



Test report No.: 25B0338R-SAUSV05S-C

Part 0: SAR Char Report

Product Name	5G WWAN Module
Trademark	Foxconn
Model and /or type reference	T99W696
Applicant's name / address	Hon Lin Technology Co., Ltd 11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114, Taiwan R.O.C.
Manufacturer's name	Hon Lin Technology Co., Ltd
FCC ID	2AQ68W696T6
Verdict Summary	IN COMPLIANCE
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Date of Receipt	2025/11/12
Date of Issue	2026/03/13
Report Version	V1.0

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Revision History

Report No.	Version	Description	Issued Date
25B0338R-SAUSV05S-C	V1.0	Initial issue of report.	2026/03/13

1. Introduction

1.1 Time-Averaging Algorithm for RF Exposure Compliance

This equipment under test (EUT) incorporates a Qualcomm modem with Smart Transmit capability. Qualcomm Smart Transmit is a power management feature designed to control transmit power behavior based on device-level characterization, in order to ensure that time-averaged RF exposure remains in compliance with applicable regulatory SAR requirements.

The Smart Transmit feature is applied where applicable to supported operating modes of this device and is used to manage RF exposure under the relevant compliance conditions.

2. General Information

2.1 EUT Description

Product Name	5G WWAN Module
Trademark	Foxconn
Model and /or type reference	T99W696
FCC ID	2AQ68W696T6
Frequency Range (Licensed)	WCDMA B2: 1850 -1910 MHz WCDMA B4: 1710 -1755 MHz WCDMA B5: 824 -849 MHz LTE Band 2: 1850-1910 MHz LTE Band 4: 1710-1755 MHz LTE Band 5: 824-849 MHz LTE Band 7: 2500-2570 MHz LTE Band 12: 699-716 MHz LTE Band 13: 777-787 MHz LTE Band 14: 788-798 MHz LTE Band 17: 704-716 MHz LTE Band 25: 1850-1915 MHz LTE Band 26: 814-849 MHz LTE Band 30: 2305-2315 MHz LTE Band 38: 2570-2620 MHz LTE Band 41: 2496-2690 MHz LTE Band 42: 3450-3550 MHz, 3550-3600 MHz LTE Band 43: 3600-3700 MHz, 3700-3800 MHz LTE Band 48: 3550-3700 MHz LTE Band 66: 1710-1780 MHz LTE Band 71: 663-698 MHz NR n2 : 1850-1910 MHz NR n5 : 824-849 MHz NR n7 : 2500-2570 MHz NR n12 : 699-716 MHz NR n13: 777-787 MHz NR n14 : 788-798 MHz NR n25 : 1850-1915 MHz NR n26 : 814-849 MHz NR n30 : 2305-2315 MHz NR n38 : 2570-2620 MHz NR n41 : 2496-2690 MHz NR n48 : 3550-3700 MHz NR n66 : 1710-1780 MHz NR n71 : 663-698 MHz NR n77 : 3450-3550 MHz, 3500-3700 MHz, 3700-3980 MHz NR n78 : 3450-3550 MHz, 3500-3700 MHz, 3700-3800 MHz
Type of Modulation	WCDMA: RMC 12.2Kbps, HSDPA, HSUPA LTE: QPSK/16QAM/64QAM/256QAM 5G NR: DFT-s-OFDM, CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM

3. SAR Characterization

SAR characterization (SAR char) is generated to support the evaluation of RF exposure for the radio configurations and usage scenarios supported by the wireless device.

The SAR characterization is used as input to the Smart Transmit feature to control and manage RF exposure and to ensure compliance with applicable regulatory requirements.

Parameters used in SAR characterization:

Term	Description
<i>SAR_design_target</i>	The design target for SAR compliance which should be less than regulatory power density limit to account for all device design related uncertainties
P_{limit}	Time-averaged power limit corresponding to SAR design target
P_{max}	Maximum tune-up power
SAR Char	The table that contains P_{limit} for all technologies/bands/antennas/DSIs supported

3.1 Applicable SAR Usage Scenarios

SAR characterization is evaluated based on the device positions relative to the human body under the applicable usage scenarios, as defined by the relevant regulatory requirements.

To support SAR-based exposure management, usage scenarios are represented by a device state index (DSI), which is used to identify and group different exposure scenarios based on the device operating state and usage conditions. Depending on the supported detection capability, the device may distinguish individual usage scenarios or group multiple scenarios under a common exposure state for RF exposure management purposes.

Table 3-1 DSI and Corresponding Exposure Scenarios

Scenario	Description	Reference Regulation
Body (DSI = 1, design-defined)	Device positioned next to the body with or without applicable accessories	FCC KDB 616217 D04 SAR for laptops and tablets FCC KDB 447498 D01 General RF Exposure Guidance

Note: The usage scenarios listed above are provided for applicability description only. Detailed SAR measurement configurations and evaluation results are documented in the SAR test report (Part 1).

