

TEST REPORT

Applicant: SEUIC Technologies Co., Ltd.
Address: NO.15 Xinghuo Road, Nanjing New & High
Technology Industry Development Zone, 210061,
Nanjing City, Jiangsu Province, China
Equipment Type: Portable Data Collection Terminal
Model Name: CRUISE3 (refer to section 2.3)
Brand Name: Seuic
FCC ID: 2AC68-CRUISE3
Test Standard: 47 CFR Part 2
(Others refer to chapter 3.1)
Sample Arrival Date: Jun. 30, 2026
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zheng Ziyi**Checked by:** Lu Jiamin**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 16, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information.....	5
2.3	General Description for Equipment under Test (EUT).....	5
2.4	Technical Information	6
3	SUMMARY OF TEST RESULTS	8
3.1	Test Standards	8
3.2	Test Verdict	9
3.3	Measurement Uncertainty.....	9
4	GENERAL TEST CONFIGURATIONS	10
4.1	Test Environments.....	10
4.2	Test Equipment List	10
4.3	Test Configurations.....	12
4.4	Test Setup	15
5	TEST ITEMS	17
5.1	Transmitter Radiated Power (EIRP/ERP)	17
5.2	Peak to Average Ratio	21
5.3	Occupied Bandwidth.....	23
5.4	Frequency Stability	25
5.5	Spurious Emission at Antenna Terminals	27
5.6	Band Edge.....	32
5.7	Field Strength of Spurious Radiation	37

ANNEX A	TEST RESULTS.....	43
A.1	Transmitter Radiated Power (EIRP/ERP)	43
A.2	Peak to Average Ratio	80
A.3	Occupied Bandwidth.....	84
A.4	Frequency Stability	90
A.5	Spurious Emission at Antenna Terminals	94
A.6	Band Edge.....	98
A.7	Field Strength of Spurious Radiation	101
ANNEX B	TEST SETUP PHOTOS	103
ANNEX C	EUT EXTERNAL PHOTOS.....	103
ANNEX D	EUT INTERNAL PHOTOS.....	103

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SEUIC Technologies Co., Ltd.
Address	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China

2.2 Manufacturer Information

Manufacturer	SEUIC Technologies Co., Ltd.
Address	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Portable Data Collection Terminal
Model Name Under Test	CRUISE3
Series Model Name	CRUISE3-HC, CRUISE3-C, CRUISE Air
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	00000
Software Version	D770_U_V0.3.6
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

All Network and Wireless connectivity for EUT	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/14/17/25/26/66/71 LTE TDD Band 38/41/48 5G Network SA: n2/n5/n7/n12/n13/n14/n25/n26/n38/n41/n48/n66/n71/n77/n78 NSA(EN-DC): DC_2A_n5A, DC_66A_n5A, DC_2A_n66A, DC_5A_n66A, DC_12A_n66A, DC_5A_n2A, DC_12A_n2A, DC_66A_n2A, DC_2A_n77A, DC_66A_n77A, DC_12A_n77A, DC_66A_n71A, DC_2A_n71A, DC_2A_n41A, DC_12A_n25A, DC_66A_n25A, DC_66A_n41A, DC_48A_n66A, DC_13A_n2A, DC_13A_n66A, DC_48A_n5A, DC_13A_n77A, DC_5A_n77A Bluetooth (BR+EDR+BLE) WiFi 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80), 802.11ax(HE20/40/80/160), 802.11be(EHT20/40/80/160/320) BeiDou, Galileo, GLONASS, GPS, SBAS RFID, NFC
About the Product	The equipment is Portable Data Collection Terminal, intended for used with information technology equipment.

The following is the technical information of the EUT tested frequency bands in this report.

Operating Bands	TDD LTE Band 48 SA: n48/n77/n78 DC_2A_n77A, DC_5A_n77A, DC_12A_n77A, DC_13A_n77A DC_48A_n5A, DC_48A_n66A, DC_66A_n77A	
Modulation Type	LTE	QPSK 16QAM
	NR	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM
Antenna Type	Internal Antenna	
Antenna Gain	TDD LTE Band 48: 3.12 dBi TDD NR Band n48: 3.12 dBi TDD NR Band n77(3550-3700): 3.12 dBi TDD NR Band n78(3700-3800): 3.12 dBi	
The Max RF Output Power (EIRP/ERP)	TDD LTE Band 48: 22.39 dBm TDD NR Band n48: 21.20 dBm TDD NR Band n77(3550-3700): 21.57 dBm TDD NR Band n78(3550-3700): 21.44 dBm DC_2A_n77A: 16.86 dBm	

		DC_5A_n77A: 15.85 dBm DC_12A_n77A: 15.48 dBm DC_13A_n77A: 15.41 dBm DC_48A_n5A: 22.44 dBm DC_48A_n66A: 22.98 dBm DC_66A_n77A: 16.92 dBm	
SCS and Channel Bandwidths		n48_SCS 30kHz: 20 MHz, 30 MHz, 40 MHz	
Band	Power Class	Tx Frequency Range	Rx Frequency Range
LTE B48	3	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz
NR n48	3	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz
NR n77	2	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz
NR n78	2	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz

Note1: The EUT information provided by the applicant, except for The Max RF Conducted Power. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

Note 2: There are multiple antennas for WWAN to transceiving, which can be switched but can't transmit simultaneously. Details please refer to internal photos.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE
3	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
4	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 96.41(b)	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1046	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049	ANNEX A.3	Pass
5	Frequency Stability	2.1055	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 96.41(e)	ANNEX A.5	Pass
7	Band Edge	2.1051 96.41(e)	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 96.41(e)	ANNEX A.7	Pass

3.3 Measurement Uncertainty

Test Case	Uncertainty
Conducted RF Output Power	
$f \leq 3\text{GHz}$	
$\text{BW} \leq 40\text{MHz}$	0.68 dB
$40\text{MHz} < \text{BW} \leq 100\text{MHz}$	1.12 dB
$3\text{GHz} < f \leq 4.2\text{GHz}$	
$\text{BW} \leq 40\text{MHz}$	0.90 dB
$40\text{MHz} < \text{BW} \leq 100\text{MHz}$	1.32 dB
$4.2\text{GHz} < f \leq 6.0\text{GHz}$	
$\text{BW} \leq 20\text{MHz}$	1.08 dB
$20\text{MHz} < \text{BW} \leq 40\text{MHz}$	1.26 dB
$40\text{MHz} < \text{BW} \leq 100\text{MHz}$	1.52 dB
Effective (Isotropic) Radiated Power	2.50dB
Peak to Average Ratio	0.015%
Occupied Bandwidth	1.5% of channel bandwidth
Frequency Stability	12Hz
Spurious Emission at Antenna Terminals	2.56dB
Band Edge	1.48dB
Field Strength of Spurious Radiation	4.55dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the environmental conditions were within the listed ranges:

Relative Humidity		25% to 75%
Atmospheric Pressure		98 kPa to 102 kPa
Test Voltage of the EUT	NV (Normal Voltage)	3.85V
	LV (Low Voltage)	3.4V
	HV (High Voltage)	4.4V
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	55 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
2/3/4/5G RF Test System						
BL410 Test Software	BALUN	BL410R	N/A	3.0.1.536	N/A	N/A
CMUgo Test Software	R&S	CMUgo	N/A	V2.0.1	N/A	N/A
UCTS Test Software	Anritsu	UCTS	N/A	V 6.21.1105.0	N/A	N/A
Temperature Chamber	OK	OK-TH-100C	OK2022110401	N/A	2025-09-15	2026-09-14
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2025-10-20	2026-10-19
Wideband Radio Communication Tester	R&S	CMW 500	100854	V3.7.172	2025-12-25	2026-12-24
Radio Communication Test Station	Anritsu	MT8821C	6201588572	40.10S #017	2025-12-25	2026-12-24
Radio Communication Test Station	Anritsu	MT8000A	6261940329	Ver.8.60.4.0	2025-10-20	2026-10-19
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2025-10-30	2026-10-29
5G Wireless Test Platform	Starpont	SP9500-CTS	20395	C1.0.7.30+SP 1	2025-12-25	2026-12-24
DC Power Supply	ITECH	IT6863A	8000140207571 20008	N/A	2025-07-28	2026-07-27
					2026-07-13	2027-07-12
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2026-06-22	2027-06-21
Radiated Test System						
Radiated Test System Test Software	BALUN	BL410-E	N/A	V22.4	N/A	N/A
Wideband Radio	R&S	CMW 500	100854	V3.7.172	2025-12-25	2026-12-24

Communication Tester						
5G Wireless Test Platform	Keysight	E7515B UXM	MY59321617	15.26.12.8161	2026-06-23	2027-06-22
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2025-10-30	2026-10-29
Test Antenna-Horn(18-40 GHz)	A-INFO	LB-180400KF	J211060273	N/A	2024-06-15	2027-06-14
Test Antenna-Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	01414	N/A	2023-11-03	2026-11-02
Test Antenna-Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	02459	N/A	2023-10-26	2026-10-25
Anechoic Chamber	YIHENG	C8-966	N/A	N/A	2024-05-15	2027-05-11
EMI Receiver	Keysight	N9038A	MY55330121	A.20.03	2025-12-26	2026-12-25

4.3 Test Configurations

LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MC H	HCH
Effective (Isotropic) Radiated Power														
48	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Peak to Average Ratio														
48	n	n	--	--	--	v	v	v	v	--	v	v	v	v
Occupied Bandwidth														
48	n	n	v	v	v	v	v	v	--	--	v	v	v	v
Frequency Stability														
48	n	n	--	v	--	--	v	v	--	--	v	--	v	--
Spurious Emission at Antenna Terminals														
48	n	n	v	v	v	v	v	v	v	--	--	v	v	v
Band Edge														
48	n	n	v	v	v	v	v	v	v	--	v	v	--	v
Field Strength of Spurious Radiation														
48	Worst Case													
Note 1: The mark “v” means that this configuration is chosen for testing.														
Note 2: The mark “n” means that this bandwidth is not supported.														

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 48	Low Range	5	55265	3552.5
		10	55290	3555
		15	55315	3557.5
		20	55340	3560
	Middle Range	5/10/15/20	55990	3625
	High Range	5	56715	3697.5
		10	56690	3695
		15	56665	3692.5
		20	56640	3690

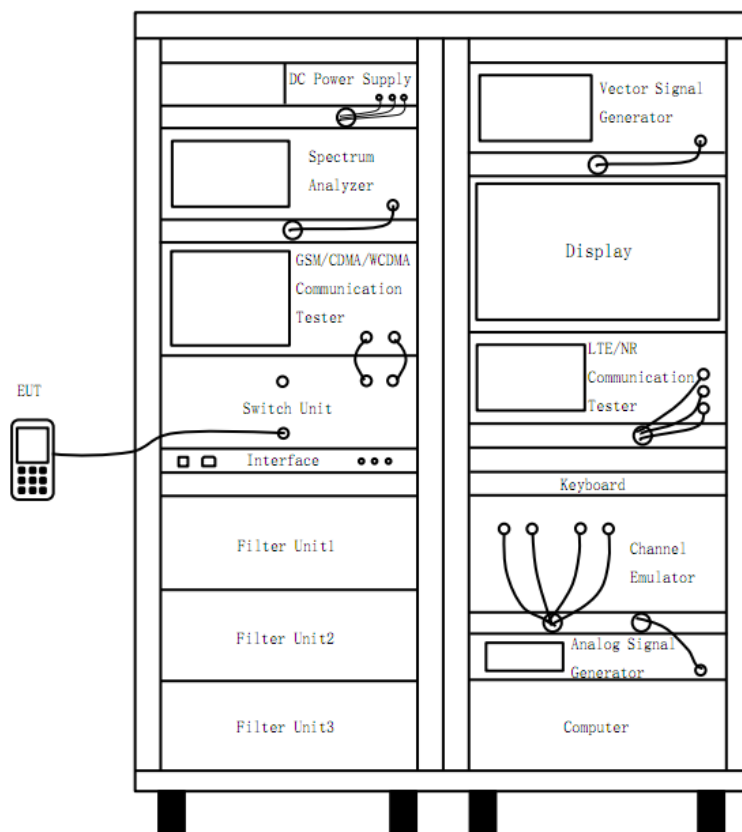
Test Mode	Channel Bandwidth (MHz)	UL Channel	UL Channel No.	UL Frequency (MHz)
NR Band n48	20	Low Range	637334	3560.01
		Middle Range	641666	3624.99
		High Range	646000	3690
	30	Low Range	637668	3565.02
		Middle Range	641666	3624.99
		High Range	645666	3684.99
	40	Low Range	638000	3570
		Middle Range	641666	3624.99
		High Range	645332	3679.98

Test Mode	Channel Bandwidth (MHz)	UL Channel	UL Channel No.	UL Frequency (MHz)
NR Band n77(3550-3700 MHz)	20	Low Range	637334	3560.01
		Middle Range	641666	3624.99
		High Range	646000	3690
	30	Low Range	637668	3565.02
		Middle Range	641666	3624.99
		High Range	645666	3684.99
	40	Low Range	638000	3570
		Middle Range	641666	3624.99
		High Range	645332	3679.98
	60	Low Range	638668	3580.02
		Middle Range	641666	3624.99
		High Range	644666	3669.99
	80	Low Range	639334	3590.01
		Middle Range	641666	3624.99
		High Range	644000	3660
	100	Low Range	640000	3510
		Middle Range	641666	3624.99
		High Range	643332	3649.98

Test Mode	Channel Bandwidth (MHz)	UL Channel	UL Channel No.	UL Frequency (MHz)
NR Band n78(3500-3700 MHz)	20	Low Range	637334	3560.01
		Middle Range	641666	3624.99
		High Range	646000	3690
	30	Low Range	637668	3565.02
		Middle Range	641666	3624.99
		High Range	645666	3684.99
	40	Low Range	638000	3570
		Middle Range	641666	3624.99
		High Range	645332	3679.98
	60	Low Range	638668	3580.02
		Middle Range	641666	3624.99
		High Range	644666	3669.99
	80	Low Range	639334	3590.01
		Middle Range	641666	3624.99
		High Range	644000	3660
	100	Low Range	640000	3510
		Middle Range	641666	3624.99
		High Range	643332	3649.98

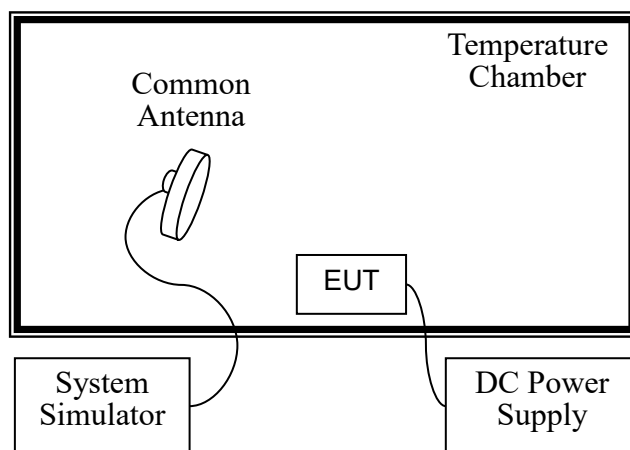
4.4 Test Setup

4.4.1 For Antenna Port Test



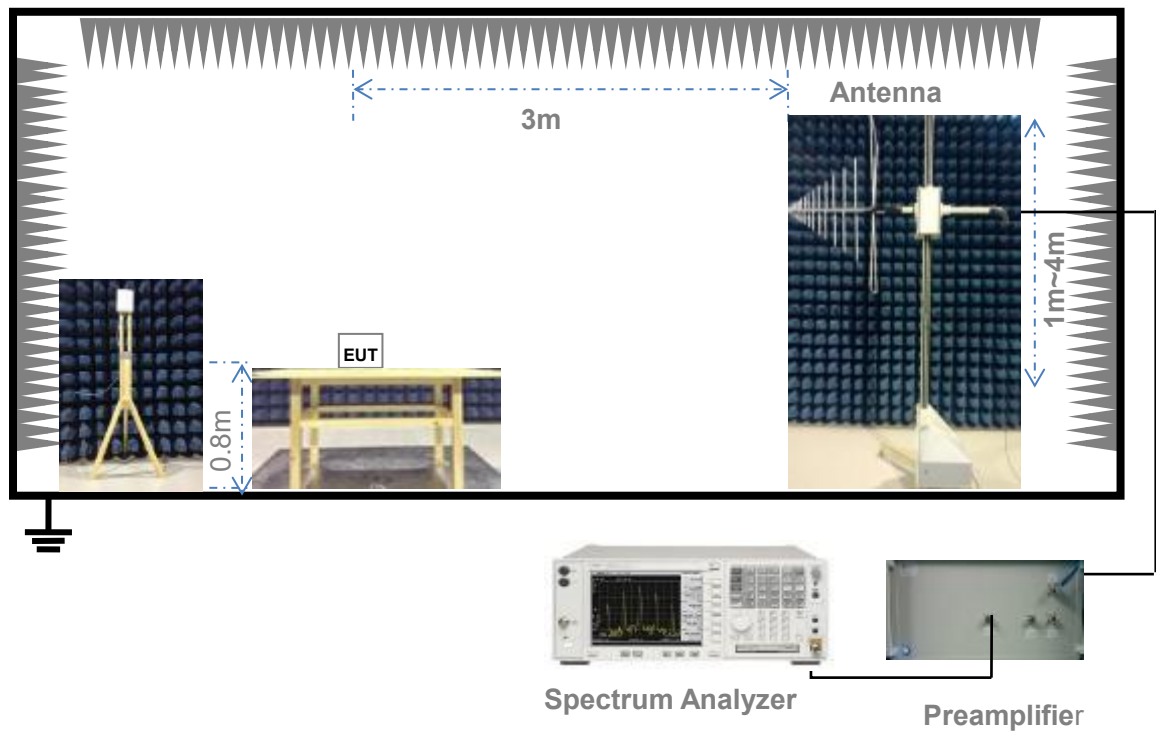
(Diagram 1)

