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FCC ID: KA2CHG601A1

Test Model: DCH-G601

Received Date: Mar. 12, 2018

Test Date: Mar. 20 to Apr. 25, 2018

Issued Date: May 03, 2018

Applicant: D-Link Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF180307E03A-3	Original release.	May 03, 2018

1 Certificate of Conformity

Product: LTE Bluetooth Hub

Brand: D-Link

Test Model: DCH-G601

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Mar. 20 to Apr. 25, 2018

Standards: FCC Part 22

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 EMC characteristics under the conditions specified in this report.

Prepared by : Wendy Wu , **Date:** May 03, 2018
Wendy Wu / Specialist

Approved by : May Chen , **Date:** May 03, 2018
May Chen / Manager

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.
---	Peak to Average Ratio	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -14.16dB at 1673MHz.

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	30MHz ~ 1GHz	5.33 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.10 dB
	6GHz ~ 18GHz	4.85 dB
	18GHz ~ 40GHz	5.24 dB

2.2 Test Site and Instruments

For WCDMA Band 5 radiated spurious emissions test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 08, 2017	July 07, 2018
Pre-Amplifier EMCI	EMC001340	980142	Feb. 09, 2018	Feb. 08, 2019
Loop Antenna ^(*) Electro-Metrics	EM-6879	264	Dec. 16, 2016	Dec. 15, 2018
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 15, 2018	Jan. 14, 2019
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Nov. 09, 2017	Nov. 08, 2018
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 29, 2017	Nov. 28, 2018
RF Cable	8D	966-4-1 966-4-2 966-4-3	Mar. 21, 2018	Mar. 20, 2019
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Oct. 03, 2017	Oct. 02, 2018
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier EMCI	EMC12630SE	980385	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160923 150318 150321	Jan. 29, 2018	Jan. 28, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 29, 2018	Jan. 28, 2019
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	EMC102-KM-KM-1200	160925	Jan. 29, 2018	Jan. 28, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA

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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4. The CANADA Site Registration No. is 20331-2
5. Loop antenna was used for all emissions below 30 MHz.
6. Tested Date: Apr. 25, 2018

For other radiated spurious emissions test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 08, 2017	July 07, 2018
Pre-Amplifier EMCI	EMC001340	980142	Feb. 09, 2018	Feb. 08, 2019
Loop Antenna ^(*) Electro-Metrics	EM-6879	264	Dec. 16, 2016	Dec. 15, 2018
RF Cable	5D-FB	LOOPCAB-001 LOOPCAB-002	Jan. 15, 2018	Jan. 14, 2019
Pre-Amplifier EMCI	EMC001340	980142	Feb. 09, 2018	Feb. 08, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 29, 2017	Nov. 28, 2018
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 01, 2017	Mar. 31, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Oct. 03, 2017	Oct. 02, 2018
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier EMCI	EMC12630SE	980385	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160923 150318 150321	Jan. 29, 2018	Jan. 28, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 29, 2018	Jan. 28, 2019
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	EMC102-KM-KM-1200	160925	Jan. 29, 2018	Jan. 28, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA

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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4. The CANADA Site Registration No. is 20331-2
5. Loop antenna was used for all emissions below 30 MHz.
6. Tested Date: Mar. 21, 2018

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	July 01, 2017	June 30, 2018
Spectrum Analyzer Agilent	E4446A	MY48250254	Nov. 21, 2017	Nov. 20, 2018
Power meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018
Power sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 10, 2018	Jan. 09, 2019
DC Power Supply Topward	6603D	795558	NA	NA
True RMS Clamp Meter FLUKE	325	31130711WS	May 29, 2017	May 28, 2018
ESG Vector signal generator Agilent	E4438C	MY45094468/005 506 602 UK6 UNJ	Nov. 26, 2017	Nov. 25, 2018
ESG Vector signal generator Agilent	E4438C	MY47271330 506 602 UNJ	Oct. 11, 2017	Oct. 10, 2018
Mech Switch Absorptive Mini-Circuits	MSP4TA-18+	0140	Feb. 12, 2018	Feb. 11, 2019
FXD ATTEN Mini-Circuits	BW-S3W2+	MN71981	Feb. 12, 2018	Feb. 11, 2019
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Mar. 27 to Apr. 25, 2018

3 General Information

3.1 General Description of EUT

Product	LTE Bluetooth Hub	
Brand	D-Link	
Test Model	DCH-G601	
Status of EUT	ENGINEERING SAMPLE	
Power Supply Rating	5Vdc from power adapter or 3.7Vdc from battery	
Modulation Type	WCDMA, HSDPA, HSUPA	BPSK
	LTE Band 5	QPSK, 16QAM
Operating Frequency	WCDMA, HSDPA, HSUPA	826.4MHz ~ 846.6MHz
	LTE Band 5	824.7MHz ~ 848.3MHz
Max. ERP Power	WCDMA Band 5	189.23mW (22.77dBm)
	LTE Band 5 (Channel Bandwidth 1.4MHz)	209.89mW (23.22dBm)
	LTE Band 5 (Channel Bandwidth 3MHz)	209.89mW (23.22dBm)
	LTE Band 5 (Channel Bandwidth 5MHz)	205.59mW (23.13dBm)
	LTE Band 5 (Channel Bandwidth 10MHz)	208.45mW (23.19dBm)
Emission Designator	WCDMA Band 5	4M08F9W
	LTE Band 5 (Channel Bandwidth 1.4MHz)	QPSK: 1M09G7D 16QAM: 1M09D7W
	LTE Band 5 (Channel Bandwidth 3MHz)	QPSK: 2M70G7D 16QAM: 2M70D7W
	LTE Band 5 (Channel Bandwidth 5MHz)	QPSK: 4M49G7D 16QAM: 4M49D7W
	LTE Band 5 (Channel Bandwidth 10MHz)	QPSK: 8M98G7D 16QAM: 8M98D7W
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	Adapter x 1	
Data Cable Supplied	NA	

Note:

1. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	3G/LTE
2	Bluetooth	3G/LTE

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. The EUT must be supplied with a power adapter or battery as following table:

Adapter		
Brand	Model No.	Spec.
Asian Power Device Inc	WB-10E05R	Input: 100-240Vac, 0.4A, 50/60Hz Output: 5Vdc, 2A DC output cable (Unshielded, 1.2m)
Battery		
Brand	Model No.	Spec.
GPI International Limited	NTA3555	3.7Vdc / 1490mAh

3. For the radiated emissions, the EUT was pre-tested under the following modes:

Test Mode	Description
Mode A	Power from adapter
Mode B	Power from battery

From the above modes, the worst case was found in **Mode A**. Therefore only the test data of the mode was recorded in this report.

4. The antennas provided to the EUT, please refer to the following table:

WLAN & Bluetooth

Ant No.	Model	Antenna Gain (dBi)	Frequency rang (GHz)	Antenna type	Connector type
1	290-20327	1.6	2.4~2.4835	PIFA	NA
2	C037-511302-A	4.55	2.4~2.4835	PIFA	NA

Note: Ant No. 2 was selected as representative antenna for the final test.

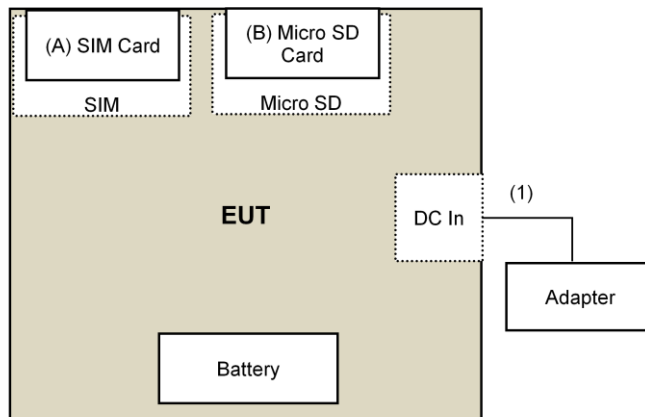
WWAN

Ant No.	Model	Antenna Gain (dBi)	Frequency rang	Antenna type	Connector type	*Cable Length (mm)
1 (Aux)	290-328	0.15	699~894MHz	PCB	i-pex(MHF)	88.7
		5.58	1.71~2.16GHz			
2 (Main)	290-329	0.39	699~894MHz	PCB	i-pex(MHF)	43.7
		4.38	1.71~2.16GHz			

Note: The WWAN mode will fix transmission on Antenna No.: 2.

5. 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



3.2.1 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	SIM Card	NA	NA	NA	NA	Provided by Lab
B.	MicroSD Card	Transcend	8GB	NA	NA	Provided by Lab
C.	Simulator	R&S	CMW500	151084	NA	Provided by Lab

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.2	No	0	Supplied by client

3.3 Test Mode Applicability and Tested Channel Detail

WCDMA Band 5

Test Item	Available Channel	Tested Channel	Mode
ERP	4132 to 4233	4132, 4182, 4233	WCDMA
Frequency Stability	4132 to 4233	4182	WCDMA
Occupied Bandwidth	4132 to 4233	4132, 4182, 4233	WCDMA
Band Edge	4132 to 4233	4132, 4233	WCDMA
Peak to Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA
Conducted Emission	4132 to 4233	4132, 4182, 4233	WCDMA
Radiated Emission Below 1GHz	4132 to 4233	4132, 4182, 4233	WCDMA
Radiated Emission Above 1GHz	4132 to 4233	4132, 4182, 4233	WCDMA

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25deg. C, 63%RH	120Vac, 60Hz	Allen Chung
Frequency Stability	23deg. C, 68%RH	120Vac, 60Hz	Allen Chung
Occupied Bandwidth	23deg. C, 68%RH	120Vac, 60Hz	Allen Chung
Band Edge	23deg. C, 68%RH	120Vac, 60Hz	Allen Chung
Peak to Average Ratio	23deg. C, 68%RH	120Vac, 60Hz	Allen Chung
Conducted Emission	23deg. C, 68%RH	120Vac, 60Hz	Allen Chung
Radiated Emission Below 1GHz	25deg. C, 66%RH	120Vac, 60Hz	Steven Chiang
Radiated Emission Above 1GHz	25deg. C, 66%RH	120Vac, 60Hz	Steven Chiang

LTE Band 5

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK/16QAM	1RB / 0 RB offset
	20145 to 20635	20145, 20525, 20635	3MHz	QPSK/16QAM	1RB / 0 RB offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK/16QAM	1RB / 0 RB offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK/16QAM	1RB / 0 RB offset
Frequency Stability	20407 to 20643	20525	1.4MHz	QPSK	-
	20145 to 20635	20525	3MHz	QPSK	-
	20425 to 20625	20525	5MHz	QPSK	-
	20450 to 20600	20525	10MHz	QPSK	-
Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK/16QAM	Full RB
	20145 to 20635	20145, 20525, 20635	3MHz	QPSK/16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK/16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK/16QAM	Full RB
Band Edge	20407 to 20643	20407	1.4MHz	QPSK	1 RB / 0 RB Offset
		20643			1 RB / 5 RB Offset
		20407, 20643			6 RB / 0 RB Offset
	20145 to 20635	20145	3MHz	QPSK	1 RB / 0 RB Offset
		20635			1 RB / 14 RB Offset
		20145, 20635			15 RB / 0 RB Offset
	20425 to 20625	20425	5MHz	QPSK	1 RB / 0 RB Offset
		20625			1 RB / 24 RB Offset
		20425, 20625			25 RB / 0 RB Offset
	20450 to 20600	20450	10MHz	QPSK	1 RB / 0 RB Offset
		20600			1 RB / 49 RB Offset
		20450, 20600			50 RB / 0 RB Offset
Peak to Average Ratio	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK/16QAM	Full RB
	20145 to 20635	20145, 20525, 20635	3MHz	QPSK/16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK/16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK/16QAM	Full RB
Conducuted Emission	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK	1RB / 0 RB offset
	20145 to 20635	20145, 20525, 20635	3MHz	QPSK	1RB / 0 RB offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1RB / 0 RB offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1RB / 0 RB offset
Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK	1RB / 0 RB offset
	20145 to 20635	20145, 20525, 20635	3MHz	QPSK	1RB / 0 RB offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1RB / 0 RB offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1RB / 0 RB offset

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25deg. C, 63%RH	120Vac, 60Hz	Allen Chuang
Frequency Stability	25deg. C, 63%RH	120Vac, 60Hz	Allen Chuang
Occupied Bandwidth	25deg. C, 63%RH	120Vac, 60Hz	Allen Chuang
Band Edge	25deg. C, 63%RH	120Vac, 60Hz	Allen Chuang
Peak to Average Ratio	25deg. C, 63%RH	120Vac, 60Hz	Allen Chuang
Conducted Emission	25deg. C, 63%RH	120Vac, 60Hz	Allen Chuang
Radiated Emission Below 1GHz	25deg. C, 66%RH	120Vac, 60Hz	Eason Tseng
Radiated Emission Above 1GHz	25deg. C, 70%RH	120Vac, 60Hz	Eason Tseng

3.4 EUT Operating Conditions

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

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 22

KDB 971168 D01 Power Meas License Digital Systems v03

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

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

4.1.2 Test Procedures

The EUT was set up for the maximum power with 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.

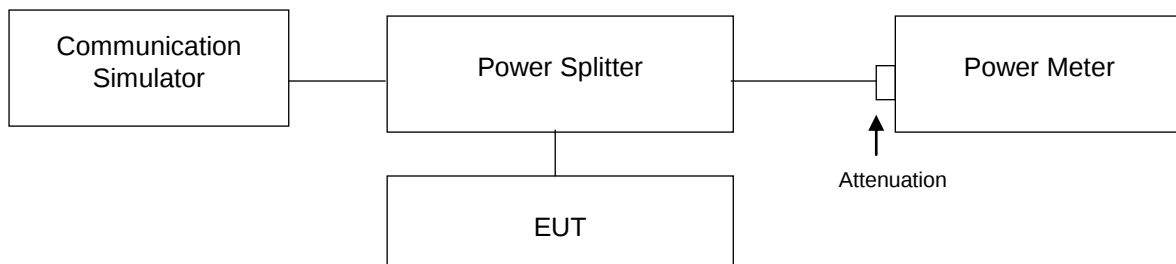
Conducted Power Measurement:

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

EIRP / ERP Measurement:

1. EIRP = Conducted output power level + Antenna gain
2. ERP power = EIRP power - 2.15dBi.

4.1.3 Test Setup



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

4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

WCDMA Band 5

Band	WCDMA B5		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC	24.42	24.53	24.38
HSDPA Subtest-1	23.89	24.22	23.86
HSDPA Subtest-2	23.66	24.16	23.74
HSDPA Subtest-3	24.02	23.91	23.68
HSDPA Subtest-4	23.81	24.28	24.06
HSUPA Subtest-1	23.87	23.91	23.75
HSUPA Subtest-2	23.58	24.29	24.01
HSUPA Subtest-3	23.67	23.93	23.70
HSUPA Subtest-4	23.90	24.32	23.95
HSUPA Subtest-5	24.02	24.15	23.80

