

FCC PART 22H, PART 24E  
MEASUREMENT AND TEST REPORT

For

**MAXWEST INTERNATIONAL LIMITED**

No.1, Longgang Road,Buji,Longgang,ShenzhenCity,Guangdong Province, P.R. China

**FCC ID: 2AEN3GRAVITY5**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Mobile Phone
<b>Test Engineer:</b> Dean Liu	<i>Dean Liu</i>
<b>Report Number:</b> RDG150807007-00C	
<b>Report Date:</b> 2015-08-17	
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## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The *MAXWEST INTERNATIONAL LIMITED*'s product, model number: *Gravity 5 (FCC ID: 2AEN3GRAVITY5)* (the "EUT") in this report was a *Mobile Phone (named Gravity 5 by applicant)*, which was measured approximately: 14.6cm (L) x 7.35 cm (W) x 0.85 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5.0V charging from adapter.

Adapter information:

CHARGING ADAPTOR

Input: AC100-240V, 50/60 Hz, 0.2A;

Output: DC 5V, 1000mAh

*All measurement and test data in this report was gathered from production sample serial number: 150807007 (Assigned by applicant). The EUT was received on 2015-08-10.*

### Objective

This report is prepared on behalf of *MAXWEST INTERNATIONAL LIMITED* in accordance with Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E of the Federal Communications Commission's rules.

The objective is to determine compliance with FCC rules for output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, spurious radiated emission, frequency stability and band edge.

### Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2AEN3GRAVITY5.

FCC Part 15C DSS submissions with FCC ID: 2AEN3GRAVITY5.

FCC Part 15C DTS submissions with FCC ID: 2AEN3GRAVITY5.

### Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA 603-D-2010.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp.(Dongguan).

## **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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## SYSTEM TEST CONFIGURATION

### Justification

The EUT was configured for testing according to TIA/EIA-603-D-2010.

The test items were performed with the EUT operating at testing mode.

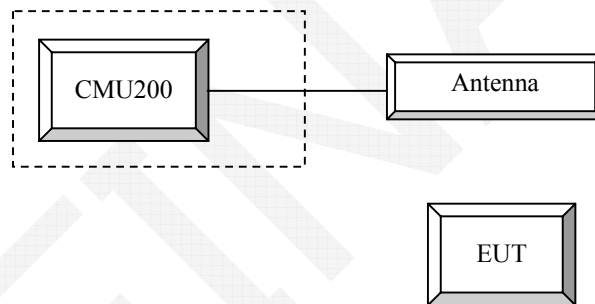
### Equipment Modifications

No modification was made to the EUT.

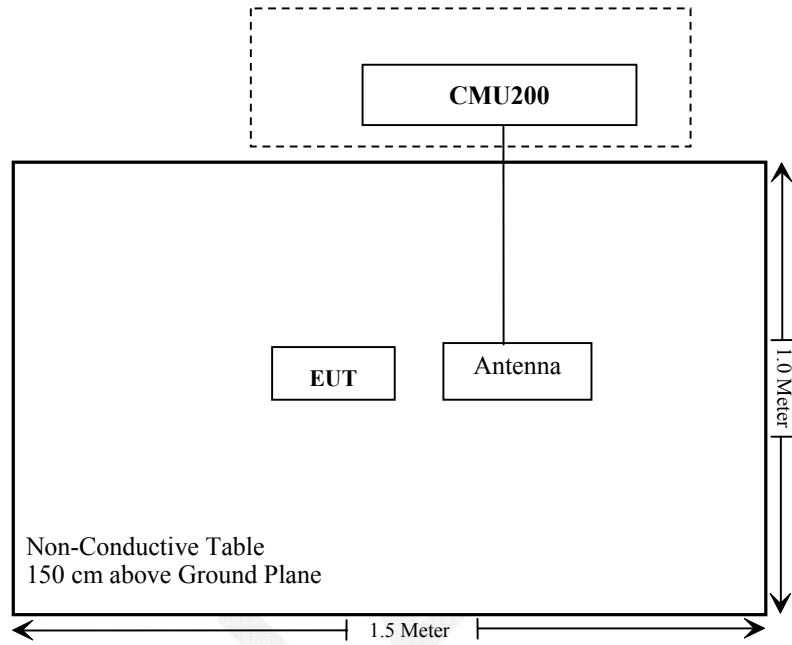
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Universal Radio Communication Tester	CMU200	109038
N/A	ANTENNA	N/A	N/A

### Configuration of Test Setup



### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§1.1310, §2.1093	RF Exposure	Compliance
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238	Occupied Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance



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## **FCC §1.1310 & §2.1093- RF EXPOSURE**

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### **Applicable Standard**

FCC§1.1310 and §2.1093.

### **Test Result**

Compliant, please refer to the SAR report: RDG150807007-20.

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## **FCC §2.1047 - MODULATION CHARACTERISTIC**

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According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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## **FCC § 2.1046, § 22.913 (a) & § 24.232 (c) - RF OUTPUT POWER**

### **Applicable Standard**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

### **Test Procedure**

#### **GSM/GPRS/EGPRS**

Function: Menu select > GSM Mobile Station > GSM 850/1900  
 Press Connection control to choose the different menus  
 Press RESET > choose all the reset all settings  
 Connection Press Signal Off to turn off the signal and change settings  
 Network Support > GSM + GPRS or GSM + EGSM  
 Main Service > Packet Data  
 Service selection > Test Mode A – Auto Slot Config. off  
 MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting  
     > Slot configuration > Uplink/Gamma  
     > 33 dBm for GPRS 850  
     > 30 dBm for GPRS 1900  
     > 27 dBm for EGPRS 850  
     > 26 dBm for EGPRS 1900  
 BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel  
 Frequency Offset > + 0 Hz  
 Mode > BCCH and TCH  
 BCCH Level > -85 dBm (May need to adjust if link is not stable)  
 BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]  
 Channel Type > Off  
 P0 > 4 dB  
 Slot Config > Unchanged (if already set under MS signal)  
 TCH > choose desired test channel  
 Hopping > Off  
 Main Timeslot > 3  
 Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)  
 Bit Stream > 2E9-1 PSR Bit Stream  
 AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input  
 Connection Press Signal on to turn on the signal and change settings

**WCDMA-Release 99**

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

<b>WCDMA General Settings</b>	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	$\beta_c / \beta_d$	8/15

**WCDMA HSDPA**

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
<b>WCDMA General Settings</b>	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	$\beta_c$	2/15	12/15	15/15	15/15
	$\beta_d$	15/15	15/15	8/15	4/15
	$\beta_d$ (SF)	64			
	$\beta_c / \beta_d$	2/15	12/15	15/8	15/4
	$\beta_{hs}$	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
<b>HSDPA Specific Settings</b>	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	A <sub>hs</sub> = $\beta_{hs} / \beta_c$	30/15			

**WCDMA HSUPA**

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	<b>Mode</b>	<b>HSUPA</b>	<b>HSUPA</b>	<b>HSUPA</b>	<b>HSUPA</b>	<b>HSUPA</b>
	<b>Subset</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>WCDMA A General Settings</b>	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	$\beta_c$	11/15	6/15	15/15	2/15	15/15
	$\beta_d$	15/15	15/15	9/15	15/15	0
	$\beta_{ec}$	209/225	12/15	30/15	2/15	5/15
	$\beta_c / \beta_d$	11/15	6/15	15/9	2/15	-
	$\beta_{hs}$	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
MPR(dB)	0	2	1	2	0	
<b>HSDPA Specific Settings</b>	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	Ahs= $\beta_{hs} / \beta_c$	30/15				
<b>HSUPA Specific Settings</b>	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCI	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		

**HSPA+**

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

Sub-test	$\beta_c$ (Note3)	$\beta_d$	$\beta_{HS}$ (Note1)	$\beta_{ec}$	$\beta_{ed}$ (2xSF2) (Note 4)	$\beta_{ed}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed1}$ : 30/15 $\beta_{ed2}$ : 30/15	$\beta_{ed3}$ : 24/15 $\beta_{ed4}$ : 24/15	3.5	2.5	14	105	105

- Note 1:  $\Delta_{ACK}, \Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ .
- Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
- Note 3: DPDCH is not configured, therefore the  $\beta_c$  is set to 1 and  $\beta_d = 0$  by default.
- Note 4:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.
- Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

**DC-HSDPA**

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

**Table C.8.1.12: Fixed Reference Channel H-Set 12**

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload ( $N_{INF}$ )	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
<p>Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.</p> <p>Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.</p>		

*Radiated method:*

ANSI/TIA 603-D section 2.2.17

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Giga	Signal Generator	1026	320408	2015-05-09	2016-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data****Environmental Conditions**

<b>Temperature:</b>	27.3 °C
<b>Relative Humidity:</b>	59 %
<b>ATM Pressure:</b>	100.2 kPa

*The testing was performed by Dean Liu on 2015-08-13.*

**Conducted Power****Cellular Band (Part 22H) & PCS Band (Part 24E)**

Band	Channel No.	Peak Output Power (dBm)								
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Cellular	128	33.26	32.85	31.09	29.98	28.95	26.36	24.79	22.66	21.36
	190	33.12	32.71	31.10	29.87	29.03	26.24	24.74	22.77	21.23
	251	33.31	32.81	31.13	29.93	29.41	26.27	24.98	22.73	21.24
PCS	512	28.10	27.99	27.03	25.80	23.88	24.99	23.64	22.35	20.68
	661	28.41	28.31	27.27	26.24	24.05	25.08	23.69	22.22	20.62
	810	28.46	28.27	27.25	25.93	24.26	24.99	23.65	22.26	20.79

**WCDMA Band II**

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	22.50	2.72	22.82	2.88	23.00	2.48
HSDPA	1	21.76	2.54	22.04	2.35	22.15	2.32
	2	21.68	2.74	22.15	2.36	22.17	2.14
	3	21.71	2.76	22.12	2.52	22.18	2.07
	4	21.70	2.71	22.16	2.64	22.24	2.32
DC-HSDPA	1	21.17	2.72	21.58	2.42	21.63	2.11
	2	21.19	2.63	21.44	2.69	21.69	2.26
	3	21.14	2.71	21.60	2.44	21.61	2.36
	4	21.22	2.88	21.59	2.31	21.68	2.09
HSUPA	1	21.73	2.67	22.07	2.78	22.19	2.12
	2	21.78	3.02	22.03	2.7	22.27	2.20
	3	21.80	2.68	21.99	2.71	22.21	2.21
	4	21.71	2.84	22.06	2.49	22.26	2.23
	5	21.70	2.61	22.10	2.58	22.27	2.06
HSPA+	1	21.12	2.68	21.54	2.63	21.70	2.12



**WCDMA Band V**

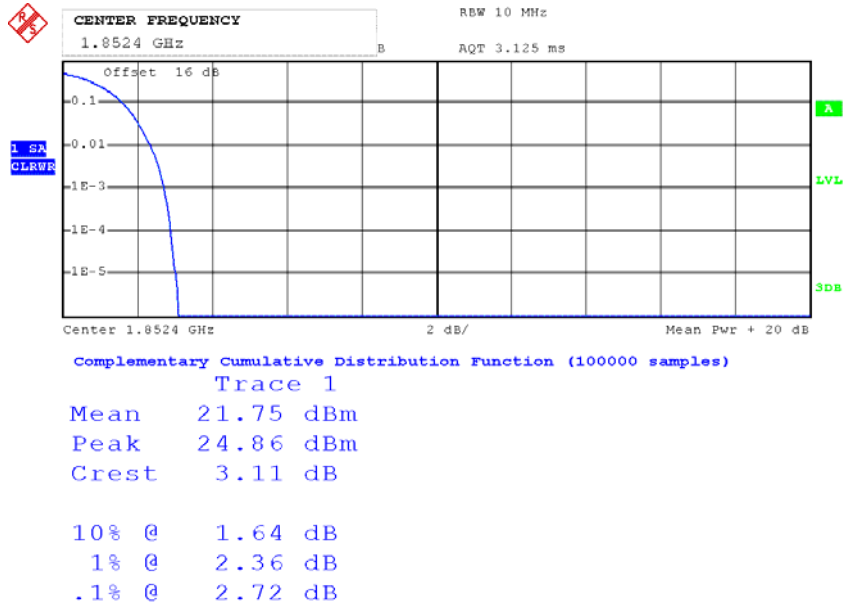
Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	22.46	3.20	21.77	2.28	22.36	2.64
HSDPA	1	21.54	3.3	20.78	2.83	21.41	2.57
	2	21.75	3.10	20.92	3.10	21.52	2.44
	3	21.35	3.16	20.67	3.04	21.56	2.48
	4	21.65	3.04	20.60	2.75	21.51	2.37
DC-HSDPA	1	20.98	2.93	20.33	2.83	20.87	2.39
	2	20.94	2.87	20.41	3.10	20.96	2.03
	3	20.89	3.31	20.38	2.91	21.01	2.04
	4	20.95	3.08	20.41	2.87	20.95	2.52
HSUPA	1	21.42	3	20.80	3.16	21.34	2.23
	2	21.64	3.37	20.62	2.79	21.45	2.51
	3	21.40	3.07	20.67	3.05	21.55	2.16
	4	21.48	3.03	20.67	3.11	21.35	2.46
	5	21.45	3.13	20.92	2.87	21.50	2.49
HSPA+	1	20.93	3.24	20.37	3.08	21.01	2.32

Note: Peak-to-average ratio (PAR) < 13 dB.

Peak-to-average ratio (PAR)

