

Partial FCC Test Report (PART 22)

Report No.: RFBHTZ-WTW-P22090089-2

FCC ID: PPQ202008EG91NAXD

Test Model: EG91NAXD

Received Date: Sep. 16, 2022

Test Date: Feb. 09, 2023

Issued Date: Mar. 15, 2023

Applicant: LITE-ON Technology Corp.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBHTZ-WTW-P22090089-2	Original Release	Mar. 15, 2023

1 Certificate of Conformity

Product: EG91NAXD

Brand: LITEON

Test Model: EG91NAXD

Sample Status: Engineering Sample

Applicant: LITE-ON Technology Corp.

Test Date: Feb. 09, 2023

Standards: FCC Part 22, Subpart H

The above equipment 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 RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu , **Date:** Mar. 15, 2023
Gina Liu / Specialist

Approved by : Jeremy Lin , **Date:** Mar. 15, 2023
Jeremy Lin / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1046 22.913 (d)	Peak to Average Ratio	N/A	Refer to Note
2.1055 22.355	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
22.917	Band Edge Measurements	N/A	Refer to Note
2.1051 22.917	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -20.77 dB at 44.55 MHz.

Note:

1. This report is a Class II change partial report. Therefore, only test item of Radiated Spurious Emissions tests and Effective Radiated Power were performed for this report. Other testing data please refer to TA Technology (Shanghai) Co., Ltd. report no.: R2006A0379-R1 and R2006A0379-R4.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 200 MHz	2.95 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Turn Table Controller Max-Full	MG-7802	NA	NA	NA
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 27, 2022	Apr. 26, 2023
Signal Analyzer Agilent	N9010A	MY52220207	Jan. 03, 2023	Jan. 02, 2024
Pre-amplifier EMCI	EMC001340	980201	Sep. 23, 2022	Sep. 22, 2023
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	Jan. 07, 2023	Jan. 06, 2024
Pre-Amplifier EMCI	EMC 330H	980112	Oct. 01, 2022	Sep. 30, 2023
Bi_Log Antenna Schwarzbeck	VULB9168	9168-472	Oct. 21, 2022	Oct. 20, 2023
RF Coaxial Cable WORKEN	8D-FB	Cable-Ch10-01	Oct. 01, 2022	Sep. 30, 2023
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	Nov. 13, 2022	Nov. 12, 2023
Pre-Amplifier EMCI	EMC 012645	980115	Oct. 01, 2022	Sep. 30, 2023
RF Coaxial Cable EMCI	EMC104-SM-SM-800 0+3000	171005	Oct. 01, 2022	Sep. 30, 2023
RF Coaxial Cable HUBER SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 01, 2022	Sep. 30, 2023
RF FLITER MICRO-TRONICS	BRM50716	060	Jan. 11, 2023	Jan. 10, 2024
RF FLITER MICRO-TRONICS	BRM17690	004	Jan. 11, 2023	Jan. 10, 2024
Boresight antenna tower fixture BV	BAF-02	7	NA	NA
Pre-Amplifier EMCI	EMC 184045	980116	Oct. 01, 2022	Sep. 30, 2023
Horn Antenna Schwarzbeck	BBHA 9170	148	Nov. 13, 2022	Nov. 12, 2023
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Jul. 09, 2022	Jul. 08, 2023
RF Coaxial Cable EMCI	EMC102-KM-KM-300 0	150929	Jul. 09, 2022	Jul. 08, 2023
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 26, 2021	Aug. 25, 2023

Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HY - 966 chamber 5.

3 General Information

3.1 General Description of EUT

Product	EG91NAXD		
Brand	LITEON		
Test Model	EG91NAXD		
Status of EUT	Engineering Sample		
Power Supply Rating	208- 240Vac		
Modulation Type	WCDMA	QPSK	
	LTE	QPSK, 16QAM	
Frequency Range	WCDMA Band 5	826.4 ~ 846.6 MHz	
	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz	
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz	
	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz	
	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz	
	LTE 26 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz	
	LTE 26 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz	
	LTE 26 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz	
	LTE 26 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz	
	LTE 26 (Channel Bandwidth: 15 MHz)	831.5 ~ 841.5 MHz	
Max. ERP Power	WCDMA Band 5	151.356 mW (21.80dBm)	
		QPSK	16QAM
	LTE 5 (Channel Bandwidth: 1.4 MHz)	127.350 mW (21.05dBm)	100.462 mW (20.02dBm)
	LTE 5 (Channel Bandwidth: 3 MHz)	136.458 mW (21.35dBm)	107.647 mW (20.32dBm)
	LTE 5 (Channel Bandwidth: 5 MHz)	149.624 mW (21.75dBm)	115.878 mW (20.64dBm)
	LTE 5 (Channel Bandwidth: 10 MHz)	161.065 mW (22.07dBm)	125.603 mW (20.99dBm)
	LTE 26 (Channel Bandwidth: 1.4 MHz)	167.109 mW (22.23dBm)	133.968 mW (21.27dBm)
	LTE 26 (Channel Bandwidth: 3 MHz)	181.134 mW (22.58dBm)	142.889 mW (21.55dBm)
	LTE 26 (Channel Bandwidth: 5 MHz)	197.242 mW (22.95dBm)	155.239 mW (21.91dBm)
	LTE 26 (Channel Bandwidth: 10 MHz)	212.324 mW (23.27dBm)	166.725 mW (22.22dBm)
	LTE 26 (Channel Bandwidth: 15 MHz)	231.206 mW (23.64dBm)	183.231 mW (22.63dBm)
Antenna Type	Monopole Coupling with 1.9 dBi gain		
Accessory Device	N/A		
Data Cable Supplied	N/A		

