TEST REPORT

DT&C Co., Ltd.
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Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2010-0321

2. Customer

- Name (FCC) : Point Mobile Co., LTD. / Name (IC) : POINTMOBILE CO.,LTD
- Address (FCC) : B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709
  Address (IC) : B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)

3. Use of Report : FCC & IC Certification

4. Product Name / Model Name : Mobile POS terminal / PM500
   FCC ID : V2X-PM500
   IC : 10664A-PM500

5. FCC Regulation(s): Part 22, 24, 27
   IC Standard(s): RSS-130 Issue 2, 132 Issue 3, 133 Issue 6, 139 Issue 3, 199 Issue 3
   Test Method Used : KDB971168 D01v03, ANSI/TIA-603-E-2016, ANSI C63.26-2015

6. Date of Test : 2020.09.07 ~ 2020.09.22

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : Refer to appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by Name : JungWoo Kim (Signature)	Reviewed by Name : JaeJin Lee (Signature)

2020 . 10 . 22 .

DT&C Co., Ltd.

Unconnected with KS Q ISO / IEC 17025 and KOLAS accreditation.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2010-0321	Oct. 22, 2020	Initial issue	JungWoo Kim	JaeJin Lee

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1. GENERAL INFORMATION

Applicant Name(FCC)	:	Point Mobile Co., LTD.
Applicant Name(IC)	:	POINTMOBILE CO.,LTD
Address(FCC)	:	B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709
Address(IC)	:	B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)
FCC Classification	:	PCS Licensed Transmitter (PCB)
FCC ID	:	V2X-PM500
IC	:	10664A-PM500
Product Name	:	Mobile POS terminal
Model Name	:	PM500
Add Model Name	:	-
Hardware Version	:	MP
Software Version	:	50.00
Serial Number	:	Radiated (2021210045)
Supplying power	:	DC 7.6 V
Antenna Type	:	FPCB Antenna

Mode	TX Frequency (MHz)	Modulation	ERP(FCC&IC)		EIRP	
			Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 12	704 ~ 711	QPSK	22.02	0.159	-	-
LTE Band 12	704 ~ 711	16QAM	20.99	0.126	-	-
LTE Band 12	701.5 ~ 713.5	QPSK	21.81	0.152	-	-
LTE Band 12	701.5 ~ 713.5	16QAM	20.78	0.120	-	-
LTE Band 12	700.5 ~ 714.5	QPSK	21.78	0.151	-	-
LTE Band 12	700.5 ~ 714.5	16QAM	20.82	0.121	-	-
LTE Band 12	699.7 ~ 715.3	QPSK	21.91	0.155	-	-
LTE Band 12	699.7 ~ 715.3	16QAM	20.78	0.120	-	-
LTE Band 13	782 ~ 782	QPSK	20.20	0.105	-	-
LTE Band 13	782 ~ 782	16QAM	19.13	0.082	-	-
LTE Band 13	779.5 ~ 784.5	QPSK	20.46	0.111	-	-
LTE Band 13	779.5 ~ 784.5	16QAM	19.47	0.089	-	-

Mode	TX Frequency (MHz)	Modulation	ERP(For the FCC)		EIRP(For the IC)	
			Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 26	831.5 ~ 841.5	QPSK	22.42	0.175	24.57	0.286
LTE Band 26	831.5 ~ 841.5	16QAM	21.54	0.143	23.69	0.234
LTE Band 26(5)	829 ~ 844	QPSK	22.57	0.181	24.72	0.296
LTE Band 26(5)	829 ~ 844	16QAM	21.56	0.143	23.71	0.235
LTE Band 26(5)	826.5 ~ 846.5	QPSK	22.01	0.159	24.16	0.261
LTE Band 26(5)	826.5 ~ 846.5	16QAM	20.95	0.124	23.10	0.204
LTE Band 26(5)	825.5 ~ 847.5	QPSK	22.15	0.164	24.30	0.269
LTE Band 26(5)	825.5 ~ 847.5	16QAM	21.30	0.135	23.45	0.221
LTE Band 26(5)	824.7 ~ 848.3	QPSK	21.93	0.156	24.08	0.256
LTE Band 26(5)	824.7 ~ 848.3	16QAM	21.09	0.129	23.24	0.211

Mode	TX Frequency (MHz)	Modulation	EIRP(FCC & IC)	
			Max power(dBm)	Max power(W)
LTE Band 4	1 720 ~ 1 745	QPSK	26.95	0.495
LTE Band 4	1 720 ~ 1 745	16QAM	25.99	0.397
LTE Band 4	1 717.5 ~ 1 747.5	QPSK	26.58	0.455
LTE Band 4	1 717.5 ~ 1 747.5	16QAM	25.71	0.372
LTE Band 4	1 715 ~ 1 750	QPSK	27.50	0.562
LTE Band 4	1 715 ~ 1 750	16QAM	26.49	0.446
LTE Band 4	1 712.5 ~ 1752.5	QPSK	27.30	0.537
LTE Band 4	1 712.5 ~ 1 752.5	16QAM	26.52	0.449
LTE Band 4	1 711.5 ~ 1 753.5	QPSK	26.95	0.495
LTE Band 4	1 711.5 ~ 1 753.5	16QAM	26.14	0.411
LTE Band 4	1 710.7 ~ 1 754.3	QPSK	26.71	0.469
LTE Band 4	1 710.7 ~ 1 754.3	16QAM	25.91	0.390
LTE Band 25(2)	1 860 ~ 1 905	QPSK	27.55	0.569
LTE Band 25(2)	1 860 ~ 1 905	16QAM	26.66	0.463
LTE Band 25(2)	1 857.5 ~ 1 907.5	QPSK	27.44	0.555
LTE Band 25(2)	1 857.5 ~ 1 907.5	16QAM	26.74	0.472
LTE Band 25(2)	1 855 ~ 1 910	QPSK	27.36	0.545
LTE Band 25(2)	1 855 ~ 1 910	16QAM	26.62	0.459
LTE Band 25(2)	1 852.5 ~ 1 912.5	QPSK	26.83	0.482
LTE Band 25(2)	1 852.5 ~ 1 912.5	16QAM	25.76	0.377
LTE Band 25(2)	1 851.5 ~ 1 913.5	QPSK	26.97	0.498
LTE Band 25(2)	1 851.5 ~ 1 913.5	16QAM	26.03	0.401
LTE Band 25(2)	1 850.7 ~ 1 914.3	QPSK	26.80	0.479
LTE Band 25(2)	1 850.7 ~ 1 914.3	16QAM	25.63	0.366