4.4.2 For Frequency Stability Test



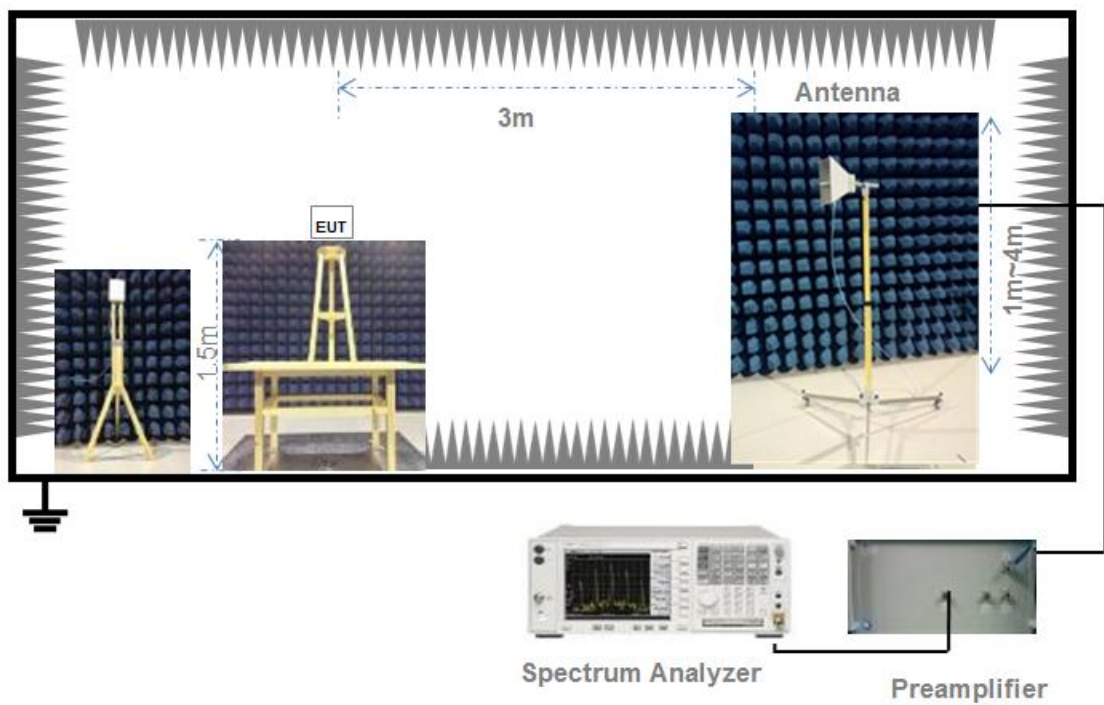
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 27.50(j) & 27.50(k) & 90.635(b) & 90.542(a) & 96.41(b)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(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.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(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.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for 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.

FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC section 96.41(b), the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph below:

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	N/A
Category A CBSD	30	20
Category B CBSD ^{note1}	47	37

Note1: Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67.

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + \text{GT} - \text{LC}$$

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

dBd (ERP)=dBi (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when P_{Meas} value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBi} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d) & 27.50(j) & 27.50(k)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d) (5) & 27.50(j) & 27.50(k), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,

2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 4.2 to measure the total average power and record as P_{Avg} . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and on above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is

recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC § 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

FCC § 90.213

The frequency stability shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.
2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
4. Repeat procedure 3 until +50°C and -30°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the 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, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz 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 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, 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.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758 – 768 MHz and the 788 – 798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 769 – 775 MHz and 799 – 805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769 – 775 MHz and 799 – 805 MHz, by a factor not less than $65 + 10 \log (P)$

dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside

and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.
2. Base Station is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the 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, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz 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 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, 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.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (–25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

2. Base Station is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.

3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.

4. The center of the spectrum analyzer was set to block edge frequency.

5. Band edge are tested with $1\% \cdot \text{cBW}$ (RBW), and sweep point number referred to following formula.

$$\text{Sweep point number} = 2 \cdot \text{Span} / \text{RBW}$$

VBW=3RBW

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

$$10 \cdot \log(10 \text{ kHz} / 6.25 \text{ kHz}) = 2.04 \text{ dB}$$

$$\text{Limit Line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

FCC § 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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the 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, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of

measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz 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 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, 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.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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. Mobile Satellite Service

licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559– 1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for

wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.

7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.7.4 Test Result

Please refer to ANNEX A.7.

ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND48									
5 MHz	LCH	QPSK	RB1#0	19.24	3.12	22.36	0.172	0.200	Pass
			RB1#13	19.27	3.12	22.39	0.173	0.200	Pass
			RB1#24	19.17	3.12	22.29	0.169	0.200	Pass
			RB12#0	18.26	3.12	21.38	0.137	0.200	Pass
			RB12#6	18.28	3.12	21.40	0.138	0.200	Pass
			RB12#13	18.16	3.12	21.28	0.134	0.200	Pass
			RB25#0	18.22	3.12	21.34	0.136	0.200	Pass
		16-QAM	RB1#0	18.46	3.12	21.58	0.144	0.200	Pass
			RB1#13	18.32	3.12	21.44	0.139	0.200	Pass
			RB1#24	18.25	3.12	21.37	0.137	0.200	Pass
			RB12#0	17.31	3.12	20.43	0.110	0.200	Pass
			RB12#6	17.31	3.12	20.43	0.110	0.200	Pass
			RB12#13	17.22	3.12	20.34	0.108	0.200	Pass
			RB25#0	17.21	3.12	20.33	0.108	0.200	Pass
	MCH	QPSK	RB1#0	18.94	3.12	22.06	0.161	0.200	Pass
			RB1#13	19	3.12	22.12	0.163	0.200	Pass
			RB1#24	18.88	3.12	22.00	0.158	0.200	Pass
			RB12#0	17.98	3.12	21.10	0.129	0.200	Pass
			RB12#6	17.99	3.12	21.11	0.129	0.200	Pass
			RB12#13	17.9	3.12	21.02	0.126	0.200	Pass
			RB25#0	17.95	3.12	21.07	0.128	0.200	Pass
		16-QAM	RB1#0	18.18	3.12	21.30	0.135	0.200	Pass
			RB1#13	18.04	3.12	21.16	0.131	0.200	Pass
			RB1#24	18.02	3.12	21.14	0.130	0.200	Pass
			RB12#0	16.95	3.12	20.07	0.102	0.200	Pass
			RB12#6	17	3.12	20.12	0.103	0.200	Pass
			RB12#13	17	3.12	20.12	0.103	0.200	Pass
			RB25#0	16.95	3.12	20.07	0.102	0.200	Pass
	HCH	QPSK	RB1#0	18.9	3.12	22.02	0.159	0.200	Pass
			RB1#13	18.93	3.12	22.05	0.160	0.200	Pass
			RB1#24	18.87	3.12	21.99	0.158	0.200	Pass
			RB12#0	17.88	3.12	21.00	0.126	0.200	Pass
			RB12#6	17.94	3.12	21.06	0.128	0.200	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND48									
			RB12#13	17.89	3.12	21.01	0.126	0.200	Pass
			RB25#0	17.91	3.12	21.03	0.127	0.200	Pass
		16-QAM	RB1#0	18.11	3.12	21.23	0.133	0.200	Pass
			RB1#13	18.19	3.12	21.31	0.135	0.200	Pass
			RB1#24	18.03	3.12	21.15	0.130	0.200	Pass
			RB12#0	16.88	3.12	20.00	0.100	0.200	Pass
			RB12#6	16.92	3.12	20.04	0.101	0.200	Pass
			RB12#13	16.87	3.12	19.99	0.100	0.200	Pass
			RB25#0	16.89	3.12	20.01	0.100	0.200	Pass
10 MHz	LCH	QPSK	RB1#0	19.23	3.12	22.35	0.172	0.200	Pass
			RB1#25	19.26	3.12	22.38	0.173	0.200	Pass
			RB1#49	19.14	3.12	22.26	0.168	0.200	Pass
			RB25#0	18.3	3.12	21.42	0.139	0.200	Pass
			RB25#13	18.29	3.12	21.41	0.138	0.200	Pass
			RB25#25	18.17	3.12	21.29	0.135	0.200	Pass
			RB50#0	18.3	3.12	21.42	0.139	0.200	Pass
		16-QAM	RB1#0	18.44	3.12	21.56	0.143	0.200	Pass
			RB1#25	18.45	3.12	21.57	0.144	0.200	Pass
			RB1#49	18.35	3.12	21.47	0.140	0.200	Pass
			RB25#0	17.3	3.12	20.42	0.110	0.200	Pass
			RB25#13	17.32	3.12	20.44	0.111	0.200	Pass
			RB25#25	17.2	3.12	20.32	0.108	0.200	Pass
			RB50#0	17.3	3.12	20.42	0.110	0.200	Pass
	MCH	QPSK	RB1#0	18.98	3.12	22.10	0.162	0.200	Pass
			RB1#25	18.9	3.12	22.02	0.159	0.200	Pass
			RB1#49	18.77	3.12	21.89	0.155	0.200	Pass
			RB25#0	18	3.12	21.12	0.129	0.200	Pass
			RB25#13	17.99	3.12	21.11	0.129	0.200	Pass
			RB25#25	17.86	3.12	20.98	0.125	0.200	Pass
			RB50#0	17.96	3.12	21.08	0.128	0.200	Pass
		16-QAM	RB1#0	18.07	3.12	21.19	0.132	0.200	Pass
			RB1#25	18.05	3.12	21.17	0.131	0.200	Pass
			RB1#49	17.91	3.12	21.03	0.127	0.200	Pass
			RB25#0	17	3.12	20.12	0.103	0.200	Pass
			RB25#13	16.98	3.12	20.10	0.102	0.200	Pass
			RB25#25	16.87	3.12	19.99	0.100	0.200	Pass
			RB50#0	16.98	3.12	20.10	0.102	0.200	Pass
	HCH	QPSK	RB1#0	18.87	3.12	21.99	0.158	0.200	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND48									
			RB1#25	18.89	3.12	22.01	0.159	0.200	Pass
			RB1#49	18.81	3.12	21.93	0.156	0.200	Pass
			RB25#0	17.87	3.12	20.99	0.126	0.200	Pass
			RB25#13	17.87	3.12	20.99	0.126	0.200	Pass
			RB25#25	17.83	3.12	20.95	0.124	0.200	Pass
			RB50#0	17.87	3.12	20.99	0.126	0.200	Pass
		16-QAM	RB1#0	18.08	3.12	21.20	0.132	0.200	Pass
			RB1#25	18.03	3.12	21.15	0.130	0.200	Pass
			RB1#49	17.99	3.12	21.11	0.129	0.200	Pass
			RB25#0	16.92	3.12	20.04	0.101	0.200	Pass
			RB25#13	16.95	3.12	20.07	0.102	0.200	Pass
			RB25#25	16.89	3.12	20.01	0.100	0.200	Pass
			RB50#0	16.89	3.12	20.01	0.100	0.200	Pass
15 MHz	LCH	QPSK	RB1#0	19.01	3.12	22.13	0.163	0.200	Pass
			RB1#38	19	3.12	22.12	0.163	0.200	Pass
			RB1#74	18.9	3.12	22.02	0.159	0.200	Pass
			RB36#0	18.16	3.12	21.28	0.134	0.200	Pass
			RB36#19	18.05	3.12	21.17	0.131	0.200	Pass
			RB36#39	18.03	3.12	21.15	0.130	0.200	Pass
			RB75#0	18.08	3.12	21.20	0.132	0.200	Pass
		16-QAM	RB1#0	18.28	3.12	21.40	0.138	0.200	Pass
			RB1#38	18.26	3.12	21.38	0.137	0.200	Pass
			RB1#74	18.11	3.12	21.23	0.133	0.200	Pass
			RB36#0	17.14	3.12	20.26	0.106	0.200	Pass
			RB36#19	17.04	3.12	20.16	0.104	0.200	Pass
			RB36#39	17.01	3.12	20.13	0.103	0.200	Pass
			RB75#0	17.02	3.12	20.14	0.103	0.200	Pass
	MCH	QPSK	RB1#0	18.74	3.12	21.86	0.153	0.200	Pass
			RB1#38	18.71	3.12	21.83	0.152	0.200	Pass
			RB1#74	18.6	3.12	21.72	0.149	0.200	Pass
			RB36#0	17.84	3.12	20.96	0.125	0.200	Pass
			RB36#19	17.82	3.12	20.94	0.124	0.200	Pass
			RB36#39	17.66	3.12	20.78	0.120	0.200	Pass
			RB75#0	17.77	3.12	20.89	0.123	0.200	Pass
		16-QAM	RB1#0	17.89	3.12	21.01	0.126	0.200	Pass
			RB1#38	17.88	3.12	21.00	0.126	0.200	Pass
			RB1#74	17.77	3.12	20.89	0.123	0.200	Pass
			RB36#0	16.8	3.12	19.92	0.098	0.200	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND48									
20 MHz	HCH		RB36#19	16.78	3.12	19.90	0.098	0.200	Pass
			RB36#39	16.71	3.12	19.83	0.096	0.200	Pass
			RB75#0	16.81	3.12	19.93	0.098	0.200	Pass
		QPSK	RB1#0	18.67	3.12	21.79	0.151	0.200	Pass
			RB1#38	18.69	3.12	21.81	0.152	0.200	Pass
			RB1#74	18.56	3.12	21.68	0.147	0.200	Pass
			RB36#0	17.75	3.12	20.87	0.122	0.200	Pass
			RB36#19	17.73	3.12	20.85	0.122	0.200	Pass
			RB36#39	17.72	3.12	20.84	0.121	0.200	Pass
			RB75#0	17.75	3.12	20.87	0.122	0.200	Pass
		16-QAM	RB1#0	17.87	3.12	20.99	0.126	0.200	Pass
			RB1#38	17.78	3.12	20.90	0.123	0.200	Pass
			RB1#74	17.64	3.12	20.76	0.119	0.200	Pass
			RB36#0	16.79	3.12	19.91	0.098	0.200	Pass
			RB36#19	16.75	3.12	19.87	0.097	0.200	Pass
			RB36#39	16.7	3.12	19.82	0.096	0.200	Pass
			RB75#0	16.75	3.12	19.87	0.097	0.200	Pass
20 MHz	LCH	QPSK	RB1#0	19.12	3.12	22.24	0.167	0.200	Pass
			RB1#50	19.1	3.12	22.22	0.167	0.200	Pass
			RB1#99	18.93	3.12	22.05	0.160	0.200	Pass
			RB50#0	18.2	3.12	21.32	0.136	0.200	Pass
			RB50#25	18.08	3.12	21.20	0.132	0.200	Pass
			RB50#50	18.01	3.12	21.13	0.130	0.200	Pass
			RB100#0	18.02	3.12	21.14	0.130	0.200	Pass
		16-QAM	RB1#0	18.29	3.12	21.41	0.138	0.200	Pass
			RB1#50	18.25	3.12	21.37	0.137	0.200	Pass
			RB1#99	18	3.12	21.12	0.129	0.200	Pass
			RB50#0	17.17	3.12	20.29	0.107	0.200	Pass
			RB50#25	17.11	3.12	20.23	0.105	0.200	Pass
			RB50#50	17.01	3.12	20.13	0.103	0.200	Pass
			RB100#0	17.06	3.12	20.18	0.104	0.200	Pass
	MCH	QPSK	RB1#0	18.77	3.12	21.89	0.155	0.200	Pass
			RB1#50	18.78	3.12	21.90	0.155	0.200	Pass
			RB1#99	18.61	3.12	21.73	0.149	0.200	Pass
			RB50#0	17.84	3.12	20.96	0.125	0.200	Pass
			RB50#25	17.82	3.12	20.94	0.124	0.200	Pass
			RB50#50	17.7	3.12	20.82	0.121	0.200	Pass
			RB100#0	17.82	3.12	20.94	0.124	0.200	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND48									
		16-QAM	RB1#0	17.9	3.12	21.02	0.126	0.200	Pass
			RB1#50	17.76	3.12	20.88	0.122	0.200	Pass
			RB1#99	17.61	3.12	20.73	0.118	0.200	Pass
			RB50#0	16.83	3.12	19.95	0.099	0.200	Pass
			RB50#25	16.8	3.12	19.92	0.098	0.200	Pass
			RB50#50	16.68	3.12	19.80	0.095	0.200	Pass
			RB100#0	16.8	3.12	19.92	0.098	0.200	Pass
	HCH	QPSK	RB1#0	18.74	3.12	21.86	0.153	0.200	Pass
			RB1#50	18.69	3.12	21.81	0.152	0.200	Pass
			RB1#99	18.57	3.12	21.69	0.148	0.200	Pass
			RB50#0	17.76	3.12	20.88	0.122	0.200	Pass
			RB50#25	17.75	3.12	20.87	0.122	0.200	Pass
			RB50#50	17.71	3.12	20.83	0.121	0.200	Pass
			RB100#0	17.71	3.12	20.83	0.121	0.200	Pass
		16-QAM	RB1#0	17.93	3.12	21.05	0.127	0.200	Pass
			RB1#50	17.96	3.12	21.08	0.128	0.200	Pass
			RB1#99	17.78	3.12	20.90	0.123	0.200	Pass
			RB50#0	16.75	3.12	19.87	0.097	0.200	Pass
			RB50#25	16.76	3.12	19.88	0.097	0.200	Pass
			RB50#50	16.73	3.12	19.85	0.097	0.200	Pass
			RB100#0	16.71	3.12	19.83	0.096	0.200	Pass

