

FCC Test Report

(PART 22)

Report No.: RF151221C02

FCC ID: NM82PS6500

Test Model: 2PS6500

Received Date: Dec. 21, 2015

Test Date: Jan. 20, 2016 ~ Jan. 29, 2016

Issued Date: Feb. 25, 2016

Applicant: HTC Corporation

Address: 1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
(R.O.C)

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Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,
R.O.C



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Release Control Record

Issue No.	Description	Date Issued
RF151221C02	Original Release	Feb. 25, 2016

1 Certificate of Conformity

Product: Smartphone

Brand: HTC

Test Model: 2PS6500

Sample Status: Production Unit

Applicant: HTC Corporation

Test Date: Jan. 20, 2016 ~ Jan. 29, 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 :

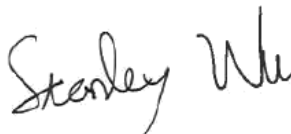


Date:

Feb. 25, 2016

Ivonne Wu / Supervisor

Approved by :



Date:

Feb. 25, 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 -28.23 dB at 192.81 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	2.0153 dB
	200 MHz ~1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 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 ETS-Lindgren	3117	00143293	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
Bluetooth Tester	CBT	100980	Apr. 27, 2015	Apr. 26, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier Agilent	310N	187226	Jun. 29, 2015	Jun. 28, 2016
Preamplifier Agilent	83017A	MY39501357	Jun. 29, 2015	Jun. 28, 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 ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 27, 2015	Jun. 26, 2016
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 27, 2015	Jun. 26, 2016
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Radio Communication Analyzer Anritsu	MT8820C	6201240432	Jul. 06, 2015	Jul. 05, 2017

- 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 HsinTien Chamber 1.
 3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
 4. The FCC Site Registration No. is 149147.
 5. The IC Site Registration No. is IC7450I-1.

3 General Information

3.1 General Description of EUT

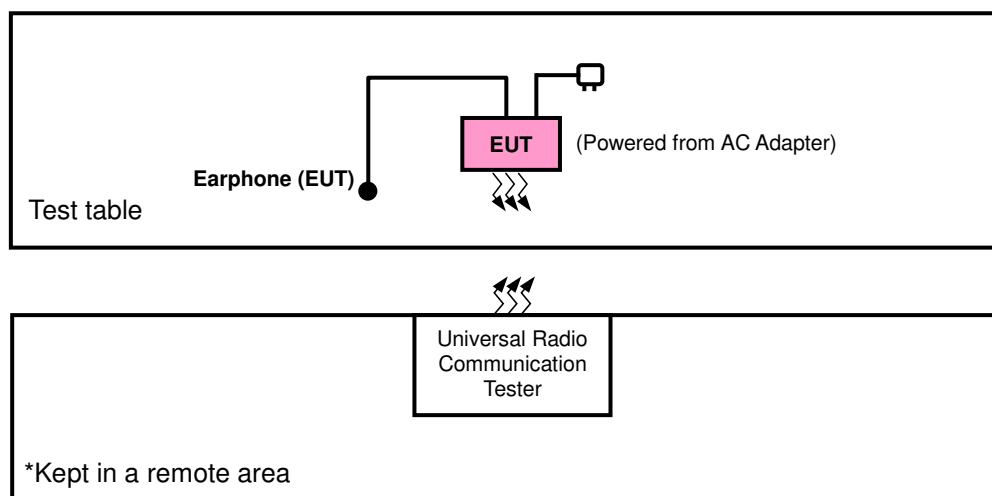
Product	Smartphone	
Brand	HTC	
Test Model	2PS6500	
Status of EUT	Production Unit	
Power Supply Rating	5.0 Vdc (adapter or host equipment) 3.85 Vdc (Li-ion battery)	
Modulation Type	GSM/GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	BPSK
	CDMA	QPSK, OPQKS, HPSK
	LTE	QPSK, 16QAM
Frequency Range	GSM/GPRS/EDGE	824.2 ~ 848.8 MHz
	WCDMA	826.4 ~ 846.6 MHz
	CDMA	824.7 ~ 848.31 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	737.56 mW
	EDGE	239.44 mW
	WCDMA	70.63 mW
	CDMA	107.20 mW
	LTE 5 (Channel Bandwidth: 1.4 MHz)	70.15 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	68.05 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	72.44 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	73.99 mW
Emission Designator	GSM/GPRS	246KGXW
	EDGE	247KG7W
	WCDMA	4M15F9W
	CDMA	1M28F9W
	LTE 5 (Channel Bandwidth: 1.4 MHz)	1M09G7D
	LTE 5 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE 5 (Channel Bandwidth: 5 MHz)	4M49G7D
	LTE 5 (Channel Bandwidth: 10 MHz)	8M97G7D
Antenna Type	Fixed Internal Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

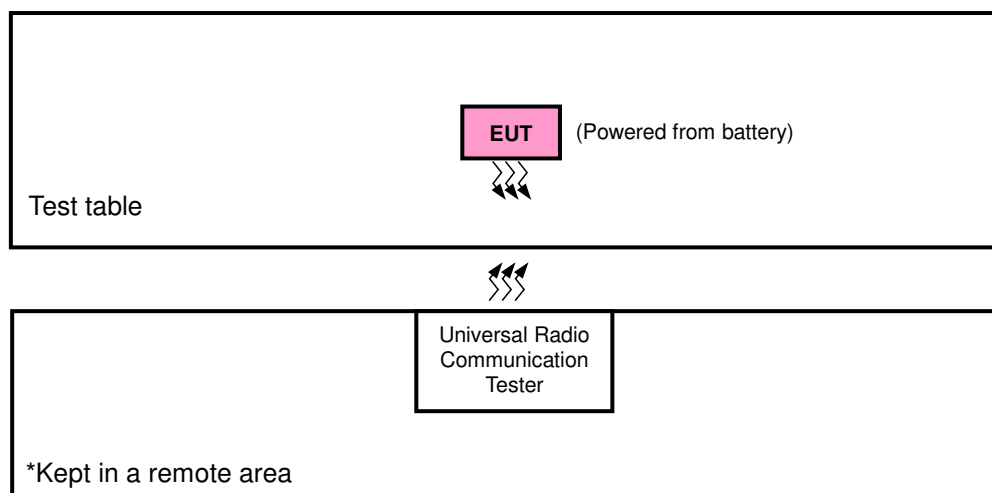
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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	Y-plane	Y-axis
EDGE	Y-plane	Y-axis
WCDMA	Y-plane	Y-axis
CDMA	Y-plane	X-axis
LTE Band 5	Y-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

CDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	1013 to 777	1013, 384, 777	1xRTT
-	Frequency Stability	1013 to 777	384	1xRTT
-	Occupied Bandwidth	1013 to 777	1013, 384, 777	1xRTT
-	Band Edge	1013 to 777	1013, 777	1xRTT
-	Peak to Average Ratio	1013 to 777	1013, 384, 777	1xRTT
-	Conducuted Emission	1013 to 777	384	1xRTT
-	Radiated Emission	1013 to 777	384	1xRTT

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	3 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 14 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
-	Frequency Stability	20407 to 20643	20525	1.4 MHz	QPSK	3 RB / 0 RB Offset
		20415 to 20635	20525	3 MHz	QPSK	1 RB / 14 RB Offset
		20425 to 20625	20525	5 MHz	QPSK	1 RB / 24 RB Offset
		20450 to 20600	20525	10 MHz	QPSK	1 RB / 49 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
			20643	1.4MHz	QPSK	6 RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK	1 RB / 5 RB Offset
			20635	3 MHz	QPSK	1 RB / 14 RB Offset
		20425 to 20626	20425	5 MHz	QPSK	15 RB / 0 RB Offset
			20600	5 MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450	10 MHz	QPSK	1 RB / 24 RB Offset
			20600	10 MHz	QPSK	25 RB / 0 RB Offset
		20450 to 20600	20450	10 MHz	QPSK	1 RB / 0 RB Offset
			20600	10 MHz	QPSK	50 RB / 0 RB Offset
		20450 to 20600	20450	10 MHz	QPSK	1 RB / 49 RB Offset
			20600	10 MHz	QPSK	50 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Peak to Average Ratio	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	3 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 14 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
-	Conducted Emission	20407 to 20643	20525	1.4 MHz	QPSK	3 RB / 0 RB Offset
		20415 to 20635	20525	3 MHz	QPSK	1 RB / 14 RB Offset
		20425 to 20625	20525	5 MHz	QPSK	1 RB / 24 RB Offset
		20450 to 20600	20525	10 MHz	QPSK	1 RB / 49 RB Offset
-	Radiated Emission	20450 to 20600	20525	10 MHz	QPSK	1 RB / 49 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	Carlos Chen
Frequency Stability	25 deg. C, 65 % RH	3.85 Vdc	Carlos Chen
Occupied Bandwidth	25 deg. C, 65 % RH	3.85 Vdc	Carlos Chen
Band Edge	25 deg. C, 65 % RH	3.85 Vdc	Carlos Chen
Peak to Average Ratio	25 deg. C, 65 % RH	3.85 Vdc	Carlos Chen
Condcudeted Emission	25 deg. C, 65 % RH	3.85 Vdc	Carlos Chen
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee / Charles Hsiao

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:

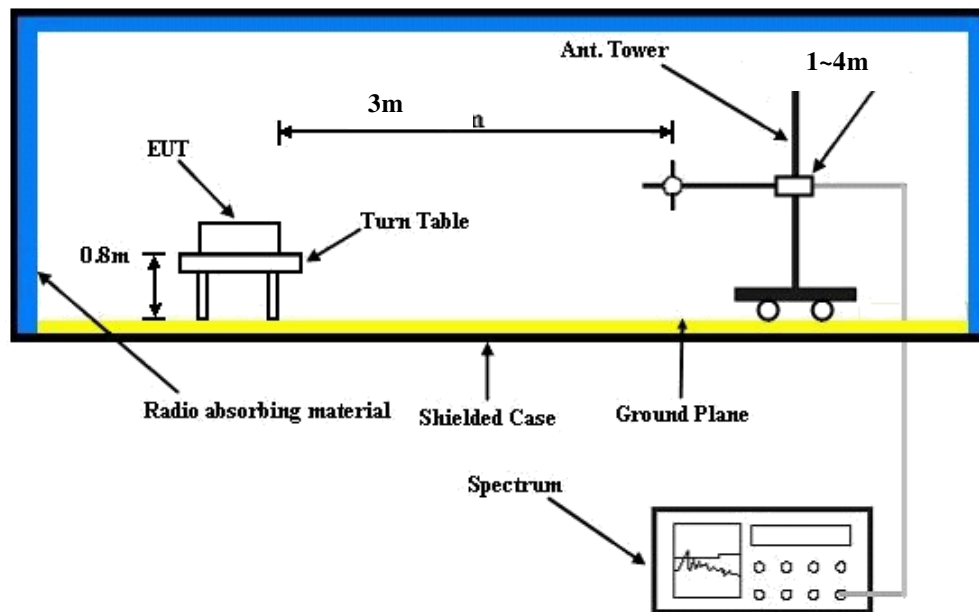
- All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, and 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn 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 b. Record the power level of S.G.
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. 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.

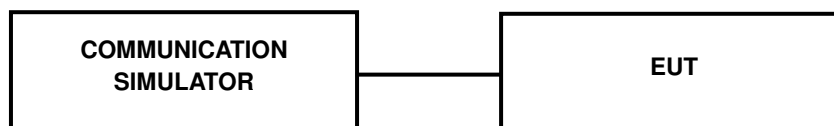
4.1.3 Test Setup

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	32.58	32.74	32.89
GPRS 8	32.64	32.78	32.93
GPRS 10	31.77	31.76	31.45
GPRS 11	28.90	28.91	29.02
GPRS 12	27.67	27.65	27.79
EDGE 8	26.34	26.52	26.62
EDGE 10	26.35	26.42	26.48
EDGE 11	26.19	26.24	26.30
EDGE 12	25.98	25.99	26.00

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	22.53	22.91	22.98
HSDPA Subtest-1	22.07	22.45	22.52
HSDPA Subtest-2	22.08	22.46	22.53
HSDPA Subtest-3	22.35	22.73	22.80
HSDPA Subtest-4	22.38	22.76	22.83
HSUPA Subtest-1	22.04	22.42	22.49
HSUPA Subtest-2	20.83	21.21	21.28
HSUPA Subtest-3	21.04	21.42	21.49
HSUPA Subtest-4	20.81	21.19	21.26
HSUPA Subtest-5	22.05	22.43	22.50

Band	CDMA		
Channel	1013	384	777
Frequency (MHz)	824.70	836.52	848.31
RC1+SO55	22.87	23.33	23.45
RC3+SO55	23.44	23.90	23.95
RC3+SO32(+ F-SCH)	22.85	23.31	23.39
RC3+SO32(+SCH)	23.40	23.86	23.92
RTAP 153.6	23.61	24.07	24.36
RETAP 4096	22.96	23.42	23.71

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	22.52	22.51	22.53	0	21.54	21.51	21.67	1
	1	2	22.55	22.54	22.56	0	21.61	21.55	21.61	1
	1	5	22.57	22.53	22.53	0	21.71	21.67	21.53	1
	3	0	22.66	22.59	22.57	0	21.80	21.73	21.62	1
	3	1	22.56	22.52	22.55	0	21.70	21.66	21.69	1
	3	3	22.55	22.55	22.54	0	21.69	21.69	21.62	1
	6	0	21.56	21.62	21.62	1	20.70	20.76	20.76	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	22.53	22.51	22.66	0	21.63	21.59	21.76	1
	1	7	22.60	22.54	22.60	0	21.70	21.64	21.70	1
	1	14	22.70	22.66	22.52	0	21.80	21.76	21.62	1
	8	0	21.69	21.65	21.68	1	20.79	20.75	20.78	2
	8	3	21.72	21.79	21.61	1	20.82	20.89	20.71	2
	8	7	21.68	21.68	21.61	1	20.78	20.78	20.71	2
	15	0	21.69	21.75	21.75	1	20.79	20.85	20.85	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	22.67	22.63	22.80	0	21.69	21.65	21.82	1
	1	12	22.74	22.68	22.74	0	21.76	21.70	21.76	1
	1	24	22.84	22.80	22.66	0	21.86	21.82	21.68	1
	12	0	21.83	21.79	21.82	1	20.85	20.81	20.84	2
	12	6	21.86	21.93	21.75	1	20.88	20.95	20.77	2
	12	13	21.82	21.82	21.75	1	20.84	20.84	20.77	2
	25	0	21.83	21.89	21.89	1	20.85	20.91	20.91	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	22.81	22.77	22.94	0	21.74	21.70	21.87	1
	1	24	22.88	22.82	22.88	0	21.81	21.75	21.81	1
	1	49	22.98	22.94	22.80	0	21.91	21.87	21.73	1
	25	0	21.97	21.93	21.96	1	20.90	20.86	20.89	2
	25	12	22.00	21.97	21.89	1	20.93	21.00	20.82	2
	25	25	21.96	21.96	21.89	1	20.89	20.89	20.82	2
	50	0	21.97	21.93	21.96	1	20.90	20.96	20.96	2

