

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800275901

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TEST REPORT

Application No.: SZCR2308002759AT

Applicant: Baicells Technologies Co., Ltd.

Address of Applicant: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

Manufacturer: Baicells Technologies Co., Ltd.

Address of Manufacturer: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

Equipment Under Test (EUT):

EUT Name: 5G NR Base Station **Model No.:** BSC7048A243

Trade Mark: Baicells

 FCC ID:
 2AG32BSC7048A243

 Standard(s):
 FCC 47 CFR Part 96

KDB 940660 D01 V03 CBRSA-TS-9001-V1.2.1 WINNF-TS-0122-V1.0.2

Date of Receipt: 2023-08-25

Date of Test: 2023-08-25 to 2023-09-05

Date of Issue: 2023-09-08

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier Remai						
01		2023-09-08		Original			

Authorized for issue by:		
	Benson Wome	
	Benson Wang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary

Test Summary for Standalone CBSD				
Item	Standard	Test Case ID	Result	
Multi-Step registration	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.1	Pass	
Single-Step registration for CBSD with CPI signed data	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.5	Pass	
Missing Required parameters (responseCode 102)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.8	Pass	
Pending registration (responseCode 200)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.10	Pass	
Invalid parameter (responseCode 103)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.12	Pass	
Blacklisted CBSD (responseCode 101)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.14	Pass	
Unsupported SAS protocol version (responseCode 100)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.16	Pass	
Group Error (responseCode 201)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.REG.18	Pass	
Unsuccessful Grant responseCode=400 (INTERFERENCE)	WINNF-TS-0122-V1.0.2	WINNF.FT.D.GRA.1	Pass	
Unsuccessful Grant responseCode=401 (GRANT_CONFLICT)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.GRA.2	Pass	
Heartbeat Success Case (first Heartbeat Response)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.1	Pass	
Heartbeat responseCode=105 (DEREGISTER)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.3	Pass	
Heartbeat responseCode=500 (TERMINATED_GRANT)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.4	Pass	
Heartbeat responseCode=501 (SUSPENDED_GRANT) in First Heartbeat Response	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.5	Pass	
Heartbeat responseCode=501 (SUSPENDED_GRANT) in Subsequent Heartbeat Response	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.6	Pass	
Heartbeat responseCode=502 (UNSYNC_OP_PARAM)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.7	Pass	
Heartbeat Response Absent (First Heartbeat)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.9	Pass	
Heartbeat Response Absent (Subsequent Heartbeat)	WINNF-TS-0122-V1.0.2	WINNF.FT.C.HBT.10	Pass	
Successful Relinquishment	WINNF-TS-0122-V1.0.2	WINNF.FT.C.RLQ.1	Pass	
Successful Deregistration	WINNF-TS-0122-V1.0.2	WINNF.FT.C.DRG.1	Pass	



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Test Summary for Standalone CBSD				
Item	Standard	Test Case ID	Result	
Successful TLS connection between UUT and SAS Test Harness	WINNF-TS-0122-V1.0.2	WINNF.FT.C.SCS.1	Pass	
TLS failure due to revoked certificate	WINNF-TS-0122-V1.0.2	WINNF.FT.C.SCS.2	Pass	
TLS failure due to expired server certificate	WINNF-TS-0122-V1.0.2	WINNF.FT.C.SCS.3	Pass	
TLS failure when SAS Test Harness certificate is issue by unknown CA	WINNF-TS-0122-V1.0.2	WINNF.FT.C.SCS.4	Pass	
TLS failure when certificate at the SAS Test Harness is corrupted	WINNF-TS-0122-V1.0.2	WINNF.FT.C.SCS.5	Pass	
UUT RF Transmit Power Measurement	WINNF-TS-0122-V1.0.2	WINNF.PT.C.HBT	Pass	
SAS Version: 1.0.0.3				

The UUT is a BTS-CBSD which can operate as standalone CBSD. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

