Element Materials Technology
(formerly PCTEST)
18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.408.538.5600
http://www.element.com



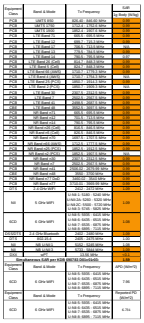
SAR EVALUATION REPORT

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

Date of Testing:
11/29/2023 – 02/25/2024
Test Report Issue Date:
03/27/2024
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2311270064-02.BCG-R1

FCC ID:	**BCGA2903**
APPLICANT:	**APPLE, INC.**

DUT Type:	Tablet Device
Application Type:	Certification
FCC Rule Part(s):	CFR §2.1093
Models:	A2903, A2904



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

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

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

RJ Ortanez
Executive Vice President

Prepared by: WKR0000009761

Reviewed by: WKR0000005825

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

TABLE OF CONTENTS

1 DEVICE UNDER TEST 3

2 LTE AND NR INFORMATION 54

3 INTRODUCTION 56

4 DOSIMETRIC ASSESSMENT 57

5 TEST CONFIGURATION POSITIONS 58

6 RF EXPOSURE LIMITS 59

7 FCC MEASUREMENT PROCEDURES 61

8 RF CONDUCTED POWERS 67

9 SYSTEM VERIFICATION 193

10 SAR DATA SUMMARY 204

11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS 242

12 SAR MEASUREMENT VARIABILITY 311

13 ADDITIONAL TESTING PER FCC GUIDANCE 312

14 EQUIPMENT LIST 321

15 MEASUREMENT UNCERTAINTIES 322

16 CONCLUSION 325

17 REFERENCES 326

APPENDIX A: SAR TEST PLOTS
APPENDIX B: SAR DIPOLE VERIFICATION PLOTS
APPENDIX C: PROBE AND DIPOLE CALIBRATION CERTIFICATES
APPENDIX D: SAR TISSUE SPECIFICATIONS
APPENDIX E: LTE AND NR LOWER BANDWIDTH RF CONDUCTED POWERS
APPENDIX F: SAR SYSTEM VALIDATION
APPENDIX G: LTE DOWNLINK CA RF CONDUCTED POWERS
APPENDIX H: 802.11AX RU SAR EXCLUSION
APPENDIX I: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS
APPENDIX J: WLAN TIME-AVERAGED SAR VERIFICATION

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
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: 5955 - 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
WPT	N/A	13.56 MHz

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs a time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.10 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.10 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit}. Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the smart tx uncertainty for sub-6GHz WWAN is 1.0 dB for this EUT.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Exposure Scenario:	Ant 1a	Ant 1a Maximum Tune-up Output Power*	Ant 1b	Ant 1b Maximum Tune-up Output Power*	Ant 2a	Ant 2a Maximum Tune-up Output Power*	Ant 2b	Ant 2b Maximum Tune-up Output Power*	Ant 3a	Ant 3a Maximum Tune-up Output Power*	Ant 3b	Ant 3b Maximum Tune-up Output Power*	Ant 4	Ant 4 Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g		1g		1g		1g	
Spacing:	0 mm		0 mm		0 mm		0 mm		0 mm		0 mm		0 mm	
DSI:	0		0		0		0		0		0		0	
Technology/Band	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax
UMTS 850	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	17.80	25.00
UMTS 1750	N/A	N/A	11.40	23.00	N/A	N/A	13.00	23.50	12.70	24.00	N/A	N/A	14.50	25.00
UMTS 1900	N/A	N/A	12.10	23.00	N/A	N/A	12.90	23.50	13.60	24.00	N/A	N/A	13.00	25.00
LTE Band 71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.00	24.50	19.70	25.00
LTE Band 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.20	24.50	19.00	25.00
LTE Band 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.20	24.50	19.00	25.00
LTE Band 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.60	24.50	19.00	25.00
LTE Band 14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.60	24.50	19.00	25.00
LTE Band 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	17.80	25.00
LTE Band 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	17.80	25.00
LTE Band 5 ULCA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	17.80	25.00
LTE Band 4	N/A	N/A	11.40	24.00	N/A	N/A	13.00	25.00	12.70	24.00	N/A	N/A	14.50	25.00
LTE Band 66	N/A	N/A	11.40	24.00	N/A	N/A	13.00	25.00	12.70	24.00	N/A	N/A	14.50	25.00
LTE Band 2	N/A	N/A	12.10	23.00	N/A	N/A	12.90	23.50	13.60	24.00	N/A	N/A	13.00	25.00
LTE Band 25	N/A	N/A	12.10	23.00	N/A	N/A	12.90	23.50	13.60	24.00	N/A	N/A	13.00	25.00
LTE Band 30	N/A	N/A	13.30	22.50	N/A	N/A	13.50	23.50	11.20	21.20	N/A	N/A	11.60	20.90
LTE Band 7	N/A	N/A	12.50	22.50	N/A	N/A	13.50	23.50	9.80	24.00	N/A	N/A	11.80	25.00
LTE Band 7 ULCA	N/A	N/A	12.50	22.50	N/A	N/A	13.50	23.50	9.80	24.00	N/A	N/A	11.80	25.00
LTE Band 41 (PC3)	N/A	N/A	12.6	23.0	N/A	N/A	13.5	23.0	11.5	23.0	N/A	N/A	12.4	23.0
LTE Band 41 (PC3) ULCA	N/A	N/A	12.6	23.0	N/A	N/A	13.5	23.0	11.5	23.0	N/A	N/A	12.4	23.0
LTE Band 41 (PC2)	N/A	N/A	12.6	22.9	N/A	N/A	13.5	24.4	11.5	22.4	N/A	N/A	12.4	23.4
LTE Band 41 (PC2) ULCA	N/A	N/A	12.6	22.9	N/A	N/A	13.5	24.4	11.5	22.4	N/A	N/A	12.4	23.4
LTE Band 48	10.3	18.9	N/A	N/A	8.8	16.8	N/A	N/A	N/A	N/A	11.5	16.3	11.3	20.0
LTE Band 48 ULCA	10.3	18.9	N/A	N/A	8.8	16.8	N/A	N/A	N/A	N/A	11.5	16.3	11.3	20.0
NR Band n71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.00	24.50	19.70	25.00
NR Band n12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.20	24.50	19.00	25.00
NR Band n14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.60	24.50	19.00	25.00
NR Band n26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	17.80	25.00
NR Band n5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	23.20	17.80	25.00
NR Band n70	N/A	N/A	11.40	24.00	N/A	N/A	13.00	25.00	12.70	24.00	N/A	N/A	14.50	25.00
NR Band n66	N/A	N/A	11.40	24.00	N/A	N/A	13.00	25.00	12.70	24.00	N/A	N/A	14.50	25.00
NR Band n2	N/A	N/A	12.10	23.00	N/A	N/A	12.90	23.50	13.60	24.00	N/A	N/A	13.00	25.00
NR Band n25	N/A	N/A	12.10	23.00	N/A	N/A	12.90	23.50	13.60	24.00	N/A	N/A	13.00	25.00
NR Band n30	N/A	N/A	13.30	22.50	N/A	N/A	13.50	23.50	11.20	21.20	N/A	N/A	11.60	20.90
NR Band n7	N/A	N/A	12.50	22.50	N/A	N/A	13.50	23.50	9.80	24.00	N/A	N/A	11.80	25.00
NR Band n41 (PC3)	N/A	N/A	12.20	25.00	N/A	N/A	12.80	25.00	10.60	25.00	N/A	N/A	11.70	25.00
NR Band n41 (PC2)	N/A	N/A	12.20	26.50	N/A	N/A	12.80	28.00	10.60	26.00	N/A	N/A	11.70	27.00
NR Band n48	9.90	20.90	N/A	N/A	8.60	18.80	N/A	N/A	N/A	N/A	11.50	18.30	11.60	22.00
NR Band n77 (PC3)	9.20	22.50	N/A	N/A	7.00	22.50	N/A	N/A	N/A	N/A	11.50	24.70	9.60	24.70
NR Band n77 (PC2)	9.20	22.50	N/A	N/A	7.00	22.50	N/A	N/A	N/A	N/A	11.50	26.10	9.60	25.50

*Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power +0.7/-1.0 dB conducted power tolerance and for UHB +/- 1.0 dB conducted power tolerance.

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of "P_{limit} EFS" and "Maximum tune up output power P_{max}" +1.0/-1.0 dB smart tx uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0 dB.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.3 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth/802.15/NB UNII and WLAN operations. When Bluetooth/802.15/NB UNII/WLAN is operating simultaneously with certain combinations of 3G/4G/5G and 5/6 GHz WLAN antennas, the output power of is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

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

1.4 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.

1.4.1 WWAN Output Power

Table 1-1
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)	
			Ant 4	Ant 3b
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA Rel 99	**18.80**	**17.00**
	Nominal		**17.80**	**16.00**
	Max allowed power	3GPP HSDPA Rel 5	**18.80**	**17.00**
	Nominal		**17.80**	**16.00**
	Max allowed power	3GPP HSUPA Rel 6	**18.80**	**17.00**
	Nominal		**17.80**	**16.00**
	Max allowed power	3GPP DC-HSDPA Rel 8	**18.80**	**17.00**
	Nominal		**17.80**	**16.00**

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2b	Ant 3a	Ant 1b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA Rel 99	**15.50**	**14.00**	**13.70**	**12.40**
	Nominal		**14.50**	**13.00**	**12.70**	**11.40**
	Max allowed power	3GPP HSDPA Rel 5	**15.50**	**14.00**	**13.70**	**12.40**
	Nominal		**14.50**	**13.00**	**12.70**	**11.40**
	Max allowed power	3GPP HSUPA Rel 6	**15.50**	**14.00**	**13.70**	**12.40**
	Nominal		**14.50**	**13.00**	**12.70**	**11.40**
	Max allowed power	3GPP DC-HSDPA Rel 8	**15.50**	**14.00**	**13.70**	**12.40**
	Nominal		**14.50**	**13.00**	**12.70**	**11.40**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-3
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2b	Ant 3a	Ant 1b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA Rel 99	**14.00**	**13.90**	**14.60**	**13.10**
	Nominal		**13.00**	**12.90**	**13.60**	**12.10**
	Max allowed power	3GPP HSDPA Rel 5	**14.00**	**13.90**	**14.60**	**13.10**
	Nominal		**13.00**	**12.90**	**13.60**	**12.10**
	Max allowed power	3GPP HSUPA Rel 6	**14.00**	**13.90**	**14.60**	**13.10**
	Nominal		**13.00**	**12.90**	**13.60**	**12.10**
	Max allowed power	3GPP DC-HSDPA Rel 8	**14.00**	**13.90**	**14.60**	**13.10**
	Nominal		**13.00**	**12.90**	**13.60**	**12.10**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-4
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 4	Ant 3b	Ant 3a	Ant 2a	Ant 2b	Ant 1a	Ant 1b
LTE FDD Band 71	Max allowed power	20.70	18.00					
	Nominal	19.70	17.00					
LTE FDD Band 12	Max allowed power	20.00	18.20					
	Nominal	19.00	17.20					
LTE FDD Band 17	Max allowed power	20.00	18.20					
	Nominal	19.00	17.20					
LTE FDD Band 13	Max allowed power	20.00	17.60					
	Nominal	19.00	16.60					
LTE FDD Band 14	Max allowed power	20.00	17.60					
	Nominal	19.00	16.60					
LTE FDD Band 26	Max allowed power	18.80	17.00					
	Nominal	17.80	16.00					
LTE FDD Band 5	Max allowed power	18.80	17.00					
	Nominal	17.80	16.00					
LTE FDD Band 5 Intra-band ULCA	Max allowed power	18.80	17.00					
	Nominal	17.80	16.00					
LTE FDD Band 4	Max allowed power	15.50		13.70		14.00		12.40
	Nominal	14.50		12.70		13.00		11.40
LTE FDD Band 66	Max allowed power	15.50		13.70		14.00		12.40
	Nominal	14.50		12.70		13.00		11.40
LTE FDD Band 2	Max allowed power	14.00		14.60		13.90		13.10
	Nominal	13.00		13.60		12.90		12.10
LTE FDD Band 25	Max allowed power	14.00		14.60		13.90		13.10
	Nominal	13.00		13.60		12.90		12.10
LTE FDD Band 30	Max allowed power	12.60		12.20		14.50		14.30
	Nominal	11.60		11.20		13.50		13.30
LTE FDD Band 7	Max allowed power	12.80		10.80		14.50		13.50
	Nominal	11.80		9.80		13.50		12.50
LTE FDD Band 7 Intra-band ULCA	Max allowed power	12.80		10.80		14.50		13.50
	Nominal	11.80		9.80		13.50		12.50
LTE TDD Band 41 (PC3)	Max allowed power	15.40		14.50		16.50		15.60
	Nominal	14.40		13.50		15.50		14.60
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	15.40		14.50		16.50		15.60
	Nominal	14.40		13.50		15.50		14.60
LTE TDD Band 41 (PC2)	Max allowed power	17.00		16.10		18.10		17.20
	Nominal	16.00		15.10		17.10		16.20
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	17.00		16.10		18.10		17.20
	Nominal	16.00		15.10		17.10		16.20
LTE TDD Band 48	Max allowed power	14.30	14.50		11.80		13.30	
	Nominal	13.30	13.50		10.80		12.30	
LTE TDD Band 48 Intra-band ULCA	Max allowed power	14.30	14.50		11.80		13.30	
	Nominal	13.30	13.50		10.80		12.30	

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 4	Ant 3b	Ant 3a	Ant 2a	Ant 2b	Ant 1a	Ant 1b
NR FDD Band n71	Max allowed power	20.70	18.00					
	Nominal	19.70	17.00					
NR FDD Band n12	Max allowed power	20.00	18.20					
	Nominal	19.00	17.20					
NR FDD Band n14	Max allowed power	20.00	17.60					
	Nominal	19.00	16.60					
NR FDD Band n26	Max allowed power	18.80	17.00					
	Nominal	17.80	16.00					
NR FDD Band n5	Max allowed power	18.80	17.00					
	Nominal	17.80	16.00					
NR FDD Band n70	Max allowed power	15.50		13.70		14.00		12.40
	Nominal	14.50		12.70		13.00		11.40
NR FDD Band n66	Max allowed power	15.50		13.70		14.00		12.40
	Nominal	14.50		12.70		13.00		11.40
NR FDD Band n2	Max allowed power	14.00		14.60		13.90		13.10
	Nominal	13.00		13.60		12.90		12.10
NR FDD Band n25	Max allowed power	14.00		14.60		13.90		13.10
	Nominal	13.00		13.60		12.90		12.10
NR FDD Band n30	Max allowed power	12.60		12.20		14.50		14.30
	Nominal	11.60		11.20		13.50		13.30
NR FDD Band n7	Max allowed power	12.80		10.80		14.50		13.50
	Nominal	11.80		9.80		13.50		12.50
NR TDD Band n41 (PC3)[Burst Averaged]	Max allowed power	12.70		11.60		13.80		13.20
	Nominal	11.70		10.60		12.80		12.20
NR TDD Band n41 (PC2)[Burst Averaged]	Max allowed power	12.70		11.60		13.80		13.20
	Nominal	11.70		10.60		12.80		12.20
NR TDD Band n77 (PC3)[Burst Averaged]	Max allowed power	10.60	12.50		8.00		10.20	
	Nominal	9.60	11.50		7.00		9.20	
NR TDD Band n77 (PC2)[Burst Averaged]	Max allowed power	10.60	12.50		8.00		10.20	
	Nominal	9.60	11.50		7.00		9.20	
NR TDD Band n48	Max allowed power	12.60	12.50		9.60		10.90	
	Nominal	11.60	11.50		8.60		9.90	

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.2 Maximum WLAN Time-Averaged Output Power

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

*The tolerances specified in the tables in this report refers to conducted tolerances.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a Tolerance (+0/-3 dB)					
		SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	12.00	12.00	12.00	12.00	12.00	12.00
	2	12.00	12.00	12.00	12.00	12.00	12.00
	3	12.00	12.00	12.00	12.00	12.00	12.00
	4	12.00	12.00	12.00	12.00	12.00	12.00
	5	12.00	12.00	12.00	12.00	12.00	12.00
	6	12.00	12.00	12.00	12.00	12.00	12.00
	7	12.00	12.00	12.00	12.00	12.00	12.00
	8	12.00	12.00	12.00	12.00	12.00	12.00
	9	12.00	12.00	12.00	12.00	12.00	12.00
	10	12.00	12.00	12.00	12.00	12.00	12.00
	11	12.00	12.00	12.00	12.00	12.00	12.00
	12	12.00	12.00	12.00	12.00	12.00	12.00
	13	12.00	8.25	8.25	NS	7.25	NS

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a Tolerance (+0/-3 dB)					
		SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	12.50	12.50	12.50	12.50	12.50	12.50
	2	12.50	12.50	12.50	12.50	12.50	12.50
	3	12.50	12.50	12.50	12.50	12.50	12.50
	4	12.50	12.50	12.50	12.50	12.50	12.50
	5	12.50	12.50	12.50	12.50	12.50	12.50
	6	12.50	12.50	12.50	12.50	12.50	12.50
	7	12.50	12.50	12.50	12.50	12.50	12.50
	8	12.50	12.50	12.50	12.50	12.50	12.50
	9	12.50	12.50	12.50	12.50	12.50	12.50
	10	12.50	12.50	12.50	12.50	12.50	12.50
	11	12.50	12.50	12.50	12.50	12.50	12.50
	12	12.50	12.50	12.50	12.50	12.50	12.50
	13	12.50	8.25	8.25	NS	7.25	NS

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	40	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	44	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	48	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	52	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	56	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	60	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	64	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	100	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	104	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	108	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	112	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	116	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	120	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	124	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	128	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	132	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	136	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	140	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	144	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	149	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	153	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	157	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	161	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	165	9.25	9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	9.75	9.75	9.75	9.75	9.75	9.75
	46		9.75	9.75	9.75	9.75	9.75	9.75
	54		9.75	9.75	9.75	9.75	9.75	9.75
	62		9.75	9.75	9.75	9.75	9.75	9.75
	102		9.00	9.00	9.00	9.00	9.00	9.00
	110		9.00	9.00	9.00	9.00	9.00	9.00
	118		9.00	9.00	9.00	9.00	9.00	9.00
	126		9.00	9.00	9.00	9.00	9.00	9.00
	134		9.00	9.00	9.00	9.00	9.00	9.00
	142		9.00	9.00	9.00	9.00	9.00	9.00
	151		9.25	9.25	9.25	9.25	9.25	9.25
	159		9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 80 MHz Bandwidth	42		9.75	9.75	9.75	9.75	9.75	9.75
	58		9.75	9.75	9.75	9.75	9.75	9.75
	106		9.00	9.00	9.00	9.00	9.00	9.00
	122		9.00	9.00	9.00	9.00	9.00	9.00
	138		9.00	9.00	9.00	9.00	9.00	9.00
	155		9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 160 MHz Bandwidth	50		9.75	9.75	9.75	9.75	9.75	9.75
	114		9.00	9.00	9.00	9.00	9.00	9.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	40	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	44	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	48	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	52	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	56	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	60	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	64	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	100	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	104	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	108	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	112	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	116	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	120	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	124	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	128	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	132	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	136	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	140	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	144	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	149	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	153	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	157	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	161	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	165	9.50	9.50	9.50	9.50	9.50	9.50	9.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	10.00	10.00	10.00	10.00	10.00	10.00
	46		10.00	10.00	10.00	10.00	10.00	10.00
	54		10.00	10.00	10.00	10.00	10.00	10.00
	62		10.00	10.00	10.00	10.00	10.00	10.00
	102		9.50	9.50	9.50	9.50	9.50	9.50
	110		9.50	9.50	9.50	9.50	9.50	9.50
	118		9.50	9.50	9.50	9.50	9.50	9.50
	126		9.50	9.50	9.50	9.50	9.50	9.50
	134		9.50	9.50	9.50	9.50	9.50	9.50
	142		9.50	9.50	9.50	9.50	9.50	9.50
	151		9.50	9.50	9.50	9.50	9.50	9.50
	159		9.50	9.50	9.50	9.50	9.50	9.50
5 GHz WIFI 80 MHz Bandwidth	42	[redacted]	10.00	10.00	10.00	10.00	10.00	10.00
	58		10.00	10.00	10.00	10.00	10.00	10.00
	106		9.50	9.50	9.50	9.50	9.50	9.50
	122		9.50	9.50	9.50	9.50	9.50	9.50
	138		9.50	9.50	9.50	9.50	9.50	9.50
	155		9.50	9.50	9.50	9.50	9.50	9.50
5 GHz WIFI 160 MHz Bandwidth	50	[redacted]	10.00	10.00	10.00	10.00	10.00	10.00
	114		9.50	9.50	9.50	9.50	9.50	9.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	40	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	44	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	48	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	52	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	56	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	60	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	64	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	100	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	104	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	108	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	112	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	116	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	120	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	124	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	128	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	132	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	136	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	140	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	144	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	149	13.50	13.50	13.50	13.50	13.50	13.50	13.50
	153	13.50	13.50	13.50	13.50	13.50	13.50	13.50
	157	13.50	13.50	13.50	13.50	13.50	13.50	13.50
	161	13.50	13.50	13.50	13.50	13.50	13.50	13.50
	165	13.50	13.50	13.50	13.50	13.50	13.50	13.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	15.25	14.75	15.25	14.50	15.25	14.50
	46		15.25	15.25	15.25	15.25	15.25	15.25
	54		15.25	15.25	15.25	15.25	15.25	15.25
	62		15.25	15.25	15.25	15.00	15.25	15.00
	102		14.00	14.00	14.00	14.00	14.00	14.00
	110		14.00	14.00	14.00	14.00	14.00	14.00
	118		14.00	14.00	14.00	14.00	14.00	14.00
	126		14.00	14.00	14.00	14.00	14.00	14.00
	134		14.00	14.00	14.00	14.00	14.00	14.00
	142		14.00	14.00	14.00	14.00	14.00	14.00
	151		13.50	13.50	13.50	13.50	13.50	13.50
	159		13.50	13.50	13.50	13.50	13.50	13.50
5 GHz WIFI 80 MHz Bandwidth	42		15.25	14.75	15.00	14.25	15.00	14.25
	58		15.25	14.75	14.50	14.25	14.50	14.25
	106		14.00	14.00	14.00	14.00	14.00	14.00
	122		14.00	14.00	14.00	14.00	14.00	14.00
	138		14.00	14.00	14.00	14.00	14.00	14.00
	155		13.50	13.50	13.50	13.50	13.50	13.50
5 GHz WIFI 160 MHz Bandwidth	50		13.75	13.75	13.00	13.00	13.00	13.00
	114		13.75	13.75	13.50	13.00	13.50	13.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	9.50	9.50	9.50	9.50
	5	9.50	9.50	9.50	9.50
	9-29	9.50	9.50	9.50	9.50
	33-61	9.50	9.50	9.50	9.50
	65-85	10.50	10.50	10.50	10.50
	89	10.50	10.50	10.50	10.50
	93	10.50	10.50	10.50	10.50
	97-113	NS	NS	NS	NS
	117-181	10.00	10.00	10.00	10.00
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	9.50	9.50	9.50
	11		9.50	9.50	9.50
	19-27		9.50	9.50	9.50
	35-59		9.50	9.50	9.50
	67-75		10.50	10.50	10.50
	83		10.50	10.50	10.50
	91		10.50	10.50	10.50
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		10.00	10.00	10.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		9.50	9.50	9.50
	23		9.50	9.50	9.50
	39-55		9.50	9.50	9.50
	71		10.50	10.50	10.50
	87		10.50	10.50	10.50
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		10.00	10.00	10.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		9.50	9.50	9.50
	47		9.50	9.50	9.50
	79		10.50	10.50	10.50
	111		NS	NS	NS
	143		10.00	10.00	10.00
	175		NS	NS	NS
	207		NS	NS	NS

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	1.00	4.00
	5	6.50	6.50	1.00	4.00
	9-29	6.50	6.50	1.00	4.00
	33-61	6.50	6.50	1.25	4.25
	65-85	6.50	6.50	1.50	4.25
	89	6.50	6.50	1.50	4.25
	93	6.50	6.50	1.50	4.25
	97-113	6.50	6.50	1.50	4.25
	117-181	5.00	5.00	0.25	3.25
	185	4.25	4.25	0.25	3.25
	189-225	4.25	4.25	0.75	3.25
	229	4.25	4.25	0.75	3.25
	233	4.25	4.25	0.75	3.25
6 GHz WIFI LP 40MHz BW	3	[redacted]	9.50	4.00	7.00
	11		9.50	4.00	7.00
	19-27		9.50	4.00	7.00
	35-59		9.50	4.25	7.25
	67-75		9.50	4.50	7.25
	83		9.50	4.50	7.25
	91		9.50	4.50	7.25
	99-107		9.50	4.50	7.25
	115		8.00	3.25	6.25
	123-179		8.00	3.25	6.25
	187		7.25	3.25	6.25
	195-219		7.25	3.75	6.25
	227		7.25	3.75	6.25
6 GHz WIFI LP 80MHz BW	7		9.50	7.00	9.50
	23		9.50	7.00	9.50
	39-55		9.50	7.25	9.50
	71		10.50	7.50	10.25
	87		10.50	7.50	10.25
	103		10.75	7.50	10.25
	119		10.75	6.25	9.25
	135-167		10.00	6.25	9.25
	183		10.00	6.25	9.25
	199		10.25	6.75	9.25
	215		10.25	6.75	9.25
6 GHz WIFI LP 160MHz BW	15		9.50	9.50	9.50
	47		9.50	9.50	9.50
	79		10.50	10.00	10.50
	111		10.75	8.75	10.75
	143		10.00	8.75	10.00
	175		10.00	8.75	10.00
	207		12.00	9.25	11.75

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	8.50	8.50	8.50	8.50
	5	8.50	8.50	8.50	8.50
	9-29	8.50	8.50	8.50	8.50
	33-61	8.50	8.50	8.50	8.50
	65-85	8.00	8.00	8.00	8.00
	89	8.00	8.00	8.00	8.00
	93	8.00	8.00	8.00	8.00
	97-113	NS	NS	NS	NS
	117-181	7.50	7.50	7.50	7.50
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	8.50	8.50	8.50
	11		8.50	8.50	8.50
	19-27		8.50	8.50	8.50
	35-59		8.50	8.50	8.50
	67-75		8.00	8.00	8.00
	83		8.00	8.00	8.00
	91		8.00	8.00	8.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		7.50	7.50	7.50
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		8.50	8.50	8.50
	23		8.50	8.50	8.50
	39-55		8.50	8.50	8.50
	71		8.00	8.00	8.00
	87		8.00	8.00	8.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		7.50	7.50	7.50
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		8.50	8.50	8.50
	47		8.50	8.50	8.50
	79		8.00	8.00	8.00
	111		NS	NS	NS
	143		7.50	7.50	7.50
	175		NS	NS	NS
	207		NS	NS	NS

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	1.00	4.00
	5	6.50	6.50	1.00	4.00
	9-29	6.50	6.50	1.00	4.00
	33-61	6.50	6.50	1.25	4.25
	65-85	6.50	6.50	1.50	4.25
	89	6.50	6.50	1.50	4.25
	93	6.50	6.50	1.50	4.25
	97-113	6.50	6.50	1.50	4.25
	117-181	5.00	5.00	0.25	3.25
	185	4.25	4.25	0.25	3.25
	189-225	4.25	4.25	0.75	3.25
	229	4.25	4.25	0.75	3.25
	233	4.25	4.25	0.75	3.25
6 GHz WIFI LP 40MHz BW	3	[redacted]	8.50	4.00	7.00
	11		8.50	4.00	7.00
	19-27		8.50	4.00	7.00
	35-59		8.50	4.25	7.25
	67-75		8.00	4.50	7.25
	83		8.00	4.50	7.25
	91		8.00	4.50	7.25
	99-107		8.25	4.50	7.25
	115		8.00	3.25	6.25
	123-179		7.50	3.25	6.25
	187		7.25	3.25	6.25
	195-219		7.25	3.75	6.25
	227		7.25	3.75	6.25
6 GHz WIFI LP 80MHz BW	7		8.50	7.00	8.50
	23		8.50	7.00	8.50
	39-55		8.50	7.25	8.50
	71		8.00	7.50	8.00
	87		8.00	7.50	8.00
	103		8.25	7.50	8.25
	119		8.25	6.25	8.25
	135-167		7.50	6.25	7.50
	183		7.50	6.25	7.50
	199		8.00	6.75	8.00
	215		8.00	6.75	8.00
6 GHz WIFI LP 160MHz BW	15		8.50	8.50	8.50
	47		8.50	8.50	8.50
	79		8.00	8.00	8.00
	111		8.25	8.25	8.25
	143		7.50	7.50	7.50
	175		7.50	7.50	7.50
	207		8.00	8.00	8.00

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	13.25	13.25	13.25	13.25
	5	13.25	13.25	13.25	13.25
	9-29	13.25	13.25	13.25	13.25
	33-61	13.25	13.25	13.25	13.25
	65-85	12.75	12.75	12.75	12.75
	89	12.75	12.75	12.75	12.75
	93	12.75	12.75	12.75	12.75
	97-113	NS	NS	NS	NS
	117-181	12.00	12.00	12.00	12.00
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	13.25	13.25	13.25
	11		13.25	13.25	13.25
	19-27		13.25	13.25	13.25
	35-59		13.25	13.25	13.25
	67-75		12.75	12.75	12.75
	83		12.75	12.75	12.75
	91		12.75	12.75	12.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		12.00	12.00	12.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		13.25	13.25	13.25
	23		12.75	12.75	12.75
	39-55		13.25	13.25	13.25
	71		12.75	12.75	12.75
	87		12.75	12.75	12.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		12.00	12.00	12.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		13.25	13.25	13.25
	47		13.25	13.25	13.25
	79		12.75	12.75	12.75
	111		NS	NS	NS
	143		12.00	12.00	12.00
	175		NS	NS	NS
	207		NS	NS	NS

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	1.00	4.00
	5	6.50	6.50	1.00	4.00
	9-29	6.50	6.50	1.00	4.00
	33-61	6.50	6.50	1.25	4.25
	65-85	6.50	6.50	1.50	4.25
	89	6.50	6.50	1.50	4.25
	93	6.50	6.50	1.50	4.25
	97-113	6.50	6.50	1.50	4.25
	117-181	5.00	5.00	0.25	3.25
	185	4.25	4.25	0.25	3.25
	189-225	4.25	4.25	0.75	3.25
	229	4.25	4.25	0.75	3.25
	233	4.25	4.25	0.75	3.25
6 GHz WIFI LP 40MHz BW	3	[redacted]	9.50	4.00	7.00
	11		9.50	4.00	7.00
	19-27		9.50	4.00	7.00
	35-59		9.50	4.25	7.25
	67-75		9.50	4.50	7.25
	83		9.50	4.50	7.25
	91		9.50	4.50	7.25
	99-107		9.50	4.50	7.25
	115		8.00	3.25	6.25
	123-179		8.00	3.25	6.25
	187		7.25	3.25	6.25
	195-219		7.25	3.75	6.25
	227		7.25	3.75	6.25
6 GHz WIFI LP 80MHz BW	7		12.50	7.00	10.00
	23		12.50	7.00	10.00
	39-55		12.50	7.25	10.25
	71		12.50	7.50	10.25
	87		12.50	7.50	10.25
	103		12.50	7.50	10.25
	119		11.00	6.25	9.25
	135-167		11.00	6.25	9.25
	183		10.25	6.25	9.25
	199		10.25	6.75	9.25
	215		10.25	6.75	9.25
6 GHz WIFI LP 160MHz BW	15		13.25	9.50	12.50
	47		13.25	9.75	12.75
	79		12.75	10.00	12.75
	111		12.75	8.75	11.75
	143		12.00	8.75	11.75
	175		11.75	8.75	11.75
	207		11.75	9.25	11.75

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.3 Reduced WLAN Time-Averaged Output Power

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

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a Tolerance (+0/-3 dB)					
		SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	6.00	6.00	6.00	6.00	6.00	6.00
	2	6.00	6.00	6.00	6.00	6.00	6.00
	3	6.00	6.00	6.00	6.00	6.00	6.00
	4	6.00	6.00	6.00	6.00	6.00	6.00
	5	6.00	6.00	6.00	6.00	6.00	6.00
	6	6.00	6.00	6.00	6.00	6.00	6.00
	7	6.00	6.00	6.00	6.00	6.00	6.00
	8	6.00	6.00	6.00	6.00	6.00	6.00
	9	6.00	6.00	6.00	6.00	6.00	6.00
	10	6.00	6.00	6.00	6.00	6.00	6.00
	11	6.00	6.00	6.00	6.00	6.00	6.00
	12	6.00	6.00	6.00	6.00	6.00	6.00
	13	6.00	6.00	6.00	NS	6.00	NS

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

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

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

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 1b Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	40	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	44	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	48	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	52	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	56	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	60	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	64	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	100	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	104	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	108	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	112	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	116	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	120	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	124	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	128	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	132	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	136	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	140	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	144	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	149	3.25	3.25	3.25	3.25	3.25	3.25	3.25
	153	3.25	3.25	3.25	3.25	3.25	3.25	3.25
	157	3.25	3.25	3.25	3.25	3.25	3.25	3.25
	161	3.25	3.25	3.25	3.25	3.25	3.25	3.25
	165	3.25	3.25	3.25	3.25	3.25	3.25	3.25
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	3.75	3.75	3.75	3.75	3.75	3.75
	46		3.75	3.75	3.75	3.75	3.75	3.75
	54		3.75	3.75	3.75	3.75	3.75	3.75
	62		3.75	3.75	3.75	3.75	3.75	3.75
	102		3.00	3.00	3.00	3.00	3.00	3.00
	110		3.00	3.00	3.00	3.00	3.00	3.00
	118		3.00	3.00	3.00	3.00	3.00	3.00
	126		3.00	3.00	3.00	3.00	3.00	3.00
	134		3.00	3.00	3.00	3.00	3.00	3.00
	142		3.00	3.00	3.00	3.00	3.00	3.00
	151		3.25	3.25	3.25	3.25	3.25	3.25
	159		3.25	3.25	3.25	3.25	3.25	3.25
5 GHz WIFI 80 MHz Bandwidth	42		3.75	3.75	3.75	3.75	3.75	3.75
	58		3.75	3.75	3.75	3.75	3.75	3.75
	106		3.00	3.00	3.00	3.00	3.00	3.00
	122		3.00	3.00	3.00	3.00	3.00	3.00
	138		3.00	3.00	3.00	3.00	3.00	3.00
	155		3.25	3.25	3.25	3.25	3.25	3.25
5 GHz WIFI 160 MHz Bandwidth	50		3.75	3.75	3.75	3.75	3.75	3.75
	114		3.00	3.00	3.00	3.00	3.00	3.00

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 3a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	40	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	44	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	48	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	52	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	56	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	60	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	64	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	100	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	104	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	108	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	112	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	116	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	120	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	124	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	128	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	132	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	136	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	140	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	144	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	149	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	153	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	157	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	161	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	165	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	4.00	4.00	4.00	4.00	4.00	4.00
	46		4.00	4.00	4.00	4.00	4.00	4.00
	54		4.00	4.00	4.00	4.00	4.00	4.00
	62		4.00	4.00	4.00	4.00	4.00	4.00
	102		3.50	3.50	3.50	3.50	3.50	3.50
	110		3.50	3.50	3.50	3.50	3.50	3.50
	118		3.50	3.50	3.50	3.50	3.50	3.50
	126		3.50	3.50	3.50	3.50	3.50	3.50
	134		3.50	3.50	3.50	3.50	3.50	3.50
	142		3.50	3.50	3.50	3.50	3.50	3.50
	151		3.50	3.50	3.50	3.50	3.50	3.50
	159		3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 80 MHz Bandwidth	42		4.00	4.00	4.00	4.00	4.00	4.00
	58		4.00	4.00	4.00	4.00	4.00	4.00
	106		3.50	3.50	3.50	3.50	3.50	3.50
	122		3.50	3.50	3.50	3.50	3.50	3.50
	138		3.50	3.50	3.50	3.50	3.50	3.50
	155		3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 160 MHz Bandwidth	50		4.00	4.00	4.00	4.00	4.00	4.00
	114		3.50	3.50	3.50	3.50	3.50	3.50

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4 and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c Tolerance (+0/-3 dB)						
		SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	40	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	44	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	48	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	52	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	56	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	60	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	64	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	100	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	104	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	108	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	112	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	116	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	120	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	124	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	128	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	132	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	136	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	140	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	144	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	149	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	153	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	157	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	161	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	165	7.50	7.50	7.50	7.50	7.50	7.50	7.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	9.25	9.25	9.25	9.25	9.25	9.25
	46		9.25	9.25	9.25	9.25	9.25	9.25
	54		9.25	9.25	9.25	9.25	9.25	9.25
	62		9.25	9.25	9.25	9.25	9.25	9.25
	102		8.00	8.00	8.00	8.00	8.00	8.00
	110		8.00	8.00	8.00	8.00	8.00	8.00
	118		8.00	8.00	8.00	8.00	8.00	8.00
	126		8.00	8.00	8.00	8.00	8.00	8.00
	134		8.00	8.00	8.00	8.00	8.00	8.00
	142		8.00	8.00	8.00	8.00	8.00	8.00
	151		7.50	7.50	7.50	7.50	7.50	7.50
	159		7.50	7.50	7.50	7.50	7.50	7.50
5 GHz WIFI 80 MHz Bandwidth	42		9.25	9.25	9.25	9.25	9.25	9.25
	58		9.25	9.25	9.25	9.25	9.25	9.25
	106		8.00	8.00	8.00	8.00	8.00	8.00
	122		8.00	8.00	8.00	8.00	8.00	8.00
	138		8.00	8.00	8.00	8.00	8.00	8.00
	155		7.50	7.50	7.50	7.50	7.50	7.50
5 GHz WIFI 160 MHz Bandwidth	50		9.25	9.25	9.25	9.25	9.25	9.25
	114		8.00	8.00	8.00	8.00	8.00	8.00

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	3.50	3.50	3.50	3.50
	5	3.50	3.50	3.50	3.50
	9-29	3.50	3.50	3.50	3.50
	33-61	3.50	3.50	3.50	3.50
	65-85	4.50	4.50	4.50	4.50
	89	4.50	4.50	4.50	4.50
	93	4.50	4.50	4.50	4.50
	97-113	NS	NS	NS	NS
	117-181	4.00	4.00	4.00	4.00
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	3.50	3.50	3.50
	11		3.50	3.50	3.50
	19-27		3.50	3.50	3.50
	35-59		3.50	3.50	3.50
	67-75		4.50	4.50	4.50
	83		4.50	4.50	4.50
	91		4.50	4.50	4.50
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		4.00	4.00	4.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		3.50	3.50	3.50
	23		3.50	3.50	3.50
	39-55		3.50	3.50	3.50
	71		4.50	4.50	4.50
	87		4.50	4.50	4.50
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		4.00	4.00	4.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		3.50	3.50	3.50
	47		3.50	3.50	3.50
	79		4.50	4.50	4.50
	111		NS	NS	NS
	143		4.00	4.00	4.00
	175		NS	NS	NS
	207		NS	NS	NS

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	3.50	3.50	1.00	3.50
	5	3.50	3.50	1.00	3.50
	9-29	3.50	3.50	1.00	3.50
	33-61	3.50	3.50	1.25	3.50
	65-85	4.50	4.50	1.50	4.25
	89	4.50	4.50	1.50	4.25
	93	4.50	4.50	1.50	4.25
	97-113	4.75	4.75	1.50	4.25
	117-181	4.00	4.00	0.25	3.25
	185	4.00	4.00	0.25	3.25
	189-225	4.25	4.25	0.75	3.25
	229	4.25	4.25	0.75	3.25
	233	4.25	4.25	0.75	3.25
6 GHz WIFI LP 40MHz BW	3	[redacted]	3.50	3.50	3.50
	11		3.50	3.50	3.50
	19-27		3.50	3.50	3.50
	35-59		3.50	3.50	3.50
	67-75		4.50	4.50	4.50
	83		4.50	4.50	4.50
	91		4.50	4.50	4.50
	99-107		4.75	4.50	4.75
	115		4.75	3.25	4.75
	123-179		4.00	3.25	4.00
	187		4.00	3.25	4.00
	195-219		6.00	3.75	6.00
	227		6.00	3.75	6.00
6 GHz WIFI LP 80MHz BW	7		3.50	3.50	3.50
	23		3.50	3.50	3.50
	39-55		3.50	3.50	3.50
	71		4.50	4.50	4.50
	87		4.50	4.50	4.50
	103		4.75	4.75	4.75
	119		4.75	4.75	4.75
	135-167		4.00	4.00	4.00
	183		4.00	4.00	4.00
	199		6.00	6.00	6.00
	215		6.00	6.00	6.00
6 GHz WIFI LP 160MHz BW	15		3.50	3.50	3.50
	47		3.50	3.50	3.50
	79		4.50	4.50	4.50
	111		4.75	4.75	4.75
	143		4.00	4.00	4.00
	175		4.00	4.00	4.00
	207		6.00	6.00	6.00

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Tabel below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	2.50	2.50	2.50	2.50
	5	2.50	2.50	2.50	2.50
	9-29	2.50	2.50	2.50	2.50
	33-61	2.50	2.50	2.50	2.50
	65-85	2.00	2.00	2.00	2.00
	89	2.00	2.00	2.00	2.00
	93	2.00	2.00	2.00	2.00
	97-113	NS	NS	NS	NS
	117-181	1.50	1.50	1.50	1.50
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	2.50	2.50	2.50
	11		2.50	2.50	2.50
	19-27		2.50	2.50	2.50
	35-59		2.50	2.50	2.50
	67-75		2.00	2.00	2.00
	83		2.00	2.00	2.00
	91		2.00	2.00	2.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		1.50	1.50	1.50
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		2.50	2.50	2.50
	23		2.50	2.50	2.50
	39-55		2.50	2.50	2.50
	71		2.00	2.00	2.00
	87		2.00	2.00	2.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		1.50	1.50	1.50
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		2.50	2.50	2.50
	47		2.50	2.50	2.50
	79		2.00	2.00	2.00
	111		NS	NS	NS
	143		1.50	1.50	1.50
	175		NS	NS	NS

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	2.50	2.50	1.00	2.50
	5	2.50	2.50	1.00	2.50
	9-29	2.50	2.50	1.00	2.50
	33-61	2.50	2.50	1.25	2.50
	65-85	2.00	2.00	1.50	2.00
	89	2.00	2.00	1.50	2.00
	93	2.00	2.00	1.50	2.00
	97-113	2.25	2.25	1.50	2.25
	117-181	1.50	1.50	0.25	1.50
	185	1.50	1.50	0.25	1.50
	189-225	2.00	2.00	0.75	2.00
	229	2.00	2.00	0.75	2.00
	233	2.00	2.00	0.75	2.00
6 GHz WIFI LP 40MHz BW	3	[redacted]	2.50	2.50	2.50
	11		2.50	2.50	2.50
	19-27		2.50	2.50	2.50
	35-59		2.50	2.50	2.50
	67-75		2.00	2.00	2.00
	83		2.00	2.00	2.00
	91		2.00	2.00	2.00
	99-107		2.25	2.25	2.25
	115		2.25	2.25	2.25
	123-179		1.50	1.50	1.50
	187		1.50	1.50	1.50
	195-219		2.00	2.00	2.00
	227		2.00	2.00	2.00
6 GHz WIFI LP 80MHz BW	7		2.50	2.50	2.50
	23		2.50	2.50	2.50
	39-55		2.50	2.50	2.50
	71		2.00	2.00	2.00
	87		2.00	2.00	2.00
	103		2.25	2.25	2.25
	119		2.25	2.25	2.25
	135-167		1.50	1.50	1.50
	183		1.50	1.50	1.50
	199		2.00	2.00	2.00
	215		2.00	2.00	2.00
6 GHz WIFI LP 160MHz BW	15		2.50	2.50	2.50
	47		2.50	2.50	2.50
	79		2.00	2.00	2.00
	111		2.25	2.25	2.25
	143		1.50	1.50	1.50
	175		1.50	1.50	1.50
	207		2.00	2.00	2.00

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4 and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

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

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	1.00	4.00
	5	6.50	6.50	1.00	4.00
	9-29	6.50	6.50	1.00	4.00
	33-61	6.50	6.50	1.25	4.25
	65-85	6.50	6.50	1.50	4.25
	89	6.50	6.50	1.50	4.25
	93	6.50	6.50	1.50	4.25
	97-113	6.50	6.50	1.50	4.25
	117-181	5.00	5.00	0.25	3.25
	185	4.25	4.25	0.25	3.25
	189-225	4.25	4.25	0.75	3.25
	229	4.25	4.25	0.75	3.25
	233	4.25	4.25	0.75	3.25
6 GHz WIFI LP 40MHz BW	3	[redacted]	7.25	4.00	7.00
	11		7.25	4.00	7.00
	19-27		7.25	4.00	7.00
	35-59		7.25	4.25	7.25
	67-75		6.75	4.50	6.75
	83		6.75	4.50	6.75
	91		6.75	4.50	6.75
	99-107		6.75	4.50	6.75
	115		6.75	3.25	6.25
	123-179		6.00	3.25	6.00
	187		6.00	3.25	6.00
	195-219		5.75	3.75	5.75
	227		5.75	3.75	5.75
6 GHz WIFI LP 80MHz BW	7		7.25	7.00	7.25
	23		6.75	6.75	6.75
	39-55		7.25	7.25	7.25
	71		6.75	6.75	6.75
	87		6.75	6.75	6.75
	103		6.75	6.75	6.75
	119		6.75	6.25	6.75
	135-167		6.00	6.00	6.00
	183		6.00	6.00	6.00
	199		5.75	5.75	5.75
	215		5.75	5.75	5.75
6 GHz WIFI LP 160MHz BW	15		7.25	7.25	7.25
	47		7.25	7.25	7.25
	79		6.75	6.75	6.75
	111		6.75	6.75	6.75
	143		6.00	6.00	6.00
	175		5.75	5.75	5.75
	207		5.75	5.75	5.75

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.4 Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
Bluetooth BDR	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth EDR	Maximum	**13.00**	**7.00**
	Nominal	**11.50**	**5.50**
Bluetooth LE	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth HDR4	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**
Bluetooth HDR8	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth EDR	Maximum	**13.00**	**7.00**
	Nominal	**11.50**	**5.50**
Bluetooth LE	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth HDR4	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**
Bluetooth HDR8	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
Bluetooth BDR	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth EDR	Maximum	**13.00**	**7.00**
	Nominal	**11.50**	**5.50**
Bluetooth LE	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth HDR4	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**
Bluetooth HDR8	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth EDR	Maximum	**13.00**	**7.00**
	Nominal	**11.50**	**5.50**
Bluetooth LE	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**
Bluetooth HDR4	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**
Bluetooth HDR8	Maximum	**13.00**	**5.00**
	Nominal	**11.50**	**3.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.5 Bluetooth Reduced Output Power

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 1b and wPT active
-Simultaneous conditions with 5/6 GHz WLAN Antenna 1b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
Bluetooth BDR	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth EDR	Maximum	**8.50**	**7.00**
	Nominal	**7.00**	**5.50**
Bluetooth LE	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth HDR4	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**
Bluetooth HDR8	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth EDR	Maximum	**8.50**	**7.00**
	Nominal	**7.00**	**5.50**
Bluetooth LE	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth HDR4	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**
Bluetooth HDR8	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 5/6GHz WLAN Antenna 1b, and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
Bluetooth BDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth LE	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth HDR4	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**
Bluetooth HDR8	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth LE	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth HDR4	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**
Bluetooth HDR8	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 5/6 GHz WLAN Antenna 3a/3c and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Antenna 3a/3c and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
Bluetooth BDR	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth EDR	Maximum	**8.50**	**7.00**
	Nominal	**7.00**	**5.50**
Bluetooth LE	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth HDR4	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**
Bluetooth HDR8	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth EDR	Maximum	**8.50**	**7.00**
	Nominal	**7.00**	**5.50**
Bluetooth LE	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**
Bluetooth HDR4	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**
Bluetooth HDR8	Maximum	**8.50**	**5.00**
	Nominal	**7.00**	**3.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 3a/3c and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
Bluetooth BDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth LE	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth HDR4	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**
Bluetooth HDR8	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth LE	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth HDR4	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**
Bluetooth HDR8	Maximum	**6.00**	**5.00**
	Nominal	**4.50**	**3.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.6 Thread Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**13.50**	**10.50**
	Nominal	**12.00**	**9.00**

1.4.7 Thread Reduced Output Power

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 1b and wPT active
-Simultaneous conditions with 5/6 GHz WLAN Antenna 1b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 5/6GHz WLAN Antenna 1b, and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 5/6 GHz WLAN Antenna 3a/3c and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Antenna 3a/3c and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 3a/3c and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**

1.4.8 NB UNII Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**10.00**	**3.00**
	Nominal	**8.50**	**1.50**
NB UNII-1 HDR4	Maximum	**10.50**	**-2.00**
	Nominal	**9.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**10.50**	**-2.00**
	Nominal	**9.00**	**-3.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**10.50**	**3.00**
	Nominal	**9.00**	**1.50**
NB UNII-3 HDR4	Maximum	**10.50**	**-2.00**
	Nominal	**9.00**	**-3.50**
NB UNII-3 HDR8	Maximum	**10.50**	**-2.00**
	Nominal	**9.00**	**-3.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**
NB UNII-1 HDR4	Maximum	**12.50**	**-1.50**
	Nominal	**11.00**	**-3.00**
NB UNII-1 HDR8	Maximum	**12.50**	**-1.50**
	Nominal	**11.00**	**-3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**7.00**	**3.50**
	Nominal	**5.50**	**2.00**
NB UNII-1 HDR4	Maximum	**9.50**	**-1.50**
	Nominal	**8.00**	**-3.00**
NB UNII-1 HDR8	Maximum	**12.00**	**-1.50**
	Nominal	**10.50**	**-3.00**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**12.50**	**3.50**
	Nominal	**11.00**	**2.00**
NB UNII-3 HDR4	Maximum	**12.50**	**-1.50**
	Nominal	**11.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**12.50**	**-1.50**
	Nominal	**11.00**	**-3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**12.50**	**3.50**
	Nominal	**11.00**	**2.00**
NB UNII-3 HDR4	Maximum	**12.50**	**-1.50**
	Nominal	**11.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**12.50**	**-1.50**
	Nominal	**11.00**	**-3.00**

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**
NB UNII-1 HDR4	Maximum	**12.50**	**-1.00**
	Nominal	**11.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**7.00**	**4.50**
	Nominal	**5.50**	**3.00**
NB UNII-1 HDR4	Maximum	**9.50**	**-1.00**
	Nominal	**8.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**12.00**	**-1.00**
	Nominal	**10.50**	**-2.50**

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**13.50**	**4.50**
	Nominal	**12.00**	**3.00**
NB UNII-3 HDR4	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**13.50**	**4.50**
	Nominal	**12.00**	**3.00**
NB UNII-3 HDR4	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.4.9 NB UNII Reduced Output Power

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 2.4 GHz WLAN Antenna 1a and wPT active
-Simultaneous conditions with 2.4 GHz WLAN Antenna 1a and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**6.00**	**3.00**
	Nominal	**4.50**	**1.50**
NB UNII-1 HDR4	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**6.00**	**3.00**
	Nominal	**4.50**	**1.50**
NB UNII-3 HDR4	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**
NB UNII-3 HDR8	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 2.4 GHz WLAN Antenna 1a and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**3.50**	**3.00**
	Nominal	**2.00**	**1.50**
NB UNII-1 HDR4	Maximum	**3.50**	**-2.00**
	Nominal	**2.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**3.50**	**-2.00**
	Nominal	**2.00**	**-3.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**3.50**	**3.00**
	Nominal	**2.00**	**1.50**
NB UNII-3 HDR4	Maximum	**3.50**	**-2.00**
	Nominal	**2.00**	**-3.50**
NB UNII-3 HDR8	Maximum	**3.50**	**-2.00**
	Nominal	**2.00**	**-3.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 2.4 GHz WLAN Antenna 3a and wPT active
-Simultaneous conditions with 2.4 GHz WLAN Antenna 3a and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**
NB UNII-1 HDR4	Maximum	**10.50**	**-1.50**
	Nominal	**9.00**	**-3.00**
NB UNII-1 HDR8	Maximum	**10.50**	**-1.50**
	Nominal	**9.00**	**-3.00**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**7.00**	**3.50**
	Nominal	**5.50**	**2.00**
NB UNII-1 HDR4	Maximum	**9.50**	**-1.50**
	Nominal	**8.00**	**-3.00**
NB UNII-1 HDR8	Maximum	**10.50**	**-1.50**
	Nominal	**9.00**	**-3.00**

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**8.00**	**3.50**
	Nominal	**6.50**	**2.00**
NB UNII-3 HDR4	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**
NB UNII-3 HDR8	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**8.00**	**3.50**
	Nominal	**6.50**	**2.00**
NB UNII-3 HDR4	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**
NB UNII-3 HDR8	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 2.4 GHz WLAN Antenna 3a and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**8.00**	**3.50**
	Nominal	**6.50**	**2.00**
NB UNII-1 HDR4	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**
NB UNII-1 HDR8	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**7.00**	**3.50**
	Nominal	**5.50**	**2.00**
NB UNII-1 HDR4	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**
NB UNII-1 HDR8	Maximum	**8.00**	**-1.50**
	Nominal	**6.50**	**-3.00**

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**5.50**	**3.50**
	Nominal	**4.00**	**2.00**
NB UNII-3 HDR4	Maximum	**5.50**	**-1.50**
	Nominal	**4.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**5.50**	**-1.50**
	Nominal	**4.00**	**-3.00**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**5.50**	**3.50**
	Nominal	**4.00**	**2.00**
NB UNII-3 HDR4	Maximum	**5.50**	**-1.50**
	Nominal	**4.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**5.50**	**-1.50**
	Nominal	**4.00**	**-3.00**

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

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 2.4 GHz WLAN Antenna 3a and wPT active
-Simultaneous conditions with 2.4 GHz WLAN Antenna 3a and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**
NB UNII-1 HDR4	Maximum	**12.50**	**-1.00**
	Nominal	**11.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**12.50**	**-1.00**
	Nominal	**11.00**	**-2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**7.00**	**4.50**
	Nominal	**5.50**	**3.00**
NB UNII-1 HDR4	Maximum	**9.50**	**-1.00**
	Nominal	**8.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**12.00**	**-1.00**
	Nominal	**10.50**	**-2.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**11.50**	**4.50**
	Nominal	**10.00**	**3.00**
NB UNII-3 HDR4	Maximum	**11.50**	**-1.00**
	Nominal	**10.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**11.50**	**-1.00**
	Nominal	**10.00**	**-2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**11.50**	**4.50**
	Nominal	**10.00**	**3.00**
NB UNII-3 HDR4	Maximum	**11.50**	**-1.00**
	Nominal	**10.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**11.50**	**-1.00**
	Nominal	**10.00**	**-2.50**

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

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 2.4 GHz WLAN Antenna 3a and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**
NB UNII-1 HDR4	Maximum	**10.00**	**-1.00**
	Nominal	**8.50**	**-2.50**
NB UNII-1 HDR8	Maximum	**10.00**	**-1.00**
	Nominal	**8.50**	**-2.50**

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**7.00**	**4.50**
	Nominal	**5.50**	**3.00**
NB UNII-1 HDR4	Maximum	**9.50**	**-1.00**
	Nominal	**8.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**10.00**	**-1.00**
	Nominal	**8.50**	**-2.50**

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**9.00**	**4.50**
	Nominal	**7.50**	**3.00**
NB UNII-3 HDR4	Maximum	**9.00**	**-1.00**
	Nominal	**7.50**	**-2.50**
NB UNII-3 HDR8	Maximum	**9.00**	**-1.00**
	Nominal	**7.50**	**-2.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**9.00**	**4.50**
	Nominal	**7.50**	**3.00**
NB UNII-3 HDR4	Maximum	**9.00**	**-1.00**
	Nominal	**7.50**	**-2.50**
NB UNII-3 HDR8	Maximum	**9.00**	**-1.00**
	Nominal	**7.50**	**-2.50**

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1.5 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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

1.6 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

Table 1-6
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	2.4 GHz WI-FI MIMO + WPT	Yes
2	5/6 GHz WI-FI MIMO + WPT	Yes
3	2.4 GHz Bluetooth (TXBF) + WPT	Yes
4	NB UNII (TXBF) + WPT	Yes
5	Cellular Band + 2.4 GHz WI-FI + WPT	Yes
6	Cellular Band + 5/6 GHz WI-FI + WPT	Yes
7	Cellular Band + 2.4 GHz Bluetooth + WPT	Yes
8	Cellular Band + 802.15.4 + WPT	Yes
9	Cellular Band + 2.4 GHz WI-FI MIMO + WPT	Yes
10	Cellular Band + 5/6 GHz WI-FI MIMO + WPT	Yes
11	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
12	Cellular Band + 802.15.4 + 5/6 GHz WI-FI + WPT	Yes
13	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
14	Cellular Band + 802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
15	2.4 GHz Bluetooth + 5 GHz WI-FI + WPT	Yes
16	802.15.4 + 5 GHz WI-FI + WPT	Yes
17	2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
18	802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
19	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
20	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
21	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
22	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
23	Cellular Band + NB UNII + WPT	Yes
24	Cellular Band + NB UNII+ 2.4 GHz WI-FI + WPT	Yes
25	Cellular Band + NB UNII+ 2.4 GHz WI-FI MIMO + WPT	Yes
26	NB UNII + 2.4 GHz WI-FI + WPT	Yes
27	NB UNII + 2.4 GHz WI-FI MIMO + WPT	Yes
28	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
29	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
30	Cellular Band + NB UNII (TXBF) + WPT	Yes
31	Cellular Band + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
32	2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
33	2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes
34	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
35	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 1-7
Simultaneous Transmission Scenarios of Inter-Band ULCA

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 3b LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1b MB/HB: LTE B2/4/7/30/66
2	Cellular Ant 3b LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
3	Cellular Ant 3b LB + Cellular Ant 3a MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3a MB/HB: LTE B2/4/7/30/66
4	Cellular Ant 3b LB + Cellular Ant 4 MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4 MB/HB: LTE B2/4/7/30/66
5	Cellular Ant 4 LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1b MB/HB: LTE B2/4/7/30/66
6	Cellular Ant 4 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
7	Cellular Ant 4 LB + Cellular Ant 3a MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3a MB/HB: LTE B2/4/7/30/66

Note: The technical description includes all the possible Inter-band ULCA combinations.

Table 1-8
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz WI-FI + WPT	Yes
2	LTE Inter-Band ULCA + 5/6 GHz WI-FI + WPT	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + WPT	Yes
4	LTE Inter-Band ULCA + 802.15.4 + WPT	Yes
5	LTE Inter-Band ULCA + 2.4 GHz WI-FI MIMO + WPT	Yes
6	LTE Inter-Band ULCA + 5/6 GHz WI-FI MIMO + WPT	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
8	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz WI-FI + WPT	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
10	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
11	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
12	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
13	LTE Inter-Band ULCA + NB UNII + WPT	Yes
14	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz WI-FI + WPT	Yes
15	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz WI-FI MIMO + WPT	Yes
16	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
17	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
18	LTE Inter-Band ULCA + NB UNII (TXBF) + WPT	Yes
19	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
21	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in Table 1-9

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas. Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario, Wi-Fi max power will not exceed minimum of (13.5 dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
3. Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
4. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
7. This device supports VoWIFI.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna 1b, Antenna 3a and Antenna 3c. Additional testing for U-NII-1 Antenna 1b, Antenna 3a and Antenna 3c 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. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth/802.15.4/NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth/802.15.4/NB UNII configurations.

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

This device supports IEEE 802.11ac with the following features:
a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) 3 Tx antenna output
c) 256 QAM is supported
d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:
a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) Up to 20 MHz Bandwidth only for 2.4 GHz
c) No aggregate channel configurations
d) 3 Tx antenna output
e) Up to 1024 QAM is supported
f) TDWR and Band gap channels are supported for 5 GHz
g) MU-MIMO UL Operations are not supported

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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%.

(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in LTE DLCA RF Conducted Powers Appendix.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41 and NR Band n41/77. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 48, LTE Band 5, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/14/66 with two component carriers in the uplink.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.9 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 10.

1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2311270064-01.BCG
RF Exposure Part 2 Test Report	1C2311270064-03.BCG
RF Exposure Compliance Summary Report	1C2311270064-04.BCG

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Tablet				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A		793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)		2405 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Carrier Aggregation Possible	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 15 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

NR Information						
Form Factor	Tablet					
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz) NR Band n12 (701.5 - 713.5 MHz) NR Band n14 (790.5 - 795.5 MHz) NR Band n26 (Cell) (816.5 - 846.5 MHz) NR Band n5 (Cell) (826.5 - 846.5 MHz) NR Band n70 (1697.5 - 1707.5 MHz) NR Band n66 (AWS) (1712.5 - 1777.5 MHz) NR Band n25 (PCS) (1852.5 - 1912.5 MHz) NR Band n2 (PCS) (1852.5 - 1907.5 MHz) NR Band n30 (2307.5 - 2312.5 MHz) NR Band n7 (2502.5 - 2567.5 MHz) NR Band n41 (2501.01 - 2685 MHz) NR Band n48 (3555.0 - 3694.98 MHz) NR Band n77 DoD (3455.01 - 3544.98 MHz) NR Band n77 C (3705.0 - 3975.0 MHz)						
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n12: 5 MHz, 10 MHz, 15 MHz NR Band n14: 5 MHz, 10 MHz NR Band n26 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n70: 5 MHz, 10 MHz, 15 MHz NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n30: 5 MHz, 10 MHz NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz NR Band n41: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n48: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n77 C: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz						
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid		Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)	
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)		693 (138600)	
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)	
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)	
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)	
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)	
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)	
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)	
NR Band n14: 10 MHz	N/A		793 (158600)		N/A	
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)	
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)	
NR Band n26 (Cell): 15 MHz	821.5 (164300)		831.5 (166300)		841.5 (168300)	
NR Band n26 (Cell): 20 MHz	N/A		831.5 (166300)		N/A	
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)	
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)	
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)	
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)	
NR Band n70: 5 MHz	1697.5 (339500)		1702.5 (340500)		1707.5 (341500)	
NR Band n70: 10 MHz	1700 (340000)		1702.5 (340500)		1705 (341000)	
NR Band n70: 15 MHz	N/A		1702.5 (340500)		N/A	
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)	
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)	
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)	
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)	
NR Band n66 (AWS): 25 MHz	1722.5 (344500)		1745 (349000)		1767.5 (353500)	
NR Band n66 (AWS): 30 MHz	1725 (345000)		1745 (349000)		1765 (353000)	
NR Band n66 (AWS): 35 MHz	1727.5 (345500)		1745 (349000)		1762.5 (352500)	
NR Band n66 (AWS): 40 MHz	1730 (346000)		1745 (349000)		1760 (352000)	
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)	
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)	
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)	
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)	
NR Band n25 (PCS): 30 MHz	1865 (373000)		1882.5 (376500)		1900 (380000)	
NR Band n25 (PCS): 35 MHz	1867.5 (373500)		1882.5 (376500)		1897.5 (379500)	
NR Band n25 (PCS): 40 MHz	1870 (374000)		1882.5 (376500)		1895 (379000)	
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)	
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)	
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)	
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)	
NR Band n30: 5 MHz	2307.5 (461500)		2310 (462000)		2312.5 (462500)	
NR Band n30: 10 MHz	N/A		2310 (462000)		N/A	
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)	
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)	
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)	
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)	
NR Band n7: 25 MHz	2512.5 (502500)		2535 (507000)		2557.5 (511500)	
NR Band n7: 30 MHz	2515 (503000)		2535 (507000)		2555 (511000)	
NR Band n7: 35 MHz	2517.5 (503500)		2535 (507000)		2552.5 (511500)	
NR Band n7: 40 MHz	2520 (504000)		2535 (507000)		2550 (510000)	
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)		2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)		2637.75 (527550)	2682.48 (536496)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)		2636.49 (527298)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)		2634 (526800)	2674.98 (534996)
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A		2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)	
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)	
NR Band n41: 70 MHz	2531.01 (506202)		N/A		2655 (531000)	
NR Band n41: 80 MHz	2536.02 (507204)		N/A		2649.99 (529998)	
NR Band n41: 90 MHz	2541 (508200)		N/A		2644.98 (528996)	
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)	
NR Band n48: 10 MHz	3555 (637000)	3601.68 (640112)	N/A		3648.33 (643222)	3694.98 (646332)
NR Band n48: 15 MHz	3557.52 (637168)	3602.49 (640166)	N/A		3647.49 (643166)	3692.49 (646166)
NR Band n48: 20 MHz	3560.01 (637334)	3603.33 (640222)	N/A		3646.68 (643112)	3690 (646000)
NR Band n48: 30 MHz	3565.02 (637668)	3605.01 (640334)	N/A		3645 (643000)	3684.99 (645666)
NR Band n48: 40 MHz	3570 (638000)	N/A	3624.99 (641666)		N/A	3679.98 (645332)
NR Band n77 DoD: 10 MHz	3455.01 (630334)		3500.01 (633334)		3544.98 (636332)	
NR Band n77 DoD: 15 MHz	3457.5 (630500)		3500.01 (633334)		3542.49 (636166)	
NR Band n77 DoD: 20 MHz	3460.02 (630668)		3500.01 (633334)		3540 (636000)	
NR Band n77 DoD: 30 MHz	3465 (631000)		3500.01 (633334)		3534.99 (635666)	
NR Band n77 DoD: 40 MHz	3470.01 (631334)		N/A		3529.98 (635332)	
NR Band n77 DoD: 50 MHz	3475.02 (631668)		N/A		3525 (635000)	
NR Band n77 DoD: 60 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 70 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 80 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 90 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 100 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 C: 10 MHz	3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)	3921 (661400)	3975 (665000)
NR Band n77 C: 15 MHz	3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	3866.49 (657766)	3919.5 (661300)	3972.48 (664832)
NR Band n77 C: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
NR Band n77 C: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)	3964.98 (664332)
NR Band n77 C: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
NR Band n77 C: 50 MHz	3725.01 (648334)	3762.49 (652166)	3840 (656000)		3897.51 (659834)	3954.99 (663666)
NR Band n77 C: 60 MHz	3730.02 (648668)	3803.34 (653556)	N/A	N/A	3876.66 (659444)	3949.98 (663332)
NR Band n77 C: 70 MHz	3735 (649000)	3804.99 (653666)	N/A		3875.01 (658334)	3945 (663000)
NR Band n77 C: 80 MHz	3740.01 (649334)	N/A	3840 (656000)		N/A	3939.99 (662666)
NR Band n77 C: 90 MHz	3745.02 (649668)	N/A	3840 (656000)		N/A	3934.98 (662332)
NR Band n77 C: 100 MHz	3750 (650000)	N/A	N/A	N/A	N/A	3930 (662000)
SCS for NR Band	15 kHz					
SCS for NR Band n41/n48/n77 DoD/n77 C	30 kHz					
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Anchor Bands for NR Band n71	LTE Band 66/2/7/48					
LTE Anchor Bands for NR Band n12	LTE Band 66/2/30/48					
LTE Anchor Bands for NR Band n14	LTE Band 66/2/30					
LTE Anchor Bands for NR Band n26 (Cell)	N/A					
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 66/2/30/7/48					
LTE Anchor Bands for NR Band n70	N/A					
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 71/12/13/14/5/2/30/7/48					
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66/48					
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 12/13/14/5/66/48					
LTE Anchor Bands for NR Band n30	LTE Band 12/14/5/66					
LTE Anchor Bands for NR Band n7	LTE Band 12/5/66					
LTE Anchor Bands for NR Band n41	LTE Band 12/26/5/66/4/25/2					
LTE Anchor Bands for NR Band n48	LTE Band 71/13/5/66/2					
LTE Anchor Bands for NR Band n77 DoD	LTE Band 71/12/13/14/5/66/2/30/7/41					
LTE Anchor Bands for NR Band n77 C	LTE Band 71/12/13/14/5/66/2/30/7/41					

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

3 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.

3.1 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 3-1).

Equation 3-1
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/m^3)
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]

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

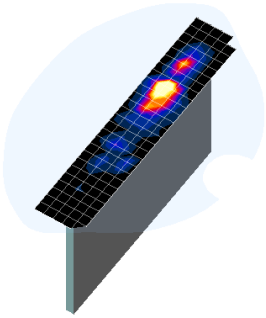


Figure 4-1
Sample SAR Area Scan

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 4-1) 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 4-1) 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 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).

   b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.

   c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

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

*Also compliant to IEEE 1528-2013 Table 6

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

6.3 RF Exposure Limits for Frequencies below 6 GHz

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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT *General Population* (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT *Occupational* (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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

6.4 RF Exposure Limits for Frequencies above 6 GHz

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

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

Table 6-2
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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

7 FCC MEASUREMENT PROCEDURES

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

7.1 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.

7.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in an RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1-gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

Maximum output power is verified on the High, Middle, and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.4.2 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple $DPDCH_n$ configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or $DPDCH_n$, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.3 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.4 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

7.4.5 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

7.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth.
    i. The required channel and offset combination with the highest maximum output power is required for SAR.
    ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
    iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

7.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance with KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.6 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.

7.6.1 General Device Setup

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

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

7.6.2 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.

7.6.3 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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.6.4 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.

7.6.5 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.

7.6.6 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 7.6.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

7.6.7 Subsequent Test Configuration Procedures

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

7.6.8 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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8 RF CONDUCTED POWERS

All conducted power measurements for 3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting Reserve power margin (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (Plimit, maximum tune up output power Pmax).

