FCC TEST REPORT

(PART 27)

REPORT NO.:	RF120111C05-2
MODEL NO.:	3RN13
FCC ID:	CO2-2105
RECEIVED:	Jan. 11, 2012
TESTED:	Jun. 13 ~ Jun. 14, 2012
ISSUED:	Jun. 25, 2012

APPLICANT:	Folksy LLC
ADDRESS:	Suite 370, 285 Liberty Street NE, Salem, OR 97301

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120111C05-2	Original release	Jun. 25, 2012

1 CERTIFICATION

PRODUCT:	Module
MODEL:	3RN13
BRAND:	Folksy LLC
APPLICANT:	Folksy LLC
TESTED:	Jun. 13 ~ Jun. 14, 2012
TEST SAMPLE:	ENGINEERING SAMPLE
TEST STANDARDS:	**FCC Part 27, Subpart C, L**
	FCC Part 2

The above equipment (model: 3RN13) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : _____ , DATE : Jun. 25, 2012
Andrea Hsia / Specialist

APPROVED BY : _____ , DATE : Jun. 25, 2012
Gary Chang / Technical Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

OPERATING BAND: 704–716 MHz			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
2.1046 27.50(C)(10)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(g)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(g)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(g)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(g)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -35.87dB at 1429.00MHz.

OPERATING BAND: 1710~1755 MHz			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
2.1046 27.50(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is –32.85dB at 3468.00MHz.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver Agilent	N9038A	MY51210203	Dec. 22, 2011	Dec. 21, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2011	Dec. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 20, 2011	Dec. 19, 2012
Preamplifier EMCI	EMC 012645	980115	Dec. 30, 2011	Dec. 29, 2012
Preamplifier EMCI	EMC 330H	980112	Dec. 30, 2011	Dec. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 21, 2011	Oct. 20, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Jan. 02, 2012	Jan. 01, 2013
RF signal cable Worken	RG-213	NA	Jan. 02, 2012	Jan. 01, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Mar. 23, 2012	Mar. 22, 2013
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY50266653	Sep. 28, 2011	Sep. 27, 2012
Radio Communication Analyzer	MT8820C	6201010284	Aug. 01, 2011	Jul. 31, 2012

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 9.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 460141.

5. The IC Site Registration No. is IC 7450F-4.

3 GENERAL INFORMATION

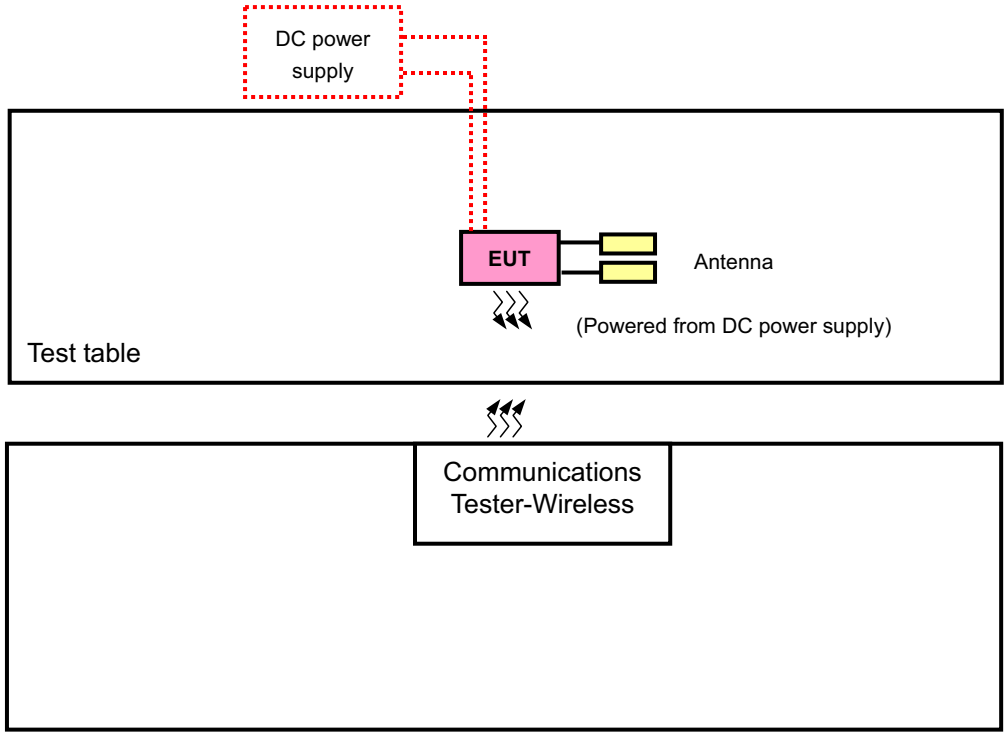
3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Module	
MODEL NO.	3RN13	
NOMINAL VOLTAGE	4.2Vdc	
MODULATION TECHNOLOGY	**LTE Band 17**	QPSK, 16QAM
	LTE Band 4	QPSK, 16QAM
FREQUENCY RANGE	**LTE Band 17 Channel Bandwidth: 5MHz**	706.5MHz ~ 713.5MHz
	LTE Band 17 Channel Bandwidth: 10MHz	709.0MHz ~ 711.0MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~1750.0MHz
MAX. ERP POWER (W)	**LTE Band 17**	5MHz: 0.20W 10MHz: 0.19W
MAX. EIRP POWER (W)	**LTE Band 4**	5MHz:0.40W 10MHz: 0.43W
CATEGORY	LTE: 3	
ANTENNA TYPE	**LTE Band 17**	Fixed antenna with 2dBi gain
	LTE Band 4	Fixed antenna with 2dBi gain
I/O PORTS	Refer to user's manual	
DATA CABLE	NA	
ACCESSORY DEVICES	NA	

NOTE:

The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	POWER SUPPLY	TOP WARD	6603A	725906	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

3.4 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below:

LTE Band 17

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
					SIZE / OFFSET
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 / 24
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 / 49
FREQUENCY STABILITY	23755 to 23825	23790	5MHz	QPSK	1 / 24
	23780 to 23800	23790	10MHz	QPSK	1 / 49
OCCUPIED BANDWIDTH	23755 to 23825	23790	5MHz	QPSK, 16QAM	25 / 0
	23780 to 23800	23790	10MHz	QPSK, 16QAM	50 / 0
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 / 24
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 / 49
BAND EDGE	23755 to 23825	23755	5MHz	QPSK	1 / 0, 25 / 0
	23755 to 23825	23825	5MHz	QPSK	1 / 24, 25 / 0
	23780 to 23800	23780	10MHz	QPSK	1 / 0, 50 / 0
	23780 to 23800	23800	10MHz	QPSK	1 / 49, 50 / 0
CONDCUDETED EMISSION	23755 to 23825	23790	5MHz	QPSK	1 / 24
	23780 to 23800	23790	10MHz	QPSK	1 / 49
RADIATED EMISSION	23755 to 23825	23790	5MHz	QPSK,	1 / 24, 25 / 0
	23755 to 23825	23790	5MHz	16QAM	1 / 24, 25 / 0
	23780 to 23800	23790	10MHz	QPSK	1 / 49, 50 / 0
	23780 to 23800	23790	10MHz	16QAM	1 / 49, 50 / 0

*Conducted emission is only performed for highest power configuration.
**Radiated emission is performed for full RB size and highest power configuration.

LTE Band 4

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
					SIZE / OFFSET
EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 / 24
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	1 / 0
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 / 0
FREQUENCY STABILITY	19975 to 20375	20175	5MHz	QPSK	1 / 24
	20000 to 20350	20175	10MHz	QPSK	1 / 0
OCCUPIED BANDWIDTH	19975 to 20375	20175	5MHz	QPSK, 16QAM	25 / 0
	20000 to 20350	20175	10MHz	QPSK, 16QAM	50 / 0
PEAK TO AVERAGE RATIO	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 / 24
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	1 / 0
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 / 0
BAND EDGE	19975 to 20375	19975	5MHz	QPSK	1 / 0, 25 / 0
	19975 to 20375	20375	5MHz	QPSK	1 / 24, 25 / 0
	20000 to 20350	20000	10MHz	QPSK	1 / 0, 50 / 0
	20000 to 20350	20350	10MHz	QPSK	1 /49, 50 / 0
CONDCUDETED EMISSION	19975 to 20375	20175	5MHz	QPSK	1 / 24
	20000 to 20350	20175	10MHz	QPSK	1 / 0
RADIATED EMISSION	19975 to 20375	20175	5MHz	QPSK	1 / 24, 25 / 0
	19975 to 20375	20175	5MHz	16QAM	1 / 0, 25 / 0
	20000 to 20350	20175	10MHz	QPSK	1 / 0, 50 / 0
	20000 to 20350	20175	10MHz	16QAM	1 / 0, 50 / 0

*Conducted emission is only performed for highest power configuration.
**Radiated emission is performed for full RB size and highest power configuration.

3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI C63.4-2003

ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.

4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.
Portable stations (hand-held devices) operating in the 704-716 MHz band are limited to 3 watts ERP

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE. Detector type =RMS.

b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G

d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn

e. E.R.P = E.I.R.P- 2.15 dB

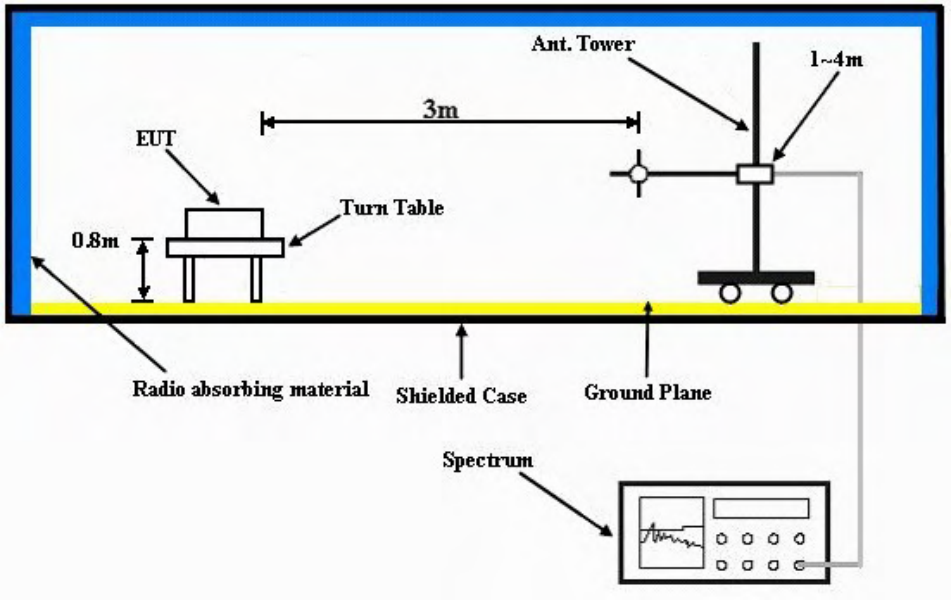
CONDUCTED POWER MEASUREMENT:

a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.

b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

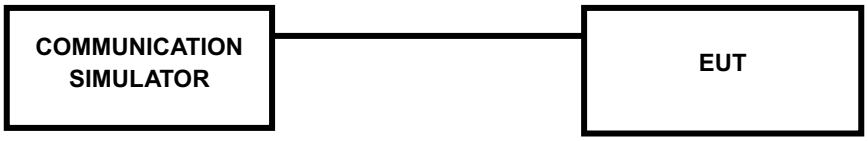
4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 17							
BW	Modulation	CH	Frequency (MHz)	RB	RB Offset	MPR	Measured Power
5 MHz	QPSK	23755	706.5	1	0	0	23.53
		23790	710	1	0	0	23.45
		23825	713.5	1	0	0	23.26
		23755	706.5	1	24	0	23.23
		23790	710	1	24	0	23.6
		23825	713.5	1	24	0	23.55
		23755	706.5	12	6	1	22
		23790	710	12	6	1	22.23
		23825	713.5	12	6	1	22.3
		23755	706.5	25	0	1	21.99
		23790	710	25	0	1	22.14
		23825	713.5	25	0	1	22.11
	16QAM	23755	706.5	1	0	1	22.55
		23790	710	1	0	1	22.28
		23825	713.5	1	0	1	22.31
		23755	706.5	1	24	1	22.45
		23790	710	1	24	1	22.47
		23825	713.5	1	24	1	22.59
		23755	706.5	12	6	2	21
		23790	710	12	6	2	21.29
		23825	713.5	12	6	2	21.26
		23755	706.5	25	0	2	20.97
		23790	710	25	0	2	21.07
		23825	713.5	25	0	2	21.1

LTE Band 17							
BW	Modulation	CH	Frequency (MHz)	RB	RB Offset	MPR	Measured Power
10MHz	QPSK	23780	709	1	0	0	23.38
		23790	710	1	0	0	23.05
		23800	711	1	0	0	23.01
		23780	709	1	49	0	23.61
		23790	710	1	49	0	23.5
		23800	711	1	49	0	23.34
		23780	709	25	12	1	21.88
		23790	710	25	12	1	21.92
		23800	711	25	12	1	22.05
		23780	709	50	0	1	21.56
		23790	710	50	0	1	21.86
		23800	711	50	0	1	21.88
	16QAM	23780	709	1	0	1	22.19
		23790	710	1	0	1	22.29
		23800	711	1	0	1	21.93
		23780	709	1	49	1	22.45
		23790	710	1	49	1	22.61
		23800	711	1	49	1	22.37
		23780	709	25	12	2	20.82
		23790	710	25	12	2	20.86
		23800	711	25	12	2	20.99
		23780	709	50	0	2	20.82
		23790	710	50	0	2	20.94
		23800	711	50	0	2	20.83

LTE Band 4							
BW	Modulation	CH	Frequency (MHz)	RB	RB Offset	MPR	Measured Power
5 MHz	QPSK	19975	1712.5	1	0	0	24.69
		20175	1732.5	1	0	0	24.63
		20375	1752.5	1	0	0	24.17
		19975	1712.5	1	24	0	24.52
		20175	1732.5	1	24	0	24.72
		20375	1752.5	1	24	0	24.18
		19975	1712.5	12	6	1	24.09
		20175	1732.5	12	6	1	23.98
		20375	1752.5	12	6	1	23.82
		19975	1712.5	25	0	1	23.85
		20175	1732.5	25	0	1	23.83
		20375	1752.5	25	0	1	23.65
	16QAM	19975	1712.5	1	0	1	24.18
		20175	1732.5	1	0	1	24.38
		20375	1752.5	1	0	1	23.65
		19975	1712.5	1	24	1	24.19
		20175	1732.5	1	24	1	24.27
		20375	1752.5	1	24	1	23.49
		19975	1712.5	12	6	2	23.17
		20175	1732.5	12	6	2	23.18
		20375	1752.5	12	6	2	22.86
		19975	1712.5	25	0	2	22.92
		20175	1732.5	25	0	2	23.05
		20375	1752.5	25	0	2	22.75

LTE Band 4							
BW	Modulation	CH	Frequency (MHz)	RB	RB Offset	MPR	Measured Power
10MHz	QPSK	20000	1715	1	0	0	24.83
		20175	1732.5	1	0	0	24.85
		20350	1750	1	0	0	24.22
		20000	1715	1	49	0	24.67
		20175	1732.5	1	49	0	24.53
		20350	1750	1	49	0	24.22
		20000	1715	25	12	1	23.99
		20175	1732.5	25	12	1	24
		20350	1750	25	12	1	23.45
		20000	1715	50	0	1	23.63
		20175	1732.5	50	0	1	23.67
		20350	1750	50	0	1	23.47
	16QAM	20000	1715	1	0	1	24.18
		20175	1732.5	1	0	1	24.22
		20350	1750	1	0	1	23.72
		20000	1715	1	49	1	24.12
		20175	1732.5	1	49	1	23.96
		20350	1750	1	49	1	23.72
		20000	1715	25	12	2	23.01
		20175	1732.5	25	12	2	23.17
		20350	1750	25	12	2	22.48
		20000	1715	50	0	2	22.69
		20175	1732.5	50	0	2	22.95
		20350	1750	50	0	2	22.48

ERP (dBm)

LTE BAND 17

CHANNEL BANDWIDTH: 5MHz / QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23755	706.5	-14.44	30.36	13.77	0.02	H
	23790	710.0	-14.02	30.17	14.00	0.03	
	23825	713.5	-14.09	30.17	13.93	0.02	
	23755	706.5	-6.78	32.03	23.10	0.20	V
	23790	710.0	-6.76	31.98	23.07	0.20	
	23825	713.5	-6.85	32.06	23.06	0.20	

CHANNEL BANDWIDTH: 5MHz / 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23755	706.5	-15.63	30.36	12.58	0.02	H
	23790	710.0	-15.29	30.17	12.73	0.02	
	23825	713.5	-15.34	30.17	12.68	0.02	
	23755	706.5	-7.89	32.03	21.99	0.16	V
	23790	710.0	-7.86	31.98	21.97	0.16	
	23825	713.5	-7.98	32.06	21.93	0.16	

