



Element Materials Technology

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RF EXPOSURE TEST REPORT

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

Date of Testing:
10/08/2025 - 12/01/2025
Test Report Issue Date:
01/26/2025
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2509100081-01.BCG-R3

FCC ID: BCGA3461

APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Models: A3461

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
DTBS	2.4 GHz WFI	2412 - 2472 MHz	0.58
NR	4 GHz WFI	U-NR-1: 5880 - 5945 MHz	1.13
		U-NR-2A: 5980 - 6045 MHz	
		U-NR-2C: 6080 - 6145 MHz	
		U-NR-3: 6180 - 6245 MHz	
		U-NR-4: 6280 - 6345 MHz	
ICDNR	4 GHz WFI	U-NR-5: 6380 - 6445 MHz	0.56
		U-NR-6: 6480 - 6545 MHz	
		U-NR-7: 6580 - 6645 MHz	
		U-NR-8: 6680 - 6745 MHz	
		U-NR-9: 6780 - 6845 MHz	
		U-NR-10: 6880 - 6945 MHz	
		U-NR-11: 6980 - 7045 MHz	
		U-NR-12: 7080 - 7145 MHz	
		U-NR-13: 7180 - 7245 MHz	
		U-NR-14: 7280 - 7345 MHz	
Simultaneous SAR per KOB (0.075) 1.16 MHz			
DTBS	802.14	2475 - 2475 MHz	0.45
DTBS	802.14	2475 - 2475 MHz	0.45
NR	NR UNL N3	U-NR-15: 7380 - 7445 MHz	0.58
		U-NR-16: 7480 - 7545 MHz	
		U-NR-17: 7580 - 7645 MHz	
		U-NR-18: 7680 - 7745 MHz	
		U-NR-19: 7780 - 7845 MHz	
NR	NR UNL N3	U-NR-20: 7880 - 7945 MHz	0.58
		U-NR-21: 7980 - 8045 MHz	
		U-NR-22: 8080 - 8145 MHz	
		U-NR-23: 8180 - 8245 MHz	
		U-NR-24: 8280 - 8345 MHz	
NR	NR UNL N3	U-NR-25: 8380 - 8445 MHz	0.58
		U-NR-26: 8480 - 8545 MHz	
		U-NR-27: 8580 - 8645 MHz	
		U-NR-28: 8680 - 8745 MHz	
		U-NR-29: 8780 - 8845 MHz	
NR	NR UNL N3	U-NR-30: 8880 - 8945 MHz	0.58
		U-NR-31: 8980 - 9045 MHz	
		U-NR-32: 9080 - 9145 MHz	
		U-NR-33: 9180 - 9245 MHz	
		U-NR-34: 9280 - 9345 MHz	
NR	NR UNL N3	U-NR-35: 9380 - 9445 MHz	0.58
		U-NR-36: 9480 - 9545 MHz	
		U-NR-37: 9580 - 9645 MHz	
		U-NR-38: 9680 - 9745 MHz	
		U-NR-39: 9780 - 9845 MHz	
NR	NR UNL N3	U-NR-40: 9880 - 9945 MHz	0.58
		U-NR-41: 9980 - 10045 MHz	
		U-NR-42: 10080 - 10145 MHz	
		U-NR-43: 10180 - 10245 MHz	
		U-NR-44: 10280 - 10345 MHz	
NR	NR UNL N3	U-NR-45: 10380 - 10445 MHz	0.58
		U-NR-46: 10480 - 10545 MHz	
		U-NR-47: 10580 - 10645 MHz	
		U-NR-48: 10680 - 10745 MHz	
		U-NR-49: 10780 - 10845 MHz	
NR	NR UNL N3	U-NR-50: 10880 - 10945 MHz	0.58
		U-NR-51: 10980 - 11045 MHz	
		U-NR-52: 11080 - 11145 MHz	
		U-NR-53: 11180 - 11245 MHz	
		U-NR-54: 11280 - 11345 MHz	
NR	NR UNL N3	U-NR-55: 11380 - 11445 MHz	0.58
		U-NR-56: 11480 - 11545 MHz	
		U-NR-57: 11580 - 11645 MHz	
		U-NR-58: 11680 - 11745 MHz	
		U-NR-59: 11780 - 11845 MHz	
NR	NR UNL N3	U-NR-60: 11880 - 11945 MHz	0.58
		U-NR-61: 11980 - 12045 MHz	
		U-NR-62: 12080 - 12145 MHz	
		U-NR-63: 12180 - 12245 MHz	
		U-NR-64: 12280 - 12345 MHz	
NR	NR UNL N3	U-NR-65: 12380 - 12445 MHz	0.58
		U-NR-66: 12480 - 12545 MHz	
		U-NR-67: 12580 - 12645 MHz	
		U-NR-68: 12680 - 12745 MHz	
		U-NR-69: 12780 - 12845 MHz	
NR	NR UNL N3	U-NR-70: 12880 - 12945 MHz	0.58
		U-NR-71: 12980 - 13045 MHz	
		U-NR-72: 13080 - 13145 MHz	
		U-NR-73: 13180 - 13245 MHz	
		U-NR-74: 13280 - 13345 MHz	
NR	NR UNL N3	U-NR-75: 13380 - 13445 MHz	0.58
		U-NR-76: 13480 - 13545 MHz	
		U-NR-77: 13580 - 13645 MHz	
		U-NR-78: 13680 - 13745 MHz	
		U-NR-79: 13780 - 13845 MHz	
NR	NR UNL N3	U-NR-80: 13880 - 13945 MHz	0.58
		U-NR-81: 13980 - 14045 MHz	
		U-NR-82: 14080 - 14145 MHz	
		U-NR-83: 14180 - 14245 MHz	
		U-NR-84: 14280 - 14345 MHz	
NR	NR UNL N3	U-NR-85: 14380 - 14445 MHz	0.58
		U-NR-86: 14480 - 14545 MHz	
		U-NR-87: 14580 - 14645 MHz	
		U-NR-88: 14680 - 14745 MHz	
		U-NR-89: 14780 - 14845 MHz	
NR	NR UNL N3	U-NR-90: 14880 - 14945 MHz	0.58
		U-NR-91: 14980 - 15045 MHz	
		U-NR-92: 15080 - 15145 MHz	
		U-NR-93: 15180 - 15245 MHz	
		U-NR-94: 15280 - 15345 MHz	
NR	NR UNL N3	U-NR-95: 15380 - 15445 MHz	0.58
		U-NR-96: 15480 - 15545 MHz	
		U-NR-97: 15580 - 15645 MHz	
		U-NR-98: 15680 - 15745 MHz	
		U-NR-99: 15780 - 15845 MHz	
NR	NR UNL N3	U-NR-100: 15880 - 15945 MHz	0.58
		U-NR-101: 15980 - 16045 MHz	
		U-NR-102: 16080 - 16145 MHz	
		U-NR-103: 16180 - 16245 MHz	
		U-NR-104: 16280 - 16345 MHz	
NR	NR UNL N3	U-NR-105: 16380 - 16445 MHz	0.58
		U-NR-106: 16480 - 16545 MHz	
		U-NR-107: 16580 - 16645 MHz	
		U-NR-108: 16680 - 16745 MHz	
		U-NR-109: 16780 - 16845 MHz	
NR	NR UNL N3	U-NR-110: 16880 - 16945 MHz	0.58
		U-NR-111: 16980 - 17045 MHz	
		U-NR-112: 17080 - 17145 MHz	
		U-NR-113: 17180 - 17245 MHz	
		U-NR-114: 17280 - 17345 MHz	
NR	NR UNL N3	U-NR-115: 17380 - 17445 MHz	0.58
		U-NR-116: 17480 - 17545 MHz	
		U-NR-117: 17580 - 17645 MHz	
		U-NR-118: 17680 - 17745 MHz	
		U-NR-119: 17780 - 17845 MHz	
NR	NR UNL N3	U-NR-120: 17880 - 17945 MHz	0.58
		U-NR-121: 17980 - 18045 MHz	
		U-NR-122: 18080 - 18145 MHz	
		U-NR-123: 18180 - 18245 MHz	
		U-NR-124: 18280 - 18345 MHz	
NR	NR UNL N3	U-NR-125: 18380 - 18445 MHz	0.58
		U-NR-126: 18480 - 18545 MHz	
		U-NR-127: 18580 - 18645 MHz	
		U-NR-128: 18680 - 18745 MHz	
		U-NR-129: 18780 - 18845 MHz	
NR	NR UNL N3	U-NR-130: 18880 - 18945 MHz	0.58
		U-NR-131: 18980 - 19045 MHz	
		U-NR-132: 19080 - 19145 MHz	
		U-NR-133: 19180 - 19245 MHz	
		U-NR-134: 19280 - 19345 MHz	
NR	NR UNL N3	U-NR-135: 19380 - 19445 MHz	0.58
		U-NR-136: 19480 - 19545 MHz	
		U-NR-137: 19580 - 19645 MHz	
		U-NR-138: 19680 - 19745 MHz	
		U-NR-139: 19780 - 19845 MHz	
NR	NR UNL N3	U-NR-140: 19880 - 19945 MHz	0.58
		U-NR-141: 19980 - 20045 MHz	
		U-NR-142: 20080 - 20145 MHz	
		U-NR-143: 20180 - 20245 MHz	
		U-NR-144: 20280 - 20345 MHz	
NR	NR UNL N3	U-NR-145: 20380 - 20445 MHz	0.58
		U-NR-146: 20480 - 20545 MHz	
		U-NR-147: 20580 - 20645 MHz	
		U-NR-148: 20680 - 20745 MHz	
		U-NR-149: 20780 - 20845 MHz	
NR	NR UNL N3	U-NR-150: 20880 - 20945 MHz	0.58
		U-NR-151: 20980 - 21045 MHz	
		U-NR-152: 21080 - 21145 MHz	
		U-NR-153: 21180 - 21245 MHz	
		U-NR-154: 21280 - 21345 MHz	
NR	NR UNL N3	U-NR-155: 21380 - 21445 MHz	0.58
		U-NR-156: 21480 - 21545 MHz	
		U-NR-157: 21580 - 21645 MHz	
		U-NR-158: 21680 - 21745 MHz	
		U-NR-159: 21780 - 21845 MHz	
NR	NR UNL N3	U-NR-160: 21880 - 21945 MHz	0.58
		U-NR-161: 21980 - 22045 MHz	
		U-NR-162: 22080 - 22145 MHz	
		U-NR-163: 22180 - 22245 MHz	
		U-NR-164: 22280 - 22345 MHz	
NR	NR UNL N3	U-NR-165: 22380 - 22445 MHz	0.58
		U-NR-166: 22480 - 22545 MHz	
		U-NR-167: 22580 - 22645 MHz	
		U-NR-168: 22680 - 22745 MHz	
		U-NR-169: 22780 - 22845 MHz	
NR	NR UNL N3	U-NR-170: 22880 - 22945 MHz	0.58
		U-NR-171: 22980 - 23045 MHz	
		U-NR-172: 23080 - 23145 MHz	
		U-NR-173: 23180 - 23245 MHz	
		U-NR-174: 23280 - 23345 MHz	
NR	NR UNL N3	U-NR-175: 23380 - 23445 MHz	0.58
		U-NR-176: 23480 - 23545 MHz	
		U-NR-177: 23580 - 23645 MHz	
		U-NR-178: 23680 - 23745 MHz	
		U-NR-179: 23780 - 23845 MHz	
NR	NR UNL N3	U-NR-180: 23880 - 23945 MHz	0.58
		U-NR-181: 23980 - 24045 MHz	
		U-NR-182: 24080 - 24145 MHz	
		U-NR-183: 24180 - 24245 MHz	
		U-NR-184: 24280 - 24345 MHz	
NR	NR UNL N3	U-NR-185: 24380 - 24445 MHz	0.58
		U-NR-186: 24480 - 24545 MHz	
		U-NR-187: 24580 - 24645 MHz	
		U-NR-188: 24680 - 24745 MHz	
		U-NR-189: 24780 - 24845 MHz	
NR	NR UNL N3	U-NR-190: 24880 - 24945 MHz	0.58
		U-NR-191: 24980 - 25045 MHz	
		U-NR-192: 25080 - 25145 MHz	
		U-NR-193: 25180 - 25245 MHz	
		U-NR-194: 25280 - 25345 MHz	
NR	NR UNL N3	U-NR-195: 25380 - 25445 MHz	0.58
		U-NR-196: 25480 - 25545 MHz	
		U-NR-197: 25580 - 25645 MHz	
		U-NR-198: 25680 - 25745 MHz	
		U-NR-199: 25780 - 25845 MHz	
NR	NR UNL N3	U-NR-200: 25880 - 25945 MHz	0.58
		U-NR-201: 25980 - 26045 MHz	
		U-NR-202: 26080 - 26145 MHz	
		U-NR-203: 26180 - 26245 MHz	
		U-NR-204: 26280 - 26345 MHz	
NR	NR UNL N3	U-NR-205: 26380 - 26445 MHz	0.58
		U-NR-206: 26480 - 26545 MHz	
		U-NR-207: 26580 - 26645 MHz	
		U-NR-208: 26680 - 26745 MHz	
		U-NR-209: 26780 - 26845 MHz	
NR	NR UNL N3	U-NR-210: 26880 - 26945 MHz	0.58
		U-NR-211: 26980 - 27045 MHz	
		U-NR-212: 27080 - 27145 MHz	
		U-NR-213: 27180 - 27245 MHz	
		U-NR-214: 27280 - 27345 MHz	
NR	NR UNL N3	U-NR-215: 27380 - 27445 MHz	0.58
		U-NR-216: 27480 - 27545 MHz	
		U-NR-217: 27580 - 27645 MHz	
		U-NR-218: 27680 - 27745 MHz	
		U-NR-219: 27780 - 27845 MHz	
NR	NR UNL N3	U-NR-220: 27880 - 27945 MHz	0.58
		U-NR-221: 27980 - 28045 MHz	
		U-NR-222: 28080 - 28145 MHz	
		U-NR-223: 28180 - 28245 MHz	
		U-NR-224: 28280 - 28345 MHz	
NR	NR UNL N3	U-NR-225: 28380 - 28445 MHz	0.58
		U-NR-226: 28480 - 28545 MHz	
		U-NR-227: 28580 - 28645 MHz	
		U-NR-228: 28680 - 28745 MHz	
		U-NR-229: 28780 - 28845 MHz	
NR	NR UNL N3	U-NR-230: 28880 - 28945 MHz	0.58
		U-NR-231: 28980 - 29045 MHz	
		U-NR-232: 29080 - 29145 MHz	
		U-NR-233: 29180 - 29245 MHz	
		U-NR-234: 29280 - 29345 MHz	
NR	NR UNL N3	U-NR-235: 29380 - 29445 MHz	0.58
		U-NR-236: 29480 - 29545 MHz	
		U-NR-237: 29580 - 29645 MHz	
		U-NR-238: 29680 - 29745 MHz	
		U-NR-239: 29780 - 29845 MHz	
NR	NR UNL N3	U-NR-240: 29880 - 29945 MHz	0.58
		U-NR-241: 29980 - 30045 MHz	
		U-NR-242: 30080 - 30145 MHz	
		U-NR-243: 30180 - 30245 MHz	
		U-NR-244: 30280 - 30345 MHz	
NR	NR UNL N3	U-NR-245: 30380 - 30445 MHz	0.58
		U-NR-246: 30480 - 30545 MHz	
		U-NR-247: 30580 - 30645 MHz	
		U-NR-248: 30680 - 30745 MHz	
		U-NR-249: 30780 - 30845 MHz	
NR	NR UNL N3	U-NR-250: 30880 - 30945 MHz	0.58
		U-NR-251: 30980 - 31045 MHz	
		U-NR-252: 31080 - 31145 MHz	
		U-NR-253: 31180 - 31245 MHz	
		U-NR-254: 31280 - 31345 MHz	
NR	NR UNL N3	U-NR-255: 31380 - 31445 MHz	0.58
		U-NR-256: 31480 - 31545 MHz	
		U-NR-257: 31580 - 31645 MHz	
		U-NR-258: 31680 - 31745 MHz	
		U-NR-259: 31780 - 31845 MHz	
NR	NR UNL N3	U-NR-260: 31880 - 31945 MHz	0.58
		U-NR-261: 31980 - 32045 MHz	
		U-NR-262: 32080 - 32145 MHz	
		U-NR-263: 32180 - 32245 MHz	
		U-NR-264: 32280 - 32345 MHz	
NR	NR UNL N3	U-NR-265: 32380 - 32445 MHz	0.58
		U-NR-266: 32480 - 32545 MHz	
		U-NR-267: 32580 - 32645 MHz	
		U-NR-268: 32680 - 32745 MHz	
		U-NR-269: 32780 - 32845 MHz	
NR	NR UNL N3	U-NR-270: 32880 - 32945 MHz	0.58
		U-NR-271: 32980 - 33045 MHz	
		U-NR-272: 33080 - 33145 MHz	
		U-NR-273: 33180 - 33245 MHz	
		U-NR-274: 33280 - 33345 MHz	
NR	NR UNL N3	U-NR-275: 33380 - 33445 MHz	0.58
		U-NR-276: 33480 - 33545 MHz	
		U-NR-277: 33580 - 33645 MHz	
		U-NR-278: 33680 - 33745 MHz	
		U-NR-279: 33780 - 33845 MHz	
NR	NR UNL N3	U-NR-280: 33880 - 33945 MHz	0.58
		U-NR-281: 33980 - 34045 MHz	
		U-NR-282: 34080 - 34145 MHz	
		U-NR-283: 34180 - 34245 MHz	
		U-NR-284: 34280 - 34345 MHz	
NR	NR UNL N3	U-NR-285: 34380 - 34445 MHz	0.58
		U-NR-286: 34480 - 34545 MHz	
		U-NR-287: 34580 - 34645 MHz	
		U-NR-288: 34680 - 34745 MHz	
		U-NR-289: 34780 - 34845 MHz	
NR	NR UNL N3	U-NR-290: 34880 - 34945 MHz	0.58
		U-NR-291: 34980 - 35045 MHz	
		U-NR-292: 35080 - 35145 MHz	
		U-NR-293: 35180 - 35245 MHz	
		U-NR-294: 35280 - 35345 MHz	
NR	NR UNL N3	U-NR-295: 35380 - 35445 MHz	0.58
		U-NR-296: 35480 - 35545 MHz	
		U-NR-297: 35580 - 35645 MHz	
		U-NR-298: 35680 - 35745 MHz	
		U-NR-299: 35780 - 35845 MHz	
NR	NR UNL N3	U-NR-300: 35880 - 35945 MHz	0.58
		U-NR-301: 35980 - 36045 MHz	
		U-NR-302: 36080 - 36145 MHz	
		U-NR-303: 36180 - 36245 MHz	
		U-NR-304: 36280 - 36345 MHz	
NR	NR UNL N3	U-NR-305: 36380 - 36445 MHz	0.58
		U-NR-306: 36480 - 36545 MHz	
		U-NR-307: 36580 - 36645 MHz	
		U-NR-308: 36680 - 36745 MHz	
		U-NR-309: 36780 - 36845 MHz	
NR	NR UNL N3	U-NR-310: 36880 - 36945 MHz	0.58
		U-NR-311: 36980 - 37045 MHz	
		U-NR-312: 37080 - 37145 MHz	
		U-NR-313: 37180 - 37245 MHz	
		U-NR-314: 37280 - 37345 MHz	
NR	NR UNL N3	U-NR-315: 37380 - 37445 MHz	0.58
		U-NR-316: 37480 - 37545 MHz	
		U-NR-317: 37580 - 37645 MHz	
		U-NR-318: 37680 - 37745 MHz	
		U-NR-319: 37780 - 37845 MHz	
NR	NR UNL N3	U-NR-320: 37880 - 37945 MHz	0.58
		U-NR-321: 37980 - 38045 MHz	
		U-NR-322: 38080 - 38145 MHz	
		U-NR-323: 38180 - 38245 MHz	
		U-NR-324: 38280 - 38345 MHz	
NR	NR UNL N3	U-NR-325: 38380 - 38445 MHz	0.58
		U-NR-326: 38480 - 38545 MHz	
		U-N	

Revision Summary

Revision	Description	Issue Date	Revised By
-	Initial Release	12/23/2025	WKR0000006287
R1	Addressed Applicant's Comments	12/30/2025	WKR0000006287
R2	Addressed Applicant's Comments	01/06/2026	WKR0000006287
R3	Addressed Applicant's Comments	01/12/2025	WKR0000006287

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4 GHz WLAN	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
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
NB UNII-5	Data	6108 - 6420 MHz
WPT	N/A	13.56 MHz

1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device uses a time-averaged SAR (TAS) technology for the connectivity transmitters (i.e. WLAN, BT, 802.15.4, NB UNII). A central manager, referred to as the RF Exposure manager, is responsible for maintaining the rolling time-averaged RF exposure over the applicable regulatory compliance window. This manager allocates a total RF exposure budget and specifies the RF exposure compliance limit to the connectivity radios. The radio controllers manage their transmissions to always maintain their consumption below the regulatory RF exposure limit. They report their consumed RF exposure back to the RF exposure manager. The RF exposure manager uses this feedback to allocate updated budget information throughout the regulatory averaging window. 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 Connectivity Time-Averaged SAR Validation Report.

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.