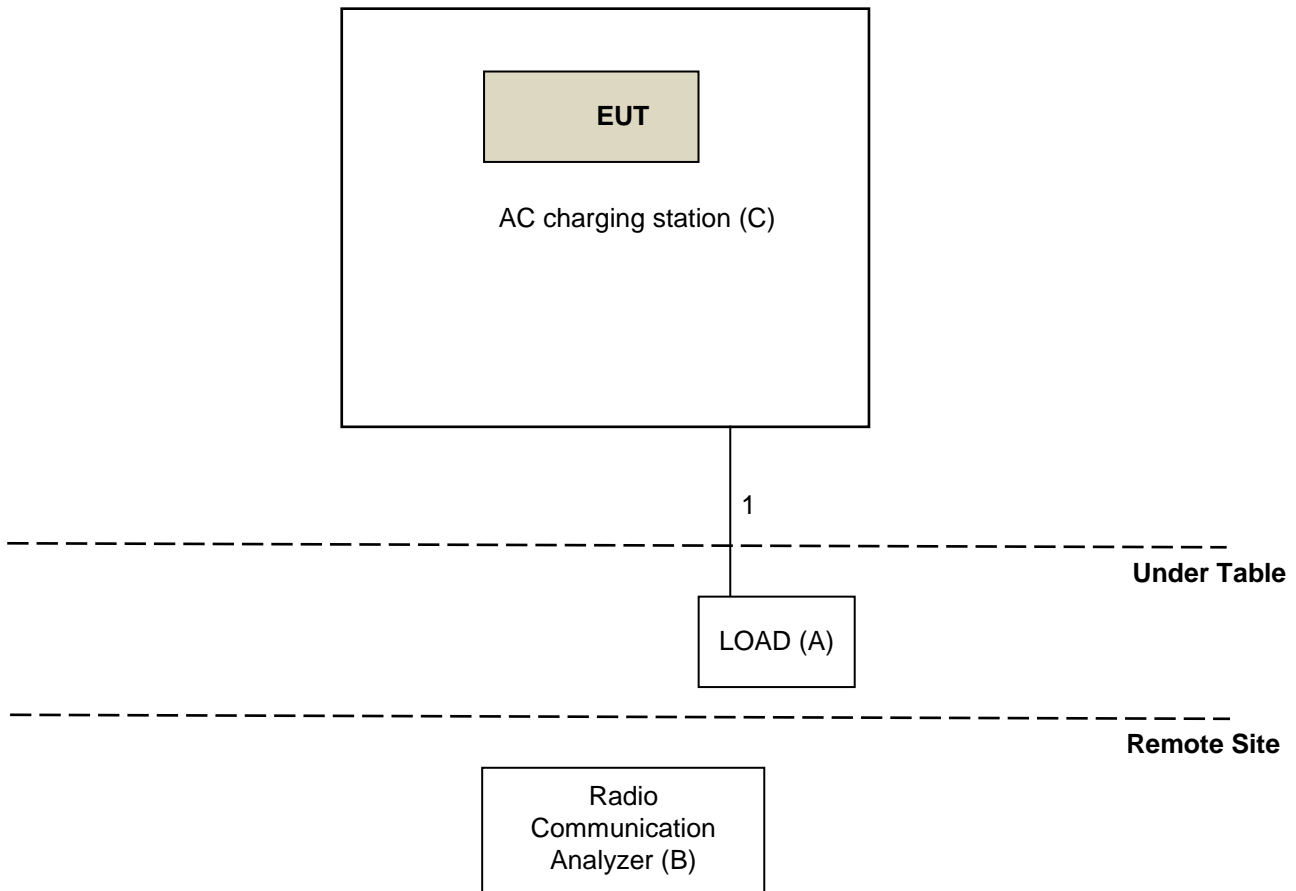
Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to TA Technology (Shanghai) Co., Ltd. report no.: R2006A0379-R1 and R2006A0379-R4. The difference compared with original report are adding end-product and antenna (Brand: Auden / Model: D32788-30). Therefore, only test item of Effective Isotropic Radiated Power & Radiated Emissions were performed for this report. Other testing data please refer to original report.
2. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Model	W1-UC168-0MK1ER
LTE module (FCC: PPQ202008EG91NAXD)	✓
Wi-Fi module (FCC: PPQLILYW131)	✓
RFID module (FCC: PPQRYORR2L)	✓
Ethernet	✓
LCD module	✓

