



# Spot Check Evaluation

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2321-1  
**FCC ID** : IHDT56AJ5  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H),  
27(F), 27(O), 90(S), 96  
47 CFR Part 15 Subpart C §15.225  
47 CFR Part 15 Subpart C §15.247  
47 CFR Part 15 Subpart E §15.407

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

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

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
2D0913-01	Rev. 01	Initial issue of report	Mar. 16, 2023



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2321-1
FCC ID	IHDT56AJ5
IMEI Code	Conducted: 356909990009013/356909990009021 356909990009575/356909990009583 Radiation: 356909990009575/356909990009583 356909990009559/356909990009567 CBP: 356909990009096/356909990009104
HW Version	DVT2
SW Version	TTZ33.61
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Modification of EUT

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



### 1.5 Maximum EIRP

5G NR n41 SA		QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	0.1977	0.1629
30	2511.00 ~ 2674.98	0.2037	0.1607
40	2516.01 ~ 2670.00	0.2061	0.1667
50	2521.02 ~ 2664.99	0.2018	0.1626
60	2526.00 ~ 2659.98	0.2004	0.1611
70	2531.01 ~ 2655.00	0.1950	0.1578
80	2536.02 ~ 2649.99	0.1919	0.1545
90	2541.00 ~ 2644.98	0.1905	0.1567
100	2546.01 ~ 2640.00	0.2109	0.1660

5G NR n41 UL MIMO		QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	0.2328	0.2301
30	2511.00 ~ 2674.98	0.2344	0.2032
40	2516.01 ~ 2670.00	0.2388	0.2080
50	2521.02 ~ 2664.99	0.2301	0.2028
60	2526.00 ~ 2659.98	0.2312	0.1995
70	2531.01 ~ 2655.00	0.2218	0.1941
80	2536.02 ~ 2649.99	0.2153	0.1888
90	2541.00 ~ 2644.98	0.2128	0.1884
100	2546.01 ~ 2640.00	0.2570	0.2239

5G NR n41 supports CP- Mode only.

### 1.6 Testing Site

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

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-KS DFS01-KS 03CH04-KS	CN1257	314309



Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH01-SZ 03CH05-SZ	CN1256	421272

Test data subcontracted: Conducted test results for WWAN bands and RSE test results in section 2.4 of this report.

### 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	DFS01-KS	Sporton	Test Tools	1.0
2.	03CH04-KS	AUDIX	E3	6.2009-8-24al
3.	03CH01-SZ	AUDIX	E3	6.2009-8-24
4.	03CH05-SZ	AUDIX	E3	6.2009-8-24al



## 2 Re-use of Measured Data

### 2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2321-1, FCC ID: IHDT56AJ5) is electrically identical to the reference device (Model: XT2321-3, XT2321-5, FCC ID: IHDT56AJ3) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX) and FCC Part 15E (equipment class: NII, 6XD) and FCC Part 22, 24, 27, 90 (equipment class: PCE) reuse the original model's result and do spot-check. For FCC Part 96 (equipment class: CBE) of LTE B42/43/48, LTE B48 overlaps the entire frequency range of B42/43, and verified B48 power > B42/43 power. Therefore, LTE B48 reuse the original model's result and do spot-check, and the test results of B42/43 covered by B48. All above following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AJ5

### 2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AJ3 and FCC ID: IHDT56AJ5 is as below:

- Disable and enable some LTE/5G NR Bands for different market purpose.
- 5G NR n38 adds 40M bandwidth.

Other differences and all the details of similarity and difference can be found in the confidential documents (XT2321-1\_Operational Description of Product Equality Declaration).



2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	IHDT56AJ3	Original Grant	FR2D0913A	IHDT56AJ5	All sections applicable
	DTS (BLE)	2400~2483.5	IHDT56AJ3	Original Grant	FR2D0913B	IHDT56AJ5	All sections applicable
	DTS (WLAN)	2400~2483.5	IHDT56AJ3	Original Grant	FR2D0913C	IHDT56AJ5	All sections applicable
	DXX (NFC)	13.56	IHDT56AJ3	Original Grant	FR2D0913D	IHDT56AJ5	All sections applicable
15E	NII	5180~5240	IHDT56AJ3	Original Grant	FR2D0913E	IHDT56AJ5	All sections applicable
		5260~5320	IHDT56AJ3	Original Grant	FR2D0913E	IHDT56AJ5	All sections applicable
		5500~5720	IHDT56AJ3	Original Grant	FR2D0913E	IHDT56AJ5	All sections applicable
		5745~5825	IHDT56AJ3	Original Grant	FR2D0913E	IHDT56AJ5	All sections applicable
	6XD	5925~7125	IHDT56AJ3	Original Grant	FR2D0913F	IHDT56AJ5	All sections applicable
22, 24, 27, 90, 96,	PCE (GSM)	GSM 850/1900	IHDT56AJ3	Original Grant	FG2D0913A	IHDT56AJ5	All sections applicable
	PCE (WCDMA)	Band V	IHDT56AJ3	Original Grant	FG2D0913A	IHDT56AJ5	All sections applicable
	PCE (LTE)	B5/7/12/17/26/38/41 ULCA 7C/41C	IHDT56AJ3	Original Grant	FG2D0913B FG2D0913C	IHDT56AJ5	All sections applicable
	PCE (LTE)	B26 (90S)	IHDT56AJ3	Original Grant	FG2D0913E	IHDT56AJ5	All sections applicable
	CBE (LTE)	B48 (cover B42/B43) (Part96)	IHDT56AJ3	Original Grant	FG2D0913G	IHDT56AJ5	All sections applicable
	PCE (NR)	n5/n7/n38/n41/ n77/n78	IHDT56AJ3	Original Grant	FG2D0913J FG2D0913K FG2D0913P	IHDT56AJ5	All sections applicable





