

VARIANT FCC Test Report

(PART 22)

Report No.: RF151015C01A

FCC ID: V65C6742

Test Model: C6742

Received Date: Oct. 15, 2015

Test Date: Oct. 19, 2015 ~ Oct. 21, 2015

Issued Date: Mar. 21, 2016

Applicant: Kyocera Corporation c/o Kyocera Communications, Inc.

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

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(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
RF151015C01A	Original Release	Mar. 21, 2016



1 Certificate of Conformity

Product: UMTS/GSM Bar Phone

Brand: Kyocera

Test Model: C6742

Sample Status: Identical Prototype

Applicant: Kyocera Corporation c/o Kyocera Communications, Inc.

Test Date: Oct. 19, 2015 ~ Oct. 21, 2015

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 : Evonne Liu , **Date:** Mar. 21, 2016
Evonne Liu / Specialist

Approved by : Stanley Wu , **Date:** Mar. 21, 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 -31.91dB at 115.32MHz.

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) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.0153 dB
	200MHz ~ 1000MHz	2.0224 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.0121 dB
	18GHz ~ 40GHz	1.1508 dB

2.2 Test Site And Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 04, 2016
HORN Antenna ETS-Lindgren	3117	00143293	Jan. 05, 2015	Jan. 04, 2016
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. 22, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 22, 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 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 1GHz 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	UMTS/GSM Bar Phone	
Brand	Kyocera	
Test Model	C6742	
Status of EUT	Identical Prototype	
Power Supply Rating	5.0Vdc (adapter or host equipment) 3.8Vdc (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: 1.4MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10MHz)	829 ~ 844 MHz
Max. ERP Power	GSM/GPRS	693.43mW
	EDGE	147.23mW
	WCDMA	119.73mW
	LTE 5 (Channel Bandwidth: 1.4MHz)	123.08mW
	LTE 5 (Channel Bandwidth: 3MHz)	117.81mW
	LTE 5 (Channel Bandwidth: 5MHz)	123.59mW
	LTE 5 (Channel Bandwidth: 10MHz)	115.66mW
Emission Designator	GSM/GPRS	249KGXW
	EDGE	247KG7W
	WCDMA	4M16F9W
	LTE 5 (Channel Bandwidth: 1.4MHz)	1M09G7D
	LTE 5 (Channel Bandwidth: 3MHz)	2M69G7D
	LTE 5 (Channel Bandwidth: 5MHz)	4M49G7D
	LTE 5 (Channel Bandwidth: 10MHz)	8M97W7D
	Antenna Type	Fixed Internal Antenna
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. This is a duplicate report to the original report no.: RF151015C01. The difference compared with the original report is updating operation mode. The EDGE11/12 power had been tested for this addendum and the original test data was kept in this report.

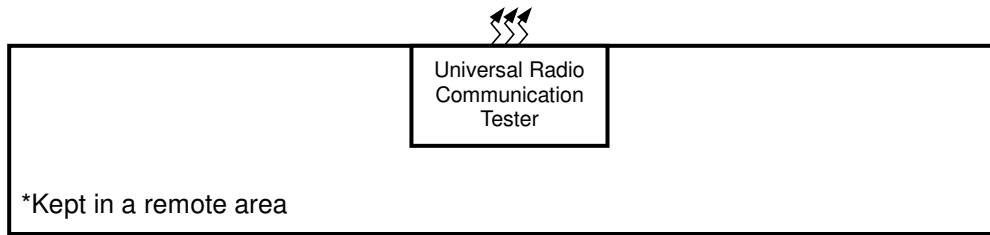
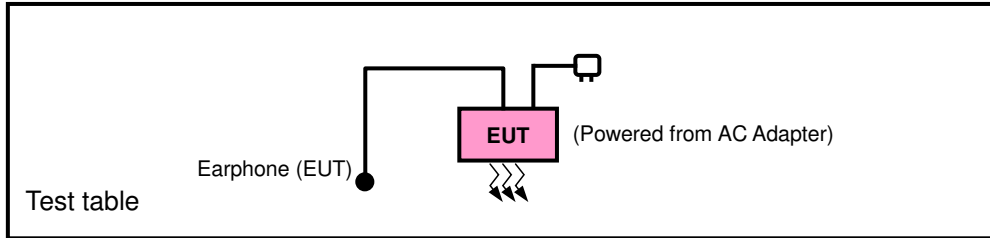
2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	KYOCERA	SCP-47ADT	I/P: 100-240Vac, 50/60Hz, 0.2A O/P: 5Vdc, 1.0A
Battery	KYOCERA	SCP-66LBPS	3.8Vdc, 2200mAh
Earphone	Galien Electron	HF-HBD5D	1.35m non-shielded cable w/o core
USB Cable	KYOCERA	SCP-19SDC	0.5m shielded cable w/o core

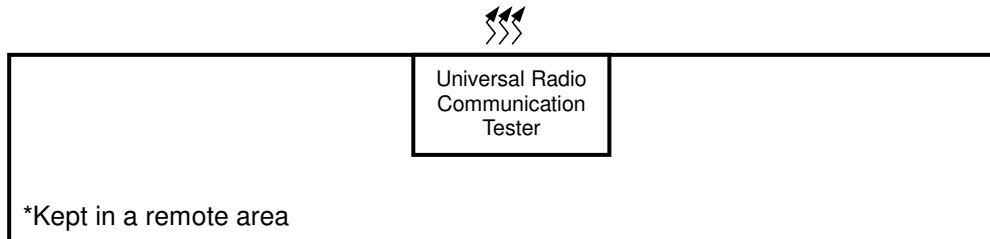
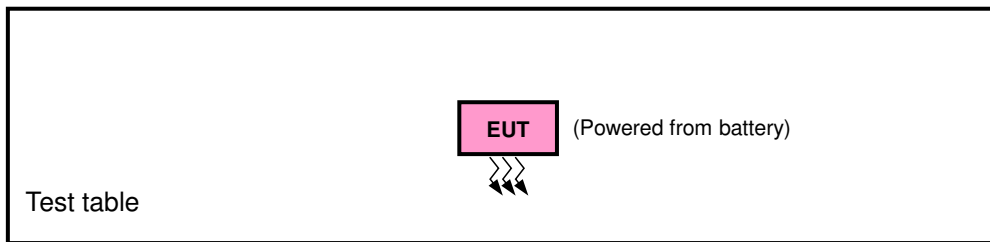
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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
LTE Band 5	Y-plane	X-axis

GSM MODE

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 MODE

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 MODE

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode		
-	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 5 RB Offset		
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 14 RB Offset		
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset		
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset		
-	Frequency Stability	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 5 RB Offset		
		20415 to 20635	20525	3MHz	QPSK	1 RB / 14 RB Offset		
		20425 to 20625	20525	5MHz	QPSK	1 RB / 24 RB Offset		
		20450 to 20600	20525	10MHz	QPSK	1 RB / 49 RB Offset		
-	Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset		
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset		
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
		20450 to 20600	20450, 20525, 20600	10MHz	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		
			20643	1.4MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset		
		20415 to 20635	20415	3MHz	QPSK	1 RB / 0 RB Offset 15 RB / 0 RB Offset		
			20635	3MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset		
		20425 to 20626	20425	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			20600	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		20450 to 20600	20450	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			20600	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		-	Peak To Average Ratio	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
				20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
				20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
				20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
-	Conducted Emission	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 2 RB Offset		
		20415 to 20635	20525	3MHz	QPSK	1 RB / 7 RB Offset		
		20425 to 20625	20525	5MHz	QPSK	1 RB / 12 RB Offset		
		20450 to 20600	20525	10MHz	QPSK	1 RB / 24 RB Offset		
-	Radiated Emission	20450 to 20600	20525	10MHz	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	25deg. C, 65%RH	3.8Vdc	Charles Hsiao
Frequency Stability	25deg. C, 65%RH	3.8Vdc	Taylor Liu
Occupied Bandwidth	25deg. C, 65%RH	3.8Vdc	Taylor Liu
Band Edge	25deg. C, 65%RH	3.8Vdc	Taylor Liu
Peak to Average Ratio	25deg. C, 65%RH	3.8Vdc	Taylor Liu
Conducuted Emission	25deg. C, 65%RH	3.8Vdc	Taylor Liu
Radiated Emission	25deg. C, 65%RH	120Vac, 60Hz	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

ANSI/TIA/EIA-603-C 2004

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

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

4.1.2 Test Procedures

EIRP / ERP Measurement:

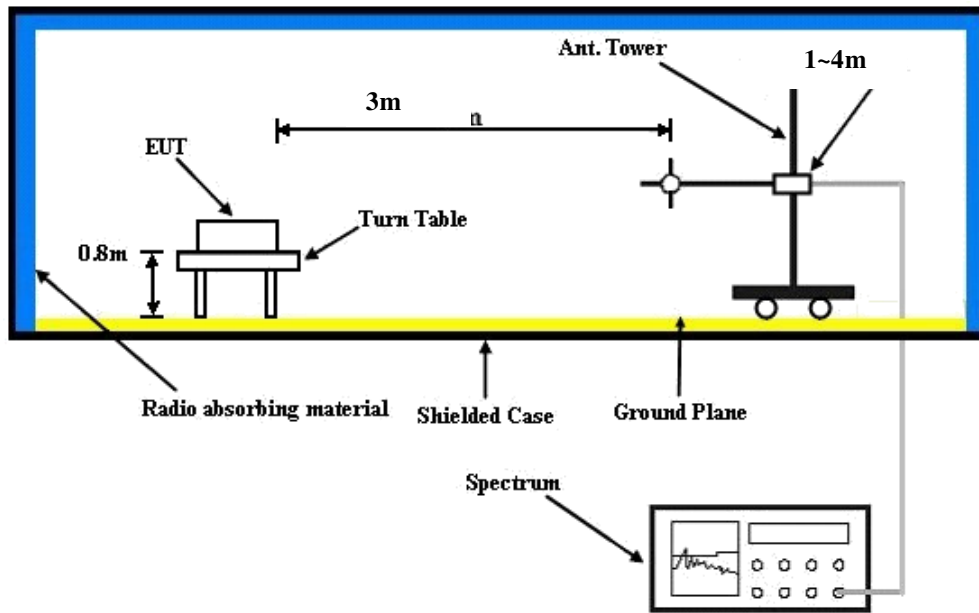
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, and 5MHz for WCDMA & CDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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 form 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.

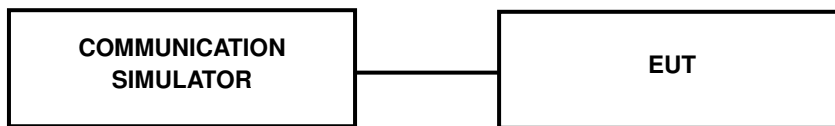
4.1.3 Test Setup

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	33.02	33.12	33.16
GPRS 8	32.85	32.95	32.99
GPRS 10	29.20	29.30	29.34
GPRS 11	27.20	27.30	27.34
GPRS 12	25.92	26.02	26.06
EDGE 8	26.44	26.54	26.58
EDGE 10	26.36	26.46	26.50
EDGE 11	26.10	26.14	26.22
EDGE 12	26.07	26.17	26.18

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.21	24.20	23.70
HSDPA Subtest-1	23.42	23.41	22.91
HSDPA Subtest-2	22.95	22.94	22.44
HSDPA Subtest-3	22.94	22.93	22.43
HSDPA Subtest-4	22.62	22.61	22.11
HSUPA Subtest-1	22.62	22.61	22.11
HSUPA Subtest-2	21.40	21.39	20.89
HSUPA Subtest-3	21.94	21.93	21.43
HSUPA Subtest-4	21.41	21.40	20.90
HSUPA Subtest-5	23.28	23.27	22.77

