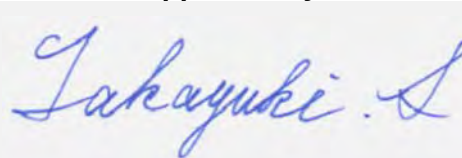


RF EXPOSURE TEST REPORT

Test Report No. 15172766H-A-R1

Customer	Panasonic Corporation of North America
Description of EUT	Wireless Module (Tested inside of 5G Module FZ-VEW553)
Model Number of EUT	WW23E
FCC ID	ACJ9TGW23E
Test Regulation	FCC47CFR 2.1093
Test Result	Complied
Issue Date	November 13, 2024
Remarks	This is SAR report which one of the RF exposures. *The highest reported SAR Standalone: 0.70 W/kg(body) / 1.94 W/kg (limbs) Simultaneous transmission: 1.14 W/kg(body) / 1.76 W/kg (limbs)

Representative test engineer  Takeshi Hiyaji Engineer	Approved by  Takayuki Shimada Leader
  CERTIFICATE 5107.02	
☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc. ☒ There is no testing item of "Non-accreditation".	

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 23.0

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- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

REVISION HISTORY

Original Test Report No. 15172766H-A

This report is a revised version of 15172766H-A. 15172766H-A is replaced with this report.

Revision	Test report No.	Date	Page Revised Contents
- (Original)	15172766H-A	October 16, 2024	-
1	15172766H-A-R1	November 13, 2024	<u>Appendix Dipole / Verification source calibration record</u> (Page 552, 553) Modified calibration data for Model: D3700V2

Reference: Abbreviations (Including words undescribed in this report)

AAN	Asymmetric Artificial Network	GPS	Global Positioning System
AC	Alternating Current	Hori.	Horizontal
AM	Amplitude Modulation	ICES	Interference-Causing Equipment Standard
AMN	Artificial Mains Network	I/O	Input/Output
Amp, AMP	Amplifier	IEC	International Electrotechnical Commission
ANSI	American National Standards Institute	IEEE	Institute of Electrical and Electronics Engineers
Ant, ANT	Antenna	IF	Intermediate Frequency
AP	Access Point	ILAC	International Laboratory Accreditation Conference
ASK	Amplitude Shift Keying	ISED	Innovation, Science and Economic Development Canada
Atten., ATT	Attenuator	ISN	Impedance Stabilization Network
AV	Average	ISO	International Organization for Standardization
BPSK	Binary Phase-Shift Keying	JAB	Japan Accreditation Board
BR	Bluetooth Basic Rate	LAN	Local Area Network
BT	Bluetooth	LCL	Longitudinal Conversion Loss
BT LE	Bluetooth Low Energy	LIMS	Laboratory Information Management System
BW	BandWidth	LISN	Line Impedance Stabilization Network
C.F	Correction Factor	MRA	Mutual Recognition Arrangement
Cal Int	Calibration Interval	N/A	Not Applicable
CAV	CISPR AV	NIST	National Institute of Standards and Technology
CCK	Complementary Code Keying	NS	No signal detect.
CDN	Coupling Decoupling Network	NSA	Normalized Site Attenuation
Ch., CH	Channel	OBW	Occupied BandWidth
CISPR	Comite International Special des Perturbations Radioelectriques	OFDM	Orthogonal Frequency Division Multiplexing
Corr.	Correction	PER	Packet Error Rate
CPE	Customer premise equipment	PK	Peak
CW	Continuous Wave	P _{LT}	long-term flicker severity
DBPSK	Differential BPSK	POHC(A)	Partial Odd Harmonic Current
DC	Direct Current	Pol., Pola.	Polarization
DET	Detector	PR-ASK	Phase Reversal ASK
D-factor	Distance factor	P _{ST}	short-term flicker severity
Dmax	maximum absolute voltage change during an observation period	QAM	Quadrature Amplitude Modulation
DQPSK	Differential QPSK	QP	Quasi-Peak
DSSS	Direct Sequence Spread Spectrum	QPSK	Quadrature Phase Shift Keying
DUT	Device Under Test	r.m.s., RMS	Root Mean Square
EDR	Enhanced Data Rate	RBW	Resolution BandWidth
e.i.r.p., EIRP	Equivalent Isotropically Radiated Power	RE	Radio Equipment
EM clamp	Electromagnetic clamp	REV	Reverse
EMC	ElectroMagnetic Compatibility	RF	Radio Frequency
EMI	ElectroMagnetic Interference	RFID	Radio Frequency Identifier
EMS	ElectroMagnetic Susceptibility	RNSS	Radio Navigation Satellite Service
EN	European Norm	RSS	Radio Standards Specifications
e.r.p., ERP	Effective Radiated Power	Rx	Receiving
ETSI	European Telecommunications Standards Institute	SINAD	Ratio of (Signal + Noise + Distortion) to (Noise + Distortion)
EU	European Union	S/N	Signal to Noise ratio
EUT	Equipment Under Test	SA, S/A	Spectrum Analyzer
Fac.	Factor	SG	Signal Generator
FCC	Federal Communications Commission	SVSWR	Site-Voltage Standing Wave Ratio
FHSS	Frequency Hopping Spread Spectrum	THC(A)	Total Harmonic Current
FM	Frequency Modulation	THD(%)	Total Harmonic Distortion
Freq.	Frequency	TR, T/R	Test Receiver
FSK	Frequency Shift Keying	Tx	Transmitting
Fund	Fundamental	VBW	Video BandWidth
FWD	Forward	Vert.	Vertical
GFSK	Gaussian Frequency-Shift Keying	WLAN	Wireless LAN
GNSS	Global Navigation Satellite System	xDSL	Generic term for all types of DSL technology
			(DSL: Digital Subscriber Line)

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Section 1 Customer information

Company Name	Panasonic Corporation of North America
Address	Two Riverfront Plaza, Newark, New Jersey, 07102-5490, USA
Telephone Number	+1-201-348-7760
Contact Person	Ben Botros

*Remarks:

Panasonic Connect Co., Ltd. is on behalf of the applicator: Panasonic Corporation of North America (Company incorporated abroad).

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date, Test Date and Trigger sensor.
- Appendix Antenna location

Section 2 Equipment under test (EUT)

2.1 Identification of EUT

Description	Wireless Module
Model Number	WW23E
Serial Number	[Full power sample] 356952940203930 for below 1 GHz 354724300160950 for between 1 GHz to 2 GHz 356952940203880 for above 2 GHz [Reduction Sample] 356952940259445 for below 1.8 GHz 356952940259346 for above 1.8 GHz [Downlink CA] 354724300159107
Condition	Engineering prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	May 31, 2024
Test Date	July 17 to September 5, 2024

<Information of Host device>

Type of Equipment	5G Module
Model No.	FZ-VEW553
Serial No.	1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7
Remarks	Dedicated accessory for Personal Computer FZ-55

2.2 Product description

General Specification

Rating	DC 3.0 V to 3.6 V

Radio Specification

WWAN Module

(Tested inside of 5G Module FZ-VEW553)

Wireless technologies	Dup.	Band		Mode														
WCDMA	FDD	2		UMTS Rel. 99 (Data) HSDPA (Rel. 5) HSUPA (Rel. 6), HSPA+ (Rel. 7), DC-HSDPA (Rel. 8)														
	FDD	4																
	FDD	5																
LTE	FDD	2		QPSK, 16QAM, 64AQM, 256QAM Downlink MIMO Support: Yes (2x2, 4x4) Supported band: B2, B4,B5,B7,B12,B13,B14, B25,B26,B38,B41,B42,B48,B66. Uplink MIMO Support: No Uplink transmission is limited to a single output stream.														
	FDD	4																
	FDD	5																
	FDD	7																
	FDD	12																
	FDD	13																
	FDD	14																
	FDD	17																
	FDD	25																
	FDD	26																
	FDD (Rx only)	29																
	TDD	38																
	TDD	41																
	TDD	42																
	TDD (Rx only)	46																
	TDD	48																
	FDD	66																
LTE CA	Downlink			Uplink B42: not used in US (FCC) / B48: not used in Canada (ISED) Combination <table><tr><td>7C</td><td>4A-12A</td></tr><tr><td>41C</td><td>4A-13A</td></tr><tr><td>42C</td><td>5A-7A</td></tr><tr><td>2A-5A</td><td>5A-66A</td></tr><tr><td>2A-12A</td><td>12A-66A</td></tr><tr><td>2A-13A</td><td>13A-66A</td></tr><tr><td>4A-5A</td><td>41A-42A</td></tr></table>	7C	4A-12A	41C	4A-13A	42C	5A-7A	2A-5A	5A-66A	2A-12A	12A-66A	2A-13A	13A-66A	4A-5A	41A-42A
	7C	4A-12A																
	41C	4A-13A																
42C	5A-7A																	
2A-5A	5A-66A																	
2A-12A	12A-66A																	
2A-13A	13A-66A																	
4A-5A	41A-42A																	
Maximum 7 carriers																		
All combination is shown in appendix “Power measurement result”.																		
5G NR (FR1)	Dup.	scs	band	Pi/2 BPSK (DFT-s-OFDM), QPSK (CP-OFDM/DFT-s-OFDM), 16QAM (CP-OFDM/DFT-s-OFDM), 64QAM (CP-OFDM/DFT-s-OFDM), 256QAM (CP-OFDM/DFT-s-OFDM) Downlink MIMO Support: Yes (2x2, 4x4) Supported band: n2, n5, n66, n77, n78 Uplink MIMO Support: No Uplink transmission is limited to a single output stream.														
	FDD	15 kHz	n2															
	FDD	15 kHz	n5															
	FDD	15 kHz	n66															
	TDD	30 kHz	n77															
	TDD	30 kHz	n78															
	n78: not used in US.																	
EN-DC	Supported combination																	
	LTE anchor band			NR band														
	5,12,13,14,48			n2														
	2,7,66			n5														
	5,12,13,14,48			n66														
	2,5,7,12,13,14,41,66			n77														
	2,4,5,7,12,13,38,41,66			n78														

This device supports only non-standalone, NSA, mode.

2.3 Channel information

2.3.1 General LTE/NR SAR Test and Reporting Considerations

Frequency range, Channel Bandwidth, Numbers and Frequencies

Band		Frequency range: 1850 - 1910 MHz					
		Channel Bandwidth[MHz]					
2		1.4	3	5	10	15	20
Low	Ch	18607	18615	18625	18650	18675	18700
	Freq[MHz]	1850.7	1851.5	1852.5	1855	1857.5	1860
Mid	Ch	18900	18900	18900	18900	18900	18900
	Freq[MHz]	1880	1880	1880	1880	1880	1880
High	Ch	19193	19185	19175	19150	19125	19100
	Freq[MHz]	1909.3	1908.5	1907.5	1905	1902.5	1900
Band		Frequency range: 1710 - 1755 MHz					
		Channel Bandwidth[MHz]					
4		1.4	3	5	10	15	20
Low	Ch	19957	19965	19975	20000	20025	20050
	Freq[MHz]	1710.7	1711.5	1712.5	1715	1717.5	1720
Mid	Ch	20175	20175	20175	20175	20175	20175
	Freq[MHz]	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5
High	Ch	20393	20385	20375	20350	20325	20300
	Freq[MHz]	1754.3	1753.5	1752.5	1750	1747.5	1745
Band		Frequency range: 824 - 849 MHz					
		Channel Bandwidth[MHz]					
5		1.4	3	5	10	15	20
Low	Ch	20407	20415	20425	20450		
	Freq[MHz]	824.7	825.5	826.5	829		
Mid	Ch	20525	20525	20525	20525		
	Freq[MHz]	836.5	836.5	836.5	836.5		
High	Ch	20643	20635	20625	20600		
	Freq[MHz]	848.3	847.5	846.5	844		
Band		Frequency range: 2500 - 2570 MHz					
		Channel Bandwidth[MHz]					
7		1.4	3	5	10	15	20
Low	Ch			20775	20800	20825	20850
	Freq[MHz]			2502.5	2505	2507.5	2510
Mid	Ch			21100	21100	21100	21100
	Freq[MHz]			2535	2535	2535	2535
High	Ch			21425	21400	21375	21350
	Freq[MHz]			2567.5	2565	2562.5	2560
Band		Frequency range: 699 - 716 MHz					
		Channel Bandwidth[MHz]					
12		1.4	3	5	10	15	20
Low	Ch	23017	23025	23035	23060		
	Freq[MHz]	699.7	700.5	701.5	704		
Mid	Ch	23095	23095	23095	23095		
	Freq[MHz]	707.5	707.5	707.5	707.5		
High	Ch	23173	23165	23155	23130		
	Freq[MHz]	715.3	714.5	713.5	711		

Band		Frequency range: 777 - 787 MHz					
		Channel Bandwidth[MHz]					
13		1.4	3	5	10	15	20
Low	Ch			23205	23230		
	Freq[MHz]			779.5	782		
Mid	Ch			23230	23230		
	Freq[MHz]			782	782		
High	Ch			23255	23230		
	Freq[MHz]			784.5	782		
Band		Frequency range: 788 - 798 MHz					
		Channel Bandwidth[MHz]					
14		1.4	3	5	10	15	20
Low	Ch			23305	23330		
	Freq[MHz]			790.5	793		
Mid	Ch			23330	23330		
	Freq[MHz]			793	793		
High	Ch			23355	23330		
	Freq[MHz]			795.5	793		
Band		Frequency range: 704 - 716 MHz					
		Channel Bandwidth[MHz]					
17		1.4	3	5	10	15	20
Low	Ch			23755	23780		
	Freq[MHz]			706.5	709		
Mid	Ch			23790	23790		
	Freq[MHz]			710	710		
High	Ch			23825	23800		
	Freq[MHz]			713.5	711		
Band		Frequency range: 1850 - 1915 MHz					
		Channel Bandwidth[MHz]					
25		1.4	3	5	10	15	20
Low	Ch	26047	26055	26065	26090	26115	26140
	Freq[MHz]	1850.7	1851.5	1852.5	1855	1857.5	1860
Mid	Ch	26365	26365	26365	26365	26365	26365
	Freq[MHz]	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5
High	Ch	26683	26675	26665	26640	26615	26590
	Freq[MHz]	1914.3	1913.5	1912.5	1910	1907.5	1905
Band		Frequency range: 814 - 849 MHz					
		Channel Bandwidth[MHz]					
26		1.4	3	5	10	15	20
Low	Ch	26697	26705	26715	26740	26765	
	Freq[MHz]	814.7	815.5	816.5	819	821.5	
Mid	Ch	26865	26865	26865	26865	26865	
	Freq[MHz]	831.5	831.5	831.5	831.5	831.5	
High	Ch	27033	27025	27015	26990	26965	
	Freq[MHz]	848.3	847.5	846.5	844	841.5	

Band		Frequency range: 2570 - 2620 MHz					
		Channel Bandwidth[MHz]					
38		1.4	3	5	10	15	20
Low	Ch			37775	37800	37825	37850
	Freq[MHz]			2572.5	2575	2577.5	2580
Mid	Ch			38000	38000	38000	38000
	Freq[MHz]			2595	2595	2595	2595
High	Ch			38225	38200	38175	38150
	Freq[MHz]			2617.5	2615	2612.5	2610
Band		Frequency range: 2496 - 2690 MHz					
		Channel Bandwidth[MHz]					
41		1.4	3	5	10	15	20
Low	Ch			39675	39700	39725	39750
	Freq[MHz]			2498.5	2501	2503.5	2506
Low-Mid	Ch			40148	40160	40173	40185
	Freq[MHz]			2545.8	2547	2548.3	2549.5
Mid	Ch			40620	40620	40620	40620
	Freq[MHz]			2593	2593	2593	2593
Mid-High	Ch			41093	41080	41068	41055
	Freq[MHz]			2640.3	2639	2637.8	2636.5
High	Ch			41565	41540	41515	41490
	Freq[MHz]			2687.5	2685	2682.5	2680
Band		Frequency range: 3550 - 3700 MHz					
		Channel Bandwidth[MHz]					
48		1.4	3	5	10	15	20
Low	Ch			55265	55290	55315	55340
	Freq[MHz]			3552.5	3555	3557.5	3560
Low-Mid	Ch			55748	55757	55765	55773
	Freq[MHz]			3600.8	3601.7	3602.5	3603.3
Mid	Ch						
	Freq[MHz]						
Mid-High	Ch			56232	56223	56215	56207
	Freq[MHz]			3649.2	3648.3	3647.5	3646.7
High	Ch			56715	56690	56665	56640
	Freq[MHz]			3697.5	3695	3692.5	3690
Band		Frequency range: 1710 - 1780 MHz					
		Channel Bandwidth[MHz]					
66		1.4	3	5	10	15	20
Low	Ch	131979	131987	131997	132022	132047	132072
	Freq[MHz]	1710.7	1711.5	1712.5	1715	1717.5	1720
Mid	Ch	132322	132322	132322	132322	132322	132322
	Freq[MHz]	1745	1745	1745	1745	1745	1745
High	Ch	132665	132657	132647	132622	132597	132572
	Freq[MHz]	1779.3	1778.5	1777.5	1775	1772.5	1770

Band		Frequency range: 1850 - 1910 MHz															
n2		Channel Bandwidth[MHz]															
		3	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
Low	Ch		370500	371000	371500	372000											
	Freq[MHz]		1852.5	1855	1857.5	1860											
Mid	Ch		376000	376000	376000	376000											
	Freq[MHz]		1880	1880	1880	1880											
High	Ch		381500	381000	380500	380000											
	Freq[MHz]		1907.5	1905	1902.5	1900											
Band		Frequency range: 824 - 849 MHz															
n5		Channel Bandwidth[MHz]															
		3	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
Low	Ch		165300														
	Freq[MHz]		826.5														
Mid	Ch		167300	167300	167300	167300											
	Freq[MHz]		836.5	836.5	836.5	836.5											
High	Ch		169300														
	Freq[MHz]		846.5														
Band		Frequency range: 1710 - 1780 MHz															
n66		Channel Bandwidth[MHz]															
		3	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
Low	Ch		342500	343000	343500	344000											
	Freq[MHz]		1712.5	1715	1717.5	1720											
Mid	Ch		349000	349000	349000	349000											
	Freq[MHz]		1745	1745	1745	1745											
High	Ch		355500	355000	354500	354000											
	Freq[MHz]		1777.5	1775	1772.5	1770											
Band		Frequency range: 3450 - 3550 MHz															
n77 block A		Channel Bandwidth[MHz]															
		3	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
Low	Ch					630668		631000									
	Freq[MHz]					3460		3465									
Mid	Ch					633334		633334		633334		633334	633334		633334	633334	633334
	Freq[MHz]					3500		3500		3500		3500	3500		3500	3500	3500
High	Ch					636000		635666									
	Freq[MHz]					3540		3535									
Band		Frequency range: 3700 - 3980 MHz															
n77 block C		Channel Bandwidth[MHz]															
		3	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
Low	Ch					647334		647666		648000		648334	648666		649334	649666	
	Freq[MHz]					3710		3715		3720		3725	3730		3740	3745	
Mid-Low	Ch					651666		651834		652000		652166					
	Freq[MHz]					3775		3777.5		3780		3782.5					
Mid	Ch					656000		656000		656000		656000	656000		656000	656000	656000
	Freq[MHz]					3840		3840		3840		3840	3840		3840	3840	3840
Mid-High	Ch					660334		660166		660000		659834					
	Freq[MHz]					3905		3902.5		3900		3897.5					
High	Ch					664666		664333		664000		663666	663332		662666	662332	
	Freq[MHz]					3970		3965		3960		3955	3950		3940	3935	

2.4 Software information

The power value of the EUT was set for testing as follows (setting value might be different from product specification value).

For LTE

Software: install in the memory of fw

Power settings: Written in FW

For NR

Software: Tera Term version 4.106.0.0

Power settings: Full power 230 / reduction power shown in "appendix power measurement result"

*This setting of software is the worst case.

Any conditions under the normal use do not exceed the condition of setting.

In addition, end users cannot change the settings of the output power of the product.

2.5 Tune-up tolerance information

If not specified, listed values are maximum power level.

LTE Band41 does not support HPUE.

The maximum power of CA(inter / intra) mode is the same as single mode.

2.5.1 WWAN

Table WCDMA

Tech	BAND	CH.	Freq. [MHz]	w/o Reduction power [dBm] (Burst average)	w Reduction Power [dBm] (Burst average)	Tolerance [dB]
WCDMA	BAND5	4132	826.4	23.5	22.5	+/-1dB
		4182	836.4			
		4233	846.6			
	BAND4	1312	1712.4	23.5	20.0	
		1413	1732.6			
		1513	1752.6			
	BAND2	9262	1852.4	23.5	17.0	
		9400	1880			
		9538	1907.6			
UTMS 3GPP HSDPA Rel 5	BAND5	4183	836.6	22.5	21.5	
	BAND4	1413	1732.6	22.5	19.0	
	BAND2	9400	1880.0	22.5	16.0	
UTMS 3GPP HSUPA Rel 6	BAND5	4183	836.6	22.5	21.5	
	BAND4	1413	1732.6	22.5	19.0	
	BAND2	9400	1880.0	22.5	16.0	
HSPA+ Rel 7	BAND5	4183	836.6	23.5	22.5	
	BAND4	1413	1732.6	23.5	20.0	
	BAND2	9400	1880.0	23.5	17.0	

Table: LTE

BAND	CH.	Freq. [MHz]	w/o Reduction power [dBm] (Burst average)	w Reduction Power [dBm] (Burst average)	Tolerance [dB]
BAND2	18700	1860	23.0	16.5	+/-1dB
	18900	1880			
	19100	1900			
BAND4	20050	1720	23.0	17.0	
	20175	1732.5			
	20300	1745			
BAND5	20450	829	23.0	21.0	
	20525	836.5			
	20600	844			
BAND7	20850	2510	23.0	15.7	+1.8/ -1.0dB
	21100	2535			
	21350	2560			
BAND12	23060	704	23.0	23.0	+/-1dB
	23095	707.5			
	23130	711			
BAND13	23230	782	23.0	22.5	
BAND14	23330	793	23.0	22.3	
BAND17	23830	709	23.0	23.0	
	23790	710			
	23750	711			
BAND25	26140	1860	23.0	15.0	
	26365	1882.5			
	26590	1905			
BAND26	26765	821.5	23.0	21.0	
	26865	831.5			
	26965	841.5			
BAND38 UL/DL Config.0 Burst Ave.	37850	2580	23.0	16.5	
	38000	2595			
	38150	2610			
BAND41 UL/DL Config.0 Burst Ave.	39750	2506	23.0	14.9	+1.8/ -1.0dB
	40620	2593			
	41490	2680			
	40620	2593			
BAND42 ISED only UL/DL Config.0 Burst Ave	41490	2680	23.0	19.2	+1.8/ -1.0dB
	41690	3410			
	42590	3500			
BAND48 FCC only UL/DL Config.0 Burst Ave.	43490	3590	9.9	9.9	+/-1dB
	55340	3560			
	55990	3625			
BAND66	56640	3690	23.0	17.0	
	132072	1720			
	132322	1745			
	132572	1770			

For LTE band 48, tune up limit is selected highest duty config among all UD configurations because of same time averaged power.

BAND	Uplink/Downlink Config.	Tune-up power [dBm] (Burst average)	Tune-up power[dBm] (Time average)	Tolerance [dB]
Band48	0	9.9	7.5	+/-1
	1	11.3	7.5	
	2	14.2	7.5	
	3	12.8	7.5	
	4	14.4	7.5	
	5	17.3	7.5	
	6	10.4	7.5	

Table: NR

BAND	CH.	Freq. [MHz]	w/o Reduction power [dBm] (Burst average)	w Reduction Power [dBm] (Burst average)	Tolerance [dB]	
n2	372000	1860	23.7	14.1	+0.8/ -2.2dB	
	376000	1880				
	380000	1900				
n5	167300	836.5	23.7	18.6		
n66	344000	1720	23.7	15.7		
	349000	1745				
	354000	1770				
n77 Duty100% Time Ave.	630667	3460	23.7	16.2		
	664666	3970				
n78 IC only Duty100% Time Ave.	630667	3460	23.0	16.0	±1.5dB	
	652666	3790				

2.6 Antenna information

Antenna location information is shown in appendix.

2.6.1 Antenna configuration

The WWAN module antenna configuration consists below combination and supports Tx/Rx configurations.

WWAN Antennas	WWAN band	
	Tx	Rx
WWAN-main	All bands	All bands
WWAN-aux	-	All bands
WWAN-third	-	All bands
WWAN-fourth	-	All bands

2.6.2 Simultaneous transmission combinations

No	WWAN		
	LTE		NR
	PCC	SCC	
1	Y		
2	Y	Y	
3	Y		Y

Y: supported

2.6.3 Antenna location

Table: antenna location for body condition

Position	[mm] (Full power)	[mm] (Reduction power)
Back	13.0	0.0
Left	52.0	NA
Top	63.0	NA
Front	82.2	NA
Right	345.0	NA
Rear	25.3 (30.0)	NA

Note: Full power is considering the trigger distance.

Rear side trigger distance is 30 mm for full power, but all tests and exemption calculations are 25.3 mm with full power as conserve.

Table: antenna location for limbs condition

Position	[mm]
Front	0.0
Back	0.0
Left	0.0
Top	0.0
Top tilt	0.0
Rear	0.0

Note: all conditions, excluding front, are triggered because limb, especially hand, is approaching to the module.

2.6.4 Antenna gain

Table: WWAN antenna gain

Gain	Frequency	Band
-3.82 dBi	699-716 MHz	B12/B17
-1.83 dBi	777-787 MHz	B13
-1.50 dBi	788-798 MHz	B14
-0.84 dBi	814-849 MHz	B26/B5/n5
1.99 dBi	1710-1780 MHz	B4/B66/n66
2.79 dBi	1850-1915 MHz	B25/B2/n2
-2.37 dBi	2500-2570 MHz	B7
-2.10 dBi	2496-2690 MHz	B38/B41
1.72 dBi	3400-3600 MHz	B42
2.59 dBi	3550-3700 MHz	B48
2.59 dBi	3300-4200 MHz	n77/n78

2.7 Trigger sensor

Table: Trigger direction:

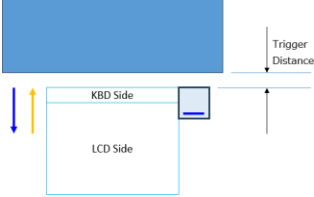
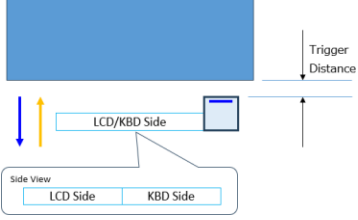
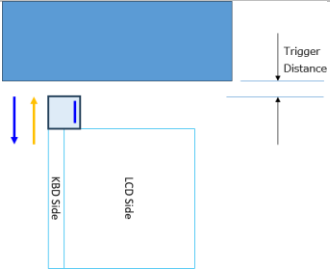
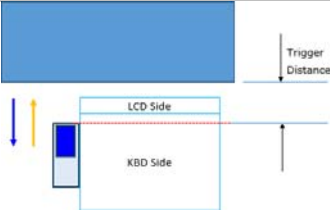
	
Proximity Sensor Trigger Distance Assessment KDB 616217 §6.2., Back	Proximity Sensor Trigger Distance Assessment KDB 616217 §6.2., Top
	
Proximity Sensor Trigger Distance Assessment KDB 616217 §6.2., Left	Proximity Sensor Trigger Distance Assessment KDB 616217 §6.2., Rear

Table: Trigger distance

Tissue simulating liquid	Trigger distance - Back		Trigger distance – Top		Trigger distance – Left		Trigger distance – Rear	
	Moving toward phantom	Moving from phantom	Moving toward phantom	Moving from phantom	Moving toward phantom	Moving from phantom	Moving toward phantom	Moving from phantom
Head Tissue Simulating Liquid	14	14	64	64	53	53	31	31

Unit: mm

Table: Test distance

Back	Top	Left	Rear
13	63	52	30

Unit: mm

Section 3 Definitions

This may contain the definitions which are not used in this report.

Specific Absorption Rate (SAR)	The time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ), as shown in the following equation: $SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$
Power density (PD) or S_{av}	The energy per unit time and unit area crossing a surface of area A characterized by the normal unit vector $\hat{n}$ and averaging time. $S_{av} = \frac{1}{AT} \iint (E \times H) \cdot \hat{n} dAdT$
Absorbed power density (APD)	The APD (absorbed power density) shall be derived from the measured SAR values using the formulas in the Compliance Assessment of the Epithelial. $APD_{1cm^2}(W/m^2) = 10(kg/m^2) \times SAR_{1g}(W/kg)$ $APD_{4cm^2}(W/m^2) = 20(kg/m^2) \times SAR_{8g}(W/kg)$
Reported SAR / PD (IPD or APD)	Measured SAR / PD (IPD or APD) is scaled to the maximum tune-up tolerance limit and the maximum duty by the following formulas. <i>Reported SAR, PD = Measured SAR, or PD × scale factor for power × scaled factor for duty(if needed) × Compensate factor(if needed)</i> Where: $Scaled\ factor\ for\ duty = \frac{1}{Duty}$ $Compensate\ factor = 10^{\frac{measurement\ uncert.[dB]}{10}} - 1 + 0.7$
Maximum Tune-up tolerance limit, Tune up limit or Tune-up limit	Maximum power including tolerance power specified by customer.

Symbol	Quantity	Unit	Dimensions
E	Electric field	volt per meter	V / m
f	Frequency	hertz	Hz
H	Magnetic field	ampere per meter	A / m
λ	Wavelength	meter	m
S	Local power density	watt per square meter	W / m ²
PD	Spatial-average power density	watt per square meter	W / m ² (mW / cm ²)
SAR	Specific Absorption Rate	watt per square meter	W / kg

Section 4 Test standard information

4.1 Test specification

☒ FCC47CFR 2.1093	RF Exposure Procedures and Equipment Authorization Policies for Portable Devices
☐ RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
☐ RSS-102 Issue 5 Amendment 1	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

4.2 Published RF exposure KDB procedures and companion procedures

Name of documents	Title
☐ KDB 447498 D01(v06)	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
☒ KDB 447498 D04(v01)	Interim General RF Exposure Guidance
☐ KDB 447498 D02(v02r01)	SAR Measurement Procedures for USB Dongle Transmitters
☐ KDB 648474 D04(v01r04)	SAR Evaluation Considerations for Wireless Handsets
☒ KDB 941225 D01(v03r01)	3G SAR Measurement Procedures
☒ KDB 941225 D05(v02r05)	SAR Evaluation Considerations for LTE Devices
☐ KDB 941225 D06(v02r01)	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
☐ KDB 941225 D07(v01r02)	SAR Evaluation Procedures for UMPC Mini-Tablet Devices
☒ KDB 616217 D04(v01r02)	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers
☒ KDB 865664 D01(v01r04)	SAR Measurement Requirements for 100MHz to 6 GHz
☐ KDB 248227 D01(v02r02)	SAR Guidance for IEEE 802.11 (Wi-Fi) transmitters
☒ KDB 680106 D01(v04)	Equipment authorization of wireless power transfer device
☐ SPR-APD Issue 1	Supplementary Procedure for Assessing Specific Absorption Rate (SAR) and Absorbed Power Density (APD) Compliance of Portable Devices in the 6 GHz Band (5925-7125 MHz)
☐ RSS-102.SAR.MEAS	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102
☐ Authority inquiry response	Included in the submission document.

4.3 Work Procedures

Name of documents	Title or details
☒ C/N: Work Instructions- ULID-003598	UL Japan, Inc.'s SAR Measurement Equipment Calibration and Inspection Work Procedure
☒ C/N: Work Instructions- ULID-003599	UL Japan, Inc.'s SAR Measurement Work Procedure
☒ 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.
☐ IEC/IEEE 62209-1528 Edition 1.0 2020-10	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-worn wireless communication devices - Human models, instrumentation and procedures (Frequency range of 4 MHz to 10 GHz)
☒ 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)
☐ C/N: Work Instructions- ULID-003619	UL Japan, Inc.'s Power Density Measurement Procedure
☐ IEC/IEEE 63195-1:2021	Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) - Part 1: Measurement procedure
☐ IEC/IEEE 63195-2:2021	Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) - Part 2: Computational procedure

4.4 Addition to Standard

No addition, exclusion nor deviation has been made from the standard.

4.5 Reference

Schmid & Partner Engineering AG, DASY Manual
TCB workshop slide decks.

Section 5 Limits

General Population / Uncontrolled Environments limit is applied.

5.1 Exposure limit for SAR (FCC)

(A) Limits for Occupational/Controlled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.4	8.0	20.0

(B) Limits for General population/Uncontrolled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.08	1.6	4.0

Occupational/Controlled Environments: are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. because of employment or occupation).

General Population/Uncontrolled Environments: are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

5.2 For PD (Above 6 GHz) (FCC)

Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1	30

Note: 1.0 mW/cm² is 10 W/m²

Section 6 Location

UL Japan, Inc. Ise EMC Lab.
Shielded room for SAR testing.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919
ISED Lab Company Number: 2973C / CAB identifier: JP0002

Section 7 Test result

7.1 Verdict

Complied
Highest result are next section.

7.2 Stand-alone SAR result

RF Exposure Conditions		Highest Reported exposure value					
		WWAN	Bluetooth	WLAN 2.4 GHz	WLAN 5 GHz	WLAN 6, 7 GHz	RFID
Standalone Tx (1-g SAR) (W/kg)	Body	0.695	N/A	N/A	N/A	N/A	N/A
	Head	N/A	N/A	N/A	N/A	N/A	N/A
	Hotspot	N/A	N/A	N/A	N/A	N/A	N/A
Standalone Tx (10-g SAR) (W/kg)	Limbs	1.938	N/A	N/A	N/A	N/A	N/A

Details are shown in appendix.

7.3 Simultaneous transmission SAR result

Simultaneous Transmission
Sum of SAR
Body: 1.142 W/kg_{1g}
Limbs: 1.761 W/kg_{10g}

Section 8 Uncertainty

Table of uncertainties are listed for ISO/IEC 17025.

8.1 0.3GHz - 6GHz range

Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std.Unc. (10g)
Measurement System Errors							
Probe Calibration	± 13.10 %	N	2	1	1	±6.6%	±6.55%
Probe Calibration Drift	± 1.7 %	R	√3	1	1	±1.0%	±1.0%
Probe Linearity	± 4.7 %	R	√3	1	1	±2.7%	±2.7%
Broadband Signal	± 2.6 %	R	√3	1	1	±1.5%	±1.5%
Probe Isotropy	± 7.6 %	R	√3	1	1	±4.4%	±4.4%
Other Probe - Electronic	± 1.2 %	N	1	1	1	±1.2%	±1.2%
RF Ambient	± 1.8 %	N	1	1	1	±1.8%	±1.8%
Probe Positioning	± 0.005 mm	N	1	0.29	0.29	±0.2%	±0.2%
Data Processing	± 2.3 %	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors							
Conductivity (meas.) ^{DAK}	± 10.0 %	N	1	0.78	0.71	±7.8%	±7.1%
Conductivity (temp.) ^{BB}	± 10.0 %	R	√3	0.78	0.71	±4.5%	±4.1%
Phantom Permittivity	± 14.0 %	R	√3	0.25	0.25	±2.0%	±2.0%
Distance DUT - TSL	± 2.0 %	N	1	2	2	±4.0%	±4.0%
Device Positioning (+/- 0.5mm)	± 1.0 %	N	1	1	1	±1.0%	±1.0%
Device Holder	± 3.6 %	N	1	1	1	±3.6%	±3.6%
DUT Modulation ^m	± 2.4 %	R	√3	1	1	±1.4%	±1.4%
Time-average SAR	± 1.7 %	R	√3	1	1	±1.0%	±1.0%
DUT drift	± 2.5 %	N	1	1	1	±2.5%	±2.5%
Val Antenna Unc. ^{val}	± 0.0 %	N	1	1	1	±0.0%	±0.0%
Unc. Input Power ^{val}	± 0.0 %	N	1	1	1	±0.0%	±0.0%
Correction to the SAR results							
Deviation to Target	± 1.9 %	N	1	1	0.84	±1.9%	±1.6%
SAR scaling ^p	± 0.0 %	R	√3	1	1	±0.0%	±0.0%
Combined Std. Uncertainty						±14.5%	±14.0%
Expanded STD Uncertainty (k=2)						±29.1%	±28.0%

Section 9 RF Exposure Conditions

9.1 SAR-based Exemption - FCC section 1.1307

Exception condition as per section 1.1307 (b)(3)(i)(B)
the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20dm} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20cm} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20dm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

And

$$ERP_{20cm} (mW) = \begin{cases} 2040 f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance in cm.

In the table below, when the minimum test separation distance is < 5 mm, a distance, 5 mm, is applied to determine SAR test exclusion¹.

when 10-g extremity SAR applies, SAR test exemption is considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

As per section 1.1307 (b)(2)

Separation distance is the minimum distance in any direction from any part of a radiating structure and any part of the body of a nearby person.

Radiating structure is an unshielded RF current-carrying conductor that generates an RF reactive near electric or magnetic field and/or radiates an RF electromagnetic wave. It is the component of an RF source that transmits, generates, or reradiates an RF fields, such as an antenna, aperture, coil, or plate.

¹ TCB workshop slide deck October 2021.

Table: body non-triggered (full power) condition

Antenna	RAT	Frequency [MHz]	Output Power dBm	mW	Ant Gain dBi	ERP		Separation Distances / Pth / Judge							
						dBm	mW	Back	Left	Top	Front	Right	Rear	Bystander	
Main	WCDMA II	1910	24.50	281.84	2.79	25.15	327.34	13 mm / 19.58 mW / Required	52 mm / 253.83 mW / Required	63 mm / 361.87 mW / Excluded	82.2 mm / 591.65 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 67.04 mW / Required	25 mm / 65.57 mW / Required	
								13 mm / 20.59 mW / Required	52 mm / 260.19 mW / Required	63 mm / 369.64 mW / Excluded	82.2 mm / 601.40 mW / Excluded	345 mm / 3060.00 mW / Required	25 mm / 69.63 mW / Required	25 mm / 68.13 mW / Required	
Main	WCDMA IV	1755	24.50	281.84	1.99	24.35	272.27	13 mm / 35.25 mW / Required	52 mm / 254.08 mW / Required	63 mm / 333.97 mW / Excluded	82.2 mm / 487.89 mW / Excluded	345 mm / 1731.96 mW / Excluded	25.3 mm / 91.02 mW / Required	25 mm / 89.49 mW / Required	
								13 mm / 19.58 mW / Required	52 mm / 253.83 mW / Required	63 mm / 361.87 mW / Excluded	82.2 mm / 591.65 mW / Excluded	345 mm / 3060.00 mW / Required	25 mm / 67.04 mW / Required	25 mm / 65.57 mW / Required	
Main	LTE B2	1910	24.00	251.19	2.79	24.65	291.74	13 mm / 20.59 mW / Required	52 mm / 260.19 mW / Excluded	63 mm / 369.64 mW / Excluded	82.2 mm / 601.40 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 69.63 mW / Required	25 mm / 68.13 mW / Required	
								13 mm / 35.25 mW / Required	52 mm / 254.08 mW / Excluded	63 mm / 333.97 mW / Excluded	82.2 mm / 487.89 mW / Excluded	345 mm / 1731.96 mW / Required	25 mm / 91.02 mW / Required	25 mm / 89.49 mW / Required	
Main	LTE B4	1755	24.00	251.19	1.99	23.85	242.66	13 mm / 19.58 mW / Required	52 mm / 253.83 mW / Required	63 mm / 361.87 mW / Excluded	82.2 mm / 591.65 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 67.04 mW / Required	25 mm / 65.57 mW / Required	
								13 mm / 20.59 mW / Required	52 mm / 260.19 mW / Excluded	63 mm / 369.64 mW / Excluded	82.2 mm / 601.40 mW / Excluded	345 mm / 3060.00 mW / Required	25 mm / 69.63 mW / Required	25 mm / 68.13 mW / Required	
Main	LTE B5	849	24.00	251.19	-0.84	21.02	126.47	13 mm / 35.25 mW / Required	52 mm / 254.08 mW / Excluded	63 mm / 333.97 mW / Excluded	82.2 mm / 487.89 mW / Excluded	345 mm / 1731.96 mW / Required	25.3 mm / 91.02 mW / Required	25 mm / 89.49 mW / Required	
								13 mm / 16.42 mW / Required	52 mm / 232.72 mW / Required	63 mm / 335.91 mW / Excluded	82.2 mm / 558.70 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 58.67 mW / Required	25 mm / 57.35 mW / Required	
Main	LTE B7	2570	24.80	302.00	-2.37	20.29	106.91	13 mm / 40.26 mW / Required	52 mm / 248.83 mW / Required	63 mm / 320.18 mW / Excluded	82.2 mm / 454.14 mW / Excluded	345 mm / 1480.64 mW / Excluded	25.3 mm / 96.57 mW / Required	25 mm / 95.06 mW / Required	
								13 mm / 37.40 mW / Required	52 mm / 251.73 mW / Excluded	63 mm / 327.76 mW / Excluded	82.2 mm / 472.57 mW / Excluded	345 mm / 1605.48 mW / Excluded	25.3 mm / 93.45 mW / Required	25 mm / 91.93 mW / Required	
Main	LTE B13	787	24.00	251.19	-1.83	20.03	100.69	13 mm / 36.99 mW / Required	52 mm / 252.16 mW / Excluded	63 mm / 328.89 mW / Excluded	82.2 mm / 475.34 mW / Excluded	345 mm / 1627.92 mW / Required	25.3 mm / 93.00 mW / Required	25 mm / 91.48 mW / Required	
								13 mm / 40.26 mW / Required	52 mm / 248.83 mW / Required	63 mm / 320.18 mW / Excluded	82.2 mm / 454.14 mW / Excluded	345 mm / 1480.64 mW / Excluded	25.3 mm / 96.57 mW / Required	25 mm / 95.06 mW / Required	
Main	LTE B17	716	24.00	251.19	-3.82	18.04	63.68	13 mm / 19.55 mW / Required	52 mm / 253.64 mW / Required	63 mm / 361.64 mW / Excluded	82.2 mm / 591.36 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 66.96 mW / Required	25 mm / 65.50 mW / Required	
								13 mm / 35.25 mW / Required	52 mm / 254.08 mW / Excluded	63 mm / 333.97 mW / Excluded	82.2 mm / 487.89 mW / Excluded	345 mm / 1731.96 mW / Excluded	25.3 mm / 91.02 mW / Required	25 mm / 89.49 mW / Required	
Main	LTE B25	1915	24.00	251.19	2.79	24.65	291.74	13 mm / 16.23 mW / Required	52 mm / 231.41 mW / Required	63 mm / 334.29 mW / Excluded	82.2 mm / 556.63 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 58.17 mW / Required	25 mm / 56.85 mW / Required	
								13 mm / 15.98 mW / Required	52 mm / 229.64 mW / Required	63 mm / 332.09 mW / Excluded	82.2 mm / 553.80 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 57.48 mW / Required	25 mm / 56.18 mW / Required	
Main	LTE B41	2690	24.80	302.00	-2.10	20.56	113.76	13 mm / 13.23 mW / Required	52 mm / 209.19 mW / Excluded	63 mm / 306.56 mW / Excluded	82.2 mm / 520.74 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 49.82 mW / Excluded	25 mm / 48.65 mW / Excluded	
								13 mm / 20.42 mW / Required	52 mm / 259.12 mW / Excluded	63 mm / 368.33 mW / Excluded	82.2 mm / 599.76 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 69.19 mW / Required	25 mm / 67.69 mW / Required	
Main	LTE B48	3700	10.90	12.30	2.59	11.35	13.65	13 mm / 19.58 mW / Required	52 mm / 253.83 mW / Required	63 mm / 361.87 mW / Excluded	82.2 mm / 591.65 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 67.04 mW / Required	25 mm / 65.57 mW / Required	
								13 mm / 35.25 mW / Required	52 mm / 254.08 mW / Required	63 mm / 333.97 mW / Excluded	82.2 mm / 487.89 mW / Excluded	345 mm / 1731.96 mW / Excluded	25.3 mm / 91.02 mW / Required	25 mm / 89.49 mW / Required	
Main	NR n5	849	24.50	281.84	-0.84	21.52	141.91	13 mm / 20.42 mW / Required	52 mm / 259.12 mW / Required	63 mm / 368.33 mW / Excluded	82.2 mm / 599.76 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 69.19 mW / Required	25 mm / 67.69 mW / Required	
								13 mm / 12.67 mW / Required	52 mm / 204.77 mW / Required	63 mm / 301.01 mW / Required	82.2 mm / 513.46 mW / Excluded	345 mm / 3060.00 mW / Excluded	25.3 mm / 48.21 mW / Required	25 mm / 47.07 mW / Required	

Table: body triggered (reduction power) condition

Antenna	RAT	Frequency [MHz]	Output Power dBm	mW	Ant Gain dBi	ERP dBm	mW	Separation Distances / Pth / Jadge Back
Main	WCDMA II	1910	18.00	63.10	2.79	18.65	73.28	5 mm / 3.35 mW / Required
Main	WCDMA IV	1755	21.00	125.89	1.99	20.85	121.62	5 mm / 3.58 mW / Required
Main	WCDMA V	849	23.50	223.87	-0.84	20.52	112.72	5 mm / 9.03 mW / Required
Main	LTE B2	1910	17.50	56.23	2.79	18.15	65.31	5 mm / 3.35 mW / Required
Main	LTE B4	1755	18.00	63.10	1.99	17.85	60.95	5 mm / 3.58 mW / Required
Main	LTE B5	849	22.00	158.49	-0.84	19.02	79.80	5 mm / 9.03 mW / Required
Main	LTE B7	2570	17.50	56.23	-2.37	12.99	19.91	5 mm / 2.64 mW / Required
Main	LTE B12	716	24.00	251.19	-3.82	18.04	63.68	5 mm / 11.47 mW / Required
Main	LTE B13	787	23.50	223.87	-1.83	19.53	89.74	5 mm / 10.05 mW / Required
Main	LTE B14	739	23.30	213.80	-1.50	19.66	92.47	5 mm / 9.85 mW / Required
Main	LTE B17	716	24.00	251.19	-3.82	18.04	63.68	5 mm / 11.47 mW / Required
Main	LTE B25	1915	16.00	39.81	2.79	16.65	46.24	5 mm / 3.34 mW / Required
Main	LTE B26	849	22.00	158.49	-0.84	19.02	79.80	5 mm / 9.03 mW / Required
Main	LTE B38	2620	17.50	56.23	-2.10	13.26	21.18	5 mm / 2.60 mW / Required
Main	LTE B41	2690	16.70	46.77	-2.10	12.46	17.62	5 mm / 2.55 mW / Required
Main	LTE B48	3700	10.90	12.30	2.59	11.35	13.65	5 mm / 1.97 mW / Required
Main	LTE B66	1780	18.00	63.10	1.99	17.85	60.95	5 mm / 3.54 mW / Required
Main	NR n2	1910	14.90	30.90	2.79	15.55	35.89	5 mm / 3.35 mW / Required
Main	NR n5	849	19.40	87.10	-0.84	16.42	43.88	5 mm / 9.03 mW / Required
Main	NR n66	1790	16.50	44.67	1.99	16.35	43.15	5 mm / 3.54 mW / Required
Main	NR n77	3980	17.00	50.12	2.59	17.45	55.59	5 mm / 1.86 mW / Required

Table: limbs non-triggered (full power) condition

Antenna	RAT	Frequency [MHz]	Output Power dBm	mW	Ant Gain dBi	ERP dBm	mW	Separation Distances / Pth / Jadge Front
Main	WCDMA II	1910	24.50	281.84	2.79	25.15	327.34	5 mm / 3.35 mW / Required
Main	WCDMA IV	1755	24.50	281.84	1.99	24.35	272.27	5 mm / 3.58 mW / Required
Main	WCDMA V	849	24.50	281.84	-0.84	21.52	141.91	5 mm / 9.03 mW / Required
Main	LTE B2	1910	24.00	251.19	2.79	24.65	291.74	5 mm / 3.35 mW / Required
Main	LTE B4	1755	24.00	251.19	1.99	23.85	242.66	5 mm / 3.58 mW / Required
Main	LTE B5	849	24.00	251.19	-0.84	21.02	126.47	5 mm / 9.03 mW / Required
Main	LTE B7	2570	24.80	302.00	-2.37	20.29	106.91	5 mm / 2.64 mW / Required
Main	LTE B12	716	24.00	251.19	-3.82	18.04	63.68	5 mm / 11.47 mW / Required
Main	LTE B13	787	24.00	251.19	-1.83	20.03	100.69	5 mm / 10.05 mW / Required
Main	LTE B14	798	24.00	251.19	-1.50	20.36	108.64	5 mm / 9.85 mW / Required
Main	LTE B17	716	24.00	251.19	-3.82	18.04	63.68	5 mm / 11.47 mW / Required
Main	LTE B25	1915	24.00	251.19	2.79	24.65	291.74	5 mm / 3.34 mW / Required
Main	LTE B26	849	24.00	251.19	-0.84	21.02	126.47	5 mm / 9.03 mW / Required
Main	LTE B38	2620	24.00	251.19	-2.10	19.76	94.62	5 mm / 2.60 mW / Required
Main	LTE B41	2690	24.80	302.00	-2.10	20.56	113.76	5 mm / 2.55 mW / Required
Main	LTE B48	3700	10.90	12.30	2.59	11.35	13.65	5 mm / 1.97 mW / Required
Main	LTE B66	1780	24.00	251.19	1.99	23.85	242.66	5 mm / 3.54 mW / Required
Main	NR n2	1910	24.50	281.84	2.79	25.15	327.34	5 mm / 3.35 mW / Required
Main	NR n5	849	24.50	281.84	-0.84	21.52	141.91	5 mm / 9.03 mW / Required
Main	NR n66	1790	24.50	281.84	1.99	24.35	272.27	5 mm / 3.54 mW / Required
Main	NR n77	3980	24.50	281.84	2.59	24.95	312.61	5 mm / 1.86 mW / Required

Table: limbs triggered (reduction power) condition

Antenna	RAT	Frequency [MHz]	Output Power		Ant Gain dBi	ERP		Separation Distances / Pth / Jadge				
			dBm	mW		dBm	mW	Back	Left	Top	Top tilt	Rear
Main	WCDMA II	1910	18.00	63.10	2.79	18.65	73.28	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required
Main	WCDMA IV	1755	21.00	125.89	1.99	20.85	121.62	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required
Main	WCDMA V	849	23.50	223.87	-0.84	20.52	112.72	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required
Main	LTE B2	1910	17.50	56.23	2.79	18.15	65.31	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required
Main	LTE B4	1755	18.00	63.10	1.99	17.85	60.95	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required	5 mm / 3.58 mW / Required
Main	LTE B5	849	22.00	158.49	-0.84	19.02	79.80	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required
Main	LTE B7	2570	17.50	56.23	-2.37	12.99	19.91	5 mm / 2.64 mW / Required	5 mm / 2.64 mW / Required	5 mm / 2.64 mW / Required	5 mm / 2.64 mW / Required	5 mm / 2.64 mW / Required
Main	LTE B12	716	24.00	251.19	-3.82	18.04	63.68	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required
Main	LTE B13	787	23.50	223.87	-1.83	19.53	89.74	5 mm / 10.05 mW / Required	5 mm / 10.05 mW / Required	5 mm / 10.05 mW / Required	5 mm / 10.05 mW / Required	5 mm / 10.05 mW / Required
Main	LTE B14	798	23.30	213.80	-1.50	19.66	92.47	5 mm / 9.85 mW / Required	5 mm / 9.85 mW / Required	5 mm / 9.85 mW / Required	5 mm / 9.85 mW / Required	5 mm / 9.85 mW / Required
Main	LTE B17	716	24.00	251.19	-3.82	18.04	63.68	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required	5 mm / 11.47 mW / Required
Main	LTE B25	1915	16.00	39.81	2.79	16.65	46.24	5 mm / 3.34 mW / Required	5 mm / 3.34 mW / Required	5 mm / 3.34 mW / Required	5 mm / 3.34 mW / Required	5 mm / 3.34 mW / Required
Main	LTE B26	849	22.00	158.49	-0.84	19.02	79.80	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required
Main	LTE B38	2620	17.50	56.23	-2.10	13.26	21.18	5 mm / 2.60 mW / Required	5 mm / 2.60 mW / Required	5 mm / 2.60 mW / Required	5 mm / 2.60 mW / Required	5 mm / 2.60 mW / Required
Main	LTE B41	2690	16.70	46.77	-2.10	12.46	17.62	5 mm / 2.55 mW / Required	5 mm / 2.55 mW / Required	5 mm / 2.55 mW / Required	5 mm / 2.55 mW / Required	5 mm / 2.55 mW / Required
Main	LTE B48	3700	10.90	12.30	2.59	11.35	13.65	5 mm / 1.97 mW / Required	5 mm / 1.97 mW / Required	5 mm / 1.97 mW / Required	5 mm / 1.97 mW / Required	5 mm / 1.97 mW / Required
Main	LTE B66	1780	18.00	63.10	1.99	17.85	60.95	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required
Main	NR n2	1910	14.90	30.90	2.79	15.55	35.89	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required	5 mm / 3.35 mW / Required
Main	NR n5	849	19.40	87.10	-0.84	16.42	43.85	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required	5 mm / 9.03 mW / Required
Main	NR n66	1780	16.50	44.67	1.99	16.35	43.15	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required	5 mm / 3.54 mW / Required
Main	NR n77	3980	17.00	50.12	2.59	17.45	55.59	5 mm / 1.86 mW / Required	5 mm / 1.86 mW / Required	5 mm / 1.86 mW / Required	5 mm / 1.86 mW / Required	5 mm / 1.86 mW / Required

Section 10 RF Exposure Conditions

10.1 Test position

According to the previous considerations, following position is required.

The test was conservatively performed with test distance 0 mm.

Table Test position body condition

Position	Test distance	full power	Test distance	reduction power
Back	13 mm	☒	0 mm	☒
Left	52 mm	☒	0 mm	☐
Top	63 mm	☒	0 mm	☐
Front	0 mm	☒	0 mm	☐
Right	0 mm	☐	0 mm	☐
Rear	0 mm	☐	0 mm	☐

The end users do not approach the positions of the device under the normal use case: at rear of full power, and at the position other than back of reduction power.

Table Test position limbs condition

Position	Test distance	full power	reduction power
Back	0 mm	☐	☒
Left	0 mm	☐	☒
Top	0 mm	☐	☒
Top tilt	0 mm	☐	☒
Front	0 mm	☐	☐
Right	0 mm	☐	☐
Rear	0 mm	☐	☒

1g SAR value is higher than 10 g SAR value at front side, data show only 1g value for conservative testing for compliance.

Section 11 Dielectric Property

11.1 Dielectric Property for SAR

The dielectric parameters were checked prior to assessment using the DAK dielectric probe kit.

+/- 5 % tolerances are required for ϵ_r and σ and below table is the target value of the simulated tissue liquid.

For SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013 or IEC/IEEE 62209-1528, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ϵ_r and σ may be relaxed to $\pm 10\%$.

The dielectric parameters are linearly interpolated between the closest pair of target frequencies to determine the applicable dielectric parameters corresponding to the device test frequency.

Tissue dielectric parameters are typically re-measured every three to four days or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Measured value is rounded off on the test plot data, so some differences might be observed. However, differences don't affect the result of SAR. Results are listed in appendix.

Table standard parameters on the IEC 62209-1²

Frequency MHz	Relative permittivity ϵ_r	Conductivity S/m	Frequency MHz	Relative permittivity ϵ_r	Conductivity S/m
300	45.3	0.87	2300	39.5	1.67
450	43.5	0.87	2450	39.2	1.80
750	41.9	0.89	2600	39.0	1.96
835	41.5	0.90	3000	38.5	2.40
900	41.5	0.97	3500	37.9	2.91
1450	40.5	1.20	4000	37.4	3.43
1500	40.4	1.23	4500	36.8	3.94
1640	40.2	1.31	5000	36.2	4.45
1750	40.1	1.37	5200	36.0	4.66
1800	40.0	1.40	5400	35.8	4.86
1900	40.0	1.40	5600	35.5	5.07
2000	40.0	1.40	5800	35.3	5.27
2100	39.8	1.49	6000	35.1	5.48

Table standard parameters on the IEC/IEEE 62209-1528³

Frequency MHz	Real part of the complex relative permittivity, ϵ_r	Conductivity, σ S/m
6000	35.1	5.48
6500	34.5	6.07
7000	33.9	6.65
7500	33.3	7.24
8000	32.7	7.84
8500	32.1	8.46
9000	31.6	9.08
9500	31.0	9.71
10000	30.4	10.40

Frequency MHz	Real part of the complex relative permittivity, ϵ_r	Conductivity, σ S/m
4	55.0	0.75
13	55.0	0.75
30	55.0	0.75

² TCB workshop April 2019, Tissue Simulating Liquids (TSL)

³ TCB workshop October 2020, for U-NII 6-7GHz Measurement considerations.

Section 12 SAR Measurements

12.1 Measurement configuration for SAR

12.1.1 SAR evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point, central position of flat phantom or found highest point based on fast scan was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was based on standard's grids size.

Step 3: Around this point found in the Step 2 (area scan), zoom scan is conducted based on the standard's grids size.

And for any secondary peaks found in the Step2 which are within 2 dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

Step 4: Re-measurement of the point of SAR at the same location as in Step 1.

Confirmation after SAR testing

It was checked that the power drift [W/kg] is within +/-5 %. The verification of power drift during the SAR test is that DASY system calculates the power drift by measuring the e-field at the same location at beginning and the end of the scan measurement for each test position.

DASY system calculation power drift value [dB] = $10 \log \left(\frac{W_a}{W_b} \right)$

Before SAR testing : Wb [W/kg]

After SAR testing : Wa [W/kg]

Limit of power drift[W] = +/- 5 %

X[dB] = $10 \log[P] = 10 \log(1.05/1) = 10 \log(1.05) - 10 \log(1) = 0.212 \text{ dB}$

Table step size.

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$\frac{1}{2} \delta \ln(2) \text{ mm} \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$ $6 - 7 \text{ GHz}: \leq 8.57 \text{ mm}$
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^1$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}$ $6 - 7 \text{ GHz}: \leq 3.4 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	≤ 5 mm	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$ $6 - 7 \text{ GHz}: \leq 1.6 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$ $6 - 7 \text{ GHz}: \leq 1.7 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1) \text{ mm}$
Minimum zoomscan volume	x, y, z	≥ 30 mm	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 7 \text{ GHz}: \geq 22 \text{ mm}$

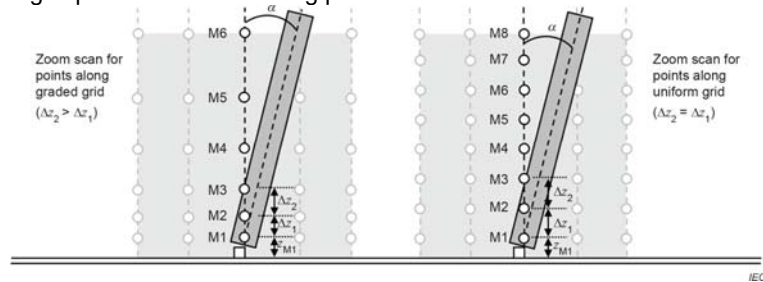
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std1528-2013 for details.

Additional Requirements⁴

Unless the following criteria are met, zoom-scan measurement shall be successively repeated using smaller increments, at 2 mm or less from phantom surface

- maximum 1 g SAR < 0.1 W/kg, or
- both of the following are met:
 - shortest transverse distances d_x and d_y between SAR peak location and -3 dB points shall be larger than Δx_{Zoom} and Δy_{Zoom} , respectively.
 - at the SAR peak location, the ratio of SAR values from the first two z-axis, M1 to M2 points is ≤ 30 %.

Fig explanation of measuring point for z direction



⁴ TCB workshop slide deck, November 2019

Section 13 SAR System check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, for FCC typically every three to four days, for ISED every 24 h when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ± 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.

The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm $\pm$ 0.5 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm $\pm$ 0.5 cm for measurements > 3 GHz.

The DASY system with an E-Field Probe was used for the measurements.

The reference transmitter was mounted on the small tripod so that the transmitter feed point was positioned below the center marking of the flat phantom section and the transmitter was oriented parallel to the body axis (the long side of the phantom).

Table: The standard measuring distance

Frequency range	Distance between dipole or CLA
Below than 300 MHz	0 mm
0.3 GHz to 1 GHz	15 mm
1 GHz to 6 GHz	10 mm
6 GHz to 10 GHz	5 mm

The scan step was conducted based on the previous section specified.

Distance between probe sensors and phantom surface was set to 1.4 mm.

The transmitter input power (forward power) was 1W, 100 mW, 250 mW or 17 dBm (50.11 mW), 50 mW is not adjustable, so measured value is listed in the table of SPC.

The results are normalized to 1 W input power other than 1 W input power.

The target(reference) SAR values can be obtained from the calibration certificate of system validation dipoles or CLA, refer to appendix. The target SAR values are quoted from "SAR for nominal Head TSL parameters" on calibration record. The scaled SAR value shall not deviate from the targets by more than ± 10 %. System check results are listed on appendix.

Section 14 SAR requirement

14.1 Common

This procedure covers every condition, so some conditions are not applicable.

When reported SAR value is exceed 1.2 W/kg (if any), device holder perturbation verification is required; however, since distance between device holder and antenna of EUT is enough, it was not conducted.

The sample calculations are shown in definition.

Next section describes the general RF exposure evaluation requirements and serves as an entry point. If the more specific RF exposure guidance existed, it takes proceed than this.

when 10-g extremity SAR applies, flowing SAR thresholds are considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

14.2 Channel Selection Requirement

This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the mid-band or highest output power channel meets any of the following conditions:

1. $SAR \leq 0.8 \text{ W/kg}$ for 1-g, or $SAR \leq 2.0 \text{ W/kg}$ for 10-g, when the transmission band span is $\leq 100 \text{ MHz}$
2. $SAR \leq 0.6 \text{ W/kg}$ for 1-g, or $SAR \leq 1.5 \text{ W/kg}$ for 10-g, when the transmission band span is between 100 MHz and 200 MHz
3. $SAR \leq 0.4 \text{ W/kg}$ for 1-g, or $SAR \leq 1.0 \text{ W/kg}$ for 10-g, when the transmission band span is $\geq 200 \text{ MHz}$

SAR measurement standards such as IEEE Std 1528-2013 requires the middle channel to be tested first. This generally applies to wireless devices that are designed to operate in technologies with tight tolerances for maximum output power variations across channels in the band. When the maximum output power variation across the required test channels is $> \frac{1}{2} \text{ dB}$, instead of the middle channel, the highest output power channel must be used.

Section 15 WWAN SAR requirement

This porcdure covers every condition, so some conditions are not applicable.

15.1 MPR and signal configuration for conducted output power

15.1.1 WCDMA Considerations

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
W-CDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	11/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
HSDPA Specific Settings	D _{ACK}	8			

HSPA (HSDPA & HSUPA)

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	HSPA	HSPA	HSPA	HSPA	HSPA
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	15/15
	β_{ec}	209/225	12/15	30/15	2/15	24/15
	β_c/β_d	11/15	6/15	15/9	2/15	15/15
	β_{hs}	22/15	12/15	30/15	4/15	30/15
	β_{ed}	1309/225	94/75	47/15 47/15	56/75	134/15
	CM (dB)	1.0	3.0	2.0	3.0	1.0
	MPR (dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	Ahs = β_{hs}/β_c	30/15				
HSUPA Specific Settings	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_TFCIs	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27	

DC-HSDPA Setup Procedures used to establish the test signals

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

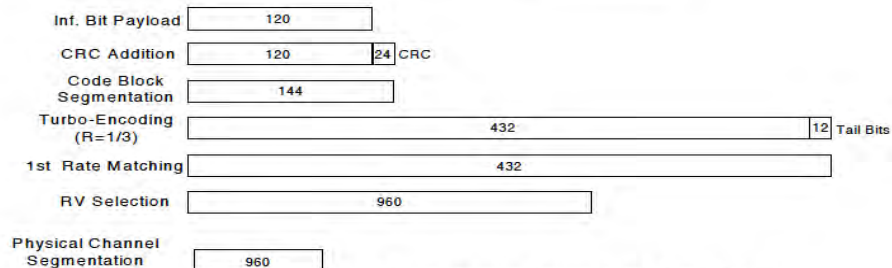


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

HSPA+

The following 1 Sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hz} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

15.1.2 LTE configuration

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2 dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A

15.1.3 NR Considerations

Factory Test Mode (FTM) is used for SAR testing, 100 % duty.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2 dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.2-1 of the 3GPP TS36.101.

Modulation		MPR (dB)		
DFT-s-OFDM	Pi/2 BPSK	Edge RB allocations	Outer RB allocations	Inner RB allocations
		≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹
	Pi/2 BPSK w Pi/2 BPSK DMRS	≤ 0.5 ²	≤ 0.5 ²	0 ²
		≤ 0.5 ²	≤ 0 ²	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM		≤ 2.5	
	256 QAM		≤ 4.5	
	CP-OFDM			
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

The allowed A-MPR values specified below in Table 6.2.3.1-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Network signalling label	Requirements (clause)	NR Band	Channel bandwidth (MHz)	Resources blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Table 5.3.2-1	N/A

15.2 KDB 941225 D01 (SAR test for 3G device):

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

15.3 KDB 941225 D01 (SAR for LTE Devices):

SAR test reduction is applied using the following criteria:

- Beginning with QPSK modulation at the largest channel bandwidth, testing for 1 RB allocation configurations is initially performed for the channel/RB offset combination with the highest output power among 1 RB allocation configurations.
 - o When the reported SAR for the initial measurement is < 0.8 W/kg, no further assessment is required for 1 RB allocation configurations.
 - o When the reported SAR for the initial measurement is > 0.8 W/kg, the remaining channels are evaluated using the RB offset with the highest output power within the respective channels.
 - o For all reported SAR that is > 1.45 W/kg, SAR is required for the remaining RB offset configurations of the same channel.
- The same procedures apply to QPSK 50 % RB allocation configurations at the largest channel bandwidth.
- Testing for 100 % RB allocation configurations at the largest channel bandwidth is performed for the channel, across low, mid and high, with the highest output power, when the highest reported SAR for either 1 RB or 50 % RB is ≥ 0.8 W/kg, or when the maximum output power among 100 % RB allocation configurations is greater than the maximum output power among either 1 RB or 50 % RB allocation configurations.
 - o Testing for the remaining channels in 100 % RB allocation configurations is required only when reported SAR for the initial 100 % RB allocation configuration is > 1.45 W/kg.
- Testing for higher order modulations (16-QAM or 64-QAM) is required only when the highest reported SAR for QPSK is > 1.45 W/Kg or if its output power is more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is required only when the highest reported SAR for the highest channel bandwidth is > 1.45 W/Kg or if its output power is more than 0.5 dB higher than that of the highest channel bandwidth.

15.4 SAR for NR Devices

As per TCBW⁵,

- Initial NR configurations selected using approach adapted from 5.2 of KDB Pub. 941225 D05.
- Factory Test Mode should be used for testing in interim.
- EN-DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN-DC power level (if supported SA mode)

As per TCBW⁶

PAG requirements for both intra-band and inter-band NSA EN-DC are as follows:

- Case 1: If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1 g SAR values are less than 1.45 W/kg, additional measurements are not needed; PAG may be waived via pre-TCB KDB inquiry test plan consultation
- Case 2: If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures KDB Pub.865664 D01; PAG is required.
- Case 3: If the algebraic sum of the 1-g SAR values is greater than 1.45 W/kg, additional measurements might be needed; PAG is required.

⁵ TCB workshop slide deck, April 2019

⁶ TCB workshop slide deck, November 2019

15.5 LTE CA measurement combination

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

15.5.1 LTE DLCA measurement combination

The data is shown in appendix of DLCA Power measurements result.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination.
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.
- All bands required for SAR testing per FCC KDB procedures were considered.

General PCC and SCC configuration selection procedure:

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

Downlink CA with Downlink 4x4 MIMO RF Conducted Powers:

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described above were applied.

Downlink CA with Uplink CA Enabled:

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

15.5.2 LTE Up-Link Carrier Aggregation

The data is shown in appendix of SAR measurements result

Uplink CA Configuration:

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

Intra-band uplink CA

The contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power applicable to the DUT in table below. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Intra-band uplink CA

The carrier aggregation with uplink assigned to one E-UTRA band (Table 5.6A-1), the requirements in subclause 6.2.3 apply. The aggregation with one component carrier per operating band and the uplink active in two E-UTRA bands, the requirements in subclause 6.2.3 apply for each uplink component carrier.

Modulation	CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration					MPR (dB)
	15 RB	25 RB	50 RB	75 RB	100 RB	
QPSK	> 4 and ≤ 15	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	>15	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 4 and ≤ 15	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	>15	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 4 and allocation wholly contained within a single CC	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 4 or allocation extends across two CC's	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3
256 QAM	≥ 1					≤ 5

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPKD modulation for the corresponding transmission bandwidth.

Uplink CA Conducted Powers:

This device supports uplink carrier aggregation for some LTE bands 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 noncontiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.

Uplink SAR

Intra-band uplink CA SAR

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05.

- UL PCC configuration is determined by the required test channel.
- SCC and subsequent CCs are added:
 - alternatively, to either side of the PCC or
 - within the transmission band for channels at the ends of a frequency band
- SAR for UL CA is required in each exposure condition (highest standalone head test position, body etc.) and frequency band combination.
- When the maximum output for UL CA is $\leq$ standalone LTE mode (without CA)
 - PCC is configured according to the highest standalone SAR configuration tested.
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC.
- When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based).
- UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Inter band uplink CA SAR

According to October 2018 TCB workshop, Uplink CA SAR Test Guidance as follows:

- Provide the single uplink SAR values you have obtained for the relevant SAR configurations and frequency bands that employ inter-band uplink carrier aggregation.
- If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
- If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.
- If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance.
- Maximum Output Power (Tune-up Limit) and SAR test exemption for LTE UL Carrier Aggregation
- Test positions and test channels used for the testing below are based on the standalone worst-case SAR results.
- UL CA SAR was estimated based on standalone results.

15.6 Repeated measurement

According to KDB 865664 D01.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Repeat is not required because of less than 0.8 W/kg.

Section 16 Simultaneous transmission SAR test exclusion considerations

Data is shown in appendix of Simultaneous transmission

16.1 Sum and SPLSR

KDB 447498 D04 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

If DUT is an “accessories and peripherals”, emissions due to other independently authorized transmitters (e.g., “accessories”) do not need to be considered to account for possible cumulative effects with the emissions from the device under test⁷.

Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based on sum of SAR, the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit, then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met. When a pair of the summation is above 1.58 W/kg for 1g SAR, then SAR to Peak Location Ratio (SPLSR) is performed, as conservative even though applicable limit is 1.6 W/kg. finally sum of SAR value is convert to TER, see next section.

SAR to Peak Location Ratio (SPLSR)

General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$Ri = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$SPLSR \leq 0.04$$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest reported SAR for the frequency bands should be used to determine SAR₁.or SAR₂. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

⁷ 2024 April TCBW slide decks

Hybrid SAR to Peak Location Ratio (SPLSR)^{8 9}

For devices whose simultaneous SAR is > 1.6 W/kg and who do not meet the SPLSR criteria, enlarged zoom scan/volume scan procedure is available. Often needed only because one collocated antenna pair does not meet SPLSR.

Test Procedure

- Perform enlarged zoom scan/volume scan on the co-located antenna pair to determine 1g/10g aggregate SAR
- Apply SPLSR procedure for the spatially separated antenna and aggregate SAR distribution of the collocated antenna pair.

Instead of doing a small volume scan over a co-located antenna pair, you may algebraically sum the SAR values of the co-located pair and use that value in SPLSR calculation.

- In the calculation you must use the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative

16.2 Total exposure ratio

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) shall be used to determine exemption for simultaneous transmission according to Formula from § 1.1307(b)(3)(ii)(B).

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

a: number of fixed, mobile, or portable RF sources claiming exemption using the § 1.1307(b)(3)(i)(B) formula for *P_{th}*, including existing exempt transmitters and those being added.

b: number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added.

c: number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.

P_i: the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source *i* at a distance between 0.5 cm and 40 cm (inclusive).

P_{th,i}: the exemption threshold power (*P_{th}*) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source *i*. Also, The *P_{th}* is described at section "SAR Exposure Conditions"

ERP_j: the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source *j*.

ERP_{th,j}: exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.

Evaluated_k: the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation.

MPE calculation formula for portable RF source:

$$MPE = \frac{Power \times Gain}{4\pi r^2}$$

Where:

Power: tune up limit in mW unit

Gain: antenna gain in liner unit

r: 20 cm

Exposure Limit_k: either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable

⁸ 2019 November TCBW slide decks.

⁹ 2022 April TCBW slide decks.

Section 17 proximity sensor triggering verification

According to KDB 616217 D04.

17.1 Procedures for determining proximity sensor triggering distances

- a) The relevant transmitter should be set to operate at its normal maximum output power.
- b) The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue-equivalent medium, and positioned at least 20 mm further than the distance that triggers power reduction.²⁴
- c) It should be ensured that the cables required for power measurements are not interfering with the proximity sensor. Cable losses should be properly compensated to report the measured power results.²⁵
- d) The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
- e) The back surface or edge is then moved back (further away) from the phantom by at least 5 mm or until maximum output power is returned to the normal maximum level.
- f) The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom. If 1 mm resolution is not suitable for the sensor triggering sensitivity, a KDB inquiry should be submitted to determine alternative test configurations.
- g) If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
- h) The process is then reversed by moving the tablet away from the phantom according to steps d) to g), to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
- i) The measured output power within +/- 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated in the SAR report.
- j) If the sensor design and implementation allow additional variations for triggering distance tolerances, multiple samples should be tested to determine the most conservative distance required for SAR evaluation.
- k) To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

17.2 Procedures for determining tablet tilt angle influences to proximity sensor triggering

- a) The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in previous section by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is +/- 45 deg or more from the vertical position at 0 deg.
- b) If sensor triggering is released and normal maximum output power is restored within the +/- 45 deg range, the procedures in step a) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
- c) The smallest separation distance determined in steps a) and b), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in previous section and this section for each triggering condition minus 1 mm should be used in the SAR measurements.

Result is listed in the appendix.

Section 18 Test instrument

18.1 Used instrument list

Power measurement

LIMS ID	Description	Manufacturer	Model	Serial	Last Cal Date	Interval
196430	Microwave Cable	Huber+Suhner	SF102D/11PC24/11PC24/1000mm	537059/126E A	2024/02/26	12
141366	Attenuator	Weinschel Associates	WA56-20	56200213	2024/05/28	12
196147	Directional Coupler	Agilent Technologies	87300B	MY39500119	2024/04/11	12
196372	UXM 5G Wireless Test Platform	Keysight Technologies Inc	E7515B	MY59321679	2024/02/15	12
208186	Power Sensor	Rohde & Schwarz	NRP50S	101418	2024/08/30	12
88581	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	-	-
141833	Power sensor	Keysight Technologies Inc	N8482H	MY53050001	2024/06/12	12
141808	Dual Power Meter	Keysight Technologies Inc	E4419B	MY45102060	2024/08/20	12
244706	Thermo-Hygrometer	A & D	AD-5648A	1003	2024/01/25	12
141171	Attenuator(20dB)_DC-1GHz_N	Weinschel Corp	MODEL 1	BG0143	2023/12/06	12

SAR (1/3)

LIMS ID	Description	Manufacturer	Model	Serial	Last Cal Date	Interval
141182	Dielectric assessment software	Schmid & Partner Engineering AG	DAK	-	-	-
176484	Head Simulating Liquid	Schmid & Partner Engineering AG	HBBL600-10000V6	SL AAH U16 BC	-	-
141471	Dielectric assessment kit	Schmid & Partner Engineering AG	DAKS-3.5	0008	2024/04/16	12
251453	Analyzer, Network	Rohde & Schwarz	ZNL14	200030	2024/07/12	12
141574	Digital thermometer	LKM electronic	DTM3000	-	2024/08/24	12
142865	Water, distilled	KISHIDA CHEMICAL Co.,Ltd.	020-85566	K70244M	-	-
173900	Software for MA24106A	Anritsu Corporation	Anritsu PowerXpert	-	-	-
142313	Attenuator	Telegartner	J01156A0011	42294119	-	-
141808	Dual Power Meter	Keysight Technologies Inc	E4419B	MY45102060	2024/08/20	12
221492	Power sensor	Keysight Technologies Inc	E9300H	MY62080002	2024/08/20	12
141843	Power sensor	Anritsu Corporation	MA24106A	1026164	2024/03/15	12
141844	Power sensor	Anritsu Corporation	MA24106A	1031504	2024/03/15	12
142561	Dual Directional Coupler	Keysight Technologies Inc	778D	MY52180243	-	-
141890	Signal Generator	Keysight Technologies Inc	N5181A	MY47421098	2023/11/10	12
244705	Thermo-Hygrometer	A & D	AD-5648A	1002	2024/01/25	12
221493	Power Sensor	Anritsu Corporation	MA24118A	2123074	2024/08/20	12
221497	Power Sensor	Anritsu Corporation	MA24118A	2123095	2024/08/20	12
142559	Dual Directional Coupler	Hewlett Packard	772D	2839A0016	-	-
249557	RF Power Source	Schmid & Partner Engineering AG	POWERSOURCE1	4357	2024/05/27	12

SAR (2/3)

LIMS ID	Description	Manufacturer	Model	Serial	Last Cal Date	Interval
141482	Data Acquisition Electronics	Schmid & Partner Engineering AG	DAE4	509	2024/08/09	12
141484	Data Acquisition Electronics	Schmid & Partner Engineering AG	DAE4	1372	2024/03/12	12
141483	Data Acquisition Electronics	Schmid & Partner Engineering AG	DAE4	1369	2024/05/15	12
245238	Data Acquisition Electronics	Schmid & Partner Engineering AG	DAE4	518	2024/04/10	12
141597	Dosimetric E-Field Probe	Schmid & Partner Engineering AG	EX3DV4	3825	2024/07/10	12
141589	Dosimetric E-Field Probe	Schmid & Partner Engineering AG	EX3DV4	3922	2024/08/09	12
141869	Dosimetric E-Field Probe	Schmid&Partner Engineering AG	EX3DV4	7372	2024/06/18	12
141598	Dosimetric E-Field Probe	Schmid & Partner Engineering AG	EX3DV4	3917	2024/05/21	12
141480	Dipole Antenna	Schmid&Partner Engineering AG	D750V3	1058	2024/05/16	12
141455	Dipole Antenna	Schmid & Partner Engineering AG	D900V2	155	2022/12/06	24
141964	Dipole Antenna	Schmid&Partner Engineering AG	D1750V2	1089	2022/03/15	36
141965	Dipole Antenna	Schmid&Partner Engineering AG	D1900V2	5d169	2022/03/15	36
141479	Dipole Antenna	Schmid&Partner Engineering AG	D2600V2	1030	2022/03/18	36
151367	Dipole Antenna	Schmid & Partner Engineering AG	D3500V2	1052	2022/12/14	24
200734	Dipole Antenna	Schmid & Partner Engineering AG	D3700V2	1078	2022/07/14	36
210934	Dipole Antenna	Schmid & Partner Engineering AG	D3900V2	1006	2022/04/19	36
142248	SAR robot	Schmid & Partner Engineering AG	TX60 Lspeag	F13/5PP1D1/A/01	2024/04/30	12
142057	2mm Oval Flat Phantom	Schmid&Partner Engineering AG	QDOVA001BB	1203	2024/05/31	12
142249	SAR robot	Schmid & Partner Engineering AG	TX60 Lspeag	F13/5PP1A1/A/01	2024/04/30	12
142058	2mm Oval Flat Phantom	Schmid&Partner Engineering AG	QDOVA001BB	1207	2024/05/31	12
142247	SAR robot	Schmid & Partner Engineering AG	TX60 Lspeag	F10/5E3LA1/A/01	2024/04/30	12
142056	2mm Oval Flat Phantom	Schmid & Partner Engineering AG	QDOVA001BB	1045	2024/05/31	12
244706	Thermo-Hygrometer	A & D	AD-5648A	1003	2024/01/25	12
244703	Thermo-Hygrometer	A & D	AD-5648A	1001	2024/01/25	12
244705	Thermo-Hygrometer	A & D	AD-5648A	1002	2024/01/25	12

SAR (3/3)

LIMS ID	Description	Manufacturer	Model	Serial	Last Cal Date	Interval
142484	Device holder	Schmid & Partner Engineering AG	Mounting device for transmitter	-	2023/11/17	12
142489	Device holder	Schmid & Partner Engineering AG	Mounting device for transmitter	-	2023/11/17	12
142488	Device holder	Schmid & Partner Engineering AG	Mounting device for transmitter	-	2023/11/17	12
196372	UXM 5G Wireless Test Platform	Keysight Technologies Inc	E7515B	MY59321679	2024/02/15	12
155908	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	140481	-	-
141959	Radio Communication Analyzer	Anritsu Corporation	MT8821C	6201547850	-	-
173681	Radio Communication Analyzer	Anritsu Corporation	MT8821C	6261879781	-	-

Lims ID 196372, 155908, 141959 and 173681 are used only making the connection for SAR testing.

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

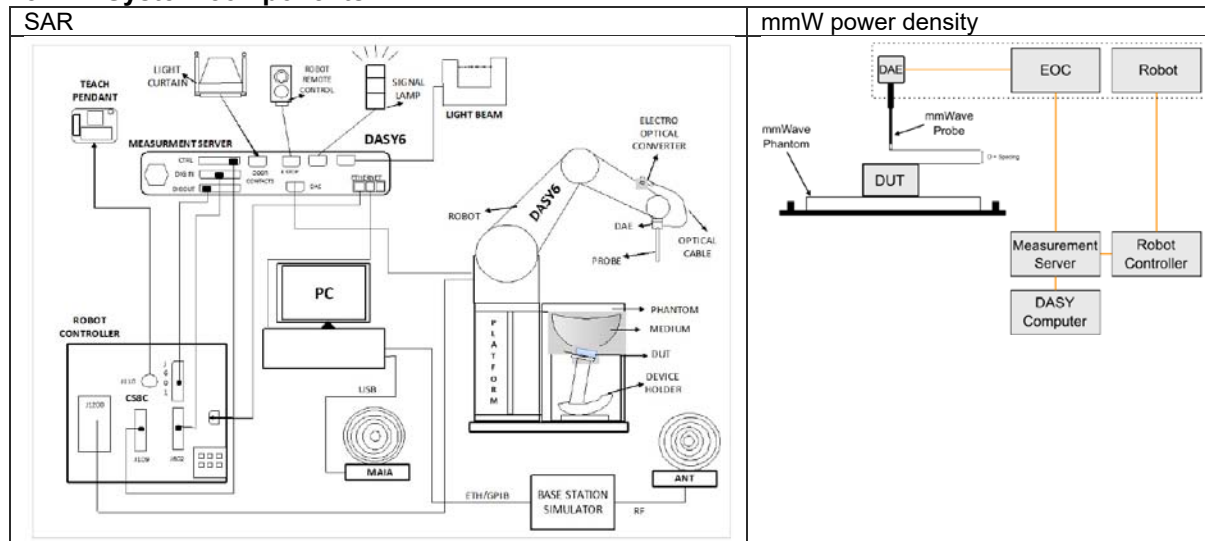
The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

18.2 Test system

18.2.1 System components



18.2.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE4 or DAE3) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter, and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

18.2.3 Probes (SAR)

Dosimetric Probes: These probes are specially designed and calibrated for use in liquids with high permittivities. They should not be used in air, since the spherical isotropy in air is poor (± 2 dB). The dosimetric probes are specially calibrated in various liquids at different frequencies.

18.2.4 Probes (mmWave)

Dimensions and spatial resolutions:

- Overall length: 320 mm (tip: 20 mm)
- Tip diameter: encapsulation 8 mm (internal sensor < 1 mm)
- Distance from probe tip to dipole centers: < 2 mm
- Sensor displacement to probe's calibration point: < 0.3 mm
- linearity error and isotropy: included by calibration data
- dynamic range: $< 50 - 10'000$ V/m with PRE-10 (min $< 50 - 3000$ V/m)

18.2.5 EOC

The electrooptical converter (EOC), which is mounted on the robot arm. An internal data link is used from the EOC to the robot back panel. From there, a 10-meter cable connects to the measurement server DAE input.

18.2.6 Robot

The DASy uses the high precision industrial robots TX60L from Stuaubli SA (France).

18.2.7 Simulated Tissues (Liquid)

series of tissue simulating liquids are available for various testing applications. The dielectric parameters of these liquids are matched to the target tissue parameters over a certain frequency range. A summary of available liquids is as follows:

Broad-Band Solutions (±10% Tolerance)	Product HBBL4-250V3 HBBL600-10000V6	Test Frequency (MHz) 4 – 250 600 – 10000	Main Ingredients Water, Tween Water, Oil

18.2.8 Others

The SAR phantom, mmW phantom, the device holder and other accessories according to the targeted measurement.