CBRSA-TS-9001-V1.2.1

CBRS Alliance Certification Test Plan

WINNF-TS-0122-V1.0.2

Test and Certification for Citizens Broadband Radio Service (CBRS); Conformance and Performance Test Technical Specification; CBSD/DP as Unit Under Test (UUT)

KDB 940660 D01 Part 96 CBRS Egpt v03

This original certification of this CBSD is based on DP SAS, and the updated software version is chang ed to support the standalone CBSD SAS function. Other radio frequency parts remain unchanged.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter Model: HEP-480-54		
	INPUT: 100-240V, 5.5A-2.2A, 50/60Hz		
	OUTPUT: +54V === 8.9A		
	Rated Power:480.6W		
Sample Type:	Fixed device		
CBSD Class:	В		
Transmitter Frequency Band:	N48		
Transmitter Frequency Range:	3550~3700MHz		
Hardware Version:	Ver.A		
Software Version:	BaiBNQ_2.4.9		
Test sample:	1202000577233VB0002		
Antenna Gain:	13dBi		
MIMO supported	2*2		
Antenna Type:	External Antenna		



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4.2 Description of CBSD/DP Support Features

Condition	Feature Description	Supported
C1	Mandatory for UUT which supports multi-step registration message.	Υ
C2	Mandatory for UUT which supports single-step registration with no CPI- signed data in the registration message. By definition, this is a subset of Category A devices which determine all registration information, including location, without CPI intervention.	N
C3	Mandatory for UUT which supports single-step registration containing CPI- signed data in the registration message.	Y
C4	Mandatory for UUT which supports RECEIVED_POWER_WITHOUT_GRANT measurement report type.	N
C5	Mandatory for UUT which supports RECEIVED_POWER_WITH_GRANT measurement report type.	N
C6	Mandatory for UUT which supports parameter change being made at the UUT and prior to sending a deregistration.	N

Y: Supported N: Not supported



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4.3 Summary of Test Results

WINNF-TS-0122						
Classes Test Case Items Pass Items Pass Rate (%)						
FT (CBSD, DP/CBSD)	25	25	100			
PT (CBSD, DP/CBSD)	1	1	100			
Total	26	26	100			

Note:

- 1. Functional Test (FT): Test to validate the conformance of the Protocols and functionalities implemented in the CBSD/DP UUT to the requirements developed by WInnForum and supporting FCC/DoD requirements.
- 2. Field/Performance Test (PT): Test to check the capability of the CBSD/DP UUT to support various traffic models and actual operations in the field.

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	RF conducted power	± 0.75dB
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%

4.5 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Mobile Phone	OSOM	SAGA	/	
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052	
Router	TP-LINK	TL-R860+	1175379002425	



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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Laptop (With SAS Test hamess)	Samsung	930XCJ	REF. No.SEA1900	1	/
Spectrum Analyzer	Keysight	N9020A	SEM004-21	2023-03-20	2024-03-19
Shield Room	SAEMC	MSR433	SEM001-11	2021-03-13	2024-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-11	2024-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Splitter	MACOM	2090-6214-00	N/A	N/A	N/A
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2022-09-27	2023-09-26



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Test Method and Environment 6

6.1 **CBSD/DP Conformance and Performance**

CBRS CBSD Test Specification WINNF-TS-0122-V1.0.2 Test Requirement: CBRS CBSD Test Specification WINNF-TS-0122-V1.0.2 Test Method:

WINNF-IN-0156_WInnForum_SAS_Test_Harness_CBSD_UUT_Tutorial_

v1 0 0 1

6.2 CBSD Test Procedure

- a. Connect the UUT to SAS Test Harness system and RF Test instruments via the DP interface and RF components. The highest level is set to test configuration.
- b. UUT shall be UTC time synchronized
- c. The frequency band is granted and set as UUT supported Modulation and Channels, transmitted power of the UUT according to it granted parameters from the SAS Test Harness.
- d. Each test case results were recorded and validated by SAS Test Harness system and RF instruments test cases was recorded test results from SAS Test Harness system.