NR Mode Test Data

Test BW	Test Channel	Test Mode	UL RB Number	UL RB Position	Conducted Output AV Power(dBm)	EIRP (W)	Limit (W)	Verdict
NR Band n48								
20	LCH	PI/2 BPSK	25	12	17.97	0.129	0.200	Pass
			1	1	13.88	0.050	0.200	Pass
			1	49	17.93	0.127	0.200	Pass
		QPSK	25	12	18	0.129	0.200	Pass
			1	1	13.78	0.049	0.200	Pass
			1	49	17.87	0.126	0.200	Pass
		16QAM	25	12	17	0.103	0.200	Pass
			1	1	12.88	0.040	0.200	Pass
			1	49	16.9	0.100	0.200	Pass
		64QAM	25	12	15.36	0.070	0.200	Pass
			1	1	12.84	0.039	0.200	Pass
			1	49	15.37	0.071	0.200	Pass
		256QAM	25	12	13.33	0.044	0.200	Pass
			1	1	13.4	0.045	0.200	Pass
			1	49	13.3	0.044	0.200	Pass
	MCH	PI/2 BPSK	25	12	17.97	0.129	0.200	Pass
			1	1	17.91	0.127	0.200	Pass
			1	49	17.91	0.127	0.200	Pass
		QPSK	25	12	17.98	0.129	0.200	Pass
			1	1	17.94	0.128	0.200	Pass
			1	49	17.92	0.127	0.200	Pass
		16QAM	25	12	17.03	0.104	0.200	Pass
			1	1	17.02	0.103	0.200	Pass
			1	49	16.95	0.102	0.200	Pass
		64QAM	25	12	15.44	0.072	0.200	Pass
			1	1	15.48	0.072	0.200	Pass
			1	49	15.43	0.072	0.200	Pass
		256QAM	25	12	13.47	0.046	0.200	Pass
			1	1	13.48	0.046	0.200	Pass
			1	49	13.4	0.045	0.200	Pass
	HCH	PI/2 BPSK	25	12	17.87	0.126	0.200	Pass
			1	1	17.86	0.125	0.200	Pass
			1	49	13.69	0.048	0.200	Pass
		QPSK	25	12	17.84	0.125	0.200	Pass
			1	1	17.86	0.125	0.200	Pass
			1	49	13.7	0.048	0.200	Pass
		16QAM	25	12	16.9	0.100	0.200	Pass
			1	1	16.9	0.100	0.200	Pass

30	LCH	64QAM	1	49	12.81	0.039	0.200	Pass
			25	12	15.31	0.070	0.200	Pass
			1	1	15.4	0.071	0.200	Pass
		256QAM	1	49	12.84	0.039	0.200	Pass
			25	12	13.32	0.044	0.200	Pass
			1	1	13.32	0.044	0.200	Pass
		PI/2 BPSK	1	49	13.27	0.044	0.200	Pass
			25	12	7.33	0.011	0.200	Pass
			1	1	7.27	0.011	0.200	Pass
30	MCH	64QAM	1	49	7.25	0.011	0.200	Pass
			25	12	7.31	0.011	0.200	Pass
			1	1	7.28	0.011	0.200	Pass
		16QAM	1	49	7.27	0.011	0.200	Pass
			25	12	6.74	0.010	0.200	Pass
			1	1	6.84	0.010	0.200	Pass
		256QAM	1	49	6.83	0.010	0.200	Pass
			25	12	6.87	0.010	0.200	Pass
			1	1	6.65	0.009	0.200	Pass
30	HCH	64QAM	1	49	6.79	0.010	0.200	Pass
			25	12	6.77	0.010	0.200	Pass
			1	1	6.79	0.010	0.200	Pass
	MCH	64QAM	1	49	6.82	0.010	0.200	Pass
			25	12	18.03	0.130	0.200	Pass
			1	1	14.01	0.052	0.200	Pass
		16QAM	1	49	13.85	0.050	0.200	Pass
			25	12	18.08	0.132	0.200	Pass
			1	1	14.01	0.052	0.200	Pass
		256QAM	1	49	13.85	0.050	0.200	Pass
			25	12	17.03	0.104	0.200	Pass
			1	1	14.15	0.053	0.200	Pass
30	LCH	64QAM	1	49	13.89	0.050	0.200	Pass
			25	12	15.51	0.073	0.200	Pass
			1	1	14.06	0.052	0.200	Pass
		16QAM	1	49	13.85	0.050	0.200	Pass
			25	12	13.53	0.046	0.200	Pass
			1	1	13.48	0.046	0.200	Pass
		256QAM	1	49	13.32	0.044	0.200	Pass
			25	12	17.83	0.124	0.200	Pass
			1	1	7.44	0.011	0.200	Pass
30	MCH	64QAM	1	49	7.02	0.010	0.200	Pass
			25	12	17.95	0.128	0.200	Pass
			1	1	7.46	0.011	0.200	Pass
		16QAM	1	49	7.03	0.010	0.200	Pass
			25	12	7.33	0.011	0.200	Pass
			1	1	7.27	0.011	0.200	Pass
		256QAM	1	49	7.25	0.011	0.200	Pass
			25	12	7.31	0.011	0.200	Pass
			1	1	7.28	0.011	0.200	Pass
30	HCH	64QAM	1	49	7.27	0.011	0.200	Pass
			25	12	6.74	0.010	0.200	Pass
			1	1	6.84	0.010	0.200	Pass
		16QAM	1	49	6.83	0.010	0.200	Pass
			25	12	6.87	0.010	0.200	Pass
			1	1	6.65	0.009	0.200	Pass
		256QAM	1	49	6.79	0.010	0.200	Pass
			25	12	6.77	0.010	0.200	Pass
			1	1	6.79	0.010	0.200	Pass

		16QAM	25	12	16.82	0.099	0.200	Pass
			1	1	7.02	0.010	0.200	Pass
			1	49	6.59	0.009	0.200	Pass
		64QAM	25	12	15.3	0.070	0.200	Pass
			1	1	6.82	0.010	0.200	Pass
			1	49	6.47	0.009	0.200	Pass
		256QAM	25	12	13.32	0.044	0.200	Pass
			1	1	6.99	0.010	0.200	Pass
			1	49	6.59	0.009	0.200	Pass
40	LCH	PI/2 BPSK	50	25	7.43	0.011	0.200	Pass
			1	1	7.39	0.011	0.200	Pass
			1	104	7.57	0.012	0.200	Pass
		QPSK	50	25	7.47	0.011	0.200	Pass
			1	1	7.45	0.011	0.200	Pass
			1	104	7.59	0.012	0.200	Pass
		16QAM	50	25	6.98	0.010	0.200	Pass
			1	1	6.95	0.010	0.200	Pass
			1	104	7.11	0.011	0.200	Pass
		64QAM	50	25	6.88	0.010	0.200	Pass
			1	1	6.92	0.010	0.200	Pass
			1	104	7.04	0.010	0.200	Pass
		256QAM	50	25	7.01	0.010	0.200	Pass
			1	1	6.93	0.010	0.200	Pass
			1	104	7.1	0.011	0.200	Pass
	MCH	PI/2 BPSK	50	25	18.05	0.131	0.200	Pass
			1	1	14.11	0.053	0.200	Pass
			1	104	13.82	0.049	0.200	Pass
		QPSK	50	25	18.06	0.131	0.200	Pass
			1	1	14.12	0.053	0.200	Pass
			1	104	13.83	0.050	0.200	Pass
		16QAM	50	25	17.09	0.105	0.200	Pass
			1	1	14.07	0.052	0.200	Pass
			1	104	13.85	0.050	0.200	Pass
		64QAM	50	25	15.55	0.074	0.200	Pass
			1	1	14.15	0.053	0.200	Pass
			1	104	13.88	0.050	0.200	Pass
		256QAM	50	25	13.56	0.047	0.200	Pass
			1	1	13.65	0.048	0.200	Pass
			1	104	13.38	0.045	0.200	Pass
	HCH	PI/2 BPSK	50	25	7.23	0.011	0.200	Pass
			1	1	7.45	0.011	0.200	Pass
			1	104	7.11	0.011	0.200	Pass
		QPSK	50	25	7.28	0.011	0.200	Pass

			1	1	7.49	0.012	0.200	Pass
			1	104	7.09	0.010	0.200	Pass
		16QAM	50	25	6.79	0.010	0.200	Pass
			1	1	7.02	0.010	0.200	Pass
			1	104	6.61	0.009	0.200	Pass
		64QAM	50	25	6.77	0.010	0.200	Pass
			1	1	7.02	0.010	0.200	Pass
			1	104	6.57	0.009	0.200	Pass
		256QAM	50	25	6.84	0.010	0.200	Pass
			1	1	6.97	0.010	0.200	Pass
			1	104	6.62	0.009	0.200	Pass

Test BW	Test Channel	Test Mode	UL RB Number	UL RB Position	Conducted Output AV Power(dBm)	EIRP (W)	Limit (W)	Verdict
NR Band n77(3550-3700MHz)								
20	LCH	PI/2 BPSK	25	12	18.02	0.130	0.200	Pass
			1	1	18.05	0.131	0.200	Pass
			1	49	17.99	0.129	0.200	Pass
		QPSK	25	12	18	0.129	0.200	Pass
			1	1	17.93	0.127	0.200	Pass
			1	49	17.91	0.127	0.200	Pass
		16QAM	25	12	17.06	0.104	0.200	Pass
			1	1	17.13	0.106	0.200	Pass
			1	49	17.03	0.104	0.200	Pass
		64QAM	25	12	15.42	0.071	0.200	Pass
			1	1	15.36	0.070	0.200	Pass
			1	49	15.32	0.070	0.200	Pass
		256QAM	25	12	13.4	0.045	0.200	Pass
			1	1	13.42	0.045	0.200	Pass
			1	49	13.33	0.044	0.200	Pass
	MCH	PI/2 BPSK	25	12	18.08	0.132	0.200	Pass
			1	1	18.06	0.131	0.200	Pass
			1	49	17.94	0.128	0.200	Pass
		QPSK	25	12	18.09	0.132	0.200	Pass
			1	1	18.06	0.131	0.200	Pass
			1	49	17.95	0.128	0.200	Pass
		16QAM	25	12	17.03	0.104	0.200	Pass
			1	1	17.23	0.108	0.200	Pass
			1	49	17.11	0.105	0.200	Pass
		64QAM	25	12	15.44	0.072	0.200	Pass
			1	1	15.49	0.073	0.200	Pass
			1	49	15.37	0.071	0.200	Pass
		256QAM	25	12	13.43	0.045	0.200	Pass
			1	1	13.52	0.046	0.200	Pass
			1	49	13.38	0.045	0.200	Pass
	HCH	PI/2 BPSK	25	12	17.87	0.126	0.200	Pass
			1	1	17.87	0.126	0.200	Pass
			1	49	17.81	0.124	0.200	Pass
		QPSK	25	12	17.87	0.126	0.200	Pass
			1	1	17.87	0.126	0.200	Pass
			1	49	17.84	0.125	0.200	Pass
		16QAM	25	12	16.94	0.101	0.200	Pass
			1	1	17	0.103	0.200	Pass

30	LCH	64QAM	1	49	16.97	0.102	0.200	Pass
			25	12	15.33	0.070	0.200	Pass
			1	1	15.3	0.070	0.200	Pass
		256QAM	1	49	15.27	0.069	0.200	Pass
			25	12	13.27	0.044	0.200	Pass
			1	1	13.3	0.044	0.200	Pass
		PI/2 BPSK	1	49	13.25	0.043	0.200	Pass
			25	12	17.96	0.128	0.200	Pass
			1	1	17.91	0.127	0.200	Pass
		QPSK	1	76	17.83	0.124	0.200	Pass
			36	18	17.84	0.125	0.200	Pass
			1	1	17.91	0.127	0.200	Pass
		16QAM	1	76	17.84	0.125	0.200	Pass
			36	18	16.87	0.100	0.200	Pass
			1	1	16.92	0.101	0.200	Pass
		64QAM	1	76	16.87	0.100	0.200	Pass
			36	18	15.28	0.069	0.200	Pass
			1	1	15.37	0.071	0.200	Pass
		256QAM	1	76	15.34	0.070	0.200	Pass
			36	18	13.3	0.044	0.200	Pass
			1	1	13.35	0.044	0.200	Pass
30	MCH	PI/2 BPSK	1	76	13.3	0.044	0.200	Pass
			36	18	18.12	0.133	0.200	Pass
			1	1	18.13	0.133	0.200	Pass
		QPSK	1	76	17.99	0.129	0.200	Pass
			36	18	18.04	0.131	0.200	Pass
			1	1	18.09	0.132	0.200	Pass
		16QAM	1	76	17.85	0.125	0.200	Pass
			36	18	17.04	0.104	0.200	Pass
			1	1	17.19	0.107	0.200	Pass
		64QAM	1	76	16.94	0.101	0.200	Pass
			36	18	15.48	0.072	0.200	Pass
			1	1	15.64	0.075	0.200	Pass
		256QAM	1	76	15.34	0.070	0.200	Pass
			36	18	13.5	0.046	0.200	Pass
			1	1	13.56	0.047	0.200	Pass
		PI/2 BPSK	1	76	13.31	0.044	0.200	Pass
			36	18	17.92	0.127	0.200	Pass
			1	1	17.87	0.126	0.200	Pass
30	HCH	QPSK	1	76	17.86	0.125	0.200	Pass
			36	18	17.83	0.124	0.200	Pass
			1	1	17.85	0.125	0.200	Pass
		PI/2 BPSK	1	76	17.85	0.125	0.200	Pass
			36	18	17.92	0.127	0.200	Pass

		16QAM	36	18	16.79	0.098	0.200	Pass
			1	1	16.91	0.101	0.200	Pass
			1	76	16.88	0.100	0.200	Pass
		64QAM	36	18	15.33	0.070	0.200	Pass
			1	1	15.33	0.070	0.200	Pass
			1	76	15.28	0.069	0.200	Pass
		256QAM	36	18	13.21	0.043	0.200	Pass
			1	1	13.26	0.043	0.200	Pass
			1	76	13.28	0.044	0.200	Pass
40	LCH	PI/2 BPSK	50	25	18.09	0.132	0.200	Pass
			1	1	18.2	0.136	0.200	Pass
			1	104	17.97	0.129	0.200	Pass
		QPSK	50	25	17.96	0.128	0.200	Pass
			1	1	18.17	0.135	0.200	Pass
			1	104	17.95	0.128	0.200	Pass
		16QAM	50	25	16.99	0.103	0.200	Pass
			1	1	17.32	0.111	0.200	Pass
			1	104	17.24	0.109	0.200	Pass
		64QAM	50	25	15.42	0.071	0.200	Pass
			1	1	15.63	0.075	0.200	Pass
			1	104	15.39	0.071	0.200	Pass
		256QAM	50	25	13.47	0.046	0.200	Pass
			1	1	13.62	0.047	0.200	Pass
			1	104	13.45	0.045	0.200	Pass
	MCH	PI/2 BPSK	50	25	18.12	0.133	0.200	Pass
			1	1	18.45	0.144	0.200	Pass
			1	104	17.87	0.126	0.200	Pass
		QPSK	50	25	18.04	0.131	0.200	Pass
			1	1	18.24	0.137	0.200	Pass
			1	104	17.9	0.126	0.200	Pass
		16QAM	50	25	17.07	0.104	0.200	Pass
			1	1	17.41	0.113	0.200	Pass
			1	104	17.03	0.104	0.200	Pass
		64QAM	50	25	15.48	0.072	0.200	Pass
			1	1	15.78	0.078	0.200	Pass
			1	104	15.37	0.071	0.200	Pass
		256QAM	50	25	13.5	0.046	0.200	Pass
			1	1	13.74	0.049	0.200	Pass
			1	104	13.48	0.046	0.200	Pass
	HCH	PI/2 BPSK	50	25	17.83	0.124	0.200	Pass
			1	1	17.95	0.128	0.200	Pass
			1	104	17.86	0.125	0.200	Pass
		QPSK	50	25	17.78	0.123	0.200	Pass