3. Detail antenna specification please refer to antenna datasheet or an antenna gain measurement report.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test



3.2.1 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	Remarks
A	LOAD	NA	NA	NA	NA	Provided by Lab
B	Radio Communication Analyzer	Anritsu	MT8820C	6201300640	N/A	Provided by Lab
C	AC charging station	LITEON	EX-1193-M,	NA	NA	Provided by Client

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ-45 Cable	2	1.8	N	0	Provided by Lab

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items B acted as communication partners to transfer data.

3.3 Test Mode Applicability and Tested Channel Detail

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 as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	Radiated Emission
WCDMA Band 5	Z-Axis
LTE Band 5	Z-Axis
LTE Band 26	Z-Axis

WCDMA Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA, HSDPA, HSUPA
-	Radiated Emission Below 1GHz	4132 to 4233	4182	WCDMA
-	Radiated Emission Above 1GHz	4132 to 4233	4182	WCDMA

Note: For radiated emission, select the worst radiated emission channel (original report) for final testing.

LTE Band 5

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	20450 to 20600	20525	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission, select the worst radiated emission channel (original report) for final testing.

LTE Band 26

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	26865 to 26965	26915	15MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26865 to 26965	26915	15MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission, select the worst radiated emission channel (original report) for final testing.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 60 % RH	120 Vac, 60 Hz	Vincent Chen
Radiated Emission	25 deg. C, 72 % RH	120 Vac, 60 Hz	Vincent Chen

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

3.5 General Description of Applied Standards and references

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

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

ANSI 63.26-2015

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

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

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with CDMA, GSM, WCDMA, LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

$$\text{ERP} = P_{\text{Meas}} + G_{\text{T}} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

G_{T} gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA V		
TX Channel	4132	4182	4233
Rx Channel	4357	4407	4458
Frequency	826.4	836.4	846.6
RMC 12.2K	21.85	22.05	21.77
HSDPA Subtest-1	21.56	21.76	21.52
HSDPA Subtest-2	21.54	21.81	21.49
HSDPA Subtest-3	21.12	21.31	20.96
HSDPA Subtest-4	21.01	21.28	20.92
DC-HSDPA Subtest-1	21.50	21.78	21.46
DC-HSDPA Subtest-2	21.44	21.71	21.41
DC-HSDPA Subtest-3	20.94	21.24	20.86
DC-HSDPA Subtest-4	20.86	21.22	20.76
HSUPA Subtest-1	21.56	21.70	21.50
HSUPA Subtest-2	19.54	19.66	19.50
HSUPA Subtest-3	20.51	20.72	20.41
HSUPA Subtest-4	19.61	19.79	19.45
HSUPA Subtest-5	21.39	21.74	21.52

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.15	22.32	22.09
		1	24	22.00	22.21	21.98
		1	49	21.89	22.09	21.74
		25	0	21.02	21.17	20.99
		25	12	20.84	20.98	20.79
		25	25	20.69	20.91	20.67
		50	0	20.99	21.18	20.94
10M	16QAM	1	0	21.14	21.24	21.03
		1	24	20.99	21.22	20.92
		1	49	20.87	20.98	20.77
		25	0	19.95	20.07	19.93
		25	12	19.75	19.92	19.79
		25	25	19.68	19.88	19.66
		50	0	19.97	20.19	19.88
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	21.83	22.00	21.75
		1	12	21.63	21.88	21.63
		1	24	21.57	21.72	21.40
		12	0	20.68	20.80	20.67
		12	6	20.50	20.66	20.45
		12	13	20.37	20.55	20.33
		25	0	20.67	20.82	20.61
5M	16QAM	1	0	20.80	20.89	20.68
		1	12	20.66	20.89	20.55
		1	24	20.55	20.63	20.44
		12	0	19.63	19.75	19.59
		12	6	19.41	19.57	19.46
		12	13	19.34	19.51	19.34
		25	0	19.62	19.85	19.53

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	21.47	21.60	21.38
		1	7	21.29	21.55	21.29
		1	14	21.23	21.35	21.05
		8	0	20.33	20.45	20.28
		8	3	20.10	20.26	20.08
		8	7	20.02	20.23	19.98
		15	0	20.30	20.46	20.20
3M	16QAM	1	0	20.45	20.57	20.33
		1	7	20.30	20.54	20.21
		1	14	20.17	20.25	20.04
		8	0	19.24	19.40	19.24
		8	3	19.11	19.23	19.11
		8	7	18.94	19.15	18.96
		15	0	19.30	19.50	19.19
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	21.10	21.30	21.05
		1	2	20.98	21.22	20.88
		1	5	20.91	21.02	20.73
		3	0	20.00	20.16	19.98
		3	1	19.81	19.91	19.71
		3	3	19.67	19.87	19.65
		6	0	19.99	20.12	19.90
1.4M	16QAM	1	0	20.10	20.27	20.04
		1	2	19.95	20.18	19.84
		1	5	19.80	19.94	19.69
		3	0	18.93	19.05	18.90
		3	1	18.78	18.92	18.74
		3	3	18.62	18.83	18.64
		6	0	18.91	19.16	18.87