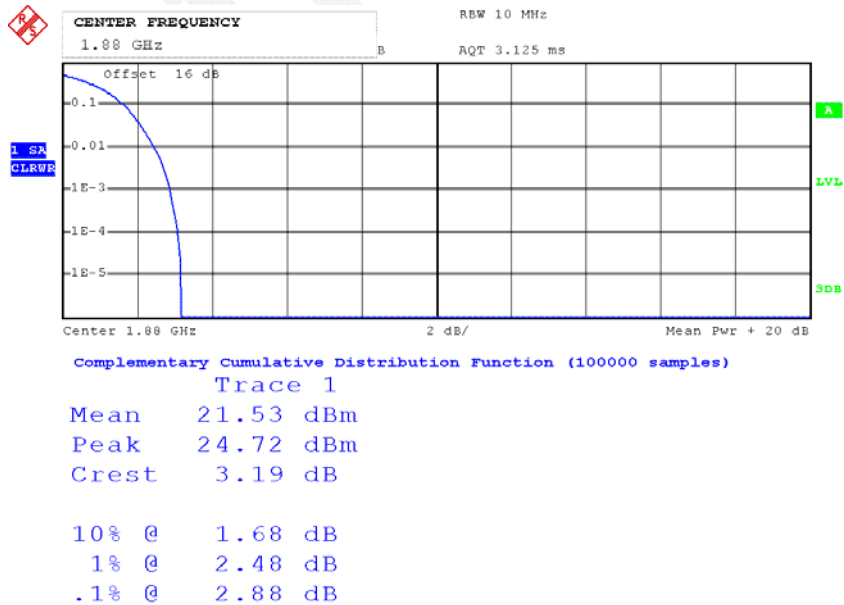
**WCDMA Band II**

**Low Channel**



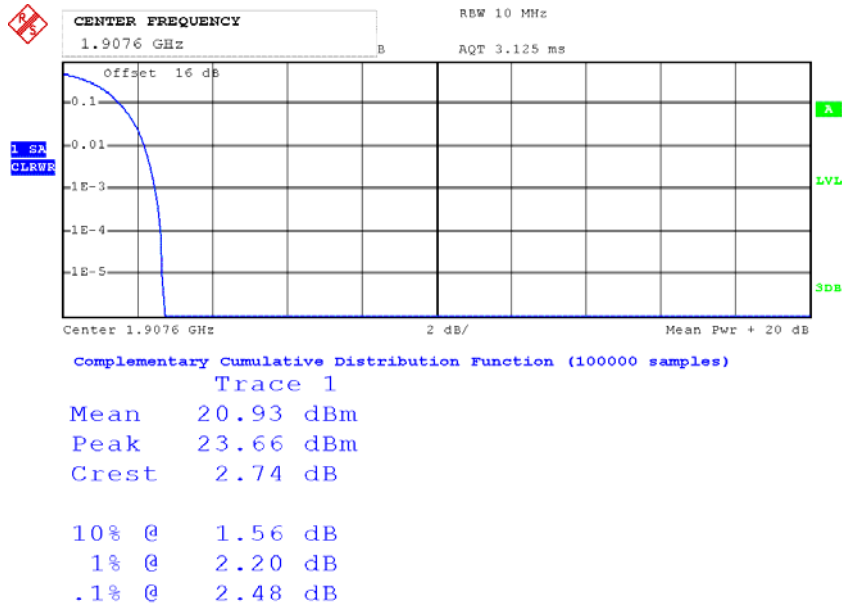
Date: 13.AUG.2015 15:33:06

**Middle Channel**



Date: 13.AUG.2015 15:33:44

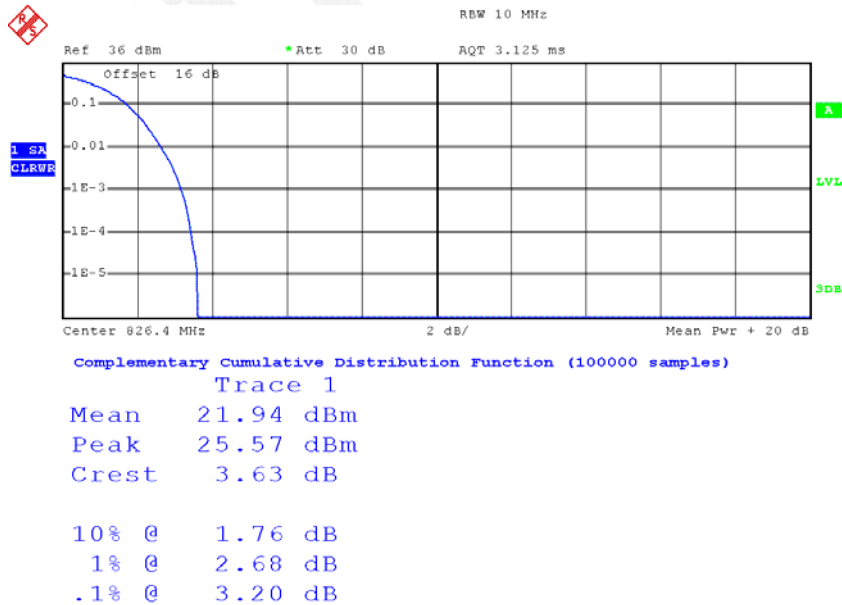
### High Channel



Date: 13.AUG.2015 15:34:39

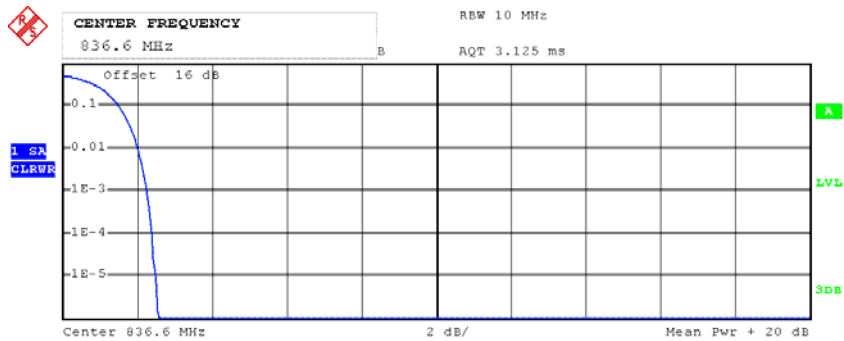
### WCDMA Band V

### Low Channel



Date: 13.AUG.2015 15:30:05

**Middle Channel**



Complementary Cumulative Distribution Function (100000 samples)

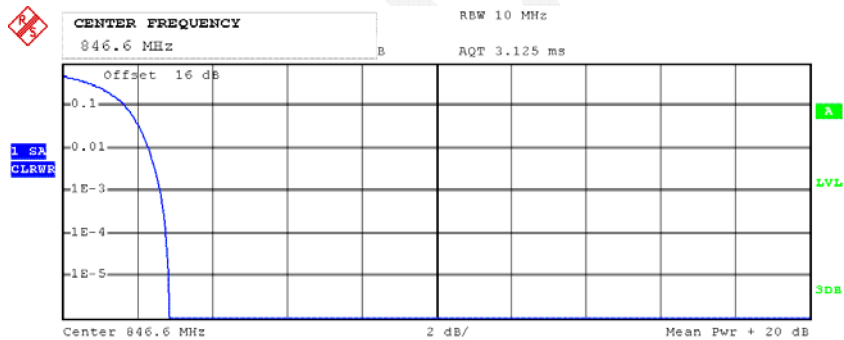
Trace 1

Mean 22.93 dBm  
 Peak 25.50 dBm  
 Crest 2.57 dB

10% @ 1.52 dB  
 1% @ 2.04 dB  
 .1% @ 2.28 dB

Date: 13.AUG.2015 15:30:53

**High Channel**



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.14 dBm  
 Peak 24.02 dBm  
 Crest 2.87 dB

10% @ 1.72 dB  
 1% @ 2.32 dB  
 .1% @ 2.64 dB

Date: 13.AUG.2015 15:31:23

ERP & EIRP

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
<b>GSM 850_Middle Channel</b>								
836.600	H	108.40	33.5	0.0	1.0	32.5	38.50	6.0
836.600	V	100.06	28.3	0.0	1.0	27.3	38.50	11.2
<b>EGPRS 850_Middle Channel</b>								
836.600	H	101.36	26.4	0.0	1.0	25.4	38.50	13.1
836.600	V	94.28	22.5	0.0	1.0	21.5	38.50	17.0
<b>WCDMA Band V_Middle Channel</b>								
836.600	H	97.64	22.7	0.0	1.0	21.7	38.50	16.8
836.600	V	93.58	21.8	0.0	1.0	20.8	38.50	17.7
<b>PCS 1900_Middle Channel</b>								
1880.000	H	89.60	18.0	11.7	1.4	28.3	33.0	4.7
1880.000	V	88.22	16.8	11.7	1.4	27.1	33.0	5.9
<b>EGPRS 1900_Middle Channel</b>								
1880.000	H	86.11	14.5	11.7	1.4	24.8	33.0	8.2
1880.000	V	84.27	12.8	11.7	1.4	23.1	33.0	9.9
<b>WCDMA Band II_Middle Channel</b>								
1880.000	H	83.36	11.8	11.7	1.4	22.1	33.0	10.9
1880.000	V	82.15	10.7	11.7	1.4	21.0	33.0	12.0

**FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH**

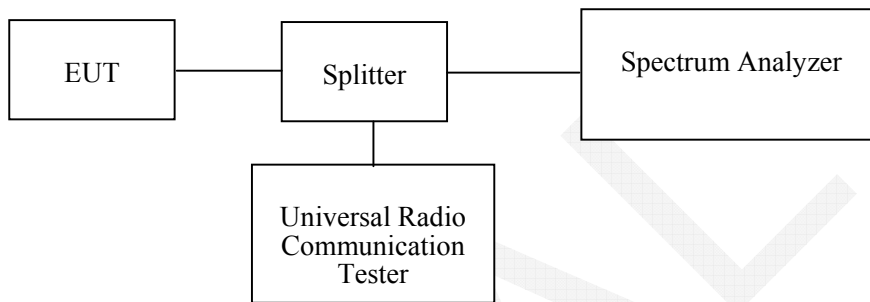
**Applicable Standard**

FCC §2.1049, §22.917, §22.905 and §24.238.

**Test Procedure**

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The 26 dB & 99% bandwidth was recorded.



**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	27.3 °C
<b>Relative Humidity:</b>	59 %
<b>ATM Pressure:</b>	100.2 kPa

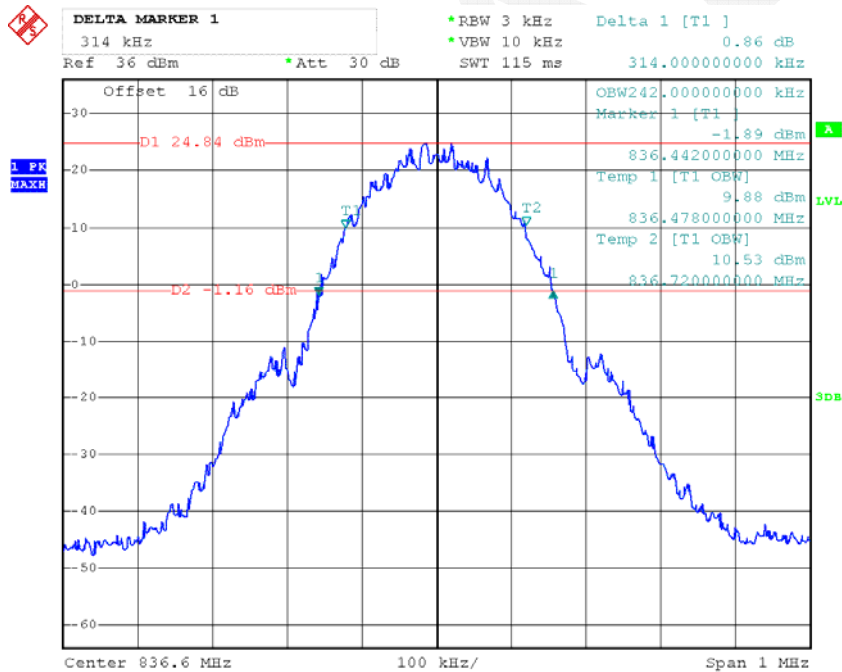
*The testing was performed by Dean Liu on 2015-08-13.*

*Test Mode: Transmitting*

*Test Result: Compliant. Please refer to the following table and plots.*

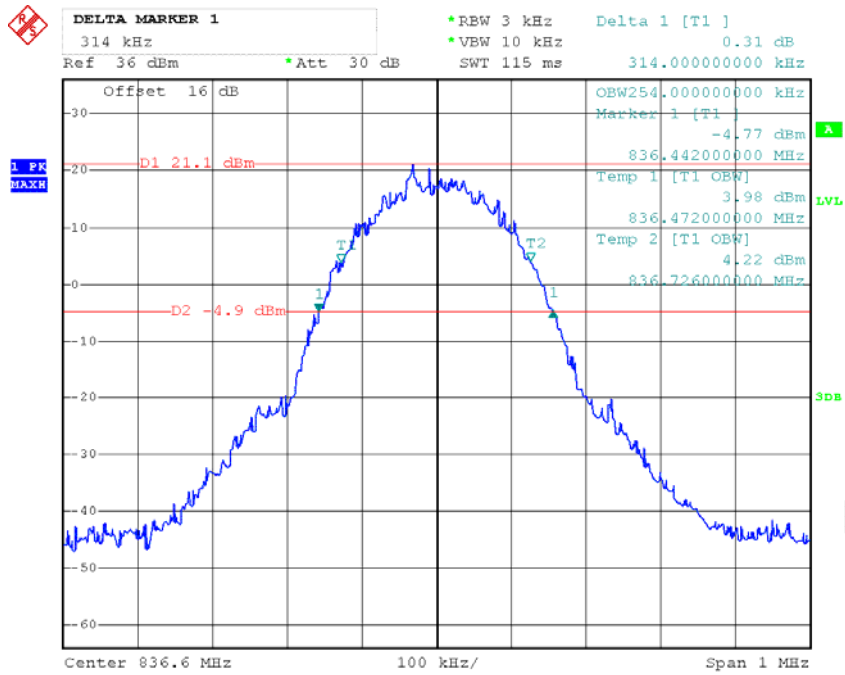
	Channel No.	Mode	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
Cellular	190	GSM	242	314
		EDGE	254	314
PCS	661	PCS	242	314
		EDGE	246	314
WCDMA Band II	9400	Rel 99	4160	4720
	9400	HSDPA	4220	4720
	9400	HSUPA	4160	4720
WCDMA Band V	4175	Rel 99	4160	4720
	4175	HSDPA	4140	4700
	4175	HSUPA	4160	4700