			1	1	17.93	0.127	0.200	Pass
			1	104	17.84	0.125	0.200	Pass
			50	25	16.77	0.097	0.200	Pass
		16QAM	1	1	17.1	0.105	0.200	Pass
			1	104	16.99	0.103	0.200	Pass
			50	25	15.16	0.067	0.200	Pass
		64QAM	1	1	15.41	0.071	0.200	Pass
			1	104	15.27	0.069	0.200	Pass
			50	25	13.19	0.043	0.200	Pass
		256QAM	1	1	13.4	0.045	0.200	Pass
			1	104	13.28	0.044	0.200	Pass
			81	40	17.7	0.121	0.200	Pass
60	LCH	PI/2 BPSK	1	1	17.85	0.125	0.200	Pass
			1	160	17.54	0.116	0.200	Pass
			81	40	17.68	0.120	0.200	Pass
		QPSK	1	1	17.85	0.125	0.200	Pass
			1	160	17.52	0.116	0.200	Pass
			81	40	16.74	0.097	0.200	Pass
		16QAM	1	1	16.86	0.100	0.200	Pass
			1	160	16.55	0.093	0.200	Pass
			81	40	15.12	0.067	0.200	Pass
		64QAM	1	1	15.21	0.068	0.200	Pass
			1	160	14.96	0.064	0.200	Pass
			81	40	13.12	0.042	0.200	Pass
		256QAM	1	1	13.26	0.043	0.200	Pass
			1	160	12.98	0.041	0.200	Pass
			81	40	17.84	0.125	0.200	Pass
	MCH	PI/2 BPSK	1	1	17.97	0.129	0.200	Pass
			1	160	17.61	0.118	0.200	Pass
			81	40	17.74	0.122	0.200	Pass
		QPSK	1	1	17.97	0.129	0.200	Pass
			1	160	17.58	0.117	0.200	Pass
			81	40	16.73	0.097	0.200	Pass
		16QAM	1	1	16.99	0.103	0.200	Pass
			1	160	16.6	0.094	0.200	Pass
			81	40	15.21	0.068	0.200	Pass
		64QAM	1	1	15.41	0.071	0.200	Pass
			1	160	14.97	0.064	0.200	Pass
			81	40	13.15	0.042	0.200	Pass
		256QAM	1	1	13.41	0.045	0.200	Pass
			1	160	12.97	0.041	0.200	Pass
			81	40	17.57	0.117	0.200	Pass
	HCH	PI/2 BPSK	1	1	17.55	0.117	0.200	Pass

			1	160	17.44	0.114	0.200	Pass
		QPSK	81	40	17.56	0.117	0.200	Pass
			1	1	17.64	0.119	0.200	Pass
			1	160	17.45	0.114	0.200	Pass
		16QAM	81	40	16.54	0.092	0.200	Pass
			1	1	16.59	0.094	0.200	Pass
			1	160	16.54	0.092	0.200	Pass
		64QAM	81	40	15.02	0.065	0.200	Pass
			1	1	15.02	0.065	0.200	Pass
			1	160	14.91	0.064	0.200	Pass
		256QAM	81	40	12.95	0.040	0.200	Pass
			1	1	12.93	0.040	0.200	Pass
			1	160	12.83	0.039	0.200	Pass
80	LCH	PI/2 BPSK	108	54	17.68	0.120	0.200	Pass
			1	1	17.66	0.120	0.200	Pass
			1	215	17.39	0.112	0.200	Pass
		QPSK	108	54	17.52	0.116	0.200	Pass
			1	1	17.68	0.120	0.200	Pass
			1	215	17.37	0.112	0.200	Pass
		16QAM	108	54	16.59	0.094	0.200	Pass
			1	1	16.77	0.097	0.200	Pass
			1	215	16.5	0.092	0.200	Pass
		64QAM	108	54	15.02	0.065	0.200	Pass
			1	1	15.1	0.066	0.200	Pass
			1	215	14.84	0.063	0.200	Pass
		256QAM	108	54	13	0.041	0.200	Pass
			1	1	13.14	0.042	0.200	Pass
			1	215	12.86	0.040	0.200	Pass
	MCH	PI/2 BPSK	108	54	17.83	0.124	0.200	Pass
			1	1	17.88	0.126	0.200	Pass
			1	215	17.35	0.111	0.200	Pass
		QPSK	108	54	17.66	0.120	0.200	Pass
			1	1	17.78	0.123	0.200	Pass
			1	215	17.37	0.112	0.200	Pass
		16QAM	108	54	16.72	0.096	0.200	Pass
			1	1	16.83	0.099	0.200	Pass
			1	215	16.4	0.090	0.200	Pass
		64QAM	108	54	15.08	0.066	0.200	Pass
			1	1	15.21	0.068	0.200	Pass
			1	215	14.76	0.061	0.200	Pass
		256QAM	108	54	13.06	0.041	0.200	Pass
			1	1	13.23	0.043	0.200	Pass
			1	215	12.8	0.039	0.200	Pass

	HCH	PI/2 BPSK	108	54	17.47	0.115	0.200	Pass
			1	1	17.53	0.116	0.200	Pass
			1	215	17.33	0.111	0.200	Pass
		QPSK	108	54	17.34	0.111	0.200	Pass
			1	1	17.52	0.116	0.200	Pass
			1	215	17.33	0.111	0.200	Pass
		16QAM	108	54	16.45	0.091	0.200	Pass
			1	1	16.59	0.094	0.200	Pass
			1	215	16.42	0.090	0.200	Pass
		64QAM	108	54	14.81	0.062	0.200	Pass
			1	1	14.94	0.064	0.200	Pass
			1	215	14.8	0.062	0.200	Pass
		256QAM	108	54	12.79	0.039	0.200	Pass
			1	1	12.89	0.040	0.200	Pass
			1	215	12.78	0.039	0.200	Pass
100	LCH	PI/2 BPSK	135	67	17.81	0.124	0.200	Pass
			1	1	17.74	0.122	0.200	Pass
			1	271	17.36	0.112	0.200	Pass
		QPSK	135	67	17.7	0.121	0.200	Pass
			1	1	17.69	0.121	0.200	Pass
			1	271	17.4	0.113	0.200	Pass
		16QAM	135	67	16.74	0.097	0.200	Pass
			1	1	16.84	0.099	0.200	Pass
			1	271	16.51	0.092	0.200	Pass
		64QAM	135	67	15.21	0.068	0.200	Pass
			1	1	15.29	0.069	0.200	Pass
			1	271	14.85	0.063	0.200	Pass
		256QAM	135	67	13.11	0.042	0.200	Pass
			1	1	13.18	0.043	0.200	Pass
			1	271	12.88	0.040	0.200	Pass
	MCH	PI/2 BPSK	135	67	17.75	0.122	0.200	Pass
			1	1	17.75	0.122	0.200	Pass
			1	271	17.46	0.114	0.200	Pass
		QPSK	135	67	17.68	0.120	0.200	Pass
			1	1	17.8	0.124	0.200	Pass
			1	271	17.37	0.112	0.200	Pass
		16QAM	135	67	16.73	0.097	0.200	Pass
			1	1	16.92	0.101	0.200	Pass
			1	271	16.51	0.092	0.200	Pass
		64QAM	135	67	15.11	0.067	0.200	Pass
			1	1	15.25	0.069	0.200	Pass
			1	271	14.82	0.062	0.200	Pass
		256QAM	135	67	13.1	0.042	0.200	Pass

			1	1	13.27	0.044	0.200	Pass
			1	271	12.82	0.039	0.200	Pass
	HCH	PI/2 BPSK	135	67	17.63	0.119	0.200	Pass
			1	1	17.79	0.123	0.200	Pass
			1	271	17.6	0.118	0.200	Pass
		QPSK	135	67	17.56	0.117	0.200	Pass
			1	1	17.8	0.124	0.200	Pass
			1	271	17.6	0.118	0.200	Pass
		16QAM	135	67	16.56	0.093	0.200	Pass
			1	1	16.95	0.102	0.200	Pass
			1	271	16.77	0.097	0.200	Pass
		64QAM	135	67	15.1	0.066	0.200	Pass
			1	1	15.26	0.069	0.200	Pass
			1	271	15.04	0.065	0.200	Pass
		256QAM	135	67	12.9	0.040	0.200	Pass
			1	1	13.28	0.044	0.200	Pass
			1	271	13.04	0.041	0.200	Pass

Test BW	Test Channel	Test Mode	UL RB Number	UL RB Position	Conducted Output AV Power(dBm)	EIRP (W)	Limit (W)	Verdict
NR Band n78(3550-3700MHz)								
20	LCH	PI/2 BPSK	25	12	18.01	0.130	0.200	Pass
			1	1	18.06	0.131	0.200	Pass
			1	49	18.07	0.132	0.200	Pass
		QPSK	25	12	18.05	0.131	0.200	Pass
			1	1	18.08	0.132	0.200	Pass
			1	49	18.07	0.132	0.200	Pass
		16QAM	25	12	17.04	0.104	0.200	Pass
			1	1	17.2	0.108	0.200	Pass
			1	49	17.17	0.107	0.200	Pass
		64QAM	25	12	15.45	0.072	0.200	Pass
			1	1	15.38	0.071	0.200	Pass
			1	49	15.29	0.069	0.200	Pass
		256QAM	25	12	13.41	0.045	0.200	Pass
			1	1	13.36	0.044	0.200	Pass
			1	49	13.29	0.044	0.200	Pass
	MCH	PI/2 BPSK	25	12	18.15	0.134	0.200	Pass
			1	1	18.06	0.131	0.200	Pass
			1	49	17.98	0.129	0.200	Pass
		QPSK	25	12	18.01	0.130	0.200	Pass
			1	1	18.12	0.133	0.200	Pass
			1	49	18.1	0.132	0.200	Pass
		16QAM	25	12	17.08	0.105	0.200	Pass
			1	1	17.23	0.108	0.200	Pass
			1	49	17.11	0.105	0.200	Pass
		64QAM	25	12	15.42	0.071	0.200	Pass
			1	1	15.48	0.072	0.200	Pass
			1	49	15.37	0.071	0.200	Pass
		256QAM	25	12	13.37	0.045	0.200	Pass
			1	1	13.52	0.046	0.200	Pass
			1	49	13.34	0.044	0.200	Pass
	HCH	PI/2 BPSK	25	12	17.87	0.126	0.200	Pass
			1	1	17.88	0.126	0.200	Pass
			1	49	17.85	0.125	0.200	Pass
		QPSK	25	12	17.92	0.127	0.200	Pass
			1	1	17.92	0.127	0.200	Pass
			1	49	17.84	0.125	0.200	Pass
		16QAM	25	12	16.97	0.102	0.200	Pass
			1	1	17.03	0.104	0.200	Pass

30	LCH	64QAM	1	49	17.03	0.104	0.200	Pass
			25	12	15.29	0.069	0.200	Pass
			1	1	15.3	0.070	0.200	Pass
		256QAM	1	49	15.19	0.068	0.200	Pass
			25	12	13.27	0.044	0.200	Pass
			1	1	13.29	0.044	0.200	Pass
			1	49	13.21	0.043	0.200	Pass
	MCH	PI/2 BPSK	36	18	17.96	0.128	0.200	Pass
			1	1	17.97	0.129	0.200	Pass
			1	76	17.81	0.124	0.200	Pass
		QPSK	36	18	17.98	0.129	0.200	Pass
			1	1	18.08	0.132	0.200	Pass
			1	76	17.81	0.124	0.200	Pass
		16QAM	36	18	17.05	0.104	0.200	Pass
			1	1	16.99	0.103	0.200	Pass
			1	76	16.91	0.101	0.200	Pass
		64QAM	36	18	15.34	0.070	0.200	Pass
			1	1	15.36	0.070	0.200	Pass
			1	76	15.16	0.067	0.200	Pass
		256QAM	36	18	13.3	0.044	0.200	Pass
			1	1	13.3	0.044	0.200	Pass
			1	76	13.24	0.043	0.200	Pass
30	MCH	PI/2 BPSK	36	18	18.14	0.134	0.200	Pass
			1	1	18.16	0.134	0.200	Pass
			1	76	17.98	0.129	0.200	Pass
		QPSK	36	18	18.02	0.130	0.200	Pass
			1	1	18.15	0.134	0.200	Pass
			1	76	18.01	0.130	0.200	Pass
		16QAM	36	18	16.97	0.102	0.200	Pass
			1	1	17.21	0.108	0.200	Pass
			1	76	16.95	0.102	0.200	Pass
		64QAM	36	18	15.45	0.072	0.200	Pass
			1	1	15.58	0.074	0.200	Pass
			1	76	15.23	0.068	0.200	Pass
		256QAM	36	18	13.45	0.045	0.200	Pass
			1	1	13.55	0.046	0.200	Pass
			1	76	13.26	0.043	0.200	Pass
	HCH	PI/2 BPSK	36	18	17.93	0.127	0.200	Pass
			1	1	17.93	0.127	0.200	Pass
			1	76	17.88	0.126	0.200	Pass
		QPSK	36	18	17.85	0.125	0.200	Pass
			1	1	17.9	0.126	0.200	Pass
			1	76	17.88	0.126	0.200	Pass

40	LCH	16QAM	36	18	16.83	0.099	0.200	Pass
			1	1	16.96	0.102	0.200	Pass
			1	76	16.93	0.101	0.200	Pass
		64QAM	36	18	15.31	0.070	0.200	Pass
			1	1	15.35	0.070	0.200	Pass
			1	76	15.23	0.068	0.200	Pass
		256QAM	36	18	13.32	0.044	0.200	Pass
			1	1	13.29	0.044	0.200	Pass
			1	76	13.19	0.043	0.200	Pass
	MCH	PI/2 BPSK	50	25	18.04	0.131	0.200	Pass
			1	1	18.18	0.135	0.200	Pass
			1	104	18.01	0.130	0.200	Pass
		QPSK	50	25	17.98	0.129	0.200	Pass
			1	1	18.19	0.135	0.200	Pass
			1	104	17.98	0.129	0.200	Pass
		16QAM	50	25	16.98	0.102	0.200	Pass
			1	1	17.23	0.108	0.200	Pass
			1	104	17.05	0.104	0.200	Pass
		64QAM	50	25	15.39	0.071	0.200	Pass
			1	1	15.58	0.074	0.200	Pass
			1	104	15.54	0.073	0.200	Pass
		256QAM	50	25	13.42	0.045	0.200	Pass
			1	1	13.57	0.047	0.200	Pass
			1	104	13.41	0.045	0.200	Pass
40	HCH	PI/2 BPSK	50	25	18.13	0.133	0.200	Pass
			1	1	18.29	0.138	0.200	Pass
			1	104	17.98	0.129	0.200	Pass
		QPSK	50	25	18.08	0.132	0.200	Pass
			1	1	18.32	0.139	0.200	Pass
			1	104	17.95	0.128	0.200	Pass
		16QAM	50	25	17.09	0.105	0.200	Pass
			1	1	17.38	0.112	0.200	Pass
			1	104	17	0.103	0.200	Pass
		64QAM	50	25	15.42	0.071	0.200	Pass
			1	1	15.72	0.077	0.200	Pass
			1	104	15.38	0.071	0.200	Pass
		256QAM	50	25	13.47	0.046	0.200	Pass
			1	1	13.74	0.049	0.200	Pass
			1	104	13.34	0.044	0.200	Pass
	HCH	PI/2 BPSK	50	25	17.79	0.123	0.200	Pass
			1	1	17.94	0.128	0.200	Pass
			1	104	17.89	0.126	0.200	Pass
		QPSK	50	25	17.77	0.123	0.200	Pass