Appendix Dielectric Property result

Date	Temperature [deg. C]	Humidity [RH %]	Frequency [MHz]	Permittivity			Conductivity			Tolerance	Depth [cm]	Note
				Measured	Target	Delta	Measured	Target	Delta			
				ϵ'	ϵ'	[%]	σ [S/m]	σ [S/m]	[%]			
2024/7/17	20.8	56	1650	39.15	40.21	-2.64	1.29	1.31	-1.53	+/- 5 [%]	15.0	
2024/7/17	20.8	56	1750	38.97	40.07	-2.75	1.35	1.37	-1.46	+/- 5 [%]	15.0	SPC
2024/7/17	20.8	56	1850	38.78	40.00	-3.05	1.41	1.40	0.71	+/- 5 [%]	15.0	
2024/7/17	20.8	56	1800	38.90	40.00	-2.75	1.38	1.40	-1.43	+/- 5 [%]	15.0	
2024/7/17	20.8	56	1900	38.70	40.00	-3.25	1.44	1.40	2.86	+/- 5 [%]	15.0	SPC
2024/7/17	20.8	56	1950	38.65	40.00	-3.38	1.46	1.40	4.29	+/- 5 [%]	15.0	
2024/7/17	20	56	3450	37.16	37.96	-2.11	2.86	2.86	0.00	+/- 5 [%]	15.0	
2024/7/17	20	56	3500	37.07	37.90	-2.19	2.90	2.91	-0.34	+/- 5 [%]	15.0	SPC
2024/7/17	20	56	3600	36.96	37.80	-2.22	2.99	3.01	-0.66	+/- 5 [%]	15.0	
2024/7/17	20	56	3700	36.81	37.70	-2.36	3.07	3.12	-1.60	+/- 5 [%]	15.0	SPC
2024/7/17	20	56	3800	36.68	37.60	-2.45	3.16	3.22	-1.86	+/- 5 [%]	15.0	
2024/7/17	20	56	3900	36.58	37.50	-2.45	3.24	3.33	-2.70	+/- 5 [%]	15.0	SPC
2024/7/17	20	56	4000	36.40	37.40	-2.67	3.34	3.43	-2.62	+/- 5 [%]	15.0	
2024/7/18	21	55	1650	40.48	40.21	0.67	1.28	1.31	-2.29	+/- 5 [%]	15.0	
2024/7/18	21	55	1750	40.38	40.07	0.77	1.34	1.37	-2.19	+/- 5 [%]	15.0	SPC
2024/7/18	21	55	1850	40.33	40.00	0.83	1.42	1.40	1.43	+/- 5 [%]	15.0	
2024/7/18	21	55	1900	40.20	40.00	0.50	1.47	1.40	5.00	+/- 5 [%]	15.0	SPC
2024/7/18	21	55	1915	40.15	40.00	0.38	1.48	1.40	5.71	+/- 10 [%]	15.0	
2024/7/19	20.5	55	1650	42.10	40.21	4.70	1.29	1.31	-1.53	+/- 5 [%]	15.0	
2024/7/19	20.5	55	1750	41.92	40.07	4.62	1.35	1.37	-1.46	+/- 5 [%]	15.0	SPC
2024/7/19	20.5	55	1850	41.81	40.00	4.53	1.42	1.40	1.43	+/- 5 [%]	15.0	
2024/7/19	20.5	55	1900	41.74	40.00	4.35	1.46	1.40	4.29	+/- 5 [%]	15.0	SPC
2024/7/19	20.5	55	1915	41.71	40.00	4.28	1.47	1.40	5.00	+/- 5 [%]	15.0	
2024/7/19	21	56	3450	38.68	37.96	1.90	2.92	2.86	2.10	+/- 5 [%]	15.0	
2024/7/19	21	56	3500	38.59	37.90	1.82	2.96	2.91	1.72	+/- 5 [%]	15.0	SPC
2024/7/19	21	56	3600	38.48	37.80	1.80	3.05	3.01	1.33	+/- 5 [%]	15.0	
2024/7/19	21	56	3700	38.33	37.70	1.67	3.13	3.12	0.32	+/- 5 [%]	15.0	SPC
2024/7/19	21	56	3800	38.21	37.60	1.62	3.22	3.22	0.00	+/- 5 [%]	15.0	
2024/7/22	21	60	1650	40.99	40.21	1.95	1.29	1.31	-2.06	+/- 5 [%]	15.0	
2024/7/22	21	60	1750	40.83	40.07	1.89	1.35	1.37	-1.70	+/- 5 [%]	15.0	SPC
2024/7/22	21	60	1850	40.62	40.00	1.54	1.41	1.40	0.75	+/- 5 [%]	15.0	
2024/7/22	21	60	1900	40.55	40.00	1.38	1.44	1.40	3.05	+/- 5 [%]	15.0	SPC
2024/7/22	21	60	1915	40.54	40.00	1.35	1.45	1.40	3.67	+/- 5 [%]	15.0	
2024/7/22	21	61	3400	38.12	37.96	0.42	2.92	2.86	2.10	+/- 5 [%]	15.0	
2024/7/22	21	61	3500	38.02	37.90	0.32	2.96	2.91	1.72	+/- 5 [%]	15.0	SPC
2024/7/22	21	61	3600	37.90	37.80	0.26	3.04	3.01	1.00	+/- 5 [%]	15.0	
2024/7/22	21	61	3700	37.71	37.70	0.03	3.13	3.12	0.32	+/- 5 [%]	15.0	SPC
2024/7/22	21	52	800	43.52	41.66	4.46	0.93	0.90	3.33	+/- 5 [%]	15.0	
2024/7/22	21	52	900	43.07	41.50	3.78	0.97	0.97	0.00	+/- 5 [%]	15.0	SPC
2024/7/22	21	52	1000	42.95	41.32	3.94	1.01	1.01	0.00	+/- 5 [%]	15.0	
2024/7/22	21	61	3800	37.55	37.60	-0.13	3.22	3.22	0.00	+/- 5 [%]	15.0	
2024/7/22	21	61	3900	37.45	37.50	-0.13	3.30	3.33	-0.90	+/- 5 [%]	15.0	SPC
2024/7/22	21	61	4000	37.32	37.40	-0.21	3.39	3.43	-1.17	+/- 5 [%]	15.0	
2024/7/23	21.5	50	800	43.77	41.66	5.06	0.93	0.90	4.36	+/- 10 [%]	15.0	
2024/7/23	21.5	50	900	43.43	41.50	4.65	0.98	0.97	0.57	+/- 5 [%]	15.0	SPC
2024/7/23	21.5	50	1000	43.23	41.32	4.64	1.02	1.01	0.43	+/- 5 [%]	15.0	
2024/7/23	21	41	3400	38.70	37.96	1.95	2.91	2.86	1.75	+/- 5 [%]	15.0	
2024/7/23	21	41	3500	38.59	37.90	1.82	2.96	2.91	1.72	+/- 5 [%]	15.0	SPC
2024/7/23	21	41	3600	38.46	37.80	1.75	3.05	3.01	1.33	+/- 5 [%]	15.0	
2024/7/23	21	41	3700	38.32	37.70	1.64	3.13	3.12	0.32	+/- 5 [%]	15.0	SPC
2024/7/23	21	41	3800	38.25	37.60	1.73	3.23	3.22	0.31	+/- 5 [%]	15.0	
2024/7/23	21	41	3900	38.19	37.50	1.84	3.32	3.33	-0.30	+/- 5 [%]	15.0	SPC
2024/7/23	21	41	4000	38.03	37.40	1.68	3.42	3.43	-0.29	+/- 5 [%]	15.0	

Continued

2024/7/24	21	62	1650	40.31	40.21	0.25	1.30	1.31	-0.76	+/- 5 [%]	15.0	
2024/7/24	21	62	1750	40.15	40.07	0.20	1.35	1.37	-1.46	+/- 5 [%]	15.0	SPC
2024/7/24	21	62	1850	39.93	40.00	-0.17	1.42	1.40	1.43	+/- 5 [%]	15.0	
2024/7/24	21	62	1900	39.87	40.00	-0.33	1.45	1.40	3.57	+/- 5 [%]	15.0	SPC
2024/7/24	21	62	1915	39.87	40.00	-0.33	1.45	1.40	3.57	+/- 5 [%]	15.0	
2024/7/24	21	45	2500	37.95	39.13	-3.02	1.74	1.85	-5.95	+/- 10 [%]	15.0	
2024/7/24	21	45	2600	37.74	39.00	-3.23	1.80	1.96	-8.16	+/- 10 [%]	15.0	SPC
2024/7/24	21	45	2700	37.63	38.88	-3.22	1.88	2.07	-9.18	+/- 10 [%]	15.0	
2024/7/25	21	45	650	42.25	42.43	-0.43	0.87	0.88	-1.12	+/- 5 [%]	15.0	
2024/7/25	21	45	750	41.89	41.90	-0.02	0.90	0.89	1.63	+/- 5 [%]	15.0	SPC
2024/7/25	21	45	800	41.69	41.66	0.06	0.92	0.90	2.97	+/- 5 [%]	15.0	
2024/7/25	21	45	850	41.52	41.50	0.05	0.94	0.92	2.70	+/- 5 [%]	15.0	
2024/7/25	21	45	900	41.37	41.50	-0.31	0.96	0.97	-0.98	+/- 5 [%]	15.0	SPC
2024/7/25	21	45	1000	41.12	41.32	-0.47	1.00	1.01	-1.06	+/- 5 [%]	15.0	
2024/7/25	20	50	2500	39.68	39.13	1.41	1.92	1.85	3.78	+/- 5 [%]	15.0	
2024/7/25	20	50	2600	39.44	39.00	1.13	2.00	1.96	2.04	+/- 5 [%]	15.0	SPC
2024/7/25	20	50	2700	39.29	38.88	1.05	2.08	2.07	0.48	+/- 5 [%]	15.0	
2024/7/26	21	44	650	44.30	42.43	4.41	0.85	0.88	-3.71	+/- 5 [%]	15.0	
2024/7/26	21	44	750	43.90	41.90	4.78	0.89	0.89	-0.36	+/- 5 [%]	15.0	SPC
2024/7/26	21	44	850	43.52	41.50	4.86	0.93	0.92	1.43	+/- 5 [%]	15.0	
2024/7/26	20	53	2500	39.83	39.13	1.79	1.89	1.85	2.16	+/- 5 [%]	15.0	
2024/7/26	20	53	2600	39.63	39.00	1.62	1.97	1.96	0.51	+/- 5 [%]	15.0	SPC
2024/7/26	20	53	2700	39.46	38.88	1.49	2.05	2.07	-0.97	+/- 5 [%]	15.0	
2024/7/28	21	41	650	42.27	42.43	-0.38	0.87	0.88	-1.26	+/- 5 [%]	15.0	
2024/7/28	21	41	750	41.91	41.90	0.02	0.91	0.89	1.77	+/- 5 [%]	15.0	SPC
2024/7/28	21	41	800	41.72	41.66	0.13	0.92	0.90	3.08	+/- 5 [%]	15.0	
2024/7/28	21	41	850	41.55	41.50	0.11	0.94	0.92	2.87	+/- 5 [%]	15.0	
2024/7/28	21	41	900	41.41	41.50	-0.21	0.96	0.97	-0.88	+/- 5 [%]	15.0	SPC
2024/7/28	21	41	1000	41.15	41.32	-0.42	1.00	1.01	-0.92	+/- 5 [%]	15.0	
2024/7/30	20	53	650	42.46	42.43	0.07	0.86	0.88	-2.27	+/- 5 [%]	15.0	
2024/7/30	20	53	750	42.11	41.90	0.50	0.89	0.89	0.00	+/- 5 [%]	15.0	SPC
2024/7/30	20	53	850	41.82	41.50	0.77	0.93	0.92	1.09	+/- 5 [%]	15.0	
2024/7/30	20	53	800	41.95	41.66	0.70	0.91	0.90	1.11	+/- 5 [%]	15.0	
2024/7/30	20	53	900	41.66	41.50	0.39	0.94	0.97	-3.09	+/- 5 [%]	15.0	SPC
2024/7/30	20	53	1000	41.41	41.32	0.22	0.98	1.01	-2.97	+/- 5 [%]	15.0	
2024/7/30	20	53	1650	40.02	40.21	-0.47	1.28	1.31	-2.29	+/- 5 [%]	15.0	
2024/7/30	20	53	1750	39.78	40.07	-0.72	1.34	1.37	-2.19	+/- 5 [%]	15.0	SPC
2024/7/30	20	53	1850	39.57	40.00	-1.08	1.39	1.40	-0.71	+/- 5 [%]	15.0	
2024/7/31	20	41	650	44.07	42.43	3.87	0.83	0.88	-5.68	+/- 10 [%]	15.0	
2024/7/31	20	41	750	43.70	41.90	4.30	0.87	0.89	-2.25	+/- 5 [%]	15.0	SPC
2024/7/31	20	41	800	43.64	41.66	4.75	0.88	0.90	-2.22	+/- 5 [%]	15.0	
2024/7/31	20	41	850	43.61	41.50	5.08	0.90	0.92	-2.17	+/- 10 [%]	15.0	
2024/7/31	20	41	900	43.55	41.50	4.94	0.92	0.97	-5.15	+/- 10 [%]	15.0	SPC
2024/7/31	20	41	1000	43.30	41.32	4.79	0.96	1.01	-4.95	+/- 5 [%]	15.0	
2024/7/31	20	41	1650	42.15	40.21	4.82	1.29	1.31	-1.53	+/- 5 [%]	15.0	
2024/7/31	20	41	1750	41.99	40.07	4.79	1.35	1.37	-1.46	+/- 5 [%]	15.0	SPC
2024/7/31	20	41	1850	41.74	40.00	4.35	1.41	1.40	0.71	+/- 5 [%]	15.0	

Continued

2024/8/1	20	50	650	42.75	42.43	0.75	0.86	0.88	-2.27	+/- 5 [%]	15.0	
2024/8/1	20	50	750	42.51	41.90	1.46	0.90	0.89	1.12	+/- 5 [%]	15.0	SPC
2024/8/1	20	50	800	42.34	41.66	1.63	0.92	0.90	2.22	+/- 5 [%]	15.0	
2024/8/1	20	50	850	42.18	41.50	1.64	0.94	0.92	2.17	+/- 5 [%]	15.0	
2024/8/1	20	50	900	42.03	41.50	1.28	0.96	0.97	-1.03	+/- 5 [%]	15.0	SPC
2024/8/1	20	50	1000	41.77	41.32	1.09	1.00	1.01	-0.99	+/- 5 [%]	15.0	
2024/8/1	20	50	1650	40.44	40.21	0.57	1.32	1.31	0.76	+/- 5 [%]	15.0	
2024/8/1	20	50	1750	40.37	40.07	0.75	1.38	1.37	0.73	+/- 5 [%]	15.0	SPC
2024/8/1	20	50	1850	40.20	40.00	0.50	1.43	1.40	2.14	+/- 5 [%]	15.0	
2024/8/2	21	43	650	41.79	42.43	-1.51	0.85	0.88	-4.09	+/- 5 [%]	15.0	
2024/8/2	21	43	750	41.63	41.90	-0.64	0.88	0.89	-0.79	+/- 5 [%]	15.0	SPC
2024/8/2	21	43	800	41.61	41.66	-0.14	0.90	0.90	0.93	+/- 5 [%]	15.0	
2024/8/2	21	43	850	41.52	41.50	0.04	0.93	0.92	1.22	+/- 5 [%]	15.0	
2024/8/2	21	43	900	41.50	41.50	-0.01	0.95	0.97	-1.61	+/- 5 [%]	15.0	SPC
2024/8/2	21	43	1000	41.24	41.32	-0.20	0.99	1.01	-2.01	+/- 5 [%]	15.0	
2024/8/2	21	43	1650	39.52	40.21	-1.72	1.33	1.31	1.56	+/- 5 [%]	15.0	
2024/8/2	21	43	1750	39.40	40.07	-1.69	1.36	1.37	-0.88	+/- 5 [%]	15.0	SPC
2024/8/2	21	43	1850	39.50	40.00	-1.25	1.39	1.40	-0.47	+/- 5 [%]	15.0	
2024/8/4	21	38	800	42.14	41.66	1.14	0.91	0.90	1.38	+/- 5 [%]	15.0	
2024/8/4	21	38	900	41.85	41.50	0.85	0.94	0.97	-2.61	+/- 5 [%]	15.0	SPC
2024/8/4	21	38	1000	41.63	41.32	0.75	0.99	1.01	-2.36	+/- 5 [%]	15.0	
2024/8/4	21	38	1650	40.39	40.21	0.45	1.31	1.31	-0.34	+/- 5 [%]	15.0	
2024/8/4	21	38	1750	40.23	40.07	0.40	1.37	1.37	-0.28	+/- 5 [%]	15.0	SPC
2024/8/4	21	38	1850	40.11	40.00	0.27	1.43	1.40	1.97	+/- 5 [%]	15.0	
2024/8/5	20.5	49	3400	36.77	38.02	-3.29	2.61	2.81	-7.12	+/- 10 [%]	15.0	
2024/8/5	20.5	49	3500	36.63	37.90	-3.35	2.71	2.91	-6.87	+/- 10 [%]	15.0	SPC
2024/8/5	20.5	49	3600	36.40	37.80	-3.70	2.78	3.01	-7.64	+/- 10 [%]	15.0	
2024/8/5	20.5	49	3700	36.30	37.70	-3.71	2.86	3.12	-8.33	+/- 10 [%]	15.0	SPC
2024/8/5	20.5	49	3800	36.04	37.60	-4.15	2.95	3.22	-8.39	+/- 10 [%]	15.0	
2024/8/5	20.5	49	3900	35.93	37.50	-4.19	3.04	3.33	-8.71	+/- 10 [%]	15.0	SPC
2024/8/5	20.5	49	4000	35.74	37.40	-4.44	3.14	3.43	-8.45	+/- 10 [%]	15.0	
2024/8/5	20.5	49	1800	39.63	40.00	-0.92	1.38	1.40	-1.75	+/- 5 [%]	15.0	
2024/8/5	20.5	49	1900	39.48	40.00	-1.29	1.43	1.40	1.87	+/- 5 [%]	15.0	SPC
2024/8/5	20.5	49	1915	39.47	40.00	-1.33	1.44	1.40	2.55	+/- 5 [%]	15.0	
2024/8/6	20	51	3400	39.78	38.02	4.63	2.72	2.81	-3.20	+/- 5 [%]	15.0	
2024/8/6	20	51	3500	39.60	37.90	4.49	2.81	2.91	-3.44	+/- 5 [%]	15.0	SPC
2024/8/6	20	51	3600	39.42	37.80	4.29	2.91	3.01	-3.32	+/- 5 [%]	15.0	
2024/8/6	20	51	3700	39.25	37.70	4.11	3.00	3.12	-3.85	+/- 5 [%]	15.0	SPC
2024/8/6	20	51	3800	39.09	37.60	3.96	3.10	3.22	-3.73	+/- 5 [%]	15.0	
2024/8/6	20	51	3900	38.92	37.50	3.79	3.20	3.33	-3.90	+/- 5 [%]	15.0	SPC
2024/8/6	20	51	4000	38.75	37.40	3.61	3.30	3.43	-3.79	+/- 5 [%]	15.0	
2024/8/7	20	50	3400	37.57	38.02	-1.18	2.69	2.81	-4.27	+/- 5 [%]	15.0	
2024/8/7	20	50	3500	37.38	37.90	-1.37	2.78	2.91	-4.47	+/- 5 [%]	15.0	SPC
2024/8/7	20	50	3600	37.22	37.80	-1.53	2.88	3.01	-4.32	+/- 5 [%]	15.0	
2024/8/7	20	50	3700	37.03	37.70	-1.78	2.97	3.12	-4.81	+/- 5 [%]	15.0	SPC
2024/8/7	20	50	3800	36.83	37.60	-2.05	3.08	3.22	-4.35	+/- 5 [%]	15.0	
2024/8/7	20	50	3900	36.66	37.50	-2.24	3.19	3.33	-4.20	+/- 5 [%]	15.0	SPC
2024/8/7	20	50	4000	36.48	37.40	-2.46	3.29	3.43	-4.08	+/- 5 [%]	15.0	
2024/8/8	20	50	2500	39.32	39.13	0.48	1.89	1.85	1.71	+/- 5 [%]	15.0	
2024/8/8	20	50	2600	39.11	39.00	0.29	1.97	1.96	0.30	+/- 5 [%]	15.0	SPC
2024/8/8	20	50	2700	38.93	38.88	0.15	2.05	2.07	-0.85	+/- 5 [%]	15.0	
2024/8/8	20	51	1650	39.88	40.21	-0.82	1.30	1.31	-0.76	+/- 5 [%]	15.0	
2024/8/8	20	51	1750	39.68	40.07	-0.97	1.36	1.37	-0.73	+/- 5 [%]	15.0	SPC
2024/8/8	20	51	1850	39.52	40.00	-1.20	1.41	1.40	0.71	+/- 5 [%]	15.0	
2024/8/8	20	51	1900	39.45	40.00	-1.37	1.44	1.40	2.86	+/- 5 [%]	15.0	SPC
2024/8/8	20	51	1915	39.43	40.00	-1.43	1.45	1.40	3.57	+/- 5 [%]	15.0	
2024/8/8	20	50	650	42.10	42.43	-0.78	0.85	0.88	-3.41	+/- 5 [%]	15.0	
2024/8/8	20	50	750	42.14	41.90	0.57	0.88	0.89	-1.12	+/- 5 [%]	15.0	SPC
2024/8/8	20	50	800	41.89	41.66	0.55	0.91	0.90	1.11	+/- 5 [%]	15.0	
2024/8/8	20	50	850	41.63	41.50	0.31	0.93	0.92	1.09	+/- 5 [%]	15.0	
2024/8/8	20	50	900	41.80	41.50	0.72	0.95	0.97	-2.06	+/- 5 [%]	15.0	SPC
2024/8/8	20	50	1000	41.27	41.32	-0.12	1.00	1.01	-0.99	+/- 5 [%]	15.0	

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2024/8/13	20	50	1650	39.89	40.21	-0.81	1.28	1.31	-2.91	+/- 5 [%]	15.0	
2024/8/13	20	50	1750	39.71	40.07	-0.91	1.33	1.37	-2.68	+/- 5 [%]	15.0	SPC
2024/8/13	20	50	1850	39.55	40.00	-1.13	1.40	1.40	-0.34	+/- 5 [%]	15.0	
2024/8/19	20	54	700	41.72	42.17	-1.07	0.84	0.89	-5.62	+/- 10 [%]	15.0	
2024/8/19	20	54	750	41.60	41.90	-0.72	0.86	0.89	-3.37	+/- 5 [%]	15.0	SPC
2024/8/19	20	54	850	41.36	41.50	-0.34	0.90	0.92	-2.17	+/- 5 [%]	15.0	
2024/8/19	20	54	900	41.23	41.50	-0.65	0.92	0.97	-5.15	+/- 10 [%]	15.0	SPC
2024/8/19	20	54	1000	40.95	41.32	-0.90	0.96	1.01	-4.95	+/- 5 [%]	15.0	
2024/8/19	20	54	1650	39.57	40.21	-1.59	1.29	1.31	-1.53	+/- 5 [%]	15.0	
2024/8/19	20	54	1750	39.39	40.07	-1.70	1.35	1.37	-1.46	+/- 5 [%]	15.0	SPC
2024/8/19	20	54	1850	39.22	40.00	-1.95	1.41	1.40	0.71	+/- 5 [%]	15.0	
2024/8/19	20	54	1900	39.14	40.00	-2.15	1.44	1.40	2.86	+/- 5 [%]	15.0	SPC
2024/8/19	20	54	1905	39.13	40.00	-2.17	1.44	1.40	2.86	+/- 5 [%]	15.0	
2024/8/19	20	54	1800	40.45	40.00	1.13	1.37	1.40	-2.14	+/- 5 [%]	15.0	
2024/8/19	20	54	1900	40.32	40.00	0.80	1.44	1.40	2.86	+/- 5 [%]	15.0	SPC
2024/8/19	20	54	1905	40.32	40.00	0.80	1.44	1.40	2.86	+/- 5 [%]	15.0	
2024/8/20	21.4	55	2500	39.33	39.13	0.51	1.88	1.85	1.62	+/- 5 [%]	15.0	
2024/8/20	21.4	55	2600	39.16	39.00	0.41	1.96	1.96	0.00	+/- 5 [%]	15.0	SPC
2024/8/20	21.4	55	2700	38.98	38.88	0.26	2.05	2.07	-0.97	+/- 5 [%]	15.0	
2024/8/20	21.4	55	3400	37.66	38.02	-0.95	2.66	2.81	-5.34	+/- 10 [%]	15.0	
2024/8/20	21.4	55	3500	37.48	37.90	-1.11	2.75	2.91	-5.50	+/- 10 [%]	15.0	SPC
2024/8/20	21.4	55	3600	37.31	37.80	-1.30	2.85	3.01	-5.32	+/- 10 [%]	15.0	
2024/8/20	21.4	55	3700	37.15	37.70	-1.46	2.94	3.12	-5.77	+/- 10 [%]	15.0	SPC
2024/8/20	21.4	55	3800	36.99	37.60	-1.62	3.04	3.22	-5.59	+/- 10 [%]	15.0	
2024/8/20	21.4	55	3900	36.83	37.50	-1.79	3.14	3.33	-5.71	+/- 10 [%]	15.0	SPC
2024/8/20	21.4	55	4000	36.65	37.40	-2.01	3.24	3.43	-5.54	+/- 10 [%]	15.0	
2024/8/21	21.5	54	3600	36.75	37.80	-2.78	2.88	3.01	-4.32	+/- 5 [%]	15.0	
2024/8/21	21.5	54	3700	36.57	37.70	-3.00	2.97	3.12	-4.81	+/- 5 [%]	15.0	SPC
2024/8/21	21.5	54	3800	36.40	37.60	-3.19	3.07	3.22	-4.66	+/- 5 [%]	15.0	
2024/8/22	20.5	57	3600	36.74	37.80	-2.80	2.81	3.01	-6.64	+/- 10 [%]	15.0	
2024/8/22	20.5	57	3700	36.58	37.70	-2.97	2.90	3.12	-7.05	+/- 10 [%]	15.0	SPC
2024/8/22	20.5	57	3800	36.40	37.60	-3.19	2.99	3.22	-7.14	+/- 10 [%]	15.0	
2024/8/27	23.7	57	800	40.19	41.66	-3.53	0.92	0.90	3.19	+/- 5 [%]	15.0	
2024/8/27	23.7	57	900	39.90	41.50	-3.86	0.96	0.97	-0.91	+/- 5 [%]	15.0	SPC
2024/8/27	23.7	57	1000	39.67	41.32	-4.00	1.00	1.01	-1.35	+/- 5 [%]	15.0	
2024/8/27	23.7	57	1650	38.49	40.21	-4.29	1.29	1.31	-1.51	+/- 5 [%]	15.0	
2024/8/27	23.7	57	1750	38.37	40.07	-4.24	1.35	1.37	-1.59	+/- 5 [%]	15.0	SPC
2024/8/27	23.7	57	1850	38.25	40.00	-4.38	1.41	1.40	0.58	+/- 5 [%]	15.0	
2024/8/30	21	38	2500	38.62	39.13	-1.31	1.90	1.85	2.27	+/- 5 [%]	15.0	
2024/8/30	21	38	2600	38.44	39.00	-1.43	1.98	1.96	1.27	+/- 5 [%]	15.0	SPC
2024/8/30	21	38	2700	38.22	38.88	-1.70	2.07	2.07	-0.06	+/- 5 [%]	15.0	
2024/8/30	21	38	3400	36.83	38.02	-3.12	2.69	2.81	-4.24	+/- 5 [%]	15.0	
2024/8/30	21	38	3500	36.63	37.90	-3.36	2.79	2.91	-4.25	+/- 5 [%]	15.0	SPC
2024/8/30	21	38	3600	36.48	37.80	-3.48	2.88	3.01	-4.56	+/- 5 [%]	15.0	
2024/9/2	21	46	2500	39.92	39.13	2.01	1.87	1.85	0.86	+/- 5 [%]	15.0	
2024/9/2	21	46	2600	39.74	39.00	1.89	1.96	1.96	-0.20	+/- 5 [%]	15.0	SPC
2024/9/2	21	46	2700	39.54	38.88	1.71	2.04	2.07	-1.52	+/- 5 [%]	15.0	
2024/9/2	21	46	3400	38.17	38.02	0.40	2.68	2.81	-4.62	+/- 5 [%]	15.0	
2024/9/2	21	46	3500	37.97	37.90	0.19	2.77	2.91	-4.67	+/- 5 [%]	15.0	SPC
2024/9/2	21	46	3600	37.87	37.80	0.18	2.87	3.01	-4.61	+/- 5 [%]	15.0	
2024/9/4	21	47	2500	40.80	39.13	4.25	1.88	1.85	1.52	+/- 5 [%]	15.0	
2024/9/4	21	47	2600	40.64	39.00	4.20	1.97	1.96	0.58	+/- 5 [%]	15.0	SPC
2024/9/4	21	47	2700	40.46	38.88	4.08	2.05	2.07	-0.82	+/- 5 [%]	15.0	
2024/9/4	21	47	3400	39.12	38.02	2.91	2.68	2.81	-4.47	+/- 5 [%]	15.0	
2024/9/4	21	47	3500	38.92	37.90	2.68	2.78	2.91	-4.48	+/- 5 [%]	15.0	SPC
2024/9/4	21	47	3600	38.75	37.80	2.50	2.88	3.01	-4.58	+/- 5 [%]	15.0	
2024/9/5	20	42	2500	40.75	39.13	4.14	1.88	1.85	1.30	+/- 5 [%]	15.0	
2024/9/5	20	42	2600	40.60	39.00	4.10	1.97	1.96	0.33	+/- 5 [%]	15.0	SPC
2024/9/5	20	42	2700	40.42	38.88	3.98	2.05	2.07	-0.92	+/- 5 [%]	15.0	
2024/9/5	20	42	3400	39.09	38.02	2.82	2.69	2.81	-4.20	+/- 5 [%]	15.0	
2024/9/5	20	42	3500	38.91	37.90	2.66	2.78	2.91	-4.35	+/- 5 [%]	15.0	SPC
2024/9/5	20	42	3600	38.76	37.80	2.53	2.88	3.01	-4.50	+/- 5 [%]	15.0	

SPC: system performance check

Appendix System performance check result

Date	Freq [MHz]	Feed power [mW]	Meas val 1gSAR [W/kg]	Meas val 10gSAR [W/kg]	Norm val 1gSAR [W/kg]	Norm val 10gSAR [W/kg]	Target val 1gSAR [W/kg]	Target val 10gSAR [W/kg]	1g dev	10g dev
2024/7/17	1750	48.53	1.670	0.897	34.41	18.48	37.1	19.5	-7.24%	-5.21%
2024/7/17	1900	48.64	1.820	0.951	37.42	19.55	39.4	20.5	-5.03%	-4.62%
2024/7/17	3500	100.00	6.160	2.300	61.60	23.00	66.4	25.2	-7.23%	-8.73%
2024/7/17	3700	100.00	6.440	2.340	64.40	23.40	65.7	23.9	-1.98%	-2.09%
2024/7/17	3900	100.00	6.620	2.350	66.20	23.50	71	24.5	-6.76%	-4.08%
2024/7/18	1750	48.87	1.690	0.898	34.59	18.38	37.1	19.5	-6.78%	-5.76%
2024/7/18	1900	48.75	1.880	0.977	38.56	20.04	39.4	20.5	-2.13%	-2.24%
2024/7/19	1750	49.09	1.640	0.876	33.41	17.84	37.1	19.5	-9.95%	-8.49%
2024/7/19	1900	49.09	1.850	0.960	37.69	19.56	39.4	20.5	-4.35%	-4.60%
2024/7/19	3500	50.35	3.290	1.230	65.34	24.43	66.4	25.2	-1.59%	-3.06%
2024/7/19	3700	50.23	3.160	1.150	62.91	22.89	65.7	23.9	-4.25%	-4.21%
2024/7/22	1750	48.42	1.700	0.902	35.11	18.63	37.1	19.5	-5.36%	-4.46%
2024/7/22	1900	48.98	1.880	0.975	38.39	19.91	39.4	20.5	-2.58%	-2.89%
2024/7/22	3500	100.00	6.450	2.420	64.50	24.20	66.4	25.2	-2.86%	-3.97%
2024/7/22	3700	100.00	6.740	2.450	67.40	24.50	65.7	23.9	2.59%	2.51%
2024/7/22	900	50.12	0.538	0.349	10.74	6.96	10.9	7.02	-1.51%	-0.81%
2024/7/22	3900	100.00	6.730	2.390	67.30	23.90	71.0	24.5	-5.21%	-2.45%
2024/7/23	900	50.12	0.567	0.368	11.31	7.34	10.9	7.02	3.79%	4.60%
2024/7/23	3500	100.00	6.470	2.430	64.70	24.30	66.4	25.2	-2.56%	-3.57%
2024/7/23	3700	100.00	6.470	2.360	64.70	23.60	65.7	23.9	-1.52%	-1.26%
2024/7/23	3900	100.00	6.780	2.410	67.80	24.10	71.0	24.5	-4.51%	-1.63%
2024/7/24	1750	48.98	1.760	0.933	35.94	19.05	37.1	19.5	-3.14%	-2.31%
2024/7/24	1900	49.09	1.930	0.996	39.32	20.29	39.4	20.5	-0.22%	-1.03%
2024/7/24	2600	100.00	5.580	2.520	55.80	25.20	56.6	25.1	-1.41%	0.40%
2024/7/25	750	50.12	0.438	0.287	8.74	5.73	8.76	5.67	-0.24%	0.99%
2024/7/25	900	50.12	0.547	0.355	10.91	7.08	10.9	7.02	0.13%	0.90%
2024/7/25	2600	50.12	2.640	1.170	52.68	23.35	56.6	25.1	-6.93%	-6.99%
2024/7/26	750	50.12	0.434	0.286	8.72	5.71	8.76	5.67	-0.47%	0.63%
2024/7/26	2600	50.12	2.610	1.180	52.08	23.54	56.6	25.1	-7.99%	-6.20%
2024/7/28	750	250.03	2.120	1.390	8.48	5.56	8.76	5.67	-3.21%	-1.96%
2024/7/28	900	250.03	2.710	1.750	10.84	7.00	10.9	7.02	-0.56%	-0.30%
2024/7/30	750	250.03	2.120	1.390	8.48	5.56	8.76	5.67	-3.21%	-1.96%
2024/7/30	900	250.03	2.690	1.740	10.76	6.96	10.9	7.02	-1.29%	-0.87%
2024/7/30	1750	49.20	1.670	0.887	33.94	18.03	37.1	19.5	-8.52%	-7.55%
2024/7/31	750	49.43	0.425	0.280	8.60	5.66	8.76	5.67	-1.85%	-0.11%
2024/7/31	900	49.89	0.549	0.353	11.01	7.08	10.9	7.02	0.96%	0.80%
2024/7/31	1750	48.75	1.730	0.924	35.49	18.95	37.1	19.5	-4.35%	-2.81%
2024/8/1	750	49.55	0.447	0.293	9.02	5.91	8.76	5.67	2.99%	4.30%
2024/8/1	900	49.77	0.552	0.356	11.09	7.15	10.9	7.02	1.74%	1.88%
2024/8/1	1750	49.32	1.770	0.941	35.89	19.08	37.1	19.5	-3.26%	-2.15%
2024/8/2	750	50.12	0.427	0.280	8.52	5.59	8.76	5.67	-2.74%	-1.46%
2024/8/2	900	50.12	0.551	0.354	10.99	7.06	10.9	7.02	0.86%	0.61%
2024/8/2	1750	50.12	1.780	0.943	35.52	18.82	37.1	19.5	-4.27%	-3.51%
2024/8/4	900	50.12	0.537	0.347	10.72	6.92	10.9	7.02	-1.70%	-1.37%
2024/8/4	1750	50.12	1.850	0.985	36.91	19.65	37.1	19.5	-0.51%	0.78%
2024/8/5	3500	50.47	3.310	1.260	65.59	24.97	66.4	25.2	-1.22%	-0.92%
2024/8/5	3700	51.05	3.250	1.190	63.66	23.31	65.7	23.9	-3.10%	-2.47%
2024/8/5	3900	51.05	3.520	1.250	68.95	24.49	71	24.5	-2.89%	-0.06%
2024/8/5	1900	50.12	1.920	0.995	38.31	19.85	39.4	20.5	-2.77%	-3.16%

Continued

2024/8/6	3500	50.23	3.310	1.270	65.89	25.28	66.4	25.2	-0.77%	0.33%
2024/8/6	3700	50.00	3.110	1.150	62.20	23.00	65.7	23.9	-5.33%	-3.77%
2024/8/6	3900	100.00	7.100	2.510	71.00	25.10	71	24.5	0.00%	2.45%
2024/8/7	3500	49.43	3.270	1.250	66.15	25.29	66.4	25.2	-0.37%	0.35%
2024/8/7	3700	49.66	3.210	1.180	64.64	23.76	65.7	23.9	-1.61%	-0.58%
2024/8/7	3900	100.00	7.060	2.520	70.60	25.20	71	24.5	-0.56%	2.86%
2024/8/8	2600	50.12	2.660	1.180	53.07	23.54	56.6	25.1	-6.23%	-6.20%
2024/8/8	1750	48.53	1.770	0.942	36.47	19.41	37.1	19.5	-1.69%	-0.46%
2024/8/8	1900	48.75	1.970	1.030	40.41	21.13	39.4	20.5	2.56%	3.06%
2024/8/8	750	49.77	0.423	0.279	8.50	5.61	8.76	5.67	-2.99%	-1.15%
2024/8/8	900	48.08	0.529	0.344	11.00	7.15	10.9	7.02	0.94%	1.91%
2024/8/13	1750	50.12	1.770	0.945	35.32	18.86	37.1	19.5	-4.81%	-3.31%
2024/8/19	750	48.53	0.429	0.281	8.84	5.79	8.76	5.67	0.91%	2.12%
2024/8/19	900	48.53	0.535	0.341	11.02	7.03	10.9	7.02	1.14%	0.10%
2024/8/19	1750	48.42	1.790	0.948	36.97	19.58	37.1	19.5	-0.35%	0.41%
2024/8/19	1900	48.53	1.940	1.000	39.98	20.61	39.4	20.5	1.46%	0.52%
2024/8/19	1900	48.53	1.980	1.030	40.80	21.22	39.4	20.5	3.55%	3.53%
2024/8/20	2600	49.55	2.760	1.230	55.71	24.83	56.6	25.1	-1.58%	-1.09%
2024/8/20	3500	49.32	3.380	1.280	68.54	25.95	66.4	25.2	3.22%	2.99%
2024/8/20	3700	49.66	3.260	1.180	65.65	23.76	65.7	23.9	-0.08%	-0.58%
2024/8/20	3900	50.12	3.450	1.210	68.84	24.14	71	24.5	-3.05%	-1.46%
2024/8/21	3700	49.77	3.170	1.170	63.69	23.51	65.7	23.9	-3.06%	-1.65%
2024/8/22	3700	49.66	3.130	1.150	63.03	23.16	65.7	23.9	-4.06%	-3.10%
2024/8/27	900	48.64	0.558	0.358	11.47	7.36	10.9	7.02	5.25%	4.84%
2024/8/27	1750	50.00	1.810	0.956	36.20	19.12	37.1	19.5	-2.43%	-1.95%
2024/8/30	2600	50.12	2.730	1.220	54.47	24.34	56.6	25.1	-3.76%	-3.02%
2024/8/30	3500	50.12	3.370	1.290	67.24	25.74	66.4	25.2	1.27%	2.14%
2024/9/2	2600	50.12	2.700	1.210	53.87	24.14	56.6	25.1	-4.82%	-3.81%
2024/9/2	3500	50.12	3.330	1.280	66.44	25.54	66.4	25.2	0.06%	1.35%
2024/9/4	2600	50.12	2.700	1.210	53.87	24.14	56.6	25.1	-4.82%	-3.81%
2024/9/4	3500	50.12	3.440	1.320	68.64	26.34	66.4	25.2	3.37%	4.51%
2024/9/5	2600	50.12	2.770	1.240	55.27	24.74	56.6	25.1	-2.35%	-1.43%
2024/9/5	3500	50.12	3.470	1.340	69.24	26.74	66.4	25.2	4.27%	6.10%

Appendix System performance check Plot

WWAN Band

1750.000 MHz, CW, 2024-07-17, 08:23

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	39.0	1.35

Hardware Setup

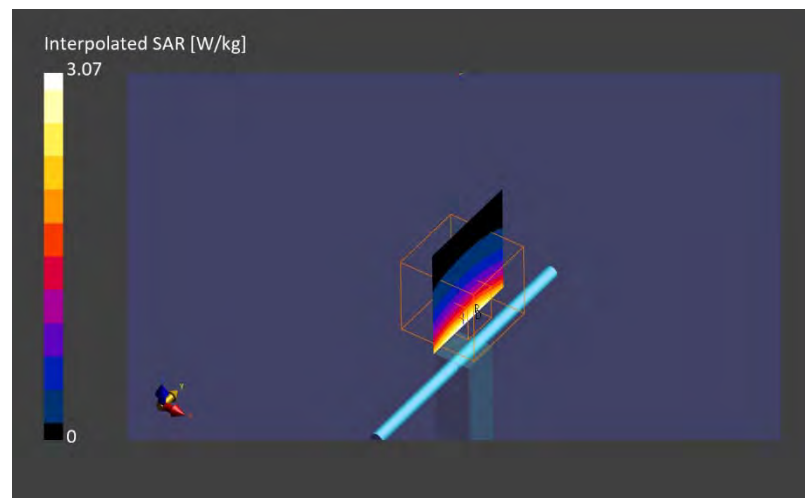
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-17	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-17, 08:17	2024-07-17, 08:23
psSAR1g [W/Kg]	1.73	1.67
psSAR10g [W/Kg]	0.927	0.897
Power Drift [dB]	-	-0.03
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.5
Dist 3dB Peak [mm]	-	10.9



1900.000 MHz, CW, 2024-07-17, 08:59

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	38.7	1.44

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-17	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-17, 08:54	2024-07-17, 08:59
psSAR1g [W/Kg]	1.88	1.82
psSAR10g [W/Kg]	0.981	0.951
Power Drift [dB]	-	-0.03
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.5
Dist 3dB Peak [mm]	-	9.7



3500.000 MHz, CW, 2024-07-17, 13:18

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.35	37.1	2.90

Hardware Setup

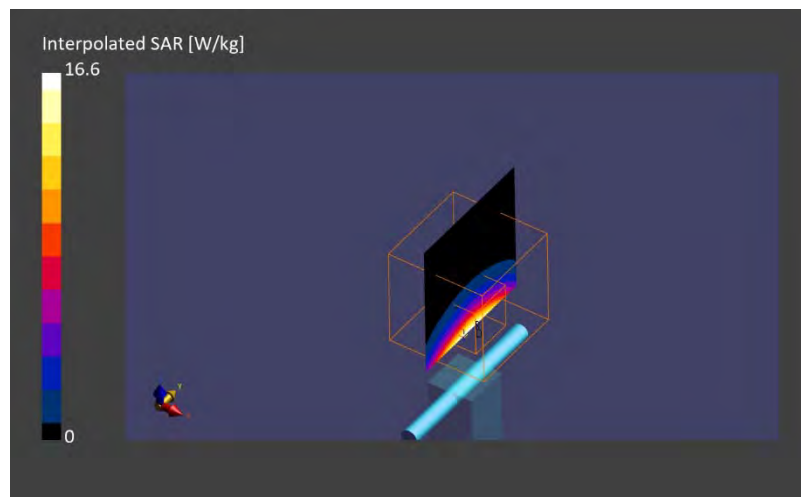
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-17	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-17, 13:11	2024-07-17, 13:18
psSAR1g [W/Kg]	6.41	6.16
psSAR10g [W/Kg]	2.43	2.30
Power Drift [dB]	-	-0.05
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.3
Dist 3dB Peak [mm]	-	9.0



3700.000 MHz, CW, 2024-07-17, 14:04

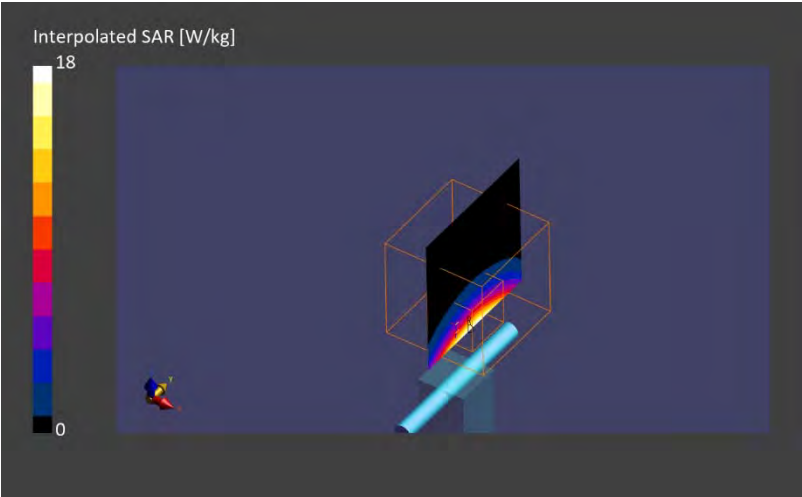
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.23	36.8	3.07

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-17	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-07-17, 13:57	2024-07-17, 14:04
psSAR1g [W/Kg]	6.67	6.44
psSAR10g [W/Kg]	2.50	2.34
Power Drift [dB]	-	-0.04
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.5
Dist 3dB Peak [mm]	-	8.1



3900.000 MHz, CW, 2024-07-17, 14:34

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.79	36.6	3.24

Hardware Setup

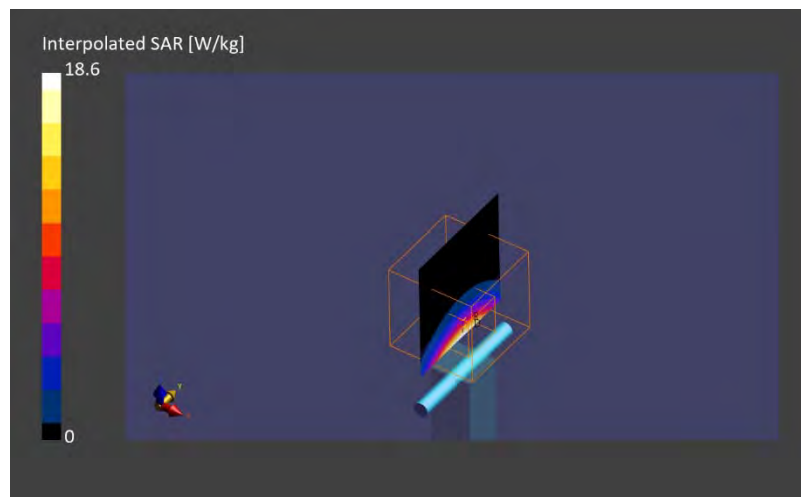
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-17	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N	N
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-17, 14:33	2024-07-17, 14:34
psSAR1g [W/Kg]	6.35	6.62
psSAR10g [W/Kg]	2.32	2.35
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	74.0
Dist 3dB Peak [mm]	-	8.1



1750.000 MHz, CW, 2024-07-18, 08:19

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	40.4	1.34

Hardware Setup

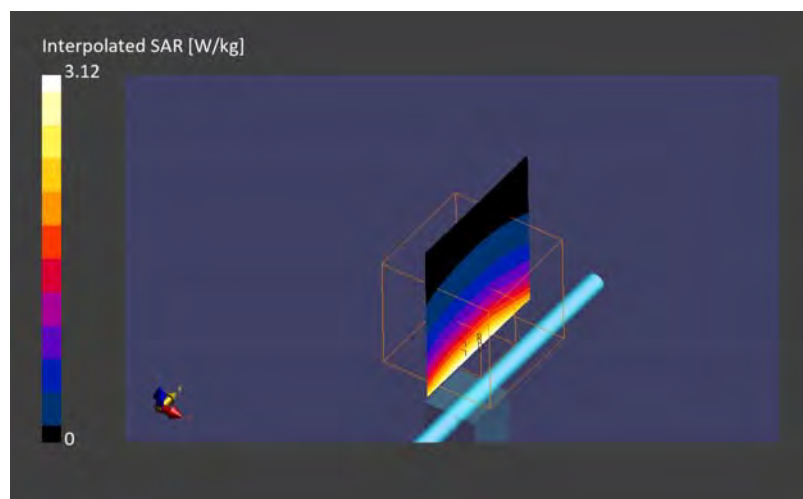
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-18	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-18, 08:13	2024-07-18, 08:19
psSAR1g [W/Kg]	1.77	1.69
psSAR10g [W/Kg]	0.948	0.898
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.3
Dist 3dB Peak [mm]	-	10.8



1900.000 MHz, CW, 2024-07-18, 08:38

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	40.2	1.47

Hardware Setup

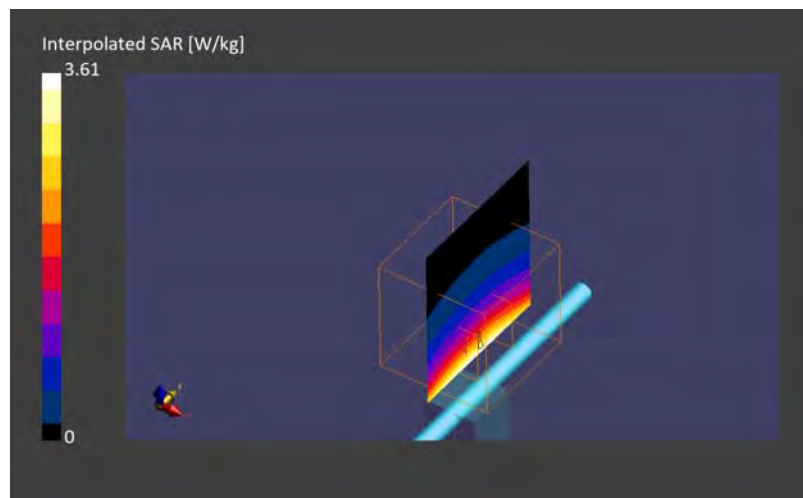
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-18	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-18, 08:32	2024-07-18, 08:38
psSAR1g [W/Kg]	1.98	1.88
psSAR10g [W/Kg]	1.03	0.977
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.9
Dist 3dB Peak [mm]	-	9.7



1750.000 MHz, CW, 2024-07-19, 07:47

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	41.9	1.35

Hardware Setup

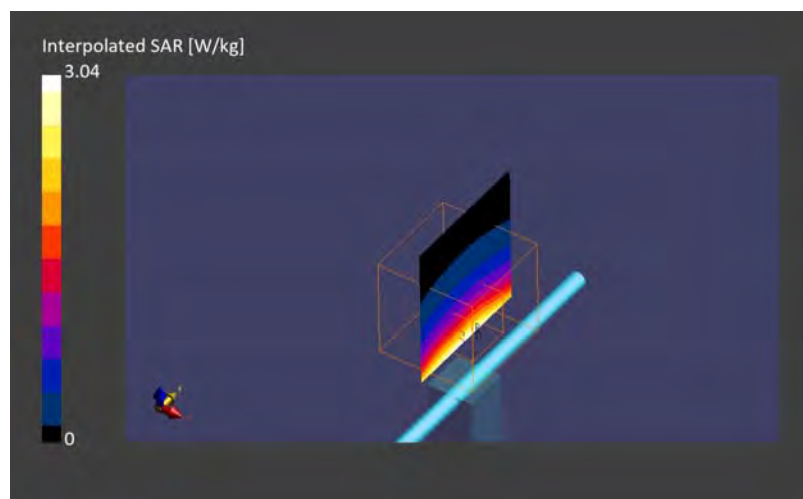
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-19, 07:41	2024-07-19, 07:47
psSAR1g [W/Kg]	1.72	1.64
psSAR10g [W/Kg]	0.915	0.876
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.2
Dist 3dB Peak [mm]	-	10.8



1900.000 MHz, CW, 2024-07-19, 08:16

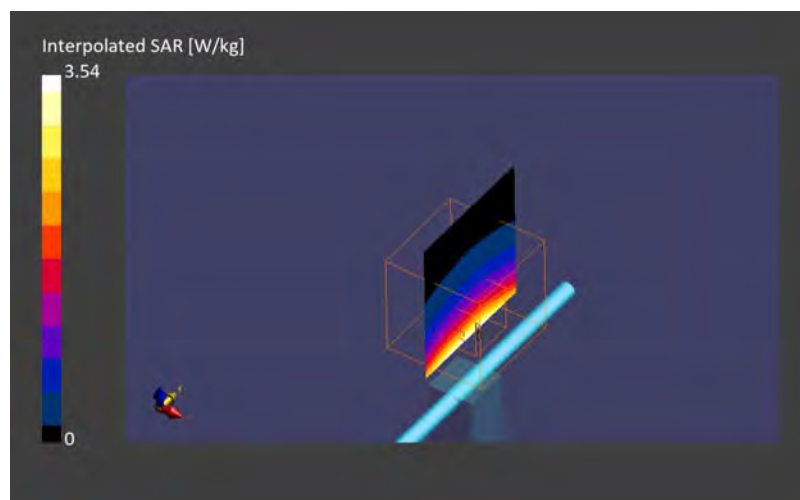
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	41.7	1.46

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-19, 08:10	2024-07-19, 08:16
psSAR1g [W/Kg]	1.93	1.85
psSAR10g [W/Kg]	0.995	0.960
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.2
Dist 3dB Peak [mm]	-	9.9



3500.000 MHz, CW, 2024-07-19, 15:51

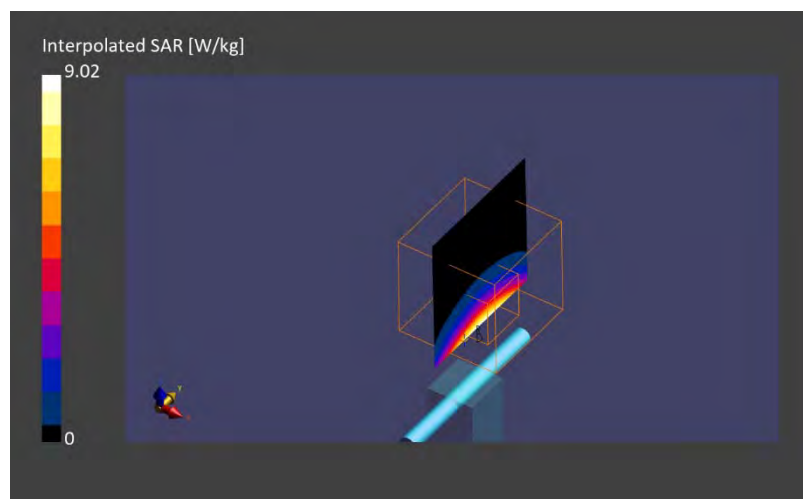
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.35	38.6	2.96

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-19	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-19, 15:44	2024-07-19, 15:51
psSAR1g [W/Kg]	3.33	3.29
psSAR10g [W/Kg]	1.28	1.23
Power Drift [dB]	-	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.9
Dist 3dB Peak [mm]	-	8.6



3700.000 MHz, CW, 2024-07-19, 16:12

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.23	38.3	3.13

Hardware Setup

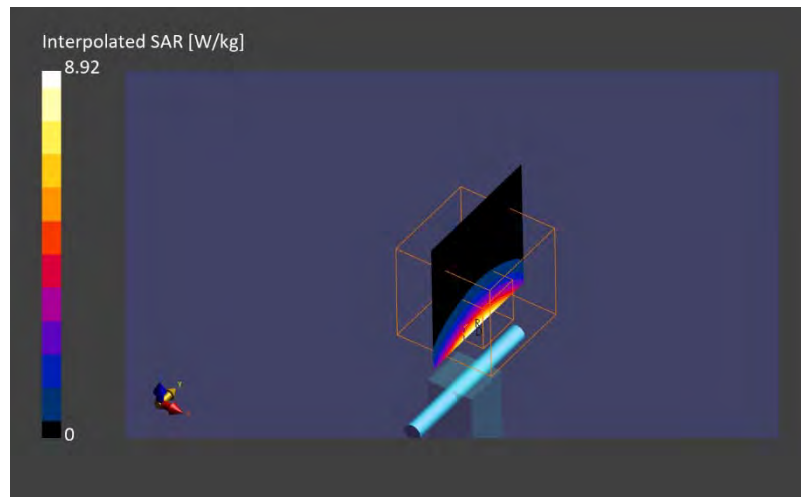
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-19	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-19, 16:05	2024-07-19, 16:12
psSAR1g [W/Kg]	3.22	3.16
psSAR10g [W/Kg]	1.20	1.15
Power Drift [dB]	-	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.8
Dist 3dB Peak [mm]	-	8.6



1750.000 MHz, CW, 2024-07-22, 08:03

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	40.8	1.35

Hardware Setup

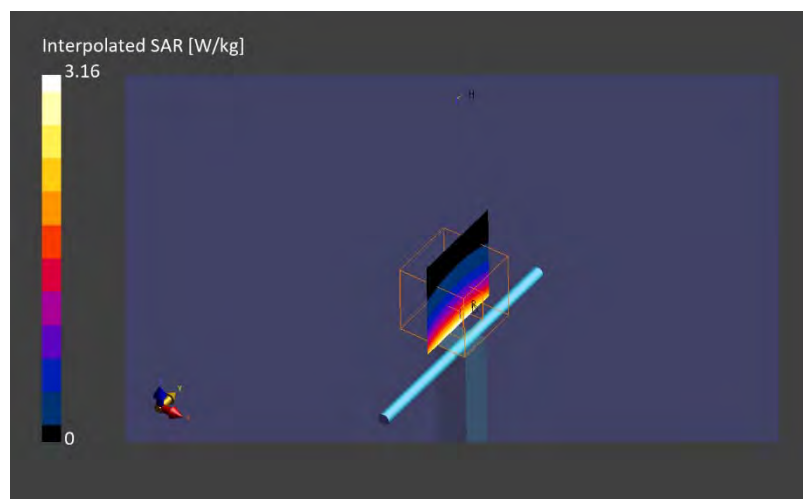
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-22, 07:57	2024-07-22, 08:03
psSAR1g [W/Kg]	1.76	1.70
psSAR10g [W/Kg]	0.949	0.902
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.3
Dist 3dB Peak [mm]	-	10.8



1900.000 MHz, CW, 2024-07-22, 08:20

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	40.6	1.44

Hardware Setup

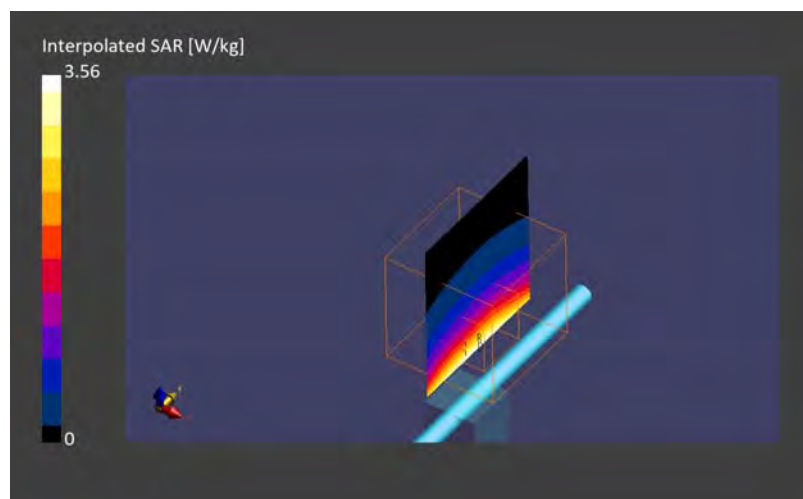
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-22, 08:15	2024-07-22, 08:20
psSAR1g [W/Kg]	1.97	1.88
psSAR10g [W/Kg]	1.03	0.975
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.4
Dist 3dB Peak [mm]	-	10.8



3500.000 MHz, CW, 2024-07-22, 10:12

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.35	38.0	2.96

Hardware Setup

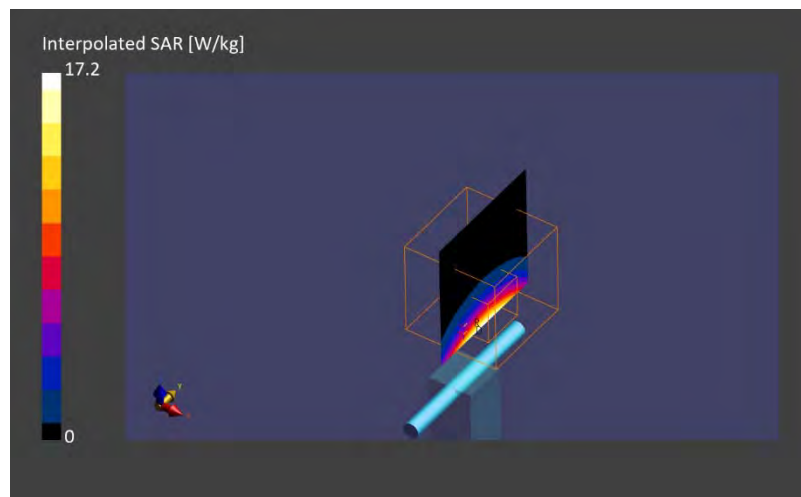
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-22	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-22, 10:05	2024-07-22, 10:12
psSAR1g [W/Kg]	6.64	6.45
psSAR10g [W/Kg]	2.59	2.42
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	78.7
Dist 3dB Peak [mm]	-	8.1



3700.000 MHz, CW, 2024-07-22, 12:04

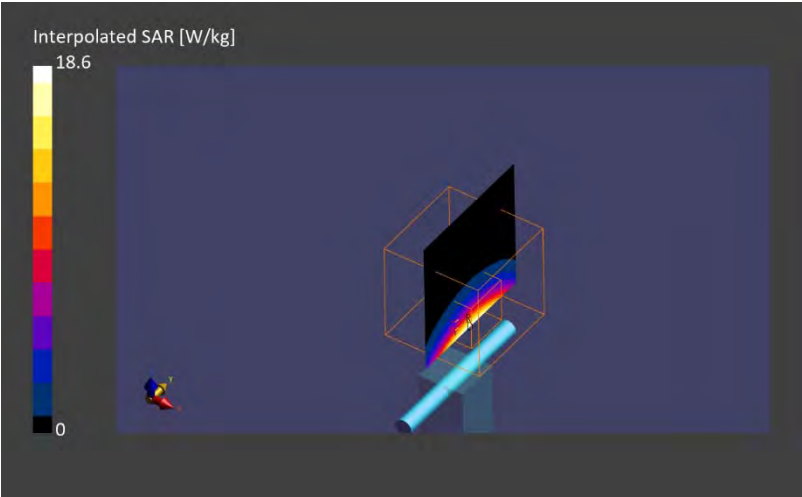
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.23	37.7	3.13

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-22	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-22, 11:58	2024-07-22, 12:04
psSAR1g [W/Kg]	6.90	6.74
psSAR10g [W/Kg]	2.57	2.45
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.7
Dist 3dB Peak [mm]	-	8.3



900.000 MHz, CW, 2024-07-22

Communication System: UID 0, _CW (0); Communication System Band: D900 (900.0 MHz); ; Duty Cycle: 1:1

Medium parameters used: $f = 900$ MHz; $\sigma = 0.969$ S/m; $\epsilon_r = 43.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(9.92, 9.92, 9.92) @ 900 MHz;

Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1372;

Phantom: ELI v5.0 TP1045 (30deg probe tilt); Type: QDOVA001BB;Serial: TP:1045

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Configuration/250mW/Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.731 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.60 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.349 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 65.3%

Maximum value of SAR (measured) = 0.728 W/kg

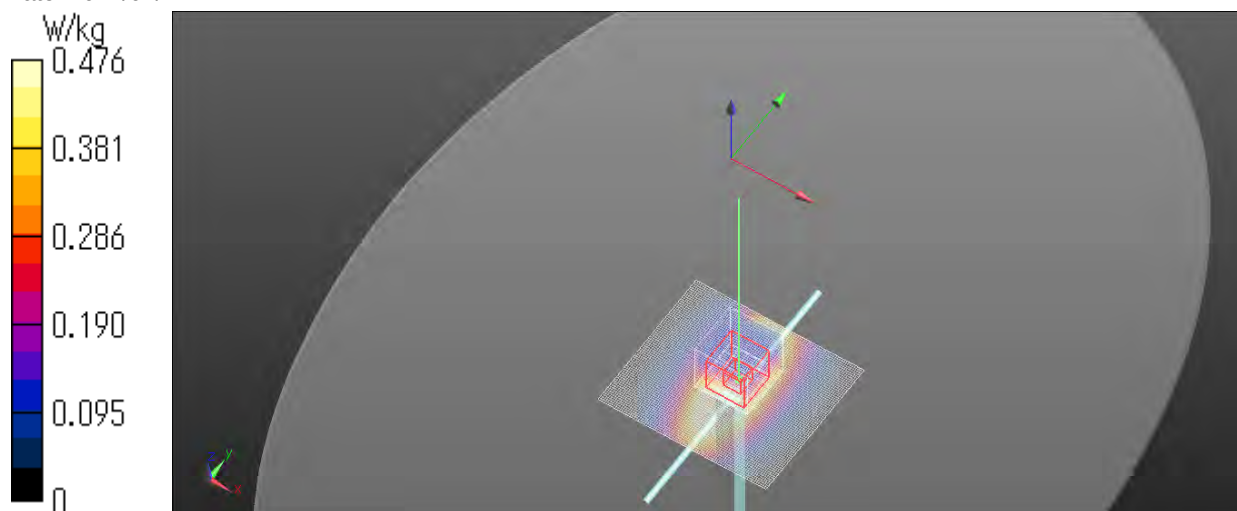
Configuration/250mW/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.476 W/kg

Ambient Temp. : 21.0 degree.C. Liquid Temp.; 21.0 degree.C.

Liquid temp. is kept within the 2 degree.C. during the test.

Date: 2024/07/22



3900.000 MHz, CW, 2024-07-22, 13:14

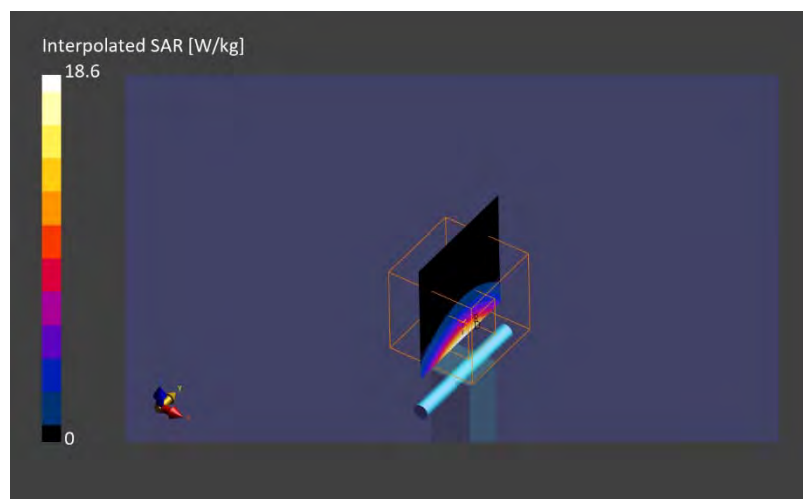
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.79	37.5	3.30

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-22	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N	N
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-22, 13:13	2024-07-22, 13:14
psSAR1g [W/Kg]	6.46	6.73
psSAR10g [W/Kg]	2.36	2.39
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	74.0
Dist 3dB Peak [mm]	-	8.1



900.000 MHz, CW, 2024-07-23

Communication System: UID 0, _CW (0); Communication System Band: D900 (900.0 MHz); ; Duty Cycle: 1:1

Medium parameters used: $f = 900$ MHz; $\sigma = 0.976$ S/m; $\epsilon_r = 43.431$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration

Probe: EX3DV4 - SN3922; ConvF(9.92, 9.92, 9.92) @ 900 MHz;

Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

Electronics: DAE4 Sn1372;

Phantom: ELI v5.0 TP1045 (30deg probe tilt); Type: QDOVA001BB;Serial: TP:1045

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Configuration/250mW/Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.772 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.22 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.368 W/kg

Smallest distance from peaks to all points 3 dB below = 15.3 mm

Ratio of SAR at M2 to SAR at M1 = 65.2%

Maximum value of SAR (measured) = 0.768 W/kg

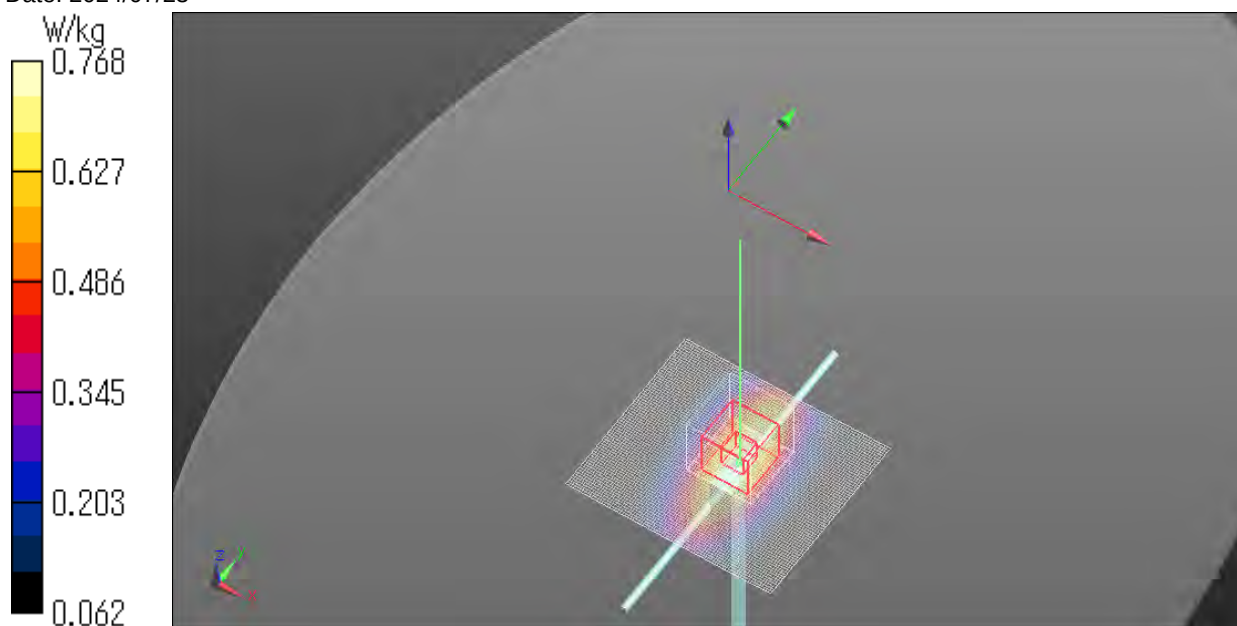
Configuration/250mW/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.501 W/kg

Ambient Temp. : 21.5 degree.C. Liquid Temp.; 21.5 degree.C.

Liquid temp. is kept within the 2 degree.C. during the test.

Date: 2024/07/23



3500.000 MHz, CW, 2024-07-23, 10:02

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.35	38.6	2.96

Hardware Setup

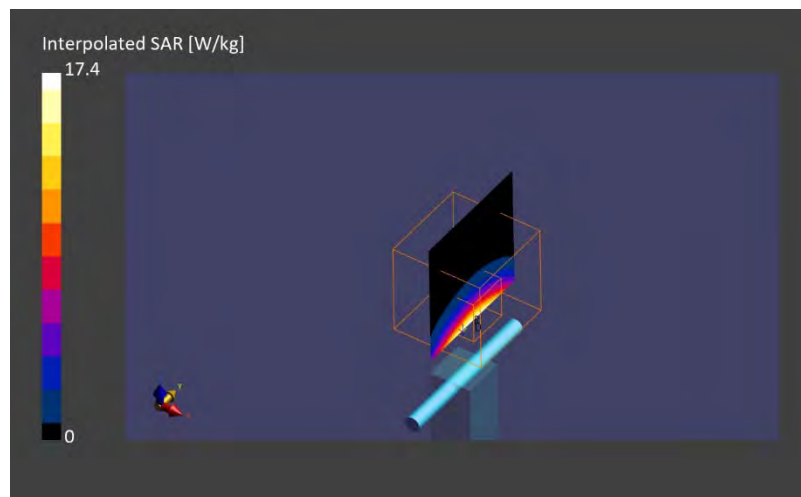
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-23	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-23, 09:55	2024-07-23, 10:02
psSAR1g [W/Kg]	6.58	6.47
psSAR10g [W/Kg]	2.50	2.43
Power Drift [dB]	-	0.04
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.0
Dist 3dB Peak [mm]	-	8.6



3700.000 MHz, CW, 2024-07-23, 10:26

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.23	38.3	3.13

Hardware Setup

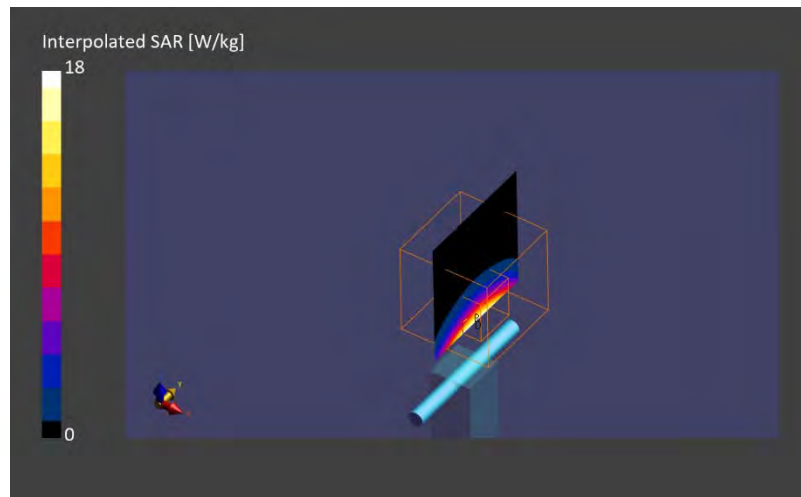
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-23	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-23, 10:19	2024-07-23, 10:26
psSAR1g [W/Kg]	6.55	6.47
psSAR10g [W/Kg]	2.42	2.36
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	76.7
Dist 3dB Peak [mm]	-	9.0



3900.000 MHz, CW, 2024-07-23, 10:44

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.79	38.2	3.32

Hardware Setup

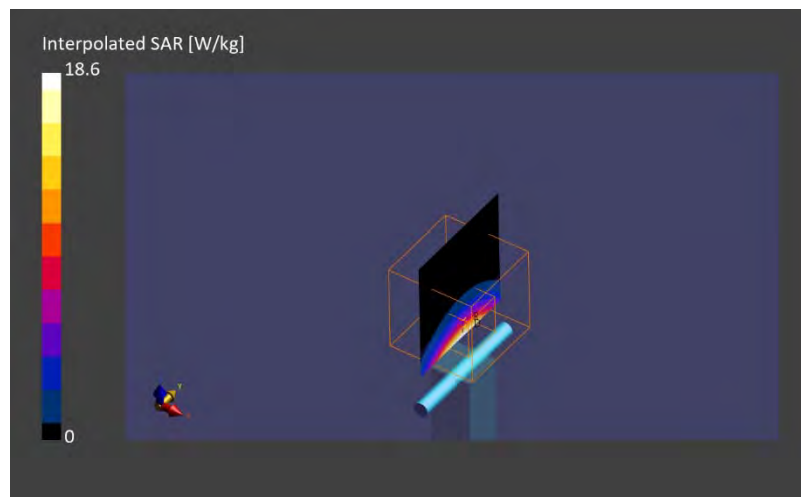
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-23	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N	N
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-23, 10:43	2024-07-23, 10:44
psSAR1g [W/Kg]	6.50	6.78
psSAR10g [W/Kg]	2.37	2.41
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	74.0
Dist 3dB Peak [mm]	-	8.1



1750.000 MHz, CW, 2024-07-24, 10:21

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	40.2	1.35

Hardware Setup

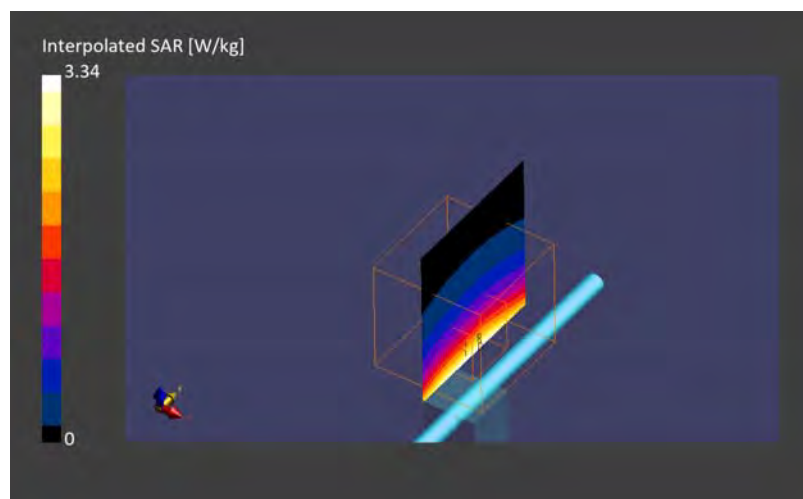
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-24, 10:15	2024-07-24, 10:21
psSAR1g [W/Kg]	1.87	1.76
psSAR10g [W/Kg]	0.998	0.933
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.9
Dist 3dB Peak [mm]	-	10.3



1900.000 MHz, CW, 2024-07-24, 10:41

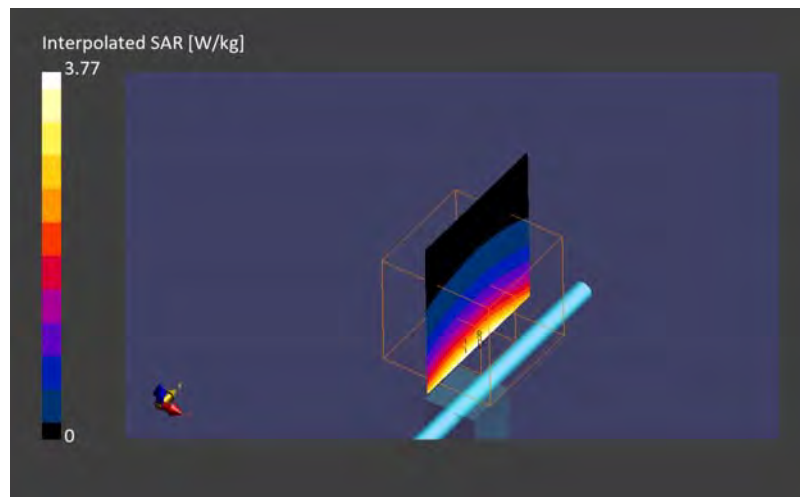
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	39.9	1.45

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-24, 10:36	2024-07-24, 10:41
psSAR1g [W/Kg]	2.01	1.93
psSAR10g [W/Kg]	1.05	0.996
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.8
Dist 3dB Peak [mm]	-	10.8



2600.000 MHz, CW, 2024-07-24, 10:55

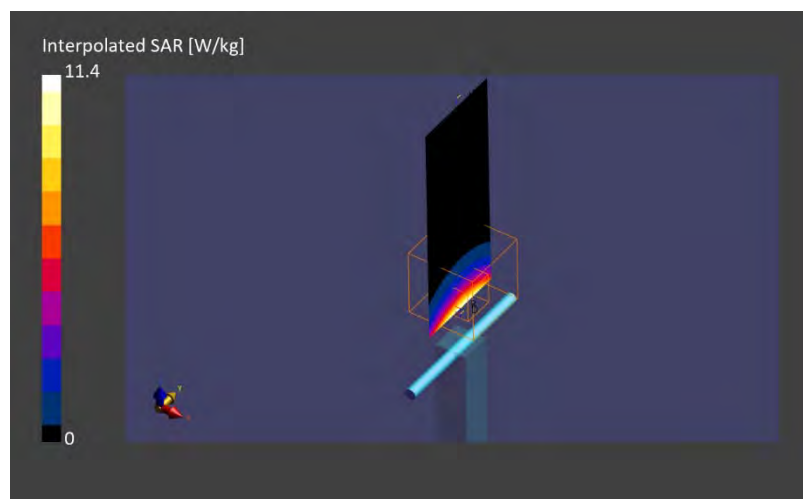
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.02	37.7	1.80

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-24, 10:47	2024-07-24, 10:55
psSAR1g [W/Kg]	5.59	5.58
psSAR10g [W/Kg]	2.47	2.52
Power Drift [dB]	-	0.03
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	80.2
Dist 3dB Peak [mm]	-	9.0



750.000 MHz, CW, 2024-07-25, 09:02

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	41.9	0.904

Hardware Setup

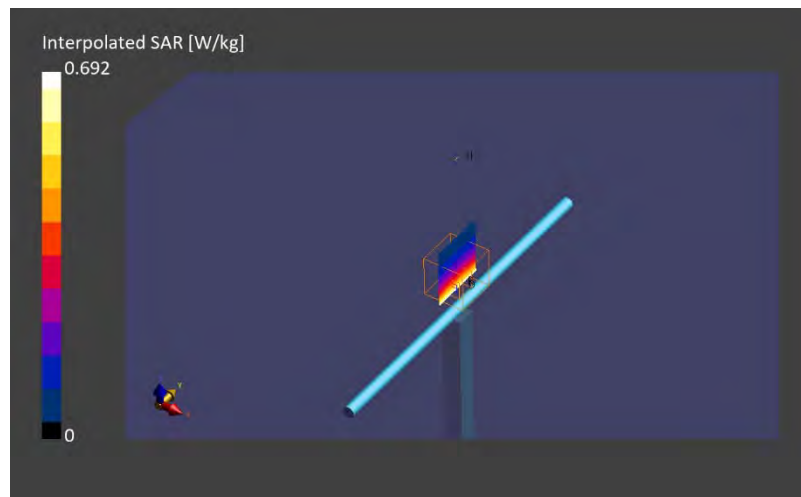
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-25	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-25, 08:56	2024-07-25, 09:02
psSAR1g [W/Kg]	0.453	0.438
psSAR10g [W/Kg]	0.301	0.287
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.4
Dist 3dB Peak [mm]	-	20.4



900.000 MHz, CW, 2024-07-25, 09:32

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.4	0.960

Hardware Setup

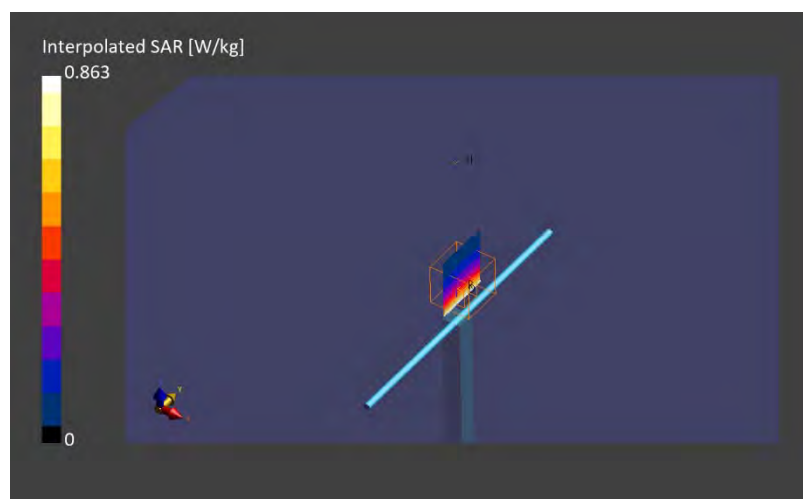
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-25	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-25, 09:22	2024-07-25, 09:32
psSAR1g [W/Kg]	0.549	0.547
psSAR10g [W/Kg]	0.358	0.355
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.5
Dist 3dB Peak [mm]	-	15.6



2600.000 MHz, CW, 2024-07-25, 10:59

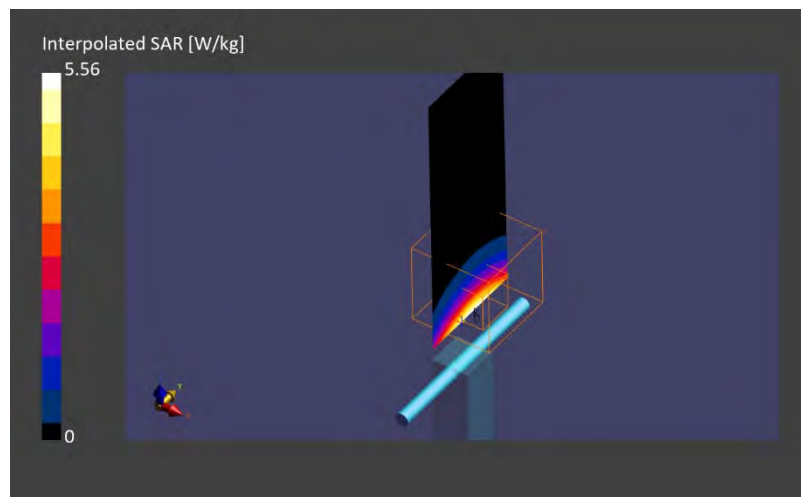
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	39.4	2.00

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-25	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-25, 10:51	2024-07-25, 10:59
psSAR1g [W/Kg]	2.73	2.64
psSAR10g [W/Kg]	1.22	1.17
Power Drift [dB]	-	0.07
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.5
Dist 3dB Peak [mm]	-	9.0



750.000 MHz, CW, 2024-07-26, 08:22

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	43.9	0.887

Hardware Setup

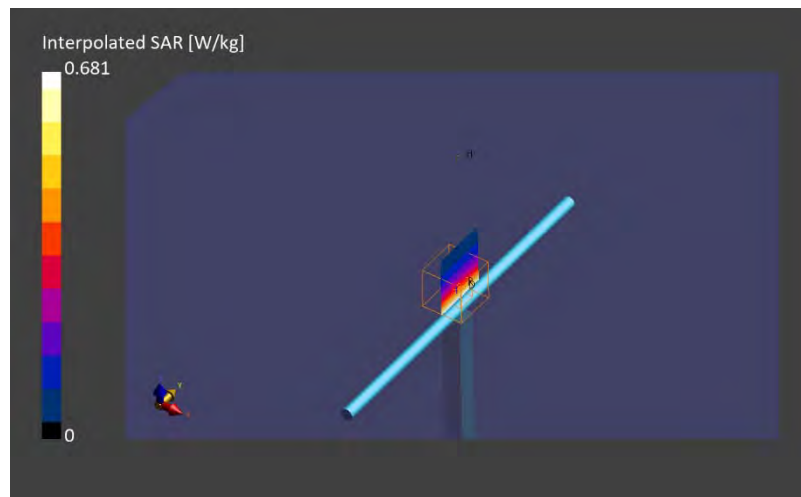
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-26	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-26, 08:13	2024-07-26, 08:22
psSAR1g [W/Kg]	0.434	0.434
psSAR10g [W/Kg]	0.290	0.286
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.3
Dist 3dB Peak [mm]	-	> 15.0



2600.000 MHz, CW, 2024-07-26, 09:41

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	39.6	1.97

Hardware Setup

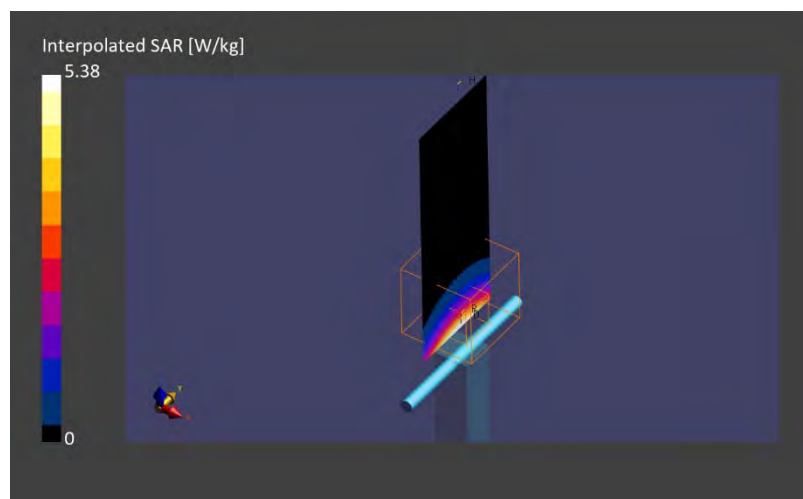
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-26	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-26, 09:27	2024-07-26, 09:41
psSAR1g [W/Kg]	2.58	2.61
psSAR10g [W/Kg]	1.17	1.18
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.4
Dist 3dB Peak [mm]	-	9.0



750.000 MHz, CW, 2024-07-28, 09:05

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	41.9	0.906

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-28	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-28, 08:59	2024-07-28, 09:05
psSAR1g [W/Kg]	2.17	2.12
psSAR10g [W/Kg]	1.44	1.39
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.4
Dist 3dB Peak [mm]	-	19.7



900.000 MHz, CW, 2024-07-28, 08:35

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.4	0.961

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-28	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-28, 08:25	2024-07-28, 08:35
psSAR1g [W/Kg]	2.72	2.71
psSAR10g [W/Kg]	1.77	1.75
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.1
Dist 3dB Peak [mm]	-	18.8



750.000 MHz, CW, 2024-07-30, 13:09

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	42.1	0.891

Hardware Setup

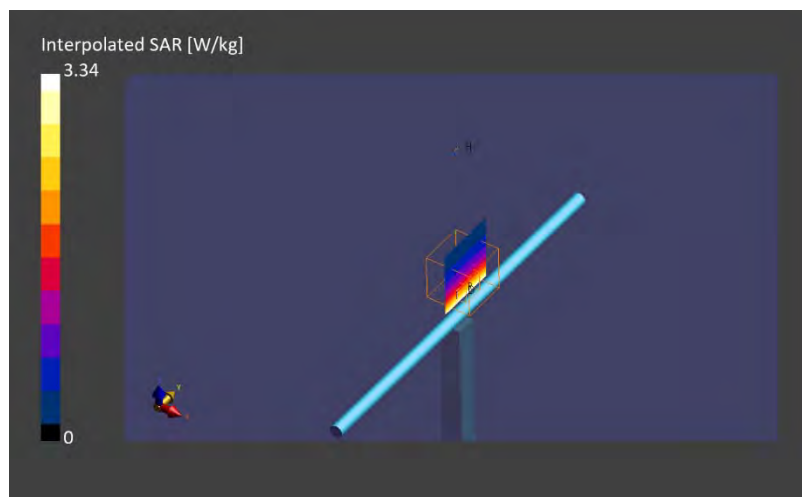
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-30	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-30, 12:55	2024-07-30, 13:09
psSAR1g [W/Kg]	2.18	2.12
psSAR10g [W/Kg]	1.45	1.39
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.7
Dist 3dB Peak [mm]	-	20.5



900.000 MHz, CW, 2024-07-30, 14:01

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.7	0.945

Hardware Setup

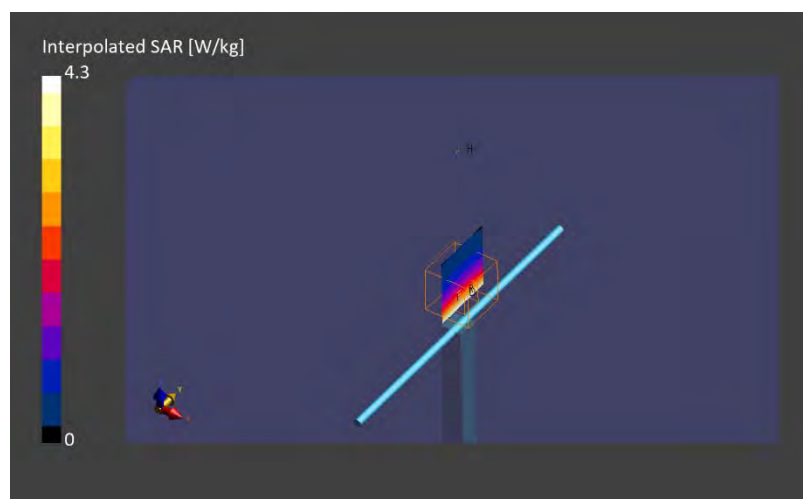
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-30	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-30, 13:50	2024-07-30, 14:01
psSAR1g [W/Kg]	2.67	2.69
psSAR10g [W/Kg]	1.74	1.74
Power Drift [dB]	-	0.03
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.8
Dist 3dB Peak [mm]	-	18.4



1750.000 MHz, CW, 2024-07-30, 15:39

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	39.8	1.34

Hardware Setup

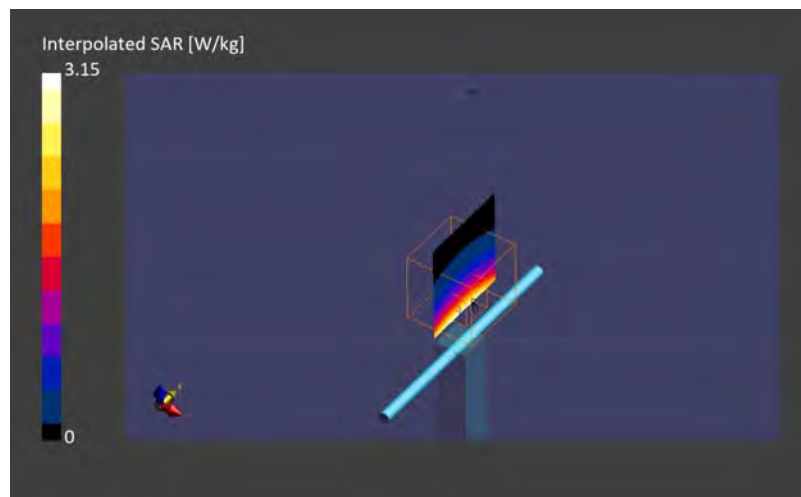
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-30	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-30, 15:33	2024-07-30, 15:39
psSAR1g [W/Kg]	1.74	1.67
psSAR10g [W/Kg]	0.930	0.887
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.4
Dist 3dB Peak [mm]	-	10.8



750.000 MHz, CW, 2024-07-31, 10:25

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	9.96	43.7	0.868

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-31	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-31, 10:19	2024-07-31, 10:25
psSAR1g [W/Kg]	0.443	0.425
psSAR10g [W/Kg]	0.293	0.280
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	88.7
Dist 3dB Peak [mm]	-	22.1



900.000 MHz, CW, 2024-07-31, 10:46

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.42	43.5	0.921

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-31	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-31, 10:41	2024-07-31, 10:46
psSAR1g [W/Kg]	0.550	0.549
psSAR10g [W/Kg]	0.355	0.353
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	88.4
Dist 3dB Peak [mm]	-	16.4



1750.000 MHz, CW, 2024-07-31, 11:01

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.24	42.0	1.35

Hardware Setup

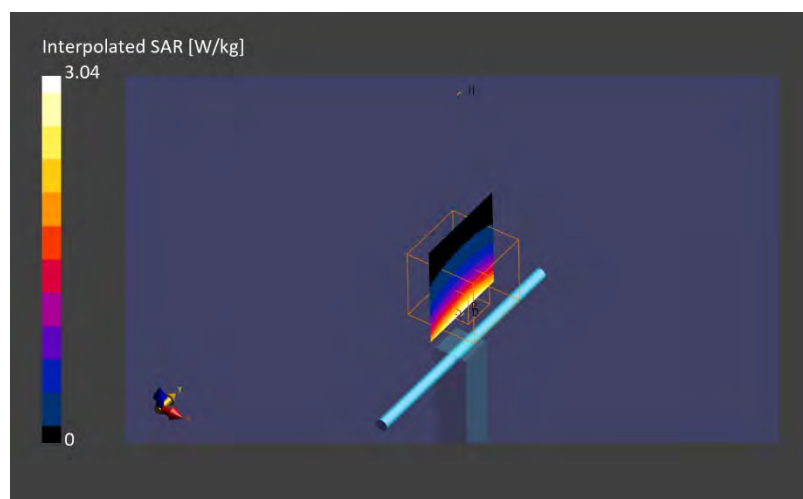
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-31	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-31, 10:55	2024-07-31, 11:01
psSAR1g [W/Kg]	1.77	1.73
psSAR10g [W/Kg]	0.946	0.924
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.5
Dist 3dB Peak [mm]	-	10.8



750.000 MHz, CW, 2024-08-01, 09:55

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	42.5	0.899

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 09:45	2024-08-01, 09:55
psSAR1g [W/Kg]	0.461	0.447
psSAR10g [W/Kg]	0.308	0.293
Power Drift [dB]	-	-0.09
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.8
Dist 3dB Peak [mm]	-	> 15.0



900.000 MHz, CW, 2024-08-01, 10:17

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	42.0	0.957

Hardware Setup

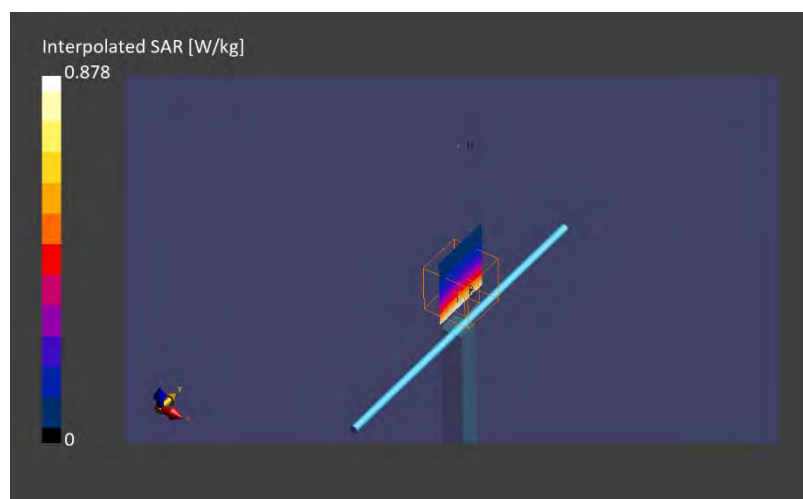
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 10:08	2024-08-01, 10:17
psSAR1g [W/Kg]	0.552	0.552
psSAR10g [W/Kg]	0.360	0.356
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.5
Dist 3dB Peak [mm]	-	16.4



