

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

For

Swagtek

10205 NW 19th Street STE101, Miami, FL, 33172, USA

FCC ID: O55T2P00X

Report Type: Original Report	Product Type: 3G Tablet
Test Engineer: Dean Liu	<i>Dean Liu</i>
Report Number: RDG160128004-00D	
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Reviewed By: Sula Huang RF Leader	<i>Sula Huang</i>
Test Laboratory: Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn	

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Swagtek's product, model number: *T2P (FCC ID: O55T2P00X)* (the "EUT") in this report was a 3G Tablet, which was measured approximately: 20.1 cm (L) x 11.0 cm (W) x 1.0 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5.0V charging from adapter.

Adapter information:

Model: JHD-AP012U-050200AB

Input: AC100-240V, 50/60 Hz 0.35A

Output: DC 5V, 2000mA

Note: The series product, models T2P, T2, T2M, T7RG, Vista, Motion and UT7002 are electrically identical, the differences between them is model name, we selected T2P for fully testing, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 160128004 (Assigned by BACL, Dongguan). The EUT was received on 2016-01-29.

Objective

This report is prepared on behalf of Swagtek 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: O55T2P00X.

FCC Part 15.247 DSS submissions with FCC ID: O55T2P00X.

FCC Part 15.247 DTS submissions with FCC ID: O55T2P00X.

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 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.

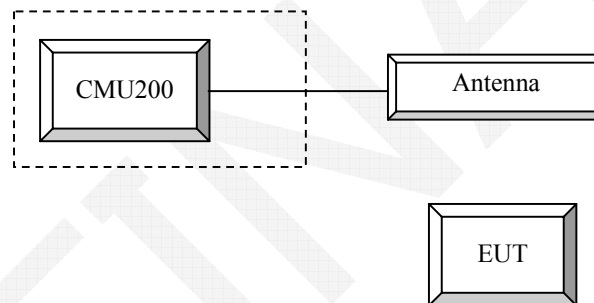
Equipment Modifications

No modification was made to the EUT.

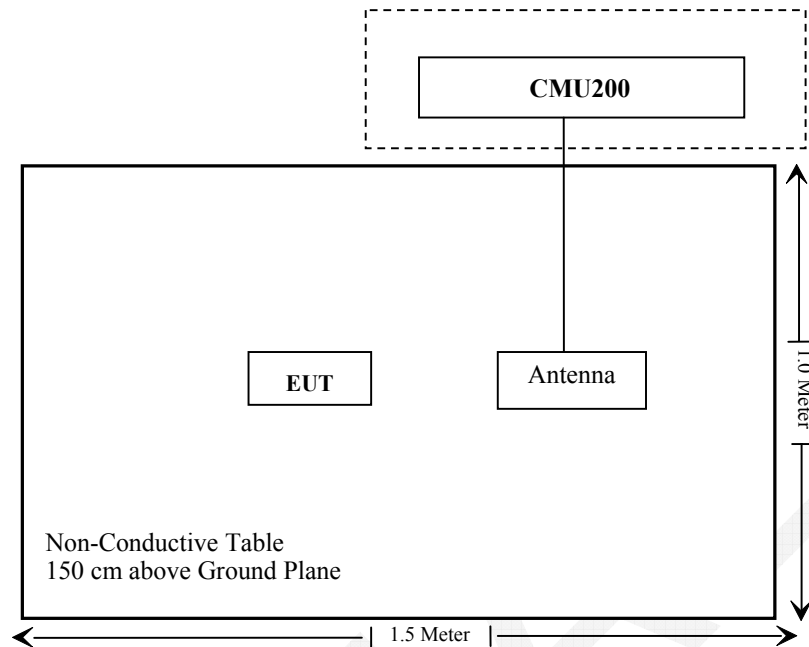
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Universal Radio Communication Tester	CMU200	109038

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§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

FCC §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RDG160128004-20.

FINAL

FCC §2.1047 - MODULATION CHARACTERISTIC

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

FINAL

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..

According to §24.232 (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. 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.

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).

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

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2	3	4	5
WCDMA A General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{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
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs}=\beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	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	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{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	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{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 β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{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
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.		
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.		

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	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
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	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(3dB)	EMCA03-5RN	0E01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

* **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**

Temperature:	20.7°C
Relative Humidity:	48%
ATM Pressure:	101.6kPa

The testing was performed by Dean Liu on 2016-02-05.

Conducted Output 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	32.36	31.78	30.25	29.21	28.47	27.83	26.81	25.45	24.12
	190	32.41	31.20	30.27	29.71	28.01	27.72	26.80	25.52	24.14
	251	32.37	31.13	30.11	29.05	28.32	27.61	26.82	25.41	24.20
PCS	512	29.87	28.90	27.73	26.47	25.53	26.67	25.45	24.33	23.26
	661	29.95	28.59	27.55	26.67	25.72	26.65	25.39	24.37	23.54
	810	29.92	28.63	27.11	26.19	25.24	26.68	25.37	24.36	23.41

WCDMA Band (PART 24E)

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	22.58	2.56	22.38	3.00	22.36	2.80
HSDPA	1	21.97	2.53	21.84	2.94	21.81	2.85
	2	22.27	2.62	22.14	3.05	21.78	2.78
	3	22.25	2.68	22.28	2.87	21.72	2.71
	4	22.01	2.60	22.17	2.93	21.78	2.70
HSUPA	1	22.18	2.48	22.24	2.94	21.71	2.79
	2	22.18	2.42	22.26	3.04	21.71	2.70
	3	21.96	2.94	22.14	3.05	21.75	2.83
	4	22.06	2.96	21.85	2.99	21.59	2.73
	5	22.03	2.51	22.15	2.94	21.72	2.81
DC-HSDPA	1	22.31	2.48	22.04	3.12	21.64	2.83
	2	21.97	2.65	22.19	3.03	21.56	2.87
	3	22.13	2.81	21.91	2.93	21.54	2.82
	4	22.05	2.67	22.04	3.07	21.48	2.75
HSPA+ (16QAM)	1	22.00	2.81	21.89	2.90	21.56	2.88

WCDMA Band V (PART 22H)

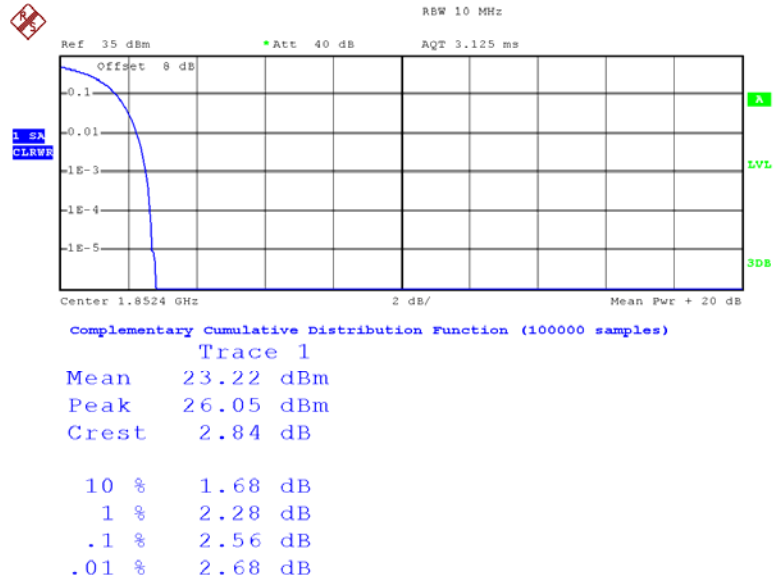
Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	22.25	2.92	22.57	2.84	22.39	3.00
HSDPA	1	21.87	2.91	22.04	2.67	21.85	2.98
	2	21.86	2.87	22.04	2.97	21.81	2.91
	3	21.86	2.91	22.01	2.92	21.82	3.00
	4	21.76	2.73	21.96	2.81	21.70	2.73
HSUPA	1	21.77	3.01	21.88	3.09	21.67	3.08
	2	21.72	2.96	21.86	3.05	21.67	3.02
	3	21.79	2.76	21.90	2.80	21.78	2.79
	4	21.80	2.82	21.97	2.85	21.79	2.86
	5	21.66	2.90	21.79	2.92	21.59	2.97
DC-HSDPA	1	22.35	3.01	22.47	3.07	22.34	3.08
	2	21.71	2.91	21.91	2.93	21.62	2.94
	3	21.69	2.89	21.89	2.97	21.64	2.96
	4	21.68	2.83	21.84	2.85	21.61	2.92
HSPA+ (16QAM)	1	21.58	3.00	21.75	3.01	21.84	3.08

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

Peak-to-average ratio (PAR)

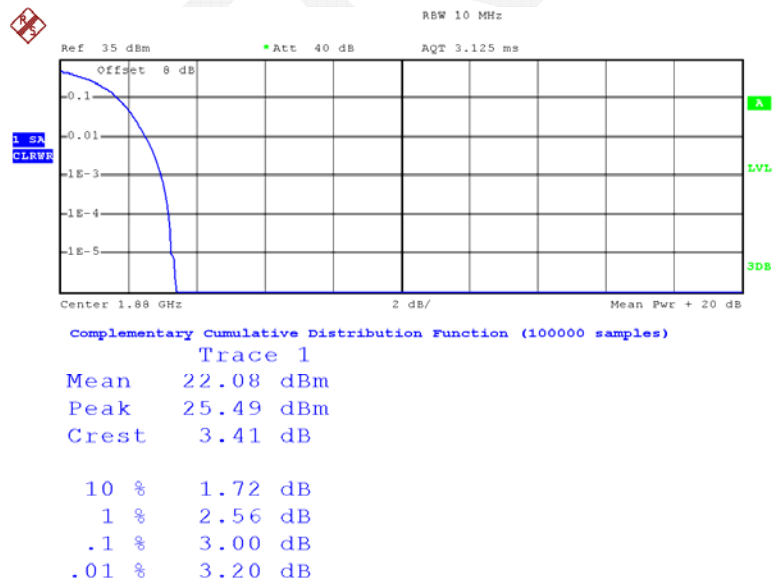
WCDMA Band (PART 24E)