			1	1	17.99	0.129	0.200	Pass
			1	104	17.91	0.127	0.200	Pass
			50	25	16.76	0.097	0.200	Pass
		16QAM	1	1	17.11	0.105	0.200	Pass
			1	104	17.04	0.104	0.200	Pass
			50	25	15.09	0.066	0.200	Pass
		64QAM	1	1	15.35	0.070	0.200	Pass
			1	104	15.4	0.071	0.200	Pass
			50	25	13.16	0.042	0.200	Pass
		256QAM	1	1	13.35	0.044	0.200	Pass
			1	104	13.31	0.044	0.200	Pass
			81	40	17.8	0.124	0.200	Pass
60	LCH	PI/2 BPSK	1	1	17.78	0.123	0.200	Pass
			1	160	17.66	0.120	0.200	Pass
			81	40	17.75	0.122	0.200	Pass
		QPSK	1	1	17.77	0.123	0.200	Pass
			1	160	17.69	0.121	0.200	Pass
			81	40	16.83	0.099	0.200	Pass
		16QAM	1	1	16.98	0.102	0.200	Pass
			1	160	16.86	0.100	0.200	Pass
			81	40	15.13	0.067	0.200	Pass
		64QAM	1	1	15.16	0.067	0.200	Pass
			1	160	15.01	0.065	0.200	Pass
			81	40	13.11	0.042	0.200	Pass
		256QAM	1	1	13.14	0.042	0.200	Pass
			1	160	13	0.041	0.200	Pass
			81	40	17.91	0.127	0.200	Pass
	MCH	PI/2 BPSK	1	1	17.92	0.127	0.200	Pass
			1	160	17.69	0.121	0.200	Pass
			81	40	17.88	0.126	0.200	Pass
		QPSK	1	1	17.98	0.129	0.200	Pass
			1	160	17.7	0.121	0.200	Pass
			81	40	16.93	0.101	0.200	Pass
		16QAM	1	1	17.02	0.103	0.200	Pass
			1	160	16.86	0.100	0.200	Pass
			81	40	15.21	0.068	0.200	Pass
		64QAM	1	1	15.38	0.071	0.200	Pass
			1	160	15.06	0.066	0.200	Pass
			81	40	13.27	0.044	0.200	Pass
		256QAM	1	1	13.35	0.044	0.200	Pass
			1	160	13.03	0.041	0.200	Pass
			81	40	17.58	0.117	0.200	Pass
	HCH	PI/2 BPSK	1	1	17.47	0.115	0.200	Pass

			1	160	17.49	0.115	0.200	Pass
		QPSK	81	40	17.6	0.118	0.200	Pass
			1	1	17.58	0.117	0.200	Pass
			1	160	17.5	0.115	0.200	Pass
		16QAM	81	40	16.63	0.094	0.200	Pass
			1	1	16.6	0.094	0.200	Pass
			1	160	16.59	0.094	0.200	Pass
		64QAM	81	40	14.99	0.065	0.200	Pass
			1	1	14.97	0.064	0.200	Pass
			1	160	15.02	0.065	0.200	Pass
		256QAM	81	40	12.95	0.040	0.200	Pass
			1	1	12.86	0.040	0.200	Pass
			1	160	12.89	0.040	0.200	Pass
80	LCH	PI/2 BPSK	108	54	17.72	0.121	0.200	Pass
			1	1	17.69	0.121	0.200	Pass
			1	215	17.35	0.111	0.200	Pass
		QPSK	108	54	17.68	0.120	0.200	Pass
			1	1	17.84	0.125	0.200	Pass
			1	215	17.57	0.117	0.200	Pass
		16QAM	108	54	16.72	0.096	0.200	Pass
			1	1	16.93	0.101	0.200	Pass
			1	215	16.55	0.093	0.200	Pass
		64QAM	108	54	15.08	0.066	0.200	Pass
			1	1	15.27	0.069	0.200	Pass
			1	215	14.73	0.061	0.200	Pass
		256QAM	108	54	12.99	0.041	0.200	Pass
			1	1	13.26	0.043	0.200	Pass
			1	215	12.75	0.039	0.200	Pass
	MCH	PI/2 BPSK	108	54	17.73	0.122	0.200	Pass
			1	1	17.88	0.126	0.200	Pass
			1	215	17.48	0.115	0.200	Pass
		QPSK	108	54	17.79	0.123	0.200	Pass
			1	1	17.95	0.128	0.200	Pass
			1	215	17.43	0.114	0.200	Pass
		16QAM	108	54	16.91	0.101	0.200	Pass
			1	1	17.08	0.105	0.200	Pass
			1	215	16.6	0.094	0.200	Pass
		64QAM	108	54	15.1	0.066	0.200	Pass
			1	1	15.21	0.068	0.200	Pass
			1	215	14.8	0.062	0.200	Pass
		256QAM	108	54	13.08	0.042	0.200	Pass
			1	1	13.22	0.043	0.200	Pass
			1	215	12.8	0.039	0.200	Pass

	HCH	PI/2 BPSK	108	54	17.4	0.113	0.200	Pass
			1	1	17.57	0.117	0.200	Pass
			1	215	17.42	0.113	0.200	Pass
		QPSK	108	54	17.45	0.114	0.200	Pass
			1	1	17.55	0.117	0.200	Pass
			1	215	17.49	0.115	0.200	Pass
		16QAM	108	54	16.41	0.090	0.200	Pass
			1	1	16.72	0.096	0.200	Pass
			1	215	16.51	0.092	0.200	Pass
		64QAM	108	54	14.88	0.063	0.200	Pass
			1	1	15.11	0.067	0.200	Pass
			1	215	14.81	0.062	0.200	Pass
		256QAM	108	54	12.87	0.040	0.200	Pass
			1	1	12.99	0.041	0.200	Pass
			1	215	12.85	0.040	0.200	Pass
100	LCH	PI/2 BPSK	135	67	17.79	0.123	0.200	Pass
			1	1	17.78	0.123	0.200	Pass
			1	271	17.44	0.114	0.200	Pass
		QPSK	135	67	17.75	0.122	0.200	Pass
			1	1	17.76	0.122	0.200	Pass
			1	271	17.42	0.113	0.200	Pass
		16QAM	135	67	16.73	0.097	0.200	Pass
			1	1	16.83	0.099	0.200	Pass
			1	271	16.51	0.092	0.200	Pass
		64QAM	135	67	15.1	0.066	0.200	Pass
			1	1	15.28	0.069	0.200	Pass
			1	271	14.95	0.064	0.200	Pass
		256QAM	135	67	13.09	0.042	0.200	Pass
			1	1	13.2	0.043	0.200	Pass
			1	271	12.84	0.039	0.200	Pass
	MCH	PI/2 BPSK	135	67	17.83	0.124	0.200	Pass
			1	1	17.82	0.124	0.200	Pass
			1	271	17.57	0.117	0.200	Pass
		QPSK	135	67	17.79	0.123	0.200	Pass
			1	1	17.94	0.128	0.200	Pass
			1	271	17.6	0.118	0.200	Pass
		16QAM	135	67	16.81	0.098	0.200	Pass
			1	1	17.15	0.106	0.200	Pass
			1	271	16.62	0.094	0.200	Pass
		64QAM	135	67	15.07	0.066	0.200	Pass
			1	1	15.38	0.071	0.200	Pass
			1	271	14.88	0.063	0.200	Pass
		256QAM	135	67	13.1	0.042	0.200	Pass

			1	1	13.31	0.044	0.200	Pass
			1	271	12.94	0.040	0.200	Pass
	HCH	PI/2 BPSK	135	67	17.64	0.119	0.200	Pass
			1	1	17.82	0.124	0.200	Pass
			1	271	17.51	0.116	0.200	Pass
		QPSK	135	67	17.65	0.119	0.200	Pass
			1	1	17.85	0.125	0.200	Pass
			1	271	17.67	0.120	0.200	Pass
		16QAM	135	67	16.69	0.096	0.200	Pass
			1	1	16.97	0.102	0.200	Pass
			1	271	16.81	0.098	0.200	Pass
		64QAM	135	67	14.9	0.063	0.200	Pass
			1	1	15.24	0.069	0.200	Pass
			1	271	14.92	0.064	0.200	Pass
		256QAM	135	67	13.1	0.042	0.200	Pass
			1	1	13.22	0.043	0.200	Pass
			1	271	13.03	0.041	0.200	Pass

Test BW	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict
DC_2A_n77A(3550-3700MHz)												
5MHz(LTE)+ 20MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.59	12.65	15.16	0.047	0.200	Pass
			25	12	8	0	11.63	12.68	15.2	0.047	0.200	Pass
	MCH		25	12	8	0	11.44	12.75	15.15	0.046	0.200	Pass
	HCH		1	49	1	24	11.68	12.7	15.23	0.048	0.200	Pass
			25	12	8	0	11.54	12.66	15.15	0.047	0.200	Pass
	LCH	QPSK	1	1	1	0	11.81	12.52	15.19	0.048	0.200	Pass
			25	12	8	0	11.53	12.76	15.2	0.047	0.200	Pass
	MCH		25	12	8	0	11.58	12.67	15.17	0.047	0.200	Pass
	HCH		1	49	1	24	11.62	12.71	15.21	0.047	0.200	Pass
			25	12	8	0	11.6	12.74	15.22	0.047	0.200	Pass
	LCH	16QAM	1	1	1	0	11.57	12.88	15.28	0.048	0.200	Pass
			25	12	8	0	11.61	12.76	15.23	0.048	0.200	Pass
	MCH		25	12	8	0	11.65	12.62	15.17	0.047	0.200	Pass
	HCH		1	49	1	24	11.52	12.57	15.09	0.046	0.200	Pass
			25	12	8	0	11.62	12.79	15.25	0.048	0.200	Pass
	LCH	64QAM	1	1	1	0	11.53	12.86	15.26	0.047	0.200	Pass
			25	12	8	0	11.59	13.01	15.37	0.049	0.200	Pass
	MCH		25	12	8	0	11.34	12.99	15.25	0.047	0.200	Pass
	HCH		1	49	1	24	11.57	12.91	15.3	0.048	0.200	Pass
			25	12	8	0	11.43	12.94	15.26	0.047	0.200	Pass
	LCH	256QAM	1	1	1	0	10.43	12.93	14.87	0.041	0.200	Pass
			25	12	8	0	10.42	12.98	14.9	0.041	0.200	Pass
	MCH		25	12	8	0	10.44	12.95	14.88	0.041	0.200	Pass
	HCH		1	49	1	24	10.33	12.94	14.84	0.041	0.200	Pass
			25	12	8	0	10.27	12.85	14.76	0.040	0.200	Pass
20MHz(LTE) +100MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.15	12.68	14.99	0.044	0.200	Pass
			135	67	18	0	11.09	12.52	14.87	0.043	0.200	Pass
	MCH		135	67	18	0	11.02	12.54	14.86	0.043	0.200	Pass
	HCH		1	271	1	99	11.05	12.65	14.93	0.044	0.200	Pass
			135	67	18	0	11.12	12.57	14.92	0.044	0.200	Pass
	LCH	QPSK	1	1	1	0	11.36	12.41	14.93	0.045	0.200	Pass
			135	67	18	0	11.33	12.46	14.94	0.045	0.200	Pass
	MCH		135	67	18	0	11.3	12.41	14.9	0.044	0.200	Pass
	HCH		1	271	1	99	11.38	12.44	14.95	0.045	0.200	Pass
			135	67	18	0	11.4	12.41	14.94	0.045	0.200	Pass
	LCH	16QAM	1	1	1	0	11.44	12.42	14.97	0.045	0.200	Pass

			135	67	18	0	11.42	12.36	14.93	0.045	0.200	Pass
	MCH		135	67	18	0	11.48	12.39	14.97	0.045	0.200	Pass
	HCH		1	271	1	99	11.54	12.49	15.05	0.046	0.200	Pass
			135	67	18	0	11.37	12.51	14.99	0.045	0.200	Pass
	LCH	64QAM	1	1	1	0	11.12	12.69	14.99	0.044	0.200	Pass
			135	67	18	0	10.99	12.65	14.91	0.043	0.200	Pass
	MCH		135	67	18	0	11.15	12.4	14.83	0.043	0.200	Pass
	HCH		1	271	1	99	11.08	12.55	14.89	0.043	0.200	Pass
			135	67	18	0	11.1	12.51	14.87	0.043	0.200	Pass
	LCH	256QAM	1	1	1	0	10.43	12.65	14.69	0.040	0.200	Pass
			135	67	18	0	10.26	12.7	14.66	0.039	0.200	Pass
	MCH		135	67	18	0	10.32	12.58	14.61	0.039	0.200	Pass
	HCH		1	271	1	99	10.19	12.59	14.56	0.039	0.200	Pass
			135	67	18	0	10.23	12.62	14.6	0.039	0.200	Pass

Test BW	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict
DC_5A_n77A(3550-3700MHz)												
5MHz(LTE)+20MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.53	12.51	15.06	0.036	0.200	Pass
			25	12	8	0	11.47	12.6	15.08	0.036	0.200	Pass
	MCH		25	12	8	0	11.64	12.46	15.08	0.037	0.200	Pass
	HCH		1	49	1	24	11.69	12.68	15.22	0.038	0.200	Pass
			25	12	8	0	11.61	12.7	15.2	0.037	0.200	Pass
	LCH	QPSK	1	1	1	0	11.66	12.83	15.29	0.038	0.200	Pass
			25	12	8	0	11.58	12.77	15.23	0.037	0.200	Pass
	MCH		25	12	8	0	11.59	12.75	15.22	0.037	0.200	Pass
	HCH		1	49	1	24	11.69	12.9	15.35	0.038	0.200	Pass
			25	12	8	0	11.62	12.82	15.27	0.038	0.200	Pass
	LCH	16QAM	1	1	1	0	11.7	12.87	15.33	0.038	0.200	Pass
			25	12	8	0	11.63	12.73	15.23	0.037	0.200	Pass
	MCH		25	12	8	0	11.61	12.81	15.26	0.037	0.200	Pass
	HCH		1	49	1	24	11.77	12.75	15.3	0.038	0.200	Pass
			25	12	8	0	11.59	12.75	15.22	0.037	0.200	Pass
	LCH	64QAM	1	1	1	0	11.36	12.86	15.18	0.036	0.200	Pass
			25	12	8	0	11.28	12.76	15.09	0.035	0.200	Pass
	MCH		25	12	8	0	11.29	12.82	15.13	0.035	0.200	Pass
	HCH		1	49	1	24	11.31	12.83	15.15	0.036	0.200	Pass
			25	12	8	0	11.3	12.86	15.16	0.036	0.200	Pass
	LCH	256QAM	1	1	1	0	10.11	12.97	14.78	0.029	0.200	Pass
			25	12	8	0	9.99	12.93	14.71	0.028	0.200	Pass
	MCH		25	12	8	0	10.04	12.79	14.64	0.028	0.200	Pass
	HCH		1	49	1	24	10.02	12.96	14.74	0.029	0.200	Pass
			25	12	8	0	10.04	12.84	14.67	0.029	0.200	Pass
10MHz(LTE)+100MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.29	12.52	14.96	0.035	0.200	Pass
			135	67	12	0	11.31	12.58	15	0.035	0.200	Pass
	MCH		135	67	12	0	11.32	12.54	14.98	0.035	0.200	Pass
	HCH		1	271	1	49	11.44	12.52	15.02	0.036	0.200	Pass
			135	67	12	0	11.36	12.56	15.01	0.035	0.200	Pass
	LCH	QPSK	1	1	1	0	11.4	12.48	14.98	0.036	0.200	Pass
			135	67	12	0	11.52	12.42	15	0.036	0.200	Pass
	MCH		135	67	12	0	11.47	12.4	14.97	0.036	0.200	Pass
	HCH		1	271	1	49	11.58	12.46	15.05	0.037	0.200	Pass
			135	67	12	0	11.38	12.44	14.95	0.035	0.200	Pass
	LCH	16QAM	1	1	1	0	11.19	12.65	14.99	0.034	0.200	Pass

			135	67	12	0	11.13	12.59	14.93	0.034	0.200	Pass
	MCH		135	67	12	0	11.08	12.54	14.88	0.034	0.200	Pass
	HCH		1	271	1	49	11.12	12.61	14.94	0.034	0.200	Pass
			135	67	12	0	11.02	12.69	14.95	0.033	0.200	Pass
	LCH	64QAM	1	1	1	0	11.11	12.87	15.09	0.034	0.200	Pass
			135	67	12	0	11.01	12.78	14.99	0.034	0.200	Pass
	MCH		135	67	12	0	11.02	12.88	15.06	0.034	0.200	Pass
	HCH		1	271	1	49	11.04	12.71	14.97	0.034	0.200	Pass
			135	67	12	0	11.1	12.74	15.01	0.034	0.200	Pass
	LCH		256QAM	1	1	1	0	11.11	12.89	15.1	0.034	0.200
		135		67	12	0	11.12	12.79	15.05	0.034	0.200	Pass
	MCH	135		67	12	0	11.18	12.75	15.05	0.035	0.200	Pass
	HCH	1		271	1	49	11.08	12.83	15.05	0.034	0.200	Pass
		135		67	12	0	11.15	12.74	15.03	0.034	0.200	Pass