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	23.86	24.00	23.93	0	22.82	22.99	22.92	1
	1	2	23.65	23.73	23.66	0	22.60	22.72	22.64	1
	1	5	23.60	23.71	23.61	0	22.55	22.66	22.58	1
	3	0	22.96	23.00	22.97	0	21.95	22.00	21.97	1
	3	1	22.85	22.96	22.95	0	21.84	21.93	21.92	1
	3	3	22.74	22.79	22.75	0	21.71	21.75	21.70	1
	6	0	22.77	22.88	22.78	1	21.73	21.86	21.77	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	24.01	24.11	24.03	0	23.00	23.10	23.02	1
	1	7	23.76	23.84	23.82	0	22.75	22.82	22.79	1
	1	14	23.72	23.82	23.76	0	22.67	22.78	22.71	1
	8	0	23.07	23.15	23.11	1	22.06	22.12	22.09	2
	8	3	23.02	23.06	23.04	1	21.99	22.02	22.01	2
	8	7	22.86	22.96	22.92	1	21.81	21.91	21.88	2
	15	0	22.95	23.01	22.99	1	21.92	21.96	21.94	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	24.13	24.22	24.18	0	23.10	23.19	23.17	1
	1	12	23.89	24.00	23.95	0	22.86	22.97	22.90	1
	1	24	23.87	23.97	23.92	0	22.83	22.92	22.87	1
	12	0	23.18	23.25	23.22	1	22.16	22.22	22.21	2
	12	6	23.13	23.19	23.16	1	22.08	22.16	22.12	2
	12	13	23.04	23.10	23.06	1	21.99	22.05	22.01	2
	25	0	23.08	23.14	23.12	1	22.03	22.12	22.10	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	24.33	24.29	0	23.24	23.32	23.25	24.33	1
	1	24	24.12	24.08	0	23.01	23.07	23.03	24.12	1
	1	49	24.10	24.06	0	22.97	23.05	23.01	24.10	1
	25	0	23.37	23.33	1	22.27	22.36	22.31	23.37	2
	25	12	23.32	23.28	1	22.21	22.30	22.24	23.32	2
	25	25	23.24	23.20	1	22.12	22.21	22.15	23.24	2
	50	0	23.27	23.23	1	22.14	22.23	22.21	23.27	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	-1.06	31.208	28.00	630.67	H
	189	836.4	-0.74	31.3	28.41	693.43	
	251	848.8	-0.82	31.222	28.25	668.65	
	128	824.2	-11.22	31.504	18.13	65.07	V
	189	836.4	-10.23	31.117	18.74	74.77	
	251	848.8	-10.97	31.922	18.80	75.89	

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	128	824.2	-7.40	31.208	21.66	146.49	H
	189	836.4	-7.47	31.3	21.68	147.23	
	251	848.8	-7.45	31.222	21.62	145.28	
	128	824.2	-17.71	31.504	11.64	14.60	V
	189	836.4	-17.67	31.117	11.30	13.48	
	251	848.8	-18.70	31.922	11.07	12.80	

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	4132	826.4	-8.70	31.208	20.36	108.59	H
	4182	836.4	-8.77	31.3	20.38	109.14	
	4233	846.6	-8.29	31.222	20.78	119.73	
	4132	826.4	-18.46	31.504	10.89	12.29	V
	4182	836.4	-18.81	31.117	10.16	10.37	
	4233	846.6	-19.58	31.922	10.19	10.45	

LTE Band 5							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20407	824.7	-8.63	31.208	20.43	110.36	H
	20525	836.5	-9.12	31.3	20.03	100.69	
	20643	848.3	-8.17	31.222	20.90	123.08	
	20407	824.7	-18.79	31.504	10.56	11.39	V
	20525	836.5	-18.72	31.117	10.25	10.59	
	20643	848.3	-19.59	31.922	10.18	10.43	

LTE Band 5							
Channel Bandwidth: 1.4MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20407	824.7	-9.21	31.208	19.85	96.56	H
	20525	836.5	-9.57	31.3	19.58	90.78	
	20643	848.3	-9.82	31.222	19.25	84.18	
	20407	824.7	-20.12	31.504	9.23	8.38	V
	20525	836.5	-19.12	31.117	9.85	9.65	
	20643	848.3	-20.21	31.922	9.56	9.04	

LTE Band 5							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20415	825.5	-8.90	31.208	20.16	103.71	H
	20525	836.5	-9.10	31.3	20.05	101.16	
	20635	847.5	-8.36	31.222	20.71	117.81	
	20415	825.5	-18.79	31.504	10.56	11.39	V
	20525	836.5	-18.63	31.117	10.34	10.81	
	20635	847.5	-19.72	31.922	10.05	10.12	

LTE Band 5							
Channel Bandwidth: 3MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20415	825.5	-10.05	31.208	19.01	79.58	H
	20525	836.5	-9.48	31.3	19.67	92.68	
	20635	847.5	-9.83	31.222	19.24	83.98	
	20415	825.5	-20.17	31.504	9.18	8.29	V
	20525	836.5	-19.07	31.117	9.90	9.77	
	20635	847.5	-20.35	31.922	9.42	8.75	

LTE Band 5							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20425	826.5	-8.70	31.208	20.36	108.59	H
	20525	836.5	-8.23	31.3	20.92	123.59	
	20625	846.5	-8.50	31.222	20.57	114.08	
	20425	826.5	-18.97	31.504	10.38	10.92	V
	20525	836.5	-18.78	31.117	10.19	10.44	
	20625	846.5	-19.11	31.922	10.66	11.65	

LTE Band 5							
Channel Bandwidth: 5MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20425	826.5	-10.01	31.208	19.05	80.32	H
	20525	836.5	-9.50	31.3	19.65	92.26	
	20625	846.5	-9.86	31.222	19.21	83.41	
	20425	826.5	-20.14	31.504	9.21	8.34	V
	20525	836.5	-19.31	31.117	9.66	9.24	
	20625	846.5	-20.47	31.922	9.30	8.52	

LTE Band 5							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20450	829.0	-8.78	31.208	20.28	106.61	H
	20525	836.5	-9.05	31.3	20.10	102.33	
	20600	844.0	-8.44	31.222	20.63	115.66	
	20450	829.0	-18.86	31.504	10.49	11.20	V
	20525	836.5	-18.88	31.117	10.09	10.20	
	20600	844.0	-18.91	31.922	10.86	12.20	

LTE Band 5							
Channel Bandwidth: 10MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20450	829.0	-9.34	31.208	19.72	93.71	H
	20525	836.5	-10.09	31.3	19.06	80.54	
	20600	844.0	-9.66	31.222	19.41	87.34	
	20450	829.0	-19.46	31.504	9.89	9.76	V
	20525	836.5	-19.21	31.117	9.76	9.46	
	20600	844.0	-20.24	31.922	9.53	8.98	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

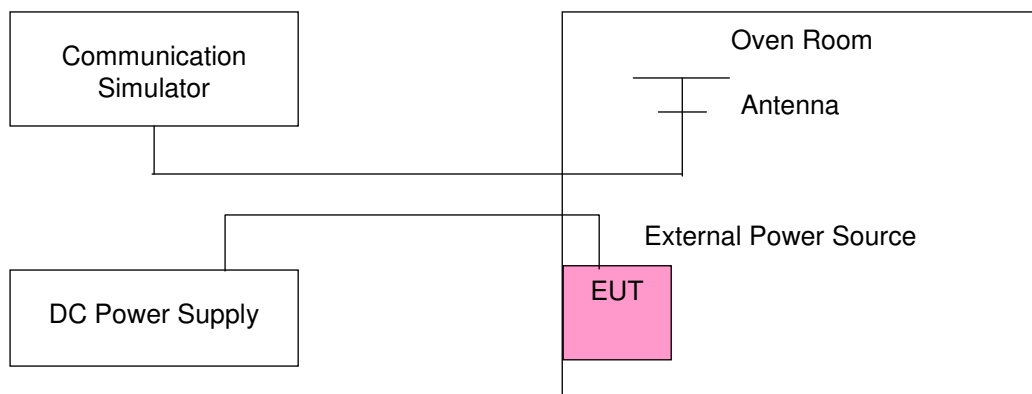
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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				
				1.4MHz	3MHz	5MHz	10MHz	
3.8	0.002	0.003	0.004	0.00143	0.00275	0.00120	0.00239	2.5
3.4	0.004	0.000	0.002	0.00036	0.00215	0.00084	0.00430	2.5
4.35	0.003	0.002	0.003	0.00335	0.00454	0.00442	0.00132	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.4Vdc to 4.35Vdc.

Frequency Error vs. Temperature

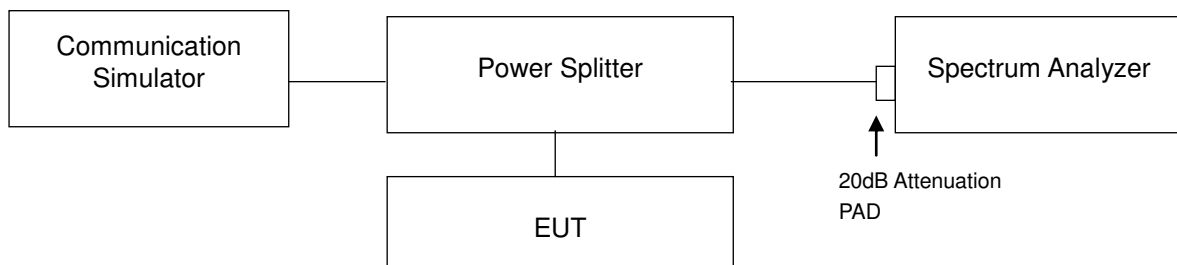
Temp. (°C)	Frequency Error (ppm)							Limit (ppm)
	GSM	EDGE	WCDMA	LTE Band 5				
				1.4MHz	3MHz	5MHz	10MHz	
-30	0.002	0.001	0.002	0.00060	0.00036	0.00287	0.00311	2.5
-20	0.005	0.001	-0.001	0.00275	0.00335	-0.00036	0.00179	2.5
-10	0.003	0.001	0.000	0.00478	-0.00203	-0.00179	-0.00048	2.5
0	0.004	0.000	-0.004	0.00299	-0.00406	-0.00203	-0.00108	2.5
10	0.002	-0.001	-0.003	0.00120	-0.00395	-0.00311	-0.00263	2.5
20	0.000	-0.002	-0.005	-0.00442	-0.00239	0.00263	-0.00383	2.5
30	-0.004	-0.004	0.004	-0.00191	-0.00383	0.00275	-0.00108	2.5
40	-0.001	-0.002	0.003	-0.00251	0.00287	0.00395	0.00454	2.5
50	-0.004	0.004	0.001	-0.00143	0.00096	0.00167	0.00347	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

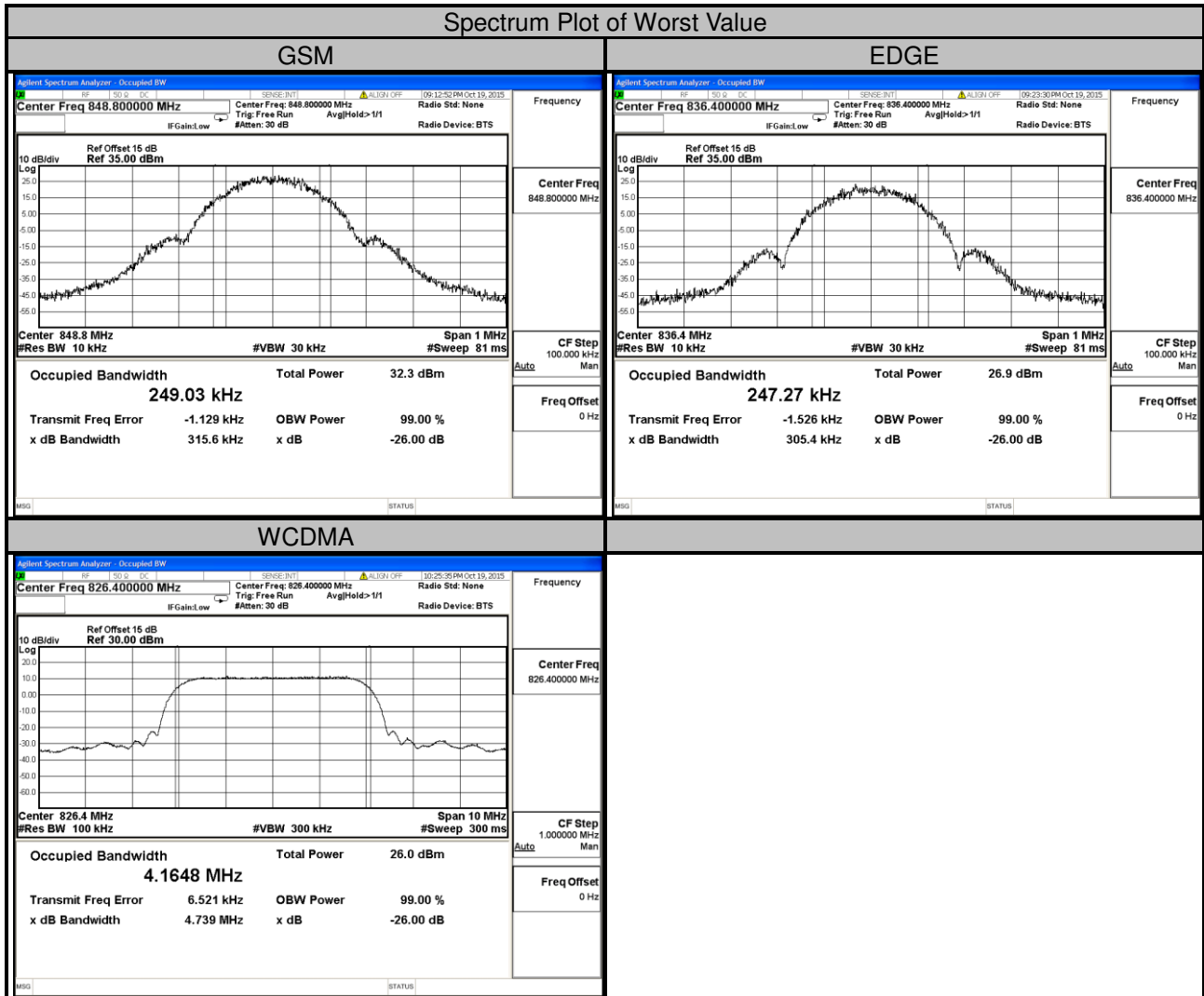
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.3.2 Test Setup