8.1 UMTS P_{limit} Conducted Powers

Table 8-1
Measured P_{Limit} Antenna 1b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	11.29	11.28	**11.30**	**11.31**	11.28	11.27	-
6	HSDPA	Subtest 1	11.15	11.12	11.18	11.30	11.31	11.41	0
6		Subtest 2	11.13	11.13	11.19	11.32	11.32	11.37	0
6		Subtest 3	10.62	10.63	10.70	10.83	10.81	10.88	0.5
6		Subtest 4	10.63	10.64	10.67	10.82	10.80	10.87	0.5
6	HSUPA	Subtest 1	11.27	11.26	11.28	11.26	11.29	11.34	0
6		Subtest 2	9.16	9.15	9.21	9.31	9.30	9.37	2
6		Subtest 3	10.17	10.22	10.15	10.33	10.29	10.36	1
6		Subtest 4	9.25	9.26	9.27	9.33	9.32	9.38	2
6		Subtest 5	11.28	11.26	11.29	11.36	11.34	11.40	0
8	DC-HSDPA	Subtest 1	11.21	11.23	11.16	11.30	11.33	11.38	0
8		Subtest 2	11.17	11.26	11.17	11.34	11.32	11.35	0
8		Subtest 3	10.65	10.73	10.71	10.83	10.81	10.89	0.5
8		Subtest 4	10.71	10.75	10.72	10.85	10.79	10.88	0.5

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-2
Measured P_{Limit} Antenna 2b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	13.24	12.97	**13.44**	**12.33**	12.22	12.23	-
6	HSDPA	Subtest 1	13.30	13.23	13.40	12.29	12.28	12.18	0
6		Subtest 2	13.29	13.16	13.38	12.28	12.27	12.16	0
6		Subtest 3	12.84	12.69	12.90	11.77	11.76	11.64	0.5
6		Subtest 4	12.80	12.70	12.89	11.76	11.75	11.63	0.5
6	HSUPA	Subtest 1	13.33	13.17	13.37	12.26	12.23	12.16	0
6		Subtest 2	11.30	11.24	11.36	10.25	10.24	10.15	2
6		Subtest 3	12.31	12.21	12.36	11.19	11.26	11.16	1
6		Subtest 4	11.34	11.19	11.36	10.22	10.24	10.17	2
6		Subtest 5	13.34	13.22	13.44	12.32	12.26	12.18	0
8	DC-HSDPA	Subtest 1	13.35	13.21	13.39	12.27	12.27	12.15	0
8		Subtest 2	13.29	13.16	13.40	12.24	12.28	12.14	0
8		Subtest 3	12.84	12.68	12.89	11.74	11.75	11.65	0.5
8		Subtest 4	12.83	12.71	12.87	11.78	11.76	11.64	0.5

Table 8-3
Measured P_{Limit} Antenna 3a

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	12.57	12.72	**12.88**	**13.85**	13.63	13.20	-
6	HSDPA	Subtest 1	12.85	12.64	12.75	13.79	13.58	13.67	0
6		Subtest 2	12.80	12.62	12.71	13.78	13.61	13.68	0
6		Subtest 3	12.32	12.13	12.21	13.31	13.08	12.90	0.5
6		Subtest 4	12.35	12.16	12.23	13.28	13.07	12.92	0.5
6	HSUPA	Subtest 1	12.81	12.62	12.71	13.80	13.56	13.70	0
6		Subtest 2	10.79	10.60	10.71	11.77	11.55	11.50	2
6		Subtest 3	11.79	11.60	11.73	12.77	12.54	12.56	1
6		Subtest 4	10.83	10.62	10.71	11.75	11.55	11.48	2
6		Subtest 5	12.90	12.64	12.79	13.82	13.56	13.71	0
8	DC-HSDPA	Subtest 1	12.86	12.63	12.73	13.81	13.60	13.66	0
8		Subtest 2	12.77	12.55	12.69	13.78	13.55	13.68	0
8		Subtest 3	12.29	12.11	12.24	13.29	13.07	12.91	0.5
8		Subtest 4	12.32	12.10	12.23	13.30	13.05	12.92	0.5

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-4
Measured P_{Limit} Antenna 3b

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	15.49	**15.50**	15.49	-
6	HSDPA	Subtest 1	15.36	15.43	15.42	0
6		Subtest 2	15.32	15.42	15.33	0
6		Subtest 3	14.83	14.87	14.88	0.5
6		Subtest 4	14.80	14.89	14.87	0.5
6	HSUPA	Subtest 1	15.57	15.60	15.56	0
6		Subtest 2	13.59	13.63	13.55	2
6		Subtest 3	14.60	14.63	14.54	1
6		Subtest 4	13.60	13.62	13.56	2
6		Subtest 5	15.61	15.65	15.61	0
8	DC-HSDPA	Subtest 1	15.60	15.62	15.58	0
8		Subtest 2	15.58	15.65	15.56	0
8		Subtest 3	15.08	15.14	15.08	0.5
8		Subtest 4	15.10	15.17	15.08	0.5

Table 8-5
Measured P_{Limit} Antenna 4

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	**18.37**	18.36	18.32	14.25	14.27	**14.28**	13.24	13.20	**13.25**	-
6	HSDPA	Subtest 1	18.40	18.32	18.38	14.34	14.42	14.54	13.20	13.13	13.15	0
6		Subtest 2	18.41	18.43	18.43	14.27	14.36	14.49	13.24	13.16	13.12	0
6		Subtest 3	17.90	17.91	17.92	13.83	13.89	14.00	12.75	12.67	12.62	0.5
6		Subtest 4	17.88	17.95	17.89	13.84	13.90	14.03	12.73	12.69	12.64	0.5
6	HSUPA	Subtest 1	18.40	18.46	18.42	14.33	14.36	14.51	13.22	13.16	13.10	0
6		Subtest 2	16.40	16.44	16.41	12.30	12.37	12.52	11.22	11.19	11.12	2
6		Subtest 3	17.42	17.44	17.38	13.33	13.38	13.51	12.21	12.16	12.06	1
6		Subtest 4	16.43	16.45	16.41	12.32	12.38	12.51	11.24	11.17	11.11	2
6		Subtest 5	18.42	18.47	18.45	14.36	14.44	14.58	13.23	13.16	13.15	0
8	DC-HSDPA	Subtest 1	18.38	18.37	18.36	14.35	14.43	14.53	13.19	13.17	13.14	0
8		Subtest 2	18.34	18.40	18.35	14.31	14.37	14.50	13.17	13.18	13.12	0
8		Subtest 3	17.84	17.89	17.85	13.86	13.89	14.00	12.75	12.67	12.64	0.5
8		Subtest 4	17.83	17.87	17.86	13.84	13.88	14.03	12.73	12.69	12.67	0.5

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA



Figure 8-1
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.2 LTE Conducted Powers

Notes: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in appendix LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.2.1 LTE Band 71

Table 8-6
LTE Band 71 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.14	0	0
	1	50	17.16		0
	1	99	**17.18**		0
	50	0	16.92	0-1	0
	50	25	**16.93**		0
	50	50	16.92		0
	100	0	16.90		0
16QAM	1	0	17.00	0-1	0
	1	50	17.26		0
	1	99	17.05		0
	50	0	16.87	0-2	0
	50	25	16.93		0
	50	50	16.91		0
	100	0	16.93		0
64QAM	1	0	16.96	0-2	0
	1	50	17.27		0
	1	99	17.05		0
	50	0	16.84	0-3	0
	50	25	16.93		0
	50	50	16.90		0
	100	0	16.90		0
256QAM	1	0	16.95	0-5	0
	1	50	17.00		0
	1	99	17.09		0
	50	0	16.89		0
	50	25	16.93		0
	50	50	16.98		0
	100	0	16.89		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-7
LTE Band 71 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.16**	0	0
	1	50	20.13		0
	1	99	20.09		0
	50	0	20.07	0-1	0
	50	25	**20.08**		0
	50	50	20.07		0
	100	0	20.07		0
16QAM	1	0	20.17	0-1	0
	1	50	20.43		0
	1	99	19.98		0
	50	0	19.99	0-2	0
	50	25	20.00		0
	50	50	19.91		0
	100	0	20.01		0
64QAM	1	0	20.04	0-2	0
	1	50	20.16		0
	1	99	19.96		0
	50	0	19.99	0-3	0
	50	25	20.03		0
	50	50	19.93		0
	100	0	20.00		0
256QAM	1	0	20.11	0-5	0
	1	50	20.01		0
	1	99	20.01		0
	50	0	19.97		0
	50	25	20.00		0
	50	50	19.93		0
	100	0	20.00		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.2 LTE Band 12

Table 8-8
LTE Band 12 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	16.85	0	0
	1	25	16.77		0
	1	49	**16.90**		0
	25	0	16.91	0-1	0
	25	12	**16.92**		0
	25	25	16.88		0
	50	0	16.87		0
16QAM	1	0	17.06	0-1	0
	1	25	16.96		0
	1	49	16.92		0
	25	0	16.81	0-2	0
	25	12	16.86		0
	25	25	16.84		0
	50	0	16.85		0
64QAM	1	0	17.00	0-2	0
	1	25	16.92		0
	1	49	16.94		0
	25	0	16.81	0-3	0
	25	12	16.90		0
	25	25	16.83		0
	50	0	16.80		0
256QAM	1	0	16.92	0-5	0
	1	25	16.95		0
	1	49	16.92		0
	25	0	16.79		0
	25	12	16.86		0
	25	25	16.81		0
	50	0	16.85		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-9
LTE Band 12 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23095** **(707.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.10**	0	0
	1	25	19.01		0
	1	49	18.98		0
	25	0	19.03	0-1	0
	25	12	**19.13**		0
	25	25	19.07		0
	50	0	18.84		0
16QAM	1	0	19.19	0-1	0
	1	25	19.15		0
	1	49	19.17		0
	25	0	18.84	0-2	0
	25	12	18.91		0
	25	25	18.88		0
	50	0	18.84		0
64QAM	1	0	19.08	0-2	0
	1	25	19.10		0
	1	49	19.06		0
	25	0	18.86	0-3	0
	25	12	18.97		0
	25	25	18.91		0
	50	0	18.86		0
256QAM	1	0	18.91	0-5	0
	1	25	18.99		0
	1	49	18.88		0
	25	0	18.84		0
	25	12	18.93		0
	25	25	18.91		0
	50	0	18.84		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.3 LTE Band 13

Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	16.06	0	0
	1	25	16.04		0
	1	49	**16.09**		0
	25	0	**16.12**	0-1	0
	25	12	16.11		0
	25	25	16.09		0
	50	0	15.83		0
16QAM	1	0	16.31	0-1	0
	1	25	16.25		0
	1	49	16.27		0
	25	0	16.09	0-2	0
	25	12	16.08		0
	25	25	16.01		0
	50	0	16.03		0
64QAM	1	0	16.34	0-2	0
	1	25	16.27		0
	1	49	16.30		0
	25	0	16.11	0-3	0
	25	12	16.06		0
	25	25	16.10		0
	50	0	16.10		0
256QAM	1	0	16.07	0-5	0
	1	25	16.30		0
	1	49	16.11		0
	25	0	16.04		0
	25	12	16.07		0
	25	25	16.00		0
	50	0	16.05		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-11
LTE Band 13 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.89	0	0
	1	25	18.88		0
	1	49	**18.92**		0
	25	0	19.07	0-1	0
	25	12	**19.16**		0
	25	25	19.11		0
	50	0	18.89		0
16QAM	1	0	19.23	0-1	0
	1	25	19.41		0
	1	49	19.31		0
	25	0	18.92	0-2	0
	25	12	18.95		0
	25	25	18.92		0
	50	0	18.95		0
64QAM	1	0	19.12	0-2	0
	1	25	19.14		0
	1	49	18.99		0
	25	0	18.88	0-3	0
	25	12	18.96		0
	25	25	18.94		0
	50	0	18.93		0
256QAM	1	0	18.89	0-5	0
	1	25	19.13		0
	1	49	18.97		0
	25	0	18.84		0
	25	12	18.95		0
	25	25	18.93		0
	50	0	18.95		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.4 LTE Band 14

Table 8-12
LTE Band 14 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.83	0	0
	1	25	**15.84**		0
	1	49	15.83		0
	25	0	16.02	0-1	0
	25	12	**16.05**		0
	25	25	16.02		0
	50	0	15.83		0
16QAM	1	0	16.10	0-1	0
	1	25	16.06		0
	1	49	15.87		0
	25	0	15.83	0-2	0
	25	12	15.82		0
	25	25	15.78		0
	50	0	15.79		0
64QAM	1	0	15.99	0-2	0
	1	25	15.84		0
	1	49	15.94		0
	25	0	15.74	0-3	0
	25	12	15.82		0
	25	25	15.71		0
	50	0	15.73		0
256QAM	1	0	15.97	0-5	0
	1	25	16.00		0
	1	49	15.86		0
	25	0	15.78		0
	25	12	15.81		0
	25	25	15.76		0
	50	0	15.75		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-13
LTE Band 14 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23330** **(793.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.08**	0	0
	1	25	19.01		0
	1	49	19.05		0
	25	0	19.03	0-1	0
	25	12	**19.13**		0
	25	25	19.10		0
	50	0	18.81		0
16QAM	1	0	19.01	0-1	0
	1	25	19.03		0
	1	49	19.16		0
	25	0	18.74	0-2	0
	25	12	18.79		0
	25	25	18.81		0
	50	0	18.72		0
64QAM	1	0	18.93	0-2	0
	1	25	18.95		0
	1	49	18.98		0
	25	0	18.73	0-3	0
	25	12	18.76		0
	25	25	18.82		0
	50	0	18.72		0
256QAM	1	0	18.69	0-5	0
	1	25	18.81		0
	1	49	18.79		0
	25	0	18.72		0
	25	12	18.73		0
	25	25	18.75		0
	50	0	18.71		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.5 LTE Band 26

Table 8-14
LTE Band 26 (Cell) Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**15.62**	15.60	15.41	0	0
	1	25	15.52	15.42	15.39		0
	1	49	15.57	15.48	15.40		0
	25	0	**15.63**	15.57	15.45	0-1	0
	25	12	15.61	15.50	15.44		0
	25	25	15.60	15.56	15.42		0
	50	0	15.61	15.61	15.54		0
16QAM	1	0	15.56	15.54	15.47	0-1	0
	1	25	15.41	15.53	15.29		0
	1	49	15.46	15.38	15.34		0
	25	0	15.27	15.22	15.13	0-2	0
	25	12	15.38	15.33	15.19		0
	25	25	15.27	15.32	15.18		0
	50	0	15.36	15.27	15.11		0
64QAM	1	0	15.58	15.36	15.28	0-2	0
	1	25	15.62	15.42	15.28		0
	1	49	15.54	15.59	15.21		0
	25	0	15.27	15.20	15.15	0-3	0
	25	12	15.37	15.31	15.24		0
	25	25	15.33	15.27	15.16		0
	50	0	15.34	15.30	15.11		0
256QAM	1	0	15.28	15.32	15.29	0-5	0
	1	25	15.40	15.53	15.35		0
	1	49	15.31	15.36	15.29		0
	25	0	15.27	15.22	15.10		0
	25	12	15.35	15.28	15.17		0
	25	25	15.32	15.25	15.13		0
	50	0	15.30	15.26	15.06		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-15
LTE Band 26 (Cell) Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.40	18.52	18.40	0	0
	1	25	18.38	18.42	18.19		0
	1	49	18.42	**18.59**	18.45		0
	25	0	18.28	18.36	18.33	0-1	0
	25	12	18.29	**18.56**	18.31		0
	25	25	18.28	18.46	18.36		0
	50	0	18.47	18.55	18.39		0
16QAM	1	0	18.48	18.35	18.45	0-1	0
	1	25	18.41	18.35	18.49		0
	1	49	18.35	18.39	18.50		0
	25	0	18.20	18.06	18.12	0-2	0
	25	12	18.29	18.17	18.13		0
	25	25	18.29	18.17	18.14		0
	50	0	18.24	18.18	18.11		0
64QAM	1	0	18.44	18.33	18.29	0-2	0
	1	25	18.34	18.35	18.30		0
	1	49	18.20	18.46	18.45		0
	25	0	18.22	18.10	18.13	0-3	0
	25	12	18.30	18.21	18.13		0
	25	25	18.27	18.20	18.18		0
	50	0	18.25	18.20	18.12		0
256QAM	1	0	18.28	18.17	18.17	0-5	0
	1	25	18.38	18.28	18.30		0
	1	49	18.29	18.24	18.30		0
	25	0	18.20	18.13	18.12		0
	25	12	18.30	18.20	18.13		0
	25	25	18.29	18.18	18.18		0
	50	0	18.23	18.19	18.15		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.6 LTE Band 5

Table 8-16
LTE Band 5 (Cell) Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.61	0	0
	1	25	**15.69**		0
	1	49	15.51		0
	25	0	15.43	0-1	0
	25	12	**15.68**		0
	25	25	15.42		0
	50	0	15.66		0
16QAM	1	0	15.67	0-1	0
	1	25	15.64		0
	1	49	15.65		0
	25	0	15.45	0-2	0
	25	12	15.49		0
	25	25	15.47		0
	50	0	15.44		0
64QAM	1	0	15.63	0-2	0
	1	25	15.69		0
	1	49	15.67		0
	25	0	15.44	0-3	0
	25	12	15.50		0
	25	25	15.45		0
	50	0	15.48		0
256QAM	1	0	15.66	0-5	0
	1	25	15.72		0
	1	49	15.60		0
	25	0	15.38		0
	25	12	15.43		0
	25	25	15.40		0
	50	0	15.43		0

Table 8-17
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} Antenna 3b

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	12	13	15.35	15.43

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-18
LTE Band 5 (Cell) Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.25	0	0
	1	25	18.26		0
	1	49	**18.38**		0
	25	0	18.38	0-1	0
	25	12	18.45		0
	25	25	**18.47**		0
	50	0	18.12		0
16QAM	1	0	18.55	0-1	0
	1	25	18.45		0
	1	49	18.55		0
	25	0	18.18	0-2	0
	25	12	18.23		0
	25	25	18.27		0
	50	0	18.23		0
64QAM	1	0	18.42	0-2	0
	1	25	18.39		0
	1	49	18.35		0
	25	0	18.23	0-3	0
	25	12	18.25		0
	25	25	18.25		0
	50	0	18.21		0
256QAM	1	0	18.26	0-5	0
	1	25	18.34		0
	1	49	18.27		0
	25	0	18.18		0
	25	12	18.26		0
	25	25	18.23		0
	50	0	18.26		0

Table 8-19
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	18.60	18.12

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.7 LTE Band 66

Table 8-20
LTE Band 66 (AWS) Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.85	11.82	11.72	0	0
	1	50	11.90	11.84	11.76		0
	1	99	11.82	**11.94**	11.73		0
	50	0	11.83	11.87	11.70	0-1	0
	50	25	11.90	**11.93**	11.83		0
	50	50	11.91	11.92	11.81		0
	100	0	11.89	11.92	11.75		0
16QAM	1	0	11.70	11.72	11.53	0-1	0
	1	50	11.79	11.73	11.58		0
	1	99	11.72	11.69	11.48		0
	50	0	11.60	11.57	11.45	0-2	0
	50	25	11.58	11.58	11.54		0
	50	50	11.57	11.54	11.48		0
	100	0	11.58	11.56	11.50		0
64QAM	1	0	11.74	11.75	11.70	0-2	0
	1	50	11.74	11.74	11.68		0
	1	99	11.76	11.72	11.64		0
	50	0	11.60	11.56	11.40	0-3	0
	50	25	11.61	11.59	11.48		0
	50	50	11.59	11.54	11.43		0
	100	0	11.60	11.55	11.46		0
256QAM	1	0	11.65	11.67	11.58	0-5	0
	1	50	11.69	11.70	11.55		0
	1	99	11.70	11.74	11.54		0
	50	0	11.47	11.56	11.42		0
	50	25	11.56	11.63	11.43		0
	50	50	11.55	11.60	11.47		0
	100	0	11.56	11.54	11.41		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-21
LTE Band 66 (AWS) Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.31	13.22	13.00	0	0
	1	50	13.29	13.24	13.02		0
	1	99	**13.35**	13.28	13.01		0
	50	0	13.33	13.20	13.21	0-1	0
	50	25	13.35	13.35	13.23		0
	50	50	**13.36**	13.34	13.29		0
	100	0	13.32	13.33	13.19		0
16QAM	1	0	13.30	13.35	13.22	0-1	0
	1	50	13.31	13.39	13.11		0
	1	99	13.33	13.37	13.01		0
	50	0	13.11	13.15	13.05	0-2	0
	50	25	13.21	13.23	13.04		0
	50	50	13.19	13.19	13.04		0
	100	0	13.18	13.21	13.02		0
64QAM	1	0	13.23	13.43	13.24	0-2	0
	1	50	13.23	13.39	13.17		0
	1	99	13.28	13.35	12.95		0
	50	0	13.01	13.16	13.00	0-3	0
	50	25	13.12	13.23	12.98		0
	50	50	13.10	13.19	12.93		0
	100	0	13.09	13.12	12.96		0
256QAM	1	0	13.12	13.22	13.19	0-5	0
	1	50	13.12	13.27	13.01		0
	1	99	13.29	13.25	13.01		0
	50	0	13.04	13.17	13.05		0
	50	25	13.14	13.26	13.02		0
	50	50	13.15	13.27	12.95		0
	100	0	13.12	13.14	12.99		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-22
LTE Band 66 (AWS) Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**12.57**	12.39	12.15	0	0
	1	50	12.55	12.35	12.18		0
	1	99	12.39	12.34	12.17		0
	50	0	12.43	12.36	12.39	0-1	0
	50	25	**12.55**	12.40	12.40		0
	50	50	12.42	12.37	12.47		0
	100	0	12.54	12.41	12.36		0
16QAM	1	0	12.57	12.73	12.53	0-1	0
	1	50	12.59	12.74	12.57		0
	1	99	12.60	12.65	12.52		0
	50	0	12.49	12.44	12.34	0-2	0
	50	25	12.57	12.51	12.44		0
	50	50	12.50	12.43	12.42		0
	100	0	12.55	12.49	12.31		0
64QAM	1	0	12.68	12.69	12.45	0-2	0
	1	50	12.73	12.51	12.56		0
	1	99	12.68	12.56	12.47		0
	50	0	12.47	12.42	12.32	0-3	0
	50	25	12.53	12.49	12.44		0
	50	50	12.47	12.42	12.43		0
	100	0	12.53	12.46	12.33		0
256QAM	1	0	12.59	12.53	12.39	0-5	0
	1	50	12.63	12.55	12.46		0
	1	99	12.62	12.49	12.55		0
	50	0	12.45	12.41	12.31		0
	50	25	12.51	12.49	12.41		0
	50	50	12.51	12.42	12.36		0
	100	0	12.54	12.46	12.31		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-23
LTE Band 66 (AWS) Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.26	14.09	14.23	0	0
	1	50	**14.31**	14.00	14.18		0
	1	99	14.28	14.04	14.13		0
	50	0	**14.35**	14.30	14.20	0-1	0
	50	25	14.34	14.27	14.24		0
	50	50	14.27	14.23	14.17		0
	100	0	14.03	14.02	14.00		0
16QAM	1	0	14.26	14.29	14.17	0-1	0
	1	50	14.33	14.36	14.28		0
	1	99	14.22	14.26	14.16		0
	50	0	14.18	14.03	13.94	0-2	0
	50	25	14.10	13.99	13.91		0
	50	50	14.11	13.96	13.98		0
	100	0	14.08	14.01	13.90		0
64QAM	1	0	14.21	14.20	14.03	0-2	0
	1	50	14.46	14.20	14.23		0
	1	99	14.32	14.18	13.91		0
	50	0	14.19	14.01	13.90	0-3	0
	50	25	14.13	14.01	13.94		0
	50	50	14.07	13.97	13.97		0
	100	0	14.11	13.98	13.94		0
256QAM	1	0	14.27	14.08	13.99	0-5	0
	1	50	14.33	14.11	14.06		0
	1	99	14.32	14.10	14.08		0
	50	0	14.19	13.97	13.91		0
	50	25	14.10	13.98	13.92		0
	50	50	14.03	13.96	13.95		0
	100	0	14.09	13.99	13.93		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.8 LTE Band 25

Table 8-24
LTE Band 25 (PCS) Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.42	11.62	11.45	0	0
	1	50	11.46	**11.64**	11.46		0
	1	99	11.45	11.58	11.44		0
	50	0	11.50	11.59	11.44	0-1	0
	50	25	11.56	**11.63**	11.43		0
	50	50	11.51	11.54	11.48		0
	100	0	11.53	11.55	11.42		0
16QAM	1	0	11.79	11.65	11.80	0-1	0
	1	50	11.89	11.75	11.95		0
	1	99	11.82	11.69	11.84		0
	50	0	11.62	11.60	11.59	0-2	0
	50	25	11.68	11.56	11.57		0
	50	50	11.69	11.66	11.63		0
	100	0	11.66	11.55	11.56		0
64QAM	1	0	11.62	11.67	11.63	0-2	0
	1	50	11.78	11.79	11.65		0
	1	99	11.71	11.71	11.58		0
	50	0	11.54	11.59	11.52	0-3	0
	50	25	11.60	11.65	11.54		0
	50	50	11.63	11.65	11.56		0
	100	0	11.59	11.65	11.50		0
256QAM	1	0	11.54	11.67	11.61	0-5	0
	1	50	11.63	11.73	11.66		0
	1	99	11.73	11.79	11.67		0
	50	0	11.49	11.54	11.45		0
	50	25	11.58	11.64	11.48		0
	50	50	11.60	11.63	11.53		0
	100	0	11.57	11.62	11.49		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-25
LTE Band 25 (PCS) Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.14	13.22	13.10	0	0
	1	50	13.22	13.30	**13.31**		0
	1	99	13.12	13.20	13.13		0
	50	0	13.21	13.14	13.13	0-1	0
	50	25	13.20	13.20	**13.22**		0
	50	50	13.17	13.17	13.20		0
	100	0	13.19	13.20	13.15		0
16QAM	1	0	13.43	13.24	13.40	0-1	0
	1	50	13.47	13.34	13.42		0
	1	99	13.41	13.20	13.36		0
	50	0	13.30	13.19	13.08	0-2	0
	50	25	13.30	13.26	13.07		0
	50	50	13.32	13.24	13.15		0
	100	0	13.25	13.20	13.03		0
64QAM	1	0	13.23	13.18	13.00	0-2	0
	1	50	13.46	13.34	13.24		0
	1	99	13.37	13.13	13.07		0
	50	0	13.10	13.13	12.95	0-3	0
	50	25	13.18	13.09	12.95		0
	50	50	13.21	13.14	12.92		0
	100	0	13.16	13.03	12.93		0
256QAM	1	0	13.12	13.28	13.04	0-5	0
	1	50	13.29	13.22	13.09		0
	1	99	13.33	13.23	13.05		0
	50	0	13.09	13.07	12.89		0
	50	25	13.21	13.05	12.99		0
	50	50	13.22	13.13	12.93		0
	100	0	13.17	13.03	12.94		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-26
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.63	13.58	13.35	0	0
	1	50	**13.66**	13.63	13.43		0
	1	99	13.59	13.60	13.40		0
	50	0	13.71	13.58	13.60	0-1	0
	50	25	**13.72**	13.56	13.62		0
	50	50	13.68	13.65	13.70		0
	100	0	13.65	13.64	13.60		0
16QAM	1	0	13.59	13.48	13.48	0-1	0
	1	50	13.64	13.55	13.67		0
	1	99	13.36	13.44	13.56		0
	50	0	13.47	13.25	13.31	0-2	0
	50	25	13.50	13.25	13.34		0
	50	50	13.39	13.34	13.46		0
	100	0	13.43	13.31	13.33		0
64QAM	1	0	13.67	13.28	13.53	0-2	0
	1	50	13.75	13.47	13.67		0
	1	99	13.46	13.33	13.61		0
	50	0	13.45	13.25	13.30	0-3	0
	50	25	13.51	13.26	13.39		0
	50	50	13.36	13.32	13.45		0
	100	0	13.45	13.31	13.31		0
256QAM	1	0	13.61	13.38	13.42	0-5	0
	1	50	13.58	13.42	13.60		0
	1	99	13.54	13.51	13.64		0
	50	0	13.47	13.18	13.26		0
	50	25	13.47	13.27	13.35		0
	50	50	13.33	13.30	13.43		0
	100	0	13.44	13.31	13.32		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-27
LTE Band 25 (PCS) Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**13.13**	12.82	12.95	0	0
	1	50	13.12	12.89	13.00		0
	1	99	13.07	12.75	12.90		0
	50	0	**13.22**	13.11	13.02	0-1	0
	50	25	13.20	13.06	12.97		0
	50	50	13.19	13.06	13.00		0
	100	0	13.12	13.10	12.98		0
16QAM	1	0	13.08	13.10	13.25	0-1	0
	1	50	13.24	13.26	13.38		0
	1	99	13.05	13.05	13.22		0
	50	0	13.23	13.10	13.00	0-2	0
	50	25	13.25	13.07	13.02		0
	50	50	13.21	13.12	13.06		0
	100	0	13.16	13.09	12.96		0
64QAM	1	0	13.29	13.15	13.19	0-2	0
	1	50	13.38	13.31	13.30		0
	1	99	13.16	13.15	13.07		0
	50	0	13.19	13.05	12.98	0-3	0
	50	25	13.21	13.10	12.98		0
	50	50	13.15	13.09	13.07		0
	100	0	13.16	13.08	12.99		0
256QAM	1	0	13.35	13.09	13.20	0-5	0
	1	50	13.37	13.17	13.38		0
	1	99	13.29	13.25	13.22		0
	50	0	13.17	12.98	12.98		0
	50	25	13.23	13.14	12.99		0
	50	50	13.17	13.09	13.08		0
	100	0	13.18	13.07	12.97		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.9 LTE Band 30

Table 8-28
LTE Band 30 Measured P_{Limit} Antenna 1b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **27710** **(2310.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	13.06	0	0
	1	25	**13.09**		0
	1	49	13.07		0
	25	0	13.21	0-1	0
	25	12	**13.28**		0
	25	25	13.16		0
	50	0	13.08		0
16QAM	1	0	13.31	0-1	0
	1	25	13.33		0
	1	49	13.22		0
	25	0	13.01	0-2	0
	25	12	13.06		0
	25	25	12.91		0
	50	0	12.94		0
64QAM	1	0	13.25	0-2	0
	1	25	13.21		0
	1	49	13.17		0
	25	0	13.00	0-3	0
	25	12	13.03		0
	25	25	12.96		0
	50	0	12.94		0
256QAM	1	0	13.09	0-5	0
	1	25	13.15		0
	1	49	12.93		0
	25	0	12.97		0
	25	12	13.02		0
	25	25	12.89		0
	50	0	12.90		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-29
LTE Band 30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **27710** **(2310.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**13.50**	0	0
	1	25	13.42		0
	1	49	13.43		0
	25	0	**13.55**	0-1	0
	25	12	13.52		0
	25	25	13.48		0
	50	0	13.49		0
16QAM	1	0	13.59	0-1	0
	1	25	13.54		0
	1	49	13.54		0
	25	0	13.31	0-2	0
	25	12	13.38		0
	25	25	13.34		0
	50	0	13.30		0
64QAM	1	0	13.38	0-2	0
	1	25	13.47		0
	1	49	13.51		0
	25	0	13.34	0-3	0
	25	12	13.34		0
	25	25	13.33		0
	50	0	13.33		0
256QAM	1	0	13.47	0-5	0
	1	25	13.55		0
	1	49	13.45		0
	25	0	13.33		0
	25	12	13.34		0
	25	25	13.27		0
	50	0	13.31		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-30
LTE Band 30 Measured P_{Limit} Antenna 3a - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **27710** **(2310.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	10.95	0	0
	1	25	**10.97**		0
	1	49	10.96		0
	25	0	11.30	0-1	0
	25	12	**11.34**		0
	25	25	11.30		0
	50	0	10.96		0
16QAM	1	0	11.33	0-1	0
	1	25	11.41		0
	1	49	11.37		0
	25	0	11.01	0-2	0
	25	12	11.11		0
	25	25	11.08		0
	50	0	11.07		0
64QAM	1	0	10.98	0-2	0
	1	25	11.10		0
	1	49	11.07		0
	25	0	10.77	0-3	0
	25	12	10.90		0
	25	25	10.88		0
	50	0	10.85		0
256QAM	1	0	11.02	0-5	0
	1	25	10.98		0
	1	49	10.99		0
	25	0	10.83		0
	25	12	10.89		0
	25	25	10.93		0
	50	0	10.90		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-31
LTE Band 30 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **27710** **(2310.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	11.61	0	0
	1	25	11.62		0
	1	49	**11.70**		0
	25	0	11.66	0-1	0
	25	12	11.71		0
	25	25	**11.72**		0
	50	0	11.68		0
16QAM	1	0	11.73	0-1	0
	1	25	11.79		0
	1	49	11.72		0
	25	0	11.53	0-2	0
	25	12	11.56		0
	25	25	11.55		0
	50	0	11.52		0
64QAM	1	0	11.73	0-2	0
	1	25	11.77		0
	1	49	11.70		0
	25	0	11.54	0-3	0
	25	12	11.59		0
	25	25	11.53		0
	50	0	11.51		0
256QAM	1	0	11.58	0-5	0
	1	25	11.74		0
	1	49	11.67		0
	25	0	11.55		0
	25	12	11.60		0
	25	25	11.54		0
	50	0	11.51		0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.10 LTE Band 7

Table 8-32
LTE Band 7 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**12.62**	12.51	12.48	0	0
	1	50	12.59	12.53	12.50		0
	1	99	12.52	12.47	12.47		0
	50	0	**12.66**	12.59	12.59	0-1	0
	50	25	12.65	12.60	12.61		0
	50	50	12.55	12.53	12.58		0
	100	0	12.57	12.56	12.58		0
16QAM	1	0	12.53	12.33	12.41	0-1	0
	1	50	12.60	12.38	12.63		0
	1	99	12.48	12.34	12.48		0
	50	0	12.41	12.35	12.29	0-2	0
	50	25	12.42	12.30	12.27		0
	50	50	12.31	12.24	12.24		0
	100	0	12.32	12.32	12.24		0
64QAM	1	0	12.40	12.32	12.25	0-2	0
	1	50	12.55	12.46	12.28		0
	1	99	12.38	12.22	12.34		0
	50	0	12.35	12.24	12.18	0-3	0
	50	25	12.33	12.21	12.21		0
	50	50	12.25	12.20	12.29		0
	100	0	12.27	12.18	12.20		0
256QAM	1	0	12.41	12.33	12.23	0-5	0
	1	50	12.38	12.28	12.35		0
	1	99	12.36	12.41	12.38		0
	50	0	12.26	12.16	12.13		0
	50	25	12.34	12.18	12.19		0
	50	50	12.22	12.19	12.29		0
	100	0	12.24	12.18	12.20		0

Table 8-33
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1b

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	12.47	12.48

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-34
LTE Band 7 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.48	13.47	13.52	0	0
	1	50	13.53	**13.58**	13.57		0
	1	99	13.48	13.48	13.41		0
	50	0	13.56	13.59	13.60	0-1	0
	50	25	13.49	**13.64**	13.57		0
	50	50	13.47	13.52	13.49		0
	100	0	13.55	13.48	13.51		0
16QAM	1	0	13.35	13.62	13.66	0-1	0
	1	50	13.52	13.68	13.82		0
	1	99	13.47	13.68	13.70		0
	50	0	13.35	13.47	13.52	0-2	0
	50	25	13.34	13.52	13.53		0
	50	50	13.33	13.47	13.47		0
	100	0	13.28	13.40	13.51		0
64QAM	1	0	13.34	13.30	13.50	0-2	0
	1	50	13.47	13.60	13.72		0
	1	99	13.44	13.41	13.50		0
	50	0	13.30	13.34	13.50	0-3	0
	50	25	13.33	13.42	13.56		0
	50	50	13.27	13.35	13.47		0
	100	0	13.27	13.34	13.54		0
256QAM	1	0	13.36	13.46	13.62	0-5	0
	1	50	13.47	13.54	13.70		0
	1	99	13.53	13.59	13.69		0
	50	0	13.27	13.33	13.47		0
	50	25	13.35	13.44	13.54		0
	50	50	13.28	13.34	13.47		0
	100	0	13.26	13.40	13.53		0

Table 8-35
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	1	99	LTE B7	20	21298	2554.8	3298	2674.8	QPSK	1	0	13.30	13.48

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-36
LTE Band 7 Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	9.73	9.64	9.58	0	0
	1	50	9.66	9.83	9.54		0
	1	99	9.75	**9.95**	9.60		0
	50	0	9.68	9.66	9.62	0-1	0
	50	25	9.73	**9.79**	9.71		0
	50	50	9.71	9.43	9.73		0
	100	0	9.47	9.46	9.45		0
16QAM	1	0	9.59	9.70	9.70	0-1	0
	1	50	9.79	9.74	9.80		0
	1	99	9.84	9.62	9.78		0
	50	0	9.62	9.60	9.49	0-2	0
	50	25	9.71	9.60	9.63		0
	50	50	9.68	9.59	9.56		0
	100	0	9.62	9.57	9.58		0
64QAM	1	0	9.62	9.79	9.68	0-2	0
	1	50	9.96	9.75	9.73		0
	1	99	9.98	9.80	9.68		0
	50	0	9.63	9.58	9.52	0-3	0
	50	25	9.74	9.61	9.62		0
	50	50	9.69	9.56	9.58		0
	100	0	9.61	9.56	9.58		0
256QAM	1	0	9.59	9.80	9.69	0-5	0
	1	50	9.81	9.84	9.85		0
	1	99	9.77	9.85	9.85		0
	50	0	9.61	9.59	9.48		0
	50	25	9.76	9.60	9.57		0
	50	50	9.68	9.55	9.57		0
	100	0	9.61	9.56	9.55		0

Table 8-37
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3a

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510	2850	2630	QPSK	100	0	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	100	0	9.60	9.47

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-38
LTE Band 7 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.90	**11.98**	11.63	0	0
	1	50	11.85	11.95	11.60		0
	1	99	11.81	11.85	11.50		0
	50	0	11.97	**11.99**	11.94	0-1	0
	50	25	11.95	11.98	11.88		0
	50	50	11.89	11.88	11.77		0
	100	0	11.89	11.95	11.87		0
16QAM	1	0	11.56	11.76	11.87	0-1	0
	1	50	11.68	11.87	11.89		0
	1	99	11.58	11.68	11.77		0
	50	0	11.75	11.69	11.74	0-2	0
	50	25	11.79	11.72	11.76		0
	50	50	11.66	11.67	11.71		0
	100	0	11.70	11.70	11.68		0
64QAM	1	0	11.80	11.78	11.79	0-2	0
	1	50	11.94	11.88	11.89		0
	1	99	11.79	11.68	11.68		0
	50	0	11.73	11.69	11.67	0-3	0
	50	25	11.71	11.71	11.67		0
	50	50	11.62	11.66	11.68		0
	100	0	11.69	11.68	11.68		0
256QAM	1	0	11.79	11.77	11.85	0-5	0
	1	50	11.82	11.80	11.83		0
	1	99	11.79	11.68	11.75		0
	50	0	11.70	11.65	11.67		0
	50	25	11.71	11.70	11.71		0
	50	50	11.67	11.68	11.65		0
	100	0	11.71	11.66	11.65		0

Table 8-39
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	11.65	11.63

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.11 LTE Band 41

Table 8-40
LTE Band 41 PC3 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	14.46	**14.57**	14.17	14.23	14.33	0	0
	1	50	14.51	14.46	14.14	14.25	14.25		0
	1	99	14.55	14.45	14.19	14.35	14.30		0
	50	0	14.56	**14.61**	14.43	14.40	14.41	0-1	0
	50	25	14.52	14.50	14.40	14.38	14.40		0
	50	50	14.60	14.55	14.38	14.34	14.37		0
	100	0	14.51	14.53	14.44	14.39	14.45		0
16QAM	1	0	14.17	14.25	14.29	14.15	14.16	0-1	0
	1	50	14.31	14.40	14.21	14.27	14.17		0
	1	99	14.14	14.28	14.28	14.15	14.21		0
	50	0	14.35	14.40	14.22	14.24	14.07	0-2	0
	50	25	14.33	14.42	14.26	14.02	14.15		0
	50	50	14.26	14.30	14.20	14.26	14.10		0
	100	0	14.33	14.39	14.26	14.03	14.12		0
64QAM	1	0	14.20	14.37	14.10	13.95	14.04	0-2	0
	1	50	14.17	14.37	14.24	14.11	14.16		0
	1	99	14.20	14.35	14.23	14.13	14.14		0
	50	0	14.33	14.37	14.21	14.19	14.09	0-3	0
	50	25	14.35	14.41	14.24	14.04	14.13		0
	50	50	14.26	14.35	14.19	14.16	14.11		0
	100	0	14.31	14.38	14.21	14.18	14.16		0
256QAM	1	0	14.19	14.34	14.17	13.99	14.04	0-5	0
	1	50	14.21	14.36	14.15	14.05	14.07		0
	1	99	14.22	14.33	14.19	14.07	14.10		0
	50	0	14.29	14.35	14.16	14.05	14.06		0
	50	25	14.34	14.41	14.25	14.01	14.09		0
	50	50	14.22	14.42	14.17	14.14	14.10		0
	100	0	14.34	14.40	14.24	14.01	14.13		0

Table 8-41
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	14.44	14.19

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-42
LTE Band 41 PC2 Measured P_{Limit} Antenna 1b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.33	16.21	16.17	16.21	16.25	0	0
	1	50	16.34	16.40	16.20	16.23	16.36		0
	1	99	16.28	16.28	16.16	16.32	16.39		0
	50	0	16.26	16.43	16.34	16.19	16.26	0-1	0
	50	25	16.39	16.35	16.35	16.24	16.32		0
	50	50	16.38	16.38	16.28	16.18	16.28		0
	100	0	16.38	16.33	16.32	16.22	16.27		0

Table 8-43
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	16.37	16.16

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-44
LTE Band 41 PC3 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.38	15.40	15.45	15.20	15.17	0	0
	1	50	15.37	15.45	15.40	15.21	15.15		0
	1	99	15.36	15.39	**15.48**	15.23	15.23		0
	50	0	15.45	15.47	15.44	15.34	15.23	0-1	0
	50	25	15.39	15.50	15.49	15.35	15.22		0
	50	50	15.41	15.42	**15.52**	15.26	15.16		0
	100	0	15.46	15.45	15.47	15.30	15.24		0
16QAM	1	0	15.10	15.01	14.87	14.94	14.78	0-1	0
	1	50	15.26	14.96	15.03	15.01	14.77		0
	1	99	15.09	14.82	15.03	15.13	14.81		0
	50	0	15.18	15.07	15.04	14.93	14.85	0-2	0
	50	25	15.15	14.99	15.07	14.99	14.90		0
	50	50	15.03	14.98	15.02	14.93	14.85		0
	100	0	15.14	14.98	15.07	14.96	14.90		0
64QAM	1	0	15.00	14.86	14.88	14.78	14.70	0-2	0
	1	50	15.00	14.89	14.98	14.79	14.70		0
	1	99	15.00	14.86	14.96	15.02	14.84		0
	50	0	15.17	15.00	14.97	14.88	14.87	0-3	0
	50	25	15.14	14.94	15.05	14.97	14.91		0
	50	50	15.06	14.93	14.96	14.91	14.86		0
	100	0	15.15	14.90	15.01	14.92	14.89		0
256QAM	1	0	15.14	14.82	14.91	14.78	14.64	0-5	0
	1	50	15.14	14.86	14.91	14.83	14.71		0
	1	99	15.00	14.88	15.04	14.91	14.68		0
	50	0	15.15	15.00	14.96	14.90	14.84		0
	50	25	15.14	14.93	14.99	14.92	14.86		0
	50	50	15.07	14.94	14.95	14.87	14.83		0
	100	0	15.14	14.92	15.00	14.90	14.88		0

Table 8-45
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	15.41	15.47

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-46
LTE Band 41 PC2 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.79	16.78	16.76	16.59	16.64	0	0
	1	50	16.89	16.97	16.83	16.73	16.72		0
	1	99	16.81	16.81	16.51	16.72	16.73		0
	50	0	16.99	17.01	16.86	16.78	16.74	0-1	0
	50	25	17.00	16.94	16.94	16.85	16.80		0
	50	50	16.98	16.90	16.85	16.76	16.71		0
	100	0	16.95	16.86	16.96	16.81	16.76		0

Table 8-47
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	50	0	LTE B41 PC2	20	39987	2529.7	QPSK	50	50	17.09	17.01

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-48
LTE Band 41 PC3 Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.15	13.46	13.20	13.16	13.06	0	0
	1	50	13.45	13.48	13.11	13.12	13.02		0
	1	99	13.52	**13.53**	13.15	13.18	13.03		0
	50	0	13.41	**13.54**	13.28	13.12	13.16	0-1	0
	50	25	13.52	13.53	13.27	13.15	13.07		0
	50	50	13.53	13.46	13.26	13.21	13.12		0
	100	0	13.44	13.45	13.23	13.15	13.16		0
16QAM	1	0	13.20	13.46	13.06	13.08	13.10	0-1	0
	1	50	13.57	13.59	13.15	13.27	13.02		0
	1	99	13.61	13.27	13.04	13.09	12.85		0
	50	0	13.31	13.52	13.15	12.97	12.89	0-2	0
	50	25	13.41	13.52	13.12	13.00	12.97		0
	50	50	13.43	13.38	13.11	13.04	12.96		0
	100	0	13.42	13.47	13.12	12.96	12.95		0
64QAM	1	0	13.00	13.28	13.08	12.91	12.73	0-2	0
	1	50	13.25	13.51	13.28	12.87	12.85		0
	1	99	13.29	13.16	12.91	12.81	12.78		0
	50	0	13.17	13.44	13.12	12.90	12.80	0-3	0
	50	25	13.25	13.44	13.13	12.96	12.93		0
	50	50	13.33	13.30	13.07	12.97	12.83		0
	100	0	13.20	13.39	13.08	12.88	12.85		0
256QAM	1	0	13.02	13.38	13.09	13.01	12.82	0-5	0
	1	50	13.41	13.42	13.14	13.08	12.91		0
	1	99	13.39	13.31	13.02	13.01	12.85		0
	50	0	13.16	13.43	13.14	12.93	12.78		0
	50	25	13.27	13.41	13.13	12.96	12.87		0
	50	50	13.30	13.28	13.09	13.01	12.81		0
	100	0	13.22	13.41	13.13	12.92	12.87		0

Table 8-49
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3a

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	13.34	13.54

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-50
LTE Band 41 PC2 Measured P_{Limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.31	14.82	14.69	14.46	14.42	0	0
	1	50	14.70	14.85	14.56	14.42	14.39		0
	1	99	14.77	14.75	14.60	14.50	14.31		0
	50	0	14.69	14.96	14.71	14.50	14.50	0-1	0
	50	25	14.81	14.95	14.65	14.58	14.42		0
	50	50	14.90	14.82	14.63	14.55	14.47		0
	100	0	14.83	14.83	14.66	14.57	14.40		0

Table 8-51
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3a

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	50	0	LTE B41 PC2	20	39987	2529.7	QPSK	50	50	15.00	14.96

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-52
LTE Band 41 PC3 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.73	14.76	14.85	14.74	14.69	0	0
	1	50	14.83	**14.95**	14.92	14.82	14.70		0
	1	99	14.74	14.73	14.87	14.89	14.72		0
	50	0	14.93	**15.06**	14.85	14.95	14.91	0-1	0
	50	25	14.98	14.93	14.92	14.97	14.97		0
	50	50	14.88	14.57	14.93	14.86	14.96		0
	100	0	14.92	14.90	14.88	14.91	14.94		0
16QAM	1	0	14.54	14.41	14.64	14.50	14.48	0-1	0
	1	50	14.75	14.47	14.73	14.75	14.46		0
	1	99	14.51	14.45	14.63	14.60	14.56		0
	50	0	14.74	14.63	14.57	14.46	14.61	0-2	0
	50	25	14.63	14.65	14.57	14.51	14.61		0
	50	50	14.67	14.60	14.59	14.64	14.62		0
	100	0	14.59	14.63	14.54	14.51	14.59		0
64QAM	1	0	14.26	14.24	14.27	14.20	14.26	0-2	0
	1	50	14.38	14.38	14.37	14.48	14.29		0
	1	99	14.18	14.25	14.31	14.42	14.36		0
	50	0	14.42	14.41	14.36	14.37	14.33	0-3	0
	50	25	14.40	14.46	14.39	14.39	14.43		0
	50	50	14.38	14.40	14.36	14.42	14.39		0
	100	0	14.39	14.43	14.37	14.33	14.37		0
256QAM	1	0	14.39	14.27	14.37	14.18	14.25	0-5	0
	1	50	14.27	14.36	14.40	14.24	14.31		0
	1	99	14.33	14.33	14.47	14.30	14.35		0
	50	0	14.38	14.41	14.37	14.37	14.32		0
	50	25	14.42	14.41	14.40	14.38	14.40		0
	50	50	14.41	14.41	14.39	14.40	14.40		0
	100	0	14.39	14.38	14.40	14.35	14.36		0

Table 8-53
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	14.38	14.69

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-54
LTE Band 41 PC2 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.92	15.87	15.89	16.13	15.78	0	0
	1	50	15.96	15.95	15.95	16.09	15.75		0
	1	99	15.94	15.93	16.01	16.16	15.74		0
	50	0	16.10	16.07	15.99	16.10	15.89	0-1	0
	50	25	16.13	16.06	16.03	16.11	15.92		0
	50	50	16.09	16.03	16.05	16.14	15.91		0
	100	0	16.08	16.02	16.02	16.08	15.87		0

Table 8-55
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	15.80	15.78

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.2.12 LTE Band 48

Table 8-56
LTE Band 48 Measured P_{Limit} Antenna 1a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	11.74	11.72	11.81	11.89	0	0
	1	50	11.84	11.81	11.92	**11.93**		0
	1	99	11.78	11.73	11.84	11.84		0
	50	0	11.92	11.87	11.89	11.93	0-1	0
	50	25	11.97	11.95	12.02	**12.04**		0
	50	50	11.98	11.93	12.01	12.01		0
	100	0	11.88	11.90	11.91	11.92		0
16QAM	1	0	11.79	11.83	11.99	11.82	0-1	0
	1	50	12.06	12.00	12.07	11.87		0
	1	99	11.87	11.91	11.99	11.75		0
	50	0	11.85	12.03	11.94	11.87	0-2	0
	50	25	11.96	12.05	11.96	11.95		0
	50	50	11.98	12.03	12.01	11.95		0
	100	0	11.93	12.02	11.93	11.95		0
64QAM	1	0	11.53	11.62	11.86	11.69	0-2	0
	1	50	11.66	11.74	11.83	11.64		0
	1	99	11.64	11.70	11.74	11.65		0
	50	0	11.64	11.76	11.78	11.79	0-3	0
	50	25	11.75	11.89	11.88	11.79		0
	50	50	11.77	11.90	11.88	11.77		0
	100	0	11.77	11.86	11.86	11.76		0
256QAM	1	0	11.49	11.69	11.79	11.71	0-5	0
	1	50	11.55	11.76	11.83	11.70		0
	1	99	11.65	11.88	11.88	11.69		0
	50	0	11.59	11.79	11.83	11.79		0
	50	25	11.74	11.93	11.91	11.77		0
	50	50	11.76	11.96	11.93	11.78		0
	100	0	11.73	11.90	11.92	11.77		0

Table 8-57
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1a

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	12.81	11.98

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-58
LTE Band 48 Measured P_{Limit} Antenna 2a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	10.74	10.64	10.77	10.85	0	0
	1	50	10.85	10.79	10.87	**10.98**		0
	1	99	10.82	10.71	10.79	10.77		0
	50	0	10.83	10.87	10.87	10.87	0-1	0
	50	25	10.96	10.92	10.92	**10.98**		0
	50	50	10.86	10.91	10.97	10.95		0
	100	0	10.94	10.90	10.90	10.97		0
16QAM	1	0	10.86	10.90	10.92	10.80	0-1	0
	1	50	10.90	11.00	11.08	11.15		0
	1	99	11.00	10.78	10.91	10.88		0
	50	0	10.99	10.93	10.93	10.96	0-2	0
	50	25	11.04	11.01	10.98	11.02		0
	50	50	11.04	11.01	11.03	11.07		0
	100	0	10.98	10.95	10.95	10.97		0
64QAM	1	0	10.46	10.32	10.35	10.64	0-2	0
	1	50	10.68	10.50	10.60	10.73		0
	1	99	10.52	10.36	10.55	10.62		0
	50	0	10.69	10.69	10.65	10.70	0-3	0
	50	25	10.77	10.72	10.68	10.69		0
	50	50	10.75	10.74	10.75	10.76		0
	100	0	10.70	10.67	10.63	10.67		0
256QAM	1	0	10.59	10.34	10.67	10.53	0-5	0
	1	50	10.71	10.46	10.65	10.74		0
	1	99	10.76	10.57	10.73	10.80		0
	50	0	10.69	10.66	10.61	10.66		0
	50	25	10.76	10.72	10.69	10.72		0
	50	50	10.77	10.71	10.73	10.82		0
	100	0	10.70	10.70	10.66	10.65		0

Table 8-59
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2a

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	10.96	10.87

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-60
LTE Band 48 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	13.21	13.26	13.35	13.15	0	0
	1	50	13.33	13.44	**13.49**	13.16		0
	1	99	13.36	13.39	13.36	13.14		0
	50	0	13.27	13.43	13.51	13.41	0-1	0
	50	25	13.44	13.52	**13.57**	13.47		0
	50	50	13.43	13.55	13.50	13.38		0
	100	0	13.40	13.46	13.48	13.42		0
16QAM	1	0	13.25	13.42	13.23	13.26	0-1	0
	1	50	13.56	13.62	13.43	13.36		0
	1	99	13.36	13.29	13.14	13.21		0
	50	0	13.25	13.36	13.29	13.21	0-2	0
	50	25	13.37	13.50	13.36	13.26		0
	50	50	13.38	13.45	13.22	13.18		0
	100	0	13.35	13.45	13.29	13.24		0
64QAM	1	0	13.28	13.33	13.31	13.17	0-2	0
	1	50	13.39	13.53	13.40	13.40		0
	1	99	13.35	13.32	13.24	13.15		0
	50	0	13.21	13.30	13.32	13.19	0-3	0
	50	25	13.40	13.43	13.34	13.24		0
	50	50	13.41	13.39	13.21	13.16		0
	100	0	13.33	13.45	13.32	13.20		0
256QAM	1	0	13.26	13.25	13.15	13.24	0-5	0
	1	50	13.27	13.50	13.47	13.23		0
	1	99	13.36	13.46	13.11	13.17		0
	50	0	13.24	13.34	13.33	13.20		0
	50	25	13.40	13.51	13.34	13.25		0
	50	50	13.37	13.48	13.22	13.14		0
	100	0	13.35	13.46	13.32	13.20		0

Table 8-61
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	1	0	LTE B48	20	56442	3670.2	QPSK	1	99	13.40	13.15

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-62
LTE Band 48 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	13.14	12.89	13.12	13.12	0	0
	1	50	13.27	12.91	**13.30**	13.18		0
	1	99	13.20	12.90	13.17	13.07		0
	50	0	13.32	13.22	13.33	13.28	0-1	0
	50	25	13.34	13.27	**13.39**	13.28		0
	50	50	13.32	13.28	13.37	13.31		0
	100	0	13.28	13.23	13.29	13.26		0
16QAM	1	0	13.08	12.88	13.09	12.75	0-1	0
	1	50	13.13	13.28	13.34	12.89		0
	1	99	13.03	13.14	13.07	12.77		0
	50	0	13.05	12.98	13.26	12.82	0-2	0
	50	25	13.06	13.17	13.27	12.84		0
	50	50	13.02	13.16	13.16	12.71		0
	100	0	13.03	13.12	13.26	12.80		0
64QAM	1	0	12.72	12.88	13.18	12.69	0-2	0
	1	50	12.87	13.02	13.16	12.74		0
	1	99	12.84	13.06	12.86	12.54		0
	50	0	13.07	13.02	13.29	12.84	0-3	0
	50	25	13.09	13.18	13.33	12.88		0
	50	50	13.04	13.21	13.18	12.77		0
	100	0	13.04	13.17	13.24	12.84		0
256QAM	1	0	12.85	12.83	13.26	12.78	0-5	0
	1	50	13.03	13.16	13.16	12.82		0
	1	99	13.01	13.18	13.18	12.80		0
	50	0	13.01	12.97	13.22	12.79		0
	50	25	13.04	13.14	13.23	12.84		0
	50	50	13.01	13.14	13.13	12.70		0
	100	0	13.00	13.11	13.18	12.77		0

Table 8-63
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55773	3603.3	QPSK	1	99	LTE B48	20	55971	3623.1	QPSK	1	0	13.24	12.90

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_7C, LTE CA_41C and LTE CA_48C with a maximum of two component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.

2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



Figure 8-2
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.3 NR Plimit Conducted Powers

Notes: Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.3.1 NR Band n71

Table 8-64
NR Band n71 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.93	0	0.0
	1	53	**17.01**		0.0
	1	104	16.93		0.0
	50	0	16.94	0-1	0.0
	50	28	**17.00**	0	0.0
	50	56	16.89	0-1	0.0
	100	0	16.90		0.0
DFT-s-OFDM 16QAM	1	1	16.64	0-1	0.0
CP-OFDM QPSK	1	1	16.85	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-65
NR Band n71 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**20.06**	0	0.0
	1	53	19.94		0.0
	1	104	19.95		0.0
	50	0	**19.97**	0-1	0.0
	50	28	19.96	0	0.0
	50	56	19.91	0-1	0.0
	100	0	19.92		0.0
DFT-s-OFDM 16QAM	1	1	20.24	0-1	0.0
CP-OFDM QPSK	1	1	20.47	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.2 NR Band n12

Table 8-66
NR Band n12 Measured P_{Limit} Antenna 3b - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.89	0	0.0
	1	40	16.93		0.0
	1	77	**16.98**		0.0
	36	0	**16.98**	0-1	0.0
	36	22	16.93	0	0.0
	36	43	16.97	0-1	0.0
	75	0	16.97		0.0
DFT-s-OFDM 16QAM	1	1	16.93	0-1	0.0
CP-OFDM QPSK	1	1	16.97	0-1.5	0.0

Table 8-67
NR Band n12 Measured P_{Limit} Antenna 4 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.09**	0	0.0
	1	40	18.98		0.0
	1	77	18.91		0.0
	36	0	**19.05**	0-1	0.0
	36	22	18.93	0	0.0
	36	43	18.92	0-1	0.0
	75	0	18.99		0.0
DFT-s-OFDM 16QAM	1	1	19.03	0-1	0.0
CP-OFDM QPSK	1	1	19.05	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.3 NR Band n14

Table 8-68
NR Band n14 Measured P_{Limit} Antenna 3b - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.04	0	0.0
	1	26	16.00		0.0
	1	50	**16.08**		0.0
	25	0	**16.09**	0-1	0.0
	25	14	15.99	0	0.0
	25	27	16.01	0-1	0.0
	50	0	15.98		0.0
DFT-s-OFDM 16QAM	1	1	16.10	0-1	0.0
CP-OFDM QPSK	1	1	15.90	0-1.5	0.0

Table 8-69
NR Band n14 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.86**	0	0.0
	1	26	18.85		0.0
	1	50	18.84		0.0
	25	0	18.85	0-1	0.0
	25	14	**18.94**	0	0.0
	25	27	18.87	0-1	0.0
	50	0	18.85		0.0
DFT-s-OFDM 16QAM	1	1	19.02	0-1	0.0
CP-OFDM QPSK	1	1	18.97	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.4 NR Band n26

Table 8-70
NR Band n26 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**15.75**	0	0.0
	1	53	15.68		0.0
	1	104	15.69		0.0
	50	0	**15.74**	0-1	0.0
	50	28	15.68	0	0.0
	50	56	15.61	0-1	0.0
	100	0	15.67		0.0
DFT-s-OFDM 16QAM	1	1	15.73	0-1	0.0
CP-OFDM QPSK	1	1	15.64	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-71
NR Band n26 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.35**	0	0.0
	1	53	18.28		0.0
	1	104	18.24		0.0
	50	0	**18.39**	0-1	0.0
	50	28	18.35	0	0.0
	50	56	18.27	0-1	0.0
	100	0	18.32		0.0
DFT-s-OFDM 16QAM	1	1	18.39	0-1	0.0
CP-OFDM QPSK	1	1	18.17	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.5 NR Band n5

Table 8-72
NR Band n5 Measured P_{Limit} Antenna 3b - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.70	0	0.0
	1	53	**15.74**		0.0
	1	104	15.58		0.0
	50	0	**15.75**	0-1	0.0
	50	28	15.68	0	0.0
	50	56	15.64	0-1	0.0
	100	0	15.51		0.0
DFT-s-OFDM 16QAM	1	1	15.90	0-1	0.0
CP-OFDM QPSK	1	1	15.85	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-73
NR Band n5 Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.37	0	0.0
	1	53	**18.41**		0.0
	1	104	18.36		0.0
	50	0	**18.34**	0-1	0.0
	50	28	18.30	0	0.0
	50	56	18.25	0-1	0.0
	100	0	18.31		0.0
DFT-s-OFDM 16QAM	1	1	18.38	0-1	0.0
CP-OFDM QPSK	1	1	18.29	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.6 NR Band n70

Table 8-74
NR Band n70 Measured P_{Limit} Antenna 1b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.41**	0	0.0
	1	40	11.38		0.0
	1	77	11.33		0.0
	36	0	11.37	0-1	0.0
	36	22	11.35	0	0.0
	36	43	**11.40**	0-1	0.0
	75	0	11.32		0.0
DFT-s-OFDM 16QAM	1	1	11.48	0-1	0.0
CP-OFDM QPSK	1	1	11.58	0-1.5	0.0

Table 8-75
NR Band n70 Measured P_{Limit} Antenna 2b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.15	0	0.0
	1	40	**13.16**		0.0
	1	77	13.11		0.0
	36	0	13.18	0-1	0.0
	36	22	13.18	0	0.0
	36	43	**13.19**	0-1	0.0
	75	0	12.90		0.0
DFT-s-OFDM 16QAM	1	1	13.22	0-1	0.0
CP-OFDM QPSK	1	1	13.10	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-76
NR Band n70 Measured P_{Limit} Antenna 3a - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**13.26**	0	0.0
	1	40	13.25		0.0
	1	77	13.24		0.0
	36	0	13.38	0-1	0.0
	36	22	13.38	0	0.0
	36	43	**13.45**	0-1	0.0
	75	0	13.25		0.0
DFT-s-OFDM 16QAM	1	1	13.56	0-1	0.0
CP-OFDM QPSK	1	1	13.55	0-1.5	0.0

Table 8-77
NR Band n70 Measured P_{Limit} Antenna 4 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**14.79**	0	0.0
	1	40	14.75		0.0
	1	77	14.66		0.0
	36	0	**14.74**	0-1	0.0
	36	22	14.70	0	0.0
	36	43	14.65	0-1	0.0
	75	0	14.68		0.0
DFT-s-OFDM 16QAM	1	1	14.38	0-1	0.0
CP-OFDM QPSK	1	1	14.87	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.7 NR Band n66

Table 8-78
NR Band n66 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.85**	0	0.0
	1	108	11.64		0.0
	1	214	11.68		0.0
	108	0	**11.97**	0-1	0.0
	108	54	11.85	0	0.0
	108	108	11.82	0-1	0.0
	216	0	11.84		0.0
DFT-s-OFDM 16QAM	1	1	11.62	0-1	0.0
CP-OFDM QPSK	1	1	11.47	0-1.5	0.0

Table 8-79
NR Band n66 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**13.19**	0	0.0
	1	108	12.96		0.0
	1	214	12.71		0.0
	108	0	**13.11**	0-1	0.0
	108	54	13.00	0	0.0
	108	108	12.97	0-1	0.0
	216	0	13.03		0.0
DFT-s-OFDM 16QAM	1	1	13.12	0-1	0.0
CP-OFDM QPSK	1	1	13.22	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-80
NR Band n66 Measured P_{Limit} Antenna 3a - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.60	0	0.0
	1	108	12.76		0.0
	1	214	**12.90**		0.0
	108	0	12.79	0-1	0.0
	108	54	**12.86**	0	0.0
	108	108	12.75	0-1	0.0
	216	0	12.84		0.0
DFT-s-OFDM 16QAM	1	1	12.63	0-1	0.0
CP-OFDM QPSK	1	1	12.81	0-1.5	0.0

Table 8-81
NR Band n66 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**14.49**	0	0.0
	1	108	14.45		0.0
	1	214	14.42		0.0
	108	0	**14.57**	0-1	0.0
	108	54	14.48	0	0.0
	108	108	14.50	0-1	0.0
	216	0	14.23		0.0
DFT-s-OFDM 16QAM	1	1	14.64	0-1	0.0
CP-OFDM QPSK	1	1	14.56	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.8 NR Band n25

Table 8-82
NR Band n25 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.66**	0	0.0
	1	108	11.63		0.0
	1	214	11.61		0.0
	108	0	11.68	0-1	0.0
	108	54	11.60	0	0.0
	108	108	**11.73**	0-1	0.0
	216	0	11.61		0.0
DFT-s-OFDM 16QAM	1	1	11.55	0-1	0.0
CP-OFDM QPSK	1	1	11.50	0-1.5	0.0

Table 8-83
NR Band n25 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.32	0	0.0
	1	108	**12.35**		0.0
	1	214	12.23		0.0
	108	0	**12.33**	0-1	0.0
	108	54	12.30	0	0.0
	108	108	12.27	0-1	0.0
	216	0	12.29		0.0
DFT-s-OFDM 16QAM	1	1	12.44	0-1	0.0
CP-OFDM QPSK	1	1	12.15	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-84
NR Band n25 Measured P_{Limit} Antenna 3a - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.67	0	0.0
	1	108	13.52		0.0
	1	214	**13.74**		0.0
	108	0	13.56	0-1	0.0
	108	54	13.57	0	0.0
	108	108	**13.67**	0-1	0.0
	216	0	13.64		0.0
DFT-s-OFDM 16QAM	1	1	13.67	0-1	0.0
CP-OFDM QPSK	1	1	13.81	0-1.5	0.0

Table 8-85
NR Band n25 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**12.94**	0	0.0
	1	108	12.68		0.0
	1	214	12.92		0.0
	108	0	12.83	0-1	0.0
	108	54	12.79	0	0.0
	108	108	**12.88**	0-1	0.0
	216	0	12.86		0.0
DFT-s-OFDM 16QAM	1	1	12.51	0-1	0.0
CP-OFDM QPSK	1	1	12.97	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.9 NR Band n30

Table 8-86
NR Band n30 Measured P_{Limit} Antenna 1b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.40	0	0.0
	1	26	**12.59**		0.0
	1	50	12.58		0.0
	25	0	12.43	0-1	0.0
	25	14	12.44	0	0.0
	25	27	**12.54**	0-1	0.0
	50	0	12.44		0.0
DFT-s-OFDM 16QAM	1	1	12.41	0-1	0.0
CP-OFDM QPSK	1	1	12.30	0-1.5	0.0

Table 8-87
NR Band n30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.51	0	0.0
	1	26	**13.54**		0.0
	1	50	13.49		0.0
	25	0	**13.51**	0-1	0.0
	25	14	13.46	0	0.0
	25	27	13.49	0-1	0.0
	50	0	13.49		0.0
DFT-s-OFDM 16QAM	1	1	13.60	0-1	0.0
CP-OFDM QPSK	1	1	13.25	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-88
NR Band n30 Measured P_{Limit} Antenna 3a - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.21	0	0.0
	1	26	11.28		0.0
	1	50	**11.30**		0.0
	25	0	**11.23**	0-1	0.0
	25	14	11.20	0	0.0
	25	27	11.18	0-1	0.0
	50	0	11.22		0.0
DFT-s-OFDM 16QAM	1	1	11.25	0-1	0.0
CP-OFDM QPSK	1	1	11.17	0-1.5	0.0

Table 8-89
NR Band n30 Measured P_{Limit} Antenna 4 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.60	0	0.0
	1	26	11.56		0.0
	1	50	**11.64**		0.0
	25	0	11.54	0-1	0.0
	25	14	11.56	0	0.0
	25	27	**11.58**	0-1	0.0
	50	0	11.57		0.0
DFT-s-OFDM 16QAM	1	1	11.90	0-1	0.0
CP-OFDM QPSK	1	1	11.52	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.10 NR Band n7

Table 8-90
NR Band n7 Measured P_{Limit} Antenna 1b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**12.38**	0	0.0
	1	108	12.25		0.0
	1	214	12.32		0.0
	108	0	**12.31**	0-1	0.0
	108	54	12.20	0	0.0
	108	108	12.23	0-1	0.0
	216	0	12.23		0.0
DFT-s-OFDM 16QAM	1	1	12.21	0-1	0.0
CP-OFDM QPSK	1	1	12.34	0-1.5	0.0

Table 8-91
NR Band n7 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**13.63**	0	0.0
	1	108	13.49		0.0
	1	214	13.51		0.0
	108	0	**13.55**	0-1	0.0
	108	54	13.46	0	0.0
	108	108	13.52	0-1	0.0
	216	0	13.52		0.0
DFT-s-OFDM 16QAM	1	1	13.78	0-1	0.0
CP-OFDM QPSK	1	1	13.64	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-92
NR Band n7 Measured P_{Limit} Antenna 3a - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.82	0	0.0
	1	108	9.79		0.0
	1	214	**9.86**		0.0
	108	0	**9.88**	0-1	0.0
	108	54	9.76	0	0.0
	108	108	9.78	0-1	0.0
	216	0	9.77		0.0
DFT-s-OFDM 16QAM	1	1	9.89	0-1	0.0
CP-OFDM QPSK	1	1	9.82	0-1.5	0.0

Table 8-93
NR Band n7 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.74**	0	0.0
	1	108	11.63		0.0
	1	214	11.61		0.0
	108	0	**11.68**	0-1	0.0
	108	54	11.58	0	0.0
	108	108	11.62	0-1	0.0
	216	0	11.61		0.0
DFT-s-OFDM 16QAM	1	1	11.86	0-1	0.0
CP-OFDM QPSK	1	1	11.52	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.11 NR Band n41 PC2

Table 8-94
NR Band n41 PC2 Measured P_{Limit} Antenna 1b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.98	0	0.0
	1	137	**13.14**		0.0
	1	271	12.89		0.0
	135	0	13.06	0-1	0.0
	135	69	**13.11**	0	0.0
	135	138	13.01	0-1	0.0
	270	0	13.10		0.0
DFT-s-OFDM 16QAM	1	1	12.19	0-1	0.0
CP-OFDM QPSK	1	1	12.91	0-1.5	0.0

Table 8-95
NR Band n41 PC2 Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.79	0	0.0
	1	137	12.67		0.0
	1	271	**12.81**		0.0
	135	0	12.74	0-1	0.0
	135	69	**12.76**	0	0.0
	135	138	12.71	0-1	0.0
	270	0	12.75		0.0
DFT-s-OFDM 16QAM	1	1	12.72	0-1	0.0
CP-OFDM QPSK	1	1	12.85	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-96
NR Band n41 PC2 Measured P_{Limit} Antenna 3a - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**9.99**	0	0.0
	1	137	9.98		0.0
	1	271	9.97		0.0
	135	0	**10.17**	0-1	0.0
	135	69	10.05	0	0.0
	135	138	9.98	0-1	0.0
	270	0	9.94		0.0
DFT-s-OFDM 16QAM	1	1	10.17	0-1	0.0
CP-OFDM QPSK	1	1	10.11	0-1.5	0.0

Table 8-97
NR Band n41 PC2 Measured P_{Limit} Antenna 4 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.04	0	0.0
	1	137	**12.13**		0.0
	1	271	12.07		0.0
	135	0	12.12	0-1	0.0
	135	69	12.10	0	0.0
	135	138	**12.17**	0-1	0.0
	270	0	12.12		0.0
DFT-s-OFDM 16QAM	1	1	12.12	0-1	0.0
CP-OFDM QPSK	1	1	11.90	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.12 NR Band n48 PC2

Table 8-98
NR Band n48 PC2 Measured P_{Limit} Antenna 1a - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.98	9.94	9.47	0	0.0
	1	53	9.94	9.86	9.45		0.0
	1	104	**10.06**	9.73	9.77		0.0
	50	0	9.94	9.95	9.45	0-1	0.0
	50	28	9.91	9.82	9.51	0	0.0
	50	56	**9.96**	9.72	9.58	0-1	0.0
	100	0	9.79	9.78	9.53		0.0
DFT-s-OFDM 16QAM	1	1	9.98	10.06	9.82	0-1	0.0
CP-OFDM QPSK	1	1	9.95	9.96	9.45	0-1.5	0.0

Table 8-99
NR Band n48 PC2 Measured P_{Limit} Antenna 2a - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.10	**9.46**	8.94	0	0.0
	1	53	9.35	9.13	9.01		0.0
	1	104	9.16	9.17	9.44		0.0
	50	0	9.24	**9.25**	8.94	0-1	0.0
	50	28	9.01	9.01	8.83	0	0.0
	50	56	9.00	9.03	9.15	0-1	0.0
	100	0	9.06	9.08	9.02		0.0
DFT-s-OFDM 16QAM	1	1	9.05	8.98	8.91	0-1	0.0
CP-OFDM QPSK	1	1	9.07	9.12	8.93	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-100
NR Band n48 PC2 Measured P_{Limit} Antenna 3b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	11.95	11.85	11.69	0	0.0
	1	53	11.98	11.82	11.65		0.0
	1	104	**12.06**	11.70	11.52		0.0
	50	0	**11.96**	11.83	11.84	0-1	0.0
	50	28	11.92	11.81	11.64	0	0.0
	50	56	11.95	11.74	11.56	0-1	0.0
	100	0	11.95	11.79	11.58		0.0
DFT-s-OFDM 16QAM	1	1	11.82	11.86	11.88	0-1	0.0
CP-OFDM QPSK	1	1	12.00	11.85	11.68	0-1.5	0.0

Table 8-101
NR Band n48 PC2 Measured P_{Limit} Antenna 4 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	11.24	11.15	10.91	0	0.0
	1	53	11.25	11.10	10.80		0.0
	1	104	**11.40**	11.03	10.89		0.0
	50	0	**11.25**	10.85	10.78	0-1	0.0
	50	28	11.19	10.84	10.68	0	0.0
	50	56	11.17	10.84	10.60	0-1	0.0
	100	0	11.22	10.96	10.70		0.0
DFT-s-OFDM 16QAM	1	1	11.15	10.95	10.90	0-1	0.0
CP-OFDM QPSK	1	1	11.20	11.35	10.93	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.13 NR Band n77 DoD PC2

Table 8-102
NR Band n77 DoD PC2 Measured P_{Limit} Antenna 1a - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.64	0	0.0
	1	137	9.69		0.0
	1	271	**9.90**		0.0
	135	0	**9.78**	0-1	0.0
	135	69	9.74	0	0.0
	135	138	9.68	0-1	0.0
	270	0	9.75		0.0
DFT-s-OFDM 16QAM	1	1	9.66	0-1	0.0
CP-OFDM QPSK	1	1	9.74	0-1.5	0.0

Table 8-103
NR Band n77 DoD PC2 Measured P_{Limit} Antenna 2a - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	7.24	0	0.0
	1	137	7.28		0.0
	1	271	**7.41**		0.0
	135	0	**7.45**	0-1	0.0
	135	69	7.38	0	0.0
	135	138	7.39	0-1	0.0
	270	0	7.39		0.0
DFT-s-OFDM 16QAM	1	1	7.23	0-1	0.0
CP-OFDM QPSK	1	1	7.48	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-104
NR Band n77 DoD PC2 Measured P_{Limit} Antenna 3b - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.20	0	0.0
	1	137	11.26		0.0
	1	271	**11.31**		0.0
	135	0	**11.34**	0-1	0.0
	135	69	11.26	0	0.0
	135	138	11.33	0-1	0.0
	270	0	11.30		0.0
DFT-s-OFDM 16QAM	1	1	11.12	0-1	0.0
CP-OFDM QPSK	1	1	11.05	0-1.5	0.0

Table 8-105
NR Band n77 DoD PC2 Measured P_{Limit} Antenna 4 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.31	0	0.0
	1	137	10.36		0.0
	1	271	**10.44**		0.0
	135	0	10.38	0-1	0.0
	135	69	10.33	0	0.0
	135	138	**10.51**	0-1	0.0
	270	0	10.34		0.0
DFT-s-OFDM 16QAM	1	1	10.34	0-1	0.0
CP-OFDM QPSK	1	1	10.14	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.3.14 NR Band n77 C PC2

Table 8-106
NR Band n77 C PC2 Measured P_{Limit} Antenna 1a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.96	**9.97**	0	0.0
	1	137	9.84	9.96		0.0
	1	271	9.74	9.96		0.0
	135	0	9.70	**10.05**	0-1	0.0
	135	69	9.75	9.93	0	0.0
	135	138	9.78	9.77	0-1	0.0
	270	0	9.77	9.94		0.0
DFT-s-OFDM 16QAM	1	1	9.83	10.17	0-1	0.0
CP-OFDM QPSK	1	1	9.84	10.09	0-1.5	0.0

Table 8-107
NR Band n77 C PC2 Measured P_{Limit} Antenna 2a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	7.67	**7.93**	0	0.0
	1	137	7.77	7.84		0.0
	1	271	7.88	7.76		0.0
	135	0	7.98	**7.99**	0-1	0.0
	135	69	7.96	7.83	0	0.0
	135	138	7.97	7.69	0-1	0.0
	270	0	7.92	7.85		0.0
DFT-s-OFDM 16QAM	1	1	7.64	7.69	0-1	0.0
CP-OFDM QPSK	1	1	7.72	7.81	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-108
NR Band n77 C PC2 Measured P_{Limit} Antenna 3b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	11.83	**12.30**	0	0.0
	1	137	12.09	11.98		0.0
	1	271	11.87	11.93		0.0
	135	0	12.14	**12.15**	0-1	0.0
	135	69	11.88	11.97	0	0.0
	135	138	11.86	11.90	0-1	0.0
	270	0	11.89	11.96		0.0
DFT-s-OFDM 16QAM	1	1	11.84	12.07	0-1	0.0
CP-OFDM QPSK	1	1	11.70	12.37	0-1.5	0.0

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-109
NR Band n77 C PC2 Measured P_{Limit} Antenna 4 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.49	**9.63**	0	0.0
	1	137	9.41	9.57		0.0
	1	271	9.52	9.60		0.0
	135	0	9.50	**9.65**	0-1	0.0
	135	69	9.43	9.63	0	0.0
	135	138	9.40	9.51	0-1	0.0
	270	0	9.49	9.55		0.0
DFT-s-OFDM 16QAM	1	1	9.46	9.69	0-1	0.0
CP-OFDM QPSK	1	1	9.61	9.63	0-1.5	0.0

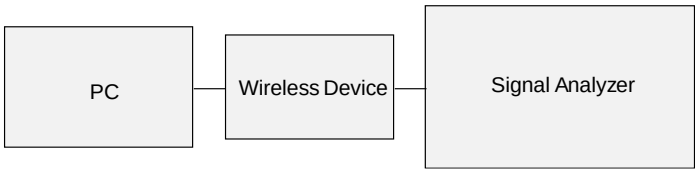


Figure 8-3
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-110
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.98
2437	6		11.09
2462	11		11.13
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.20
2437	6		11.21
2462	11		11.18
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.17
2437	6		11.21
2462	11		11.17
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.15
2437	6		11.24
2462	11		11.19

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-111
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.00
2437	6		11.23
2462	11		11.13
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.10
2437	6		11.02
2462	11		11.14
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.12
2437	6		11.03
2462	11		11.02
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.06
2437	6		11.19
2462	11		11.06

Table 8-112
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.73
2437	6		11.98
2462	11		11.89
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.31
2437	6		11.77
2462	11		11.53
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.31
2437	6		11.79
2462	11		11.53
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.16
2437	6		11.38
2462	11		11.22

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-113
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.76
2437	6		11.78
2462	11		11.87
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.58
2437	6		11.66
2462	11		11.74
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.62
2437	6		11.65
2462	11		11.75
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.49
2437	6		11.62
2462	11		11.69

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.5 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-114
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	9.22
UNII-2A	5290	58	8.82
UNII-2C	5530	106	8.44
	5610	122	8.86
	5690	138	8.23
UNII-3	5775	155	8.16
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	8.89
UNII-2A	5290	58	8.70
UNII-2C	5530	106	8.16
	5610	122	8.17
	5690	138	8.08
UNII-3	5775	155	8.09

Table 8-115
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	9.23
UNII-2A	5290	58	8.86
UNII-2C	5530	106	8.62
	5610	122	8.54
	5690	138	8.17
UNII-3	5775	155	8.52
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	8.71
UNII-2A	5290	58	8.70
UNII-2C	5530	106	8.05
	5610	122	8.14
	5690	138	8.15
UNII-3	5775	155	8.25

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-116
5 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.12
UNII-2A	5290	58	9.31
UNII-2C	5530	106	8.63
	5610	122	8.91
	5690	138	8.61
UNII-3	5775	155	8.69
5GHz WIFI (80MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.92
UNII-2A	5290	58	9.06
UNII-2C	5530	106	8.65
	5610	122	8.58
	5690	138	8.54
UNII-3	5775	155	8.57

Table 8-117
5 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.40
UNII-2A	5290	58	9.69
UNII-2C	5530	106	9.39
	5610	122	9.40
	5690	138	9.30
UNII-3	5775	155	8.70
5GHz WIFI (80MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.05
UNII-2A	5290	58	9.14
UNII-2C	5530	106	8.51
	5610	122	8.64
	5690	138	8.54
UNII-3	5775	155	8.65

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-118
5 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	14.69
UNII-2A	5290	58	14.72
UNII-2C	5530	106	12.88
	5610	122	13.30
	5690	138	12.72
UNII-3	5775	155	13.13
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	13.82
UNII-2A	5290	58	13.81
UNII-2C	5530	106	12.98
	5610	122	13.01
	5690	138	12.99
UNII-3	5775	155	13.43

Table 8-119
5 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	15.22
UNII-2A	5290	58	14.99
UNII-2C	5530	106	13.19
	5610	122	13.34
	5690	138	13.08
UNII-3	5775	155	13.40
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	13.71
UNII-2A	5290	58	13.65
UNII-2C	5530	106	13.11
	5610	122	12.97
	5690	138	13.07
UNII-3	5775	155	13.55

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.6 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-120
6 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-5	6025	15	9.00
	6345	79	9.42
UNII-6	6505	111	8.82
UNII-7	6665	143	8.60
UNII-8	6985	207	11.52

Table 8-121
6 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-5	6025	15	8.55
	6345	79	9.79
UNII-6	6505	111	8.86
UNII-7	6665	143	8.40
UNII-8	6985	207	11.65

Table 8-122
6 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.26
	6345	79	7.83
UNII-6	6505	111	8.21
UNII-7	6665	143	7.38
UNII-8	6985	207	7.67

Table 8-123
6 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.37
	6345	79	7.99
UNII-6	6505	111	8.18
UNII-7	6665	143	7.47
UNII-8	6985	207	7.28

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-124
6 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	13.06
	6345	79	11.92
UNII-6	6505	111	12.43
UNII-7	6665	143	11.42
UNII-8	6985	207	11.23

Table 8-125
6 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	13.13
	6345	79	12.25
UNII-6	6505	111	12.73
UNII-7	6665	143	11.73
UNII-8	6985	207	11.70

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.7 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-126
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.53
2437	6		4.58
2462	11		4.68
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.08
2437	6		5.17
2462	11		5.18
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.10
2437	6		5.16
2462	11		5.19
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.27
2437	6		5.25
2462	11		5.14

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-127
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.88
2437	6		4.94
2462	11		4.82
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.03
2437	6		5.01
2462	11		4.94
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.13
2437	6		5.04
2462	11		4.98
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.27
2437	6		5.25
2462	11		5.14

Table 8-128
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.70
2437	6		4.67
2462	11		4.81
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.32
2437	6		5.87
2462	11		5.58
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.32
2437	6		5.86
2462	11		5.59
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.53
2437	6		5.55
2462	11		5.37

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-129
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.96
2437	6		4.87
2462	11		4.80
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.61
2437	6		5.46
2462	11		5.68
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.69
2437	6		5.45
2462	11		5.67
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.53
2437	6		5.55
2462	11		5.37

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.8 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-130
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	2.80
UNII-2A	5290	58	2.91
UNII-2C	5530	106	2.16
	5610	122	2.27
	5690	138	1.86
UNII-3	5775	155	2.23
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	2.73
UNII-2A	5290	58	2.81
UNII-2C	5530	106	2.27
	5610	122	2.31
	5690	138	2.15
UNII-3	5775	155	2.45

Table 8-131
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	2.74
UNII-2A	5290	58	2.87
UNII-2C	5530	106	2.63
	5610	122	2.69
	5690	138	2.00
UNII-3	5775	155	2.45
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-1	5210	42	2.87
UNII-2A	5290	58	2.85
UNII-2C	5530	106	2.58
	5610	122	2.34
	5690	138	2.04
UNII-3	5775	155	2.46

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-132
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.88
UNII-2A	5290	58	3.12
UNII-2C	5530	106	2.82
	5610	122	2.75
	5690	138	2.37
UNII-3	5775	155	2.48
5GHz WIFI (80MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.03
UNII-2A	5290	58	3.01
UNII-2C	5530	106	2.54
	5610	122	2.55
	5690	138	2.59
UNII-3	5775	155	2.53

Table 8-133
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.08
UNII-2A	5290	58	3.15
UNII-2C	5530	106	2.90
	5610	122	2.92
	5690	138	2.42
UNII-3	5775	155	2.65
5GHz WIFI (80MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.12
UNII-2A	5290	58	3.05
UNII-2C	5530	106	2.98
	5610	122	2.68
	5690	138	2.60
UNII-3	5775	155	2.87

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-134
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.24
UNII-2A	5290	58	8.06
UNII-2C	5530	106	7.05
	5610	122	7.23
	5690	138	6.65
UNII-3	5775	155	6.40
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.34
UNII-2A	5290	58	8.23
UNII-2C	5530	106	6.95
	5610	122	6.92
	5690	138	7.13
UNII-3	5775	155	6.58

Table 8-135
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.06
UNII-2A	5290	58	8.24
UNII-2C	5530	106	6.91
	5610	122	7.07
	5690	138	6.78
UNII-3	5775	155	6.44
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.37
UNII-2A	5290	58	8.36
UNII-2C	5530	106	7.02
	5610	122	7.14
	5690	138	7.00
UNII-3	5775	155	6.50

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.9 6 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-136
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 1

6GHz WIFI (160MHz 802.11ax ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-5	6025	15	2.52
	6345	79	3.46
UNII-6	6505	111	3.75
UNII-7	6665	143	3.08
UNII-8	6985	207	5.18

Table 8-137
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 2

6GHz WIFI (160MHz 802.11ax ANT 1b)			
Band	**Freq [MHz]**	**Channel**	**Avg. Conducted Powers [dBm]**
UNII-5	6025	15	2.50
	6345	79	3.52
UNII-6	6505	111	3.82
UNII-7	6665	143	3.03
UNII-8	6985	207	5.20

Table 8-138
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	1.98
	6345	79	0.51
UNII-6	6505	111	2.13
UNII-7	6665	143	0.57
UNII-8	6985	207	0.32

Table 8-139
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.42
	6345	79	0.54
UNII-6	6505	111	0.37
UNII-7	6665	143	1.34
UNII-8	6985	207	0.12

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-140
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	6.69
	6345	79	5.86
UNII-6	6505	111	6.45
UNII-7	6665	143	5.14
UNII-8	6985	207	5.66

Table 8-141
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	6.67
	6345	79	5.87
UNII-6	6505	111	6.12
UNII-7	6665	143	5.20
UNII-8	6985	207	5.13

8.10 WLAN Power Reduction Verification Summary

Table 8-110
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 3A	2.4 GHz WLAN	Main Band 3A/3B ON	12.5	6.5	11.85	6.37	Pass
	2.4 GHz WLAN	ULCA ON	12.5	6.5	11.85	6.25	Pass
Ant 1A	2.4 GHz WLAN	Main Band 1A/1B ON	12	6	11.02	5.41	Pass
	2.4 GHz WLAN	ULCA ON	12	6	11.02	5.44	Pass
Ant 3A	5 GHz WLAN	Main Band 3A/3B ON	10	4	9.84	2.76	Pass
	5 GHz WLAN	ULCA ON	10	4	9.85	2.75	Pass
Ant 3C	5 GHz WLAN	Main Band 3A/3B ON	15.25	9.25	12.6	7.89	Pass
	5 GHz WLAN	Main Band 4 ON	15.25	9.25	12.6	9.11	Pass
	5 GHz WLAN	ULCA ON	15.25	9.25	12.6	9.07	Pass
Ant 1B	5 GHz WLAN	Main Band 1A/1B ON	9.75	3.75	8.6	1.25	Pass
	5 GHz WLAN	Main Band 2A/2B ON	9.75	3.75	8.6	1.12	Pass
	5 GHz WLAN	ULCA ON	9.75	3.75	8.6	1	Pass
Ant 3A	6 GHz WLAN	Main Band 3A/3B ON	8.5	2.5	8.25	1.32	Pass
	6 GHz WLAN	ULCA ON	8.5	2.5	8.25	1.38	Pass
Ant 3C	6 GHz WLAN	Main Band 3A/3B ON	13.25	7.25	12.76	7.11	Pass
	6 GHz WLAN	Main Band 4 ON	13.25	7.25	12.76	7.13	Pass
	6 GHz WLAN	ULCA ON	13.25	7.25	12.76	7.13	Pass
Ant 1B	6 GHz WLAN	Main Band 1A/1B ON	9.5	3.5	9.11	1.57	Pass
	6 GHz WLAN	Main Band 2A/2B ON	9.5	3.5	9.11	1.53	Pass
	6 GHz WLAN	ULCA ON	9.5	3.5	9.11	1.28	Pass

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

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.11 Notes for WLAN

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

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

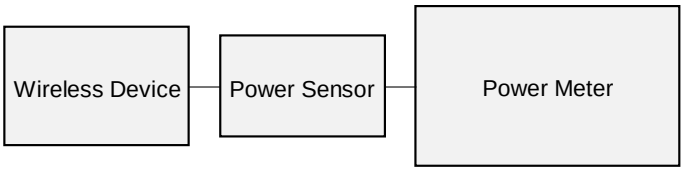


Figure 8-4
Power Measurement Setup

8.12 Bluetooth Maximum Conducted Powers

Table 8-142
Bluetooth Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.26	16.827
2441	GFSK	1.0	39	12.01	15.885
2480	GFSK	1.0	78	12.12	16.293

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-143
Bluetooth Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.42	17.458
2441	GFSK	1.0	39	12.15	16.144
2480	GFSK	1.0	78	12.10	15.959

Table 8-144
Bluetooth Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.30	16.982
2441	GFSK	1.0	39	12.25	16.788
2480	GFSK	1.0	78	12.21	16.634

Table 8-145
Bluetooth Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.63	18.323
2441	GFSK	1.0	39	12.32	17.061
2480	GFSK	1.0	78	12.51	17.824

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.13 Bluetooth Reduced Conducted Powers

Table 8-146
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.06	5.082
2441	GFSK	1.0	39	7.43	5.534
2480	GFSK	1.0	78	8.22	6.637

Table 8-147
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.42	5.521
2441	GFSK	1.0	39	7.84	6.081
2480	GFSK	1.0	78	8.46	7.015

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-148
Bluetooth 7 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.02	2.523
2441	GFSK	1.0	39	4.39	2.748
2480	GFSK	1.0	78	5.18	3.296

Table 8-149
Bluetooth 7 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.45	2.786
2441	GFSK	1.0	39	4.80	3.020
2480	GFSK	1.0	78	5.73	3.741

Table 8-150
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.56	5.702
2441	GFSK	1.0	39	8.03	6.353
2480	GFSK	1.0	78	7.86	6.109

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-151
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.45	5.559
2441	GFSK	1.0	39	7.87	6.124
2480	GFSK	1.0	78	7.60	5.754

Table 8-152
Bluetooth 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.19	3.304
2441	GFSK	1.0	39	5.51	3.556
2480	GFSK	1.0	78	5.48	3.532

Table 8-153
Bluetooth 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.98	3.148
2441	GFSK	1.0	39	5.40	3.467
2480	GFSK	1.0	78	5.28	3.373

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.14 Bluetooth Duty Cycle Plots