3.2 SAR Char Determination

SAR characterization parameters used for Smart Transmit are determined based on a predefined SAR design target to ensure compliance with the applicable SAR regulatory limits under all supported operating conditions, including simultaneous transmission scenarios.

The SAR design target is selected by considering device design margins, implementation tolerances, and Smart Transmit control behavior, such that the time-averaged RF exposure remains within the FCC SAR limit.

To account for total uncertainty, SAR_design_target should be determined as:

$$\text{SAR_design_target} < \text{SAR}_{\text{regulatory_limit}} \times 10^{\frac{-\text{total uncertainty}}{10}}$$

Total Uncertainty (dB)	SAR1g_regulatory_limit (W/kg)	SAR1g_design_target (W/kg)	SAR10g_regulatory_limit (W/kg)	SAR10g_design_target (W/kg)
1.41	1.6	1.15	2.0	1.45

3.3 SAR Char

SAR characterization defines the transmit power limits applied for the supported radio technologies, bands, antennas, and usage scenarios under Smart Transmit operation.

The SAR char is generated based on predefined SAR design targets (P_{limit}) such that time-averaged RF exposure remains within the defined SAR limits under standalone and simultaneous transmission conditions.

The SAR characterization results summarized in Table 3-2 are used as input parameters for Smart Transmit to control RF exposure during device operation.

Table 3-2 SAR Characterization (SAR Char)

Band	Mode	P_{limit}				P_{max}
		Body DSI 1				
		Ant 0	Ant 1	Ant 2	Ant 3	
WCDMA B2	RMC	18	-	-	-	24.5
WCDMA B4	RMC	18.5	-	-	-	24.5
WCDMA B5	RMC	22	-	-	-	24.5
LTE Band 2	QPSK	18	-	16.5	-	24
LTE Band 4	QPSK	18.5	-	18	-	24
LTE Band 5	QPSK	21.5	-	-	-	24.5
LTE Band 7	QPSK	19	-	17	-	24
LTE Band 12	QPSK	21.5	-	-	-	24.5
LTE Band 13	QPSK	21.5	-	-	-	24.5
LTE Band 14	QPSK	21.5	-	-	-	24.5
LTE Band 17	QPSK	21.5	-	-	-	24.5
LTE Band 25	QPSK	18	-	16.5	-	24
LTE Band 26	QPSK	21.5	-	-	-	24.5
LTE Band 30	QPSK	17.5	-	15.5	-	23
LTE Band 38	QPSK	18.5	-	15.5	-	24
LTE Band 41 PC3	QPSK	18.5	-	15.5	-	24
LTE Band 41 PC2	QPSK	18.5	-	15.5		27
LTE Band 42	QPSK	12.5	-	16.5	-	24
LTE Band 43	QPSK	12.5	-	16.5	-	24
LTE Band 48	QPSK	12.5	-	16.5	-	22
LTE Band 66	QPSK	18.5	-	18	-	24
LTE Band 71	QPSK	24	-	-	-	24.5
5G NR n2	QPSK	18	-	16.5	-	24
5G NR n5	QPSK	21.5	-	-	-	24.5
5G NR n7	QPSK	18.5	-	16.5	-	24
5G NR n12	QPSK	21.5	-	-	-	24.5
5G NR n13	QPSK	21.5	-	-	-	24.5
5G NR n14	QPSK	21.5	-	-	-	24.5
5G NR n25	QPSK	18	-	16.5	-	24
5G NR n26	QPSK	21.5	-	-	-	24.5
5G NR n30	QPSK	17.5	-	15.5	-	23
5G NR n38	QPSK	24	-	14.5	-	24
5G NR n41 PC3	QPSK	24	17.5	14.5	18.5	24
5G NR n41 PC2	QPSK	24	17.5	14.5	18.5	27
5G NR n41 PC1.5	QPSK	24	17.5	14.5	18.5	29
5G NR n48	QPSK	17	-	15.5	-	22
5G NR n66	QPSK	18.5	-	17	-	24
5G NR n71	QPSK	24	-	-	-	24.5
5G NR n77 PC3	QPSK	17	17	15.5	14.5	24
5G NR n77 PC2	QPSK	17	17	15.5	14.5	27
5G NR n77 PC1.5	QPSK	17	17	15.5	14.5	29
5G NR n78 PC3	QPSK	17	17	15.5	14.5	24
5G NR n78 PC2	QPSK	17	17	15.5	14.5	27
5G NR n78 PC1.5	QPSK	17	17	15.5	14.5	29