ERP Power (dBm)

GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	128	824.2	-0.38	31.208	28.68	737.56	H
	189	836.4	-0.56	31.3	28.59	722.77	
	251	848.8	-0.77	31.222	28.30	676.39	
	128	824.2	-3.36	31.504	25.99	397.56	V
	189	836.4	-3.58	31.117	25.39	345.70	
	251	848.8	-3.89	31.922	25.88	387.44	

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	128	824.2	-5.96	31.208	23.10	204.08	H
	189	836.4	-5.58	31.3	23.57	227.51	
	251	848.8	-5.28	31.222	23.79	239.44	
	128	824.2	-8.68	31.504	20.67	116.79	V
	189	836.4	-7.98	31.117	20.99	125.52	
	251	848.8	-8.81	31.922	20.96	124.80	

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	4132	826.4	-10.57	31.208	18.49	70.63	H
	4182	836.4	-10.85	31.3	18.30	67.61	
	4233	846.6	-10.75	31.222	18.32	67.95	
	4132	826.4	-13.95	31.504	15.40	34.71	V
	4182	836.4	-13.68	31.117	15.29	33.78	
	4233	846.6	-13.81	31.922	15.96	39.46	

CDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	1013	824.7	-8.79	31.208	20.27	106.37	H
	384	836.52	-9.12	31.3	20.03	100.69	
	777	848.31	-8.77	31.222	20.30	107.20	
	1013	824.7	-11.68	31.504	17.67	58.53	V
	384	836.52	-11.75	31.117	17.22	52.69	
	777	848.31	-11.81	31.922	17.96	62.55	

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)
Y	20407	824.7	-10.81	31.208	18.25	66.80	H
	20525	836.5	-10.69	31.3	18.46	70.15	
	20643	848.3	-10.78	31.222	18.29	67.48	
	20407	824.7	-13.99	31.504	15.36	34.39	V
	20525	836.5	-13.69	31.117	15.28	33.71	
	20643	848.3	-14.07	31.922	15.70	37.17	
Channel Bandwidth: 1.4 MHz / 16QAM							
Y	20407	824.7	-11.26	31.208	17.80	60.23	H
	20525	836.5	-11.62	31.3	17.53	56.62	
	20643	848.3	-11.59	31.222	17.48	56.00	
	20407	824.7	-14.72	31.504	14.63	29.07	V
	20525	836.5	-14.61	31.117	14.36	27.27	
	20643	848.3	-14.81	31.922	14.96	31.35	

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20415	825.5	-10.73	31.208	18.33	68.05	H
	20525	836.5	-10.87	31.3	18.28	67.30	
	20635	847.5	-11.01	31.222	18.06	64.00	
	20415	825.5	-13.48	31.504	15.87	38.67	V
	20525	836.5	-13.69	31.117	15.28	33.71	
	20635	847.5	-13.79	31.922	15.98	39.65	
Channel Bandwidth: 3 MHz / 16QAM							
Y	20415	825.5	-11.68	31.208	17.38	54.68	H
	20525	836.5	-11.74	31.3	17.41	55.08	
	20635	847.5	-11.62	31.222	17.45	55.62	
	20415	825.5	-14.62	31.504	14.73	29.74	V
	20525	836.5	-14.57	31.117	14.40	27.52	
	20635	847.5	-14.78	31.922	14.99	31.56	

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20425	826.5	-10.71	31.208	18.35	68.36	H
	20525	836.5	-10.55	31.3	18.60	72.44	
	20625	846.5	-10.61	31.222	18.46	70.18	
	20425	826.5	-13.67	31.504	15.68	37.02	V
	20525	836.5	-13.81	31.117	15.16	32.79	
	20625	846.5	-13.81	31.922	15.96	39.46	
Channel Bandwidth: 5 MHz / 16QAM							
Y	20425	826.5	-11.73	31.208	17.33	54.05	H
	20525	836.5	-11.66	31.3	17.49	56.10	
	20625	846.5	-11.85	31.222	17.22	52.75	
	20425	826.5	-14.69	31.504	14.66	29.27	V
	20525	836.5	-14.63	31.117	14.34	27.15	
	20625	846.5	-14.89	31.922	14.88	30.78	

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20450	829.0	-10.72	31.208	18.34	68.20	H
	20525	836.5	-10.46	31.3	18.69	73.96	
	20600	844.0	-10.38	31.222	18.69	73.99	
	20450	829.0	-13.82	31.504	15.53	35.76	V
	20525	836.5	-13.71	31.117	15.26	33.55	
	20600	844.0	-13.91	31.922	15.86	38.57	
Channel Bandwidth: 10 MHz / 16QAM							
Y	20450	829.0	-11.97	31.208	17.09	51.14	H
	20525	836.5	-11.82	31.3	17.33	54.08	
	20600	844.0	-11.91	31.222	17.16	52.02	
	20450	829.0	-14.65	31.504	14.70	29.54	V
	20525	836.5	-14.71	31.117	14.26	26.65	
	20600	844.0	-14.80	31.922	14.97	31.42	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

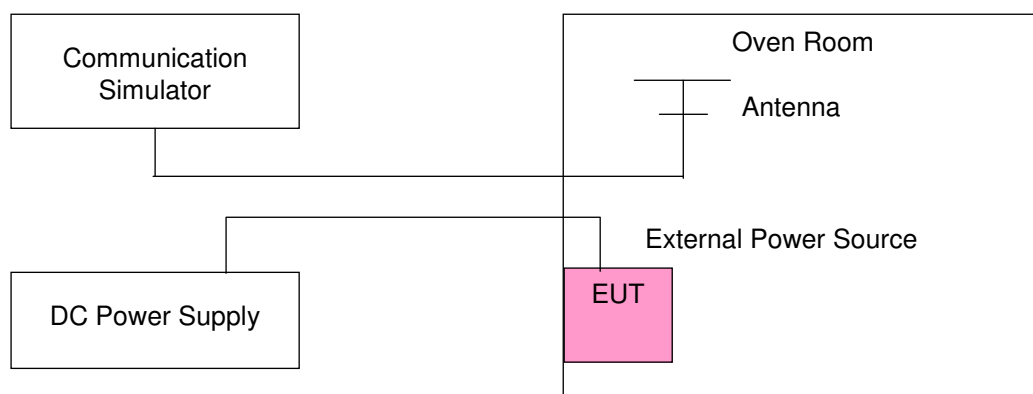
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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	CDMA	LTE Band 5				
					1.4 MHz	3 MHz	5 MHz	10 MHz	
3.85	0.0031	0.0023	0.0029	0.0001	0.0019	0.0032	0.0031	0.0001	2.5
3.6	0.0011	0.0008	0.0035	0.0004	0.0035	0.0004	0.0023	0.0017	2.5
4.4	0.0018	0.0027	0.0016	0.0033	0.0004	0.0019	0.0006	0.0008	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

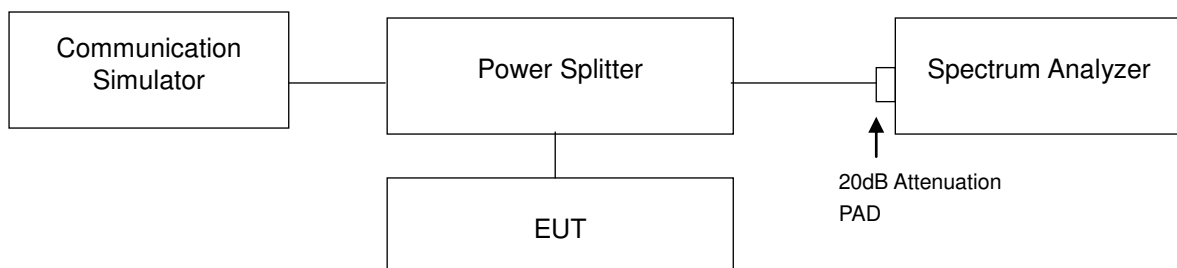
Temp. (°C)	Frequency Error (ppm)								Limit (ppm)
	GSM	EDGE	WCDMA	CDMA	LTE Band 5				
					1.4 MHz	3 MHz	5 MHz	10 MHz	
-30	0.0026	0.0042	0.0049	0.0029	0.0025	0.0038	0.0033	0.0020	2.5
-20	0.0023	0.0007	0.0012	0.0010	0.0030	0.0010	0.0025	0.0044	2.5
-10	0.0010	0.0001	0.0016	0.0035	0.0042	0.0007	0.0018	0.0035	2.5
0	0.0018	0.0031	0.0006	0.0025	0.0008	0.0012	0.0018	0.0041	2.5
10	0.0032	0.0024	0.0020	0.0036	0.0041	0.0041	0.0016	0.0013	2.5
20	-0.0014	-0.0013	-0.0002	-0.0025	-0.0039	-0.0025	-0.0043	-0.0001	2.5
30	-0.0031	-0.0043	-0.0029	-0.0008	-0.0048	-0.0014	-0.0037	-0.0035	2.5
40	-0.0048	-0.0043	-0.0030	-0.0002	-0.0047	-0.0024	-0.0005	-0.0016	2.5
50	-0.0032	-0.0031	-0.0024	-0.0006	-0.0025	-0.0038	-0.0019	-0.0042	2.5
55	-0.0037	-0.0008	-0.0018	-0.0020	-0.0017	-0.0024	-0.0036	-0.0016	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

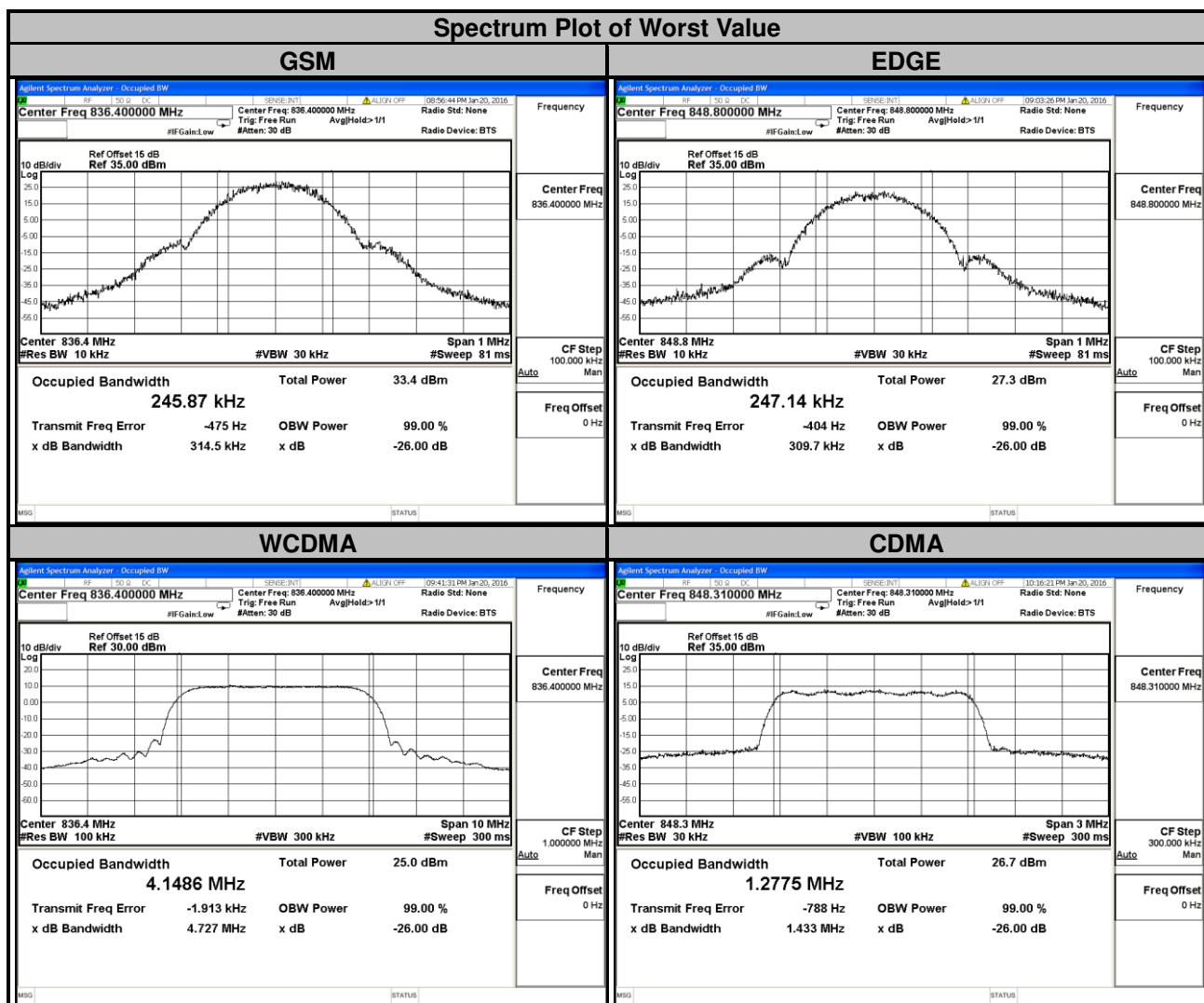
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.3.2 Test Setup