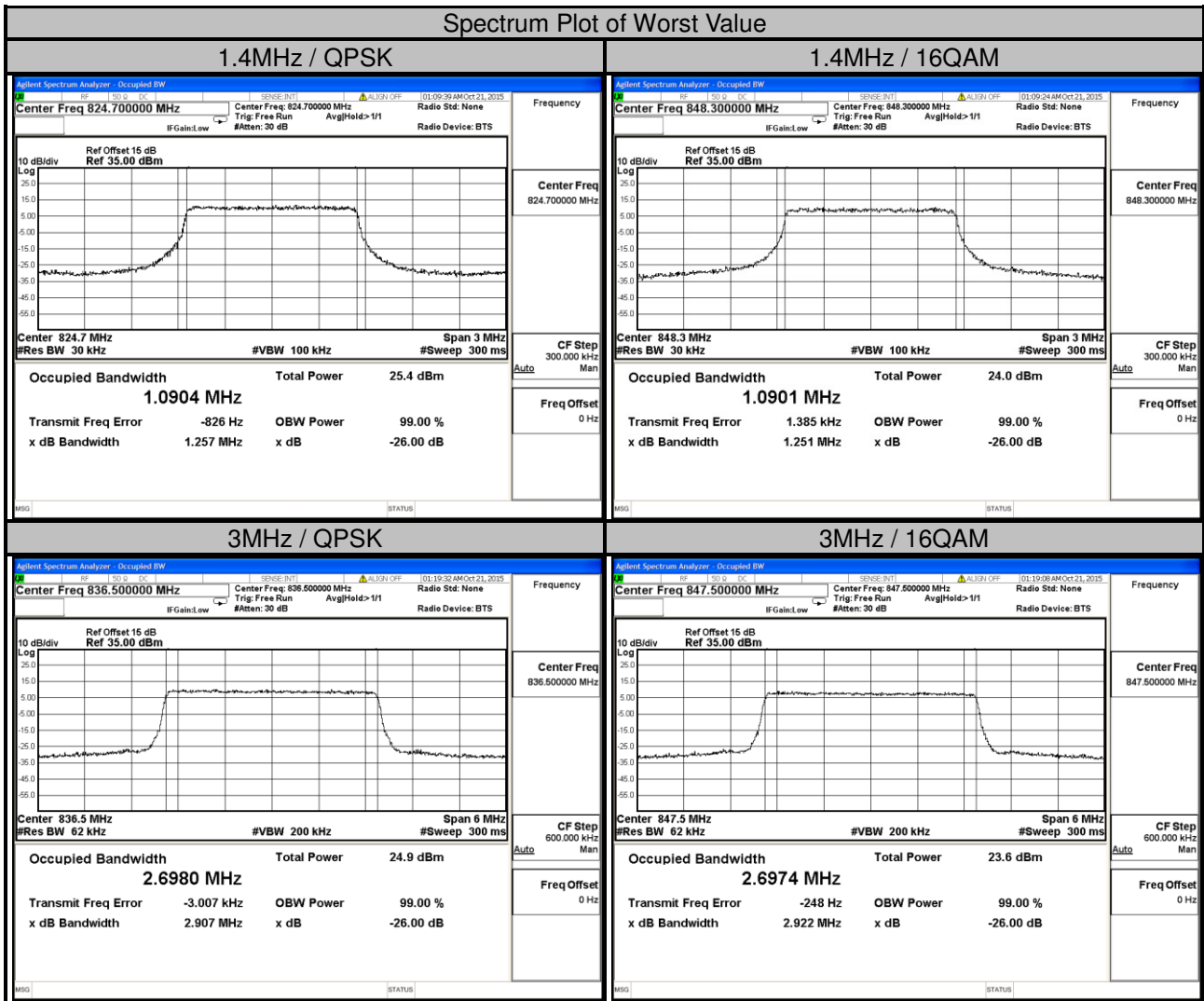
4.3.3 Test Result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
		GSM	EDGE			
128	824.2	246.49	245.75	4132	826.4	4.1648
189	836.4	245.90	247.27	4182	836.4	4.1635
251	848.8	249.03	244.62	4233	846.6	4.1478





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	1.0904	1.0895	20415	825.5	2.6944	2.6957
20525	836.5	1.0900	1.0876	20525	836.5	2.6980	2.6963
20643	848.3	1.0899	1.0901	20635	847.5	2.6922	2.6974





LTE Band 5							
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	4.4922	4.4936	20450	829.0	8.9423	8.9467
20525	836.5	4.4959	4.4973	20525	836.5	8.9750	8.9629
20625	846.5	4.4949	4.4910	20600	844.0	8.9567	8.9507

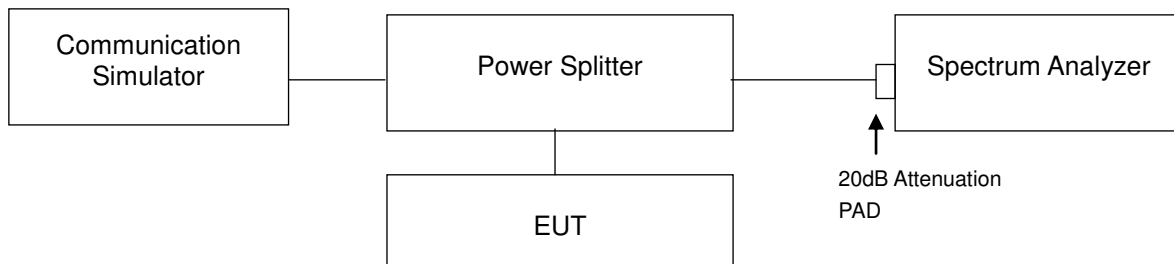


4.4 Band Edge Measurement

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



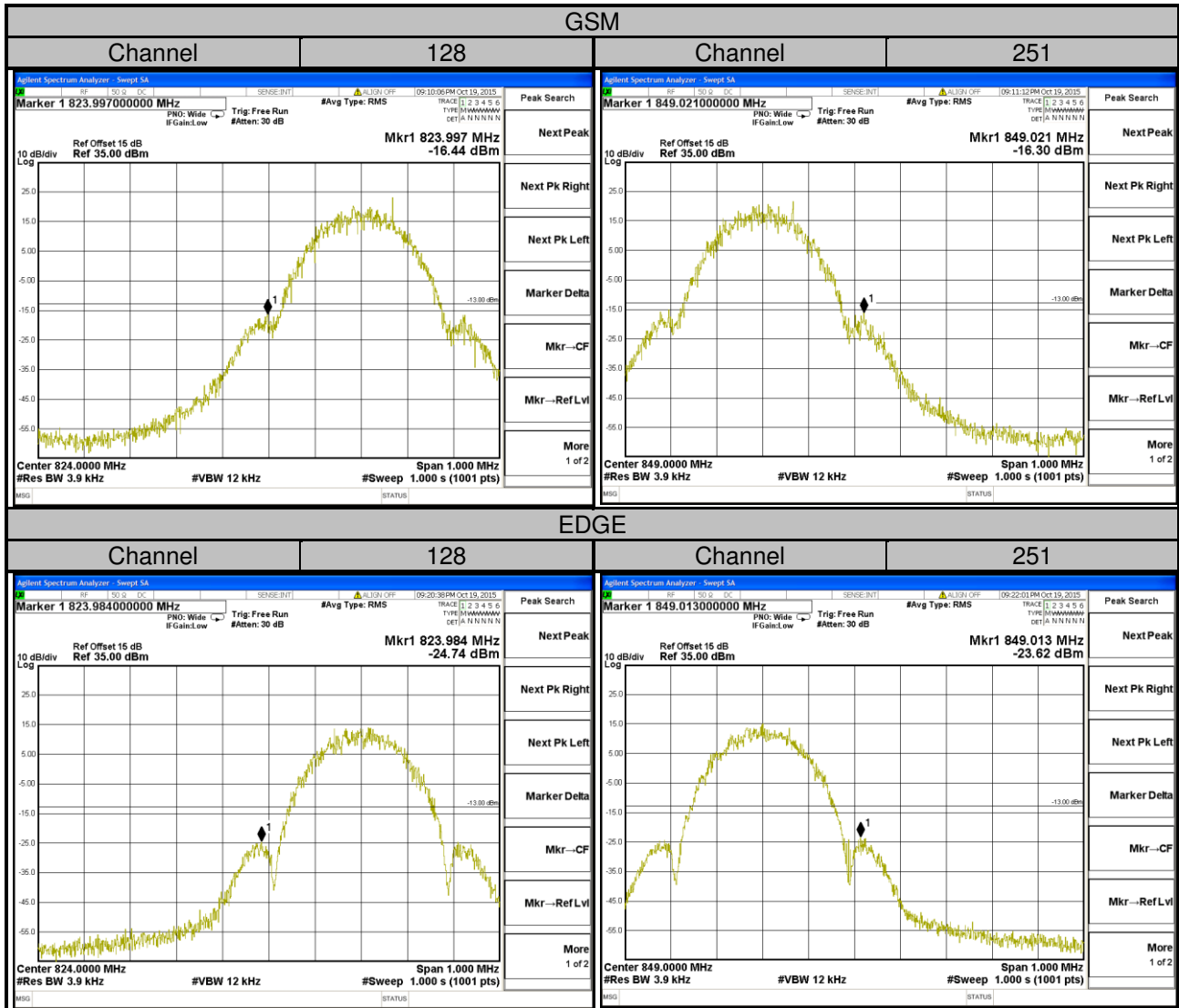
4.4.3 Test Procedures

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3.9kHz and VB of the spectrum is 12kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Bandwidth 1.4MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Bandwidth 3MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Bandwidth 5MHz/10MHz).
- g. Record the max trace plot into the test report.



