

FCC Test Report

(PART 22)

Report No.: RF160317C10-3

FCC ID: NM82PST200

Test Model: 2PST200

Received Date: Mar. 15, 2016

Test Date: Mar. 15, 2016 ~ Apr. 01, 2016

Issued Date: Apr. 28, 2016

Applicant: HTC Corporation

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(R.O.C)

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Release Control Record

Issue No.	Description	Date Issued
RF160317C10-3	Original Release	Apr. 28, 2016

1 Certificate of Conformity

Product: Smartphone

Brand: HTC

Test Model: 2PST200

Sample Status: Identical Prototype

Applicant: HTC Corporation

Test Date: Mar. 15, 2016 ~ Apr. 01, 2016

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 EMC characteristics under the conditions specified in this report.

Prepared by :

Vera Huang

Date:

Apr. 28, 2016

Vera Huang / Specialist

Approved by :

Stanley Wu

Date:

Apr. 28, 2016

Stanley Wu / Assistant 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 -26.74 dB at 30.00 MHz.

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) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 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
Test Receiver Agilent	N9038A	MY51210203	Jan. 21, 2016	Jan. 20, 2017
Spectrum Analyzer Agilent	N9010A	MY52220314	Sep. 03, 2015	Sep. 02, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 04, 2016	Jan. 03, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Jan. 04, 2016	Jan. 03, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Jan. 07, 2016	Jan. 06, 2017
Loop Antenna	EM-6879	269	Jul. 31, 2015	Jul. 30, 2016
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier EMCI	EMC 012645	980115	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 184045	980116	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2015	Dec. 27, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 12, 2015	Oct. 11, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 12, 2015	Oct. 11, 2016
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 12, 2015	Oct. 11, 2016
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

- 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 HwaYa Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC7450F-10.

3 General Information

3.1 General Description of EUT

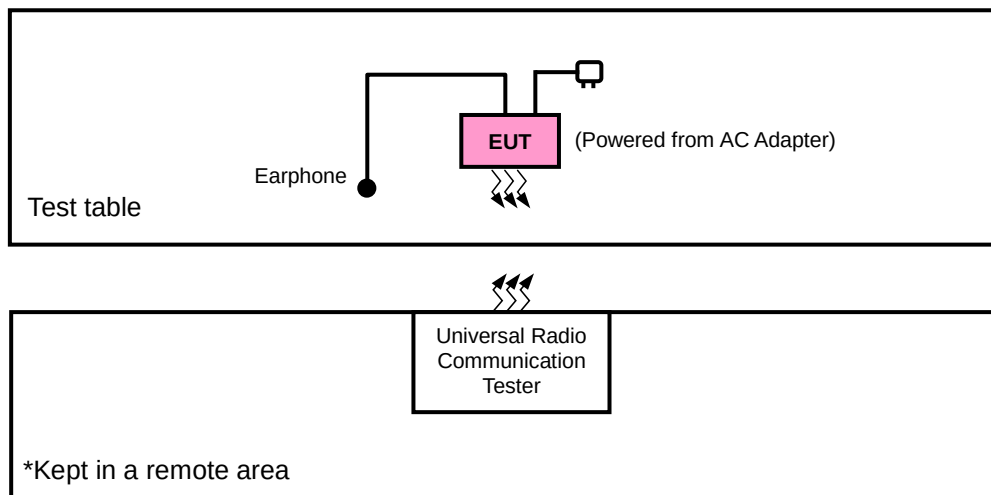
Product	Smartphone	
Brand	HTC	
Test Model	2PST200	
Power Supply Rating	5.0 Vdc (adapter or host equipment) 3.85 Vdc (Li-ion battery)	
Modulation Type	GSM/GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	BPSK
	LTE	QPSK, 16QAM
Frequency Range	GSM/GPRS/EDGE	824.2 ~ 848.8 MHz
	WCDMA	826.4 ~ 846.6 MHz
	LTE 5 (Channel Bandwidth: 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
Max. ERP Power	GSM/GPRS	682.34 mW
	EDGE	184.93 mW
	WCDMA	62.52 mW
	LTE 5 (Channel Bandwidth: 1.4 MHz)	59.16 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	60.12 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	61.24 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	62.09 mW
Emission Designator	GSM/GPRS	248KGXW
	EDGE	248KG7W
	WCDMA	4M16F9W
	LTE 5 (Channel Bandwidth: 1.4 MHz)	1M09G7D
	LTE 5 (Channel Bandwidth: 3 MHz)	2M70W7D
	LTE 5 (Channel Bandwidth: 5 MHz)	4M50G7D
	LTE 5 (Channel Bandwidth: 10 MHz)	8M98W7D
Antenna Type	Fixed Internal Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

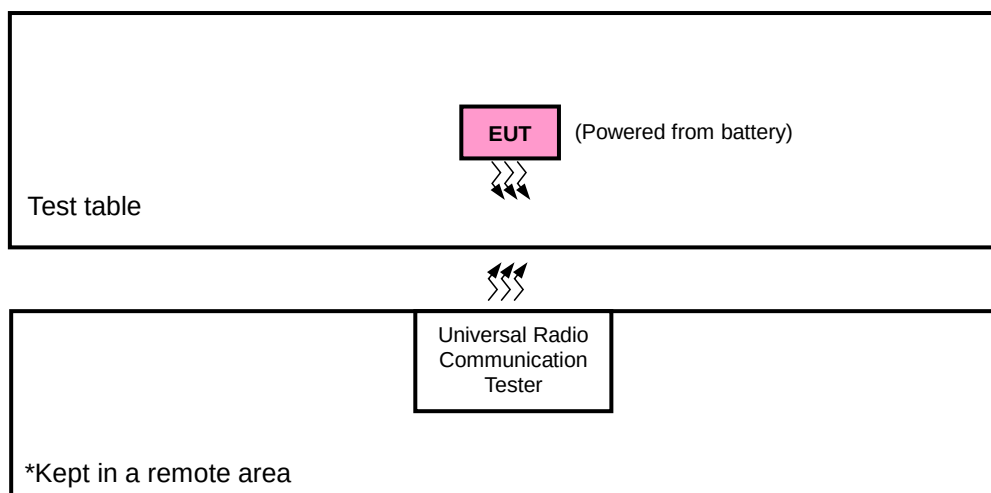
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.R.P. 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.

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	ERP	Radiated Emission
GSM	X-plane	X-axis
EDGE	X-plane	X-axis
WCDMA	X-plane	X-axis
LTE Band 5	X-plane	X-axis

GSM

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	128 to 251	128, 189, 251	GSM, EDGE
-	Frequency Stability	128 to 251	189	GSM, EDGE
-	Occupied Bandwidth	128 to 251	128, 189, 251	GSM, EDGE
-	Band Edge	128 to 251	128, 251	GSM, EDGE
-	Peak to Average Ratio	128 to 251	128, 189, 251	GSM, EDGE
-	Conducuted Emission	128 to 251	189	GSM, EDGE
-	Radiated Emission	128 to 251	189	GSM, EDGE

WCDMA

EUT Configure Mode	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
-	Conducuted Emission	4132 to 4233	4182	WCDMA
-	Radiated Emission	4132 to 4233	4182	WCDMA

LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 2 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 7 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
-	Frequency Stability	20407 to 20643	20525	1.4 MHz	QPSK	1 RB / 2 RB Offset
		20415 to 20635	20525	3 MHz	QPSK	1 RB / 7 RB Offset
		20425 to 20625	20525	5 MHz	QPSK	1 RB / 12 RB Offset
		20450 to 20600	20525	10 MHz	QPSK	1 RB / 24 RB Offset
-	Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
-	Band Edge	20407 to 20643	20407	1.4MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		20415 to 20635	20643	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		20425 to 20625	20415	3 MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		20450 to 20600	20635	3 MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		20407 to 20643	20425	5 MHz	QPSK	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		20415 to 20635	20625	5 MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
-	Peak to Average Ratio	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 2 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 7 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
-	Conducted Emission	20407 to 20643	20525	1.4 MHz	QPSK	1 RB / 2 RB Offset
		20415 to 20635	20525	3 MHz	QPSK	1 RB / 7 RB Offset
		20425 to 20625	20525	5 MHz	QPSK	1 RB / 12 RB Offset
		20450 to 20600	20525	10 MHz	QPSK	1 RB / 24 RB Offset
-	Radiated Emission	20450 to 20600	20525	10 MHz	QPSK	1 RB / 24 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Frequency Stability	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Occupied Bandwidth	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Band Edge	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Peak to Average Ratio	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Conducuted Emission	25 deg. C, 65 % RH	3.85 Vdc	Wayne Lin
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Gavin Wu

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

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 v02r02

ANSI/TIA/EIA-603-D 2010

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

EIRP / ERP Measurement:

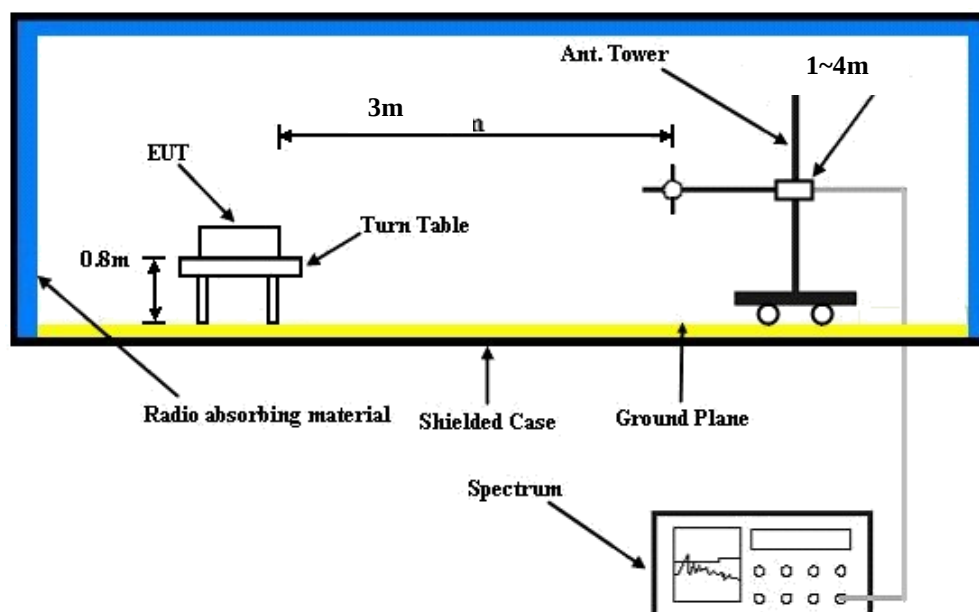
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, and 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$.

Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and 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.