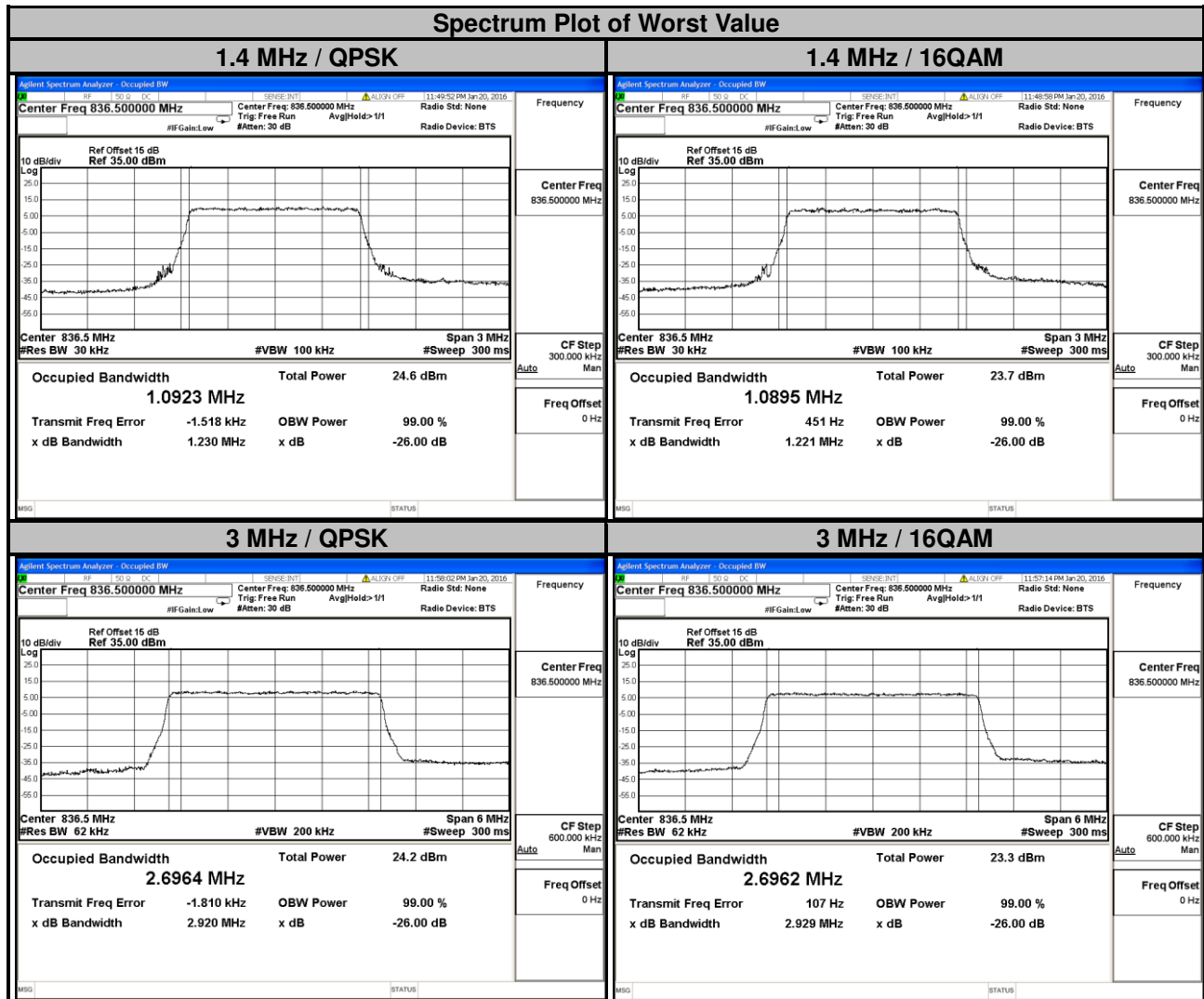


4.3.3 Test Result

Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
		GSM	EDGE			WCDMA
128	824.2	245.84	244.61	4132	826.4	4.1471
189	836.4	245.87	246.17	4182	836.4	4.1486
251	848.8	245.66	247.14	4233	846.6	4.1452
Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz)				
		CDMA				
1013	824.70	1.2734				
384	836.52	1.2742				
777	848.31	1.2775				



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	1.0913	1.0888	20415	825.5	2.6953	2.6954
20525	836.5	1.0923	1.0895	20525	836.5	2.6964	2.6962
20643	848.3	1.0898	1.0884	20635	847.5	2.6954	2.6960



LTE Band 5

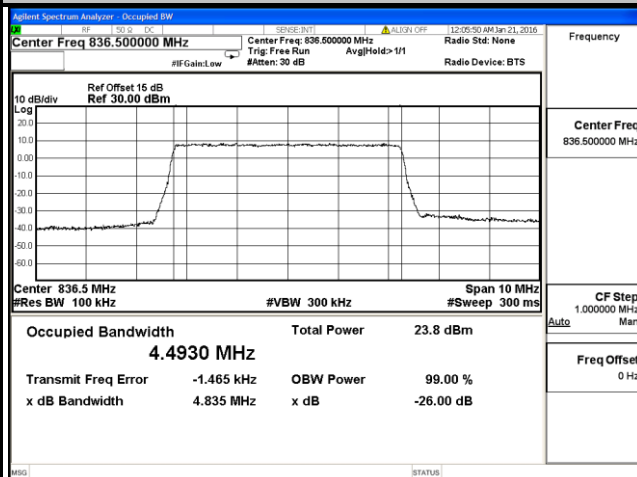
Channel Bandwidth: 5 MHz

Channel Bandwidth: 10 MHz

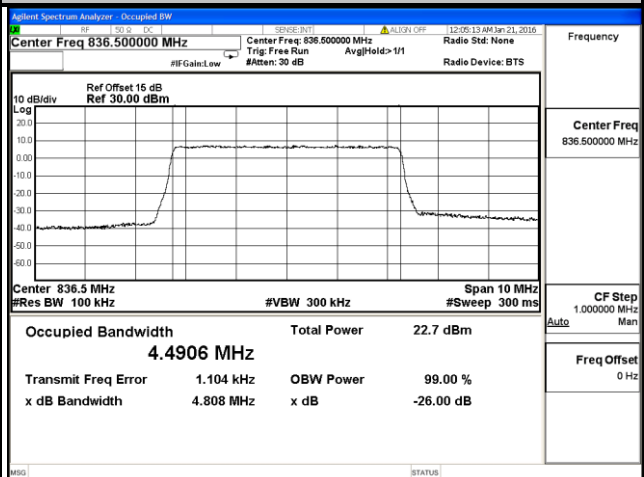
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.4896	4.4882	20450	829.0	8.9688	8.9651
20525	836.5	4.4930	4.4906	20525	836.5	8.9698	8.9645
20625	846.5	4.4907	4.8800	20600	844.0	8.9661	8.9682

Spectrum Plot of Worst Value

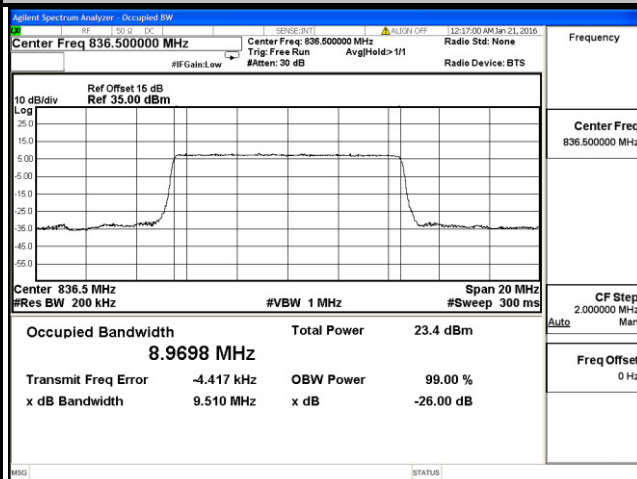
5 MHz / QPSK



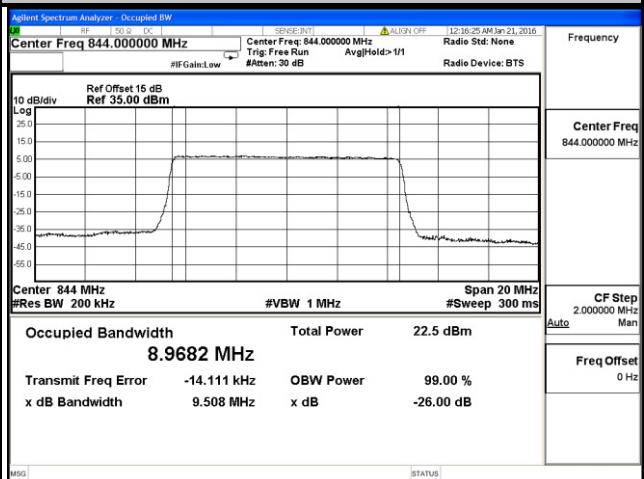
5 MHz / 16QAM



10 MHz / QPSK



10 MHz / 16QAM

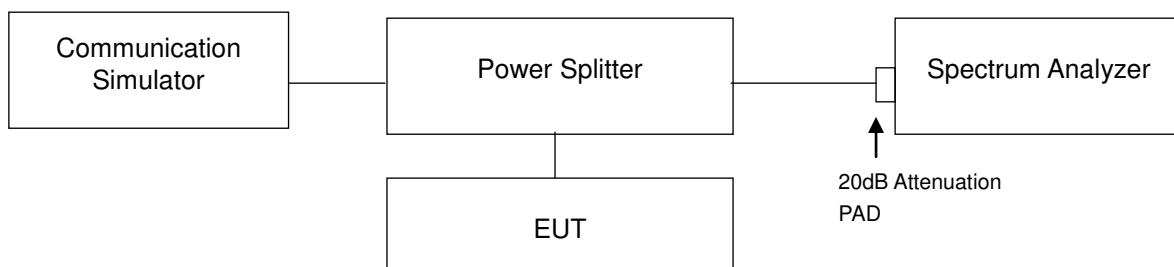


4.4 Band Edge Measurement

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.