CHANNEL BANDWIDTH: 10MHz / QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23780	709.0	-13.47	30.17	14.55	0.03	H
	23790	710.0	-13.28	30.17	14.74	0.03	
	23800	711.0	-13.31	30.18	14.72	0.03	
	23780	709.0	-7.03	31.96	22.78	0.19	V
	23790	710.0	-7.14	31.98	22.69	0.19	
	23800	711.0	-7.15	32.03	22.73	0.19	

CHANNEL BANDWIDTH: 10MHz / 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23780	709.0	-13.64	30.17	14.38	0.03	H
	23790	710.0	-13.31	30.17	14.71	0.03	
	23800	711.0	-13.28	30.18	14.75	0.03	
	23780	709.0	-8.03	31.96	21.78	0.15	V
	23790	710.0	-8.09	31.98	21.74	0.15	
	23800	711.0	-8.12	32.03	21.76	0.15	

EIRP (dBm)

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz / QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(W)	Polarization (H/V)
X	19975	1712.5	-18.57	37.90	19.33	0.09	H
	20175	1732.5	-18.67	37.99	19.32	0.09	
	20375	1752.5	-19.23	38.31	19.08	0.08	
	19975	1712.5	-11.79	37.81	26.02	0.40	V
	20175	1732.5	-11.34	37.40	26.06	0.40	
	20375	1752.5	-12.22	38.22	26.00	0.40	

CHANNEL BANDWIDTH: 5MHz / 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(W)	Polarization (H/V)
X	19975	1712.5	-18.32	37.90	19.58	0.09	H
	20175	1732.5	-18.12	37.99	19.87	0.10	
	20375	1752.5	-19.03	38.31	19.28	0.08	
	19975	1712.5	-11.99	37.81	25.82	0.38	V
	20175	1732.5	-11.86	37.40	25.54	0.36	
	20375	1752.5	-12.68	38.22	25.54	0.36	

CHANNEL BANDWIDTH: 10MHz / QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(W)	Polarization (H/V)
X	20000	1715.0	-18.54	37.99	19.45	0.09	H
	20175	1732.5	-18.50	37.99	19.49	0.09	
	20350	1750.0	-19.11	38.36	19.25	0.08	
	20000	1715.0	-11.87	37.91	26.04	0.40	V
	20175	1732.5	-11.67	38.00	26.33	0.43	
	20350	1750.0	-12.18	38.28	26.10	0.41	

CHANNEL BANDWIDTH: 10MHz / 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(W)	Polarization (H/V)
X	20000	1715.0	-18.18	37.99	19.81	0.10	H
	20175	1732.5	-18.91	37.99	19.08	0.08	
	20350	1750.0	-18.52	38.36	19.84	0.10	
	20000	1715.0	-12.30	37.91	25.61	0.36	V
	20175	1732.5	-12.44	38.00	25.56	0.36	
	20350	1750.0	-12.98	38.28	25.30	0.34	

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

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

4.2.2 TEST PROCEDURE

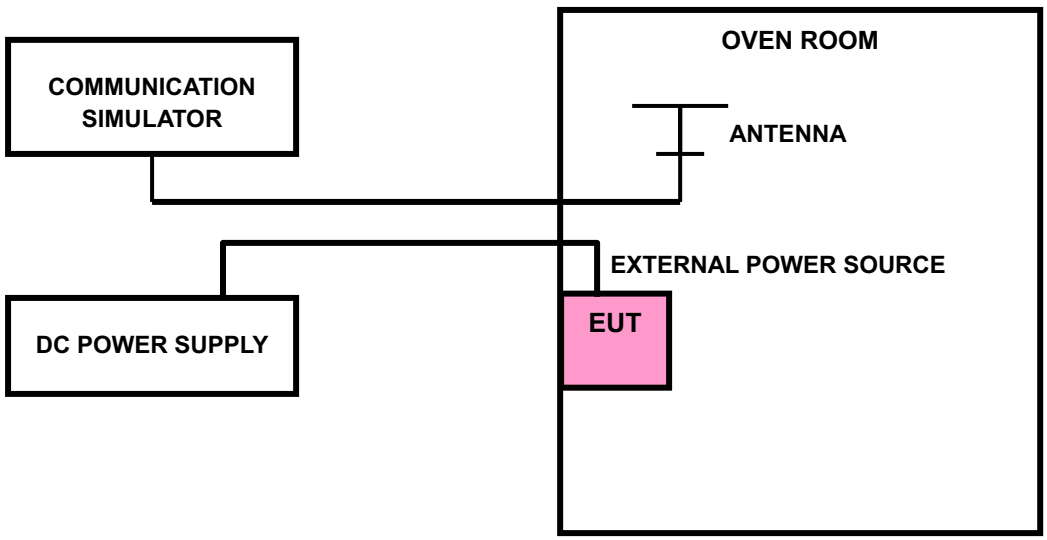
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



4.2.4 TEST RESULTS

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)				LIMIT (ppm)
	LTE BAND 17		LTE BAND 4		
	5MHz	10MHz	5MHz	10MHz	
4.2	-0.0054	-0.0031	0.0033	0.0070	2.5
3.4	-0.0040	-0.0035	0.0066	0.0043	2.5
4.2	-0.0054	-0.0031	0.0033	0.0070	2.5

NOTE: The applicant defined the normal working voltage of the host equipment is from 3.4Vdc to 4.2Vdc.

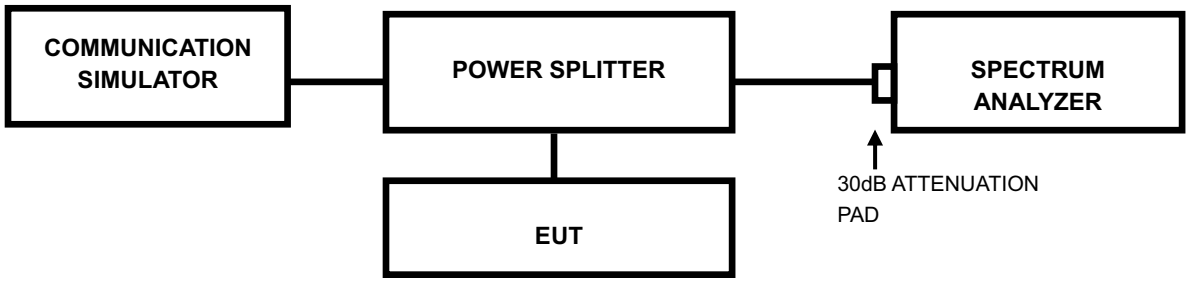
TEMP. (℃)	FREQUENCY ERROR (ppm)				LIMIT (ppm)
	LTE BAND 17		LTE BAND 4		
	5MHz	10MHz	5MHz	10MHz	
-30	-0.0031	-0.0029	-0.0039	0.0061	2.5
-20	-0.0055	-0.0040	-0.0047	0.0057	2.5
-10	-0.0035	-0.0038	-0.0022	0.0027	2.5
0	0.0039	-0.0037	0.0050	0.0065	2.5
10	-0.0030	-0.0021	0.0047	-0.0049	2.5
20	-0.0034	-0.0025	-0.0015	0.0029	2.5
30	-0.0026	-0.0040	-0.0049	0.0033	2.5
40	-0.0056	-0.0047	0.0032	0.0063	2.5
50	-0.0033	-0.0031	0.0064	0.0045	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.2 TEST SETUP



4.3.3 TEST PROCEDURES

a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

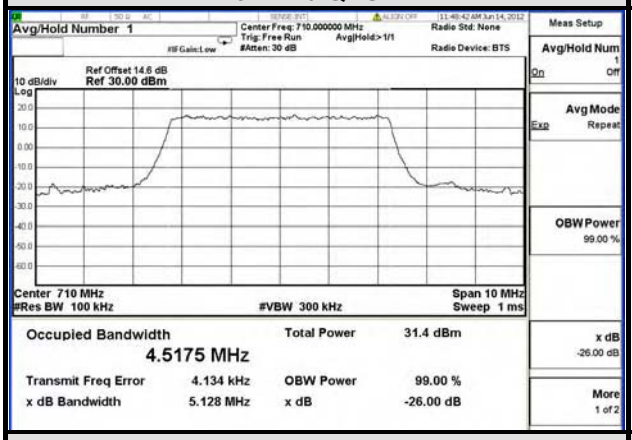
4.3.4 TEST RESULTS

LTE BAND 17

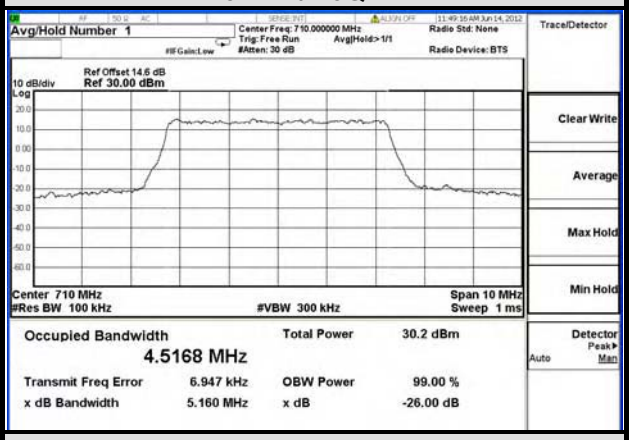
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
23790	710.0	4.5175	4.5168	23790	710.0	9.0392	9.0426

SPECTRUM PLOT OF WORST VALUE

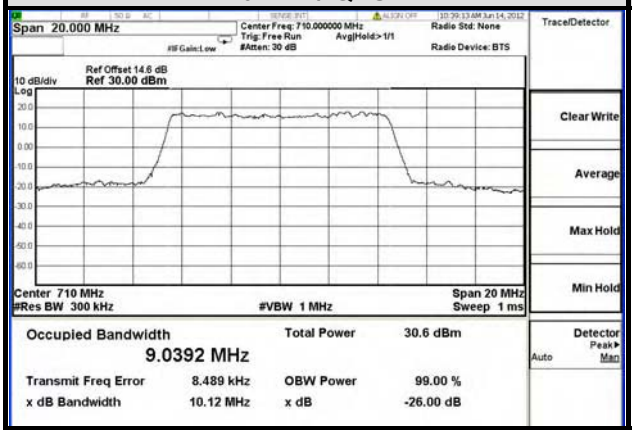
5MHz / QPSK



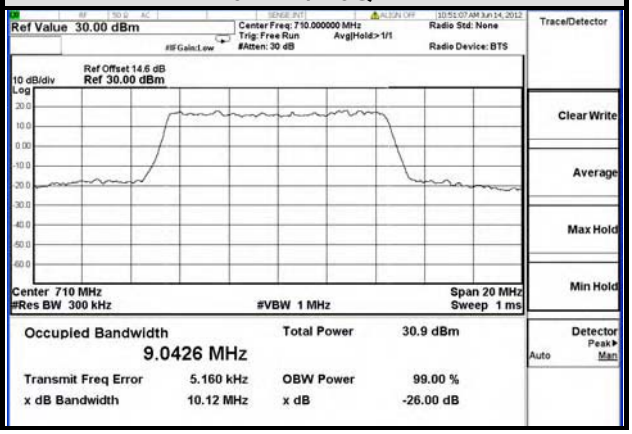
5MHz / 16QAM



10MHz / QPSK



10MHz / 16QAM

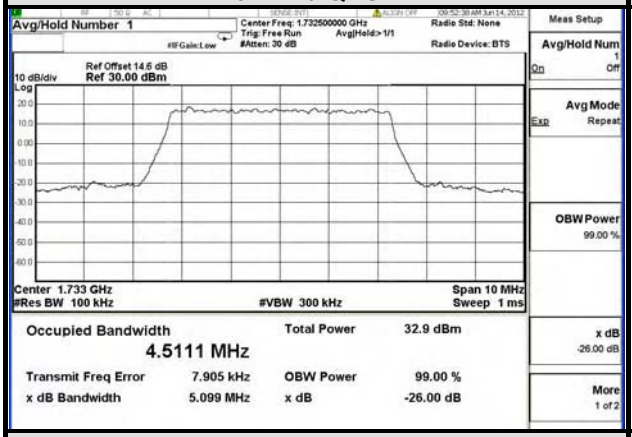


LTE BAND 4

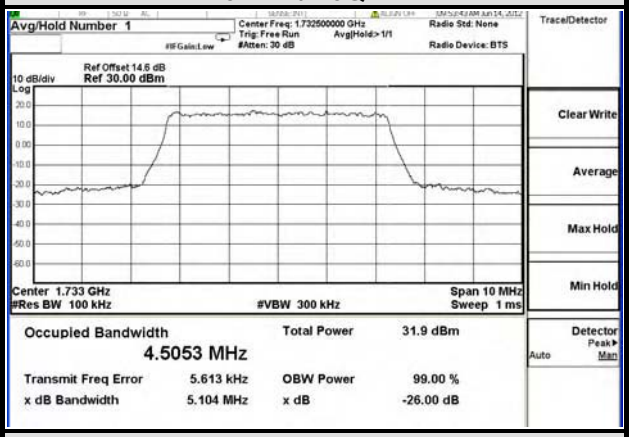
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	4.5111	4.5053	20175	1732.5	9.1054	9.0207

SPECTRUM PLOT OF WORST VALUE

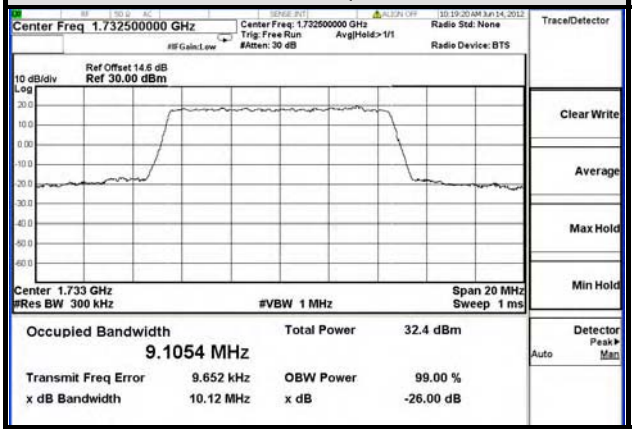
5MHz / QPSK



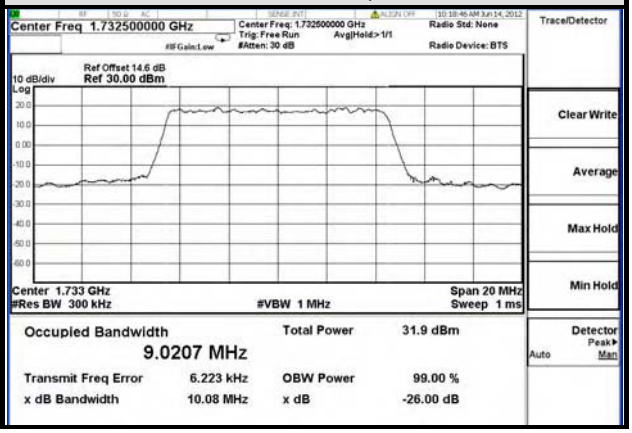
5MHz / 16QAM



10MHz / QPSK



10MHz / 16QAM

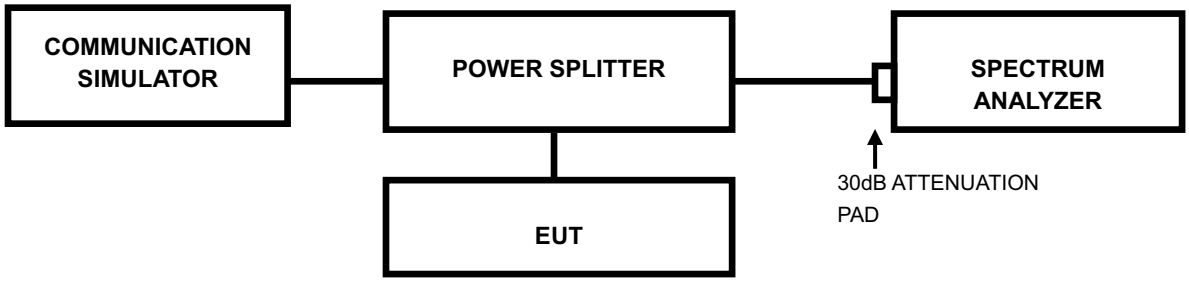


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

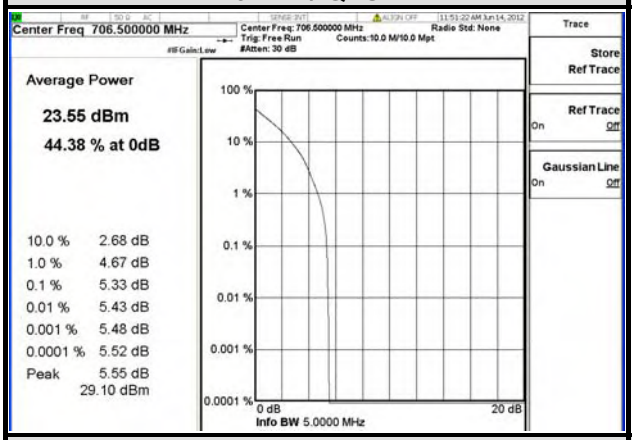
4.4.4 TEST RESULTS

LTE BAND 17

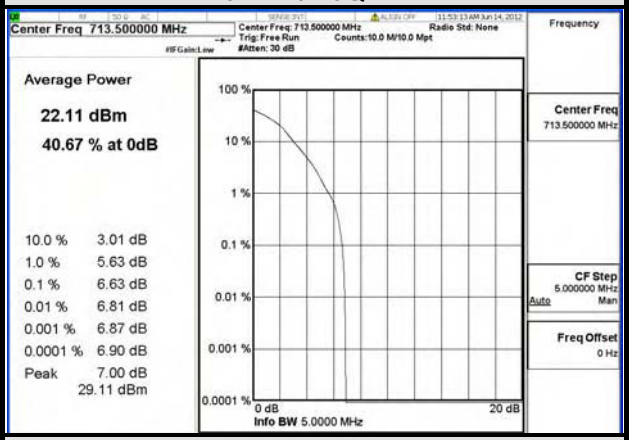
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
23755	706.5	5.33	6.51	23780	709.0	5.40	6.77
23790	710.0	5.19	6.34	23790	710.0	5.48	6.67
23825	713.5	5.25	6.63	23800	711.0	5.40	6.64

SPECTRUM PLOT OF WORST VALUE

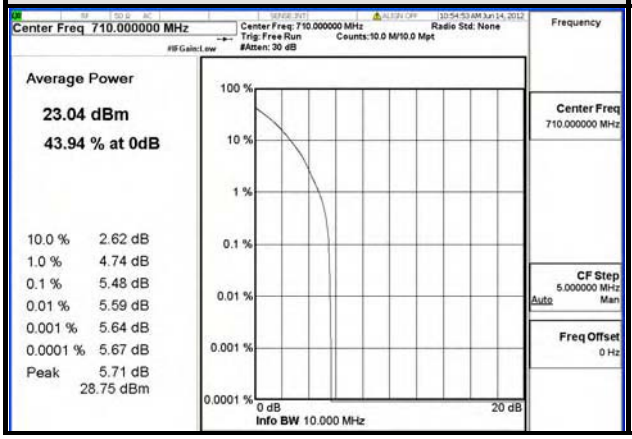
5MHz / QPSK



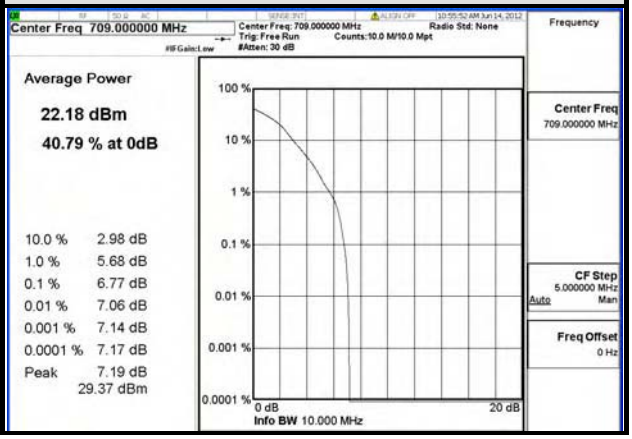
5MHz / 16QAM



10MHz / QPSK



10MHz / 16QAM

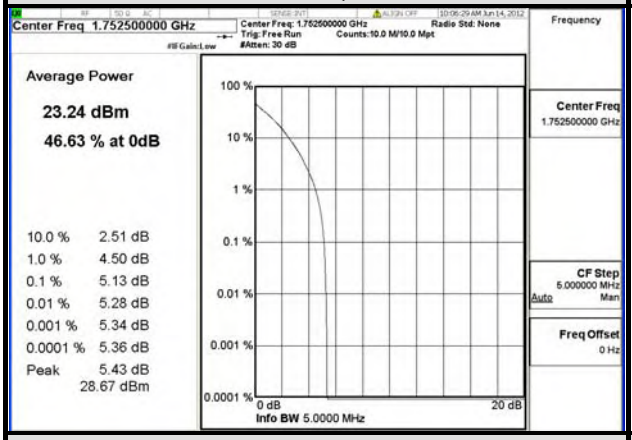


LTE BAND 4

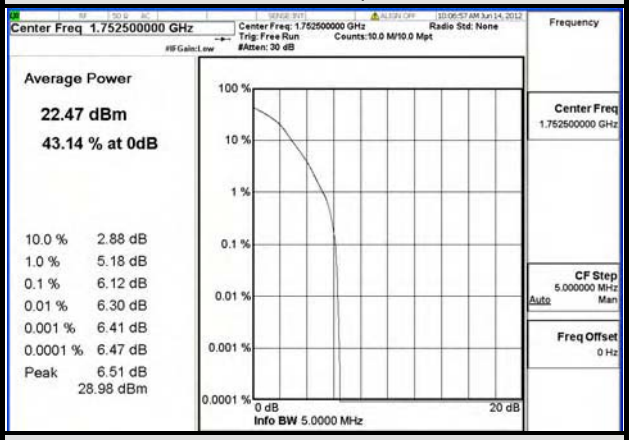
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	5.00	6.02	20000	1715.0	4.93	5.83
20175	1732.5	4.92	6.03	20175	1732.5	4.95	5.84
20375	1752.5	5.13	6.12	20350	1750.0	5.09	6.00

SPECTRUM PLOT OF WORST VALUE

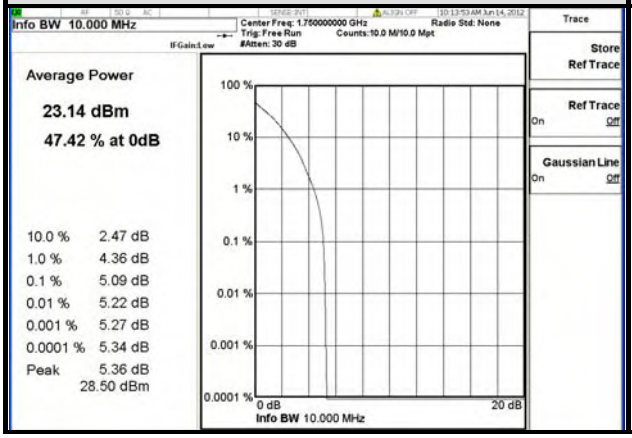
5MHz / QPSK



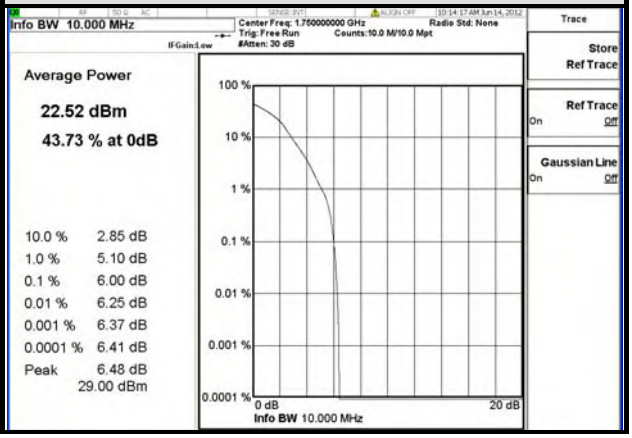
5MHz / 16QAM



10MHz / QPSK



10MHz / 16QAM

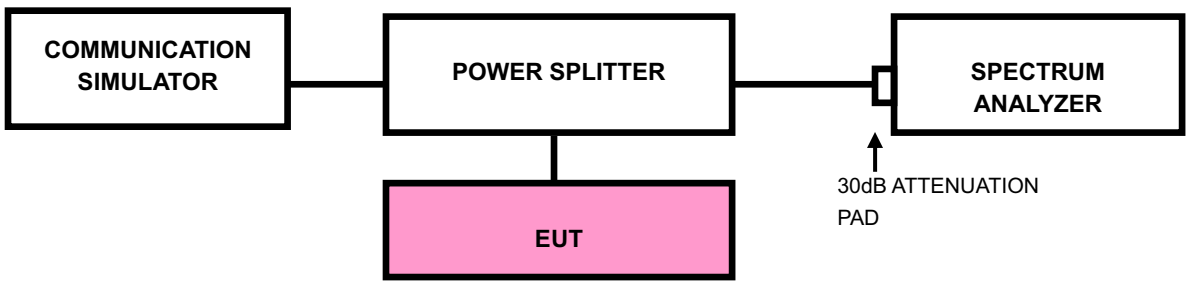


4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.

4.5.2 TEST SETUP



4.5.3 TEST PROCEDURES

a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).

b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

c. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz.

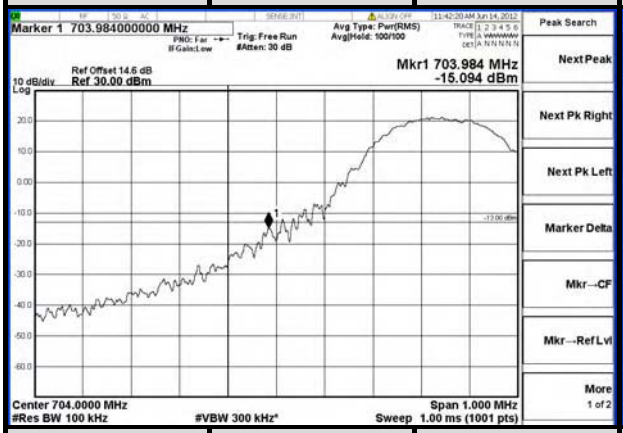
d. Record the max trace plot into the test report.

4.5.4 TEST RESULTS

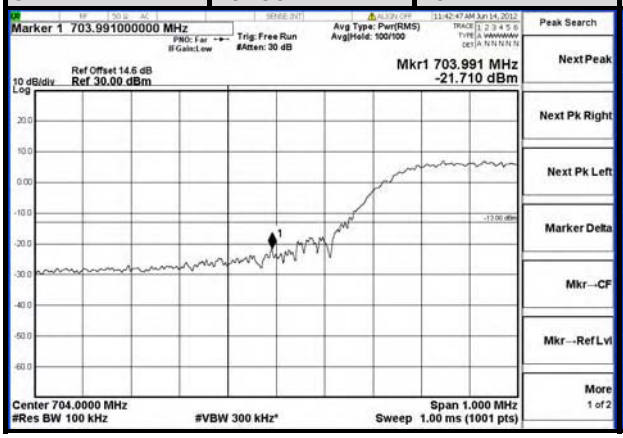
LTE BAND 17

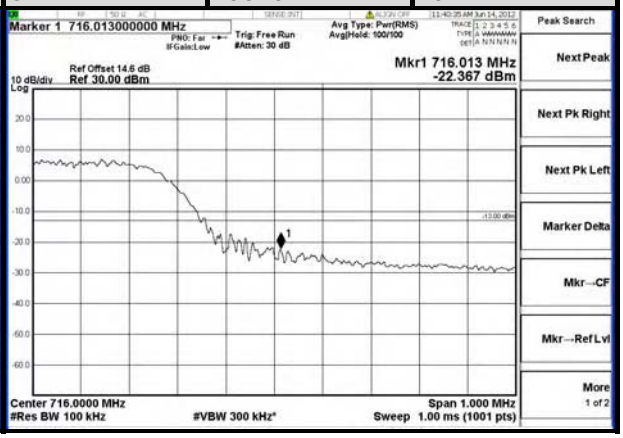
Channel Bandwidth: 5MHz

CHANNEL	23755	1 RB	CHANNEL	23825	1 RB



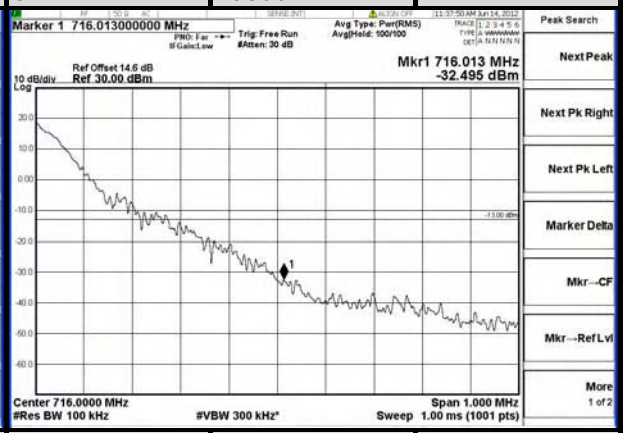
CHANNEL	23755	25 RB	CHANNEL	23825	25 RB



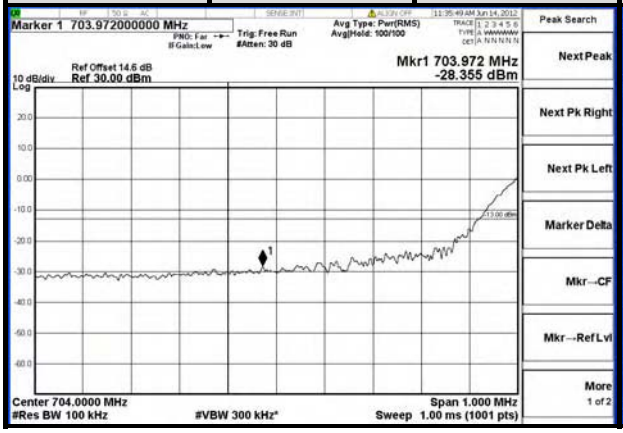


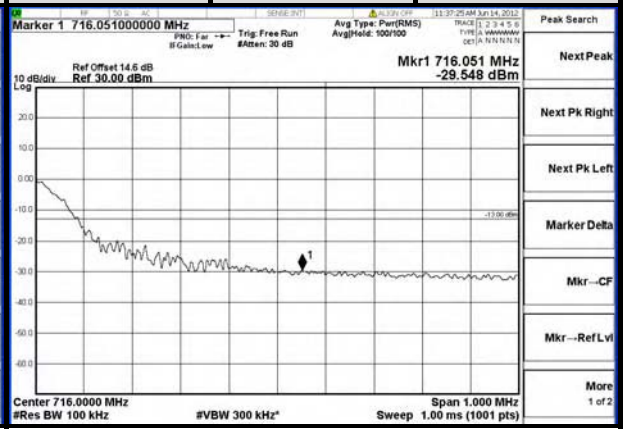
Channel Bandwidth: 10MHz

CHANNEL	23780	1 RB	CHANNEL	23800	1 RB



CHANNEL	23780	50 RB	CHANNEL	23800	50 RB

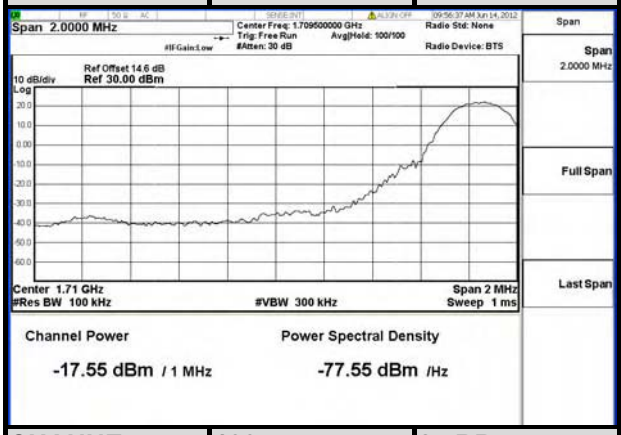


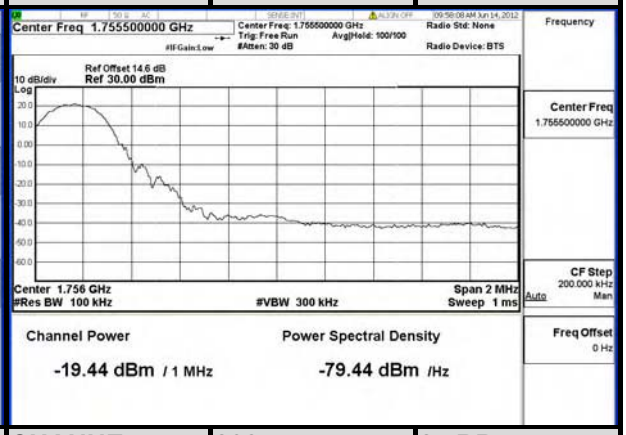


LTE BAND 4

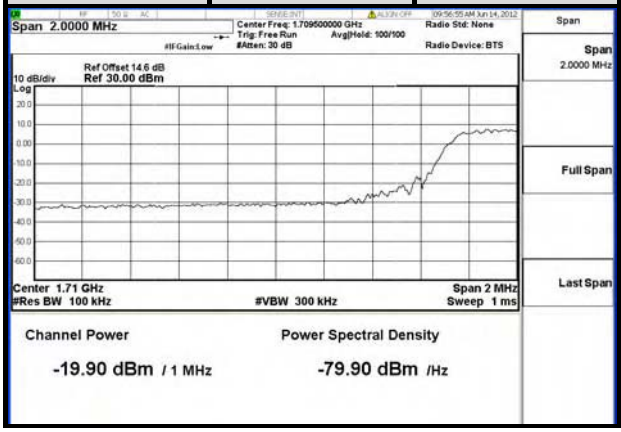
Channel Bandwidth: 5MHz

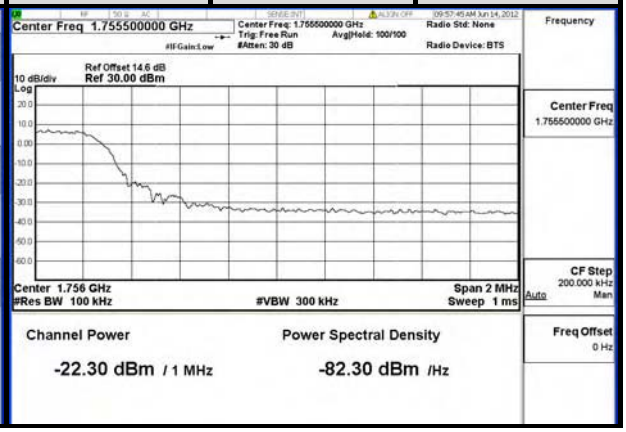
CHANNEL	19975	1 RB	CHANNEL	20375	1 RB





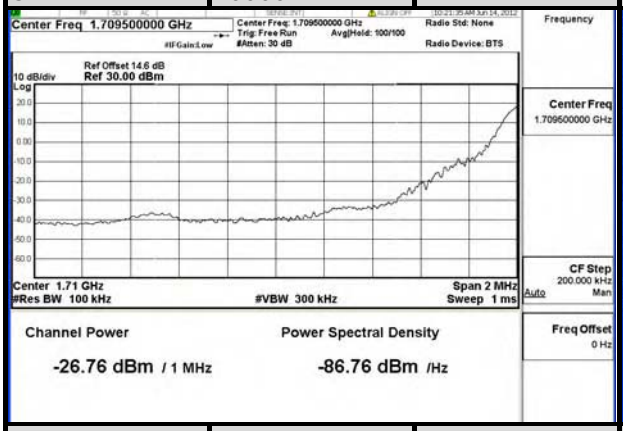
CHANNEL	19975	25 RB	CHANNEL	20375	25 RB



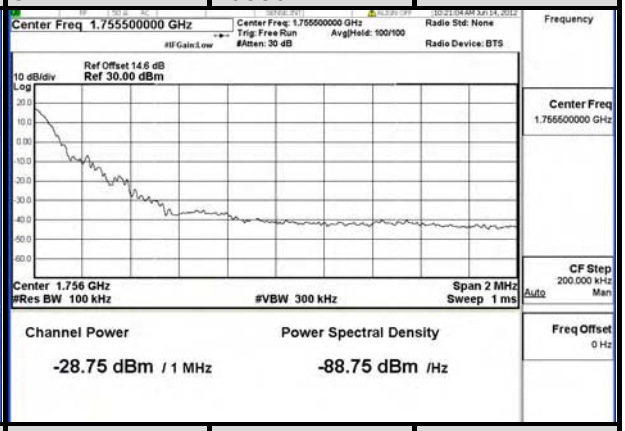


Channel Bandwidth: 10MHz

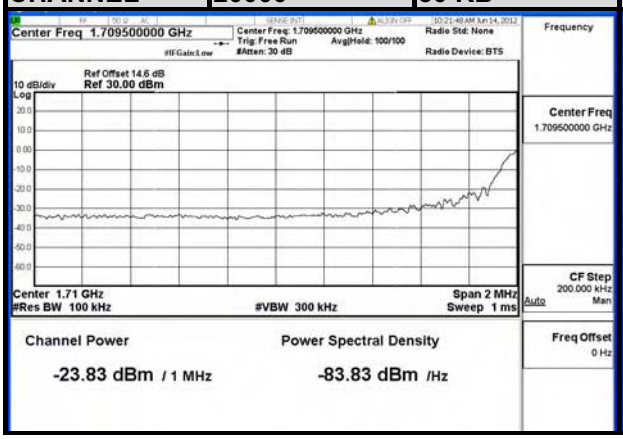
CHANNEL	20000	1 RB



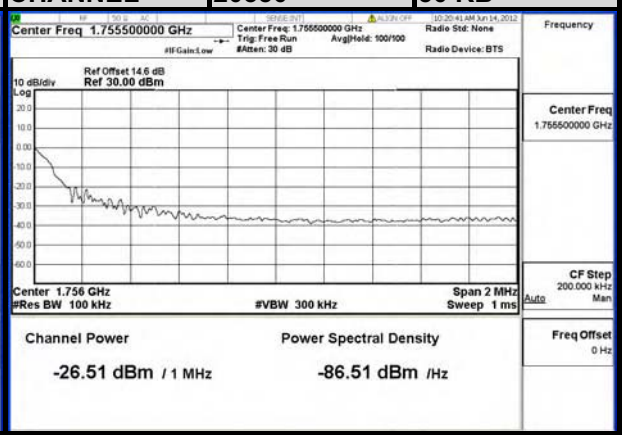
CHANNEL	20350	1 RB



CHANNEL	20000	50 RB



CHANNEL	20350	50 RB



4.6 CONDUCTED SPURIOUS EMISSIONS

4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

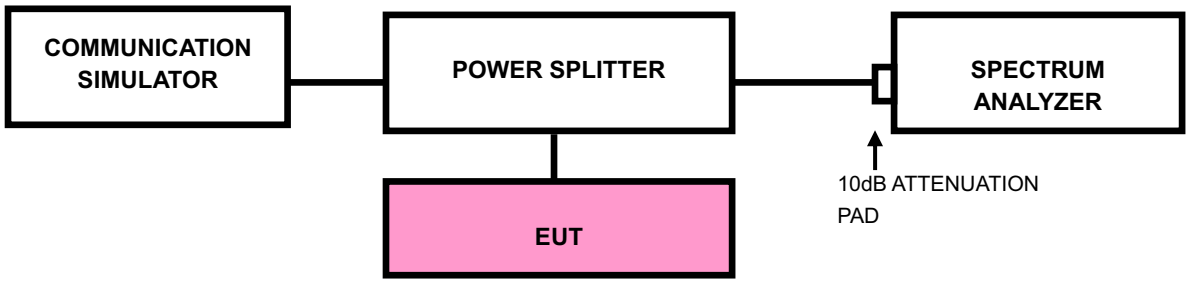
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

4.6.2 TEST PROCEDURE

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 30 MHz to 18GHz. 10dB attenuation pad is connected with spectrum. RBW=100kHz and VBW=300kHz is used for conducted emission measurement.

4.6.3 TEST SETUP

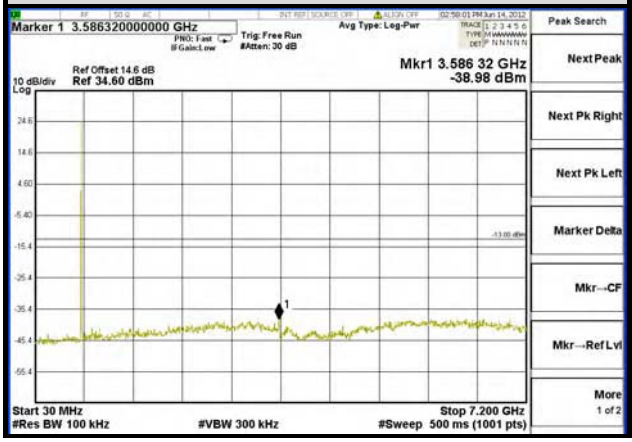
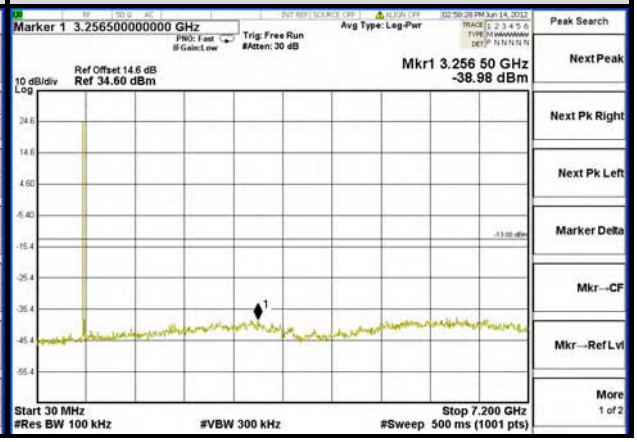


4.6.4 TEST RESULTS

LTE BAND 17

5MHz	10MHz
CHANNEL 23755	CHANNEL 23780
FREQUENCY RANGE : 30MHz~18GHz	FREQUENCY RANGE : 1GHz~8GHz
	

LTE BAND 4

5MHz	10MHz
CHANNEL 19975	CHANNEL 20000
FREQUENCY RANGE : 30MHz~18GHz	FREQUENCY RANGE : 30MHz~18GHz
	

4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

4.7.2 TEST PROCEDURES

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.

b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G

c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

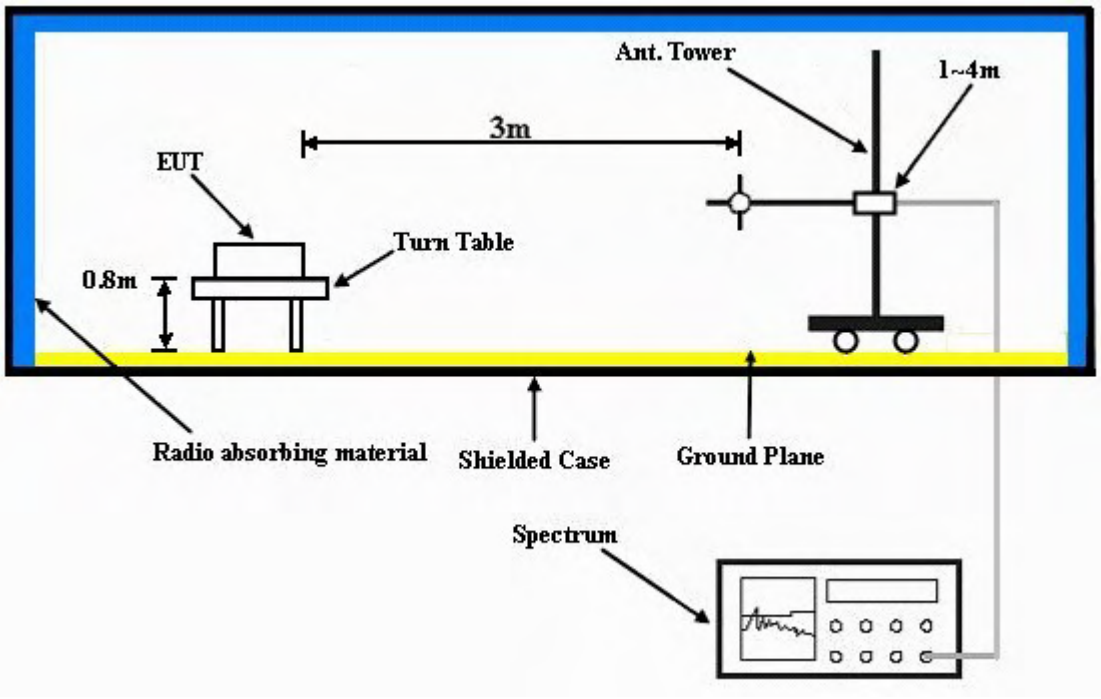
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



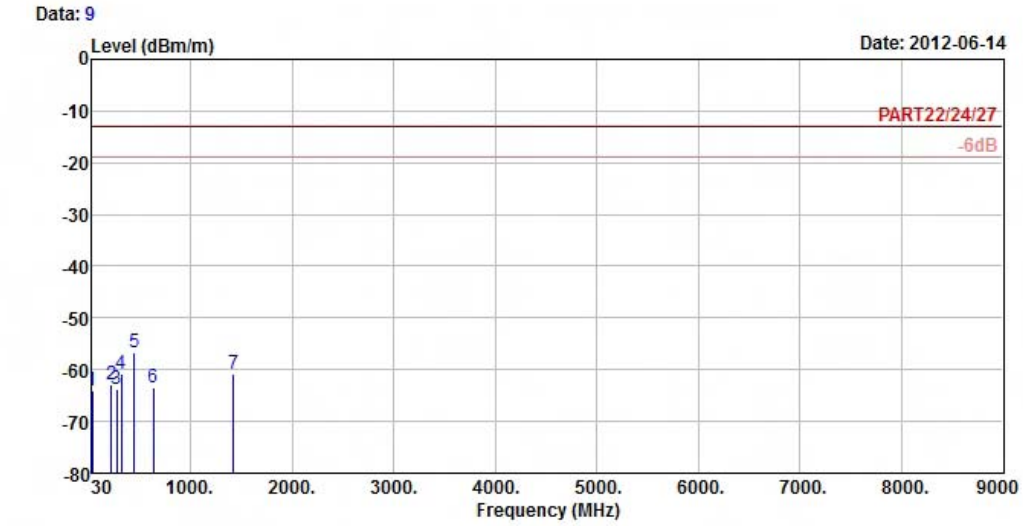
For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 TEST RESULTS

LTE BAND 17

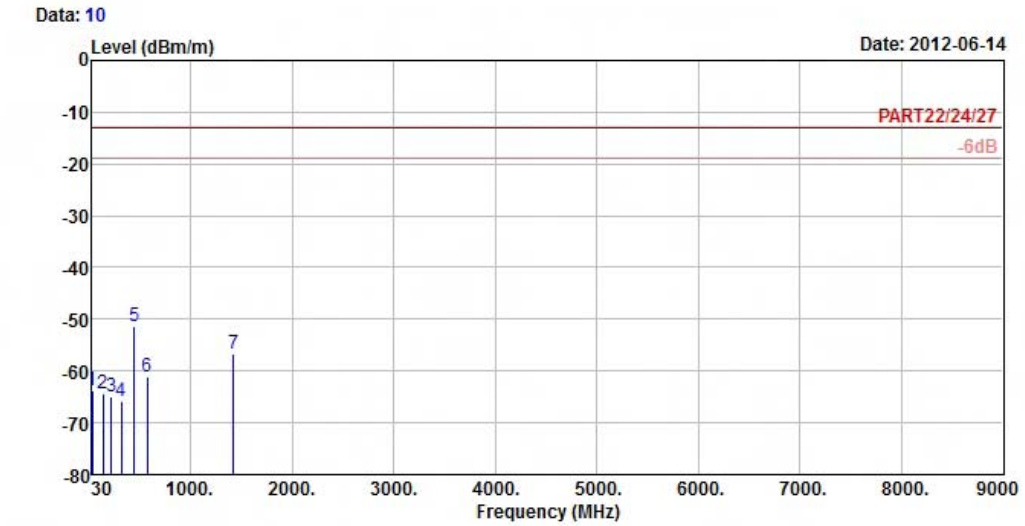
CHANNEL BANDWIDTH: 5MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



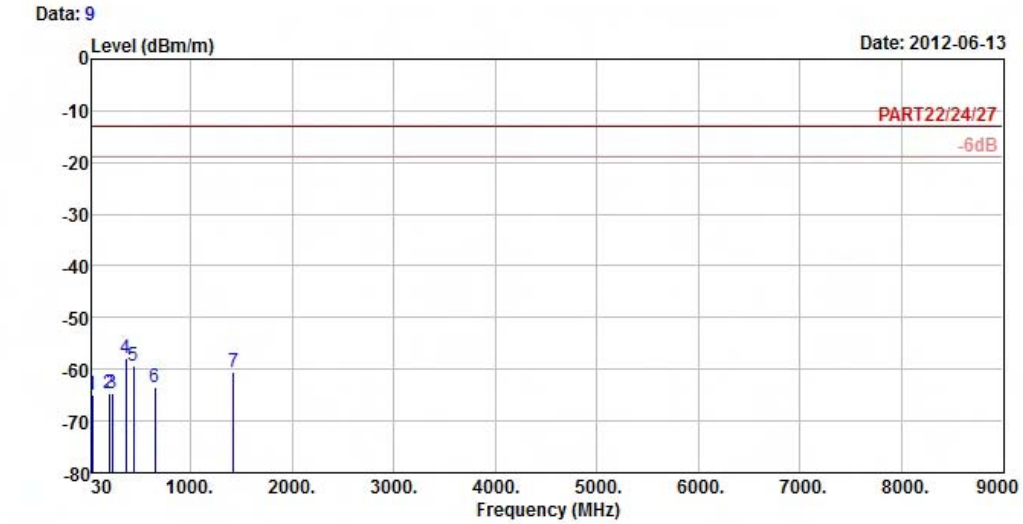
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK1.24)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-64.09	-65.16	-13.00	-51.09	1.07	Peak
2	221.70	-62.79	-55.84	-13.00	-49.79	-6.95	Peak
3	273.54	-63.80	-57.79	-13.00	-50.80	-6.01	Peak
4	317.50	-60.76	-54.51	-13.00	-47.76	-6.25	Peak
5 pp	443.50	-56.81	-52.27	-13.00	-43.81	-4.54	Peak
6	634.60	-63.51	-63.77	-13.00	-50.51	0.26	Peak
7	1424.00	-60.95	-48.43	-13.00	-47.95	-12.52	Peak



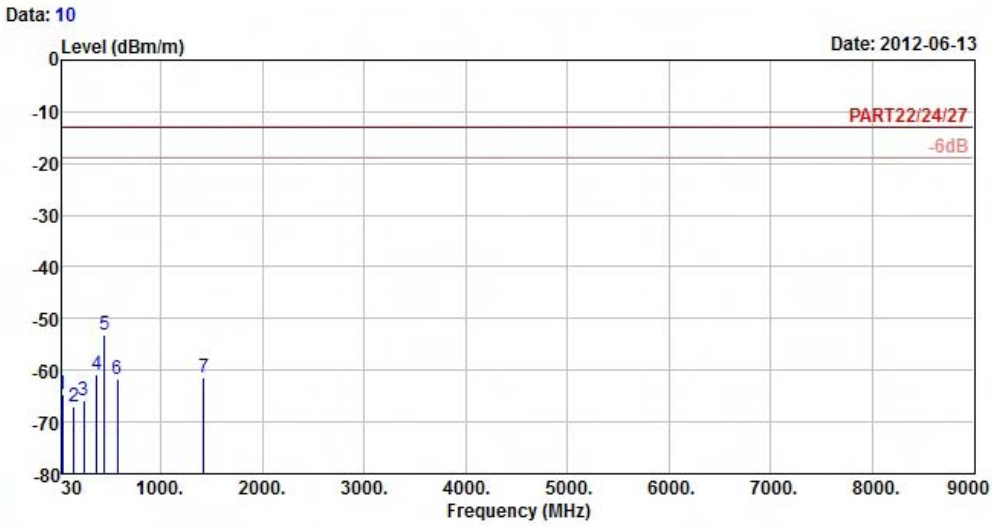
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK1.24)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-63.91	-64.98	-13.00	-50.91	1.07	Peak
2	134.49	-64.50	-57.54	-13.00	-51.50	-6.96	Peak
3	216.84	-64.84	-57.68	-13.00	-51.84	-7.16	Peak
4	318.20	-65.94	-59.70	-13.00	-52.94	-6.24	Peak
5 pp	447.70	-51.27	-46.86	-13.00	-38.27	-4.41	Peak
6	573.70	-60.97	-59.90	-13.00	-47.97	-1.07	Peak
7	1424.00	-56.57	-44.05	-13.00	-43.57	-12.52	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-64.91	-65.98	-13.00	-51.91	1.07	Peak
2	196.05	-64.56	-57.07	-13.00	-51.56	-7.49	Peak
3	230.07	-64.72	-58.12	-13.00	-51.72	-6.60	Peak
4 pp	365.10	-57.88	-51.98	-13.00	-44.88	-5.90	Peak
5	437.20	-59.28	-54.60	-13.00	-46.28	-4.68	Peak
6	646.50	-63.60	-64.09	-13.00	-50.60	0.49	Peak
7	1420.00	-60.40	-47.89	-13.00	-47.40	-12.51	Peak

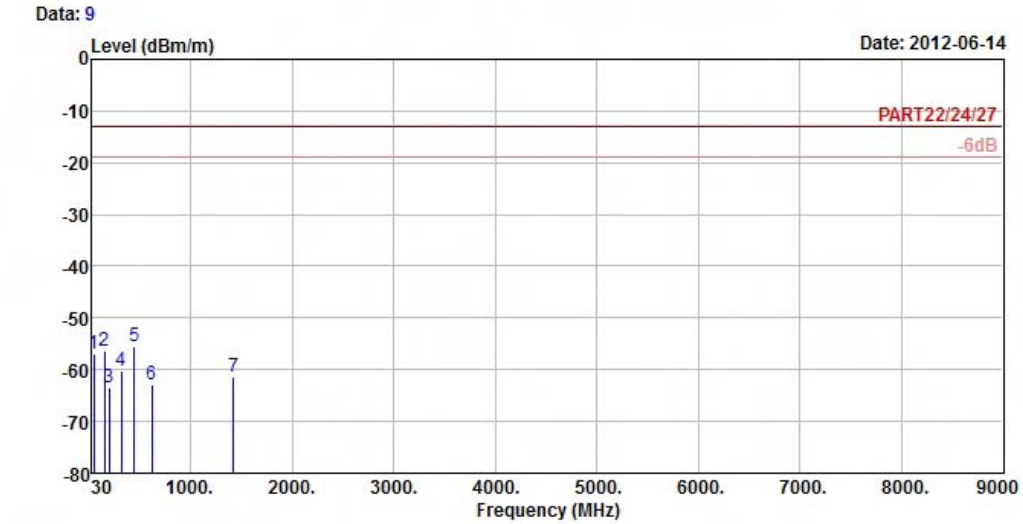


Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	31.89	-64.55	-64.16	-13.00	-51.55	-0.39	Peak
2	147.18	-67.13	-60.96	-13.00	-54.13	-6.17	Peak
3	246.00	-65.85	-60.00	-13.00	-52.85	-5.85	Peak
4	367.90	-60.81	-54.93	-13.00	-47.81	-5.88	Peak
5 pp	447.70	-53.19	-48.78	-13.00	-40.19	-4.41	Peak
6	575.80	-61.57	-60.55	-13.00	-48.57	-1.02	Peak
7	1420.00	-61.48	-48.97	-13.00	-48.48	-12.51	Peak

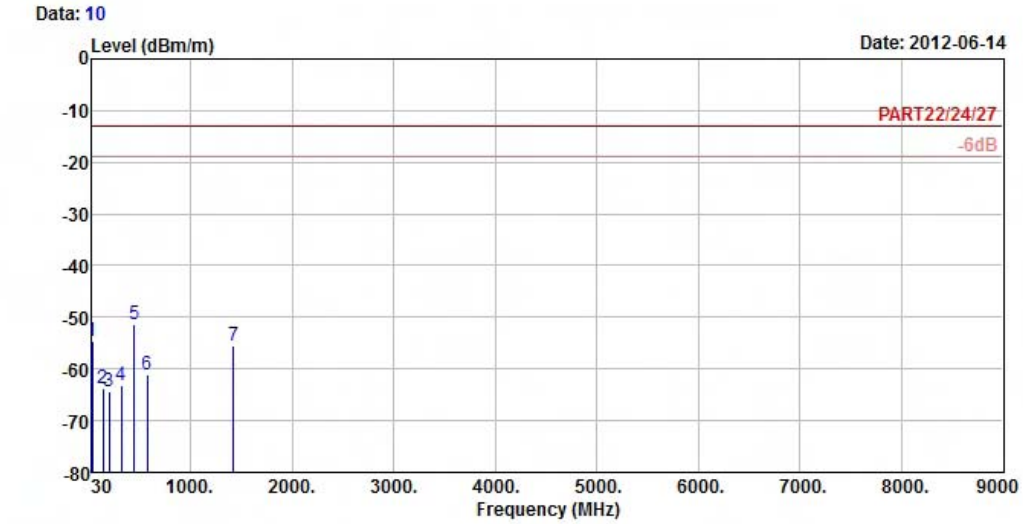
CHANNEL BANDWIDTH: 5MHz / 16QAM

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



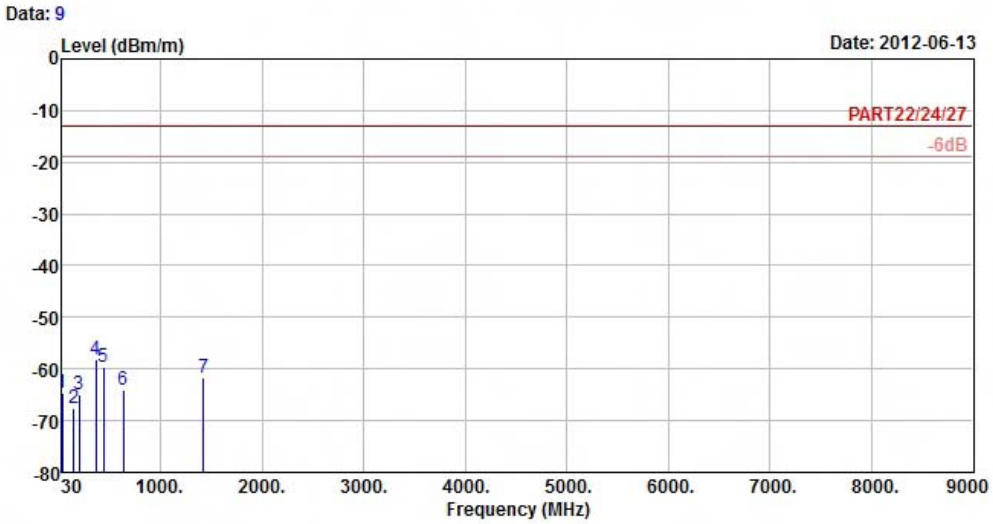
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM1.24)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	49.17	-56.88	-52.85	-13.00	-43.88	-4.03	Peak
2	151.23	-56.30	-49.92	-13.00	-43.30	-6.38	Peak
3	196.86	-63.61	-56.00	-13.00	-50.61	-7.61	Peak
4	317.50	-60.26	-54.01	-13.00	-47.26	-6.25	Peak
5 pp	448.40	-55.56	-51.15	-13.00	-42.56	-4.41	Peak
6	621.30	-62.99	-63.02	-13.00	-49.99	0.03	Peak
7	1424.00	-61.27	-48.75	-13.00	-48.27	-12.52	Peak



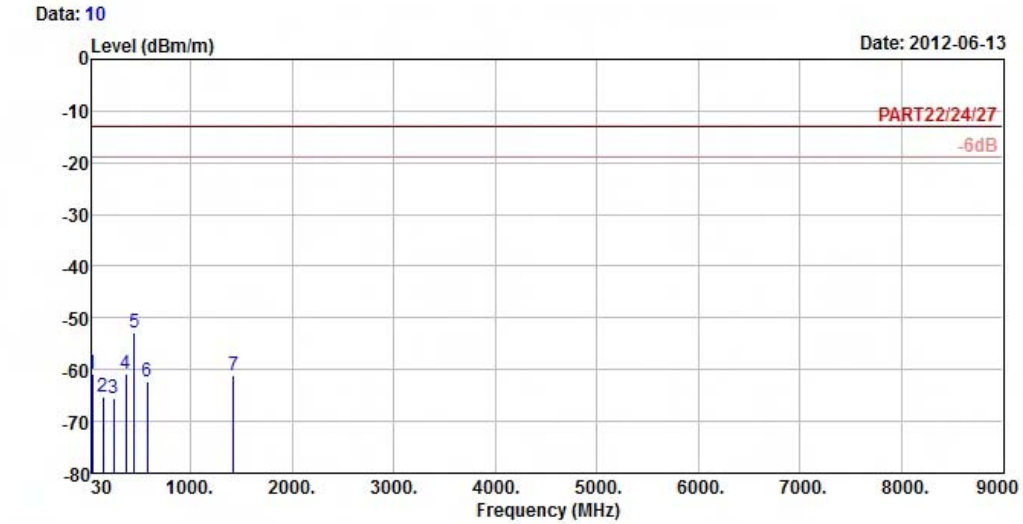
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM1.24)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	32.70	-54.47	-53.36	-13.00	-41.47	-1.11	Peak
2	134.22	-63.73	-56.51	-13.00	-50.73	-7.22	Peak
3	197.13	-64.45	-56.84	-13.00	-51.45	-7.61	Peak
4	318.20	-63.19	-56.95	-13.00	-50.19	-6.24	Peak
5 pp	446.30	-51.35	-46.89	-13.00	-38.35	-4.46	Peak
6	574.40	-61.14	-60.07	-13.00	-48.14	-1.07	Peak
7	1424.00	-55.47	-42.95	-13.00	-42.47	-12.52	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-64.64	-65.71	-13.00	-51.64	1.07	Peak
2	147.45	-67.47	-61.30	-13.00	-54.47	-6.17	Peak
3	196.32	-64.99	-57.50	-13.00	-51.99	-7.49	Peak
4 pp	365.10	-58.25	-52.35	-13.00	-45.25	-5.90	Peak
5	437.90	-59.66	-55.00	-13.00	-46.66	-4.66	Peak
6	633.20	-63.91	-64.15	-13.00	-50.91	0.24	Peak
7	1420.00	-61.77	-49.26	-13.00	-48.77	-12.51	Peak

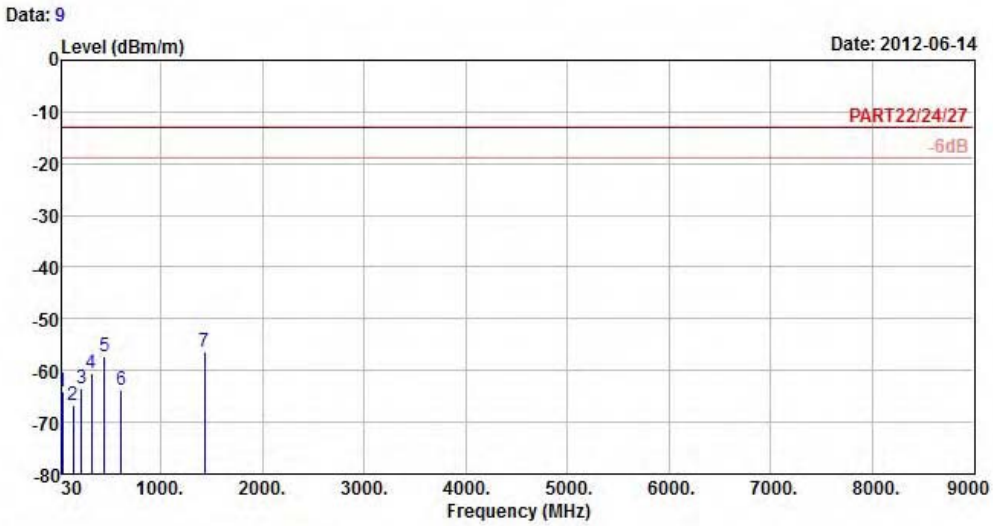


Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	33.78	-60.68	-58.84	-13.00	-47.68	-1.84	Peak
2	139.35	-65.11	-59.44	-13.00	-52.11	-5.67	Peak
3	246.27	-65.39	-59.54	-13.00	-52.39	-5.85	Peak
4	364.40	-60.74	-54.84	-13.00	-47.74	-5.90	Peak
5 pp	447.70	-52.95	-48.54	-13.00	-39.95	-4.41	Peak
6	576.50	-62.24	-61.22	-13.00	-49.24	-1.02	Peak
7	1420.00	-61.04	-48.53	-13.00	-48.04	-12.51	Peak

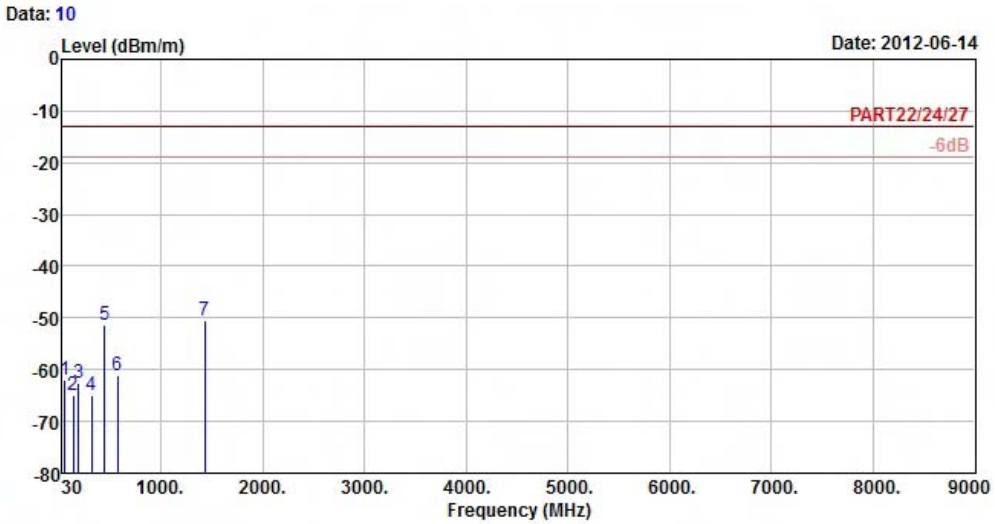
CHANNEL BANDWIDTH: 10MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