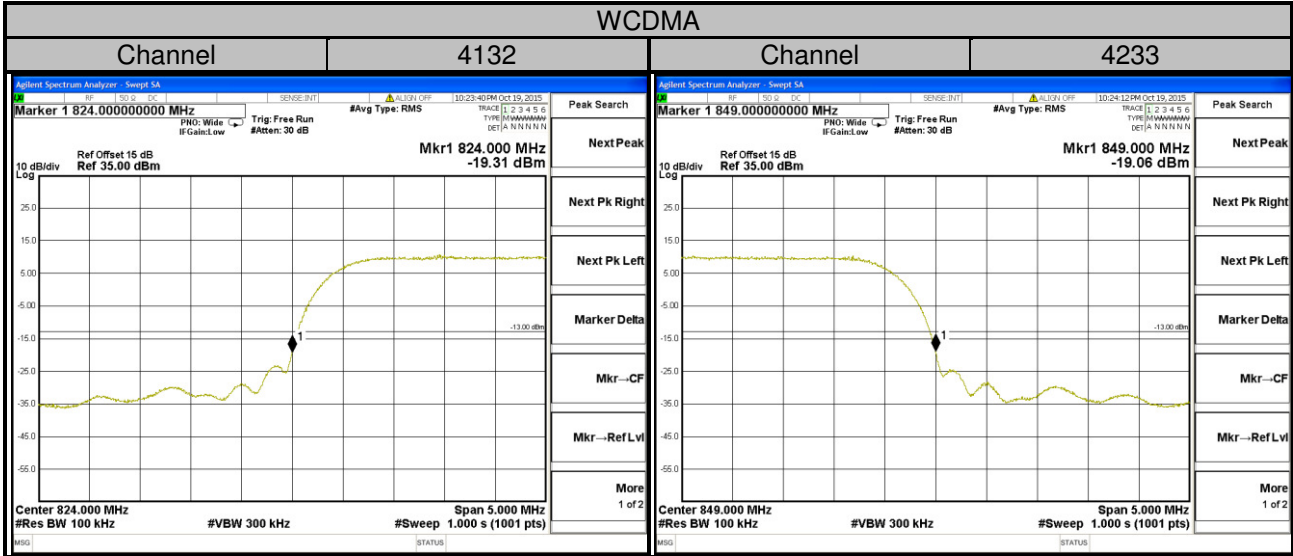
A D T

4.4.4 Test Results





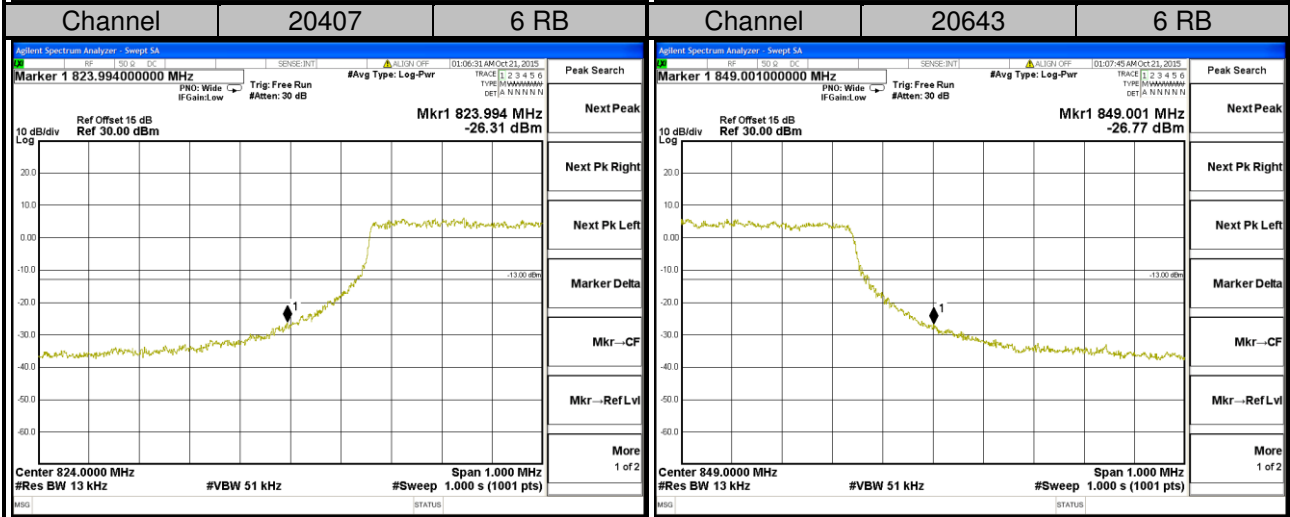
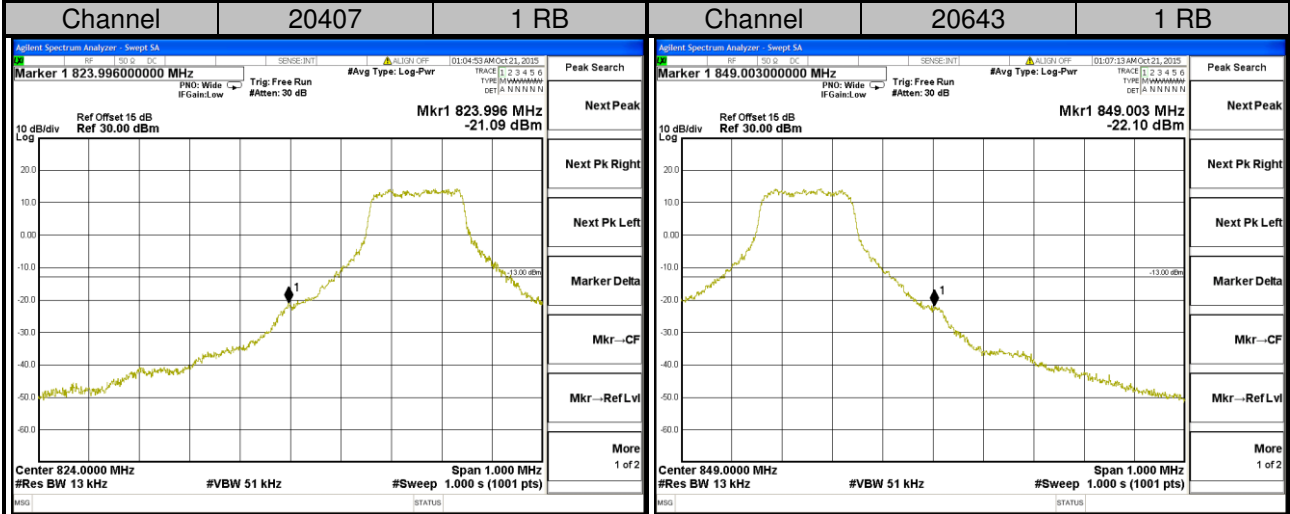
A D T





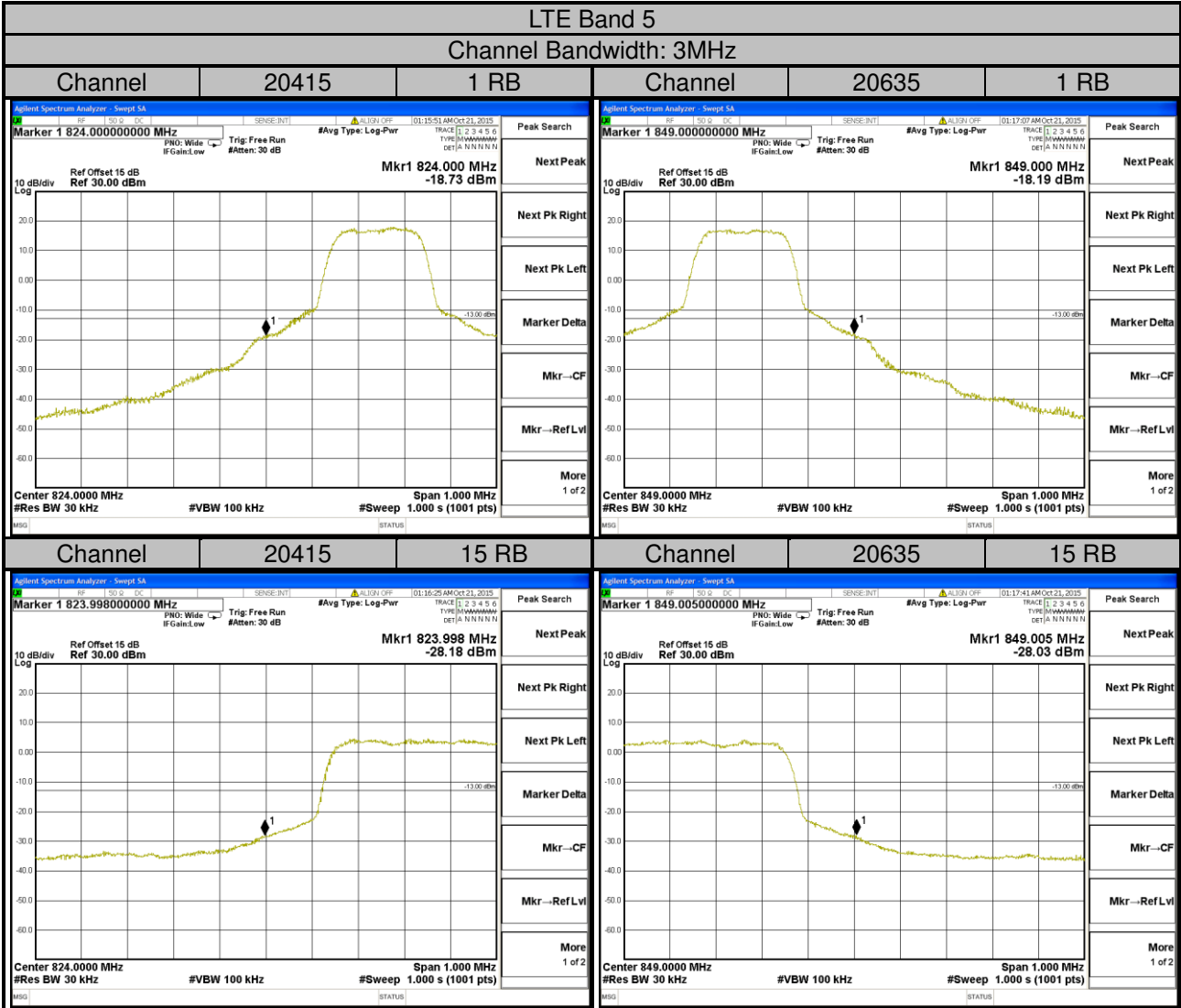
A D T

LTE Band 5
Channel Bandwidth: 1.4MHz





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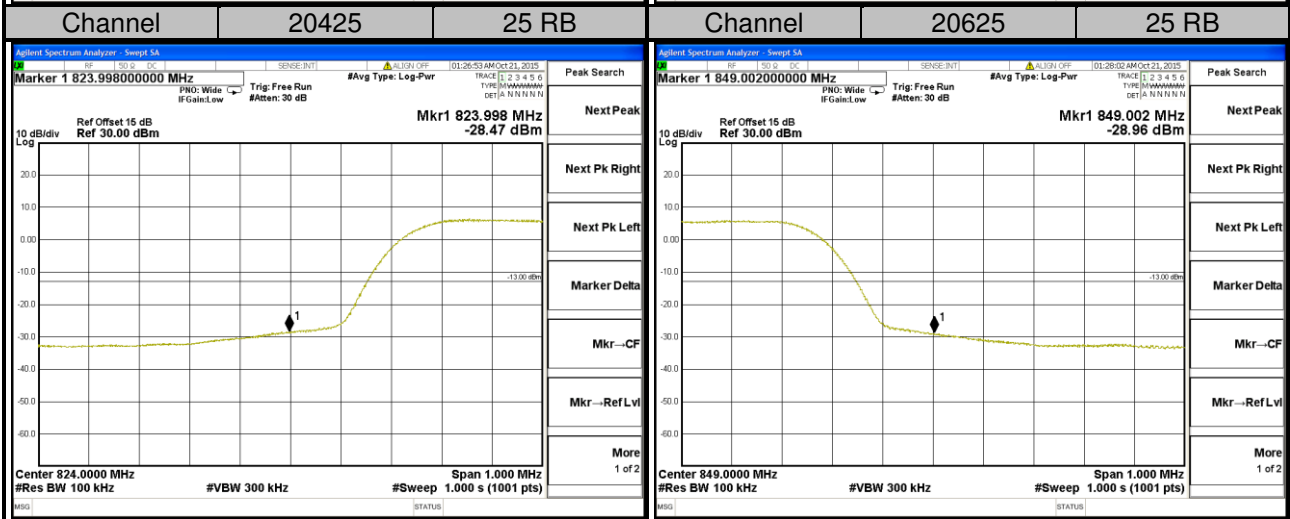
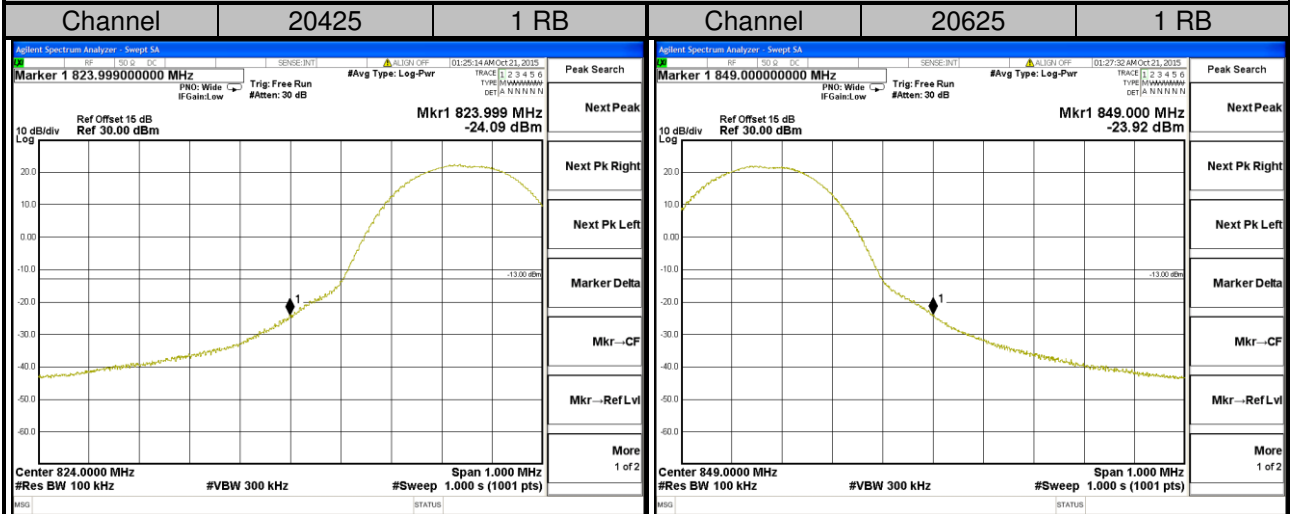