1750.000 MHz, CW, 2024-08-01, 10:47

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	40.4	1.38

Hardware Setup

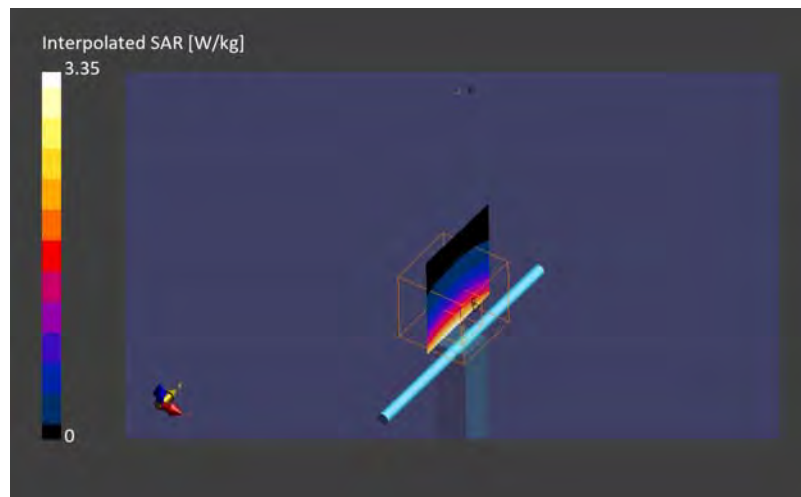
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 10:38	2024-08-01, 10:47
psSAR1g [W/Kg]	1.76	1.77
psSAR10g [W/Kg]	0.944	0.941
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.6
Dist 3dB Peak [mm]	-	10.3



750.000 MHz, CW, 2024-08-02, 09:37

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	41.6	0.883

Hardware Setup

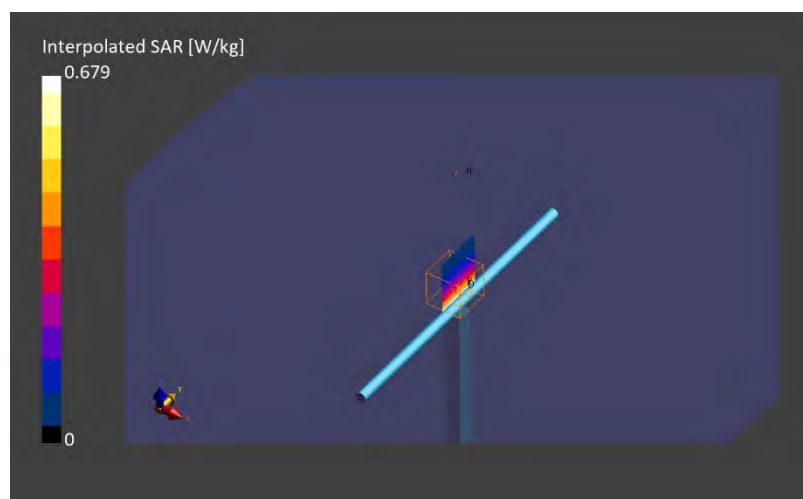
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-02	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-02, 09:28	2024-08-02, 09:37
psSAR1g [W/Kg]	0.431	0.427
psSAR10g [W/Kg]	0.289	0.280
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.6
Dist 3dB Peak [mm]	-	19.7



900.000 MHz, CW, 2024-08-02, 10:38

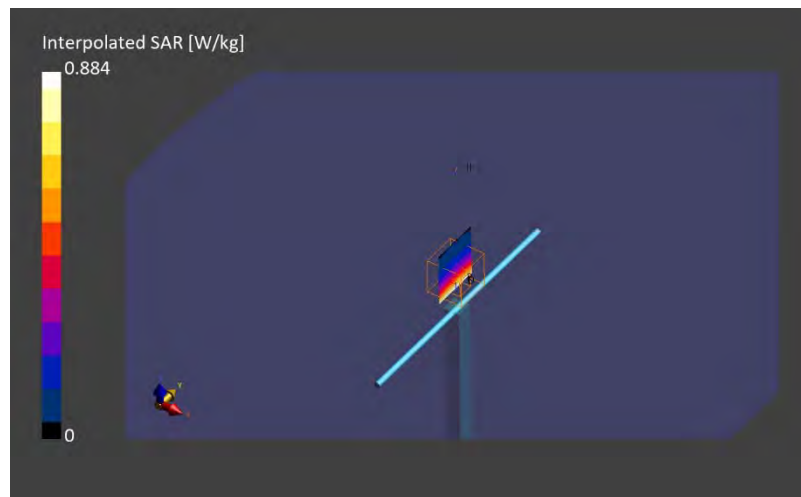
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.5	0.954

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-02	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-02, 10:29	2024-08-02, 10:38
psSAR1g [W/Kg]	0.553	0.551
psSAR10g [W/Kg]	0.359	0.354
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.4
Dist 3dB Peak [mm]	-	18.4



1750.000 MHz, CW, 2024-08-02, 11:17

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	39.4	1.36

Hardware Setup

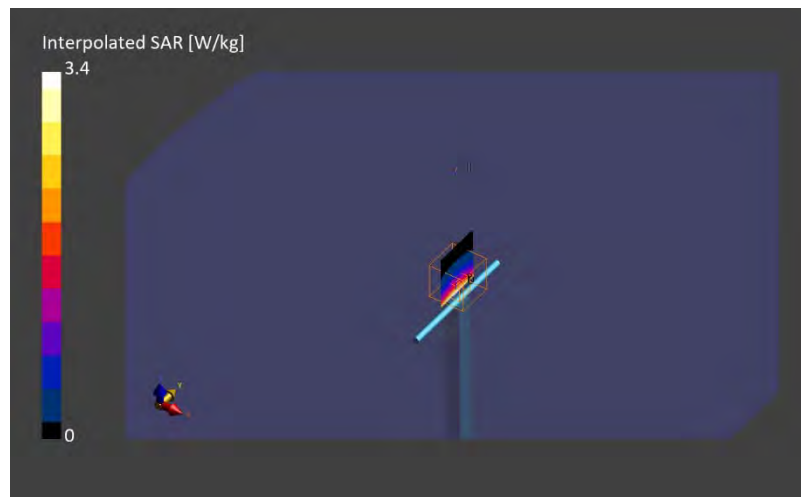
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-02	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-02, 11:08	2024-08-02, 11:17
psSAR1g [W/Kg]	1.76	1.78
psSAR10g [W/Kg]	0.952	0.943
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.6
Dist 3dB Peak [mm]	-	10.3



900.000 MHz, CW, 2024-08-04, 19:05

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.9	0.945

Hardware Setup

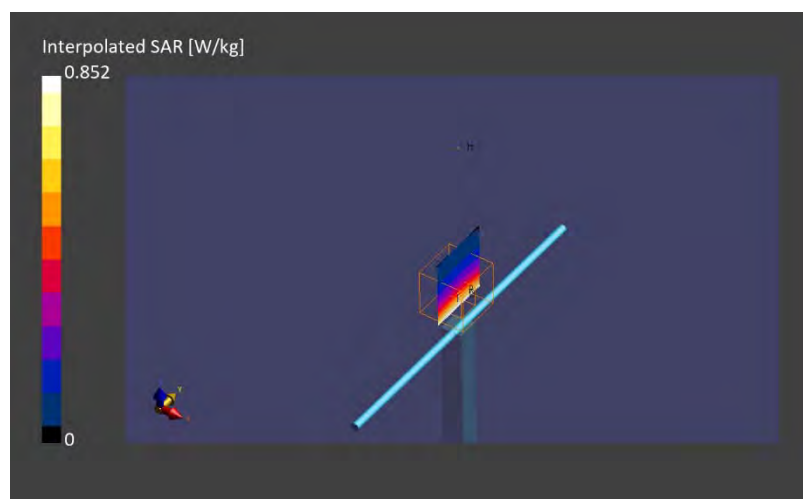
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-04	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-04, 18:57	2024-08-04, 19:05
psSAR1g [W/Kg]	0.540	0.537
psSAR10g [W/Kg]	0.353	0.347
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.1
Dist 3dB Peak [mm]	-	16.8



1750.000 MHz, CW, 2024-08-04, 19:27

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	40.2	1.37

Hardware Setup

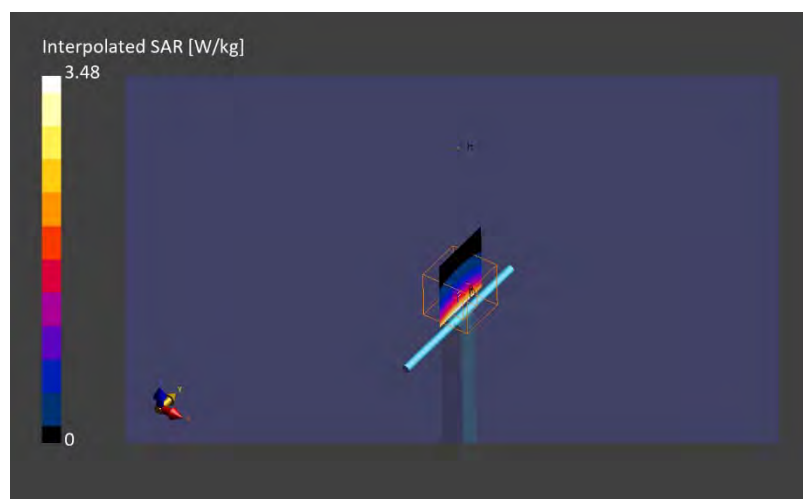
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-04	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-04, 19:18	2024-08-04, 19:27
psSAR1g [W/Kg]	1.82	1.85
psSAR10g [W/Kg]	0.996	0.985
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.7
Dist 3dB Peak [mm]	-	10.8



3500.000 MHz, CW, 2024-08-05, 10:17

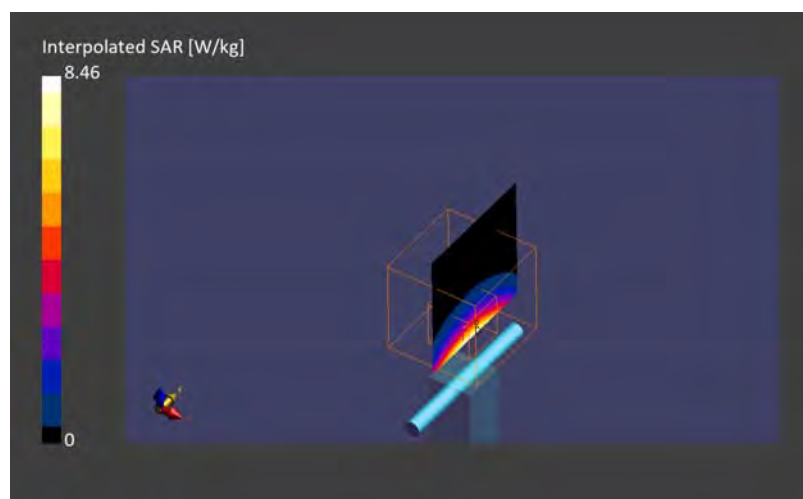
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.74	36.6	2.71

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 10:11	2024-08-05, 10:17
psSAR1g [W/Kg]	3.42	3.31
psSAR10g [W/Kg]	1.32	1.26
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	79.1
Dist 3dB Peak [mm]	-	9.0



3700.000 MHz, CW, 2024-08-05, 10:35

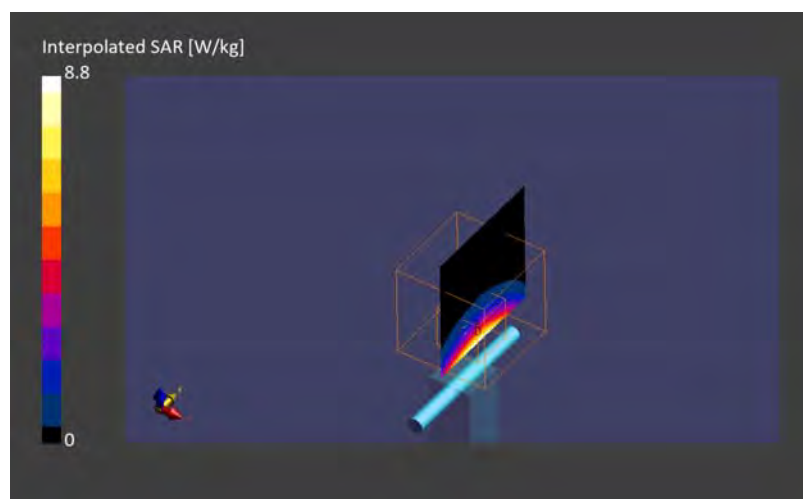
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.68	36.3	2.86

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 10:30	2024-08-05, 10:35
psSAR1g [W/Kg]	3.32	3.25
psSAR10g [W/Kg]	1.28	1.19
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	77.4
Dist 3dB Peak [mm]	-	9.0



3900.000 MHz, CW, 2024-08-05, 10:59

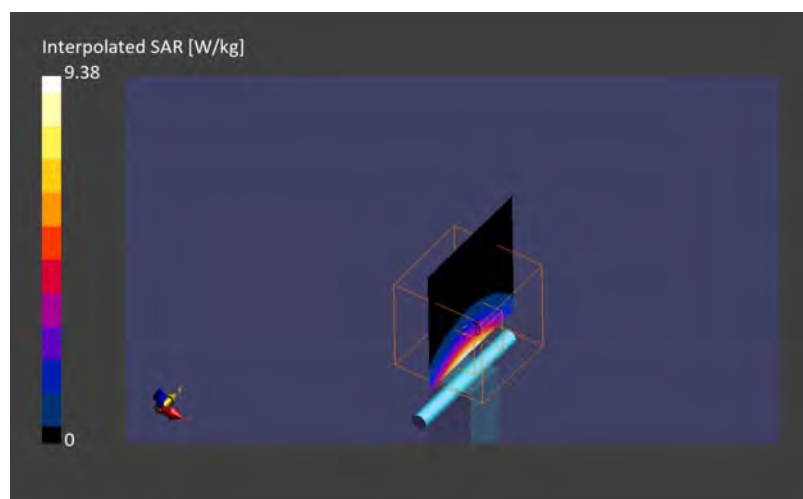
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.58	35.9	3.04

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 10:49	2024-08-05, 10:59
psSAR1g [W/Kg]	3.38	3.52
psSAR10g [W/Kg]	1.21	1.25
Power Drift [dB]	-	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	75.2
Dist 3dB Peak [mm]	-	8.6



1900.000 MHz, CW, 2024-08-05, 18:25

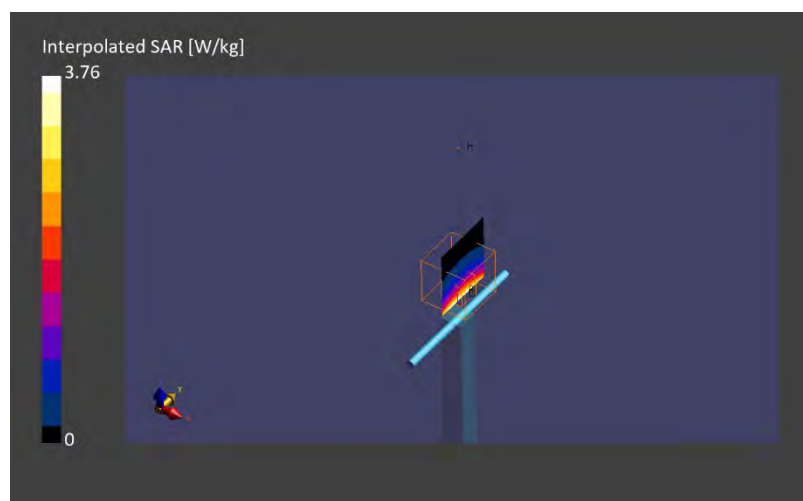
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	39.5	1.43

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 18:20	2024-08-05, 18:25
psSAR1g [W/Kg]	1.98	1.92
psSAR10g [W/Kg]	1.03	0.995
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	81.0
Dist 3dB Peak [mm]	-	10.3



3500.000 MHz, CW, 2024-08-06, 11:15

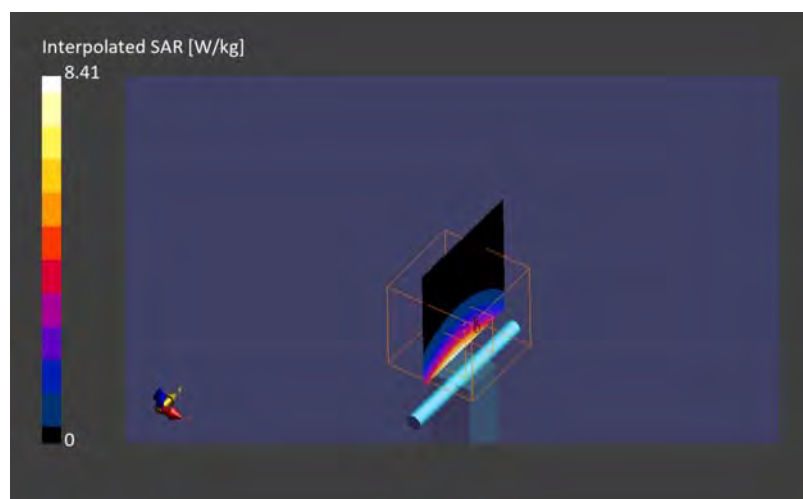
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.74	39.6	2.81

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-06	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-06, 11:04	2024-08-06, 11:15
psSAR1g [W/Kg]	3.20	3.31
psSAR10g [W/Kg]	1.24	1.27
Power Drift [dB]	-	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.7
Dist 3dB Peak [mm]	-	8.1



3700.000 MHz, CW, 2024-08-06, 11:55

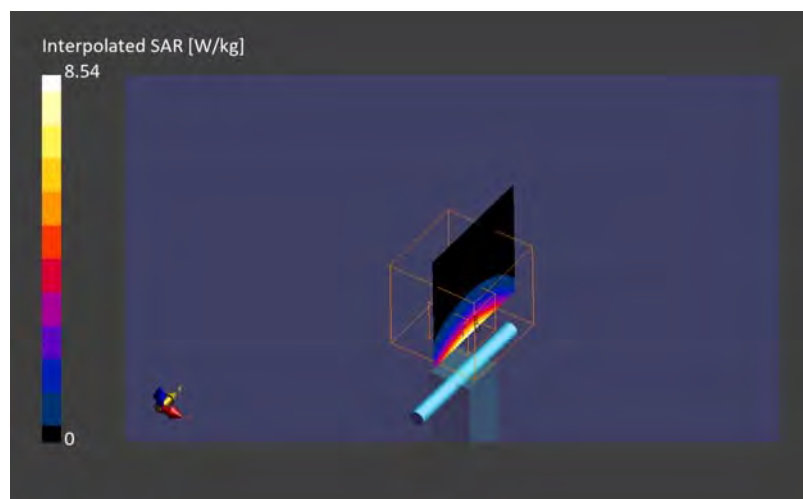
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.68	39.3	3.00

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-06	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-06, 11:49	2024-08-06, 11:55
psSAR1g [W/Kg]	3.18	3.11
psSAR10g [W/Kg]	1.19	1.15
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.3
Dist 3dB Peak [mm]	-	9.0



3900.000 MHz, CW, 2024-08-06, 16:00

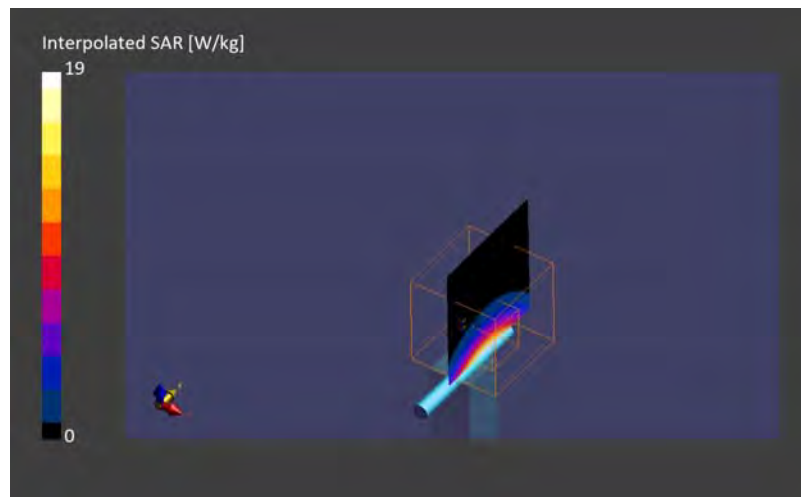
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.58	38.9	3.20

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-06	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-06, 15:49	2024-08-06, 16:00
psSAR1g [W/Kg]	6.48	7.10
psSAR10g [W/Kg]	2.46	2.51
Power Drift [dB]	-	-0.07
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.5
Dist 3dB Peak [mm]	-	8.1



3500.000 MHz, CW, 2024-08-07, 14:34

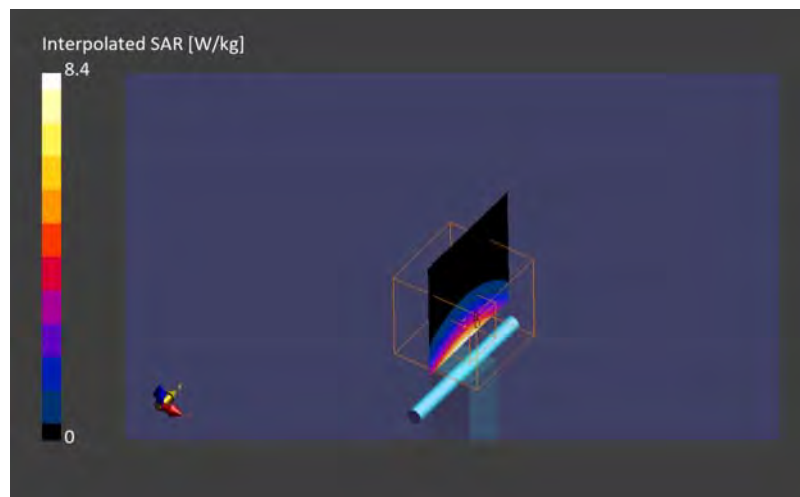
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.74	37.4	2.78

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-07	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-07, 14:24	2024-08-07, 14:34
psSAR1g [W/Kg]	3.34	3.27
psSAR10g [W/Kg]	1.27	1.25
Power Drift [dB]	-	-0.10
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.7
Dist 3dB Peak [mm]	-	9.0



3700.000 MHz, CW, 2024-08-07, 15:12

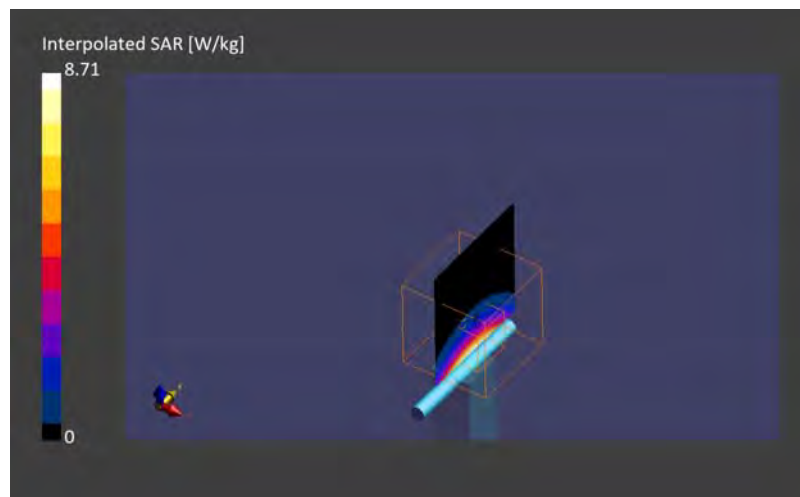
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.68	37.0	2.97

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-07	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-07, 15:02	2024-08-07, 15:12
psSAR1g [W/Kg]	2.96	3.21
psSAR10g [W/Kg]	1.17	1.18
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	73.6
Dist 3dB Peak [mm]	-	8.6



3900.000 MHz, CW, 2024-08-07, 16:23

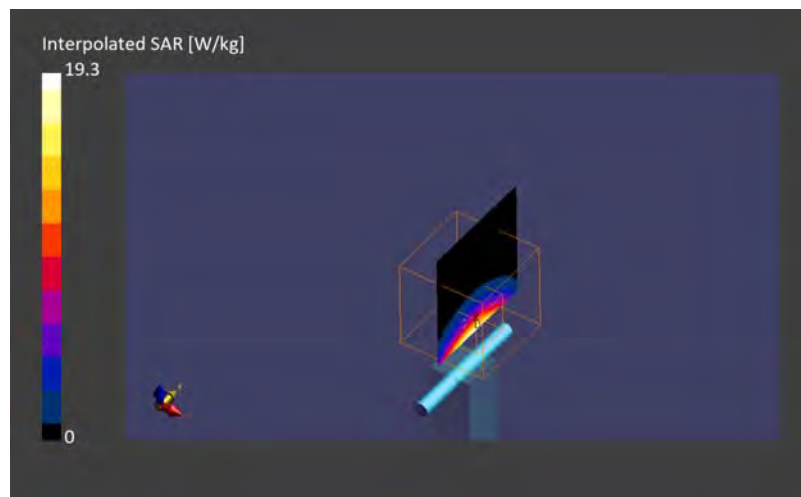
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.58	36.7	3.19

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-07	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-07, 16:17	2024-08-07, 16:23
psSAR1g [W/Kg]	7.36	7.06
psSAR10g [W/Kg]	2.73	2.52
Power Drift [dB]	-	0.03
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.7
Dist 3dB Peak [mm]	-	8.3



2600.000 MHz, CW, 2024-08-08, 04:14

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.31	39.1	1.97

Hardware Setup

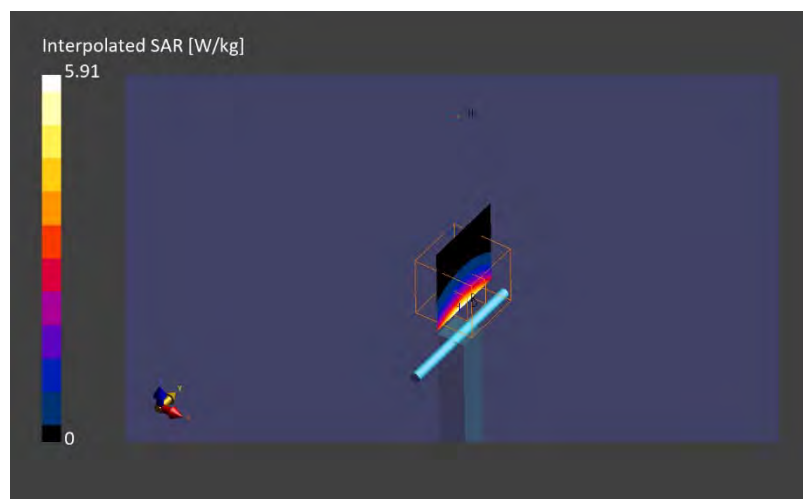
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-07	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-08, 04:09	2024-08-08, 04:14
psSAR1g [W/Kg]	2.76	2.66
psSAR10g [W/Kg]	1.25	1.18
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	79.7
Dist 3dB Peak [mm]	-	9.1



1750.000 MHz, CW, 2024-08-08, 07:51

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.24	39.7	1.36

Hardware Setup

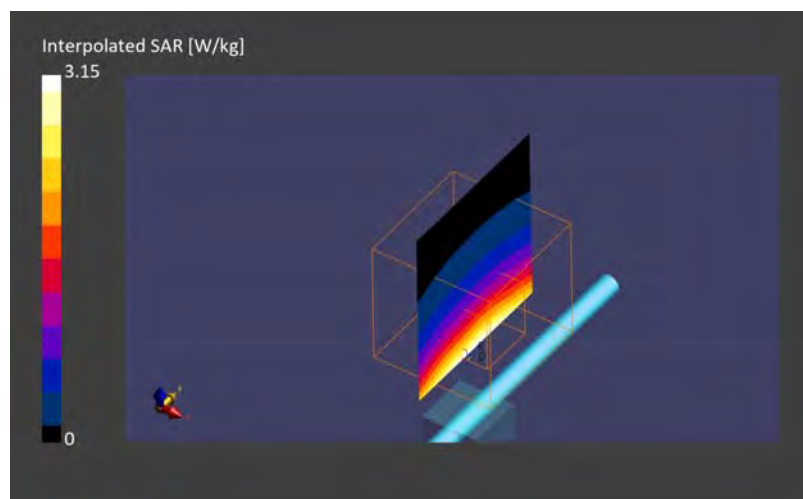
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-08, 07:45	2024-08-08, 07:51
psSAR1g [W/Kg]	1.83	1.77
psSAR10g [W/Kg]	0.974	0.942
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.9
Dist 3dB Peak [mm]	-	10.8



1900.000 MHz, CW, 2024-08-08, 08:16

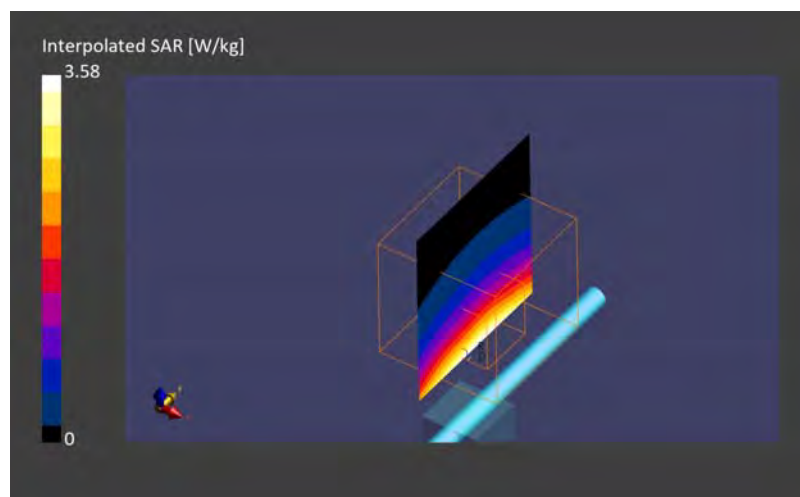
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.99	39.5	1.44

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-08, 08:10	2024-08-08, 08:16
psSAR1g [W/Kg]	2.02	1.97
psSAR10g [W/Kg]	1.05	1.03
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.5
Dist 3dB Peak [mm]	-	10.3



750.000 MHz, CW, 2024-08-08, 17:46

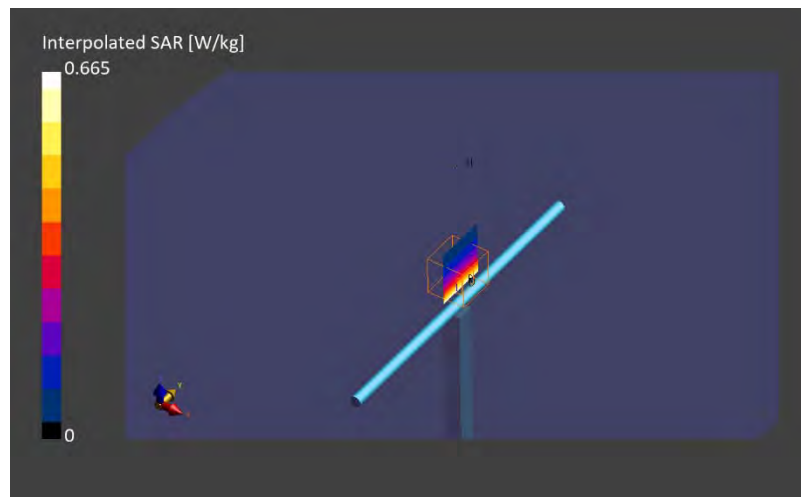
SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	42.1	0.881

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-08, 17:41	2024-08-08, 17:46
psSAR1g [W/Kg]	0.432	0.423
psSAR10g [W/Kg]	0.288	0.279
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.7
Dist 3dB Peak [mm]	-	> 15.0



900.000 MHz, CW, 2024-08-08, 18:15

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.8	0.946

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-08, 18:07	2024-08-08, 18:15
psSAR1g [W/Kg]	0.529	0.529
psSAR10g [W/Kg]	0.344	0.344
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.0
Dist 3dB Peak [mm]	-	17.2



1750.000 MHz, CW, 2024-08-13, 09:42

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	39.7	1.33

Hardware Setup

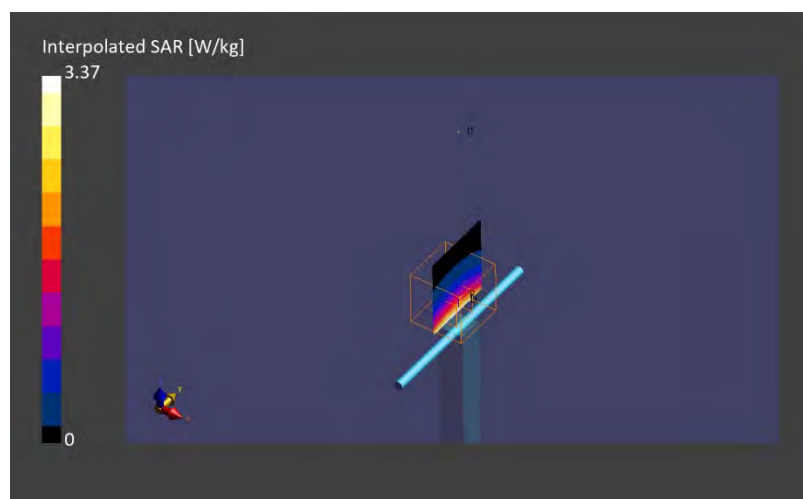
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 2024-08-13	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-13, 09:34	2024-08-13, 09:42
psSAR1g [W/Kg]	1.76	1.77
psSAR10g [W/Kg]	0.940	0.945
Power Drift [dB]	-	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.9
Dist 3dB Peak [mm]	-	10.8



750.000 MHz, CW, 2024-08-19, 09:29

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
750.000	10.03	41.6	0.859

Hardware Setup

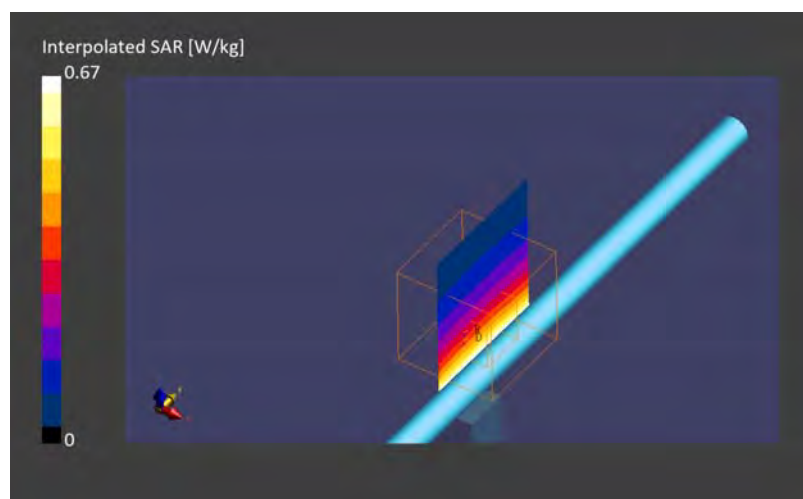
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-19, 09:24	2024-08-19, 09:29
psSAR1g [W/Kg]	0.441	0.429
psSAR10g [W/Kg]	0.294	0.281
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	85.6
Dist 3dB Peak [mm]	-	> 15.0



900.000 MHz, CW, 2024-08-19, 09:54

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	9.61	41.2	0.918

Hardware Setup

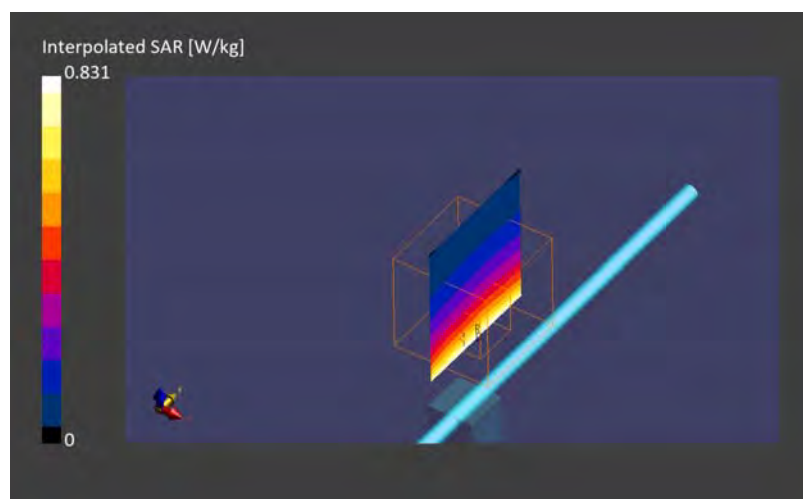
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-19, 09:49	2024-08-19, 09:54
psSAR1g [W/Kg]	0.545	0.535
psSAR10g [W/Kg]	0.351	0.341
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	85.7
Dist 3dB Peak [mm]	-	15.6



1750.000 MHz, CW, 2024-08-19, 10:10

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	8.27	39.4	1.35

Hardware Setup

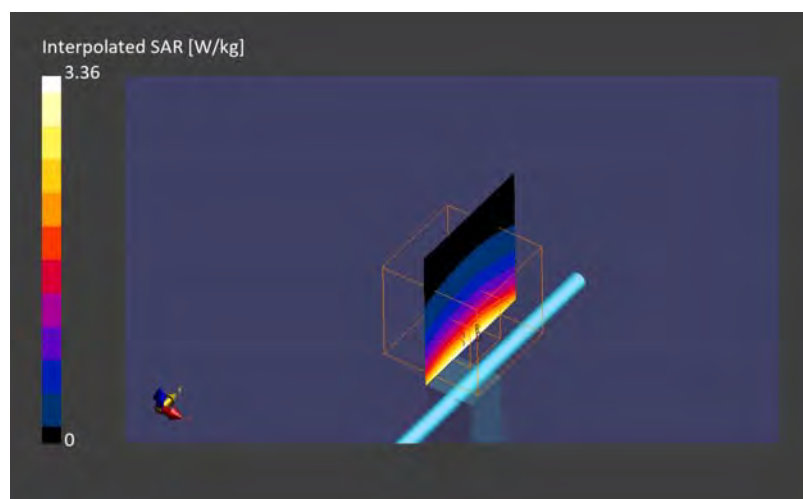
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-19, 10:05	2024-08-19, 10:10
psSAR1g [W/Kg]	1.86	1.79
psSAR10g [W/Kg]	0.997	0.948
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	82.0
Dist 3dB Peak [mm]	-	10.8



1900.000 MHz, CW, 2024-08-19, 11:01

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.91	39.1	1.44

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-19, 10:56	2024-08-19, 11:01
psSAR1g [W/Kg]	2.01	1.94
psSAR10g [W/Kg]	1.04	1.00
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.4
Dist 3dB Peak [mm]	-	10.3



1900.000 MHz, CW, 2024-08-19, 17:47

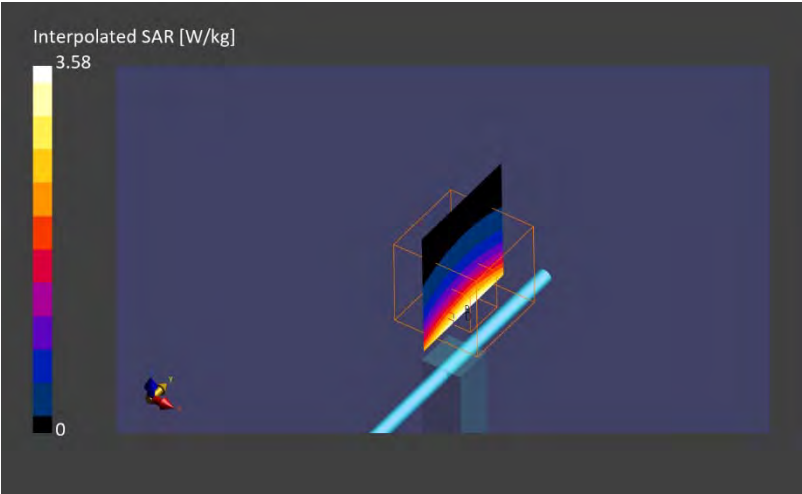
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1900.000	7.99	40.3	1.44

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-19, 17:41	2024-08-19, 17:47
psSAR1g [W/Kg]	2.06	1.98
psSAR10g [W/Kg]	1.07	1.03
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.8
Dist 3dB Peak [mm]	-	10.8



2600.000 MHz, CW, 2024-08-20, 10:59

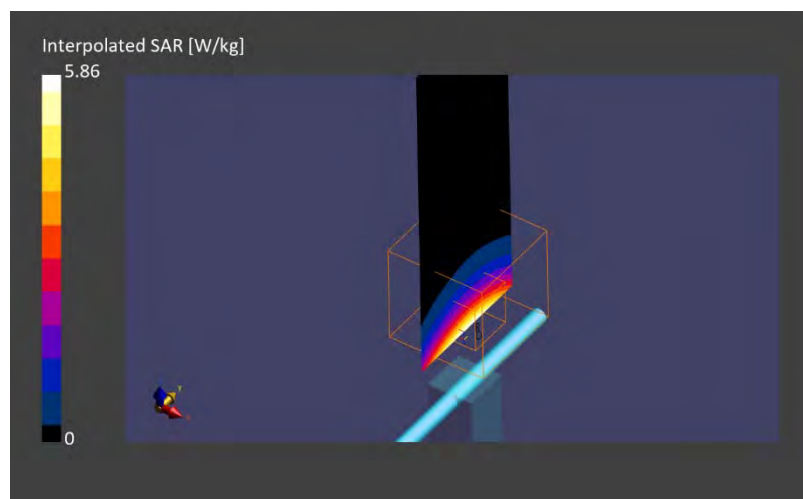
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	39.2	1.96

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-20	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-20, 10:51	2024-08-20, 10:59
psSAR1g [W/Kg]	2.81	2.76
psSAR10g [W/Kg]	1.25	1.23
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.5
Dist 3dB Peak [mm]	-	9.0



3500.000 MHz, CW, 2024-08-20, 11:29

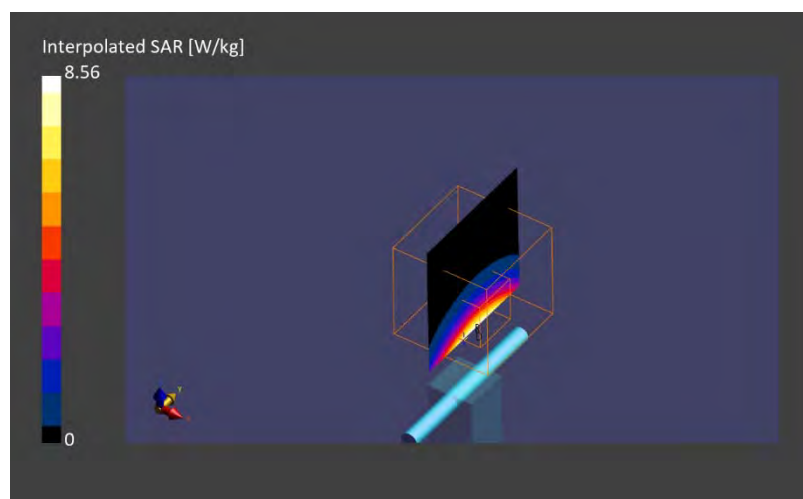
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.91	37.5	2.75

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-20	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-20, 11:23	2024-08-20, 11:29
psSAR1g [W/Kg]	3.42	3.38
psSAR10g [W/Kg]	1.30	1.28
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	78.6
Dist 3dB Peak [mm]	-	8.3



3700.000 MHz, CW, 2024-08-20, 11:49

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.93	37.1	2.94

Hardware Setup

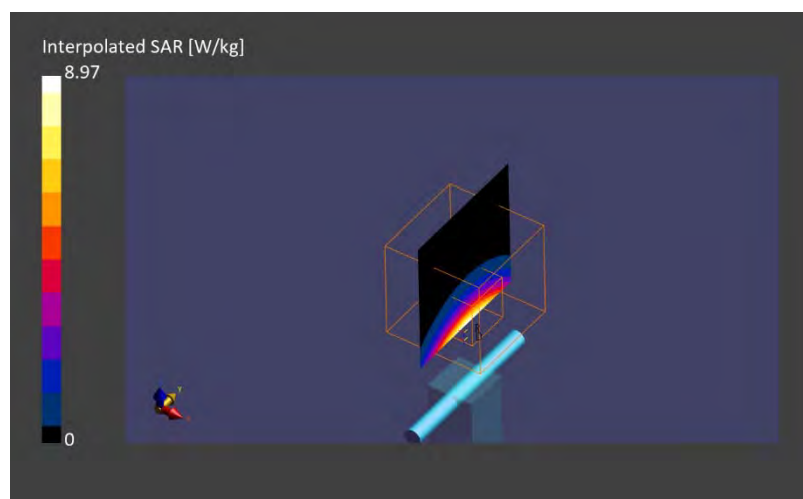
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-20	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-20, 11:42	2024-08-20, 11:49
psSAR1g [W/Kg]	3.21	3.26
psSAR10g [W/Kg]	1.18	1.18
Power Drift [dB]	-	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	74.8
Dist 3dB Peak [mm]	-	8.0



3900.000 MHz, CW, 2024-08-20, 12:21

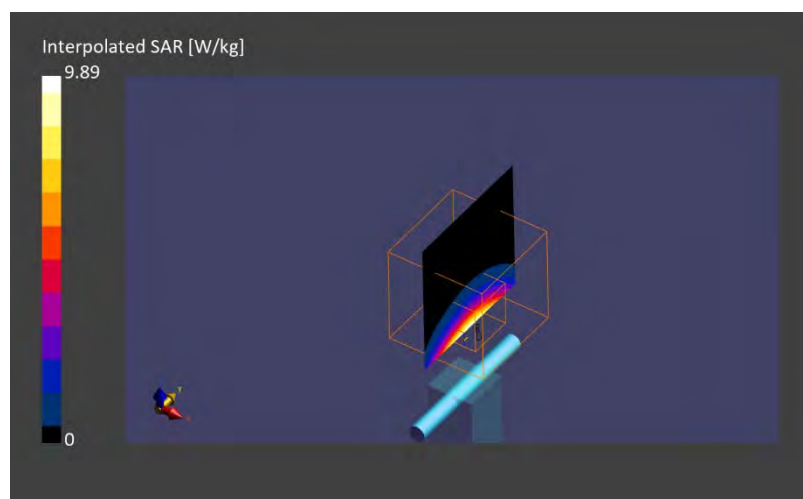
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3900.000	6.79	36.8	3.14

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-20	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-20, 12:15	2024-08-20, 12:21
psSAR1g [W/Kg]	3.45	3.45
psSAR10g [W/Kg]	1.21	1.21
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	74.5
Dist 3dB Peak [mm]	-	8.3



3700.000 MHz, CW, 2024-08-21, 13:27

SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.93	36.6	2.97

Hardware Setup

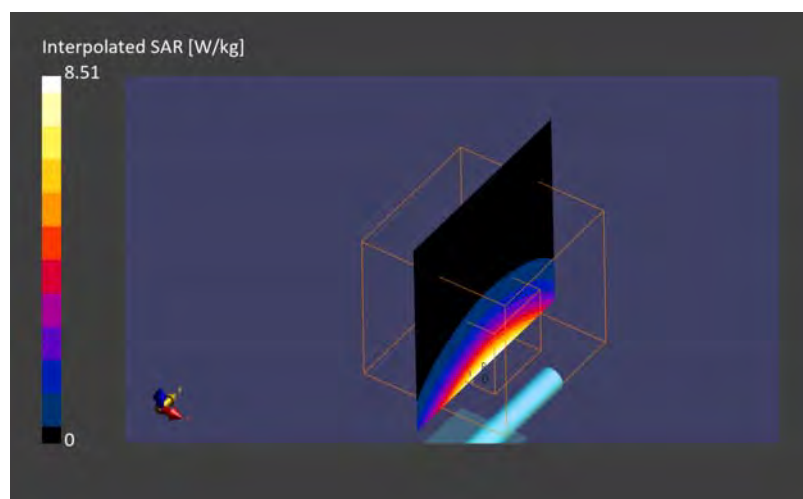
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-21	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-21, 13:21	2024-08-21, 13:27
psSAR1g [W/Kg]	3.18	3.17
psSAR10g [W/Kg]	1.18	1.17
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	76.8
Dist 3dB Peak [mm]	-	8.3



3700.000 MHz, CW, 2024-08-22, 15:13

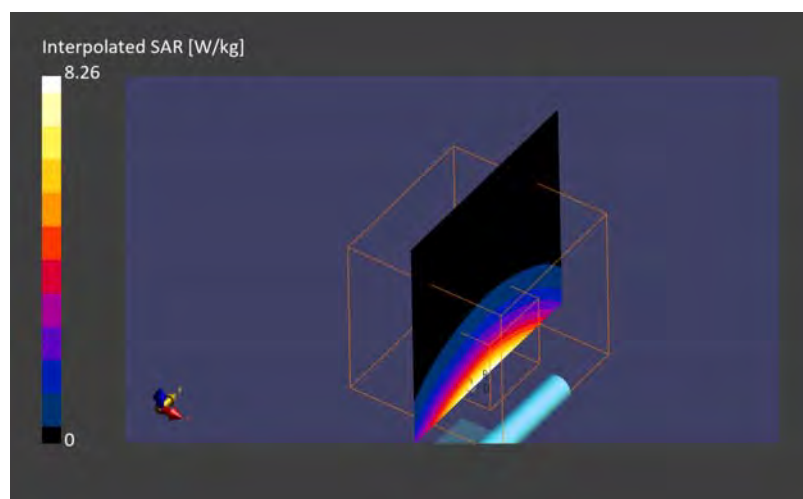
SAR2 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3700.000	6.93	36.6	2.90

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-22	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-22, 15:07	2024-08-22, 15:13
psSAR1g [W/Kg]	3.19	3.13
psSAR10g [W/Kg]	1.16	1.15
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	77.3
Dist 3dB Peak [mm]	-	8.3



900.000 MHz, CW, 2024-08-27, 08:35

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
900.000	8.74	39.9	0.961

Hardware Setup

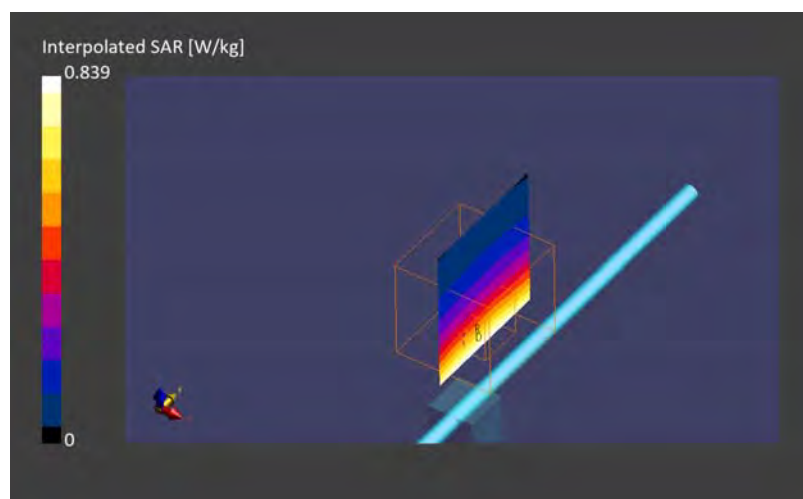
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-27	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-27, 08:30	2024-08-27, 08:35
psSAR1g [W/Kg]	0.579	0.558
psSAR10g [W/Kg]	0.377	0.358
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	88.9
Dist 3dB Peak [mm]	-	15.6



1750.000 MHz, CW, 2024-08-27, 08:17

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
1750.000	7.61	38.4	1.35

Hardware Setup

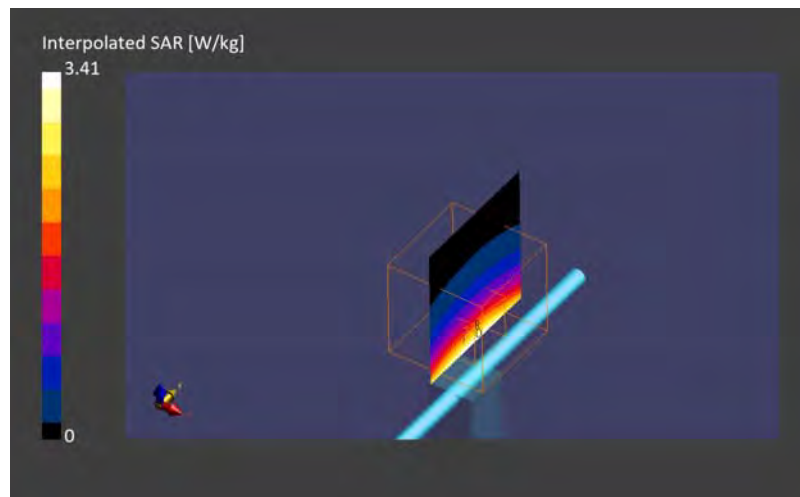
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-27	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-27, 08:12	2024-08-27, 08:17
psSAR1g [W/Kg]	1.89	1.81
psSAR10g [W/Kg]	1.02	0.956
Power Drift [dB]	-	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.4
Dist 3dB Peak [mm]	-	10.8



2600.000 MHz, CW, 2024-08-30, 08:28

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	38.4	1.98

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-29	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-30, 08:23	2024-08-30, 08:28
psSAR1g [W/Kg]	2.85	2.73
psSAR10g [W/Kg]	1.29	1.22
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.9
Dist 3dB Peak [mm]	-	9.0



3500.000 MHz, CW, 2024-08-30, 08:48

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.91	36.6	2.79

Hardware Setup

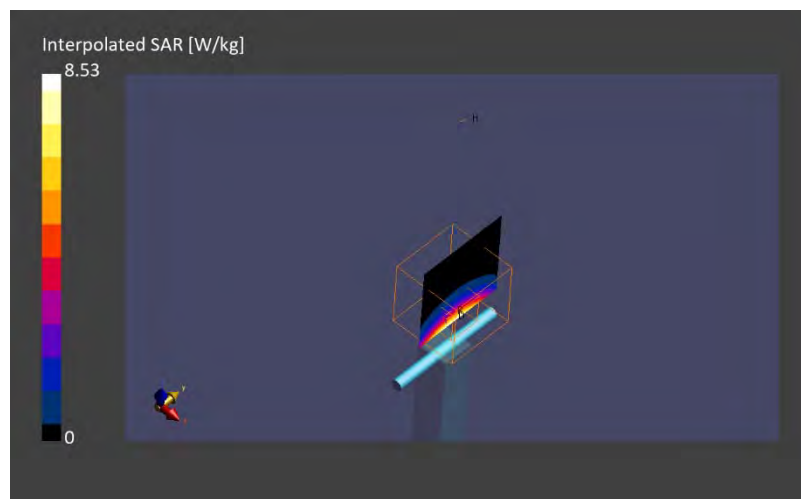
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-30	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-30, 08:43	2024-08-30, 08:48
psSAR1g [W/Kg]	3.48	3.37
psSAR10g [W/Kg]	1.36	1.29
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.4
Dist 3dB Peak [mm]	-	8.6



2600.000 MHz, CW, 2024-09-02, 08:22

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	39.7	1.96

Hardware Setup

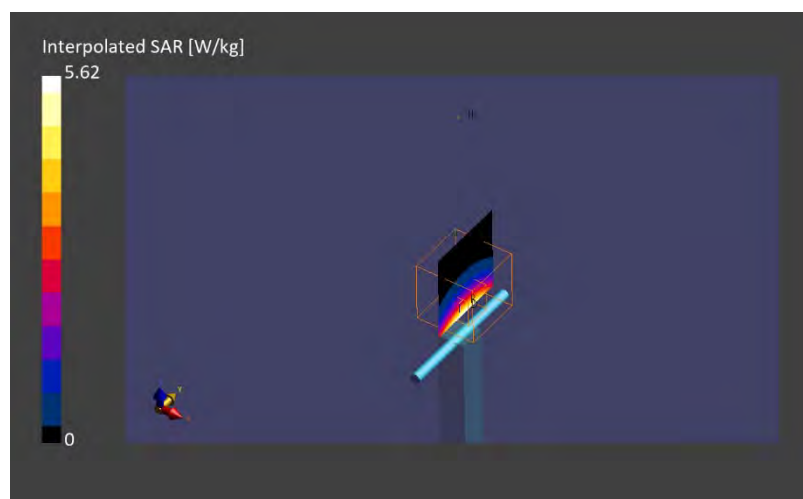
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-02	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-02, 08:16	2024-09-02, 08:22
psSAR1g [W/Kg]	2.82	2.70
psSAR10g [W/Kg]	1.31	1.21
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.5
Dist 3dB Peak [mm]	-	9.1



3500.000 MHz, CW, 2024-09-02, 08:41

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.91	38.0	2.77

Hardware Setup

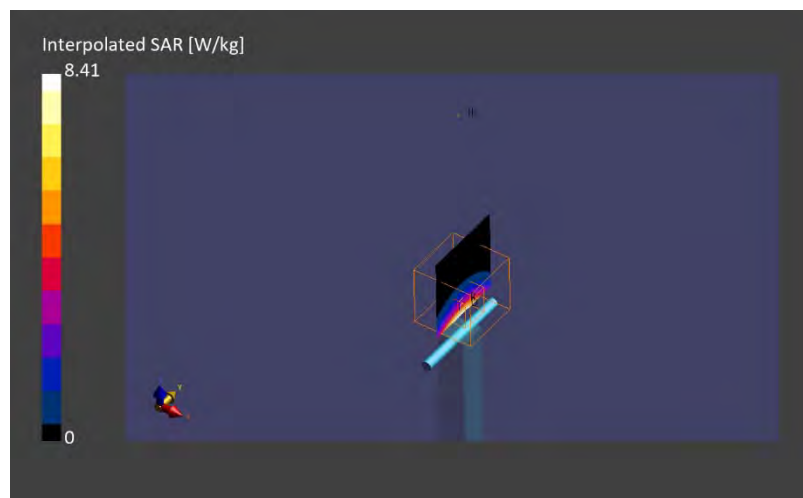
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-02	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-02, 08:31	2024-09-02, 08:41
psSAR1g [W/Kg]	3.32	3.33
psSAR10g [W/Kg]	1.29	1.28
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	76.0
Dist 3dB Peak [mm]	-	9.0



2600.000 MHz, CW, 2024-09-04, 08:11

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	40.6	1.97

Hardware Setup

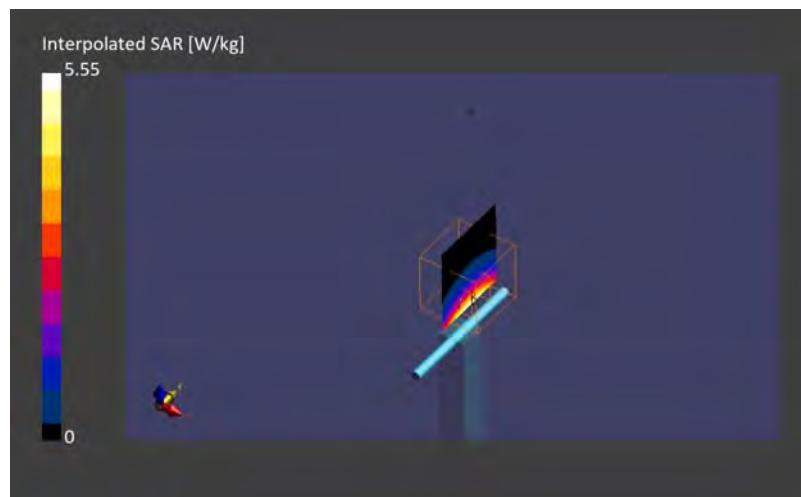
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-04	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-04, 08:05	2024-09-04, 08:11
psSAR1g [W/Kg]	2.84	2.70
psSAR10g [W/Kg]	1.30	1.21
Power Drift [dB]	-	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.2
Dist 3dB Peak [mm]	-	9.0



3500.000 MHz, CW, 2024-09-04, 08:28

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.91	38.9	2.78

Hardware Setup

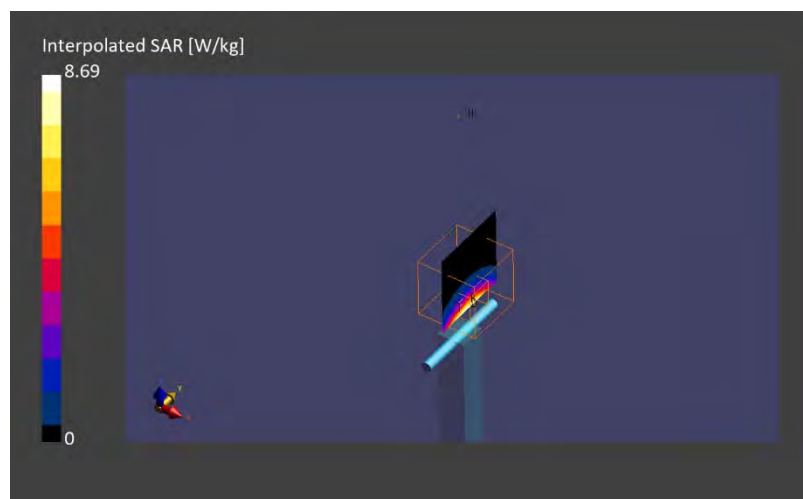
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-04	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-04, 08:23	2024-09-04, 08:28
psSAR1g [W/Kg]	3.55	3.44
psSAR10g [W/Kg]	1.40	1.32
Power Drift [dB]	-	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.8
Dist 3dB Peak [mm]	-	9.0



2600.000 MHz, CW, 2024-09-05, 08:20

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
2600.000	7.67	40.6	1.97

Hardware Setup

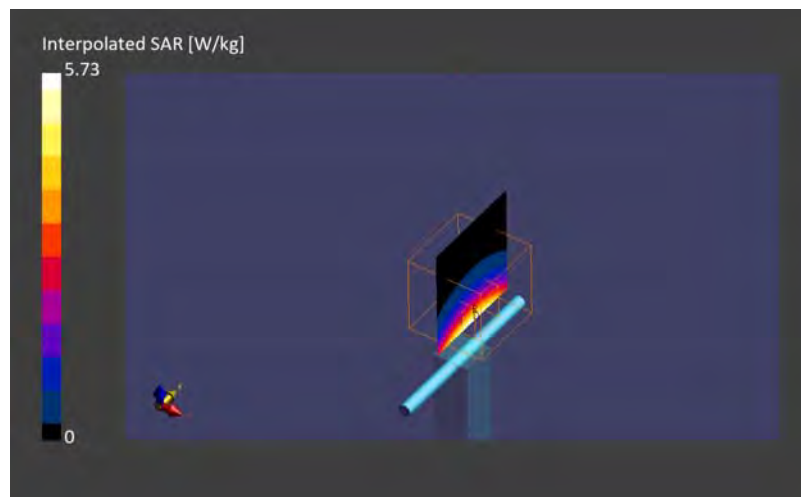
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-05	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-05, 08:15	2024-09-05, 08:20
psSAR1g [W/Kg]	2.89	2.77
psSAR10g [W/Kg]	1.33	1.24
Power Drift [dB]	-	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.5
Dist 3dB Peak [mm]	-	9.0



3500.000 MHz, CW, 2024-09-05, 08:34

SAR1 Exposure Conditions

Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
3500.000	6.91	38.9	2.78

Hardware Setup

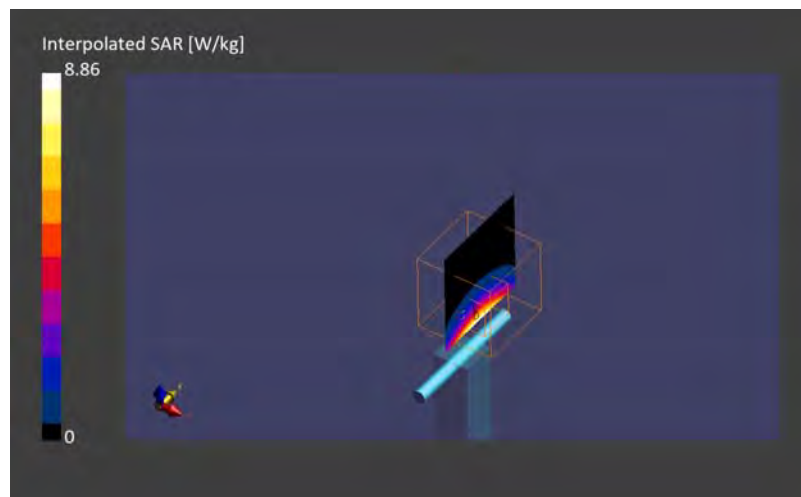
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge2024-09-05	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-05, 08:28	2024-09-05, 08:34
psSAR1g [W/Kg]	3.58	3.47
psSAR10g [W/Kg]	1.43	1.34
Power Drift [dB]	-	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.5
Dist 3dB Peak [mm]	-	9.0



Appendix Power measurement result

WCDMA
Band2

R99

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	24.50	18.00	23.67	16.96
		9400	1880.0	24.50	18.00	23.63	16.94
		9538	1907.6	24.50	18.00	23.58	16.88

HSDPA

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.50	17.00	22.68	15.88
		9400	1880.0	23.50	17.00	22.63	15.86
		9538	1907.6	23.50	17.00	22.59	15.82
	Subtest 2	9262	1852.4	23.50	17.00	22.64	15.86
		9400	1880.0	23.50	17.00	22.62	15.84
		9538	1907.6	23.50	17.00	22.59	15.80
	Subtest 3	9262	1852.4	23.00	17.00	22.18	15.32
		9400	1880.0	23.00	17.00	22.15	15.31
		9538	1907.6	23.00	17.00	22.10	15.20
	Subtest 4	9262	1852.4	23.00	17.00	22.16	15.33
		9400	1880.0	23.00	17.00	22.14	15.30
		9538	1907.6	23.00	17.00	22.10	15.16

DC-HSDPA

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.50	17.00	22.68	15.88
		9400	1880.0	23.50	17.00	22.64	15.84
		9538	1907.6	23.50	17.00	22.60	15.75
	Subtest 2	9262	1852.4	23.50	17.00	22.69	15.81
		9400	1880.0	23.50	17.00	22.64	15.75
		9538	1907.6	23.50	17.00	22.60	15.61
	Subtest 3	9262	1852.4	23.00	17.00	22.17	15.27
		9400	1880.0	23.00	17.00	22.14	15.26
		9538	1907.6	23.00	17.00	22.11	15.17
	Subtest 4	9262	1852.4	23.00	17.00	22.19	15.26
		9400	1880.0	23.00	17.00	22.14	15.22
		9538	1907.6	23.00	17.00	22.11	15.20

HSUPA

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
WCDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.50	17.00	22.68	15.52
		9400	1880.0	23.50	17.00	22.64	15.41
		9538	1907.6	23.50	17.00	22.62	15.31
	Subtest 2	9262	1852.4	21.50	17.00	20.62	15.48
		9400	1880.0	21.50	17.00	20.62	15.46
		9538	1907.6	21.50	17.00	20.61	15.41
	Subtest 3	9262	1852.4	22.50	17.00	21.65	15.95
		9400	1880.0	22.50	17.00	21.62	15.91
		9538	1907.6	22.50	17.00	21.66	15.89
	Subtest 4	9262	1852.4	21.50	17.00	20.68	16.00
		9400	1880.0	21.50	17.00	20.63	15.97
		9538	1907.6	21.50	17.00	20.61	15.92
	Subtest 5	9262	1852.4	23.50	17.00	22.61	16.01
		9400	1880.0	23.50	17.00	22.64	15.97
		9538	1907.6	23.50	17.00	22.61	15.94

HSPA+

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	24.50	18.00	23.68	17.00
		9400	1880.0	24.50	18.00	23.64	16.99
		9538	1907.6	24.50	18.00	23.60	16.95

Band4
R99

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	24.50	21.00	23.57	19.60
		1413	1732.6	24.50	21.00	23.64	19.80
		1513	1752.6	24.50	21.00	23.80	19.94

HSDPA

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.50	20.00	22.49	18.67
		1413	1732.6	23.50	20.00	22.74	18.90
		1513	1752.6	23.50	20.00	22.83	19.03
	Subtest 2	1312	1712.4	23.50	20.00	22.49	18.67
		1413	1732.6	23.50	20.00	22.73	18.82
		1513	1752.6	23.50	20.00	22.81	18.92
	Subtest 3	1312	1712.4	23.00	20.00	22.00	18.12
		1413	1732.6	23.00	20.00	22.25	18.25
		1513	1752.6	23.00	20.00	22.32	18.44
	Subtest 4	1312	1712.4	23.00	20.00	21.99	18.16
		1413	1732.6	23.00	20.00	22.23	18.29
		1513	1752.6	23.00	20.00	22.31	18.40

DC-HSDPA

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.50	20.00	22.51	18.66
		1413	1732.6	23.50	20.00	22.74	18.80
		1513	1752.6	23.50	20.00	22.84	18.90
	Subtest 2	1312	1712.4	23.50	20.00	22.51	18.58
		1413	1732.6	23.50	20.00	22.74	18.75
		1513	1752.6	23.50	20.00	22.83	18.86
	Subtest 3	1312	1712.4	23.00	20.00	22.00	18.09
		1413	1732.6	23.00	20.00	22.25	18.20
		1513	1752.6	23.00	20.00	22.32	18.39
	Subtest 4	1312	1712.4	23.00	20.00	22.00	18.09
		1413	1732.6	23.00	20.00	22.24	18.22
		1513	1752.6	23.00	20.00	22.31	18.34

HSUPA

Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
WCDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.50	20.00	22.54	18.57
		1413	1732.6	23.50	20.00	22.42	18.71
		1513	1752.6	23.50	20.00	22.57	18.86
	Subtest 2	1312	1712.4	21.50	20.00	20.15	18.29
		1413	1732.6	21.50	20.00	20.41	18.46
		1513	1752.6	21.50	20.00	20.55	18.59
	Subtest 3	1312	1712.4	22.50	20.00	21.14	18.80
		1413	1732.6	22.50	20.00	21.40	18.98
		1513	1752.6	22.50	20.00	21.54	19.08
	Subtest 4	1312	1712.4	21.50	20.00	20.16	18.81
		1413	1732.6	21.50	20.00	20.42	18.99
		1513	1752.6	21.50	20.00	20.56	19.11
	Subtest 5	1312	1712.4	23.50	20.00	22.17	18.81
		1413	1732.6	23.50	20.00	22.41	18.99
		1513	1752.6	23.50	20.00	22.56	19.11

HSPA+

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	24.50	21.00	23.58	19.83
		1413	1732.6	24.50	21.00	23.66	20.01
		1513	1752.6	24.50	21.00	23.81	20.13

Band5
R99

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.50	23.50	23.61	22.41
		4183	836.6	24.50	23.50	23.50	22.31
		4233	846.6	24.50	23.50	23.48	22.28

HSDPA

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.50	22.50	22.64	21.35
		4183	836.6	23.50	22.50	22.47	21.23
		4233	846.6	23.50	22.50	22.48	21.24
	Subtest 2	4132	826.4	23.50	22.50	22.63	21.31
		4183	836.6	23.50	22.50	22.47	21.22
		4233	846.6	23.50	22.50	22.47	21.23
	Subtest 3	4132	826.4	23.00	22.50	22.11	20.82
		4183	836.6	23.00	22.50	21.97	20.74
		4233	846.6	23.00	22.50	21.97	20.75
	Subtest 4	4132	826.4	23.00	22.50	22.12	20.81
		4183	836.6	23.00	22.50	21.97	20.75
		4233	846.6	23.00	22.50	21.97	20.75

DC-HSDPA

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.50	22.50	22.63	21.31
		4183	836.6	23.50	22.50	22.48	21.23
		4233	846.6	23.50	22.50	22.49	21.25
	Subtest 2	4132	826.4	23.50	22.50	22.63	21.31
		4183	836.6	23.50	22.50	22.47	21.25
		4233	846.6	23.50	22.50	22.49	21.26
	Subtest 3	4132	826.4	23.00	22.50	22.13	20.84
		4183	836.6	23.00	22.50	21.97	20.77
		4233	846.6	23.00	22.50	21.98	20.77
	Subtest 4	4132	826.4	23.00	22.50	22.13	20.85
		4183	836.6	23.00	22.50	21.99	20.76
		4233	846.6	23.00	22.50	21.98	20.77

HSUPA

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
WCDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.50	22.50	22.61	21.16
		4183	836.6	23.50	22.50	22.48	21.07
		4233	846.6	23.50	22.50	22.49	20.99
	Subtest 2	4132	826.4	21.50	21.50	20.63	20.83
		4183	836.6	21.50	21.50	20.49	20.79
		4233	846.6	21.50	21.50	20.47	20.76
	Subtest 3	4132	826.4	22.50	22.50	21.46	21.41
		4183	836.6	22.50	22.50	21.47	21.34
		4233	846.6	22.50	22.50	21.47	21.35
	Subtest 4	4132	826.4	21.50	21.50	20.63	21.40
		4183	836.6	21.50	21.50	20.49	21.34
		4233	846.6	21.50	21.50	20.48	21.32
	Subtest 5	4132	826.4	23.50	22.50	22.62	21.41
		4183	836.6	23.50	22.50	22.49	21.34
		4233	846.6	23.50	22.50	22.48	21.34

HSPA+

Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
				Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	24.50	23.50	23.49	22.43
		4183	836.6	24.50	23.50	23.40	22.35
		4233	846.6	24.50	23.50	23.42	22.36

LTE

For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead.

Band 2 Full

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18700	18900	19100
						Freq(MHz)		
						1860	1880	1900
20	QPSK	1	0	0	24.0	22.64	22.69	22.73
		1	49	0	24.0	22.67	22.68	22.69
		1	99	0	24.0	22.86	22.61	22.68
		50	0	1	23.0	21.74	21.73	21.80
		50	24	1	23.0	21.81	21.75	21.83
		50	50	1	23.0	21.85	21.84	21.73
		100	0	1	23.0	21.84	21.75	21.83
	16QAM	1	0	1	23.0	21.99	21.85	22.01
		1	49	1	23.0	22.11	22.12	21.89
		1	99	1	23.0	21.70	22.03	21.83
		50	0	2	22.0	20.75	20.73	20.73
		50	24	2	22.0	20.88	20.75	20.81
		50	50	2	22.0	20.84	20.84	20.80
		100	0	2	22.0	20.84	20.73	20.82
	64QAM	1	0	2	22.0	21.02	20.87	21.19
		1	49	2	22.0	21.25	20.82	20.67
		1	99	2	22.0	20.99	21.22	20.72
		50	0	3	21.0	19.78	19.77	19.82
		50	24	3	21.0	19.88	19.79	19.86
		50	50	3	21.0	19.88	19.93	19.82
		100	0	3	21.0	19.87	19.77	19.86
	256QAM	1	0	5	19.0	18.06	17.97	18.04
		1	49	5	19.0	17.94	18.23	18.34
		1	99	5	19.0	17.80	18.03	17.87
		50	0	5	19.0	17.76	17.77	17.72
		50	24	5	19.0	17.92	17.83	17.87
		50	50	5	19.0	17.86	17.88	17.84
		100	0	5	19.0	17.89	17.79	17.86

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18675	18900	19125
						Freq(MHz)		
						1857.5	1880	1902.5
15	QPSK	1	0	0	24.0	22.68	22.77	22.80
		1	37	0	24.0	22.72	22.72	22.66
		1	74	0	24.0	22.69	22.82	22.59
		36	0	1	23.0	21.75	21.75	21.78
		36	19	1	23.0	21.83	21.79	21.77
		36	39	1	23.0	21.84	21.84	21.87
		75	0	1	23.0	21.82	21.81	21.79
	16QAM	1	0	1	23.0	22.12	22.13	22.17
		1	37	1	23.0	22.05	21.90	21.84
		1	74	1	23.0	21.99	22.07	21.81
		36	0	2	22.0	20.82	20.75	20.75
		36	19	2	22.0	20.83	20.76	20.78
		36	39	2	22.0	20.90	20.88	20.87
		75	0	2	22.0	20.86	20.81	20.80
	64QAM	1	0	2	22.0	21.08	20.98	20.80
		1	37	2	22.0	21.04	20.94	21.04
		1	74	2	22.0	20.89	20.90	21.01
		36	0	3	21.0	19.81	19.78	19.79
		36	19	3	21.0	19.90	19.80	19.79
		36	39	3	21.0	19.91	19.95	19.85
		75	0	3	21.0	19.93	19.80	19.84
	256QAM	1	0	5	19.0	17.87	17.96	18.15
		1	37	5	19.0	17.80	18.03	17.76
		1	74	5	19.0	18.19	18.10	18.04
		36	0	5	19.0	17.81	17.77	17.83
		36	19	5	19.0	17.94	17.84	17.83
		36	39	5	19.0	17.96	17.94	17.89
		75	0	5	19.0	17.90	17.85	17.82

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18650	18900	19150
						Freq(MHz)		
						1855	1880	1905
10	QPSK	1	0	0	24.0	22.78	22.63	22.69
		1	24	0	24.0	22.68	22.61	22.66
		1	49	0	24.0	22.85	22.76	22.68
		25	0	1	23.0	21.83	21.80	21.81
		25	12	1	23.0	21.82	21.79	21.82
		25	25	1	23.0	21.84	21.84	21.76
		50	0	1	23.0	21.82	21.80	21.79
	16QAM	1	0	1	23.0	22.14	22.06	22.18
		1	24	1	23.0	21.99	21.66	22.23
		1	49	1	23.0	22.23	21.82	21.72
		25	0	2	22.0	20.86	20.72	20.80
		25	12	2	22.0	20.88	20.80	20.83
		25	25	2	22.0	20.84	20.84	20.87
		50	0	2	22.0	20.89	20.75	20.81
	64QAM	1	0	2	22.0	20.99	20.97	20.88
		1	24	2	22.0	20.72	20.98	20.85
		1	49	2	22.0	20.75	21.00	20.91
		25	0	3	21.0	19.89	19.79	19.79
		25	12	3	21.0	19.94	19.82	19.88
		25	25	3	21.0	19.88	19.90	19.93
		50	0	3	21.0	19.82	19.79	19.82
	256QAM	1	0	5	19.0	18.00	17.91	17.93
		1	24	5	19.0	18.00	17.95	17.77
		1	49	5	19.0	18.17	18.16	17.93
		25	0	5	19.0	17.88	17.77	17.78
		25	12	5	19.0	17.90	17.76	17.81
		25	25	5	19.0	17.88	17.90	17.86
		50	0	5	19.0	17.92	17.81	17.84

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18625	18900	19175
						Freq(MHz)		
						1852.5	1880	1907.5
5	QPSK	1	0	0	24.0	22.72	22.81	22.72
		1	12	0	24.0	22.74	22.65	22.67
		1	24	0	24.0	22.76	22.77	22.70
		12	0	1	23.0	21.83	21.83	21.85
		12	6	1	23.0	21.88	21.86	21.87
		12	13	1	23.0	21.87	21.95	21.86
		25	0	1	23.0	21.82	21.87	21.86
	16QAM	1	0	1	23.0	21.83	21.89	22.03
		1	12	1	23.0	22.04	22.01	21.91
		1	24	1	23.0	22.03	22.07	21.64
		12	0	2	22.0	20.93	20.83	20.89
		12	6	2	22.0	20.97	20.86	21.00
		12	13	2	22.0	20.90	21.02	20.90
		25	0	2	22.0	20.90	20.90	20.89
	64QAM	1	0	2	22.0	21.07	20.99	20.84
		1	12	2	22.0	21.09	21.11	21.02
		1	24	2	22.0	20.98	21.25	20.98
		12	0	3	21.0	19.89	19.81	19.94
		12	6	3	21.0	19.99	19.79	19.91
		12	13	3	21.0	19.87	19.85	19.92
		25	0	3	21.0	19.89	19.87	19.87
	256QAM	1	0	5	19.0	18.12	17.76	17.90
		1	12	5	19.0	18.05	18.00	18.15
		1	24	5	19.0	17.89	17.75	17.91
		12	0	5	19.0	17.90	17.88	17.91
		12	6	5	19.0	17.90	17.90	17.94
		12	13	5	19.0	17.93	17.97	17.80
		25	0	5	19.0	17.99	17.87	17.85

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18615	18900	19185
						Freq(MHz)		
						1851.5	1880	1908.5
3	QPSK	1	0	0	24.0	22.74	22.69	22.67
		1	7	0	24.0	22.83	22.82	22.62
		1	14	0	24.0	22.77	22.84	22.71
		8	0	1	23.0	21.87	21.85	21.82
		8	4	1	23.0	21.89	21.96	21.90
		8	7	1	23.0	21.86	21.91	21.84
		15	0	1	23.0	21.85	21.91	21.83
	16QAM	1	0	1	23.0	22.03	21.92	21.78
		1	7	1	23.0	21.89	21.93	22.07
		1	14	1	23.0	22.11	22.21	21.80
		8	0	2	22.0	20.97	20.93	20.88
		8	4	2	22.0	20.99	20.99	20.88
		8	7	2	22.0	20.96	21.03	20.91
		15	0	2	22.0	20.99	20.82	20.85
	64QAM	1	0	2	22.0	21.00	20.83	21.02
		1	7	2	22.0	21.15	21.13	21.28
		1	14	2	22.0	21.16	21.00	21.01
		8	0	3	21.0	19.93	19.96	19.78
		8	4	3	21.0	19.95	20.09	20.01
		8	7	3	21.0	19.95	20.10	19.90
		15	0	3	21.0	19.97	19.89	19.91
	256QAM	1	0	5	19.0	18.10	17.89	17.66
		1	7	5	19.0	18.01	17.99	17.99
		1	14	5	19.0	17.90	17.90	17.46
		8	0	5	19.0	17.87	17.86	17.85
		8	4	5	19.0	17.93	18.05	17.94
		8	7	5	19.0	17.91	17.93	17.87
		15	0	5	19.0	17.96	17.83	17.87

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18607	18900	19193
						Freq(MHz)		
						1850.7	1880	1909.3
1.4	QPSK	1	0	0	24.0	22.80	22.79	22.73
		1	2	0	24.0	22.72	22.73	22.59
		1	5	0	24.0	22.84	22.59	22.54
		3	0	0	24.0	22.72	22.64	22.52
		3	1	0	24.0	22.78	22.66	22.59
		3	3	0	24.0	22.69	22.61	22.49
		6	0	1	23.0	21.80	21.79	21.66
	16QAM	1	0	1	23.0	22.00	22.24	21.94
		1	2	1	23.0	22.14	22.36	21.94
		1	5	1	23.0	21.85	21.73	21.74
		3	0	1	23.0	21.86	21.80	21.72
		3	1	1	23.0	22.05	21.90	21.75
		3	3	1	23.0	21.94	21.82	21.76
		6	0	2	22.0	20.88	20.94	20.80
	64QAM	1	0	2	22.0	21.36	21.01	21.03
		1	2	2	22.0	21.15	21.24	20.95
		1	5	2	22.0	21.15	21.25	21.07
		3	0	2	22.0	21.00	20.89	20.79
		3	1	2	22.0	20.94	20.82	20.93
		3	3	2	22.0	21.00	21.00	20.86
		6	0	3	21.0	19.95	19.89	19.70
	256QAM	1	0	5	19.0	18.28	17.86	17.88
		1	2	5	19.0	18.16	17.92	18.03
		1	5	5	19.0	18.03	17.66	17.52
		3	0	5	19.0	17.98	17.83	17.62
		3	1	5	19.0	18.04	17.99	17.89
		3	3	5	19.0	17.96	17.84	17.81
		6	0	5	19.0	18.03	17.83	17.76

Band 2 Red

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18700	18900	19100
						Freq(MHz)		
						1860	1880	1900
20	QPSK	1	0	-	17.5	16.27	16.29	16.14
		1	49	-	17.5	16.35	16.26	16.18
		1	99	-	17.5	16.39	16.23	16.19
		50	0	-	17.5	16.39	16.31	16.31
		50	24	-	17.5	16.49	16.38	16.34
		50	50	-	17.5	16.47	16.45	16.40
		100	0	-	17.5	16.38	16.28	16.18
	16QAM	1	0	-	17.5	16.66	16.78	16.61
		1	49	-	17.5	16.52	16.42	16.60
		1	99	-	17.5	16.65	16.66	16.68
		50	0	-	17.5	16.45	16.32	16.27
		50	24	-	17.5	16.51	16.34	16.34
		50	50	-	17.5	16.50	16.44	16.42
		100	0	-	17.5	16.52	16.31	16.35
	64QAM	1	0	-	17.5	16.67	16.67	16.62
		1	49	-	17.5	16.59	16.36	16.62
		1	99	-	17.5	16.45	16.58	16.47
		50	0	-	17.5	16.46	16.35	16.34
		50	24	-	17.5	16.52	16.39	16.34
		50	50	-	17.5	16.47	16.42	16.42
		100	0	-	17.5	16.46	16.33	16.27
	256QAM	1	0	-	17.5	16.40	16.29	16.50
		1	49	-	17.5	16.59	16.54	16.44
		1	99	-	17.5	16.49	16.56	16.24
		50	0	-	17.5	16.40	16.32	16.31
		50	24	-	17.5	16.51	16.37	16.39
		50	50	-	17.5	16.45	16.43	16.44
		100	0	-	17.5	16.47	16.37	16.37

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18675	18900	19125
						Freq(MHz)		
						1857.5	1880	1902.5
15	QPSK	1	0	-	17.5	16.00	15.92	15.85
		1	37	-	17.5	15.86	15.82	15.75
		1	74	-	17.5	16.10	15.94	15.69
		36	0	-	17.5	16.14	15.98	15.96
		36	19	-	17.5	16.13	16.05	15.95
		36	39	-	17.5	16.15	16.12	16.05
		75	0	-	17.5	16.10	15.94	15.75
	16QAM	1	0	-	17.5	16.02	16.25	16.24
		1	37	-	17.5	16.31	16.19	16.21
		1	74	-	17.5	16.40	16.03	16.06
		36	0	-	17.5	16.17	16.01	15.96
		36	19	-	17.5	16.14	16.05	15.99
		36	39	-	17.5	16.21	16.17	16.10
		75	0	-	17.5	16.15	16.02	15.99
	64QAM	1	0	-	17.5	16.12	15.98	16.30
		1	37	-	17.5	16.17	16.12	16.11
		1	74	-	17.5	16.04	16.23	15.92
		36	0	-	17.5	16.18	15.99	15.98
		36	19	-	17.5	16.20	16.10	15.99
		36	39	-	17.5	16.22	16.14	16.12
		75	0	-	17.5	16.19	16.07	16.00
	256QAM	1	0	-	17.5	16.08	16.13	16.31
		1	37	-	17.5	16.31	16.23	16.25
		1	74	-	17.5	16.14	16.26	16.10
		36	0	-	17.5	16.23	15.98	15.98
		36	19	-	17.5	16.22	16.10	15.98
		36	39	-	17.5	16.16	16.15	16.09
		75	0	-	17.5	16.20	16.03	16.00

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18650	18900	19150
						Freq(MHz)		
						1855	1880	1905
10	QPSK	1	0	-	17.5	15.93	15.79	15.72
		1	24	-	17.5	15.78	15.77	15.58
		1	49	-	17.5	15.87	15.78	15.66
		25	0	-	17.5	16.01	15.83	15.79
		25	12	-	17.5	16.03	15.90	15.91
		25	25	-	17.5	16.04	15.97	15.89
		50	0	-	17.5	15.77	15.78	15.71
	16QAM	1	0	-	17.5	16.14	15.93	15.77
		1	24	-	17.5	16.15	15.81	15.99
		1	49	-	17.5	15.94	15.93	15.87
		25	0	-	17.5	15.99	15.85	15.72
		25	12	-	17.5	16.01	15.86	15.89
		25	25	-	17.5	15.98	15.97	15.80
		50	0	-	17.5	16.01	15.84	15.79
	64QAM	1	0	-	17.5	16.13	16.19	16.05
		1	24	-	17.5	16.08	15.91	16.00
		1	49	-	17.5	16.19	16.21	15.88
		25	0	-	17.5	15.99	15.84	15.84
		25	12	-	17.5	16.06	15.95	16.00
		25	25	-	17.5	16.07	15.98	15.96
		50	0	-	17.5	15.97	15.90	15.82
	256QAM	1	0	-	17.5	16.10	16.13	15.86
		1	24	-	17.5	16.11	16.20	16.06
		1	49	-	17.5	16.06	16.11	16.04
		25	0	-	17.5	15.93	15.88	15.81
		25	12	-	17.5	15.97	15.89	15.90
		25	25	-	17.5	15.97	15.98	15.87
		50	0	-	17.5	16.03	15.85	15.85

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18625	18900	19175
						Freq(MHz)		
						1852.5	1880	1907.5
5	QPSK	1	0	-	17.5	15.90	15.80	15.75
		1	12	-	17.5	15.94	15.95	15.76
		1	24	-	17.5	15.93	15.88	15.78
		12	0	-	17.5	16.02	15.93	15.86
		12	6	-	17.5	16.09	16.01	15.90
		12	13	-	17.5	16.05	15.98	15.91
		25	0	-	17.5	15.92	15.95	15.74
	16QAM	1	0	-	17.5	16.12	15.89	15.75
		1	12	-	17.5	16.38	16.00	16.12
		1	24	-	17.5	16.31	16.33	16.14
		12	0	-	17.5	16.02	15.93	15.95
		12	6	-	17.5	16.12	16.06	15.93
		12	13	-	17.5	16.06	16.06	15.92
		25	0	-	17.5	16.10	15.98	15.89
	64QAM	1	0	-	17.5	16.09	16.24	16.18
		1	12	-	17.5	16.31	16.13	15.90
		1	24	-	17.5	16.29	16.20	16.03
		12	0	-	17.5	16.05	15.95	15.90
		12	6	-	17.5	16.16	15.99	16.01
		12	13	-	17.5	16.14	16.03	15.83
		25	0	-	17.5	16.02	15.92	15.91
	256QAM	1	0	-	17.5	15.83	16.02	15.90
		1	12	-	17.5	15.90	15.84	15.88
		1	24	-	17.5	15.96	16.23	16.16
		12	0	-	17.5	16.05	16.02	15.86
		12	6	-	17.5	16.15	16.06	15.94
		12	13	-	17.5	16.03	16.09	15.97
		25	0	-	17.5	16.08	15.92	15.94

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18615	18900	19185
						Freq(MHz)		
						1851.5	1880	1908.5
3	QPSK	1	0	-	17.5	15.94	15.83	15.73
		1	7	-	17.5	15.92	15.90	15.80
		1	14	-	17.5	16.00	15.98	15.78
		8	0	-	17.5	16.02	15.97	15.88
		8	4	-	17.5	16.05	16.01	15.90
		8	7	-	17.5	16.06	16.04	15.89
		15	0	-	17.5	15.91	15.88	15.77
	16QAM	1	0	-	17.5	16.09	15.84	16.10
		1	7	-	17.5	16.31	16.26	15.74
		1	14	-	17.5	16.15	16.32	16.13
		8	0	-	17.5	16.09	15.98	15.96
		8	4	-	17.5	16.12	16.04	15.94
		8	7	-	17.5	16.12	16.04	15.92
		15	0	-	17.5	16.08	15.99	15.88
	64QAM	1	0	-	17.5	16.11	16.29	15.90
		1	7	-	17.5	16.41	16.05	16.16
		1	14	-	17.5	16.20	16.18	16.22
		8	0	-	17.5	16.12	16.10	15.94
		8	4	-	17.5	16.06	16.07	15.95
		8	7	-	17.5	16.05	15.99	15.96
		15	0	-	17.5	16.16	16.07	15.97
	256QAM	1	0	-	17.5	16.01	16.23	16.01
		1	7	-	17.5	16.35	16.19	15.80
		1	14	-	17.5	16.22	16.12	16.04
		8	0	-	17.5	16.10	16.03	15.77
		8	4	-	17.5	16.18	16.05	15.88
		8	7	-	17.5	16.06	16.02	15.88
		15	0	-	17.5	16.11	16.09	15.92