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6.3 Test Environment

Test Harness Version: V1.0.0.3

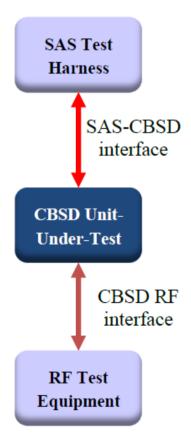
Operating System: Microsoft Windows 10

TLS Version: 1.2 Python Version: 2.7.13

Environmental Conditions: 25deg. C, 65%RH Input Power: 120Vac, 60Hz

6.4 Test Setup

- 1) DP is deployed on the network management, and the registration of DP to SAS is to register with SAS according to the granularity of CBSD ID;
- 2) The DP and the network element communicate messages according to the cell granularity, and each CBSDID corresponds to a cell of an RRU which belongs to a base station.



CBSD as UUT, BTS-CBSD communication with SAS



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Test Data

CBSD Registration Process

7.1.1 WINNF.FT.C.REG.1

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with the SAS Test Harness 	!	
	UUT is in the Unregistered state		
	CBSD sends correct Registration request information, as specified in [n.5], to the SAS Test Harness:		
	 The required userId, fccId and cbsdSerialNumber registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges. 		
2	 Any REG-conditional or optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges. 	Pass	Fail
	Note: It is outside the scope of this document to test the Registration information that is supplied via another means.		
3	SAS Test Harness sends a CBSD Registration Response as follows: - cbsdld = C - measReportConfig shall not be included - responseCode = 0		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:	■ Pass	□ Fail
	UUT shall not transmit RF	i ass	ı alı



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7.1.2 WINNF.FT.C.REG.5

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT is in the Unregistered state 		
	 All of the required and REG-Conditional parameters shall be configured and CPI signature provided 		
	CBSD sends Registration request to the SAS Test Harness:		
2	 The required userId, fccId and cbsdSerialNumber and REG-Conditional cbsdCategory, airInterface, measCapability and cpiSignatureData registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges. 	■ Pass	□ Fail
	 Any optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges. 		
3	SAS Test Harness sends a CBSD Registration Response as follows: - cbsdld = C - measReportConfig shall not be included responseCode = 0	-	
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	■ Pass	□ Fail



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7.1.3 WINNF.FT.C.REG.8

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT is in the Unregistered state 		1
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdld - responseCode = 102		1
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	■ Pass	□ Fail



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7.1.4 WINNF.FT.C.REG.10

#	Test Execution Steps	Res	sults
	Ensure the following conditions are met for test entry:		
1	 UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness 		
	UUT is in the Unregistered state		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdld - responseCode = 200	1	
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=200) to further request messages from the UUT.	1	
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.1.5 WINNF.FT.C.REG.12

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT is in the Unregistered state 	ł	ł
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdld - responseCode = 103	1	1
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=103) to further request messages from the UUT.	-1	1
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.1.6 WINNF.FT.C.REG.14

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT is in the Unregistered state 		ł
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdld - responseCode = 101		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=101) to further request messages from the UUT.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.1.7 WINNF.FT.C.REG.16

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT is in the Unregistered state 		ł
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdld - responseCode = 100		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=100) to further request messages from the UUT.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.1.8 WINNF.FT.C.REG.18

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT is in the Unregistered state 		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdld - responseCode = 201	1	-1
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=201) to further request messages from the UUT.	1	1
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.2 CBSD Spectrum Grant Process

WINNF.FT.C.GRA.1

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness, with cbsdld = C 	1	
2	UUT sends valid Grant Request.	■ Pass	□ Fail
3	SAS Test Harness sends a Grant Response message, including cbsdld=C responseCode = 400	ı	
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.	1	
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	■ Pass	□ Fail

