



Element Materials Technology

(Formerly PCTEST)
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SAR EVALUATION REPORT

Applicant Name:
Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
01/08/2024 – 02/28/2024
Test Report Issue Date:
04/05/2024
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2311270069-01.BCG-R1 (Rev1)

FCC ID: BCGA2925
APPLICANT: APPLE, INC.

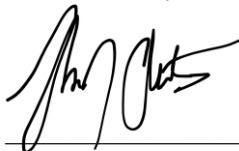
DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Models: A2925

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
DTS	2.4 GHz WiFi	2412 - 2472 MHz	1.18
NII	5 GHz WiFi	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz	1.18
6CD	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6675 MHz U-NII-8: 6895 - 7115 MHz	1.18
DSS/DTS	2.4 GHz Bluetooth	2402 - 2480 MHz	1.18
DTS	802.15.4	2405 - 2475 MHz	1.18
NII	NII U-NII 1	5152 - 5245 MHz	1.14
NII	NII U-NII 3	5733 - 5844 MHz	1.18
DOX	wPT	13.56 MHz	<0.1
Simultaneous SAR per KDB 690783 D01v01r03:			1.59
Equipment Class	Band & Mode	Tx Frequency	APD (W/m²)
6CD	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6675 MHz U-NII-8: 6895 - 7115 MHz	8.20
Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m²)
6CD	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6675 MHz U-NII-8: 6895 - 7115 MHz	7.09

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.7 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.


RJ Ortanez

Executive Vice President



Prepared by: WKR:#000010107

Reviewed by: WKR:#0000005810



The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfa.info.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 1 of 131

REV 22.0

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TABLE OF CONTENTS

1	DEVICE UNDER TEST	3
2	INTRODUCTION	32
3	DOSIMETRIC ASSESSMENT	33
4	TEST CONFIGURATION POSITIONS	34
5	RF EXPOSURE LIMITS	35
6	FCC MEASUREMENT PROCEDURES.....	37
7	RF CONDUCTED POWERS.....	40
8	SYSTEM VERIFICATION.....	89
9	SAR DATA SUMMARY	96
10	FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS.....	110
11	SAR MEASUREMENT VARIABILITY	124
12	EQUIPMENT LIST	125
13	MEASUREMENT UNCERTAINTIES.....	126
14	CONCLUSION.....	129
15	REFERENCES	130
APPENDIX A: SAR TEST PLOTS		
APPENDIX B: SAR DIPOLE VERIFICATION PLOTS		
APPENDIX C: PROBE AND DIPOLE CALIBRATION CERTIFICATES PLOTS		
APPENDIX D: SAR TISSUE SPECIFICATIONS		
APPENDIX E: SAR SYSTEM VALIDATION		
APPENDIX F: 802.11AX RU SAR EXCLUSION		
APPENDIX G: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS		
APPENDIX H: WLAN TIME-AVERAGED SAR VERIFICATION		

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 2 of 131

REV 22.0

1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB U-NII 1	Data	5162 - 5245 MHz
NB U-NII 3	Data	5733 - 5844 MHz
wPT	N/A	13.56 MHz

1.2 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth/802.15.4/NB UNII and WLAN operations. When Bluetooth/802.15.4/NB UNII is operating simultaneously with certain combinations of WLAN antennas, the output power is permanently reduced.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the WLAN Time-Averaged SAR Verification Appendix.

1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

The tolerances specified in the tables in this document refers to conducted tolerances.

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 3 of 131

REV 22.0

1.3.1

Maximum WLAN Time-Averaged Output Power

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7 Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	11.75	11.75	11.75	11.75	11.75	11.75
	2	11.75	11.75	11.75	11.75	11.75	11.75
	3	11.75	11.75	11.75	11.75	11.75	11.75
	4	11.75	11.75	11.75	11.75	11.75	11.75
	5	11.75	11.75	11.75	11.75	11.75	11.75
	6	11.75	11.75	11.75	11.75	11.75	11.75
	7	11.75	11.75	11.75	11.75	11.75	11.75
	8	11.75	11.75	11.75	11.75	11.75	11.75
	9	11.75	11.75	11.75	11.75	11.75	11.75
	10	11.75	11.75	11.75	11.75	11.75	11.75
	11	11.75	11.75	11.75	11.75	11.75	11.75
	12	11.75	11.75	11.75	11.75	11.75	11.75
	13	11.75	7.50	7.50	NS	6.50	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF8 Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	13.00	13.00	13.00	13.00	13.00	13.00
	2	13.00	13.00	13.00	13.00	13.00	13.00
	3	13.00	13.00	13.00	13.00	13.00	13.00
	4	13.00	13.00	13.00	13.00	13.00	13.00
	5	13.00	13.00	13.00	13.00	13.00	13.00
	6	13.00	13.00	13.00	13.00	13.00	13.00
	7	13.00	13.00	13.00	13.00	13.00	13.00
	8	13.00	13.00	13.00	13.00	13.00	13.00
	9	13.00	13.00	13.00	13.00	13.00	13.00
	10	13.00	13.00	13.00	13.00	13.00	13.00
	11	13.00	13.00	13.00	13.00	13.00	13.00
	12	13.00	13.00	13.00	13.00	13.00	12.50
	13	13.00	7.50	7.50	NS	6.50	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF9 Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	15.00	15.00	15.00	14.50	14.50	13.50
	2	15.00	15.00	15.00	15.00	15.00	15.00
	3	15.00	15.00	15.00	15.00	15.00	15.00
	4	15.00	15.00	15.00	15.00	15.00	15.00
	5	15.00	15.00	15.00	15.00	15.00	15.00
	6	15.00	15.00	15.00	15.00	15.00	15.00
	7	15.00	15.00	15.00	15.00	15.00	15.00
	8	15.00	15.00	15.00	15.00	15.00	15.00
	9	15.00	15.00	15.00	15.00	15.00	15.00
	10	15.00	15.00	15.00	15.00	15.00	15.00
	11	15.00	15.00	15.00	15.00	15.00	14.50
	12	15.00	14.00	14.00	14.00	13.50	12.50
	13	15.00	7.50	7.50	NS	6.50	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 4 of 131

REV 22.0

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	17.75	17.75	17.00	17.00	16.00	17.00	16.00
	40	17.75	17.75	17.75	17.00	17.00	17.00	17.00
	44	17.75	17.75	17.75	17.00	17.00	17.00	17.00
	48	17.75	17.75	17.75	17.00	17.00	17.00	17.00
	52	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	56	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	60	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	64	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	100	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	104	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	108	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	112	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	116	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	120	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	124	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	128	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	132	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	136	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	140	17.25	17.25	15.00	16.50	15.00	16.50	15.00
	144	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	149	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	153	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	157	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	161	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	165	17.00	17.00	17.00	17.00	17.00	17.00	17.00
5 GHz WIFI 40 MHz Bandwidth	38		16.00	14.00	14.75	13.00	14.75	13.00
	46		17.75	17.75	17.75	17.75	17.75	17.75
	54		17.50	17.50	17.50	17.50	17.50	17.50
	62		16.50	16.00	16.00	14.00	16.00	14.00
	102		15.75	14.50	15.00	13.50	15.00	13.50
	110		17.25	17.25	17.25	17.25	17.25	17.25
	118		17.25	17.25	17.25	17.25	17.25	17.25
	126		17.25	17.25	17.25	17.25	17.25	17.25
	134		17.25	17.25	17.25	17.00	17.25	17.00
	142		17.25	17.25	17.25	17.25	17.25	17.25
	151		17.00	17.00	17.00	17.00	17.00	17.00
5 GHz WIFI 80 MHz Bandwidth	159		17.00	17.00	17.00	17.00	17.00	17.00
	42		14.00	13.50	13.50	12.00	13.50	12.00
	58		15.00	14.50	14.50	14.00	14.50	14.00
	106		15.00	14.25	14.00	13.25	14.00	13.25
	122		17.25	17.25	17.25	17.25	17.25	17.25
5 GHz WIFI 160 MHz Bandwidth	138		17.25	17.25	17.25	17.25	17.25	17.25
	155		17.00	17.00	17.00	17.00	17.00	17.00
	50		12.50	12.50	11.50	11.00	11.50	11.00
	114		13.00	13.00	12.00	12.00	12.00	12.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Note: 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 5 of 131

REV 22.0

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7 Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	40	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	44	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	48	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	52	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	56	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	60	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	64	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	100	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	104	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	108	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	112	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	116	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	120	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	124	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	128	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	132	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	136	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	140	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	144	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	149	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	153	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	157	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	161	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	165	8.25	8.25	8.25	8.25	8.25	8.25	8.25
5 GHz WIFI 40 MHz Bandwidth	38		8.50	8.50	8.50	8.50	8.50	8.50
	46		8.50	8.50	8.50	8.50	8.50	8.50
	54		8.50	8.50	8.50	8.50	8.50	8.50
	62		8.50	8.50	8.50	8.50	8.50	8.50
	102		8.25	8.25	8.25	8.25	8.25	8.25
	110		8.25	8.25	8.25	8.25	8.25	8.25
	118		8.25	8.25	8.25	8.25	8.25	8.25
	126		8.25	8.25	8.25	8.25	8.25	8.25
	134		8.25	8.25	8.25	8.25	8.25	8.25
	142		8.25	8.25	8.25	8.25	8.25	8.25
	151		8.25	8.25	8.25	8.25	8.25	8.25
	159		8.25	8.25	8.25	8.25	8.25	8.25
5 GHz WIFI 80 MHz Bandwidth	42		8.50	8.50	8.50	8.50	8.50	8.50
	58		8.50	8.50	8.50	8.50	8.50	8.50
	106		8.25	8.25	8.25	8.25	8.25	8.25
	122		8.25	8.25	8.25	8.25	8.25	8.25
	138		8.25	8.25	8.25	8.25	8.25	8.25
5 GHz WIFI 160 MHz Bandwidth	155		8.25	8.25	8.25	8.25	8.25	8.25
	50		8.50	8.50	8.50	8.50	8.50	8.50
	114		8.25	8.25	8.25	8.25	8.25	8.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Note: 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 6 of 131

REV 22.0

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	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	40	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	44	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	48	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	52	8.75	8.75	8.75	8.75	8.75	8.75	8.75
	56	8.75	8.75	8.75	8.75	8.75	8.75	8.75
	60	8.75	8.75	8.75	8.75	8.75	8.75	8.75
	64	8.75	8.75	8.75	8.75	8.75	8.75	8.75
	100	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	104	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	108	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	112	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	116	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	120	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	124	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	128	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	132	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	136	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	140	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	144	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	149	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	153	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	157	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	161	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	165	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 40 MHz Bandwidth	38		9.25	9.25	9.25	9.25	9.25	9.25
	46		9.25	9.25	9.25	9.25	9.25	9.25
	54		8.75	8.75	8.75	8.75	8.75	8.75
	62		8.75	8.75	8.75	8.75	8.75	8.75
	102		8.50	8.50	8.50	8.50	8.50	8.50
	110		8.50	8.50	8.50	8.50	8.50	8.50
	118		8.50	8.50	8.50	8.50	8.50	8.50
	126		8.50	8.50	8.50	8.50	8.50	8.50
	134		8.50	8.50	8.50	8.50	8.50	8.50
	142		8.50	8.50	8.50	8.50	8.50	8.50
	151		9.00	9.00	9.00	9.00	9.00	9.00
	159		9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 80 MHz Bandwidth	42		9.25	9.25	9.25	9.25	9.25	9.25
	58		8.75	8.75	8.75	8.75	8.75	8.75
	106		8.50	8.50	8.50	8.50	8.50	8.50
	122		8.50	8.50	8.50	8.50	8.50	8.50
	138		8.50	8.50	8.50	8.50	8.50	8.50
5 GHz WIFI 160 MHz Bandwidth	155		9.00	9.00	9.00	9.00	9.00	9.00
	50		8.75	8.75	8.75	8.75	8.75	8.75
	114		8.50	8.50	8.50	8.50	8.50	8.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Note: 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 7 of 131

REV 22.0

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF5B			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW LP)	2	NS	NS	NS	NS
	1	7.00	7.00	1.00	4.00
	5	7.00	7.00	1.00	4.00
	9-29	7.00	7.00	1.00	4.00
	33-61	7.00	7.00	1.00	4.00
	65-85	6.75	6.75	1.25	4.25
	89	6.75	6.75	1.25	4.25
	93	6.75	6.75	1.25	4.25
	97-113	6.00	6.00	1.25	4.00
	117-181	5.00	5.00	0.00	3.00
	185	5.00	5.00	0.00	3.00
	189-225	6.25	6.25	1.25	4.25
	229	6.25	6.25	1.25	4.25
	233	6.25	6.25	1.25	4.25
6 GHz WIFI (40MHz BW LP)	3		10.00	4.00	7.00
	11		10.00	4.00	7.00
	19-27		10.00	4.00	7.00
	35-59		10.00	4.00	7.00
	67-75		9.75	4.25	7.25
	83		9.75	4.25	7.25
	91		9.75	4.25	7.25
	99-107		9.00	4.25	7.00
	115		8.00	3.00	6.00
	123-179		8.00	3.00	6.00
	187		8.00	3.00	6.00
	195-219		9.25	4.25	7.25
	227		9.25	4.25	7.25
6 GHz WIFI (80MHz BW LP)	7		13.00	7.00	10.00
	23		13.00	7.00	10.00
	39-55		13.00	7.00	10.00
	71		12.75	7.25	10.25
	87		12.75	7.25	10.25
	103		12.00	7.25	10.00
	119		11.00	6.00	9.00
	135-167		11.00	6.00	9.00
	183		11.00	6.00	9.00
	199		12.25	7.25	10.25
	215		12.25	7.25	10.25
6 GHz WIFI (160MHz BW LP)	15		15.50	9.50	12.50
	47		15.50	9.50	12.50
	79		15.25	9.75	12.75
	111		13.50	8.50	11.50
	143		13.50	8.50	11.50
	175		13.50	8.50	11.50
	207		14.00	9.75	12.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 8 of 131

REV 22.0

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF5B			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW SP)	2	NS	NS	NS	NS
	1	16.00	16.00	16.00	16.00
	5	16.00	16.00	16.00	16.00
	9-29	16.00	16.00	16.00	16.00
	33-61	16.00	16.00	16.00	16.00
	65-85	15.75	15.75	15.75	15.75
	89	15.75	15.75	15.75	15.75
	93	15.75	15.75	15.75	15.75
	97-113	NS	NS	NS	NS
	117-181	14.25	14.25	14.25	14.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW SP)	3		16.00	16.00	16.00
	11		16.00	16.00	16.00
	19-27		16.00	16.00	16.00
	35-59		16.00	16.00	16.00
	67-75		15.75	15.75	15.75
	83		15.75	15.75	15.75
	91		15.75	15.75	15.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		14.25	14.25	14.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW SP)	7		16.00	16.00	16.00
	23		16.00	16.00	16.00
	39-55		16.00	16.00	16.00
	71		15.75	15.75	15.75
	87		15.75	15.75	15.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		14.25	14.25	14.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW SP)	15		16.00	16.00	16.00
	47		16.00	16.00	16.00
	79		15.75	15.75	15.75
	111		NS	NS	NS
	143		14.25	14.25	14.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 9 of 131

REV 22.0

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW LP)	2	NS	NS	NS	NS
	1	7.00	7.00	1.00	4.00
	5	7.00	7.00	1.00	4.00
	9-29	7.00	7.00	1.00	4.00
	33-61	7.00	7.00	1.00	4.00
	65-85	6.75	6.75	1.25	4.25
	89	6.75	6.75	1.25	4.25
	93	6.75	6.75	1.25	4.25
	97-113	6.00	6.00	1.25	4.00
	117-181	5.00	5.00	0.00	3.00
	185	5.00	5.00	0.00	3.00
	189-225	6.25	6.25	1.25	4.25
	229	6.25	6.25	1.25	4.25
	233	6.25	6.25	1.25	4.25
6 GHz WIFI (40MHz BW LP)	3		8.25	4.00	7.00
	11		8.25	4.00	7.00
	19-27		8.25	4.00	7.00
	35-59		8.25	4.00	7.00
	67-75		9.00	4.25	7.25
	83		9.00	4.25	7.25
	91		9.00	4.25	7.25
	99-107		9.00	4.25	7.00
	115		8.00	3.00	6.00
	123-179		8.00	3.00	6.00
	187		8.00	3.00	6.00
	195-219		8.75	4.25	7.25
	227		8.75	4.25	7.25
6 GHz WIFI (80MHz BW LP)	7		8.25	7.00	8.25
	23		8.25	7.00	8.25
	39-55		8.25	7.00	8.25
	71		9.00	7.25	9.00
	87		9.00	7.25	9.00
	103		9.50	7.25	9.50
	119		9.50	6.00	9.00
	135-167		9.75	6.00	9.00
	183		9.75	6.00	9.00
	199		8.75	7.25	8.75
	215		8.75	7.25	8.75
6 GHz WIFI (160MHz BW LP)	15		8.25	8.25	8.25
	47		8.25	8.25	8.25
	79		9.00	9.00	9.00
	111		9.50	8.50	9.50
	143		9.75	8.50	9.75
	175		9.75	8.50	9.75
	207		8.75	8.75	8.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 10 of 131

REV 22.0

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW SP)	2	NS	NS	NS	NS
	1	8.25	8.25	8.25	8.25
	5	8.25	8.25	8.25	8.25
	9-29	8.25	8.25	8.25	8.25
	33-61	8.25	8.25	8.25	8.25
	65-85	9.00	9.00	9.00	9.00
	89	9.00	9.00	9.00	9.00
	93	9.00	9.00	9.00	9.00
	97-113	NS	NS	NS	NS
	117-181	9.50	9.50	9.50	9.50
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW SP)	3		8.25	8.25	8.25
	11		8.25	8.25	8.25
	19-27		8.25	8.25	8.25
	35-59		8.25	8.25	8.25
	67-75		9.00	9.00	9.00
	83		9.00	9.00	9.00
	91		9.00	9.00	9.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		9.50	9.50	9.50
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW SP)	7		8.25	8.25	8.25
	23		8.25	8.25	8.25
	39-55		8.25	8.25	8.25
	71		9.00	9.00	9.00
	87		9.00	9.00	9.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		9.75	9.75	9.75
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW SP)	15		8.25	8.25	8.25
	47		8.25	8.25	8.25
	79		9.00	9.00	9.00
	111		NS	NS	NS
	143		9.75	9.75	9.75
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 11 of 131

REV 22.0

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF8			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW LP)	2	NS	NS	NS	NS
	1	7.00	7.00	1.00	4.00
	5	7.00	7.00	1.00	4.00
	9-29	7.00	7.00	1.00	4.00
	33-61	7.00	7.00	1.00	4.00
	65-85	6.75	6.75	1.25	4.25
	89	6.75	6.75	1.25	4.25
	93	6.75	6.75	1.25	4.25
	97-113	6.00	6.00	1.25	4.00
	117-181	5.00	5.00	0.00	3.00
	185	5.00	5.00	0.00	3.00
	189-225	6.25	6.25	1.25	4.25
	229	6.25	6.25	1.25	4.25
	233	6.25	6.25	1.25	4.25
6 GHz WIFI (40MHz BW LP)	3		7.00	4.00	7.00
	11		7.00	4.00	7.00
	19-27		7.00	4.00	7.00
	35-59		7.00	4.00	7.00
	67-75		7.75	4.25	7.25
	83		7.75	4.25	7.25
	91		7.75	4.25	7.25
	99-107		7.25	4.25	7.00
	115		7.25	3.00	6.00
	123-179		7.25	3.00	6.00
	187		7.25	3.00	6.00
	195-219		7.75	4.25	7.25
	227		7.75	4.25	7.25
6 GHz WIFI (80MHz BW LP)	7		7.00	7.00	7.00
	23		7.00	7.00	7.00
	39-55		7.00	7.00	7.00
	71		7.75	7.25	7.75
	87		7.75	7.25	7.75
	103		7.25	7.25	7.25
	119		7.25	6.00	7.25
	135-167		7.25	6.00	7.25
	183		7.25	6.00	7.25
	199		7.75	7.25	7.75
6 GHz WIFI (160MHz BW LP)	215		7.75	7.25	7.75
	15		7.00	7.00	7.00
	47		7.00	7.00	7.00
	79		7.75	7.75	7.75
	111		7.25	7.25	7.25
	143		7.25	7.25	7.25
	175		7.25	7.25	7.25
	207		7.75	7.75	7.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 12 of 131

REV 22.0

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF8			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW SP)	2	NS	NS	NS	NS
	1	7.00	7.00	7.00	7.00
	5	7.00	7.00	7.00	7.00
	9-29	7.00	7.00	7.00	7.00
	33-61	7.00	7.00	7.00	7.00
	65-85	7.75	7.75	7.75	7.75
	89	7.75	7.75	7.75	7.75
	93	7.75	7.75	7.75	7.75
	97-113	NS	NS	NS	NS
	117-181	7.25	7.25	7.25	7.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW SP)	3		7.00	7.00	7.00
	11		7.00	7.00	7.00
	19-27		7.00	7.00	7.00
	35-59		7.00	7.00	7.00
	67-75		7.75	7.75	7.75
	83		7.75	7.75	7.75
	91		7.75	7.75	7.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		7.25	7.25	7.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW SP)	7		7.00	7.00	7.00
	23		7.00	7.00	7.00
	39-55		7.00	7.00	7.00
	71		7.75	7.75	7.75
	87		7.75	7.75	7.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		7.25	7.25	7.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW SP)	15		7.00	7.00	7.00
	47		7.00	7.00	7.00
	79		7.75	7.75	7.75
	111		NS	NS	NS
	143		7.25	7.25	7.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 13 of 131

REV 22.0

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1.3.2

Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
Bluetooth BDR	Maximum	12.00	11.50
	Nominal	10.50	10.00
Bluetooth EDR	Maximum	12.00	7.50
	Nominal	10.50	6.00
Bluetooth LE	Maximum	12.00	11.50
	Nominal	10.50	10.00
Bluetooth HDR4	Maximum	11.50	5.00
	Nominal	10.00	3.50
Bluetooth HDR8	Maximum	11.50	5.00
	Nominal	10.00	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
Bluetooth BDR	Maximum	12.00	11.50
	Nominal	10.50	10.00
Bluetooth EDR	Maximum	12.00	7.50
	Nominal	10.50	6.00
Bluetooth LE	Maximum	12.00	11.50
	Nominal	10.50	10.00
Bluetooth HDR4	Maximum	11.50	5.00
	Nominal	10.00	3.50
Bluetooth HDR8	Maximum	11.50	5.00
	Nominal	10.00	3.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
Bluetooth BDR	Maximum	14.00	11.50
	Nominal	12.50	10.00
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	14.00	11.50
	Nominal	12.50	10.00
Bluetooth HDR4	Maximum	12.00	5.00
	Nominal	10.50	3.50
Bluetooth HDR8	Maximum	12.00	5.00
	Nominal	10.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
Bluetooth BDR	Maximum	14.00	11.50
	Nominal	12.50	10.00
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	14.00	11.50
	Nominal	12.50	10.00
Bluetooth HDR4	Maximum	12.00	5.00
	Nominal	10.50	3.50
Bluetooth HDR8	Maximum	12.00	5.00
	Nominal	10.50	3.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 14 of 131

REV 22.0

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF9
Bluetooth BDR	Maximum	16.00	11.50
	Nominal	14.50	10.00
Bluetooth EDR	Maximum	14.50	7.50
	Nominal	13.00	6.00
Bluetooth LE	Maximum	16.00	11.50
	Nominal	14.50	10.00
Bluetooth HDR4	Maximum	11.50	5.00
	Nominal	10.00	3.50
Bluetooth HDR8	Maximum	11.50	5.00
	Nominal	10.00	3.50

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 15 of 131

REV 22.0

1.3.3

802.15.4 Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
802.15.4	Maximum	13.50	12.00
	Nominal	12.00	10.50

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
802.15.4	Maximum	14.50	12.00
	Nominal	13.00	10.50

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF9
802.15.4	Maximum	17.50	12.00
	Nominal	16.00	10.50

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 16 of 131

REV 22.0

1.3.4 NB UNII Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-1 BDR	Maximum	10.00	2.50
	Nominal	8.50	1.00
NB UNII-1 HDR4	Maximum	12.50	2.50
	Nominal	11.00	1.00
NB UNII-1 HDR8	Maximum	13.50	2.50
	Nominal	12.00	1.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-1 BDR	Maximum	7.00	2.50
	Nominal	5.50	1.00
NB UNII-1 HDR4	Maximum	9.50	2.50
	Nominal	8.00	1.00
NB UNII-1 HDR8	Maximum	12.00	2.50
	Nominal	10.50	1.00

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
NB UNII-1 BDR	Maximum	9.00	2.50
	Nominal	7.50	1.00
NB UNII-1 HDR4	Maximum	9.00	2.50
	Nominal	7.50	1.00
NB UNII-1 HDR8	Maximum	9.00	2.50
	Nominal	7.50	1.00

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 17 of 131

REV 22.0

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
NB UNII-1 BDR	Maximum	10.00	2.50
	Nominal	8.50	1.00
NB UNII-1 HDR4	Maximum	10.00	2.50
	Nominal	8.50	1.00
NB UNII-1 HDR8	Maximum	10.00	2.50
	Nominal	8.50	1.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
NB UNII-1 BDR	Maximum	7.00	2.50
	Nominal	5.50	1.00
NB UNII-1 HDR4	Maximum	9.50	2.50
	Nominal	8.00	1.00
NB UNII-1 HDR8	Maximum	10.00	2.50
	Nominal	8.50	1.00

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 18 of 131

REV 22.0

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	13.50	2.00
	Nominal	12.00	0.50
NB UNII-3 HDR4	Maximum	13.50	2.00
	Nominal	12.00	0.50
NB UNII-3 HDR8	Maximum	13.50	2.00
	Nominal	12.00	0.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	13.50	2.00
	Nominal	12.00	0.50
NB UNII-3 HDR4	Maximum	13.50	2.00
	Nominal	12.00	0.50
NB UNII-3 HDR8	Maximum	13.50	2.00
	Nominal	12.00	0.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
NB UNII-3 BDR	Maximum	9.50	2.00
	Nominal	8.00	0.50
NB UNII-3 HDR4	Maximum	9.50	2.00
	Nominal	8.00	0.50
NB UNII-3 HDR8	Maximum	9.50	2.00
	Nominal	8.00	0.50