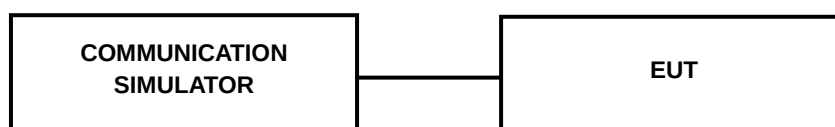
4.1.3 Test Setup

EIRP / ERP Measurement:



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

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM (GMSK, 1Tx-slot)	32.08	31.90	31.80
GPRS (GMSK, 1Tx-slot)	32.02	31.85	31.68
GPRS (GMSK, 2Tx-slot)	31.46	31.35	31.29
GPRS (GMSK, 3Tx-slot)	30.89	30.70	30.57
GPRS (GMSK, 4Tx-slot)	29.76	29.61	29.43
EDGE (8PSK, 1Tx-slot)	27.91	27.80	27.65
EDGE (8PSK, 2Tx-slot)	27.90	27.65	27.51
EDGE (8PSK, 3Tx-slot)	27.73	27.51	27.45
EDGE (8PSK, 4Tx-slot)	27.56	27.43	27.32

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.83	23.87	23.79
HSDPA Subtest-1	23.15	23.19	23.09
HSDPA Subtest-2	23.01	23.05	22.88
HSDPA Subtest-3	22.53	22.58	22.51
HSDPA Subtest-4	22.49	22.55	22.47
HSUPA Subtest-1	22.43	22.49	22.37
HSUPA Subtest-2	20.95	21.00	20.84
HSUPA Subtest-3	21.73	21.77	21.71
HSUPA Subtest-4	21.29	21.34	21.18
HSUPA Subtest-5	23.05	23.10	23.01

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20407	Mid Ch 20525	High Ch 20643		Low Ch 20407	Mid Ch 20525	High Ch 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	22.68	22.76	22.56	0	21.73	21.76	21.54	1
	1	2	22.77	22.82	22.71	0	21.79	21.87	21.64	1
	1	5	22.62	22.65	22.52	0	21.58	21.67	21.47	1
	3	0	22.65	22.69	22.49	0	21.61	21.68	21.55	1
	3	1	22.55	22.57	22.36	0	21.43	21.55	21.34	1
	3	3	22.30	22.39	22.24	0	21.30	21.36	21.18	1
	6	0	21.43	21.52	21.28	1	20.39	20.46	20.25	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20415	Mid Ch 20525	High Ch 20635		Low Ch 20415	Mid Ch 20525	High Ch 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	22.73	22.78	22.62	0	21.77	21.83	21.62	1
	1	7	22.80	22.86	22.67	0	21.83	21.90	21.71	1
	1	14	22.62	22.71	22.58	0	21.65	21.74	21.51	1
	8	0	21.71	21.77	21.57	1	20.70	20.78	20.65	2
	8	3	21.57	21.65	21.44	1	20.62	20.66	20.40	2
	8	7	21.41	21.50	21.38	1	20.47	20.53	20.34	2
	15	0	21.52	21.61	21.44	1	20.59	20.61	20.47	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20425	Mid Ch 20525	High Ch 20625		Low Ch 20425	Mid Ch 20525	High Ch 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	22.82	22.86	22.70	0	21.85	21.88	21.73	1
	1	12	22.89	22.92	22.73	0	21.91	21.97	21.81	1
	1	24	22.76	22.79	22.60	0	21.76	21.81	21.62	1
	12	0	21.81	21.87	21.70	1	20.80	20.87	20.75	2
	12	6	21.72	21.77	21.64	1	20.69	20.77	20.57	2
	12	13	21.61	21.66	21.53	1	20.57	20.63	20.47	2
	25	0	21.71	21.73	21.59	1	20.66	20.72	20.52	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20450	Mid Ch 20525	High Ch 20600		Low Ch 20450	Mid Ch 20525	High Ch 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
5 / 10M	1	0	22.88	22.91	22.79	0	21.91	21.95	21.80	1
	1	24	22.93	22.97	22.88	0	21.99	22.02	21.83	1
	1	49	22.80	22.86	22.74	0	21.84	21.88	21.73	1
	25	0	21.91	21.96	21.83	1	20.91	20.96	20.81	2
	25	12	21.82	21.87	21.77	1	20.82	20.85	20.71	2
	25	25	21.74	21.78	21.68	1	20.73	20.75	20.63	2
	50	0	21.80	21.84	21.72	1	20.79	20.82	20.65	2

ERP Power (dBm)

GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	128	824.2	-2.56	32.62	27.91	618.02	H
	189	836.4	-2.03	32.52	28.34	682.34	
	251	848.8	-2.47	32.65	28.03	635.33	
	128	824.2	-13.69	32.76	16.92	49.20	V
	189	836.4	-13.03	32.39	17.21	52.60	
	251	848.8	-13.78	32.54	16.61	45.81	

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	128	824.2	-7.92	32.62	22.55	179.89	H
	189	836.4	-7.70	32.52	22.67	184.93	
	251	848.8	-8.32	32.65	22.18	165.20	
	128	824.2	-18.21	32.76	12.40	17.38	V
	189	836.4	-17.73	32.39	12.51	17.82	
	251	848.8	-18.19	32.54	12.20	16.60	

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	4132	826.4	-12.51	32.62	17.96	62.52	H
	4182	836.4	-12.62	32.52	17.75	59.57	
	4233	846.6	-12.92	32.65	17.58	57.28	
	4132	826.4	-22.92	32.76	7.69	5.87	V
	4182	836.4	-22.78	32.39	7.46	5.57	
	4233	846.6	-23.25	32.54	7.14	5.18	

LTE Band 5							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20407	824.7	-12.82	32.62	17.65	58.21	H
	20525	836.5	-12.65	32.52	17.72	59.16	
	20643	848.3	-12.91	32.65	17.59	57.41	
	20407	824.7	-21.86	32.76	8.75	7.50	V
	20525	836.5	-21.46	32.39	8.78	7.55	
	20643	848.3	-21.77	32.54	8.62	7.28	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	20407	824.7	-13.88	32.62	16.59	45.60	H
	20525	836.5	-13.72	32.52	16.65	46.24	
	20643	848.3	-13.98	32.65	16.52	44.87	
	20407	824.7	-22.87	32.76	7.74	5.94	V
	20525	836.5	-22.43	32.39	7.81	6.04	
	20643	848.3	-22.72	32.54	7.67	5.85	

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20415	825.5	-12.77	32.62	17.70	58.88	H
	20525	836.5	-12.58	32.52	17.79	60.12	
	20635	847.5	-12.88	32.65	17.62	57.81	
	20415	825.5	-21.80	32.76	8.81	7.60	V
	20525	836.5	-21.35	32.39	8.89	7.74	
	20635	847.5	-21.71	32.54	8.68	7.38	
Channel Bandwidth: 3 MHz / 16QAM							
X	20415	825.5	-13.76	32.62	16.71	46.88	H
	20525	836.5	-13.51	32.52	16.86	48.53	
	20635	847.5	-13.92	32.65	16.58	45.50	
	20415	825.5	-22.79	32.76	7.82	6.05	V
	20525	836.5	-22.30	32.39	7.94	6.22	
	20635	847.5	-22.64	32.54	7.75	5.96	

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20425	826.5	-12.70	32.62	17.77	59.84	H
	20525	836.5	-12.50	32.52	17.87	61.24	
	20625	846.5	-12.79	32.65	17.71	59.02	
	20425	826.5	-21.74	32.76	8.87	7.71	V
	20525	836.5	-21.21	32.39	9.03	8.00	
	20625	846.5	-21.59	32.54	8.80	7.59	
Channel Bandwidth: 5 MHz / 16QAM							
X	20425	826.5	-13.71	32.62	16.76	47.42	H
	20525	836.5	-13.45	32.52	16.92	49.20	
	20625	846.5	-13.81	32.65	16.69	46.67	
	20425	826.5	-22.72	32.76	7.89	6.15	V
	20525	836.5	-22.25	32.39	7.99	6.30	
	20625	846.5	-22.57	32.54	7.82	6.05	

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20450	829.0	-12.61	32.62	17.86	61.09	H
	20525	836.5	-12.44	32.52	17.93	62.09	
	20600	844.0	-12.74	32.65	17.76	59.70	
	20450	829.0	-21.62	32.76	8.99	7.93	V
	20525	836.5	-21.18	32.39	9.06	8.05	
	20600	844.0	-21.48	32.54	8.91	7.78	
Channel Bandwidth: 10 MHz / 16QAM							
X	20450	829.0	-13.62	32.62	16.85	48.42	H
	20525	836.5	-13.37	32.52	17.00	50.12	
	20600	844.0	-13.74	32.65	16.76	47.42	
	20450	829.0	-22.61	32.76	8.00	6.31	V
	20525	836.5	-22.19	32.39	8.05	6.38	
	20600	844.0	-22.48	32.54	7.91	6.18	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

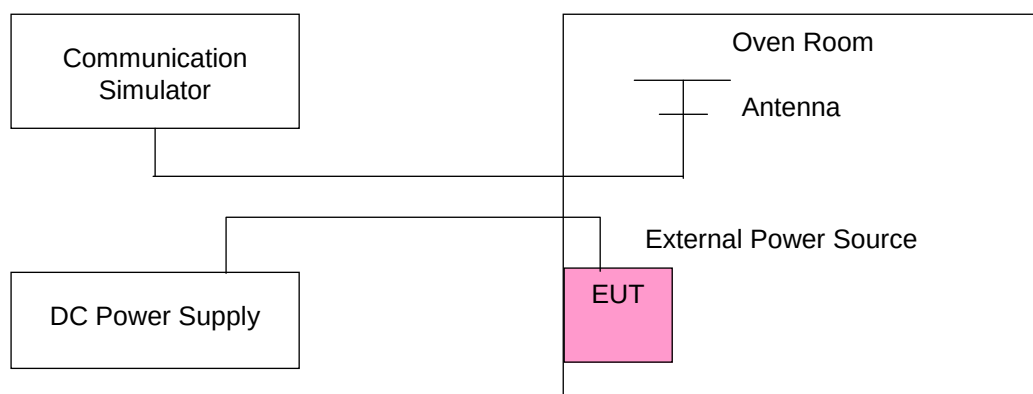
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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 DC 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 ± 0.5 °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

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (ppm)							Limit (ppm)
	GSM	EDGE	WCDMA	LTE Band 5				
				1.4 MHz	3 MHz	5 MHz	10 MHz	
3.85	0.0002	0.001	0.003	0.000956366	0.00167364	0.000239091	0.003466826	2.5
3.6	0.0031	0.002	0.003	0.000239091	0.00334728	0.001912732	0.002151823	2.5
4.4	0.0035	0.001	0.002	0.001195457	0.00167364	0.000119546	0.001554094	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.4 Vdc.

Frequency Error vs. Temperature

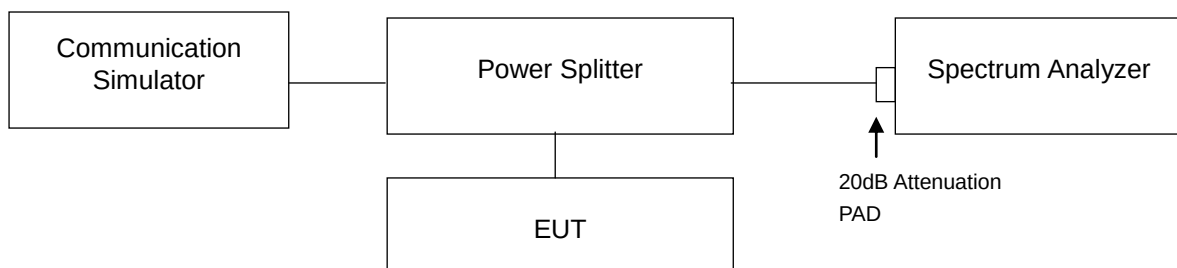
Temp. (°C)	Frequency Error (ppm)							Limit (ppm)
	GSM	EDGE	WCDMA	LTE Band 5				
				1.4 MHz	3 MHz	5 MHz	10 MHz	
-30	0.0038	0.0017	0.004	0.000597729	0.001315003	0.004064555	0.003705918	2.5
-20	0.0039	0.0024	0.003	0.002749552	0.001075912	0.000478183	0.001434549	2.5
-10	0.0043	0.0005	0.001	0.000119546	0.001315003	0.001554094	0.000956366	2.5
0	0.0030	0.0036	0.002	0.000478183	0.003825463	0.000478183	0.001315003	2.5
10	0.0032	0.0041	0.003	0.00334728	0.000597729	0.002390915	0.002271369	2.5
20	-0.0047	-0.0036	-0.001	-0.002271369	-0.002032277	-0.000119546	-0.00167364	2.5
30	-0.0022	-0.0044	-0.001	-0.002869097	-0.001075912	-0.001793186	-0.003227735	2.5
40	-0.0033	-0.0045	-0.003	-0.003586372	-0.003825463	-0.000956366	-0.000478183	2.5
50	-0.0010	-0.0020	-0.001	-0.002988643	-0.002749552	-0.001075912	-0.002151823	2.5
60	-0.0001	-0.0031	-0.003	-0.004542738	-0.004064555	-0.002630006	-0.00251046	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

