

RADIO TEST REPORT

Test Report No.: 16314051H-C-R1

Customer	Japan Radio Co., Ltd.
Description of EUT	IT Controller
Model Number of EUT	JRN-440K
FCC ID	2AX5HJRN-440K
Test Regulation	FCC Part 22 FCC Part 24 FCC Part 27
Test Result	Complied
Issue Date	July 14, 2026
Remarks	-

Representative test engineerTakafumi Noguchi
Engineer**Approved by**Satofumi Matsuyama
Test report signatory

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# 27.0

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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	16314051H-C	July 9, 2026	-
1	16314051H-C-R1	July 14, 2026	4.1 Operating Mode(s) for GSM Corrected a typo: GRPS → GPRS 4.3 Operating Mode(s) for LTE Added note for 16QAM RB configuration. APPENDIX 1: Test data (Peak to Average power Ratio) Updated Peak to Average Power Ratio [dB]: - PCS 1900, EDGE(8PSK) (Page 58) - LTE Band 2, BW 10 MHz, 16QAM (Page 65) (Out of Band Emission (Conducted)) Updated frequency value (1852.5 MHz). (Page 118, 119) Updated Stop frequency (2500 MHz) in Spectrum Analyzer setting table. (Page 146 to 153)

Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	IEC	International Electrotechnical Commission
AC	Alternating Current	IEEE	Institute of Electrical and Electronics Engineers
AFH	Adaptive Frequency Hopping	IF	Intermediate Frequency
AM	Amplitude Modulation	ILAC	International Laboratory Accreditation Conference
Amp, AMP	Amplifier	ISED	Innovation, Science and Economic Development Canada
ANSI	American National Standards Institute	ISO	International Organization for Standardization
Ant, ANT	Antenna	JAB	Japan Accreditation Board
AP	Access Point	LAN	Local Area Network
ASK	Amplitude Shift Keying	LIMS	Laboratory Information Management System
Atten., ATT	Attenuator	MCS	Modulation and Coding Scheme
AV	Average	MRA	Mutual Recognition Arrangement
BPSK	Binary Phase-Shift Keying	N/A	Not Applicable
BR	Bluetooth Basic Rate	NIST	National Institute of Standards and Technology
BT	Bluetooth	NS	No signal detect.
BT LE	Bluetooth LE	NSA	Normalized Site Attenuation
BW	BandWidth	NVLAP	National Voluntary Laboratory Accreditation Program
Cal Int	Calibration Interval	OBW	Occupied Band Width
CCK	Complementary Code Keying	OFDM	Orthogonal Frequency Division Multiplexing
Ch., CH	Channel	P/M	Power meter
CISPR	Comite International Special des Perturbations Radioelectriques	PCB	Printed Circuit Board
CW	Continuous Wave	PER	Packet Error Rate
DBPSK	Differential BPSK	PHY	Physical Layer
DC	Direct Current	PK	Peak
D-factor	Distance factor	PN	Pseudo random Noise
DFS	Dynamic Frequency Selection	PRBS	Pseudo-Random Bit Sequence
DQPSK	Differential QPSK	PSD	Power Spectral Density
DSSS	Direct Sequence Spread Spectrum	QAM	Quadrature Amplitude Modulation
EDR	Enhanced Data Rate	QP	Quasi-Peak
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	QPSK	Quadri-Phase Shift Keying
EMC	ElectroMagnetic Compatibility	RBW	Resolution Band Width
EMI	ElectroMagnetic Interference	RDS	Radio Data System
EN	European Norm	RE	Radio Equipment
ERP, e.r.p.	Effective Radiated Power	RF	Radio Frequency
EU	European Union	RMS	Root Mean Square
EUT	Equipment Under Test	RSS	Radio Standards Specifications
Fac.	Factor	Rx	Receiving
FCC	Federal Communications Commission	SA, S/A	Spectrum Analyzer
FHSS	Frequency Hopping Spread Spectrum	SAR	Specific Absorption Rate
FM	Frequency Modulation	SG	Signal Generator
Freq.	Frequency	SVSWR	Site-Voltage Standing Wave Ratio
FSK	Frequency Shift Keying	TR	Test Receiver
GFSK	Gaussian Frequency-Shift Keying	Tx	Transmitting
GNSS	Global Navigation Satellite System	VBW	Video BandWidth
GPS	Global Positioning System	Vert.	Vertical
Hori.	Horizontal	WLAN	Wireless LAN
ICES	Interference-Causing Equipment Standard	-	-

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SECTION 1: Customer information

Company Name	Japan Radio Co., Ltd.
Address	Nakano Central Park East, 4-10-1 Nakano, Nakano-ku, Tokyo 164-8570 Japan
Telephone Number	+81-26-214-0267
Contact Person	Takahito Aso

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 and Test Date
- SECTION 4: Operation of EUT during testing

SECTION 2: Equipment under test (EUT)

2.1 Identification of EUT

Description	IT Controller
Model Number	JRN-440K
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	April 26, 2026
Test Date	May 19 to June 24, 2026

2.2 Product Description

General Specification

Rating	DC 20 V to 32 V (DC power port) DV 6.0 V (Battery pack)
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Radio Specification

WLAN (IEEE802.11b/11g/11n-20/11n-40)

Equipment Type	Transceiver
Frequency of Operation	2412 MHz to 2462 MHz
Type of Modulation	DSSS, OFDM

[WWAN: GSM]

Frequency of Operation	[Up Link] GSM 850: 824 MHz to 849 MHz GSM 1900: 1850 MHz to 1910 MHz	[Down Link] GSM 850: 869 MHz to 894 MHz GSM 1900: 1930 MHz to 1990 MHz
Modulation	GMSK, 8PSK	
Antenna Gain	GSM 850: 1.0 dBi GSM 1900: 1.6 dBi	

[WWAN: WCDMA]

Frequency of Operation	[Up Link] Band 2: 1850 MHz to 1910 MHz Band 4: 1710 MHz to 1755 MHz Band 5: 824 MHz to 849 MHz	[Down Link] Band 2: 1930 MHz to 1990 MHz Band 4: 2110 MHz to 2155 MHz Band 5: 869 MHz to 894 MHz
Modulation	QPSK, 16QAM, 64QAM	
Antenna Gain	Band 2: 1.6 dBi Band 4: 1.6 dBi Band 5: 1.0 dBi	

[WWAN: LTE]

Frequency of Operation	[Up Link] Band 2: 1850 MHz to 1910 MHz Band 4: 1710 MHz to 1755 MHz Band 5: 824 MHz to 849 MHz Band 7: 2500 MHz to 2570 MHz Band 12: 699 MHz to 716 MHz	[Down Link] Band 2: 1930 MHz to 1990 MHz Band 4: 2110 MHz to 2155 MHz Band 5: 869 MHz to 894 MHz Band 7: 2620 MHz to 2690 MHz Band 12: 729 MHz to 746 MHz
Modulation	QPSK, 16QAM, 64QAM, 256QAM	
Antenna Gain	Band 2: 1.6 dBi Band 4: 1.6 dBi Band 5: 1.0 dBi Band 7: -2.5 dBi Band 12: -1.0 dBi	

Supported GNSS and GNSS signals

GNSS	RNSS Frequency Band / Frequency [MHz]		
	1559 to 1610	1215 to 1300	1164 to 1215
BDS	☐ B1I 1561.098	-	-
	☐ B1C 1561.098		
	(IGSO)		
	☐ B1C 1561.098		
	(MEO)		
Galileo	☒ E1 1575.42	☐ E6 1278.75	☐ E5a 1176.45
			☐ E5b 1207.14
GLONASS	☐ G1 1598.0625 - 1605.375	☐ G2 1242.9375 - 1248.625	-
GPS	☒ L1 C/A 1575.42	☐ L2C 1227.6	☐ L5 1176.45
	☐ L1C 1575.42		
SBAS	☐ L1 1575.42	-	☐ L5 1176.45

- ☒ Supported GNSS signal
☐ Not supported GNSS signal

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification	FCC Part 22 The latest version on the first day of the testing period
Title	FCC 47CFR Part 22 PUBLIC MOBILE SERVICES Subpart H Cellular Radiotelephone Service

Test Specification	FCC Part 24 The latest version on the first day of the testing period
Title	FCC 47CFR Part 24 Personal Communications Services Subpart E Broadband PCS

Test Specification	FCC Part 27 The latest version on the first day of the testing period
Title	FCC 47CFR Part 27 Miscellaneous Wireless Communications Services Subpart C Technical Standards

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014/C63.4a-2017
ANSI C63.5-2017
ANSI C63.26-2015
KDB 971168 D01 v03r01

3.3 Summary of Test Results

Part 22

Item	Specification	Results	Remarks
RF Output Power	FCC 47 CFR Part 2.1046(a) FCC 47 CFR Part 22.913(a)(5)	Complied	See Note
99 % Occupied bandwidth and 26 dB Bandwidth	FCC 47 CFR Part 2.1049(h)	Complied	See Note
Transmitter Unwanted Emissions (Conducted)	FCC 47 CFR Part 2.1051 FCC 47 CFR Part 22.917(a)	Complied	See Note
Transmitter Unwanted Emissions (Radiated)	FCC 47 CFR Part 2.1053 FCC 47 CFR Part 22.917(a)	Complied	See Note
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355	Complied	See Note

Part 24

Item	Specification	Results	Remarks
RF Output Power	FCC 47 CFR Part 2.1046(a) FCC 47 CFR Part 24.232(c)	Complied	See Note
Peak to Average Power Ratio	FCC 47 CFR Part 24.232(d)	Complied	See Note
99 % Occupied bandwidth and 26 dB Bandwidth	FCC 47 CFR Part 2.1049(h)	Complied	See Note
Transmitter Unwanted Emissions (Conducted)	FCC 47 CFR Part 2.1051 FCC 47 CFR Part 24.238(a)	Complied	See Note
Transmitter Unwanted Emissions (Radiated)	FCC 47 CFR Part 2.1053 FCC 47 CFR Part 24.238(a)	Complied	See Note
Frequency stability	FCC 47 CFR Part 2.1055	Complied	See Note

Part 27

Item	Specification	Results	Remarks
RF Output Power	FCC 47 CFR Part 2.1046(a) FCC 47 CFR Part 27.50(c)(9) FCC 47 CFR Part 27.50(d)(4) FCC 47 CFR Part 27.50(h)(2)	Complied	See Note
Peak to Average Power Ratio	FCC 47 CFR Part 27.50(d)(5)	Complied	See Note
99 % Occupied bandwidth and 26 dB Bandwidth	FCC 47 CFR Part 2.1049(h)	Complied	See Note
Transmitter Unwanted Emissions (Conducted)	FCC 47 CFR Part 2.1051 FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(h)(1) FCC 47 CFR Part 27.53(m)(4)	Complied	See Note
Transmitter Unwanted Emissions (Radiated)	FCC 47 CFR Part 2.1053 FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(h)(1) FCC 47 CFR Part 27.53(m)(4)	Complied	See Note
Frequency stability	FCC 47 CFR Part 2.1055	Complied	See Note

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591.

3.4 Addition to Standard

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

3.5 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k = 2$.

Radiated emission

Measurement distance	Frequency range		Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz		dB	4.8
10 m			dB	4.7
3 m	30 MHz to 200 MHz	Horizontal	dB	5.0
		Vertical	dB	5.0
	200 MHz to 1000 MHz	Horizontal	dB	5.2
		Vertical	dB	6.2
10 m	30 MHz to 200 MHz	Horizontal	dB	5.5
		Vertical	dB	5.4
	200 MHz to 1000 MHz	Horizontal	dB	5.5
		Vertical	dB	5.5
3 m	1 GHz to 6 GHz		dB	5.1
	6 GHz to 18 GHz		dB	5.5
1 m	6 GHz to 18 GHz		dB	5.5
	18 GHz to 26.5 GHz		dB	5.7
	26.5 GHz to 40 GHz		dB	4.8
0.5 m	18 GHz to 40 GHz		dB	5.8

Antenna Terminal Conducted

Item	Unit	Calculated Uncertainty (+/-)
Antenna terminated conducted emission / Power density / Burst power	dB	3.50
Adjacent channel power (ACP)	dB	2.32
Bandwidth (OBW)	%	0.96
Time readout (time span upto 100 msec)	%	0.11
Time readout (time span upto 1000 msec)	%	0.11
Time readout (time span upto 60 sec)	%	0.02
Power measurement (Power meter < 8GHz)	dB	1.43
Power measurement (Call box < 6 GHz)	dB	1.89
Frequency readout (Frequency counter)	Ratio	6.7.E-07
Frequency readout (Spectrum analyzer frequency readout function)	Ratio	2.1.E-06
Temperature (constant temperature bath)	deg.C	0.69
Humidity (constant temperature bath)	%RH	2.98
Modulation characteristics	%	6.93
Frequency for mobile	Ratio	8.0.E-08
Contention-based protocol	dB	2.97

3.6 Test Location

UL Japan, Inc. Ise EMC Lab.

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

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber (SAC1)	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber (SAC2)	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber (SAC3)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room (PR3)	3 m
No.3 shielded room (SR3)	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber (SAC4)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room (PR4)	3 m
No.4 shielded room (SR4)	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber (SAC5)	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room (MR5)	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room (SR6)	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room (MR6)	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room (SR7)	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room (MR8)	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room (MR9)	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room (SR10)	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room (MR11)	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room (MR12)	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

3.7 Test data, Test instruments, and Test set up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s) for GSM

<GSM850>

Test	Operating mode	Power Control	Tested frequency	Uplink Channel
RF Output Power (Conducted)	Transmitting (Tx) GSM (GMSK, 1UL) Transmitting (Tx) GPRS (GMSK, 1-4UL) Transmitting (Tx) EDGE (8PSK, 1-4UL)	5	824.2 MHz 836.6 MHz 848.8 MHz	128 190 251
Peak to Average power Ratio (Conducted)	Transmitting (Tx) GSM (GMSK, 1UL) Transmitting (Tx) GPRS (GMSK, 1UL) Transmitting (Tx) EDGE (8PSK, 1UL)	5	836.6 MHz	190
99 % Occupied bandwidth and 26 dB Bandwidth				
Out of Band Emission (Conducted)	Transmitting (Tx) GSM (GMSK, 1UL) Transmitting (Tx) GPRS (GMSK, 1UL) Transmitting (Tx) EDGE (8PSK, 1UL)	5	824.2 MHz 848.8 MHz	128 251
Frequency Stability (Temperature/Voltage Variation)	Transmitting (Tx) EDGE (8PSK, 1UL) *2)	5	824.2 MHz 848.8 MHz	128 251
Spurious Emission (Radiated)	Transmitting (Tx) GPRS (GMSK, 1UL) *1) Transmitting (Tx) EDGE (8PSK, 1UL)	5	824.2 MHz 836.6 MHz 848.8 MHz	128 190 251

<PCS1900>

Test	Operating mode	Power Control	Tested frequency	Uplink Channel
RF Output Power (Conducted)	Transmitting (Tx) GSM (GMSK, 1UL) Transmitting (Tx) GPRS (GMSK, 1-4UL) Transmitting (Tx) EDGE (8PSK, 1-4UL)	0	1850.2 MHz 1880.0 MHz 1909.8 MHz	512 661 810
Peak to Average power Ratio (Conducted)	Transmitting (Tx) GSM (GMSK, 1UL) Transmitting (Tx) GPRS (GMSK, 1UL) Transmitting (Tx) EDGE (8PSK, 1UL)	0	1880.0 MHz	661
99 % Occupied bandwidth and 26 dB Bandwidth				
Out of Band Emission (Conducted)	Transmitting (Tx) GSM (GMSK, 1UL) Transmitting (Tx) GPRS (GMSK, 1UL) Transmitting (Tx) EDGE (8PSK, 1UL)	0	1850.2 MHz 1909.8 MHz	512 810
Frequency Stability (Temperature/Voltage Variation)	Transmitting (Tx) EDGE (8PSK, 1UL) *2)	0	1850.2 MHz 1909.8 MHz	512 810
Spurious Emission (Radiated)	Transmitting (Tx) GPRS (GMSK, 1UL) *1) Transmitting (Tx) EDGE (8PSK, 1UL)	0	1850.2 MHz 1880.0 MHz 1909.8 MHz	512 661 810

*The multi slot configuration was conducted under the worst-case condition as a representative, based on preliminary testing.

*1) Since GSM and GPRS both use GMSK, testing was conducted using the GPRS mode as the representative because it had the highest RF Output Power (Conducted).

*2) The test was performed on the worst mode according to the result of preliminary testing.

4.2 Operating Mode(s) for W-CDMA

<W-CDMA Band 2>

Test	Operating mode	Power Control	Tested frequency	Uplink Channel
RF Output Power (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1-4) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1-4) Transmitting (Tx) W-CDMA (HSUPA Subtest 1-5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1852.4 MHz 1880.0 MHz 1907.6 MHz	9262 9400 9538
Peak to Average power Ratio (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 4) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 4) Transmitting (Tx) W-CDMA (HSUPA Subtest 3) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1880.0 MHz	9400
99 % Occupied bandwidth and 26 dB Bandwidth	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1) Transmitting (Tx) W-CDMA (HSUPA Subtest 5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1880.0 MHz	9400
Out of Band Emission (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1) Transmitting (Tx) W-CDMA (HSUPA Subtest 5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1852.4 MHz 1907.6 MHz	9262 9538
Frequency Stability (Temperature/ Voltage Variation)	Transmitting (Tx) W-CDMA (RMC12.2kbps) *2)	TPC All up bits(Max)	1852.4 MHz 1907.6 MHz	9262 9538
Spurious Emission (Radiated)	Transmitting (Tx) W-CDMA (RMC12.2kbps) *1)	TPC All up bits(Max)	1852.4 MHz 1880.0 MHz 1907.6 MHz	9262 9400 9538

*The subtest was conducted under the worst-case condition as a representative, based on preliminary testing.

*1) The mode was used for testing as a representative, because it had the highest RF Output Power (Conducted).

*2) The test was performed on the worst mode according to the result of preliminary testing.

<W-CDMA Band 4>

Test	Operating mode	Power Control	Tested frequency	Uplink Channel
RF output Power (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1-4) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1-4) Transmitting (Tx) W-CDMA (HSUPA Subtest 1-5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1712.4 MHz 1732.4 MHz 1752.6 MHz	1312 1412 1513
Peak to Average power Ratio (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 4) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 4) Transmitting (Tx) W-CDMA (HSUPA Subtest 3) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1732.4 MHz	1412
99 % Occupied bandwidth and 26 dB Bandwidth	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1) Transmitting (Tx) W-CDMA (HSUPA Subtest 5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1732.4 MHz	1412
Out of Band Emission (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1) Transmitting (Tx) W-CDMA (HSUPA Subtest 5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	1712.4 MHz 1752.6 MHz	1312 1513
Frequency Stability (Temperature/ Voltage Variation)	Transmitting (Tx) W-CDMA (RMC12.2kbps) *2	TPC All up bits(Max)	1712.4 MHz 1752.6 MHz	1312 1513
Spurious Emission (Radiated)	Transmitting (Tx) W-CDMA (RMC12.2kbps) *1)	TPC All up bits(Max)	1712.4 MHz 1732.4 MHz 1752.6 MHz	1312 1412 1513

*The subtest was conducted under the worst-case condition as a representative, based on preliminary testing.

*1) The mode was used for testing as a representative, because it had the highest RF Output Power (Conducted).

*2) The test was performed on the worst mode according to the result of preliminary testing.

<W-CDMA Band 5>

Test	Operating mode	Power Control	Tested frequency	Uplink Channel
RF output Power (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1-4) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1-4) Transmitting (Tx) W-CDMA (HSUPA Subtest 1-5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	826.4 MHz 836.4 MHz 846.6 MHz	4132 4182 4233
Peak to Average power Ratio (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 4) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 4) Transmitting (Tx) W-CDMA (HSUPA Subtest 3) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	836.4 MHz	4182
99 % Occupied bandwidth and 26 dB Bandwidth	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1) Transmitting (Tx) W-CDMA (HSUPA Subtest 5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	836.4 MHz	4182
Out of Band Emission (Conducted)	Transmitting (Tx) W-CDMA (RMC12.2kbps) Transmitting (Tx) W-CDMA (HSDPA Subtest 1) Transmitting (Tx) W-CDMA (DC-HSDPA Subtest 1) Transmitting (Tx) W-CDMA (HSUPA Subtest 5) Transmitting (Tx) W-CDMA (HSPA+ Subtest 1)	See Section 4.4	826.4 MHz 846.6 MHz	4132 4233
Frequency Stability (Temperature/ Voltage Variation)	Transmitting (Tx) W-CDMA (RMC12.2kbps) *2)	TPC All up bits(Max)	826.4 MHz 846.6 MHz	4132 4233
Spurious Emission (Radiated)	Transmitting (Tx) W-CDMA (RMC12.2kbps) *1)	TPC All up bits(Max)	826.4 MHz 836.4 MHz 846.6 MHz	4132 4182 4233

*The subtest was conducted under the worst-case condition as a representative, based on preliminary testing.

*1) The mode was used for testing as a representative, because it had the highest RF Output Power (Conducted).

*2) The test was performed on the worst mode according to the result of preliminary testing.

4.3 Operating Mode(s) for LTE

<LTE channel plan>

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

<LTE RB configuration>

BW: 1.4 MHz			BW: 3 MHz			BW: 5 MHz		
Modulation	RB allocation (number of RB)	RB start	Modulation	RB allocation (number of RB)	RB start	Modulation	RB allocation (number of RB)	RB start
QPSK	1	0	QPSK	1	0	QPSK	1	0
	1	2		1	7		1	12
	1	5		1	14		1	24
	3	0		8	0		12	0
	3	1		8	4		12	6
	3	3		8	7		12	13
	6	0		15	0		25	0
16QAM	1	0	16QAM	1	0	16QAM	1	0
	1	2		1	7		1	12
	1	5		1	14		1	24
	3	0		8	0		12	0
	3	1		8	4		12	6
	3	3		8	7		12	13
	6	0		15	0		25	0
BW: 10 MHz			BW: 15 MHz			BW: 20 MHz		
Modulation	RB allocation (number of RB)	RB start	Modulation	RB allocation (number of RB)	RB start	Modulation	RB allocation (number of RB)	RB start
QPSK	1	0	QPSK	1	0	QPSK	1	0
	1	24		1	37		1	49
	1	49		1	74		1	99
	25	0		36	0		50	0
	25	12		36	19		50	24
	25	25		36	39		50	50
	50	0		75	0		100	0
16QAM	1	0	16QAM	1	0	16QAM	1	0
	1	24		1	37		1	49
	1	49		1	74		1	99
	15	0		15	0		15	0
	15	17		15	30		15	42
	15	35		15	60		15	85
	27	0		27	0		27	0
	27	11		27	24		27	36
	27	23		27	48		27	73

* For 16QAM, testing was performed using an RB configuration in which communication could be established, due to the maximum LTE uplink data rate specified in the module specification.