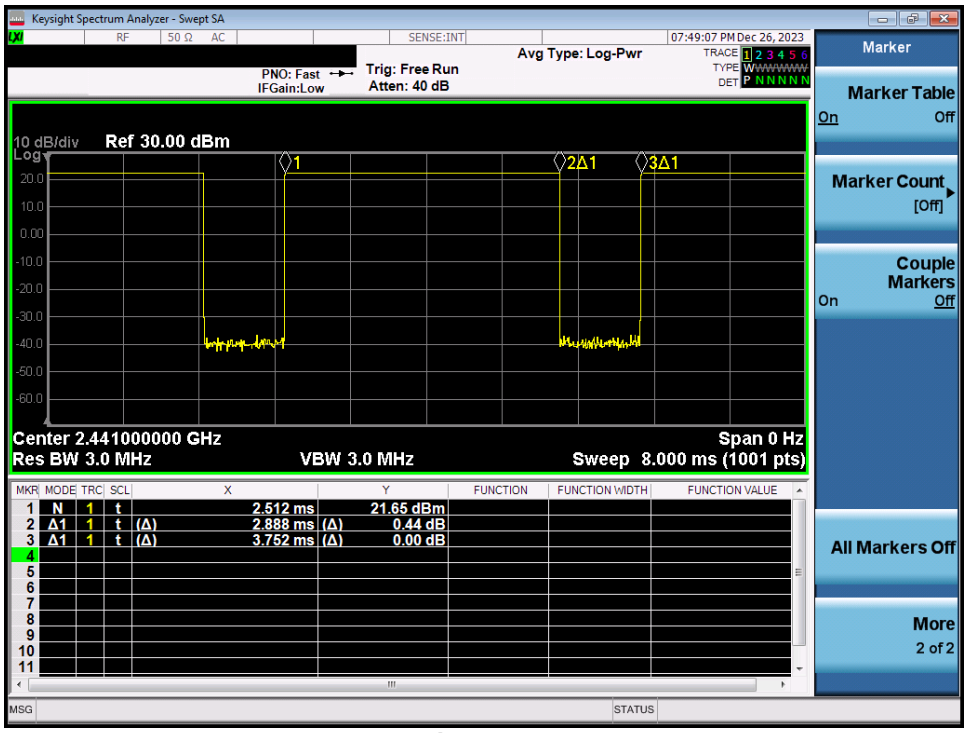


Figure 8-5
Bluetooth Transmission Plot – Antenna 1a, Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Antenna 1a, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

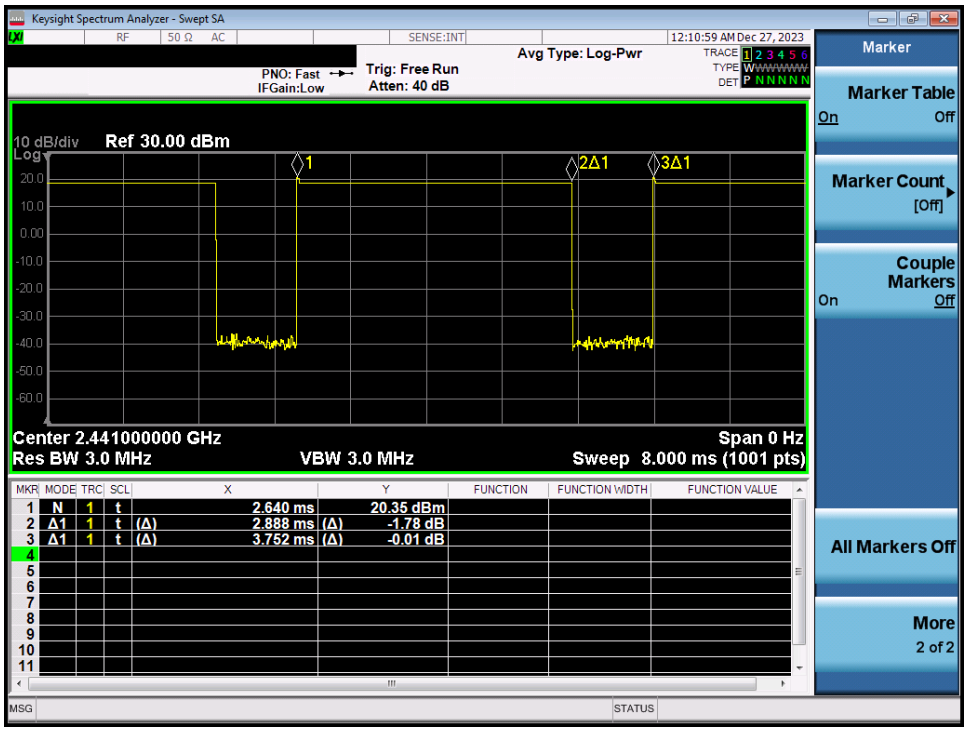


Figure 8-6
Bluetooth Transmission Plot – Antenna 1a, Variant 2

Equation 8-2
Bluetooth Duty Cycle Calculation – Antenna 1a, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

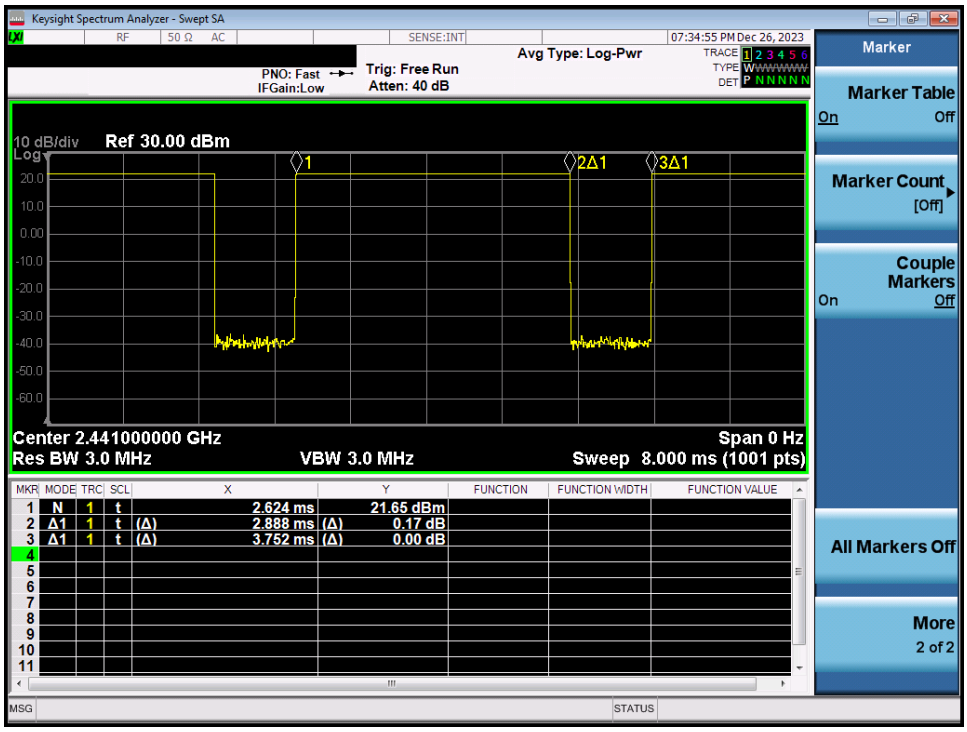


Figure 8-7
Bluetooth Transmission Plot – Antenna 3a, Variant 1

Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

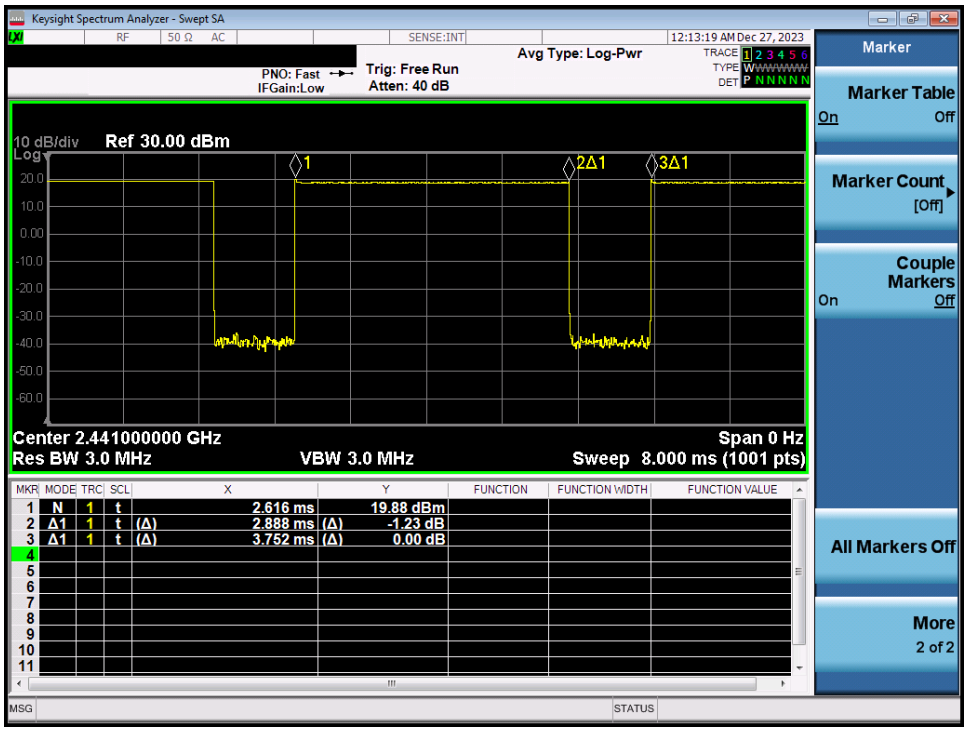


Figure 8-8
Bluetooth Transmission Plot – Antenna 3a, Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.15 802.15.4 Maximum Conducted Powers

Table 8-154
802.15.4 Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.11	12.912
2440	O-QPSK	0.25	18	11.25	13.335
2475	O-QPSK	0.25	25	11.15	13.032

Table 8-155
802.15.4 Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.06	12.764
2440	O-QPSK	0.25	18	11.00	12.589
2475	O-QPSK	0.25	25	11.03	12.677

Table 8-156
802.15.4 Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	13.17	20.749
2440	O-QPSK	0.25	18	12.70	18.621
2475	O-QPSK	0.25	25	12.60	18.197

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-157
802.15.4 Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	13.11	20.464
2440	O-QPSK	0.25	18	12.99	19.907
2475	O-QPSK	0.25	25	12.48	17.701

8.16 802.15.4 Reduced Conducted Powers

Table 8-158
802.15.4 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.56	5.702
2440	O-QPSK	0.25	18	7.58	5.728
2475	O-QPSK	0.25	25	7.73	5.929

Table 8-159
802.15.4 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.60	5.754
2440	O-QPSK	0.25	18	7.33	5.408
2475	O-QPSK	0.25	25	7.87	6.124

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-160
802.15.4 7 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	4.82	3.034
2440	O-QPSK	0.25	18	5.07	3.214
2475	O-QPSK	0.25	25	5.31	3.396

Table 8-161
802.15.4 7 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.01	3.170
2440	O-QPSK	0.25	18	5.23	3.334
2475	O-QPSK	0.25	25	5.06	3.206

Table 8-162
802.15.4 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.74	5.943
2440	O-QPSK	0.25	18	7.71	5.902
2475	O-QPSK	0.25	25	8.05	6.383

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-163
802.15.4 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	7.96	6.252
2440	O-QPSK	0.25	18	7.86	6.109
2475	O-QPSK	0.25	25	8.11	6.476

Table 8-164
802.15.4 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

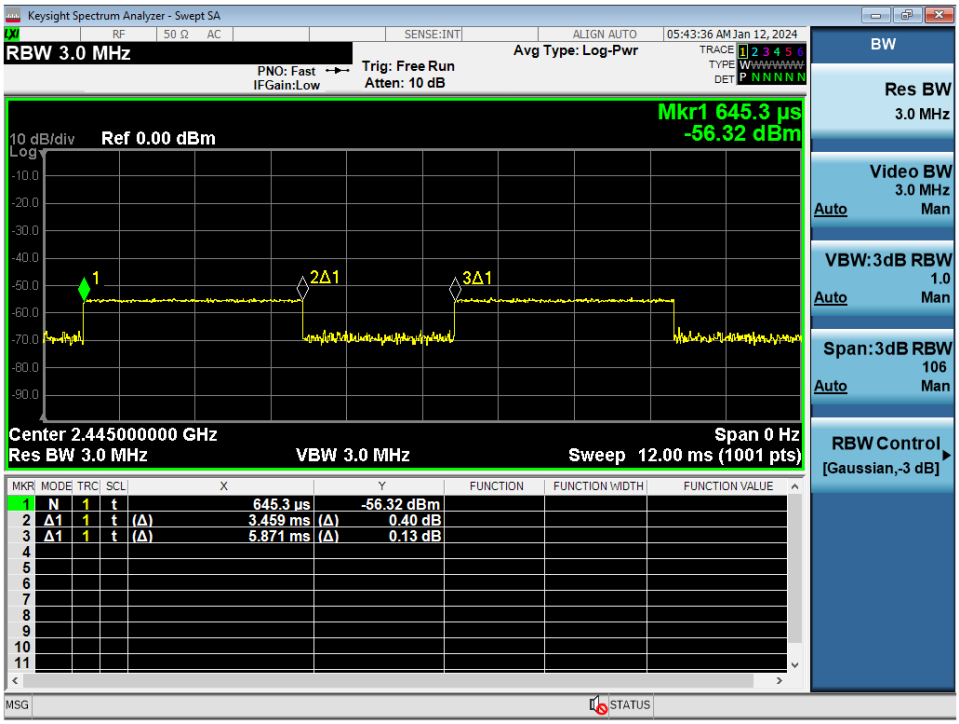
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.30	3.388
2440	O-QPSK	0.25	18	5.24	3.342
2475	O-QPSK	0.25	25	5.27	3.365

Table 8-165
802.15.4 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.41	3.475
2440	O-QPSK	0.25	18	5.32	3.404
2475	O-QPSK	0.25	25	5.56	3.597

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.17 802.15.4 Duty Cycle Plots



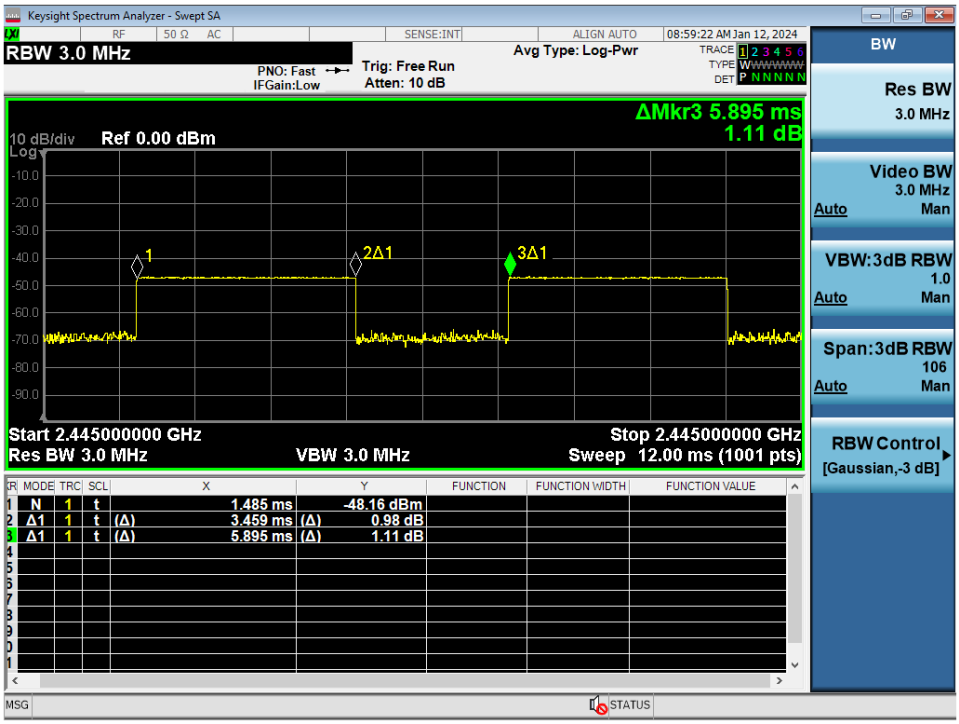
Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Figure 8-9
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 1

Equation 8-5
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{3.459\ ms}{5.871\ ms} * 100\% = 58.9\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.



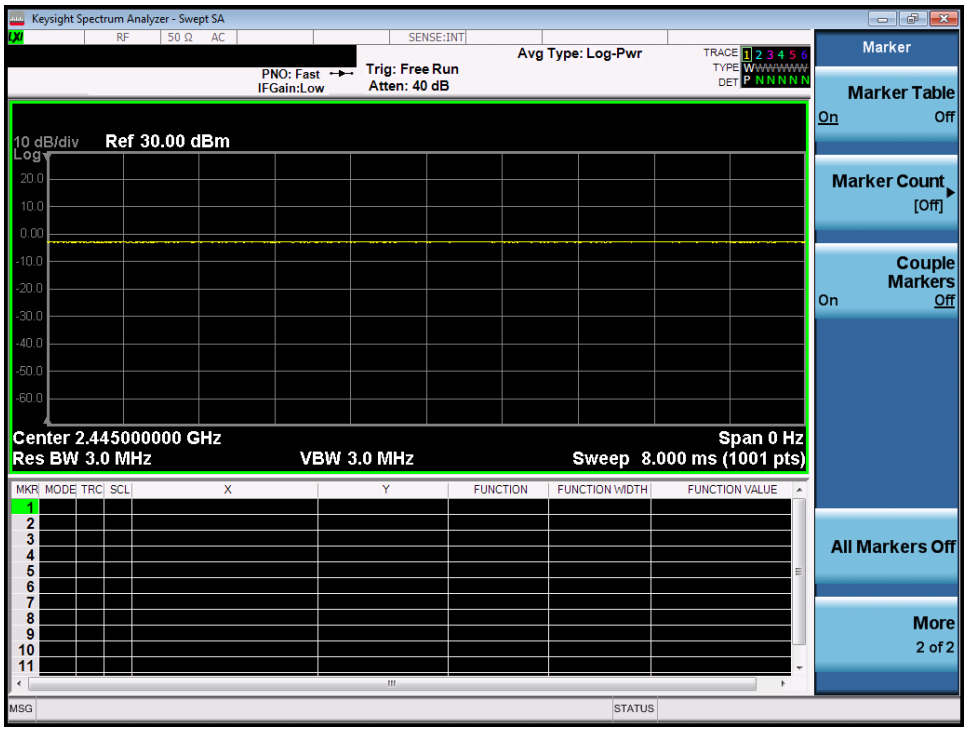
Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Figure 8-10
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 2

Equation 8-6
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{3.459\ ms}{5.895\ ms} * 100\% = 58.7\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.



Test mode measured duty cycle for 802.15.4 during SAR measurement.

Figure 8-11
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 1 and 2

Equation 8-7
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 1 and 2

$$\boldsymbol{Duty\ Cycle} = \mathbf{100}\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.18 Bluetooth and 802.15.4 Reduction Verification Summary

Table 8-166
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power
					[dBm]	[dBm]
Ant 3A	2.4 GHz Bluetooth	Main Band 3A/3B ON	13	8.5	11.24	7.21
	2.4 GHz Bluetooth	ULCA ON	13	6	11.24	4.3
	802.15.4	Main band Ant 1A/1B ON and 5/6 GHZ WLAN 3A/3C ON	13.5	9	13.05	8.67
	802.15.4	Main band Ant 2A/2B ON and 5/6 GHz WLAN Ant 3A/3C ON	13.5	9	13.05	8.67
	802.15.4	Main band Ant 3A/3B ON and 5/6 GHz WLAN Ant 3A/3C ON	13.5	6.5	13.05	4.82
	802.15.4	Main Band Ant 4 ON and 5/6 GHz WLAN Ant 3A/3C ON	13.5	6.5	13.05	4.82
	2.4 GHz Bluetooth	ULCA ON and 5/6 GHz WLAN 3A/3C ON	13	6	11.24	4.19
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 3A/3C ON	13	8.5	11.24	7.49
Ant 1A	802.15.4	Main Band 1A/1B ON	13	8.5	12.23	7.42
	802.15.4	ULCA ON	13	6	12.23	4.77
	2.4 GHz Bluetooth	Main band Ant 1A/1B ON and 5/6 GHZ WLAN 1B ON	13	6	12.93	4.99
	2.4 GHz Bluetooth	Main band Ant 2A/2B ON and 5/6 GHZ WLAN 1B ON	13	6	12.93	4.99
	2.4 GHz Bluetooth	Main band Ant 3A/3B ON and 5/6 GHZ WLAN 1B ON	13	8.5	12.93	7.95
	2.4 GHz Bluetooth	Main band Ant 4 ON and 5/6 GHZ WLAN 1B ON	13	8.5	12.93	7.95
	802.15.4	ULCA ON and 5/6 GHz WLAN 1B ON	13	6	12.23	4.77
	802.15.4	5/6 GHZ WLAN 1B ON	13	8.5	12.23	7.42

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

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

8.19 Notes for Bluetooth

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

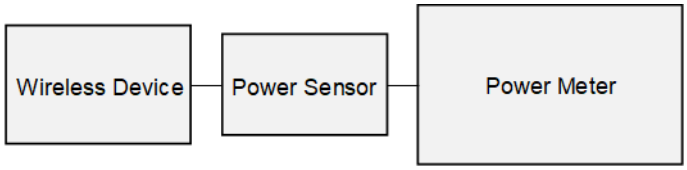


Figure 8-12
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.20 NB UNII Maximum Conducted Powers

Table 8-167
NB UNII Average RF Power – Antenna 1b, Variant 1

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	9.41
		5204	Mid	9.44
		5245	High	10.17
BDR	U-NII 3	5733	Low	10.07
		5789	Mid	9.65
		5844	High	9.56

Table 8-168
NB UNII Average RF Power – Antenna 1b, Variant 2

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	9.42
		5204	Mid	9.35
		5245	High	9.89
BDR	U-NII 3	5733	Low	9.83
		5789	Mid	9.66
		5844	High	9.85

Table 8-169
NB UNII Average RF Power – Antenna 3a, Variant 1

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.32
		5204	Mid	11.45
		5245	High	11.15
BDR	U-NII 3	5733	Low	11.86
		5789	Mid	11.78
		5844	High	11.68

Table 8-170
NB UNII Average RF Power – Antenna 3a, Variant 2

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.67
		5204	Mid	11.70
		5245	High	11.63
BDR	U-NII 3	5733	Low	12.05
		5789	Mid	11.89
		5844	High	11.94

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-171
NB UNII Average RF Power – Antenna 3c, Variant 1

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.6
		5204	Mid	12.48
		5245	High	12.39
BDR	U-NII 3	5733	Low	12.71
		5789	Mid	12.6
		5844	High	12.53

Table 8-172
NB UNII Average RF Power – Antenna 3c, Variant 2

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.56
		5204	Mid	12.44
		5245	High	12.51
BDR	U-NII 3	5733	Low	12.55
		5789	Mid	12.54
		5844	High	12.52

8.21 NB UNII Reduced Conducted Powers

Table 8-173
NB UNII 4.5 dB Reduced Average RF Power – Antenna 1b, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	4.41
		5204	Mid	4.61
		5245	High	4.69
BDR	U-NII 3	5733	Low	4.40
		5789	Mid	4.21
		5844	High	4.14

Table 8-174
NB UNII 4.5 dB Reduced Average RF Power – Antenna 1b, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	4.81
		5204	Mid	4.70
		5245	High	4.73
BDR	U-NII 3	5733	Low	4.25
		5789	Mid	4.18
		5844	High	4.03

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-175
NB UNII 7 dB Reduced Average RF Power – Antenna 1b, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.03
		5204	Mid	2.15
		5245	High	2.17
BDR	U-NII 3	5733	Low	2.42
		5789	Mid	2.33
		5844	High	2.06

Table 8-176
NB UNII 7 dB Reduced Average RF Power – Antenna 1b, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.08
		5204	Mid	2.14
		5245	High	2.24
BDR	U-NII 3	5733	Low	2.92
		5789	Mid	2.85
		5844	High	2.57

Table 8-177
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Type	Band	Frequency	Frequency	Average
HDR4	U-NII 1	5162	Low	9.47
		5204	Mid	9.66
		5245	High	9.68
BDR	U-NII 3	5733	Low	6.45
		5789	Mid	6.29
		5844	High	6.27

Table 8-178
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Type	Band	Frequency	Frequency	Average
HDR4	U-NII 1	5162	Low	9.52
		5204	Mid	9.35
		5245	High	9.57
BDR	U-NII 3	5733	Low	7.95
		5789	Mid	7.96
		5844	High	7.85

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-179
NB UNII 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	7.49
		5204	Mid	7.25
		5245	High	7.27
BDR	U-NII 3	5733	Low	4.48
		5789	Mid	4.29
		5844	High	4.24

Table 8-180
NB UNII 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	7.90
		5204	Mid	7.91
		5245	High	7.93
BDR	U-NII 3	5733	Low	4.48
		5789	Mid	4.47
		5844	High	4.39

Table 8-181
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3c, Variant 1

Type	Band	Frequency	Frequency	Average
HDR4	U-NII 1	5162	Low	12.00
		5204	Mid	11.94
		5245	High	12.01
BDR	U-NII 3	5733	Low	10.13
		5789	Mid	10.18
		5844	High	10.16

Table 8-182
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3c, Variant 2

Type	Band	Frequency	Frequency	Average
HDR4	U-NII 1	5162	Low	11.38
		5204	Mid	11.40
		5245	High	11.05
BDR	U-NII 3	5733	Low	10.66
		5789	Mid	10.73
		5844	High	10.65

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 8-183
NB UNII 7 dB Reduced Average RF Power – Antenna 3c, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	8.72
		5204	Mid	8.41
		5245	High	8.35
BDR	U-NII 3	5733	Low	7.71
		5789	Mid	7.50
		5844	High	7.40

Table 8-184
NB UNII 7 dB Reduced Average RF Power – Antenna 3c, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	9.02
		5204	Mid	8.88
		5245	High	8.75
BDR	U-NII 3	5733	Low	8.08
		5789	Mid	8.02
		5844	High	8.17

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

8.22 NB UNII Duty Cycle Plots

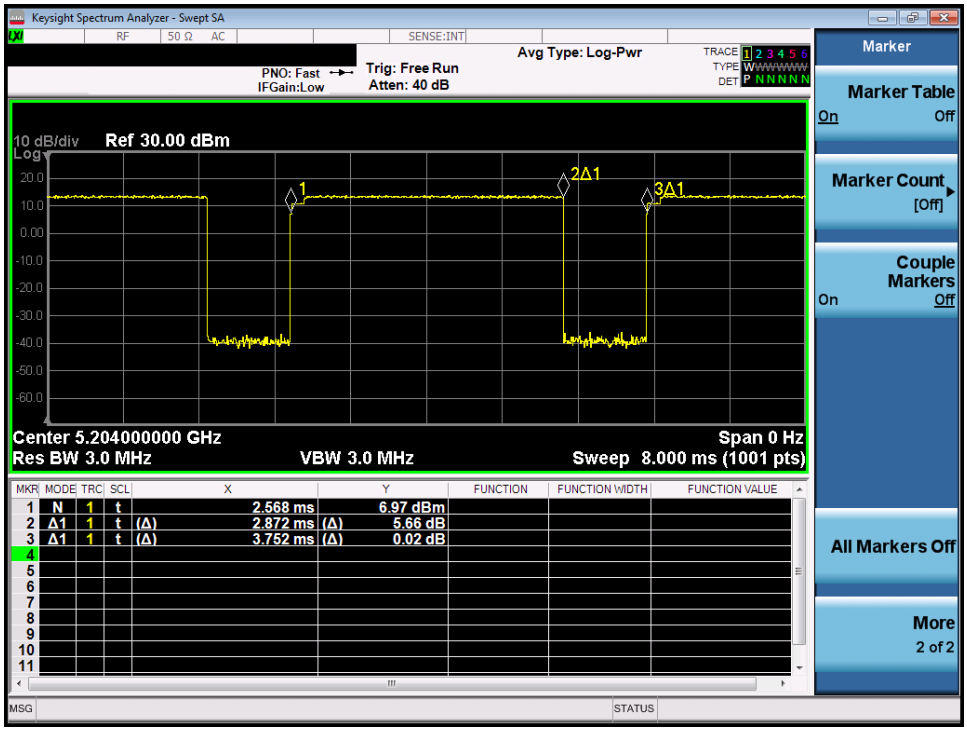


Figure 8-13
NB UNII HDR4 Transmission Plot – Antenna 1b, Variant 1

Equation 8-8
NB UNII HDR4 Duty Cycle Calculation – Antenna 1b, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.872\ ms}}{\mathbf{3.752\ ms}} * \mathbf{100\%} = \mathbf{76.5\%}$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

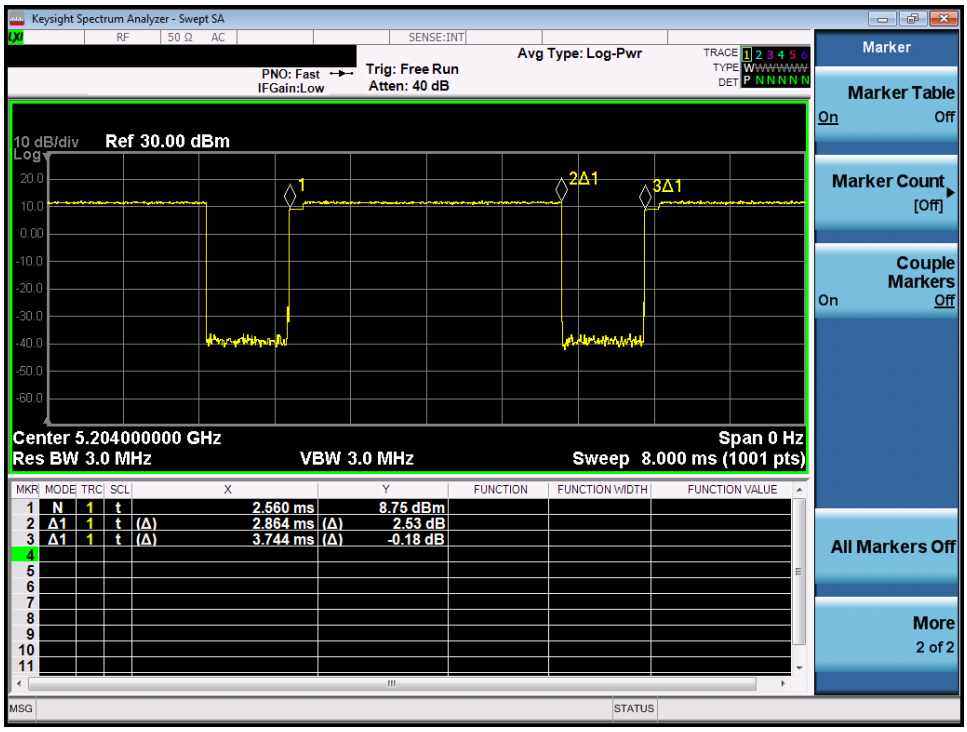


Figure 8-14
NB UNII HDR4 Transmission Plot – Antenna 1b, Variant 2

Equation 8-9
NB UNII HDR4 Duty Cycle Calculation – Antenna 1b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

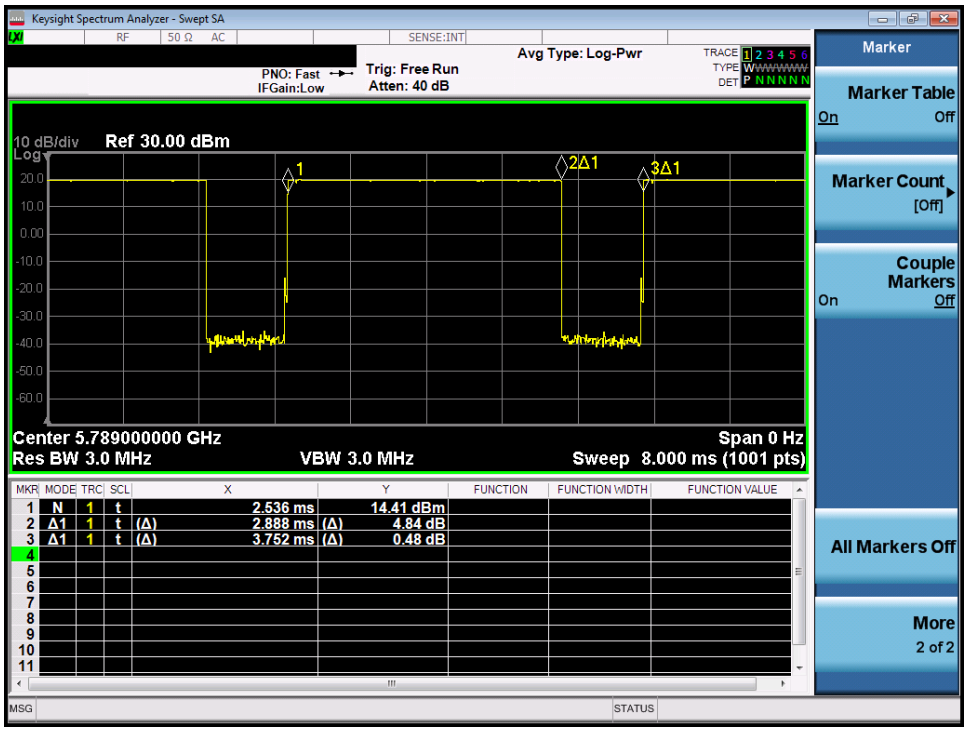


Figure 8-15
NB UNII BDR Transmission Plot – Antenna 1b, Variant 1

Equation 8-10
NB UNII BDR Duty Cycle Calculation – Antenna 1b, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

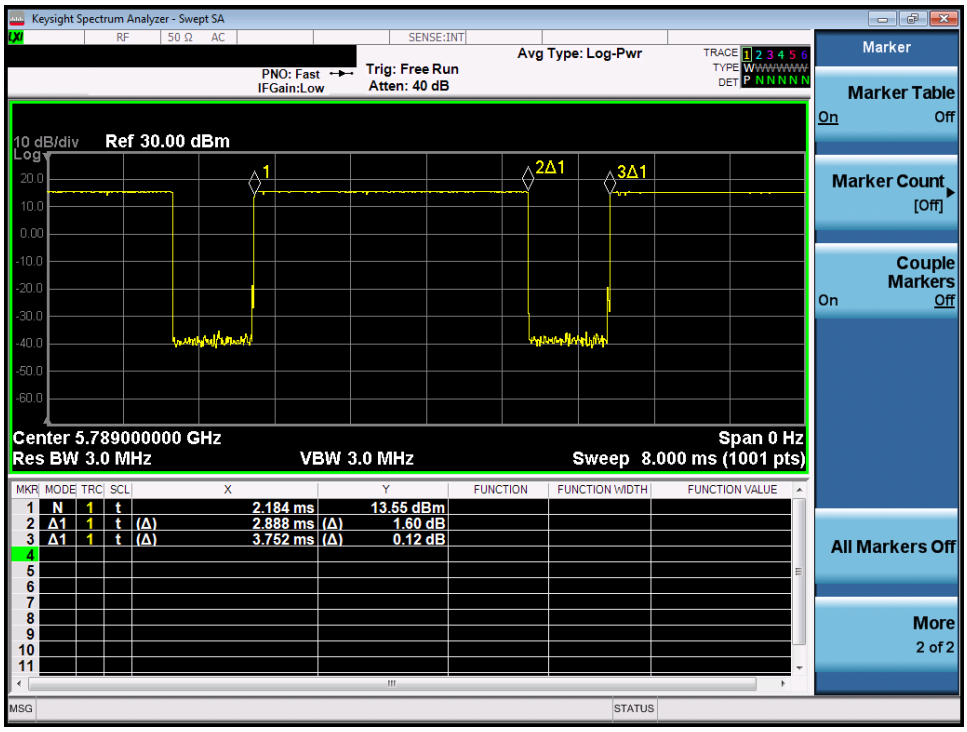


Figure 8-16
NB UNII BDR Transmission Plot – Antenna 1b, Variant 2

Equation 8-11
NB UNII BDR Duty Cycle Calculation – Antenna 1b, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

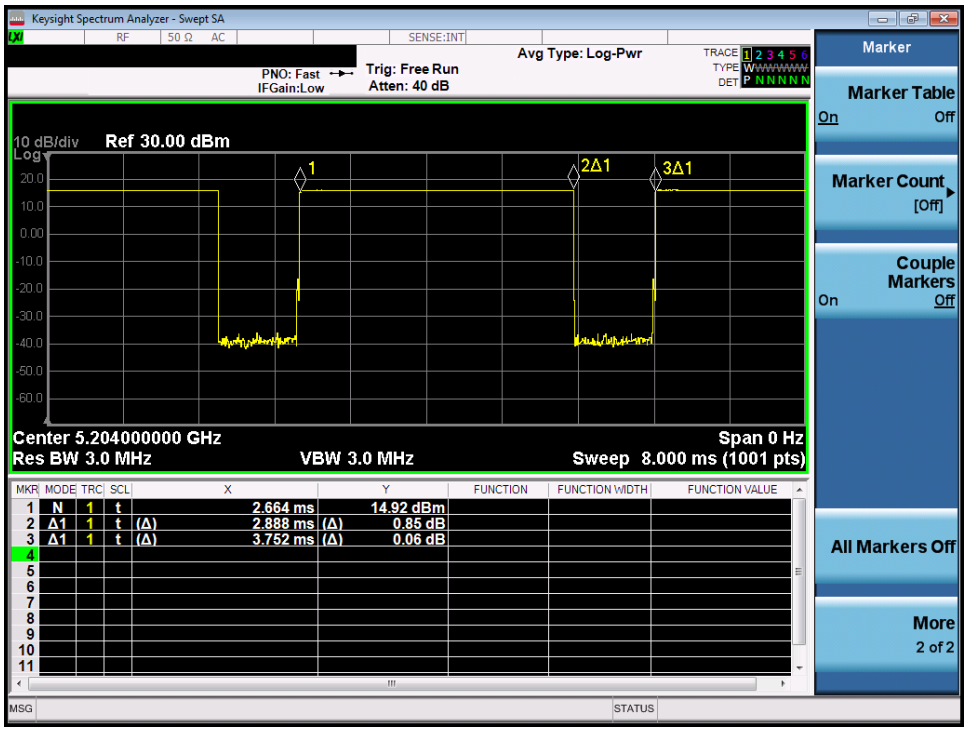


Figure 8-17
NB UNII BDR Transmission Plot – Antenna 1b, Variant 1

Equation 8-12
NB UNII BDR Duty Cycle Calculation – Antenna 1b, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

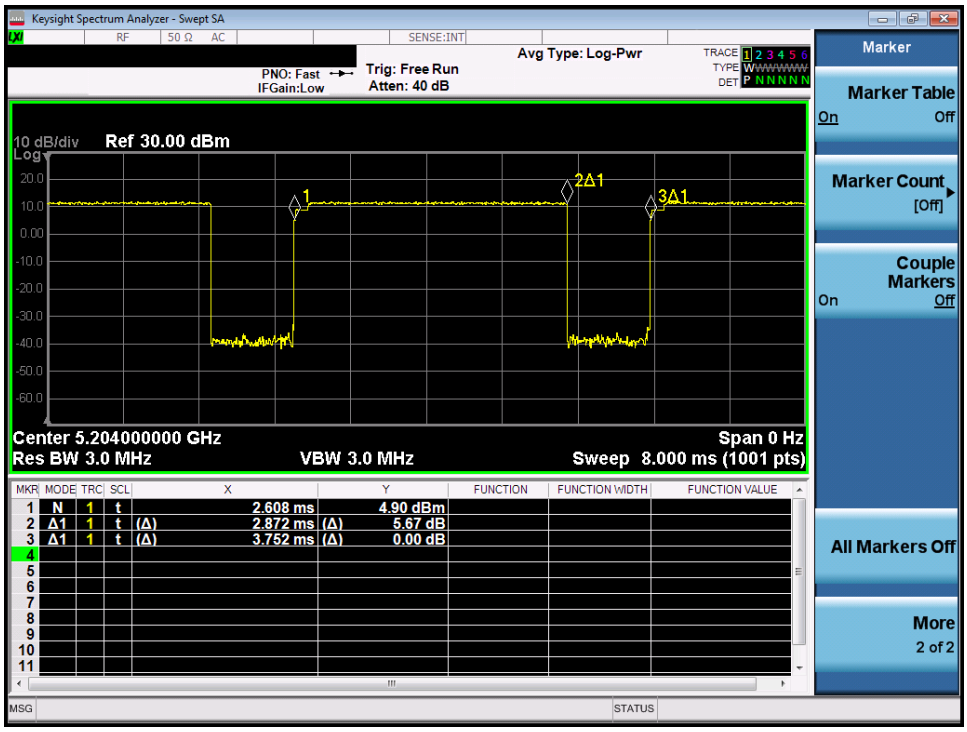


Figure 8-18
NB UNII HDR4 Transmission Plot – Antenna 3a, Variant 1

Equation 8-13
NB UNII HDR4 Duty Cycle Calculation – Antenna 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.752\ ms} * 100\% = 76.5\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

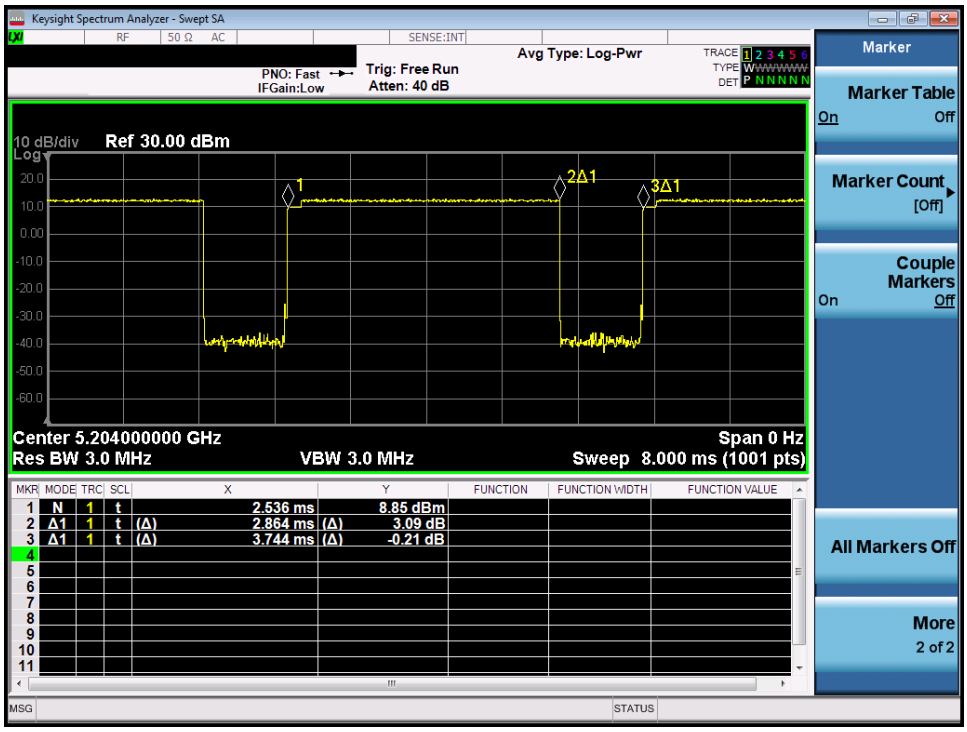


Figure 8-19
NB UNII HDR4 Transmission Plot – Antenna 3a, Variant 2

Equation 8-14
NB UNII HDR4 Duty Cycle Calculation – Antenna 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

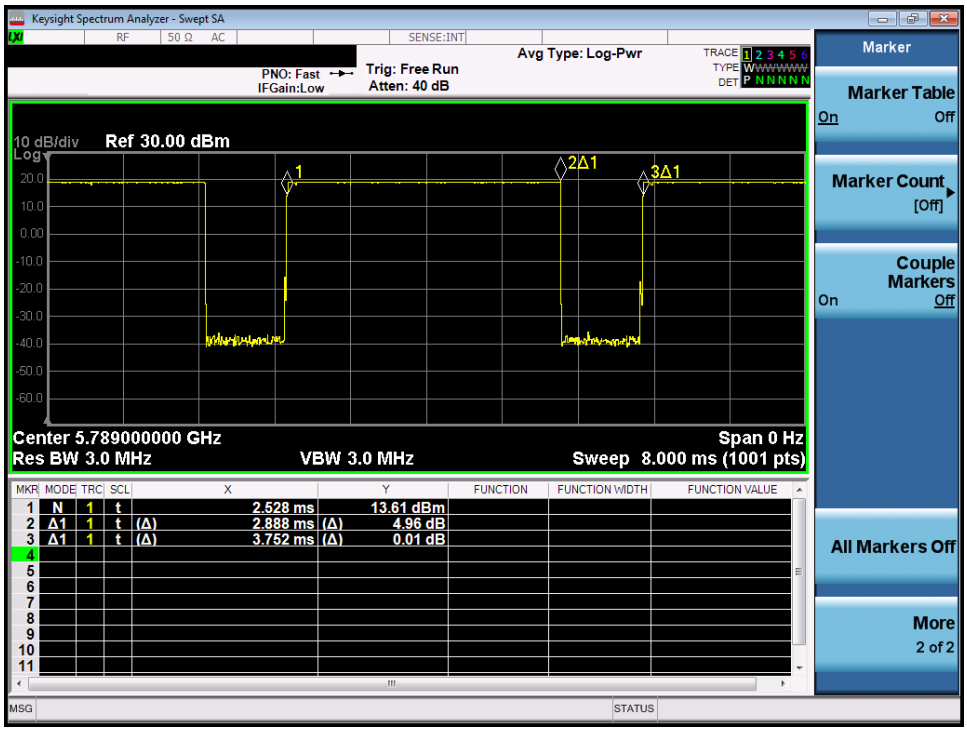


Figure 8-20
NB UNII BDR Transmission Plot – Antenna 3a, Variant 1

Equation 8-15
NB UNII BDR Duty Cycle Calculation – Antenna 3a, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

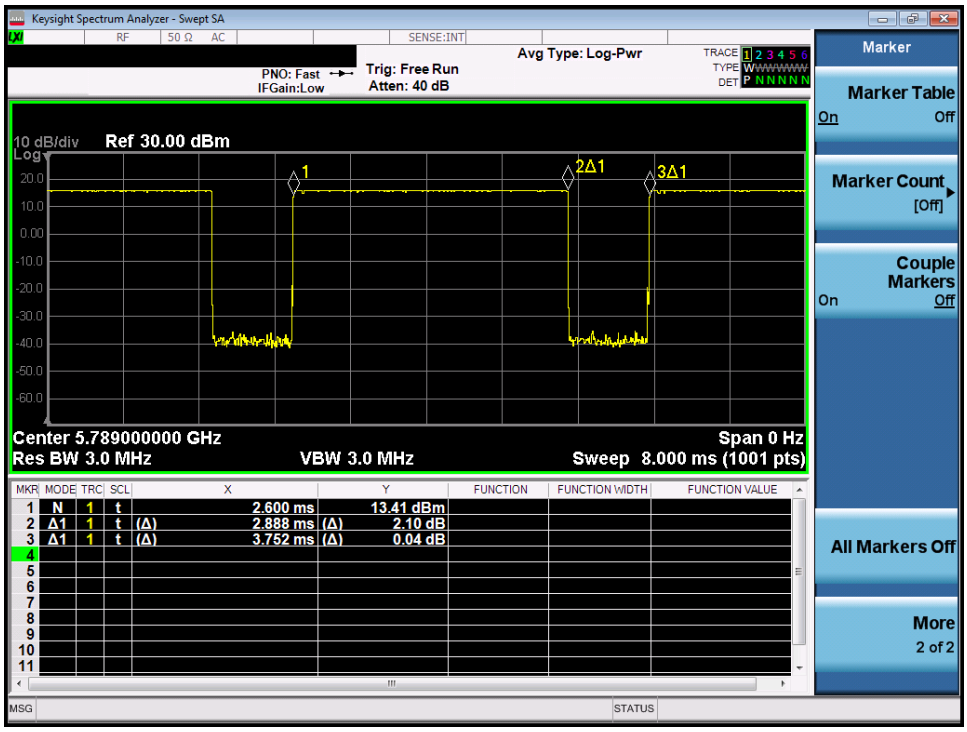


Figure 8-21
NB UNII BDR Transmission Plot – Antenna 3a, Variant 2

Equation 8-16
NB UNII BDR Duty Cycle Calculation – Antenna 3a, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

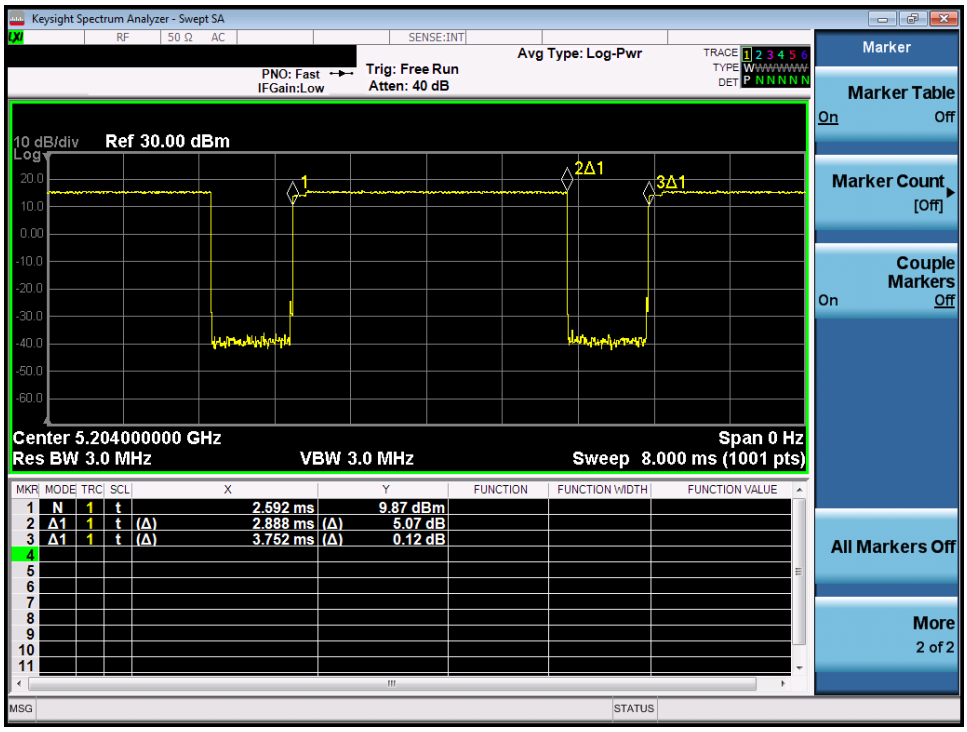


Figure 8-22
NB UNII HDR8 Transmission Plot – Antenna 3c, Variant 1

Equation 8-17
NB UNII HDR8 Duty Cycle Calculation – Antenna 3c, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

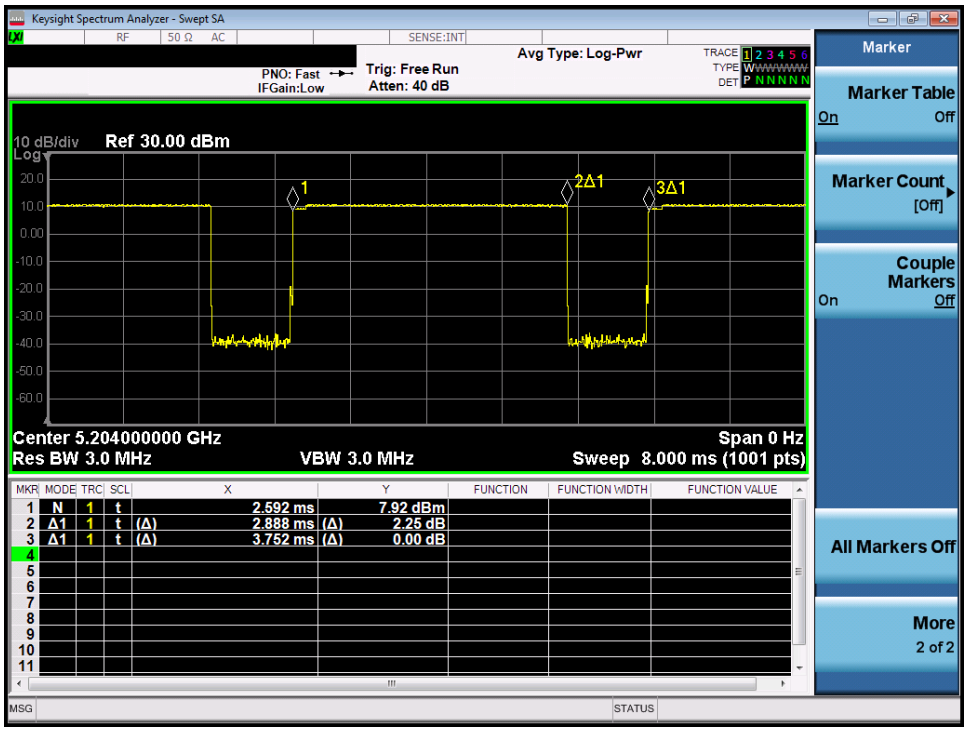


Figure 8-23
NB UNII HDR8 Transmission Plot – Antenna 3c, Variant 2

Equation 8-18
NB UNII HDR8 Duty Cycle Calculation – Antenna 3c, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

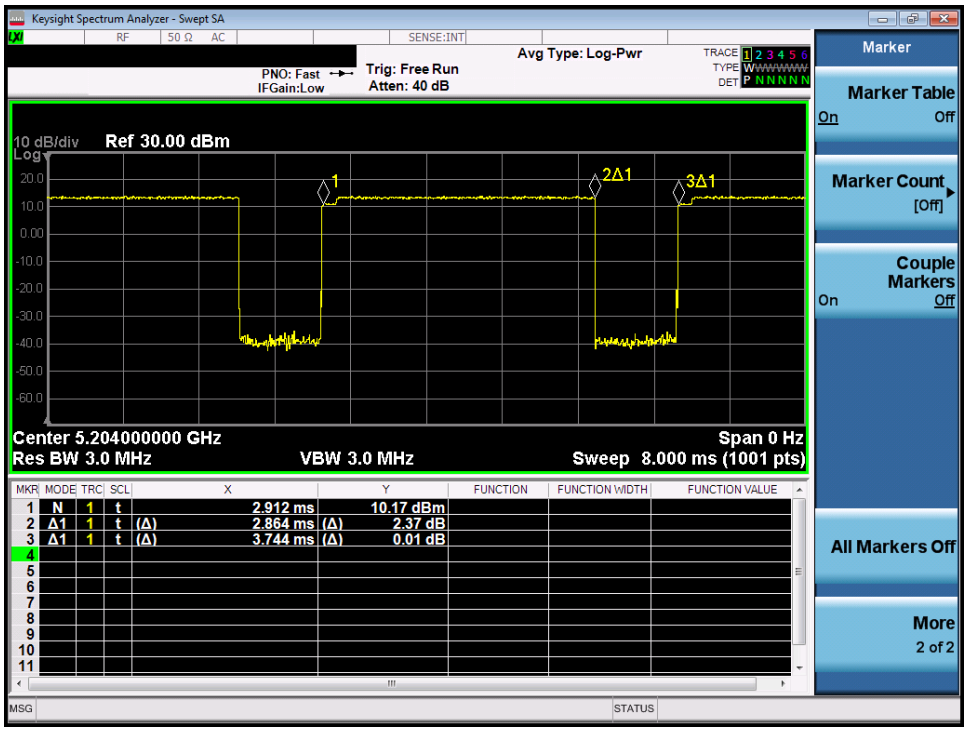


Figure 8-24
NB UNII HDR4 Transmission Plot – Antenna 3c, Variant 2

Equation 8-19
NB UNII HDR4 Duty Cycle Calculation – Antenna 3c, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

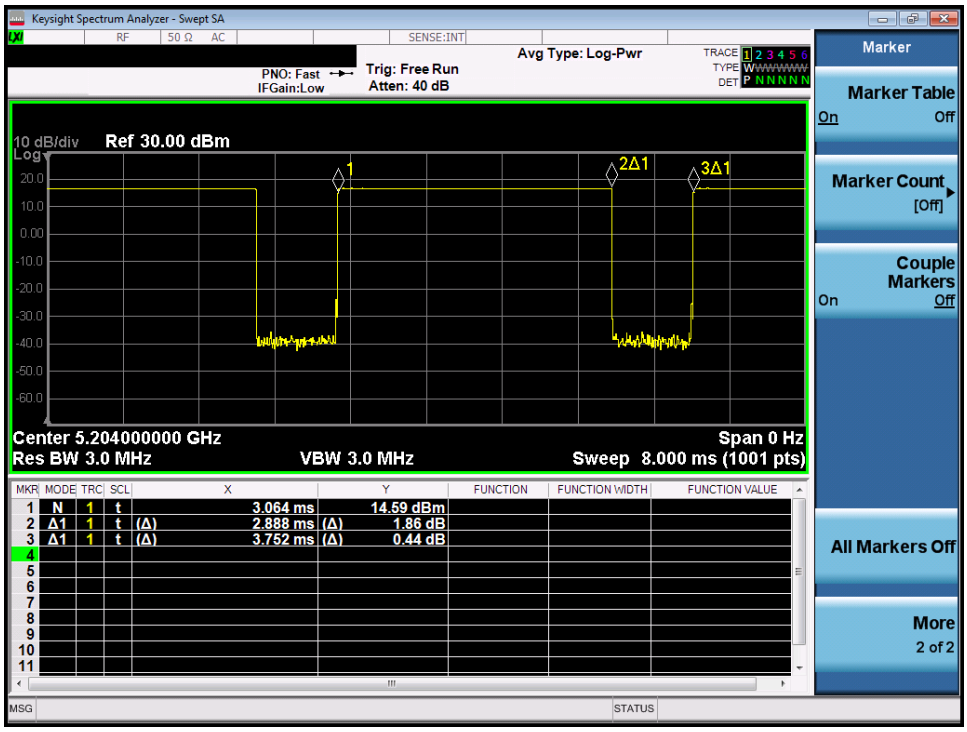


Figure 8-25
NB UNII BDR Transmission Plot – Antenna 3c, Variant 2

Equation 8-20
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

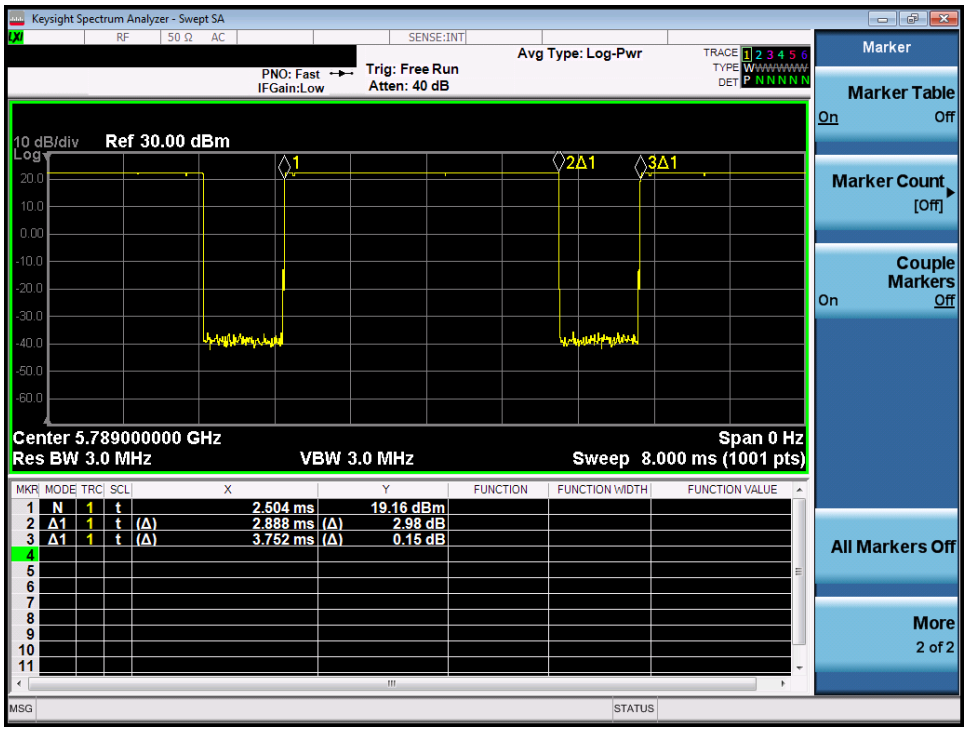


Figure 8-26
NB UNII BDR Transmission Plot – Antenna 3c, Variant 1

Equation 8-21
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 1

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

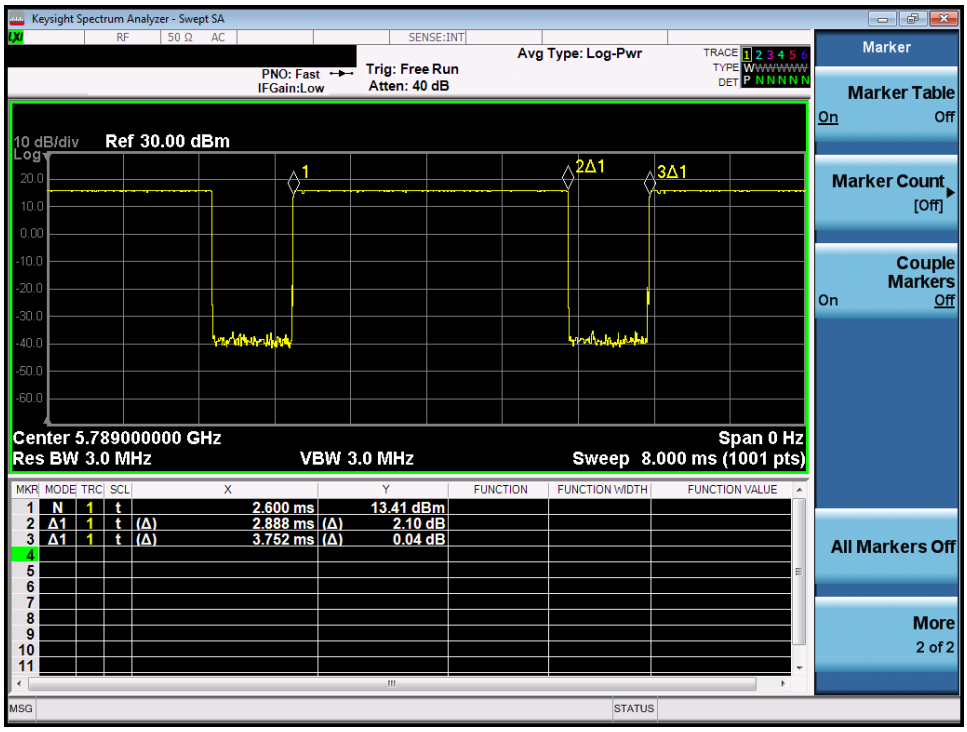


Figure 8-27
NB UNII BDR Transmission Plot – Antenna 3c, Variant 2

Equation 8-22
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 2

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

8.23 NB UNII Reduction Verification Summary

Table 8-185
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 1B	NB UNII	Main Band 1A/1B ON	10.5	6	8.64	5.1	Pass
	NB UNII	ULCA ON	10.5	3.5	8.64	2.32	Pass
	NB UNII	2.4 GHz WLAN Ant 1a	10.5	6	8.64	5.4	Pass
	NB UNII	ULCA ON an 2.4 GHz WLAN 1A ON	10.5	3.5	8.64	2.29	Pass
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 1A ON	10.5	3.5	8.64	2.29	Pass
	NB UNII	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 1A ON	10.5	3.5	8.64	2.29	Pass
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 1A ON	10.5	6	8.64	5.14	Pass
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 1A ON	10.5	6	8.64	5.14	Pass
Ant 3C	NB UNII	Main Band 3A/3B ON	13.5	11.5	11.85	9.03	Pass
	NB UNII	ULCA ON	13.5	9	11.85	8.12	Pass
	NB UNII	2.4 GHz WLAN Ant 3a	13.5	11.5	11.85	9.03	Pass
	NB UNII	ULCA ON an 2.4 GHz WLAN 3A ON	13.5	9	11.85	8.12	Pass
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 3A ON	13.5	11.5	11.85	9.03	Pass
	NB UNII	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 3A ON	13.5	11.5	11.85	9.03	Pass
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 3A ON	13.5	9	11.85	6.64	Pass
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 3A ON	13.5	9	11.85	6.64	Pass
Ant 3A	NB UNII	Main Band 3A/3B ON	12.5	8	11.9	6.14	Pass
	NB UNII	ULCA ON	12.5	5.5	11.9	4.04	Pass
	NB UNII	2.4 GHz WLAN Ant 3a	12.5	8	11.9	6.01	Pass
	NB UNII	ULCA ON an 2.4 GHz WLAN 3A ON	12.5	5.5	11.9	4.08	Pass
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 3A ON	12.5	8	11.9	6.14	Pass
	NB UNII	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 3A ON	12.5	8	11.9	6.14	Pass
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 3A ON	12.5	5.5	11.9	4.04	Pass
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 3A ON	12.5	5.5	11.9	4.08	Pass