LTE Band 5

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20407	20525	20643		20407	20525	20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	24.98	24.67	24.62	0	24.33	23.69	23.96	1
	1	2	24.91	24.55	24.53	0	23.85	23.95	23.73	1
	1	5	24.95	24.53	24.53	0	24.30	23.70	23.76	1
	3	0	24.90	24.52	24.34	0	24.02	23.65	23.56	1
	3	1	24.94	24.49	24.57	0	23.89	23.62	23.61	1
	3	3	24.92	24.43	24.54	0	24.05	23.60	23.64	1
	6	0	23.92	23.60	23.55	1	22.94	22.75	22.56	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20415	20525	20635		20415	20525	20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	24.98	24.50	24.50	0	24.38	23.86	23.65	1
	1	7	24.90	24.44	24.40	0	24.26	23.63	23.59	1
	1	14	24.78	24.60	24.46	0	23.94	23.75	23.60	1
	8	0	23.83	23.57	23.49	1	23.06	22.56	22.52	2
	8	3	23.93	23.60	23.52	1	23.05	22.55	22.50	2
	8	7	23.89	23.61	23.48	1	23.00	22.49	22.54	2
	15	0	24.00	23.41	23.48	1	22.99	22.68	22.54	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20425	20525	20625		20425	20525	20625	
			826.5	836.5	846.5		826.5	836.5	846.5	
			MHz	MHz	MHz		MHz	MHz	MHz	
5 / 5M	1	0	24.89	24.57	24.43	0	24.32	23.84	23.96	1
	1	12	24.78	24.50	24.38	0	24.16	23.72	23.74	1
	1	24	24.75	24.48	24.40	0	24.03	23.81	23.60	1
	12	0	23.96	23.58	23.56	1	23.01	22.66	22.66	2
	12	6	23.86	23.54	23.49	1	22.96	22.52	22.47	2
	12	13	23.76	23.50	23.53	1	22.91	22.62	22.52	2
	25	0	23.83	23.59	23.45	1	22.96	22.57	22.54	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20450	20525	20600		20450	20525	20600	
			829	836.5	844		829	836.5	844	
			MHz	MHz	MHz		MHz	MHz	MHz	
5 / 10M	1	0	24.95	24.73	24.62	0	24.21	24.05	23.80	1
	1	24	24.70	24.43	24.37	0	24.12	23.71	23.74	1
	1	49	24.56	24.44	24.41	0	23.84	24.03	23.36	1
	25	0	23.75	23.54	23.49	1	22.77	22.79	22.62	2
	25	12	23.71	23.48	23.47	1	22.83	22.58	22.64	2
	25	25	23.60	23.48	23.49	1	22.70	22.45	22.49	2
	50	0	23.64	23.55	23.51	1	22.71	22.73	22.65	2

ERP POWER

WCDMA B5

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
4132	826.4	24.42	0.39	22.66	184.50	Pass	Max
4182	836.4	24.53	0.39	22.77	189.23	Pass	Max
4233	846.6	24.38	0.39	22.62	182.81	Pass	Max

LTE Band 5

QPSK

1.4M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20407	824.7	24.98	0.39	23.22	209.89	Pass	Max
20525	836.5	24.67	0.39	22.91	195.43	Pass	Max
20643	848.3	24.62	0.39	22.86	193.20	Pass	Max

3M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20415	825.5	24.98	0.39	23.22	209.89	Pass	Max
20525	836.5	24.50	0.39	22.74	187.93	Pass	Max
20635	847.5	24.50	0.39	22.74	187.93	Pass	Max

5M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20425	826.5	24.89	0.39	23.13	205.59	Pass	Max
20525	836.5	24.57	0.39	22.81	190.99	Pass	Max
20625	846.5	24.43	0.39	22.67	184.93	Pass	Max

10M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20450	829	24.95	0.39	23.19	208.45	Pass	Max
20525	836.5	24.73	0.39	22.97	198.15	Pass	Max
20600	844	24.62	0.39	22.86	193.20	Pass	Max

16QAM

1.4M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20407	824.7	24.33	0.39	22.57	180.72	Pass	Max
20525	836.5	23.69	0.39	21.93	155.96	Pass	Max
20643	848.3	23.96	0.39	22.20	165.96	Pass	Max

3M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20415	825.5	24.34	0.39	22.58	181.05	Pass	Max
20525	836.5	23.86	0.39	22.10	162.18	Pass	Max
20635	847.5	23.65	0.39	21.89	154.53	Pass	Max

5M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20425	826.5	24.32	0.39	22.56	180.30	Pass	Max
20525	836.5	23.84	0.39	22.08	161.44	Pass	Max
20625	846.5	23.96	0.39	22.20	165.96	Pass	Max

10M

Channel Number	Freq. (MHz)	Conducted Average Power (dBm)	Gain	ERP(dBm)	ERP(mW)	Pass /Fail	Setting
20450	829	24.21	0.39	22.45	175.79	Pass	Max
20525	836.5	24.05	0.39	22.29	169.43	Pass	Max
20600	844	23.80	0.39	22.04	159.96	Pass	Max

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

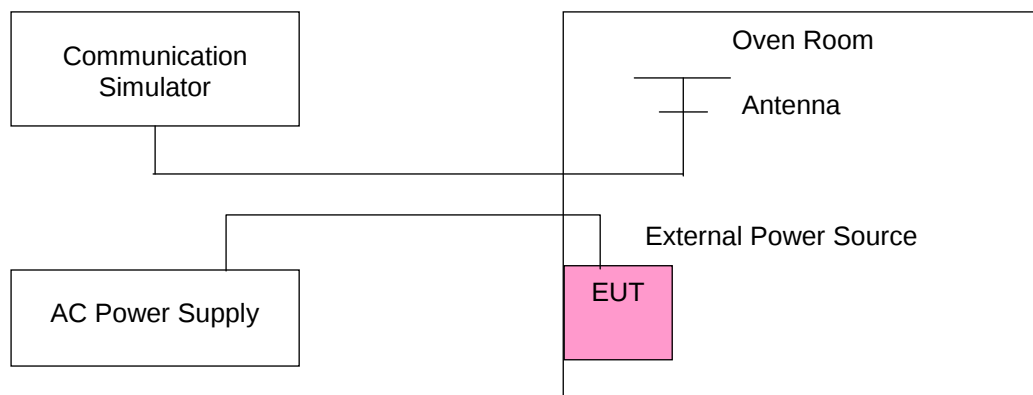
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 Test Procedure

- 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.
- EUT is connected the external power supply to control the AC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ 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

WCDMA

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (ppm)	Limit (ppm)
	WCDMA	
102	0.049	2.5
138	0.048	2.5

Frequency Error vs. Temperature.

TEMP. (°C)	Frequency Error (ppm)	Limit (ppm)
	WCDMA	
75	0.035	2.5
70	0.032	2.5
60	0.037	2.5
50	0.036	2.5
40	0.041	2.5
30	0.043	2.5
20	0.025	2.5
10	0.036	2.5
0	0.030	2.5
-10	0.025	2.5
-20	0.032	2.5
-30	0.045	2.5

LTE

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (ppm)				Limit (ppm)
	LTE Band 5				
	1.4MHz	3MHz	5MHz	10MHz	
102	0.036	0.033	0.044	0.030	2.5
138	0.038	0.029	0.037	0.047	2.5

Frequency Error vs. Temperature

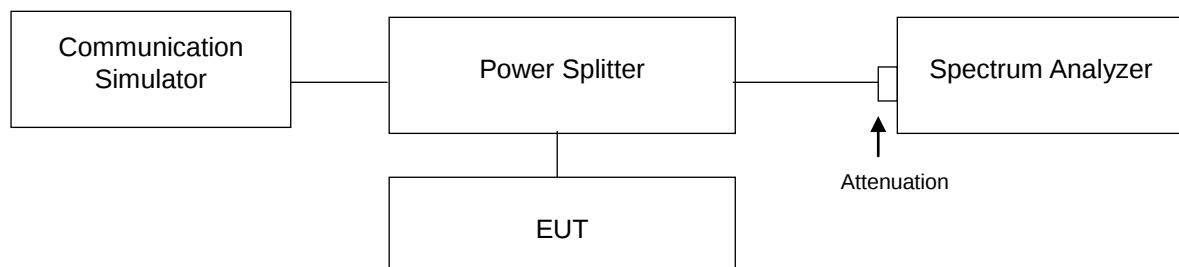
Temp. (°C)	Frequency Error (ppm)				Limit (ppm)
	LTE Band 5				
	1.4MHz	3MHz	5MHz	10MHz	
75	0.000	0.033	0.033	0.045	2.5
70	0.029	0.059	0.033	0.036	2.5
60	0.049	0.037	0.045	0.024	2.5
50	0.044	0.044	0.026	0.043	2.5
40	0.055	0.045	0.038	0.024	2.5
30	0.050	0.027	0.049	0.033	2.5
20	0.042	0.039	0.038	0.035	2.5
10	0.043	0.032	0.027	0.035	2.5
0	0.027	0.036	0.033	0.044	2.5
-10	0.033	0.029	0.050	0.050	2.5
-20	0.051	0.049	0.043	0.056	2.5
-30	0.032	0.025	0.035	0.031	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

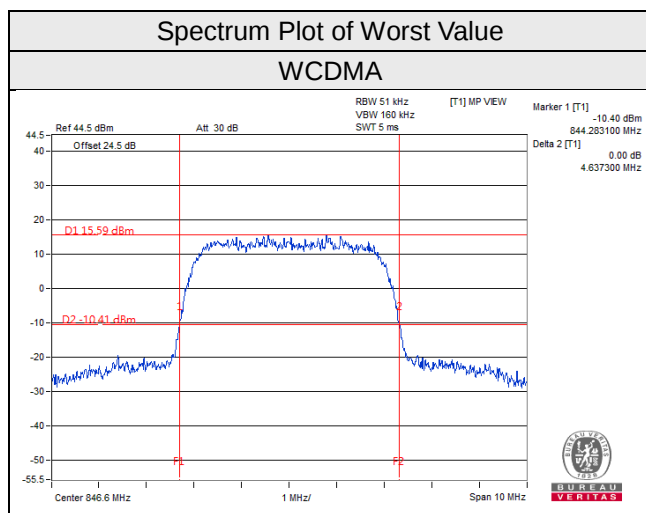
All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.2 Test Setup

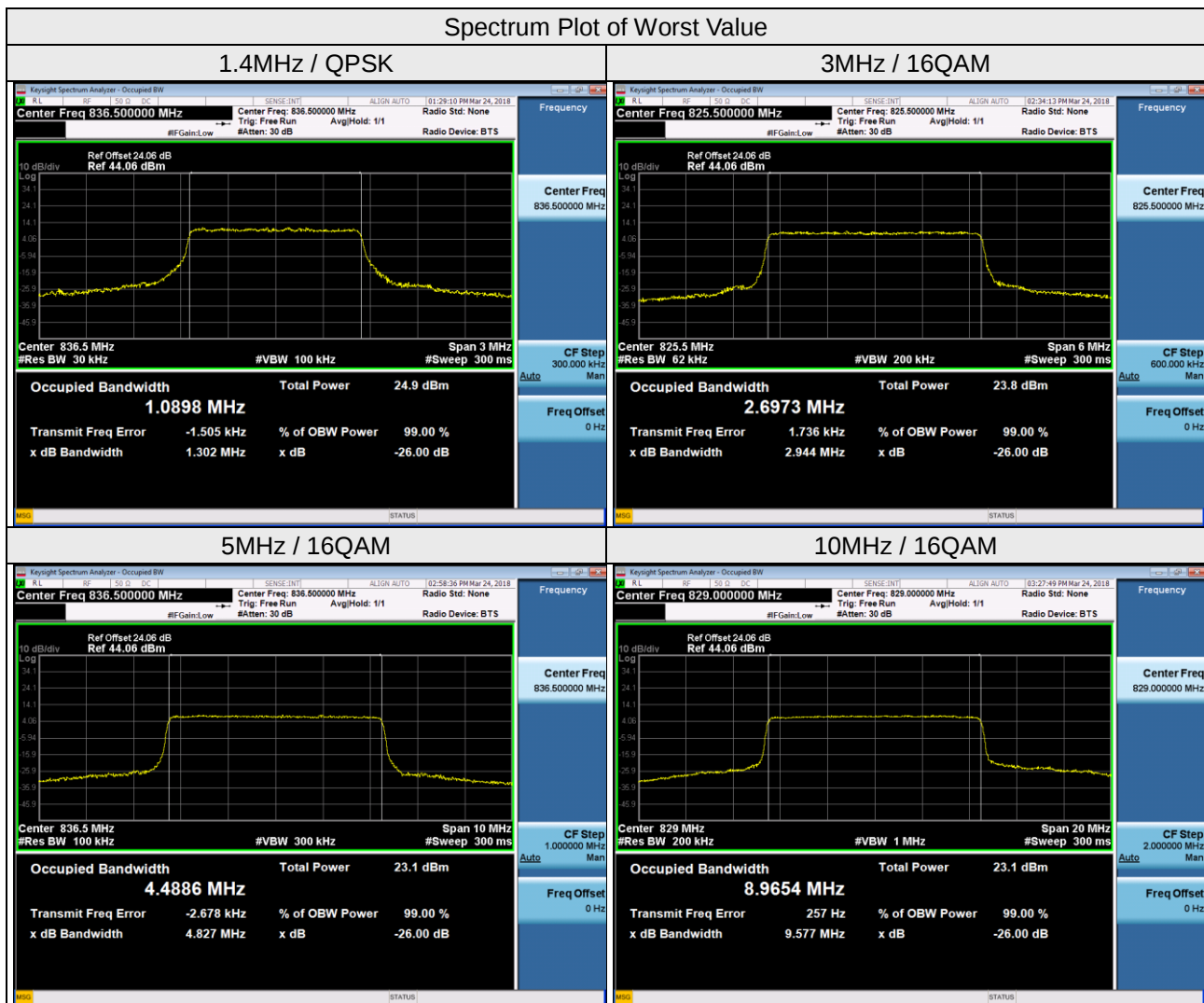


4.3.3 Test Result (-26dB Bandwidth)

Channel	FREQ. (MHz)	-26dB Bandwidth (MHz)
		WCDMA
4132	826.4	4.62
4182	836.4	4.62
4233	846.6	4.64

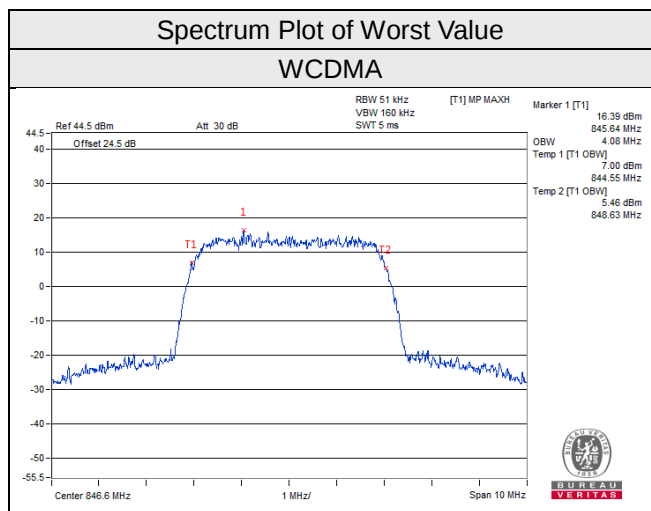


LTE Band 5							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	-26dB Bandwidth (MHz)		Channel	Frequency (MHz)	-26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.29	1.29	20415	825.5	2.92	2.94
20525	836.5	1.30	1.28	20525	836.5	2.92	2.94
20643	848.3	1.28	1.29	20635	847.5	2.93	2.92
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	-26dB Bandwidth (MHz)		Channel	Frequency (MHz)	-26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.82	4.81	20450	829	9.54	9.58
20525	836.5	4.82	4.83	20525	836.5	9.57	9.56
20625	846.5	4.77	4.80	20600	844	9.53	9.55