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1.3.1 Maximum WLAN Time-Averaged Output Power

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7b							
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	21.70	20.70	15.50	14.50	15.50	14.50	15.00	14.00
	2	22.00	21.00	19.50	18.50	19.50	18.50	18.70	17.70
	3	22.50	21.50	20.20	19.20	20.20	19.20	20.00	19.00
	4	22.50	21.50	21.00	20.00	21.00	20.00	20.50	19.50
	5	22.50	21.50	22.00	21.00	22.00	21.00	22.00	21.00
	6	22.50	21.50	22.50	21.50	22.50	21.50	22.00	21.00
	7	22.50	21.50	22.00	21.00	22.00	21.00	21.50	20.50
	8	22.50	21.50	21.00	20.00	21.00	20.00	20.70	19.70
	9	22.50	21.50	20.00	19.00	20.00	19.00	19.50	18.50
	10	22.50	21.50	19.20	18.20	19.20	18.20	18.50	17.50
	11	22.20	21.20	17.20	16.20	17.20	16.20	17.00	16.00
	12	19.20	18.20	15.50	14.50	15.50	14.50	15.20	14.20
	13	17.50	16.50	9.00	8.00	9.00	8.00	7.20	6.20

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7b							
		MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	15.00	14.00	14.20	13.20	15.00	14.00	14.20	13.20
	2	18.70	17.70	17.70	16.70	18.70	17.70	17.70	16.70
	3	20.00	19.00	18.70	17.70	20.00	19.00	18.70	17.70
	4	20.20	19.20	19.50	18.50	20.20	19.20	19.50	18.50
	5	21.50	20.50	21.00	20.00	21.50	20.50	21.00	20.00
	6	22.00	21.00	22.00	21.00	22.00	21.00	22.00	21.00
	7	21.70	20.70	21.50	20.50	21.70	20.70	21.50	20.50
	8	21.00	20.00	20.00	19.00	21.00	20.00	20.00	19.00
	9	20.00	19.00	19.20	18.20	20.00	19.00	19.20	18.20
	10	18.70	17.70	18.20	17.20	18.70	17.70	18.20	17.20
	11	17.20	16.20	16.50	15.50	17.20	16.20	16.50	15.50
	12	15.00	14.00	14.50	13.50	15.00	14.00	14.50	13.50
	13	9.00	8.00	7.00	6.00	9.00	8.00	7.00	6.00

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF2b							
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	22.00	21.00	15.50	14.50	15.50	14.50	15.50	14.50
	2	22.00	21.00	19.00	18.00	19.00	18.00	18.50	17.50
	3	22.00	21.00	20.50	19.50	20.50	19.50	20.00	19.00
	4	22.00	21.00	21.00	20.00	21.00	20.00	20.50	19.50
	5	22.00	21.00	22.00	21.00	22.00	21.00	21.70	20.70
	6	22.00	21.00	22.00	21.00	22.00	21.00	22.00	21.00
	7	22.00	21.00	22.00	21.00	22.00	21.00	21.70	20.70
	8	22.00	21.00	21.00	20.00	21.00	20.00	20.70	19.70
	9	22.00	21.00	20.20	19.20	20.20	19.20	19.50	18.50
	10	22.00	21.00	19.00	18.00	19.00	18.00	18.20	17.20
	11	22.00	21.00	17.70	16.70	17.70	16.70	17.20	16.20
	12	20.20	19.20	15.50	14.50	15.50	14.50	15.20	14.20
	13	17.50	16.50	10.50	9.50	10.50	9.50	7.00	6.00

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF2b							
		MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	15.00	14.00	14.20	13.20	15.00	14.00	14.20	13.20
	2	18.70	17.70	17.70	16.70	18.70	17.70	17.70	16.70
	3	20.00	19.00	18.70	17.70	20.00	19.00	18.70	17.70
	4	20.20	19.20	19.50	18.50	20.20	19.20	19.50	18.50
	5	21.50	20.50	21.00	20.00	21.50	20.50	21.00	20.00
	6	22.00	21.00	22.00	21.00	22.00	21.00	22.00	21.00
	7	21.70	20.70	21.50	20.50	21.70	20.70	21.50	20.50
	8	21.00	20.00	20.00	19.00	21.00	20.00	20.00	19.00
	9	20.00	19.00	19.20	18.20	20.00	19.00	19.20	18.20
	10	18.70	17.70	18.20	17.20	18.70	17.70	18.20	17.20
	11	17.20	16.20	16.50	15.50	17.20	16.20	16.50	15.50
	12	15.00	14.00	14.50	13.50	15.00	14.00	14.50	13.50
	13	9.00	8.00	7.00	6.00	9.00	8.00	7.00	6.00

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.30	6.30	7.60	6.60	1.40	0.40	4.40	3.40
	5	8.10	7.10	8.30	7.30	2.20	1.20	5.20	4.20
	9-29	8.00	7.00	8.30	7.30	2.20	1.20	5.20	4.20
	33-61	7.90	6.90	8.10	7.10	2.20	1.20	5.20	4.20
	65-85	8.90	7.90	9.00	8.00	3.10	2.10	6.10	5.10
	89	9.10	8.10	9.10	8.10	3.20	2.20	6.20	5.20
	93	8.90	7.90	9.20	8.20	3.40	2.40	6.40	5.40
	97-113	8.60	7.60	8.80	7.80	3.10	2.10	6.10	5.10
	117-181	6.70	5.70	6.90	5.90	1.50	0.50	4.50	3.50
	185	6.90	5.90	7.10	6.10	1.60	0.60	4.60	3.60
	189-225	6.80	5.80	7.10	6.10	1.40	0.40	4.40	3.40
	229	6.80	5.80	7.20	6.20	1.60	0.60	4.60	3.60
	233	6.10	5.10	6.40	5.40	0.70	-0.30	3.70	2.70
	3			10.40	9.40	4.30	3.30	7.30	6.30
	11			11.40	10.40	5.30	4.30	8.30	7.30
	19-27			11.40	10.40	5.10	4.10	8.10	7.10
6 GHz WiFi (40MHz BW) LP	35-59			11.00	10.00	5.10	4.10	8.10	7.10
	67-75			12.10	11.10	6.10	5.10	9.10	8.10
	83			12.10	11.10	6.10	5.10	9.10	8.10
	91			12.00	11.00	6.20	5.20	9.20	8.20
	99-107			11.80	10.80	6.20	5.20	9.20	8.20
	115			10.00	9.00	4.60	3.60	7.60	6.60
	123-179			9.80	8.80	4.30	3.30	7.30	6.30
	187			10.10	9.10	4.50	3.50	7.50	6.50
	195-219			10.10	9.10	4.50	3.50	7.50	6.50
	227			10.10	9.10	4.50	3.50	7.50	6.50
	7			13.00	12.00	7.20	6.20	10.20	9.20
	23			13.00	12.00	8.20	7.20	11.20	10.20
	39-55			12.50	11.50	8.10	7.10	11.10	10.10
	71			13.75	12.75	9.20	8.20	12.20	11.20
	87			13.75	12.75	9.10	8.10	12.10	11.10
	103			12.75	11.75	9.10	8.10	12.10	11.10
	119			12.75	11.75	7.60	6.60	10.60	9.60
6 GHz WiFi (80MHz BW) LP	135-167			12.90	11.90	7.50	6.50	10.50	9.50
	183			13.00	12.00	7.50	6.50	10.50	9.50
	199			12.50	11.50	7.30	6.30	10.30	9.30
	215			12.50	11.50	7.20	6.20	10.20	9.20
	15			13.00	12.00	10.20	9.20	13.00	12.00
	47			12.50	11.50	10.80	9.80	12.50	11.50
	79			13.75	12.75	11.90	10.90	13.75	12.75
	111			12.75	11.75	10.20	9.20	12.75	11.75
	143			13.00	12.00	10.40	9.40	13.00	12.00
	175			13.00	12.00	10.10	9.10	13.00	12.00
	207			12.50	11.50	10.00	9.00	12.50	11.50
Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	3.90	2.90	4.10	3.10	-1.80	-2.80	1.20	0.20
	65-85	4.90	3.90	5.00	4.00	-0.90	-1.90	2.10	1.10
	89	5.10	4.10	5.10	4.10	-0.80	-1.80	2.20	1.20
	93	4.90	3.90	5.20	4.20	-0.60	-1.60	2.40	1.40
	97-113	4.60	3.60	4.80	3.80	-0.90	-1.90	2.10	1.10
	117-181	2.70	1.70	2.90	1.90	-2.50	-3.50	0.50	-0.50
	185	2.90	1.90	3.10	2.10	-2.40	-3.40	0.60	-0.40
	189-225	2.80	1.80	3.10	2.10	-2.60	-3.60	0.40	-0.60
	229	2.80	1.80	3.20	2.20	-2.40	-3.40	0.60	-0.40
	233	2.10	1.10	2.40	1.40	-3.30	-4.30	-0.30	-1.30
	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	19-27			NS	NS	NS	NS	NS	NS
	35-59			7.00	6.00	1.10	0.10	4.10	3.10
	67-75			8.10	7.10	2.10	1.10	5.10	4.10
	83			8.10	7.10	2.10	1.10	5.10	4.10
	91			8.00	7.00	2.20	1.20	5.20	4.20
	99-107			7.80	6.80	2.20	1.20	5.20	4.20
	115			6.00	5.00	0.60	-0.40	3.60	2.60
	123-179			5.80	4.80	0.30	-0.70	3.30	2.30
	187			6.10	5.10	0.50	-0.50	3.50	2.50
	195-219			6.10	5.10	0.50	-0.50	3.50	2.50
	227			6.10	5.10	0.50	-0.50	3.50	2.50
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.00	9.00	4.10	3.10	7.10	6.10
	71			11.00	10.00	5.20	4.20	8.20	7.20
	87			10.90	9.90	5.10	4.10	8.10	7.10
	103			10.80	9.80	5.10	4.10	8.10	7.10
6 GHz WiFi (80MHz BW) VLP	119			9.00	8.00	3.60	2.60	6.60	5.60
	135-167			8.90	7.90	3.50	2.50	6.50	5.50
	183			9.00	8.00	3.50	2.50	6.50	5.50
	199			8.90	7.90	3.30	2.30	6.30	5.30
	215			8.80	7.80	3.20	2.20	6.20	5.20
	15			NS	NS	NS	NS	NS	NS
	47			11.80	10.80	6.80	5.80	8.90	7.90
	79			12.70	11.70	7.90	6.90	9.90	8.90
	111			10.70	9.70	6.20	5.20	8.30	7.30
	143			10.70	9.70	6.40	5.40	8.30	7.30
	175			10.70	9.70	6.10	5.10	8.20	7.20
	207			10.80	9.80	6.00	5.00	8.20	7.20

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00
	5	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00
	9-29	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00
	33-61	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	65-85	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	89	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	93	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			13.00	12.00	13.00	12.00	13.00	12.00
	11			13.00	12.00	13.00	12.00	13.00	12.00
	19-27			13.00	12.00	13.00	12.00	13.00	12.00
	35-59			12.50	11.50	12.50	11.50	12.50	11.50
	67-75			13.75	12.75	13.75	12.75	13.75	12.75
	83			13.75	12.75	13.75	12.75	13.75	12.75
	91			13.75	12.75	13.75	12.75	13.75	12.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			12.75	11.75	12.75	11.75	12.75	11.75
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			13.00	12.00	13.00	12.00	13.00	12.00
	23			13.00	12.00	13.00	12.00	13.00	12.00
	39-55			12.50	11.50	12.50	11.50	12.50	11.50
	71			13.75	12.75	13.75	12.75	13.75	12.75
	87			13.75	12.75	13.75	12.75	13.75	12.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.00	12.00	13.00	12.00	13.00	12.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			13.00	12.00	13.00	12.00	13.00	12.00
	47			12.50	11.50	12.50	11.50	12.50	11.50
	79			13.75	12.75	13.75	12.75	13.75	12.75
	111			NS	NS	NS	NS	NS	NS
	143			13.00	12.00	13.00	12.00	13.00	12.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF2a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.40	6.40	7.40	6.40	1.40	0.40	4.40	3.40
	5	8.10	7.10	8.20	7.20	2.20	1.20	5.20	4.20
	9-29	8.00	7.00	8.20	7.20	2.20	1.20	5.20	4.20
	33-61	8.40	7.40	8.50	7.50	2.20	1.20	5.20	4.20
	65-85	9.50	8.50	9.50	8.50	3.10	2.10	6.10	5.10
	89	9.40	8.40	9.60	8.60	3.20	2.20	6.20	5.20
	93	9.60	8.60	9.80	8.80	3.40	2.40	6.40	5.40
	97-113	9.50	8.50	9.60	8.60	3.10	2.10	6.10	5.10
	117-181	8.20	7.20	8.30	7.30	1.50	0.50	4.50	3.50
	185	8.00	7.00	8.20	7.20	1.60	0.60	4.60	3.60
	189-225	7.90	6.90	8.00	7.00	1.40	0.40	4.40	3.40
	229	7.90	6.90	8.20	7.20	1.60	0.60	4.60	3.60
	233	7.30	6.30	7.30	6.30	0.70	-0.30	3.70	2.70
	3			10.30	9.30	4.30	3.30	7.30	6.30
6 GHz WIFI (40MHz BW) LP	11			11.30	10.30	5.30	4.30	8.30	7.30
	19-27			11.10	10.10	5.10	4.10	8.10	7.10
	35-59			11.40	10.40	5.10	4.10	8.10	7.10
	67-75			12.50	11.50	6.10	5.10	9.10	8.10
	83			12.50	11.50	6.10	5.10	9.10	8.10
	91			12.60	11.60	6.20	5.20	9.20	8.20
	99-107			12.70	11.70	6.20	5.20	9.20	8.20
	115			11.40	10.40	4.60	3.60	7.60	6.60
	123-179			11.10	10.10	4.30	3.30	7.30	6.30
	187			11.10	10.10	4.50	3.50	7.50	6.50
	195-219			11.10	10.10	4.50	3.50	7.50	6.50
	227			11.20	10.20	4.50	3.50	7.50	6.50
	7			12.75	11.75	7.20	6.20	10.20	9.20
	23			12.75	11.75	8.20	7.20	11.20	10.20
	39-55			14.00	13.00	8.10	7.10	11.10	10.10
6 GHz WIFI (80MHz BW) LP	71			15.00	14.00	9.20	8.20	12.20	11.20
	87			15.00	14.00	9.10	8.10	12.10	11.10
	103			13.75	12.75	9.10	8.10	12.10	11.10
	119			13.75	12.75	7.60	6.60	10.60	9.60
	135-167			13.75	12.75	7.50	6.50	10.50	9.50
	183			13.75	12.75	7.50	6.50	10.50	9.50
	199			13.25	12.25	7.30	6.30	10.30	9.30
	215			13.25	12.25	7.20	6.20	10.20	9.20
	15			12.75	11.75	10.20	9.20	12.75	11.75
	47			14.00	13.00	10.80	9.80	13.80	12.80
	79			15.00	14.00	11.90	10.90	14.90	13.90
	111			13.75	12.75	10.20	9.20	13.20	12.20
	143			13.75	12.75	10.40	9.40	13.40	12.40
	175			13.75	12.75	10.10	9.10	13.10	12.10
	207			13.25	12.25	10.00	9.00	13.00	12.00
Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF2a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	4.40	3.40	4.50	3.50	-1.80	-2.80	1.20	0.20
	65-85	5.50	4.50	5.50	4.50	-0.90	-1.90	2.10	1.10
	89	5.40	4.40	5.60	4.60	-0.80	-1.80	2.20	1.20
	93	5.60	4.60	5.80	4.80	-0.60	-1.60	2.40	1.40
	97-113	5.50	4.50	5.60	4.60	-0.90	-1.90	2.10	1.10
	117-181	4.20	3.20	4.30	3.30	-2.50	-3.50	0.50	-0.50
	185	4.00	3.00	4.20	3.20	-2.40	-3.40	0.60	-0.40
	189-225	3.90	2.90	4.00	3.00	-2.60	-3.60	0.40	-0.60
	229	3.90	2.90	4.20	3.20	-2.40	-3.40	0.60	-0.40
	233	3.30	2.30	3.30	2.30	-3.30	-4.30	-0.30	-1.30
	3			NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			7.40	6.40	1.10	0.10	4.10	3.10
	67-75			8.50	7.50	2.10	1.10	5.10	4.10
	83			8.50	7.50	2.10	1.10	5.10	4.10
	91			8.60	7.60	2.20	1.20	5.20	4.20
	99-107			8.70	7.70	2.20	1.20	5.20	4.20
	115			7.40	6.40	0.60	-0.40	3.60	2.60
	123-179			7.10	6.10	0.30	-0.70	3.30	2.30
	187			7.10	6.10	0.50	-0.50	3.50	2.50
	195-219			7.10	6.10	0.50	-0.50	3.50	2.50
	227			7.20	6.20	0.50	-0.50	3.50	2.50
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.40	9.40	4.10	3.10	7.10	6.10
6 GHz WIFI (80MHz BW) VLP	71			11.60	10.60	5.20	4.20	8.20	7.20
	87			11.50	10.50	5.10	4.10	8.10	7.10
	103			11.60	10.60	5.10	4.10	8.10	7.10
	119			10.40	9.40	3.60	2.60	6.60	5.60
	135-167			10.40	9.40	3.50	2.50	6.50	5.50
	183			10.30	9.30	3.50	2.50	6.50	5.50
	199			10.10	9.10	3.30	2.30	6.30	5.30
	215			10.10	9.10	3.20	2.20	6.20	5.20
	15			NS	NS	NS	NS	NS	NS
	47			12.20	11.20	6.80	5.80	8.90	7.90
	79			13.30	12.30	7.90	6.90	9.90	8.90
	111			12.10	11.10	6.20	5.20	8.30	7.30
	143			12.10	11.10	6.40	5.40	8.30	7.30
	175			11.80	10.80	6.10	5.10	8.20	7.20
	207			11.80	10.80	6.00	5.00	8.20	7.20

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF2a								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	5	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	9-29	12.75	11.75	12.75	11.75	12.75	11.75	12.75	11.75
	33-61	14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00
	65-85	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	89	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	93	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			12.75	11.75	12.75	11.75	12.75	11.75
	11			12.75	11.75	12.75	11.75	12.75	11.75
	19-27			12.75	11.75	12.75	11.75	12.75	11.75
	35-59			14.00	13.00	14.00	13.00	14.00	13.00
	67-75			15.00	14.00	15.00	14.00	15.00	14.00
	83			15.00	14.00	15.00	14.00	15.00	14.00
	91			15.00	14.00	15.00	14.00	15.00	14.00
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			13.75	12.75	13.75	12.75	13.75	12.75
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			12.75	11.75	12.75	11.75	12.75	11.75
	23			12.75	11.75	12.75	11.75	12.75	11.75
	39-55			14.00	13.00	14.00	13.00	14.00	13.00
	71			15.00	14.00	15.00	14.00	15.00	14.00
	87			15.00	14.00	15.00	14.00	15.00	14.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.75	12.75	13.75	12.75	13.75	12.75
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			12.75	11.75	12.75	11.75	12.75	11.75
	47			14.00	13.00	14.00	13.00	14.00	13.00
	79			15.00	14.00	15.00	14.00	15.00	14.00
	111			NS	NS	NS	NS	NS	NS
	143			13.75	12.75	13.75	12.75	13.75	12.75
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7b								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.30	6.30	7.60	6.60	1.40	0.40	4.40	3.40
	5	8.10	7.10	8.30	7.30	2.20	1.20	5.20	4.20
	9-29	8.00	7.00	8.30	7.30	2.20	1.20	5.20	4.20
	33-61	7.90	6.90	8.10	7.10	2.20	1.20	5.20	4.20
	65-85	8.90	7.90	9.00	8.00	3.10	2.10	6.10	5.10
	89	9.10	8.10	9.10	8.10	3.20	2.20	6.20	5.20
	93	8.90	7.90	9.20	8.20	3.40	2.40	6.40	5.40
	97-113	8.60	7.60	8.80	7.80	3.10	2.10	6.10	5.10
	117-181	6.70	5.70	6.90	5.90	1.50	0.50	4.50	3.50
	185	6.90	5.90	7.10	6.10	1.60	0.60	4.60	3.60
	189-225	6.80	5.80	7.10	6.10	1.40	0.40	4.40	3.40
	229	6.80	5.80	7.20	6.20	1.60	0.60	4.60	3.60
	233	6.10	5.10	6.40	5.40	0.70	-0.30	3.70	2.70
	3			10.40	9.40	4.30	3.30	7.30	6.30
	11			11.40	10.40	5.30	4.30	8.30	7.30
	19-27			11.40	10.40	5.10	4.10	8.10	7.10
6 GHz WIFI (40MHz BW) LP	35-59			11.00	10.00	5.10	4.10	8.10	7.10
	67-75			12.10	11.10	6.10	5.10	9.10	8.10
	83			12.10	11.10	6.10	5.10	9.10	8.10
	91			12.00	11.00	6.20	5.20	9.20	8.20
	99-107			11.80	10.80	6.20	5.20	9.20	8.20
	115			10.00	9.00	4.60	3.60	7.60	6.60
	123-179			9.80	8.80	4.30	3.30	7.30	6.30
	187			10.10	9.10	4.50	3.50	7.50	6.50
	195-219			10.10	9.10	4.50	3.50	7.50	6.50
	227			10.10	9.10	4.50	3.50	7.50	6.50
	7			13.50	12.50	7.20	6.20	10.20	9.20
	23			14.30	13.30	8.20	7.20	11.20	10.20
	39-55			14.00	13.00	8.10	7.10	11.10	10.10
	71			13.75	12.75	9.20	8.20	12.20	11.20
	87			13.75	12.75	9.10	8.10	12.10	11.10
	103			14.80	13.80	9.10	8.10	12.10	11.10
	119			13.00	12.00	7.60	6.60	10.60	9.60
6 GHz WIFI (80MHz BW) LP	135-167			12.90	11.90	7.50	6.50	10.50	9.50
	183			13.00	12.00	7.50	6.50	10.50	9.50
	199			12.90	11.90	7.30	6.30	10.30	9.30
	215			12.80	11.80	7.20	6.20	10.20	9.20
	15			15.50	14.50	10.20	9.20	13.20	12.20
	47			15.00	14.00	10.80	9.80	13.80	12.80
	79			13.75	12.75	11.90	10.90	13.75	12.75
	111			15.50	14.50	10.20	9.20	13.20	12.20
	143			15.80	14.80	10.40	9.40	13.40	12.40
	175			15.60	14.60	10.10	9.10	13.10	12.10
	207			15.60	14.60	10.00	9.00	13.00	12.00
Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7b								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	3.90	2.90	4.10	3.10	-1.80	-2.80	1.20	0.20
	65-85	4.90	3.90	5.00	4.00	-0.90	-1.90	2.10	1.10
	89	5.10	4.10	5.10	4.10	-0.80	-1.80	2.20	1.20
	93	4.90	3.90	5.20	4.20	-0.60	-1.60	2.40	1.40
	97-113	4.60	3.60	4.80	3.80	-0.90	-1.90	2.10	1.10
	117-181	2.70	1.70	2.90	1.90	-2.50	-3.50	0.50	-0.50
	185	2.90	1.90	3.10	2.10	-2.40	-3.40	0.60	-0.40
	189-225	2.80	1.80	3.10	2.10	-2.60	-3.60	0.40	-0.60
	229	2.80	1.80	3.20	2.20	-2.40	-3.40	0.60	-0.40
	233	2.10	1.10	2.40	1.40	-3.30	-4.30	-0.30	-1.30
	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	35-59			7.00	6.00	1.10	0.10	4.10	3.10
	67-75			8.10	7.10	2.10	1.10	5.10	4.10
	83			8.10	7.10	2.10	1.10	5.10	4.10
	91			8.00	7.00	2.20	1.20	5.20	4.20
	99-107			7.80	6.80	2.20	1.20	5.20	4.20
	115			6.00	5.00	0.60	-0.40	3.60	2.60
	123-179			5.80	4.80	0.30	-0.70	3.30	2.30
	187			6.10	5.10	0.50	-0.50	3.50	2.50
	195-219			6.10	5.10	0.50	-0.50	3.50	2.50
	227			6.10	5.10	0.50	-0.50	3.50	2.50
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.00	9.00	4.10	3.10	7.10	6.10
	71			11.00	10.00	5.20	4.20	8.20	7.20
	87			10.90	9.90	5.10	4.10	8.10	7.10
	103			10.80	9.80	5.10	4.10	8.10	7.10
	119			9.00	8.00	3.60	2.60	6.60	5.60
6 GHz WIFI (80MHz BW) VLP	135-167			8.90	7.90	3.50	2.50	6.50	5.50
	183			9.00	8.00	3.50	2.50	6.50	5.50
	199			8.90	7.90	3.30	2.30	6.30	5.30
	215			8.80	7.80	3.20	2.20	6.20	5.20
	15			NS	NS	NS	NS	NS	NS
	47			11.80	10.80	6.80	5.80	8.90	7.90
	79			12.70	11.70	7.90	6.90	9.90	8.90
	111			10.70	9.70	6.20	5.20	8.30	7.30
	143			10.70	9.70	6.40	5.40	8.30	7.30
	175			10.70	9.70	6.10	5.10	8.20	7.20
	207			10.80	9.80	6.00	5.00	8.20	7.20