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	23.76	23.89	23.67
		1	37	23.65	23.74	23.54
		1	74	23.42	23.56	23.34
		36	0	22.64	22.73	22.55
		36	19	22.44	22.56	22.35
		36	39	22.38	22.57	22.27
		75	0	22.57	22.68	22.46
15M	16QAM	1	0	22.69	22.88	22.65
		1	37	22.58	22.69	22.54
		1	74	22.38	22.43	22.35
		36	0	21.52	21.71	21.52
		36	19	21.35	21.46	21.29
		36	39	21.18	21.50	21.27
		75	0	21.48	21.70	21.41
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.41	23.52	23.30
		1	24	23.26	23.43	23.25
		1	49	23.12	23.20	23.08
		25	0	22.26	22.45	22.22
		25	12	22.08	22.22	22.01
		25	25	21.92	22.20	21.89
		50	0	22.26	22.47	22.13
10M	16QAM	1	0	22.32	22.47	22.21
		1	24	22.26	22.34	22.07
		1	49	22.03	22.24	21.96
		25	0	21.23	21.34	21.16
		25	12	21.09	21.14	21.02
		25	25	21.04	21.04	20.89
		50	0	21.11	21.34	21.06

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.08	23.20	22.98
		1	12	22.93	23.11	22.86
		1	24	22.77	22.86	22.69
		12	0	21.96	22.13	21.86
		12	6	21.75	21.89	21.60
		12	13	21.59	21.84	21.55
		25	0	21.93	22.11	21.80
5M	16QAM	1	0	21.99	22.16	21.95
		1	12	21.88	22.00	21.83
		1	24	21.72	21.96	21.56
		12	0	20.94	20.97	20.70
		12	6	20.74	20.87	20.64
		12	13	20.61	20.76	20.56
		25	0	20.84	20.92	20.71
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.77	22.83	22.67
		1	7	22.60	22.76	22.54
		1	14	22.43	22.55	22.36
		8	0	21.60	21.77	21.53
		8	3	21.41	21.57	21.23
		8	7	21.27	21.53	21.21
		15	0	21.56	21.74	21.46
3M	16QAM	1	0	21.66	21.80	21.62
		1	7	21.55	21.63	21.51
		1	14	21.39	21.62	21.19
		8	0	20.60	20.60	20.37
		8	3	20.40	20.53	20.28
		8	7	20.26	20.40	20.24
		15	0	20.49	20.56	20.37

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.39	22.48	22.35
		1	2	22.24	22.39	22.17
		1	5	22.06	22.21	21.94
		3	0	21.29	21.45	21.20
		3	1	21.04	21.23	20.85
		3	3	20.90	21.23	20.90
		6	0	21.22	21.43	21.11
1.4M	16QAM	1	0	21.28	21.52	21.26
		1	2	21.19	21.35	21.14
		1	5	21.06	21.28	20.86
		3	0	20.25	20.30	20.01
		3	1	20.08	20.20	19.91
		3	3	19.93	20.08	19.88
		6	0	20.19	20.27	20.02

ERP Power (dBm)

Band	WCDMA V		
	4132	4182	4233
TX Channel	4132	4182	4233
Rx Channel	4357	4407	4458
Frequency	826.4	836.4	846.6
RMC 12.2K	21.60	21.80	21.52
HSDPA Subtest-1	21.31	21.51	21.27
HSDPA Subtest-2	21.29	21.56	21.24
HSDPA Subtest-3	20.87	21.06	20.71
HSDPA Subtest-4	20.76	21.03	20.67
DC-HSDPA Subtest-1	21.25	21.53	21.21
DC-HSDPA Subtest-2	21.19	21.46	21.16
DC-HSDPA Subtest-3	20.69	20.99	20.61
DC-HSDPA Subtest-4	20.61	20.97	20.51
HSUPA Subtest-1	21.31	21.45	21.25
HSUPA Subtest-2	19.29	19.41	19.25
HSUPA Subtest-3	20.26	20.47	20.16
HSUPA Subtest-4	19.36	19.54	19.20
HSUPA Subtest-5	21.14	21.49	21.27

