



FCC RF Test Report

APPLICANT : Inseego Corp.
EQUIPMENT : 5G Enterprise Gateway
BRAND NAME : Inseego
MODEL NAME : S2000e-3
FCC ID : PKRISGS2000E3
STANDARD : 47 CFR Part 2, 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Dec. 16, 2020 and completely tested on Feb. 24, 2021. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This product installed a RF module (Brand Name: Inseego, Model Name: MD2000, FCC ID: PKRISGMD2000) during the test, only RSE test items are tested in this report, all the other test results are quoted in module RF report.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	§2.1046	Conducted Output Power	Reporting Only	PASS	1
	§27.50(c)(10)	Effective Radiated Power (5G NR n12, n71)	ERP < 3 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
-	N/A	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §27.53(h) §27.53(g)	Conducted Band Edge Measurement (5G NR n66) (5G NR n12, n71)	< 43+10log10(P[Watts])	PASS	1
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
-	§2.1051 §27.53(h) §27.53(g)	Conducted Spurious Emission (5G NR n66) (5G NR n12, n71)	< 43+10log10(P[Watts])	PASS	1
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	1
3.4	§2.1053 §27.53(h) §27.53(g)	Radiated Spurious Emission (5G NR n66) (5G NR n12, n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 32.90 dB at 10190.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		

Remark 1:

Test results were leveraged from module RF report which can refer to Sporton report No. "FG090125C" for 5G NR n12/n66, "FG090125-01B" for 5G NR n41/n71.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121

1.2 Manufacturer

MeiG Smart Technology Co., Ltd
Floor 2, Office Building No.5, Lingxia Road, Fenghuang Community, Fuyong Street, Bao 'an District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Enterprise Gateway
Brand Name	Inseego
Model Name	S2000e-3
FCC ID	PKRISGS2000E3
EUT supports Radios application	WCDMA/LTE/5G NR/GNSS Bluetooth BR/EDR/LE
HW Version	1.01
SW Version	2.37
EUT Stage	Identical Prototype

Remark: Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n12: 699 MHz ~ 716 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n12: 729 MHz ~ 746 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n71: 617 MHz ~ 652 MHz
Bandwidth	n12: 5MHz / 10MHz / 15MHz n66, n71: 5MHz / 10MHz / 15MHz / 20MHz n41 : 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.




2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

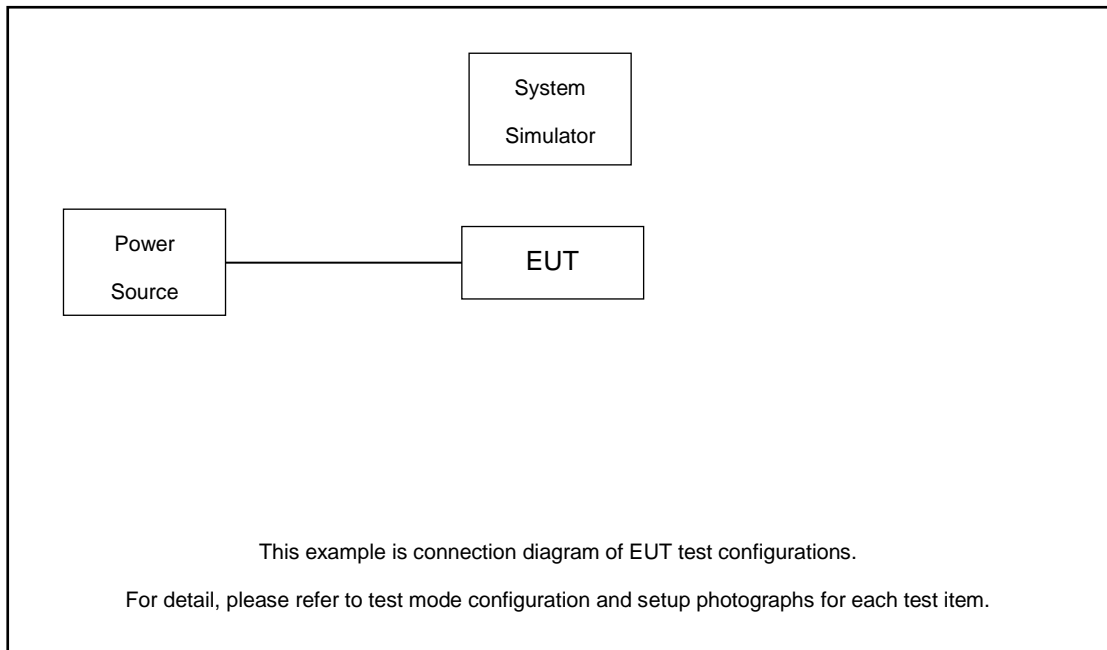
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #			Test Channel				
		5	10	15	20	40-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Halt	Full	L	M	H		
Radiated Spurious Emission	n12	Worst Case																	v	
	n41	Worst Case																	v	
	n66	Worst Case																	v	
	n71	Worst Case																	v	
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 5G NR supports SA and NSA mode (refer to the Operation Description), all the EN-DC modes are tested. All modulations (BPSK/QPSK/16QAM/64QAM/256QAM) have been tested, and only the worst test results are shown in the report . 																			