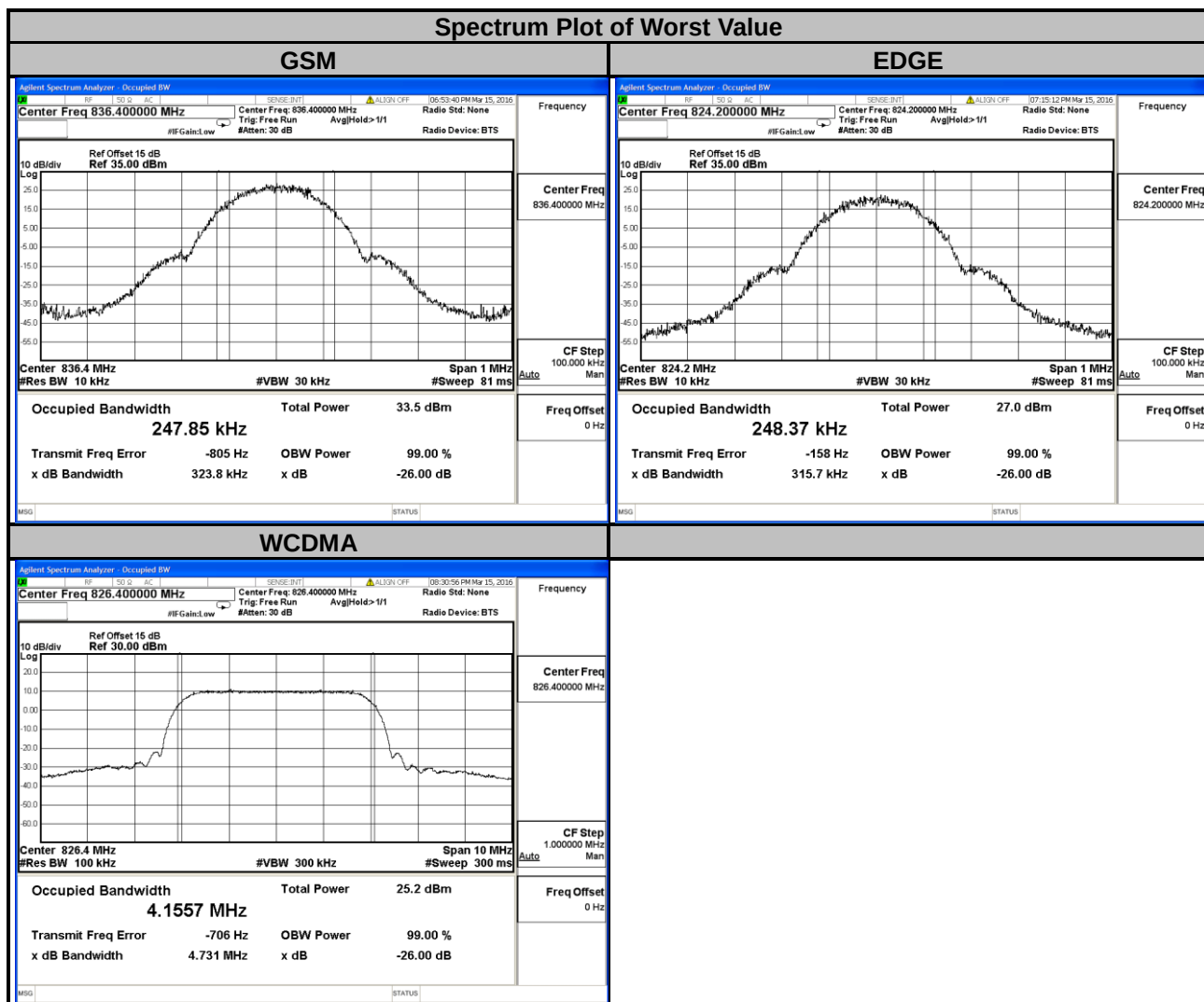
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.3.2 Test Setup

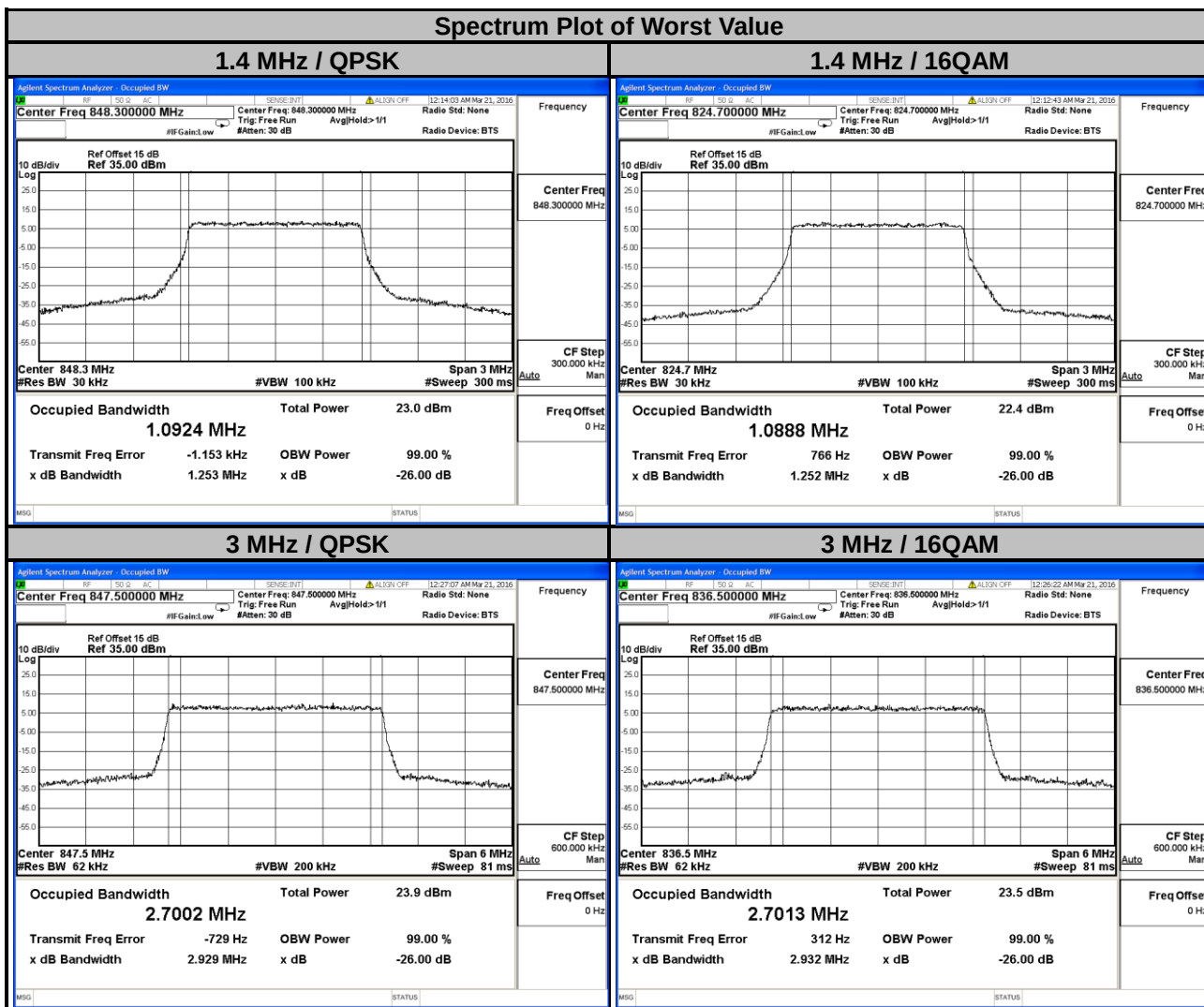


4.3.3 Test Result

Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
		GSM	EDGE			WCDMA
128	824.2	245.79	248.37	4132	826.4	4.1557
189	836.4	247.85	245.20	4182	836.4	4.1460
251	848.8	245.02	247.56	4233	846.6	4.1520



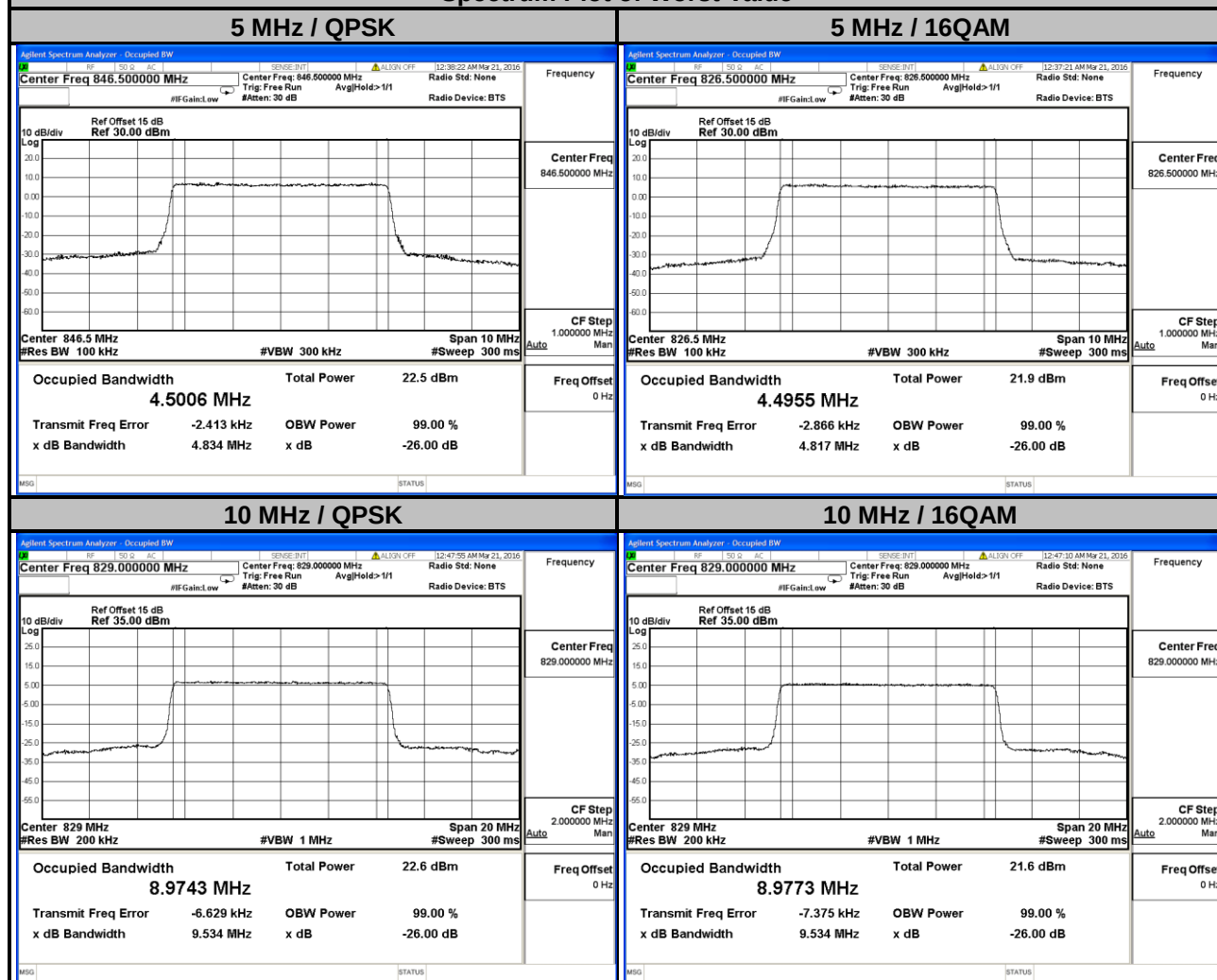
LTE Band 5							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.0908	1.0888	20415	825.5	2.6996	2.7002
20525	836.5	1.0904	1.0875	20525	836.5	2.6986	2.7013
20643	848.3	1.0924	1.0880	20635	847.5	2.7002	2.7009



LTE Band 5

Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.4973	4.4955	20450	829.0	8.9743	8.9773
20525	836.5	4.4980	4.4900	20525	836.5	8.9509	8.9413
20625	846.5	4.5006	4.4951	20600	844.0	8.9662	8.9672