Mode	TX Frequency (MHz)	Modulation	EIRP(FCC & IC)	
			Max power(dBm)	Max power(W)
LTE Band 7	2 510 ~ 2 560	QPSK	26.14	0.411
LTE Band 7	2 510 ~ 2 560	16QAM	25.40	0.347
LTE Band 7	2 507.5 ~ 2 562.5	QPSK	25.79	0.379
LTE Band 7	2 507.5 ~ 2 562.5	16QAM	24.84	0.305
LTE Band 7	2 505 ~ 2 565	QPSK	25.55	0.359
LTE Band 7	2 505 ~ 2 565	16QAM	24.63	0.290
LTE Band 7	2 502.5 ~ 2 567.5	QPSK	25.58	0.361
LTE Band 7	2 502.5 ~ 2 567.5	16QAM	24.71	0.296

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2. INTRODUCTION

2.1 EUT DESCRIPTION

This EUT contains the following capabilities:
850/1900 GPRS/EDGE, 850/1700/1900 WCDMA/HSUPA, Multi-band LTE, Bluetooth, WLAN and NFC.

2.2 TESTING ENVIRONMENT

Ambient Condition	
▪ Temperature	+22 ℃ ~ +26 ℃
▪ Relative Humidity	38 % ~ 44 %

2.3 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014. All measurement uncertainty values are shown with a coverage factor of *k* = 2 to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Radiated Disturbance (Below 1 GHz)	4.9 dB (The confidence level is about 95 %, k = 2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.1 dB (The confidence level is about 95 %, k = 2)
Radiated Disturbance (Above 18 GHz)	5.3 dB (The confidence level is about 95 %, k = 2)

2.5 TEST FACILITY

DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.
The test site complies with the requirements of § 2.948 according to ANSI 63.4-2014.

- FCC & IC MRA Designation No. : KR0034
- ISED #: 5740A

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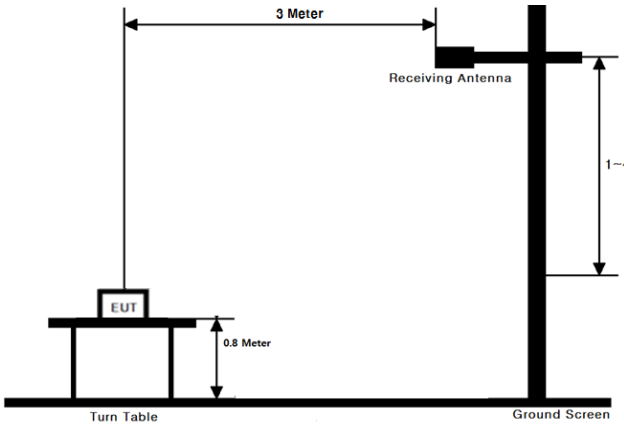
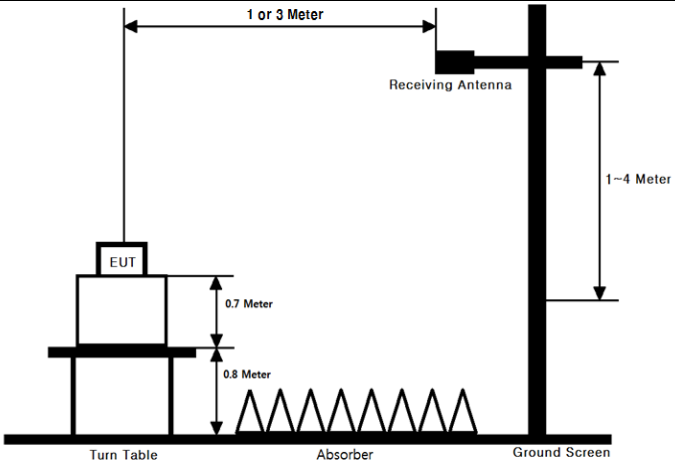
3. DESCRIPTION OF TESTS

3.1 ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Set-up

Below 1 GHz	Above 1 GHz
	

These measurements were performed at 3 m test site. The equipment under test is placed on a non-conductive table 0.8 meter or 1.5 meter above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- **ANSI/TIA-603-E-2016 - Section 2.2.17**
- **KDB971168 D01v03 - Section 5.2.2**
- **ANSI C63.26-2015 – Section 5.2.4.4.1**

<u>Test setting</u>

1. Set span to 2 x to 3 x the OBW.
2. Set RBW = 1 % to 5 % of the OBW.
3. Set VBW ≥ 3 x RBW.
4. Set number of points in sweep ≥ 2 × span / RBW.
5. Sweep time:
   1) Set = auto-couple, or
   2) Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
6. Detector = power averaging (rms).
7. If the EUT can be configured to transmit continuously, then set the trigger to free run.
8. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
9. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.

10. Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

The receiver antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminal of the substitute antenna is measured.