### 2.4 Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	IHDT56AJ3 Parent Worst Result	IHDT56AJ5 Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT BR/EDR ANT4	10.55	9.15	-1.40
	BLE 1M ANT4	7.33	6.49	-0.84
	BLE 2M ANT4	7.47	6.78	-0.69
	BT BR/EDR ANT5	13.74	12.61	-1.13
	BLE 1M ANT5	9.72	8.56	-1.16
	BLE 2M ANT5	9.83	9.22	-0.61
	2.4G 11b	27.11	26.75	-0.36
	2.4G 11g	28.93	28.47	-0.46
	2.4G 11n20	28.90	28.29	-0.61
	2.4G 11n40	28.69	28.22	-0.47
	2.4G 11AX20	28.98	28.43	-0.55
	2.4G 11AX40	28.78	28.42	-0.36
	5G 11a UNII-1	22.07	21.85	-0.22
	5G 11a UNII-2A	22.13	21.98	-0.15
	5G 11a UNII-2C	21.54	21.45	-0.09
	5G 11a UNII-3	21.74	21.59	-0.15
	5G 11n20 UNII-1	21.60	21.56	-0.04
	5G 11n20 UNII-2A	21.64	21.70	0.06
	5G 11n20 UNII-2C	21.09	21.10	0.01
	5G 11n20 UNII-3	21.43	21.09	-0.34
	5G 11n40 UNII-1	21.12	21.01	-0.11
	5G 11n40 UNII-2A	21.34	21.30	-0.04
	5G 11n40 UNII-2C	20.53	20.51	-0.02
	5G 11n40 UNII-3	20.76	20.57	-0.19
	5G 11AC20 UNII-1	21.80	21.69	-0.11
	5G 11AC20 UNII-2A	21.85	21.80	-0.05
	5G 11AC20 UNII-2C	21.28	21.19	-0.09
	5G 11AC20 UNII-3	21.57	21.22	-0.35
	5G 11AC40 UNII-1	21.33	21.23	-0.10
	5G 11AC40 UNII-2A	21.53	21.49	-0.04
	5G 11AC40 UNII-2C	20.74	20.66	-0.08
	5G 11AC40 UNII-3	20.97	20.69	-0.28
	5G 11AC80 UNII-1	17.85	17.69	-0.16
	5G 11AC80 UNII-2A	19.64	19.61	-0.03
	5G 11AC80 UNII-2C	19.78	19.73	-0.05
	5G 11AC80 UNII-3	19.92	19.56	-0.36
	5G 11AC160 UNII-2A	16.93	16.83	-0.10
	5G 11AC160 UNII-2C	18.31	18.22	-0.09
	5G 11AX20 UNII-1	21.96	21.89	-0.07
	5G 11AX20 UNII-2A	22.03	21.99	-0.04
5G 11AX20 UNII-2C	21.47	21.40	-0.07	
5G 11AX20 UNII-3	21.68	21.35	-0.33	
5G 11AX40 UNII-1	21.52	21.44	-0.08	
5G 11AX40 UNII-2A	21.68	21.66	-0.02	



5G 11AX40 UNII-2C	20.89	20.80	-0.09
5G 11AX40 UNII-3	21.18	20.83	-0.35
5G 11AX80 UNII-1	17.95	17.85	-0.10
5G 11AX80 UNII-2A	19.80	19.77	-0.03
5G 11AX80 UNII-2C	19.96	19.92	-0.04
5G 11AX80 UNII-3	20.12	19.75	-0.37
5G 11AX160 UNII-2A	17.11	17.06	-0.05
5G 11AX160 UNII-2C	18.46	18.42	-0.04
6E 11a UNII-5	13.27	12.91	-0.36
6E 11a UNII-6	13.04	12.61	-0.43
6E 11a UNII-7	13.10	12.89	-0.21
6E 11a UNII-8	13.25	13.14	-0.11
6E 11AX20 UNII-5	13.27	12.66	-0.61
6E 11AX20 UNII-6	13.08	12.69	-0.39
6E 11AX20 UNII-7	12.99	12.83	-0.16
6E 11AX20 UNII-8	13.26	13.03	-0.23
6E 11AX40 UNII-5	14.84	14.51	-0.33
6E 11AX40 UNII-6	14.84	14.59	-0.25
6E 11AX40 UNII-7	14.88	14.83	-0.05
6E 11AX40 UNII-8	14.92	14.66	-0.26
6E 11AX80 UNII-5	15.84	15.66	-0.18
6E 11AX80 UNII-6	15.87	15.73	-0.14
6E 11AX80 UNII-7	15.91	15.85	-0.06
6E 11AX80 UNII-8	16.17	15.98	-0.19
6E 11AX160 UNII-5	18.05	17.58	-0.47
6E 11AX160 UNII-6	17.66	17.57	-0.09
6E 11AX160 UNII-7	17.80	17.78	-0.02
6E 11AX160 UNII-8	18.12	17.99	-0.13
GSM 850	32.97	33.17	0.20
GSM 1900	29.66	30.03	0.37
WCDMA Band V	22.52	22.97	0.45
LTE B26/B5 (Part 22H)	22.59	22.65	0.06
LTE B26 (Part 90S)	22.50	22.50	0
LTE B7	23.05	23.22	0.17
LTE B12/B17	22.92	22.89	-0.03
LTE B41/B38	26.53	25.92	-0.61
LTE B7C	23.05	23.02	0.03
LTE B41C	25.84	25.78	-0.06
LTE B48 (Part 96)	23.18	23.66	0.48
LTE B42 (Part 96)	NA	23.58	NA
LTE B43 (Part 96)	NA	23.64	NA
5G NR n5	23.62	23.19	-0.43
5G NR n7	23.35	23.18	-0.17
5G NR n38	24.39	24.35	-0.04
5G NR n41	25.15	25.14	-0.01
5G NR n77 (Part 27O)	26.98	26.37	-0.61
5G NR n78 (Part 27O)	26.94	26.39	-0.55

Note:

1. The original model does not support LTE B42/B43 but after verify power for the variant model, LTE B42/B43 can be covered by LTE B48 for the Part 96 portion.
2. Enable the band of EN-DC 41A\_n77 & EN-DC 38A\_n78 & EN-DC 41A\_n78, after verify the power, these combinations can be covered by 5G NR n77, and RSE for the worst band EN-DC 41A\_n77 were tested.



3. Enable the band of EN-DC 5A\_n41, after verify the power, the combination can be covered by 5G NR n41, and RSE were tested.
4. 5G NR n77 supports power class 2, do not support MIMO mode; n78 support power class 2 and MIMO mode.
5. The power and EIRP of 5G NR n41 UL MIMO, power class 2 were re-tested and shown in this report.

Test Item	Mode	IHDT56AJ3 Parent Worst Result	IHDT56AJ5 Variant Check Result	Difference (dB)
Radiated Spurious Emission ( dBm)	LTE Band 48	-12.16	-12.07	0.09

Test Item	Mode	IHDT56AJ3 Parent Worst Result	IHDT56AJ5 Variant Check Result	Difference (dB)
Field Strength (dBuV/m) @ 3m	NFC 13.56MHz	57.87	59.89	2.02

Test Item	Mode	IHDT56AJ3 Parent Worst Result	IHDT56AJ5 Variant Check Result	Difference (dB)
CBP	UNII-8 BW160M CH Freq. 6985MHz	-62.31	-62.64	0.33

Conclusion:

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

The same DFS detection and Part 96 EUD mechanism/software is used in the variant. Hence, there is no spot check data for DFS and Part 96 EUD hand-shaking mechanism.