Spectrum Plot of Worst Value

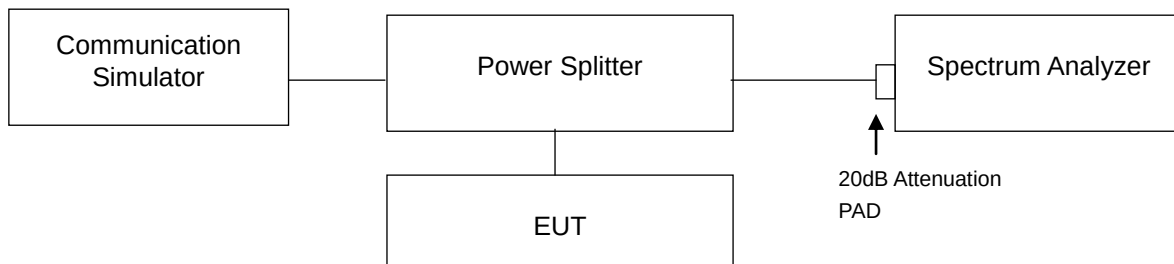


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

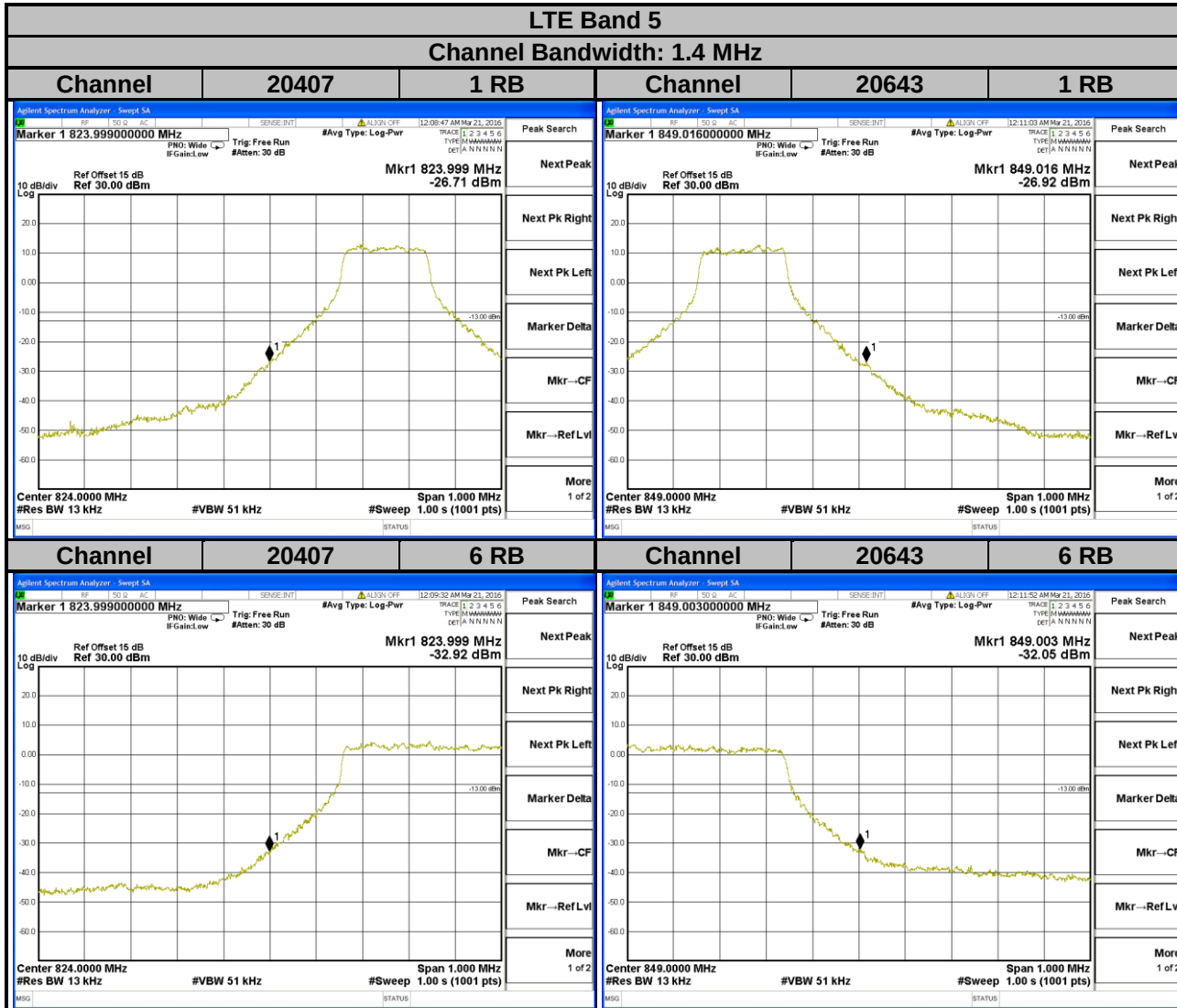
Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