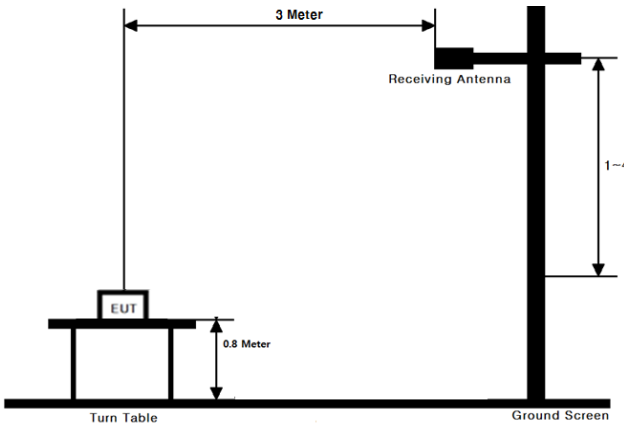
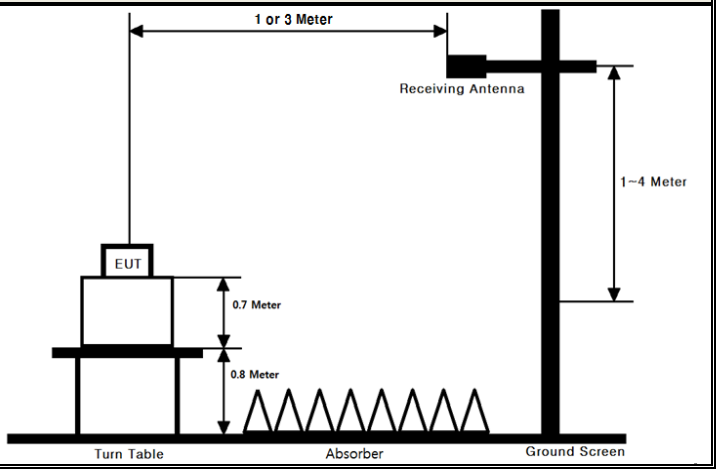
The ERP/EIRP is calculated using the following formula:

ERP/EIRP = The conducted power at the substitute antenna`s terminal [dBm] + Substitute Antenna gain [dBd for ERP , dBi for EIRP]

For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference
Between the gain of the horn antenna and an isotropic antenna are taken into consideration.

3.2 UNDESIRABLE EMISSIONS

Test Set-up

Below 1 GHz	Above 1 GHz
	

These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 meter or 1.5 meter above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- **ANSI/TIA-603-E-2016 - Section 2.2.12**
- **KDB971168 D01v03 - Section 5.8**
- **ANSI C63.26-2015 – Section 5.5**

<u>Test setting</u>

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW ≥ 3 X RBW
2. Detector = RMS & Trace mode = Max hold
3. Sweep time = Auto couple
4. Number of sweep point ≥ 2 X span / RBW
5. The trace was allowed to stabilize

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

For radiated power measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated power measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

This measurement was performed with the EUT oriented in 3 orthogonal axis.

4. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal. Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	20/06/24	21/06/24	US47360812
Spectrum Analyzer	Agilent Technologies	N9030A	19/12/16	20/12/16	MY53310140
Multimeter	FLUKE	17B+	19/12/16	20/12/16	36390701WS
Radio Communication Analyzer	Anritus	MT8820C	19/12/16	20/12/16	6201274516
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-2
Signal Generator	Rohde Schwarz	SMBV100A	19/12/16	20/12/16	255571
Signal Generator	ANRITSU	MG3695C	19/12/16	20/12/16	173501
Loop Antenna	ETS-Lindgren	6502	19/09/18	21/09/18	00226186
Bilog Antenna	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Dipole Antenna	A.H.Systems Inc.	FCC-4	19/03/26	21/03/26	710A
Dipole Antenna	Schwarzbeck	UHA9105	20/04/10	22/04/10	2262
HORN ANT	ETS	3117	20/04/24	21/04/24	00140394
HORN ANT	ETS	3117	20/03/26	21/03/26	00152145
HORN ANT	A.H.Systems	SAS-574	20/06/24	21/06/24	154
HORN ANT	A.H.Systems	SAS-574	20/06/24	21/06/24	155
Amplifier	EMPOWER	BBS3Q7ELU	20/06/24	21/06/24	1020
PreAmplifier	H.P	8447D	19/12/16	20/12/16	2944A07774
PreAmplifier	RFBAY.Inc	MPA-40-40	19/12/16	20/12/16	21151801
PreAmplifier	Agilent	8449B	20/06/24	21/06/24	3008A02108
PreAmplifier	A.H.Systems Inc.	PAM-1840VH	20/06/24	21/06/24	163
High-pass filter	Wainwright	WHKX12-935-1000-15000-40SS	20/06/24	21/06/24	7
High-pass filter	Wainwright	WHKX10-2838-3300-18000-60SS	20/06/24	21/06/24	2
Cable	DTNC	Cable	20/01/16	21/01/16	M-01
Cable	DTNC	Cable	20/01/16	21/01/16	M-04
Cable	Junkosha	MWX315	20/01/16	21/01/16	M-05
Cable	Junkosha	MWX221	20/01/16	21/01/16	M-06

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.
Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Status Note 1
2.1046	-	Conducted Output Power	N/A	Conducted	NA Note 2
2.1049	RSS-GEN[6.7]	Occupied Bandwidth	N/A		NA Note 2
24.232(d) 27.50(d.5)	RSS-130 [4.6] RSS-132 [5.4] RSS-133 [6.4] RSS-139 [6.5] RSS-199 [4.4]	Peak to Average Ratio	< 13 dB		NA Note 2
2.1051 22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	RSS-130 [4.7] RSS-132 [5.5] RSS-133 [6.5] RSS-139 [6.6]	Band Edge / Conducted Spurious Emissions	> 43 + 10log$_{10}$ (P) dB at Band edge and for all out-of-band emissions		NA Note 2
27.53(m)	RSS-199 [4.5]	Band Edge / Conducted Spurious Emissions	> 40 + 10log10 (P) dB at channel edge and 5 MHz from the channel edge > 43 + 10log10 (P) dB at 5 MHz and X MHz from the channel edge > 55 + 10log10 (P) dB at all frequencies more than X MHz from the channel edge		NA Note 2
27.53(c.4)	RSS-130 [4.7.2]	Undesirable emissions in 763 ~ 775MHz & 793 ~ 806MHz	>65 + 10 log (P) dB in a 6.25 kHz band segment frequencies between 763-775 MHz and 793-805 MHz		NA Note 2
2.1055 22.355 24.235 27.54	RSS-130 [4.5] RSS-132 [5.3] RSS-133 [6.3] RSS-139 [6.4] RSS-199 [4.3]	Frequency Stability	< 2.5 ppm (Part 22) or Fundamental emissions must stay within Authorized frequency block (Part 24, 27)		NA Note 2
27.50(b.10) 27.50(c.10)	RSS-130 [4.6]	Radiated Output Power (B12, 13)	< 3 Watts max. ERP (FCC & IC)	Radiated	C
22.913(a.5)	RSS-132 [5.4]	Radiated Output Power (B26, B5)	< 7 Watts max. ERP (FCC) < 11.5 Watts max. EIRP (IC)		C
27.50(d.4)	RSS-139 [6.5]	Radiated Output Power (B4)	< 1 Watts max. EIRP (FCC & IC)		C
24.232(c) 27.50(h.2)	RSS-133 [6.4] RSS-199 [4.4]	Radiated Output Power (B25, 2, 7)	< 2 Watts max. EIRP (FCC & IC)		C
2.1053 22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	RSS-130 [4.7] RSS-132 [5.5] RSS-133 [6.5] RSS-139 [6.6]	Undesirable Emissions	> 43 + 10log$_{10}$ (P) dB for all out-of-band emissions		C
27.53(m)	RSS-199 [4.5]	Undesirable Emissions (B7)	> 55 + 10log$_{10}$ (P) dB for all out-of-band emissions		C
27.53(f)	RSS-130 [4.7.2]	Undesirable Emissions in 1559 ~ 1610 MHz	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions of less than 700 Hz bandwidth)		C

Note 1: **C**=Comply **NC**=Not Comply **NT**=Not Tested **NA**=Not Applicable
Note 2: These test items were not performed because this device uses the granted module.
(FCC ID : XMR201706SC20A, IC: 10224A-201707SC20A)
Please refer to the test report of the granted module

6. SAMPLE CALCULATION

A. For substitution method

1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3) During the test, the turn table is rotated until the maximum signal is found.
4) Record the field strength meter's level. (ex. Spectrum reading level is -8.5 dBm)
5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
6) Increase the signal generator output till the field strength meter's level is equal to the item (4). (ex. Signal generator level is -18.04 dBm)
7) The gain of the cable and amplifier between the signal generator and terminals of substituted antenna is 46.92 dB at test frequency.
8) Record the level at substituted antenna terminal. (ex. 28.88dBm)
9) The result is calculated as below;

EIRP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBi)
ERP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBd)
Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB

7. TEST DATA

7.1 OCCUPIED BANDWIDTH

- Not Applicable

7.2 PEAK TO AVERAGE RATIO

- Not Applicable

7.3 BAND EDEG EMISSIONS (Conducted)

- Not Applicable

7.4 SPURIOUS AND HARMONICS EMISSIONS (Conducted)

- Not Applicable

7.5 ERP & EIRP

- Test Notes

1) This is device was tested under all bandwidths, modulations and RB configurations and the worst case data are reported in the below table.

7.5.1 LTE Band 12

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBd)	ERP (dBm)	ERP (W)
10	704	QPSK	1/25	H	22.67	-0.65	22.02	0.159
		16QAM	1/25	H	21.50	-0.65	20.85	0.122
	711	QPSK	1/49	H	22.62	-0.63	21.99	0.158
		16QAM	1/49	H	21.62	-0.63	20.99	0.126
5	701.5	QPSK	1/0	H	21.94	-0.66	21.28	0.134
		16QAM	1/0	H	20.68	-0.66	20.02	0.100
	707.5	QPSK	1/0	H	22.36	-0.64	21.72	0.149
		16QAM	1/0	H	21.23	-0.64	20.59	0.115
	713.5	QPSK	1/0	H	22.43	-0.62	21.81	0.152
		16QAM	1/0	H	21.40	-0.62	20.78	0.120
3	700.5	QPSK	1/0	H	22.09	-0.66	21.43	0.139
		16QAM	1/0	H	20.97	-0.66	20.31	0.107
	707.5	QPSK	1/0	H	22.42	-0.64	21.78	0.151
		16QAM	1/0	H	21.46	-0.64	20.82	0.121
	714.5	QPSK	1/0	H	22.32	-0.62	21.70	0.148
		16QAM	1/0	H	21.10	-0.62	20.48	0.112
1.4	699.7	QPSK	1/0	H	22.30	-0.66	21.64	0.146
		16QAM	1/0	H	21.21	-0.66	20.55	0.114
	707.5	QPSK	1/0	H	22.55	-0.64	21.91	0.155
		16QAM	1/0	H	21.42	-0.64	20.78	0.120
	715.3	QPSK	1/0	H	22.25	-0.62	21.63	0.146
		16QAM	1/0	H	21.10	-0.62	20.48	0.112

7.5.2 LTE Band 13

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBd)	ERP (dBm)	ERP (W)
10	782	QPSK	1/25	H	20.65	-0.45	20.20	0.105
		16QAM	1/25	H	19.58	-0.45	19.13	0.082
5	779.5	QPSK	1/24	H	20.91	-0.45	20.46	0.111
		16QAM	1/24	H	19.81	-0.45	19.36	0.086
	784.5	QPSK	1/0	H	20.71	-0.44	20.27	0.106
		16QAM	1/0	H	19.91	-0.44	19.47	0.089

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7.5.3 LTE Band 26

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBd)	ERP (dBm)	ERP (W)
15	831.5	QPSK	1/0	H	23.11	-0.69	22.42	0.175
		16QAM	1/0	H	22.23	-0.69	21.54	0.143
	841.5	QPSK	1/0	H	22.34	-0.79	21.55	0.143
		16QAM	1/0	H	21.52	-0.79	20.73	0.118

7.5.4 LTE Band 26, 5

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBd)	ERP (dBm)	ERP (W)
10	829	QPSK	1/0	H	23.24	-0.67	22.57	0.181
		16QAM	1/0	H	22.23	-0.67	21.56	0.143
	836.5	QPSK	1/0	H	22.38	-0.74	21.64	0.146
		16QAM	1/0	H	21.08	-0.74	20.34	0.108
	844	QPSK	1/0	H	22.62	-0.81	21.81	0.152
		16QAM	1/0	H	21.79	-0.81	20.98	0.125
5	826.5	QPSK	1/0	H	22.66	-0.65	22.01	0.159
		16QAM	1/0	H	21.51	-0.65	20.86	0.122
	836.5	QPSK	1/0	H	22.11	-0.74	21.37	0.137
		16QAM	1/0	H	21.22	-0.74	20.48	0.112
	846.5	QPSK	1/0	H	22.65	-0.83	21.82	0.152
		16QAM	1/0	H	21.78	-0.83	20.95	0.124
3	825.5	QPSK	1/0	H	22.79	-0.64	22.15	0.164
		16QAM	1/0	H	21.94	-0.64	21.30	0.135
	836.5	QPSK	1/0	H	22.24	-0.74	21.50	0.141
		16QAM	1/0	H	21.36	-0.74	20.62	0.115
	847.5	QPSK	1/0	H	22.87	-0.84	22.03	0.160
		16QAM	1/0	H	22.03	-0.84	21.19	0.132
1.4	824.7	QPSK	1/0	H	22.56	-0.63	21.93	0.156
		16QAM	1/0	H	21.72	-0.63	21.09	0.129
	836.5	QPSK	1/0	H	22.14	-0.74	21.40	0.138
		16QAM	1/0	H	21.04	-0.74	20.30	0.107
	848.3	QPSK	1/0	H	22.76	-0.85	21.91	0.155
		16QAM	1/0	H	21.94	-0.85	21.09	0.129

7.5.5 LTE Band 4

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBi)	EIRP (dBm)	EIRP (W)
20	1 720	QPSK	1/99	H	21.30	5.28	26.58	0.455
		16QAM	1/99	H	20.11	5.28	25.39	0.346
	1 732.5	QPSK	1/99	H	21.62	5.33	26.95	0.495
		16QAM	1/99	H	20.66	5.33	25.99	0.397
	1 745	QPSK	1/99	H	20.90	5.38	26.28	0.425
		16QAM	1/99	H	20.02	5.38	25.40	0.347
15	1 717.5	QPSK	1/74	H	20.62	5.27	25.89	0.388
		16QAM	1/74	H	19.54	5.27	24.81	0.303
	1 732.5	QPSK	1/74	H	21.25	5.33	26.58	0.455
		16QAM	1/74	H	20.38	5.33	25.71	0.372
	1 747.5	QPSK	1/74	H	20.98	5.39	26.37	0.434
		16QAM	1/74	H	19.92	5.39	25.31	0.340
10	1 715	QPSK	1/0	H	20.75	5.26	26.01	0.399
		16QAM	1/0	H	19.71	5.26	24.97	0.314
	1 732.5	QPSK	1/0	H	22.17	5.33	27.50	0.562
		16QAM	1/0	H	21.16	5.33	26.49	0.446
	1 750	QPSK	1/0	H	21.55	5.40	26.95	0.495
		16QAM	1/0	H	20.69	5.40	26.09	0.406
5	1 712.5	QPSK	1/0	H	20.44	5.25	25.69	0.371
		16QAM	1/0	H	19.51	5.25	24.76	0.299
	1 732.5	QPSK	1/0	H	21.71	5.33	27.04	0.506
		16QAM	1/0	H	20.82	5.33	26.15	0.412
	1 752.5	QPSK	1/0	H	21.92	5.38	27.30	0.537
		16QAM	1/0	H	21.14	5.38	26.52	0.449
3	1 711.5	QPSK	1/0	H	20.16	5.25	25.41	0.348
		16QAM	1/0	H	19.30	5.25	24.55	0.285
	1 732.5	QPSK	1/0	H	21.53	5.33	26.86	0.485
		16QAM	1/0	H	20.63	5.33	25.96	0.394
	1 753.5	QPSK	1/0	H	21.58	5.37	26.95	0.495
		16QAM	1/0	H	20.77	5.37	26.14	0.411
1.4	1 710.7	QPSK	1/0	H	20.57	5.24	25.81	0.381
		16QAM	1/0	H	19.52	5.24	24.76	0.299
	1 732.5	QPSK	1/0	H	21.36	5.33	26.69	0.467
		16QAM	1/0	H	20.49	5.33	25.82	0.382
	1 754.3	QPSK	1/0	H	21.35	5.36	26.71	0.469
		16QAM	1/0	H	20.55	5.36	25.91	0.390

7.5.6 LTE Band 25, 2

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBi)	EIRP (dBm)	EIRP (W)
20	1 860	QPSK	1/0	H	22.01	4.80	26.81	0.480
		16QAM	1/0	H	21.08	4.80	25.88	0.387
	1 882.5	QPSK	1/0	H	22.84	4.58	27.42	0.552
		16QAM	1/0	H	21.63	4.58	26.21	0.418
	1 905	QPSK	1/0	H	23.13	4.42	27.55	0.569
		16QAM	1/0	H	22.24	4.42	26.66	0.463
15	1 857.5	QPSK	1/0	H	22.17	4.83	27.00	0.501
		16QAM	1/0	H	21.20	4.83	26.03	0.401
	1 882.5	QPSK	1/0	H	22.86	4.58	27.44	0.555
		16QAM	1/0	H	22.16	4.58	26.74	0.472
	1 907.5	QPSK	1/0	H	22.69	4.43	27.12	0.515
		16QAM	1/0	H	21.74	4.43	26.17	0.414
10	1 855	QPSK	1/0	H	21.94	4.85	26.79	0.478
		16QAM	1/0	H	21.03	4.85	25.88	0.387
	1 882.5	QPSK	1/0	H	22.78	4.58	27.36	0.545
		16QAM	1/0	H	22.04	4.58	26.62	0.459
	1 910	QPSK	1/0	H	22.68	4.44	27.12	0.515
		16QAM	1/0	H	21.63	4.44	26.07	0.405
5	1 852.5	QPSK	1/0	H	21.42	4.88	26.30	0.427
		16QAM	1/0	H	20.22	4.88	25.10	0.324
	1 882.5	QPSK	1/0	H	21.97	4.58	26.55	0.452
		16QAM	1/0	H	20.97	4.58	25.55	0.359
	1 912.5	QPSK	1/0	H	22.38	4.45	26.83	0.482
		16QAM	1/0	H	21.31	4.45	25.76	0.377
3	1 851.5	QPSK	1/0	H	21.63	4.89	26.52	0.449
		16QAM	1/0	H	20.52	4.89	25.41	0.348
	1 882.5	QPSK	1/0	H	22.16	4.58	26.74	0.472
		16QAM	1/0	H	21.29	4.58	25.87	0.386
	1 913.5	QPSK	1/0	H	22.52	4.45	26.97	0.498
		16QAM	1/0	H	21.58	4.45	26.03	0.401
1.4	1 850.7	QPSK	1/0	H	21.30	4.89	26.19	0.416
		16QAM	1/0	H	20.25	4.89	25.14	0.327
	1 882.5	QPSK	1/0	H	21.82	4.58	26.40	0.437
		16QAM	1/0	H	20.91	4.58	25.49	0.354
	1 914.3	QPSK	1/0	H	22.34	4.46	26.80	0.479
		16QAM	1/0	H	21.17	4.46	25.63	0.366

7.5.7 LTE Band 7

Channel Bandwidth (MHz)	Test Frequency (MHz)	Test Mode	RB Size/ Offset	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain (dBi)	EIRP (dBm)	EIRP (W)
20	2 510	QPSK	1/0	H	19.19	5.94	25.13	0.326
		16QAM	1/0	H	18.12	5.94	24.06	0.255
	2 535	QPSK	1/0	H	20.10	6.04	26.14	0.411
		16QAM	1/0	H	19.36	6.04	25.40	0.347
	2 560	QPSK	1/99	H	19.68	6.12	25.80	0.380
		16QAM	1/99	H	18.75	6.12	24.87	0.307
15	2 507.5	QPSK	1/0	H	19.20	5.93	25.13	0.326
		16QAM	1/0	H	18.30	5.93	24.23	0.265
	2 535	QPSK	1/0	H	19.75	6.04	25.79	0.379
		16QAM	1/0	H	18.72	6.04	24.76	0.299
	2 562.5	QPSK	1/74	H	19.58	6.13	25.71	0.372
		16QAM	1/74	H	18.71	6.13	24.84	0.305
10	2 505	QPSK	1/0	H	18.94	5.92	24.86	0.306
		16QAM	1/0	H	18.11	5.92	24.03	0.253
	2 535	QPSK	1/0	H	19.05	6.04	25.09	0.323
		16QAM	1/0	H	18.30	6.04	24.34	0.272
	2 565	QPSK	1/49	H	19.42	6.13	25.55	0.359
		16QAM	1/49	H	18.50	6.13	24.63	0.290
5	2 502.5	QPSK	1/0	H	19.62	5.91	25.53	0.357
		16QAM	1/0	H	18.74	5.91	24.65	0.292
	2 535	QPSK	1/0	H	19.54	6.04	25.58	0.361
		16QAM	1/0	H	18.67	6.04	24.71	0.296
	2 567.5	QPSK	1/24	H	19.03	6.14	25.17	0.329
		16QAM	1/24	H	17.91	6.14	24.05	0.254

7.6 UNDESIRABLE EMISSIONS (Radiated)

- Test Notes

1) This device was tested under all bandwidths, modulations and RB configurations and the worst case data are reported.
2) The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions.
3) Limit Calculation for Band 2/4/5/12/13/25/26 = 43 + 10 log10 (P[Watts])
4) Limit Calculation for Band 7 = 55 + 10 $\log_{10}$ (P[Watts])
5) Limit Calculation for 1 559 MHz ~ 1 610 MHz in Band 13 = −70 dBW/MHz (equivalent isotropically radiated power for wideband signals)

7.6.1 LTE Band 12

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBd)	Result		Limit (dBc)
								(dBm)	(dBc)	
10	704	1/25	QPSK	1 408.24	V	-45.65	2.48	-43.17	65.19	35.02
				2 112.36	V	-48.05	3.10	-44.95	66.97	
				2 816.36	V	-50.03	4.58	-45.45	67.47	
				3 520.65	V	-45.43	5.83	-39.60	61.62	
				4 224.79	V	-44.70	7.00	-37.70	59.72	
			16QAM	1 408.03	V	-45.01	2.48	-42.53	63.38	33.85
				2 112.51	V	-49.21	3.10	-46.11	66.96	
				2 816.38	V	-49.93	4.58	-45.35	66.20	
				3 520.41	V	-45.39	5.83	-39.56	60.41	
				4 224.50	V	-45.11	7.00	-38.11	58.96	
	711	1/49	QPSK	1 430.75	V	-48.31	2.57	-45.74	67.73	34.99
				2 146.02	V	-48.60	3.23	-45.37	67.36	
				2 861.81	V	-48.61	4.67	-43.94	65.93	
				3 576.94	V	-44.81	5.95	-38.86	60.85	
				4 292.61	V	-43.95	6.95	-37.00	58.99	
			16QAM	1 430.81	V	-48.46	2.57	-45.89	66.88	33.99
				2 146.17	V	-48.57	3.23	-45.34	66.33	
				2 861.60	V	-47.89	4.67	-43.22	64.21	
				3 577.32	V	-44.93	5.95	-38.98	59.97	
				4 292.65	V	-44.01	6.95	-37.06	58.05	

7.6.2 LTE Band 13

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBd)	Result		Limit (dBc)
								(dBm)	(dBc)	
10	782	1/25	QPSK	2 346.32	H	-49.01	3.64	-45.37	65.57	33.20
				3 118.03	V	-54.53	4.99	-49.54	69.74	
		1/25	16QAM	2 346.41	H	-48.66	3.64	-45.02	64.15	32.13
				3 139.98	V	-54.04	5.03	-49.01	68.14	
5	779.5	1/24	QPSK	2 344.93	H	-48.31	3.64	-44.67	65.13	33.46
				3 122.29	V	-54.63	4.99	-49.64	70.10	
		1/24	16QAM	2 345.07	H	-48.31	3.64	-44.67	64.03	32.36
				3 131.58	V	-54.73	5.01	-49.72	69.08	
	784.5	1/0	QPSK	2 347.14	H	-49.32	3.64	-45.68	65.95	33.27
				3 129.85	V	-54.42	5.01	-49.41	69.68	
		1/0	16QAM	2 347.11	H	-49.22	3.64	-45.58	65.05	32.47
				3 132.04	V	-54.53	5.01	-49.52	68.99	

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz (LTE Band 13)

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBi)	Result	Margin	Limit (dBm/ MHz)
								(dBm/ MHz)	(dB)	
10	782	1/25	QPSK	1 564.24	V	-49.46	6.41	-43.05	3.05	-40.00
		1/25	16QAM	1 564.25	V	-50.42	6.41	-44.01	4.01	
5	779.5	1/24	QPSK	1 563.30	V	-50.89	6.41	-44.48	4.48	
		1/24	16QAM	1 563.20	V	-51.09	6.41	-44.68	4.68	
	784.5	1/0	QPSK	1 564.75	V	-49.95	6.42	-43.53	3.53	
		1/0	16QAM	1 564.80	V	-50.27	6.42	-43.85	3.85	

7.6.3 LTE Band 26

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBd)	Result		Limit (dBc)
								(dBm)	(dBc)	
15	831.5	1/0	QPSK	1 649.79	V	-46.10	4.15	-41.95	64.37	35.42
				2 474.54	H	-49.67	3.60	-46.07	68.49	
				3 292.97	V	-54.08	5.24	-48.84	71.26	
			16QAM	1 649.58	V	-46.76	4.15	-42.61	64.15	34.54
				2 474.33	H	-51.96	3.60	-48.36	69.90	
				3 285.67	V	-54.69	5.22	-49.47	71.01	
	841.5	1/0	QPSK	1 669.85	V	-46.55	3.71	-42.84	64.39	34.55
				2 504.36	H	-48.91	3.77	-45.14	66.69	
				3 345.11	V	-54.78	5.43	-49.35	70.90	
			16QAM	1 669.94	V	-43.31	3.71	-39.60	60.33	33.73
				2 504.36	H	-49.26	3.77	-45.49	66.22	
				3 324.92	V	-55.07	5.35	-49.72	70.45	

7.6.3 LTE Band 26, 5

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBd)	Result		Limit (dBc)
								(dBm)	(dBc)	
10	829	1/0	QPSK	1 649.08	V	-46.41	4.16	-42.25	64.82	35.57
				2 473.65	H	-50.51	3.59	-46.92	69.49	
				3 288.54	V	-54.61	5.23	-49.38	71.95	
			16QAM	1 649.31	V	-46.51	4.16	-42.35	63.91	34.56
				2 473.98	H	-50.37	3.59	-46.78	68.34	
				3 287.26	V	-54.80	5.22	-49.58	71.14	
	836.5	1/0	QPSK	1 664.02	V	-45.57	3.84	-41.73	63.37	34.64
				2 496.21	H	-48.47	3.73	-44.74	66.38	
				3 328.67	V	-53.70	5.36	-48.34	69.98	
			16QAM	1 664.39	V	-45.85	3.83	-42.02	62.36	33.34
				2 496.30	H	-47.49	3.73	-43.76	64.10	
				3 335.59	V	-54.57	5.39	-49.18	69.52	
	844	1/0	QPSK	1 678.79	V	-39.90	3.52	-36.38	58.19	34.81
				2 518.98	H	-49.91	3.83	-46.08	67.89	
				3 357.87	V	-54.97	5.47	-49.50	71.31	
			16QAM	1 679.11	V	-48.28	3.51	-44.77	65.75	33.98
				2 518.48	H	-50.89	3.82	-47.07	68.05	
				3 368.02	V	-55.22	5.49	-49.73	70.71	