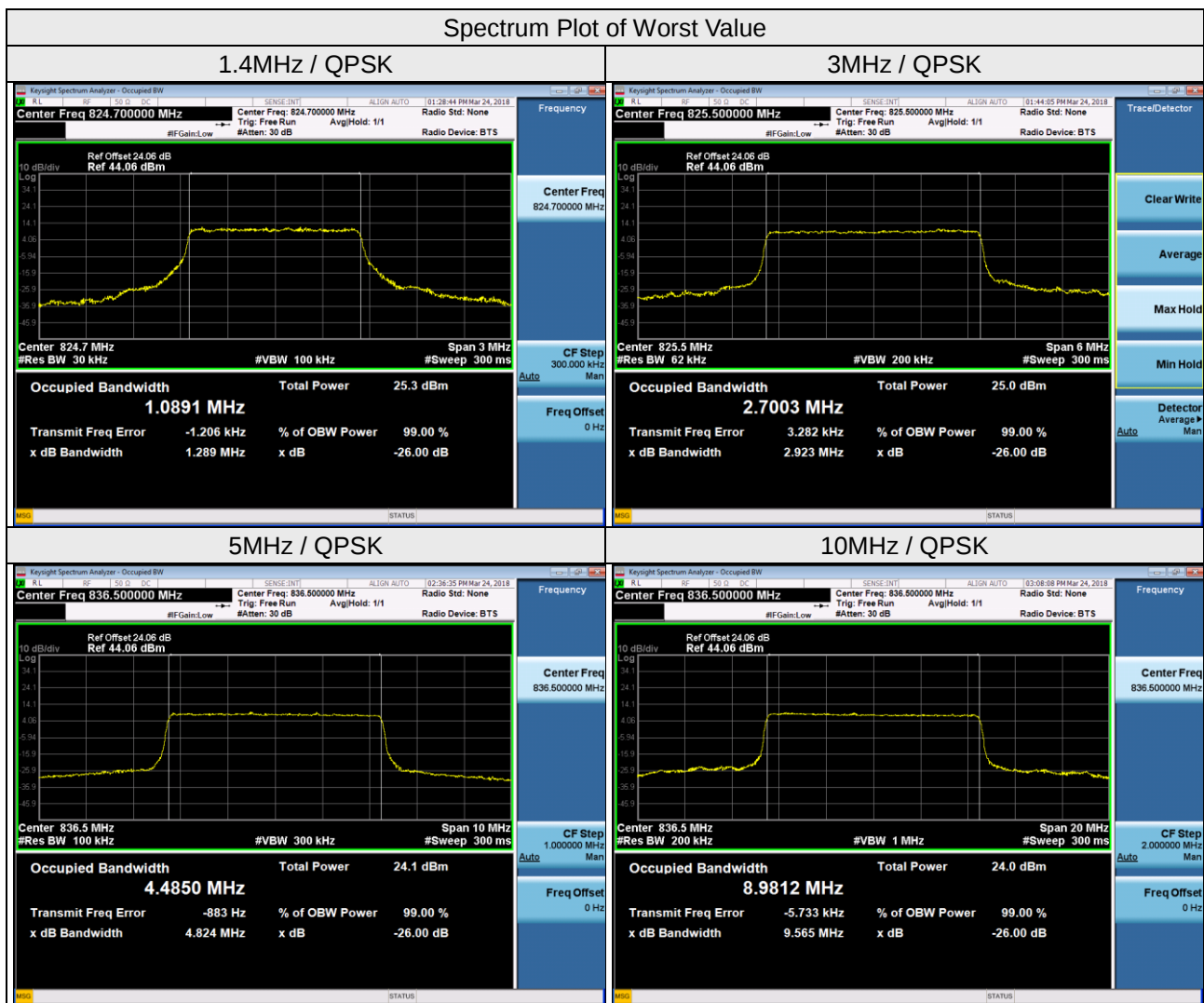


4.3.4 Test Result (Occupied Bandwidth)

Channel	FREQ. (MHz)	99% Occupied Bandwidth (MHz)
		WCDMA
4132	826.4	4.07
4182	836.4	4.08
4233	846.6	4.08



LTE Band 5							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.09	1.09	20415	825.5	2.70	2.70
20525	836.5	1.09	1.09	20525	836.5	2.70	2.70
20643	848.3	1.09	1.09	20635	847.5	2.70	2.70
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.48	4.49	20450	829	8.96	8.97
20525	836.5	4.49	4.49	20525	836.5	8.98	8.98
20625	846.5	4.48	4.48	20600	844	8.95	8.96

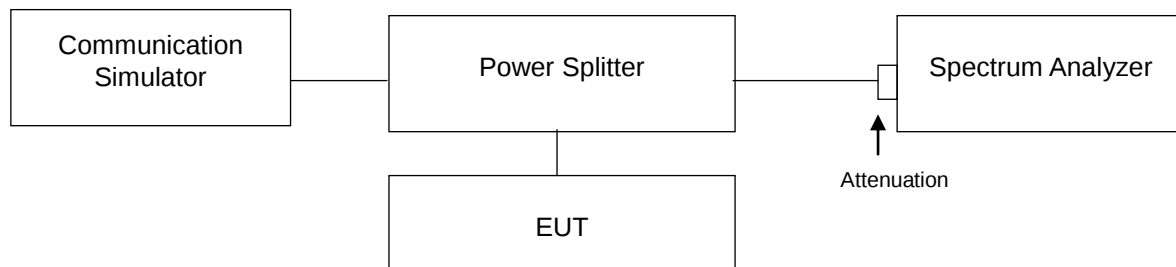


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

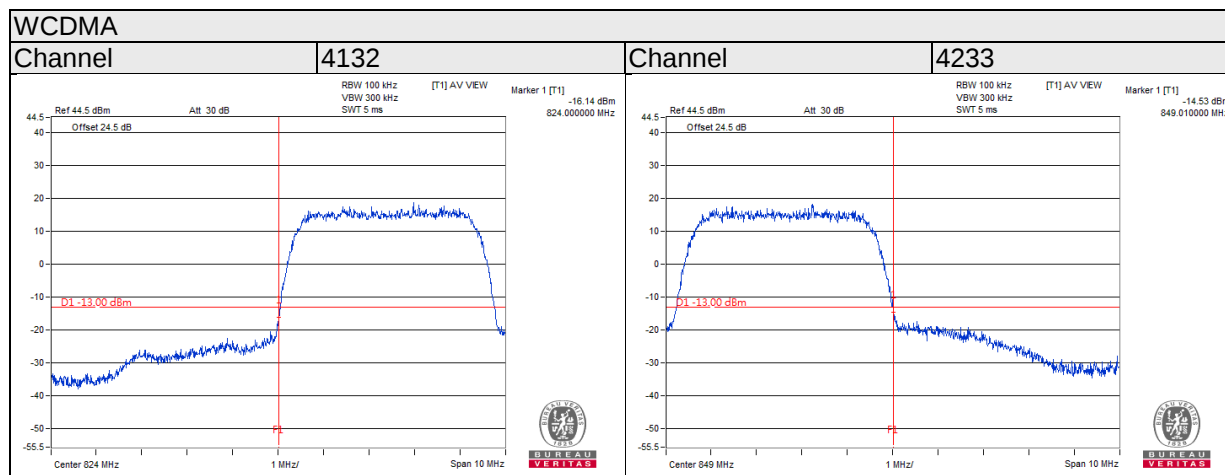
4.4.2 Test Setup



4.4.3 Test Procedures

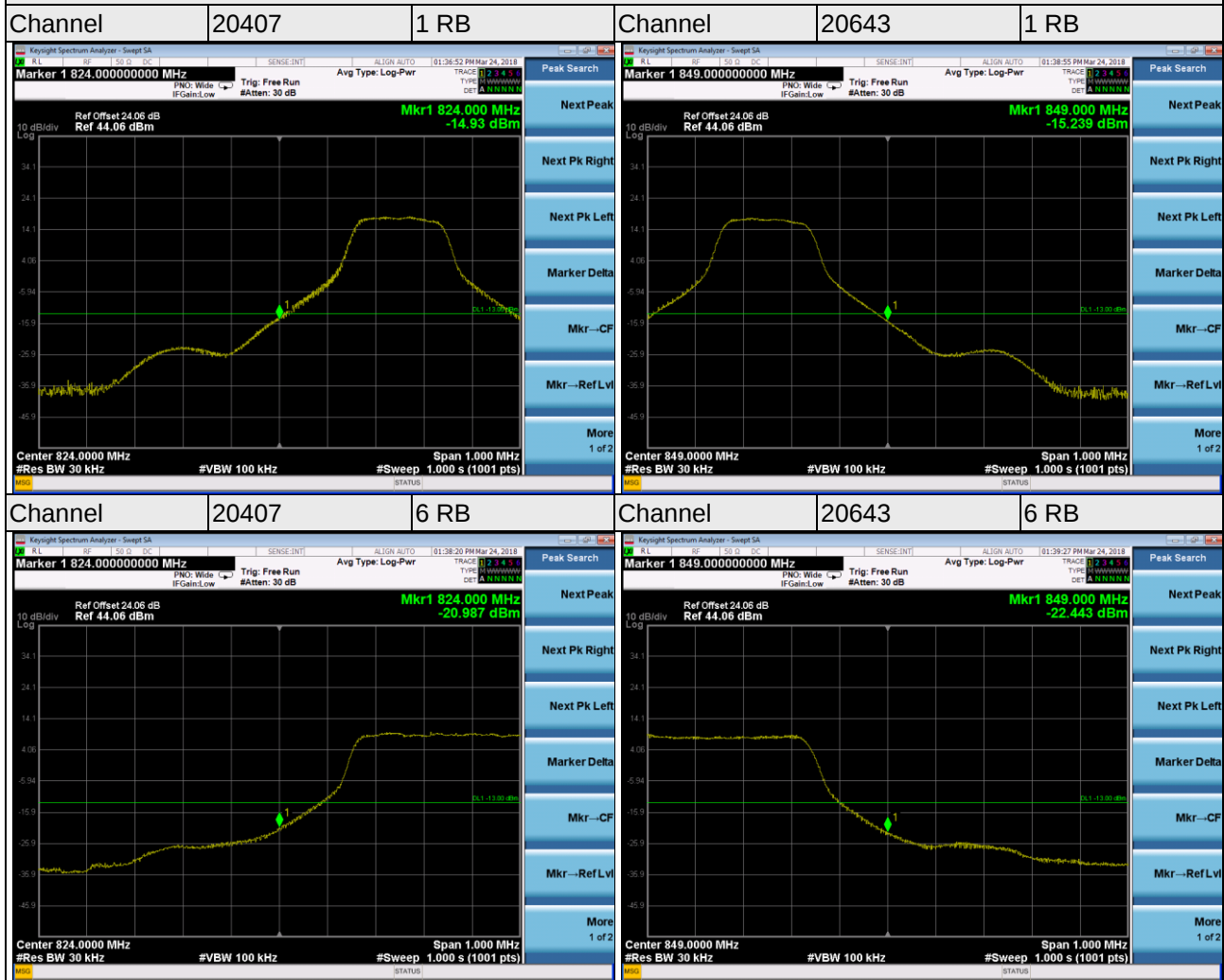
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and s RB of the spectrum is $>1\%$ EMISSION BANDWIDTH and VB of the spectrum is $\geq 3 \times RB$.
- Record the max trace plot into the test report.