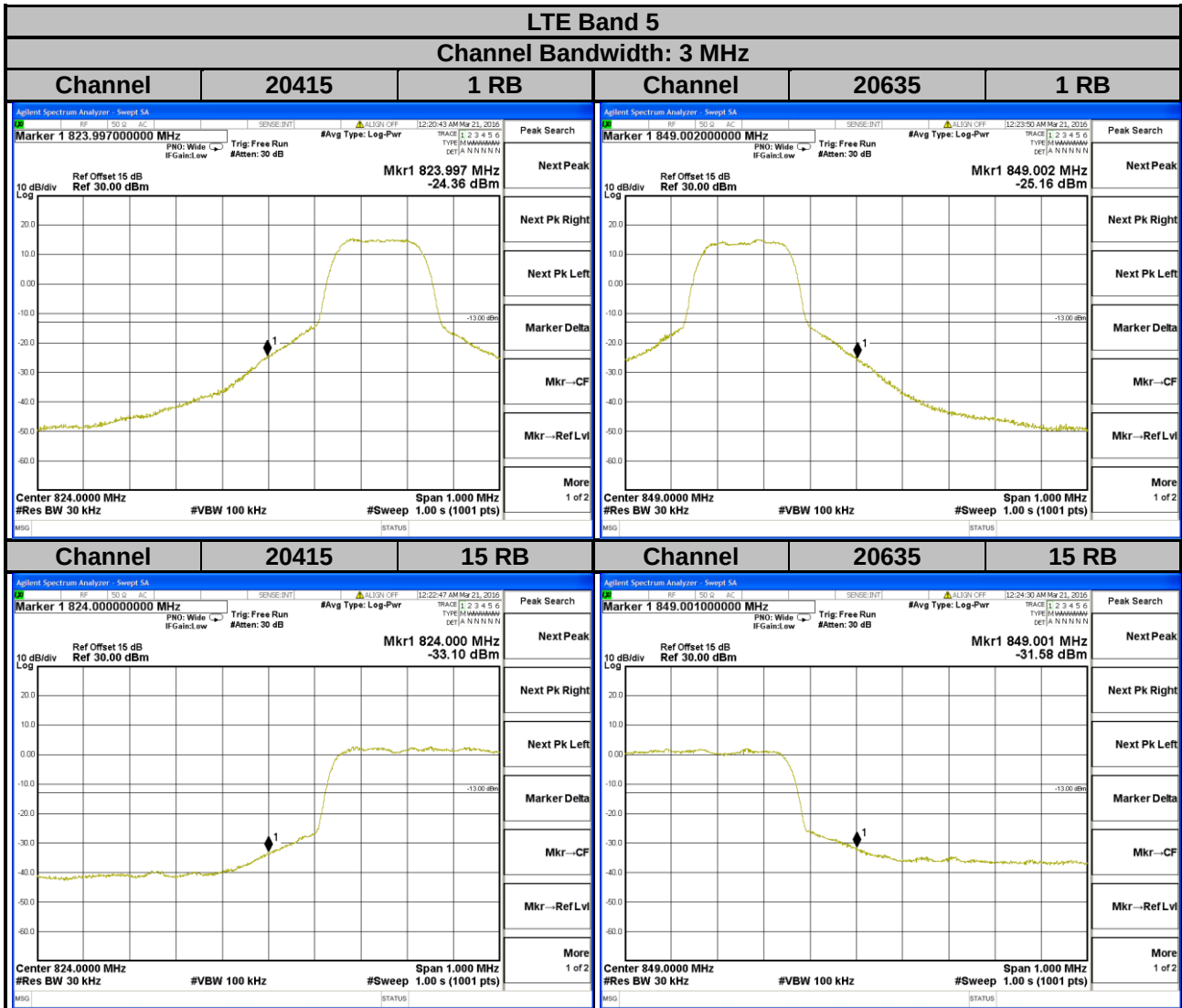
4.4.2 Test Setup

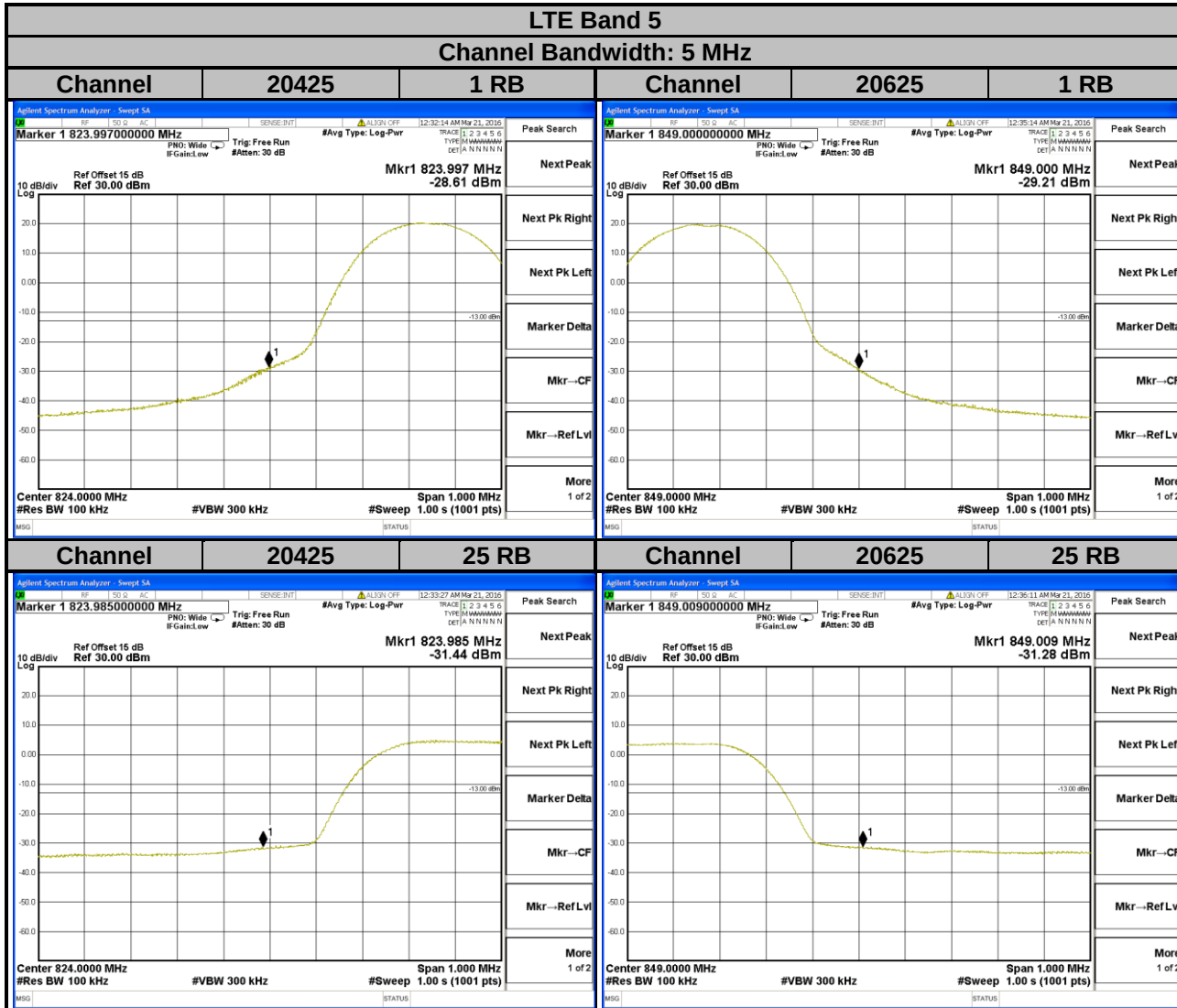


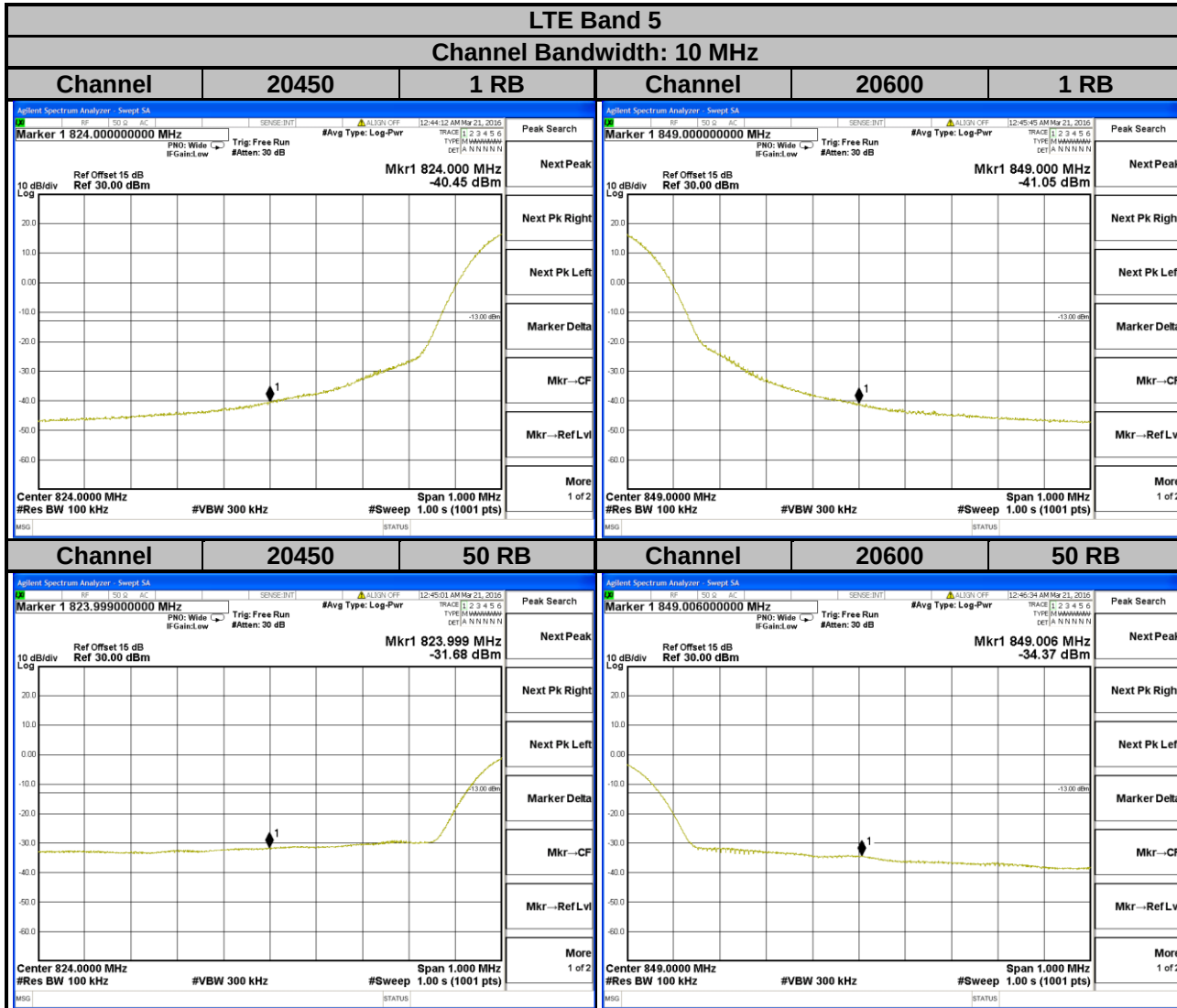
4.4.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 10 kHz and VB of the spectrum is 30 kHz (GSM/GPRS/EDGE).
- The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (WCDMA).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 13 kHz and VB of the spectrum is 51 kHz (LTE Bandwidth 1.4 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 30 kHz and VB of the spectrum is 100 kHz (LTE Bandwidth 3 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (LTE Bandwidth 5 MHz/10 MHz).
- Record the max trace plot into the test report.







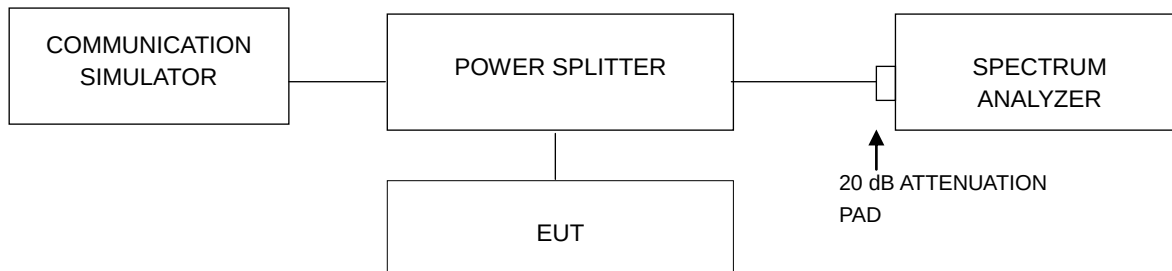


4.5 Peak to Average Ratio

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

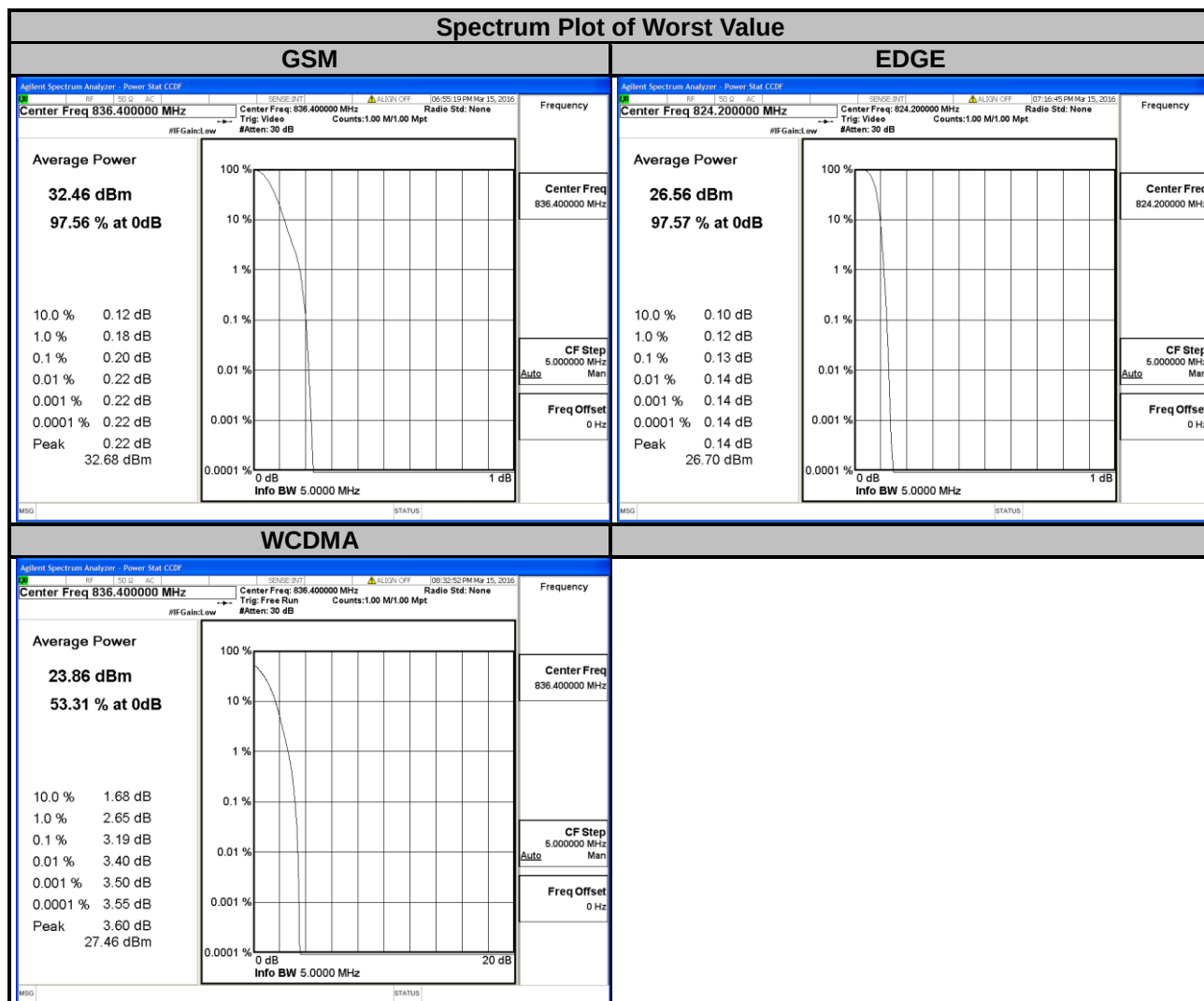


4.5.3 Test Procedures

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	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		GSM	EDGE			
128	824.2	0.18	0.13	4132	826.4	3.08
189	836.4	0.20	0.13	4182	836.4	3.19
251	848.8	0.17	0.13	4233	846.6	3.08

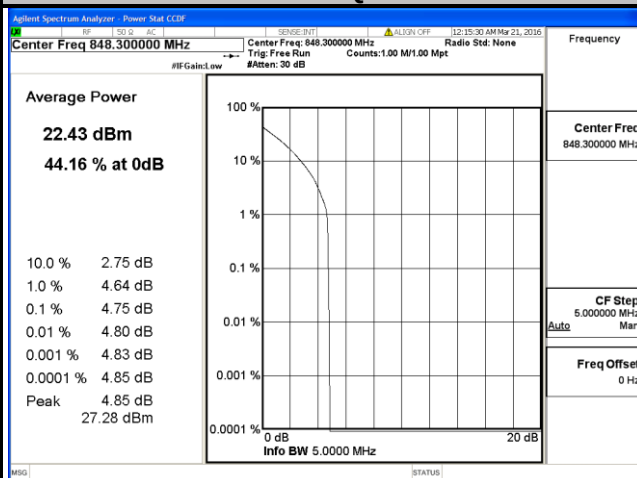


LTE Band 5

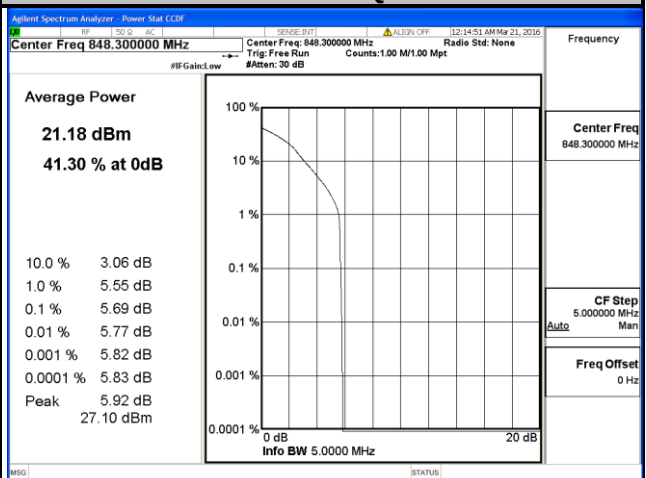
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	4.31	5.10	20415	825.5	4.12	4.94
20525	836.5	4.42	5.44	20525	836.5	4.54	5.37
20643	848.3	4.75	5.69	20635	847.5	4.79	5.53