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7b								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	5	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	9-29	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	33-61	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	65-85	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	89	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	93	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			15.50	14.50	15.50	14.50	15.50	14.50
	11			15.50	14.50	15.50	14.50	15.50	14.50
	19-27			15.50	14.50	15.50	14.50	15.50	14.50
	35-59			15.00	14.00	15.00	14.00	15.00	14.00
	67-75			13.75	12.75	13.75	12.75	13.75	12.75
	83			13.75	12.75	13.75	12.75	13.75	12.75
	91			13.75	12.75	13.75	12.75	13.75	12.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			15.50	14.50	15.50	14.50	15.50	14.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			15.50	14.50	15.50	14.50	15.50	14.50
	23			15.50	14.50	15.50	14.50	15.50	14.50
	39-55			15.00	14.00	15.00	14.00	15.00	14.00
	71			13.75	12.75	13.75	12.75	13.75	12.75
	87			13.75	12.75	13.75	12.75	13.75	12.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			17.50	16.50	17.50	16.50	17.50	16.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			15.50	14.50	15.50	14.50	15.50	14.50
	47			15.00	14.00	15.00	14.00	15.00	14.00
	79			13.75	12.75	13.75	12.75	13.75	12.75
	111			NS	NS	NS	NS	NS	NS
	143			17.50	16.50	17.50	16.50	17.50	16.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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1.3.2 Bluetooth Maximum Output Power

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

Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (ePA) TXBF (dBm) Antenna WF7b	Modulated Average (iPA) TXBF (dBm) Antenna WF7b
BDR	Maximum	20.00	9.50	17.00	9.50
	Nominal	19.00	8.50	16.00	8.50
EDR	Maximum	16.50	6.50	13.50	6.50
	Nominal	15.50	5.50	12.50	5.50
LE Adv	Maximum	21.00	9.50	19.50	9.50
	Nominal	20.00	8.50	18.50	8.50
LE1M	Maximum	21.00	9.50	19.50	9.50
	Nominal	20.00	8.50	18.50	8.50
LE2M	Maximum	21.00	9.50	20.50	9.50
	Nominal	20.00	8.50	19.50	8.50
HDR4	Maximum	14.00	6.50	14.00	6.50
	Nominal	13.00	5.50	13.00	5.50
HDR8	Maximum	14.00	6.50	14.00	6.50
	Nominal	13.00	5.50	13.00	5.50
XHDR HDRPS 2	Maximum	14.00	6.50	14.00	6.50
	Nominal	13.00	5.50	13.00	5.50
XHDRP HDRPM 4/6/8	Maximum	14.00	6.50	14.00	6.50
	Nominal	13.00	5.50	13.00	5.50
XHDRPM HDRPM 12/16	Maximum	12.00	3.50	12.00	3.50
	Nominal	11.00	2.50	11.00	2.50
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	14.00	6.50	14.00	6.50
	Nominal	13.00	5.50	13.00	5.50
HDT4	Maximum	14.00	6.50	14.00	6.50
	Nominal	13.00	5.50	13.00	5.50
HDT 6/8	Maximum	12.00	3.50	12.00	3.50
	Nominal	11.00	2.50	11.00	2.50

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Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (ePA) TXBF (dBm) Antenna WF2b	Modulated Average (iPA) TXBF (dBm) Antenna WF2b
BDR	Maximum	20.00	10.00	17.00	10.00
	Nominal	19.00	9.00	16.00	9.00
EDR	Maximum	16.50	7.00	13.50	7.00
	Nominal	15.50	6.00	12.50	6.00
LE Adv	Maximum	20.50	10.00	19.50	10.00
	Nominal	19.50	9.00	18.50	9.00
LE1M	Maximum	20.50	10.00	19.50	10.00
	Nominal	19.50	9.00	18.50	9.00
LE2M	Maximum	20.50	10.00	20.50	10.00
	Nominal	19.50	9.00	19.50	9.00
HDR4	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.50	6.00	12.50	6.00
HDR8	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.50	6.00	12.50	6.00
XHDR HDRPS 2	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.50	6.00	12.50	6.00
XHDRP HDRPM 4/6/8	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.50	6.00	12.50	6.00
XHDRPM HDRPM 12/16	Maximum	11.50	4.00	11.50	4.00
	Nominal	10.50	3.00	10.50	3.00
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.50	6.00	12.50	6.00
HDT4	Maximum	13.50	7.00	13.50	7.00
	Nominal	12.50	6.00	12.50	6.00
HDT 6/8	Maximum	11.50	4.00	11.50	4.00
	Nominal	10.50	3.00	10.50	3.00

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1.3.3 802.15.4 Maximum Output Power

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
802.15.4	Maximum	20.50	9.50
	Nominal	19.50	8.50

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2b
802.15.4	Maximum	20.50	10.00
	Nominal	19.50	9.00

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1.3.4 NB UNII Maximum Output Power

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

NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
BDR	Maximum	10.00	6.00	7.00	6.00
	Nominal	9.00	5.00	6.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE1M	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE2M	Maximum	11.00	6.00	8.00	6.00
	Nominal	10.00	5.00	7.00	5.00
HDR4	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
HDR8	Maximum	14.50	3.00	11.50	3.00
	Nominal	13.50	2.00	10.50	2.00
XHDR HDRPS 2	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
XHDRP HDRPM 4/6/8	Maximum	14.50	3.00	11.75	3.00
	Nominal	13.50	2.00	10.75	2.00
XHDRPM HDRPM 12/16	Maximum	11.50	0.00	11.50	0.00
	Nominal	10.50	-1.00	10.50	-1.00
XHDRPL HDRPL 8/12/16	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDRPL 24/32	Maximum	11.50	0.00	11.50	0.00
	Nominal	10.50	-1.00	10.50	-1.00
HDT 2/3	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT4	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT 6/8	Maximum	11.50	0.00	9.25	0.00
	Nominal	10.50	-1.00	8.25	-1.00

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NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
BDR	Maximum	10.00	5.50	7.00	5.50
	Nominal	9.00	4.50	6.00	4.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	5.50	7.25	5.50
	Nominal	9.25	4.50	6.25	4.50
LE1M	Maximum	10.25	5.50	7.25	5.50
	Nominal	9.25	4.50	6.25	4.50
LE2M	Maximum	11.00	5.50	8.00	5.50
	Nominal	10.00	4.50	7.00	4.50
HDR4	Maximum	12.25	2.50	9.25	2.50
	Nominal	11.25	1.50	8.25	1.50
HDR8	Maximum	14.00	2.50	11.50	2.50
	Nominal	13.00	1.50	10.50	1.50
XHDR HDRPS 2	Maximum	12.25	2.50	9.25	2.50
	Nominal	11.25	1.50	8.25	1.50
XHDRP HDRPM 4/6/8	Maximum	14.00	2.50	11.75	2.50
	Nominal	13.00	1.50	10.75	1.50
XHDRPM HDRPM 12/16	Maximum	11.00	-0.50	11.00	-0.50
	Nominal	10.00	-1.50	10.00	-1.50
XHDRPL HDRPL 8/12/16	Maximum	14.00	2.50	14.00	2.50
	Nominal	13.00	1.50	13.00	1.50
HDRPL 24/32	Maximum	11.00	-0.50	11.00	-0.50
	Nominal	10.00	-1.50	10.00	-1.50
HDT 2/3	Maximum	12.50	2.50	9.50	2.50
	Nominal	11.50	1.50	8.50	1.50
HDT4	Maximum	12.50	2.50	9.50	2.50
	Nominal	11.50	1.50	8.50	1.50
HDT 6/8	Maximum	11.00	-0.50	9.25	-0.50
	Nominal	10.00	-1.50	8.25	-1.50

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NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (ePA) TXBF (dBm) Antenna WF7b	Modulated Average (iPA) TXBF (dBm) Antenna WF7b
BDR	Maximum	10.00	4.50	7.00	4.50
	Nominal	9.00	3.50	6.00	3.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	4.50	7.25	4.50
	Nominal	9.25	3.50	6.25	3.50
LE1M	Maximum	10.25	4.50	7.25	4.50
	Nominal	9.25	3.50	6.25	3.50
LE2M	Maximum	11.00	4.50	8.00	4.50
	Nominal	10.00	3.50	7.00	3.50
HDR4	Maximum	12.25	1.50	9.25	1.50
	Nominal	11.25	0.50	8.25	0.50
HDR8	Maximum	14.50	1.50	11.50	1.50
	Nominal	13.50	0.50	10.50	0.50
XHDR HDRPS 2	Maximum	12.25	1.50	9.25	1.50
	Nominal	11.25	0.50	8.25	0.50
XHDRP HDRPM 4/6/8	Maximum	14.75	1.50	11.75	1.50
	Nominal	13.75	0.50	10.75	0.50
XHDRPM HDRPM 12/16	Maximum	12.00	-1.50	11.75	-1.50
	Nominal	11.00	-2.50	10.75	-2.50
XHDRPL HDRPL 8/12/16	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
HDRPL 24/32	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50
HDT 2/3	Maximum	12.50	1.50	9.50	1.50
	Nominal	11.50	0.50	8.50	0.50
HDT4	Maximum	12.50	1.50	9.50	1.50
	Nominal	11.50	0.50	8.50	0.50
HDT 6/8	Maximum	12.00	-1.50	9.25	-1.50
	Nominal	11.00	-2.50	8.25	-2.50

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
BDR	Maximum	19.50	6.00	20.00	6.00
	Nominal	18.50	5.00	19.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	19.50	6.00	20.00	6.00
	Nominal	18.50	5.00	19.00	5.00
LE1M	Maximum	19.50	6.00	20.00	6.00
	Nominal	18.50	5.00	19.00	5.00
LE2M	Maximum	19.50	6.00	20.00	6.00
	Nominal	18.50	5.00	19.00	5.00
HDR4	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
HDR8	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
XHDR HDRPS 2	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
XHDRP HDRPM 4/6/8	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
XHDRPM HDRPM 12/16	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00
XHDRPL HDRPL 8/12/16	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
HDRPL 24/32	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00
HDT 2/3	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
HDT4	Maximum	15.00	3.00	15.00	3.00
	Nominal	14.00	2.00	14.00	2.00
HDT 6/8	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
BDR	Maximum	19.25	5.50	19.50	5.50
	Nominal	18.25	4.50	18.50	4.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	19.25	5.50	19.50	5.50
	Nominal	18.25	4.50	18.50	4.50
LE1M	Maximum	19.25	5.50	19.50	5.50
	Nominal	18.25	4.50	18.50	4.50
LE2M	Maximum	19.25	5.50	19.50	5.50
	Nominal	18.25	4.50	18.50	4.50
HDR4	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDR8	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
XHDR HDRPS 2	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
XHDRP HDRPM 4/6/8	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
XHDRPM HDRPM 12/16	Maximum	11.50	-0.50	11.50	-0.50
	Nominal	10.50	-1.50	10.50	-1.50
XHDRPL HDRPL 8/12/16	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDRPL 24/32	Maximum	11.50	-0.50	11.50	-0.50
	Nominal	10.50	-1.50	10.50	-1.50
HDT 2/3	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDT4	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDT 6/8	Maximum	11.50	-0.50	11.50	-0.50
	Nominal	10.50	-1.50	10.50	-1.50

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (ePA) TXBF (dBm) Antenna WF7b	Modulated Average (iPA) TXBF (dBm) Antenna WF7b
BDR	Maximum	20.00	4.50	20.00	4.50
	Nominal	19.00	3.50	19.00	3.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	20.00	4.50	20.00	4.50
	Nominal	19.00	3.50	19.00	3.50
LE1M	Maximum	20.00	4.50	20.00	4.50
	Nominal	19.00	3.50	19.00	3.50
LE2M	Maximum	20.00	4.50	20.00	4.50
	Nominal	19.00	3.50	19.00	3.50
HDR4	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
HDR8	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
XHDP HDRPS 2	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
XHDP HDRPM 4/6/8	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
XHDP HDRPM 12/16	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50
XHDP HDRPL 8/12/16	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
HDRPL 24/32	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50
HDT 2/3	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
HDT4	Maximum	15.00	1.50	15.00	1.50
	Nominal	14.00	0.50	14.00	0.50
HDT 6/8	Maximum	12.00	-1.50	12.00	-1.50
	Nominal	11.00	-2.50	11.00	-2.50

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
BDR	Maximum	-7.25	-7.25	-13.50	-13.50
	Nominal	-8.25	-8.25	-14.50	-14.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
LE1M	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
LE2M	Maximum	-6.25	-6.25	-12.50	-12.50
	Nominal	-7.25	-7.25	-13.50	-13.50
HDR4	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00
HDR8	Maximum	-3.25	-3.25	-9.50	-9.50
	Nominal	-4.25	-4.25	-10.50	-10.50
XHDR HDRPS 2	Maximum	-5.00	-5.00	-11.25	-11.25
	Nominal	-6.00	-6.00	-12.25	-12.25
XHDRP HDRPM 4/6/8	Maximum	-2.25	-2.25	-8.50	-8.50
	Nominal	-3.25	-3.25	-9.50	-9.50
XHDRPM HDRPM 12/16	Maximum	-2.25	-2.25	-8.50	-8.50
	Nominal	-3.25	-3.25	-9.50	-9.50
XHDRPL HDRPL 8/12/16	Maximum	0.75	0.75	-5.50	-5.50
	Nominal	-0.25	-0.25	-6.50	-6.50
HDRPL 24/32	Maximum	0.50	0.00	-5.50	-5.50
	Nominal	-0.50	-1.00	-6.50	-6.50
HDT 2/3	Maximum	-4.75	-4.75	-10.75	-10.75
	Nominal	-5.75	-5.75	-11.75	-11.75
HDT4	Maximum	-4.75	-4.75	-10.75	-10.75
	Nominal	-5.75	-5.75	-11.75	-11.75
HDT 6/8	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
BDR	Maximum	-7.25	-7.25	-13.50	-13.50
	Nominal	-8.25	-8.25	-14.50	-14.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
LE1M	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
LE2M	Maximum	-6.25	-6.25	-12.50	-12.50
	Nominal	-7.25	-7.25	-13.50	-13.50
HDR4	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00
HDR8	Maximum	-3.25	-3.25	-9.50	-9.50
	Nominal	-4.25	-4.25	-10.50	-10.50
XHDR HDRPS 2	Maximum	-5.00	-5.00	-11.25	-11.25
	Nominal	-6.00	-6.00	-12.25	-12.25
XHDRP HDRPM 4/6/8	Maximum	-2.25	-2.25	-8.50	-8.50
	Nominal	-3.25	-3.25	-9.50	-9.50
XHDRPM HDRPM 12/16	Maximum	-2.25	-2.25	-8.50	-8.50
	Nominal	-3.25	-3.25	-9.50	-9.50
XHDRPL HDRPL 8/12/16	Maximum	0.75	0.75	-5.50	-5.50
	Nominal	-0.25	-0.25	-6.50	-6.50
HDRPL 24/32	Maximum	0.50	-0.50	-5.50	-5.50
	Nominal	-0.50	-1.50	-6.50	-6.50
HDT 2/3	Maximum	-4.75	-4.75	-10.75	-10.75
	Nominal	-5.75	-5.75	-11.75	-11.75
HDT4	Maximum	-4.75	-4.75	-10.75	-10.75
	Nominal	-5.75	-5.75	-11.75	-11.75
HDT 6/8	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (ePA) TXBF (dBm) Antenna WF7b	Modulated Average (iPA) TXBF (dBm) Antenna WF7b
BDR	Maximum	-7.25	-7.25	-13.25	-13.25
	Nominal	-8.25	-8.25	-14.25	-14.25
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
LE1M	Maximum	-7.00	-7.00	-13.00	-13.00
	Nominal	-8.00	-8.00	-14.00	-14.00
LE2M	Maximum	-6.25	-6.25	-12.25	-12.25
	Nominal	-7.25	-7.25	-13.25	-13.25
HDR4	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00
HDR8	Maximum	-3.25	-3.25	-9.25	-9.25
	Nominal	-4.25	-4.25	-10.25	-10.25
XHDR HDRPS 2	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00
XHDRP HDRPM 4/6/8	Maximum	-2.25	-2.25	-8.25	-8.25
	Nominal	-3.25	-3.25	-9.25	-9.25
XHDRPM HDRPM 12/16	Maximum	-2.25	-2.25	-8.25	-8.25
	Nominal	-3.25	-3.25	-9.25	-9.25
XHDRPL HDRPL 8/12/16	Maximum	0.75	0.75	-5.25	-5.25
	Nominal	-0.25	-0.25	-6.25	-6.25
HDRPL 24/32	Maximum	0.50	-1.50	-5.50	-5.50
	Nominal	-0.50	-2.50	-6.50	-6.50
HDT 2/3	Maximum	-4.50	-4.50	-10.75	-10.75
	Nominal	-5.50	-5.50	-11.75	-11.75
HDT4	Maximum	-4.50	-4.50	-10.75	-10.75
	Nominal	-5.50	-5.50	-11.75	-11.75
HDT 6/8	Maximum	-5.00	-5.00	-11.00	-11.00
	Nominal	-6.00	-6.00	-12.00	-12.00

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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.

1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating 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.

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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 MMO + WPT	Yes
3	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi +WPT	Yes
4	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
5	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
6	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	2.4 GHz Bluetooth (TXBF)	Yes
8	NB U-NII (TXBF)	Yes
9	2.4 GHz Bluetooth + NB U-NII	Yes
10	2.4 GHz Bluetooth + NB U-NII (TXBF)	Yes
11	2.4 GHz Bluetooth (TXBF) + NB U-NII	Yes
12	2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF)	Yes
13	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
14	2.4 GHz Wi-Fi + NB U-NII	Yes
15	2.4 GHz Wi-Fi + NB U-NII (TXBF)	Yes
16	2.4 GHz Wi-Fi MIMO + NB U-NII	Yes
17	2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF)	Yes
18	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth	Yes
19	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF)	Yes
20	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth	Yes
21	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF)	Yes
22	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth*	Yes
23	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth*	Yes
24	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII*	Yes
25	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF)*	Yes
26	2.4 GHz Wi-Fi + 802.15.4**	Yes
27	5/6 GHz Wi-Fi + 802.15.4	Yes
28	5/6 GHz Wi-Fi MIMO + 802.15.4	Yes
29	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4**	Yes
30	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4**	Yes
31	802.15.4 + NB U-NII	Yes
32	802.15.4 + NB U-NII (TXBF)	Yes
33	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII**	Yes
34	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF)**	Yes

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1. *2.4GHz WIFI and 2.4 GHz Bluetooth can transmit simultaneously on different antennas.
2. **2.4 GHz WIFI and 802.15.4 can transmit simultaneously on different antennas.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. This device supports VoWIFI.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna WF7a, WF2a and WF7b. Additional testing for U-NII-1 SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/802.15.4/NB UNII 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. The worst case variant was used for evaluating SAR compliance.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than those 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/be 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 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 ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

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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 (6-8 GHz)
- April 2019 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.