**GMSK 850 Cellular Band**



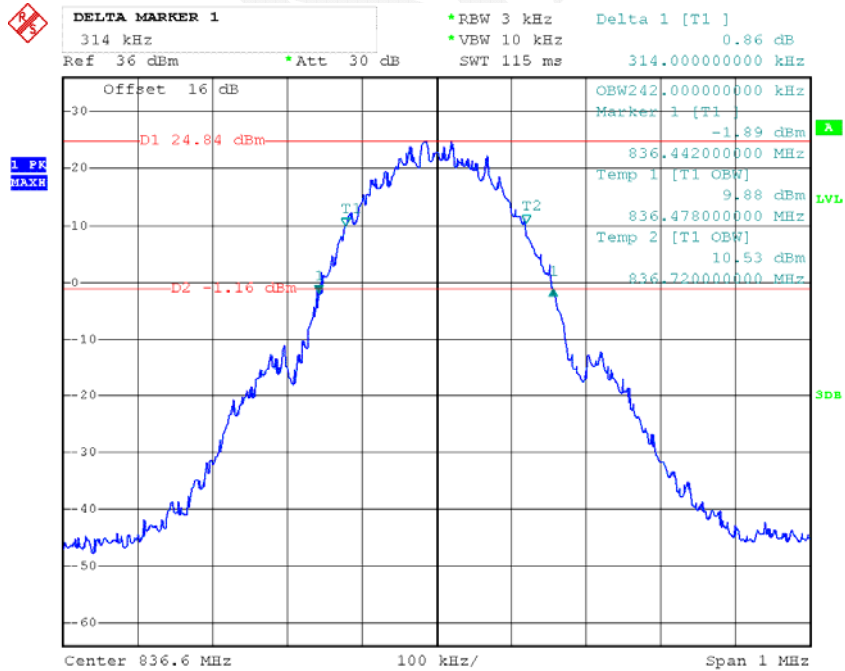
Date: 13.AUG.2015 14:50:57

**EDGE 850 Cellular Band**



Date: 13.AUG.2015 14:53:39

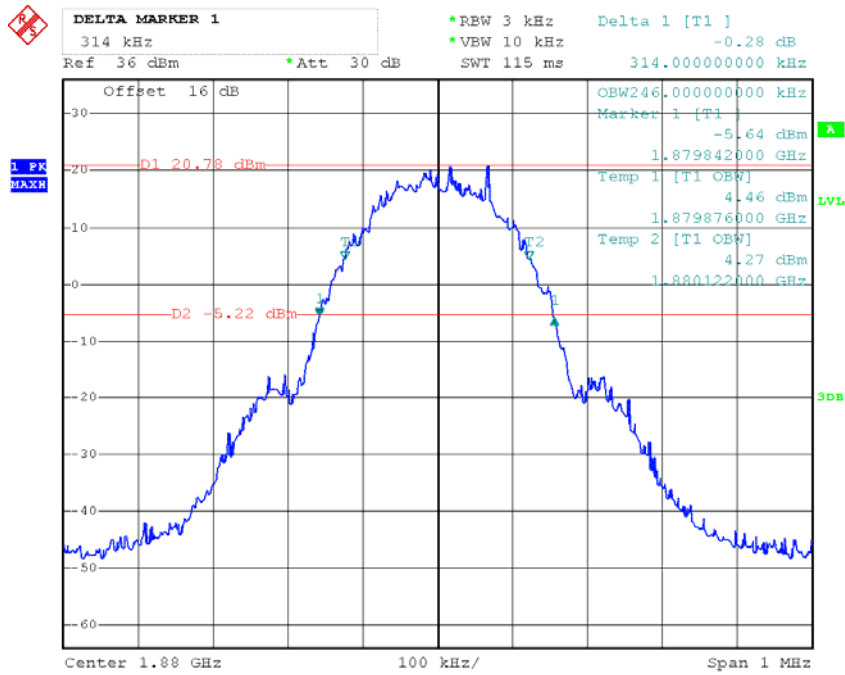
**GMSK PCS Band**



Date: 13.AUG.2015 14:50:57

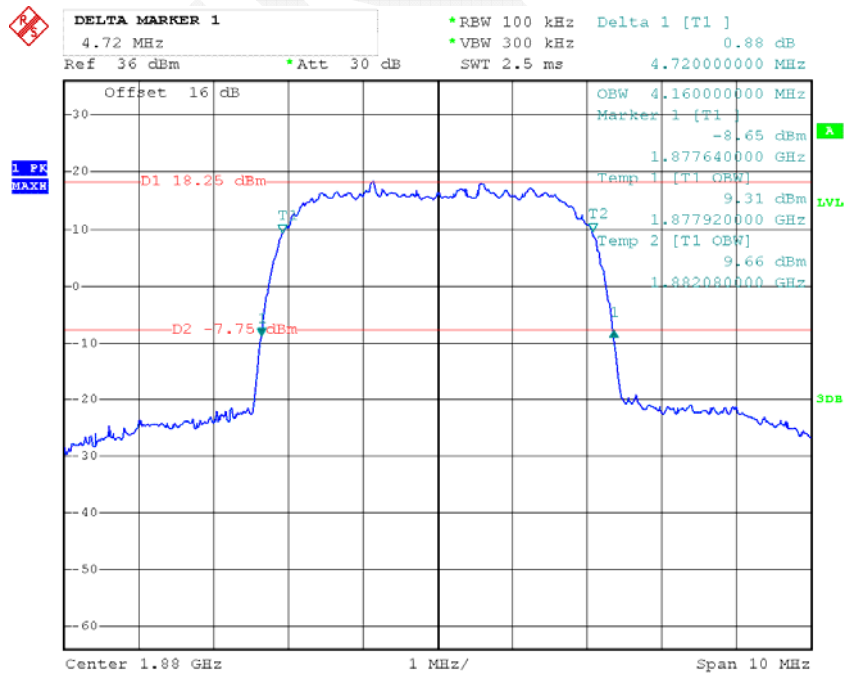


**EDGE PCS Band**



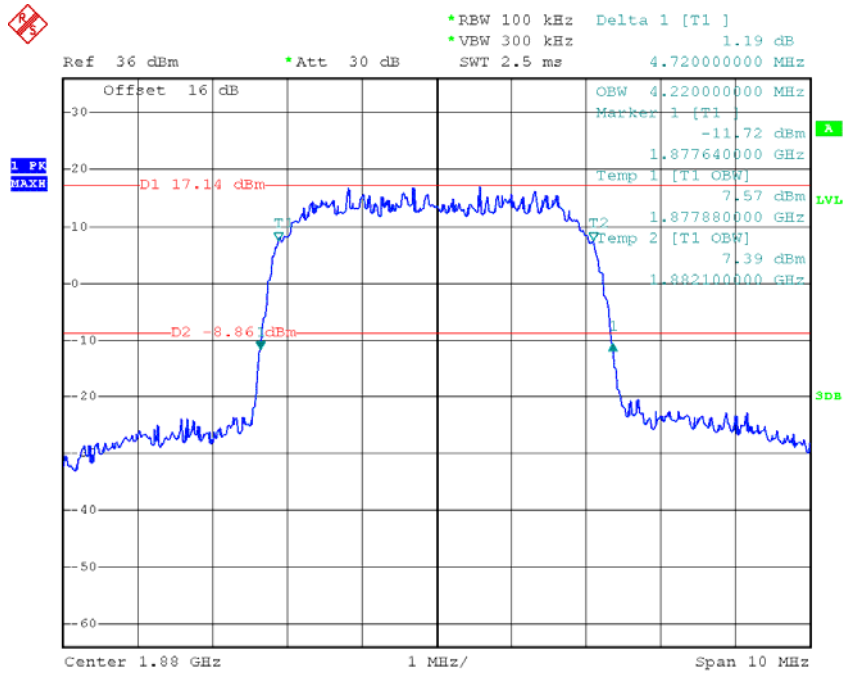
Date: 13.AUG.2015 15:02:42

**REL99 Band II**



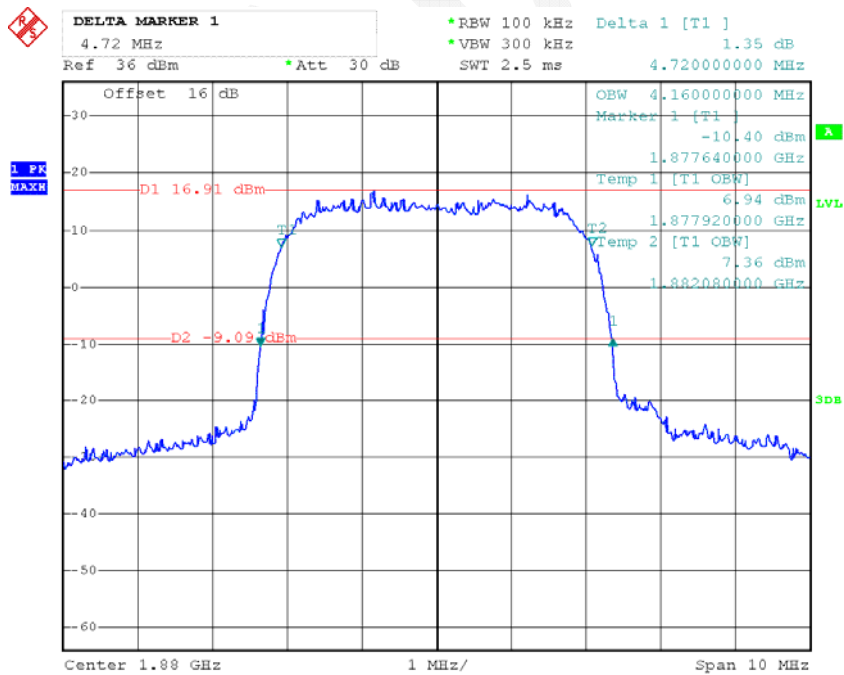
Date: 13.AUG.2015 14:14:14

### HSDPA Band II



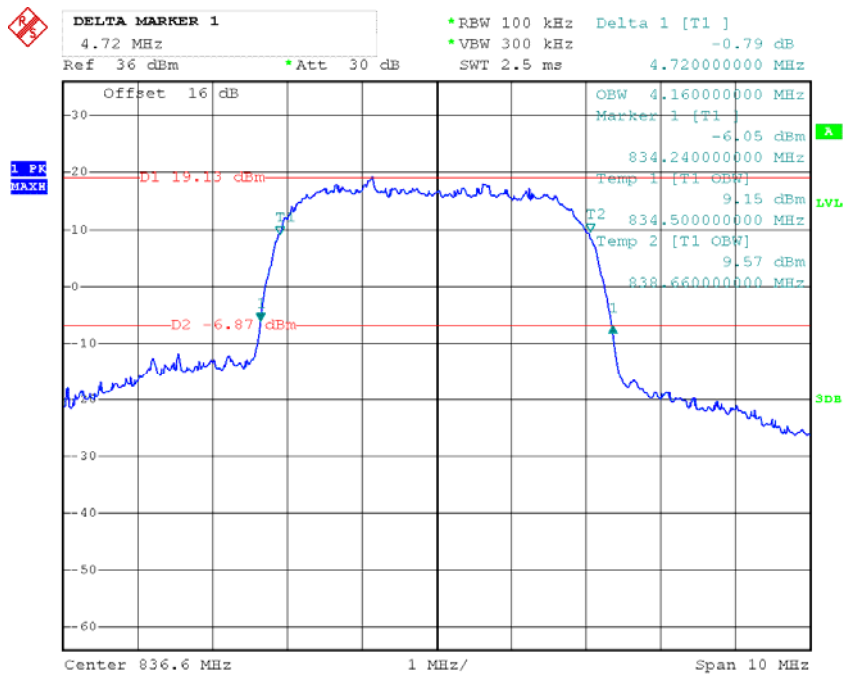
Date: 13.AUG.2015 14:34:08

### HSUPA Band II



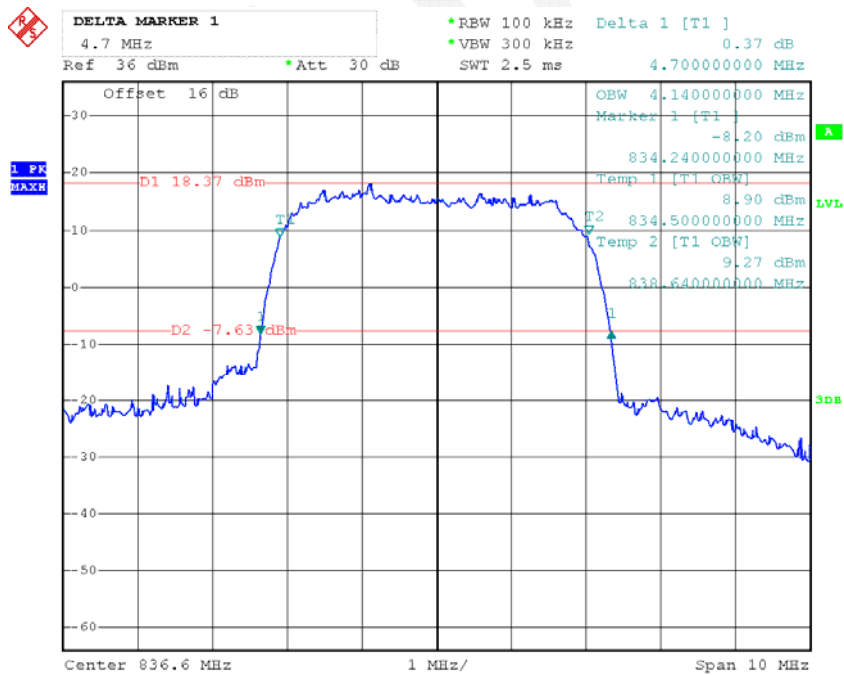
Date: 13.AUG.2015 14:27:03

### REL99 Band V



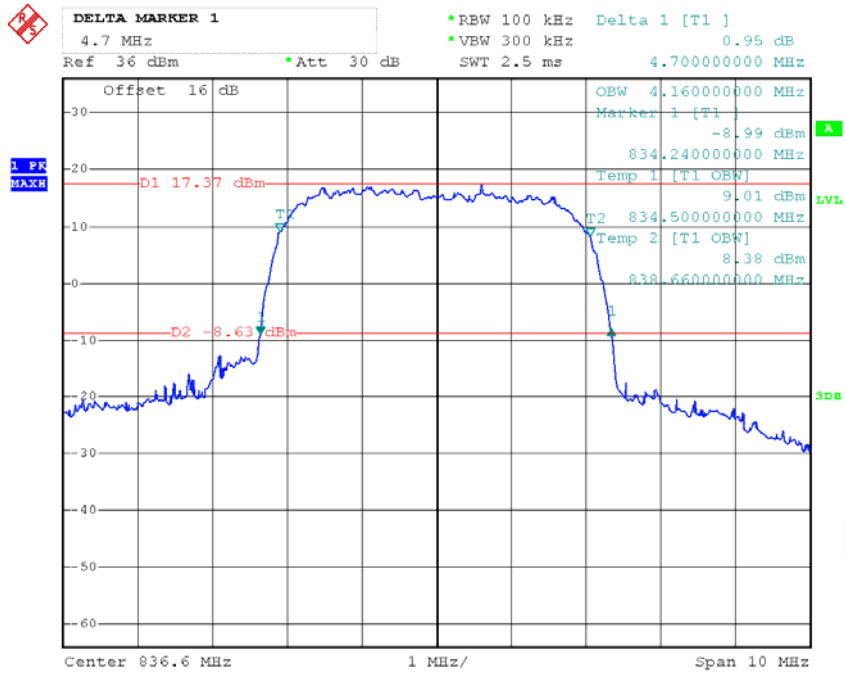
Date: 13.AUG.2015 15:11:44

### HSDPA Band V



Date: 13.AUG.2015 15:16:42

### HSUPA Band V



Date: 13.AUG.2015 15:20:25

## FCC §2.1051, §22.917(a) & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

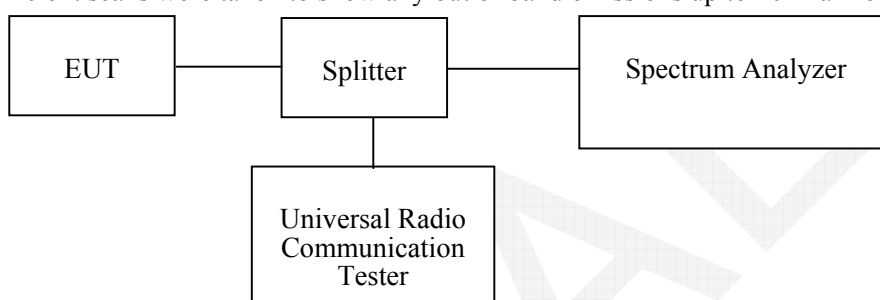
### Applicable Standard

FCC §2.1051, §22.917(a) and §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

### Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.



### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data

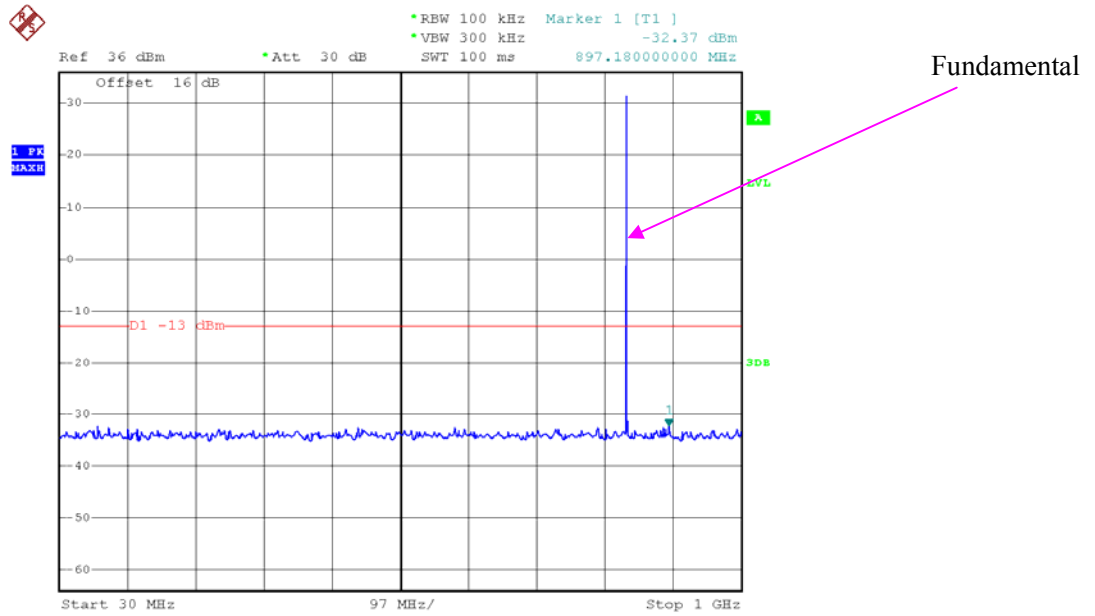
#### Environmental Conditions

Temperature:	27.3 °C
Relative Humidity:	59 %
ATM Pressure:	100.2 kPa

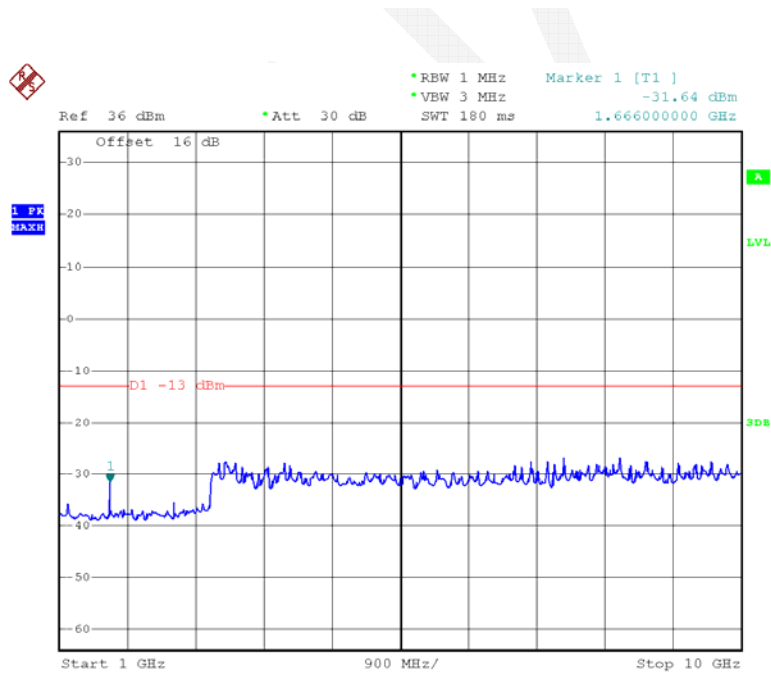
*The testing was performed by Dean Liu from 2015-08-13.*

Please refer to the following plots.