Spectrum Plot of Worst Value

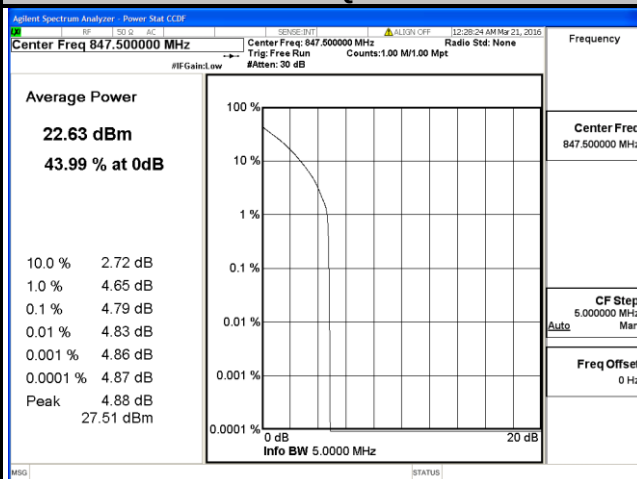
1.4 MHz / QPSK



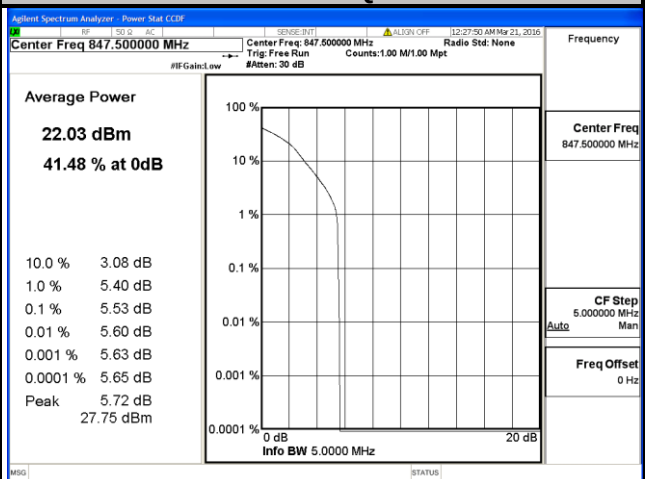
1.4 MHz / 16QAM



3 MHz / QPSK



3 MHz / 16QAM

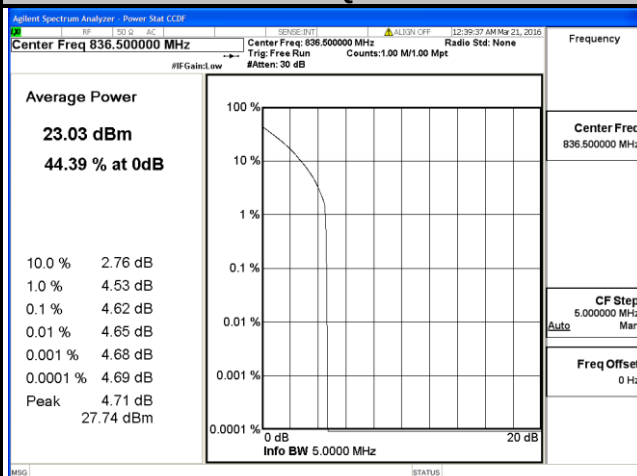


LTE Band 5

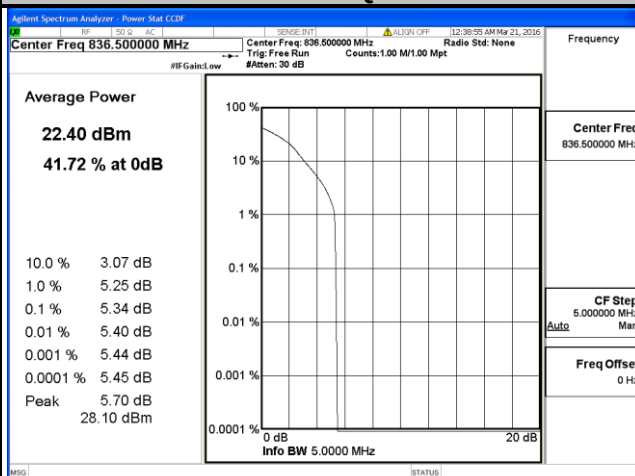
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.07	4.81	20450	829.0	4.12	4.84
20525	836.5	4.62	5.34	20525	836.5	4.90	5.67
20625	846.5	4.49	5.26	20600	844.0	3.85	4.66

Spectrum Plot of Worst Value

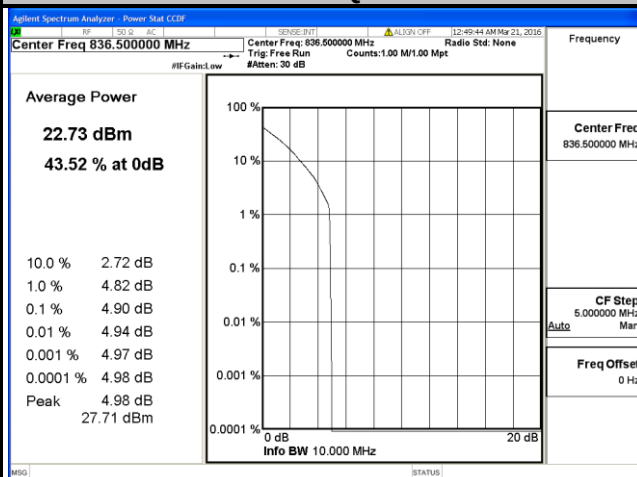
5 MHz / QPSK



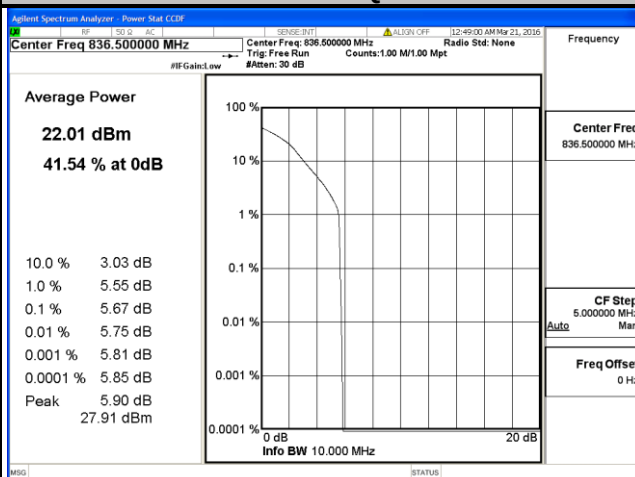
5 MHz / 16QAM



10 MHz / QPSK



10 MHz / 16QAM

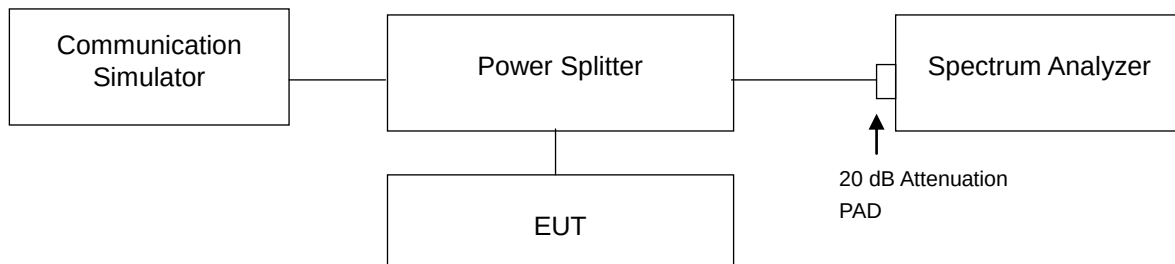


4.6 Conducted Spurious Emissions

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 -13 dBm.

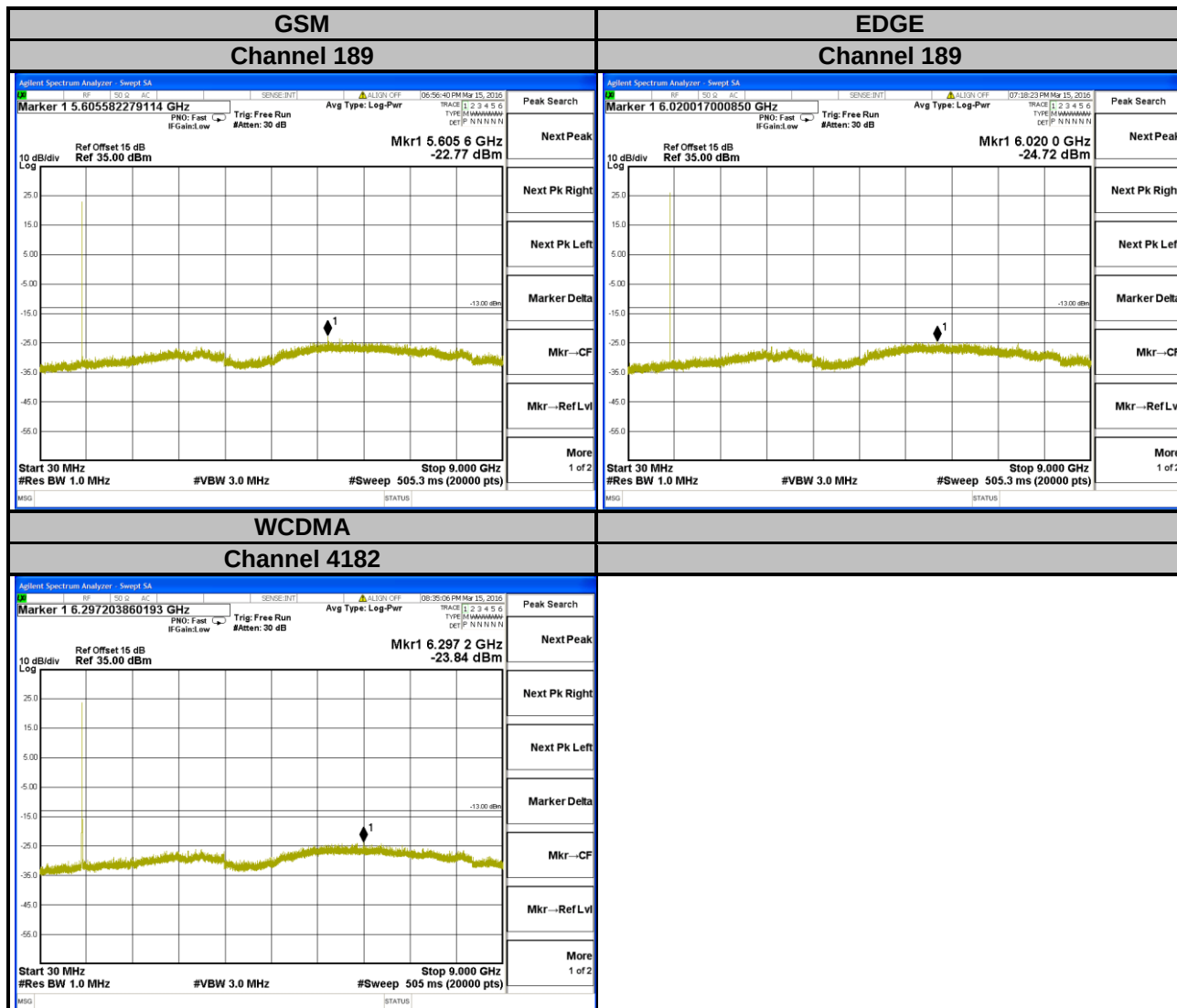
4.6.2 Test Setup



4.6.3 Test Procedure

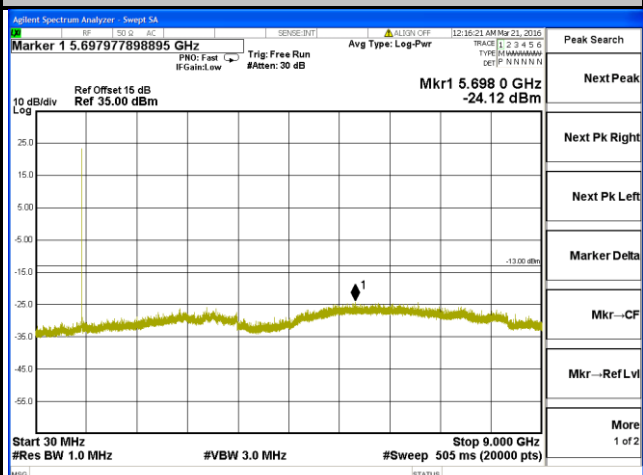
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 9 GHz. 20 dB attenuation pad is connected with spectrum. RBW=1 MHz and VBW=3 MHz is used for conducted emission measurement.