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18607	18900	19193
						Freq(MHz)		
						1850.7	1880	1909.3
1.4	QPSK	1	0	-	17.5	16.23	16.10	15.89
		1	2	-	17.5	16.21	16.06	15.86
		1	5	-	17.5	16.22	16.07	15.87
		3	0	-	17.5	16.15	16.02	15.85
		3	1	-	17.5	16.22	16.07	15.89
		3	3	-	17.5	16.18	16.03	15.83
		6	0	-	17.5	16.22	16.07	15.83
	16QAM	1	0	-	17.5	16.35	16.22	16.24
		1	2	-	17.5	16.31	16.34	16.34
		1	5	-	17.5	16.48	16.49	16.36
		3	0	-	17.5	16.29	16.28	16.03
		3	1	-	17.5	16.59	16.35	16.04
		3	3	-	17.5	16.36	16.30	16.03
		6	0	-	17.5	16.32	16.16	15.98
	64QAM	1	0	-	17.5	16.36	16.23	16.01
		1	2	-	17.5	16.34	16.49	16.32
		1	5	-	17.5	16.49	16.36	16.34
		3	0	-	17.5	16.32	16.09	15.96
		3	1	-	17.5	16.40	16.28	16.09
		3	3	-	17.5	16.52	16.16	16.04
		6	0	-	17.5	16.39	16.19	15.94
	256QAM	1	0	-	17.5	16.31	16.39	16.22
		1	2	-	17.5	16.34	16.10	16.28
		1	5	-	17.5	16.27	16.26	15.87
		3	0	-	17.5	16.39	16.35	16.21
		3	1	-	17.5	16.55	16.33	16.00
		3	3	-	17.5	16.43	16.11	16.07
		6	0	-	17.5	16.33	16.20	16.01

Band 4 Full

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	20175	-
						Freq(MHz)		
						-	1732.5	-
20	QPSK	1	0	0	24.0	-	22.87	-
		1	49	0	24.0	-	22.76	-
		1	99	0	24.0	-	22.80	-
		50	0	1	23.0	-	21.88	-
		50	24	1	23.0	-	21.84	-
		50	50	1	23.0	-	21.86	-
		100	0	1	23.0	-	21.83	-
	16QAM	1	0	1	23.0	-	22.09	-
		1	49	1	23.0	-	22.14	-
		1	99	1	23.0	-	22.35	-
		50	0	2	22.0	-	20.91	-
		50	24	2	22.0	-	20.81	-
		50	50	2	22.0	-	20.86	-
		100	0	2	22.0	-	20.91	-
	64QAM	1	0	2	22.0	-	20.86	-
		1	49	2	22.0	-	20.87	-
		1	99	2	22.0	-	20.83	-
		50	0	3	21.0	-	19.88	-
		50	24	3	21.0	-	19.91	-
		50	50	3	21.0	-	19.88	-
		100	0	3	21.0	-	19.92	-
	256QAM	1	0	5	19.0	-	18.49	-
		1	49	5	19.0	-	18.01	-
		1	99	5	19.0	-	17.96	-
		50	0	5	19.0	-	17.88	-
		50	24	5	19.0	-	17.88	-
		50	50	5	19.0	-	17.89	-
		100	0	5	19.0	-	17.92	-

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20025	20175	20325
						Freq(MHz)		
						1717.5	1732.5	1747.5
15	QPSK	1	0	0	24.0	22.72	22.86	22.85
		1	37	0	24.0	22.63	22.68	22.76
		1	74	0	24.0	22.65	22.74	22.72
		36	0	1	23.0	21.80	21.87	21.92
		36	19	1	23.0	21.82	21.86	21.94
		36	39	1	23.0	21.81	21.85	21.91
		75	0	1	23.0	21.80	21.40	21.86
	16QAM	1	0	1	23.0	22.14	21.95	21.99
		1	37	1	23.0	21.93	21.74	21.87
		1	74	1	23.0	21.68	21.92	21.87
		36	0	2	22.0	20.81	20.89	20.99
		36	19	2	22.0	20.86	20.88	20.99
		36	39	2	22.0	20.81	20.83	20.93
		75	0	2	22.0	20.87	20.91	20.89
	64QAM	1	0	2	22.0	21.04	20.96	21.09
		1	37	2	22.0	20.87	20.83	20.81
		1	74	2	22.0	20.71	21.03	20.98
		36	0	3	21.0	19.82	19.90	19.97
		36	19	3	21.0	19.83	19.93	20.00
		36	39	3	21.0	19.81	19.93	19.95
		75	0	3	21.0	19.89	19.93	19.92
	256QAM	1	0	5	19.0	17.98	18.07	18.00
		1	37	5	19.0	18.03	17.98	17.94
		1	74	5	19.0	18.05	17.97	18.15
		36	0	5	19.0	17.84	17.91	17.89
		36	19	5	19.0	17.88	17.88	17.95
		36	39	5	19.0	17.84	17.84	17.94
		75	0	5	19.0	17.89	17.91	17.94

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20000	20175	20350
						Freq(MHz)		
						1715	1732.5	1750
10	QPSK	1	0	0	24.0	22.69	22.77	22.83
		1	24	0	24.0	22.61	22.83	22.84
		1	49	0	24.0	22.74	22.76	22.82
		25	0	1	23.0	21.81	21.80	21.89
		25	12	1	23.0	21.83	21.83	21.93
		25	25	1	23.0	21.87	21.92	22.00
		50	0	1	23.0	21.83	21.90	21.92
	16QAM	1	0	1	23.0	21.87	21.72	22.04
		1	24	1	23.0	21.71	22.06	22.27
		1	49	1	23.0	22.00	22.10	22.15
		25	0	2	22.0	20.84	20.81	20.91
		25	12	2	22.0	20.84	20.83	20.94
		25	25	2	22.0	20.88	20.97	21.02
		50	0	2	22.0	20.84	20.90	20.87
	64QAM	1	0	2	22.0	20.93	20.82	21.26
		1	24	2	22.0	21.03	21.06	21.03
		1	49	2	22.0	20.96	20.81	21.13
		25	0	3	21.0	19.81	19.92	19.94
		25	12	3	21.0	19.95	19.92	19.98
		25	25	3	21.0	19.85	19.97	20.05
		50	0	3	21.0	19.86	19.93	19.94
	256QAM	1	0	5	19.0	17.85	17.87	18.25
		1	24	5	19.0	17.79	17.89	18.28
		1	49	5	19.0	17.95	18.09	18.28
		25	0	5	19.0	17.87	17.86	17.93
		25	12	5	19.0	17.89	17.83	17.96
		25	25	5	19.0	17.93	17.90	17.98
		50	0	5	19.0	17.88	17.96	17.93

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19975	20175	20375
						Freq(MHz)		
						1712.5	1732.5	1752.5
5	QPSK	1	0	0	24.0	22.72	22.74	22.82
		1	12	0	24.0	22.71	22.72	22.79
		1	24	0	24.0	22.70	22.85	22.86
		12	0	1	23.0	21.84	21.83	21.94
		12	6	1	23.0	21.83	21.85	21.96
		12	13	1	23.0	21.80	21.92	21.97
		25	0	1	23.0	21.80	21.88	21.93
	16QAM	1	0	1	23.0	21.87	22.06	21.83
		1	12	1	23.0	21.85	22.01	21.88
		1	24	1	23.0	21.93	21.90	22.03
		12	0	2	22.0	20.95	20.83	21.00
		12	6	2	22.0	20.93	20.88	21.05
		12	13	2	22.0	20.94	20.97	21.05
		25	0	2	22.0	20.83	20.91	20.96
	64QAM	1	0	2	22.0	21.04	21.04	21.03
		1	12	2	22.0	21.04	21.13	21.08
		1	24	2	22.0	20.89	21.23	21.35
		12	0	3	21.0	19.89	19.85	19.95
		12	6	3	21.0	19.94	19.94	20.06
		12	13	3	21.0	19.91	20.01	19.99
		25	0	3	21.0	19.90	19.98	20.04
	256QAM	1	0	5	19.0	18.00	17.89	18.01
		1	12	5	19.0	18.10	18.20	18.13
		1	24	5	19.0	18.24	18.03	18.18
		12	0	5	19.0	17.85	17.90	17.93
		12	6	5	19.0	17.97	17.94	18.08
		12	13	5	19.0	17.88	17.98	18.06
		25	0	5	19.0	17.84	17.94	17.99

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19965	20175	20385
						Freq(MHz)		
						1711.5	1732.5	1753.5
3	QPSK	1	0	0	24.0	22.77	22.66	22.81
		1	7	0	24.0	22.65	22.74	22.82
		1	14	0	24.0	22.79	22.85	22.86
		8	0	1	23.0	21.83	21.81	21.94
		8	4	1	23.0	21.86	21.85	21.97
		8	7	1	23.0	21.81	21.91	21.95
		15	0	1	23.0	21.85	21.86	21.91
	16QAM	1	0	1	23.0	21.92	22.04	22.22
		1	7	1	23.0	21.80	22.02	22.15
		1	14	1	23.0	21.78	22.16	22.17
		8	0	2	22.0	20.85	20.93	21.04
		8	4	2	22.0	20.90	20.84	21.07
		8	7	2	22.0	20.86	20.95	21.01
		15	0	2	22.0	20.88	20.91	21.11
	64QAM	1	0	2	22.0	20.93	21.14	21.15
		1	7	2	22.0	21.13	20.92	21.18
		1	14	2	22.0	20.98	21.12	21.03
		8	0	3	21.0	19.78	19.83	19.92
		8	4	3	21.0	19.86	20.01	20.07
		8	7	3	21.0	19.87	19.98	20.07
		15	0	3	21.0	19.82	19.95	20.00
	256QAM	1	0	5	19.0	18.01	17.77	18.11
		1	7	5	19.0	17.90	17.90	18.11
		1	14	5	19.0	18.10	18.32	17.88
		8	0	5	19.0	17.88	17.90	17.93
		8	4	5	19.0	17.92	17.98	18.00
		8	7	5	19.0	17.88	17.98	18.07
		15	0	5	19.0	17.91	18.02	18.01

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19957	20175	20393
						Freq(MHz)		
						1710.7	1732.5	1754.3
1.4	QPSK	1	0	0	24.0	22.69	22.71	22.78
		1	2	0	24.0	22.84	22.85	22.86
		1	5	0	24.0	22.63	22.70	22.75
		3	0	0	24.0	22.62	22.63	22.67
		3	1	0	24.0	22.69	22.73	22.75
		3	3	0	24.0	22.63	22.72	22.72
		6	0	1	23.0	21.64	21.68	21.76
	16QAM	1	0	1	23.0	22.05	22.11	22.24
		1	2	1	23.0	22.09	22.17	22.21
		1	5	1	23.0	22.34	22.17	22.07
		3	0	1	23.0	21.75	21.73	21.97
		3	1	1	23.0	21.84	21.93	21.99
		3	3	1	23.0	21.79	21.80	21.95
		6	0	2	22.0	20.74	20.89	20.84
	64QAM	1	0	2	22.0	20.52	20.64	20.79
		1	2	2	22.0	20.95	20.80	21.20
		1	5	2	22.0	20.48	20.53	20.57
		3	0	2	22.0	20.96	20.89	20.91
		3	1	2	22.0	20.97	20.95	21.03
		3	3	2	22.0	20.84	20.87	20.97
		6	0	3	21.0	19.85	19.87	19.78
	256QAM	1	0	5	19.0	18.33	18.26	18.17
		1	2	5	19.0	17.96	18.12	18.30
		1	5	5	19.0	17.58	17.81	17.68
		3	0	5	19.0	17.97	17.91	18.07
		3	1	5	19.0	18.01	18.00	18.15
		3	3	5	19.0	18.01	17.98	17.99
		6	0	5	19.0	17.78	17.85	17.93

Band 4 Red

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	20175	-
						Freq(MHz)		
						-	1732.5	-
20	QPSK	1	0	-	18.0	-	16.80	-
		1	49	-	18.0	-	16.68	-
		1	99	-	18.0	-	16.65	-
		50	0	-	18.0	-	16.85	-
		50	24	-	18.0	-	16.90	-
		50	50	-	18.0	-	16.84	-
		100	0	-	18.0	-	16.68	-
	16QAM	1	0	-	18.0	-	17.06	-
		1	49	-	18.0	-	17.10	-
		1	99	-	18.0	-	16.85	-
		50	0	-	18.0	-	16.87	-
		50	24	-	18.0	-	16.90	-
		50	50	-	18.0	-	16.86	-
		100	0	-	18.0	-	16.93	-
	64QAM	1	0	-	18.0	-	16.84	-
		1	49	-	18.0	-	16.93	-
		1	99	-	18.0	-	17.00	-
		50	0	-	18.0	-	16.91	-
		50	24	-	18.0	-	16.94	-
		50	50	-	18.0	-	16.90	-
		100	0	-	18.0	-	16.91	-
	256QAM	1	0	-	18.0	-	17.01	-
		1	49	-	18.0	-	16.92	-
		1	99	-	18.0	-	16.96	-
		50	0	-	18.0	-	16.90	-
		50	24	-	18.0	-	16.92	-
		50	50	-	18.0	-	16.91	-
		100	0	-	18.0	-	16.96	-

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20025	20175	20325
						Freq(MHz)		
						1717.5	1732.5	1747.5
15	QPSK	1	0	-	18.0	16.60	16.79	16.78
		1	37	-	18.0	16.52	16.56	16.67
		1	74	-	18.0	16.53	16.67	16.66
		36	0	-	18.0	16.69	16.75	16.80
		36	19	-	18.0	16.70	16.77	16.84
		36	39	-	18.0	16.71	16.76	16.83
		75	0	-	18.0	16.60	16.76	16.78
	16QAM	1	0	-	18.0	16.80	17.27	17.10
		1	37	-	18.0	16.72	16.90	16.92
		1	74	-	18.0	16.97	17.05	16.79
		36	0	-	18.0	16.71	16.78	16.85
		36	19	-	18.0	16.68	16.81	16.90
		36	39	-	18.0	16.77	16.79	16.89
		75	0	-	18.0	16.78	16.80	16.84
	64QAM	1	0	-	18.0	16.73	17.05	17.14
		1	37	-	18.0	16.65	16.71	16.92
		1	74	-	18.0	16.63	16.96	16.92
		36	0	-	18.0	16.73	16.85	16.85
		36	19	-	18.0	16.74	16.88	16.89
		36	39	-	18.0	16.73	16.78	16.91
		75	0	-	18.0	16.73	16.81	16.80
	256QAM	1	0	-	18.0	16.79	16.80	17.02
		1	37	-	18.0	16.59	16.64	16.79
		1	74	-	18.0	16.86	16.75	16.87
		36	0	-	18.0	16.72	16.81	16.87
		36	19	-	18.0	16.81	16.86	16.85
		36	39	-	18.0	16.73	16.81	16.83
		75	0	-	18.0	16.73	16.83	16.84

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20000	20175	20350
						Freq(MHz)		
						1715	1732.5	1750
10	QPSK	1	0	-	18.0	16.52	16.60	16.70
		1	24	-	18.0	16.53	16.62	16.63
		1	49	-	18.0	16.54	16.69	16.62
		25	0	-	18.0	16.70	16.66	16.77
		25	12	-	18.0	16.73	16.78	16.83
		25	25	-	18.0	16.74	16.79	16.88
		50	0	-	18.0	16.53	16.68	16.69
	16QAM	1	0	-	18.0	16.74	16.93	17.11
		1	24	-	18.0	16.76	17.12	17.10
		1	49	-	18.0	17.01	16.99	16.98
		25	0	-	18.0	16.71	16.75	16.77
		25	12	-	18.0	16.71	16.81	16.86
		25	25	-	18.0	16.78	16.77	16.95
		50	0	-	18.0	16.75	16.78	16.83
	64QAM	1	0	-	18.0	16.72	16.89	17.10
		1	24	-	18.0	16.84	16.76	17.12
		1	49	-	18.0	16.80	16.79	16.93
		25	0	-	18.0	16.73	16.74	16.81
		25	12	-	18.0	16.80	16.82	16.90
		25	25	-	18.0	16.74	16.83	16.97
		50	0	-	18.0	16.76	16.80	16.86
	256QAM	1	0	-	18.0	16.82	16.72	17.15
		1	24	-	18.0	16.72	16.98	16.91
		1	49	-	18.0	16.95	16.73	16.94
		25	0	-	18.0	16.77	16.70	16.75
		25	12	-	18.0	16.73	16.85	16.81
		25	25	-	18.0	16.72	16.79	16.90
		50	0	-	18.0	16.76	16.78	16.85

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19975	20175	20375
						Freq(MHz)		
						1712.5	1732.5	1752.5
5	QPSK	1	0	-	18.0	16.56	16.53	16.64
		1	12	-	18.0	16.67	16.60	16.78
		1	24	-	18.0	16.64	16.73	16.79
		12	0	-	18.0	16.73	16.74	16.88
		12	6	-	18.0	16.74	16.82	16.87
		12	13	-	18.0	16.72	16.81	16.90
		25	0	-	18.0	16.67	16.72	16.78
	16QAM	1	0	-	18.0	17.03	17.02	16.99
		1	12	-	18.0	16.77	17.03	17.15
		1	24	-	18.0	16.96	17.17	17.22
		12	0	-	18.0	16.79	16.84	17.00
		12	6	-	18.0	16.82	16.77	16.94
		12	13	-	18.0	16.86	16.87	16.97
		25	0	-	18.0	16.75	16.83	16.95
	64QAM	1	0	-	18.0	17.02	16.58	17.11
		1	12	-	18.0	16.79	16.77	17.10
		1	24	-	18.0	16.98	17.02	17.16
		12	0	-	18.0	16.76	16.85	16.87
		12	6	-	18.0	16.89	16.95	16.95
		12	13	-	18.0	16.87	16.83	17.01
		25	0	-	18.0	16.75	16.81	16.91
	256QAM	1	0	-	18.0	16.85	16.69	16.77
		1	12	-	18.0	16.82	16.76	16.99
		1	24	-	18.0	17.13	16.96	16.99
		12	0	-	18.0	16.73	16.67	16.92
		12	6	-	18.0	16.84	16.83	16.97
		12	13	-	18.0	16.77	16.79	16.95
		25	0	-	18.0	16.72	16.82	16.87

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19965	20175	20385
						Freq(MHz)		
						1711.5	1732.5	1753.5
3	QPSK	1	0	-	18.0	16.57	16.55	16.77
		1	7	-	18.0	16.61	16.64	16.76
		1	14	-	18.0	16.67	16.65	16.78
		8	0	-	18.0	16.74	16.71	16.85
		8	4	-	18.0	16.77	16.83	16.89
		8	7	-	18.0	16.73	16.80	16.88
		15	0	-	18.0	16.66	16.64	16.76
	16QAM	1	0	-	18.0	16.89	16.96	17.20
		1	7	-	18.0	16.86	17.10	16.91
		1	14	-	18.0	17.11	16.95	17.28
		8	0	-	18.0	16.89	16.76	16.97
		8	4	-	18.0	16.92	16.86	16.96
		8	7	-	18.0	16.88	16.84	16.97
		15	0	-	18.0	16.79	16.82	16.86
	64QAM	1	0	-	18.0	16.96	17.00	17.10
		1	7	-	18.0	16.96	17.00	16.99
		1	14	-	18.0	16.89	17.13	17.02
		8	0	-	18.0	16.73	16.80	16.97
		8	4	-	18.0	16.90	16.93	17.03
		8	7	-	18.0	16.76	16.96	17.05
		15	0	-	18.0	16.83	16.81	16.90
	256QAM	1	0	-	18.0	16.63	16.77	16.72
		1	7	-	18.0	16.98	16.84	17.10
		1	14	-	18.0	16.75	16.94	16.95
		8	0	-	18.0	16.67	16.80	16.91
		8	4	-	18.0	16.72	16.87	16.79
		8	7	-	18.0	16.79	16.82	16.93
		15	0	-	18.0	16.83	16.85	16.90

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19957	20175	20393
						Freq(MHz)		
						1710.7	1732.5	1754.3
1.4	QPSK	1	0	-	18.0	16.61	16.61	16.76
		1	2	-	18.0	16.58	16.64	16.73
		1	5	-	18.0	16.55	16.62	16.63
		3	0	-	18.0	16.54	16.58	16.68
		3	1	-	18.0	16.59	16.67	16.73
		3	3	-	18.0	16.53	16.64	16.64
		6	0	-	18.0	16.58	16.63	16.72
	16QAM	1	0	-	18.0	16.88	17.07	17.19
		1	2	-	18.0	16.92	17.12	17.18
		1	5	-	18.0	16.94	16.92	17.12
		3	0	-	18.0	16.76	16.78	16.78
		3	1	-	18.0	16.81	16.83	16.93
		3	3	-	18.0	16.91	16.88	16.85
		6	0	-	18.0	16.72	16.73	16.92
	64QAM	1	0	-	18.0	17.03	17.07	17.05
		1	2	-	18.0	16.92	16.97	17.04
		1	5	-	18.0	17.00	17.08	16.90
		3	0	-	18.0	16.81	16.81	16.92
		3	1	-	18.0	16.84	16.82	16.98
		3	3	-	18.0	16.73	16.80	17.06
		6	0	-	18.0	16.69	16.82	16.76
	256QAM	1	0	-	18.0	16.71	16.84	17.02
		1	2	-	18.0	16.93	17.00	17.05
		1	5	-	18.0	16.82	16.73	16.77
		3	0	-	18.0	16.70	16.69	16.87
		3	1	-	18.0	16.82	16.85	16.93
		3	3	-	18.0	16.69	16.80	16.94
		6	0	-	18.0	16.60	16.68	16.86

Band 5 Full

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	20525	-
						Freq(MHz)		
						-	836.5	-
10	QPSK	1	0	0	24.0	-	22.86	-
		1	24	0	24.0	-	22.73	-
		1	49	0	24.0	-	22.70	-
		25	0	1	23.0	-	21.92	-
		25	12	1	23.0	-	21.83	-
		25	25	1	23.0	-	21.84	-
		50	0	1	23.0	-	21.88	-
	16QAM	1	0	1	23.0	-	22.09	-
		1	24	1	23.0	-	22.15	-
		1	49	1	23.0	-	21.93	-
		25	0	2	22.0	-	20.87	-
		25	12	2	22.0	-	20.94	-
		25	25	2	22.0	-	20.84	-
		50	0	2	22.0	-	20.86	-
	64QAM	1	0	2	22.0	-	21.22	-
		1	24	2	22.0	-	21.28	-
		1	49	2	22.0	-	21.22	-
		25	0	3	21.0	-	19.89	-
		25	12	3	21.0	-	19.93	-
		25	25	3	21.0	-	19.87	-
		50	0	3	21.0	-	19.93	-
	256QAM	1	0	5	19.0	-	17.93	-
		1	24	5	19.0	-	17.93	-
		1	49	5	19.0	-	18.14	-
		25	0	5	19.0	-	17.82	-
		25	12	5	19.0	-	17.92	-
		25	25	5	19.0	-	17.79	-
		50	0	5	19.0	-	17.88	-

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20425	20525	20625
						Freq(MHz)		
						826.5	836.5	846.5
5	QPSK	1	0	0	24.0	22.80	22.69	22.68
		1	12	0	24.0	22.76	22.74	22.62
		1	24	0	24.0	22.70	22.62	22.59
		12	0	1	23.0	21.97	21.76	21.74
		12	6	1	23.0	21.93	21.80	21.73
		12	13	1	23.0	21.86	21.72	21.66
		25	0	1	23.0	21.89	21.77	21.68
	16QAM	1	0	1	23.0	22.25	21.96	21.82
		1	12	1	23.0	21.88	21.91	22.27
		1	24	1	23.0	22.02	22.02	22.29
		12	0	2	22.0	20.96	20.80	20.81
		12	6	2	22.0	20.98	20.87	20.76
		12	13	2	22.0	20.93	20.73	20.75
		25	0	2	22.0	20.84	20.79	20.68
	64QAM	1	0	2	22.0	21.22	20.85	20.39
		1	12	2	22.0	20.98	20.84	20.33
		1	24	2	22.0	20.77	20.74	20.27
		12	0	3	21.0	20.00	19.85	19.19
		12	6	3	21.0	19.99	19.85	19.09
		12	13	3	21.0	19.95	19.72	19.06
		25	0	3	21.0	19.91	19.83	19.13
	256QAM	1	0	5	19.0	18.09	17.81	17.94
		1	12	5	19.0	17.95	17.67	18.01
		1	24	5	19.0	17.87	17.95	17.69
		12	0	5	19.0	17.96	17.84	17.73
		12	6	5	19.0	17.93	17.78	17.75
		12	13	5	19.0	17.84	17.77	17.68
		25	0	5	19.0	17.90	17.72	17.68

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20415	20525	20635
						Freq(MHz)		
						825.5	836.5	847.5
3	QPSK	1	0	0	24.0	22.77	22.57	22.44
		1	7	0	24.0	22.72	22.56	22.43
		1	14	0	24.0	22.65	22.48	22.40
		8	0	1	23.0	21.86	21.62	21.62
		8	4	1	23.0	21.89	21.68	21.65
		8	7	1	23.0	21.81	21.61	21.54
		15	0	1	23.0	21.87	21.63	21.59
	16QAM	1	0	1	23.0	22.21	22.08	21.71
		1	7	1	23.0	21.90	22.13	21.98
		1	14	1	23.0	22.09	21.94	22.05
		8	0	2	22.0	21.02	20.75	20.62
		8	4	2	22.0	21.00	20.91	20.70
		8	7	2	22.0	20.91	20.79	20.67
		15	0	2	22.0	20.89	20.70	20.66
	64QAM	1	0	2	22.0	21.02	20.77	20.32
		1	7	2	22.0	20.78	20.84	20.19
		1	14	2	22.0	21.18	20.91	20.45
		8	0	3	21.0	19.89	19.71	19.01
		8	4	3	21.0	19.96	19.69	19.10
		8	7	3	21.0	19.82	19.61	19.19
		15	0	3	21.0	19.84	19.67	19.10
	256QAM	1	0	5	19.0	17.88	17.62	17.58
		1	7	5	19.0	18.09	17.88	17.56
		1	14	5	19.0	17.85	17.72	17.85
		8	0	5	19.0	17.91	17.68	17.67
		8	4	5	19.0	17.84	17.68	17.72
		8	7	5	19.0	17.82	17.59	17.66
		15	0	5	19.0	17.94	17.76	17.59

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20407	20525	20643
						Freq(MHz)		
						824.7	836.5	848.3
1.4	QPSK	1	0	0	24.0	22.82	22.57	22.51
		1	2	0	24.0	22.73	22.61	22.50
		1	5	0	24.0	22.74	22.42	22.37
		3	0	0	24.0	22.67	22.53	22.48
		3	1	0	24.0	22.75	22.58	22.47
		3	3	0	24.0	22.69	22.55	22.37
		6	0	1	23.0	21.75	21.58	21.49
	16QAM	1	0	1	23.0	22.35	21.96	21.87
		1	2	1	23.0	22.41	22.00	21.76
		1	5	1	23.0	21.96	21.88	21.61
		3	0	1	23.0	22.01	21.69	21.77
		3	1	1	23.0	22.08	21.66	21.61
		3	3	1	23.0	21.95	21.64	21.77
		6	0	2	22.0	20.83	20.64	20.62
	64QAM	1	0	2	22.0	21.14	20.93	20.42
		1	2	2	22.0	21.19	20.94	20.28
		1	5	2	22.0	20.98	20.83	20.29
		3	0	2	22.0	21.00	20.67	20.20
		3	1	2	22.0	20.97	20.78	20.16
		3	3	2	22.0	20.83	20.61	20.23
		6	0	3	21.0	19.76	19.68	19.28
	256QAM	1	0	5	19.0	18.10	17.81	17.61
		1	2	5	19.0	17.86	17.92	17.79
		1	5	5	19.0	17.95	17.99	17.60
		3	0	5	19.0	17.87	17.71	17.68
		3	1	5	19.0	17.92	17.80	17.64
		3	3	5	19.0	17.86	17.80	17.62
		6	0	5	19.0	17.93	17.65	17.49

Band 5 Red

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	20525	-
						Freq(MHz)		
						-	836.5	-
10	QPSK	1	0	0	22.0	-	20.63	-
		1	24	0	22.0	-	20.44	-
		1	49	0	22.0	-	20.40	-
		25	0	0	22.0	-	20.58	-
		25	12	0	22.0	-	20.66	-
		25	25	0	22.0	-	20.59	-
		50	0	0	22.0	-	20.52	-
	16QAM	1	0	0	22.0	-	20.97	-
		1	24	0	22.0	-	20.87	-
		1	49	0	22.0	-	20.80	-
		25	0	0	22.0	-	20.60	-
		25	12	0	22.0	-	20.63	-
		25	25	0	22.0	-	20.60	-
		50	0	0	22.0	-	20.73	-
	64QAM	1	0	0	22.0	-	21.00	-
		1	24	0	22.0	-	20.77	-
		1	49	0	22.0	-	20.70	-
		25	0	1	21.0	-	19.60	-
		25	12	1	21.0	-	19.73	-
		25	25	1	21.0	-	19.64	-
		50	0	1	21.0	-	19.68	-
	256QAM	1	0	3	19.0	-	17.78	-
		1	24	3	19.0	-	17.85	-
		1	49	3	19.0	-	17.99	-
		25	0	3	19.0	-	17.65	-
		25	12	3	19.0	-	17.69	-
		25	25	3	19.0	-	17.63	-
		50	0	3	19.0	-	17.67	-

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20425	20525	20625
						Freq(MHz)		
						826.5	836.5	846.5
5	QPSK	1	0	0	22.0	20.62	20.47	20.47
		1	12	0	22.0	20.49	20.46	20.49
		1	24	0	22.0	20.50	20.37	20.42
		12	0	0	22.0	20.64	20.57	20.52
		12	6	0	22.0	20.63	20.59	20.56
		12	13	0	22.0	20.65	20.48	20.50
		25	0	0	22.0	20.61	20.46	20.48
	16QAM	1	0	0	22.0	20.98	20.79	20.95
		1	12	0	22.0	20.77	20.71	20.72
		1	24	0	22.0	20.80	20.70	20.59
		12	0	0	22.0	20.77	20.55	20.65
		12	6	0	22.0	20.79	20.59	20.63
		12	13	0	22.0	20.67	20.56	20.60
		25	0	0	22.0	20.77	20.49	20.49
	64QAM	1	0	0	22.0	21.05	20.93	20.19
		1	12	0	22.0	20.90	20.67	20.48
		1	24	0	22.0	20.95	20.87	20.12
		12	0	1	21.0	19.77	19.61	19.32
		12	6	1	21.0	19.76	19.66	19.33
		12	13	1	21.0	19.69	19.61	19.21
		25	0	1	21.0	19.70	19.60	19.26
	256QAM	1	0	3	19.0	17.68	17.65	17.84
		1	12	3	19.0	17.58	17.79	17.50
		1	24	3	19.0	17.62	17.44	17.72
		12	0	3	19.0	17.75	17.61	17.52
		12	6	3	19.0	17.75	17.65	17.56
		12	13	3	19.0	17.65	17.57	17.53
		25	0	3	19.0	17.73	17.65	17.50

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20415	20525	20635
						Freq(MHz)		
						825.5	836.5	847.5
3	QPSK	1	0	0	22.0	20.61	20.49	20.52
		1	7	0	22.0	20.62	20.52	20.49
		1	14	0	22.0	20.50	20.41	20.44
		8	0	0	22.0	20.62	20.49	20.47
		8	4	0	22.0	20.60	20.58	20.59
		8	7	0	22.0	20.63	20.52	20.48
		15	0	0	22.0	20.60	20.48	20.49
	16QAM	1	0	0	22.0	21.09	20.84	20.93
		1	7	0	22.0	20.87	20.90	20.96
		1	14	0	22.0	20.82	20.77	20.66
		8	0	0	22.0	20.86	20.67	20.57
		8	4	0	22.0	20.96	20.64	20.67
		8	7	0	22.0	20.78	20.64	20.57
		15	0	0	22.0	20.70	20.58	20.51
	64QAM	1	0	0	22.0	20.90	20.85	20.48
		1	7	0	22.0	21.01	20.62	20.44
		1	14	0	22.0	20.87	20.59	20.34
		8	0	1	21.0	19.94	19.60	19.48
		8	4	1	21.0	19.82	19.55	19.39
		8	7	1	21.0	19.83	19.53	19.30
		15	0	1	21.0	19.82	19.55	19.45
	256QAM	1	0	3	19.0	17.99	17.47	17.83
		1	7	3	19.0	18.33	17.56	17.81
		1	14	3	19.0	17.65	17.74	17.80
		8	0	3	19.0	18.10	17.62	17.81
		8	4	3	19.0	18.07	17.61	18.03
		8	7	3	19.0	18.02	17.57	17.65
		15	0	3	19.0	17.96	17.56	17.71

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20407	20525	20643
						Freq(MHz)		
						824.7	836.5	848.3
1.4	QPSK	1	0	0	22.0	20.62	20.56	20.52
		1	2	0	22.0	20.60	20.41	20.51
		1	5	0	22.0	20.53	20.36	20.53
		3	0	0	22.0	20.57	20.48	20.38
		3	1	0	22.0	20.62	20.46	20.44
		3	3	0	22.0	20.55	20.33	20.35
		6	0	0	22.0	20.62	20.47	20.44
	16QAM	1	0	0	22.0	20.90	20.92	20.72
		1	2	0	22.0	21.03	20.63	20.88
		1	5	0	22.0	20.91	20.79	20.83
		3	0	0	22.0	20.83	20.58	20.61
		3	1	0	22.0	20.90	20.63	20.72
		3	3	0	22.0	20.68	20.78	20.67
		6	0	0	22.0	20.70	20.58	20.59
	64QAM	1	0	0	22.0	20.94	20.94	20.57
		1	2	0	22.0	20.81	20.88	20.37
		1	5	0	22.0	20.86	20.66	20.17
		3	0	0	22.0	20.83	20.69	20.26
		3	1	0	22.0	20.91	20.63	20.48
		3	3	0	22.0	20.65	20.58	20.38
		6	0	1	21.0	19.75	19.57	19.32
	256QAM	1	0	3	19.0	17.88	17.82	17.74
		1	2	3	19.0	17.82	17.93	17.44
		1	5	3	19.0	17.85	17.44	17.71
		3	0	3	19.0	17.81	17.76	17.59
		3	1	3	19.0	17.84	17.82	17.47
		3	3	3	19.0	17.79	17.54	17.37
		6	0	3	19.0	17.71	17.50	17.56

Band 7 Full

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20850	21100	21350
						Freq(MHz)		
						2510	2535	2560
20	QPSK	1	0	0	24.8	23.11	22.91	23.07
		1	49	0	24.8	22.91	22.84	23.06
		1	99	0	24.8	23.24	22.95	23.04
		50	0	1	23.8	22.17	21.97	22.11
		50	24	1	23.8	22.15	21.98	22.24
		50	50	1	23.8	22.23	21.99	22.21
		100	0	1	23.8	22.14	21.98	22.16
	16QAM	1	0	1	23.8	22.79	22.31	22.54
		1	49	1	23.8	22.55	22.38	22.46
		1	99	1	23.8	22.40	22.36	22.63
		50	0	2	22.8	21.26	20.99	21.10
		50	24	2	22.8	21.15	20.97	21.26
		50	50	2	22.8	21.06	20.98	21.26
		100	0	2	22.8	21.14	21.01	21.16
	64QAM	1	0	2	22.8	21.73	20.83	21.07
		1	49	2	22.8	21.25	21.13	21.24
		1	99	2	22.8	20.88	21.41	21.28
		50	0	3	21.8	20.30	20.03	20.16
		50	24	3	21.8	20.23	20.01	20.28
		50	50	3	21.8	20.16	19.96	20.27
		100	0	3	21.8	20.17	20.05	20.16
	256QAM	1	0	5	19.8	18.35	18.18	18.22
		1	49	5	19.8	18.01	17.96	18.49
		1	99	5	19.8	18.20	18.00	18.21
		50	0	5	19.8	18.27	18.01	18.11
		50	24	5	19.8	18.14	17.96	18.23
		50	50	5	19.8	18.09	17.93	18.26
		100	0	5	19.8	18.15	18.00	18.14

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20825	21100	21375
						Freq(MHz)		
						2507.5	2535	2562.5
15	QPSK	1	0	0	24.8	23.17	22.94	23.19
		1	37	0	24.8	22.98	22.84	22.98
		1	74	0	24.8	23.02	22.86	23.14
		36	0	1	23.8	22.30	22.02	22.19
		36	19	1	23.8	22.17	22.00	22.21
		36	39	1	23.8	22.15	22.01	22.25
		75	0	1	23.8	22.13	21.97	22.18
	16QAM	1	0	1	23.8	22.56	22.47	22.49
		1	37	1	23.8	22.36	22.03	22.43
		1	74	1	23.8	22.38	22.16	22.41
		36	0	2	22.8	21.22	20.99	21.16
		36	19	2	22.8	21.19	21.00	21.20
		36	39	2	22.8	21.09	21.00	21.21
		75	0	2	22.8	21.18	20.99	21.14
	64QAM	1	0	2	22.8	21.60	20.85	21.24
		1	37	2	22.8	21.03	21.23	21.34
		1	74	2	22.8	21.15	21.25	21.35
		36	0	3	21.8	20.26	19.99	20.24
		36	19	3	21.8	20.14	20.02	20.18
		36	39	3	21.8	20.10	19.95	20.23
		75	0	3	21.8	20.15	20.06	20.17
	256QAM	1	0	5	19.8	18.39	18.09	18.35
		1	37	5	19.8	18.44	17.95	18.21
		1	74	5	19.8	18.12	18.06	18.25
		36	0	5	19.8	18.26	17.98	18.15
		36	19	5	19.8	18.13	18.01	18.20
		36	39	5	19.8	18.12	18.02	18.26
		75	0	5	19.8	18.16	18.03	18.21

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20800	21100	21400
						Freq(MHz)		
						2505	2535	2565
10	QPSK	1	0	0	24.8	22.95	22.81	23.06
		1	24	0	24.8	22.96	22.80	23.05
		1	49	0	24.8	23.10	22.82	23.12
		25	0	1	23.8	22.29	21.98	22.17
		25	12	1	23.8	22.27	22.01	22.20
		25	25	1	23.8	22.21	21.96	22.24
		50	0	1	23.8	22.25	21.99	22.15
	16QAM	1	0	1	23.8	22.61	22.24	22.77
		1	24	1	23.8	22.48	22.36	22.48
		1	49	1	23.8	22.69	22.27	22.29
		25	0	2	22.8	21.25	20.99	21.16
		25	12	2	22.8	21.28	20.97	21.19
		25	25	2	22.8	21.23	20.97	21.31
		50	0	2	22.8	21.25	21.02	21.18
	64QAM	1	0	2	22.8	21.40	21.03	21.41
		1	24	2	22.8	21.27	20.96	21.43
		1	49	2	22.8	21.31	21.51	21.11
		25	0	3	21.8	20.33	19.97	20.23
		25	12	3	21.8	20.29	20.08	20.26
		25	25	3	21.8	20.29	19.98	20.25
		50	0	3	21.8	20.31	20.00	20.15
	256QAM	1	0	5	19.8	18.66	18.20	18.17
		1	24	5	19.8	18.42	18.23	18.24
		1	49	5	19.8	18.46	18.26	18.22
		25	0	5	19.8	18.26	17.96	18.26
		25	12	5	19.8	18.29	17.95	18.21
		25	25	5	19.8	18.26	17.97	18.24
		50	0	5	19.8	18.26	18.00	18.17

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20775	21100	21425
						Freq(MHz)		
						2502.5	2535	2567.5
5	QPSK	1	0	0	24.8	23.08	22.83	23.11
		1	12	0	24.8	23.07	22.82	23.08
		1	24	0	24.8	23.13	22.81	23.06
		12	0	1	23.8	22.29	21.95	22.23
		12	6	1	23.8	22.28	21.96	22.25
		12	13	1	23.8	22.26	22.00	22.22
		25	0	1	23.8	22.28	21.98	22.22
	16QAM	1	0	1	23.8	22.53	22.31	22.23
		1	12	1	23.8	22.45	22.39	22.51
		1	24	1	23.8	22.45	22.02	22.64
		12	0	2	22.8	21.37	21.02	21.29
		12	6	2	22.8	21.45	21.07	21.24
		12	13	2	22.8	21.34	21.08	21.25
		25	0	2	22.8	21.27	20.97	21.20
	64QAM	1	0	2	22.8	21.43	21.16	21.26
		1	12	2	22.8	21.22	21.11	21.33
		1	24	2	22.8	21.64	21.11	21.39
		12	0	3	21.8	20.33	20.02	20.32
		12	6	3	21.8	20.37	20.10	20.25
		12	13	3	21.8	20.34	20.05	20.20
		25	0	3	21.8	20.29	19.96	20.22
	256QAM	1	0	5	19.8	18.29	18.04	18.34
		1	12	5	19.8	18.30	18.18	18.31
		1	24	5	19.8	18.25	17.89	18.45
		12	0	5	19.8	18.33	18.00	18.29
		12	6	5	19.8	18.28	17.93	18.26
		12	13	5	19.8	18.25	17.96	18.27
		25	0	5	19.8	18.22	17.99	18.26

Band 7 Red

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20850	21100	21350
						Freq(MHz)		
						2510	2535	2560
20	QPSK	1	0	-	17.5	16.30	16.14	16.30
		1	49	-	17.5	16.16	15.97	16.29
		1	99	-	17.5	16.38	16.13	16.37
		50	0	-	17.5	16.40	16.09	16.39
		50	24	-	17.5	16.43	16.18	16.49
		50	50	-	17.5	16.50	16.19	16.45
		100	0	-	17.5	16.37	16.13	16.36
	16QAM	1	0	-	17.5	16.79	16.28	16.69
		1	49	-	17.5	16.51	16.30	16.45
		1	99	-	17.5	16.55	16.43	16.69
		50	0	-	17.5	16.44	16.12	16.37
		50	24	-	17.5	16.43	16.19	16.51
		50	50	-	17.5	16.35	16.18	16.50
		100	0	-	17.5	16.39	16.18	16.39
	64QAM	1	0	-	17.5	16.70	16.21	16.53
		1	49	-	17.5	16.40	16.11	16.68
		1	99	-	17.5	16.55	16.53	16.72
		50	0	-	17.5	16.47	16.19	16.41
		50	24	-	17.5	16.43	16.24	16.55
		50	50	-	17.5	16.45	16.21	16.55
		100	0	-	17.5	16.44	16.20	16.42
	256QAM	1	0	-	17.5	16.64	16.60	16.47
		1	49	-	17.5	16.43	16.25	16.72
		1	99	-	17.5	16.60	16.48	16.82
		50	0	-	17.5	16.45	16.14	16.37
		50	24	-	17.5	16.40	16.17	16.50
		50	50	-	17.5	16.38	16.18	16.48
		100	0	-	17.5	16.38	16.16	16.40

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20825	21100	21375
						Freq(MHz)		
						2507.5	2535	2562.5
15	QPSK	1	0	-	17.5	16.25	16.26	16.36
		1	37	-	17.5	16.28	16.10	16.31
		1	74	-	17.5	16.26	16.17	16.35
		36	0	-	17.5	16.41	16.24	16.46
		36	19	-	17.5	16.42	16.22	16.54
		36	39	-	17.5	16.36	16.21	16.55
		75	0	-	17.5	16.27	16.23	16.35
	16QAM	1	0	-	17.5	16.39	16.26	16.76
		1	37	-	17.5	16.77	16.06	16.80
		1	74	-	17.5	16.69	16.49	16.58
		36	0	-	17.5	16.45	16.20	16.46
		36	19	-	17.5	16.44	16.20	16.57
		36	39	-	17.5	16.40	16.22	16.57
		75	0	-	17.5	16.44	16.22	16.46
	64QAM	1	0	-	17.5	16.46	16.30	16.78
		1	37	-	17.5	16.77	16.35	16.75
		1	74	-	17.5	16.61	16.54	16.75
		36	0	-	17.5	16.50	16.27	16.46
		36	19	-	17.5	16.44	16.27	16.56
		36	39	-	17.5	16.43	16.21	16.58
		75	0	-	17.5	16.44	16.26	16.52
	256QAM	1	0	-	17.5	16.46	16.42	16.75
		1	37	-	17.5	16.54	16.57	16.73
		1	74	-	17.5	16.64	16.40	16.42
		36	0	-	17.5	16.43	16.20	16.46
		36	19	-	17.5	16.43	16.18	16.55
		36	39	-	17.5	16.38	16.17	16.55
		75	0	-	17.5	16.40	16.18	16.48

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20800	21100	21400
						Freq(MHz)		
						2505	2535	2565
10	QPSK	1	0	-	17.5	16.26	16.13	16.36
		1	24	-	17.5	16.25	15.92	16.33
		1	49	-	17.5	16.21	16.05	16.35
		25	0	-	17.5	16.44	16.20	16.47
		25	12	-	17.5	16.45	16.22	16.49
		25	25	-	17.5	16.41	16.21	16.48
		50	0	-	17.5	16.25	16.12	16.35
	16QAM	1	0	-	17.5	16.47	16.39	16.78
		1	24	-	17.5	16.62	16.09	16.45
		1	49	-	17.5	16.67	16.29	16.59
		25	0	-	17.5	16.45	16.19	16.50
		25	12	-	17.5	16.45	16.26	16.54
		25	25	-	17.5	16.41	16.22	16.60
		50	0	-	17.5	16.43	16.15	16.45
	64QAM	1	0	-	17.5	16.64	16.55	16.63
		1	24	-	17.5	16.55	16.40	16.68
		1	49	-	17.5	16.70	16.23	16.85
		25	0	-	17.5	16.51	16.27	16.58
		25	12	-	17.5	16.51	16.25	16.56
		25	25	-	17.5	16.46	16.26	16.61
		50	0	-	17.5	16.44	16.19	16.44
	256QAM	1	0	-	17.5	16.71	16.43	16.65
		1	24	-	17.5	16.57	16.27	16.71
		1	49	-	17.5	16.61	16.43	16.77
		25	0	-	17.5	16.44	16.17	16.39
		25	12	-	17.5	16.44	16.18	16.48
		25	25	-	17.5	16.38	16.17	16.52
		50	0	-	17.5	16.41	16.21	16.48

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20775	21100	21425
						Freq(MHz)		
						2502.5	2535	2567.5
5	QPSK	1	0	-	17.5	16.32	16.02	16.36
		1	12	-	17.5	16.27	16.03	16.37
		1	24	-	17.5	16.35	16.17	16.35
		12	0	-	17.5	16.48	16.17	16.57
		12	6	-	17.5	16.49	16.20	16.56
		12	13	-	17.5	16.44	16.22	16.58
		25	0	-	17.5	16.34	16.15	16.36
	16QAM	1	0	-	17.5	16.49	16.21	16.77
		1	12	-	17.5	16.46	16.46	16.44
		1	24	-	17.5	16.60	16.53	16.71
		12	0	-	17.5	16.52	16.22	16.60
		12	6	-	17.5	16.53	16.28	16.61
		12	13	-	17.5	16.54	16.25	16.70
		25	0	-	17.5	16.40	16.19	16.53
	64QAM	1	0	-	17.5	16.71	16.30	16.76
		1	12	-	17.5	16.60	16.36	16.36
		1	24	-	17.5	16.56	16.35	16.78
		12	0	-	17.5	16.62	16.23	16.59
		12	6	-	17.5	16.56	16.21	16.62
		12	13	-	17.5	16.48	16.23	16.65
		25	0	-	17.5	16.47	16.17	16.59
	256QAM	1	0	-	17.5	16.49	16.28	16.78
		1	12	-	17.5	16.27	16.50	16.67
		1	24	-	17.5	16.84	16.31	16.84
		12	0	-	17.5	16.49	16.28	16.56
		12	6	-	17.5	16.54	16.12	16.61
		12	13	-	17.5	16.47	16.25	16.66
		25	0	-	17.5	16.44	16.19	16.55

Band 12 Full / Red

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23095	-
						Freq(MHz)		
						-	707.5	-
10	QPSK	1	0	0	24.0	-	23.10	-
		1	24	0	24.0	-	23.01	-
		1	49	0	24.0	-	23.02	-
		25	0	1	23.0	-	22.27	-
		25	12	1	23.0	-	22.25	-
		25	25	1	23.0	-	22.24	-
		50	0	1	23.0	-	22.22	-
	16QAM	1	0	1	23.0	-	22.30	-
		1	24	1	23.0	-	22.38	-
		1	49	1	23.0	-	22.66	-
		25	0	2	22.0	-	21.32	-
		25	12	2	22.0	-	21.24	-
		25	25	2	22.0	-	21.23	-
		50	0	2	22.0	-	21.18	-
	64QAM	1	0	2	22.0	-	21.13	-
		1	24	2	22.0	-	21.31	-
		1	49	2	22.0	-	21.25	-
		25	0	3	21.0	-	20.38	-
		25	12	3	21.0	-	20.33	-
		25	25	3	21.0	-	20.31	-
		50	0	3	21.0	-	20.25	-
	256QAM	1	0	5	19.0	-	18.25	-
		1	24	5	19.0	-	17.94	-
		1	49	5	19.0	-	18.61	-
		25	0	5	19.0	-	18.19	-
		25	12	5	19.0	-	18.26	-
		25	25	5	19.0	-	18.24	-
		50	0	5	19.0	-	18.23	-

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23035	23095	23155
						Freq(MHz)		
						701.5	707.5	713.5
5	QPSK	1	0	0	24.0	22.98	23.02	23.02
		1	12	0	24.0	22.97	23.09	23.08
		1	24	0	24.0	23.07	23.07	23.01
		12	0	1	23.0	22.09	22.29	22.26
		12	6	1	23.0	22.15	22.26	22.20
		12	13	1	23.0	22.10	22.23	22.16
		25	0	1	23.0	22.12	22.25	22.16
	16QAM	1	0	1	23.0	22.19	22.49	22.16
		1	12	1	23.0	22.40	22.44	22.49
		1	24	1	23.0	22.27	22.53	22.24
		12	0	2	22.0	21.14	21.36	21.29
		12	6	2	22.0	21.16	21.36	21.28
		12	13	2	22.0	21.15	21.33	21.27
		25	0	2	22.0	21.12	21.25	21.17
	64QAM	1	0	2	22.0	21.32	21.39	21.20
		1	12	2	22.0	21.16	21.31	21.47
		1	24	2	22.0	21.17	21.48	21.43
		12	0	3	21.0	20.19	20.35	20.21
		12	6	3	21.0	20.26	20.32	20.32
		12	13	3	21.0	20.23	20.32	20.23
		25	0	3	21.0	20.17	20.30	20.20
	256QAM	1	0	5	19.0	17.97	18.46	18.31
		1	12	5	19.0	18.30	18.49	18.28
		1	24	5	19.0	18.53	18.55	18.28
		12	0	5	19.0	18.09	18.37	18.16
		12	6	5	19.0	18.18	18.28	18.18
		12	13	5	19.0	18.14	18.32	18.20
		25	0	5	19.0	18.16	18.21	18.19

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23025	23095	23165
						Freq(MHz)		
						700.5	707.5	714.5
3	QPSK	1	0	0	24.0	22.85	23.06	22.96
		1	7	0	24.0	22.91	22.98	23.05
		1	14	0	24.0	22.99	23.08	23.00
		8	0	1	23.0	22.04	22.17	22.12
		8	4	1	23.0	22.08	22.28	22.11
		8	7	1	23.0	22.05	22.20	22.10
		15	0	1	23.0	22.02	22.23	22.10
	16QAM	1	0	1	23.0	22.25	22.44	22.62
		1	7	1	23.0	22.29	22.37	22.48
		1	14	1	23.0	22.28	22.21	22.46
		8	0	2	22.0	20.96	21.31	21.18
		8	4	2	22.0	21.18	21.33	21.24
		8	7	2	22.0	21.13	21.29	21.20
		15	0	2	22.0	21.04	21.23	21.08
	64QAM	1	0	2	22.0	21.04	21.42	21.21
		1	7	2	22.0	21.32	21.38	21.34
		1	14	2	22.0	21.39	21.42	21.18
		8	0	3	21.0	20.04	20.22	20.27
		8	4	3	21.0	20.09	20.28	20.14
		8	7	3	21.0	20.10	20.20	20.13
		15	0	3	21.0	20.15	20.26	20.13
	256QAM	1	0	5	19.0	18.07	18.28	18.32
		1	7	5	19.0	18.18	18.22	18.02
		1	14	5	19.0	18.07	18.27	18.06
		8	0	5	19.0	18.03	18.15	18.16
		8	4	5	19.0	18.07	18.23	18.17
		8	7	5	19.0	18.03	18.16	18.12
		15	0	5	19.0	18.09	18.25	18.17

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23017	23095	23173
						Freq(MHz)		
						699.7	707.5	715.3
1.4	QPSK	1	0	0	24.0	22.89	23.02	22.91
		1	2	0	24.0	22.94	23.01	22.85
		1	5	0	24.0	22.82	22.90	22.89
		3	0	0	24.0	22.81	22.97	22.90
		3	1	0	24.0	22.95	22.99	22.94
		3	3	0	24.0	22.87	23.01	22.88
		6	0	1	23.0	21.88	22.14	22.01
	16QAM	1	0	1	23.0	22.40	22.36	22.37
		1	2	1	23.0	22.24	22.29	22.51
		1	5	1	23.0	22.33	22.46	22.16
		3	0	1	23.0	21.95	22.07	22.25
		3	1	1	23.0	22.16	22.19	22.26
		3	3	1	23.0	22.12	22.15	22.21
		6	0	2	22.0	21.09	21.23	20.98
	64QAM	1	0	2	22.0	21.29	21.45	21.40
		1	2	2	22.0	21.27	21.51	21.36
		1	5	2	22.0	21.25	21.02	21.23
		3	0	2	22.0	21.04	21.04	21.24
		3	1	2	22.0	21.01	21.23	20.99
		3	3	2	22.0	21.05	21.24	21.12
		6	0	3	21.0	19.97	20.20	20.00
	256QAM	1	0	5	19.0	18.04	18.47	18.28
		1	2	5	19.0	18.16	18.05	18.33
		1	5	5	19.0	18.10	18.30	18.15
		3	0	5	19.0	17.97	18.27	18.09
		3	1	5	19.0	18.03	18.45	18.15
		3	3	5	19.0	18.09	18.23	18.03
		6	0	5	19.0	17.96	18.07	17.98

Band 13 Full

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23230	-
						Freq(MHz)		
						-	782	-
10	QPSK	1	0	0	24.0	-	22.65	-
		1	24	0	24.0	-	22.58	-
		1	49	0	24.0	-	22.70	-
		25	0	1	23.0	-	21.70	-
		25	12	1	23.0	-	21.69	-
		25	25	1	23.0	-	21.73	-
		50	0	1	23.0	-	21.70	-
	16QAM	1	0	1	23.0	-	21.88	-
		1	24	1	23.0	-	21.98	-
		1	49	1	23.0	-	21.89	-
		25	0	2	22.0	-	20.69	-
		25	12	2	22.0	-	20.71	-
		25	25	2	22.0	-	20.71	-
		50	0	2	22.0	-	20.70	-
	64QAM	1	0	2	22.0	-	20.46	-
		1	24	2	22.0	-	20.94	-
		1	49	2	22.0	-	20.95	-
		25	0	3	21.0	-	19.74	-
		25	12	3	21.0	-	19.24	-
		25	25	3	21.0	-	19.08	-
		50	0	3	21.0	-	19.02	-
	256QAM	1	0	5	19.0	-	17.82	-
		1	24	5	19.0	-	17.74	-
		1	49	5	19.0	-	18.03	-
		25	0	5	19.0	-	17.65	-
		25	12	5	19.0	-	17.64	-
		25	25	5	19.0	-	17.69	-
		50	0	5	19.0	-	17.75	-

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23205	23230	23255
						Freq(MHz)		
						779.5	782	784.5
5	QPSK	1	0	0	24.0	22.42	22.47	22.56
		1	12	0	24.0	22.53	22.65	22.67
		1	24	0	24.0	22.59	22.52	22.68
		12	0	1	23.0	21.66	21.72	21.69
		12	6	1	23.0	21.68	21.71	21.71
		12	13	1	23.0	21.70	21.70	21.74
		25	0	1	23.0	21.69	21.66	21.71
	16QAM	1	0	1	23.0	21.41	21.69	21.91
		1	12	1	23.0	21.89	21.74	21.87
		1	24	1	23.0	21.78	21.75	21.75
		12	0	2	22.0	20.71	20.73	20.81
		12	6	2	22.0	20.76	20.76	20.75
		12	13	2	22.0	20.76	20.83	20.81
		25	0	2	22.0	20.74	20.67	20.70
	64QAM	1	0	2	22.0	20.49	20.76	20.78
		1	12	2	22.0	20.98	20.53	20.99
		1	24	2	22.0	20.84	20.48	20.84
		12	0	3	21.0	19.55	19.47	19.80
		12	6	3	21.0	19.61	19.49	19.64
		12	13	3	21.0	19.43	19.40	19.65
		25	0	3	21.0	19.26	19.71	19.70
	256QAM	1	0	5	19.0	17.89	17.60	17.92
		1	12	5	19.0	17.97	17.99	17.77
		1	24	5	19.0	17.94	18.20	17.81
		12	0	5	19.0	17.68	17.67	17.74
		12	6	5	19.0	17.76	17.77	17.73
		12	13	5	19.0	17.73	17.71	17.79
		25	0	5	19.0	17.73	17.66	17.70

Band 13 Red

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23230	-
						Freq(MHz)		
						-	782	-
10	QPSK	1	0	0	23.5	-	21.78	-
		1	24	0	23.5	-	21.77	-
		1	49	0	23.5	-	22.03	-
		25	0	0.5	23.0	-	21.44	-
		25	12	0.5	23.0	-	21.46	-
		25	25	0.5	23.0	-	21.48	-
		50	0	0.5	23.0	-	21.44	-
	16QAM	1	0	0.5	23.0	-	21.86	-
		1	24	0.5	23.0	-	21.78	-
		1	49	0.5	23.0	-	21.76	-
		25	0	1.5	22.0	-	20.47	-
		25	12	1.5	22.0	-	20.50	-
		25	25	1.5	22.0	-	20.52	-
		50	0	1.5	22.0	-	20.47	-
	64QAM	1	0	1.5	22.0	-	20.47	-
		1	24	1.5	22.0	-	20.67	-
		1	49	1.5	22.0	-	20.81	-
		25	0	2.5	21.0	-	19.44	-
		25	12	2.5	21.0	-	19.46	-
		25	25	2.5	21.0	-	19.50	-
		50	0	2.5	21.0	-	19.44	-
	256QAM	1	0	4.5	19.0	-	17.53	-
		1	24	4.5	19.0	-	17.60	-
		1	49	4.5	19.0	-	17.75	-
		25	0	4.5	19.0	-	17.41	-
		25	12	4.5	19.0	-	17.42	-
		25	25	4.5	19.0	-	17.56	-
		50	0	4.5	19.0	-	17.45	-

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23205	23230	23255
						Freq(MHz)		
						779.5	782	784.5
5	QPSK	1	0	0	23.5	21.61	21.76	21.79
		1	12	0	23.5	21.80	21.94	21.81
		1	24	0	23.5	21.82	21.85	21.87
		12	0	0.5	23.0	21.42	21.44	21.45
		12	6	0.5	23.0	21.45	21.47	21.41
		12	13	0.5	23.0	21.47	21.46	21.42
		25	0	0.5	23.0	21.47	21.42	21.43
	16QAM	1	0	0.5	23.0	21.60	21.51	21.63
		1	12	0.5	23.0	21.96	21.71	21.72
		1	24	0.5	23.0	21.79	21.79	21.96
		12	0	1.5	22.0	20.51	20.51	20.54
		12	6	1.5	22.0	20.55	20.42	20.56
		12	13	1.5	22.0	20.52	20.63	20.69
		25	0	1.5	22.0	20.49	20.45	20.44
	64QAM	1	0	1.5	22.0	20.50	20.64	20.58
		1	12	1.5	22.0	20.36	20.58	20.53
		1	24	1.5	22.0	20.80	20.90	20.68
		12	0	2.5	21.0	19.35	19.48	19.56
		12	6	2.5	21.0	19.41	19.59	19.53
		12	13	2.5	21.0	19.53	19.62	19.52
		25	0	2.5	21.0	19.44	19.48	19.42
	256QAM	1	0	4.5	19.0	17.43	17.66	17.52
		1	12	4.5	19.0	17.56	17.49	17.42
		1	24	4.5	19.0	17.64	17.61	17.69
		12	0	4.5	19.0	17.40	17.53	17.51
		12	6	4.5	19.0	17.43	17.41	17.61
		12	13	4.5	19.0	17.49	17.50	17.65
		25	0	4.5	19.0	17.43	17.44	17.51

Band 14 Full

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23330	-
						Freq(MHz)		
						-	793	-
10	QPSK	1	0	0	24.0	-	22.68	-
		1	24	0	24.0	-	22.65	-
		1	49	0	24.0	-	22.79	-
		25	0	1	23.0	-	21.74	-
		25	12	1	23.0	-	21.81	-
		25	25	1	23.0	-	21.84	-
		50	0	1	23.0	-	21.75	-
	16QAM	1	0	1	23.0	-	21.94	-
		1	24	1	23.0	-	22.14	-
		1	49	1	23.0	-	21.87	-
		25	0	2	22.0	-	20.77	-
		25	12	2	22.0	-	20.76	-
		25	25	2	22.0	-	20.85	-
		50	0	2	22.0	-	20.76	-
	64QAM	1	0	2	22.0	-	20.84	-
		1	24	2	22.0	-	21.04	-
		1	49	2	22.0	-	20.92	-
		25	0	3	21.0	-	19.80	-
		25	12	3	21.0	-	19.83	-
		25	25	3	21.0	-	19.94	-
		50	0	3	21.0	-	19.83	-
	256QAM	1	0	5	19.0	-	17.68	-
		1	24	5	19.0	-	18.18	-
		1	49	5	19.0	-	18.36	-
		25	0	5	19.0	-	17.75	-
		25	12	5	19.0	-	17.82	-
		25	25	5	19.0	-	17.89	-
		50	0	5	19.0	-	17.85	-

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23305	23330	23355
						Freq(MHz)		
						790.5	793	795.5
5	QPSK	1	0	0	24.0	22.66	22.53	22.72
		1	12	0	24.0	22.69	22.77	22.78
		1	24	0	24.0	22.76	22.78	22.77
		12	0	1	23.0	21.78	21.73	21.80
		12	6	1	23.0	21.81	21.83	21.89
		12	13	1	23.0	21.77	21.82	21.85
		25	0	1	23.0	21.78	21.79	21.80
	16QAM	1	0	1	23.0	22.29	21.83	21.99
		1	12	1	23.0	22.17	21.95	22.03
		1	24	1	23.0	21.98	22.47	21.98
		12	0	2	22.0	20.75	20.88	20.88
		12	6	2	22.0	20.88	20.91	20.97
		12	13	2	22.0	20.88	20.93	21.00
		25	0	2	22.0	20.75	20.81	20.81
	64QAM	1	0	2	22.0	21.09	20.84	21.26
		1	12	2	22.0	20.85	20.80	21.13
		1	24	2	22.0	21.19	20.85	20.96
		12	0	3	21.0	19.87	19.84	19.88
		12	6	3	21.0	19.85	19.84	19.88
		12	13	3	21.0	19.91	19.86	19.87
		25	0	3	21.0	19.84	19.82	19.87
	256QAM	1	0	5	19.0	17.97	17.84	17.92
		1	12	5	19.0	18.05	17.99	17.99
		1	24	5	19.0	18.12	17.97	17.90
		12	0	5	19.0	17.74	17.85	17.86
		12	6	5	19.0	17.87	17.90	17.93
		12	13	5	19.0	17.88	17.93	17.88
		25	0	5	19.0	17.81	17.78	17.87

Band 14 Red

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23330	-
						Freq(MHz)		
						-	793	-
10	QPSK	1	0	0	23.3	-	21.67	-
		1	24	0	23.3	-	21.66	-
		1	49	0	23.3	-	21.77	-
		25	0	0.3	23.0	-	21.50	-
		25	12	0.3	23.0	-	21.52	-
		25	25	0.3	23.0	-	21.59	-
		50	0	0.3	23.0	-	21.53	-
	16QAM	1	0	0.3	23.0	-	22.00	-
		1	24	0.3	23.0	-	22.06	-
		1	49	0.3	23.0	-	22.03	-
		25	0	1.3	22.0	-	20.47	-
		25	12	1.3	22.0	-	20.54	-
		25	25	1.3	22.0	-	20.58	-
		50	0	1.3	22.0	-	20.56	-
	64QAM	1	0	1.3	22.0	-	20.63	-
		1	24	1.3	22.0	-	20.84	-
		1	49	1.3	22.0	-	20.89	-
		25	0	2.3	21.0	-	19.50	-
		25	12	2.3	21.0	-	19.53	-
		25	25	2.3	21.0	-	19.66	-
		50	0	2.3	21.0	-	19.54	-
	256QAM	1	0	4.3	19.0	-	17.60	-
		1	24	4.3	19.0	-	17.94	-
		1	49	4.3	19.0	-	17.81	-
		25	0	4.3	19.0	-	17.54	-
		25	12	4.3	19.0	-	17.58	-
		25	25	4.3	19.0	-	17.55	-
		50	0	4.3	19.0	-	17.56	-

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23305	23330	23355
						Freq(MHz)		
						790.5	793	795.5
5	QPSK	1	0	0	23.3	21.58	21.57	21.75
		1	12	0	23.3	21.57	21.73	21.74
		1	24	0	23.3	21.73	21.76	21.73
		12	0	0.3	23.0	21.46	21.51	21.57
		12	6	0.3	23.0	21.58	21.57	21.56
		12	13	0.3	23.0	21.51	21.61	21.58
		25	0	0.3	23.0	21.51	21.52	21.58
	16QAM	1	0	0.3	23.0	21.57	21.90	21.82
		1	12	0.3	23.0	21.83	22.11	22.10
		1	24	0.3	23.0	21.88	21.81	22.07
		12	0	1.3	22.0	20.57	20.61	20.67
		12	6	1.3	22.0	20.58	20.55	20.66
		12	13	1.3	22.0	20.59	20.61	20.65
		25	0	1.3	22.0	20.57	20.55	20.60
	64QAM	1	0	1.3	22.0	20.89	20.77	20.70
		1	12	1.3	22.0	20.53	20.60	21.12
		1	24	1.3	22.0	20.63	20.63	20.93
		12	0	2.3	21.0	19.57	19.55	19.53
		12	6	2.3	21.0	19.60	19.56	19.65
		12	13	2.3	21.0	19.60	19.60	19.56
		25	0	2.3	21.0	19.54	19.47	19.56
	256QAM	1	0	4.3	19.0	17.58	17.81	17.58
		1	12	4.3	19.0	17.44	17.89	17.62
		1	24	4.3	19.0	17.92	17.87	17.76
		12	0	4.3	19.0	17.43	17.56	17.57
		12	6	4.3	19.0	17.57	17.63	17.64
		12	13	4.3	19.0	17.50	17.61	17.68
		25	0	4.3	19.0	17.55	17.51	17.55

Band 17 Full / Red

Band						Meas. Pwr Avg (dBm)		
17						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23790	-
						Freq(MHz)		
						-	710	-
10	QPSK	1	0	0	24.0	-	23.13	-
		1	24	0	24.0	-	23.02	-
		1	49	0	24.0	-	22.99	-
		25	0	1	23.0	-	22.25	-
		25	12	1	23.0	-	22.29	-
		25	25	1	23.0	-	22.28	-
		50	0	1	23.0	-	22.20	-
	16QAM	1	0	1	23.0	-	22.51	-
		1	24	1	23.0	-	22.29	-
		1	49	1	23.0	-	22.53	-
		25	0	2	22.0	-	21.22	-
		25	12	2	22.0	-	21.30	-
		25	25	2	22.0	-	21.33	-
		50	0	2	22.0	-	21.22	-
	64QAM	1	0	2	22.0	-	21.27	-
		1	24	2	22.0	-	21.32	-
		1	49	2	22.0	-	21.15	-
		25	0	3	21.0	-	20.37	-
		25	12	3	21.0	-	20.32	-
		25	25	3	21.0	-	20.37	-
		50	0	3	21.0	-	20.23	-
	256QAM	1	0	5	19.0	-	18.17	-
		1	24	5	19.0	-	18.31	-
		1	49	5	19.0	-	18.30	-
		25	0	5	19.0	-	18.25	-
		25	12	5	19.0	-	18.25	-
		25	25	5	19.0	-	18.23	-
		50	0	5	19.0	-	18.27	-

Band						Meas. Pwr Avg (dBm)		
17						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23790	-
						Freq(MHz)		
						-	710	-
5	QPSK	1	0	0	24.0	-	23.10	-
		1	12	0	24.0	-	23.12	-
		1	24	0	24.0	-	23.11	-
		12	0	1	23.0	-	22.29	-
		12	6	1	23.0	-	22.35	-
		12	13	1	23.0	-	22.30	-
		25	0	1	23.0	-	22.22	-
	16QAM	1	0	1	23.0	-	22.05	-
		1	12	1	23.0	-	22.57	-
		1	24	1	23.0	-	22.56	-
		12	0	2	22.0	-	21.35	-
		12	6	2	22.0	-	21.37	-
		12	13	2	22.0	-	21.35	-
		25	0	2	22.0	-	21.30	-
	64QAM	1	0	2	22.0	-	21.15	-
		1	12	2	22.0	-	21.75	-
		1	24	2	22.0	-	21.56	-
		12	0	3	21.0	-	20.27	-
		12	6	3	21.0	-	20.31	-
		12	13	3	21.0	-	20.30	-
		25	0	3	21.0	-	20.30	-
	256QAM	1	0	5	19.0	-	18.03	-
		1	12	5	19.0	-	18.50	-
		1	24	5	19.0	-	18.30	-
		12	0	5	19.0	-	18.23	-
		12	6	5	19.0	-	18.31	-
		12	13	5	19.0	-	18.26	-
		25	0	5	19.0	-	18.25	-

Band 25 Full

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26140	26365	26590
						Freq(MHz)		
						1860	1882.5	1905
20	QPSK	1	0	0	24.0	22.76	22.77	22.89
		1	49	0	24.0	22.78	22.71	22.68
		1	99	0	24.0	22.87	22.70	22.62
		50	0	1	23.0	21.84	21.83	21.87
		50	24	1	23.0	21.92	21.81	21.93
		50	50	1	23.0	21.85	21.87	21.86
		100	0	1	23.0	21.91	21.86	21.85
	16QAM	1	0	1	23.0	22.23	22.22	22.30
		1	49	1	23.0	21.74	21.62	22.11
		1	99	1	23.0	22.24	21.94	21.83
		50	0	2	22.0	20.82	20.79	20.83
		50	24	2	22.0	20.89	20.84	20.96
		50	50	2	22.0	20.85	20.86	20.88
		100	0	2	22.0	20.90	20.90	20.85
	64QAM	1	0	2	22.0	21.23	20.89	20.78
		1	49	2	22.0	21.11	21.07	20.95
		1	99	2	22.0	21.13	20.97	21.01
		50	0	3	21.0	19.91	19.82	19.90
		50	24	3	21.0	19.93	19.89	19.99
		50	50	3	21.0	19.91	19.94	19.93
		100	0	3	21.0	19.96	19.95	19.90
	256QAM	1	0	5	19.0	18.08	17.98	18.32
		1	49	5	19.0	18.04	17.76	18.08
		1	99	5	19.0	17.84	17.77	18.07
		50	0	5	19.0	17.87	17.84	17.87
		50	24	5	19.0	17.95	17.86	17.97
		50	50	5	19.0	17.90	17.86	17.89
		100	0	5	19.0	17.94	17.92	17.88

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26115	26365	26615
						Freq(MHz)		
						1857.5	1882.5	1907.5
15	QPSK	1	0	0	24.0	22.84	22.80	22.88
		1	37	0	24.0	22.77	22.79	22.73
		1	74	0	24.0	22.76	22.72	22.63
		36	0	1	23.0	21.87	21.83	21.89
		36	19	1	23.0	21.89	21.89	21.93
		36	39	1	23.0	21.86	21.87	21.85
		75	0	1	23.0	21.88	21.89	21.87
	16QAM	1	0	1	23.0	22.32	22.12	22.26
		1	37	1	23.0	21.98	22.07	22.00
		1	74	1	23.0	21.77	22.04	21.87
		36	0	2	22.0	20.92	20.86	20.91
		36	19	2	22.0	20.90	20.90	20.94
		36	39	2	22.0	20.86	20.86	20.86
		75	0	2	22.0	20.93	20.90	20.87
	64QAM	1	0	2	22.0	20.96	20.76	21.03
		1	37	2	22.0	20.98	21.17	21.00
		1	74	2	22.0	21.16	21.03	20.93
		36	0	3	21.0	19.90	19.85	19.91
		36	19	3	21.0	19.94	19.89	19.92
		36	39	3	21.0	19.90	19.92	19.91
		75	0	3	21.0	19.96	19.94	19.92
	256QAM	1	0	5	19.0	17.95	18.09	18.20
		1	37	5	19.0	17.86	18.10	17.99
		1	74	5	19.0	17.83	17.80	18.09
		36	0	5	19.0	17.89	17.87	17.90
		36	19	5	19.0	18.02	17.97	17.96
		36	39	5	19.0	17.89	17.91	17.88
		75	0	5	19.0	17.95	17.94	17.90

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26090	26365	26640
						Freq(MHz)		
						1855	1882.5	1910
10	QPSK	1	0	0	24.0	22.88	22.72	22.77
		1	24	0	24.0	22.67	22.60	22.76
		1	49	0	24.0	22.78	22.83	22.73
		25	0	1	23.0	21.89	21.82	21.85
		25	12	1	23.0	21.94	21.92	21.84
		25	25	1	23.0	21.95	21.91	21.92
		50	0	1	23.0	21.92	21.91	21.84
	16QAM	1	0	1	23.0	22.14	22.32	22.05
		1	24	1	23.0	22.11	22.10	21.97
		1	49	1	23.0	21.87	22.07	22.18
		25	0	2	22.0	20.92	20.86	20.85
		25	12	2	22.0	20.99	20.99	20.86
		25	25	2	22.0	20.90	20.88	20.91
		50	0	2	22.0	20.96	20.94	20.85
	64QAM	1	0	2	22.0	21.35	21.30	21.24
		1	24	2	22.0	21.07	21.08	21.05
		1	49	2	22.0	21.34	20.93	21.06
		25	0	3	21.0	19.95	19.90	19.91
		25	12	3	21.0	20.09	19.96	19.89
		25	25	3	21.0	20.00	19.99	19.97
		50	0	3	21.0	19.93	19.91	19.90
	256QAM	1	0	5	19.0	17.99	18.22	18.29
		1	24	5	19.0	18.11	17.91	18.41
		1	49	5	19.0	18.24	18.07	18.02
		25	0	5	19.0	17.92	17.77	17.90
		25	12	5	19.0	17.97	17.92	17.76
		25	25	5	19.0	17.91	17.89	17.87
		50	0	5	19.0	17.97	17.94	17.87

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26065	26365	26665
						Freq(MHz)		
						1852.5	1882.5	1912.5
5	QPSK	1	0	0	24.0	22.78	22.68	22.75
		1	12	0	24.0	22.80	22.81	22.68
		1	24	0	24.0	22.76	22.83	22.74
		12	0	1	23.0	21.83	21.78	21.80
		12	6	1	23.0	21.92	21.91	21.86
		12	13	1	23.0	21.91	21.94	21.88
		25	0	1	23.0	21.91	21.90	21.87
	16QAM	1	0	1	23.0	21.82	21.91	22.17
		1	12	1	23.0	22.11	22.18	21.65
		1	24	1	23.0	22.14	22.00	21.68
		12	0	2	22.0	20.89	20.91	20.84
		12	6	2	22.0	20.99	20.97	20.90
		12	13	2	22.0	21.06	21.03	20.95
		25	0	2	22.0	20.92	20.92	20.87
	64QAM	1	0	2	22.0	21.14	20.96	20.89
		1	12	2	22.0	21.03	20.98	21.16
		1	24	2	22.0	21.10	20.93	20.89
		12	0	3	21.0	19.94	19.76	19.85
		12	6	3	21.0	20.05	20.03	19.88
		12	13	3	21.0	20.05	19.97	19.96
		25	0	3	21.0	19.98	19.95	19.91
	256QAM	1	0	5	19.0	18.07	18.02	18.16
		1	12	5	19.0	18.06	18.45	17.85
		1	24	5	19.0	18.20	18.00	17.92
		12	0	5	19.0	17.90	17.76	17.99
		12	6	5	19.0	18.07	18.01	17.93
		12	13	5	19.0	17.98	18.02	17.92
		25	0	5	19.0	17.89	17.92	17.90

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26055	26365	26675
						Freq(MHz)		
						1851.5	1882.5	1913.5
3	QPSK	1	0	0	24.0	22.62	22.62	22.67
		1	7	0	24.0	22.82	22.82	22.64
		1	14	0	24.0	22.85	22.85	22.81
		8	0	1	23.0	21.75	21.75	21.76
		8	4	1	23.0	21.91	21.91	21.85
		8	7	1	23.0	21.93	21.93	21.86
		15	0	1	23.0	21.92	21.91	21.84
	16QAM	1	0	1	23.0	21.94	21.94	21.89
		1	7	1	23.0	21.98	21.98	21.92
		1	14	1	23.0	22.11	22.11	22.08
		8	0	2	22.0	20.81	20.81	20.84
		8	4	2	22.0	20.98	20.98	20.97
		8	7	2	22.0	21.09	21.09	21.01
		15	0	2	22.0	20.93	20.93	20.93
	64QAM	1	0	2	22.0	20.96	20.96	20.97
		1	7	2	22.0	21.13	21.13	21.01
		1	14	2	22.0	21.07	21.07	20.74
		8	0	3	21.0	19.89	19.89	19.77
		8	4	3	21.0	20.05	20.05	20.00
		8	7	3	21.0	19.90	19.90	19.89
		15	0	3	21.0	19.96	19.96	19.91
	256QAM	1	0	5	19.0	17.79	17.79	18.01
		1	7	5	19.0	18.08	18.08	18.03
		1	14	5	19.0	17.88	17.88	17.97
		8	0	5	19.0	17.78	17.78	17.78
		8	4	5	19.0	17.98	17.98	17.92
		8	7	5	19.0	18.02	18.02	17.95
		15	0	5	19.0	17.96	17.96	17.94

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26047	26365	26683
						Freq(MHz)		
						1850.7	1882.5	1914.3
1.4	QPSK	1	0	0	24.0	22.88	22.83	22.63
		1	2	0	24.0	22.83	22.81	22.66
		1	5	0	24.0	22.74	22.68	22.59
		3	0	0	24.0	22.71	22.69	22.53
		3	1	0	24.0	22.78	22.75	22.60
		3	3	0	24.0	22.77	22.65	22.58
		6	0	1	23.0	21.87	21.78	21.72
	16QAM	1	0	1	23.0	22.30	22.29	21.93
		1	2	1	23.0	21.76	21.79	21.45
		1	5	1	23.0	22.40	22.29	22.18
		3	0	1	23.0	21.89	21.71	21.67
		3	1	1	23.0	21.78	21.90	21.73
		3	3	1	23.0	21.85	21.80	21.76
		6	0	2	22.0	20.90	20.92	20.80
	64QAM	1	0	2	22.0	21.36	21.11	20.94
		1	2	2	22.0	20.89	20.84	20.78
		1	5	2	22.0	21.25	21.20	20.79
		3	0	2	22.0	20.97	20.90	20.87
		3	1	2	22.0	20.91	20.98	20.77
		3	3	2	22.0	20.97	21.01	20.75
		6	0	3	21.0	19.95	19.89	19.92
	256QAM	1	0	5	19.0	18.13	17.94	18.24
		1	2	5	19.0	18.23	18.24	17.76
		1	5	5	19.0	17.72	17.79	17.62
		3	0	5	19.0	17.85	17.81	17.63
		3	1	5	19.0	18.17	17.94	17.83
		3	3	5	19.0	17.98	17.91	17.79
		6	0	5	19.0	17.89	17.78	17.81

Band 25 Red

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26140	26365	26590
						Freq(MHz)		
						1860	1882.5	1905
20	QPSK	1	0	-	16.0	15.10	14.74	14.80
		1	49	-	16.0	14.82	14.69	14.68
		1	99	-	16.0	15.15	14.58	14.63
		50	0	-	16.0	15.03	14.86	14.84
		50	24	-	16.0	15.10	14.92	14.86
		50	50	-	16.0	15.02	14.91	14.88
		100	0	-	16.0	15.05	14.73	14.79
	16QAM	1	0	-	16.0	15.38	15.22	14.93
		1	49	-	16.0	15.21	14.93	15.10
		1	99	-	16.0	15.02	14.99	15.11
		50	0	-	16.0	14.95	14.81	14.90
		50	24	-	16.0	15.03	14.90	14.93
		50	50	-	16.0	15.00	14.92	14.88
		100	0	-	16.0	14.99	14.86	14.93
	64QAM	1	0	-	16.0	15.10	14.90	15.03
		1	49	-	16.0	15.15	14.80	14.96
		1	99	-	16.0	14.93	15.01	14.90
		50	0	-	16.0	14.98	14.84	14.84
		50	24	-	16.0	15.02	14.91	14.96
		50	50	-	16.0	15.00	14.92	14.95
		100	0	-	16.0	14.99	14.89	14.92
	256QAM	1	0	-	16.0	15.13	14.93	15.13
		1	49	-	16.0	14.99	14.96	15.15
		1	99	-	16.0	14.96	14.92	14.86
		50	0	-	16.0	14.92	14.73	14.84
		50	24	-	16.0	14.97	14.84	14.93
		50	50	-	16.0	14.93	14.83	14.85
		100	0	-	16.0	14.95	14.87	14.90

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26115	26365	26615
						Freq(MHz)		
						1857.5	1882.5	1907.5
15	QPSK	1	0	-	16.0	15.04	14.78	14.77
		1	37	-	16.0	14.83	14.87	14.72
		1	74	-	16.0	14.76	14.69	14.60
		36	0	-	16.0	15.07	14.84	14.85
		36	19	-	16.0	15.03	14.90	14.83
		36	39	-	16.0	14.96	14.86	14.84
		75	0	-	16.0	15.00	14.80	14.76
	16QAM	1	0	-	16.0	15.04	15.15	15.24
		1	37	-	16.0	15.28	14.84	15.01
		1	74	-	16.0	15.07	15.12	15.07
		36	0	-	16.0	15.04	14.75	14.87
		36	19	-	16.0	14.93	14.82	14.86
		36	39	-	16.0	14.88	14.81	14.87
		75	0	-	16.0	14.91	14.85	14.83
	64QAM	1	0	-	16.0	15.26	15.09	15.01
		1	37	-	16.0	15.27	14.95	14.94
		1	74	-	16.0	14.93	15.18	14.93
		36	0	-	16.0	14.99	14.80	14.87
		36	19	-	16.0	14.97	14.81	14.89
		36	39	-	16.0	14.94	14.88	14.90
		75	0	-	16.0	14.94	14.90	14.90
	256QAM	1	0	-	16.0	15.09	14.88	14.86
		1	37	-	16.0	14.97	15.01	14.69
		1	74	-	16.0	15.06	14.83	14.95
		36	0	-	16.0	14.99	14.72	14.84
		36	19	-	16.0	14.89	14.84	14.83
		36	39	-	16.0	14.89	14.79	14.86
		75	0	-	16.0	14.91	14.81	14.83

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26090	26365	26640
						Freq(MHz)		
						1855	1882.5	1910
10	QPSK	1	0	-	16.0	14.90	14.80	14.78
		1	24	-	16.0	14.91	14.62	14.62
		1	49	-	16.0	14.89	14.70	14.66
		25	0	-	16.0	15.01	14.76	14.72
		25	12	-	16.0	15.02	14.88	14.77
		25	25	-	16.0	15.00	14.87	14.84
		50	0	-	16.0	14.90	14.80	14.78
	16QAM	1	0	-	16.0	15.38	14.97	15.21
		1	24	-	16.0	15.22	15.12	15.10
		1	49	-	16.0	15.25	14.90	15.11
		25	0	-	16.0	14.95	14.73	14.77
		25	12	-	16.0	14.93	14.83	14.82
		25	25	-	16.0	14.98	14.79	14.83
		50	0	-	16.0	14.95	14.82	14.78
	64QAM	1	0	-	16.0	14.99	15.08	14.96
		1	24	-	16.0	14.96	15.10	14.88
		1	49	-	16.0	14.99	14.92	15.10
		25	0	-	16.0	14.89	14.71	14.73
		25	12	-	16.0	14.94	14.84	14.79
		25	25	-	16.0	14.93	14.82	14.87
		50	0	-	16.0	14.95	14.86	14.82
	256QAM	1	0	-	16.0	14.93	14.95	14.79
		1	24	-	16.0	14.98	14.66	15.04
		1	49	-	16.0	14.87	14.84	14.86
		25	0	-	16.0	14.91	14.75	14.83
		25	12	-	16.0	15.02	14.85	14.81
		25	25	-	16.0	14.97	14.92	14.88
		50	0	-	16.0	14.93	14.81	14.77

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26065	26365	26665
						Freq(MHz)		
						1852.5	1882.5	1912.5
5	QPSK	1	0	-	16.0	14.95	14.55	14.58
		1	12	-	16.0	14.93	14.77	14.71
		1	24	-	16.0	14.89	14.68	14.68
		12	0	-	16.0	14.99	14.75	14.75
		12	6	-	16.0	15.06	14.88	14.81
		12	13	-	16.0	15.07	14.89	14.82
		25	0	-	16.0	14.94	14.60	14.70
	16QAM	1	0	-	16.0	14.80	15.02	15.00
		1	12	-	16.0	15.28	15.21	15.07
		1	24	-	16.0	15.26	14.90	15.07
		12	0	-	16.0	14.95	14.77	14.87
		12	6	-	16.0	14.96	14.89	14.92
		12	13	-	16.0	15.05	14.92	14.86
		25	0	-	16.0	14.95	14.88	14.87
	64QAM	1	0	-	16.0	15.13	14.86	14.85
		1	12	-	16.0	15.04	15.21	15.19
		1	24	-	16.0	15.09	15.01	14.93
		12	0	-	16.0	14.95	14.67	14.87
		12	6	-	16.0	15.02	14.79	14.86
		12	13	-	16.0	15.06	14.85	14.89
		25	0	-	16.0	14.89	14.89	14.85
	256QAM	1	0	-	16.0	15.24	15.04	14.49
		1	12	-	16.0	14.96	14.91	15.06
		1	24	-	16.0	14.91	14.90	14.88
		12	0	-	16.0	14.93	14.71	14.86
		12	6	-	16.0	14.95	14.86	14.90
		12	13	-	16.0	14.99	14.94	14.89
		25	0	-	16.0	15.01	14.83	14.83

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26055	26365	26675
						Freq(MHz)		
						1851.5	1882.5	1913.5
3	QPSK	1	0	-	16.0	14.78	14.67	14.59
		1	7	-	16.0	14.88	14.66	14.61
		1	14	-	16.0	14.93	14.81	14.77
		8	0	-	16.0	14.98	14.82	14.75
		8	4	-	16.0	15.08	14.89	14.85
		8	7	-	16.0	15.07	14.90	14.87
		15	0	-	16.0	14.92	14.80	14.76
	16QAM	1	0	-	16.0	14.92	15.01	15.00
		1	7	-	16.0	15.20	15.08	14.95
		1	14	-	16.0	15.32	15.31	14.91
		8	0	-	16.0	15.05	14.80	14.84
		8	4	-	16.0	15.10	14.86	14.98
		8	7	-	16.0	15.13	14.85	14.89
		15	0	-	16.0	15.02	14.89	14.90
	64QAM	1	0	-	16.0	14.91	14.85	15.05
		1	7	-	16.0	15.21	15.13	15.08
		1	14	-	16.0	15.36	14.89	15.12
		8	0	-	16.0	14.90	14.90	14.86
		8	4	-	16.0	15.00	14.94	14.99
		8	7	-	16.0	15.09	15.01	14.85
		15	0	-	16.0	14.98	14.78	14.88
	256QAM	1	0	-	16.0	14.98	14.94	14.87
		1	7	-	16.0	15.18	14.85	14.75
		1	14	-	16.0	15.01	15.21	14.86
		8	0	-	16.0	14.97	14.70	14.84
		8	4	-	16.0	15.13	14.84	14.86
		8	7	-	16.0	15.11	15.01	14.78
		15	0	-	16.0	14.99	14.87	14.91

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26047	26365	26683
						Freq(MHz)		
						1850.7	1882.5	1914.3
1.4	QPSK	1	0	-	16.0	14.94	14.74	14.60
		1	2	-	16.0	14.91	14.70	14.65
		1	5	-	16.0	14.81	14.78	14.55
		3	0	-	16.0	14.92	14.64	14.55
		3	1	-	16.0	14.96	14.70	14.67
		3	3	-	16.0	14.89	14.71	14.64
		6	0	-	16.0	14.93	14.70	14.64
	16QAM	1	0	-	16.0	15.36	15.24	15.10
		1	2	-	16.0	15.34	15.00	15.11
		1	5	-	16.0	15.20	14.95	15.03
		3	0	-	16.0	15.00	14.88	14.79
		3	1	-	16.0	14.99	14.98	14.86
		3	3	-	16.0	15.01	14.82	14.91
		6	0	-	16.0	15.05	14.75	14.77
	64QAM	1	0	-	16.0	14.97	15.03	15.02
		1	2	-	16.0	15.18	15.06	15.06
		1	5	-	16.0	15.00	14.86	14.68
		3	0	-	16.0	14.97	14.81	14.68
		3	1	-	16.0	15.10	14.92	14.93
		3	3	-	16.0	15.05	14.71	14.70
		6	0	-	16.0	14.88	14.80	14.68
	256QAM	1	0	-	16.0	15.03	15.05	14.97
		1	2	-	16.0	15.13	14.86	14.68
		1	5	-	16.0	15.20	15.03	14.70
		3	0	-	16.0	15.04	14.80	14.85
		3	1	-	16.0	15.15	14.87	14.83
		3	3	-	16.0	15.03	14.68	14.72
		6	0	-	16.0	14.93	14.71	14.70

Band 26 Full

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	26865	-
						Freq(MHz)		
						-	831.5	-
15	QPSK	1	0	0	24.0	-	23.03	-
		1	37	0	24.0	-	23.00	-
		1	74	0	24.0	-	22.97	-
		36	0	1	23.0	-	22.06	-
		36	19	1	23.0	-	22.12	-
		36	39	1	23.0	-	21.99	-
		75	0	1	23.0	-	22.08	-
	16QAM	1	0	1	23.0	-	22.29	-
		1	37	1	23.0	-	22.15	-
		1	74	1	23.0	-	22.19	-
		36	0	2	22.0	-	21.09	-
		36	19	2	22.0	-	21.13	-
		36	39	2	22.0	-	21.03	-
		75	0	2	22.0	-	21.08	-
	64QAM	1	0	2	22.0	-	20.88	-
		1	37	2	22.0	-	20.95	-
		1	74	2	22.0	-	20.98	-
		36	0	3	21.0	-	19.59	-
		36	19	3	21.0	-	19.71	-
		36	39	3	21.0	-	19.71	-
		75	0	3	21.0	-	19.57	-
	256QAM	1	0	5	19.0	-	18.28	-
		1	37	5	19.0	-	18.11	-
		1	74	5	19.0	-	18.23	-
		36	0	5	19.0	-	18.06	-
		36	19	5	19.0	-	18.15	-
		36	39	5	19.0	-	18.00	-
		75	0	5	19.0	-	18.09	-