### GSM850\_Middle Channel

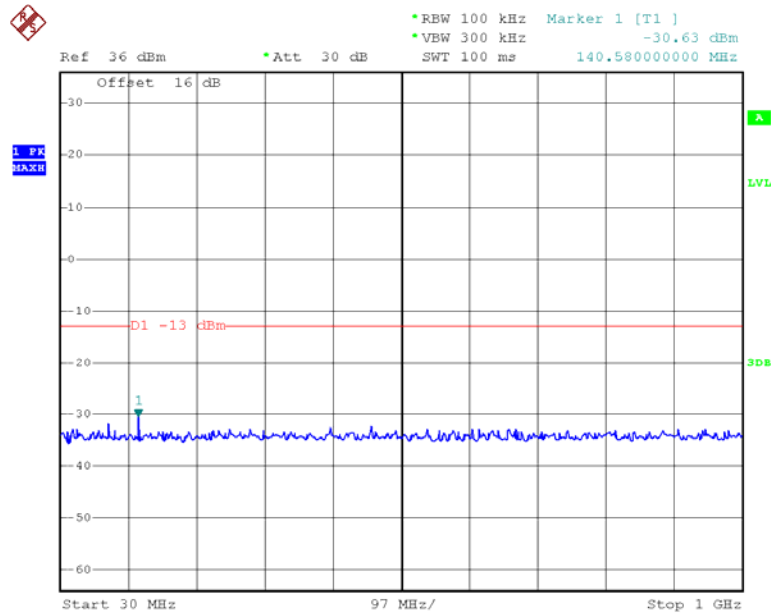


Date: 13.AUG.2015 19:18:02



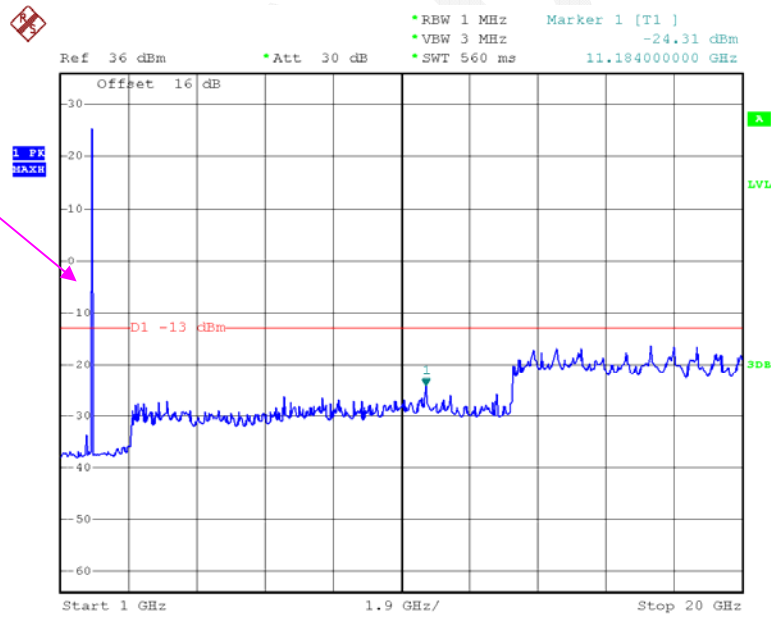
Date: 13.AUG.2015 19:19:49

### PCS 1900\_ Middle Channel



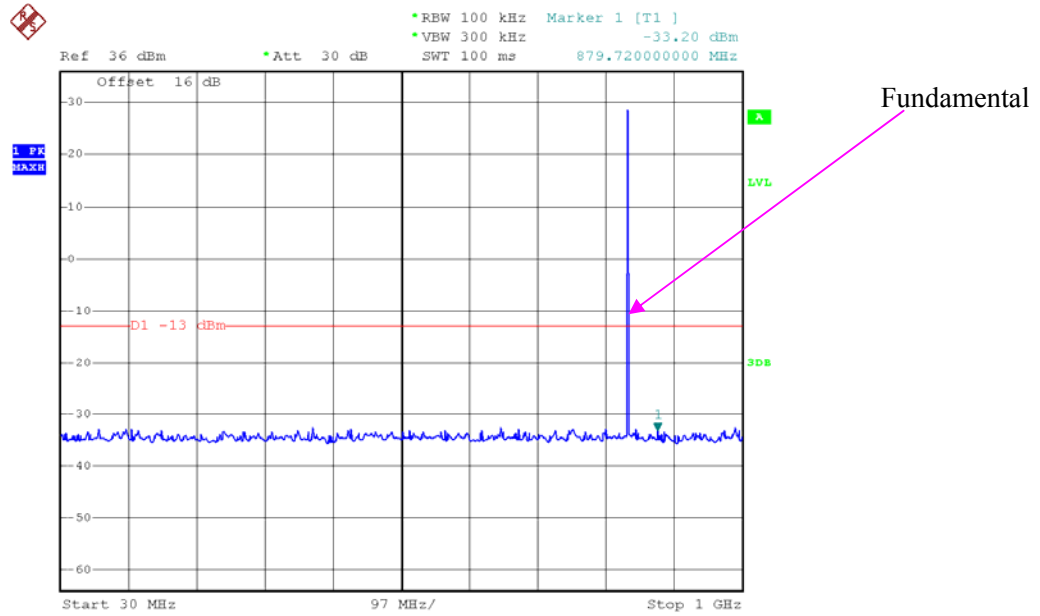
Date: 13.AUG.2015 19:26:23

Fundamental

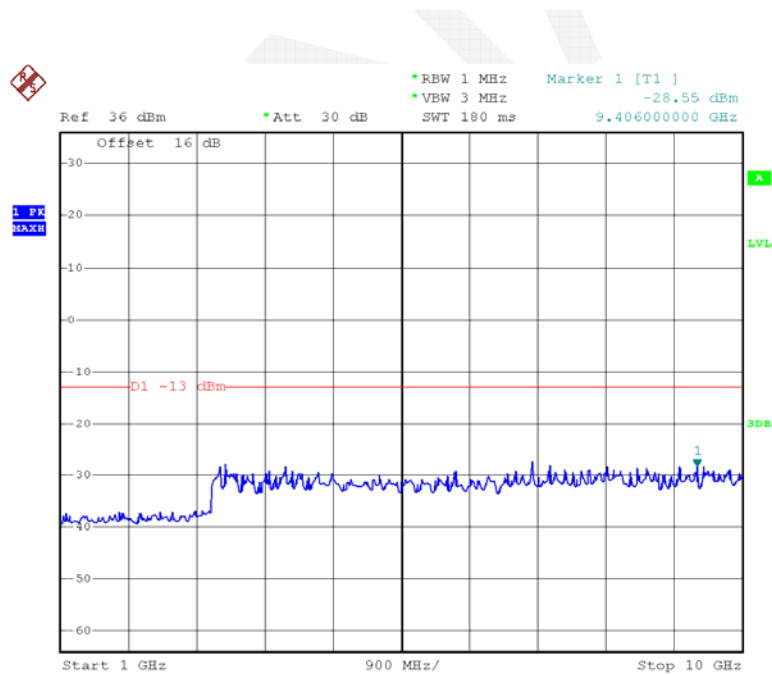


Date: 13.AUG.2015 19:25:01

### EDGE850\_Middle Channel



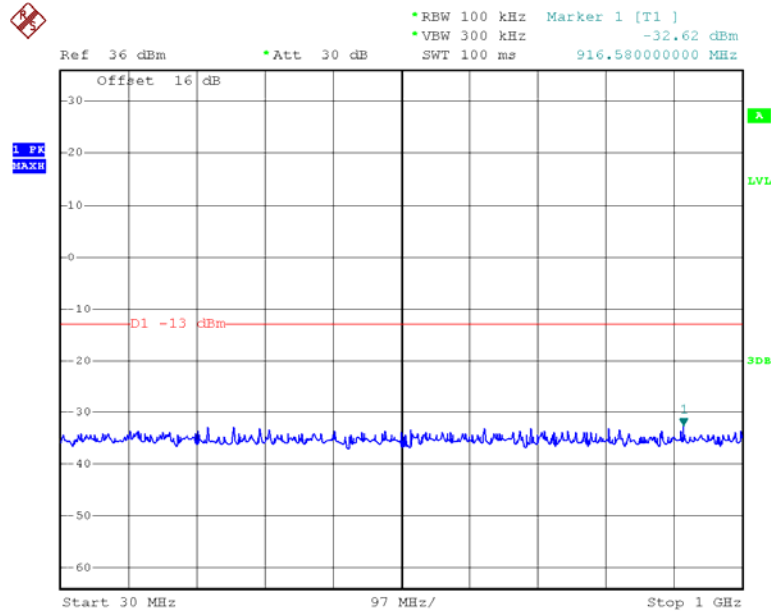
Date: 13.AUG.2015 18:55:25



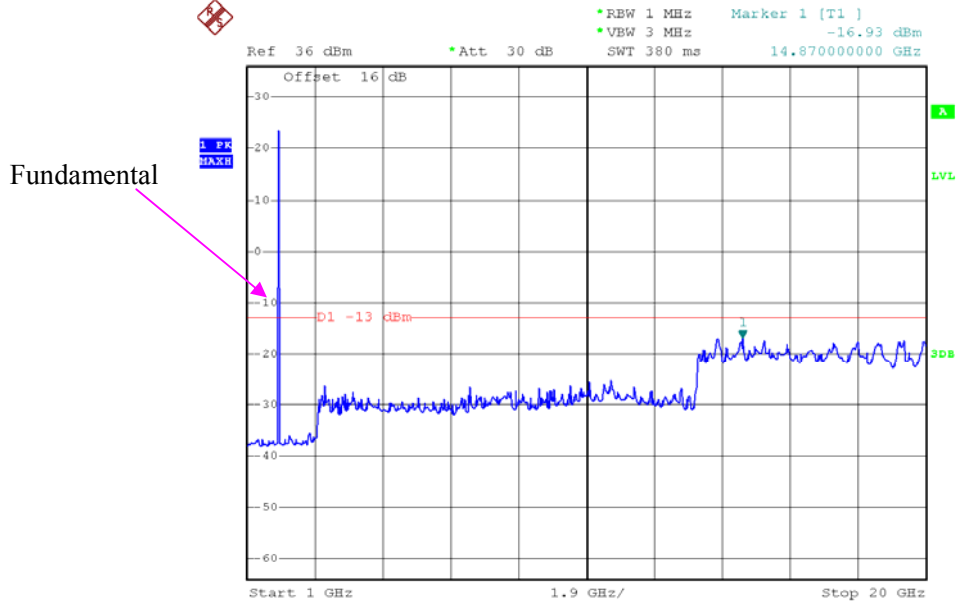
Date: 13.AUG.2015 18:54:25



### EDGE 1900\_ Middle Channel

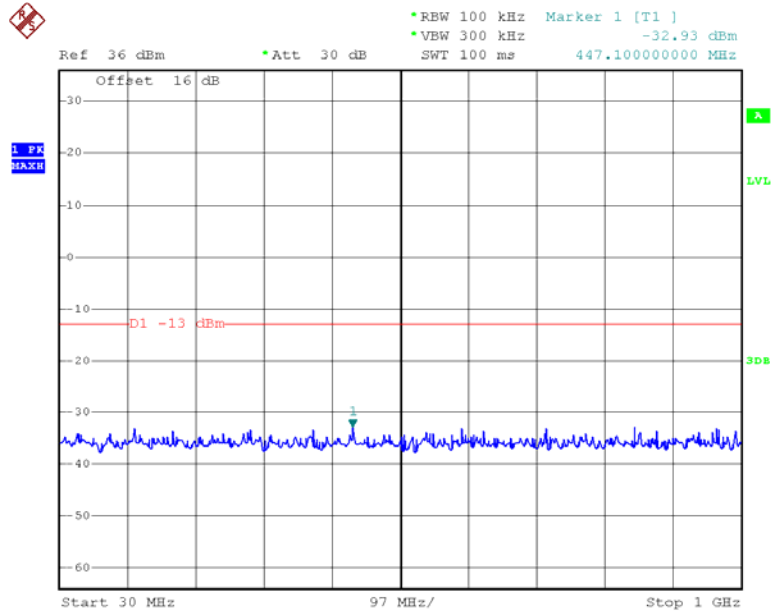


Date: 13.AUG.2015 19:26:33



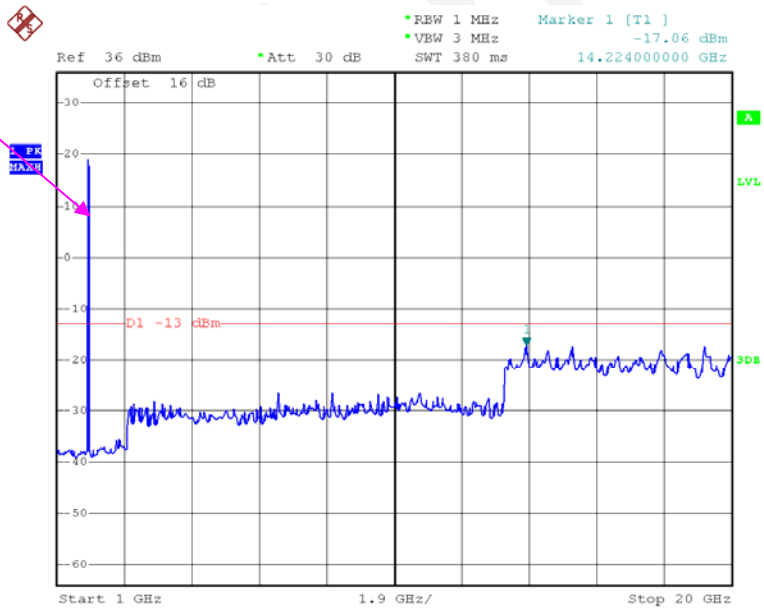
Date: 13.AUG.2015 19:34:22

### REL99 Band II\_ Middle Channel



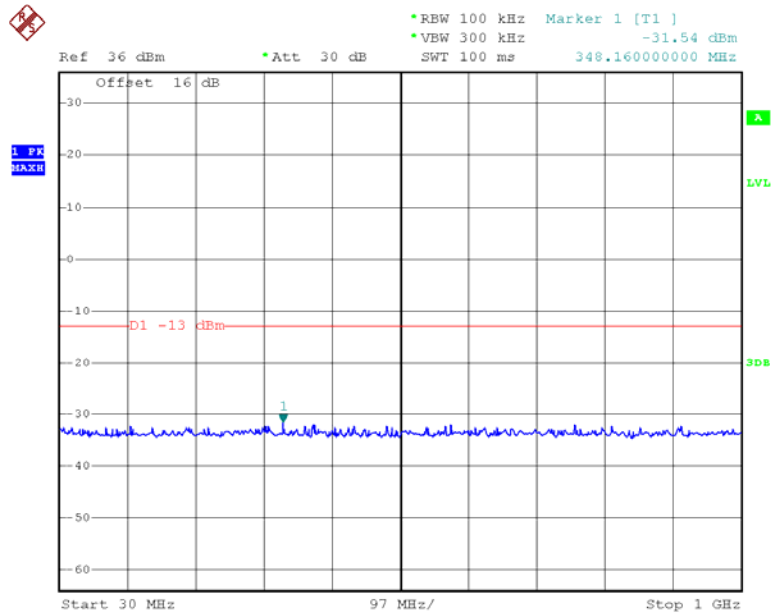
Date: 13.AUG.2015 18:37:47

Fundamental



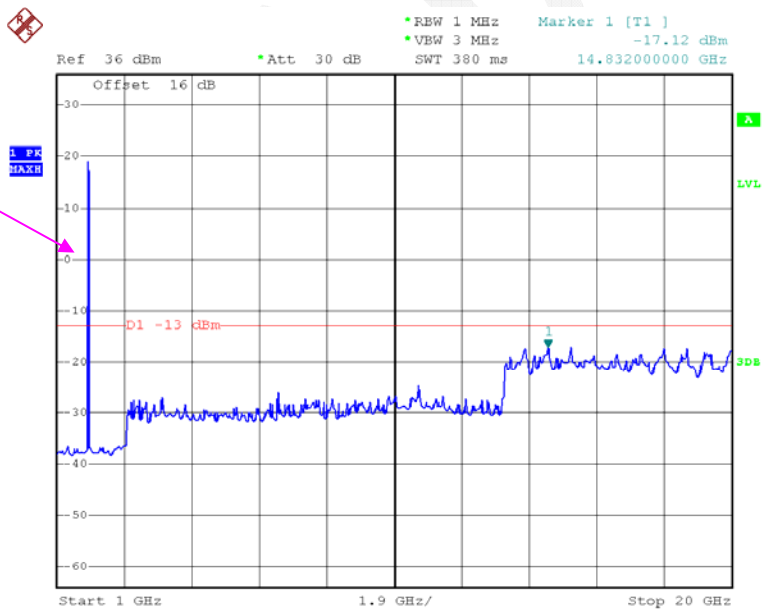
Date: 13.AUG.2015 18:40:37

### HSDPA Band II \_Middle Channel



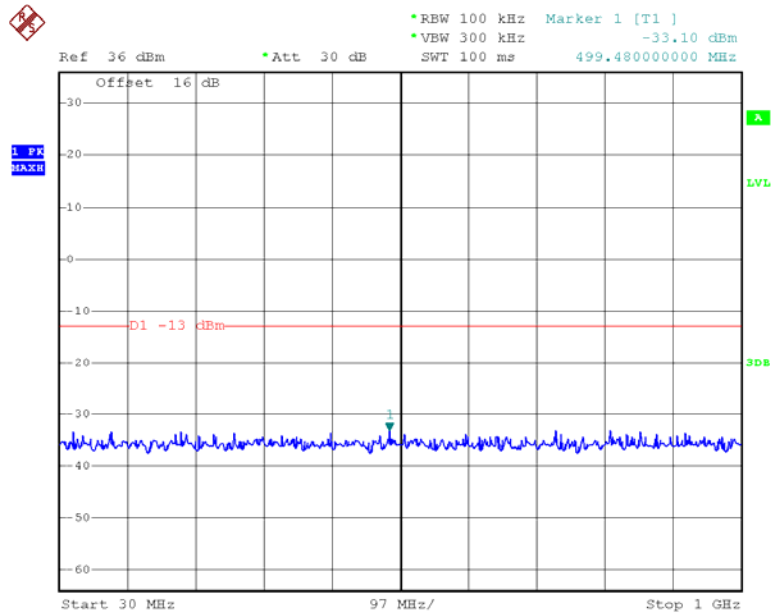
Date: 13.AUG.2015 18:37:34

Fundamental



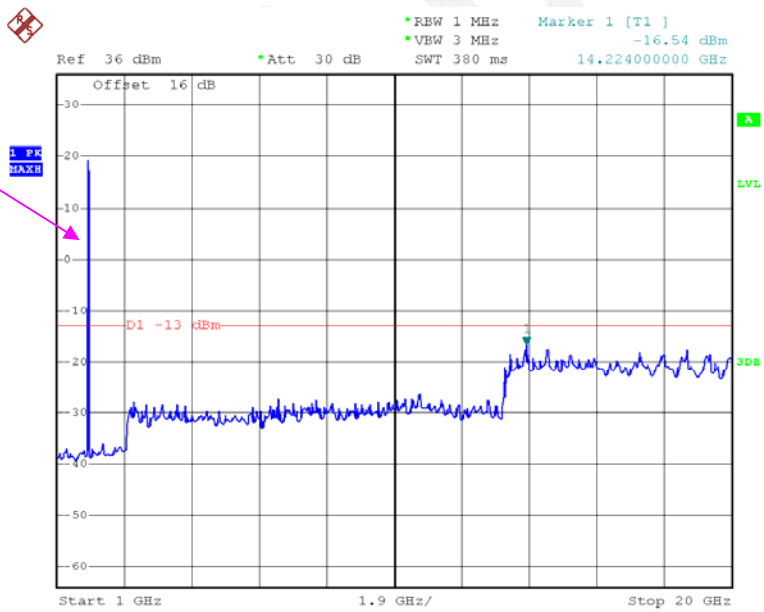
Date: 13.AUG.2015 18:39:54

### HSUPA Band II \_ Middle Channel



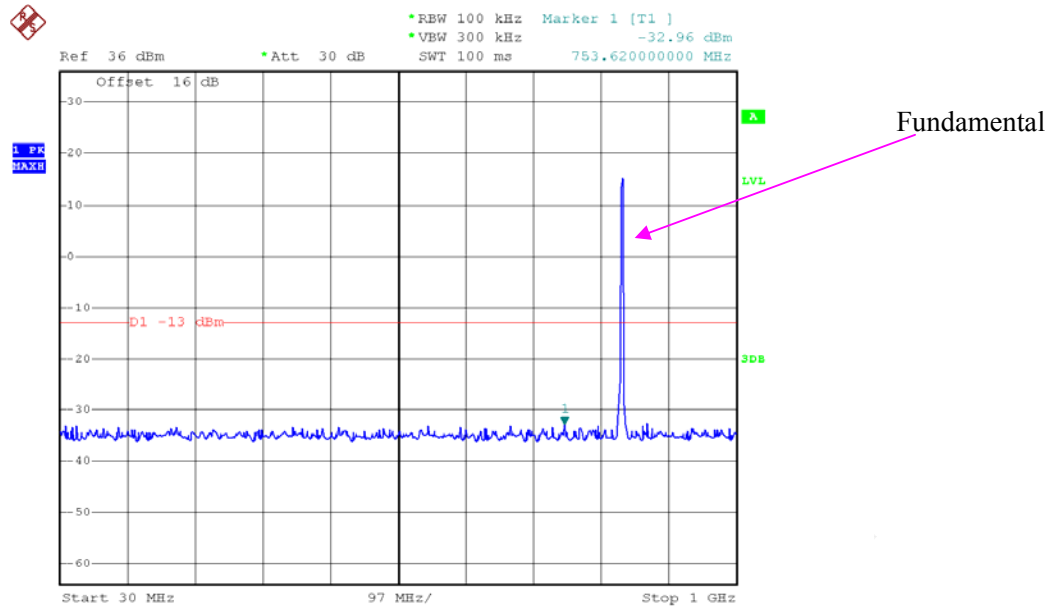
Date: 13.AUG.2015 18:37:41

Fundamental

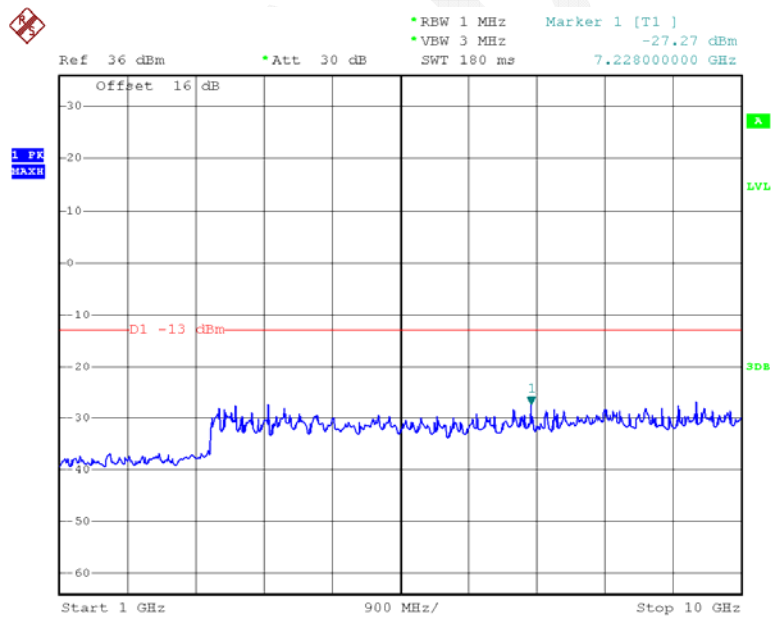


Date: 13.AUG.2015 18:40:11

### REL99 Band V\_ Middle Channel

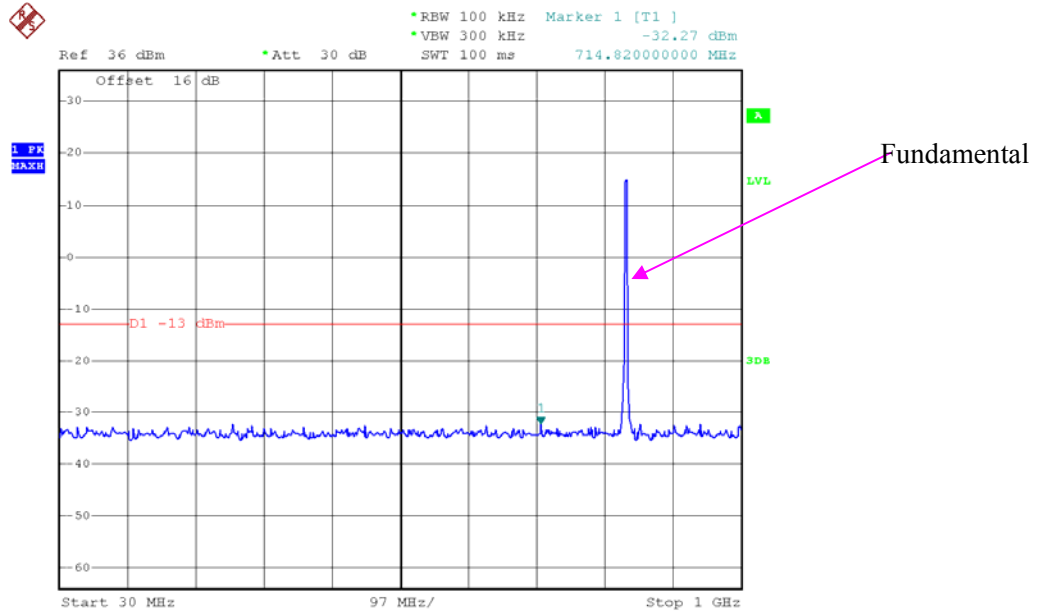


Date: 13.AUG.2015 18:47:17

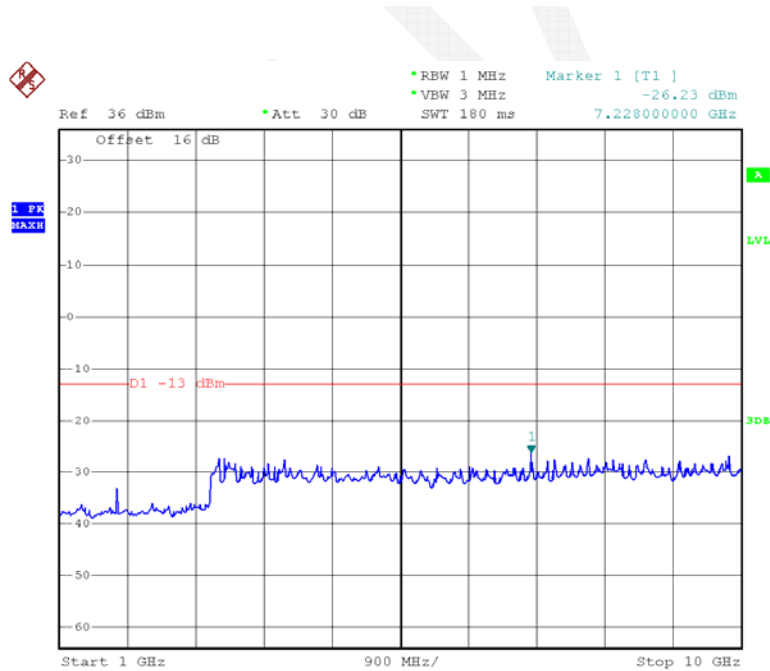


Date: 13.AUG.2015 18:49:45

### HSDPA Band V\_ Middle Channel

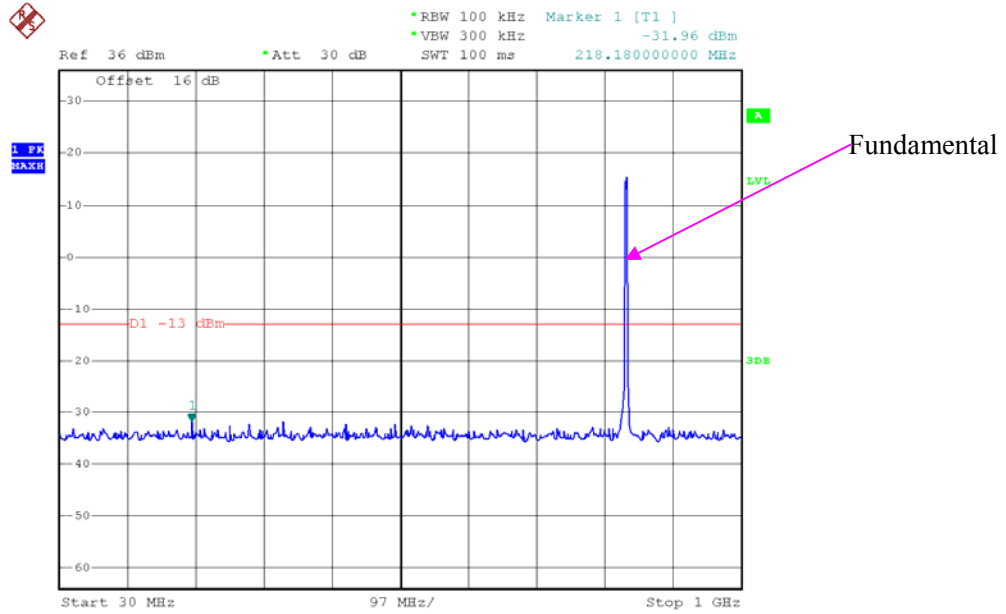


Date: 13.AUG.2015 18:46:40

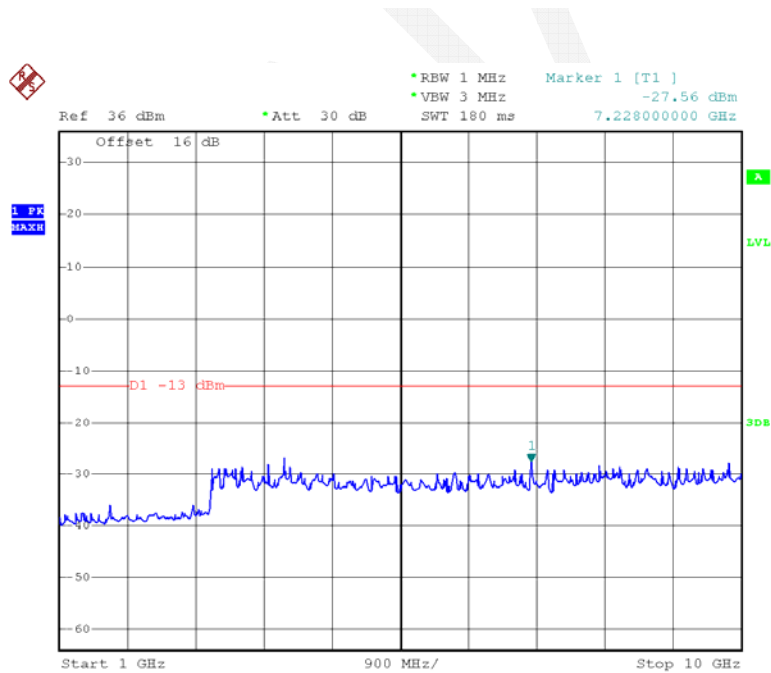


Date: 13.AUG.2015 18:49:23