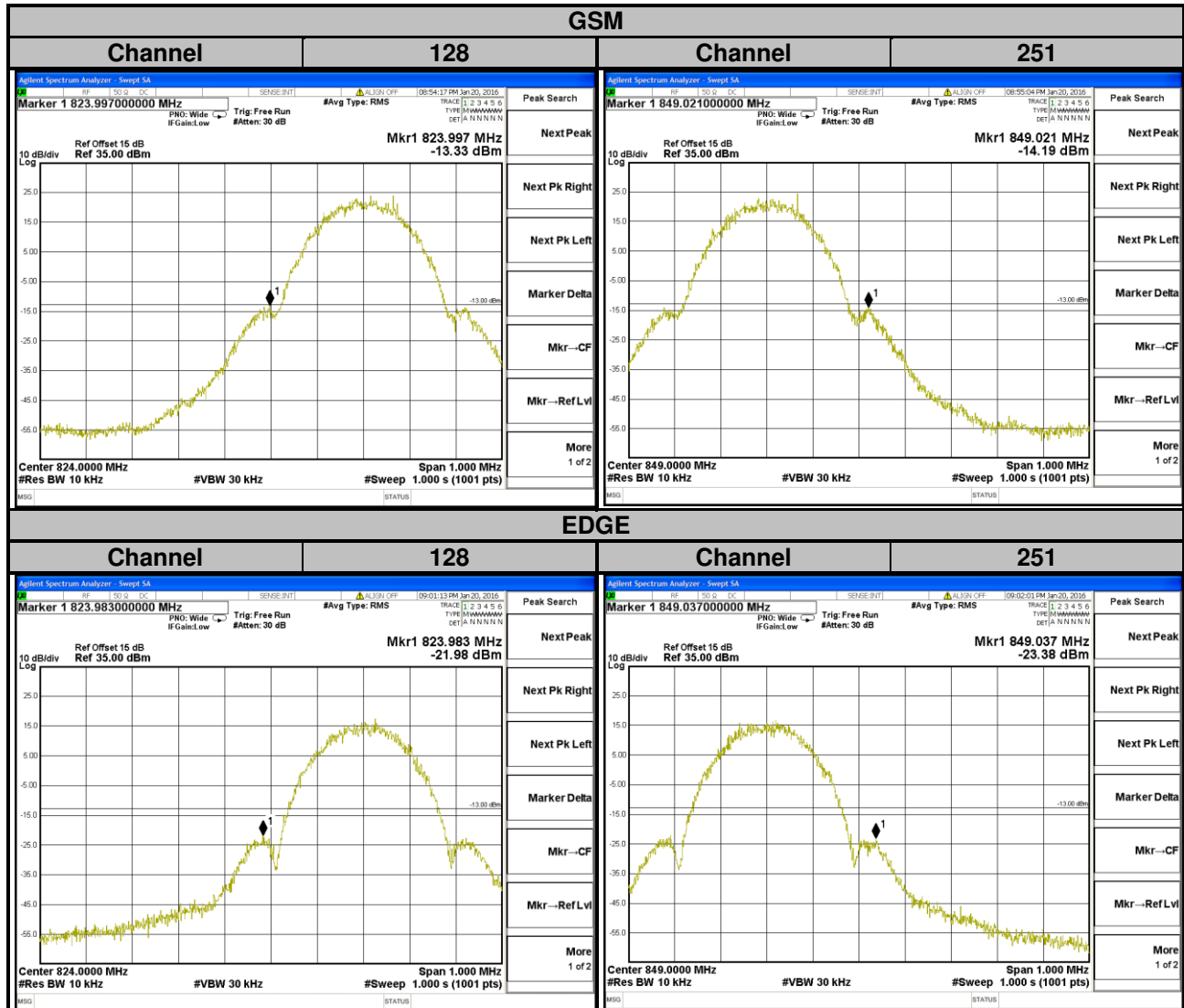
4.4.2 Test Setup



4.4.3 Test Procedures

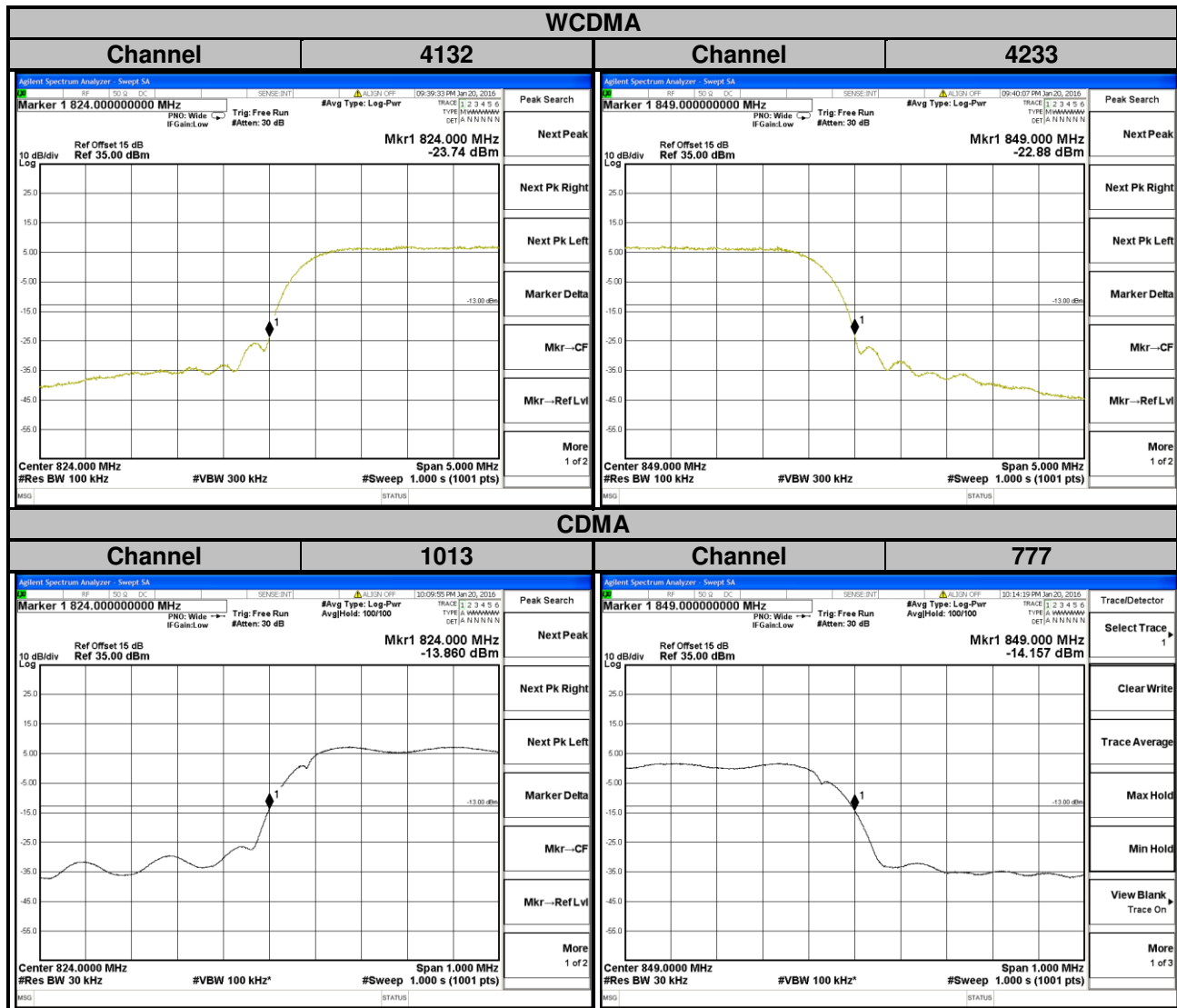
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 3.9 kHz and VB of the spectrum is 12 kHz (GSM/GPRS/EDGE).
- The center frequency of spectrum is the band edge frequency and 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 (CDMA / 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.