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

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

8.24 Notes for NB UNII

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

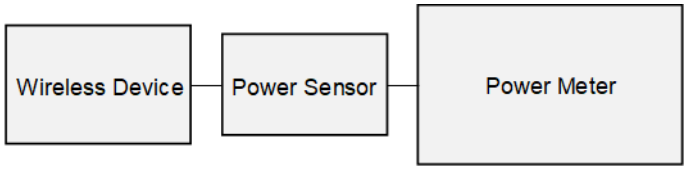


Figure 8-28
Power Measurement Setup

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
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
01/02/2024	13 Head	22.6	12	0.725	53.346	0.750	55.000	-3.33%	-3.01%
			13	0.725	53.337	0.750	55.000	-3.33%	-3.02%
			14	0.725	53.291	0.750	55.000	-3.33%	-3.11%
			30	0.728	52.949	0.750	55.000	-2.93%	-3.73%
			60	0.733	52.109	0.753	54.325	-2.66%	-4.08%
			65	0.735	52.018	0.753	54.213	-2.39%	-4.05%
			150	0.763	50.363	0.760	52.300	0.39%	-3.70%
			150	0.763	50.363	0.760	52.300	0.39%	-3.70%
11/30/2023	750 Head	23.0	695	0.847	44.065	0.889	42.227	-4.72%	4.35%
			700	0.851	43.997	0.889	42.201	-4.27%	4.26%
			710	0.860	43.856	0.890	42.149	-3.37%	4.05%
			725	0.874	43.655	0.891	42.071	-1.91%	3.77%
			750	0.898	43.344	0.894	41.942	0.45%	3.34%
			770	0.917	43.093	0.895	41.838	2.46%	3.00%
			785	0.932	42.898	0.896	41.760	4.02%	2.73%
			795	0.941	42.762	0.897	41.708	4.91%	2.53%
12/02/2023	750 Head	24.9	695	0.846	43.847	0.889	42.227	-4.84%	3.84%
			700	0.851	43.777	0.889	42.201	-4.27%	3.73%
			710	0.860	43.651	0.890	42.149	-3.37%	3.56%
			725	0.874	43.474	0.891	42.071	-1.91%	3.33%
			750	0.896	43.184	0.894	41.942	0.22%	2.96%
			770	0.914	42.918	0.895	41.838	2.12%	2.58%
			785	0.929	42.715	0.896	41.760	3.68%	2.29%
12/03/2023	750 Head	22.0	680	0.858	41.028	0.888	42.305	-3.38%	-3.02%
			695	0.863	40.982	0.889	42.227	-2.92%	-2.95%
			710	0.868	40.929	0.890	42.149	-2.47%	-2.89%
			725	0.873	40.879	0.891	42.071	-2.02%	-2.83%
			750	0.882	40.798	0.894	41.942	-1.34%	-2.73%
			770	0.889	40.728	0.895	41.838	-0.67%	-2.65%
			785	0.894	40.681	0.896	41.760	-0.22%	-2.58%
			800	0.899	40.633	0.897	41.682	0.22%	-2.52%
12/06/2023	750 Head	21.3	680	0.850	41.993	0.888	42.305	-4.28%	-0.74%
			695	0.855	41.941	0.889	42.227	-3.82%	-0.68%
			700	0.857	41.928	0.889	42.201	-3.60%	-0.65%
			710	0.861	41.903	0.890	42.149	-3.26%	-0.58%
			725	0.866	41.860	0.891	42.071	-2.81%	-0.50%
			750	0.874	41.812	0.894	41.942	-2.24%	-0.31%
			770	0.880	41.752	0.895	41.838	-1.68%	-0.21%
			785	0.885	41.701	0.896	41.760	-1.23%	-0.14%
			800	0.891	41.648	0.897	41.682	-0.67%	-0.08%
12/10/2023	750 Head	23.3	680	0.879	40.467	0.888	42.305	-1.01%	-4.34%
			695	0.884	40.428	0.889	42.227	-0.56%	-4.26%
			710	0.890	40.405	0.890	42.149	0.00%	-4.14%
			725	0.895	40.377	0.891	42.071	0.45%	-4.03%
			750	0.903	40.295	0.894	41.942	1.01%	-3.93%
			770	0.909	40.200	0.895	41.838	1.56%	-3.92%
			785	0.915	40.138	0.896	41.760	2.12%	-3.88%
			800	0.920	40.099	0.897	41.682	2.56%	-3.80%
12/11/2023	750 Head	20.2	695	0.849	43.730	0.889	42.227	-4.50%	3.56%
			700	0.852	43.666	0.889	42.201	-4.16%	3.47%
			710	0.860	43.529	0.890	42.149	-3.37%	3.27%
			725	0.873	43.297	0.891	42.071	-2.02%	2.91%
			750	0.902	42.873	0.894	41.942	0.89%	2.22%
			770	0.923	42.602	0.895	41.838	3.13%	1.83%
			785	0.936	42.449	0.896	41.760	4.46%	1.65%
01/18/2024	750 Head	22.3	680	0.853	40.872	0.888	42.305	-3.94%	-3.39%
			695	0.858	40.834	0.889	42.227	-3.49%	-3.30%
			700	0.859	40.823	0.889	42.201	-3.37%	-3.27%
			710	0.863	40.797	0.890	42.149	-3.03%	-3.21%
			725	0.867	40.751	0.891	42.071	-2.69%	-3.14%
			750	0.876	40.683	0.894	41.942	-2.01%	-3.00%
			770	0.883	40.631	0.895	41.838	-1.34%	-2.88%
			785	0.889	40.595	0.896	41.760	-0.78%	-2.79%
			800	0.894	40.554	0.897	41.682	-0.33%	-2.71%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
12/02/2023	835 Head	19.9	815	0.897	42.519	0.898	41.594	-0.11%	2.22%
			820	0.902	42.450	0.899	41.578	0.33%	2.10%
			835	0.917	42.253	0.900	41.500	1.89%	1.81%
			850	0.931	42.066	0.916	41.500	1.64%	1.36%
12/04/2023	835 Head	21.7	815	0.859	40.827	0.898	41.594	-4.34%	-1.84%
			820	0.864	40.762	0.899	41.578	-3.89%	-1.96%
			835	0.878	40.578	0.900	41.500	-2.44%	-2.22%
			850	0.892	40.402	0.916	41.500	-2.62%	-2.65%
12/06/2023	835 Head	19.6	815	0.862	39.989	0.898	41.594	-4.01%	-3.86%
			820	0.866	39.923	0.899	41.578	-3.67%	-3.98%
			835	0.880	39.733	0.900	41.500	-2.22%	-4.26%
			850	0.894	39.542	0.916	41.500	-2.40%	-4.72%
12/17/2023	835 Head	19.6	815	0.890	41.867	0.898	41.594	-0.89%	0.66%
			820	0.895	41.803	0.899	41.578	-0.44%	0.54%
			835	0.909	41.604	0.900	41.500	1.00%	0.25%
			850	0.924	41.398	0.916	41.500	0.87%	-0.25%
11/30/2023	1750 Head	22.4	1700	1.324	40.897	1.343	40.145	-1.41%	1.87%
			1705	1.327	40.895	1.345	40.141	-1.34%	1.88%
			1710	1.330	40.889	1.348	40.136	-1.34%	1.88%
			1720	1.336	40.879	1.354	40.126	-1.33%	1.88%
			1745	1.351	40.826	1.368	40.087	-1.24%	1.84%
			1750	1.355	40.818	1.371	40.079	-1.17%	1.84%
			1770	1.367	40.793	1.383	40.047	-1.16%	1.86%
			1790	1.378	40.769	1.394	40.016	-1.15%	1.88%
12/01/2023	1750 Head	19.3	1700	1.304	38.538	1.343	40.145	-2.90%	-4.00%
			1705	1.309	38.518	1.345	40.141	-2.68%	-4.04%
			1710	1.314	38.500	1.348	40.136	-2.52%	-4.08%
			1720	1.324	38.457	1.354	40.126	-2.22%	-4.16%
			1745	1.350	38.352	1.368	40.087	-1.32%	-4.33%
			1750	1.356	38.328	1.371	40.079	-1.09%	-4.37%
			1770	1.376	38.231	1.383	40.047	-0.51%	-4.53%
			1790	1.395	38.134	1.394	40.016	0.07%	-4.70%
12/04/2023	1750 Head	21.5	1700	1.282	38.734	1.343	40.145	-4.54%	-3.51%
			1705	1.285	38.731	1.345	40.141	-4.46%	-3.51%
			1710	1.288	38.726	1.348	40.136	-4.45%	-3.51%
			1720	1.294	38.713	1.354	40.126	-4.43%	-3.52%
			1745	1.308	38.665	1.368	40.087	-4.39%	-3.55%
			1750	1.310	38.654	1.371	40.079	-4.45%	-3.56%
			1770	1.319	38.620	1.383	40.047	-4.63%	-3.56%
			1790	1.330	38.590	1.394	40.016	-4.59%	-3.56%
12/05/2023	1750 Head	20.4	1700	1.311	38.962	1.343	40.145	-2.38%	-2.95%
			1705	1.316	38.938	1.345	40.141	-2.16%	-3.00%
			1710	1.320	38.917	1.348	40.136	-2.08%	-3.04%
			1720	1.329	38.873	1.354	40.126	-1.85%	-3.12%
			1745	1.354	38.754	1.368	40.087	-1.02%	-3.33%
			1750	1.359	38.730	1.371	40.079	-0.88%	-3.37%
			1770	1.380	38.650	1.383	40.047	-0.22%	-3.49%
			1790	1.399	38.572	1.394	40.016	0.36%	-3.61%
11/29/2023	1900 Head	20.8	1850	1.393	40.798	1.400	40.000	-0.50%	2.00%
			1860	1.403	40.761	1.400	40.000	0.21%	1.90%
			1880	1.424	40.688	1.400	40.000	1.71%	1.72%
			1900	1.445	40.608	1.400	40.000	3.21%	1.52%
			1905	1.451	40.588	1.400	40.000	3.64%	1.47%
			1910	1.456	40.566	1.400	40.000	4.00%	1.42%
			1920	1.467	40.525	1.400	40.000	4.79%	1.31%
12/20/2023	1900 Head	22.5	1850	1.372	38.414	1.400	40.000	-2.00%	-3.97%
			1860	1.382	38.370	1.400	40.000	-1.29%	-4.08%
			1880	1.401	38.291	1.400	40.000	0.07%	-4.27%
			1900	1.422	38.214	1.400	40.000	1.57%	-4.47%
			1905	1.427	38.194	1.400	40.000	1.93%	-4.51%
			1910	1.432	38.177	1.400	40.000	2.29%	-4.56%
			1920	1.442	38.138	1.400	40.000	3.00%	-4.66%
12/26/2023	1900 Head	21.0	1850	1.379	39.758	1.400	40.000	-1.50%	-0.60%
			1860	1.390	39.717	1.400	40.000	-0.71%	-0.71%
			1880	1.411	39.637	1.400	40.000	0.79%	-0.91%
			1900	1.430	39.557	1.400	40.000	2.14%	-1.11%
			1905	1.435	39.535	1.400	40.000	2.50%	-1.16%
			1910	1.440	39.513	1.400	40.000	2.86%	-1.22%
			1920	1.450	39.469	1.400	40.000	3.57%	-1.33%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
11/29/2023	2450 Head	24.8	2300	1.694	38.619	1.670	39.500	1.44%	-2.23%
			2310	1.705	38.578	1.679	39.480	1.55%	-2.28%
			2320	1.717	38.537	1.687	39.460	1.78%	-2.34%
			2400	1.809	38.213	1.756	39.289	3.02%	-2.74%
			2450	1.869	38.018	1.800	39.200	3.83%	-3.02%
			2480	1.903	37.889	1.833	39.162	3.82%	-3.25%
			2500	1.925	37.796	1.855	39.136	3.77%	-3.42%
			2510	1.936	37.751	1.866	39.123	3.75%	-3.51%
			2535	1.965	37.654	1.893	39.092	3.80%	-3.68%
			2550	1.984	37.596	1.909	39.073	3.93%	-3.78%
			2560	1.995	37.554	1.920	39.060	3.91%	-3.86%
			2600	2.041	37.374	1.964	39.009	3.92%	-4.19%
			2650	2.099	37.176	2.018	38.945	4.01%	-4.54%
			2680	2.133	37.049	2.051	38.907	4.00%	-4.78%
			2700	2.156	36.965	2.073	38.882	4.00%	-4.93%
11/30/2023	2450 Head	24.8	2300	1.693	39.008	1.670	39.500	1.38%	-1.25%
			2310	1.705	38.966	1.679	39.480	1.55%	-1.30%
			2320	1.717	38.928	1.687	39.460	1.78%	-1.35%
			2400	1.807	38.602	1.756	39.289	2.90%	-1.75%
			2450	1.866	38.397	1.800	39.200	3.67%	-2.05%
			2480	1.900	38.278	1.833	39.162	3.66%	-2.26%
			2500	1.922	38.197	1.855	39.136	3.61%	-2.40%
			2510	1.934	38.161	1.866	39.123	3.64%	-2.46%
			2535	1.962	38.061	1.893	39.092	3.65%	-2.64%
			2550	1.980	37.999	1.909	39.073	3.72%	-2.75%
			2560	1.992	37.956	1.920	39.060	3.75%	-2.83%
			2600	2.038	37.778	1.964	39.009	3.77%	-3.16%
			2650	2.095	37.598	2.018	38.945	3.82%	-3.46%
			2680	2.128	37.467	2.051	38.907	3.75%	-3.70%
			2700	2.152	37.380	2.073	38.882	3.81%	-3.86%
12/04/2023	2450 Head	24.5	2300	1.684	38.934	1.670	39.500	0.84%	-1.43%
			2310	1.695	38.888	1.679	39.480	0.95%	-1.50%
			2320	1.706	38.840	1.687	39.460	1.13%	-1.57%
			2400	1.799	38.542	1.756	39.289	2.45%	-1.90%
			2450	1.857	38.299	1.800	39.200	3.17%	-2.30%
			2480	1.895	38.209	1.833	39.162	3.38%	-2.43%
			2500	1.915	38.149	1.855	39.136	3.23%	-2.52%
			2510	1.925	38.109	1.866	39.123	3.16%	-2.59%
			2535	1.953	37.989	1.893	39.092	3.17%	-2.82%
			2550	1.973	37.912	1.909	39.073	3.35%	-2.97%
			2560	1.987	37.867	1.920	39.060	3.49%	-3.05%
			2600	2.036	37.744	1.964	39.009	3.67%	-3.24%
			2650	2.091	37.518	2.018	38.945	3.62%	-3.66%
			2680	2.130	37.373	2.051	38.907	3.85%	-3.94%
			2700	2.154	37.309	2.073	38.882	3.91%	-4.05%
12/05/2023	2450 Head	20.4	2300	1.656	41.174	1.670	39.500	-0.84%	4.24%
			2310	1.664	41.158	1.679	39.480	-0.89%	4.25%
			2320	1.671	41.146	1.687	39.460	-0.95%	4.27%
			2400	1.732	41.007	1.756	39.289	-1.37%	4.37%
			2450	1.771	40.936	1.800	39.200	-1.61%	4.43%
			2480	1.794	40.884	1.833	39.162	-2.13%	4.40%
			2500	1.811	40.843	1.855	39.136	-2.37%	4.36%
			2510	1.819	40.832	1.866	39.123	-2.52%	4.37%
			2535	1.839	40.793	1.893	39.092	-2.85%	4.35%
			2550	1.853	40.769	1.909	39.073	-2.93%	4.34%
			2560	1.861	40.753	1.920	39.060	-3.07%	4.33%
			2600	1.895	40.684	1.964	39.009	-3.51%	4.29%
			2650	1.934	40.598	2.018	38.945	-4.16%	4.24%
			2680	1.961	40.535	2.051	38.907	-4.39%	4.18%
			2700	1.979	40.498	2.073	38.882	-4.53%	4.16%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
12/05/2023	2450 Head	19.8	2300	1.672	40.427	1.670	39.500	0.12%	2.35%
			2310	1.681	40.410	1.679	39.480	0.12%	2.36%
			2320	1.689	40.396	1.687	39.460	0.12%	2.37%
			2400	1.751	40.260	1.756	39.289	-0.28%	2.47%
			2450	1.790	40.189	1.800	39.200	-0.56%	2.52%
			2480	1.815	40.132	1.833	39.162	-0.98%	2.48%
			2500	1.831	40.090	1.855	39.136	-1.29%	2.44%
			2510	1.839	40.074	1.866	39.123	-1.45%	2.43%
			2535	1.858	40.030	1.893	39.092	-1.85%	2.40%
			2550	1.873	40.008	1.909	39.073	-1.89%	2.39%
			2560	1.882	39.994	1.920	39.060	-1.98%	2.39%
			2600	1.915	39.926	1.964	39.009	-2.49%	2.35%
			2650	1.954	39.833	2.018	38.945	-3.17%	2.28%
			2680	1.981	39.774	2.051	38.907	-3.41%	2.23%
			2700	1.999	39.735	2.073	38.882	-3.57%	2.19%
12/07/2023	2450 Head	19.3	2300	1.647	40.875	1.670	39.500	-1.38%	3.48%
			2310	1.655	40.858	1.679	39.480	-1.43%	3.49%
			2320	1.664	40.844	1.687	39.460	-1.36%	3.51%
			2400	1.726	40.722	1.756	39.289	-1.71%	3.65%
			2450	1.768	40.652	1.800	39.200	-1.78%	3.70%
			2480	1.791	40.593	1.833	39.162	-2.29%	3.65%
			2500	1.808	40.562	1.855	39.136	-2.53%	3.64%
			2510	1.817	40.547	1.866	39.123	-2.63%	3.64%
			2535	1.838	40.514	1.893	39.092	-2.91%	3.64%
			2550	1.849	40.495	1.909	39.073	-3.14%	3.64%
			2560	1.857	40.482	1.920	39.060	-3.28%	3.64%
			2600	1.892	40.401	1.964	39.009	-3.67%	3.57%
			2650	1.935	40.327	2.018	38.945	-4.11%	3.55%
			2680	1.958	40.270	2.051	38.907	-4.53%	3.50%
			2700	1.978	40.225	2.073	38.882	-4.58%	3.45%
12/09/2023	2450 Head	19.2	2300	1.651	40.173	1.670	39.500	-1.14%	1.70%
			2310	1.658	40.155	1.679	39.480	-1.25%	1.71%
			2320	1.665	40.136	1.687	39.460	-1.30%	1.71%
			2400	1.726	40.049	1.756	39.289	-1.71%	1.93%
			2450	1.763	39.957	1.800	39.200	-2.06%	1.93%
			2480	1.788	39.928	1.833	39.162	-2.45%	1.96%
			2500	1.803	39.906	1.855	39.136	-2.80%	1.97%
			2510	1.811	39.891	1.866	39.123	-2.95%	1.96%
			2535	1.832	39.840	1.893	39.092	-3.22%	1.91%
			2550	1.845	39.811	1.909	39.073	-3.35%	1.89%
			2560	1.855	39.797	1.920	39.060	-3.39%	1.89%
			2600	1.889	39.751	1.964	39.009	-3.82%	1.90%
			2650	1.929	39.648	2.018	38.945	-4.41%	1.81%
			2680	1.956	39.593	2.051	38.907	-4.63%	1.76%
			2700	1.973	39.557	2.073	38.882	-4.82%	1.74%
12/11/2023	2450 Head	19.0	2300	1.645	40.385	1.670	39.500	-1.50%	2.24%
			2310	1.653	40.371	1.679	39.480	-1.55%	2.26%
			2320	1.661	40.357	1.687	39.460	-1.54%	2.27%
			2400	1.725	40.210	1.756	39.289	-1.77%	2.34%
			2450	1.764	40.132	1.800	39.200	-2.00%	2.38%
			2480	1.786	40.073	1.833	39.162	-2.56%	2.33%
			2500	1.803	40.032	1.855	39.136	-2.80%	2.29%
			2510	1.811	40.021	1.866	39.123	-2.95%	2.30%
			2535	1.833	39.980	1.893	39.092	-3.17%	2.27%
			2550	1.845	39.951	1.909	39.073	-3.35%	2.25%
			2560	1.853	39.932	1.920	39.060	-3.49%	2.23%
			2600	1.887	39.864	1.964	39.009	-3.92%	2.19%
			2650	1.929	39.770	2.018	38.945	-4.41%	2.12%
			2680	1.955	39.702	2.051	38.907	-4.68%	2.04%
			2700	1.972	39.663	2.073	38.882	-4.87%	2.01%
02/25/2024	2450 Head	19.1	2300	1.625	40.954	1.670	39.500	-2.69%	3.68%
			2310	1.633	40.944	1.679	39.480	-2.74%	3.71%
			2320	1.641	40.934	1.687	39.460	-2.73%	3.74%
			2400	1.701	40.820	1.756	39.289	-3.13%	3.90%
			2450	1.740	40.763	1.800	39.200	-3.33%	3.99%
			2480	1.762	40.706	1.833	39.162	-3.87%	3.94%
			2500	1.780	40.670	1.855	39.136	-4.04%	3.92%
			2510	1.789	40.660	1.866	39.123	-4.13%	3.93%
			2535	1.810	40.633	1.893	39.092	-4.38%	3.94%
			2550	1.821	40.618	1.909	39.073	-4.61%	3.95%
			2560	1.828	40.601	1.920	39.060	-4.79%	3.95%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
12/04/2023	3600 Head	20.9	3300	2.840	36.605	2.708	38.157	4.87%	-4.07%
			3350	2.881	36.511	2.759	38.100	4.42%	-4.17%
			3450	2.955	36.367	2.861	37.986	3.29%	-4.26%
			3500	2.994	36.303	2.913	37.929	2.78%	-4.29%
			3550	3.035	36.232	2.964	37.871	2.40%	-4.33%
			3560	3.043	36.211	2.974	37.860	2.32%	-4.36%
			3600	3.076	36.166	3.015	37.814	2.02%	-4.36%
			3650	3.111	36.092	3.066	37.757	1.47%	-4.41%
			3690	3.144	36.031	3.107	37.711	1.19%	-4.45%
			3700	3.153	36.017	3.117	37.700	1.15%	-4.46%
			3750	3.193	35.970	3.169	37.643	0.76%	-4.44%
			3900	3.320	35.763	3.323	37.471	-0.09%	-4.56%
			3930	3.344	35.740	3.353	37.437	-0.27%	-4.53%
			4100	3.495	35.523	3.528	37.243	-0.94%	-4.62%
			4150	3.537	35.456	3.579	37.186	-1.17%	-4.65%
12/29/2023	3600 Head	21.5	3300	2.802	37.040	2.708	38.157	3.47%	-2.93%
			3350	2.831	36.977	2.759	38.100	2.61%	-2.95%
			3450	2.899	36.812	2.861	37.986	1.33%	-3.09%
			3500	2.937	36.706	2.913	37.929	0.82%	-3.22%
			3550	2.971	36.642	2.964	37.871	0.24%	-3.25%
			3560	2.979	36.616	2.974	37.860	0.17%	-3.29%
			3600	3.007	36.552	3.015	37.814	-0.27%	-3.34%
			3650	3.042	36.486	3.066	37.757	-0.78%	-3.37%
			3690	3.075	36.404	3.107	37.711	-1.03%	-3.47%
			3700	3.082	36.389	3.117	37.700	-1.12%	-3.48%
			3750	3.118	36.340	3.169	37.643	-1.61%	-3.46%
			3900	3.239	36.144	3.323	37.471	-2.53%	-3.54%
			3930	3.266	36.108	3.353	37.437	-2.59%	-3.55%
			4100	3.414	35.928	3.528	37.243	-3.23%	-3.53%
			4150	3.457	35.888	3.579	37.186	-3.41%	-3.49%
01/02/2024	3600 Head	20.0	3300	2.753	39.112	2.708	38.157	1.66%	2.50%
			3350	2.788	39.060	2.759	38.100	1.05%	2.52%
			3450	2.868	38.922	2.861	37.986	0.24%	2.46%
			3500	2.905	38.819	2.913	37.929	-0.27%	2.35%
			3550	2.949	38.778	2.964	37.871	-0.51%	2.39%
			3560	2.958	38.752	2.974	37.860	-0.54%	2.36%
			3600	2.989	38.708	3.015	37.814	-0.86%	2.36%
			3650	3.034	38.659	3.066	37.757	-1.04%	2.39%
			3690	3.066	38.581	3.107	37.711	-1.32%	2.31%
			3700	3.077	38.560	3.117	37.700	-1.28%	2.28%
			3750	3.123	38.495	3.169	37.643	-1.45%	2.26%
			3900	3.253	38.295	3.323	37.471	-2.11%	2.20%
			3930	3.281	38.236	3.353	37.437	-2.15%	2.13%
			4100	3.442	38.022	3.528	37.243	-2.44%	2.09%
			4150	3.489	37.947	3.579	37.186	-2.51%	2.05%
01/05/2024	3600 Head	21.1	3300	2.842	36.752	2.708	38.157	4.95%	-3.68%
			3350	2.876	36.693	2.759	38.100	4.24%	-3.69%
			3450	2.949	36.556	2.861	37.986	3.08%	-3.76%
			3500	2.989	36.475	2.913	37.929	2.61%	-3.83%
			3550	3.026	36.422	2.964	37.871	2.09%	-3.83%
			3560	3.034	36.401	2.974	37.860	2.02%	-3.85%
			3600	3.064	36.353	3.015	37.814	1.63%	-3.86%
			3650	3.102	36.296	3.066	37.757	1.17%	-3.87%
			3690	3.136	36.223	3.107	37.711	0.93%	-3.95%
			3700	3.144	36.203	3.117	37.700	0.87%	-3.97%
			3750	3.183	36.154	3.169	37.643	0.44%	-3.96%
			3900	3.307	35.962	3.323	37.471	-0.48%	-4.03%
			3930	3.330	35.926	3.353	37.437	-0.69%	-4.04%
			4100	3.479	35.721	3.528	37.243	-1.39%	-4.09%
			4150	3.518	35.690	3.579	37.186	-1.70%	-4.02%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
12/09/2023	5200-5800 Head	19.0	5180	4.419	35.264	4.635	36.009	-4.66%	-2.07%
			5190	4.432	35.230	4.645	35.998	-4.59%	-2.13%
			5200	4.445	35.203	4.655	35.986	-4.51%	-2.18%
			5210	4.455	35.193	4.666	35.975	-4.52%	-2.17%
			5220	4.463	35.179	4.676	35.963	-4.56%	-2.18%
			5240	4.487	35.138	4.696	35.940	-4.45%	-2.23%
			5250	4.495	35.119	4.706	35.929	-4.48%	-2.25%
			5260	4.506	35.095	4.717	35.917	-4.47%	-2.29%
			5270	4.520	35.068	4.727	35.906	-4.38%	-2.33%
			5280	4.535	35.045	4.737	35.894	-4.26%	-2.37%
			5290	4.548	35.029	4.748	35.883	-4.21%	-2.38%
			5300	4.555	35.008	4.758	35.871	-4.27%	-2.41%
			5310	4.561	34.963	4.768	35.860	-4.34%	-2.50%
			5320	4.572	34.938	4.778	35.849	-4.31%	-2.54%
			5500	4.767	34.601	4.963	35.643	-3.95%	-2.92%
			5510	4.781	34.578	4.973	35.632	-3.86%	-2.96%
			5520	4.793	34.568	4.983	35.620	-3.81%	-2.95%
			5530	4.798	34.563	4.994	35.609	-3.92%	-2.94%
			5540	4.802	34.547	5.004	35.597	-4.04%	-2.95%
			5550	4.817	34.525	5.014	35.586	-3.93%	-2.98%
			5560	4.834	34.502	5.024	35.574	-3.78%	-3.01%
			5580	4.856	34.452	5.045	35.551	-3.75%	-3.09%
			5600	4.880	34.391	5.065	35.529	-3.65%	-3.20%
			5610	4.888	34.381	5.076	35.518	-3.70%	-3.20%
			5620	4.895	34.382	5.086	35.506	-3.76%	-3.17%
			5640	4.919	34.353	5.106	35.483	-3.66%	-3.18%
			5660	4.943	34.301	5.127	35.460	-3.59%	-3.27%
			5670	4.952	34.282	5.137	35.449	-3.60%	-3.29%
			5680	4.965	34.264	5.147	35.437	-3.54%	-3.31%
			5690	4.983	34.239	5.158	35.426	-3.39%	-3.35%
			5700	4.996	34.222	5.168	35.414	-3.33%	-3.37%
			5710	5.007	34.212	5.178	35.403	-3.30%	-3.36%
			5720	5.011	34.205	5.188	35.391	-3.41%	-3.35%
			5745	5.037	34.148	5.214	35.363	-3.39%	-3.44%
			5750	5.042	34.135	5.219	35.357	-3.39%	-3.46%
			5755	5.048	34.123	5.224	35.351	-3.37%	-3.47%
			5765	5.060	34.113	5.234	35.340	-3.32%	-3.47%
			5775	5.068	34.103	5.245	35.329	-3.37%	-3.47%
			5785	5.081	34.081	5.255	35.317	-3.31%	-3.50%
			5795	5.096	34.053	5.265	35.305	-3.21%	-3.55%
			5800	5.104	34.037	5.270	35.300	-3.15%	-3.58%
			5800	5.104	34.037	5.270	35.300	-3.15%	-3.58%
			5805	5.110	34.026	5.275	35.294	-3.13%	-3.59%
			5825	5.132	33.997	5.296	35.271	-3.10%	-3.61%
			5835	5.140	33.977	5.305	35.230	-3.11%	-3.56%
			5845	5.152	33.968	5.315	35.210	-3.07%	-3.53%
			5855	5.163	33.965	5.325	35.197	-3.04%	-3.50%
			5865	5.172	33.962	5.336	35.190	-3.07%	-3.49%
			5865	5.172	33.962	5.336	35.190	-3.07%	-3.49%
			5865	5.172	33.962	5.336	35.190	-3.07%	-3.49%
			5865	5.172	33.962	5.336	35.190	-3.07%	-3.49%
			5875	5.181	33.937	5.347	35.183	-3.10%	-3.54%
			5885	5.190	33.901	5.357	35.177	-3.12%	-3.63%
			5905	5.217	33.859	5.379	35.163	-3.01%	-3.71%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
12/14/2023	5200-5800 Head	19.0	5180	4.423	35.050	4.635	36.009	-4.57%	-2.66%
			5190	4.440	35.034	4.645	35.998	-4.41%	-2.68%
			5200	4.453	35.029	4.655	35.986	-4.34%	-2.66%
			5210	4.461	35.023	4.666	35.975	-4.39%	-2.65%
			5220	4.465	35.007	4.676	35.963	-4.51%	-2.66%
			5240	4.487	34.962	4.696	35.940	-4.45%	-2.72%
			5250	4.497	34.960	4.706	35.929	-4.44%	-2.70%
			5260	4.507	34.936	4.717	35.917	-4.45%	-2.73%
			5270	4.523	34.907	4.727	35.906	-4.32%	-2.78%
			5280	4.538	34.872	4.737	35.894	-4.20%	-2.85%
			5290	4.550	34.853	4.748	35.883	-4.17%	-2.87%
			5300	4.560	34.847	4.758	35.871	-4.16%	-2.85%
			5320	4.586	34.837	4.778	35.849	-4.02%	-2.82%
			5500	4.782	34.494	4.963	35.643	-3.65%	-3.22%
			5510	4.789	34.474	4.973	35.632	-3.70%	-3.25%
			5520	4.795	34.457	4.983	35.620	-3.77%	-3.27%
			5530	4.805	34.449	4.994	35.609	-3.78%	-3.26%
			5540	4.820	34.436	5.004	35.597	-3.68%	-3.26%
			5550	4.830	34.427	5.014	35.586	-3.67%	-3.26%
			5560	4.836	34.413	5.024	35.574	-3.74%	-3.26%
			5580	4.852	34.367	5.045	35.551	-3.83%	-3.33%
			5600	4.887	34.292	5.065	35.529	-3.51%	-3.48%
			5610	4.902	34.282	5.076	35.518	-3.43%	-3.48%
			5620	4.915	34.273	5.086	35.506	-3.36%	-3.47%
			5640	4.938	34.243	5.106	35.483	-3.29%	-3.49%
			5660	4.954	34.217	5.127	35.460	-3.37%	-3.51%
			5670	4.960	34.197	5.137	35.449	-3.45%	-3.53%
			5680	4.968	34.168	5.147	35.437	-3.48%	-3.58%
			5690	4.980	34.134	5.158	35.426	-3.45%	-3.65%
			5700	4.998	34.103	5.168	35.414	-3.29%	-3.70%
			5710	5.014	34.082	5.178	35.403	-3.17%	-3.73%
			5720	5.029	34.076	5.188	35.391	-3.06%	-3.72%
			5745	5.054	34.049	5.214	35.363	-3.07%	-3.72%
			5750	5.061	34.041	5.219	35.357	-3.03%	-3.72%
			5755	5.064	34.033	5.224	35.351	-3.06%	-3.73%
			5765	5.072	34.012	5.234	35.340	-3.10%	-3.76%
			5775	5.076	34.000	5.245	35.329	-3.22%	-3.76%
			5785	5.082	33.977	5.255	35.317	-3.29%	-3.79%
			5795	5.092	33.939	5.265	35.305	-3.29%	-3.87%
			5800	5.099	33.921	5.270	35.300	-3.24%	-3.91%
			5800	5.099	33.921	5.270	35.300	-3.24%	-3.91%
			5805	5.108	33.906	5.275	35.294	-3.17%	-3.93%
			5825	5.138	33.874	5.296	35.271	-2.98%	-3.96%
			5835	5.155	33.866	5.305	35.230	-2.83%	-3.87%
			5845	5.166	33.857	5.315	35.210	-2.80%	-3.84%
			5855	5.174	33.845	5.325	35.197	-2.84%	-3.84%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5875	5.190	33.806	5.347	35.183	-2.94%	-3.91%
			5885	5.201	33.786	5.357	35.177	-2.91%	-3.95%
			5905	5.225	33.722	5.379	35.163	-2.86%	-4.10%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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
12/03/2023	6000 Head	20.9	5935	5.378	35.093	5.411	35.143	-0.61%	-0.14%
			5970	5.410	35.013	5.448	35.120	-0.70%	-0.30%
			5985	5.433	34.973	5.464	35.110	-0.57%	-0.39%
			6000	5.458	34.947	5.480	35.100	-0.40%	-0.44%
			6025	5.491	34.925	5.510	35.070	-0.34%	-0.41%
			6065	5.532	34.848	5.557	35.022	-0.45%	-0.50%
			6075	5.547	34.826	5.569	35.010	-0.40%	-0.53%
			6085	5.562	34.804	5.580	34.998	-0.32%	-0.55%
			6185	5.693	34.618	5.698	34.878	-0.09%	-0.75%
			6275	5.800	34.453	5.805	34.770	-0.09%	-0.91%
			6285	5.815	34.439	5.816	34.758	-0.02%	-0.92%
			6305	5.842	34.419	5.840	34.734	0.03%	-0.91%
			6345	5.880	34.350	5.887	34.686	-0.12%	-0.97%
			6475	6.042	34.127	6.041	34.530	0.02%	-1.17%
			6485	6.054	34.122	6.052	34.518	0.03%	-1.15%
			6500	6.067	34.107	6.070	34.500	-0.05%	-1.14%
			6505	6.071	34.097	6.076	34.494	-0.08%	-1.15%
			6545	6.130	33.967	6.122	34.446	0.13%	-1.39%
			6665	6.290	33.747	6.265	34.302	0.40%	-1.62%
			6675	6.303	33.745	6.273	34.290	0.48%	-1.59%
			6715	6.322	33.730	6.319	34.242	0.05%	-1.50%
			6785	6.429	33.591	6.400	34.158	0.45%	-1.66%
			6825	6.453	33.533	6.447	34.110	0.09%	-1.69%
			6985	6.653	33.275	6.633	33.918	0.30%	-1.90%
			7005	6.654	33.263	6.656	33.894	-0.03%	-1.86%
			7025	6.686	33.186	6.680	33.870	0.09%	-2.02%
			7500	7.282	32.329	7.240	33.300	0.58%	-2.92%
			7980	7.860	31.516	7.816	32.724	0.56%	-3.69%
			8000	7.948	31.365	7.840	32.700	1.38%	-4.08%

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

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

9.2 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 9-2
System Verification Results – 1g

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 (%)
AM14	13	HEAD	01/02/2024	21.2	20.8	1.00	1004	7360	534	0.574	0.578	0.574	-0.69%
AM11	750	HEAD	11/30/2023	21.9	21.1	0.20	1057	7682	1683	1.660	8.510	8.300	-2.47%
AM11	750	HEAD	12/02/2023	21.2	23.3	0.20	1057	7682	1683	1.600	8.510	8.000	-5.99%
AM1	750	HEAD	12/03/2023	21.0	21.2	0.20	1097	3949	1684	1.720	8.270	8.600	3.99%
AM1	750	HEAD	12/06/2023	21.7	21.1	0.20	1097	3949	1684	1.760	8.270	8.800	6.41%
AM1	750	HEAD	12/10/2023	19.7	24.3	0.20	1097	3949	1684	1.750	8.270	8.750	5.80%
AM11	750	HEAD	12/11/2023	21.3	20.9	0.20	1057	7682	1683	1.670	8.510	8.350	-1.88%
AM1	750	HEAD	01/18/2024	23.0	21.9	0.20	1097	3949	1684	1.700	8.270	8.500	2.78%
AM10	835	HEAD	12/02/2023	20.8	19.5	0.20	460	7416	701	1.870	9.720	9.350	-3.81%
AM10	835	HEAD	12/04/2023	21.1	20.8	0.20	460	7416	701	1.820	9.720	9.100	-6.38%
AM10	835	HEAD	12/06/2023	23.6	21.0	0.20	4d040	7416	701	1.860	9.790	9.300	-5.01%
AM10	835	HEAD	12/17/2023	20.3	19.7	0.20	4d040	7416	701	1.850	9.790	9.250	-5.52%
AM4	1750	HEAD	11/30/2023	23.0	22.1	0.10	1040	7639	1403	3.580	36.400	35.800	-1.65%
AM14	1750	HEAD	12/01/2023	20.9	19.5	0.10	1104	7360	534	3.370	35.600	33.700	-5.34%
AM4	1750	HEAD	12/04/2023	23.9	21.7	0.10	1083	7639	1403	3.420	36.500	34.200	-6.30%
AM14	1750	HEAD	12/05/2023	21.6	19.9	0.10	1083	7360	534	3.690	36.500	36.900	1.10%
AM13	1900	HEAD	11/29/2023	20.3	19.0	0.10	5d180	7357	1582	3.850	39.200	38.500	-1.79%
AM13	1900	HEAD	12/20/2023	21.5	20.7	0.10	5d180	7357	1582	3.860	39.200	38.600	-1.53%
AM13	1900	HEAD	12/26/2023	22.6	20.7	0.10	5d180	7357	1582	3.940	39.200	39.400	0.51%
AM7	2300	HEAD	11/30/2023	21.9	23.0	0.10	1038	7532	501	4.710	48.600	47.100	-3.09%
AM7	2300	HEAD	12/05/2023	21.6	20.4	0.10	1038	7532	501	4.720	48.600	47.200	-2.88%
AM8	2450	HEAD	12/05/2023	19.1	19.7	0.10	921	7421	604	5.430	54.200	54.300	0.18%
AM8	2450	HEAD	12/07/2023	19.4	19.5	0.10	921	7421	604	5.190	54.200	51.900	-4.24%
AM8	2450	HEAD	12/09/2023	21.2	19.3	0.10	750	7421	604	5.260	52.600	52.600	0.00%
AM8	2450	HEAD	02/25/2024	20.1	19.3	0.10	921	7421	604	5.160	54.200	51.600	-4.80%
AM12	2600	HEAD	11/29/2023	22.1	23.5	0.10	1042	7546	1402	5.660	55.800	56.600	1.43%
AM12	2600	HEAD	12/04/2023	20.4	23.7	0.10	1042	7546	1402	5.640	55.800	56.400	1.08%
AM7	2600	HEAD	12/11/2023	20.3	19.9	0.10	1042	7532	501	5.530	55.800	55.300	-0.90%
AM3	3500	HEAD	12/04/2023	20.8	20.9	0.10	1126	7782	1646	6.930	67.000	69.300	3.43%
AM3	3500	HEAD	12/29/2023	22.5	21.6	0.10	1126	7782	1646	7.080	67.000	70.800	5.67%
AM6	3700	HEAD	01/02/2024	19.8	19.5	0.10	1002	7638	1408	6.590	67.900	65.900	-2.95%
AM3	3900	HEAD	01/05/2024	22.5	21.0	0.10	1073	7782	1646	6.750	69.700	67.500	-3.16%
AM9	5250	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.740	80.500	74.800	-7.08%
AM9	5600	HEAD	12/09/2023	20.1	19.3	0.05	1123	3746	1237	4.390	83.700	87.800	4.90%
AM9	5750	HEAD	12/09/2023	20.1	19.3	0.05	1123	3746	1237	4.070	80.500	81.400	1.12%
AM9	5800	HEAD	12/09/2023	20.1	19.3	0.05	1123	3746	1237	4.110	80.500	82.200	2.11%
AM2	6500	HEAD	12/03/2023	21.7	21.5	0.03	1020	7420	1333	7.670	296.000	306.800	3.65%

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

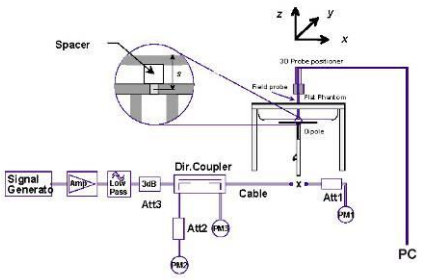


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

9.3 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.

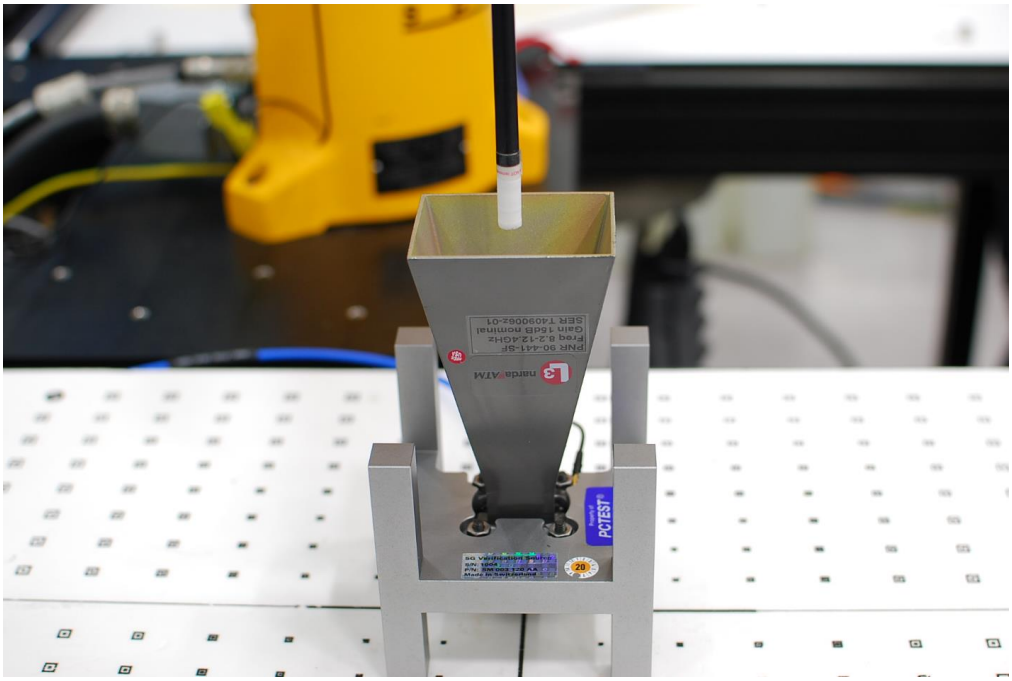


Figure 9-3
System Verification Setup Photo

Table 9-3
10 GHz Verification Results

System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m² over 4 cm²)		Deviation (dB)	Total psPD (W/m² over 4 cm²)		Deviation (dB)
						Measured	Target		Measured	Target	
AM5	10	11/30/2023	1006	9523	93.3	54.50	58.50	-0.31	54.70	58.90	-0.32

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10 SAR DATA SUMMARY

10.1 UMTS 850 Standalone SAR

Table 10-1 Antenna 3b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	3b	FVHC4	1:1	-0.01	826.40	4132	17.00	15.49	Back	0	0.646	0.314	1.416	0.915	0.445		16.4	
Body	UMTS 850	RMC	3b	FVHC4	1:1	-0.02	836.60	4183	17.00	15.50	Back	0	0.664	0.324	1.413	0.938	0.458		16.3	
Body	UMTS 850	RMC	3b	FVHC4	1:1	0.01	846.60	4233	17.00	15.49	Back	0	0.669	0.323	1.416	0.947	0.457		16.2	
Body	UMTS 850	RMC	3b	FVHC4	1:1	0.00	826.40	4132	17.00	15.49	Top	0	0.684	0.303	1.416	0.969	0.429		16.1	
Body	UMTS 850	RMC	3b	FVHC4	1:1	0.00	836.60	4183	17.00	15.50	Top	0	0.700	0.311	1.413	0.989	0.439		16.0	16.0
Body	UMTS 850	RMC	3b	FVHC4	1:1	-0.01	846.60	4233	17.00	15.49	Top	0	0.691	0.303	1.416	0.978	0.429		16.1	
Body	UMTS 850	RMC	3b	FVHC4	1:1	0.04	836.60	4183	17.00	15.50	Bottom	0	0.010	0.004	1.413	0.014	0.006		34.5	
Body	UMTS 850	RMC	3b	FVHC4	1:1	0.00	836.60	4183	17.00	15.50	Right	0	0.080	0.039	1.413	0.113	0.055		25.4	
Body	UMTS 850	RMC	3b	FVHC4	1:1	0.09	836.60	4183	17.00	15.50	Left	0	0.026	0.010	1.413	0.037	0.014		30.3	
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 10-2 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	4	YG6XL	1:1	-0.01	826.40	4132	18.80	18.37	Back	0	0.895	0.410	1.104	0.988	0.453	A1	17.8	
Body	UMTS 850	RMC	4	YG6XL	1:1	0.02	826.40	4132	18.80	18.37	Back	0	0.895	0.415	1.104	0.988	0.458		17.8	
Body	UMTS 850	RMC	4	YG6XL	1:1	-0.04	836.60	4183	18.80	18.36	Back	0	0.827	0.377	1.107	0.915	0.417		19.1	
Body	UMTS 850	RMC	4	YG6XL	1:1	-0.01	846.60	4233	18.80	18.32	Back	0	0.745	0.342	1.117	0.832	0.382		19.5	
Body	UMTS 850	RMC	4	YG6XL	1:1	0.00	826.40	4132	18.80	18.37	Top	0	0.610	0.250	1.104	0.673	0.276		19.5	17.8
Body	UMTS 850	RMC	4	YG6XL	1:1	0.14	826.40	4132	18.80	18.37	Bottom	0	0.007	0.003	1.104	0.008	0.003		38.9	
Body	UMTS 850	RMC	4	YG6XL	1:1	-0.05	826.40	4132	18.80	18.37	Right	0	0.020	0.009	1.104	0.022	0.010		34.3	
Body	UMTS 850	RMC	4	YG6XL	1:1	0.00	826.40	4132	18.80	18.37	Left	0	0.669	0.242	1.104	0.739	0.267		19.1	
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

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	1b	L9TJR	1:1	-0.01	1712.40	1312	12.40	11.29	Back	0	0.712	0.282	1.291	0.919	0.364		11.7	
Body	UMTS 1750	RMC	1b	L9TJR	1:1	-0.02	1732.40	1412	12.40	11.28	Back	0	0.732	0.289	1.294	0.947	0.374		11.6	
Body	UMTS 1750	RMC	1b	L9TJR	1:1	-0.04	1752.60	1513	12.40	11.30	Back	0	0.768	0.299	1.288	0.989	0.385		11.4	
Body	UMTS 1750	RMC	1b	L9TJR	1:1	0.21	1752.60	1513	12.40	11.30	Top	0	0.039	0.018	1.288	0.050	0.023		24.4	11.4
Body	UMTS 1750	RMC	1b	L9TJR	1:1	-0.03	1752.60	1513	12.40	11.30	Bottom	0	0.544	0.200	1.288	0.701	0.258		12.9	
Body	UMTS 1750	RMC	1b	L9TJR	1:1	0.03	1752.60	1513	12.40	11.30	Right	0	0.003	0.000	1.288	0.004	0.000		35.5	
Body	UMTS 1750	RMC	1b	L9TJR	1:1	-0.08	1752.60	1513	12.40	11.30	Left	0	0.041	0.018	1.288	0.053	0.023		24.2	
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 10-4 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.00	1712.40	1312	14.00	13.24	Back	0	0.714	0.284	1.191	0.850	0.338		13.7	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.04	1732.40	1412	14.00	12.97	Back	0	0.742	0.297	1.268	0.941	0.377		13.2	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	-0.03	1752.60	1513	14.00	13.44	Back	0	0.793	0.318	1.138	0.902	0.362		13.4	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.02	1752.60	1513	14.00	13.44	Top	0	0.005	0.002	1.138	0.006	0.002		35.4	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.02	1712.40	1312	14.00	13.24	Bottom	0	0.789	0.315	1.191	0.940	0.375		13.3	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.01	1732.40	1412	14.00	12.97	Bottom	0	0.781	0.308	1.268	0.990	0.391		13.0	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.01	1752.60	1513	14.00	13.44	Bottom	0	0.804	0.311	1.138	0.915	0.354	A2	13.4	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.03	1752.60	1513	14.00	13.44	Right	0	0.000	0.000	1.138	0.000	0.000		52.4	
Body	UMTS 1750	RMC	2b	L9TJR	1:1	0.06	1752.60	1513	14.00	13.44	Left	0	0.007	0.003	1.138	0.008	0.003		34.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-5 Antenna 3a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	3a	L9TJR	1:1	-0.03	1752.60	1513	13.70	12.88	Back	0	0.427	0.195	1.208	0.516	0.236		15.6	
Body	UMTS 1750	RMC	3a	L9TJR	1:1	0.01	1752.60	1513	13.70	12.88	Top	0	0.309	0.096	1.208	0.373	0.116		17.0	
Body	UMTS 1750	RMC	3a	L9TJR	1:1	-0.21	1752.60	1513	13.70	12.88	Bottom	0	0.013	0.005	1.208	0.016	0.006		30.7	
Body	UMTS 1750	RMC	3a	L9TJR	1:1	0.01	1712.40	1312	13.70	12.57	Right	0	0.763	0.309	1.297	0.990	0.401		12.7	12.7
Body	UMTS 1750	RMC	3a	L9TJR	1:1	0.00	1732.40	1412	13.70	12.72	Right	0	0.758	0.305	1.253	0.950	0.382		12.9	
Body	UMTS 1750	RMC	3a	L9TJR	1:1	-0.01	1752.60	1513	13.70	12.88	Right	0	0.757	0.304	1.208	0.914	0.367		13.1	
Body	UMTS 1750	RMC	3a	L9TJR	1:1	0.09	1752.60	1513	13.70	12.88	Left	0	0.002	0.000	1.208	0.002	0.000		38.9	
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 10-6 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	4	L9TJR	1:1	-0.02	1712.40	1312	15.50	14.25	Back	0	0.651	0.272	1.334	0.868	0.363		15.1	
Body	UMTS 1750	RMC	4	L9TJR	1:1	-0.01	1732.40	1412	15.50	14.27	Back	0	0.673	0.284	1.327	0.893	0.377		15.0	
Body	UMTS 1750	RMC	4	L9TJR	1:1	0.03	1752.60	1513	15.50	14.28	Back	0	0.723	0.300	1.324	0.957	0.397		14.7	
Body	UMTS 1750	RMC	4	L9TJR	1:1	-0.03	1712.40	1312	15.50	14.25	Top	0	0.551	0.242	1.334	0.735	0.323		15.8	
Body	UMTS 1750	RMC	4	L9TJR	1:1	0.00	1732.40	1412	15.50	14.27	Top	0	0.590	0.262	1.327	0.783	0.348		15.5	
Body	UMTS 1750	RMC	4	L9TJR	1:1	0.04	1752.60	1513	15.50	14.28	Top	0	0.612	0.267	1.324	0.810	0.354		15.4	14.7
Body	UMTS 1750	RMC	4	L9TJR	1:1	0.08	1752.60	1513	15.50	14.28	Bottom	0	0.000	0.000	1.324	0.000	0.000		53.3	
Body	UMTS 1750	RMC	4	L9TJR	1:1	0.02	1752.60	1513	15.50	14.28	Right	0	0.032	0.013	1.324	0.042	0.017		28.2	
Body	UMTS 1750	RMC	4	L9TJR	1:1	0.13	1712.40	1312	15.50	14.25	Left	0	0.598	0.200	1.334	0.798	0.267		15.5	
Body	UMTS 1750	RMC	4	L9TJR	1:1	-0.02	1732.40	1412	15.50	14.27	Left	0	0.634	0.211	1.327	0.841	0.280		15.2	
Body	UMTS 1750	RMC	4	L9TJR	1:1	-0.02	1752.60	1513	15.50	14.28	Left	0	0.671	0.224	1.324	0.888	0.297		15.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	1b	DV71P	1:1	0.00	1852.40	9262	13.10	11.31	Back	0	0.655	0.250	1.510	0.989	0.378		12.1	
Body	UMTS 1900	RMC	1b	DV71P	1:1	-0.02	1880.00	9400	13.10	11.28	Back	0	0.644	0.247	1.521	0.980	0.376		12.2	
Body	UMTS 1900	RMC	1b	DV71P	1:1	0.01	1907.60	9538	13.10	11.27	Back	0	0.634	0.242	1.524	0.966	0.369		12.2	
Body	UMTS 1900	RMC	1b	DV71P	1:1	0.06	1852.40	9262	13.10	11.31	Top	0	0.005	0.002	1.510	0.008	0.003		33.3	12.1
Body	UMTS 1900	RMC	1b	DV71P	1:1	-0.03	1852.40	9262	13.10	11.31	Bottom	0	0.455	0.164	1.510	0.687	0.248		13.7	
Body	UMTS 1900	RMC	1b	DV71P	1:1	0.12	1852.40	9262	13.10	11.31	Right	0	0.008	0.004	1.510	0.012	0.006		31.3	
Body	UMTS 1900	RMC	1b	DV71P	1:1	0.05	1852.40	9262	13.10	11.31	Left	0	0.043	0.018	1.510	0.065	0.027		24.0	
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 10-8 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	2b	DV71P	1:1	0.01	1852.40	9262	13.90	12.33	Back	0	0.320	0.130	1.435	0.459	0.187		16.3	
Body	UMTS 1900	RMC	2b	DV71P	1:1	0.04	1852.40	9262	13.90	12.33	Top	0	0.000	0.000	1.435	0.000	0.000		51.3	
Body	UMTS 1900	RMC	2b	DV71P	1:1	-0.05	1852.40	9262	13.90	12.33	Bottom	0	0.576	0.212	1.435	0.827	0.304		13.7	
Body	UMTS 1900	RMC	2b	DV71P	1:1	0.00	1880.00	9400	13.90	12.22	Bottom	0	0.622	0.223	1.472	0.916	0.328		13.3	13.2
Body	UMTS 1900	RMC	2b	DV71P	1:1	0.00	1907.60	9538	13.90	12.23	Bottom	0	0.638	0.223	1.469	0.937	0.328		13.2	
Body	UMTS 1900	RMC	2b	DV71P	1:1	0.06	1852.40	9262	13.90	12.33	Right	0	0.042	0.018	1.435	0.060	0.026		25.1	
Body	UMTS 1900	RMC	2b	DV71P	1:1	0.08	1852.40	9262	13.90	12.33	Left	0	0.004	0.002	1.435	0.006	0.003		35.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 10-9 Antenna 3a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	3a	DV71P	1:1	0.01	1852.40	9262	14.60	13.85	Back	0	0.388	0.176	1.189	0.461	0.209		16.9	
Body	UMTS 1900	RMC	3a	DV71P	1:1	0.00	1852.40	9262	14.60	13.85	Top	0	0.339	0.104	1.189	0.403	0.124		17.5	
Body	UMTS 1900	RMC	3a	DV71P	1:1	-0.11	1852.40	9262	14.60	13.85	Bottom	0	0.009	0.003	1.189	0.011	0.004		33.3	
Body	UMTS 1900	RMC	3a	DV71P	1:1	0.01	1852.40	9262	14.60	13.85	Right	0	0.753	0.282	1.189	0.895	0.335		14.1	13.7
Body	UMTS 1900	RMC	3a	DV71P	1:1	0.00	1880.00	9400	14.60	13.63	Right	0	0.715	0.267	1.250	0.894	0.334		14.1	
Body	UMTS 1900	RMC	3a	DV71P	1:1	0.03	1907.60	9538	14.60	13.20	Right	0	0.698	0.262	1.380	0.963	0.362		13.7	
Body	UMTS 1900	RMC	3a	DV71P	1:1	0.09	1852.40	9262	14.60	13.85	Left	0	0.010	0.004	1.189	0.012	0.005		32.8	
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 10-10 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	4	DV71P	1:1	0.03	1852.40	9262	14.00	13.24	Back	0	0.755	0.307	1.191	0.899	0.366	A3	13.4	
Body	UMTS 1900	RMC	4	DV71P	1:1	0.02	1880.00	9400	14.00	13.20	Back	0	0.728	0.292	1.202	0.875	0.351		13.6	
Body	UMTS 1900	RMC	4	DV71P	1:1	0.01	1907.60	9538	14.00	13.25	Back	0	0.687	0.277	1.189	0.817	0.329		13.9	
Body	UMTS 1900	RMC	4	DV71P	1:1	0.02	1907.60	9538	14.00	13.25	Top	0	0.384	0.155	1.189	0.457	0.184		16.4	13.4
Body	UMTS 1900	RMC	4	DV71P	1:1	0.07	1907.60	9538	14.00	13.25	Bottom	0	0.000	0.000	1.189	0.000	0.000		52.2	
Body	UMTS 1900	RMC	4	DV71P	1:1	0.08	1907.60	9538	14.00	13.25	Right	0	0.007	0.002	1.189	0.008	0.002		33.8	
Body	UMTS 1900	RMC	4	DV71P	1:1	-0.03	1907.60	9538	14.00	13.25	Left	0	0.146	0.042	1.189	0.174	0.050		20.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.01	680.50	133297	0.0	18.00	17.18	1	99	Back	0	0.623	0.309	1.208	0.753	0.373		18.2	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	-0.06	680.50	133297	0.0	18.00	16.93	50	25	Back	0	0.747	0.362	1.279	0.955	0.463		17.2	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	-0.01	680.50	133297	0.0	18.00	16.90	100	0	Back	0	0.658	0.327	1.288	0.848	0.421		17.7	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.08	680.50	133297	0.0	18.00	17.18	1	99	Top	0	0.757	0.307	1.208	0.914	0.371		17.4	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.01	680.50	133297	0.0	18.00	16.93	50	25	Top	0	0.773	0.312	1.279	0.989	0.399		17.0	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.03	680.50	133297	0.0	18.00	16.90	100	0	Top	0	0.768	0.312	1.288	0.989	0.402		17.0	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.05	680.50	133297	0.0	18.00	17.18	1	99	Bottom	0	0.003	0.001	1.208	0.004	0.001		41.4	17.0
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.13	680.50	133297	0.0	18.00	16.93	50	25	Bottom	0	0.006	0.002	1.279	0.008	0.003		38.1	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.03	680.50	133297	0.0	18.00	17.18	1	99	Right	0	0.104	0.047	1.208	0.126	0.057		26.0	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.01	680.50	133297	0.0	18.00	16.93	50	25	Right	0	0.117	0.052	1.279	0.150	0.067		25.2	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	-0.19	680.50	133297	0.0	18.00	17.18	1	99	Left	0	0.020	0.009	1.208	0.024	0.011		33.2	
Body	LTE Band 71	20	QPSK	3b	FVHC4	1:1	0.03	680.50	133297	0.0	18.00	16.93	50	25	Left	0	0.022	0.009	1.279	0.028	0.012		32.5	
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 10-12 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	-0.04	680.50	133297	0.0	20.70	20.16	1	0	Back	0	0.734	0.349	1.132	0.831	0.395		20.5	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.02	680.50	133297	0.0	20.70	20.08	50	25	Back	0	0.684	0.327	1.153	0.789	0.377		20.7	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	-0.02	680.50	133297	0.0	20.70	20.07	100	0	Back	0	0.683	0.327	1.156	0.790	0.378		20.7	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.07	680.50	133297	0.0	20.70	20.16	1	0	Top	0	0.655	0.275	1.132	0.741	0.311		21.0	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	-0.01	680.50	133297	0.0	20.70	20.08	50	25	Top	0	0.659	0.270	1.153	0.760	0.311		20.9	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.06	680.50	133297	0.0	20.70	20.16	1	0	Bottom	0	0.014	0.005	1.132	0.016	0.006		37.7	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.08	680.50	133297	0.0	20.70	20.08	50	25	Bottom	0	0.013	0.004	1.153	0.015	0.005		37.9	19.7
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.16	680.50	133297	0.0	20.70	20.16	1	0	Right	0	0.066	0.028	1.132	0.075	0.032		30.9	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	-0.03	680.50	133297	0.0	20.70	20.08	50	25	Right	0	0.050	0.022	1.153	0.058	0.025		32.1	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	-0.05	680.50	133297	0.0	20.70	20.16	1	0	Left	0	0.828	0.285	1.132	0.937	0.323		20.0	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	-0.01	680.50	133297	0.0	20.70	20.08	50	25	Left	0	0.857	0.287	1.153	0.988	0.331	A4	19.7	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.04	680.50	133297	0.0	20.70	20.08	50	25	Left	0	0.781	0.272	1.153	0.900	0.314		20.1	
Body	LTE Band 71	20	QPSK	4	H59RP	1:1	0.01	680.50	133297	0.0	20.70	20.07	100	0	Left	0	0.853	0.285	1.156	0.986	0.329		19.7	
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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	-0.09	707.50	23095	0.0	18.20	16.90	1	49	Back	0	0.627	0.310	1.349	0.846	0.418		17.9	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	-0.01	707.50	23095	0.0	18.20	16.92	25	12	Back	0	0.637	0.312	1.343	0.855	0.419		17.9	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	-0.01	707.50	23095	0.0	18.20	16.87	50	0	Back	0	0.728	0.352	1.358	0.989	0.478	A5	17.2	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	0.04	707.50	23095	0.0	18.20	16.90	1	49	Top	0	0.577	0.269	1.349	0.778	0.363		18.3	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	0.02	707.50	23095	0.0	18.20	16.92	25	12	Top	0	0.587	0.272	1.343	0.788	0.365		18.2	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	0.05	707.50	23095	0.0	18.20	16.90	1	49	Bottom	0	0.005	0.002	1.349	0.007	0.003		38.9	17.2
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	0.01	707.50	23095	0.0	18.20	16.92	25	12	Bottom	0	0.006	0.003	1.343	0.008	0.004		38.1	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	-0.07	707.50	23095	0.0	18.20	16.90	1	49	Right	0	0.108	0.050	1.349	0.146	0.067		25.5	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	-0.10	707.50	23095	0.0	18.20	16.92	25	12	Right	0	0.106	0.051	1.343	0.142	0.068		25.6	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	-0.15	707.50	23095	0.0	18.20	16.90	1	49	Left	0	0.025	0.008	1.349	0.034	0.011		31.9	
Body	LTE Band 12	10	QPSK	3b	FVHC4	1:1	0.13	707.50	23095	0.0	18.20	16.92	25	12	Left	0	0.022	0.007	1.343	0.030	0.009		32.5	
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 10-14 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	0.03	707.50	23095	0.0	20.00	19.10	1	0	Back	0	0.703	0.331	1.230	0.865	0.407		19.6	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	0.04	707.50	23095	0.0	20.00	19.13	25	12	Back	0	0.719	0.336	1.222	0.879	0.411		19.5	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	-0.03	707.50	23095	0.0	20.00	18.84	50	0	Back	0	0.719	0.337	1.306	0.939	0.440		19.3	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	-0.06	707.50	23095	0.0	20.00	19.10	1	0	Top	0	0.459	0.185	1.230	0.565	0.228		21.5	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	-0.02	707.50	23095	0.0	20.00	19.13	25	12	Top	0	0.494	0.194	1.222	0.604	0.237		21.2	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	-0.18	707.50	23095	0.0	20.00	19.10	1	0	Bottom	0	0.013	0.006	1.230	0.016	0.007		36.9	19.3
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	0.02	707.50	23095	0.0	20.00	19.13	25	12	Bottom	0	0.015	0.007	1.222	0.018	0.009		36.3	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	0.04	707.50	23095	0.0	20.00	19.10	1	0	Right	0	0.027	0.011	1.230	0.033	0.014		33.8	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	0.01	707.50	23095	0.0	20.00	19.13	25	12	Right	0	0.040	0.017	1.222	0.049	0.021		32.1	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	-0.05	707.50	23095	0.0	20.00	19.10	1	0	Left	0	0.520	0.185	1.230	0.640	0.228		20.9	
Body	LTE Band 12	10	QPSK	4	2KN7Q	1:1	-0.01	707.50	23095	0.0	20.00	19.13	25	12	Left	0	0.541	0.199	1.222	0.661	0.243		20.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.6 LTE Band 13 Standalone SAR

Table 10-15 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.01	782.00	23230	0.0	17.60	16.09	1	49	Back	0	0.582	0.289	1.416	0.824	0.409		17.4	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.01	782.00	23230	0.0	17.60	16.12	25	0	Back	0	0.592	0.293	1.406	0.832	0.412		17.4	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.01	782.00	23230	0.0	17.60	15.83	50	0	Back	0	0.659	0.321	1.503	0.990	0.482		16.6	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	0.03	782.00	23230	0.0	17.60	16.09	1	49	Top	0	0.637	0.289	1.416	0.902	0.409		17.0	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.02	782.00	23230	0.0	17.60	16.12	25	0	Top	0	0.596	0.280	1.406	0.838	0.394		17.3	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	0.05	782.00	23230	0.0	17.60	15.83	50	0	Top	0	0.657	0.299	1.503	0.987	0.449		16.6	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	0.02	782.00	23230	0.0	17.60	16.09	1	49	Bottom	0	0.006	0.002	1.416	0.008	0.003		37.3	16.6
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.11	782.00	23230	0.0	17.60	16.12	25	0	Bottom	0	0.004	0.001	1.406	0.006	0.001		39.1	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	0.07	782.00	23230	0.0	17.60	16.09	1	49	Right	0	0.084	0.041	1.416	0.119	0.058		25.8	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.03	782.00	23230	0.0	17.60	16.12	25	0	Right	0	0.084	0.041	1.406	0.118	0.058		25.9	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.09	782.00	23230	0.0	17.60	16.09	1	49	Left	0	0.014	0.006	1.416	0.020	0.008		33.6	
Body	LTE Band 13	10	QPSK	3b	W2PYQ	1:1	-0.05	782.00	23230	0.0	17.60	16.12	25	0	Left	0	0.013	0.006	1.406	0.018	0.008		34.0	
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 10-16 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.19	782.00	23230	0.0	20.00	18.92	1	49	Back	0	0.769	1.282	0.986	0.446	A6		19.0	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.04	782.00	23230	0.0	20.00	19.16	25	12	Back	0	0.730	1.213	0.885	0.427			19.5	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.02	782.00	23230	0.0	20.00	18.89	50	0	Back	0	0.746	1.291	0.963	0.458			19.1	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	-0.20	782.00	23230	0.0	20.00	18.92	1	49	Top	0	0.676	1.282	0.867	0.378			19.6	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	-0.01	782.00	23230	0.0	20.00	19.16	25	12	Top	0	0.677	1.213	0.821	0.366			19.8	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	-0.02	782.00	23230	0.0	20.00	18.89	50	0	Top	0	0.669	1.291	0.864	0.385			19.6	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.03	782.00	23230	0.0	20.00	18.92	1	49	Bottom	0	0.017	1.282	0.022	0.008			35.6	19.0
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.05	782.00	23230	0.0	20.00	19.16	25	12	Bottom	0	0.017	1.213	0.021	0.006			35.8	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	-0.11	782.00	23230	0.0	20.00	18.92	1	49	Right	0	0.028	1.282	0.036	0.017			33.4	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.06	782.00	23230	0.0	20.00	19.16	25	12	Right	0	0.031	1.213	0.038	0.018			33.2	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	-0.12	782.00	23230	0.0	20.00	18.92	1	49	Left	0	0.623	1.282	0.799	0.296			20.0	
Body	LTE Band 13	10	QPSK	4	KWQ0D	1:1	0.01	782.00	23230	0.0	20.00	19.16	25	12	Left	0	0.620	1.213	0.752	0.280			20.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	-0.02	793.00	23330	0.0	17.60	15.84	1	25	Back	0	0.579	0.282	1.500	0.869	0.423		17.2	16.8
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.00	793.00	23330	0.0	17.60	16.05	25	12	Back	0	0.568	0.274	1.429	0.812	0.392		17.5	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.01	793.00	23330	0.0	17.60	15.83	50	0	Back	0	0.593	0.285	1.503	0.891	0.428		17.1	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	-0.03	793.00	23330	0.0	17.60	15.84	1	25	Top	0	0.641	0.299	1.500	0.962	0.449		16.8	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	-0.02	793.00	23330	0.0	17.60	16.05	25	12	Top	0	0.623	0.291	1.429	0.890	0.416		17.1	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	-0.03	793.00	23330	0.0	17.60	15.83	50	0	Top	0	0.622	0.290	1.503	0.935	0.436		16.9	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.01	793.00	23330	0.0	17.60	15.84	1	25	Bottom	0	0.015	0.011	1.500	0.023	0.017		33.1	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.14	793.00	23330	0.0	17.60	16.05	25	12	Bottom	0	0.015	0.011	1.429	0.021	0.016		33.3	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.01	793.00	23330	0.0	17.60	15.84	1	25	Right	0	0.022	0.014	1.500	0.033	0.021		31.4	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.04	793.00	23330	0.0	17.60	16.05	25	12	Right	0	0.022	0.015	1.429	0.031	0.021		31.6	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.04	793.00	23330	0.0	17.60	15.84	1	25	Left	0	0.003	0.003	1.500	0.005	0.005		40.0	
Body	LTE Band 14	10	QPSK	3b	RYQC0	1:1	0.03	793.00	23330	0.0	17.60	16.05	25	12	Left	0	0.002	0.002	1.429	0.003	0.003		42.0	
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 10-18 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	-0.02	793.00	23330	0.0	20.00	19.08	1	0	Back	0	0.677	0.334	1.236	0.837	0.413		19.8	19.1
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	-0.01	793.00	23330	0.0	20.00	19.13	25	12	Back	0	0.674	0.333	1.222	0.824	0.407		19.8	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	-0.01	793.00	23330	0.0	20.00	18.81	50	0	Back	0	0.721	0.358	1.315	0.948	0.471		19.2	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	-0.04	793.00	23330	0.0	20.00	19.08	1	0	Top	0	0.694	0.288	1.236	0.858	0.356		19.6	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.02	793.00	23330	0.0	20.00	19.13	25	12	Top	0	0.674	0.274	1.222	0.824	0.335		19.8	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.00	793.00	23330	0.0	20.00	18.81	50	0	Top	0	0.686	0.278	1.315	0.902	0.366		19.4	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	-0.08	793.00	23330	0.0	20.00	19.08	1	0	Bottom	0	0.015	0.008	1.236	0.019	0.010		36.3	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.06	793.00	23330	0.0	20.00	19.13	25	12	Bottom	0	0.020	0.009	1.222	0.024	0.011		35.1	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.09	793.00	23330	0.0	20.00	19.08	1	0	Right	0	0.025	0.012	1.236	0.031	0.015		34.1	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.07	793.00	23330	0.0	20.00	19.13	25	12	Right	0	0.027	0.012	1.222	0.033	0.015		33.8	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.05	793.00	23330	0.0	20.00	19.08	1	0	Left	0	0.725	0.254	1.236	0.896	0.314		19.5	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	-0.02	793.00	23330	0.0	20.00	19.13	25	12	Left	0	0.729	0.262	1.222	0.891	0.320		19.5	
Body	LTE Band 14	10	QPSK	4	H59RP	1:1	0.01	793.00	23330	0.0	20.00	18.81	50	0	Left	0	0.738	0.257	1.315	0.970	0.338	A7	19.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	-0.12	819.00	26740	0.0	17.00	15.62	1	0	Back	0	0.543	0.265	1.374	0.746	0.364		17.3	17.0
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	0.02	819.00	26740	0.0	17.00	15.63	25	0	Back	0	0.542	0.264	1.371	0.743	0.362		17.3	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	0.07	819.00	26740	0.0	17.00	15.62	1	0	Top	0	0.570	0.251	1.374	0.783	0.345		17.0	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	-0.01	819.00	26740	0.0	17.00	15.63	25	0	Top	0	0.563	0.244	1.371	0.772	0.335		17.1	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	0.07	819.00	26740	0.0	17.00	15.62	1	0	Bottom	0	0.008	0.003	1.374	0.011	0.004		35.6	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	0.06	819.00	26740	0.0	17.00	15.63	25	0	Bottom	0	0.008	0.002	1.371	0.011	0.003		35.6	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	0.06	819.00	26740	0.0	17.00	15.62	1	0	Right	0	0.066	0.031	1.374	0.091	0.043		26.4	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	-0.03	819.00	26740	0.0	17.00	15.63	25	0	Right	0	0.064	0.031	1.371	0.088	0.043		26.5	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	0.12	819.00	26740	0.0	17.00	15.62	1	0	Left	0	0.016	0.006	1.374	0.022	0.008		32.6	
Body	LTE Band 26	10	QPSK	3b	H59RP	1:1	-0.10	819.00	26740	0.0	17.00	15.63	25	0	Left	0	0.020	0.007	1.371	0.027	0.010		31.6	
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 10-20 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.15	819.00	26740	0.0	18.80	18.42	1	49	Back	0	0.808	0.364	1.091	0.882	0.397		18.3	17.8
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.12	831.50	26865	0.0	18.80	18.59	1	49	Back	0	0.766	0.338	1.050	0.804	0.355		18.7	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.00	844.00	26990	0.0	18.80	18.45	1	49	Back	0	0.714	0.322	1.084	0.774	0.349		18.9	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.03	819.00	26740	0.0	18.80	18.29	25	12	Back	0	0.879	0.391	1.125	0.989	0.440	A8	17.8	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.02	831.50	26865	0.0	18.80	18.56	25	12	Back	0	0.785	0.350	1.057	0.830	0.370		18.6	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.00	844.00	26990	0.0	18.80	18.36	25	25	Back	0	0.677	0.307	1.107	0.749	0.340		19.0	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.01	831.50	26865	0.0	18.80	18.55	50	0	Back	0	0.832	0.398	1.059	0.881	0.421		18.3	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.04	831.50	26865	0.0	18.80	18.59	1	49	Top	0	0.553	0.227	1.050	0.581	0.238		20.1	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.00	831.50	26865	0.0	18.80	18.56	25	12	Top	0	0.539	0.221	1.057	0.570	0.234		20.2	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.09	831.50	26865	0.0	18.80	18.59	1	49	Bottom	0	0.022	0.010	1.050	0.023	0.011		34.1	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.01	831.50	26865	0.0	18.80	18.56	25	12	Bottom	0	0.031	0.015	1.057	0.033	0.016		32.6	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.05	831.50	26865	0.0	18.80	18.59	1	49	Right	0	0.042	0.019	1.050	0.044	0.020		31.3	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.09	831.50	26865	0.0	18.80	18.56	25	12	Right	0	0.025	0.012	1.057	0.026	0.013		33.6	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	-0.01	831.50	26865	0.0	18.80	18.59	1	49	Left	0	0.662	0.246	1.050	0.695	0.258		19.4	
Body	LTE Band 26	10	QPSK	4	0Q7M0	1:1	0.07	831.50	26865	0.0	18.80	18.56	25	12	Left	0	0.654	0.232	1.057	0.691	0.245		19.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.01	836.50	20525	0.0	17.00	15.69	1	25	Back	0	N/A	0.603	0.294	1.352	0.815	0.397		16.9	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.01	836.50	20525	0.0	17.00	15.68	25	12	Back	0	N/A	0.607	0.296	1.355	0.822	0.401		16.8	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.06	836.50	20525	0.0	17.00	15.43	25	0	Back	0	N/A	0.689	0.337	1.435	0.989	0.484		16.0	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	0.01	836.50	20525	0.0	17.00	15.66	50	0	Back	0	N/A	0.582	0.282	1.361	0.792	0.384		17.0	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	0.06	836.50	20525	0.0	17.00	15.69	1	25	Top	0	N/A	0.591	0.257	1.352	0.799	0.347		17.0	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.03	836.50	20525	0.0	17.00	15.68	25	12	Top	0	N/A	0.591	0.258	1.355	0.801	0.350		16.9	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.02	836.50	20525	0.0	17.00	15.66	50	0	Top	0	N/A	0.560	0.245	1.361	0.762	0.333		17.2	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	0.03	836.50	20525	0.0	17.00	15.69	1	25	Bottom	0	N/A	0.012	0.005	1.352	0.016	0.007		33.9	16.0
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	0.09	836.50	20525	0.0	17.00	15.68	25	12	Bottom	0	N/A	0.010	0.004	1.355	0.014	0.005		34.7	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.19	836.50	20525	0.0	17.00	15.69	1	25	Right	0	N/A	0.083	0.040	1.352	0.112	0.054		25.5	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.06	836.50	20525	0.0	17.00	15.68	25	12	Right	0	N/A	0.084	0.040	1.355	0.114	0.054		25.4	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	0.20	836.50	20525	0.0	17.00	15.69	1	25	Left	0	N/A	0.024	0.010	1.352	0.032	0.014		30.9	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	-0.12	836.50	20525	0.0	17.00	15.68	25	12	Left	0	N/A	0.025	0.010	1.355	0.034	0.014		30.7	
Body	LTE Band 5	10	QPSK	3b	YG6XL	1:1	0.01	836.50	20525	0.0	17.00	15.35	25	0	Back	0	ULCA 5B	0.644	0.313	1.462	0.942	0.458		16.2	
		5						829.30	20453				12	13											
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 10-22 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.04	836.50	20525	0.0	18.80	18.38	1	49	Back	0	N/A	0.770	0.346	1.102	0.849	0.381		18.5	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.00	836.50	20525	0.0	18.80	18.47	25	25	Back	0	N/A	0.775	0.349	1.079	0.836	0.377		18.6	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.01	836.50	20525	0.0	18.80	18.12	50	0	Back	0	N/A	0.791	0.361	1.169	0.925	0.422		18.1	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.01	836.50	20525	0.0	18.80	18.38	1	49	Top	0	N/A	0.613	0.255	1.102	0.676	0.281		19.5	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.00	836.50	20525	0.0	18.80	18.47	25	25	Top	0	N/A	0.582	0.242	1.079	0.628	0.261		19.8	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	-0.16	836.50	20525	0.0	18.80	18.38	1	49	Bottom	0	N/A	0.029	0.014	1.102	0.032	0.015		32.7	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	-0.10	836.50	20525	0.0	18.80	18.47	25	25	Bottom	0	N/A	0.028	0.013	1.079	0.030	0.014		33.0	18.1
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.11	836.50	20525	0.0	18.80	18.38	1	49	Right	0	N/A	0.025	0.011	1.102	0.028	0.012		33.4	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	-0.13	836.50	20525	0.0	18.80	18.47	25	25	Right	0	N/A	0.025	0.012	1.079	0.027	0.013		33.5	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.19	836.50	20525	0.0	18.80	18.38	1	49	Left	0	N/A	0.777	0.273	1.102	0.856	0.301		18.5	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.01	836.50	20525	0.0	18.80	18.47	25	25	Left	0	N/A	0.705	0.260	1.079	0.761	0.281		19.0	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	-0.01	836.50	20525	0.0	18.80	18.12	50	0	Left	0	N/A	0.778	0.269	1.169	0.909	0.314		18.2	
Body	LTE Band 5	10	QPSK	4	YG6XL	1:1	0.01	836.50	20525	0.0	18.80	18.60	50	0	Back	0	ULCA 5B	0.870	0.423	1.047	0.911	0.443	A9	18.2	
		5						829.30	20453				25	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.02	1720.00	132072	0.0	12.40	11.90	1	50	Back	0	0.713	0.280	1.122	0.800	0.314		12.3	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.03	1745.00	132322	0.0	12.40	11.94	1	99	Back	0	0.725	0.281	1.112	0.806	0.312		12.3	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	-0.03	1770.00	132572	0.0	12.40	11.76	1	50	Back	0	0.712	0.275	1.159	0.825	0.319		12.2	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.04	1720.00	132072	0.0	12.40	11.91	50	50	Back	0	0.733	0.288	1.119	0.820	0.322		12.2	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.05	1745.00	132322	0.0	12.40	11.93	50	25	Back	0	0.743	0.291	1.114	0.828	0.324		12.2	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	-0.02	1770.00	132572	0.0	12.40	11.83	50	25	Back	0	0.710	0.274	1.140	0.809	0.312		12.3	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.00	1745.00	132322	0.0	12.40	11.92	100	0	Back	0	0.743	0.288	1.117	0.830	0.322		12.2	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.06	1745.00	132322	0.0	12.40	11.94	1	99	Top	0	0.000	0.000	1.112	0.000	0.000		50.9	12.2
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.01	1745.00	132322	0.0	12.40	11.93	50	25	Top	0	0.000	0.000	1.114	0.000	0.000		50.9	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.01	1745.00	132322	0.0	12.40	11.94	1	99	Bottom	0	0.490	0.181	1.112	0.545	0.201		14.0	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.01	1745.00	132322	0.0	12.40	11.93	50	25	Bottom	0	0.495	0.185	1.114	0.551	0.206		14.0	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	0.04	1745.00	132322	0.0	12.40	11.94	1	99	Right	0	0.002	0.000	1.112	0.002	0.000		37.9	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	-0.12	1745.00	132322	0.0	12.40	11.93	50	25	Right	0	0.003	0.001	1.114	0.003	0.001		36.1	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	-0.17	1745.00	132322	0.0	12.40	11.94	1	99	Left	0	0.039	0.016	1.112	0.043	0.018		25.0	
Body	LTE Band 66	20	QPSK	1b	RYQC0	1:1	-0.15	1745.00	132322	0.0	12.40	11.93	50	25	Left	0	0.043	0.017	1.114	0.048	0.019		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-24 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	0.01	1720.00	132072	0.0	14.00	13.35	1	99	Back	0	0.628	0.248	1.161	0.729	0.288		14.4	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.01	1720.00	132072	0.0	14.00	13.36	50	50	Back	0	0.622	0.245	1.159	0.721	0.284		14.4	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	0.03	1720.00	132072	0.0	14.00	13.35	1	99	Top	0	0.000	0.000	1.161	0.000	0.000		52.3	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	0.07	1720.00	132072	0.0	14.00	13.36	50	50	Top	0	0.004	0.001	1.159	0.005	0.001		36.3	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.01	1720.00	132072	0.0	14.00	13.35	1	99	Bottom	0	0.700	0.280	1.161	0.813	0.325		13.9	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.02	1745.00	132322	0.0	14.00	13.28	1	99	Bottom	0	0.719	0.289	1.180	0.848	0.341		13.7	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.02	1770.00	132572	0.0	14.00	13.02	1	50	Bottom	0	0.735	0.295	1.253	0.921	0.370		13.3	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	0.00	1720.00	132072	0.0	14.00	13.36	50	50	Bottom	0	0.703	0.281	1.159	0.815	0.326		13.9	13.3
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.01	1745.00	132322	0.0	14.00	13.35	50	25	Bottom	0	0.733	0.295	1.161	0.851	0.342		13.7	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.06	1770.00	132572	0.0	14.00	13.29	50	50	Bottom	0	0.744	0.300	1.178	0.876	0.353		13.6	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.02	1745.00	132322	0.0	14.00	13.33	100	0	Bottom	0	0.728	0.292	1.167	0.850	0.341		13.7	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.03	1720.00	132072	0.0	14.00	13.35	1	99	Right	0	0.070	0.032	1.161	0.081	0.037		23.9	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.12	1720.00	132072	0.0	14.00	13.36	50	50	Right	0	0.065	0.030	1.159	0.075	0.035		24.2	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	0.05	1720.00	132072	0.0	14.00	13.35	1	99	Left	0	0.006	0.002	1.161	0.007	0.002		34.5	
Body	LTE Band 66	20	QPSK	2b	L9TJR	1:1	-0.12	1720.00	132072	0.0	14.00	13.36	50	50	Left	0	0.006	0.002	1.159	0.007	0.002		34.6	
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 10-25 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	-0.02	1720.00	132072	0.0	13.70	12.57	1	0	Back	0	0.307	0.136	1.297	0.398	0.176		16.7	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.01	1720.00	132072	0.0	13.70	12.55	50	25	Back	0	0.314	0.140	1.303	0.409	0.182		16.6	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	-0.04	1720.00	132072	0.0	13.70	12.57	1	0	Top	0	0.223	0.071	1.297	0.289	0.092		18.1	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.00	1720.00	132072	0.0	13.70	12.55	50	25	Top	0	0.226	0.072	1.303	0.294	0.094		18.0	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.11	1720.00	132072	0.0	13.70	12.57	1	0	Bottom	0	0.009	0.004	1.297	0.012	0.005		32.0	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.02	1720.00	132072	0.0	13.70	12.55	50	25	Bottom	0	0.007	0.003	1.303	0.009	0.004		33.1	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	-0.06	1720.00	132072	0.0	13.70	12.57	1	0	Right	0	0.742	0.296	1.297	0.962	0.384		12.8	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	-0.03	1745.00	132322	0.0	13.70	12.39	1	0	Right	0	0.719	0.282	1.352	0.972	0.381		12.8	12.7
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	-0.04	1770.00	132572	0.0	13.70	12.18	1	50	Right	0	0.696	0.272	1.419	0.988	0.386		12.7	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	-0.01	1720.00	132072	0.0	13.70	12.55	50	25	Right	0	0.747	0.291	1.303	0.973	0.379		12.8	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.00	1745.00	132322	0.0	13.70	12.40	50	25	Right	0	0.723	0.279	1.349	0.975	0.376		12.8	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.00	1770.00	132572	0.0	13.70	12.47	50	50	Right	0	0.734	0.282	1.327	0.974	0.374		12.8	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.02	1720.00	132072	0.0	13.70	12.54	100	0	Right	0	0.756	0.297	1.306	0.987	0.388	A10	12.7	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.07	1720.00	132072	0.0	13.70	12.57	1	0	Left	0	0.003	0.001	1.297	0.004	0.001		36.8	
Body	LTE Band 66	20	QPSK	3a	H59RP	1:1	0.18	1720.00	132072	0.0	13.70	12.55	50	25	Left	0	0.006	0.003	1.303	0.008	0.004		33.7	
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 10-26 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.01	1720.00	132072	0.0	15.50	14.31	1	50	Back	0	0.624	0.260	1.315	0.821	0.342		15.3	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.03	1745.00	132322	0.0	15.50	14.09	1	0	Back	0	0.620	0.257	1.384	0.858	0.356		15.1	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.08	1770.00	132572	0.0	15.50	14.23	1	0	Back	0	0.628	0.258	1.340	0.842	0.346		15.2	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.00	1720.00	132072	0.0	15.50	14.35	50	0	Back	0	0.629	0.262	1.303	0.820	0.341		15.3	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.00	1745.00	132322	0.0	15.50	14.30	50	0	Back	0	0.646	0.272	1.318	0.851	0.358		15.2	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.04	1770.00	132572	0.0	15.50	14.24	50	25	Back	0	0.682	0.285	1.337	0.912	0.381		14.9	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.00	1720.00	132072	0.0	15.50	14.03	100	0	Back	0	0.705	0.300	1.403	0.989	0.421		14.5	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.01	1720.00	132072	0.0	15.50	14.31	1	50	Top	0	0.538	0.236	1.315	0.707	0.310		16.0	14.5
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.01	1720.00	132072	0.0	15.50	14.35	50	0	Top	0	0.547	0.241	1.303	0.713	0.314		16.0	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.03	1720.00	132072	0.0	15.50	14.31	1	50	Bottom	0	0.000	0.000	1.315	0.000	0.000		53.3	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.05	1720.00	132072	0.0	15.50	14.35	50	0	Bottom	0	0.000	0.000	1.303	0.000	0.000		53.3	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	-0.02	1720.00	132072	0.0	15.50	14.31	1	50	Right	0	0.020	0.008	1.315	0.026	0.011		30.3	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	0.07	1720.00	132072	0.0	15.50	14.35	50	0	Right	0	0.019	0.008	1.303	0.025	0.010		30.5	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	-0.06	1720.00	132072	0.0	15.50	14.31	1	50	Left	0	0.438	0.149	1.315	0.576	0.196		16.9	
Body	LTE Band 66	20	QPSK	4	L9TJR	1:1	-0.05	1720.00	132072	0.0	15.50	14.35	50	0	Left	0	0.464	0.158	1.303	0.605	0.206		16.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.06	1860.00	26140	0.0	13.10	11.46	1	50	Back	0	0.678	0.262	1.459	0.989	0.382		12.1	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.04	1882.50	26365	0.0	13.10	11.64	1	50	Back	0	0.684	0.262	1.400	0.958	0.367		12.3	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.00	1905.00	26590	0.0	13.10	11.46	1	50	Back	0	0.666	0.256	1.459	0.972	0.374		12.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	-0.04	1860.00	26140	0.0	13.10	11.56	50	25	Back	0	0.683	0.267	1.426	0.974	0.381		12.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.00	1882.50	26365	0.0	13.10	11.63	50	25	Back	0	0.701	0.269	1.403	0.984	0.377		12.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.09	1905.00	26590	0.0	13.10	11.48	50	50	Back	0	0.673	0.256	1.452	0.977	0.372		12.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	-0.04	1882.50	26365	0.0	13.10	11.55	100	0	Back	0	0.674	0.257	1.429	0.963	0.367		12.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.01	1882.50	26365	0.0	13.10	11.64	1	50	Top	0	0.001	0.000	1.400	0.001	0.000		40.6	12.1
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.01	1882.50	26365	0.0	13.10	11.63	50	25	Top	0	0.002	0.000	1.403	0.003	0.000		37.6	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	-0.04	1882.50	26365	0.0	13.10	11.64	1	50	Bottom	0	0.454	0.162	1.400	0.636	0.227		14.1	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	-0.01	1882.50	26365	0.0	13.10	11.63	50	25	Bottom	0	0.469	0.166	1.403	0.658	0.233		13.9	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.12	1882.50	26365	0.0	13.10	11.64	1	50	Right	0	0.013	0.005	1.400	0.018	0.007		29.5	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	0.04	1882.50	26365	0.0	13.10	11.63	50	25	Right	0	0.011	0.004	1.403	0.015	0.006		30.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	-0.07	1882.50	26365	0.0	13.10	11.64	1	50	Left	0	0.044	0.018	1.400	0.062	0.025		24.2	
Body	LTE Band 25	20	QPSK	1b	DY14P	1:1	-0.09	1882.50	26365	0.0	13.10	11.63	50	25	Left	0	0.046	0.018	1.403	0.065	0.025		24.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-28 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	-0.04	1905.00	26590	0.0	13.90	13.31	1	50	Back	0	0.386	0.154	1.146	0.442	0.176		16.4	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.04	1905.00	26590	0.0	13.90	13.22	50	25	Back	0	0.392	0.158	1.169	0.458	0.185		16.3	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.01	1905.00	26590	0.0	13.90	13.31	1	50	Top	0	0.000	0.000	1.146	0.000	0.000		52.3	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.06	1905.00	26590	0.0	13.90	13.22	50	25	Top	0	0.000	0.000	1.169	0.000	0.000		52.2	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.00	1860.00	26140	0.0	13.90	13.22	1	50	Bottom	0	0.752	0.280	1.169	0.879	0.327		13.4	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	-0.04	1882.50	26365	0.0	13.90	13.30	1	50	Bottom	0	0.783	0.289	1.148	0.899	0.332		13.3	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	-0.01	1905.00	26590	0.0	13.90	13.31	1	50	Bottom	0	0.823	0.299	1.146	0.943	0.343		13.1	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	-0.01	1860.00	26140	0.0	13.90	13.21	50	0	Bottom	0	0.784	0.291	1.172	0.919	0.341		13.2	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.01	1882.50	26365	0.0	13.90	13.20	50	25	Bottom	0	0.794	0.294	1.175	0.933	0.345		13.2	12.9
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	-0.02	1905.00	26590	0.0	13.90	13.22	50	25	Bottom	0	0.847	0.307	1.169	0.990	0.359	A11	12.9	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.00	1905.00	26590	0.0	13.90	13.22	50	25	Bottom	0	0.845	0.306	1.169	0.988	0.358		12.9	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.02	1882.50	26365	0.0	13.90	13.20	100	0	Bottom	0	0.797	0.294	1.175	0.936	0.345		13.2	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.01	1905.00	26590	0.0	13.90	13.31	1	50	Right	0	0.049	0.022	1.146	0.056	0.025		25.4	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.03	1905.00	26590	0.0	13.90	13.22	50	25	Right	0	0.048	0.020	1.169	0.056	0.023		25.4	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.08	1905.00	26590	0.0	13.90	13.31	1	50	Left	0	0.000	0.000	1.146	0.000	0.000		52.3	
Body	LTE Band 25	20	QPSK	2b	L9TJR	1:1	0.01	1905.00	26590	0.0	13.90	13.22	50	25	Left	0	0.000	0.000	1.169	0.000	0.000		52.2	
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 10-29 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.07	1860.00	26140	0.0	14.60	13.66	1	50	Back	0	0.334	0.147	1.242	0.415	0.183		17.4	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.09	1860.00	26140	0.0	14.60	13.72	50	25	Back	0	0.347	0.151	1.225	0.425	0.185		17.3	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	-0.05	1860.00	26140	0.0	14.60	13.66	1	50	Top	0	0.256	0.081	1.242	0.318	0.101		18.6	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.00	1860.00	26140	0.0	14.60	13.72	50	25	Top	0	0.263	0.083	1.225	0.322	0.102		18.5	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.18	1860.00	26140	0.0	14.60	13.66	1	50	Bottom	0	0.007	0.003	1.242	0.009	0.004		34.2	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.03	1860.00	26140	0.0	14.60	13.72	50	25	Bottom	0	0.008	0.003	1.225	0.010	0.004		33.7	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.02	1860.00	26140	0.0	14.60	13.66	1	50	Right	0	0.642	0.245	1.242	0.797	0.304		14.6	14.4
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.00	1860.00	26140	0.0	14.60	13.72	50	25	Right	0	0.658	0.251	1.225	0.806	0.307		14.5	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.00	1882.50	26365	0.0	14.60	13.65	50	50	Right	0	0.642	0.241	1.245	0.799	0.300		14.6	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	-0.01	1905.00	26590	0.0	14.60	13.70	50	50	Right	0	0.674	0.251	1.230	0.829	0.309		14.4	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	-0.02	1860.00	26140	0.0	14.60	13.65	100	0	Right	0	0.655	0.249	1.245	0.815	0.310		14.5	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.01	1860.00	26140	0.0	14.60	13.66	1	50	Left	0	0.006	0.002	1.242	0.007	0.002		34.9	
Body	LTE Band 25	20	QPSK	3a	6PGJC	1:1	0.01	1860.00	26140	0.0	14.60	13.72	50	25	Left	0	0.007	0.003	1.225	0.009	0.004		34.2	
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 10-30 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.02	1860.00	26140	0.0	14.00	13.13	1	0	Back	0	0.810	0.330	1.222	0.990	0.403		13.0	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.00	1882.50	26365	0.0	14.00	12.89	1	50	Back	0	0.752	0.303	1.291	0.971	0.391		13.1	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	-0.08	1905.00	26590	0.0	14.00	13.00	1	50	Back	0	0.734	0.290	1.259	0.924	0.365		13.3	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	-0.02	1860.00	26140	0.0	14.00	13.22	50	0	Back	0	0.812	0.333	1.197	0.972	0.399		13.1	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.02	1882.50	26365	0.0	14.00	13.11	50	0	Back	0	0.771	0.313	1.227	0.946	0.384		13.2	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	-0.02	1905.00	26590	0.0	14.00	13.02	50	0	Back	0	0.712	0.285	1.253	0.892	0.357		13.5	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.01	1860.00	26140	0.0	14.00	13.12	100	0	Back	0	0.761	0.311	1.225	0.932	0.381		13.3	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.00	1860.00	26140	0.0	14.00	13.13	1	0	Top	0	0.434	0.173	1.222	0.530	0.211		15.7	13.0
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.03	1860.00	26140	0.0	14.00	13.22	50	0	Top	0	0.435	0.186	1.197	0.521	0.223		15.8	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.01	1860.00	26140	0.0	14.00	13.13	1	0	Bottom	0	0.000	0.000	1.222	0.000	0.000		52.1	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.07	1860.00	26140	0.0	14.00	13.22	50	0	Bottom	0	0.000	0.000	1.197	0.000	0.000		52.2	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	0.05	1860.00	26140	0.0	14.00	13.13	1	0	Right	0	0.010	0.004	1.222	0.012	0.005		32.1	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	-0.16	1860.00	26140	0.0	14.00	13.22	50	0	Right	0	0.011	0.005	1.197	0.013	0.006		31.8	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	-0.01	1860.00	26140	0.0	14.00	13.13	1	0	Left	0	0.307	0.085	1.222	0.375	0.104		17.2	
Body	LTE Band 25	20	QPSK	4	6PGJC	1:1	-0.01	1860.00	26140	0.0	14.00	13.22	50	0	Left	0	0.312	0.086	1.197	0.373	0.103		17.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.00	2310.00	27710	0.0	14.30	13.09	1	25	Back	0	0.734	0.264	1.321	0.970	0.349		13.4	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	-0.01	2310.00	27710	0.0	14.30	13.28	25	12	Back	0	0.733	0.264	1.265	0.927	0.334		13.6	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.00	2310.00	27710	0.0	14.30	13.08	50	0	Back	0	0.700	0.247	1.324	0.927	0.327		13.6	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.05	2310.00	27710	0.0	14.30	13.09	1	25	Top	0	0.000	0.000	1.321	0.000	0.000		52.1	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.07	2310.00	27710	0.0	14.30	13.28	25	12	Top	0	0.000	0.000	1.265	0.000	0.000		52.3	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	-0.02	2310.00	27710	0.0	14.30	13.09	1	25	Bottom	0	0.748	0.244	1.321	0.988	0.322	A12	13.3	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	-0.03	2310.00	27710	0.0	14.30	13.28	25	12	Bottom	0	0.732	0.239	1.265	0.926	0.302		13.6	13.3
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	-0.01	2310.00	27710	0.0	14.30	13.08	50	0	Bottom	0	0.720	0.235	1.324	0.953	0.311		13.5	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.01	2310.00	27710	0.0	14.30	13.09	1	25	Right	0	0.000	0.000	1.321	0.000	0.000		52.1	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.06	2310.00	27710	0.0	14.30	13.28	25	12	Right	0	0.000	0.000	1.265	0.000	0.000		52.3	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.02	2310.00	27710	0.0	14.30	13.09	1	25	Left	0	0.005	0.001	1.321	0.007	0.001		35.1	
Body	LTE Band 30	10	QPSK	1b	DY14P	1:1	0.06	2310.00	27710	0.0	14.30	13.28	25	12	Left	0	0.003	0.000	1.265	0.004	0.000		37.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-32 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.10	2310.00	27710	0.0	14.50	13.50	1	0	Back	0	0.624	0.244	1.259	0.786	0.307		14.5	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.01	2310.00	27710	0.0	14.50	13.55	25	0	Back	0	0.618	0.243	1.245	0.769	0.303		14.6	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.01	2310.00	27710	0.0	14.50	13.50	1	0	Top	0	0.000	0.000	1.259	0.000	0.000		52.5	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.01	2310.00	27710	0.0	14.50	13.55	25	0	Top	0	0.000	0.000	1.245	0.000	0.000		52.5	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	-0.01	2310.00	27710	0.0	14.50	13.50	1	0	Bottom	0	0.654	0.221	1.259	0.823	0.278		14.3	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.00	2310.00	27710	0.0	14.50	13.55	25	0	Bottom	0	0.651	0.219	1.245	0.810	0.273		14.4	14.3
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	-0.01	2310.00	27710	0.0	14.50	13.49	50	0	Bottom	0	0.648	0.218	1.262	0.818	0.275		14.4	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.01	2310.00	27710	0.0	14.50	13.50	1	0	Right	0	0.018	0.007	1.259	0.023	0.009		29.9	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.06	2310.00	27710	0.0	14.50	13.55	25	0	Right	0	0.018	0.007	1.245	0.022	0.009		30.0	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.02	2310.00	27710	0.0	14.50	13.50	1	0	Left	0	0.004	0.001	1.259	0.005	0.001		36.5	
Body	LTE Band 30	10	QPSK	2b	DV71P	1:1	0.03	2310.00	27710	0.0	14.50	13.55	25	0	Left	0	0.003	0.000	1.245	0.004	0.000		37.8	
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 10-33 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	-0.01	2310.00	27710	0.0	12.20	10.97	1	25	Back	0	0.307	0.138	1.327	0.407	0.183		15.1	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.02	2310.00	27710	0.0	12.20	11.34	25	12	Back	0	0.307	0.139	1.219	0.374	0.169		15.4	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.03	2310.00	27710	0.0	12.20	10.97	1	25	Top	0	0.216	0.065	1.327	0.287	0.086		16.6	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.02	2310.00	27710	0.0	12.20	11.34	25	12	Top	0	0.218	0.065	1.219	0.266	0.079		16.9	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.08	2310.00	27710	0.0	12.20	10.97	1	25	Bottom	0	0.007	0.002	1.327	0.009	0.003		31.5	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	-0.05	2310.00	27710	0.0	12.20	11.34	25	12	Bottom	0	0.008	0.003	1.219	0.010	0.004		31.3	11.6
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.00	2310.00	27710	0.0	12.20	10.97	1	25	Right	0	0.680	0.243	1.327	0.902	0.322		11.6	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	-0.01	2310.00	27710	0.0	12.20	11.34	25	12	Right	0	0.681	0.243	1.219	0.830	0.296		12.0	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.00	2310.00	27710	0.0	12.20	10.96	50	0	Right	0	0.671	0.240	1.330	0.892	0.319		11.7	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.01	2310.00	27710	0.0	12.20	10.97	1	25	Left	0	0.000	0.000	1.327	0.000	0.000		50.0	
Body	LTE Band 30	10	QPSK	3a	KWQ0D	1:1	0.04	2310.00	27710	0.0	12.20	11.34	25	12	Left	0	0.000	0.000	1.219	0.000	0.000		50.3	
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 10-34 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.02	2310.00	27710	0.0	12.60	11.70	1	49	Back	0	0.565	0.195	1.230	0.695	0.240		13.2	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.00	2310.00	27710	0.0	12.60	11.72	25	25	Back	0	0.635	0.256	1.225	0.778	0.314		12.7	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.02	2310.00	27710	0.0	12.60	11.70	1	49	Top	0	0.294	0.089	1.230	0.362	0.109		16.0	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	-0.03	2310.00	27710	0.0	12.60	11.72	25	25	Top	0	0.294	0.089	1.225	0.360	0.109		16.0	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.08	2310.00	27710	0.0	12.60	11.70	1	49	Bottom	0	0.005	0.002	1.230	0.006	0.002		33.7	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	-0.04	2310.00	27710	0.0	12.60	11.72	25	25	Bottom	0	0.004	0.001	1.225	0.005	0.001		34.7	12.7
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.03	2310.00	27710	0.0	12.60	11.70	1	49	Right	0	0.002	0.000	1.230	0.002	0.000		37.7	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.08	2310.00	27710	0.0	12.60	11.72	25	25	Right	0	0.000	0.000	1.225	0.000	0.000		50.7	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.02	2310.00	27710	0.0	12.60	11.70	1	49	Left	0	0.513	0.168	1.230	0.631	0.207		13.6	
Body	LTE Band 30	10	QPSK	4	DV71P	1:1	0.06	2310.00	27710	0.0	12.60	11.72	25	25	Left	0	0.529	0.172	1.225	0.648	0.211		13.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	-0.05	2510.00	20850	0.0	13.50	12.62	1	0	Back	0	N/A	0.688	0.231	1.225	0.843	0.283		13.2	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.02	2535.00	21100	0.0	13.50	12.53	1	50	Back	0	N/A	0.677	0.226	1.250	0.846	0.283		13.2	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.07	2560.00	21350	0.0	13.50	12.50	1	50	Back	0	N/A	0.690	0.229	1.259	0.869	0.288		13.1	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.01	2510.00	20850	0.0	13.50	12.66	50	0	Back	0	N/A	0.710	0.238	1.213	0.861	0.289		13.1	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.02	2535.00	21100	0.0	13.50	12.60	50	25	Back	0	N/A	0.680	0.228	1.230	0.836	0.280		13.3	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.00	2560.00	21350	0.0	13.50	12.61	50	25	Back	0	N/A	0.694	0.230	1.227	0.852	0.282		13.2	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.04	2560.00	21350	0.0	13.50	12.58	100	0	Back	0	N/A	0.706	0.233	1.236	0.873	0.288		13.1	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.02	2510.00	20850	0.0	13.50	12.62	1	0	Top	0	N/A	0.000	0.000	1.225	0.000	0.000		51.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.01	2510.00	20850	0.0	13.50	12.66	50	0	Top	0	N/A	0.000	0.000	1.213	0.000	0.000		51.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	-0.05	2510.00	20850	0.0	13.50	12.62	1	0	Bottom	0	N/A	0.744	0.229	1.225	0.911	0.281		12.9	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.04	2535.00	21100	0.0	13.50	12.53	1	50	Bottom	0	N/A	0.752	0.231	1.250	0.940	0.289		12.7	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.02	2560.00	21350	0.0	13.50	12.48	1	0	Bottom	0	N/A	0.725	0.227	1.265	0.917	0.287		12.9	12.5
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.05	2560.00	21350	0.0	13.50	12.50	1	50	Bottom	0	N/A	0.786	0.244	1.259	0.990	0.307		12.5	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.02	2510.00	20850	0.0	13.50	12.66	50	0	Bottom	0	N/A	0.785	0.249	1.213	0.952	0.302		12.7	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.00	2535.00	21100	0.0	13.50	12.60	50	25	Bottom	0	N/A	0.790	0.248	1.230	0.972	0.305	A13	12.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.03	2560.00	21350	0.0	13.50	12.61	50	25	Bottom	0	N/A	0.788	0.247	1.227	0.967	0.303		12.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.01	2560.00	21350	0.0	13.50	12.58	100	0	Bottom	0	N/A	0.787	0.247	1.236	0.973	0.305		12.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	-0.14	2510.00	20850	0.0	13.50	12.62	1	0	Right	0	N/A	0.006	0.002	1.225	0.007	0.002		33.8	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.03	2510.00	20850	0.0	13.50	12.66	50	0	Right	0	N/A	0.007	0.002	1.213	0.008	0.002		33.2	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.03	2510.00	20850	0.0	13.50	12.62	1	0	Left	0	N/A	0.020	0.007	1.225	0.025	0.009		28.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	-0.01	2510.00	20850	0.0	13.50	12.66	50	0	Left	0	N/A	0.020	0.008	1.213	0.024	0.010		28.6	
Body	LTE Band 7	20	QPSK	1b	DY14P	1:1	0.00	2560.00	21350	0.0	13.50	12.47	1	0	Bottom	0	ULCA 7C	0.724	0.227	1.268	0.918	0.288		12.9	
		20						2540.20	21152				1	99											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-36 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	-0.04	2510.00	20850	0.0	14.50	13.53	1	50	Back	0	N/A	0.719	0.299	1.250	0.899	0.374		13.9	13.5
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.05	2535.00	21100	0.0	14.50	13.58	1	50	Back	0	N/A	0.782	0.327	1.236	0.967	0.404		13.6	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.01	2535.00	21100	0.0	14.50	13.48	1	99	Back	0	N/A	0.752	0.293	1.265	0.951	0.371		13.7	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.03	2560.00	21350	0.0	14.50	13.57	1	50	Back	0	N/A	0.777	0.322	1.239	0.963	0.399		13.6	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	-0.03	2510.00	20850	0.0	14.50	13.56	50	0	Back	0	N/A	0.706	0.294	1.242	0.877	0.365		14.1	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.04	2535.00	21100	0.0	14.50	13.64	50	25	Back	0	N/A	0.778	0.324	1.219	0.948	0.395		13.7	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.00	2560.00	21350	0.0	14.50	13.60	50	0	Back	0	N/A	0.775	0.322	1.230	0.953	0.396		13.7	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	-0.02	2510.00	20850	0.0	14.50	13.55	100	0	Back	0	N/A	0.758	0.315	1.245	0.944	0.392		13.7	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.01	2535.00	21100	0.0	14.50	13.58	1	50	Top	0	N/A	0.004	0.001	1.236	0.005	0.001		36.5	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.03	2535.00	21100	0.0	14.50	13.64	50	25	Top	0	N/A	0.006	0.002	1.219	0.007	0.002		34.8	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	-0.02	2535.00	21100	0.0	14.50	13.58	1	50	Bottom	0	N/A	0.503	0.170	1.236	0.622	0.210		15.5	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	-0.05	2535.00	21100	0.0	14.50	13.64	50	25	Bottom	0	N/A	0.606	0.199	1.219	0.739	0.243		14.8	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.02	2535.00	21100	0.0	14.50	13.58	1	50	Right	0	N/A	0.029	0.012	1.236	0.036	0.015		27.9	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.04	2535.00	21100	0.0	14.50	13.64	50	25	Right	0	N/A	0.030	0.011	1.219	0.037	0.013		27.8	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.07	2535.00	21100	0.0	14.50	13.58	1	50	Left	0	N/A	0.018	0.008	1.236	0.022	0.010		30.0	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	-0.18	2535.00	21100	0.0	14.50	13.64	50	25	Left	0	N/A	0.016	0.007	1.219	0.020	0.009		30.6	
Body	LTE Band 7	20	QPSK	2b	H59RP	1:1	0.01	2535.00	21100	0.0	14.50	13.30	1	99	Back	0	ULCA 7C	0.750	0.292	1.318	0.989	0.385		13.5	
		20						2554.80	21298				1	0											
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 10-37 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.05	2535.00	21100	0.0	10.80	9.95	1	99	Back	0	N/A	0.351	0.145	1.216	0.427	0.176		13.5	9.8
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.01	2535.00	21100	0.0	10.80	9.79	50	25	Back	0	N/A	0.337	0.138	1.262	0.425	0.174		13.5	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.02	2535.00	21100	0.0	10.80	9.95	1	99	Top	0	N/A	0.244	0.072	1.216	0.297	0.088		15.1	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.02	2535.00	21100	0.0	10.80	9.79	50	25	Top	0	N/A	0.235	0.069	1.262	0.297	0.087		15.1	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.01	2535.00	21100	0.0	10.80	9.95	1	99	Bottom	0	N/A	0.013	0.005	1.216	0.016	0.006		27.8	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.07	2535.00	21100	0.0	10.80	9.79	50	25	Bottom	0	N/A	0.018	0.006	1.262	0.023	0.008		26.2	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.01	2510.00	20850	0.0	10.80	9.75	1	99	Right	0	N/A	0.690	0.228	1.274	0.879	0.290		10.3	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.04	2535.00	21100	0.0	10.80	9.95	1	99	Right	0	N/A	0.558	0.187	1.216	0.679	0.227		11.5	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.04	2560.00	21350	0.0	10.80	9.60	1	99	Right	0	N/A	0.556	0.185	1.318	0.733	0.244		11.1	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.04	2510.00	20850	0.0	10.80	9.73	50	25	Right	0	N/A	0.667	0.226	1.279	0.853	0.289		10.5	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.00	2535.00	21100	0.0	10.80	9.79	50	25	Right	0	N/A	0.579	0.194	1.262	0.731	0.245		11.1	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.00	2560.00	21350	0.0	10.80	9.73	50	50	Right	0	N/A	0.560	0.185	1.279	0.716	0.237		11.2	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.05	2510.00	20850	0.0	10.80	9.47	100	0	Right	0	N/A	0.697	0.234	1.358	0.947	0.318		10.0	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	-0.02	2535.00	21100	0.0	10.80	9.95	1	99	Left	0	N/A	0.003	0.000	1.216	0.004	0.000		34.2	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.05	2535.00	21100	0.0	10.80	9.79	50	25	Left	0	N/A	0.002	0.000	1.262	0.003	0.000		35.8	
Body	LTE Band 7	20	QPSK	3a	FVHC4	1:1	0.00	2510.00	20850	0.0	10.80	9.60	100	0	Right	0	ULCA 7C	0.749	0.254	1.318	0.987	0.335		9.8	
		20						2529.80	21048				100	0											
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 10-38 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	-0.04	2510.00	20850	0.0	12.80	11.90	1	0	Back	0	N/A	0.737	0.256	1.230	0.907	0.315		12.2	12.1
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.06	2535.00	21100	0.0	12.80	11.98	1	0	Back	0	N/A	0.729	0.254	1.208	0.881	0.307		12.3	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.01	2560.00	21350	0.0	12.80	11.63	1	0	Back	0	N/A	0.708	0.247	1.309	0.927	0.323		12.1	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.01	2510.00	20850	0.0	12.80	11.97	50	0	Back	0	N/A	0.752	0.261	1.211	0.911	0.316		12.2	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.02	2535.00	21100	0.0	12.80	11.99	50	0	Back	0	N/A	0.733	0.256	1.205	0.883	0.308		12.3	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	-0.01	2560.00	21350	0.0	12.80	11.94	50	0	Back	0	N/A	0.706	0.248	1.219	0.861	0.302		12.4	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.01	2535.00	21100	0.0	12.80	11.95	100	0	Back	0	N/A	0.723	0.252	1.216	0.879	0.306		12.3	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.03	2535.00	21100	0.0	12.80	11.98	1	0	Top	0	N/A	0.470	0.169	1.208	0.568	0.204		14.2	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	-0.01	2535.00	21100	0.0	12.80	11.99	50	0	Top	0	N/A	0.480	0.173	1.205	0.578	0.208		14.2	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.08	2535.00	21100	0.0	12.80	11.98	1	0	Bottom	0	N/A	0.006	0.002	1.208	0.007	0.002		33.2	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.05	2535.00	21100	0.0	12.80	11.99	50	0	Bottom	0	N/A	0.004	0.001	1.205	0.005	0.001		35.0	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.01	2535.00	21100	0.0	12.80	11.98	1	0	Right	0	N/A	0.012	0.005	1.208	0.014	0.006		30.2	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.06	2535.00	21100	0.0	12.80	11.99	50	0	Right	0	N/A	0.010	0.004	1.205	0.012	0.005		31.0	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	-0.05	2510.00	20850	0.0	12.80	11.90	1	0	Left	0	N/A	0.656	0.213	1.230	0.807	0.262		12.7	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.01	2535.00	21100	0.0	12.80	11.98	1	0	Left	0	N/A	0.661	0.217	1.208	0.798	0.262		12.8	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.03	2560.00	21350	0.0	12.80	11.63	1	0	Left	0	N/A	0.657	0.212	1.309	0.860	0.278		12.4	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.02	2510.00	20850	0.0	12.80	11.97	50	0	Left	0	N/A	0.680	0.221	1.211	0.823	0.268		12.6	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.05	2535.00	21100	0.0	12.80	11.99	50	0	Left	0	N/A	0.677	0.222	1.205	0.816	0.268		12.7	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	-0.04	2560.00	21350	0.0	12.80	11.94	50	0	Left	0	N/A	0.672	0.217	1.219	0.819	0.265		12.6	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	0.04	2535.00	21100	0.0	12.80	11.95	100	0	Left	0	N/A	0.675	0.221	1.216	0.821	0.269		12.6	
Body	LTE Band 7	20	QPSK	4	FVHC4	1:1	-0.02	2560.00	21350	0.0	12.80	11.65	1	0	Back	0	ULCA 7C	0.684	0.242	1.303	0.891	0.315		12.3	
		20						2540.20	21152				1	99											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.01	2506.00	39750	0.0	15.60	14.55	1	99	Back	0	N/A	0.660	0.221	1.274	0.841	0.282		13.4	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2549.50	40185	0.0	15.60	14.57	1	0	Back	0	N/A	0.664	0.221	1.268	0.842	0.280		13.3	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	-0.01	2593.00	40620	0.0	15.60	14.19	1	99	Back	0	N/A	0.680	0.228	1.384	0.941	0.316		12.9	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	-0.03	2636.50	41055	0.0	15.60	14.35	1	99	Back	0	N/A	0.586	0.191	1.334	0.782	0.255		13.7	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.04	2680.00	41490	0.0	15.60	14.33	1	0	Back	0	N/A	0.573	0.185	1.340	0.768	0.248		13.7	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2506.00	39750	0.0	15.60	14.60	50	50	Back	0	N/A	0.693	0.231	1.259	0.872	0.291		13.2	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.00	2549.50	40185	0.0	15.60	14.61	50	0	Back	0	N/A	0.688	0.229	1.256	0.864	0.288		13.2	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.01	2593.00	40620	0.0	15.60	14.43	50	0	Back	0	N/A	0.661	0.217	1.309	0.865	0.284		13.2	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	-0.03	2636.50	41055	0.0	15.60	14.40	50	0	Back	0	N/A	0.637	0.205	1.318	0.840	0.270		13.4	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	-0.04	2680.00	41490	0.0	15.60	14.41	50	0	Back	0	N/A	0.590	0.190	1.315	0.776	0.250		13.7	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	-0.04	2549.50	40185	0.0	15.60	14.53	100	0	Back	0	N/A	0.706	0.233	1.279	0.903	0.298		13.0	
Body	LTE Band 41	20	QPSK	1b	KWQDD	1:1.58	0.07	2549.50	40185	0.0	15.60	14.57	1	0	Top	0	N/A	0.000	0.000	1.268	0.000	0.000		51.6	
Body	LTE Band 41	20	QPSK	1b	H59RP	1:1.58	-0.19	2549.50	40185	0.0	15.60	14.61	50	0	Top	0	N/A	0.000	0.000	1.256	0.000	0.000		51.6	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.01	2506.00	39750	0.0	15.60	14.55	1	99	Bottom	0	N/A	0.696	0.218	1.274	0.887	0.278		13.1	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.00	2549.50	40185	0.0	15.60	14.57	1	0	Bottom	0	N/A	0.596	0.182	1.268	0.756	0.231		13.8	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.07	2593.00	40620	0.0	15.60	14.19	1	99	Bottom	0	N/A	0.707	0.218	1.384	0.978	0.302		12.7	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:2.31	0.02	2593.00	40620	0.0	17.20	16.16	1	99	Bottom	0	N/A	0.720	0.221	1.271	0.915	0.281		12.9	12.7
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.01	2636.50	41055	0.0	15.60	14.35	1	99	Bottom	0	N/A	0.644	0.197	1.334	0.859	0.263		13.3	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.00	2680.00	41490	0.0	15.60	14.33	1	0	Bottom	0	N/A	0.662	0.201	1.340	0.887	0.269		13.1	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2506.00	39750	0.0	15.60	14.60	50	50	Bottom	0	N/A	0.687	0.213	1.259	0.865	0.268		13.2	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2549.50	40185	0.0	15.60	14.61	50	0	Bottom	0	N/A	0.702	0.218	1.256	0.882	0.274		13.1	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2593.00	40620	0.0	15.60	14.43	50	0	Bottom	0	N/A	0.704	0.216	1.309	0.922	0.283		13.0	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.00	2636.50	41055	0.0	15.60	14.40	50	0	Bottom	0	N/A	0.640	0.196	1.318	0.844	0.258		13.3	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2680.00	41490	0.0	15.60	14.41	50	0	Bottom	0	N/A	0.652	0.197	1.315	0.857	0.259		13.3	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.02	2549.50	40185	0.0	15.60	14.53	100	0	Bottom	0	N/A	0.727	0.225	1.279	0.930	0.288		12.9	
Body	LTE Band 41	20	QPSK	1b	H59RP	1:1.58	0.05	2549.50	40185	0.0	15.60	14.57	1	0	Right	0	N/A	0.002	0.000	1.268	0.003	0.000		38.6	
Body	LTE Band 41	20	QPSK	1b	H59RP	1:1.58	0.07	2549.50	40185	0.0	15.60	14.61	50	0	Right	0	N/A	0.002	0.000	1.256	0.003	0.000		38.6	
Body	LTE Band 41	20	QPSK	1b	H59RP	1:1.58	-0.11	2549.50	40185	0.0	15.60	14.57	1	0	Left	0	N/A	0.015	0.005	1.268	0.019	0.006		29.8	
Body	LTE Band 41	20	QPSK	1b	H59RP	1:1.58	-0.05	2549.50	40185	0.0	15.60	14.61	50	0	Left	0	N/A	0.016	0.005	1.256	0.020	0.006		29.6	
Body	LTE Band 41	20	QPSK	1b	DY14P	1:1.58	0.04	2593.00	40620	0.0	15.60	14.44	1	99	Bottom	0	ULCA 41C	0.756	0.230	1.306	0.987	0.300		12.7	
		20						2612.80	40818				1	0											
Body	LTE Band 41	20	QPSK	1b	DY14P	1:2.31	0.03	2593.00	40620	0.0	17.20	16.37	1	99	Bottom	0	ULCA 41C	0.775	0.234	1.211	0.939	0.283		12.8	
		20						2612.80	40818				1	0											
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: Green entry represents HPUE measurement