Low Channel



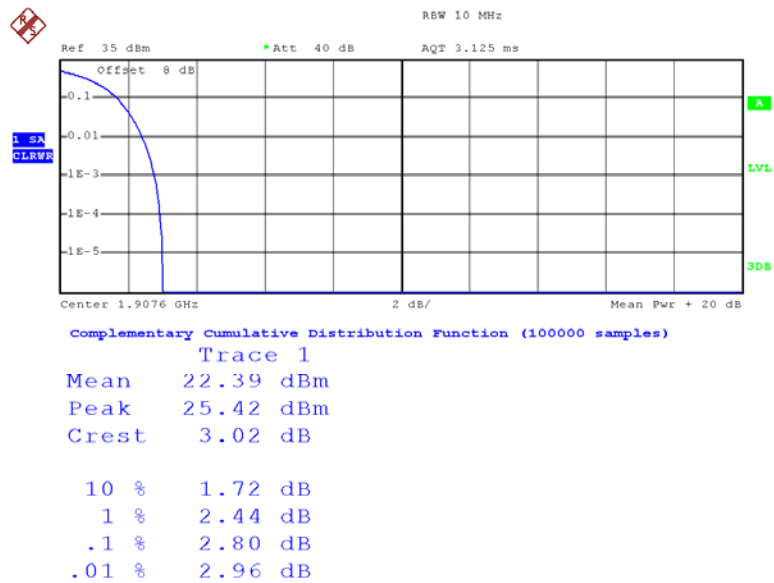
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Middle Channel



Date: 5.FEB.2016 11:37:28

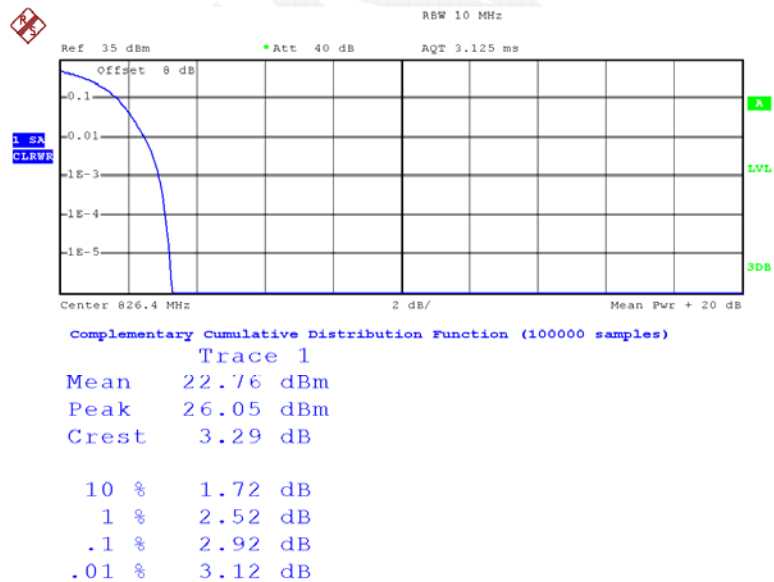
High Channel



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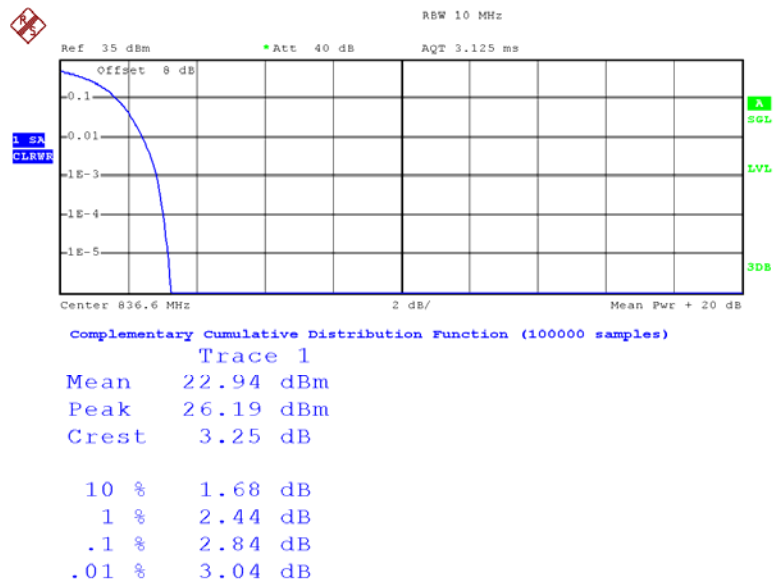
WCDMA Band V (PART 22H)

Low Channel



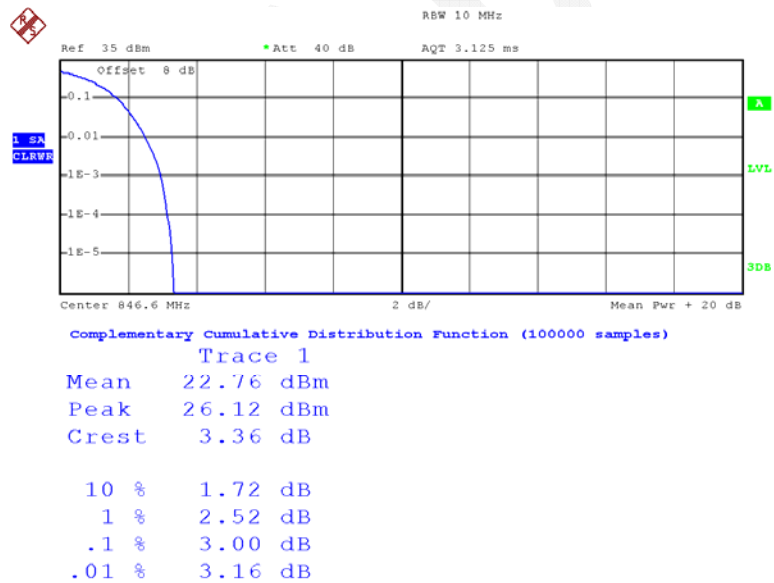
Date: 5.FEB.2016 11:29:19

Middle Channel



Date: 5.FEB.2016 11:34:18

High Channel



Date: 5.FEB.2016 11:35:54

ERP & EIRP

Part 22H

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)			
GSM 850_Middle Channel								
836.600	H	103.75	28.8	0.0	1	27.8	38.45	10.7
836.600	V	102.28	30.5	0.0	1	29.5	38.45	9.0
EGPRS 850_Middle Channel								
836.600	H	96.56	21.6	0.0	1	20.6	38.45	17.9
836.600	V	98.53	26.7	0.0	1	25.7	38.45	12.8
WCDMA Band V_Middle Channel								
836.600	H	90.33	15.4	0.0	1	14.4	38.45	24.1
836.600	V	92.17	20.4	0.0	1	19.4	38.45	19.1

Part 24E

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)			
PCS 1900_Middle Channel								
1880.000	H	86.23	14.6	11.7	1.4	24.9	33.0	8.1
1880.000	V	88.91	17.5	11.7	1.4	27.8	33.0	5.2
EGPRS1900_Middle Channel								
1880.000	H	84.15	11.6	11.7	1.4	21.9	33.0	11.1
1880.000	V	85.69	14.2	11.7	1.4	24.5	33.0	8.5
WCDMA Band II_Middle Channel								
1880.000	H	76.68	5.1	11.7	1.4	15.4	33.0	17.6
1880.000	V	80.2	8.7	11.7	1.4	19	33.0	14

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

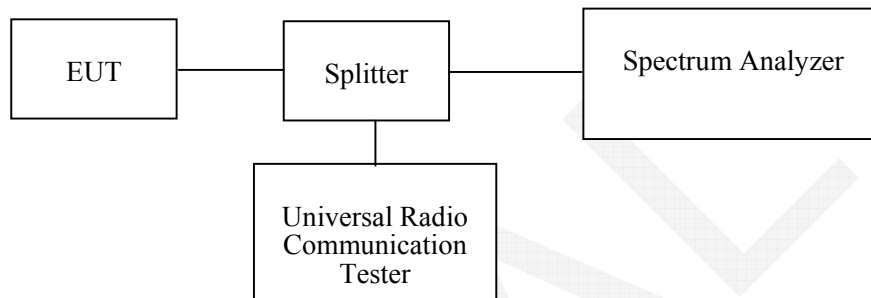
Applicable Standard

FCC §2.1049, §22.917 and §22.905, §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	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(3dB)	EMCA03-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

* **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**

Temperature:	20.7°C
Relative Humidity:	48%
ATM Pressure:	101.6kPa

The testing was performed by Dean Liu on 2016-02-04.