4.4.4 Test Results





A D T





A D T

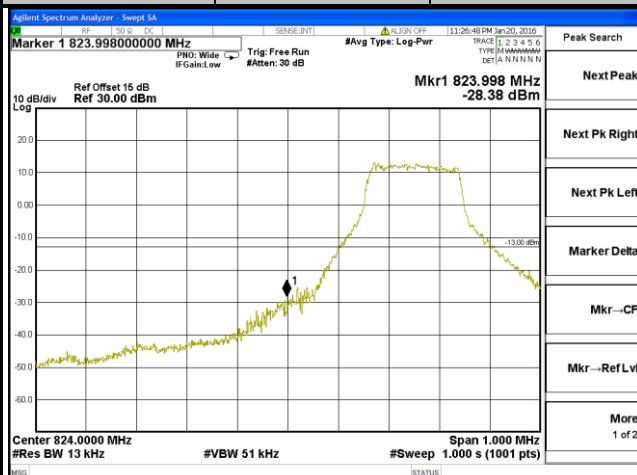
LTE Band 5

Channel Bandwidth: 1.4 MHz

Channel

20407

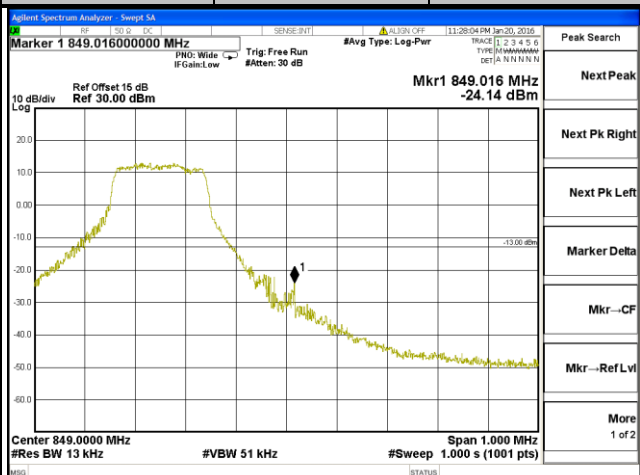
1 RB



Channel

20643

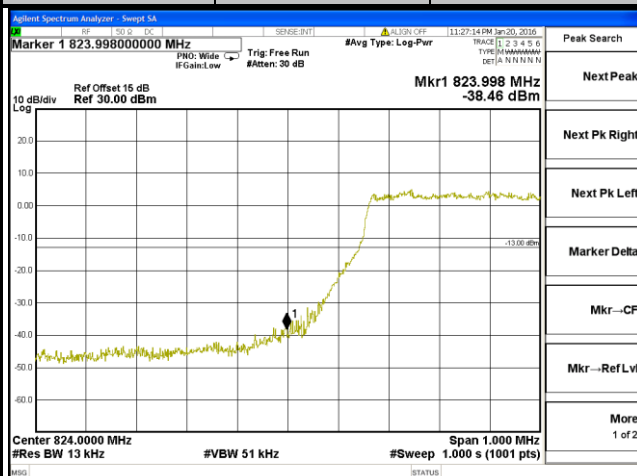
1 RB



Channel

20407

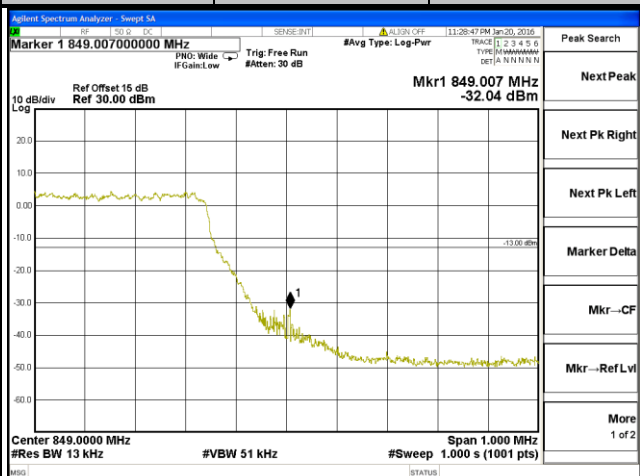
6 RB



Channel

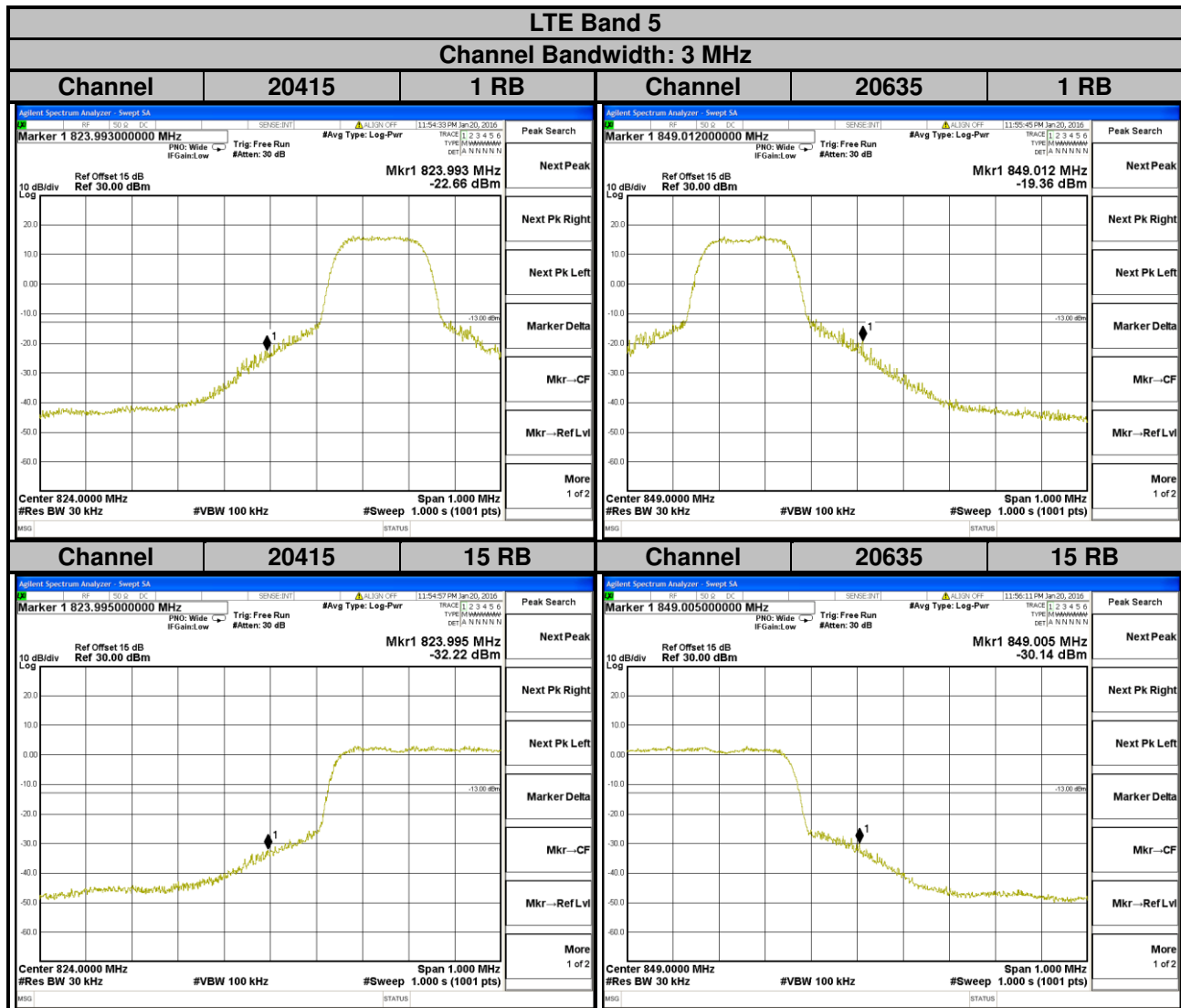
20643

6 RB



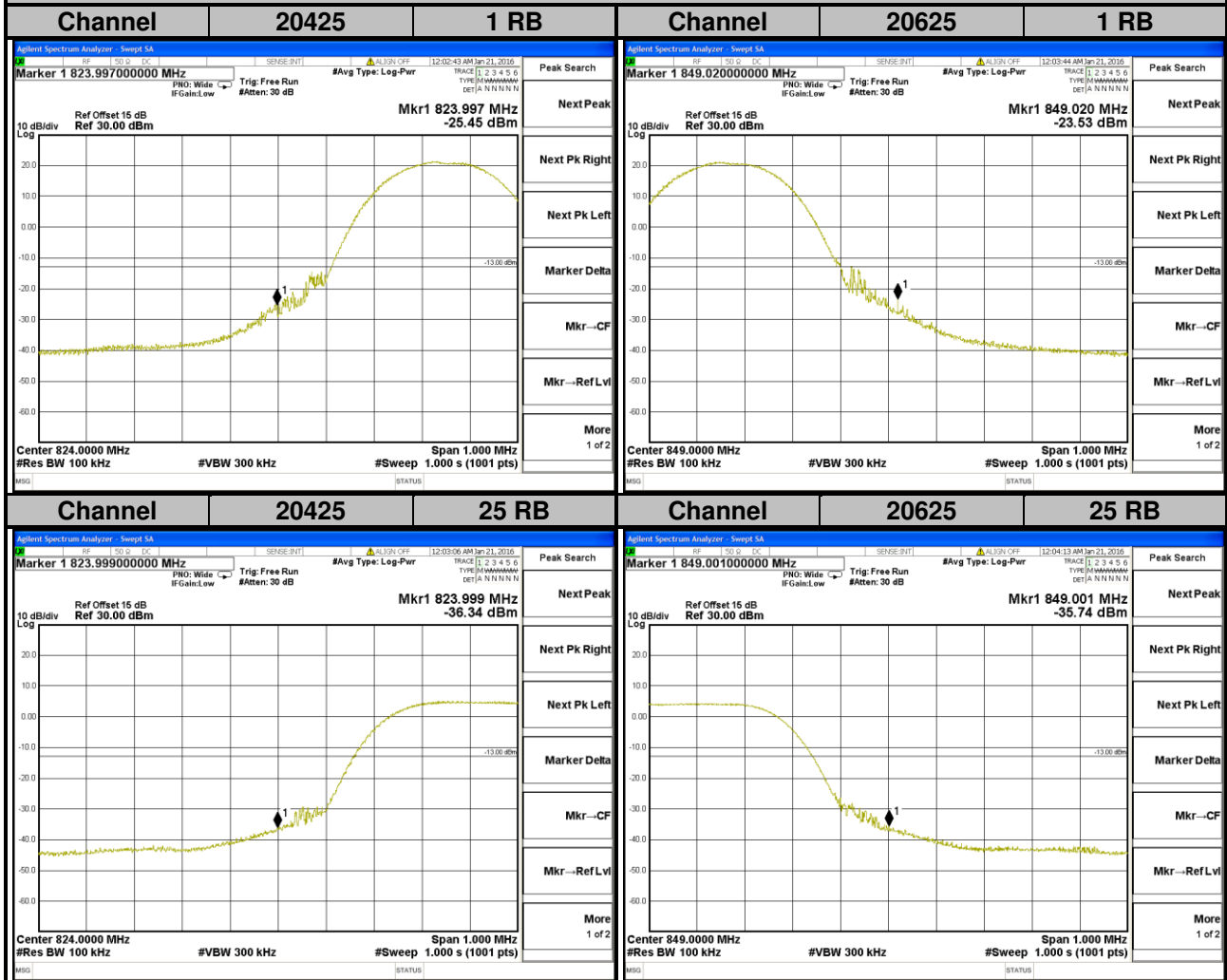


A D T



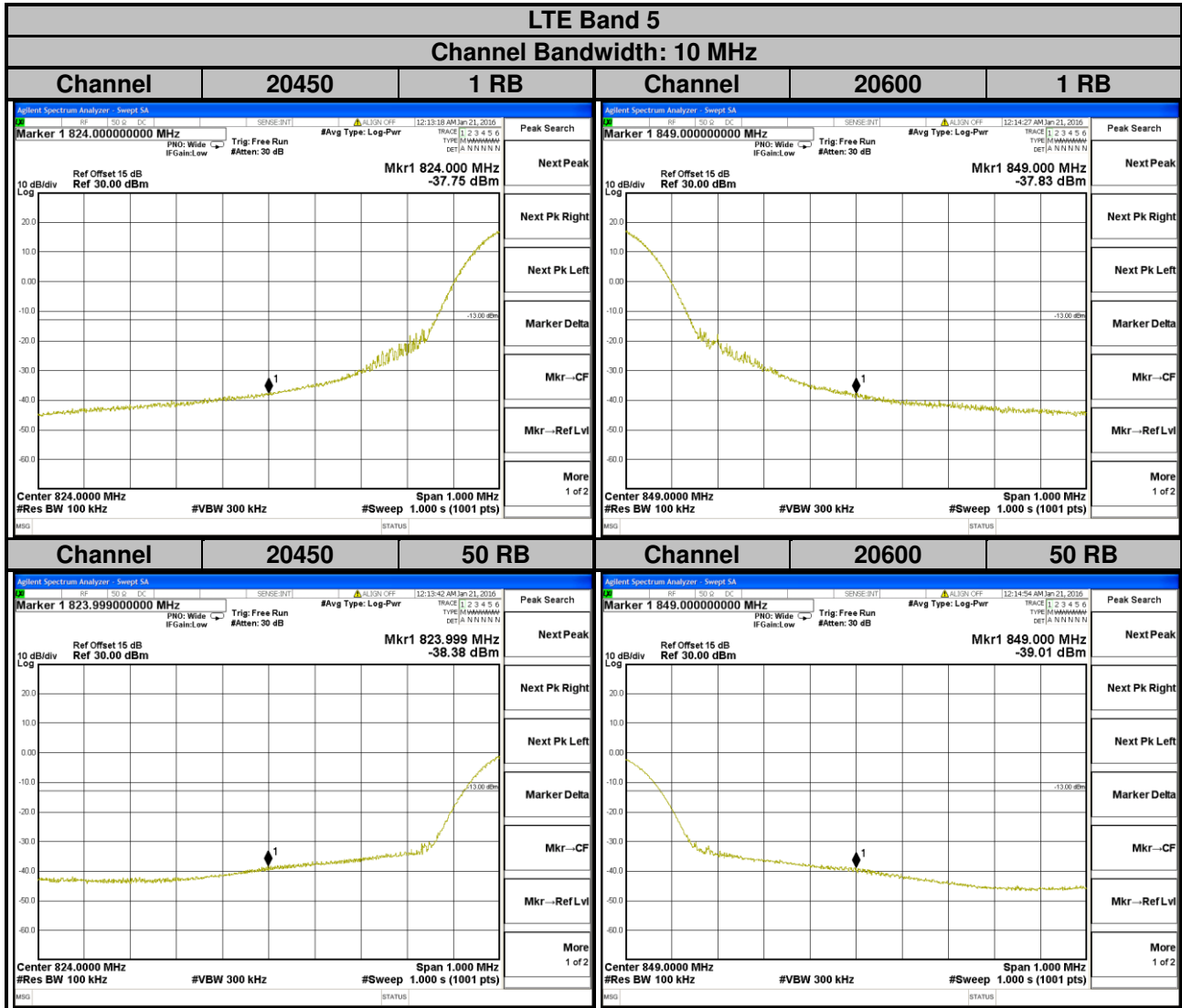
LTE Band 5

Channel Bandwidth: 5 MHz





A D T

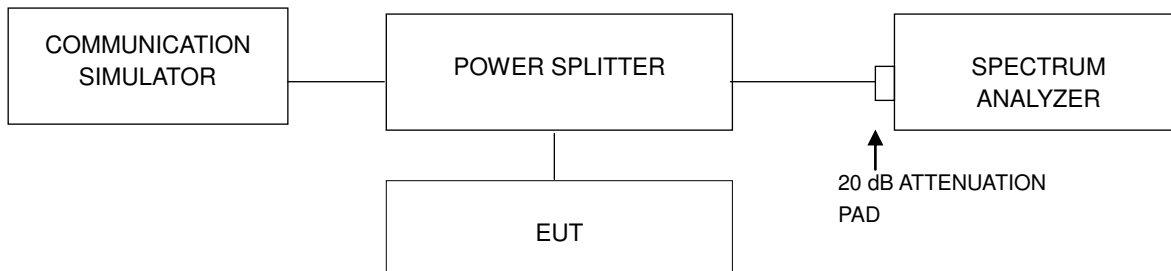


4.5 Peak to Average Ratio

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

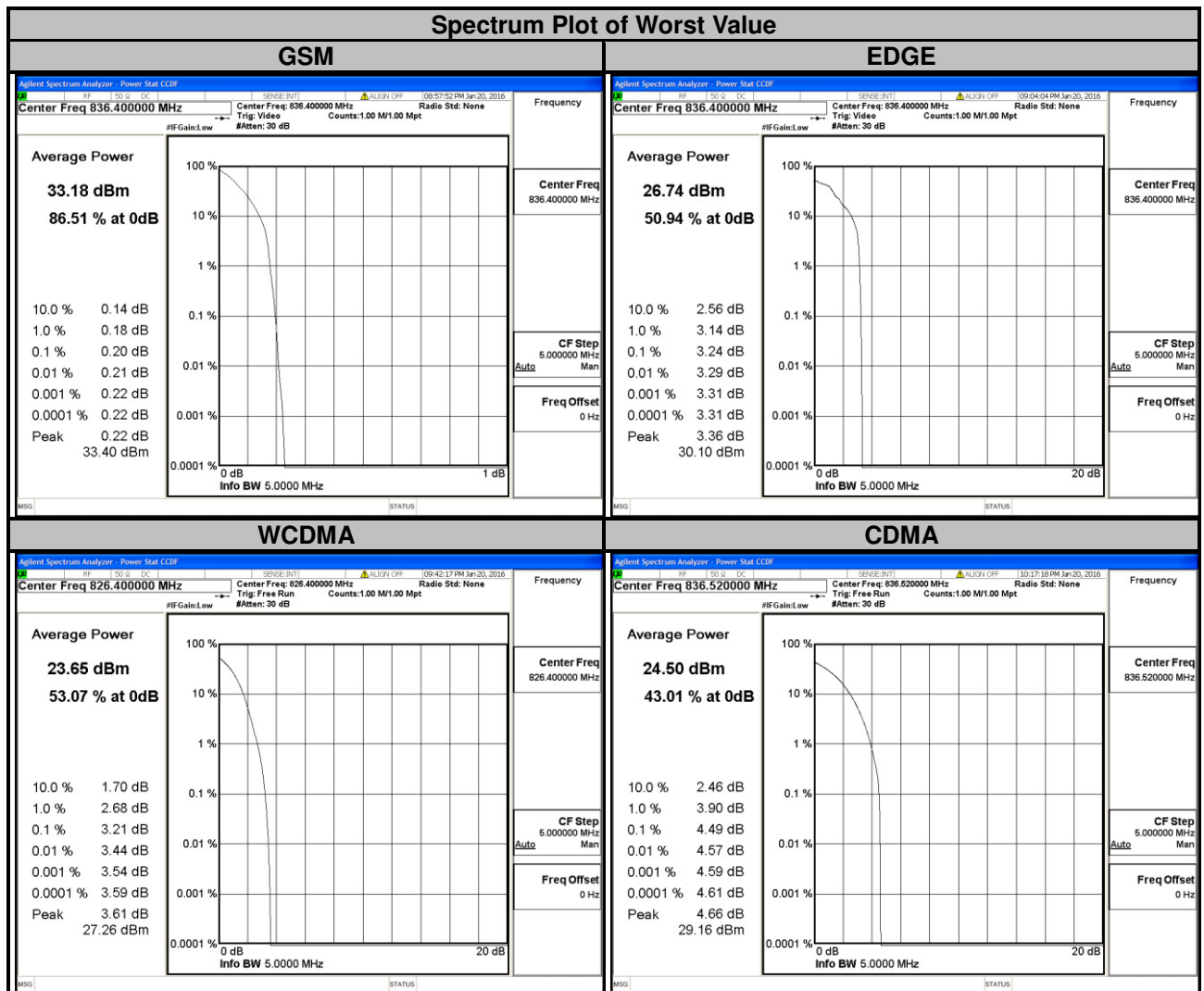


4.5.3 Test Procedures

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	0.19	3.22	4132	826.4	3.21
189	836.4	0.20	3.24	4182	836.4	3.17
251	848.8	0.20	3.22	4233	846.6	3.11
Channel	Frequency (MHz)	Peak to Average Ratio (dB)				
		CDMA				
1013	824.70	4.38				
384	836.52	4.49				
777	848.31	3.36				



LTE Band 5

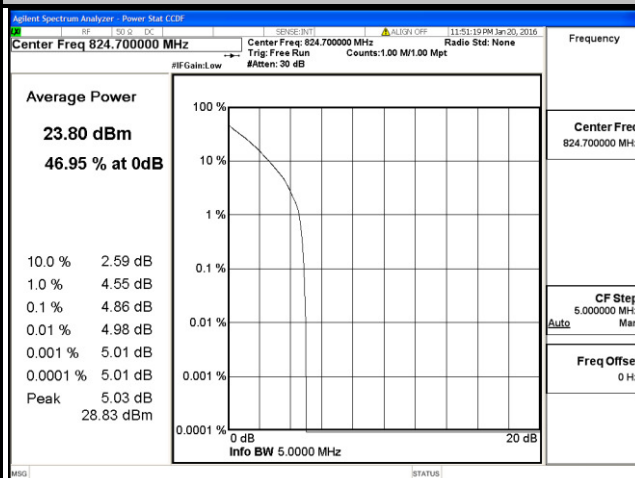
Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 3 MHz

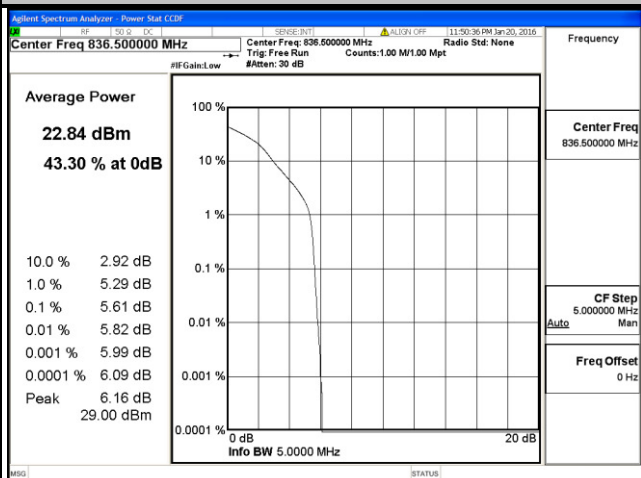
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	4.86	5.53	20415	825.5	4.63	5.41
20525	836.5	4.80	5.61	20525	836.5	4.58	5.30
20643	848.3	4.36	5.22	20635	847.5	4.59	5.36

Spectrum Plot of Worst Value

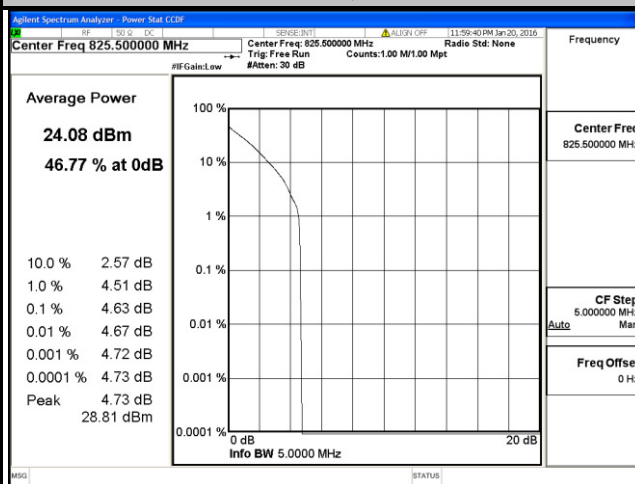
1.4 MHz / QPSK



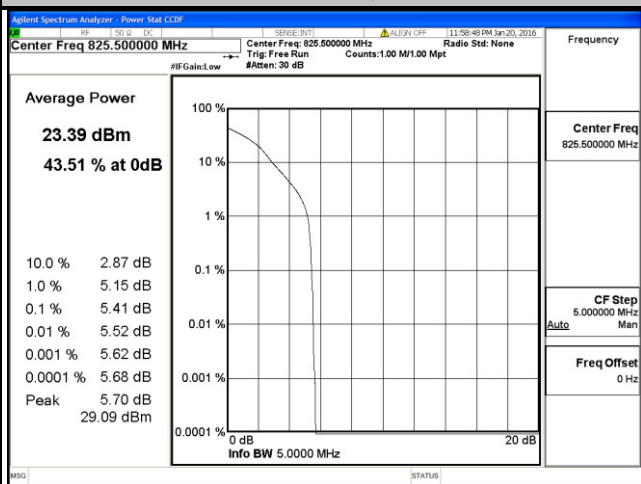
1.4 MHz / 16QAM



3 MHz / QPSK



3 MHz / 16QAM



LTE Band 5

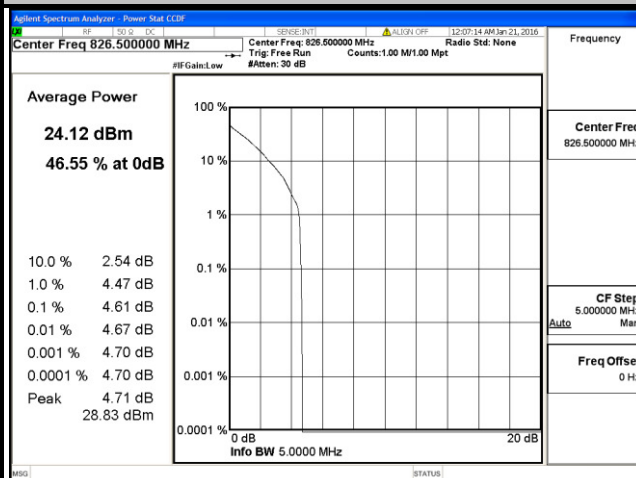
Channel Bandwidth: 5 MHz

Channel Bandwidth: 10 MHz

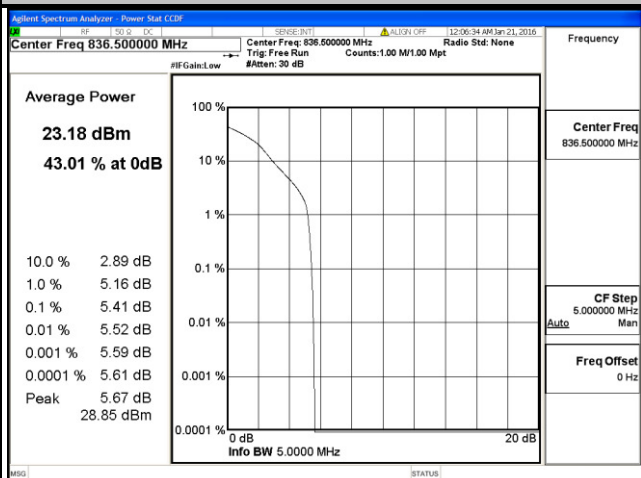
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.61	5.37	20450	829.0	4.57	5.34
20525	836.5	4.59	5.41	20525	836.5	4.62	5.44
20625	846.5	4.60	5.35	20600	844.0	4.55	5.36