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 19 of 131

REV 22.0

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
NB UNII-3 BDR	Maximum	9.50	2.00
	Nominal	8.00	0.50
NB UNII-3 HDR4	Maximum	9.50	2.00
	Nominal	8.00	0.50
NB UNII-3 HDR8	Maximum	9.50	2.00
	Nominal	8.00	0.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
NB UNII-3 BDR	Maximum	9.50	2.00
	Nominal	8.00	0.50
NB UNII-3 HDR4	Maximum	9.50	2.00
	Nominal	8.00	0.50
NB UNII-3 HDR8	Maximum	9.50	2.00
	Nominal	8.00	0.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 20 of 131

REV 22.0

1.3.5 Bluetooth Reduced Output Power

Table below is applicable in the following conduction:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
Bluetooth BDR	Maximum	6.00	6.00
	Nominal	4.50	4.50
Bluetooth EDR	Maximum	6.00	6.00
	Nominal	4.50	4.50
Bluetooth LE	Maximum	6.00	6.00
	Nominal	4.50	4.50
Bluetooth HDR4	Maximum	6.00	5.00
	Nominal	4.50	3.50
Bluetooth HDR8	Maximum	6.00	5.00
	Nominal	4.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
Bluetooth BDR	Maximum	6.00	6.00
	Nominal	4.50	4.50
Bluetooth EDR	Maximum	6.00	6.00
	Nominal	4.50	4.50
Bluetooth LE	Maximum	6.00	6.00
	Nominal	4.50	4.50
Bluetooth HDR4	Maximum	6.00	5.00
	Nominal	4.50	3.50
Bluetooth HDR8	Maximum	6.00	5.00
	Nominal	4.50	3.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 21 of 131

REV 22.0

Table below is applicable in the following conduction:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
Bluetooth BDR	Maximum	8.00	8.00
	Nominal	6.50	6.50
Bluetooth EDR	Maximum	8.00	7.50
	Nominal	6.50	6.00
Bluetooth LE	Maximum	8.00	8.00
	Nominal	6.50	6.50
Bluetooth HDR4	Maximum	8.00	5.00
	Nominal	6.50	3.50
Bluetooth HDR8	Maximum	8.00	5.00
	Nominal	6.50	3.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
Bluetooth BDR	Maximum	8.00	8.00
	Nominal	6.50	6.50
Bluetooth EDR	Maximum	8.00	7.50
	Nominal	6.50	6.00
Bluetooth LE	Maximum	8.00	8.00
	Nominal	6.50	6.50
Bluetooth HDR4	Maximum	8.00	5.00
	Nominal	6.50	3.50
Bluetooth HDR8	Maximum	8.00	5.00
	Nominal	6.50	3.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 22 of 131

REV 22.0

Table below is applicable in the following conduction:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF9
Bluetooth BDR	Maximum	10.00	10.00
	Nominal	8.50	8.50
Bluetooth EDR	Maximum	10.00	7.50
	Nominal	8.50	6.00
Bluetooth LE	Maximum	10.00	10.00
	Nominal	8.50	8.50
Bluetooth HDR4	Maximum	10.00	5.00
	Nominal	8.50	3.50
Bluetooth HDR8	Maximum	10.00	5.00
	Nominal	8.50	3.50

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 23 of 131

REV 22.0

1.3.6

802.15.4 Reduced Output Power

Table below is applicable in the following conduction:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active
- Simultaneous conditions for 2.4 GHz WLAN Antenna WF8 and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
802.15.4	Maximum	7.50	7.50
	Nominal	6.00	6.00

Table below is applicable in the following conduction:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
802.15.4	Maximum	8.50	8.50
	Nominal	7.00	7.00

Table below is applicable in the following conduction:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active
- Simultaneous conditions for 2.4 GHz WLAN Antenna WF8 and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF9
802.15.4	Maximum	11.50	11.50
	Nominal	10.00	10.00

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 24 of 131

REV 22.0

1.3.7 NB UNII Reduced Output Power

Table below is applicable in the following conduction:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
NB UNII-1 BDR	Maximum	3.00	2.50
	Nominal	1.50	1.00
NB UNII-1 HDR4	Maximum	3.00	2.50
	Nominal	1.50	1.00
NB UNII-1 HDR8	Maximum	3.00	2.50
	Nominal	1.50	1.00

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 25 of 131

REV 22.0

Table below is applicable in the following conduction:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
NB UNII-1 BDR	Maximum	4.00	2.50
	Nominal	2.50	1.00
NB UNII-1 HDR4	Maximum	4.00	2.50
	Nominal	2.50	1.00
NB UNII-1 HDR8	Maximum	4.00	2.50
	Nominal	2.50	1.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
NB UNII-1 BDR	Maximum	4.00	2.50
	Nominal	2.50	1.00
NB UNII-1 HDR4	Maximum	4.00	2.50
	Nominal	2.50	1.00
NB UNII-1 HDR8	Maximum	4.00	2.50
	Nominal	2.50	1.00

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 26 of 131

REV 22.0

Table below is applicable in the following conduction:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
NB UNII-3 BDR	Maximum	3.50	2.00
	Nominal	2.00	0.50
NB UNII-3 HDR4	Maximum	3.50	2.00
	Nominal	2.00	0.50
NB UNII-3 HDR8	Maximum	3.50	2.00
	Nominal	2.00	0.50

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 27 of 131

REV 22.0

Table below is applicable in the following conduction:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
NB UNII-3 BDR	Maximum	3.50	2.00
	Nominal	2.00	0.50
NB UNII-3 HDR4	Maximum	3.50	2.00
	Nominal	2.00	0.50
NB UNII-3 HDR8	Maximum	3.50	2.00
	Nominal	2.00	0.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
NB UNII-3 BDR	Maximum	3.50	2.00
	Nominal	2.00	0.50
NB UNII-3 HDR4	Maximum	3.50	2.00
	Nominal	2.00	0.50
NB UNII-3 HDR8	Maximum	3.50	2.00
	Nominal	2.00	0.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Note: Per FCC KDB Publication 616217 D04v01r01, front side of the device is not required to be evaluated for SAR. All other edges were evaluated for simultaneous transmission analysis.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 28 of 131

REV 22.0

1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

Table 1-1
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	2.4 GHz WI-FI MIMO + WPT	Yes
2	5/6 GHz WI-FI MIMO + WPT	Yes
3	2.4 GHz Bluetooth (TXBF) + WPT	Yes
4	NB UNII (TXBF) + WPT	Yes
5	2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
6	802.15.4 + 5/6 GHz WI-FI + WPT	Yes
7	2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
8	802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
9	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
10	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
11	NB UNII + 2.4 GHz WI-FI + WPT	Yes
12	NB UNII + 2.4 GHz WI-FI MIMO + WPT	Yes
13	NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
14	NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
15	2.4 GHz WI-FI Antenna WF8 + 2.4 GHz Bluetooth Antenna WF7 + WPT	Yes
16	2.4 GHz WI-FI Antenna WF8 + 802.15.4 Antenna WF7 + WPT	Yes

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 29 of 131

REV 22.0

1. 2.4GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas, Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario, Wi-Fi max power will not exceed minimum of (13.5 dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
2. Specific 2.4 GHz Bluetooth TXBF Antennas and NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. This device supports VOWIFI.
5. No other combinations of antennas and modes are supported.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-1 was evaluated for Antenna WF8 and Antenna WF5B and U-NII-2A was evaluated for Antenna WF7. Additional testing for U-NII-2A Antenna WF8 and Antenna WF5B and for U-NII-1 Antenna WF7 SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth configurations.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

This device supports IEEE 802.11ac with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) 3 Tx antenna output
- c) 256 QAM is supported
- d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 3 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 30 of 131

REV 22.0

FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (IPD) between d=2mm and d= λ /5mm is $\geq$ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

1.7 Guidance Applied

- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 9.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 31 of 131

REV 22.0

2 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 32 of 131

REV 22.0

3 DOSIMETRIC ASSESSMENT

3.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 3-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

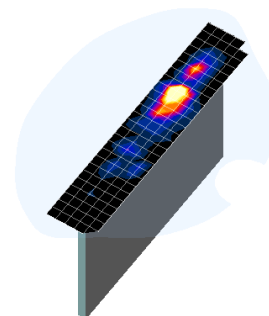


Figure 3-1
Sample SAR Area
Scan

Table 3-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 33 of 131

REV 22.0

4 TEST CONFIGURATION POSITIONS

4.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

4.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 34 of 131

REV 22.0

5 RF EXPOSURE LIMITS

5.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

5.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

5.3 RF Exposure Limits for Frequencies below 6 GHz

Table 5-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 35 of 131

REV 22.0

5.4 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 5-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 36 of 131

REV 22.0

6 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

6.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

6.2 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

6.2.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

6.2.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 37 of 131

REV 22.0

tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

6.2.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

6.2.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 6.2.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 38 of 131

REV 22.0

6.2.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 39 of 131

REV 22.0

7 RF CONDUCTED POWERS

7.1 WLAN Maximum Time-Averaged Conducted Powers

Table 7-1
2.4 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.40
2437	6		10.59
2462	11		10.56
2.4GHz WIFI (20MHz 802.11g SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.40
2437	6		10.46
2462	11		10.14
2.4GHz WIFI (20MHz 802.11n SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.35
2437	6		10.41
2462	11		10.15
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.25
2437	6		10.51
2462	11		10.08

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 40 of 131

REV 22.0

Table 7-2
2.4 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.51
2437	6		10.63
2462	11		10.60
2.4GHz WIFI (20MHz 802.11g SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.10
2437	6		10.16
2462	11		10.14
2.4GHz WIFI (20MHz 802.11n SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.02
2437	6		10.20
2462	11		10.15
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.09
2437	6		10.25
2462	11		10.18

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 41 of 131

REV 22.0

Table 7-3
2.4 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.79
2437	6		11.89
2462	11		12.05
2.4GHz WIFI (20MHz 802.11g SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.33
2437	6		11.52
2462	11		11.14
2.4GHz WIFI (20MHz 802.11n SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.35
2437	6		11.47
2462	11		11.14
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.08
2437	6		11.44
2462	11		11.09

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 42 of 131

REV 22.0

Table 7-4
2.4 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.06
2437	6		11.80
2462	11		12.00
2.4GHz WIFI (20MHz 802.11g SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.35
2437	6		11.50
2462	11		11.19
2.4GHz WIFI (20MHz 802.11n SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.34
2437	6		11.48
2462	11		11.20
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.18
2437	6		11.56
2462	11		11.21

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 43 of 131

REV 22.0

Table 7-5
2.4 GHz WLAN Maximum Average RF Power – Antenna WF9, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.87
2437	6		13.84
2462	11		13.98
2.4GHz WIFI (20MHz 802.11g SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.28
2437	6		13.64
2462	11		13.16
2.4GHz WIFI (20MHz 802.11n SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.30
2437	6		13.72
2462	11		13.26
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.01
2417	2		13.21
2437	6		13.31
2462	11		13.11

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 44 of 131

REV 22.0

Table 7-6
2.4 GHz WLAN Maximum Average RF Power – Antenna WF9, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.86
2437	6		13.90
2462	11		14.03
2.4GHz WIFI (20MHz 802.11g SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.08
2437	6		13.86
2462	11		13.35
2.4GHz WIFI (20MHz 802.11n SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.10
2437	6		13.82
2462	11		13.40
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.99
2417	2		13.25
2437	6		13.36
2462	11		13.18

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 45 of 131

REV 22.0

Table 7-7
5 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.45
UNII-2A	5290	58	7.57
UNII-2C	5530	106	7.53
	5610	122	7.72
	5690	138	7.71
UNII-3	5775	155	8.07
5GHz WIFI (80MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.32
UNII-2A	5290	58	7.40
UNII-2C	5530	106	7.09
	5610	122	7.20
	5690	138	6.94
UNII-3	5775	155	7.15

Table 7-8
5 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.38
UNII-2A	5290	58	7.56
UNII-2C	5530	106	7.69
	5610	122	7.72
	5690	138	7.70
UNII-3	5775	155	8.15
5GHz WIFI (80MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.09
UNII-2A	5290	58	7.20
UNII-2C	5530	106	7.16
	5610	122	7.20
	5690	138	6.78
UNII-3	5775	155	6.98

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 46 of 131

REV 22.0

Table 7-9
5 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.20
UNII-2A	5290	58	8.61
UNII-2C	5530	106	7.22
	5610	122	7.23
	5690	138	7.11
UNII-3	5775	155	8.87
5GHz WIFI (80MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.60
UNII-2A	5290	58	7.30
UNII-2C	5530	106	7.38
	5610	122	7.41
	5690	138	7.07
UNII-3	5775	155	7.68

Table 7-10
5 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.18
UNII-2A	5290	58	8.58
UNII-2C	5530	106	7.31
	5610	122	7.41
	5690	138	7.39
UNII-3	5775	155	8.93
5GHz WIFI (80MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.15
UNII-2A	5290	58	7.68
UNII-2C	5530	106	7.20
	5610	122	7.33
	5690	138	6.95
UNII-3	5775	155	7.88

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 47 of 131

REV 22.0

Table 7-11
5 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.42
	5230	46	17.06
UNII-2A	5270	54	17.11
	5310	62	15.38
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.97
	5610	122	16.38
	5690	138	16.09
UNII-3	5775	155	16.26
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.20
	5230	46	16.23
UNII-2A	5270	54	15.89
	5310	62	14.86
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.85
	5230	46	16.29
UNII-2A	5270	54	16.43
	5310	62	14.61
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.90
	5610	122	16.02
	5690	138	15.50
UNII-3	5775	155	15.20

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 48 of 131

REV 22.0

Table 7-12
5 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.39
	5230	46	17.08
UNII-2A	5270	54	17.07
	5310	62	15.57
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.95
	5610	122	16.00
	5690	138	15.79
UNII-3	5775	155	16.29
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.17
	5230	46	16.10
UNII-2A	5270	54	15.70
	5310	62	14.82
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.75
	5230	46	16.35
UNII-2A	5270	54	16.41
	5310	62	14.74
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.02
	5610	122	15.90
	5690	138	15.94
UNII-3	5775	155	15.40

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 49 of 131

REV 22.0

Table 7-13
6 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	7.95
	6345	79	8.60
UNII-6	6505	111	9.37
UNII-7	6665	143	9.40
UNII-8	6985	207	7.00

Table 7-14
6 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	7.90
	6345	79	8.49
UNII-6	6505	111	9.26
UNII-7	6665	143	9.60
UNII-8	6985	207	6.79

Table 7-15
6 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.99
	6345	79	5.78
UNII-6	6505	111	7.17
UNII-7	6665	143	6.68
UNII-8	6985	207	7.38

Table 7-16
6 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.40
	6345	79	5.92
UNII-6	6505	111	7.10
UNII-7	6665	143	6.61
UNII-8	6985	207	7.09

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 50 of 131

REV 22.0

Table 7-17
6 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	15.29
	6345	79	14.62
UNII-6	6505	111	12.28
UNII-7	6665	143	12.56
UNII-8	6985	207	13.35

Table 7-18
6 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	15.10
	6345	79	14.05
UNII-6	6505	111	12.29
UNII-7	6665	143	12.30
UNII-8	6985	207	13.32

7.2 Notes for WLAN

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2.

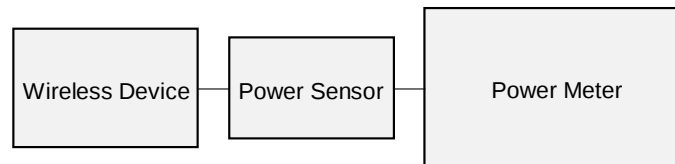


Figure 7-1
Power Measurement Setup

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 51 of 131

REV 22.0

7.3 Bluetooth Maximum Conducted Powers

Table 7-19
Bluetooth Maximum Average RF Power – Antenna WF7, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.69	14.757
2441	GFSK	1.0	39	11.72	14.859
2480	GFSK	1.0	78	11.81	15.171

Table 7-20
Bluetooth Maximum Average RF Power – Antenna WF7, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.76	14.997
2441	GFSK	1.0	39	11.80	15.136
2480	GFSK	1.0	78	11.71	14.825

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 52 of 131

REV 22.0

Table 7-21
Bluetooth Maximum Average RF Power – Antenna WF8, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.21	20.941
2441	GFSK	1.0	39	13.34	21.577
2480	GFSK	1.0	78	13.01	19.999

Table 7-22
Bluetooth Maximum Average RF Power – Antenna WF8, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.38	21.777
2441	GFSK	1.0	39	13.36	21.677
2480	GFSK	1.0	78	13.06	20.230

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 53 of 131

REV 22.0

Table 7-23
Bluetooth Maximum Average RF Power – Antenna WF9, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	15.52	35.645
2441	GFSK	1.0	39	15.35	34.277
2480	GFSK	1.0	78	15.58	36.141

Table 7-24
Bluetooth Maximum Average RF Power – Antenna WF9, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	14.86	30.620
2441	GFSK	1.0	39	14.91	30.974
2480	GFSK	1.0	78	14.84	30.479

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 54 of 131

REV 22.0

Table 7-25
802.15.4 Maximum Average RF Power – Antenna WF7, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.62	14.521
2440	O-QPSK	0.25	18	11.67	14.689
2475	O-QPSK	0.25	25	11.99	15.812

Table 7-26
802.15.4 Maximum Average RF Power – Antenna WF7, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.65	14.622
2440	O-QPSK	0.25	18	11.72	14.859
2475	O-QPSK	0.25	25	12.00	15.849

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 55 of 131

REV 22.0

Table 7-27
802.15.4 Maximum Average RF Power – Antenna WF8, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	13.44	22.080
2440	O-QPSK	0.25	18	13.33	21.528
2475	O-QPSK	0.25	25	13.43	22.029

Table 7-28
802.15.4 Maximum Average RF Power – Antenna WF8, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	13.45	22.131
2440	O-QPSK	0.25	18	13.21	20.941
2475	O-QPSK	0.25	25	13.33	21.528

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 56 of 131

REV 22.0

Table 7-29
802.15.4 Maximum Average RF Power – Antenna WF9, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	16.37	43.351
2440	O-QPSK	0.25	18	16.13	41.020
2475	O-QPSK	0.25	25	16.19	41.591

Table 7-30
802.15.4 Maximum Average RF Power – Antenna WF9, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	16.02	39.994
2440	O-QPSK	0.25	18	16.03	40.087
2475	O-QPSK	0.25	25	16.27	42.364

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 57 of 131

REV 22.0

7.4 NB UNII Maximum Conducted Powers

Table 7-31
NB UNII Maximum Average RF Power – Antenna WF7, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.65
		5204	Mid	8.75
		5245	High	8.55
BDR	U-NII 3	5733	Low	8.47
		5789	Mid	8.4
		5844	High	8.57

Table 7-32
NB UNII Maximum Average RF Power – Antenna WF7, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.69
		5204	Mid	8.75
		5245	High	8.74
BDR	U-NII 3	5733	Low	8.53
		5789	Mid	8.43
		5844	High	8.58

Table 7-33
NB UNII Maximum Average RF Power – Antenna WF8, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.98
		5204	Mid	9.1
		5245	High	8.97
BDR	U-NII 3	5733	Low	9.19
		5789	Mid	9.17
		5844	High	9.13

Table 7-34
NB UNII Maximum Average RF Power – Antenna WF8, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	9.07
		5204	Mid	9.13
		5245	High	8.96
BDR	U-NII 3	5733	Low	8.8
		5789	Mid	8.71
		5844	High	8.78

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 58 of 131

REV 22.0

Table 7-35
NB UNII Maximum Average RF Power – Antenna WF5B, Variant 1

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.53
		5204	Mid	12.6
		5245	High	12.65
BDR	U-NII 3	5733	Low	12.7
		5789	Mid	12.69
		5844	High	12.59

Table 7-36
NB UNII Maximum Average RF Power – Antenna WF5B, Variant 2

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.52
		5204	Mid	12.62
		5245	High	12.7
BDR	U-NII 3	5733	Low	12.78
		5789	Mid	12.66
		5844	High	12.53

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 59 of 131

REV 22.0

7.5 Bluetooth Reduced Conducted Powers

Table 7-37
Bluetooth Reduced Average RF Power – Antenna WF7, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.34	3.420
2441	GFSK	1.0	39	5.15	3.273
2480	GFSK	1.0	78	5.09	3.228

Table 7-38
Bluetooth Reduced Average RF Power – Antenna WF7, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.50	3.548
2441	GFSK	1.0	39	5.38	3.451
2480	GFSK	1.0	78	5.51	3.556

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 60 of 131

REV 22.0

Table 7-39
Bluetooth Reduced Average RF Power – Antenna WF8, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.25	5.309
2441	GFSK	1.0	39	7.13	5.164
2480	GFSK	1.0	78	6.90	4.898

Table 7-40
Bluetooth Reduced Average RF Power – Antenna WF8, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.20	5.248
2441	GFSK	1.0	39	7.28	5.346
2480	GFSK	1.0	78	7.25	5.309

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 61 of 131

REV 22.0

Table 7-41
Bluetooth Reduced Average RF Power – Antenna WF9, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.11	8.147
2441	GFSK	1.0	39	9.30	8.511
2480	GFSK	1.0	78	9.15	8.222

Table 7-42
Bluetooth Reduced Average RF Power – Antenna WF9, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.61	9.141
2441	GFSK	1.0	39	9.45	8.810
2480	GFSK	1.0	78	9.30	8.511

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 62 of 131

REV 22.0

7.6 802.15.4 Reduced Conducted Powers

Table 7-43
802.15.4 Reduced Average RF Power – Antenna WF7, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	6.33	4.295
2440	O-QPSK	0.25	18	6.45	4.416
2475	O-QPSK	0.25	25	6.15	4.121

Table 7-44
802.15.4 Reduced Average RF Power – Antenna WF7, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	6.47	4.436
2440	O-QPSK	0.25	18	6.45	4.416
2475	O-QPSK	0.25	25	6.33	4.295

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 63 of 131

REV 22.0

Table 7-45
802.15.4 Reduced Average RF Power – Antenna WF8, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.02	5.035
2440	O-QPSK	0.25	18	7.33	5.408
2475	O-QPSK	0.25	25	7.31	5.383

Table 7-46
802.15.4 Reduced Average RF Power – Antenna WF8, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.36	5.445
2440	O-QPSK	0.25	18	7.30	5.370
2475	O-QPSK	0.25	25	7.49	5.610

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 64 of 131

REV 22.0

Table 7-47
802.15.4 Reduced Average RF Power – Antenna WF9, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	10.40	10.965
2440	O-QPSK	0.25	18	10.25	10.593
2475	O-QPSK	0.25	25	10.46	11.117

Table 7-48
802.15.4 Reduced Average RF Power – Antenna WF9, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	10.56	11.376
2440	O-QPSK	0.25	18	10.41	10.990
2475	O-QPSK	0.25	25	10.55	11.350

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 65 of 131

REV 22.0

7.7 NB UNII Reduced Conducted Powers

Table 7-49
NB UNII Reduced Average RF Power – Antenna WF7, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.99
		5204	Mid	2.05
		5245	High	1.78
BDR	U-NII 3	5733	Low	2.47
		5789	Mid	2.59
		5844	High	2.46

Table 7-50
NB UNII Reduced Average RF Power – Antenna WF7, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.97
		5204	Mid	1.95
		5245	High	1.78
BDR	U-NII 3	5733	Low	2.45
		5789	Mid	2.59
		5844	High	2.41

Table 7-51
NB UNII Reduced Average RF Power – Antenna WF8, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.94
		5204	Mid	2.82
		5245	High	2.93
BDR	U-NII 3	5733	Low	2.63
		5789	Mid	2.51
		5844	High	2.57

Table 7-52
NB UNII Reduced Average RF Power – Antenna WF8, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.93
		5204	Mid	2.9
		5245	High	2.97
BDR	U-NII 3	5733	Low	2.68
		5789	Mid	2.52
		5844	High	2.55

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 66 of 131

REV 22.0

7.8 Bluetooth Duty Cycle Plots

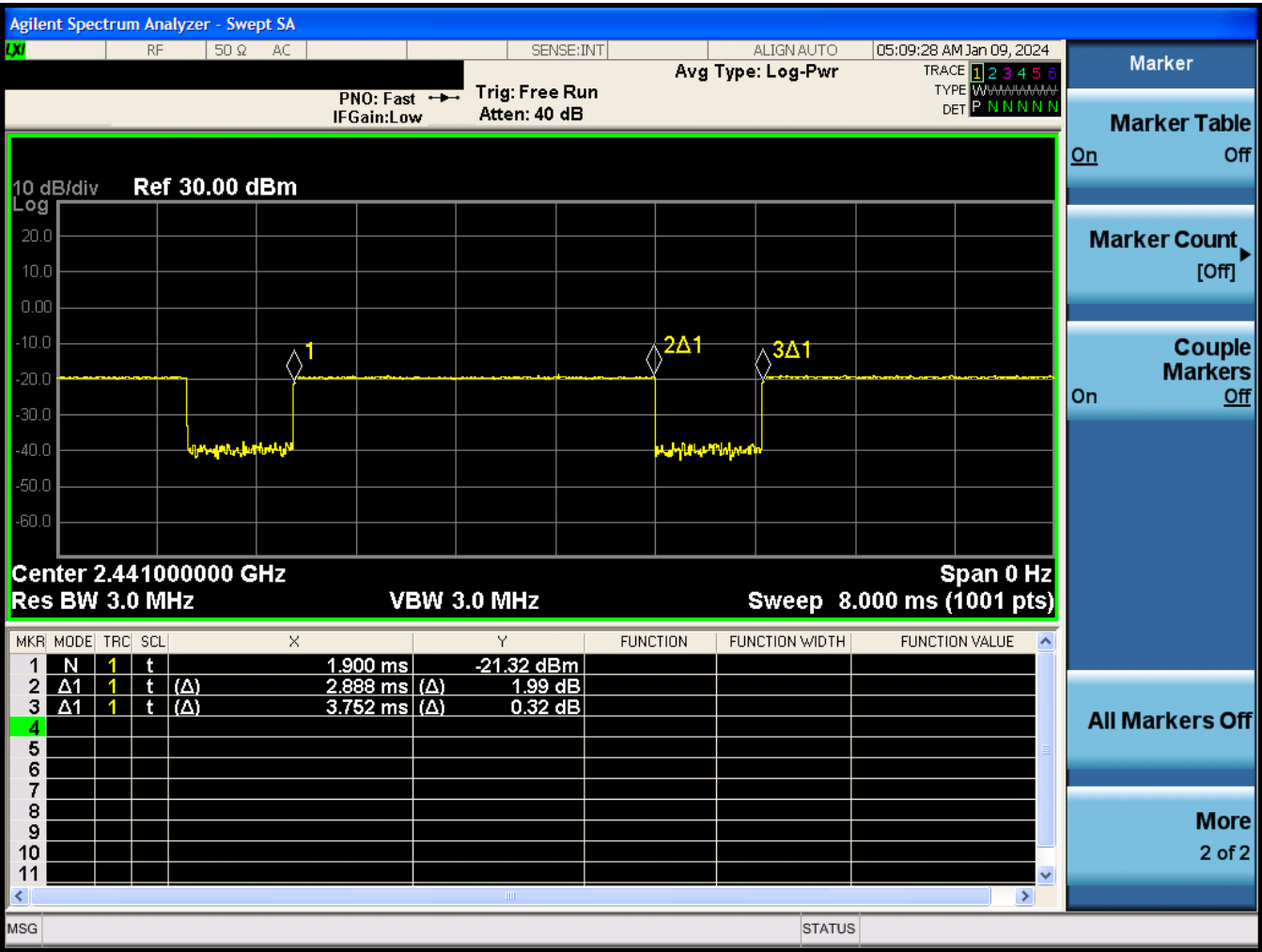


Figure 7-2
Bluetooth Transmission Plot – Antenna WF7, Variant 1

Equation 7-1
Bluetooth Duty Cycle Calculation – Antenna WF7, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 67 of 131