Test Mode: Transmitting

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

FINAL

Band	Channel No.	Mode	99% Occupied Bandwidth	26 dB Occupied Bandwidth
			kHz	kHz
Cellular	190	GSM	246	321
		EDGE	251	321
PCS	661	PCS	246	321
		EDGE	240	325
WCDMA Band	9400	Rel 99	4168	4770
	9400	HSDPA	4168	4749
	9400	HSUPA	4168	4749
WCDMA Band V	4183	Rel 99	4168	4770
	4183	HSDPA	4168	4749
	4183	HSUPA	4168	4749

Ref Lvl 35 dBm

Delta 1 [T1] 0.71 dB

320.64128256 kHz

RBW 3 kHz

VBW 10 kHz

SWT 280 ms

RF Att 40 dB

Unit dBm

8 dB Offset

-D1 26.28 dBm

1MAX 0.28 dBm

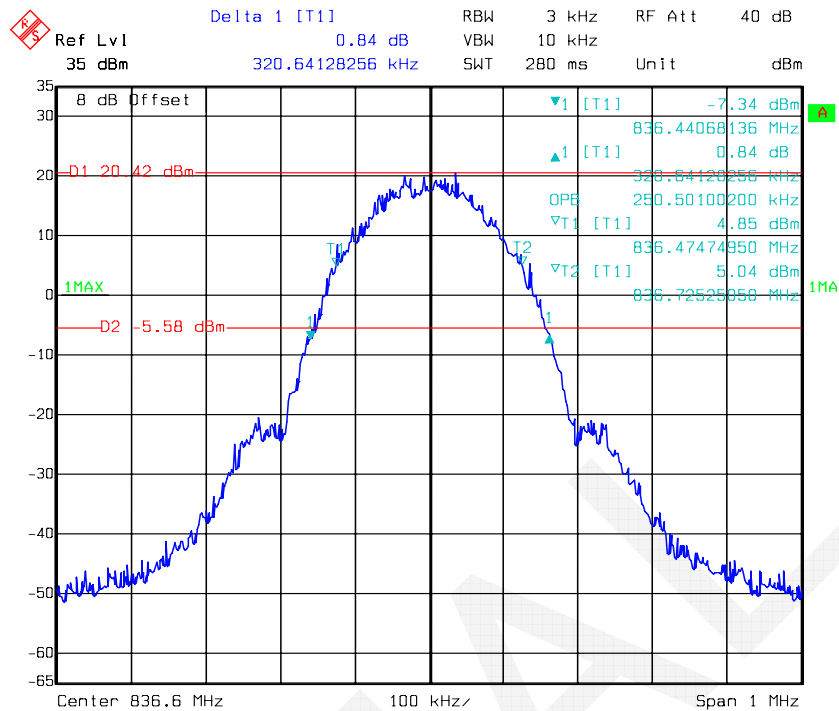
Center 836.6 MHz

100 kHz

Span 1 MHz

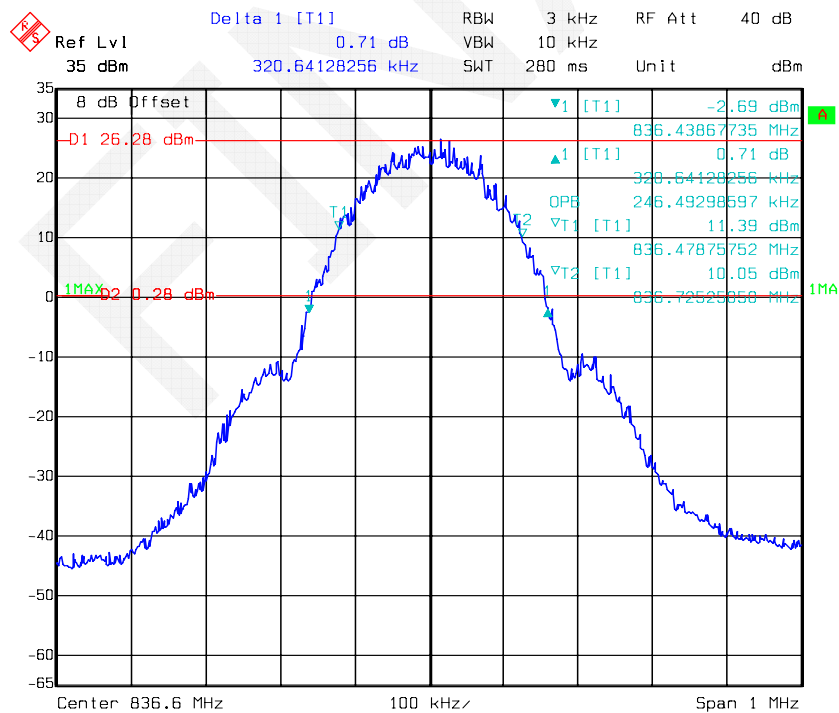
Date: 04.FEB.2016 19:36:10

EDGE 850 Cellular Band



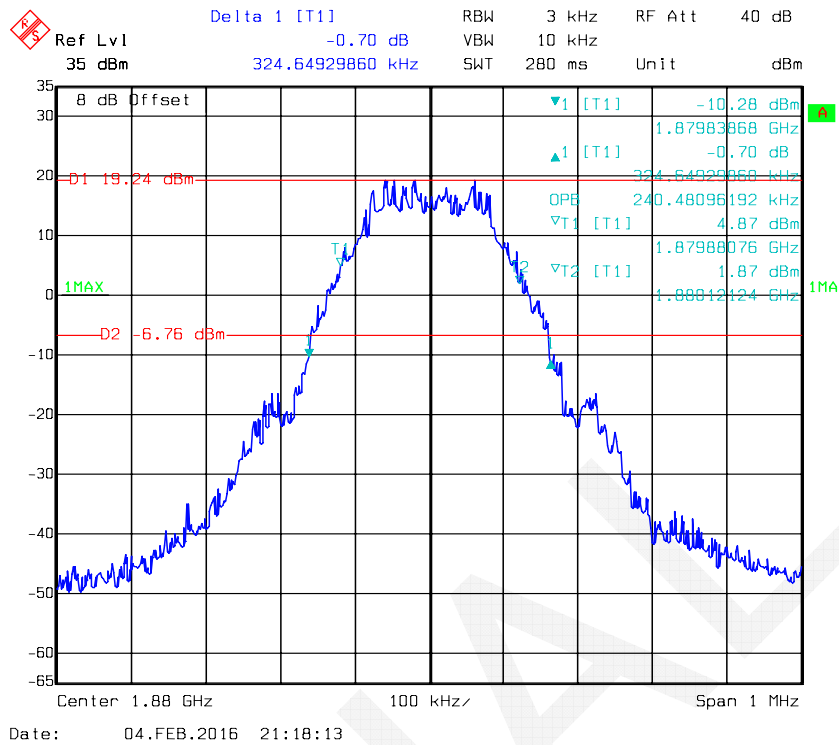