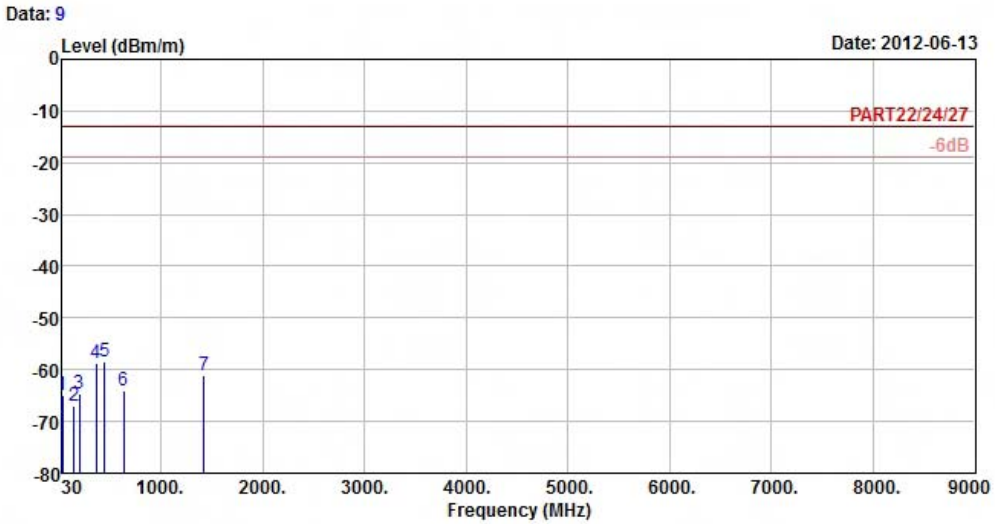
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK1.49)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-63.94	-65.01	-13.00	-50.94	1.07	Peak
2	135.57	-66.71	-60.01	-13.00	-53.71	-6.70	Peak
3	219.00	-63.54	-56.46	-13.00	-50.54	-7.08	Peak
4	316.10	-60.64	-54.38	-13.00	-47.64	-6.26	Peak
5	447.70	-57.35	-52.94	-13.00	-44.35	-4.41	Peak
6	614.30	-63.74	-63.63	-13.00	-50.74	-0.11	Peak
7 pp	1429.00	-56.27	-43.75	-13.00	-43.27	-12.52	Peak



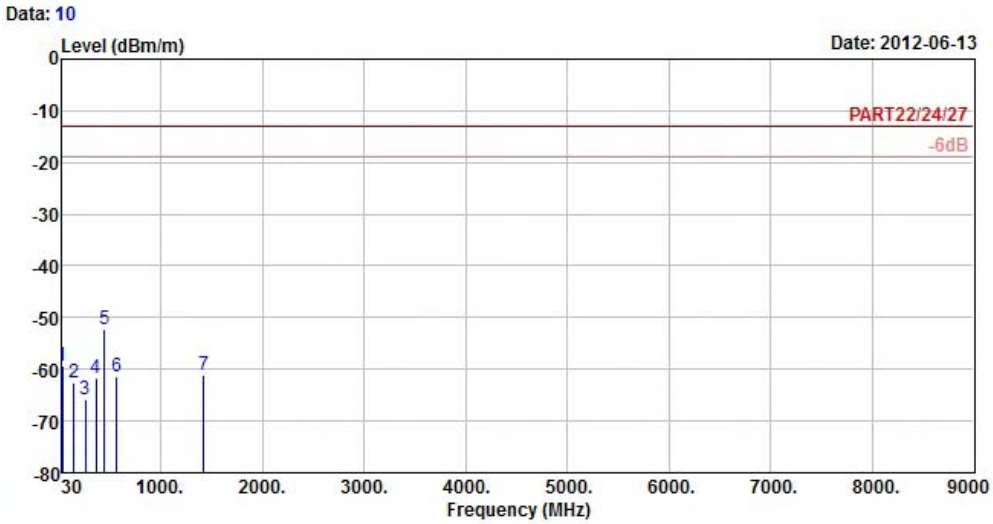
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK1.49)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	54.03	-62.14	-56.94	-13.00	-49.14	-5.20	Peak
2	134.49	-64.85	-57.89	-13.00	-51.85	-6.96	Peak
3	186.60	-62.70	-56.35	-13.00	-49.70	-6.35	Peak
4	318.90	-64.85	-58.61	-13.00	-51.85	-6.24	Peak
5	447.70	-51.45	-47.04	-13.00	-38.45	-4.41	Peak
6	575.80	-61.15	-60.13	-13.00	-48.15	-1.02	Peak
7 pp	1429.00	-50.60	-38.08	-13.00	-37.60	-12.52	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-65.07	-66.14	-13.00	-52.07	1.07	Peak
2	147.18	-67.15	-60.98	-13.00	-54.15	-6.17	Peak
3	196.86	-64.77	-57.16	-13.00	-51.77	-7.61	Peak
4	365.10	-58.73	-52.83	-13.00	-45.73	-5.90	Peak
5 pp	443.50	-58.43	-53.89	-13.00	-45.43	-4.54	Peak
6	634.60	-64.19	-64.45	-13.00	-51.19	0.26	Peak
7	1420.00	-61.17	-48.66	-13.00	-48.17	-12.51	Peak

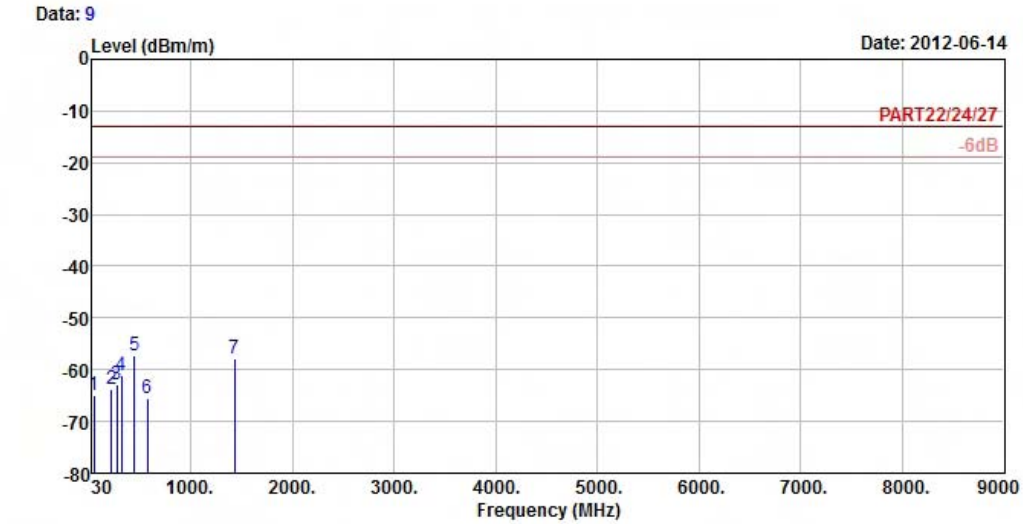


Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(QPSK50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	34.32	-59.35	-57.51	-13.00	-46.35	-1.84	Peak
2	142.05	-62.72	-56.86	-13.00	-49.72	-5.86	Peak
3	260.85	-65.88	-60.05	-13.00	-52.88	-5.83	Peak
4	366.50	-61.62	-55.74	-13.00	-48.62	-5.88	Peak
5 pp	443.50	-52.39	-47.85	-13.00	-39.39	-4.54	Peak
6	569.50	-61.45	-60.25	-13.00	-48.45	-1.20	Peak
7	1420.00	-61.08	-48.57	-13.00	-48.08	-12.51	Peak

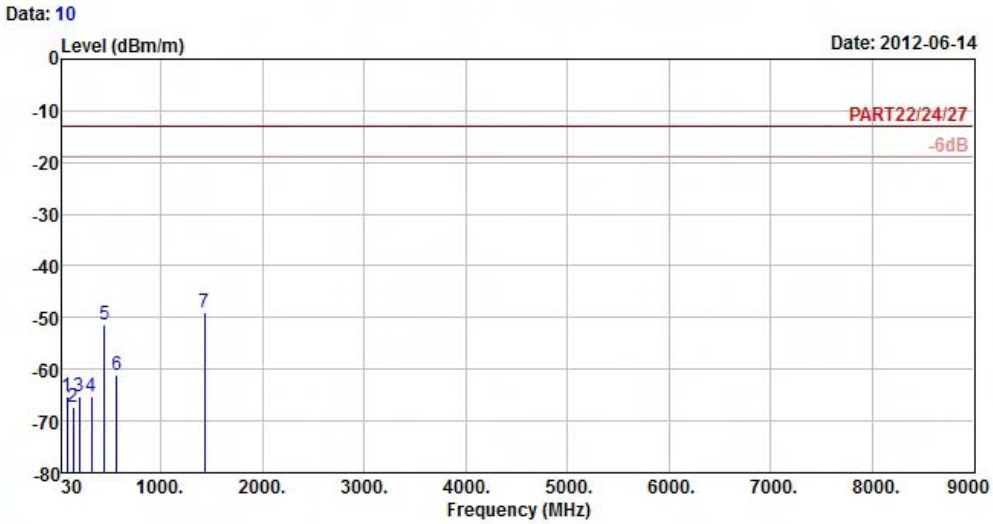
CHANNEL BANDWIDTH: 10MHz / 16QAM

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



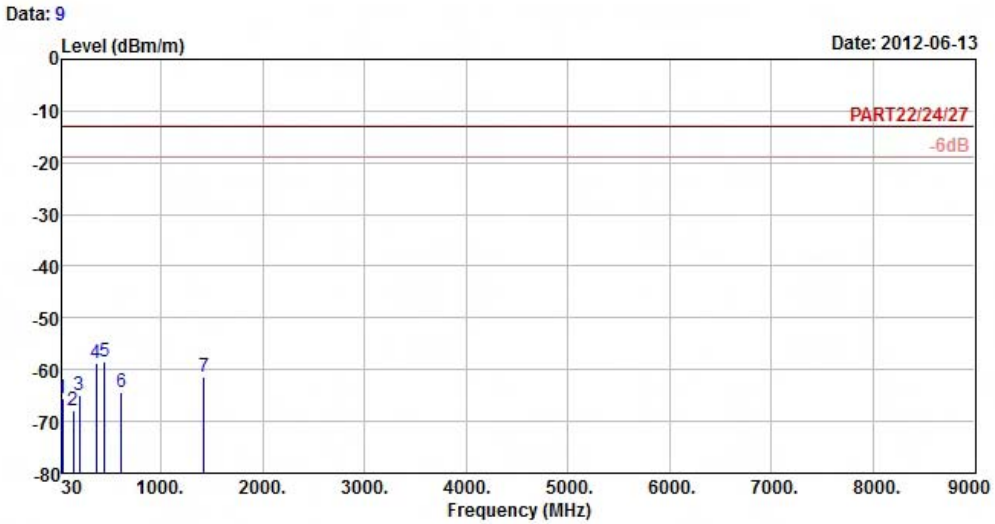
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM1.49)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	45.12	-64.94	-63.18	-13.00	-51.94	-1.76	Peak
2	219.27	-63.91	-56.83	-13.00	-50.91	-7.08	Peak
3	273.54	-62.83	-56.82	-13.00	-49.83	-6.01	Peak
4	318.20	-60.97	-54.73	-13.00	-47.97	-6.24	Peak
5 pp	446.30	-57.39	-52.93	-13.00	-44.39	-4.46	Peak
6	573.70	-65.62	-64.55	-13.00	-52.62	-1.07	Peak
7	1429.00	-57.77	-45.25	-13.00	-44.77	-12.52	Peak



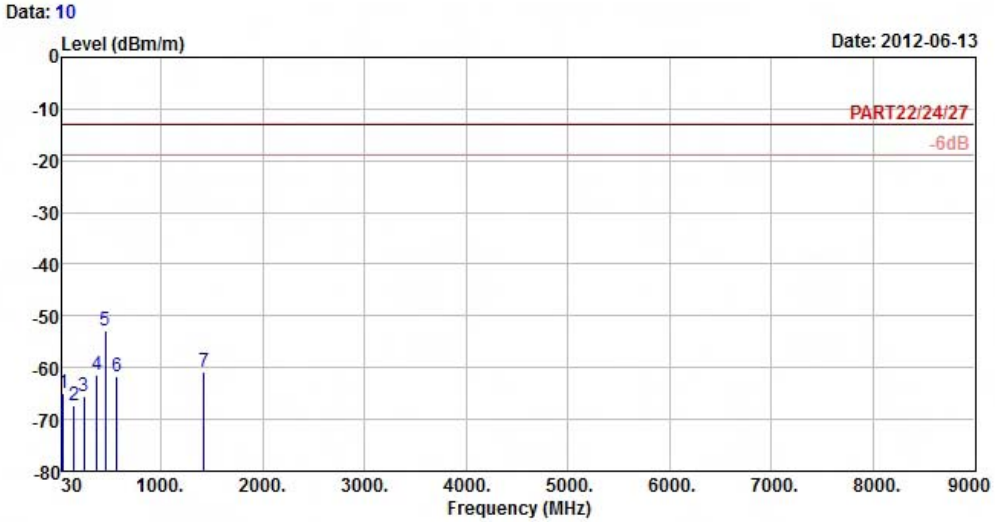
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM1.49)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	77.79	-65.13	-55.11	-13.00	-52.13	-10.02	Peak
2	136.11	-67.32	-60.62	-13.00	-54.32	-6.70	Peak
3	196.86	-65.28	-57.67	-13.00	-52.28	-7.61	Peak
4	318.20	-65.17	-58.93	-13.00	-52.17	-6.24	Peak
5	448.40	-51.25	-46.84	-13.00	-38.25	-4.41	Peak
6	566.00	-61.01	-59.73	-13.00	-48.01	-1.28	Peak
7 pp	1429.00	-48.87	-36.35	-13.00	-35.87	-12.52	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-65.51	-66.58	-13.00	-52.51	1.07	Peak
2	134.76	-67.94	-60.98	-13.00	-54.94	-6.96	Peak
3	196.59	-64.98	-57.37	-13.00	-51.98	-7.61	Peak
4	366.50	-58.80	-52.92	-13.00	-45.80	-5.88	Peak
5 pp	443.50	-58.46	-53.92	-13.00	-45.46	-4.54	Peak
6	608.00	-64.49	-64.28	-13.00	-51.49	-0.21	Peak
7	1420.00	-61.52	-49.01	-13.00	-48.52	-12.51	Peak



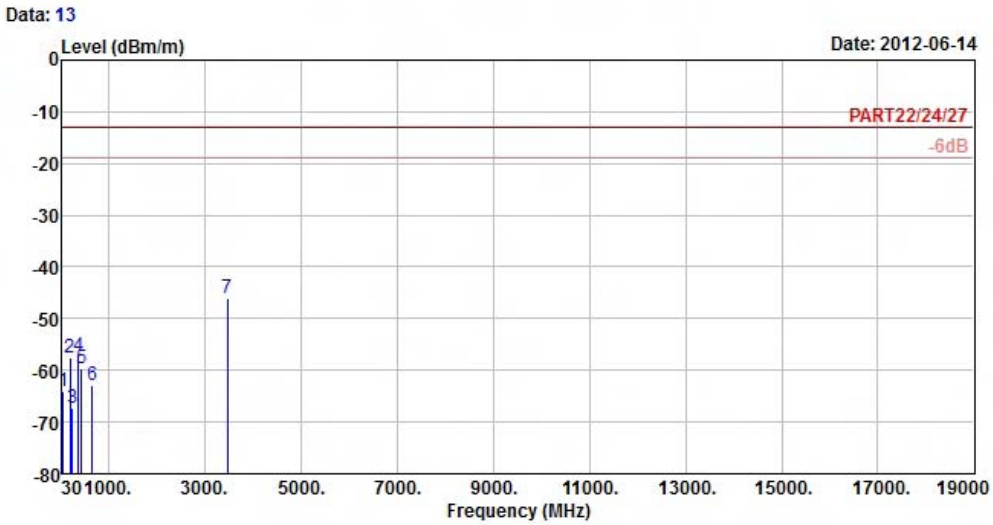
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band17(16QAM50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	40.26	-64.87	-63.41	-13.00	-51.87	-1.46	Peak
2	147.18	-67.37	-61.20	-13.00	-54.37	-6.17	Peak
3	246.27	-65.65	-59.80	-13.00	-52.65	-5.85	Peak
4	367.90	-61.45	-55.57	-13.00	-48.45	-5.88	Peak
5 pp	452.60	-52.70	-48.41	-13.00	-39.70	-4.29	Peak
6	568.10	-61.65	-60.42	-13.00	-48.65	-1.23	Peak
7	1420.00	-60.75	-48.24	-13.00	-47.75	-12.51	Peak

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz / QPSK

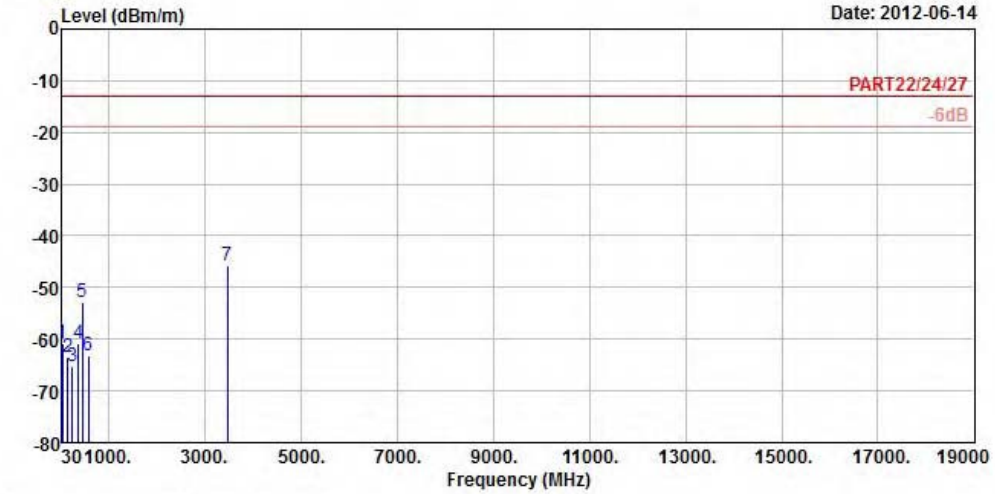
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK1.24)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