### HSUPA Band V\_ Middle Channel



Date: 13.AUG.2015 18:47:06



Date: 13.AUG.2015 18:49:31

## **FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS**

### **Applicable Standard**

FCC § 2.1053, §22.917 and § 24.238.

### **Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log<sub>10</sub> (power out in Watts)

### **Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Giga	Signal Generator	1026	320408	2015-05-09	2016-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	27.3 °C
<b>Relative Humidity:</b>	59 %
<b>ATM Pressure:</b>	100.2 kPa

The testing was performed by Dean Liu on 2015-08-13.

EUT Operation Mode: Transmitting

**Cellular Band**

**30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Middle Channel								
1673.200	H	55.79	-45.3	10.6	1.5	-36.2	-13.0	23.2
1673.200	V	54.51	-46.9	10.6	1.5	-37.8	-13.0	24.8

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

**WCDMA Band V**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Middle Channel								
1673.200	H	55.60	-45.5	10.6	1.5	-36.4	-13.0	23.4
1673.200	V	54.03	-47.3	10.6	1.5	-38.2	-13.0	25.2

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

**PCS Band****30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Middle Channel								
3760.000	H	50.02	-44.3	13.8	2.9	-33.4	-13.0	20.4
3760.000	V	48.13	-44.9	13.8	2.9	-34.0	-13.0	21.0

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

**WCDMA Band II**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Middle Channel								
3760.000	H	49.20	-45.1	13.8	2.9	-34.2	-13.0	21.2
3760.000	V	47.86	-45.2	13.8	2.9	-34.3	-13.0	21.3

For below 1GHz, all spurious emissions are 20dB below the limit or are on the system noise floor level.