Date: 04.FEB.2016 21:03:32

GMSK PCS Band

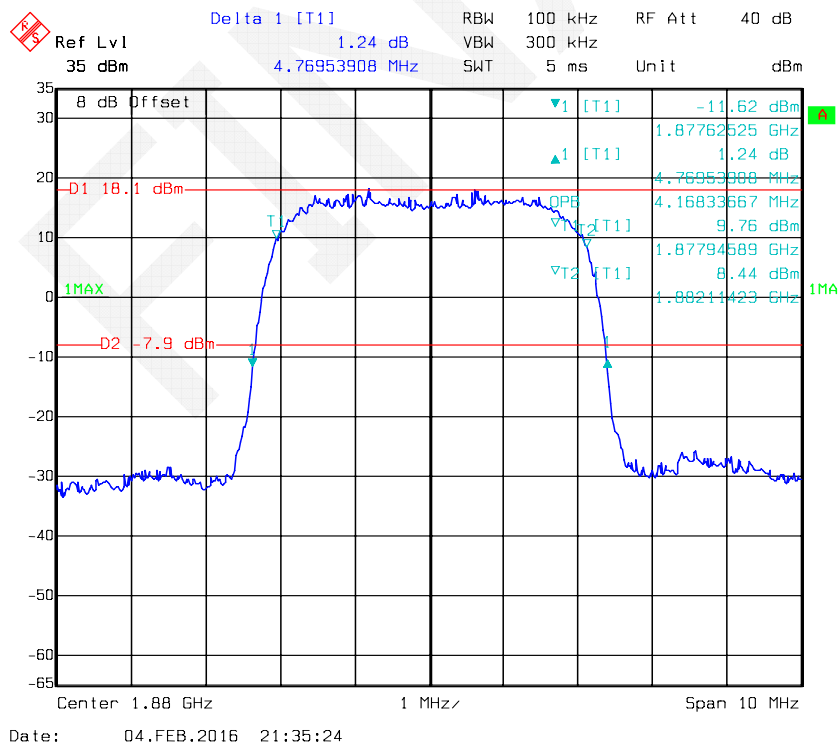


Date: 04.FEB.2016 19:36:10

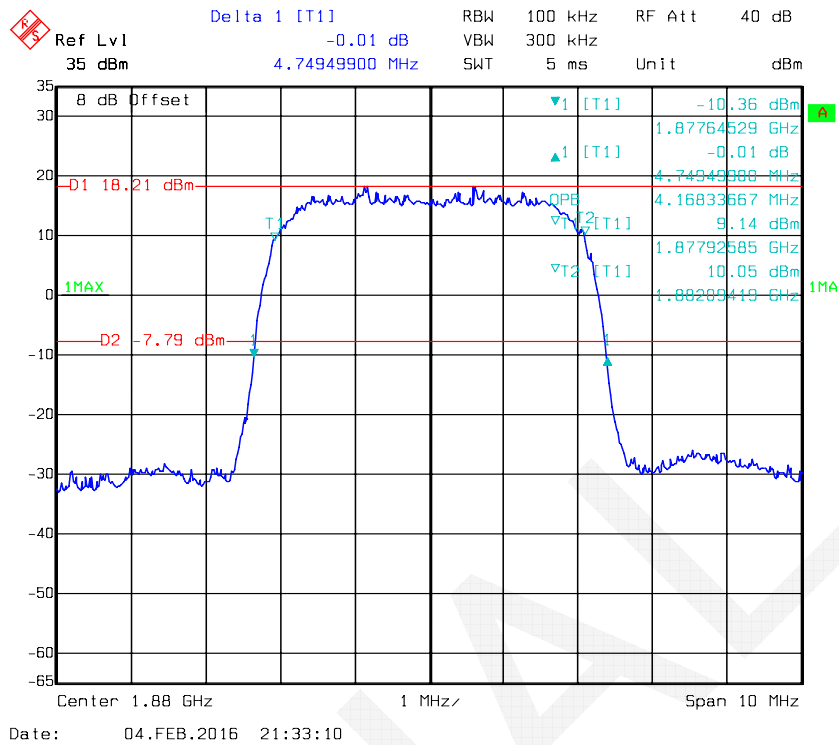
EDGE PCS Band



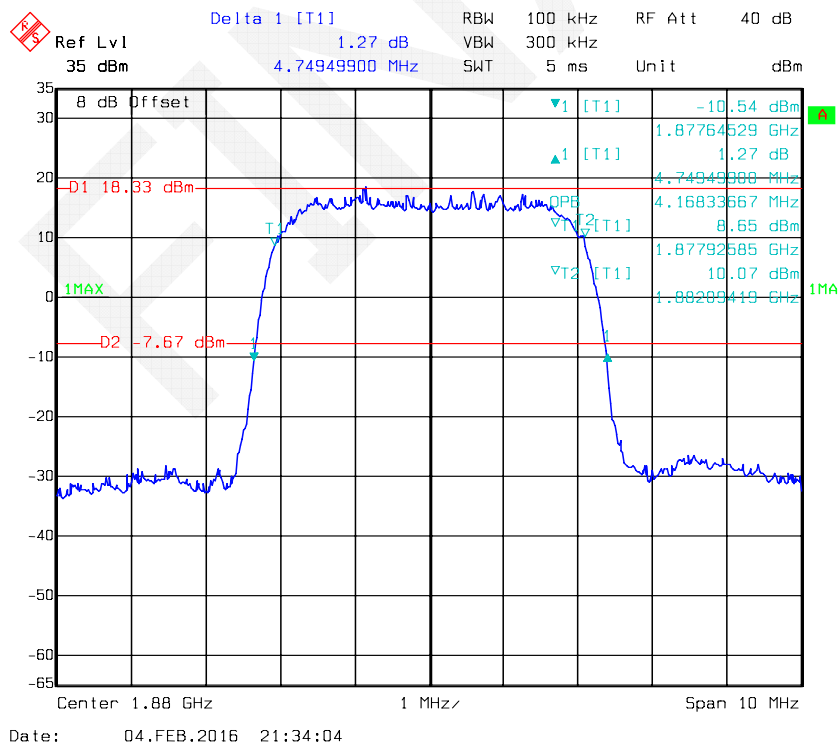
REL99 Band II



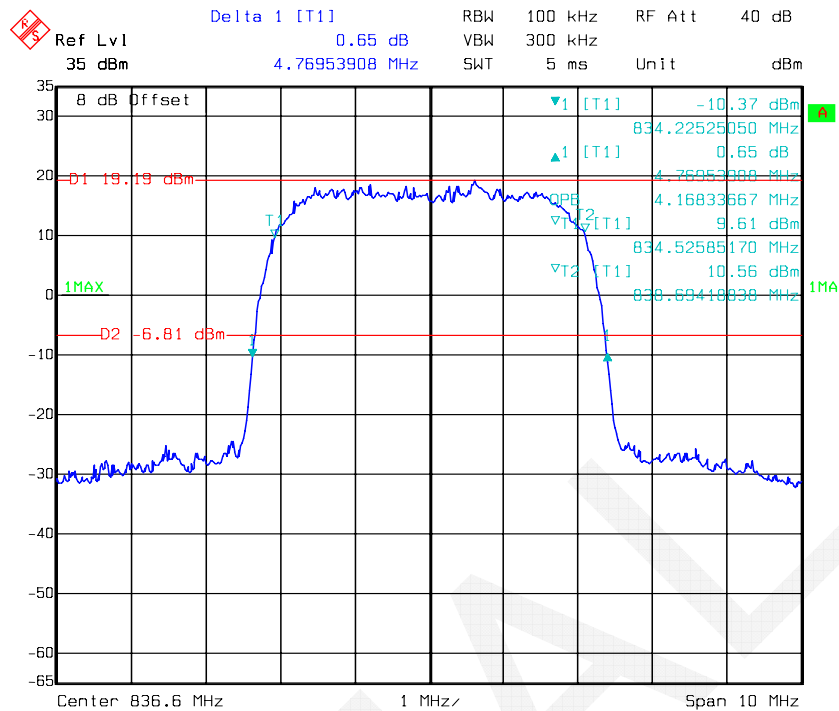
HSDPA Band II



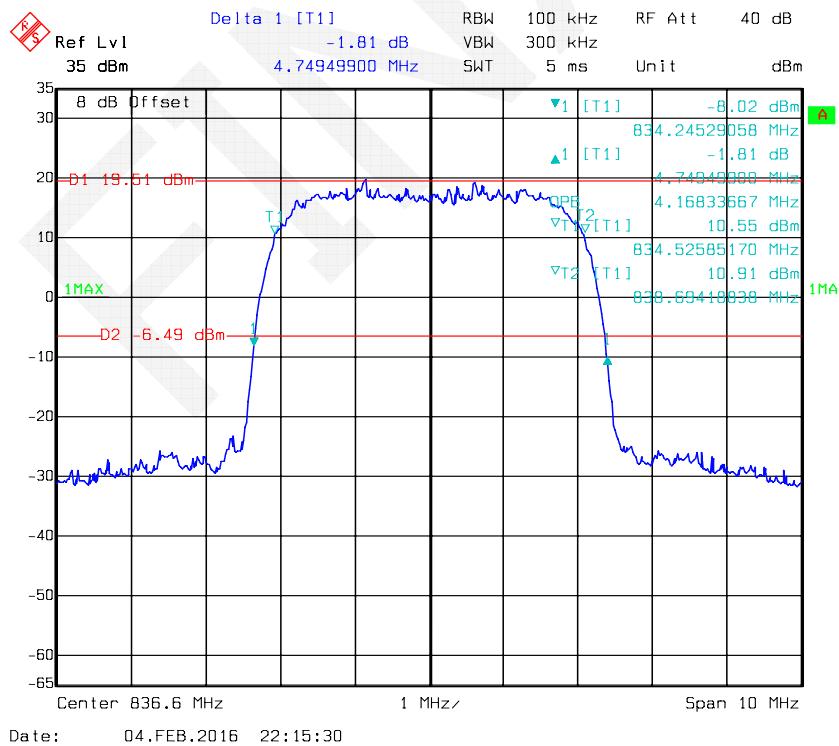
HSUPA Band II



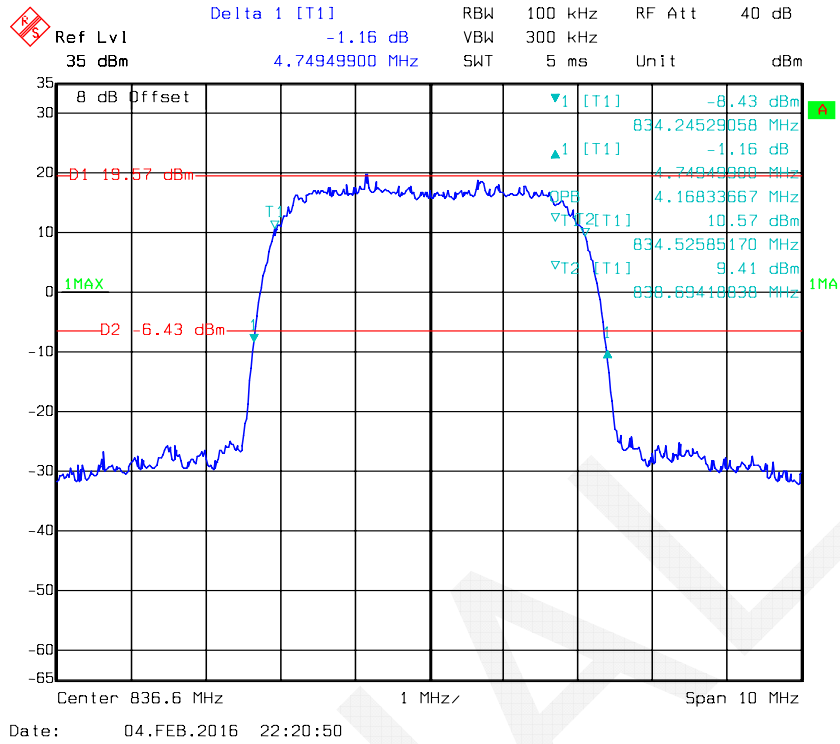
REL99 Band V



HSDPA Band V



HSUPA Band V



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

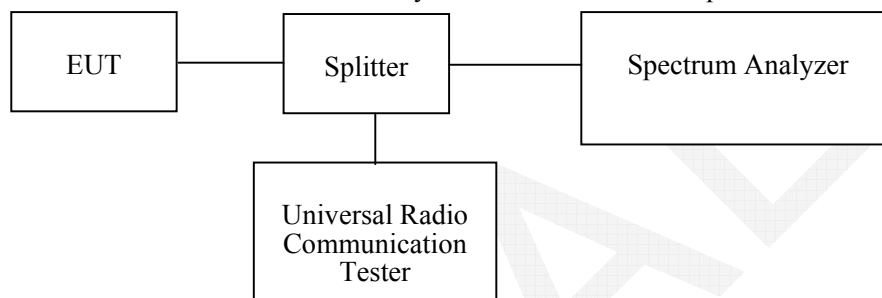
Applicable Standard

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 10th harmonic.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(3dB)	EMCA03-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