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	21.90	22.07	21.84
		1	24	21.75	21.96	21.73
		1	49	21.64	21.84	21.49
		25	0	20.77	20.92	20.74
		25	12	20.59	20.73	20.54
		25	25	20.44	20.66	20.42
		50	0	20.74	20.93	20.69
10M	16QAM	1	0	20.89	20.99	20.78
		1	24	20.74	20.97	20.67
		1	49	20.62	20.73	20.52
		25	0	19.70	19.82	19.68
		25	12	19.50	19.67	19.54
		25	25	19.43	19.63	19.41
		50	0	19.72	19.94	19.63
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	21.58	21.75	21.50
		1	12	21.38	21.63	21.38
		1	24	21.32	21.47	21.15
		12	0	20.43	20.55	20.42
		12	6	20.25	20.41	20.20
		12	13	20.12	20.30	20.08
		25	0	20.42	20.57	20.36
5M	16QAM	1	0	20.55	20.64	20.43
		1	12	20.41	20.64	20.30
		1	24	20.30	20.38	20.19
		12	0	19.38	19.50	19.34
		12	6	19.16	19.32	19.21
		12	13	19.09	19.26	19.09
		25	0	19.37	19.60	19.28

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	21.22	21.35	21.13
		1	7	21.04	21.30	21.04
		1	14	20.98	21.10	20.80
		8	0	20.08	20.20	20.03
		8	3	19.85	20.01	19.83
		8	7	19.77	19.98	19.73
		15	0	20.05	20.21	19.95
3M	16QAM	1	0	20.20	20.32	20.08
		1	7	20.05	20.29	19.96
		1	14	19.92	20.00	19.79
		8	0	18.99	19.15	18.99
		8	3	18.86	18.98	18.86
		8	7	18.69	18.90	18.71
		15	0	19.05	19.25	18.94
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	20.85	21.05	20.80
		1	2	20.73	20.97	20.63
		1	5	20.66	20.77	20.48
		3	0	19.75	19.91	19.73
		3	1	19.56	19.66	19.46
		3	3	19.42	19.62	19.40
		6	0	19.74	19.87	19.65
1.4M	16QAM	1	0	19.85	20.02	19.79
		1	2	19.70	19.93	19.59
		1	5	19.55	19.69	19.44
		3	0	18.68	18.80	18.65
		3	1	18.53	18.67	18.49
		3	3	18.37	18.58	18.39
		6	0	18.66	18.91	18.62

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	23.51	23.64	23.42
		1	37	23.40	23.49	23.29
		1	74	23.17	23.31	23.09
		36	0	22.39	22.48	22.30
		36	19	22.19	22.31	22.10
		36	39	22.13	22.32	22.02
		75	0	22.32	22.43	22.21
15M	16QAM	1	0	22.44	22.63	22.40
		1	37	22.33	22.44	22.29
		1	74	22.13	22.18	22.10
		36	0	21.27	21.46	21.27
		36	19	21.10	21.21	21.04
		36	39	20.93	21.25	21.02
		75	0	21.23	21.45	21.16
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.16	23.27	23.05
		1	24	23.01	23.18	23.00
		1	49	22.87	22.95	22.83
		25	0	22.01	22.20	21.97
		25	12	21.83	21.97	21.76
		25	25	21.67	21.95	21.64
		50	0	22.01	22.22	21.88
10M	16QAM	1	0	22.07	22.22	21.96
		1	24	22.01	22.09	21.82
		1	49	21.78	21.99	21.71
		25	0	20.98	21.09	20.91
		25	12	20.84	20.89	20.77
		25	25	20.79	20.79	20.64
		50	0	20.86	21.09	20.81

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	22.83	22.95	22.73
		1	12	22.68	22.86	22.61
		1	24	22.52	22.61	22.44
		12	0	21.71	21.88	21.61
		12	6	21.50	21.64	21.35
		12	13	21.34	21.59	21.30
		25	0	21.68	21.86	21.55
5M	16QAM	1	0	21.74	21.91	21.70
		1	12	21.63	21.75	21.58
		1	24	21.47	21.71	21.31
		12	0	20.69	20.72	20.45
		12	6	20.49	20.62	20.39
		12	13	20.36	20.51	20.31
		25	0	20.59	20.67	20.46
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.52	22.58	22.42
		1	7	22.35	22.51	22.29
		1	14	22.18	22.30	22.11
		8	0	21.35	21.52	21.28
		8	3	21.16	21.32	20.98
		8	7	21.02	21.28	20.96
		15	0	21.31	21.49	21.21
3M	16QAM	1	0	21.41	21.55	21.37
		1	7	21.30	21.38	21.26
		1	14	21.14	21.37	20.94
		8	0	20.35	20.35	20.12
		8	3	20.15	20.28	20.03
		8	7	20.01	20.15	19.99
		15	0	20.24	20.31	20.12

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.14	22.23	22.10
		1	2	21.99	22.14	21.92
		1	5	21.81	21.96	21.69
		3	0	21.04	21.20	20.95
		3	1	20.79	20.98	20.60
		3	3	20.65	20.98	20.65
		6	0	20.97	21.18	20.86
1.4M	16QAM	1	0	21.03	21.27	21.01
		1	2	20.94	21.10	20.89
		1	5	20.81	21.03	20.61
		3	0	20.00	20.05	19.76
		3	1	19.83	19.95	19.66
		3	3	19.68	19.83	19.63
		6	0	19.94	20.02	19.77