REV 22.0



Bluetooth Transmission Plot – Antenna WF7, Variant 2

Bluetooth Duty Cycle Calculation – Antenna WF7, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 68 of 131

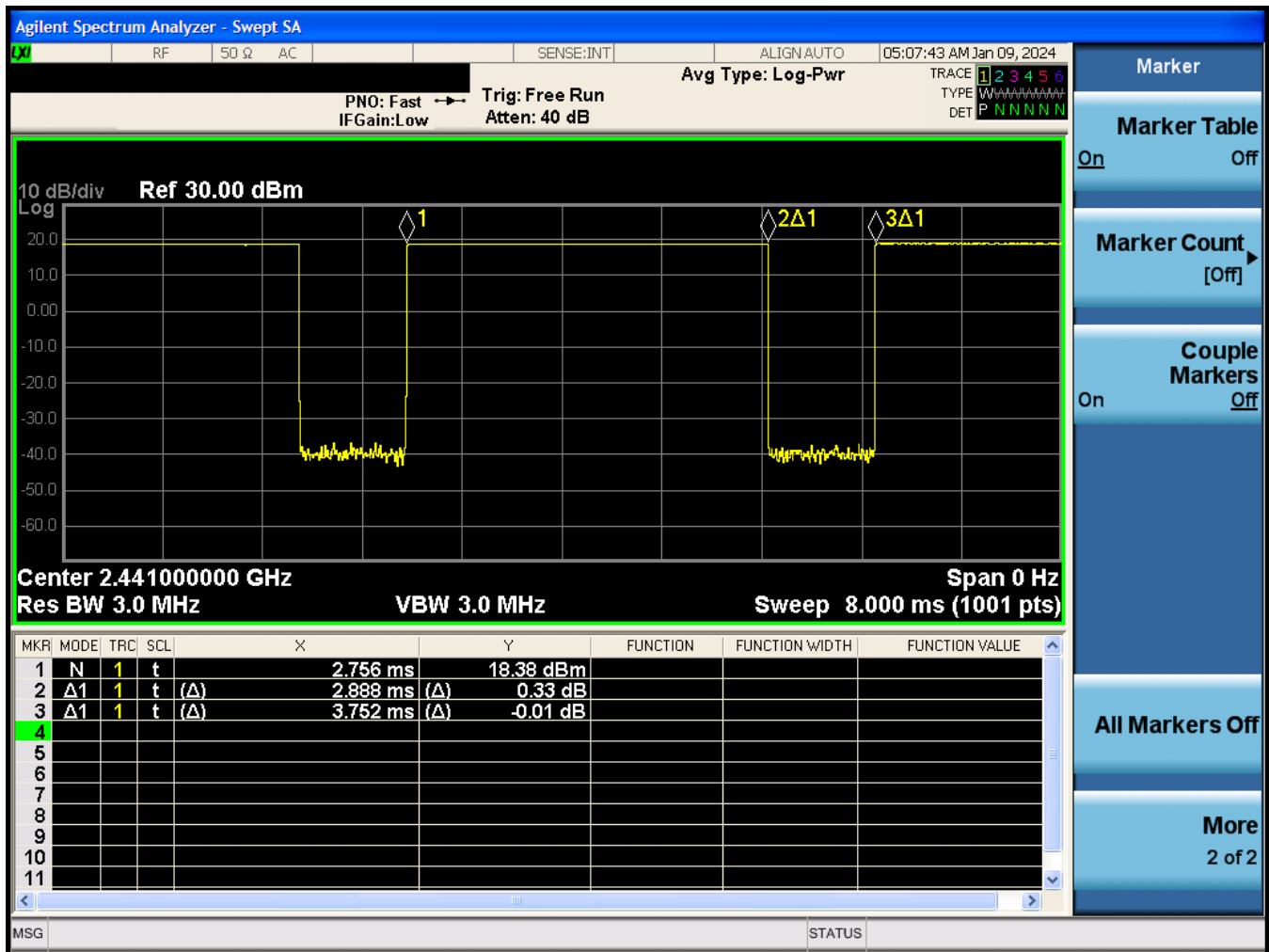


Figure 7-4
Bluetooth Transmission Plot – Antenna WF8, Variant 1

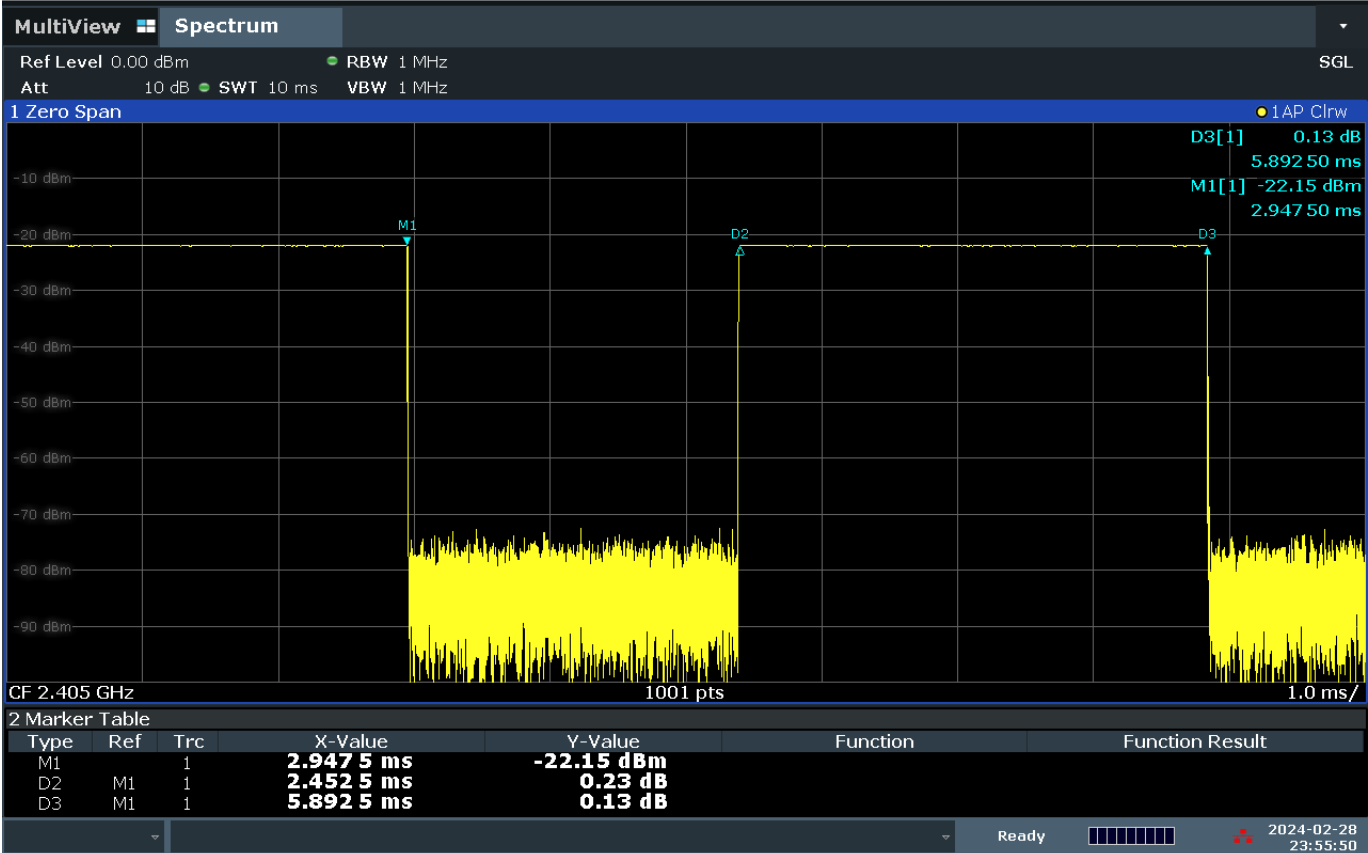
Equation 7-3
Bluetooth Duty Cycle Calculation – Antenna WF8, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 69 of 131

REV 22.0

7.9 802.15.4 Duty Cycle Plots



11:55:51 PM 02/28/2024

Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

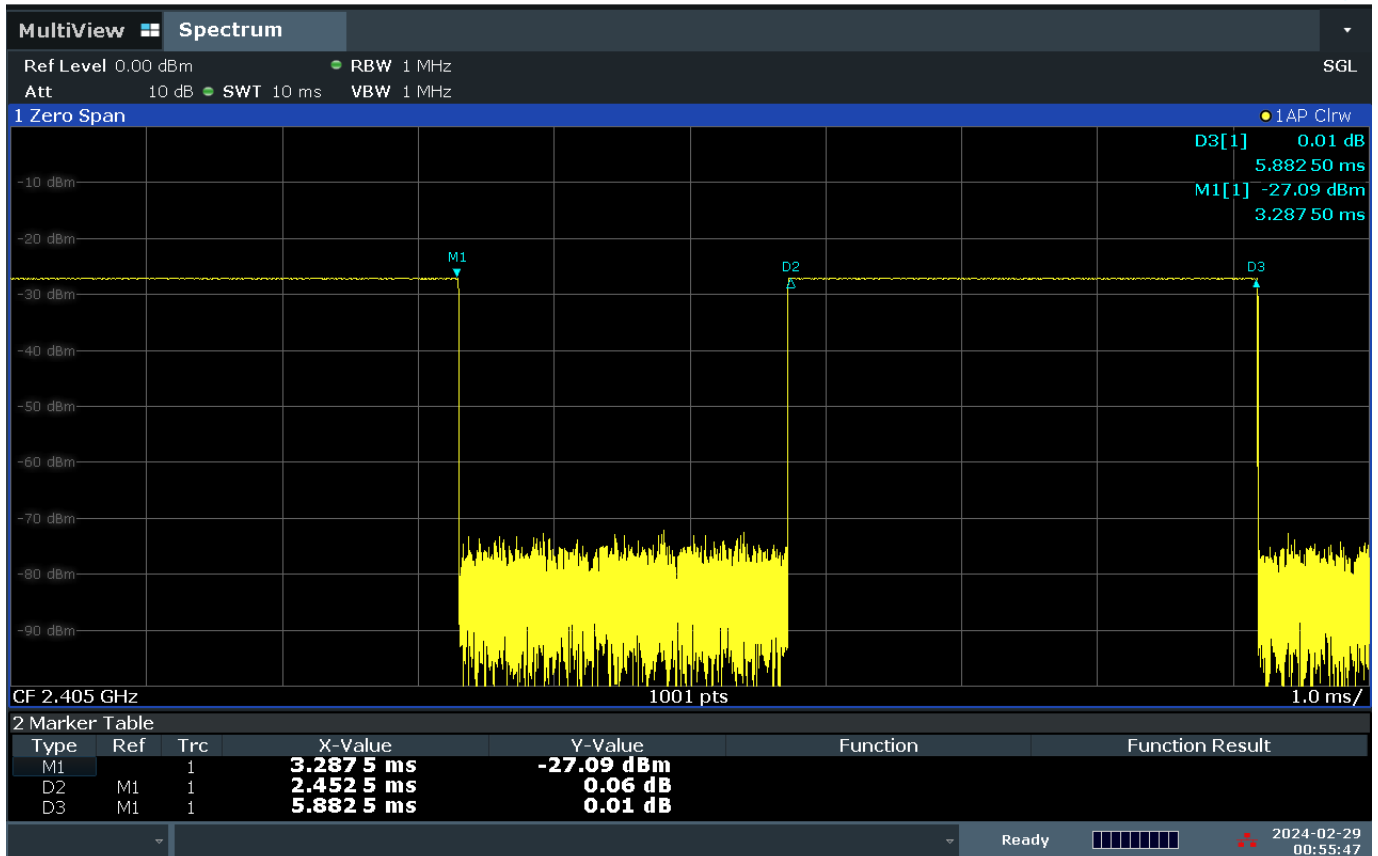
Figure 7-8
802.15.4 Transmission Plot – Antenna WF7/WF8/WF9 Variant 1

Equation 7-7
802.15.4 Duty Cycle Calculation – Antenna WF7/WF8/WF9, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{3.440\ ms}{5.892\ ms} * 100\% = 58.4\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 73 of 131

REV 22.0



12:55:48 AM 02/29/2024

Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Figure 7-9

802.15.4 Transmission Plot – Antenna WF7/WF8/WF9, Variant 2

Equation 7-8

802.15.4 Duty Cycle Calculation – Antenna WF7/WF8/WF9, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{3.430 \text{ ms}}{5.882 \text{ ms}} * 100\% = 58.3\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 74 of 131

REV 22.0

7.10 NB UNII Duty Cycle Plots

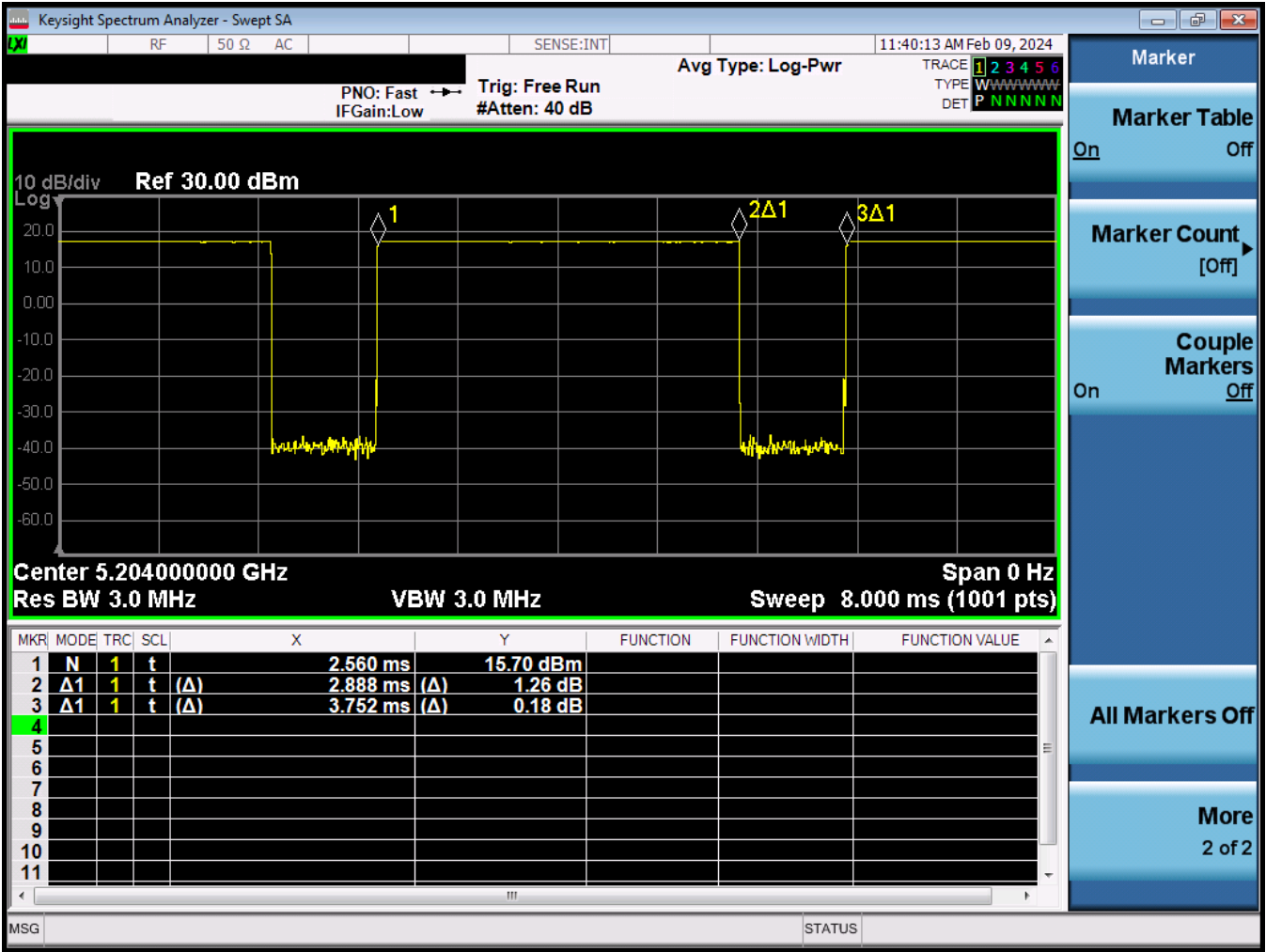


Figure 7-10
NB UNII 1 (BDR) Transmission Plot – Antenna WF7, Variant 1

Equation 7-10
NB UNII 1 (BDR) Duty Cycle Calculation – Antenna WF7, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 76 of 131

REV 22.0

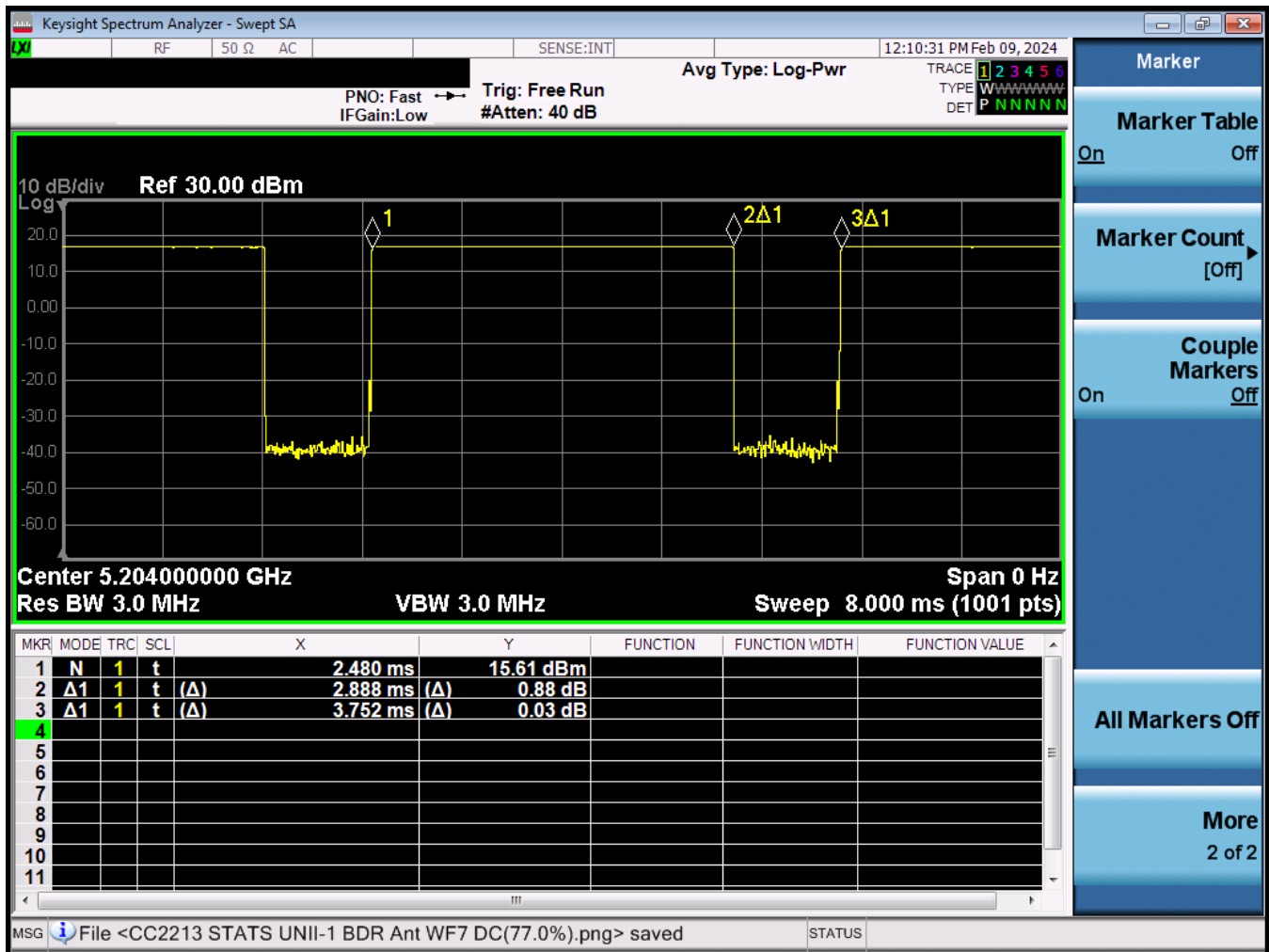


Figure 7-11
NB UNII 1 (BDR) Transmission Plot – Antenna WF7, Variant 2

Equation 7-11
NB UNII 1 (BDR) Duty Cycle Calculation – Antenna WF7, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 77 of 131

REV 22.0

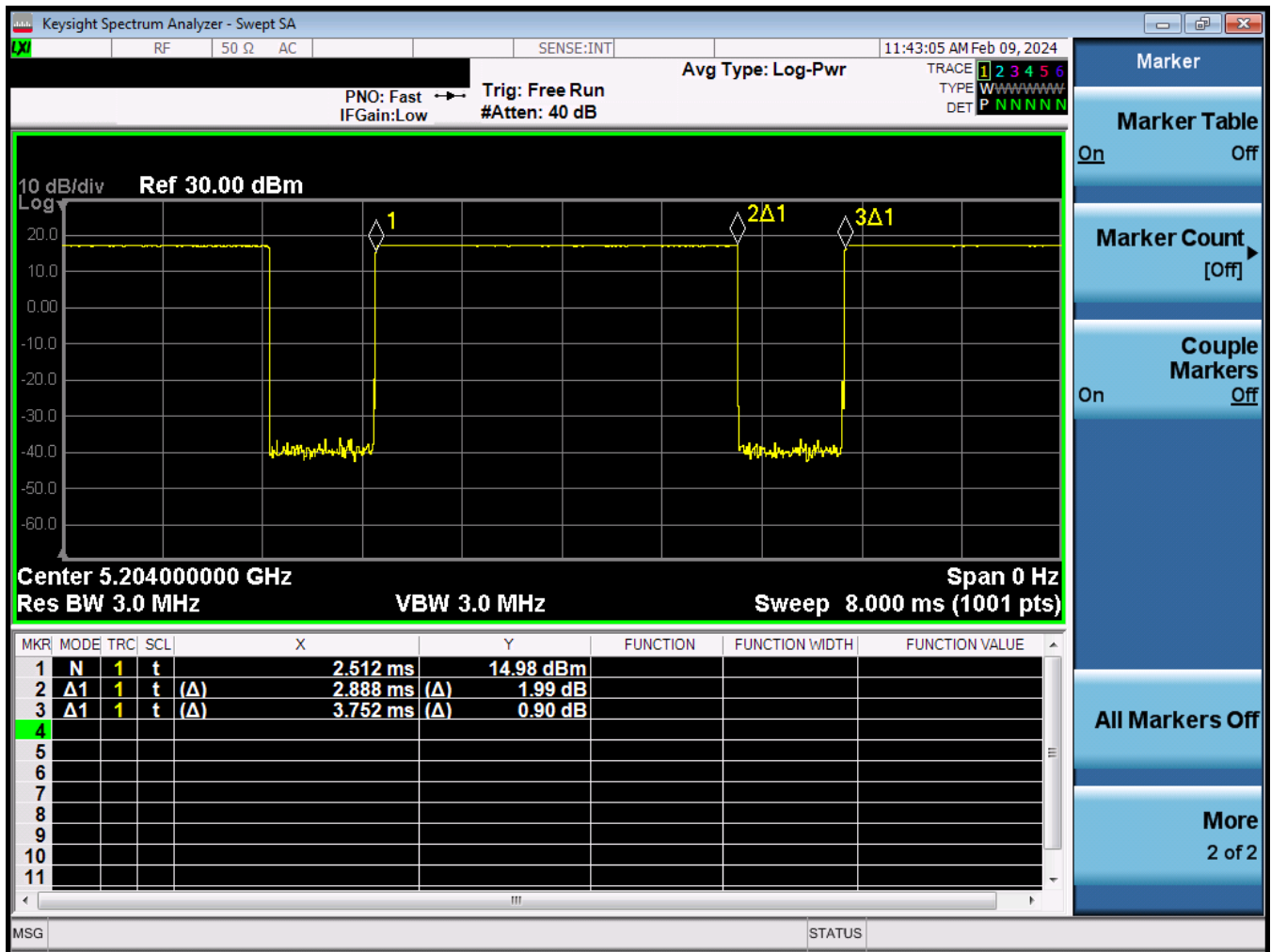


Figure 7-12
NB UNII 1 (BDR) Transmission Plot – Antenna WF8, Variant 1

Equation 7-12
NB UNII 1 (BDR) Duty Cycle Calculation – Antenna WF8, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 78 of 131