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26740	26865	26990
						Freq(MHz)		
						819	831.5	844
10	QPSK	1	0	0	24.0	22.96	22.73	22.69
		1	24	0	24.0	22.78	22.70	22.59
		1	49	0	24.0	22.61	22.57	22.55
		25	0	1	23.0	21.92	21.77	21.74
		25	12	1	23.0	21.91	21.81	21.73
		25	25	1	23.0	21.85	21.71	21.69
		50	0	1	23.0	21.92	21.78	21.67
	16QAM	1	0	1	23.0	22.04	21.98	21.68
		1	24	1	23.0	21.85	22.06	21.66
		1	49	1	23.0	21.74	21.82	21.53
		25	0	2	22.0	20.95	20.79	20.77
		25	12	2	22.0	20.97	20.83	20.72
		25	25	2	22.0	20.86	20.74	20.70
		50	0	2	22.0	20.93	20.80	20.68
	64QAM	1	0	2	22.0	20.99	21.09	21.14
		1	24	2	22.0	20.83	21.12	20.78
		1	49	2	22.0	20.78	20.56	20.15
		25	0	3	21.0	19.93	19.83	19.78
		25	12	3	21.0	19.98	19.84	19.58
		25	25	3	21.0	19.88	19.77	19.15
		50	0	3	21.0	19.94	19.84	19.59
	256QAM	1	0	5	19.0	17.94	17.83	17.82
		1	24	5	19.0	18.18	17.95	17.73
		1	49	5	19.0	17.82	17.86	17.84
		25	0	5	19.0	17.97	17.80	17.71
		25	12	5	19.0	17.96	17.83	17.73
		25	25	5	19.0	17.84	17.76	17.62
		50	0	5	19.0	17.91	17.86	17.69

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26715	26865	27015
						Freq(MHz)		
						816.5	831.5	846.5
5	QPSK	1	0	0	24.0	23.02	22.77	22.60
		1	12	0	24.0	23.03	22.83	22.73
		1	24	0	24.0	22.93	22.78	22.56
		12	0	1	23.0	22.17	21.91	21.69
		12	6	1	23.0	22.16	21.95	21.78
		12	13	1	23.0	22.09	21.87	21.65
		25	0	1	23.0	22.11	21.89	21.64
	16QAM	1	0	1	23.0	22.26	22.09	21.58
		1	12	1	23.0	22.51	22.20	22.03
		1	24	1	23.0	22.51	22.10	21.61
		12	0	2	22.0	21.19	20.98	20.76
		12	6	2	22.0	21.13	20.99	20.84
		12	13	2	22.0	21.18	20.97	20.68
		25	0	2	22.0	21.09	20.93	20.66
	64QAM	1	0	2	22.0	20.35	20.99	20.36
		1	12	2	22.0	20.72	21.09	20.38
		1	24	2	22.0	20.62	20.87	20.10
		12	0	3	21.0	19.50	19.96	19.31
		12	6	3	21.0	19.61	20.07	19.20
		12	13	3	21.0	19.44	19.97	19.17
		25	0	3	21.0	19.41	19.97	19.22
	256QAM	1	0	5	19.0	18.32	17.98	17.78
		1	12	5	19.0	18.27	18.03	17.80
		1	24	5	19.0	18.32	18.02	17.87
		12	0	5	19.0	18.18	17.97	17.68
		12	6	5	19.0	18.13	17.93	17.74
		12	13	5	19.0	18.15	17.96	17.73
		25	0	5	19.0	18.15	17.91	17.77

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26705	26865	27025
						Freq(MHz)		
						815.5	831.5	847.5
3	QPSK	1	0	0	24.0	22.89	22.62	22.44
		1	7	0	24.0	22.96	22.68	22.45
		1	14	0	24.0	22.80	22.65	22.43
		8	0	1	23.0	22.09	21.79	21.59
		8	4	1	23.0	22.08	21.81	21.60
		8	7	1	23.0	21.97	21.76	21.47
		15	0	1	23.0	22.04	21.80	21.55
	16QAM	1	0	1	23.0	22.27	22.13	21.71
		1	7	1	23.0	22.35	22.01	21.78
		1	14	1	23.0	22.34	22.12	21.85
		8	0	2	22.0	21.17	20.88	20.67
		8	4	2	22.0	21.15	20.86	20.76
		8	7	2	22.0	21.01	20.94	20.66
		15	0	2	22.0	21.07	20.84	20.62
	64QAM	1	0	2	22.0	20.90	20.99	20.20
		1	7	2	22.0	20.81	21.00	20.36
		1	14	2	22.0	20.88	20.84	20.51
		8	0	3	21.0	19.48	19.76	19.11
		8	4	3	21.0	19.56	19.91	19.19
		8	7	3	21.0	19.53	19.80	19.11
		15	0	3	21.0	19.52	19.84	19.18
	256QAM	1	0	5	19.0	18.02	17.93	17.82
		1	7	5	19.0	18.08	17.98	17.64
		1	14	5	19.0	17.89	17.90	17.58
		8	0	5	19.0	18.12	17.84	17.61
		8	4	5	19.0	18.13	17.93	17.75
		8	7	5	19.0	18.18	17.83	17.64
		15	0	5	19.0	18.06	17.91	17.66

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26697	26865	27033
						Freq(MHz)		
						814.7	831.5	848.3
1.4	QPSK	1	0	0	24.0	22.90	22.69	22.53
		1	2	0	24.0	23.02	22.63	22.51
		1	5	0	24.0	22.89	22.59	22.33
		3	0	0	24.0	22.90	22.68	22.39
		3	1	0	24.0	22.97	22.67	22.49
		3	3	0	24.0	22.86	22.61	22.41
		6	0	1	23.0	21.97	21.72	21.46
	16QAM	1	0	1	23.0	22.39	22.13	21.71
		1	2	1	23.0	22.44	22.07	21.72
		1	5	1	23.0	22.24	22.36	21.71
		3	0	1	23.0	22.09	21.90	21.57
		3	1	1	23.0	22.18	21.88	21.76
		3	3	1	23.0	22.12	21.83	21.49
		6	0	2	22.0	21.05	20.72	20.53
	64QAM	1	0	2	22.0	20.72	21.01	20.40
		1	2	2	22.0	20.71	20.87	20.26
		1	5	2	22.0	20.86	20.90	20.22
		3	0	2	22.0	20.56	20.89	20.19
		3	1	2	22.0	20.76	20.89	20.15
		3	3	2	22.0	20.63	20.84	20.41
		6	0	3	21.0	19.52	19.78	19.22
	256QAM	1	0	5	19.0	18.29	17.67	17.75
		1	2	5	19.0	18.48	18.25	17.59
		1	5	5	19.0	18.07	17.77	17.49
		3	0	5	19.0	18.18	17.99	17.59
		3	1	5	19.0	18.14	17.99	17.59
		3	3	5	19.0	18.22	17.75	17.70
		6	0	5	19.0	18.08	17.81	17.62

Band 26 Red

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	26865	-
						Freq(MHz)		
						-	831.5	-
15	QPSK	1	0	0	22.0	-	20.83	-
		1	37	0	22.0	-	20.50	-
		1	74	0	22.0	-	20.48	-
		36	0	0	22.0	-	20.73	-
		36	19	0	22.0	-	20.69	-
		36	39	0	22.0	-	20.65	-
		75	0	0	22.0	-	20.69	-
	16QAM	1	0	0	22.0	-	21.15	-
		1	37	0	22.0	-	20.90	-
		1	74	0	22.0	-	20.76	-
		36	0	0	22.0	-	20.75	-
		36	19	0	22.0	-	20.70	-
		36	39	0	22.0	-	20.68	-
		75	0	0	22.0	-	20.72	-
	64QAM	1	0	0	22.0	-	21.05	-
		1	37	0	22.0	-	20.90	-
		1	74	0	22.0	-	20.96	-
		36	0	1	21.0	-	19.82	-
		36	19	1	21.0	-	19.72	-
		36	39	1	21.0	-	19.70	-
		75	0	1	21.0	-	19.74	-
	256QAM	1	0	3	19.0	-	17.74	-
		1	37	3	19.0	-	17.94	-
		1	74	3	19.0	-	17.53	-
		36	0	3	19.0	-	17.71	-
		36	19	3	19.0	-	17.74	-
		36	39	3	19.0	-	17.70	-
		75	0	3	19.0	-	17.79	-

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26740	26865	26990
						Freq(MHz)		
						819	831.5	844
10	QPSK	1	0	0	22.0	20.65	20.62	20.49
		1	24	0	22.0	20.64	20.61	20.51
		1	49	0	22.0	20.63	20.63	20.40
		25	0	0	22.0	20.72	20.71	20.57
		25	12	0	22.0	20.71	20.68	20.54
		25	25	0	22.0	20.69	20.58	20.55
		50	0	0	22.0	20.65	20.62	20.47
	16QAM	1	0	0	22.0	21.11	20.96	20.86
		1	24	0	22.0	21.10	20.91	20.97
		1	49	0	22.0	21.11	20.92	20.70
		25	0	0	22.0	20.88	20.70	20.64
		25	12	0	22.0	20.94	20.76	20.53
		25	25	0	22.0	20.84	20.63	20.46
		50	0	0	22.0	20.90	20.71	20.55
	64QAM	1	0	0	22.0	20.86	21.02	20.66
		1	24	0	22.0	21.10	20.94	20.58
		1	49	0	22.0	20.98	20.77	20.09
		25	0	1	21.0	19.63	19.75	19.61
		25	12	1	21.0	19.90	19.75	19.61
		25	25	1	21.0	19.84	19.67	19.15
		50	0	1	21.0	19.78	19.74	19.62
	256QAM	1	0	3	19.0	18.00	17.53	17.68
		1	24	3	19.0	18.18	17.48	17.68
		1	49	3	19.0	17.89	17.79	17.53
		25	0	3	19.0	17.89	17.71	17.55
		25	12	3	19.0	17.95	17.74	17.61
		25	25	3	19.0	17.85	17.66	17.52
		50	0	3	19.0	17.95	17.71	17.54

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26715	26865	27015
						Freq(MHz)		
						816.5	831.5	846.5
5	QPSK	1	0	0	22.0	20.72	20.54	20.40
		1	12	0	22.0	20.82	20.61	20.45
		1	24	0	22.0	20.74	20.57	20.35
		12	0	0	22.0	20.72	20.71	20.59
		12	6	0	22.0	20.71	20.72	20.56
		12	13	0	22.0	20.70	20.68	20.49
		25	0	0	22.0	20.71	20.60	20.44
	16QAM	1	0	0	22.0	21.18	20.75	20.80
		1	12	0	22.0	21.21	20.87	20.82
		1	24	0	22.0	21.14	21.00	20.69
		12	0	0	22.0	21.03	20.78	20.57
		12	6	0	22.0	21.08	20.79	20.67
		12	13	0	22.0	20.94	20.72	20.52
		25	0	0	22.0	20.92	20.74	20.53
	64QAM	1	0	0	22.0	20.25	20.71	20.60
		1	12	0	22.0	20.75	20.95	20.21
		1	24	0	22.0	20.53	20.96	20.40
		12	0	1	21.0	19.48	19.84	19.22
		12	6	1	21.0	19.65	19.85	19.25
		12	13	1	21.0	19.51	19.73	19.11
		25	0	1	21.0	19.38	19.80	19.25
	256QAM	1	0	3	19.0	17.99	17.84	17.57
		1	12	3	19.0	17.94	17.82	17.76
		1	24	3	19.0	18.10	17.79	17.41
		12	0	3	19.0	18.01	17.81	17.52
		12	6	3	19.0	17.99	17.82	17.68
		12	13	3	19.0	17.91	17.69	17.55
		25	0	3	19.0	18.00	17.72	17.58

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26705	26865	27025
						Freq(MHz)		
						815.5	831.5	847.5
3	QPSK	1	0	0	22.0	20.81	20.54	20.45
		1	7	0	22.0	20.77	20.55	20.48
		1	14	0	22.0	20.78	20.61	20.39
		8	0	0	22.0	20.72	20.66	20.53
		8	4	0	22.0	20.69	20.72	20.52
		8	7	0	22.0	20.70	20.69	20.47
		15	0	0	22.0	20.66	20.51	20.44
	16QAM	1	0	0	22.0	21.21	20.31	20.91
		1	7	0	22.0	21.21	21.01	20.92
		1	14	0	22.0	21.11	20.99	20.84
		8	0	0	22.0	21.10	20.77	20.66
		8	4	0	22.0	21.09	20.80	20.61
		8	7	0	22.0	20.92	20.74	20.52
		15	0	0	22.0	20.93	20.70	20.56
	64QAM	1	0	0	22.0	20.58	20.86	20.27
		1	7	0	22.0	20.27	20.84	20.60
		1	14	0	22.0	20.61	21.03	20.11
		8	0	1	21.0	19.30	19.87	19.22
		8	4	1	21.0	19.38	19.74	19.12
		8	7	1	21.0	19.53	19.73	19.02
		15	0	1	21.0	19.46	19.72	19.14
	256QAM	1	0	3	19.0	17.83	17.83	17.70
		1	7	3	19.0	17.86	17.99	17.31
		1	14	3	19.0	18.02	17.75	17.46
		8	0	3	19.0	17.94	17.77	17.60
		8	4	3	19.0	18.07	17.78	17.57
		8	7	3	19.0	17.88	17.77	17.51
		15	0	3	19.0	17.93	17.77	17.60

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26697	26865	27033
						Freq(MHz)		
						814.7	831.5	848.3
1.4	QPSK	1	0	0	22.0	20.73	20.55	20.41
		1	2	0	22.0	20.79	20.59	20.48
		1	5	0	22.0	20.67	20.47	20.40
		3	0	0	22.0	20.67	20.57	20.42
		3	1	0	22.0	20.72	20.62	20.34
		3	3	0	22.0	20.71	20.47	20.26
		6	0	0	22.0	20.71	20.59	20.34
	16QAM	1	0	0	22.0	21.16	20.80	20.77
		1	2	0	22.0	21.18	20.90	20.91
		1	5	0	22.0	21.11	20.97	20.76
		3	0	0	22.0	20.97	20.66	20.55
		3	1	0	22.0	21.02	20.69	20.52
		3	3	0	22.0	20.99	20.62	20.46
		6	0	0	22.0	20.87	20.62	20.50
	64QAM	1	0	0	22.0	20.40	20.96	20.19
		1	2	0	22.0	20.86	21.06	20.18
		1	5	0	22.0	20.52	20.77	20.27
		3	0	0	22.0	20.23	20.72	20.12
		3	1	0	22.0	20.28	20.82	20.17
		3	3	0	22.0	20.37	20.51	20.15
		6	0	1	21.0	19.32	19.61	19.08
	256QAM	1	0	3	19.0	17.91	17.97	17.65
		1	2	3	19.0	17.94	18.01	17.75
		1	5	3	19.0	17.55	17.64	17.55
		3	0	3	19.0	17.97	17.71	17.50
		3	1	3	19.0	18.03	17.79	17.76
		3	3	3	19.0	17.97	17.80	17.54
		6	0	3	19.0	17.91	17.62	17.44

Band 38 Full

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	38000	-
						Freq(MHz)		
						-	2595	-
20	QPSK	1	0	0	24.0	-	23.19	-
		1	49	0	24.0	-	23.08	-
		1	99	0	24.0	-	23.11	-
		50	0	1	23.0	-	22.16	-
		50	24	1	23.0	-	22.17	-
		50	50	1	23.0	-	22.19	-
		100	0	1	23.0	-	22.12	-
	16QAM	1	0	1	23.0	-	22.51	-
		1	49	1	23.0	-	22.42	-
		1	99	1	23.0	-	22.36	-
		50	0	2	22.0	-	21.21	-
		50	24	2	22.0	-	21.22	-
		50	50	2	22.0	-	21.24	-
		100	0	2	22.0	-	21.20	-
	64QAM	1	0	2	22.0	-	21.42	-
		1	49	2	22.0	-	21.43	-
		1	99	2	22.0	-	21.40	-
		50	0	3	21.0	-	20.23	-
		50	24	3	21.0	-	20.25	-
		50	50	3	21.0	-	20.26	-
		100	0	3	21.0	-	20.21	-
	256QAM	1	0	5	19.0	-	18.76	-
		1	49	5	19.0	-	18.73	-
		1	99	5	19.0	-	18.43	-
		50	0	5	19.0	-	18.26	-
		50	24	5	19.0	-	18.26	-
		50	50	5	19.0	-	18.29	-
		100	0	5	19.0	-	18.23	-

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37825	38000	38175
						Freq(MHz)		
						2577.5	2595	2612.5
15	QPSK	1	0	0	24.0	23.07	23.15	23.14
		1	37	0	24.0	23.06	23.11	23.02
		1	74	0	24.0	23.01	23.08	23.00
		36	0	1	23.0	22.14	22.20	22.14
		36	19	1	23.0	22.19	22.16	22.19
		36	39	1	23.0	22.21	22.23	22.15
		75	0	1	23.0	22.19	22.17	22.13
	16QAM	1	0	1	23.0	22.45	22.97	22.37
		1	37	1	23.0	22.34	22.91	22.30
		1	74	1	23.0	22.39	22.86	22.30
		36	0	2	22.0	21.19	21.22	21.17
		36	19	2	22.0	21.21	21.18	21.21
		36	39	2	22.0	21.22	21.24	21.19
		75	0	2	22.0	21.23	21.15	21.13
	64QAM	1	0	2	22.0	21.38	21.25	21.33
		1	37	2	22.0	21.35	21.12	21.35
		1	74	2	22.0	21.35	21.08	21.36
		36	0	3	21.0	20.24	20.25	20.17
		36	19	3	21.0	20.27	20.19	20.23
		36	39	3	21.0	20.25	20.26	20.23
		75	0	3	21.0	20.23	20.17	20.12
	256QAM	1	0	5	19.0	18.55	18.35	18.71
		1	37	5	19.0	18.59	18.54	18.55
		1	74	5	19.0	18.65	18.52	18.58
		36	0	5	19.0	18.15	18.27	18.12
		36	19	5	19.0	18.21	18.24	18.18
		36	39	5	19.0	18.20	18.26	18.14
		75	0	5	19.0	18.24	18.22	18.14

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37800	38000	38200
						Freq(MHz)		
						2575	2595	2615
10	QPSK	1	0	0	24.0	23.14	23.16	23.11
		1	24	0	24.0	23.09	23.18	23.05
		1	49	0	24.0	23.16	23.11	23.04
		25	0	1	23.0	22.24	22.17	22.11
		25	12	1	23.0	22.23	22.23	22.16
		25	25	1	23.0	22.25	22.28	22.20
		50	0	1	23.0	22.20	22.18	22.12
	16QAM	1	0	1	23.0	22.56	22.54	22.47
		1	24	1	23.0	22.48	22.49	22.49
		1	49	1	23.0	22.53	22.46	22.38
		25	0	2	22.0	21.27	21.18	21.11
		25	12	2	22.0	21.23	21.22	21.13
		25	25	2	22.0	21.26	21.25	21.13
		50	0	2	22.0	21.21	21.21	21.14
	64QAM	1	0	2	22.0	21.50	21.53	21.44
		1	24	2	22.0	21.43	21.55	21.48
		1	49	2	22.0	21.42	21.43	21.35
		25	0	3	21.0	20.24	20.27	20.21
		25	12	3	21.0	20.23	20.27	20.20
		25	25	3	21.0	20.29	20.33	20.27
		50	0	3	21.0	20.27	20.25	20.19
	256QAM	1	0	5	19.0	18.72	18.77	18.61
		1	24	5	19.0	18.62	18.67	18.63
		1	49	5	19.0	18.67	18.63	18.68
		25	0	5	19.0	18.20	18.19	18.14
		25	12	5	19.0	18.24	18.17	18.15
		25	25	5	19.0	18.23	18.26	18.17
		50	0	5	19.0	18.26	18.24	18.16

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37775	38000	38225
						Freq(MHz)		
						2572.5	2595	2617.5
5	QPSK	1	0	0	24.0	23.08	23.04	23.03
		1	12	0	24.0	23.10	23.10	23.10
		1	24	0	24.0	23.11	23.14	23.13
		12	0	1	23.0	22.19	22.19	22.15
		12	6	1	23.0	22.17	22.20	22.18
		12	13	1	23.0	22.16	22.23	22.16
		25	0	1	23.0	22.15	22.19	22.12
	16QAM	1	0	1	23.0	22.44	22.68	22.38
		1	12	1	23.0	22.45	22.68	22.46
		1	24	1	23.0	22.49	22.68	22.42
		12	0	2	22.0	21.22	21.25	21.17
		12	6	2	22.0	21.23	21.26	21.23
		12	13	2	22.0	21.23	21.30	21.15
		25	0	2	22.0	21.22	21.26	21.15
	64QAM	1	0	2	22.0	21.33	21.40	21.39
		1	12	2	22.0	21.36	21.51	21.35
		1	24	2	22.0	21.42	21.49	21.38
		12	0	3	21.0	20.32	20.26	20.31
		12	6	3	21.0	20.29	20.29	20.30
		12	13	3	21.0	20.26	20.30	20.29
		25	0	3	21.0	20.25	20.22	20.26
	256QAM	1	0	5	19.0	18.61	18.14	18.64
		1	12	5	19.0	18.66	18.21	18.58
		1	24	5	19.0	18.67	18.23	18.61
		12	0	5	19.0	18.25	18.22	18.17
		12	6	5	19.0	18.28	18.22	18.24
		12	13	5	19.0	18.23	18.21	18.15
		25	0	5	19.0	18.21	18.23	18.15

Band 38 Red

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	38000	-
						Freq(MHz)		
						-	2595	-
20	QPSK	1	0	-	17.5	-	16.48	-
		1	49	-	17.5	-	16.43	-
		1	99	-	17.5	-	16.44	-
		50	0	-	17.5	-	16.42	-
		50	24	-	17.5	-	16.43	-
		50	50	-	17.5	-	16.49	-
		100	0	-	17.5	-	16.40	-
	16QAM	1	0	-	17.5	-	16.51	-
		1	49	-	17.5	-	16.46	-
		1	99	-	17.5	-	16.48	-
		50	0	-	17.5	-	16.43	-
		50	24	-	17.5	-	16.41	-
		50	50	-	17.5	-	16.45	-
		100	0	-	17.5	-	16.44	-
	64QAM	1	0	-	17.5	-	16.73	-
		1	49	-	17.5	-	16.60	-
		1	99	-	17.5	-	16.64	-
		50	0	-	17.5	-	16.49	-
		50	24	-	17.5	-	16.48	-
		50	50	-	17.5	-	16.52	-
		100	0	-	17.5	-	16.44	-
	256QAM	1	0	-	17.5	-	16.91	-
		1	49	-	17.5	-	16.76	-
		1	99	-	17.5	-	16.69	-
		50	0	-	17.5	-	16.41	-
		50	24	-	17.5	-	16.37	-
		50	50	-	17.5	-	16.43	-
		100	0	-	17.5	-	16.41	-

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37825	38000	38175
						Freq(MHz)		
						2577.5	2595	2612.5
15	QPSK	1	0	-	17.5	16.44	16.45	16.41
		1	37	-	17.5	16.36	16.33	16.30
		1	74	-	17.5	16.37	16.34	16.26
		36	0	-	17.5	16.48	16.44	16.39
		36	19	-	17.5	16.47	16.36	16.41
		36	39	-	17.5	16.46	16.46	16.40
		75	0	-	17.5	16.43	16.44	16.34
	16QAM	1	0	-	17.5	16.53	16.55	16.47
		1	37	-	17.5	16.51	16.51	16.52
		1	74	-	17.5	16.48	16.46	16.38
		36	0	-	17.5	16.50	16.43	16.38
		36	19	-	17.5	16.47	16.38	16.42
		36	39	-	17.5	16.48	16.43	16.39
		75	0	-	17.5	16.56	16.47	16.41
	64QAM	1	0	-	17.5	16.63	16.66	16.64
		1	37	-	17.5	16.67	16.64	16.55
		1	74	-	17.5	16.67	16.71	16.57
		36	0	-	17.5	16.58	16.43	16.46
		36	19	-	17.5	16.52	16.41	16.48
		36	39	-	17.5	16.56	16.53	16.45
		75	0	-	17.5	16.50	16.50	16.36
	256QAM	1	0	-	17.5	16.92	16.82	16.85
		1	37	-	17.5	16.79	16.80	16.76
		1	74	-	17.5	16.78	16.75	16.66
		36	0	-	17.5	16.49	16.43	16.35
		36	19	-	17.5	16.44	16.36	16.39
		36	39	-	17.5	16.45	16.44	16.38
		75	0	-	17.5	16.41	16.41	16.26

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37800	38000	38200
						Freq(MHz)		
						2575	2595	2615
10	QPSK	1	0	-	17.5	16.47	16.46	16.38
		1	24	-	17.5	16.39	16.40	16.33
		1	49	-	17.5	16.46	16.43	16.32
		25	0	-	17.5	16.46	16.36	16.34
		25	12	-	17.5	16.48	16.37	16.35
		25	25	-	17.5	16.45	16.42	16.38
		50	0	-	17.5	16.46	16.41	16.34
	16QAM	1	0	-	17.5	16.61	16.57	16.56
		1	24	-	17.5	16.39	16.57	16.49
		1	49	-	17.5	16.54	16.45	16.45
		25	0	-	17.5	16.54	16.37	16.34
		25	12	-	17.5	16.50	16.42	16.36
		25	25	-	17.5	16.48	16.48	16.41
		50	0	-	17.5	16.45	16.44	16.33
	64QAM	1	0	-	17.5	16.94	16.77	16.71
		1	24	-	17.5	16.77	16.79	16.80
		1	49	-	17.5	16.80	16.82	16.70
		25	0	-	17.5	16.55	16.47	16.44
		25	12	-	17.5	16.58	16.48	16.44
		25	25	-	17.5	16.54	16.55	16.51
		50	0	-	17.5	16.53	16.51	16.37
	256QAM	1	0	-	17.5	16.97	16.95	16.87
		1	24	-	17.5	16.88	16.88	16.79
		1	49	-	17.5	16.89	16.88	16.80
		25	0	-	17.5	16.37	16.30	16.29
		25	12	-	17.5	16.44	16.33	16.27
		25	25	-	17.5	16.39	16.36	16.34
		50	0	-	17.5	16.44	16.44	16.34

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37775	38000	38225
						Freq(MHz)		
						2572.5	2595	2617.5
5	QPSK	1	0	-	17.5	16.38	16.35	16.31
		1	12	-	17.5	16.47	16.46	16.32
		1	24	-	17.5	16.46	16.47	16.34
		12	0	-	17.5	16.43	16.35	16.35
		12	6	-	17.5	16.44	16.47	16.38
		12	13	-	17.5	16.38	16.44	16.36
		25	0	-	17.5	16.44	16.45	16.34
	16QAM	1	0	-	17.5	16.54	16.67	16.45
		1	12	-	17.5	16.51	16.76	16.47
		1	24	-	17.5	16.53	16.83	16.48
		12	0	-	17.5	16.53	16.39	16.50
		12	6	-	17.5	16.66	16.48	16.49
		12	13	-	17.5	16.57	16.45	16.46
		25	0	-	17.5	16.45	16.49	16.39
	64QAM	1	0	-	17.5	16.69	16.33	16.63
		1	12	-	17.5	16.72	16.39	16.63
		1	24	-	17.5	16.74	16.37	16.67
		12	0	-	17.5	16.50	16.49	16.48
		12	6	-	17.5	16.55	16.56	16.48
		12	13	-	17.5	16.52	16.58	16.47
		25	0	-	17.5	16.50	16.43	16.42
	256QAM	1	0	-	17.5	16.37	16.17	16.30
		1	12	-	17.5	16.43	16.22	16.28
		1	24	-	17.5	16.34	16.22	16.31
		12	0	-	17.5	16.60	16.35	16.53
		12	6	-	17.5	16.58	16.41	16.54
		12	13	-	17.5	16.56	16.43	16.47
		25	0	-	17.5	16.36	16.46	16.31

Band 41_FCC Full

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39750	40185	40620	41055	41490
						Freq(MHz)				
						2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	0	24.8	23.03	22.94	23.19	23.18	23.20
		1	49	0	24.8	22.84	22.87	22.95	23.03	23.01
		1	99	0	24.8	22.85	22.98	23.05	23.04	23.19
		50	0	1	23.8	21.98	22.01	22.14	22.15	22.23
		50	24	1	23.8	21.97	22.12	22.22	22.14	22.22
		50	50	1	23.8	21.96	22.09	22.18	22.12	22.19
		100	0	1	23.8	21.94	22.09	22.19	22.14	22.21
	16QAM	1	0	1	23.8	22.56	22.34	22.42	22.51	22.56
		1	49	1	23.8	22.31	22.25	22.31	22.33	22.19
		1	99	1	23.8	22.31	22.27	22.23	22.35	22.16
		50	0	2	22.8	21.25	21.04	21.13	21.18	21.01
		50	24	2	22.8	21.25	21.17	21.21	21.20	21.02
		50	50	2	22.8	21.18	21.13	21.18	21.16	21.00
		100	0	2	22.8	21.22	21.14	21.19	21.18	20.96
	64QAM	1	0	2	22.8	21.59	21.33	21.44	21.46	21.32
		1	49	2	22.8	21.37	21.26	21.31	21.26	21.18
		1	99	2	22.8	21.30	21.32	21.38	21.40	21.22
		50	0	3	21.8	20.26	20.09	20.16	20.23	20.05
		50	24	3	21.8	20.29	20.21	20.25	20.25	20.04
		50	50	3	21.8	20.22	20.18	20.20	20.20	20.07
		100	0	3	21.8	20.26	20.13	20.21	20.19	20.01
	256QAM	1	0	5	19.8	18.54	18.45	18.64	18.70	18.52
		1	49	5	19.8	18.48	18.41	18.58	18.46	18.36
		1	99	5	19.8	18.44	18.32	18.16	18.49	18.20
		50	0	5	19.8	18.25	18.09	18.18	18.22	18.05
		50	24	5	19.8	18.28	18.18	18.23	18.21	18.05
		50	50	5	19.8	18.19	18.17	18.21	18.18	18.08
		100	0	5	19.8	18.26	18.17	18.23	18.20	18.00

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39725	40173	40620	41068	41515
						Freq(MHz)				
						2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	0	24.8	23.12	22.97	23.08	23.06	22.95
		1	37	0	24.8	23.06	22.94	23.05	22.99	22.84
		1	74	0	24.8	23.00	23.06	23.06	23.13	22.96
		36	0	1	23.8	22.28	22.01	22.13	22.20	21.97
		36	19	1	23.8	22.22	22.09	22.17	22.16	21.96
		36	39	1	23.8	22.18	22.12	22.16	22.15	21.99
		75	0	1	23.8	22.19	22.07	22.15	22.17	21.96
	16QAM	1	0	1	23.8	22.52	22.46	22.37	22.40	22.38
		1	37	1	23.8	22.26	22.18	22.35	22.28	22.14
		1	74	1	23.8	22.38	22.35	22.35	22.43	22.20
		36	0	2	22.8	21.28	21.05	21.15	21.23	21.04
		36	19	2	22.8	21.22	21.12	21.20	21.20	20.99
		36	39	2	22.8	21.21	21.13	21.19	21.20	21.06
		75	0	2	22.8	21.25	21.14	21.21	21.23	20.99
	64QAM	1	0	2	22.8	21.57	21.27	21.39	21.34	21.21
		1	37	2	22.8	21.28	21.22	21.31	21.29	21.14
		1	74	2	22.8	21.35	21.35	21.36	21.41	21.24
		36	0	3	21.8	20.35	20.10	20.17	20.25	20.07
		36	19	3	21.8	20.29	20.16	20.22	20.21	20.02
		36	39	3	21.8	20.26	20.17	20.23	20.24	20.08
		75	0	3	21.8	20.23	20.12	20.19	20.20	19.99
	256QAM	1	0	5	19.8	18.44	18.41	18.60	18.62	18.46
		1	37	5	19.8	18.46	18.42	18.53	18.49	18.42
		1	74	5	19.8	18.50	18.47	18.55	18.54	18.48
		36	0	5	19.8	18.26	18.02	18.08	18.15	17.98
		36	19	5	19.8	18.20	18.09	18.13	18.13	17.93
		36	39	5	19.8	18.18	18.09	18.11	18.12	17.98
		75	0	5	19.8	18.24	18.12	18.18	18.17	17.98

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39700	40160	40620	41080	41540
						Freq(MHz)				
						2501	2547	2593	2639	2685
10	QPSK	1	0	0	24.8	23.11	23.00	23.15	23.08	22.96
		1	24	0	24.8	23.09	22.97	23.14	23.06	22.87
		1	49	0	24.8	23.12	23.03	23.12	23.01	22.88
		25	0	1	23.8	22.24	22.10	22.12	22.17	21.98
		25	12	1	23.8	22.25	22.12	22.21	22.18	21.97
		25	25	1	23.8	22.19	22.08	22.19	22.14	22.03
		50	0	1	23.8	22.23	22.08	22.20	22.15	21.95
	16QAM	1	0	1	23.8	22.64	22.52	22.50	22.44	22.34
		1	24	1	23.8	22.49	22.35	22.46	22.46	22.27
		1	49	1	23.8	22.41	22.30	22.44	22.39	22.24
		25	0	2	22.8	21.22	21.08	21.04	21.15	20.97
		25	12	2	22.8	21.23	21.09	21.19	21.15	20.97
		25	25	2	22.8	21.16	21.05	21.11	21.16	21.04
		50	0	2	22.8	21.25	21.13	21.20	21.18	21.00
	64QAM	1	0	2	22.8	21.70	21.38	21.48	21.32	21.18
		1	24	2	22.8	21.55	21.47	21.45	21.47	21.20
		1	49	2	22.8	21.48	21.23	21.34	21.38	21.16
		25	0	3	21.8	20.32	20.16	20.21	20.25	20.04
		25	12	3	21.8	20.33	20.20	20.30	20.25	20.05
		25	25	3	21.8	20.27	20.17	20.26	20.23	20.10
		50	0	3	21.8	20.31	20.16	20.23	20.22	20.02
	256QAM	1	0	5	19.8	18.57	18.52	18.63	18.56	18.44
		1	24	5	19.8	18.49	18.57	18.78	18.63	18.51
		1	49	5	19.8	18.51	18.53	18.73	18.54	18.44
		25	0	5	19.8	18.26	18.13	18.16	18.17	17.99
		25	12	5	19.8	18.27	18.17	18.24	18.18	17.98
		25	25	5	19.8	18.20	18.14	18.22	18.15	18.03
		50	0	5	19.8	18.29	18.20	18.27	18.23	18.03

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39675	40148	40620	41093	41565
						Freq(MHz)				
						2498.5	2545.8	2593	2640.3	2687.5
5	QPSK	1	0	0	24.8	23.18	22.92	23.06	22.99	22.88
		1	12	0	24.8	23.17	22.99	23.15	23.10	22.96
		1	24	0	24.8	23.19	23.05	23.17	23.08	22.90
		12	0	1	23.8	22.25	22.09	22.20	22.16	22.06
		12	6	1	23.8	22.30	22.10	22.22	22.19	22.03
		12	13	1	23.8	22.26	22.08	22.19	22.18	21.94
		25	0	1	23.8	22.27	22.09	22.21	22.18	22.01
	16QAM	1	0	1	23.8	22.51	22.15	22.33	22.30	22.13
		1	12	1	23.8	22.53	22.27	22.49	22.49	22.33
		1	24	1	23.8	22.52	22.35	22.47	22.41	22.23
		12	0	2	22.8	21.29	21.10	21.21	21.18	21.06
		12	6	2	22.8	21.31	21.13	21.25	21.22	21.03
		12	13	2	22.8	21.26	21.13	21.20	21.15	21.04
		25	0	2	22.8	21.25	21.12	21.22	21.16	21.00
	64QAM	1	0	2	22.8	21.69	21.18	21.38	21.31	21.19
		1	12	2	22.8	21.67	21.39	21.41	21.35	21.19
		1	24	2	22.8	21.63	21.31	21.38	21.40	21.21
		12	0	3	21.8	20.42	20.21	20.35	20.31	20.14
		12	6	3	21.8	20.44	20.23	20.32	20.33	20.18
		12	13	3	21.8	20.41	20.23	20.32	20.29	20.15
		25	0	3	21.8	20.32	20.16	20.24	20.22	20.09
	256QAM	1	0	5	19.8	18.55	18.38	18.63	18.53	18.47
		1	12	5	19.8	18.58	18.52	18.69	18.63	18.46
		1	24	5	19.8	18.53	18.54	18.69	18.60	18.46
		12	0	5	19.8	18.30	18.14	18.24	18.21	18.07
		12	6	5	19.8	18.33	18.20	18.29	18.21	18.05
		12	13	5	19.8	18.28	18.18	18.25	18.17	18.01
		25	0	5	19.8	18.25	18.13	18.20	18.17	18.02

Band 41_FCC Red

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39750	40185	40620	41055	41490
						Freq(MHz)				
						2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	-	16.7	15.23	15.11	15.28	15.22	15.37
		1	49	-	16.7	15.08	15.10	15.13	15.08	14.94
		1	99	-	16.7	15.05	15.07	15.24	15.24	14.99
		50	0	-	16.7	15.17	15.02	15.19	15.24	15.29
		50	24	-	16.7	15.20	15.12	15.25	15.25	15.03
		50	50	-	16.7	15.13	15.10	15.24	15.21	15.07
		100	0	-	16.7	15.15	15.07	15.24	15.21	15.03
	16QAM	1	0	-	16.7	15.52	15.31	15.40	15.49	15.35
		1	49	-	16.7	15.37	15.23	15.40	15.27	15.07
		1	99	-	16.7	15.37	15.26	15.50	15.24	15.22
		50	0	-	16.7	15.20	15.04	15.18	15.28	15.09
		50	24	-	16.7	15.21	15.14	15.27	15.24	15.06
		50	50	-	16.7	15.14	15.11	15.25	15.23	15.06
		100	0	-	16.7	15.14	15.04	15.20	15.23	14.98
	64QAM	1	0	-	16.7	15.55	15.25	15.60	15.68	15.50
		1	49	-	16.7	15.36	15.29	15.36	15.39	15.22
		1	99	-	16.7	15.27	15.22	15.42	15.46	15.21
		50	0	-	16.7	15.21	15.09	15.32	15.35	15.18
		50	24	-	16.7	15.26	15.16	15.36	15.36	15.13
		50	50	-	16.7	15.18	15.15	15.42	15.29	15.12
		100	0	-	16.7	15.15	15.07	15.28	15.23	15.02
	256QAM	1	0	-	16.7	15.73	15.61	15.78	15.53	15.67
		1	49	-	16.7	15.54	15.48	15.63	15.48	15.43
		1	99	-	16.7	15.25	15.34	15.53	15.43	15.19
		50	0	-	16.7	15.17	14.96	15.19	15.22	15.06
		50	24	-	16.7	15.21	15.05	15.29	15.23	15.05
		50	50	-	16.7	15.17	15.05	15.25	15.20	15.05
		100	0	-	16.7	15.18	15.02	15.26	15.17	15.02

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39725	40173	40620	41068	41515
						Freq(MHz)				
						2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	-	16.7	15.26	15.11	15.27	15.23	15.18
		1	37	-	16.7	15.09	14.94	15.14	15.18	15.05
		1	74	-	16.7	15.13	15.14	15.29	15.24	15.03
		36	0	-	16.7	15.25	15.04	15.24	15.25	15.10
		36	19	-	16.7	15.19	15.08	15.27	15.21	15.03
		36	39	-	16.7	15.18	15.09	15.28	15.24	15.09
		75	0	-	16.7	15.19	15.07	15.26	15.23	15.08
	16QAM	1	0	-	16.7	15.29	15.56	15.30	15.38	15.29
		1	37	-	16.7	15.19	15.44	15.22	15.27	15.07
		1	74	-	16.7	15.35	15.55	15.55	15.36	15.24
		36	0	-	16.7	15.26	15.02	15.19	15.26	15.10
		36	19	-	16.7	15.24	15.07	15.24	15.25	15.05
		36	39	-	16.7	15.13	15.09	15.25	15.24	15.08
		75	0	-	16.7	15.23	15.07	15.26	15.25	15.06
	64QAM	1	0	-	16.7	15.41	15.11	15.57	15.54	15.43
		1	37	-	16.7	15.47	15.09	15.45	15.41	15.25
		1	74	-	16.7	15.47	15.23	15.49	15.55	15.43
		36	0	-	16.7	15.32	14.93	15.28	15.37	15.18
		36	19	-	16.7	15.26	15.01	15.32	15.32	15.13
		36	39	-	16.7	15.25	14.98	15.35	15.33	15.14
		75	0	-	16.7	15.20	15.02	15.27	15.30	15.06
	256QAM	1	0	-	16.7	15.71	14.98	15.64	15.64	15.37
		1	37	-	16.7	15.49	14.70	15.57	15.65	15.44
		1	74	-	16.7	15.63	14.85	15.70	15.63	15.37
		36	0	-	16.7	15.21	14.90	15.25	15.26	15.11
		36	19	-	16.7	15.16	14.95	15.28	15.22	15.04
		36	39	-	16.7	15.11	14.95	15.30	15.23	15.10
		75	0	-	16.7	15.12	15.05	15.25	15.19	15.00

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39700	40160	40620	41080	41540
						Freq(MHz)				
						2501	2547	2593	2639	2685
10	QPSK	1	0	-	16.7	15.36	15.17	15.36	15.35	15.18
		1	24	-	16.7	15.26	15.19	15.34	15.32	15.05
		1	49	-	16.7	15.25	15.13	15.35	15.29	15.03
		25	0	-	16.7	15.28	15.10	15.27	15.28	15.07
		25	12	-	16.7	15.27	15.13	15.26	15.29	15.09
		25	25	-	16.7	15.26	15.11	15.22	15.26	15.12
		50	0	-	16.7	15.21	15.10	15.26	15.28	15.05
	16QAM	1	0	-	16.7	15.50	15.26	15.45	15.42	15.26
		1	24	-	16.7	15.41	15.31	15.45	15.29	15.26
		1	49	-	16.7	15.37	15.21	15.41	15.28	15.17
		25	0	-	16.7	15.34	15.15	15.23	15.31	15.10
		25	12	-	16.7	15.35	15.17	15.39	15.32	15.09
		25	25	-	16.7	15.27	15.13	15.32	15.27	15.11
		50	0	-	16.7	15.22	15.06	15.26	15.27	15.04
	64QAM	1	0	-	16.7	15.86	15.36	15.57	15.57	15.46
		1	24	-	16.7	15.72	15.55	15.55	15.56	15.45
		1	49	-	16.7	15.72	15.47	15.76	15.57	15.43
		25	0	-	16.7	15.42	15.21	15.34	15.38	15.16
		25	12	-	16.7	15.39	15.22	15.44	15.42	15.18
		25	25	-	16.7	15.33	15.21	15.37	15.39	15.18
		50	0	-	16.7	15.30	15.14	15.35	15.30	15.09
	256QAM	1	0	-	16.7	15.79	15.58	15.70	15.71	15.58
		1	24	-	16.7	15.64	15.62	15.66	15.68	15.48
		1	49	-	16.7	15.66	15.61	15.81	15.72	15.52
		25	0	-	16.7	15.23	15.03	15.18	15.22	14.99
		25	12	-	16.7	15.22	15.04	15.29	15.21	14.99
		25	25	-	16.7	15.15	15.02	15.27	15.20	15.02
		50	0	-	16.7	15.21	15.06	15.30	15.26	15.05

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	39675	40148	40620	41093	41565
						Freq(MHz)				
						2498.5	2545.8	2593	2640.3	2687.5
5	QPSK	1	0	-	16.7	15.30	15.06	15.23	15.18	15.06
		1	12	-	16.7	15.29	15.15	15.35	15.24	15.10
		1	24	-	16.7	15.26	15.16	15.33	15.27	15.05
		12	0	-	16.7	15.28	15.13	15.28	15.25	15.06
		12	6	-	16.7	15.27	15.14	15.27	15.28	15.10
		12	13	-	16.7	15.26	15.12	15.25	15.23	15.07
		25	0	-	16.7	15.27	15.11	15.25	15.26	15.09
	16QAM	1	0	-	16.7	15.64	15.16	15.33	15.31	15.08
		1	12	-	16.7	15.70	15.16	15.48	15.34	15.14
		1	24	-	16.7	15.67	15.26	15.23	15.32	15.18
		12	0	-	16.7	15.41	15.19	15.44	15.40	15.19
		12	6	-	16.7	15.33	15.25	15.46	15.39	15.24
		12	13	-	16.7	15.35	15.21	15.41	15.35	15.18
		25	0	-	16.7	15.31	15.14	15.34	15.29	15.11
	64QAM	1	0	-	16.7	15.13	15.37	15.57	15.47	15.42
		1	12	-	16.7	15.25	15.58	15.74	15.57	15.45
		1	24	-	16.7	15.10	15.66	15.75	15.56	15.41
		12	0	-	16.7	15.42	15.24	15.42	15.36	15.20
		12	6	-	16.7	15.46	15.24	15.45	15.39	15.22
		12	13	-	16.7	15.42	15.23	15.40	15.34	15.19
		25	0	-	16.7	15.29	15.20	15.29	15.35	15.16
	256QAM	1	0	-	16.7	15.21	14.90	15.60	15.58	15.43
		1	12	-	16.7	15.15	15.15	15.57	15.69	15.48
		1	24	-	16.7	15.08	15.02	15.58	15.61	15.40
		12	0	-	16.7	15.29	15.24	15.45	15.40	15.20
		12	6	-	16.7	15.27	15.24	15.49	15.42	15.22
		12	13	-	16.7	15.23	15.19	15.44	15.41	15.17
		25	0	-	16.7	15.30	15.06	15.29	15.22	15.04

Band 48_FCC Full / Red tune up is specified time averaged power

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	55340	55773	-	56207	56640
						Freq(MHz)				
						3560	3603.3	-	3646.7	3690
20	QPSK	1	0	-	8.5	7.27	7.37	-	7.41	7.36
		1	49	-	8.5	7.11	7.24	-	7.21	7.15
		1	99	-	8.5	7.28	7.33	-	7.23	7.11
		50	0	-	8.5	7.19	7.34	-	7.42	7.36
		50	24	-	8.5	7.21	7.31	-	7.39	7.30
		50	50	-	8.5	7.20	7.37	-	7.27	7.27
	16QAM	100	0	-	8.5	7.19	7.35	-	7.33	7.26
		1	0	-	8.5	7.26	7.59	-	7.69	7.36
		1	49	-	8.5	7.23	7.46	-	7.50	7.33
		1	99	-	8.5	7.26	7.46	-	7.51	7.32
		50	0	-	8.5	7.23	7.34	-	7.41	7.31
		50	24	-	8.5	7.21	7.41	-	7.39	7.27
	64QAM	50	50	-	8.5	7.20	7.38	-	7.35	7.28
		100	0	-	8.5	7.21	7.37	-	7.43	7.27
		1	0	-	8.5	7.24	7.46	-	7.65	7.44
		1	49	-	8.5	7.20	7.31	-	7.42	7.36
		1	99	-	8.5	7.18	7.30	-	7.40	7.20
		50	0	-	8.5	7.22	7.35	-	7.42	7.36
	256QAM	50	24	-	8.5	7.26	7.43	-	7.44	7.34
		50	50	-	8.5	7.25	7.41	-	7.35	7.27
		100	0	-	8.5	7.24	7.41	-	7.36	7.27
		1	0	-	8.5	7.23	7.40	-	7.48	7.49
		1	49	-	8.5	7.22	7.37	-	7.30	7.29
		1	99	-	8.5	7.04	7.21	-	7.08	7.00
		50	0	-	8.5	7.25	7.32	-	7.43	7.33
		50	24	-	8.5	7.23	7.35	-	7.40	7.30
		50	50	-	8.5	7.22	7.36	-	7.32	7.27
		100	0	-	8.5	7.20	7.34	-	7.42	7.26

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	55315	55765	-	56215	56665
						Freq(MHz)				
						3557.5	3602.5	-	3647.5	3692.5
15	QPSK	1	0	-	8.5	7.24	7.33	-	7.31	7.30
		1	37	-	8.5	7.10	7.26	-	7.26	7.12
		1	74	-	8.5	7.11	7.23	-	7.21	7.10
		36	0	-	8.5	7.26	7.33	-	7.39	7.31
		36	19	-	8.5	7.24	7.32	-	7.36	7.27
		36	39	-	8.5	7.21	7.36	-	7.34	7.23
		75	0	-	8.5	7.21	7.31	-	7.30	7.27
	16QAM	1	0	-	8.5	7.37	7.55	-	7.59	7.61
		1	37	-	8.5	7.23	7.47	-	7.46	7.41
		1	74	-	8.5	7.46	7.50	-	7.52	7.47
		36	0	-	8.5	7.28	7.38	-	7.41	7.36
		36	19	-	8.5	7.25	7.37	-	7.39	7.32
		36	39	-	8.5	7.23	7.38	-	7.36	7.23
		75	0	-	8.5	7.21	7.35	-	7.36	7.22
	64QAM	1	0	-	8.5	7.35	7.34	-	7.49	7.25
		1	37	-	8.5	7.17	7.35	-	7.37	7.17
		1	74	-	8.5	7.36	7.49	-	7.36	7.28
		36	0	-	8.5	7.33	7.40	-	7.41	7.32
		36	19	-	8.5	7.27	7.38	-	7.39	7.35
		36	39	-	8.5	7.24	7.39	-	7.38	7.34
		75	0	-	8.5	7.24	7.39	-	7.38	7.27
	256QAM	1	0	-	8.5	7.20	7.51	-	7.58	7.56
		1	37	-	8.5	7.25	7.47	-	7.37	7.34
		1	74	-	8.5	7.27	7.40	-	7.27	7.30
		36	0	-	8.5	7.26	7.36	-	7.40	7.32
		36	19	-	8.5	7.25	7.32	-	7.36	7.34
		36	39	-	8.5	7.20	7.33	-	7.34	7.22
		75	0	-	8.5	7.20	7.36	-	7.38	7.32

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modu- lation	UL RB Allocatio n	UL RB Start	Target MPR	Tune-up Limit (dBm)	55290	55757	-	56223	56690
						Freq(MHz)				
						3555	3601.7	-	3648.3	3695
10	QPSK	1	0	-	8.5	7.17	7.33	-	7.34	7.25
		1	24	-	8.5	7.12	7.30	-	7.20	7.15
		1	49	-	8.5	7.23	7.25	-	7.21	7.13
		25	0	-	8.5	7.25	7.25	-	7.33	7.28
		25	12	-	8.5	7.24	7.36	-	7.37	7.27
		25	25	-	8.5	7.22	7.37	-	7.35	7.25
		50	0	-	8.5	7.19	7.33	-	7.32	7.23
	16QAM	1	0	-	8.5	7.45	7.61	-	7.59	7.55
		1	24	-	8.5	7.29	7.54	-	7.45	7.40
		1	49	-	8.5	7.40	7.53	-	7.50	7.49
		25	0	-	8.5	7.20	7.41	-	7.35	7.28
		25	12	-	8.5	7.18	7.45	-	7.34	7.27
		25	25	-	8.5	7.20	7.44	-	7.33	7.25
		50	0	-	8.5	7.21	7.42	-	7.33	7.24
	64QAM	1	0	-	8.5	7.22	7.36	-	7.37	7.40
		1	24	-	8.5	7.16	7.37	-	7.36	7.23
		1	49	-	8.5	7.26	7.35	-	7.28	7.26
		25	0	-	8.5	7.24	7.40	-	7.38	7.29
		25	12	-	8.5	7.20	7.43	-	7.35	7.27
		25	25	-	8.5	7.19	7.44	-	7.37	7.28
		50	0	-	8.5	7.20	7.40	-	7.37	7.29
	256QAM	1	0	-	8.5	7.32	7.38	-	7.38	7.46
		1	24	-	8.5	7.22	7.42	-	7.45	7.26
		1	49	-	8.5	7.28	7.45	-	7.35	7.24
		25	0	-	8.5	7.29	7.38	-	7.39	7.25
		25	12	-	8.5	7.21	7.39	-	7.37	7.22
		25	25	-	8.5	7.19	7.40	-	7.39	7.20
		50	0	-	8.5	7.17	7.40	-	7.42	7.24

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	55265	55748	-	56232	56715
						Freq(MHz)				
						3552.5	3600.8	-	3649.2	3697.5
5	QPSK	1	0	-	8.5	7.16	7.34	-	7.29	7.22
		1	12	-	8.5	7.10	7.28	-	7.25	7.15
		1	24	-	8.5	7.17	7.37	-	7.32	7.18
		12	0	-	8.5	7.22	7.36	-	7.38	7.29
		12	6	-	8.5	7.23	7.37	-	7.37	7.26
		12	13	-	8.5	7.21	7.38	-	7.34	7.25
		25	0	-	8.5	7.15	7.36	-	7.32	7.21
	16QAM	1	0	-	8.5	7.38	7.51	-	7.62	7.45
		1	12	-	8.5	7.35	7.50	-	7.57	7.43
		1	24	-	8.5	7.38	7.58	-	7.55	7.42
		12	0	-	8.5	7.27	7.41	-	7.47	7.29
		12	6	-	8.5	7.25	7.39	-	7.39	7.28
		12	13	-	8.5	7.24	7.40	-	7.39	7.28
		25	0	-	8.5	7.20	7.39	-	7.38	7.24
	64QAM	1	0	-	8.5	7.19	7.42	-	7.36	7.20
		1	12	-	8.5	7.24	7.37	-	7.39	7.21
		1	24	-	8.5	7.25	7.47	-	7.38	7.38
		12	0	-	8.5	7.26	7.44	-	7.41	7.34
		12	6	-	8.5	7.25	7.40	-	7.38	7.33
		12	13	-	8.5	7.25	7.45	-	7.39	7.32
		25	0	-	8.5	7.23	7.39	-	7.37	7.27
	256QAM	1	0	-	8.5	7.19	7.49	-	7.52	7.41
		1	12	-	8.5	7.20	7.46	-	7.41	7.36
		1	24	-	8.5	7.21	7.47	-	7.49	7.28
		12	0	-	8.5	7.22	7.40	-	7.42	7.24
		12	6	-	8.5	7.21	7.38	-	7.41	7.21
		12	13	-	8.5	7.19	7.38	-	7.40	7.25
		25	0	-	8.5	7.18	7.39	-	7.38	7.23

Band 66 Full

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132072	132322	132572
						Freq(MHz)		
						1720	1745	1770
20	QPSK	1	0	0	24.0	22.81	22.90	22.97
		1	49	0	24.0	22.77	22.74	22.82
		1	99	0	24.0	22.83	22.88	22.70
		50	0	1	23.0	21.84	21.91	21.90
		50	24	1	23.0	21.93	21.95	21.87
		50	50	1	23.0	21.94	21.96	21.88
		100	0	1	23.0	21.91	21.89	21.87
	16QAM	1	0	1	23.0	22.15	22.14	22.00
		1	49	1	23.0	21.92	22.28	21.88
		1	99	1	23.0	22.04	22.08	22.04
		50	0	2	22.0	20.85	20.92	20.90
		50	24	2	22.0	20.92	20.94	20.89
		50	50	2	22.0	20.92	20.98	20.90
		100	0	2	22.0	20.93	20.91	20.91
	64QAM	1	0	2	22.0	21.00	21.13	21.03
		1	49	2	22.0	21.17	21.06	21.07
		1	99	2	22.0	21.35	21.02	21.04
		50	0	3	21.0	19.85	19.94	19.94
		50	24	3	21.0	19.94	19.96	19.93
		50	50	3	21.0	19.97	19.98	19.93
		100	0	3	21.0	19.93	19.91	19.94
	256QAM	1	0	5	19.0	18.00	18.22	18.07
		1	49	5	19.0	18.10	18.11	17.93
		1	99	5	19.0	17.94	18.09	18.04
		50	0	5	19.0	17.84	17.95	17.88
		50	24	5	19.0	17.93	17.94	17.92
		50	50	5	19.0	17.96	17.97	17.89
		100	0	5	19.0	17.93	17.89	17.88

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132047	132322	132597
						Freq(MHz)		
						1717.5	1745	1772.5
15	QPSK	1	0	0	24.0	22.72	22.90	22.95
		1	37	0	24.0	22.73	22.87	22.80
		1	74	0	24.0	22.75	22.85	22.73
		36	0	1	23.0	21.78	21.92	21.89
		36	19	1	23.0	21.91	21.93	21.94
		36	39	1	23.0	21.90	21.97	21.90
		75	0	1	23.0	21.84	21.89	21.90
	16QAM	1	0	1	23.0	21.99	22.15	22.13
		1	37	1	23.0	21.62	22.22	22.01
		1	74	1	23.0	21.92	22.04	22.09
		36	0	2	22.0	20.79	20.92	20.85
		36	19	2	22.0	20.92	20.91	20.94
		36	39	2	22.0	20.91	20.99	20.89
		75	0	2	22.0	20.91	20.94	20.93
	64QAM	1	0	2	22.0	20.83	20.92	20.67
		1	37	2	22.0	20.84	21.20	20.83
		1	74	2	22.0	21.07	21.13	20.94
		36	0	3	21.0	19.84	19.95	19.92
		36	19	3	21.0	19.92	19.93	19.96
		36	39	3	21.0	19.89	19.98	19.93
		75	0	3	21.0	19.91	19.95	19.97
	256QAM	1	0	5	19.0	17.87	17.96	18.22
		1	37	5	19.0	17.98	18.04	18.33
		1	74	5	19.0	18.05	17.95	17.87
		36	0	5	19.0	17.82	17.92	17.89
		36	19	5	19.0	17.95	17.97	17.99
		36	39	5	19.0	17.93	17.99	17.96
		75	0	5	19.0	17.89	17.93	17.96

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132022	132322	132622
						Freq(MHz)		
						1715	1745	1775
10	QPSK	1	0	0	24.0	22.68	22.79	22.89
		1	24	0	24.0	22.67	22.87	22.80
		1	49	0	24.0	22.85	22.78	22.71
		25	0	1	23.0	21.88	21.93	21.87
		25	12	1	23.0	21.89	21.94	21.86
		25	25	1	23.0	21.87	21.95	21.89
		50	0	1	23.0	21.86	21.92	21.87
	16QAM	1	0	1	23.0	22.07	22.09	22.38
		1	24	1	23.0	21.61	22.12	22.13
		1	49	1	23.0	21.76	22.42	21.96
		25	0	2	22.0	20.84	20.97	20.84
		25	12	2	22.0	20.89	20.91	20.89
		25	25	2	22.0	20.85	20.94	20.89
		50	0	2	22.0	20.86	20.93	20.84
	64QAM	1	0	2	22.0	20.99	21.15	21.10
		1	24	2	22.0	21.24	21.05	21.22
		1	49	2	22.0	20.85	21.34	20.92
		25	0	3	21.0	19.94	19.97	19.95
		25	12	3	21.0	20.01	20.01	19.99
		25	25	3	21.0	19.94	19.99	19.96
		50	0	3	21.0	19.91	19.91	19.86
	256QAM	1	0	5	19.0	18.28	18.10	17.92
		1	24	5	19.0	18.09	18.13	18.00
		1	49	5	19.0	18.12	18.08	18.18
		25	0	5	19.0	17.88	17.91	17.91
		25	12	5	19.0	17.94	17.93	17.85
		25	25	5	19.0	17.88	17.97	17.90
		50	0	5	19.0	17.88	17.93	17.87

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131997	132322	132647
						Freq(MHz)		
						1712.5	1745	1777.5
5	QPSK	1	0	0	24.0	22.80	22.85	22.77
		1	12	0	24.0	22.76	22.88	22.83
		1	24	0	24.0	22.81	22.86	22.72
		12	0	1	23.0	21.89	21.93	21.94
		12	6	1	23.0	21.93	21.96	21.96
		12	13	1	23.0	21.88	21.99	21.87
		25	0	1	23.0	21.89	21.93	21.88
	16QAM	1	0	1	23.0	21.85	21.95	22.10
		1	12	1	23.0	22.15	22.23	21.91
		1	24	1	23.0	22.09	21.85	21.95
		12	0	2	22.0	20.98	20.98	20.99
		12	6	2	22.0	21.02	21.02	21.02
		12	13	2	22.0	20.90	21.00	20.89
		25	0	2	22.0	20.90	21.00	20.86
	64QAM	1	0	2	22.0	20.95	21.03	21.07
		1	12	2	22.0	20.94	20.70	21.07
		1	24	2	22.0	20.86	21.14	21.03
		12	0	3	21.0	19.95	20.04	19.96
		12	6	3	21.0	19.95	20.00	20.06
		12	13	3	21.0	19.90	20.01	19.84
		25	0	3	21.0	19.93	20.02	19.96
	256QAM	1	0	5	19.0	17.79	18.14	17.99
		1	12	5	19.0	18.21	18.39	18.32
		1	24	5	19.0	18.00	18.20	17.97
		12	0	5	19.0	17.98	17.95	17.97
		12	6	5	19.0	17.92	17.97	17.94
		12	13	5	19.0	17.96	18.03	17.91
		25	0	5	19.0	17.95	17.95	17.91

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131987	132322	132657
						Freq(MHz)		
						1711.5	1745	1778.5
3	QPSK	1	0	0	24.0	22.73	22.78	22.76
		1	7	0	24.0	22.75	22.85	22.80
		1	14	0	24.0	22.81	22.84	22.73
		8	0	1	23.0	21.91	21.93	21.91
		8	4	1	23.0	21.92	21.95	21.90
		8	7	1	23.0	21.90	22.00	21.85
		15	0	1	23.0	21.89	21.96	21.88
	16QAM	1	0	1	23.0	22.18	22.25	22.15
		1	7	1	23.0	22.16	22.24	21.76
		1	14	1	23.0	22.17	22.49	22.06
		8	0	2	22.0	20.99	21.00	20.94
		8	4	2	22.0	20.96	20.94	21.03
		8	7	2	22.0	21.00	20.97	20.95
		15	0	2	22.0	20.94	20.95	20.89
	64QAM	1	0	2	22.0	21.20	21.06	20.78
		1	7	2	22.0	20.91	21.13	21.01
		1	14	2	22.0	21.08	21.37	20.90
		8	0	3	21.0	19.96	20.03	20.00
		8	4	3	21.0	19.90	20.06	19.98
		8	7	3	21.0	20.00	20.04	19.95
		15	0	3	21.0	19.91	19.95	19.97
	256QAM	1	0	5	19.0	18.13	18.08	17.91
		1	7	5	19.0	18.06	18.05	17.86
		1	14	5	19.0	18.06	18.11	18.10
		8	0	5	19.0	17.97	18.03	17.89
		8	4	5	19.0	18.04	18.10	17.95
		8	7	5	19.0	18.01	18.00	17.85
		15	0	5	19.0	17.94	17.93	17.87

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131979	132322	132665
						Freq(MHz)		
						1710.7	1745	1779.3
1.4	QPSK	1	0	0	24.0	22.86	22.86	22.85
		1	2	0	24.0	22.51	22.66	22.57
		1	5	0	24.0	22.74	22.90	22.69
		3	0	0	24.0	22.67	22.78	22.69
		3	1	0	24.0	22.76	22.84	22.73
		3	3	0	24.0	22.68	22.75	22.65
		6	0	1	23.0	21.76	21.92	21.73
	16QAM	1	0	1	23.0	21.61	21.80	21.77
		1	2	1	23.0	22.06	22.16	22.00
		1	5	1	23.0	22.05	22.06	22.03
		3	0	1	23.0	21.92	21.89	21.88
		3	1	1	23.0	21.93	22.04	21.95
		3	3	1	23.0	21.88	21.76	21.86
		6	0	2	22.0	20.79	20.96	20.78
	64QAM	1	0	2	22.0	20.78	20.93	21.03
		1	2	2	22.0	21.16	21.09	21.18
		1	5	2	22.0	20.94	20.64	20.85
		3	0	2	22.0	20.95	20.93	20.78
		3	1	2	22.0	20.88	20.99	20.92
		3	3	2	22.0	20.93	20.95	20.93
		6	0	3	21.0	19.92	19.97	19.86
	256QAM	1	0	5	19.0	18.23	18.01	17.98
		1	2	5	19.0	18.09	18.02	18.07
		1	5	5	19.0	17.68	17.85	17.82
		3	0	5	19.0	17.91	18.05	17.87
		3	1	5	19.0	18.00	17.96	17.94
		3	3	5	19.0	18.05	18.19	17.88
		6	0	5	19.0	17.87	17.91	17.75

Band 66 Red

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132072	132322	132572
						Freq(MHz)		
						1720	1745	1770
20	QPSK	1	0	-	18.0	16.66	16.79	16.98
		1	49	-	18.0	16.51	16.82	16.87
		1	99	-	18.0	16.65	16.89	16.76
		50	0	-	18.0	16.68	16.96	16.93
		50	24	-	18.0	16.81	17.01	16.91
		50	50	-	18.0	16.79	17.06	16.82
		100	0	-	18.0	16.63	16.88	16.84
	16QAM	1	0	-	18.0	17.07	17.15	17.16
		1	49	-	18.0	17.01	17.24	16.95
		1	99	-	18.0	17.05	17.28	16.94
		50	0	-	18.0	16.72	16.98	16.95
		50	24	-	18.0	16.88	17.04	16.90
		50	50	-	18.0	16.86	17.04	16.85
		100	0	-	18.0	16.81	16.99	16.92
	64QAM	1	0	-	18.0	16.86	17.19	17.15
		1	49	-	18.0	16.77	17.22	17.14
		1	99	-	18.0	16.95	17.11	16.95
		50	0	-	18.0	16.72	16.99	17.01
		50	24	-	18.0	16.82	17.06	16.95
		50	50	-	18.0	16.78	17.09	16.86
		100	0	-	18.0	16.81	16.97	16.92
	256QAM	1	0	-	18.0	16.96	17.10	17.26
		1	49	-	18.0	16.77	17.22	16.88
		1	99	-	18.0	16.84	17.00	16.84
		50	0	-	18.0	16.67	16.97	16.94
		50	24	-	18.0	16.79	16.96	16.94
		50	50	-	18.0	16.80	17.03	16.82
		100	0	-	18.0	16.77	16.99	16.94

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132047	132322	132597
						Freq(MHz)		
						1717.5	1745	1772.5
15	QPSK	1	0	-	18.0	16.69	16.82	16.83
		1	37	-	18.0	16.54	16.91	16.68
		1	74	-	18.0	16.72	16.92	16.59
		36	0	-	18.0	16.71	17.00	16.89
		36	19	-	18.0	16.79	17.03	16.84
		36	39	-	18.0	16.78	17.05	16.77
		75	0	-	18.0	16.71	16.75	16.82
	16QAM	1	0	-	18.0	17.03	17.25	17.20
		1	37	-	18.0	16.98	17.36	17.10
		1	74	-	18.0	17.16	17.24	16.93
		36	0	-	18.0	16.78	17.03	16.91
		36	19	-	18.0	16.81	17.01	16.86
		36	39	-	18.0	16.85	17.12	16.80
		75	0	-	18.0	16.82	17.00	16.82
	64QAM	1	0	-	18.0	16.99	16.85	17.27
		1	37	-	18.0	16.93	17.13	17.00
		1	74	-	18.0	17.09	17.13	16.81
		36	0	-	18.0	16.77	17.05	16.95
		36	19	-	18.0	16.83	17.10	16.89
		36	39	-	18.0	16.86	17.06	16.76
		75	0	-	18.0	16.81	17.01	16.86
	256QAM	1	0	-	18.0	16.69	16.98	17.07
		1	37	-	18.0	16.91	17.35	16.90
		1	74	-	18.0	16.93	17.07	16.99
		36	0	-	18.0	16.68	17.05	16.91
		36	19	-	18.0	16.79	17.03	16.90
		36	39	-	18.0	16.77	17.06	16.80
		75	0	-	18.0	16.79	16.99	16.85

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132022	132322	132622
						Freq(MHz)		
						1715	1745	1775
10	QPSK	1	0	-	18.0	16.57	16.95	16.75
		1	24	-	18.0	16.52	16.90	16.64
		1	49	-	18.0	16.65	16.89	16.61
		25	0	-	18.0	16.66	16.98	16.77
		25	12	-	18.0	16.71	17.01	16.75
		25	25	-	18.0	16.70	17.02	16.78
		50	0	-	18.0	16.60	16.95	16.74
	16QAM	1	0	-	18.0	16.93	17.42	16.90
		1	24	-	18.0	16.96	17.26	17.02
		1	49	-	18.0	17.11	17.27	16.90
		25	0	-	18.0	16.73	17.00	16.72
		25	12	-	18.0	16.73	16.96	16.84
		25	25	-	18.0	16.69	17.02	16.73
		50	0	-	18.0	16.70	16.98	16.80
	64QAM	1	0	-	18.0	16.78	16.90	17.15
		1	24	-	18.0	16.80	17.32	16.81
		1	49	-	18.0	16.55	17.23	16.84
		25	0	-	18.0	16.72	17.05	16.75
		25	12	-	18.0	16.75	17.02	16.81
		25	25	-	18.0	16.72	16.99	16.71
		50	0	-	18.0	16.76	16.92	16.81
	256QAM	1	0	-	18.0	16.97	17.09	17.18
		1	24	-	18.0	16.89	17.31	16.82
		1	49	-	18.0	16.95	16.88	16.81
		25	0	-	18.0	16.75	16.96	16.85
		25	12	-	18.0	16.75	17.01	16.77
		25	25	-	18.0	16.74	17.02	16.78
		50	0	-	18.0	16.73	16.97	16.76

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131997	132322	132647
						Freq(MHz)		
						1712.5	1745	1777.5
5	QPSK	1	0	-	18.0	16.60	16.85	16.59
		1	12	-	18.0	16.51	16.97	16.63
		1	24	-	18.0	16.54	16.91	16.62
		12	0	-	18.0	16.68	17.05	16.78
		12	6	-	18.0	16.70	17.02	16.81
		12	13	-	18.0	16.66	17.04	16.75
		25	0	-	18.0	16.59	16.97	16.62
	16QAM	1	0	-	18.0	16.99	17.17	16.92
		1	12	-	18.0	16.97	17.25	17.12
		1	24	-	18.0	16.74	17.20	16.91
		12	0	-	18.0	16.77	17.10	16.84
		12	6	-	18.0	16.70	17.13	16.82
		12	13	-	18.0	16.72	17.14	16.79
		25	0	-	18.0	16.62	17.00	16.69
	64QAM	1	0	-	18.0	16.64	17.17	17.03
		1	12	-	18.0	16.66	17.46	16.72
		1	24	-	18.0	16.65	17.36	17.06
		12	0	-	18.0	16.78	17.09	16.79
		12	6	-	18.0	16.72	17.07	16.81
		12	13	-	18.0	16.70	17.10	16.76
		25	0	-	18.0	16.62	16.98	16.73
	256QAM	1	0	-	18.0	16.71	17.03	16.65
		1	12	-	18.0	17.01	17.14	16.77
		1	24	-	18.0	16.63	17.14	16.81
		12	0	-	18.0	16.70	17.03	16.68
		12	6	-	18.0	16.70	17.04	16.74
		12	13	-	18.0	16.67	17.09	16.68
		25	0	-	18.0	16.63	16.95	16.75

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131987	132322	132657
						Freq(MHz)		
						1711.5	1745	1778.5
3	QPSK	1	0	-	18.0	16.31	16.84	16.56
		1	7	-	18.0	16.44	16.94	16.67
		1	14	-	18.0	16.46	16.91	16.63
		8	0	-	18.0	16.39	17.04	16.77
		8	4	-	18.0	16.38	17.03	16.78
		8	7	-	18.0	16.49	17.13	16.74
		15	0	-	18.0	16.36	16.77	16.66
	16QAM	1	0	-	18.0	16.80	17.16	17.04
		1	7	-	18.0	16.46	17.40	17.13
		1	14	-	18.0	16.71	17.40	17.02
		8	0	-	18.0	16.76	17.14	16.87
		8	4	-	18.0	16.68	17.19	16.87
		8	7	-	18.0	16.64	17.11	16.86
		15	0	-	18.0	16.57	17.02	16.81
	64QAM	1	0	-	18.0	16.31	17.16	17.00
		1	7	-	18.0	16.90	17.33	17.04
		1	14	-	18.0	16.75	17.26	17.07
		8	0	-	18.0	16.77	17.04	16.76
		8	4	-	18.0	16.65	17.13	16.78
		8	7	-	18.0	16.49	17.08	16.74
		15	0	-	18.0	16.35	17.04	16.73
	256QAM	1	0	-	18.0	16.26	17.03	16.83
		1	7	-	18.0	16.82	17.08	16.90
		1	14	-	18.0	16.54	17.12	16.95
		8	0	-	18.0	16.47	17.11	16.83
		8	4	-	18.0	16.44	17.10	16.82
		8	7	-	18.0	16.42	17.10	16.73
		15	0	-	18.0	16.53	17.04	16.68

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modu- lation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131979	132322	132665
						Freq(MHz)		
						1710.7	1745	1779.3
1.4	QPSK	1	0	-	18.0	16.47	16.89	16.73
		1	2	-	18.0	16.43	16.84	16.64
		1	5	-	18.0	16.20	16.92	16.59
		3	0	-	18.0	16.55	16.86	16.60
		3	1	-	18.0	16.29	17.00	16.65
		3	3	-	18.0	16.54	16.91	16.57
		6	0	-	18.0	16.25	16.91	16.61
	16QAM	1	0	-	18.0	16.13	17.10	16.86
		1	2	-	18.0	16.64	16.99	16.93
		1	5	-	18.0	16.65	17.22	16.95
		3	0	-	18.0	16.21	17.08	16.85
		3	1	-	18.0	16.60	17.30	16.80
		3	3	-	18.0	16.39	17.03	16.82
		6	0	-	18.0	16.10	16.94	16.64
	64QAM	1	0	-	18.0	16.81	17.36	16.86
		1	2	-	18.0	16.12	17.24	16.92
		1	5	-	18.0	16.32	17.11	16.92
		3	0	-	18.0	16.44	17.03	16.79
		3	1	-	18.0	16.36	17.10	16.86
		3	3	-	18.0	16.65	17.00	16.76
		6	0	-	18.0	16.63	16.90	16.75
	256QAM	1	0	-	18.0	16.85	17.33	16.88
		1	2	-	18.0	16.89	17.27	16.82
		1	5	-	18.0	16.53	17.08	16.72
		3	0	-	18.0	16.65	17.11	16.79
		3	1	-	18.0	16.58	17.07	16.79
		3	3	-	18.0	16.65	17.15	16.74
		6	0	-	18.0	16.57	16.84	16.76

SAR test exclusion for DLCA

The configurations that require power measurements as described in Section 15.5.1 "LTE DLCA Test Reduction Methodology" are highlighted in yellow in the table below. Only yellow highlighted cells need power measurement.

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#1	CA_2C		3CC#12, 3CC#13, 3CC#14, 3CC#15, 4CC#7, 4CC#70
2CC#2	CA_5B		3CC#5, 3CC#16, 3CC#27, 3CC#28, 4CC#71, 4CC#86, 4CC#7, 4CC#13, 4CC#14, 4CC#15, 4CC#38, 4CC#43, 4CC#52, 5CC#6, 5CC#22, 5CC#23, 5CC#39, 5CC#40, 5CC#58, 5CC#65, 6CC#1
2CC#3	CA_7B		No
2CC#4	CA_7C		3CC#6, 3CC#17, 3CC#21, 3CC#31, 3CC#32, 3CC#33, 3CC#34, 4CC#17, 4CC#44, 4CC#46, 4CC#55, 4CC#56, 4CC#57, 4CC#80, 4CC#89, 4CC#90, 5CC#8, 5CC#68, 5CC#69, 5CC#80, 6CC#2
2CC#5	CA_12B		3CC#7, 3CC#18, 3CC#22, 3CC#29, 3CC#37, 4CC#39, 4CC#45, 4CC#47, 4CC#53, 4CC#59, 4CC#72, 4CC#73, 4CC#88, 4CC#91, 5CC#59, 5CC#67, 5CC#70
2CC#6	CA_38C		No
2CC#7	CA_41C		3CC#42, 3CC#44, 3CC#45, 3CC#48, 4CC#27, 4CC#28, 4CC#100, 4CC#101, 4CC#102, 4CC#104, 5CC#14, 5CC#49, 6CC#12
2CC#10	CA_66B		3CC#10, 3CC#25, 3CC#40, 3CC#53, 3CC#56, 4CC#14, 4CC#35, 4CC#41, 4CC#50, 4CC#62, 4CC#68, 4CC#77, 4CC#84, 4CC#95, 4CC#98, 4CC#107, 5CC#22, 5CC#39, 5CC#52, 5CC#56, 5CC#60, 5CC#61, 5CC#75
2CC#11	CA_66C		3CC#11, 3CC#26, 3CC#36, 3CC#41, 3CC#50, 3CC#54, 3CC#57, 4CC#15, 4CC#36, 4CC#42, 4CC#51, 4CC#58, 4CC#63, 4CC#69, 4CC#78, 4CC#85, 4CC#96, 4CC#99, 4CC#108, 5CC#23, 5CC#40, 5CC#53, 5CC#57, 5CC#62, 5CC#76
2CC#12	CA_2A-2A		3CC#58, 3CC#59, 3CC#60, 3CC#61, 3CC#62, 3CC#63, 3CC#64, 3CC#65, 3CC#66, 4CC#38, 4CC#39, 4CC#40, 4CC#41, 4CC#42, 4CC#111, 4CC#112, 4CC#113, 4CC#114, 4CC#115, 4CC#116, 4CC#117, 4CC#118, 4CC#119, 4CC#120, 4CC#121, 4CC#122, 4CC#123, 5CC#19, 5CC#56, 5CC#57, 5CC#58, 5CC#59, 5CC#60, 5CC#61, 5CC#62, 5CC#84, 5CC#85, 5CC#86, 5CC#87, 5CC#88, 5CC#89
2CC#13	CA_2A-4A		3CC#58, 3CC#67, 3CC#68, 3CC#69, 3CC#70, 3CC#71, 3CC#72, 4CC#43, 4CC#44, 4CC#45, 4CC#111, 4CC#112, 4CC#113, 4CC#114, 4CC#124, 4CC#125, 4CC#126, 4CC#127, 4CC#128, 4CC#129
2CC#14	CA_2A-5A		3CC#59, 3CC#73, 3CC#74, 3CC#75, 3CC#76, 3CC#77, 4CC#46, 4CC#47, 4CC#48, 4CC#49, 4CC#50, 4CC#51, 4CC#115, 4CC#116, 4CC#130, 4CC#131, 4CC#132, 4CC#133, 4CC#134, 4CC#135, 5CC#20, 5CC#21, 5CC#56, 5CC#57, 5CC#63, 5CC#64, 5CC#84, 5CC#85, 5CC#90, 6CC#3, 6CC#14, 6CC#21, 7CC#1, 7CC#5
2CC#15	CA_2A-7A		3CC#60, 3CC#78, 3CC#79, 3CC#80, 3CC#81, 3CC#82, 3CC#83, 4CC#53, 4CC#54, 4CC#117, 4CC#118, 4CC#136, 4CC#137, 4CC#138, 4CC#139, 4CC#140, 4CC#141, 4CC#142, 4CC#143, 5CC#24, 5CC#66, 5CC#67, 5CC#86, 5CC#91, 5CC#92, 6CC#4,
2CC#16	CA_2A-12A		3CC#61, 3CC#84, 3CC#85, 4CC#58, 4CC#119, 4CC#120, 4CC#144, 5CC#87
2CC#17	CA_2A-13A		3CC#86, 3CC#87, 3CC#88, 4CC#60, 4CC#61, 4CC#62, 4CC#63, 4CC#121, 4CC#145, 4CC#146, 4CC#147, 4CC#148, 4CC#149, 5CC#25, 5CC#26, 5CC#27, 5CC#60, 5CC#71, 5CC#72, 5CC#73, 5CC#74, 5CC#75, 5CC#76, 5CC#88, 5CC#93, 5CC#94, 6CC#5, 6CC#16, 6CC#17, 6CC#22, 7CC#6
2CC#18	CA_2A-14A		3CC#63, 3CC#89, 4CC#122, 4CC#150, 5CC#89, 5CC#95
2CC#19	CA_2A-17A		No
2CC#20	CA_2A-29A	B29 SCC only	3CC#64, 3CC#90
2CC#21	CA_2A-46A	B46 SCC only	3CC#65, 3CC#91, 3CC#92, 4CC#64, 4CC#151, 4CC#152, 5CC#28, 5CC#77
2CC#22	CA_2A-48A		3CC#93, 3CC#94, 4CC#66, 4CC#153, 4CC#154, 5CC#79
2CC#23	CA_2A-66A		3CC#66, 3CC#95, 4CC#68, 4CC#69, 4CC#155, 5CC#61
2CC#24	CA_4A-4A		3CC#67, 3CC#96, 3CC#97, 3CC#98, 3CC#99, 3CC#100, 4CC#71, 4CC#72, 4CC#111, 4CC#124, 4CC#125, 4CC#156, 4CC#157

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#25	CA_4A-5A		3CC#68, 3CC#96, 3CC#101, 4CC#73, 4CC#112, 4CC#124, 4CC#126, 4CC#156
2CC#26	CA_4A-7A		3CC#69, 3CC#97, 3CC#102, 3CC#103, 4CC#127, 4CC#128
2CC#27	CA_4A-12A		3CC#70, 3CC#98, 3CC#104, 4CC#113, 4CC#125, 4CC#129, 4CC#160
2CC#28	CA_4A-13A		3CC#71, 3CC#99, 3CC#105, 4CC#74, 4CC#114
2CC#29	CA_4A-17A		No
2CC#30	CA_4A-29A	B29 SCC only	3CC#72, 3CC#100
2CC#31	CA_4A-46A	B46 SCC only	3CC#106, 4CC#75, 5CC#33
2CC#32	CA_4A-48A		3CC#107, 4CC#76
2CC#33	CA_5A-5A		3CC#108, 4CC#77, 4CC#78, 4CC#158
2CC#34	CA_5A-7A		3CC#73, 3CC#109, 3CC#110, 3CC#111, 4CC#79, 4CC#130, 4CC#159, 5CC#35
2CC#35	CA_5A-12A		3CC#74, 3CC#101, 3CC#112, 4CC#115, 4CC#126, 4CC#131, 4CC#156, 5CC#84
2CC#36	CA_5A-25A		No
2CC#37	CA_5A-38A		No
2CC#38	CA_5A-41A		No
2CC#39	CA_5A-46A	B46 SCC only	3CC#75, 3CC#110, 3CC#113, 4CC#132, 4CC#160, 5CC#90
2CC#40	CA_5A-48A		3CC#76, 3CC#114, 3CC#115, 4CC#82, 4CC#133, 4CC#134, 4CC#161, 5CC#37
2CC#41	CA_5A-66A		3CC#77, 3CC#108, 3CC#116, 4CC#84, 4CC#85, 4CC#116, 4CC#135, 4CC#158, 5CC#85
2CC#42	CA_7A-7A		3CC#78, 3CC#102, 3CC#109, 3CC#117, 3CC#118, 3CC#119, 3CC#120, 3CC#121, 4CC#87, 4CC#127, 4CC#130, 4CC#136, 4CC#137, 4CC#138, 4CC#139, 4CC#162, 4CC#163, 5CC#41, 5CC#66, 5CC#91, 5CC#92, 6CC#9, 6CC#15, 7CC#2
2CC#43	CA_7A-12A		3CC#79, 3CC#103, 3CC#122, 4CC#117, 4CC#128, 4CC#140, 5CC#86
2CC#44	CA_7A-13A		3CC#80, 3CC#117, 4CC#136
2CC#45	CA_7A-26A		3CC#118,
2CC#46	CA_7A-29A	B29 SCC only	3CC#81, 3CC#119, 3CC#123, 4CC#137, 4CC#141, 4CC#162, 5CC#91
2CC#48	CA_7A-46A	B46 SCC only	3CC#82, 3CC#110, 3CC#120, 3CC#124, 4CC#138, 4CC#142
2CC#49	CA_7A-66A		3CC#83, 3CC#111, 3CC#121, 3CC#125, 4CC#118, 4CC#139, 4CC#143, 4CC#159, 4CC#163, 5CC#92
2CC#50	CA_12A-12A		3CC#84, 3CC#104, 4CC#119, 4CC#129, 4CC#157
2CC#51	CA_12A-25A		No
2CC#52	CA_12A-46A	B46 SCC only	No
2CC#53	CA_12A-66A		3CC#85, 3CC#112, 3CC#122, 3CC#126, 4CC#120, 4CC#131, 4CC#140, 4CC#144, 5CC#84, 5CC#86, 5CC#87
2CC#54	CA_13A-46A	B46 SCC only	3CC#86, 3CC#127, 3CC#128, 4CC#92, 4CC#145, 4CC#146, 4CC#164, 5CC#42, 5CC#71, 5CC#93, 6CC#16
2CC#55	CA_13A-48A		3CC#87, 3CC#105, 3CC#129, 3CC#130, 4CC#94, 4CC#95, 4CC#96, 4CC#147, 4CC#148, 4CC#165, 5CC#44, 5CC#73, 5CC#83, 5CC#94
2CC#56	CA_13A-66A		3CC#88, 3CC#131, 4CC#98, 4CC#99, 4CC#121, 4CC#149, 4CC#166, 5CC#75, 5CC#76, 5CC#88, 5CC#93
2CC#57	CA_14A-66A		3CC#89, 3CC#132, 4CC#122, 4CC#150, 4CC#167, 5CC#89, 5CC#95
2CC#58	CA_25A-25A		3CC#133, 3CC#134, 3CC#135, 4CC#100, 5CC#47
2CC#59	CA_25A-26A		3CC#134, 3CC#136, 4CC#101
2CC#60	CA_25A-41A		3CC#135

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#61	CA_25A-46A	B46 SCC only	No
2CC#62	CA_26A-41A		3CC#136
2CC#63	CA_26A-46A	B46 SCC only	No
2CC#64	CA_29A-66A	B29 SCC only	3CC#90, 3CC#123, 3CC#137, 4CC#89, 4CC#141, 4CC#162, 5CC#68, 5CC#91
2CC#65	CA_41A-41A		3CC#138, 4CC#102
2CC#67	CA_41A-46A	B46 SCC only	No
2CC#68	CA_41A-48A		No
2CC#70	CA_46A-66A	B46 SCC only	3CC#92, 3CC#113, 3CC#124, 3CC#128, 3CC#140, 3CC#141, 4CC#132, 4CC#142, 4CC#146, 4CC#151, 4CC#152, 4CC#160, 4CC#164, 4CC#168, 5CC#90, 5CC#93
2CC#71	CA_48A-48A		3CC#93, 3CC#107, 3CC#114, 3CC#129, 3CC#142, 4CC#107, 4CC#108, 4CC#133, 4CC#147, 4CC#153, 4CC#161, 4CC#165, 4CC#169, 5CC#94
2CC#72	CA_48A-66A		3CC#94, 3CC#115, 3CC#130, 3CC#142, 3CC#143, 4CC#134, 4CC#148, 4CC#153, 4CC#154, 4CC#161, 4CC#165, 4CC#169, 4CC#170, 5CC#94
2CC#73	CA_66A-66A		3CC#95, 3CC#116, 3CC#125, 3CC#126, 3CC#131, 3CC#132, 3CC#137, 3CC#141, 3CC#143, 3CC#144, 4CC#70, 4CC#86, 4CC#90, 4CC#91, 4CC#106, 4CC#110, 4CC#123, 4CC#135, 4CC#143, 4CC#144, 4CC#149, 4CC#150, 4CC#152, 4CC#154, 4CC#155, 4CC#158, 4CC#159, 4CC#160, 4CC#163, 4CC#164, 4CC#166, 4CC#167, 4CC#168, 4CC#169, 4CC#170, 5CC#51, 5CC#65, 5CC#69, 5CC#70, 5CC#78, 5CC#80, 5CC#81, 5CC#82, 5CC#85, 5CC#87, 5CC#88, 5CC#89, 5CC#90, 5CC#92, 5CC#93, 5CC#95, 6CC#13, 6CC#18, 6CC#19, 6CC#20, 6CC#21, 6CC#22, 7CC#3, 7CC#4, 7CC#5, 7CC#6

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	CA_41D		4CC#22, 4CC#24, 4CC#29, 5CC#14, 5CC#15, 5CC#47
3CC#3	CA_48D		4CC#5, 4CC#9, 4CC#11, 4CC#20, 4CC#33, 4CC#37, 5CC#17, 5CC#21, 5CC#26, 5CC#30, 5CC#32, 5CC#37, 5CC#38, 5CC#44, 5CC#46, 5CC#54
3CC#4	CA_66D		4CC#6, 4CC#12, 4CC#21, 5CC#27
3CC#5	CA_2A-5B		4CC#38, 4CC#52, 5CC#22, 5CC#23, 5CC#58, 5CC#65
3CC#6	CA_2A-7C		4CC#55, 4CC#56, 4CC#57, 5CC#68, 5CC#69
3CC#7	CA_2A-12B		4CC#39, 4CC#62, 5CC#59, 5CC#70
3CC#8	CA_2A-46C	B46 SCC only	4CC#40, 4CC#65, 5CC#7
3CC#9	CA_2A-48C		4CC#67, 5CC#31
3CC#10	CA_2A-66B		4CC#41
3CC#11	CA_2A-66C		4CC#42
3CC#12	CA_2C-5A		No
3CC#13	CA_2C-12A		No
3CC#14	CA_2C-29A	B29 SCC only	No
3CC#15	CA_2C-66A		4CC#70
3CC#16	CA_4A-5B		4CC#43, 4CC#71
3CC#17	CA_4A-7C		4CC#44
3CC#18	CA_4A-12B		4CC#45, 4CC#72
3CC#19	CA_4A-46C	B46 SCC only	5CC#34
3CC#20	CA_4A-48C		4CC#74, 4CC#76
3CC#21	CA_5A-7C		4CC#46, 4CC#80, 5CC#80
3CC#22	CA_5A-12B		4CC#47, 4CC#73
3CC#23	CA_5A-46C	B46 SCC only	4CC#48, 4CC#81, 5CC#63, 5CC#81, 6CC#21
3CC#24	CA_5A-48C		4CC#49, 4CC#83, 5CC#64
3CC#25	CA_5A-66B		4CC#50, 4CC#77, 4CC#84, 5CC#56
3CC#26	CA_5A-66C		4CC#51, 4CC#78, 4CC#85, 5CC#57
3CC#27	CA_5B-46A	B46 SCC only	No
3CC#28	CA_5B-66A		4CC#52, 4CC#86, 5CC#39, 5CC#40, 5CC#58, 5CC#65
3CC#29	CA_7A-12B		4CC#53, 4CC#88, 5CC#67
3CC#30	CA_7A-46C	B46 SCC only	4CC#54, 4CC#79, 4CC#87, 5CC#66
3CC#31	CA_7C-13A		4CC#55
3CC#32	CA_7C-29A	B29 SCC only	4CC#56, 4CC#89, 5CC#68
3CC#33	CA_7C-46A	B46 SCC only	No
3CC#34	CA_7C-66A		4CC#57, 4CC#80, 4CC#89, 4CC#90, 5CC#68, 5CC#69, 5CC#80
3CC#35	CA_12A-46C	B46 SCC only	No
3CC#36	CA_12A-66C		4CC#58
3CC#37	CA_12B-66A		4CC#59, 4CC#88, 4CC#91, 5CC#59, 5CC#67, 5CC#70
3CC#38	CA_13A-46C	B46 SCC only	4CC#92, 5CC#72, 5CC#82, 6CC#22
3CC#39	CA_13A-48C		4CC#61, 4CC#74, 4CC#94, 4CC#97, 5CC#48, 5CC#73, 5CC#74, 5CC#8
3CC#40	CA_13A-66B		4CC#62, 4CC#95, 4CC#98, 5CC#60, 5CC#75
3CC#41	CA_13A-66C		4CC#63, 4CC#96, 4CC#99, 5CC#76
3CC#42	CA_25A-41C		4CC#100, 4CC#101
3CC#43	CA_25A-46C	B46 SCC only	No
3CC#44	CA_26A-41C		4CC#101
3CC#45	CA_41A-41C		4CC#102
3CC#47	CA_41A-46C	B46 SCC only	No
3CC#50	CA_46A-66C	B46 SCC only	No