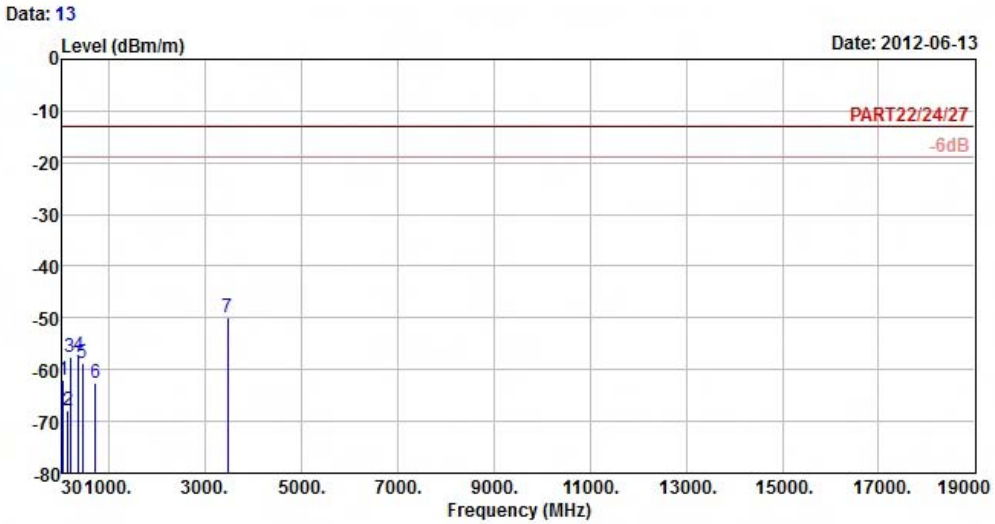
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	57.54	-64.11	-58.46	-13.00	-51.11	-5.65	Peak
2	196.86	-57.63	-50.02	-13.00	-44.63	-7.61	Peak
3	234.12	-67.21	-60.79	-13.00	-54.21	-6.42	Peak
4	365.10	-57.17	-51.27	-13.00	-44.17	-5.90	Peak
5	439.30	-59.68	-55.05	-13.00	-46.68	-4.63	Peak
6	657.70	-63.01	-63.69	-13.00	-50.01	0.68	Peak
7 pp	3468.00	-46.16	-38.53	-13.00	-33.16	-7.63	Peak

Data: 14



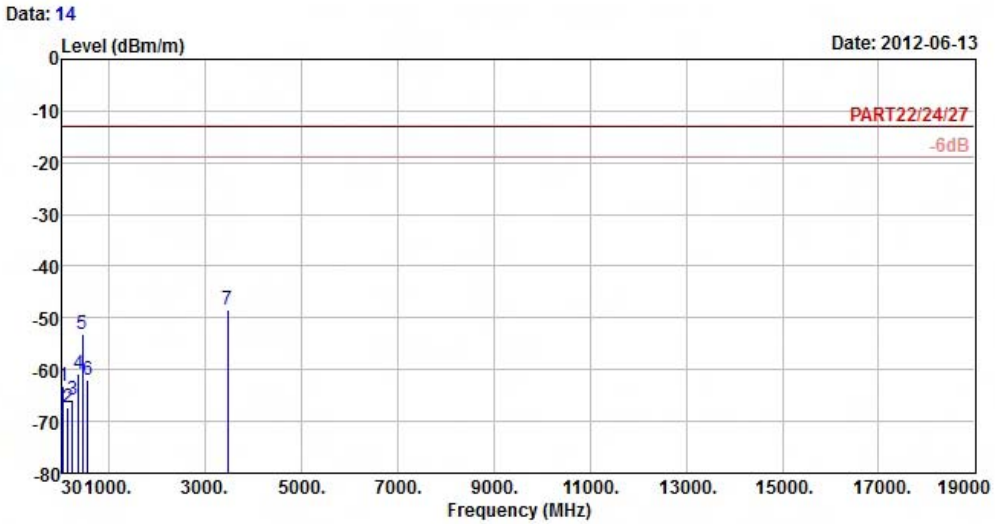
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK1.24)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	33.51	-60.75	-58.91	-13.00	-47.75	-1.84	Peak
2	142.32	-63.56	-57.70	-13.00	-50.56	-5.86	Peak
3	246.27	-65.25	-59.40	-13.00	-52.25	-5.85	Peak
4	365.10	-60.69	-54.79	-13.00	-47.69	-5.90	Peak
5	447.70	-52.96	-48.55	-13.00	-39.96	-4.41	Peak
6	573.70	-63.14	-62.07	-13.00	-50.14	-1.07	Peak
7 pp	3468.00	-45.85	-38.22	-13.00	-32.85	-7.63	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	45.12	-62.11	-60.35	-13.00	-49.11	-1.76	Peak
2	147.45	-67.98	-61.81	-13.00	-54.98	-6.17	Peak
3	196.86	-57.68	-50.07	-13.00	-44.68	-7.61	Peak
4	365.10	-57.36	-51.46	-13.00	-44.36	-5.90	Peak
5	448.40	-58.81	-54.40	-13.00	-45.81	-4.41	Peak
6	725.60	-62.49	-64.11	-13.00	-49.49	1.62	Peak
7 pp	3465.00	-49.75	-42.12	-13.00	-36.75	-7.63	Peak

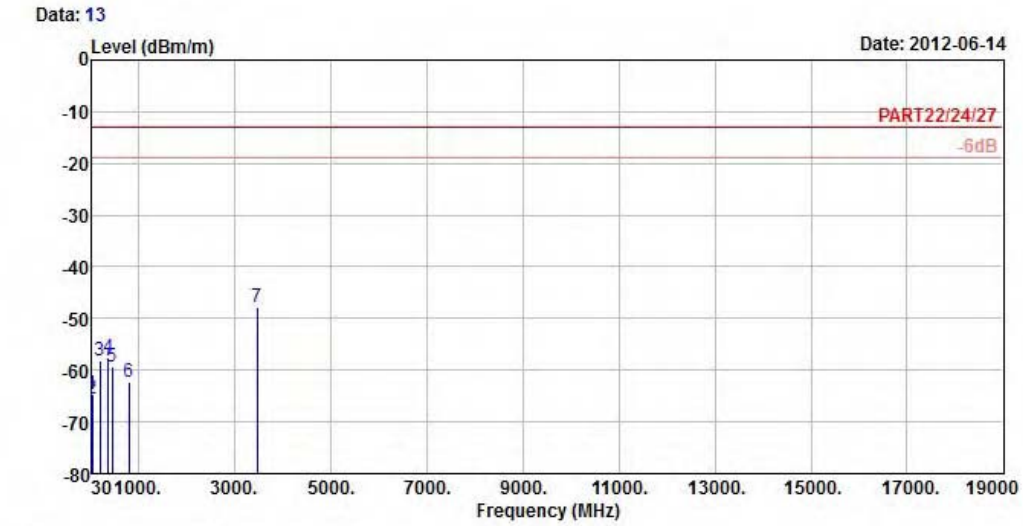


Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	45.39	-63.19	-61.43	-13.00	-50.19	-1.76	Peak
2	147.45	-67.45	-61.28	-13.00	-54.45	-6.17	Peak
3	246.00	-65.74	-59.89	-13.00	-52.74	-5.85	Peak
4	367.90	-60.92	-55.04	-13.00	-47.92	-5.88	Peak
5	447.70	-53.08	-48.67	-13.00	-40.08	-4.41	Peak
6	563.20	-61.93	-60.57	-13.00	-48.93	-1.36	Peak
7 pp	3465.00	-48.53	-40.90	-13.00	-35.53	-7.63	Peak

CHANNEL BANDWIDTH: 5MHz / 16QAM

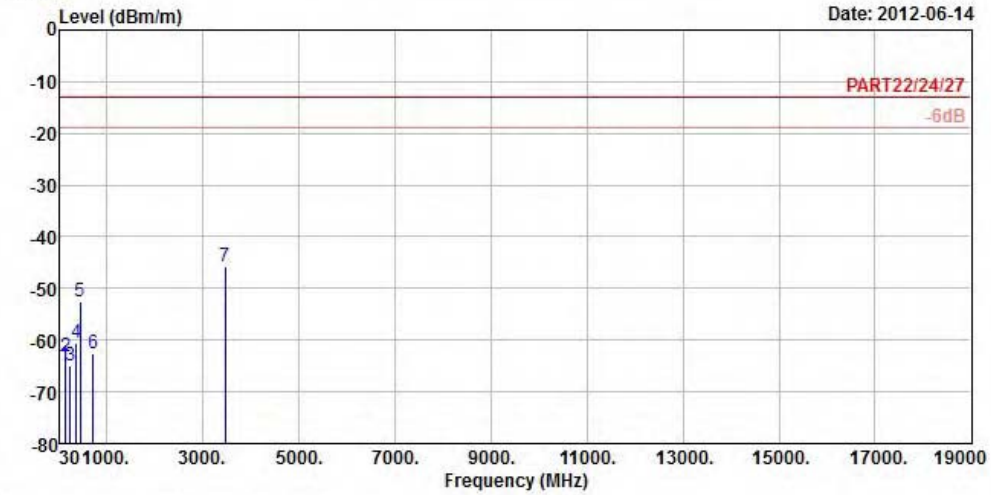
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM1.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-64.52	-65.59	-13.00	-51.52	1.07	Peak
2	41.07	-65.67	-64.21	-13.00	-52.67	-1.46	Peak
3	196.32	-58.09	-50.60	-13.00	-45.09	-7.49	Peak
4	365.10	-57.45	-51.55	-13.00	-44.45	-5.90	Peak
5	446.30	-59.29	-54.83	-13.00	-46.29	-4.46	Peak
6	801.90	-62.30	-64.44	-13.00	-49.30	2.14	Peak
7 pp	3460.00	-47.75	-40.12	-13.00	-34.75	-7.63	Peak

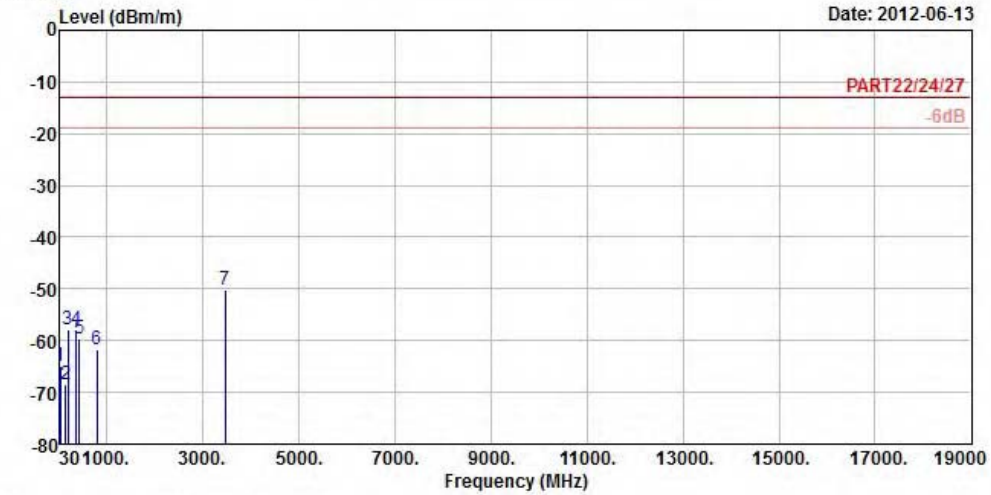
Data: 14



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM1.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

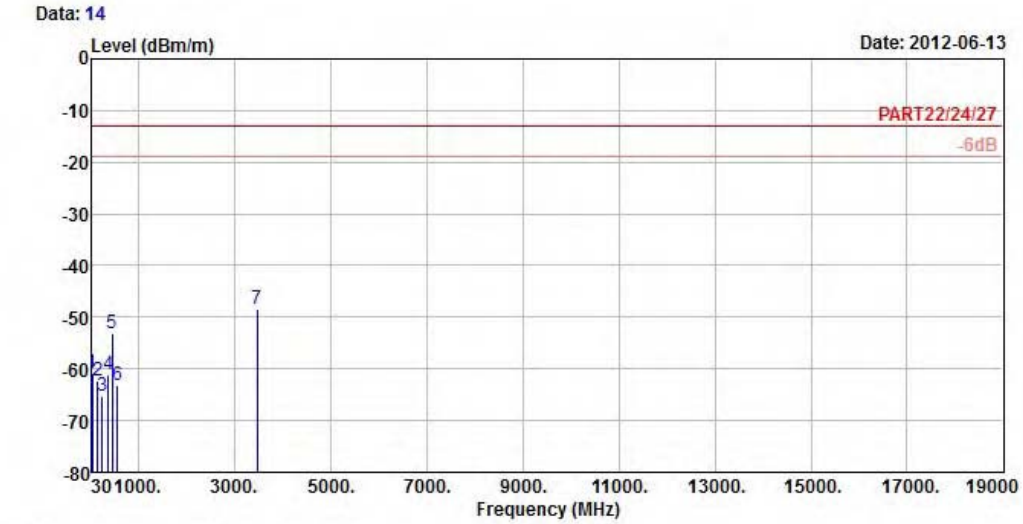
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	134.49	-64.87	-57.91	-13.00	-51.87	-6.96	Peak
2	142.05	-63.10	-57.24	-13.00	-50.10	-5.86	Peak
3	246.27	-64.98	-59.13	-13.00	-51.98	-5.85	Peak
4	365.10	-60.39	-54.49	-13.00	-47.39	-5.90	Peak
5	447.70	-52.68	-48.27	-13.00	-39.68	-4.41	Peak
6	724.20	-62.48	-64.10	-13.00	-49.48	1.62	Peak
7 pp	3460.00	-45.85	-38.22	-13.00	-32.85	-7.63	Peak

Data: 13



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-65.08	-66.15	-13.00	-52.08	1.07	Peak
2	147.72	-68.45	-62.28	-13.00	-55.45	-6.17	Peak
3	196.59	-57.81	-50.20	-13.00	-44.81	-7.61	Peak
4	365.10	-57.87	-51.97	-13.00	-44.87	-5.90	Peak
5	438.60	-59.55	-54.89	-13.00	-46.55	-4.66	Peak
6	795.60	-61.66	-63.76	-13.00	-48.66	2.10	Peak
7 pp	3465.00	-50.07	-42.44	-13.00	-37.07	-7.63	Peak

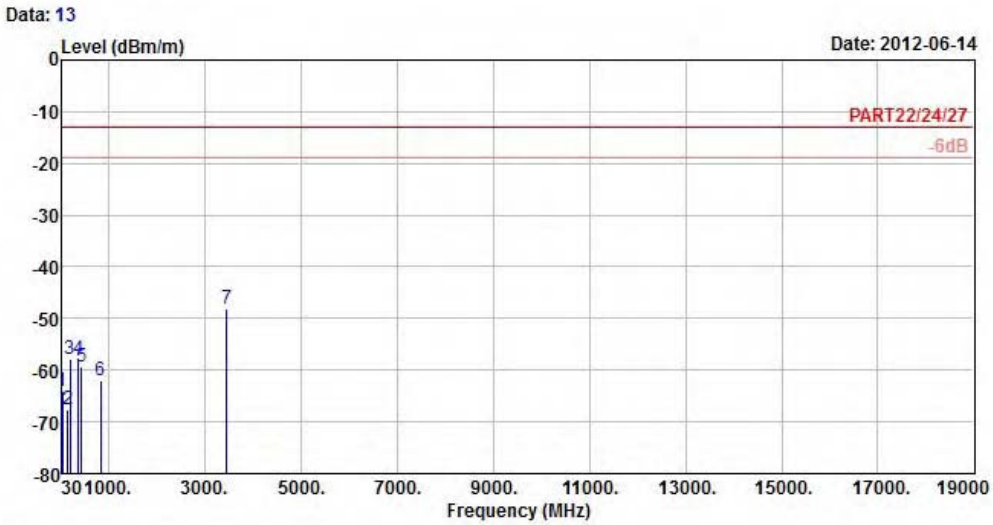


Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM25.0)_5M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	41.34	-60.77	-59.38	-13.00	-47.77	-1.39	Peak
2	142.32	-62.29	-56.43	-13.00	-49.29	-5.86	Peak
3	245.73	-65.37	-59.47	-13.00	-52.37	-5.90	Peak
4	365.10	-61.02	-55.12	-13.00	-48.02	-5.90	Peak
5	447.70	-53.07	-48.66	-13.00	-40.07	-4.41	Peak
6	566.70	-63.13	-61.85	-13.00	-50.13	-1.28	Peak
7 pp	3465.00	-48.54	-40.91	-13.00	-35.54	-7.63	Peak