<LTE test matrix>

					RF Output Power (Conducted)					Peak to Average Power Ratio (Conducted) *1)					99 % Occupied bandwidth and 26 dB Bandwidth (Conducted) *1)					Out of Band Emission (Conducted) *2)						
					Band					Band					Band					Band						
Modulation	Bandwidth	UL RB Config	Power Control	Channel	2	4	5	7	12	2	4	5	7	12	2	4	5	7	12	2	4	5	7	12		
QPSK 16QAM	1.4 MHz	1/0	TPC All 1 (MAX)	Lch	Y	Y	Y		Y											Y	Y	Y		Y		
		1/2		Mch	Y	Y	Y		Y																	
		1/5		Hch	Y	Y	Y		Y												Y	Y	Y		Y	
		3/0			Y	Y	Y		Y																	
		3/1			Y	Y	Y		Y																	
		3/3			Y	Y	Y		Y																	
		6/0			Y	Y	Y		Y	Y	Y		Y	Y	Y		Y	Y	Y	Y		Y	Y	Y		Y
QPSK 16QAM	3 MHz	1/0	TPC All 1 (MAX)	Lch	Y	Y	Y		Y											Y	Y	Y		Y		
		1/7		Mch	Y	Y	Y		Y																	
		1/14		Hch	Y	Y	Y		Y												Y	Y	Y		Y	
		8/0			Y	Y	Y		Y																	
		8/4			Y	Y	Y		Y																	
		8/7			Y	Y	Y		Y																	
		15/0			Y	Y	Y		Y	Y	Y		Y	Y	Y		Y	Y	Y	Y		Y	Y	Y		Y
QPSK 16QAM	5 MHz	1/0	TPC All 1 (MAX)	Lch	Y	Y	Y		Y											Y	Y	Y		Y		
		1/12		Mch	Y	Y	Y		Y																	
		1/24		Hch	Y	Y	Y		Y												Y	Y	Y		Y	
		12/0			Y	Y	Y		Y																	
		12/6			Y	Y	Y		Y																	
		12/13			Y	Y	Y		Y																	
		25/0			Y	Y	Y		Y	Y	Y		Y	Y	Y		Y	Y	Y	Y		Y	Y	Y		Y
QPSK	10 MHz	1/0	TPC All 1 (MAX)	Lch	Y	Y	Y		Y											Y	Y	Y		Y		
		1/24		Mch	Y	Y	Y		Y																	
		1/49		Hch	Y	Y	Y		Y												Y	Y	Y		Y	
		25/0			Y	Y	Y		Y																	
		25/12			Y	Y	Y		Y																	
		25/25			Y	Y	Y		Y																	
		50/0			Y	Y	Y		Y	Y	Y		Y	Y	Y		Y	Y	Y	Y		Y	Y	Y		Y
16QAM		1/0	TPC All 1 (MAX)	Lch	Y	Y	Y		Y											Y	Y	Y		Y		
		1/24		Mch	Y	Y	Y		Y																	
		1/49		Hch	Y	Y	Y		Y												Y	Y	Y		Y	
		15/0			Y	Y	Y		Y																	
		15/17			Y	Y	Y		Y																	
		15/35			Y	Y	Y		Y																	
		27/0			Y	Y	Y		Y												Y	Y	Y		Y	
QPSK	15 MHz	27/11	TPC All 1 (MAX)		Y	Y	Y		Y																	
		27/23		Lch	Y	Y	Y		Y												Y	Y	Y		Y	
		1/0		Mch	Y	Y		Y													Y	Y		Y		
		1/37		Hch	Y	Y		Y																		
		1/74			Y	Y		Y													Y	Y		Y		
		36/0			Y	Y		Y																		
		36/19			Y	Y		Y																		
16QAM		36/39	TPC All 1 (MAX)		Y	Y		Y																		
		75/0		Lch	Y	Y		Y		Y	Y		Y	Y		Y	Y		Y	Y		Y				
		1/0		Mch	Y	Y		Y													Y	Y		Y		
		1/37		Hch	Y	Y		Y																		
		1/74			Y	Y		Y													Y	Y		Y		
		15/0			Y	Y		Y																		
		15/30			Y	Y		Y																		
QPSK	20 MHz	15/60	TPC All 1 (MAX)		Y	Y		Y																		
		27/0		Lch	Y	Y		Y													Y	Y		Y		
		27/24		Mch	Y	Y		Y																		
		27/48		Hch	Y	Y		Y														Y	Y		Y	
		1/0			Y	Y		Y														Y	Y		Y	
		1/49			Y	Y		Y														Y	Y		Y	
		1/99		Lch	Y	Y		Y														Y	Y		Y	
16QAM		15/0	TPC All 1 (MAX)	Mch	Y	Y		Y																		
		15/42		Hch	Y	Y		Y													Y	Y		Y		
		15/85			Y	Y		Y																		
		27/0			Y	Y		Y													Y	Y		Y		
		27/36			Y	Y		Y																		
		27/73			Y	Y		Y		Y	Y		Y	Y		Y					Y	Y		Y		

Modulation	Bandwidth	UL RB Config	Power Control	Channel	Spurious Emission (Radiated)					Frequency Stability (Temperature) (Voltage Variation)				
					Band					Band				
					2	4	5	7	12	2	4	5	7	12
QPSK	Worst Bandwidth *3)	Worst Power Configuration	TPC All 1 (MAX)	Lch Mch Hch	Y	Y	Y	Y	Y					
QPSK	Narrowest Bandwidth *4)	Full RB Configuration	TPC All 1 (MAX)	Lch Hch						Y	Y	Y	Y	Y

"Y" means tested

*1) This item was tested only on Mch.

*2) This item was tested only for Lch and Hch.

*3) The UL RB Configuration was used for worst case testing.because it had the highest RF output power (conducted).

*4) The narrowest bandwidth was chosen for testing as a representative.

4.4 Explanation of the Rel-99 W-CDMA, Rel-6 HSPA, Rel-7 HSPA+ and Rel-8 DC-HSDPA measurement mode

3GPP defines UE Test Modes and Channel Configurations for Regulatory Testing.

- **UE Test Modes:**
Test Mode 1(Data Loopback Test)
- **Channel Configurations:**
R99 – 12.2kpbs Reference Measurement Channel (RMC) channel
HSDPA – Fixed Reference Channel (FRC)
HSUPA – New HSUPA channel configuration (HSDPA data from DL is looped back onto UL)
- **Procedure to configure UE to transmit maximum power:**

Rel99: 3GPP TS 34.121 section 5.2

HSDPA Rel5: 3GPP TS 34.121 section 5.2A

HSDPA Rel6: 3GPP TS 34.121 section 5.2AA

HSUPA Rel6: 3GPP TS 34.121 section 5.2B

HSPA+ Rel7: Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1.

DC-HSDPA Rel8:

Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

* About Rel-99 and HSDPA testing, test equipment send “all up bits” forcing UE max power

1) Explanation for HSDPA/HSPA Subtests

3GPP TS 34.121 defines test requirements and procedures for testing all variations of W-CDMA. 3GPP TS 34.121 defines 4 HSDPA test configurations and 5 HSPA test configurations (“Subtests”) for various RF Conformance tests. The Following table shows Release 5 HSDPA, Release 6 HSPA, Release 7 HSPA+, Release 8 DC-HSDPA Subtest Configurations per 3GPP TS 34.121.

[HSDPA and DC-HSDPA]

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
	(Note 4)	(Note 4)		(Note 4)			
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

*HSDPA: H-set1, DC-HSDPA: H-set12

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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.		

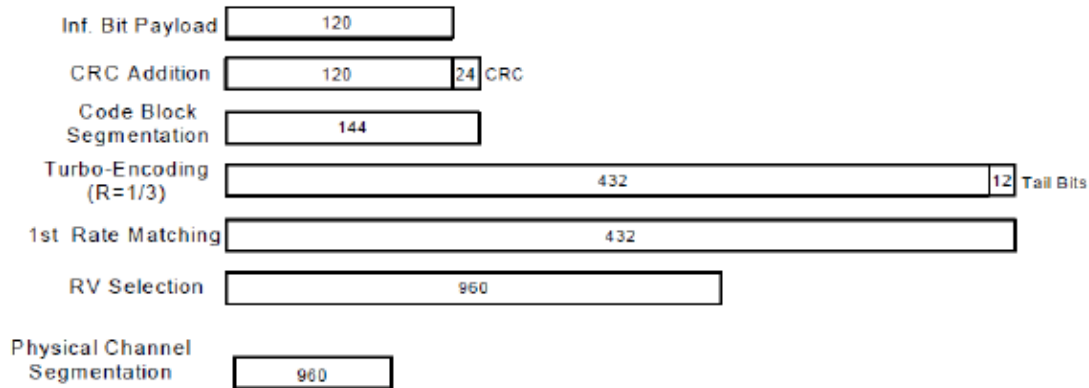


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

[HSUPA]

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

[HSPA+]

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 $\beta_{hs} = 30/15 * \beta_c$.

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 β_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.

2) Maximum Output Power Verification

[HSDPA]

Maximum output power was verified on High, Middle and Low channels according to the Release 5 procedures described in section 5.2 of 3GPP TS 34.121, using an FRC with H-set 1 and 12.2kbps RMC with TPC (transmit power control) set to all "1's". Output power was measured according requirements for HS-DPCCH Sub-test 1-4.

[HSUPA]

Maximum output power was verified on the High, Middle and Low channels according to Release 6 procedures in section 5.2 of 3GPP TS 34.121, using the appropriate RMC, FRC and E-DCH configurations. When E-DCH was active, inner loop power control with power control algorithm 2 was used to maintain E-TFCI requirements. Output power for the applicable HSPA modes was measured for E-DCH Sub-test 1-5.

[HSPA+]

Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1.

[DC-HSDPA]

Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

3) Test Equipment Setting Summary Table

The following table is the key parameters that was configured in test equipment.

Subtest	Mode	Loopback Mode	Rel99 RMC	HSDPA FRC	HSUPA Test	Common Setting		β_c/β_d	MPR	Power Class 3 limit
						β_c	β_d			
	Rel99	Test Mode 1	12.2kbps RMC	-	-	-	-	8/15	-	24(+1.7/-3.7dB)
1	Rel6 HSDPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	-	2/15	15/15	2/15	0	24(+1.7/-3.7dB)
2	Rel6 HSDPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	-	12/15	15/15	12/15	0	24(+1.7/-3.7dB)
3	Rel6 HSDPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	-	15/15	8/15	15/8	0.5	23.5(+2.2/-3.7dB)
4	Rel6 HSDPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	-	15/15	4/15	15/4	0.5	23.5(+2.2/-3.7dB)
1	Rel6 HSUPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	HSUPA Loopback	11/15	15/15	11/15	0	24(+1.7/-3.7dB)
2	Rel6 HSUPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	HSUPA Loopback	6/15	15/15	6/15	2	22(+3.7/-3.7dB)
3	Rel6 HSUPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	HSUPA Loopback	15/15	9/15	15/9	1	23(+2.7/-3.7dB)
4	Rel6 HSUPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	HSUPA Loopback	2/15	15/15	2/15	2	22(+3.7/-3.7dB)
5	Rel6 HSUPA	Test Mode 1	12.2kbps RMC	H-Set 1 (QPSK)	HSUPA Loopback	15/15	15/15	15/15	0	24(+1.7/-3.7dB)

Subtest	HSDPA Specific Settings						
	Δ ACK	Δ NACK	Δ CQI	Ack-Nack repetition factor	CQI Feedback	CQI Repetition Factor	Ahs= β_{hs}/β_c
Rel 6 HSDPA							
1	8	8	8	3	4ms	2	30/15
2	8	8	8	3	4ms	2	30/15
3	8	8	8	3	4ms	2	30/15
4	8	8	8	3	4ms	2	30/15

Subtest	HSDPA Specific Settings							HSUPA Specific Settings			HSUPA Additional Info	
	Δ ACK	Δ NACK	Δ CQI	Ack-Nack repetition factor	CQI Feedback	CQI Repetition Factor	Ahs= β_{hs}/β_c	Δ E-DPCCH	Δ HARQ	AG Index	ETFCI (form TS34.121 Table C.11.1.3)	Associated Max UL Data Rate kbps
Rel 6 HSPA												
1	8	8	8	3	4ms	2	30/15	6	0	20	75	242.1
2	8	8	8	3	4ms	2	30/15	8	0	12	67	174.9
3	8	8	8	3	4ms	2	30/15	8	0	15	92	482.8
4	8	8	8	3	4ms	2	30/15	5	0	17	71	205.8
5	8	8	8	3	4ms	2	30/15	7	0	21	81	308.9

HSUPA Reference E-TFCI Parameters
[Subtest 1,2,4,5]

Information Element	Value/Remark
E-DCH info	Uplink DPCH info
- E-DPDCH info	
- Reference E-TFCIs	5 E-TFCIs
- Reference E-TFCI	11
- Reference E-TFCI PO	4
- Reference E-TFCI	67
- Reference E-TFCI PO	18
- Reference E-TFCI	71
- Reference E-TFCI PO	23
- Reference E-TFCI	75
- Reference E-TFCI PO	26
- Reference E-TFCI	81
- Reference E-TFCI PO	27

[Subtest 3]

Information Element	Value/Remark
E-DCH info	Uplink DPCH info
- E-DPDCH info	
- Reference E-TFCIs	2 E-TFCIs
- Reference E-TFCI	11
- Reference E-TFCI PO	4
- Reference E-TFCI	92
- Reference E-TFCI PO	18

*Power of the EUT was set by the software as follows;

Power settings : Same as production model

Software : JRN-440K Version1.02

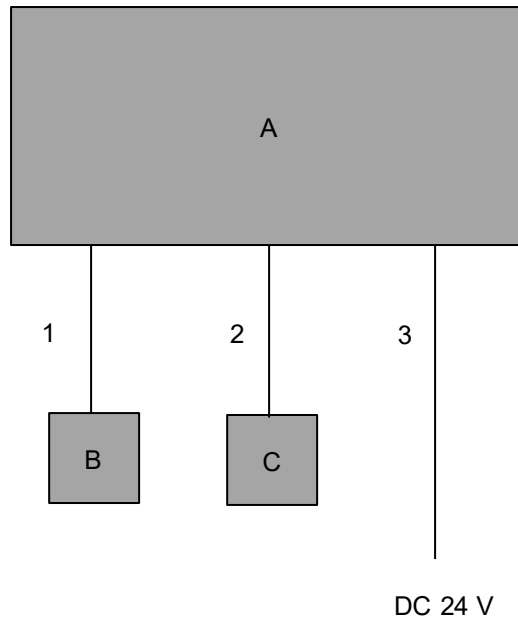
*This setting of software is the worst case.

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.

4.5 Configuration and peripherals

Radiated Emission test



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

* According to the product specification, the communication function is automatically turned off after a certain period when the unit operates on the battery pack. Since the same power input circuit is used to supply the module from both the DC power port and the battery pack, the test was conducted using only the DC power port.

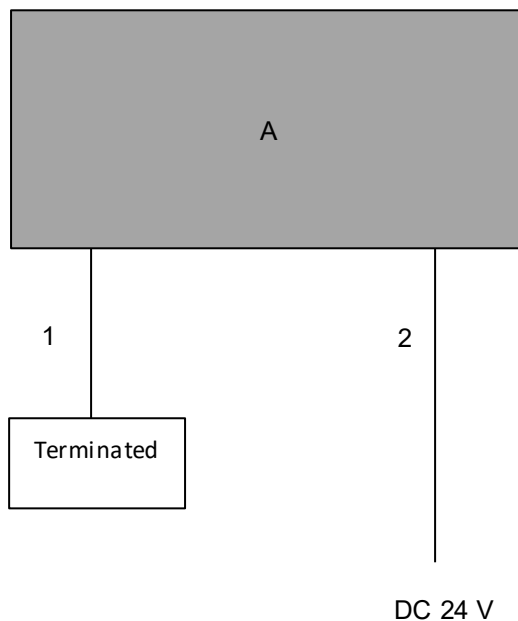
Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	IT controller	JRN-440K	12F000004901	Japan Radio Co., Ltd.	EUT
B	WWAN Antenna	7ABLE0009	No.093062	Japan Radio Co., Ltd.	EUT
C	WWAN Antenna	7ABLE0009	No.103338	Japan Radio Co., Ltd.	EUT

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Antenna Cable	2.4	Shielded	Shielded	-
2	Antenna Cable	2.4	Shielded	Shielded	-
3	DC Cable	2.0	Unshielded	Unshielded	-

Antenna Terminal Conducted test



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.
* Communication is interrupted after a certain period when powered by the battery pack. Since the same power input circuit is used to supply the module from both the DC power port and the battery pack, the test was conducted using only the DC power port.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	IT controller	JRN-440K	12F000005001	Japan Radio Co., Ltd.	EUT

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	RF Cable	0.15	Shielded	Shielded	-
2	DC Cable	2.0	Unshielded	Unshielded	-

SECTION 5: RF Output Power

Test Procedure

RF Output Power was measured with a power meter and an attenuator at the antenna port.

Limit

§ 22.913 Effective radiated power limits.

(a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

§ 24.232 Power and antenna height limits.

(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

§ 27.50 Power limits and duty cycle.

(c)(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(h)(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Data : APPENDIX

Test Result : Pass

SECTION 6: Peak to Average Power Ratio

Test Procedure

Peak to Average Power Ratio was measured with a Spectrum Analyzer and an attenuator at the antenna port.

Function of Complementary Cumulative Distribution Function (CCDF) curves of the spectrum analyzer is used.

Spectrum analyzer settings: Set the integral bandwidth to a bandwidth sufficiently wider than the OBW.

For burst transmissions, the internal burst trigger was used with a trigger level that allows the burst to stabilize, and the measurement interval was set to a time that is less than or equal to the burst duration.

Limit

The peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1 % of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

Test Data : APPENDIX

Test Result : Pass

SECTION 7: 99 % Occupied bandwidth and 26 dB Bandwidth

Test Procedure

99 % Occupied bandwidth and 26 dB Bandwidth was measured with below setting connected to the antenna port.

RBW	VBW	Span	Sweep time	Detector	Trace	Instrument Used
1 % to 5 % of OBW	Three times of RBW	Enough width to display emission skirts	Auto	Peak	Max Hold	Spectrum Analyzer

Limit

No limit specified (for reporting purposes only).

Test Data : APPENDIX
Test Result : Only reported

SECTION 8: Frequency Stability (Temperature / Voltage Variation)

Test Procedure

The Frequency Stability was measured with below setting connected to the antenna port.

RBW	VBW	Span	Sweep time	Detector	Trace	Instrument Used
1 % to 5 % of OBW	Three times of RBW	Enough width to display emission skirts	Auto	Peak	Max Hold	Spectrum Analyzer

The Frequency Stability (Temperature) was measured with the normal temperature (20 deg. C.) and Temperature tolerance, and it is presented as lower edge, upper edge, and ppm.

The Frequency Stability (Voltage) was measured with the normal temperature (20 deg. C.) and Voltage tolerance, and it is presented as lower edge, upper edge, and ppm.

Temperature : -30 deg. C. to 50 deg. C. (10 deg. C. step)
Voltage : Vnom: DC 24.0 V, Vmin: DC 20.4 V, Vmax: DC 27.6 V

Frequency Stability test was performed under the above condition.

Limit

§ 22.355 Frequency tolerance.

Test Data : APPENDIX
Test Result : Pass

SECTION 9: Out of Band Emission

Test Procedure

Out of Band Emission was measured with a Spectrum Analyzer and an attenuator at the antenna port.

The settings of the spectrum analyzer are described in APPENDIX.

Sample calculations: Result = Amplitude [dBm]

Amplitude includes losses such as cable, attenuator, or combiners and duty factor (GSM only).

Limit

§ 22.917(a), § 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

§ 27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

§ 27.53(h)(1)

For operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

§ 27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

Test Data : APPENDIX

Test Result : Pass

SECTION 10: Spurious Emission

Test Procedure

- 1) For below 1 GHz
EUT was placed on the platform of nominal size, 1.0 m by 1.5 m raised 0.8 m above the conducting ground plane.
For above 1 GHz
EUT was placed on the platform of nominal size, 0.5 m by 1.0 m raised 1.5 m above the conducting ground plane.

The Radiated Electric Field Strength intensity has been measured in semi anechoic chamber. The measuring antenna height was varied between 1 m to 4 m and the turn table was rotated a full revolution in order to obtain the maximum value of the electric field strength. The measurements were performed for both vertical and horizontal antenna polarization.
- 2) Exchanged the EUT to the Substitution Antenna, the measurement was set for the same height as the EUT. The frequency below 1 GHz of the Substitution Antenna was used the Half wave dipole Antenna, which was tuned the measured frequency in 1). The frequency above 1 GHz of the Substitution Antenna was used Horn Antenna. The Substitution Antenna was connected to the Signal Generator, and the polarized electromagnetic radiation of the Substitution Antenna was matched with the one of the measuring Antenna, which was set with the Signal Generator to the measured frequency in 1). Then, we set with the Output power (CW) of the Signal Generator where the measuring electromagnetic field strength is equal to the measured value in 1) by means of varying the measuring antenna height between 1 m to 4 m to obtain maximum receiving level. Its Output power of Signal Generator was recorded.
- 3) Equivalent isotropic radiated power (EIRP) and effective radiated power (ERP) were calculated using the following equations:
EIRP = (Output power of Signal Generator) - (Tx cable loss) + (Gain of Substitute Antenna)
ERP = EIRP - 2.15 dBi

Test instruments and test settings:

Frequency	Below 30 MHz	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Loop	Biconical	Logperiodic	Horn
Instrument used	Spectrum Analyzer			
Test distance	3 m	3 m	3 m	3 m or 1 m*

* Measurements at frequencies of 10 GHz and above were performed at a distance of 1 m.

Setting of the spectrum analyzer:

Detector	Peak*
IF Bandwidth	RBW: 1 MHz VBW: 3 MHz

* Measurements were performed conservatively using peak detection.

The noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Limit

§ 22.917(a), § 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

§ 27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

§ 27.53(h)(1)

For operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

§ 27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

Measurement range	: 30 MHz to 26.5 GHz
Test Data	: APPENDIX
Test Result	: Pass

APPENDIX 1: Test data

RF Output Power

Mode	GSM850
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Date	Test site	Temperature	Humidity	Engineer
June 1, 2026	SR6	26 deg. C	45 % RH	Takafumi Noguchi

GSM850

UL Ch #	Freq. [MHz]	Mode		Conducted Power [dBm]	Ant.Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
128 Low	824.2	GSM (GMSK)	1UL	33.03	1.00	31.88	38.45	6.57
			1UL	33.15	1.00	32.00	38.45	6.45
		GPRS (GMSK)	2UL	30.04	1.00	28.89	38.45	9.56
			3UL	27.87	1.00	26.72	38.45	11.73
			4UL	26.48	1.00	25.33	38.45	13.12
			EDGE (8PSK)	1UL	26.18	1.00	25.03	38.45
		2UL		23.58	1.00	22.43	38.45	16.02
		3UL		21.46	1.00	20.31	38.45	18.14
		4UL		20.06	1.00	18.91	38.45	19.54
		190 Mid	836.6	GSM (GMSK)	1UL	33.28	1.00	32.13
1UL	33.50				1.00	32.35	38.45	6.10
GPRS (GMSK)	2UL			30.35	1.00	29.20	38.45	9.25
	3UL			27.89	1.00	26.74	38.45	11.71
	4UL			26.53	1.00	25.38	38.45	13.07
	EDGE (8PSK)			1UL	26.16	1.00	25.01	38.45
2UL				23.50	1.00	22.35	38.45	16.10
3UL				21.62	1.00	20.47	38.45	17.98
4UL				20.06	1.00	18.91	38.45	19.54
251 High	848.8			GSM (GMSK)	1UL	33.02	1.00	31.87
		1UL	33.04		1.00	31.89	38.45	6.56
		GPRS (GMSK)	2UL	30.21	1.00	29.06	38.45	9.39
			3UL	27.76	1.00	26.61	38.45	11.84
			4UL	26.53	1.00	25.38	38.45	13.07
			EDGE (8PSK)	1UL	26.27	1.00	25.12	38.45
		2UL		23.30	1.00	22.15	38.45	16.30
		3UL		21.29	1.00	20.14	38.45	18.31
		4UL		19.80	1.00	18.65	38.45	19.80

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

The test was performed with Gate function.

RF Output Power

Mode	PCS1900
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Date	Test site	Temperature	Humidity	Engineer
June 1, 2026	SR6	26 deg. C	45 % RH	Takafumi Noguchi

PCS1900

UL	Freq.	Mode		Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
Ch #	[MHz]			[dBm]	[dBi]	[dBm]	[dBm]	[dB]
512 Low	1850.2	GSM (GMSK)	1UL	29.54	1.60	31.14	33.01	1.87
			1UL	29.55	1.60	31.15	33.01	1.86
		GPRS (GMSK)	2UL	26.45	1.60	28.05	33.01	4.96
			3UL	24.50	1.60	26.10	33.01	6.91
			4UL	23.16	1.60	24.76	33.01	8.25
			4UL	23.16	1.60	24.76	33.01	8.25
		EDGE (8PSK)	1UL	25.16	1.60	26.76	33.01	6.25
			2UL	22.31	1.60	23.91	33.01	9.10
			3UL	20.16	1.60	21.76	33.01	11.25
			4UL	19.03	1.60	20.63	33.01	12.38
661 Mid	1880.0	GSM (GMSK)	1UL	29.61	1.60	31.21	33.01	1.80
			1UL	29.63	1.60	31.23	33.01	1.78
		GPRS (GMSK)	2UL	26.88	1.60	28.48	33.01	4.53
			3UL	24.85	1.60	26.45	33.01	6.56
			4UL	23.53	1.60	25.13	33.01	7.88
			4UL	23.53	1.60	25.13	33.01	7.88
		EDGE (8PSK)	1UL	25.25	1.60	26.85	33.01	6.16
			2UL	22.53	1.60	24.13	33.01	8.88
			3UL	20.30	1.60	21.90	33.01	11.11
			4UL	19.06	1.60	20.66	33.01	12.35
810 High	1909.8	GSM (GMSK)	1UL	30.28	1.60	31.88	33.01	1.13
			1UL	30.30	1.60	31.90	33.01	1.11
		GPRS (GMSK)	2UL	27.24	1.60	28.84	33.01	4.17
			3UL	25.43	1.60	27.03	33.01	5.98
			4UL	23.91	1.60	25.51	33.01	7.50
			4UL	23.91	1.60	25.51	33.01	7.50
		EDGE (8PSK)	1UL	25.45	1.60	27.05	33.01	5.96
			2UL	22.71	1.60	24.31	33.01	8.70
			3UL	20.61	1.60	22.21	33.01	10.80
			4UL	19.37	1.60	20.97	33.01	12.04

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

The test was performed with Gate function.

RF Output Power

Mode	WCDMA Band II
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Date	Test site	Temperature	Humidity	Engineer
May 29, 2026	SR7	22 deg. C	52 % RH	Takafumi Noguchi

Band II

UL	Freq.	Mode		Conducted Power [dBm]	Ant.Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
Ch #	[MHz]							
9262 Low	1852.4	Rel 99	RMC, 12.2 kbps	22.70	1.60	24.30	33.01	8.71
		HSDPA	Subtest 1	21.69	1.60	23.29	33.01	9.72
			Subtest 2	21.65	1.60	23.25	33.01	9.76
			Subtest 3	21.14	1.60	22.74	33.01	10.27
			Subtest 4	21.14	1.60	22.74	33.01	10.27
		DC-HSDPA	Subtest 1	21.63	1.60	23.23	33.01	9.78
			Subtest 2	21.60	1.60	23.20	33.01	9.81
			Subtest 3	21.20	1.60	22.80	33.01	10.21
			Subtest 4	21.24	1.60	22.84	33.01	10.17
		HSUPA	Subtest 1	21.47	1.60	23.07	33.01	9.94
			Subtest 2	20.58	1.60	22.18	33.01	10.83
			Subtest 3	20.57	1.60	22.17	33.01	10.84
			Subtest 4	21.04	1.60	22.64	33.01	10.37
			Subtest 5	21.67	1.60	23.27	33.01	9.74
		HSPA+	Subtest 1	18.70	1.60	20.30	33.01	12.71
9400 Mid	1880.0	Rel 99	RMC, 12.2 kbps	22.63	1.60	24.23	33.01	8.78
		HSDPA	Subtest 1	21.65	1.60	23.25	33.01	9.76
			Subtest 2	21.58	1.60	23.18	33.01	9.83
			Subtest 3	21.17	1.60	22.77	33.01	10.24
			Subtest 4	21.13	1.60	22.73	33.01	10.28
		DC-HSDPA	Subtest 1	21.54	1.60	23.14	33.01	9.87
			Subtest 2	21.53	1.60	23.13	33.01	9.88
			Subtest 3	21.10	1.60	22.70	33.01	10.31
			Subtest 4	21.13	1.60	22.73	33.01	10.28
		HSUPA	Subtest 1	21.03	1.60	22.63	33.01	10.38
			Subtest 2	20.61	1.60	22.21	33.01	10.80
			Subtest 3	20.63	1.60	22.23	33.01	10.78
			Subtest 4	21.12	1.60	22.72	33.01	10.29
			Subtest 5	21.63	1.60	23.23	33.01	9.78
		HSPA+	Subtest 1	18.57	1.60	20.17	33.01	12.84
9538 High	1907.6	Rel 99	RMC, 12.2 kbps	22.59	1.60	24.19	33.01	8.82
		HSDPA	Subtest 1	21.54	1.60	23.14	33.01	9.87
			Subtest 2	21.50	1.60	23.10	33.01	9.91
			Subtest 3	20.98	1.60	22.58	33.01	10.43
			Subtest 4	21.04	1.60	22.64	33.01	10.37
		DC-HSDPA	Subtest 1	21.53	1.60	23.13	33.01	9.88
			Subtest 2	21.52	1.60	23.12	33.01	9.89
			Subtest 3	21.05	1.60	22.65	33.01	10.36
			Subtest 4	21.05	1.60	22.65	33.01	10.36
		HSUPA	Subtest 1	21.21	1.60	22.81	33.01	10.20
			Subtest 2	20.52	1.60	22.12	33.01	10.89
			Subtest 3	20.18	1.60	21.78	33.01	11.23
			Subtest 4	21.08	1.60	22.68	33.01	10.33
			Subtest 5	21.58	1.60	23.18	33.01	9.83
		HSPA+	Subtest 1	18.64	1.60	20.24	30.00	9.76

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	WCDMA Band IV
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Date	Test site	Temperature	Humidity	Engineer
May 29, 2026	SR7	22 deg. C	52 % RH	Takafumi Noguchi

Band IV

UL	Freq.	Mode		Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
Ch #	[MHz]			[dBm]	[dBi]	[dBm]	[dBm]	[dB]
1312 Low	1712.4	Rel 99	RMC, 12.2 kbps	22.76	1.60	24.36	30.00	5.64
		HSDPA	Subtest 1	21.69	1.60	23.29	30.00	6.71
			Subtest 2	21.69	1.60	23.29	30.00	6.71
			Subtest 3	21.18	1.60	22.78	30.00	7.22
			Subtest 4	21.10	1.60	22.70	30.00	7.30
		DC-HSDPA	Subtest 1	21.75	1.60	23.35	30.00	6.65
			Subtest 2	21.72	1.60	23.32	30.00	6.68
			Subtest 3	21.09	1.60	22.69	30.00	7.31
			Subtest 4	21.15	1.60	22.75	30.00	7.25
		HSUPA	Subtest 1	21.36	1.60	22.96	30.00	7.04
			Subtest 2	20.62	1.60	22.22	30.00	7.78
			Subtest 3	20.63	1.60	22.23	30.00	7.77
			Subtest 4	21.05	1.60	22.65	30.00	7.35
		HSPA+	Subtest 5	21.64	1.60	23.24	30.00	6.76
			Subtest 1	20.85	1.60	22.45	30.00	7.55
1412 Mid	1732.4	Rel 99	RMC, 12.2 kbps	22.99	1.60	24.59	30.00	5.41
		HSDPA	Subtest 1	21.88	1.60	23.48	30.00	6.52
			Subtest 2	21.85	1.60	23.45	30.00	6.55
			Subtest 3	21.47	1.60	23.07	30.00	6.93
			Subtest 4	21.52	1.60	23.12	30.00	6.88
		DC-HSDPA	Subtest 1	21.98	1.60	23.58	30.00	6.42
			Subtest 2	21.93	1.60	23.53	30.00	6.47
			Subtest 3	21.40	1.60	23.00	30.00	7.00
			Subtest 4	21.43	1.60	23.03	30.00	6.97
		HSUPA	Subtest 1	21.79	1.60	23.39	30.00	6.61
			Subtest 2	20.40	1.60	22.00	30.00	8.00
			Subtest 3	20.08	1.60	21.68	30.00	8.32
			Subtest 4	21.36	1.60	22.96	30.00	7.04
		HSPA+	Subtest 5	21.81	1.60	23.41	30.00	6.59
			Subtest 1	20.70	1.60	22.30	30.00	7.70
1513 High	1752.6	Rel 99	RMC, 12.2 kbps	22.95	1.60	24.55	30.00	5.45
		HSDPA	Subtest 1	21.96	1.60	23.56	30.00	6.44
			Subtest 2	21.95	1.60	23.55	30.00	6.45
			Subtest 3	21.44	1.60	23.04	30.00	6.96
			Subtest 4	21.45	1.60	23.05	30.00	6.95
		DC-HSDPA	Subtest 1	22.03	1.60	23.63	30.00	6.37
			Subtest 2	22.02	1.60	23.62	30.00	6.38
			Subtest 3	21.45	1.60	23.05	30.00	6.95
			Subtest 4	21.42	1.60	23.02	30.00	6.98
		HSUPA	Subtest 1	21.25	1.60	22.85	30.00	7.15
			Subtest 2	20.42	1.60	22.02	30.00	7.98
			Subtest 3	20.65	1.60	22.25	30.00	7.75
			Subtest 4	21.41	1.60	23.01	30.00	6.99
		HSPA+	Subtest 5	21.91	1.60	23.51	30.00	6.49
			Subtest 1	20.92	1.60	22.52	30.00	7.48

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	WCDMA Band V
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Date	Test site	Temperature	Humidity	Engineer
May 29, 2026	SR7	22 deg. C	52 % RH	Takafumi Noguchi

Band V

UL	Freq.	Mode		Conducted Power [dBm]	Ant.Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
Ch #	[MHz]							
4132 Low	826.4	Rel 99	RMC, 12.2 kbps	23.13	1.00	21.98	38.45	16.47
		HSDPA	Subtest 1	22.22	1.00	21.07	38.45	17.38
			Subtest 2	22.22	1.00	21.07	38.45	17.38
			Subtest 3	21.73	1.00	20.58	38.45	17.87
			Subtest 4	21.69	1.00	20.54	38.45	17.91
		DC-HSDPA	Subtest 1	22.21	1.00	21.06	38.45	17.39
			Subtest 2	22.20	1.00	21.05	38.45	17.40
			Subtest 3	21.67	1.00	20.52	38.45	17.93
			Subtest 4	21.68	1.00	20.53	38.45	17.92
		HSUPA	Subtest 1	22.10	1.00	20.95	38.45	17.50
			Subtest 2	21.08	1.00	19.93	38.45	18.52
			Subtest 3	20.83	1.00	19.68	38.45	18.77
			Subtest 4	21.59	1.00	20.44	38.45	18.01
			Subtest 5	22.18	1.00	21.03	38.45	17.42
		HSPA+	Subtest 1	19.51	1.00	18.36	38.45	20.09
4182 Mid	836.4	Rel 99	RMC, 12.2 kbps	23.17	1.00	22.02	38.45	16.43
		HSDPA	Subtest 1	22.22	1.00	21.07	38.45	17.38
			Subtest 2	22.22	1.00	21.07	38.45	17.38
			Subtest 3	21.73	1.00	20.58	38.45	17.87
			Subtest 4	21.72	1.00	20.57	38.45	17.88
		DC-HSDPA	Subtest 1	22.19	1.00	21.04	38.45	17.41
			Subtest 2	22.19	1.00	21.04	38.45	17.41
			Subtest 3	21.75	1.00	20.60	38.45	17.85
			Subtest 4	21.73	1.00	20.58	38.45	17.87
		HSUPA	Subtest 1	22.23	1.00	21.08	38.45	17.37
			Subtest 2	21.25	1.00	20.10	38.45	18.35
			Subtest 3	21.18	1.00	20.03	38.45	18.42
			Subtest 4	21.60	1.00	20.45	38.45	18.00
			Subtest 5	22.24	1.00	21.09	38.45	17.36
		HSPA+	Subtest 1	19.04	1.00	17.89	38.45	20.56
4233 High	846.6	Rel 99	RMC, 12.2 kbps	23.39	1.00	22.24	38.45	16.21
		HSDPA	Subtest 1	22.41	1.00	21.26	38.45	17.19
			Subtest 2	22.37	1.00	21.22	38.45	17.23
			Subtest 3	21.87	1.00	20.72	38.45	17.73
			Subtest 4	21.85	1.00	20.70	38.45	17.75
		DC-HSDPA	Subtest 1	22.38	1.00	21.23	38.45	17.22
			Subtest 2	22.37	1.00	21.22	38.45	17.23
			Subtest 3	21.88	1.00	20.73	38.45	17.72
			Subtest 4	21.91	1.00	20.76	38.45	17.69
		HSUPA	Subtest 1	22.23	1.00	21.08	38.45	17.37
			Subtest 2	20.97	1.00	19.82	38.45	18.63
			Subtest 3	21.30	1.00	20.15	38.45	18.30
			Subtest 4	21.30	1.00	20.15	38.45	18.30
			Subtest 5	22.41	1.00	21.26	38.45	17.19
		HSPA+	Subtest 1	19.44	1.00	18.29	38.45	20.16

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 2
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Date	Test site	Temperature	Humidity	Engineer
May 19, 2026	SR7	24 deg. C	44 % RH	Takafumi Noguchi

Band 2

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
1.4	18607 Low	1850.7	QPSK	1	0	22.61	1.60	24.21	33.01	8.80
				1	2	22.61	1.60	24.21	33.01	8.80
				1	5	22.55	1.60	24.15	33.01	8.86
				3	0	22.24	1.60	23.84	33.01	9.17
				3	1	22.35	1.60	23.95	33.01	9.06
				3	3	22.22	1.60	23.82	33.01	9.19
			16QAM	6	0	21.34	1.60	22.94	33.01	10.07
				1	0	21.27	1.60	22.87	33.01	10.14
				1	2	21.39	1.60	22.99	33.01	10.02
				1	5	21.28	1.60	22.88	33.01	10.13
				3	0	21.31	1.60	22.91	33.01	10.10
				3	1	21.32	1.60	22.92	33.01	10.09
	18900 Mid	1880	QPSK	3	3	21.30	1.60	22.90	33.01	10.11
				6	0	20.20	1.60	21.80	33.01	11.21
				1	0	22.26	1.60	23.86	33.01	9.15
				1	2	22.33	1.60	23.93	33.01	9.08
				1	5	22.17	1.60	23.77	33.01	9.24
				3	0	22.04	1.60	23.64	33.01	9.37
			16QAM	3	1	22.12	1.60	23.72	33.01	9.29
				3	3	22.03	1.60	23.63	33.01	9.38
				6	0	21.17	1.60	22.77	33.01	10.24
				1	0	21.17	1.60	22.77	33.01	10.24
				1	2	21.27	1.60	22.87	33.01	10.14
				1	5	21.18	1.60	22.78	33.01	10.23
	19193 High	1909.3	QPSK	3	0	21.08	1.60	22.68	33.01	10.33
				3	1	21.12	1.60	22.72	33.01	10.29
				3	3	21.10	1.60	22.70	33.01	10.31
				6	0	20.07	1.60	21.67	33.01	11.34
			16QAM	1	0	22.39	1.60	23.99	33.01	9.02
				1	2	22.54	1.60	24.14	33.01	8.87
				1	5	22.30	1.60	23.90	33.01	9.11
				3	0	22.24	1.60	23.84	33.01	9.17
				3	1	22.29	1.60	23.89	33.01	9.12
				3	3	22.21	1.60	23.81	33.01	9.20
			16QAM	6	0	21.28	1.60	22.88	33.01	10.13
				1	0	21.38	1.60	22.98	33.01	10.03
				1	2	21.46	1.60	23.06	33.01	9.95
				1	5	21.37	1.60	22.97	33.01	10.04
				3	0	21.29	1.60	22.89	33.01	10.12
				3	1	21.32	1.60	22.92	33.01	10.09
				3	3	21.28	1.60	22.88	33.01	10.13
				6	0	20.17	1.60	21.77	33.01	11.24

EIRP = Conducted Power* + Ant. Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 2				
Date	Test site	Temperature	Humidity	Engineer	
May 19, 2026	SR7	24 deg. C	44 % RH	Takafumi Noguchi	

Band 2										
BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant. Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
3	18615 Low	1851.5	QPSK	1	0	22.33	1.60	23.93	33.01	9.08
				1	7	22.51	1.60	24.11	33.01	8.90
				1	14	22.34	1.60	23.94	33.01	9.07
				8	0	21.22	1.60	22.82	33.01	10.19
				8	4	21.21	1.60	22.81	33.01	10.20
				8	7	21.30	1.60	22.90	33.01	10.11
				15	0	21.28	1.60	22.88	33.01	10.13
			16QAM	1	0	21.26	1.60	22.86	33.01	10.15
				1	7	21.48	1.60	23.08	33.01	9.93
				1	14	21.30	1.60	22.90	33.01	10.11
				8	0	20.27	1.60	21.87	33.01	11.14
				8	4	20.27	1.60	21.87	33.01	11.14
				8	7	20.26	1.60	21.86	33.01	11.15
				15	0	20.23	1.60	21.83	33.01	11.18
	18900 Mid	1880	QPSK	1	0	22.19	1.60	23.79	33.01	9.22
				1	7	22.42	1.60	24.02	33.01	8.99
				1	14	22.22	1.60	23.82	33.01	9.19
				8	0	21.10	1.60	22.70	33.01	10.31
				8	4	21.16	1.60	22.76	33.01	10.25
				8	7	21.13	1.60	22.73	33.01	10.28
				15	0	21.05	1.60	22.65	33.01	10.36
			16QAM	1	0	21.13	1.60	22.73	33.01	10.28
				1	7	21.36	1.60	22.96	33.01	10.05
				1	14	21.24	1.60	22.84	33.01	10.17
				8	0	20.10	1.60	21.70	33.01	11.31
				8	4	20.14	1.60	21.74	33.01	11.27
				8	7	20.14	1.60	21.74	33.01	11.27
				15	0	20.05	1.60	21.65	33.01	11.36
	19185 High	1908.5	QPSK	1	0	22.42	1.60	24.02	33.01	8.99
				1	7	22.60	1.60	24.20	33.01	8.81
				1	14	22.32	1.60	23.92	33.01	9.09
				8	0	21.33	1.60	22.93	33.01	10.08
				8	4	21.33	1.60	22.93	33.01	10.08
				8	7	21.35	1.60	22.95	33.01	10.06
				15	0	21.37	1.60	22.97	33.01	10.04
			16QAM	1	0	21.32	1.60	22.92	33.01	10.09
				1	7	21.55	1.60	23.15	33.01	9.86
				1	14	21.36	1.60	22.96	33.01	10.05
				8	0	20.29	1.60	21.89	33.01	11.12
				8	4	20.28	1.60	21.88	33.01	11.13
				8	7	20.26	1.60	21.86	33.01	11.15
				15	0	20.26	1.60	21.86	33.01	11.15

EIRP = Conducted Power* + Ant. Gain
* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 2
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Date	Test site	Temperature	Humidity	Engineer
May 19, 2026	SR7	24 deg. C	44 % RH	Takafumi Noguchi

Band 2

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant. Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
5	18625 Low	1852.5	QPSK	1	0	22.66	1.60	24.26	33.01	8.75
				1	12	22.66	1.60	24.26	33.01	8.75
				1	24	22.49	1.60	24.09	33.01	8.92
				12	0	21.27	1.60	22.87	33.01	10.14
				12	6	21.26	1.60	22.86	33.01	10.15
				12	13	21.24	1.60	22.84	33.01	10.17
				25	0	21.30	1.60	22.90	33.01	10.11
			16QAM	1	0	21.29	1.60	22.89	33.01	10.12
				1	12	21.52	1.60	23.12	33.01	9.89
				1	24	21.19	1.60	22.79	33.01	10.22
				12	0	20.28	1.60	21.88	33.01	11.13
				12	6	20.28	1.60	21.88	33.01	11.13
				12	13	20.25	1.60	21.85	33.01	11.16
				25	0	20.20	1.60	21.80	33.01	11.21
	18900 Mid	1880	QPSK	1	0	22.16	1.60	23.76	33.01	9.25
				1	12	22.54	1.60	24.14	33.01	8.87
				1	24	22.24	1.60	23.84	33.01	9.17
				12	0	21.14	1.60	22.74	33.01	10.27
				12	6	21.20	1.60	22.80	33.01	10.21
				12	13	21.16	1.60	22.76	33.01	10.25
				25	0	21.19	1.60	22.79	33.01	10.22
			16QAM	1	0	21.08	1.60	22.68	33.01	10.33
				1	12	21.41	1.60	23.01	33.01	10.00
				1	24	21.26	1.60	22.86	33.01	10.15
				12	0	20.13	1.60	21.73	33.01	11.28
				12	6	20.18	1.60	21.78	33.01	11.23
				12	13	20.21	1.60	21.81	33.01	11.20
				25	0	20.12	1.60	21.72	33.01	11.29
	19175 High	1907.5	QPSK	1	0	22.25	1.60	23.85	33.01	9.16
				1	12	22.56	1.60	24.16	33.01	8.85
				1	24	22.33	1.60	23.93	33.01	9.08
				12	0	21.25	1.60	22.85	33.01	10.16
				12	6	21.26	1.60	22.86	33.01	10.15
				12	13	21.26	1.60	22.86	33.01	10.15
				25	0	21.20	1.60	22.80	33.01	10.21
			16QAM	1	0	21.07	1.60	22.67	33.01	10.34
				1	12	21.51	1.60	23.11	33.01	9.90
				1	24	21.28	1.60	22.88	33.01	10.13
				12	0	20.26	1.60	21.86	33.01	11.15
				12	6	20.25	1.60	21.85	33.01	11.16
				12	13	20.21	1.60	21.81	33.01	11.20
				25	0	20.21	1.60	21.81	33.01	11.20