4.6.4 Test Results

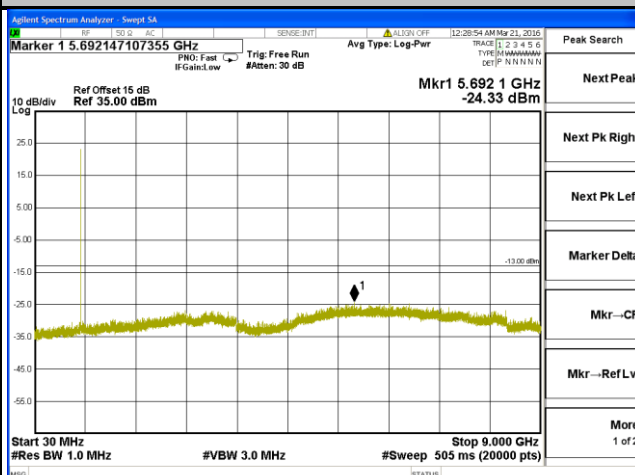


LTE Band 5 Channel 20525

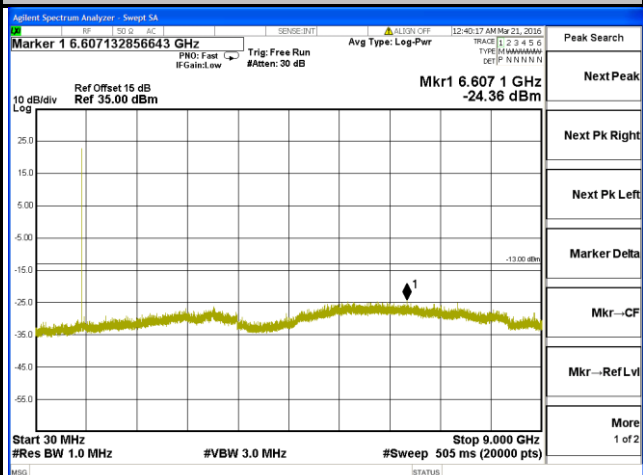
Channel Bandwidth: 1.4 MHz



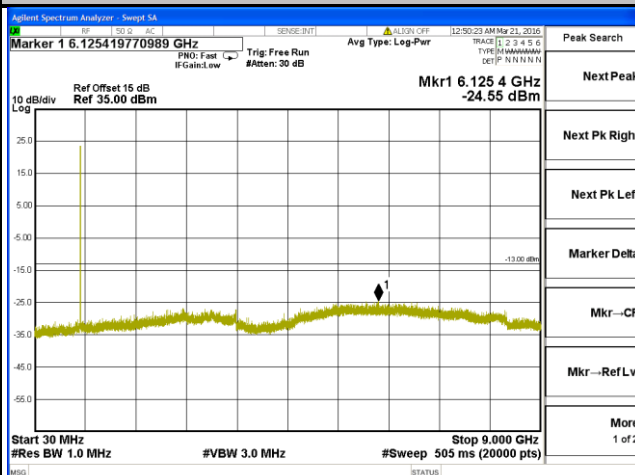
Channel Bandwidth: 3 MHz



Channel Bandwidth: 5 MHz



Channel Bandwidth: 10 MHz



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 is equal to -13 dBm.

4.7.2 Test Procedure

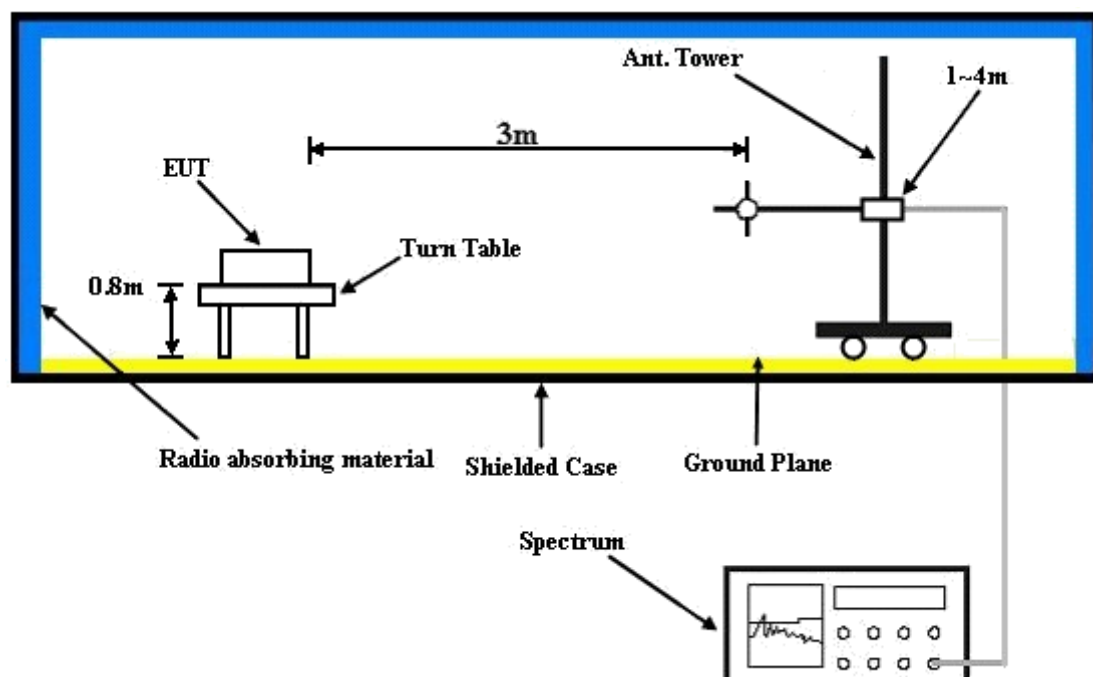
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



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

4.7.5 Test Results

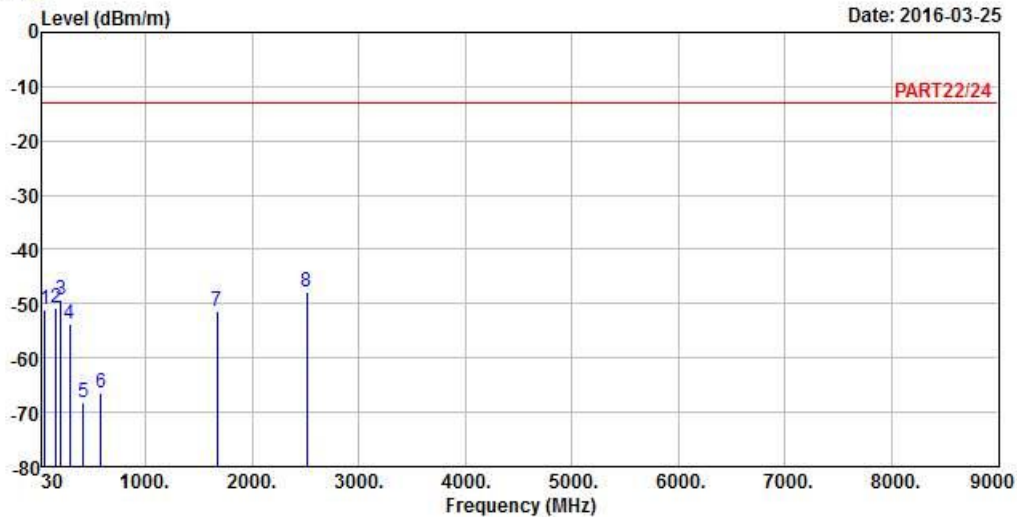
GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remak : GSM 850 Link
Tested by: Gavin Wu

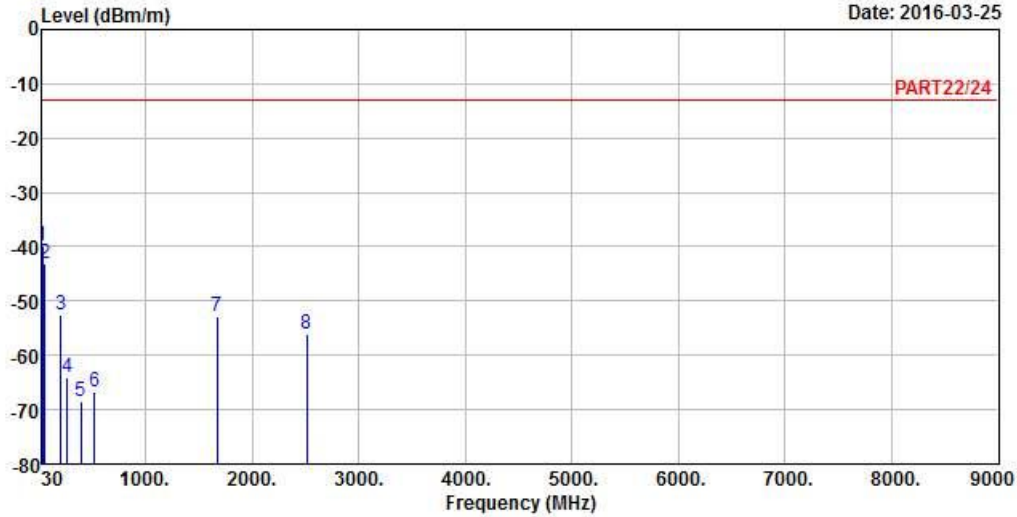
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	56.19	-51.11	-44.51	-13.00	-38.11	-6.60	Peak
2	159.98	-50.81	-45.97	-13.00	-37.81	-4.84	Peak
3	207.51	-49.34	-41.63	-13.00	-36.34	-7.71	Peak
4	289.96	-53.72	-46.91	-13.00	-40.72	-6.81	Peak
5	413.15	-68.20	-62.36	-13.00	-55.20	-5.84	Peak
6	583.87	-66.50	-65.06	-13.00	-53.50	-1.44	Peak
7	1672.80	-51.44	-36.76	-13.00	-38.44	-14.68	Peak
8 pp	2509.20	-47.79	-36.88	-13.00	-34.79	-10.91	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remak : GSM 850 Link
Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	30.00	-39.74	-40.12	-13.00	-26.74	0.38	Peak
2	54.25	-43.01	-36.94	-13.00	-30.01	-6.07	Peak
3	208.48	-52.58	-44.91	-13.00	-39.58	-7.67	Peak
4	266.68	-64.03	-57.70	-13.00	-51.03	-6.33	Peak
5	395.69	-68.39	-62.42	-13.00	-55.39	-5.97	Peak
6	519.85	-66.62	-62.70	-13.00	-53.62	-3.92	Peak
7	1672.80	-52.76	-38.08	-13.00	-39.76	-14.68	Peak
8	2509.20	-56.06	-45.15	-13.00	-43.06	-10.91	Peak