A D T

LTE Band 5

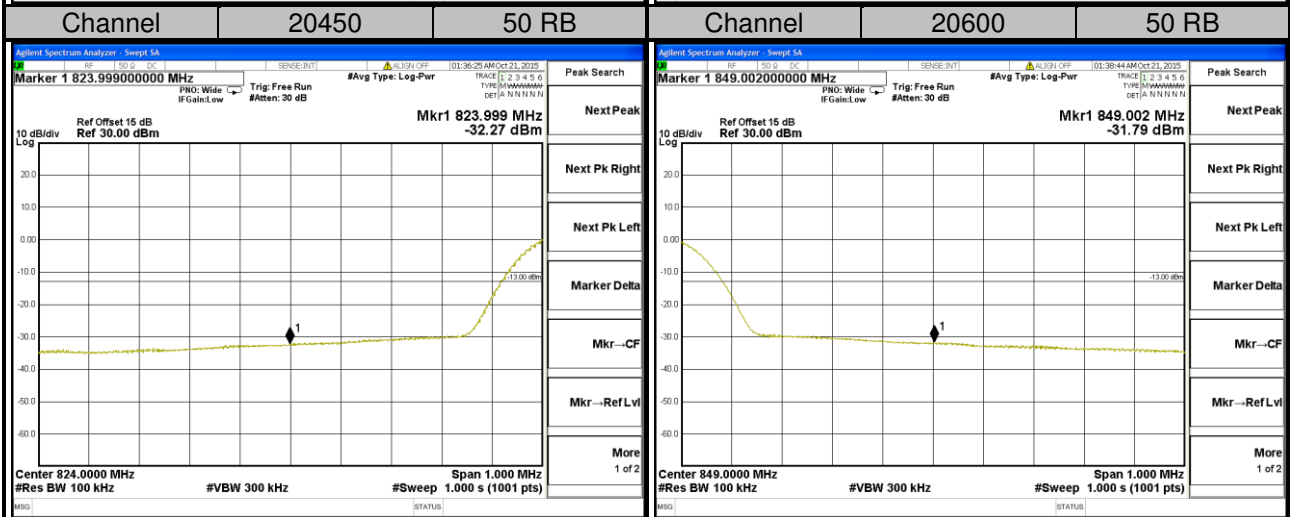
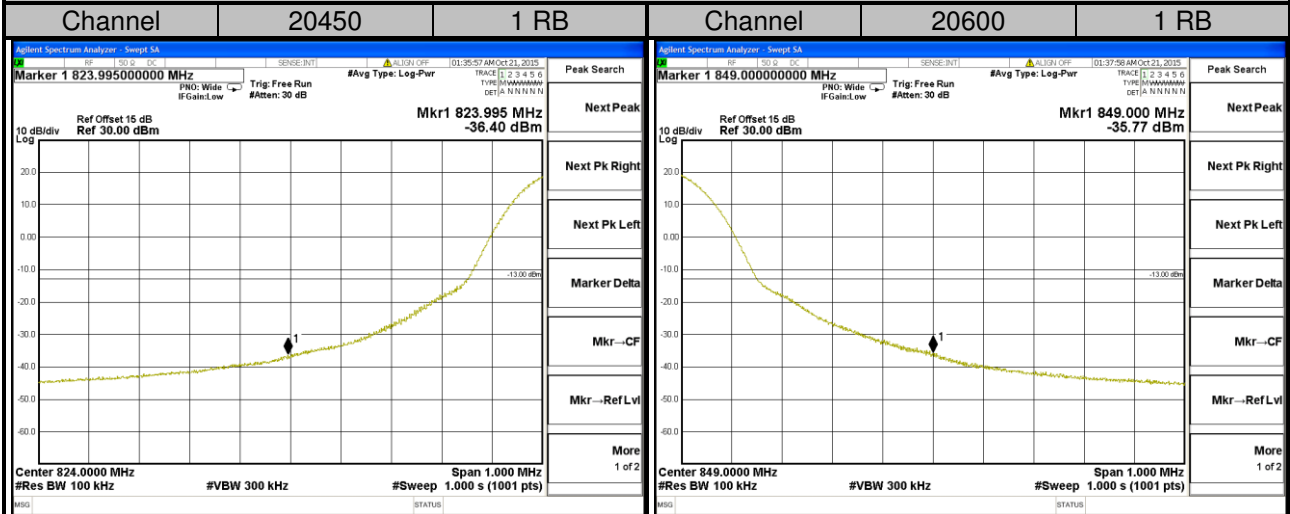
Channel Bandwidth: 5MHz





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LTE Band 5 Channel Bandwidth: 10MHz

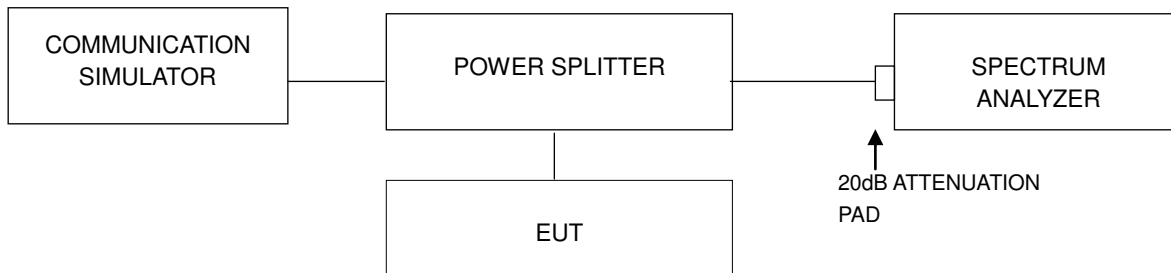


4.5 Peak To Average Ratio

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

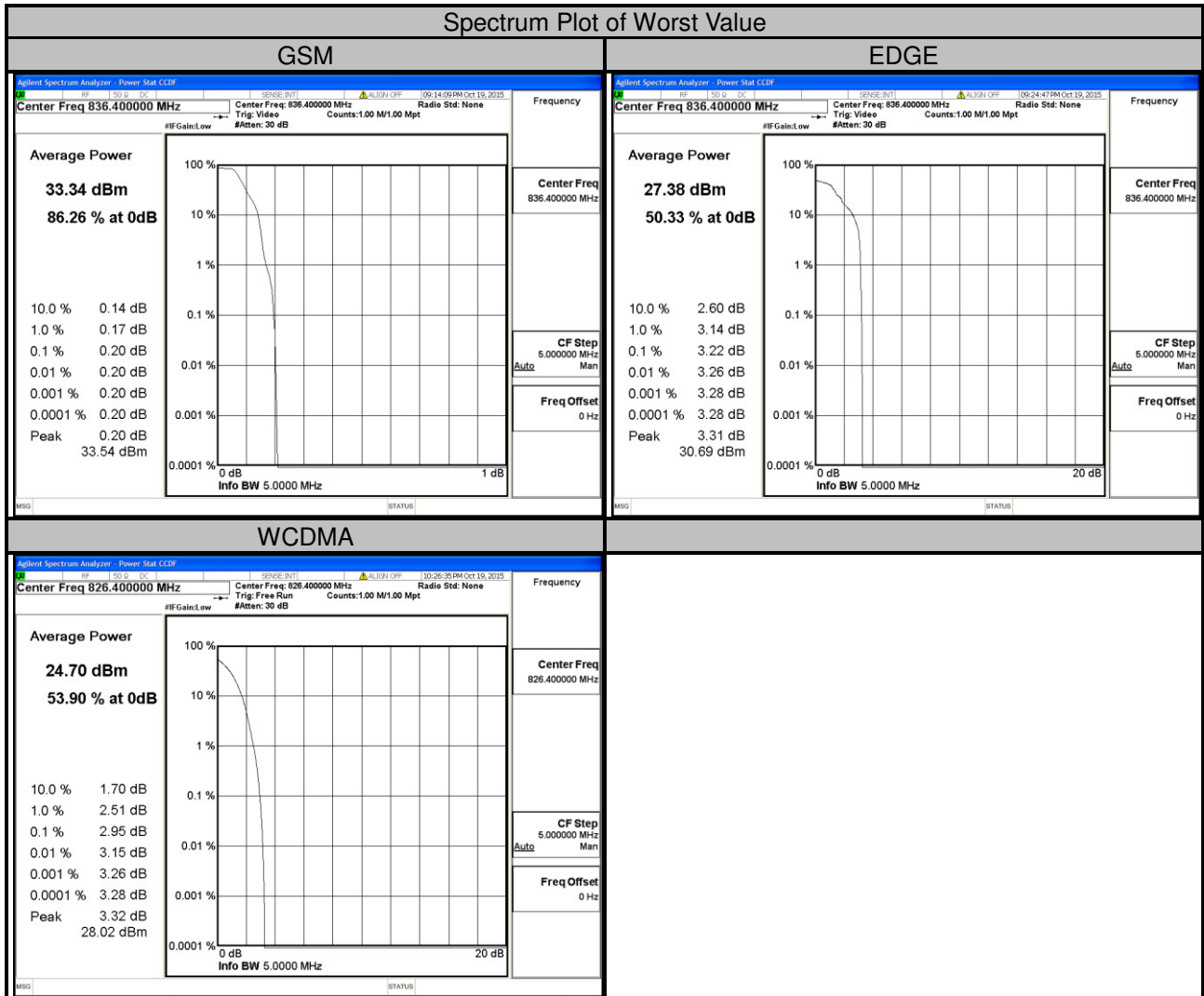


4.5.3 Test Procedures

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%.

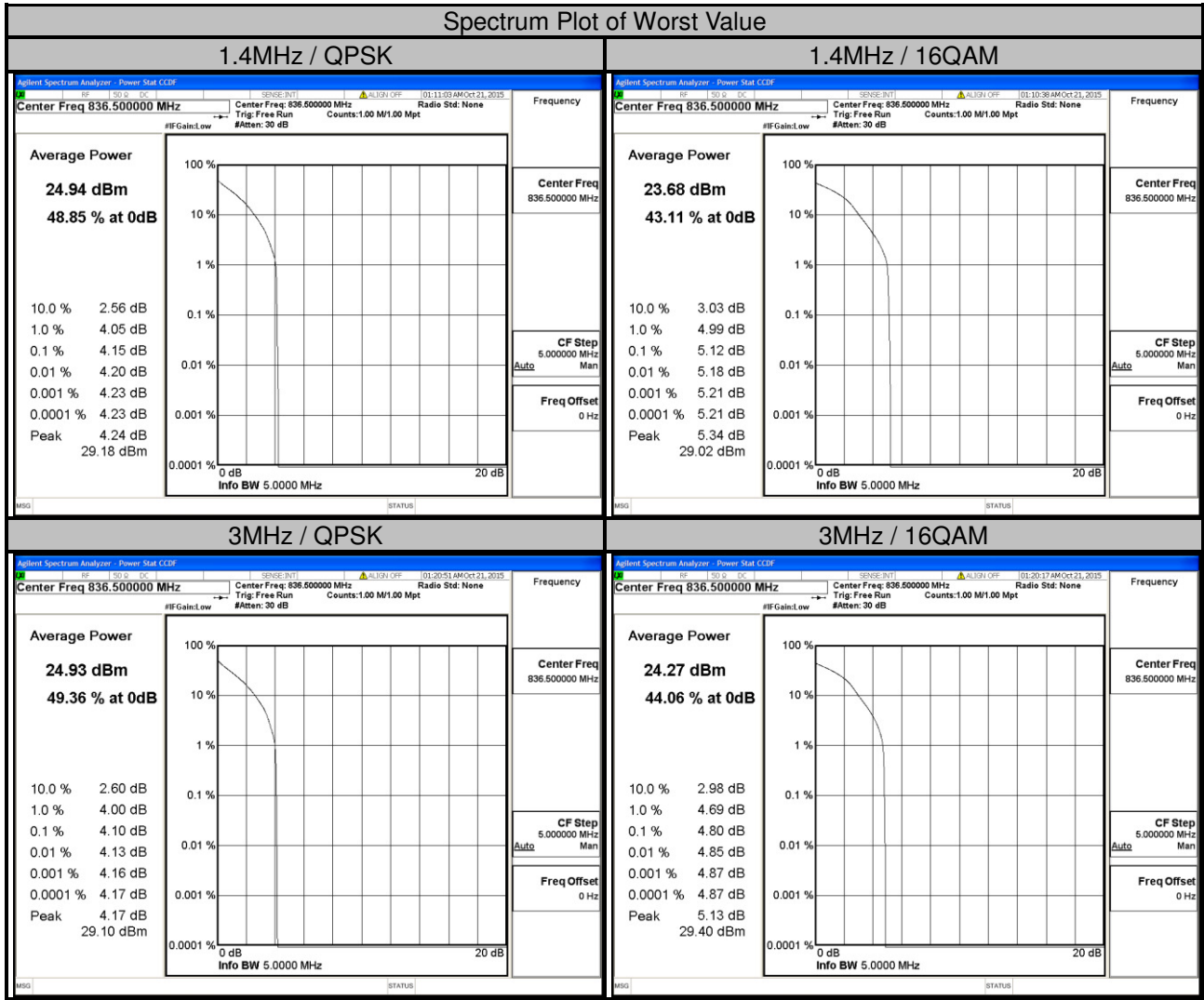
4.5.4 Test Results

Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		GSM	EDGE			
128	824.2	0.19	3.19	4132	826.4	2.95
189	836.4	0.20	3.22	4182	836.4	2.94
251	848.8	0.20	3.14	4233	846.6	2.89