Table 10-40 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.02	2506.00	39750	0.0	16.50	15.38	1	0	Back	0	N/A	0.628	0.262	1.294	0.813	0.339		14.4	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.00	2549.50	40185	0.0	16.50	15.45	1	50	Back	0	N/A	0.746	0.310	1.274	0.950	0.395		13.7	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.02	2593.00	40620	0.0	16.50	15.48	1	99	Back	0	N/A	0.583	0.239	1.265	0.737	0.302		14.8	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.02	2636.50	41055	0.0	16.50	15.23	1	99	Back	0	N/A	0.603	0.247	1.340	0.808	0.331		14.4	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.03	2680.00	41490	0.0	16.50	15.23	1	99	Back	0	N/A	0.573	0.237	1.340	0.768	0.318		14.6	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.01	2506.00	39750	0.0	16.50	15.45	50	0	Back	0	N/A	0.662	0.279	1.274	0.843	0.355		14.2	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.00	2549.50	40185	0.0	16.50	15.50	50	25	Back	0	N/A	0.756	0.315	1.259	0.952	0.397		13.7	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.00	2549.50	40185	0.0	16.50	15.47	50	0	Back	0	N/A	0.751	0.312	1.268	0.952	0.396		13.7	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:2.31	-0.01	2549.50	40185	0.0	18.10	17.01	50	0	Back	0	N/A	0.767	0.316	1.285	0.986	0.406		13.5	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:2.31	0.03	2549.50	40185	0.0	18.10	16.94	50	25	Back	0	N/A	0.758	0.299	1.306	0.990	0.390		13.5	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.03	2593.00	40620	0.0	16.50	15.52	50	50	Back	0	N/A	0.699	0.288	1.253	0.876	0.361		14.1	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.02	2636.50	41055	0.0	16.50	15.35	50	25	Back	0	N/A	0.625	0.258	1.303	0.814	0.336		14.4	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.04	2680.00	41490	0.0	16.50	15.23	50	0	Back	0	N/A	0.584	0.241	1.340	0.783	0.323		14.6	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.03	2593.00	40620	0.0	16.50	15.47	100	0	Back	0	N/A	0.717	0.296	1.268	0.909	0.375		13.9	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.07	2593.00	40620	0.0	16.50	15.48	1	99	Top	0	N/A	0.000	0.000	1.265	0.000	0.000		52.5	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.07	2593.00	40620	0.0	16.50	15.52	50	50	Top	0	N/A	0.000	0.000	1.253	0.000	0.000		52.5	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.03	2506.00	39750	0.0	16.50	15.38	1	0	Bottom	0	N/A	0.531	0.173	1.294	0.687	0.224		15.1	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.04	2549.50	40185	0.0	16.50	15.45	1	50	Bottom	0	N/A	0.525	0.170	1.274	0.669	0.217		15.2	13.5
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.07	2593.00	40620	0.0	16.50	15.48	1	99	Bottom	0	N/A	0.477	0.155	1.265	0.603	0.196		15.7	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.05	2636.50	41055	0.0	16.50	15.23	1	99	Bottom	0	N/A	0.440	0.143	1.340	0.590	0.192		15.8	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.02	2680.00	41490	0.0	16.50	15.23	1	99	Bottom	0	N/A	0.395	0.127	1.340	0.529	0.170		16.3	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.01	2506.00	39750	0.0	16.50	15.45	50	0	Bottom	0	N/A	0.536	0.174	1.274	0.683	0.222		15.2	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.01	2549.50	40185	0.0	16.50	15.50	50	25	Bottom	0	N/A	0.540	0.174	1.259	0.680	0.219		15.2	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.00	2593.00	40620	0.0	16.50	15.52	50	50	Bottom	0	N/A	0.496	0.160	1.253	0.621	0.200		15.6	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.01	2636.50	41055	0.0	16.50	15.35	50	25	Bottom	0	N/A	0.456	0.146	1.303	0.594	0.190		15.8	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.01	2680.00	41490	0.0	16.50	15.23	50	0	Bottom	0	N/A	0.403	0.130	1.340	0.540	0.174		16.2	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.01	2593.00	40620	0.0	16.50	15.47	100	0	Bottom	0	N/A	0.514	0.165	1.268	0.652	0.209		15.4	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.05	2593.00	40620	0.0	16.50	15.48	1	99	Right	0	N/A	0.017	0.006	1.265	0.022	0.008		30.2	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.12	2593.00	40620	0.0	16.50	15.52	50	50	Right	0	N/A	0.017	0.006	1.253	0.021	0.008		30.2	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	-0.03	2593.00	40620	0.0	16.50	15.48	1	99	Left	0	N/A	0.019	0.007	1.265	0.024	0.009		29.7	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.06	2593.00	40620	0.0	16.50	15.52	50	50	Left	0	N/A	0.016	0.006	1.253	0.020	0.008		30.5	
Body	LTE Band 41	20	QPSK	2b	DY14P	1:1.58	0.01	2549.50	40185	0.0	16.50	15.41	50	0	Back	0	ULCA 41C	0.733	0.305	1.285	0.942	0.392		13.8	
		20						2529.70	39987				50	50											
Body	LTE Band 41	20	QPSK	2b	DY14P	1:2.31	-0.03	2549.50	40185	0.0	18.10	17.09	50	0	Back	0	ULCA 41C	0.758	0.314	1.262	0.957	0.396		13.6	
		20						2529.70	39987				50	50											
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: Green entry represents HPUE measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-41 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.02	2549.50	40185	0.0	14.50	13.53	1	99	Back	0	N/A	0.445	0.189	1.250	0.556	0.236		14.0	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.05	2549.50	40185	0.0	14.50	13.54	50	0	Back	0	N/A	0.480	0.204	1.247	0.599	0.254		13.7	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.04	2549.50	40185	0.0	14.50	13.53	1	99	Top	0	N/A	0.317	0.097	1.250	0.396	0.121		15.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.04	2549.50	40185	0.0	14.50	13.54	50	0	Top	0	N/A	0.333	0.102	1.247	0.415	0.127		15.3	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.16	2549.50	40185	0.0	14.50	13.53	1	99	Bottom	0	N/A	0.014	0.005	1.250	0.018	0.006		29.1	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.18	2549.50	40185	0.0	14.50	13.54	50	0	Bottom	0	N/A	0.014	0.005	1.247	0.017	0.006		29.1	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.01	2506.00	39750	0.0	14.50	13.52	1	99	Right	0	N/A	0.499	0.180	1.253	0.625	0.226		13.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.01	2549.50	40185	0.0	14.50	13.53	1	99	Right	0	N/A	0.630	0.226	1.250	0.788	0.283		12.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.02	2593.00	40620	0.0	14.50	13.20	1	0	Right	0	N/A	0.626	0.221	1.349	0.844	0.298		12.2	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.02	2636.50	41055	0.0	14.50	13.18	1	99	Right	0	N/A	0.434	0.153	1.355	0.588	0.207		13.8	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.01	2680.00	41490	0.0	14.50	13.06	1	0	Right	0	N/A	0.425	0.146	1.393	0.592	0.203		13.8	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.04	2506.00	39750	0.0	14.50	13.53	50	50	Right	0	N/A	0.510	0.184	1.250	0.638	0.230		13.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.02	2549.50	40185	0.0	14.50	13.54	50	0	Right	0	N/A	0.757	0.275	1.247	0.944	0.343		11.7	11.5
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:2.31	0.04	2549.50	40185	0.0	16.10	14.96	50	0	Right	0	N/A	0.756	0.254	1.300	0.983	0.330		11.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.02	2593.00	40620	0.0	14.50	13.28	50	0	Right	0	N/A	0.627	0.221	1.324	0.830	0.293		12.3	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.08	2636.50	41055	0.0	14.50	13.21	50	50	Right	0	N/A	0.432	0.150	1.346	0.581	0.202		13.9	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.04	2680.00	41490	0.0	14.50	13.16	50	0	Right	0	N/A	0.428	0.147	1.361	0.583	0.200		13.8	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	-0.03	2549.50	40185	0.0	14.50	13.45	100	0	Right	0	N/A	0.452	0.161	1.274	0.576	0.205		13.9	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.01	2549.50	40185	0.0	14.50	13.53	1	99	Left	0	N/A	0.000	0.000	1.250	0.000	0.000		50.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.09	2549.50	40185	0.0	14.50	13.54	50	0	Left	0	N/A	0.000	0.000	1.247	0.000	0.000		50.5	
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:1.58	0.00	2549.50	40185	0.0	14.50	13.34	50	0	Right	0	ULCA 41C	0.746	0.252	1.306	0.974	0.329		11.6	
		20						2529.70	39987				50	50											
Body	LTE Band 41	20	QPSK	3a	FVHC4	1:2.31	0.02	2549.50	40185	0.0	16.10	15.00	50	0	Right	0	ULCA 41C	0.764	0.255	1.288	0.984	0.328		11.5	
		20						2529.70	39987				50	50											
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: Green entry represents HPUE measurement

Table 10-42 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.03	2506.00	39750	0.0	15.40	14.83	1	50	Back	0	N/A	0.644	0.250	1.140	0.734	0.285		13.7	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.02	2549.50	40185	0.0	15.40	14.95	1	50	Back	0	N/A	0.681	0.265	1.109	0.755	0.294		13.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.05	2593.00	40620	0.0	15.40	14.92	1	50	Back	0	N/A	0.694	0.270	1.117	0.775	0.302		13.5	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.05	2636.50	41055	0.0	15.40	14.89	1	99	Back	0	N/A	0.625	0.245	1.125	0.703	0.276		13.9	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.07	2680.00	41490	0.0	15.40	14.72	1	99	Back	0	N/A	0.610	0.238	1.169	0.713	0.278		13.9	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.07	2506.00	39750	0.0	15.40	14.98	50	25	Back	0	N/A	0.891	0.329	1.102	0.982	0.363	A14	12.5	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.01	2549.50	40185	0.0	15.40	15.06	50	0	Back	0	N/A	0.697	0.272	1.081	0.753	0.294		13.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.01	2593.00	40620	0.0	15.40	14.93	50	50	Back	0	N/A	0.779	0.287	1.114	0.868	0.320		13.0	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.00	2636.50	41055	0.0	15.40	14.97	50	25	Back	0	N/A	0.723	0.269	1.104	0.798	0.297		13.4	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.08	2680.00	41490	0.0	15.40	14.97	50	25	Back	0	N/A	0.678	0.251	1.104	0.749	0.277		13.7	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.09	2680.00	41490	0.0	15.40	14.94	100	0	Back	0	N/A	0.657	0.246	1.112	0.731	0.274		13.8	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.00	2549.50	40185	0.0	15.40	14.95	1	50	Top	0	N/A	0.540	0.203	1.109	0.599	0.225		14.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.01	2549.50	40185	0.0	15.40	15.06	50	0	Top	0	N/A	0.554	0.209	1.081	0.599	0.226		14.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.08	2549.50	40185	0.0	15.40	14.95	1	50	Bottom	0	N/A	0.010	0.004	1.109	0.011	0.004		31.9	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.20	2549.50	40185	0.0	15.40	15.06	50	0	Bottom	0	N/A	0.007	0.002	1.081	0.008	0.002		33.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.06	2549.50	40185	0.0	15.40	14.95	1	50	Right	0	N/A	0.006	0.003	1.109	0.007	0.003		34.2	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.04	2549.50	40185	0.0	15.40	15.06	50	0	Right	0	N/A	0.007	0.003	1.081	0.008	0.003		33.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.05	2506.00	39750	0.0	15.40	14.83	1	50	Left	0	N/A	0.767	0.260	1.140	0.874	0.296		13.0	12.4
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.01	2549.50	40185	0.0	15.40	14.95	1	50	Left	0	N/A	0.788	0.268	1.109	0.874	0.297		13.0	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.05	2593.00	40620	0.0	15.40	14.92	1	50	Left	0	N/A	0.795	0.269	1.117	0.888	0.300		12.9	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.02	2636.50	41055	0.0	15.40	14.89	1	99	Left	0	N/A	0.815	0.272	1.125	0.917	0.306		12.8	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.01	2680.00	41490	0.0	15.40	14.72	1	99	Left	0	N/A	0.844	0.282	1.169	0.987	0.330		12.5	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.02	2680.00	41490	0.0	15.40	14.69	1	0	Left	0	N/A	0.808	0.271	1.178	0.952	0.319		12.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:2.31	0.01	2680.00	41490	0.0	17.00	15.74	1	99	Left	0	N/A	0.668	0.227	1.337	0.893	0.303		12.8	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:2.31	0.03	2680.00	41490	0.0	17.00	15.78	1	0	Left	0	N/A	0.650	0.221	1.324	0.861	0.293		13.0	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.01	2506.00	39750	0.0	15.40	14.98	50	25	Left	0	N/A	0.769	0.264	1.102	0.847	0.291		13.1	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.01	2549.50	40185	0.0	15.40	15.06	50	0	Left	0	N/A	0.795	0.271	1.081	0.859	0.293		13.1	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.02	2593.00	40620	0.0	15.40	14.93	50	50	Left	0	N/A	0.783	0.268	1.114	0.872	0.299		13.0	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.02	2636.50	41055	0.0	15.40	14.97	50	25	Left	0	N/A	0.776	0.261	1.104	0.857	0.288		13.1	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	-0.02	2680.00	41490	0.0	15.40	14.97	50	25	Left	0	N/A	0.861	0.288	1.104	0.951	0.318		12.6	
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.00	2680.00	41490	0.0	15.40	14.94	100	0	Left	0	N/A	0.831	0.278	1.112	0.924	0.309		12.7	
		20						2680.00	41490				1	0											
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:1.58	0.00	2660.20	41292	0.0	15.40	14.38	1	99	Left	0	ULCA 41C	0.782	0.265	1.265	0.989	0.335		12.4	
		20						2680.00	41490				1	0											
Body	LTE Band 41	20	QPSK	4	2KN7Q	1:2.31	0.04	2660.20	41292	0.0	17.00	15.80	1	99	Left	0	ULCA 41C	0.685	0.232	1.318	0.903	0.306		12.8	
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: Green entry represents HPUE measurement

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.15	3560.00	55340	0.0	13.30	11.84	1	50	Back	0	N/A	0.615	0.182	1.400	0.861	0.255		10.9	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.03	3603.30	55773	0.0	13.30	11.81	1	50	Back	0	N/A	0.642	0.186	1.409	0.905	0.262		10.7	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.04	3646.70	56207	0.0	13.30	11.92	1	50	Back	0	N/A	0.542	0.155	1.374	0.745	0.213		11.6	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.01	3690.00	56640	0.0	13.30	11.93	1	50	Back	0	N/A	0.520	0.148	1.371	0.713	0.203		11.8	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.16	3560.00	55340	0.0	13.30	11.98	50	50	Back	0	N/A	0.627	0.184	1.355	0.850	0.249		11.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.02	3603.30	55773	0.0	13.30	11.95	50	25	Back	0	N/A	0.623	0.182	1.365	0.850	0.248		11.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.06	3646.70	56207	0.0	13.30	12.02	50	25	Back	0	N/A	0.457	0.140	1.343	0.614	0.188		12.4	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.03	3690.00	56640	0.0	13.30	12.04	50	25	Back	0	N/A	0.536	0.153	1.337	0.717	0.205		11.7	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.02	3690.00	56640	0.0	13.30	11.92	100	0	Back	0	N/A	0.521	0.149	1.374	0.716	0.205		11.7	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.05	3690.00	56640	0.0	13.30	11.93	1	50	Top	0	N/A	0.000	0.000	1.371	0.000	0.000		48.9	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.05	3690.00	56640	0.0	13.30	12.04	50	25	Top	0	N/A	0.000	0.000	1.337	0.000	0.000		49.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.01	3690.00	56640	0.0	13.30	11.93	1	50	Bottom	0	N/A	0.155	0.040	1.371	0.213	0.055		17.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.05	3690.00	56640	0.0	13.30	12.04	50	25	Bottom	0	N/A	0.160	0.042	1.337	0.214	0.056		17.0	10.4
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.06	3690.00	56640	0.0	13.30	11.93	1	50	Right	0	N/A	0.000	0.000	1.371	0.000	0.000		48.9	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.09	3690.00	56640	0.0	13.30	12.04	50	25	Right	0	N/A	0.000	0.000	1.337	0.000	0.000		49.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.01	3560.00	55340	0.0	13.30	11.84	1	50	Left	0	N/A	0.689	0.179	1.400	0.965	0.251		10.5	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.08	3603.30	55773	0.0	13.30	11.81	1	50	Left	0	N/A	0.619	0.158	1.409	0.872	0.223		10.9	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.00	3646.70	56207	0.0	13.30	11.92	1	50	Left	0	N/A	0.555	0.141	1.374	0.763	0.194		11.5	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.09	3690.00	56640	0.0	13.30	11.93	1	50	Left	0	N/A	0.549	0.139	1.371	0.753	0.191		11.5	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.05	3560.00	55340	0.0	13.30	11.98	50	50	Left	0	N/A	0.713	0.184	1.355	0.966	0.249		10.4	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.01	3603.30	55773	0.0	13.30	11.95	50	25	Left	0	N/A	0.623	0.160	1.365	0.850	0.218		11.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.01	3646.70	56207	0.0	13.30	12.02	50	25	Left	0	N/A	0.571	0.145	1.343	0.767	0.195		11.5	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.08	3690.00	56640	0.0	13.30	12.04	50	25	Left	0	N/A	0.549	0.139	1.337	0.734	0.186		11.6	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	-0.03	3690.00	56640	0.0	13.30	11.92	100	0	Left	0	N/A	0.612	0.157	1.374	0.841	0.216		11.0	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.00	3560.00	55340	0.0	13.30	12.81	50	50	Left	0	ULCA 48C	0.882	0.231	1.119	0.987	0.258	A15	10.4	
Body	LTE Band 48	20	QPSK	1a	QQWYH	1:1.58	0.00	3579.80	55538	0.0	13.30	12.81	50	0	Left	0	ULCA 48C	0.882	0.231	1.119	0.987	0.258	A15	10.4	
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 10-44 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.02	3560.00	55340	0.0	11.80	10.85	1	50	Back	0	N/A	0.670	0.209	1.245	0.834	0.260		9.6	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.01	3603.30	55773	0.0	11.80	10.79	1	50	Back	0	N/A	0.646	0.200	1.262	0.815	0.252		9.7	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.03	3646.70	56207	0.0	11.80	10.87	1	50	Back	0	N/A	0.713	0.218	1.239	0.883	0.270		9.3	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.03	3690.00	56640	0.0	11.80	10.98	1	50	Back	0	N/A	0.728	0.223	1.208	0.879	0.269		9.4	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.01	3560.00	55340	0.0	11.80	10.96	50	25	Back	0	N/A	0.677	0.211	1.213	0.821	0.256		9.7	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.04	3603.30	55773	0.0	11.80	10.92	50	25	Back	0	N/A	0.663	0.206	1.225	0.812	0.252		9.7	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.03	3646.70	56207	0.0	11.80	10.97	50	50	Back	0	N/A	0.720	0.221	1.211	0.872	0.268		9.4	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.01	3690.00	56640	0.0	11.80	10.98	50	25	Back	0	N/A	0.717	0.220	1.208	0.866	0.266		9.4	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.02	3690.00	56640	0.0	11.80	10.97	100	0	Back	0	N/A	0.721	0.221	1.211	0.873	0.268		9.4	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.08	3690.00	56640	0.0	11.80	10.98	1	50	Top	0	N/A	0.004	0.000	1.208	0.005	0.000		32.0	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.08	3690.00	56640	0.0	11.80	10.98	50	25	Top	0	N/A	0.006	0.002	1.208	0.007	0.002		30.2	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.02	3690.00	56640	0.0	11.80	10.98	1	50	Bottom	0	N/A	0.235	0.065	1.208	0.284	0.079		14.3	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.18	3690.00	56640	0.0	11.80	10.98	50	25	Bottom	0	N/A	0.229	0.065	1.208	0.277	0.079		14.4	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.06	3560.00	55340	0.0	11.80	10.85	1	50	Right	0	N/A	0.705	0.184	1.245	0.878	0.229		9.4	9.1
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.00	3603.30	55773	0.0	11.80	10.79	1	50	Right	0	N/A	0.661	0.170	1.262	0.834	0.215		9.6	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.03	3646.70	56207	0.0	11.80	10.87	1	50	Right	0	N/A	0.694	0.176	1.239	0.860	0.218		9.5	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.07	3690.00	56640	0.0	11.80	10.98	1	50	Right	0	N/A	0.723	0.181	1.208	0.873	0.219		9.4	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.04	3560.00	55340	0.0	11.80	10.96	50	25	Right	0	N/A	0.730	0.187	1.213	0.885	0.227		9.3	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.00	3603.30	55773	0.0	11.80	10.92	50	25	Right	0	N/A	0.701	0.179	1.225	0.859	0.219		9.5	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.01	3646.70	56207	0.0	11.80	10.97	50	50	Right	0	N/A	0.740	0.187	1.211	0.896	0.226		9.3	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.09	3690.00	56640	0.0	11.80	10.98	50	25	Right	0	N/A	0.743	0.187	1.208	0.898	0.226		9.3	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.03	3690.00	56640	0.0	11.80	10.87	50	0	Right	0	N/A	0.745	0.187	1.239	0.923	0.232		9.1	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	-0.05	3690.00	56640	0.0	11.80	10.97	100	0	Right	0	N/A	0.736	0.187	1.211	0.891	0.226		9.3	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.05	3690.00	56640	0.0	11.80	10.98	1	50	Left	0	N/A	0.002	0.000	1.208	0.002	0.000		35.0	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.03	3690.00	56640	0.0	11.80	10.98	50	25	Left	0	N/A	0.002	0.000	1.208	0.002	0.000		35.0	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.00	3690.00	56640	0.0	11.80	10.96	50	0	Right	0	ULCA 48C	0.763	0.191	1.213	0.926	0.232		9.1	
Body	LTE Band 48	20	QPSK	2a	FVHC4	1:1.58	0.00	3670.20	56442	0.0	11.80	10.96	50	50	Right	0	ULCA 48C	0.763	0.191	1.213	0.926	0.232		9.1	
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 10-45 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.00	3646.70	56207	0.0	14.50	13.49	1	50	Back	0	N/A	0.314	0.099	1.262	0.396	0.125		15.5	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.01	3646.70	56207	0.0	14.50	13.57	50	25	Back	0	N/A	0.480	0.146	1.239	0.595	0.181		13.8	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.11	3560.00	55340	0.0	14.50	13.36	1	99	Top	0	N/A	0.671	0.191	1.300	0.872	0.248		12.1	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.05	3603.30	55773	0.0	14.50	13.44	1	50	Top	0	N/A	0.661	0.187	1.276	0.843	0.239		12.2	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.02	3646.70	56207	0.0	14.50	13.49	1	50	Top	0	N/A	0.659	0.192	1.262	0.832	0.242		12.3	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.03	3690.00	56640	0.0	14.50	13.16	1	50	Top	0	N/A	0.726	0.202	1.361	0.988	0.275		11.5	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.07	3690.00	56640	0.0	14.50	13.25	1	0	Top	0	N/A	0.662	0.193	1.334	0.883	0.257		12.0	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.15	3560.00	55340	0.0	14.50	13.44	50	25	Top	0	N/A	0.697	0.214	1.276	0.889	0.273		12.0	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.08	3603.30	55773	0.0	14.50	13.55	50	50	Top	0	N/A	0.662	0.205	1.245	0.824	0.255		12.3	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.03	3646.70	56207	0.0	14.50	13.57	50	25	Top	0	N/A	0.691	0.211	1.239	0.856	0.261		12.2	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.02	3690.00	56640	0.0	14.50	13.47	50	25	Top	0	N/A	0.675	0.197	1.268	0.856	0.250		12.2	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.03	3646.70	56207	0.0	14.50	13.48	100	0	Top	0	N/A	0.671	0.196	1.265	0.849	0.248		12.2	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.05	3646.70	56207	0.0	14.50	13.49	1	50	Bottom	0	N/A	0.000	0.000	1.262	0.000	0.000		50.5	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.09	3646.70	56207	0.0	14.50	13.57	50	25	Bottom	0	N/A	0.000	0.000	1.239	0.000	0.000		50.6	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.01	3646.70	56207	0.0	14.50	13.49	1	50	Right	0	N/A	0.051	0.016	1.262	0.064	0.020		23.4	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.15	3646.70	56207	0.0	14.50	13.57	50	25	Right	0	N/A	0.054	0.017	1.239	0.067	0.021		23.2	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.02	3646.70	56207	0.0	14.50	13.49	1	50	Left	0	N/A	0.015	0.004	1.262	0.019	0.005		28.7	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	0.03	3646.70	56207	0.0	14.50	13.57	50	25	Left	0	N/A	0.014	0.003	1.239	0.017	0.004		29.1	
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.11	3690.00	56640	0.0	14.50	13.40	1	0	Top	0	ULCA 48C	0.697	0.203	1.288	0.898	0.261		12.0	11.5
Body	LTE Band 48	20	QPSK	3b	YMHXJ	1:1.58	-0.11	3670.20	56442	0.0	14.50	13.40	1	99	Top	0	ULCA 48C	0.697	0.203	1.288	0.898	0.261		12.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 10-46 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.07	3560.00	55340	0.0	14.30	13.27	1	50	Back	0	N/A	0.644	0.189	1.268	0.817	0.240		12.2	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.04	3603.30	55773	0.0	14.30	12.91	1	50	Back	0	N/A	0.717	0.208	1.377	0.987	0.286		11.4	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.03	3603.30	55773	0.0	14.30	12.90	1	99	Back	0	N/A	0.677	0.196	1.380	0.934	0.270		11.6	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.04	3646.70	56207	0.0	14.30	13.30	1	50	Back	0	N/A	0.639	0.182	1.259	0.805	0.229		12.2	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.13	3690.00	56640	0.0	14.30	13.18	1	50	Back	0	N/A	0.417	0.122	1.294	0.540	0.158		14.0	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.02	3560.00	55340	0.0	14.30	13.34	50	25	Back	0	N/A	0.679	0.198	1.247	0.847	0.247		12.0	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.04	3603.30	55773	0.0	14.30	13.28	50	50	Back	0	N/A	0.696	0.203	1.265	0.880	0.257		11.9	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.00	3646.70	56207	0.0	14.30	13.39	50	25	Back	0	N/A	0.629	0.183	1.233	0.776	0.226		12.4	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.02	3690.00	56640	0.0	14.30	13.31	50	50	Back	0	N/A	0.427	0.126	1.256	0.536	0.158		14.0	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.04	3646.70	56207	0.0	14.30	13.29	100	0	Back	0	N/A	0.627	0.183	1.262	0.791	0.231		12.3	11.4
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.08	3646.70	56207	0.0	14.30	13.30	1	50	Top	0	N/A	0.192	0.060	1.259	0.242	0.076		17.5	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.10	3646.70	56207	0.0	14.30	13.39	50	25	Top	0	N/A	0.194	0.061	1.233	0.239	0.075		17.5	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.05	3646.70	56207	0.0	14.30	13.30	1	50	Bottom	0	N/A	0.000	0.000	1.259	0.000	0.000		50.3	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.01	3646.70	56207	0.0	14.30	13.39	50	25	Bottom	0	N/A	0.000	0.000	1.233	0.000	0.000		50.4	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.05	3646.70	56207	0.0	14.30	13.30	1	50	Right	0	N/A	0.000	0.000	1.259	0.000	0.000		50.3	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.17	3646.70	56207	0.0	14.30	13.39	50	25	Right	0	N/A	0.000	0.000	1.233	0.000	0.000		50.4	
Body	LTE Band 48	20	QPSK	4	YMHXL	1:1.58	0.05	3646.70	56207	0.0	14.30	13.30	1	50	Left	0	N/A	0.402	0.108	1.259	0.506	0.136		14.3	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	0.02	3646.70	56207	0.0	14.30	13.39	50	25	Left	0	N/A	0.411	0.108	1.233	0.507	0.133		14.2	
Body	LTE Band 48	20	QPSK	4	QQWYH	1:1.58	-0.01	3603.30	55773	0.0	14.30	13.24	1	99	Back	0	ULCA 48C	0.705	0.205	1.276	0.900	0.262		11.8	
		20						3623.10	55971				1	0											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	18.00	17.01	1	53	Back	0	0.692	0.332	1.256	0.869	0.417		17.6	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	18.00	17.00	50	28	Back	0	0.688	0.330	1.259	0.866	0.415		17.6	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	18.00	16.90	100	0	Back	0	0.683	0.329	1.288	0.880	0.424		17.5	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	18.00	17.01	1	53	Top	0	0.769	0.310	1.256	0.966	0.389	A16	17.1	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	18.00	17.00	50	28	Top	0	0.729	0.299	1.259	0.918	0.376		17.4	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	18.00	16.90	100	0	Top	0	0.736	0.299	1.288	0.948	0.385		17.2	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.00	680.50	136100	CP-OFDM	0.0	18.00	16.85	1	1	Top	0	0.760	0.307	1.303	0.990	0.400		17.0	17.0
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.08	680.50	136100	DFT-s-OFDM	0.0	18.00	17.01	1	53	Bottom	0	0.007	0.003	1.256	0.009	0.004		37.5	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	18.00	17.00	50	28	Bottom	0	0.006	0.002	1.259	0.008	0.003		38.2	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	-0.14	680.50	136100	DFT-s-OFDM	0.0	18.00	17.01	1	53	Right	0	0.111	0.051	1.256	0.139	0.064		25.5	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	18.00	17.00	50	28	Right	0	0.110	0.050	1.259	0.138	0.063		25.6	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.08	680.50	136100	DFT-s-OFDM	0.0	18.00	17.01	1	53	Left	0	0.017	0.007	1.256	0.021	0.009		33.7	
Body	NR Band n71	20	QPSK	3b	2HGJG	1:1	0.14	680.50	136100	DFT-s-OFDM	0.0	18.00	17.00	50	28	Left	0	0.017	0.008	1.259	0.021	0.010		33.7	
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 10-48 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	20.70	20.06	1	1	Back	0	0.497	0.258	1.159	0.576	0.299		22.1	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	20.70	19.97	50	0	Back	0	0.608	0.288	1.183	0.719	0.341		21.1	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	20.70	20.06	1	1	Top	0	0.575	0.254	1.159	0.666	0.294		21.4	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	20.70	19.97	50	0	Top	0	0.567	0.248	1.183	0.671	0.293		21.4	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	20.70	20.06	1	1	Bottom	0	0.029	0.012	1.159	0.034	0.014		34.4	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	20.70	19.97	50	0	Bottom	0	0.016	0.007	1.183	0.019	0.008		36.9	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	20.70	20.06	1	1	Right	0	0.084	0.035	1.159	0.097	0.041		29.8	20.5
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	20.70	19.97	50	0	Right	0	0.079	0.034	1.183	0.093	0.040		30.0	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	20.70	20.06	1	1	Left	0	0.708	0.233	1.159	0.821	0.270		20.5	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	20.70	19.97	50	0	Left	0	0.674	0.227	1.183	0.797	0.269		20.7	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	20.70	19.92	100	0	Left	0	0.629	0.216	1.197	0.753	0.259		20.9	
Body	NR Band n71	20	QPSK	4	H59RP	1:1	0.11	680.50	136100	CP-OFDM	0.0	20.70	20.47	1	1	Left	0	0.679	0.229	1.054	0.716	0.241		21.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.17 NR Band n12 Standalone SAR

Table 10-49 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	1	77	Back	0	0.702	0.345	1.324	0.929	0.457		17.5	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	36	0	Back	0	0.589	0.289	1.324	0.780	0.383		18.3	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	18.20	16.97	75	0	Back	0	0.627	0.303	1.327	0.832	0.402		18.0	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	1	77	Top	0	0.689	0.315	1.324	0.912	0.417		17.6	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	36	0	Top	0	0.556	0.255	1.324	0.736	0.338		18.5	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	18.20	16.97	75	0	Top	0	0.745	0.322	1.327	0.989	0.427		17.2	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.04	707.50	141500	CP-OFDM	0.0	18.20	16.97	1	1	Top	0	0.604	0.273	1.327	0.802	0.362		18.1	17.2
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	1	77	Bottom	0	0.005	0.002	1.324	0.007	0.003		39.0	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	36	0	Bottom	0	0.006	0.003	1.324	0.008	0.004		38.2	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	1	77	Right	0	0.099	0.047	1.324	0.131	0.062		26.0	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	36	0	Right	0	0.108	0.050	1.324	0.143	0.066		25.6	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	1	77	Left	0	0.025	0.008	1.324	0.033	0.011		32.0	
Body	NR Band n12	15	QPSK	3b	RYQC0	1:1	-0.21	707.50	141500	DFT-s-OFDM	0.0	18.20	16.98	36	0	Left	0	0.033	0.012	1.324	0.044	0.016		30.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-50 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	20.00	19.09	1	1	Back	0	0.755	0.346	1.233	0.931	0.427		19.3	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	20.00	19.05	36	0	Back	0	0.732	0.331	1.245	0.911	0.412		19.4	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.00	18.99	75	0	Back	0	0.630	0.311	1.262	0.795	0.392		20.0	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	0.03	707.50	141500	CP-OFDM	0.0	20.00	19.05	1	1	Back	0	0.794	0.365	1.245	0.989	0.454	A17	19.0	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	20.00	19.09	1	1	Top	0	0.457	0.183	1.233	0.563	0.226		21.5	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	20.00	19.05	36	0	Top	0	0.529	0.215	1.245	0.659	0.268		20.8	19.0
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.15	707.50	141500	DFT-s-OFDM	0.0	20.00	19.09	1	1	Bottom	0	0.018	0.008	1.233	0.022	0.010		35.5	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	20.00	19.05	36	0	Bottom	0	0.018	0.008	1.245	0.022	0.010		35.5	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	20.00	19.09	1	1	Right	0	0.037	0.016	1.233	0.046	0.020		32.4	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	20.00	19.05	36	0	Right	0	0.034	0.014	1.245	0.042	0.017		32.7	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.00	19.09	1	1	Left	0	0.565	0.194	1.233	0.697	0.239		20.6	
Body	NR Band n12	15	QPSK	4	2KN7Q	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	20.00	19.05	36	0	Left	0	0.489	0.172	1.245	0.609	0.214		21.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	17.60	16.08	1	50	Back	0	0.592	0.282	1.419	0.840	0.400		17.3	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	17.60	16.09	25	0	Back	0	0.622	0.297	1.416	0.881	0.421		17.1	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	17.60	15.98	50	0	Back	0	0.555	0.270	1.452	0.806	0.392		17.5	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	17.60	16.08	1	50	Top	0	0.666	0.287	1.419	0.945	0.407		16.8	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	17.60	16.09	25	0	Top	0	0.699	0.301	1.416	0.990	0.426	A18	16.6	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	17.60	15.98	50	0	Top	0	0.643	0.294	1.452	0.934	0.427		16.9	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.01	793.00	158600	CP-OFDM	0.0	17.60	15.90	1	1	Top	0	0.668	0.288	1.479	0.988	0.426		16.6	16.6
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	17.60	16.08	1	50	Bottom	0	0.006	0.002	1.419	0.009	0.003		37.3	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	17.60	16.09	25	0	Bottom	0	0.002	0.001	1.416	0.003	0.001		42.1	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	17.60	16.08	1	50	Right	0	0.073	0.036	1.419	0.104	0.051		26.4	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	17.60	16.09	25	0	Right	0	0.093	0.046	1.416	0.132	0.065		25.4	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.19	793.00	158600	DFT-s-OFDM	0.0	17.60	16.08	1	50	Left	0	0.015	0.007	1.419	0.021	0.010		33.3	
Body	NR Band n14	10	QPSK	3b	2KN7Q	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	17.60	16.09	25	0	Left	0	0.010	0.004	1.416	0.014	0.006		35.1	
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 10-52 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	20.00	18.86	1	1	Back	0	0.635	0.317	1.300	0.826	0.412		19.8	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.00	18.94	25	14	Back	0	0.612	0.292	1.276	0.781	0.373		20.1	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	20.00	18.85	50	0	Back	0	0.618	0.296	1.303	0.805	0.386		19.9	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	-0.04	793.00	158600	CP-OFDM	0.0	20.00	18.97	1	1	Back	0	0.670	0.323	1.268	0.850	0.410		19.7	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.00	18.86	1	1	Top	0	0.607	0.259	1.300	0.789	0.337		20.0	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	20.00	18.94	25	14	Top	0	0.577	0.245	1.276	0.736	0.313		20.3	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.10	793.00	158600	DFT-s-OFDM	0.0	20.00	18.86	1	1	Bottom	0	0.018	0.009	1.300	0.023	0.012		35.3	19.7
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.00	18.94	25	14	Bottom	0	0.018	0.009	1.276	0.023	0.011		35.4	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	20.00	18.86	1	1	Right	0	0.035	0.016	1.300	0.046	0.021		32.4	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	20.00	18.94	25	14	Right	0	0.025	0.012	1.276	0.032	0.015		33.9	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	20.00	18.86	1	1	Left	0	0.603	0.222	1.300	0.784	0.289		20.0	
Body	NR Band n14	10	QPSK	4	2KN7Q	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	20.00	18.94	25	14	Left	0	0.599	0.223	1.276	0.764	0.285		20.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	17.00	15.75	1	1	Back	0	0.647	0.314	1.334	0.863	0.419		16.6	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	17.00	15.74	50	0	Back	0	0.611	0.296	1.337	0.817	0.396		16.9	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	17.00	15.67	100	0	Back	0	0.610	0.298	1.358	0.828	0.405		16.8	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	17.00	15.75	1	1	Top	0	0.704	0.301	1.334	0.939	0.402		16.3	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	17.00	15.74	50	0	Top	0	0.669	0.289	1.337	0.894	0.386		16.5	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	17.00	15.67	100	0	Top	0	0.690	0.292	1.358	0.937	0.397		16.3	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	-0.03	831.50	166300	CP-OFDM	0.0	17.00	15.64	1	1	Top	0	0.724	0.305	1.368	0.990	0.417		16.0	16.0
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	17.00	15.75	1	1	Bottom	0	0.012	0.004	1.334	0.016	0.005		33.9	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	17.00	15.74	50	0	Bottom	0	0.008	0.003	1.337	0.011	0.004		35.7	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	17.00	15.75	1	1	Right	0	0.079	0.038	1.334	0.105	0.051		25.8	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	17.00	15.74	50	0	Right	0	0.078	0.037	1.337	0.104	0.049		25.8	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	-0.17	831.50	166300	DFT-s-OFDM	0.0	17.00	15.75	1	1	Left	0	0.022	0.008	1.334	0.029	0.011		31.3	
Body	NR Band n26	20	QPSK	3b	H59RP	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	17.00	15.74	50	0	Left	0	0.021	0.008	1.337	0.028	0.011		31.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-54 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	18.80	18.35	1	1	Back	0	0.873	0.393	1.109	0.968	0.436	A19	17.9	17.8
Body	NR Band n26	20	QPSK	4	H59RP	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	18.80	18.39	50	0	Back	0	0.846	0.374	1.099	0.930	0.411		18.1	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	18.80	18.32	100	0	Back	0	0.793	0.353	1.117	0.886	0.394		18.3	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.01	831.50	166300	CP-OFDM	0.0	18.80	18.17	1	1	Back	0	0.854	0.378	1.156	0.987	0.437		17.8	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	18.80	18.35	1	1	Top	0	0.565	0.224	1.109	0.627	0.248		19.8	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	18.80	18.39	50	0	Top	0	0.557	0.226	1.099	0.612	0.248		19.9	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	18.80	18.35	1	1	Bottom	0	0.029	0.013	1.109	0.032	0.014		32.7	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	18.80	18.39	50	0	Bottom	0	0.027	0.012	1.099	0.030	0.013		33.1	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	18.80	18.35	1	1	Right	0	0.017	0.008	1.109	0.019	0.009		35.0	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	18.80	18.39	50	0	Right	0	0.018	0.008	1.099	0.020	0.009		34.8	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	18.80	18.35	1	1	Left	0	0.703	0.242	1.109	0.780	0.268		18.9	
Body	NR Band n26	20	QPSK	4	H59RP	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	18.80	18.39	50	0	Left	0	0.715	0.246	1.099	0.786	0.270		18.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	17.00	15.74	1	53	Back	0	0.667	0.323	1.337	0.892	0.432		16.5	16.0
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	17.00	15.75	50	0	Back	0	0.678	0.328	1.334	0.904	0.438		16.4	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	17.00	15.51	100	0	Back	0	0.672	0.327	1.409	0.947	0.461		16.2	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	17.00	15.74	1	53	Top	0	0.691	0.297	1.337	0.924	0.397		16.3	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	17.00	15.75	50	0	Top	0	0.678	0.290	1.334	0.904	0.387		16.4	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	17.00	15.51	100	0	Top	0	0.701	0.297	1.409	0.988	0.418		16.0	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.01	836.50	167300	CP-OFDM	0.0	17.00	15.85	1	1	Top	0	0.711	0.302	1.303	0.926	0.394		16.3	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.16	836.50	167300	DFT-s-OFDM	0.0	17.00	15.74	1	53	Bottom	0	0.011	0.005	1.337	0.015	0.007		34.3	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	17.00	15.75	50	0	Bottom	0	0.010	0.004	1.334	0.013	0.005		34.7	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	17.00	15.74	1	53	Right	0	0.095	0.046	1.337	0.127	0.062		24.9	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	17.00	15.75	50	0	Right	0	0.086	0.041	1.334	0.115	0.055		25.4	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	17.00	15.74	1	53	Left	0	0.023	0.009	1.337	0.031	0.012		31.1	
Body	NR Band n5	20	QPSK	3b	FVHC4	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	17.00	15.75	50	0	Left	0	0.022	0.008	1.334	0.029	0.011		31.3	
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 10-56 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	18.80	18.41	1	53	Back	0	0.710	0.350	1.094	0.777	0.383		18.9	17.8
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	18.80	18.34	50	0	Back	0	0.759	0.368	1.112	0.844	0.409		18.5	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	18.80	18.31	100	0	Back	0	0.753	0.361	1.119	0.843	0.404		18.5	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.01	836.50	167300	CP-OFDM	0.0	18.80	18.29	1	1	Back	0	0.880	0.408	1.125	0.990	0.459	A20	17.8	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	18.80	18.41	1	53	Top	0	0.571	0.232	1.094	0.625	0.254		19.8	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	18.80	18.34	50	0	Top	0	0.564	0.233	1.112	0.627	0.259		19.8	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	-0.20	836.50	167300	DFT-s-OFDM	0.0	18.80	18.41	1	53	Bottom	0	0.023	0.011	1.094	0.025	0.012		33.8	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.14	836.50	167300	DFT-s-OFDM	0.0	18.80	18.34	50	0	Bottom	0	0.024	0.011	1.112	0.027	0.012		33.5	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	18.80	18.41	1	53	Right	0	0.030	0.013	1.094	0.033	0.014		32.6	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	18.80	18.34	50	0	Right	0	0.022	0.010	1.112	0.024	0.011		33.9	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	18.80	18.41	1	53	Left	0	0.706	0.255	1.094	0.772	0.279		18.9	
Body	NR Band n5	20	QPSK	4	H59RP	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	18.80	18.34	50	0	Left	0	0.709	0.249	1.112	0.788	0.277		18.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.41	1	1	Back	0	0.648	0.257	1.256	0.814	0.323		12.3	11.4
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.40	36	43	Back	0	0.658	0.260	1.259	0.828	0.327		12.2	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.32	75	0	Back	0	0.771	0.305	1.282	0.988	0.391		11.4	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	-0.01	1702.50	340500	CP-OFDM	0.0	12.40	11.58	1	1	Back	0	0.624	0.251	1.208	0.754	0.303		12.6	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.41	1	1	Top	0	0.000	0.000	1.256	0.000	0.000		50.4	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.40	36	43	Top	0	0.001	0.000	1.259	0.001	0.000		40.4	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.41	1	1	Bottom	0	0.461	0.175	1.256	0.579	0.220		13.8	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.40	36	43	Bottom	0	0.466	0.176	1.259	0.587	0.222		13.7	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.41	1	1	Right	0	0.004	0.002	1.256	0.005	0.003		34.4	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.40	36	43	Right	0	0.003	0.001	1.259	0.004	0.001		35.6	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.41	1	1	Left	0	0.038	0.016	1.256	0.048	0.020		24.6	
Body	NR Band n70	15	QPSK	1b	QTWR5	1:1	-0.15	1702.50	340500	DFT-s-OFDM	0.0	12.40	11.40	36	43	Left	0	0.033	0.015	1.259	0.042	0.019		25.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-58 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.16	1	40	Back	0	0.585	0.230	1.213	0.710	0.279		14.5	13.1
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.19	36	43	Back	0	0.612	0.236	1.205	0.737	0.284		14.3	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.16	1	40	Top	0	0.004	0.002	1.213	0.005	0.002		36.1	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.19	36	43	Top	0	0.003	0.001	1.205	0.004	0.001		37.4	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.16	1	40	Bottom	0	0.697	0.277	1.213	0.845	0.336		13.7	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.19	36	43	Bottom	0	0.689	0.274	1.205	0.830	0.330		13.8	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.90	75	0	Bottom	0	0.759	0.298	1.288	0.978	0.384		13.1	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.02	1702.50	340500	CP-OFDM	0.0	14.00	13.10	1	1	Bottom	0	0.661	0.258	1.230	0.813	0.317		13.9	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.16	1	40	Right	0	0.055	0.025	1.213	0.067	0.030		24.7	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.19	36	43	Right	0	0.057	0.026	1.205	0.069	0.031		24.6	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.16	1	40	Left	0	0.006	0.003	1.213	0.007	0.004		34.4	
Body	NR Band n70	15	QPSK	2b	RYQC0	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	14.00	13.19	36	43	Left	0	0.005	0.002	1.205	0.006	0.002		35.2	
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 10-59 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.26	1	1	Back	0	0.373	0.169	1.107	0.413	0.187		16.5	12.8
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.45	36	43	Back	0	0.381	0.173	1.059	0.403	0.183		16.6	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.26	1	1	Top	0	0.292	0.093	1.107	0.323	0.103		17.6	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.45	36	43	Top	0	0.285	0.092	1.059	0.302	0.097		17.9	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.26	1	1	Bottom	0	0.012	0.005	1.107	0.013	0.006		31.4	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.45	36	43	Bottom	0	0.000	0.000	1.059	0.000	0.000		52.4	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.26	1	1	Right	0	0.885	0.351	1.107	0.980	0.389	A21	12.8	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.25	1	1	Right	0	0.772	0.316	1.107	0.855	0.350		13.4	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.45	36	43	Right	0	0.770	0.313	1.059	0.815	0.331		13.6	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.25	75	0	Right	0	0.800	0.324	1.109	0.887	0.359		13.2	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.01	1702.50	340500	CP-OFDM	0.0	13.70	13.55	1	1	Right	0	0.811	0.328	1.035	0.839	0.339		13.4	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.26	1	1	Left	0	0.002	0.000	1.107	0.002	0.000		39.2	
Body	NR Band n70	15	QPSK	3a	4M9DC	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	13.70	13.45	36	43	Left	0	0.000	0.000	1.059	0.000	0.000		52.4	
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 10-60 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.79	1	1	Back	0	0.623	0.273	1.178	0.734	0.322		15.8	15.0
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.74	36	0	Back	0	0.686	0.287	1.191	0.817	0.342		15.4	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.68	75	0	Back	0	0.686	0.287	1.208	0.829	0.347		15.3	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.79	1	1	Top	0	0.566	0.256	1.178	0.667	0.302		16.2	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.74	36	0	Top	0	0.557	0.251	1.191	0.663	0.299		16.3	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.79	1	1	Bottom	0	0.000	0.000	1.178	0.000	0.000		53.8	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.74	36	0	Bottom	0	0.000	0.000	1.191	0.000	0.000		53.7	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.79	1	1	Right	0	0.017	0.008	1.178	0.020	0.009		31.5	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.74	36	0	Right	0	0.018	0.008	1.191	0.021	0.010		31.2	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.79	1	1	Left	0	0.725	0.248	1.178	0.854	0.292		15.2	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.74	36	0	Left	0	0.716	0.241	1.191	0.853	0.287		15.2	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	15.50	14.68	75	0	Left	0	0.724	0.245	1.208	0.875	0.296		15.1	
Body	NR Band n70	15	QPSK	4	2HGJG	1:1	-0.03	1702.50	340500	CP-OFDM	0.0	15.50	14.87	1	1	Left	0	0.767	0.258	1.156	0.887	0.298		15.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.85	1	1	Back	0	0.776	0.305	1.135	0.881	0.346		11.9	11.8
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.97	108	0	Back	0	0.758	0.300	1.104	0.837	0.331		12.2	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.84	216	0	Back	0	0.749	0.290	1.138	0.852	0.330		12.1	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	-0.03	1745.00	349000	CP-OFDM	0.0	12.40	11.47	1	1	Back	0	0.731	0.288	1.239	0.906	0.357		11.8	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.85	1	1	Top	0	0.000	0.000	1.135	0.000	0.000		50.8	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.97	108	0	Top	0	0.000	0.000	1.104	0.000	0.000		51.0	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.85	1	1	Bottom	0	0.531	0.202	1.135	0.603	0.229		13.6	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.97	108	0	Bottom	0	0.532	0.201	1.104	0.587	0.222		13.7	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.85	1	1	Right	0	0.003	0.001	1.135	0.003	0.001		36.1	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.97	108	0	Right	0	0.003	0.001	1.104	0.003	0.001		36.2	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.85	1	1	Left	0	0.032	0.014	1.135	0.036	0.016		25.8	
Body	NR Band n66	40	QPSK	1b	QTWR5	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	12.40	11.97	108	0	Left	0	0.035	0.015	1.104	0.039	0.017		25.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-62 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	-0.20	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.19	1	1	Back	0	0.723	0.304	1.205	0.871	0.366		13.6	13.0
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	0	Back	0	0.697	0.279	1.227	0.855	0.342		13.7	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.03	216	0	Back	0	0.707	0.289	1.250	0.884	0.361		13.5	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.19	1	1	Top	0	0.004	0.002	1.205	0.005	0.002		36.2	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	0	Top	0	0.003	0.001	1.227	0.004	0.001		37.3	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.19	1	1	Bottom	0	0.821	0.328	1.205	0.989	0.395		13.0	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	0	Bottom	0	0.789	0.313	1.227	0.968	0.384		13.1	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.03	216	0	Bottom	0	0.764	0.300	1.250	0.955	0.375		13.2	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.02	1745.00	349000	CP-OFDM	0.0	14.00	13.22	1	1	Bottom	0	0.824	0.330	1.197	0.986	0.395	A22	13.0	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.19	1	1	Right	0	0.065	0.031	1.205	0.078	0.037		24.0	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	0	Right	0	0.070	0.034	1.227	0.086	0.042		23.6	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.19	1	1	Left	0	0.005	0.002	1.205	0.006	0.002		35.2	
Body	NR Band n66	40	QPSK	2b	QTWR5	1:1	0.19	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	0	Left	0	0.006	0.003	1.227	0.007	0.004		34.3	
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 10-63 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.90	1	214	Back	0	0.241	0.112	1.202	0.290	0.135		18.1	12.7
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	-0.14	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.86	108	54	Back	0	0.361	0.167	1.213	0.438	0.203		16.3	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.90	1	214	Top	0	0.284	0.091	1.202	0.341	0.109		17.3	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.86	108	54	Top	0	0.307	0.098	1.213	0.372	0.119		17.0	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.90	1	214	Bottom	0	0.009	0.004	1.202	0.011	0.005		32.3	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.86	108	54	Bottom	0	0.009	0.004	1.213	0.011	0.005		32.3	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.90	1	214	Right	0	0.785	0.311	1.202	0.944	0.374		12.9	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.86	108	54	Right	0	0.799	0.319	1.213	0.969	0.387		12.8	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.84	216	0	Right	0	0.782	0.318	1.219	0.953	0.388		12.9	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	-0.07	1745.00	349000	CP-OFDM	0.0	13.70	12.81	1	1	Right	0	0.806	0.324	1.227	0.989	0.398		12.7	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.90	1	214	Left	0	0.002	0.000	1.202	0.002	0.000		38.9	
Body	NR Band n66	40	QPSK	3a	QTWR5	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.70	12.86	108	54	Left	0	0.002	0.000	1.213	0.002	0.000		38.8	
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 10-64 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.49	1	1	Back	0	0.703	0.293	1.262	0.887	0.370		15.0	14.7
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.57	108	0	Back	0	0.751	0.305	1.239	0.930	0.378		14.8	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.23	216	0	Back	0	0.712	0.294	1.340	0.954	0.394		14.7	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.02	1745.00	349000	CP-OFDM	0.0	15.50	14.56	1	1	Back	0	0.754	0.308	1.242	0.936	0.383		14.8	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.49	1	1	Top	0	0.570	0.257	1.262	0.719	0.324		15.9	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.57	108	0	Top	0	0.589	0.266	1.239	0.730	0.330		15.8	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.49	1	1	Bottom	0	0.000	0.000	1.262	0.000	0.000		53.5	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.57	108	0	Bottom	0	0.000	0.000	1.239	0.000	0.000		53.6	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.15	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.49	1	1	Right	0	0.026	0.012	1.262	0.033	0.015		29.3	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.57	108	0	Right	0	0.036	0.015	1.239	0.045	0.019		28.0	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.49	1	1	Left	0	0.636	0.221	1.262	0.803	0.279		15.4	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.57	108	0	Left	0	0.652	0.225	1.239	0.808	0.279		15.4	
Body	NR Band n66	40	QPSK	4	L9TJR	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.50	14.23	216	0	Left	0	0.628	0.214	1.340	0.842	0.287		15.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	-0.18	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.66	1	1	Back	0	0.657	0.256	1.393	0.915	0.357		12.5	12.1
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.73	108	108	Back	0	0.676	0.260	1.371	0.927	0.356		12.4	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.61	216	0	Back	0	0.622	0.244	1.409	0.876	0.344		12.7	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.01	1882.50	376500	CP-OFDM	0.0	13.10	11.50	1	1	Back	0	0.685	0.263	1.445	0.990	0.380		12.1	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.66	1	1	Top	0	0.002	0.000	1.393	0.003	0.000		37.6	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.73	108	108	Top	0	0.002	0.000	1.371	0.003	0.000		37.7	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.66	1	1	Bottom	0	0.470	0.164	1.393	0.655	0.228		13.9	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.73	108	108	Bottom	0	0.476	0.169	1.371	0.653	0.232		13.9	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.66	1	1	Right	0	0.003	0.000	1.393	0.004	0.000		35.9	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.73	108	108	Right	0	0.003	0.000	1.371	0.004	0.000		35.9	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.66	1	1	Left	0	0.040	0.018	1.393	0.056	0.025		24.6	
Body	NR Band n25	40	QPSK	1b	DV71P	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	13.10	11.73	108	108	Left	0	0.044	0.020	1.371	0.060	0.027		24.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-66 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.35	1	108	Back	0	0.317	0.123	1.429	0.453	0.176		16.3	13.4
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.33	108	0	Back	0	0.320	0.127	1.435	0.459	0.182		16.3	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.35	1	108	Top	0	0.000	0.000	1.429	0.000	0.000		51.3	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.33	108	0	Top	0	0.001	0.000	1.435	0.001	0.000		41.3	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.35	1	108	Bottom	0	0.571	0.211	1.429	0.816	0.302		13.8	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.33	108	0	Bottom	0	0.578	0.207	1.435	0.829	0.297		13.7	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.29	216	0	Bottom	0	0.607	0.218	1.449	0.880	0.316		13.4	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	13.90	12.15	1	1	Bottom	0	0.563	0.205	1.496	0.842	0.307		13.6	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.35	1	108	Right	0	0.037	0.016	1.429	0.053	0.023		25.6	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.33	108	0	Right	0	0.040	0.017	1.435	0.057	0.024		25.3	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.35	1	108	Left	0	0.000	0.000	1.429	0.000	0.000		51.3	
Body	NR Band n25	40	QPSK	2b	DV71P	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.90	12.33	108	0	Left	0	0.001	0.000	1.435	0.001	0.000		41.3	
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 10-67 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.74	1	214	Back	0	0.365	0.166	1.219	0.445	0.202		17.1	13.6
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.67	108	108	Back	0	0.357	0.161	1.239	0.442	0.199		17.1	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.74	1	214	Top	0	0.296	0.093	1.219	0.361	0.113		18.0	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.67	108	108	Top	0	0.293	0.092	1.239	0.363	0.114		18.0	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	-0.18	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.74	1	214	Bottom	0	0.004	0.001	1.219	0.005	0.001		36.7	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.67	108	108	Bottom	0	0.004	0.001	1.239	0.005	0.001		36.6	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.74	1	214	Right	0	0.755	0.283	1.219	0.920	0.345		13.9	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.67	108	108	Right	0	0.799	0.299	1.239	0.990	0.370	A23	13.6	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.64	216	0	Right	0	0.793	0.297	1.247	0.989	0.370		13.6	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	0.09	1882.50	376500	CP-OFDM	0.0	14.60	13.81	1	1	Right	0	0.763	0.292	1.199	0.915	0.350		14.0	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.74	1	214	Left	0	0.013	0.005	1.219	0.016	0.006		31.6	
Body	NR Band n25	40	QPSK	3a	DV71P	1:1	-0.21	1882.50	376500	DFT-s-OFDM	0.0	14.60	13.67	108	108	Left	0	0.012	0.004	1.239	0.015	0.005		31.9	
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 10-68 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.94	1	1	Back	0	0.564	0.227	1.276	0.720	0.290		14.4	14.2
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.88	108	108	Back	0	0.566	0.225	1.294	0.732	0.291		14.3	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.13	1882.50	376500	CP-OFDM	0.0	14.00	12.97	1	1	Back	0	0.594	0.236	1.268	0.753	0.299		14.2	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.21	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.94	1	1	Top	0	0.350	0.145	1.276	0.447	0.185		16.5	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.88	108	108	Top	0	0.321	0.132	1.294	0.415	0.171		16.8	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.94	1	1	Bottom	0	0.000	0.000	1.276	0.000	0.000		51.9	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.88	108	108	Bottom	0	0.000	0.000	1.294	0.000	0.000		51.9	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.94	1	1	Right	0	0.010	0.004	1.276	0.013	0.005		31.9	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	0.16	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.88	108	108	Right	0	0.006	0.002	1.294	0.008	0.003		34.1	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.94	1	1	Left	0	0.221	0.066	1.276	0.282	0.084		18.5	
Body	NR Band n25	40	QPSK	4	DV71P	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	14.00	12.88	108	108	Left	0	0.163	0.046	1.294	0.211	0.060		19.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.59	1	26	Back	0	0.569	0.203	1.483	0.844	0.301		14.0	13.3
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.54	25	27	Back	0	0.573	0.203	1.500	0.860	0.305		13.9	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.44	50	0	Back	0	0.554	0.198	1.535	0.850	0.304		14.0	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.59	1	26	Top	0	0.000	0.000	1.483	0.000	0.000		51.6	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.54	25	27	Top	0	0.000	0.000	1.500	0.000	0.000		51.5	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.59	1	26	Bottom	0	0.622	0.203	1.483	0.922	0.301		13.6	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.54	25	27	Bottom	0	0.607	0.198	1.500	0.911	0.297		13.7	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.44	50	0	Bottom	0	0.643	0.205	1.535	0.987	0.315		13.3	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.02	2310.00	462000	CP-OFDM	0.0	14.30	12.30	1	1	Bottom	0	0.609	0.198	1.585	0.965	0.314		13.4	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.59	1	26	Right	0	0.000	0.000	1.483	0.000	0.000		51.6	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.54	25	27	Right	0	0.001	0.000	1.500	0.002	0.000		41.5	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.59	1	26	Left	0	0.007	0.003	1.483	0.010	0.004		33.1	
Body	NR Band n30	10	QPSK	1b	DV71P	1:1	0.21	2310.00	462000	DFT-s-OFDM	0.0	14.30	12.54	25	27	Left	0	0.007	0.003	1.500	0.011	0.005		33.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-70 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.54	1	26	Back	0	0.665	0.257	1.247	0.829	0.320		14.3	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.51	25	0	Back	0	0.671	0.259	1.256	0.843	0.325		14.2	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.49	50	0	Back	0	0.685	0.265	1.262	0.864	0.334		14.1	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.54	1	26	Top	0	0.001	0.000	1.247	0.001	0.000		42.5	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.51	25	0	Top	0	0.000	0.000	1.256	0.000	0.000		52.5	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.54	1	26	Bottom	0	0.726	0.243	1.247	0.905	0.303		13.9	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.51	25	0	Bottom	0	0.703	0.236	1.256	0.883	0.296		14.0	13.5
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.49	50	0	Bottom	0	0.729	0.242	1.262	0.920	0.305		13.8	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.02	2310.00	462000	CP-OFDM	0.0	14.50	13.25	1	1	Bottom	0	0.742	0.247	1.334	0.990	0.329		13.5	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.54	1	26	Right	0	0.023	0.009	1.247	0.029	0.011		28.9	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.51	25	0	Right	0	0.025	0.010	1.256	0.031	0.013		28.5	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.54	1	26	Left	0	0.011	0.005	1.247	0.014	0.006		32.1	
Body	NR Band n30	10	QPSK	2b	DV71P	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	14.50	13.51	25	0	Left	0	0.006	0.003	1.256	0.008	0.004		34.7	
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 10-71 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.30	1	50	Back	0	0.384	0.172	1.230	0.472	0.212		14.4	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.23	25	0	Back	0	0.369	0.168	1.250	0.461	0.210		14.5	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.30	1	50	Top	0	0.262	0.079	1.230	0.322	0.097		16.1	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.23	25	0	Top	0	0.253	0.076	1.250	0.316	0.095		16.2	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	-0.17	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.30	1	50	Bottom	0	0.010	0.004	1.230	0.012	0.005		30.3	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.23	25	0	Bottom	0	0.010	0.004	1.250	0.013	0.005		30.2	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.30	1	50	Right	0	0.766	0.289	1.230	0.942	0.355		11.4	11.2
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.23	25	0	Right	0	0.757	0.287	1.250	0.946	0.359		11.4	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.22	50	0	Right	0	0.775	0.291	1.253	0.971	0.365		11.3	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	-0.02	2310.00	462000	CP-OFDM	0.0	12.20	11.17	1	1	Right	0	0.780	0.292	1.268	0.989	0.370	A24	11.2	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.30	1	50	Left	0	0.002	0.000	1.230	0.002	0.000		37.3	
Body	NR Band n30	10	QPSK	3a	FVHC4	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	12.20	11.23	25	0	Left	0	0.001	0.000	1.250	0.001	0.000		40.2	
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 10-72 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.64	1	50	Back	0	0.659	0.254	1.247	0.822	0.317		12.4	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.58	25	27	Back	0	0.658	0.252	1.265	0.832	0.319		12.4	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.57	50	0	Back	0	0.662	0.252	1.268	0.839	0.320		12.3	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.64	1	50	Top	0	0.323	0.102	1.247	0.403	0.127		15.5	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.58	25	27	Top	0	0.321	0.121	1.265	0.406	0.153		15.5	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.64	1	50	Bottom	0	0.005	0.001	1.247	0.006	0.001		33.6	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.58	25	27	Bottom	0	0.004	0.001	1.265	0.005	0.001		34.5	11.6
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.64	1	50	Right	0	0.002	0.000	1.247	0.002	0.000		37.6	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.58	25	27	Right	0	0.002	0.000	1.265	0.003	0.000		37.6	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.64	1	50	Left	0	0.682	0.238	1.247	0.850	0.297		12.3	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.58	25	27	Left	0	0.715	0.244	1.265	0.904	0.309		12.0	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	12.60	11.57	50	0	Left	0	0.730	0.248	1.268	0.926	0.314		11.9	
Body	NR Band n30	10	QPSK	4	DV71P	1:1	-0.03	2310.00	462000	CP-OFDM	0.0	12.60	11.52	1	1	Left	0	0.772	0.261	1.282	0.990	0.335		11.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.38	1	1	Back	0	0.574	0.191	1.294	0.743	0.247		13.8	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.31	108	0	Back	0	0.570	0.188	1.315	0.750	0.247		13.7	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.38	1	1	Top	0	0.000	0.000	1.294	0.000	0.000		51.4	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.31	108	0	Top	0	0.000	0.000	1.315	0.000	0.000		51.3	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.38	1	1	Bottom	0	0.729	0.228	1.294	0.943	0.295		12.7	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.31	108	0	Bottom	0	0.751	0.233	1.315	0.988	0.306		12.5	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.23	216	0	Bottom	0	0.738	0.227	1.340	0.989	0.304		12.5	12.5
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	-0.05	2535.00	507000	CP-OFDM	0.0	13.50	12.34	1	1	Bottom	0	0.734	0.224	1.306	0.959	0.293		12.7	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.38	1	1	Right	0	0.000	0.000	1.294	0.000	0.000		51.4	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.31	108	0	Right	0	0.000	0.000	1.315	0.000	0.000		51.3	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.38	1	1	Left	0	0.000	0.000	1.294	0.000	0.000		51.4	
Body	NR Band n7	40	QPSK	1b	DY14P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.31	108	0	Left	0	0.000	0.000	1.315	0.000	0.000		51.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-74 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.63	1	1	Back	0	0.808	0.337	1.222	0.987	0.412	A25	13.5	13.5
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.55	108	0	Back	0	0.791	0.331	1.245	0.985	0.412		13.5	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.52	216	0	Back	0	0.789	0.334	1.253	0.989	0.419		13.5	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.07	2535.00	507000	CP-OFDM	0.0	14.50	13.64	1	1	Back	0	0.725	0.302	1.219	0.884	0.368		14.0	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.63	1	1	Top	0	0.000	0.000	1.222	0.000	0.000		52.6	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.55	108	0	Top	0	0.000	0.000	1.245	0.000	0.000		52.5	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.63	1	1	Bottom	0	0.508	0.176	1.222	0.621	0.215		15.6	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.55	108	0	Bottom	0	0.509	0.176	1.245	0.634	0.219		15.5	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.63	1	1	Right	0	0.014	0.005	1.222	0.017	0.006		31.1	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.55	108	0	Right	0	0.014	0.005	1.245	0.017	0.006		31.1	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.63	1	1	Left	0	0.012	0.004	1.222	0.015	0.005		31.8	
Body	NR Band n7	40	QPSK	2b	6PGJC	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.50	13.55	108	0	Left	0	0.012	0.004	1.245	0.015	0.005		31.7	
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 10-75 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.86	1	214	Back	0	0.427	0.178	1.242	0.530	0.221		12.5	9.8
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.88	108	0	Back	0	0.411	0.170	1.236	0.508	0.210		12.7	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.86	1	214	Top	0	0.260	0.075	1.242	0.323	0.093		14.7	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.88	108	0	Top	0	0.259	0.075	1.236	0.320	0.093		14.7	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	-0.19	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.86	1	214	Bottom	0	0.017	0.006	1.242	0.021	0.007		26.5	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.88	108	0	Bottom	0	0.018	0.006	1.236	0.022	0.007		26.3	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.86	1	214	Right	0	0.665	0.228	1.242	0.826	0.283		10.6	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.88	108	0	Right	0	0.704	0.241	1.236	0.870	0.298		10.4	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.77	216	0	Right	0	0.643	0.223	1.268	0.815	0.283		10.7	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	-0.06	2535.00	507000	CP-OFDM	0.0	10.80	9.82	1	1	Right	0	0.788	0.264	1.253	0.987	0.331		9.8	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.86	1	214	Left	0	0.003	0.000	1.242	0.004	0.000		34.1	
Body	NR Band n7	40	QPSK	3a	DY14P	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	10.80	9.88	108	0	Left	0	0.005	0.000	1.236	0.006	0.000		31.9	
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 10-76 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.74	1	1	Back	0	0.752	0.260	1.276	0.960	0.332		12.0	11.8
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.12	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.68	108	0	Back	0	0.720	0.251	1.294	0.932	0.325		12.1	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.61	216	0	Back	0	0.730	0.253	1.315	0.960	0.333		12.0	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.00	2535.00	507000	CP-OFDM	0.0	12.80	11.52	1	1	Back	0	0.736	0.254	1.343	0.988	0.341		11.8	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.74	1	1	Top	0	0.492	0.174	1.276	0.628	0.222		13.8	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.68	108	0	Top	0	0.465	0.164	1.294	0.602	0.212		14.0	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.74	1	1	Bottom	0	0.000	0.000	1.276	0.000	0.000		50.7	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.68	108	0	Bottom	0	0.000	0.000	1.294	0.000	0.000		50.7	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.74	1	1	Right	0	0.003	0.000	1.276	0.004	0.000		35.9	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.68	108	0	Right	0	0.002	0.000	1.294	0.003	0.000		37.7	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.74	1	1	Left	0	0.679	0.214	1.276	0.866	0.273		12.4	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.68	108	0	Left	0	0.689	0.214	1.294	0.892	0.277		12.3	
Body	NR Band n7	40	QPSK	4	PVQTY	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	12.80	11.61	216	0	Left	0	0.687	0.214	1.315	0.903	0.281		12.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.14	1	137	Back	0	0.819	0.268	1.014	0.830	0.272		13.0	12.2
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.11	135	69	Back	0	0.826	0.268	1.021	0.843	0.274		12.9	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.10	270	0	Back	0	0.806	0.263	1.023	0.825	0.269		13.0	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.14	1	137	Top	0	0.000	0.000	1.014	0.000	0.000		52.1	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.11	135	69	Top	0	0.000	0.000	1.021	0.000	0.000		52.1	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.14	1	137	Bottom	0	0.900	0.280	1.014	0.913	0.284		12.6	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.11	135	69	Bottom	0	0.894	0.277	1.021	0.913	0.283		12.6	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.10	270	0	Bottom	0	0.891	0.276	1.023	0.911	0.282		12.6	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.01	2592.99	518598	CP-OFDM	0.0	13.20	12.91	1	1	Bottom	0	0.925	0.280	1.069	0.989	0.299	A26	12.2	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.13	2592.99	518598	CP-OFDM	0.0	13.20	12.91	1	1	Bottom	0	0.924	0.281	1.069	0.988	0.300		12.2	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.11	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.14	1	137	Right	0	0.005	0.000	1.014	0.005	0.000		35.1	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.11	135	69	Right	0	0.005	0.000	1.021	0.005	0.000		35.1	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.14	1	137	Left	0	0.018	0.004	1.014	0.018	0.004		29.6	
Body	NR Band n41	100	QPSK	1b	DY14P	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	13.11	135	69	Left	0	0.017	0.005	1.021	0.017	0.005		29.8	
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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-78 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.81	1	271	Back	0	0.655	0.257	1.256	0.823	0.323		13.6	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.76	135	69	Back	0	0.756	0.301	1.271	0.961	0.383		13.0	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.75	270	0	Back	0	0.753	0.299	1.274	0.959	0.381		13.0	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	-0.06	2592.99	518598	CP-OFDM	0.0	13.80	12.85	1	1	Back	0	0.793	0.316	1.245	0.987	0.393		12.8	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.81	1	271	Top	0	0.005	0.001	1.256	0.006	0.001		34.8	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.20	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.76	135	69	Top	0	0.004	0.000	1.271	0.005	0.000		35.7	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.81	1	271	Bottom	0	0.476	0.151	1.256	0.598	0.190		15.0	12.8
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.11	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.76	135	69	Bottom	0	0.538	0.173	1.271	0.684	0.220		14.4	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.75	270	0	Bottom	0	0.536	0.173	1.274	0.683	0.220		14.4	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.81	1	271	Right	0	0.013	0.005	1.256	0.016	0.006		30.7	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.76	135	69	Right	0	0.016	0.006	1.271	0.020	0.008		29.7	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.81	1	271	Left	0	0.013	0.004	1.256	0.016	0.005		30.7	
Body	NR Band n41	100	QPSK	2b	DY14P	1:1	-0.17	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.76	135	69	Left	0	0.018	0.007	1.271	0.023	0.009		29.2	
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 10-79 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	11.60	9.99	1	1	Back	0	0.384	0.172	1.449	0.556	0.249		13.1	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	11.60	10.17	135	0	Back	0	0.358	0.159	1.390	0.498	0.221		13.6	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	11.60	9.99	1	1	Top	0	0.266	0.082	1.449	0.385	0.119		14.7	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	11.60	10.17	135	0	Top	0	0.262	0.081	1.390	0.364	0.113		15.0	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.60	9.99	1	1	Bottom	0	0.008	0.002	1.449	0.012	0.003		29.9	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	11.60	10.17	135	0	Bottom	0	0.010	0.004	1.390	0.014	0.006		29.2	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	11.60	9.99	1	1	Right	0	0.683	0.247	1.449	0.990	0.358		10.6	10.6
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	11.60	10.17	135	0	Right	0	0.627	0.226	1.390	0.872	0.314		11.2	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	11.60	9.94	270	0	Right	0	0.606	0.216	1.466	0.888	0.317		11.1	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.04	2592.99	518598	CP-OFDM	0.0	11.60	10.11	1	1	Right	0	0.660	0.240	1.409	0.930	0.338		10.9	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	11.60	9.99	1	1	Left	0	0.000	0.000	1.449	0.000	0.000		49.0	
Body	NR Band n41	100	QPSK	3a	H59RP	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	11.60	10.17	135	0	Left	0	0.000	0.000	1.390	0.000	0.000		49.2	
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 10-80 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.13	1	137	Back	0	0.810	0.284	1.140	0.923	0.324		12.0	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.17	135	138	Back	0	0.713	0.251	1.130	0.806	0.284		12.6	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.12	270	0	Back	0	0.777	0.276	1.143	0.888	0.315		12.2	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.13	1	137	Top	0	0.433	0.164	1.140	0.494	0.187		14.7	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.17	135	138	Top	0	0.399	0.151	1.130	0.451	0.171		15.1	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.13	1	137	Bottom	0	0.011	0.004	1.140	0.013	0.005		30.7	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.17	135	138	Bottom	0	0.015	0.006	1.130	0.017	0.007		29.4	11.7
Body	NR Band n41	100	QPSK	4	DY14P	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.13	1	137	Right	0	0.025	0.010	1.140	0.029	0.011		27.1	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.17	135	138	Right	0	0.024	0.008	1.130	0.027	0.009		27.3	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.13	1	137	Left	0	0.812	0.256	1.140	0.926	0.292		12.0	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.17	135	138	Left	0	0.804	0.253	1.130	0.909	0.286		12.1	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.70	12.12	270	0	Left	0	0.827	0.260	1.143	0.945	0.297		11.9	
Body	NR Band n41	100	QPSK	4	DY14P	1:1	0.00	2592.99	518598	CP-OFDM	0.0	12.70	11.90	1	1	Left	0	0.824	0.266	1.202	0.990	0.320		11.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.08	3570.00	638000	DFT-s-OFDM	0.0	10.90	10.06	1	104	Back	0	0.675	0.207	1.213	0.819	0.251		10.7	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.94	1	1	Back	0	0.665	0.199	1.247	0.829	0.248		10.7	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.77	1	104	Back	0	0.530	0.161	1.297	0.687	0.209		11.5	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.96	50	56	Back	0	0.706	0.213	1.242	0.877	0.265		10.5	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.95	50	0	Back	0	0.640	0.192	1.245	0.797	0.239		10.9	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.58	50	56	Back	0	0.576	0.168	1.355	0.780	0.228		11.0	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.79	100	0	Back	0	0.693	0.210	1.291	0.895	0.271		10.4	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	10.90	10.06	1	104	Top	0	0.002	0.000	1.213	0.002	0.000		36.0	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.96	50	56	Top	0	0.003	0.000	1.242	0.004	0.000		34.2	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.09	3570.00	638000	DFT-s-OFDM	0.0	10.90	10.06	1	104	Bottom	0	0.208	0.055	1.213	0.252	0.067		15.9	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.96	50	56	Bottom	0	0.211	0.055	1.242	0.262	0.068		15.7	9.9
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	10.90	10.06	1	104	Right	0	0.000	0.000	1.213	0.000	0.000		49.0	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.96	50	56	Right	0	0.000	0.000	1.242	0.000	0.000		48.9	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	10.90	10.06	1	104	Left	0	0.766	0.201	1.213	0.929	0.244		10.2	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.94	1	1	Left	0	0.724	0.188	1.247	0.903	0.234		10.3	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.77	1	104	Left	0	0.615	0.163	1.297	0.798	0.211		10.9	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.96	50	56	Left	0	0.713	0.193	1.242	0.886	0.240		10.4	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.07	3624.99	641666	DFT-s-OFDM	0.0	10.90	9.95	50	0	Left	0	0.680	0.184	1.245	0.847	0.229		10.6	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	10.90	9.58	50	56	Left	0	0.594	0.158	1.355	0.805	0.214		10.8	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	10.90	9.79	100	0	Left	0	0.767	0.204	1.291	0.990	0.263		9.9	
Body	NR Band n48	40	QPSK	1a	YMHXJ	1:1	-0.02	3624.99	641666	CP-OFDM	0.0	10.90	9.96	1	1	Left	0	0.712	0.189	1.242	0.884	0.235		10.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-82 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.35	1	53	Back	0	0.917	0.275	1.059	0.971	0.291		8.7	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.35	1	53	Back	0	0.901	0.274	1.059	0.954	0.290		8.8	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.09	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.46	1	1	Back	0	0.805	0.247	1.033	0.832	0.255		9.4	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.44	1	104	Back	0	0.948	0.284	1.038	0.984	0.295	A27	8.7	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.04	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.44	1	104	Back	0	0.915	0.275	1.038	0.950	0.285		8.8	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.24	50	0	Back	0	0.895	0.273	1.086	0.972	0.296		8.7	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.06	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.25	50	0	Back	0	0.820	0.253	1.084	0.889	0.274		9.1	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.08	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.15	50	56	Back	0	0.744	0.236	1.109	0.825	0.262		9.4	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.08	100	0	Back	0	0.720	0.231	1.127	0.811	0.260		9.5	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.03	3624.99	641666	CP-OFDM	0.0	9.60	9.12	1	1	Back	0	0.813	0.254	1.117	0.908	0.284		9.0	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.46	1	1	Top	0	0.011	0.002	1.033	0.011	0.002		28.0	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.14	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.25	50	0	Top	0	0.008	0.001	1.084	0.009	0.001		29.2	8.7
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.46	1	1	Bottom	0	0.287	0.078	1.033	0.296	0.081		13.9	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.25	50	0	Bottom	0	0.294	0.080	1.084	0.319	0.087		13.5	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.35	1	53	Right	0	0.863	0.220	1.059	0.914	0.233		9.0	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.46	1	1	Right	0	0.825	0.208	1.033	0.852	0.215		9.3	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.44	1	104	Right	0	0.863	0.215	1.038	0.896	0.223		9.1	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.24	50	0	Right	0	0.827	0.210	1.086	0.898	0.228		9.0	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.25	50	0	Right	0	0.790	0.201	1.084	0.856	0.218		9.3	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.15	50	56	Right	0	0.874	0.218	1.109	0.969	0.242		8.7	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.08	100	0	Right	0	0.803	0.205	1.127	0.905	0.231		9.0	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.46	1	1	Left	0	0.000	0.000	1.033	0.000	0.000		48.4	
Body	NR Band n48	40	QPSK	2a	X750N	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.25	50	0	Left	0	0.000	0.000	1.084	0.000	0.000		48.2	
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 10-83 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	12.50	12.06	1	104	Back	0	0.764	0.232	1.107	0.846	0.257		12.2	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	12.50	11.85	1	1	Back	0	0.646	0.191	1.161	0.750	0.222		12.7	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.05	3679.98	645332	DFT-s-OFDM	0.0	12.50	11.69	1	1	Back	0	0.735	0.223	1.205	0.886	0.269		12.0	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.96	50	0	Back	0	0.699	0.206	1.132	0.791	0.233		12.5	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	12.50	11.83	50	0	Back	0	0.744	0.224	1.167	0.868	0.261		12.1	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	12.50	11.84	50	0	Back	0	0.722	0.219	1.164	0.840	0.255		12.2	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.95	100	0	Back	0	0.768	0.230	1.135	0.872	0.261		12.1	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	12.50	12.06	1	104	Top	0	0.874	0.243	1.107	0.968	0.269		11.6	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	12.50	11.85	1	1	Top	0	0.767	0.239	1.161	0.890	0.277		12.0	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	12.50	11.69	1	1	Top	0	0.772	0.240	1.205	0.930	0.289		11.8	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.96	50	0	Top	0	0.852	0.237	1.132	0.964	0.268		11.6	11.5
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.09	3624.99	641666	DFT-s-OFDM	0.0	12.50	11.83	50	0	Top	0	0.832	0.231	1.167	0.971	0.270		11.6	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	12.50	11.84	50	0	Top	0	0.850	0.234	1.164	0.989	0.272		11.5	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.95	100	0	Top	0	0.854	0.236	1.135	0.969	0.268		11.6	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	-0.01	3570.00	638000	CP-OFDM	0.0	12.50	12.00	1	1	Top	0	0.831	0.232	1.122	0.932	0.260		11.8	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.50	12.06	1	104	Bottom	0	0.000	0.000	1.107	0.000	0.000		51.0	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.96	50	0	Bottom	0	0.000	0.000	1.132	0.000	0.000		50.9	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	12.50	12.06	1	104	Right	0	0.058	0.016	1.107	0.064	0.018		23.4	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.96	50	0	Right	0	0.067	0.019	1.132	0.076	0.022		22.7	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.50	12.06	1	104	Left	0	0.015	0.003	1.107	0.017	0.003		29.3	
Body	NR Band n48	40	QPSK	3b	6G9RH	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	12.50	11.96	50	0	Left	0	0.014	0.003	1.132	0.016	0.003		29.5	
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 10-84 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.10	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.40	1	104	Back	0	0.625	0.187	1.318	0.824	0.246		12.4	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.05	3624.99	641666	DFT-s-OFDM	0.0	12.60	11.15	1	1	Back	0	0.622	0.187	1.396	0.868	0.261		12.2	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	12.60	10.91	1	1	Back	0	0.585	0.172	1.476	0.863	0.254		12.2	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.25	50	0	Back	0	0.594	0.178	1.365	0.811	0.243		12.5	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	12.60	10.85	50	0	Back	0	0.662	0.195	1.496	0.990	0.292		11.6	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	12.60	10.78	50	0	Back	0	0.563	0.162	1.521	0.856	0.246		12.3	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.22	100	0	Back	0	0.596	0.174	1.374	0.819	0.239		12.4	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.03	3624.99	641666	CP-OFDM	0.0	12.60	11.35	1	1	Back	0	0.523	0.153	1.334	0.698	0.204		13.1	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.40	1	104	Top	0	0.223	0.071	1.318	0.294	0.094		16.9	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.25	50	0	Top	0	0.193	0.063	1.365	0.263	0.086		17.4	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.40	1	104	Bottom	0	0.001	0.000	1.318	0.001	0.000		40.4	11.6
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.25	50	0	Bottom	0	0.005	0.000	1.365	0.007	0.000		33.2	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.40	1	104	Right	0	0.002	0.000	1.318	0.003	0.000		37.4	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.25	50	0	Right	0	0.000	0.000	1.365	0.000	0.000		50.2	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.40	1	104	Left	0	0.427	0.115	1.318	0.563	0.152		14.1	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	12.60	11.15	1	1	Left	0	0.442	0.118	1.396	0.617	0.165		13.7	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	12.60	10.91	1	1	Left	0	0.398	0.104	1.476	0.587	0.154		13.9	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.25	50	0	Left	0	0.375	0.102	1.365	0.512	0.139		14.5	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.11	3624.99	641666	DFT-s-OFDM	0.0	12.60	10.85	50	0	Left	0	0.418	0.110	1.496	0.625	0.165		13.6	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	12.60	10.78	50	0	Left	0	0.368	0.097	1.521	0.560	0.148		14.1	
Body	NR Band n48	40	QPSK	4	QQWYH	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	12.60	11.22	100	0	Left	0	0.389	0.105	1.374	0.534	0.144		14.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.28 NR Band n77 DoD Standalone SAR