Test BW	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict
DC_12A_n77A(3550-3700MHz)												
5MHz(LTE)+ 20MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.55	12.71	15.18	0.034	0.200	Pass
			25	12	8	0	11.56	12.69	15.17	0.034	0.200	Pass
	MCH		25	12	8	0	11.57	12.67	15.17	0.034	0.200	Pass
	HCH		1	49	1	24	11.66	12.73	15.24	0.035	0.200	Pass
			25	12	8	0	11.43	12.8	15.18	0.033	0.200	Pass
	LCH	QPSK	1	1	1	0	11.57	12.77	15.22	0.034	0.200	Pass
			25	12	8	0	11.44	12.74	15.15	0.033	0.200	Pass
	MCH		25	12	8	0	11.49	12.76	15.18	0.034	0.200	Pass
	HCH		1	49	1	24	11.46	12.91	15.26	0.034	0.200	Pass
			25	12	8	0	11.53	12.82	15.23	0.034	0.200	Pass
	LCH	16QAM	1	1	1	0	11.73	12.64	15.22	0.035	0.200	Pass
			25	12	8	0	11.49	12.67	15.13	0.034	0.200	Pass
	MCH		25	12	8	0	11.56	12.69	15.17	0.034	0.200	Pass
	HCH		1	49	1	24	11.57	12.82	15.25	0.034	0.200	Pass
			25	12	8	0	11.45	12.73	15.15	0.034	0.200	Pass
	LCH	64QAM	1	1	1	0	11.54	13.06	15.38	0.034	0.200	Pass
			25	12	8	0	11.39	13.02	15.29	0.033	0.200	Pass
	MCH		25	12	8	0	11.35	13.05	15.29	0.033	0.200	Pass
	HCH		1	49	1	24	11.37	12.93	15.23	0.033	0.200	Pass
			25	12	8	0	11.28	12.95	15.21	0.033	0.200	Pass
	LCH	256QAM	1	1	1	0	10.77	13.07	15.08	0.030	0.200	Pass
			25	12	8	0	10.65	12.89	14.92	0.029	0.200	Pass
	MCH		25	12	8	0	10.74	12.88	14.95	0.029	0.200	Pass
	HCH		1	49	1	24	10.65	12.98	14.98	0.029	0.200	Pass
			25	12	8	0	10.58	12.96	14.94	0.029	0.200	Pass
10MHz(LTE) +100MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.32	12.64	15.04	0.033	0.200	Pass
			135	67	12	0	11.28	12.54	14.97	0.032	0.200	Pass
	MCH		135	67	12	0	11.33	12.67	15.06	0.033	0.200	Pass
	HCH		1	271	1	49	11.51	12.82	15.22	0.034	0.200	Pass
			135	67	12	0	11.31	12.87	15.17	0.033	0.200	Pass
	LCH	QPSK	1	1	1	0	11.13	12.95	15.14	0.032	0.200	Pass
			135	67	12	0	11.19	12.65	14.99	0.032	0.200	Pass
	MCH		135	67	12	0	11.1	12.8	15.04	0.031	0.200	Pass
	HCH		1	271	1	49	11.25	12.79	15.1	0.032	0.200	Pass
			135	67	12	0	11.14	12.59	14.94	0.031	0.200	Pass
	LCH	16QAM	1	1	1	0	11.22	12.72	15.04	0.032	0.200	Pass

			135	67	12	0	11.18	12.64	14.98	0.032	0.200	Pass
	MCH		135	67	12	0	11.02	12.7	14.95	0.031	0.200	Pass
	HCH		1	271	1	49	11.07	12.68	14.96	0.031	0.200	Pass
			135	67	12	0	11.04	12.47	14.82	0.031	0.200	Pass
	LCH	64QAM	1	1	1	0	10.82	12.7	14.87	0.030	0.200	Pass
			135	67	12	0	10.85	12.58	14.81	0.030	0.200	Pass
	MCH		135	67	12	0	10.84	12.91	15.01	0.030	0.200	Pass
	HCH		1	271	1	49	10.92	12.63	14.87	0.030	0.200	Pass
			135	67	12	0	10.98	12.78	14.98	0.031	0.200	Pass
	LCH		256QAM	1	1	1	0	10.29	12.99	14.86	0.027	0.200
		135		67	12	0	10.16	12.56	14.53	0.026	0.200	Pass
	MCH	135		67	12	0	9.91	12.81	14.61	0.025	0.200	Pass
	HCH	1		271	1	49	10.23	12.8	14.71	0.027	0.200	Pass
		135		67	12	0	10.2	12.7	14.64	0.026	0.200	Pass

Test BW	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict
DC_13A_n77A(3550-3700MHz)												
5MHz(LTE)+20MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.52	12.88	15.26	15.16	0.033	Pass
			25	12	8	0	11.7	12.96	15.39	15.33	0.034	Pass
	MCH		25	12	8	0	11.68	13.01	15.41	15.32	0.034	Pass
	HCH		1	49	1	24	11.49	12.83	15.22	15.13	0.033	Pass
			25	12	8	0	11.66	12.79	15.27	15.28	0.034	Pass
	LCH	QPSK	1	1	1	0	11.58	12.8	15.24	15.21	0.033	Pass
			25	12	8	0	11.66	12.74	15.24	15.27	0.034	Pass
	MCH		25	12	8	0	11.79	12.98	15.44	15.41	0.035	Pass
	HCH		1	49	1	24	11.49	12.88	15.25	15.14	0.033	Pass
			25	12	8	0	11.74	12.79	15.31	15.35	0.034	Pass
	LCH	16QAM	1	1	1	0	11.79	12.86	15.37	15.40	0.035	Pass
			25	12	8	0	11.56	12.92	15.3	15.20	0.033	Pass
	MCH		25	12	8	0	11.59	13.01	15.37	15.24	0.033	Pass
	HCH		1	49	1	24	11.55	12.98	15.33	15.20	0.033	Pass
			25	12	8	0	11.7	12.83	15.31	15.32	0.034	Pass
	LCH	64QAM	1	1	1	0	11.58	13.14	15.44	15.25	0.033	Pass
			25	12	8	0	11.38	12.96	15.25	15.05	0.032	Pass
	MCH		25	12	8	0	11.51	12.83	15.23	15.15	0.033	Pass
	HCH		1	49	1	24	11.35	12.95	15.23	15.02	0.032	Pass
			25	12	8	0	11.62	12.91	15.32	15.25	0.034	Pass
	LCH	256QAM	1	1	1	0	10.56	12.98	14.95	14.34	0.027	Pass
			25	12	8	0	10.69	12.79	14.88	14.42	0.028	Pass
	MCH		25	12	8	0	10.56	12.78	14.82	14.31	0.027	Pass
	HCH		1	49	1	24	10.62	13.03	15	14.40	0.028	Pass
			25	12	8	0	10.47	12.91	14.87	14.25	0.027	Pass
10MHz(LTE)+100MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.25	12.93	15.18	14.93	0.031	Pass
			135	67	12	0	11.19	12.92	15.15	14.88	0.031	Pass
	MCH		135	67	12	0	11.28	12.87	15.16	14.95	0.031	Pass
	HCH		1	271	1	49	11.17	12.81	15.08	14.85	0.031	Pass
			135	67	12	0	11.32	13.01	15.26	15.00	0.032	Pass
	LCH	QPSK	1	1	1	0	11.27	12.98	15.22	14.95	0.031	Pass
			135	67	12	0	11.31	12.95	15.22	14.99	0.032	Pass
	MCH		135	67	12	0	11.38	13.02	15.29	15.06	0.032	Pass
	HCH		1	271	1	49	11.28	12.97	15.22	14.96	0.031	Pass
			135	67	12	0	11.21	12.88	15.14	14.89	0.031	Pass
	LCH	16QAM	1	1	1	0	11.26	12.81	15.11	14.92	0.031	Pass

			135	67	12	0	11.17	12.84	15.1	14.85	0.031	Pass	
	MCH		135	67	12	0	11.09	12.92	15.11	14.79	0.030	Pass	
	HCH		1	271	1	49	11.21	12.95	15.18	14.90	0.031	Pass	
			135	67	12	0	11.12	13	15.17	14.83	0.030	Pass	
	LCH	64QAM	1	1	1	0	11.1	12.85	15.07	14.79	0.030	Pass	
			135	67	12	0	11.25	12.9	15.16	14.93	0.031	Pass	
	MCH		135	67	12	0	11.06	12.75	15	14.74	0.030	Pass	
	HCH		1	271	1	49	11.14	12.77	15.04	14.81	0.030	Pass	
			135	67	12	0	11.02	12.84	15.03	14.72	0.030	Pass	
	LCH		256QAM	1	1	1	0	10.14	12.93	14.77	13.97	0.025	Pass
		135		67	12	0	10.03	12.78	14.63	13.85	0.024	Pass	
		MCH		135	67	12	0	10.36	12.87	14.8	14.15	0.026	Pass
		HCH		1	271	1	49	10.42	12.98	14.9	14.22	0.026	Pass
				135	67	12	0	10.22	12.84	14.73	14.03	0.025	Pass

Test BW	Test Channel I	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict	
DC_48A_n5A(3550-3700MHz)													
5MHz(LTE)+ 5MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	19.73	18.16	22.03	0.172	0.200	Pass	
			12	6	8	0	19.74	18.21	22.05	0.174	0.200	Pass	
	MCH		12	6	8	0	19.82	18.09	22.05	0.171	0.200	Pass	
			HCH	1	23	1	24	19.73	17.63	21.82	0.157	0.200	Pass
	12			6	8	0	19.88	17.85	21.99	0.165	0.200	Pass	
	LCH		QPSK	1	1	1	0	19.83	17.99	22.02	0.168	0.200	Pass
		12		6	8	0	19.79	18.24	22.09	0.175	0.200	Pass	
	MCH	12		6	8	0	19.68	18.13	21.98	0.171	0.200	Pass	
		HCH		1	23	1	24	19.64	17.65	21.77	0.157	0.200	Pass
	12			6	8	0	19.88	17.62	21.91	0.158	0.200	Pass	
	LCH	16QAM		1	1	1	0	19.98	17.64	21.98	0.160	0.200	Pass
			12	6	8	0	19.84	18.18	22.1	0.174	0.200	Pass	
	MCH		12	6	8	0	19.83	18.16	22.09	0.173	0.200	Pass	
			HCH	1	23	1	24	19.76	17.83	21.91	0.163	0.200	Pass
	12			6	8	0	19.78	17.72	21.88	0.160	0.200	Pass	
	LCH		64QAM	1	1	1	0	19.66	17.57	21.75	0.155	0.200	Pass
		12		6	8	0	19.59	17.63	21.73	0.156	0.200	Pass	
	MCH	12		6	8	0	19.45	17.64	21.65	0.155	0.200	Pass	
		HCH		1	23	1	24	19.67	17.58	21.76	0.155	0.200	Pass
	12			6	8	0	19.83	17.67	21.89	0.159	0.200	Pass	
	LCH	256QAM		1	1	1	0	17.97	18.1	21.05	0.158	0.200	Pass
			12	6	8	0	18.02	17.63	20.84	0.145	0.200	Pass	
	MCH		12	6	8	0	17.83	17.79	20.82	0.148	0.200	Pass	
			HCH	1	23	1	24	18.04	17.82	20.94	0.150	0.200	Pass
	12			6	8	0	18.28	17.67	21	0.147	0.200	Pass	
	20MHz(LTE) +20MHz(NR)		LCH	PI/2 BPSK	1	1	1	0	19.66	17.83	21.85	0.162	0.200
		50			25	18	0	19.67	17.66	21.79	0.157	0.200	Pass
		MCH	50		25	18	0	19.78	17.61	21.84	0.157	0.200	Pass
			HCH		1	104	1	99	19.69	17.49	21.74	0.153	0.200
		50			25	18	0	19.81	17.53	21.83	0.155	0.200	Pass
LCH		QPSK	1		1	1	0	19.73	17.7	21.84	0.159	0.200	Pass
			50	25	18	0	19.66	17.38	21.68	0.150	0.200	Pass	
MCH			50	25	18	0	19.42	17.65	21.63	0.155	0.200	Pass	
			HCH	1	104	1	99	19.65	17.54	21.73	0.154	0.200	Pass
50				25	18	0	19.71	17.69	21.83	0.159	0.200	Pass	
LCH			16QAM	1	1	1	0	19.84	17.76	21.93	0.162	0.200	Pass

			50	25	18	0	19.76	17.54	21.8	0.155	0.200	Pass
	MCH		50	25	18	0	19.63	17.72	21.79	0.159	0.200	Pass
	HCH		1	104	1	99	19.75	17.61	21.82	0.157	0.200	Pass
			50	25	18	0	19.55	17.68	21.73	0.157	0.200	Pass
	LCH	64QAM	1	1	1	0	19.72	17.78	21.87	0.161	0.200	Pass
			50	25	18	0	19.75	17.92	21.94	0.165	0.200	Pass
	MCH		50	25	18	0	19.86	17.62	21.89	0.158	0.200	Pass
	HCH		1	104	1	99	19.65	17.49	21.71	0.153	0.200	Pass
			50	25	18	0	19.9	17.64	21.93	0.159	0.200	Pass
	LCH		256QAM	1	1	1	0	18.44	18.03	21.25	0.159	0.200
		50		25	18	0	18.38	17.97	21.19	0.157	0.200	Pass
	MCH	50		25	18	0	18.61	17.45	21.08	0.144	0.200	Pass
	HCH	1		104	1	99	18.49	17.64	21.1	0.148	0.200	Pass
		50		25	18	0	18.32	17.61	20.99	0.146	0.200	Pass

Test BW	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict
DC_48A_n66A(3550-3700MHz)												
5MHz(LTE)+ 5MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	18.08	18.01	21.06	0.198	0.200	Pass
			12	6	8	0	17.72	18.07	20.91	0.194	0.200	Pass
	MCH		12	6	8	0	17.85	17.99	20.93	0.194	0.200	Pass
	HCH		1	23	1	24	17.92	18.05	21	0.197	0.200	Pass
			12	6	8	0	17.82	18.1	20.97	0.197	0.200	Pass
	LCH	QPSK	1	1	1	0	17.87	18.11	21	0.198	0.200	Pass
			12	6	8	0	18.11	18.01	21.07	0.198	0.200	Pass
	MCH		12	6	8	0	18.02	18.03	21.04	0.198	0.200	Pass
	HCH		1	23	1	24	17.83	18.12	20.99	0.197	0.200	Pass
			12	6	8	0	17.95	18.07	21.02	0.198	0.200	Pass
	LCH	16QAM	1	1	1	0	17.88	18.08	20.99	0.197	0.200	Pass
			12	6	8	0	17.85	18.06	20.97	0.196	0.200	Pass
	MCH		12	6	8	0	17.79	18.13	20.97	0.197	0.200	Pass
	HCH		1	23	1	24	17.92	18.06	21	0.197	0.200	Pass
			12	6	8	0	17.84	17.81	20.84	0.188	0.200	Pass
	LCH	64QAM	1	1	1	0	16.29	18.15	20.33	0.179	0.200	Pass
			12	6	8	0	16.21	17.99	20.2	0.173	0.200	Pass
	MCH		12	6	8	0	16.45	17.87	20.23	0.172	0.200	Pass
	HCH		1	23	1	24	16.44	17.77	20.17	0.170	0.200	Pass
			12	6	8	0	16.34	18.03	20.28	0.176	0.200	Pass
	LCH	256QAM	1	1	1	0	13.86	18.3	19.63	0.164	0.200	Pass
			12	6	8	0	14.02	18.15	19.57	0.161	0.200	Pass
	MCH		12	6	8	0	13.96	18.12	19.53	0.159	0.200	Pass
	HCH		1	23	1	24	14.08	17.87	19.39	0.153	0.200	Pass
			12	6	8	0	14.21	17.76	19.35	0.150	0.200	Pass
20MHz(LTE) +30MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	18.2	17.79	21.01	0.193	0.200	Pass
			80	40	18	0	18.16	17.82	21	0.194	0.200	Pass
	MCH		80	40	18	0	18.25	17.65	20.97	0.190	0.200	Pass
	HCH		1	158	1	99	18.78	17.44	21.17	0.194	0.200	Pass
			80	40	18	0	18.56	17.68	21.15	0.196	0.200	Pass
	LCH	QPSK	1	1	1	0	18.41	17.85	21.16	0.199	0.200	Pass
			80	40	18	0	18	18.02	21.02	0.197	0.200	Pass
	MCH		80	40	18	0	18.25	17.87	21.07	0.197	0.200	Pass
	HCH		1	158	1	99	18.65	17.51	21.13	0.193	0.200	Pass
			80	40	18	0	18.43	17.74	21.11	0.196	0.200	Pass
	LCH	16QAM	1	1	1	0	17.6	17.79	20.71	0.184	0.200	Pass

			80	40	18	0	17.73	17.65	20.7	0.182	0.200	Pass
	MCH		80	40	18	0	17.68	17.81	20.76	0.186	0.200	Pass
	HCH		1	158	1	99	17.84	17.42	20.65	0.178	0.200	Pass
			80	40	18	0	17.88	17.56	20.73	0.182	0.200	Pass
	LCH	64QAM	1	1	1	0	16.21	18.01	20.21	0.174	0.200	Pass
	80		40	18	0	16.14	18.08	20.23	0.175	0.200	Pass	
	MCH		80	40	18	0	16.22	17.94	20.17	0.172	0.200	Pass
	HCH		1	158	1	99	16.07	17.6	19.91	0.161	0.200	Pass
			80	40	18	0	16.11	17.74	20.01	0.165	0.200	Pass
	LCH	256QAM	1	1	1	0	14.33	17.96	19.52	0.157	0.200	Pass
	80		40	18	0	14.22	18.1	19.59	0.160	0.200	Pass	
	MCH		80	40	18	0	14.38	17.88	19.48	0.155	0.200	Pass
	HCH		1	158	1	99	14.01	17.61	19.18	0.145	0.200	Pass
			80	40	18	0	13.89	17.91	19.36	0.153	0.200	Pass