4.4.4 Test Results



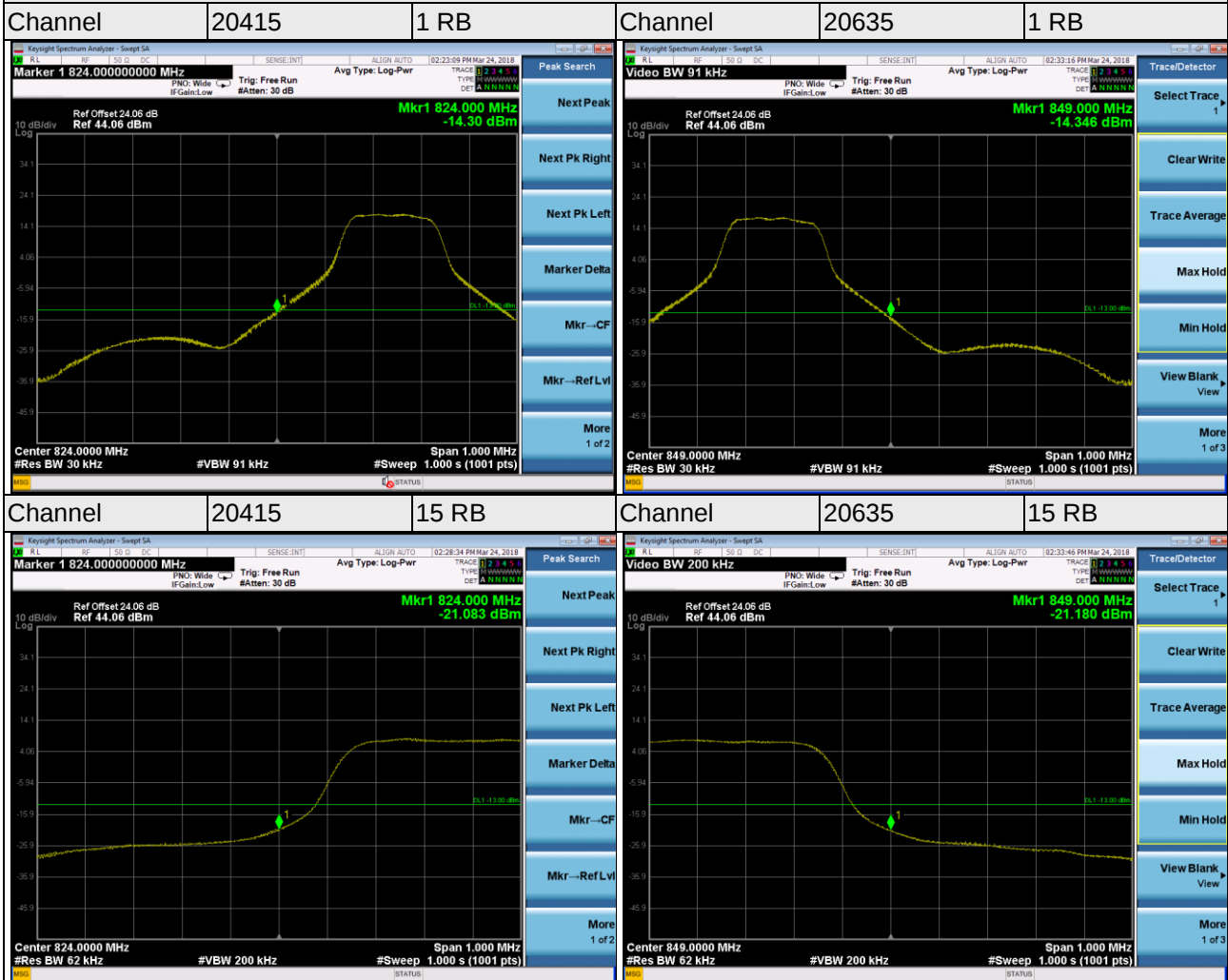
LTE Band 5

Channel Bandwidth 1.4MHz



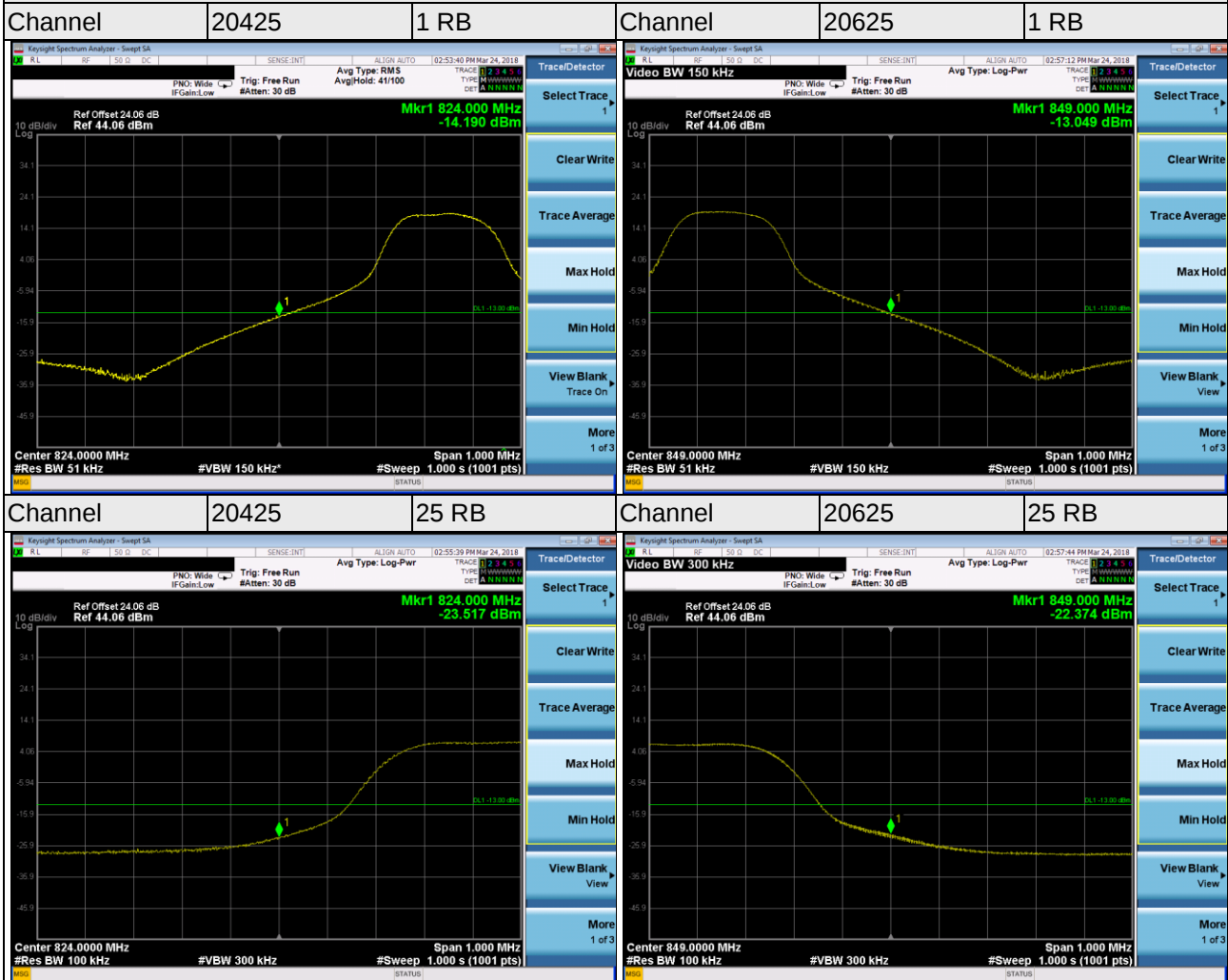
LTE Band 5

Channel Bandwidth 3MHz



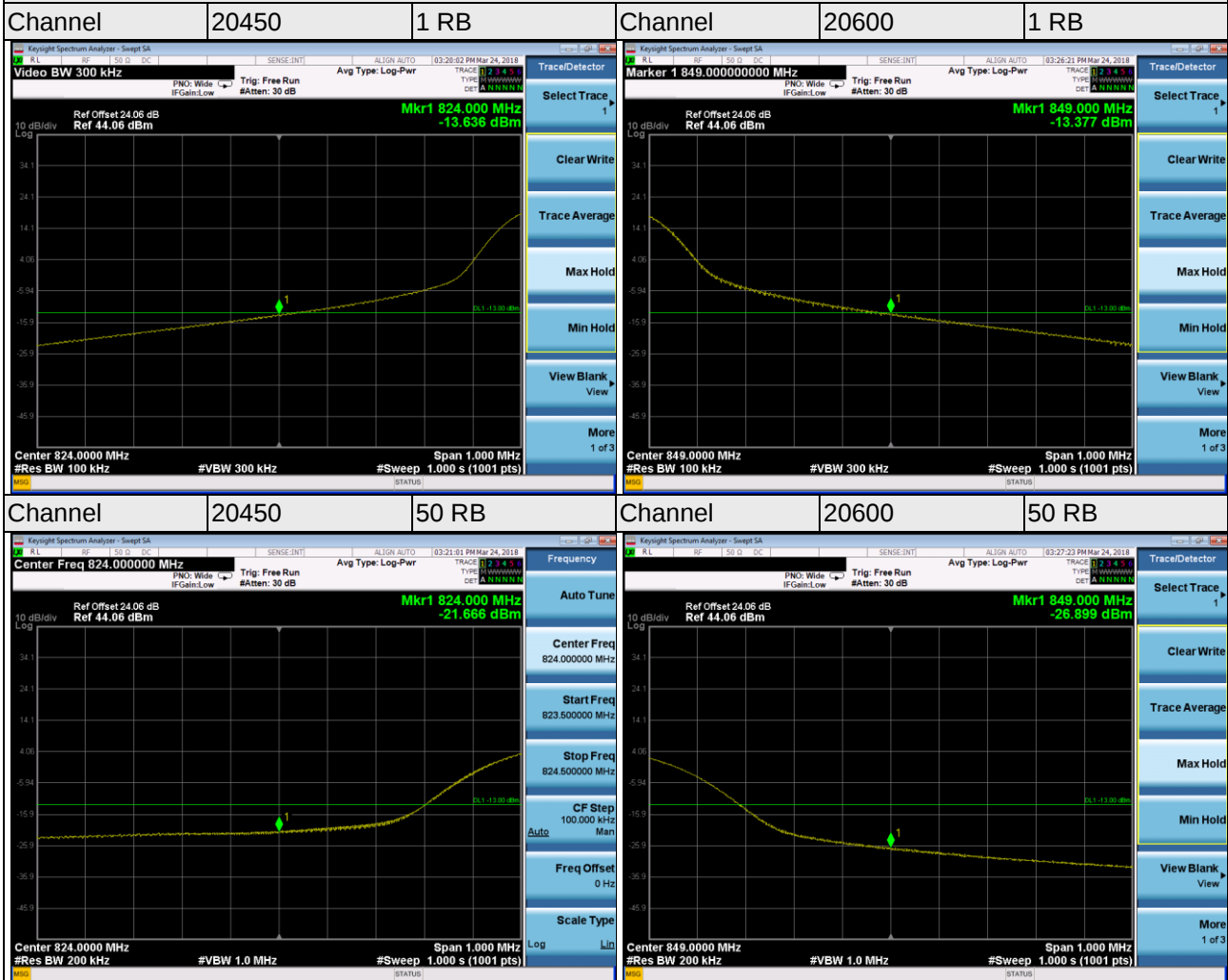
LTE Band 5

Channel Bandwidth 5MHz



LTE Band 5

Channel Bandwidth 10MHz

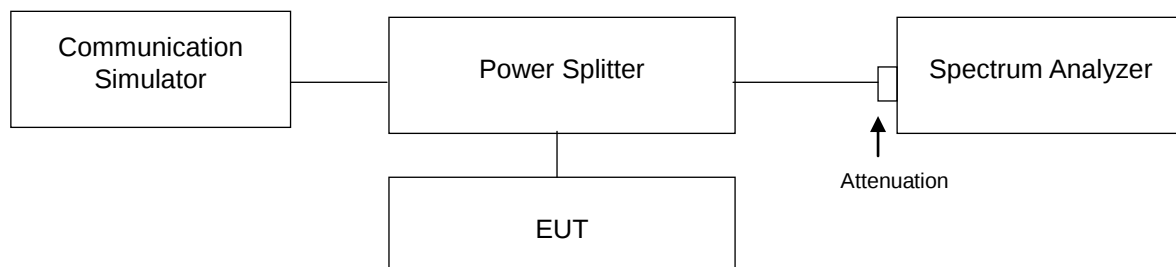


4.5 Peak to Average Ratio

4.5.1 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.

4.5.2 Test Setup

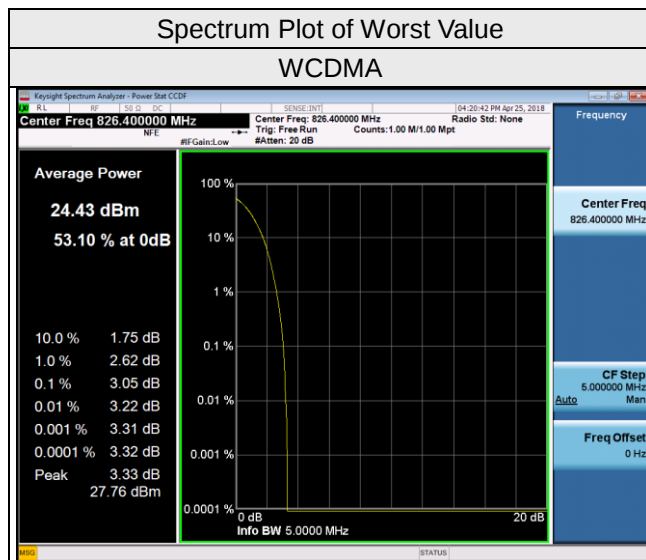


4.5.3 Test Procedures

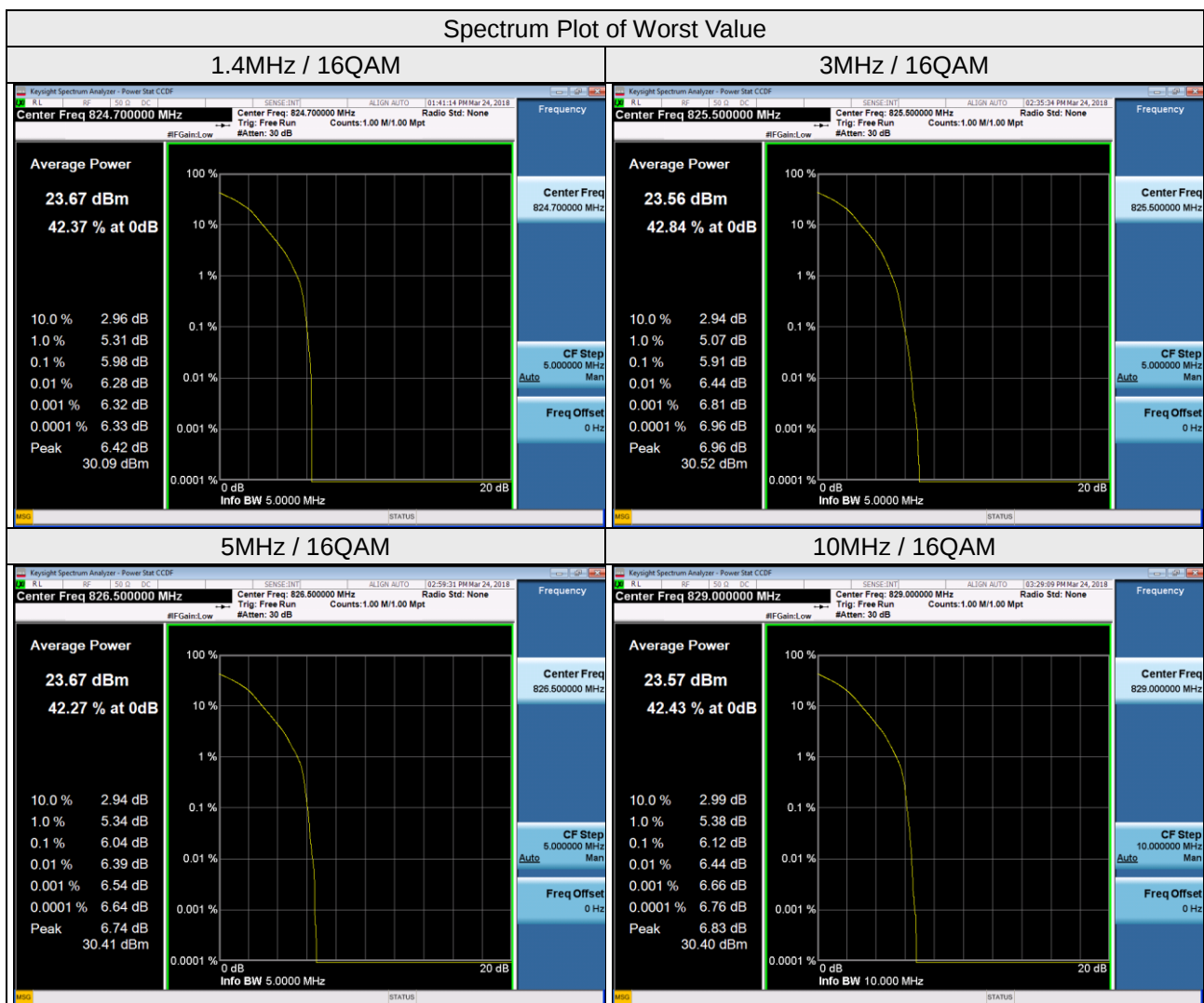
1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.5.4 Test Results

Channel	Freq. (MHz)	Peak to Average Ratio (dB)
		WCDMA
4132	826.4	3.05
4183	836.6	2.43
4233	846.6	2.65



LTE Band 5							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	5.19	5.98	20415	825.5	5.25	5.91
20525	836.5	3.54	4.33	20525	836.5	4.84	4.30
20643	848.3	4.68	5.46	20635	847.5	4.64	5.49
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
20425	826.5	5.20	6.04	20450	829	5.16	6.12
20525	836.5	3.32	4.10	20525	836.5	3.18	4.11
20625	846.5	5.22	6.03	20600	844	4.66	5.51

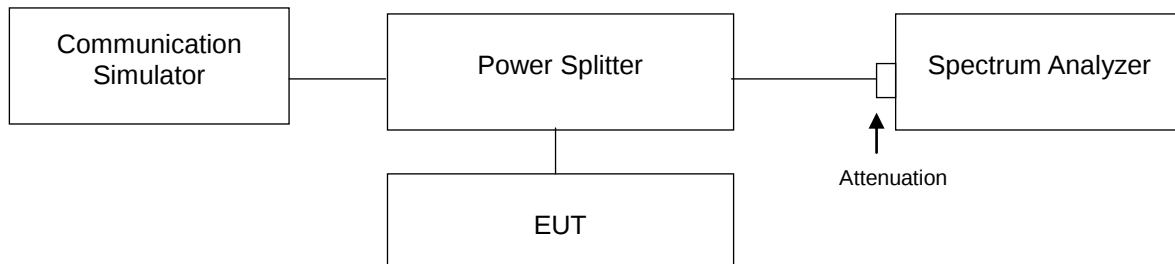


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions 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 equal to -13dBm .

4.6.2 Test Setup



4.6.3 Test Procedure

- All measurements were done at middle operational frequency range.
- Measuring frequency range is from 9 kHz to 10GHz. RBW:1 MHz and VBW=1 MHz is used for measurement.