Table 10-85 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.90	1	271	Back	0	0.555	0.160	1.072	0.595	0.172		11.4	10.8
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.78	135	0	Back	0	0.427	0.135	1.102	0.471	0.149		12.5	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.90	1	271	Top	0	0.000	0.000	1.072	0.000	0.000		48.9	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.78	135	0	Top	0	0.000	0.000	1.102	0.000	0.000		48.8	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	-0.10	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.90	1	271	Bottom	0	0.175	0.046	1.072	0.188	0.049		16.5	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.78	135	0	Bottom	0	0.184	0.049	1.102	0.203	0.054		16.1	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.90	1	271	Right	0	0.000	0.000	1.072	0.000	0.000		48.9	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.78	135	0	Right	0	0.000	0.000	1.102	0.000	0.000		48.8	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.90	1	271	Left	0	0.648	0.168	1.072	0.695	0.180		10.8	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.78	135	0	Left	0	0.513	0.134	1.102	0.565	0.148		11.7	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.20	9.75	270	0	Left	0	0.545	0.143	1.109	0.604	0.159		11.4	
Body	NR Band n77 DoD	100	QPSK	1a	X750N	1:1	-0.04	3500.01	633334	CP-OFDM	0.0	10.20	9.74	1	1	Left	0	0.498	0.130	1.112	0.554	0.145		11.7	
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 10-86 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	-0.09	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.41	1	271	Back	0	0.553	0.184	1.146	0.634	0.211		9.0	7.0
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.45	135	0	Back	0	0.590	0.192	1.135	0.670	0.218		8.7	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.41	1	271	Top	0	0.005	0.000	1.146	0.006	0.000		29.4	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.45	135	0	Top	0	0.002	0.000	1.135	0.002	0.000		33.4	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.41	1	271	Bottom	0	0.224	0.059	1.146	0.257	0.068		12.9	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.45	135	0	Bottom	0	0.197	0.052	1.135	0.224	0.059		13.5	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.41	1	271	Right	0	0.782	0.208	1.146	0.896	0.238		7.5	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.45	135	0	Right	0	0.838	0.217	1.135	0.951	0.246		7.2	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.39	270	0	Right	0	0.860	0.220	1.151	0.990	0.253	A28	7.0	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.10	3500.01	633334	CP-OFDM	0.0	8.00	7.48	1	1	Right	0	0.818	0.217	1.127	0.922	0.245		7.3	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.41	1	271	Left	0	0.001	0.000	1.146	0.001	0.000		36.4	
Body	NR Band n77 DoD	100	QPSK	2a	X750N	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	8.00	7.45	135	0	Left	0	0.000	0.000	1.135	0.000	0.000		46.4	
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 10-87 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.31	1	271	Back	0	0.669	0.200	1.315	0.880	0.263		12.0	11.7
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.34	135	0	Back	0	0.654	0.194	1.306	0.854	0.253		12.2	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.30	270	0	Back	0	0.637	0.191	1.318	0.840	0.252		12.2	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.31	1	271	Top	0	0.726	0.199	1.315	0.955	0.262		11.7	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.34	135	0	Top	0	0.680	0.188	1.306	0.888	0.246		12.0	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.30	270	0	Top	0	0.669	0.184	1.318	0.882	0.243		12.0	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.02	3500.01	633334	CP-OFDM	0.0	12.50	11.05	1	1	Top	0	0.639	0.179	1.396	0.892	0.250		12.0	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.31	1	271	Bottom	0	0.000	0.000	1.315	0.000	0.000		50.3	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.34	135	0	Bottom	0	0.000	0.000	1.306	0.000	0.000		50.3	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.31	1	271	Right	0	0.053	0.014	1.315	0.070	0.018		23.0	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.34	135	0	Right	0	0.054	0.015	1.306	0.071	0.020		23.0	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.31	1	271	Left	0	0.013	0.003	1.315	0.017	0.004		29.2	
Body	NR Band n77 DoD	100	QPSK	3b	77DYD	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	12.50	11.34	135	0	Left	0	0.007	0.000	1.306	0.009	0.000		31.9	
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 10-88 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.44	1	271	Back	0	0.560	0.161	1.038	0.581	0.167		11.9	11.9
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.12	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.51	135	138	Back	0	0.390	0.121	1.021	0.398	0.124		13.6	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.34	270	0	Back	0	0.386	0.120	1.062	0.410	0.127		13.5	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.06	3500.01	633334	CP-OFDM	0.0	10.60	10.14	1	1	Back	0	0.442	0.130	1.112	0.492	0.145		12.7	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.06	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.44	1	271	Top	0	0.137	0.045	1.038	0.142	0.047		18.1	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.10	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.51	135	138	Top	0	0.114	0.037	1.021	0.116	0.038		18.9	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.44	1	271	Bottom	0	0.005	0.001	1.038	0.005	0.001		32.4	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.51	135	138	Bottom	0	0.003	0.001	1.021	0.003	0.001		34.7	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.44	1	271	Right	0	0.003	0.001	1.038	0.003	0.001		34.6	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.51	135	138	Right	0	0.002	0.000	1.021	0.002	0.000		36.5	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.44	1	271	Left	0	0.350	0.094	1.038	0.363	0.098		14.0	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	0.10	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.51	135	138	Left	0	0.257	0.068	1.021	0.262	0.069		15.4	
Body	NR Band n77 DoD	100	QPSK	4	77DYD	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	10.60	10.34	270	0	Left	0	0.227	0.060	1.062	0.241	0.064		15.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.29 NR Band n77 Standalone SAR

Table 10-89 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.20	9.96	1	1	Back	0	0.387	0.118	1.057	0.409	0.125		13.1	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.97	1	1	Back	0	0.606	0.178	1.054	0.639	0.188		11.1	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.15	3750.00	650000	DFT-s-OFDM	0.0	10.20	9.78	135	138	Back	0	0.380	0.112	1.102	0.419	0.123		13.0	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.05	135	0	Back	0	0.579	0.168	1.035	0.599	0.174		11.4	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.94	270	0	Back	0	0.586	0.162	1.062	0.622	0.172		11.2	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.97	1	1	Top	0	0.000	0.000	1.054	0.000	0.000		49.0	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.05	135	0	Top	0	0.000	0.000	1.035	0.000	0.000		49.0	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.21	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.97	1	1	Bottom	0	0.204	0.054	1.054	0.215	0.057		15.9	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	-0.18	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.05	135	0	Bottom	0	0.183	0.049	1.035	0.189	0.051		16.4	9.2
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.97	1	1	Right	0	0.000	0.000	1.054	0.000	0.000		49.0	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.05	135	0	Right	0	0.000	0.000	1.035	0.000	0.000		49.0	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	-0.12	3750.00	650000	DFT-s-OFDM	0.0	10.20	9.96	1	1	Left	0	0.596	0.149	1.057	0.630	0.157		11.2	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.97	1	1	Left	0	0.939	0.238	1.054	0.990	0.251		9.2	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	10.20	9.78	135	138	Left	0	0.580	0.143	1.102	0.639	0.158		11.1	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	10.20	10.05	135	0	Left	0	0.927	0.226	1.035	0.959	0.234		9.4	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	10.20	9.94	270	0	Left	0	0.791	0.195	1.062	0.840	0.207		9.9	
Body	NR Band n77	100	QPSK	1a	QTWR5	1:1	0.01	3930.00	662000	CP-OFDM	0.0	10.20	10.09	1	1	Left	0	0.939	0.234	1.026	0.963	0.240		9.3	
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 10-90 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.14	3750.00	650000	DFT-s-OFDM	0.0	8.00	7.88	1	271	Back	0	0.737	0.219	1.028	0.758	0.225		8.2	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.93	1	1	Back	0	0.898	0.248	1.016	0.912	0.252		7.4	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	8.00	7.98	135	0	Back	0	0.743	0.217	1.005	0.747	0.218		8.3	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.99	135	0	Back	0	0.846	0.237	1.002	0.848	0.237		7.7	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	8.00	7.92	270	0	Back	0	0.763	0.220	1.019	0.777	0.224		8.1	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.06	3930.00	662000	CP-OFDM	0.0	8.00	7.81	1	1	Back	0	0.729	0.211	1.045	0.762	0.220		8.2	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.93	1	1	Top	0	0.007	0.000	1.016	0.007	0.000		28.5	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.99	135	0	Top	0	0.006	0.000	1.002	0.006	0.000		29.2	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.93	1	1	Bottom	0	0.281	0.077	1.016	0.285	0.078		12.4	7.4
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.99	135	0	Bottom	0	0.268	0.073	1.002	0.269	0.073		12.7	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	8.00	7.88	1	271	Right	0	0.764	0.189	1.028	0.785	0.194		8.0	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.93	1	1	Right	0	0.715	0.175	1.016	0.726	0.178		8.4	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	8.00	7.98	135	0	Right	0	0.742	0.186	1.005	0.746	0.187		8.3	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.12	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.99	135	0	Right	0	0.694	0.170	1.002	0.695	0.170		8.6	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	-0.11	3750.00	650000	DFT-s-OFDM	0.0	8.00	7.92	270	0	Right	0	0.722	0.181	1.019	0.736	0.184		8.3	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.93	1	1	Left	0	0.000	0.000	1.016	0.000	0.000		46.9	
Body	NR Band n77	100	QPSK	2a	QTWR5	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	8.00	7.99	135	0	Left	0	0.001	0.000	1.002	0.001	0.000		37.0	
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 10-91 Antenna 3b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	12.50	12.09	1	137	Back	0	0.730	0.229	1.099	0.802	0.252		12.4	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.30	1	1	Back	0	0.779	0.264	1.047	0.816	0.276		12.4	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	12.50	12.14	135	0	Back	0	0.749	0.232	1.086	0.813	0.252		12.4	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.15	135	0	Back	0	0.714	0.244	1.084	0.774	0.264		12.6	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	12.50	11.96	270	0	Back	0	0.736	0.253	1.132	0.833	0.286		12.3	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	12.50	12.09	1	137	Top	0	0.900	0.247	1.099	0.989	0.271		11.5	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.30	1	1	Top	0	0.945	0.263	1.047	0.989	0.275		11.5	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.14	3750.00	650000	DFT-s-OFDM	0.0	12.50	12.14	135	0	Top	0	0.910	0.248	1.086	0.988	0.269		11.5	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.15	135	0	Top	0	0.900	0.252	1.084	0.976	0.273		11.6	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.13	3930.00	662000	DFT-s-OFDM	0.0	12.50	11.96	270	0	Top	0	0.874	0.248	1.132	0.989	0.281		11.5	11.5
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.06	3930.00	662000	CP-OFDM	0.0	12.50	12.37	1	1	Top	0	0.958	0.267	1.030	0.987	0.275	A29	11.5	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.04	3930.00	662000	CP-OFDM	0.0	12.50	12.37	1	1	Top	0	0.920	0.257	1.030	0.948	0.265		11.7	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.30	1	1	Bottom	0	0.000	0.000	1.047	0.000	0.000		51.3	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.15	135	0	Bottom	0	0.000	0.000	1.084	0.000	0.000		51.1	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.30	1	1	Right	0	0.064	0.019	1.047	0.067	0.020		23.2	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.15	135	0	Right	0	0.063	0.018	1.084	0.068	0.020		23.1	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	0.10	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.30	1	1	Left	0	0.029	0.007	1.047	0.030	0.007		26.7	
Body	NR Band n77	100	QPSK	3b	77DYD	1:1	-0.11	3930.00	662000	DFT-s-OFDM	0.0	12.50	12.15	135	0	Left	0	0.033	0.009	1.084	0.036	0.010		25.9	
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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-92 Antenna 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.52	1	271	Back	0	0.323	0.087	1.282	0.414	0.112		13.4	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.63	1	1	Back	0	0.477	0.128	1.250	0.596	0.160		11.8	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.50	135	0	Back	0	0.318	0.091	1.288	0.410	0.117		13.5	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.65	135	0	Back	0	0.545	0.152	1.245	0.679	0.189		11.3	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.06	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.55	270	0	Back	0	0.601	0.171	1.274	0.766	0.218		10.7	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.01	3930.00	662000	CP-OFDM	0.0	10.60	9.63	1	1	Back	0	0.496	0.136	1.250	0.620	0.170		11.7	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.63	1	1	Top	0	0.118	0.041	1.250	0.148	0.051		17.9	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.65	135	0	Top	0	0.131	0.043	1.245	0.163	0.054		17.5	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.63	1	1	Bottom	0	0.003	0.001	1.250	0.004	0.001		33.8	10.7
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.65	135	0	Bottom	0	0.001	0.000	1.245	0.001	0.000		38.6	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.63	1	1	Right	0	0.002	0.000	1.250	0.003	0.000		35.6	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.65	135	0	Right	0	0.000	0.000	1.245	0.000	0.000		48.6	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.16	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.52	1	271	Left	0	0.156	0.038	1.282	0.200	0.049		16.6	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.63	1	1	Left	0	0.219	0.059	1.250	0.274	0.074		15.2	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.50	135	0	Left	0	0.226	0.058	1.288	0.291	0.075		14.9	
Body	NR Band n77	100	QPSK	4	3969W	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.65	135	0	Left	0	0.321	0.081	1.245	0.400	0.101		13.6	
Body	NR Band n77	100	QPSK	4	3969W	1:1	-0.14	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.55	270	0	Left	0	0.380	0.098	1.274	0.484	0.125		12.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.30 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 Antenna 1a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	-0.01	2412.00	1	1	12.00	11.00	Back	0	V2	0.777	0.300	1.259	1.006	0.984	0.380	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	-0.17	2437.00	6	1	12.00	11.23	Back	0	V2	0.896	0.345	1.194	1.006	1.076	0.414	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.00	2462.00	11	1	12.00	11.13	Back	0	V2	0.885	0.339	1.222	1.006	1.088	0.417	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	DY14P	99.4	0.02	2462.00	11	1	12.00	11.13	Back	0	V1	0.836	0.317	1.222	1.006	1.028	0.390	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.03	2437.00	6	1	12.00	11.23	Top	0	V2	0.008	0.002	1.194	1.006	0.010	0.002	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.02	2437.00	6	1	12.00	11.23	Bottom	0	V2	0.276	0.080	1.194	1.006	0.332	0.096	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.01	2437.00	6	1	12.00	11.23	Right	0	V2	0.000	0.000	1.194	1.006	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	-0.01	2412.00	1	1	12.00	11.00	Left	0	V2	0.739	0.258	1.259	1.006	0.936	0.327	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.01	2437.00	6	1	12.00	11.23	Left	0	V2	0.810	0.279	1.194	1.006	0.973	0.335	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.13	2462.00	11	1	12.00	11.13	Left	0	V2	0.882	0.303	1.222	1.006	1.084	0.372	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	-0.15	2437.00	6	1	6.00	4.94	Back	0	V2	0.163	0.067	1.276	1.006	0.209	0.086	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	-0.01	2437.00	6	1	6.00	4.94	Bottom	0	V2	0.065	0.018	1.276	1.006	0.083	0.023	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	QQWYH	99.4	0.07	2437.00	6	1	6.00	4.94	Left	0	V2	0.215	0.071	1.276	1.006	0.276	0.091	
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 10-94 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	G62XL	99.4	0.02	2437.00	6	1	12.50	11.98	Back	0	V1	0.479	0.205	1.127	1.006	0.543	0.232	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	G62XL	99.4	0.01	2437.00	6	1	12.50	11.98	Top	0	V1	0.354	0.107	1.127	1.006	0.401	0.121	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	G62XL	99.4	-0.06	2437.00	6	1	12.50	11.98	Bottom	0	V1	0.018	0.006	1.127	1.006	0.020	0.007	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	QQWYH	99.4	0.01	2412.00	1	1	12.50	11.76	Right	0	V2	0.838	0.307	1.186	1.006	1.000	0.366	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	QQWYH	99.4	0.00	2437.00	6	1	12.50	11.78	Right	0	V2	0.854	0.313	1.180	1.006	1.014	0.372	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	G62XL	99.4	0.14	2462.00	11	1	12.50	11.89	Right	0	V1	0.855	0.310	1.151	1.006	0.990	0.359	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	QQWYH	99.4	-0.04	2462.00	11	1	12.50	11.87	Right	0	V2	0.933	0.337	1.156	1.006	1.085	0.392	A30
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	G62XL	99.4	0.01	2437.00	6	1	12.50	11.98	Left	0	V1	0.000	0.000	1.127	1.006	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	QQWYH	99.4	-0.18	2412.00	1	1	6.50	4.96	Back	0	V2	0.097	0.042	1.426	1.006	0.139	0.060	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	QQWYH	99.4	-0.02	2412.00	1	1	6.50	4.96	Top	0	V2	0.073	0.021	1.426	1.006	0.105	0.030	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	QQWYH	99.4	-0.10	2412.00	1	1	6.50	4.96	Right	0	V2	0.175	0.061	1.426	1.006	0.251	0.088	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.31 5 GHz WIFI SISO Standalone SAR

Table 10-95 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	-0.08	5290.00	58	U-NII-2A	29.3	9.75	8.82	Back	0	V1	0.791	0.230	1.239	1.052	1.031	0.300	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.02	5290.00	58	U-NII-2A	29.3	9.75	8.86	Back	0	V2	0.735	0.208	1.227	1.052	0.949	0.268	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.09	5290.00	58	U-NII-2A	29.3	9.75	8.86	Top	0	V2	0.000	0.000	1.227	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	-0.03	5290.00	58	U-NII-2A	29.3	9.75	8.86	Bottom	0	V2	0.473	0.112	1.227	1.052	0.611	0.145	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.03	5290.00	58	U-NII-2A	29.3	9.75	8.86	Right	0	V2	0.009	0.000	1.227	1.052	0.012	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.03	5290.00	58	U-NII-2A	29.3	9.75	8.86	Left	0	V2	0.054	0.006	1.227	1.052	0.070	0.008	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	-0.17	5290.00	58	U-NII-2A	29.3	3.75	2.91	Back	0	V1	0.209	0.052	1.213	1.052	0.267	0.066	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.07	5290.00	58	U-NII-2A	29.3	3.75	2.91	Bottom	0	V1	0.122	0.022	1.213	1.052	0.156	0.028	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	-0.05	5530.00	106	U-NII-2C	29.3	9.00	8.44	Back	0	V1	0.843	0.221	1.138	1.052	1.009	0.265	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	-0.19	5610.00	122	U-NII-2C	29.3	9.00	8.86	Back	0	V1	0.985	0.262	1.033	1.052	1.070	0.285	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	-0.08	5610.00	122	U-NII-2C	29.3	9.00	8.54	Back	0	V2	0.874	0.236	1.112	1.052	1.022	0.276	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.08	5690.00	138	U-NII-2C	29.3	9.00	8.23	Back	0	V1	0.833	0.220	1.194	1.052	1.046	0.276	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.08	5610.00	122	U-NII-2C	29.3	9.00	8.86	Top	0	V1	0.000	0.000	1.033	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.02	5610.00	122	U-NII-2C	29.3	9.00	8.86	Bottom	0	V1	0.534	0.121	1.033	1.052	0.580	0.131	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.04	5610.00	122	U-NII-2C	29.3	9.00	8.86	Right	0	V1	0.000	0.000	1.033	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.12	5610.00	122	U-NII-2C	29.3	9.00	8.86	Left	0	V1	0.045	0.014	1.033	1.052	0.049	0.015	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	-0.09	5610.00	122	U-NII-2C	29.3	3.00	2.27	Back	0	V1	0.205	0.042	1.183	1.052	0.255	0.052	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.01	5610.00	122	U-NII-2C	29.3	3.00	2.27	Bottom	0	V1	0.108	0.018	1.183	1.052	0.134	0.022	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	-0.05	5775.00	155	U-NII-3	29.3	9.25	8.52	Back	0	V2	0.874	0.222	1.183	1.052	1.088	0.276	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	-0.06	5775.00	155	U-NII-3	29.3	9.25	8.16	Back	0	V1	0.806	0.205	1.285	1.052	1.090	0.277	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.07	5775.00	155	U-NII-3	29.3	9.25	8.52	Top	0	V2	0.000	0.000	1.183	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.05	5775.00	155	U-NII-3	29.3	9.25	8.52	Bottom	0	V2	0.457	0.101	1.183	1.052	0.569	0.126	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.05	5775.00	155	U-NII-3	29.3	9.25	8.52	Right	0	V2	0.000	0.000	1.183	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	X750N	95.0	0.09	5775.00	155	U-NII-3	29.3	9.25	8.52	Left	0	V2	0.039	0.001	1.183	1.052	0.049	0.001	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.05	5775.00	155	U-NII-3	29.3	3.25	2.23	Back	0	V1	0.204	0.041	1.265	1.052	0.271	0.055	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	2HGJG	95.0	0.09	5775.00	155	U-NII-3	29.3	3.25	2.23	Bottom	0	V1	0.090	0.013	1.265	1.052	0.120	0.017	
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 10-96 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	H2GJG	95.0	0.01	5290.00	58	U-NII-2A	29.3	10.00	9.31	Back	0	V1	0.870	0.183	1.172	1.052	1.073	0.226	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.01	5290.00	58	U-NII-2A	29.3	10.00	9.69	Back	0	V2	0.958	0.203	1.074	1.052	1.082	0.229	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.05	5290.00	58	U-NII-2A	29.3	10.00	9.69	Top	0	V2	0.132	0.030	1.074	1.052	0.149	0.034	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.09	5290.00	58	U-NII-2A	29.3	10.00	9.69	Bottom	0	V2	0.003	0.000	1.074	1.052	0.003	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.11	5290.00	58	U-NII-2A	29.3	10.00	9.69	Right	0	V2	0.331	0.076	1.074	1.052	0.374	0.086	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.03	5290.00	58	U-NII-2A	29.3	10.00	9.69	Left	0	V2	0.000	0.000	1.074	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.03	5290.00	58	U-NII-2A	29.3	4.00	3.15	Back	0	V2	0.187	0.032	1.216	1.052	0.239	0.041	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.04	5290.00	58	U-NII-2A	29.3	4.00	3.15	Top	0	V2	0.021	0.000	1.216	1.052	0.027	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.01	5290.00	58	U-NII-2A	29.3	4.00	3.15	Right	0	V2	0.042	0.000	1.216	1.052	0.054	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.19	5530.00	106	U-NII-2C	29.3	9.50	9.39	Back	0	V2	0.992	0.209	1.026	1.052	1.071	0.226	A31
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	H2GJG	95.0	0.02	5530.00	106	U-NII-2C	29.3	9.50	8.63	Back	0	V1	0.836	0.160	1.222	1.052	1.075	0.206	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.04	5530.00	106	U-NII-2C	29.3	9.50	9.39	Back	0	V2	0.939	0.199	1.026	1.052	1.014	0.215	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.05	5610.00	122	U-NII-2C	29.3	9.50	9.40	Back	0	V2	0.930	0.190	1.023	1.052	1.001	0.204	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.01	5690.00	138	U-NII-2C	29.3	9.50	9.30	Back	0	V2	0.844	0.176	1.047	1.052	0.930	0.194	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.08	5610.00	122	U-NII-2C	29.3	9.50	9.40	Top	0	V2	0.124	0.025	1.023	1.052	0.133	0.027	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.09	5610.00	122	U-NII-2C	29.3	9.50	9.40	Bottom	0	V2	0.001	0.000	1.023	1.052	0.001	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.04	5610.00	122	U-NII-2C	29.3	9.50	9.40	Right	0	V2	0.455	0.101	1.023	1.052	0.490	0.109	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.01	5610.00	122	U-NII-2C	29.3	9.50	9.40	Left	0	V2	0.000	0.000	1.023	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	H2GJG	95.0	0.09	5530.00	106	U-NII-2C	29.3	3.50	2.82	Back	0	V1	0.197	0.031	1.169	1.052	0.242	0.038	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	H2GJG	95.0	0.05	5530.00	106	U-NII-2C	29.3	3.50	2.82	Top	0	V1	0.017	0.000	1.169	1.052	0.021	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	H2GJG	95.0	-0.20	5530.00	106	U-NII-2C	29.3	3.50	2.82	Right	0	V1	0.080	0.008	1.169	1.052	0.098	0.010	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	H2GJG	95.0	-0.07	5775.00	155	U-NII-3	29.3	9.50	8.69	Back	0	V1	0.826	0.168	1.205	1.052	1.047	0.213	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.00	5775.00	155	U-NII-3	29.3	9.50	8.70	Back	0	V2	0.861	0.165	1.202	1.052	1.089	0.209	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.03	5775.00	155	U-NII-3	29.3	9.50	8.70	Top	0	V2	0.077	0.010	1.202	1.052	0.097	0.013	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.08	5775.00	155	U-NII-3	29.3	9.50	8.70	Bottom	0	V2	0.000	0.000	1.202	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.04	5775.00	155	U-NII-3	29.3	9.50	8.70	Right	0	V2	0.447	0.099	1.202	1.052	0.565	0.125	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.03	5775.00	155	U-NII-3	29.3	9.50	8.70	Left	0	V2	0.000	0.000	1.202	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.20	5775.00	155	U-NII-3	29.3	3.50	2.65	Back	0	V2	0.164	0.020	1.216	1.052	0.210	0.026	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	0.03	5775.00	155	U-NII-3	29.3	3.50	2.65	Top	0	V2	0.011	0.000	1.216	1.052	0.014	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	X750N	95.0	-0.10	5775.00	155	U-NII-3	29.3	3.50	2.65	Right	0	V2	0.083	0.011	1.216	1.052	0.106	0.014	
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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-97 Antenna 3c

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	-0.07	5290.00	58	U-NII-2A	29.3	15.25	14.72	Back	0	V1	0.333	0.082	1.130	1.052	0.396	0.097	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	-0.02	5290.00	58	U-NII-2A	29.3	15.25	14.72	Top	0	V1	0.902	0.314	1.130	1.052	1.072	0.373	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	-0.03	5290.00	58	U-NII-2A	29.3	15.25	14.99	Top	0	V2	0.834	0.291	1.062	1.052	0.932	0.325	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.09	5290.00	58	U-NII-2A	29.3	15.25	14.72	Bottom	0	V1	0.006	0.000	1.130	1.052	0.007	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.08	5290.00	58	U-NII-2A	29.3	15.25	14.72	Right	0	V1	0.006	0.000	1.130	1.052	0.007	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	-0.12	5290.00	58	U-NII-2A	29.3	15.25	14.72	Left	0	V1	0.118	0.022	1.130	1.052	0.140	0.026	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.09	5290.00	58	U-NII-2A	29.3	9.25	8.06	Back	0	V1	0.062	0.012	1.315	1.052	0.086	0.017	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.02	5290.00	58	U-NII-2A	29.3	9.25	8.06	Top	0	V1	0.142	0.046	1.315	1.052	0.196	0.064	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.07	5290.00	58	U-NII-2A	29.3	9.25	8.06	Left	0	V1	0.014	0.000	1.315	1.052	0.019	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.08	5610.00	122	U-NII-2C	29.3	14.00	13.34	Back	0	V2	0.121	0.035	1.164	1.052	0.148	0.043	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	-0.04	5530.00	106	U-NII-2C	29.3	14.00	13.19	Top	0	V2	0.694	0.225	1.205	1.052	0.880	0.285	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	-0.05	5610.00	122	U-NII-2C	29.3	14.00	13.34	Top	0	V2	0.865	0.285	1.164	1.052	1.059	0.349	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	-0.02	5610.00	122	U-NII-2C	29.3	14.00	13.30	Top	0	V1	0.880	0.290	1.175	1.052	1.088	0.358	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.02	5690.00	138	U-NII-2C	29.3	14.00	13.08	Top	0	V2	0.782	0.256	1.236	1.052	1.017	0.333	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.01	5610.00	122	U-NII-2C	29.3	14.00	13.34	Bottom	0	V2	0.000	0.000	1.164	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.08	5610.00	122	U-NII-2C	29.3	14.00	13.34	Right	0	V2	0.001	0.000	1.164	1.052	0.001	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.07	5610.00	122	U-NII-2C	29.3	14.00	13.34	Left	0	V2	0.020	0.000	1.164	1.052	0.024	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.01	5610.00	122	U-NII-2C	29.3	8.00	7.23	Back	0	V1	0.021	0.003	1.194	1.052	0.026	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.03	5610.00	122	U-NII-2C	29.3	8.00	7.23	Top	0	V1	0.165	0.050	1.194	1.052	0.207	0.063	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	-0.03	5775.00	155	U-NII-3	29.3	13.50	13.40	Back	0	V2	0.158	0.044	1.023	1.052	0.170	0.047	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	-0.05	5775.00	155	U-NII-3	29.3	13.50	13.40	Top	0	V2	0.894	0.280	1.023	1.052	0.962	0.301	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.15	5775.00	155	U-NII-3	29.3	13.50	13.13	Top	0	V1	0.889	0.279	1.089	1.052	1.018	0.320	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.09	5775.00	155	U-NII-3	29.3	13.50	13.40	Bottom	0	V2	0.000	0.000	1.023	1.052	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.07	5775.00	155	U-NII-3	29.3	13.50	13.40	Right	0	V2	0.003	0.000	1.023	1.052	0.003	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	X750N	95.0	0.02	5775.00	155	U-NII-3	29.3	13.50	13.40	Left	0	V2	0.032	0.000	1.023	1.052	0.034	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	0.01	5775.00	155	U-NII-3	29.3	7.50	6.40	Back	0	V1	0.021	0.003	1.288	1.052	0.028	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2HGJG	95.0	-0.07	5775.00	155	U-NII-3	29.3	7.50	6.40	Top	0	V1	0.120	0.035	1.288	1.052	0.163	0.047	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.32 6 GHz WIFI SISO Standalone SAR and APD

Table 10-98 Antenna 1b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.10	6025.00	15	68.1	9.50	8.55	Back	0	V2	0.793	0.226	1.245	1.023	1.010	0.288	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	J9MG3	97.7	-0.03	6025.00	15	68.1	9.50	9.00	Back	0	V1	0.936	0.274	1.122	1.023	1.074	0.314	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.04	6345.00	79	68.1	10.50	9.79	Back	0	V2	0.753	0.211	1.178	1.023	0.907	0.254	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	-0.02	6505.00	111	68.1	10.75	8.86	Back	0	V2	0.550	0.148	1.545	1.023	0.869	0.234	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.04	6665.00	143	68.1	10.00	8.40	Back	0	V2	0.599	0.148	1.445	1.023	0.885	0.219	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.00	6985.00	207	68.1	12.00	11.65	Back	0	V2	0.810	0.205	1.084	1.023	0.898	0.227	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.04	6985.00	207	68.1	12.00	11.65	Top	0	V2	0.000	0.000	1.084	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	-0.11	6985.00	207	68.1	12.00	11.65	Bottom	0	V2	0.720	0.168	1.084	1.023	0.798	0.186	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.01	6985.00	207	68.1	12.00	11.65	Right	0	V2	0.000	0.000	1.084	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.10	6985.00	207	68.1	12.00	11.65	Left	0	V2	0.072	0.012	1.084	1.023	0.080	0.013	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	J9MG3	97.7	0.17	6985.00	207	68.1	6.00	5.18	Back	0	V1	0.242	0.058	1.208	1.023	0.299	0.072	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	J9MG3	97.7	0.03	6985.00	207	68.1	6.00	5.18	Bottom	0	V1	0.204	0.046	1.208	1.023	0.252	0.057	
ANSI/IEEE C95.1 1992 - 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]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.10	6025.00	15	68.1	9.50	8.55	Back	0	V2	5.210	1.245	1.023	6.636	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	J9MG3	97.7	-0.03	6025.00	15	68.1	9.50	9.00	Back	0	V1	6.290	1.122	1.023	7.220	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.04	6345.00	79	68.1	10.50	9.79	Back	0	V2	4.830	1.178	1.023	5.821	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	-0.02	6505.00	111	68.1	10.75	8.86	Back	0	V2	3.420	1.545	1.023	5.405	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.04	6665.00	143	68.1	10.00	8.40	Back	0	V2	3.470	1.445	1.023	5.129	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.00	6985.00	207	68.1	12.00	11.65	Back	0	V2	4.770	1.084	1.023	5.290	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.04	6985.00	207	68.1	12.00	11.65	Top	0	V2	0.005	1.084	1.023	0.006	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	-0.11	6985.00	207	68.1	12.00	11.65	Bottom	0	V2	3.920	1.084	1.023	4.347	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.01	6985.00	207	68.1	12.00	11.65	Right	0	V2	0.011	1.084	1.023	0.012	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	XLN9M	97.7	0.10	6985.00	207	68.1	12.00	11.65	Left	0	V2	0.283	1.084	1.023	0.314	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	J9MG3	97.7	0.17	6985.00	207	68.1	6.00	5.18	Back	0	V1	1.350	1.208	1.023	1.668	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	J9MG3	97.7	0.03	6985.00	207	68.1	6.00	5.18	Bottom	0	V1	1.070	1.208	1.023	1.322	

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-99 Antenna 3a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.02	6025.00	15	68.1	8.50	8.37	Back	0	V2	0.971	0.201	1.030	1.023	1.023	0.212	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	0.01	6345.00	79	68.1	8.00	7.99	Back	0	V2	1.040	0.216	1.002	1.023	1.066	0.221	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	0.05	6345.00	79	68.1	8.00	7.83	Back	0	V1	1.010	0.210	1.040	1.023	1.075	0.223	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.03	6505.00	111	68.1	8.25	8.18	Back	0	V2	0.985	0.204	1.016	1.023	1.024	0.212	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.05	6665.00	143	68.1	7.50	7.47	Back	0	V2	0.980	0.202	1.007	1.023	1.010	0.208	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.04	6985.00	207	68.1	8.00	7.28	Back	0	V2	0.791	0.160	1.180	1.023	0.955	0.193	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.14	6025.00	15	68.1	8.50	8.37	Top	0	V2	0.149	0.040	1.030	1.023	0.157	0.042	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	0.02	6025.00	15	68.1	8.50	8.37	Bottom	0	V2	0.003	0.001	1.030	1.023	0.003	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.17	6025.00	15	68.1	8.50	8.37	Right	0	V2	0.556	0.131	1.030	1.023	0.586	0.138	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	0.07	6025.00	15	68.1	8.50	8.37	Left	0	V2	0.001	0.000	1.030	1.023	0.001	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	-0.14	6025.00	15	68.1	2.50	1.98	Back	0	V1	0.199	0.040	1.127	1.023	0.229	0.046	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	0.01	6025.00	15	68.1	2.50	1.98	Top	0	V1	0.045	0.015	1.127	1.023	0.052	0.017	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	0.07	6025.00	15	68.1	2.50	1.98	Right	0	V1	0.110	0.026	1.127	1.023	0.127	0.030	
ANSI/IEEE C95.1 1992 - 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]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.02	6025.00	15	68.1	8.50	8.37	Back	0	V2	4.850	1.030	1.023	5.110	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	0.01	6345.00	79	68.1	8.00	7.99	Back	0	V2	5.200	1.002	1.023	5.330	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	0.05	6345.00	79	68.1	8.00	7.83	Back	0	V1	5.040	1.040	1.023	5.362	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.03	6505.00	111	68.1	8.25	8.18	Back	0	V2	4.900	1.016	1.023	5.093	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.05	6665.00	143	68.1	7.50	7.47	Back	0	V2	4.860	1.007	1.023	5.007	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.04	6985.00	207	68.1	8.00	7.28	Back	0	V2	3.870	1.180	1.023	4.672	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.14	6025.00	15	68.1	8.50	8.37	Top	0	V2	0.933	1.030	1.023	0.983	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	0.02	6025.00	15	68.1	8.50	8.37	Bottom	0	V2	0.030	1.030	1.023	0.032	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	-0.17	6025.00	15	68.1	8.50	8.37	Right	0	V2	3.080	1.030	1.023	3.245	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XLN9M	97.7	0.07	6025.00	15	68.1	8.50	8.37	Left	0	V2	0.012	1.030	1.023	0.013	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	-0.14	6025.00	15	68.1	2.50	1.98	Back	0	V1	0.972	1.127	1.023	1.121	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	0.01	6025.00	15	68.1	2.50	1.98	Top	0	V1	0.353	1.127	1.023	0.407	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	J9MG3	97.7	0.07	6025.00	15	68.1	2.50	1.98	Right	0	V1	0.613	1.127	1.023	0.707	

Table 10-100 Antenna 3c

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.01	6025.00	15	68.1	13.25	13.13	Back	0	V2	0.129	0.044	1.028	1.023	0.136	0.046	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6025.00	15	68.1	13.25	13.13	Top	0	V2	1.030	0.331	1.028	1.023	1.083	0.348	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	J9MG3	97.7	0.00	6025.00	15	68.1	13.25	13.06	Top	0	V1	1.010	0.320	1.045	1.023	1.080	0.342	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6345.00	79	68.1	12.75	12.25	Top	0	V2	0.930	0.282	1.122	1.023	1.067	0.324	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6505.00	111	68.1	12.75	12.73	Top	0	V2	1.050	0.310	1.005	1.023	1.080	0.319	A32
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.07	6505.00	111	68.1	12.75	12.73	Top	0	V2	1.040	0.308	1.005	1.023	1.069	0.317	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.02	6665.00	143	68.1	12.00	11.73	Top	0	V2	0.962	0.282	1.064	1.023	1.047	0.307	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.03	6985.00	207	68.1	11.75	11.70	Top	0	V2	1.040	0.288	1.012	1.023	1.077	0.298	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6025.00	15	68.1	13.25	13.13	Bottom	0	V2	0.011	0.004	1.028	1.023	0.012	0.004	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.05	6025.00	15	68.1	13.25	13.13	Right	0	V2	0.014	0.003	1.028	1.023	0.015	0.003	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.07	6025.00	15	68.1	13.25	13.13	Left	0	V2	0.021	0.004	1.028	1.023	0.022	0.004	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.01	6025.00	15	68.1	7.25	6.67	Back	0	V2	0.015	0.005	1.143	1.023	0.018	0.006	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.15	6025.00	15	68.1	7.25	6.67	Top	0	V2	0.147	0.046	1.143	1.023	0.172	0.054	
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

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.01	6025.00	15	68.1	13.25	13.13	Back	0	V2	0.981	1.028	1.023	1.032
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6025.00	15	68.1	13.25	13.13	Top	0	V2	7.570	1.028	1.023	7.961
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	J9MG3	97.7	0.00	6025.00	15	68.1	13.25	13.06	Top	0	V1	7.350	1.045	1.023	7.857
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6345.00	79	68.1	12.75	12.25	Top	0	V2	6.480	1.122	1.023	7.438
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6505.00	111	68.1	12.75	12.73	Top	0	V2	7.150	1.005	1.023	7.351
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.07	6505.00	111	68.1	12.75	12.73	Top	0	V2	7.110	1.005	1.023	7.310
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.02	6665.00	143	68.1	12.00	11.73	Top	0	V2	6.500	1.064	1.023	7.075
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.03	6985.00	207	68.1	11.75	11.70	Top	0	V2	6.680	1.012	1.023	6.916
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.04	6025.00	15	68.1	13.25	13.13	Bottom	0	V2	0.094	1.028	1.023	0.099
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.05	6025.00	15	68.1	13.25	13.13	Right	0	V2	0.071	1.028	1.023	0.075
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.07	6025.00	15	68.1	13.25	13.13	Left	0	V2	0.093	1.028	1.023	0.098
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	0.01	6025.00	15	68.1	7.25	6.67	Back	0	V2	0.111	1.143	1.023	0.130
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	XLN9M	97.7	-0.15	6025.00	15	68.1	7.25	6.67	Top	0	V2	1.070	1.143	1.023	1.251

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.33 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-101 Antenna 1a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	0.02	2402.00	0	1	13.00	12.42	Back	0	V2	0.907	0.353	1.143	1.006	1.043	0.406	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	0.01	2402.00	0	1	13.00	12.26	Back	0	V1	0.913	0.342	1.186	1.006	1.090	0.408	A33
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	0.04	2441.00	39	1	13.00	12.15	Back	0	V2	0.850	0.324	1.216	1.006	1.040	0.397	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	0.01	2480.00	78	1	13.00	12.10	Back	0	V2	0.839	0.318	1.230	1.006	1.039	0.394	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	0.18	2402.00	0	1	13.00	12.42	Top	0	V2	0.015	0.006	1.143	1.006	0.017	0.007	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	0.05	2402.00	0	1	13.00	12.42	Bottom	0	V2	0.337	0.100	1.143	1.006	0.388	0.115	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	0.06	2402.00	0	1	13.00	12.42	Right	0	V2	0.000	0.000	1.143	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	-0.12	2402.00	0	1	13.00	12.42	Left	0	V2	0.832	0.286	1.143	1.006	0.957	0.329	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	-0.03	2441.00	39	1	13.00	12.15	Left	0	V2	0.779	0.266	1.216	1.006	0.953	0.326	
Body	2.4 GHz Bluetooth	FHSS	1a	2KN7Q	77.0	-0.04	2480.00	78	1	13.00	12.10	Left	0	V2	0.810	0.279	1.230	1.006	1.003	0.345	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	-0.21	2480.00	78	1	8.50	8.22	Back	0	V1	0.433	0.158	1.067	1.006	0.465	0.170	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	-0.13	2480.00	78	1	8.50	8.22	Bottom	0	V1	0.108	0.031	1.067	1.006	0.116	0.033	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	0.03	2480.00	78	1	8.50	8.22	Left	0	V1	0.326	0.118	1.067	1.006	0.350	0.127	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	-0.04	2480.00	78	1	6.00	5.18	Back	0	V1	0.211	0.077	1.208	1.006	0.257	0.094	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	-0.02	2480.00	78	1	6.00	5.18	Bottom	0	V1	0.053	0.014	1.208	1.006	0.064	0.017	
Body	2.4 GHz Bluetooth	FHSS	1a	2HGJG	77.0	-0.09	2480.00	78	1	6.00	5.18	Left	0	V1	0.140	0.051	1.208	1.006	0.170	0.062	
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 the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-102 Antenna 3a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.07	2402.00	0	1	13.00	12.63	Back	0	V2	0.417	0.184	1.089	1.006	0.457	0.202	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.19	2402.00	0	1	13.00	12.63	Top	0	V2	0.311	0.092	1.089	1.006	0.341	0.101	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	-0.11	2402.00	0	1	13.00	12.63	Bottom	0	V2	0.015	0.006	1.089	1.006	0.016	0.007	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	-0.05	2402.00	0	1	13.00	12.63	Right	0	V2	0.889	0.321	1.089	1.006	0.974	0.352	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.03	2441.00	39	1	13.00	12.32	Right	0	V2	0.863	0.308	1.169	1.006	1.015	0.362	
Body	2.4 GHz Bluetooth	FHSS	3a	6PGJC	77.0	-0.05	2441.00	39	1	13.00	12.25	Right	0	V1	0.847	0.304	1.189	1.006	1.014	0.364	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.00	2480.00	78	1	13.00	12.51	Right	0	V2	0.884	0.319	1.119	1.006	0.996	0.359	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	-0.13	2402.00	0	1	13.00	12.63	Left	0	V2	0.000	0.000	1.089	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.00	2441.00	39	1	8.50	7.87	Back	0	V2	0.184	0.083	1.156	1.006	0.214	0.097	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	-0.12	2441.00	39	1	8.50	7.87	Top	0	V2	0.131	0.039	1.156	1.006	0.152	0.045	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	-0.04	2441.00	39	1	8.50	7.87	Right	0	V2	0.457	0.165	1.156	1.006	0.532	0.192	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.05	2441.00	39	1	6.00	5.40	Back	0	V2	0.104	0.045	1.148	1.006	0.120	0.052	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.09	2441.00	39	1	6.00	5.40	Top	0	V2	0.069	0.020	1.148	1.006	0.080	0.023	
Body	2.4 GHz Bluetooth	FHSS	3a	QQWYH	77.0	0.02	2441.00	39	1	6.00	5.40	Right	0	V2	0.271	0.097	1.148	1.006	0.313	0.112	
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 the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

10.34 802.15.4 SISO Standalone SAR

Table 10-103 Antenna 1a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	1a	2HGJG	-0.02	2405.00	11	13.00	11.11	Back	0	V1	0.957	0.342	1.545	0.887	0.317	
Body	802.15.4	1a	XLN9M	-0.02	2405.00	11	13.00	11.06	Back	0	V2	0.928	0.339	1.563	0.870	0.318	
Body	802.15.4	1a	2HGJG	0.00	2440.00	18	13.00	11.25	Back	0	V1	0.949	0.346	1.496	0.852	0.311	
Body	802.15.4	1a	2HGJG	0.01	2475.00	25	13.00	11.15	Back	0	V1	0.857	0.307	1.531	0.787	0.282	
Body	802.15.4	1a	2HGJG	-0.14	2440.00	18	13.00	11.25	Top	0	V1	0.018	0.007	1.496	0.016	0.006	
Body	802.15.4	1a	2HGJG	0.04	2440.00	18	13.00	11.25	Bottom	0	V1	0.348	0.101	1.496	0.312	0.091	
Body	802.15.4	1a	2HGJG	0.04	2440.00	18	13.00	11.25	Right	0	V1	0.000	0.000	1.496	0.000	0.000	
Body	802.15.4	1a	2HGJG	-0.01	2440.00	18	13.00	11.25	Left	0	V1	0.814	0.267	1.496	0.731	0.240	
Body	802.15.4	1a	2HGJG	-0.02	2475.00	25	8.50	7.73	Back	0	V1	0.302	0.114	1.194	0.216	0.082	
Body	802.15.4	1a	2HGJG	-0.02	2475.00	25	8.50	7.73	Bottom	0	V1	0.111	0.033	1.194	0.080	0.024	
Body	802.15.4	1a	2HGJG	-0.06	2475.00	25	8.50	7.73	Left	0	V1	0.283	0.094	1.194	0.203	0.067	
Body	802.15.4	1a	2HGJG	-0.02	2475.00	25	6.00	5.31	Back	0	V1	0.178	0.066	1.172	0.125	0.046	
Body	802.15.4	1a	2HGJG	0.03	2475.00	25	6.00	5.31	Bottom	0	V1	0.059	0.017	1.172	0.041	0.012	
Body	802.15.4	1a	2HGJG	0.00	2475.00	25	6.00	5.31	Left	0	V1	0.161	0.053	1.172	0.113	0.037	
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: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-104 Antenna 3a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	3a	6PGJC	0.00	2405.00	11	13.50	13.17	Back	0	V1	0.738	0.321	1.079	0.478	0.208	
Body	802.15.4	3a	6PGJC	0.08	2405.00	11	13.50	13.17	Top	0	V1	0.499	0.146	1.079	0.323	0.095	
Body	802.15.4	3a	6PGJC	-0.07	2405.00	11	13.50	13.17	Bottom	0	V1	0.027	0.011	1.079	0.017	0.007	
Body	802.15.4	3a	6PGJC	0.02	2405.00	11	13.50	13.17	Right	0	V1	1.200	0.443	1.079	0.777	0.287	
Body	802.15.4	3a	6PGJC	0.02	2440.00	18	13.50	12.70	Right	0	V1	1.190	0.434	1.202	0.858	0.313	
Body	802.15.4	3a	XLN9M	0.07	2475.00	25	13.50	12.48	Right	0	V2	1.180	0.419	1.265	0.896	0.318	
Body	802.15.4	3a	6PGJC	0.04	2475.00	25	13.50	12.60	Right	0	V1	1.360	0.490	1.230	1.004	0.362	A34
Body	802.15.4	3a	6PGJC	-0.01	2475.00	25	13.50	12.60	Right	0	V1	1.150	0.416	1.230	0.849	0.307	
Body	802.15.4	3a	6PGJC	0.09	2405.00	11	13.50	13.17	Left	0	V1	0.000	0.000	1.079	0.000	0.000	
Body	802.15.4	3a	6PGJC	0.01	2475.00	25	9.00	8.05	Back	0	V1	0.344	0.150	1.245	0.257	0.112	
Body	802.15.4	3a	6PGJC	-0.10	2475.00	25	9.00	8.05	Top	0	V1	0.245	0.075	1.245	0.183	0.056	
Body	802.15.4	3a	6PGJC	-0.03	2475.00	25	9.00	8.05	Right	0	V1	0.717	0.252	1.245	0.536	0.188	
Body	802.15.4	3a	6PGJC	0.03	2405.00	11	6.50	5.30	Back	0	V1	0.239	0.105	1.318	0.189	0.083	
Body	802.15.4	3a	6PGJC	-0.01	2405.00	11	6.50	5.30	Top	0	V1	0.171	0.052	1.318	0.135	0.041	
Body	802.15.4	3a	6PGJC	-0.02	2405.00	11	6.50	5.30	Right	0	V1	0.437	0.153	1.318	0.346	0.121	
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

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

10.35 NB UNII SISO Standalone SAR

Table 10-105 Antenna 1b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	0.12	5245.00	High	4	10.50	10.17	Back	0	V1	0.983	0.286	1.079	1.075	0.313	A35
Body	NB U-NII 1	FHSS	1b	Q26LF	76.5	0.05	5245.00	High	4	10.50	9.89	Back	0	V2	0.762	0.234	1.151	0.889	0.273	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	0.07	5245.00	High	4	10.50	10.17	Back	0	V1	0.880	0.268	1.079	0.962	0.293	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	-0.07	5162.00	Low	4	10.50	9.41	Back	0	V1	0.776	0.221	1.285	1.010	0.288	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	-0.15	5204.00	Mid	4	10.50	9.44	Back	0	V1	0.766	0.223	1.276	0.990	0.288	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	0.04	5245.00	High	4	10.50	10.17	Top	0	V1	0.000	0.000	1.079	0.000	0.000	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	0.03	5245.00	High	4	10.50	10.17	Bottom	0	V1	0.474	0.108	1.079	0.518	0.118	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	0.03	5245.00	High	4	10.50	10.17	Right	0	V1	0.005	0.000	1.079	0.005	0.000	
Body	NB U-NII 1	FHSS	1b	VWY0X	76.5	0.01	5245.00	High	4	10.50	10.17	Left	0	V1	0.049	0.004	1.079	0.054	0.004	
Body	NB U-NII 1	FHSS	1b	VWY0X	77.0	0.02	5245.00	High	1	6.00	4.69	Back	0	V1	0.223	0.061	1.352	0.303	0.083	
Body	NB U-NII 1	FHSS	1b	VWY0X	77.0	-0.05	5245.00	High	1	6.00	4.69	Bottom	0	V1	0.146	0.033	1.352	0.199	0.045	
Body	NB U-NII 1	FHSS	1b	VWY0X	77.0	-0.17	5245.00	High	1	3.50	2.17	Back	0	V1	0.106	0.028	1.358	0.145	0.038	
Body	NB U-NII 1	FHSS	1b	VWY0X	77.0	0.05	5245.00	High	1	3.50	2.17	Bottom	0	V1	0.074	0.014	1.358	0.101	0.019	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.03	5844.00	High	1	10.50	9.56	Back	0	V1	0.868	0.225	1.242	1.085	0.281	
Body	NB U-NII 3	FHSS	1b	Q26LF	77.0	0.07	5844.00	High	1	10.50	9.85	Back	0	V2	0.812	0.208	1.161	0.949	0.243	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.03	5844.00	High	1	10.50	9.56	Back	0	V1	0.796	0.213	1.242	0.995	0.266	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	-0.04	5733.00	Low	1	10.50	10.07	Back	0	V1	0.960	0.237	1.104	1.067	0.263	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	-0.09	5733.00	Low	1	10.50	10.00	Back	0	V1	0.882	0.229	1.122	0.996	0.259	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.14	5789.00	Mid	1	10.50	9.65	Back	0	V1	0.795	0.212	1.216	0.973	0.259	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.05	5733.00	Low	1	10.50	10.07	Top	0	V1	0.000	0.000	1.104	0.000	0.000	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	-0.12	5733.00	Low	1	10.50	10.07	Bottom	0	V1	0.525	0.122	1.104	0.583	0.136	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.09	5733.00	Low	1	10.50	10.07	Right	0	V1	0.004	0.000	1.104	0.004	0.000	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.08	5733.00	Low	1	10.50	10.07	Left	0	V1	0.041	0.000	1.104	0.046	0.000	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	-0.15	5733.00	Low	1	6.00	4.40	Back	0	V1	0.228	0.053	1.445	0.332	0.077	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	-0.01	5733.00	Low	1	6.00	4.40	Bottom	0	V1	0.139	0.024	1.445	0.202	0.035	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.03	5733.00	Low	1	3.50	2.42	Back	0	V1	0.184	0.041	1.282	0.237	0.053	
Body	NB U-NII 3	FHSS	1b	VWY0X	77.0	0.01	5733.00	Low	1	3.50	2.42	Bottom	0	V1	0.087	0.015	1.282	0.112	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								

Note: Blue entry represents variability measurement

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 10-106 Antenna 3a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	3a	VWY0X	76.5	-0.02	5204.00	Mid	4	12.50	11.45	Back	0	V1	0.461	0.103	1.274	0.595	0.133	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	0.14	5204.00	Mid	4	12.50	11.70	Back	0	V2	0.491	0.111	1.202	0.598	0.135	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	0.09	5204.00	Mid	4	12.50	11.70	Top	0	V2	0.050	0.007	1.202	0.061	0.009	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	0.05	5204.00	Mid	4	12.50	11.70	Bottom	0	V2	0.000	0.000	1.202	0.000	0.000	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	-0.11	5204.00	Mid	4	12.50	11.70	Right	0	V2	0.355	0.075	1.202	0.432	0.091	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	0.03	5204.00	Mid	4	12.50	11.70	Left	0	V2	0.000	0.000	1.202	0.000	0.000	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	-0.10	5245.00	High	4	10.50	9.57	Back	0	V2	0.235	0.045	1.239	0.295	0.056	
Body	NB U-NII 1	FHSS	3a	QQWYH	76.5	0.08	5245.00	High	4	10.50	9.57	Right	0	V2	0.217	0.036	1.239	0.272	0.045	
Body	NB U-NII 1	FHSS	3a	QQWYH	77.0	0.14	5245.00	High	1	8.00	7.93	Back	0	V2	0.131	0.025	1.016	0.134	0.026	
Body	NB U-NII 1	FHSS	3a	QQWYH	77.0	0.09	5245.00	High	1	8.00	7.93	Right	0	V2	0.097	0.018	1.016	0.099	0.018	
Body	NB U-NII 3	FHSS	3a	QQWYH	77.0	-0.09	5844.00	High	1	12.50	11.94	Back	0	V2	0.854	0.185	1.138	0.978	0.212	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	-0.13	5844.00	High	1	12.50	11.68	Back	0	V1	0.892	0.197	1.208	1.085	0.240	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	-0.06	5733.00	Low	1	12.50	11.86	Back	0	V1	0.783	0.167	1.159	0.913	0.195	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	-0.14	5789.00	Mid	1	12.50	11.78	Back	0	V1	0.812	0.173	1.180	0.964	0.205	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.03	5733.00	Low	1	12.50	11.86	Top	0	V1	0.155	0.030	1.159	0.181	0.035	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.01	5733.00	Low	1	12.50	11.86	Bottom	0	V1	0.000	0.000	1.159	0.000	0.000	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	-0.13	5733.00	Low	1	12.50	11.86	Right	0	V1	0.543	0.109	1.159	0.633	0.127	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.02	5733.00	Low	1	12.50	11.86	Left	0	V1	0.000	0.000	1.159	0.000	0.000	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	-0.08	5733.00	Low	1	8.00	6.45	Back	0	V1	0.206	0.041	1.429	0.296	0.059	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.02	5733.00	Low	1	8.00	6.45	Top	0	V1	0.070	0.012	1.429	0.101	0.017	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.13	5733.00	Low	1	8.00	6.45	Right	0	V1	0.134	0.023	1.429	0.193	0.033	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.09	5733.00	Low	1	5.50	4.48	Back	0	V1	0.122	0.014	1.265	0.155	0.018	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.09	5733.00	Low	1	5.50	4.48	Top	0	V1	0.019	0.000	1.265	0.024	0.000	
Body	NB U-NII 3	FHSS	3a	VWY0X	77.0	0.03	5733.00	Low	1	5.50	4.48	Right	0	V1	0.100	0.006	1.265	0.127	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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-107 Antenna 3c

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	3c	QQWYH	77.0	0.00	5162.00	Low	8	13.50	12.56	Back	0	V2	0.076	0.010	1.242	0.095	0.013	
Body	NB U-NII 1	FHSS	3c	QQWYH	77.0	0.04	5245.00	High	8	13.50	12.51	Top	0	V2	0.354	0.118	1.256	0.448	0.149	
Body	NB U-NII 1	FHSS	3c	VWY0X	77.0	-0.02	5245.00	High	8	13.50	12.39	Top	0	V1	0.340	0.109	1.291	0.442	0.142	
Body	NB U-NII 1	FHSS	3c	QQWYH	77.0	-0.16	5162.00	Low	8	13.50	12.56	Top	0	V2	0.333	0.114	1.242	0.416	0.143	
Body	NB U-NII 1	FHSS	3c	QQWYH	77.0	-0.04	5204.00	Mid	8	13.50	12.44	Top	0	V2	0.348	0.116	1.276	0.447	0.149	
Body	NB U-NII 1	FHSS	3c	QQYWH	77.0	0.07	5162.00	Low	8	13.50	12.56	Bottom	0	V2	0.000	0.000	1.242	0.000	0.000	
Body	NB U-NII 1	FHSS	3c	QQYWH	77.0	0.03	5162.00	Low	8	13.50	12.56	Right	0	V2	0.000	0.000	1.242	0.000	0.000	
Body	NB U-NII 1	FHSS	3c	QQYWH	77.0	0.14	5162.00	Low	8	13.50	12.56	Left	0	V2	0.000	0.000	1.242	0.000	0.000	
Body	NB U-NII 1	FHSS	3c	QQWYH	76.5	-0.11	5204.00	Mid	4	12.50	11.40	Top	0	V2	0.250	0.083	1.288	0.326	0.108	
Body	NB U-NII 1	FHSS	3c	QQWYH	77.0	0.02	5162.00	Low	1	10.00	9.02	Top	0	V2	0.129	0.039	1.253	0.163	0.049	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.07	5733.00	Low	1	13.50	12.55	Back	0	V2	0.047	0.008	1.245	0.059	0.010	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.03	5844.00	High	1	13.50	12.52	Top	0	V2	0.396	0.115	1.253	0.499	0.145	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.05	5733.00	Low	1	13.50	12.55	Top	0	V2	0.460	0.145	1.245	0.576	0.182	
Body	NB U-NII 3	FHSS	3c	VWY0X	77.0	0.00	5733.00	Low	1	13.50	12.71	Top	0	V1	0.474	0.144	1.199	0.572	0.174	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	-0.03	5789.00	Mid	1	13.50	12.54	Top	0	V2	0.435	0.135	1.247	0.546	0.169	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.07	5733.00	Low	1	13.50	12.55	Bottom	0	V2	0.000	0.000	1.245	0.000	0.000	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.02	5733.00	Low	1	13.50	12.55	Right	0	V2	0.000	0.000	1.245	0.000	0.000	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.03	5733.00	Low	1	13.50	12.55	Left	0	V2	0.000	0.000	1.245	0.000	0.000	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	-0.15	5789.00	Mid	1	11.50	10.73	Top	0	V2	0.271	0.076	1.194	0.326	0.091	
Body	NB U-NII 3	FHSS	3c	QQYWH	77.0	0.03	5844.00	High	1	9.00	8.17	Top	0	V2	0.139	0.032	1.211	0.169	0.039	
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 the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.36 wPT Standalone SAR

Table 10-108 Antenna wPT

Exposure	Band / Mode	Service / Modulation	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Plot #
Body	wPT	CW	H59RP	0.17	13.60	Back	0	0.034	0.008	A36
Body	wPT	CW	H59RP	0.02	13.60	Top	0	0.000	0.000	
Body	wPT	CW	H59RP	0.01	13.60	Bottom	0	0.000	0.000	
Body	wPT	CW	H59RP	0.03	13.60	Right	0	0.003	0.000	
Body	wPT	CW	H59RP	0.01	13.60	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram				

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

10.37 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 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device uses Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a $4cm^2$ averaging area is reported based on SAR measurements.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR were not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure condition. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 7, LTE Band 41, and LTE Band 48, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.
10. This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

NR Notes:

1. NR implementation supports SA and NSA modes. NR implementation in EN-DC mode operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for NR n77 C 1g evaluations, > 0.6 W/kg for NR n41 and n48 1g evaluations, and > 0.8 W/kg for NR n77 DoD, testing at the other channels was required for such test configurations.
3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 and Power Class 3 operations is 100.0 %. Per FCC Guidance, all SAR tests were performed using Power Class 2.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

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 7.6.4 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 7.6.5 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/NB-UNII SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 8.14 and 8.22 for the time domain plot and calculation for the duty factor of the device.