REV 22.0

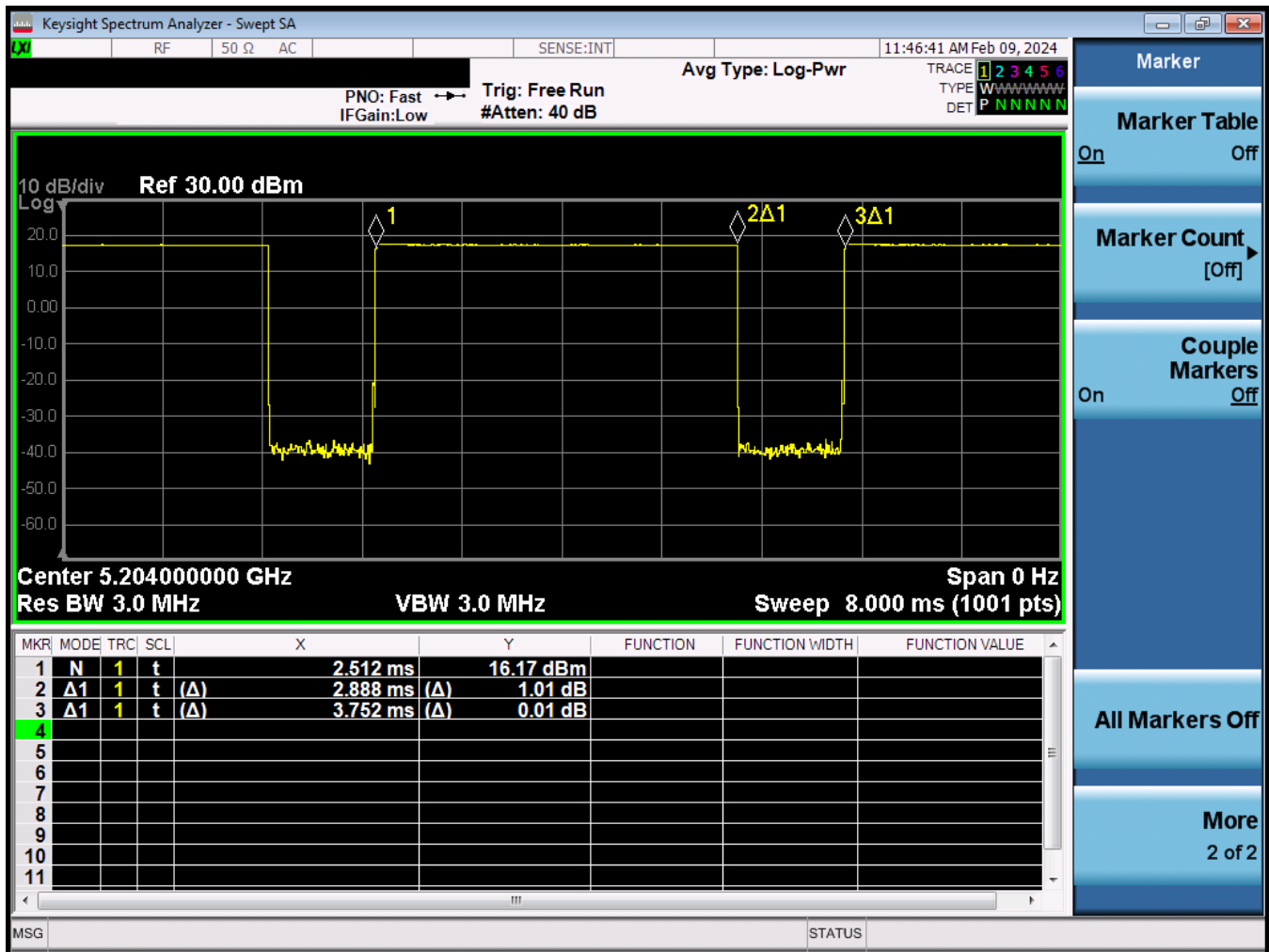


Figure 7-13
NB UNII 1 (BDR) Transmission Plot – Antenna WF8, Variant 2

Equation 7-13
NB UNII 1 (BDR) Duty Cycle Calculation – Antenna WF8, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 79 of 131

REV 22.0

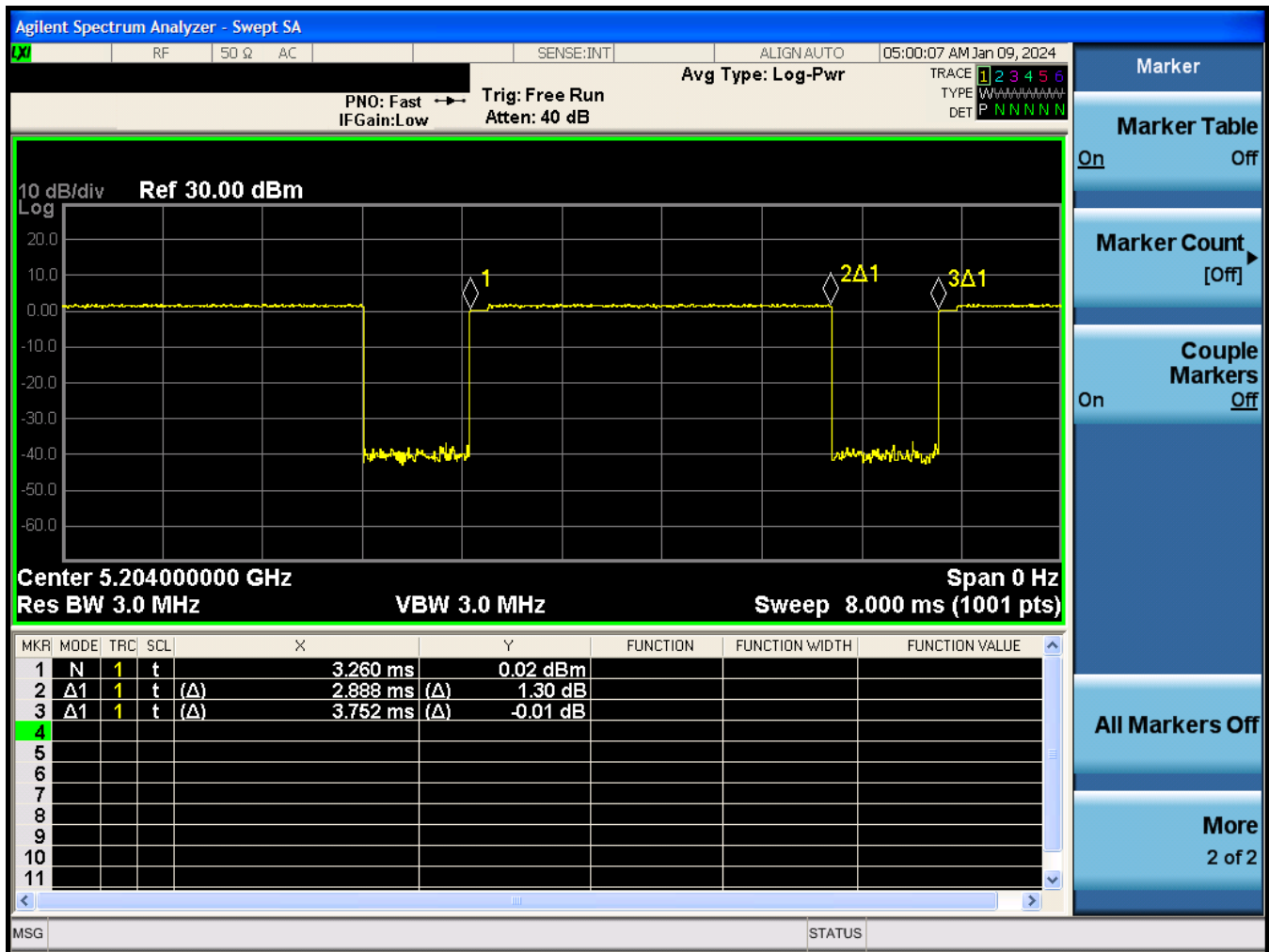


Figure 7-14
NB UNII 1 (HDR8) Transmission Plot – Antenna WF5B, Variant 1

Equation 7-14
NB UNII 1 (HDR8) Duty Cycle Calculation – Antenna WF5B, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 80 of 131

REV 22.0

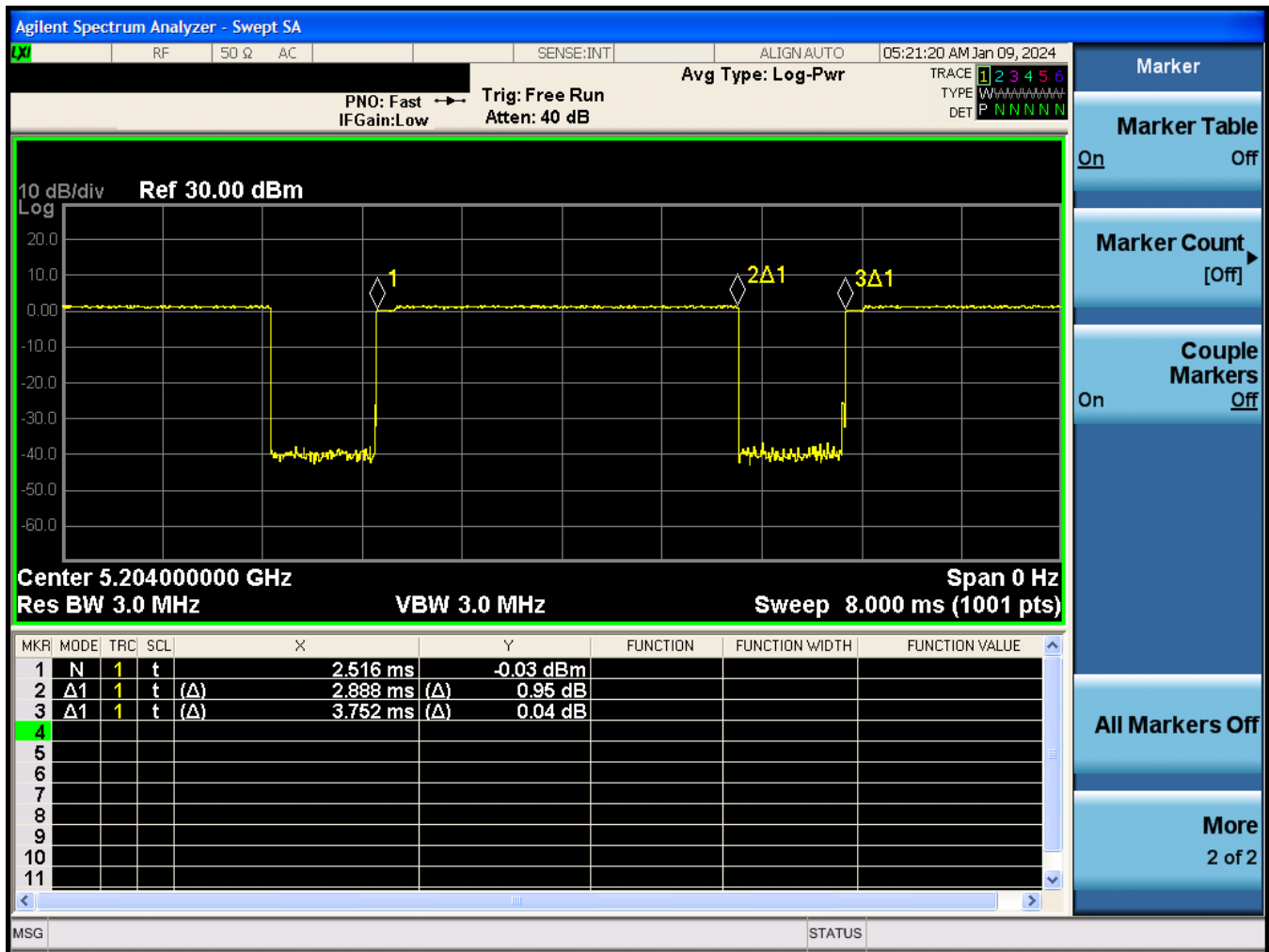


Figure 7-15
NB UNII 1 (HDR8) Transmission Plot – Antenna WF5B, Variant 2

Equation 7-15
NB UNII 1 (HDR8) Duty Cycle Calculation – Antenna WF5B, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 81 of 131

REV 22.0

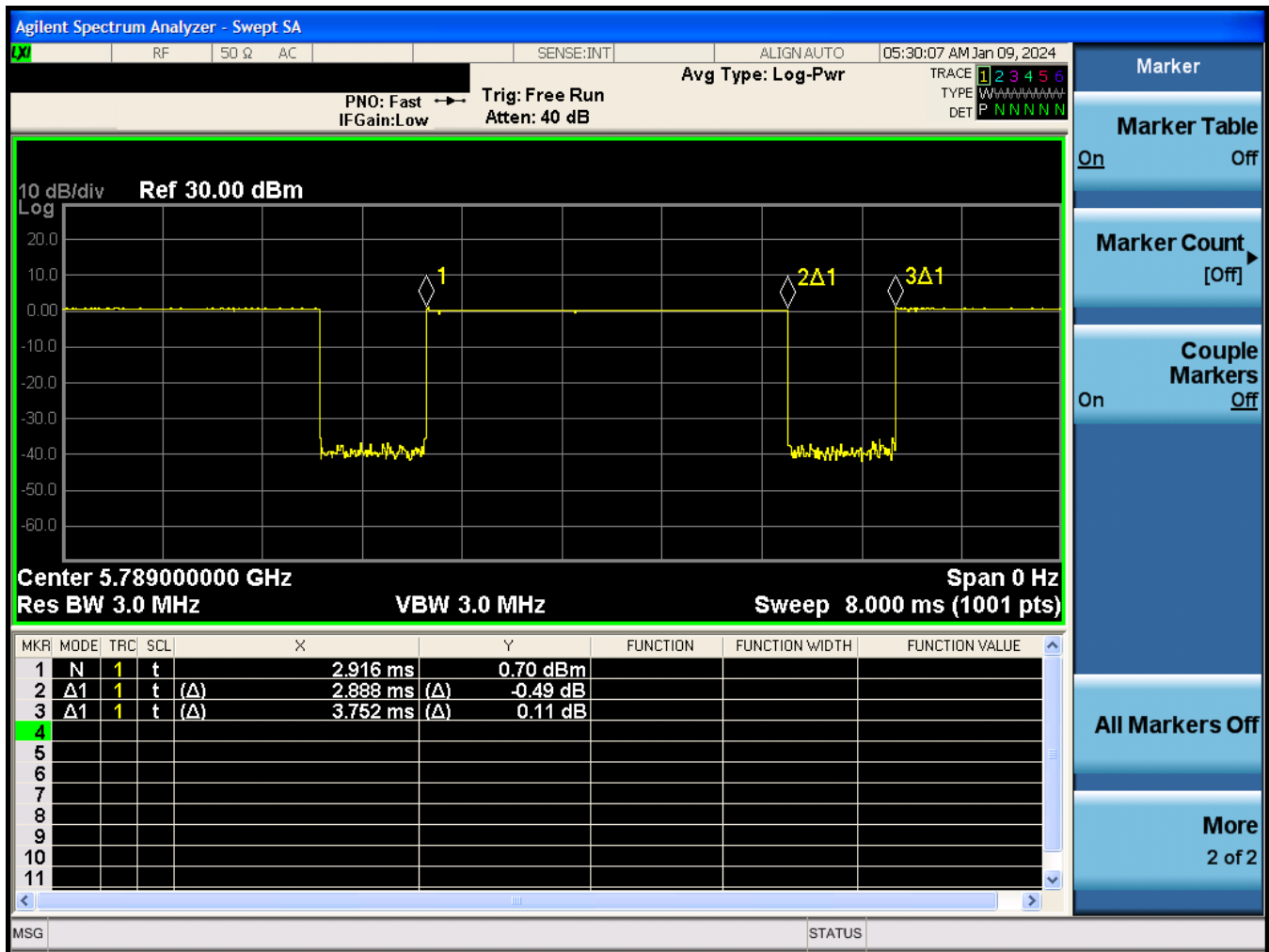


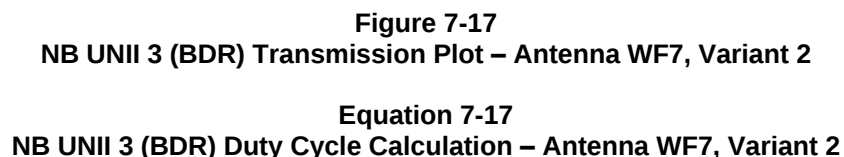
Figure 7-16
NB UNII 3 (BDR) Transmission Plot – Antenna WF7, Variant 1

Equation 7-16
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna WF7, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 82 of 131

REV 22.0



FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 83 of 131

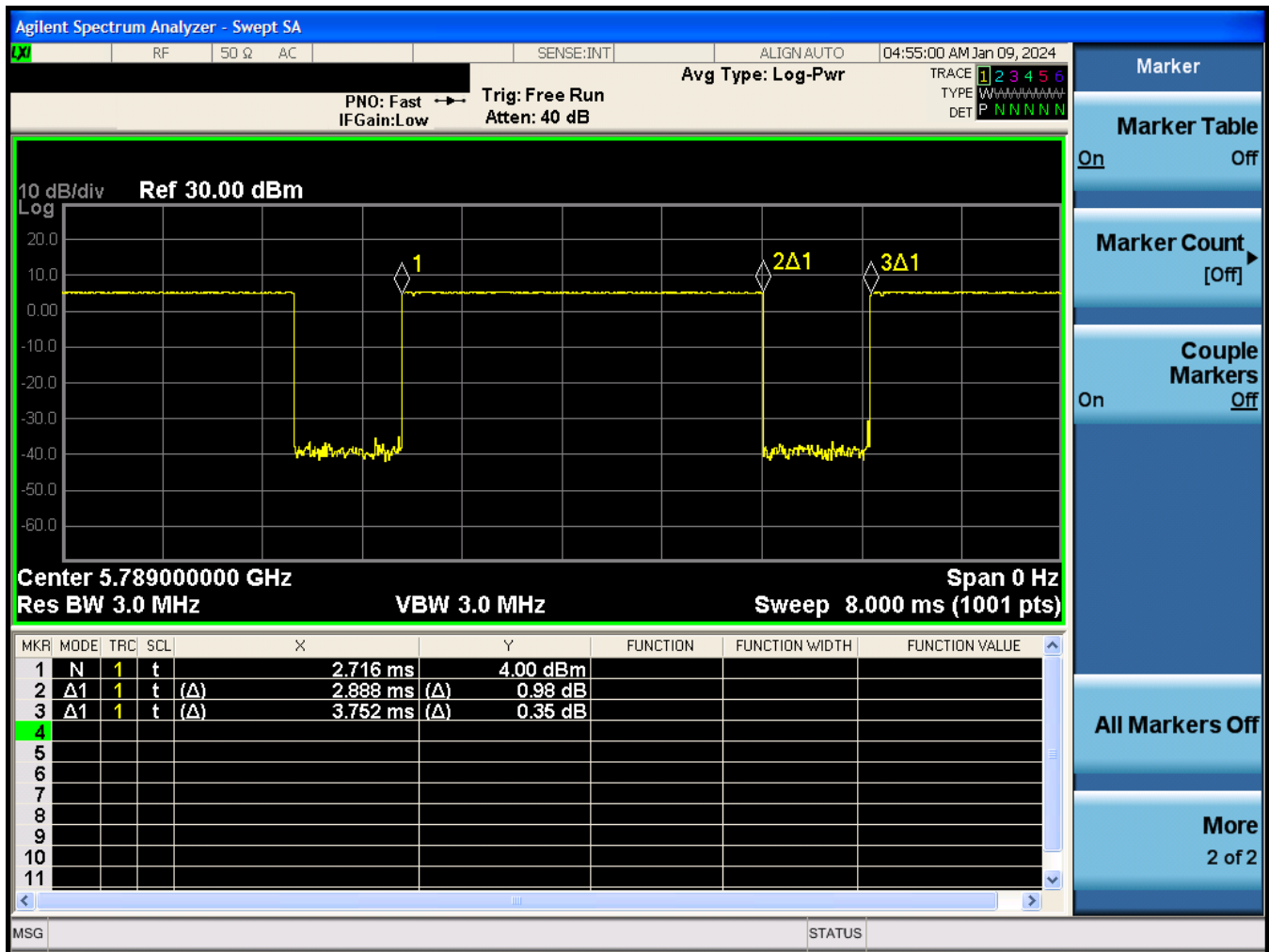


Figure 7-18
NB UNII 3 (BDR) Transmission Plot – Antenna WF8, Variant 1

Equation 7-18
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna WF8, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 84 of 131

REV 22.0

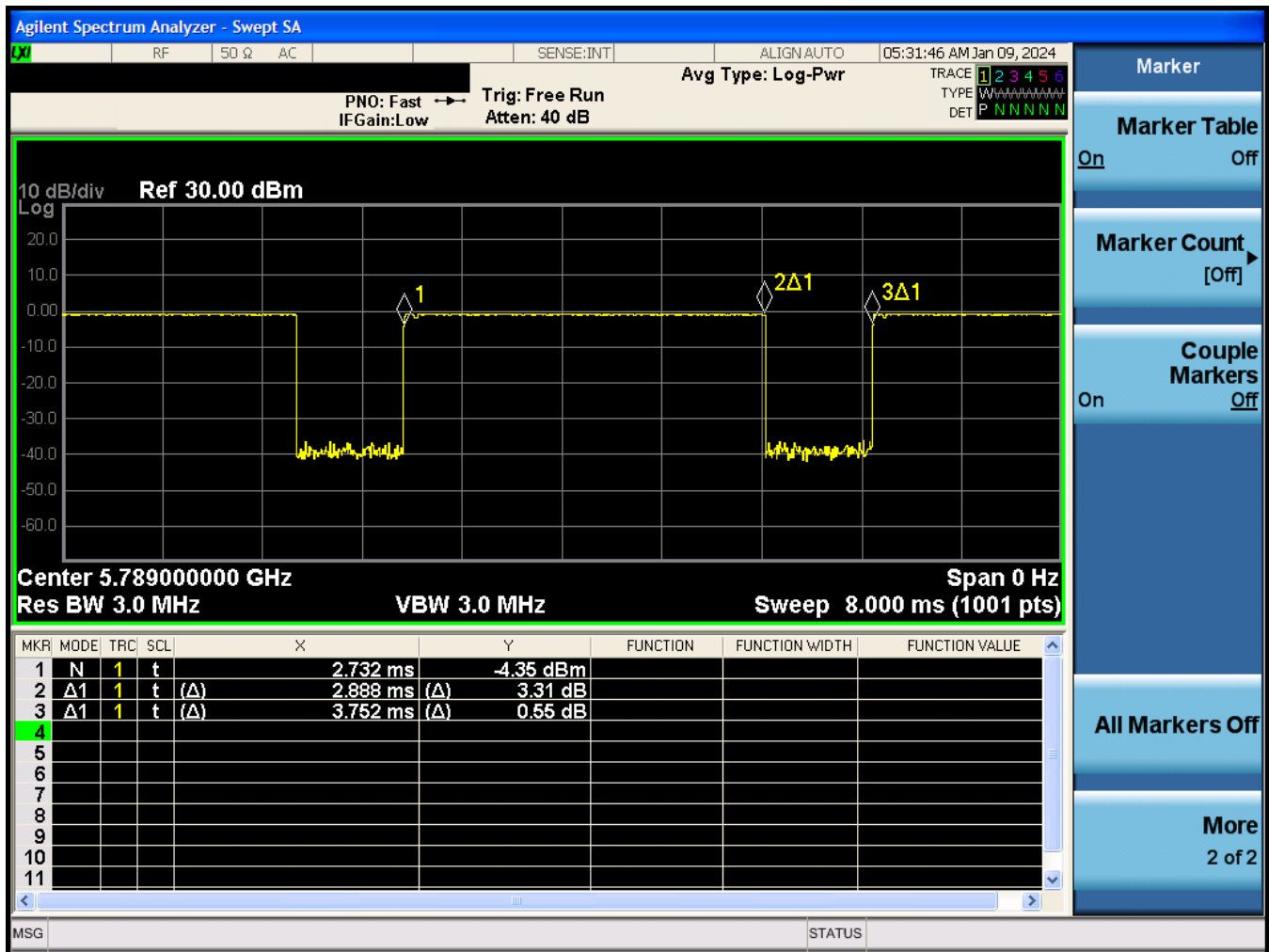


Figure 7-19
NB UNII 3 (BDR) Transmission Plot – Antenna WF8, Variant 2

Equation 7-19
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna WF8, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 85 of 131

