & L2 Auxiliary Correction Error Check	Nominal	
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5	
lission / Instrument News				
17-Jun-2017 None				
18-Jun-2017 None				
19-Jun-2017 Nothing planned				





The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIR

SIRAL - A

### 4. Level 1B Data Quality Check

### 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

#### Number of products with errors:

4.2 L1B Product Header Analysis	
For all products, a series of pre-defined checks are carried out on the MPH and SPH in order	er to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 1	
Product	Test Failed
CS_OFFL_SIR_SIN_1B_20170618T114049_20170618T114051_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
4.3 Star Tracker Usage Check	
Each product is checked in order to ensure a valid star tracker file has been used in process	sing.
Number of products with errors: 0	

### 4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing. Number of products with errors: 0

### 4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

#### Number of products with errors:

CS_OFEL_SIR_LRM_1B_201706181231610_201706181232147_C001	Product	Test Failed	Description
	CS_OFFL_SIR_LRM_1B_20170618T231610_20170618T232147_C001	IECDO Error IEK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

### 5. Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

### Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_SIN_220170618T114049_20170618T114051_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

#### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

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Product CS OFFL SIR LRM 2 20170618T000620 20170618T002705 C001 CS OFFL SIR LRM 2 20170618T002845 20170618T004257 C001 CS OFFL SIR LRM 2 20170618T005830 20170618T012053 C001 CS OFFL SIR LRM 2 20170618T012215 20170618T013038 C001 CS OFFL SIR LRM 2 20170618T015957 20170618T022124 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T023643\_20170618T030406\_C001 CS OFFL SIR LRM 2 20170618T033549 20170618T040128 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T043244\_20170618T044955\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T050329\_20170618T050354\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T050454\_20170618T050914\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T051231\_20170618T052340\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T054354\_20170618T054934\_C001 CS OFFL SIR LRM 2 20170618T055618 20170618T062924 C001 CS OFFL SIR LRM 2 20170618T064213 20170618T064324 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T064950\_20170618T065041\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T070203\_20170618T071910\_C001 CS OFFL SIR LRM 2 20170618T073459 20170618T081102 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T082100\_20170618T082246\_C001 CS OFFL SIR LRM 2 20170618T083301 20170618T083735 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T083818\_20170618T085554\_C001 CS OFFL SIR LRM 2 20170618T090521 20170618T090731 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T091459\_20170618T095100\_C001 CS OFFL SIR LRM 2 20170618T100323 20170618T102150 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T102244\_20170618T103612\_C001 CS OFFL SIR LRM 2 20170618T104441 20170618T104639 C001 CS OFFL SIR LRM 2 20170618T105352 20170618T110900 C001 CS OFFL SIR LRM 2 20170618T111101 20170618T112023 C001 CS\_OFFL\_SIR\_LRM\_2\_20170618T114221\_20170618T114511\_C001 CS OFFL SIR LRM 2 20170618T114627 20170618T115944 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T123327\_20170618T124804\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T132601\_20170618T135801\_C001 CS OFFL SIR LRM 2 20170618T140116 20170618T140330 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T140339\_20170618T140936\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T151008\_20170618T152024\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T152600\_20170618T153648\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T155207\_20170618T161300\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T161303\_20170618T162041\_C001 CS OFFL SIR LRM 2 20170618T162335 20170618T162844 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T164332\_20170618T165937\_C001 CS\_OFFL\_SIR\_LRM\_2\_20170618T170052\_20170618T171524\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T175517\_20170618T175634\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170618T180712\_20170618T180839\_C001 CS OFFL SIR LRM 2 20170618T182150 20170618T185503 C001

Test Failed Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)

Description There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords No DEM or Slope Model was used for the location of one or more records. No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords

CS_OFFL_SIR_LRM_220170618T191044_20170618T192832_C001
CS_OFFL_SIR_LRM_220170618T193146_20170618T193657_C001
CS_OFFL_SIR_LRM_220170618T195930_20170618T203337_C001
CS_OFFL_SIR_LRM_220170618T204146_20170618T204558_C001
CS_0FFL_SIR_LRM_220170618T205041_20170618T211626_C001
CS_0FFL_SIR_LRM_220170618T211649_20170618T212421_C001
CS_OFFL_SIR_LRM_220170618T213647_20170618T215114_C001
CS_OFFL_SIR_LRM_220170618T215555_20170618T215727_C001
CS_OFFL_SIR_LRM_220170618T215737_20170618T221305_C001
CS_OFFL_SIR_LRM_220170618T223150_20170618T22412_C001
CS_0FFL_SIR_LRM_220170618T224618_20170618T230343_C001
CS_OFFL_SIR_LRM_220170618T232545_20170618T233516_C001
CS_OFFL_SIR_LRM_220170618T233718_20170618T235158_C001
CS_OFFL_SIR_SIN_220170618T004344_20170618T004531_C001
CS_OFFL_SIR_SIN_220170618T005106_20170618T005113_C001
CS_OFFL_SIR_SIN_220170618T005217_20170618T005707_C001
CS_OFFL_SIR_SIN_220170618T022340_20170618T022612_C001
CS_OFFL_SIR_SIN_220170618T022948_20170618T022955_C001
CS_OFFL_SIR_SIN_220170618T023326_20170618T023519_C001
CS_OFFL_SIR_SIN_220170618T040222_20170618T040355_C001
CS_OFFL_SIR_SIN_220170618T040902_20170618T040908_C001
CS_OFFL_SIR_SIN_220170618T041236_20170618T041407_C001
CS_OFFL_SIR_SIN_220170618T054237_20170618T054354_C001
CS_OFFL_SIR_SIN_220170618T054934_20170618T055028_C001
CS_OFFL_SIR_SIN_220170618T055136_20170618T055251_C001
CS_OFFL_SIR_SIN_220170618T072153_20170618T072318_C001
CS_OFFL_SIR_SIN_220170618T072828_20170618T073135_C001
CS_OFFL_SIR_SIN_220170618T090229_20170618T090521_C001
CS_OFFL_SIR_SIN_220170618T090731_20170618T091254_C001
CS_OFFL_SIR_SIN_220170618T095822_20170618T100246_C001
CS_OFFL_SIR_SIN_220170618T104206_20170618T104441_C001
CS_OFFL_SIR_SIN_220170618T104640_20170618T104800_C001
CS_OFFL_SIR_SIN_220170618T105141_20170618T105321_C001
CS_OFFL_SIR_SIN_220170618T113720_20170618T113831_C001
CS_OFFL_SIR_SIN_220170618T113959_20170618T114045_C001
CS_OFFL_SIR_SIN_220170618T121913_20170618T122257_C001
CS_OFFL_SIR_SIN_220170618T123043_20170618T123229_C001
CS OFFL SIR SIN 2 20170618T140330 20170618T140339 C001
CS_OFFL_SIR_SIN_220170618T140936_20170618T141151_C001
CS_OFFL_SIR_SIN_220170618T145135_20170618T145205_C001
CS_OFFL_SIR_SIN_220170618T153900_20170618T154039_C001
CS OFFL SIR SIN 2 20170618T154157 20170618T154326 C001
CS_OFFL_SIR_SIN_2201706181754746_201706181755037_C001
CS_OFFL_SIR_SIN_2201706181171857_201706181172236_C001
CS_OFFL_SIR_SIN_220170618171816_201706181712230_C001
CS_OFFL_SIR_SIN_2201706181180908_201706181180956_C001

Height Error (Retracker 2), Backscatter
Error (Retracker 2) Height Error (Retracker 3),
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error
(Retracker 2) Surface Model Unavailable
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error
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(Retracker 3), Backscatter Error (Retracker 2)
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SARIn X-track Angle Error
SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error, Surface
Model Unavailable
SARIn X-track Angle Error
SARIn X-track Angle Error
SARIn X-track Angle Error
SARIn X-track Angle Error, Surface Model Unavailable
SARIn X-track Angle Error
SARIn X-track Angle Error SARIn X-track Angle Error, Surface
Model Unavailable

There is a height and backscatter error for Retracker 2 for one or more records
#N/A
There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
No DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more records
There is a height and backscatter error for Retracker 2 for one or more records
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Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more
records An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more
records An ambiguous angle was detected for SARIn mode for one or more
records An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records

CS_OFFL_SIR_SIN_220170618T185823_20170618T190140_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T190652_20170618T190818_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T203536_20170618T203922_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T204558_20170618T204705_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T212454_20170618T212632_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T212816_20170618T212930_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T221342_20170618T221519_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T222302_20170618T222448_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170618T230343_20170618T230844_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220170618T235259_20170618T235444_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

# 6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_LRM_1B	127	127	127	0	0
SIR_LRM_2	127	127	127	0	0
SIR_LRMI2_	127	127	127	0	0
SIR_SAR_1B	97	97	97	0	0
SIR_SAR_2	97	97	97	0	0
SIR_SARI2_	97	97	97	0	0
SIR_SIN_1B	104	104	104	0	0
SIR_SIN_2	104	104	104	0	0
SIR_SINI2	104	104	104	0	0
SIR_GDR_2	13	13	13	0	0

### 6.1 QCC Errors

Number of products with QCC errors:

6.2 QCC Warnings	
Number of QCC reports with warnings	0

0

159

## 6.2 Missing QCC Reports

Number of products with missing QCC reports: