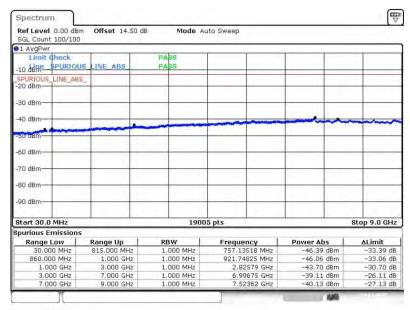


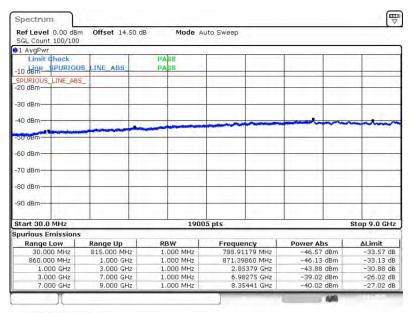
Band: LTE Band 5 Channel: CH20525 (Middle) 3MHz **Band Width:**

QPSK (RB Size 1, RB Offset 0)



Date: 4, JAN, 2015 18:17:30

16QAM (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 18:18:49

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003

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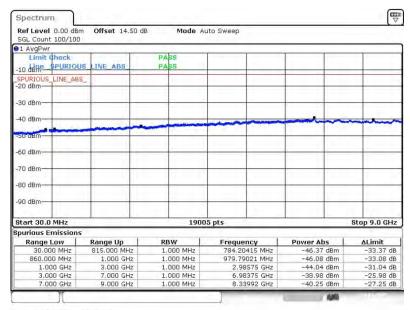
: Rev. 01



Band: LTE Band 5 Channel: CH20635 (High)

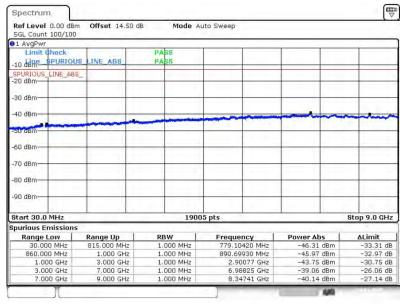
Band Width: 3MHz

QPSK (RB Size 1, RB Offset 0)



Date: 4, JAN, 2015 18:26:51

16QAM (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 18:28:10

SPORTON INTERNATIONAL (SHENZHEN) INC.

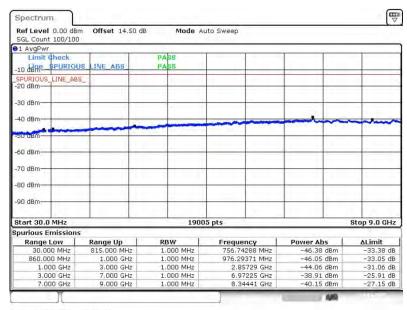
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 342 of 442
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 Band :
 LTE Band 5
 Channel :
 CH20425 (Low)

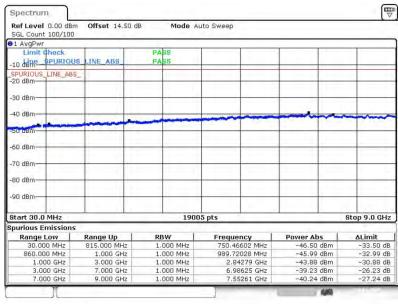
 Band Width :
 5MHz

QPSK (RB Size 1, RB Offset 24)



Date: 4, JAN, 2015 18:36:12

16QAM (RB Size 1, RB Offset 24)



Date: 4,JAN,2015 18:37:31

SPORTON INTERNATIONAL (SHENZHEN) INC.

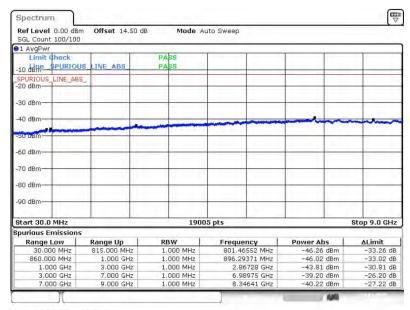
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 343 of 442
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 Band :
 LTE Band 5
 Channel :
 CH20525 (Middle)

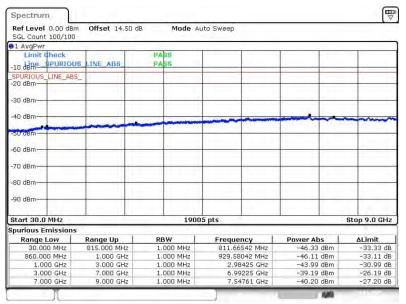
 Band Width :
 5MHz

QPSK (RB Size 1, RB Offset 12)



Date: 4, JAN, 2015 18:39:35

16QAM (RB Size 1, RB Offset 24)



Date: 4,JAN,2015 18:40:55

SPORTON INTERNATIONAL (SHENZHEN) INC.

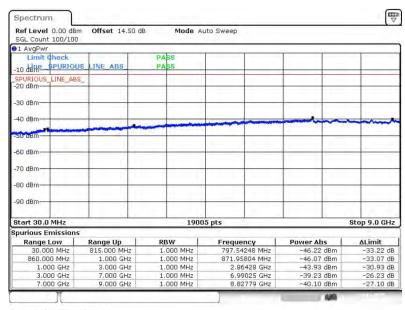
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 344 of 442
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Band: LTE Band 5 Channel: CH20625 (High)

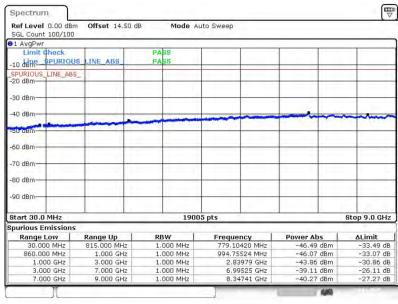
Band Width: 5MHz

QPSK (RB Size 1, RB Offset 24)



Date: 4, JAN, 2015 18:48:56

16QAM (RB Size 1, RB Offset 24)



Date: 4,JAN,2015 18:50:15

SPORTON INTERNATIONAL (SHENZHEN) INC.

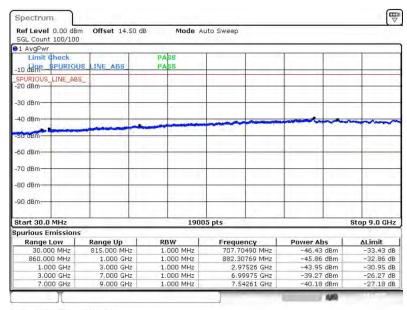
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 345 of 442
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 Band :
 LTE Band 5
 Channel :
 CH20450 (Low)

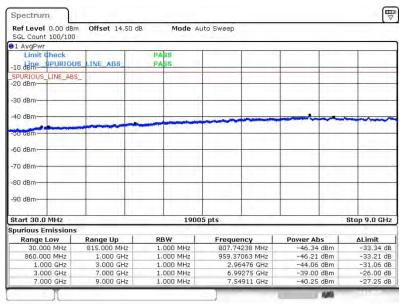
 Band Width :
 10MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4, JAN, 2015 18:58:17

16QAM (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 18:59:36

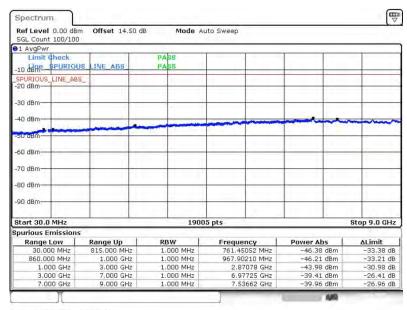
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 346 of 442
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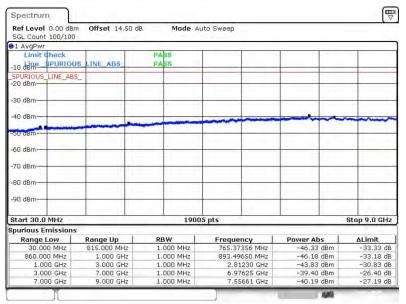
Band: LTE Band 5 Channel: CH20525 (Middle) 10MHz **Band Width:**

QPSK (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 19:01:41

16QAM (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 19:03:00

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003

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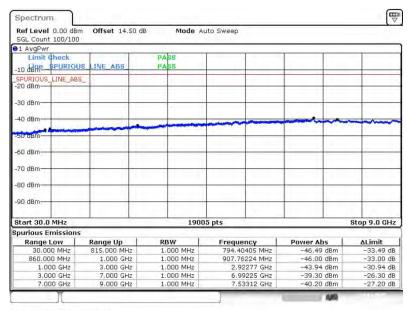
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 Band :
 LTE Band 5
 Channel :
 CH20600 (High)

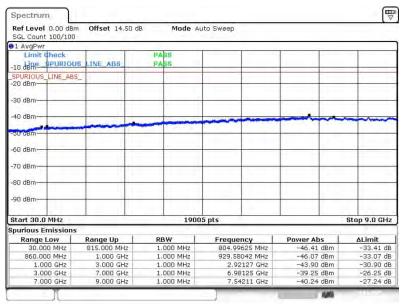
 Band Width :
 10MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4, JAN, 2015 19:11:01

16QAM (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 19:12:21

SPORTON INTERNATIONAL (SHENZHEN) INC.

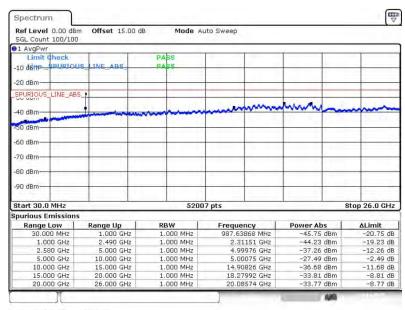
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 348 of 442
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 Band :
 LTE Band 7
 Channel :
 CH20775 (Low)

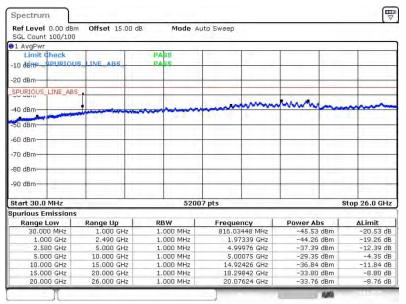
 Band Width :
 5MHz

QPSK (RB Size 1, RB Offset 12)



Date: 4,JAN,2015 10:56:01

16QAM(RB Size 1, RB Offset 12)



Date: 4,JAN,2015 10:57:22

SPORTON INTERNATIONAL (SHENZHEN) INC.

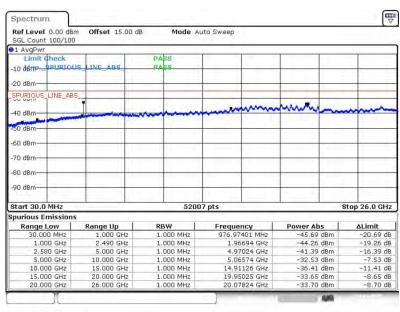
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 349 of 442
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Band: LTE Band 7 Channel: CH21100 (Middle)

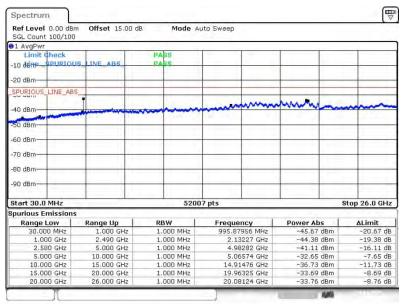
Band Width: 5MHz

QPSK (RB Size 1, RB Offset 24)



Date: 4,JAN,2015 10:59:28

16QAM (RB Size 1, RB Offset 24)



Date: 4,JAN,2015 11:00:48

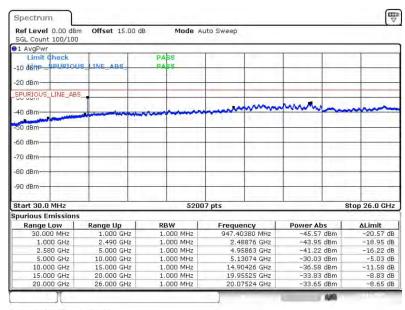
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 350 of 442
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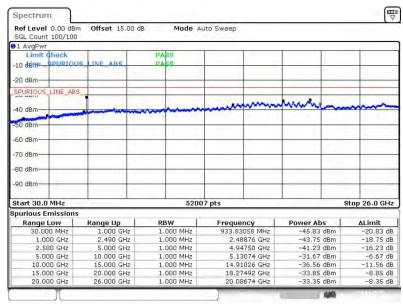
Band: LTE Band 7 Channel: CH21425 (High)
Band Width: 5MHz

QPSK (RB Size 1, RB Offset 0)



Date: 4, JAN, 2015 11:06:11

16QAM (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 11:07:31

SPORTON INTERNATIONAL (SHENZHEN) INC.

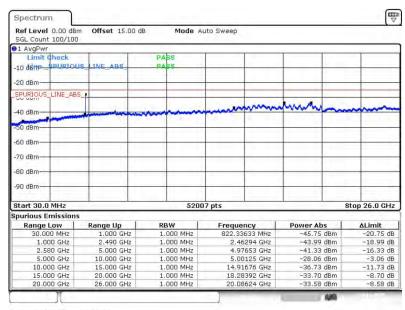
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 351 of 442
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 Band :
 LTE Band 7
 Channel :
 CH20800 (Low)

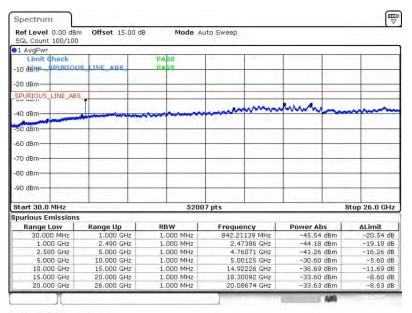
 Band Width :
 10MHz

QPSK (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 11:13:16

16QAM (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 11:14:36

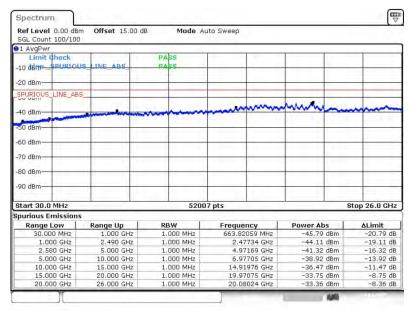
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 352 of 442
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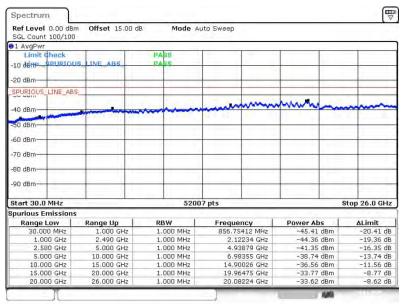
Band :LTE Band 7Channel :CH21100 (Middle)Band Width :10MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4, JAN, 2015 11:16:41

16QAM (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 11:18:01

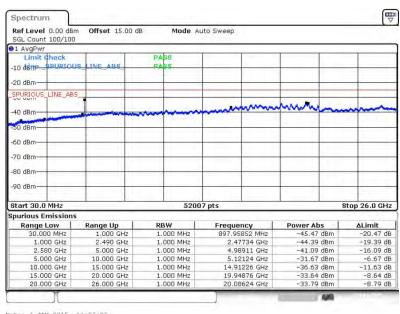
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 353 of 442
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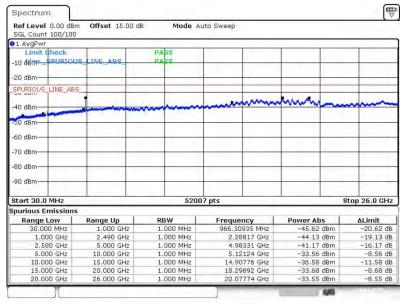
Band: LTE Band 7 Channel: CH21400 (High)
Band Width: 10MHz

QPSK (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 11:23:22

16QAM (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 11:24:42

SPORTON INTERNATIONAL (SHENZHEN) INC.

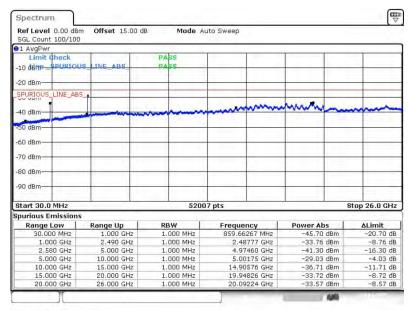
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 354 of 442
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 Band :
 LTE Band 7
 Channel :
 CH20825 (Low)

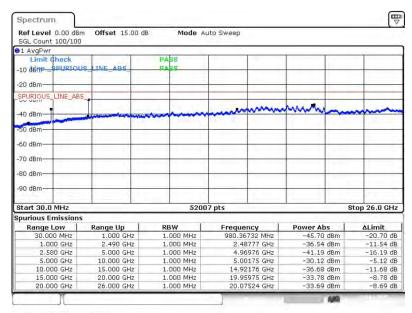
 Band Width :
 15MHz

QPSK (RB Size 1, RB Offset 0)



Date: 4,JAN,2015 11:30:03

16QAM (RB Size 1, RB Offset 0)



Date: 4, JAN, 2015 11:31:24

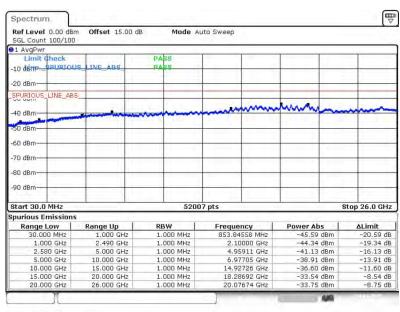
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 355 of 442
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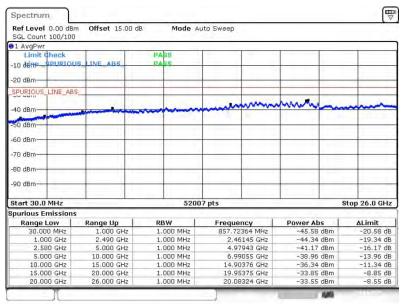
Band :LTE Band 7Channel :CH21100 (Middle)Band Width :15MHz

QPSK (RB Size 1, RB Offset 74)



Date: 4,JAN,2015 11:33:28

16QAM (RB Size 1, RB Offset 74)



Date: 4.JAN.2015 11:34:49

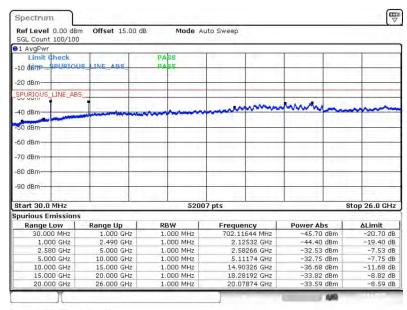
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 356 of 442
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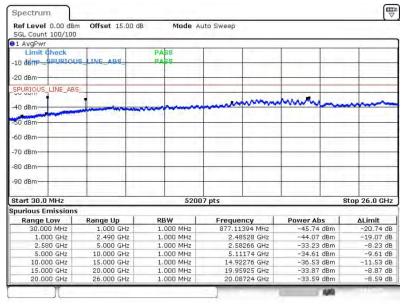
Band: LTE Band 7 Channel: CH21375 (High)
Band Width: 15MHz

QPSK (RB Size 1, RB Offset 74)



Date: 4, JAN, 2015 11:40:11

16QAM (RB Size 1, RB Offset 74)



Date: 4,JAN,2015 11:41:31

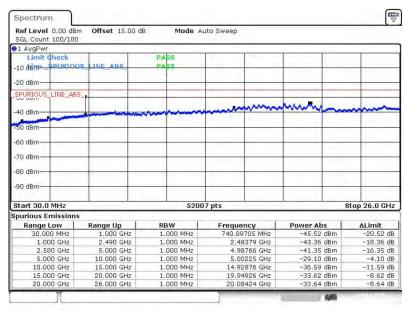
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 357 of 442
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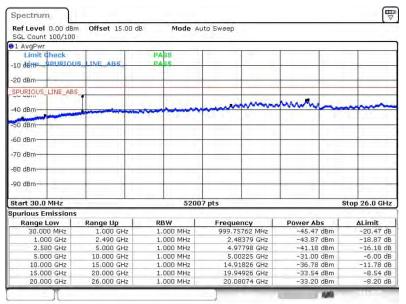
Band: LTE Band 7 Channel: CH20850 (Low)
Band Width: 20MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 11:46:52

16QAM (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 11:48:12

SPORTON INTERNATIONAL (SHENZHEN) INC.

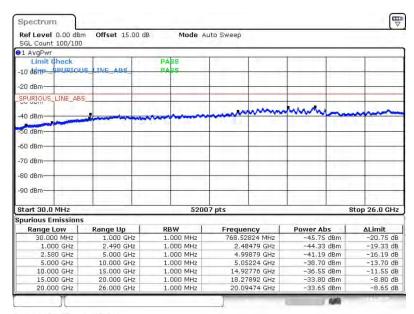
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 358 of 442
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Band: LTE Band 7 Channel: CH21100 (Middle)

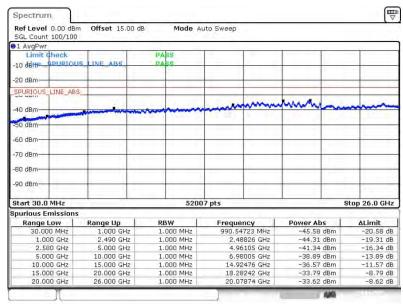
Band Width: 20MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 11:50:17

16QAM (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 11:51:37

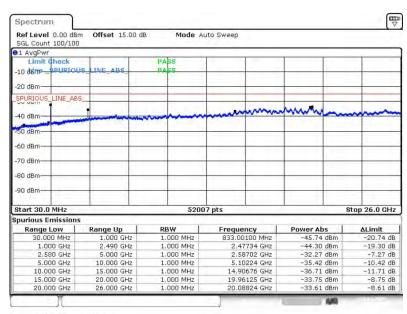
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 359 of 442
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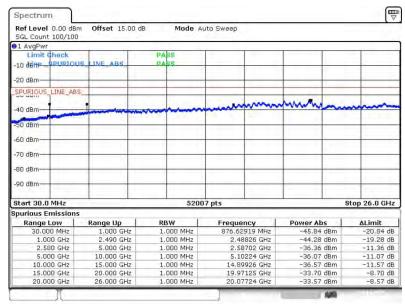
Band: LTE Band 7 Channel: CH21350 (High) 20MHz **Band Width:**

QPSK (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 11:56:58

16QAM (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 11:58:18

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003

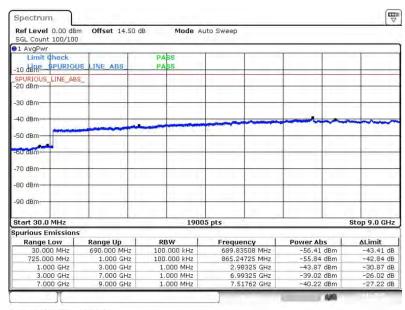
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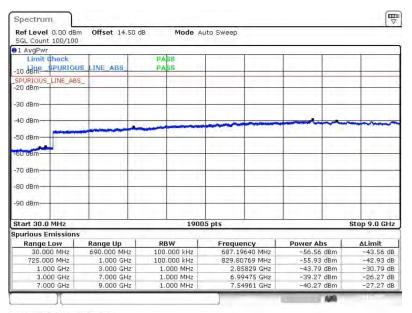
Band: LTE Band 17 Channel: CH23755 (Low)
Band Width: 5MHz

QPSK (RB Size 1, RB Offset 12)



Date: 4, JAN, 2015 16:53:49

16QAM (RB Size 1, RB Offset 12)



Date: 4,JAN,2015 16:55:09

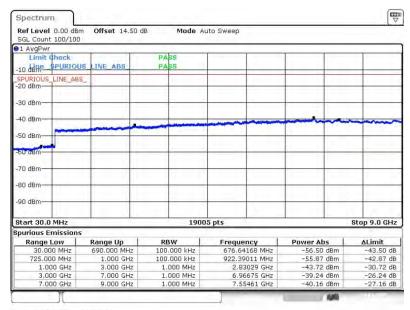
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 361 of 442
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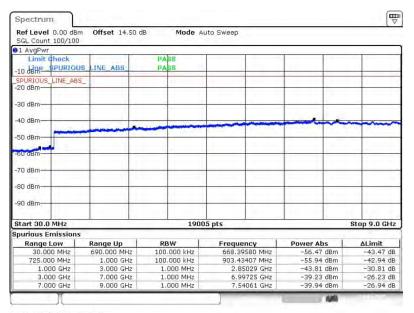
Band: LTE Band 17 Channel: CH23790 (Middle)
Band Width: 5MHz

QPSK (RB Size 1, RB Offset 24)



Date: 4, JAN, 2015 16:57:14

16QAM (RB Size 1, RB Offset 24)



Date: 4,JAN,2015 16:58:33

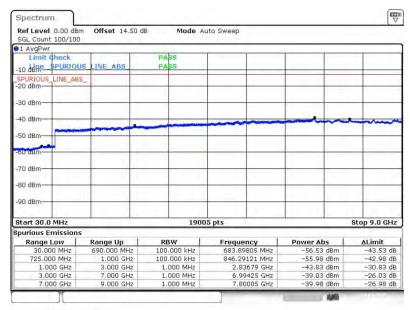
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 362 of 442
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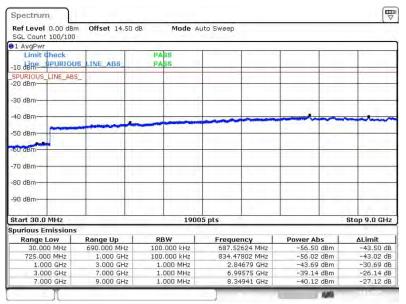
Band: LTE Band 17 Channel: CH23825 (High) 5MHz **Band Width:**

QPSK (RB Size 1, RB Offset 12)



Date: 4.JAN.2015 17:06:41

16QAM (RB Size 1, RB Offset 12)



Date: 4,JAN,2015 17:08:01

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003

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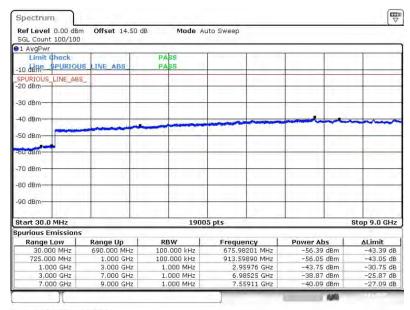
Report No.: FG4D0805B

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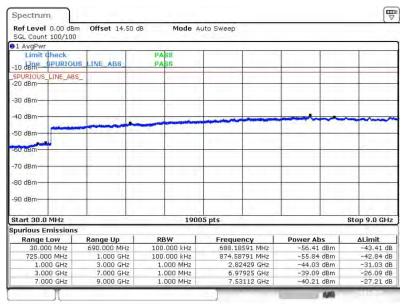
Band: LTE Band 17 Channel: CH23780 (Low) 10MHz **Band Width:**

QPSK (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 17:14:40

16QAM (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 17:16:00

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003

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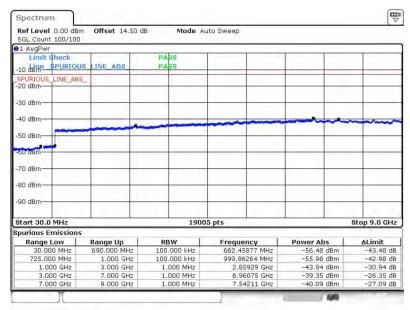
Report Version : Rev. 01



 Band :
 LTE Band 17
 Channel :
 CH23790 (Middle)

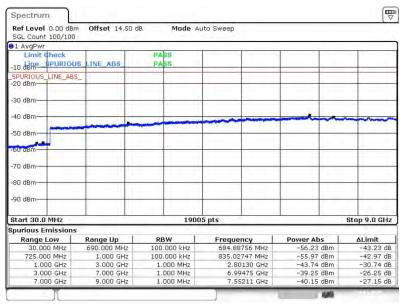
 Band Width :
 10MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4, JAN, 2015 17:10:05

16QAM (RB Size 1, RB Offset 49)



Date: 4,JAN,2015 17:19:24

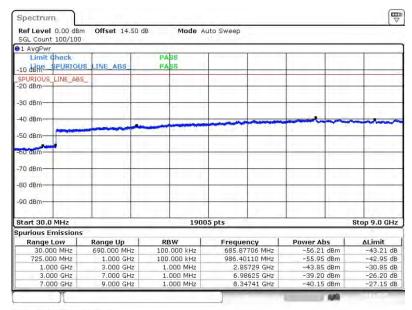
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003 Page Number : 365 of 442
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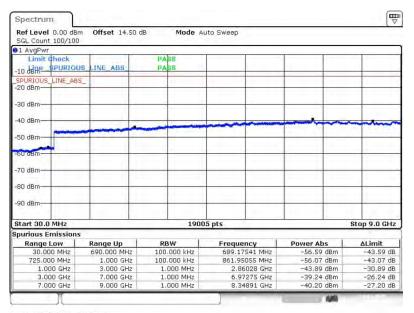
Band: LTE Band 17 Channel: CH23800 (High) **Band Width:** 10MHz

QPSK (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 17:26:05

16QAM (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 17:27:25

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC: 2ACCJB003

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3.7 Radiated Spurious Emission Measurement

3.7.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

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

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W)- [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

For Band 7:

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [55 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15

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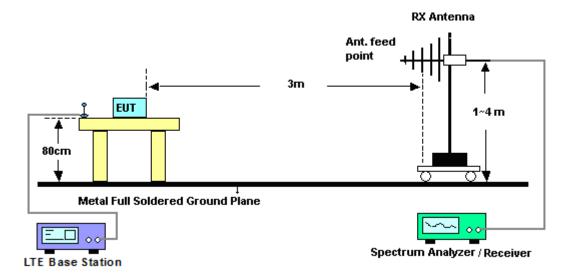
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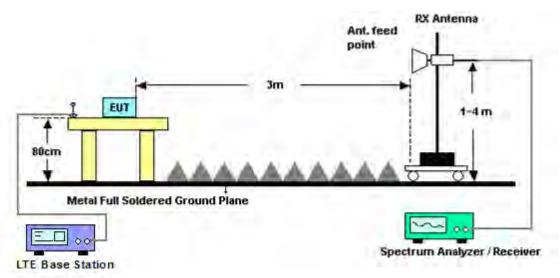
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3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.7.5 Test Result of Field Strength of Spurious Radiated

Band :		LTE Band 2	2		•	Temperature :		23~2	5°C	
Test Mode		1.4MHz QF	PSK RB	Size 1 Offse	et 0	Relative Humi	dity :	50~5	2%	
Channel :		18607 (Lov	v)			Frequency :		1850	.7	
Test Engine	er:	Leo Liao) Liao			Polarization :		Horiz	ontal	
Remark :		Spurious e	urious emissions within 30-10th			rmonic were fou	ınd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)	
3700.32	-43.0)4 -13	-30.04	-71.68	-54.7	7 0.87	12.6	0	Н	Pass
5550.48	-37.0	8 -13	-24.08	-68.31	-49.1	1 1.07	13.1	0	Н	Pass
7400.64	-43.8	3 -13				6 1.87	11.3	0	Н	Pass

Band :		LTE Band 2	2		ı	Temperatur	e:	23~25°C	
Test Mode		1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative Hu	midity:	50~52%	
Channel:		18607 (Lov	v)			Frequency :		1850.7	
Test Engine	eer :	Leo Liao				Polarization	:	Vertical	
Remark :		Spurious e	missions	s within 30-	10th hai	monic were	found more	than 20dB belo	w limit line.
Frequency	EIRF	P Limit	Over	SPA	S.G.	TX Cabl	e TX Ante	enna Polarizatio	n Result
			Limit	Reading	Powe	er loss	Gaiı	า	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	
3700.32	-41.0	6 -13	-28.06	-70	-52.7	9 0.87	12.6	S V	Pass
5550.48	-41.3	6 -13	-28.36	-72.49	-53.3	9 1.07	13.1	V	Pass
7400.64	-44.8	7 -13	-31.87	-76.76	-54.3	0 1.87	11.3	3 V	Pass

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Band :		LTE Band 2	2		1	Temperature :		23~2	25°C	
Test Mode		1.4MHz QF	PSK RB	Size 1 Offse	et 0	Relative Humi	dity :	50~5	52%	
Channel :		18900 (Mid	ldle)			Frequency:		1880)	
Test Engine	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10			monic were for	und more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)	
3758.92	-34.0	2 -13	-21.02	-67.37	-45.7	5 0.87	12.6	0	Н	Pass
5638.38	-32.7	7 -13	-19.77	-65.54	-44.8	0 1.07	13.1	0	Н	Pass
7517.84	-44.4	0 -13	-31.40	-76.06	-53.8	3 1.87	11.3	0	Н	Pass

Donal :		LTC Dond (<u> </u>			Town ovetime :		22.2	75°C	
Band :		LTE Band 2				Temperature :		23~2	:5°C	
Test Mode	:	1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative Humi	dity:	50~5	2%	
Channel:		18900 (Mid	ldle)			Frequency :		1880		
Test Engine	eer :	Leo Liao				Polarization :		Vertic	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were fou	ınd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	r loss	Gair	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3758.92	-39.0	8 -13	-26.08	-69.18	-50.8	1 0.87	12.6	6	V	Pass
5638.38	-40.8	5 -13	-27.85	-71.98	-52.88	8 1.07	13.1		V	Pass
7517.84	-44.5	4 -13	-31.54	-76.43	-53.9	7 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode		1.4MHz QF	SK RB	Size 1 Offs	et 0	Rela	tive Humid	dity:	50~5	52%	
Channel :		19193 (Hig	h)			Fred	quency :		1909	0.3	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th			rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
3760	-34.6	55 -13	-21.65	-67.68	-46.3	8	0.87	12.6	0	Н	Pass
5640	-33.9	0 -13	-20.90	-66.25	-45.9	3	1.07	13.1	0	Н	Pass
7520	-45.0)4 -13				7	1.87	11.3	0	Н	Pass

Band :		LTE Band 2	2			Tempe	erature :		23~2	25°C	
Test Mode		1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relativ	ve Humi	dity :	50~5	52%	
Channel :		19193 (Hig	h)			Frequ	ency:		1909	9.3	
Test Engine	er:	Leo Liao				Polari	zation :		Verti	cal	
Remark :		Spurious e	missions	within 30-	10th ha	rmonic	were fou	ınd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G	. Т.	X Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	ı)	(dB)	(dBi)	(H/V)	
3760	-36.1	4 -13	-23.14	-67.16	-47.8	7	0.87	12.6	6	V	Pass
5640	-37.8	8 -13	-24.88	-70.03	-49.9	1	1.07	13.1		V	Pass
7520	-44.5	4 -13	-31.54	-76.43	-53.9	7	1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Rela	tive Humid	dity:	50~5	52%	
Channel :		18615 (Lov	v)			Freq	uency:		1851	.5	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious e	purious emissions within 30-10th			rmon	ic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
3700.48	-42.6	55 -13	-29.65	-71.29	-54.3	8	0.87	12.6	0	Н	Pass
5550.72	-36.6	64 -13	-23.64	-68.07	-48.6	57	1.07	13.1	0	Н	Pass
7400.96	-44.7	'2 -13				5	1.87	11.3	0	Н	Pass

		LTE D. L				- ,		00 0	500	
Band :		LTE Band 2	2			Temperature :		23~2	5°C	
Test Mode	:	3MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	idity :	50~5	2%	
Channel:		18615 (Lov	v)			Frequency:		1851	.5	
Test Engine	eer :	Leo Liao				Polarization :		Vertic	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	und more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3700.48	-44.1	4 -13	-31.14	-72.59	-55.8	7 0.87	12.6	3	V	Pass
5550.72	-42.6	4 -13	-29.64	-73.77	-54.6	7 1.07	13.1		V	Pass
7400.96	-44.0	1 -13	-31.01	-75.9	-53.4	4 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Temperature :		23~2	5°C	
Test Mode	:	3MHz QPS	K RB Si	ze 1 Offset	0	Relative Humic	dity:	50~5	2%	
Channel :		18900 (Mic	ldle)			Frequency:		1880		
Test Engine	eer:	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious e	purious emissions within 30-10tl			monic were fou	nd more	than	20dB below	limit line.
Frequency	EIRF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3758.92	-31.1	7 -13	-18.17	-65.77	-42.90	0.87	12.6	0	Н	Pass
5638.38	-33.7	7 -13	-20.77	-66.17	-45.80	1.07	13.1	0	Н	Pass
7517.84	-44.7	2 -13				5 1.87	11.3	0	Н	Pass

Band :		LTE Band 2				Tomporeture		23~2	F°C	
banu :		LIE Band 2				Temperature	•	23~2	:5 C	
Test Mode	:	3MHz QPS	K RB Si	ze 1 Offset	0	Relative Hum	idity :	50~5	2%	
Channel :		18900 (Mid	ldle)			Frequency:		1880		
Test Engine	eer :	Leo Liao				Polarization :		Verti	cal	
Remark :		Spurious e	purious emissions within 30-10th			monic were fo	ound more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3758.92	-33.8	5 -13	-20.85	-65.61	-45.58	8 0.87	12.6	6	V	Pass
5638.38	-41.1	3 -13	-28.13	-72.26	-53.10	6 1.07	13.1		V	Pass
7517.84	-44.7	'9 -13	-31.79	-76.68	-54.22	2 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Rela	tive Humid	dity:	50~5	52%	
Channel :		19185 (Hig	h)			Freq	uency :		1908	3.5	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious e	purious emissions within 30-10th			rmon	ic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
3814.48	-29.5	7 -13	-16.57	-64.63	-41.3	0	0.87	12.6	0	Н	Pass
5721.72	-35.7	7 -13 -22.77 -67.56 -4			-47.8	0	1.07	13.1	0	Н	Pass
7628.96	-44.7	6 -13				9	1.87	11.3	0	Н	Pass

Band :		LTE Band 2	2			Temperature :		23~2	:5°C	
Test Mode		3MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	dity:	50~5	52%	
Channel :		19185 (Hig	h)			Frequency :		1908	.5	
Test Engine	er:	Leo Liao				Polarization :		Vertio	cal	
Remark :		Spurious e	ourious emissions within 30-10th			monic were fou	ınd more	than	20dB below	limit line.
Frequency (MHz)	EIRI (dBn		Over Limit (dB)	SPA Reading (dBm)	S.G. Powe (dBm	er loss	TX Ante Gair (dBi	1	Polarization (H/V)	Result
3814.48	-33.2	, , ,	-20.20	-65.26	-44.93	, ,	12.6	,	V	Pass
5721.72	-42.2	22 -13	-29.22	-73.35	-54.2	5 1.07	13.1		V	Pass
7628.96	-43.6	60 -13				3 1.87	11.3	}	V	Pass

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Band: LTE Band 2			2			Temperature :	23~25°C				
Test Mode :		5MHz QPSK RB Size 1 Offset 0				Relative Humic	50~52%				
Channel :		18625 (Low)				Frequency:	1852.5				
Test Engineer : Leo Liao						Polarization :			Horizontal		
Remark :		Spurious emissions within 30-10th harmonic were found more than 20dB below lim							limit line.		
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result	
			Limit	Reading	Powe	er loss	Gair	1			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)		
3700.68	-42.1	9 -13	-29.19	-70.83	-53.92	2 0.87	12.6	0	Н	Pass	
5551.02	-37.6	66 -13	-24.66	-68.65	-49.69	9 1.07	13.1	0	Н	Pass	
7401.36	-44.6	51 -13	-31.61	-76.27	-54.0	4 1.87	11.3	0	Н	Pass	

Band :		LTE Band 2)			Temperature		23~2	25°C		
Dallu .		LIL Dand 2	-			Temperature	25~2	.5 0			
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hum	50~52%				
Channel :		18625 (Lov	v)			Frequency:	1852.5				
Test Engine	er:	Leo Liao				Polarization :			Vertical		
Remark:	Spurious emissions within 30-10th harmonic were found more that							than	20dB below	limit line.	
Frequency	requency EIRP Limit		Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	r loss	Gaiı	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i)	(H/V)		
3700.68	-38.3	30 -13	-25.30	-68.82	-50.03	3 0.87	12.6	6	V	Pass	
5551.02	-40.0	7 -13	-27.07	-71.2	-52.10	0 1.07	13.1	l	V	Pass	
7401.36	-44.6	55 -13	-31.65	-76.54	-54.08	8 1.87	11.3	3	V	Pass	

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Band :	LTE Band 2	ΓE Band 2				Temperature :			23~25°C		
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	50~52%				
Channel :		18900 (Middle)				Frequency:	1880				
Test Engine	Leo Liao				Polarization :			Horizontal			
Remark :	mark : Spurious emissions within 30-10th harmonic were found more than 20dB below							20dB below	limit line.		
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er loss	Gaiı	า			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)		
3755.68	-32.1	2 -13	-19.12	-66.41	-43.8	5 0.87	12.6	0	Н	Pass	
5633.52	-35.6	88 -13	-22.68	-67.49	-47.7	1 1.07	13.1	0	Н	Pass	
7511.36	-44.7	'3 -13	-31.73	-76.39	-54.1	6 1.87	11.3	0	Н	Pass	

Band :		LTE Band 2				Temperature :		23~25°C		
Test Mode	5MHz QPS	5MHz QPSK RB Size 1 Offset 0				idity :	50~52%			
Channel: 18		18900 (Middle)				Frequency:		1880		
Test Engineer : Leo Liao					ı	Polarization :		Vertical		
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB b	oelow lim	nit line.
Frequency	EIRI	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polariz	ation R	esult
			Limit	Reading	Powe	r loss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/\	/)	
3755.68	-30.4	1 -13	-17.41	-63.63	-42.14	1 0.87	12.6	V	F	Pass
5633.52	-40.4	5 -13	-27.45	-71.58	-52.48	3 1.07	13.1	V	F	Pass
7511.36	-44.3	9 -13	-31.39	-76.28	-53.82	2 1.87	11.3	V	F	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Rela	tive Humid	dity:	50~5	52%	
Channel :		19175 (Hig	h)			Freq	uency :		1907	' .5	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th				rmoni	ic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	•	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	1)	(dB)	(dBi)	(H/V)	
3814.48	-29.6				-41.4	2	0.87	12.6	0	Н	Pass
5721.72	-34.0	02 -13 -21.02 -69.57 -4			-46.0	5	1.07	13.1	0	Н	Pass
7628.96	-44.3	30 -13	-31.30	-75.96	-53.7	3	1.87	11.3	0	Н	Pass

Band :		LTE Band 2	2		ŀ	Temperature :		23~2	25°C	
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	dity:	50~5	52%	
Channel :		19175 (Hig	h)			Frequency:		1907	' .5	
Test Engine	er:	Leo Liao				Polarization :		Verti	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were for	und more	than	20dB below	limit line.
Frequency (MHz)	EIRI (dBn		Over Limit (dB)	SPA Reading (dBm)	S.G. Powe (dBm	er loss	TX Ante Gair (dBi	1	Polarization (H/V)	Result
3814.48	-34.4	, , ,	-21.40	-65.9	-46.13	, , ,	12.6		V	Pass
5721.72	-42.7	'6 -13	-29.76	-73.89	-54.79	9 1.07	13.1		V	Pass
7628.96	-44.5	51 -13				4 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2		1	Tempera	ure :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t 0	Relative	Humic	lity :	50~5	52%	
Channel :		18650 (Lov	v)			Frequenc	y:		1855	;	
Test Engine	er:	Leo Liao				Polarizat	ion :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th				monic we	re fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	тх с	able	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er lo	ss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (d	В)	(dBi)	(H/V)	
3701.18	-38.6				-50.3	3 0.	87	12.6	0	Н	Pass
5551.77	-38.6	69 -13 -25.69 -69.33 -			-50.7	2 1.	07	13.1	0	Н	Pass
7402.36	-44.8	34 -13	-31.84	-76.50	-54.2	7 1.	87	11.3	0	Н	Pass

Band :		LTE Band 2	2		ŀ	Temperature	:	23~25°C	
Test Mode		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity :	50~52%	
Channel :		18650 (Lov	v)			Frequency:		1855	
Test Engine	er:	Leo Liao				Polarization :		Vertical	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB be	elow limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna Polariza	tion Result
			Limit	Reading	Powe	r loss	Gaiı	า	
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	1
3701.18	-38.0	6 -13	-25.06	-68.71	-49.7	9 0.87	12.6	S V	Pass
5551.77	-40.3	8 -13	-27.38	-71.51	-52.4	1 1.07	13.1	V	Pass
7402.36	-44.9	2 -13	-31.92	-76.81	-54.3	5 1.87	11.3	8 V	Pass

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Band :		LTE Band 2	2		ŀ	Temperature :		23~2	25°C	
Test Mode :	:	10MHz QP	SK RB S	Size 1 Offse	et O	Relative Humi	dity :	50~5	52%	
Channel :		18900 (Mid	dle)			Frequency :		1880)	
Test Engine	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th har	monic were fou	ınd more	than	20dB below	limit line.
Frequency	EIRF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
3751.18	-32.9	4 -13	-19.94	-66.88	-44.6	7 0.87	12.6	0	Н	Pass
5626.77	-34.9	92 -13 -21.92 -66.91 -4			-46.9	5 1.07	13.1	0	Н	Pass
7502.36	-44.8	6 -13	-31.86	-76.52	-54.29	9 1.87	11.3	0	Н	Pass

Band :		LTE Band 2	2		ŀ	Temperature	:	23~2	:5°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	nidity :	50~5	2%	
Channel :		18900 (Mid	dle)			Frequency:		1880		
Test Engine	er:	Leo Liao				Polarization	:	Vertio	cal	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	ound more	than	20dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3751.18	-30.9	9 -13	-17.99	-64.21	-42.72	2 0.87	12.6	6	V	Pass
5626.77	-40.8	9 -13	-27.89	-72.02	-52.92	2 1.07	13.1		V	Pass
7502.36	-44.6				-54.09	9 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2		1	Temperatur	e :	23~2	5°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t 0	Relative Hu	midity :	50~5	2%	
Channel:		19150 (Hig	h)			Frequency :		1905		
Test Engine	er:	Leo Liao				Polarization):	Horiz	ontal	
Remark :		Spurious emissions within 30-10t				monic were	found more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cab	le TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)	
3801.18	-30.8	1 -13	-17.81	-65.55	-42.5	4 0.87	12.6	0	Н	Pass
5701.77	-37.7	76 -13 -24.76 -68.71			-49.7	9 1.07	13.1	0	Н	Pass
7602.36	-44.8	3 -13	-31.83	-76.49	-54.2	6 1.87	11.3	11.30 H		

Band :		LTE Band 2	2		1	Temperature	:	23~25°C	;	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	nidity :	50~52%		
Channel :		19150 (Hig	h)			Frequency:		1905		
Test Engine	er:	Leo Liao				Polarization	:	Vertical		
Remark :		Spurious e	missions	within 30-	10th hai	monic were fo	ound more	than 20c	B below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Pola	arization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) ((H/V)	
3801.18	-34.6	3 -13	-21.63	-66.02	-46.3	6 0.87	12.6	3	V	Pass
5701.77	-40.9	4 -13	-27.94	-72.07	-52.9	7 1.07	13.1		V	Pass
7602.36	-44.6	8 -13	-31.68	-76.57	-54.1	1 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode		15MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	dity:	50~5	52%	
Channel :		18675 (Lov	<i>i</i>)			Fred	quency :		1857	' .5	
Test Engine	er:	Leo Liao				Pola	arization:		Horiz	zontal	
Remark :		Spurious emissions within 30-10th				rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
3701.68	-40.8	3 -13	-27.83	-70.17	-52.5	6	0.87	12.6	0	Н	Pass
5552.52	-37.0	00 -13 -24.00 -68.26 -4			-49.0)3	1.07	13.1	0	Н	Pass
7403.36	-45.2	.6 -13	-32.26	-76.92	-54.6	9	1.87	11.3	0	Н	Pass

		1								1
Band :		LTE Band 2	2			Temperature :		23~2	5°C	
Test Mode	:	15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Humi	idity :	50~5	2%	
Channel :		18675 (Lov	v)			Frequency:		1857	7.5	
Test Engine	eer :	Leo Liao				Polarization :		Verti	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	und more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3701.68	-37.3	3 -13	-24.33	-68.24	-49.0	6 0.87	12.6	6	V	Pass
5552.52	-41.0	4 -13	-28.04	-72.17	-53.0	7 1.07	13.1		V	Pass
7403.36	-44.7	'0 -13	-31.70	-76.59	-54.13	3 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et O	Rela	tive Humid	dity:	50~5	52%	
Channel :		18900 (Mid	ldle)			Freq	uency :		1880)	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th				rmon	ic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
3746.68	-28.0	02 -13 -15.02 -63.56 -			-39.7	'5	0.87	12.6	0	Н	Pass
5620.02	-38.6	69 -13 -25.69 -69.33 -			-50.7	2	1.07	13.1	0	Н	Pass
7493.36	-44.6	88 -13	-31.68	-76.34	-54.1	1	1.87	11.3	0	Н	Pass

D I		LTE Day 10				T		00 0	500	
Band :		LTE Band 2	2			Temperatur	e:	23~2	5°C	
Test Mode		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hu	midity :	50~5	2%	
Channel:		18900 (Mid	ldle)			Frequency		1880		
Test Engine	er:	Leo Liao				Polarization	n :	Vertic	cal	
Remark :		Spurious emissions within 30-10th				monic were	found more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cab	le TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i)	(H/V)	
3746.68	-32.3	3 -13	-19.33	-64.83	-44.0	6 0.87	12.6	3	V	Pass
5620.02	-43.0	6 -13	-30.06	-74.19	-55.09	9 1.07	13.1		V	Pass
7493.36	-44.9				-54.3	7 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2		1	Temperature	:	23~25°C			
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et O	Relative Hum	idity :	50~5	2%		
Channel :		19125 (Hig	h)			Frequency:		1902	2.5		
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Horiz	Horizontal		
Remark :		Spurious emissions within 30-10th				rmonic were fo	und more	than	20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er loss	Gai	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)		
3791.68	-41.4					5 0.87	12.6	0	Н	Pass	
5687.52	-35.4	42 -13 -22.42 -67.29 <i>-</i> 4				17.45 1.07 13.10 H			Н	Pass	
7583.36	-45.2	8 -13				.71 1.87 11.30			Н	Pass	

Band :		LTE Band 2	2			Temperatur	e:	23~25°C		
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hu	midity :	50~52%		
Channel :		19125 (Hig	h)			Frequency:		1902.5		
Test Engine	er:	Leo Liao				Polarization	n :	Vertical		
Remark :		Spurious e	missions	within 30-	10th ha	rmonic were	found more	than 20dB	below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cab	le TX Ante	enna Polari	ization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H	/V)	
3791.68	-42.0	6 -13	-29.06	-70.51	-53.7	9 0.87	12.6	3	V	Pass
5687.52	-37.8	7 -13	-24.87	-70.01	-49.9	0 1.07	13.1	,	V	Pass
7583.36	-44.6	0 -13	-31.60	-76.49	-54.0	3 1.87	11.3	3	V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C		
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	et O	Rela	tive Humid	dity:	50~5	52%		
Channel :		18700 (Lov	v)			Fred	quency :		1860)		
Test Engine	er:	Leo Liao	eo Liao			Pola	rization :		Horiz	orizontal		
Remark :		Spurious e	Spurious emissions within 30-10th			rmor	nic were fou	nd more	than	20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er	loss	Gaiı	า			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)		
3702.18	-41.7	70 -13 -28.70 -70.52 -5			-53.4	13	0.87	12.60 H		Н	Pass	
5553.27	-34.0	03 -13 -21.03 -66.33 -4)6	1.07	13.1	0	Н	Pass	
7404.36	-43.3	6 -13	-30.36	-75.02	-52.7	79 1.87 11.30 H			Н	Pass		

Band :		LTE Band 2	2		ľ	Temperature :	:	23~2	:5°C	
Test Mode	:	20MHz QP	SK RB S	Size 1 Offse	et O	Relative Hum	idity :	50~5	2%	
Channel :		18700 (Lov	v)			Frequency:		1860		
Test Engine	eer :	Leo Liao	eo Liao			Polarization :		Vertio	cal	
Remark :		Spurious e	Spurious emissions within 30-10t			rmonic were fo	und more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er loss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3702.18	-40.6	1 -13	-27.61	-69.8	-52.3	4 0.87	12.6	6	V	Pass
5553.27	-41.0	3 -13	-28.03	-72.16	-53.0	6 1.07	13.1		V	Pass
7404.36	-43.9	4 -13	-30.94	-75.83	-53.3	37 1.87 11.3 V			V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t 0	Rela	ative Humic	dity:	50~5	52%	
Channel :		18900 (Mid	ldle)			Fred	quency :		1880)	
Test Engine	er:	Leo Liao	eo Liao			Pola	arization:		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th				nic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n)	(dB)	(dBi	i)	(H/V)	
3742.18	-31.1	18 -13 -18.18 -65.78 -)1	0.87	12.6	0	Н	Pass
5613.27	-39.7	71 -13 -26.71 -70.10 -{				' 4	1.07	13.1	0	Н	Pass
7484.36	-44.9	98 -13	-31.98	-76.64	-54.4	.41 1.87 11.30 H			Н	Pass	

Band :		LTE Band 2	2		ŀ	Temperature	:	23~2	5°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity :	50~52	2%	
Channel :		18900 (Mid	dle)			Frequency:		1880		
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Vertic	al	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than	20dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna l	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3742.18	-31.2	2 -13	-18.22	-64.32	-42.9	5 0.87	12.6	6	V	Pass
5613.27	-43.1	3 -13	-30.13	-74.26	-55.16	1.07	13.1		V	Pass
7484.36	-44.7	2 -13	-31.72	-76.61	-54.15	5 1.87	11.3		V	Pass

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Band :		LTE Band 2	2			Tem	perature :		23~2	25°C		
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t 0	Rela	tive Humic	dity:	50~5	52%		
Channel :		19100 (Hig	h)			Freq	luency :		1900)		
Test Engine	er:	Leo Liao	eo Liao			Pola	rization :		Horiz	rizontal		
Remark :		Spurious e	Spurious emissions within 30-10th				ic were fou	nd more	than	20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G	•	TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er	loss	Gai	า			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	າ)	(dB)	(dBi)	(H/V)		
3782.18	-43.2	27 -13 -30.27 -71.91 -			-55.0	0	0.87	12.60 H		Н	Pass	
5673.27	-35.4	49 -13 -22.49 -67.34 <i>-</i> 4				2	1.07	13.1	0	Н	Pass	
7564.36	-45.2	25 -13	-32.25	-76.91	-54.6	.68 1.87 11.30 H			Н	Pass		

Band :		LTE Band 2	2			Temperature	:	23~25°	С	
Test Mode		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	nidity :	50~52%	%	
Channel :		19100 (Hig	h)			Frequency:		1900		
Test Engine	er:	Leo Liao	eo Liao			Polarization :	:	Vertical		
Remark :		Spurious e	purious emissions within 30-10th			monic were fo	ound more	than 20	dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Po	larization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3782.18	-42.3	9 -13	-29.39	-70.84	-54.1	2 0.87	12.6	3	V	Pass
5673.27	-41.1	0 -13	-28.10	-72.23	-53.13	3 1.07	13.1		V	Pass
7564.36	-44.5	8 -13				1 1.87	.87 11.3 V			Pass

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Band :		LTE Band 4	4			Tem	perature :		23~2	25°C	
Test Mode :		1.4MHz QF	SK RB	Size 1 Offse	et 0	Rela	ative Humic	dity:	50~5	52%	
Channel :		19957 (Lov	v)			Fred	quency:		1710).7	
Test Engine	er:	Leo Liao	eo Liao			Pola	arization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th			rmor	nic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn				(dBn	n)	(dB)	(dBi)	(H/V)	
3420.32	-44.2	25 -13 -31.25 -70.88 -)4	0.81	12.6	0	Н	Pass
5130.48	-43.2	6 -13 -30.26 -72.78 -5				5.01 0.95 12.70 H		Н	Pass		
6840.64	-45.5	55 -13	-32.55	-75.95	-56.1	12 1.13 11.3			0	Н	Pass

Band :		LTE Band	4		ŀ	Temperature	:	23~25°C	
Test Mode		1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative Hum	idity :	50~52%	
Channel :		19957 (Lov	v)		ı	Frequency:		1710.7	
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Vertical	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB b	elow limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna Polariza	ation Result
			Limit	Reading	Powe	r loss	Gair	ı	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V	')
3420.32	-48.8	8 -13	-35.88	-71.16	-60.67	7 0.81	12.6	S V	Pass
5130.48	-49.4	-13	-36.40	-73.93	-61.15	0.95	12.7	· V	Pass
6840.64	-43.6	60 -13	-30.60	-75.41	-54.17	7 1.13	11.7	· V	Pass

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Band :		LTE Band 4	4		•	Temperature :		23~25°C		
Test Mode	:	1.4MHz QF	PSK RB	Size 1 Offse	et 0	Relative Humi	dity:	50~5	52%	
Channel :		20175 (Mid	ldle)			Frequency:		1732	2.5	
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Horizontal		
Remark :		Spurious e	Spurious emissions within 30-10th			monic were for	und more	than	20dB below	limit line.
Frequency	EIRE	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)	
3463.92	-44.8	3 -13	-31.83	-71.46	-56.6	2 0.81	12.6	0	Н	Pass
5195.88	-43.4	9 -13 -30.49 -73.01 -				5.24 0.95 12.70 H			Н	Pass
6927.84	-45.0	9 -13	-32.09	-75.49	-55.6	6 1.13 11.70			Н	Pass

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Band :		LTE Band 4	4			Temperat	ure :		23~2	25°C	
Test Mode	:	1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative H	lumic	dity:	50~5	52%	
Channel:		20175 (Mid	ldle)			Frequenc	y :		1732	732.5	
Test Engine	eer :	Leo Liao	eo Liao			Polarizati	on :		Verti	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic we	re fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX C	able	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er los	s	Gain	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dE	3)	(dBi))	(H/V)	
3463.92	-49.1	4 -13	-36.14	-71.42	-60.93	3 0.8	31	12.6		V	Pass
5195.88	-49.3	6 -13	-36.36	-73.89	-61.1 ²	1 0.9	5	12.7		V	Pass
6927.84	-42.3					.91 1.13 11.7 V			V	Pass	

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Band :		LTE Band 4	1			Tem	perature :		23~25°C		
Test Mode :		1.4MHz QF	SK RB	Size 1 Offs	et 0	Rela	ative Humic	dity:	50~5	52%	
Channel :		20393 (Hig	h)			Fred	quency :		1754	.3	
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious e	purious emissions within 30-10th			rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G	•	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Pow	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
3507.52	-44.3	34 -13	-31.34	-70.97	-56.1	3	0.81	12.6	0	Н	Pass
5261.28	-44.0	3 -13 -31.03 -73.55 -5			-55.7	7 8	0.95	12.7	0	Н	Pass
7015.04	-45.1	1 -13	-32.11	-75.51	-55.6	68 1.13 11.70 H			Н	Pass	

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Band :		LTE Band 4	1			Temp	erature:		23~2	25°C	
Test Mode		1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relat	ive Humi	dity:	50~5	52%	
Channel :		20393 (Hig	h)			Frequ	uency :		1754	1.3	
Test Engine	er:	Leo Liao				Polar	ization :		Verti	cal	
Remark :		Spurious e	ourious emissions within 30-10th h			rmoni	c were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	ı)	(dB)	(dBi)	(H/V)	
3507.52	-48.8	9 -13	-35.89	-71.17	-60.6	8	0.81	12.6	;	V	Pass
5261.28	-48.1	7 -13	-35.17	-72.7	-59.9	2	0.95	12.7	•	V	Pass
7015.04	-43.3	6 -13				93 1.13 11.7			V	Pass	

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Band :		LTE Band 4	1		1	Temperature :		23~25°C			
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Relative Humid	dity:	50~5	2%		
Channel :		19965 (Lov	v)			Frequency:		1711	711.5		
Test Engine	er:	Leo Liao				Polarization :		Horizontal			
Remark :		Spurious e	purious emissions within 30-10th			rmonic were fou	nd more	than	20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er loss	Gaiı	า			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)		
3420.48	-44.7	'3 -13	-31.73	-71.36	-56.5	2 0.81	12.6	0	Н	Pass	
5130.72	-44.4	9 -13 -31.49 -74.01 -56			-56.2	4 0.95	0.95 12.70 H		Н	Pass	
6840.96	-43.6	55 -13	-30.65	-74.05	-54.2	2 1.13 11.70 H			Н	Pass	

Band :		LTE Band 4	1		ľ	Temperatur	e:	23~25	5°C	
Test Mode :		3MHz QPS	K RB Si	ize 1 Offset	: 0	Relative Hu	midity :	50~52	2%	
Channel :		19965 (Lov	v)			Frequency		1711.	5	
Test Engine	er:	Leo Liao) Liao			Polarization):	Vertic	al	
Remark :		Spurious e	urious emissions within 30-10th h			monic were	found more	than	20dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cab	le TX Ante	enna F	Polarization	Result
			Limit	Reading	Powe	r loss	Gai	n		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i)	(H/V)	
3420.48	-47.5	0 -13	-34.50	-69.78	-59.29	9 0.81	12.6	3	V	Pass
5130.72	-49.0	7 -13	-36.07	-73.6	-60.82	2 0.95	12.7	7	V	Pass
6840.96	-43.6	3 -13				0 1.13	11.7	11.7 V		Pass

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Band :		LTE Band 4	4			Temp	erature :		23~25°	°C	
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Relati	ve Humidity	y :	50~529	%	
Channel :		20175 (Mid	ldle)			Frequ	ency:		1732.5		
Test Engine	er:	Leo Liao				Polari	zation :		Horizoi	ntal	
Remark :		Spurious emissions within 30-10			l Oth I	narmo	nic were fou	nd mo	re than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S	.G.	TX Cable	TX A	ntenna	Polarization	Result
			Limit	Reading	Po	wer	loss	G	ain		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(d	Bm)	(dB)	(0	lBi)	(H/V)	
3462.48	-44.7	2 -13 -31.72 -71.35			-56	6.51	0.81	12	2.60	Н	Pass
5193.72	-44.4	8 -13 -31.48 -74.00			-56	6.23	0.95	12	2.70	Н	Pass
6924.96	-44.7	7 2 -13				55.29 1.13 1			1.70	Н	Pass

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Band :		LTE Band 4	4			Temperatu	re:	23~25°C		
Test Mode	•	3MHz QPS	K RB Si	ze 1 Offset	0	Relative H	umidity :	50~52%		
Channel :		20175 (Mid	ldle)			Frequency	':	1732.5		
Test Engine	eer :	Leo Liao				Polarizatio	n:	Vertical		
Remark :		Spurious e	missions	within 30-	10th harmo	nic were fou	ind more th	an 20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Antenn	a Polarization	Result	
			Limit	Reading	Power	loss	Gain			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)		
3462.48	-49.0	1 -13	-36.01	-71.29	-60.80	0.81	12.6	V	Pass	
5193.72	-49.0	3 -13	-36.03	-73.56	-60.78	0.95	12.7	V	Pass	
6924.96	-44.1	6 -13	-31.16	-75.97	-54.73	1.13 11.7 V			Pass	

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Band :		LTE Band 4	1			Tempe	rature :		23~2	25°C	
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Relativ	e Humio	dity:	50~5	2%	
Channel:		20385 (Hig	h)			Freque	ncy:		1753	3.5	
Test Engine	er:	Leo Liao				Polariz	ation :		Horizontal		
Remark :		Spurious e	purious emissions within 30-10th			rmonic	were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. T)	Cable Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	ı) ((dB)	(dBi)	(H/V)	
3504.48	-44.9	3 -13 -31.93 -71.56 -50			-56.7	2	0.81	12.6	0	Н	Pass
5256.72	-44.1	7 -13 -31.17 -73.69 -55			-55.9	92 0.95 12.70 H		Н	Pass		
7008.96	-45.9	98 -13				5	5 1.13 11.70 H			Н	Pass

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Band :		LTE Band 4	4		ľ	Temperature	:	23~2	5°C	
Test Mode	:	3MHz QPS	K RB Si	ze 1 Offset	: 0	Relative Hum	idity :	50~5	2%	
Channel :		20385 (Hig	h)			Frequency:		1753	.5	
Test Engine	eer :	Leo Liao				Polarization :	;	Vertic	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	ound more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3504.48	-49.5	54 -13	-36.54	-71.82	-61.3	3 0.81	12.6	6	V	Pass
5256.72	-49.1	6 -13	-36.16	-73.69	-60.9	1 0.95	12.7	7	V	Pass
7008.96	-44.2	23 -13				0 1.13	11.7	7	V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~25°C			
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Rela	ative Humic	dity:	50~5	52%		
Channel :		19975 (Lov	v)			Fred	quency :		1712	2.5		
Test Engine	er:	Leo Liao	o Liao			Pola	arization :		Horiz	Horizontal		
Remark :		Spurious e	purious emissions within 30-10th			rmor	nic were fou	nd more	than	20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er	loss	Gai	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)		
3420.68	-44.3	, , , , , , , , , , , , , , , , , , , ,			-56.1	8	0.81	12.6	0	Н	Pass	
5131.02	-43.4	-13 -30.41 -72.93 -55			-55.1	6	0.95	12.7	0	Н	Pass	
6841.36	-44.0)4 -13	-31.04	-74.44	-54.6	31	1.13	11.70 H			Pass	

Band :		LTE Band 4	1			Temperature	:	23~2	5°C	
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hun	nidity :	50~52	2%	
Channel :		19975 (Lov	v)			Frequency:		1712.	.5	
Test Engine	er:	Leo Liao	o Liao			Polarization	:	Vertic	al	
Remark :		Spurious e	purious emissions within 30-10th h			monic were fo	ound more	than	20dB below	limit line.
Frequency (MHz)	EIRI (dBn		Over Limit (dB)	SPA Reading (dBm)	S.G. Powe (dBm	er loss	e TX Anto Gair (dBi	n	Polarization (H/V)	Result
3420.68	-48.8	, , ,	-35.81	-71.09	-60.60	, ,	12.6		V	Pass
5131.02	-48.0)4 -13	-35.04	-72.57	-59.79	9 0.95	12.7	7	V	Pass
6841.36	-44.0	00 -13	-31.00	-75.81	-54.5	57 1.13 11.7 V			V	Pass

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Band :		LTE Band 4	1			Temp	perature :		23~2	25°C	
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relat	tive Humic	dity:	50~5	52%	
Channel:		20175 (Mid	dle)			Frequ	uency:		1732	2.5	
Test Engine	er:	Leo Liao	eo Liao			Polar	rization :		Horiz	zontal	
Remark :		Spurious e	purious emissions within 30-10th			rmoni	ic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
3460.68	-45.1	5 -13 -32.15 -71.78 -5			-56.9)4	0.81	12.6	0	Н	Pass
5191.02	-44.3	9 -13 -31.39 -73.91 -5			-56.1	4	0.95	12.7	0	Н	Pass
6921.36	-44.8	4 -13	-31.84	-75.24	-55.4	1	1.13	13 11.70 H		Н	Pass

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Band :		LTE Band 4	1			Temperature) :	23~2	5°C	
Test Mode	•	5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hur	midity :	50~5	2%	
Channel:		20175 (Mid	ldle)			Frequency :		1732	.5	
Test Engine	eer:	Leo Liao				Polarization	:	Vertical		
Remark :		Spurious e	missions	within 30-	10th har	monic were f	ound more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cabl	e TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	(dB)	(dBi)	(H/V)	
3460.68	-48.5	52 -13	-35.52	-70.8	-60.3	1 0.81	12.6	3	V	Pass
5191.02	-49.3	34 -13	-36.34	-73.87	-61.09	9 0.95	12.7	7	V	Pass
6921.36	-44.1	5 -13				2 1.13	11.7	7	V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Rela	ative Humic	dity:	50~5	52%	
Channel :		20375 (Hig	h)			Fred	quency :		1752	2.5	
Test Engine	er:	Leo Liao					arization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th h				nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
3500.68	-45.2	22 -13 -32.22 -71.85 -57			-57.0)1	0.81	12.6	0	Н	Pass
5251.02	-44.2	20 -13 -31.20 -73.72 -55			-55.9	95	0.95	12.7	0	Н	Pass
7001.36	-44.6	9 -13	-31.69	-75.09	-55.2	26	1.13	11.7	0	Н	Pass

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Band :		LTE Band 4	4			Temperature :		23~2	5°C	
Test Mode	:	5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	dity:	50~5	2%	
Channel:		20375 (Hig	h)			Frequency :		1752	.5	
Test Engine	eer:	Leo Liao				Polarization :		Vertic	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	und more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3500.68	-49.4	3 -13	-36.43	-71.71	-61.22	2 0.81	12.6	5	V	Pass
5251.02	-48.9	2 -13	-35.92	-73.45	-60.6	7 0.95	12.7	•	V	Pass
7001.36	-44.1				-54.7	5 1.13	11.7	•	V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t 0	Rela	tive Humic	dity:	50~5	52%	
Channel :		20000 (Lov	v)			Freq	luency:		1715	5	
Test Engine	er:	Leo Liao	eo Liao			Pola	rization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th				ic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	•	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	າ)	(dB)	(dBi)	(H/V)	
3421.18	-44.6	61 -13 -31.61 -71.24 -5			-56.4	0	0.81	12.6	0	Н	Pass
5131.77	-43.7	76 -13 -30.76 -73.28 -55				1	0.95	12.7	0	Н	Pass
6842.36	-45.0	1 -13	-32.01	-75.41	-55.5	8	1.13				Pass

Band :		LTE Band 4	1			Temperature	:	23~25°C		
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	nidity :	50~52%		
Channel :		20000 (Lov	v)		ı	Frequency:		1715		
Test Engine	er:	Leo Liao	eo Liao			Polarization	:	Vertical		
Remark :		Spurious e	purious emissions within 30-10th I			monic were fo	ound more	than 20d	IB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Pola	arization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) ((H/V)	
3421.18	-49.1	9 -13	-36.19	-71.47	-60.98	3 0.81	12.6	3	V	Pass
5131.77	-49.4	0 -13	-36.40	-73.93	-61.15	0.95	12.7	,	V	Pass
6842.36	-43.4	6 -13				3 1.13	11.7	11.7 V		

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Band :		LTE Band 4	1		•	Temperature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et O	Relative Humi	dity :	50~5	2%	
Channel :		20175 (Mid	dle)			Frequency:		1732	2.5	
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Horiz	zontal	
Remark :		Spurious e	missions	within 30-1	10th har	rmonic were fou	ınd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
3456.18	-44.5	9 -13	-31.59	-71.22	-56.3	8 0.81	12.6	0	Н	Pass
5184.27	-44.0	04 -13 -31.04 -73.56 -5			-55.7	9 0.95	12.7	0	Н	Pass
6912.36	-44.9	0 -13	-31.90	-75.30	-55.4	7 1.13	11.7	0	Н	Pass

Band :		LTE Band 4	4		1	Temperature	e:	23~25°	С	
Test Mode		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hui	midity :	50~52%	%	
Channel :		20175 (Mic	ldle)			Frequency :		1732.5		
Test Engine	er:	Leo Liao				Polarization	:	Vertical		
Remark :		Spurious e	missions	within 30-	10th hai	monic were	found more	than 20	dB below	limit line.
Frequency	EIRF	- Limit	Over	SPA	S.G.	TX Cabl	e TX Ante	enna Po	larization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3456.18	-49.3	0 -13	-36.30	-71.58	-61.0	9 0.81	12.6	3	V	Pass
5184.27	-48.8	7 -13	-35.87	-73.4	-60.6	2 0.95	12.7	7	V	Pass
6912.36	-43.8	2 -13	-30.82	-75.63	-54.3	9 1.13	11.7	7	V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	dity:	50~5	52%	
Channel :		20350 (Hig	h)			Fred	quency:		1750)	
Test Engine	er:	eo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th				rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Pow	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
3491.18	-44.2	.1 -13	-31.21	-70.84	-56.0	00	0.81	12.6	0	Н	Pass
5236.77	-43.8	36 -13 -30.86 -73.38 -5				31	0.95	12.7	0	Н	Pass
6982.36	-45.8	9 -13	-32.89	-76.29	-56.4	16	1.13	11.7	0	Н	Pass

					1						
Band :		LTE Band 4	4			Tempe	rature :		23~2	25°C	
Test Mode	:	10MHz QP	SK RB S	Size 1 Offse	et O	Relativ	e Humi	dity:	50~5	52%	
Channel:		20350 (Hig	h)			Freque	ncy:		1750)	
Test Engine	eer :	Leo Liao				Polariz	ation :		Verti	cal	
Remark :		Spurious e	purious emissions within 30-10th h			rmonic v	were fou	ınd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over Limit	SPA Reading	S.G. Powe		Cable loss	TX Ante		Polarization	Result
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) ((dB)	(dBi)	(H/V)	
3491.18	-49.1	8 -13	-36.18	-71.46	-60.9	7	0.81	12.6	5	V	Pass
5236.77	-49.0)4 -13	-36.04	-73.57	-60.7	9	0.95	12.7	,	V	Pass
6982.36	-44.1	0 -13	-31.10	-75.91	-54.6	7	1.13	11.7	,	V	Pass

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Band :		LTE Band 4	1			Temperature :		23~25°C		
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	t 0	Relative Humid	lity :	50~5	2%	
Channel :		20025 (Lov	/)			Frequency:		1717	.5	
Test Engine	er :	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	10th hai	rmonic were fou	nd more	than	20dB below	limit line.
Frequency	EIRE	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
3421.68	-44.6	7 -13	-31.67	-71.30	-56.4	6 0.81	12.6	0	Н	Pass
5132.52	-44.1	8 -13 -31.18 -73.70 -58			-55.9	3 0.95	12.7	0	Н	Pass
6843.36	-44.1	7 -13	-31.17	-74.57	-54.7	4 1.13	11.7	0	Н	Pass

Band :		LTE Band 4	4			Temperature :		23~25	5°C	
Test Mode	:	15MHz QP	SK RB S	Size 1 Offse	et O	Relative Humi	dity:	50~52	2%	
Channel:		20025 (Lov	v)			Frequency:		1717.	5	
Test Engine	eer :	Leo Liao				Polarization :		Vertic	al	
Remark :		Spurious e	missions	within 30-	10th har	monic were fou	und more	than 2	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna F	Polarization	Result
			Limit	Reading	Powe	r loss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3421.68	-49.4	2 -13	-36.42	-71.7	-61.2°	1 0.81	12.6	;	V	Pass
5132.52	-48.8	9 -13	-35.89	-73.42	-60.6	4 0.95	12.7	•	V	Pass
6843.36	-43.4				-54.02	2 1.13	11.7	•	V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et O	Rela	tive Humic	dity:	50~5	52%	
Channel :		20175 (Mid	dle)			Freq	luency:		1732	2.5	
Test Engine	er:	Leo Liao	eo Liao			Pola	rization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th				ic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	•	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	າ)	(dB)	(dBi)	(H/V)	
3451.68	-44.8	31 -13 -31.81 -71.44 -5			-56.6	0	0.81	12.6	0	Н	Pass
5177.52	-44.3	36 -13 -31.36 -73.88 -5			-56.1	1	0.95	12.70 H		Pass	
6903.36	-44.9	4 -13	-31.94	-75.34	-55.5	1	1.13	11.70 H			Pass

Band :		LTE Band 4	1		1	Temperature		23~25°C	
Test Mode		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity :	50~52%	
Channel :		20175 (Mid	ldle)			Frequency :		1732.5	
Test Engine	er:	Leo Liao				Polarization :		Vertical	
Remark :		Spurious e	missions	s within 30-	10th hai	monic were fo	und more	than 20dB belo	ow limit line.
Frequency	EIRE	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarizatio	n Result
			Limit	Reading	Powe	r loss	Gair	1	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	
3451.68	-49.3	2 -13	-36.32	-71.6	-61.1	1 0.81	12.6	V	Pass
5177.52	-49.1	9 -13	-36.19	-73.72	-60.9	4 0.95	12.7	V	Pass
6903.36	-43.0	0 -13	-30.00	-74.81	-53.5	7 1.13	11.7	· V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	t 0	Rela	tive Humic	dity:	50~5	52%	
Channel :		20325 (Hig	h)			Freq	uency :		1747	' .5	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10			10th ha	rmon	ic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n)	(dB)	(dBi)	(H/V)	
3481.68	-44.7	73 -13 -31.73 -71.36 -			-56.5	2	0.81	12.6	0	Н	Pass
5222.52	-44.0	04 -13 -31.04 -73.56 -			-55.7	9	0.95	12.7	0	Н	Pass
6963.36	-45.3	30 -13	-32.30	-75.70	-55.8	37	1.13	11.7	0	Н	Pass

								1		
Band :		LTE Band 4	1			Temperatur	е:	23~25°C		
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hu	midity :	50~52%		
Channel :		20325 (Hig	h)		ı	Frequency	:	1747.5		
Test Engine	er:	eo Liao				Polarization	n :	Vertical		
Remark :		Spurious emissions within 30-10th			10th har	monic were	found more	than 20d	IB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cab	le TX Ante	enna Pola	arization	Result
			Limit	Reading	Powe	r loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) ((H/V)	
3481.68	-48.7	7 -13	-35.77	-71.05	-60.56	6 0.81	12.6	3	V	Pass
5222.52	-48.9	0 -13	-35.90	-73.43	-60.65	5 0.95	12.7	7	V	Pass
6963.36	-44.0				-54.59	9 1.13	11.7	,	V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	dity:	50~5	52%	
Channel :		20050 (Lov	v)			Fred	quency :		1720)	
Test Engine	er:	Leo Liao				Pola	arization:		Horiz	zontal	
Remark :		Spurious emissions within 30-10th				rmor	nic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
3422.18	-45.0	03 -13 -32.03 -71.66 -			-56.8	2	0.81	12.6	0	Н	Pass
5133.27	-43.9	94 -13 -30.94 -73.46 -5			-55.6	9	0.95	12.7	0	Н	Pass
6844.36	-45.1	4 -13	-32.14	-75.54	-55.7	'1	1.13	11.7	0	Н	Pass

Band :		LTE Band 4	1			Temperatur	e:	23~25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hu	midity :	50~52%	
Channel :		20050 (Lov	v)			Frequency	:	1720	
Test Engine	er:	Leo Liao				Polarization	n :	Vertical	
Remark :		Spurious e	missions	within 30-	10th hai	monic were	found more	than 20dB b	pelow limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cab	le TX Ante	enna Polariza	ation Result
			Limit	Reading	Powe	er loss	Gai	n	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i) (H/V	')
3422.18	-48.6	0 -13	-35.60	-70.88	-60.3	9 0.81	12.6	6 V	Pass
5133.27	-48.7	6 -13	-35.76	-73.29	-60.5	1 0.95	12.7	7 V	Pass
6844.36	-44.0	1 -13	-31.01	-75.82	-54.5	8 1.13	11.7	7 V	Pass

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Band :		LTE Band 4	1			Tem	perature :		23~2	25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t O	Rela	tive Humic	dity:	50~5	52%	
Channel:		20175 (Mid	dle)			Fred	quency :		1732	2.5	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10			10th ha	rmor	nic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
3447.18	-44.9	99 -13 -31.99 -71.62 -			-56.7	'8	0.81	12.60 H		Н	Pass
5170.77	-43.6	68 -13 -30.68 -73.20 -			-55.4	3	0.95	5 12.70 H		Н	Pass
6894.36	-44.5	59 -13	-31.59	-74.99	-55.1	6	1.13	11.7	0	Н	Pass

Band :		LTE Band 4	1		ľ	Temperature	:	23~25°	С	
Test Mode		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity:	50~52%	6	
Channel :		20175 (Mid	ldle)			Frequency:		1732.5		
Test Engine	er:	Leo Liao			ı	Polarization :		Vertical		
Remark :		Spurious e	Spurious emissions within 30-10th			monic were fo	ound more	than 20	dB below	limit line.
Frequency	EIRI	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Po	larization	Result
			Limit	Reading	Powe	r loss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
3447.18	-48.9	4 -13	-35.94	-71.22	-60.73	0.81	12.6	;	V	Pass
5170.77	-48.9	0 -13	-35.90	-73.43	-60.6	0.95	12.7	•	V	Pass
6894.36	-43.6	6 -13				3 1.13	11.7	,	V	Pass

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Band :		LTE Band 4	1		1	Temperatur	e:	23~25	5°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	et O	Relative Hu	midity :	50~52	2%	
Channel :		20300 (Hig	h)			Frequency	:	1745		
Test Engine	er:	Leo Liao				Polarization	n :	Horizo	ontal	
Remark :		Spurious emissions within 30-10t				monic were	found more	than 2	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cab	le TX Ante	enna F	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
3472.18	-45.0				-56.8	2 0.81	12.6	12.60 H		Pass
5208.27	-44.2	22 -13 -31.22 -73.74 -			-55.9	7 0.95	12.70 H		Pass	
6944.36	-45.5	2 -13	-32.52	-75.92	-56.0	9 1.13				Pass

Band :		LTE Band 4	1		ľ	Temperatur	e:	23~25	5°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hu	midity :	50~52	2%	
Channel :		20300 (Hig	h)			Frequency		1745		
Test Engine	er:	Leo Liao				Polarization):	Vertic	al	
Remark :		Spurious e	Spurious emissions within 30-10t			monic were	found more	than	20dB below	limit line.
Frequency	EIRE	Limit	Over	SPA	S.G.	TX Cab	le TX Ante	enna F	Polarization	Result
			Limit	Reading	Powe	r loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i)	(H/V)	
3472.18	-48.7	7 -13	-35.77	-71.05	-60.5	6 0.81	12.6	6	V	Pass
5208.27	-49.3	7 -13	-36.37	-73.9	-61.12	2 0.95	12.7	7	V	Pass
6944.36	-44.1				-54.6	7 1.13	11.7	7	V	Pass

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Band :		LTE Band	5			Temperature :		23~2	25°C	
Test Mode :		1.4MHz QF	SK RB	Size 1 Offs	et 0	Relative Humi	dity :	50~5	2%	
Channel :		20407 (Lov	v)			Frequency:		824.7	7	
Test Engine	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10th			rmonic were fo	und more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n) (dB)	(dBi)	(H/V)	
1649.92	-56.6	62 -13	-43.62	-69.04	-59.8	0.92	6.32	2	Н	Pass
2474.88	-46.6	4 -13 -33.64 -69.31 -4			-49.1	9 1.2	5.90)	Н	Pass
3299.84	-59.8	34 -13	-46.84	-71.04	-64.2	9 1.2	7.80)	Н	Pass

		1								
Band :		LTE Band 8	5		ľ	Temperature	:	23~25	5°C	
Test Mode	:	1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative Hum	idity :	50~52	2%	
Channel:		20407 (Lov	v)			Frequency :		824.7	,	
Test Engine	eer :	Leo Liao				Polarization :	:	Vertic	al	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	ound more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna F	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1649.92	-58.9	95 -13	-45.95	-69.08	-62.2	0 0.92	6.32	2	V	Pass
2474.88	-50.8	30 -13	-37.80	-70.34	-53.3	5 1.20	5.90)	V	Pass
3299.84	-60.1	7 -13	-47.17	-72.60	-64.6	2 1.20	7.80)	V	Pass

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Band :		LTE Band 5	5			Tem	perature :		23~2	25°C	
Test Mode :		1.4MHz QF	SK RB	Size 1 Offse	et 0	Rela	ative Humic	dity:	50~5	52%	
Channel :		20525 (Mid	dle)			Free	quency:		836.	5	
Test Engine	er:	Leo Liao	eo Liao				arization :		Horiz	zontal	
Remark :		Spurious e	Spurious emissions within 30-10			rmor	nic were fou	nd more	thar	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
1671.92	-56.1	11 -13 -43.11 -69.03			-59.0	8	0.88	6.00)	Н	Pass
2507.88	-47.3	31 -13 -34.31 -69.82			-49.9	92	1.08	.08 5.84 H		Н	Pass
3343.84	-61.4	l9 -13	-48.49	-72.09	-65.8	36	1.14	7.66	6	Н	Pass

		ı								
Band :		LTE Band 5	5		ľ	Temperature :	:	23~2	5°C	
Test Mode	:	1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative Humi	idity :	50~5	2%	
Channel:		20525 (Mid	ldle)			Frequency:		836.5	5	
Test Engine	eer:	Leo Liao				Polarization :		Vertic	cal	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	und more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gair	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1671.92	-58.7	'6 -13	-45.76	-69.39	-61.7	3 0.88	6.00)	V	Pass
2507.88	-51.5	59 -13	-38.59	-70.39	-54.2	0 1.08	5.84	ļ	V	Pass
3343.84	-59.5	57 -13	-46.57	-71.40	-63.9	4 1.14	7.66	3	V	Pass

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Band :		LTE Band	5			Tem	perature :		23~2	25°C	
Test Mode :		1.4MHz QF	PSK RB	Size 1 Offs	et 0	Rela	ative Humic	dity:	50~5	52%	
Channel :		20643 (Hig	h)			Fred	quency :		848.	3	
Test Engine	er:	Leo Liao					arization :		Horiz	zontal	
Remark :		Spurious e	urious emissions within 30-10th				nic were fou	nd more	thar	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
1695.52	-55.0	7 -13	-42.07	-68.34	-58.0)6	0.75	5.89	9	Н	Pass
2543.28	-46.5	3 -13	-33.53	-69.61	-49.2	24	1.12	5.98	3	Н	Pass
3391.04	-60.9	9 -13	-47.99	-72.19	-65.3	39	1.25	7.80)	Н	Pass

		I								
Band :		LTE Band 5	5		ľ	Temperature	:	23~2	5°C	
Test Mode	•	1.4MHz QF	PSK RB	Size 1 Offs	et 0	Relative Hum	nidity :	50~5	2%	
Channel:		20643 (Hig	h)			Frequency:		848.3	3	
Test Engine	eer :	Leo Liao				Polarization		Vertic	cal	
Remark:		Spurious e	missions	within 30-	10th har	rmonic were fo	ound more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1695.52	-57.7	'0 -13	-44.70	-68.68	-60.6	9 0.75	5.89)	V	Pass
2543.28	-50.3	36 -13	-37.36	-70.49	-53.0	7 1.12	5.98	3	V	Pass
3391.04	-59.7	7 -13	-46.77	-72.20	-64.1°	7 1.25	7.80)	V	Pass

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Band :		LTE Band	5			Temperature :		23~25°C		
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	idity :	50~5	2%	
Channel :		20415 (Lov	v)			Frequency:		825.5	5	
Test Engine	er:	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	10th ha	rmonic were fo	und more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)	
1648.48	-56.3	35 -13	-43.35	-69.27	-59.6	0.92	6.32	2	Н	Pass
2472.72	-49.1	2 -13	-13 -36.12 -70.56 -5			37 1.2	5.90)	Н	Pass
3296.96	-61.0	00 -13	-48.00	-71.60	-65.4	5 1.2	7.80)	Н	Pass

Band :		LTE Band 8	5			Temperature	:	23~25	5°C	
Test Mode	:	3MHz QPS	K RB Si	ze 1 Offset	0	Relative Hun	nidity :	50~52	2%	
Channel:		20415 (Lov	v)			Frequency:		825.5	l	
Test Engine	eer:	Leo Liao				Polarization	•	Vertic	al	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	ound more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna F	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	(dB)	(dBi)	(H/V)	
1648.48	-57.9	93 -13	-44.93	-68.56	-61.18	8 0.92	6.32	2	V	Pass
2472.72	-50.4	l9 -13	-37.49	-70.17	-53.0	4 1.20	5.90)	V	Pass
3296.96	-59.6	37 -13	-46.67	-71.50	-64.12	2 1.20	7.80)	V	Pass

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Band :		LTE Band (5			Temp	erature :		23~25°C			
Test Mode		3MHz QPS	K RB Si	ze 1 Offset	0	Relati	ve Humidit	y :	50~529	%		
Channel :		20525 (Mid	ldle)			Frequ	ency:		836.5			
Test Engine	er:	Leo Liao	o Liao				ization :		Horizo	ntal		
Remark :		Spurious e	urious emissions within 30-10t				nic were fou	nd mo	re than	20dB below	limit line.	
Frequency	ERF	Limit	Over	SPA	S	.G.	TX Cable	TX A	ntenna	Polarization	Result	
			Limit	Reading	Po	wer	loss	G	ain			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dl	Bm)	(dB)	(0	lBi)	(H/V)		
1670.48	-56.5	8 -13	-13 -43.58 -69.50			9.55	0.88	6	.00	Н	Pass	
2505.72	-49.1	9 -13	-13 -36.19 -70.64			1.80	1.08	5	.84	Н	Pass	
3340.96	-61.4	1 -13	-48.41	-72.01	-65	5.78	1.14	7	.66	Н	Pass	

		1							
Band :		LTE Band	5			Temperatu	re:	23~25°C	
Test Mode	:	3MHz QPS	K RB Si	ze 1 Offset	0	Relative H	umidity:	50~52%	
Channel :		20525 (Mid	ldle)			Frequency		836.5	
Test Engine	eer :	Leo Liao				Polarizatio	n :	Vertical	
Remark :		Spurious e	missions	within 30-	10th harmo	nic were fou	nd more th	an 20dB below	limit line.
Frequency	ERF	P Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenr Gain	a Polarization	Result
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1670.48	-57.2	26 -13	-44.26	-67.89	-60.23	0.88	6.00	V	Pass
2505.72	-51.5	55 -13	-38.55	-70.65	-54.16	1.08	5.84	V	Pass
3340.96	-59.8	8 -13	-46.88	-71.71	-64.25	1.14	7.66	V	Pass

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Band :		LTE Band 5	5			Tem	perature :		23~25°C		
Test Mode :		3MHz QPS	K RB Si	ze 1 Offset	0	Rela	ative Humic	dity:	50~5	52%	
Channel :		20635 (Hig	h)			Fred	quency :		847.	5	
Test Engine	er:	Leo Liao	Liao				arization:		Horiz	zontal	
Remark :		Spurious e	urious emissions within 30-10tl				nic were fou	nd more	thar	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
1692.48	-55.8	37 -13	-42.87	-69.14	-58.8	6	0.75	5.89	9	Н	Pass
2538.72	-47.8	2 -13	-13 -34.82 -70.40 -			3	1.12	5.98 H		Н	Pass
3384.96	-60.5	55 -13	-47.55	-71.75	-64.9	5	1.25	7.80)	Н	Pass

Band :		LTE Band	5			Temperature	:	23~25°C		
Test Mode		3MHz QPS	K RB Si	ze 1 Offset	0	Relative Hun	nidity :	50~52	2%	
Channel :		20635 (Hig	h)			Frequency :		847.5	;	
Test Engine	er:	Leo Liao				Polarization	:	Vertic	al	
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	ound more	than	20dB below	limit line.
Frequency (MHz)	ERF		Over Limit (dB)	SPA Reading (dBm)	S.G. Powe (dBm	er loss	e TX Ante Gaii (dBi	n	Polarization (H/V)	Result
1692.48	-58.0	, , ,	-45.03	-69.01	-61.02	, ,	5.89		V	Pass
2538.72	-50.3	38 -13	-37.38	-70.50	-53.09	9 1.12	5.98	3	V	Pass
3384.96	-59.3	30 -13				0 1.25	7.80)	V	Pass

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Band :		LTE Band 5	5			Temperature :		23~25°C		
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humic	dity:	50~5	52%	
Channel :	2	20425 (Low	/)			Frequency:		826.	5	
Test Enginee	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :	,	Spurious er	nissions	within 30-1	Oth har	rmonic were fou	nd more	than	20dB below	limit line.
Frequency	ERP	Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz) (dBm) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
1648.68	-54.9 [°]	7 -13	-41.97	-67.89	-58.2	2 0.92	6.32	2	Н	Pass
2473.02	-48.9	3 -13	-35.93	-70.40	-51.4	8 1.2	5.90)	Н	Pass
3297.36	-60.9	5 -13	-47.95	-71.55	-65.4	0 1.2	7.80)	Н	Pass

		i									
Band :		LTE Band 5	5		ľ	Temperature :	:	23~25°C			
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hum	idity :	50~52%			
Channel :		20425 (Lov	v)			Frequency:		826.5			
Test Engine	er:	Leo Liao				Polarization :		Vertical			
Remark:		Spurious e	missions	within 30-	10th har	monic were fo	und more	than 20dB bel	ow limit line.		
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna Polarizati	on Result		
			Limit	Reading	Powe	r loss	Gaiı	า			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)			
1648.68	-58.1	1 -13	-45.11	-68.74	-61.36	6 0.92	6.32	2 V	Pass		
2473.02	-49.9	0 -13	-36.90	-69.84	-52.4	5 1.20	5.90) V	Pass		
3297.36	-59.6	60 -13	-46.60	-71.43	-64.0	5 1.20	7.80) V	Pass		

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Band :		LTE Band	5			Temperature :		23~25°C		
Test Mode	:	5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humic	dity:	50~5	2%	
Channel :		20525 (Mic	ldle)			Frequency:		836.5		
Test Engine	er:	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	10th har	monic were fou	ınd more	than	20dB below	limit line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1668.68	-55.9	7 -13	-42.97	-68.89	-58.9	4 0.88	6.00)	Н	Pass
2503.02	-47.3	0 -13	-34.30	-69.74	-49.9 ⁻	1 1.08	5.84	1	Н	Pass
3337.36	-60.0	4 -13	-47.04	-70.64	-64.4	1 1.14	7.66	3	Н	Pass

		ı								
Band :		LTE Band 8	5		ľ	Temperature	:	23~2	5°C	
Test Mode	:	5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hum	idity :	50~5	2%	
Channel :		20525 (Mid	ldle)			Frequency:		836.5	5	
Test Engine	eer:	Leo Liao				Polarization :		Vertic	al	
Remark :		Spurious e	missions	within 30-	10th har	rmonic were fo	und more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1668.68	-58.2	22 -13	-45.22	-68.85	-61.19	9 0.88	6.00)	V	Pass
2503.02	-49.5	57 -13	-36.57	-69.63	-52.18	8 1.08	5.84	ļ	V	Pass
3337.36	-59.2	25 -13	-46.25	-71.08	-63.62	2 1.14	7.66	3	V	Pass

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Band :		LTE Band	5			Temperature	:	23~2	25°C	
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hum	idity :	50~5	52%	
Channel :		20625 (Hig	h)			Frequency:		846.	.5	
Test Engine	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th hai	rmonic were fo	ound more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi	i)	(H/V)	
1688.68	-56.2	26 -13 -43.26 -69.53 -5		-59.2	5 0.75	5.89 H		Н	Pass	
2533.02	-47.5	57 -13 -34.57 -70.27 -50		-50.2	8 1.12	5.98	3	Н	Pass	
3377.36	-60.5	58 -13	-47.58	-71.78	-64.9	8 1.25	7.80	0 H Pas		

Band :		LTE Band	5		ŀ	Temperature	:	23~25°C	
Test Mode		5MHz QPS	K RB S	ize 1 Offset	0	Relative Hum	nidity :	50~52%	
Channel :		20625 (Hig	h)			Frequency:		8465	
Test Engine	er:	Leo Liao				Polarization	:	Vertical	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	ound more	than 20dB be	elow limit line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna Polariza	tion Result
			Limit	Reading	Powe	r loss	Gaiı	า	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	
1688.68	-58.5	4 -13	-45.54	-69.52	-61.5	3 0.75	5.89) V	Pass
2533.02	-50.7	6 -13	-37.76	-70.71	-53.4	7 1.12	5.98	8 V	Pass
3377.36	-58.8	4 -13	-45.84	-71.27	-63.2	4 1.25	7.80) V	Pass

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Band :		LTE Band 5	5			Temperature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et O	Relative Humi	dity:	50~5	2%	
Channel :		20450 (Lov	v)			Frequency:		829		
Test Engine	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th hai	rmonic were fou	ınd more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
1649.18	-55.6	52 -13	-42.62	-68.54	-58.8	7 0.92	6.32	2	Н	Pass
2473.77	-47.7	71 -13 -34.71 -69.95 -5			-50.2	6 1.2	5.90)	Н	Pass
3298.36	-60.8	3 -13	-47.83	-71.43	-65.2	8 1.2	7.80)	Н	Pass

Band :		LTE Band 5	5			Temperatur	e :	23~25°(
Test Mode	•	10MHz QP	SK RB S	Size 1 Offse		Relative Hu		50~52%		
Channel :		20450 (Lov	v)			Frequency :		829		
Test Engine	er:	Leo Liao				Polarization):	Vertical		
Remark :		Spurious emissions within 30-10th			10th har	monic were	found more	than 20	dB below	limit line.
Frequency	ERF		Over Limit	SPA Reading	S.G.	er loss	Gai	1	larization	Result
(MHz) 1649.18	(dBn	, , ,	(dB) -44.51	(dBm) -68.14	(dBm	, ,	(dBi	,	(H/V) ∨	Pass
2473.77	-49.3	_	-36.30	-69.46	-51.8		5.90		V	Pass
3298.36	-59.3				-63.78	8 1.20	7.80)	V	Pass

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Band :		LTE Band	5			Tem	perature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	dity:	50~5	52%	
Channel :		20525 (Mid	ldle)			Fred	quency :		836.	5	
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10t			10th ha	rmor	nic were fou	nd more	thar	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
1664.18	-57.1	14 -13 -44.14 -70.06 -		-60.1	11	0.88	6.00		Н	Pass	
2496.27	-49.4	45 -13 -36.45 -70.94 -5		-52.0)6	1.08	5.84 H		Pass		
3328.36	-61.7	7 0 -13	-48.70	-72.30	-66.0)7	1.14	7.66	6	Н	Pass

Band :		LTE Band 5	=			Tomporotur		22 2	E°C	
bana :		LIE Band :)			Temperature)	23~2	5 C	
Test Mode :	:	10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hur	nidity :	50~5	2%	
Channel :		20525 (Mid	ldle)			Frequency :		836.5	5	
Test Engine	er:	Leo Liao Spurious emissions within 30-10th				Polarization	:	Vertic	cal	
Remark:		Spurious e	missions	within 30-	10th har	monic were f	ound more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cabl	e TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	(dB)	(dBi	i)	(H/V)	
1664.18	-60.4	5 -13	-47.45	-71.08	-63.42	2 0.88	6.00)	V	Pass
2496.27	-52.4	5 -13	-39.45	-71.28	-55.0	6 1.08	5.84	1	V	Pass
3328.36	-59.7			-64.1	5 1.14	7.66	6	V	Pass	

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Band :		LTE Band	5			Tem	perature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et O	Rela	ative Humic	dity:	50~5	52%	
Channel :		20600 (Hig	h)			Fred	quency :		844		
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10t			10th ha	rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Pow	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
1679.18	-55.8	35 -13	-42.85	-69.12	-58.8	34	0.75	5.89	9	Н	Pass
2518.77	-45.5	52 -13 -32.52 -68.81 -4		-48.2	23	1.12	5.98 H		Н	Pass	
3358.36	-60.7	' 3 -13	-47.73	-71.93	-65.1	3	1.25	7.80)	Н	Pass

Band :		LTE Band	5		ľ	Temperature	:	23~25°C		
Test Mode	:	10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hun	nidity :	50~52%		
Channel :		20600 (Hig	h)			Frequency:		844		
Test Engine	eer :	Leo Liao Spurious emissions within 30-10t				Polarization	:	Vertical		
Remark :		Spurious e	missions	within 30-	10th har	monic were fo	ound more	than 20dB I	below lir	nit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polariz	ation F	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/\	V)	
1679.18	-58.0	7 -13	-45.07	-69.05	-61.0	6 0.75	5.89) V		Pass
2518.77	-49.9	92 -13	-36.92	-70.24	-52.63	3 1.12	5.98	8 V		Pass
3358.36	-59.6				-64.00	6 1.25	7.80) V		Pass

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Band :		LTE Band 7	7		1	Tempe	erature :		23~2	25°C	
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relati	ve Humid	dity:	50~5	52%	
Channel :		20775 (Lov	v)			Frequ	ency:		2502	2.5	
Test Engine	er:	Leo Liao				Polari	zation :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th hai	monic	were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. т	X Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	ı)	(dB)	(dBi)	(H/V)	
5000.68	-42.6	69 -25	-17.69	-74.67	-54.4	4	0.95	12.7	0	Н	Pass
7501.02	-39.5	52 -25 -14.52 -76.41 -49		-49.7	6	1.46	11.7	0	Н	Pass	
10001.36	-39.4	4 -25	-14.44	-77.91	-50.2	3	1.31	12.1	0	Н	Pass

Band :		LTE Band	7		- 1	Temperature :		23~25°C	
Test Mode	:	5MHz QPS	K RB S	ize 1 Offset	0 I	Relative Humi	dity:	50~52%	
Channel :		20775 (Lov	v)		ı	requency:		2502.5	
Test Engine	eer :	Leo Liao			ı	Polarization :		Vertical	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB belo	w limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarizatio	n Result
			Limit	Reading	Powe	r loss	Gair	1	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	
5000.68	-43.0	00 -25	-18.00	-74.23	-54.75	0.95	12.7) V	Pass
7501.02	-38.9	94 -25	-13.94	-75.82	-49.18	3 1.46	11.70) V	Pass
10001.36	-40.7	' 9 -25				3 1.31	12.10) V	Pass

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Band :		LTE Band 7	7			Tem	perature :		23~2	25°C	
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Rela	ative Humic	dity:	50~5	52%	
Channel :		21100 (Mid	dle)			Fred	quency:		2535	5	
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th ha	rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Pow	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
5065.68	-34.0	5 -25	-9.05	-68.57	-45.8	80	0.95	12.7	0	Н	Pass
7598.52	-39.5	57 -25 -14.57 -76.46 -49			-49.8	31	1.46	11.7	0	Н	Pass
10131.36	-38.9	2 -25	-13.92	-77.39	-49.7	' 1	1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7			Temperat	ure :		23~2	25°C	
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Relative H	lumi	dity:	50~5	52%	
Channel :		21100 (Mid	dle)			Frequenc	y :		2535	5	
Test Engine	er:	Leo Liao				Polarizati	on :		Verti	cal	
Remark :		Spurious emissions within 30-10th I			10th har	monic we	re fou	ınd more	thar	20dB below	limit line.
Frequency	EIRI (dBn		Over Limit (dB)	SPA Reading (dBm)	S.G. Powe (dBm	er los	S	TX Ante Gair (dBi	1	Polarization (H/V)	Result
5065.68	-30.5	, , ,	-5.51	-66.53	-42.20	<i>'</i>		12.7		\ \	Pass
7598.52	-39.6	66 -25	-14.66	-76.54	-49.9	0 1.4	6	11.70)	V	Pass
10131.36	-40.7				-51.49	9 1.3	31	12.10	0 V Pass		

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Band :		LTE Band 7	7			Temp	erature :		23~2	25°C	
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relati	ive Humic	dity:	50~5	52%	
Channel :		21425 (Hig	h)			Frequ	iency :		2567	' .5	
Test Engine	er:	Leo Liao				Polar	ization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th ha	rmonio	c were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G	. 1	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	າ)	(dB)	(dBi	i)	(H/V)	
5130.68	-36.1	12 -25 -11.12 -70.23 -4			-47.8	7	0.95	12.7	0	Н	Pass
7696.02	-39.9	99 -25 -14.99 -75.88 -4			-49.8	3	1.46	11.3	0	Н	Pass
10261.36	-39.5	50 -25	-14.50	-77.97	-50.2	9	1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7			Tomporotu		22 (05°C		
Danu :		LIE Band I				Temperatu	ire:	23~2	25 C		
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Relative H	umidity :	50~5	52%		
Channel :		21425 (Hig	h)			Frequency	<i>'</i> :	2567	7.5		
Test Engine	er:	Leo Liao				Polarizatio	n :	Verti	cal		
Remark :		Spurious er	Spurious emissions within 30-10th			monic were	e found more	thar	20dB below	limit line.	
Frequency	EIRI	P Limit	Over	SPA	S.G.				Polarization	Result	
			Limit	Reading	Powe	er loss	s Gai	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB) (dB	i)	(H/V)		
5130.68	-33.1	0 -25	-8.10	-68.4	-44.8	5 0.95	5 12.7	0	V	Pass	
7696.02	-40.2	24 -25	-15.24	-76.12	-50.08	8 1.46	3 11.3	80	V	Pass	
10261.36	-41.4	3 -25	-16.43	-77.99	-52.22	2 1.31	12.1	0	0 V Pass		

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Band :		LTE Band 7	7			Tem	perature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	lity :	50~5	52%	
Channel:		20800 (Lov	v)			Fred	quency :		2505	;	
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th ha	rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G	•	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi)	(H/V)	
5001.18	-37.5	52 -25 -12.52 -70.84 -			-49.2	7	0.95	12.7	0	Н	Pass
7501.77	-39.6	67 -25 -14.67 -76.56 -4			-49.9)1	1.46	11.70 H		Pass	
10002.36	-38.7	' 4 -25	-13.74	-77.21	-49.5	3	1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7			Temperature	٠.	23~2	25°C	
Baria .		LIL Band I				Temperature	.	202	.5 0	
Test Mode	:	10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hur	nidity :	50~5	52%	
Channel :		20800 (Lov	v)			Frequency:		2505	;	
Test Engine	eer :	Leo Liao				Polarization	:	Verti	cal	
Remark :		Spurious emissions within 30-10th			10th har	monic were f	ound more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	e TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	r loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i)	(H/V)	
5001.18	-33.8	5 -25	-8.85	-68.91	-45.60	0.95	12.7	0	V	Pass
7501.77	-39.6	34 -25	-14.64	-76.52	-49.88	8 1.46	11.7	0	V	Pass
10002.36	-40.7	'8 -25				7 1.31	12.1	0	Pass	

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Band :		LTE Band 7	7			Ten	nperature :		23~2	25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	lity :	50~5	52%	
Channel :		21100 (Mid	dle)			Free	quency:		2535	5	
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			Oth ha	rmoi	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRE	P Limit	Over	SPA	S.G	i.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Pow	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBr	n)	(dB)	(dBi	i)	(H/V)	
5061.18	-31.8				-43.5	56	0.95	12.7	0	Н	Pass
7591.77	-39.6	66 -25 -14.66 -76.55 -4			-49.9	90	1.46	11.7	0	Н	Pass
10122.36	-38.7	5 -25	-13.75	-77.22	-49.5	54	1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7			Temperature :		23~2	5°C	
Test Mode	:	10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Humi	dity:	50~5	2%	
Channel:		21100 (Mid	dle)			Frequency :		2535		
Test Engine	eer :	Leo Liao				Polarization :		Vertic	cal	
Remark:		Spurious emissions within 30-10th			10th har	monic were fou	ınd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er loss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
5061.18	-30.0	3 -25	-5.03	-66.13	-41.78	8 0.95	12.7	0	V	Pass
7591.77	-39.0	00 -25	-14.00	-75.88	-49.2	4 1.46	11.70)	V	Pass
10122.36	-40.5				-51.3	2 1.31	12.1	0	V	Pass

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Band :		LTE Band 7	7		•	Temperature	:	23~2	5°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et O	Relative Hum	idity :	50~5	2%	
Channel :		21400 (Hig	h)			Frequency:		2565		
Test Engine	er:	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious emissions within 30-10th			10th har	rmonic were fo	und more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
5121.18	-35.0	.06 -25 -10.06 -69.30			-46.8	1 0.95	12.70 H		Н	Pass
7681.77	-40.7	77 -25 -15.77 -76.66 -5			-50.6	1 1.46	11.3	0	Н	Pass
10242.36	-39.3	6 -25	-14.36	-77.83	-50.1	5 1.31	12.1	12.10 H		

Band :		LTE Band 7	7			Temperature	:	23~25°C		
Test Mode :		10MHz QP	SK RB	Size 1 Offse	et 0	Relative Hum	nidity :	50~52%		
Channel :		21400 (Hig	h)		ı	Frequency:		2565		
Test Engine	er:	Leo Liao			ı	Polarization	:	Vertical		
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	ound more	than 20dB	below	limit line.
Frequency	EIRE	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polari	zation	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/	/ V)	
5121.18	-32.9	0 -25	-7.90	-68.33	-44.65	0.95	12.7	0 \	/	Pass
7681.77	-40.4	7 -25	-15.47	-76.35	-50.3	1 1.46	11.3	0 \	/	Pass
10242.36	-40.9	9 -25				3 1.31	12.1			

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Band :		LTE Band 7	7			Temperature	:	23~2	5°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	t 0	Relative Hum	idity :	50~5	2%	
Channel:		20825 (Lov	/)			Frequency:		2507	.5	
Test Engine	er:	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious emissions within 30-10th				rmonic were fo	ound more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dB)	(H/V)	
5001.68	-41.4				-53.2	20 0.95	12.7	12.70 H		Pass
7502.52	-38.6	69 -25 -13.69 -75.58 -			-48.9	3 1.46	11.7	11.70 H		
10003.36	-38.7	1 -25	-13.71	-77.18	-49.5	50 1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7		ľ	Temperature	:	23~25	°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity :	50~52	%	
Channel :		20825 (Lov	v)			Frequency :		2507.5	5	
Test Engine	er:	Leo Liao				Polarization :		Vertica	al	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 2	0dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna P	olarization	Result
			Limit	Reading	Powe	r loss	Gair	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
5001.68	-39.6	5 -25	-14.65	-72.86	-51.40	0.95	12.7	0	V	Pass
7502.52	-39.0	6 -25	-14.06	-75.94	-49.30	0 1.46	11.7	0	V	Pass
10003.36	-41.1	3 -25				2 1.31	12.1	0 V Pass		

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Band :		LTE Band 7	7			Tem	perature :		23~2	25°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	t 0	Rela	ative Humic	dity:	50~5	52%	
Channel :		21100 (Mid	dle)			Fred	quency :		2535	5	
Test Engine	er:	Leo Liao				Pola	arization:		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th ha	rmor	nic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n)	(dB)	(dBi	i)	(H/V)	
5056.68	-42.2				-54.0	3	0.95	12.7	0	Н	Pass
7585.02	-39.4	43 -25 -14.43 -76.32 -4			-49.6	57	1.46	11.7	0	Н	Pass
10131.36	-38.6	65 -25	-13.65	-77.12	-49.4	4	1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7		ľ	Temperature	:	23~25°C		
Test Mode		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hun	nidity :	50~52%)	
Channel :		21100 (Mid	dle)			Frequency:		2535		
Test Engine	er:	Leo Liao	eo Liao			Polarization	:	Vertical		
Remark :		Spurious e	purious emissions within 30-10th			monic were fo	ound more	than 20	dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Pol	arization	Result
			Limit	Reading	Powe	r loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
5056.68	-43.0	0 -25	-18.00	-73.67	-54.7	5 0.95	12.7	0	V	Pass
7585.02	-39.1	4 -25	-14.14	-76.02	-49.38	3 1.46	11.7)	V	Pass
10131.36	-40.0	5 -25	-15.05	-76.95	-50.84	4 1.31	12.1	.10 V Pas		

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Band :		LTE Band 7	7			Temperature :		23~2	5°C	
Test Mode :		15MHz QP	SK RB S	Size 1 Offse	et O	Relative Humic	dity:	50~5	2%	
Channel:		21375 (Hig	h)			Frequency:		2562	.5	
Test Engine	er :	Leo Liao				Polarization :		Horiz	ontal	
Remark :		Spurious e	purious emissions within 30-10th			rmonic were fou	nd more	than	20dB below	limit line.
Frequency	EIRE	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
5111.68	-41.2	:5 -25	-16.25	-73.23	-53.0	0.95	12.7	0	Н	Pass
7667.52	-39.8	3 -25	-14.83	-75.72	-49.6	1.46	11.3	0	Н	Pass
10223.36	-77.5	3 -25	-52.53	-77.53	-88.3	1.31	12.1	0	Н	Pass

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Band :		LTE Band 7	/			Temperatu	ıre :	23~4	25°C	
Test Mode		15MHz QP	SK RB S	Size 1 Offse	et 0	Relative H	umidity :	50~	52%	
Channel :		21375 (Hig	h)			Frequency	<i>/</i> :	2562	2.5	
Test Engine	er:	Leo Liao				Polarizatio	on :	Vert	cal	
Remark :		Spurious e	purious emissions within 30-10th			monic wer	e found more	e thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Ca	ble TX Ant	enna	Polarization	Result
			Limit	Reading	Powe	r los	s Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB) (dB	i)	(H/V)	
5111.68	-43.0	0 -25	-18.00	-73.58	-54.7	5 0.9	5 12.7	70	V	Pass
7667.52	-39.4	6 -25	-14.46	-75.34	-49.3	0 1.40	5 11.3	30	V	Pass
10223.36	-41.4	1 -25				0 1.3	1 12.	12.10 V		

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Band :		LTE Band 7	7			Tem	perature :		23~2	25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t 0	Rela	tive Humic	dity:	50~5	52%	
Channel:		20850 (Lov	v)			Freq	quency :		2510)	
Test Engine	er:	Leo Liao				Pola	rization :		Horiz	zontal	
Remark :		Spurious emissions within 30-10th			10th ha	rmon	nic were fou	nd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n)	(dB)	(dBi)	(H/V)	
5002.18	-42.8	7 -25	-17.87	-74.85	-54.6	52	0.95	12.7	0	Н	Pass
7503.27	-39.0	1 -25 -14.01 -75.90 -4			-49.2	25	1.46	11.7	0	Н	Pass
10004.36	-39.7	5 -25	-14.75	-78.22	-50.5	54 1.31 12.1			0	Н	Pass

Band :		LTE Band 7	7		ŀ	Temperature	:	23~25°C	
Test Mode		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity :	50~52%	
Channel :		20850 (Lov	v)		ı	Frequency:		2510	
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Vertical	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB be	low limit line.
Frequency	EIRI	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarizati	on Result
			Limit	Reading	Powe	r loss	Gair	1	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	
5002.18	-43.0	0 -25	-18.00	-74.19	-54.7	5 0.95	12.7	0 V	Pass
7503.27	-39.7	6 -25	-14.76	-76.64	-50.00	1.46	11.7	O V	Pass
10004.36	-40.7	5 -25				4 1.31	12.10 V		Pass

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Band :		LTE Band 7	7			Tempe	rature :		23~2	25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t O	Relativ	e Humid	dity:	50~5	52%	
Channel :		21100 (Mid	dle)			Freque	ncy :		2535	;	
Test Engine	er:	Leo Liao	eo Liao			Polariz	ation :		Horiz	zontal	
Remark :		Spurious e	purious emissions within 30-10th			rmonic v	were fou	nd more	than	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G	. тх	Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er	loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	1) ((dB)	(dBi)	(H/V)	
5052.18	-42.2	29 -25	-17.29	-74.27	-54.0	4	0.95	12.7	0	Н	Pass
7578.27	-39.7	'0 -25	-14.70	-76.59	-49.9	4	1.46	11.7	0	Н	Pass
10104.36	-39.5	54 -25	-14.54	-78.01	-50.3	3	1.31	12.1	0	Н	Pass

Band :		LTE Band 7	7		ľ	Temperature	:	23~25°	C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hun	nidity :	50~529	%	
Channel :		21100 (Mid	dle)			Frequency:		2535		
Test Engine	er:	Leo Liao	o Liao			Polarization	:	Vertica	I	
Remark :		Spurious e	ourious emissions within 30-10th			monic were fo	ound more	than 20	0dB below	limit line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Po	olarization	Result
			Limit	Reading	Powe	r loss	Gaiı	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
5052.18	-43.0	0 -25	-18.00	-74.2	-54.7	5 0.95	12.7	0	V	Pass
7578.27	-39.5	6 -25	-14.56	-76.44	-49.80	1.46	11.7)	V	Pass
10104.36	-41.1	1 -25				1.31	.31 12.10 V			Pass

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Band :		LTE Band 7	7			Tem	perature :		23~2	25°C	
Test Mode :		20MHz QP	SK RB S	Size 1 Offse	t O	Rela	ative Humic	lity :	50~5	52%	
Channel :		21350 (Hig	h)			Free	quency:		2560)	
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal	
Remark :		Spurious e	purious emissions within 30-10th			rmor	nic were fou	nd more	than	20dB below	limit line.
Frequency	EIRE	P Limit	Over	SPA	S.G	i.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Pow	er	loss	Gai	n		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)	
5102.18	-42.0	0 -25	-17.00	-73.98	-53.7	7 5	0.95	12.7	0	Н	Pass
7653.27	-40.8	0 -25 -15.80 -76.69 -5			-50.6	64	1.46	11.3	0	Н	Pass
10204.36	-39.3	1 -25	-14.31	-77.78	-50.1	10	1.31	12.1	0	Н	Pass

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Band :		LTE Band 7	/			Temperat	ure :		23~2	25°C	
Test Mode		20MHz QP	SK RB S	Size 1 Offse	et 0	Relative I	Humi	dity:	50~	52%	
Channel :		21350 (Hig	h)			Frequenc	y:		2560)	
Test Engine	eer :	Leo Liao				Polarizati	on :		Verti	cal	
Remark:		Spurious e	purious emissions within 30-10th			monic we	re fou	ınd more	thar	20dB below	limit line.
Frequency	EIRI	P Limit	Over	SPA	S.G.					Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Powe (dBm		ss B)	Gair (dBi	-	(H/V)	
5102.18	-43.0	0 -25	-18.00	-74.07	-54.7	5 0.9	95	12.7	0	V	Pass
7653.27	-40.6	66 -25	-15.66	-76.54	-50.5	0 1.4	16	11.30	0	V	Pass
10204.36	-41.5	8 -25				7 1.3	31	12.10 V			Pass

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Band :		LTE Band '	17			Temperature :		23~25°C		
Test Mode	:	5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humi	dity :	50~5	2%	
Channel :		23755 (Lov	v)			Frequency:		706.5	5	
Test Engine	er:	Leo Liao	eo Liao			Polarization :		Horiz	ontal	
Remark :		Spurious e	purious emissions within 30-10th			monic were fou	ınd more	than	20dB below	limit line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	n		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi	i)	(H/V)	
1408.68	-54.3	1 -13	-41.31	-68.52	-60.99	9 0.57	9.40)	Н	Pass
2113.02	-52.5	8 -13 -39.58 -72.24 -6			-60.28	8 0.75	0.75 10.60 H		Н	Pass
2817.36	-48.1	4 -13	-35.14	-72.51	-57.72	2 0.87	12.6	0	Н	Pass

_						_				
Band :		LTE Band '	17			Temperature	e:	23~25	5°C	
Test Mode		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hu	midity:	50~52	2%	
Channel:		23755 (Lov	v)			Frequency :		706.5	l.	
Test Engine	eer:	Leo Liao				Polarization	:	Vertic	al	
Remark :		Spurious e	ourious emissions within 30-10th			monic were	found more	than 2	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cabl	e TX Ante	enna F	Polarization	Result
			Limit	Reading	Powe	er loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1408.68	-54.3	88 -13	-41.38	-69.02	-61.0	6 0.57	9.40)	V	Pass
2113.02	-48.6	9 -13	-35.69	-71.39	-56.39	9 0.75	10.6	0	V	Pass
2817.36	-44.3	35 -13				3 0.87	12.60 V			Pass

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Band :		LTE Band	17			Tem	perature :		23~2	25°C		
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Rela	ative Humic	lity :	50~5	52%		
Channel :		23790 (Mid	ldle)			Fred	quency :		710			
Test Engine	er:	Leo Liao	o Liao			Pola	arization:		Horiz	Horizontal		
Remark :		Spurious e	ourious emissions within 30-10th h			rmor	nic were fou	nd more	than	20dB below	limit line.	
Frequency	ERF	P Limit	Over	SPA	S.G	•	TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er	loss	Gai	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)		
1415.68	-55.0)5 -13	-42.05	-69.26	-61.7	73	0.57	9.40)	Н	Pass	
2123.52	-52.1	2 -13 -39.12 -71.78 -59			-59.8	32	0.75	10.6	0	Н	Pass	
2831.36	-48.4	l5 -13	-35.45	-72.82	-58.0)3	0.87	12.6	0	Н	Pass	

Band :		LTE Band	17			Temperature		23~2	5°C	
Baria .		LIL Band	1 /			Temperature		202	5 	
Test Mode	:	5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hui	midity :	50~5	2%	
Channel:		23790 (Mid	ldle)			Frequency :		710		
Test Engine	eer :	Leo Liao				Polarization	:	Vertic	cal	
Remark :		Spurious e	purious emissions within 30-10th I			monic were t	ound more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cabl	e TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	r loss	Gaiı	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi)	(H/V)	
1415.68	-54.4	12 -13	-41.42	-69.07	-61.10	0 0.57	9.40)	V	Pass
2123.52	-50.6	32 -13	-37.62	-72.08	-58.32	2 0.75	10.6	0	V	Pass
2831.36	-43.5	51 -13	-30.51	-72.36	-53.09	09 0.87 12.60 V			V	Pass

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Band :		LTE Band	17		1	Tempera	ture :		23~25°C			
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Humidity :			50~52%			
Channel :		23825 (Hig	:3825 (High)				Frequency:			713.5		
Test Engine	er:	Leo Liao				Polarization :			Horiz	zontal		
Remark :		Spurious e	missions	within 30-1	10th hai	monic we	ere fou	nd more	than	20dB below	limit line.	
Frequency	ERF	P Limit	Over	SPA	S.G.	тхс	Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er lo	SS	Gaiı	า			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	ı) (d	B)	(dBi)	(H/V)		
1422.68	-55.3	35 -13	-42.35	-69.56	-62.0	3 0.	57	9.40)	Н	Pass	
2134.02	-50.8	31 -13	-37.81	-71.31	-58.5	1 0.	75	10.6	0	Н	Pass	
2845.36	-48.4	-13	-35.41	-72.78	-57.9	9 0.	87	12.6	0	Н	Pass	

Band :		LTE Band '	17		ŀ	Temperature :	:	23~25°C		
Test Mode :		5MHz QPS	K RB Si	ze 1 Offset	0	Relative Hum	idity :	50~52%		
Channel :		23825 (Hig	23825 (High)					713.5		
Test Engine	er:	Leo Liao			ı	Polarization :		Vertical		
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB belo	w limit line.	
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarizatio	n Result	
			Limit	Reading	Powe	r loss	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)		
1422.68	-55.1	3 -13	-42.13	-69.91	-61.8	1 0.57	9.40	V	Pass	
2134.02	-51.2	.7 -13	-38.27	-72.41	-58.97	7 0.75	10.60) V	Pass	
2845.36	-43.7	6 -13	-30.76	-72.58	-53.34	4 0.87	12.60) V	Pass	

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Band :		LTE Band 1	17			Ten	perature :		23~25°C			
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t O	Relative Humidity :			50~52%			
Channel :		23780 (Lov	3780 (Low)				Frequency:			709		
Test Engine	er:	Leo Liao				Pola	arization :		Horiz	zontal		
Remark :		Spurious e	missions	within 30-1	Oth ha	rmoı	nic were fou	nd more	than	20dB below	limit line.	
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Pow	er	loss	Gai	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBn	n)	(dB)	(dBi	i)	(H/V)		
1409.18	-55.8	34 -13	-42.84	-70.05	-62.5	52	0.57	9.40)	Н	Pass	
2113.77	-52.1	9 -13	-39.19	-71.85	-59.8	39	0.75	10.6	0	Н	Pass	
2818.36	-48.0	1 -13	-35.01	-72.38	-57.5	59	0.87	12.6	0	Н	Pass	

Band :		LTE Band	17			Temperatu	re :	23~25°C		
Test Mode		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative H	umidity :	50~52%		
Channel :		23780 (Low)				Frequency: 7			709	
Test Engine	eer: Leo Liao					Polarizatio	n :	Vertical		
Remark :		Spurious e	missions	within 30-	10th har	monic were	found more	than 2	20dB below	limit line.
Frequency (MHz)	ERF		Over Limit (dB)	SPA Reading (dBm)	S.G. Powe (dBm	er loss	Gai	n	Polarization (H/V)	Result
1409.18	-54.7	, , ,	-41.74	-69.47	-61.42	, ,	, ,	,	\ \	Pass
2113.77	-50.8	38 -13	-37.88	-72.19	-58.58	8 0.75	10.6	0	V	Pass
2818.36	-43.6	66 -13	-30.66	-72.49	-53.2	4 0.87	12.6	0	V	Pass

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Band :		LTE Band 1	17			Temperature :		23~25°C		
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et O	Relative Humi	dity :	50~52%		
Channel :		23790 (Mid	dle)			Frequency:				
Test Engine	er:	Leo Liao				Polarization :		Horiz	zontal	
Remark :		Spurious e	missions	within 30-1	10th hai	rmonic were fou	ınd more	than	20dB below	limit line.
Frequency	ERF	P Limit	Over	SPA	S.G.	. TX Cable	TX Ante	enna	Polarization	Result
			Limit	Reading	Powe	er loss	Gai	า		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n) (dB)	(dBi)	(H/V)	
1411.18	-55.0)8 -13	-42.08	-69.29	-61.7	6 0.57	9.40)	Н	Pass
2116	-52.4	·7 -13	-39.47	-72.13	-60.1	7 0.75	10.6	0	Н	Pass
2822.36	-48.4	12 -13	-35.42	-72.79	-58.0	0.87	12.6	0	Н	Pass

Band :		LTE Band '	17		ľ	Temperat	ure :		23~2	25°C	
Test Mode	:	10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Humidity :			50~52%		
Channel :		23790 (Mid	23790 (Middle)				Frequency: 7				
Test Engine	ineer : Leo Liao					Polarization :			Vertical		
Remark :		Spurious e	missions	within 30-	10th har	monic we	re fou	nd more	thar	20dB below	limit line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX C	able	TX Ante	nna	Polarization	Result
			Limit	Reading	Powe	er los	SS	Gair	1		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dl	В)	(dBi)	(H/V)	
1411.18	-54.2	.4 -13	-41.24	-68.85	-60.9	2 0.5	57	9.40)	V	Pass
2116	-51.0	0 -13	-38.00	-72.24	-58.7	0 0.7	7 5	10.60)	V	Pass
2822.36	-43.6	1 -13	-30.61	-72.45	-53.1	9.0	37	12.60)	V	Pass

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Band :		LTE Band	17			Tem	perature :		23~25°C			
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	t 0	Relative Humidity :			50~52%			
Channel :		23800 (Hig	23800 (High)				Frequency:			711		
Test Engine	er:	Leo Liao				Polarization :			Horiz	zontal		
Remark :		Spurious e	missions	within 30-1	10th ha	rmor	nic were fou	nd more	thar	20dB below	limit line.	
Frequency	ERF	P Limit	Over	SPA	S.G		TX Cable	TX Ante	enna	Polarization	Result	
			Limit	Reading	Powe	er	loss	Gai	n			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm	n)	(dB)	(dBi	i)	(H/V)		
1413.18	-54.0)5 -13	-41.05	-68.26	-60.7	'3	0.57	9.40)	Н	Pass	
2119.77	-51.3	35 -13	-38.35	-71.49	-59.0	5	0.75	10.6	0	Н	Pass	
2826.36	-47.9	00 -13	-34.90	-72.32	-57.4	-8	0.87	12.6	0	Н	Pass	

Band :		LTE Band 1	17		ŀ	Temperature	:	23~25°C	
Test Mode :		10MHz QP	SK RB S	Size 1 Offse	et 0	Relative Hum	idity :	50~52%	
Channel :		23800 (High)				Frequency:		711	
Test Engine	er:	Leo Liao			ı	Polarization :		Vertical	
Remark :		Spurious e	missions	s within 30-	10th har	monic were fo	und more	than 20dB be	low limit line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ante	nna Polarizat	ion Result
			Limit	Reading	Powe	r loss	Gair	1	
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm) (dB)	(dBi) (H/V)	
1413.18	-54.9	2 -13	-41.92	-69.69	-61.60	0.57	9.40) V	Pass
2119.77	-49.9	0 -13	-36.90	-71.78	-57.60	0.75	10.6	0 V	Pass
2826.36	-43.7	6 -13	-30.76	-72.58	-53.34	1 0.87	12.6	0 V	Pass

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3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of

the center frequency.

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the LTE base station.

2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one

minute.

3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change

was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the LTE base

station.

2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value

measured at the input to the EUT.

3. The variation in frequency was measured for the worst case.

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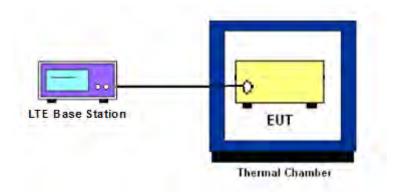
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3.8.5 Test Setup



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3.8.6 Test Result of Temperature Variation (FCC)

Band:	LTE Band 2 (QPSK)	Limit (ppm):	within authorized band
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	BW 10MHz	
Temperature (°C)	Deviation (ppm)	Result
50	0.0106	
40	0.0101	
30	0.0011	
20(Ref.)	0.0000	
10	0.0112	PASS
0	0.0011	
-10	0.0122	
-20	0.0005	
-30	0.0011	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Band :	LTE Band 4 (QPSK)	Limit (ppm):	within authorized band
	BW 10MHz		
Temperature (°C)	Deviation (ppm)		Result
50	0.0012		
40	0.0006		
30	0.0006		
20(Ref.)	0.0000		
10	0.0017		PASS
0	0.0012		
-10	0.0006		
-20	0.0006		
-30	0.0000		

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Band :	LTE Band 5 (QPSK)	Limit (ppm):	2.5

Temperature (°C)	BW 10MHz Deviation (ppm)	Result
50	0.0024	
40	0.0012	
30	0.0012	
20(Ref.)	0.0000	
10	0.0024	PASS
0	0.0012	
-10	0.0012	
-20	0.0012	
-30	0.0036	

Band :	LTE Band 7 (QPSK)	Limit (ppm):	within authorized band
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Temperature (°C)	BW 10MHz Deviation (ppm)	Result
50	0.0122	
40	0.0118	
30	0.0126	
20(Ref.)	0.0000	
10	0.0004	PASS
0	0.0008	
-10	0.0012	
-20	0.0016	
-30	0.0020	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Band: LTE Band 17 (QPSK) Limit (ppm): within authorized band

	BW 10MHz	
Temperature (°C)	Deviation (ppm)	Result
50	0.0028	
40	0.0014	
30	0.0014	
20(Ref.)	0.0000	
10	0.0042	PASS
0	0.0014	
-10	0.0028	
-20	0.0014	
-30	0.0028	

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3.8.7 Test Result of Voltage Variation (FCC)

Band	Bandwidth	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
		4.35	0.0112		
LTE Band 2	10M	Normal	0.0000	(Note 3.)	PASS
		3.70	0.0011		
		4.35	0.0006		
LTE Band 4	10M	Normal	0.0000	(Note 3.)	PASS
		3.70	0.0012		
LTE Band 5	10M	4.35	0.0012		PASS
		Normal	0.0000	2.5	
		3.70	0.0012		
		4.35	0.0008		
LTE Band 7	10M	Normal	0.0000	(Note 3.)	PASS
		3.70	0.0114		
		4.35	0.0028		
LTE Band 17	10M	Normal	0.0000	(Note 3.)	PASS
		3.70	0.0014		

Note:

- 1. Normal Voltage = 3.90V.
- 2. The manufacturer declared that the EUT could work properly between voltage 3.70V ~ 4.35V.
- 3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Jan. 04, 2015~ Jan. 05, 2015	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	HD20120425	-40℃~150℃	Feb. 21, 2014	Jan. 04, 2015~ Jan. 05, 2015	Feb. 20, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jan. 05, 2015~ Jan. 14, 2015	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Jan. 05, 2015~ Jan. 14, 2015	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Jan. 05, 2015~ Jan. 14, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jan. 05, 2015~ Jan. 14, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	Jan. 05, 2015~ Jan. 14, 2015	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jan. 05, 2015~ Jan. 14, 2015	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Jan. 05, 2015~ Jan. 14, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001985	100Vac~250Vac	Mar. 25, 2014	Jan. 05, 2015~ Jan. 14, 2015	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jan. 05, 2015~ Jan. 14, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jan. 05, 2015~ Jan. 14, 2015	NCR	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Jul. 17, 2014	Jan. 05, 2015~ Jan. 23, 2015	Jul. 16, 2015	ERP/EIRP (OTA02-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000M Hz	N/A	Jan. 05, 2015~ Jan. 23, 2015	N/A	ERP/EIRP (OTA02-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Jan. 05, 2015~ Jan. 23, 2015	N/A	ERP/EIRP (OTA02-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Jan. 05, 2015~ Jan. 23, 2015	N/A	ERP/EIRP (OTA02-SZ)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.9 dB
Confidence of 95% (U = 2Uc(y))	3.9 dB

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