Spectrum Plot of Worst Value

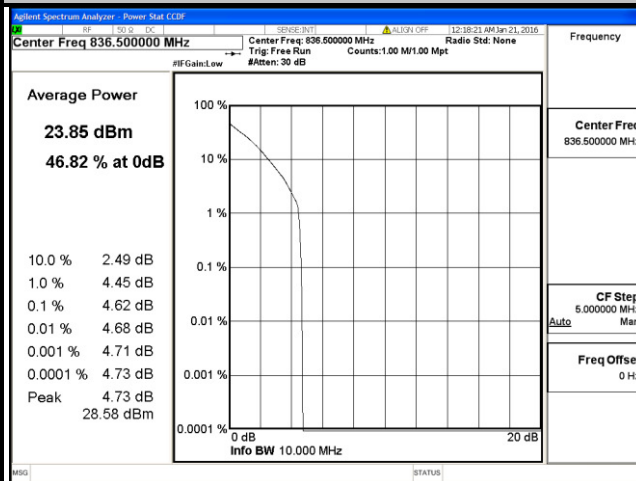
5 MHz / QPSK



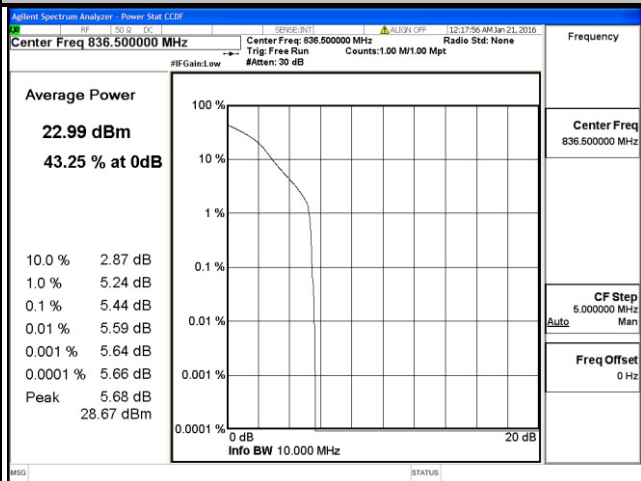
5 MHz / 16QAM



10 MHz / QPSK



10 MHz / 16QAM

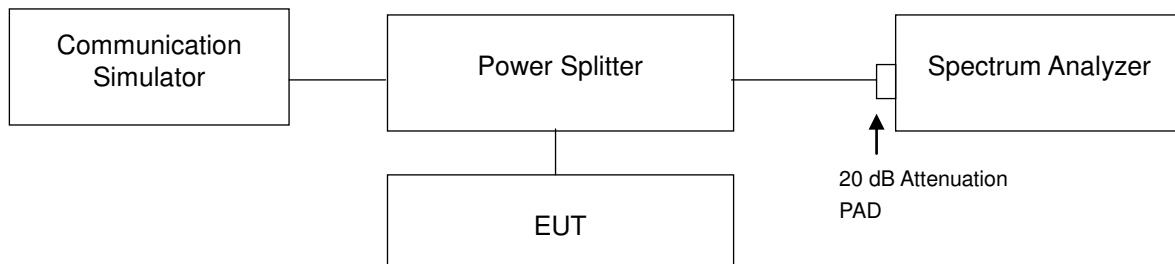


4.6 Conducted Spurious Emissions

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.

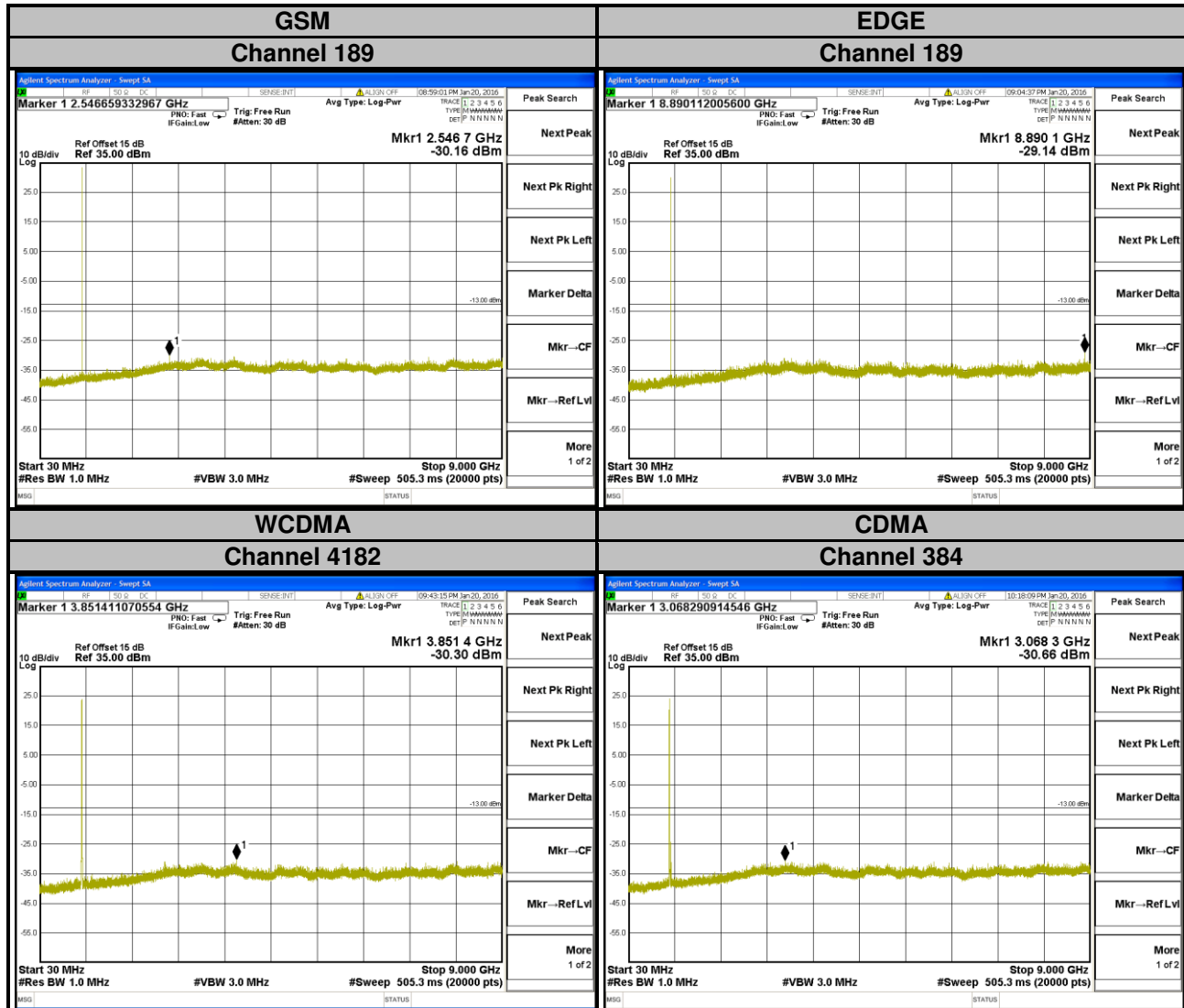
4.6.2 Test Setup



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

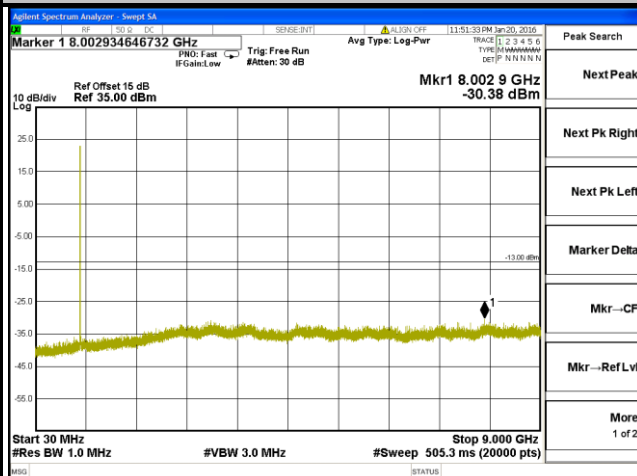




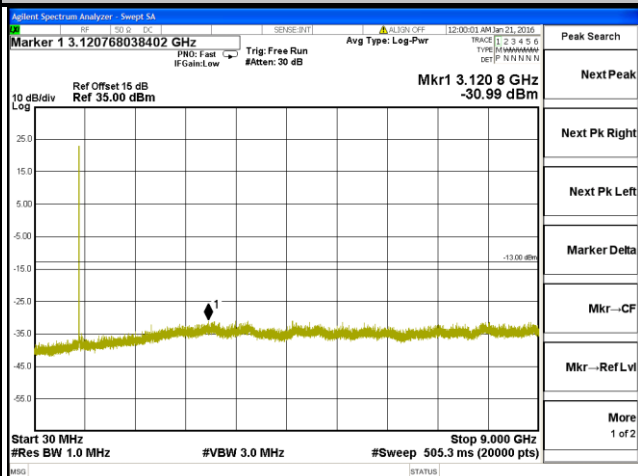
A D T

LTE Band 5 Channel 20525

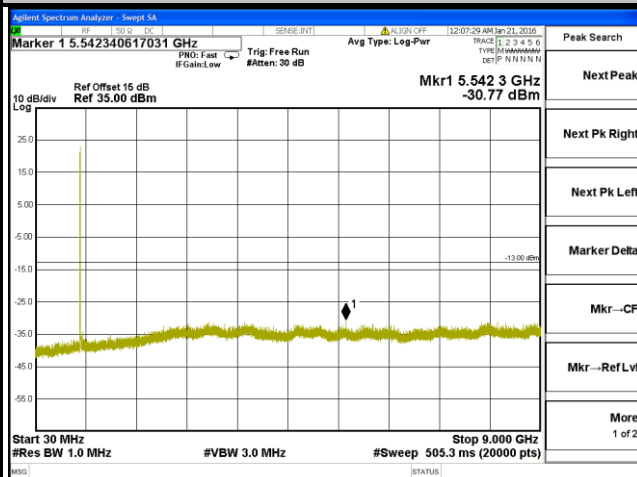
Channel Bandwidth: 1.4 MHz



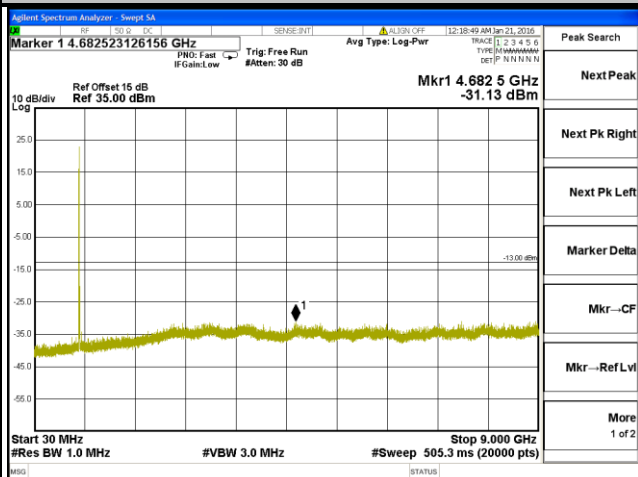
Channel Bandwidth: 3 MHz



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

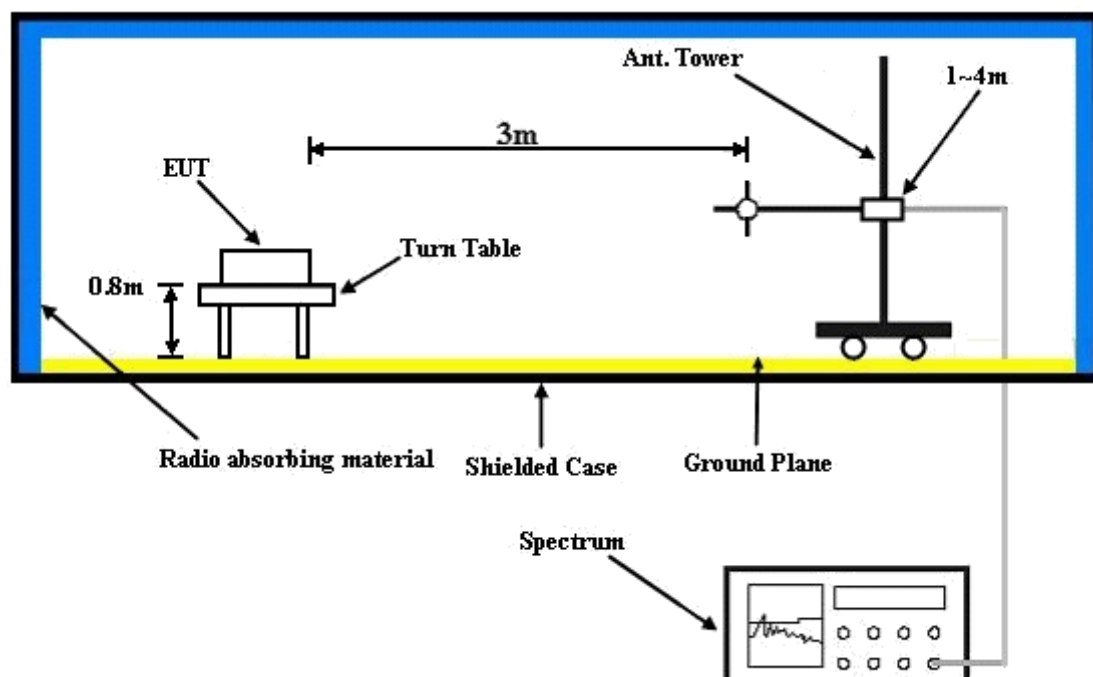
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