1.9 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 Test Report	1C2509100081-02

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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]

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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 completed to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

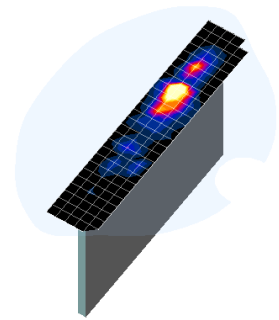


Figure 3-1
Sample SAR Area
Scan

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

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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. Body exposure for all §2.1093-Portable devices (including tablets) must be demonstrated at distances not to exceed 5 mm. This separation distance of 5 mm between the tablet and the phantom was used for evaluating SAR compliance. 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.

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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 people 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 people in its vicinity.

5.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by people 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 people 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.

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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/m^2 or mW/cm^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 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/cm^2 is 10 W/m^2

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6 FCC MEASUREMENT PROCEDURES

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

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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.

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

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(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 D04v01 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.

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7 RF CONDUCTED POWERS

7.1 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-1
2.4 GHz WLAN Maximum Average RF Power – Antenna WF7b

2.4GHz WIFI (20MHz 802.11b SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2422	3	Average	21.16
2437	6		21.23
2457	10		21.18
2.4GHz WIFI (20MHz 802.11g SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2432	5	Average	21.50
2437	6		21.42
2442	7		21.47
2.4GHz WIFI (20MHz 802.11n SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2432	5	Average	21.43
2437	6		21.38
2442	7		21.46
2.4GHz WIFI (20MHz 802.11ac SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2432	5	Average	21.45
2437	6		21.49
2442	7		21.43
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2432	5	Average	20.97
2437	6		20.91
2442	7		21.01

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Table 7-2
2.4 GHz WLAN Maximum Average RF Power – Antenna WF2b

2.4GHz WIFI (20MHz 802.11b SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	21.02
2437	6		21.03
2462	11		20.72
2.4GHz WIFI (20MHz 802.11g SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.46
2437	6		20.95
2462	11		16.43
2.4GHz WIFI (20MHz 802.11n SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.43
2437	6		20.96
2462	11		16.48
2.4GHz WIFI (20MHz 802.11ac SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.41
2437	6		20.88
2462	11		16.40
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.45
2437	6		20.91
2462	11		16.12

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7.2 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-3
5 GHz WLAN Maximum Average RF Power – Antenna WF7a

5GHz WIFI (40MHz 802.11n SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.32
	5230	46	18.79
UNII-2A	5270	54	19.03
	5310	62	16.59
UNII-3	5755	151	17.29
	5795	159	17.40
5GHz WIFI (80MHz 802.11ac SISO Ant WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.11
	5610	122	17.01
	5690	138	17.70
5GHz WIFI (40MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.33
	5230	46	18.84
UNII-2A	5270	54	19.03
	5310	62	16.54
UNII-3	5755	151	17.19
	5795	159	17.32
5GHz WIFI (40MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.41
	5230	46	18.81
UNII-2A	5270	54	19.05
	5310	62	16.36
UNII-3	5755	151	17.21
	5795	159	17.42
5GHz WIFI (80MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.08
	5610	122	16.86
	5690	138	17.02

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Table 7-4
5 GHz WLAN Maximum Average RF Power – Antenna WF2a

5GHz WIFI (40MHz 802.11n SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.51
	5230	46	19.91
UNII-2A	5270	54	19.87
	5310	62	16.51
5GHz WIFI (80MHz 802.11ac SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.21
	5610	122	18.45
	5690	138	18.29
UNII-3	5775	155	18.25
5GHz WIFI (40MHz 802.11ac SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.54
	5230	46	19.85
UNII-2A	5270	54	19.97
	5310	62	16.45
5GHz WIFI (40MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.59
	5230	46	18.71
UNII-2A	5270	54	19.93
	5310	62	16.39
5GHz WIFI (80MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.25
	5610	122	18.53
	5690	138	18.32
UNII-3	5775	155	18.12

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Table 7-5
5 GHz WLAN Maximum Average RF Power – Antenna WF7b

5GHz WIFI (40MHz 802.11n SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.27
	5230	46	18.66
UNII-2A	5270	54	18.76
	5310	62	16.47
UNII-3	5755	151	18.95
	5795	159	19.01
5GHz WIFI (80MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.24
	5610	122	17.23
	5690	138	18.95
5GHz WIFI (40MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.32
	5230	46	18.62
UNII-2A	5270	54	18.65
	5310	62	16.28
UNII-3	5755	151	18.78
	5795	159	18.83
5GHz WIFI (40MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.37
	5230	46	18.74
UNII-2A	5270	54	18.69
	5310	62	16.23
UNII-3	5755	151	18.93
	5795	159	18.97
5GHz WIFI (80MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.49
	5610	122	17.27
	5690	138	18.59

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7.3 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-6
6 GHz WLAN Maximum Average RF Power – Antenna WF7a

6GHz WIFI (160MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.08
	6185	47	11.32
	6345	79	13.00
UNII-6	6505	111	11.30
UNII-7	6665	143	11.27
UNII-8	6985	207	11.52

Table 7-7
6 GHz WLAN Maximum Average RF Power – Antenna WF2a

6GHz WIFI (160MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.20
	6185	47	12.30
	6345	79	14.37
	6505	111	12.39
UNII-7	6665	143	12.21
	6985	207	11.77

Table 7-8
6 GHz WLAN Maximum Average RF Power – Antenna WF7b

6GHz WIFI (160MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	15.08
	6185	47	14.53
	6345	79	12.58
UNII-6	6505	111	14.22
UNII-7	6665	143	16.52
UNII-8	6985	207	14.22

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7.4 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.

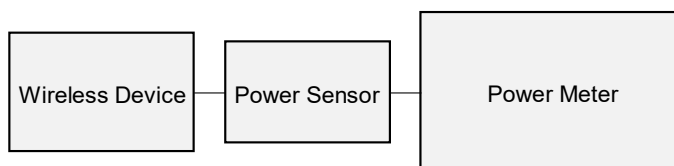


Figure 7-1
Power Measurement Setup

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7.5 Bluetooth Maximum Conducted Powers

Table 7-9
Bluetooth LE Average RF Power – Antenna WF7b

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.64	92.045
2440	GFSK	1.0	19	19.59	90.991
2480	GFSK	1.0	39	19.54	89.950

Table 7-10
Bluetooth LE Average RF Power – Antenna WF2b

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.85	96.605
2440	GFSK	1.0	19	19.66	92.470
2480	GFSK	1.0	39	19.04	80.168

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7.6 Bluetooth Duty Cycle Plots

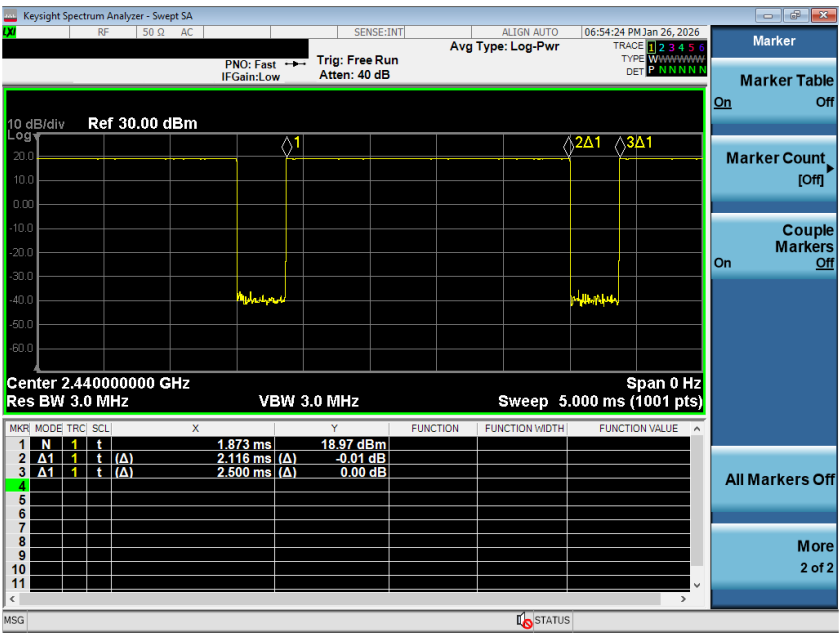


Figure 7-2
Bluetooth LE1M Transmission Plot – Antenna WF7b/WF2b

Equation 7-1
Bluetooth LE1M Duty Cycle Calculation – Antenna WF7b/WF2b

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.166\ ms}{2.500\ ms} * 100\% = 84.64\%$$

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7.7 802.15.4 Maximum Conducted Powers

Table 7-11
802.15.4 Average RF Power – Antenna WF7b

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	19.21	83.368
2440	O-QPSK	0.25	18	19.19	82.985
2475	O-QPSK	0.25	25	19.36	86.298

Table 7-12
802.15.4 Average RF Power – Antenna WF2b

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	19.44	87.902
2440	O-QPSK	0.25	18	19.45	88.105
2475	O-QPSK	0.25	25	19.48	88.716

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7.8 802.15.4 Duty Cycle Plots

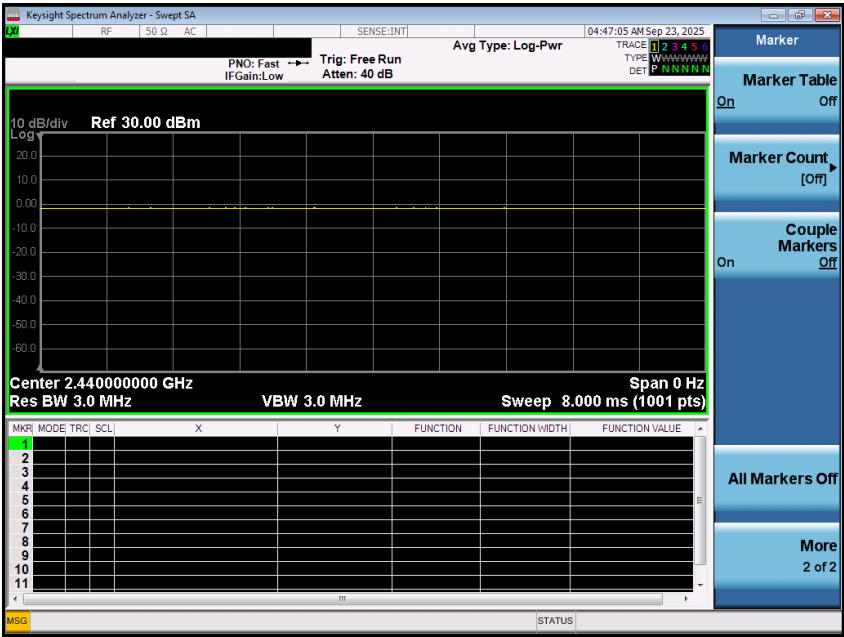


Figure 7-3
802.15.4 Transmission Plot – Antenna WF7b/WF2b

Equation 7-2
802.15.4 Duty Cycle Calculation – Antenna WF7b/WF2b

Duty Cycle = 100%

7.9 Notes for Bluetooth/802.15.4

- Full power measurements were performed per FCC KDB Procedures 248227.

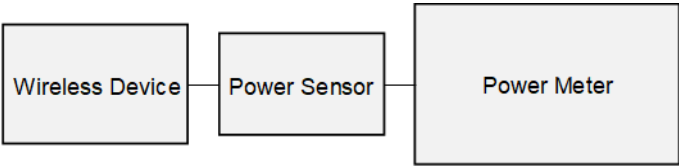


Figure 7-4
Power Measurement Setup

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7.10 NB UNII Maximum Conducted Powers

Table 7-13
NB UNII Average RF Power – Antenna WF7a

Type	Band	Frequency	Frequency	Average
HDR8	U-NII 1	5162	Low	13.04
		5204	Mid	13.05
		5245	High	12.93
BDR	U-NII 3	5733	Low	19.05
		5789	Mid	18.88
		5844	High	18.94
HDRPL8	U-NII 5	6109	Low	0.35
		6186	Low-Mid	0.18
		6263	Mid	0.25
		6340	Mid-High	0.2
		6417	High	-0.10

Table 7-14
NB UNII Average RF Power – Antenna WF2a

Type	Band	Frequency	Frequency	Average
HDR8	U-NII 1	5162	Low	12.93
		5204	Mid	12.91
		5245	High	12.90
BDR	U-NII 3	5733	Low	18.27
		5789	Mid	18.28
		5844	High	18.31
HDRPL8	U-NII 5	6106	Low	0.02
		6186	Low-Mid	0.01
		6263	Mid	0.31
		6342	Mid-High	0.2
		6420	High	-0.22

Table 7-15
NB UNII Average RF Power – Antenna WF7b

Type	Band	Frequency	Frequency	Average
HDRPL8	U-NII 1	5162	Low	13.48
		5204	Mid	13.59
		5245	High	13.41
BDR	U-NII 3	5733	Low	18.95
		5789	Mid	18.94
		5844	High	18.92
HDRPL8	U-NII 5	6109	Low	-0.58
		6186	Low-Mid	0.1
		6263	Mid	0.2
		6340	Mid-High	-0.1
		6417	High	-0.26

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7.11 NB UNII Duty Cycle Plots

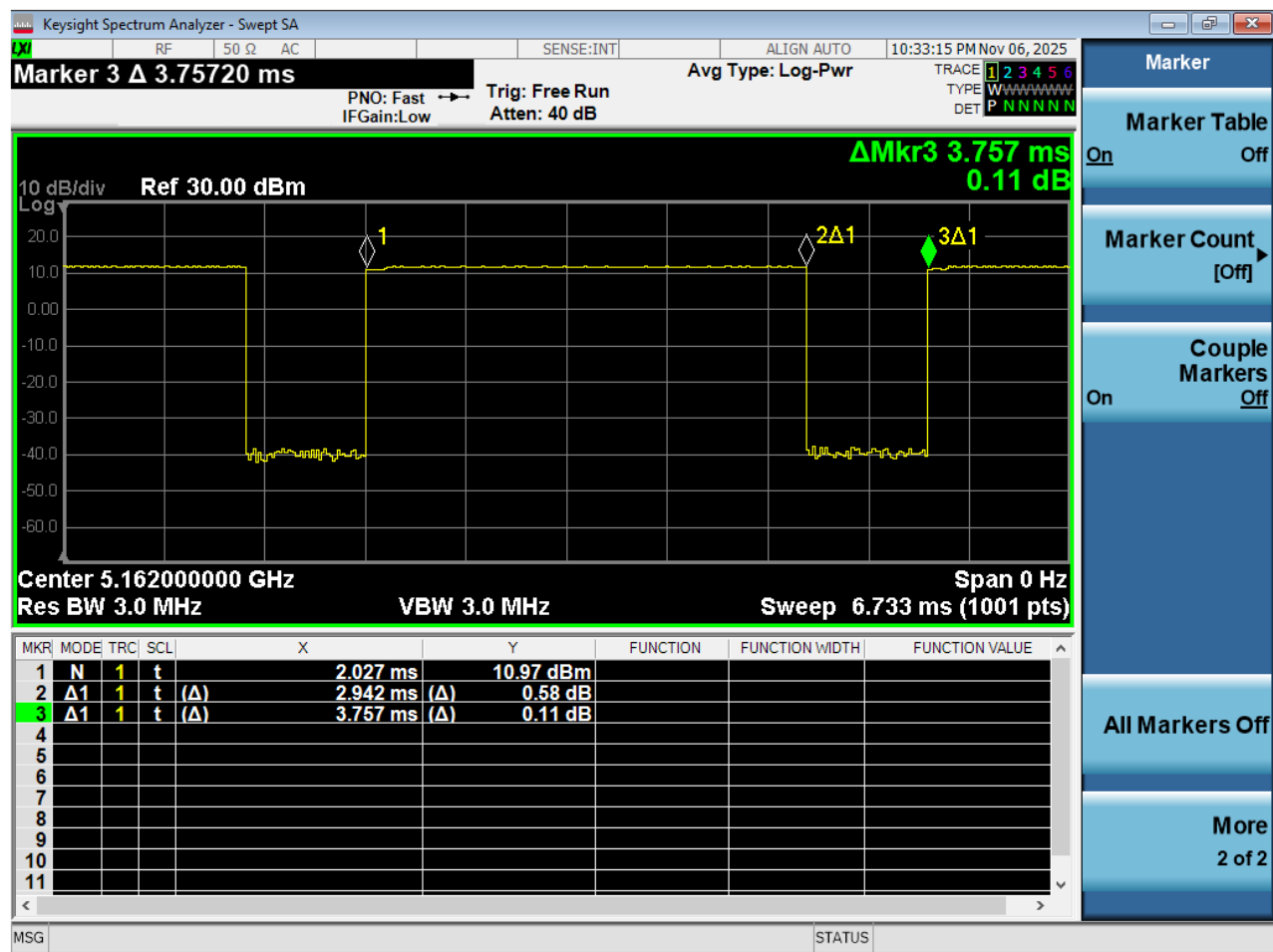


Figure 7-5
NB UNII 1 HDR8 Transmission Plot – Antenna WF7a

Equation 7-3
NB UNII 1 HDR8 Duty Cycle Calculation – Antenna WF7a

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.942\ ms}{3.757\ ms} * 100\% = 78.31\%$$

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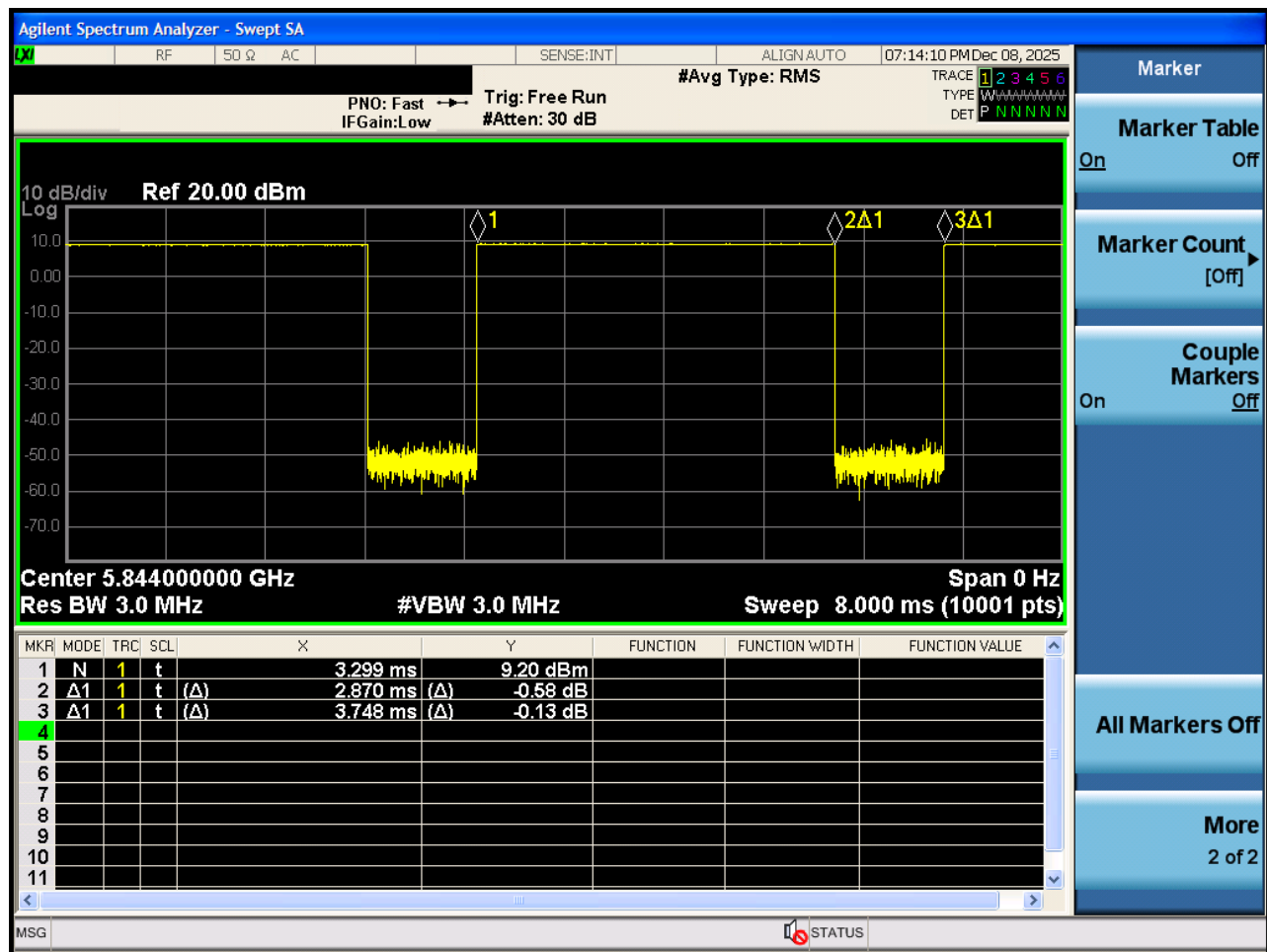


Figure 7-6
NB UNII 3 BDR Transmission Plot – Antenna WF7a

Equation 7-4
NB UNII 3 BDR Duty Cycle Calculation – Antenna WF7a

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.870 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.57\%$$