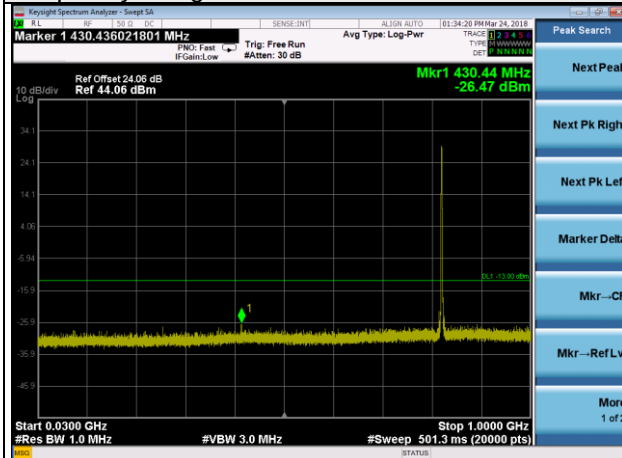
4.6.4 Test Results



LTE Band 5 Channel Band width: 1.4MHz

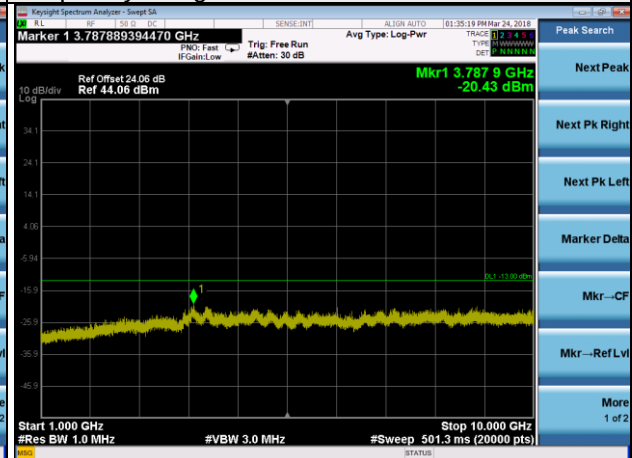
Channel 20407

Frequency Range : 30MHz~1GHz



Channel 20407

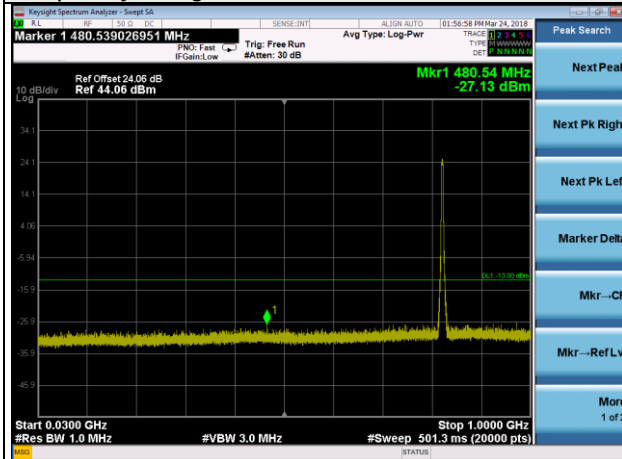
Frequency Range : 1GHz~10GHz



LTE Band 5 Channel Band width: 3MHz

Channel 20415

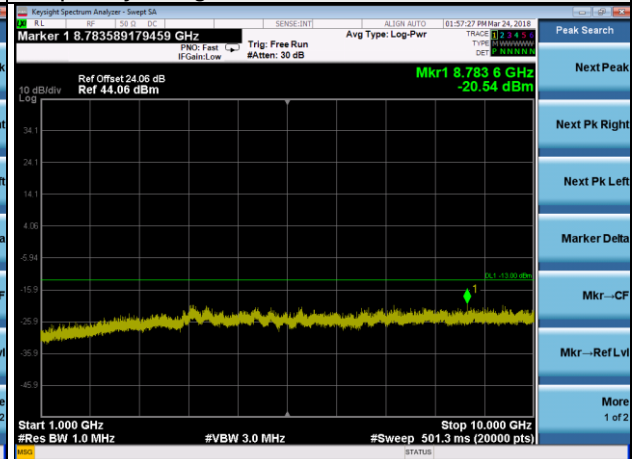
Frequency Range : 30MHz~1GHz

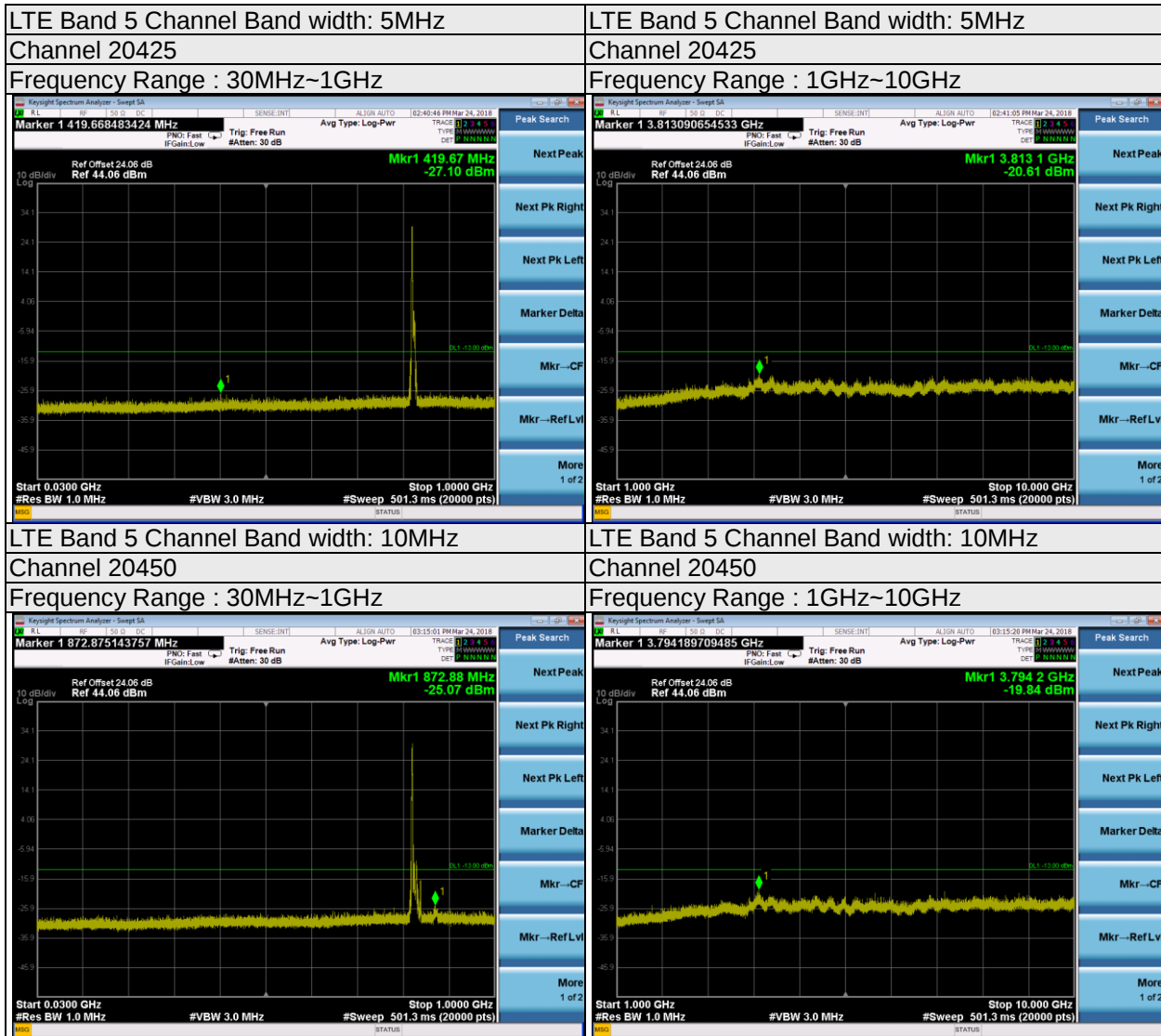


LTE Band 5 Channel Band width: 3MHz

Channel 20415

Frequency Range : 1GHz~10GHz

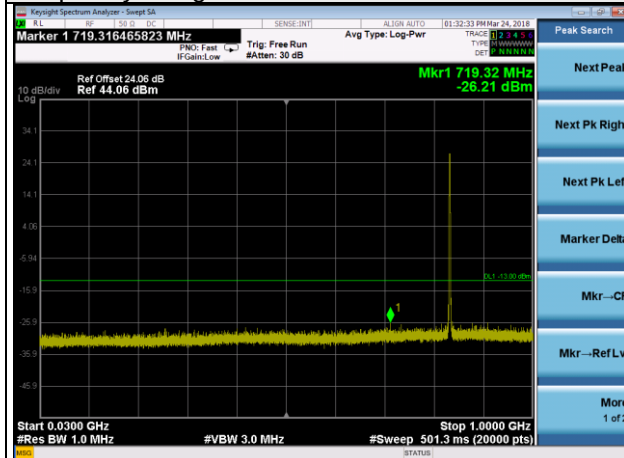




LTE Band 5 Channel Band width: 1.4MHz

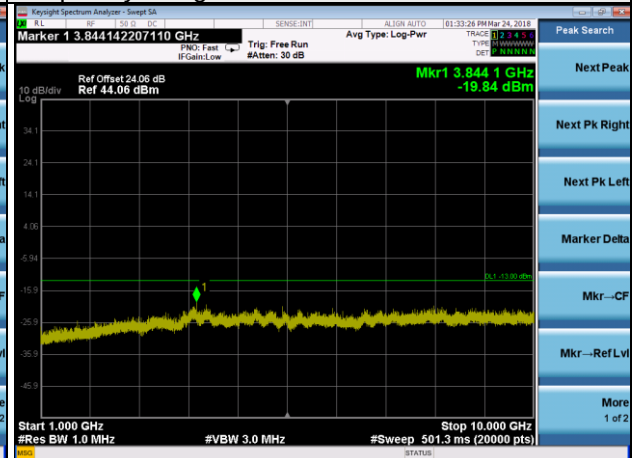
Channel 20525

Frequency Range : 30MHz~1GHz



Channel 20525

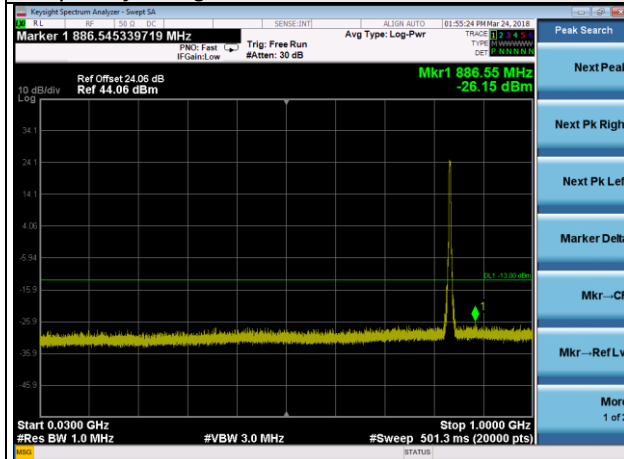
Frequency Range : 1GHz~10GHz



LTE Band 5 Channel Band width: 3MHz

Channel 20525

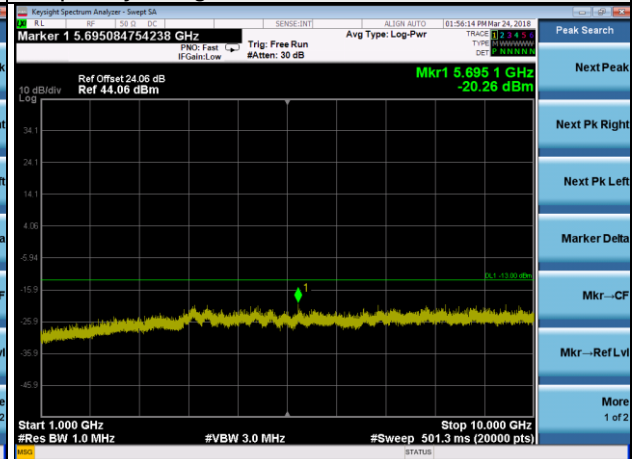
Frequency Range : 30MHz~1GHz

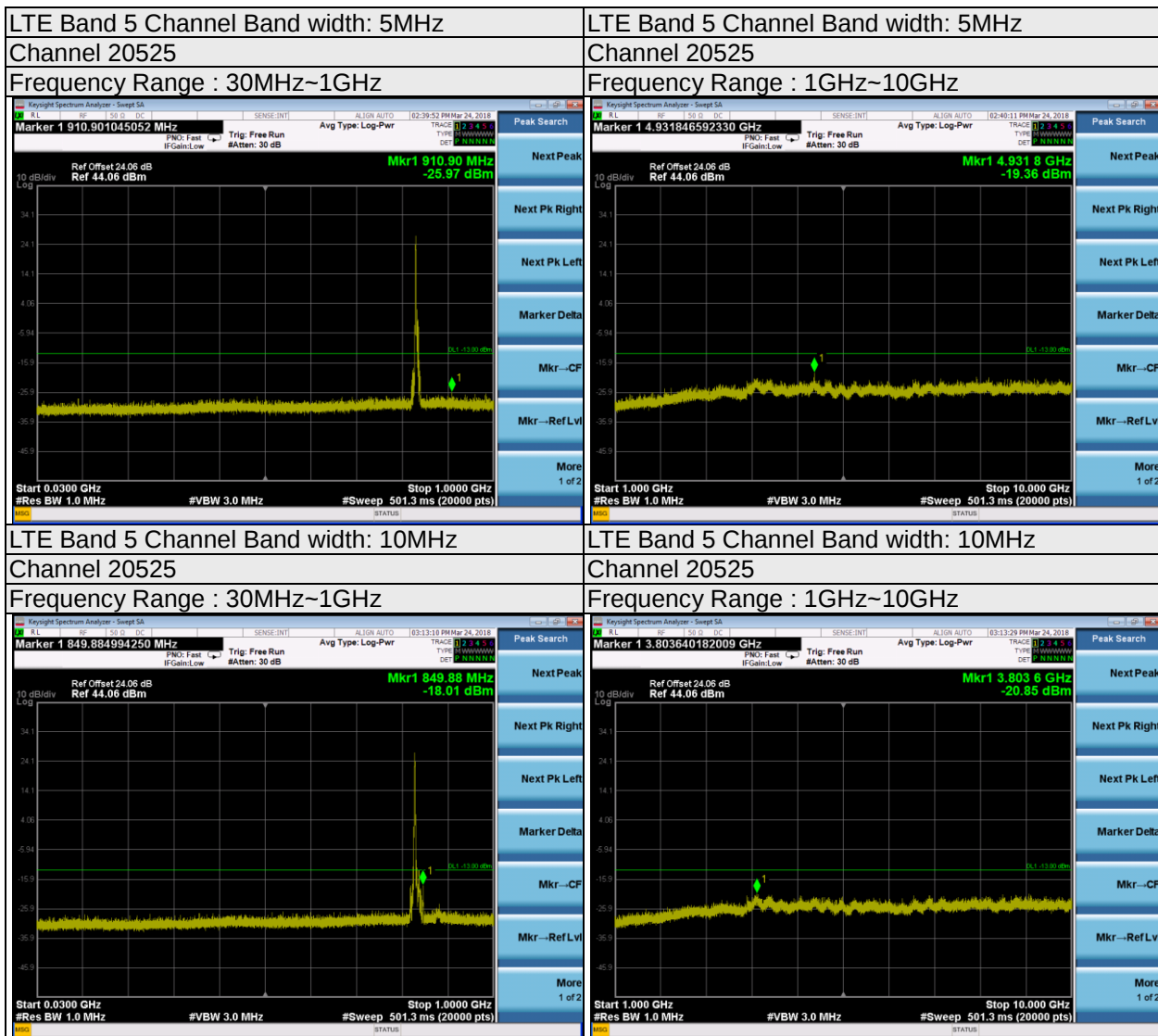


LTE Band 5 Channel Band width: 3MHz

Channel 20525

Frequency Range : 1GHz~10GHz

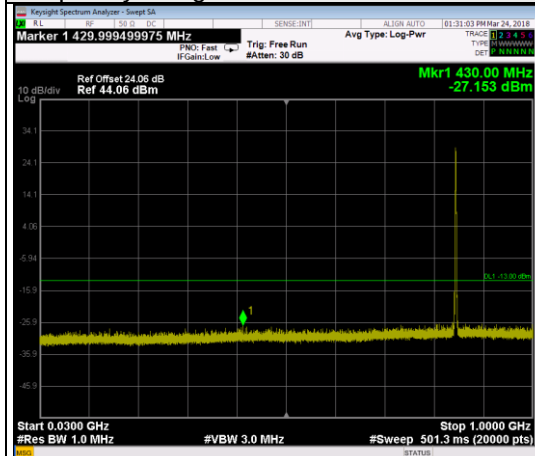




LTE Band 5 Channel Band width: 1.4MHz

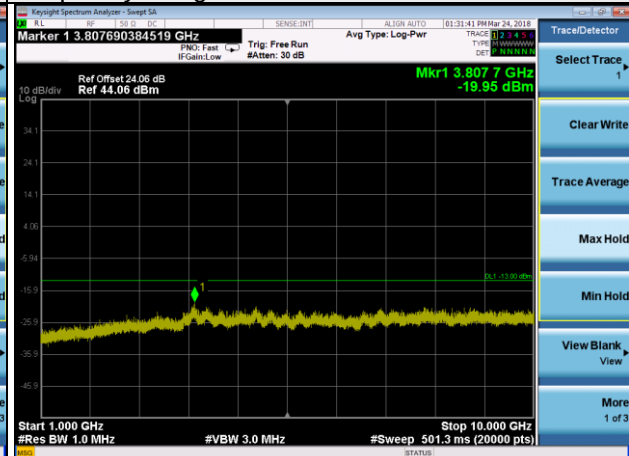
Channel 20643

Frequency Range : 30MHz~1GHz



Channel 20643

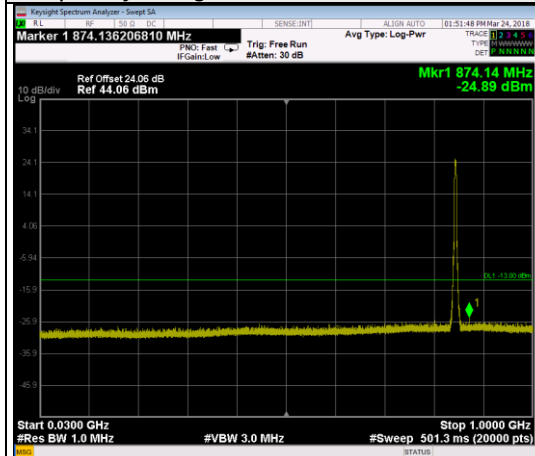
Frequency Range : 1GHz~10GHz



LTE Band 5 Channel Band width: 3MHz

Channel 20635

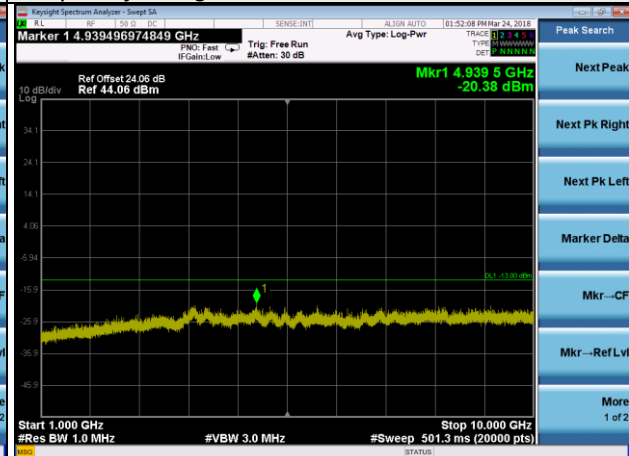
Frequency Range : 30MHz~1GHz

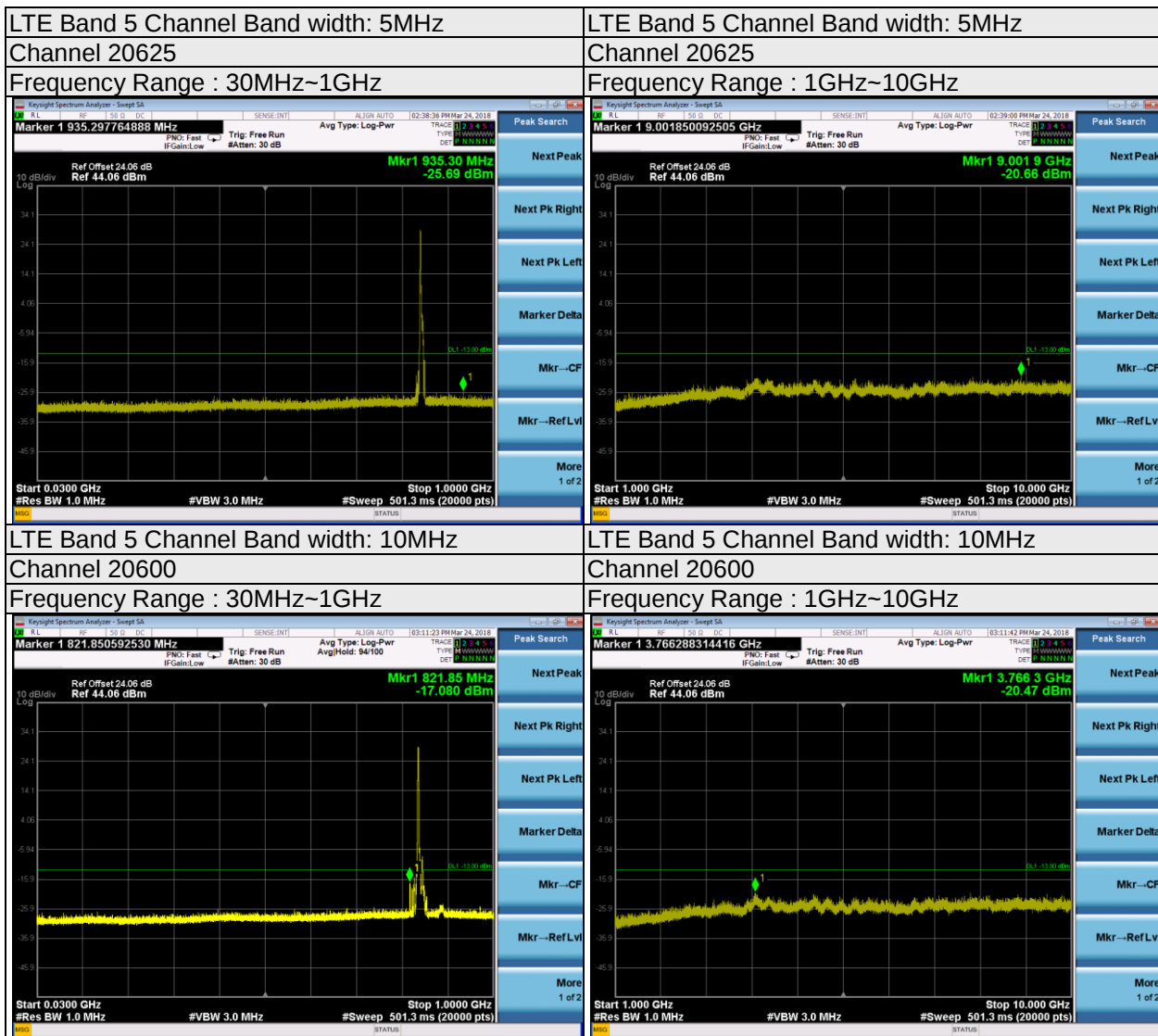


LTE Band 5 Channel Band width: 3MHz

Channel 20635

Frequency Range : 1GHz~10GHz





4.7 Radiated Emission Measurement

4.7.1 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 equal to -13dBm .

4.7.2 Test Procedure

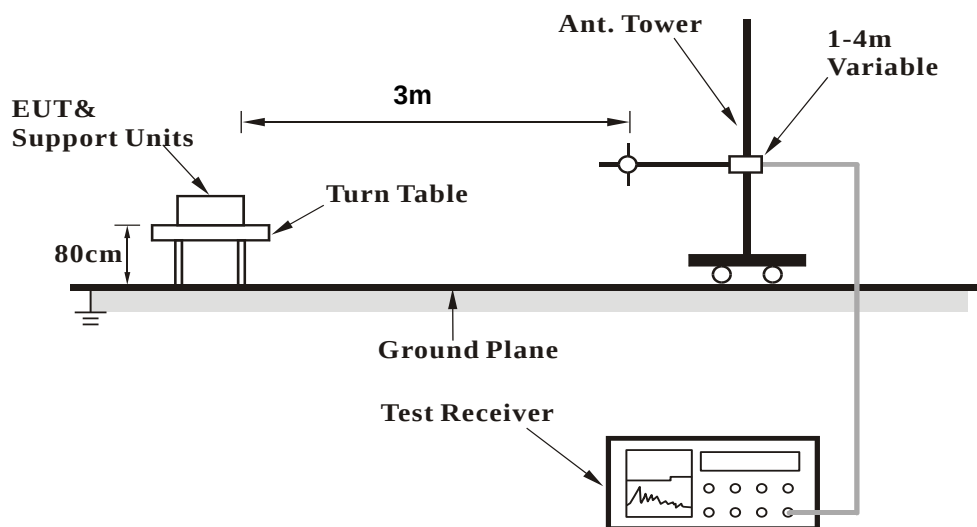
- a. The power was measured with Spectrum Analyzer.
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical 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 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 b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.
- e. ERP power can be calculated form EIRP power by subtracting the gain of dipole, $\text{ERP power} = \text{EIRP power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/1MHz.

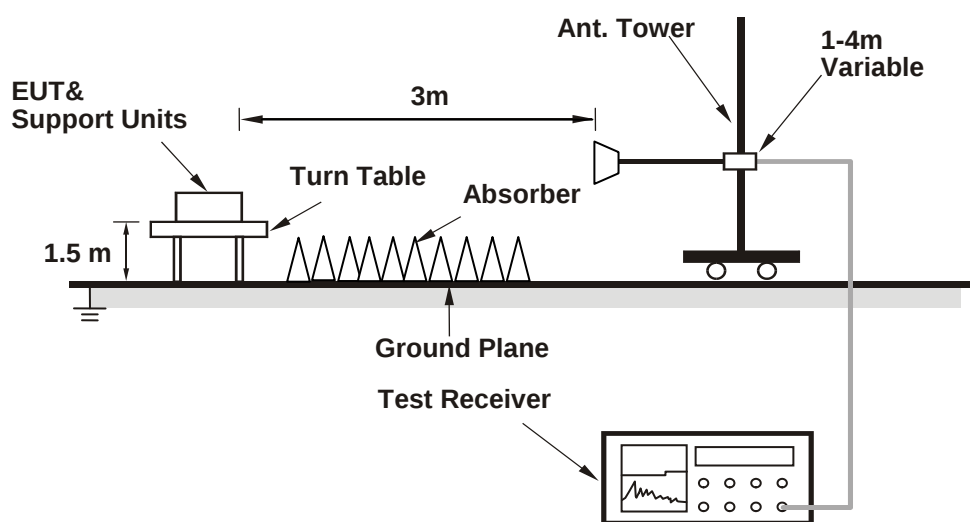
