

Data Referencing

A. Introduction

This document outlines the test plan to **reference compliance test data** from the fully populated **Parent model [SM-X848U]** for use with the depopulated **Variant model [SM-X840]**, in accordance with **KDB 484596 D01 v03 (Referencing Test Data)** and subsequent guidance presented by the FCC OET in January 2026.

The applicant proposes to apply the **spot-check test plan** described herein to verify the variant's compliance where data referencing is used.

The applicant accepts full responsibility that the referenced test data validly demonstrates compliance for the variant listed in this application.

The grantee, **Samsung Electronics**, understands that data referencing does not relieve it of the obligation to ensure the filed certification data demonstrate **FCC compliance** for the variant device(s).

The complete test plan, including details of the differences between the reference and variant model, are provided as a separate, confidential exhibit.

B. Test Plan for data referencing

Test Requirements Summary for Parent and Variant Devices – EMC/RF

Test Items	SM-X848U (Parent Model)	SM-X840 (Variant Model)
FCC Part 15.247/15E (radiated/conducted test)	Full Test	Spot-check the worst-case configuration based on Reference Model for conducted or radiated output power, band edge (where applicable) and radiated spurious for each radio technologies.
FCC Part 15E DFS	Full Test	Full Test
FCC Part 15E CBP	Full Test	Full Test
Part 22, 24, 27, 90 (GSM, WCDMA, LTE, 5G NR FR1)	Full Test	Not supported (both hardware & software)
Part 15C - Digitizer	Full Test	Spot-check
Part 15 B - Receiver	Full Test	Not supported (both hardware & software)
Part 15 B - Digital Device	Full Test	Full Test

Note. Please refer to the detailed test plan below.

Data Referencing Test Plan by Equipment Class – EMC/RF

Mode	Equipment Class	Data referencing	Comments
Digital Device	JBP	No	Full Test
Receiver mode	CXX	No	Not supported (both hardware & software)
WWAN	PCB	No	Not supported (both hardware & software)
	CBE		
2.4 GHz Wi-Fi	DTS	Yes(Partial)	Full test: 12,13 channel full test 802.11b 1-11 channel full test
Bluetooth LE	DTS	Yes	Spot-check
Bluetooth BDR&EDR	DSS	Yes	Spot-check
5 GHz Wi-Fi	NII	Yes	Full test: NII-3 legacy mode full test
6 GHz Wi-Fi	6CD, 6VL	Yes	Spot-check
Digitizer	DCD	Yes	Spot-check
Licensed bands are not supported in the variant model.			

The only data referencing being requested is for the DTS, DSS, NII, 6CD, 6VL and DCD equipment codes. For these air interfaces, the circuitry is identical in both the parent and variant models. Part 15 B equipment codes JBP will be tested in full.

Data Referencing RF Exposure Test Plan by Equipment Class – RF exposure

Mode	Equipment Class	Data referencing	Comments
Digital Device	JBP	N/A	RF Exposure not applicable
Receiver mode	CXX	N/A	RF Exposure not applicable
WWAN	PCB	No	Not supported (both hardware & software)
	CBE	No	Not supported (both hardware & software)
2.4 GHz Wi-Fi	DTS	Yes	Spot-check for reduce power (Sensor on) Full test for max power (Sensor off)
Bluetooth LE	DTS	Yes	Spot-check
Bluetooth	DSS	Yes	Spot-check
5 GHz Wi-Fi	NII	Yes	Spot-check for UNII bands(except UNII-3 max power) Full test for max power of UNII-3 (Sensor off)
6 GHz Wi-Fi	6CD, 6VL	Yes	Spot-check for SAR Full test for IPD
Digitizer	DCD	No	Full Test

Spot checks will be performed for each antenna for each operating band based on the worst-case air interface for Standalone(body) exposure conditions. Where the spot check does not meet the criteria established within KDB 484596 D01 Referencing Test Data v03 Section 3.2.2 full testing shall be performed for that exposure condition on the worst-case air interface for that band / antenna under test.

In simultaneous transmission analysis, the higher SAR results between parent model and variant model is used for evaluation.

Spot-check test plan (Test Items) – EMC/RF

Note. Radiated measurements shall be performed in full on the worst-case operating modes in the band, or bands, where the radiated spot-check tests show deviation from the reference model that does not meet the acceptance criteria. As output power tables and rf circuitry are identical between reference and variant any conducted test data from the reference mode, where applicable, will be used for the variant model.

2.4 GHz Wi-Fi & Bluetooth LE

Rule Part	Test item	Data referencing	Comments
15.247(b)	Tx conducted output power	Y	Worst case Spot-check. Power check with tune-up.
15.205 15.209 15.247	Radiated Band-edge	Y	Worst case (Lowest margin), variant data within acceptance criteria. For each mode (i.e. 802.11b, g, n, BLE 1M, 2M), both band-edge and spurious worst case will be verified.
	Radiated Spurious	Y	

Bluetooth

Rule Part	Test item	Data referencing	Comments
15.247	Tx conducted output power	Y	Worst case Spot-check. Power check with tune-up.
15.205 15.209 15.247	Radiated Band-edge	Y	Worst case (Lowest margin), variant data within acceptance criteria. For each mode (i.e. BT BDR, EDR), both band-edge and spurious worst case will be verified.
	Radiated Spurious	Y	

5 GHz Wi-Fi

Rule Part	Test item	Data referencing	Comments
15.407(a)	Tx conducted output power	Y	Worst case Spot-check. Power check with tune-up.
15.205 15.209 15.407(b)	Radiated Band-edge	Y	Worst case (Lowest margin), variant data within acceptance criteria. For each NII band (i.e. NII-1/2A/2C/3/4), both band-edge and spurious worst case will be verified.
	Radiated Spurious	Y	
15.407(h)	DFS	N	Full test for channel close and move time

6 GHz Wi-Fi

Rule Part	Test item	Data referencing	Comments
15.407(a)(1)	Tx conducted output power	Y	Worst case Spot-check. Power check with tune-up will be performed as follows: - For NII 5&7: SP power will be measured at worst band-edge & spurious points - For NII 6&8: Indoor power will be measured at worst band-edge & spurious points - For VLP: Power will be measured at worst spurious points in each band
15.205 15.209 15.407(b)(6)	Radiated Band-edge	Y	Worst case (Lowest margin), variant data within acceptance criteria. For each NII band (i.e. NII-5/6/7/8), both band-edge and spurious worst case will be verified.
	Radiated Spurious	Y	
15.407(d)	CBP	N	Full test

Digitizer

Rule Part	Test item	Data referencing	Comments
15.205 15.209	Radiated Spurious	Y	Spurious worst case will be verified.