7.6.4 LTE Band 4

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBi)	Result		Limit (dBc)
								(dBm)	(dBc)	
20	1 720	1/99	QPSK	3 458.09	V	-48.92	7.82	-41.10	67.68	39.58
				5 186.61	H	-53.69	10.37	-43.32	69.90	
			16QAM	3 457.93	V	-48.74	7.82	-40.92	66.31	38.39
				5 187.41	H	-52.73	10.37	-42.36	67.75	
	1 732.5	1/99	QPSK	3 482.79	V	-47.20	7.87	-39.33	66.28	39.95
				5 208.91	H	-53.36	10.38	-42.98	69.93	
			16QAM	3 482.67	V	-47.34	7.87	-39.47	65.46	38.99
				5 206.74	H	-53.89	10.39	-43.50	69.49	
	1 745	1/99	QPSK	3 507.93	V	-47.43	7.93	-39.50	65.78	39.28
				5 242.97	H	-53.86	10.31	-43.55	69.83	
			16QAM	3 507.73	V	-47.98	7.93	-40.05	65.45	38.40
				5 261.83	H	-53.16	10.32	-42.84	68.24	
10	1 715	1/0	QPSK	3 421.05	V	-50.77	7.74	-43.03	69.04	39.01
				5 131.84	H	-53.10	10.30	-42.80	68.81	
			16QAM	3 421.27	V	-51.92	7.74	-44.18	69.15	37.97
				5 132.05	H	-52.80	10.30	-42.50	67.47	
	1 732.5	1/0	QPSK	3 456.22	V	-48.56	7.81	-40.75	68.25	40.50
				5 184.17	H	-52.44	10.37	-42.07	69.57	
			16QAM	3 456.23	V	-48.97	7.81	-41.16	67.65	39.49
				5 183.23	H	-53.59	10.37	-43.22	69.71	
	1 750	1/0	QPSK	3 491.07	V	-48.68	7.88	-40.80	67.75	39.95
				5 236.86	H	-52.57	10.33	-42.24	69.19	
			16QAM	3 491.12	V	-48.78	7.88	-40.90	66.99	39.09
				5 236.63	H	-52.43	10.33	-42.10	68.19	

7.6.5 LTE Band 25, 2

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBi)	Result		Limit (dBc)
								(dBm)	(dBc)	
20	1 860	1/0	QPSK	3 702.31	H	-51.33	8.30	-43.03	69.84	39.81
				5 553.11	H	-50.28	10.52	-39.76	66.57	
				7 419.70	V	-50.62	12.00	-38.62	65.43	
			16QAM	3 702.23	H	-51.60	8.30	-43.30	69.18	38.88
				5 553.45	H	-52.06	10.52	-41.54	67.42	
				7 404.12	V	-50.69	12.00	-38.69	64.57	
	1 882.5	1/0	QPSK	3 747.04	H	-52.10	8.39	-43.71	71.13	40.42
				5 620.75	H	-50.12	10.76	-39.36	66.78	
				7 494.65	V	-50.35	12.09	-38.26	65.68	
			16QAM	3 747.20	H	-53.63	8.39	-45.24	71.45	39.21
				5 620.48	H	-50.16	10.76	-39.40	65.61	
				7 476.87	V	-50.86	12.05	-38.81	65.02	
	1 905	1/0	QPSK	3 791.89	H	-52.02	8.48	-43.54	71.09	40.55
				5 688.34	H	-49.11	10.62	-38.49	66.04	
				7 573.54	V	-50.79	12.20	-38.59	66.14	
			16QAM	3 792.14	H	-51.23	8.48	-42.75	69.41	39.66
				5 688.25	H	-49.80	10.62	-39.18	65.84	
				7 566.61	V	-50.52	12.20	-38.32	64.98	

7.6.7 LTE Band 7

B.W (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level(dBm) @ Ant Terminal	TX Ant Gain(dBi)	Result		Limit (dBc)
								(dBm)	(dBc)	
20	2 510	1/0	QPSK	4 980.91	V	-53.93	10.12	-43.81	68.94	50.13
				7 503.38	H	-46.58	12.11	-34.47	59.60	
				10 009.42	H	-47.32	13.10	-34.22	59.35	
			16QAM	5 019.89	V	-53.96	10.24	-43.72	67.78	49.06
				7 503.30	H	-46.63	12.11	-34.52	58.58	
				10 002.94	H	-47.03	13.10	-33.93	57.99	
	2 535	1/0	QPSK	5 063.55	V	-54.63	10.30	-44.33	70.47	51.14
				7 578.44	H	-45.57	12.20	-33.37	59.51	
				10 092.06	H	-46.70	13.10	-33.60	59.74	
			16QAM	5 056.97	V	-54.51	10.30	-44.21	69.61	50.40
				7 578.29	H	-45.36	12.20	-33.16	58.56	
				10 078.10	H	-47.12	13.10	-34.02	59.42	
	2 560	1/99	QPSK	5 160.06	V	-53.44	10.32	-43.12	68.92	50.80
				7 706.74	H	-48.35	12.21	-36.14	61.94	
				10 295.69	H	-46.22	13.09	-33.13	58.93	
			16QAM	5 147.98	V	-52.97	10.30	-42.67	67.54	49.87
				7 706.75	H	-48.19	12.21	-35.98	60.85	
				10 297.39	H	-46.07	13.09	-32.98	57.85	