4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup For Below 1GHz



For Above 1GHz:



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

4.7.5 Test Results

BELOW 1GHz

WCDMA:

Mode	TX channel 4132	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	91.86	34.48	-57.59	-1.10	-58.69	-13	-45.69
2	236.66	34.06	-61.31	3.86	-57.45	-13	-44.45
3	290.7	32.89	-62.61	3.77	-58.84	-13	-45.84
4	344.88	32.99	-64.66	3.61	-61.05	-13	-48.05
5	469.53	35.32	-61.87	2.84	-59.03	-13	-46.03
6	736.72	29.58	-66.79	1.03	-65.76	-13	-52.76
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	69.87	29.72	-58.32	-4.72	-63.03	-13	-50.03
2	94.75	32.83	-58.75	-0.93	-59.67	-13	-46.67
3	130.79	27.75	-64.19	-1.25	-65.44	-13	-52.44
4	240.17	30.51	-64.84	3.81	-61.03	-13	-48.03
5	507.19	32.39	-63.04	2.84	-60.21	-13	-47.21
6	609.41	31.24	-63.45	1.78	-61.67	-13	-48.67

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 4182	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	93.83	34.49	-57.24	-0.98	-58.23	-13	-45.23
2	238.33	34.62	-60.74	3.84	-56.90	-13	-43.90
3	287.2	34.15	-61.25	3.80	-57.45	-13	-44.45
4	345.39	33.36	-64.31	3.61	-60.71	-13	-47.71
5	469.95	35.88	-61.28	2.84	-58.44	-13	-45.44
6	737.42	29.73	-66.64	1.02	-65.62	-13	-52.62
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	68.74	31.30	-56.06	-5.04	-61.11	-13	-48.11
2	93.13	32.90	-58.95	-1.02	-59.98	-13	-46.98
3	128.76	28.27	-63.23	-1.24	-64.47	-13	-51.47
4	238.29	31.72	-63.64	3.84	-59.80	-13	-46.80
5	508.68	34.44	-60.98	2.83	-58.15	-13	-45.15
6	608.75	33.89	-60.80	1.78	-59.01	-13	-46.01

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 4233	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	91.93	33.57	-58.49	-1.09	-59.58	-13	-46.58
2	236.87	32.69	-62.68	3.86	-58.82	-13	-45.82
3	286.8	32.61	-62.77	3.80	-58.97	-13	-45.97
4	344.65	33.15	-64.49	3.61	-60.88	-13	-47.88
5	469.49	35.20	-61.99	2.84	-59.15	-13	-46.15
6	737.78	28.56	-67.81	1.01	-66.79	-13	-53.79

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	68.81	30.95	-56.45	-5.02	-61.48	-13	-48.48
2	94.35	32.25	-59.39	-0.95	-60.35	-13	-47.35
3	128.59	26.21	-65.25	-1.24	-66.49	-13	-53.49
4	236.7	30.51	-64.86	3.86	-61.00	-13	-48.00
5	509.9	32.21	-63.19	2.82	-60.38	-13	-47.38
6	608.68	32.06	-62.63	1.78	-60.84	-13	-47.84