REV 22.0

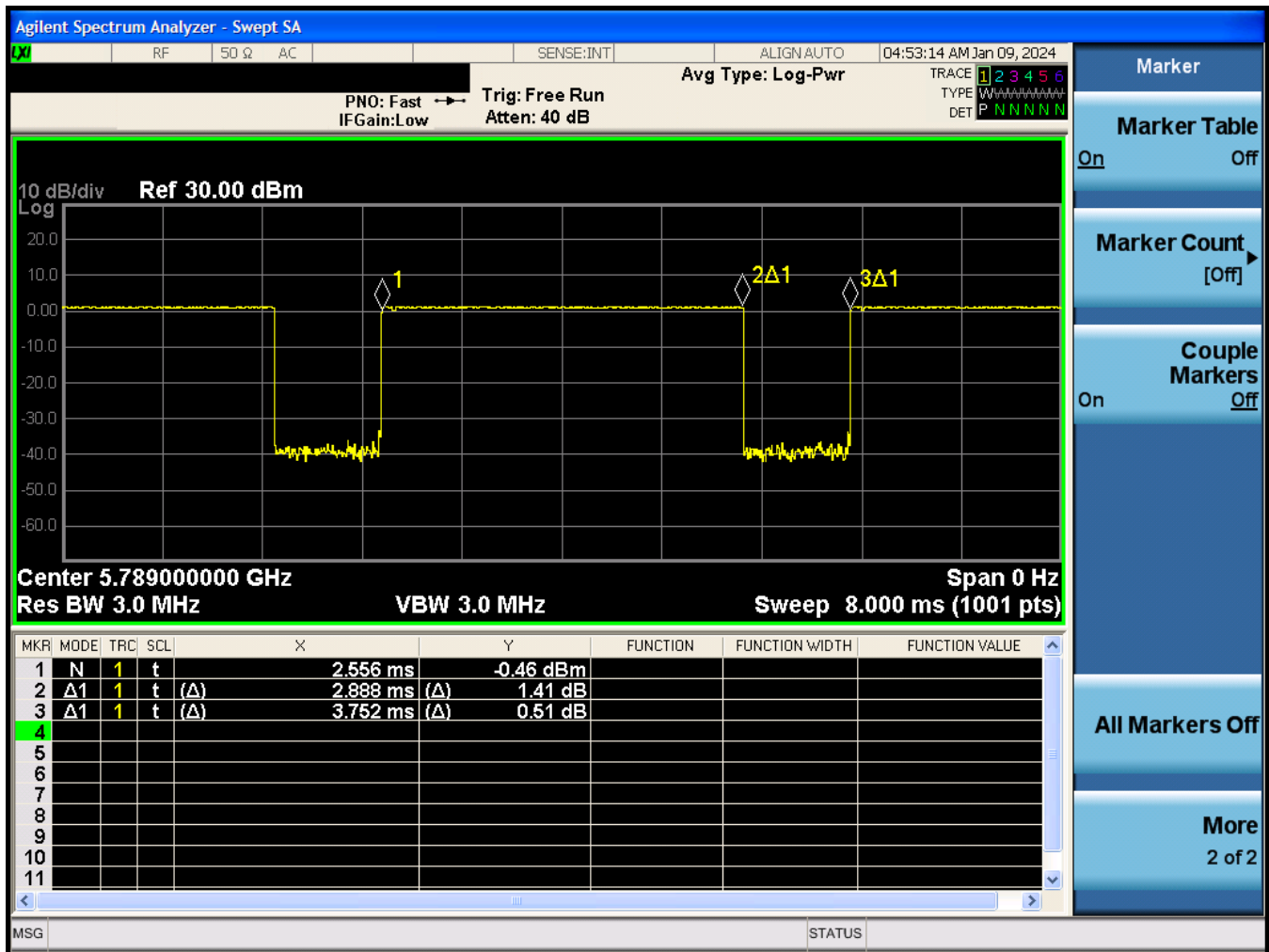


Figure 7-20
NB UNII 3 (BDR) Transmission Plot – Antenna WF5B, Variant 1

Equation 7-20
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna WF5B, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 86 of 131

REV 22.0

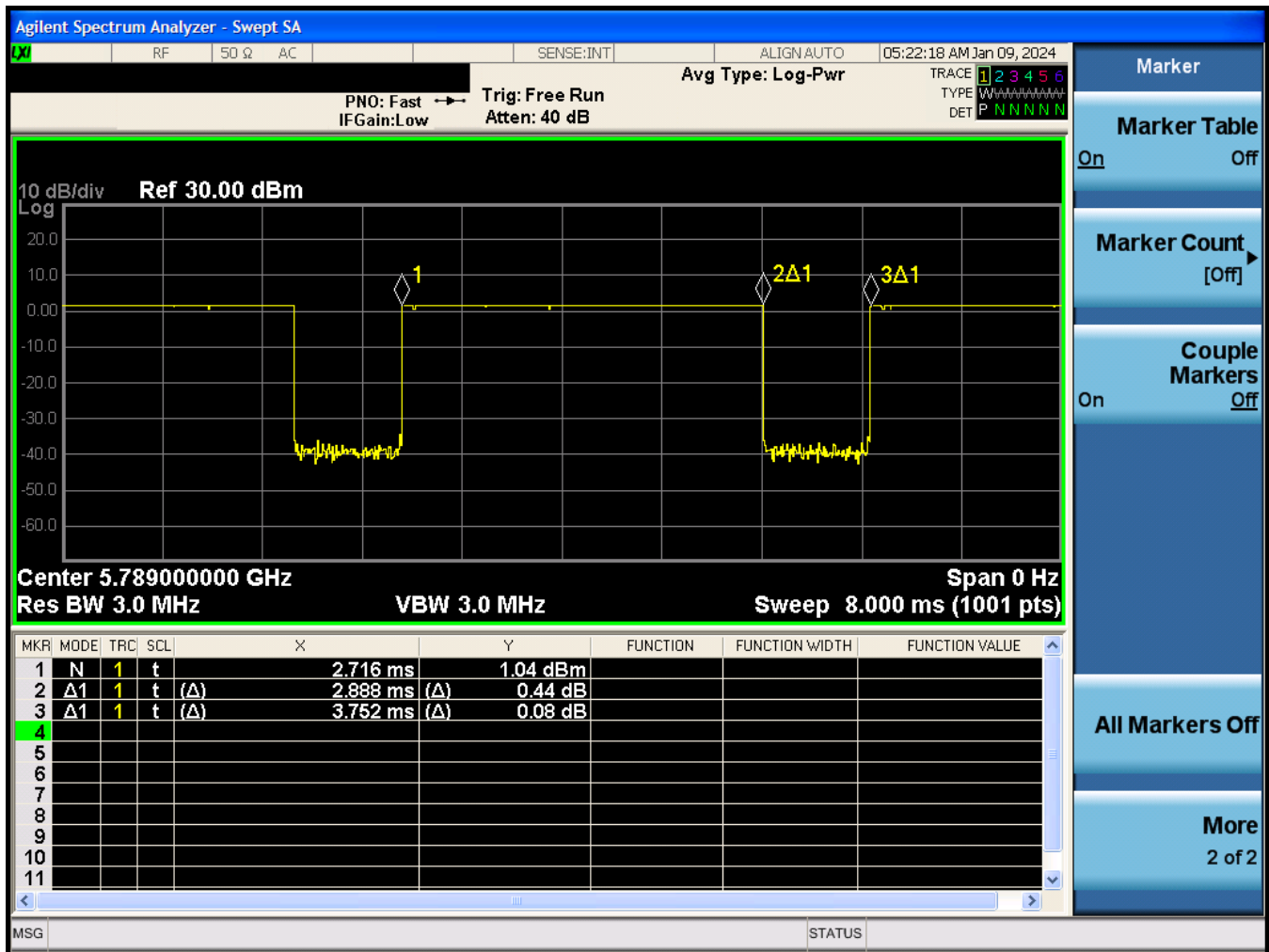


Figure 7-21
NB UNII 3 (BDR) Transmission Plot – Antenna WF5B, Variant 2

Equation 7-21
NB UNII 3 (BDR) Duty Cycle Calculation – Antenna WF5B, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 87 of 131

REV 22.0

7.11 Bluetooth/NB UNII Power Reduction Verification Summary

Table 7-53
NB UNII Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[dBm]	[dBm]	
Ant WF7	NB UNII	2.4 GHz WLAN Ant WF7/WF8/WF9 ON	9.5	3.5	9.30	3.48	PASS
Ant WF8	NB UNII	2.4 GHz WLAN Ant WF7/WF8/WF9 ON	9.5	3.5	9.42	1.59	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

Table 7-2
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[dBm]	[dBm]	
Ant WF7	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7/WF8/WF5B ON	12	6	11.25	4.16	PASS
	802.15.4	5/6 GHz WLAN Ant WF7/WF8/WF5B ON	13.5	7.5	12.51	6.93	PASS
Ant WF8	802.15.4	5/6 GHz WLAN Ant WF7/WF8/WF5B ON	14.5	8.5	13.47	6.87	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF8/WF7/WF5B ON	14	8	13.37	7.53	PASS
Ant WF9	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7/WF8/WF5B ON	16	10	15.19	9.41	PASS
	802.15.4	5/6 GHz WLAN Ant WF7/WF8/WF5B ON	17.5	11.5	16.72	9.20	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Per manufacturer, 2.4 GHz Bluetooth and 802.15.4 share the same antenna path and reduces with the same power backoff when it transmits simultaneously with cellular and 5/6 GHz WLAN antennas. Therefore, conducted power measurements were measured for both mode/band as shown above and applied condition. All conducted power measurements were verified to be below the maximum allowed.

7.12 Notes for Bluetooth

- The Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

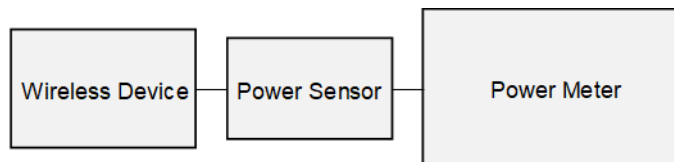


Figure 7-22
Power Measurement Setup

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 88 of 131

REV 22.0

8 SYSTEM VERIFICATION

8.1 Tissue Verification

Table 8-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
02/14/2024	30 Head	22.5	4	0.727	53.823	0.750	55.000	-3.07%	-2.14%
			6	0.727	53.745	0.750	55.000	-3.07%	-2.28%
			12	0.727	53.515	0.750	55.000	-3.07%	-2.70%
			13	0.727	53.480	0.750	55.000	-3.07%	-2.76%
			14	0.727	53.404	0.750	55.000	-3.07%	-2.90%
			30	0.730	52.704	0.750	55.000	-2.67%	-4.17%
			60	0.735	52.001	0.753	54.325	-2.39%	-4.28%
			65	0.736	51.916	0.753	54.213	-2.26%	-4.24%
01/08/2024	2450 Head	19.1	150	0.765	50.032	0.760	52.300	0.66%	-4.34%
			2300	1.644	40.189	1.670	39.500	-1.56%	1.74%
			2310	1.653	40.181	1.679	39.480	-1.55%	1.78%
			2320	1.661	40.171	1.687	39.460	-1.54%	1.80%
			2400	1.724	40.041	1.756	39.289	-1.82%	1.91%
			2450	1.764	39.973	1.800	39.200	-2.00%	1.97%
			2480	1.788	39.903	1.833	39.162	-2.45%	1.89%
			2500	1.806	39.871	1.855	39.136	-2.64%	1.88%
			2510	1.815	39.858	1.866	39.123	-2.73%	1.88%
			2535	1.836	39.822	1.893	39.092	-3.01%	1.87%
			2550	1.848	39.795	1.909	39.073	-3.20%	1.85%
			2560	1.856	39.774	1.920	39.060	-3.33%	1.83%
			2600	1.889	39.689	1.964	39.009	-3.82%	1.74%
			2650	1.935	39.602	2.018	38.945	-4.11%	1.69%
			2680	1.958	39.544	2.051	38.907	-4.53%	1.64%
01/16/2024	2450 Head	19.0	2700	1.974	39.490	2.073	38.882	-4.78%	1.56%
			2300	1.642	40.414	1.670	39.500	-1.68%	2.31%
			2310	1.650	40.408	1.679	39.480	-1.73%	2.35%
			2320	1.658	40.401	1.687	39.460	-1.72%	2.38%
			2400	1.720	40.275	1.756	39.289	-2.05%	2.51%
			2450	1.760	40.219	1.800	39.200	-2.22%	2.60%
			2480	1.784	40.151	1.833	39.162	-2.67%	2.53%
			2500	1.801	40.112	1.855	39.136	-2.91%	2.49%
			2510	1.809	40.098	1.866	39.123	-3.05%	2.49%
			2535	1.830	40.069	1.893	39.092	-3.33%	2.50%
			2550	1.843	40.041	1.909	39.073	-3.46%	2.48%
			2560	1.851	40.016	1.920	39.060	-3.59%	2.45%
			2600	1.885	39.928	1.964	39.009	-4.02%	2.36%
			2650	1.929	39.861	2.018	38.945	-4.41%	2.35%
			2680	1.953	39.808	2.051	38.907	-4.78%	2.32%
			2700	1.970	39.757	2.073	38.882	-4.97%	2.25%

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 89 of 131

REV 22.0

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/08/2024	5200-5800 Head	19.0	5180	4.409	35.946	4.635	36.009	-4.88%	-0.17%
			5190	4.418	35.918	4.645	35.998	-4.89%	-0.22%
			5200	4.431	35.910	4.655	35.986	-4.81%	-0.21%
			5210	4.444	35.904	4.666	35.975	-4.76%	-0.20%
			5220	4.453	35.880	4.676	35.963	-4.77%	-0.23%
			5240	4.479	35.834	4.696	35.940	-4.62%	-0.29%
			5250	4.492	35.825	4.706	35.929	-4.55%	-0.29%
			5260	4.500	35.823	4.717	35.917	-4.60%	-0.26%
			5270	4.506	35.795	4.727	35.906	-4.68%	-0.31%
			5280	4.519	35.774	4.737	35.894	-4.60%	-0.33%
			5290	4.536	35.753	4.748	35.883	-4.47%	-0.36%
			5300	4.548	35.741	4.758	35.871	-4.41%	-0.36%
			5310	4.557	35.726	4.768	35.860	-4.43%	-0.37%
			5320	4.568	35.705	4.778	35.849	-4.40%	-0.40%
			5500	4.766	35.374	4.963	35.643	-3.97%	-0.75%
			5510	4.777	35.356	4.973	35.632	-3.94%	-0.77%
			5520	4.790	35.336	4.983	35.620	-3.87%	-0.80%
			5530	4.800	35.308	4.994	35.609	-3.88%	-0.85%
			5540	4.809	35.283	5.004	35.597	-3.90%	-0.88%
			5550	4.816	35.272	5.014	35.586	-3.95%	-0.88%
			5560	4.827	35.271	5.024	35.574	-3.92%	-0.85%
			5580	4.848	35.245	5.045	35.551	-3.90%	-0.86%
			5600	4.880	35.198	5.065	35.529	-3.65%	-0.93%
			5610	4.894	35.181	5.076	35.518	-3.59%	-0.95%
			5620	4.905	35.161	5.086	35.506	-3.56%	-0.97%
			5640	4.932	35.107	5.106	35.483	-3.41%	-1.06%
			5660	4.956	35.091	5.127	35.460	-3.34%	-1.04%
			5670	4.966	35.087	5.137	35.449	-3.33%	-1.02%
			5680	4.975	35.075	5.147	35.437	-3.34%	-1.02%
			5690	4.982	35.048	5.158	35.426	-3.41%	-1.07%
			5700	4.994	35.017	5.168	35.414	-3.37%	-1.12%
			5710	5.008	34.996	5.178	35.403	-3.28%	-1.15%
			5720	5.020	34.980	5.188	35.391	-3.24%	-1.16%
			5745	5.052	34.926	5.214	35.363	-3.11%	-1.24%
			5750	5.058	34.912	5.219	35.357	-3.08%	-1.26%
			5755	5.063	34.895	5.224	35.351	-3.08%	-1.29%
			5765	5.070	34.882	5.234	35.340	-3.13%	-1.30%
			5775	5.078	34.867	5.245	35.329	-3.18%	-1.31%
			5785	5.090	34.864	5.255	35.317	-3.14%	-1.28%
			5795	5.102	34.843	5.265	35.305	-3.10%	-1.31%
			5800	5.107	34.828	5.270	35.300	-3.09%	-1.34%
			5800	5.107	34.828	5.270	35.300	-3.09%	-1.34%
			5805	5.113	34.813	5.275	35.294	-3.07%	-1.36%
			5825	5.133	34.775	5.296	35.271	-3.08%	-1.41%
			5835	5.144	34.769	5.305	35.230	-3.03%	-1.31%
			5845	5.157	34.758	5.315	35.210	-2.97%	-1.28%
			5855	5.173	34.738	5.325	35.197	-2.85%	-1.30%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5875	5.195	34.692	5.347	35.183	-2.84%	-1.40%
			5885	5.204	34.680	5.357	35.177	-2.86%	-1.41%
			5905	5.229	34.653	5.379	35.163	-2.79%	-1.45%

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 90 of 131

REV 22.0

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/18/2024	5200-5800 Head	20.0	5180	4.507	36.138	4.635	36.009	-2.76%	0.36%
			5190	4.521	36.120	4.645	35.998	-2.67%	0.34%
			5200	4.534	36.117	4.655	35.986	-2.60%	0.36%
			5210	4.542	36.110	4.666	35.975	-2.66%	0.38%
			5220	4.546	36.083	4.676	35.963	-2.78%	0.33%
			5240	4.572	36.024	4.696	35.940	-2.64%	0.23%
			5250	4.586	36.013	4.706	35.929	-2.55%	0.23%
			5260	4.597	35.998	4.717	35.917	-2.54%	0.23%
			5270	4.607	35.974	4.727	35.906	-2.54%	0.19%
			5280	4.618	35.947	4.737	35.894	-2.51%	0.15%
			5290	4.632	35.927	4.748	35.883	-2.44%	0.12%
			5300	4.641	35.918	4.758	35.871	-2.46%	0.13%
			5310	4.652	35.910	4.768	35.860	-2.43%	0.14%
			5320	4.664	35.894	4.778	35.849	-2.39%	0.13%
			5500	4.864	35.536	4.963	35.643	-1.99%	-0.30%
			5510	4.873	35.525	4.973	35.632	-2.01%	-0.30%
			5520	4.885	35.510	4.983	35.620	-1.97%	-0.31%
			5530	4.896	35.484	4.994	35.609	-1.96%	-0.35%
			5540	4.905	35.450	5.004	35.597	-1.98%	-0.41%
			5550	4.918	35.430	5.014	35.586	-1.91%	-0.44%
			5560	4.930	35.429	5.024	35.574	-1.87%	-0.41%
			5580	4.948	35.414	5.045	35.551	-1.92%	-0.39%
			5600	4.979	35.352	5.065	35.529	-1.70%	-0.50%
			5610	4.992	35.332	5.076	35.518	-1.65%	-0.52%
			5620	5.003	35.316	5.086	35.506	-1.63%	-0.54%
			5640	5.030	35.268	5.106	35.483	-1.49%	-0.61%
			5660	5.053	35.233	5.127	35.460	-1.44%	-0.64%
			5670	5.063	35.219	5.137	35.449	-1.44%	-0.65%
			5680	5.068	35.205	5.147	35.437	-1.53%	-0.65%
			5690	5.080	35.178	5.158	35.426	-1.51%	-0.70%
			5700	5.096	35.159	5.168	35.414	-1.39%	-0.72%
			5710	5.111	35.137	5.178	35.403	-1.29%	-0.75%
			5720	5.123	35.123	5.188	35.391	-1.25%	-0.76%
			5745	5.153	35.093	5.214	35.363	-1.17%	-0.76%
			5750	5.159	35.081	5.219	35.357	-1.15%	-0.78%
			5755	5.164	35.064	5.224	35.351	-1.15%	-0.81%
			5765	5.175	35.034	5.234	35.340	-1.13%	-0.87%
			5775	5.185	35.029	5.245	35.329	-1.14%	-0.85%
			5785	5.196	35.028	5.255	35.317	-1.12%	-0.82%
			5795	5.204	35.009	5.265	35.305	-1.16%	-0.84%
			5800	5.210	34.993	5.270	35.300	-1.14%	-0.87%
			5800	5.210	34.993	5.270	35.300	-1.14%	-0.87%
			5805	5.219	34.982	5.275	35.294	-1.06%	-0.88%
			5825	5.245	34.952	5.296	35.271	-0.96%	-0.90%
			5835	5.255	34.939	5.305	35.230	-0.94%	-0.83%
			5845	5.263	34.919	5.315	35.210	-0.98%	-0.83%
			5855	5.277	34.896	5.325	35.197	-0.90%	-0.86%
			5865	5.290	34.874	5.336	35.190	-0.86%	-0.90%
			5865	5.290	34.874	5.336	35.190	-0.86%	-0.90%
			5865	5.290	34.874	5.336	35.190	-0.86%	-0.90%
			5875	5.301	34.858	5.347	35.183	-0.86%	-0.92%
			5885	5.311	34.838	5.357	35.177	-0.86%	-0.96%
			5905	5.334	34.803	5.379	35.163	-0.84%	-1.02%

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 91 of 131

REV 22.0

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/08/2024	6000 Head	19.7	5935	5.298	34.618	5.411	35.143	-2.09%	-1.49%
			5970	5.351	34.594	5.448	35.120	-1.78%	-1.50%
			5985	5.369	34.587	5.464	35.110	-1.74%	-1.49%
			6000	5.386	34.570	5.480	35.100	-1.72%	-1.51%
			6025	5.405	34.492	5.510	35.070	-1.91%	-1.65%
			6065	5.449	34.374	5.557	35.022	-1.94%	-1.85%
			6075	5.469	34.365	5.569	35.010	-1.80%	-1.84%
			6085	5.487	34.361	5.580	34.998	-1.67%	-1.82%
			6185	5.589	34.164	5.698	34.878	-1.91%	-2.05%
			6275	5.703	34.038	5.805	34.770	-1.76%	-2.11%
			6285	5.708	34.010	5.816	34.758	-1.86%	-2.15%
			6305	5.732	33.936	5.840	34.734	-1.85%	-2.30%
			6345	5.798	33.854	5.887	34.686	-1.51%	-2.40%
			6475	5.952	33.652	6.041	34.530	-1.47%	-2.54%
			6485	5.961	33.650	6.052	34.518	-1.50%	-2.51%
			6500	5.975	33.637	6.070	34.500	-1.57%	-2.50%
			6505	5.979	33.627	6.076	34.494	-1.60%	-2.51%
			6545	6.030	33.532	6.122	34.446	-1.50%	-2.65%
			6665	6.198	33.338	6.265	34.302	-1.07%	-2.81%
			6675	6.203	33.312	6.273	34.290	-1.12%	-2.85%
			6685	6.208	33.281	6.285	34.278	-1.23%	-2.91%
			6715	6.253	33.210	6.319	34.242	-1.04%	-3.01%
			6785	6.334	33.206	6.400	34.158	-1.03%	-2.79%
			6825	6.364	33.062	6.447	34.110	-1.29%	-3.07%
			6985	6.579	32.797	6.633	33.918	-0.81%	-3.31%
			7500	7.206	31.866	7.240	33.300	-0.47%	-4.31%
			7980	7.753	31.202	7.816	32.724	-0.81%	-4.65%
			8000	7.763	31.148	7.840	32.700	-0.98%	-4.75%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 92 of 131

REV 22.0

8.2 Test System Verification

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in SAR System Validation Appendix.

Table 8-2
System Verification Results

System Verification TARGET & MEASURED																			
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)
AM14	13	HEAD	02/14/2024	22.6	21.9	1.00	1004	7360	534	0.552	0.578	0.552	-4.50%	0.341	0.356	0.341	-4.21%		
AM8	2450	HEAD	01/08/2024	19.9	19.2	0.10	921	7421	604	5.160	54.200	51.600	-4.80%	2.420	25.500	24.200	-5.10%		
AM8	2450	HEAD	01/16/2024	20.6	19.6	0.10	921	7421	604	5.090	54.200	50.900	-6.09%	2.410	25.500	24.100	-5.49%		
AM10	2450	HEAD	02/28/2024	19.0	19.5	0.10	750	7416	701	4.950	52.600	49.500	-5.89%	2.330	24.500	23.300	-5.31%		
AM9	5250	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	3.760	80.500	75.200	-6.58%	1.080	22.900	21.600	-5.68%		
AM9	5250	HEAD	01/18/2024	23.0	20.1	0.05	1123	3746	1237	3.710	80.500	74.200	-7.83%	1.070	22.900	21.400	-6.55%		
AM9	5600	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	4.260	83.700	85.200	1.79%	1.210	23.700	24.200	2.11%		
AM9	5600	HEAD	01/18/2024	23.0	20.1	0.05	1123	3746	1237	4.050	83.700	81.000	-3.23%	1.140	23.700	22.800	-3.80%		
AM9	5750	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	3.860	80.500	77.200	-4.10%	1.110	22.700	22.200	-2.20%		
AM9	5750	HEAD	01/18/2024	23.0	20.1	0.05	1123	3746	1237	3.750	80.500	75.000	-6.83%	1.080	22.700	21.800	-4.85%		
AM9	5800	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	3.820	80.500	76.400	-5.09%	1.090	22.500	21.800	-3.11%		
AM9	5800	HEAD	01/18/2024	23.0	20.1	0.05	1123	3746	1237	3.810	80.500	76.200	-5.34%	1.080	22.500	21.600	-4.00%		
AM2	6500	HEAD	01/08/2024	21.5	19.0	0.03	1019	7420	1333	7.760	293.000	310.400	5.94%	1.410	54.100	1.353	4.21%	34.5	1320
																		1380	4.55%

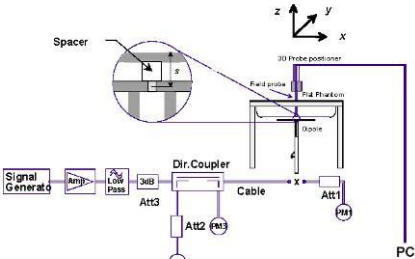


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 93 of 131

REV 22.0

8.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

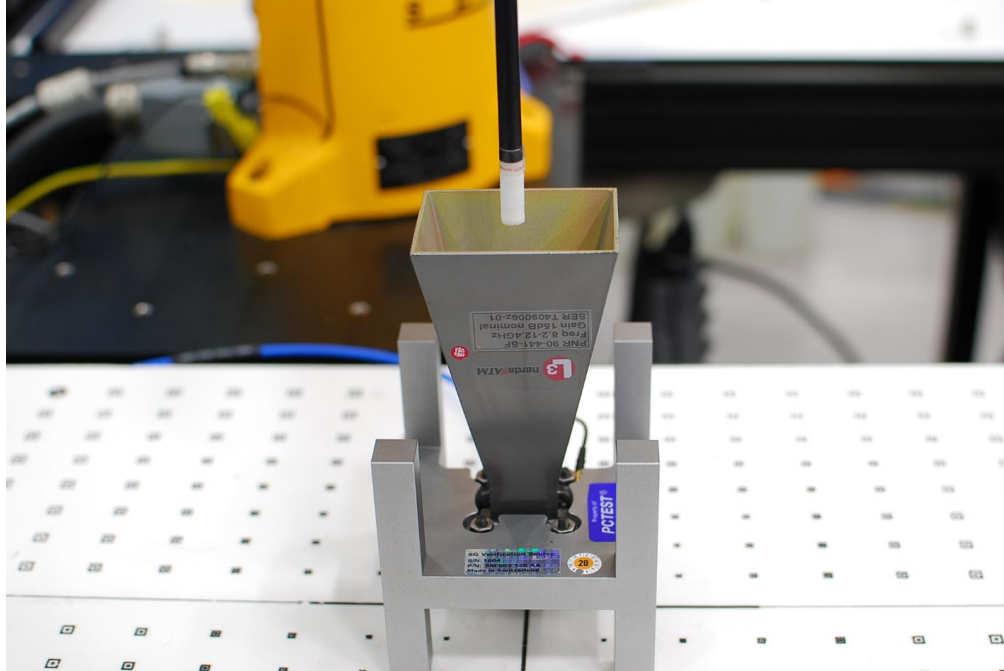


Figure 8-3
System Verification Setup Photo

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 94 of 131

REV 22.0

**Table 8-3
10 GHz Verification Results**

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
AM5	10	01/11/2024	1002	9407	89.1	53.50	52.80	0.06	53.60	53.10	0.04
AM5	10	01/13/2024	1002	9407	89.1	54.40	52.80	0.13	54.50	53.10	0.11
AM5	10	01/17/2024	1002	9407	89.1	55.40	52.80	0.21	55.50	53.10	0.19
AM5	10	01/19/2024	1002	9407	89.1	57.00	52.80	0.33	57.10	53.10	0.32
AM5	10	01/21/2024	1002	9407	89.1	52.40	52.80	-0.03	52.50	53.10	-0.05
AM5	10	01/25/2024	1002	9407	89.1	56.60	52.80	0.30	56.80	53.10	0.29
AM5	10	01/27/2024	1002	9407	89.1	53.70	52.80	0.07	53.80	53.10	0.06
AM5	10	01/31/2024	1002	9407	89.1	52.40	52.80	-0.03	52.50	53.10	-0.05