7.2.2 WINNF.FT.C.GRA.2

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness, with cbsdld = C 		
2	UUT sends valid Grant Request.	■ Pass	□ Fail
3	SAS Test Harness sends a Grant Response message, including - cbsdld=C - responseCode = 401		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=401) to further request messages from the UUT.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	■ Pass	□ Fail



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7.3 CBSD HeartBeat Process

WINNF.FT.C.HBT.1 7.3.1

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness, with cbsdld = C 		-
2	 UUT sends a message: If message is type Spectrum Inquiry Request, go to step 3, or If message is type Grant Request, go to step 5 		
3	 UUT sends Spectrum Inquiry Request. Validate: cbsdld = C List of frequencyRange objects sent by UUT are within the CBRS frequency range 	■ Pass	□ Fail
4	SAS Test Harness sends a Spectrum Inquiry Response message, including the following parameters:		1
5	 UUT sends Grant Request message. Validate: cbsdld = C maxEIRP is at or below the limit appropriate for CBSD category as defined by Part 96 operationFrequencyRange, F, sent by UUT is a valid range within the CBRS band 	■ Pass	□ Fail
6	SAS Test Harness sends a Grant Response message, including the parameters: cbsdld = C grantId = G = a valid grant ID grantExpireTime = UTC time greater than duration of the test responseCode = 0		
7	UUT sends a first Heartbeat Request message. Verify Heartbeat Request message is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "GRANTED"	■ Pass	□ Fail
8	SAS Test Harness sends a Heartbeat Response message, with the following parameters: • cbsdld = C • grantId = G • transmitExpireTime = current UTC time + 200 seconds • responseCode = 0		



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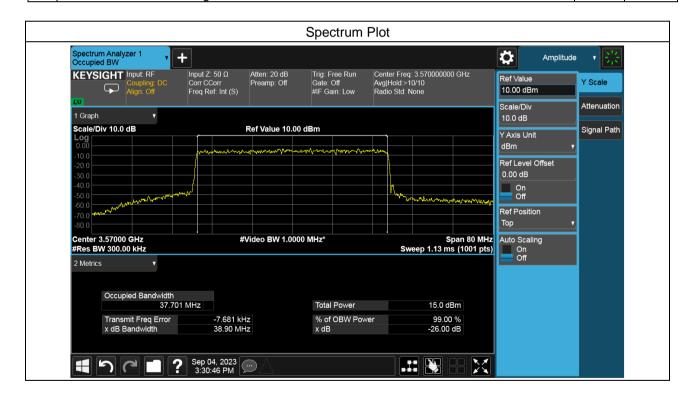


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9	For further Heartbeat Request messages sent from UUT after completion of step 8, validate message is sent within latest specified heartbeatInterval, and: cbsdld = C grantId = G operationState = "AUTHORIZED" and SAS Test Harness responds with a Heartbeat Response message including the following parameters: cbsdld = C grantId = G transmitExpireTime = current UTC time + 200 seconds responseCode = 0	■ Pass	□ Fail
10	 Monitor the RF output of the UUT from start of test until UUT transmission commences. Verify: UUT does not transmit at any time prior to completion of the first heartbeat response UUT transmits after step 8 is complete, and its transmission is limited to within the bandwidth range F. 	■ Pass	□ Fail





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7.3.2 WINNF.FT.C.HBT.3

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantld = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface 		-
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	1	1
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = G • transmitExpireTime = T = Current UTC time • responseCode = 105 (DEREGISTER)		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	Monitor the RF output of the UUT. Verify: ■ UUT shall stop transmission within (T + 60 seconds) of completion of step 3	Pass	□ Fail



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7.3.3 WINNF.FT.C.HBT.4

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantId = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface 	1	
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including:	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: cbsdld = C grantld = G transmitExpireTime = T = current UTC time responseCode = 500 (TERMINATED_GRANT)		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	Monitor the RF output of the UUT. Verify: ■ UUT shall stop transmission within (T + 60 seconds) of completion of step 3	■ Pass	□ Fail