* **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**

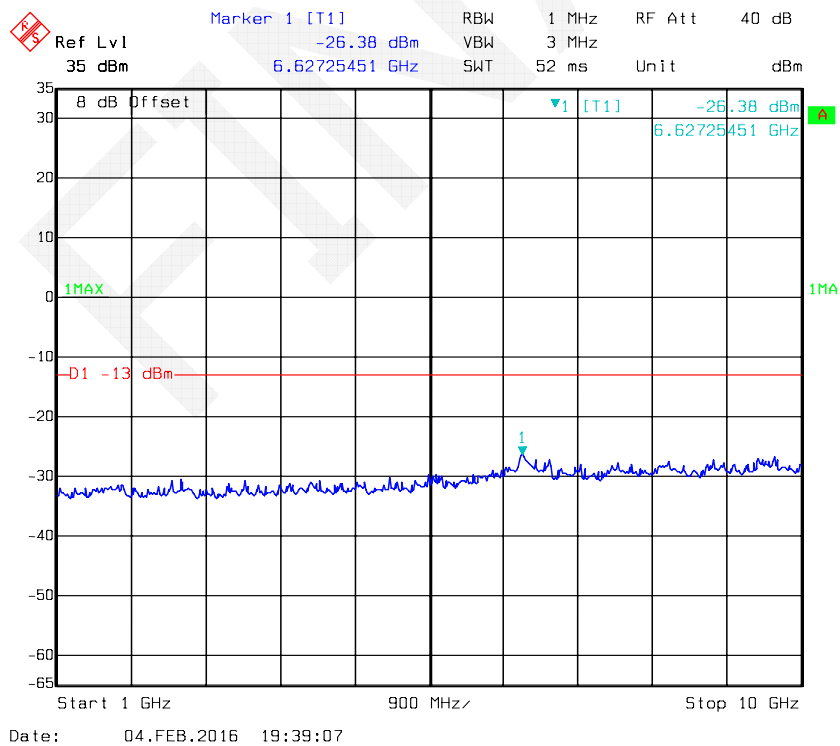
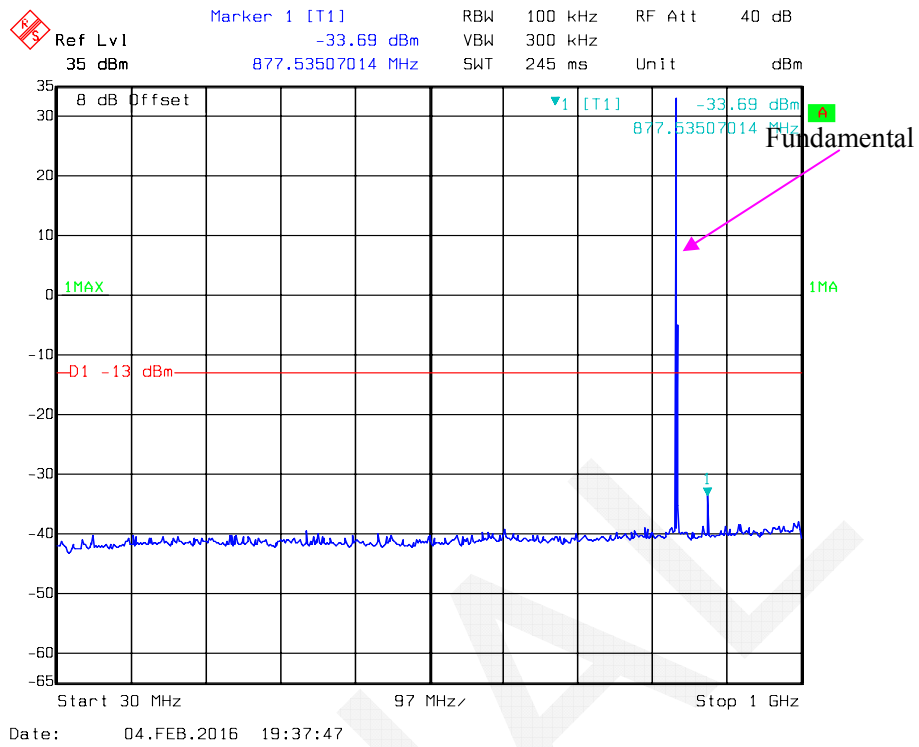
Temperature:	20.7°C
Relative Humidity:	48%
ATM Pressure:	101.6kPa

The testing was performed by Dean Liu from 2016-02-04 to 2016-02-24.

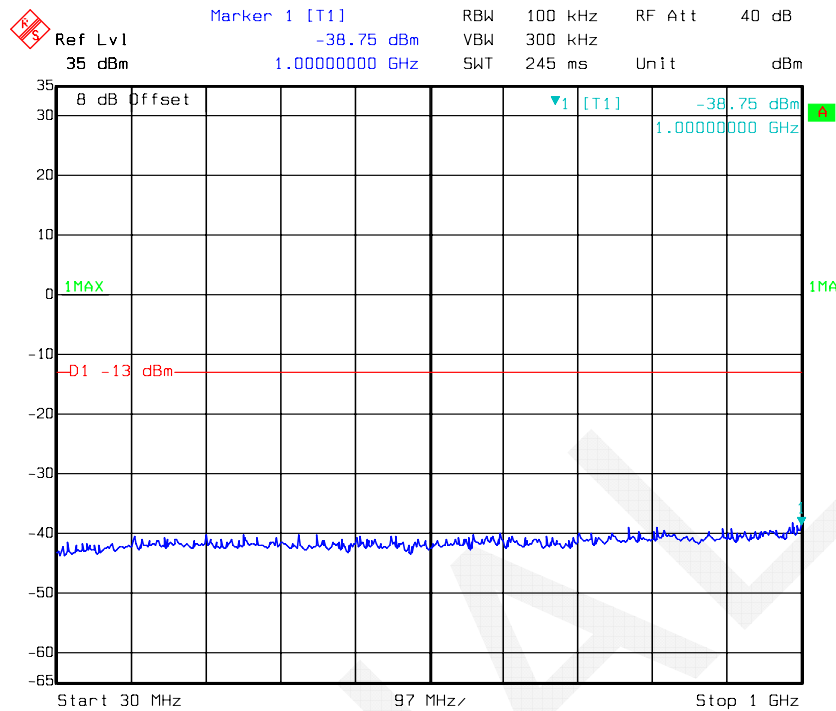
Please refer to the following plots.

FINAL

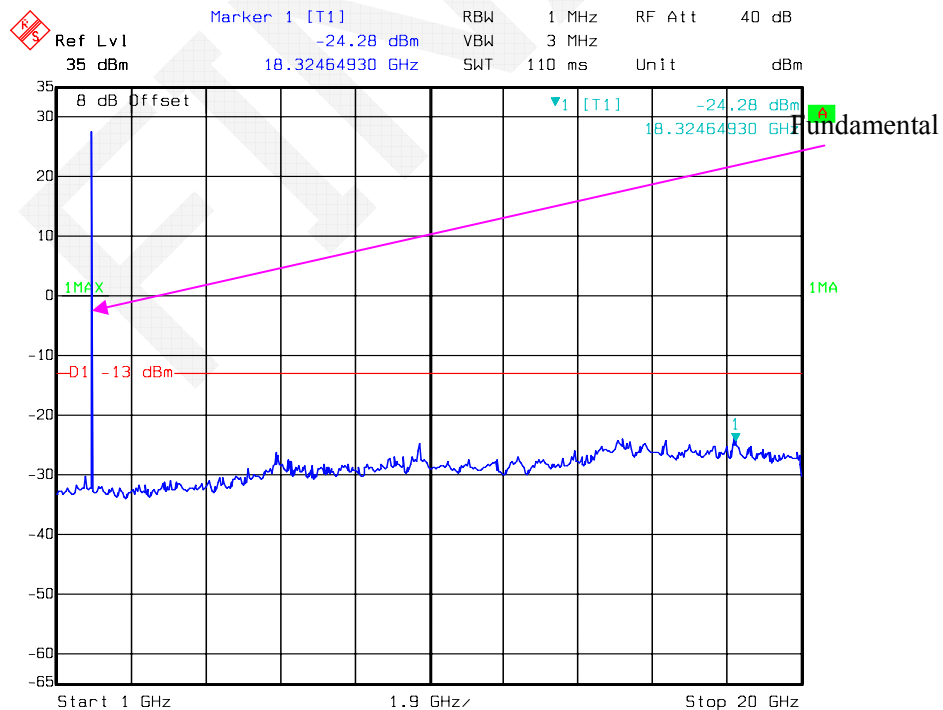
GSM850_Middle Channel



PCS 1900_ Middle Channel

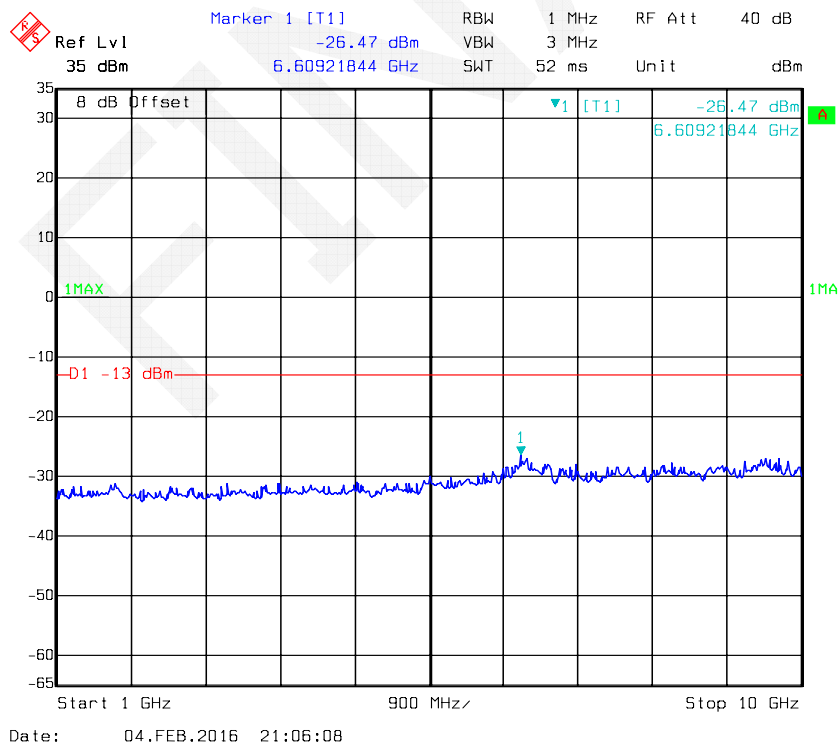
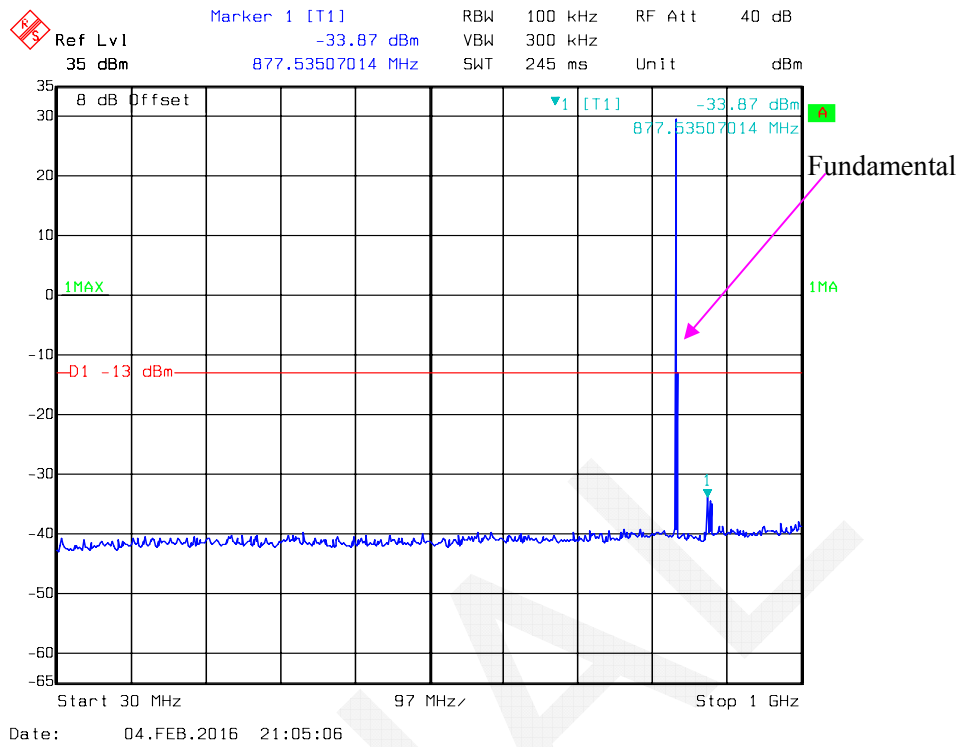