The same CBP detection mechanism/software/antenna gain is used in the variant. Hence, all test cases refer to parent report for CBP.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



### 3 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jan. 12, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Jan. 12, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Jan. 12, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Feb. 16, 2023~Mar. 28, 2023	Apr. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2022	Feb. 16, 2023~Mar. 28, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	May 20, 2022	Jan. 30, 2023	May 19, 2023	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 06, 2022	Jan. 30, 2023	Apr. 05, 2023	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Jan. 30, 2023	Jun. 27, 2023	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 06, 2022	Jan. 30, 2023	Apr. 05, 2023	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Nov. 10, 2022	Jan. 30, 2023	Nov. 09, 2023	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Jan. 30, 2023	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Jan. 30, 2023	NCR	Radiation (03CH05-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2022	Feb. 10, 2023~Mar. 14, 2023	Dec. 25, 2023	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Feb. 10, 2023~Mar. 14, 2023	Jul. 27, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 19, 2022	Feb. 10, 2023~Mar. 14, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2022	Feb. 10, 2023~Mar. 14, 2023	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Feb. 10, 2023~Mar. 14, 2023	Jul. 06, 2023	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 10, 2022	Feb. 10, 2023~Mar. 14, 2023	Apr. 09, 2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	Feb. 10, 2023~Mar. 14, 2023	Apr. 05, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Feb. 10, 2023~Mar. 14, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Feb. 10, 2023~Mar. 14, 2023	Jul. 05, 2023	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Nov. 10, 2022	Feb. 10, 2023~Mar. 14, 2023	Nov. 09, 2023	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 10, 2023~Mar. 14, 2023	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 10, 2023~Mar. 14, 2023	NCR	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Mar. 13, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Mar. 13, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Mar. 13, 2023	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Mar. 13, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Mar. 13, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	May 24, 2022	Mar. 13, 2023	May 23, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Mar. 13, 2023	Jan. 04, 2024	Radiation (03CH04-KS)



high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 12, 2022	Mar. 13, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Mar. 13, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 13, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 13, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 13, 2023	NCR	Radiation (03CH04-KS)
Signal Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 05, 2023	Jan. 30, 2023	Jan. 04, 2024	CBP (DFS01-KS)
MXG-B RF Vector Signal Genertor	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	May 24, 2022	Jan. 30, 2023	May 23, 2023	CBP (DFS01-KS)
Vector Signal Generator	R&S	SMBV100A	258305	9kHz~6GHz	Jan. 05, 2023	Jan. 30, 2023	Jan. 04, 2024	CBP (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Jan. 30, 2023	NCR	CBP (DFS01-KS)
Notebook	Dell	P78G	N/A	N/A	NCR	Jan. 30, 2023	NCR	CBP (DFS01-KS)

NCR: No Calibration Required.



## 4 Uncertainty of Evaluation

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

<TH01-KS>:

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB

<TH01-SZ>:

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB

<03CH05-SZ>:

### Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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<03CH01-SZ>:

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02dB
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<03CH04-KS>:

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

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

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

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

Test Engineer :	Fly Liang	Temperature :	22~23°C
		Relative Humidity :	40~42%

### Conducted Output Power(Average power) and EIRP

#### LTE Band 42(Part96):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				43190	43340	43490
Frequency (MHz)				3560	3575	3590
20	QPSK	1	0	23.56	23.58	23.43
20	QPSK	1	49	23.56	23.55	23.43
20	QPSK	1	99	23.38	23.52	23.37
20	QPSK	50	0	22.47	22.60	22.48
20	QPSK	50	24	22.44	22.43	22.45
20	QPSK	50	50	22.36	22.35	22.33
20	QPSK	100	0	22.29	22.53	22.46
20	16QAM	1	0	22.35	22.37	22.38
20	16QAM	1	49	22.23	22.32	22.26
20	16QAM	1	99	22.26	22.34	22.15
20	16QAM	50	0	21.40	21.64	21.43
20	16QAM	50	24	21.39	21.48	21.46
20	16QAM	50	50	21.26	21.51	21.41
20	16QAM	100	0	21.30	21.50	21.32
20	64QAM	1	0	21.38	21.50	21.38
20	64QAM	1	49	21.25	21.44	21.29
20	64QAM	1	99	21.26	21.28	21.23
20	64QAM	50	0	20.49	20.56	20.51
20	64QAM	50	24	20.40	20.49	20.47
20	64QAM	50	50	20.35	20.39	20.18
20	64QAM	100	0	20.29	20.41	20.27
20	256QAM	1	0	18.33	18.38	18.30
20	256QAM	1	49	18.27	18.37	18.30
20	256QAM	1	99	18.22	18.24	18.20
20	256QAM	50	0	18.37	18.35	18.27
20	256QAM	50	24	18.15	18.34	18.03
20	256QAM	50	50	18.17	18.21	18.03
20	256QAM	100	0	18.32	18.35	18.24
Channel				43165	43340	43515
Frequency (MHz)				3557.5	3575	3592.5
15	QPSK	1	0	23.52	23.56	23.42
15	QPSK	1	37	23.45	23.52	23.42
15	QPSK	1	74	23.36	23.41	23.31
15	QPSK	36	0	22.38	22.58	22.39
15	QPSK	36	20	22.32	22.28	22.36
15	QPSK	36	39	22.31	22.25	22.22