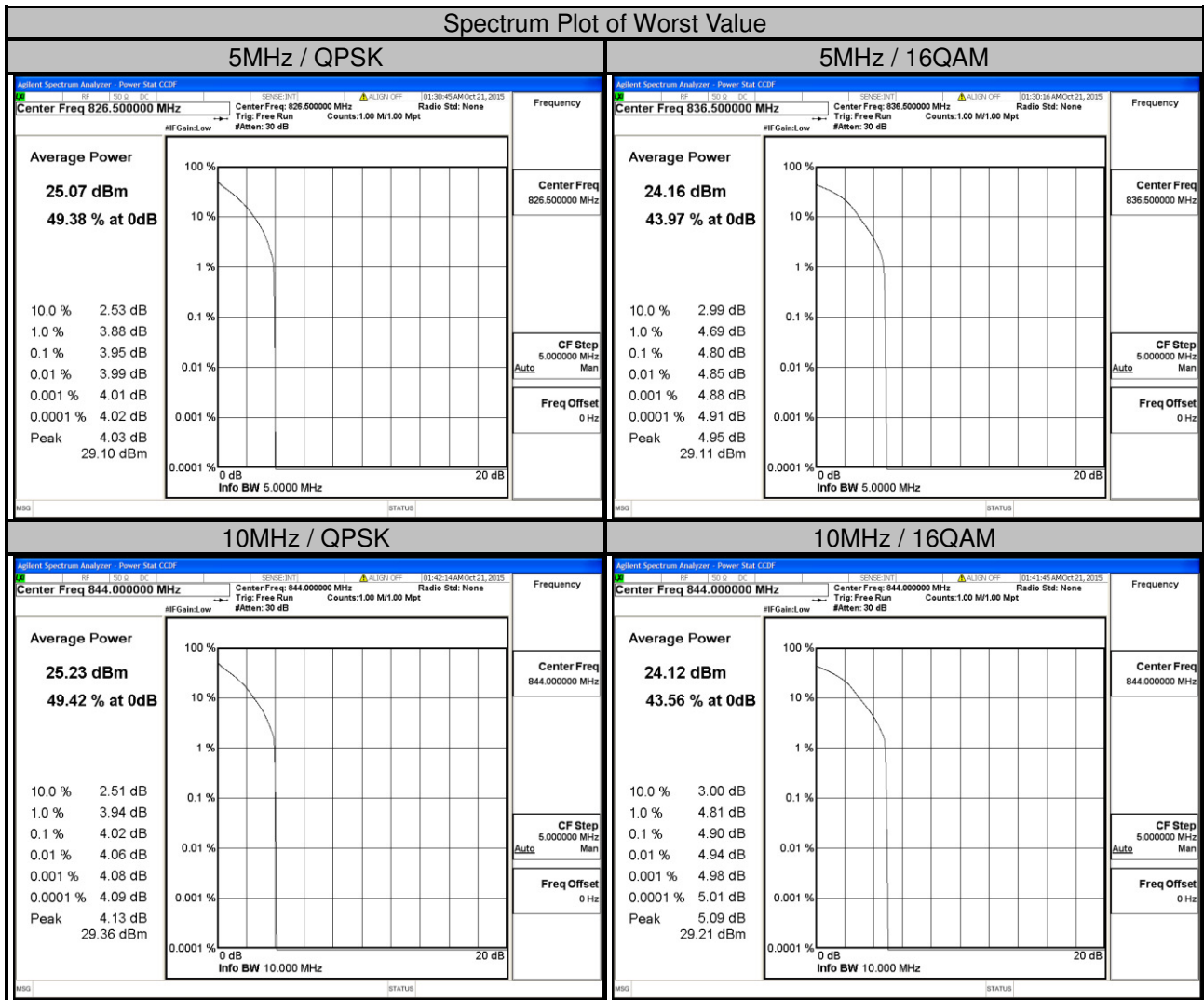




LTE Band 5							
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	4.02	4.86	20415	825.5	3.95	4.71
20525	836.5	4.15	5.12	20525	836.5	4.10	4.80
20643	848.3	3.71	4.55	20635	847.5	3.72	4.57



LTE Band 5							
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	3.95	4.69	20450	829.0	3.96	4.75
20525	836.5	3.93	4.80	20525	836.5	3.71	4.61
20625	846.5	3.77	4.71	20600	844.0	4.02	4.90

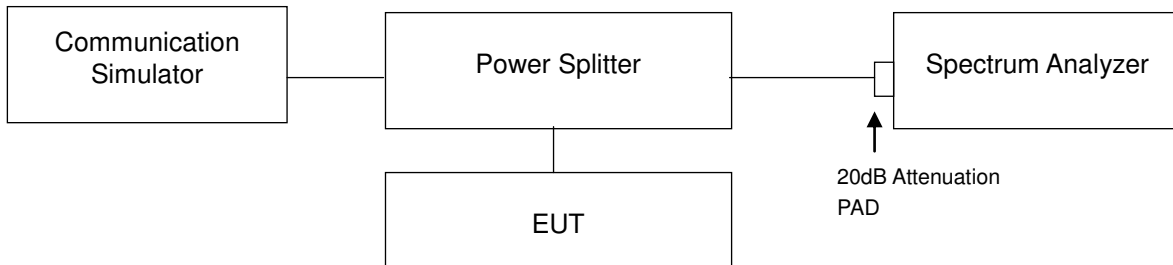


4.6 Conducted Spurious Emissions

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.

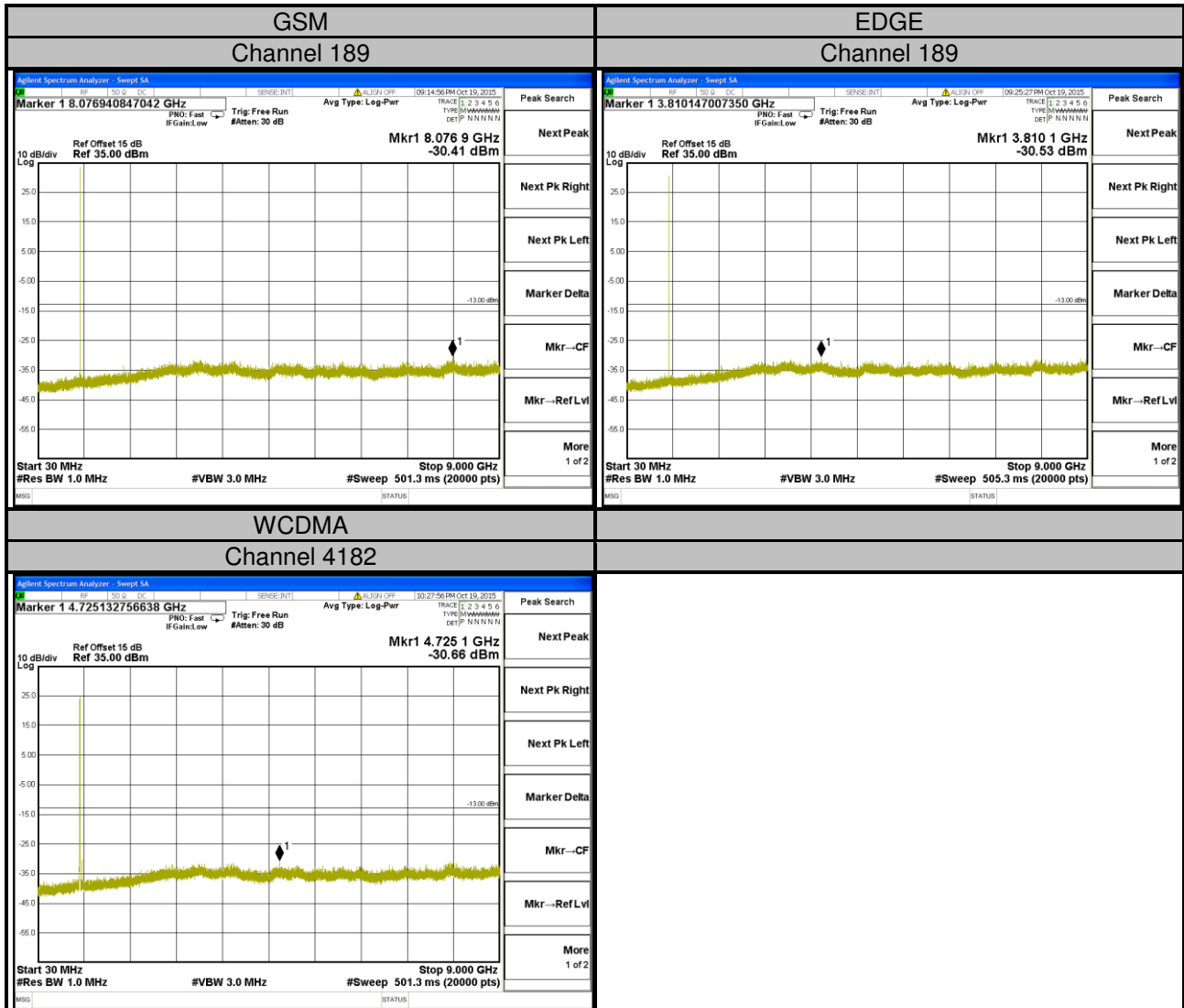
4.6.2 Test Setup



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 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.6.4 Test Results



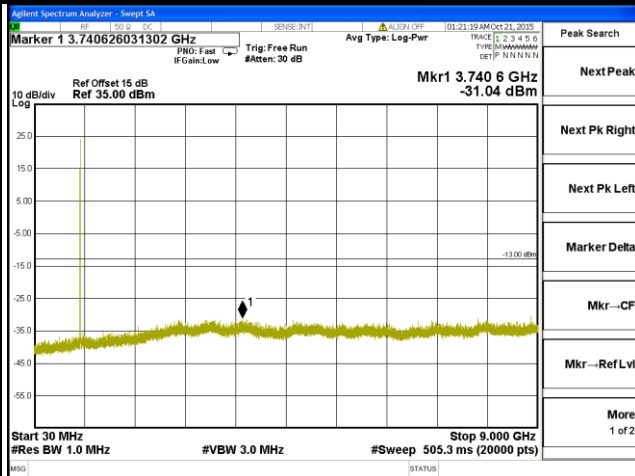
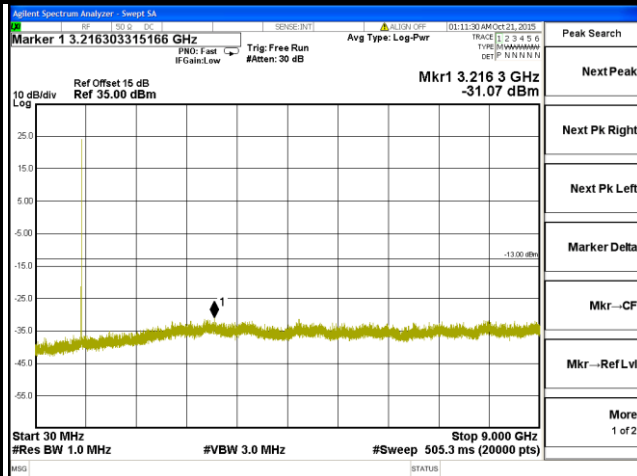


A D T

LTE Band 5
Channel 20525

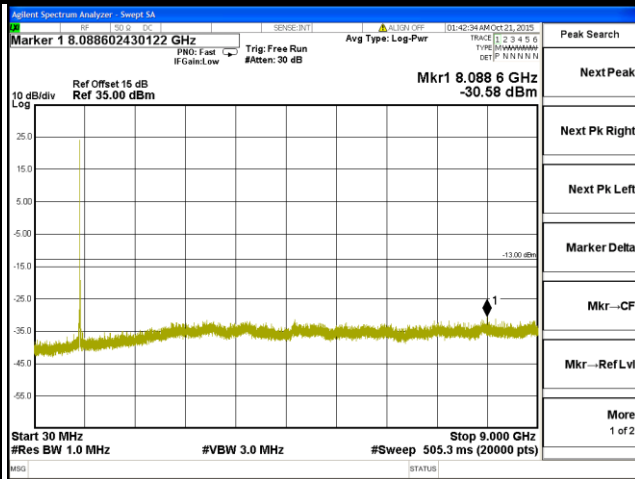
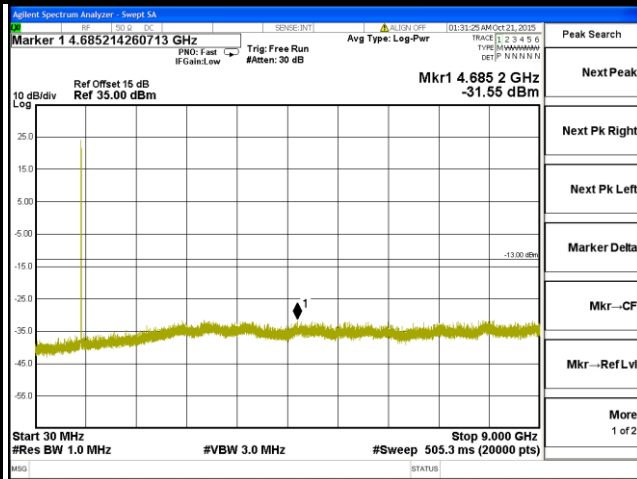
Channel Bandwidth: 1.4MHz