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#51	CA_46C-66A	B46 SCC only	4CC#65, 4CC#81, 4CC#93, 4CC#105, 4CC#106, 5CC#63, 5CC#72, 5CC#77, 5CC#78, 5CC#81, 5CC#82, 6CC#21, 6CC#22
3CC#52	CA_48A-48C		4CC#66, 4CC#76, 4CC#82, 4CC#94, 4CC#109, 5CC#52, 5CC#53, 5CC#73, 5CC#79, 5CC#83
3CC#53	CA_48A-66B		4CC#95, 4CC#107, 5CC#52
3CC#54	CA_48A-66C		4CC#96, 4CC#108, 5CC#53
3CC#55	CA_48C-66A		4CC#67, 4CC#83, 4CC#97, 4CC#109, 4CC#110, 5CC#55, 5CC#67, 5CC#77, 5CC#82, 5CC#86
3CC#56	CA_66A-66B		4CC#68, 4CC#84, 4CC#98, 5CC#39, 5CC#61, 5CC#75
3CC#57	CA_66A-66C		4CC#69, 4CC#85, 4CC#102, 5CC#40, 5CC#62, 5CC#76
3CC#58	CA_2A-2A-4A		4CC#111, 4CC#112, 4CC#113, 4CC#114
3CC#59	CA_2A-2A-5A		4CC#115, 4CC#116, 5CC#56, 5CC#57, 5CC#84, 5CC#85
3CC#60	CA_2A-2A-7A		4CC#117, 4CC#118, 5CC#86
3CC#61	CA_2A-2A-12A		4CC#119, 4CC#120, 5CC#87
3CC#62	CA_2A-2A-13A		4CC#114, 4CC#124, 5CC#60, 5CC#88
3CC#63	CA_2A-2A-14A		4CC#122, 5CC#89
3CC#64	CA_2A-2A-29A	B29 SCC only	No
3CC#65	CA_2A-2A-46A	B46 SCC only	No
3CC#66	CA_2A-2A-66A		4CC#116, 4CC#118, 4CC#120, 4CC#121, 4CC#122, 4CC#123, 5CC#58, 5CC#59, 5CC#61, 5CC#62, 5CC#84, 5CC#85, 5CC#86, 5CC#87, 5CC#88, 5CC#89
3CC#67	CA_2A-4A-4A		4CC#111, 4CC#124, 4CC#125
3CC#68	CA_2A-4A-5A		4CC#112, 4CC#124, 4CC#126
3CC#69	CA_2A-4A-7A		4CC#127, 4CC#128
3CC#70	CA_2A-4A-12A		4CC#113, 4CC#125, 4CC#126, 4CC#131, 4CC#132
3CC#71	CA_2A-4A-13A		4CC#114
3CC#72	CA_2A-4A-29A	B29 SCC only	No
3CC#73	CA_2A-5A-7A		4CC#130
3CC#74	CA_2A-5A-12A		4CC#115, 4CC#131, 5CC#84
3CC#75	CA_2A-5A-46A	B46 SCC only	4CC#132, 5CC#90
3CC#76	CA_2A-5A-48A		4CC#133, 4CC#134
3CC#77	CA_2A-5A-66A		4CC#116, 4CC#135, 5CC#85
3CC#78	CA_2A-7A-7A		4CC#136, 4CC#137, 4CC#138, 4CC#139, 5CC#66, 5CC#91, 5CC#92, 6CC#15, 7CC#2
3CC#79	CA_2A-7A-12A		4CC#117, 4CC#128, 4CC#140, 5CC#86
3CC#80	CA_2A-7A-13A		4CC#136
3CC#81	CA_2A-7A-29A	B29 SCC only	4CC#137, 4CC#141, 5CC#91
3CC#82	CA_2A-7A-46A	B46 SCC only	4CC#138, 4CC#142
3CC#83	CA_2A-7A-66A		4CC#118, 4CC#143
3CC#84	CA_2A-12A-12A		4CC#119
3CC#85	CA_2A-12A-66A		4CC#120, 4CC#144, 5CC#87
3CC#86	CA_2A-13A-46A	B46 SCC only	4CC#145, 4CC#146, 5CC#71, 5CC#93, 6CC#16
3CC#87	CA_2A-13A-48A		4CC#147, 4CC#148, 5CC#73, 5CC#94
3CC#88	CA_2A-13A-66A		4CC#121, 4CC#149, 5CC#75, 5CC#76, 5CC#88
3CC#89	CA_2A-14A-66A		4CC#122, 4CC#150, 5CC#89, 5CC#95
3CC#90	CA_2A-29A-66A	B29 SCC only	4CC#141, 5CC#68, 5CC#91
3CC#91	CA_2A-46A-46A	B46 SCC only	4CC#145, 4CC#151
3CC#92	CA_2A-46A-66A	B46 SCC only	4CC#152
3CC#93	CA_2A-48A-48A		4CC#153
3CC#94	CA_2A-48A-66A		4CC#154
3CC#95	CA_2A-66A-66A		4CC#123, 4CC#155
3CC#96	CA_4A-4A-5A		4CC#124, 4CC#156
3CC#97	CA_4A-4A-7A		No
3CC#98	CA_4A-4A-12A		4CC#125, 4CC#157
3CC#99	CA_4A-4A-13A		No
3CC#100	CA_4A-4A-29A	B29 SCC only	No

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#101	CA_4A-5A-12A		4CC#126, 4CC#156
3CC#102	CA_4A-7A-7A		4CC#127
3CC#103	CA_4A-7A-12A		4CC#128
3CC#104	CA_4A-12A-12A		4CC#129, 4CC#157
3CC#105	CA_4A-13A-48A		No
3CC#106	CA_4A-46A-46A	B46 SCC only	No
3CC#107	CA_4A-48A-48A		No
3CC#108	CA_5A-5A-66A		4CC#158
3CC#109	CA_5A-7A-7A		4CC#130
3CC#110	CA_5A-7A-46A		No
3CC#111	CA_5A-7A-66A		4CC#159
3CC#112	CA_5A-12A-66A		4CC#131, 5CC#84
3CC#113	CA_5A-46A-66A	B46 SCC only	4CC#132, 4CC#163, 5CC#90
3CC#114	CA_5A-48A-48A		4CC#133, 4CC#161
3CC#115	CA_5A-48A-66A		4CC#134, 4CC#161
3CC#116	CA_5A-66A-66A		4CC#135, 4CC#158, 5CC#85, 5CC#90, 6CC#19, 6CC#21, 7CC#4, 7CC#5
3CC#117	CA_7A-7A-13A		4CC#136
3CC#118	CA_7A-7A-26A		No
3CC#119	CA_7A-7A-29A	B29 SCC only	4CC#137, 4CC#162
3CC#120	CA_7A-7A-46A	B46 SCC only	4CC#138
3CC#121	CA_7A-7A-66A		4CC#139, 4CC#163, 5CC#92
3CC#122	CA_7A-12A-66A		4CC#140, 5CC#86
3CC#123	CA_7A-29A-66A	B29 SCC only	4CC#141, 4CC#162, 5CC#91
3CC#124	CA_7A-46A-66A	B46 SCC only	4CC#142
3CC#125	CA_7A-66A-66A		4CC#143, 4CC#159, 4CC#163, 5CC#92
3CC#126	CA_12A-66A-66A		4CC#144, 5CC#87
3CC#127	CA_13A-46A-46A	B46 SCC only	4CC#145
3CC#128	CA_13A-46A-66A	B46 SCC only	4CC#146, 4CC#164, 5CC#93
3CC#129	CA_13A-48A-48A		4CC#147, 4CC#165, 5CC#94
3CC#130	CA_13A-48A-66A		4CC#148, 4CC#165, 5CC#83, 5CC#94
3CC#131	CA_13A-66A-66A		4CC#149, 4CC#164, 4CC#166, 5CC#82, 5CC#88, 5CC#93
3CC#132	CA_14A-66A-66A		4CC#150, 4CC#167, 5CC#89, 5CC#95
3CC#133	CA_25A-25A-25A		No
3CC#134	CA_25A-25A-26A	B46 SCC only	No
3CC#135	CA_25A-25A-41A		No
3CC#136	CA_25A-26A-41A		No
3CC#137	CA_29A-66A-66A	B29 SCC only	No
3CC#138	CA_41A-41A-41A		No
3CC#140	CA_46A-46A-66A	B46 SCC only	4CC#151
3CC#141	CA_46A-66A-66A	B46 SCC only	4CC#152, 4CC#160, 4CC#164, 4CC#168, 5CC#90, 5CC#93
3CC#142	CA_48A-48A-66A		4CC#153, 4CC#161, 4CC#165, 4CC#169, 5CC#94
3CC#143	CA_48A-66A-66A		4CC#154, 4CC#169, 4CC#170
3CC#144	CA_66A-66A-66A		4CC#155, 4CC#166, 4CC#167, 4CC#168, 4CC#170, 5CC#95

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#1	CA_41E		5CC#12
4CC#3	CA_48E		5CC#3, 5CC#4, 5CC#11, 5CC#18
4CC#4	CA_2A-46D	B46 SCC only	5CC#19, 5CC#20, 5CC#24, 5CC#25, 5CC#28, 5CC#29, 6CC#14, 6CC#15, 6CC#16, 6CC#17, 6CC#18, 7CC#5, 7CC#6
4CC#5	CA_2A-48D		5CC#21, 5CC#26, 5CC#30, 5CC#32
4CC#6	CA_2A-66D		5CC#27
4CC#7	CA_2C-5B		No
4CC#8	CA_4A-46D	B46 SCC only	5CC#33
4CC#9	CA_4A-48D		No
4CC#10	CA_5A-46D	B46 SCC only	5CC#20, 5CC#35, 5CC#36, 6CC#14, 6CC#19, 7CC#5
4CC#11	CA_5A-48D		5CC#21, 5CC#37, 5CC#38
4CC#12	CA_5A-66D		No
4CC#13	CA_5B-46C	B46 SCC only	No
4CC#14	CA_5B-66B		5CC#22, 5CC#39
4CC#15	CA_5B-66C		5CC#23, 5CC#40
4CC#16	CA_7A-46D	B46 SCC only	5CC#24, 5CC#35, 5CC#41, 6CC#15
4CC#17	CA_7C-46C	B46 SCC only	No
4CC#18	CA_12A-46D	B46 SCC only	No
4CC#19	CA_13A-46D	B46 SCC only	5CC#25, 5CC#42, 5CC#43, 6CC#16, 6CC#17, 6CC#20, 7CC#6
4CC#20	CA_13A-48D		5CC#26, 5CC#44, 5CC#46
4CC#21	CA_13A-66D		5CC#27
4CC#22	CA_25A-41D		5CC#47
4CC#23	CA_25A-46D	B46 SCC only	No
4CC#24	CA_41A-41D		No
4CC#26	CA_41A-46D	B46 SCC only	No
4CC#27	CA_41C-41C		No
4CC#32	CA_46D-66A	B46 SCC only	5CC#29, 5CC#36, 5CC#43, 5CC#50, 5CC#51, 6CC#14, 6CC#17, 6CC#18, 6CC#19, 6CC#20, 7CC#5, 7CC#6
4CC#33	CA_48A-48D		5CC#30, 5CC#40, 5CC#47, 5CC#57
4CC#34	CA_48C-48C		5CC#31, 5CC#45, 5CC#55
4CC#35	CA_48C-66B		5CC#52
4CC#36	CA_48C-66C		5CC#53
4CC#37	CA_48D-66A		5CC#32, 5CC#38, 5CC#46, 5CC#54
4CC#38	CA_2A-2A-5B		5CC#58
4CC#39	CA_2A-2A-12B		5CC#59
4CC#40	CA_2A-2A-46C	B46 SCC only	No
4CC#41	CA_2A-2A-66B		5CC#56, 5CC#60, 5CC#61
4CC#42	CA_2A-2A-66C		5CC#57, 5CC#62
4CC#43	CA_2A-4A-5B		No
4CC#44	CA_2A-4A-7C		No
4CC#45	CA_2A-4A-12B		No
4CC#46	CA_2A-5A-7C		No
4CC#47	CA_2A-5A-12B		No
4CC#48	CA_2A-5A-46C	B46 SCC only	5CC#63, 6CC#21
4CC#49	CA_2A-5A-48C		5CC#64
4CC#50	CA_2A-5A-66B		5CC#56

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#51	CA_2A-5A-66C		5CC#57
4CC#52	CA_2A-5B-66A		5CC#58, 5CC#65
4CC#53	CA_2A-7A-12B		5CC#67
4CC#54	CA_2A-7A-46C	B46 SCC only	5CC#66
4CC#55	CA_2A-7C-13A		No
4CC#56	CA_2A-7C-29A	B29 SCC only	5CC#68
4CC#57	CA_2A-7C-66A		5CC#68, 5CC#69
4CC#58	CA_2A-12A-66C		No
4CC#59	CA_2A-12B-66A		5CC#59, 5CC#70, 5CC#73
4CC#60	CA_2A-13A-46C	B46 SCC only	5CC#71, 5CC#72, 6CC#22
4CC#61	CA_2A-13A-48C		5CC#73, 5CC#74
4CC#62	CA_2A-13A-66B		5CC#60, 5CC#75
4CC#63	CA_2A-13A-66C		5CC#76
4CC#64	CA_2A-46A-46C	B46 SCC only	5CC#71, 5CC#77
4CC#65	CA_2A-46C-66A	B46 SCC only	5CC#63, 5CC#72, 5CC#77, 5CC#78, 6CC#21, 6CC#22
4CC#66	CA_2A-48A-48C		5CC#73, 5CC#79
4CC#67	CA_2A-48C-66A		5CC#64, 5CC#74, 5CC#79
4CC#68	CA_2A-66A-66B		5CC#61, 5CC#75
4CC#69	CA_2A-66A-66C		5CC#62, 5CC#76
4CC#70	CA_2C-66A-66A		No
4CC#71	CA_4A-4A-5B		No
4CC#72	CA_4A-4A-12B		No
4CC#73	CA_4A-5A-12B		No
4CC#74	CA_4A-13A-48C		No
4CC#75	CA_4A-46A-46C	B46 SCC only	No
4CC#76	CA_4A-48A-48C		No
4CC#77	CA_5A-5A-66B		No
4CC#78	CA_5A-5A-66C		No
4CC#79	CA_5A-7A-46C	B46 SCC only	No
4CC#80	CA_5A-7C-66A		5CC#80
4CC#81	CA_5A-46C-66A	B46 SCC only	5CC#63, 5CC#81, 6CC#21
4CC#82	CA_5A-48A-48C		No
4CC#83	CA_5A-48C-66A		5CC#64
4CC#84	CA_5A-66A-66B		No
4CC#85	CA_5A-66A-66C		No
4CC#86	CA_5B-66A-66A		5CC#64
4CC#87	CA_7A-7A-46C	B46 SCC only	5CC#66
4CC#88	CA_7A-12B-66A		5CC#67
4CC#89	CA_7C-29A-66A	B29 SCC only	5CC#68
4CC#90	CA_7C-66A-66A		5CC#69, 5CC#80
4CC#91	CA_12B-66A-66A		5CC#70
4CC#92	CA_13A-46A-46C	B46 SCC only	5CC#71
4CC#93	CA_13A-46C-66A	B46 SCC only	5CC#72, 5CC#82, 6CC#22
4CC#94	CA_13A-48A-48C		5CC#73, 5CC#83
4CC#95	CA_13A-48A-66B		No
4CC#96	CA_13A-48A-66C		No

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#97	CA_13A-48C-66A		5CC#74, 5CC#83
4CC#98	CA_13A-66A-66B		5CC#75
4CC#99	CA_13A-66A-66C		5CC#76
4CC#100	CA_25A-25A-41C		No
4CC#101	CA_25A-26A-41C		No
4CC#102	CA_41A-41A-41C		No
4CC#105	CA_46A-46C-66A	B46 SCC only	5CC#77
4CC#106	CA_46C-66A-66A	B46 SCC only	5CC#78, 5CC#81, 5CC#82, 6CC#21, 6CC#22
4CC#107	CA_48A-48A-66B		No
4CC#108	CA_48A-48A-66C		No
4CC#109	CA_48A-48C-66A		5CC#79, 5CC#83
4CC#110	CA_48C-66A-66A		No
4CC#111	CA_2A-2A-4A-4A		No
4CC#112	CA_2A-2A-4A-5A		No
4CC#113	CA_2A-2A-4A-12A		No
4CC#114	CA_2A-2A-4A-13A		No
4CC#115	CA_2A-2A-5A-12A		5CC#84
4CC#116	CA_2A-2A-5A-66A		5CC#84, 5CC#85
4CC#117	CA_2A-2A-7A-12A		5CC#86
4CC#118	CA_2A-2A-7A-66A		5CC#86
4CC#119	CA_2A-2A-12A-12A		No
4CC#120	CA_2A-2A-12A-66A		5CC#84, 5CC#86, 5CC#87
4CC#121	CA_2A-2A-13A-66A		5CC#88
4CC#122	CA_2A-2A-14A-66A		5CC#89
4CC#123	CA_2A-2A-66A-66A		5CC#85, 5CC#87, 5CC#88, 5CC#89
4CC#124	CA_2A-4A-4A-5A		No
4CC#125	CA_2A-4A-4A-12A		No
4CC#126	CA_2A-4A-5A-12A		No
4CC#127	CA_2A-4A-7A-7A		No
4CC#128	CA_2A-4A-7A-12A		No
4CC#129	CA_2A-4A-12A-12A		No
4CC#130	CA_2A-5A-7A-7A		No
4CC#131	CA_2A-5A-12A-66A		5CC#84
4CC#132	CA_2A-5A-46A-66A	B46 SCC only	5CC#90
4CC#133	CA_2A-5A-48A-48A		No
4CC#134	CA_2A-5A-48A-66A		No
4CC#135	CA_2A-5A-66A-66A		5CC#85, 5CC#90, 6CC#21, 7CC#5
4CC#136	CA_2A-7A-7A-13A		No
4CC#137	CA_2A-7A-7A-29A	B29 SCC only	5CC#91
4CC#138	CA_2A-7A-7A-46A	B46 SCC only	No
4CC#139	CA_2A-7A-7A-66A		5CC#91, 5CC#92
4CC#140	CA_2A-7A-12A-66A		5CC#86
4CC#141	CA_2A-7A-29A-66A	B29 SCC only	5CC#91
4CC#142	CA_2A-7A-46A-66A	B46 SCC only	No
4CC#143	CA_2A-7A-66A-66A		5CC#92

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#144	CA_2A-12A-66A-66A		5CC#87
4CC#145	CA_2A-13A-46A-46A	B46 SCC only	No
4CC#146	CA_2A-13A-46A-66A		5CC#93
4CC#147	CA_2A-13A-48A-48A		5CC#94
4CC#148	CA_2A-13A-48A-66A		5CC#94
4CC#149	CA_2A-13A-66A-66A		5CC#88, 5CC#93, 6CC#22, 7CC#6
4CC#150	CA_2A-14A-66A-66A		5CC#89, 5CC#95
4CC#151	CA_2A-46A-46A-66A	B46 SCC only	No
4CC#152	CA_2A-46A-66A-66A	B46 SCC only	5CC#90, 5CC#93
4CC#153	CA_2A-48A-48A-66A		5CC#94
4CC#154	CA_2A-48A-66A-66A		No
4CC#155	CA_2A-66A-66A-66A		5CC#95
4CC#156	CA_4A-4A-5A-12A		No
4CC#157	CA_4A-4A-12A-12A		No
4CC#158	CA_5A-5A-66A-66A		No
4CC#159	CA_5A-7A-66A-66A		No
4CC#160	CA_5A-46A-66A-66A	B46 SCC only	5CC#90
4CC#161	CA_5A-48A-48A-66A		No
4CC#162	CA_7A-7A-29A-66A	B29 SCC only	5CC#91
4CC#163	CA_7A-7A-66A-66A		5CC#92
4CC#164	CA_13A-46A-66A-66A	B46 SCC only	5CC#93
4CC#165	CA_13A-48A-48A-66A		5CC#94
4CC#166	CA_13A-66A-66A-66A		No
4CC#167	CA_14A-66A-66A-66A		5CC#95
4CC#168	CA_46A-66A-66A-66A	B46 SCC only	No
4CC#169	CA_48A-48A-66A-66A		No
4CC#170	CA_48A-66A-66A-66A		No

Index	5CC	Restriction	Completely Covered by Measurement Superset
5CC#1	CA_48F		No
5CC#2	CA_2A-46E	B46 SCC only	6CC#3, 6CC#4, 6CC#5, 6CC#6, 7CC#1, 7CC#2, 7CC#3
5CC#3	CA_2A-48E		6CC#7
5CC#4	CA_4A-48E		No
5CC#5	CA_5A-46E	B46 SCC only	6CC#3, 6CC#8, 7CC#1, 7CC#4
5CC#6	CA_5B-46D	B46 SCC only	No
5CC#7	CA_7A-46E	B46 SCC only	6CC#4, 6CC#9, 7CC#2
5CC#8	CA_7C-46D	B46 SCC only	No
5CC#9	CA_12A-46E	B46 SCC only	No
5CC#10	CA_13A-46E	B46 SCC only	6CC#5, 6CC#10
5CC#11	CA_13A-48E		6CC#11
5CC#12	CA_25A-41E		No
5CC#13	CA_41A-46E	B46 SCC only	No
5CC#14	CA_41C-41D		NO
5CC#16	CA_46E-66A	B46 SCC only	6CC#6, 6CC#8, 6CC#10, 6CC#13, 7CC#1, 7CC#3, 7CC#4
5CC#17	CA_48C-48D		No
5CC#18	CA_48E-66A		6CC#7, 6CC#11
5CC#19	CA_2A-2A-46D	B46 SCC only	No
5CC#20	CA_2A-5A-46D	B46 SCC only	6CC#14, 7CC#5
5CC#21	CA_2A-5A-48D		No
5CC#22	CA_2A-5B-66B		No
5CC#23	CA_2A-5B-66C		No
5CC#24	CA_2A-7A-46D	B46 SCC only	6CC#15
5CC#25	CA_2A-13A-46D	B46 SCC only	6CC#16, 6CC#17, 7CC#6
5CC#26	CA_2A-13A-48D		No
5CC#27	CA_2A-13A-66D		No
5CC#28	CA_2A-46A-46D	B46 SCC only	6CC#16
5CC#29	CA_2A-46D-66A	B46 SCC only	6CC#14, 6CC#17, 6CC#18, 7CC#5, 7CC#6
5CC#30	CA_2A-48A-48D		No
5CC#31	CA_2A-48C-48C		No
5CC#32	CA_2A-48D-66A		No
5CC#33	CA_4A-46A-46D	B46 SCC only	No
5CC#34	CA_4A-46C-46C	B46 SCC only	No
5CC#35	CA_5A-7A-46D	B46 SCC only	No
5CC#36	CA_5A-46D-66A	B46 SCC only	6CC#14, 6CC#19, 7CC#5
5CC#37	CA_5A-48A-48D		No
5CC#38	CA_5A-48D-66A		No
5CC#39	CA_5B-66A-66B		No
5CC#40	CA_5B-66A-66C		No
5CC#41	CA_7A-7A-46D	B46 SCC only	6CC#15
5CC#42	CA_13A-46A-46D	B46 SCC only	6CC#16
5CC#43	CA_13A-46D-66A	B46 SCC only	6CC#17, 6CC#20, 7CC#6
5CC#44	CA_13A-48A-48D		No
5CC#45	CA_13A-48C-48C		No

Index	5CC	Restriction	Completely Covered by Measurement Superset
5CC#46	CA_13A-48D-66A		No
5CC#47	CA_25A-25A-41D		No
5CC#50	CA_46A-46D-66A	B46 SCC only	No
5CC#51	CA_46D-66A-66A	B46 SCC only	6CC#18, 6CC#19, 6CC#20, 7CC#5, 7CC#6
5CC#52	CA_48A-48C-66B		No
5CC#53	CA_48A-48C-66C		No
5CC#54	CA_48A-48D-66A		No
5CC#55	CA_48C-48C-66A		No
5CC#56	CA_2A-2A-5A-66B		No
5CC#57	CA_2A-2A-5A-66C		No
5CC#58	CA_2A-2A-5B-66A		No
5CC#59	CA_2A-2A-12B-66A		No
5CC#60	CA_2A-2A-13A-66B		No
5CC#61	CA_2A-2A-66A-66B		No
5CC#62	CA_2A-2A-66A-66C		No
5CC#63	CA_2A-5A-46C-66A	B46 SCC only	6CC#21
5CC#64	CA_2A-5A-48C-66A		No
5CC#65	CA_2A-5B-66A-66A		No
5CC#66	CA_2A-7A-7A-46C	B46 SCC only	No
5CC#67	CA_2A-7A-12B-66A		No
5CC#68	CA_2A-7C-29A-66A	B29 SCC only	No
5CC#69	CA_2A-7C-66A-66A		No
5CC#70	CA_2A-12B-66A-66A		No
5CC#71	CA_2A-13A-46A-46C	B46 SCC only	No
5CC#72	CA_2A-13A-46C-66A	B46 SCC only	6CC#22
5CC#73	CA_2A-13A-48A-48C		No
5CC#74	CA_2A-13A-48C-66A		No
5CC#75	CA_2A-13A-66A-66B		No
5CC#76	CA_2A-13A-66A-66C		No
5CC#77	CA_2A-46A-46C-66A	B46 SCC only	No
5CC#78	CA_2A-46C-66A-66A	B46 SCC only	6CC#21, 6CC#22
5CC#79	CA_2A-48A-48C-66A		No
5CC#80	CA_5A-7C-66A-66A		No
5CC#81	CA_5A-46C-66A-66A	B46 SCC only	6CC#21
5CC#82	CA_13A-46C-66A-66A	B46 SCC only	6CC#22
5CC#83	CA_13A-48A-48C-66A		No
5CC#84	CA_2A-2A-5A-12A-66A		No
5CC#85	CA_2A-2A-5A-66A-66A		No
5CC#86	CA_2A-2A-7A-12A-66A		No
5CC#87	CA_2A-2A-12A-66A-66A		No
5CC#88	CA_2A-2A-13A-66A-66A		No
5CC#89	CA_2A-2A-14A-66A-66A		No
5CC#90	CA_2A-5A-46A-66A-66A	B46 SCC only	No
5CC#91	CA_2A-7A-7A-29A-66A	B29 SCC only	No
5CC#92	CA_2A-7A-7A-66A-66A		No
5CC#93	CA_2A-13A-46A-66A-66A	B46 SCC only	No
5CC#94	CA_2A-13A-48A-48A-66A		No
5CC#95	CA_2A-14A-66A-66A-66A		No

Index	6CC	Restriction	Completely Covered by Measurement Superset
6CC#1	CA_5B-46E	B46 SCC only	No
6CC#2	CA_7C-46E	B46 SCC only	No
6CC#3	CA_2A-5A-46E	B46 SCC only	7CC#1
6CC#4	CA_2A-7A-46E	B46 SCC only	7CC#2
6CC#5	CA_2A-13A-46E	B46 SCC only	No
6CC#6	CA_2A-46E-66A	B46 SCC only	7CC#1, 7CC#3
6CC#7	CA_2A-48E-66A		No
6CC#8	CA_5A-46E-66A	B46 SCC only	7CC#1, 7CC#4
6CC#9	CA_7A-7A-46E	B46 SCC only	7CC#2
6CC#10	CA_13A-46E-66A	B46 SCC only	No
6CC#11	CA_13A-48E-66A		No
6CC#13	CA_46E-66A-66A	B46 SCC only	7CC#3, 7CC#4
6CC#14	CA_2A-5A-46D-66A	B46 SCC only	7CC#5
6CC#15	CA_2A-7A-7A-46D	B46 SCC only	No
6CC#16	CA_2A-13A-46A-46D	B46 SCC only	No
6CC#17	CA_2A-13A-46D-66A	B46 SCC only	7CC#6
6CC#18	CA_2A-46D-66A-66A	B46 SCC only	7CC#5, 7CC#6
6CC#19	CA_5A-46D-66A-66A	B46 SCC only	7CC#5
6CC#20	CA_13A-46D-66A-66A	B46 SCC only	7CC#6
6CC#21	CA_2A-5A-46C-66A-66A	B46 SCC only	No
6CC#22	CA_2A-13A-46C-66A-66A	B46 SCC only	No

Index	7CC	Restriction	Completely Covered by Measurement Superset
7CC#1	CA_2A-5A-46E-66A	B46 SCC only	
7CC#2	CA_2A-7A-7A-46E	B46 SCC only	
7CC#3	CA_2A-46E-66A-66A	B46 SCC only	
7CC#4	CA_5A-46E-66A-66A	B46 SCC only	
7CC#5	CA_2A-5A-46D-66A-66A	B46 SCC only	
7CC#6	CA_2A-13A-46D-66A-66A	B46 SCC only	

DLCA power measurement result

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to 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.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

Conducted power was evaluated following described in LTE power measurement section.

LTE Band 2 as PCC

[illegible]

Index	Combination	PCC								SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				SCC 6				Power [dBm]		Delta [dB]				
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	DL CA Enabled						
																																		PCC DL SISO	PCC DL 4x4 MIMO		Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO	
SCC#67	CA_2A-7A-12B-66A	2	20	18700	1860	QPSK	1	99	700	1940	7	20	3100	2655	12	5	5095	737.5	12	5	5047	732.7	66	20	66786	2145	-	-	-	-	-	-	-	-	22.85	22.85	22.86	-0.01	-0.01	
SCC#68	CA_2A-7C-29A-66A	2	20	18700	1860	QPSK	1	99	700	1940	7	20	3100	2655	7	20	2902	2635.2	29	10	9715	722.5	66	20	66786	2145	-	-	-	-	-	-	-	-	22.87	22.88	22.86	0.01	0.02	
SCC#69	CA_2A-7C-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	7	20	3100	2655	7	20	2902	2635.2	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.85	22.86	22.86	-0.01	0.00	
SCC#70	CA_2A-12B-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	12	5	5095	737.5	12	5	5047	732.7	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.88	22.89	22.86	0.02	0.03	
SCC#71	CA_2A-13A-46A-46C	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	46	20	46890	5160	46	20	54440	5915	46	20	54242	5895.2	-	-	-	-	-	-	-	-	22.87	22.88	22.86	0.01	0.02	
SCC#73	CA_2A-13A-48A-48C	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	48	20	55340	3660	48	20	56640	3690	48	20	56442	3670.2	-	-	-	-	-	-	-	-	22.88	22.88	22.86	0.02	0.02	
SCC#74	CA_2A-13A-48C-66A	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	48	20	55990	3625	48	20	55792	3605.2	66	20	66786	2145	-	-	-	-	-	-	-	-	22.87	22.81	22.86	0.01	-0.05	
SCC#75	CA_2A-13A-66A-66B	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	66	20	66786	2145	66	10	66486	2115	66	10	66589	2124.2	-	-	-	-	-	-	-	-	22.87	22.86	22.86	0.01	0.00	
SCC#76	CA_2A-13A-66A-66C	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	66	20	67038	2140.7	-	-	-	-	-	-	-	-	22.83	22.84	22.86	-0.03	-0.02	
SCC#77	CA_2A-46A-66C-66A	2	20	18700	1860	QPSK	1	99	700	1940	46	20	53340	5160	46	20	54440	5915	46	20	54542	5895.2	66	20	66786	2145	-	-	-	-	-	-	-	-	22.87	22.88	22.86	-0.01	0.01	
SCC#79	CA_2A-48A-48C-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	55340	3660	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	-	-	-	-	-	-	-	-	22.86	22.89	22.86	0.00	0.03	
SCC#84	CA_2A-5A-12A-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	1100	1980	5	10	2525	881.5	12	10	5095	737.5	66	20	66786	2145	-	-	-	-	-	-	-	-	22.86	22.86	22.86	0.00	0.00	
SCC#85	CA_2A-5A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	1100	1980	5	10	2525	881.5	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.91	22.93	22.86	0.05	0.07	
SCC#86	CA_2A-7A-12A-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	1100	2655	7	20	3100	2655	12	10	5095	737.5	66	20	66786	2145	-	-	-	-	-	-	-	-	22.85	22.83	22.86	-0.01	-0.03	
SCC#87	CA_2A-12A-12A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	1100	1980	12	10	5095	737.5	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.89	22.90	22.86	0.03	0.04	
SCC#88	CA_2A-2A-13A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	1100	1980	13	10	5230	751	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.84	22.83	22.86	-0.02	-0.03	
SCC#89	CA_2A-2A-14A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	2	20	1100	1980	14	10	5330	763	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.90	22.92	22.86	0.04	0.06	
SCC#90	CA_2A-5A-46A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	5	10	2525	881.5	46	20	50665	5537.5	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.89	22.84	22.86	0.03	-0.02	
SCC#91	CA_2A-7A-7A-29A-66A	2	20	18700	1860	QPSK	1	99	700	1940	7	20	2850	2630	7	20	3350	2680	29	10	9715	722.5	66	20	66786	2145	-	-	-	-	-	-	-	-	22.88	22.84	22.86	0.02	-0.02	
SCC#92	CA_2A-7A-7A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	7	20	2850	2630	7	20	3350	2680	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.84	22.83	22.86	-0.02	-0.03	
SCC#93	CA_2A-13A-46A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	46	20	50665	5537.5	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	22.93	22.86	22.86	0.07	0.00	
SCC#94	CA_2A-13A-48A-48A-66A	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	48	20	55340	3660	48	20	56640	3690	66	20	66786	2145	-	-	-	-	-	-	-	-	22.91	22.91	22.86	0.05	0.05	
SCC#95	CA_2A-14A-66A-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	14	10	5330	763	66	20	66536	2120	66	20	66786	2145	66	20	67236	2190	-	-	-	-	-	-	-	-	22.88	22.88	22.86	0.02	0.02	
7CC#1	CA_2A-5A-48E-66A	2	20	18700	1860	QPSK	1	99	700	1940	5	10	2525	881.5	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	46	20	50071	5478.1	66	20	66786	2145	22.88	22.91	22.86	0.02	0.05	
7CC#2	CA_2A-7A-7A-46E	2	20	18700	1860	QPSK	1	99	700	1940	7	20	2850	2630	7	20	3350	2680	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	46	20	50071	5478.1	22.88	22.84	22.86	0.02	-0.02	
7CC#3	CA_2A-46E-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	46	20	50071	5478.1	66	20	66536	2120	66	20	67236	2190	22.87	22.88	22.86	0.01	0.02	
7CC#4	CA_2A-5A-46D-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	5	10	2525	881.5	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	66	20	66536	2120	66	20	67236	2190	22.86	22.89	22.86	0.00	0.03	
7CC#6	CA_2A-13A-46D-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	66	20	66536	2120	66	20	67236	2190	22.89	22.91	22.86	0.03	0.05	
6CC#5	CA_2A-13A-46E	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	46	20	50071	5478.1	-	-	-	-	-	22.88	22.89	22.86	0.02	0.03
6CC#7	CA_2A-48E-66A	2	20	18700	1860	QPSK	1	99	700	1940	48	20	55990	3605.2	48	20	55594	3685.4	48	20	55096	3656.6	66	20	66786	2145	-	-	-	-	-	-	-	-	22.89	22.87	22.86	0.03	0.01	
6CC#15	CA_2A-7A-7A-46D	2	20	18700	1860	QPSK	1	99	700	1940	7	20	2850	2630	7	20	3350	2680	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	-	-	-	-	-	22.88	22.85	22.86	0.02	-0.01
6CC#16	CA_2A-13A-46A-46D	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	46	20	50665	5537.5	46	20	46890	5160	46	20	47088	5179.8	46	20	47286	5199.6	-	-	-	-	-	22.90	22.87	22.86	0.04	-0.01
6CC#21	CA_2A-5A-46C-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	5	10	2525	881.5	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	22.87	22.89	22.86	0.01	0.03
6CC#22	CA_2A-13A-46C-66A-66A	2	20	18700	1860	QPSK	1	99	700	1940	13	10	5230	751	46	20	50665	5537.5	46	20	50467	5517.7	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	22.88	22.86	22.86	0.02	0.00

LTE Band 4 as PCC

[illegible]

LTE Band 5 as PCC

[illegible]

LTE Band 7 as PCC

[illegible]

LTE Band 12 as PCC

[illegible]

LTE Band 13 as PCC

[illegible]

LTE Band 25 as PCC

Combination	PCC								SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				SCC 6				Power [dBm]		Delta [dB]					
	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	DL CA Enabled		Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO			
																																	PCC DL SISO	PCC DL 4x4 MIMO						
CA_25A-46A	25	20	26990	1905	QPSK	1	0	8590	1985	46	20	50665	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.87	22.90	22.89	-0.02	0.01		
CA_25A-46C	25	20	26990	1905	QPSK	1	0	8590	1985	46	20	50467	5517.7	46	20	50269	5497.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.85	22.87	22.89	-0.04	-0.02	
CA_25A-25A-25A	25	20	26990	1905	QPSK	1	0	8590	1985	25	20	8365	1962.5	25	20	8140	8140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.92	22.90	22.89	0.03	0.01	
CA_25A-25A-26A	25	20	26990	1905	QPSK	1	0	8590	1985	25	20	8140	1940	26	5	8865	8865	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.91	22.93	22.89	0.02	0.04	
CA_25A-25A-41A	25	20	26990	1905	QPSK	1	0	8590	1985	25	20	8140	1940	41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.91	22.85	22.89	0.02	-0.04	
CA_25A-26A-41A	25	20	26990	1905	QPSK	1	0	8590	1985	26	15	8865	8765	41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.84	22.84	22.89	-0.05	-0.05	
CA_25A-46D	25	20	26990	1905	QPSK	1	0	8590	1985	46	20	50665	5537.5	46	20	50467	5517.7	46	20	50269	5497.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.92	22.83	22.89	0.03	-0.06
CA_25A-25A-41C	25	20	26990	1905	QPSK	1	0	8590	1985	25	20	8140	1940	41	20	40620	2593	41	20	40422	2573.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.94	22.91	22.89	0.05	0.02
CA_25A-26A-41C	25	20	26990	1905	QPSK	1	0	8590	1985	26	15	8865	8765	41	20	40620	2593	41	20	40422	2573.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.84	22.86	22.89	-0.05	-0.03
CA_25A-41E	25	20	26990	1905	QPSK	1	0	8590	1985	41	20	40620	2593	41	20	40422	2573.2	41	20	40224	2553.4	41	20	40026	2533.6	-	-	-	-	-	-	-	-	-	-	22.87	22.89	22.89	-0.02	0.00
CA_25A-25A-41D	25	20	26990	1905	QPSK	1	0	8590	1985	25	20	8140	1940	41	20	40620	2593	41	20	40422	2573.2	41	20	40224	2553.4	-	-	-	-	-	-	-	-	-	-	22.85	22.89	22.89	-0.04	0.00

LTE Band 26 as PCC

Index	Combination	PCC								SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				SCC 6				Power (dBm)			Delta (dB)		
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	DL CA Enabled		Single Carrier			
																																		PCC DL SISO	PCC DL 2x2 MIMO				
2CC#63	CA 26A-46A	26	10	26740	819	QPSK	1	0	8740	864	46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.97	22.98	22.96	0.01	0.02

LTE Band 38 as PCC

[illegible]

LTE Band 41 as PCC

[illegible]

*1 : FCC

*2 : ISED

LTE Band 48 as PCC

Index	Combination	PCC							SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				SCC 6				Power [dBm]			Delta [dB]					
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL FRB / Offset	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Ch	DL Freq. [MHz]	PCC DL SISO	PCC DL 4x4 MIMO	Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO			
4CC#107	CA_48A-48A-66B	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	55340	3560	66	10	66786	2145	66	10	66687	2135.1	-	-	-	-	-	-	-	-	-	-	-	-	-	7.64	7.62	7.69	-0.05	-0.07	
4CC#108	CA_48A-48A-66C	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	55340	3560	66	20	66786	2145	66	10	66687	2125.2	-	-	-	-	-	-	-	-	-	-	-	-	-	7.66	7.63	7.69	-0.03	-0.06	
4CC#110	CA_48C-66A-66A	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	-	-	-	7.73	7.69	7.69	0.04	0.00	
4CC#169	CA_48A-48A-66A-66A	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	55340	3560	66	20	66536	2120	66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	-	-	-	15.54	15.49	7.69	7.85	7.80	
5CC#1	CA_48F	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	48	20	55811	3607.1	48	20	55613	3587.3	48	20	55415	3567.5	-	-	-	-	-	-	-	-	-	-	7.69	7.65	7.69	0.00	-0.04
5CC#17	CA_48C-48D	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	-	-	-	-	-	-	-	-	-	-	7.62	7.64	7.69	-0.07	-0.05
5CC#52	CA_48A-48C-66B	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	48	20	55340	3560	66	10	66786	2145	66	10	66687	2135.1	-	-	-	-	-	-	-	-	-	-	7.65	7.66	7.69	-0.04	-0.03
5CC#53	CA_48A-48C-66C	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	48	20	55340	3560	66	20	66786	2145	66	20	66588	2125.2	-	-	-	-	-	-	-	-	-	-	7.67	7.65	7.69	-0.02	-0.04
5CC#54	CA_48A-48D-66A	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	48	20	55811	3607.1	48	20	56405	3666.5	66	20	66588	2125.2	-	-	-	-	-	-	-	-	-	-	7.7	7.66	7.69	0.01	-0.03
5CC#55	CA_48C-48C-66A	48	20	56207	3646.7	1QAM	1	0	56207	3646.7	48	20	56009	3626.9	48	20	55340	3560	48	20	55538	3579.8	66	20	66588	2125.2	-	-	-	-	-	-	-	-	-	-	7.67	7.68	7.69	-0.02	-0.01

LTE Band 66 as PCC

Index	Combination	PCC							SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				SCC 6				Power [dBm]			Delta			
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL FRB / Offset	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	DL CA Enabled		Single Carrier	PCC SISO	PCC DL 4x4 MIMO	
																																		PCC DL SISO	PCC DL 4x4 MIMO				
3CC#50	CA_46A-66C	66	20	132572	1770	QPSK	1	0	67036	2170	66	20	66838	2150.2	46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.89	22.91	22.97	-0.08	-0.06	
3CC#137	CA_29A-66A-66A	66	20	132572	1770	QPSK	1	0	67036	2170	66	20	66536	2120	29	10	9715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.94	22.99	22.97	-0.03	0.02	
4CC#168	CA_46A-66A-66A-66A	66	20	132572	1770	QPSK	1	0	67036	2170	66	20	66536	2120.6	66	20	66786	2145	46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	22.93	22.96	22.97	-0.04	-0.01
4CC#170	CA_48A-66A-66A-66A	66	20	132572	1770	QPSK	1	0	67036	2170	66	20	66536	2120.6	66	20	67236	2190	48	20	55990	3625	-	-	-	-	-	-	-	-	-	-	-	-	23.00	23.00	22.97	0.03	0.03
5CC#50	CA_46A-46D-66A	66	20	132572	1770	QPSK	1	0	67036	2170	46	20	50665	5537.5	46	20	54440	5915	46	20	54242	5895.2	46	20	54044	5875.4	-	-	-	-	-	-	-	-	22.97	22.98	22.97	0.00	0.01

NR

For NR bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead.

n 2 full

BW			20 MHz				ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	372000 / 1860	376000 / 1880	380000 / 1900	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.19	23.16	23.06	
			0	53	1	24.5	23.14	23.15	23.03	
			0	104	1	24.5	23.20	23.13	23.00	
			0.5	0	50	24.0	22.61	22.58	22.52	
			0	28	50	24.5	23.13	23.10	23.01	
			0.5	56	50	24.0	22.70	22.63	22.51	
			0.5	0	100	24.0	22.66	22.60	22.51	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.13	23.16	23.05	
			0	53	1	24.5	23.18	23.15	23.01	
			0	104	1	24.5	23.15	23.12	23.04	
			1	0	50	23.5	22.10	22.10	22.00	
			0	28	50	24.5	23.13	23.14	23.03	
			1	56	50	23.5	22.19	22.11	22.02	
			1	0	100	23.5	22.14	22.11	22.01	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.09	22.04	21.94	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.60	20.51	20.47	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.89	18.85	18.74	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.79	21.72	21.68	
BW			15 MHz				ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	371500 / 1857.5	376000 / 1880	380500 / 1902.5	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.14	23.05	22.98	
			0	40	1	24.5	23.12	23.06	22.97	
			0	77	1	24.5	23.11	23.07	22.96	
			0.5	0	36	24.0	22.53	22.48	22.42	
			0	22	36	24.5	23.01	22.98	22.92	
			0.5	43	36	24.0	22.57	22.55	22.44	
			0.5	0	75	24.0	22.51	22.46	22.45	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.13	23.06	22.98	
			0	40	1	24.5	23.11	23.03	22.94	
			0	77	1	24.5	23.10	23.04	22.95	
			1	0	36	23.5	22.06	22.02	21.94	
			0	22	36	24.5	23.01	23.05	22.93	
			1	43	36	23.5	22.08	22.10	22.00	
			1	0	75	23.5	22.11	22.10	21.97	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.05	22.01	21.88	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.53	20.51	20.40	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.83	18.84	18.70	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.73	21.71	21.57	
BW			10 MHz				ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	371000 / 1855	376000 / 1880	381000 / 1905	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.08	22.98	23.02	
			0	26	1	24.5	23.06	23.04	23.01	
			0	50	1	24.5	23.05	23.06	23.00	
			0.5	0	25	24.0	22.52	22.42	22.53	
			0	14	25	24.5	23.01	22.98	23.00	
			0.5	27	25	24.0	22.49	22.58	22.52	
			0.5	0	50	24.0	22.54	22.49	22.55	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.07	23.02	23.01	
			0	26	1	24.5	23.05	23.05	22.99	
			0	50	1	24.5	23.04	23.04	23.00	
			1	0	25	23.5	22.02	22.02	22.01	
			0	14	25	24.5	23.04	23.01	23.00	
			1	27	25	23.5	22.07	22.06	22.03	
			1	0	50	23.5	22.10	22.00	22.03	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.00	21.88	22.03	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.46	20.35	20.53	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.80	18.72	18.63	
CP-OFDM	OPSK	15	1.5	1	1	23.0	21.63	21.56	21.61	

BW		5 MHz			ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	370500 / 1852.5	376000 / 1880	381500 / 1907.5
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.00	22.95	22.93
			0	13	1	24.5	23.07	23.03	23.01
			0	23	1	24.5	23.04	23.08	22.98
			0.5	0	12	24.0	22.57	22.54	22.53
			0	7	12	24.5	23.06	23.05	23.00
			0.5	13	12	24.0	22.56	22.59	22.51
			0.5	0	25	24.0	22.49	22.47	22.49
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.04	23.07	22.99
			0	13	1	24.5	23.06	23.05	23.00
			0	23	1	24.5	23.03	23.04	22.98
			1	0	12	23.5	22.09	22.12	22.06
			0	7	12	24.5	23.05	23.07	23.00
			1	13	12	23.5	22.12	22.17	22.11
			1	0	25	23.5	22.04	22.06	21.98
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.00	22.05	21.98
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.45	20.49	20.42
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.63	18.63	18.58
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.61	21.66	21.59

n 2 red

BW		20 MHz		Setting value: 145 ch/MHz						
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	372000 / 1860 [dBm]	376000 / 1880 [dBm]	380000 / 1900 [dBm]	
DFTS-OFDM	BPSK	15	0	1	1	14.9	14.54	14.38	14.21	
			0	53	1	14.9	14.53	14.39	14.20	
			0	104	1	14.9	14.49	14.32	14.14	
			0	0	50	14.9	14.49	14.30	14.17	
			0	28	50	14.9	14.39	14.32	14.12	
			0	56	50	14.9	14.43	14.31	14.15	
			0	0	100	14.9	14.40	14.37	14.14	
DFTS-OFDM	QPSK	15	0	1	1	14.9	14.45	14.31	14.27	
			0	53	1	14.9	14.46	14.32	14.17	
			0	104	1	14.9	14.43	14.34	14.14	
			0	0	50	14.9	14.40	14.24	14.15	
			0	28	50	14.9	14.43	14.26	14.11	
			0	56	50	14.9	14.39	14.25	14.10	
			0	0	100	14.9	14.45	14.33	14.16	
DFTS-OFDM	16QAM	15	0	1	1	14.9	14.42	14.24	14.13	
DFTS-OFDM	64QAM	15	0	1	1	14.9	14.43	14.33	14.19	
DFTS-OFDM	256QAM	15	0	1	1	14.9	14.35	14.22	14.07	
CP-OFDM	QPSK	15	0	1	1	14.9	14.53	14.37	14.17	

						Setting value: 143			
BW		15 MHz		ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	371500 / 1857.5	376000 / 1880	380500 / 1902.5
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	14.9	14.30	14.20	13.99
			0	40	1	14.9	14.28	14.14	13.94
			0	77	1	14.9	14.24	14.16	13.98
			0	0	36	14.9	14.27	14.10	13.91
			0	22	36	14.9	14.21	14.09	13.90
			0	43	36	14.9	14.26	14.15	13.98
			0	0	75	14.9	14.29	14.12	13.89
DFTS-OFDM	QPSK	15	0	1	1	14.9	14.35	14.16	13.94
			0	40	1	14.9	14.31	14.19	13.99
			0	77	1	14.9	14.30	14.17	13.95
			0	0	36	14.9	14.26	14.09	13.85
			0	22	36	14.9	14.13	14.06	13.90
			0	43	36	14.9	14.21	14.17	13.91
			0	0	75	14.9	14.26	14.14	13.94
DFTS-OFDM	16QAM	15	0	1	1	14.9	14.28	14.14	13.95
DFTS-OFDM	64QAM	15	0	1	1	14.9	14.23	14.12	13.95
DFTS-OFDM	256QAM	15	0	1	1	14.9	14.14	14.06	13.86
CP-OFDM	QPSK	15	0	1	1	14.9	14.20	14.14	13.95

BW		10 MHz		Setting value:		143	
				ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	
		[kHz]	[dB]			[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	14.9	371000 / 1855
							14.25
							14.09
							13.90
			0	26	1	14.9	14.29
							14.16
							13.93
DFTS-OFDM	QPSK	15	0	50	1	14.9	14.26
							14.13
							13.88
			0	0	25	14.9	14.17
							14.09
							13.84
			0	14	25	14.9	14.16
DFTS-OFDM	16QAM	15					14.03
							13.82
			0	27	25	14.9	14.20
							14.08
							13.87
			0	0	50	14.9	14.22
							14.09
DFTS-OFDM	64QAM	15					13.85
			0	1	1	14.9	14.29
							14.15
							13.90
			0	26	1	14.9	14.25
							14.08
							13.93
DFTS-OFDM	256QAM	15	0	50	1	14.9	14.22
							14.10
							13.89
			0	0	25	14.9	14.20
							14.05
							13.79
			0	14	25	14.9	14.22
CP-OFDM	QPSK	15					14.02
							13.84
			0	27	25	14.9	14.21
							14.08
							13.86
			0	0	50	14.9	14.22
							14.07
CP-OFDM	16QAM	15					13.92
			0	1	1	14.9	14.19
							14.03
							13.80
			0	1	1	14.9	14.23
							14.01
							13.86
CP-OFDM	64QAM	15	0	1	1	14.9	14.12
							13.92
							13.74
			0	1	1	14.9	14.16
							14.07
							13.74

BW		5 MHz		Setting value:		143	
				ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	
		[kHz]	[dB]			[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	14.9	370500 / 1852.5
							14.29
							14.04
							2.00
			0	13	1	14.9	14.31
							14.18
							13.91
DFTS-OFDM	QPSK	15	0	23	1	14.9	14.30
							14.11
							13.88
			0	0	12	14.9	14.25
							14.02
							13.83
			0	7	12	14.9	14.22
DFTS-OFDM	16QAM	15					14.07
							13.89
			0	13	12	14.9	14.28
							14.10
							13.82
			0	0	25	14.9	14.22
							14.03
DFTS-OFDM	64QAM	15					13.85
			0	1	1	14.9	14.24
							14.06
							13.84
			0	13	1	14.9	14.28
							14.17
							13.85
DFTS-OFDM	256QAM	15	0	23	1	14.9	14.26
							14.09
							13.83
			0	0	12	14.9	14.22
							13.99
							13.77
			0	7	12	14.9	14.24
CP-OFDM	QPSK	15					14.09
							13.85
			0	13	12	14.9	14.21
							14.06
							13.82
			0	0	25	14.9	14.22
							14.02
CP-OFDM	16QAM	15					13.82
			0	1	1	14.9	14.11
							13.95
							13.68
			0	1	1	14.9	14.14
							13.94
							13.77
CP-OFDM	64QAM	15	0	1	1	14.9	14.05
							13.92
							13.68
			0	1	1	14.9	14.20
							13.99
							13.85

n 5 full

BW 20 MHz							ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	166800 / 834 [dBm]	167300 / 836.5 [dBm]	167800 / 839 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5		23.22	
			0	53	1	24.5		23.20	
			0	104	1	24.5		23.14	
			0.5	0	50	24.0		22.76	
			0	28	50	24.5		23.20	
			0.5	56	50	24.0		22.70	
			0.5	0	100	24.0		22.71	
DFTS-OFDM	QPSK	15	0	1	1	24.5		23.21	
			0	53	1	24.5		23.19	
			0	104	1	24.5		23.15	
			1	0	50	23.5		22.19	
			0	28	50	24.5		23.19	
			1	56	50	23.5		22.20	
			1	0	100	23.5		22.27	
DFTS-OFDM	16QAM	15	1	1	1	23.5		22.17	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0		21.05	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0		18.83	
CP-OFDM	QPSK	15	1.5	1	1	23.0		21.80	

BW 15 MHz							ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	166300 / 831.5 [dBm]	167300 / 836.5 [dBm]	168300 / 841.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5		23.23	
			0	40	1	24.5		23.34	
			0	77	1	24.5		23.19	
			0.5	0	36	24.0		22.76	
			0	22	36	24.5		23.16	
			0.5	43	36	24.0		22.72	
			0.5	0	75	24.0		22.69	
DFTS-OFDM	QPSK	15	0	1	1	24.5		23.21	
			0	40	1	24.5		23.29	
			0	77	1	24.5		23.23	
			1	0	36	23.5		22.24	
			0	22	36	24.5		23.16	
			1	43	36	23.5		22.21	
			1	0	75	23.5		22.22	
DFTS-OFDM	16QAM	15	1	1	1	23.5		21.99	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0		21.08	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0		18.84	
CP-OFDM	QPSK	15	1.5	1	1	23.0		21.89	

BW 10 MHz							ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	165800 / 829 [dBm]	167300 / 836.5 [dBm]	168800 / 844 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5		23.17	
			0	26	1	24.5		23.21	
			0	50	1	24.5		23.16	
			0.5	0	25	24.0		22.67	
			0	14	25	24.5		23.17	
			0.5	27	25	24.0		22.72	
			0.5	0	50	24.0		22.70	
DFTS-OFDM	QPSK	15	0	1	1	24.5		23.20	
			0	26	1	24.5		23.20	
			0	50	1	24.5		23.19	
			1	0	25	23.5		22.15	
			0	14	25	24.5		23.16	
			1	27	25	23.5		22.16	
			1	0	50	23.5		22.23	
DFTS-OFDM	16QAM	15	1	1	1	23.5		21.98	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0		20.93	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0		18.71	
CP-OFDM	QPSK	15	1.5	1	1	23.0		21.76	

BW		5 MHz		ch/MHz					
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	165300 / 826.5 [dBm]	167300 / 836.5 [dBm]	169300 / 846.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.36	23.18	23.20
			0	13	1	24.5	23.26	23.14	23.09
			0	23	1	24.5	23.18	23.22	23.00
			0.5	0	12	24.0	22.83	22.62	22.62
			0	7	12	24.5	23.29	23.19	23.09
			0.5	13	12	24.0	22.68	22.63	22.51
			0.5	0	25	24.0	22.73	22.63	22.53
			0	1	1	24.5	23.35	23.21	23.19
DFTS-OFDM	QPSK	15	0	13	1	24.5	23.33	23.20	23.14
			0	23	1	24.5	23.29	23.15	23.05
			1	0	12	23.5	22.31	22.14	22.12
			0	7	12	24.5	23.27	23.17	23.05
			1	13	12	23.5	22.24	22.12	22.00
			1	0	25	23.5	22.28	22.20	22.04
			1	1	1	23.5	22.26	22.04	22.09
			2.5	1	1	22.0	21.13	20.98	20.98
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	21.13	20.98	20.98
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.97	18.72	18.72
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.96	21.83	21.80

n 5 red

BW 20 MHz							Setting value: 194 ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	166800 / 834 [dBm]	167300 / 836.5 [dBm]	167800 / 839 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.4		19.10	
			0	53	1	19.4		18.97	
			0	104	1	19.4		18.81	
			0	0	50	19.4		19.04	
			0	28	50	19.4		18.74	
			0	56	50	19.4		18.96	
			0	0	100	19.4		18.93	
DFTS-OFDM	QPSK	15	0	1	1	19.4		19.08	
			0	53	1	19.4		18.95	
			0	104	1	19.4		18.78	
			0	0	50	19.4		18.98	
			0	28	50	19.4		18.90	
			0	56	50	19.4		18.97	
			0	0	100	19.4		18.96	
DFTS-OFDM	16QAM	15	0	1	1	19.4		19.04	
DFTS-OFDM	64QAM	15	0	1	1	19.4		19.01	
DFTS-OFDM	256QAM	15	0	1	1	19.4		18.77	
CP-OFDM	QPSK	15	0	1	1	19.4		19.01	

BW 15 MHz							Setting value: 194 ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	166300 / 831.5 [dBm]	167300 / 836.5 [dBm]	168300 / 841.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.4		19.01	
			0	40	1	19.4		18.99	
			0	77	1	19.4		18.87	
			0	0	36	19.4		18.94	
			0	22	36	19.4		18.92	
			0	43	36	19.4		18.77	
			0	0	75	19.4		18.89	
DFTS-OFDM	QPSK	15	0	1	1	19.4		19.00	
			0	40	1	19.4		18.95	
			0	77	1	19.4		18.88	
			0	0	36	19.4		18.91	
			0	22	36	19.4		18.87	
			0	43	36	19.4		18.79	
			0	0	75	19.4		18.96	
DFTS-OFDM	16QAM	15	0	1	1	19.4		18.99	
DFTS-OFDM	64QAM	15	0	1	1	19.4		18.98	
DFTS-OFDM	256QAM	15	0	1	1	19.4		18.72	
CP-OFDM	QPSK	15	0	1	1	19.4		19.00	

BW 10 MHz							Setting value: 194 ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	165800 / 829 [dBm]	167300 / 836.5 [dBm]	168800 / 844 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.4		18.82	
			0	26	1	19.4		18.90	
			0	50	1	19.4		18.80	
			0	0	25	19.4		18.94	
			0	14	25	19.4		18.82	
			0	27	25	19.4		18.84	
			0	0	50	19.4		18.84	
DFTS-OFDM	QPSK	15	0	1	1	19.4		18.89	
			0	26	1	19.4		18.91	
			0	50	1	19.4		18.95	
			0	0	25	19.4		18.91	
			0	14	25	19.4		18.83	
			0	27	25	19.4		18.76	
			0	0	50	19.4		18.94	
DFTS-OFDM	16QAM	15	0	1	1	19.4		18.76	
DFTS-OFDM	64QAM	15	0	1	1	19.4		18.78	
DFTS-OFDM	256QAM	15	0	1	1	19.4		18.55	
CP-OFDM	QPSK	15	0	1	1	19.4		18.90	

BW		5 MHz		Setting value:		192			
				ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	165300 / 826.5	167300 / 836.5	169300 / 846.5
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.4	18.99	18.81	18.65
			0	13	1	19.4	18.91	18.79	18.58
			0	23	1	19.4	18.81	18.72	18.46
			0	0	12	19.4	18.87	18.73	18.55
			0	7	12	19.4	18.82	18.66	18.49
			0	13	12	19.4	18.74	18.65	18.38
			0	0	25	19.4	18.73	18.65	18.46
			0	1	1	19.4	18.98	18.71	18.63
DFTS-OFDM	QPSK	15	0	13	1	19.4	18.81	18.72	18.54
			0	23	1	19.4	18.73	18.66	18.48
			0	0	12	19.4	18.83	18.70	18.53
			0	7	12	19.4	18.78	18.71	18.50
			0	13	12	19.4	18.79	18.67	18.42
			0	0	25	19.4	18.74	18.69	18.42
			0	1	1	19.4	18.70	18.67	18.42
			0	1	1	19.4	18.79	18.73	18.52
DFTS-OFDM	16QAM	15	0	1	1	19.4	18.70	18.67	18.42
DFTS-OFDM	64QAM	15	0	1	1	19.4	18.79	18.73	18.52
DFTS-OFDM	256QAM	15	0	1	1	19.4	18.86	18.80	18.58
CP-OFDM	QPSK	15	0	1	1	19.4	18.98	18.74	18.61

n 66 full

BW		20 MHz					ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	344000 / 1720	349000 / 1745	354000 / 1770
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.15	23.32	23.31
			0	53	1	24.5	23.03	23.15	23.16
			0	104	1	24.5	23.33	23.16	23.17
			0.5	0	50	24.0	22.61	22.66	22.60
			0	28	50	24.5	23.06	23.22	23.07
			0.5	56	50	24.0	22.51	22.65	22.61
			0.5	0	100	24.0	22.53	22.71	22.58
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.27	23.27	23.30
			0	53	1	24.5	23.18	23.25	23.25
			0	104	1	24.5	23.30	23.30	23.26
			1	0	50	23.5	22.09	22.22	22.10
			0	28	50	24.5	23.12	23.19	23.17
			1	56	50	23.5	22.06	22.20	22.12
			1	0	100	23.5	22.07	22.22	22.08
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.20	22.25	22.28
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.82	20.80	20.82
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.60	18.68	18.70
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.62	21.68	21.69

BW		15 MHz					ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	343500 / 1717.5	349000 / 1745	354500 / 1772.5
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.21	23.31	23.21
			0	40	1	24.5	23.11	23.20	23.18
			0	77	1	24.5	23.17	23.30	23.22
			0.5	0	36	24.0	22.56	22.72	22.58
			0	22	36	24.5	23.05	23.10	23.00
			0.5	43	36	24.0	22.54	23.00	22.53
			0.5	0	75	24.0	22.57	22.75	22.58
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.17	23.30	23.20
			0	40	1	24.5	23.20	23.29	23.19
			0	77	1	24.5	23.00	23.28	23.18
			1	0	36	23.5	22.07	22.28	22.11
			0	22	36	24.5	23.04	23.21	23.06
			1	43	36	23.5	22.12	22.17	22.04
			1	0	75	23.5	22.16	22.31	22.11
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.22	22.36	22.24
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.82	20.95	20.82
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.68	18.81	18.71
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.65	21.79	21.72

BW		10 MHz					ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	343000 / 1715	349000 / 1745	355000 / 1775
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.16	23.26	23.28
			0	26	1	24.5	23.17	23.37	23.29
			0	50	1	24.5	23.14	23.28	23.19
			0.5	0	25	24.0	22.58	22.63	22.66
			0	14	25	24.5	23.06	23.25	23.19
			0.5	27	25	24.0	22.54	22.69	22.63
			0.5	0	50	24.0	22.60	22.75	22.70
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.16	23.30	23.15
			0	26	1	24.5	23.14	23.31	23.18
			0	50	1	24.5	23.15	23.33	23.28
			1	0	25	23.5	22.08	22.24	22.22
			0	14	25	24.5	23.11	23.31	23.23
			1	27	25	23.5	22.06	22.26	22.17
			1	0	50	23.5	22.06	22.24	22.17
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.16	22.28	22.27
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.70	20.81	20.85
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.62	18.69	18.74
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.59	21.62	21.68

BW		5 MHz		ch/MHz					
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	342500 / 1712.5 [dBm]	349000 / 1745 [dBm]	355500 / 1777.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.10	23.33	23.32
			0	13	1	24.5	23.19	23.31	23.22
			0	23	1	24.5	23.12	23.30	23.23
			0.5	0	12	24.0	22.59	22.75	22.69
			0	7	12	24.5	23.10	23.23	23.19
			0.5	13	12	24.0	22.60	22.74	22.66
			0.5	0	25	24.0	22.54	22.71	22.56
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.18	23.30	23.30
			0	13	1	24.5	23.15	23.31	23.31
			0	23	1	24.5	23.16	23.32	23.29
			1	0	12	23.5	22.10	22.32	22.25
			0	7	12	24.5	23.14	23.30	23.25
			1	13	12	23.5	22.06	22.31	22.17
			1	0	25	23.5	22.03	22.27	22.10
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.13	22.25	22.23
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.79	21.00	20.83
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.57	18.78	18.70
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.55	21.73	21.65

n 66 red

BW 20 MHz							Setting value: 163 ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	344000 / 1720 [dBm]	349000 / 1745 [dBm]	354000 / 1770 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	16.5	16.06	16.04	16.03
			0	53	1	16.5	15.89	16.01	15.82
			0	104	1	16.5	16.05	16.11	16.10
			0	0	50	16.5	16.01	16.10	15.96
			0	28	50	16.5	16.00	16.03	15.94
			0	56	50	16.5	15.91	16.04	15.99
			0	0	100	16.5	15.96	16.04	15.91
DFTS-OFDM	QPSK	15	0	1	1	16.5	15.99	16.08	15.99
			0	53	1	16.5	15.82	16.03	15.86
			0	104	1	16.5	16.04	16.10	16.05
			0	0	50	16.5	16.02	16.10	15.98
			0	28	50	16.5	16.01	16.09	15.99
			0	56	50	16.5	15.98	16.08	15.97
			0	0	100	16.5	15.93	16.07	15.92
DFTS-OFDM	16QAM	15	0	1	1	16.5	15.91	15.96	15.89
DFTS-OFDM	64QAM	15	0	1	1	16.5	15.88	15.92	15.81
DFTS-OFDM	256QAM	15	0	1	1	16.5	16.00	16.03	16.00
CP-OFDM	QPSK	15	0	1	1	16.5	16.01	16.05	15.90

BW 15 MHz							Setting value: 159 ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	343500 / 1717.5 [dBm]	349000 / 1745 [dBm]	354500 / 1772.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	16.5	15.68	15.86	15.82
			0	40	1	16.5	15.67	15.92	15.67
			0	77	1	16.5	15.75	16.00	15.79
			0	0	36	16.5	15.59	15.90	15.66
			0	22	36	16.5	15.54	15.81	15.67
			0	43	36	16.5	15.61	15.84	15.63
			0	0	75	16.5	15.52	15.80	15.69
DFTS-OFDM	QPSK	15	0	1	1	16.5	15.73	15.89	15.80
			0	40	1	16.5	15.69	15.88	15.69
			0	77	1	16.5	15.68	15.97	15.79
			0	0	36	16.5	15.62	15.87	15.68
			0	22	36	16.5	15.55	15.78	15.62
			0	43	36	16.5	15.61	15.82	15.69
			0	0	75	16.5	15.66	15.90	15.71
DFTS-OFDM	16QAM	15	0	1	1	16.5	15.58	15.71	15.63
DFTS-OFDM	64QAM	15	0	1	1	16.5	15.55	15.68	15.68
DFTS-OFDM	256QAM	15	0	1	1	16.5	15.72	15.80	15.74
CP-OFDM	QPSK	15	0	1	1	16.5	15.58	15.95	15.80

BW 10 MHz							Setting value: 159 ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	343000 / 1715 [dBm]	349000 / 1745 [dBm]	355000 / 1775 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	16.5	15.64	15.82	15.60
			0	26	1	16.5	15.60	15.94	15.64
			0	50	1	16.5	15.63	15.90	15.62
			0	0	25	16.5	15.54	15.77	15.54
			0	14	25	16.5	15.52	15.83	15.58
			0	27	25	16.5	15.53	15.80	15.52
			0	0	50	16.5	15.55	15.81	15.57
DFTS-OFDM	QPSK	15	0	1	1	16.5	15.64	15.83	15.64
			0	26	1	16.5	15.61	15.92	15.61
			0	50	1	16.5	15.56	15.86	15.60
			0	0	25	16.5	15.51	15.72	15.57
			0	14	25	16.5	15.49	15.82	15.48
			0	27	25	16.5	15.44	15.77	15.52
			0	0	50	16.5	15.57	15.86	15.60
DFTS-OFDM	16QAM	15	0	1	1	16.5	15.46	15.64	15.42
DFTS-OFDM	64QAM	15	0	1	1	16.5	15.55	15.70	15.56
DFTS-OFDM	256QAM	15	0	1	1	16.5	15.59	15.75	15.56
CP-OFDM	QPSK	15	0	1	1	16.5	15.45	15.86	15.54

BW		5 MHz				Setting value:				159
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	ch/MHz			
							342500 / 1712.5	349000 / 1745	355500 / 1777.5	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	16.5	15.64	15.80	15.60	
			0	13	1	16.5	15.63	15.94	15.59	
			0	23	1	16.5	15.61	15.92	15.58	
			0	0	12	16.5	15.58	15.81	15.60	
			0	7	12	16.5	15.61	15.82	15.55	
			0	13	12	16.5	15.49	15.80	15.56	
			0	0	25	16.5	15.54	15.79	15.49	
			0	1	1	16.5	15.62	15.78	15.55	
DFTS-OFDM	QPSK	15	0	13	1	16.5	15.65	15.85	15.58	
			0	23	1	16.5	15.56	15.86	15.53	
			0	0	12	16.5	15.54	15.81	15.56	
			0	7	12	16.5	15.60	15.82	15.50	
			0	13	12	16.5	15.53	15.86	15.57	
			0	0	25	16.5	15.49	15.77	15.56	
			0	1	1	16.5	15.45	15.81	15.51	
			0	1	1	16.5	15.47	15.93	15.53	
DFTS-OFDM	16QAM	15	0	1	1	16.5	15.45	15.81	15.51	
DFTS-OFDM	64QAM	15	0	1	1	16.5	15.47	15.93	15.53	
DFTS-OFDM	256QAM	15	0	1	1	16.5	15.54	15.72	15.51	
CP-OFDM	QPSK	15	0	1	1	16.5	15.60	15.81	15.53	

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BW		100 MHz		ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit
		[kHz]	[dB]			[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5
			0	137	1	24.5
			0	271	1	24.5
			0.5	0	135	24.0
			0	69	135	24.5
			0.5	138	135	24.0
			0.5	0	270	24.0
DFTS-OFDM	QPSK	30	0	1	1	24.5
			0	137	1	24.5
			0	271	1	24.5
			1	0	135	23.5
			0	69	135	24.5
			1	138	135	23.5
			1	0	270	23.5
DFTS-OFDM	16QAM	30	1	1	1	23.5
DFTS-OFDM	64QAM	30	2.5	1	1	22.0
DFTS-OFDM	256QAM	30	4.5	1	1	20.0
CP-OFDM	QPSK	30	1.5	1	1	23.0

BW		90 MHz		ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit
		[kHz]	[dB]			[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5
			0	123	1	24.5
			0	243	1	24.5
			0.5	0	120	24.0
			0	63	120	24.5
			0.5	125	120	24.0
			0.5	0	243	24.0
DFTS-OFDM	QPSK	30	0	1	1	24.5
			0	123	1	24.5
			0	243	1	24.5
			1	0	120	23.5
			0	63	120	24.5
			1	125	120	23.5
			1	0	243	23.5
DFTS-OFDM	16QAM	30	1	1	1	23.5
DFTS-OFDM	64QAM	30	2.5	1	1	22.0
DFTS-OFDM	256QAM	30	4.5	1	1	20.0
CP-OFDM	QPSK	30	1.5	1	1	23.0

BW		80 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	632666/ 3490 [dBm]	633334/ 3500 [dBm]	634000/ 3510 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5		23.12	
			0	109	1	24.5		22.99	
			0	215	1	24.5		22.88	
			0.5	0	81	24.0		22.46	
			0	55	81	24.5		22.95	
			0.5	109	81	24.0		22.40	
			0.5	0	216	24.0		22.40	
DFTS-OFDM	QPSK	30	0	1	1	24.5		23.10	
			0	109	1	24.5		22.96	
			0	215	1	24.5		22.84	
			1	0	81	23.5		21.98	
			0	55	81	24.5		22.96	
			1	109	81	23.5		21.86	
			1	0	216	23.5		21.95	
DFTS-OFDM	16QAM	30	1	1	1	23.5		21.66	
DFTS-OFDM	64QAM	30	2.5	1	1	22.0		20.57	
DFTS-OFDM	256QAM	30	4.5	1	1	20.0		18.35	
CP-OFDM	QPSK	30	1.5	1	1	23.0		21.55	

BW		60 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	632000/ 3480 [dBm]	633334/ 3500 [dBm]	634666/ 3520 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5		23.02	
			0	81	1	24.5		22.93	
			0	160	1	24.5		22.88	
			0.5	0	81	24.0		22.54	
			0	40	81	24.5		22.88	
			0.5	81	81	24.0		22.37	
			0.5	0	162	24.0		22.41	
DFTS-OFDM	QPSK	30	0	1	1	24.5		23.02	
			0	81	1	24.5		22.94	
			0	160	1	24.5		22.92	
			1	0	81	23.5		21.97	
			0	40	81	24.5		22.86	
			1	81	81	23.5		21.88	
			1	0	162	23.5		21.88	
DFTS-OFDM	16QAM	30	1	1	1	23.5		21.56	
DFTS-OFDM	64QAM	30	2.5	1	1	22.0		20.51	
DFTS-OFDM	256QAM	30	4.5	1	1	20.0		18.24	
CP-OFDM	QPSK	30	1.5	1	1	23.0		21.55	

BW		50 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	631666/ 3475 [dBm]	633334/ 3500 [dBm]	635000/ 3525 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5		23.02	
			0	67	1	24.5		22.84	
			0	131	1	24.5		22.91	
			0.5	0	64	24.0		22.49	
			0	35	64	24.5		22.88	
			0.5	69	64	24.0		22.32	
			0.5	0	128	24.0		22.33	
DFTS-OFDM	QPSK	30	0	1	1	24.5		22.98	
			0	67	1	24.5		22.82	
			0	131	1	24.5		22.85	
			1	0	64	23.5		21.96	
			0	35	64	24.5		22.85	
			1	69	64	23.5		21.81	
			1	0	128	23.5		21.86	
DFTS-OFDM	16QAM	30	1	1	1	23.5		21.54	
DFTS-OFDM	64QAM	30	2.5	1	1	22.0		20.50	
DFTS-OFDM	256QAM	30	4.5	1	1	20.0		18.24	
CP-OFDM	QPSK	30	1.5	1	1	23.0		21.47	

BW		40 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	631334/ 3470 [dBm]	633334/ 3500 [dBm]	635332/ 3530 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5		23.34	
			0	53	1	24.5		23.21	
			0	104	1	24.5		23.24	
			0.5	0	50	24.0		22.71	
			0	28	50	24.5		23.23	
			0.5	56	50	24.0		22.73	
			0.5	0	100	24.0		22.74	
DFTS-OFDM	QPSK	30	0	1	1	24.5		23.30	
			0	53	1	24.5		23.19	
			0	104	1	24.5		23.26	
			1	0	50	23.5		22.24	
			0	28	50	24.5		23.22	
			1	56	50	23.5		22.17	
			1	0	100	23.5		22.25	
DFTS-OFDM	16QAM	30	1	1	1	23.5		21.93	
DFTS-OFDM	64QAM	30	2.5	1	1	22.0		20.85	
DFTS-OFDM	256QAM	30	4.5	1	1	20.0		18.61	
CP-OFDM	QPSK	30	1.5	1	1	23.0		21.83	

BW		30 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	631000/ 3465 [dBm]	633334/ 3500 [dBm]	635666/ 3535 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.15	23.02	22.88
			0	38	1	24.5	23.04	22.91	22.84
			0	74	1	24.5	23.14	23.01	23.02
			0.5	0	37	24.0	22.50	22.48	22.37
			0	20	37	24.5	22.99	22.95	22.91
			0.5	39	37	24.0	22.56	22.48	22.44
			0.5	0	75	24.0	22.52	22.45	22.45
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.05	23.00	22.91
			0	38	1	24.5	23.06	22.99	22.94
			0	74	1	24.5	23.07	22.95	22.89
			1	0	37	23.5	22.02	21.96	21.85
			0	20	37	24.5	23.07	23.00	22.90
			1	39	37	23.5	22.05	21.89	21.80
			1	0	75	23.5	22.06	22.01	21.94
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.05	21.96	21.90
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.73	20.62	20.55
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.52	18.41	18.33
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.62	21.44	21.37

BW		20 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	630668/ 3460 [dBm]	633334/ 3500 [dBm]	636000/ 3540 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.23	23.13	22.95
			0	26	1	24.5	23.10	22.92	22.81
			0	49	1	24.5	23.13	22.96	22.89
			0.5	0	25	24.0	22.62	22.52	22.39
			0	13	25	24.5	23.11	22.98	22.84
			0.5	26	25	24.0	22.59	22.45	22.42
			0.5	0	50	24.0	22.58	22.51	22.39
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.20	23.12	22.93
			0	26	1	24.5	23.05	23.00	22.85
			0	49	1	24.5	23.09	23.05	22.94
			1	0	25	23.5	22.06	22.05	21.89
			0	13	25	24.5	23.04	22.95	22.85
			1	26	25	23.5	22.08	21.97	21.93
			1	0	50	23.5	22.16	21.96	21.87
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.12	22.12	21.94
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.70	20.73	20.63
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.68	18.62	18.52
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.69	21.52	21.44

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Setting value: 168

BW		100 MHz					ch/MHz
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	633334/ 3500 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.65
			0	137	1	17.0	16.61
			0	271	1	17.0	16.49
			0	0	135	17.0	16.52
			0	69	135	17.0	16.50
			0	138	135	17.0	16.47
			0	0	270	17.0	16.52
DFTS-OFDM	QPSK	30	0	1	1	17.0	16.67
			0	137	1	17.0	16.61
			0	271	1	17.0	16.52
			0	0	135	17.0	16.51
			0	69	135	17.0	16.55
			0	138	135	17.0	16.43
			0	0	270	17.0	16.53
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.32
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.51
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.60
CP-OFDM	QPSK	30	0	1	1	17.0	16.49

Setting value: 168

BW		90 MHz					Scaling value: ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	633000/ 3495	633334/ 3500	633666/ 3505
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0		16.69	
			0	123	1	17.0		16.63	
			0	243	1	17.0		16.59	
			0	0	120	17.0		16.55	
			0	63	120	17.0		16.54	
			0	125	120	17.0		16.48	
			0	0	243	17.0		16.56	
DFTS-OFDM	QPSK	30	0	1	1	17.0		16.68	
			0	123	1	17.0		16.63	
			0	243	1	17.0		16.57	
			0	0	120	17.0		16.49	
			0	63	120	17.0		16.51	
			0	125	120	17.0		16.44	
			0	0	243	17.0		16.50	
DFTS-OFDM	16QAM	30	0	1	1	17.0		16.37	
DFTS-OFDM	64QAM	30	0	1	1	17.0		16.36	
DFTS-OFDM	256QAM	30	0	1	1	17.0		16.59	
CP-OFDM	QPSK	30	0	1	1	17.0		16.32	

Setting value: 168

BW		80 MHz					Setting value: ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	632666/ 3490 [dBm]	633334/ 3500 [dBm]	634000/ 3510 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0		16.69	
			0	109	1	17.0		16.59	
			0	215	1	17.0		16.48	
			0	0	81	17.0		16.57	
			0	55	81	17.0		16.54	
			0	109	81	17.0		16.53	
			0	0	216	17.0		16.50	
DFTS-OFDM	QPSK	30	0	1	1	17.0		16.68	
			0	109	1	17.0		16.62	
			0	215	1	17.0		16.48	
			0	0	81	17.0		16.48	
			0	55	81	17.0		16.50	
			0	109	81	17.0		16.42	
			0	0	216	17.0		16.55	
DFTS-OFDM	16QAM	30	0	1	1	17.0		16.32	
DFTS-OFDM	64QAM	30	0	1	1	17.0		16.29	
DFTS-OFDM	256QAM	30	0	1	1	17.0		16.61	
CP-OFDM	QPSK	30	0	1	1	17.0		16.24	

BW		60 MHz					Setting value: ch/MHz			168
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	632000/3480	633334/3500	634666/3520	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	30	0	1	1	17.0		16.59		
			0	81	1	17.0		16.60		
			0	160	1	17.0		16.48		
			0	0	81	17.0		16.57		
			0	40	81	17.0		16.56		
			0	81	81	17.0		16.53		
			0	0	162	17.0		16.55		
DFTS-OFDM	QPSK	30	0	1	1	17.0		16.66		
			0	81	1	17.0		16.62		
			0	160	1	17.0		16.60		
			0	0	81	17.0		16.43		
			0	40	81	17.0		16.53		
			0	81	81	17.0		16.45		
			0	0	162	17.0		16.54		
DFTS-OFDM	16QAM	30	0	1	1	17.0		16.45		
DFTS-OFDM	64QAM	30	0	1	1	17.0		16.17		
DFTS-OFDM	256QAM	30	0	1	1	17.0		16.55		
CP-OFDM	QPSK	30	0	1	1	17.0		16.58		

BW		50 MHz					Setting value: ch/MHz			168
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	631666/3475	633334/3500	635000/3525	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	30	0	1	1	17.0		16.60		
			0	67	1	17.0		16.48		
			0	131	1	17.0		16.46		
			0	0	64	17.0		16.47		
			0	35	64	17.0		16.44		
			0	69	64	17.0		16.46		
			0	0	128	17.0		16.49		
DFTS-OFDM	QPSK	30	0	1	1	17.0		16.61		
			0	67	1	17.0		16.51		
			0	131	1	17.0		16.50		
			0	0	64	17.0		16.44		
			0	35	64	17.0		16.50		
			0	69	64	17.0		16.36		
			0	0	128	17.0		16.48		
DFTS-OFDM	16QAM	30	0	1	1	17.0		16.26		
DFTS-OFDM	64QAM	30	0	1	1	17.0		16.51		
DFTS-OFDM	256QAM	30	0	1	1	17.0		16.40		
CP-OFDM	QPSK	30	0	1	1	17.0		16.54		

BW		40 MHz					Setting value: ch/MHz			168
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	631334/3470	633334/3500	635332/3530	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	30	0	1	1	17.0		16.98		
			0	53	1	17.0		16.77		
			0	104	1	17.0		16.90		
			0	0	50	17.0		16.88		
			0	28	50	17.0		16.69		
			0	56	50	17.0		16.82		
			0	0	100	17.0		16.73		
DFTS-OFDM	QPSK	30	0	1	1	17.0		16.97		
			0	53	1	17.0		16.84		
			0	104	1	17.0		16.80		
			0	0	50	17.0		16.83		
			0	28	50	17.0		16.72		
			0	56	50	17.0		16.76		
			0	0	100	17.0		16.85		
DFTS-OFDM	16QAM	30	0	1	1	17.0		16.75		
DFTS-OFDM	64QAM	30	0	1	1	17.0		16.95		
DFTS-OFDM	256QAM	30	0	1	1	17.0		16.85		
CP-OFDM	QPSK	30	0	1	1	17.0		16.97		

BW		30 MHz		Setting value: 163 ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	631000/3465	633334/3500	635666/3535
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.39	16.35	16.39
			0	38	1	17.0	16.38	16.31	16.35
			0	74	1	17.0	16.42	16.41	16.38
			0	0	37	17.0	16.33	16.25	16.30
			0	20	37	17.0	16.38	16.25	16.20
			0	39	37	17.0	16.41	16.27	16.24
0	0	75	17.0	16.38	16.30	16.23			
DFTS-OFDM	QPSK	30	0	1	1	17.0	16.42	16.41	16.31
			0	38	1	17.0	16.34	16.35	16.28
			0	74	1	17.0	16.36	16.32	16.39
			0	0	37	17.0	16.27	16.23	16.17
			0	20	37	17.0	16.31	16.25	16.19
			0	39	37	17.0	16.33	16.25	16.25
0	0	75	17.0	16.35	16.26	16.24			
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.35	16.29	16.36
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.30	16.35	16.20
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.27	16.20	16.21
CP-OFDM	QPSK	30	0	1	1	17.0	16.39	16.35	16.21

						Setting value:		163	
BW		20 MHz		ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	630668/3460	633334/3500	636000/3540
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.40	16.30	16.19
			0	26	1	17.0	16.31	16.17	16.11
			0	49	1	17.0	16.25	16.12	16.12
			0	0	25	17.0	16.20	16.10	16.03
			0	13	25	17.0	16.25	16.11	16.04
			0	26	25	17.0	16.12	16.01	15.97
			0	0	50	17.0	16.22	16.20	16.01
DFTS-OFDM	QPSK	30	0	1	1	17.0	16.41	16.32	16.26
			0	26	1	17.0	16.31	16.15	16.08
			0	49	1	17.0	16.27	16.12	16.12
			0	0	25	17.0	16.19	16.13	15.92
			0	13	25	17.0	16.20	15.98	15.94
			0	26	25	17.0	16.08	15.99	15.97
			0	0	50	17.0	16.25	16.07	15.96
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.09	15.99	15.96
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.35	16.25	16.21
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.27	16.20	16.09
CP-OFDM	QPSK	30	0	1	1	17.0	16.36	16.23	16.13

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BW		100 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	650000/3750	653000/3795	656000/3840	659000/3885	662000/3930
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5			23.25		
			0	137	1	24.5			23.20		
			0	271	1	24.5			23.27		
			0.5	0	135	24.0			22.66		
			0	69	135	24.5			23.06		
			0.5	138	135	24.0			22.60		
			0.5	0	270	24.0			22.63		
DFTS-OFDM	QPSK	30	0	1	1	24.5			23.20		
			0	137	1	24.5			23.05		
			0	271	1	24.5			23.24		
			1	0	135	23.5			22.08		
			0	69	135	24.5			23.03		
			1	138	135	23.5			22.11		
			1	0	270	23.5			22.03		
DFTS-OFDM	16QAM	30	1	1	1	23.5			22.20		
DFTS-OFDM	64QAM	30	2.5	1	1	22.0			21.04		
DFTS-OFDM	256QAM	30	4.5	1	1	20.0			18.52		
CP-OFDM	QPSK	30	1.5	1	1	23.0			21.73		

BW		90 MHz				ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	649666/3745	652834/3792.5	656000/3840	659166/3887.5	662332/3935
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.12		23.03		23.03
			0	123	1	24.5	23.16		22.89		22.83
			0	243	1	24.5	23.06		22.96		22.81
			0.5	0	120	24.0	22.58		22.41		22.77
			0	63	120	24.5	23.00		22.91		22.93
			0.5	125	120	24.0	22.48		22.38		22.31
			0.5	0	243	24.0	22.52		22.43		22.38
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.04		23.02		23.00
			0	123	1	24.5	22.96		22.86		22.83
			0	243	1	24.5	22.94		22.98		22.86
			1	0	120	23.5	22.00		22.04		21.96
			0	63	120	24.5	22.97		22.98		22.89
			1	125	120	23.5	21.96		22.03		21.83
			1	0	243	23.5	21.98		21.96		21.85
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.06		22.15		22.05
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	21.04		21.10		21.08
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.44		18.51		18.46
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.58		21.64		21.59

BW		80 MHz				ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	649334/3740	652666/3790	656000/3840	659334/3890	662666/3940
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.11		23.08		22.94
			0	109	1	24.5	23.10		22.97		22.78
			0	215	1	24.5	23.00		22.99		22.68
			0.5	0	81	24.0	22.61		22.34		22.34
			0	55	81	24.5	22.87		22.84		22.83
			0.5	109	81	24.0	22.43		22.36		22.27
			0.5	0	216	24.0	22.11		22.41		22.32
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.10		23.05		22.92
			0	109	1	24.5	23.08		22.91		22.88
			0	215	1	24.5	23.07		23.02		22.76
			1	0	81	23.5	22.15		21.97		21.84
			0	55	81	24.5	23.07		22.92		22.82
			1	109	81	23.5	22.01		21.89		21.83
			1	0	216	23.5	22.09		21.91		21.81
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.36		22.25		22.21
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.87		20.85		20.83
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.53		18.40		18.44
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.58		21.58		21.55

BW		60 MHz				ch/MHz					
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	648666/3730	652334/3785	656000/3840	659666/3895	663332/3950
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.06		23.01		22.97
			0	81	1	24.5	23.01		22.95		22.93
			0	160	1	24.5	23.05		23.09		22.86
			0.5	0	81	24.0	22.61		22.43		22.42
			0	40	81	24.5	23.03		22.86		22.93
			0.5	81	81	24.0	22.53		22.39		22.43
			0.5	0	162	24.0	22.57		22.42		22.30
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.07		23.05		22.88
			0	81	1	24.5	23.04		23.08		22.85
			0	160	1	24.5	23.08		23.09		22.84
			1	0	81	23.5	22.10		22.27		21.90
			0	40	81	24.5	23.07		23.08		22.86
			1	81	81	23.5	22.06		22.19		21.88
			1	0	162	23.5	22.01		22.21		21.86
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.24		22.35		22.12
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.86		20.96		20.71
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.47		18.56		18.34
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.56		21.60		21.43

BW		50 MHz				ch/MHz							
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	648334/3725	652166/3782.5	656000/3840	659833/3897.5	663666/3955		
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]		
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.00	22.88	22.87	22.94	22.97		
			0	67	1	24.5	22.96	23.07	22.92	23.00	22.88		
			0	131	1	24.5	22.93	23.10	22.98	22.89	23.21		
			0.5	0	64	24.0	22.53	22.43	22.48	22.50	22.56		
			0	35	64	24.5	23.02	23.08	22.98	23.00	23.07		
			0.5	69	64	24.0	22.51	22.55	22.43	22.44	22.57		
			0.5	0	128	24.0	22.52	22.55	22.45	22.52	22.55		
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.02	22.90	22.98	22.97	23.11		
			0	67	1	24.5	23.01	23.09	22.93	23.00	23.06		
			0	131	1	24.5	23.00	23.10	22.95	22.99	23.12		
			1	0	64	23.5	22.01	21.92	22.50	22.04	22.02		
			0	35	64	24.5	23.00	22.87	22.98	23.00	23.03		
			1	69	64	23.5	22.12	21.95	22.45	21.98	22.06		
			1	0	128	23.5	22.12	21.96	22.48	22.00	22.03		
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.14	21.97	22.14	22.11	22.30		
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.91	20.61	20.88	20.76	20.86		
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.48	18.21	18.46	18.28	18.46		
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.60	21.39	21.51	21.44	21.53		

BW		40 MHz				ch/MHz							
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	648000/3720	652000/3780	656000/3840	660000/3900	664000/3960		
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]		
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.29	23.30	23.38	23.40	23.36		
			0	53	1	24.5	23.22	23.26	23.26	23.32	23.26		
			0	104	1	24.5	23.39	23.39	23.37	23.36	23.40		
			0.5	0	50	24.0	22.81	22.77	22.75	22.82	22.78		
			0	28	50	24.5	23.26	23.24	23.23	23.30	23.30		
			0.5	56	50	24.0	22.76	22.81	22.81	22.90	22.90		
			0.5	0	100	24.0	22.75	22.75	22.81	22.91	22.86		
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.25	23.33	23.38	23.36	23.30		
			0	53	1	24.5	23.22	23.21	23.35	23.39	23.31		
			0	104	1	24.5	23.34	23.36	23.40	23.35	23.41		
			1	0	50	23.5	22.26	22.22	22.39	22.31	22.36		
			0	28	50	24.5	23.23	23.24	23.30	23.29	23.29		
			1	56	50	23.5	22.28	22.30	22.32	22.36	22.32		
			1	0	100	23.5	22.23	22.20	22.32	22.41	22.32		
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.32	22.26	22.50	22.47	22.32		
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	21.11	21.32	21.32	21.26	21.24		
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.61	18.64	18.82	18.78	18.72		
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.84	21.88	22.03	22.01	21.94		

BW		30 MHz				ch/MHz							
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	647666/3715	651834/3778	656000/3840	660166/3902	664332/3965		
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]		
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.17	23.18	22.89	23.03	22.90		
			0	38	1	24.5	23.06	22.92	22.89	22.97	22.87		
			0	74	1	24.5	23.02	23.04	23.05	23.09	23.06		
			0.5	0	37	24.0	22.65	22.56	22.44	22.47	22.33		
			0	20	37	24.5	23.02	23.04	22.93	22.97	22.90		
			0.5	39	37	24.0	22.52	22.56	22.44	22.47	22.37		
			0.5	0	75	24.0	22.58	22.54	22.46	22.47	22.45		
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.07	23.12	22.91	23.02	22.98		
			0	38	1	24.5	23.00	23.06	22.92	22.88	22.87		
			0	74	1	24.5	23.12	22.92	22.98	22.95	22.97		
			1	0	37	23.5	22.06	22.08	21.95	21.89	21.88		
			0	20	37	24.5	23.01	23.04	22.87	22.90	22.91		
			1	39	37	23.5	22.09	22.07	21.96	21.92	21.90		
			1	0	75	23.5	22.04	22.05	21.92	21.91	21.93		
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.24	22.20	22.10	22.03	22.09		
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.56	20.54	20.43	20.40	20.47		
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.60	18.53	18.45	18.42	18.45		
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.52	21.60	21.42	21.42	21.42		