EIRP = Conducted Power* + Ant. Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 2
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Date	Test site	Temperature	Humidity	Engineer
May 19, 2026	SR7	24 deg. C	44 % RH	Takafumi Noguchi

Band 2

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
10	18650 Low	1855	QPSK	1	0	22.55	1.60	24.15	33.01	8.86
				1	24	22.55	1.60	24.15	33.01	8.86
				1	49	22.42	1.60	24.02	33.01	8.99
				25	0	21.30	1.60	22.90	33.01	10.11
				25	12	21.33	1.60	22.93	33.01	10.08
				25	25	21.22	1.60	22.82	33.01	10.19
			16QAM	50	0	21.23	1.60	22.83	33.01	10.18
				1	0	21.20	1.60	22.80	33.01	10.21
				1	24	21.29	1.60	22.89	33.01	10.12
				1	49	21.17	1.60	22.77	33.01	10.24
				15	0	20.14	1.60	21.74	33.01	11.27
				15	17	20.11	1.60	21.71	33.01	11.30
				15	35	20.07	1.60	21.67	33.01	11.34
				27	0	20.14	1.60	21.74	33.01	11.27
				27	11	20.16	1.60	21.76	33.01	11.25
				27	23	20.07	1.60	21.67	33.01	11.34
	18900 Mid	1880	QPSK	1	0	22.34	1.60	23.94	33.01	9.07
				1	24	22.44	1.60	24.04	33.01	8.97
				1	49	22.30	1.60	23.90	33.01	9.11
				25	0	21.09	1.60	22.69	33.01	10.32
				25	12	21.18	1.60	22.78	33.01	10.23
				25	25	21.12	1.60	22.72	33.01	10.29
			16QAM	50	0	21.06	1.60	22.66	33.01	10.35
				1	0	21.13	1.60	22.73	33.01	10.28
				1	24	21.22	1.60	22.82	33.01	10.19
				1	49	21.14	1.60	22.74	33.01	10.27
				15	0	20.11	1.60	21.71	33.01	11.30
				15	17	20.11	1.60	21.71	33.01	11.30
				15	35	20.20	1.60	21.80	33.01	11.21
				27	0	20.12	1.60	21.72	33.01	11.29
				27	11	20.11	1.60	21.71	33.01	11.30
				27	23	20.10	1.60	21.70	33.01	11.31
	19150 High	1905	QPSK	1	0	22.50	1.60	24.10	33.01	8.91
				1	24	22.50	1.60	24.10	33.01	8.91
				1	49	22.46	1.60	24.06	33.01	8.95
				25	0	21.24	1.60	22.84	33.01	10.17
				25	12	21.23	1.60	22.83	33.01	10.18
				25	25	21.26	1.60	22.86	33.01	10.15
			16QAM	50	0	21.20	1.60	22.80	33.01	10.21
				1	0	21.21	1.60	22.81	33.01	10.20
				1	24	21.33	1.60	22.93	33.01	10.08
				1	49	21.27	1.60	22.87	33.01	10.14
				15	0	20.17	1.60	21.77	33.01	11.24
				15	17	20.13	1.60	21.73	33.01	11.28
				15	35	20.19	1.60	21.79	33.01	11.22
				27	0	20.17	1.60	21.77	33.01	11.24
				27	11	20.19	1.60	21.79	33.01	11.22
				27	23	20.21	1.60	21.81	33.01	11.20

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 2
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Date	Test site	Temperature	Humidity	Engineer
May 19, 2026	SR7	24 deg. C	44 % RH	Takafumi Noguchi

Band 2

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
15	18675 Low	1857.5	QPSK	1	0	22.47	1.60	24.07	33.01	8.94
				1	37	22.54	1.60	24.14	33.01	8.87
				1	74	22.28	1.60	23.88	33.01	9.13
				36	0	21.24	1.60	22.84	33.01	10.17
				36	19	21.20	1.60	22.80	33.01	10.21
				36	39	21.13	1.60	22.73	33.01	10.28
				75	0	21.12	1.60	22.72	33.01	10.29
			16QAM	1	0	21.19	1.60	22.79	33.01	10.22
				1	37	21.30	1.60	22.90	33.01	10.11
				1	74	21.12	1.60	22.72	33.01	10.29
				15	0	21.19	1.60	22.79	33.01	10.22
				15	30	21.12	1.60	22.72	33.01	10.29
				15	60	21.05	1.60	22.65	33.01	10.36
				27	0	20.14	1.60	21.74	33.01	11.27
				27	24	20.11	1.60	21.71	33.01	11.30
				27	48	20.01	1.60	21.61	33.01	11.40
	18900 Mid	1880	QPSK	1	0	22.27	1.60	23.87	33.01	9.14
				1	37	22.55	1.60	24.15	33.01	8.86
				1	74	22.29	1.60	23.89	33.01	9.12
				36	0	21.13	1.60	22.73	33.01	10.28
				36	19	21.13	1.60	22.73	33.01	10.28
				36	39	21.11	1.60	22.71	33.01	10.30
				75	0	21.12	1.60	22.72	33.01	10.29
			16QAM	1	0	21.13	1.60	22.73	33.01	10.28
				1	37	21.42	1.60	23.02	33.01	9.99
				1	74	21.13	1.60	22.73	33.01	10.28
				15	0	21.13	1.60	22.73	33.01	10.28
				15	30	21.09	1.60	22.69	33.01	10.32
				15	60	21.08	1.60	22.68	33.01	10.33
				27	0	20.06	1.60	21.66	33.01	11.35
				27	24	20.06	1.60	21.66	33.01	11.35
				27	48	20.07	1.60	21.67	33.01	11.34
	19125 High	1902.5	QPSK	1	0	22.34	1.60	23.94	33.01	9.07
				1	37	22.63	1.60	24.23	33.01	8.78
				1	74	22.38	1.60	23.98	33.01	9.03
				36	0	21.27	1.60	22.87	33.01	10.14
				36	19	21.25	1.60	22.85	33.01	10.16
				36	39	21.17	1.60	22.77	33.01	10.24
				75	0	21.21	1.60	22.81	33.01	10.20
			16QAM	1	0	21.27	1.60	22.87	33.01	10.14
				1	37	21.44	1.60	23.04	33.01	9.97
				1	74	21.24	1.60	22.84	33.01	10.17
				15	0	21.17	1.60	22.77	33.01	10.24
				15	30	21.13	1.60	22.73	33.01	10.28
				15	60	21.24	1.60	22.84	33.01	10.17
				27	0	20.17	1.60	21.77	33.01	11.24
				27	24	20.13	1.60	21.73	33.01	11.28
				27	48	20.14	1.60	21.74	33.01	11.27

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 2				
Date	Test site	Temperature	Humidity	Engineer	
May 19, 2026	SR7	24 deg. C	44 % RH	Takafumi Noguchi	

Band 2										
BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
20	18700 Low	1860	QPSK	1	0	22.44	1.60	24.04	33.01	8.97
				1	49	22.67	1.60	24.27	33.01	8.74
				1	99	22.29	1.60	23.89	33.01	9.12
				50	0	21.32	1.60	22.92	33.01	10.09
				50	24	21.16	1.60	22.76	33.01	10.25
			16QAM	50	50	21.09	1.60	22.69	33.01	10.32
				100	0	21.11	1.60	22.71	33.01	10.30
				1	0	21.28	1.60	22.88	33.01	10.13
				1	49	21.33	1.60	22.93	33.01	10.08
				1	99	21.01	1.60	22.61	33.01	10.40
				15	0	21.22	1.60	22.82	33.01	10.19
				15	42	21.25	1.60	22.85	33.01	10.16
				15	85	20.95	1.60	22.55	33.01	10.46
				27	0	20.13	1.60	21.73	33.01	11.28
				27	36	20.06	1.60	21.66	33.01	11.35
				27	73	19.91	1.60	21.51	33.01	11.50
	18900 Mid	1880	QPSK	1	0	22.18	1.60	23.78	33.01	9.23
				1	49	22.56	1.60	24.16	33.01	8.85
				1	99	22.22	1.60	23.82	33.01	9.19
				50	0	21.08	1.60	22.68	33.01	10.33
				50	24	21.10	1.60	22.70	33.01	10.31
			16QAM	50	50	21.10	1.60	22.70	33.01	10.31
				100	0	21.05	1.60	22.65	33.01	10.36
				1	0	21.13	1.60	22.73	33.01	10.28
				1	49	21.31	1.60	22.91	33.01	10.10
				1	99	21.14	1.60	22.74	33.01	10.27
				15	0	21.13	1.60	22.73	33.01	10.28
				15	42	21.09	1.60	22.69	33.01	10.32
				15	85	21.12	1.60	22.72	33.01	10.29
				27	0	20.06	1.60	21.66	33.01	11.35
				27	36	20.08	1.60	21.68	33.01	11.33
				27	73	20.08	1.60	21.68	33.01	11.33
	19100 High	1900	QPSK	1	0	22.35	1.60	23.95	33.01	9.06
				1	49	22.64	1.60	24.24	33.01	8.77
				1	99	22.32	1.60	23.92	33.01	9.09
				50	0	21.17	1.60	22.77	33.01	10.24
				50	24	21.15	1.60	22.75	33.01	10.26
			16QAM	50	50	21.14	1.60	22.74	33.01	10.27
				100	0	21.15	1.60	22.75	33.01	10.26
				1	0	21.19	1.60	22.79	33.01	10.22
				1	49	21.30	1.60	22.90	33.01	10.11
				1	99	21.21	1.60	22.81	33.01	10.20
				15	0	21.19	1.60	22.79	33.01	10.22
				15	42	21.12	1.60	22.72	33.01	10.29
				15	85	21.21	1.60	22.81	33.01	10.20
				27	0	20.18	1.60	21.78	33.01	11.23
				27	36	20.11	1.60	21.71	33.01	11.30
				27	73	20.13	1.60	21.73	33.01	11.28

EIRP = Conducted Power* + Ant.Gain
* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 4
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Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SR7	25 deg. C	40 % RH	Takafumi Noguchi

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant. Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
1.4	19957 Low	1710.7	QPSK	1	0	22.40	1.60	24.00	30.00	6.00
				1	2	22.40	1.60	24.00	30.00	6.00
				1	5	22.32	1.60	23.92	30.00	6.08
				3	0	22.21	1.60	23.81	30.00	6.19
				3	1	22.23	1.60	23.83	30.00	6.17
				3	3	22.23	1.60	23.83	30.00	6.17
			16QAM	6	0	21.20	1.60	22.80	30.00	7.20
				1	0	21.25	1.60	22.85	30.00	7.15
				1	2	21.35	1.60	22.95	30.00	7.05
				1	5	21.19	1.60	22.79	30.00	7.21
				3	0	21.19	1.60	22.79	30.00	7.21
				3	1	21.20	1.60	22.80	30.00	7.20
				3	3	21.23	1.60	22.83	30.00	7.17
				6	0	20.21	1.60	21.81	30.00	8.19
	20175 Mid	1732.5	QPSK	1	0	22.34	1.60	23.94	30.00	6.06
				1	2	22.62	1.60	24.22	30.00	5.78
				1	5	22.51	1.60	24.11	30.00	5.89
				3	0	22.29	1.60	23.89	30.00	6.11
				3	1	22.45	1.60	24.05	30.00	5.95
				3	3	22.28	1.60	23.88	30.00	6.12
			16QAM	6	0	21.32	1.60	22.92	30.00	7.08
				1	0	21.29	1.60	22.89	30.00	7.11
				1	2	21.48	1.60	23.08	30.00	6.92
				1	5	21.34	1.60	22.94	30.00	7.06
				3	0	21.42	1.60	23.02	30.00	6.98
				3	1	21.49	1.60	23.09	30.00	6.91
	20393 High	1754.3	QPSK	3	3	21.39	1.60	22.99	30.00	7.01
				6	0	20.34	1.60	21.94	30.00	8.06
			16QAM	1	0	22.43	1.60	24.03	30.00	5.97
				1	2	22.57	1.60	24.17	30.00	5.83
				1	5	22.49	1.60	24.09	30.00	5.91
				3	0	22.31	1.60	23.91	30.00	6.09
			QPSK	3	1	22.37	1.60	23.97	30.00	6.03
				3	3	22.19	1.60	23.79	30.00	6.21
				6	0	21.19	1.60	22.79	30.00	7.21
			16QAM	1	0	21.23	1.60	22.83	30.00	7.17
				1	2	21.36	1.60	22.96	30.00	7.04
				1	5	21.30	1.60	22.90	30.00	7.10
				3	0	21.22	1.60	22.82	30.00	7.18
				3	1	21.24	1.60	22.84	30.00	7.16
				3	3	21.21	1.60	22.81	30.00	7.19
				6	0	20.29	1.60	21.89	30.00	8.11

EIRP = Conducted Power* + Ant. Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 4
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Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SR7	25 deg. C	40 % RH	Takafumi Noguchi

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant. Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
3	19965 Low	1711.5	QPSK	1	0	22.22	1.60	23.82	30.00	6.18
				1	7	22.25	1.60	23.85	30.00	6.15
				1	14	22.20	1.60	23.80	30.00	6.20
				8	0	21.20	1.60	22.80	30.00	7.20
				8	4	21.15	1.60	22.75	30.00	7.25
				8	7	21.17	1.60	22.77	30.00	7.23
				15	0	21.08	1.60	22.68	30.00	7.32
			16QAM	1	0	21.21	1.60	22.81	30.00	7.19
				1	7	21.39	1.60	22.99	30.00	7.01
				1	14	21.14	1.60	22.74	30.00	7.26
				8	0	20.20	1.60	21.80	30.00	8.20
				8	4	20.21	1.60	21.81	30.00	8.19
				8	7	20.18	1.60	21.78	30.00	8.22
				15	0	20.16	1.60	21.76	30.00	8.24
	20175 Mid	1732.5	QPSK	1	0	22.25	1.60	23.85	30.00	6.15
				1	7	22.50	1.60	24.10	30.00	5.90
				1	14	22.30	1.60	23.90	30.00	6.10
				8	0	21.40	1.60	23.00	30.00	7.00
				8	4	21.37	1.60	22.97	30.00	7.03
				8	7	21.39	1.60	22.99	30.00	7.01
				15	0	21.34	1.60	22.94	30.00	7.06
			16QAM	1	0	21.16	1.60	22.76	30.00	7.24
				1	7	21.58	1.60	23.18	30.00	6.82
				1	14	21.23	1.60	22.83	30.00	7.17
				8	0	20.39	1.60	21.99	30.00	8.01
				8	4	20.39	1.60	21.99	30.00	8.01
				8	7	20.37	1.60	21.97	30.00	8.03
				15	0	20.35	1.60	21.95	30.00	8.05
	20385 High	1753.5	QPSK	1	0	22.42	1.60	24.02	30.00	5.98
				1	7	22.46	1.60	24.06	30.00	5.94
				1	14	22.41	1.60	24.01	30.00	5.99
				8	0	21.32	1.60	22.92	30.00	7.08
				8	4	21.30	1.60	22.90	30.00	7.10
				8	7	21.27	1.60	22.87	30.00	7.13
				15	0	21.27	1.60	22.87	30.00	7.13
			16QAM	1	0	21.30	1.60	22.90	30.00	7.10
				1	7	21.45	1.60	23.05	30.00	6.95
				1	14	21.33	1.60	22.93	30.00	7.07
				8	0	20.29	1.60	21.89	30.00	8.11
				8	4	20.26	1.60	21.86	30.00	8.14
				8	7	20.30	1.60	21.90	30.00	8.10
				15	0	20.28	1.60	21.88	30.00	8.12

EIRP = Conducted Power* + Ant. Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 4
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Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SR7	25 deg. C	40 % RH	Takafumi Noguchi

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
5	19975 Low	1712.5	QPSK	1	0	22.25	1.60	23.85	30.00	6.15
				1	12	22.33	1.60	23.93	30.00	6.07
				1	24	22.13	1.60	23.73	30.00	6.27
				12	0	21.14	1.60	22.74	30.00	7.26
				12	6	21.14	1.60	22.74	30.00	7.26
				12	13	21.02	1.60	22.62	30.00	7.38
				25	0	21.02	1.60	22.62	30.00	7.38
			16QAM	1	0	21.16	1.60	22.76	30.00	7.24
				1	12	21.34	1.60	22.94	30.00	7.06
				1	24	21.03	1.60	22.63	30.00	7.37
				12	0	20.17	1.60	21.77	30.00	8.23
				12	6	20.11	1.60	21.71	30.00	8.29
				12	13	20.09	1.60	21.69	30.00	8.31
				25	0	20.10	1.60	21.70	30.00	8.30
	20175 Mid	1732.5	QPSK	1	0	22.13	1.60	23.73	30.00	6.27
				1	12	22.48	1.60	24.08	30.00	5.92
				1	24	22.41	1.60	24.01	30.00	5.99
				12	0	21.11	1.60	22.71	30.00	7.29
				12	6	21.38	1.60	22.98	30.00	7.02
				12	13	21.30	1.60	22.90	30.00	7.10
				25	0	21.20	1.60	22.80	30.00	7.20
			16QAM	1	0	21.09	1.60	22.69	30.00	7.31
				1	12	21.51	1.60	23.11	30.00	6.89
				1	24	21.17	1.60	22.77	30.00	7.23
				12	0	20.24	1.60	21.84	30.00	8.16
				12	6	20.52	1.60	22.12	30.00	7.88
				12	13	20.47	1.60	22.07	30.00	7.93
				25	0	20.30	1.60	21.90	30.00	8.10
	20375 High	1752.5	QPSK	1	0	22.29	1.60	23.89	30.00	6.11
				1	12	22.64	1.60	24.24	30.00	5.76
				1	24	22.52	1.60	24.12	30.00	5.88
				12	0	21.39	1.60	22.99	30.00	7.01
				12	6	21.40	1.60	23.00	30.00	7.00
				12	13	21.40	1.60	23.00	30.00	7.00
				25	0	21.45	1.60	23.05	30.00	6.95
			16QAM	1	0	21.28	1.60	22.88	30.00	7.12
				1	12	21.64	1.60	23.24	30.00	6.76
				1	24	21.34	1.60	22.94	30.00	7.06
				12	0	20.40	1.60	22.00	30.00	8.00
				12	6	20.43	1.60	22.03	30.00	7.97
				12	13	20.45	1.60	22.05	30.00	7.95
				25	0	20.43	1.60	22.03	30.00	7.97

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 4
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Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SR7	25 deg. C	40 % RH	Takafumi Noguchi

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin		
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]		
10	20000 Low	1715	QPSK	1	0	22.39	1.60	23.99	30.00	6.01		
				1	24	22.58	1.60	24.18	30.00	5.82		
				1	49	22.25	1.60	23.85	30.00	6.15		
				25	0	21.10	1.60	22.70	30.00	7.30		
				25	12	21.12	1.60	22.72	30.00	7.28		
				25	25	21.07	1.60	22.67	30.00	7.33		
				50	0	21.20	1.60	22.80	30.00	7.20		
				16QAM	1	0	21.25	1.60	22.85	30.00	7.15	
					1	24	21.28	1.60	22.88	30.00	7.12	
			1		49	21.24	1.60	22.84	30.00	7.16		
			15		0	20.08	1.60	21.68	30.00	8.32		
			15		17	20.13	1.60	21.73	30.00	8.27		
			15		35	20.22	1.60	21.82	30.00	8.18		
			27		0	20.16	1.60	21.76	30.00	8.24		
			27		11	20.18	1.60	21.78	30.00	8.22		
			27		23	20.15	1.60	21.75	30.00	8.25		
			20175 Mid	1732.5	QPSK	1	0	22.35	1.60	23.95	30.00	6.05
						1	24	22.59	1.60	24.19	30.00	5.81
						1	49	22.39	1.60	23.99	30.00	6.01
						25	0	21.24	1.60	22.84	30.00	7.16
						25	12	21.30	1.60	22.90	30.00	7.10
						25	25	21.28	1.60	22.88	30.00	7.12
						50	0	21.22	1.60	22.82	30.00	7.18
						16QAM	1	0	21.28	1.60	22.88	30.00
	1	24					21.61	1.60	23.21	30.00	6.79	
	1	49			21.32		1.60	22.92	30.00	7.08		
	15	0			20.18		1.60	21.78	30.00	8.22		
	15	17			20.44		1.60	22.04	30.00	7.96		
	15	35			20.21		1.60	21.81	30.00	8.19		
	27	0			20.17		1.60	21.77	30.00	8.23		
	27	11			20.26		1.60	21.86	30.00	8.14		
	27	23			20.34		1.60	21.94	30.00	8.06		
	20350 High	1750			QPSK	1	0	22.47	1.60	24.07	30.00	5.93
						1	24	22.63	1.60	24.23	30.00	5.77
						1	49	22.63	1.60	24.23	30.00	5.77
						25	0	21.42	1.60	23.02	30.00	6.98
						25	12	21.30	1.60	22.90	30.00	7.10
						25	25	21.39	1.60	22.99	30.00	7.01
						50	0	21.34	1.60	22.94	30.00	7.06
						16QAM	1	0	21.33	1.60	22.93	30.00
			1	24			21.49	1.60	23.09	30.00	6.91	
			1	49	21.46		1.60	23.06	30.00	6.94		
			15	0	20.40		1.60	22.00	30.00	8.00		
			15	17	20.33		1.60	21.93	30.00	8.07		
			15	35	20.44		1.60	22.04	30.00	7.96		
			27	0	20.35		1.60	21.95	30.00	8.05		
			27	11	20.36		1.60	21.96	30.00	8.04		
			27	23	20.43		1.60	22.03	30.00	7.97		