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

5G NR n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99



5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

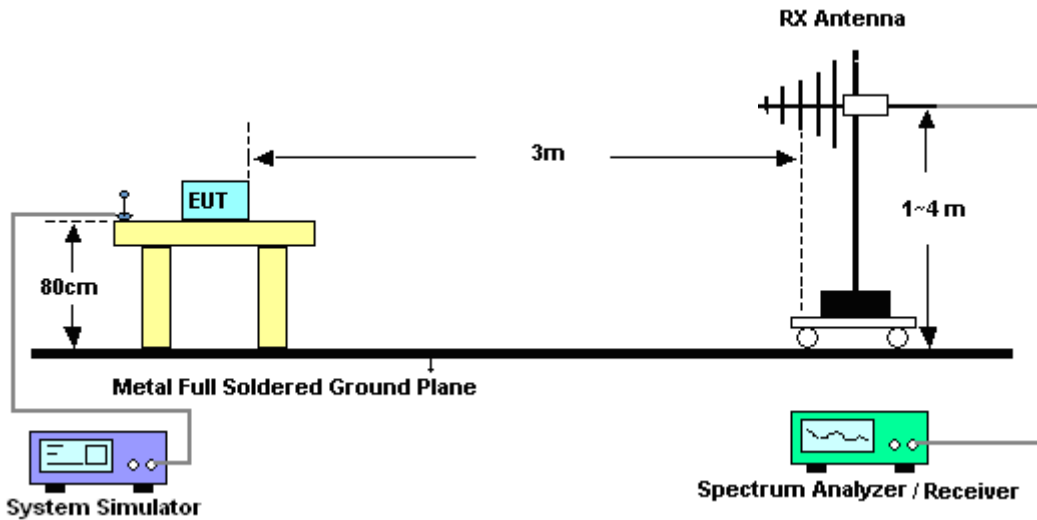
3 Radiated Test Items

3.1 Measuring Instruments

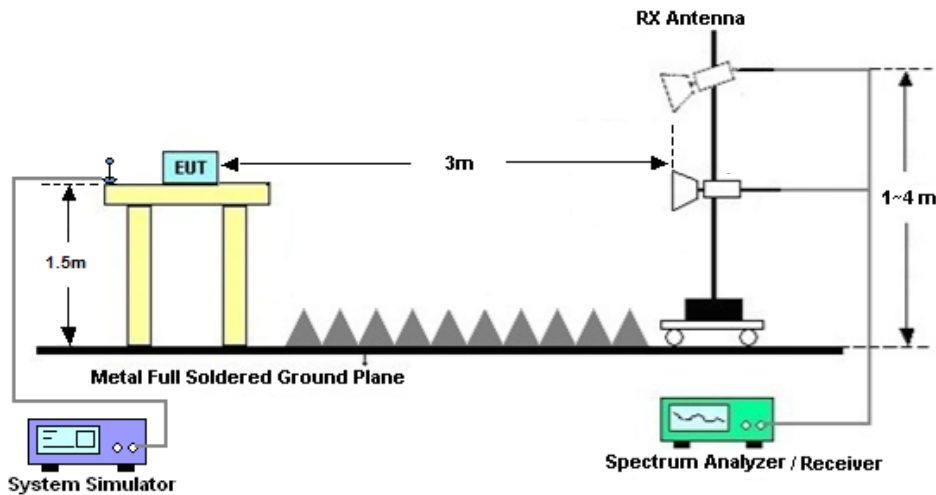
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 For radiated test from 30MHz to 1GHz



3.2.2 For radiated test above 1GHz



3.3 Test Result of Radiated Test

Please refer to Appendix A.