Note: A **10 mm distance spacing** was used from the reference horn antenna aperture to the probe element.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 95 of 131

REV 22.0

9 SAR DATA SUMMARY

9.1 Standalone SAR Data

Table 9-1
2.4 GHz WLAN Body SAR Data - Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	9QXK0	99.4	-0.03	2412	1	1	11.75	10.40	Back	0	V1	0.855	0.356	1.365	1.006	1.174	0.489	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	-0.06	2412	1	1	11.75	10.51	Back	0	V2	0.841	0.350	1.330	1.006	1.125	0.468	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	-0.04	2437	6	1	11.75	10.63	Back	0	V2	0.825	0.340	1.294	1.006	1.074	0.443	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	-0.01	2462	11	1	11.75	10.60	Back	0	V2	0.839	0.343	1.303	1.006	1.100	0.450	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	-0.01	2437	6	1	11.75	10.63	Top	0	V2	0.312	0.100	1.294	1.006	0.406	0.130	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	0.02	2437	6	1	11.75	10.63	Bottom	0	V2	0.023	0.009	1.294	1.006	0.030	0.012	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	0.07	2437	6	1	11.75	10.63	Right	0	V2	0.000	0.000	1.294	1.006	0.000	0.000	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	-0.01	2412	1	1	11.75	10.51	Left	0	V2	0.687	0.249	1.330	1.006	0.919	0.333	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	0.00	2437	6	1	11.75	10.63	Left	0	V2	0.667	0.240	1.294	1.006	0.868	0.312	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	MJ7F3	99.4	0.00	2462	11	1	11.75	10.60	Left	0	V2	0.710	0.254	1.303	1.006	0.931	0.333	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Table 9-2
2.4 GHz WLAN Body SAR Data - Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	-0.01	2412	1	1	13.00	12.06	Back	0	V2	0.513	0.249	1.242	1.006	0.641	0.311	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	0.05	2412	1	1	13.00	12.06	Top	0	V2	0.443	0.138	1.242	1.006	0.554	0.172	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	0.18	2412	1	1	13.00	12.06	Bottom	0	V2	0.036	0.014	1.242	1.006	0.045	0.017	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	-0.01	2412	1	1	13.00	12.06	Right	0	V2	0.847	0.314	1.242	1.006	1.058	0.392	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	-0.13	2437	6	1	13.00	11.80	Right	0	V2	0.810	0.304	1.318	1.006	1.074	0.403	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	-0.02	2462	11	1	13.00	12.00	Right	0	V2	0.918	0.337	1.259	1.006	1.163	0.427	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	90XW0	99.4	-0.02	2462	11	1	13.00	12.05	Right	0	V1	0.945	0.339	1.245	1.006	1.184	0.425	A1
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	MJ7F3	99.4	0.05	2412	1	1	13.00	12.06	Left	0	V2	0.000	0.000	1.242	1.006	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Table 9-3
2.4GHz WLAN Body SAR Data - Antenna WF9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	0.00	2412	1	1	15.00	13.86	Back	0	V2	0.869	0.428	1.300	1.006	1.136	0.560	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	0.01	2437	6	1	15.00	13.90	Back	0	V2	0.898	0.443	1.288	1.006	1.164	0.574	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	JM9FH	99.4	0.00	2437	6	1	15.00	13.84	Back	0	V1	0.843	0.410	1.306	1.006	1.108	0.539	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	0.00	2462	11	1	15.00	14.03	Back	0	V2	0.837	0.413	1.250	1.006	1.053	0.519	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	-0.02	2462	11	1	15.00	14.03	Top	0	V2	0.269	0.125	1.250	1.006	0.338	0.157	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	-0.15	2462	11	1	15.00	14.03	Bottom	0	V2	0.011	0.003	1.250	1.006	0.014	0.004	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	0.09	2462	11	1	15.00	14.03	Right	0	V2	0.000	0.000	1.250	1.006	0.000	0.000	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	WGQ1F	99.4	0.01	2462	11	1	15.00	14.03	Left	0	V2	0.002	0.000	1.250	1.006	0.003	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 96 of 131

REV 22.0

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Table 9-4
5 GHz WLAN Body SAR Data - Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	VMQJ1	97.6	0.20	5230	46	U-NII-1	13.5	17.75	17.08	Back	0	V2	0.169	0.063	1.167	1.024	0.202	0.075	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	VMQJ1	97.6	0.01	5230	46	U-NII-1	13.5	17.75	17.08	Top	0	V2	0.000	0.000	1.167	1.024	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	VMQJ1	97.6	0.05	5230	46	U-NII-1	13.5	17.75	17.08	Bottom	0	V2	0.035	0.003	1.167	1.024	0.042	0.004	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	VMQJ1	97.6	0.05	5190	38	U-NII-1	13.5	16.00	14.39	Right	0	V2	0.512	0.164	1.449	1.024	0.760	0.243	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	VMQJ1	97.6	-0.01	5230	46	U-NII-1	13.5	17.75	17.08	Right	0	V2	0.983	0.316	1.167	1.024	1.175	0.378	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	45XKN	97.6	-0.03	5230	46	U-NII-1	13.5	17.75	17.06	Right	0	V1	0.976	0.322	1.172	1.024	1.171	0.386	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	VMQJ1	97.6	0.08	5230	46	U-NII-1	13.5	17.75	17.08	Left	0	V2	0.013	0.004	1.167	1.024	0.016	0.005	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	0.07	5610	122	U-NII-2C	29.3	17.25	16.38	Back	0	V1	0.002	0.029	1.222	1.050	0.118	0.037	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	0.02	5610	122	U-NII-2C	29.3	17.25	16.38	Top	0	V1	0.000	0.000	1.222	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	0.01	5610	122	U-NII-2C	29.3	17.25	16.38	Bottom	0	V1	0.041	0.007	1.222	1.050	0.053	0.009	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	0.04	5530	106	U-NII-2C	29.3	15.00	13.97	Right	0	V1	0.885	0.288	1.268	1.050	1.178	0.383	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	-0.07	5610	122	U-NII-2C	29.3	17.25	16.38	Right	0	V1	0.922	0.299	1.222	1.050	1.183	0.384	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	45XKN	95.2	0.08	5610	122	U-NII-2C	29.3	17.25	16.00	Right	0	V2	0.841	0.267	1.334	1.050	1.178	0.374	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	0.00	5690	138	U-NII-2C	29.3	17.25	16.09	Right	0	V1	0.785	0.246	1.306	1.050	1.076	0.337	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	34HU0	95.2	0.02	5610	122	U-NII-2C	29.3	17.25	16.38	Left	0	V1	0.007	0.000	1.222	1.050	0.009	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	45XKN	95.2	0.01	5775	155	U-NII-3	29.3	17.00	16.26	Back	0	V1	0.088	0.026	1.186	1.050	0.110	0.032	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	45XKN	95.2	0.05	5775	155	U-NII-3	29.3	17.00	16.26	Top	0	V1	0.000	0.000	1.186	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	45XKN	95.2	0.04	5775	155	U-NII-3	29.3	17.00	16.26	Bottom	0	V1	0.061	0.012	1.186	1.050	0.076	0.015	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	45XKN	95.2	-0.02	5775	155	U-NII-3	29.3	17.00	16.26	Right	0	V1	0.915	0.279	1.186	1.050	1.139	0.347	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	TKQJT	95.2	0.00	5775	155	U-NII-3	29.3	17.00	16.29	Right	0	V2	0.894	0.276	1.178	1.050	1.106	0.341	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	45XKN	95.2	0.02	5775	155	U-NII-3	29.3	17.00	16.26	Left	0	V1	0.000	0.000	1.186	1.050	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 9-5
5 GHz WLAN Body SAR Data - Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	HK37W	95.2	-0.01	5290	58	U-NII-2A	29.3	8.50	7.57	Back	0	V1	0.909	0.215	1.239	1.050	1.183	0.280	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.03	5290	58	U-NII-2A	29.3	8.50	7.56	Back	0	V2	0.757	0.173	1.242	1.050	0.987	0.226	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	HK37W	95.2	0.01	5290	58	U-NII-2A	29.3	8.50	7.57	Top	0	V1	0.098	0.024	1.239	1.050	0.127	0.031	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	HK37W	95.2	0.09	5290	58	U-NII-2A	29.3	8.50	7.57	Bottom	0	V1	0.000	0.000	1.239	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	HK37W	95.2	0.07	5290	58	U-NII-2A	29.3	8.50	7.57	Right	0	V1	0.000	0.000	1.239	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	HK37W	95.2	-0.17	5290	58	U-NII-2A	29.3	8.50	7.57	Left	0	V1	0.135	0.027	1.239	1.050	0.176	0.035	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.05	5530	106	U-NII-2C	29.3	8.25	7.69	Back	0	V2	0.933	0.214	1.138	1.050	1.115	0.256	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	HK37W	95.2	0.05	5610	122	U-NII-2C	29.3	8.25	7.72	Back	0	V1	0.898	0.202	1.130	1.050	1.065	0.240	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.02	5610	122	U-NII-2C	29.3	8.25	7.72	Back	0	V2	0.955	0.213	1.130	1.050	1.133	0.253	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	-0.11	5610	122	U-NII-2C	29.3	8.25	7.72	Back	0	V2	0.948	0.217	1.130	1.050	1.125	0.257	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.04	5690	138	U-NII-2C	29.3	8.25	7.70	Back	0	V2	0.901	0.201	1.135	1.050	1.074	0.240	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.03	5610	122	U-NII-2C	29.3	8.25	7.72	Top	0	V2	0.134	0.033	1.130	1.050	0.159	0.039	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.01	5610	122	U-NII-2C	29.3	8.25	7.72	Bottom	0	V2	0.000	0.000	1.130	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.01	5610	122	U-NII-2C	29.3	8.25	7.72	Right	0	V2	0.000	0.000	1.130	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	4M2G6	95.2	0.04	5610	122	U-NII-2C	29.3	8.25	7.72	Left	0	V2	0.117	0.022	1.130	1.050	0.139	0.026	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	9QXK0	95.2	0.04	5775	155	U-NII-3	29.3	8.25	8.07	Back	0	V1	1.070	0.248	1.042	1.050	1.171	0.271	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	MI7F3	95.2	-0.18	5775	155	U-NII-3	29.3	8.25	8.15	Back	0	V2	1.050	0.239	1.023	1.050	1.128	0.257	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	9QXK0	95.2	-0.21	5775	155	U-NII-3	29.3	8.25	8.07	Top	0	V1	0.171	0.047	1.042	1.050	0.187	0.051	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	9QXK0	95.2	0.09	5775	155	U-NII-3	29.3	8.25	8.07	Bottom	0	V1	0.000	0.000	1.042	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	9QXK0	95.2	0.03	5775	155	U-NII-3	29.3	8.25	8.07	Right	0	V1	0.000	0.000	1.042	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7	9QXK0	95.2	0.13	5775	155	U-NII-3	29.3	8.25	8.07	Left	0	V1	0.139	0.025	1.042	1.050	0.152	0.027	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							
Spatial Peak																	Body						
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement.

Table 9-6
5 GHz WLAN Body SAR Data - Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	-0.01	5210	42	U-NII-1	29.3	9.25	9.18	Back	0	V2	0.488	0.135	1.016	1.050	0.521	0.144	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.00	5210	42	U-NII-1	29.3	9.25	9.18	Top	0	V2	0.191	0.048	1.016	1.050	0.204	0.051	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.08	5210	42	U-NII-1	29.3	9.25	9.18	Bottom	0	V2	0.006	0.000	1.016	1.050	0.006	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	-0.06	5210	42	U-NII-1	29.3	9.25	9.20	Right	0	V1	1.070	0.249	1.012	1.050	1.137	0.265	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.01	5210	42	U-NII-1	29.3	9.25	9.18	Right	0	V2	1.110	0.260	1.016	1.050	1.184	0.277	A2
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	-0.14	5210	42	U-NII-1	29.3	9.25	9.18	Right	0	V2	1.110	0.259	1.016	1.050	1.184	0.276	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.04	5210	42	U-NII-1	29.3	9.25	9.18	Left	0	V2	0.000	0.000	1.016	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	0.02	5610	122	U-NII-2C	29.3	8.50	7.23	Back	0	V1	0.375	0.096	1.340	1.050	0.528	0.135	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	-0.09	5610	122	U-NII-2C	29.3	8.50	7.23	Top	0	V1	0.095	0.018	1.340	1.050	0.134	0.025	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	0.03	5610	122	U-NII-2C	29.3	8.50	7.23	Bottom	0	V1	0.000	0.000	1.340	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	0.09	5530	106	U-NII-2C	29.3	8.50	7.22	Right	0	V1	0.792	0.171	1.343	1.050	1.117	0.241	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	XHJF	95.2	0.03	5610	122	U-NII-2C	29.3	8.50	7.41	Right	0	V2	0.826	0.183	1.285	1.050	1.114	0.247	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	0.02	5610	122	U-NII-2C	29.3	8.50	7.23	Back	0	V1	0.343	0.140	1.343	1.050	0.484	0.133	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	0.05	5690	138	U-NII-2C	29.3	8.50	7.11	Right	0	V1	0.705	0.150	1.377	1.050	1.019	0.217	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	0.06	5610	122	U-NII-2C	29.3	8.50	7.23	Left	0	V1	0.000	0.000	1.340	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.01	5775	155	U-NII-3	29.3	9.00	8.93	Back	0	V2	0.709	0.172	1.016	1.050	0.756	0.183	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.17	5775	155	U-NII-3	29.3	9.00	8.93	Top	0	V2	0.140	0.034	1.016	1.050	0.149	0.036	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.01	5775	155	U-NII-3	29.3	9.00	8.93	Bottom	0	V2	0.003	0.001	1.016	1.050	0.003	0.001	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	-0.13	5775	155	U-NII-3	29.3	9.00	8.93	Right	0	V2	1.110	0.252	1.016	1.050	1.184	0.269	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	2F3VY	95.2	-0.02	5775	155	U-NII-3	29.3	9.00	8.87	Right	0	V1	1.070	0.235	1.030	1.050	1.157	0.254	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	-0.11	5775	155	U-NII-3	29.3	9.00	8.91	Right	0	V2	0.990	0.247	1.016	1.050	1.163	0.263	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	WDXN	95.2	0.09	5775	155	U-NII-3	29.3	9.00	8.93	Left	0	V2	1.002	0.000	1.016	1.050	0.002	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg [mW/g]						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 9-7
6GHz WLAN Body SAR Data - Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	0.01	6025	15	68.1	16.00	15.29	Back	0	V1	0.076	0.026	1.178	1.024	0.092	0.031	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	0.03	6025	15	68.1	16.00	15.29	Top	0	V1	0.000	0.000	1.178	1.024	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	-0.15	6025	15	68.1	16.00	15.29	Bottom	0	V1	0.106	0.032	1.178	1.024	0.128	0.039	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	0.04	6025	15	68.1	16.00	15.29	Right	0	V1	0.857	0.265	1.178	1.024	1.034	0.320	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	-0.03	6345	79	68.1	15.75	14.62	Right	0	V1	0.820	0.262	1.297	1.024	1.089	0.348	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	0.12	6505	111	68.1	13.50	12.28	Right	0	V1	0.696	0.217	1.324	1.024	0.944	0.294	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	-0.04	6665	143	68.1	14.25	12.56	Right	0	V1	0.725	0.226	1.476	1.024	1.096	0.342	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	-0.01	6985	207	68.1	14.00	13.35	Right	0	V1	0.994	0.302	1.161	1.024	1.182	0.359	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	CW4WJ	97.6	0.08	6985	207	68.1	14.00	13.32	Right	0	V2	0.989	0.299	1.169	1.024	1.184	0.358	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4TGQV	97.6	0.09	6025	15	68.1	16.00	15.29	Left	0	V1	0.016	0.005	1.178	1.024	0.019	0.006	
ANSI/IEEE C55.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 9-8
6GHz WLAN Body SAR Data - Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	0.00	6025	15	68.1	8.25	7.95	Back	0	V1	1.070	0.268	1.072	1.024	1.175	0.294	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	0.01	6345	79	68.1	9.00	8.60	Back	0	V1	1.050	0.270	1.096	1.024	1.178	0.303	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	-0.07	6505	111	68.1	9.50	9.37	Back	0	V1	1.120	0.302	1.030	1.024	1.181	0.319	A3
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	0.01	6505	111	68.1	9.50	9.37	Back	0	V1	1.000	0.294	1.030	1.024	1.150	0.310	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	-0.11	6665	143	68.1	9.75	9.40	Back	0	V1	1.060	0.300	1.084	1.024	1.177	0.333	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	TKQJT	97.6	0.06	6665	143	68.1	9.75	9.60	Back	0	V2	1.090	0.306	1.035	1.024	1.155	0.324	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	0.02	6985	207	68.1	8.75	7.00	Back	0	V1	0.772	0.206	1.496	1.024	1.088	0.316	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	TKQJT	97.6	0.00	6985	207	68.1	8.75	6.79	Back	0	V2	0.678	0.185	1.570	1.024	1.090	0.297	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	-0.11	6665	143	68.1	9.75	9.40	Top	0	V1	0.180	0.055	1.084	1.024	0.200	0.061	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	0.06	6665	143	68.1	9.75	9.40	Bottom	0	V1	0.006	0.002	1.084	1.024	0.007	0.002	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	0.01	6665	143	68.1	9.75	9.40	Right	0	V1	0.000	0.000	1.084	1.024	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4TGQV	97.6	-0.06	6665	143	68.1	9.75	9.40	Left	0	V1	0.375	0.078	1.084	1.024	0.416	0.087	
ANSI/IEEE C55.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement.

Table 9-9
6GHz WLAN Body SAR Data - Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.00	6025	15	68.1	7.00	6.40	Back	0	V2	0.539	0.129	1.148	1.024	0.634	0.152	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.01	6345	79	68.1	7.75	5.92	Back	0	V2	0.740	0.165	1.524	1.024	1.155	0.257	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.01	6505	111	68.1	7.25	7.10	Back	0	V2	1.110	0.248	1.035	1.024	1.176	0.263	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	LWPM	97.6	0.02	6505	111	68.1	7.25	7.17	Back	0	V1	1.110	0.246	1.019	1.024	1.158	0.257	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.02	6665	143	68.1	7.25	6.61	Back	0	V2	0.980	0.218	1.159	1.024	1.163	0.259	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.16	6985	207	68.1	7.75	7.09	Back	0	V2	0.978	0.215	1.164	1.024	1.166	0.256	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.10	6025	15	68.1	7.00	6.40	Top	0	V2	0.081	0.022	1.148	1.024	0.095	0.026	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.09	6985	207	68.1	7.75	7.09	Top	0	V2	0.163	0.042	1.164	1.024	0.194	0.050	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.08	6985	207	68.1	7.75	7.09	Bottom	0	V2	0.000	0.000	1.164	1.024	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.10	6025	15	68.1	7.00	6.40	Right	0	V2	0.644	0.141	1.148	1.024	0.757	0.166	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.18	6345	79	68.1	7.75	5.92	Right	0	V2	0.518	0.111	1.524	1.024	0.808	0.173	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.04	6505	111	68.1	7.25	7.10	Right	0	V2	0.601	0.127	1.035	1.024	0.637	0.135	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.01	6665	143	68.1	7.25	6.61	Right	0	V2	0.462	0.098	1.159	1.024	0.548	0.116	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.08	6985	207	68.1	7.75	7.09	Right	0	V2	0.253	0.055	1.164	1.024	0.302	0.066	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.04	6985	207	68.1	7.75	7.09	Left	0	V2	0.000	0.000	1.164	1.024	0.000	0.000	
ANSI/IEEE C55.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by:
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Technical Manager
		Page 98 of 131	

REV 22.0

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Table 9-10
6GHz WLAN Body Absorbed Power Density Data - Antenna WF5B

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	0.01	6025	15	68.1	16.00	15.29	Back	0	V1	0.601	1.178	1.024	0.725	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	0.03	6025	15	68.1	16.00	15.29	Top	0	V1	0.002	1.178	1.024	0.002	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	-0.15	6025	15	68.1	16.00	15.29	Bottom	0	V1	0.758	1.178	1.024	0.914	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	0.04	6025	15	68.1	16.00	15.29	Right	0	V1	6.030	1.178	1.024	7.274	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	-0.03	6345	79	68.1	15.75	14.62	Right	0	V1	5.970	1.297	1.024	7.929	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	0.12	6505	111	68.1	13.50	12.28	Right	0	V1	4.950	1.324	1.024	6.711	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	-0.04	6665	143	68.1	14.25	12.56	Right	0	V1	5.170	1.476	1.024	7.814	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	-0.01	6985	207	68.1	14.00	13.35	Right	0	V1	6.900	1.161	1.024	8.203	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	CW4WJ	97.6	0.08	6985	207	68.1	14.00	13.32	Right	0	V2	6.840	1.169	1.024	8.188	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4T6QV	97.6	0.09	6025	15	68.1	16.00	15.29	Left	0	V1	0.117	1.178	1.024	0.141	

Table 9-11
6GHz WLAN Body Absorbed Power Density Data - Antenna WF7

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	0.00	6025	15	68.1	8.25	7.95	Back	0	V1	6.330	1.072	1.024	6.949	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	0.01	6345	79	68.1	9.00	8.60	Back	0	V1	6.370	1.096	1.024	7.149	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	-0.07	6505	111	68.1	9.50	9.37	Back	0	V1	7.090	1.030	1.024	7.478	A3
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	0.01	6505	111	68.1	9.50	9.37	Back	0	V1	6.890	1.030	1.024	7.267	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	-0.11	6665	143	68.1	9.75	9.40	Back	0	V1	7.010	1.084	1.024	7.781	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	TKQJT	97.6	0.06	6665	143	68.1	9.75	9.60	Back	0	V2	7.170	1.035	1.024	7.599	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	0.02	6985	207	68.1	8.75	7.00	Back	0	V1	4.860	1.496	1.024	7.445	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	TKQJT	97.6	0.00	6985	207	68.1	8.75	6.79	Back	0	V2	4.330	1.570	1.024	6.961	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	-0.11	6665	143	68.1	9.75	9.40	Top	0	V1	1.270	1.084	1.024	1.410	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	0.06	6665	143	68.1	9.75	9.40	Bottom	0	V1	0.036	1.084	1.024	0.040	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	0.01	6665	143	68.1	9.75	9.40	Right	0	V1	0.007	1.084	1.024	0.008	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7	4T6QV	97.6	-0.06	6665	143	68.1	9.75	9.40	Left	0	V1	1.890	1.084	1.024	2.098	
Health Canada Safety Code 6 Spatial Peak Uncontrolled Exposure/ General Population													Body 20 W/m ² average over 4 cm ²							

Table 9-12
6GHz WLAN Body Absorbed Power Density Data - Antenna WF8

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.00	6025	15	68.1	7.00	6.40	Back	0	V2	3.030	1.148	1.024	3.562	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.01	6345	79	68.1	7.75	5.92	Back	0	V2	3.910	1.524	1.024	6.102	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.01	6505	111	68.1	7.25	7.10	Back	0	V2	5.900	1.035	1.024	6.253	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	LWPXM	97.6	0.02	6505	111	68.1	7.25	7.17	Back	0	V1	5.860	1.019	1.024	6.115	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.02	6665	143	68.1	7.25	6.61	Back	0	V2	5.220	1.159	1.024	6.195	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.16	6985	207	68.1	7.75	7.09	Back	0	V2	5.140	1.164	1.024	6.127	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.09	6985	207	68.1	7.75	7.09	Top	0	V2	0.986	1.164	1.024	1.175	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.08	6985	207	68.1	7.75	7.09	Bottom	0	V2	0.000	1.164	1.024	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.10	6025	15	68.1	7.00	6.40	Right	0	V2	3.350	1.148	1.024	3.938	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.18	6345	79	68.1	7.75	5.92	Right	0	V2	2.650	1.524	1.024	4.136	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.04	6505	111	68.1	7.25	7.10	Right	0	V2	3.020	1.035	1.024	3.201	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	-0.01	6665	143	68.1	7.25	6.61	Right	0	V2	2.310	1.159	1.024	2.742	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.08	6985	207	68.1	7.75	7.09	Right	0	V2	1.300	1.164	1.024	1.550	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF8	CW4WJ	97.6	0.04	6985	207	68.1	7.75	7.09	Left	0	V2	0.000	1.164	1.024	0.000	

FCC ID: BCGA2925	SAR EVALUATION REPORT														Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device														Page 99 of 131