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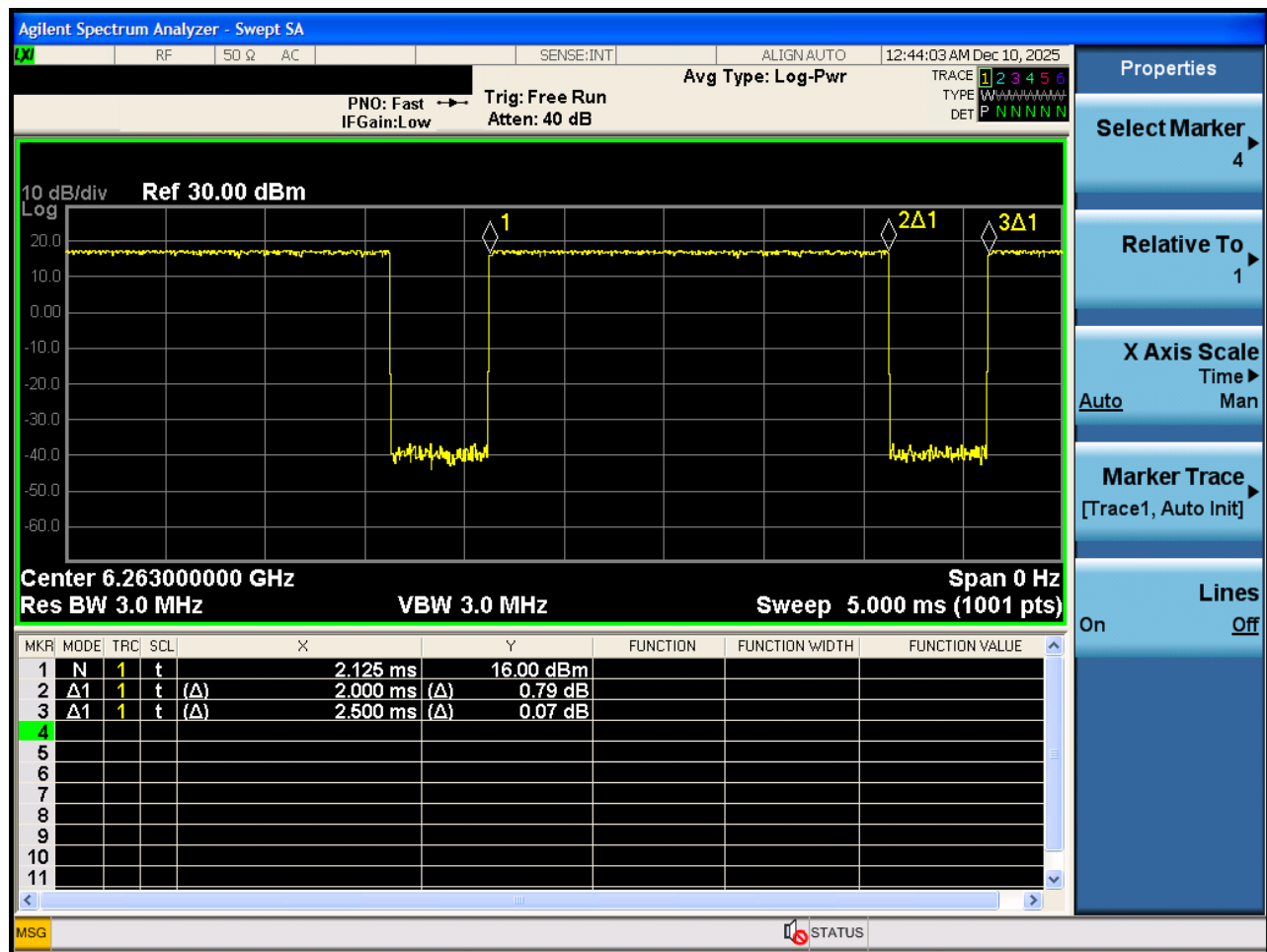


Figure 7-7
NB UNII 5 HDRPL8 Transmission Plot – Antenna WF7a

Equation 7-5
NB UNII 5 HDRPL8 Duty Cycle Calculation – Antenna WF7a

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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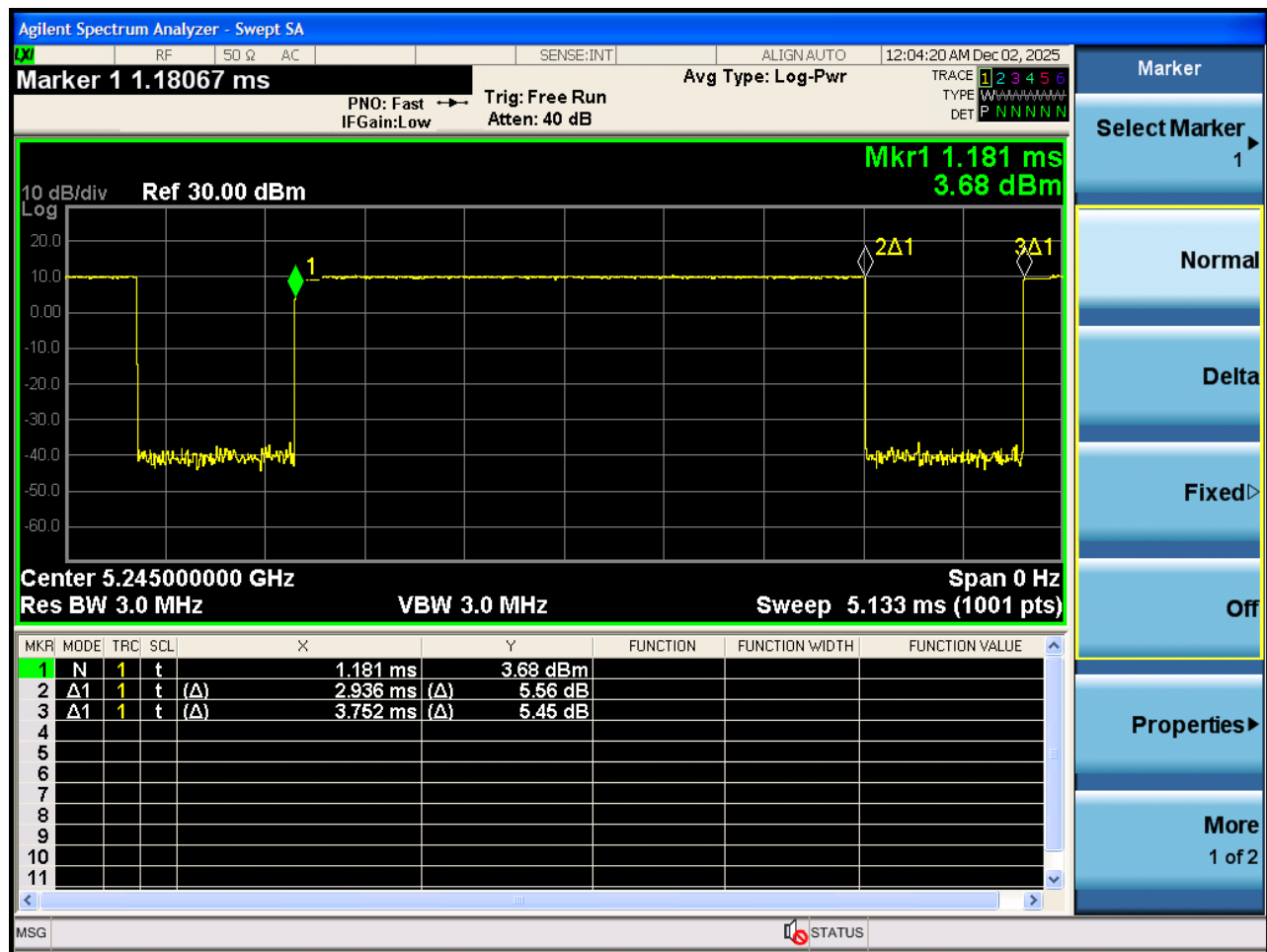


Figure 7-8
NB UNII 1 HDR8 Transmission Plot – Antenna WF2a

Equation 7-6
NB UNII 1 HDR8 Duty Cycle Calculation – Antenna WF2a

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.936 \text{ ms}}{3.752 \text{ ms}} * 100\% = 78.25\%$$

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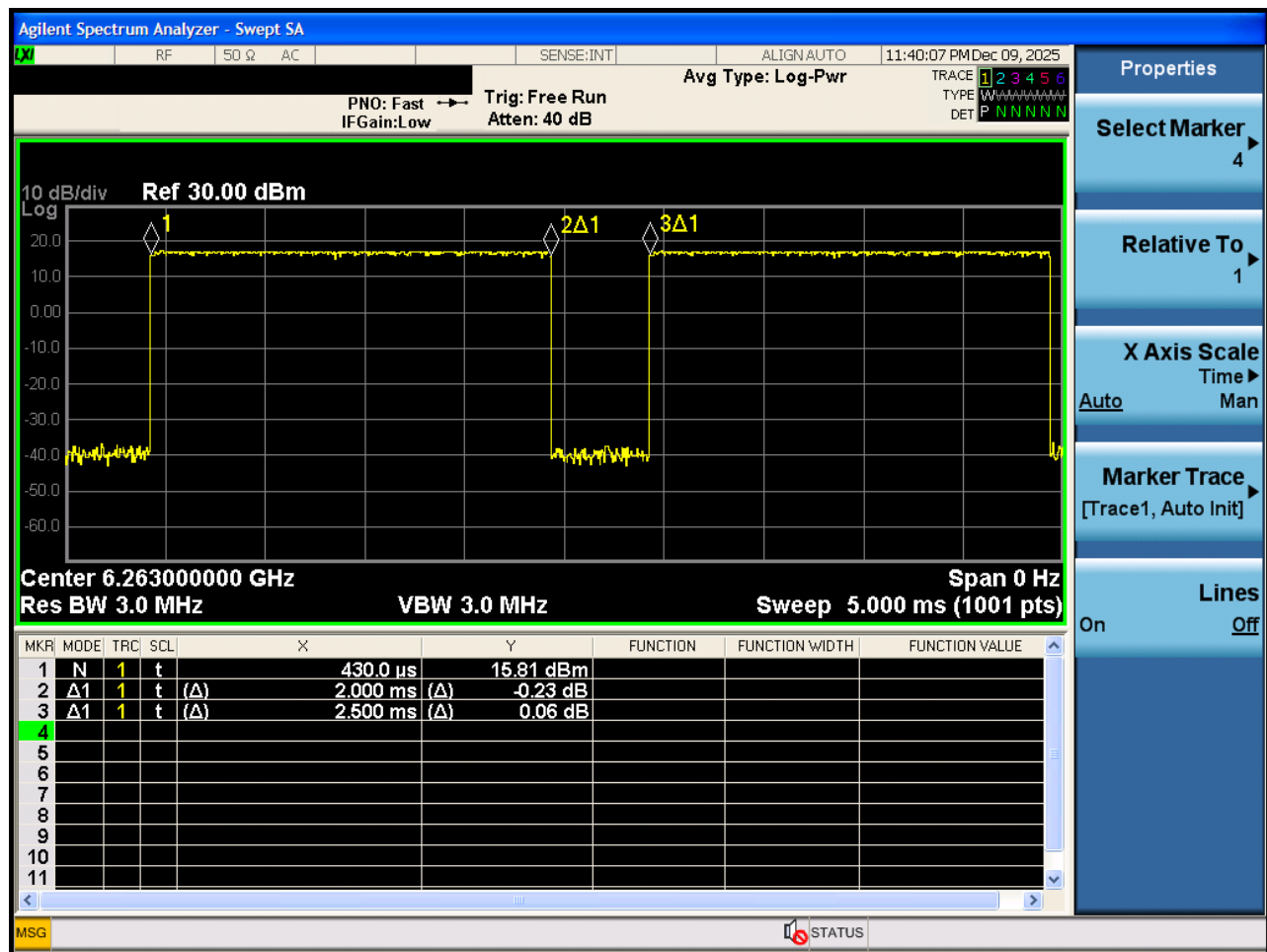


Figure 7-10
NB UNII 5 BDR Transmission Plot – Antenna WF2a

Equation 7-8
NB UNII 5 BDR Duty Cycle Calculation – Antenna WF2a

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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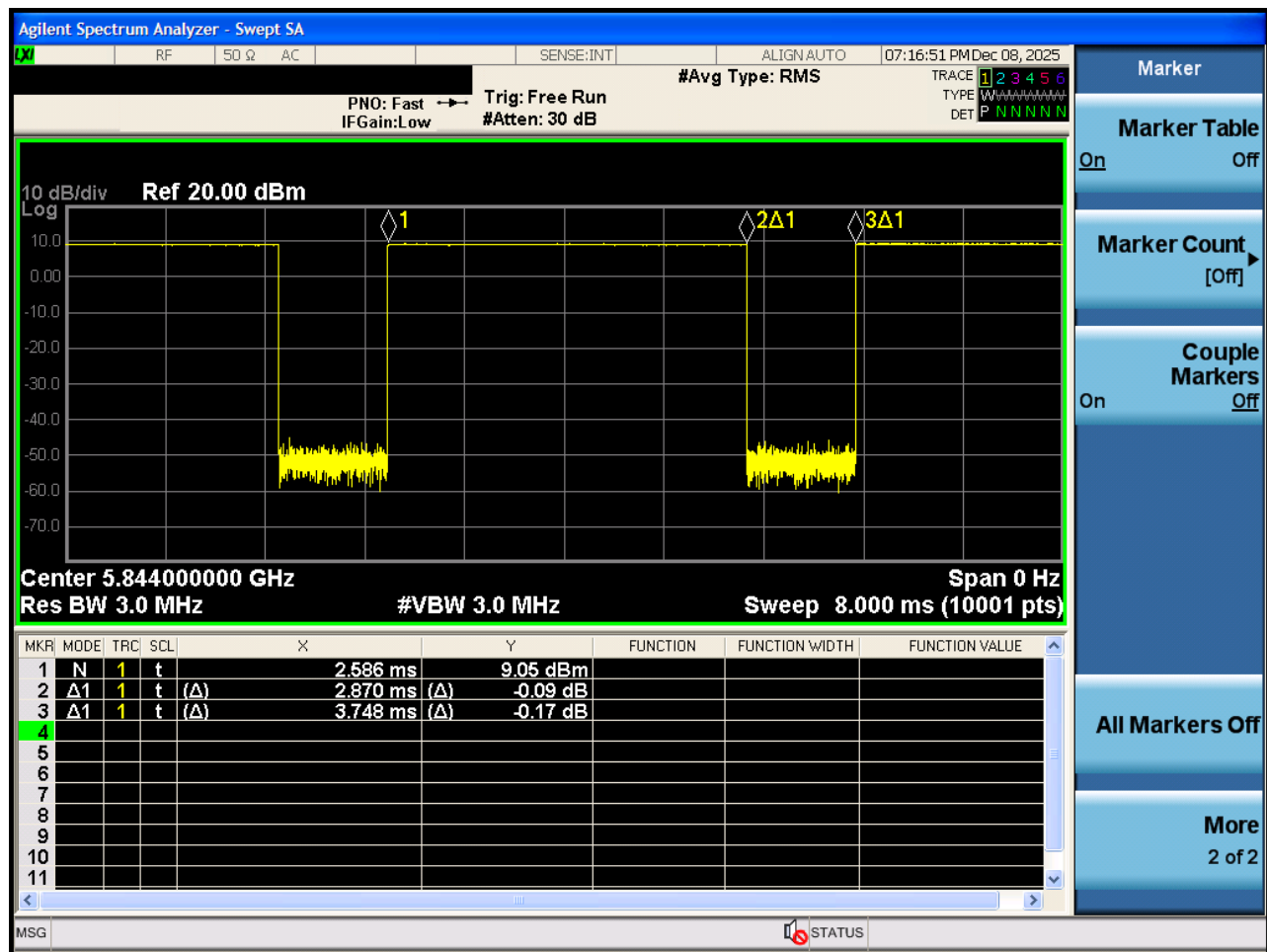


Figure 7-12
NB UNII 3 BDR Transmission Plot – Antenna WF7b

Equation 7-10
NB UNII 3 BDR Duty Cycle Calculation – Antenna WF7b

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.870 \text{ ms}}{3.748 \text{ ms}} * 100\% = 76.57\%$$

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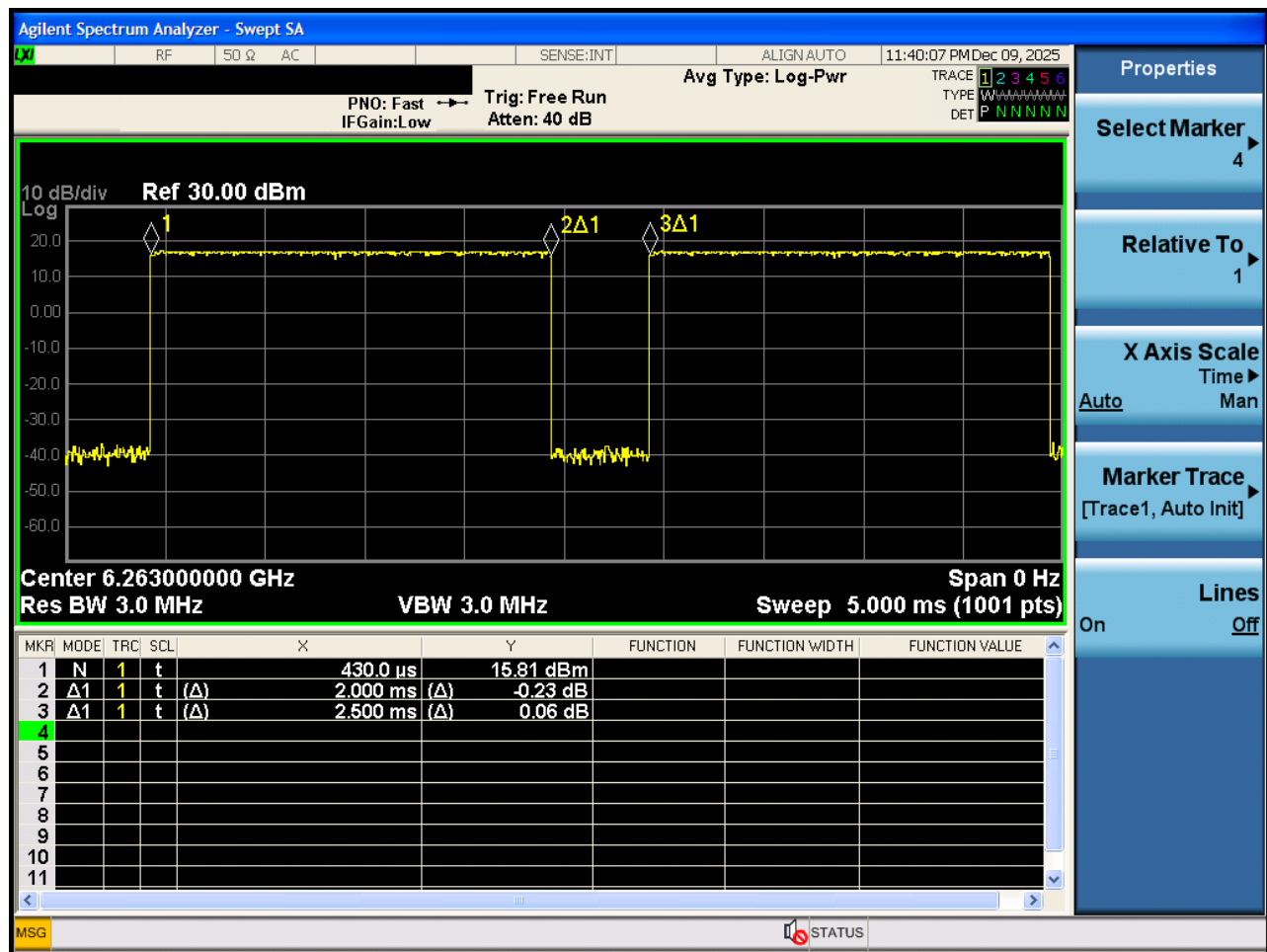


Figure 7-13
NB UNII 5 HDRPL8 Transmission Plot – Antenna WF7b

Equation 7-11
NB UNII 5 HDRPL8 Duty Cycle Calculation – Antenna WF7b

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

7.12 Notes for NB UNII

- Full power measurements were performed per FCC KDB Procedures 248227.