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7.3.4 WINNF.FT.C.HBT.5

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantId = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in GRANTED, but not AUTHORIZED state (i.e. has not performed its first Heartbeat Request) 	1	1
2	UUT sends a Heartbeat Request message. Verify Heartbeat Request message is formatted correctly, including: ■ cbsdld = C ■ grantId = G ■ operationState = "GRANTED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: cbsdld = C grantId = G transmitExpireTime = T = current UTC time ?responseCode = 501 (SUSPENDED_GRANT)		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	Monitor the SAS-CBSD interface. Verify either A OR B occurs: A. UUT sends a Heartbeat Request message. Ensure message is sent within latest specified heartbeatInterval, and is correctly formatted with parameters: • cbsdld = C • grantId = G • operationState = "GRANTED" B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: • cbdsId = C • grantId = G Monitor the RF output of the UUT. Verify: • UUT does not transmit at any time	Pass	□ Fail



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7.3.5 WINNF.FT.C.HBT.6

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantId = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface 	1	
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: cbsdld = C grantId = G transmitExpireTime = T = current UTC time responseCode = 501 (SUSPENDED_GRANT)		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	 Monitor the SAS-CBSD interface. Verify either A OR B occurs: A. UUT sends a Heartbeat Request message. Ensure message is sent within latest specified heartbeatInterval, and is correctly formatted with parameters: cbsdld = C grantId = G DUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: cbdsId = C grantId = G Monitor the RF output of the UUT. Verify: UUT shall stop transmission within (T+60) seconds of completion of step 3 	■ Pass	□ Fail



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7.3.6 WINNF.FT.C.HBT.7

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantId = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface 		
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: cbsdld = C grantld = G transmitExpireTime = T = current UTC time responseCode = 502 (UNSYNC_OP_PARAM)		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	 Monitor the SAS-CBSD interface. Verify: UUT sends a Grant Relinquishment Request message. Verify message is correctly formatted with parameters: ○ cbsdId = C ○ grantId = G Monitor the RF output of the UUT. Verify: UUT shall stop transmission within (T+60) seconds of completion of step 3 	■ Pass	□ Fail



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7.3.7 WINNF.FT.C.HBT.9

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantId = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in GRANTED, but not AUTHORIZED state(i.e. has not performed its first Heartbeat Request) 		
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "GRANTED"	■ Pass	□ Fail
3	After completion of step 2, SAS Test Harness does not respond to any further messages from UUT to simulate loss of network connection		
4	Monitor the RF output of the UUT from start of test to 60 seconds after step 3. Verify: At any time during the test, UUT shall not transmit on RF interface	■ Pass	□ Fail



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7.3.8 WINNF.FT.C.HBT.10

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantId = G grant is for frequency range F, power P grantExpireTime = UTC time greater than duration of the test UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface 		
2	 UUT sends a Heartbeat Request message. Verify Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: cbsdld = C grantId = G operationState = "AUTHORIZED" 	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: cbsdld = C grantId = G transmitExpireTime = T = current UTC time + 200 seconds responseCode = 0		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	 Monitor the RF output of the UUT. Verify: UUT shall stop all transmission on RF interface within (transmitExpireTime + 60 seconds), using the transmitExpireTime sent in Step 3. 	■ Pass	□ Fail



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7.4 CBSD Relinquishment Process

WINNF.FT.C.RLQ.1

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT has successfully registered with SAS Test Harness, with cbsdld=C UUT has received a valid grant with grantId = G UUT is in Grant State AUTHORIZED and is actively transmitting within the bounds of its grant. Invoke trigger to relinquish UUT Grant from the SAS Test Harness 		
2	UUT sends a Relinquishment Request message. Verify message contains all required parameters properly formatted, and specifically: • cbsdld = C • grantId = G	■ Pass	□ Fail
3	SAS Test Harness shall approve the request with a Relinquishment Response message with parameters: - cbsdld = C - grantld = G • responseCode = 0		
4	After completion of step 3, SAS Test Harness will not provide any additional positive response (responseCode=0) to further request messages from the UUT		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall stop RF transmission at any time between triggering the relinquishment and UUT sending the relinquishment request	■ Pass	□ Fail