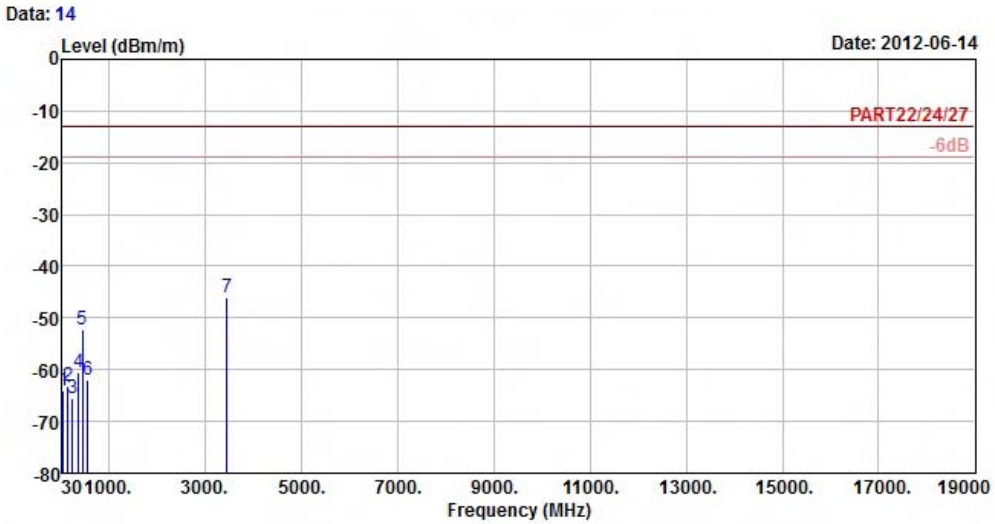
CHANNEL BANDWIDTH: 10MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK 1.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

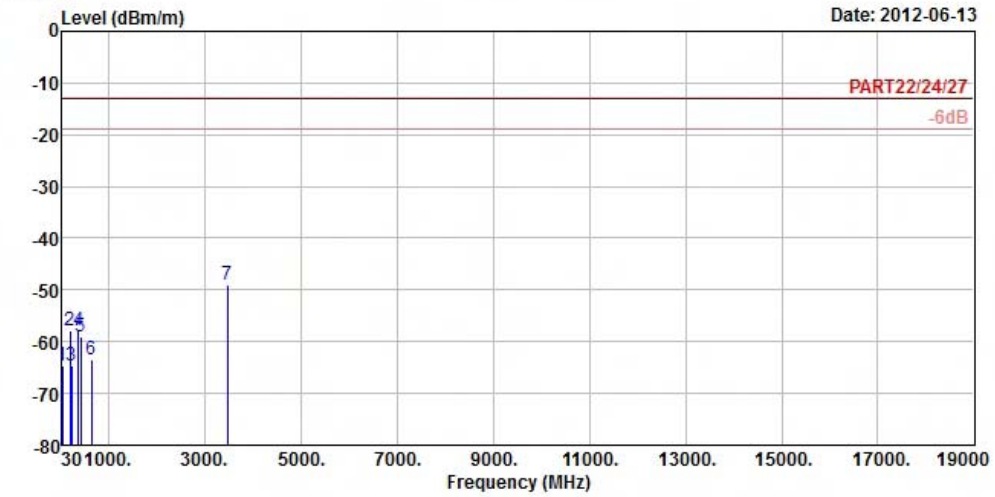
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-64.20	-65.27	-13.00	-51.20	1.07	Peak
2	142.32	-67.63	-61.77	-13.00	-54.63	-5.86	Peak
3	196.86	-57.92	-50.31	-13.00	-44.92	-7.61	Peak
4	365.10	-57.81	-51.91	-13.00	-44.81	-5.90	Peak
5	438.60	-59.47	-54.81	-13.00	-46.47	-4.66	Peak
6	834.80	-62.09	-64.42	-13.00	-49.09	2.33	Peak
7 pp	3456.00	-48.12	-40.46	-13.00	-35.12	-7.66	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK 1.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

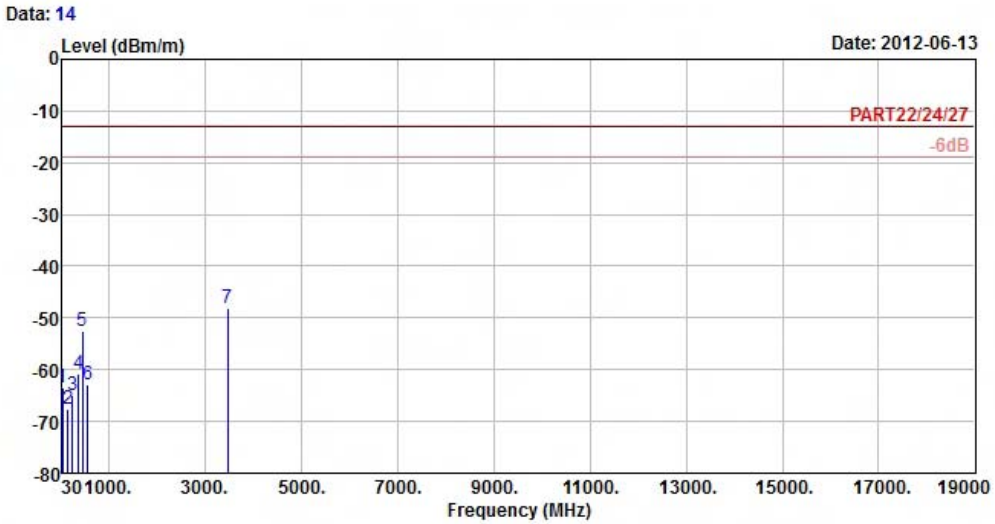
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	48.63	-64.17	-60.71	-13.00	-51.17	-3.46	Peak
2	142.32	-63.31	-57.45	-13.00	-50.31	-5.86	Peak
3	246.27	-65.50	-59.65	-13.00	-52.50	-5.85	Peak
4	365.10	-60.57	-54.67	-13.00	-47.57	-5.90	Peak
5	447.70	-52.30	-47.89	-13.00	-39.30	-4.41	Peak
6	563.90	-62.05	-60.69	-13.00	-49.05	-1.36	Peak
7 pp	3456.00	-45.92	-38.26	-13.00	-32.92	-7.66	Peak

Data: 13



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK 50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-64.60	-65.67	-13.00	-51.60	1.07	Peak
2	200.10	-57.76	-49.81	-13.00	-44.76	-7.95	Peak
3	230.34	-64.59	-58.04	-13.00	-51.59	-6.55	Peak
4	365.10	-57.78	-51.88	-13.00	-44.78	-5.90	Peak
5	409.20	-58.98	-53.59	-13.00	-45.98	-5.39	Peak
6	638.10	-63.41	-63.74	-13.00	-50.41	0.33	Peak
7 pp	3465.00	-49.00	-41.37	-13.00	-36.00	-7.63	Peak

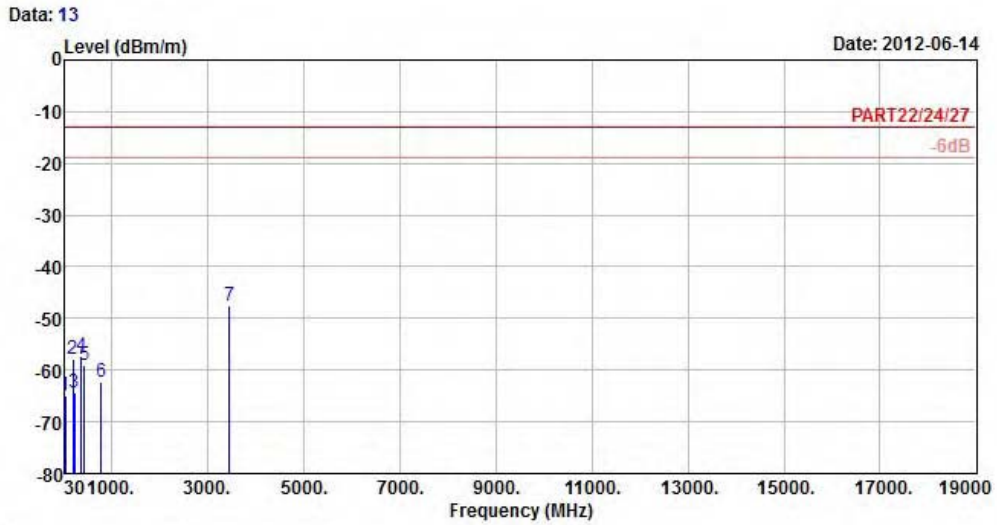


Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(QPSK 50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	39.18	-63.40	-61.66	-13.00	-50.40	-1.74	Peak
2	147.72	-67.55	-61.38	-13.00	-54.55	-6.17	Peak
3	246.00	-64.86	-59.01	-13.00	-51.86	-5.85	Peak
4	364.40	-60.72	-54.82	-13.00	-47.72	-5.90	Peak
5	448.40	-52.56	-48.15	-13.00	-39.56	-4.41	Peak
6	566.00	-63.02	-61.74	-13.00	-50.02	-1.28	Peak
7 pp	3465.00	-48.11	-40.48	-13.00	-35.11	-7.63	Peak

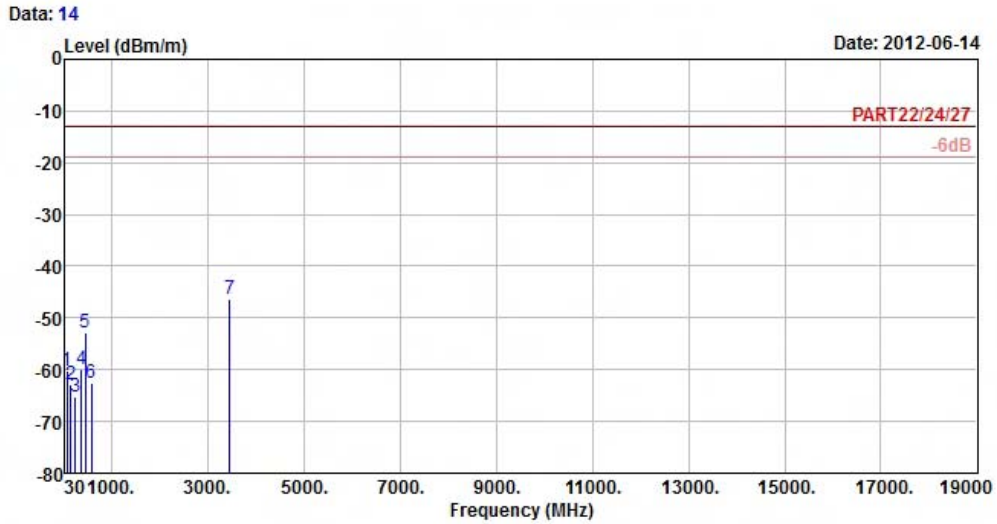
CHANNEL BANDWIDTH: 10MHz / 16QAM

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



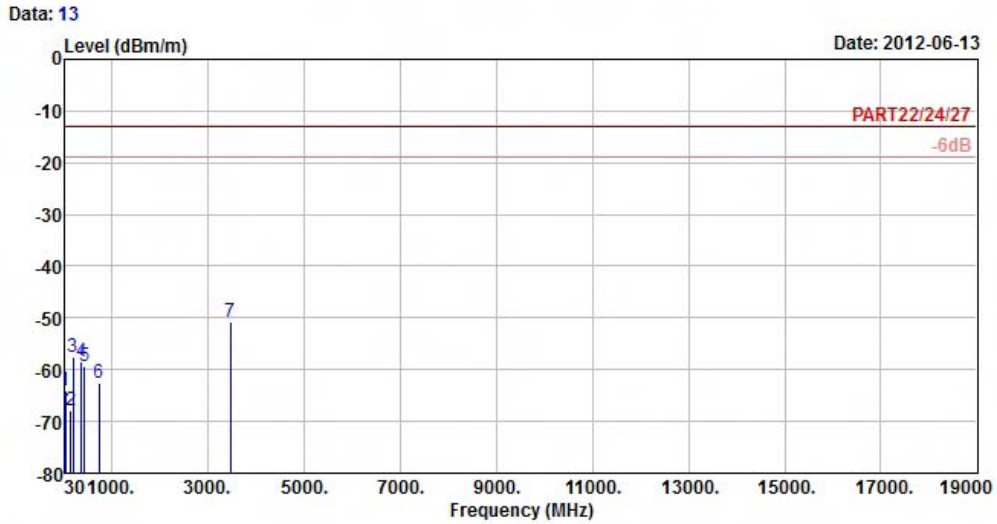
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM1.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-65.09	-66.16	-13.00	-52.09	1.07	Peak
2	196.86	-57.98	-50.37	-13.00	-44.98	-7.61	Peak
3	230.34	-64.40	-57.85	-13.00	-51.40	-6.55	Peak
4	365.10	-57.40	-51.50	-13.00	-44.40	-5.90	Peak
5	428.80	-59.19	-54.29	-13.00	-46.19	-4.90	Peak
6	785.80	-62.39	-64.42	-13.00	-49.39	2.03	Peak
7 pp	3456.00	-47.66	-40.00	-13.00	-34.66	-7.66	Peak



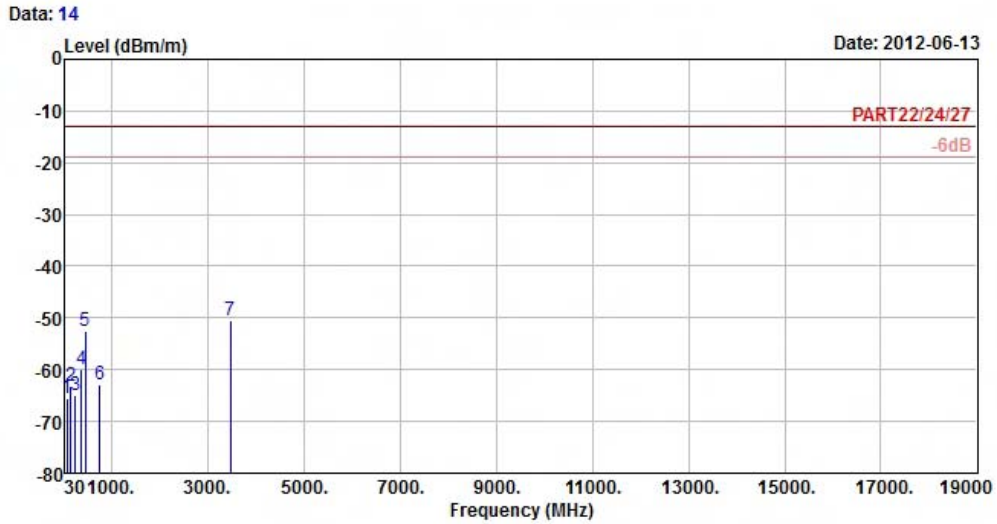
Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM1.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	68.61	-60.32	-51.30	-13.00	-47.32	-9.02	Peak
2	142.05	-62.83	-56.97	-13.00	-49.83	-5.86	Peak
3	245.73	-65.22	-59.32	-13.00	-52.22	-5.90	Peak
4	365.10	-59.99	-54.09	-13.00	-46.99	-5.90	Peak
5	447.70	-52.91	-48.50	-13.00	-39.91	-4.41	Peak
6	567.40	-62.66	-61.41	-13.00	-49.66	-1.25	Peak
7 pp	3456.00	-46.37	-38.71	-13.00	-33.37	-7.66	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-63.91	-64.98	-13.00	-50.91	1.07	Peak
2	146.91	-67.96	-61.79	-13.00	-54.96	-6.17	Peak
3	196.32	-57.68	-50.19	-13.00	-44.68	-7.49	Peak
4	365.10	-58.30	-52.40	-13.00	-45.30	-5.90	Peak
5	437.90	-59.20	-54.54	-13.00	-46.20	-4.66	Peak
6	739.60	-62.67	-64.39	-13.00	-49.67	1.72	Peak
7 pp	3465.00	-50.66	-43.03	-13.00	-37.66	-7.63	Peak



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: 3RN13
Remark : LTE Band4(16QAM50.0)_10M
Tested by : Kay Wu
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	74.01	-65.48	-55.80	-13.00	-52.48	-9.68	Peak
2	142.32	-63.22	-57.36	-13.00	-50.22	-5.86	Peak
3	246.00	-64.94	-59.09	-13.00	-51.94	-5.85	Peak
4	365.10	-59.91	-54.01	-13.00	-46.91	-5.90	Peak
5	448.40	-52.51	-48.10	-13.00	-39.51	-4.41	Peak
6	745.20	-62.96	-64.71	-13.00	-49.96	1.75	Peak
7 pp	3465.00	-50.36	-42.73	-13.00	-37.36	-7.63	Peak

5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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