Date: 04.FEB.2016 21:20:08

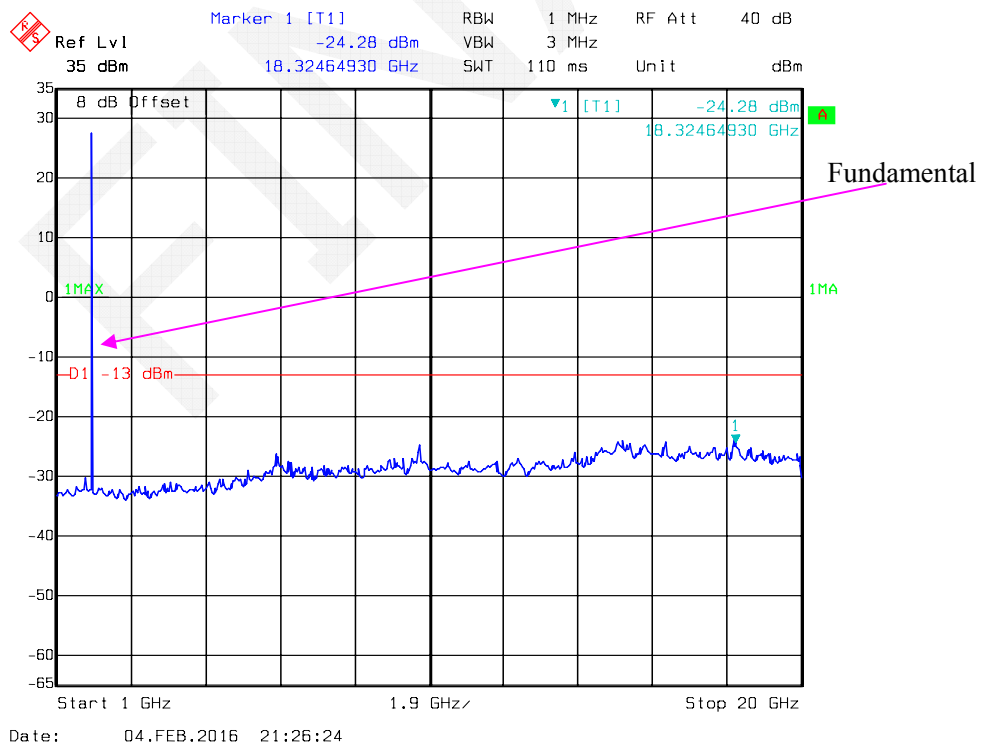
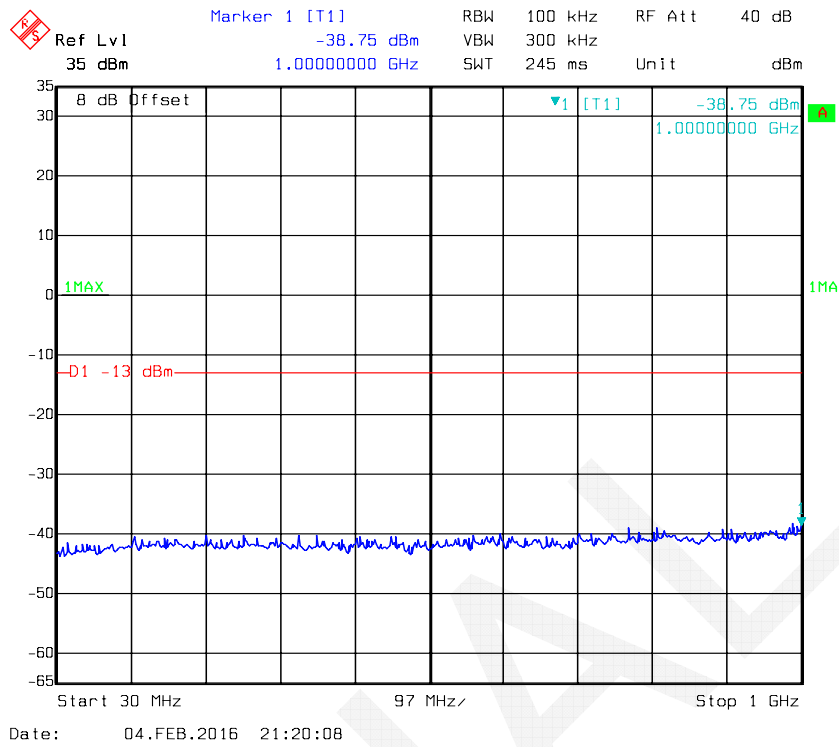


Date: 04.FEB.2016 21:26:24

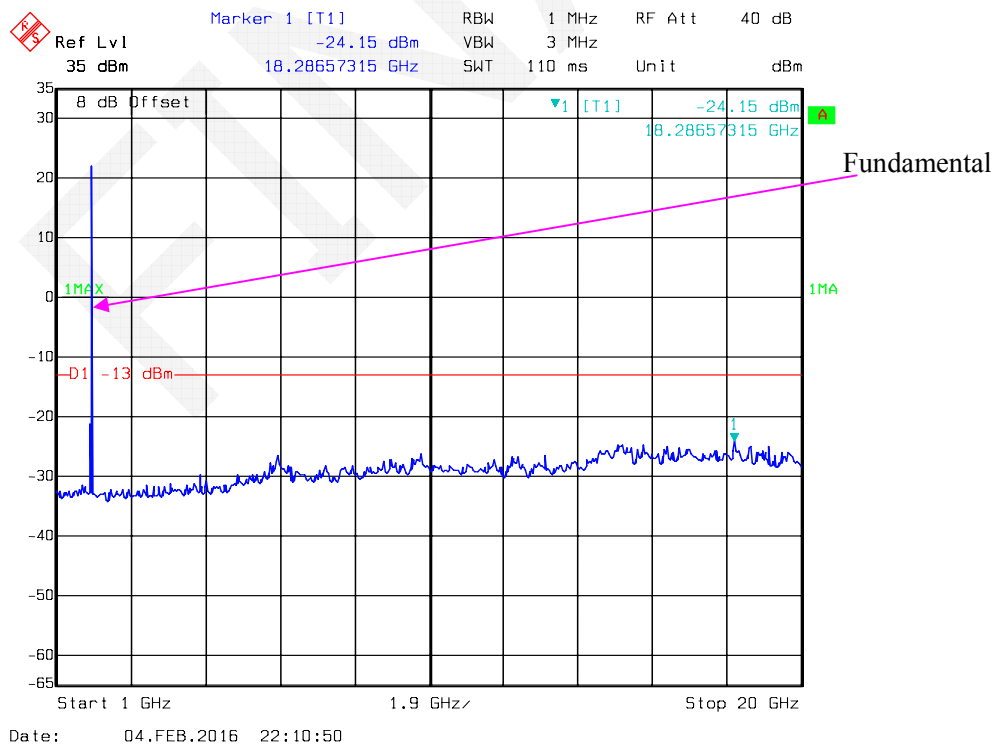
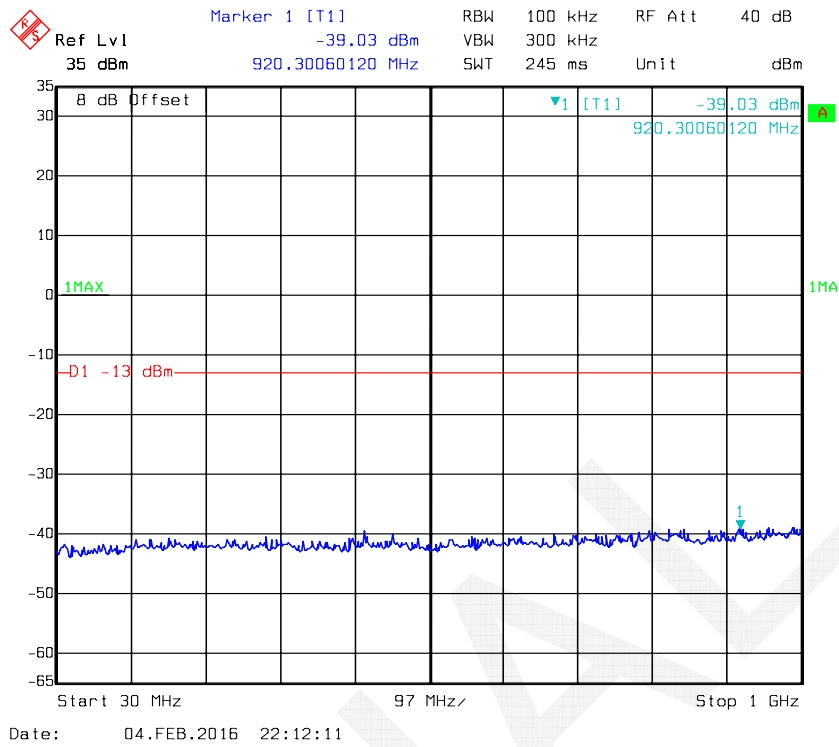
EDGE850_ Middle Channel