Test BW	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	LTE UL RB No.	LTE UL RB Pos.	NR Conducted Output Power (dBm)	LTE Conducted Output Power (dBm)	Total Conducted Output Power (dBm)	EIRP (W)	Limit (W)	Verdict
DC_66A_n77A(3550-3700MHz)												
5MHz(LTE)+ 20MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.56	11.98	14.79	0.046	0.200	Pass
			25	12	8	0	11.53	11.88	14.72	0.046	0.200	Pass
	MCH		25	12	8	0	11.63	11.92	14.79	0.046	0.200	Pass
	HCH		1	49	1	24	11.52	11.96	14.76	0.046	0.200	Pass
			25	12	8	0	11.71	11.85	14.79	0.047	0.200	Pass
	LCH	QPSK	1	1	1	0	11.66	11.94	14.81	0.047	0.200	Pass
			25	12	8	0	11.7	11.92	14.82	0.047	0.200	Pass
	MCH		25	12	8	0	11.58	12.11	14.86	0.047	0.200	Pass
	HCH		1	49	1	24	11.55	12.02	14.8	0.046	0.200	Pass
			25	12	8	0	11.63	11.89	14.77	0.046	0.200	Pass
	LCH	16QAM	1	1	1	0	11.73	11.88	14.82	0.047	0.200	Pass
			25	12	8	0	11.68	11.85	14.78	0.046	0.200	Pass
	MCH		25	12	8	0	11.95	12.07	15.02	0.049	0.200	Pass
	HCH		1	49	1	24	11.92	12.02	14.98	0.049	0.200	Pass
			25	12	8	0	11.76	11.92	14.85	0.047	0.200	Pass
	LCH	64QAM	1	1	1	0	11.53	12.12	14.85	0.046	0.200	Pass
			25	12	8	0	11.35	12.09	14.75	0.045	0.200	Pass
	MCH		25	12	8	0	11.29	12.2	14.78	0.045	0.200	Pass
	HCH		1	49	1	24	11.33	12.06	14.72	0.045	0.200	Pass
			25	12	8	0	11.51	11.89	14.71	0.045	0.200	Pass
	LCH	256QAM	1	1	1	0	10.66	12.31	14.57	0.042	0.200	Pass
			25	12	8	0	10.51	12.14	14.41	0.040	0.200	Pass
	MCH		25	12	8	0	10.38	12.15	14.36	0.040	0.200	Pass
	HCH		1	49	1	24	10.45	12.32	14.5	0.041	0.200	Pass
			25	12	8	0	10.43	12.17	14.4	0.040	0.200	Pass
20MHz(LTE) +100MHz(NR)	LCH	PI/2 BPSK	1	1	1	0	11.21	11.58	14.41	0.042	0.200	Pass
			135	67	18	0	11.19	11.69	14.46	0.043	0.200	Pass
	MCH		135	67	18	0	11.17	11.51	14.35	0.042	0.200	Pass
	HCH		1	271	1	99	11.28	11.65	14.48	0.043	0.200	Pass
			135	67	18	0	11.31	11.52	14.43	0.043	0.200	Pass
	LCH	QPSK	1	1	1	0	11.44	11.69	14.58	0.044	0.200	Pass
			135	67	18	0	11.46	11.78	14.63	0.045	0.200	Pass
	MCH		135	67	18	0	11.56	11.69	14.64	0.045	0.200	Pass
	HCH		1	271	1	99	11.55	11.89	14.73	0.046	0.200	Pass
			135	67	18	0	11.41	11.76	14.6	0.044	0.200	Pass
	LCH	16QAM	1	1	1	0	11.54	11.63	14.6	0.045	0.200	Pass

			135	67	18	0	11.6	11.72	14.67	0.045	0.200	Pass
	MCH		135	67	18	0	11.45	11.58	14.53	0.044	0.200	Pass
	HCH		1	271	1	99	11.66	11.72	14.7	0.046	0.200	Pass
			135	67	18	0	11.28	11.77	14.54	0.044	0.200	Pass
	LCH	64QAM	1	1	1	0	10.95	12.84	15.01	0.046	0.200	Pass
			135	67	18	0	10.88	12.01	14.49	0.042	0.200	Pass
	MCH		135	67	18	0	11.01	11.81	14.44	0.042	0.200	Pass
	HCH		1	271	1	99	10.91	11.83	14.4	0.041	0.200	Pass
			135	67	18	0	11.08	11.79	14.46	0.042	0.200	Pass
	LCH	256QAM	1	1	1	0	10.21	11.9	14.15	0.038	0.200	Pass
			135	67	18	0	10.18	12.02	14.21	0.038	0.200	Pass
	MCH		135	67	18	0	10.39	11.82	14.17	0.039	0.200	Pass
	HCH		1	271	1	99	10.45	11.87	14.23	0.039	0.200	Pass
			135	67	18	0	10.25	11.85	14.13	0.038	0.200	Pass

A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document “Annex No.: Ti-CC26060557-502 Data Part 1.pdf”.

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict ^{Note2}
LTE Band 48	20 MHz	LCH	QPSK	RB1#0	8.16	13	Pass
				RB100#0	9.05	13	Pass
			16-QAM	RB1#0	9.05	13	Pass
				RB100#0	9.75	13	Pass
		MCH	QPSK	RB1#0	8.16	13	Pass
				RB100#0	9.09	13	Pass
			16-QAM	RB1#0	8.95	13	Pass
				RB100#0	9.8	13	Pass
		HCH	QPSK	RB1#0	8.16	13	Pass
				RB100#0	9.09	13	Pass
			16-QAM	RB1#0	9.09	13	Pass
				RB100#0	9.8	13	Pass

NR Mode Test Data

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Peak to Average Ratio (dB)	Limit (dB)	Verdict ^{Note2}
n48	20 MHz	LCH	PI2 BPSK	1	0	3.89	13	Pass
				50	0	3.98	13	Pass
			QPSK	1	0	5.62	13	Pass
				50	0	5.44	13	Pass
			16QAM	1	0	6	13	Pass
				50	0	6.23	13	Pass
			64QAM	1	0	6.42	13	Pass
				50	0	6.47	13	Pass
			256QAM	1	0	6.42	13	Pass
				50	0	6.75	13	Pass
		MCH	PI2 BPSK	1	0	4.31	13	Pass
				50	0	4.31	13	Pass
			QPSK	1	0	5.44	13	Pass
				50	0	5.86	13	Pass
			16QAM	1	0	6	13	Pass
				50	0	6.33	13	Pass
			64QAM	1	0	6.89	13	Pass
				50	0	6.52	13	Pass
			256QAM	1	0	6.42	13	Pass
				50	0	6.75	13	Pass
		HCH	PI2 BPSK	1	0	4.08	13	Pass
				50	0	4.22	13	Pass
			QPSK	1	0	5.81	13	Pass
				50	0	5.67	13	Pass
			16QAM	1	0	6.09	13	Pass
				50	0	6.33	13	Pass
			64QAM	1	0	6.75	13	Pass
				50	0	6.56	13	Pass
			256QAM	1	0	6.52	13	Pass
				50	0	6.75	13	Pass
n77 (3550-3700 MHz)	20 MHz	LCH	PI2 BPSK	1	0	4.03	13	Pass
				50	0	4.31	13	Pass
			QPSK	1	0	5.25	13	Pass
				50	0	5.67	13	Pass
			16QAM	1	0	6.52	13	Pass
				50	0	6.42	13	Pass
			64QAM	1	0	5.86	13	Pass
				50	0	6.52	13	Pass

			256QAM	1	0	6.56	13	Pass
				50	0	6.84	13	Pass
		MCH	PI2 BPSK	1	0	4.08	13	Pass
				50	0	4.31	13	Pass
			QPSK	1	0	5.3	13	Pass
				50	0	5.62	13	Pass
			16QAM	1	0	6.8	13	Pass
				50	0	6.37	13	Pass
			64QAM	1	0	5.86	13	Pass
				50	0	6.56	13	Pass
			256QAM	1	0	6.09	13	Pass
				50	0	6.84	13	Pass
		HCH	PI2 BPSK	1	0	3.98	13	Pass
				50	0	4.45	13	Pass
			QPSK	1	0	5.53	13	Pass
				50	0	5.72	13	Pass
			16QAM	1	0	6.28	13	Pass
				50	0	6.42	13	Pass
			64QAM	1	0	6.19	13	Pass
				50	0	6.56	13	Pass
			256QAM	1	0	6.09	13	Pass
				50	0	6.84	13	Pass
n78 (3550-3700 MHz)	20 MHz	LCH	PI2 BPSK	1	0	3.98	13	Pass
				50	0	4.31	13	Pass
			QPSK	1	0	5.34	13	Pass
				50	0	5.72	13	Pass
			16QAM	1	0	6.75	13	Pass
				50	0	6.23	13	Pass
			64QAM	1	0	5.91	13	Pass
				50	0	6.56	13	Pass
			256QAM	1	0	6.61	13	Pass
				50	0	6.84	13	Pass
		MCH	PI2 BPSK	1	0	4.12	13	Pass
				50	0	3.89	13	Pass
			QPSK	1	0	5.34	13	Pass
				50	0	5.44	13	Pass
			16QAM	1	0	6.33	13	Pass
				50	0	6.33	13	Pass
			64QAM	1	0	5.95	13	Pass
				50	0	6.47	13	Pass
			256QAM	1	0	6.09	13	Pass
				50	0	6.8	13	Pass
		HCH	PI2 BPSK	1	0	4.08	13	Pass

				50	0	4.22	13	Pass
			QPSK	1	0	5.34	13	Pass
				50	0	5.62	13	Pass
			16QAM	1	0	6.84	13	Pass
				50	0	6.42	13	Pass
			64QAM	1	0	5.86	13	Pass
				50	0	6.56	13	Pass
			256QAM	1	0	6.56	13	Pass
				50	0	6.84	13	Pass

A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.: Ti-CC26060557-502 Data Part 2.pdf”.

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
Band 48	5 MHz	LCH	QPSK	RB25#0	4.498	5.2	Pass
			16-QAM	RB25#0	4.501	5.137	Pass
		MCH	QPSK	RB25#0	4.499	5.091	Pass
			16-QAM	RB25#0	4.503	5.17	Pass
		HCH	QPSK	RB25#0	4.496	5.165	Pass
			16-QAM	RB25#0	4.51	5.116	Pass
	10 MHz	LCH	QPSK	RB50#0	8.974	10.011	Pass
			16-QAM	RB50#0	8.945	10.135	Pass
		MCH	QPSK	RB50#0	8.994	9.991	Pass
			16-QAM	RB50#0	8.958	10.038	Pass
		HCH	QPSK	RB50#0	8.948	9.953	Pass
			16-QAM	RB50#0	8.964	10.009	Pass
	15 MHz	LCH	QPSK	RB75#0	13.461	14.599	Pass
			16-QAM	RB75#0	13.493	14.416	Pass
		MCH	QPSK	RB75#0	13.506	14.463	Pass
			16-QAM	RB75#0	13.502	14.415	Pass
		HCH	QPSK	RB75#0	13.519	14.51	Pass
			16-QAM	RB75#0	13.482	14.473	Pass
	20 MHz	LCH	QPSK	RB100#0	17.924	19.336	Pass
			16-QAM	RB100#0	17.94	19.508	Pass
		MCH	QPSK	RB100#0	17.953	19.614	Pass
			16-QAM	RB100#0	17.894	19.524	Pass
		HCH	QPSK	RB100#0	17.978	19.411	Pass
			16-QAM	RB100#0	17.965	19.55	Pass

NR Mode Test Data

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Measured 99% Occupied Bandwidth (MHz)	Measured - 26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
n48 SCS=30kHz	20 MHz	LCH	QPSK	51	0	18.3	20.471	Pass
		MCH	QPSK	51	0	18.264	20.233	Pass
		HCH	QPSK	51	0	18.247	19.843	Pass
		LCH	16QAM	51	0	18.29	20.153	Pass
		MCH	16QAM	51	0	18.238	19.975	Pass
		HCH	16QAM	51	0	18.263	20.101	Pass
		LCH	64QAM	51	0	18.329	20.234	Pass
		MCH	64QAM	51	0	18.248	20.227	Pass
		HCH	64QAM	51	0	18.25	20.151	Pass
		LCH	256QAM	51	0	18.227	19.877	Pass
		MCH	256QAM	51	0	18.242	20.121	Pass
		HCH	256QAM	51	0	18.242	20.037	Pass
	30 MHz	LCH	QPSK	78	0	28.279	34.869	Pass
		MCH	QPSK	78	0	28.267	30.99	Pass
		HCH	QPSK	78	0	28.216	30.872	Pass
		LCH	16QAM	78	0	28.287	33.147	Pass
		MCH	16QAM	78	0	28.233	30.781	Pass
		HCH	16QAM	78	0	28.179	30.54	Pass
		LCH	64QAM	78	0	28.348	34.295	Pass
		MCH	64QAM	78	0	28.341	33.045	Pass
		HCH	64QAM	78	0	28.268	32.426	Pass
		LCH	256QAM	78	0	28.181	30.737	Pass
		MCH	256QAM	78	0	28.22	30.8	Pass
		HCH	256QAM	78	0	28.152	30.604	Pass
	40 MHz	LCH	QPSK	106	0	38.282	45.006	Pass
		MCH	QPSK	106	0	38.283	41.181	Pass
		HCH	QPSK	106	0	38.217	41.12	Pass
		LCH	16QAM	106	0	38.112	43.264	Pass
		MCH	16QAM	106	0	38.111	41.069	Pass
		HCH	16QAM	106	0	38.072	41.102	Pass
		LCH	64QAM	106	0	38.157	47.343	Pass
		MCH	64QAM	106	0	38.146	44.303	Pass
		HCH	64QAM	106	0	38.092	40.879	Pass
		LCH	256QAM	106	0	38.003	40.962	Pass
		MCH	256QAM	106	0	38.014	40.871	Pass
		HCH	256QAM	106	0	37.99	40.892	Pass

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
n77 (3550-3700MHz) SCS=30kHz	20 MHz	LCH	QPSK	51	0	18.265	20.127	Pass
		MCH	QPSK	51	0	18.25	19.849	Pass
		HCH	QPSK	51	0	18.234	19.998	Pass
		LCH	16QAM	51	0	18.221	19.838	Pass
		MCH	16QAM	51	0	18.234	20.126	Pass
		HCH	16QAM	51	0	18.257	20.104	Pass
		LCH	64QAM	51	0	18.385	20.062	Pass
		MCH	64QAM	51	0	18.332	19.761	Pass
		HCH	64QAM	51	0	18.338	19.953	Pass
		LCH	256QAM	51	0	18.263	20.179	Pass
		MCH	256QAM	51	0	18.251	20.006	Pass
		HCH	256QAM	51	0	18.253	20.155	Pass
	30 MHz	LCH	QPSK	78	0	28.186	30.84	Pass
		MCH	QPSK	78	0	28.148	30.806	Pass
		HCH	QPSK	78	0	28.176	30.915	Pass
		LCH	16QAM	78	0	28.17	30.79	Pass
		MCH	16QAM	78	0	28.141	30.804	Pass
		HCH	16QAM	78	0	28.195	30.899	Pass
		LCH	64QAM	78	0	28.26	31.167	Pass
		MCH	64QAM	78	0	28.256	31.233	Pass
		HCH	64QAM	78	0	28.234	30.923	Pass
		LCH	256QAM	78	0	28.15	30.96	Pass
		MCH	256QAM	78	0	28.15	30.701	Pass
		HCH	256QAM	78	0	28.165	31.079	Pass
	40 MHz	LCH	QPSK	106	0	37.937	41.003	Pass
		MCH	QPSK	106	0	37.923	40.683	Pass
		HCH	QPSK	106	0	37.916	40.684	Pass
		LCH	16QAM	106	0	37.994	41.041	Pass
		MCH	16QAM	106	0	37.969	41.057	Pass
		HCH	16QAM	106	0	37.975	41.016	Pass
		LCH	64QAM	106	0	38.075	41.19	Pass
		MCH	64QAM	106	0	38.082	41.184	Pass
		HCH	64QAM	106	0	38.032	41.001	Pass
		LCH	256QAM	106	0	37.924	40.949	Pass
		MCH	256QAM	106	0	37.932	40.996	Pass
		HCH	256QAM	106	0	37.916	41.105	Pass
	60 MHz	LCH	QPSK	162	0	57.764	61.197	Pass