15	QPSK	75	0	22.24	22.39	22.37
15	16QAM	1	0	22.31	22.29	22.29
15	16QAM	1	37	22.08	22.27	22.13
15	16QAM	1	74	22.23	22.26	22.11
15	16QAM	36	0	21.31	21.50	21.37
15	16QAM	36	20	21.32	21.33	21.44
15	16QAM	36	39	21.21	21.42	21.26
15	16QAM	75	0	21.22	21.42	21.22
15	64QAM	1	0	21.35	21.46	21.35
15	64QAM	1	37	21.09	21.39	21.25
15	64QAM	1	74	21.21	21.18	21.21
15	64QAM	36	0	20.45	20.54	20.35
15	64QAM	36	20	20.23	20.46	20.31
15	64QAM	36	39	20.31	20.22	20.05
15	64QAM	75	0	20.16	20.32	20.25
15	256QAM	1	0	18.30	18.36	18.24
15	256QAM	1	37	18.22	18.25	18.17
15	256QAM	1	74	18.12	18.18	18.18
15	256QAM	36	0	18.29	18.32	18.15
15	256QAM	36	20	18.11	18.32	17.87
15	256QAM	36	39	18.12	18.17	17.89
15	256QAM	75	0	18.27	18.21	18.18
Channel				43140	43340	43540
Frequency (MHz)				3555	3575	3595
10	QPSK	1	0	23.42	23.51	23.32
10	QPSK	1	25	23.42	23.49	23.40
10	QPSK	1	49	23.26	23.50	23.27
10	QPSK	25	0	22.33	22.44	22.41
10	QPSK	25	12	22.39	22.33	22.38
10	QPSK	25	25	22.34	22.29	22.22
10	QPSK	50	0	22.24	22.45	22.45
10	16QAM	1	0	22.32	22.34	22.22
10	16QAM	1	25	22.16	22.16	22.17
10	16QAM	1	49	22.14	22.27	22.05
10	16QAM	25	0	21.31	21.63	21.34
10	16QAM	25	12	21.31	21.36	21.30
10	16QAM	25	25	21.21	21.39	21.31
10	16QAM	50	0	21.23	21.47	21.26
10	64QAM	1	0	21.34	21.46	21.37
10	64QAM	1	25	21.16	21.30	21.28
10	64QAM	1	49	21.19	21.20	21.18
10	64QAM	25	0	20.37	20.42	20.38
10	64QAM	25	12	20.38	20.46	20.45
10	64QAM	25	25	20.28	20.32	20.02
10	64QAM	50	0	20.27	20.40	20.19
10	256QAM	1	0	18.16	18.36	18.19
10	256QAM	1	25	18.16	18.21	18.18
10	256QAM	1	49	18.17	18.10	18.10
10	256QAM	25	0	18.22	18.32	18.24
10	256QAM	25	12	18.02	18.26	18.01



10	256QAM	25	25	18.01	18.04	18.00
10	256QAM	50	0	18.29	18.22	18.08
Channel				43115	43340	43565
Frequency (MHz)				3552.5	3575	3597.5
5	QPSK	1	0	23.53	23.44	23.40
5	QPSK	1	12	23.47	23.46	23.26
5	QPSK	1	24	23.31	23.38	23.22
5	QPSK	12	0	22.33	22.54	22.45
5	QPSK	12	7	22.35	22.33	22.41
5	QPSK	12	13	22.25	22.33	22.25
5	QPSK	25	0	22.12	22.44	22.39
5	16QAM	1	0	22.21	22.20	22.25
5	16QAM	1	12	22.18	22.23	22.24
5	16QAM	1	24	22.19	22.23	22.11
5	16QAM	12	0	21.37	21.48	21.36
5	16QAM	12	7	21.35	21.43	21.32
5	16QAM	12	13	21.23	21.41	21.36
5	16QAM	25	0	21.16	21.36	21.22
5	64QAM	1	0	21.29	21.43	21.33
5	64QAM	1	12	21.17	21.30	21.23
5	64QAM	1	24	21.24	21.17	21.10
5	64QAM	12	0	20.48	20.46	20.41
5	64QAM	12	7	20.36	20.45	20.36
5	64QAM	12	13	20.19	20.34	20.06
5	64QAM	25	0	20.27	20.26	20.26
5	256QAM	1	0	18.26	18.31	18.15
5	256QAM	1	12	18.22	18.26	18.23
5	256QAM	1	24	18.18	18.12	18.18
5	256QAM	12	0	18.32	18.28	18.18
5	256QAM	12	7	18.12	18.20	18.01
5	256QAM	12	13	18.10	18.08	17.89
5	256QAM	25	0	18.24	18.26	18.13



LTE Band 43(Part96):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				43690	44090	44490
Frequency (MHz)				3610	3650	3690
20	QPSK	1	0	23.60	23.64	23.55
20	QPSK	1	49	23.54	23.59	23.48
20	QPSK	1	99	23.47	23.52	23.47
20	QPSK	50	0	22.51	22.57	22.45
20	QPSK	50	24	22.39	22.52	22.39
20	QPSK	50	50	22.34	22.45	22.32
20	QPSK	100	0	22.47	22.51	22.37
20	16QAM	1	0	22.43	22.46	22.36
20	16QAM	1	49	22.36	22.41	22.38
20	16QAM	1	99	22.30	22.34	22.29
20	16QAM	50	0	21.41	21.53	21.49
20	16QAM	50	24	21.44	21.48	21.41
20	16QAM	50	50	21.32	21.41	21.28
20	16QAM	100	0	21.32	21.47	21.40
20	64QAM	1	0	21.29	21.42	21.37
20	64QAM	1	49	21.31	21.37	21.33
20	64QAM	1	99	21.24	21.30	21.21
20	64QAM	50	0	20.46	20.53	20.40
20	64QAM	50	24	20.37	20.48	20.41
20	64QAM	50	50	20.34	20.41	20.26
20	64QAM	100	0	20.43	20.48	20.36
20	256QAM	1	0	18.35	18.44	18.29
20	256QAM	1	49	18.29	18.39	18.35
20	256QAM	1	99	18.19	18.32	18.19
20	256QAM	50	0	18.34	18.37	18.31
20	256QAM	50	24	18.25	18.32	18.19
20	256QAM	50	50	18.12	18.25	18.17
20	256QAM	100	0	18.27	18.32	18.21
Channel				43665	44090	44515
Frequency (MHz)				3607.5	3650	3692.5
15	QPSK	1	0	23.45	23.60	23.46
15	QPSK	1	37	23.51	23.50	23.33
15	QPSK	1	74	23.43	23.43	23.34
15	QPSK	36	0	22.45	22.46	22.37
15	QPSK	36	20	22.33	22.43	22.28
15	QPSK	36	39	22.28	22.36	22.24
15	QPSK	75	0	22.32	22.43	22.23
15	16QAM	1	0	22.37	22.32	22.22
15	16QAM	1	37	22.25	22.35	22.25
15	16QAM	1	74	22.26	22.26	22.26
15	16QAM	36	0	21.28	21.46	21.38
15	16QAM	36	20	21.30	21.35	21.38
15	16QAM	36	39	21.25	21.32	21.15
15	16QAM	75	0	21.22	21.40	21.37
15	64QAM	1	0	21.19	21.30	21.34