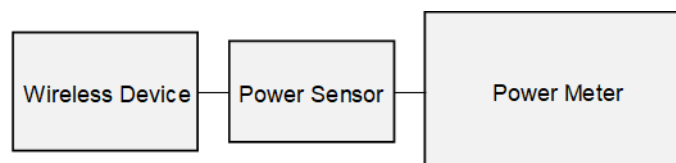


Figure 7-14

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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
12/1/2025	30 Head	23.9	12	0.730	56.338	0.750	55.000	-2.67%	2.43%
			13	0.730	55.950	0.750	55.000	-2.67%	1.73%
			14	0.730	55.483	0.750	55.000	-2.67%	0.88%
11/13/2025	2450 Head	24.8	2300	1.646	39.025	1.670	39.500	-1.44%	-1.20%
			2310	1.658	38.983	1.679	39.480	-1.25%	-1.26%
			2320	1.669	38.946	1.687	39.460	-1.07%	-1.30%
			2400	1.758	38.645	1.756	39.289	0.11%	-1.64%
			2450	1.813	38.466	1.800	39.200	0.72%	-1.87%
			2480	1.845	38.350	1.833	39.162	0.65%	-2.07%
			2500	1.866	38.264	1.855	39.136	0.59%	-2.23%
			2510	1.878	38.224	1.866	39.123	0.64%	-2.30%
			2535	1.909	38.146	1.893	39.092	0.85%	-2.42%
			2550	1.926	38.099	1.909	39.073	0.89%	-2.49%
			2560	1.936	38.062	1.920	39.060	0.83%	-2.56%
			2600	1.980	37.875	1.964	39.009	0.81%	-2.91%
			2650	2.040	37.709	2.018	38.945	1.09%	-3.17%
			2680	2.073	37.579	2.051	38.907	1.07%	-3.41%
			2700	2.096	37.494	2.073	38.882	1.11%	-3.57%
11/19/2025	2450 Head	24.9	2300	1.637	39.308	1.670	39.500	-1.98%	-0.49%
			2310	1.648	39.268	1.679	39.480	-1.85%	-0.54%
			2320	1.660	39.234	1.687	39.460	-1.60%	-0.57%
			2400	1.750	38.936	1.756	39.289	-0.34%	-0.90%
			2450	1.805	38.750	1.800	39.200	0.28%	-1.15%
			2480	1.837	38.622	1.833	39.162	0.22%	-1.38%
			2500	1.860	38.538	1.855	39.136	0.27%	-1.53%
			2510	1.871	38.500	1.866	39.123	0.27%	-1.59%
			2535	1.900	38.420	1.893	39.092	0.37%	-1.72%
			2550	1.918	38.366	1.909	39.073	0.47%	-1.81%
			2560	1.929	38.324	1.920	39.060	0.47%	-1.88%
			2600	1.973	38.150	1.964	39.009	0.46%	-2.20%
			2650	2.031	37.989	2.018	38.945	0.64%	-2.45%
			2680	2.066	37.860	2.051	38.907	0.73%	-2.69%
			2700	2.088	37.779	2.073	38.882	0.72%	-2.84%
11/24/2025	2450 Head	24.6	2300	1.626	39.038	1.670	39.500	-2.63%	-1.17%
			2310	1.637	39.009	1.679	39.480	-2.50%	-1.19%
			2320	1.649	38.981	1.687	39.460	-2.25%	-1.21%
			2400	1.736	38.666	1.756	39.289	-1.14%	-1.59%
			2450	1.791	38.493	1.800	39.200	-0.50%	-1.80%
			2480	1.824	38.355	1.833	39.162	-0.49%	-2.06%
			2500	1.849	38.276	1.855	39.136	-0.32%	-2.20%
			2510	1.862	38.241	1.866	39.123	-0.21%	-2.25%
			2535	1.891	38.160	1.893	39.092	-0.11%	-2.38%
			2550	1.906	38.111	1.909	39.073	-0.16%	-2.46%
			2560	1.916	38.075	1.920	39.060	-0.21%	-2.52%
			2600	1.960	37.892	1.964	39.009	-0.20%	-2.86%
			2650	2.021	37.715	2.018	38.945	0.15%	-3.16%
			2680	2.050	37.596	2.051	38.907	-0.05%	-3.37%
			2700	2.072	37.494	2.073	38.882	-0.05%	-3.57%

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10/8/2025	5200-5800 Head	21.4	5150	4.543	36.071	4.608	36.050	-1.41%	0.06%
			5160	4.553	36.060	4.618	36.040	-1.41%	0.06%
			5170	4.564	36.041	4.629	36.030	-1.40%	0.03%
			5180	4.575	36.016	4.635	36.009	-1.29%	0.02%
			5190	4.588	35.990	4.645	35.998	-1.23%	-0.02%
			5200	4.599	35.977	4.655	35.986	-1.20%	-0.03%
			5210	4.609	35.966	4.666	35.975	-1.22%	-0.03%
			5220	4.617	35.948	4.676	35.963	-1.26%	-0.04%
			5240	4.641	35.908	4.696	35.940	-1.17%	-0.09%
			5250	4.654	35.896	4.706	35.929	-1.10%	-0.09%
			5260	4.665	35.884	4.717	35.917	-1.10%	-0.09%
			5270	4.675	35.868	4.727	35.906	-1.10%	-0.11%
			5280	4.685	35.847	4.737	35.894	-1.10%	-0.13%
			5290	4.697	35.825	4.748	35.883	-1.07%	-0.16%
			5300	4.710	35.807	4.758	35.871	-1.01%	-0.18%
			5310	4.720	35.793	4.768	35.860	-1.01%	-0.19%
			5320	4.729	35.775	4.778	35.849	-1.03%	-0.21%
			5500	4.927	35.493	4.963	35.643	-0.73%	-0.42%
			5510	4.937	35.485	4.973	35.632	-0.72%	-0.41%
			5520	4.946	35.468	4.983	35.620	-0.74%	-0.43%
			5530	4.956	35.438	4.994	35.609	-0.76%	-0.48%
			5540	4.969	35.417	5.004	35.597	-0.70%	-0.51%
			5550	4.980	35.404	5.014	35.586	-0.68%	-0.51%
			5560	4.992	35.392	5.024	35.574	-0.64%	-0.51%
			5580	5.017	35.362	5.045	35.551	-0.56%	-0.53%
			5600	5.042	35.327	5.065	35.529	-0.45%	-0.57%
			5610	5.054	35.315	5.076	35.518	-0.43%	-0.57%
			5620	5.065	35.297	5.086	35.506	-0.41%	-0.59%
			5640	5.086	35.248	5.106	35.483	-0.39%	-0.66%
			5660	5.107	35.226	5.127	35.460	-0.39%	-0.66%
			5670	5.120	35.211	5.137	35.449	-0.33%	-0.67%
			5680	5.132	35.194	5.147	35.437	-0.29%	-0.69%
			5690	5.144	35.176	5.158	35.426	-0.27%	-0.71%
			5700	5.156	35.157	5.168	35.414	-0.23%	-0.73%
			5710	5.170	35.142	5.178	35.403	-0.15%	-0.74%
			5720	5.182	35.127	5.188	35.391	-0.12%	-0.75%
			5745	5.200	35.082	5.214	35.363	-0.27%	-0.79%
			5750	5.205	35.073	5.219	35.357	-0.27%	-0.80%
			5755	5.210	35.062	5.224	35.351	-0.27%	-0.82%
			5765	5.222	35.048	5.234	35.340	-0.23%	-0.83%
			5775	5.234	35.035	5.245	35.329	-0.21%	-0.83%
			5785	5.248	35.019	5.255	35.317	-0.13%	-0.84%
			5795	5.263	34.997	5.265	35.305	-0.04%	-0.87%
			5800	5.270	34.989	5.270	35.300	0.00%	-0.88%
			5805	5.277	34.979	5.275	35.294	0.04%	-0.89%
			5825	5.299	34.943	5.296	35.271	0.06%	-0.93%
			5835	5.309	34.924	5.305	35.230	0.08%	-0.87%
			5845	5.318	34.908	5.315	35.210	0.06%	-0.86%
			5850	5.322	34.899	5.320	35.200	0.04%	-0.86%
			5855	5.326	34.887	5.325	35.197	0.02%	-0.88%
			5865	5.335	34.868	5.336	35.190	-0.02%	-0.92%
			5875	5.346	34.857	5.347	35.183	-0.02%	-0.93%
			5885	5.361	34.847	5.357	35.177	0.07%	-0.94%
			5905	5.388	34.812	5.379	35.163	0.17%	-1.00%

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11/2/2025	5200-5800 Head	19.0	5150	4.389	35.496	4.608	36.050	-4.75%	-1.54%
			5160	4.399	35.478	4.618	36.040	-4.74%	-1.56%
			5170	4.407	35.464	4.629	36.030	-4.80%	-1.57%
			5180	4.417	35.439	4.635	36.009	-4.70%	-1.58%
			5190	4.429	35.418	4.645	35.998	-4.65%	-1.61%
			5200	4.439	35.397	4.655	35.986	-4.64%	-1.64%
			5210	4.446	35.377	4.666	35.975	-4.71%	-1.66%
			5220	4.454	35.352	4.676	35.963	-4.75%	-1.70%
			5240	4.483	35.316	4.696	35.940	-4.54%	-1.74%
			5250	4.497	35.306	4.706	35.929	-4.44%	-1.73%
			5260	4.508	35.297	4.717	35.917	-4.43%	-1.73%
			5270	4.517	35.282	4.727	35.906	-4.44%	-1.74%
			5280	4.526	35.262	4.737	35.894	-4.45%	-1.76%
			5290	4.537	35.239	4.748	35.883	-4.44%	-1.79%
			5300	4.548	35.214	4.758	35.871	-4.41%	-1.83%
			5310	4.557	35.192	4.768	35.860	-4.43%	-1.86%
			5320	4.564	35.174	4.778	35.849	-4.48%	-1.88%
			5500	4.764	34.873	4.963	35.643	-4.01%	-2.16%
			5510	4.774	34.857	4.973	35.632	-4.00%	-2.18%
			5520	4.782	34.840	4.983	35.620	-4.03%	-2.19%
			5530	4.792	34.820	4.994	35.609	-4.04%	-2.22%
			5540	4.803	34.798	5.004	35.597	-4.02%	-2.24%
			5550	4.815	34.777	5.014	35.586	-3.97%	-2.27%
			5560	4.826	34.763	5.024	35.574	-3.94%	-2.28%
			5580	4.849	34.741	5.045	35.551	-3.89%	-2.28%
			5600	4.875	34.709	5.065	35.529	-3.75%	-2.31%
			5610	4.884	34.700	5.076	35.518	-3.78%	-2.30%
			5620	4.891	34.684	5.086	35.506	-3.83%	-2.32%
			5640	4.909	34.623	5.106	35.483	-3.86%	-2.42%
			5660	4.936	34.581	5.127	35.460	-3.73%	-2.48%
			5670	4.952	34.573	5.137	35.449	-3.60%	-2.47%
			5680	4.966	34.557	5.147	35.437	-3.52%	-2.48%
			5690	4.978	34.537	5.158	35.426	-3.49%	-2.51%
			5700	4.989	34.522	5.168	35.414	-3.46%	-2.52%
			5710	5.000	34.515	5.178	35.403	-3.44%	-2.51%
			5720	5.008	34.507	5.188	35.391	-3.47%	-2.50%
			5745	5.028	34.437	5.214	35.363	-3.57%	-2.62%
			5750	5.032	34.424	5.219	35.357	-3.58%	-2.64%
			5755	5.037	34.414	5.224	35.351	-3.58%	-2.65%
			5765	5.050	34.399	5.234	35.340	-3.52%	-2.66%
			5775	5.064	34.389	5.245	35.329	-3.45%	-2.66%
			5785	5.078	34.374	5.255	35.317	-3.37%	-2.67%
			5795	5.091	34.368	5.265	35.305	-3.30%	-2.65%
			5800	5.098	34.359	5.270	35.300	-3.26%	-2.67%
			5805	5.105	34.354	5.275	35.294	-3.22%	-2.66%
			5825	5.126	34.329	5.296	35.271	-3.21%	-2.67%
			5835	5.135	34.306	5.305	35.230	-3.20%	-2.62%
			5845	5.143	34.283	5.315	35.210	-3.24%	-2.63%
			5850	5.146	34.273	5.320	35.200	-3.27%	-2.63%
			5855	5.148	34.262	5.325	35.197	-3.32%	-2.66%
			5865	5.157	34.239	5.336	35.190	-3.35%	-2.70%
			5875	5.169	34.233	5.347	35.183	-3.33%	-2.70%
			5885	5.186	34.218	5.357	35.177	-3.19%	-2.73%
			5905	5.216	34.189	5.379	35.163	-3.03%	-2.77%

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11/3/2025	6000 Head	20.2	5935	5.202	36.580	5.411	35.143	-3.86%	4.09%
			5970	5.238	36.516	5.448	35.120	-3.85%	3.97%
			5985	5.258	36.495	5.464	35.110	-3.77%	3.94%
			6000	5.279	36.477	5.480	35.100	-3.67%	3.92%
			6025	5.317	36.429	5.510	35.070	-3.50%	3.88%
			6065	5.361	36.357	5.557	35.022	-3.53%	3.81%
			6075	5.370	36.345	5.569	35.010	-3.57%	3.81%
			6085	5.381	36.333	5.580	34.998	-3.57%	3.81%
			6185	5.510	36.120	5.698	34.878	-3.30%	3.56%
			6275	5.629	35.988	5.805	34.770	-3.03%	3.50%
			6285	5.637	35.974	5.816	34.758	-3.08%	3.50%
			6305	5.657	35.942	5.840	34.734	-3.13%	3.48%
			6345	5.713	35.878	5.887	34.686	-2.96%	3.44%
			6475	5.876	35.676	6.041	34.530	-2.73%	3.32%
			6485	5.883	35.660	6.052	34.518	-2.79%	3.31%
			6500	5.893	35.639	6.070	34.500	-2.92%	3.30%
			6505	5.897	35.633	6.076	34.494	-2.95%	3.30%
			6545	5.948	35.555	6.122	34.446	-2.84%	3.22%
			6665	6.104	35.359	6.265	34.302	-2.57%	3.08%
			6675	6.119	35.345	6.273	34.290	-2.45%	3.08%
			6685	6.128	35.328	6.285	34.278	-2.50%	3.06%
			6715	6.148	35.285	6.319	34.242	-2.71%	3.05%
			6785	6.237	35.149	6.400	34.158	-2.55%	2.90%
			6825	6.280	35.100	6.447	34.110	-2.59%	2.90%
			6985	6.469	34.835	6.633	33.918	-2.47%	2.70%
			6995	6.480	34.814	6.644	33.906	-2.47%	2.68%
			7000	6.487	34.803	6.650	33.900	-2.45%	2.66%
			7005	6.493	34.794	6.656	33.894	-2.45%	2.66%
			7025	6.514	34.776	6.680	33.870	-2.49%	2.67%
			7500	7.087	34.014	7.240	33.300	-2.11%	2.14%
			7980	7.660	33.231	7.816	32.724	-2.00%	1.55%

The above measured tissue parameters were used in 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.

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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 the 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)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	12/01/2025	21.9	22.1	1.00	1004	7782	1646	0.547	0.585	0.547	-6.50%	0.333	0.358	0.333	-6.98%				
AM16	2450	HEAD	11/13/2025	22.3	23.5	0.10	750	7532	501	5.180	53.300	51.800	-2.81%	2.340	25.100	23.400	-6.77%				
AM14	2450	HEAD	11/19/2025	23.0	23.0	0.10	750	7782	1646	5.220	53.300	52.200	-2.06%	2.350	25.100	23.500	-6.37%				
AM16	2450	HEAD	11/24/2025	22.5	22.8	0.10	750	7532	501	5.310	53.300	53.100	-0.38%	2.370	25.100	23.700	-5.58%				
AM9	5250	HEAD	10/08/2025	23.0	21.4	0.05	1163	7668	1681	4.200	78.800	84.000	6.60%	1.200	22.300	24.000	7.62%				
AM9	5250	HEAD	11/02/2025	19.2	19.0	0.05	1066	7668	1681	3.750	77.900	75.000	-3.72%	1.080	22.500	21.600	-4.00%				
AM9	5600	HEAD	10/08/2025	23.0	21.4	0.05	1163	7668	1681	4.290	80.900	85.800	6.06%	1.220	23.000	24.400	6.09%				
AM9	5600	HEAD	11/02/2025	19.2	19.0	0.05	1066	7668	1681	3.870	81.800	77.400	-5.38%	1.130	23.700	22.800	-4.64%				
AM9	5750	HEAD	10/08/2025	23.0	21.4	0.05	1163	7668	1681	4.180	78.100	83.600	7.04%	1.190	22.100	23.800	7.69%				
AM9	5750	HEAD	11/02/2025	19.2	19.0	0.05	1066	7668	1681	3.980	80.700	78.000	-3.35%	1.130	23.200	22.500	-2.99%				
AM9	5850	HEAD	10/08/2025	23.0	21.4	0.05	1163	7668	1681	4.280	79.800	85.600	7.27%	1.200	22.500	24.000	6.67%				
AM9	5850	HEAD	11/02/2025	19.2	19.0	0.05	1066	7668	1681	3.740	77.400	74.800	-3.36%	1.080	22.200	21.600	-2.70%				
AM2	6500	HEAD	11/03/2025	22.1	20.7	0.03	1018	3837	793	7.370	292.000	294.800	0.96%	1.420	53.900	56.800	5.38%	34.4	1310	1376	5.04%

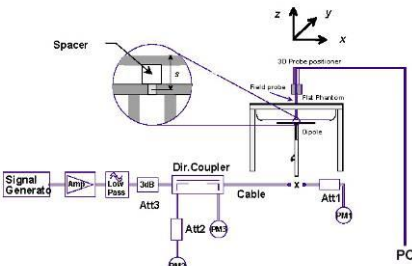


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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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.

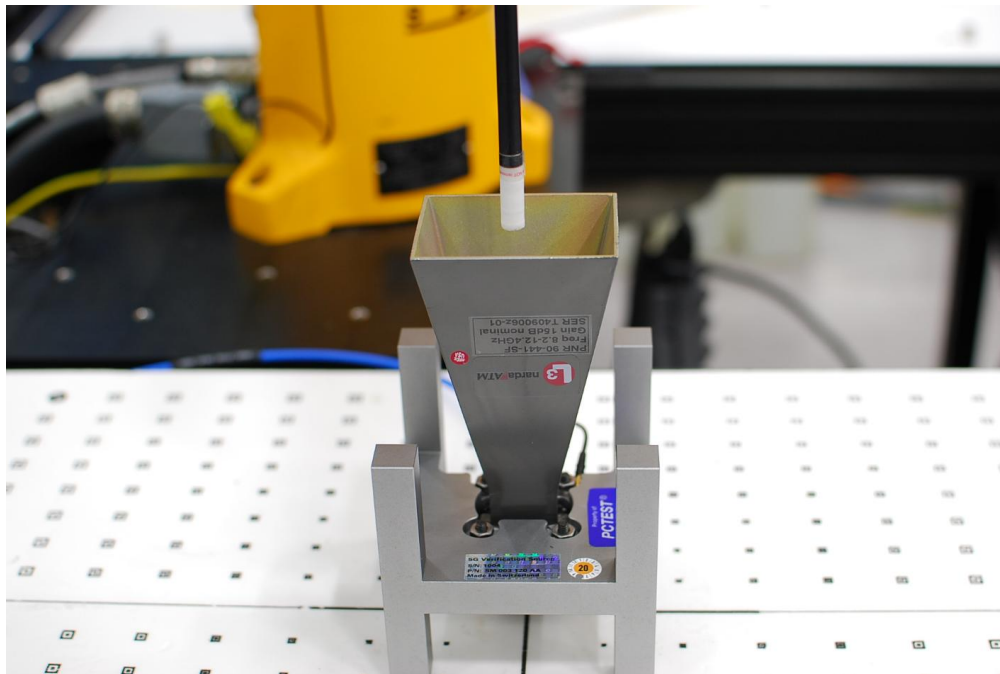


Figure 8-3
System Verification Setup Photo

Table 8-3
10 GHz Verification Results

System Verification												
System	Frequency (GHz)	Date	Source S/N	DAE 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	10/17/2025	1004	1402	9364	93.3	59.70	54.60	0.39	59.80	55.60	0.32
AM5	10	11/23/2025	1004	1402	9364	93.3	62.20	54.60	0.57	62.40	55.60	0.50

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

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9 SAR DATA SUMMARY

9.1 2.4 GHz WIFI SISO Standalone SAR

Table 9-1 Antenna WF7b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	0.02	2437.00	6	1.0	22.5	21.23	Back	5	0.149	0.075	1.340	1.021	0.204	0.103	0.128	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	-0.03	2422.00	3	1.0	22.5	21.16	Top	5	0.415	0.207	1.361	1.021	0.577	0.288	0.361	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	0.08	2437.00	6	1.0	22.5	21.23	Top	5	0.423	0.200	1.340	1.021	0.578	0.274	0.362	A1
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	-0.02	2437.00	10	1.0	22.5	21.18	Top	5	0.418	0.206	1.355	1.021	0.578	0.285	0.361	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	0.08	2437.00	6	1.0	22.5	21.23	Bottom	5	0.008	0.003	1.340	1.021	0.011	0.004	0.007	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	0.04	2437.00	6	1.0	22.5	21.23	Right	5	0.000	0.000	1.340	1.021	0.000	0.000	0.000	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	WWL9X	97.91	0.01	2437.00	6	1.0	22.5	21.23	Left	5	0.037	0.018	1.340	1.021	0.051	0.025	0.032	
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 Antenna WF2b

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]	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]	Exposure Ratio (1g SAR)	Plot
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	0.06	2437	6	1.0	22.00	21.03	Back	5	0.145	0.082	1.250	1.024	0.186	0.105	0.116	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	0.12	2437	6	1.0	22.00	21.03	Top	5	0.010	0.005	1.250	1.024	0.013	0.006	0.008	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	0.06	2412	1	1.0	22.00	21.02	Bottom	5	0.359	0.186	1.253	1.024	0.461	0.239	0.288	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	-0.03	2437	6	1.0	22.00	21.03	Bottom	5	0.396	0.203	1.250	1.024	0.507	0.260	0.317	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	-0.21	2462	11	1.0	22.00	20.72	Bottom	5	0.377	0.193	1.343	1.024	0.518	0.265	0.324	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	0.04	2437	6	1.0	22.00	21.03	Right	5	0.343	0.172	1.250	1.024	0.439	0.220	0.274	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	WWL9X	97.61	0.05	2437	6	1.0	22.00	21.03	Left	5	0.006	0.002	1.250	1.024	0.008	0.003	0.005	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																		Body				
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)				

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9.2 5 GHz WIFI SISO Standalone SAR

Table 9-3 Antenna WF7a

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.03	5270	94	U-NII-2A	13.5	20.0	19.09	Back	5	0.128	0.054	1.250	1.024	0.164	0.069	0.103	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.01	5270	94	U-NII-2A	13.5	20.0	19.09	Top	5	0.916	0.348	1.250	1.024	1.185	0.445	0.741	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.06	5270	94	U-NII-2A	13.5	20.0	19.09	Top	5	0.917	0.349	1.250	1.024	1.186	0.446	0.742	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.00	5310	62	U-NII-2A	13.5	17.5	16.39	Top	5	0.901	0.332	1.233	1.024	0.633	0.242	0.396	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.07	5270	94	U-NII-2A	13.5	20.0	19.09	Bottom	5	0.004	0.000	1.250	1.024	0.005	0.000	0.001	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.01	5270	94	U-NII-2A	13.5	20.0	19.09	Right	5	0.902	0.000	1.250	1.024	0.003	0.000	0.001	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	DMX01	97.68	0.01	5270	94	U-NII-2A	13.5	20.0	19.09	Left	5	0.010	0.002	1.250	1.024	0.013	0.003	0.008	
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: Blue entry represents variability measurement