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 4
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Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SR7	25 deg. C	40 % RH	Takafumi Noguchi

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
15	20025 Low	1717.5	QPSK	1	0	22.33	1.60	23.93	30.00	6.07
				1	37	22.64	1.60	24.24	30.00	5.76
				1	74	22.34	1.60	23.94	30.00	6.06
				36	0	21.01	1.60	22.61	30.00	7.39
				36	19	21.02	1.60	22.62	30.00	7.38
				36	39	21.01	1.60	22.61	30.00	7.39
				75	0	21.01	1.60	22.61	30.00	7.39
			16QAM	1	0	21.18	1.60	22.78	30.00	7.22
				1	37	21.41	1.60	23.01	30.00	6.99
				1	74	21.16	1.60	22.76	30.00	7.24
				15	0	21.15	1.60	22.75	30.00	7.25
				15	30	21.15	1.60	22.75	30.00	7.25
				15	60	21.13	1.60	22.73	30.00	7.27
				27	0	20.18	1.60	21.78	30.00	8.22
				27	24	20.12	1.60	21.72	30.00	8.28
				27	48	20.06	1.60	21.66	30.00	8.34
				27	72	20.00	1.60	21.60	30.00	8.40
				27	96	19.94	1.60	21.54	30.00	8.46
	20175 Mid	1732.5	QPSK	1	0	22.24	1.60	23.84	30.00	6.16
				1	37	22.69	1.60	24.29	30.00	5.71
				1	74	22.34	1.60	23.94	30.00	6.06
				36	0	21.11	1.60	22.71	30.00	7.29
				36	19	21.27	1.60	22.87	30.00	7.13
				36	39	21.25	1.60	22.85	30.00	7.15
				75	0	21.09	1.60	22.69	30.00	7.31
			16QAM	1	0	21.21	1.60	22.81	30.00	7.19
				1	37	21.64	1.60	23.24	30.00	6.76
				1	74	21.36	1.60	22.96	30.00	7.04
				15	0	21.20	1.60	22.80	30.00	7.20
				15	30	21.44	1.60	23.04	30.00	6.96
				15	60	21.33	1.60	22.93	30.00	7.07
				27	0	20.17	1.60	21.77	30.00	8.23
				27	24	20.28	1.60	21.88	30.00	8.12
				27	48	20.30	1.60	21.90	30.00	8.10
				27	72	20.32	1.60	21.92	30.00	8.08
				27	96	20.34	1.60	21.94	30.00	8.06
	20325 High	1747.5	QPSK	1	0	22.69	1.60	24.29	30.00	5.71
				1	37	22.70	1.60	24.30	30.00	5.70
				1	74	22.64	1.60	24.24	30.00	5.76
				36	0	21.41	1.60	23.01	30.00	6.99
				36	19	21.30	1.60	22.90	30.00	7.10
				36	39	21.42	1.60	23.02	30.00	6.98
				75	0	21.40	1.60	23.00	30.00	7.00
			16QAM	1	0	21.55	1.60	23.15	30.00	6.85
				1	37	21.54	1.60	23.14	30.00	6.86
				1	74	21.54	1.60	23.14	30.00	6.86
				15	0	21.51	1.60	23.11	30.00	6.89
				15	30	21.34	1.60	22.94	30.00	7.06
				15	60	21.38	1.60	22.98	30.00	7.02
				27	0	20.32	1.60	21.92	30.00	8.08
				27	24	20.27	1.60	21.87	30.00	8.13
				27	48	20.40	1.60	22.00	30.00	8.00
				27	72	20.42	1.60	22.02	30.00	7.98
				27	96	20.44	1.60	22.04	30.00	7.96

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 4
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Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SR7	25 deg. C	40 % RH	Takafumi Noguchi

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
20	20050 Low	1720	QPSK	1	0	22.34	1.60	23.94	30.00	6.06
				1	49	22.65	1.60	24.25	30.00	5.75
				1	99	22.41	1.60	24.01	30.00	5.99
				50	0	21.08	1.60	22.68	30.00	7.32
				50	24	21.06	1.60	22.66	30.00	7.34
				50	50	21.12	1.60	22.72	30.00	7.28
				50	73	21.12	1.60	22.72	30.00	7.28
				100	0	21.12	1.60	22.72	30.00	7.28
			16QAM	1	0	21.19	1.60	22.79	30.00	7.21
				1	49	21.35	1.60	22.95	30.00	7.05
				1	99	21.32	1.60	22.92	30.00	7.08
				15	0	20.98	1.60	22.58	30.00	7.42
				15	42	21.09	1.60	22.69	30.00	7.31
				15	85	21.19	1.60	22.79	30.00	7.21
				27	0	20.03	1.60	21.63	30.00	8.37
				27	36	20.03	1.60	21.63	30.00	8.37
				27	73	20.22	1.60	21.82	30.00	8.18
	20175 Mid	1732.5	QPSK	1	0	22.40	1.60	24.00	30.00	6.00
				1	49	22.70	1.60	24.30	30.00	5.70
				1	99	22.47	1.60	24.07	30.00	5.93
				50	0	21.16	1.60	22.76	30.00	7.24
				50	24	21.26	1.60	22.86	30.00	7.14
				50	50	21.32	1.60	22.92	30.00	7.08
				50	73	21.32	1.60	22.92	30.00	7.08
				100	0	21.20	1.60	22.80	30.00	7.20
			16QAM	1	0	21.18	1.60	22.78	30.00	7.22
				1	49	21.56	1.60	23.16	30.00	6.84
				1	99	21.35	1.60	22.95	30.00	7.05
				15	0	21.18	1.60	22.78	30.00	7.22
				15	42	21.47	1.60	23.07	30.00	6.93
				15	85	21.24	1.60	22.84	30.00	7.16
				27	0	20.19	1.60	21.79	30.00	8.21
				27	36	20.26	1.60	21.86	30.00	8.14
				27	73	20.22	1.60	21.82	30.00	8.18
	20300 High	1745	QPSK	1	0	22.56	1.60	24.16	30.00	5.84
				1	49	22.71	1.60	24.31	30.00	5.69
				1	99	22.58	1.60	24.18	30.00	5.82
				50	0	21.49	1.60	23.09	30.00	6.91
				50	24	21.28	1.60	22.88	30.00	7.12
				50	50	21.26	1.60	22.86	30.00	7.14
				50	73	21.26	1.60	22.86	30.00	7.14
				100	0	21.34	1.60	22.94	30.00	7.06
			16QAM	1	0	21.48	1.60	23.08	30.00	6.92
				1	49	21.54	1.60	23.14	30.00	6.86
				1	99	21.44	1.60	23.04	30.00	6.96
				15	0	21.47	1.60	23.07	30.00	6.93
				15	42	21.44	1.60	23.04	30.00	6.96
				15	85	21.44	1.60	23.04	30.00	6.96
				27	0	20.52	1.60	22.12	30.00	7.88
				27	36	20.33	1.60	21.93	30.00	8.07
				27	73	20.34	1.60	21.94	30.00	8.06

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 5
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 5

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
1.4	20407 Low	824.7	QPSK	1	0	22.72	1.00	21.57	38.45	16.88
				1	2	22.98	1.00	21.83	38.45	16.62
				1	5	22.80	1.00	21.65	38.45	16.80
				3	0	22.74	1.00	21.59	38.45	16.86
				3	1	22.89	1.00	21.74	38.45	16.71
				3	3	22.82	1.00	21.67	38.45	16.78
			16QAM	6	0	21.89	1.00	20.74	38.45	17.71
				1	0	21.70	1.00	20.55	38.45	17.90
				1	2	21.87	1.00	20.72	38.45	17.73
				1	5	21.76	1.00	20.61	38.45	17.84
				3	0	21.80	1.00	20.65	38.45	17.80
				3	1	21.87	1.00	20.72	38.45	17.73
				3	3	21.82	1.00	20.67	38.45	17.78
				6	0	20.73	1.00	19.58	38.45	18.87
	20525 Mid	836.5	QPSK	1	0	22.83	1.00	21.68	38.45	16.77
				1	2	22.85	1.00	21.70	38.45	16.75
				1	5	22.83	1.00	21.68	38.45	16.77
				3	0	22.87	1.00	21.72	38.45	16.73
				3	1	22.90	1.00	21.75	38.45	16.70
				3	3	22.82	1.00	21.67	38.45	16.78
			16QAM	6	0	21.81	1.00	20.66	38.45	17.79
				1	0	21.70	1.00	20.55	38.45	17.90
				1	2	21.80	1.00	20.65	38.45	17.80
				1	5	21.64	1.00	20.49	38.45	17.96
				3	0	21.77	1.00	20.62	38.45	17.83
				3	1	21.81	1.00	20.66	38.45	17.79
				3	3	21.77	1.00	20.62	38.45	17.83
				6	0	20.66	1.00	19.51	38.45	18.94
	20643 High	848.3	QPSK	1	0	22.91	1.00	21.76	38.45	16.69
				1	2	23.02	1.00	21.87	38.45	16.58
				1	5	22.93	1.00	21.78	38.45	16.67
				3	0	22.84	1.00	21.69	38.45	16.76
				3	1	22.85	1.00	21.70	38.45	16.75
				3	3	22.82	1.00	21.67	38.45	16.78
			16QAM	6	0	21.90	1.00	20.75	38.45	17.70
				1	0	21.78	1.00	20.63	38.45	17.82
				1	2	21.79	1.00	20.64	38.45	17.81
				1	5	21.66	1.00	20.51	38.45	17.94
				3	0	21.86	1.00	20.71	38.45	17.74
				3	1	21.86	1.00	20.71	38.45	17.74
				3	3	21.86	1.00	20.71	38.45	17.74
				6	0	20.71	1.00	19.56	38.45	18.89

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 5
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 5

BW [MHz]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Conducted Power [dBm]	Ant.Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
3	20415 Low	825.5	QPSK	1	0	22.83	1.00	21.68	38.45	16.77
				1	7	23.11	1.00	21.96	38.45	16.49
				1	14	22.78	1.00	21.63	38.45	16.82
				8	0	21.92	1.00	20.77	38.45	17.68
				8	4	21.88	1.00	20.73	38.45	17.72
				8	7	21.90	1.00	20.75	38.45	17.70
			16QAM	15	0	21.91	1.00	20.76	38.45	17.69
				1	0	21.63	1.00	20.48	38.45	17.97
				1	7	22.03	1.00	20.88	38.45	17.57
				1	14	21.77	1.00	20.62	38.45	17.83
				8	0	20.82	1.00	19.67	38.45	18.78
				8	4	20.87	1.00	19.72	38.45	18.73
				8	7	20.82	1.00	19.67	38.45	18.78
				15	0	20.78	1.00	19.63	38.45	18.82
	20525 Mid	836.5	QPSK	1	0	22.82	1.00	21.67	38.45	16.78
				1	7	22.85	1.00	21.70	38.45	16.75
				1	14	22.78	1.00	21.63	38.45	16.82
				8	0	21.85	1.00	20.70	38.45	17.75
				8	4	21.83	1.00	20.68	38.45	17.77
				8	7	21.85	1.00	20.70	38.45	17.75
			16QAM	15	0	21.81	1.00	20.66	38.45	17.79
				1	0	21.67	1.00	20.52	38.45	17.93
				1	7	21.85	1.00	20.70	38.45	17.75
				1	14	21.62	1.00	20.47	38.45	17.98
				8	0	20.72	1.00	19.57	38.45	18.88
				8	4	20.73	1.00	19.58	38.45	18.87
				8	7	20.71	1.00	19.56	38.45	18.89
				15	0	20.73	1.00	19.58	38.45	18.87
	20635 High	847.5	QPSK	1	0	23.01	1.00	21.86	38.45	16.59
				1	7	23.07	1.00	21.92	38.45	16.53
				1	14	22.85	1.00	21.70	38.45	16.75
				8	0	21.91	1.00	20.76	38.45	17.69
				8	4	21.89	1.00	20.74	38.45	17.71
				8	7	21.89	1.00	20.74	38.45	17.71
			16QAM	15	0	21.90	1.00	20.75	38.45	17.70
				1	0	21.71	1.00	20.56	38.45	17.89
				1	7	21.99	1.00	20.84	38.45	17.61
				1	14	21.63	1.00	20.48	38.45	17.97
				8	0	20.84	1.00	19.69	38.45	18.76
				8	4	20.88	1.00	19.73	38.45	18.72
				8	7	20.76	1.00	19.61	38.45	18.84
				15	0	20.75	1.00	19.60	38.45	18.85

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 5
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 5

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
5	20425 Low	826.5	QPSK	1	0	22.69	1.00	21.54	38.45	16.91
				1	12	22.90	1.00	21.75	38.45	16.70
				1	24	22.78	1.00	21.63	38.45	16.82
				12	0	21.84	1.00	20.69	38.45	17.76
				12	6	21.81	1.00	20.66	38.45	17.79
				12	13	21.81	1.00	20.66	38.45	17.79
				25	0	21.78	1.00	20.63	38.45	17.82
			16QAM	1	0	21.56	1.00	20.41	38.45	18.04
				1	12	22.00	1.00	20.85	38.45	17.60
				1	24	21.63	1.00	20.48	38.45	17.97
				12	0	20.79	1.00	19.64	38.45	18.81
				12	6	20.82	1.00	19.67	38.45	18.78
				12	13	20.74	1.00	19.59	38.45	18.86
				25	0	20.79	1.00	19.64	38.45	18.81
	20525 Mid	836.5	QPSK	1	0	22.73	1.00	21.58	38.45	16.87
				1	12	22.83	1.00	21.68	38.45	16.77
				1	24	22.76	1.00	21.61	38.45	16.84
				12	0	21.67	1.00	20.52	38.45	17.93
				12	6	21.69	1.00	20.54	38.45	17.91
				12	13	21.69	1.00	20.54	38.45	17.91
				25	0	21.70	1.00	20.55	38.45	17.90
			16QAM	1	0	21.69	1.00	20.54	38.45	17.91
				1	12	21.91	1.00	20.76	38.45	17.69
				1	24	21.53	1.00	20.38	38.45	18.07
				12	0	20.76	1.00	19.61	38.45	18.84
				12	6	20.73	1.00	19.58	38.45	18.87
				12	13	20.68	1.00	19.53	38.45	18.92
				25	0	20.73	1.00	19.58	38.45	18.87
	20625 High	846.5	QPSK	1	0	22.89	1.00	21.74	38.45	16.71
				1	12	23.02	1.00	21.87	38.45	16.58
				1	24	22.72	1.00	21.57	38.45	16.88
				12	0	21.88	1.00	20.73	38.45	17.72
				12	6	21.79	1.00	20.64	38.45	17.81
				12	13	21.65	1.00	20.50	38.45	17.95
				25	0	21.92	1.00	20.77	38.45	17.68
			16QAM	1	0	21.72	1.00	20.57	38.45	17.88
				1	12	21.87	1.00	20.72	38.45	17.73
				1	24	21.48	1.00	20.33	38.45	18.12
				12	0	20.98	1.00	19.83	38.45	18.62
				12	6	20.99	1.00	19.84	38.45	18.61
				12	13	20.78	1.00	19.63	38.45	18.82
				25	0	20.79	1.00	19.64	38.45	18.81

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 5
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 5

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
10	20450 Low	829	QPSK	1	0	22.81	1.00	21.66	38.45	16.79
				1	24	23.12	1.00	21.97	38.45	16.48
				1	49	22.76	1.00	21.61	38.45	16.84
				25	0	21.67	1.00	20.52	38.45	17.93
				25	12	21.71	1.00	20.56	38.45	17.89
				25	25	21.61	1.00	20.46	38.45	17.99
				50	0	21.68	1.00	20.53	38.45	17.92
			16QAM	1	0	21.59	1.00	20.44	38.45	18.01
				1	24	21.74	1.00	20.59	38.45	17.86
				1	49	21.53	1.00	20.38	38.45	18.07
				15	0	20.79	1.00	19.64	38.45	18.81
				15	17	20.84	1.00	19.69	38.45	18.76
				15	35	20.71	1.00	19.56	38.45	18.89
				27	0	20.77	1.00	19.62	38.45	18.83
				27	11	20.79	1.00	19.64	38.45	18.81
				27	23	20.69	1.00	19.54	38.45	18.91
	20525 Mid	836.5	QPSK	1	0	22.74	1.00	21.59	38.45	16.86
				1	24	22.86	1.00	21.71	38.45	16.74
				1	49	22.67	1.00	21.52	38.45	16.93
				25	0	21.71	1.00	20.56	38.45	17.89
				25	12	21.72	1.00	20.57	38.45	17.88
				25	25	21.63	1.00	20.48	38.45	17.97
				50	0	21.71	1.00	20.56	38.45	17.89
			16QAM	1	0	21.44	1.00	20.29	38.45	18.16
				1	24	21.66	1.00	20.51	38.45	17.94
				1	49	21.51	1.00	20.36	38.45	18.09
				15	0	20.75	1.00	19.60	38.45	18.85
				15	17	20.76	1.00	19.61	38.45	18.84
				15	35	20.74	1.00	19.59	38.45	18.86
				27	0	20.78	1.00	19.63	38.45	18.82
				27	11	20.66	1.00	19.51	38.45	18.94
	20600 High	844	QPSK	27	23	20.64	1.00	19.49	38.45	18.96
				1	0	22.65	1.00	21.50	38.45	16.95
				1	24	23.11	1.00	21.96	38.45	16.49
				1	49	22.70	1.00	21.55	38.45	16.90
				25	0	21.67	1.00	20.52	38.45	17.93
				25	12	22.00	1.00	20.85	38.45	17.60
				25	25	21.72	1.00	20.57	38.45	17.88
				50	0	21.72	1.00	20.57	38.45	17.88
			16QAM	1	0	21.60	1.00	20.45	38.45	18.00
				1	24	21.92	1.00	20.77	38.45	17.68
				1	49	21.63	1.00	20.48	38.45	17.97
				15	0	20.64	1.00	19.49	38.45	18.96
				15	17	20.92	1.00	19.77	38.45	18.68
				15	35	20.65	1.00	19.50	38.45	18.95
				27	0	20.69	1.00	19.54	38.45	18.91
				27	11	20.94	1.00	19.79	38.45	18.66
				27	23	20.65	1.00	19.50	38.45	18.95

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 7
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 7

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
5	20775 Low	2502.5	QPSK	1	0	22.97	-2.50	20.47	33.01	12.54
				1	12	22.98	-2.50	20.48	33.01	12.53
				1	24	22.79	-2.50	20.29	33.01	12.72
				12	0	21.61	-2.50	19.11	33.01	13.90
				12	6	21.58	-2.50	19.08	33.01	13.93
				12	13	21.53	-2.50	19.03	33.01	13.98
				25	0	21.54	-2.50	19.04	33.01	13.97
			16QAM	1	0	21.37	-2.50	18.87	33.01	14.14
				1	12	21.70	-2.50	19.20	33.01	13.81
				1	24	21.39	-2.50	18.89	33.01	14.12
				12	0	20.53	-2.50	18.03	33.01	14.98
				12	6	20.52	-2.50	18.02	33.01	14.99
				12	13	20.47	-2.50	17.97	33.01	15.04
				25	0	20.50	-2.50	18.00	33.01	15.01
	21100 Mid	2535	QPSK	1	0	22.40	-2.50	19.90	33.01	13.11
				1	12	22.57	-2.50	20.07	33.01	12.94
				1	24	22.49	-2.50	19.99	33.01	13.02
				12	0	21.24	-2.50	18.74	33.01	14.27
				12	6	21.24	-2.50	18.74	33.01	14.27
				12	13	21.19	-2.50	18.69	33.01	14.32
				25	0	21.19	-2.50	18.69	33.01	14.32
			16QAM	1	0	21.16	-2.50	18.66	33.01	14.35
				1	12	21.42	-2.50	18.92	33.01	14.09
				1	24	21.14	-2.50	18.64	33.01	14.37
				12	0	20.31	-2.50	17.81	33.01	15.20
				12	6	20.30	-2.50	17.80	33.01	15.21
				12	13	20.28	-2.50	17.78	33.01	15.23
				25	0	20.23	-2.50	17.73	33.01	15.28
	21425 High	2567.5	QPSK	1	0	22.27	-2.50	19.77	33.01	13.24
				1	12	22.38	-2.50	19.88	33.01	13.13
				1	24	22.20	-2.50	19.70	33.01	13.31
				12	0	21.09	-2.50	18.59	33.01	14.42
				12	6	21.15	-2.50	18.65	33.01	14.36
				12	13	21.18	-2.50	18.68	33.01	14.33
				25	0	21.21	-2.50	18.71	33.01	14.30
			16QAM	1	0	21.00	-2.50	18.50	33.01	14.51
				1	12	21.32	-2.50	18.82	33.01	14.19
				1	24	20.98	-2.50	18.48	33.01	14.53
				12	0	20.24	-2.50	17.74	33.01	15.27
				12	6	20.23	-2.50	17.73	33.01	15.28
				12	13	20.24	-2.50	17.74	33.01	15.27
				25	0	20.20	-2.50	17.70	33.01	15.31

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 7
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 7