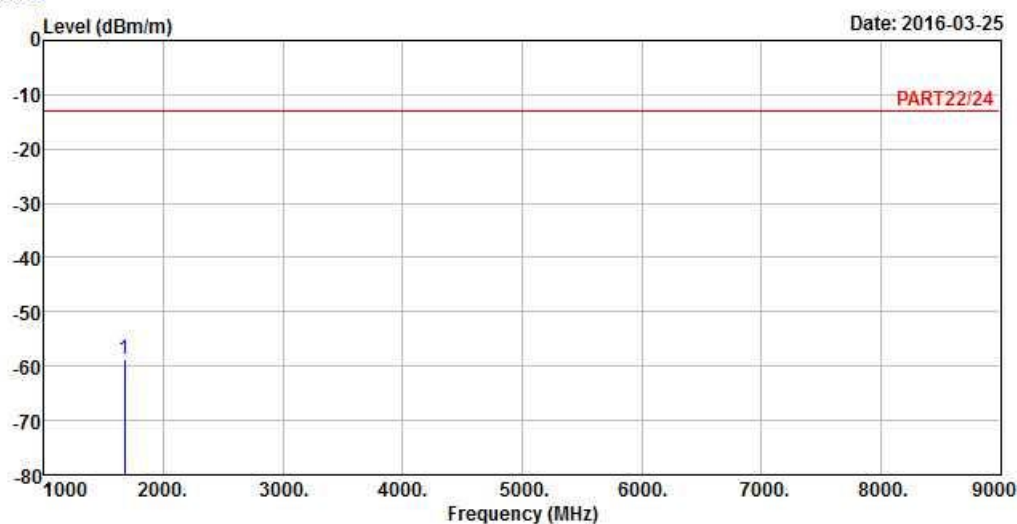
EDGE:



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Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 3m HORIZONTAL
 Remak : EDGE 850 Link
 Tested by: Gavin Wu

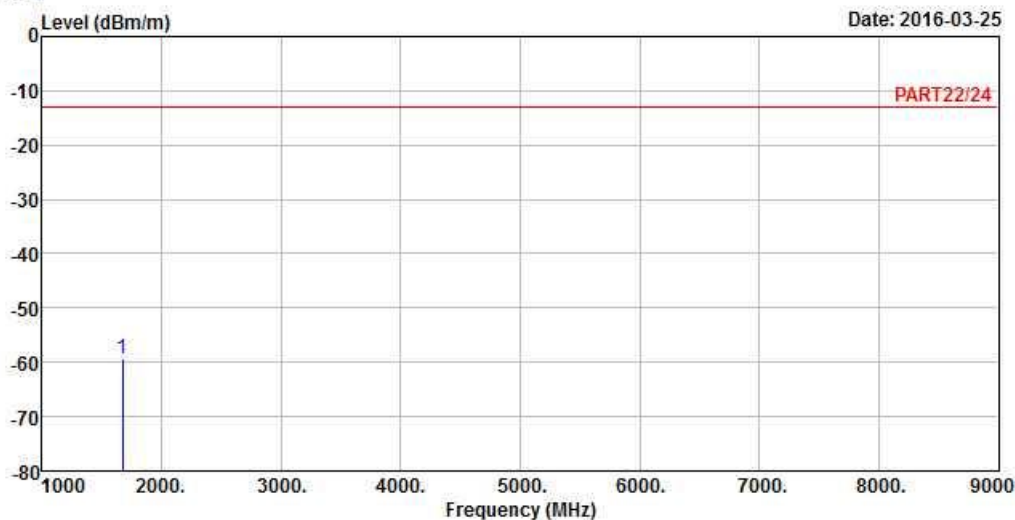
			Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 pp 1672.80	-58.79	-44.11	-13.00	-45.79	-14.68	Peak	



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Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 3m VERTICAL
 Remak : EDGE 850 Link
 Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-59.25	-44.57	-13.00	-46.25	-14.68	Peak

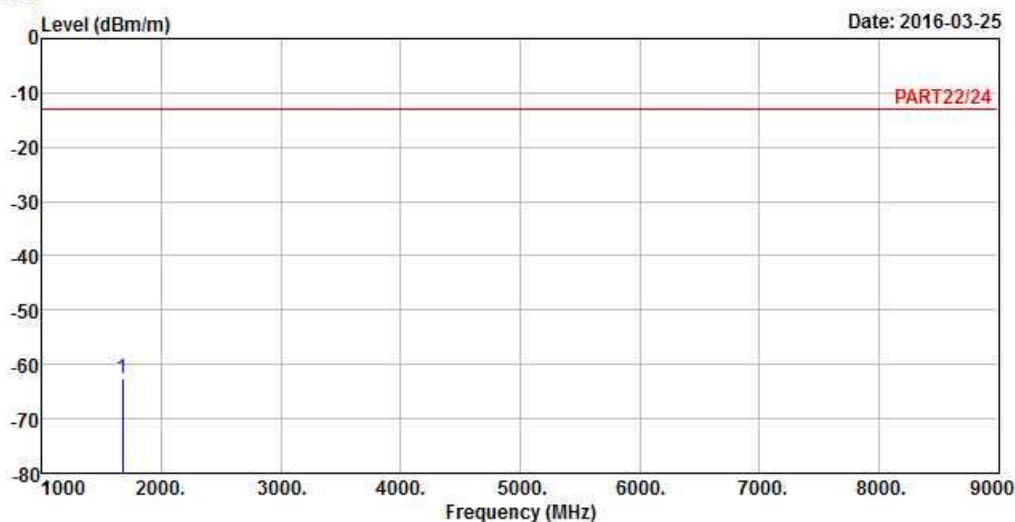
WCDMA:



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Data: 3



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remak : WCDMA Band V Link
Tested by: Gavin Wu

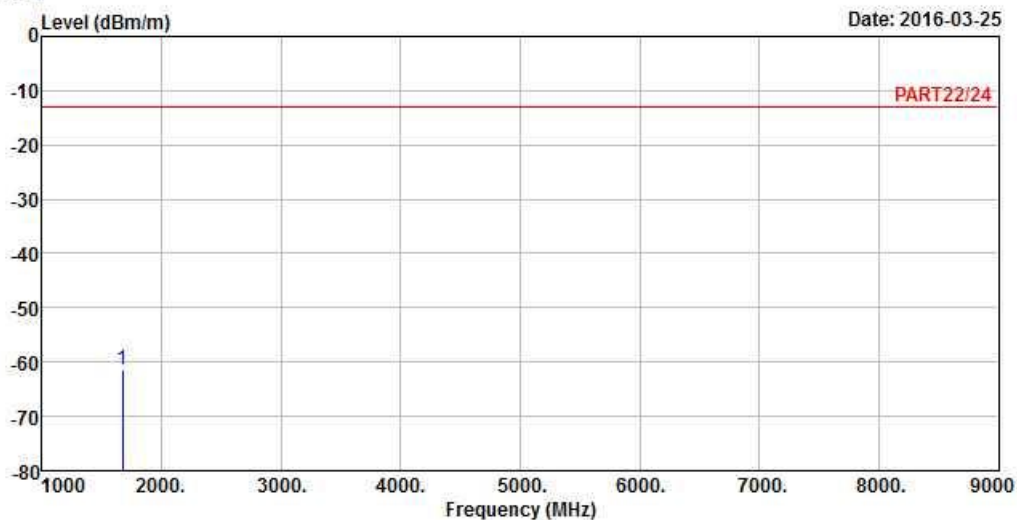
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-62.59	-47.91	-13.00	-49.59	-14.68	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 3m VERTICAL
 Remak : WCDMA Band V Link
 Tested by: Gavin Wu

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-61.35	-46.67	-13.00	-48.35	-14.68	Peak

LTE Band 5

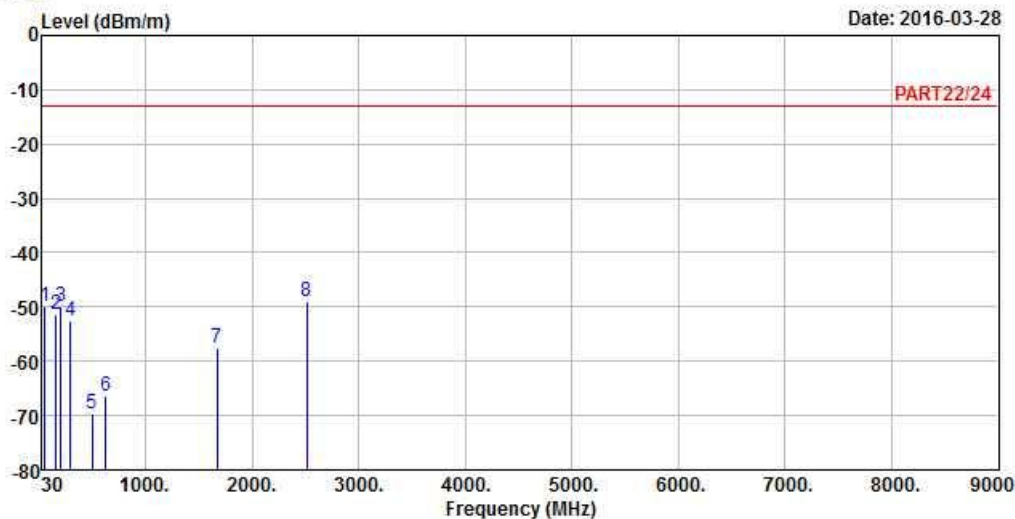
Channel Bandwidth: 10 MHz / QPSK



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Data: 5



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remak : LTE Band V QPSK_10M Link

Tested by: Gavin Wu

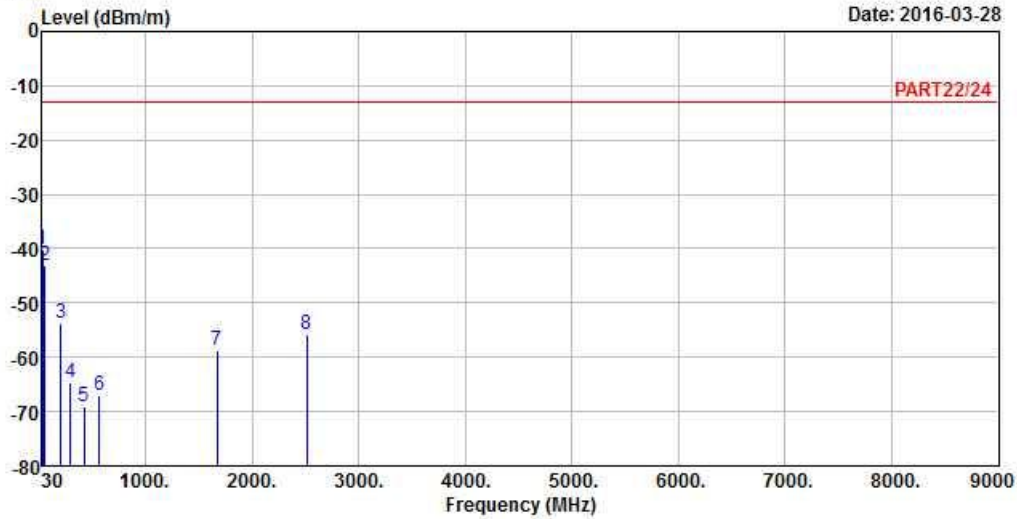
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	55.22	-49.80	-43.46	-13.00	-36.80	-6.34	Peak
2	159.98	-51.37	-46.53	-13.00	-38.37	-4.84	Peak
3	207.51	-49.91	-42.20	-13.00	-36.91	-7.71	Peak
4	291.90	-52.59	-45.74	-13.00	-39.59	-6.85	Peak
5	497.54	-69.70	-65.03	-13.00	-56.70	-4.67	Peak
6	623.64	-66.28	-65.46	-13.00	-53.28	-0.82	Peak
7	1673.00	-57.53	-42.85	-13.00	-44.53	-14.68	Peak
8 pp	2509.50	-48.91	-38.00	-13.00	-35.91	-10.91	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remak : LTE Band V QPSK_10M Link
Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	30.00	-40.21	-40.59	-13.00	-27.21	0.38	Peak
2	57.16	-42.99	-36.12	-13.00	-29.99	-6.87	Peak
3	207.51	-53.61	-45.90	-13.00	-40.61	-7.71	Peak
4	298.69	-64.69	-57.70	-13.00	-51.69	-6.99	Peak
5	419.94	-69.14	-63.35	-13.00	-56.14	-5.79	Peak
6	567.38	-66.91	-64.79	-13.00	-53.91	-2.12	Peak
7	1673.00	-58.82	-44.14	-13.00	-45.82	-14.68	Peak
8	2509.50	-55.69	-44.78	-13.00	-42.69	-10.91	Peak

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.

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

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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