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7.5 CBSD Deregistration Process

WINNF.FT.C.DRG.1

#	Test Execution Steps	Re	sults
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness UUT has successfully registered with SAS Test Harness, with cbsdld=C UUT has received a valid grant with grantId = G UUT is in Grant State AUTHORIZED and is actively transmitting within the bounds of its grant. Invoke trigger to deregister UUT from the SAS Test Harness 		
2	UUT sends a Relinquishment request and receives Relinquishment response with ■ responseCode=0	1	
3	UUT sends Deregistration Request to SAS Test Harness with cbsdld = C.	■ Pass	□ Fail
4	SAS Test Harness shall approve the request with a Deregistration Response message with parameters:		
5	After completion of step 3, SAS Test Harness will not provide any additional positive response (responseCode=0) to further request messages from the UUT.		
6	 Monitor the RF output of the UUT from start of test until 60 seconds after Step 4 is complete. This is the end of the test. Verify: UUT stopped RF transmission at any time between triggering the deregistration and either A OR B occurs: A. UUT sending a Registration Request message, as this is not mandatory B. UUT sending a Deregistration Request message 	■ Pass	□ Fail



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7.6 CBSD Security Validation

WINNF.FT.C.SCS.1

#	Test Execution Steps	Res	sults
1	 UUT shall start CBSD-SAS communication with the security procedure The UUT shall establish a TLS handshake with the SAS Test Harness using configured certificate. Configure the SAS Test Harness to accept the security procedure and establish the connection 	■ Pass	□ Fail
2	 Make sure that Mutual authentication happens between UUT and the SAS Test Harness. Make sure that UUT uses TLS v1.2 Make sure that cipher suites from one of the following is selected, TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 	■ Pass	□ Fail
3	A successful registration is accomplished using one of the test cases described in section 6.1.4.1, depending on CBSD capability. UUT sends a registration request to the SAS Test Harness and the SAS Test Harness sends a Registration Response with responseCode = 0 and cbsdld.	■ Pass	□ Fail
4	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	Pass	□ Fail

7.6.2 WINNF.FT.C.SCS.2

#	Test Execution Steps	Res	sults
1	UUT shall start CBSD-SAS communication with the security procedures	■ Pass	□ Fail
2	 Make sure that UUT uses TLS v1.2 for security establishment. Make sure UUT selects the correct cipher suite. UUT shall use CRL or OCSP to verify the validity of the server certificate. Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness. 	Pass Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	□ Fail
4	 SAS Test-Harness shall not receive any Registration request or any application data. 		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.6.3 WINNF.FT.C.SCS.3

#	Test Execution Steps	Res	sults
1	UUT shall start CBSD-SAS communication with the security procedures		
'	, , , , , , , , , , , , , , , , , , ,	Pass	Fail
2	 Make sure that UUT uses TLS v1.2 for security establishment. Make sure UUT selects the correct cipher suite. UUT shall use CRL or OCSP to verify the validity of the server certificate. Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	□ Fail
	SAS Test-Harness shall not receive any Registration request or any application		
4	data.		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:	■ Pass	□ Fail
	UUT shall not transmit RF	F 000	ı alı

7.6.4 WINNF.FT.C.SCS.4

#	Test Execution Steps	Results	
1	UUT shall start CBSD-SAS communication with the security procedures		
	oo i siisii sisii oo o	Pass	Fail
2	 Make sure that UUT uses TLS v1.2 for security establishment. Make sure UUT selects the correct cipher suite. UUT shall use CRL or OCSP to verify the validity of the server certificate Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	□ Fail
4	 SAS Test-Harness shall not receive any Registration request or any application data. 		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.6.5 WINNF.FT.C.SCS.5