Channel Bandwidth: 3MHz



Channel Bandwidth: 5MHz

Channel Bandwidth: 10MHz



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

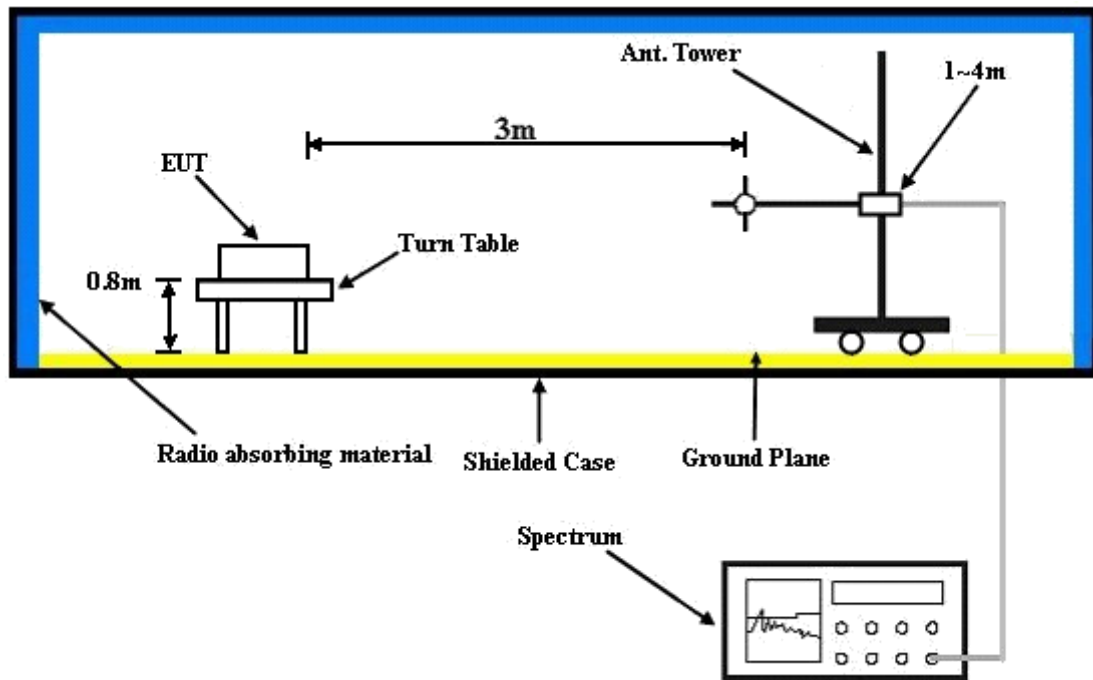
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

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:

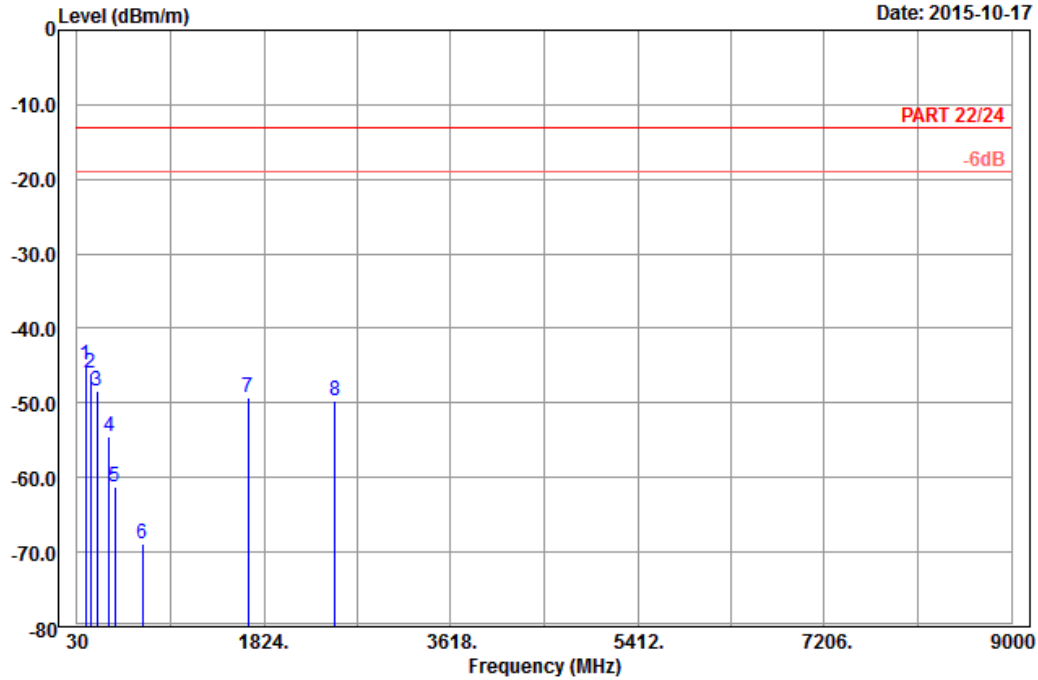


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2015-10-17



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 pp	115.32	-44.91	-36.34	-13.00	-31.91	-8.57	Peak
2	162.30	-45.90	-38.43	-13.00	-32.90	-7.47	Peak
3	217.38	-48.30	-42.35	-13.00	-35.30	-5.95	Peak
4	336.40	-54.51	-48.98	-13.00	-41.51	-5.53	Peak
5	388.90	-61.24	-57.93	-13.00	-48.24	-3.31	Peak
6	654.90	-68.83	-68.67	-13.00	-55.83	-0.16	Peak
7	1672.80	-49.36	-57.27	-13.00	-36.36	7.91	Peak
8	2509.20	-49.78	-61.06	-13.00	-36.78	11.28	Peak

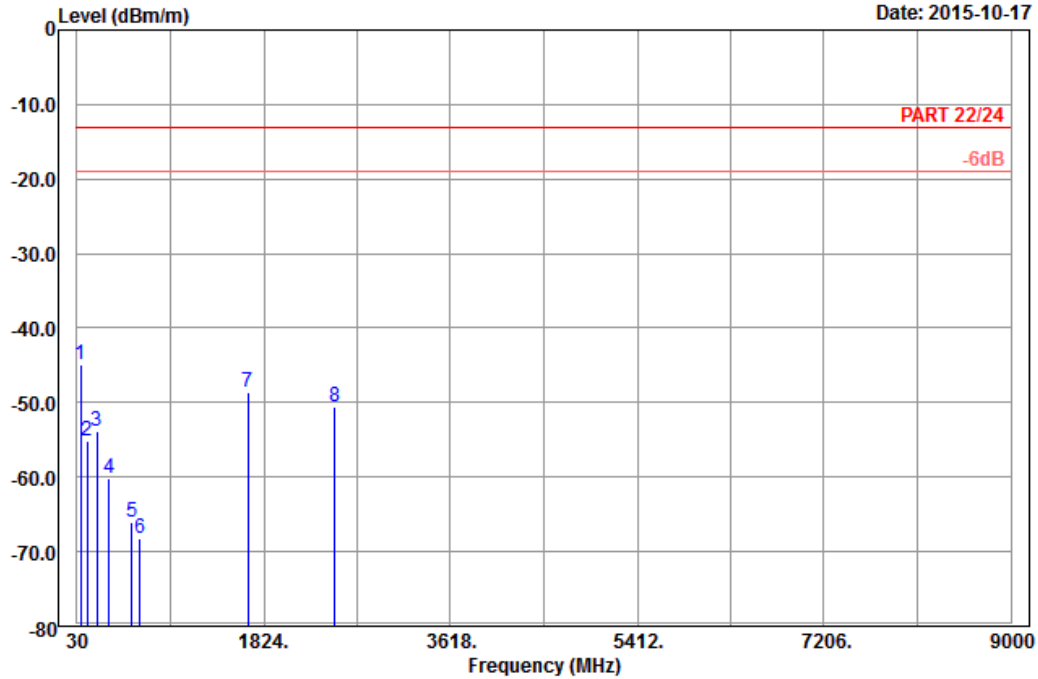


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2015-10-17



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	pp	64.83	-44.95	-31.57	-13.00	-31.95	-13.38 Peak
2		126.66	-55.06	-47.23	-13.00	-42.06	-7.83 Peak
3		222.24	-53.82	-47.94	-13.00	-40.82	-5.88 Peak
4		335.00	-60.26	-54.70	-13.00	-47.26	-5.56 Peak
5		560.40	-66.01	-64.79	-13.00	-53.01	-1.22 Peak
6		636.00	-68.28	-68.30	-13.00	-55.28	0.02 Peak
7		1672.80	-48.64	-56.55	-13.00	-35.64	7.91 Peak
8		2509.20	-50.58	-61.86	-13.00	-37.58	11.28 Peak

EDGE:

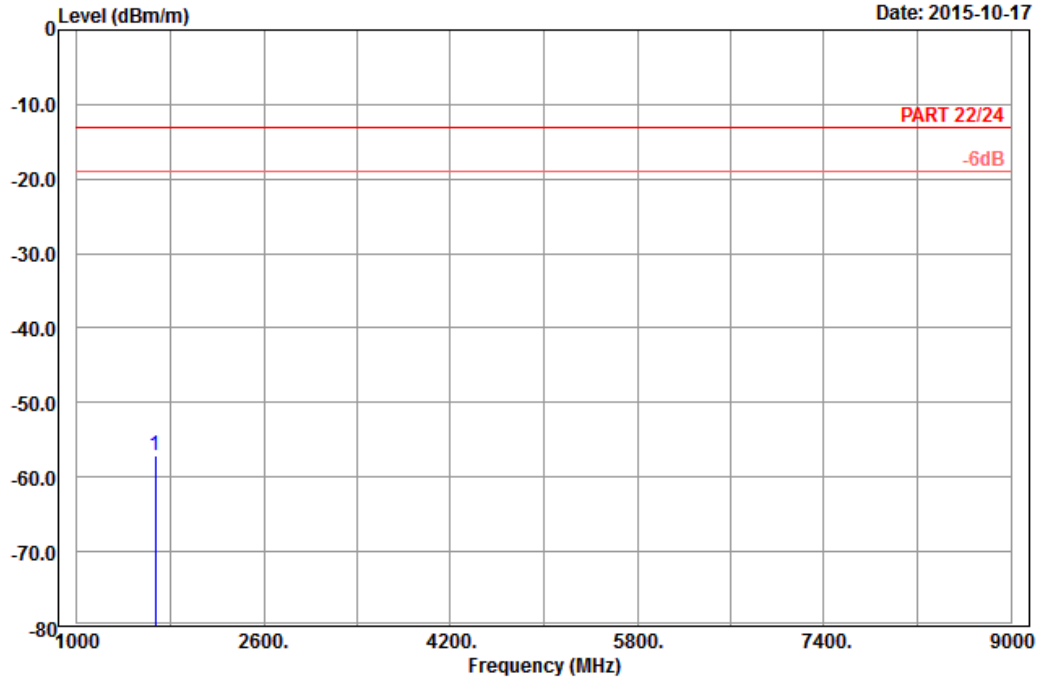


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2015-10-17



Site : 966 chamber 1
 Condition: PART 22/24 3m Horizontal
 Remark : EDGE 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	pp 1672.80	-57.22	-65.13	-13.00	-44.22	7.91	Peak