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 1.4MHz

Mode	TX channel 20407	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	71.12	29.97	-62.82	-1.33	-64.15	-13	-51.15
2	136.82	29.49	-65.76	3.43	-62.33	-13	-49.33
3	301.72	28.37	-67.55	3.68	-63.86	-13	-50.86
4	332.51	30.93	-65.45	3.68	-61.77	-13	-48.77
5	347.89	39.26	-64.83	2.63	-62.20	-13	-49.20
6	914.41	33.88	-62.20	7.14	-55.06	-13	-42.06
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	36.3	28.81	-36.76	-15.59	-52.34	-13	-39.34
2	71.87	28.49	-66.60	-2.11	-68.70	-13	-55.70
3	351.49	33.62	-86.61	-2.08	-88.69	-13	-75.69
4	467.41	30.14	-64.83	2.33	-62.50	-13	-49.50
5	491.95	29.40	-67.05	3.48	-63.58	-13	-50.58
6	883.97	30.89	-62.74	1.92	-60.82	-13	-47.82

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	71.34	29.02	-63.77	-1.33	-65.10	-13	-52.10
2	136.64	26.71	-68.54	3.43	-65.11	-13	-52.11
3	302.18	26.98	-68.94	3.68	-65.25	-13	-52.25
4	331.71	30.35	-66.03	3.68	-62.35	-13	-49.35
5	349.19	38.44	-65.65	2.63	-63.02	-13	-50.02
6	914.29	32.94	-63.14	7.14	-56.00	-13	-43.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	35.86	28.22	-37.35	-15.59	-52.93	-13	-39.93
2	70.13	28.31	-66.78	-2.11	-68.88	-13	-55.88
3	351.57	33.72	-86.51	-2.08	-88.59	-13	-75.59
4	467.34	30.10	-64.87	2.33	-62.54	-13	-49.54
5	491.73	29.02	-67.43	3.48	-63.96	-13	-50.96
6	882.02	29.75	-63.88	1.92	-61.96	-13	-48.96

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20643	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	70.23	26.57	-66.22	-1.33	-67.55	-13	-54.55
2	137.21	26.43	-68.82	3.43	-65.39	-13	-52.39
3	301.61	28.89	-67.03	3.68	-63.34	-13	-50.34
4	331.4	31.03	-65.35	3.68	-61.67	-13	-48.67
5	349.13	38.14	-65.95	2.63	-63.32	-13	-50.32
6	914.97	32.52	-63.56	7.14	-56.42	-13	-43.42

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	36.97	25.38	-40.19	-15.59	-55.77	-13	-42.77
2	70.75	25.25	-69.84	-2.11	-71.94	-13	-58.94
3	351.06	32.74	-87.49	-2.08	-89.57	-13	-76.57
4	468.06	29.11	-65.86	2.33	-63.53	-13	-50.53
5	493.05	28.65	-67.80	3.48	-64.33	-13	-51.33
6	882.69	30.31	-63.32	1.92	-61.40	-13	-48.40

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 3MHz

Mode	TX channel 20415	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	71.17	28.44	-64.35	-1.33	-65.68	-13	-52.68
2	135.95	28.76	-66.49	3.43	-63.06	-13	-50.06
3	301.66	29.28	-66.64	3.68	-62.95	-13	-49.95
4	331.03	31.43	-64.95	3.68	-61.27	-13	-48.27
5	346.72	38.09	-66.00	2.63	-63.37	-13	-50.37
6	915	33.81	-62.27	7.14	-55.13	-13	-42.13
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	37.8	26.62	-38.95	-15.59	-54.53	-13	-41.53
2	72.76	27.48	-67.61	-2.11	-69.71	-13	-56.71
3	349.96	31.37	-88.86	-2.08	-90.94	-13	-77.94
4	467.58	27.73	-67.24	2.33	-64.91	-13	-51.91
5	491.75	26.76	-69.69	3.48	-66.22	-13	-53.22
6	884	28.75	-64.88	1.92	-62.96	-13	-49.96

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	72.85	28.68	-64.11	-1.33	-65.44	-13	-52.44
2	136.34	29.23	-66.02	3.43	-62.59	-13	-49.59
3	302.35	26.55	-69.37	3.68	-65.68	-13	-52.68
4	331.25	29.35	-67.03	3.68	-63.35	-13	-50.35
5	348.03	37.90	-66.19	2.63	-63.56	-13	-50.56
6	914.98	32.79	-63.29	7.14	-56.15	-13	-43.15
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	35.38	28.16	-37.41	-15.59	-52.99	-13	-39.99
2	72.29	26.95	-68.14	-2.11	-70.24	-13	-57.24
3	351.13	32.15	-88.08	-2.08	-90.16	-13	-77.16
4	467.16	27.32	-67.65	2.33	-65.32	-13	-52.32
5	492.07	28.23	-68.22	3.48	-64.75	-13	-51.75
6	884.15	29.14	-64.49	1.92	-62.57	-13	-49.57

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20635	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	37.97	27.40	-38.17	-15.59	-53.75	-13	-40.75
2	71.78	26.93	-68.16	-2.11	-70.26	-13	-57.26
3	350.82	31.76	-88.47	-2.08	-90.55	-13	-77.55
4	465.76	26.84	-68.13	2.33	-65.80	-13	-52.80
5	491.99	27.17	-69.28	3.48	-65.81	-13	-52.81
6	882.8	28.02	-65.61	1.92	-63.69	-13	-50.69

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	71.9	26.39	-66.40	-1.33	-67.73	-13	-54.73
2	134.96	26.96	-68.29	3.43	-64.86	-13	-51.86
3	302.47	27.45	-68.47	3.68	-64.78	-13	-51.78
4	332.89	28.28	-68.10	3.68	-64.42	-13	-51.42
5	348.04	36.34	-67.75	2.63	-65.12	-13	-52.12
6	914.32	32.07	-64.01	7.14	-56.87	-13	-43.87

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 5MHz

Mode	TX channel 20425	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	71.26	26.87	-65.92	-1.33	-67.25	-13	-54.25
2	133.68	27.43	-67.82	3.43	-64.39	-13	-51.39
3	301.72	28.44	-67.48	3.68	-63.79	-13	-50.79
4	331.95	28.29	-68.09	3.68	-64.41	-13	-51.41
5	348.03	37.90	-66.19	2.63	-63.56	-13	-50.56
6	915.28	32.51	-63.57	7.14	-56.43	-13	-43.43
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	36.97	27.42	-38.15	-15.59	-53.73	-13	-40.73
2	72.93	28.83	-66.26	-2.11	-68.36	-13	-55.36
3	351.56	29.77	-90.46	-2.08	-92.54	-13	-79.54
4	465.56	27.71	-67.26	2.33	-64.93	-13	-51.93
5	491.92	27.49	-68.96	3.48	-65.49	-13	-52.49
6	883.59	28.63	-65.00	1.92	-63.08	-13	-50.08

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	73.42	28.77	-64.02	-1.33	-65.35	-13	-52.35
2	133.82	28.93	-66.32	3.43	-62.89	-13	-49.89
3	302.5	29.33	-66.59	3.68	-62.90	-13	-49.90
4	331.15	27.46	-68.92	3.68	-65.24	-13	-52.24
5	350.04	35.28	-68.81	2.63	-66.18	-13	-53.18
6	914.75	30.74	-65.34	7.14	-58.20	-13	-45.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	37.88	27.07	-38.50	-15.59	-54.08	-13	-41.08
2	73.37	26.47	-68.62	-2.11	-70.72	-13	-57.72
3	351.56	29.85	-90.38	-2.08	-92.46	-13	-79.46
4	465.68	26.34	-68.63	2.33	-66.30	-13	-53.30
5	493.49	25.68	-70.77	3.48	-67.30	-13	-54.30
6	882.88	26.88	-66.75	1.92	-64.83	-13	-51.83

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20625	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	72.34	27.82	-64.97	-1.33	-66.30	-13	-53.30
2	133.24	28.13	-67.12	3.43	-63.69	-13	-50.69
3	302.17	28.14	-67.78	3.68	-64.09	-13	-51.09
4	333.26	28.69	-67.69	3.68	-64.01	-13	-51.01
5	349.91	36.14	-67.95	2.63	-65.32	-13	-52.32
6	914.93	29.73	-66.36	7.14	-59.22	-13	-46.22
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	36.43	27.19	-38.38	-15.59	-53.96	-13	-40.96
2	72.58	26.86	-68.23	-2.11	-70.33	-13	-57.33
3	353.31	29.77	-90.46	-2.08	-92.54	-13	-79.54
4	465.43	26.59	-68.38	2.33	-66.05	-13	-53.05
5	494.33	27.19	-69.26	3.48	-65.79	-13	-52.79
6	883.37	28.14	-65.49	1.92	-63.57	-13	-50.57

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 10MHz

Mode	TX channel 20450	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	72.38	28.49	-64.30	-1.33	-65.63	-13	-52.63
2	132.42	28.51	-66.74	3.43	-63.31	-13	-50.31
3	300.36	27.78	-68.14	3.68	-64.45	-13	-51.45
4	332.72	26.98	-69.40	3.68	-65.72	-13	-52.72
5	348.69	36.12	-67.97	2.63	-65.34	-13	-52.34
6	916.29	29.52	-66.56	7.14	-59.42	-13	-46.42
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	37.01	26.49	-39.08	-15.59	-54.66	-13	-41.66
2	72.03	27.05	-68.04	-2.11	-70.14	-13	-57.14
3	352.9	28.19	-92.04	-2.08	-94.12	-13	-81.12
4	466.09	26.74	-68.23	2.33	-65.90	-13	-52.90
5	493.43	26.93	-69.52	3.48	-66.05	-13	-53.05
6	884.82	25.47	-68.16	1.92	-66.24	-13	-53.24

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	73.28	28.52	-64.27	-1.33	-65.60	-13	-52.60
2	132.24	28.11	-67.14	3.43	-63.71	-13	-50.71
3	300.7	27.71	-68.21	3.68	-64.52	-13	-51.52
4	332.63	26.97	-69.41	3.68	-65.73	-13	-52.73
5	348.2	37.12	-66.97	2.63	-64.34	-13	-51.34
6	915.85	29.31	-66.77	7.14	-59.63	-13	-46.63
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	36.49	27.32	-38.25	-15.59	-53.83	-13	-40.83
2	73.55	26.72	-68.37	-2.11	-70.47	-13	-57.47
3	352.31	29.59	-90.64	-2.08	-92.72	-13	-79.72
4	465.82	28.93	-66.04	2.33	-63.71	-13	-50.71
5	493.51	28.47	-67.98	3.48	-64.51	-13	-51.51
6	885.65	26.79	-66.84	1.92	-64.92	-13	-51.92

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20600	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	73.69	28.13	-64.66	-1.33	-65.99	-13	-52.99
2	131.79	27.49	-67.76	3.43	-64.33	-13	-51.33
3	300.04	28.44	-67.48	3.68	-63.79	-13	-50.79
4	333.04	26.93	-69.45	3.68	-65.77	-13	-52.77
5	348.88	37.41	-66.68	2.63	-64.05	-13	-51.05
6	916.02	29.18	-66.90	7.14	-59.76	-13	-46.76
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	37.03	26.94	-38.63	-15.59	-54.21	-13	-41.21
2	73.73	27.17	-67.92	-2.11	-70.02	-13	-57.02
3	353.73	28.19	-92.04	-2.08	-94.12	-13	-81.12
4	463.17	26.38	-68.59	2.33	-66.26	-13	-53.26
5	491.62	28.89	-67.56	3.48	-64.09	-13	-51.09
6	885.3	27.32	-66.31	1.92	-64.39	-13	-51.39

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

ABOVE 1GHz

WCDMA:

Mode	TX channel 4132	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1652.8	36.57	-66.16	6.27	-59.89	-13	-46.89
2	2479.2	42.09	-56.18	6.63	-49.55	-13	-36.55
3	3305.6	47.54	-42.82	13.37	-29.45	-13	-16.45
4	4132	48.67	-56.23	7.47	-48.76	-13	-35.76
5	4958.4	47.33	-56.84	7.00	-49.84	-13	-36.84
6	5784.8	49.51	-54.63	7.13	-47.50	-13	-34.50
7	6611.2	52.29	-51.38	5.71	-45.66	-13	-32.66
8	7437.6	51.57	-51.05	4.60	-46.45	-13	-33.45
9	8264	53.78	-48.71	4.17	-44.54	-13	-31.54
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1652.8	34.3	-68.43	6.27	-62.16	-13	-49.16
2	2479.2	44.44	-53.83	6.63	-47.20	-13	-34.20
3	3305.6	45.55	-56.94	7.97	-48.96	-13	-35.96
4	4132	46.31	-58.59	7.47	-51.12	-13	-38.12
5	4958.4	49.26	-54.91	7.00	-47.91	-13	-34.91
6	5784.8	49.27	-54.87	7.13	-47.74	-13	-34.74
7	6611.2	55.09	-48.58	5.71	-42.86	-13	-29.86
8	7437.6	50.95	-51.67	4.60	-47.07	-13	-34.07
9	8264	52.47	-50.02	4.17	-45.85	-13	-32.85

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 4182	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1672.8	39.16	-63.47	6.31	-57.16	-13	-44.16
2	2509.2	45.68	-52.84	6.66	-46.18	-13	-33.18
3	3345.6	45.59	-44.77	13.37	-31.40	-13	-18.40
4	4182	46.12	-58.72	7.44	-51.28	-13	-38.28
5	5018.4	48.33	-55.93	7.01	-48.92	-13	-35.92
6	5854.8	50.85	-53.29	7.02	-46.27	-13	-33.27
7	6691.2	55.96	-47.37	5.56	-41.81	-13	-28.81
8	7527.6	51.48	-51.14	4.52	-46.62	-13	-33.62
9	8364	53.84	-48.71	4.19	-44.52	-13	-31.52
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1672.8	34.3	-68.33	6.31	-62.02	-13	-49.02
2	2509.2	45.36	-53.16	6.66	-46.50	-13	-33.50
3	3345.6	46.51	-56.12	7.95	-48.18	-13	-35.18
4	4182	46.28	-58.56	7.44	-51.12	-13	-38.12
5	5018.4	48.46	-55.80	7.01	-48.79	-13	-35.79
6	5854.8	50.19	-53.95	7.02	-46.93	-13	-33.93
7	6691.2	55.35	-47.98	5.56	-42.42	-13	-29.42
8	7527.6	51.76	-50.86	4.52	-46.34	-13	-33.34
9	8364	54.01	-48.54	4.19	-44.35	-13	-31.35

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 4233	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693.2	38.10	-64.43	6.34	-58.08	-13	-45.08
2	2539.8	42.66	-56.11	6.69	-49.42	-13	-36.42
3	3386.4	45.82	-44.54	13.37	-31.17	-13	-18.17
4	4233	47.14	-57.65	7.42	-50.23	-13	-37.23
5	5079.6	47.51	-56.84	7.03	-49.81	-13	-36.81
6	5926.2	50.2	-53.94	6.89	-47.05	-13	-34.05
7	6772.8	53.02	-49.96	5.41	-44.56	-13	-31.56
8	7619.4	49.93	-52.69	4.44	-48.25	-13	-35.25
9	8466	53	-49.60	4.20	-45.40	-13	-32.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693.2	34.3	-68.23	6.34	-61.88	-13	-48.88
2	2539.8	44.95	-53.82	6.69	-47.13	-13	-34.13
3	3386.4	45.42	-57.36	7.92	-49.44	-13	-36.44
4	4233	48.55	-56.24	7.42	-48.82	-13	-35.82
5	5079.6	47.88	-56.47	7.03	-49.44	-13	-36.44
6	5926.2	51.6	-52.54	6.89	-45.65	-13	-32.65
7	6772.8	54.45	-48.53	5.41	-43.13	-13	-30.13
8	7619.4	49.71	-52.91	4.44	-48.47	-13	-35.47
9	8466	52.17	-50.43	4.20	-46.23	-13	-33.23