15	64QAM	1	37	21.18	21.26	21.20
15	64QAM	1	74	21.15	21.21	21.08
15	64QAM	36	0	20.35	20.44	20.30
15	64QAM	36	20	20.29	20.41	20.34
15	64QAM	36	39	20.30	20.36	20.22
15	64QAM	75	0	20.39	20.42	20.27
15	256QAM	1	0	18.23	18.30	18.26
15	256QAM	1	37	18.22	18.24	18.25
15	256QAM	1	74	18.04	18.24	18.15
15	256QAM	36	0	18.26	18.28	18.21
15	256QAM	36	20	18.21	18.22	18.05
15	256QAM	36	39	18.03	18.21	18.11
15	256QAM	75	0	18.13	18.28	18.09
Channel				43640	44090	44540
Frequency (MHz)				3605	3650	3695
10	QPSK	1	0	23.50	23.54	23.45
10	QPSK	1	25	23.51	23.48	23.34
10	QPSK	1	49	23.42	23.38	23.37
10	QPSK	25	0	22.48	22.51	22.36
10	QPSK	25	12	22.31	22.48	22.31
10	QPSK	25	25	22.27	22.38	22.18
10	QPSK	50	0	22.35	22.40	22.24
10	16QAM	1	0	22.32	22.33	22.32
10	16QAM	1	25	22.23	22.36	22.29
10	16QAM	1	49	22.24	22.21	22.22
10	16QAM	25	0	21.34	21.44	21.35
10	16QAM	25	12	21.32	21.36	21.31
10	16QAM	25	25	21.23	21.31	21.16
10	16QAM	50	0	21.24	21.43	21.27
10	64QAM	1	0	21.19	21.34	21.25
10	64QAM	1	25	21.16	21.25	21.20
10	64QAM	1	49	21.15	21.27	21.06
10	64QAM	25	0	20.32	20.40	20.35
10	64QAM	25	12	20.33	20.40	20.30
10	64QAM	25	25	20.25	20.35	20.13
10	64QAM	50	0	20.34	20.40	20.27
10	256QAM	1	0	18.30	18.34	18.19
10	256QAM	1	25	18.23	18.31	18.31
10	256QAM	1	49	18.09	18.18	18.04
10	256QAM	25	0	18.29	18.23	18.20
10	256QAM	25	12	18.16	18.29	18.10
10	256QAM	25	25	18.05	18.18	18.14
10	256QAM	50	0	18.20	18.18	18.12
Channel				43615	44090	44565
Frequency (MHz)				3602.5	3650	3697.5
5	QPSK	1	0	23.47	23.59	23.50
5	QPSK	1	12	23.49	23.55	23.44
5	QPSK	1	24	23.36	23.43	23.32
5	QPSK	12	0	22.37	22.44	22.32
5	QPSK	12	7	22.27	22.41	22.31



5	QPSK	12	13	22.26	22.31	22.23
5	QPSK	25	0	22.41	22.38	22.24
5	16QAM	1	0	22.28	22.31	22.31
5	16QAM	1	12	22.28	22.29	22.32
5	16QAM	1	24	22.19	22.25	22.22
5	16QAM	12	0	21.31	21.46	21.45
5	16QAM	12	7	21.32	21.44	21.37
5	16QAM	12	13	21.19	21.32	21.20
5	16QAM	25	0	21.25	21.39	21.33
5	64QAM	1	0	21.24	21.28	21.26
5	64QAM	1	12	21.26	21.32	21.22
5	64QAM	1	24	21.15	21.15	21.08
5	64QAM	12	0	20.32	20.47	20.26
5	64QAM	12	7	20.28	20.44	20.27
5	64QAM	12	13	20.20	20.35	20.17
5	64QAM	25	0	20.31	20.42	20.25
5	256QAM	1	0	18.30	18.35	18.15
5	256QAM	1	12	18.22	18.30	18.29
5	256QAM	1	24	18.06	18.29	18.07
5	256QAM	12	0	18.28	18.26	18.27
5	256QAM	12	7	18.13	18.23	18.10
5	256QAM	12	13	18.03	18.12	18.06
5	256QAM	25	0	18.15	18.20	18.15



5G NR n38 (ANT3):

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	50@25	23.5	21.59	0.1442
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	23.5	21.59	0.1442
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@104	23.76	21.85	0.1531
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	23.55	21.64	0.1459
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	23.56	21.65	0.1462
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	23.74	21.83	0.1524
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	50@25	22.62	20.71	0.1178
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	22.53	20.62	0.1153
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@104	22.73	20.82	0.1208
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	50@25	21.2	19.29	0.0849
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	21.2	19.29	0.0849
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@104	21.12	19.21	0.0834
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	50@25	19.15	17.24	0.0530
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	18.81	16.9	0.0490
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@104	18.95	17.04	0.0506
38	30	40	518000	2590	CP-OFDM QPSK	53@26	22.09	20.18	0.1042
38	30	40	518000	2590	CP-OFDM QPSK	1@1	22.09	20.18	0.1042
38	30	40	518000	2590	CP-OFDM QPSK	1@104	22.29	20.38	0.1091
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	50@25	23.59	21.68	0.1472
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	23.56	21.65	0.1462
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@104	23.88	21.97	0.1574
38	30	40	519000	2595	DFT-s-OFDM QPSK	50@25	23.58	21.67	0.1469
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@1	23.53	21.62	0.1452
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@104	23.83	21.92	0.1556
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	50@25	22.59	20.68	0.1169
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.62	20.71	0.1178
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@104	22.87	20.96	0.1247
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	50@25	21.26	19.35	0.0861
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	21.04	19.13	0.0818
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@104	21.27	19.36	0.0863
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	50@25	19.14	17.23	0.0528
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	18.77	16.86	0.0485
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@104	19.03	17.12	0.0515
38	30	40	519000	2595	CP-OFDM QPSK	53@26	22.08	20.17	0.1040
38	30	40	519000	2595	CP-OFDM QPSK	1@1	22.18	20.27	0.1064
38	30	40	519000	2595	CP-OFDM QPSK	1@104	22.41	20.5	0.1122
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	50@25	23.58	21.67	0.1469
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@1	23.5	21.59	0.1442
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@104	23.83	21.92	0.1556
38	30	40	520000	2600	DFT-s-OFDM QPSK	50@25	23.56	21.65	0.1462
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@1	23.51	21.6	0.1445
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@104	23.83	21.92	0.1556
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	50@25	22.7	20.79	0.1199



38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	22.55	20.64	0.1159
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@104	22.81	20.9	0.1230
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	50@25	21.29	19.38	0.0867
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	21.21	19.3	0.0851
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@104	21.2	19.29	0.0849
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	50@25	19.21	17.3	0.0537
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	18.71	16.8	0.0479
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@104	19	17.09	0.0512
38	30	40	520000	2600	CP-OFDM QPSK	53@26	22.16	20.25	0.1059
38	30	40	520000	2600	CP-OFDM QPSK	1@1	22.14	20.23	0.1054
38	30	40	520000	2600	CP-OFDM QPSK	1@104	22.39	20.48	0.1117



5G NR n41 SA (ANT3):