REV 22.0

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Table 9-13
Bluetooth Body SAR Data - Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.04	2402	0	1	12.00	11.69	Back	0	V1	0.911	0.373	1.074	1.006	0.985	0.403	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.00	2441	39	1	12.00	11.72	Back	0	V1	1.030	0.425	1.067	1.006	1.106	0.456	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.00	2480	78	1	12.00	11.81	Back	0	V1	1.090	0.434	1.045	1.006	1.146	0.456	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I377	77.0	0.00	2480	78	1	12.00	11.71	Back	0	V2	1.100	0.444	1.069	1.006	1.199	0.478	A4
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.14	2480	78	1	12.00	11.81	Top	0	V1	0.300	0.095	1.045	1.006	0.316	0.100	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.16	2480	78	1	12.00	11.81	Bottom	0	V1	0.019	0.007	1.045	1.006	0.020	0.007	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.01	2480	78	1	12.00	11.81	Right	0	V1	0.002	0.000	1.045	1.006	0.002	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.04	2402	0	1	12.00	11.69	Left	0	V1	0.803	0.292	1.074	1.006	0.868	0.316	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	0.04	2441	39	1	12.00	11.72	Left	0	V1	0.802	0.290	1.067	1.006	0.861	0.311	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I72J	77.0	-0.01	2480	78	1	12.00	11.81	Left	0	V1	0.875	0.309	1.045	1.006	0.920	0.325	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I377	77.0	0.01	2480	78	1	6.00	5.51	Back	0	V2	0.293	0.118	1.119	1.006	0.330	0.133	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I377	77.0	0.07	2480	78	1	6.00	5.51	Top	0	V2	0.091	0.029	1.119	1.006	0.102	0.033	
Body	2.4 GHz Bluetooth	FHSS	WF7	4I377	77.0	0.03	2480	78	1	6.00	5.51	Left	0	V2	0.213	0.076	1.119	1.006	0.240	0.086	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-14
Bluetooth Body SAR Data - Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	0.00	2402	0	1	14.00	13.38	Back	0	V2	0.663	0.323	1.153	1.006	0.769	0.375	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	0.05	2402	0	1	14.00	13.38	Top	0	V2	0.556	0.174	1.153	1.006	0.645	0.202	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	-0.11	2402	0	1	14.00	13.38	Bottom	0	V2	0.025	0.010	1.153	1.006	0.029	0.012	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	-0.02	2402	0	1	14.00	13.38	Right	0	V2	0.964	0.362	1.153	1.006	1.119	0.420	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	0.06	2441	39	1	14.00	13.36	Right	0	V2	0.922	0.344	1.159	1.006	1.076	0.401	
Body	2.4 GHz Bluetooth	FHSS	WF8	JM9FH	77.0	0.02	2480	78	1	14.00	13.01	Right	0	V1	0.915	0.337	1.256	1.006	1.157	0.426	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	0.00	2480	78	1	14.00	13.06	Right	0	V2	0.947	0.347	1.242	1.006	1.194	0.424	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	0.06	2402	0	1	14.00	13.38	Left	0	V2	0.003	0.002	1.153	1.006	0.003	0.002	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	0.07	2441	39	1	8.00	7.28	Back	0	V2	0.179	0.086	1.180	1.006	0.213	0.102	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	-0.03	2441	39	1	8.00	7.28	Top	0	V2	0.171	0.053	1.180	1.006	0.203	0.063	
Body	2.4 GHz Bluetooth	FHSS	WF8	MI7F3	77.0	-0.09	2441	39	1	8.00	7.28	Right	0	V2	0.248	0.091	1.180	1.006	0.295	0.108	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-15
Bluetooth Body SAR Data - Antenna WF9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.05	2402	0	1	16.00	14.86	Back	0	V2	0.879	0.419	1.300	1.006	1.150	0.548	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.09	2441	39	1	16.00	14.91	Back	0	V2	0.869	0.427	1.285	1.006	1.124	0.552	
Body	2.4 GHz Bluetooth	FHSS	WF9	JM9FH	77.0	0.01	2480	78	1	16.00	15.58	Back	0	V1	0.861	0.426	1.102	1.006	0.955	0.473	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	-0.02	2480	78	1	16.00	14.84	Back	0	V2	0.877	0.431	1.306	1.006	1.153	0.567	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.04	2441	39	1	16.00	14.91	Top	0	V2	0.290	0.128	1.285	1.006	0.375	0.166	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.01	2441	39	1	16.00	14.91	Bottom	0	V2	0.000	0.000	1.285	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.01	2441	39	1	16.00	14.91	Right	0	V2	0.000	0.000	1.285	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.01	2441	39	1	16.00	14.91	Left	0	V2	0.002	0.001	1.285	1.006	0.003	0.001	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	0.01	2402	0	1	10.00	9.61	Back	0	V2	0.233	0.116	1.094	1.006	0.257	0.128	
Body	2.4 GHz Bluetooth	FHSS	WF9	WQG1F	77.0	-0.04	2402	0	1	10.00	9.61	Top	0	V2	0.073	0.032	1.094	1.006	0.080	0.035	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 100 of 131

REV 22.0

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Table 9-16
802.15.4 Body SAR Data - Antenna WF7

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	WF7	41377	0.00	2405	11	13.50	11.65	Back	0	V2	1.260	0.502	1.531	1.157	0.461	
Body	802.15.4	WF7	41377	0.02	2440	18	13.50	11.72	Back	0	V2	1.080	0.429	1.507	0.977	0.388	
Body	802.15.4	WF7	41377	-0.02	2475	25	13.50	12.00	Back	0	V2	1.390	0.543	1.413	1.178	0.460	
Body	802.15.4	WF7	9QXK0	0.03	2475	25	13.50	11.99	Back	0	V1	1.370	0.545	1.416	1.164	0.463	
Body	802.15.4	WF7	41377	0.06	2475	25	13.50	12.00	Top	0	V2	0.377	0.121	1.413	0.320	0.103	
Body	802.15.4	WF7	41377	0.03	2475	25	13.50	12.00	Bottom	0	V2	0.022	0.008	1.413	0.019	0.007	
Body	802.15.4	WF7	41377	0.05	2475	25	13.50	12.00	Right	0	V2	0.003	0.001	1.413	0.003	0.001	
Body	802.15.4	WF7	41377	-0.02	2405	11	13.50	11.65	Left	0	V2	0.941	0.332	1.531	0.864	0.305	
Body	802.15.4	WF7	41377	-0.01	2440	18	13.50	11.72	Left	0	V2	0.923	0.323	1.507	0.835	0.292	
Body	802.15.4	WF7	41377	0.00	2475	25	13.50	12.00	Left	0	V2	0.997	0.347	1.413	0.845	0.294	
Body	802.15.4	WF7	41377	-0.01	2405	11	7.50	6.47	Back	0	V2	0.408	0.155	1.268	0.310	0.118	
Body	802.15.4	WF7	41377	-0.01	2405	11	7.50	6.47	Top	0	V2	0.129	0.039	1.268	0.098	0.030	
Body	802.15.4	WF7	41377	-0.02	2405	11	7.50	6.47	Left	0	V2	0.313	0.104	1.268	0.238	0.079	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%.

Table 9-17
802.15.4 Body SAR Data - Antenna WF8

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	WF8	MJ7F3	0.03	2405	11	14.50	13.45	Back	V2	0.901	0.415	1.274	0.689	0.317	A5
Body	802.15.4	WF8	MJ7F3	0.02	2405	11	14.50	13.45	Top	V2	0.723	0.212	1.274	0.553	0.162	
Body	802.15.4	WF8	MJ7F3	0.00	2405	11	14.50	13.45	Bottom	V2	0.050	0.020	1.274	0.038	0.015	
Body	802.15.4	WF8	C61GJ	0.03	2405	11	14.50	13.44	Right	V1	1.310	0.506	1.276	1.003	0.387	
Body	802.15.4	WF8	MJ7F3	-0.02	2405	11	14.50	13.45	Right	V2	1.420	0.534	1.274	1.085	0.408	
Body	802.15.4	WF8	MJ7F3	-0.03	2405	11	14.50	13.45	Right	V2	1.410	0.531	1.274	1.078	0.406	
Body	802.15.4	WF8	MJ7F3	0.02	2440	18	14.50	13.21	Right	V2	1.130	0.419	1.346	0.913	0.338	
Body	802.15.4	WF8	MJ7F3	-0.01	2475	25	14.50	13.33	Right	V2	1.290	0.469	1.309	1.013	0.368	
Body	802.15.4	WF8	MJ7F3	0.04	2405	11	14.50	13.45	Left	V2	0.004	0.000	1.274	0.003	0.000	
Body	802.15.4	WF8	MJ7F3	0.01	2475	25	8.50	7.49	Back	V2	0.244	0.111	1.262	0.185	0.084	
Body	802.15.4	WF8	MJ7F3	-0.07	2475	25	8.50	7.49	Top	V2	0.170	0.050	1.262	0.129	0.038	
Body	802.15.4	WF8	MJ7F3	0.01	2475	25	8.50	7.49	Right	V2	0.276	0.099	1.262	0.209	0.075	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body						
Spatial Peak										1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population										averaged over 1 gram						

Note: The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%.

Note: Blue entry represents variability measurement.

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 101 of 131

REV 22.0

Table 9-18
802.15.4 Body SAR Data – Antenna WF9

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	WF9	JM9FH	0.05	2405	11	17.50	16.37	Back	0	V1	1.360	0.669	1.297	1.058	0.521	
Body	802.15.4	WF9	WGQ1F	0.09	2405	11	17.50	16.02	Back	0	V2	1.150	0.561	1.406	0.970	0.473	
Body	802.15.4	WF9	JM9FH	0.10	2440	18	17.50	16.13	Back	0	V1	1.260	0.589	1.371	1.036	0.485	
Body	802.15.4	WF9	JM9FH	-0.01	2475	25	17.50	16.19	Back	0	V1	1.280	0.608	1.352	1.038	0.493	
Body	802.15.4	WF9	JM9FH	0.00	2405	11	17.50	16.37	Top	0	V1	0.935	0.442	1.297	0.728	0.344	
Body	802.15.4	WF9	JM9FH	-0.01	2405	11	17.50	16.37	Bottom	0	V1	0.031	0.011	1.297	0.024	0.009	
Body	802.15.4	WF9	JM9FH	0.01	2405	11	17.50	16.37	Right	0	V1	0.000	0.000	1.297	0.000	0.000	
Body	802.15.4	WF9	JM9FH	0.09	2405	11	17.50	16.37	Left	0	V1	0.015	0.004	1.297	0.012	0.003	
Body	802.15.4	WF9	JM9FH	0.01	2475	25	11.50	10.46	Back	0	V1	0.376	0.178	1.271	0.287	0.136	
Body	802.15.4	WF9	JM9FH	-0.02	2475	25	11.50	10.46	Top	0	V1	0.118	0.053	1.271	0.090	0.040	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 102 of 131

REV 22.0

Table 9-19
NB U-NII 1 Body SAR Data - Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF5B	45KKN	77.0	0.03	5245	High	8	13.50	12.65	Back	0	V1	0.027	0.005	1.216	1.006	0.033	0.006	
Body	NB U-NII 1	FHSS	WF5B	45KKN	77.0	0.02	5245	High	8	13.50	12.65	Top	0	V1	0.000	0.000	1.216	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	WF5B	45KKN	77.0	0.07	5245	High	8	13.50	12.65	Bottom	0	V1	0.003	0.000	1.216	1.006	0.004	0.000	
Body	NB U-NII 1	FHSS	WF5B	VMDJ1	77.0	0.04	5245	High	8	13.50	12.70	Right	0	V2	0.271	0.072	1.202	1.006	0.328	0.087	
Body	NB U-NII 1	FHSS	WF5B	45KKN	77.0	-0.13	5245	High	8	13.50	12.65	Right	0	V1	0.277	0.082	1.216	1.006	0.339	0.100	
Body	NB U-NII 1	FHSS	WF5B	45KKN	77.0	0.02	5245	High	8	13.50	12.65	Left	0	V1	0.000	0.000	1.216	1.006	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-20
NB U-NII 1 Body SAR Data - Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.00	5162	Low	1	9.00	8.65	Back	0	V1	0.959	0.229	1.084	1.006	1.046	0.250	
Body	NB U-NII 1	FHSS	WF7	CD2XT	77.0	-0.05	5204	Mid	1	9.00	8.75	Back	0	V2	0.965	0.227	1.059	1.006	1.029	0.242	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	-0.06	5204	Mid	1	9.00	8.75	Back	0	V1	1.070	0.258	1.059	1.006	1.140	0.275	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.08	5245	High	1	9.00	8.55	Back	0	V1	1.020	0.241	1.109	1.006	1.139	0.269	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.04	5204	Mid	1	9.00	8.75	Top	0	V1	0.112	0.029	1.059	1.006	0.119	0.031	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.01	5204	Mid	1	9.00	8.75	Bottom	0	V1	0.000	0.000	1.059	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.05	5204	Mid	1	9.00	8.75	Right	0	V1	0.000	0.000	1.059	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	-0.16	5204	Mid	1	9.00	8.75	Left	0	V1	0.195	0.038	1.059	1.006	0.208	0.041	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.08	5204	Mid	1	3.00	2.05	Back	0	V1	0.184	0.035	1.245	1.006	0.231	0.044	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.05	5204	Mid	1	3.00	2.05	Top	0	V1	0.013	0.000	1.245	1.006	0.016	0.000	
Body	NB U-NII 1	FHSS	WF7	C61GJ	77.0	0.06	5204	Mid	1	3.00	2.05	Left	0	V1	0.025	0.000	1.245	1.006	0.031	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-21
NB U-NII 1 Body SAR Data - Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	-0.03	5204	Mid	1	10.00	9.10	Back	0	V1	0.349	0.097	1.230	1.006	0.432	0.120	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.04	5204	Mid	1	10.00	9.10	Top	0	V1	0.159	0.036	1.230	1.006	0.197	0.045	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.07	5204	Mid	1	10.00	9.10	Bottom	0	V1	0.003	0.000	1.230	1.006	0.004	0.000	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.14	5162	Low	1	10.00	8.98	Right	0	V1	0.815	0.192	1.265	1.006	1.038	0.244	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	-0.07	5204	Mid	1	10.00	9.10	Right	0	V1	0.849	0.200	1.230	1.006	1.051	0.248	
Body	NB U-NII 1	FHSS	WF8	XHUF	77.0	-0.02	5245	High	1	10.00	8.96	Right	0	V2	0.841	0.196	1.271	1.006	1.076	0.251	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.08	5245	High	1	10.00	8.97	Right	0	V1	0.885	0.201	1.268	1.006	1.129	0.257	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.09	5204	Mid	1	10.00	9.10	Left	0	V1	0.000	0.000	1.230	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.02	5162	Low	1	4.00	2.94	Back	0	V1	0.066	0.009	1.276	1.006	0.085	0.012	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	0.05	5162	Low	1	4.00	2.94	Top	0	V1	0.022	0.001	1.276	1.006	0.028	0.001	
Body	NB U-NII 1	FHSS	WF8	2F3VY	77.0	-0.20	5162	Low	1	4.00	2.94	Right	0	V1	0.214	0.044	1.276	1.006	0.275	0.057	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by:
			Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 103 of 131

REV 22.0

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Table 9-22
NB U-NII 3 Body SAR Data - Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	WF5B	34HJ0	77.0	0.01	5733	Low	1	13.50	12.78	Back	0	V2	0.044	0.011	1.180	1.006	0.052	0.013	
Body	NB U-NII 3	FHSS	WF5B	34HJ0	77.0	0.08	5733	Low	1	13.50	12.78	Top	0	V2	0.000	0.000	1.180	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	34HJ0	77.0	0.02	5733	Low	1	13.50	12.78	Bottom	0	V2	0.006	0.000	1.180	1.006	0.007	0.000	
Body	NB U-NII 3	FHSS	WF5B	34HJ0	77.0	0.16	5733	Low	1	13.50	12.78	Right	0	V2	0.340	0.095	1.180	1.006	0.404	0.113	
Body	NB U-NII 3	FHSS	WF5B	45K0N	77.0	-0.13	5733	Low	1	13.50	12.70	Right	0	V1	0.284	0.075	1.202	1.006	0.344	0.091	
Body	NB U-NII 3	FHSS	WF5B	34HJ0	77.0	0.02	5733	Low	1	13.50	12.78	Left	0	V2	0.000	0.000	1.180	1.006	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-23
NB U-NII 3 Body SAR Data - Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	-0.07	5844	High	1	9.50	8.57	Back	0	V1	0.768	0.177	1.239	1.006	0.958	0.221	
Body	NB U-NII 3	FHSS	WF7	4M2G6	77.0	-0.02	5733	Low	1	9.50	8.53	Back	0	V2	0.923	0.210	1.250	1.006	1.161	0.264	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	-0.05	5733	Low	1	9.50	8.47	Back	0	V1	0.928	0.209	1.268	1.006	1.184	0.267	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	-0.03	5789	Mid	1	9.50	8.40	Back	0	V1	0.782	0.169	1.288	1.006	1.014	0.219	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	-0.19	5844	High	1	9.50	8.57	Top	0	V1	0.127	0.031	1.239	1.006	0.158	0.039	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	0.01	5844	High	1	9.50	8.57	Bottom	0	V1	0.000	0.000	1.239	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	0.02	5844	High	1	9.50	8.57	Right	0	V1	0.000	0.000	1.239	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	0.03	5844	High	1	9.50	8.57	Left	0	V1	0.080	0.006	1.239	1.006	0.100	0.007	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	0.05	5789	Mid	1	3.50	2.59	Back	0	V1	0.202	0.035	1.233	1.006	0.251	0.043	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	0.06	5789	Mid	1	3.50	2.59	Top	0	V1	0.025	0.000	1.233	1.006	0.031	0.000	
Body	NB U-NII 3	FHSS	WF7	LWPXM	77.0	0.01	5789	Mid	1	3.50	2.59	Left	0	V1	0.024	0.000	1.233	1.006	0.030	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-24
NB U-NII 3 Body SAR Data - Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.07	5733	Low	1	9.50	9.19	Back	V1	0.580	0.140	1.074	1.006	0.627	0.151	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.11	5733	Low	1	9.50	9.19	Top	V1	0.132	0.026	1.074	1.006	0.143	0.028	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.07	5733	Low	1	9.50	9.19	Bottom	V1	0.000	0.000	1.074	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.17	5733	Low	1	9.50	9.19	Right	V1	1.060	0.233	1.074	1.006	1.146	0.252	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.07	5789	Mid	1	9.50	9.17	Right	V1	1.090	0.237	1.079	1.006	1.184	0.257	A6
Body	NB U-NII 3	FHSS	WF8	XHJF	77.0	-0.02	5789	Mid	1	9.50	8.71	Right	V2	0.879	0.188	1.199	1.006	1.061	0.227	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.02	5844	High	1	9.50	8.11	Right	V1	0.970	0.206	1.089	1.006	1.063	0.228	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	-0.07	5844	High	1	9.50	9.13	Right	V1	1.030	0.222	1.089	1.006	1.129	0.243	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.05	5733	Low	1	9.50	9.19	Left	V1	0.000	0.000	1.074	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.09	5733	Low	1	3.50	2.63	Back	V1	0.149	0.028	1.222	1.006	0.183	0.034	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	0.03	5733	Low	1	3.50	2.63	Top	V1	0.026	0.000	1.222	1.006	0.032	0.000	
Body	NB U-NII 3	FHSS	WF8	2F3VY	77.0	-0.07	5733	Low	1	3.50	2.63	Right	V1	0.238	0.039	1.222	1.006	0.293	0.048	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body									
Spatial Peak											1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population											averaged over 1 gram									

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Note: Blue entry represents variability measurement.

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by:
			Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 104 of 131	

REV 22.0

Table 9-25
wPT SAR Body Data

Exposure	Band / Mode	Service/Modulation	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Plot #
Body	wPT	CW	HHF20	-0.03	13.56	Back	0	0.031	0.007	A7
Body	wPT	CW	HHF20	0.09	13.56	Top	0	0.000	0.000	
Body	wPT	CW	HHF20	0.03	13.56	Bottom	0	0.000	0.000	
Body	wPT	CW	HHF20	-0.11	13.56	Right	0	0.000	0.000	
Body	wPT	CW	HHF20	0.03	13.56	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram				

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 105 of 131

REV 22.0

9.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 11 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.2. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 6.2.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 6.2.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 106 of 131

REV 22.0

Bluetooth Notes/NB-UNII Notes:

1. Bluetooth/NB-UNII SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 7.5 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes:

1. The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%. See Section 7.5 for the time domain plot for the duty factor of the device at the maximum source-based duty cycle of 60% and at the test mode during SAR measurement of 100%.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 107 of 131

REV 22.0

9.3 Power Density Data

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (Win ²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Duty Cycle)	Normal psPD (Win ²)	Scaled Normal psPD (Win ²)	Total psPD (Win ²)	Scaled Total psPD (Win ²)	Plot #
6025	15	802.11ax	OFDM	160	16.00	15.29	0.04	2	WFSB	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	3.030	1.554	1.025	2.390	4.917	3.780	7.093	
6345	79	802.11ax	OFDM	160	15.75	14.62	0.08	2	WFSB	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	-	1.554	1.025	2.380	1.126	3.430	7.086	
6025	15	802.11ax	OFDM	160	16.00	15.29	-0.02	2	WFSB	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	-	1.554	1.025	0.600	0.589	0.638	1.197	
6025	15	802.11ax	OFDM	160	16.00	15.29	-0.04	2	WFSB	V1	Y56TD4T6QV	68.1	Top	97.6	0.25	-	1.554	1.025	0.314	0.921	0.332	0.623	
6025	15	802.11ax	OFDM	160	16.00	15.29	0.00	2	WFSB	V1	Y56TD4T6QV	68.1	Bottom	97.6	0.25	-	1.554	1.025	0.491	0.261	0.643	1.207	
6505	111	802.11ax	OFDM	160	12.50	12.28	0.05	2	WFSB	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	-	1.554	1.025	1.450	6.089	2.640	5.568	
6665	143	802.11ax	OFDM	160	14.25	12.56	-0.03	2	WFSB	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	-	1.554	1.025	2.990	2.441	2.970	6.983	
6985	207	802.11ax	OFDM	160	14.00	13.35	-0.04	2	WFSB	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	-	1.554	1.025	1.320	0.000	2.080	3.847	
6025	15	802.11ax	OFDM	160	16.00	15.29	-0.04	9.95	WFSB	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	2.630	1.554	1.025	1.590	2.983	2.080	3.903	
6025	15	802.11ax	OFDM	160	16.00	15.29	0.03	2	WFSB	V1	Y56TD4T6QV	68.1	Left	97.6	0.25	-	1.554	1.025	0.139	0.261	0.150	0.281	
6025	15	802.11ax	OFDM	160	8.25	7.95	-0.15	2	WF7	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	0.950	1.554	1.025	1.690	1.358	1.750	2.988	
6345	79	802.11ax	OFDM	160	9.00	8.60	0.07	2	WF7	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	-	1.554	1.025	0.778	1.340	1.090	1.903	
6505	111	802.11ax	OFDM	160	9.50	9.37	0.03	2	WF7	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	-	1.554	1.025	0.817	2.176	1.000	1.641	
6665	143	802.11ax	OFDM	160	9.75	9.40	-0.03	2	WF7	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	-	1.554	1.025	1.260	0.915	1.380	2.383	
6665	143	802.11ax	OFDM	160	9.75	9.40	0.03	2	WF7	V1	Y56TD4T6QV	68.1	Top	97.6	0.25	-	1.554	1.025	0.530	0.193	0.850	1.468	
6665	143	802.11ax	OFDM	160	9.75	9.40	0.09	2	WF7	V1	Y56TD4T6QV	68.1	Bottom	97.6	0.25	-	1.554	1.025	0.112	1.632	0.148	0.256	
6665	143	802.11ax	OFDM	160	9.75	9.40	-0.03	2	WF7	V1	Y56TD4T6QV	68.1	Left	97.6	0.25	-	1.554	1.025	0.945	0.214	1.380	2.383	
6665	143	802.11ax	OFDM	160	9.75	9.40	0.06	2	WF7	V1	Y56TD4T6QV	68.1	Right	97.6	0.25	-	1.554	1.025	0.124	0.398	0.155	0.268	
6985	207	802.11ax	OFDM	160	8.75	7.00	0.03	2	WF7	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	-	1.554	1.025	0.167	0.000	0.495	1.180	
6025	15	802.11ax	OFDM	160	8.25	7.95	-0.14	9.95	WF7	V1	Y56TD4T6QV	68.1	Back	97.6	0.25	0.477	1.554	1.025	0.310	3.145	0.458	0.782	
6025	15	802.11ax	OFDM	160	7.00	6.40	-0.02	2	WF8	V2	X9T79CW4WJ	68.1	Back	97.6	0.25	-	1.554	1.025	1.720	1.995	1.950	3.566	
6345	79	802.11ax	OFDM	160	7.75	5.92	0.08	2	WF8	V2	X9T79CW4WJ	68.1	Back	97.6	0.25	-	1.554	1.025	0.822	3.050	1.000	2.428	
6505	111	802.11ax	OFDM	160	7.25	7.10	-0.02	2	WF8	V2	X9T79CW4WJ	68.1	Back	97.6	0.25	-	1.554	1.025	1.850	2.400	2.130	3.512	
6665	143	802.11ax	OFDM	160	7.25	6.61	0.07	2	WF8	V2	X9T79CW4WJ	68.1	Back	97.6	0.25	-	1.554	1.025	1.300	1.630	2.210	4.080	
6985	207	802.11ax	OFDM	160	7.75	7.09	0.17	2	WF8	V2	X9T79CW4WJ	68.1	Back	97.6	0.25	-	1.554	1.025	0.879	3.255	1.190	2.206	
6025	15	802.11ax	OFDM	160	7.00	6.40	-0.07	2	WF8	V2	X9T79CW4WJ	68.1	Right	97.6	0.25	1.530	1.554	1.025	1.780	4.831	3.670	7.077	A8
6345	79	802.11ax	OFDM	160	7.75	5.92	0.11	2	WF8	V2	X9T79CW4WJ	68.1	Right	97.6	0.25	-	1.554	1.025	1.990	1.011	2.210	5.365	
6505	111	802.11ax	OFDM	160	7.25	7.10	-0.21	2	WF8	V2	X9T79CW4WJ	68.1	Right	97.6	0.25	-	1.554	1.025	0.613	1.510	1.340	2.209	
6665	143	802.11ax	OFDM	160	7.25	6.61	0.21	2	WF8	V2	X9T79CW4WJ	68.1	Right	97.6	0.25	-	1.554	1.025	0.818	1.214	1.360	2.511	
6985	207	802.11ax	OFDM	160	7.75	7.09	-0.20	2	WF8	V2	X9T79CW4WJ	68.1	Right	97.6	0.25	-	1.554	1.025	0.655	1.214	0.730	1.353	
6985	207	802.11ax	OFDM	160	7.75	7.09	0.00	2	WF8	V2	X9T79CW4WJ	68.1	Left	97.6	0.25	-	1.554	1.025	0.089	0.165	0.105	0.195	
6985	207	802.11ax	OFDM	160	7.75	7.09	0.10	2	WF8	V2	X9T79CW4WJ	68.1	Top	97.6	0.25	-	1.554	1.025	0.682	1.264	0.869	1.611	
6985	207	802.11ax	OFDM	160	7.75	7.09	0.00	2	WF8	V2	X9T79CW4WJ	68.1	Bottom	97.6	0.25	-	1.554	1.025	0.151	0.280	0.154	0.286	
6025	15	802.11ax	OFDM	160	7.00	6.40	-0.01	9.95	WF8	V2	X9T79CW4WJ	68.1	Right	97.6	0.25	0.589	1.554	1.025	0.401	0.733	0.519	0.949	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m ² averaged over 4 cm ²												