#	Test Execution Steps	Results	
1	UUT shall start CBSD-SAS communication with the security procedures	■ Pass	□ Fail
2	 Make sure that UUT uses TLS v1.2 for security establishment. Make sure UUT selects the correct cipher suite. UUT shall use CRL or OCSP to verify the validity of the server certificate Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	□ Fail
4	 SAS Test-Harness shall not receive any Registration request or any application data. 		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: UUT shall not transmit RF	■ Pass	□ Fail



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7.7 CBSD RF Power Measurement

7.7.1 WINNF.PT.C.HBT

#	Test Execution Steps	Results	
1	 Ensure the following conditions are met for test entry: UUT has successfully completed SAS Discovery and Authentication with the SAS Test Harness UUT has registered with the SAS, with CBSD ID = C UUT has a single valid grant G with parameters {lowFrequency = FL, highFrequency = FH, maxEirp = Pi}, with grant in AUTHORIZED state, and grantExpireTime set to a value far past the duration of this test case Note: in order for the UUT to request a grant with the parameters {lowFrequency, highFrequency, maxEirp), the SAS Test Harness may need to provide 		
	appropriate guidance in the availableChannel object of the spectrumInquiry response message, and the operationParam object of the grant response message. Alternately, the UUT vendor may provide the ability to set those parameters on the UUT so that the UUT will request a grant with those parameters UUT and SAS Test Harness perform a series of Heartbeat Request/Response cycles,		
2	which continues until the other test steps are complete. Messaging for each cycle is as follows: UUT sends Heartbeat Request, including: Cochected Cochect		
	O grantId = G O transmitExpireTime = current UTC time + 200 seconds ■ responseCode = 0		
3	Tester performs power measurement on RF interface(s) of UUT, and verifies it complies with the maxEirp setting, Pi. The RF measurement method is out of scope of this document, but may include additional configuration of the UUT, as required, to fulfill the requirements of the power measurement method.		
	 Note: it may be required for the vendor to provide a method or configuration to bring the UUT to a mode which is required by the measurement methodology. Any such mode is vendor-specific and depends upon UUT behavior and the measurement methodology. 	Pass	Fail



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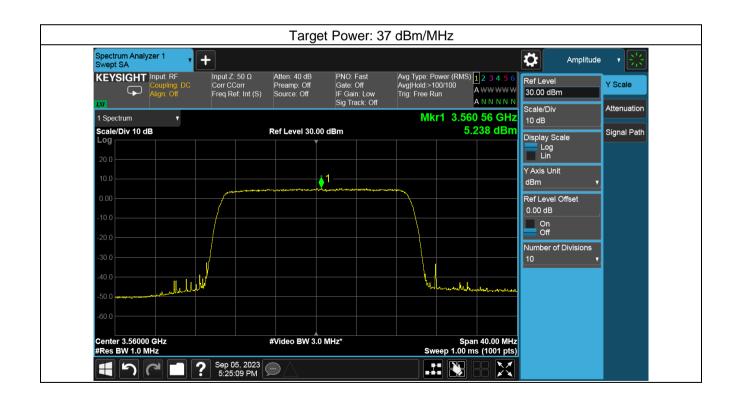
RF measurement plot for Test Case:

Tester performs power measurement on RF interface(s) of UUT, and verifies it complies with the maxEirp setting, Pi. The RF measurement method is out of scope of this document, but may include additional configuration of the UUT, as required, to fulfill the requirements of the power measurement method.