Table 9-4 Antenna WF7a

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.07	5690	138	U-NII-2C	29.3	18.50	17.70	Back	5	0.110	0.044	1.202	1.021	0.135	0.054	0.084	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.17	5610	106	U-NII-2C	29.3	14.50	13.11	Top	5	0.240	0.122	1.377	1.021	0.464	0.172	0.290	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.13	5610	122	U-NII-2C	29.3	18.20	17.01	Top	5	0.808	0.323	1.315	1.021	1.152	0.434	0.720	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.07	5610	122	U-NII-2C	29.3	18.20	17.01	Top	5	0.809	0.323	1.315	1.021	1.153	0.435	0.691	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.10	5690	138	U-NII-2C	29.3	18.50	17.70	Top	5	0.515	0.371	1.202	1.021	0.706	0.455	0.746	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.01	5690	138	U-NII-2C	29.3	18.50	17.70	Bottom	5	0.007	0.000	1.202	1.021	0.009	0.000	0.006	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.03	5690	138	U-NII-2C	29.3	18.50	17.70	Right	5	0.008	0.001	1.202	1.021	0.010	0.001	0.006	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7a	CYLC3	97.94	0.07	5690	138	U-NII-2C	29.3	18.50	17.70	Left	5	0.020	0.009	1.202	1.021	0.036	0.011	0.023	
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: Blue entry represents variability measurement

Table 9-5 Antenna WF7a

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	24MDX	97.68	0.08	5795	159	U-NII-3	13.5	18.50	17.40	Back	5	0.074	0.030	1.288	1.024	0.098	0.040	0.061	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	24MDX	97.68	0.02	5755	151	U-NII-3	13.5	18.50	17.29	Top	5	0.817	0.302	1.321	1.024	1.105	0.409	0.691	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	24MDX	97.68	0.04	5795	159	U-NII-3	13.5	18.50	17.40	Top	5	0.793	0.271	1.288	1.024	0.967	0.357	0.604	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	24MDX	97.68	0.02	5795	159	U-NII-3	13.5	18.50	17.40	Bottom	5	0.000	0.000	1.288	1.024	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	24MDX	97.68	0.02	5795	159	U-NII-3	13.5	18.50	17.40	Right	5	0.000	0.000	1.288	1.024	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7a	24MDX	97.68	0.09	5795	159	U-NII-3	13.5	18.50	17.40	Left	5	0.004	0.000	1.288	1.024	0.005	0.000	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 9-6 Antenna WF2a

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]	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]	Exposure Ratio (1g SAR)	Pilot #
Body	5 GHz WIFU / IEEE 802.11n	40	OFDM	WF2a	N94DG	97.68	-0.17	5270	54	U-NII-2A	13.5	21.00	19.87	Back	5	0.097	0.037	1.297	1.024	0.129	0.049	0.081	
Body	5 GHz WIFU / IEEE 802.11n	40	OFDM	WF2a	N94DG	97.68	0.01	5270	54	U-NII-2A	13.5	21.00	19.87	Top	5	0.095	0.015	1.297	1.024	0.046	0.020	0.029	
Body	5 GHz WIFU / IEEE 802.11n	40	OFDM	WF2a	N94DG	97.68	-0.07	5270	54	U-NII-2A	13.5	21.00	19.87	Bottom	5	0.093	0.295	1.297	1.024	0.288	0.313	0.493	
Body	5 GHz WIFU / IEEE 802.11n	40	OFDM	WF2a	N94DG	97.68	-0.04	5270	54	U-NII-2A	13.5	21.00	19.87	Right	5	0.079	0.033	1.297	1.024	0.105	0.044	0.066	
Body	5 GHz WIFU / IEEE 802.11n	40	OFDM	WF2a	N94DG	97.68	0.09	5270	54	U-NII-2A	13.5	21.00	19.87	Left	5	0.012	0.003	1.297	1.024	0.016	0.004	0.010	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-7 Antenna WF2a

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]	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]	Exposure Ratio (1g SAR)	Pilot #
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	0.04	5610	122	U-NII-2C	29.3	19.0	18.45	Back	5	0.112	0.043	1.135	1.022	0.130	0.050	0.081	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	0.01	5610	122	U-NII-2C	29.3	19.0	18.45	Top	5	0.093	0.000	1.135	1.022	0.009	0.000	0.002	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	0.00	5610	098	U-NII-2C	29.3	19.0	18.45	Bottom	5	0.206	0.098	1.366	1.022	0.368	0.135	0.229	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	-0.05	5610	122	U-NII-2C	29.3	19.0	18.45	Bottom	5	0.804	0.331	1.135	1.022	0.933	0.361	0.563	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	0.00	5610	138	U-NII-2C	29.3	19.0	18.45	Bottom	5	0.046	0.008	1.376	1.022	1.165	0.448	0.728	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	-0.04	5610	138	U-NII-2C	29.3	19.0	18.45	Bottom	5	0.585	0.172	1.178	1.022	0.286	0.448	0.741	10
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	-0.10	5610	122	U-NII-2C	29.3	19.0	18.45	Right	5	0.133	0.051	1.135	1.022	0.154	0.059	0.095	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	P44DG	97.80	0.09	5610	122	U-NII-2C	29.3	19.0	18.45	Left	5	0.038	0.013	1.135	1.022	0.044	0.015	0.028	
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: Blue entry represents variability measurement

Table 9-8 Antenna WF2a

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]	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]	Exposure Ratio (1g SAR)	Pilot #
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	J747J	97.80	0.07	5775	355	U-NII-3	29.3	19.0	18.25	Back	5	0.107	0.039	1.189	1.022	0.130	0.047	0.081	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	J747J	97.80	0.08	5775	355	U-NII-3	29.3	19.0	18.25	Top	5	0.093	0.000	1.189	1.022	0.004	0.000	0.001	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	J747J	97.80	-0.05	5775	355	U-NII-3	29.3	19.0	18.25	Bottom	5	0.980	0.363	1.189	1.022	1.195	0.441	0.744	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	J747J	97.80	0.06	5775	355	U-NII-3	29.3	19.0	18.25	Right	5	0.093	0.037	1.189	1.022	0.111	0.045	0.071	
Body	5 GHz WIFU / IEEE 802.11ac	80	OFDM	WF2a	J747J	97.80	0.07	5775	355	U-NII-3	29.3	19.0	18.25	Left	5	0.008	0.000	1.189	1.022	0.000	0.000	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 9-9 Antenna WF7b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	YPW2D	96.29	0.05	5270	54	U-NII-2A	13.5	20.00	18.76	Back	5	0.019	0.006	1.330	1.039	0.025	0.008	0.016	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	YPW2D	96.29	-0.13	5270	54	U-NII-2A	13.5	20.00	18.76	Top	5	0.263	0.108	1.330	1.039	0.361	0.149	0.226	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	YPW2D	96.29	0.05	5270	54	U-NII-2A	13.5	20.00	18.76	Bottom	5	0.003	0.000	1.330	1.039	0.004	0.000	0.003	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	YPW2D	96.29	0.04	5270	54	U-NII-2A	13.5	20.00	18.76	Right	5	0.000	0.000	1.330	1.039	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	YPW2D	96.29	0.01	5270	54	U-NII-2A	13.5	20.00	18.76	Left	5	0.012	0.003	1.330	1.039	0.017	0.004	0.011	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 9-10 Antenna WF7b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7b	J74YJ	97.98	0.04	5690	138	U-NII-2C	29.3	20.00	18.95	Back	5	0.039	0.016	1.274	1.021	0.051	0.021	0.032	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7b	J74YJ	97.98	-0.07	5690	138	U-NII-2C	29.3	20.00	18.95	Top	5	0.417	0.150	1.274	1.021	0.542	0.195	0.339	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7b	J74YJ	97.98	0.09	5690	138	U-NII-2C	29.3	20.00	18.95	Bottom	5	0.004	0.000	1.274	1.021	0.005	0.000	0.003	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7b	J74YJ	97.98	-0.01	5690	138	U-NII-2C	29.3	20.00	18.95	Right	5	0.001	0.000	1.274	1.021	0.001	0.000	0.001	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF7b	J74YJ	97.98	0.04	5690	138	U-NII-2C	29.3	20.00	18.95	Left	5	0.064	0.024	1.274	1.021	0.083	0.031	0.052	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 9-11 Antenna WF7b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	24MDX	96.29	0.04	5795	159	U-NII-3	13.5	20.00	19.01	Back	5	0.034	0.006	1.256	1.039	0.031	0.008	0.019	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	24MDX	96.29	-0.03	5795	159	U-NII-3	13.5	20.00	19.01	Top	5	0.450	0.162	1.256	1.039	0.587	0.211	0.367	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	24MDX	96.29	0.09	5795	159	U-NII-3	13.5	20.00	19.01	Bottom	5	0.000	0.000	1.256	1.039	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	24MDX	96.29	0.06	5795	159	U-NII-3	13.5	20.00	19.01	Right	5	0.000	0.000	1.256	1.039	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7b	24MDX	96.29	0.01	5795	159	U-NII-3	13.5	20.00	19.01	Left	5	0.068	0.021	1.256	1.039	0.089	0.027	0.056	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

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9.3 6 GHz WIFI SISO Standalone SAR and APD

Table 9-12 Antenna WF7a

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.03	6345	79	68.1	13.75	13.00	Back	5	0.023	0.009	1.189	1.024	0.028	0.011	0.018	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.13	6025	15	68.1	13.00	11.08	Top	5	0.223	0.082	1.556	1.024	0.355	0.131	0.222	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.05	6345	79	68.1	13.75	13.00	Top	5	0.205	0.095	1.189	1.024	0.323	0.116	0.202	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	-0.16	6505	111	68.1	12.75	11.30	Top	5	0.240	0.084	1.396	1.024	0.343	0.120	0.214	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.02	6665	143	68.1	13.00	11.27	Top	5	0.206	0.071	1.489	1.024	0.314	0.108	0.196	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.04	6985	207	68.1	12.50	11.52	Top	5	0.218	0.080	1.253	1.024	0.305	0.103	0.191	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.01	6345	79	68.1	13.75	13.00	Bottom	5	0.000	0.000	1.189	1.024	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.07	6345	79	68.1	13.75	13.00	Right	5	0.000	0.000	1.189	1.024	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.04	6345	79	68.1	13.75	13.00	Left	5	0.006	0.002	1.189	1.024	0.007	0.002	0.004	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak Uncontrolled Exposure/General Population																						
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]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.03	6345	79	68.1	13.75	13.00	Back	5	0.198	1.189	1.024	0.241	0.012			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.13	6025	15	68.1	13.00	11.08	Top	5	1.830	1.556	1.024	2.016	0.146			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.05	6345	79	68.1	13.75	13.00	Top	5	2.130	1.189	1.024	2.593	0.130			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	-0.16	6505	111	68.1	12.75	11.30	Top	5	1.880	1.396	1.024	2.687	0.134			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.02	6665	143	68.1	13.00	11.27	Top	5	1.610	1.489	1.024	2.455	0.123			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.04	6985	207	68.1	12.50	11.52	Top	5	1.810	1.253	1.024	2.312	0.116			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.01	6345	79	68.1	13.75	13.00	Bottom	5	0.001	1.189	1.024	0.001	0.000			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.07	6345	79	68.1	13.75	13.00	Right	5	0.009	1.189	1.024	0.011	0.001			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	XROM5	97.67	0.04	6345	79	68.1	13.75	13.00	Left	5	0.053	1.189	1.024	0.065	0.003			

Table 9-13 Antenna WF2a

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.10	6345	79	68.1	15.00	14.37	Back	5	0.030	0.011	1.156	1.030	0.036	0.013	0.023	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.06	6345	79	68.1	15.00	14.37	Top	5	0.000	0.000	1.156	1.030	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.01	6025	15	68.1	12.75	11.20	Bottom	5	0.189	0.068	1.429	1.030	0.278	0.100	0.174	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.18	6185	47	68.1	14.00	12.30	Bottom	5	0.189	0.067	1.479	1.030	0.388	0.102	0.180	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.01	6345	79	68.1	15.00	14.37	Bottom	5	0.300	0.105	1.156	1.030	0.367	0.125	0.223	A3
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.04	6505	111	68.1	13.75	12.30	Bottom	5	0.238	0.079	1.368	1.030	0.355	0.111	0.209	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.07	6665	143	68.1	13.75	12.21	Bottom	5	0.175	0.060	1.426	1.030	0.257	0.088	0.161	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.04	6985	207	68.1	13.25	11.77	Bottom	5	0.234	0.079	1.406	1.030	0.339	0.114	0.212	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.07	6345	79	68.1	15.00	14.37	Right	5	0.041	0.015	1.156	1.030	0.049	0.018	0.031	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.07	6345	79	68.1	15.00	14.37	Left	5	0.000	0.000	1.156	1.030	0.000	0.000	0.000	
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																						
Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram								
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]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.10	6345	79	68.1	15.00	14.37	Back	5	0.249	1.156	1.030	0.296	0.015			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.06	6345	79	68.1	15.00	14.37	Top	5	0.004	1.156	1.030	0.005	0.000			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.01	6025	15	68.1	12.75	11.20	Bottom	5	1.530	1.429	1.030	2.252	0.113			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.18	6185	47	68.1	14.00	12.30	Bottom	5	1.490	1.479	1.030	2.270	0.114			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.01	6345	79	68.1	15.00	14.37	Bottom	5	2.370	1.156	1.030	2.822	0.141			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.04	6505	111	68.1	13.75	12.30	Bottom	5	1.780	1.368	1.030	2.508	0.125			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.07	6665	143	68.1	13.75	12.21	Bottom	5	1.960	1.426	1.030	1.998	0.100			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.04	6985	207	68.1	13.25	11.77	Bottom	5	1.790	1.406	1.030	2.592	0.130			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	-0.07	6345	79	68.1	15.00	14.37	Right	5	0.344	1.156	1.030	0.410	0.020			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	P44DG	97.13	0.07	6345	79	68.1	15.00	14.37	Left	5	0.000	1.156	1.030	0.000	0.000			

Table 9-14 Antenna WF7b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.01	6665	143	68.1	17.50	16.52	Back	5	0.016	0.006	1.253	1.024	0.021	0.008	0.013	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	-0.01	6025	15	68.1	15.50	15.08	Top	5	0.191	0.061	1.103	1.024	0.216	0.073	0.135	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.18	6345	79	68.1	13.75	12.58	Top	5	0.160	0.054	1.309	1.024	0.214	0.078	0.134	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.11	6505	111	68.1	15.50	14.22	Top	5	0.197	0.070	1.343	1.024	0.271	0.096	0.169	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.06	6665	143	68.1	17.50	16.52	Top	5	0.155	0.054	1.253	1.024	0.199	0.069	0.124	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.07	6985	207	68.1	15.60	14.22	Top	5	0.126	0.050	1.374	1.024	0.177	0.070	0.111	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.06	6665	143	68.1	17.50	16.52	Bottom	5	0.002	0.000	1.253	1.024	0.003	0.000	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.01	6665	143	68.1	17.50	16.52	Right	5	0.002	0.000	1.253	1.024	0.003	0.000	0.002	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.01	6665	143	68.1	17.50	16.52	Left	5	0.004	0.001	1.253	1.024	0.005	0.001	0.003	
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																						
Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram								
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]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.01	6665	143	68.1	17.50	16.52	Back	5	0.132	1.253	1.024	1.024	0.169	0.008		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	-0.01	6025	15	68.1	15.50	15.08	Top	5	1.470	1.102	1.024	1.024	1.659	0.083		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.18	6345	79	68.1	13.75	12.58	Top	5	1.210	1.309	1.024	1.024	1.756	0.088		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.11	6505	111	68.1	15.50	14.22	Top	5	1.580	1.343	1.024	1.024	2.173	0.109		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.06	6665	143	68.1	17.50	16.52	Top	5	1.220	1.253	1.024	1.024	1.565	0.078		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.07	6985	207	68.1	15.60	14.22	Top	5	1.090	1.374	1.024	1.024	1.534	0.077		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.06	6665	143	68.1	17.50	16.52	Bottom	5	0.006	1.253	1.024	1.024	0.010	0.000		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.01	6665	143	68.1	17.50	16.52	Right	5	0.006	1.253	1.024	1.024	0.008	0.000		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	TL96D	97.67	0.01	6665	143	68.1	17.50	16.52	Left	5	0.029	1.253	1.024	1.024	0.037	0.002		

9.4 2.4 GHz Bluetooth SISO Standalone SAR

Table 9-15 Antenna WF7b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	GFSK	WF7b	44L02	84.64	-0.02	2402	0	1	21.0	19.64	Back	5	0.076	0.040	1.368	1.181	0.123	0.065	0.077	
Body	2.4 GHz Bluetooth LE	GFSK	WF7b	44L02	84.64	0.02	2402	0	1	21.0	19.64	Top	5	0.243	0.124	1.368	1.181	0.353	0.200	0.246	
Body	2.4 GHz Bluetooth LE	GFSK	WF7b	44L02	84.64	0.02	2402	0	1	21.0	19.64	Bottom	5	0.007	0.004	1.368	1.181	0.011	0.006	0.007	
Body	2.4 GHz Bluetooth LE	GFSK	WF7b	44L02	84.64	0.08	2402	0	1	21.0	19.64	Right	5	0.000	0.000	1.368	1.181	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth LE	GFSK	WF7b	44L02	84.64	-0.15	2402	0	1	21.0	19.64	Left	5	0.025	0.011	1.368	1.181	0.040	0.021	0.025	
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 reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

Table 9-16 Antenna WF2b

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]	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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	GFSK	WF2b	44L02	84.64	0.03	2402	0	1	20.5	19.81	Back	5	0.087	0.049	1.172	1.181	0.120	0.068	0.075	
Body	2.4 GHz Bluetooth LE	GFSK	WF2b	44L02	84.64	0.08	2402	0	1	20.5	19.81	Top	5	0.007	0.003	1.172	1.181	0.010	0.004	0.006	
Body	2.4 GHz Bluetooth LE	GFSK	WF2b	44L02	84.64	0.03	2402	0	1	20.5	19.81	Bottom	5	0.750	0.119	1.172	1.181	0.346	0.179	0.216	A4
Body	2.4 GHz Bluetooth LE	GFSK	WF2b	44L02	84.64	0.02	2402	0	1	20.5	19.81	Right	5	0.211	0.106	1.172	1.181	0.292	0.147	0.183	
Body	2.4 GHz Bluetooth LE	GFSK	WF2b	44L02	84.64	0.05	2402	0	1	20.5	19.81	Left	5	0.002	0.000	1.172	1.181	0.003	0.000	0.003	
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 reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor.