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	24.87	22.96	0.1977
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	24.03	22.12	0.1629
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.59	22.68	0.1854
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.73	21.82	0.1521
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	24.58	22.67	0.1849
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	23.71	21.8	0.1514
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	25	23.09	0.2037
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	23.97	22.06	0.1607
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.77	22.86	0.1932
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.78	21.87	0.1538
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	24.67	22.76	0.1888
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	23.75	21.84	0.1528
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	25.05	23.14	0.2061
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	24.13	22.22	0.1667
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.83	22.92	0.1959
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.91	22	0.1585
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	24.84	22.93	0.1963
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	23.85	21.94	0.1563
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	24.96	23.05	0.2018
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	24.02	22.11	0.1626
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.73	22.82	0.1914
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.82	21.91	0.1552
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	24.7	22.79	0.1901
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	23.78	21.87	0.1538
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	24.93	23.02	0.2004
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	23.98	22.07	0.1611
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.74	22.83	0.1919
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.8	21.89	0.1545
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	24.63	22.72	0.1871
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	23.74	21.83	0.1524
41	30	70	505200	2531.01	DFT-s-OFDM QPSK	1@1	24.81	22.9	0.1950
41	30	70	505200	2531.01	DFT-s-OFDM 16 QAM	1@1	23.89	21.98	0.1578
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.54	22.63	0.1832
41	30	70	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.65	21.74	0.1493
41	30	70	531996	2655	DFT-s-OFDM QPSK	1@1	24.42	22.51	0.1782
41	30	70	531996	2655	DFT-s-OFDM 16 QAM	1@1	23.47	21.56	0.1432
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	24.74	22.83	0.1919
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	23.8	21.89	0.1545
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.47	22.56	0.1803
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.51	21.6	0.1445
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	24.32	22.41	0.1742
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	23.35	21.44	0.1393
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	24.71	22.8	0.1905





41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	23.86	21.95	0.1567
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.48	22.57	0.1807
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.58	21.67	0.1469
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	24.22	22.31	0.1702
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	23.3	21.39	0.1377
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	24.87	22.96	0.1977
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	24.78	22.87	0.1936
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	24.77	22.86	0.1932
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	24.72	22.81	0.1910
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	24.69	22.78	0.1897
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	24.86	22.95	0.1972
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	23.76	21.85	0.1531
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	23.9	21.99	0.1581
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	23.87	21.96	0.1570
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	22.24	20.33	0.1079
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	22.33	20.42	0.1102
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	22.36	20.45	0.1109
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	20.34	18.43	0.0697
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	20.09	18.18	0.0658
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	20.18	18.27	0.0671
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	23.35	21.44	0.1393
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	23.23	21.32	0.1355
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	23.24	21.33	0.1358
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	24.66	22.75	0.1884
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	24.52	22.61	0.1824
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	25.03	23.12	0.2051
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	24.71	22.8	0.1905
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	24.41	22.5	0.1778
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	25.15	23.24	0.2109
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	23.66	21.75	0.1496
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	23.53	21.62	0.1452
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	24.11	22.2	0.1660
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	22.19	20.28	0.1067
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	22.06	20.15	0.1035
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	22.61	20.7	0.1175
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	20.22	18.31	0.0678
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	19.8	17.89	0.0615
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	20.47	18.56	0.0718
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	23.17	21.26	0.1337
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	22.89	20.98	0.1253
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	23.46	21.55	0.1429
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	135@67	24.8	22.89	0.1945
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@1	24.26	22.35	0.1718
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@271	25.03	23.12	0.2051
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	24.69	22.78	0.1897



41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	24.32	22.41	0.1742
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	25.04	23.13	0.2056
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	23.66	21.75	0.1496
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	23.32	21.41	0.1384
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	24.05	22.14	0.1637
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	22.18	20.27	0.1064
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	21.93	20.02	0.1005
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	22.5	20.59	0.1146
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	20.17	18.26	0.0670
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	19.83	17.92	0.0619
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	20.46	18.55	0.0716
41	30	100	528000	2640	CP-OFDM QPSK	137@68	23.26	21.35	0.1365
41	30	100	528000	2640	CP-OFDM QPSK	1@1	22.74	20.83	0.1211
41	30	100	528000	2640	CP-OFDM QPSK	1@271	23.34	21.43	0.1390



5G NR n41\_UL MIMO (ANT3+2):

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power(dBm)	ANT2 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
41	30	20	501204	2506.02	CP-OFDM QPSK	1@1	20.56	21.11	23.85	22.99	0.1991
41	30	20	501204	2506.02	CP-OFDM 16 QAM	1@1	19.91	20.71	23.34	22.48	0.1770
41	30	20	518598	2592.99	CP-OFDM QPSK	1@1	21.7	21.19	24.46	23.60	0.2291
41	30	20	518598	2592.99	CP-OFDM 16 QAM	1@1	21.71	21.21	24.48	23.62	0.2301
41	30	20	535998	2679.99	CP-OFDM QPSK	1@1	21.65	21.39	24.53	23.67	0.2328
41	30	20	535998	2679.99	CP-OFDM 16 QAM	1@1	21.17	20.68	23.94	23.08	0.2032
41	30	30	502200	2511	CP-OFDM QPSK	1@1	20.6	21.27	23.96	23.10	0.2042
41	30	30	502200	2511	CP-OFDM 16 QAM	1@1	19.92	20.63	23.30	22.44	0.1754
41	30	30	518598	2592.99	CP-OFDM QPSK	1@1	21.79	21.29	24.56	23.70	0.2344
41	30	30	518598	2592.99	CP-OFDM 16 QAM	1@1	21.04	20.73	23.90	23.04	0.2014
41	30	30	534996	2674.98	CP-OFDM QPSK	1@1	21.68	21.39	24.55	23.69	0.2339
41	30	30	534996	2674.98	CP-OFDM 16 QAM	1@1	21.17	20.67	23.94	23.08	0.2032
41	30	40	503202	2516.01	CP-OFDM QPSK	1@1	20.69	21.27	24.00	23.14	0.2061
41	30	40	503202	2516.01	CP-OFDM 16 QAM	1@1	19.9	20.84	23.41	22.55	0.1799
41	30	40	518598	2592.99	CP-OFDM QPSK	1@1	21.69	21.51	24.61	23.75	0.2371
41	30	40	518598	2592.99	CP-OFDM 16 QAM	1@1	21.1	20.8	23.96	23.10	0.2042
41	30	40	534000	2670	CP-OFDM QPSK	1@1	21.74	21.51	24.64	23.78	0.2388
41	30	40	534000	2670	CP-OFDM 16 QAM	1@1	21.34	20.69	24.04	23.18	0.2080
41	30	50	504204	2521.02	CP-OFDM QPSK	1@1	20.56	21.14	23.87	23.01	0.2000
41	30	50	504204	2521.02	CP-OFDM 16 QAM	1@1	19.84	20.78	23.35	22.49	0.1774
41	30	50	518598	2592.99	CP-OFDM QPSK	1@1	21.66	21.28	24.48	23.62	0.2301
41	30	50	518598	2592.99	CP-OFDM 16 QAM	1@1	20.96	20.88	23.93	23.07	0.2028
41	30	50	532998	2664.99	CP-OFDM QPSK	1@1	21.66	21.24	24.47	23.61	0.2296
41	30	50	532998	2664.99	CP-OFDM 16 QAM	1@1	21.08	20.67	23.89	23.03	0.2009
41	30	60	505200	2526	CP-OFDM QPSK	1@1	20.5	21.15	23.85	22.99	0.1991
41	30	60	505200	2526	CP-OFDM 16 QAM	1@1	19.79	20.6	23.22	22.36	0.1722
41	30	60	518598	2592.99	CP-OFDM QPSK	1@1	21.48	21.23	24.37	23.51	0.2244
41	30	60	518598	2592.99	CP-OFDM 16 QAM	1@1	20.83	20.64	23.75	22.89	0.1945
41	30	60	531996	2659.98	CP-OFDM QPSK	1@1	21.71	21.26	24.50	23.64	0.2312
41	30	60	531996	2659.98	CP-OFDM 16 QAM	1@1	21.08	20.61	23.86	23.00	0.1995
41	30	70	505200	2531.01	CP-OFDM QPSK	1@1	20.51	21.05	23.80	22.94	0.1968
41	30	70	505200	2531.01	CP-OFDM 16 QAM	1@1	19.76	20.55	23.18	22.32	0.1706
41	30	70	518598	2592.99	CP-OFDM QPSK	1@1	21.36	21.17	24.28	23.42	0.2198