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	Power [dBm]	[dBi]	[dBm]	[dBm]	[dB]
10	20800 Low	2505	QPSK	1	0	22.76	-2.50	20.26	33.01	12.75
				1	24	22.82	-2.50	20.32	33.01	12.69
				1	49	22.65	-2.50	20.15	33.01	12.86
				25	0	21.50	-2.50	19.00	33.01	14.01
				25	12	21.50	-2.50	19.00	33.01	14.01
				25	25	21.42	-2.50	18.92	33.01	14.09
				50	0	21.36	-2.50	18.86	33.01	14.15
			16QAM	1	0	21.45	-2.50	18.95	33.01	14.06
				1	24	21.65	-2.50	19.15	33.01	13.86
				1	49	21.39	-2.50	18.89	33.01	14.12
				15	0	20.58	-2.50	18.08	33.01	14.93
				15	17	20.49	-2.50	17.99	33.01	15.02
				15	35	20.41	-2.50	17.91	33.01	15.10
				27	0	20.46	-2.50	17.96	33.01	15.05
				27	11	20.47	-2.50	17.97	33.01	15.04
				27	23	20.45	-2.50	17.95	33.01	15.06
				1	0	22.73	-2.50	20.23	33.01	12.78
				1	24	22.73	-2.50	20.23	33.01	12.78
				1	49	22.42	-2.50	19.92	33.01	13.09
				25	0	21.49	-2.50	18.99	33.01	14.02
				25	12	21.37	-2.50	18.87	33.01	14.14
				25	25	21.34	-2.50	18.84	33.01	14.17
				50	0	21.21	-2.50	18.71	33.01	14.30
	21100 Mid	2535	QPSK	1	0	21.29	-2.50	18.79	33.01	14.22
				1	24	21.37	-2.50	18.87	33.01	14.14
				1	49	21.25	-2.50	18.75	33.01	14.26
				15	0	20.29	-2.50	17.79	33.01	15.22
				15	17	20.29	-2.50	17.79	33.01	15.22
				15	35	20.22	-2.50	17.72	33.01	15.29
				27	0	20.30	-2.50	17.80	33.01	15.21
				27	11	20.31	-2.50	17.81	33.01	15.20
				27	23	20.30	-2.50	17.80	33.01	15.21
			16QAM	1	0	22.50	-2.50	20.00	33.01	13.01
				1	24	22.51	-2.50	20.01	33.01	13.00
				1	49	22.36	-2.50	19.86	33.01	13.15
				25	0	21.31	-2.50	18.81	33.01	14.20
				25	12	21.24	-2.50	18.74	33.01	14.27
				25	25	21.21	-2.50	18.71	33.01	14.30
				50	0	21.23	-2.50	18.73	33.01	14.28
	21400 High	2565	QPSK	1	0	21.30	-2.50	18.80	33.01	14.21
				1	24	21.31	-2.50	18.81	33.01	14.20
				1	49	21.21	-2.50	18.71	33.01	14.30
				15	0	20.38	-2.50	17.88	33.01	15.13
				15	17	20.27	-2.50	17.77	33.01	15.24
				15	35	20.21	-2.50	17.71	33.01	15.30
				27	0	20.40	-2.50	17.90	33.01	15.11
				27	11	20.30	-2.50	17.80	33.01	15.21
				27	23	20.26	-2.50	17.76	33.01	15.25
			16QAM	1	0	21.30	-2.50	18.80	33.01	14.21
				1	24	21.31	-2.50	18.81	33.01	14.20
				1	49	21.21	-2.50	18.71	33.01	14.30
				15	0	20.38	-2.50	17.88	33.01	15.13
				15	17	20.27	-2.50	17.77	33.01	15.24
				15	35	20.21	-2.50	17.71	33.01	15.30
				27	0	20.40	-2.50	17.90	33.01	15.11
				27	11	20.30	-2.50	17.80	33.01	15.21
				27	23	20.26	-2.50	17.76	33.01	15.25

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 7
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 7

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
15	20825 Low	2507.5	QPSK	1	0	22.94	-2.50	20.44	33.01	12.57
				1	37	22.94	-2.50	20.44	33.01	12.57
				1	74	22.86	-2.50	20.36	33.01	12.65
				36	0	21.53	-2.50	19.03	33.01	13.98
				36	19	21.53	-2.50	19.03	33.01	13.98
				36	39	21.43	-2.50	18.93	33.01	14.08
				75	0	21.33	-2.50	18.83	33.01	14.18
			16QAM	1	0	21.45	-2.50	18.95	33.01	14.06
				1	37	21.59	-2.50	19.09	33.01	13.92
				1	74	21.39	-2.50	18.89	33.01	14.12
				15	0	21.41	-2.50	18.91	33.01	14.10
				15	30	21.35	-2.50	18.85	33.01	14.16
				15	60	21.39	-2.50	18.89	33.01	14.12
				27	0	20.43	-2.50	17.93	33.01	15.08
				27	24	20.44	-2.50	17.94	33.01	15.07
				27	48	20.36	-2.50	17.86	33.01	15.15
	21100 Mid	2535	QPSK	1	0	22.56	-2.50	20.06	33.01	12.95
				1	37	22.61	-2.50	20.11	33.01	12.90
				1	74	22.40	-2.50	19.90	33.01	13.11
				36	0	21.31	-2.50	18.81	33.01	14.20
				36	19	21.27	-2.50	18.77	33.01	14.24
				36	39	21.24	-2.50	18.74	33.01	14.27
				75	0	21.19	-2.50	18.69	33.01	14.32
			16QAM	1	0	21.28	-2.50	18.78	33.01	14.23
				1	37	21.44	-2.50	18.94	33.01	14.07
				1	74	21.18	-2.50	18.68	33.01	14.33
				15	0	21.28	-2.50	18.78	33.01	14.23
				15	30	21.24	-2.50	18.74	33.01	14.27
				15	60	21.18	-2.50	18.68	33.01	14.33
				27	0	20.26	-2.50	17.76	33.01	15.25
				27	24	20.23	-2.50	17.73	33.01	15.28
				27	48	20.20	-2.50	17.70	33.01	15.31
	21375 High	2562.5	QPSK	1	0	22.53	-2.50	20.03	33.01	12.98
				1	37	22.70	-2.50	20.20	33.01	12.81
				1	74	22.33	-2.50	19.83	33.01	13.18
				36	0	21.26	-2.50	18.76	33.01	14.25
				36	19	21.36	-2.50	18.86	33.01	14.15
				36	39	21.22	-2.50	18.72	33.01	14.29
				75	0	21.25	-2.50	18.75	33.01	14.26
			16QAM	1	0	21.29	-2.50	18.79	33.01	14.22
				1	37	21.62	-2.50	19.12	33.01	13.89
				1	74	21.42	-2.50	18.92	33.01	14.09
				15	0	21.26	-2.50	18.76	33.01	14.25
				15	30	21.29	-2.50	18.79	33.01	14.22
				15	60	21.17	-2.50	18.67	33.01	14.34
				27	0	20.21	-2.50	17.71	33.01	15.30
				27	24	20.34	-2.50	17.84	33.01	15.17
				27	48	20.19	-2.50	17.69	33.01	15.32

EIRP = Conducted Power* + Ant.Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 7
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 7

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant. Gain	EIRP	EIRP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
20	20850 Low	2510	QPSK	1	0	22.69	-2.50	20.19	33.01	12.82
				1	49	22.96	-2.50	20.46	33.01	12.55
				1	99	22.62	-2.50	20.12	33.01	12.89
				50	0	21.41	-2.50	18.91	33.01	14.10
				50	24	21.43	-2.50	18.93	33.01	14.08
				50	50	21.43	-2.50	18.93	33.01	14.08
				100	0	21.43	-2.50	18.93	33.01	14.08
			16QAM	1	0	21.44	-2.50	18.94	33.01	14.07
				1	49	21.54	-2.50	19.04	33.01	13.97
				1	99	21.35	-2.50	18.85	33.01	14.16
				15	0	21.42	-2.50	18.92	33.01	14.09
				15	42	21.44	-2.50	18.94	33.01	14.07
				15	85	21.34	-2.50	18.84	33.01	14.17
				27	0	20.46	-2.50	17.96	33.01	15.05
				27	36	20.43	-2.50	17.93	33.01	15.08
				27	73	20.35	-2.50	17.85	33.01	15.16
	21100 Mid	2535	QPSK	1	0	22.61	-2.50	20.11	33.01	12.90
				1	49	22.74	-2.50	20.24	33.01	12.77
				1	99	22.47	-2.50	19.97	33.01	13.04
				50	0	21.24	-2.50	18.74	33.01	14.27
				50	24	21.22	-2.50	18.72	33.01	14.29
				50	50	21.18	-2.50	18.68	33.01	14.33
				100	0	21.14	-2.50	18.64	33.01	14.37
			16QAM	1	0	21.28	-2.50	18.78	33.01	14.23
				1	49	21.30	-2.50	18.80	33.01	14.21
				1	99	21.08	-2.50	18.58	33.01	14.43
				15	0	21.28	-2.50	18.78	33.01	14.23
				15	42	21.16	-2.50	18.66	33.01	14.35
				15	85	21.08	-2.50	18.58	33.01	14.43
				27	0	20.17	-2.50	17.67	33.01	15.34
				27	36	20.25	-2.50	17.75	33.01	15.26
				27	73	20.12	-2.50	17.62	33.01	15.39
	21350 High	2560	QPSK	1	0	22.34	-2.50	19.84	33.01	13.17
				1	49	22.71	-2.50	20.21	33.01	12.80
				1	99	22.34	-2.50	19.84	33.01	13.17
				50	0	21.12	-2.50	18.62	33.01	14.39
				50	24	21.29	-2.50	18.79	33.01	14.22
				50	50	21.22	-2.50	18.72	33.01	14.29
				100	0	21.22	-2.50	18.72	33.01	14.29
			16QAM	1	0	21.21	-2.50	18.71	33.01	14.30
				1	49	21.45	-2.50	18.95	33.01	14.06
				1	99	21.23	-2.50	18.73	33.01	14.28
				15	0	21.17	-2.50	18.67	33.01	14.34
				15	42	21.30	-2.50	18.80	33.01	14.21
				15	85	21.15	-2.50	18.65	33.01	14.36
				27	0	20.18	-2.50	17.68	33.01	15.33
				27	36	20.30	-2.50	17.80	33.01	15.21
				27	73	20.13	-2.50	17.63	33.01	15.38

EIRP = Conducted Power* + Ant. Gain

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 12				
Date	Test site	Temperature	Humidity	Engineer	
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi	

Band 12										
BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
1.4	23017 Low	699.7	QPSK	1	0	22.42	-1.00	19.27	44.77	25.50
				1	2	22.53	-1.00	19.38	44.77	25.39
				1	5	22.46	-1.00	19.31	44.77	25.46
				3	0	22.23	-1.00	19.08	44.77	25.69
				3	1	22.43	-1.00	19.28	44.77	25.49
				3	3	22.31	-1.00	19.16	44.77	25.61
			16QAM	6	0	21.28	-1.00	18.13	44.77	26.64
				1	0	21.19	-1.00	18.04	44.77	26.73
				1	2	21.34	-1.00	18.19	44.77	26.58
				1	5	21.23	-1.00	18.08	44.77	26.69
				3	0	21.26	-1.00	18.11	44.77	26.66
				3	1	21.33	-1.00	18.18	44.77	26.59
	23095 Mid	707.5	QPSK	3	3	21.30	-1.00	18.15	44.77	26.62
				6	0	20.23	-1.00	17.08	44.77	27.69
				1	0	22.44	-1.00	19.29	44.77	25.48
				1	2	22.43	-1.00	19.28	44.77	25.49
				1	5	22.41	-1.00	19.26	44.77	25.51
				3	0	22.34	-1.00	19.19	44.77	25.58
			16QAM	3	1	22.37	-1.00	19.22	44.77	25.55
				3	3	22.37	-1.00	19.22	44.77	25.55
				6	0	21.33	-1.00	18.18	44.77	26.59
				1	0	21.34	-1.00	18.19	44.77	26.58
				1	2	21.39	-1.00	18.24	44.77	26.53
				1	5	21.25	-1.00	18.10	44.77	26.67
	23173 High	715.3	QPSK	3	0	21.34	-1.00	18.19	44.77	26.58
				3	1	21.40	-1.00	18.25	44.77	26.52
				3	3	21.36	-1.00	18.21	44.77	26.56
				6	0	20.33	-1.00	17.18	44.77	27.59
			16QAM	1	0	22.37	-1.00	19.22	44.77	25.55
				1	2	22.65	-1.00	19.50	44.77	25.27
				1	5	22.42	-1.00	19.27	44.77	25.50
				3	0	22.22	-1.00	19.07	44.77	25.70
				3	1	22.39	-1.00	19.24	44.77	25.53
				3	3	22.36	-1.00	19.21	44.77	25.56
			16QAM	6	0	21.32	-1.00	18.17	44.77	26.60
				1	0	21.26	-1.00	18.11	44.77	26.66
				1	2	21.35	-1.00	18.20	44.77	26.57
				1	5	21.25	-1.00	18.10	44.77	26.67
				3	0	21.32	-1.00	18.17	44.77	26.60
				3	1	21.34	-1.00	18.19	44.77	26.58
				3	3	21.33	-1.00	18.18	44.77	26.59
				6	0	20.30	-1.00	17.15	44.77	27.62

ERP = Conducted Power* + Ant.Gain - 2.15
* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 12
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 12

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
3	23025 Low	700.5	QPSK	1	0	22.24	-1.00	19.09	44.77	25.68
				1	7	22.61	-1.00	19.46	44.77	25.31
				1	14	22.22	-1.00	19.07	44.77	25.70
				8	0	21.31	-1.00	18.16	44.77	26.61
				8	4	21.34	-1.00	18.19	44.77	26.58
				8	7	21.26	-1.00	18.11	44.77	26.66
				15	0	21.19	-1.00	18.04	44.77	26.73
			16QAM	1	0	21.21	-1.00	18.06	44.77	26.71
				1	7	21.42	-1.00	18.27	44.77	26.50
				1	14	21.11	-1.00	17.96	44.77	26.81
				8	0	20.31	-1.00	17.16	44.77	27.61
				8	4	20.30	-1.00	17.15	44.77	27.62
				8	7	20.20	-1.00	17.05	44.77	27.72
				15	0	20.18	-1.00	17.03	44.77	27.74
	23095 Mid	707.5	QPSK	1	0	22.47	-1.00	19.32	44.77	25.45
				1	7	22.55	-1.00	19.40	44.77	25.37
				1	14	22.41	-1.00	19.26	44.77	25.51
				8	0	21.35	-1.00	18.20	44.77	26.57
				8	4	21.40	-1.00	18.25	44.77	26.52
				8	7	21.36	-1.00	18.21	44.77	26.56
				15	0	21.39	-1.00	18.24	44.77	26.53
			16QAM	1	0	21.29	-1.00	18.14	44.77	26.63
				1	7	21.50	-1.00	18.35	44.77	26.42
				1	14	21.21	-1.00	18.06	44.77	26.71
				8	0	20.35	-1.00	17.20	44.77	27.57
				8	4	20.36	-1.00	17.21	44.77	27.56
				8	7	20.33	-1.00	17.18	44.77	27.59
				15	0	20.32	-1.00	17.17	44.77	27.60
	23165 High	714.5	QPSK	1	0	22.43	-1.00	19.28	44.77	25.49
				1	7	22.52	-1.00	19.37	44.77	25.40
				1	14	22.38	-1.00	19.23	44.77	25.54
				8	0	21.38	-1.00	18.23	44.77	26.54
				8	4	21.35	-1.00	18.20	44.77	26.57
				8	7	21.37	-1.00	18.22	44.77	26.55
				15	0	21.29	-1.00	18.14	44.77	26.63
			16QAM	1	0	21.26	-1.00	18.11	44.77	26.66
				1	7	21.47	-1.00	18.32	44.77	26.45
				1	14	21.25	-1.00	18.10	44.77	26.67
				8	0	20.41	-1.00	17.26	44.77	27.51
				8	4	20.34	-1.00	17.19	44.77	27.58
				8	7	20.30	-1.00	17.15	44.77	27.62
				15	0	20.32	-1.00	17.17	44.77	27.60

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 12
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 12

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
5	23035 Low	701.5	QPSK	1	0	22.50	-1.00	19.35	44.77	25.42
				1	12	22.64	-1.00	19.49	44.77	25.28
				1	24	22.42	-1.00	19.27	44.77	25.50
				12	0	21.32	-1.00	18.17	44.77	26.60
				12	6	21.22	-1.00	18.07	44.77	26.70
				12	13	21.14	-1.00	17.99	44.77	26.78
			16QAM	25	0	21.20	-1.00	18.05	44.77	26.72
				1	0	21.11	-1.00	17.96	44.77	26.81
				1	12	21.44	-1.00	18.29	44.77	26.48
				1	24	21.08	-1.00	17.93	44.77	26.84
				12	0	20.29	-1.00	17.14	44.77	27.63
				12	6	20.23	-1.00	17.08	44.77	27.69
	23095 Mid	707.5	QPSK	12	13	20.14	-1.00	16.99	44.77	27.78
				25	0	20.18	-1.00	17.03	44.77	27.74
				1	0	22.58	-1.00	19.43	44.77	25.34
				1	12	22.73	-1.00	19.58	44.77	25.19
				1	24	22.48	-1.00	19.33	44.77	25.44
				12	0	21.36	-1.00	18.21	44.77	26.56
			16QAM	12	6	21.36	-1.00	18.21	44.77	26.56
				12	13	21.33	-1.00	18.18	44.77	26.59
				25	0	21.43	-1.00	18.28	44.77	26.49
				1	0	21.26	-1.00	18.11	44.77	26.66
				1	12	21.51	-1.00	18.36	44.77	26.41
				1	24	21.14	-1.00	17.99	44.77	26.78
	23155 High	713.5	QPSK	12	0	20.36	-1.00	17.21	44.77	27.56
				12	6	20.38	-1.00	17.23	44.77	27.54
				12	13	20.27	-1.00	17.12	44.77	27.65
				25	0	20.38	-1.00	17.23	44.77	27.54
			16QAM	1	0	22.56	-1.00	19.41	44.77	25.36
				1	12	22.56	-1.00	19.41	44.77	25.36
				1	24	22.47	-1.00	19.32	44.77	25.45
				12	0	21.35	-1.00	18.20	44.77	26.57
				12	6	21.33	-1.00	18.18	44.77	26.59
				12	13	21.25	-1.00	18.10	44.77	26.67
			QPSK	25	0	21.23	-1.00	18.08	44.77	26.69
				1	0	21.28	-1.00	18.13	44.77	26.64
				1	12	21.43	-1.00	18.28	44.77	26.49
				1	24	21.12	-1.00	17.97	44.77	26.80
				12	0	20.36	-1.00	17.21	44.77	27.56
				12	6	20.54	-1.00	17.39	44.77	27.38
				12	13	20.45	-1.00	17.30	44.77	27.47
				25	0	20.32	-1.00	17.17	44.77	27.60

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

RF Output Power

Mode	LTE Band 12
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Date	Test site	Temperature	Humidity	Engineer
May 21, 2026	SR7	22 deg. C	48 % RH	Takafumi Noguchi

Band 12

BW	UL	Freq.	Modulation	UL RB	UL RB	Conducted Power	Ant.Gain	ERP	ERP Limit	Margin
[MHz]	Ch #	[MHz]		Allocation	Start	[dBm]	[dBi]	[dBm]	[dBm]	[dB]
10	23060 Low	704	QPSK	1	0	22.49	-1.00	19.34	44.77	25.43
				1	24	22.68	-1.00	19.53	44.77	25.24
				1	49	22.46	-1.00	19.31	44.77	25.46
				25	0	21.24	-1.00	18.09	44.77	26.68
				25	12	21.34	-1.00	18.19	44.77	26.58
				25	25	21.42	-1.00	18.27	44.77	26.50
				50	0	21.32	-1.00	18.17	44.77	26.60
				1	0	21.33	-1.00	18.18	44.77	26.59
			16QAM	1	24	21.34	-1.00	18.19	44.77	26.58
				1	49	21.31	-1.00	18.16	44.77	26.61
				15	0	20.14	-1.00	16.99	44.77	27.78
				15	17	20.21	-1.00	17.06	44.77	27.71
				15	35	20.31	-1.00	17.16	44.77	27.61
				27	0	20.13	-1.00	16.98	44.77	27.79
				27	11	20.21	-1.00	17.06	44.77	27.71
				27	23	20.28	-1.00	17.13	44.77	27.64
	23095 Mid	707.5	QPSK	1	0	22.37	-1.00	19.22	44.77	25.55
				1	24	22.74	-1.00	19.59	44.77	25.18
				1	49	22.47	-1.00	19.32	44.77	25.45
				25	0	21.36	-1.00	18.21	44.77	26.56
				25	12	21.37	-1.00	18.22	44.77	26.55
				25	25	21.26	-1.00	18.11	44.77	26.66
				50	0	21.35	-1.00	18.20	44.77	26.57
				1	0	21.10	-1.00	17.95	44.77	26.82
			16QAM	1	24	21.44	-1.00	18.29	44.77	26.48
				1	49	21.30	-1.00	18.15	44.77	26.62
				15	0	20.22	-1.00	17.07	44.77	27.70
				15	17	20.29	-1.00	17.14	44.77	27.63
				15	35	20.22	-1.00	17.07	44.77	27.70
				27	0	20.29	-1.00	17.14	44.77	27.63
				27	11	20.31	-1.00	17.16	44.77	27.61
				27	23	20.20	-1.00	17.05	44.77	27.72
	23130 High	711	QPSK	1	0	22.62	-1.00	19.47	44.77	25.30
				1	24	22.70	-1.00	19.55	44.77	25.22
				1	49	22.54	-1.00	19.39	44.77	25.38
				25	0	21.31	-1.00	18.16	44.77	26.61
				25	12	21.33	-1.00	18.18	44.77	26.59
				25	25	21.31	-1.00	18.16	44.77	26.61
				50	0	21.24	-1.00	18.09	44.77	26.68
				1	0	21.24	-1.00	18.09	44.77	26.68
			16QAM	1	24	21.44	-1.00	18.29	44.77	26.48
				1	49	21.16	-1.00	18.01	44.77	26.76
				15	0	20.31	-1.00	17.16	44.77	27.61
				15	17	20.37	-1.00	17.22	44.77	27.55
				15	35	20.26	-1.00	17.11	44.77	27.66
				27	0	20.26	-1.00	17.11	44.77	27.66
				27	11	20.26	-1.00	17.11	44.77	27.66
				27	23	20.31	-1.00	17.16	44.77	27.61

ERP = Conducted Power* + Ant.Gain - 2.15

* includes the losses such as cable or attenuator or combiners etc.