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9.5 802.15.4 Standalone SAR

Table 9-17 Antenna WF7b

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	WF7b	24MDX	-0.03	2475	25	0.25	20.50	19.36	Back	0	0.080	0.041	1.300	0.104	0.053	0.065	
Body	802.15.4	WF7b	24MDX	0.00	2475	25	0.25	20.50	19.36	Top	0	0.344	0.170	1.300	0.447	0.221	0.279	AS
Body	802.15.4	WF7b	24MDX	0.03	2475	25	0.25	20.50	19.36	Bottom	0	0.008	0.004	1.300	0.010	0.005	0.006	
Body	802.15.4	WF7b	24MDX	0.07	2475	25	0.25	20.50	19.36	Right	0	0.000	0.000	1.300	0.000	0.000	0.000	
Body	802.15.4	WF7b	24MDX	0.03	2475	25	0.25	20.50	19.36	Left	0	0.019	0.009	1.300	0.025	0.012	0.016	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 9-18 Antenna WF2b

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	WF2b	2NN20	-0.10	2475	25	0.25	20.50	19.48	Back	5	0.089	0.050	1.265	0.113	0.063	0.071	
Body	802.15.4	WF2b	2NN20	-0.08	2475	25	0.25	20.50	19.48	Top	5	0.006	0.003	1.265	0.008	0.004	0.005	
Body	802.15.4	WF2b	2NN20	-0.06	2475	25	0.25	20.50	19.48	Bottom	5	0.267	0.137	1.265	0.338	0.173	0.211	
Body	802.15.4	WF2b	2NN20	0.01	2475	25	0.25	20.50	19.48	Right	5	0.197	0.098	1.265	0.249	0.124	0.156	
Body	802.15.4	WF2b	2NN20	0.02	2475	25	0.25	20.50	19.48	Left	5	0.002	0.000	1.265	0.003	0.000	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

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9.6 NB U-NII 1 Standalone SAR

Table 9-19 Antenna WF7a

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	WF7a	44LQ2	78.31	0.07	5204	Mid	8	14.50	13.05	Back	5	0.036	0.004	1.396	0.029	0.007	0.018	
Body	NB U-NII 1	HDR	WF7a	44LQ2	78.31	0.17	5204	Mid	8	14.50	13.05	Top	5	0.137	0.046	1.396	0.244	0.087	0.153	
Body	NB U-NII 1	HDR	WF7a	44LQ2	78.31	0.04	5204	Mid	8	14.50	13.05	Bottom	5	0.000	0.000	1.396	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7a	44LQ2	78.31	0.05	5204	Mid	8	14.50	13.05	Right	5	0.000	0.000	1.396	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7a	44LQ2	78.31	0.02	5204	Mid	8	14.50	13.05	Left	5	0.000	0.000	1.396	0.000	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 100% transmission duty factor to determine compliance as the most conservative transmission duty factor

Table 9-20 Antenna WF2a

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	WF2a	J7917	78.25	0.08	5162	Low	8	14.00	12.93	Back	5	0.008	0.002	1.279	0.013	0.003	0.008	
Body	NB U-NII 1	HDR	WF2a	J7917	78.25	0.01	5162	Low	8	14.00	12.93	Top	5	0.000	0.000	1.279	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF2a	J7917	78.25	0.06	5162	Low	8	14.00	12.93	Bottom	5	0.065	0.025	1.279	0.106	0.041	0.066	
Body	NB U-NII 1	HDR	WF2a	J7917	78.25	0.01	5162	Low	8	14.00	12.93	Right	5	0.003	0.000	1.279	0.005	0.000	0.003	
Body	NB U-NII 1	HDR	WF2a	J7917	78.25	0.09	5162	Low	8	14.00	12.93	Left	5	0.000	0.000	1.279	0.000	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 100% transmission duty factor to determine compliance as the most conservative transmission duty factor

Table 9-21 Antenna WF7b

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	HDR	WF7b	6V722	80.04	0.07	5204	Mid	8	15.00	13.59	Back	5	0.000	0.000	1.384	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7b	6V722	80.04	0.05	5204	Mid	8	15.00	13.59	Top	5	0.050	0.017	1.384	0.086	0.029	0.054	
Body	NB U-NII 1	HDR	WF7b	6V722	80.04	0.03	5204	Mid	8	15.00	13.59	Bottom	5	0.000	0.000	1.384	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7b	6V722	80.04	-0.13	5204	Mid	8	15.00	13.59	Right	5	0.000	0.000	1.384	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7b	6V722	80.04	0.01	5204	Mid	8	15.00	13.59	Left	5	0.001	0.000	1.384	0.002	0.000	0.001	
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 100% transmission duty factor to determine compliance as the most conservative transmission duty factor

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9.7 NB U-NII 3 Standalone SAR

Table 9-22 Antenna WF7a

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Exposure Ratio (10g SAR)	Plot #
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	-0.06	5733	Low	1	19.5	19.05	Back	5	0.080	0.032	1.109	0.116	0.046	0.073	0.012	A6
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	-0.04	5844	High	1	19.5	18.94	Top	5	0.802	0.258	1.138	1.192	0.443	0.745	0.111	
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	-0.04	5844	High	1	19.5	18.94	Top	5	0.796	0.265	1.138	1.186	0.438	0.741	0.110	
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	-0.01	5733	Low	1	19.5	19.05	Top	5	0.737	0.283	1.109	1.067	0.410	0.667	0.103	
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	-0.12	5789	Mid	1	19.5	18.89	Top	5	0.697	0.259	1.153	1.050	0.390	0.656	0.098	
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	-0.11	5733	Low	1	19.5	19.05	Bottom	5	0.001	0.000	1.109	0.001	0.000	0.001	0.000	
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	0.01	5733	Low	1	19.5	19.05	Right	5	0.008	0.000	1.109	0.012	0.000	0.008	0.000	
Body	NB U-NII 3	FHSS	WF7a	7304C	76.57	0.03	5733	Low	1	19.5	19.05	Left	5	0.028	0.007	1.109	0.041	0.010	0.026	0.003	
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: Blue entry represents variability measurement

Table 9-23 Antenna WF2a

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	0.01	5844	High	1	19.25	18.31	Back	5	0.106	0.040	1.242	0.172	0.065	0.108	
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	0.07	5844	High	1	19.25	18.31	Top	5	0.003	0.000	1.242	0.005	0.000	0.003	
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	-0.08	5844	High	1	19.25	18.31	Bottom	5	0.721	0.266	1.242	1.169	0.431	0.731	
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	0.02	5733	Low	1	19.25	18.27	Bottom	5	0.668	0.251	1.253	1.093	0.411	0.683	
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	0.04	5789	Mid	1	19.25	18.28	Bottom	5	0.675	0.251	1.250	1.102	0.410	0.689	
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	-0.16	5844	High	1	19.25	18.31	Right	5	0.089	0.036	1.242	0.144	0.058	0.090	
Body	NB U-NII 3	FHSS	WF2a	J74YJ	76.57	0.05	5844	High	1	19.25	18.31	Left	5	0.019	0.004	1.242	0.031	0.006	0.019	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 9-24 Antenna WF7b

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	WF7b	24MDX	76.57	0.03	5733	Low	1	20.00	18.95	Back	5	0.020	0.006	1.274	0.033	0.010	0.021	
Body	NB U-NII 3	FHSS	WF7b	24MDX	76.57	-0.02	5733	Low	1	20.00	18.95	Top	5	0.323	0.123	1.274	0.537	0.205	0.336	
Body	NB U-NII 3	FHSS	WF7b	24MDX	76.57	0.05	5733	Low	1	20.00	18.95	Bottom	5	0.003	0.000	1.274	0.005	0.000	0.003	
Body	NB U-NII 3	FHSS	WF7b	24MDX	76.57	0.05	5733	Low	1	20.00	18.95	Right	5	0.002	0.000	1.274	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7b	24MDX	76.57	0.04	5733	Low	1	20.00	18.95	Left	5	0.067	0.023	1.274	0.111	0.038	0.069	
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 reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor

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9.8 NB U-NII 5 Standalone SAR

Table 9-25 Antenna WF7a

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.07	6109	Low	8	0.75	0.35	Back	5	0.000	0.000	1.096	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.05	6417	High	8	0.75	-0.10	Top	5	0.009	0.004	1.216	0.014	0.006	0.009	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.02	6109	Low	8	0.75	0.35	Top	5	0.011	0.004	1.096	0.015	0.005	0.009	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.06	6186	Low-Mid	8	0.75	0.18	Top	5	0.010	0.001	1.140	0.014	0.004	0.009	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.05	6263	Mid	8	0.75	0.25	Top	5	0.006	0.002	1.122	0.008	0.003	0.005	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.08	6340	Mid-High	8	0.75	0.20	Top	5	0.006	0.003	1.135	0.009	0.004	0.006	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.01	6109	Low	8	0.75	0.35	Bottom	5	0.000	0.000	1.096	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.01	6109	Low	8	0.75	0.35	Right	5	0.000	0.000	1.096	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF7a	T7917	80.00	0.01	6109	Low	8	0.75	0.35	Left	5	0.000	0.000	1.096	0.000	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								
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]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.07	6109	Low	8	0.75	0.35	Back	5	0.000	1.096	0.000	0.000			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.05	6417	High	8	0.75	-0.10	Top	5	0.080	1.216	0.122	0.006			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.02	6109	Low	8	0.75	0.35	Top	5	0.094	1.096	0.129	0.006			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.06	6186	Low-Mid	8	0.75	0.18	Top	5	0.076	1.140	0.108	0.005			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.05	6263	Mid	8	0.75	0.25	Top	5	0.049	1.122	0.069	0.003			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.08	6340	Mid-High	8	0.75	0.20	Top	5	0.058	1.135	0.082	0.004			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.01	6109	Low	8	0.75	0.35	Bottom	5	0.000	1.096	0.000	0.000			
Body	NB U-NII 5	HDR	WF7a	T44PH	80.00	0.01	6109	Low	8	0.75	0.35	Right	5	0.004	1.096	0.005	0.000			
Body	NB U-NII 5	HDR	WF7a	T7917	80.00	0.01	6109	Low	8	0.75	0.35	Left	5	0.000	1.096	0.000	0.000			

Table 9-26 Antenna WF2a

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.08	6263	Mid	8	0.75	0.31	Back	5	0.000	0.000	1.107	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.01	6263	Mid	8	0.75	0.31	Top	5	0.000	0.000	1.107	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.01	6417	High	8	0.75	-0.22	Bottom	5	0.008	0.003	1.250	0.013	0.005	0.008	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.08	6109	Low	8	0.75	0.02	Bottom	5	0.009	0.003	1.183	0.013	0.004	0.008	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.02	6186	Low-Mid	8	0.75	0.01	Bottom	5	0.007	0.002	1.186	0.010	0.003	0.006	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.07	6263	Mid	8	0.75	0.31	Bottom	5	0.007	0.002	1.107	0.010	0.003	0.006	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.01	6340	Mid-High	8	0.75	0.20	Bottom	5	0.006	0.002	1.135	0.009	0.003	0.006	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.09	6263	Mid	8	0.75	0.31	Right	5	0.000	0.000	1.107	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.07	6263	Mid	8	0.75	0.31	Left	5	0.000	0.000	1.107	0.000	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								
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]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.08	6263	Mid	8	0.75	0.31	Back	5	0.006	1.107	0.008	0.000			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.01	6263	Mid	8	0.75	0.31	Top	5	0.000	1.107	0.000	0.000			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.01	6417	High	8	0.75	-0.22	Bottom	5	0.007	1.250	0.009	0.004			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.08	6109	Low	8	0.75	0.02	Bottom	5	0.061	1.183	0.090	0.005			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.02	6186	Low-Mid	8	0.75	0.01	Bottom	5	0.045	1.186	0.067	0.003			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.07	6263	Mid	8	0.75	0.31	Bottom	5	0.047	1.107	0.065	0.003			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.01	6340	Mid-High	8	0.75	0.20	Bottom	5	0.041	1.135	0.058	0.003			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.09	6263	Mid	8	0.75	0.31	Right	5	0.010	1.107	0.014	0.001			
Body	NB U-NII 5	HDR	WF2a	P44DG	80.00	0.07	6263	Mid	8	0.75	0.31	Left	5	0.002	1.107	0.003	0.000			

Table 9-27 Antenna WF7b

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]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.06	6263	Mid	8	0.75	0.20	Back	5	0.000	0.000	1.135	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.11	6417	High	8	0.75	-0.26	Top	5	0.012	0.004	1.262	0.019	0.006	0.012	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.01	6109	Low	8	0.75	-0.58	Top	5	0.011	0.004	1.358	0.019	0.007	0.012	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.01	6186	Low-Mid	8	0.75	0.10	Top	5	0.012	0.004	1.161	0.017	0.006	0.011	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.01	6263	Mid	8	0.75	0.20	Top	5	0.007	0.002	1.135	0.010	0.003	0.006	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.02	6340	Mid-High	8	0.75	-0.10	Top	5	0.009	0.001	1.216	0.014	0.005	0.009	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.07	6263	Mid	8	0.75	0.20	Bottom	5	0.000	0.000	1.135	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.09	6263	Mid	8	0.75	0.20	Right	5	0.000	0.000	1.135	0.000	0.000	0.000	
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.08	6263	Mid	8	0.75	0.20	Left	5	0.000	0.000	1.135	0.000	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								
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]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.06	6263	Mid	8	0.75	0.20	Back	5	0.000	1.135	0.000	0.000			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.11	6417	High	8	0.75	-0.26	Top	5	0.084	1.262	0.133	0.007			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.01	6109	Low	8	0.75	-0.58	Top	5	0.088	1.358	0.149	0.007			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.01	6186	Low-Mid	8	0.75	0.10	Top	5	0.095	1.161	0.138	0.007			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.01	6263	Mid	8	0.75	0.20	Top	5	0.045	1.135	0.064	0.003			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.02	6340	Mid-High	8	0.75	-0.10	Top	5	0.069	1.216	0.105	0.005			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.07	6263	Mid	8	0.75	0.20	Bottom	5	0.000	1.135	0.000	0.000			
Body	NB U-NII 5	HDR	WF7b	P44DG	80.00	0.09	6263	Mid	8	0.75	0.20	Right	5	0.000	1.135	0.000	0.000			

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9.9 WPT Standalone SAR

Table 9-28 Antenna WPT

Exposure	Band / Mode	Service / Modulation	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	wPT	CW	24MDX	0.01	13.60	Back	5	0.000	0.000	A7
Body	wPT	CW	24MDX	0.08	13.60	Top	5	0.000	0.000	
Body	wPT	CW	24MDX	0.07	13.60	Bottom	5	0.000	0.000	
Body	wPT	CW	24MDX	0.01	13.60	Right	5	0.000	0.000	
Body	wPT	CW	24MDX	0.01	13.60	Left	5	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				

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9.10 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. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
9. 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 D04v01 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.

Bluetooth/NB UNII Notes

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor. See Section 7.11 and 7.19 for the time domain plot and calculation for the duty factor of the device.

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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 7.8 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%.

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10 POWER DENSITY DATA SUMMARY

10.1 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.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025	15	802.11ax	OFDM	160	13.00	11.08	0.07	2	WF7a	XRQM5	68.1	Top	97.67	0.041	1.070	1.516	1.556	1.024	2.510	6.063	2.850	6.884	
6025	15	802.11ax	OFDM	160	13.00	11.08	0.21	9.95	WF7a	XRQM5	68.1	Top	97.67	0.041	0.984	1.516	1.556	1.024	1.260	3.044	1.390	3.358	
6505	111	802.11ax	OFDM	160	15.50	14.22	-0.03	2	WF7b	TL96D	68.1	Top	97.67	0.041	1.550	1.516	1.343	1.024	2.980	6.213	3.310	6.901	
6505	111	802.11ax	OFDM	160	15.50	14.22	-0.11	9.21	WF7b	TL96D	68.1	Top	97.67	0.041	1.080	1.516	1.343	1.024	1.210	2.523	1.340	2.794	
6345	79	802.11ax	OFDM	160	15.00	14.37	-0.13	2	WF2a	XRQM5	68.1	Bottom	97.13	0.041	1.360	1.516	1.156	1.030	3.280	5.921	3.800	6.859	A8
6345	79	802.11ax	OFDM	160	15.00	14.37	-0.04	9.45	WF2a	XRQM5	68.1	Bottom	97.13	0.041	1.240	1.516	1.156	1.030	1.560	2.816	1.690	3.051	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population									Power Density 10 W/m² averaged over 4 cm²														
MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 622879	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #	
6109	Low	HDRpB	OQPSK	0.75	0.35	-0.15	2	WF7a	T44PH	8	Top	80.00	0.041	0.144	1.516	1.096	1.250	0.256	0.536	0.267	0.596		
6109	Low	HDRpB	OQPSK	0.75	0.35	-0.20	9.81	WF7a	T44PH	8	Top	80.00	0.041	0.068	1.516	1.096	1.250	0.068	0.141	0.076	0.158		
6417	High	HDRpB	OQPSK	0.75	-0.26	0.08	2	WF7b	P44DG	8	Top	80.00	0.041	0.177	1.516	1.262	1.250	0.150	0.359	0.164	0.392		
6417	High	HDRpB	OQPSK	0.75	-0.26	-0.19	9.33	WF7b	P44DG	8	Top	80.00	0.041	0.114	1.516	1.262	1.250	0.093	0.222	0.095	0.227		
6109	Low	HDRpB	OQPSK	0.75	0.02	0.20	2	WF2a	T44PH	8	Bottom	80.00	0.041	0.224	1.516	1.183	1.250	0.345	0.773	0.360	0.807	A9	
6109	Low	HDRpB	OQPSK	0.75	0.02	0.19	9.81	WF2a	T44PH	8	Bottom	80.00	0.041	0.121	1.516	1.183	1.250	0.106	0.238	0.116	0.260		
287 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population									Power Density 10 W/m² averaged over 28 cm²														

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10.2 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 D04v01.
8. PTP-PR algorithm was used during psPD measurement and calculations.
9. Per KDB Publication 388624, the OVER6G checklist was simplified for the 6 to 8.5 GHz range requiring a single power density measurement in correspondence to the largest SAR value that was measured.

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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)	
5250	5270	54	5 GHz WiFi/ IEEE 802.11n, 40 MHz Bandwidth	OFDM	WF7a	13.5	Top	5 mm	0.926	0.875	1.06	N/A	N/A	N/A	N/A
5600	5610	122	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF7a	29.3	Top	5 mm	0.858	0.824	1.04	N/A	N/A	N/A	N/A
5750	5690	138	5 GHz WiFi/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF2a	29.3	Bottom	5 mm	0.985	0.968	1.02	N/A	N/A	N/A	N/A
5850	5844	High	NB U-NII 3	FHSS	WF7a	1	Top	5 mm	0.802	0.798	1.01	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.

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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	12/8/2024	Annual	12/8/2025	MY42081752
Agilent	E4438C	ESG Vector Signal Generator	5/12/2025	Annual	5/12/2026	MY45093678
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	5-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
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	8/21/2025	Annual	8/21/2026	1138001
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	7/3/2025	Annual	7/3/2026	1726261
Anritsu	MA2411B	Pulse Power Sensor	6/27/2025	Annual	6/27/2026	1911105
Insize	1108-150	Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Anritsu	MA24106A	USB Power Sensor	4/28/2025	Annual	4/28/2026	1520501
Mini-Circuits	PWR-4GHS	9-KHz-400MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	7/17/2025	Biennial	7/17/2027	250440182
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N5W5+	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	7/3/2025	Annual	7/3/2026	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
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2025	Annual	5/12/2026	1070
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	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	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	8/6/2025	Annual	8/6/2026	1004
SPEAG	CLA13	Confined Loop Antenna	11/7/2025	Annual	11/7/2026	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2025	Annual	2/21/2026	1163
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Biennial	11/8/2026	1066
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/6/2025	Annual	8/6/2026	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/8/2025	Annual	8/8/2026	1681
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAG	EX3DV4	SAR Probe	8/11/2025	Annual	8/11/2026	7668
SPEAG	EX3DV4	SAR Probe	8/13/2025	Annual	8/13/2026	3837
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7532
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7782
SPEAG	EUmmWV3	9364	6/11/2025	Annual	6/11/2026	9364

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. Each equipment item was used solely within its respective calibration period.

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13 MEASUREMENT UNCERTAINTIES

SAR Uncertainty Budget based on IEEE 1528-2013 (0.3 GHz to 10 GHz)

a	b	c	d	e f(d,k)	f	g	h cx/f/e	i cx/g/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	9.30	N	1	1	1	9.30	9.30	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	4.27	N	1	0.78	0.71	3.33	3.03	55
Liquid permittivity measurement	E.3.3	4.18	N	1	0.23	0.26	0.96	1.09	55
Liquid conductivity - temperature uncertainty	E.3.4	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.60	R	1.73	0.23	0.26	0.08	0.09	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							13.1	12.9	150
Expanded uncertainty (95% confidence interval)							26.2	25.8	

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PD Uncertainty Budget based on IEC IEEE 63195-1 for ESR IPD Measurement

Symbol	Source of uncertainty	Description	Unc. ± dB	Prob. Dist.	Div. qi	ci	Standard uncertainty ± dB	vi
Uncertainty terms dependent on the measurement system								
CAL	Calibration	8.4.1	0.49	N	1	1	0.49	∞
COR	Probe correction	8.4.2	0.00	R	1.73	1	0.00	∞
FRS	Frequency response	8.4.3	0.20	R	1.73	1	0.12	∞
SCC	Sensor cross coupling	8.4.4	0.00	R	1.73	1	0.00	∞
ISO	Isotropy	8.4.5	0.50	R	1.73	1	0.29	∞
LIN	System linearity error	8.4.6	0.20	R	1.73	1	0.12	∞
PSC	Probe scattering	8.4.7	0.00	R	1.73	1	0.00	∞
PPO	Probe positioning offset	8.4.8	0.30	R	1.73	1	0.17	∞
PPR	Probe positioning repeatability	8.4.9	0.04	R	1.73	1	0.02	∞
SMO	Sensor mechanical offset	8.4.10	0.02	R	1.73	1	0.01	∞
PSR	Probe spatial resolution	8.4.11	0.00	R	1.73	1	0.00	∞
FLD	Field impedance dependence	8.4.12	0.00	R	1.73	1	0.00	∞
MED	Measurement drift	8.4.13	0.00	R	1.73	1	0.00	∞
APN	Amplitude and phase noise	8.4.14	0.04	R	1.73	1	0.02	∞
TR	Measurement area truncation	8.4.15	0.10	R	1.73	1	0.06	∞
DAQ	Data acquisition	8.4.16	0.03	N	1	1	0.03	∞
SMP	Sampling	8.4.17	0.00	R	1.73	1	0.00	∞
REC	Field reconstruction	8.4.18	0.60	R	1.73	1	0.35	∞
SNR	Signal-to-noise ratio	8.4.19	0.00	N	1	1	0.00	∞
TRA	Forward and backward transformation	8.4.20	0.00	R	1.73	1	0.00	∞
SCA	Power density scaling	8.4.21	0.00	R	1.73	1	0.00	∞
SAV	Spatial averaging	8.4.22	0.10	R	1.73	1	0.06	∞
COM	Exposure combining	8.4.23	0.00	N	1	1	0.00	∞
SDL	System detection limit		0.04	R	1.73	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors								
PC	Probe coupling with DUT	8.5.1	0.00	R	1.73	1	0.00	∞
MOD	Modulation response	8.5.2	0.40	R	1.73	1	0.23	∞
IT	Integration time	8.5.3	0.00	R	1.73	1	0.00	∞
RT	Response time	8.5.4	0.00	R	1.73	1	0.00	∞
DH	Device holder influence	8.5.5	0.10	R	1.73	1	0.06	∞
DA	DUT alignment	8.5.6	0.00	R	1.73	1	0.00	∞
AC	RF ambient conditions	8.5.7	0.04	R	1.73	1	0.02	∞
TEM	Laboratory temperature	8.5.8	0.00	R	1.73	1	0.00	∞
REF	Reflections in laboratory	8.5.9	0.04	R	1.73	1	0.02	∞
MSI	Immunity / secondary reception	8.5.10	0.00	R	1.73	1	0.00	∞
DRI	DUT drift	8.5.11	0.22	R	1.73	1	0.13	∞
u(ASAR)	Combined uncertainty	8.6					0.76	
U	Expanded uncertainty (95 % confidence interval)	8.6					1.53	

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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]

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