41	30	70	518598	2592.99	CP-OFDM 16 QAM	1@1	20.67	20.53	23.61	22.75	0.1884
41	30	70	531996	2655	CP-OFDM QPSK	1@1	21.6	21	24.32	23.46	0.2218
41	30	70	531996	2655	CP-OFDM 16 QAM	1@1	20.93	20.52	23.74	22.88	0.1941
41	30	80	507204	2536.02	CP-OFDM QPSK	1@1	20.43	21.04	23.76	22.90	0.1950
41	30	80	507204	2536.02	CP-OFDM 16 QAM	1@1	19.71	20.54	23.16	22.30	0.1698
41	30	80	518598	2592.99	CP-OFDM QPSK	1@1	21.14	21.01	24.09	23.23	0.2104
41	30	80	518598	2592.99	CP-OFDM 16 QAM	1@1	20.49	20.41	23.46	22.60	0.1820
41	30	80	529998	2649.99	CP-OFDM QPSK	1@1	21.47	20.86	24.19	23.33	0.2153
41	30	80	529998	2649.99	CP-OFDM 16 QAM	1@1	20.96	20.22	23.62	22.76	0.1888
41	30	90	508200	2541	CP-OFDM QPSK	1@1	20.44	21.09	23.79	22.93	0.1963
41	30	90	508200	2541	CP-OFDM 16 QAM	1@1	19.73	20.57	23.18	22.32	0.1706
41	30	90	518598	2592.99	CP-OFDM QPSK	1@1	21.11	20.93	24.03	23.17	0.2075
41	30	90	518598	2592.99	CP-OFDM 16 QAM	1@1	20.45	20.34	23.41	22.55	0.1799
41	30	90	528996	2644.98	CP-OFDM QPSK	1@1	21.39	20.85	24.14	23.28	0.2128
41	30	90	528996	2644.98	CP-OFDM 16 QAM	1@1	20.99	20.16	23.61	22.75	0.1884
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	21.11	21.14	24.14	23.28	0.2128
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	20.34	21.09	23.74	22.88	0.1941
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	21.85	21.25	24.57	23.71	0.2350
41	30	100	509202	2546.01	CP-OFDM 16 QAM	137@68	20.69	20.65	23.68	22.82	0.1914
41	30	100	509202	2546.01	CP-OFDM 16 QAM	1@1	19.55	20.56	23.09	22.23	0.1671
41	30	100	509202	2546.01	CP-OFDM 16 QAM	1@271	21.1	20.74	23.93	23.07	0.2028
41	30	100	509202	2546.01	CP-OFDM 64 QAM	137@68	19.3	19.18	22.25	21.39	0.1377
41	30	100	509202	2546.01	CP-OFDM 64 QAM	1@1	18.25	19.11	21.71	20.85	0.1216
41	30	100	509202	2546.01	CP-OFDM 64 QAM	1@271	19.58	19.39	22.50	21.64	0.1459
41	30	100	509202	2546.01	CP-OFDM 256 QAM	137@68	16.33	16.09	19.22	18.36	0.0685
41	30	100	509202	2546.01	CP-OFDM 256 QAM	1@1	15.55	15.99	18.79	17.93	0.0621
41	30	100	509202	2546.01	CP-OFDM 256 QAM	1@271	16.87	16.12	19.52	18.66	0.0735
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	21.6	21.11	24.37	23.51	0.2244
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	21	20.88	23.95	23.09	0.2037
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	21.83	21.78	24.82	23.96	0.2489
41	30	100	518598	2592.99	CP-OFDM 16 QAM	137@68	21.26	20.7	24.00	23.14	0.2061
41	30	100	518598	2592.99	CP-OFDM 16 QAM	1@1	20.29	20.36	23.34	22.48	0.1770
41	30	100	518598	2592.99	CP-OFDM 16 QAM	1@271	21.44	21.26	24.36	23.50	0.2239
41	30	100	518598	2592.99	CP-OFDM 64 QAM	137@68	19.78	19.18	22.50	21.64	0.1459
41	30	100	518598	2592.99	CP-OFDM 64 QAM	1@1	18.77	18.76	21.78	20.92	0.1236