BW		20 MHz		ch/MHz							
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	647334/3710	651666/3775	656000/3840	660334/3905	664666/3970
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	24.5	23.13	23.10	23.33	23.30	23.33
			0	26	1	24.5	23.10	23.05	23.23	23.20	23.25
			0	49	1	24.5	23.17	23.15	23.28	23.24	23.24
			0.5	0	25	24.0	22.55	22.56	22.74	22.70	22.70
			0	13	25	24.5	23.06	23.01	23.16	23.15	23.15
			0.5	26	25	24.0	22.58	22.54	22.72	22.59	22.67
			0.5	0	50	24.0	22.59	22.53	22.75	22.66	22.63
DFTS-OFDM	QPSK	30	0	1	1	24.5	23.12	23.06	23.27	23.25	23.25
			0	26	1	24.5	23.02	22.99	23.19	23.16	23.15
			0	49	1	24.5	23.13	23.08	23.25	23.15	23.12
			1	0	25	23.5	22.09	22.13	22.17	22.21	22.15
			0	13	25	24.5	23.06	23.07	23.15	23.10	23.13
			1	26	25	23.5	22.08	22.19	22.19	22.08	22.16
			1	0	50	23.5	22.09	22.15	22.18	22.16	22.16
DFTS-OFDM	16QAM	30	1	1	1	23.5	22.17	22.24	22.26	22.19	22.26
DFTS-OFDM	64QAM	30	2.5	1	1	22.0	20.93	21.01	21.11	21.31	21.04
DFTS-OFDM	256QAM	30	4.5	1	1	20.0	18.44	18.47	18.62	18.54	18.51
CP-OFDM	QPSK	30	1.5	1	1	23.0	21.68	21.73	21.83	21.82	21.73

n 77 block C red FCC

BW 100 MHz							Setting value: 168 ch/MHz				
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	650000/ 3750 [dBm]	653000/ 3795 [dBm]	656000/ 3840 [dBm]	659000/ 3885 [dBm]	662000/ 3930 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0			16.54		
			0	137	1	17.0			16.65		
			0	271	1	17.0			16.55		
			0	0	135	17.0			16.45		
			0	69	135	17.0			16.44		
			0	138	135	17.0			16.54		
			0	0	270	17.0			16.45		
DFTS-OFDM	QPSK	30	0	1	1	17.0			16.61		
			0	137	1	17.0			16.59		
			0	271	1	17.0			16.53		
			0	0	135	17.0			16.46		
			0	69	135	17.0			16.47		
			0	138	135	17.0			16.44		
			0	0	270	17.0			16.42		
DFTS-OFDM	16QAM	30	0	1	1	17.0			16.39		
DFTS-OFDM	64QAM	30	0	1	1	17.0			16.59		
DFTS-OFDM	256QAM	30	0	1	1	17.0			16.60		
CP-OFDM	QPSK	30	0	1	1	17.0			16.53		

BW 90 MHz							Setting value: 168 ch/MHz				
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	649666/ 3745 [dBm]	652834/ 3792.5 [dBm]	656000/ 3840 [dBm]	659166/ 3887.5 [dBm]	662332/ 3935 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.72		16.61		16.63
			0	123	1	17.0	16.62		16.54		16.55
			0	243	1	17.0	16.57		16.56		16.44
			0	0	120	17.0	16.51		16.49		16.50
			0	63	120	17.0	16.54		16.47		16.52
			0	125	120	17.0	16.44		16.48		16.45
			0	0	243	17.0	16.52		16.46		16.50
DFTS-OFDM	QPSK	30	0	1	1	17.0	16.76		16.57		16.59
			0	123	1	17.0	16.61		16.59		16.66
			0	243	1	17.0	16.53		16.60		16.44
			0	0	120	17.0	16.51		16.49		16.45
			0	63	120	17.0	16.50		16.48		16.55
			0	125	120	17.0	16.48		16.43		16.49
			0	0	243	17.0	16.47		16.47		16.55
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.45		16.35		16.32
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.72		16.60		16.62
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.66		16.54		16.51
CP-OFDM	QPSK	30	0	1	1	17.0	16.70		16.58		16.57

BW		80 MHz		Setting value:		168		ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	649334/3740	652666/3790	656000/3840	659334/3890	662666/3940
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.75		16.60		16.66
			0	109	1	17.0	16.63		16.59		16.57
			0	215	1	17.0	16.48		16.52		16.50
			0	0	81	17.0	16.51		16.50		16.48
			0	55	81	17.0	16.56		16.49		16.50
			0	109	81	17.0	16.50		16.51		16.41
			0	0	216	17.0	16.52		16.44		16.45
			0	1	1	17.0	16.71		16.59		16.66
DFTS-OFDM	QPSK	30	0	109	1	17.0	16.63		16.58		16.68
			0	215	1	17.0	16.55		16.56		16.52
			0	0	81	17.0	16.55		16.45		16.44
			0	55	81	17.0	16.53		16.50		16.47
			0	109	81	17.0	16.48		16.44		16.48
			0	0	216	17.0	16.50		16.44		16.42
			0	1	1	17.0	16.50		16.31		16.37
			0	1	1	17.0	16.69		16.59		16.59
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.64		16.52		16.57
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.67		16.55		16.61

BW		60 MHz		Setting value:		168		ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	648666/3730	652334/3785	656000/3840	659666/3895	663332/3950
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.63		16.58		16.49
			0	81	1	17.0	16.66		16.57		16.58
			0	160	1	17.0	16.59		16.54		16.47
			0	0	81	17.0	16.54		16.46		16.53
			0	40	81	17.0	16.58		16.56		16.49
			0	81	81	17.0	16.59		16.53		16.41
			0	0	162	17.0	16.53		16.48		16.45
			0	1	1	17.0	16.55		16.58		16.48
DFTS-OFDM	QPSK	30	0	81	1	17.0	16.59		16.48		16.60
			0	160	1	17.0	16.61		16.62		16.50
			0	0	81	17.0	16.50		16.51		16.48
			0	40	81	17.0	16.53		16.55		16.47
			0	81	81	17.0	16.56		16.54		16.46
			0	0	162	17.0	16.53		16.52		16.44
			0	1	1	17.0	16.62		16.56		16.58
			0	1	1	17.0	16.56		16.54		16.55
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.53		16.52		16.48
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.56		16.56		16.52

BW		50 MHz		Setting value:		168		ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	648334/3725	652166/3782.5	656000/3840	659833/3897.5	663666/3955
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.65	16.52	16.52	16.40	16.61
			0	67	1	17.0	16.56	16.50	16.50	16.36	16.48
			0	131	1	17.0	16.57	16.61	16.57	16.41	16.58
			0	0	64	17.0	16.50	16.49	16.38	16.41	16.53
			0	35	64	17.0	16.60	16.53	16.47	16.39	16.48
			0	69	64	17.0	16.57	16.51	16.39	16.32	16.57
			0	0	128	17.0	16.56	16.41	16.41	16.36	16.51
			0	1	1	17.0	16.59	16.53	16.36	16.43	16.50
DFTS-OFDM	QPSK	30	0	67	1	17.0	16.55	16.43	16.43	16.47	16.51
			0	131	1	17.0	16.58	16.55	16.65	16.54	16.62
			0	0	64	17.0	16.51	16.49	16.42	16.38	16.49
			0	35	64	17.0	16.58	16.44	16.46	16.39	16.50
			0	69	64	17.0	16.52	16.38	16.44	16.30	16.53
			0	0	128	17.0	16.54	16.40	16.40	16.33	16.46
			0	1	1	17.0	16.61	16.56	16.43	16.43	16.52
			0	1	1	17.0	16.53	16.49	16.35	16.42	16.54
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.49	16.32	16.35	16.30	16.44
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.64	16.57	16.41	16.45	16.52

BW		40 MHz					Setting value: 165 ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	648000/3720	652000/3780	656000/3840	660000/3900	664000/3960
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.67	16.70	16.65	16.64	16.64
			0	53	1	17.0	16.57	16.53	16.54	16.52	16.54
			0	104	1	17.0	16.78	16.68	16.67	16.69	16.73
			0	0	50	17.0	16.55	16.52	16.50	16.47	16.52
			0	28	50	17.0	16.50	16.51	16.48	16.54	16.57
			0	56	50	17.0	16.54	16.54	16.52	16.56	16.55
DFTS-OFDM	QPSK	30	0	0	100	17.0	16.59	16.50	16.52	16.54	16.53
			0	1	1	17.0	16.75	16.64	16.66	16.68	16.61
			0	53	1	17.0	16.55	16.48	16.51	16.56	16.51
			0	104	1	17.0	16.72	16.61	16.63	16.65	16.68
			0	0	50	17.0	16.53	16.50	16.47	16.45	16.49
			0	28	50	17.0	16.49	16.47	16.45	16.49	16.57
DFTS-OFDM	16QAM	30	0	1	1	17.0	16.75	16.53	16.62	16.67	16.64
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.70	16.50	16.65	16.65	16.66
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.67	16.54	16.62	16.59	16.65
CP-OFDM	QPSK	30	0	1	1	17.0	16.70	16.58	16.60	16.67	16.67

BW		30 MHz					Setting value: 165 ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	647666/3715	651834/3778	656000/3840	660166/3902	664332/3965
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.68	16.47	16.43	16.42	16.47
			0	38	1	17.0	16.63	16.41	16.39	16.49	16.37
			0	74	1	17.0	16.59	16.57	16.53	16.49	16.58
			0	0	37	17.0	16.53	16.36	16.33	16.27	16.27
			0	20	37	17.0	16.48	16.40	16.37	16.35	16.34
			0	39	37	17.0	16.51	16.36	16.34	16.44	16.33
DFTS-OFDM	QPSK	30	0	0	75	17.0	16.49	16.38	16.29	16.34	16.41
			0	1	1	17.0	16.59	16.49	16.46	16.53	16.47
			0	38	1	17.0	16.53	16.48	16.43	16.52	16.43
			0	74	1	17.0	16.55	16.56	16.53	16.54	16.54
			0	0	37	17.0	16.47	16.39	16.30	16.33	16.28
			0	20	37	17.0	16.48	16.34	16.32	16.34	16.35
DFTS-OFDM	16QAM	30	0	39	37	17.0	16.52	16.44	16.38	16.40	16.38
			0	0	75	17.0	16.52	16.35	16.35	16.30	16.37
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.56	16.47	16.45	16.53	16.52
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.51	16.46	16.36	16.43	16.45
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.50	16.42	16.34	16.36	16.38
CP-OFDM	QPSK	30	0	1	1	17.0	16.58	16.46	16.36	16.42	16.42

BW		20 MHz					Setting value: 165 ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	647334/3710	651666/3775	656000/3840	660334/3905	664666/3970
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	17.0	16.51	16.44	16.40	16.29	16.40
			0	26	1	17.0	16.45	16.35	16.34	16.17	16.31
			0	49	1	17.0	16.46	16.43	16.38	16.35	16.49
			0	0	25	17.0	16.39	16.35	16.30	16.18	16.30
			0	13	25	17.0	16.26	16.27	16.25	16.13	16.29
			0	26	25	17.0	16.32	16.28	16.31	16.25	16.35
DFTS-OFDM	QPSK	30	0	0	50	17.0	16.40	16.27	16.31	16.21	16.29
			0	1	1	17.0	16.49	16.35	16.38	16.28	16.41
			0	26	1	17.0	16.40	16.34	16.37	16.31	16.31
			0	49	1	17.0	16.45	16.39	16.39	16.34	16.45
			0	0	25	17.0	16.38	16.30	16.28	16.15	16.32
			0	13	25	17.0	16.30	16.24	16.26	16.20	16.28
DFTS-OFDM	16QAM	30	0	26	25	17.0	16.44	16.27	16.25	16.22	16.39
			0	0	50	17.0	16.39	16.29	16.28	16.20	16.31
DFTS-OFDM	64QAM	30	0	1	1	17.0	16.41	16.35	16.36	16.32	16.47
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.43	16.34	16.34	16.25	16.45
DFTS-OFDM	256QAM	30	0	1	1	17.0	16.48	16.38	16.32	16.25	16.47
CP-OFDM	QPSK	30	0	1	1	17.0	16.42	16.40	16.31	16.23	16.48

Appendix SAR measurement result

WCDMA

WCDMA II Full

Test Position	Dist. (mm)	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)		Plot No.
				Tune-up Limit	Meas.	Meas.	Scaled	
Back 1g SAR	13	9262	1852.4	24.5	23.67			
		9400	1880.0	24.5	23.63	0.164	0.200	
		9538	1907.6	24.5	23.58			
Left 1g SAR	52	9262	1852.4	24.5	23.67			
		9400	1880.0	24.5	23.63	0.112	0.137	
		9538	1907.6	24.5	23.58			
Top 1g SAR	63	9262	1852.4	24.5	23.67			
		9400	1880.0	24.5	23.63	0.165	0.202	W2.F1
		9538	1907.6	24.5	23.58			
Front 1g SAR	0	9262	1852.4	24.5	23.67			
		9400	1880.0	24.5	23.63	0.074	0.090	
		9538	1907.6	24.5	23.58			

WCDMA II Red

Test Position	Dist. (mm)	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)		Plot No.
				Tune-up Limit	Meas.	Meas.	Scaled	
Back 1g SAR	0	9262	1852.4	18.0	16.96			
		9400	1880.0	18.0	16.94	0.223	0.285	W2.R1
		9538	1907.6	18.0	16.88			
Left 10g SAR	0	9262	1852.4	18.0	16.96			
		9400	1880.0	18.0	16.94	0.580	0.740	W2.R10
		9538	1907.6	18.0	16.88			
Top 10g SAR	0	9262	1852.4	18.0	16.96			
		9400	1880.0	18.0	16.94	0.289	0.369	
		9538	1907.6	18.0	16.88			
Top tilt 10g SAR	0	9262	1852.4	18.0	16.96			
		9400	1880.0	18.0	16.94	0.560	0.715	
		9538	1907.6	18.0	16.88			
Rear 10g SAR	0	9262	1852.4	18.0	16.96			
		9400	1880.0	18.0	16.94	0.416	0.531	
		9538	1907.6	18.0	16.88			

WCDMA IV Full

Test Position	Dist. (mm)	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)		Plot No.
				Tune-up Limit	Meas.	Meas.	Scaled	
Back 1g SAR	13	1312	1712.4	24.5	23.57			
		1413	1732.6	24.5	23.64	0.101	0.123	
		1513	1752.6	24.5	23.80			
Left 1g SAR	52	1312	1712.4	24.5	23.57			
		1413	1732.6	24.5	23.64	0.116	0.141	
		1513	1752.6	24.5	23.80			
Top 1g SAR	63	1312	1712.4	24.5	23.57			
		1413	1732.6	24.5	23.64	0.163	0.199	W4.F1
		1513	1752.6	24.5	23.80			
Front 1g SAR	0	1312	1712.4	24.5	23.57			
		1413	1732.6	24.5	23.64	0.031	0.038	
		1513	1752.6	24.5	23.80			

WCDMA IV Red

Test Position	Dist. (mm)	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)		Plot No.
				Tune-up Limit	Meas.	Meas.	Scaled	
Back 1g SAR	0	1312	1712.4	21.0	19.60			
		1413	1732.6	21.0	19.80	0.464	0.612	W4.R1
		1513	1752.6	21.0	19.94			
Left 10g SAR	0	1312	1712.4	21.0	19.60	1.360	1.877	
		1413	1732.6	21.0	19.80	1.470	1.938	W4.R10
		1513	1752.6	21.0	19.94	1.510	1.927	
Top 10g SAR	0	1312	1712.4	21.0	19.60			
		1413	1732.6	21.0	19.80	0.884	1.165	
		1513	1752.6	21.0	19.94			
Top tilt 10g SAR	0	1312	1712.4	21.0	19.60			
		1413	1732.6	21.0	19.80	1.450	1.911	
		1513	1752.6	21.0	19.94			
Rear 10g SAR	0	1312	1712.4	21.0	19.60			
		1413	1732.6	21.0	19.80	0.850	1.121	
		1513	1752.6	21.0	19.94			

WCDMA V Full

Test Position	Dist. (mm)	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)		Plot No.
				Tune-up Limit	Meas.	Meas.	Scaled	
Back 1g SAR	13	4132	826.4	24.5	23.61			
		4183	836.6	24.5	23.50	0.142	0.179	
		4233	846.6	24.5	23.48			
Left 1g SAR	52	4132	826.4	24.5	23.61			
		4183	836.6	24.5	23.50	0.014	0.018	
		4233	846.6	24.5	23.48			
Top 1g SAR	63	4132	826.4	24.5	23.61			
		4183	836.6	24.5	23.50	0.022	0.028	
		4233	846.6	24.5	23.48			
Front 1g SAR	0	4132	826.4	24.5	23.61			
		4183	836.6	24.5	23.50	0.428	0.539	W5.F1
		4233	846.6	24.5	23.48			

WCDMA V Red

Test Position	Dist. (mm)	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)		Plot No.
				Tune-up Limit	Meas.	Meas.	Scaled	
Back 1g SAR	0	4132	826.4	23.5	22.41			
		4183	836.6	23.5	22.31	0.498	0.655	W5.R1
		4233	846.6	23.5	22.28			
Left 10g SAR	0	4132	826.4	23.5	22.41			
		4183	836.6	23.5	22.31	0.415	0.546	
		4233	846.6	23.5	22.28			
Top 10g SAR	0	4132	826.4	23.5	22.41			
		4183	836.6	23.5	22.31	0.390	0.513	
		4233	846.6	23.5	22.28			
Top tilt 10g SAR	0	4132	826.4	23.5	22.41			
		4183	836.6	23.5	22.31	0.705	0.927	W5.R10
		4233	846.6	23.5	22.28			
Rear 10g SAR	0	4132	826.4	23.5	22.41			
		4183	836.6	23.5	22.31	0.553	0.727	
		4233	846.6	23.5	22.28			

LTE
B2 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	18700	1860	1	99	24.0	22.86	0.118	0.153	
			18900	1880	1	0	24.0	22.69			
			19100	1900	1	0	24.0	22.73			
			18700	1860	50	50	23.0	21.85	0.103	0.134	
			18900	1880	50	50	23.0	21.84			
			19100	1900	50	24	23.0	21.83			
			18700	1860	100	0	23.0	21.84			
Left 1g SAR	52	QPSK	18700	1860	1	99	24.0	22.86	0.019	0.025	
			18900	1880	1	0	24.0	22.69			
			19100	1900	1	0	24.0	22.73			
			18700	1860	50	50	23.0	21.85	0.019	0.025	
			18900	1880	50	50	23.0	21.84			
			19100	1900	50	24	23.0	21.83			
			18700	1860	100	0	23.0	21.84			
Top 1g SAR	63	QPSK	18700	1860	1	99	24.0	22.86	0.122	0.159	L2.F1
			18900	1880	1	0	24.0	22.69			
			19100	1900	1	0	24.0	22.73			
			18700	1860	50	50	23.0	21.85	0.103	0.134	
			18900	1880	50	50	23.0	21.84			
			19100	1900	50	24	23.0	21.83			
			18700	1860	100	0	23.0	21.84			
Front 1g SAR	0	QPSK	18700	1860	1	99	24.0	22.86	0.054	0.070	
			18900	1880	1	0	24.0	22.69			
			19100	1900	1	0	24.0	22.73			
			18700	1860	50	50	23.0	21.85	0.038	0.050	
			18900	1880	50	50	23.0	21.84			
			19100	1900	50	24	23.0	21.83			
			18700	1860	100	0	23.0	21.84			

B2 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
Back 1g SAR	0	QPSK	18700	1860	1	99	17.5	16.39	0.181	0.234	L2.R1
			18900	1880	1	0	17.5	16.29			
			19100	1900	1	99	17.5	16.19			
			18700	1860	50	24	17.5	16.49	0.179	0.226	
			18900	1880	50	50	17.5	16.45			
			19100	1900	50	50	17.5	16.40			
			18700	1860	100	0	17.5	16.38			
Left 10g SAR	0	QPSK	18700	1860	1	99	17.5	16.39	0.547	0.706	
			18900	1880	1	0	17.5	16.29			
			19100	1900	1	99	17.5	16.19			
			18700	1860	50	24	17.5	16.49	0.571	0.721	L2.R10
			18900	1880	50	50	17.5	16.45			
			19100	1900	50	50	17.5	16.40			
			18700	1860	100	0	17.5	16.38			
Top 10g SAR	0	QPSK	18700	1860	1	99	17.5	16.39	0.202	0.261	
			18900	1880	1	0	17.5	16.29			
			19100	1900	1	99	17.5	16.19			
			18700	1860	50	24	17.5	16.49	0.228	0.288	
			18900	1880	50	50	17.5	16.45			
			19100	1900	50	50	17.5	16.40			
			18700	1860	100	0	17.5	16.38			
Top tilt 10g SAR	0	QPSK	18700	1860	1	99	17.5	16.39	0.451	0.582	
			18900	1880	1	0	17.5	16.29			
			19100	1900	1	99	17.5	16.19			
			18700	1860	50	24	17.5	16.49	0.479	0.604	
			18900	1880	50	50	17.5	16.45			
			19100	1900	50	50	17.5	16.40			
			18700	1860	100	0	17.5	16.38			
Back 10g SAR	0	QPSK	18700	1860	1	99	17.5	16.39	0.396	0.511	
			18900	1880	1	0	17.5	16.29			
			19100	1900	1	99	17.5	16.19			
			18700	1860	50	24	17.5	16.49	0.410	0.517	
			18900	1880	50	50	17.5	16.45			
			19100	1900	50	50	17.5	16.40			
			18700	1860	100	0	17.5	16.38			

B4 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	20175	1732.5	1	0	24.0	22.87	0.099	0.128	
			20175	1732.5	50	0	23.0	21.88	0.076	0.098	
			20175	1732.5	100	0	23.0	21.83			
Left 1g SAR	52	QPSK	20175	1732.5	1	0	24.0	22.87	0.120	0.156	
			20175	1732.5	50	0	23.0	21.88	0.090	0.116	
			20175	1732.5	100	0	23.0	21.83			
Top 1g SAR	63	QPSK	20175	1732.5	1	0	24.0	22.87	0.134	0.174	L4.F1
			20175	1732.5	50	0	23.0	21.88	0.103	0.133	
			20175	1732.5	100	0	23.0	21.83			
Front 1g SAR	0	QPSK	20175	1732.5	1	0	24.0	22.87	0.026	0.034	
			20175	1732.5	50	0	23.0	21.88	0.021	0.027	
			20175	1732.5	100	0	23.0	21.83			

B4 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	20175	1732.5	1	0	18.0	16.80	0.444	0.585	L4.R1
			20175	1732.5	50	24	18.0	16.90	0.334	0.430	
			20175	1732.5	100	0	18.0	16.68			
Left 10g SAR	0	QPSK	20175	1732.5	1	0	18.0	16.80	0.680	0.896	
			20175	1732.5	50	24	18.0	16.90	0.736	0.948	
			20175	1732.5	100	0	18.0	16.68			
Top 10g SAR	0	QPSK	20175	1732.5	1	0	18.0	16.80	0.493	0.650	
			20175	1732.5	50	24	18.0	16.90	0.495	0.638	
			20175	1732.5	100	0	18.0	16.68			
Top tilt 10g SAR	0	QPSK	20175	1732.5	1	0	18.0	16.80	0.744	0.981	L4.R10
			20175	1732.5	50	24	18.0	16.90	0.741	0.955	
			20175	1732.5	100	0	18.0	16.68			
Rear 10g SAR	0	QPSK	20175	1732.5	1	0	18.0	16.80	0.421	0.555	
			20175	1732.5	50	24	18.0	16.90	0.457	0.589	
			20175	1732.5	100	0	18.0	16.68			

B5 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	20525	836.5	1	0	24.0	22.86	0.128	0.166	
			20525	836.5	25	0	23.0	21.92	0.100	0.128	
			20525	836.5	50	0	23.0	21.88			
Left 1g SAR	52	QPSK	20525	836.5	1	0	24.0	22.86	0.012	0.016	
			20525	836.5	25	0	23.0	21.92	0.012	0.015	
			20525	836.5	50	0	23.0	21.88			
Top 1g SAR	63	QPSK	20525	836.5	1	0	24.0	22.86	0.014	0.018	
			20525	836.5	25	0	23.0	21.92	0.012	0.015	
			20525	836.5	50	0	23.0	21.88			
Front 1g SAR	0	QPSK	20525	836.5	1	0	24.0	22.86	0.323	0.420	L5.F1
			20525	836.5	25	0	23.0	21.92	0.274	0.351	
			20525	836.5	50	0	23.0	21.88			

B5 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	20525	836.5	1	0	22.0	20.63	0.406	0.557	L5.R1
			20525	836.5	25	12	22.0	20.66	0.332	0.452	
			20525	836.5	50	0	22.0	20.52			
Left 10g SAR	0	QPSK	20525	836.5	1	0	22.0	20.63	0.254	0.348	
			20525	836.5	25	12	22.0	20.66	0.268	0.365	
			20525	836.5	50	0	22.0	20.52			
Top 10g SAR	0	QPSK	20525	836.5	1	0	22.0	20.63	0.283	0.388	
			20525	836.5	25	12	22.0	20.66	0.292	0.398	
			20525	836.5	50	0	22.0	20.52			
Top tilt 10g SAR	0	QPSK	20525	836.5	1	0	22.0	20.63	0.357	0.489	
			20525	836.5	25	12	22.0	20.66	0.374	0.509	L5.R10
			20525	836.5	50	0	22.0	20.52			
Rear 10g SAR	0	QPSK	20525	836.5	1	0	22.0	20.63	0.326	0.447	
			20525	836.5	25	12	22.0	20.66	0.356	0.485	
			20525	836.5	50	0	22.0	20.52			

B7 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	20850	2510	1	99	24.8	23.24	0.274	0.392	L7.F1
			21100	2535	1	99	24.8	22.95			
			21350	2560	1	0	24.8	23.07			
			20850	2510	50	50	23.8	22.23			
			21100	2535	50	50	23.8	21.99			
			21350	2560	50	24	23.8	22.24	0.242	0.347	
			21350	2560	100	0	23.8	22.16			
Left 1g SAR	52	QPSK	20850	2510	1	99	24.8	23.24	0.095	0.136	
			21100	2535	1	99	24.8	22.95			
			21350	2560	1	0	24.8	23.07			
			20850	2510	50	50	23.8	22.23			
			21100	2535	50	50	23.8	21.99			
			21350	2560	50	24	23.8	22.24	0.088	0.126	
			21350	2560	100	0	23.8	22.16			
Top 1g SAR	63	QPSK	20850	2510	1	99	24.8	23.24	0.095	0.136	
			21100	2535	1	99	24.8	22.95			
			21350	2560	1	0	24.8	23.07			
			20850	2510	50	50	23.8	22.23			
			21100	2535	50	50	23.8	21.99			
			21350	2560	50	24	23.8	22.24	0.080	0.115	
			21350	2560	100	0	23.8	22.16			
Front 1g SAR	0	QPSK	20850	2510	1	99	24.8	23.24	0.048	0.069	
			21100	2535	1	99	24.8	22.95			
			21350	2560	1	0	24.8	23.07			
			20850	2510	50	50	23.8	22.23			
			21100	2535	50	50	23.8	21.99			
			21350	2560	50	24	23.8	22.24	0.051	0.073	
			21350	2560	100	0	23.8	22.16			

B7 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
Back 1g SAR	0	QPSK	20850	2510	1	99	17.5	16.38	0.254	0.329	
			21100	2535	1	0	17.5	16.14			
			21350	2560	1	99	17.5	16.37			
			20850	2510	50	50	17.5	16.50	0.271	0.341	L7.R1
			21100	2535	50	50	17.5	16.19			
			21350	2560	50	24	17.5	16.49			
			20850	2510	100	0	17.5	16.37			
Left 10g SAR	0	QPSK	20850	2510	1	99	17.5	16.38	0.256	0.331	
			21100	2535	1	0	17.5	16.14			
			21350	2560	1	99	17.5	16.37			
			20850	2510	50	50	17.5	16.50	0.258	0.325	
			21100	2535	50	50	17.5	16.19			
			21350	2560	50	24	17.5	16.49			
			20850	2510	100	0	17.5	16.37			
Top 10g SAR	0	QPSK	20850	2510	1	99	17.5	16.38	0.225	0.291	
			21100	2535	1	0	17.5	16.14			
			21350	2560	1	99	17.5	16.37			
			20850	2510	50	50	17.5	16.50	0.230	0.290	
			21100	2535	50	50	17.5	16.19			
			21350	2560	50	24	17.5	16.49			
			20850	2510	100	0	17.5	16.37			
Top tilt 10g SAR	0	QPSK	20850	2510	1	99	17.5	16.38	0.268	0.347	L7.R10
			21100	2535	1	0	17.5	16.14			
			21350	2560	1	99	17.5	16.37			
			20850	2510	50	50	17.5	16.50	0.273	0.344	
			21100	2535	50	50	17.5	16.19			
			21350	2560	50	24	17.5	16.49			
			20850	2510	100	0	17.5	16.37			
Rear 10g SAR	0	QPSK	20850	2510	1	99	17.5	16.38	0.241	0.312	
			21100	2535	1	0	17.5	16.14			
			21350	2560	1	99	17.5	16.37			
			20850	2510	50	50	17.5	16.50	0.241	0.303	
			21100	2535	50	50	17.5	16.19			
			21350	2560	50	24	17.5	16.49			
			20850	2510	100	0	17.5	16.37			

B12 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	23095	707.5	1	0	24.0	23.10	0.058	0.071	
			23095	707.5	25	0	23.0	22.27	0.048	0.057	
			23095	707.5	50	0	23.0	22.22			
Left 1g SAR	52	QPSK	23095	707.5	1	0	24.0	23.10	0.008	0.010	
			23095	707.5	25	0	23.0	22.27	0.006	0.007	
			23095	707.5	50	0	23.0	22.22			
Top 1g SAR	63	QPSK	23095	707.5	1	0	24.0	23.10	0.008	0.010	
			23095	707.5	25	0	23.0	22.27	0.007	0.008	
			23095	707.5	50	0	23.0	22.22			
Front 1g SAR	0	QPSK	23095	707.5	1	0	24.0	23.10	0.320	0.394	L12.F1
			23095	707.5	25	0	23.0	22.27	0.281	0.332	
			23095	707.5	50	0	23.0	22.22			

B12 Red tune up is same as full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	23095	707.5	1	0	24.0	23.10	0.155	0.191	L12.R1
			23095	707.5	25	0	23.0	22.27	0.133	0.157	
			23095	707.5	50	0	23.0	22.22			
Left 10g SAR	0	QPSK	23095	707.5	1	0	24.0	23.10	0.286	0.352	
			23095	707.5	25	0	23.0	22.27	0.230	0.272	
			23095	707.5	50	0	23.0	22.22			
Top 10g SAR	0	QPSK	23095	707.5	1	0	24.0	23.10	0.596	0.733	
			23095	707.5	25	0	23.0	22.27	0.489	0.579	
			23095	707.5	50	0	23.0	22.22			
Top tilt 10g SAR	0	QPSK	23095	707.5	1	0	24.0	23.10	0.634	0.780	L12.R10
			23095	707.5	25	0	23.0	22.27	0.507	0.600	
			23095	707.5	50	0	23.0	22.22			
Rear 10g SAR	0	QPSK	23095	707.5	1	0	24.0	23.10	0.324	0.399	
			23095	707.5	25	0	23.0	22.27	0.262	0.310	
			23095	707.5	50	0	23.0	22.22			

B13 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	23230	782	1	49	24.0	22.70	0.117	0.158	
			23230	782	25	25	23.0	21.73	0.096	0.129	
			23230	782	50	0	23.0	21.70			
Left 1g SAR	52	QPSK	23230	782	1	49	24.0	22.70	0.019	0.026	
			23230	782	25	25	23.0	21.73	0.016	0.021	
			23230	782	50	0	23.0	21.70			
Top 1g SAR	63	QPSK	23230	782	1	49	24.0	22.70	0.012	0.016	
			23230	782	25	25	23.0	21.73	0.009	0.012	
			23230	782	50	0	23.0	21.70			
Front 1g SAR	0	QPSK	23230	782	1	49	24.0	22.70	0.307	0.414	L13.F1
			23230	782	25	25	23.0	21.73	0.262	0.351	
			23230	782	50	0	23.0	21.70			

B13 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	23230	782	1	49	23.5	22.03	0.331	0.464	L13.R1
			23230	782	25	25	23.0	21.48	0.265	0.376	
			23230	782	50	0	23.0	21.44			
Left 10g SAR	0	QPSK	23230	782	1	49	23.5	22.03	0.355	0.498	
			23230	782	25	25	23.0	21.48	0.327	0.464	
			23230	782	50	0	23.0	21.44			
Top 10g SAR	0	QPSK	23230	782	1	49	23.5	22.03	0.416	0.584	
			23230	782	25	25	23.0	21.48	0.380	0.539	
			23230	782	50	0	23.0	21.44			
Top tilt 10g SAR	0	QPSK	23230	782	1	49	23.5	22.03	0.439	0.616	L13.R10
			23230	782	25	25	23.0	21.48	0.416	0.590	
			23230	782	50	0	23.0	21.44			
Rear 10g SAR	0	QPSK	23230	782	1	49	23.5	22.03	0.402	0.564	
			23230	782	25	25	23.0	21.48	0.358	0.508	
			23230	782	50	0	23.0	21.44			

B14 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	23330	793	1	49	24.0	22.79	0.123	0.163	
			23330	793	25	25	23.0	21.84	0.093	0.121	
			23330	793	50	0	23.0	21.75			
Left 1g SAR	52	QPSK	23330	793	1	49	24.0	22.79	0.017	0.022	
			23330	793	25	25	23.0	21.84	0.015	0.020	
			23330	793	50	0	23.0	21.75			
Top 1g SAR	63	QPSK	23330	793	1	49	24.0	22.79	0.016	0.021	
			23330	793	25	25	23.0	21.84	0.015	0.020	
			23330	793	50	0	23.0	21.75			
Front 1g SAR	0	QPSK	23330	793	1	49	24.0	22.79	0.319	0.421	L14.F1
			23330	793	25	25	23.0	21.84	0.233	0.304	
			23330	793	50	0	23.0	21.75			

B14 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	23330	793	1	49	23.3	21.77	0.370	0.526	L14.R1
			23330	793	25	25	22.6	21.59	0.291	0.367	
			23330	793	50	0	22.6	21.53			
Left 10g SAR	0	QPSK	23330	793	1	49	23.3	21.77	0.333	0.474	
			23330	793	25	25	22.6	21.59	0.322	0.406	
			23330	793	50	0	22.6	21.53			
Top 10g SAR	0	QPSK	23330	793	1	49	23.3	21.77	0.392	0.558	
			23330	793	25	25	22.6	21.59	0.380	0.479	
			23330	793	50	0	22.6	21.53			
Top tilt 10g SAR	0	QPSK	23330	793	1	49	23.3	21.77	0.457	0.650	L14.R10
			23330	793	25	25	22.6	21.59	0.326	0.411	
			23330	793	50	0	22.6	21.53			
Rear 10g SAR	0	QPSK	23330	793	1	49	23.3	21.77	0.379	0.539	
			23330	793	25	25	22.6	21.59	0.374	0.472	
			23330	793	50	0	22.6	21.53			

B17 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	23790	710	1	0	24.0	23.13	0.059	0.072	
			23790	710	25	12	23.0	22.29	0.047	0.055	
			23790	710	50	0	23.0	22.20			
Left 1g SAR	52	QPSK	23790	710	1	0	24.0	23.13	0.007	0.009	
			23790	710	25	12	23.0	22.29	0.006	0.007	
			23790	710	50	0	23.0	22.20			
Top 1g SAR	63	QPSK	23790	710	1	0	24.0	23.13	0.009	0.011	
			23790	710	25	12	23.0	22.29	0.007	0.008	
			23790	710	50	0	23.0	22.20			
Front 1g SAR	0	QPSK	23790	710	1	0	24.0	23.13	0.335	0.409	L17.F1
			23790	710	25	12	23.0	22.29	0.287	0.338	
			23790	710	50	0	23.0	22.20			

B17 Red tune up is same as full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	23790	710	1	0	24.0	23.13	0.164	0.200	L17.R1
			23790	710	25	12	23.0	22.29	0.141	0.166	
			23790	710	50	0	23.0	22.20			
Left 10g SAR	0	QPSK	23790	710	1	0	24.0	23.13	0.272	0.332	
			23790	710	25	12	23.0	22.29	0.265	0.312	
			23790	710	50	0	23.0	22.20			
Top 10g SAR	0	QPSK	23790	710	1	0	24.0	23.13	0.606	0.740	
			23790	710	25	12	23.0	22.29	0.486	0.572	
			23790	710	50	0	23.0	22.20			
Top tilt 10g SAR	0	QPSK	23790	710	1	0	24.0	23.13	0.636	0.777	L17.R10
			23790	710	25	12	23.0	22.29	0.502	0.591	
			23790	710	50	0	23.0	22.20			
Rear 10g SAR	0	QPSK	23790	710	1	0	24.0	23.13	0.319	0.390	
			23790	710	25	12	23.0	22.29	0.262	0.309	
			23790	710	50	0	23.0	22.20			

B25 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	26140	1860	1	99	24.0	22.87			
			26365	1882.5	1	0	24.0	22.77			
			26590	1905	1	0	24.0	22.89	0.111	0.143	
			26140	1860	50	24	23.0	21.92			
			26365	1882.5	50	50	23.0	21.87			
			26590	1905	50	24	23.0	21.93	0.096	0.123	
Left 1g SAR	52	QPSK	26140	1860	1	99	24.0	22.87			
			26365	1882.5	1	0	24.0	22.77			
			26590	1905	1	0	24.0	22.89	0.123	0.159	
			26140	1860	50	24	23.0	21.92			
			26365	1882.5	50	50	23.0	21.87			
			26590	1905	50	24	23.0	21.93	0.097	0.124	
Top 1g SAR	63	QPSK	26140	1860	1	99	24.0	22.87			
			26365	1882.5	1	0	24.0	22.77			
			26590	1905	1	0	24.0	22.89	0.145	0.187	L17.F1
			26140	1860	50	24	23.0	21.92			
			26365	1882.5	50	50	23.0	21.87			
			26590	1905	50	24	23.0	21.93	0.115	0.147	
Front 1g SAR	0	QPSK	26140	1860	1	99	24.0	22.87			
			26365	1882.5	1	0	24.0	22.77			
			26590	1905	1	0	24.0	22.89	0.055	0.071	
			26140	1860	50	24	23.0	21.92			
			26365	1882.5	50	50	23.0	21.87			
			26590	1905	50	24	23.0	21.93	0.055	0.070	
			26140	1860	100	0	23.0	21.91			

B25 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	26140	1860	1	99	16.0	15.15	0.128	0.156	
			26365	1882.5	1	0	16.0	14.74			
			26590	1905	1	0	16.0	14.80			
			26140	1860	50	24	16.0	15.10	0.128	0.157	L25.R1
			26365	1882.5	50	24	16.0	14.92			
			26590	1905	50	50	16.0	14.88			
			26140	1860	100	0	16.0	15.05			
Left 10g SAR	0	QPSK	26140	1860	1	99	16.0	15.15	0.394	0.479	
			26365	1882.5	1	0	16.0	14.74			
			26590	1905	1	0	16.0	14.80			
			26140	1860	50	24	16.0	15.10	0.412	0.507	L25.R10
			26365	1882.5	50	24	16.0	14.92			
			26590	1905	50	50	16.0	14.88			
			26140	1860	100	0	16.0	15.05			
Top 10g SAR	0	QPSK	26140	1860	1	99	16.0	15.15	0.146	0.178	
			26365	1882.5	1	0	16.0	14.74			
			26590	1905	1	0	16.0	14.80			
			26140	1860	50	24	16.0	15.10	0.163	0.201	
			26365	1882.5	50	24	16.0	14.92			
			26590	1905	50	50	16.0	14.88			
			26140	1860	100	0	16.0	15.05			
Top tilt 10g SAR	0	QPSK	26140	1860	1	99	16.0	15.15	0.351	0.427	
			26365	1882.5	1	0	16.0	14.74			
			26590	1905	1	0	16.0	14.80			
			26140	1860	50	24	16.0	15.10	0.344	0.423	
			26365	1882.5	50	24	16.0	14.92			
			26590	1905	50	50	16.0	14.88			
			26140	1860	100	0	16.0	15.05			
Back 10g SAR	0	QPSK	26140	1860	1	99	16.0	15.15	0.289	0.351	
			26365	1882.5	1	0	16.0	14.74			
			26590	1905	1	0	16.0	14.80			
			26140	1860	50	24	16.0	15.10	0.296	0.364	
			26365	1882.5	50	24	16.0	14.92			
			26590	1905	50	50	16.0	14.88			
			26140	1860	100	0	16.0	15.05			

B26 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	26865	831.5	1	0	24.0	23.03	0.137	0.171	
			26865	831.5	36	19	23.0	22.12	0.105	0.129	
			26865	831.5	75	0	23.0	22.08			
Left 1g SAR	52	QPSK	26865	831.5	1	0	24.0	23.03	0.014	0.018	
			26865	831.5	36	19	23.0	22.12	0.013	0.016	
			26865	831.5	75	0	23.0	22.08			
Top 1g SAR	63	QPSK	26865	831.5	1	0	24.0	23.03	0.016	0.020	
			26865	831.5	36	19	23.0	22.12	0.012	0.015	
			26865	831.5	75	0	23.0	22.08			
Front 1g SAR	0	QPSK	26865	831.5	1	0	24.0	23.03	0.327	0.409	L26.F1
			26865	831.5	36	19	23.0	22.12	0.271	0.332	
			26865	831.5	75	0	23.0	22.08			

B26 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	26865	831.5	1	0	22.0	20.83	0.408	0.534	L26.R1
			26865	831.5	36	0	22.0	20.73	0.334	0.447	
			26865	831.5	75	0	22.0	20.69			
Left 10g SAR	0	QPSK	26865	831.5	1	0	22.0	20.83	0.262	0.343	
			26865	831.5	36	0	22.0	20.73	0.262	0.351	
			26865	831.5	75	0	22.0	20.69			
Top 10g SAR	0	QPSK	26865	831.5	1	0	22.0	20.83	0.290	0.380	
			26865	831.5	36	0	22.0	20.73	0.294	0.394	
			26865	831.5	75	0	22.0	20.69			
Top tilt 10g SAR	0	QPSK	26865	831.5	1	0	22.0	20.83	0.358	0.469	
			26865	831.5	36	0	22.0	20.73	0.369	0.494	L26.R10
			26865	831.5	75	0	22.0	20.69			
Rear 10g SAR	0	QPSK	26865	831.5	1	0	22.0	20.83	0.348	0.456	
			26865	831.5	36	0	22.0	20.73	0.343	0.460	
			26865	831.5	75	0	22.0	20.69			

B38 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	38000	2595	1	0	24.0	23.19	0.154	0.186	L38.F1
			38000	2595	50	50	23.0	22.19	0.128	0.154	
			38000	2595	100	0	23.0	22.12			
Left 1g SAR	52	QPSK	38000	2595	1	0	24.0	23.19	0.049	0.059	
			38000	2595	50	50	23.0	22.19	0.039	0.047	
			38000	2595	100	0	23.0	22.12			
Top 1g SAR	63	QPSK	38000	2595	1	0	24.0	23.19	0.064	0.077	
			38000	2595	50	50	23.0	22.19	0.040	0.048	
			38000	2595	100	0	23.0	22.12			
Front 1g SAR	0	QPSK	38000	2595	1	0	24.0	23.19	0.035	0.042	
			38000	2595	50	50	23.0	22.19	0.033	0.040	
			38000	2595	100	0	23.0	22.12			

B38 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	38000	2595	1	0	17.5	16.48	0.063	0.080	
			38000	2595	50	50	17.5	16.49	0.066	0.083	L38.R1
			38000	2595	100	0	17.5	16.40			
Left 10g SAR	0	QPSK	38000	2595	1	0	17.5	16.48	0.111	0.140	
			38000	2595	50	50	17.5	16.49	0.107	0.135	
			38000	2595	100	0	17.5	16.40			
Top 10g SAR	0	QPSK	38000	2595	1	0	17.5	16.48	0.102	0.129	
			38000	2595	50	50	17.5	16.49	0.100	0.126	
			38000	2595	100	0	17.5	16.40			
Top tilt 10g SAR	0	QPSK	38000	2595	1	0	17.5	16.48	0.168	0.212	
			38000	2595	50	50	17.5	16.49	0.173	0.218	L38.R10
			38000	2595	100	0	17.5	16.40			
Rear 10g SAR	0	QPSK	38000	2595	1	0	17.5	16.48	0.157	0.199	
			38000	2595	50	50	17.5	16.49	0.164	0.207	
			38000	2595	100	0	17.5	16.40			

B41 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	39750	2506	1	0	24.8	23.03			
			40185	2549.5	1	99	24.8	22.98			
			40620	2593	1	0	24.8	23.19			
			41055	2636.5	1	0	24.8	23.18			
			41490	2680	1	0	24.8	23.20	0.144	0.208	L41.F1
			39750	2506	50	0	23.8	21.98			
			40185	2549.5	50	24	23.8	22.12			
			40620	2593	50	24	23.8	22.22			
			41055	2636.5	50	0	23.8	22.15			
			41490	2680	50	0	23.8	22.23	0.111	0.159	
			41490	2680	100	0	23.8	22.21			
Left 1g SAR	52	QPSK	39750	2506	1	0	24.8	23.03			
			40185	2549.5	1	99	24.8	22.98			
			40620	2593	1	0	24.8	23.19			
			41055	2636.5	1	0	24.8	23.18			
			41490	2680	1	0	24.8	23.20	0.038	0.055	
			39750	2506	50	0	23.8	21.98			
			40185	2549.5	50	24	23.8	22.12			
			40620	2593	50	24	23.8	22.22			
			41055	2636.5	50	0	23.8	22.15			
			41490	2680	50	0	23.8	22.23	0.032	0.046	
			41490	2680	100	0	23.8	22.21			
Top 1g SAR	63	QPSK	39750	2506	1	0	24.8	23.03			
			40185	2549.5	1	99	24.8	22.98			
			40620	2593	1	0	24.8	23.19			
			41055	2636.5	1	0	24.8	23.18			
			41490	2680	1	0	24.8	23.20	0.038	0.055	
			39750	2506	50	0	23.8	21.98			
			40185	2549.5	50	24	23.8	22.12			
			40620	2593	50	24	23.8	22.22			
			41055	2636.5	50	0	23.8	22.15			
			41490	2680	50	0	23.8	22.23	0.028	0.040	
			41490	2680	100	0	23.8	22.21			
Front 1g SAR	0	QPSK	39750	2506	1	0	24.8	23.03			
			40185	2549.5	1	99	24.8	22.98			
			40620	2593	1	0	24.8	23.19			
			41055	2636.5	1	0	24.8	23.18			
			41490	2680	1	0	24.8	23.20	0.052	0.075	
			39750	2506	50	0	23.8	21.98			
			40185	2549.5	50	24	23.8	22.12			
			40620	2593	50	24	23.8	22.22			
			41055	2636.5	50	0	23.8	22.15			
			41490	2680	50	0	23.8	22.23	0.052	0.075	
			41490	2680	100	0	23.8	22.21			

B41 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	39750	2506	1	0	16.7	15.23			
			40185	2549.5	1	0	16.7	15.11			
			40620	2593	1	0	16.7	15.28			
			41055	2636.5	1	99	16.7	15.24			
			41490	2680	1	0	16.7	15.37	0.047	0.064	L41.R1
			39750	2506	50	24	16.7	15.20			
			40185	2549.5	50	24	16.7	15.12			
			40620	2593	50	24	16.7	15.25			
			41055	2636.5	50	24	16.7	15.25			
			41490	2680	50	0	16.7	15.29	0.046	0.064	
Left 10g SAR	0	QPSK	40620	2593	100	0	16.7	15.24			
			39750	2506	1	0	16.7	15.23			
			40185	2549.5	1	0	16.7	15.11			
			40620	2593	1	0	16.7	15.28			
			41055	2636.5	1	99	16.7	15.24			
			41490	2680	1	0	16.7	15.37	0.078	0.106	
			39750	2506	50	24	16.7	15.20			
			40185	2549.5	50	24	16.7	15.12			
			40620	2593	50	24	16.7	15.25			
			41055	2636.5	50	24	16.7	15.25			
Top 10g SAR	0	QPSK	41490	2680	50	0	16.7	15.29	0.079	0.109	
			40620	2593	100	0	16.7	15.24			
			39750	2506	1	0	16.7	15.23			
			40185	2549.5	1	0	16.7	15.11			
			40620	2593	1	0	16.7	15.28			
			41055	2636.5	1	99	16.7	15.24			
			41490	2680	1	0	16.7	15.37	0.059	0.080	
			39750	2506	50	24	16.7	15.20			
			40185	2549.5	50	24	16.7	15.12			
			40620	2593	50	24	16.7	15.25			
Top tilt 10g SAR	0	QPSK	41055	2636.5	50	24	16.7	15.25			
			41490	2680	50	0	16.7	15.29	0.063	0.087	
			40620	2593	100	0	16.7	15.24			
			39750	2506	1	0	16.7	15.23			
			40185	2549.5	1	0	16.7	15.11			
			40620	2593	1	0	16.7	15.28			
			41055	2636.5	1	99	16.7	15.24			
			41490	2680	1	0	16.7	15.37	0.153	0.208	L41.R10
			39750	2506	50	24	16.7	15.20			
			40185	2549.5	50	24	16.7	15.12			
Rear 10g SAR	0	QPSK	40620	2593	50	24	16.7	15.25			
			41055	2636.5	50	24	16.7	15.25			
			41490	2680	50	0	16.7	15.29	0.147	0.203	
			40620	2593	100	0	16.7	15.24			
			39750	2506	1	0	16.7	15.23			
			40185	2549.5	1	0	16.7	15.11			
			40620	2593	1	0	16.7	15.28			
			41055	2636.5	1	99	16.7	15.24			
			41490	2680	1	0	16.7	15.37	0.128	0.174	
			39750	2506	50	24	16.7	15.20			
			40185	2549.5	50	24	16.7	15.12			
			40620	2593	50	24	16.7	15.25			
			41055	2636.5	50	24	16.7	15.25			
			41490	2680	50	0	16.7	15.29	0.126	0.174	
			40620	2593	100	0	16.7	15.24			

B48 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.000	0.000	
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.002	0.003	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Left 1g SAR	52	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.001	0.001	
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.000	0.000	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Top 1g SAR	63	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.001	0.001	
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.001	0.001	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Front 1g SAR	0	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.002	0.003	L48.F1
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.002	0.003	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			

B48 Red tune up is same as full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.010	0.013	L48.R1
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.010	0.013	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Left 10g SAR	0	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.033	0.042	
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.031	0.040	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Top 10g SAR	0	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.056	0.072	
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.055	0.071	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Top tilt 10g SAR	0	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.059	0.076	L48.R10
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.059	0.076	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			
Rear 10g SAR	0	QPSK	55340	3560	1	99	8.5	7.28			
			55773	3603.3	1	0	8.5	7.37			
			56207	3646.7	1	0	8.5	7.41	0.022	0.028	
			56640	3690	1	0	8.5	7.36			
			55340	3560	50	24	8.5	7.21			
			55773	3603.3	50	50	8.5	7.37			
			56207	3646.7	50	0	8.5	7.42	0.020	0.026	
			56640	3690	50	0	8.5	7.36			
			55773	3603.3	100	0	8.5	7.35			

B66 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	132072	1720	1	99	24.0	22.83			
			132322	1745	1	0	24.0	22.90			
			132572	1770	1	0	24.0	22.97	0.109	0.138	
			132072	1720	50	50	23.0	21.94			
			132322	1745	50	50	23.0	21.96	0.083	0.105	
			132572	1770	50	0	23.0	21.90			
Left 1g SAR	52	QPSK	132072	1720	100	0	23.0	21.91			
			132072	1720	1	99	24.0	22.83			
			132322	1745	1	0	24.0	22.90			
			132572	1770	1	0	24.0	22.97	0.101	0.128	
			132072	1720	50	50	23.0	21.94			
			132322	1745	50	50	23.0	21.96	0.077	0.098	
Top 1g SAR	63	QPSK	132572	1770	50	0	23.0	21.90			
			132072	1720	100	0	23.0	21.91			
			132072	1720	1	99	24.0	22.83			
			132322	1745	1	0	24.0	22.90			
			132572	1770	1	0	24.0	22.97	0.132	0.167	L66.F1
			132072	1720	50	50	23.0	21.94			
Front 1g SAR	0	QPSK	132322	1745	50	50	23.0	21.96	0.105	0.133	
			132572	1770	50	0	23.0	21.90			
			132072	1720	100	0	23.0	21.91			
			132072	1720	1	99	24.0	22.83			
			132322	1745	1	0	24.0	22.90			
			132572	1770	1	0	24.0	22.97	0.058	0.074	
			132072	1720	50	50	23.0	21.94			
			132322	1745	50	50	23.0	21.96	0.042	0.053	
			132572	1770	50	0	23.0	21.90			
			132072	1720	100	0	23.0	21.91			

B66 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	132072	1720	1	0	18.0	16.66			
			132322	1745	1	99	18.0	16.89			
			132572	1770	1	0	18.0	16.98	0.446	0.564	L66.R1
			132072	1720	50	24	18.0	16.81			
			132322	1745	50	50	18.0	17.06	0.338	0.420	
			132572	1770	50	0	18.0	16.93			
Left 10g SAR	0	QPSK	132322	1745	100	0	18.0	16.88			
			132072	1720	1	0	18.0	16.66			
			132322	1745	1	99	18.0	16.89			
			132572	1770	1	0	18.0	16.98	0.719	0.909	
			132072	1720	50	24	18.0	16.81			
			132322	1745	50	50	18.0	17.06	0.759	0.942	L66.R10
Top 10g SAR	0	QPSK	132572	1770	50	0	18.0	16.93			
			132322	1745	100	0	18.0	16.88			
			132072	1720	1	0	18.0	16.66			
			132322	1745	1	99	18.0	16.89			
			132572	1770	1	0	18.0	16.98	0.449	0.568	
			132072	1720	50	24	18.0	16.81			
Top tilt 10g SAR	0	QPSK	132322	1745	50	50	18.0	17.06	0.526	0.653	
			132572	1770	50	0	18.0	16.93			
			132322	1745	100	0	18.0	16.88			
			132072	1720	1	0	18.0	16.66			
			132322	1745	1	99	18.0	16.89			
			132572	1770	1	0	18.0	16.98	0.657	0.831	
Rear 10g SAR	0	QPSK	132072	1720	50	24	18.0	16.81			
			132322	1745	50	50	18.0	17.06	0.719	0.893	
			132572	1770	50	0	18.0	16.93			
			132322	1745	100	0	18.0	16.88			
			132072	1720	1	0	18.0	16.66			
			132322	1745	1	99	18.0	16.89			
Rear 10g SAR	0	QPSK	132572	1770	1	0	18.0	16.98	0.503	0.636	
			132072	1720	50	24	18.0	16.81			
			132322	1745	50	50	18.0	17.06	0.499	0.620	
			132572	1770	50	0	18.0	16.93			
			132322	1745	100	0	18.0	16.88			

LTE Up-Link Carrier Aggregation and power

Full

Combination	Test Position	PCC								SCC1								Power [dBm]			1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.	
																		UL CA Enabled		Single Carrier	meas.	Scaled	meas.	Scaled		
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	PCC & SCC1 DLCA SISO	PCC & SCC1 DLCA 4x4 MIMO							
CA_7C	Back 1g	7	20	20850	2510	QPSK	1	99	2850	2630	7	20	21048	2529.8	QPSK	1	0	3048	2649.8	23.78	23.77	23.24	0.277	0.350		ULCA7-F1(1g)
CA_41C	Back 1g	41	20	41490	2680	QPSK	1	0	41490	2680	41	20	41292	2660.2	QPSK	1	99	41292	2660.2	23.89	23.83	23.2	0.143	0.176		ULCA41-F1(1g)

Red

Combination	Test Position	PCC								SCC1								Power [dBm]			1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	UL CA Enabled		Single Carrier	meas.	Scaled	meas.	Scaled	
																		PCC & SCC1 DLCA SISO	PCC & SCC1 DLCA 4x4 MIMO						
CA_7C	Top tilt	7	20	20850	2510	QPSK	1 99	2850	2630	7	20	21048	2529.8	QPSK	1 0	3048	2649.8	16.57	16.56	16.38			0.256	0.317	ULCA7-R1
CA_7C	Back	7	20	20850	2510	QPSK	50 50	2850	2630	7	20	21048	2529.8	QPSK	50 0	3048	2649.8	16.68	16.67	16.50	0.243	0.293			ULCA7-R2
CA_41C	Back 1g / Top tilt 10g	41	20	41490	2680	QPSK	1 0	41490	2680	41	20	41292	2660.2	QPSK	1 99	41292	2660.2	15.40	15.37	15.37	0.045	0.061	0.139	0.188	ULCA41-R1(1g) / ULCA41-R2(10g)

Conclusion:

The single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg. Therefore, no additional measurements are required.

NR
n2 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	QPSK	372000	1860	104	1	24.5	23.20	0.100	0.135	
			376000	1880	1	1	24.5	23.16			
			380000	1900	1	1	24.5	23.06			
			372000	1860	28	50	24.0	23.13	0.098	0.120	
			376000	1880	28	50	24.0	23.10			
			380000	1900	28	50	24.0	23.01			
			372000	1860	0	100	24.0	22.66			
Left 1g SAR	52	QPSK	372000	1860	104	1	24.5	23.20	0.104	0.140	
			376000	1880	1	1	24.5	23.16			
			380000	1900	1	1	24.5	23.06			
			372000	1860	28	50	24.0	23.13	0.107	0.131	
			376000	1880	28	50	24.0	23.10			
			380000	1900	28	50	24.0	23.01			
			372000	1860	0	100	24.0	22.66			
Top 1g SAR	63	QPSK	372000	1860	104	1	24.5	23.20	0.135	0.182	n2.F1
			376000	1880	1	1	24.5	23.16			
			380000	1900	1	1	24.5	23.06			
			372000	1860	28	50	24.0	23.13	0.132	0.161	
			376000	1880	28	50	24.0	23.10			
			380000	1900	28	50	24.0	23.01			
			372000	1860	0	100	24.0	22.66			
Front 1g SAR	0	QPSK	372000	1860	104	1	24.5	23.20	0.047	0.063	
			376000	1880	1	1	24.5	23.16			
			380000	1900	1	1	24.5	23.06			
			372000	1860	28	50	24.0	23.13	0.037	0.045	
			376000	1880	28	50	24.0	23.10			
			380000	1900	28	50	24.0	23.01			
			372000	1860	0	100	24.0	22.66			

n2 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	QPSK	372000	1860	1	1	14.9	14.54	0.118	0.128	n2.R1
			376000	1880	53	1	14.9	14.39			
			380000	1900	1	1	14.9	14.21			
			372000	1860	0	50	14.9	14.49	0.112	0.123	
			376000	1880	28	50	14.9	14.32			
			380000	1900	0	50	14.9	14.17			
			372000	1860	0	100	14.9	14.40			
Left 10g SAR	0	QPSK	372000	1860	1	1	14.9	14.54	0.346	0.376	
			376000	1880	53	1	14.9	14.39			
			380000	1900	1	1	14.9	14.21			
			372000	1860	0	50	14.9	14.49	0.343	0.377	n2.R10
			376000	1880	28	50	14.9	14.32			
			380000	1900	0	50	14.9	14.17			
			372000	1860	0	100	14.9	14.40			
Top 10g SAR	0	QPSK	372000	1860	1	1	14.9	14.54	0.131	0.142	
			376000	1880	53	1	14.9	14.39			
			380000	1900	1	1	14.9	14.21			
			372000	1860	0	50	14.9	14.49	0.129	0.142	
			376000	1880	28	50	14.9	14.32			
			380000	1900	0	50	14.9	14.17			
			372000	1860	0	100	14.9	14.40			
Top tilt 10g SAR	0	QPSK	372000	1860	1	1	14.9	14.54	0.346	0.376	
			376000	1880	53	1	14.9	14.39			
			380000	1900	1	1	14.9	14.21			
			372000	1860	0	50	14.9	14.49	0.330	0.363	
			376000	1880	28	50	14.9	14.32			
			380000	1900	0	50	14.9	14.17			
			372000	1860	0	100	14.9	14.40			
Rear 10g SAR	0	QPSK	372000	1860	1	1	14.9	14.54	0.260	0.282	
			376000	1880	53	1	14.9	14.39			
			380000	1900	1	1	14.9	14.21			
			372000	1860	0	50	14.9	14.49	0.258	0.284	
			376000	1880	28	50	14.9	14.32			
			380000	1900	0	50	14.9	14.17			
			372000	1860	0	100	14.9	14.40			

n5 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	BPSK	167300	836.5	1	1	24.5	23.22	0.113	0.152	
			167300	836.5	28	50	24.0	23.20	0.109	0.131	
			167300	836.5	0	100	24.0	22.71			
Left 1g SAR	52	BPSK	167300	836.5	1	1	24.5	23.22	0.023	0.031	
			167300	836.5	28	50	24.0	23.20	0.020	0.024	
			167300	836.5	0	100	24.0	22.71			
Top 1g SAR	63	BPSK	167300	836.5	1	1	24.5	23.22	0.026	0.035	
			167300	836.5	28	50	24.0	23.20	0.028	0.034	
			167300	836.5	0	100	24.0	22.71			
Front 1g SAR	0	BPSK	167300	836.5	1	1	24.5	23.22	0.297	0.399	
			167300	836.5	28	50	24.0	23.20	0.347	0.417	n5.F1
			167300	836.5	0	100	24.0	22.71			

n5 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	BPSK	167300	836.5	1	1	19.4	19.10	0.185	0.198	
			167300	836.5	0	50	19.4	19.04	0.183	0.199	n5.R1
			167300	836.5	0	100	19.4	18.93			
Left 10g SAR	0	BPSK	167300	836.5	1	1	19.4	19.10	0.185	0.198	
			167300	836.5	0	50	19.4	19.04	0.182	0.198	
			167300	836.5	0	100	19.4	18.93			
Top 10g SAR	0	BPSK	167300	836.5	1	1	19.4	19.10	0.194	0.208	
			167300	836.5	0	50	19.4	19.04	0.193	0.210	
			167300	836.5	0	100	19.4	18.93			
Top tilt 10g SAR	0	QPSK	167300	836.5	1	1	19.4	19.10	0.248	0.266	n5.R10
			167300	836.5	0	50	19.4	19.04	0.244	0.265	
			167300	836.5	0	100	19.4	18.93			
Rear 10g SAR	0	BPSK	167300	836.5	1	1	19.4	19.10	0.231	0.248	
			167300	836.5	0	50	19.4	19.04	0.232	0.252	
			167300	836.5	0	100	19.4	18.93			

n66 Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	BPSK	344000	1720	104	1	24.5	23.33	0.125	0.164	
			349000	1745	1	1	24.5	23.32			
			354000	1770	1	1	24.5	23.31			
			344000	1720	28	50	24.0	23.06			
			349000	1745	28	50	24.0	23.22	0.118	0.141	
			354000	1770	28	50	24.0	23.07			
			349000	1745	0	100	24.0	22.71			
Left 1g SAR	52	BPSK	344000	1720	104	1	24.5	23.33	0.111	0.145	
			349000	1745	1	1	24.5	23.32			
			354000	1770	1	1	24.5	23.31			
			344000	1720	28	50	24.0	23.06			
			349000	1745	28	50	24.0	23.22	0.102	0.122	
			354000	1770	28	50	24.0	23.07			
			349000	1745	0	100	24.0	22.71			
Top 1g SAR	63	QPSK	344000	1720	104	1	24.5	23.33	0.150	0.196	n66.F1
			349000	1745	1	1	24.5	23.32			
			354000	1770	1	1	24.5	23.31			
			344000	1720	28	50	24.0	23.06	0.142	0.176	
			349000	1745	28	50	24.0	23.22			
			354000	1770	28	50	24.0	23.07			
			349000	1745	0	100	24.0	22.71			
Front 1g SAR	0	QPSK	344000	1720	104	1	24.5	23.33	0.030	0.039	
			349000	1745	1	1	24.5	23.32			
			354000	1770	1	1	24.5	23.31			
			344000	1720	28	50	24.0	23.06	0.027	0.034	
			349000	1745	28	50	24.0	23.22			
			354000	1770	28	50	24.0	23.07			
			349000	1745	0	100	24.0	22.71			

n66 Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	BPSK	344000	1720	1	1	16.5	16.06			
			349000	1745	104	1	16.5	16.11	0.093	0.102	
			354000	1770	104	1	16.5	16.10			
			344000	1720	0	50	16.5	16.01			
			349000	1745	0	50	16.5	16.10	0.093	0.102	n66.R1
			354000	1770	56	50	16.5	15.99			
Left 10g SAR	0	QPSK	349000	1745	0	100	16.5	16.04			
			344000	1720	1	1	16.5	16.06			
			349000	1745	104	1	16.5	16.11	0.661	0.723	
			354000	1770	104	1	16.5	16.10			
			344000	1720	0	50	16.5	16.01			
			349000	1745	0	50	16.5	16.10	0.673	0.738	n66.R10
Top 10g SAR	0	QPSK	354000	1770	56	50	16.5	15.99			
			349000	1745	0	100	16.5	16.04			
			344000	1720	1	1	16.5	16.06			
			349000	1745	104	1	16.5	16.11	0.376	0.411	
			354000	1770	104	1	16.5	16.10			
			344000	1720	0	50	16.5	16.01			
Top tilt 10g SAR	0	QPSK	349000	1745	0	50	16.5	16.10	0.405	0.444	
			354000	1770	56	50	16.5	15.99			
			349000	1745	0	100	16.5	16.04			
			344000	1720	1	1	16.5	16.06			
			349000	1745	104	1	16.5	16.11	0.588	0.643	
			354000	1770	104	1	16.5	16.10			
Rear 10g SAR	0	QPSK	344000	1720	0	50	16.5	16.01			
			349000	1745	0	50	16.5	16.10	0.638	0.700	
			354000	1770	56	50	16.5	15.99			
			349000	1745	0	100	16.5	16.04			
			344000	1720	1	1	16.5	16.06			
			349000	1745	104	1	16.5	16.11	0.415	0.454	
Rear 10g SAR	0	QPSK	354000	1770	104	1	16.5	16.10			
			344000	1720	0	50	16.5	16.01			
			349000	1745	0	50	16.5	16.10	0.414	0.454	
			354000	1770	56	50	16.5	15.99			
			349000	1745	0	100	16.5	16.04			
			344000	1720	1	1	16.5	16.06			

n77(block A) Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	BPSK	633334	3500	1	1	24.5	23.05	0.130	0.182	n77AF1
			633334	3500	69	135	24.0	22.83	0.077	0.101	
			633334	3500	0	270	24.0	22.36			
Left 1g SAR	52	BPSK	633334	3500	1	1	24.5	23.05	0.092	0.128	
			633334	3500	69	135	24.0	22.83	0.071	0.093	
			633334	3500	0	270	24.0	22.36			
Top 1g SAR	63	BPSK	633334	3500	1	1	24.5	23.05	0.083	0.116	
			633334	3500	69	135	24.0	22.83	0.070	0.092	
			633334	3500	0	270	24.0	22.36			
Front 1g SAR	0	BPSK	633334	3500	1	1	24.5	23.05	0.035	0.049	
			633334	3500	69	135	24.0	22.83	0.038	0.050	
			633334	3500	0	270	24.0	22.36			

n77(block A) Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	BPSK	633334	3500	1	1	17.0	16.65	0.085	0.092	n77AR1
			633334	3500	135	0	17.0	16.52	0.074	0.083	
			633334	3500	270	0	17.0	16.52			
Left 10g SAR	0	BPSK	633334	3500	1	1	17.0	16.65	0.312	0.338	
			633334	3500	135	0	17.0	16.52	0.318	0.355	
			633334	3500	270	0	17.0	16.52			
Top 10g SAR	0	BPSK	633334	3500	1	1	17.0	16.65	0.336	0.364	
			633334	3500	135	0	17.0	16.52	0.335	0.374	
			633334	3500	270	0	17.0	16.52			
Top tilt 10g SAR	0	BPSK	633334	3500	1	1	17.0	16.65	0.349	0.378	
			633334	3500	135	0	17.0	16.52	0.346	0.386	
			633334	3500	270	0	17.0	16.52			
Rear 10g SAR	0	BPSK	633334	3500	1	1	17.0	16.65	0.209	0.227	
			633334	3500	135	0	17.0	16.52	0.213	0.238	
			633334	3500	270	0	17.0	16.52			

n77(block C) Full

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	13	BPSK	656000	3840	271	1	24.5	23.20	0.065	0.088	
			656000	3840	69	135	24.0	23.13	0.068	0.083	
			656000	3840	0	270	24.0	22.66			
Left 1g SAR	52	BPSK	656000	3840	271	1	24.5	23.20	0.063	0.085	
			656000	3840	69	135	24.0	23.13	0.055	0.067	
			656000	3840	0	270	24.0	22.66			
Top 1g SAR	63	BPSK	656000	3840	271	1	24.5	23.20	0.146	0.197	
			656000	3840	69	135	24.0	23.13	0.102	0.125	
			656000	3840	0	270	24.0	22.66			
Front 1g SAR	0	BPSK	656000	3840	271	1	24.5	23.20	0.515	0.695	n77C.F1
			656000	3840	69	135	24.0	23.13	0.362	0.442	
			656000	3840	0	270	24.0	22.66			

n77(block C) Red

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Back 1g SAR	0	BPSK	656000	3840	1	137	17.0	16.65	0.086	0.093	
			656000	3840	135	138	17.0	16.54	0.095	0.106	n77C.R1
			656000	3840	270	0	17.0	16.45			
Left 10g SAR	0	BPSK	656000	3840	1	137	17.0	16.65	0.147	0.159	
			656000	3840	135	138	17.0	16.54	0.193	0.215	
			656000	3840	270	0	17.0	16.45			
Top 10g SAR	0	BPSK	656000	3840	1	137	17.0	16.65	0.355	0.385	
			656000	3840	135	138	17.0	16.54	0.400	0.445	
			656000	3840	270	0	17.0	16.45			
Top tilt 10g SAR	0	BPSK	656000	3840	1	137	17.0	16.65	0.587	0.636	
			656000	3840	135	138	17.0	16.54	0.614	0.683	n77C.R10
			656000	3840	270	0	17.0	16.45			
Rear 10g SAR	0	BPSK	656000	3840	1	137	17.0	16.65	0.246	0.267	
			656000	3840	135	138	17.0	16.54	0.260	0.289	
			656000	3840	270	0	17.0	16.45			

Appendix Measurement plot

Plot No. W2.F1

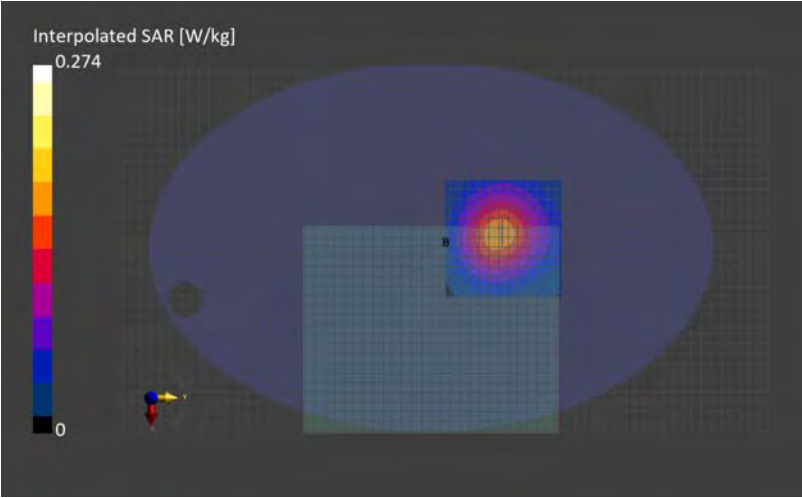
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1880.000	7.91	39.9	1.44

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-07-24, 17:28	2024-07-24, 17:43
psSAR1g [W/Kg]	0.152	0.165
psSAR10g [W/Kg]	0.096	0.108
Power Drift [dB]	-0.00	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.4
Dist 3dB Peak [mm]	-	> 15.0



Plot No. W2.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1880.000	7.91	39.5	1.41

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 20:24	2024-08-05, 20:30
psSAR1g [W/Kg]	0.176	0.223
psSAR10g [W/Kg]	0.097	0.115
Power Drift [dB]	-0.03	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	82.6
Dist 3dB Peak [mm]	-	10.2



Plot No. W2.R10

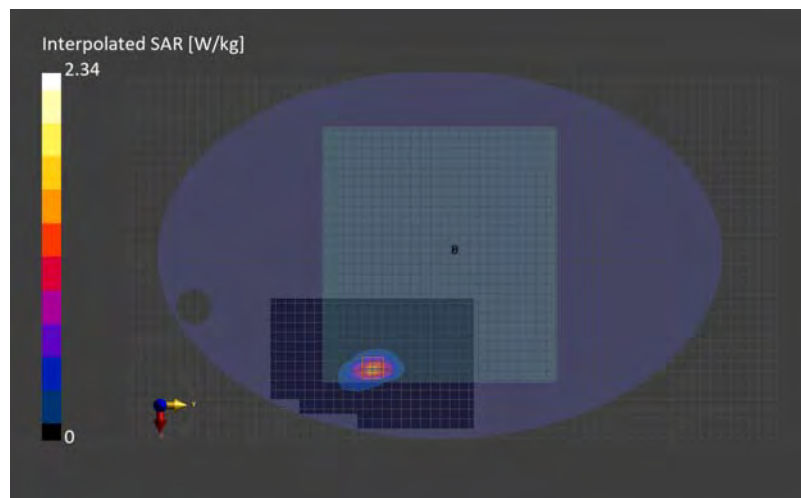
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1880.000	7.91	39.2	1.43

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-19, 16:13	2024-08-19, 16:19
psSAR1g [W/Kg]	1.24	1.17
psSAR10g [W/Kg]	0.624	0.580
Power Drift [dB]	0.02	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	78.8
Dist 3dB Peak [mm]	-	8.1



Plot No. W4.F1

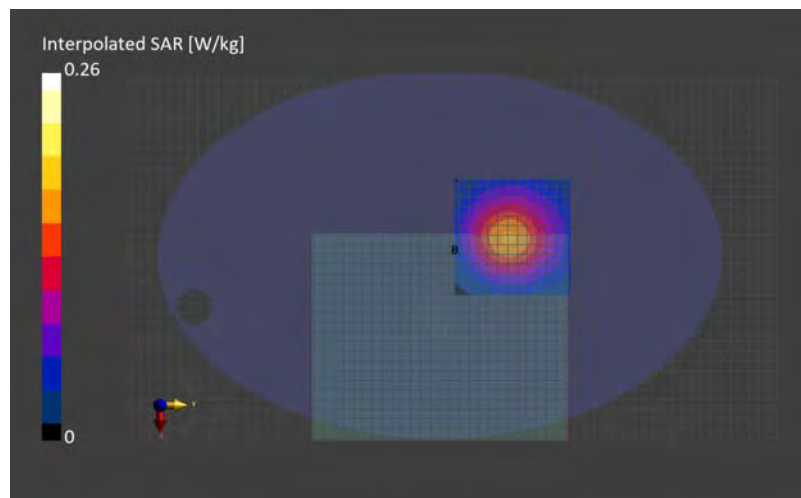
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1732.500	8.27	40.2	1.34

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-07-24, 17:50	2024-07-24, 18:05
psSAR1g [W/Kg]	0.152	0.163
psSAR10g [W/Kg]	0.098	0.109
Power Drift [dB]	-0.03	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.5
Dist 3dB Peak [mm]	-	> 15.0



Plot No. W4.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1732.600	8.27	40.4	1.37

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 15:46	2024-08-01, 15:54
psSAR1g [W/Kg]	0.396	0.464
psSAR10g [W/Kg]	0.216	0.242
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.4
Dist 3dB Peak [mm]	-	9.4



Plot No. W4.R10

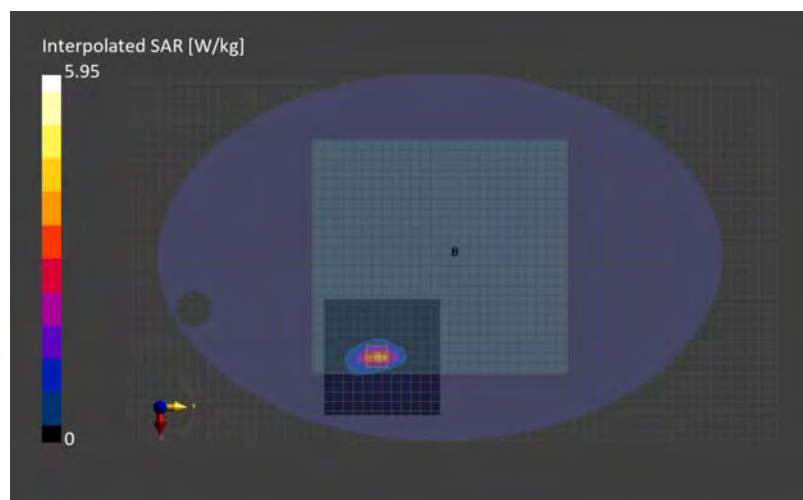
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1732.600	8.27	39.8	1.32

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-30	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-31, 10:01	2024-07-31, 10:08
psSAR1g [W/Kg]	3.16	2.96
psSAR10g [W/Kg]	1.56	1.47
Power Drift [dB]	0.09	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.4
Dist 3dB Peak [mm]	-	7.3



Plot No. W5.F1

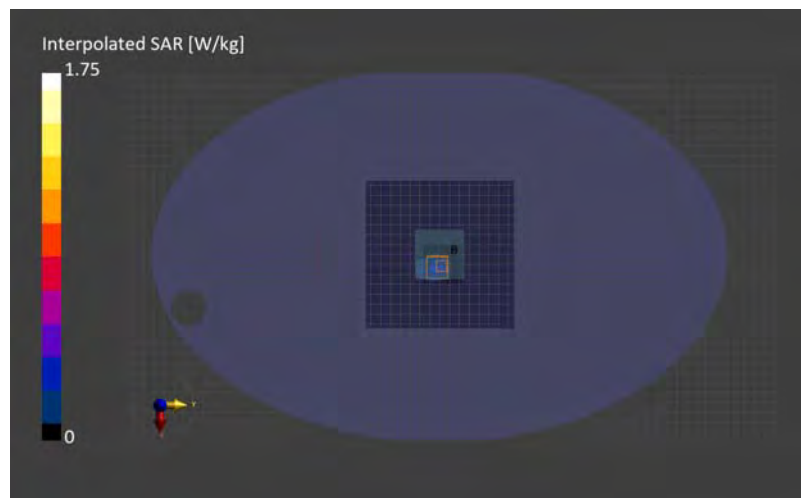
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	836.600	9.61	41.8	0.917

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-08, 22:01	2024-08-08, 22:29
psSAR1g [W/Kg]	0.357	0.428
psSAR10g [W/Kg]	0.186	0.174
Power Drift [dB]	-0.00	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	52.2
Dist 3dB Peak [mm]	-	6.3



Plot No. W5.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	836.600	9.61	42.2	0.933

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 16:06	2024-08-01, 16:13
psSAR1g [W/Kg]	0.482	0.498
psSAR10g [W/Kg]	0.319	0.318
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.8
Dist 3dB Peak [mm]	-	> 15.0



Plot No. W5.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	836.600	8.74	40.1	0.938

Hardware Setup

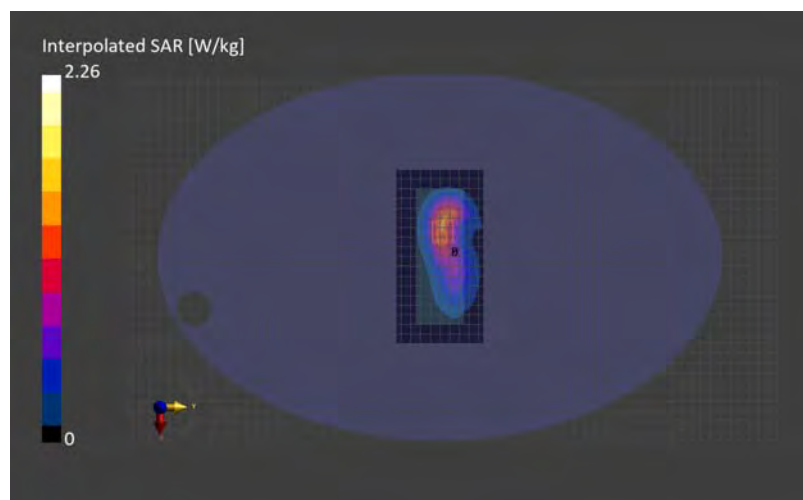
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-27	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-27, 12:39	2024-08-27, 11:53
psSAR1g [W/Kg]	1.17	1.16
psSAR10g [W/Kg]	0.763	0.705
Power Drift [dB]	-0.00	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	78.1
Dist 3dB Peak [mm]	-	11.9



Plot No. L2.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1860.000	7.91	39.9	1.42

Hardware Setup

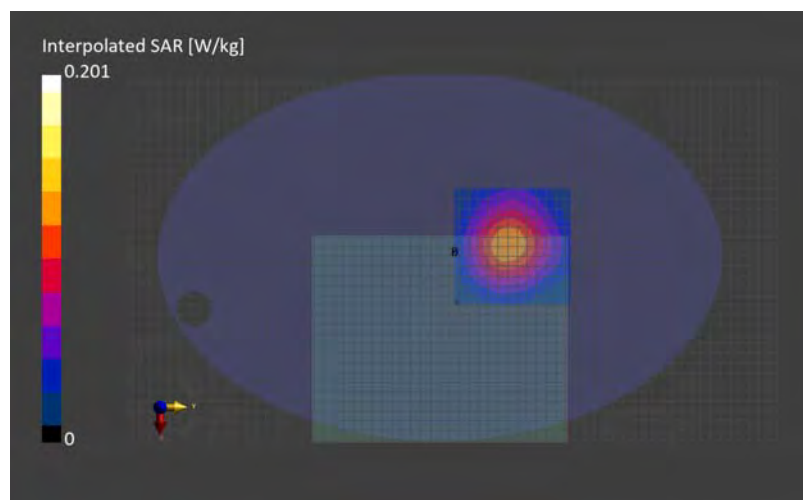
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-24, 16:14	2024-07-24, 16:30
psSAR1g [W/Kg]	0.114	0.122
psSAR10g [W/Kg]	0.072	0.080
Power Drift [dB]	-0.05	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.6
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L2.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1860.000	7.91	39.5	1.41

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 21:11	2024-08-05, 21:17
psSAR1g [W/Kg]	0.148	0.181
psSAR10g [W/Kg]	0.081	0.094
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	80.7
Dist 3dB Peak [mm]	-	10.2



Plot No. L2.R10

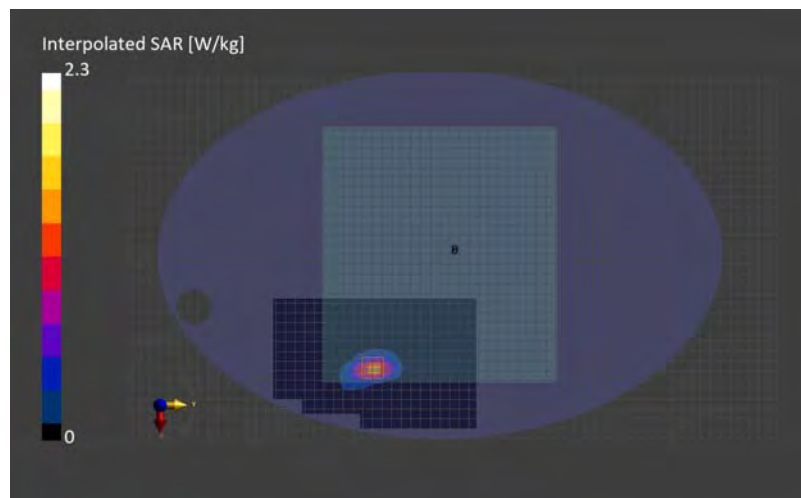
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1860.000	7.91	39.2	1.41

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-19, 17:05	2024-08-19, 17:11
psSAR1g [W/Kg]	1.23	1.16
psSAR10g [W/Kg]	0.610	0.571
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	79.0
Dist 3dB Peak [mm]	-	8.1



Plot No. L4.F1

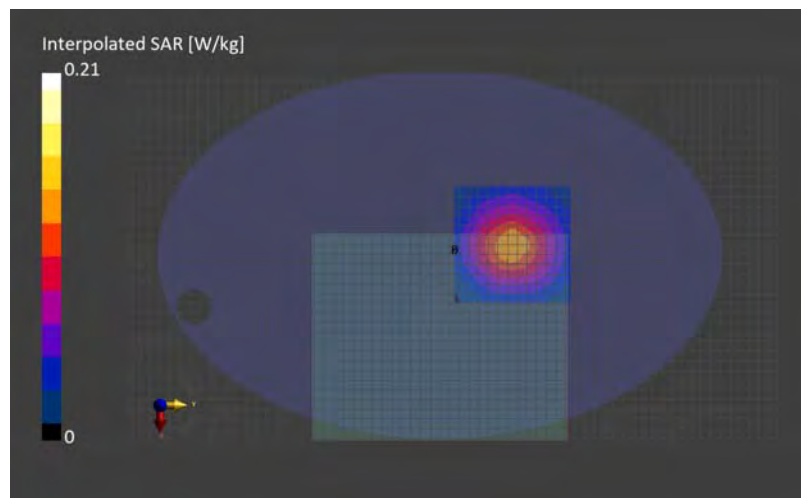
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1732.500	8.27	40.9	1.34

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-07-22, 18:53	2024-07-22, 19:08
psSAR1g [W/Kg]	0.118	0.134
psSAR10g [W/Kg]	0.076	0.090
Power Drift [dB]	0.14	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.0
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L4.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1732.500	8.27	40.4	1.37

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 18:38	2024-08-01, 18:45
psSAR1g [W/Kg]	0.370	0.444
psSAR10g [W/Kg]	0.205	0.233
Power Drift [dB]	-0.02	0.04
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.5
Dist 3dB Peak [mm]	-	10.2



Plot No. L4.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	1732.500	8.27	39.4	1.34

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-20, 03:59	2024-08-20, 04:05
psSAR1g [W/Kg]	1.32	1.40
psSAR10g [W/Kg]	0.722	0.744
Power Drift [dB]	-0.01	0.03
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.8
Dist 3dB Peak [mm]	-	8.4



Plot No. L5.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	836.500	9.61	41.8	0.917

Hardware Setup

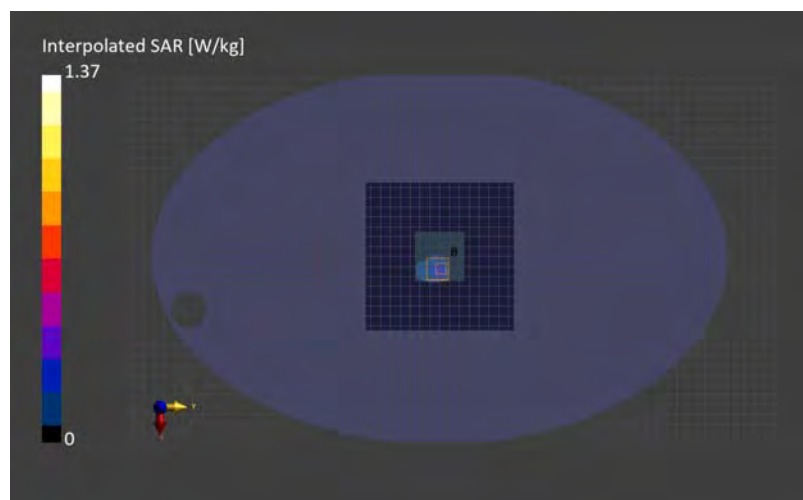
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-08, 22:47	2024-08-08, 23:10
psSAR1g [W/Kg]	0.279	0.323
psSAR10g [W/Kg]	0.144	0.131
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	55.1
Dist 3dB Peak [mm]	-	6.1



Plot No. L5.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	836.500	9.61	42.2	0.933

Hardware Setup

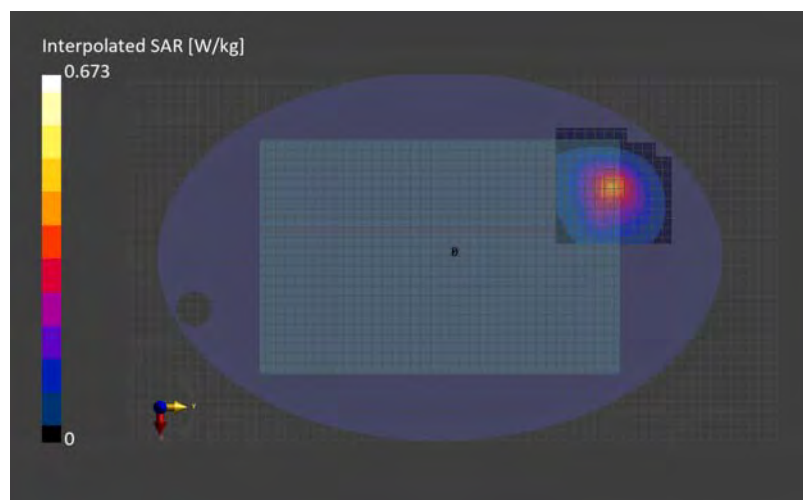
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 19:37	2024-08-01, 19:44
psSAR1g [W/Kg]	0.399	0.406
psSAR10g [W/Kg]	0.264	0.261
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.7
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L5.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	836.500	9.61	41.8	0.917

Hardware Setup

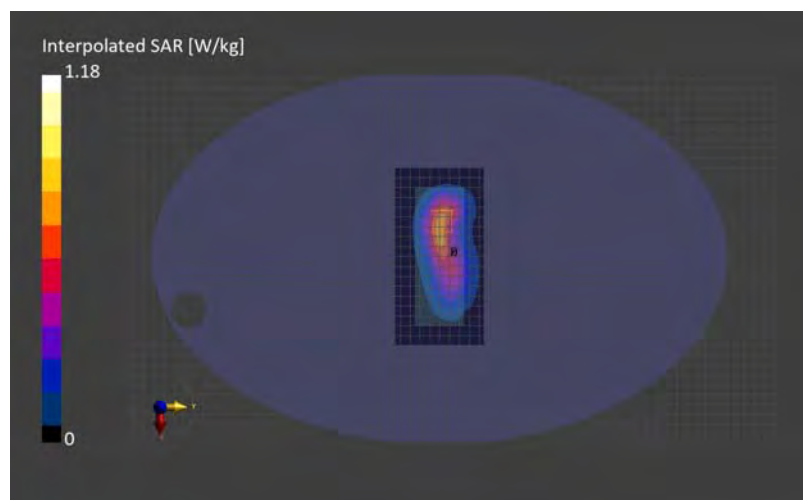
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-09, 15:10	2024-08-09, 15:19
psSAR1g [W/Kg]	0.634	0.604
psSAR10g [W/Kg]	0.414	0.374
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.4
Dist 3dB Peak [mm]	-	13.2



Plot No. L7.F1

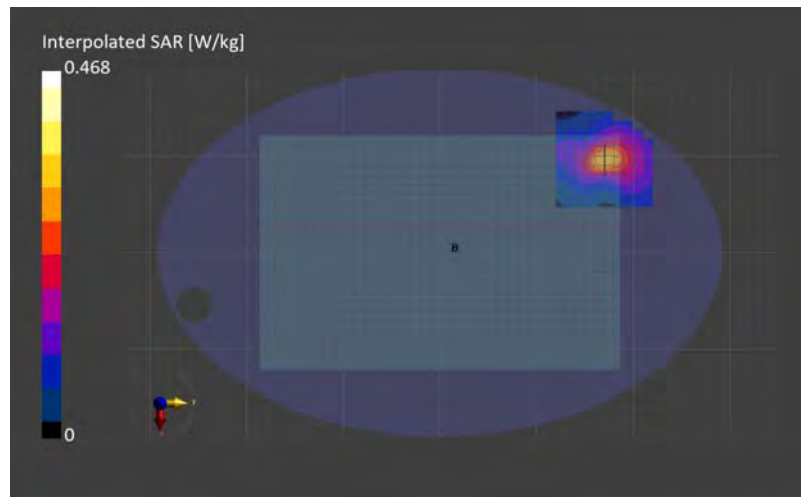
SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 13.00	2510.000	7.02	37.9	1.77

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-24, 16:03	2024-07-24, 16:11
psSAR1g [W/Kg]	0.280	0.274
psSAR10g [W/Kg]	0.153	0.154
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	83.7
Dist 3dB Peak [mm]	-	19.3



Plot No. L7.R1

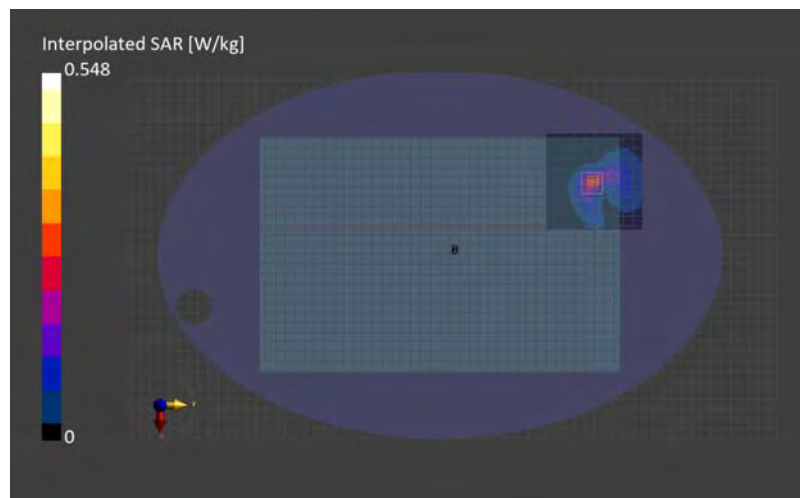
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	2510.000	7.67	39.9	1.88

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-02	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-09-02, 10:22	2024-09-02, 10:29
psSAR1g [W/Kg]	0.276	0.271
psSAR10g [W/Kg]	0.123	0.120
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.9
Dist 3dB Peak [mm]	-	8.5



Plot No. L7.R10

SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	2510.000	7.67	38.7	1.89

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-22	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-22, 21:06	2024-08-22, 21:25
psSAR1g [W/Kg]	0.599	0.606
psSAR10g [W/Kg]	0.270	0.268
Power Drift [dB]	-0.14	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	76.8
Dist 3dB Peak [mm]	-	7.3



Plot No. L12.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	707.500	10.03	41.9	0.864

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-08, 23:27	2024-08-08, 23:53
psSAR1g [W/Kg]	0.259	0.320
psSAR10g [W/Kg]	0.130	0.120
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	52.5
Dist 3dB Peak [mm]	-	6.4



Plot No. L12.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	707.500	10.03	42.6	0.882

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge:20240801 650 1850, 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

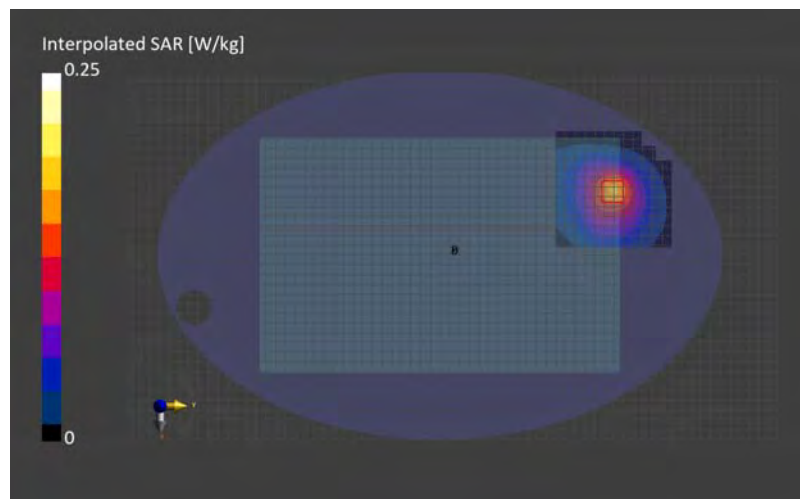
Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 19:57	2024-08-01, 20:04
psSAR1g [W/Kg]	0.152	0.155
psSAR8g [W/Kg]	0.110	0.109
psSAR10g [W/Kg]	0.104	0.104
Power Drift [dB]	-0.00	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.2
Dist 3dB Peak [mm]	-	22.1

During the test, temperature fluctuation is within 2 degree Celsius.