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) 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 height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7
 - $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

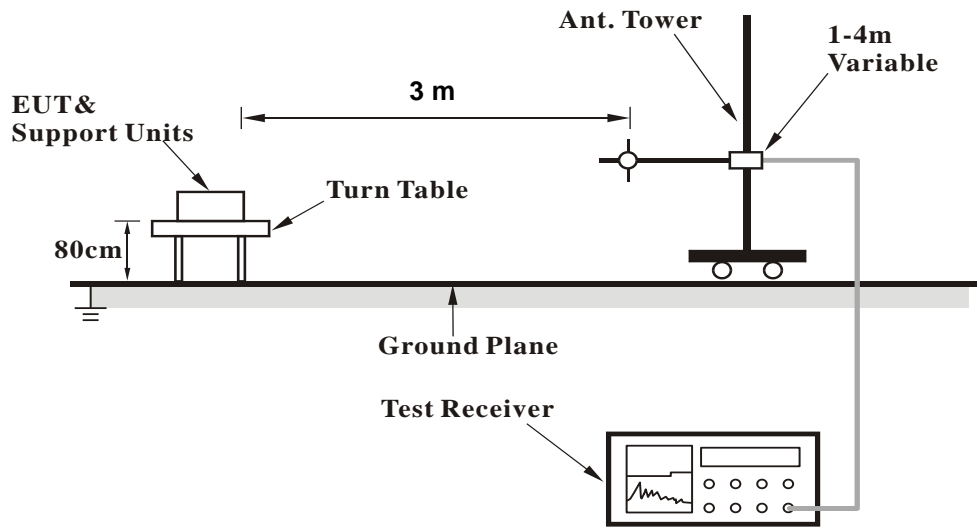
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

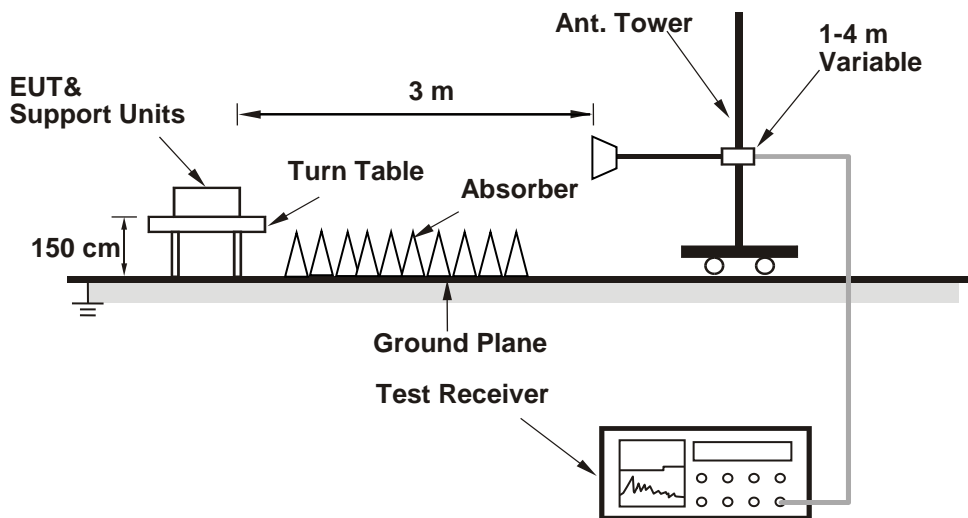
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

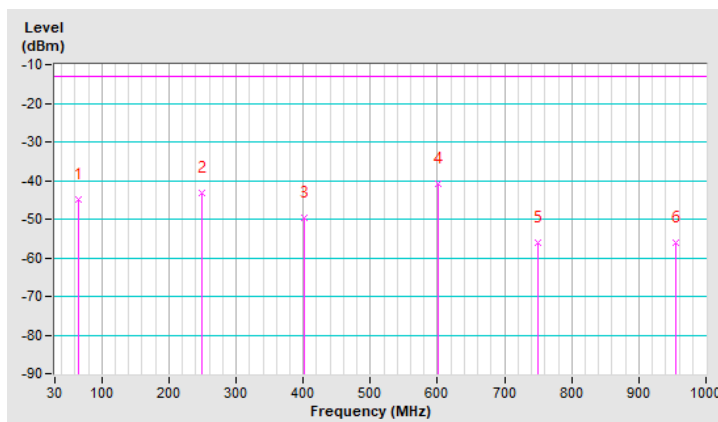
Below 1GHz

RF Mode	WCDMA Band V	Channel	CH 4182 : 836.4 MHz
Frequency Range	30 MHz ~ 1 GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.89	-44.98	-13.00	-31.98	1.00 H	313	66.19	-111.17
2	248.25	-43.07	-13.00	-30.07	1.50 H	214	68.01	-111.08
3	401.51	-49.61	-13.00	-36.61	2.00 H	30	57.30	-106.91
4	601.33	-40.93	-13.00	-27.93	1.00 H	2	61.83	-102.76
5	749.74	-56.27	-13.00	-43.27	1.50 H	352	43.13	-99.40
6	954.41	-56.21	-13.00	-43.21	1.50 H	13	41.55	-97.76