Peak to Average power Ratio

Mode	GSM			
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Date	Test site	Temperature	Humidity	Engineer
June 3, 2026	SR6	25 deg. C	50 % RH	Takafumi Noguchi

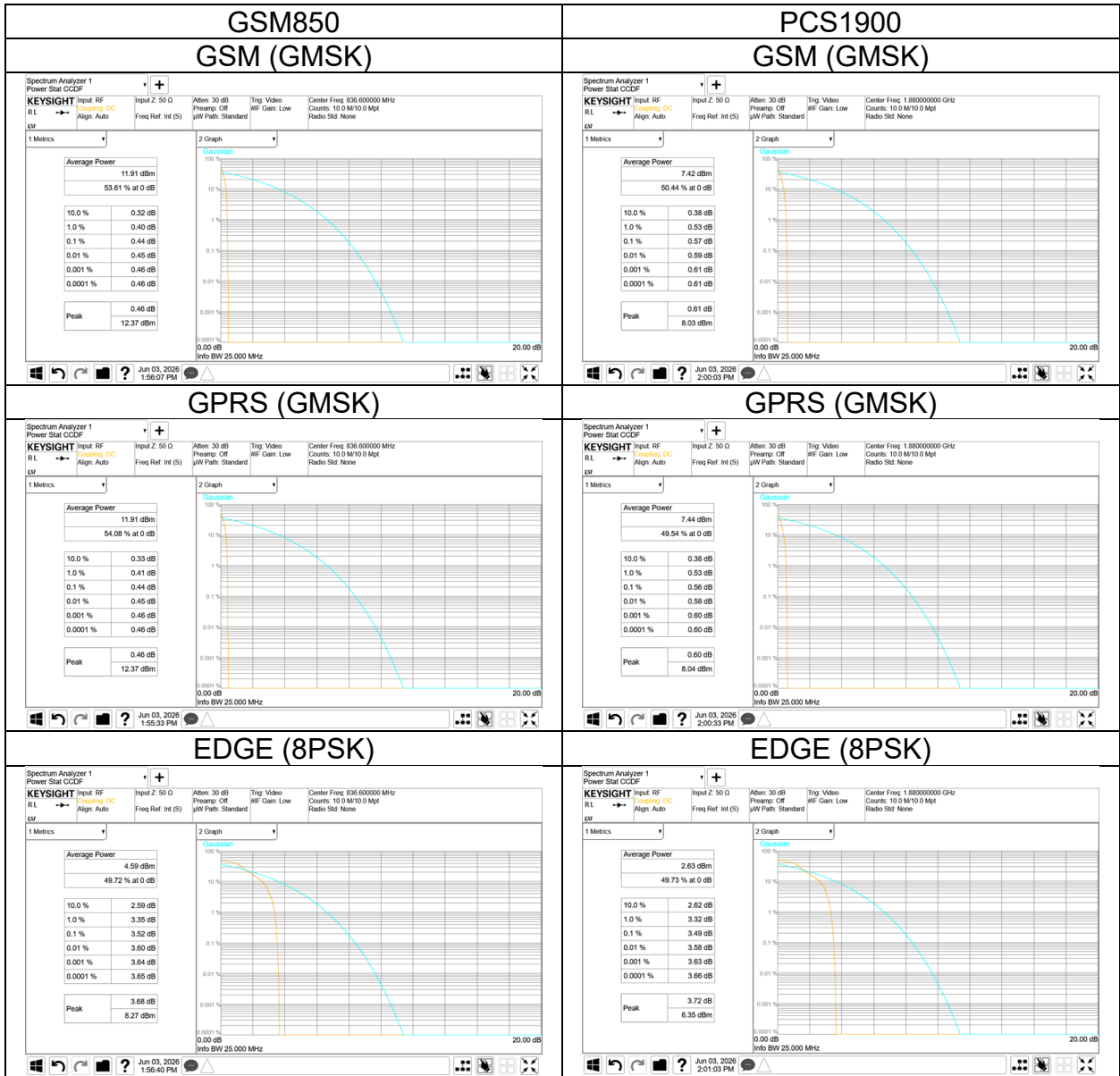
GSM850

UL	Freq.	Mode		Peak to Average Power Ratio	Limit
Ch #	[MHz]			[dB]	[dB]
190 Mid	836.6	GSM (GMSK)	1UL	0.44	13
		GPRS (GMSK)	1UL	0.44	13
		EDGE (8PSK)	1UL	3.52	13

PCS1900

UL	Freq.	Mode		Peak to Average Power Ratio	Limit
Ch #	[MHz]			[dB]	[dB]
661 Mid	1880.0	GSM (GMSK)	1UL	0.57	13
		GPRS (GMSK)	1UL	0.56	13
		EDGE (8PSK)	1UL	3.49	13

Peak to Average power Ratio



Peak to Average power Ratio

Mode	WCDMA
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Date	Test site	Temperature	Humidity	Engineer
June 3, 2026	SR6	25 deg. C	50 % RH	Takafumi Noguchi

Band II

UL Ch #	Freq. [MHz]	Mode		Peak to Average Power Ratio [dB]	Limit [dB]
9400 Mid	1880.0	Rel 99	RMC, 12.2 kbps	3.20	13.00
		HSDPA	Subtest 4	3.82	13.00
		DC-HSDPA	Subtest 4	3.82	13.00
		HSUPA	Subtest 3	5.51	13.00
		HSPA+	Subtest 1	3.34	13.00

*1) The subtest was conducted under the worst-case condition as a representative, based on preliminary testing.

Band IV

UL Ch #	Freq. [MHz]	Mode		Peak to Average Power Ratio [dB]	Limit [dB]
1412 Mid	1732.4	Rel 99	RMC, 12.2 kbps	3.02	13.00
		HSDPA	Subtest 4	3.73	13.00
		DC-HSDPA	Subtest 4	3.74	13.00
		HSUPA	Subtest 3	5.33	13.00
		HSPA+	Subtest 1	3.29	13.00

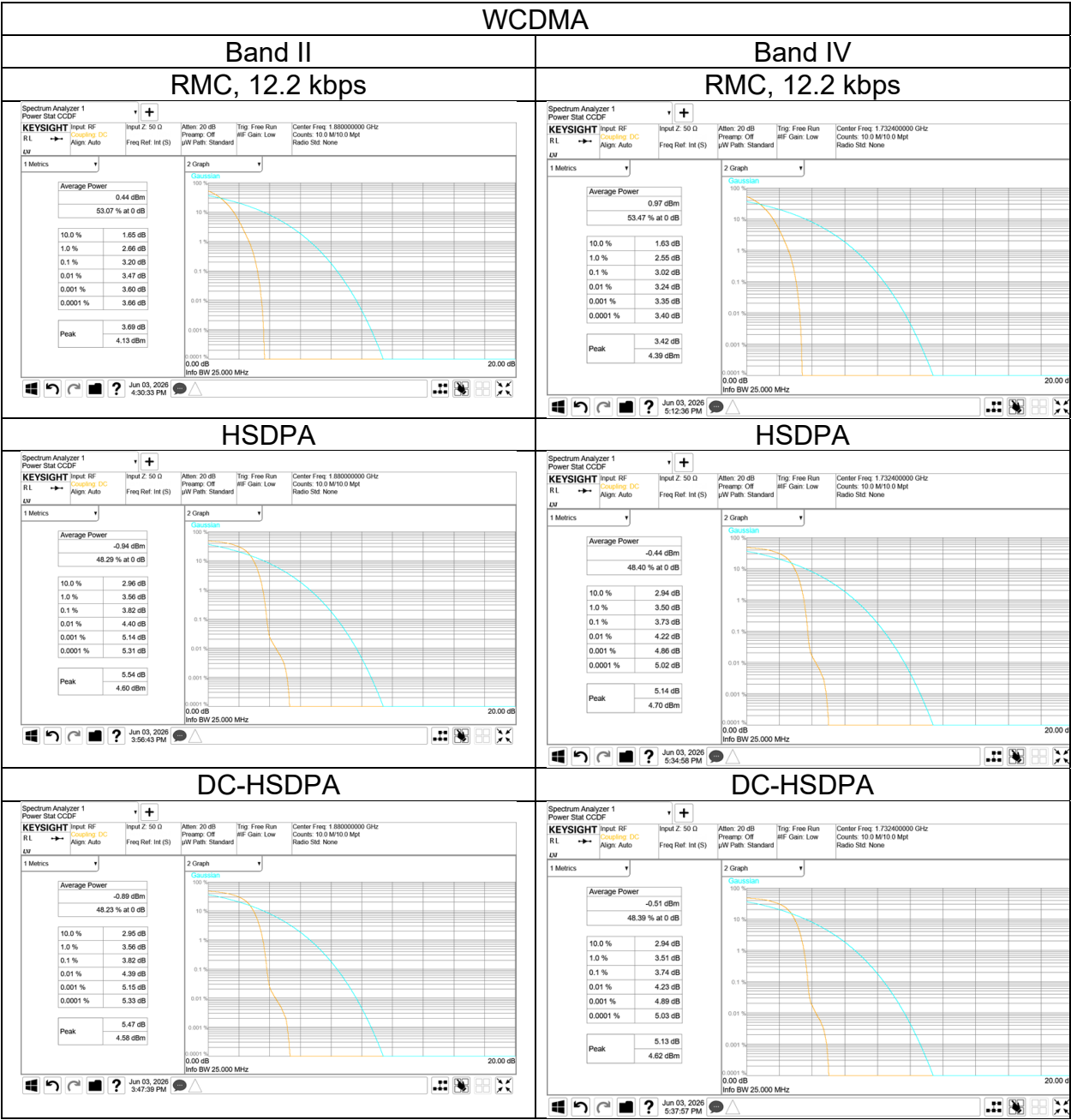
*1) The subtest was conducted under the worst-case condition as a representative, based on preliminary testing.

Band V

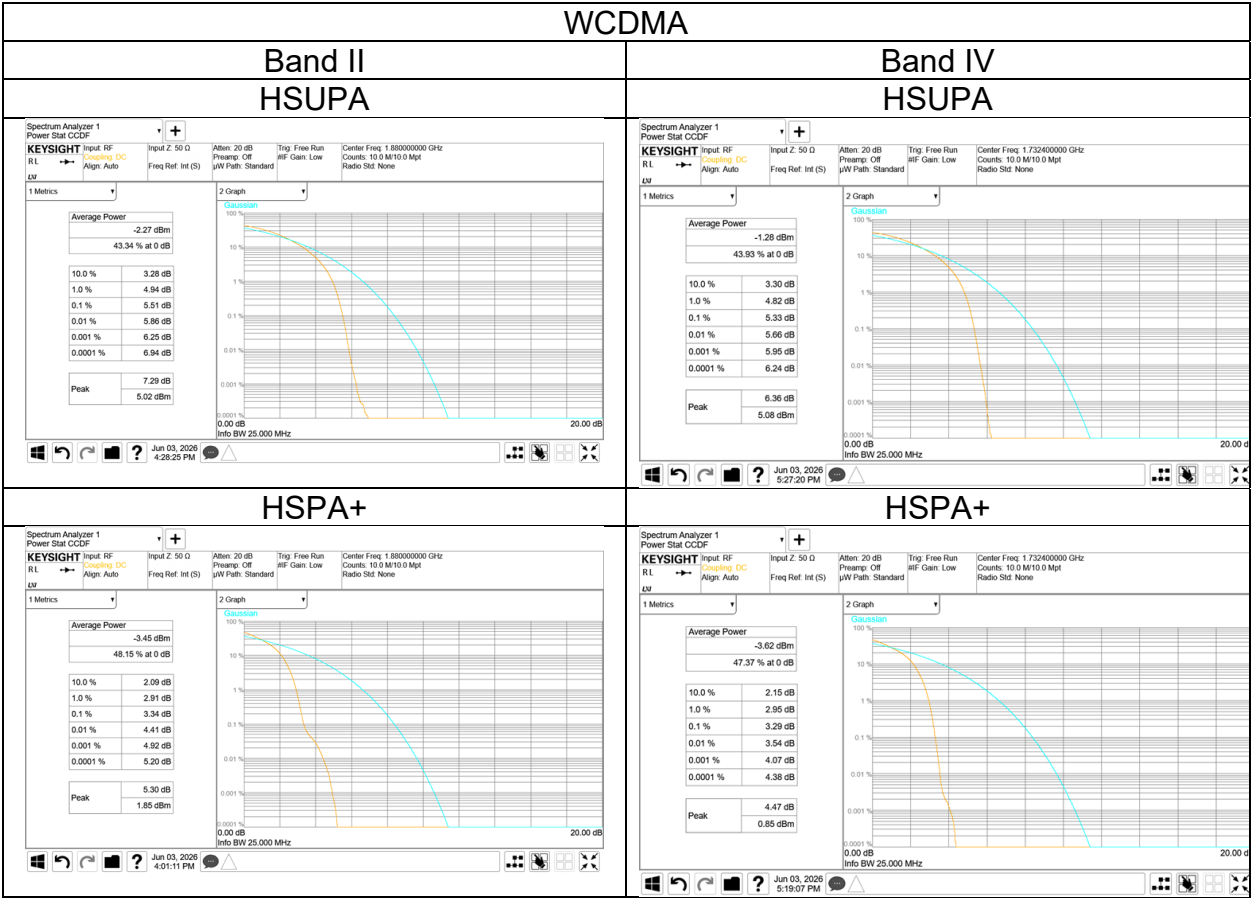
UL Ch #	Freq. [MHz]	Mode		Peak to Average Power Ratio [dB]	Limit [dB]
4182 Mid	836.4	Rel 99	RMC, 12.2 kbps	3.20	13.00
		HSDPA	Subtest 4	3.69	13.00
		DC-HSDPA	Subtest 4	3.71	13.00
		HSUPA	Subtest 3	5.36	13.00
		HSPA+	Subtest 1	3.19	13.00

*1) The subtest was conducted under the worst-case condition as a representative, based on preliminary testing.

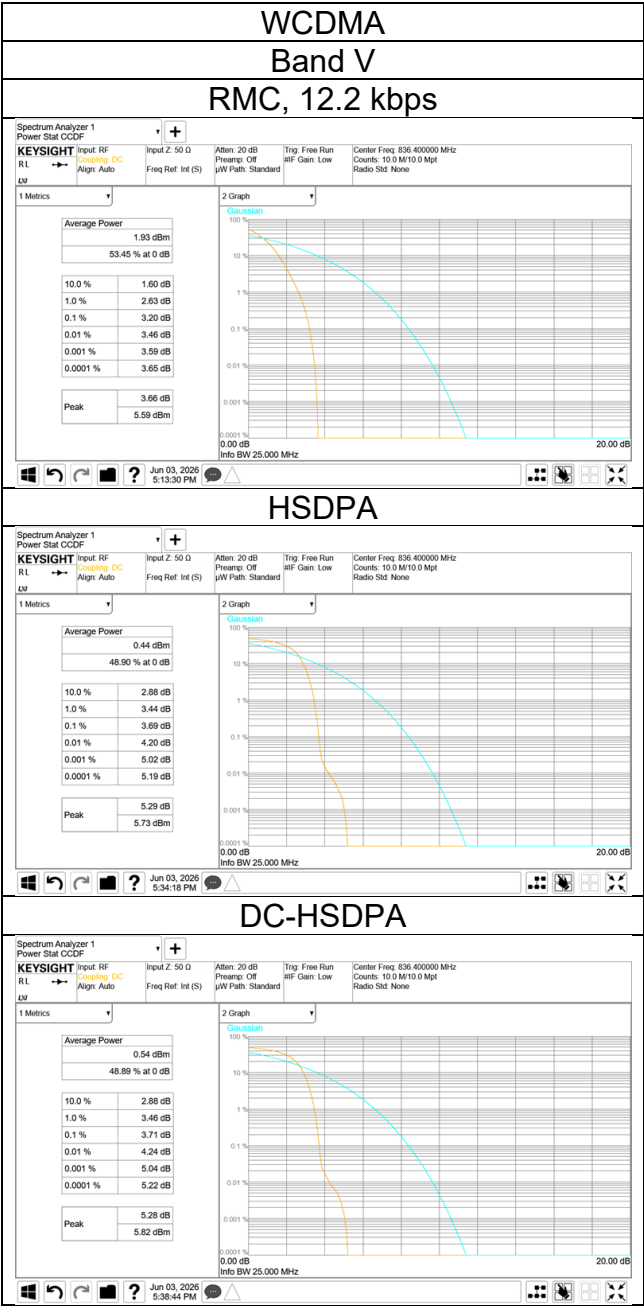
Peak to Average power Ratio



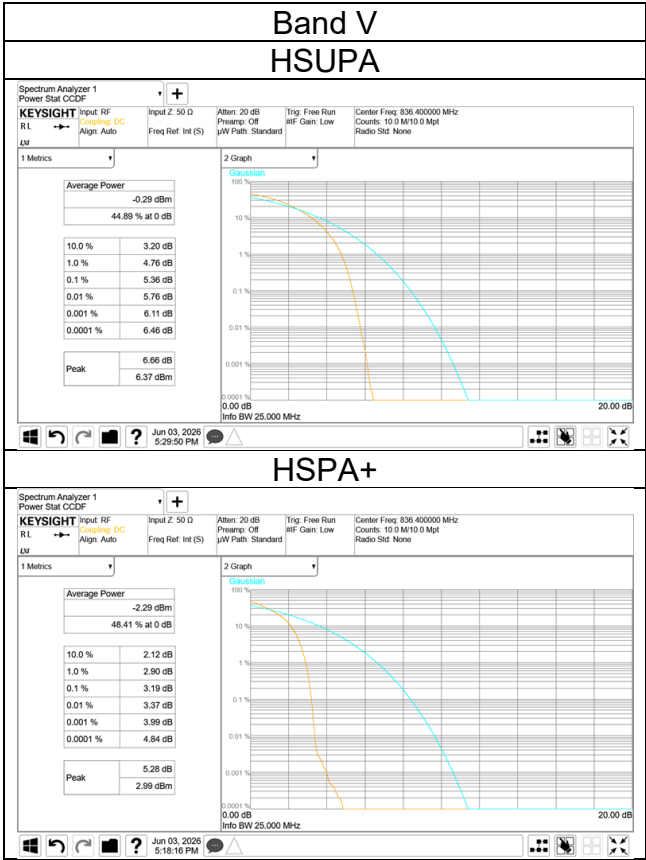
Peak to Average power Ratio



Peak to Average power Ratio



Peak to Average power Ratio



Peak to Average power Ratio

Mode	LTE
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Date	Test site	Temperature	Humidity	Engineer
June 3, 2026	SR6	25 deg. C	50 % RH	Takafumi Noguchi
June 4, 2026	SR6	25 deg. C	50 % RH	Takafumi Noguchi

Band 2

BW	UL	Freq.	Modulation	UL RB	UL RB	Peak to Average	Limit
[MHz]	Ch #	[MHz]		Allocation	Start	Power Ratio [dB]	[dB]
1.4	18900	1880	QPSK	6	0	4.46	13.00
	Mid		16QAM	6	0	5.16	13.00
3	18900	1880	QPSK	15	0	4.77	13.00
	Mid		16QAM	15	0	5.44	13.00
5	18900	1880	QPSK	25	0	4.66	13.00
	Mid		16QAM	25	0	5.36	13.00
10	18900	1880	QPSK	50	0	4.72	13.00
	Mid		16QAM	27	11	4.51	13.00
15	18900	1880	QPSK	75	0	4.41	13.00
	Mid		16QAM	27	24	4.18	13.00
20	18900	1880	QPSK	100	0	4.51	13.00
	Mid		16QAM	27	36	4.14	13.00

Band 4

BW	UL	Freq.	Modulation	UL RB	UL RB	Peak to Average	Limit
[MHz]	Ch #	[MHz]		Allocation	Start	Power Ratio [dB]	[dB]
1.4	20175	1732.5	QPSK	6	0	4.38	13.00
	Mid		16QAM	6	0	5.12	13.00
3	20175	1732.5	QPSK	15	0	4.67	13.00
	Mid		16QAM	15	0	5.37	13.00
5	20175	1732.5	QPSK	25	0	4.57	13.00
	Mid		16QAM	25	0	5.29	13.00
10	20175	1732.5	QPSK	50	0	4.64	13.00
	Mid		16QAM	27	11	4.45	13.00
15	20175	1732.5	QPSK	75	0	4.37	13.00
	Mid		16QAM	27	24	4.17	13.00
20	20175	1732.5	QPSK	100	0	4.46	13.00
	Mid		16QAM	27	36	4.12	13.00

Band 5

BW	UL	Freq.	Modulation	UL RB	UL RB	Peak to Average	Limit
[MHz]	Ch #	[MHz]		Allocation	Start	Power Ratio [dB]	[dB]
1.4	20525	836.5	QPSK	6	0	5.74	13.00
	Mid		16QAM	6	0	6.47	13.00
3	20525	836.5	QPSK	15	0	5.85	13.00
	Mid		16QAM	15	0	6.52	13.00
5	20525	836.5	QPSK	25	0	5.72	13.00
	Mid		16QAM	25	0	6.44	13.00
10	20525	836.5	QPSK	50	0	5.82	13.00
	Mid		16QAM	27	11	6.10	13.00

Peak to Average power Ratio

Mode	LTE
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Date	Test site	Temperature	Humidity	Engineer
June 3, 2026	SR6	25 deg. C	50 % RH	Takafumi Noguchi
June 4, 2026	SR6	25 deg. C	50 % RH	Takafumi Noguchi

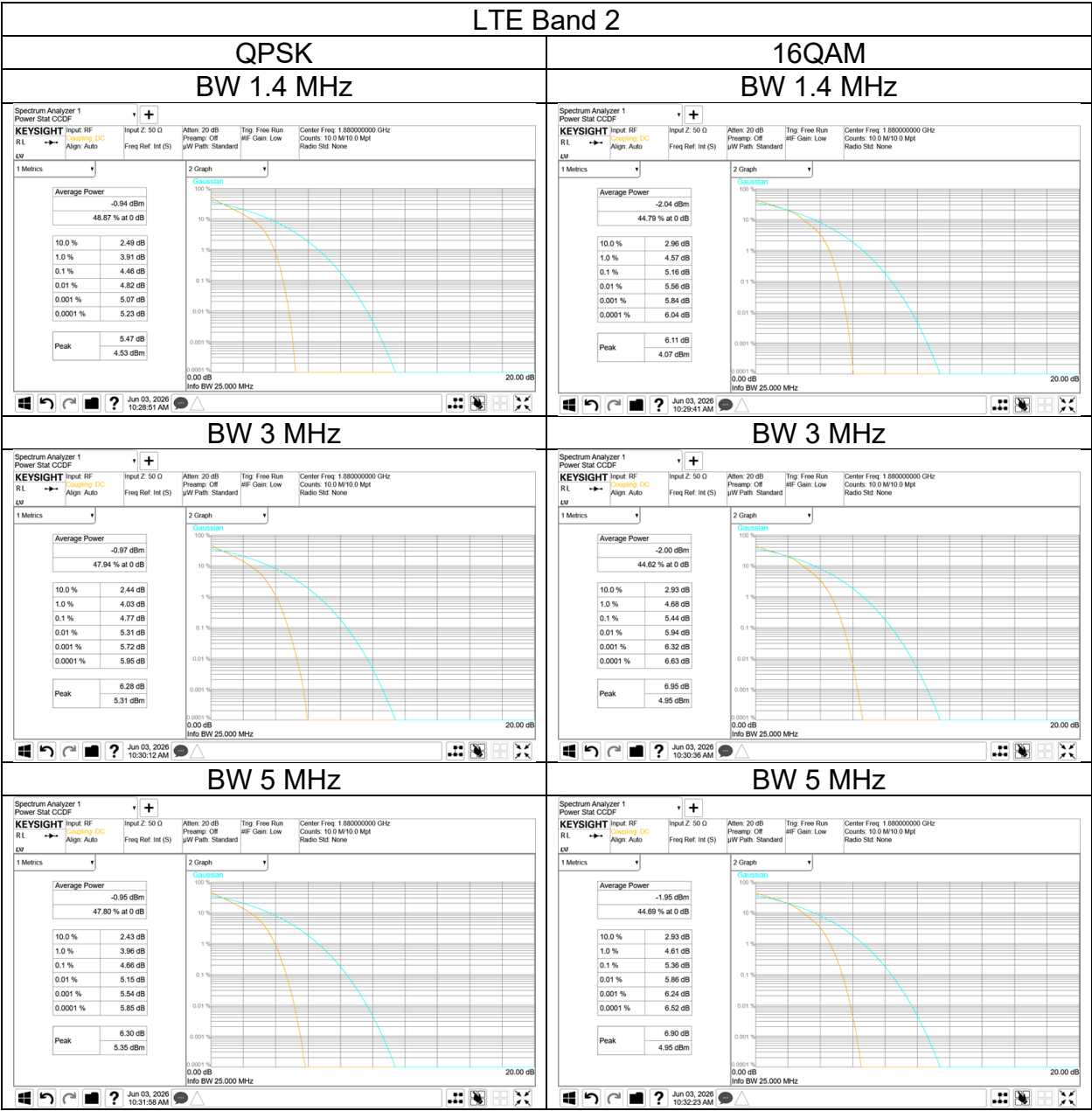
Band 7

BW [MHz]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Peak to Average Power Ratio [dB]	Limit [dB]
5	21100	2535	QPSK	25	0	5.95	13.00
	Mid		16QAM	25	0	6.76	13.00
10	21100	2535	QPSK	50	0	6.05	13.00
	Mid		16QAM	27	11	6.50	13.00
15	21100	2535	QPSK	75	0	5.90	13.00
	Mid		16QAM	27	24	6.36	13.00
20	21100	2535	QPSK	100	0	5.76	13.00
	Mid		16QAM	27	36	6.33	13.00