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level - Cable loss + Antenna Gain
- 3) Margin = Limit - Absolute Level

## FCC §22.917(a) & §24.238(a) - BAND EDGES

### Applicable Standard

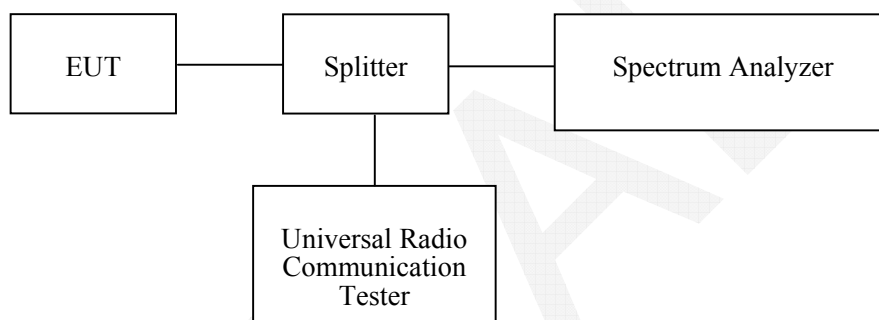
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

According to §24.238(a), the power of any emissions 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.

### Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	27.3 °C
<b>Relative Humidity:</b>	58%
<b>ATM Pressure:</b>	100.2kPa

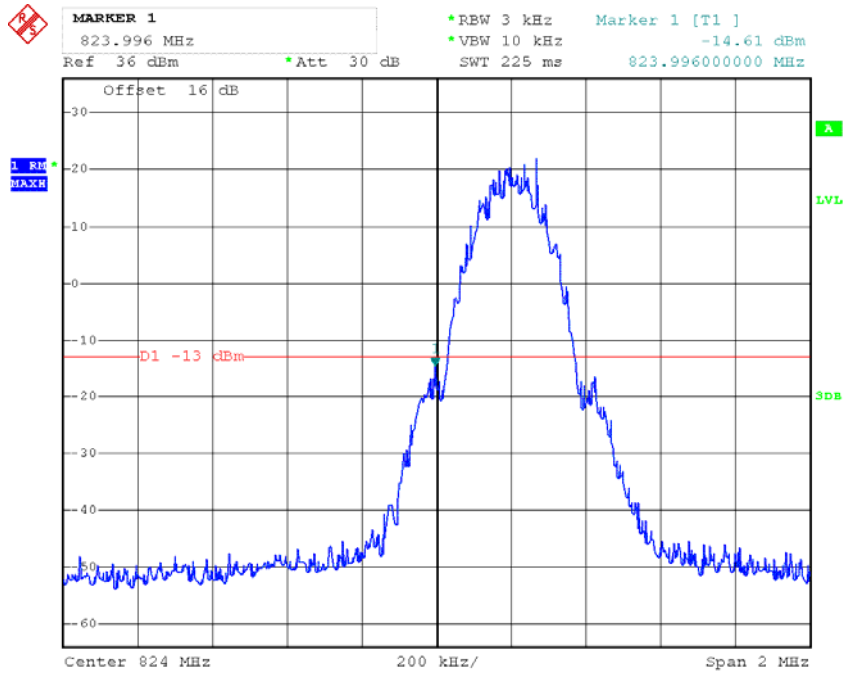
*The testing was performed by Dean Liu on 2015-08-13.*