802.15.4

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 8.17 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%.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

10.38 Power Density Data

MEASUREMENT RESULTS																								
Frequency (MHz)	Channel	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	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	9.50	8.55	-0.14	2	Ant 1b	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.245	1.023	2.170	4.295	2.440	4.829	
6345	79	802.11ax	OFDM	160	10.50	9.79	0.09	2	Ant 1b	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.178	1.023	2.760	5.169	3.000	5.618	
6505	111	802.11ax	OFDM	160	10.75	8.86	0.04	2	Ant 1b	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.545	1.023	2.180	5.354	2.730	6.705	
6665	143	802.11ax	OFDM	160	10.00	8.40	0.11	2	Ant 1b	V2	XLN9M	68.1	Back	97.7	0.25	2.150	1.554	1.445	1.023	2.760	6.340	2.930	6.731	
6985	207	802.11ax	OFDM	160	12.00	11.65	-0.12	2	Ant 1b	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.084	1.023	2.520	4.343	2.910	5.015	
6985	207	802.11ax	OFDM	160	12.00	11.65	0.06	2	Ant 1b	V2	XLN9M	68.1	Top	97.7	0.25	-	1.554	1.000	1.023	0.174	0.277	0.185	0.294	
6985	207	802.11ax	OFDM	160	12.00	11.65	0.04	2	Ant 1b	V2	XLN9M	68.1	Bottom	97.7	0.25	-	1.554	1.000	1.023	0.752	1.195	1.250	1.987	
6985	207	802.11ax	OFDM	160	12.00	11.65	0.05	2	Ant 1b	V2	XLN9M	68.1	Left	97.7	0.25	-	1.554	1.000	1.023	0.164	0.261	0.194	0.308	
6985	207	802.11ax	OFDM	160	12.00	11.65	0.05	2	Ant 1b	V2	XLN9M	68.1	Right	97.7	0.25	-	1.554	1.000	1.023	0.356	0.566	0.376	0.598	
6665	143	802.11ax	OFDM	160	10.00	8.40	-0.12	9	Ant 1b	V2	XLN9M	68.1	Back	97.7	0.25	0.728	1.554	1.445	1.023	0.423	0.972	0.488	1.121	
6665	143	802.11ax	OFDM	160	10.00	8.60	-0.09	2	Ant 1b	V1	J9MG3	68.1	Back	97.7	0.25	-	1.554	1.380	1.023	2.590	5.682	2.850	6.252	
6025	15	802.11ax	OFDM	160	8.50	8.37	-0.02	2	Ant 3a	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.030	1.023	2.880	4.716	3.300	5.404	
6345	79	802.11ax	OFDM	160	8.00	7.99	-0.02	2	Ant 3a	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.002	1.023	1.980	3.154	2.880	4.588	
6505	111	802.11ax	OFDM	160	8.25	8.18	-0.11	2	Ant 3a	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.016	1.023	1.510	2.439	2.960	4.781	
6665	143	802.11ax	OFDM	160	7.50	7.47	-0.03	2	Ant 3a	V2	XLN9M	68.1	Back	97.7	0.25	3.930	1.554	1.007	1.023	2.400	3.842	3.440	5.507	
6985	207	802.11ax	OFDM	160	8.00	7.28	-0.02	2	Ant 3a	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.180	1.023	2.030	3.808	2.380	4.465	
6025	15	802.11ax	OFDM	160	8.50	8.37	-0.06	2	Ant 3a	V2	XLN9M	68.1	Top	97.7	0.25	-	1.554	1.030	1.023	0.721	1.181	0.831	1.361	
6025	15	802.11ax	OFDM	160	8.50	8.37	0.18	2	Ant 3a	V2	XLN9M	68.1	Botiom	97.7	0.25	-	1.554	1.030	1.023	0.584	0.956	0.596	0.976	
6025	15	802.11ax	OFDM	160	8.50	8.37	0.10	2	Ant 3a	V2	XLN9M	68.1	Left	97.7	0.25	-	1.554	1.030	1.023	0.285	0.467	0.294	0.481	
6025	15	802.11ax	OFDM	160	8.50	8.37	0.05	2	Ant 3a	V2	XLN9M	68.1	Right	97.7	0.25	-	1.554	1.030	1.023	1.340	2.194	1.840	3.013	
6665	143	802.11ax	OFDM	160	7.50	7.38	-0.01	2	Ant 3a	V1	J9MG3	68.1	Back	97.7	0.25	-	1.554	1.028	1.023	2.530	4.135	3.480	5.687	
6665	143	802.11ax	OFDM	160	7.50	7.47	0.15	9	Ant 3a	V2	XLN9M	68.1	Back	97.7	0.25	1.160	1.554	1.007	1.023	0.996	1.594	1.070	1.713	
6025	15	802.11ax	OFDM	160	13.25	13.13	0.03	2	Ant 3c	V2	XLN9M	68.1	Top	97.7	0.25	-	1.554	1.028	1.023	2.250	3.677	2.890	4.723	
6345	79	802.11ax	OFDM	160	12.75	12.25	-0.04	2	Ant 3c	V2	XLN9M	68.1	Top	97.7	0.25	2.850	1.554	1.122	1.023	2.690	4.798	3.510	6.261	
6505	111	802.11ax	OFDM	160	12.75	12.73	0.05	2	Ant 3c	V2	XLN9M	68.1	Top	97.7	0.25	-	1.554	1.005	1.023	2.440	3.898	3.420	5.464	
6665	143	802.11ax	OFDM	160	12.00	11.73	-0.02	2	Ant 3c	V2	XLN9M	68.1	Top	97.7	0.25	-	1.554	1.064	1.023	2.420	4.093	3.600	6.089	
6985	207	802.11ax	OFDM	160	11.75	11.70	-0.09	2	Ant 3c	V2	XLN9M	68.1	Top	97.7	0.25	-	1.554	1.012	1.023	2.820	4.537	3.860	6.210	A37
6025	15	802.11ax	OFDM	160	13.25	13.13	0.17	2	Ant 3c	V2	XLN9M	68.1	Back	97.7	0.25	-	1.554	1.028	1.023	0.755	1.234	0.829	1.355	
6025	15	802.11ax	OFDM	160	13.25	13.13	-0.06	2	Ant 3c	V2	XLN9M	68.1	Bottom	97.7	0.25	-	1.554	1.028	1.023	0.157	0.257	0.171	0.279	
6025	15	802.11ax	OFDM	160	13.25	13.13	0.12	2	Ant 3c	V2	XLN9M	68.1	Left	97.7	0.25	-	1.554	1.028	1.023	0.783	1.280	0.903	1.476	
6025	15	802.11ax	OFDM	160	13.25	13.13	-0.02	2	Ant 3c	V2	XLN9M	68.1	Right	97.7	0.25	-	1.554	1.028	1.023	0.266	0.435	0.347	0.567	
6345	79	802.11ax	OFDM	160	12.75	11.92	-0.11	2	Ant 3c	V1	J9MG3	68.1	Top	97.7	0.25	-	1.554	1.211	1.023	1.430	2.753	2.300	4.428	
6345	79	802.11ax	OFDM	160	12.75	12.25	-0.05	9.45	Ant 3c	V2	XLN9M	68.1	Top	97.7	0.25	2.270	1.554	1.122	1.023	1.660	2.961	1.770	3.157	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m² averaged over 4 cm²													

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

10.39 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 λ/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=2mm and d=λ/5mm 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 ≥ -1dB, the grid step was sufficient for determining compliance at d=2mm.
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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D04v01 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

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

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

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

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (including scenarios with inter-band ULCA active) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR and during inter-band ULCA active conditions to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations (including scenarios with inter-band ULCA active) is demonstrated in the Part 2 Report during algorithm validation.

All 3G/4G/5G transmitting antennas are within one Smart Transmit Gen2 antenna group, therefore no additional simultaneous analysis is required.

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1

Cellular Band Ant 1a Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.905	0.396	1.089	0.271	0.034	1.519*	1.21*	1.21*
	Top	0.004	1.088	0.149	0.000	0.000	1.241	1.092	0.153
	Bottom	0.262	0.007	0.003	0.156	0.000	0.272	0.425	0.421
	Right	0.000	0.007	0.565	0.012	0.003	0.575	0.022	0.580
	Left	0.990	0.140	0.000	0.070	0.000	1.130	1.200	1.060

Table 11-2

Cellular Band Ant 1b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.396	1.089	0.271	0.034	1.519*	1.295*	1.295*
	Top	0.050	1.088	0.149	0.000	0.000	1.287	1.138	0.199
	Bottom	0.990	0.007	0.003	0.156	0.000	1.000	1.153	1.149
	Right	0.018	0.007	0.565	0.012	0.003	0.593	0.040	0.598
	Left	0.065	0.140	0.000	0.070	0.000	0.205	0.275	0.135

Table 11-3

Cellular Band Ant 2a Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.984	0.396	1.089	0.271	0.034	1.519*	1.414*	1.394*
	Top	0.011	1.088	0.149	0.000	0.000	1.248	1.099	0.160
	Bottom	0.319	0.007	0.003	0.156	0.000	0.329	0.482	0.478
	Right	0.990	0.007	0.565	0.012	0.003	1.565	1.012	1.570
	Left	0.002	0.140	0.000	0.070	0.000	0.142	0.212	0.072

Table 11-4

Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.396	1.089	0.271	0.034	1.519*	1.42*	1.394*
	Top	0.007	1.088	0.149	0.000	0.000	1.244	1.095	0.156
	Bottom	0.990	0.007	0.003	0.156	0.000	1.000	1.153	1.149
	Right	0.086	0.007	0.565	0.012	0.003	0.661	0.108	0.666
	Left	0.024	0.140	0.000	0.070	0.000	0.164	0.234	0.094

Table 11-5

Cellular Band Ant 3a Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.599	0.086	0.242	1.090	0.034	0.961	1.21*	1.124*
	Top	0.415	0.207	0.027	0.000	0.000	0.649	0.622	0.442
	Bottom	0.023	0.007	0.003	0.611	0.000	0.033	0.641	0.637
	Right	0.990	0.007	0.106	0.012	0.003	1.106	1.012	1.111
	Left	0.016	0.034	0.000	0.070	0.000	0.050	0.120	0.086

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 11-6

Cellular Band Ant 3b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.086	0.242	1.090	0.034	1.352	1.124*	1.266*
	Top	0.990	0.207	0.027	0.000	0.000	1.224	1.197	1.017
	Bottom	0.023	0.007	0.003	0.611	0.000	0.033	0.641	0.637
	Right	0.150	0.007	0.106	0.012	0.003	0.266	0.172	0.271
	Left	0.044	0.034	0.000	0.070	0.000	0.078	0.148	0.114

Table 11-7

Cellular Band Ant 4 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.086	1.089	1.090	0.034	1.209*	1.210*	1.124*
	Top	0.902	0.207	0.149	0.000	0.000	1.258	1.109	1.051
	Bottom	0.034	0.007	0.003	0.611	0.000	0.044	0.652	0.648
	Right	0.097	0.007	0.565	0.012	0.003	0.672	0.119	0.677
	Left	0.990	0.034	0.000	0.070	0.000	1.024	1.094	1.060

Table 11-8

Cellular Band Ant 1a Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.905	0.136	1.075	0.299	0.034	1.245*	1.374	1.238*
	Top	0.004	1.083	0.157	0.000	0.000	1.244	1.087	0.161
	Bottom	0.262	0.012	0.003	0.252	0.000	0.277	0.526	0.517
	Right	0.000	0.015	0.586	0.000	0.003	0.604	0.018	0.589
	Left	0.990	0.022	0.001	0.080	0.000	1.013	1.092	1.071

Table 11-9

Cellular Band Ant 1b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.136	1.075	0.299	0.034	1.245*	1.459	1.323*
	Top	0.050	1.083	0.157	0.000	0.000	1.290	1.133	0.207
	Bottom	0.990	0.012	0.003	0.252	0.000	1.005	1.254	1.245
	Right	0.018	0.015	0.586	0.000	0.003	0.622	0.036	0.607
	Left	0.065	0.022	0.001	0.080	0.000	0.088	0.167	0.146

Table 11-10

Cellular Band Ant 2a Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.984	0.136	1.075	0.299	0.034	1.245*	1.453	1.408*
	Top	0.011	1.083	0.157	0.000	0.000	1.251	1.094	0.168
	Bottom	0.319	0.012	0.003	0.252	0.000	0.334	0.583	0.574
	Right	0.990	0.015	0.586	0.000	0.003	1.594	1.008	1.579
	Left	0.002	0.022	0.001	0.080	0.000	0.025	0.104	0.083

Table 11-11

Cellular Band Ant 2b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.136	1.075	0.299	0.034	1.245*	1.459	1.408*
	Top	0.007	1.083	0.157	0.000	0.000	1.247	1.090	0.164
	Bottom	0.990	0.012	0.003	0.252	0.000	1.005	1.254	1.245
	Right	0.086	0.015	0.586	0.000	0.003	0.690	0.104	0.675
	Left	0.024	0.022	0.001	0.080	0.000	0.047	0.126	0.105

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 11-12

Cellular Band Ant 3a Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.599	0.018	0.229	1.074	0.034	0.880	1.126*	1.108*
	Top	0.415	0.172	0.052	0.000	0.000	0.639	0.587	0.467
	Bottom	0.023	0.012	0.003	0.798	0.000	0.038	0.833	0.824
	Right	0.990	0.015	0.127	0.000	0.003	1.135	1.008	1.120
	Left	0.016	0.022	0.001	0.080	0.000	0.039	0.118	0.097

Table 11-13

Cellular Band Ant 3b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.018	0.229	1.074	0.034	1.271	1.108*	1.253*
	Top	0.990	0.172	0.052	0.000	0.000	1.214	1.162	1.042
	Bottom	0.023	0.012	0.003	0.798	0.000	0.038	0.833	0.824
	Right	0.150	0.015	0.127	0.000	0.003	0.295	0.168	0.280
	Left	0.044	0.022	0.001	0.080	0.000	0.067	0.146	0.125

Table 11-14

Cellular Band Ant 4 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)		
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+3+4+5
Body SAR	Back	0.990	0.018	1.075	1.074	0.034	1.127*	1.126*	1.109*
	Top	0.902	0.172	0.157	0.000	0.000	1.231	1.074	1.059
	Bottom	0.034	0.012	0.003	0.798	0.000	0.049	0.844	0.835
	Right	0.097	0.015	0.586	0.000	0.003	0.701	0.115	0.686
	Left	0.990	0.022	0.001	0.080	0.000	1.013	1.092	1.071

Table 11-15

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.543	0.209	0.034	1.148*
	Top	0.004	0.401	0.010	0.000	0.415
	Bottom	0.262	0.020	0.083	0.000	0.365
	Right	0.000	1.085	0.000	0.003	1.088
	Left	0.990	0.000	0.276	0.000	1.266

Table 11-16

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	0.209	0.034	1.233*
	Top	0.050	0.401	0.010	0.000	0.461
	Bottom	0.990	0.020	0.083	0.000	1.093
	Right	0.018	1.085	0.000	0.003	1.106
	Left	0.065	0.000	0.276	0.000	0.341

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-17

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.543	1.088	0.034	1.561*
	Top	0.011	0.401	0.010	0.000	0.422
	Bottom	0.319	0.020	0.332	0.000	0.671
	Right	0.990	1.085	0.000	0.003	1.088*
	Left	0.002	0.000	1.084	0.000	1.086

Table 11-18

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	1.088	0.034	1.567*
	Top	0.007	0.401	0.010	0.000	0.418
	Bottom	0.990	0.020	0.332	0.000	1.342
	Right	0.086	1.085	0.000	0.003	1.174
	Left	0.024	0.000	1.084	0.000	1.108

Table 11-19

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.139	1.088	0.034	1.122*
	Top	0.415	0.105	0.010	0.000	0.530
	Bottom	0.023	0.020	0.332	0.000	0.375
	Right	0.990	0.251	0.000	0.003	1.244
	Left	0.016	0.000	1.084	0.000	1.100

Table 11-20

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.139	1.088	0.034	1.163*
	Top	0.990	0.105	0.010	0.000	1.105
	Bottom	0.023	0.020	0.332	0.000	0.375
	Right	0.150	0.251	0.000	0.003	0.404
	Left	0.044	0.000	1.084	0.000	1.128

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-21

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	1.088	0.034	1.567*
	Top	0.902	0.401	0.010	0.000	1.313
	Bottom	0.034	0.020	0.332	0.000	0.386
	Right	0.097	1.085	0.000	0.003	1.185
	Left	0.990	0.000	1.084	0.000	1.084*

Table 11-22

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.457	0.465	0.034	1.404*
	Top	0.004	0.341	0.017	0.000	0.362
	Bottom	0.262	0.016	0.116	0.000	0.394
	Right	0.000	1.015	0.000	0.003	1.018
	Left	0.990	0.000	0.350	0.000	1.340

Table 11-23

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.457	0.465	0.034	1.489*
	Top	0.050	0.341	0.017	0.000	0.408
	Bottom	0.990	0.016	0.116	0.000	1.122
	Right	0.018	1.015	0.000	0.003	1.036
	Left	0.065	0.000	0.350	0.000	0.415

Table 11-24

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.457	1.090	0.034	1.581*
	Top	0.011	0.341	0.017	0.000	0.369
	Bottom	0.319	0.016	0.388	0.000	0.723
	Right	0.990	1.015	0.000	0.003	1.018*
	Left	0.002	0.000	1.003	0.000	1.005

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-25

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.457	1.090	0.034	1.581*
	Top	0.007	0.341	0.017	0.000	0.365
	Bottom	0.990	0.016	0.388	0.000	1.394
	Right	0.086	1.015	0.000	0.003	1.104
	Left	0.024	0.000	1.003	0.000	1.027

Table 11-26

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.214	1.090	0.034	1.124*
	Top	0.415	0.152	0.017	0.000	0.584
	Bottom	0.023	0.016	0.388	0.000	0.427
	Right	0.990	0.532	0.000	0.003	1.525
	Left	0.016	0.000	1.003	0.000	1.019

Table 11-27

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.214	1.090	0.034	1.238*
	Top	0.990	0.152	0.017	0.000	1.159
	Bottom	0.023	0.016	0.388	0.000	0.427
	Right	0.150	0.532	0.000	0.003	0.685
	Left	0.044	0.000	1.003	0.000	1.047

Table 11-28

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.457	1.090	0.034	1.581*
	Top	0.902	0.341	0.017	0.000	1.260
	Bottom	0.034	0.016	0.388	0.000	0.438
	Right	0.097	1.015	0.000	0.003	1.115
	Left	0.990	0.000	1.003	0.000	1.003*

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-29

Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.095	0.296	0.034	1.330
	Top	0.004	0.326	0.101	0.000	0.431
	Bottom	0.262	0.000	0.000	0.000	0.262
	Right	0.000	0.000	0.272	0.003	0.275
	Left	0.990	0.000	0.000	0.000	0.990

Table 11-30

Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	0.296	0.034	1.415
	Top	0.050	0.326	0.101	0.000	0.477
	Bottom	0.990	0.000	0.000	0.000	0.990
	Right	0.018	0.000	0.272	0.003	0.293
	Left	0.065	0.000	0.000	0.000	0.065

Table 11-31

Cellular Band Ant 2a Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.095	0.296	0.034	1.409
	Top	0.011	0.326	0.101	0.000	0.438
	Bottom	0.319	0.000	0.000	0.000	0.319
	Right	0.990	0.000	0.272	0.003	1.265
	Left	0.002	0.000	0.000	0.000	0.002

Table 11-32

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	0.296	0.034	1.415
	Top	0.007	0.326	0.101	0.000	0.434
	Bottom	0.990	0.000	0.000	0.000	0.990
	Right	0.086	0.000	0.272	0.003	0.361
	Left	0.024	0.000	0.000	0.000	0.024

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-33

Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.095	0.296	0.034	1.024
	Top	0.415	0.326	0.101	0.000	0.842
	Bottom	0.023	0.000	0.000	0.000	0.023
	Right	0.990	0.000	0.272	0.003	1.265
	Left	0.016	0.000	0.000	0.000	0.016

Table 11-34

Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	0.296	0.034	1.415
	Top	0.990	0.326	0.101	0.000	1.417
	Bottom	0.023	0.000	0.000	0.000	0.023
	Right	0.150	0.000	0.272	0.003	0.425
	Left	0.044	0.000	0.000	0.000	0.044

Table 11-35

Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	0.296	0.034	1.415
	Top	0.902	0.326	0.101	0.000	1.329
	Bottom	0.034	0.000	0.000	0.000	0.034
	Right	0.097	0.000	0.272	0.003	0.372
	Left	0.990	0.000	0.000	0.000	0.990

Table 11-36

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.214	0.465	0.396	1.089	0.034	1.404*
	Top	0.004	0.152	0.017	1.088	0.149	0.000	1.410
	Bottom	0.262	0.016	0.116	0.007	0.003	0.000	0.404
	Right	0.000	0.532	0.000	0.007	0.565	0.003	1.107
	Left	0.990	0.000	0.350	0.140	0.000	0.000	1.480

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-37

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.465	0.396	1.089	0.034	1.489*
	Top	0.050	0.152	0.017	1.088	0.149	0.000	1.456
	Bottom	0.990	0.016	0.116	0.007	0.003	0.000	1.132
	Right	0.018	0.532	0.000	0.007	0.565	0.003	1.125
	Left	0.065	0.000	0.350	0.140	0.000	0.000	0.555

Table 11-38

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.214	0.257	1.089	0.271	0.034	1.467*
	Top	0.004	0.152	0.017	0.149	0.000	0.000	0.322
	Bottom	0.262	0.016	0.064	0.003	0.156	0.000	0.501
	Right	0.000	0.532	0.000	0.565	0.012	0.003	1.112
	Left	0.990	0.000	0.170	0.000	0.070	0.000	1.230

Table 11-39

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	1.089	0.271	0.034	1.552*
	Top	0.050	0.152	0.017	0.149	0.000	0.000	0.368
	Bottom	0.990	0.016	0.064	0.003	0.156	0.000	1.229
	Right	0.018	0.532	0.000	0.565	0.012	0.003	1.130
	Left	0.065	0.000	0.170	0.000	0.070	0.000	0.305

Table 11-40

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.214	0.257	0.271	0.396	0.034	1.467*
	Top	0.004	0.152	0.017	0.000	1.088	0.000	1.261
	Bottom	0.262	0.016	0.064	0.156	0.007	0.000	0.505
	Right	0.000	0.532	0.000	0.012	0.007	0.003	0.554
	Left	0.990	0.000	0.170	0.070	0.140	0.000	1.370

Table 11-41

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	0.271	0.396	0.034	1.552*
	Top	0.050	0.152	0.017	0.000	1.088	0.000	1.307
	Bottom	0.990	0.016	0.064	0.156	0.007	0.000	1.233
	Right	0.018	0.532	0.000	0.012	0.007	0.003	0.572
	Left	0.065	0.000	0.170	0.070	0.140	0.000	0.445

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-42

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.214	1.090	0.396	1.089	0.034	1.52*
	Top	0.011	0.152	0.017	1.088	0.149	0.000	1.417
	Bottom	0.319	0.016	0.388	0.007	0.003	0.000	0.733
	Right	0.990	0.532	0.000	0.007	0.565	0.003	1.107*
	Left	0.002	0.000	1.003	0.140	0.000	0.000	1.145

Table 11-43

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	1.090	0.396	1.089	0.034	1.52*
	Top	0.007	0.152	0.017	1.088	0.149	0.000	1.413
	Bottom	0.990	0.016	0.388	0.007	0.003	0.000	1.404
	Right	0.086	0.532	0.000	0.007	0.565	0.003	1.193
	Left	0.024	0.000	1.003	0.140	0.000	0.000	1.167

Table 11-44

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.214	0.257	1.089	0.271	0.034	1.546*
	Top	0.011	0.152	0.017	0.149	0.000	0.000	0.329
	Bottom	0.319	0.016	0.064	0.003	0.156	0.000	0.558
	Right	0.990	0.532	0.000	0.565	0.012	0.003	1.112*
	Left	0.002	0.000	0.170	0.000	0.070	0.000	0.242

Table 11-45

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	1.089	0.271	0.034	1.552*
	Top	0.007	0.152	0.017	0.149	0.000	0.000	0.325
	Bottom	0.990	0.016	0.064	0.003	0.156	0.000	1.229
	Right	0.086	0.532	0.000	0.565	0.012	0.003	1.198
	Left	0.024	0.000	0.170	0.000	0.070	0.000	0.264

Table 11-46

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.214	0.257	0.271	0.396	0.034	1.546*
	Top	0.011	0.152	0.017	0.000	1.088	0.000	1.268
	Bottom	0.319	0.016	0.064	0.156	0.007	0.000	0.562
	Right	0.990	0.532	0.000	0.012	0.007	0.003	1.544
	Left	0.002	0.000	0.170	0.070	0.140	0.000	0.382

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-47

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	0.271	0.396	0.034	1.552*
	Top	0.007	0.152	0.017	0.000	1.088	0.000	1.264
	Bottom	0.990	0.016	0.064	0.156	0.007	0.000	1.233
	Right	0.086	0.532	0.000	0.012	0.007	0.003	0.640
	Left	0.024	0.000	0.170	0.070	0.140	0.000	0.404

Table 11-48

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.120	1.090	0.086	0.242	0.034	1.21*
	Top	0.415	0.080	0.017	0.207	0.027	0.000	0.746
	Bottom	0.023	0.016	0.388	0.007	0.003	0.000	0.437
	Right	0.990	0.313	0.000	0.007	0.106	0.003	1.419
	Left	0.016	0.000	1.003	0.034	0.000	0.000	1.053

Table 11-49

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	1.090	0.086	0.242	0.034	1.472*
	Top	0.990	0.080	0.017	0.207	0.027	0.000	1.321
	Bottom	0.023	0.016	0.388	0.007	0.003	0.000	0.437
	Right	0.150	0.313	0.000	0.007	0.106	0.003	0.579
	Left	0.044	0.000	1.003	0.034	0.000	0.000	1.081

Table 11-50

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.120	0.465	0.242	1.090	0.034	1.589*
	Top	0.415	0.080	0.017	0.027	0.000	0.000	0.539
	Bottom	0.023	0.016	0.116	0.003	0.611	0.000	0.769
	Right	0.990	0.313	0.000	0.106	0.012	0.003	1.424
	Left	0.016	0.000	0.350	0.000	0.070	0.000	0.436

Table 11-51

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	0.242	1.090	0.034	1.589*
	Top	0.990	0.080	0.017	0.027	0.000	0.000	1.114
	Bottom	0.023	0.016	0.116	0.003	0.611	0.000	0.769
	Right	0.150	0.313	0.000	0.106	0.012	0.003	0.584
	Left	0.044	0.000	0.350	0.000	0.070	0.000	0.464

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-52

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.120	0.465	1.090	0.086	0.034	1.589*
	Top	0.415	0.080	0.017	0.000	0.207	0.000	0.719
	Bottom	0.023	0.016	0.116	0.611	0.007	0.000	0.773
	Right	0.990	0.313	0.000	0.012	0.007	0.003	1.325
	Left	0.016	0.000	0.350	0.070	0.034	0.000	0.470

Table 11-53

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	1.090	0.086	0.034	1.589*
	Top	0.990	0.080	0.017	0.000	0.207	0.000	1.294
	Bottom	0.023	0.016	0.116	0.611	0.007	0.000	0.773
	Right	0.150	0.313	0.000	0.012	0.007	0.003	0.485
	Left	0.044	0.000	0.350	0.070	0.034	0.000	0.498

Table 11-54

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	1.090	0.086	1.089	0.034	1.329*
	Top	0.902	0.080	0.017	0.207	0.149	0.000	1.355
	Bottom	0.034	0.016	0.388	0.007	0.003	0.000	0.448
	Right	0.097	0.313	0.000	0.007	0.565	0.003	0.985
	Left	0.990	0.000	1.003	0.034	0.000	0.000	1.037*

Table 11-55

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	1.089	1.090	0.034	1.589*
	Top	0.902	0.080	0.017	0.149	0.000	0.000	1.148
	Bottom	0.034	0.016	0.116	0.003	0.611	0.000	0.780
	Right	0.097	0.313	0.000	0.565	0.012	0.003	0.990
	Left	0.990	0.000	0.350	0.000	0.070	0.000	1.410

Table 11-56

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	1.090	0.086	0.034	1.589*
	Top	0.902	0.080	0.017	0.000	0.207	0.000	1.206
	Bottom	0.034	0.016	0.116	0.611	0.007	0.000	0.784
	Right	0.097	0.313	0.000	0.012	0.007	0.003	0.432
	Left	0.990	0.000	0.350	0.070	0.034	0.000	1.444

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-57

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.214	0.465	0.136	1.075	0.034	1.54*
	Top	0.004	0.152	0.017	1.083	0.157	0.000	1.413
	Bottom	0.262	0.016	0.116	0.012	0.003	0.000	0.409
	Right	0.000	0.532	0.000	0.015	0.586	0.003	1.136
	Left	0.990	0.000	0.350	0.022	0.001	0.000	1.363

Table 11-58

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.465	0.136	1.075	0.034	1.489*
	Top	0.050	0.152	0.017	1.083	0.157	0.000	1.459
	Bottom	0.990	0.016	0.116	0.012	0.003	0.000	1.137
	Right	0.018	0.532	0.000	0.015	0.586	0.003	1.154
	Left	0.065	0.000	0.350	0.022	0.001	0.000	0.438

Table 11-59

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.214	0.257	1.075	0.299	0.034	1.495*
	Top	0.004	0.152	0.017	0.157	0.000	0.000	0.330
	Bottom	0.262	0.016	0.064	0.003	0.252	0.000	0.597
	Right	0.000	0.532	0.000	0.586	0.000	0.003	1.121
	Left	0.990	0.000	0.170	0.001	0.080	0.000	1.241

Table 11-60

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	1.075	0.299	0.034	1.58*
	Top	0.050	0.152	0.017	0.157	0.000	0.000	0.376
	Bottom	0.990	0.016	0.064	0.003	0.252	0.000	1.325
	Right	0.018	0.532	0.000	0.586	0.000	0.003	1.139
	Left	0.065	0.000	0.170	0.001	0.080	0.000	0.316

Table 11-61

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.214	0.257	0.299	0.136	0.034	1.495*
	Top	0.004	0.152	0.017	0.000	1.083	0.000	1.256
	Bottom	0.262	0.016	0.064	0.252	0.012	0.000	0.606
	Right	0.000	0.532	0.000	0.000	0.015	0.003	0.550
	Left	0.990	0.000	0.170	0.080	0.022	0.000	1.262

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-62

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	0.299	0.136	0.034	1.58*
	Top	0.050	0.152	0.017	0.000	1.083	0.000	1.302
	Bottom	0.990	0.016	0.064	0.252	0.012	0.000	1.334
	Right	0.018	0.532	0.000	0.000	0.015	0.003	0.568
	Left	0.065	0.000	0.170	0.080	0.022	0.000	0.337

Table 11-63

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.214	1.090	0.136	1.075	0.034	1.459*
	Top	0.011	0.152	0.017	1.083	0.157	0.000	1.420
	Bottom	0.319	0.016	0.388	0.012	0.003	0.000	0.738
	Right	0.990	0.532	0.000	0.015	0.586	0.003	1.136*
	Left	0.002	0.000	1.003	0.022	0.001	0.000	1.028

Table 11-64

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	1.090	0.136	1.075	0.034	1.459*
	Top	0.007	0.152	0.017	1.083	0.157	0.000	1.416
	Bottom	0.990	0.016	0.388	0.012	0.003	0.000	1.409
	Right	0.086	0.532	0.000	0.015	0.586	0.003	1.222
	Left	0.024	0.000	1.003	0.022	0.001	0.000	1.050

Table 11-65

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.214	0.257	1.075	0.299	0.034	1.574*
	Top	0.011	0.152	0.017	0.157	0.000	0.000	0.337
	Bottom	0.319	0.016	0.064	0.003	0.252	0.000	0.654
	Right	0.990	0.532	0.000	0.586	0.000	0.003	1.121*
	Left	0.002	0.000	0.170	0.001	0.080	0.000	0.253

Table 11-66

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	1.075	0.299	0.034	1.58*
	Top	0.007	0.152	0.017	0.157	0.000	0.000	0.333
	Bottom	0.990	0.016	0.064	0.003	0.252	0.000	1.325
	Right	0.086	0.532	0.000	0.586	0.000	0.003	1.207
	Left	0.024	0.000	0.170	0.001	0.080	0.000	0.275

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-67

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.214	0.257	0.299	0.136	0.034	1.574*
	Top	0.011	0.152	0.017	0.000	1.083	0.000	1.263
	Bottom	0.319	0.016	0.064	0.252	0.012	0.000	0.663
	Right	0.990	0.532	0.000	0.000	0.015	0.003	1.540
	Left	0.002	0.000	0.170	0.080	0.022	0.000	0.274

Table 11-68

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.214	0.257	0.299	0.136	0.034	1.58*
	Top	0.007	0.152	0.017	0.000	1.083	0.000	1.259
	Bottom	0.990	0.016	0.064	0.252	0.012	0.000	1.334
	Right	0.086	0.532	0.000	0.000	0.015	0.003	0.636
	Left	0.024	0.000	0.170	0.080	0.022	0.000	0.296

Table 11-69

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.120	1.090	0.018	0.229	0.034	1.142*
	Top	0.415	0.080	0.017	0.172	0.052	0.000	0.736
	Bottom	0.023	0.016	0.388	0.012	0.003	0.000	0.442
	Right	0.990	0.313	0.000	0.015	0.127	0.003	1.448
	Left	0.016	0.000	1.003	0.022	0.001	0.000	1.042

Table 11-70

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	1.090	0.018	0.229	0.034	1.391*
	Top	0.990	0.080	0.017	0.172	0.052	0.000	1.311
	Bottom	0.023	0.016	0.388	0.012	0.003	0.000	0.442
	Right	0.150	0.313	0.000	0.015	0.127	0.003	0.608
	Left	0.044	0.000	1.003	0.022	0.001	0.000	1.070

Table 11-71

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.120	0.465	0.229	1.074	0.034	1.573*
	Top	0.415	0.080	0.017	0.052	0.000	0.000	0.564
	Bottom	0.023	0.016	0.116	0.003	0.798	0.000	0.956
	Right	0.990	0.313	0.000	0.127	0.000	0.003	1.433
	Left	0.016	0.000	0.350	0.001	0.080	0.000	0.447

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-72

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	0.229	1.074	0.034	1.573*
	Top	0.990	0.080	0.017	0.052	0.000	0.000	1.139
	Bottom	0.023	0.016	0.116	0.003	0.798	0.000	0.956
	Right	0.150	0.313	0.000	0.127	0.000	0.003	0.593
	Left	0.044	0.000	0.350	0.001	0.080	0.000	0.475

Table 11-73

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.120	0.465	1.074	0.018	0.034	1.591*
	Top	0.415	0.080	0.017	0.000	0.172	0.000	0.684
	Bottom	0.023	0.016	0.116	0.798	0.012	0.000	0.965
	Right	0.990	0.313	0.000	0.000	0.015	0.003	1.321
	Left	0.016	0.000	0.350	0.080	0.022	0.000	0.468

Table 11-74

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	1.074	0.018	0.034	1.573*
	Top	0.990	0.080	0.017	0.000	0.172	0.000	1.259
	Bottom	0.023	0.016	0.116	0.798	0.012	0.000	0.965
	Right	0.150	0.313	0.000	0.000	0.015	0.003	0.481
	Left	0.044	0.000	0.350	0.080	0.022	0.000	0.496

Table 11-75

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	1.090	0.018	1.075	0.034	1.229*
	Top	0.902	0.080	0.017	0.172	0.157	0.000	1.328
	Bottom	0.034	0.016	0.388	0.012	0.003	0.000	0.453
	Right	0.097	0.313	0.000	0.015	0.586	0.003	1.014
	Left	0.990	0.000	1.003	0.022	0.001	0.000	1.026*

Table 11-76

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	1.075	1.074	0.034	1.573*
	Top	0.902	0.080	0.017	0.157	0.000	0.000	1.156
	Bottom	0.034	0.016	0.116	0.003	0.798	0.000	0.967
	Right	0.097	0.313	0.000	0.586	0.000	0.003	0.999
	Left	0.990	0.000	0.350	0.001	0.080	0.000	1.421

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-77

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.120	0.465	1.074	0.018	0.034	1.591*
	Top	0.902	0.080	0.017	0.000	0.172	0.000	1.171
	Bottom	0.034	0.016	0.116	0.798	0.012	0.000	0.976
	Right	0.097	0.313	0.000	0.000	0.015	0.003	0.428
	Left	0.990	0.000	0.350	0.080	0.022	0.000	1.442

Table 11-78

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.457	0.257	0.271	0.034	1.467*
	Top	0.004	0.341	0.017	0.000	0.000	0.362
	Bottom	0.262	0.016	0.064	0.156	0.000	0.498
	Right	0.000	1.015	0.000	0.012	0.003	1.030
	Left	0.990	0.000	0.170	0.070	0.000	1.230

Table 11-79

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.457	0.257	0.271	0.034	1.552*
	Top	0.050	0.341	0.017	0.000	0.000	0.408
	Bottom	0.990	0.016	0.064	0.156	0.000	1.226
	Right	0.018	1.015	0.000	0.012	0.003	1.048
	Left	0.065	0.000	0.170	0.070	0.000	0.305

Table 11-80

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.457	0.257	0.271	0.034	1.546*
	Top	0.011	0.341	0.017	0.000	0.000	0.369
	Bottom	0.319	0.016	0.064	0.156	0.000	0.555
	Right	0.990	1.015	0.000	0.012	0.003	1.03*
	Left	0.002	0.000	0.170	0.070	0.000	0.242

Table 11-81

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.457	0.257	0.271	0.034	1.552*
	Top	0.007	0.341	0.017	0.000	0.000	0.365
	Bottom	0.990	0.016	0.064	0.156	0.000	1.226
	Right	0.086	1.015	0.000	0.012	0.003	1.116
	Left	0.024	0.000	0.170	0.070	0.000	0.264

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-82

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.214	0.465	1.090	0.034	1.589*
	Top	0.415	0.152	0.017	0.000	0.000	0.584
	Bottom	0.023	0.016	0.116	0.611	0.000	0.766
	Right	0.990	0.532	0.000	0.012	0.003	1.537
	Left	0.016	0.000	0.350	0.070	0.000	0.436

Table 11-83

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.214	0.465	1.090	0.034	1.589*
	Top	0.990	0.152	0.017	0.000	0.000	1.159
	Bottom	0.023	0.016	0.116	0.611	0.000	0.766
	Right	0.150	0.532	0.000	0.012	0.003	0.697
	Left	0.044	0.000	0.350	0.070	0.000	0.464

Table 11-84

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.457	0.465	1.090	0.034	1.589*
	Top	0.902	0.341	0.017	0.000	0.000	1.260
	Bottom	0.034	0.016	0.116	0.611	0.000	0.777
	Right	0.097	1.015	0.000	0.012	0.003	1.127
	Left	0.990	0.000	0.350	0.070	0.000	1.410

Table 11-85

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.457	0.257	0.299	0.034	1.495*
	Top	0.004	0.341	0.017	0.000	0.000	0.362
	Bottom	0.262	0.016	0.064	0.252	0.000	0.594
	Right	0.000	1.015	0.000	0.000	0.003	1.018
	Left	0.990	0.000	0.170	0.080	0.000	1.240

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-86

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.457	0.257	0.299	0.034	1.58*
	Top	0.050	0.341	0.017	0.000	0.000	0.408
	Bottom	0.990	0.016	0.064	0.252	0.000	1.322
	Right	0.018	1.015	0.000	0.000	0.003	1.036
	Left	0.065	0.000	0.170	0.080	0.000	0.315

Table 11-87

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.457	0.257	0.299	0.034	1.574*
	Top	0.011	0.341	0.017	0.000	0.000	0.369
	Bottom	0.319	0.016	0.064	0.252	0.000	0.651
	Right	0.990	1.015	0.000	0.000	0.003	1.018*
	Left	0.002	0.000	0.170	0.080	0.000	0.252

Table 11-88

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.457	0.257	0.299	0.034	1.58*
	Top	0.007	0.341	0.017	0.000	0.000	0.365
	Bottom	0.990	0.016	0.064	0.252	0.000	1.322
	Right	0.086	1.015	0.000	0.000	0.003	1.104
	Left	0.024	0.000	0.170	0.080	0.000	0.274

Table 11-89

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.214	0.465	1.074	0.034	1.573*
	Top	0.415	0.152	0.017	0.000	0.000	0.584
	Bottom	0.023	0.016	0.116	0.798	0.000	0.953
	Right	0.990	0.532	0.000	0.000	0.003	1.525
	Left	0.016	0.000	0.350	0.080	0.000	0.446

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-90

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.214	0.465	1.074	0.034	1.573*
	Top	0.990	0.152	0.017	0.000	0.000	1.159
	Bottom	0.023	0.016	0.116	0.798	0.000	0.953
	Right	0.150	0.532	0.000	0.000	0.003	0.685
	Left	0.044	0.000	0.350	0.080	0.000	0.474

Table 11-91

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz Bluetooth Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.457	0.465	1.074	0.034	1.573*
	Top	0.902	0.341	0.017	0.000	0.000	1.260
	Bottom	0.034	0.016	0.116	0.798	0.000	0.964
	Right	0.097	1.015	0.000	0.000	0.003	1.115
	Left	0.990	0.000	0.350	0.080	0.000	1.420

Table 11-92

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.214	0.465	1.089	1.090	0.034	1.589*
	Top	0.152	0.017	0.149	0.000	0.000	0.318
	Bottom	0.016	0.116	0.003	0.611	0.000	0.746
	Right	0.532	0.000	0.565	0.012	0.003	1.112
	Left	0.000	0.350	0.000	0.070	0.000	0.420

Table 11-93

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.214	0.465	1.090	0.396	0.034	1.589*
	Top	0.152	0.017	0.000	1.088	0.000	1.257
	Bottom	0.016	0.116	0.611	0.007	0.000	0.750
	Right	0.532	0.000	0.012	0.007	0.003	0.554
	Left	0.000	0.350	0.070	0.140	0.000	0.560

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-94

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

Simult Tx	Configuration	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.214	0.465	1.075	1.074	0.034	1.573*
	Top	0.152	0.017	0.157	0.000	0.000	0.326
	Bottom	0.016	0.116	0.003	0.798	0.000	0.933
	Right	0.532	0.000	0.586	0.000	0.003	1.121
	Left	0.000	0.350	0.001	0.080	0.000	0.431

Table 11-95

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

Simult Tx	Configuration	2.4 GHz Bluetooth Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.214	0.465	1.074	0.136	0.034	1.573*
	Top	0.152	0.017	0.000	1.083	0.000	1.252
	Bottom	0.016	0.116	0.798	0.012	0.000	0.942
	Right	0.532	0.000	0.000	0.015	0.003	0.550
	Left	0.000	0.350	0.080	0.022	0.000	0.452

Table 11-96

Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.905	0.095	0.296	0.543	0.209	0.034	1.243*
	Top	0.004	0.326	0.101	0.401	0.010	0.000	0.842
	Bottom	0.262	0.000	0.000	0.020	0.083	0.000	0.365
	Right	0.000	0.000	0.272	1.085	0.000	0.003	1.360
	Left	0.990	0.000	0.000	0.000	0.276	0.000	1.266

Table 11-97

Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.095	0.296	0.543	0.209	0.034	1.328*
	Top	0.050	0.326	0.101	0.401	0.010	0.000	0.888
	Bottom	0.990	0.000	0.000	0.020	0.083	0.000	1.093
	Right	0.018	0.000	0.272	1.085	0.000	0.003	1.378
	Left	0.065	0.000	0.000	0.000	0.276	0.000	0.341

Table 11-98

Cellular Band Ant 2a Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.984	0.095	0.296	0.543	1.088	0.034	1.217*
	Top	0.011	0.326	0.101	0.401	0.010	0.000	0.849
	Bottom	0.319	0.000	0.000	0.020	0.332	0.000	0.671
	Right	0.990	0.000	0.272	1.085	0.000	0.003	1.36*
	Left	0.002	0.000	0.000	0.000	1.084	0.000	1.086

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-99

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.095	0.296	0.543	1.088	0.034	1.217*
	Top	0.007	0.326	0.101	0.401	0.010	0.000	0.845
	Bottom	0.990	0.000	0.000	0.020	0.332	0.000	1.342
	Right	0.086	0.000	0.272	1.085	0.000	0.003	1.446
	Left	0.024	0.000	0.000	0.000	1.084	0.000	1.108

Table 11-100

Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 3c with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.599	0.095	0.155	0.139	1.088	0.034	1.217*
	Top	0.415	0.169	0.061	0.105	0.010	0.000	0.760
	Bottom	0.023	0.000	0.000	0.020	0.332	0.000	0.375
	Right	0.990	0.000	0.127	0.251	0.000	0.003	1.371
	Left	0.016	0.000	0.000	0.000	1.084	0.000	1.100

Table 11-101

Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 3c with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.095	0.155	0.139	1.088	0.034	1.413*
	Top	0.990	0.169	0.061	0.105	0.010	0.000	1.335
	Bottom	0.023	0.000	0.000	0.020	0.332	0.000	0.375
	Right	0.150	0.000	0.127	0.251	0.000	0.003	0.531
	Left	0.044	0.000	0.000	0.000	1.084	0.000	1.128

Table 11-102

Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 3c with 7 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.095	0.155	0.543	1.088	0.034	1.217*
	Top	0.902	0.169	0.061	0.401	0.010	0.000	1.543
	Bottom	0.034	0.000	0.000	0.020	0.332	0.000	0.386
	Right	0.097	0.000	0.127	1.085	0.000	0.003	1.312
	Left	0.990	0.000	0.000	0.000	1.084	0.000	1.084*

Table 11-103

Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 3c SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.095	0.209	0.034	1.243
	Top	0.004	0.576	0.010	0.000	0.590
	Bottom	0.262	0.000	0.083	0.000	0.345
	Right	0.000	0.000	0.000	0.003	0.003
	Left	0.990	0.000	0.276	0.000	1.266

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-104

Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 3c SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	0.209	0.034	1.328
	Top	0.050	0.576	0.010	0.000	0.636
	Bottom	0.990	0.000	0.083	0.000	1.073
	Right	0.018	0.000	0.000	0.003	0.021
	Left	0.065	0.000	0.276	0.000	0.341

Table 11-105

Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	1.085	0.209	0.034	1.148*
	Top	0.004	0.181	0.010	0.000	0.195
	Bottom	0.262	0.000	0.083	0.000	0.345
	Right	0.000	0.633	0.000	0.003	0.636
	Left	0.990	0.000	0.276	0.000	1.266

Table 11-106

Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.085	0.209	0.034	1.233*
	Top	0.050	0.181	0.010	0.000	0.241
	Bottom	0.990	0.000	0.083	0.000	1.073
	Right	0.018	0.633	0.000	0.003	0.654
	Left	0.065	0.000	0.276	0.000	0.341

Table 11-107

Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.332	0.543	0.034	1.271*
	Top	0.004	0.000	0.401	0.000	0.405
	Bottom	0.262	0.202	0.020	0.000	0.484
	Right	0.000	0.005	1.085	0.003	1.093
	Left	0.990	0.054	0.000	0.000	1.044

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-108

Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.332	0.543	0.034	1.356*
	Top	0.050	0.000	0.401	0.000	0.451
	Bottom	0.990	0.202	0.020	0.000	1.212
	Right	0.018	0.005	1.085	0.003	1.111
	Left	0.065	0.054	0.000	0.000	0.119

Table 11-109

Cellular Band Ant 2a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB U-NII Ant 3c SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.095	1.088	0.034	1.217*
	Top	0.011	0.576	0.010	0.000	0.597
	Bottom	0.319	0.000	0.332	0.000	0.651
	Right	0.990	0.000	0.000	0.003	0.993
	Left	0.002	0.000	1.084	0.000	1.086

Table 11-110

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 3c SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	1.088	0.034	1.217*
	Top	0.007	0.576	0.010	0.000	0.593
	Bottom	0.990	0.000	0.332	0.000	1.322
	Right	0.086	0.000	0.000	0.003	0.089
	Left	0.024	0.000	1.084	0.000	1.108

Table 11-111

Cellular Band Ant 2a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB U-NII Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	1.085	1.088	0.034	1.122*
	Top	0.011	0.181	0.010	0.000	0.202
	Bottom	0.319	0.000	0.332	0.000	0.651
	Right	0.990	0.633	0.000	0.003	0.993*
	Left	0.002	0.000	1.084	0.000	1.086

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-112

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.085	1.088	0.034	1.122*
	Top	0.007	0.181	0.010	0.000	0.198
	Bottom	0.990	0.000	0.332	0.000	1.322
	Right	0.086	0.633	0.000	0.003	0.722
	Left	0.024	0.000	1.084	0.000	1.108

Table 11-113

Cellular Band Ant 2a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	1.085	0.543	0.034	1.561*
	Top	0.011	0.000	0.401	0.000	0.412
	Bottom	0.319	0.583	0.020	0.000	0.922
	Right	0.990	0.005	1.085	0.003	1.093*
	Left	0.002	0.054	0.000	0.000	0.056

Table 11-114

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.085	0.543	0.034	1.567*
	Top	0.007	0.000	0.401	0.000	0.408
	Bottom	0.990	0.583	0.020	0.000	1.593
	Right	0.086	0.005	1.085	0.003	1.179
	Left	0.024	0.054	0.000	0.000	0.078

Table 11-115

Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	1.085	0.139	0.034	1.119*
	Top	0.415	0.000	0.105	0.000	0.520
	Bottom	0.023	0.583	0.020	0.000	0.626
	Right	0.990	0.005	0.251	0.003	1.249
	Left	0.016	0.054	0.000	0.000	0.070

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-116

Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.085	0.139	0.034	1.163*
	Top	0.990	0.000	0.105	0.000	1.095
	Bottom	0.023	0.583	0.020	0.000	0.626
	Right	0.150	0.005	0.251	0.003	0.409
	Left	0.044	0.054	0.000	0.000	0.098

Table 11-117

Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 3c SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.095	1.088	0.034	1.122*
	Top	0.902	0.576	0.010	0.000	1.488
	Bottom	0.034	0.000	0.332	0.000	0.366
	Right	0.097	0.000	0.000	0.003	0.100
	Left	0.990	0.000	1.084	0.000	1.084*

Table 11-118

Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.085	1.088	0.034	1.122*
	Top	0.902	0.181	0.010	0.000	1.093
	Bottom	0.034	0.000	0.332	0.000	0.366
	Right	0.097	0.633	0.000	0.003	0.733
	Left	0.990	0.000	1.084	0.000	1.084*

Table 11-119

Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.085	0.543	0.034	1.567*
	Top	0.902	0.000	0.401	0.000	1.303
	Bottom	0.034	0.583	0.020	0.000	0.637
	Right	0.097	0.005	1.085	0.003	1.190
	Left	0.990	0.054	0.000	0.000	1.044

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-120

Cellular Band Ant 1a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	NB U-NII Ant 1b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.237	0.543	0.209	0.034	1.385*
	Top	0.004	0.000	0.401	0.010	0.000	0.415
	Bottom	0.262	0.112	0.020	0.083	0.000	0.477
	Right	0.000	0.005	1.085	0.000	0.003	1.093
	Left	0.990	0.054	0.000	0.276	0.000	1.320

Table 11-121

Cellular Band Ant 1b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	NB U-NII Ant 1b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.237	0.543	0.209	0.034	1.47*
	Top	0.050	0.000	0.401	0.010	0.000	0.461
	Bottom	0.990	0.112	0.020	0.083	0.000	1.205
	Right	0.018	0.005	1.085	0.000	0.003	1.111
	Left	0.065	0.054	0.000	0.276	0.000	0.395

Table 11-122

Cellular Band Ant 2a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB U-NII Ant 1b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.237	0.543	1.088	0.034	1.561*
	Top	0.011	0.000	0.401	0.010	0.000	0.422
	Bottom	0.319	0.112	0.020	0.332	0.000	0.783
	Right	0.990	0.005	1.085	0.000	0.003	1.093*
	Left	0.002	0.054	0.000	1.084	0.000	1.140

Table 11-123

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 1b with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.237	0.543	1.088	0.034	1.567*
	Top	0.007	0.000	0.401	0.010	0.000	0.418
	Bottom	0.990	0.112	0.020	0.332	0.000	1.454
	Right	0.086	0.005	1.085	0.000	0.003	1.179
	Left	0.024	0.054	0.000	1.084	0.000	1.162

Table 11-124

Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.332	0.139	1.088	0.034	1.454*
	Top	0.415	0.000	0.105	0.010	0.000	0.530
	Bottom	0.023	0.202	0.020	0.332	0.000	0.577
	Right	0.990	0.005	0.251	0.000	0.003	1.249
	Left	0.016	0.054	0.000	1.084	0.000	1.154

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-125

Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.332	0.139	1.088	0.034	1.454*
	Top	0.990	0.000	0.105	0.010	0.000	1.105
	Bottom	0.023	0.202	0.020	0.332	0.000	0.577
	Right	0.150	0.005	0.251	0.000	0.003	0.409
	Left	0.044	0.054	0.000	1.084	0.000	1.182

Table 11-126

Cellular Band Ant 4 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	NB U-NII Ant 1b with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.332	0.543	1.088	0.034	1.567*
	Top	0.902	0.000	0.401	0.010	0.000	1.313
	Bottom	0.034	0.202	0.020	0.332	0.000	0.588
	Right	0.097	0.005	1.085	0.000	0.003	1.190
	Left	0.990	0.054	0.000	1.084	0.000	1.138*

Table 11-127

Cellular Band Ant 3a Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.095	0.296	1.088	0.034	1.217*
	Top	0.415	0.326	0.101	0.010	0.000	0.852
	Bottom	0.023	0.000	0.000	0.332	0.000	0.355
	Right	0.990	0.000	0.272	0.000	0.003	1.265
	Left	0.016	0.000	0.000	1.084	0.000	1.100

Table 11-128

Cellular Band Ant 3b Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	NB U-NII Ant 3c with 4.5 dB backoff SAR (W/kg)	NB U-NII Ant 3a with 4.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.095	0.296	1.088	0.034	1.415*
	Top	0.990	0.326	0.101	0.010	0.000	1.427
	Bottom	0.023	0.000	0.000	0.332	0.000	0.355
	Right	0.150	0.000	0.272	0.000	0.003	0.425
	Left	0.044	0.000	0.000	1.084	0.000	1.128

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-129

Simultaneous Transmission Scenario with NB U-NII TXBF and wPT

Simult Tx	Configuration	NB U-NII Ant 3a SAR (W/kg)	NB U-NII Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	1.085	0.095	0.034	1.214
	Top	0.181	0.576	0.000	0.757
	Bottom	0.000	0.000	0.000	0.000
	Right	0.633	0.000	0.003	0.636
	Left	0.000	0.000	0.000	0.000

Table 11-130

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.543	0.465	0.034	1.404*
	Top	0.004	0.401	0.017	0.000	0.422
	Bottom	0.262	0.020	0.116	0.000	0.398
	Right	0.000	1.085	0.000	0.003	1.088
	Left	0.990	0.000	0.350	0.000	1.340

Table 11-131

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	0.465	0.034	1.489*
	Top	0.050	0.401	0.017	0.000	0.468
	Bottom	0.990	0.020	0.116	0.000	1.126
	Right	0.018	1.085	0.000	0.003	1.106
	Left	0.065	0.000	0.350	0.000	0.415

Table 11-132

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.543	1.090	0.034	1.561*
	Top	0.011	0.401	0.017	0.000	0.429
	Bottom	0.319	0.020	0.388	0.000	0.727
	Right	0.990	1.085	0.000	0.003	1.088*
	Left	0.002	0.000	1.003	0.000	1.005

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-133

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	1.090	0.034	1.567*
	Top	0.007	0.401	0.017	0.000	0.425
	Bottom	0.990	0.020	0.388	0.000	1.398
	Right	0.086	1.085	0.000	0.003	1.174
	Left	0.024	0.000	1.003	0.000	1.027

Table 11-134

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.139	1.090	0.034	1.124*
	Top	0.415	0.105	0.017	0.000	0.537
	Bottom	0.023	0.020	0.388	0.000	0.431
	Right	0.990	0.251	0.000	0.003	1.244
	Left	0.016	0.000	1.003	0.000	1.019

Table 11-135

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.139	1.090	0.034	1.163*
	Top	0.990	0.105	0.017	0.000	1.112
	Bottom	0.023	0.020	0.388	0.000	0.431
	Right	0.150	0.251	0.000	0.003	0.404
	Left	0.044	0.000	1.003	0.000	1.047

Table 11-136

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	2.4 GHz Bluetooth Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	1.090	0.034	1.567*
	Top	0.902	0.401	0.017	0.000	1.320
	Bottom	0.034	0.020	0.388	0.000	0.442
	Right	0.097	1.085	0.000	0.003	1.185
	Left	0.990	0.000	1.003	0.000	1.003*

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-137

Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.543	0.216	0.034	1.155*
	Top	0.004	0.401	0.016	0.000	0.421
	Bottom	0.262	0.020	0.080	0.000	0.362
	Right	0.000	1.085	0.000	0.003	1.088
	Left	0.990	0.000	0.203	0.000	1.193

Table 11-138

Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	0.216	0.034	1.24*
	Top	0.050	0.401	0.016	0.000	0.467
	Bottom	0.990	0.020	0.080	0.000	1.090
	Right	0.018	1.085	0.000	0.003	1.106
	Left	0.065	0.000	0.203	0.000	0.268

Table 11-139

Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.543	0.887	0.034	1.561*
	Top	0.011	0.401	0.016	0.000	0.428
	Bottom	0.319	0.020	0.312	0.000	0.651
	Right	0.990	1.085	0.000	0.003	1.088*
	Left	0.002	0.000	0.731	0.000	0.733

Table 11-140

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	0.887	0.034	1.567*
	Top	0.007	0.401	0.016	0.000	0.424
	Bottom	0.990	0.020	0.312	0.000	1.322
	Right	0.086	1.085	0.000	0.003	1.174
	Left	0.024	0.000	0.731	0.000	0.755

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-141

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.139	0.887	0.034	0.921*
	Top	0.415	0.105	0.016	0.000	0.536
	Bottom	0.023	0.020	0.312	0.000	0.355
	Right	0.990	0.251	0.000	0.003	1.244
	Left	0.016	0.000	0.731	0.000	0.747

Table 11-142

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	2.4 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.139	0.887	0.034	1.163*
	Top	0.990	0.105	0.016	0.000	1.111
	Bottom	0.023	0.020	0.312	0.000	0.355
	Right	0.150	0.251	0.000	0.003	0.404
	Left	0.044	0.000	0.731	0.000	0.775

Table 11-143

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WIFI Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.543	0.887	0.034	1.567*
	Top	0.902	0.401	0.016	0.000	1.319
	Bottom	0.034	0.020	0.312	0.000	0.366
	Right	0.097	1.085	0.000	0.003	1.185
	Left	0.990	0.000	0.731	0.000	0.99*

Table 11-144

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.905	0.478	0.034	1.417
	Top	0.004	0.323	0.000	0.327
	Bottom	0.262	0.017	0.000	0.279
	Right	0.000	1.004	0.003	1.007
	Left	0.990	0.000	0.000	0.990

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-145

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	0.478	0.034	1.502
	Top	0.050	0.323	0.000	0.373
	Bottom	0.990	0.017	0.000	1.007
	Right	0.018	1.004	0.003	1.025
	Left	0.065	0.000	0.000	0.065

Table 11-146

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.984	0.478	0.034	1.496
	Top	0.011	0.323	0.000	0.334
	Bottom	0.319	0.017	0.000	0.336
	Right	0.990	1.004	0.003	1.007*
	Left	0.002	0.000	0.000	0.002

Table 11-147

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	0.478	0.034	1.502
	Top	0.007	0.323	0.000	0.330
	Bottom	0.990	0.017	0.000	1.007
	Right	0.086	1.004	0.003	1.093
	Left	0.024	0.000	0.000	0.024

Table 11-148

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.599	0.257	0.034	0.890
	Top	0.415	0.183	0.000	0.598
	Bottom	0.023	0.017	0.000	0.040
	Right	0.990	0.536	0.003	1.529
	Left	0.016	0.000	0.000	0.016

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-149

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	0.257	0.034	1.281
	Top	0.990	0.183	0.000	1.173
	Bottom	0.023	0.017	0.000	0.040
	Right	0.150	0.536	0.003	0.689
	Left	0.044	0.000	0.000	0.044

Table 11-150

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	0.478	0.034	1.502
	Top	0.902	0.323	0.000	1.225
	Bottom	0.034	0.017	0.000	0.051
	Right	0.097	1.004	0.003	1.104
	Left	0.990	0.000	0.000	0.990

Table 11-151

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.257	0.396	1.089	0.034	1.38*
	Top	0.004	0.183	1.088	0.149	0.000	1.424
	Bottom	0.262	0.017	0.007	0.003	0.000	0.289
	Right	0.000	0.536	0.007	0.565	0.003	1.111
	Left	0.990	0.000	0.140	0.000	0.000	1.130

Table 11-152

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.396	1.089	0.034	1.42*
	Top	0.050	0.183	1.088	0.149	0.000	1.470
	Bottom	0.990	0.017	0.007	0.003	0.000	1.017
	Right	0.018	0.536	0.007	0.565	0.003	1.129
	Left	0.065	0.000	0.140	0.000	0.000	0.205

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-153

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.216	0.396	1.089	0.034	1.551*
	Top	0.004	0.016	1.088	0.149	0.000	1.257
	Bottom	0.262	0.080	0.007	0.003	0.000	0.352
	Right	0.000	0.000	0.007	0.565	0.003	0.575
	Left	0.990	0.203	0.140	0.000	0.000	1.333

Table 11-154

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	0.396	1.089	0.034	1.519*
	Top	0.050	0.016	1.088	0.149	0.000	1.303
	Bottom	0.990	0.080	0.007	0.003	0.000	1.080
	Right	0.018	0.000	0.007	0.565	0.003	0.593
	Left	0.065	0.203	0.140	0.000	0.000	0.408

Table 11-155

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.257	1.089	0.271	0.034	1.38*
	Top	0.004	0.183	0.149	0.000	0.000	0.336
	Bottom	0.262	0.017	0.003	0.156	0.000	0.438
	Right	0.000	0.536	0.565	0.012	0.003	1.116
	Left	0.990	0.000	0.000	0.070	0.000	1.060

Table 11-156

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	1.089	0.271	0.034	1.38*
	Top	0.050	0.183	0.149	0.000	0.000	0.382
	Bottom	0.990	0.017	0.003	0.156	0.000	1.166
	Right	0.018	0.536	0.565	0.012	0.003	1.134
	Left	0.065	0.000	0.000	0.070	0.000	0.135

Table 11-157

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.125	1.089	0.271	0.034	1.335*
	Top	0.004	0.016	0.149	0.000	0.000	0.169
	Bottom	0.262	0.041	0.003	0.156	0.000	0.462
	Right	0.000	0.000	0.565	0.012	0.003	0.580
	Left	0.990	0.113	0.000	0.070	0.000	1.173

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-158

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	1.089	0.271	0.034	1.42*
	Top	0.050	0.016	0.149	0.000	0.000	0.215
	Bottom	0.990	0.041	0.003	0.156	0.000	1.190
	Right	0.018	0.000	0.565	0.012	0.003	0.598
	Left	0.065	0.113	0.000	0.070	0.000	0.248

Table 11-159

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.257	0.271	0.396	0.034	1.467*
	Top	0.004	0.183	0.000	1.088	0.000	1.275
	Bottom	0.262	0.017	0.156	0.007	0.000	0.442
	Right	0.000	0.536	0.012	0.007	0.003	0.558
	Left	0.990	0.000	0.070	0.140	0.000	1.200

Table 11-160

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.271	0.396	0.034	1.552*
	Top	0.050	0.183	0.000	1.088	0.000	1.321
	Bottom	0.990	0.017	0.156	0.007	0.000	1.170
	Right	0.018	0.536	0.012	0.007	0.003	0.576
	Left	0.065	0.000	0.070	0.140	0.000	0.275

Table 11-161

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.125	0.271	0.396	0.034	1.335*
	Top	0.004	0.016	0.000	1.088	0.000	1.108
	Bottom	0.262	0.041	0.156	0.007	0.000	0.466
	Right	0.000	0.000	0.012	0.007	0.003	0.022
	Left	0.990	0.113	0.070	0.140	0.000	1.313

Table 11-162

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	0.271	0.396	0.034	1.42*
	Top	0.050	0.016	0.000	1.088	0.000	1.154
	Bottom	0.990	0.041	0.156	0.007	0.000	1.194
	Right	0.018	0.000	0.012	0.007	0.003	0.040
	Left	0.065	0.113	0.070	0.140	0.000	0.388

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-163

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.257	0.396	1.089	0.034	1.414*
	Top	0.011	0.183	1.088	0.149	0.000	1.431
	Bottom	0.319	0.017	0.007	0.003	0.000	0.346
	Right	0.990	0.536	0.007	0.565	0.003	1.111*
	Left	0.002	0.000	0.140	0.000	0.000	0.142

Table 11-164

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.396	1.089	0.034	1.42*
	Top	0.007	0.183	1.088	0.149	0.000	1.427
	Bottom	0.990	0.017	0.007	0.003	0.000	1.017
	Right	0.086	0.536	0.007	0.565	0.003	1.197
	Left	0.024	0.000	0.140	0.000	0.000	0.164

Table 11-165

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.887	0.396	1.089	0.034	1.519*
	Top	0.011	0.016	1.088	0.149	0.000	1.264
	Bottom	0.319	0.312	0.007	0.003	0.000	0.641
	Right	0.990	0.000	0.007	0.565	0.003	1.565
	Left	0.002	0.731	0.140	0.000	0.000	0.873

Table 11-166

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.887	0.396	1.089	0.034	1.519*
	Top	0.007	0.016	1.088	0.149	0.000	1.260
	Bottom	0.990	0.312	0.007	0.003	0.000	1.312
	Right	0.086	0.000	0.007	0.565	0.003	0.661
	Left	0.024	0.731	0.140	0.000	0.000	0.895

Table 11-167

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.257	1.089	0.271	0.034	1.38*
	Top	0.011	0.183	0.149	0.000	0.000	0.343
	Bottom	0.319	0.017	0.003	0.156	0.000	0.495
	Right	0.990	0.536	0.565	0.012	0.003	1.116*
	Left	0.002	0.000	0.000	0.070	0.000	0.072

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-168

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	1.089	0.271	0.034	1.38*
	Top	0.007	0.183	0.149	0.000	0.000	0.339
	Bottom	0.990	0.017	0.003	0.156	0.000	1.166
	Right	0.086	0.536	0.565	0.012	0.003	1.202
	Left	0.024	0.000	0.000	0.070	0.000	0.094

Table 11-169

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.125	1.089	0.271	0.034	1.519*
	Top	0.011	0.016	0.149	0.000	0.000	0.176
	Bottom	0.319	0.041	0.003	0.156	0.000	0.519
	Right	0.990	0.000	0.565	0.012	0.003	1.570
	Left	0.002	0.113	0.000	0.070	0.000	0.185

Table 11-170

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	1.089	0.271	0.034	1.519*
	Top	0.007	0.016	0.149	0.000	0.000	0.172
	Bottom	0.990	0.041	0.003	0.156	0.000	1.190
	Right	0.086	0.000	0.565	0.012	0.003	0.666
	Left	0.024	0.113	0.000	0.070	0.000	0.207

Table 11-171

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.257	0.271	0.396	0.034	1.546*
	Top	0.011	0.183	0.000	1.088	0.000	1.282
	Bottom	0.319	0.017	0.156	0.007	0.000	0.499
	Right	0.990	0.536	0.012	0.007	0.003	1.548
	Left	0.002	0.000	0.070	0.140	0.000	0.212

Table 11-172

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.271	0.396	0.034	1.552*
	Top	0.007	0.183	0.000	1.088	0.000	1.278
	Bottom	0.990	0.017	0.156	0.007	0.000	1.170
	Right	0.086	0.536	0.012	0.007	0.003	0.644
	Left	0.024	0.000	0.070	0.140	0.000	0.234

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-173

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.125	0.271	0.396	0.034	1.414*
	Top	0.011	0.016	0.000	1.088	0.000	1.115
	Bottom	0.319	0.041	0.156	0.007	0.000	0.523
	Right	0.990	0.000	0.012	0.007	0.003	1.012
	Left	0.002	0.113	0.070	0.140	0.000	0.325

Table 11-174

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	0.271	0.396	0.034	1.42*
	Top	0.007	0.016	0.000	1.088	0.000	1.111
	Bottom	0.990	0.041	0.156	0.007	0.000	1.194
	Right	0.086	0.000	0.012	0.007	0.003	0.108
	Left	0.024	0.113	0.070	0.140	0.000	0.347

Table 11-175

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.189	0.086	0.242	0.034	1.150
	Top	0.415	0.135	0.207	0.027	0.000	0.784
	Bottom	0.023	0.017	0.007	0.003	0.000	0.050
	Right	0.990	0.346	0.007	0.106	0.003	1.452
	Left	0.016	0.000	0.034	0.000	0.000	0.050

Table 11-176

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	0.086	0.242	0.034	1.541
	Top	0.990	0.135	0.207	0.027	0.000	1.359
	Bottom	0.023	0.017	0.007	0.003	0.000	0.050
	Right	0.150	0.346	0.007	0.106	0.003	0.612
	Left	0.044	0.000	0.034	0.000	0.000	0.078

Table 11-177

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.887	0.086	0.242	0.034	1.007*
	Top	0.415	0.016	0.207	0.027	0.000	0.665
	Bottom	0.023	0.312	0.007	0.003	0.000	0.345
	Right	0.990	0.000	0.007	0.106	0.003	1.106
	Left	0.016	0.731	0.034	0.000	0.000	0.781

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-178

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.887	0.086	0.242	0.034	1.352*
	Top	0.990	0.016	0.207	0.027	0.000	1.240
	Bottom	0.023	0.312	0.007	0.003	0.000	0.345
	Right	0.150	0.000	0.007	0.106	0.003	0.266
	Left	0.044	0.731	0.034	0.000	0.000	0.809

Table 11-179

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.189	0.242	1.090	0.034	1.124*
	Top	0.415	0.135	0.027	0.000	0.000	0.577
	Bottom	0.023	0.017	0.003	0.611	0.000	0.654
	Right	0.990	0.346	0.106	0.012	0.003	1.457
	Left	0.016	0.000	0.000	0.070	0.000	0.086

Table 11-180

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	0.242	1.090	0.034	1.455*
	Top	0.990	0.135	0.027	0.000	0.000	1.152
	Bottom	0.023	0.017	0.003	0.611	0.000	0.654
	Right	0.150	0.346	0.106	0.012	0.003	0.617
	Left	0.044	0.000	0.000	0.070	0.000	0.114

Table 11-181

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.216	0.242	1.090	0.034	1.34*
	Top	0.415	0.016	0.027	0.000	0.000	0.458
	Bottom	0.023	0.080	0.003	0.611	0.000	0.717
	Right	0.990	0.000	0.106	0.012	0.003	1.111
	Left	0.016	0.203	0.000	0.070	0.000	0.289

Table 11-182

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	0.242	1.090	0.034	1.34*
	Top	0.990	0.016	0.027	0.000	0.000	1.033
	Bottom	0.023	0.080	0.003	0.611	0.000	0.717
	Right	0.150	0.000	0.106	0.012	0.003	0.271
	Left	0.044	0.203	0.000	0.070	0.000	0.317

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-183

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.189	1.090	0.086	0.034	1.21*
	Top	0.415	0.135	0.000	0.207	0.000	0.757
	Bottom	0.023	0.017	0.611	0.007	0.000	0.658
	Right	0.990	0.346	0.012	0.007	0.003	1.358
	Left	0.016	0.000	0.070	0.034	0.000	0.120

Table 11-184

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	1.090	0.086	0.034	1.299*
	Top	0.990	0.135	0.000	0.207	0.000	1.332
	Bottom	0.023	0.017	0.611	0.007	0.000	0.658
	Right	0.150	0.346	0.012	0.007	0.003	0.518
	Left	0.044	0.000	0.070	0.034	0.000	0.148

Table 11-185

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.216	1.090	0.086	0.034	1.426*
	Top	0.415	0.016	0.000	0.207	0.000	0.638
	Bottom	0.023	0.080	0.611	0.007	0.000	0.721
	Right	0.990	0.000	0.012	0.007	0.003	1.012
	Left	0.016	0.203	0.070	0.034	0.000	0.323

Table 11-186

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	1.090	0.086	0.034	1.34*
	Top	0.990	0.016	0.000	0.207	0.000	1.213
	Bottom	0.023	0.080	0.611	0.007	0.000	0.721
	Right	0.150	0.000	0.012	0.007	0.003	0.172
	Left	0.044	0.203	0.070	0.034	0.000	0.351

Table 11-187

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	0.086	1.089	0.034	1.398*
	Top	0.902	0.135	0.207	0.149	0.000	1.393
	Bottom	0.034	0.017	0.007	0.003	0.000	0.061
	Right	0.097	0.346	0.007	0.565	0.003	1.018
	Left	0.990	0.000	0.034	0.000	0.000	1.024

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 11-188

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.887	0.086	1.089	0.034	1.209*
	Top	0.902	0.016	0.207	0.149	0.000	1.274
	Bottom	0.034	0.312	0.007	0.003	0.000	0.356
	Right	0.097	0.000	0.007	0.565	0.003	0.672
	Left	0.990	0.731	0.034	0.000	0.000	1.024*

Table 11-189

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	1.089	1.090	0.034	1.312*
	Top	0.902	0.135	0.149	0.000	0.000	1.186
	Bottom	0.034	0.017	0.003	0.611	0.000	0.665
	Right	0.097	0.346	0.565	0.012	0.003	1.023
	Left	0.990	0.000	0.000	0.070	0.000	1.060

Table 11-190

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	1.089	1.090	0.034	1.34*
	Top	0.902	0.016	0.149	0.000	0.000	1.067
	Bottom	0.034	0.080	0.003	0.611	0.000	0.728
	Right	0.097	0.000	0.565	0.012	0.003	0.677
	Left	0.990	0.203	0.000	0.070	0.000	1.263

Table 11-191

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	1.090	0.086	0.034	1.399*
	Top	0.902	0.135	0.000	0.207	0.000	1.244
	Bottom	0.034	0.017	0.611	0.007	0.000	0.669
	Right	0.097	0.346	0.012	0.007	0.003	0.465
	Left	0.990	0.000	0.070	0.034	0.000	1.094

Table 11-192

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	1.090	0.086	0.034	1.426*
	Top	0.902	0.016	0.000	0.207	0.000	1.125
	Bottom	0.034	0.080	0.611	0.007	0.000	0.732
	Right	0.097	0.000	0.012	0.007	0.003	0.119
	Left	0.990	0.203	0.070	0.034	0.000	1.297

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-193

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.257	0.136	1.075	0.034	1.502*
	Top	0.004	0.183	1.083	0.157	0.000	1.427
	Bottom	0.262	0.017	0.012	0.003	0.000	0.294
	Right	0.000	0.536	0.015	0.586	0.003	1.140
	Left	0.990	0.000	0.022	0.001	0.000	1.013

Table 11-194

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.136	1.075	0.034	1.502*
	Top	0.050	0.183	1.083	0.157	0.000	1.473
	Bottom	0.990	0.017	0.012	0.003	0.000	1.022
	Right	0.018	0.536	0.015	0.586	0.003	1.158
	Left	0.065	0.000	0.022	0.001	0.000	0.088

Table 11-195

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.216	0.136	1.075	0.034	1.291*
	Top	0.004	0.016	1.083	0.157	0.000	1.260
	Bottom	0.262	0.080	0.012	0.003	0.000	0.357
	Right	0.000	0.000	0.015	0.586	0.003	0.604
	Left	0.990	0.203	0.022	0.001	0.000	1.216

Table 11-196

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	0.136	1.075	0.034	1.376*
	Top	0.050	0.016	1.083	0.157	0.000	1.306
	Bottom	0.990	0.080	0.012	0.003	0.000	1.085
	Right	0.018	0.000	0.015	0.586	0.003	0.622
	Left	0.065	0.203	0.022	0.001	0.000	0.291