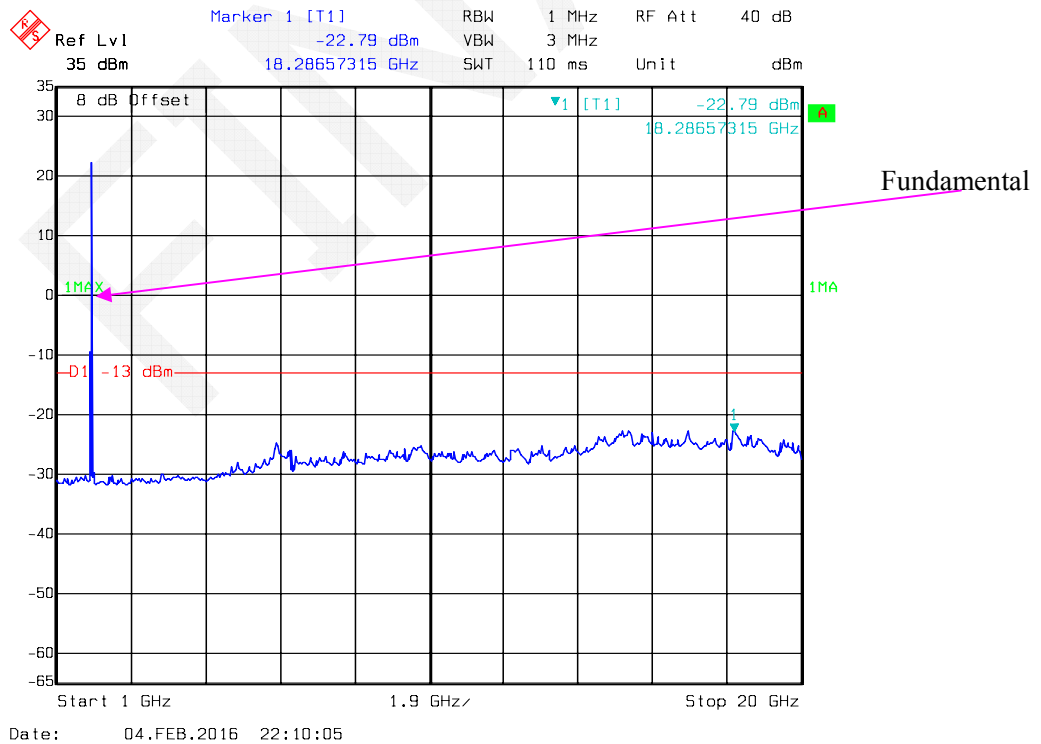
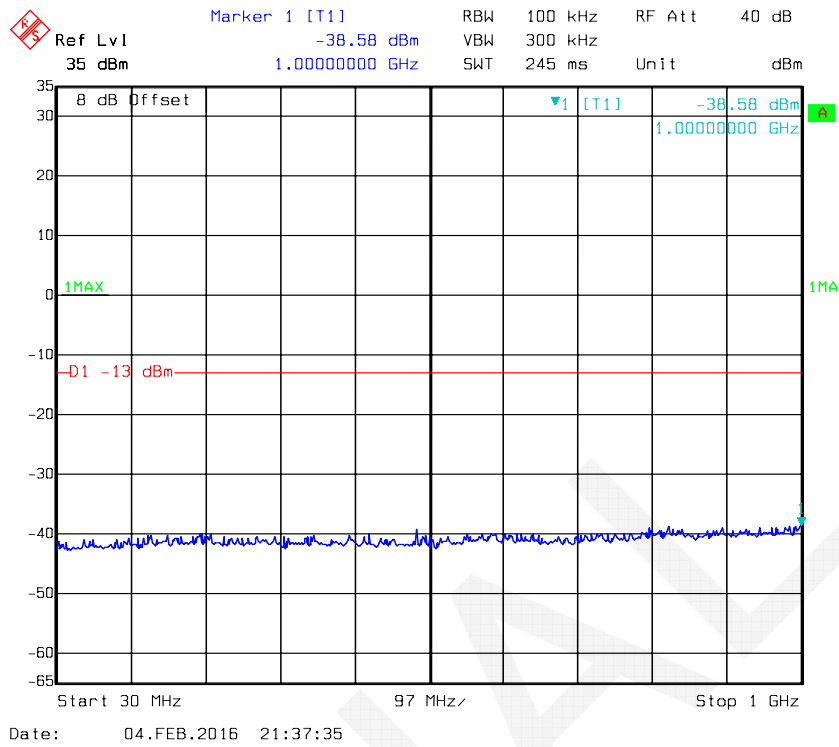
EDGE1900_ Middle Channel



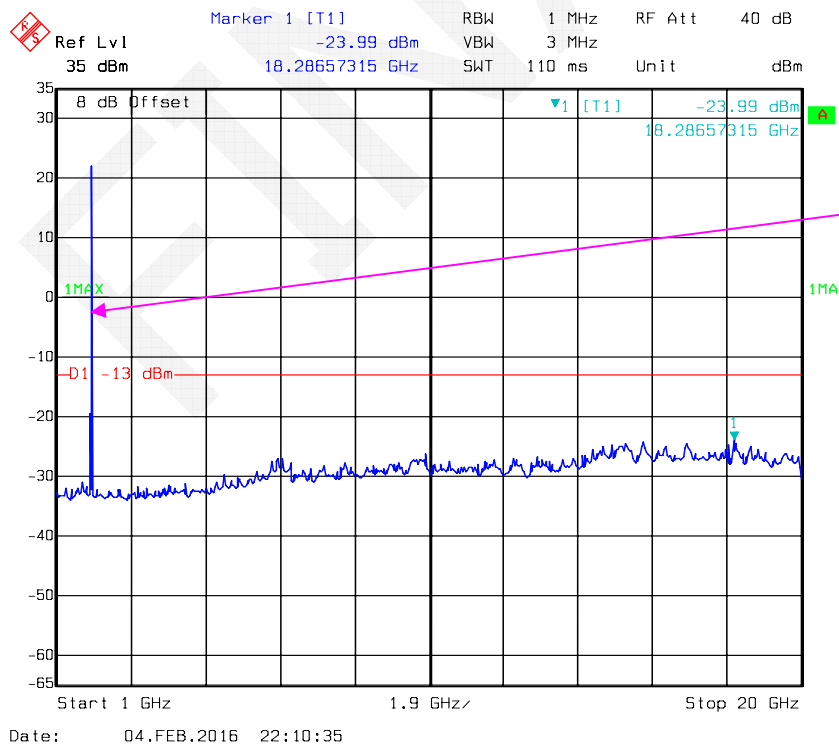
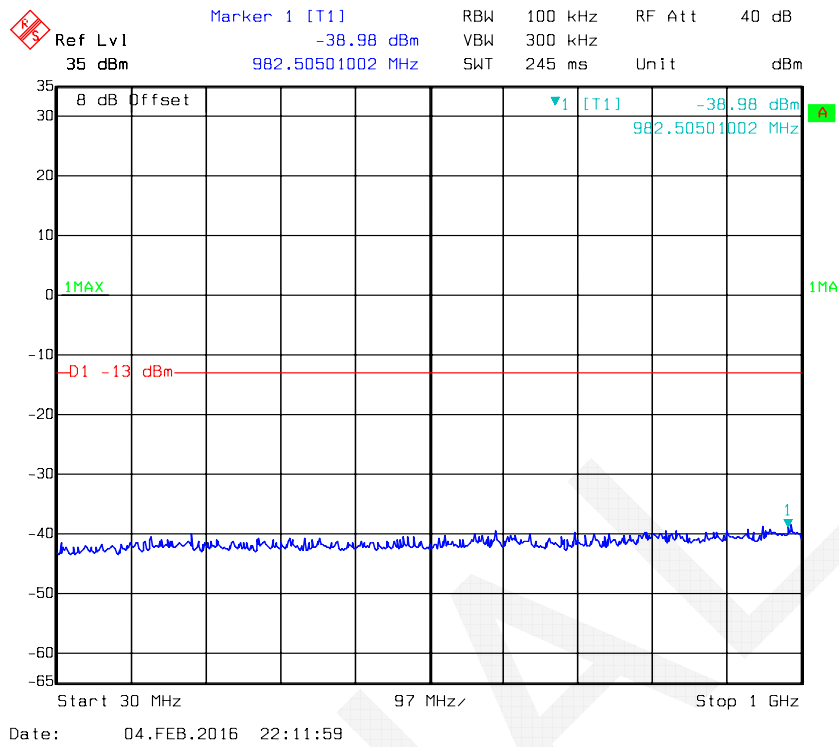
REL99 Band II_ Middle Channel