*Test Mode: Transmitting*

*Test Result: Compliant. Please refer to the following plots.*

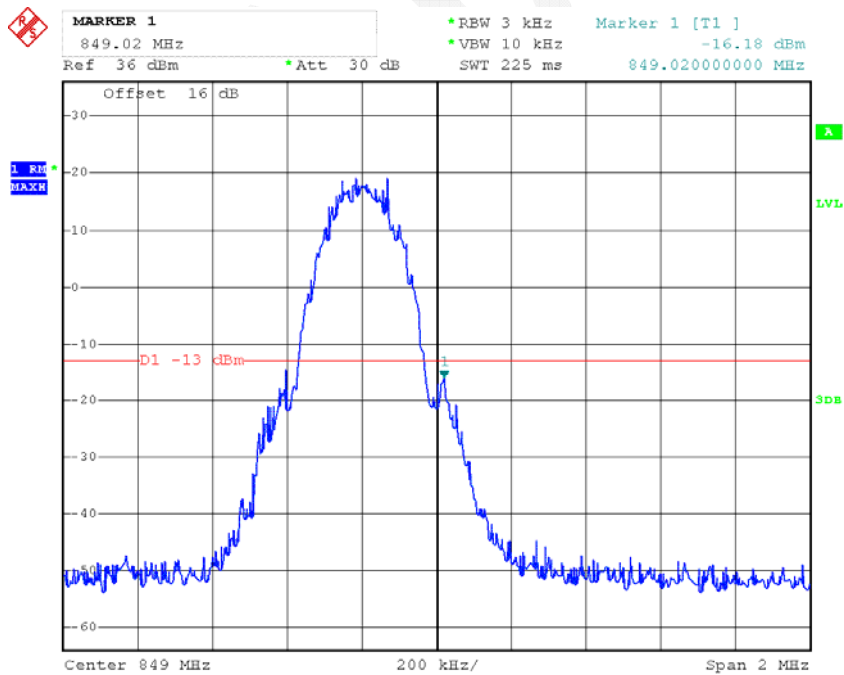
F I N A L

### GSM 850, Left Band Edge



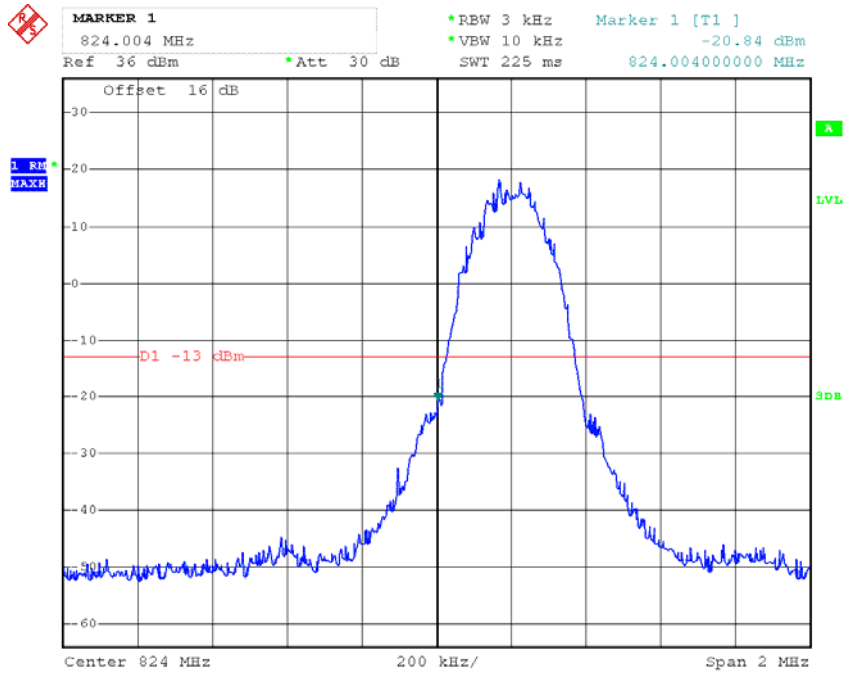
Date: 13.AUG.2015 11:31:41

### GSM 850, Right Band Edge



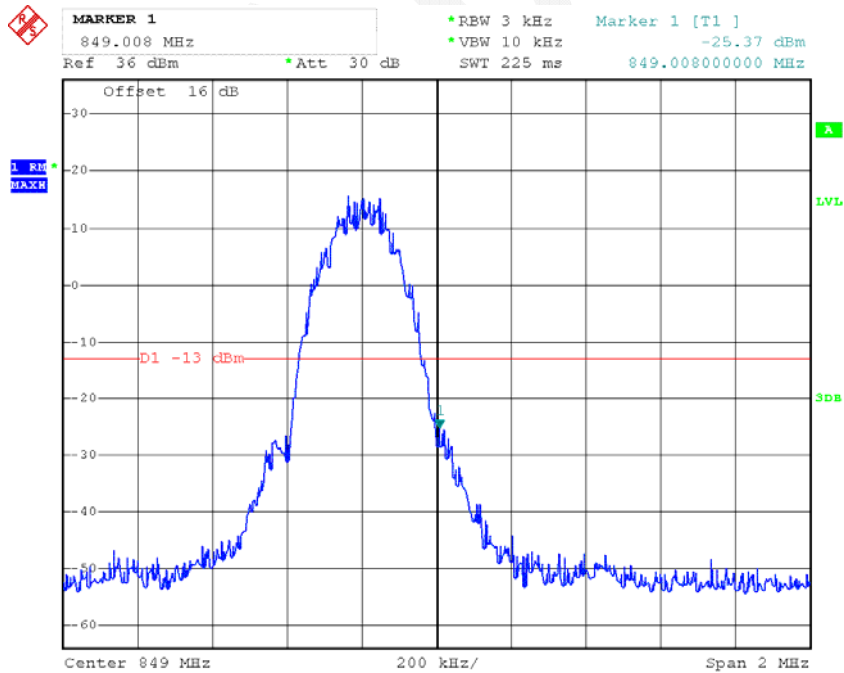
Date: 13.AUG.2015 11:33:49

### EDGE 850, Left Band Edge



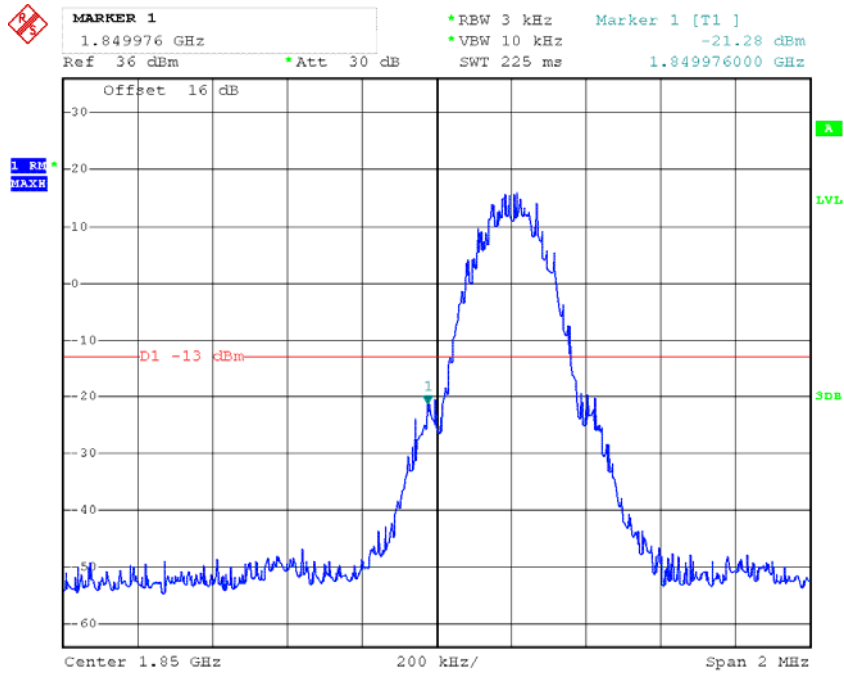
Date: 13.AUG.2015 11:53:15

### EDGE 850, Right Band Edge



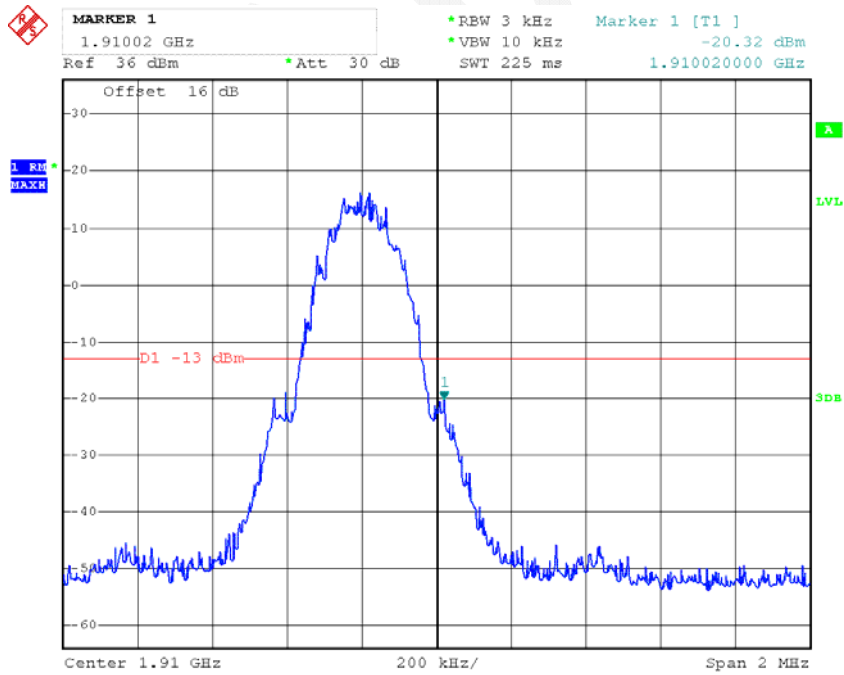
Date: 13.AUG.2015 11:54:29

### GSM 1900, Left Band Edge



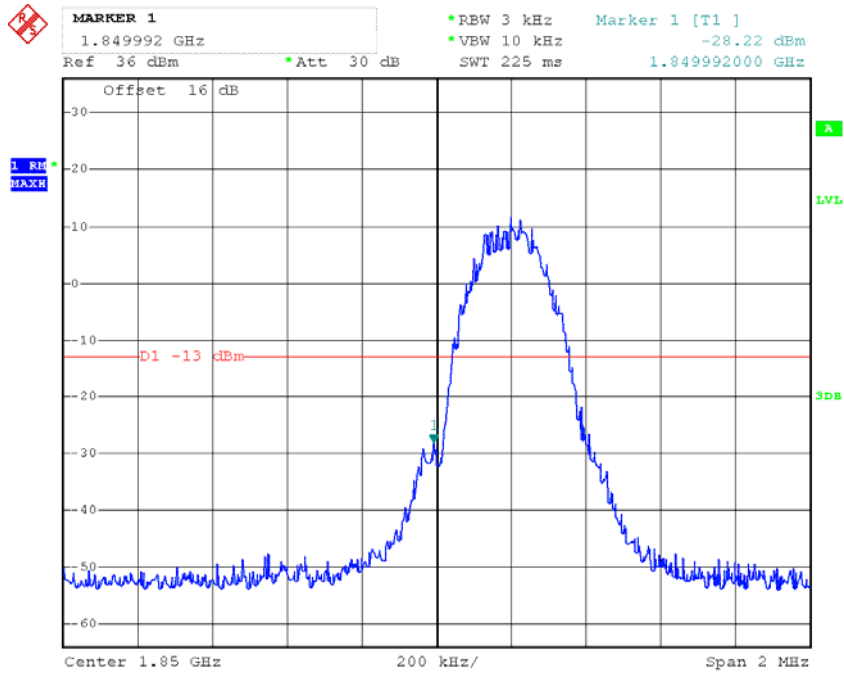
Date: 13.AUG.2015 11:57:56

### GSM 1900, Right Band Edge



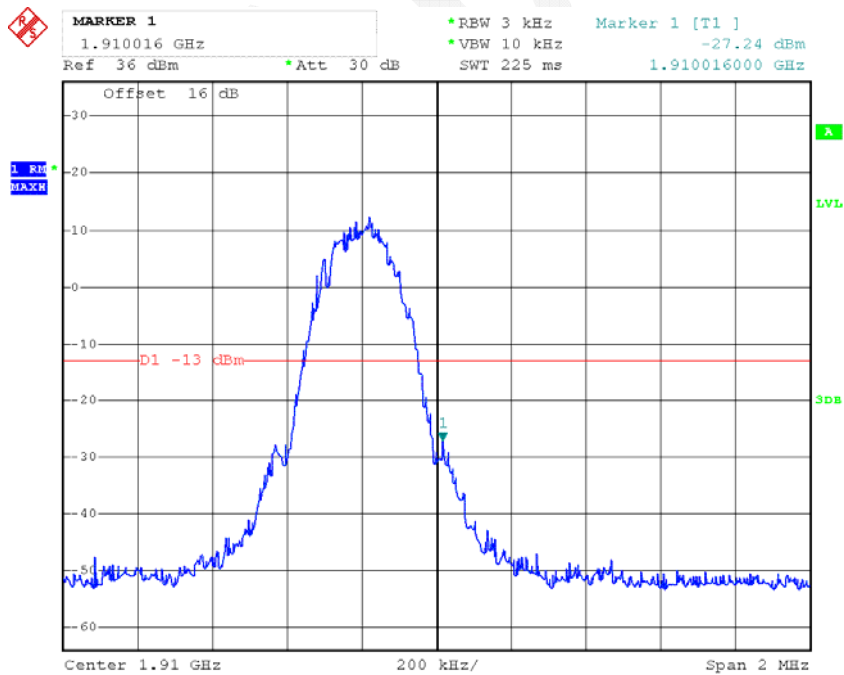
Date: 13.AUG.2015 11:58:54

**EDGE 1900, Left Band Edge**



Date: 13.AUG.2015 12:03:42

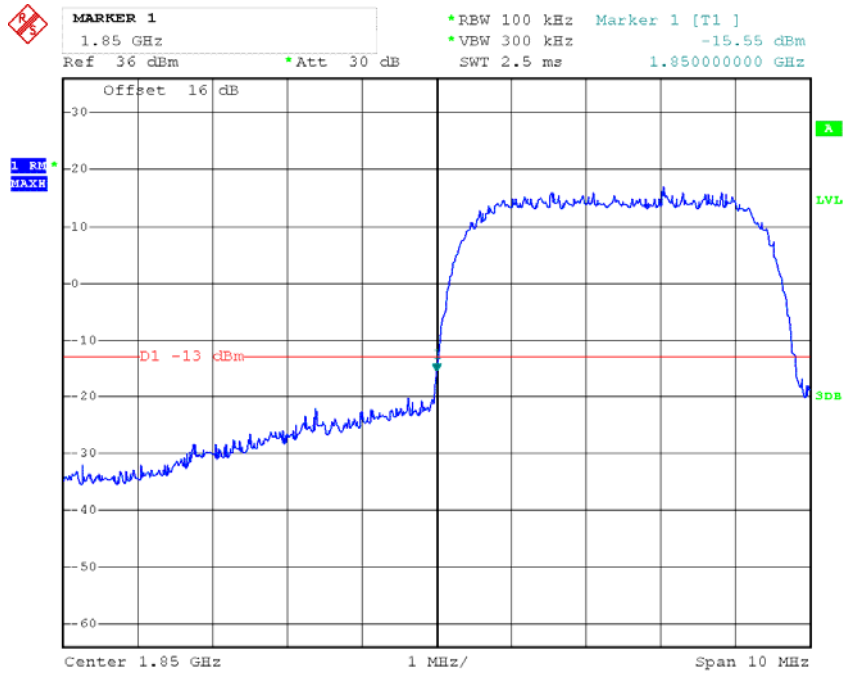
**EDGE 1900, Right Band Edge**



Date: 13.AUG.2015 12:02:21

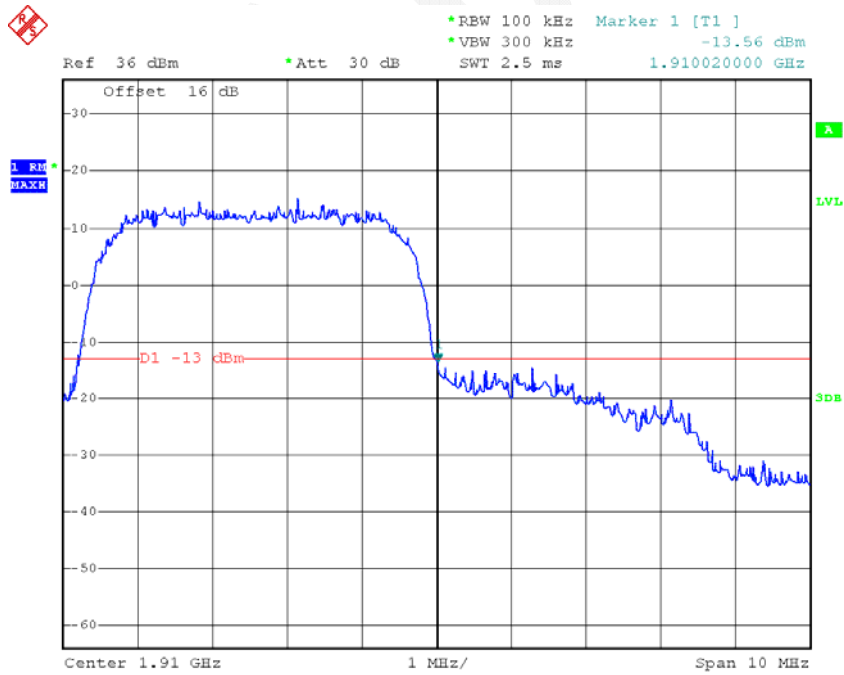


### REL99 Band II, Left Band Edge



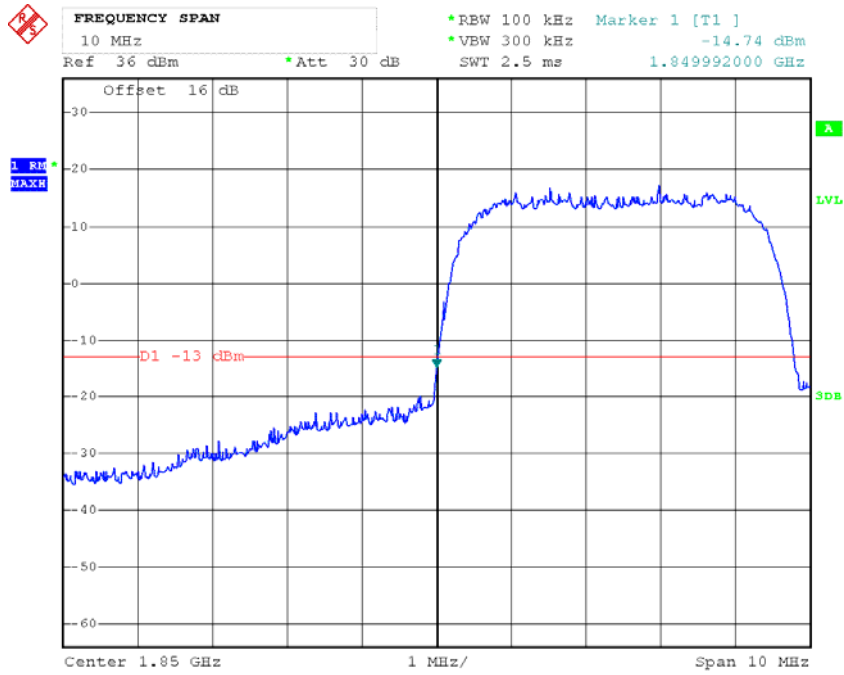
Date: 13.AUG.2015 12:09:28

### REL99 Band II, Right Band Edge



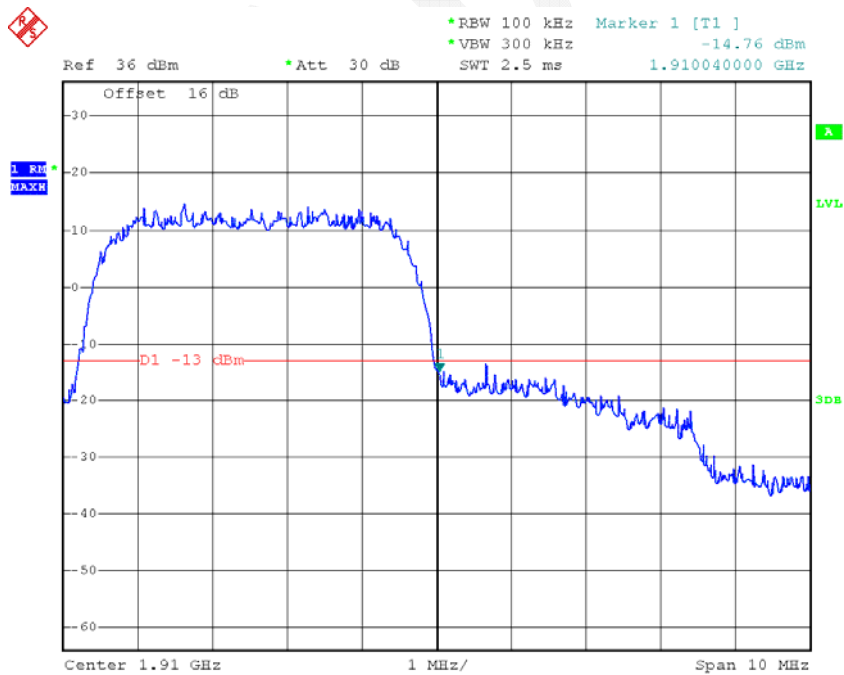
Date: 13.AUG.2015 12:14:12

### HSDPA Band II, Left Band Edge



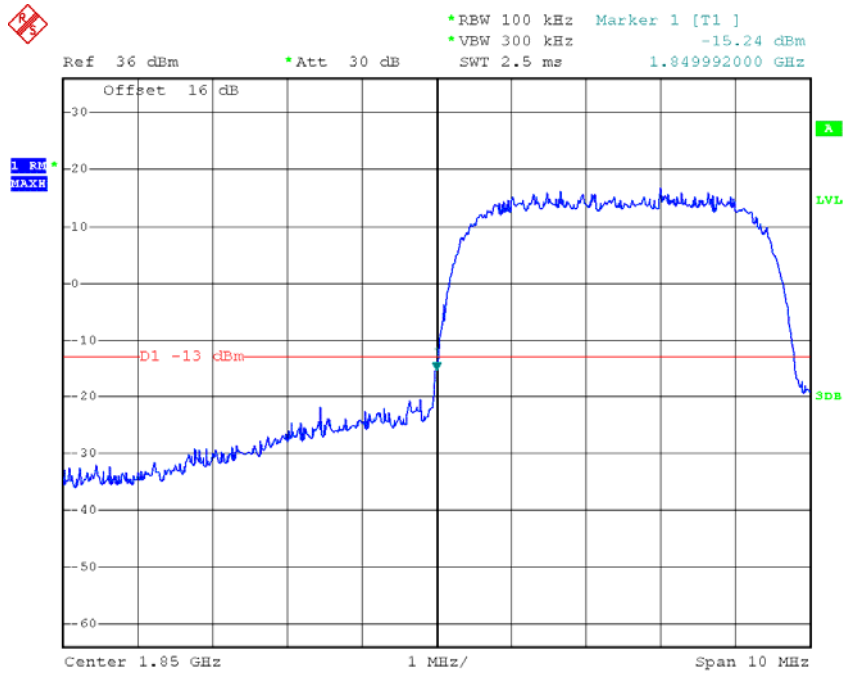
Date: 13.AUG.2015 12:08:31

### HSDPA Band II, Right Band Edge



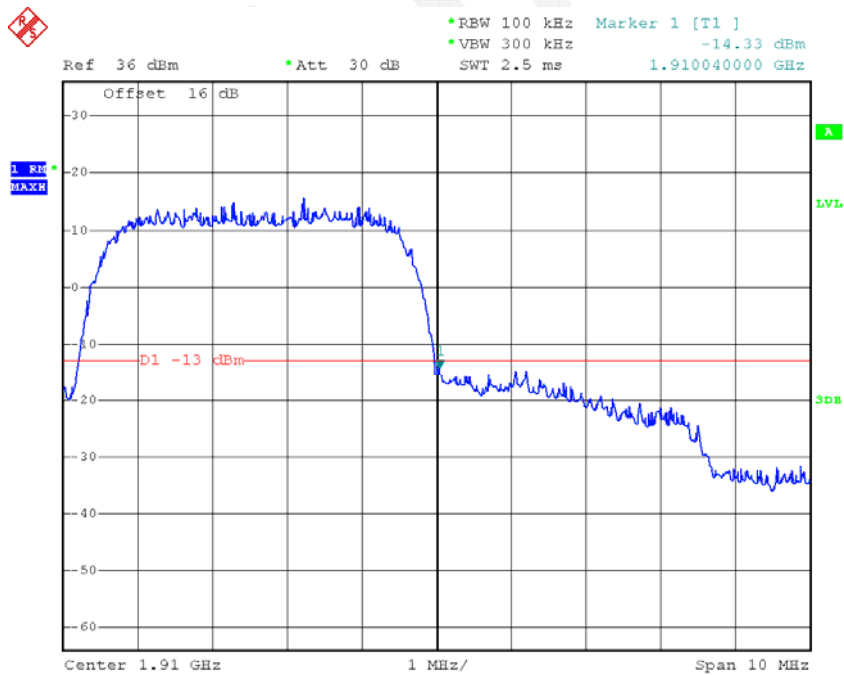
Date: 13.AUG.2015 12:12:28

### HSUPA Band II, Left Band Edge



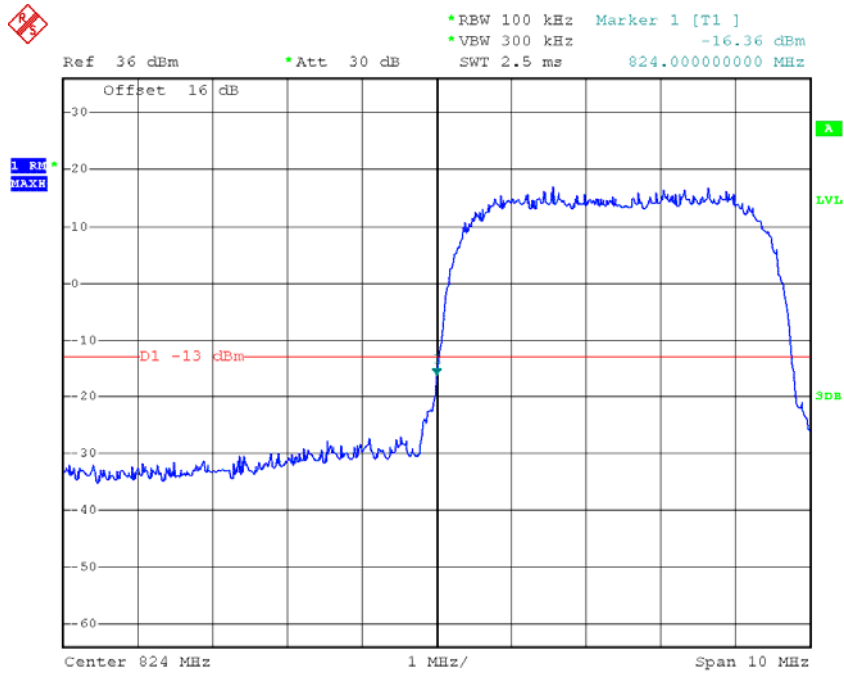
Date: 13.AUG.2015 12:09:01

### HSUPA Band II, Right Band Edge



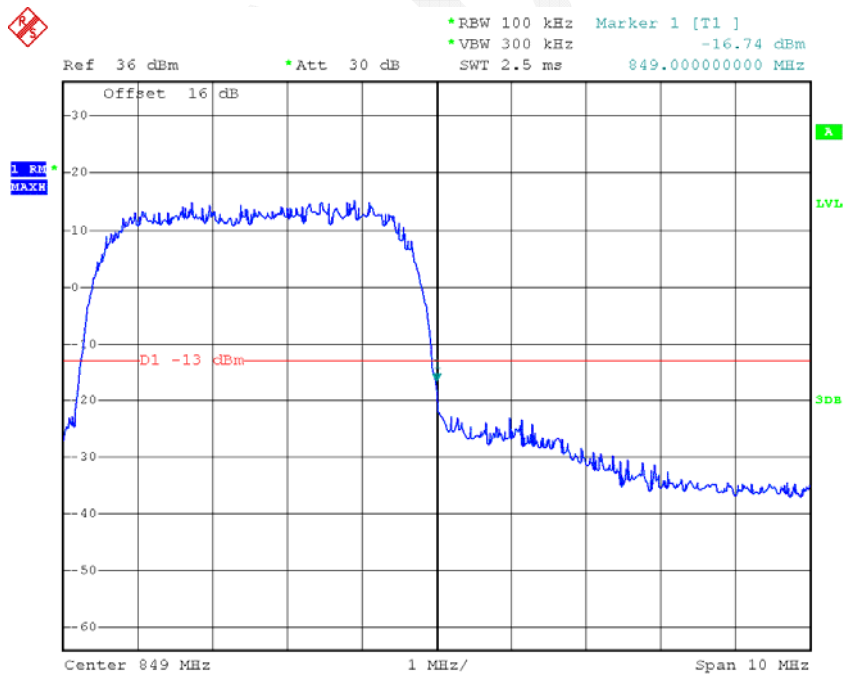
Date: 13.AUG.2015 12:12:48

### REL99 Band V, Left Band Edge



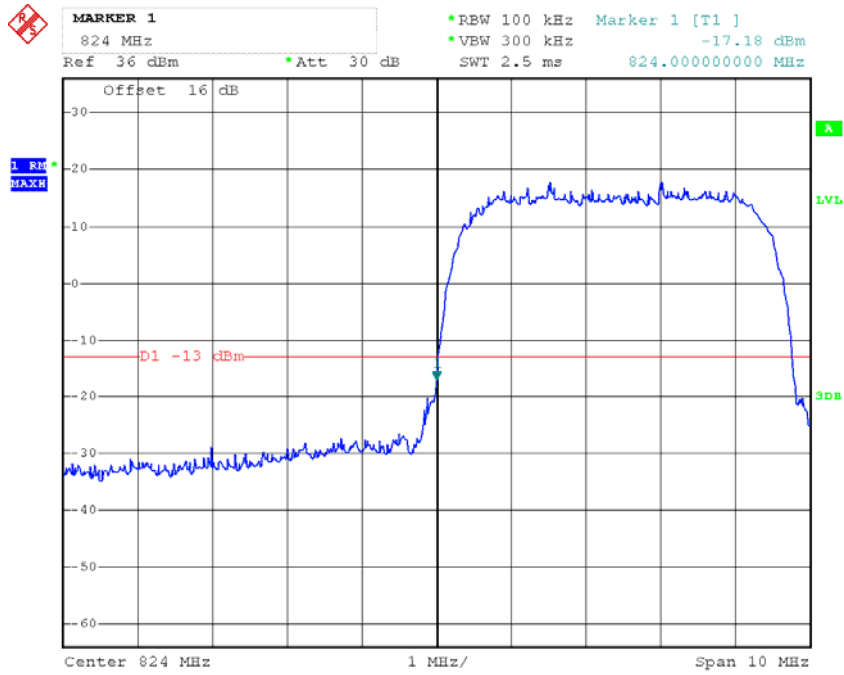
Date: 13.AUG.2015 13:31:53

### REL99 Band V, Right Band Edge



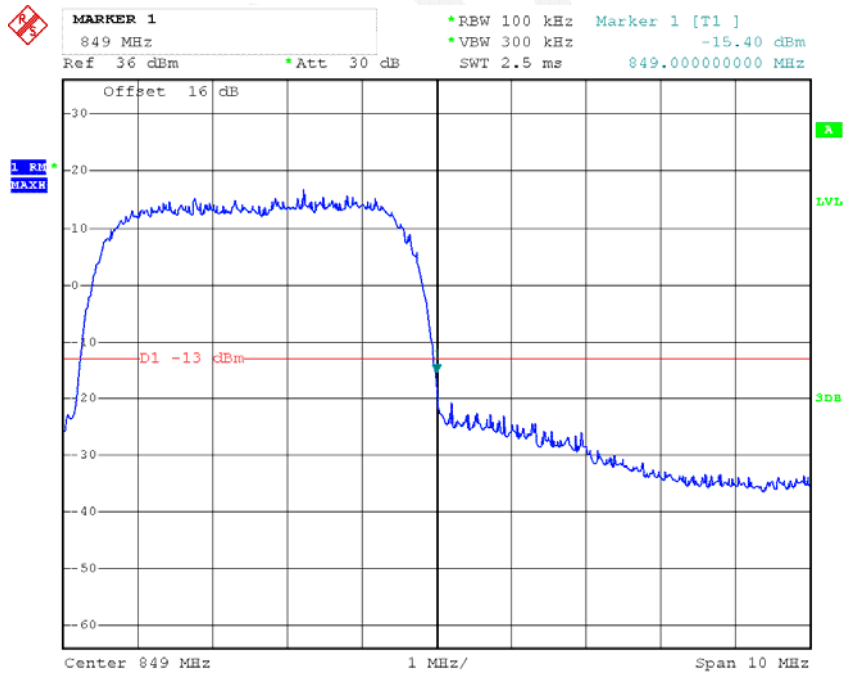
Date: 13.AUG.2015 13:35:00

### HSDPA Band V, Left Band Edge



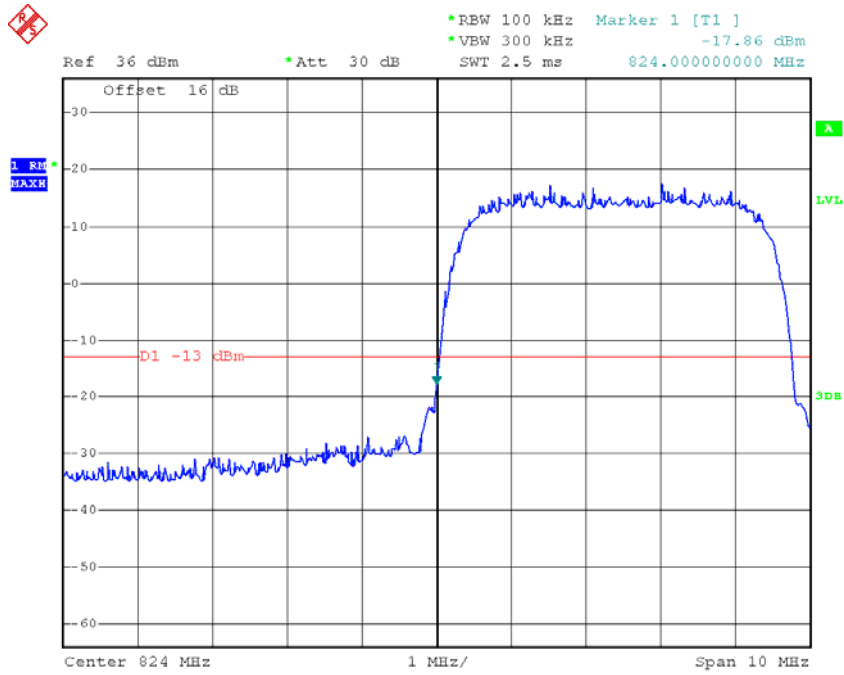
Date: 13.AUG.2015 13:31:11

### HSDPA Band V, Right Band Edge



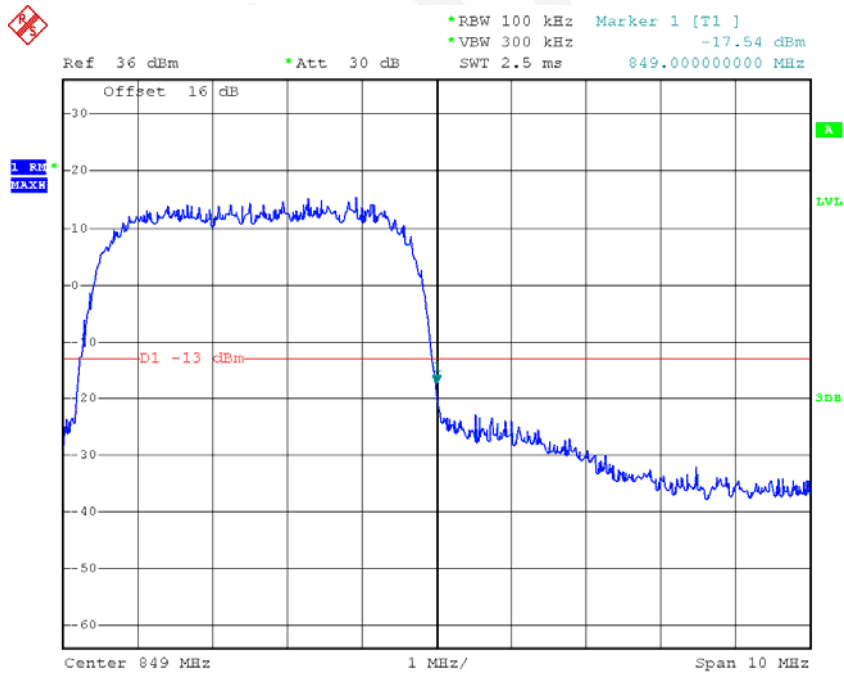
Date: 13.AUG.2015 13:34:39

### HSUPA Band V, Left Band Edge



Date: 13.AUG.2015 13:31:28

### HSUPA Band V, Right Band Edge



Date: 13.AUG.2015 13:34:49

## FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY

### Applicable Standard

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

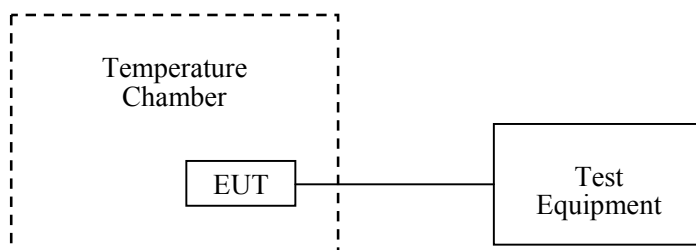
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

### Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2015-08-01	2016-08-01
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	27.3 °C
<b>Relative Humidity:</b>	58 %
<b>ATM Pressure:</b>	100.2kPa

The testing was performed by Dean Liu on 2015-08-13.

**Cellular Band (Part 22H)**

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V <sub>DC</sub>	Hz	ppm	ppm
-30	3.7	-15	-0.018	2.5
-20	3.7	-17	-0.020	2.5
-10	3.7	-12	-0.014	2.5
0	3.7	-16	-0.019	2.5
10	3.7	-14	-0.017	2.5
20	3.7	-11	-0.013	2.5
30	3.7	-15	-0.018	2.5
40	3.7	-14	-0.017	2.5
50	3.7	-13	-0.016	2.5
25	3.5	-15	-0.018	2.5
	4.2	-13	-0.016	2.5



8PSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V <sub>DC</sub>	Hz	ppm	ppm
-30	3.7	-18	-0.022	2.5
-20	3.7	-12	-0.014	2.5
-10	3.7	-13	-0.016	2.5
0	3.7	-14	-0.017	2.5
10	3.7	-16	-0.019	2.5
20	3.7	-17	-0.020	2.5
30	3.7	-16	-0.019	2.5
40	3.7	-17	-0.020	2.5
50	3.7	-12	-0.014	2.5