Table 11-197

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.257	1.075	0.299	0.034	1.366*
	Top	0.004	0.183	0.157	0.000	0.000	0.344
	Bottom	0.262	0.017	0.003	0.252	0.000	0.534
	Right	0.000	0.536	0.586	0.000	0.003	1.125
	Left	0.990	0.000	0.001	0.080	0.000	1.071

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-198

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	1.075	0.299	0.034	1.366*
	Top	0.050	0.183	0.157	0.000	0.000	0.390
	Bottom	0.990	0.017	0.003	0.252	0.000	1.262
	Right	0.018	0.536	0.586	0.000	0.003	1.143
	Left	0.065	0.000	0.001	0.080	0.000	0.146

Table 11-199

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.125	1.075	0.299	0.034	1.363*
	Top	0.004	0.016	0.157	0.000	0.000	0.177
	Bottom	0.262	0.041	0.003	0.252	0.000	0.558
	Right	0.000	0.000	0.586	0.000	0.003	0.589
	Left	0.990	0.113	0.001	0.080	0.000	1.184

Table 11-200

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	1.075	0.299	0.034	1.448*
	Top	0.050	0.016	0.157	0.000	0.000	0.223
	Bottom	0.990	0.041	0.003	0.252	0.000	1.286
	Right	0.018	0.000	0.586	0.000	0.003	0.607
	Left	0.065	0.113	0.001	0.080	0.000	0.259

Table 11-201

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.257	0.299	0.136	0.034	1.495*
	Top	0.004	0.183	0.000	1.083	0.000	1.270
	Bottom	0.262	0.017	0.252	0.012	0.000	0.543
	Right	0.000	0.536	0.000	0.015	0.003	0.554
	Left	0.990	0.000	0.080	0.022	0.000	1.092

Table 11-202

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.299	0.136	0.034	1.58*
	Top	0.050	0.183	0.000	1.083	0.000	1.316
	Bottom	0.990	0.017	0.252	0.012	0.000	1.271
	Right	0.018	0.536	0.000	0.015	0.003	0.572
	Left	0.065	0.000	0.080	0.022	0.000	0.167

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-203

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.905	0.125	0.299	0.136	0.034	1.499
	Top	0.004	0.016	0.000	1.083	0.000	1.103
	Bottom	0.262	0.041	0.252	0.012	0.000	0.567
	Right	0.000	0.000	0.000	0.015	0.003	0.018
	Left	0.990	0.113	0.080	0.022	0.000	1.205

Table 11-204

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	0.299	0.136	0.034	1.584
	Top	0.050	0.016	0.000	1.083	0.000	1.149
	Bottom	0.990	0.041	0.252	0.012	0.000	1.295
	Right	0.018	0.000	0.000	0.015	0.003	0.036
	Left	0.065	0.113	0.080	0.022	0.000	0.280

Table 11-205

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.257	0.136	1.075	0.034	1.502*
	Top	0.011	0.183	1.083	0.157	0.000	1.434
	Bottom	0.319	0.017	0.012	0.003	0.000	0.351
	Right	0.990	0.536	0.015	0.586	0.003	1.14*
	Left	0.002	0.000	0.022	0.001	0.000	0.025

Table 11-206

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.136	1.075	0.034	1.502*
	Top	0.007	0.183	1.083	0.157	0.000	1.430
	Bottom	0.990	0.017	0.012	0.003	0.000	1.022
	Right	0.086	0.536	0.015	0.586	0.003	1.226
	Left	0.024	0.000	0.022	0.001	0.000	0.047

Table 11-207

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.887	0.136	1.075	0.034	1.245*
	Top	0.011	0.016	1.083	0.157	0.000	1.267
	Bottom	0.319	0.312	0.012	0.003	0.000	0.646
	Right	0.990	0.000	0.015	0.586	0.003	1.594
	Left	0.002	0.731	0.022	0.001	0.000	0.756

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-208

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.887	0.136	1.075	0.034	1.245*
	Top	0.007	0.016	1.083	0.157	0.000	1.263
	Bottom	0.990	0.312	0.012	0.003	0.000	1.317
	Right	0.086	0.000	0.015	0.586	0.003	0.690
	Left	0.024	0.731	0.022	0.001	0.000	0.778

Table 11-209

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.257	1.075	0.299	0.034	1.366*
	Top	0.011	0.183	0.157	0.000	0.000	0.351
	Bottom	0.319	0.017	0.003	0.252	0.000	0.591
	Right	0.990	0.536	0.586	0.000	0.003	1.125*
	Left	0.002	0.000	0.001	0.080	0.000	0.083

Table 11-210

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	1.075	0.299	0.034	1.366*
	Top	0.007	0.183	0.157	0.000	0.000	0.347
	Bottom	0.990	0.017	0.003	0.252	0.000	1.262
	Right	0.086	0.536	0.586	0.000	0.003	1.211
	Left	0.024	0.000	0.001	0.080	0.000	0.105

Table 11-211

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.125	1.075	0.299	0.034	1.533*
	Top	0.011	0.016	0.157	0.000	0.000	0.184
	Bottom	0.319	0.041	0.003	0.252	0.000	0.615
	Right	0.990	0.000	0.586	0.000	0.003	1.579
	Left	0.002	0.113	0.001	0.080	0.000	0.196

Table 11-212

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	1.075	0.299	0.034	1.533*
	Top	0.007	0.016	0.157	0.000	0.000	0.180
	Bottom	0.990	0.041	0.003	0.252	0.000	1.286
	Right	0.086	0.000	0.586	0.000	0.003	0.675
	Left	0.024	0.113	0.001	0.080	0.000	0.218

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-213

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.257	0.299	0.136	0.034	1.574*
	Top	0.011	0.183	0.000	1.083	0.000	1.277
	Bottom	0.319	0.017	0.252	0.012	0.000	0.600
	Right	0.990	0.536	0.000	0.015	0.003	1.544
	Left	0.002	0.000	0.080	0.022	0.000	0.104

Table 11-214

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.257	0.299	0.136	0.034	1.58*
	Top	0.007	0.183	0.000	1.083	0.000	1.273
	Bottom	0.990	0.017	0.252	0.012	0.000	1.271
	Right	0.086	0.536	0.000	0.015	0.003	0.640
	Left	0.024	0.000	0.080	0.022	0.000	0.126

Table 11-215

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.984	0.125	0.299	0.136	0.034	1.578
	Top	0.011	0.016	0.000	1.083	0.000	1.110
	Bottom	0.319	0.041	0.252	0.012	0.000	0.624
	Right	0.990	0.000	0.000	0.015	0.003	1.008
	Left	0.002	0.113	0.080	0.022	0.000	0.217

Table 11-216

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 1a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.125	0.299	0.136	0.034	1.584
	Top	0.007	0.016	0.000	1.083	0.000	1.106
	Bottom	0.990	0.041	0.252	0.012	0.000	1.295
	Right	0.086	0.000	0.000	0.015	0.003	0.104
	Left	0.024	0.113	0.080	0.022	0.000	0.239

Table 11-217

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.189	0.018	0.229	0.034	1.069
	Top	0.415	0.135	0.172	0.052	0.000	0.774
	Bottom	0.023	0.017	0.012	0.003	0.000	0.055
	Right	0.990	0.346	0.015	0.127	0.003	1.481
	Left	0.016	0.000	0.022	0.001	0.000	0.039

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-218

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	0.018	0.229	0.034	1.460
	Top	0.990	0.135	0.172	0.052	0.000	1.349
	Bottom	0.023	0.017	0.012	0.003	0.000	0.055
	Right	0.150	0.346	0.015	0.127	0.003	0.641
	Left	0.044	0.000	0.022	0.001	0.000	0.067

Table 11-219

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.887	0.018	0.229	0.034	0.939*
	Top	0.415	0.016	0.172	0.052	0.000	0.655
	Bottom	0.023	0.312	0.012	0.003	0.000	0.350
	Right	0.990	0.000	0.015	0.127	0.003	1.135
	Left	0.016	0.731	0.022	0.001	0.000	0.770

Table 11-220

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.887	0.018	0.229	0.034	1.271*
	Top	0.990	0.016	0.172	0.052	0.000	1.230
	Bottom	0.023	0.312	0.012	0.003	0.000	0.350
	Right	0.150	0.000	0.015	0.127	0.003	0.295
	Left	0.044	0.731	0.022	0.001	0.000	0.798

Table 11-221

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.189	0.229	1.074	0.034	1.108*
	Top	0.415	0.135	0.052	0.000	0.000	0.602
	Bottom	0.023	0.017	0.003	0.798	0.000	0.841
	Right	0.990	0.346	0.127	0.000	0.003	1.466
	Left	0.016	0.000	0.001	0.080	0.000	0.097

Table 11-222

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	0.229	1.074	0.034	1.442*
	Top	0.990	0.135	0.052	0.000	0.000	1.177
	Bottom	0.023	0.017	0.003	0.798	0.000	0.841
	Right	0.150	0.346	0.127	0.000	0.003	0.626
	Left	0.044	0.000	0.001	0.080	0.000	0.125

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-223

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.216	0.229	1.074	0.034	1.324*
	Top	0.415	0.016	0.052	0.000	0.000	0.483
	Bottom	0.023	0.080	0.003	0.798	0.000	0.904
	Right	0.990	0.000	0.127	0.000	0.003	1.120
	Left	0.016	0.203	0.001	0.080	0.000	0.300

Table 11-224

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	0.229	1.074	0.034	1.324*
	Top	0.990	0.016	0.052	0.000	0.000	1.058
	Bottom	0.023	0.080	0.003	0.798	0.000	0.904
	Right	0.150	0.000	0.127	0.000	0.003	0.280
	Left	0.044	0.203	0.001	0.080	0.000	0.328

Table 11-225

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.189	1.074	0.018	0.034	1.126*
	Top	0.415	0.135	0.000	0.172	0.000	0.722
	Bottom	0.023	0.017	0.798	0.012	0.000	0.850
	Right	0.990	0.346	0.000	0.015	0.003	1.354
	Left	0.016	0.000	0.080	0.022	0.000	0.118

Table 11-226

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	1.074	0.018	0.034	1.231*
	Top	0.990	0.135	0.000	0.172	0.000	1.297
	Bottom	0.023	0.017	0.798	0.012	0.000	0.850
	Right	0.150	0.346	0.000	0.015	0.003	0.514
	Left	0.044	0.000	0.080	0.022	0.000	0.146

Table 11-227

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.599	0.216	1.074	0.018	0.034	1.342*
	Top	0.415	0.016	0.000	0.172	0.000	0.603
	Bottom	0.023	0.080	0.798	0.012	0.000	0.913
	Right	0.990	0.000	0.000	0.015	0.003	1.008
	Left	0.016	0.203	0.080	0.022	0.000	0.321

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-228

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	1.074	0.018	0.034	1.324*
	Top	0.990	0.016	0.000	0.172	0.000	1.178
	Bottom	0.023	0.080	0.798	0.012	0.000	0.913
	Right	0.150	0.000	0.000	0.015	0.003	0.168
	Left	0.044	0.203	0.080	0.022	0.000	0.349

Table 11-229

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	0.018	1.075	0.034	1.316*
	Top	0.902	0.135	0.172	0.157	0.000	1.366
	Bottom	0.034	0.017	0.012	0.003	0.000	0.066
	Right	0.097	0.346	0.015	0.586	0.003	1.047
	Left	0.990	0.000	0.022	0.001	0.000	1.013

Table 11-230

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.887	0.018	1.075	0.034	1.127*
	Top	0.902	0.016	0.172	0.157	0.000	1.247
	Bottom	0.034	0.312	0.012	0.003	0.000	0.361
	Right	0.097	0.000	0.015	0.586	0.003	0.701
	Left	0.990	0.731	0.022	0.001	0.000	1.013*

Table 11-231

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	1.075	1.074	0.034	1.298*
	Top	0.902	0.135	0.157	0.000	0.000	1.194
	Bottom	0.034	0.017	0.003	0.798	0.000	0.852
	Right	0.097	0.346	0.586	0.000	0.003	1.032
	Left	0.990	0.000	0.001	0.080	0.000	1.071

Table 11-232

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	1.075	1.074	0.034	1.324*
	Top	0.902	0.016	0.157	0.000	0.000	1.075
	Bottom	0.034	0.080	0.003	0.798	0.000	0.915
	Right	0.097	0.000	0.586	0.000	0.003	0.686
	Left	0.990	0.203	0.001	0.080	0.000	1.274

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-233

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.189	1.074	0.018	0.034	1.315*
	Top	0.902	0.135	0.000	0.172	0.000	1.209
	Bottom	0.034	0.017	0.798	0.012	0.000	0.861
	Right	0.097	0.346	0.000	0.015	0.003	0.461
	Left	0.990	0.000	0.080	0.022	0.000	1.092

Table 11-234

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.216	1.074	0.018	0.034	1.342*
	Top	0.902	0.016	0.000	0.172	0.000	1.090
	Bottom	0.034	0.080	0.798	0.012	0.000	0.924
	Right	0.097	0.000	0.000	0.015	0.003	0.115
	Left	0.990	0.203	0.080	0.022	0.000	1.295

Table 11-235

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.478	0.271	0.034	1.21*
	Top	0.004	0.323	0.000	0.000	0.327
	Bottom	0.262	0.017	0.156	0.000	0.435
	Right	0.000	1.004	0.012	0.003	1.019
	Left	0.990	0.000	0.070	0.000	1.060

Table 11-236

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.478	0.271	0.034	1.295*
	Top	0.050	0.323	0.000	0.000	0.373
	Bottom	0.990	0.017	0.156	0.000	1.163
	Right	0.018	1.004	0.012	0.003	1.037
	Left	0.065	0.000	0.070	0.000	0.135

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-237

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.478	0.271	0.034	1.496*
	Top	0.011	0.323	0.000	0.000	0.334
	Bottom	0.319	0.017	0.156	0.000	0.492
	Right	0.990	1.004	0.012	0.003	1.019*
	Left	0.002	0.000	0.070	0.000	0.072

Table 11-238

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.478	0.271	0.034	1.502*
	Top	0.007	0.323	0.000	0.000	0.330
	Bottom	0.990	0.017	0.156	0.000	1.163
	Right	0.086	1.004	0.012	0.003	1.105
	Left	0.024	0.000	0.070	0.000	0.094

Table 11-239

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.257	1.090	0.034	1.124*
	Top	0.415	0.183	0.000	0.000	0.598
	Bottom	0.023	0.017	0.611	0.000	0.651
	Right	0.990	0.536	0.012	0.003	1.541
	Left	0.016	0.000	0.070	0.000	0.086

Table 11-240

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.257	1.090	0.034	1.281*
	Top	0.990	0.183	0.000	0.000	1.173
	Bottom	0.023	0.017	0.611	0.000	0.651
	Right	0.150	0.536	0.012	0.003	0.701
	Left	0.044	0.000	0.070	0.000	0.114

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-241

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.478	1.090	0.034	1.502*
	Top	0.902	0.323	0.000	0.000	1.225
	Bottom	0.034	0.017	0.611	0.000	0.662
	Right	0.097	1.004	0.012	0.003	1.116
	Left	0.990	0.000	0.070	0.000	1.060

Table 11-242

Cellular Band Ant 1a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.905	0.478	0.299	0.034	1.238*
	Top	0.004	0.323	0.000	0.000	0.327
	Bottom	0.262	0.017	0.252	0.000	0.531
	Right	0.000	1.004	0.000	0.003	1.007
	Left	0.990	0.000	0.080	0.000	1.070

Table 11-243

Cellular Band Ant 1b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.478	0.299	0.034	1.323*
	Top	0.050	0.323	0.000	0.000	0.373
	Bottom	0.990	0.017	0.252	0.000	1.259
	Right	0.018	1.004	0.000	0.003	1.025
	Left	0.065	0.000	0.080	0.000	0.145

Table 11-244

Cellular Band Ant 2a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.984	0.478	0.299	0.034	1.496*
	Top	0.011	0.323	0.000	0.000	0.334
	Bottom	0.319	0.017	0.252	0.000	0.588
	Right	0.990	1.004	0.000	0.003	1.007*
	Left	0.002	0.000	0.080	0.000	0.082

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-245

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b with 6 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.478	0.299	0.034	1.502*
	Top	0.007	0.323	0.000	0.000	0.330
	Bottom	0.990	0.017	0.252	0.000	1.259
	Right	0.086	1.004	0.000	0.003	1.093
	Left	0.024	0.000	0.080	0.000	0.104

Table 11-246

Cellular Band Ant 3a Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3a SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.599	0.257	1.074	0.034	1.108*
	Top	0.415	0.183	0.000	0.000	0.598
	Bottom	0.023	0.017	0.798	0.000	0.838
	Right	0.990	0.536	0.000	0.003	1.529
	Left	0.016	0.000	0.080	0.000	0.096

Table 11-247

Cellular Band Ant 3b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3b SAR (W/kg)	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.257	1.074	0.034	1.281*
	Top	0.990	0.183	0.000	0.000	1.173
	Bottom	0.023	0.017	0.798	0.000	0.838
	Right	0.150	0.536	0.000	0.003	0.689
	Left	0.044	0.000	0.080	0.000	0.124

Table 11-248

Cellular Band Ant 4 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	802.15.4 Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.478	1.074	0.034	1.586*
	Top	0.902	0.323	0.000	0.000	1.225
	Bottom	0.034	0.017	0.798	0.000	0.849
	Right	0.097	1.004	0.000	0.003	1.104
	Left	0.990	0.000	0.080	0.000	1.070

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-249

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 3a SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	1.089	1.090	0.034	1.38*
	Top	0.183	0.149	0.000	0.000	0.332
	Bottom	0.017	0.003	0.611	0.000	0.631
	Right	0.536	0.565	0.012	0.003	1.116
	Left	0.000	0.000	0.070	0.000	0.070

Table 11-250

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	1.090	0.396	0.034	1.52*
	Top	0.183	0.000	1.088	0.000	1.271
	Bottom	0.017	0.611	0.007	0.000	0.635
	Right	0.536	0.012	0.007	0.003	0.558
	Left	0.000	0.070	0.140	0.000	0.210

Table 11-251

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 1b SAR (W/kg)	5 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.216	1.090	0.396	0.034	1.34*
	Top	0.016	0.000	1.088	0.000	1.104
	Bottom	0.080	0.611	0.007	0.000	0.698
	Right	0.000	0.012	0.007	0.003	0.022
	Left	0.203	0.070	0.140	0.000	0.413

Table 11-252

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 3a SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	1.075	1.074	0.034	1.366*
	Top	0.183	0.157	0.000	0.000	0.340
	Bottom	0.017	0.003	0.798	0.000	0.818
	Right	0.536	0.586	0.000	0.003	1.125
	Left	0.000	0.001	0.080	0.000	0.081

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 11-253

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant 3a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.257	1.074	0.136	0.034	1.501
	Top	0.183	0.000	1.083	0.000	1.266
	Bottom	0.017	0.798	0.012	0.000	0.827
	Right	0.536	0.000	0.015	0.003	0.554
	Left	0.000	0.080	0.022	0.000	0.102

Table 11-254

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant 1a with 4.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 1b SAR (W/kg)	6 GHz WIFI Ant 3c SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.216	1.074	0.136	0.034	1.460
	Top	0.016	0.000	1.083	0.000	1.099
	Bottom	0.080	0.798	0.012	0.000	0.890
	Right	0.000	0.000	0.015	0.003	0.018
	Left	0.203	0.080	0.022	0.000	0.305

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

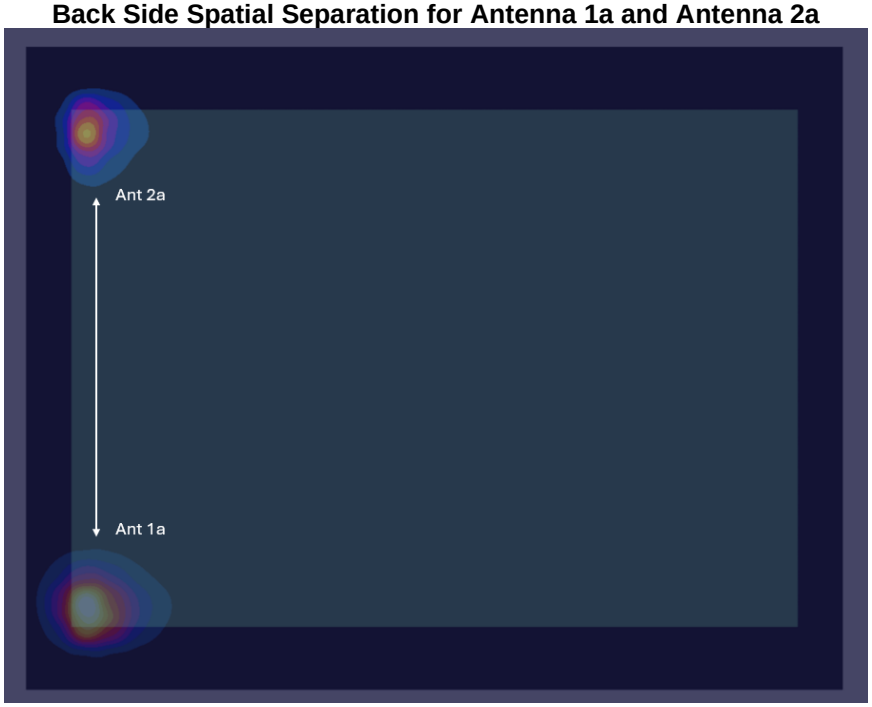
11.4 Spatial Separation Analysis

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

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

11.4.1 Back Side Spatial Separation Analysis

Figure 11-1
Back Side Spatial Separation for Antenna 1a and Antenna 2a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-2
Back Side Spatial Separation for Antenna 1a and Antenna 2b

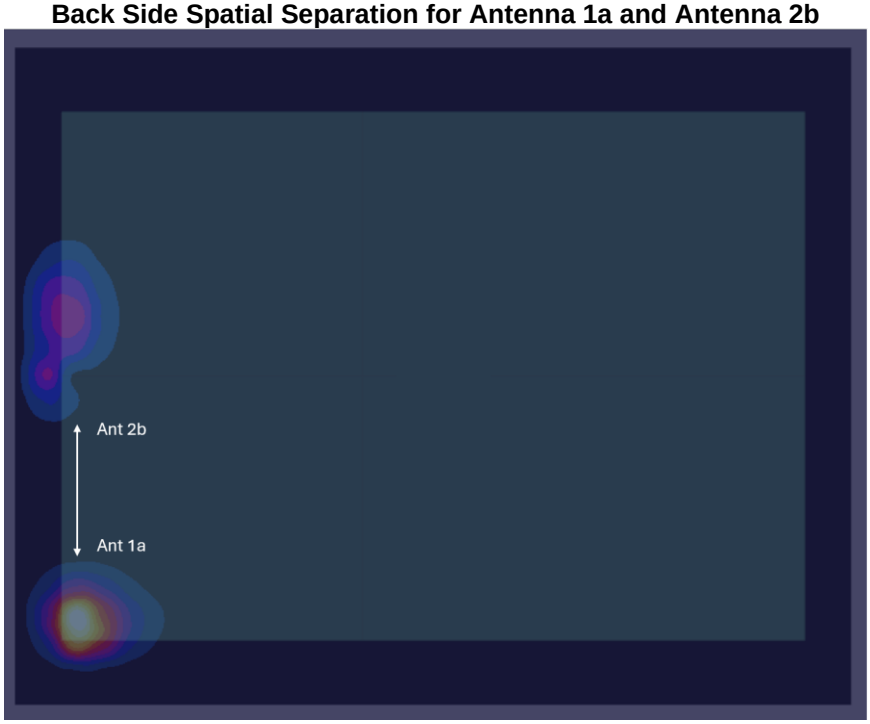
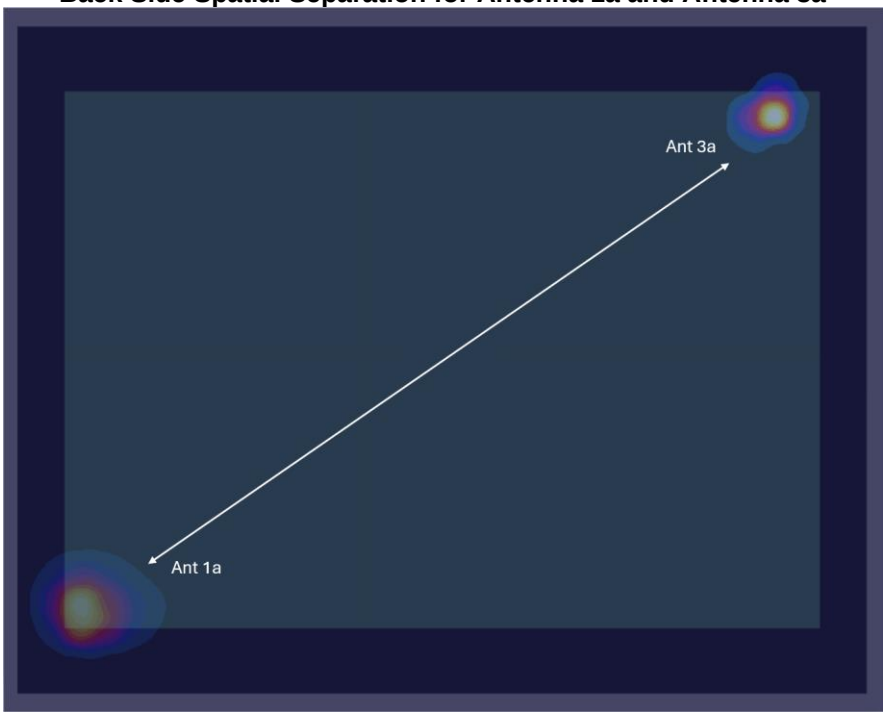


Figure 11-3
Back Side Spatial Separation for Antenna 1a and Antenna 3a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-4
Back Side Spatial Separation for Antenna 1a and Antenna 3b

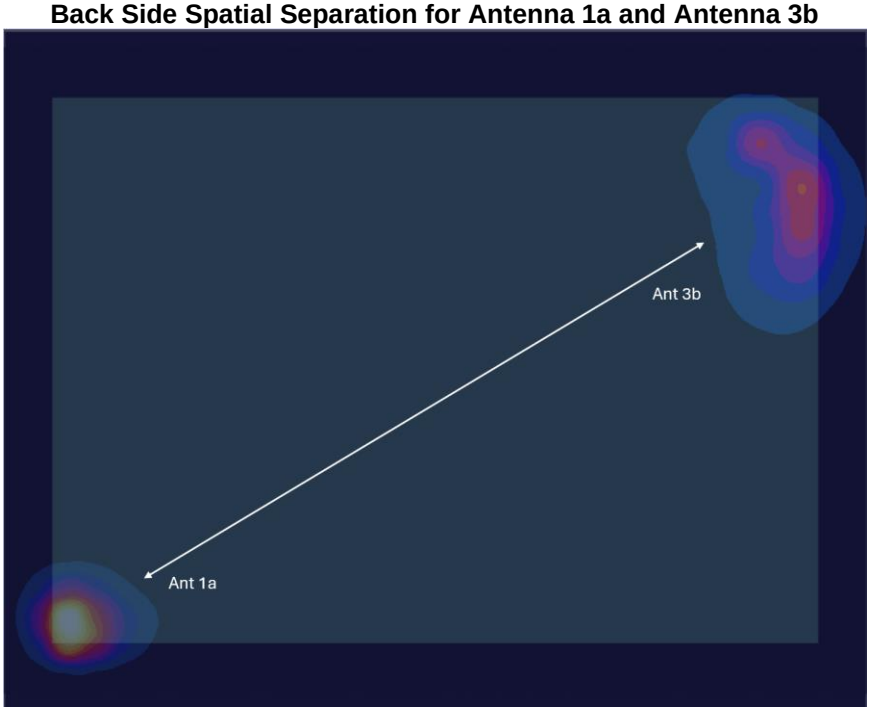
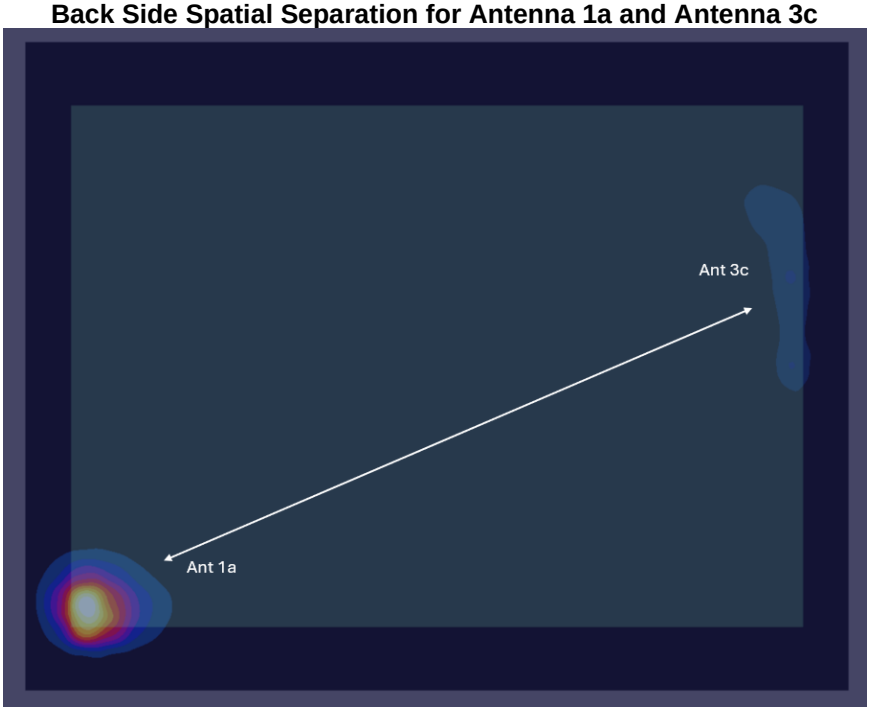


Figure 11-5
Back Side Spatial Separation for Antenna 1a and Antenna 3c



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-6
Back Side Spatial Separation for Antenna 1a and Antenna 4

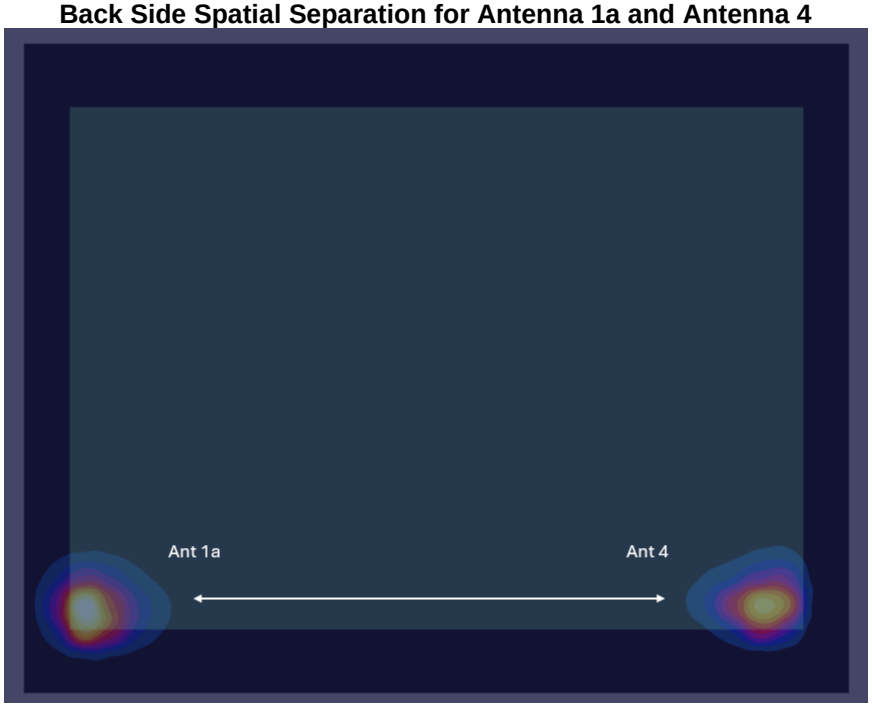
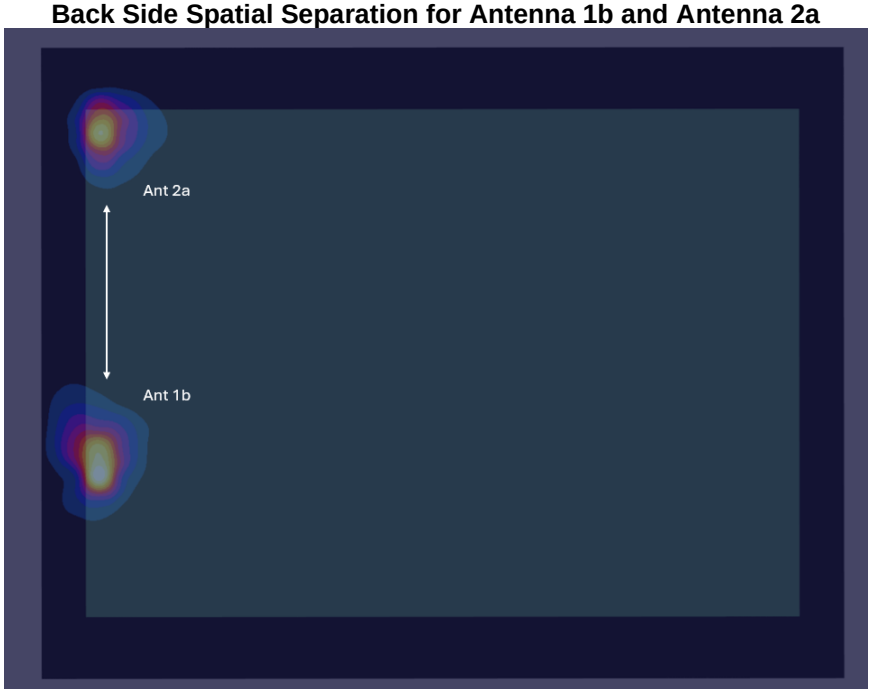


Figure 11-7
Back Side Spatial Separation for Antenna 1b and Antenna 2a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-8
Back Side Spatial Separation for Antenna 1b and Antenna 2b

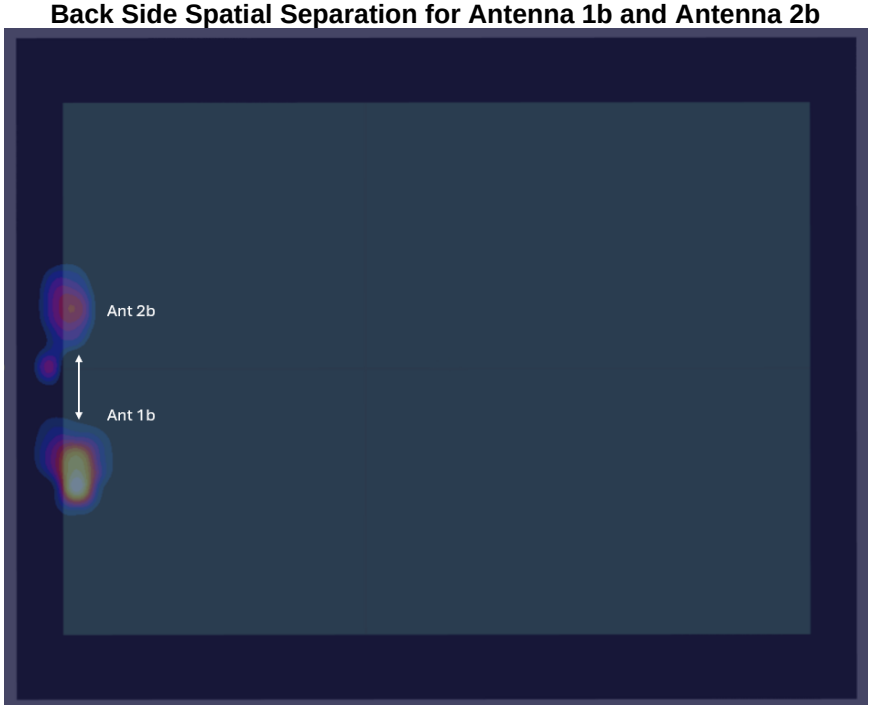
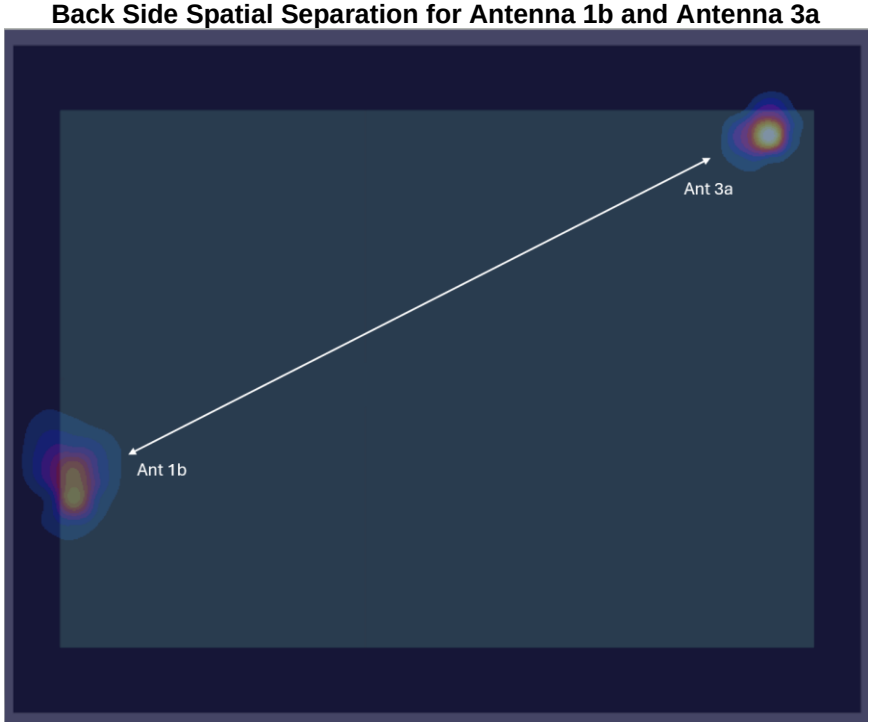


Figure 11-9
Back Side Spatial Separation for Antenna 1b and Antenna 3a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-10
Back Side Spatial Separation for Antenna 1b and Antenna 3b

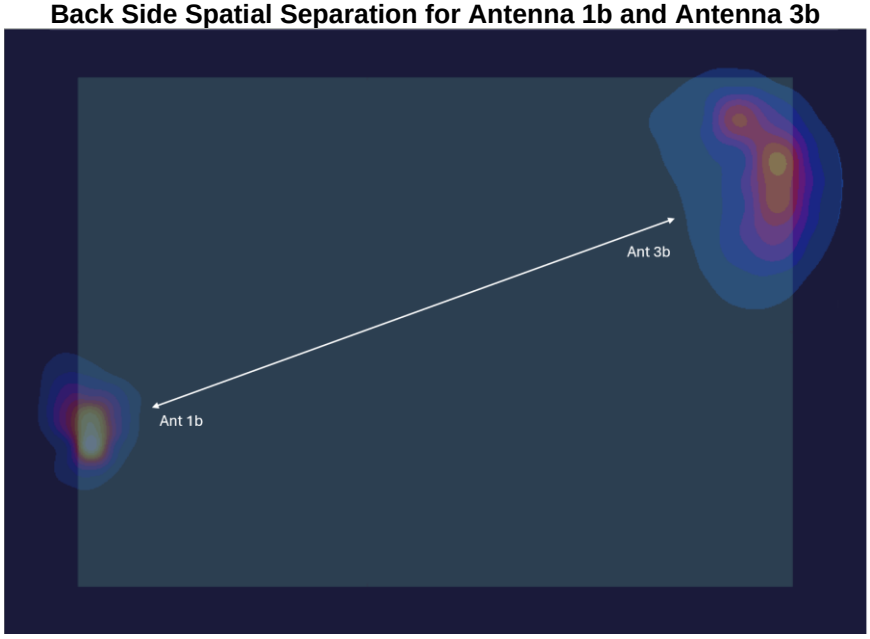
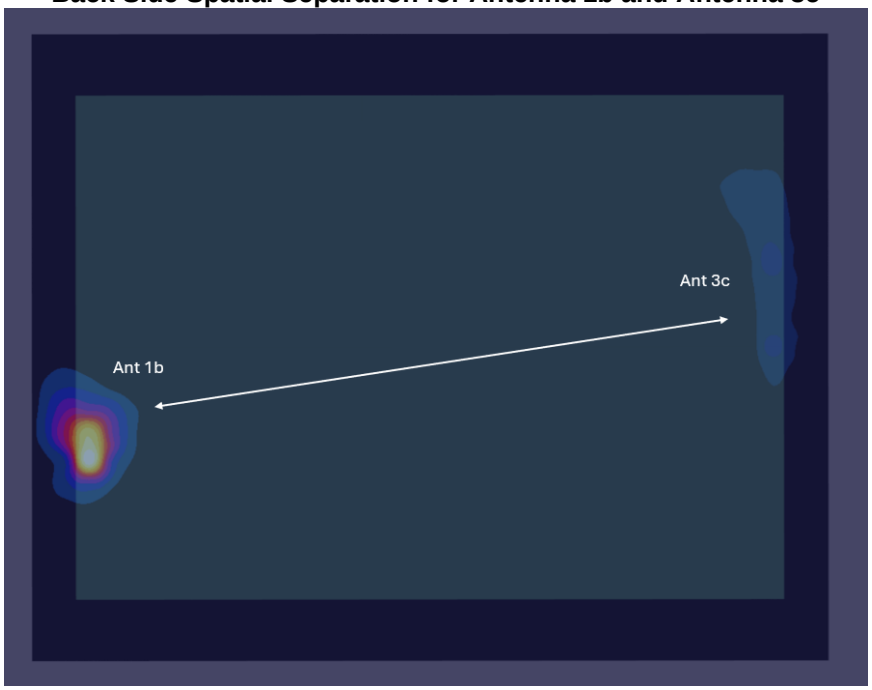


Figure 11-11
Back Side Spatial Separation for Antenna 1b and Antenna 3c



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-12
Back Side Spatial Separation for Antenna 1b and Antenna 4

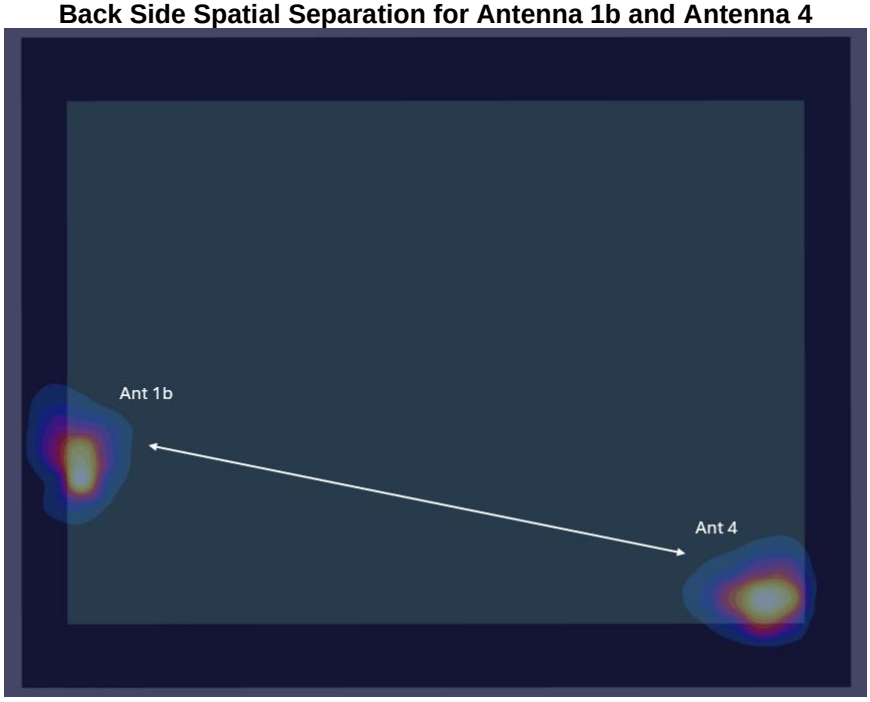
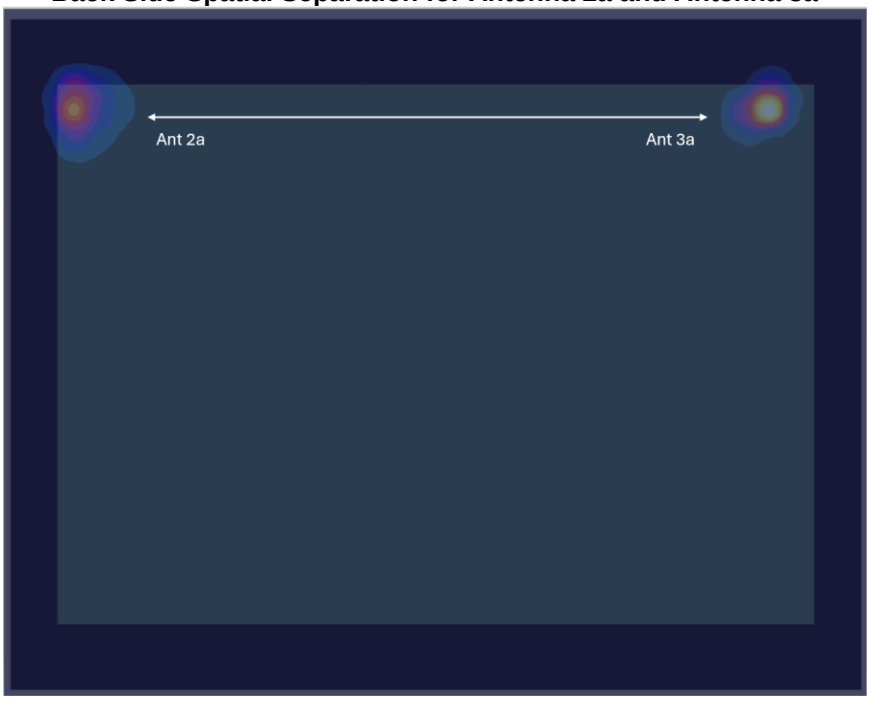


Figure 11-13
Back Side Spatial Separation for Antenna 2a and Antenna 3a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-14
Back Side Spatial Separation for Antenna 2a and Antenna 3c

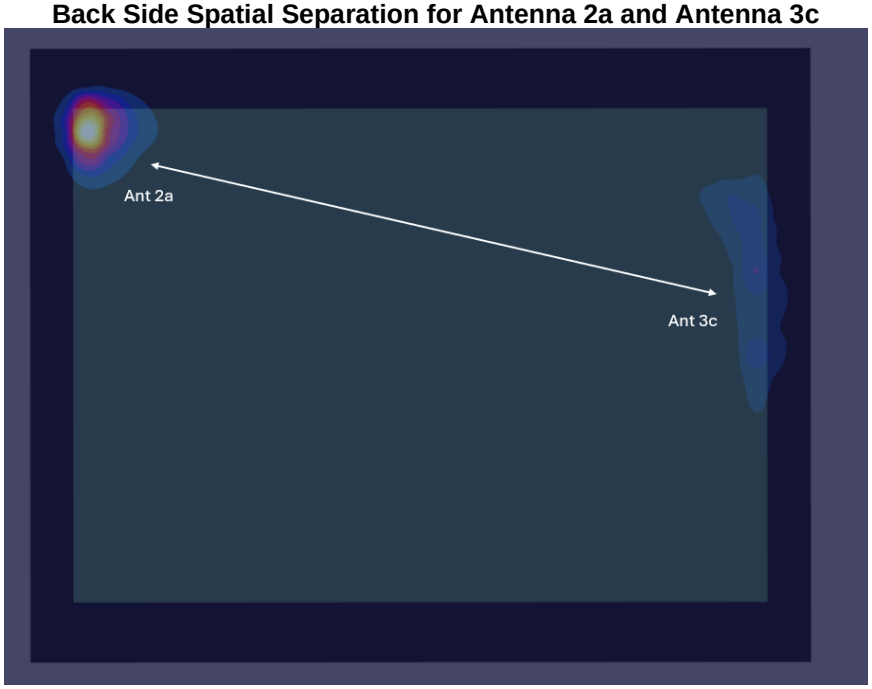
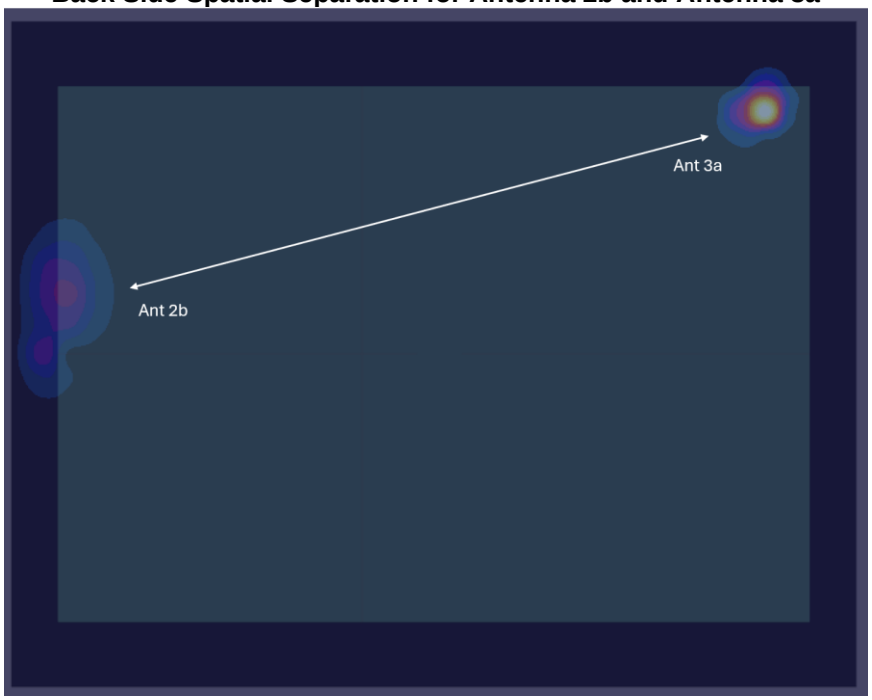


Figure 11-15
Back Side Spatial Separation for Antenna 2b and Antenna 3a



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-16
Back Side Spatial Separation for Antenna 2b and Antenna 3c

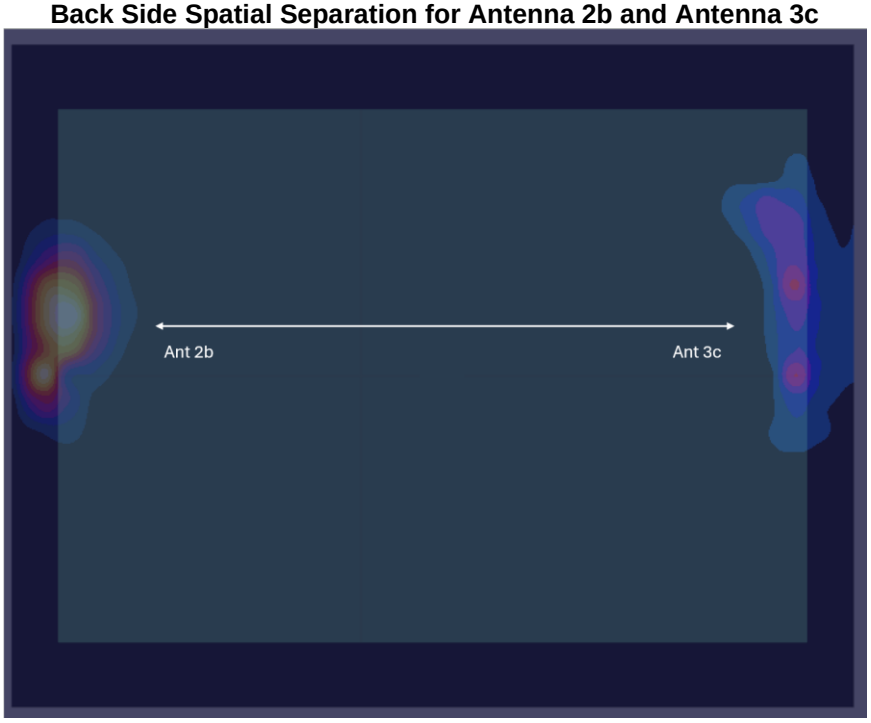
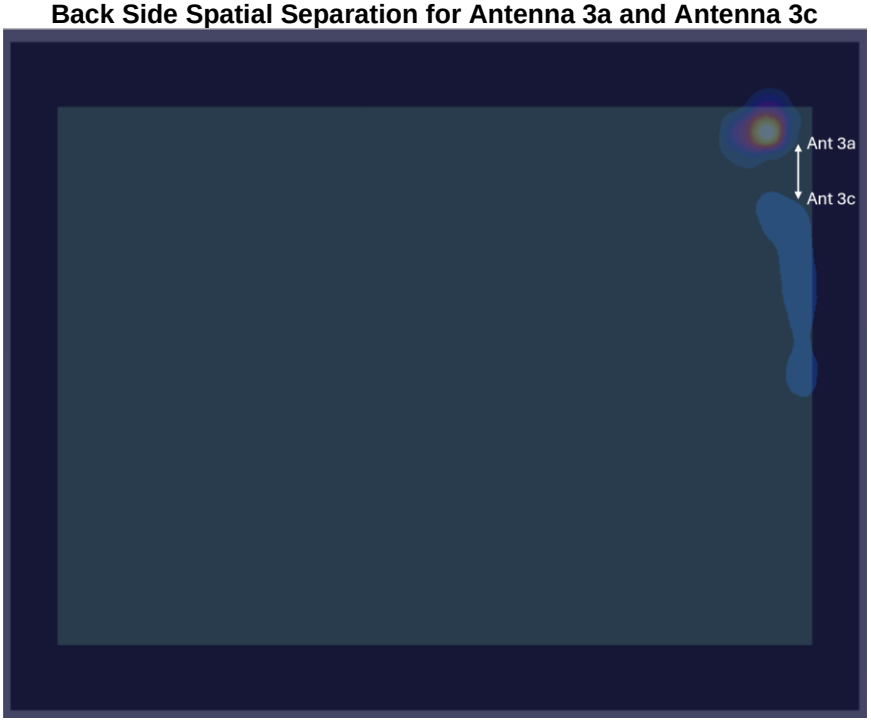


Figure 11-17
Back Side Spatial Separation for Antenna 3a and Antenna 3c



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Figure 11-18
Back Side Spatial Separation for Antenna 3a and Antenna 4

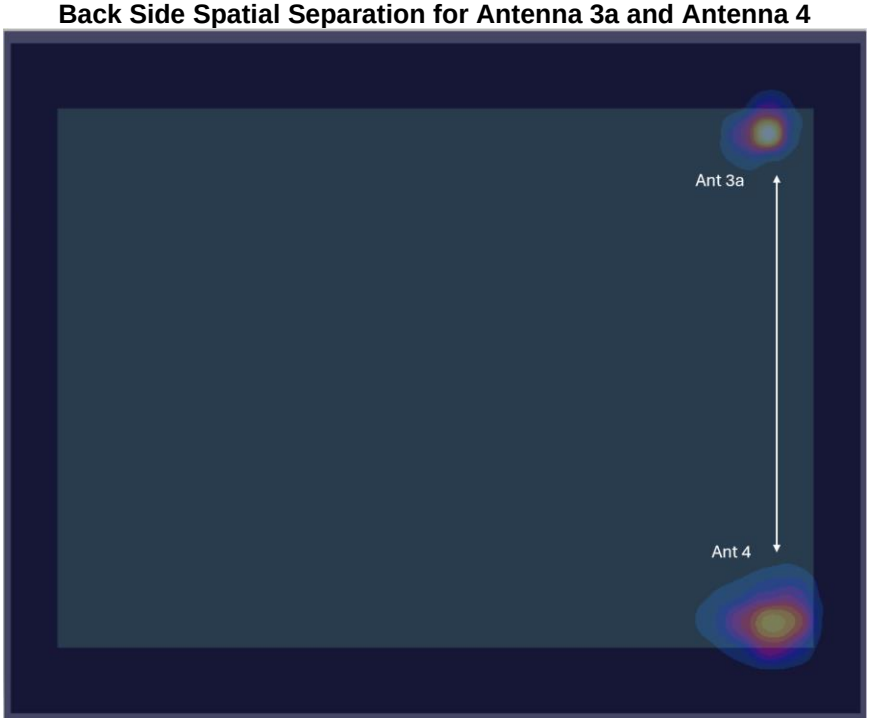
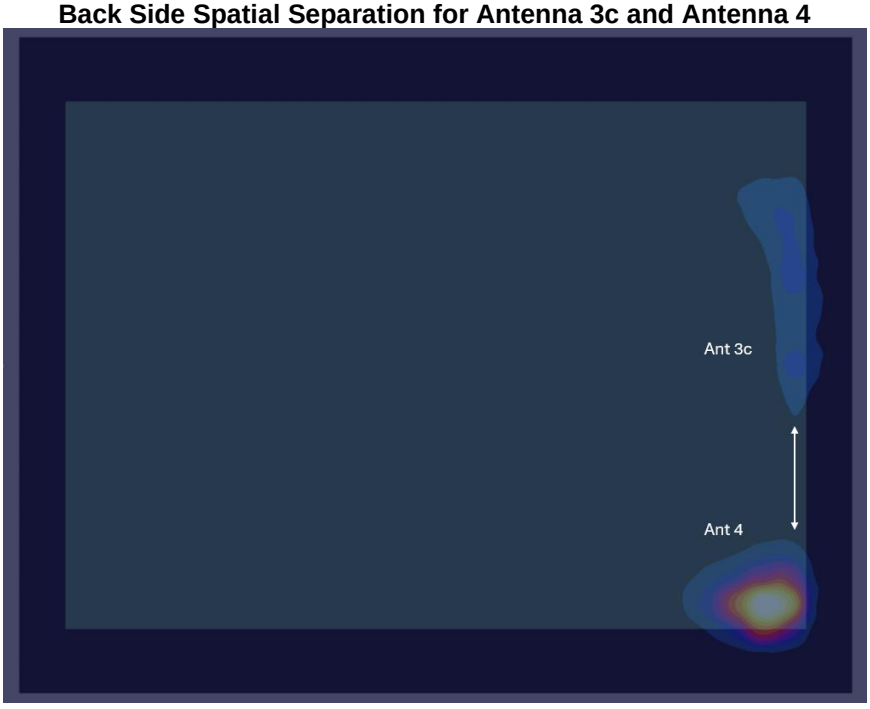


Figure 11-19
Back Side Spatial Separation for Antenna 3c and Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

11.4.2 Bottom Edge Spatial Separation Analysis

Figure 11-20
Bottom Edge Spatial Separation for Antenna 1b and Antenna 3a

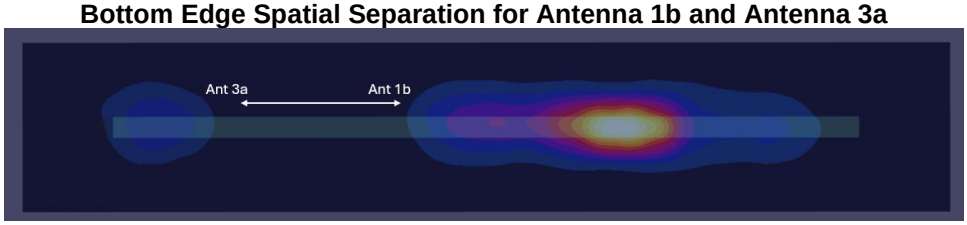
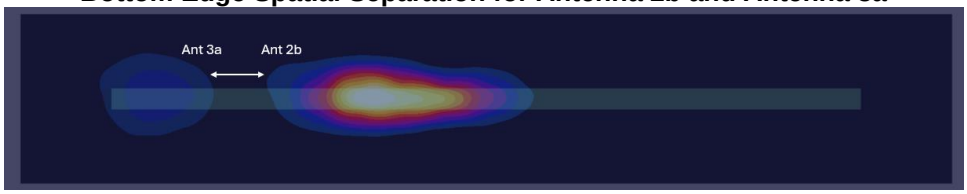


Figure 11-21
Bottom Edge Spatial Separation for Antenna 2b and Antenna 3a



11.4.3 Right Edge Spatial Separation Analysis

Figure 11-22
Right Edge Spatial Separation for Antenna 2a and Antenna 3a



11.4.4 Left Edge Spatial Separation Analysis

Figure 11-23
Left Edge Spatial Separation for Antenna 1a and Antenna 4

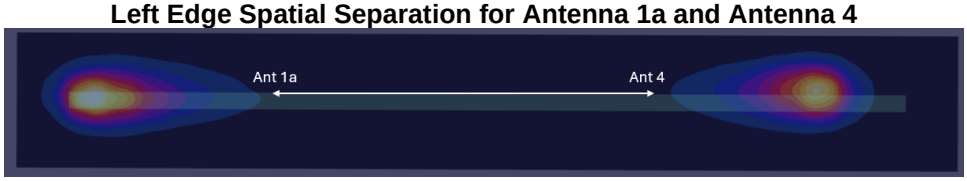


Figure 11-24
Left Edge Spatial Separation for Antenna 1b and Antenna 4



Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1.2.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

12 SAR MEASUREMENT VARIABILITY

12.1 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 12-1
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)	
750	680.5	133297	LTE Band 71, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Ant 4	N/A	Left	0 mm	0.857	0.781	1.10	N/A	N/A	N/A	N/A
835	826.40	4132	UMTS 850	RMC	Ant 4	N/A	Back	0 mm	0.895	0.895	1.00	N/A	N/A	N/A	N/A
1750	1702.50	340500	NR Band n70, 15 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 3a	N/A	Right	0 mm	0.885	0.772	1.15	N/A	N/A	N/A	N/A
1900	1905.00	26590	LTE Band 25, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Ant 2b	N/A	Bottom	0 mm	0.847	0.845	1.00	N/A	N/A	N/A	N/A
2450	2475.00	25	802.15.4	N/A	Ant 3a	0.25	Right	0 mm	1.360	1.150	1.18	N/A	N/A	N/A	N/A
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 1b	N/A	Bottom	0 mm	0.925	0.924	1.00	N/A	N/A	N/A	N/A
3500	3570.00	638000	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 53 RB Offset	Ant 2a	N/A	Back	0 mm	0.917	0.901	1.02	N/A	N/A	N/A	N/A
3700	3679.98	645332	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 104 RB Offset	Ant 2a	N/A	Back	0 mm	0.948	0.915	1.04	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 3b	N/A	Top	0 mm	0.958	0.920	1.04	N/A	N/A	N/A	N/A
5250	5245.00	High	NB U-NII 1	FHSS	Ant 1b	4	Back	0 mm	0.983	0.880	1.12	N/A	N/A	N/A	N/A
5600	5530.00	106	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 3a	29.3	Back	0 mm	0.992	0.939	1.06	N/A	N/A	N/A	N/A
5750	5733.00	Low	NB U-NII 3	FHSS	Ant 1b	1	Back	0 mm	0.960	0.882	1.09	N/A	N/A	N/A	N/A
5800	5844.00	High	NB U-NII 3	FHSS	Ant 1b	1	Back	0 mm	0.868	0.796	1.09	N/A	N/A	N/A	N/A
6500	6505.00	111	6 GHz WIFI/ IEEE 802.11ax, 160 MHz Bandwidth	OFDM	Ant 3c	68.1	Top	0 mm	1.050	1.040	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						

12.2 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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Table 13-1
LTE Band 41 Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.60	17.20
Measured Output Power (dBm)	14.19	16.16
Measured SAR (W/kg)	0.707	0.720
Measured Power (mW)	26.24	41.30
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.61	17.88
% deviation from expected linearity		-5.41%

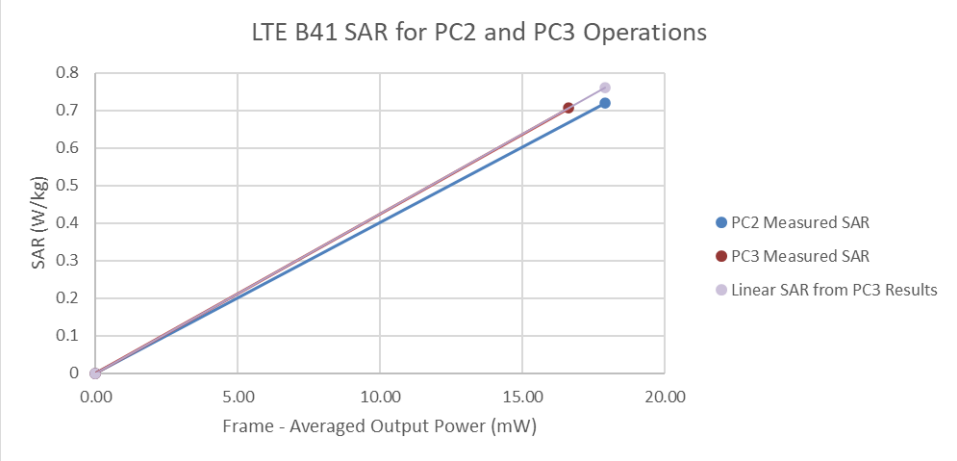


Figure 13-1
LTE Band 41 Body Linearity – Antenna 1b

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.60	17.20
Measured Output Power (dBm)	14.44	16.37
Measured SAR (W/kg)	0.756	0.775
Measured Power (mW)	27.80	43.35
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	17.60	18.77
% deviation from expected linearity		-3.91%

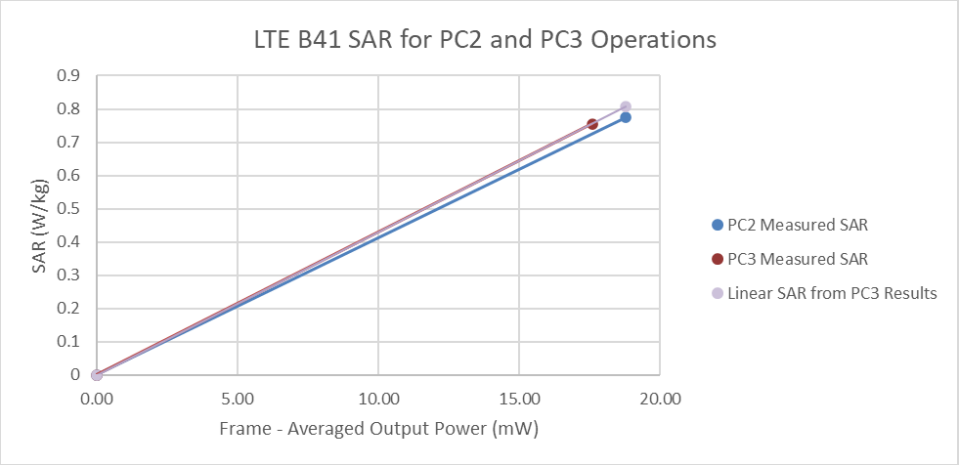


Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1b

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.50	18.10
Measured Output Power (dBm)	15.50	16.94
Measured SAR (W/kg)	0.756	0.758
Measured Power (mW)	35.48	49.43
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.46	21.40
% deviation from expected linearity		5.21%

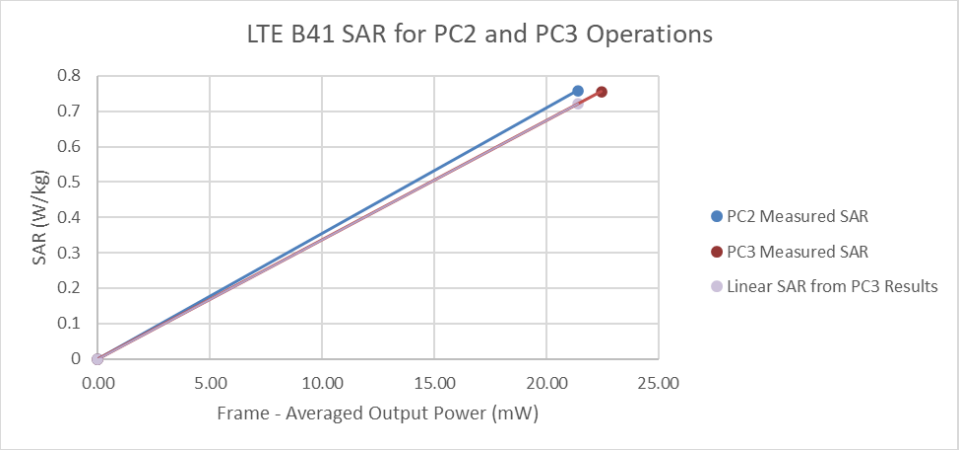


Figure 13-3
LTE Band 41 Body Linearity – Antenna 2b

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.50	18.10
Measured Output Power (dBm)	15.41	17.09
Measured SAR (W/kg)	0.733	0.758
Measured Power (mW)	34.75	51.17
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.00	22.16
% deviation from expected linearity		2.68%

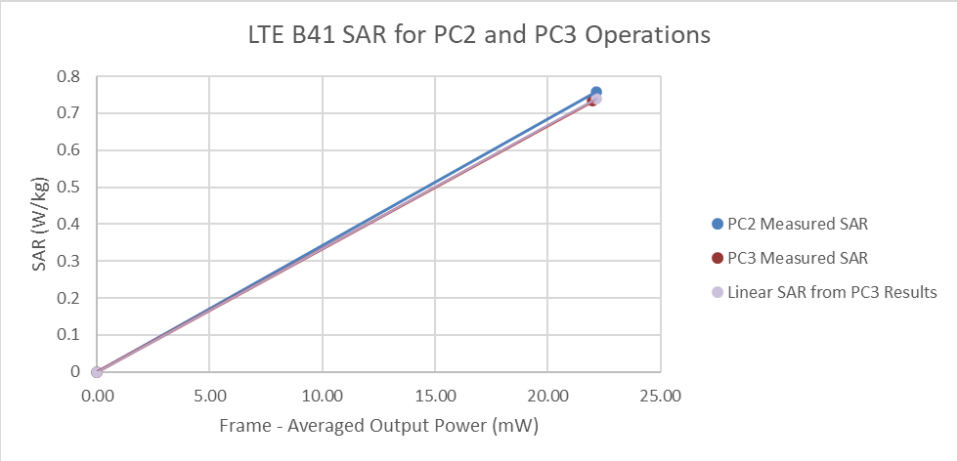


Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2b

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.50	16.10
Measured Output Power (dBm)	13.54	14.96
Measured SAR (W/kg)	0.757	0.756
Measured Power (mW)	22.59	31.33
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.30	13.57
% deviation from expected linearity		5.28%

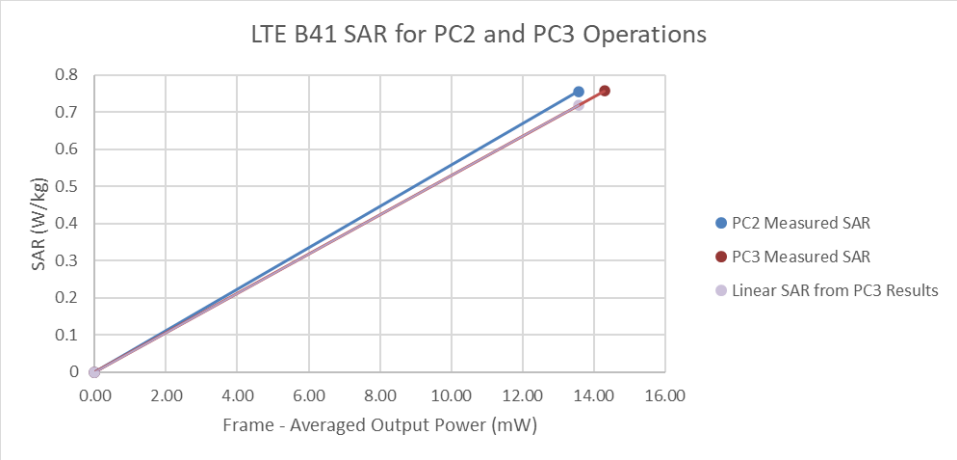


Figure 13-5
LTE Band 41 Body Linearity – Antenna 3a

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.50	16.10
Measured Output Power (dBm)	13.34	15.00
Measured SAR (W/kg)	0.746	0.764
Measured Power (mW)	21.58	31.62
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.66	13.69
% deviation from expected linearity		2.16%

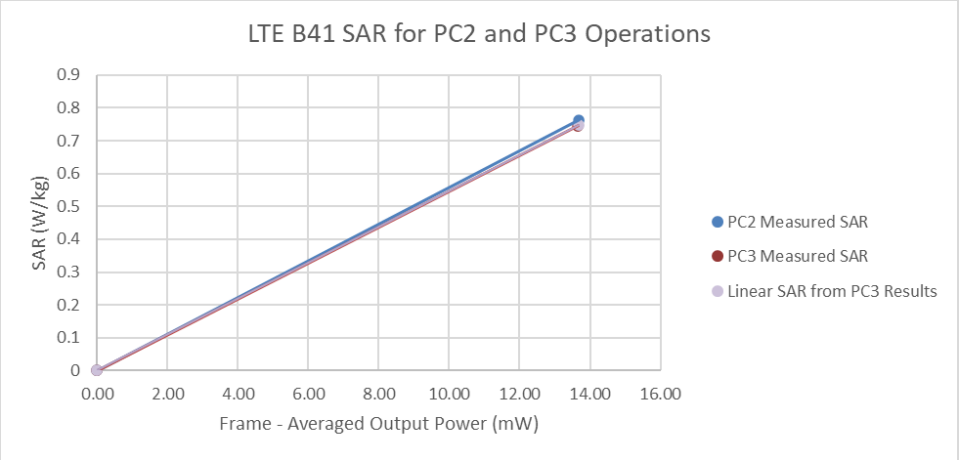


Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3a

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.40	17.00
Measured Output Power (dBm)	14.72	15.74
Measured SAR (W/kg)	0.844	0.668
Measured Power (mW)	29.65	37.50
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	18.77	16.24
% deviation from expected linearity		-8.52%

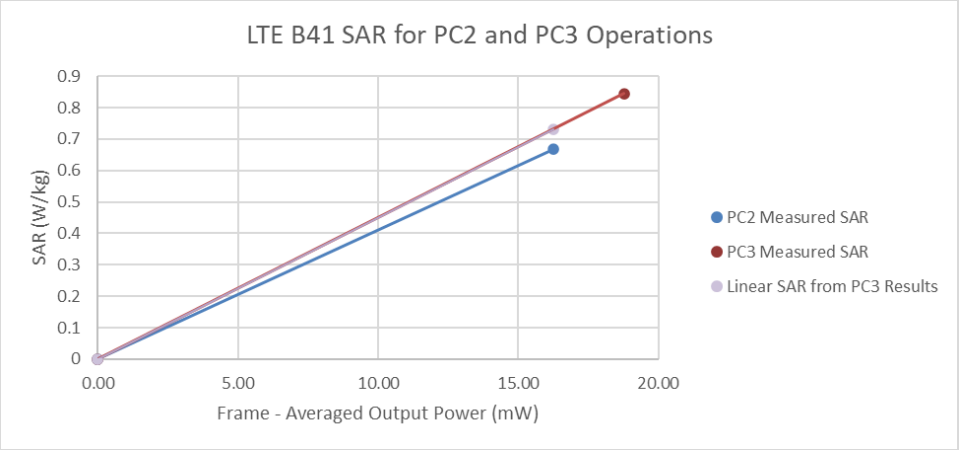


Figure 13-7
LTE Band 41 Body Linearity – Antenna 4

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Table 13-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.40	17.00
Measured Output Power (dBm)	14.38	15.80
Measured SAR (W/kg)	0.782	0.685
Measured Power (mW)	27.42	38.02
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	17.35	16.46
% deviation from expected linearity		-7.66%

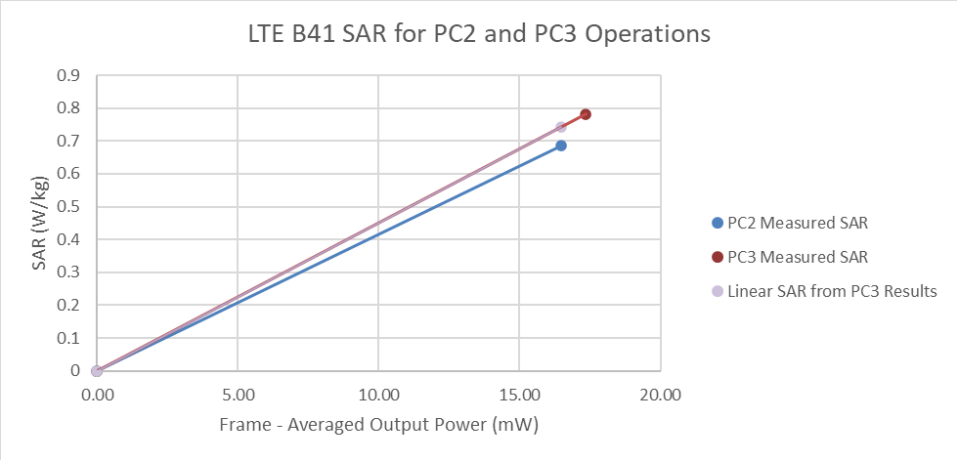


Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	10/12/2023	Annual	10/12/2024	MY47400015
Agilent	N5182A	MXG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2023	Annual	1/10/2024	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/2/2024	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	E5515C	Wireless Communications Test Set	1/10/2023	Annual	1/10/2024	MY50262130
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1S51G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1S51G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
Anritsu	MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	12/15/2022	Annual	12/15/2023	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	6262150000
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6201381794
Anritsu	MT8000A	Radio Communication Test Station	3/21/2023	Annual	3/21/2024	6261987983
Anritsu	MT8000A	Radio Communication Test Station	4/6/2023	Annual	4/6/2024	6272337439
Anritsu	MT8000A	Radio Communication Test Station	3/1/2023	Annual	3/1/2024	6272337419
Anritsu	MA24106A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827530
Anritsu	MA24106A	USB Power Sensor	12/4/2022	Annual	12/4/2023	1520501
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230703247
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230702935
Control Company	4052	Long Stem Thermometer	2/17/2023	Biennial	2/17/2025	230111049
Control Company	4040	Therm / Clock/ Humidity Monitor	1/15/2023	Annual	1/15/2024	160574418
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
Agilent	N9020A	MXA Signal Analyzer	4/26/2022	Biennial	4/26/2024	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/5/2023	Annual	7/5/2024	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/10/2023	Annual	1/10/2024	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/4/2023	Annual	7/4/2024	166818
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/17/2023	Annual	7/17/2024	171008
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/16/2023	Annual	10/16/2024	170999
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
SPEAG	CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Biennial	5/10/2024	1083
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Biennial	11/17/2024	1040
SPEAG	D1750V2	1750 MHz SAR Dipole	9/6/2023	Annual	9/6/2024	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2023	Annual	8/8/2024	5d180
SPEAG	D2300V2	2300 MHz SAR Dipole	3/15/2021	Triennial	3/15/2024	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Triennial	11/9/2024	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	750
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1126
SPEAG	D3700V2	3700 MHz SAR Dipole	10/21/2022	Biennial	10/21/2024	1002
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2021	Triennial	6/10/2024	1073
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/22/2022	Biennial	3/22/2024	1123
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	1/12/2023	Annual	1/12/2024	1020
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Annual	9/13/2024	1097
SPEAG	D750V3	750 MHz SAR Dipole	5/16/2022	Annual	5/16/2024	1057
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	4d040
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Annual	5/16/2024	460
SPEAG	5G Verification Source 10 GHz	10 GHz System Verification Antenna	10/13/2023	Annual	10/13/2024	1006
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1684
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2023	Annual	3/13/2024	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	1683
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	534
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/8/2023	Annual	9/8/2024	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/14/2023	Annual	11/14/2024	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2023	793
SPEAG	EX3DV4	SAR Probe	4/13/2023	Annual	4/13/2024	7357
SPEAG	EX3DV4	SAR Probe	4/14/2023	Annual	4/14/2024	7546
SPEAG	EX3DV4	SAR Probe	10/2/2023	Annual	10/2/2024	3949
SPEAG	EX3DV4	SAR Probe	5/8/2023	Annual	5/8/2024	7416
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7638
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	7420
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
SPEAG	EX3DV4	SAR Probe	11/9/2023	Annual	11/9/2024	7639
SPEAG	EX3DV4	SAR Probe	5/11/2023	Annual	5/11/2024	7682
SPEAG	EX3DV4	SAR Probe	4/18/2023	Annual	4/18/2024	7532
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7360
SPEAG	EX3DV4	SAR Probe	1/19/2023	Annual	1/19/2024	7782
SPEAG	EUmmWV4	EUmmWV4 Probe	1/16/2023	Annual	1/16/2024	9523

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.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

15 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				24.4	24.0	

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

Applicable for SAR measurements > 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System									
Probe Calibration	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				13.8	13.6	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				27.6	27.1	

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

Applicable for Power Density measurements:

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

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

16 CONCLUSION

16.1 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]

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.

17 REFERENCES

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.

[3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.

[4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.

[5] IEEE Standards Coordinating Committee 39 –Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.

[9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.

[10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.

[12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.

[14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[15] W. Gander, Computermathematick, Birkhaeuser, Basel, 1992.

[16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact CT.INFO@ELEMENT.COM.

[18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

[19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.

[20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.

[21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.

[22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2015

[23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07

[24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01

[25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04

[26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04

[27] FCC SAR Measurement and Reporting Requirements for 100MHz – 6 GHz, KDB Publications 865664 D01-D02

[28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02

[29] Anexo à Resolução No. 533, de 10 de Septembro de 2009.

[30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact **CT.INFO@ELEMENT.COM**.