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Part 0 SAR Char Report





The following samples were submitted and identified on behalf of the client as:

Qualcomm WiFi 7/BT Combo module **Product Name**

Qualcomm **Brand Name** QCNCM825 Model No.

Product Type: Notebook PC

Brand Name: ASUS

Model Name: HT5306Q, JT5306Q **Host Information**

All models are electrically identical, different model names

are for marketing purpose.

ASUSTeK COMPUTER INC. **Applicant**

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

IEEE/ANSI C95.1-1992, IEEE 1528-2013 **Standards**

FCC ID MSQ-QCNCM825

May 07, 2024 Date of EUT Receipt

Date of Test(s) Sep. 12, 2024 ~ Sep. 21, 2024

Date of Issue Oct. 03, 2024

In the configuration tested, the EUT complied with the standards specified above.

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Kiki Lin	Approved By / John Yeh
Kimmy Chiou	Liki Lin	John Teh
		Date: Oct. 03, 2024

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2409000611ES	00	Initial creation of document	Oct. 03, 2024	Kimmy Chiou	

Note:

- 1. The mark " * " is the revised version of the report due to comments submitted by the certification.
- Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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INTRODUCTION

Qualcomm® FastConnect™ WIFI Time Averaged SAR (TAS) operates based on a power limit obtained from this SAR and PD compliance test Note characterization report completed on a device. The power limit and other FastConnect WIFI TAS parameters produced in this characterization report must be entered into the board data file (BDF) to enable the FastConnect WIFI TAS feature.

Terminologies in this report

Plimit	The	time-ave	raged	R	RF pov	wer	wh	ich c	orrespon	ds	to
	SAR_c	lesign_tar	get.								
Pmax	Maxim	Maximum target power level									
	The design target for SAR compliance. It should be less than regulatory										
SAR_design_target:	power	density	limit	to	account	for	all	device	design	rela	ted
	uncerta	ainties.									
SAR char	Plimit for all the technologies/bands										

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2 SAR CHARACTERIZATION

The design target (denoted as RFexptarget) for RF exposure compliance (1g SAR or 10g SAR or PD) must be specified for FastConnect WIFI TAS WLAN before determining the power level required to meet the RFexptarget for each radio configuration and usage case supported. The SAR characterization procedure is defined in the section 3.3 of Qualcomm FastConnect document No.:80-39282-3.

2.1 SAR design target and uncertainty

Definitions of the parameters:		
	Total Uncertainty (dBm)	1.5
	1g SAR_design_target (W/Kg)	0.78

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

SAR_design_target < SAR_{regulatory limit} X 10 $\frac{-total \ uncertainty}{10}$

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SAR Char Table

Remark:

Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + TXAGC uncertainty.

2. The Plimit values, corresponding to SAR design target.

<Plimit for supported technologies and hands (Plimit in RDF file)>

71 11	mit for suppo	Ji teu tecilii	ologics	and ban	us (i iiiiiit	וטט ווו	1116/
DSI	Band / Mode	Antenna	Channel	Frequency (MHz)	Modulation	P _{test}	P _{lim} determination for TAS BDF (Power setting in 0.25 step)
		ANT 0 (Aux_01)	1	2412		18	
		ANT 0 (Aux_01)	6	2437	1	18	18.00
		ANT 0 (Aux_01)	11	2462		18	
	2.4GHz SISO	ANT 1 (Main_10)	1	2412	11b / 1Mbps	18	
		ANT 1 (Main_10)	6	2437	1	18	18.00
DOI 0 (T		ANT 1 (Main_10)	11	2462	1	18	
DSI 0 (Tablet Mode)		ANT 0 (Aux_01)	1	2412		18	
		ANT 1 (Main_10)	1	2412	1	18	
		ANT 0 (Aux_01)	6	2437	1	18	
	2.4GHz MIMO	ANT 1 (Main_10)	6	2437	11b / 1Mbps	18	18.00
		ANT 0 (Aux_01)	11	2462	1	18	
		ANT 1 (Main_10)	11	2462	1	18	
		ANT 0 (Aux_01)	38	5190		15.5	
		ANT 1 (Main_10)	38	5190	1 ,	15.5	
DSI 0 (Tablet Mode)	5.2GHz MIMO	ANT 0 (Aux_01)	46	5230	11n(40) / HT0	15.5	15.00
		ANT 1 (Main_10)	46	5230	1	15.5	
		ANT 0 (Aux_01)	54	5270		15.5	
	5.3GHz MIMO	ANT 1 (Main_10)	54	5270	11n(40) / HT0	15.5	
DSI 0 (Tablet Mode)		ANT 0 (Aux_01)	62	5310		15.5	14.00
		ANT 1 (Main_10)	62	5310		15.5	
		ANT 0 (Aux_01)	106	5530	11ac(80) / VHT0	13	13.00
		ANT 1 (Main_10)	106	5530		13	
		ANT 0 (Aux_01)	122	5610		13	
DSI 0 (Tablet Mode)	5.6GHz MIMO	ANT 1 (Main_10)	122	5610		13	
		ANT 0 (Aux_01)	138	5690		13	
		ANT 1 (Main_10)	138	5690		13	
		ANT 0 (Aux_01)	155	5775		13	
DSI 0 (Tablet Mode)	5.8GHz MIMO	ANT 1 (Main_10)	155	5775	11ac(80) / VHT0	13	13.00
DOLO (T. 1.1 (M. 1.)	50011 141140	ANT 0 (Aux_01)	171	5855	44 (00) (14170	13	40.00
DSI 0 (Tablet Mode)	5.9GHz MIMO	ANT 1 (Main_10)	171	5855	11ac(80) / VHT0	13	13.00
		ANT 0 (Aux_01)	31	6105		13	
DOLO (Table4 Mande)	6.2GHz MIMO	ANT 1 (Main_10)	31	6105	11be(320) /	13	40.00
DSI 0 (Tablet Mode)	(SP)	ANT 0 (Aux_01)	63	6265	EHT0	13	12.00
		ANT 1 (Main_10)	63	6265	<u> </u>	13	
DOLO (T. I	6.5GHz MIMO	ANT 0 (Aux_01)	95	6425	11be(320) /	13	10.50
DSI 0 (Tablet Mode)	(LPI)	ANT 1 (Main_10)	95	6425	EHT0	13	12.50
	6.7GHz MIMO (SP)	ANT 0 (Aux_01)	135	6625	11ax(80) / HE0	11.5	
		ANT 1 (Main 10)	135	6625		11.5	11.50
DSI 0 (Tablet Mode)		ANT 0 (Aux_01)	151	6705		11.5	
		ANT 1 (Main_10)	151	6705		11.5	
		ANT 0 (Aux_01)	167	6785	1	14	
		ANT 1 (Main_10)	167	6785	1	14	
DOLO (T. L. CALLE)	7GHz MIMO	ANT 0 (Aux_01)	191	6905	11be(320) /	14	44.00
DSI 0 (Tablet Mode)	(LPI)	ANT 1 (Main_10)	191	6905	EHT0	14	14.00

- End of report -

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