25	3.5	-13	-0.016	2.5
	4.2	-10	-0.012	2.5

**WCDMA Band V: Re199**

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V <sub>DC</sub>	Hz	ppm	ppm
-30	3.7	-13	-0.016	2.5
-20	3.7	-11	-0.013	2.5
-10	3.7	-10	-0.012	2.5
0	3.7	-16	-0.019	2.5
10	3.7	-12	-0.014	2.5
20	3.7	-11	-0.013	2.5
30	3.7	-12	-0.014	2.5
40	3.7	-15	-0.018	2.5
50	3.7	-11	-0.013	2.5
25	3.5	-16	-0.019	2.5
	4.2	-12	-0.014	2.5

**WCDMA Band V: HSDPA**

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V <sub>DC</sub>	Hz	ppm	ppm
-30	3.7	-11	-0.013	2.5
-20	3.7	-14	-0.017	2.5
-10	3.7	-16	-0.019	2.5
0	3.7	-18	-0.022	2.5
10	3.7	-15	-0.018	2.5
20	3.7	-14	-0.017	2.5
30	3.7	-11	-0.013	2.5
40	3.7	-16	-0.019	2.5
50	3.7	-15	-0.018	2.5
25	3.5	-18	-0.022	2.5
	4.2	-13	-0.016	2.5

**WCDMA Band V: HSUPA**

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V <sub>DC</sub>	Hz	ppm	ppm
-30	3.7	-13	-0.016	2.5
-20	3.7	-14	-0.017	2.5
-10	3.7	-15	-0.018	2.5
0	3.7	-11	-0.013	2.5
10	3.7	-15	-0.018	2.5
20	3.7	-11	-0.013	2.5
30	3.7	-12	-0.014	2.5
40	3.7	-14	-0.017	2.5
50	3.7	-11	-0.013	2.5
25	3.5	-15	-0.018	2.5
	4.2	-12	-0.014	2.5

**PCS Band (Part 24E)**

<b>GMSK, Middle Channel, <math>f_c = 1880.0</math> MHz</b>				
<b>Temperature</b>	<b>Voltage</b>	<b>Frequency Error</b>	<b>Frequency Error</b>	<b>Result</b>
<b>°C</b>	<b>V<sub>DC</sub></b>	<b>Hz</b>	<b>ppm</b>	
-30	3.7	-15	-0.008	Pass
-20	3.7	-20	-0.011	Pass
-10	3.7	-17	-0.009	Pass
0	3.7	-19	-0.010	Pass
10	3.7	-16	-0.009	Pass
20	3.7	-20	-0.011	Pass
30	3.7	-17	-0.009	Pass
40	3.7	-15	-0.008	Pass
50	3.7	-20	-0.011	Pass
25	3.5	-17	-0.009	Pass
	4.2	-21	-0.011	Pass

<b>8PSK, Middle Channel, <math>f_c = 1880.0</math> MHz</b>				
<b>Temperature</b>	<b>Voltage</b>	<b>Frequency Error</b>	<b>Frequency Error</b>	<b>Result</b>
<b>°C</b>	<b>V<sub>DC</sub></b>	<b>Hz</b>	<b>ppm</b>	
-30	3.7	-16	-0.009	Pass
-20	3.7	-11	-0.006	Pass
-10	3.7	-17	-0.009	Pass
0	3.7	-12	-0.006	Pass
10	3.7	-15	-0.008	Pass
20	3.7	-15	-0.008	Pass
30	3.7	-17	-0.009	Pass
40	3.7	-13	-0.007	Pass
50	3.7	-16	-0.009	Pass
25	3.5	-14	-0.007	Pass
	4.2	-18	-0.010	Pass

**WCDMA Band II: Re199**

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V <sub>DC</sub>	Hz	ppm	
-30	3.7	-13	-0.007	Pass
-20	3.7	-20	-0.011	Pass
-10	3.7	-18	-0.010	Pass
0	3.7	-15	-0.008	Pass
10	3.7	-12	-0.006	Pass
20	3.7	-14	-0.007	Pass
30	3.7	-17	-0.009	Pass
40	3.7	-15	-0.008	Pass
50	3.7	-14	-0.007	Pass
25	3.5	-18	-0.010	Pass
	4.2	-12	-0.006	Pass

**WCDMA Band II: HSDPA**

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V <sub>DC</sub>	Hz	ppm	
-30	3.7	-19	-0.010	Pass
-20	3.7	-21	-0.011	Pass
-10	3.7	-22	-0.012	Pass
0	3.7	-24	-0.013	Pass
10	3.7	-23	-0.012	Pass
20	3.7	-21	-0.011	Pass
30	3.7	-22	-0.012	Pass
40	3.7	-19	-0.010	Pass
50	3.7	-25	-0.013	Pass
25	3.5	-17	-0.009	Pass
	4.2	-23	-0.012	Pass

**WCDMA Band II: HSUPA**

<b>Middle Channel, <math>f_c = 1880.0</math> MHz</b>				
<b>Temperature</b>	<b>Voltage</b>	<b>Frequency Error</b>	<b>Frequency Error</b>	<b>Result</b>
<b>°C</b>	<b>V<sub>DC</sub></b>	<b>Hz</b>	<b>ppm</b>	
-30	3.7	-15	-0.008	Pass
-20	3.7	-17	-0.009	Pass
-10	3.7	-15	-0.008	Pass
0	3.7	-13	-0.007	Pass
10	3.7	-16	-0.009	Pass
20	3.7	-18	-0.010	Pass
30	3.7	-18	-0.010	Pass
40	3.7	-17	-0.009	Pass
50	3.7	-14	-0.007	Pass
25	3.5	-20	-0.011	Pass
	4.2	-16	-0.009	Pass

**\*\*\*\*\*END OF REPORT\*\*\*\*\***