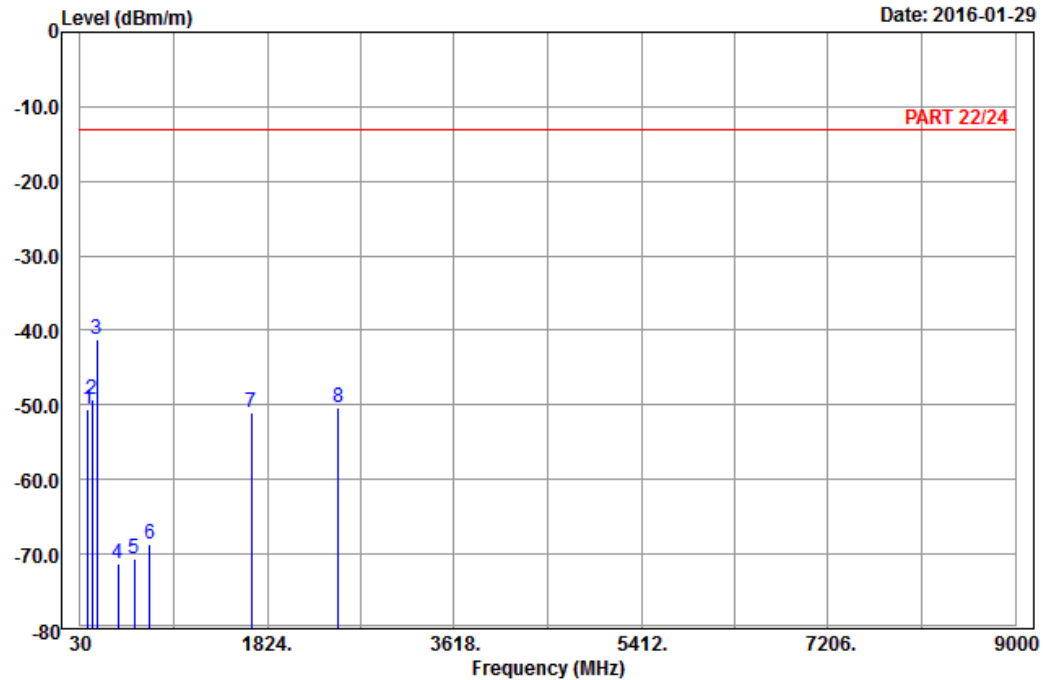


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2016-01-29



Site : 966 chamber 1
Condition: PART 22/24 3m Horizontal
Remark : GSM 850_Link_CH189
Tested by: Charles Hsiao
Plane : Y

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	103.17	-50.64	-40.87	-13.00	-37.64	-9.77	Peak
2	140.43	-49.36	-41.64	-13.00	-36.36	-7.72	Peak
3 pp	192.81	-41.23	-35.36	-13.00	-28.23	-5.87	Peak
4	389.60	-71.36	-68.10	-13.00	-58.36	-3.26	Peak
5	551.30	-70.67	-69.05	-13.00	-57.67	-1.62	Peak
6	693.40	-68.64	-68.29	-13.00	-55.64	-0.35	Peak
7	1672.80	-51.11	-59.02	-13.00	-38.11	7.91	Peak
8	2509.20	-50.43	-61.71	-13.00	-37.43	11.28	Peak

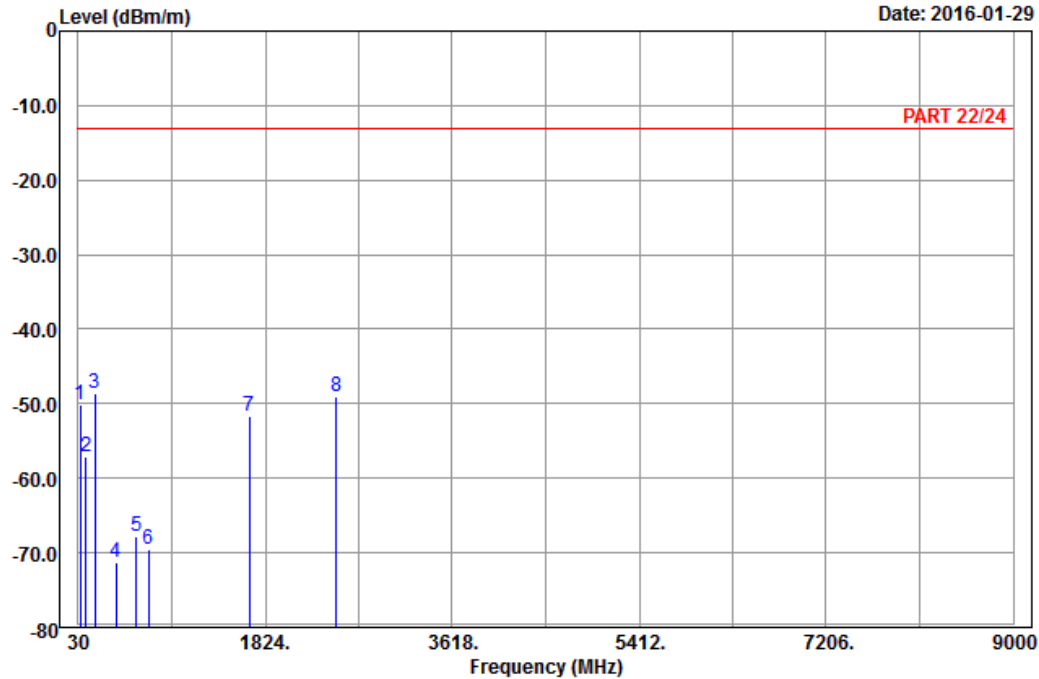


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A D T

Data: 10

Date: 2016-01-29



Site : 966 chamber 1
Condition: PART 22/24 3m Vertical
Remark : GSM 850_Link_CH189
Tested by: Charles Hsiao
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	47.82	-50.18	-37.07	-13.00	-37.18	-13.11	Peak
2	107.76	-57.21	-48.03	-13.00	-44.21	-9.18	Peak
3 pp	188.22	-48.70	-43.00	-13.00	-35.70	-5.70	Peak
4	392.40	-71.21	-68.11	-13.00	-58.21	-3.10	Peak
5	584.20	-67.89	-67.63	-13.00	-54.89	-0.26	Peak
6	703.20	-69.43	-69.00	-13.00	-56.43	-0.43	Peak
7	1672.80	-51.72	-59.63	-13.00	-38.72	7.91	Peak
8	2509.20	-48.95	-60.23	-13.00	-35.95	11.28	Peak

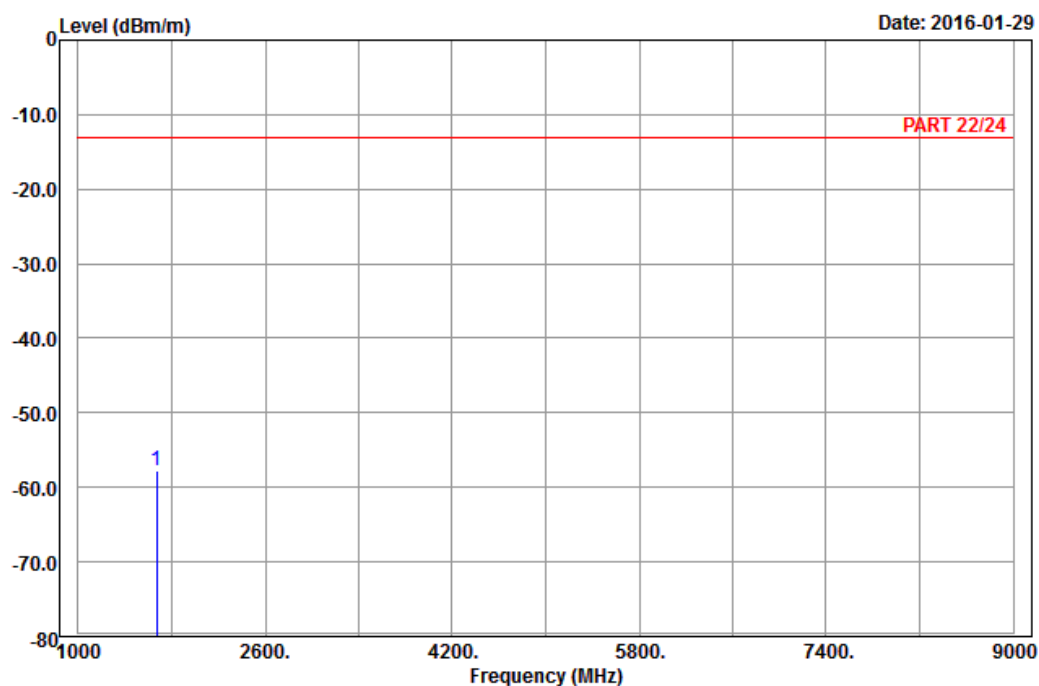
EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 3m Horizontal
Remark : EDGE 850_Link_CH189
Tested by: Karl Lee
Plane : Y

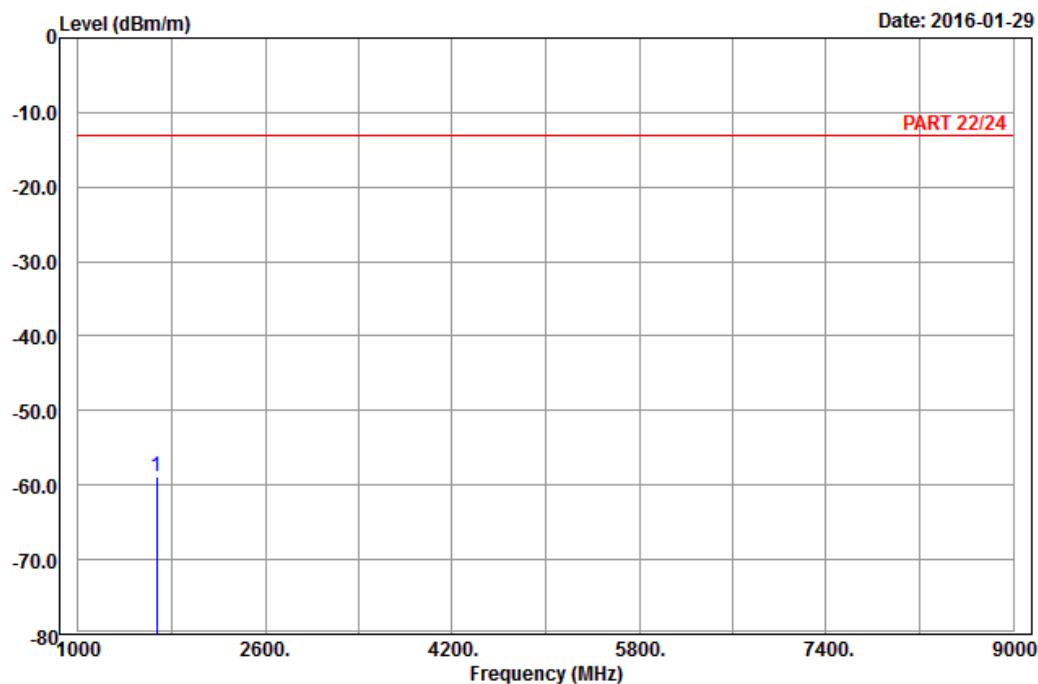
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-57.82	-65.73	-13.00	-44.82	7.91	Peak



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 6



Site : 966 chamber 1
Condition: PART 22/24 3m Vertical
Remark : EDGE 850_Link_CH189
Tested by: Karl Lee
Plane : Y

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp	1672.80	-58.87	-66.78	-13.00	-45.87	7.91 Peak

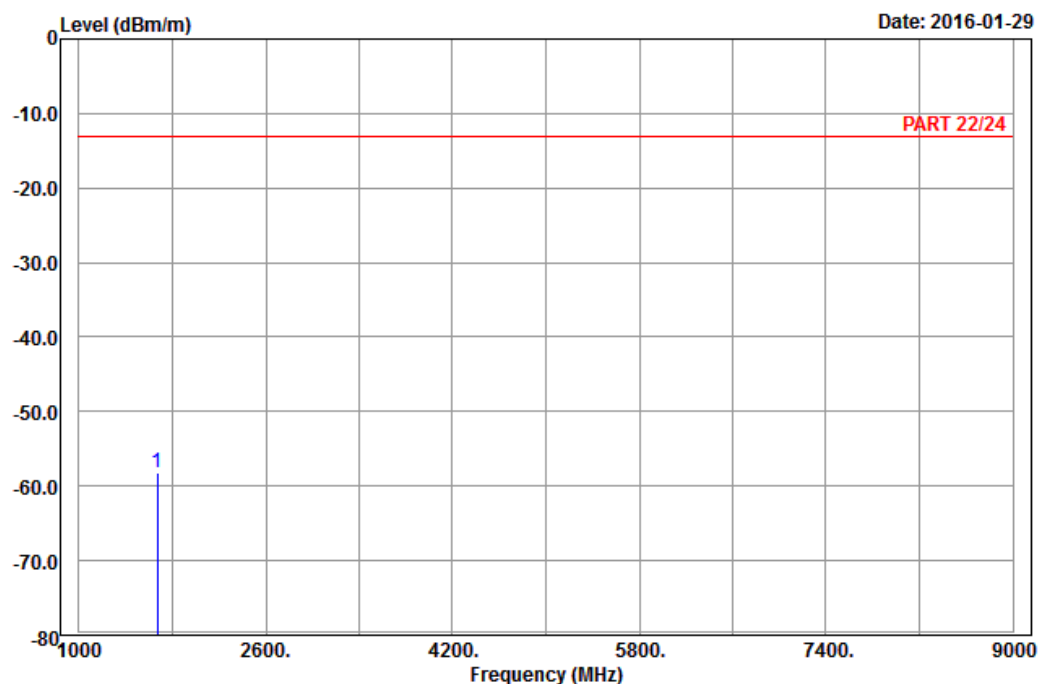
WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 3m Horizontal
Remark : Band V_Link_CH4182
Tested by: Charles Hsiao
Plane : Y

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-58.22	-66.13	-13.00	-45.22	7.91	Peak