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The ERP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

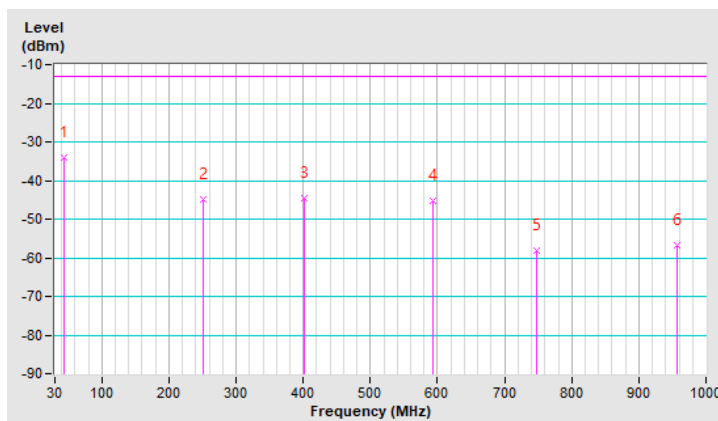


RF Mode	WCDMA Band V	Channel	CH 4182 : 836.4 MHz
Frequency Range	30 MHz ~ 1 GHz		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	44.55	-33.92	-13.00	-20.92	1.50 V	240	75.78	-109.70
2	251.16	-44.96	-13.00	-31.96	1.00 V	18	66.03	-110.99
3	401.51	-44.73	-13.00	-31.73	2.00 V	246	62.18	-106.91
4	592.60	-45.36	-13.00	-32.36	1.50 V	265	57.57	-102.93
5	747.80	-58.00	-13.00	-45.00	1.00 V	321	41.45	-99.45
6	956.35	-56.90	-13.00	-43.90	1.00 V	98	40.82	-97.72

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The ERP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



LTE Band 5, Channel Bandwidth 1.4MHz

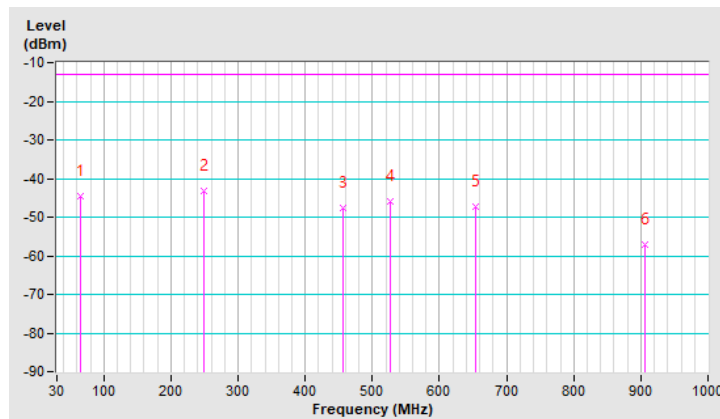
RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.89	-44.63	-13.00	-31.63	1.00 H	321	66.54	-111.17
2	248.25	-43.15	-13.00	-30.15	1.50 H	195	67.93	-111.08
3	455.83	-47.49	-13.00	-34.49	1.00 H	193	57.82	-105.31
4	527.61	-45.79	-13.00	-32.79	2.00 H	233	57.93	-103.72
5	654.68	-47.42	-13.00	-34.42	1.00 H	18	54.33	-101.75
6	905.91	-57.14	-13.00	-44.14	1.50 H	2	41.25	-98.39

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The ERP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



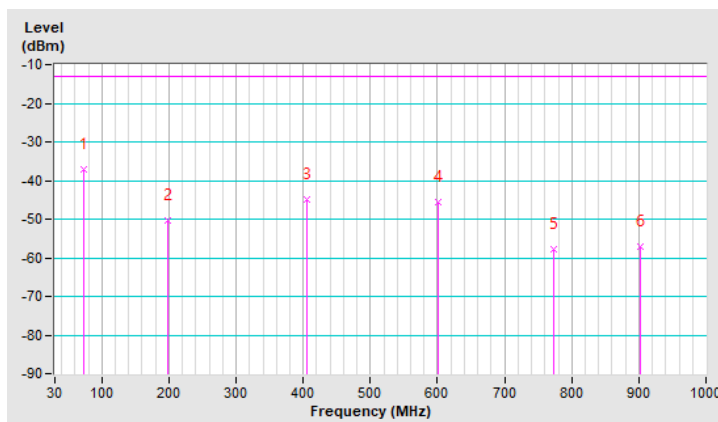
RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz		