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 108 of 131

REV 22.0

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9.4 Power Density Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01.
8. PTP-PR algorithm was used during psPD measurement and calculations.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 109 of 131

REV 22.0

10 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

10.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

10.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Note:

SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission were treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

In some cases where simultaneous transmission scenarios overlap with the same power level (for example, cellular band + 2.4 GHz WIFI SISO and cellular band + 2.4 GHz WIFI MIMO), the most conservative SAR summation scenario was evaluated.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 110 of 131

REV 22.0

10.3 Body SAR Simultaneous Transmission Analysis

Table 10-1
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	1.184	0.769	0.031	1.215*
	Top	0.316	0.645	0.000	0.961
	Bottom	0.020	0.029	0.000	0.049
	Right	0.002	1.184	0.000	1.186
	Left	0.920	0.003	0.000	0.923

Table 10-2
Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.052	0.627	0.031	0.710
	Top	0.000	0.197	0.000	0.197
	Bottom	0.007	0.004	0.000	0.011
	Right	0.404	1.184	0.000	1.588
	Left	0.000	0.000	0.000	0.000

Table 10-3
Simultaneous Transmission Scenario 2.4 GHz Bluetooth with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF9 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	0.756	0.202	0.031	1.246
	Top	0.080	0.204	0.000	0.000	0.284
	Bottom	0.000	0.006	0.076	0.000	0.082
	Right	0.000	1.184	1.183	0.000	1.184*
	Left	0.003	0.002	0.016	0.000	0.021

Table 10-4
Simultaneous Transmission Scenario 2.4 GHz Bluetooth with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF9 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	0.756	1.183	0.031	1.471*
	Top	0.080	0.204	0.187	0.000	0.471
	Bottom	0.000	0.006	0.000	0.000	0.006
	Right	0.000	1.184	0.000	0.000	1.184
	Left	0.003	0.002	0.176	0.000	0.181

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 111 of 131

REV 22.0

Table 10-5
Simultaneous Transmission Scenario 2.4 GHz Bluetooth with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF9 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	1.176	0.092	0.031	1.556
	Top	0.080	0.194	0.000	0.000	0.274
	Bottom	0.000	0.000	0.128	0.000	0.128
	Right	0.000	0.808	1.184	0.000	1.184*
	Left	0.003	0.000	0.019	0.000	0.022

Table 10-6
Simultaneous Transmission Scenario 2.4 GHz Bluetooth with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF9 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	1.176	1.183	0.031	1.471*
	Top	0.080	0.194	0.200	0.000	0.474
	Bottom	0.000	0.000	0.007	0.000	0.007
	Right	0.000	0.808	0.000	0.000	0.808
	Left	0.003	0.000	0.416	0.000	0.419

Table 10-7
Simultaneous Transmission Scenario 802.15.4 with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.310	0.756	0.202	0.031	1.299
	Top	0.098	0.204	0.000	0.000	0.302
	Bottom	0.019	0.006	0.076	0.000	0.101
	Right	0.003	1.184	1.183	0.000	1.187*
	Left	0.238	0.002	0.016	0.000	0.256

Table 10-8
Simultaneous Transmission Scenario 802.15.4 with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF8 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.185	0.756	0.202	0.031	1.174
	Top	0.129	0.204	0.000	0.000	0.333
	Bottom	0.038	0.006	0.076	0.000	0.120
	Right	0.209	1.184	1.183	0.000	1.393*
	Left	0.003	0.002	0.016	0.000	0.021

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 112 of 131

REV 22.0

Table 10-9
Simultaneous Transmission Scenario 802.15.4 with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF9 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.287	0.756	0.202	0.031	1.276
	Top	0.090	0.204	0.000	0.000	0.294
	Bottom	0.024	0.006	0.076	0.000	0.106
	Right	0.000	1.184	1.183	0.000	1.184*
	Left	0.012	0.002	0.016	0.000	0.030

Table 10-10
Simultaneous Transmission Scenario 802.15.4 with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.310	0.756	1.183	0.031	1.524*
	Top	0.098	0.204	0.187	0.000	0.489
	Bottom	0.019	0.006	0.000	0.000	0.025
	Right	0.003	1.184	0.000	0.000	1.187
	Left	0.238	0.002	0.176	0.000	0.416

Table 10-11
Simultaneous Transmission Scenario 802.15.4 with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF8 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.185	0.756	1.183	0.031	1.214*
	Top	0.129	0.204	0.187	0.000	0.520
	Bottom	0.038	0.006	0.000	0.000	0.044
	Right	0.209	1.184	0.000	0.000	1.393
	Left	0.003	0.002	0.176	0.000	0.181

Table 10-12
Simultaneous Transmission Scenario 802.15.4 with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF9 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.287	0.756	1.183	0.031	1.501*
	Top	0.090	0.204	0.187	0.000	0.481
	Bottom	0.024	0.006	0.000	0.000	0.030
	Right	0.000	1.184	0.000	0.000	1.184
	Left	0.012	0.002	0.176	0.000	0.190

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 113 of 131

REV 22.0

Table 10-13
Simultaneous Transmission Scenario 802.15.4 with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.310	1.176	0.092	0.031	1.517*
	Top	0.098	0.194	0.000	0.000	0.292
	Bottom	0.019	0.000	0.128	0.000	0.147
	Right	0.003	0.808	1.184	0.000	1.187*
	Left	0.238	0.000	0.019	0.000	0.257

Table 10-14
Simultaneous Transmission Scenario 802.15.4 with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF8 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.185	1.176	0.092	0.031	1.484
	Top	0.129	0.194	0.000	0.000	0.323
	Bottom	0.038	0.000	0.128	0.000	0.166
	Right	0.209	0.808	1.184	0.000	1.184*
	Left	0.003	0.000	0.019	0.000	0.022

Table 10-15
Simultaneous Transmission Scenario 802.15.4 with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF9 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3+4
Body SAR	Back	0.287	1.176	0.092	1.586
	Top	0.090	0.194	0.000	0.284
	Bottom	0.024	0.000	0.128	0.152
	Right	0.000	0.808	1.184	1.184*
	Left	0.012	0.000	0.019	0.031

Table 10-16
Simultaneous Transmission Scenario 802.15.4 with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.310	1.176	1.183	0.031	1.524*
	Top	0.098	0.194	0.200	0.000	0.492
	Bottom	0.019	0.000	0.007	0.000	0.026
	Right	0.003	0.808	0.000	0.000	0.811
	Left	0.238	0.000	0.416	0.000	0.654

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 114 of 131

REV 22.0

Table 10-17
Simultaneous Transmission Scenario 802.15.4 with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF8 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.185	1.176	1.183	0.031	1.392*
	Top	0.129	0.194	0.200	0.000	0.523
	Bottom	0.038	0.000	0.007	0.000	0.045
	Right	0.209	0.808	0.000	0.000	1.017
	Left	0.003	0.000	0.416	0.000	0.419

Table 10-18
Simultaneous Transmission Scenario 802.15.4 with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF9 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.287	1.176	1.183	0.031	1.501*
	Top	0.090	0.194	0.200	0.000	0.484
	Bottom	0.024	0.000	0.007	0.000	0.031
	Right	0.000	0.808	0.000	0.000	0.808
	Left	0.012	0.000	0.416	0.000	0.428

Table 10-19
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant WF8 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.330	0.213	0.756	1.183	0.031	1.544*
	Top	0.102	0.203	0.204	0.187	0.000	0.696
	Bottom	0.020	0.029	0.006	0.000	0.000	0.055
	Right	0.002	0.295	1.184	0.000	0.000	1.481
	Left	0.240	0.003	0.002	0.176	0.000	0.421

Table 10-20
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant WF8 with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.330	0.213	0.756	0.202	0.031	1.532
	Top	0.102	0.203	0.204	0.000	0.000	0.509
	Bottom	0.020	0.029	0.006	0.076	0.000	0.131
	Right	0.002	0.295	1.184	1.183	0.000	1.481*
	Left	0.240	0.003	0.002	0.016	0.000	0.261

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 115 of 131

REV 22.0

Table 10-21

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant WF8 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.330	0.213	1.176	1.183	0.031	1.544*
	Top	0.102	0.203	0.194	0.200	0.000	0.699
	Bottom	0.020	0.029	0.000	0.007	0.000	0.056
	Right	0.002	0.295	0.808	0.000	0.000	1.105
	Left	0.240	0.003	0.000	0.416	0.000	0.659

Table 10-22

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant WF8 with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.330	0.213	1.176	0.092	0.031	1.512*
	Top	0.102	0.203	0.194	0.000	0.000	0.499
	Bottom	0.020	0.029	0.000	0.128	0.000	0.177
	Right	0.002	0.295	0.808	1.184	0.000	1.186*
	Left	0.240	0.003	0.000	0.019	0.000	0.262

Table 10-23

Simultaneous Transmission Scenario NB U-NII with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	NB U-NII Ant WF7 with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.251	0.641	1.174	0.031	1.456*
	Top	0.031	0.554	0.406	0.000	0.991
	Bottom	0.000	0.045	0.030	0.000	0.075
	Right	0.000	1.184	0.000	0.000	1.184
	Left	0.031	0.000	0.931	0.000	0.962

Table 10-24

Simultaneous Transmission Scenario NB-UNII with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	NB U-NII Ant WF7 with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF9 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.251	0.641	1.164	0.031	1.446*
	Top	0.031	0.554	0.338	0.000	0.923
	Bottom	0.000	0.045	0.014	0.000	0.059
	Right	0.000	1.184	0.000	0.000	1.184
	Left	0.031	0.000	0.003	0.000	0.034

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 116 of 131

REV 22.0

Table 10-25
Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant WF8 with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.052	0.183	0.641	1.174	0.031	1.257*
	Top	0.000	0.032	0.554	0.406	0.000	0.992
	Bottom	0.007	0.004	0.045	0.030	0.000	0.086
	Right	0.404	0.293	1.184	0.000	0.000	1.477*
	Left	0.000	0.000	0.000	0.931	0.000	0.931

Table 10-26
Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant WF8 with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF9 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.052	0.183	0.641	1.164	0.031	1.247*
	Top	0.000	0.032	0.554	0.338	0.000	0.924
	Bottom	0.007	0.004	0.045	0.014	0.000	0.070
	Right	0.404	0.293	1.184	0.000	0.000	1.477*
	Left	0.000	0.000	0.000	0.003	0.000	0.003

Table 10-27
Simultaneous Transmission Scenario 2.4 GHz Bluetooth with 2.4 GHz WIFI and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	1.184	0.641	0.031	1.215*
	Top	0.316	0.554	0.000	0.870
	Bottom	0.020	0.045	0.000	0.065
	Right	0.002	1.184	0.000	1.186
	Left	0.920	0.000	0.000	0.920

Table 10-28
Simultaneous Transmission Scenario 802.15.4 with 2.4 GHz WIFI and wPT

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	1.178	0.641	0.031	1.209*
	Top	0.320	0.554	0.000	0.874
	Bottom	0.019	0.045	0.000	0.064
	Right	0.003	1.184	0.000	1.187
	Left	0.864	0.000	0.000	0.864

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 117 of 131

REV 22.0

10.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

10.4.1 Back Side Spatial Separation Analysis

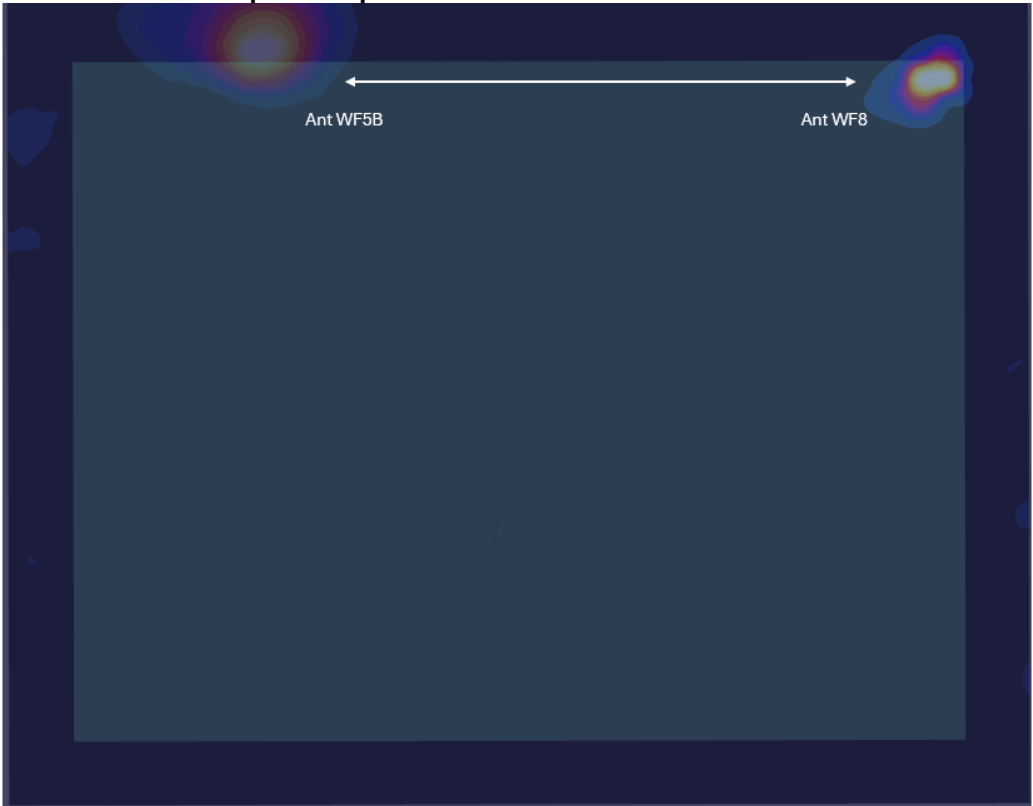
Figure 10-29
Back Side Spatial Separation for Antenna WF5B and Antenna WF7



FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 118 of 131

REV 22.0

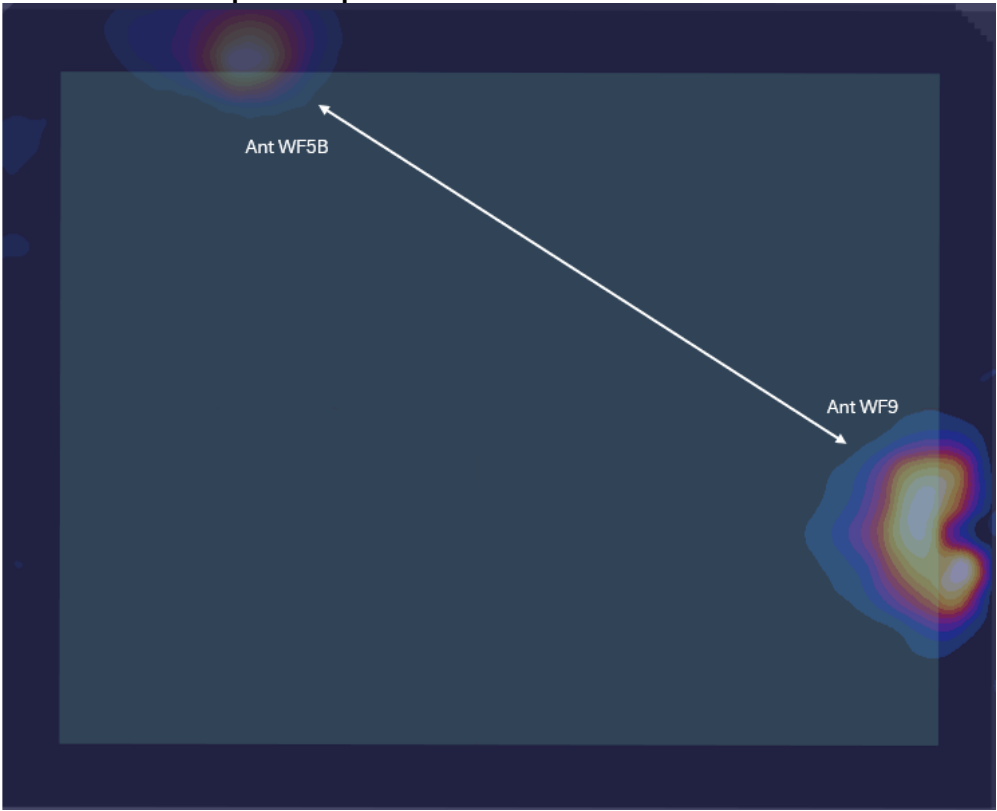
Figure 10-30
Back Side Spatial Separation for Antenna WF5B and Antenna WF8



FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 119 of 131

REV 22.0

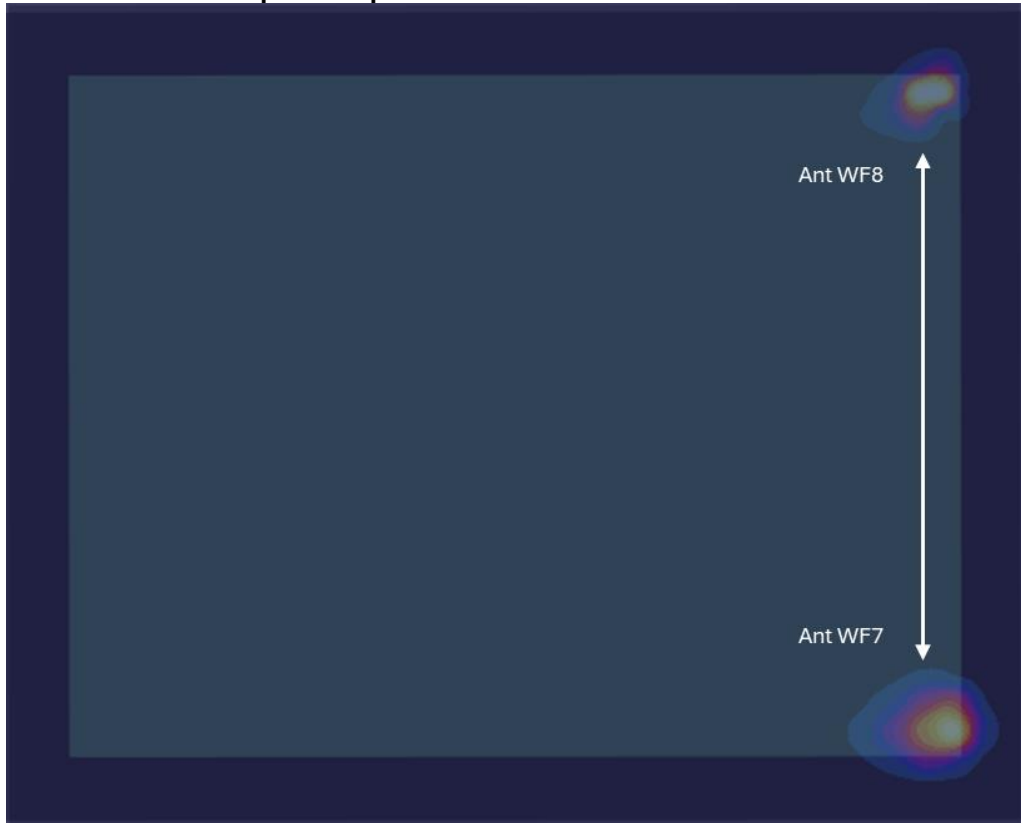
Figure 10-31
Back Side Spatial Separation for Antenna WF5B and Antenna WF9



FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 120 of 131

REV 22.0

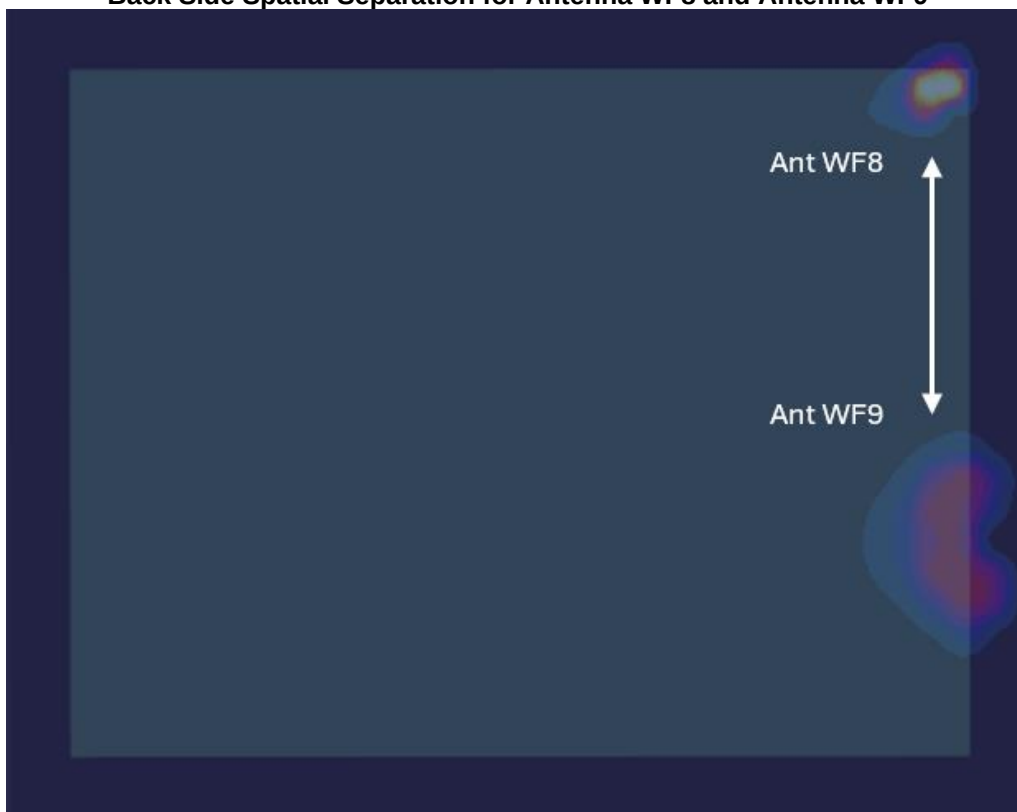
Figure 10-32
Back Side Spatial Separation for Antenna WF7 and Antenna WF8



FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 121 of 131

REV 22.0

Figure 10-33
Back Side Spatial Separation for Antenna WF8 and Antenna WF9



FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 122 of 131

REV 22.0

10.4.2 Right Edge Spatial Separation Analysis

Figure 10-34

Right Edge Spatial Separation for Antenna WF5B and Antenna WF8



10.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 123 of 131

REV 22.0

11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 11-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2405	11	802.15.4	CW	Ant WF8	0.25	Right	0 mm	1.420	1.410	1.01	N/A	N/A	N/A	N/A
5250	5210	42	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF8	23.9	Right	0 mm	1.110	1.110	1.00	N/A	N/A	N/A	N/A
5600	5610	122	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF7	23.9	Back	0 mm	0.955	0.948	1.01	N/A	N/A	N/A	N/A
5750	5775	155	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF8	23.9	Right	0 mm	1.110	1.090	1.02	N/A	N/A	N/A	N/A
5850	5844	Mid	NB U-NII 3	FHSS	Ant WF8	1.0	Right	0 mm	1.030	0.970	1.06	N/A	N/A	N/A	N/A
6500	6505	111	6 GHz WIFV IEEE 802.11ax	OFDM	Ant WF7	68.1	Back	0 mm	1.120	1.090	1.03	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram						

11.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g and < 3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 124 of 131

REV 22.0

12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	10/12/2023	Annual	10/12/2024	MY47400015
Agilent	N5182A	MXG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/2/2024	MY40003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	7/21/2023	Annual	7/21/2024	US39170118
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
Anritsu	MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	12/15/2023	Annual	12/15/2024	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	6262150000
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6201381794
Anritsu	MA24106A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827530
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230703247
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230702935
Control Company	4052	Long Stem Thermometer	2/17/2023	Biennial	2/17/2025	230111049
Control Company	4040	Therm./Clock/Humidity Monitor	5/11/2022	Biennial	5/11/2024	122154980
Mitutoyo	500-196-30	CD-6°ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
Agilent	N9020A	MXA Signal Analyzer	4/26/2022	Biennial	4/26/2024	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/5/2023	Annual	7/5/2024	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	1262
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1243
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1559
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
SPEAG	CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Triennial	11/9/2024	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	750
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/22/2022	Biennial	3/22/2024	1123
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/11/2023	Annual	10/11/2024	1019
SPEAG	5G Verification Source 10GHz	10 GHz System Verification	3/6/2023	Annual	3/6/2024	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	534
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	793
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	7420
SPEAG	EX3DV4	SAR Probe	5/8/2023	Annual	5/8/2024	7416
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7360
SPEAG	EUMmWV3	EUMmWV3 Probe	10/9/2023	Annual	10/9/2024	9407

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 125 of 131

REV 22.0

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13 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)				RSS			12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)				k=2			24.4	24.0	

The above measurement uncertainties are according to IEEE Std. 1528-2013

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 126 of 131

REV 22.0

Applicable for SAR measurements > 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

The above measurement uncertainties are according to IEEE Std. 1528-2013

FCC ID: BCGA2925	SAR EVALUATION REPORT		Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device		Page 127 of 131

REV 22.0

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Applicable for Power Density measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 128 of 131

REV 22.0

14 CONCLUSION

14.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g., ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g., age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 129 of 131

REV 22.0

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FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 130 of 131

REV 22.0

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FCC ID: BCGA2925	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1C2311270069-01.BCG-R1	DUT Type: Tablet Device	Page 131 of 131

REV 22.0