Plot No. L12.R10

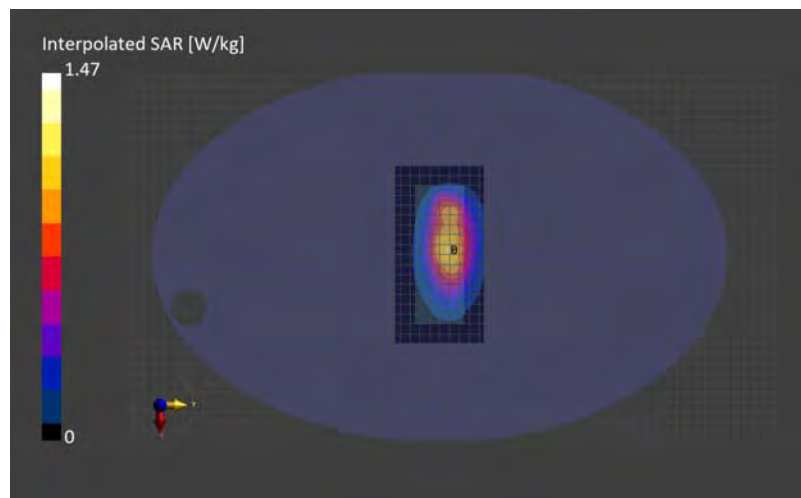
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	707.500	10.03	41.9	0.864

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-	-
Scan	Area Scan	Zoom Scan	
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0	
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	
Sensor Surface [mm]	3.0	1.4	
Graded Grid	N/A	Yes	
Grading Ratio	N/A	1.5	
MAIA	Y	Y	
Surface Detection	VMS + 6p	VMS + 6p	
Scan Method	Measured	Measured	
Measurement Results		-	-
Scan	Area Scan	Zoom Scan	
Date	2024-08-09, 14:37	2024-08-09, 14:43	
psSAR1g [W/Kg]	0.993	0.938	
psSAR10g [W/Kg]	0.681	0.634	
Power Drift [dB]	0.01	0.01	
Power Scaling	Disabled	Disabled	
TSL Correction	No correction	No correction	
M2/M1 [%]	-	86.3	
Dist 3dB Peak [mm]	-	> 15.0	



Plot No. L13.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	782.000	10.03	41.8	0.896

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-09, 02:19	2024-08-09, 02:44
psSAR1g [W/Kg]	0.256	0.307
psSAR10g [W/Kg]	0.129	0.119
Power Drift [dB]	0.03	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	54.5
Dist 3dB Peak [mm]	-	6.8



Plot No. L13.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	782.000	10.03	42.4	0.912

Hardware Setup

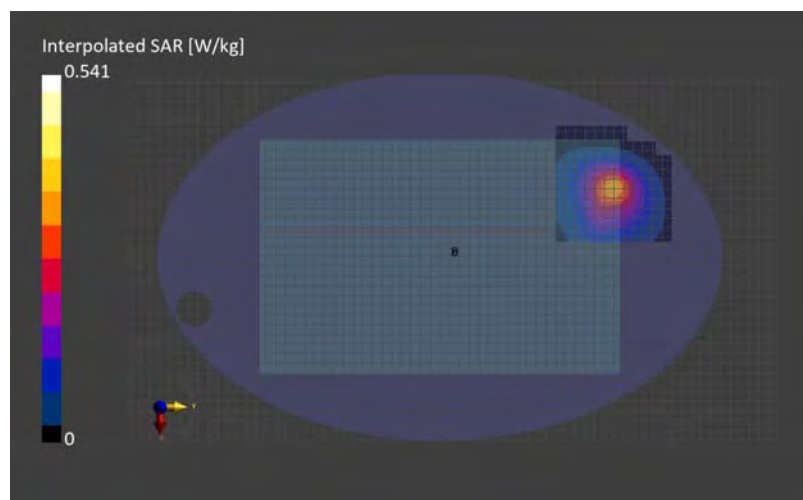
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 21:36	2024-08-01, 21:43
psSAR1g [W/Kg]	0.322	0.331
psSAR10g [W/Kg]	0.216	0.215
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.8
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L13.R10

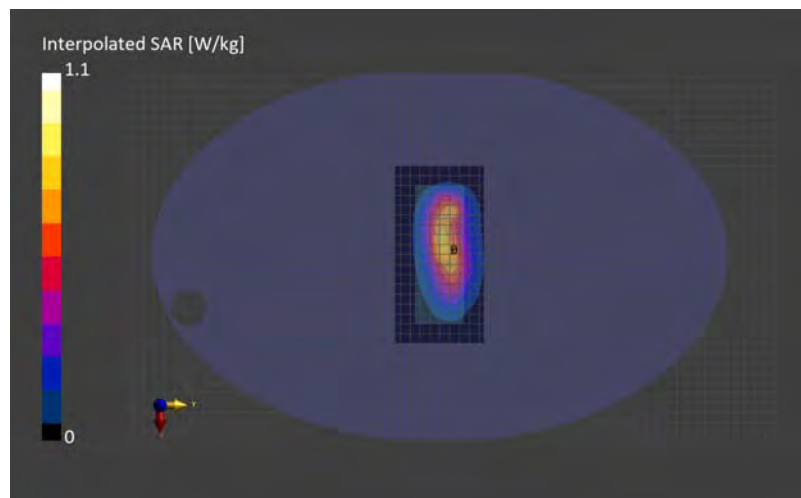
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	782.000	10.03	41.8	0.896

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-09, 15:35	2024-08-09, 15:47
psSAR1g [W/Kg]	0.679	0.653
psSAR10g [W/Kg]	0.459	0.439
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	79.7
Dist 3dB Peak [mm]	-	15.6



Plot No. L14.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	793.000	10.03	41.8	0.903

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-09, 03:02	2024-08-09, 03:37
psSAR1g [W/Kg]	0.265	0.319
psSAR10g [W/Kg]	0.138	0.128
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	54.4
Dist 3dB Peak [mm]	-	6.8



Plot No. L14.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	793.000	10.03	42.4	0.916

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 21:55	2024-08-01, 22:02
psSAR1g [W/Kg]	0.364	0.370
psSAR10g [W/Kg]	0.244	0.241
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.8
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L14.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	793.000	10.03	41.8	0.903

Hardware Setup

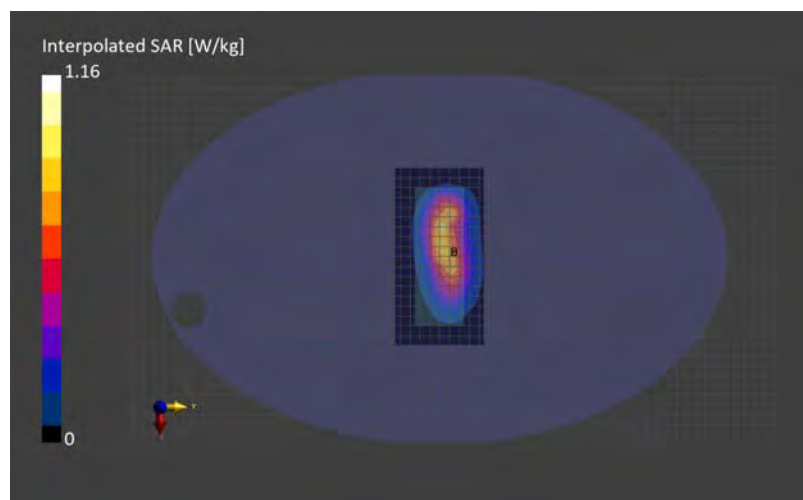
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-09, 15:52	2024-08-09, 16:00
psSAR1g [W/Kg]	0.725	0.687
psSAR10g [W/Kg]	0.483	0.457
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.1
Dist 3dB Peak [mm]	-	12.0



Plot No. L17.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	710.000	10.03	41.9	0.866

Hardware Setup

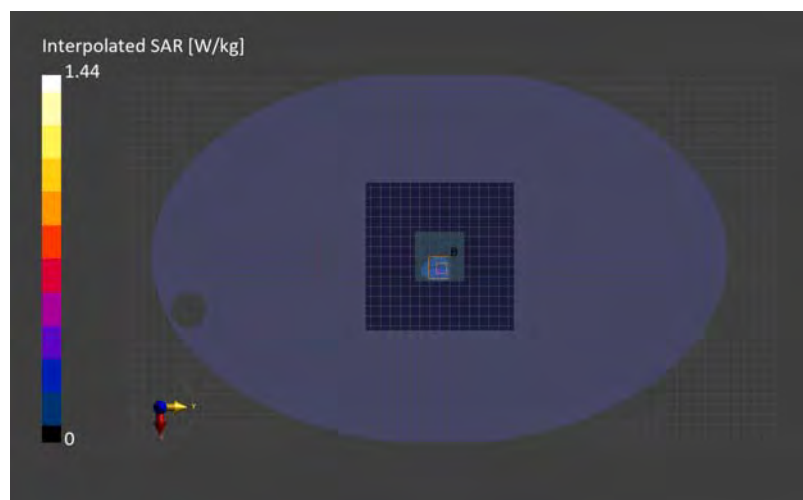
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-09, 00:10	2024-08-09, 00:32
psSAR1g [W/Kg]	0.276	0.335
psSAR10g [W/Kg]	0.139	0.126
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	55.0
Dist 3dB Peak [mm]	-	6.7



Plot No. L17.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	710.000	10.03	42.6	0.883

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge:20240801 650 1850, 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

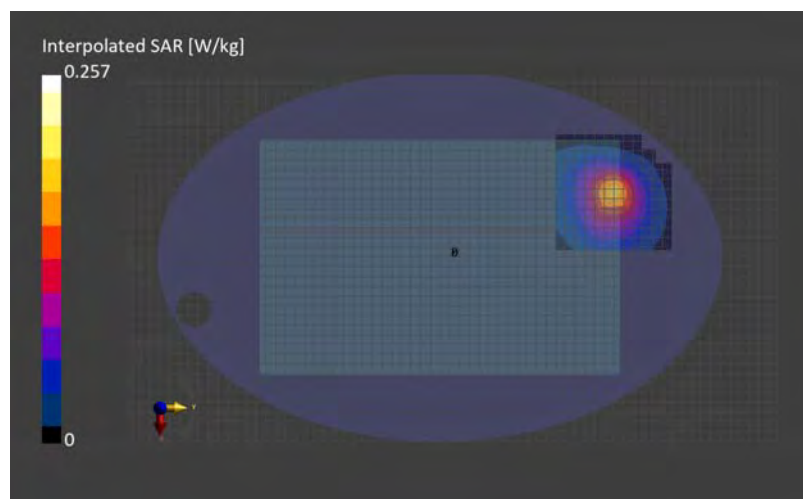
Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-01, 20:17	2024-08-01, 20:24
psSAR1g [W/Kg]	0.160	0.164
psSAR8g [W/Kg]	0.115	0.116
psSAR10g [W/Kg]	0.110	0.110
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.1
Dist 3dB Peak [mm]	-	> 15.0

During the test, temperature fluctuation is within 2 degree Celsius.



Plot No. L17.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	710.000	10.03	41.9	0.866

Hardware Setup

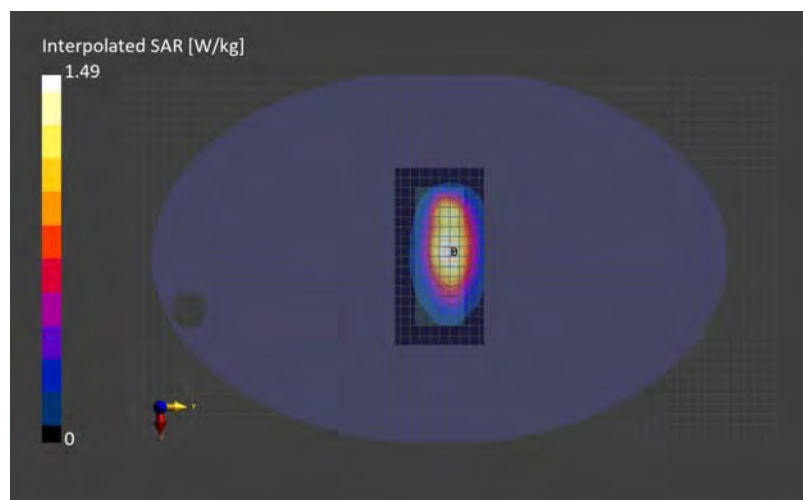
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-09, 14:48	2024-08-09, 14:54
psSAR1g [W/Kg]	0.990	0.943
psSAR10g [W/Kg]	0.679	0.636
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.9
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L25.F1

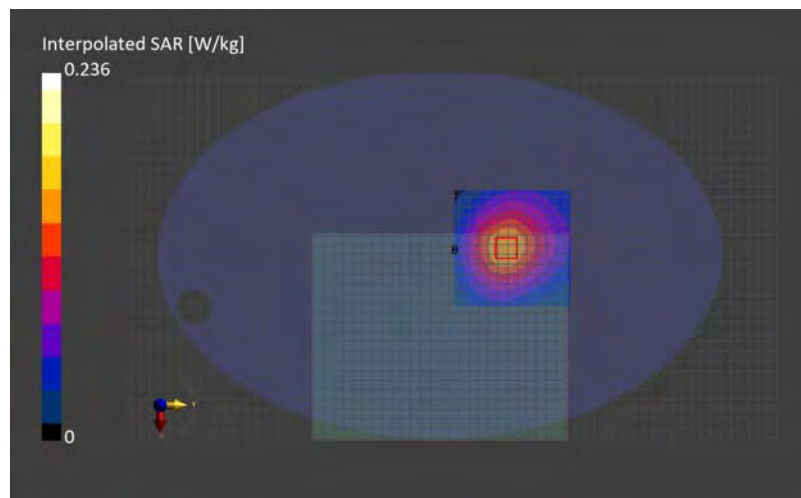
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1905.000	7.91	40.5	1.45

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-22, 19:15	2024-07-22, 19:30
psSAR1g [W/Kg]	0.134	0.145
psSAR10g [W/Kg]	0.085	0.096
Power Drift [dB]	-0.04	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.5
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L25.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1860.000	7.91	39.5	1.41

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 22:07	2024-08-05, 22:13
psSAR1g [W/Kg]	0.100	0.128
psSAR10g [W/Kg]	0.057	0.067
Power Drift [dB]	-0.00	0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	82.9
Dist 3dB Peak [mm]	-	9.4



Plot No. L25.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1860.000	7.91	39.2	1.41

Hardware Setup

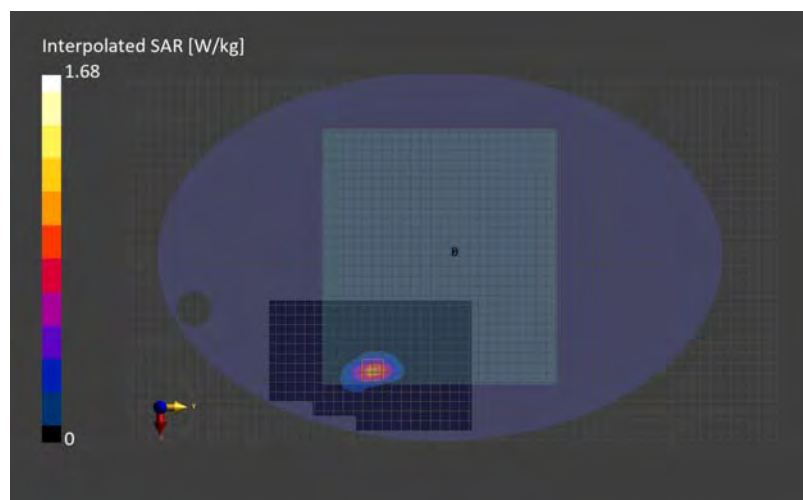
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-19, 17:20	2024-08-19, 17:26
psSAR1g [W/Kg]	0.873	0.838
psSAR10g [W/Kg]	0.437	0.412
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	79.3
Dist 3dB Peak [mm]	-	8.4



Plot No. L26.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	831.500	9.61	41.8	0.915

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-09, 05:19	2024-08-09, 05:55
psSAR1g [W/Kg]	0.275	0.327
psSAR10g [W/Kg]	0.142	0.131
Power Drift [dB]	0.03	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	53.2
Dist 3dB Peak [mm]	-	6.4



Plot No. L26.R1

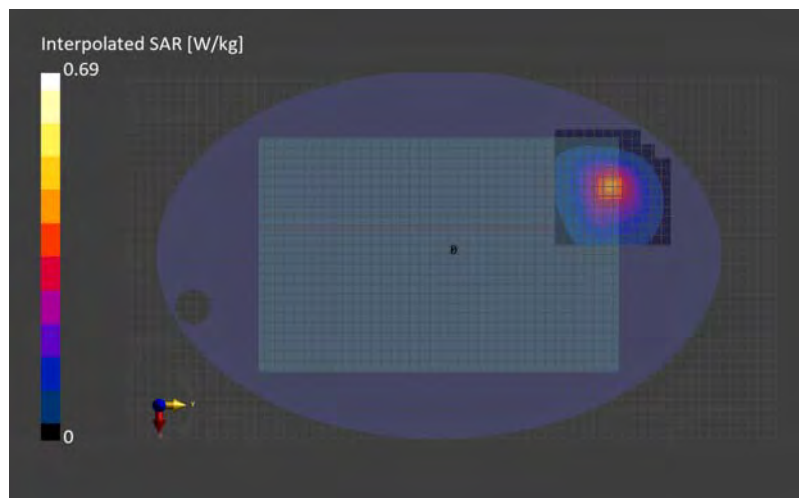
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	831.500	9.61	42.2	0.931

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 22:55	2024-08-01, 23:02
psSAR1g [W/Kg]	0.397	0.408
psSAR10g [W/Kg]	0.265	0.262
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.4
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L26.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	831.500	9.61	41.8	0.915

Hardware Setup

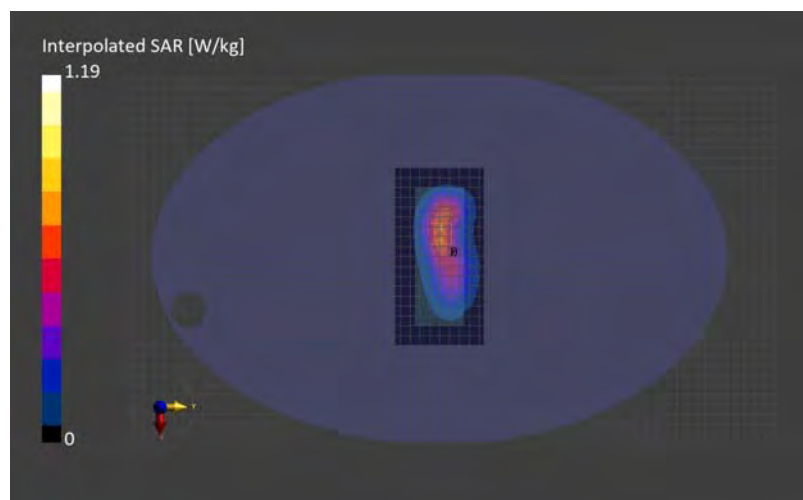
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-09, 16:42	2024-08-09, 16:50
psSAR1g [W/Kg]	0.608	0.580
psSAR10g [W/Kg]	0.398	0.369
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.3
Dist 3dB Peak [mm]	-	15.7



Plot No. L38.F1

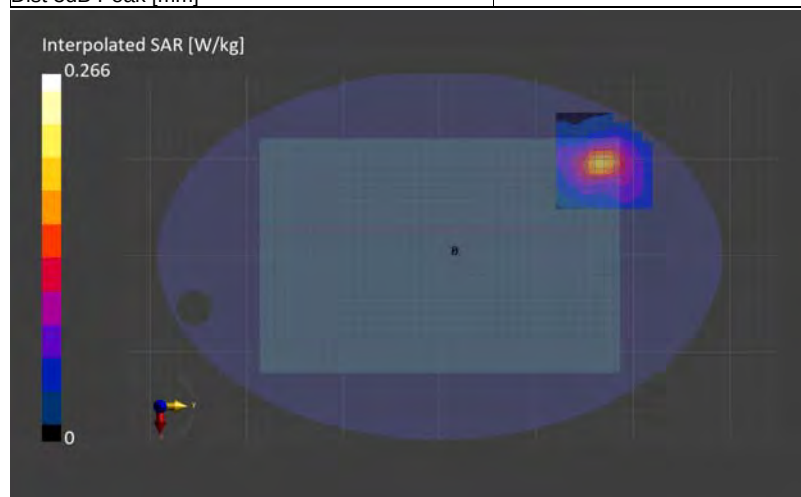
SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 13.00	2595.000	7.02	37.7	1.80

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-24, 18:34	2024-07-24, 18:43
psSAR1g [W/Kg]	0.156	0.154
psSAR10g [W/Kg]	0.085	0.085
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	82.0
Dist 3dB Peak [mm]	-	22.1



Plot No. L38.R1

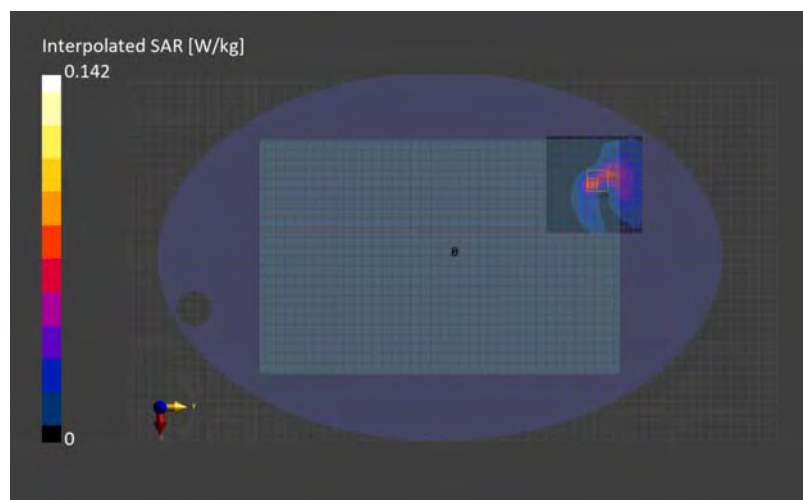
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	2595.000	7.67	39.7	1.95

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-02	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-09-02, 11:29	2024-09-02, 11:38
psSAR1g [W/Kg]	0.067	0.066
psSAR10g [W/Kg]	0.030	0.029
Power Drift [dB]	-0.01	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	80.8
Dist 3dB Peak [mm]	-	6.5



Plot No. L38.R10

SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	2595.000	7.67	38.6	1.96

Hardware Setup

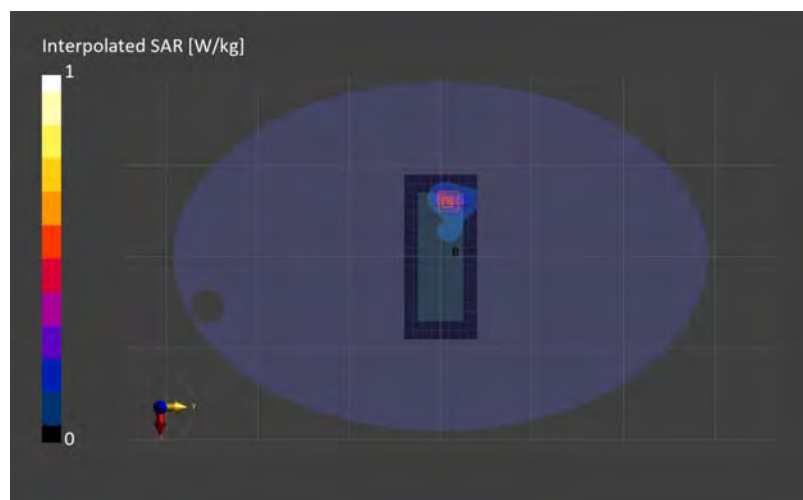
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-22	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-23, 01:30	2024-08-23, 01:45
psSAR1g [W/Kg]	0.394	0.409
psSAR10g [W/Kg]	0.177	0.173
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	75.7
Dist 3dB Peak [mm]	-	6.8



Plot No. L41.F1

SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 13.00	2680.000	7.02	37.6	1.86

Hardware Setup

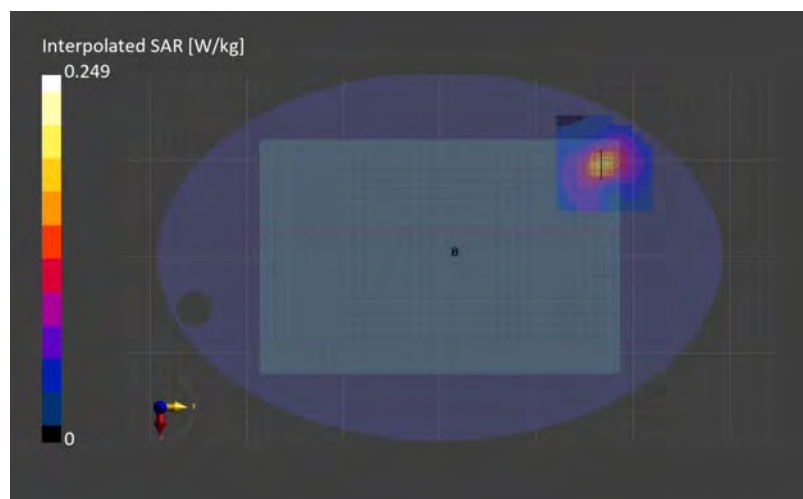
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-07-24	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-24, 20:13	2024-07-24, 20:22
psSAR1g [W/Kg]	0.150	0.144
psSAR10g [W/Kg]	0.079	0.077
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	82.5
Dist 3dB Peak [mm]	-	15.9



Plot No. L41.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	2680.000	7.67	39.6	2.02

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-02	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-09-02, 11:07	2024-09-02, 11:14
psSAR1g [W/Kg]	0.046	0.047
psSAR10g [W/Kg]	0.022	0.022
Power Drift [dB]	0.16	-0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	78.5
Dist 3dB Peak [mm]	-	9.0



Plot No. L41.R10

SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	2680.000	7.67	38.4	2.03

Hardware Setup

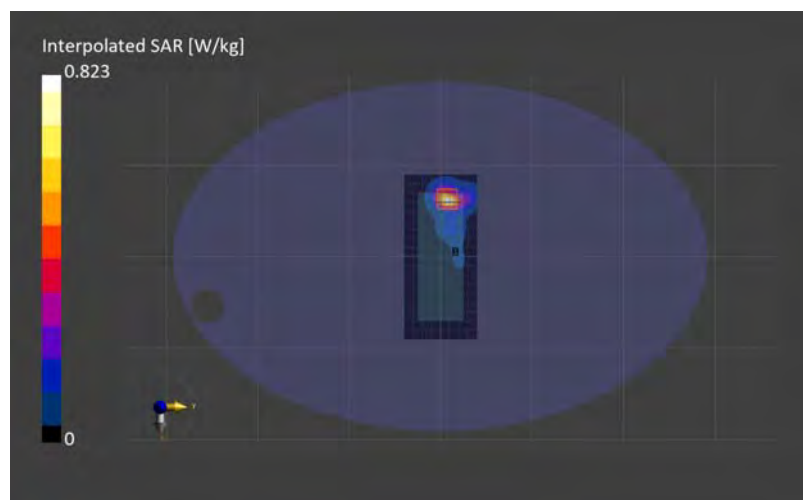
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-22	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 80.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-22, 23:21	2024-08-22, 23:40
psSAR1g [W/Kg]	0.362	0.368
psSAR10g [W/Kg]	0.153	0.153
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	79.6
Dist 3dB Peak [mm]	-	7.1



Plot No. L48.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	3646.700	6.68	37.1	2.92

Hardware Setup

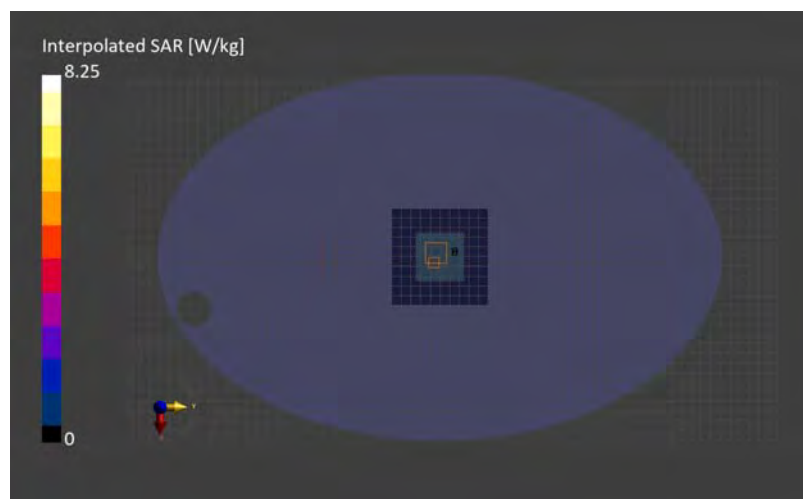
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-07	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.2
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-08, 07:29	2024-08-08, 08:58
psSAR1g [W/Kg]	0.006	0.002
psSAR10g [W/Kg]	0.002	0
Power Drift [dB]	-0.20	0.20
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	20.8
Dist 3dB Peak [mm]	-	5.6



Plot No. L48.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	3646.700	6.68	36.3	2.83

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 23:20	2024-08-05, 23:27
psSAR1g [W/Kg]	0.011	0.01
psSAR10g [W/Kg]	0.004	0.003
Power Drift [dB]	0.20	0.11
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	57.1
Dist 3dB Peak [mm]	-	5.9



Plot No. L48.R10

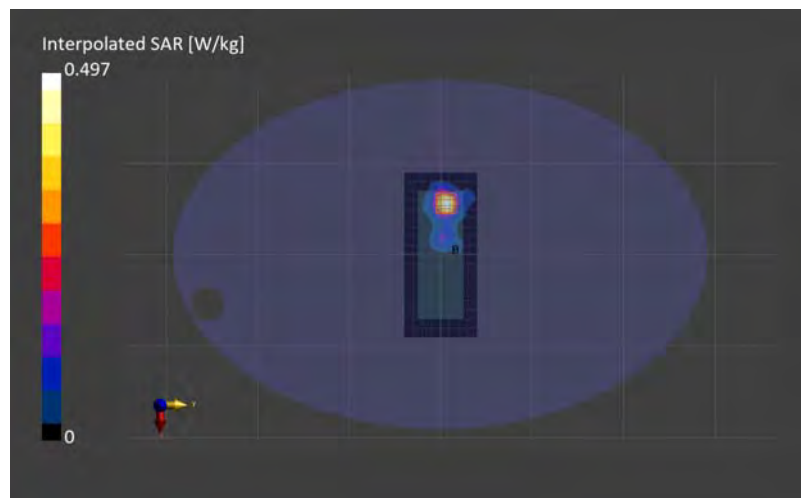
SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	3646.700	6.93	36.7	2.85

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-22	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-23, 01:15	2024-08-23, 01:23
psSAR1g [W/Kg]	0.161	0.170
psSAR10g [W/Kg]	0.063	0.059
Power Drift [dB]	0.03	0.04
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	74.3
Dist 3dB Peak [mm]	-	6.0



Plot No. L66.F1

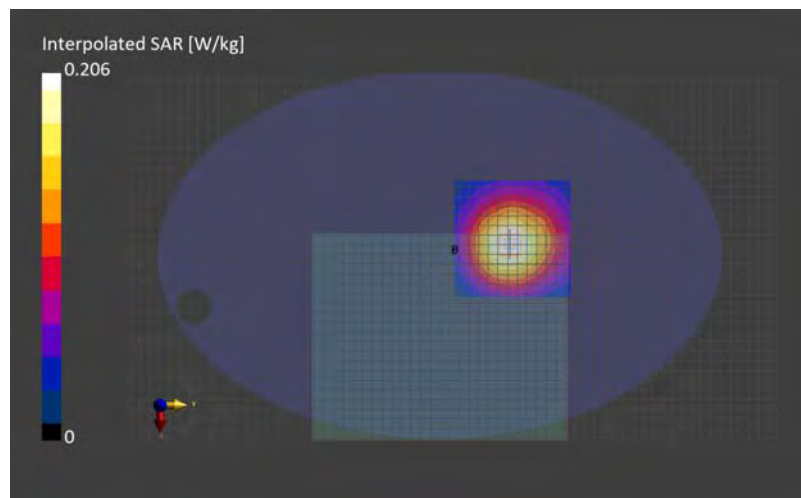
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1770.000	8.27	40.8	1.36

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-22, 19:37	2024-07-22, 19:52
psSAR1g [W/Kg]	0.125	0.132
psSAR10g [W/Kg]	0.080	0.089
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.1
Dist 3dB Peak [mm]	-	> 15.0



Plot No. L66.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1770.000	8.27	40.4	1.39

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 18:58	2024-08-01, 19:05
psSAR1g [W/Kg]	0.380	0.446
psSAR10g [W/Kg]	0.212	0.238
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.2
Dist 3dB Peak [mm]	-	10.2



Plot No. L66.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1745.000	8.27	39.8	1.33

Hardware Setup

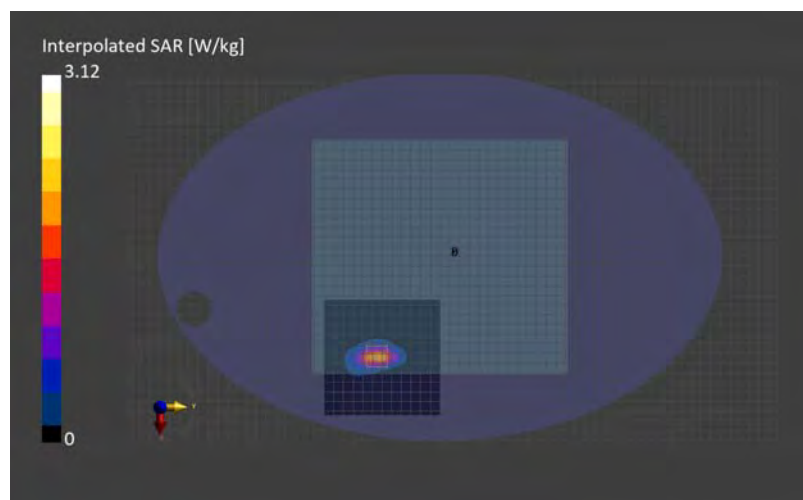
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-30	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-31, 08:02	2024-07-31, 08:09
psSAR1g [W/Kg]	1.65	1.54
psSAR10g [W/Kg]	0.819	0.759
Power Drift [dB]	0.04	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	77.5
Dist 3dB Peak [mm]	-	7.3



Plot No. ULCA7-F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 13.00	2510.000	7.67	40.8	1.89

Hardware Setup

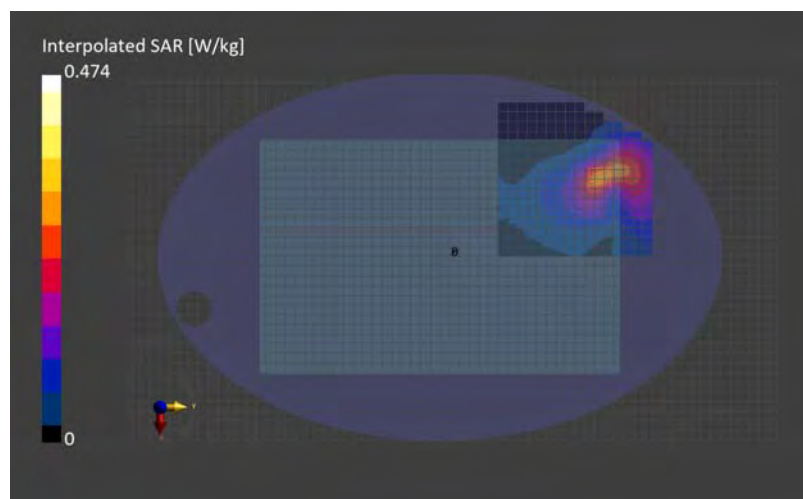
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-04	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-04, 17:36	2024-09-04, 17:43
psSAR1g [W/Kg]	0.261	0.277
psSAR10g [W/Kg]	0.145	0.154
Power Drift [dB]	-0.20	0.12
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	85.2
Dist 3dB Peak [mm]	-	17.0



Plot No. ULCA41-F1

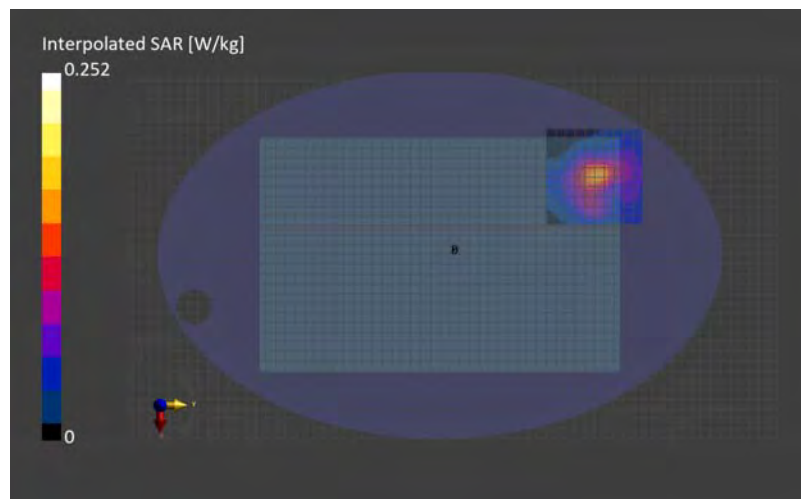
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 13.00	2680.000	7.67	40.5	2.04

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-04	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-09-04, 15:26	2024-09-04, 15:33
psSAR1g [W/Kg]	0.142	0.143
psSAR10g [W/Kg]	0.076	0.077
Power Drift [dB]	-0.04	0.08
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.4
Dist 3dB Peak [mm]	-	14.5



Plot No. ULCA7-R1

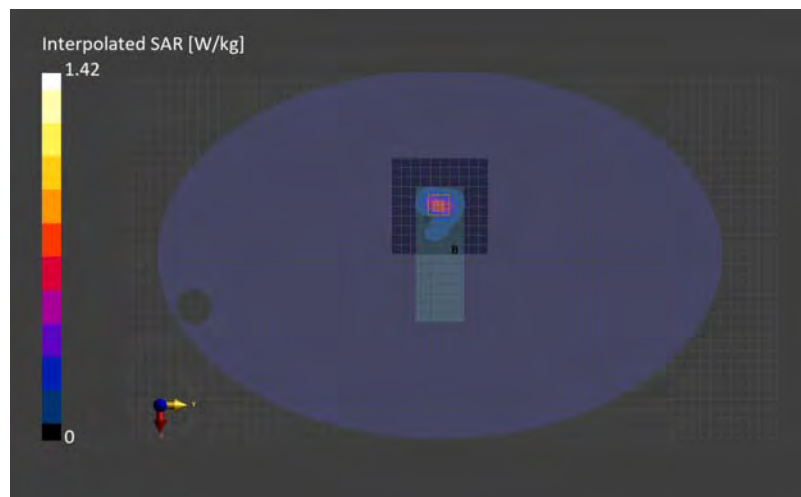
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	2510.000	7.67	40.7	1.89

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge:, 2024-09-05	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-09-05, 14:36	2024-09-05, 14:43
psSAR1g [W/Kg]	0.614	0.611
psSAR10g [W/Kg]	0.264	0.256
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	79.6
Dist 3dB Peak [mm]	-	6.8



Plot No. ULCA7-R2

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	2510.000	7.67	40.8	1.89

Hardware Setup

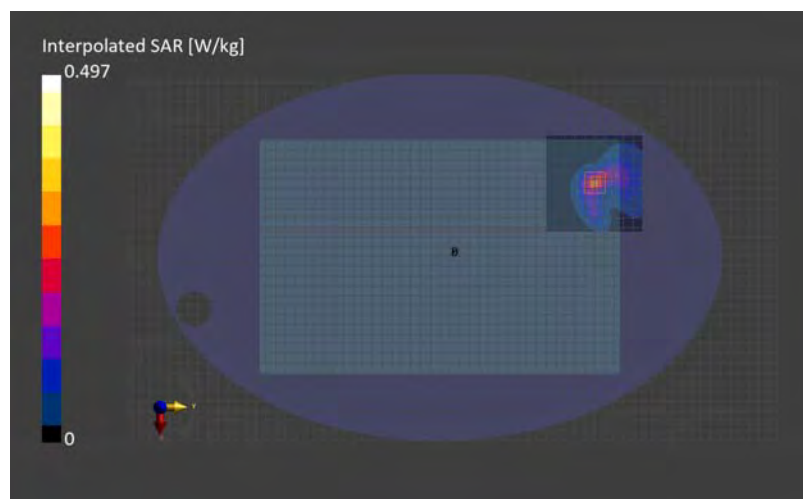
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge, 2024-09-04	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-09-04, 09:58	2024-09-04, 10:04
psSAR1g [W/Kg]	0.242	0.243
psSAR10g [W/Kg]	0.109	0.108
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	81.0
Dist 3dB Peak [mm]	-	7.9



Plot No. ULCA41-R1

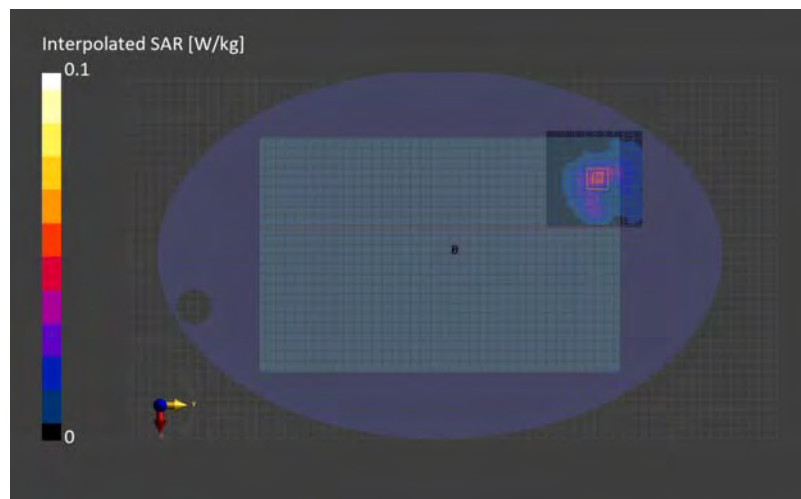
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	2680.000	7.67	40.5	2.04

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-04	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-09-04, 12:27	2024-09-04, 12:34
psSAR1g [W/Kg]	0.047	0.045
psSAR10g [W/Kg]	0.023	0.021
Power Drift [dB]	-0.07	0.20
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.3
Dist 3dB Peak [mm]	-	10.3



Plot No. ULCA41-R2

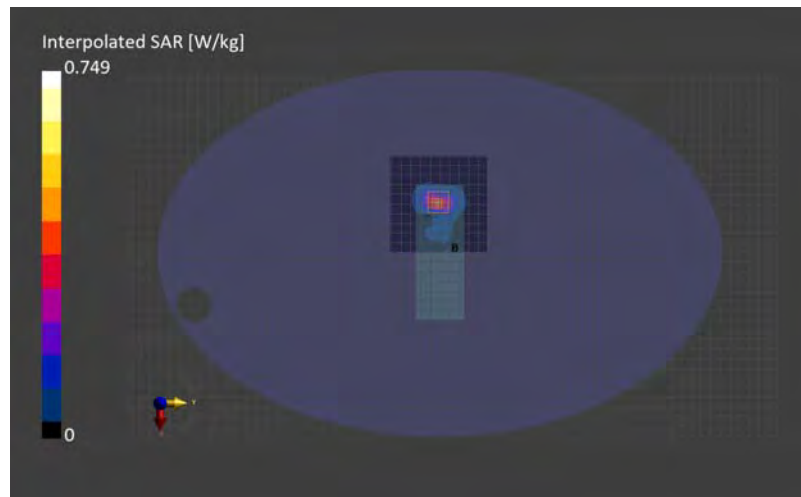
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	2680.000	7.67	40.5	2.03

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-09-05	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn509, 2024-08-09

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-09-05, 14:09	2024-09-05, 14:16
psSAR1g [W/Kg]	0.335	0.329
psSAR10g [W/Kg]	0.143	0.139
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.1
Dist 3dB Peak [mm]	-	7.0



Plot No. n2.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1860.000	7.91	40.6	1.42

Hardware Setup

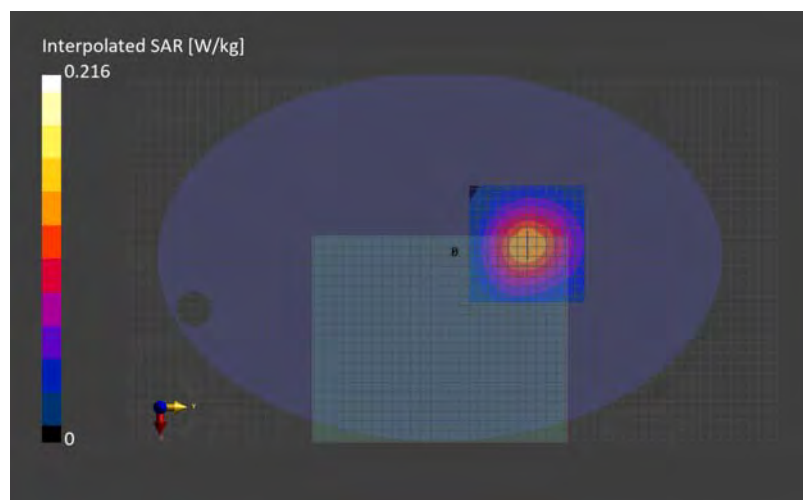
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-22, 13:10	2024-07-22, 13:25
psSAR1g [W/Kg]	0.123	0.135
psSAR10g [W/Kg]	0.078	0.089
Power Drift [dB]	-0.03	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.7
Dist 3dB Peak [mm]	-	> 15.0



Plot No. n2.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1860.000	7.91	39.5	1.41

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 19:15	2024-08-05, 19:21
psSAR1g [W/Kg]	0.091	0.118
psSAR10g [W/Kg]	0.051	0.062
Power Drift [dB]	-0.00	-0.03
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	81.3
Dist 3dB Peak [mm]	-	9.4



Plot No. n2.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1860.000	7.91	39.2	1.41

Hardware Setup

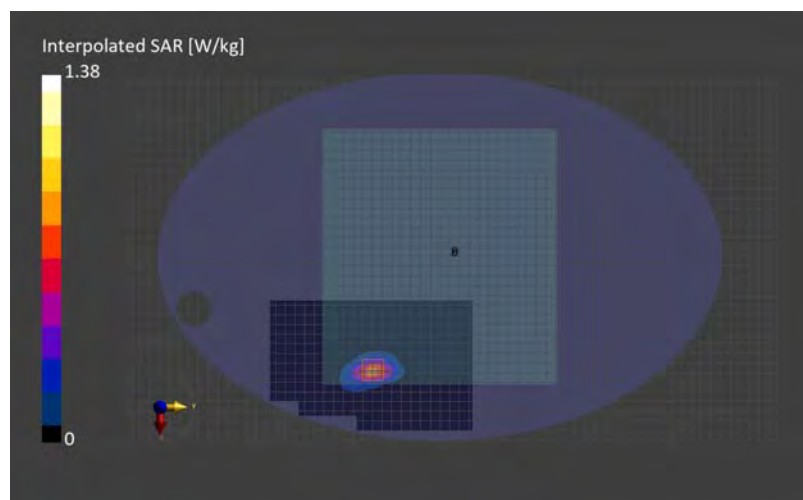
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-19	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-19, 15:46	2024-08-19, 15:53
psSAR1g [W/Kg]	0.727	0.693
psSAR10g [W/Kg]	0.367	0.343
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	78.9
Dist 3dB Peak [mm]	-	8.1



Plot No. n5.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	836.500	9.61	41.8	0.917

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-08, 20:48	2024-08-08, 21:20
psSAR1g [W/Kg]	0.292	0.347
psSAR10g [W/Kg]	0.154	0.142
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	52.8
Dist 3dB Peak [mm]	-	6.4



Plot No. n5.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	836.500	9.61	42.2	0.933

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 14:27	2024-08-01, 14:34
psSAR1g [W/Kg]	0.179	0.183
psSAR10g [W/Kg]	0.118	0.118
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	83.3
Dist 3dB Peak [mm]	-	21.3



Plot No. n5.R10

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	836.500	9.61	41.8	0.917

Hardware Setup

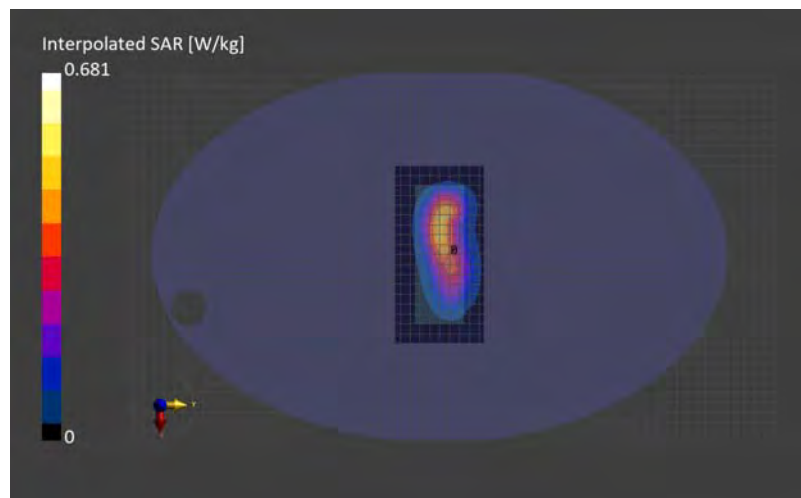
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-08	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-09, 11:22	2024-08-09, 11:28
psSAR1g [W/Kg]	0.412	0.388
psSAR10g [W/Kg]	0.269	0.248
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	82.3
Dist 3dB Peak [mm]	-	12.0



Plot No. n66.F1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP, 63.00	1720.000	8.27	40.9	1.33

Hardware Setup

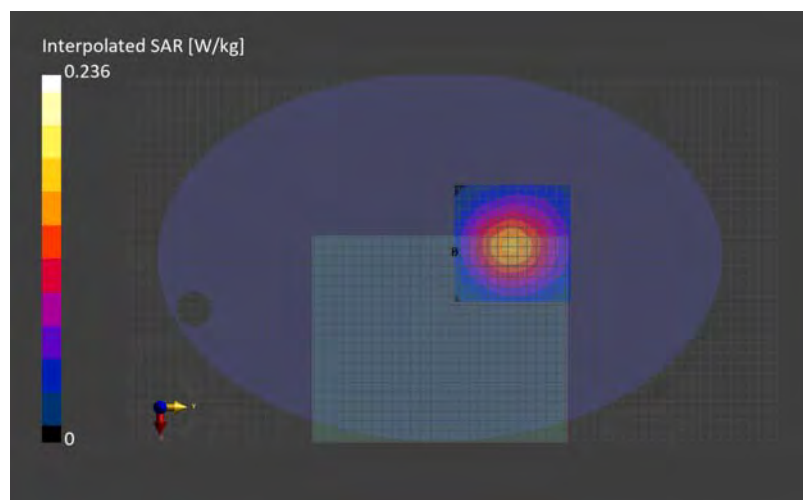
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-22	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn509, 2023-08-04

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-07-22, 14:30	2024-07-22, 14:45
psSAR1g [W/Kg]	0.138	0.150
psSAR10g [W/Kg]	0.089	0.101
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	84.5
Dist 3dB Peak [mm]	-	> 15.0



Plot No. n66.R1

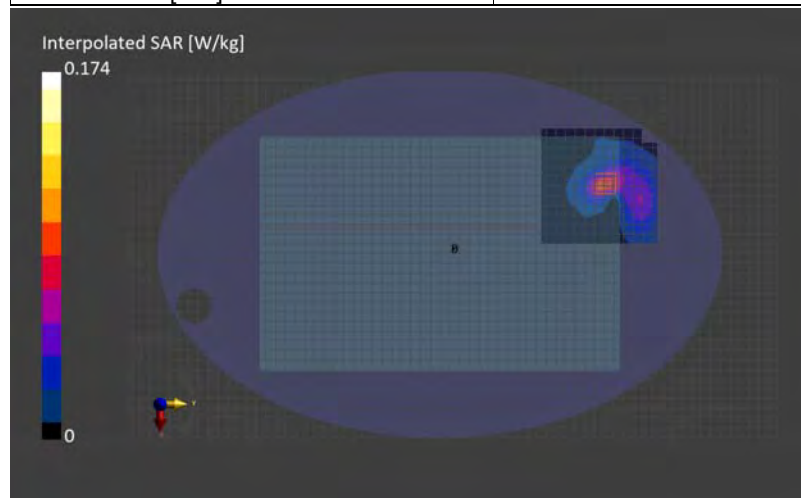
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	1745.000	8.27	40.4	1.37

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-01	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-01, 13:37	2024-08-01, 13:44
psSAR1g [W/Kg]	0.080	0.093
psSAR10g [W/Kg]	0.044	0.049
Power Drift [dB]	-0.03	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	86.5
Dist 3dB Peak [mm]	-	9.4



Plot No. n66.R10

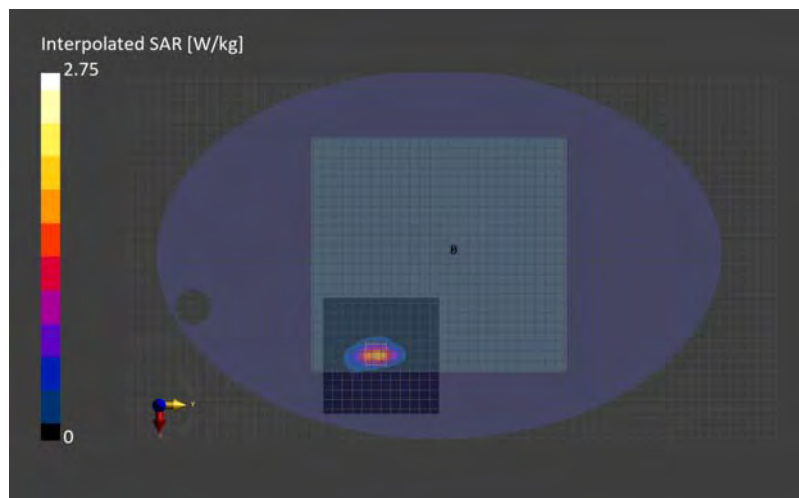
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE LEFT, 0.00	1745.000	8.27	39.8	1.33

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-07-30	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		-
Scan	Area Scan	Zoom Scan
Date	2024-07-31, 14:51	2024-07-31, 14:58
psSAR1g [W/Kg]	1.47	1.36
psSAR10g [W/Kg]	0.730	0.673
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	76.7
Dist 3dB Peak [mm]	-	7.2



Plot No. n77A.F1

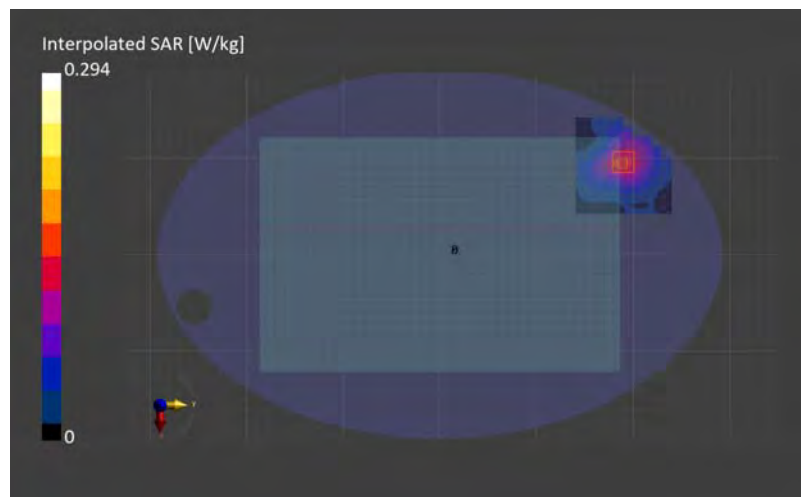
SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 13.00	3500.010	6.35	37.1	2.90

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HSL3-6GHz Charge: 2024-07-17	EX3DV4 - SN3917, 2024-05-21	DAE4 Sn1369, 2024-05-15

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-07-17, 19:55	2024-07-17, 20:03
psSAR1g [W/Kg]	0.126	0.130
psSAR10g [W/Kg]	0.065	0.064
Power Drift [dB]	0.03	0.01
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	76.6
Dist 3dB Peak [mm]	-	18.5



Plot No. n77A.R1

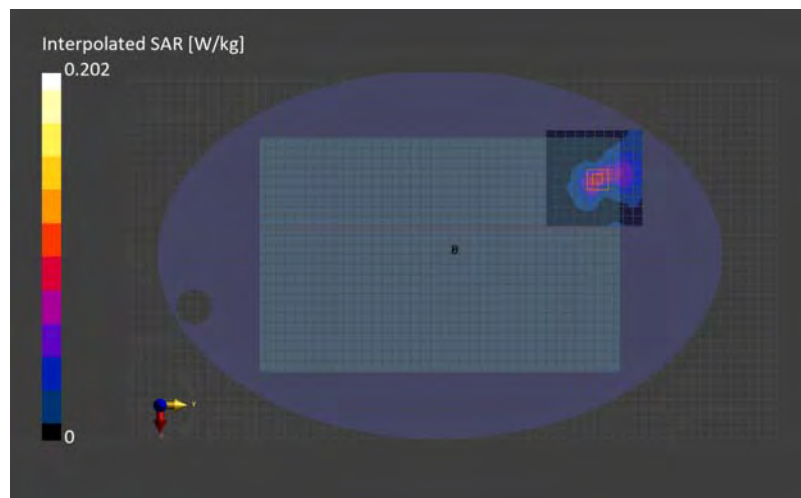
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	3500.010	6.74	36.6	2.71

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge:22024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 14:32	2024-08-05, 14:39
psSAR1g [W/Kg]	0.074	0.085
psSAR10g [W/Kg]	0.033	0.036
Power Drift [dB]	0.08	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	75.8
Dist 3dB Peak [mm]	-	10.0



Plot No. n77A.R10

SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	3499.995	6.91	37.5	2.75

Hardware Setup

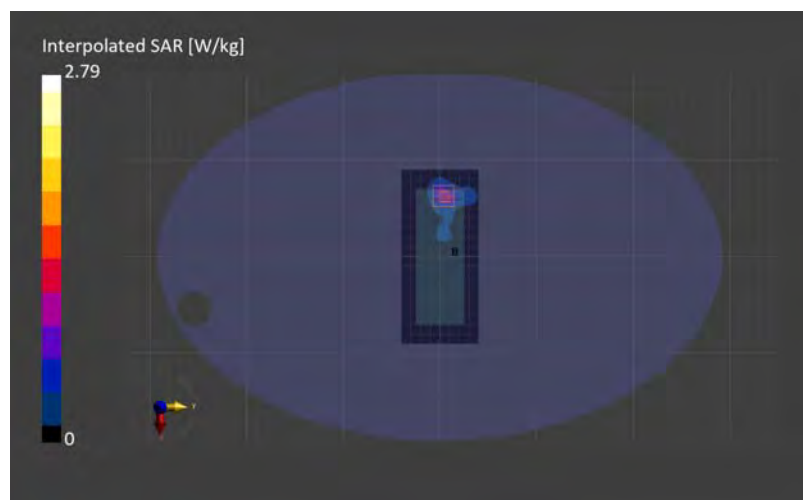
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-20	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-20, 14:07	2024-08-20, 14:15
psSAR1g [W/Kg]	0.898	0.971
psSAR10g [W/Kg]	0.360	0.346
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	72.7
Dist 3dB Peak [mm]	-	6.4



Plot No. n77C.F1

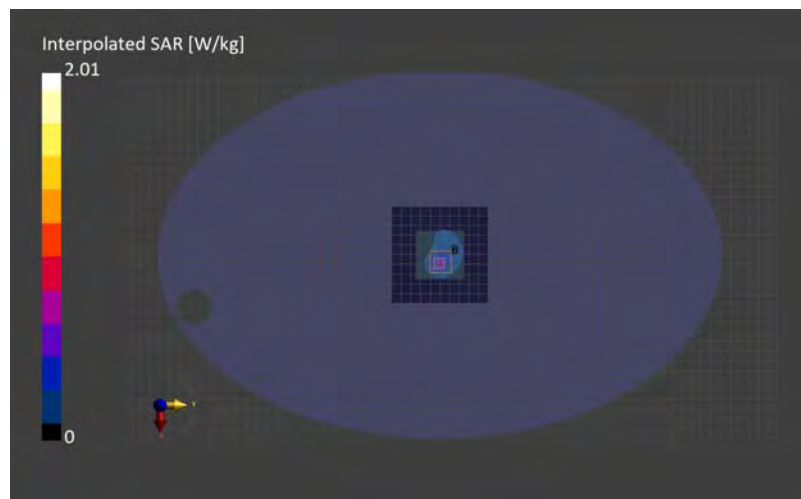
SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
FRONT, 0.00	3840.000	6.58	36.8	3.12

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-07	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup		
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured
Measurement Results		
Scan	Area Scan	Zoom Scan
Date	2024-08-08, 14:56	2024-08-08, 15:06
psSAR1g [W/Kg]	0.501	0.515
psSAR10g [W/Kg]	0.188	0.191
Power Drift [dB]	0.12	0.02
Power Scaling	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]	-	78.6
Dist 3dB Peak [mm]	-	8.1



Plot No. n77C.R1

SAR1 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
BACK, 0.00	3840.000	6.58	36.0	2.99

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 Charge: 2024-08-05	EX3DV4 - SN7372, 2024-06-18	DAE4 Sn518, 2024-04-10

Scans Setup	-	-
Scan	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 100.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured
Measurement Results	-	-
Scan	Area Scan	Zoom Scan
Date	2024-08-05, 15:51	2024-08-05, 15:58
psSAR1g [W/Kg]	0.084	0.095
psSAR10g [W/Kg]	0.033	0.034
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	73.3
Dist 3dB Peak [mm]	-	8.7



Plot No. n77C.R10

SAR2 Exposure Conditions

Position, Test Distance [mm]	Frequency [MHz]	Conversion Factor	TSL Permittivity	TSL Conductivity [S/m]
EDGE TOP TILT, 0.00	3840.000	6.79	36.9	3.08

Hardware Setup

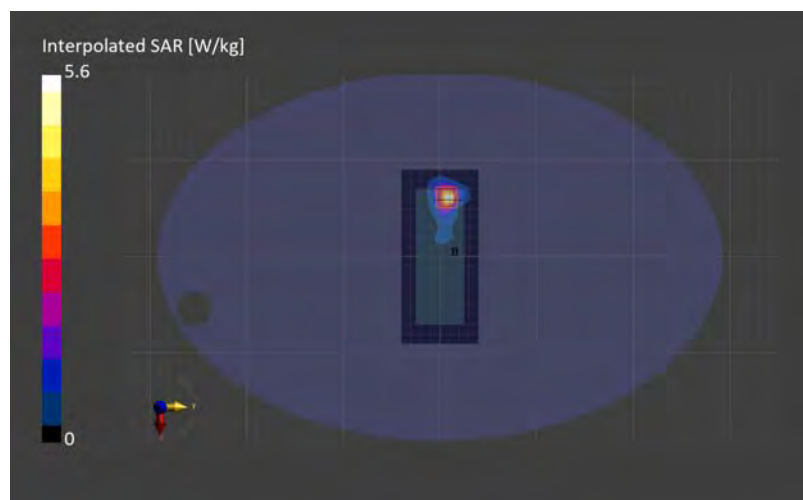
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 Charge: 2024-08-20	EX3DV4 - SN3825, 2024-07-10	DAE4 Sn1372, 2024-03-12

Scans Setup

Scan	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Scan	Area Scan	Zoom Scan
Date	2024-08-20, 14:52	2024-08-20, 14:59
psSAR1g [W/Kg]	1.82	1.80
psSAR10g [W/Kg]	0.649	0.614
Power Drift [dB]	-0.04	-0.00
Power Scaling	Disabled	Disabled
TSL Correction	Positive only	Positive only
M2/M1 [%]	-	71.4
Dist 3dB Peak [mm]	-	7.1



Appendix Simultaneous transmission SAR test exclusion considerations

Sum of SAR

Pink cell: 1 g SAR / Blue cell: 10 g SAR

Combination	Position								
	Full				Red				
	1g SAR				1g SAR	10g SAR			
	Back 13 mm	Left 52 mm	Top 63 mm	Front 0mm	Back 0 mm	Left 0 mm	Top 0 mm	Top tilt 0mm	Rear 0mm
ULCA1 2A - 5A	0.319	0.041	0.177	0.490	0.791	1.086	0.686	1.113	1.002
ULCA2 2A - 12 A	0.224	0.035	0.169	0.464	0.425	0.397	0.540	0.542	0.281
ULCA3 2A - 13 A	0.311	0.051	0.175	0.484	0.698	1.219	0.872	1.220	1.081
ULCA4 4A - 5A	0.294	0.172	0.192	0.454	1.142	1.313	1.048	1.490	1.074
ULCA5 4A - 12 A	0.199	0.166	0.184	0.428	0.776	1.300	1.383	1.761	0.988
ULCA6 4A - 13 A	0.286	0.182	0.190	0.448	1.049	1.446	1.234	1.597	1.153
ULCA7 5A - 7A	0.558	0.152	0.154	0.493	0.898	0.696	0.689	0.856	0.797
ULCA8 5A - 66A	0.304	0.144	0.185	0.494	1.121	1.307	1.051	1.402	1.121
ULCA9 12A - 66A	0.209	0.138	0.177	0.468	0.755	1.294	1.386	1.673	1.035
ULCA10 13A - 66A	0.296	0.154	0.183	0.488	1.028	1.440	1.237	1.509	1.200
ENDC1 LTE Band 5 + NR Band n2	0.301	0.156	0.200	0.483	0.685	0.742	0.540	0.885	0.769
ENDC2 LTE Band 12 + NR Band n2	0.206	0.150	0.192	0.457	0.319	0.729	0.875	1.156	0.683
ENDC3 LTE Band 13 + NR Band n2	0.293	0.166	0.198	0.477	0.592	0.875	0.726	0.992	0.848
ENDC4 LTE Band 14 + NR Band n2	0.298	0.162	0.203	0.484	0.654	0.851	0.700	1.026	0.823
ENDC5 LTE Band 48 + NR Band n2	0.138	0.141	0.183	0.066	0.141	0.419	0.214	0.452	0.312
ENDC6 LTE Band 2 + NR Band n5	0.305	0.056	0.194	0.487	0.433	0.919	0.498	0.870	0.769
ENDC7 LTE Band 7 + NR Band n5	0.544	0.167	0.171	0.490	0.540	0.529	0.501	0.613	0.564
ENDC8 LTE Band 66 + NR Band n5	0.290	0.159	0.202	0.491	0.763	1.140	0.863	1.159	0.888
ENDC9 LTE Band 5 + NR Band n66	0.330	0.161	0.214	0.459	0.659	1.103	0.842	1.209	0.939
ENDC10 LTE Band 12 + NR Band n66	0.235	0.155	0.206	0.433	0.293	1.090	1.177	1.480	0.853
ENDC11 LTE Band 13 + NR Band n66	0.322	0.171	0.212	0.453	0.566	1.236	1.028	1.316	1.018
ENDC12 LTE Band 14 + NR Band n66	0.327	0.167	0.217	0.460	0.628	1.212	1.002	1.350	0.993
ENDC13 LTE Band 48 + NR Band n66	0.167	0.146	0.197	0.042	0.115	0.780	0.516	0.776	0.482
ENDC 14 LTE Band 2 + NR Band n77	0.335	0.153	0.356	0.765	0.340	0.769	0.643	0.978	0.903
ENDC 15 LTE Band 5 + NR Band n77	0.348	0.144	0.215	1.115	0.663	0.413	0.753	0.883	0.871
ENDC 16 LTE Band 7 + NR Band n77	0.574	0.264	0.333	0.768	0.447	0.379	0.646	0.721	0.698
ENDC 17 LTE Band 12 + NR Band n77	0.253	0.138	0.207	1.089	0.297	0.400	1.088	1.154	0.785
ENDC 18 LTE Band 13 + NR Band n77	0.340	0.154	0.213	1.109	0.570	0.546	0.939	0.990	0.950
ENDC 19 LTE Band 14 + NR Band n77	0.345	0.150	0.218	1.116	0.632	0.522	0.913	1.024	0.925
ENDC 20 LTE Band 41 + NR Band n77	0.390	0.183	0.252	0.770	0.170	0.157	0.442	0.582	0.560
ENDC 21 LTE Band 66 + NR Band n77	0.320	0.256	0.364	0.769	0.670	0.990	1.008	1.267	1.022

Conclusion

The sum of the 1 g / 10 g SAR values are all less than 1.6 W/kg and 4.0 W/kg respectively. Therefore, the SPLSR is not performed.
Complied.

Appendix Trigger distance verification data

Table: Trigger distance back position

Distance to / from phantom [mm]		9	10	11	12	13	14	15	16	17	18	19
toward phantom	WCDMA II	17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA IV	20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
from phantom		20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA V	22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
toward phantom	LTE B2	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B4	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B5	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B7	15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B12	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B13	22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B14	22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
from phantom		22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B17	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B25	15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
from phantom		15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B26	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B38	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B41	14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
from phantom		14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B48	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
from phantom		9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
toward phantom	LTE B66	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	NR n2	14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
from phantom		14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n5	18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
from phantom		18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n66	15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n77	16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7
from phantom		16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7

Unit: dBm

Table: Trigger distance top position

Distance to / from phantom [mm]		59	60	61	62	63	64	65	66	67	68	69
toward phantom	WCDMA II	17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA IV	20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
from phantom		20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA V	22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
toward phantom	LTE B2	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B4	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B5	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B7	15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B12	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B13	22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B14	22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
from phantom		22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B17	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B25	15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
from phantom		15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B26	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B38	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B41	14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
from phantom		14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B48	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
from phantom		9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
toward phantom	LTE B66	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	NR n2	14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
from phantom		14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n5	18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
from phantom		18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n66	15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n77	16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7
from phantom		16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7

Unit: dBm

Table: Trigger distance left position

Distance to / from phantom [mm]		48	49	50	51	52	53	54	55	56	57	58
toward phantom	WCDMA II	17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA IV	20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
from phantom		20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA V	22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
toward phantom	LTE B2	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B4	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B5	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B7	15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B12	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B13	22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B14	22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
from phantom		22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B17	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B25	15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
from phantom		15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B26	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B38	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B41	14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
from phantom		14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B48	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
from phantom		9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
toward phantom	LTE B66	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	NR n2	14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
from phantom		14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n5	18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
from phantom		18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n66	15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n77	16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7
from phantom		16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7

Unit: dBm

Table: Trigger distance rear position

Distance to / from phantom [mm]		26	27	28	29	30	31	32	33	34	35	36
toward phantom	WCDMA II	17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA IV	20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
from phantom		20.0	20.0	20.0	20.0	20.0	20.0	23.5	23.5	23.5	23.5	23.5
toward phantom	WCDMA V	22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5
toward phantom	LTE B2	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B4	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B5	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B7	15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B12	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B13	22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
from phantom		22.5	22.5	22.5	22.5	22.5	22.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B14	22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
from phantom		22.3	22.3	22.3	22.3	22.3	22.3	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B17	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
from phantom		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B25	15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
from phantom		15.0	15.0	15.0	15.0	15.0	15.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B26	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
from phantom		21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B38	16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
from phantom		16.5	16.5	16.5	16.5	16.5	16.5	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B41	14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
from phantom		14.9	14.9	14.9	14.9	14.9	14.9	23.0	23.0	23.0	23.0	23.0
toward phantom	LTE B48	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
from phantom		9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
toward phantom	LTE B66	17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
from phantom		17.0	17.0	17.0	17.0	17.0	17.0	23.0	23.0	23.0	23.0	23.0
toward phantom	NR n2	14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
from phantom		14.1	14.1	14.1	14.1	14.1	14.1	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n5	18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
from phantom		18.6	18.6	18.6	18.6	18.6	18.6	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n66	15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
from phantom		15.7	15.7	15.7	15.7	15.7	15.7	23.7	23.7	23.7	23.7	23.7
toward phantom	NR n77	16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7
from phantom		16.2	16.2	16.2	16.2	16.2	16.2	23.7	23.7	23.7	23.7	23.7

Unit: dBm

Appendix Probe calibration record
EX3DV4 – SN:3825

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client **UL Japan Head Office**
Ise, Japan

Certificate No. **EX-3825_Jul24**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3825**

Calibration procedure(s) **QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,
QA CAL-25.v8
Calibration procedure for dosimetric E-field probes**

Calibration date **July 10, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%.
Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Jun-24 (No. EX3-7349_Jun24)	Jun-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-24)	In house check: Jun-26
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	
Issued: July 10, 2024			
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

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July 10, 2024

Parameters of Probe: EX3DV4 - SN:3825

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.42	0.39	0.44	±10.1%
DCP (mV) ^B	99.7	102.4	99.3	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	142.6	±0.8%	±4.7%
		Y	0.00	0.00	1.00		131.4		
		Z	0.00	0.00	1.00		118.9		
10352	Pulse Waveform (200Hz, 10%)	X	36.00	98.00	23.00	10.00	60.0	±2.6%	±9.6%
		Y	20.00	90.82	20.62		60.0		
		Z	20.00	93.01	22.53		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	91.51	20.05	6.99	80.0	±1.4%	±9.6%
		Y	20.00	93.60	20.87		80.0		
		Z	20.00	93.44	21.48		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	93.30	19.41	3.98	95.0	±1.3%	±9.6%
		Y	20.00	100.68	22.94		95.0		
		Z	20.00	95.24	20.84		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	95.95	19.39	2.22	120.0	±1.3%	±9.6%
		Y	20.00	111.58	26.70		120.0		
		Z	20.00	98.11	20.84		120.0		
10387	QPSK Waveform, 1 MHz	X	1.59	64.51	14.09	1.00	150.0	±1.9%	±9.6%
		Y	1.67	67.13	15.39		150.0		
		Z	1.68	64.94	14.48		150.0		
10388	QPSK Waveform, 10 MHz	X	2.07	66.43	14.77	0.00	150.0	±1.0%	±9.6%
		Y	2.17	68.12	15.92		150.0		
		Z	2.19	67.15	15.12		150.0		
10396	64-QAM Waveform, 100 kHz	X	2.87	69.45	18.01	3.01	150.0	±0.7%	±9.6%
		Y	2.84	71.29	19.16		150.0		
		Z	3.12	70.21	18.40		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.42	66.46	15.30	0.00	150.0	±1.0%	±9.6%
		Y	3.47	67.25	15.85		150.0		
		Z	3.52	66.86	15.53		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.85	65.37	15.28	0.00	150.0	±2.3%	±9.6%
		Y	4.77	65.78	15.56		150.0		
		Z	4.97	65.60	15.44		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Linearization parameter uncertainty for maximum specified field strength.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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July 10, 2024

Parameters of Probe: EX3DV4 - SN:3825

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 msV^{-2}	T2 msV^{-1}	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
x	49.5	365.98	34.83	12.45	0.63	5.03	1.27	0.27	1.01
y	37.7	272.22	33.50	12.20	0.18	5.05	1.95	0.00	1.01
z	55.1	410.27	35.32	16.65	0.69	5.06	0.91	0.41	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-31.6°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

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July 10, 2024

Parameters of Probe: EX3DV4 - SN:3825

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^A (mm)	Unc ^H (k = 2)
750	41.9	0.89	9.96	9.79	9.05	0.33	1.27	±11.0%
835	41.5	0.90	9.37	9.21	8.51	0.33	1.27	±11.0%
900	41.5	0.97	9.42	9.26	8.56	0.33	1.27	±11.0%
1750	40.1	1.37	8.24	8.10	7.49	0.33	1.27	±11.0%
1900	40.0	1.40	7.99	7.85	7.26	0.33	1.27	±11.0%
2450	39.2	1.80	7.58	7.45	6.89	0.34	1.27	±11.0%
2600	39.0	1.96	7.67	7.53	6.97	0.34	1.27	±11.0%
3500	37.9	2.91	6.91	6.79	6.28	0.34	1.27	±13.1%
3700	37.7	3.12	6.93	6.81	6.30	0.34	1.27	±13.1%
3900	37.5	3.32	6.79	6.67	6.17	0.35	1.27	±13.1%
4600	36.7	4.04	6.35	6.24	5.77	0.35	1.27	±13.1%
5250	35.9	4.71	5.64	5.55	5.13	0.31	1.27	±13.1%
5600	35.5	5.07	5.11	5.02	4.64	0.28	1.27	±13.1%
5800	35.3	5.27	5.12	5.04	4.66	0.26	1.27	±13.1%
5850	35.2	5.32	5.14	5.06	4.67	0.26	1.27	±13.1%

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

EX3DV4 - SN:3825

July 10, 2024

Parameters of Probe: EX3DV4 - SN:3825

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
6500	34.5	6.07	5.45	5.36	4.95	0.20	1.27	±18.6%

^C Frequency validity at 6.5 GHz is –600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

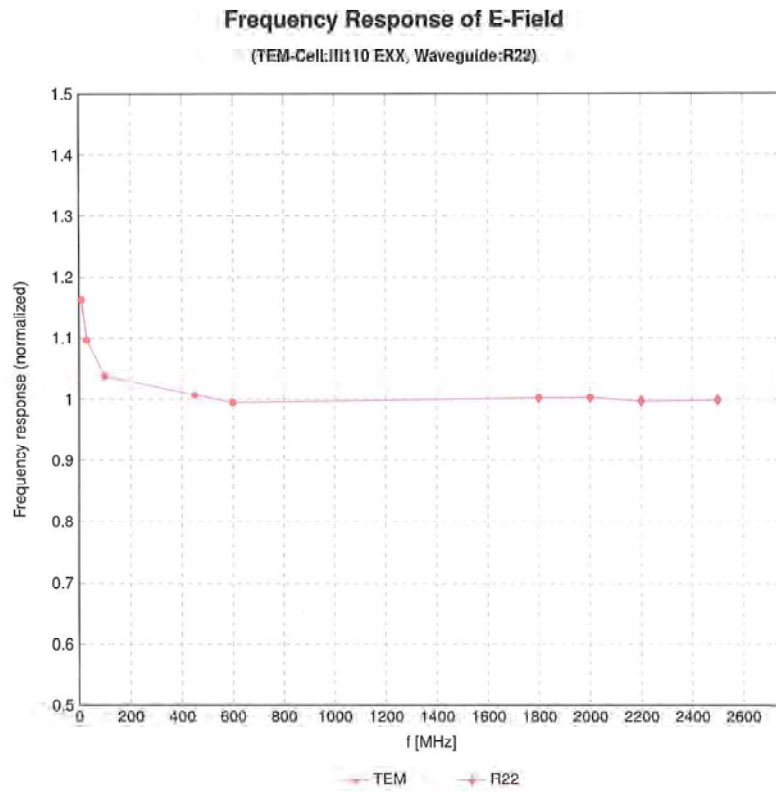
^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

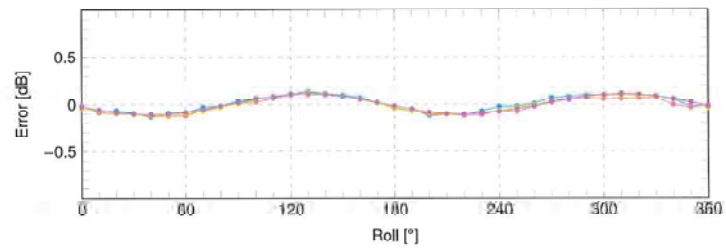
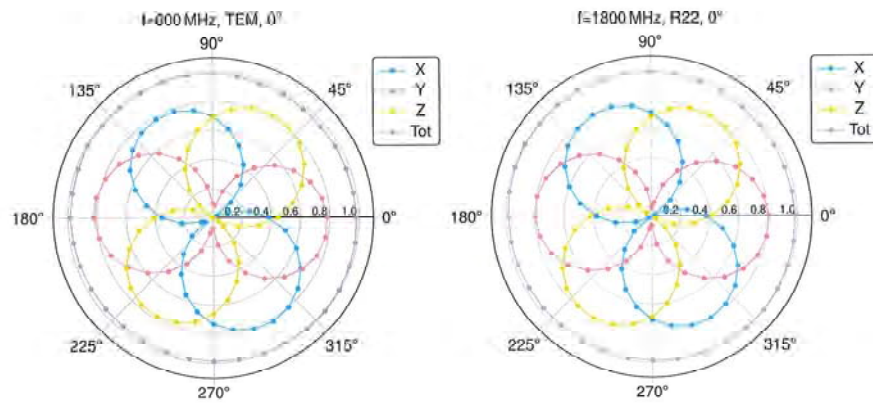
Certificate No: EX-3825_Jul24

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Receiving Pattern (ϕ), $\theta = 0^\circ$



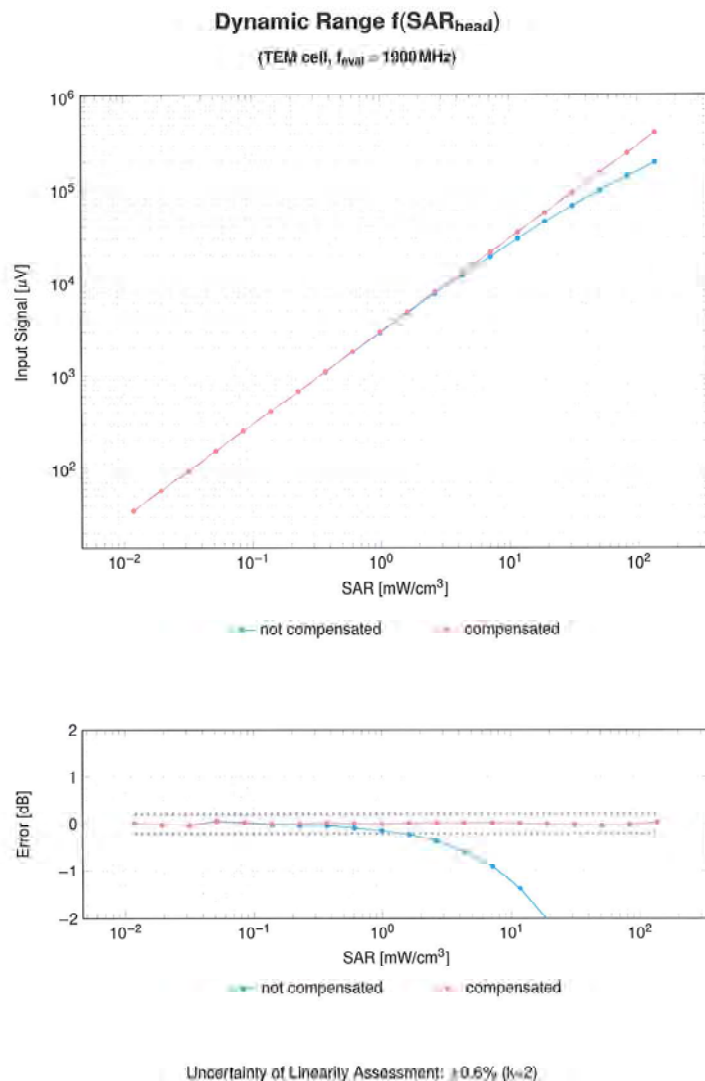
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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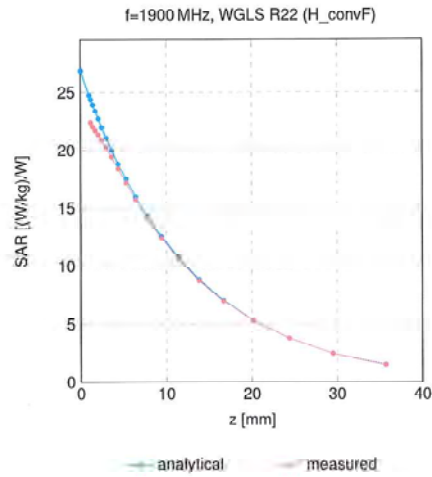
Certificate No: EX-3825_Jul24

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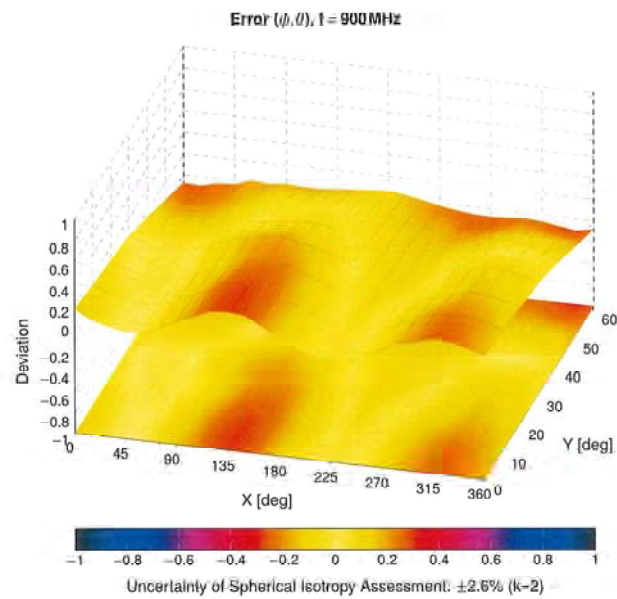
EX3DV4 - SN:3825

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Conversion Factor Assessment



Deviation from Isotropy in Liquid



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	0.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HS-PA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HS-PA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

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10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.79	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
10224	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.88	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Roll-off 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Roll-off 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	±9.6

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10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	iDEN 1:3	iDEN	10.51	±9.6
10314	AAA	iDEN 1:6	iDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100KHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAF	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAF	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAF	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CDDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	WLAN	8.19	±9.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6

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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10536	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
10540	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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10541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10580	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
10605	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAD	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAD	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10608	AAD	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

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10609	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAD	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAD	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

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10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6

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10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAF	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10818	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

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10829	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAE	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

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10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAC	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAE	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

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July 10, 2024

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10983	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAC	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAB	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAC	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAB	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAB	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAB	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAB	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAB	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAB	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAB	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAB	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAB	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAB	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAB	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAB	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAB	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAB	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAB	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

EX3DV4 – SN:7372

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
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Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client **MWF**
Yokohama, Japan

Certificate No. **EX-7372_Jun24**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7372**

Calibration procedure(s) **QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,
QA CAL-25.v8
Calibration procedure for dosimetric E-field probes**

Calibration date **June 18, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.
Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293674	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Claudio Leubler	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			
Issued: June 18, 2024			