41	30	100	518598	2592.99	CP-OFDM 64 QAM	1@271	19.97	19.63	22.81	21.95	0.1567
41	30	100	518598	2592.99	CP-OFDM 256 QAM	137@68	16.77	16.19	19.50	18.64	0.0731
41	30	100	518598	2592.99	CP-OFDM 256 QAM	1@1	16.08	15.84	18.97	18.11	0.0647
41	30	100	518598	2592.99	CP-OFDM 256 QAM	1@271	17.28	16.59	19.96	19.10	0.0813
41	30	100	528000	2640	CP-OFDM QPSK	137@68	21.71	21.39	24.56	23.70	0.2344
41	30	100	528000	2640	CP-OFDM QPSK	1@1	21.34	20.93	24.15	23.29	0.2133
41	30	100	528000	2640	CP-OFDM QPSK	1@271	22.08	21.82	24.96	24.10	0.2570
41	30	100	528000	2640	CP-OFDM 16 QAM	137@68	21.29	20.95	24.13	23.27	0.2123
41	30	100	528000	2640	CP-OFDM 16 QAM	1@1	20.54	20.48	23.52	22.66	0.1845
41	30	100	528000	2640	CP-OFDM 16 QAM	1@271	21.35	21.29	24.33	23.47	0.2223
41	30	100	528000	2640	CP-OFDM 64 QAM	137@68	19.84	19.42	22.65	21.79	0.1510
41	30	100	528000	2640	CP-OFDM 64 QAM	1@1	19.19	19	22.11	21.25	0.1334
41	30	100	528000	2640	CP-OFDM 64 QAM	1@271	19.87	19.71	22.80	21.94	0.1563
41	30	100	528000	2640	CP-OFDM 256 QAM	137@68	16.8	16.48	19.65	18.79	0.0757
41	30	100	528000	2640	CP-OFDM 256 QAM	1@1	16.48	15.86	19.19	18.33	0.0681
41	30	100	528000	2640	CP-OFDM 256 QAM	1@271	17.16	16.59	19.89	19.03	0.0800

Note: MIMO ANT Gain =-0.86dB



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

EN-DC_5A_n41A / LTE 10MHz + NR 100MHz / QPSK (ANT0+3)									
Channel	Frequency ( MHz )	ERP/EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
NR n41 Lowest	4994.80	-57.54	-25	-32.54	-81.19	-63.10	7.12	12.68	H
	7492.20	-54.64	-25	-29.64	-81.64	-57.97	8.26	11.59	H
	9989.60	-53.00	-25	-28.00	-83.79	-54.53	10.45	11.98	H
	4994.80	-55.88	-25	-30.88	-81.21	-61.44	7.12	12.68	V
	7492.20	-52.46	-25	-27.46	-79.45	-55.79	8.26	11.59	V
	9989.60	-52.38	-25	-27.38	-83.75	-53.91	10.45	11.98	V
LTE Band5 Lowest	1664	-65.90	-13	-52.90	-78.10	-69.15	4.00	9.40	H
	3328	-59.68	-13	-46.68	-80.93	-64.61	5.50	12.58	H
	4160	-59.11	-13	-46.11	-81.07	-63.58	5.98	12.60	H
	1664	-64.02	-13	-51.02	-76.89	-67.27	4.00	9.40	V
	3328	-57.68	-13	-44.68	-79.43	-62.61	5.50	12.58	V
	4160	-56.62	-13	-43.62	-80.98	-61.09	5.98	12.60	V
NR n41 Middle	5089.00	-52.39	-25	-27.39	-76.67	-57.95	7.14	12.70	H
	7633.50	-51.83	-25	-26.83	-78.37	-55.13	8.30	11.60	H
	10178.00	-52.48	-25	-27.48	-83.50	-54.00	10.48	12.00	H
	5089.00	-54.07	-25	-29.07	-79.33	-59.63	7.14	12.70	V
	7633.50	-46.38	-25	-21.38	-73.6	-49.68	8.30	11.60	V
	10178.00	-51.18	-25	-26.18	-83.42	-52.70	10.48	12.00	V
LTE Band5 Middle	1673	-65.71	-13	-52.71	-77.97	-68.96	4.00	9.40	H
	2509.5	-59.28	-13	-46.28	-78.78	-62.85	4.88	10.60	H
	3346	-59.85	-13	-46.85	-81.19	-64.78	5.52	12.60	H
	1673	-63.60	-13	-50.60	-76.57	-66.85	4.00	9.40	V
	2509.5	-56.12	-13	-43.12	-75.83	-59.69	4.88	10.60	V
	3346	-57.86	-13	-44.86	-79.50	-62.79	5.52	12.60	V
NR n41 Highest	5182.80	-52.87	-25	-27.87	-77.63	-58.43	7.16	12.72	H
	7774.20	-54.42	-25	-29.42	-80.61	-57.72	8.33	11.63	H
	10365.60	-52.01	-25	-27.01	-83.25	-53.61	10.50	12.10	H
	5182.80	-56.12	-25	-31.12	-81.27	-61.68	7.16	12.72	V
	7774.20	-45.41	-25	-20.41	-75.03	-48.71	8.33	11.63	V
	10365.60	-50.23	-25	-25.23	-83.33	-51.83	10.50	12.10	V
LTE Band5 Highest	1673	-65.72	-13	-52.72	-77.98	-68.97	4.00	9.40	H
	2509.5	-60.08	-13	-47.08	-79.58	-63.65	4.88	10.60	H
	3346	-59.88	-13	-46.88	-81.22	-64.81	5.52	12.60	H
	1673	-63.41	-13	-50.41	-76.38	-66.66	4.00	9.40	V
	2509.5	-58.36	-13	-45.36	-78.07	-61.93	4.88	10.60	V
	3346	-57.98	-13	-44.98	-79.62	-62.91	5.52	12.60	V

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



EN-DC_41A_n77A / LTE 20MHz + NR 100MHz / QPSK (ANT0+2)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7404	-61.82	-13	-48.82	-72.03	3.03	13.24	H
	11106	-59.06	-13	-46.06	-68.51	3.56	13.01	H
	14820	-58.77	-13	-45.77	-68.29	3.92	13.44	H
	7404	-62.03	-13	-49.03	-72.24	3.03	13.24	V
	11106	-59.11	-13	-46.11	-68.56	3.56	13.01	V
	14820	-59.03	-13	-46.03	-68.55	3.92	13.44	V
Middle	7584	-54.50	-13	-41.50	-64.71	3.03	13.24	H
	11376	-54.16	-13	-41.16	-63.61	3.56	13.01	H
	15180	-58.37	-13	-45.37	-67.89	3.92	13.44	H
	7584	-53.38	-13	-40.38	-63.59	3.03	13.24	V
	11376	-50.56	-13	-37.56	-60.01	3.56	13.01	V
	15180	-58.47	-13	-45.47	-67.99	3.92	13.44	V
Highest	7764	-61.11	-13	-48.11	-71.32	3.03	13.24	H
	11652	-60.25	-13	-47.25	-69.70	3.56	13.01	H
	15540	-58.79	-13	-45.79	-68.31	3.92	13.44	H
	7764	-57.88	-13	-44.88	-68.09	3.03	13.24	V
	11652	-60.48	-13	-47.48	-69.93	3.56	13.01	V
	15540	-58.74	-13	-45.74	-68.26	3.92	13.44	V

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