3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Feb. 24, 2021	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 08, 2020	Feb. 24, 2021	Jun. 07, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Feb. 24, 2021	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Feb. 24, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Feb. 24, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Feb. 24, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Feb. 24, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Feb. 24, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 24, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 24, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 24, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission_SA mode

5G NR n12 / NR 15MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1402	-67.86	-13	-54.86	-74.83	1.58	10.70	H
	2102	-61.20	-13	-48.20	-69.45	2.10	12.50	H
	2804	-60.39	-13	-47.39	-69.28	2.86	13.90	H
	3504	-59.97	-13	-46.97	-68.43	2.69	13.30	H
	1402	-67.24	-13	-54.24	-74.21	1.58	10.70	V
	2102	-59.58	-13	-46.58	-67.83	2.10	12.50	V
	2804	-60.20	-13	-47.20	-69.09	2.86	13.90	V
	3504	-60.43	-13	-47.43	-68.89	2.69	13.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n41 / NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5096	-61.14	-25	-36.14	-71.35	3.03	13.24	H
	7644	-60.65	-25	-35.65	-70.10	3.56	13.01	H
	10190	-58.71	-25	-33.71	-68.23	3.92	13.44	H
	5096	-61.15	-25	-36.15	-71.36	3.03	13.24	V
	7644	-60.24	-25	-35.24	-69.69	3.56	13.01	V
	10190	-58.63	-25	-33.63	-68.15	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



5G NR n66 / NR 20MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-58.17	-13	-45.17	-68.91	2.60	13.34	H
	5208	-55.21	-13	-42.21	-65.72	3.01	13.52	H
	6948	-54.93	-13	-41.93	-65.13	3.27	13.47	H
	3471	-58.72	-13	-45.72	-69.46	2.60	13.34	V
	5208	-55.09	-13	-42.09	-65.60	3.01	13.52	V
	6948	-55.00	-13	-42.00	-65.20	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n71 / NR 20MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-67.41	-13	-54.41	-69.16	1.02	4.92	H
	2014	-61.51	-13	-48.51	-63.48	1.27	5.39	H
	2686	-60.07	-13	-47.07	-63.00	1.49	6.57	H
	3360	-60.79	-13	-47.79	-64.19	1.73	7.28	H
	1344	-66.51	-13	-53.51	-68.26	1.02	4.92	V
	2014	-59.56	-13	-46.56	-61.53	1.27	5.39	V
	2686	-59.38	-13	-46.38	-62.31	1.49	6.57	V
	3360	-60.79	-13	-47.79	-64.19	1.73	7.28	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Radiated Spurious Emission_NSA mode