Freq. (MHz)	Conducted PSD (dBm/MHz)	Antenna Gain (dBi)	Loss (dB)	Array Gain (dB)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
3560	5.238	13.0	15.0	3.01	36.248	37	Pass
3560	-10.937	13.0	15.0	3.01	20.073	22	Pass
3560	-21.344	13.0	15.0	3.01	9.666	12	Pass

Note:

- Array Gain=10log(n), n is the antenna number, for this test the n=2
- EIRP PSD= Conducted PSD+ Antenna Gain+ Array Gain
- Loss includes cable loss and loss of attenuator





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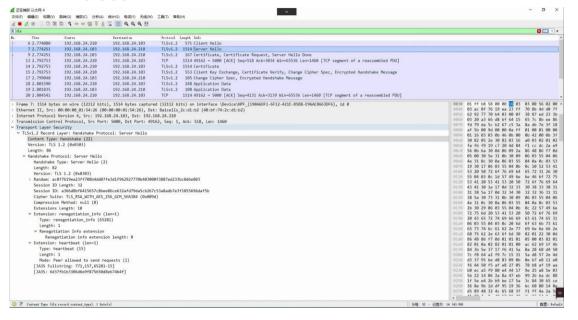
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Test Data Log For Standalone CBSD 8

Test data log refer to log files (Log files appendix) except for securitytest cases which shows below.

8.1 WINNF.FT.C.SCS.1





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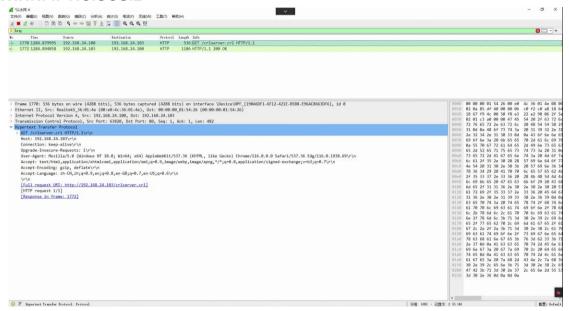


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8.2 WINNF.FT.C.SCS.2







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8.3 WINNF.FT.C.SCS.3





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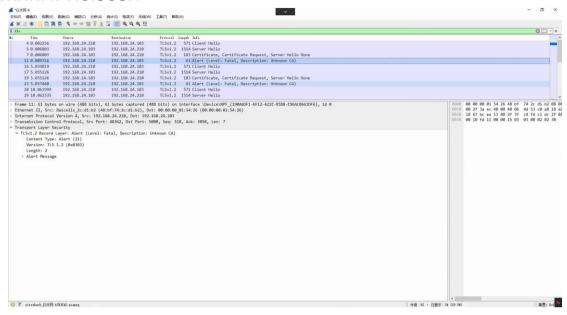


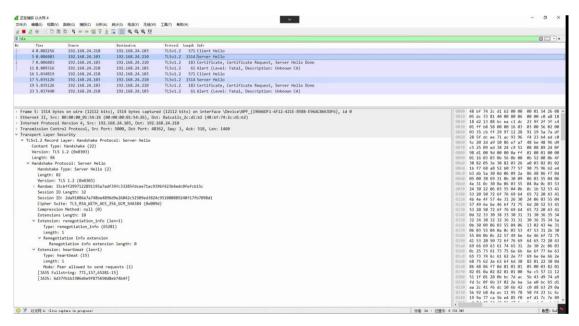
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8.4 WINNF.FT.C.SCS.4







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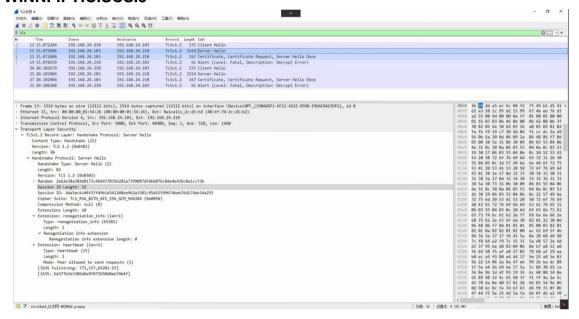


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8.5 WINNF.FT.C.SCS.5





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Photographs 9

9.1 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

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