		MCH	QPSK	162	0	57.784	61.095	Pass
		HCH	QPSK	162	0	57.768	61.117	Pass
		LCH	16QAM	162	0	57.717	61.17	Pass
		MCH	16QAM	162	0	57.78	61.186	Pass
		HCH	16QAM	162	0	57.74	61.337	Pass
		LCH	64QAM	162	0	57.664	61.121	Pass
		MCH	64QAM	162	0	57.71	61.299	Pass
		HCH	64QAM	162	0	57.681	61.198	Pass
		LCH	256QAM	162	0	57.923	61.063	Pass
		MCH	256QAM	162	0	57.959	61.204	Pass
		HCH	256QAM	162	0	57.927	61.007	Pass
	80 MHz	LCH	QPSK	217	0	77.474	80.968	Pass
		MCH	QPSK	217	0	77.515	81.034	Pass
		HCH	QPSK	217	0	77.392	81.048	Pass
		LCH	16QAM	217	0	77.28	80.766	Pass
		MCH	16QAM	217	0	77.332	80.771	Pass
		HCH	16QAM	217	0	77.342	80.657	Pass
		LCH	64QAM	217	0	77.363	80.752	Pass
		MCH	64QAM	217	0	77.398	80.839	Pass
		HCH	64QAM	217	0	77.333	80.748	Pass
		LCH	256QAM	217	0	77.458	80.911	Pass
		MCH	256QAM	217	0	77.506	80.919	Pass
		HCH	256QAM	217	0	77.464	80.905	Pass
	100 MHz	LCH	QPSK	273	0	97.159	101.157	Pass
		MCH	QPSK	273	0	97.246	101.166	Pass
		HCH	QPSK	273	0	97.129	100.98	Pass
		LCH	16QAM	273	0	97.191	101.103	Pass
		MCH	16QAM	273	0	97.263	101.167	Pass
		HCH	16QAM	273	0	97.183	101.119	Pass
		LCH	64QAM	273	0	97.236	101.14	Pass
		MCH	64QAM	273	0	97.277	100.857	Pass
		HCH	64QAM	273	0	97.228	100.93	Pass
		LCH	256QAM	273	0	97.376	101.219	Pass
		MCH	256QAM	273	0	97.388	101.14	Pass
		HCH	256QAM	273	0	97.363	101.218	Pass

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
n78 (3550-3700MHz) SCS=30kHz	20 MHz	LCH	QPSK	51	0	18.264	20.08	Pass
		MCH	QPSK	51	0	18.237	20.057	Pass
		HCH	QPSK	51	0	18.225	19.955	Pass
		LCH	16QAM	51	0	18.22	19.863	Pass
		MCH	16QAM	51	0	18.217	20.05	Pass
		HCH	16QAM	51	0	18.227	19.815	Pass
		LCH	64QAM	51	0	18.387	20.098	Pass
		MCH	64QAM	51	0	18.336	19.78	Pass
		HCH	64QAM	51	0	18.341	19.959	Pass
		LCH	256QAM	51	0	18.269	20.21	Pass
		MCH	256QAM	51	0	18.249	19.966	Pass
		HCH	256QAM	51	0	18.253	20.203	Pass
	30 MHz	LCH	QPSK	78	0	28.228	30.864	Pass
		MCH	QPSK	78	0	28.152	30.809	Pass
		HCH	QPSK	78	0	28.157	30.911	Pass
		LCH	16QAM	78	0	28.173	30.861	Pass
		MCH	16QAM	78	0	28.147	30.801	Pass
		HCH	16QAM	78	0	28.267	31.009	Pass
		LCH	64QAM	78	0	28.253	31.191	Pass
		MCH	64QAM	78	0	28.246	30.974	Pass
		HCH	64QAM	78	0	28.232	30.956	Pass
		LCH	256QAM	78	0	28.147	30.977	Pass
		MCH	256QAM	78	0	28.134	30.66	Pass
		HCH	256QAM	78	0	28.178	31.086	Pass
	40 MHz	LCH	QPSK	106	0	37.946	41.018	Pass
		MCH	QPSK	106	0	37.966	40.823	Pass
		HCH	QPSK	106	0	37.911	40.667	Pass
		LCH	16QAM	106	0	38.035	41.05	Pass
		MCH	16QAM	106	0	37.962	41.049	Pass
		HCH	16QAM	106	0	37.987	41.08	Pass
		LCH	64QAM	106	0	38.061	41.148	Pass
		MCH	64QAM	106	0	38.068	41.141	Pass
		HCH	64QAM	106	0	38.03	41.024	Pass
		LCH	256QAM	106	0	37.918	40.94	Pass
		MCH	256QAM	106	0	37.914	40.981	Pass
		HCH	256QAM	106	0	37.917	41.045	Pass
	60 MHz	LCH	QPSK	162	0	57.749	61.167	Pass

		MCH	QPSK	162	0	57.768	61.073	Pass
		HCH	QPSK	162	0	57.763	61.07	Pass
		LCH	16QAM	162	0	57.716	61.154	Pass
		MCH	16QAM	162	0	57.784	61.191	Pass
		HCH	16QAM	162	0	57.735	61.275	Pass
		LCH	64QAM	162	0	57.649	61.115	Pass
		MCH	64QAM	162	0	57.707	61.272	Pass
		HCH	64QAM	162	0	57.696	61.199	Pass
		LCH	256QAM	162	0	57.922	61.056	Pass
		MCH	256QAM	162	0	57.956	61.198	Pass
		HCH	256QAM	162	0	57.929	61.003	Pass
	80 MHz	LCH	QPSK	217	0	77.478	80.973	Pass
		MCH	QPSK	217	0	77.454	81.136	Pass
		HCH	QPSK	217	0	77.404	81.085	Pass
		LCH	16QAM	217	0	77.294	80.709	Pass
		MCH	16QAM	217	0	77.329	80.787	Pass
		HCH	16QAM	217	0	77.327	80.625	Pass
		LCH	64QAM	217	0	77.361	80.763	Pass
		MCH	64QAM	217	0	77.408	80.821	Pass
		HCH	64QAM	217	0	77.337	80.757	Pass
		LCH	256QAM	217	0	77.472	80.932	Pass
		MCH	256QAM	217	0	77.518	80.94	Pass
		HCH	256QAM	217	0	77.462	80.924	Pass
	100 MHz	LCH	QPSK	273	0	97.159	101.094	Pass
		MCH	QPSK	273	0	97.218	101.214	Pass
		HCH	QPSK	273	0	97.118	100.955	Pass
		LCH	16QAM	273	0	97.2	101.123	Pass
		MCH	16QAM	273	0	97.26	101.139	Pass
		HCH	16QAM	273	0	97.175	101.119	Pass
		LCH	64QAM	273	0	97.263	101.114	Pass
		MCH	64QAM	273	0	97.3	100.875	Pass
		HCH	64QAM	273	0	97.232	100.938	Pass
		LCH	256QAM	273	0	97.366	101.234	Pass
		MCH	256QAM	273	0	97.415	101.117	Pass
		HCH	256QAM	273	0	97.355	101.205	Pass

A.4 Frequency Stability

LTE Band 48 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3625 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	0.52	±9062.5	Pass
	-20	-1.2		
	-10	-2.5		
	0	-3.47		
	10	-0.9		
	20	-1.45		
	25	-0.9		
	30	-0.9		
	40	-0.8		
	50	-1.31		
	55	-1.05		
4.4	25	-1.05		
3.4	25	-2.3		

LTE Band 48 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3625 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-0.44	±9062.5	Pass
	-20	-1.11		
	-10	-1.45		
	0	-4.21		
	10	-1.05		
	20	-2.04		
	25	-2.62		
	30	-1.8		
	40	0.96		
	50	-0.44		
	55	-2.77		
4.4	25	-0.44		
3.4	25	-1.38		

NR Band n48 QPSK 40 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-7.5	±9062.48	Pass
	-20	12.1		
	-10	11.1		
	0	9.7		
	10	15.3		
	20	-6.4		
	25	-10.6		
	30	8.9		
	40	-10		
	50	14.9		
	55	15.8		
4.4	25	-8		
3.4	25	9.6		

NR Band n48 16QAM 40 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	9.6	±9062.48	Pass
	-20	18.4		
	-10	13.4		
	0	14.7		
	10	13.7		
	20	9.4		
	25	10.2		
	30	13.6		
	40	8.2		
	50	-9.4		
	55	7.5		
4.4	25	-12.6		
3.4	25	3.7		

NR Band n77(3550-3700MHz) QPSK 100 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-9.2	±9062.48	Pass
	-20	-10.7		
	-10	-8.4		
	0	-11.2		
	10	-18.1		
	20	-10.4		
	25	-11.7		
	30	-13.5		
	40	-17.4		
	50	-11.8		
	55	-4.4		
4.4	25	-13.9		
3.4	25	10.7		

NR Band n77(3550-3700MHz) 16QAM 100 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-14.6	±9062.48	Pass
	-20	-14.4		
	-10	-22.1		
	0	-10.3		
	10	9.4		
	20	10.4		
	25	-16.1		
	30	-22.7		
	40	-6.3		
	50	16.7		
	55	-9.1		
4.4	25	16.1		
3.4	25	-5.5		

NR Band n78(3550-3700MHz) QPSK 100 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-5.7	±9062.48	Pass
	-20	-10.1		
	-10	-9.4		
	0	14.9		
	10	-12.3		
	20	-12		
	25	-18.5		
	30	8.5		
	40	-20.1		
	50	-11.2		
	55	-11.2		
4.4	25	-14.6		
3.4	25	-14.7		

NR Band n78(3550-3700MHz) 16QAM 100 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-10.8	±9062.48	Pass
	-20	-10.8		
	-10	9.7		
	0	-13.7		
	10	13.6		
	20	-10.7		
	25	-5.6		
	30	-13.7		
	40	-10.3		
	50	7.6		
	55	-15.2		
4.4	25	-10.3		
3.4	25	12.7		

A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: Ti-CC26060557-502 Data Part 3.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict Note2
Band 48	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

NR Mode Test Verdict

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note3
n48	20	LCH	QPSK	51	0	Pass
			QPSK	1	0	Pass
			QPSK	1	50	Pass
		MCH	QPSK	51	0	Pass
			QPSK	1	0	Pass
			QPSK	1	50	Pass
		HCH	QPSK	51	0	Pass
			QPSK	1	0	Pass
			QPSK	1	50	Pass
	30	LCH	QPSK	1	0	Pass
			QPSK	1	77	Pass
			QPSK	78	0	Pass
		MCH	QPSK	1	0	Pass
			QPSK	1	77	Pass
			QPSK	78	0	Pass
		HCH	QPSK	1	0	Pass
			QPSK	1	77	Pass
			QPSK	78	0	Pass
	40	LCH	QPSK	106	0	Pass
			QPSK	1	0	Pass
			QPSK	1	105	Pass
		MCH	QPSK	106	0	Pass
			QPSK	1	0	Pass
			QPSK	1	105	Pass
		HCH	QPSK	106	0	Pass
			QPSK	1	0	Pass
			QPSK	1	105	Pass

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note3
n77 (3550-3700MHz)	20	LCH	QPSK	51	0	PASS
			QPSK	1	0	PASS
			QPSK	1	50	PASS
		MCH	QPSK	51	0	PASS
			QPSK	1	0	PASS
			QPSK	1	50	PASS
		HCH	QPSK	51	0	PASS
			QPSK	1	0	PASS
			QPSK	1	50	PASS
	60	LCH	QPSK	162	0	PASS
			QPSK	1	0	PASS
			QPSK	1	161	PASS
		MCH	QPSK	162	0	PASS
			QPSK	1	0	PASS
			QPSK	1	161	PASS
		HCH	QPSK	162	0	PASS
			QPSK	1	0	PASS
			QPSK	1	161	PASS
	100	LCH	QPSK	273	0	PASS
			QPSK	1	0	PASS
			QPSK	1	272	PASS
		MCH	QPSK	273	0	PASS
			QPSK	1	0	PASS
			QPSK	1	272	PASS
		HCH	QPSK	273	0	PASS
			QPSK	1	0	PASS
			QPSK	1	272	PASS

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note3
n78 (3550-3700MHz)	20	LCH	QPSK	51	0	PASS
			QPSK	1	0	PASS
			QPSK	1	50	PASS
		MCH	QPSK	51	0	PASS
			QPSK	1	0	PASS
			QPSK	1	50	PASS
		HCH	QPSK	51	0	PASS
			QPSK	1	0	PASS
			QPSK	1	50	PASS
	60	LCH	QPSK	162	0	PASS
			QPSK	1	0	PASS
			QPSK	1	161	PASS
		MCH	QPSK	162	0	PASS
			QPSK	1	0	PASS
			QPSK	1	161	PASS
		HCH	QPSK	162	0	PASS
			QPSK	1	0	PASS
			QPSK	1	161	PASS
	100	LCH	QPSK	273	0	PASS
			QPSK	1	0	PASS
			QPSK	1	272	PASS
		MCH	QPSK	273	0	PASS
			QPSK	1	0	PASS
			QPSK	1	272	PASS
		HCH	QPSK	273	0	PASS
			QPSK	1	0	PASS
			QPSK	1	272	PASS

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.: Ti-CC26060557-502 Data Part 4.pdf”.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict Note1
Band 48	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
			16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
			16-QAM	RB1#24	Pass
				RB25#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
			16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
			16-QAM	RB1#49	Pass
				RB50#0	Pass
	15 MHz	LCH	QPSK	RB1#0	Pass
				RB75#0	Pass
			16-QAM	RB1#0	Pass
				RB75#0	Pass
		HCH	QPSK	RB1#74	Pass
				RB75#0	Pass
			16-QAM	RB1#74	Pass
				RB75#0	Pass
	20 MHz	LCH	QPSK	RB1#0	Pass
				RB100#0	Pass
			16-QAM	RB1#0	Pass
				RB100#0	Pass
		HCH	QPSK	RB1#99	Pass
				RB100#0	Pass
			16-QAM	RB1#99	Pass
				RB100#0	Pass

NR Mode Test Verdict

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note1
n48	20	LCH	QPSK	1	0	PASS
				51	0	PASS
		HCH	QPSK	1	50	PASS
				51	0	PASS
	30	LCH	QPSK	1	0	PASS
				78	0	PASS
		HCH	QPSK	1	77	PASS
				78	0	PASS
	40	LCH	QPSK	1	0	PASS
				106	0	PASS
		HCH	QPSK	1	105	PASS
				106	0	PASS

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note1
n77 (3550-3700MHz)	20	LCH	QPSK	1	0	PASS
				51	0	PASS
		HCH	QPSK	1	50	PASS
				51	0	PASS
	60	LCH	QPSK	1	0	PASS
				162	0	PASS
		HCH	QPSK	1	161	PASS
				162	0	PASS
	100	LCH	QPSK	1	0	PASS
				273	0	PASS
		HCH	QPSK	1	272	PASS
				273	0	PASS

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note1
n78 (3550-3700MHz)	20	LCH	QPSK	1	0	PASS
				51	0	PASS
		HCH	QPSK	1	50	PASS
				51	0	PASS
	60	LCH	QPSK	1	0	PASS
				162	0	PASS
		HCH	QPSK	1	161	PASS
				162	0	PASS
	100	LCH	QPSK	1	0	PASS
				273	0	PASS
		HCH	QPSK	1	272	PASS
				273	0	PASS

A.7 Field Strength of Spurious Radiation

Note 1: All modes have been tested, and only the worst case data are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: Ti-CC26060557-502 Data Part 5.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Verdict Note3
LTE B48	5 MHz	LCH	Pass

NR Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Verdict Note3
n48	20 MHz	MCH	Pass
n77(3550-3700MHz)	40 MHz	MCH	Pass
n78(3550-3700MHz)	40 MHz	MCH	Pass

EN-DC Configuration		DC_2A_n77A (3550-3700MHz)	DC_5A_n77A (3550-3700MHz)	DC_12A_n77A (3550-3700MHz)	DC_13A_n77A (3550-3750MHz)
NR Cell	Band	n77	n77	n77	n77
	SCS (kHz)	30	30	30	30
	Bandwidth (MHz)	20	20	20	20
	DL Channel	641666	637334	637334	637334
E-UTRA Cell	Band	B2	B5	B12	B13
	Bandwidth (MHz)	5	5	5	5
	DL Channel	900	2425	5035	5205
Verdict ^{Note3}		Pass	Pass	Pass	Pass

EN-DC Configuration		DC_66A_n77A (3550-3700MHz)	DC_48A_n66A	DC_48A_n5A
NR Cell	Band	n77	n66	n5
	SCS (kHz)	30	15	15
	Bandwidth (MHz)	20	5	5
	DL Channel	637334	429000	174300
E-UTRA Cell	Band	B66	B48	B48
	Bandwidth (MHz)	5	5	5
	DL Channel	66461	55990	55265
Verdict Note3		Pass	Pass	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “Ti-CC26060557-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “Ti-CC26060557-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “Ti-CC26060557-AI.PDF”.

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