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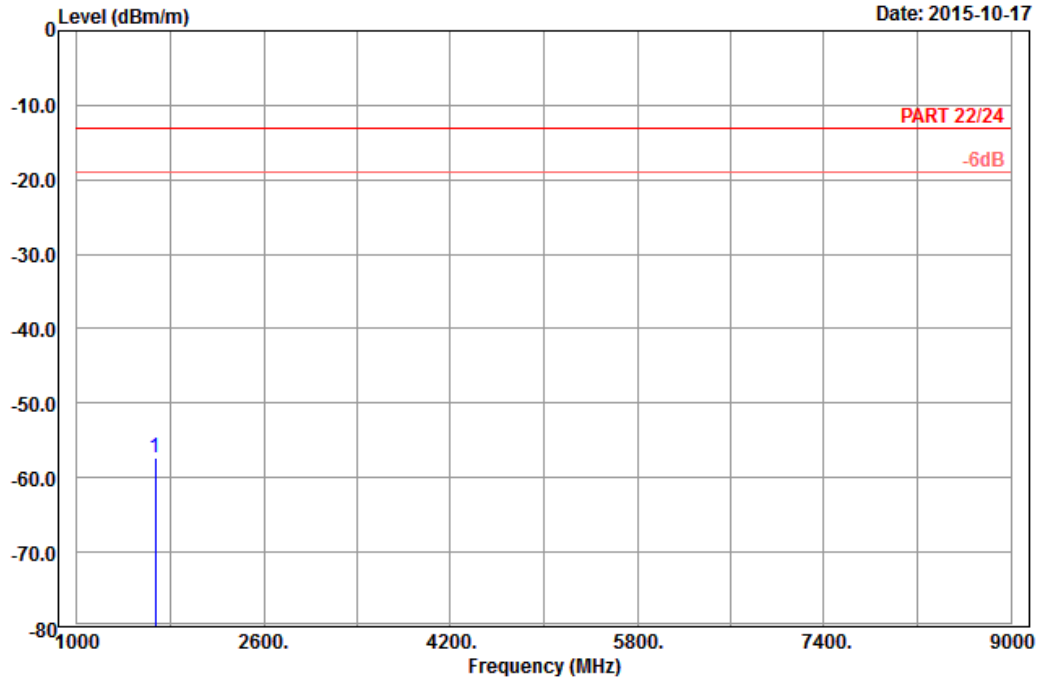


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2015-10-17



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : EDGE 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	pp 1672.80	-57.25	-65.16	-13.00	-44.25	7.91	Peak

WCDMA:

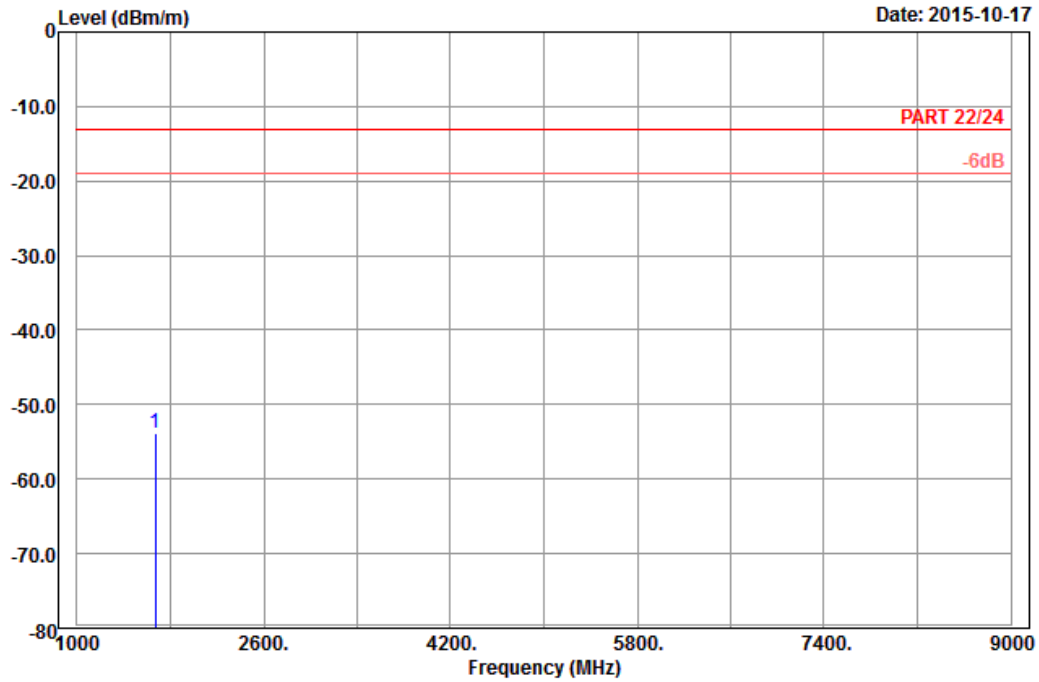


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2015-10-17



Site : 966 chamber 1
 Condition: PART 22/24 3m Horizontal
 Remark : Band V_Link_CH4182
 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	pp 1672.80	-53.92	-61.83	-13.00	-40.92	7.91	Peak

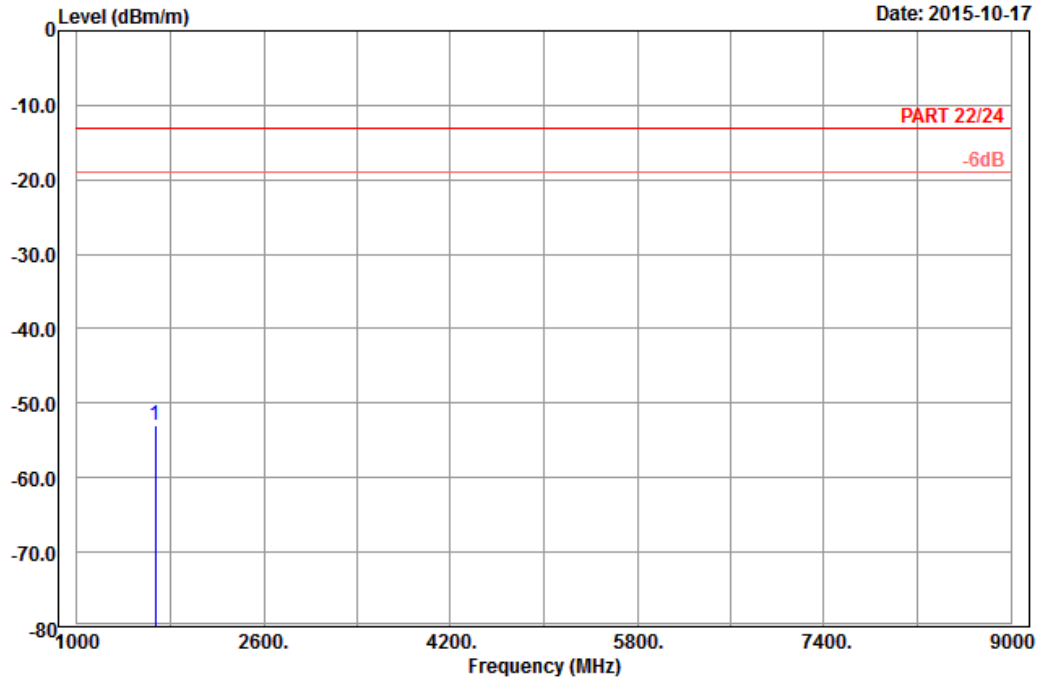


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2015-10-17



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : Band V_Link_CH4182
 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	pp 1672.80	-53.03	-60.94	-13.00	-40.03	7.91	Peak

LTE Band 5
 Channel Bandwidth: 10MHz / QPSK

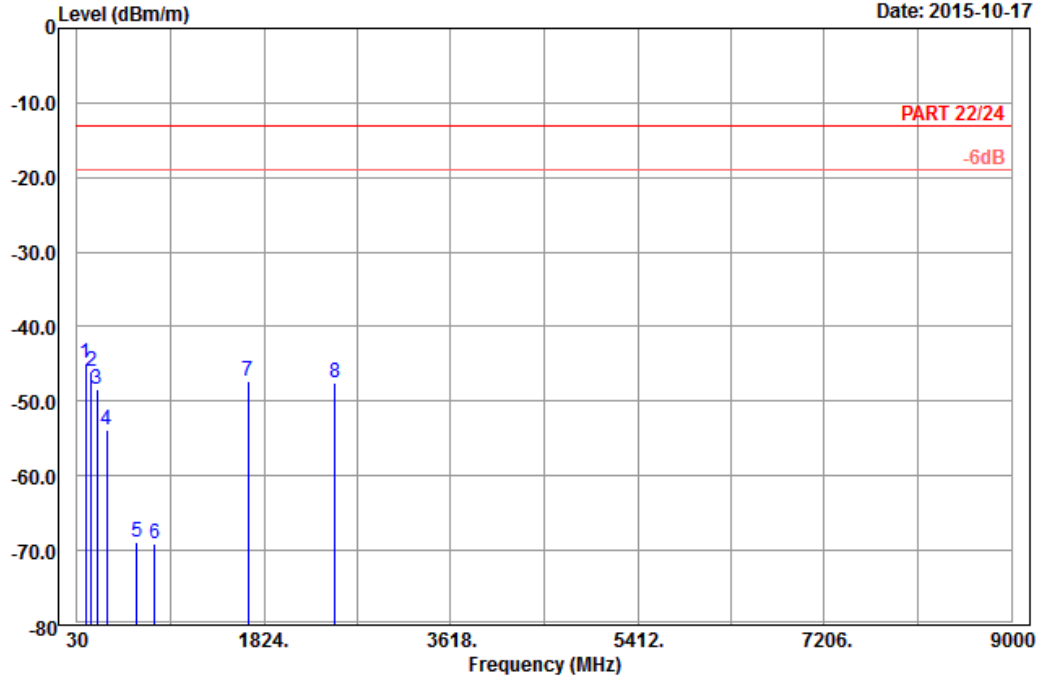


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9

Date: 2015-10-17



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

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 pp	114.78	-45.01	-36.38	-13.00	-32.01	-8.63	Peak
2	164.73	-46.06	-38.87	-13.00	-33.06	-7.19	Peak
3	218.19	-48.39	-42.45	-13.00	-35.39	-5.94	Peak
4	314.70	-53.75	-47.97	-13.00	-40.75	-5.78	Peak
5	601.00	-68.78	-69.20	-13.00	-55.78	0.42	Peak
6	775.30	-69.20	-69.55	-13.00	-56.20	0.35	Peak
7	1673.00	-47.40	-55.31	-13.00	-34.40	7.91	Peak
8	2509.50	-47.58	-58.86	-13.00	-34.58	11.28	Peak



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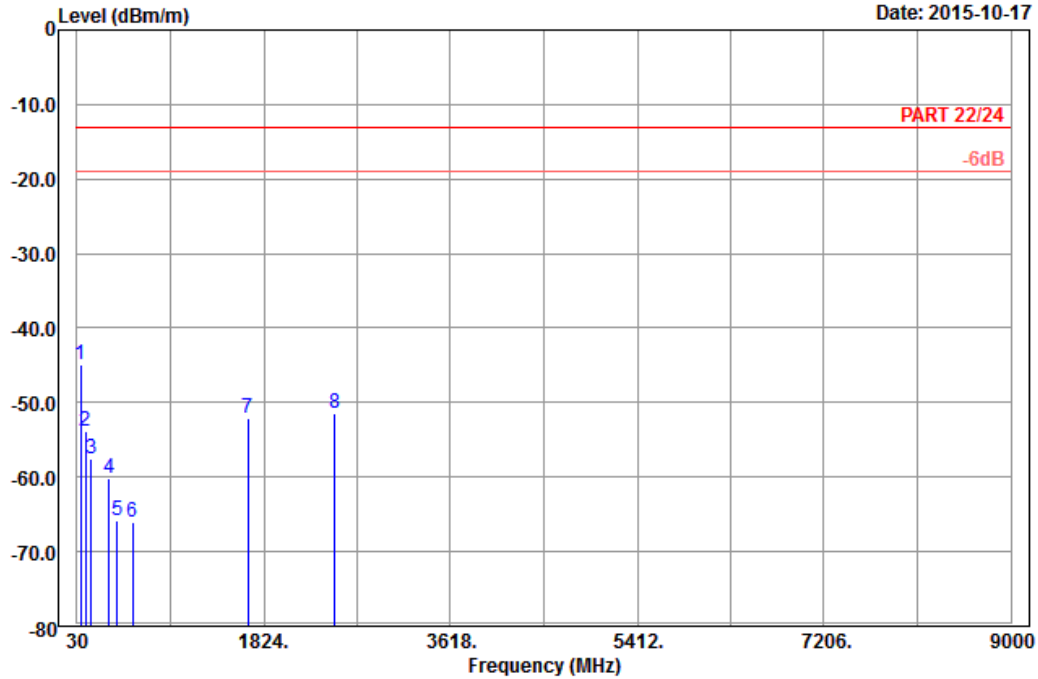


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2015-10-17



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp	64.83	-44.92	-31.54	-13.00	-31.92	-13.38 Peak
2		115.32	-53.80	-45.23	-13.00	-40.80	-8.57 Peak
3		166.35	-57.50	-50.51	-13.00	-44.50	-6.99 Peak
4		335.70	-60.12	-54.57	-13.00	-47.12	-5.55 Peak
5		412.70	-65.84	-62.80	-13.00	-52.84	-3.04 Peak
6		561.80	-65.98	-64.80	-13.00	-52.98	-1.18 Peak
7		1673.00	-52.01	-59.92	-13.00	-39.01	7.91 Peak
8		2509.50	-51.38	-62.66	-13.00	-38.38	11.28 Peak



5 Pictures of Test Arrangements

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



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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:

Linko EMC/RF Lab

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Fax: 886-2-26051924

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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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