EN-DC_2A_n12A / LTE 10MHz + NR 15MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1402	-64.03	-13	-51.03	-71.00	1.58	10.70	H
	2102	-62.16	-13	-49.16	-70.41	2.10	12.50	H
	2804	-60.71	-13	-47.71	-69.60	2.86	13.90	H
	3504	-60.02	-13	-47.02	-68.48	2.69	13.30	H
	1402	-65.11	-13	-52.11	-72.08	1.58	10.70	V
	2102	-61.24	-13	-48.24	-69.49	2.10	12.50	V
	2804	-60.07	-13	-47.07	-68.96	2.86	13.90	V
	3504	-60.35	-13	-47.35	-68.81	2.69	13.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n12A / LTE 10MHz + NR 15MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1402	-64.19	-13	-51.19	-71.16	1.58	10.70	H
	2102	-62.21	-13	-49.21	-70.46	2.10	12.50	H
	2804	-60.46	-13	-47.46	-69.35	2.86	13.90	H
	3504	-61.13	-13	-48.13	-69.59	2.69	13.30	H
	1402	-65.62	-13	-52.62	-72.59	1.58	10.70	V
	2102	-61.15	-13	-48.15	-69.40	2.10	12.50	V
	2804	-60.07	-13	-47.07	-68.96	2.86	13.90	V
	3504	-59.93	-13	-46.93	-68.39	2.69	13.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n41A / LTE 10MHz + NR 100MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5096	-60.57	-25	-35.57	-70.78	3.03	13.24	H
	7644	-60.35	-25	-35.35	-69.80	3.56	13.01	H
	10190	-57.90	-25	-32.90	-67.42	3.92	13.44	H
	5096	-61.23	-25	-36.23	-71.44	3.03	13.24	V
	7644	-60.80	-25	-35.80	-70.25	3.56	13.01	V
	10190	-59.40	-25	-34.40	-68.92	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_25A_n41A / LTE 10MHz + NR 100MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5096	-60.82	-25	-35.82	-71.03	3.03	13.24	H
	7644	-60.68	-25	-35.68	-70.13	3.56	13.01	H
	10190	-58.98	-25	-33.98	-68.50	3.92	13.44	H
	5096	-61.16	-25	-36.16	-71.37	3.03	13.24	V
	7644	-60.45	-25	-35.45	-69.90	3.56	13.01	V
	10190	-59.15	-25	-34.15	-68.67	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_26A_n41A / LTE 10MHz + NR 100MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5096	-62.40	-25	-37.40	-72.61	3.03	13.24	H
	7644	-60.62	-25	-35.62	-70.07	3.56	13.01	H
	10190	-58.29	-25	-33.29	-67.81	3.92	13.44	H
	5096	-62.05	-25	-37.05	-72.26	3.03	13.24	V
	7644	-60.92	-25	-35.92	-70.37	3.56	13.01	V
	10190	-58.67	-25	-33.67	-68.19	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n41A / LTE 10MHz + NR 100MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5096	-61.19	-25	-36.19	-71.40	3.03	13.24	H
	7644	-60.84	-25	-35.84	-70.29	3.56	13.01	H
	10190	-59.01	-25	-34.01	-68.53	3.92	13.44	H
	5096	-60.94	-25	-35.94	-71.15	3.03	13.24	V
	7644	-60.71	-25	-35.71	-70.16	3.56	13.01	V
	10190	-59.11	-25	-34.11	-68.63	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_2A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-57.58	-13	-44.58	-68.32	2.60	13.34	H
	5208	-54.16	-13	-41.16	-64.67	3.01	13.52	H
	6948	-54.01	-13	-41.01	-64.21	3.27	13.47	H
	3471	-57.92	-13	-44.92	-68.66	2.60	13.34	V
	5208	-53.63	-13	-40.63	-64.14	3.01	13.52	V
	6948	-53.92	-13	-40.92	-64.12	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_5A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-56.57	-13	-43.57	-67.31	2.60	13.34	H
	5208	-54.31	-13	-41.31	-64.82	3.01	13.52	H
	6948	-53.91	-13	-40.91	-64.11	3.27	13.47	H
	3471	-57.41	-13	-44.41	-68.15	2.60	13.34	V
	5208	-53.79	-13	-40.79	-64.30	3.01	13.52	V
	6948	-53.84	-13	-40.84	-64.04	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_7A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-57.62	-13	-44.62	-68.36	2.60	13.34	H
	5028	-54.21	-13	-41.21	-64.72	3.01	13.52	H
	6948	-54.00	-13	-41.00	-64.20	3.27	13.47	H
	3471	-58.02	-13	-45.02	-68.76	2.60	13.34	V
	5028	-54.32	-13	-41.32	-64.83	3.01	13.52	V