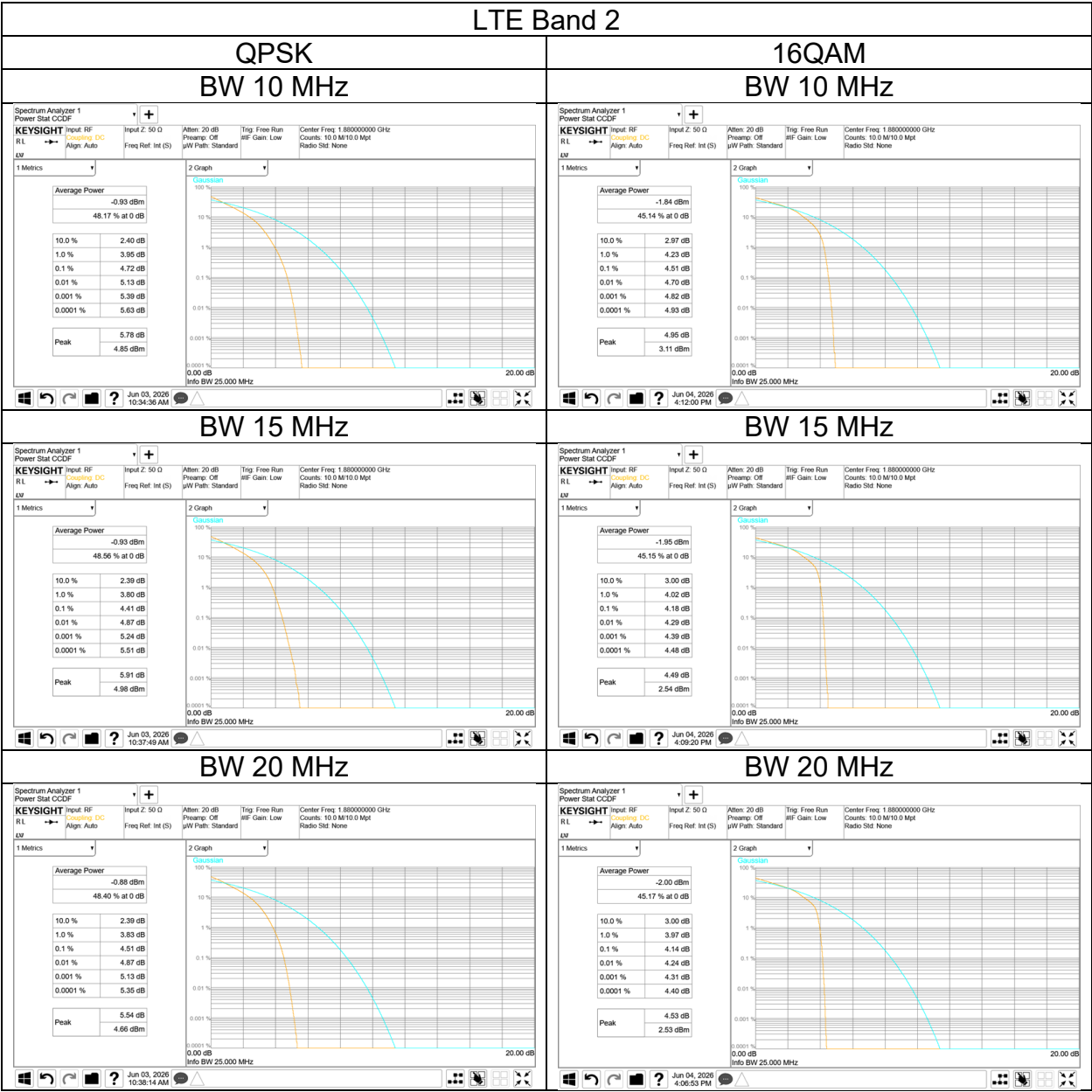
Band 12

BW [MHz]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Peak to Average Power Ratio [dB]	Limit [dB]
1.4	23095	707.5	QPSK	6	0	5.38	13.00
	Mid		16QAM	6	0	6.27	13.00
3	23095	707.5	QPSK	15	0	5.45	13.00
	Mid		16QAM	15	0	6.25	13.00
5	23095	707.5	QPSK	25	0	5.33	13.00
	Mid		16QAM	25	0	6.18	13.00
10	23095	707.5	QPSK	50	0	5.33	13.00
	Mid		16QAM	27	11	5.94	13.00

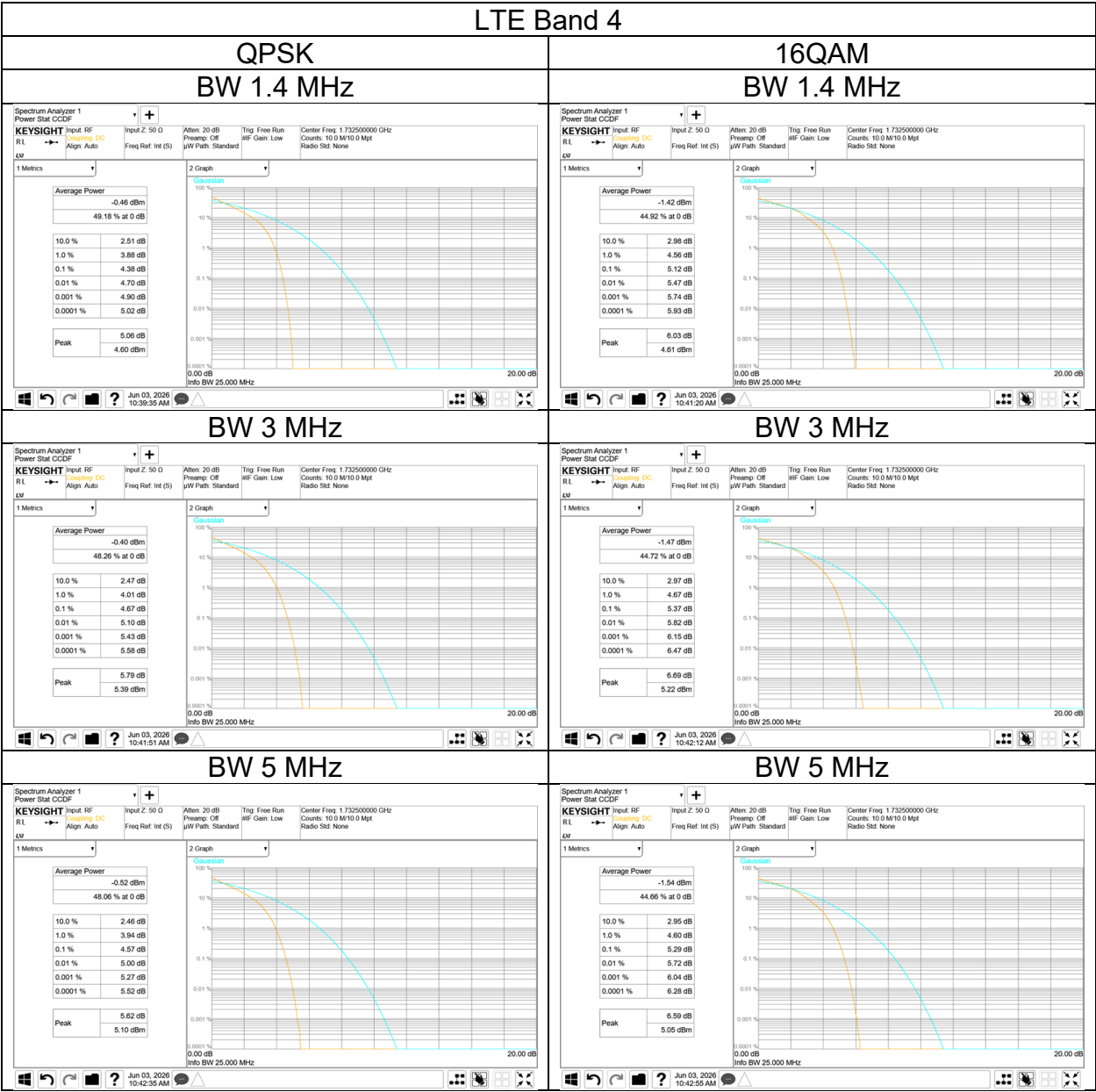
Peak to Average power Ratio



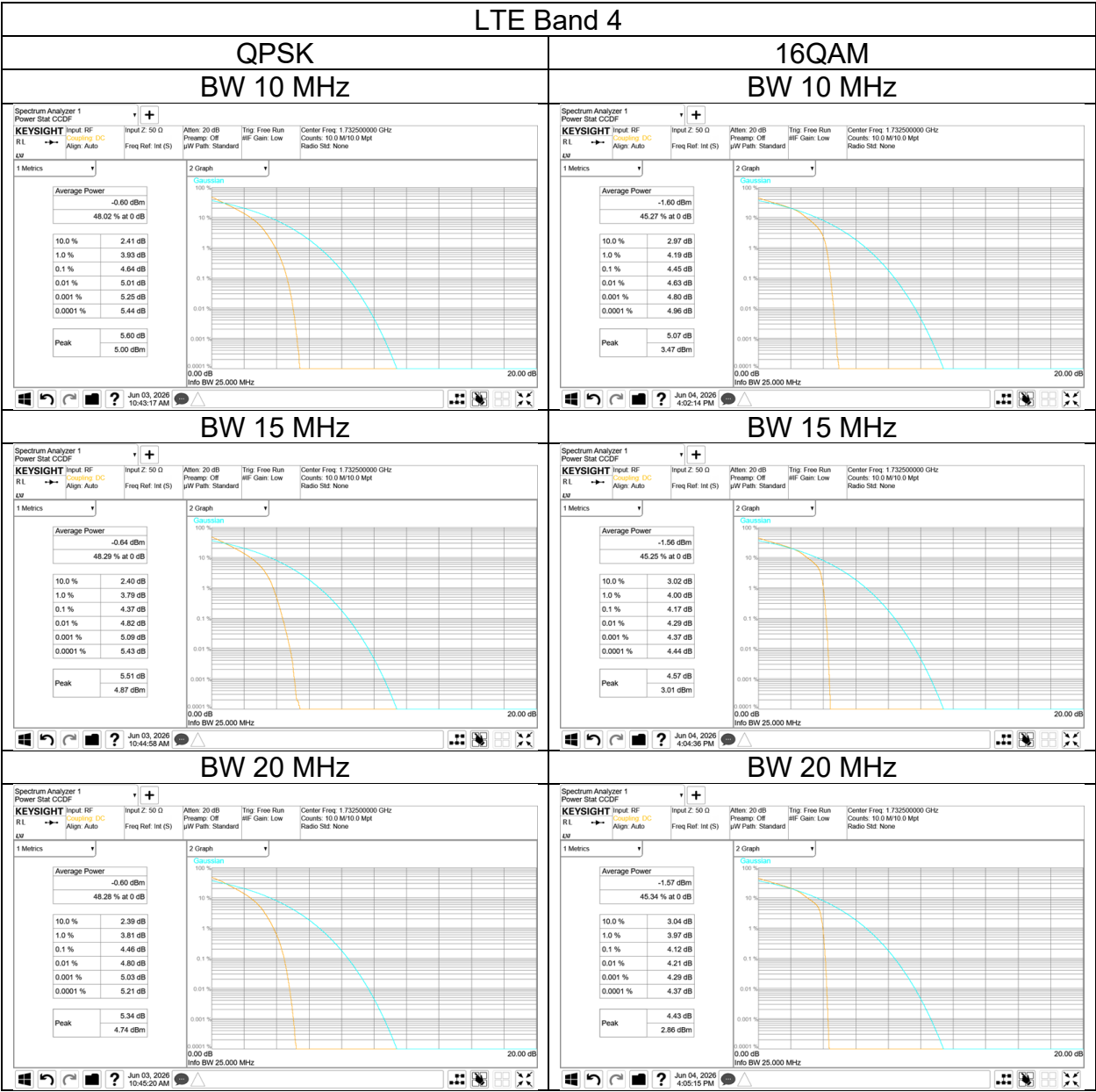
Peak to Average power Ratio



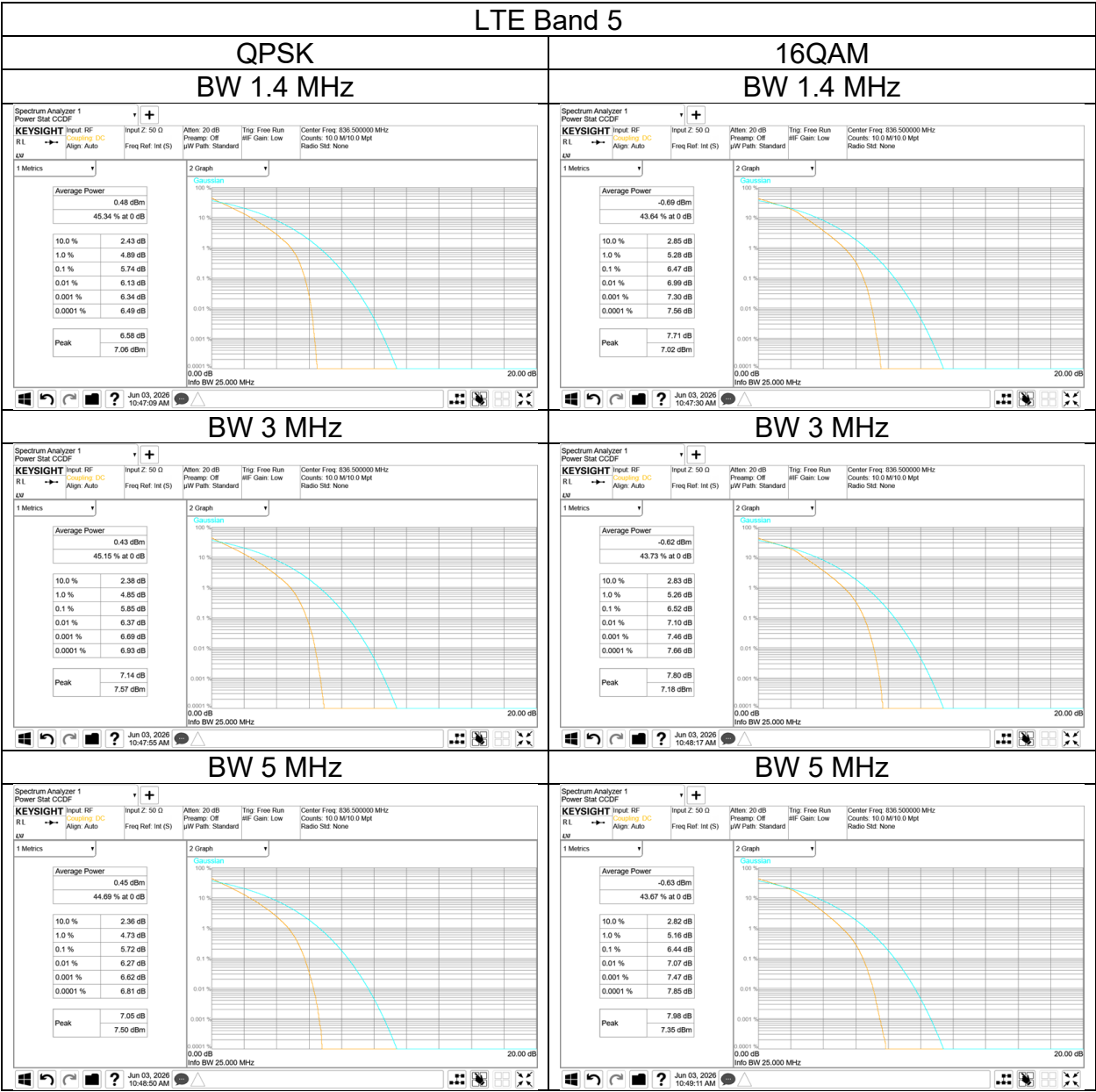
Peak to Average power Ratio



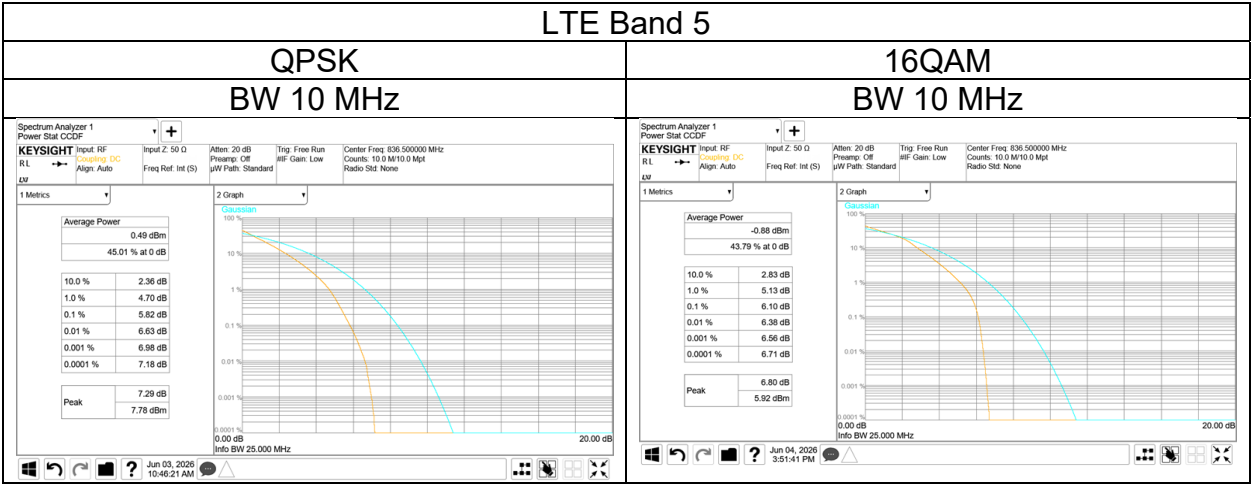
Peak to Average power Ratio



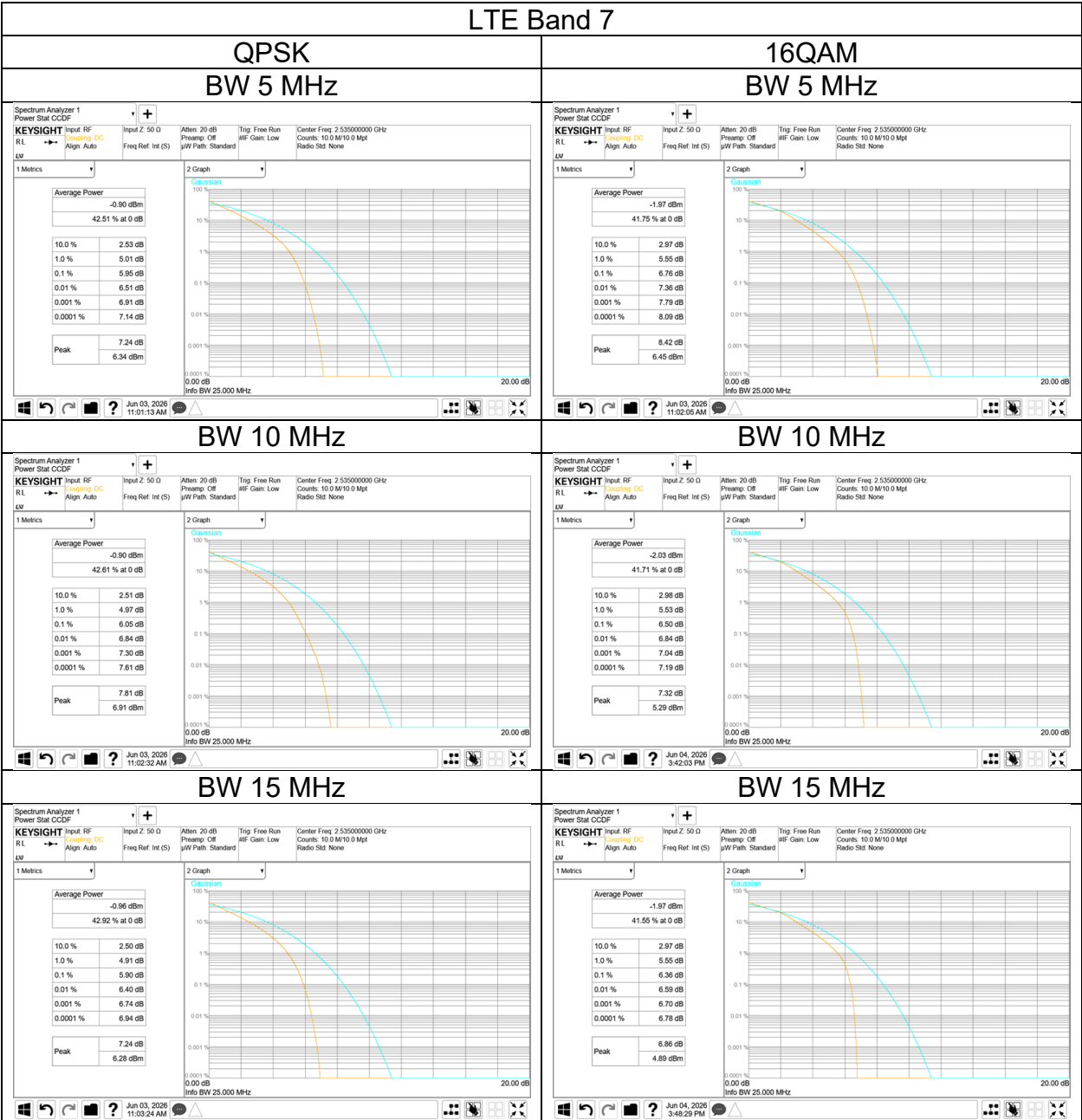
Peak to Average power Ratio



Peak to Average power Ratio



Peak to Average power Ratio



Peak to Average power Ratio