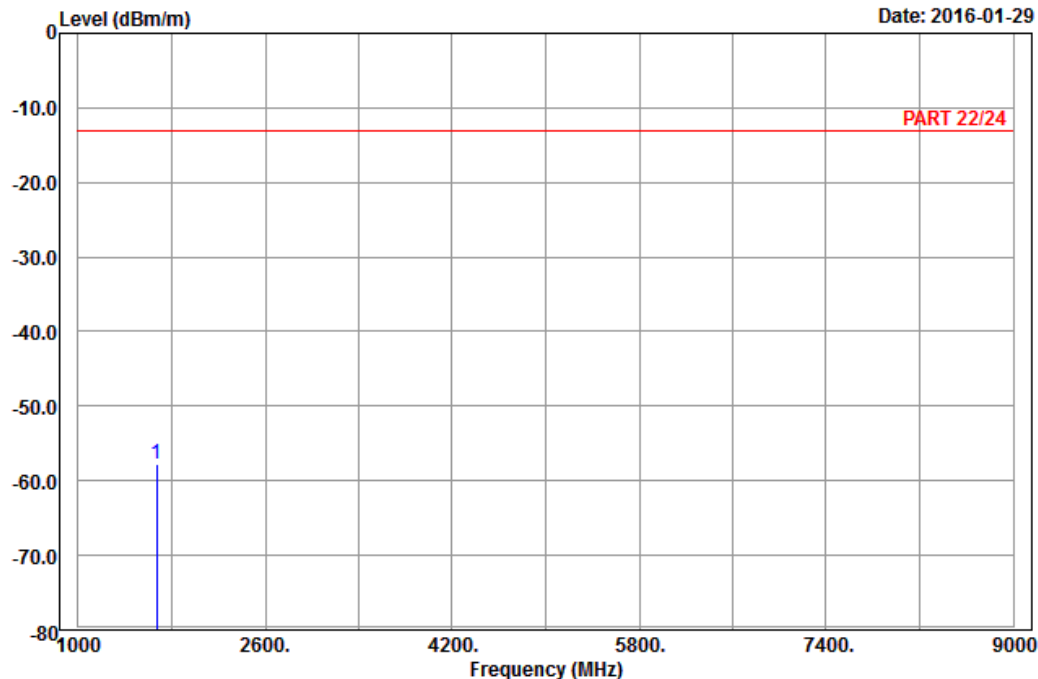


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2016-01-29



Site : 966 chamber 1
Condition: PART 22/24 3m Vertical
Remark : Band V_Link_CH4182
Tested by: Charles Hsiao
Plane : Y

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp 1672.80	-57.77	-65.68	-13.00	-44.77	7.91	Peak

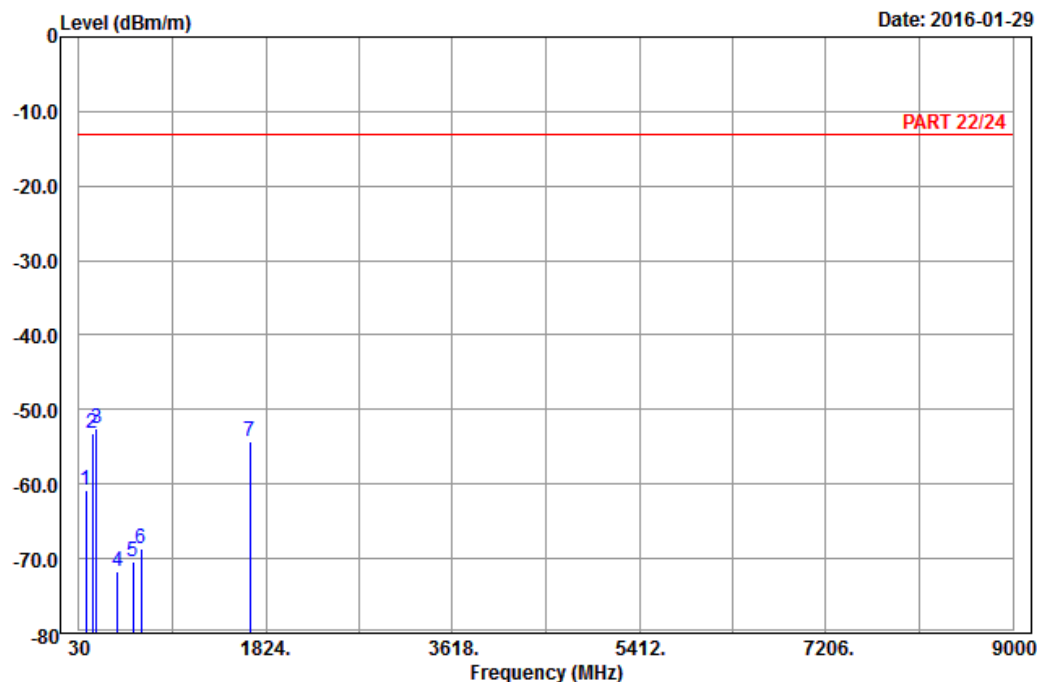
CDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1
Condition: PART 22/24 3m Horizontal
Remark : BC 0_Link_CH384
Tested by: Karl Lee
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	98.31	-60.87	-50.64	-13.00	-47.87	-10.23	Peak
2	162.03	-53.14	-45.67	-13.00	-40.14	-7.47	Peak
3 pp	198.75	-52.57	-46.43	-13.00	-39.57	-6.14	Peak
4	397.30	-71.66	-68.82	-13.00	-58.66	-2.84	Peak
5	545.00	-70.42	-68.40	-13.00	-57.42	-2.02	Peak
6	625.50	-68.69	-68.83	-13.00	-55.69	0.14	Peak
7	1673.04	-54.20	-62.11	-13.00	-41.20	7.91	Peak

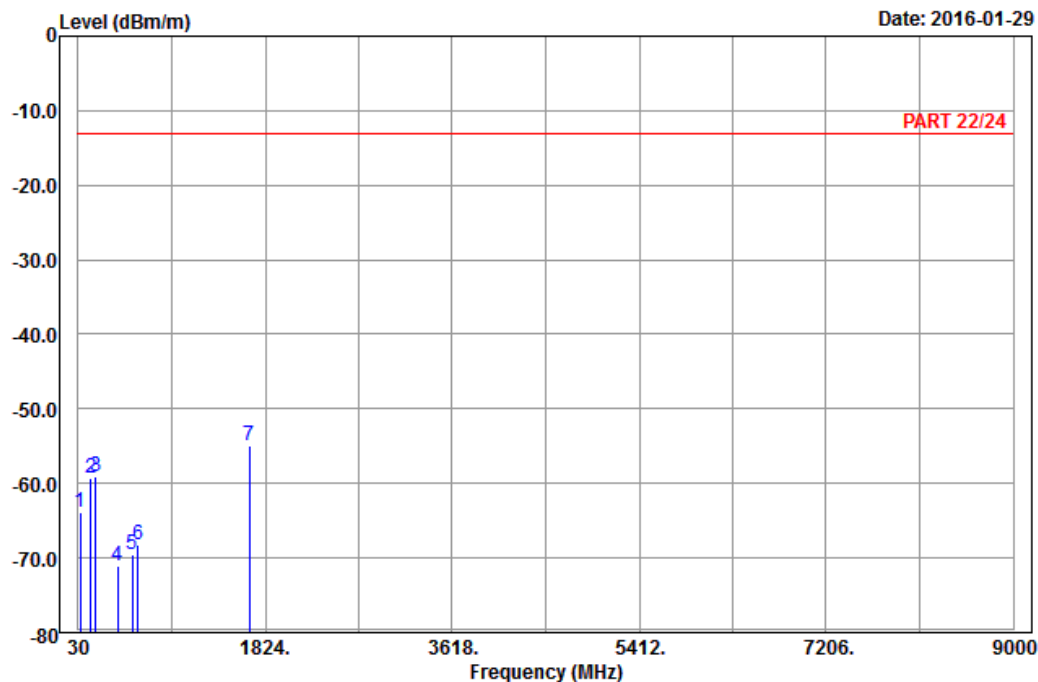


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A D T

Data: 10

Date: 2016-01-29



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : BC 0_Link_CH384
 Tested by: Karl Lee
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	48.09	-63.85	-50.42	-13.00	-50.85	-13.43	Peak
2	154.20	-59.24	-51.40	-13.00	-46.24	-7.84	Peak
3	199.29	-59.15	-52.97	-13.00	-46.15	-6.18	Peak
4	409.20	-70.97	-68.02	-13.00	-57.97	-2.95	Peak
5	552.00	-69.58	-68.00	-13.00	-56.58	-1.58	Peak
6	605.90	-68.27	-68.63	-13.00	-55.27	0.36	Peak
7 pp	1673.04	-54.92	-62.83	-13.00	-41.92	7.91	Peak

LTE Band 5

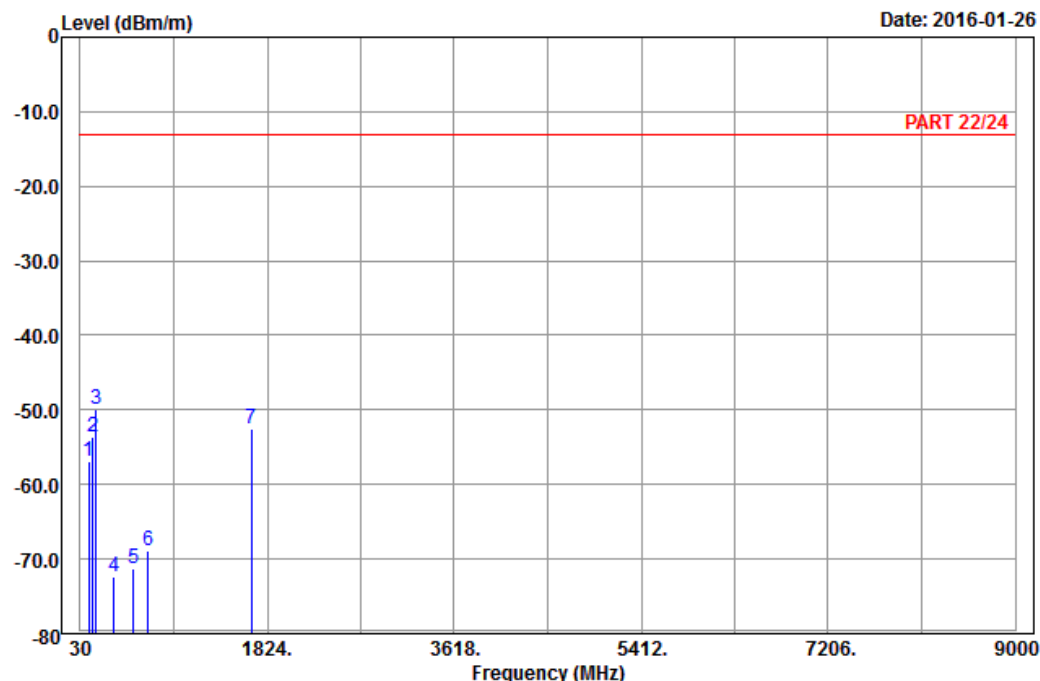
Channel Bandwidth: 10 MHz / QPSK



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A D T

Data: 9



Site : 966 chamber 1
Condition: PART 22/24 3m Horizontal
Remark : LTE_Band 5_QPSK(1,49)_10M_CH20525
Tested by: Chalres Hsiao
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	108.30	-56.88	-47.81	-13.00	-43.88	-9.07	Peak
2	151.50	-53.72	-45.80	-13.00	-40.72	-7.92	Peak
3 pp	179.58	-49.93	-44.25	-13.00	-36.93	-5.68	Peak
4	356.70	-72.39	-67.37	-13.00	-59.39	-5.02	Peak
5	540.10	-71.36	-68.99	-13.00	-58.36	-2.37	Peak
6	681.50	-68.87	-68.58	-13.00	-55.87	-0.29	Peak
7	1673.00	-52.55	-60.46	-13.00	-39.55	7.91	Peak

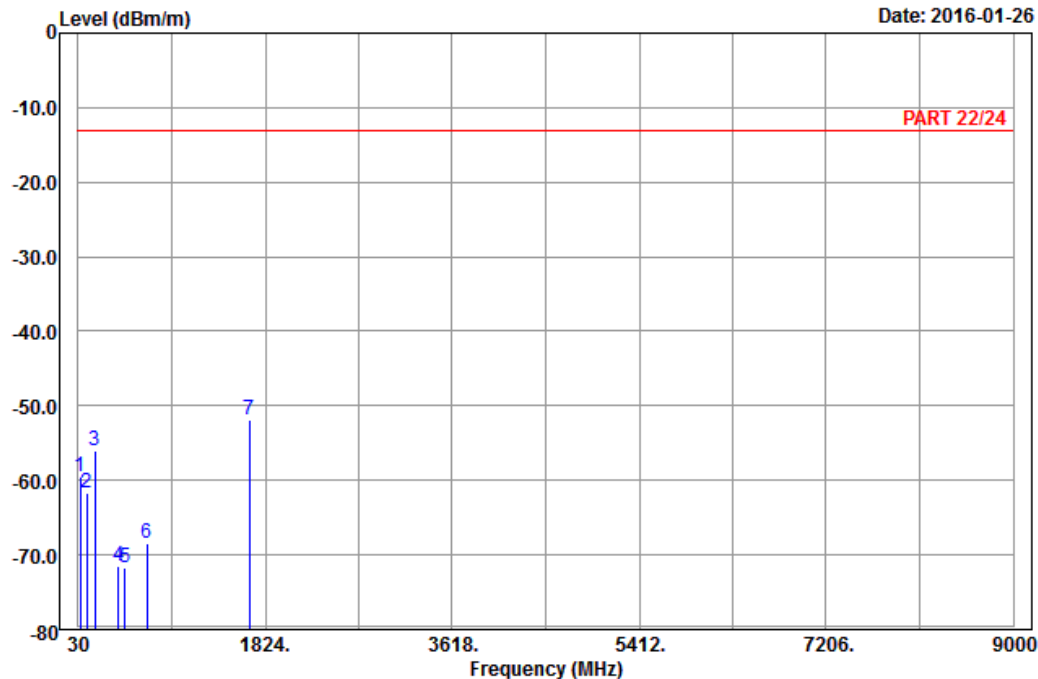


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A D T

Data: 10

Date: 2016-01-26



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : LTE_Band 5_QPSK(1,49)_10M_CH20525
 Tested by: Chalres Hsiao
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	48.09	-59.50	-46.07	-13.00	-46.50	-13.43	Peak
2	109.38	-61.75	-52.80	-13.00	-48.75	-8.95	Peak
3	186.33	-56.08	-50.41	-13.00	-43.08	-5.67	Peak
4	412.70	-71.48	-68.44	-13.00	-58.48	-3.04	Peak
5	478.50	-71.76	-67.11	-13.00	-58.76	-4.65	Peak
6	692.70	-68.37	-68.03	-13.00	-55.37	-0.34	Peak
7 pp	1673.00	-51.97	-59.88	-13.00	-38.97	7.91	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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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

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Tel: 886-3-3183232

Fax: 886-3-3270892

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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