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	73.65	-37.13	-13.00	-24.13	1.00 V	101	75.39	-112.52
2	198.78	-50.24	-13.00	-37.24	1.00 V	330	62.79	-113.03
3	405.39	-44.85	-13.00	-31.85	1.00 V	2	61.98	-106.83
4	600.36	-45.45	-13.00	-32.45	1.50 V	340	57.33	-102.78
5	773.99	-57.68	-13.00	-44.68	2.00 V	161	41.43	-99.11
6	903.00	-57.10	-13.00	-44.10	2.00 V	246	41.34	-98.44

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The ERP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



LTE Band 26, Channel Bandwidth 15MHz

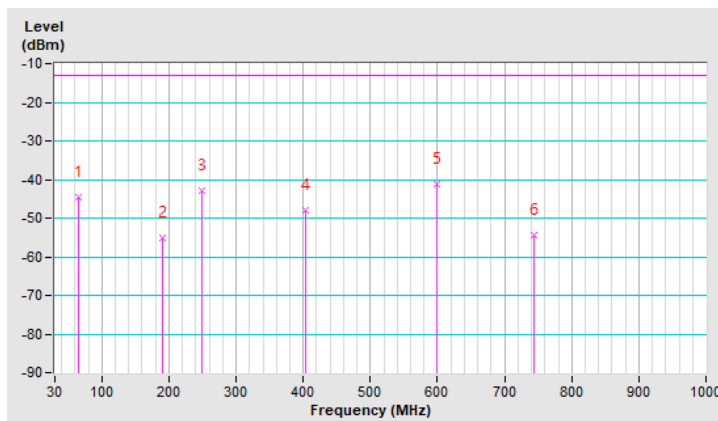
RF Mode	LTE Band 26 Channel Bandwidth: 15MHz	Channel	CH 26915 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.89	-44.73	-13.00	-31.73	1.50 H	319	66.44	-111.17
2	190.05	-55.02	-13.00	-42.02	1.50 H	237	57.48	-112.50
3	248.25	-42.97	-13.00	-29.97	1.00 H	208	68.11	-111.08
4	404.42	-47.85	-13.00	-34.85	2.00 H	45	59.01	-106.86
5	599.39	-41.31	-13.00	-28.31	2.00 H	12	61.49	-102.80
6	743.92	-54.42	-13.00	-41.42	1.00 H	180	45.16	-99.58

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The ERP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

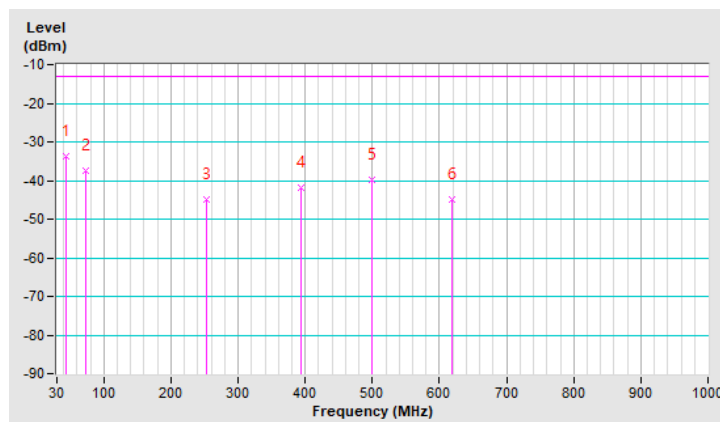


RF Mode	LTE Band 26 Channel Bandwidth: 15MHz	Channel	CH 26915 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	44.55	-33.77	-13.00	-20.77	1.00 V	255	75.93	-109.70
2	73.65	-37.50	-13.00	-24.50	2.00 V	84	75.02	-112.52
3	252.13	-44.86	-13.00	-31.86	1.00 V	18	66.09	-110.95
4	393.75	-41.96	-13.00	-28.96	1.50 V	251	65.07	-107.03
5	498.51	-39.68	-13.00	-26.68	1.00 V	18	64.67	-104.35
6	617.82	-44.89	-13.00	-31.89	2.00 V	341	57.38	-102.27

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The ERP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Above 1GHz

RF Mode	WCDMA Band V	Channel	CH 4182 : 836.4 MHz
Frequency Range	1 GHz ~ 18 GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1672.80	-48.27	-13.00	-35.27	1.05 H	334	69.72	-117.99
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1672.80	-52.14	-13.00	-39.14	1.23 V	232	65.85	-117.99

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-48.20	-13.00	-35.20	1.23 H	324	69.79	-117.99
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-52.05	-13.00	-39.05	1.05 V	243	65.94	-117.99

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 26 Channel Bandwidth: 15MHz	Channel	CH 26915 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-41.72	-13.00	-28.72	1.12 H	152	76.27	-117.99
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-39.43	-13.00	-26.43	2.87 V	182	78.56	-117.99

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

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