	6948	-53.93	-13	-40.93	-64.13	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_12A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.79	-13	-42.79	-66.53	2.60	13.34	H
	5208	-55.21	-13	-42.21	-65.72	3.01	13.52	H
	6948	-53.44	-13	-40.44	-63.64	3.27	13.47	H
	3471	-55.78	-13	-42.78	-66.52	2.60	13.34	V
	5208	-54.97	-13	-41.97	-65.48	3.01	13.52	V
	6948	-53.81	-13	-40.81	-64.01	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_13A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.78	-13	-42.78	-66.52	2.60	13.34	H
	5208	-55.07	-13	-42.07	-65.58	3.01	13.52	H
	6948	-53.69	-13	-40.69	-63.89	3.27	13.47	H
	3471	-57.30	-13	-44.30	-68.04	2.60	13.34	V
	5208	-55.35	-13	-42.35	-65.86	3.01	13.52	V
	6948	-53.90	-13	-40.90	-64.10	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_14A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-56.04	-13	-43.04	-66.78	2.60	13.34	H
	5208	-55.33	-13	-42.33	-65.84	3.01	13.52	H
	6948	-54.07	-13	-41.07	-64.27	3.27	13.47	H
	3471	-57.81	-13	-44.81	-68.55	2.60	13.34	V
	5208	-55.28	-13	-42.28	-65.79	3.01	13.52	V
	6948	-53.55	-13	-40.55	-63.75	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_30A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-56.01	-13	-43.01	-66.75	2.60	13.34	H
	5208	-55.38	-13	-42.38	-65.89	3.01	13.52	H
	6948	-53.82	-13	-40.82	-64.02	3.27	13.47	H
	3471	-56.05	-13	-43.05	-66.79	2.60	13.34	V
	5208	-55.37	-13	-42.37	-65.88	3.01	13.52	V
	6948	-53.92	-13	-40.92	-64.12	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_48A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-51.20	-13	-38.20	-61.94	2.60	13.34	H
	5208	-55.43	-13	-42.43	-65.94	3.01	13.52	H
	6948	-53.90	-13	-40.90	-64.10	3.27	13.47	H
	3471	-47.64	-13	-34.64	-58.38	2.60	13.34	V
	5208	-55.42	-13	-42.42	-65.93	3.01	13.52	V
	6948	-54.00	-13	-41.00	-64.20	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_71A_n66A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-56.68	-13	-43.68	-67.42	2.60	13.34	H
	5208	-55.58	-13	-42.58	-66.09	3.01	13.52	H
	6948	-54.23	-13	-41.23	-64.43	3.27	13.47	H
	3471	-56.41	-13	-43.41	-67.15	2.60	13.34	V
	5208	-55.02	-13	-42.02	-65.53	3.01	13.52	V
	6948	-54.21	-13	-41.21	-64.41	3.27	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_2A_n71A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1342	-65.82	-13	-52.82	-67.57	1.02	4.92	H
	2014	-62.05	-13	-49.05	-64.02	1.27	5.39	H
	2686	-60.03	-13	-47.03	-62.96	1.49	6.57	H
	3360	-60.18	-13	-47.18	-63.58	1.73	7.28	H
	1342	-64.05	-13	-51.05	-65.80	1.02	4.92	V
	2014	-61.25	-13	-48.25	-63.22	1.27	5.39	V
	2686	-59.57	-13	-46.57	-62.50	1.49	6.57	V
	3360	-60.35	-13	-47.35	-63.75	1.73	7.28	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_7A_n71A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1342	-65.37	-13	-52.37	-67.12	1.02	4.92	H
	2014	-62.56	-13	-49.56	-64.53	1.27	5.39	H
	2686	-60.06	-13	-47.06	-62.99	1.49	6.57	H
	3360	-60.03	-13	-47.03	-63.43	1.73	7.28	H
	1342	-63.80	-13	-50.80	-65.55	1.02	4.92	V
	2014	-61.38	-13	-48.38	-63.35	1.27	5.39	V
	2686	-59.75	-13	-46.75	-62.68	1.49	6.57	V
	3360	-60.07	-13	-47.07	-63.47	1.73	7.28	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n71A / LTE 10MHz + NR 20MHz / PI/2 BPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1342	-64.84	-13	-51.84	-66.59	1.02	4.92	H
	2014	-62.59	-13	-49.59	-64.56	1.27	5.39	H
	2686	-59.71	-13	-46.71	-62.64	1.49	6.57	H
	3360	-59.52	-13	-46.52	-62.92	1.73	7.28	H
	1342	-63.73	-13	-50.73	-65.48	1.02	4.92	V
	2014	-61.37	-13	-48.37	-63.34	1.27	5.39	V
	2686	-59.25	-13	-46.25	-62.18	1.49	6.57	V
	3360	-59.96	-13	-46.96	-63.36	1.73	7.28	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.