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 1.4 MHz

Mode	TX channel 20407	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1649.4	58.91	-43.84	6.27	-37.57	-13	-24.57
2	2474.1	39.86	-58.37	6.62	-51.74	-13	-38.74
3	3298.8	45.80	-57.15	7.56	-49.59	-13	-36.59
4	4123.5	47.41	-57.49	7.47	-50.02	-13	-37.02
5	4948.2	48.64	-55.51	7.00	-48.52	-13	-35.52
6	5772.9	48.30	-56.22	6.93	-49.29	-13	-36.29
7	6597.6	48.65	-55.08	5.74	-49.34	-13	-36.34
8	7422.3	61.42	-41.20	4.61	-36.59	-13	-23.59
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1649.4	59.47	-43.28	6.27	-37.01	-13	-24.01
2	2474.1	44.35	-53.88	6.62	-47.25	-13	-34.25
3	3298.8	42.36	-60.59	7.56	-53.03	-13	-40.03
4	4123.5	47.09	-57.81	7.47	-50.34	-13	-37.34
5	4948.2	47.71	-56.44	7.00	-49.45	-13	-36.45
6	5772.9	47.25	-57.27	6.93	-50.34	-13	-37.34
7	6597.6	48.40	-55.33	5.74	-49.59	-13	-36.59
8	7422.3	59.67	-42.95	4.61	-38.34	-13	-25.34

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	58.71	-37.80	9.04	-28.77	-13	-15.77
2	2509.5	39.88	-70.12	9.21	-60.91	-13	-47.91
3	3346	46.63	-55.99	8.10	-47.89	-13	-34.89
4	4182.5	47.88	-67.25	5.16	-62.08	-13	-49.08
5	5019	48.62	-54.13	-5.28	-59.41	-13	-46.41
6	5855.5	48.00	-63.83	2.90	-60.94	-13	-47.94
7	6692	48.77	-61.37	-8.52	-69.89	-13	-56.89
8	7528.5	62.30	-35.05	3.70	-31.35	-13	-18.35
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	58.73	-37.78	9.04	-28.75	-13	-15.75
2	2509.5	44.90	-65.10	9.21	-55.89	-13	-42.89
3	3346	41.54	-61.08	8.10	-52.98	-13	-39.98
4	4182.5	47.73	-67.40	5.16	-62.23	-13	-49.23
5	5019	48.47	-54.28	-5.28	-59.56	-13	-46.56
6	5855.5	46.58	-65.25	2.90	-62.36	-13	-49.36
7	6692	47.56	-62.58	-8.52	-71.10	-13	-58.10
8	7528.5	60.33	-37.02	3.70	-33.32	-13	-20.32

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20643	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1696.6	59.10	-37.50	9.02	-28.48	-13	-15.48
2	2544.9	39.86	-70.08	9.19	-60.90	-13	-47.90
3	3393.2	45.80	-56.82	4.43	-52.39	-13	-39.39
4	4241.5	46.68	-54.93	4.18	-50.76	-13	-37.76
5	5089.8	49.42	-53.31	-5.18	-58.49	-13	-45.49
6	5938.1	49.25	-51.07	3.57	-47.50	-13	-34.50
7	6786.4	48.63	-48.72	3.70	-45.02	-13	-32.02
8	7634.7	61.81	-35.54	3.70	-31.84	-13	-18.84
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1696.6	59.63	-36.97	9.02	-27.95	-13	-14.95
2	2544.9	43.77	-66.17	9.19	-56.99	-13	-43.99
3	3393.2	41.73	-60.89	4.43	-56.46	-13	-43.46
4	4241.5	47.46	-54.15	4.18	-49.98	-13	-36.98
5	5089.8	47.83	-54.90	-5.18	-60.08	-13	-47.08
6	5938.1	47.14	-53.18	3.57	-49.61	-13	-36.61
7	6786.4	48.15	-49.20	3.70	-45.50	-13	-32.50
8	7634.7	60.63	-36.72	3.70	-33.02	-13	-20.02

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 3 MHz

Mode	TX channel 20415	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1651	59.46	-43.29	6.27	-37.02	-13	-24.02
2	2476.5	39.34	-58.89	6.62	-52.26	-13	-39.26
3	3302	44.92	-58.03	7.56	-50.47	-13	-37.47
4	4127.5	47.59	-57.31	7.47	-49.84	-13	-36.84
5	4953	49.01	-55.14	7.00	-48.15	-13	-35.15
6	5778.5	48.79	-55.73	6.93	-48.80	-13	-35.80
7	6604	48.73	-55.00	5.74	-49.26	-13	-36.26
8	7429.5	62.10	-40.52	4.61	-35.91	-13	-22.91
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1651	60.42	-42.33	6.27	-36.06	-13	-23.06
2	2476.5	44.41	-53.82	6.62	-47.19	-13	-34.19
3	3302	42.16	-60.79	7.56	-53.23	-13	-40.23
4	4127.5	48.11	-56.79	7.47	-49.32	-13	-36.32
5	4953	48.30	-55.85	7.00	-48.86	-13	-35.86
6	5778.5	47.78	-56.74	6.93	-49.81	-13	-36.81
7	6604	48.66	-55.07	5.74	-49.33	-13	-36.33
8	7429.5	59.71	-42.91	4.61	-38.30	-13	-25.30

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	59.57	-36.94	9.04	-27.91	-13	-14.91
2	2509.5	38.98	-71.02	9.21	-61.81	-13	-48.81
3	3346	46.39	-56.23	8.10	-48.13	-13	-35.13
4	4182.5	47.96	-67.17	5.16	-62.00	-13	-49.00
5	5019	48.10	-54.65	-5.28	-59.93	-13	-46.93
6	5855.5	48.80	-63.03	2.90	-60.14	-13	-47.14
7	6692	48.02	-62.12	-8.52	-70.64	-13	-57.64
8	7528.5	60.61	-36.74	3.70	-33.04	-13	-20.04
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	59.80	-36.71	9.04	-27.68	-13	-14.68
2	2509.5	44.63	-65.37	9.21	-56.16	-13	-43.16
3	3346	42.30	-60.32	8.10	-52.22	-13	-39.22
4	4182.5	46.82	-68.31	5.16	-63.14	-13	-50.14
5	5019	48.34	-54.41	-5.28	-59.69	-13	-46.69
6	5855.5	47.40	-64.43	2.90	-61.54	-13	-48.54
7	6692	48.38	-61.76	-8.52	-70.28	-13	-57.28
8	7528.5	60.15	-37.20	3.70	-33.50	-13	-20.50

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20635	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1695	59.90	-36.69	9.02	-27.67	-13	-14.67
2	2542.5	39.88	-70.07	9.19	-60.88	-13	-47.88
3	3390	45.21	-57.41	4.43	-52.98	-13	-39.98
4	4237.5	47.99	-53.62	4.18	-49.45	-13	-36.45
5	5085	49.48	-53.25	-5.19	-58.44	-13	-45.44
6	5932.5	48.74	-51.58	3.57	-48.01	-13	-35.01
7	6780	48.47	-48.88	3.70	-45.18	-13	-32.18
8	7627.5	61.32	-36.03	3.70	-32.33	-13	-19.33
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1695	58.97	-37.62	9.02	-28.60	-13	-15.60
2	2542.5	44.12	-65.83	9.19	-56.64	-13	-43.64
3	3390	41.91	-60.71	4.43	-56.28	-13	-43.28
4	4237.5	46.58	-55.03	4.18	-50.86	-13	-37.86
5	5085	48.25	-54.48	-5.19	-59.67	-13	-46.67
6	5932.5	46.52	-53.80	3.57	-50.23	-13	-37.23
7	6780	47.99	-49.36	3.70	-45.66	-13	-32.66
8	7627.5	61.16	-36.19	3.70	-32.49	-13	-19.49

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 5 MHz

Mode	TX channel 20425	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1653	58.64	-44.11	6.27	-37.84	-13	-24.84
2	2479.5	39.68	-58.55	6.62	-51.92	-13	-38.92
3	3306	45.79	-57.16	7.56	-49.60	-13	-36.60
4	4132.5	47.38	-57.52	7.47	-50.05	-13	-37.05
5	4959	48.39	-55.76	7.00	-48.77	-13	-35.77
6	5785.5	48.27	-56.25	6.93	-49.32	-13	-36.32
7	6612	48.35	-55.38	5.74	-49.64	-13	-36.64
8	7438.5	61.89	-40.73	4.61	-36.12	-13	-23.12
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1653	60.31	-42.44	6.27	-36.17	-13	-23.17
2	2479.5	42.81	-55.42	6.62	-48.79	-13	-35.79
3	3306	41.31	-61.64	7.56	-54.08	-13	-41.08
4	4132.5	46.85	-58.05	7.47	-50.58	-13	-37.58
5	4959	47.80	-56.35	7.00	-49.36	-13	-36.36
6	5785.5	46.88	-57.64	6.93	-50.71	-13	-37.71
7	6612	48.12	-55.61	5.74	-49.87	-13	-36.87
8	7438.5	60.78	-41.84	4.61	-37.23	-13	-24.23

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	58.44	-38.07	9.04	-29.04	-13	-16.04
2	2509.5	38.90	-71.10	9.21	-61.89	-13	-48.89
3	3346	46.70	-55.92	8.10	-47.82	-13	-34.82
4	4182.5	47.32	-67.81	5.16	-62.64	-13	-49.64
5	5019	49.29	-53.46	-5.28	-58.74	-13	-45.74
6	5855.5	48.15	-63.68	2.90	-60.79	-13	-47.79
7	6692	49.48	-60.66	-8.52	-69.18	-13	-56.18
8	7528.5	60.75	-36.60	3.70	-32.90	-13	-19.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	59.91	-36.60	9.04	-27.57	-13	-14.57
2	2509.5	44.12	-65.88	9.21	-56.67	-13	-43.67
3	3346	42.10	-60.52	8.10	-52.42	-13	-39.42
4	4182.5	47.56	-67.57	5.16	-62.40	-13	-49.40
5	5019	48.26	-54.49	-5.28	-59.77	-13	-46.77
6	5855.5	48.13	-63.70	2.90	-60.81	-13	-47.81
7	6692	47.75	-62.39	-8.52	-70.91	-13	-57.91
8	7528.5	60.61	-36.74	3.70	-33.04	-13	-20.04

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20625	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693	59.72	-36.87	9.02	-27.84	-13	-14.84
2	2539.5	40.59	-69.36	9.19	-60.17	-13	-47.17
3	3386	45.72	-56.90	4.43	-52.47	-13	-39.47
4	4232.5	46.84	-54.77	4.18	-50.60	-13	-37.60
5	5079	49.50	-53.23	-5.20	-58.43	-13	-45.43
6	5925.5	48.27	-52.05	3.57	-48.48	-13	-35.48
7	6772	48.11	-49.24	3.70	-45.54	-13	-32.54
8	7618.5	61.49	-35.86	3.70	-32.16	-13	-19.16
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693	58.66	-37.93	9.02	-28.90	-13	-15.90
2	2539.5	43.55	-66.40	9.19	-57.21	-13	-44.21
3	3386	40.85	-61.77	4.43	-57.34	-13	-44.34
4	4232.5	47.98	-53.63	4.18	-49.46	-13	-36.46
5	5079	48.34	-54.39	-5.20	-59.59	-13	-46.59
6	5925.5	46.26	-54.06	3.57	-50.49	-13	-37.49
7	6772	48.48	-48.87	3.70	-45.17	-13	-32.17
8	7618.5	60.54	-36.81	3.70	-33.11	-13	-20.11

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 5: 10 MHz

Mode	TX channel 20450	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	59.46	-43.29	6.27	-37.02	-13	-24.02
2	2487	39.84	-58.39	6.62	-51.76	-13	-38.76
3	3316	45.20	-57.75	7.56	-50.19	-13	-37.19
4	4145	47.34	-57.56	7.47	-50.09	-13	-37.09
5	4974	47.92	-56.23	7.00	-49.24	-13	-36.24
6	5803	47.70	-56.82	6.93	-49.89	-13	-36.89
7	6632	48.49	-55.24	5.74	-49.50	-13	-36.50
8	7461	62.11	-40.51	4.61	-35.90	-13	-22.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	60.31	-42.44	6.27	-36.17	-13	-23.17
2	2487	44.07	-54.16	6.62	-47.53	-13	-34.53
3	3316	42.50	-60.45	7.56	-52.89	-13	-39.89
4	4145	47.86	-57.04	7.47	-49.57	-13	-36.57
5	4974	48.12	-56.03	7.00	-49.04	-13	-36.04
6	5803	46.43	-58.09	6.93	-51.16	-13	-38.16
7	6632	48.98	-54.75	5.74	-49.01	-13	-36.01
8	7461	60.00	-42.62	4.61	-38.01	-13	-25.01

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20525	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	58.51	-38.00	9.04	-28.97	-13	-15.97
2	2509.5	39.49	-70.51	9.21	-61.30	-13	-48.30
3	3346	45.91	-56.71	8.10	-48.61	-13	-35.61
4	4182.5	48.00	-67.13	5.16	-61.96	-13	-48.96
5	5019	47.67	-55.08	-5.28	-60.36	-13	-47.36
6	5855.5	48.25	-63.58	2.90	-60.69	-13	-47.69
7	6692	48.43	-61.71	-8.52	-70.23	-13	-57.23
8	7528.5	60.94	-36.41	3.70	-32.71	-13	-19.71
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	60.32	-36.19	9.04	-27.16	-13	-14.16
2	2509.5	44.29	-65.71	9.21	-56.50	-13	-43.50
3	3346	41.27	-61.35	8.10	-53.25	-13	-40.25
4	4182.5	46.67	-68.46	5.16	-63.29	-13	-50.29
5	5019	47.54	-55.21	-5.28	-60.49	-13	-47.49
6	5855.5	47.48	-64.35	2.90	-61.46	-13	-48.46
7	6692	48.82	-61.32	-8.52	-69.84	-13	-56.84
8	7528.5	60.15	-37.20	3.70	-33.50	-13	-20.50

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 20600	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	59.43	-37.14	9.03	-28.11	-13	-15.11
2	2532	39.12	-70.85	9.20	-61.65	-13	-48.65
3	3376	45.48	-57.14	4.43	-52.71	-13	-39.71
4	4220	47.68	-53.93	4.18	-49.76	-13	-36.76
5	5064	48.45	-54.29	-5.22	-59.50	-13	-46.50
6	5908	47.52	-52.80	3.57	-49.23	-13	-36.23
7	6752	47.82	-49.53	3.70	-45.83	-13	-32.83
8	7596	61.78	-35.57	3.70	-31.87	-13	-18.87
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	58.89	-37.68	9.03	-28.65	-13	-15.65
2	2532	42.81	-67.16	9.20	-57.96	-13	-44.96
3	3376	42.42	-60.20	4.43	-55.77	-13	-42.77
4	4220	46.86	-54.75	4.18	-50.58	-13	-37.58
5	5064	46.88	-55.86	-5.22	-61.07	-13	-48.07
6	5908	46.71	-53.61	3.57	-50.04	-13	-37.04
7	6752	48.83	-48.52	3.70	-44.82	-13	-31.82
8	7596	60.66	-36.69	3.70	-32.99	-13	-19.99

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

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

Appendix – 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.

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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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