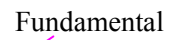
HSDPA Band II _Middle Channel



HSUPA Band II _ Middle Channel



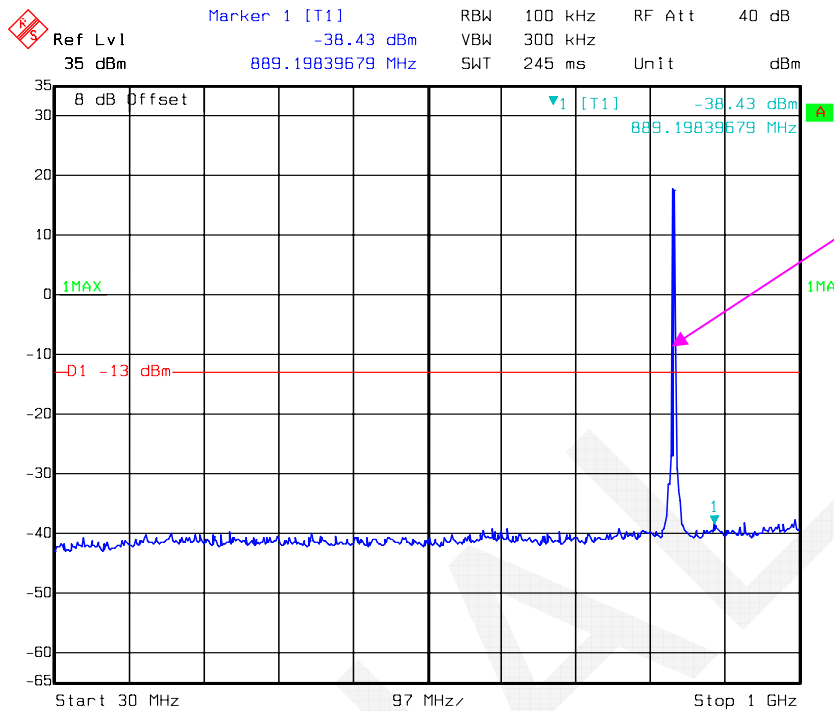
	Marker 1 [T1]	RBW	100 kHz	RF Att	40 dB
	Ref Lvl	-38.73 dBm	VBW	300 kHz	
	35 dBm	889.19839679 MHz	SWT	245 ms	Unit



REL99 Band V_Middle Channel

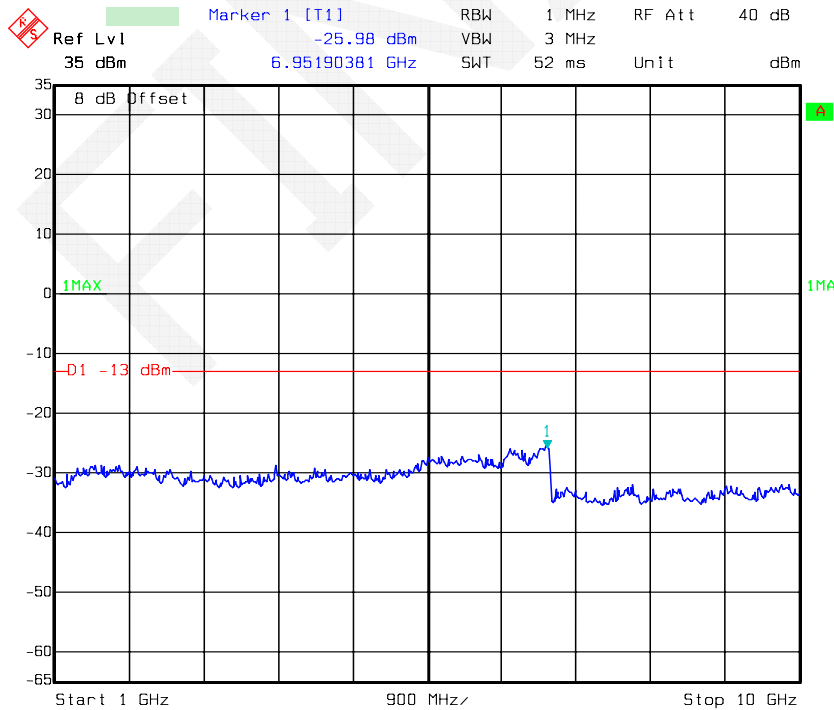


HSDPA Band V_ Middle Channel



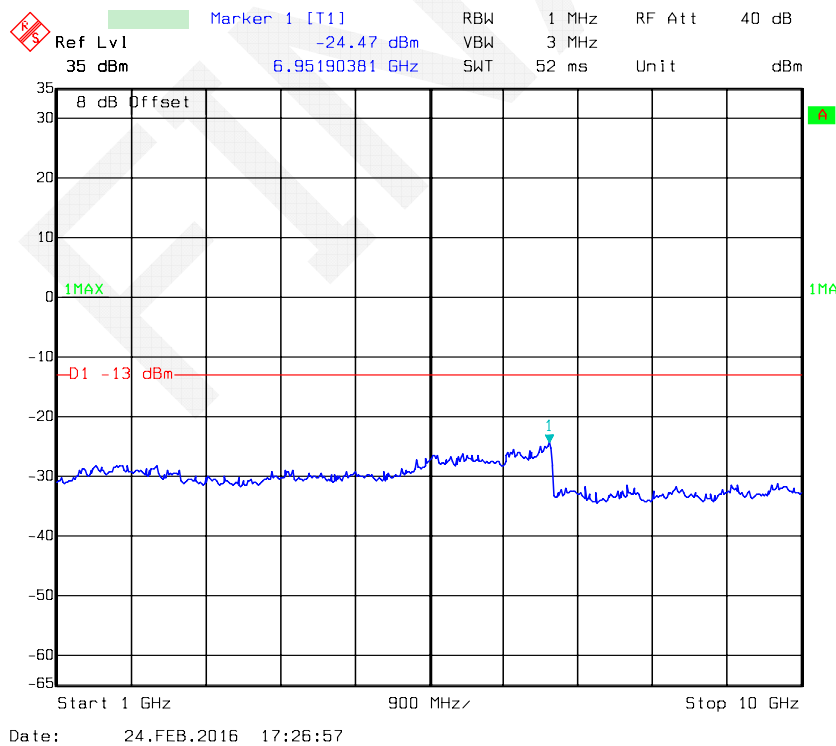
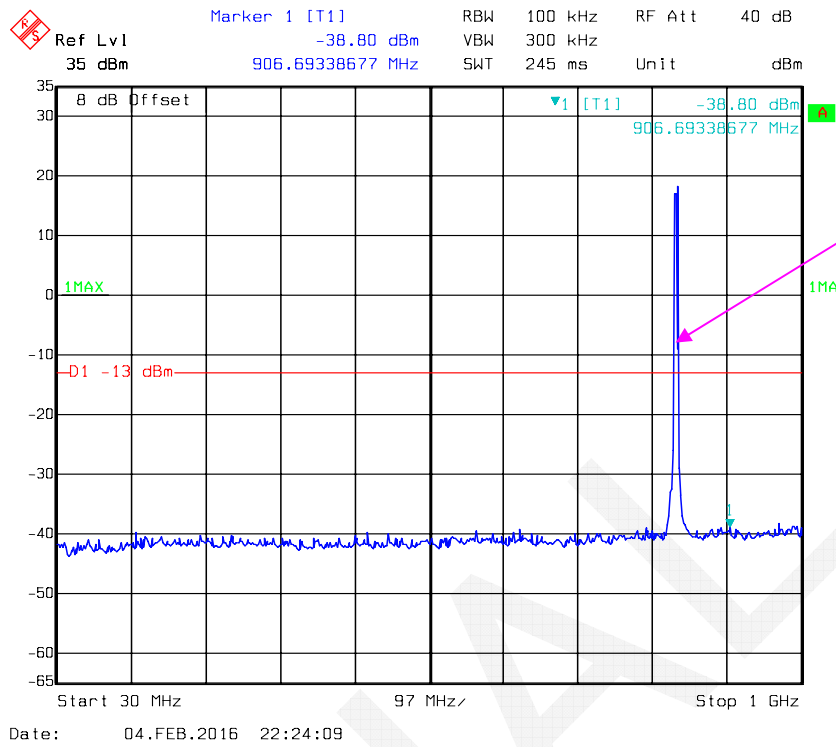
Date: 04.FEB.2016 22:23:40

HSDPA Band V_ Middle Channel



Date: 24.FEB.2016 17:28:30

HSUPA Band V_ Middle Channel



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 = $10 \lg(\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
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	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06

* **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**

Temperature:	20.7°C
Relative Humidity:	48%
ATM Pressure:	101.6kPa

The testing was performed by Dean Liu on 2016-02-05.

EUT Operation Mode: Transmitting

Cellular Band (PART 22H)**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)			
Frequency: 836.6 MHz								
1673.200	H	48.31	-52.8	10.6	1.5	-43.7	-13.0	30.7
1673.200	V	45.14	-56.2	10.6	1.5	-47.1	-13.0	34.1
2509.800	H	58.63	-39.4	13.1	2.8	-29.1	-13.0	16.1
2509.800	V	54.82	-42.3	13.1	2.8	-32.0	-13.0	19.0
209.700	H	33.96	-73.8	0.0	0.5	-74.3	-13.0	61.3
256.160	V	32.81	-72.9	0.0	0.5	-73.4	-13.0	60.4

WCDMA Band V (PART 22H)

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)			
Frequency: 836.6 MHz								
1673.200	H	37.54	-63.5	10.6	1.5	-54.4	-13.0	41.4
1673.200	V	37.81	-63.6	10.6	1.5	-54.5	-13.0	41.5
2509.800	H	47.04	-51	13.1	2.8	-40.7	-13.0	27.7
2509.800	V	47.48	-49.6	13.1	2.8	-39.3	-13.0	26.3
217.800	H	33.96	-73.9	0.0	0.5	-74.4	-13.0	61.4
270.500	V	32.54	-72.9	0.0	0.5	-73.4	-13.0	60.4

PCS Band (PART 24E)**30 MHz-20 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)			
Frequency: 1880 MHz								
3760.000	H	52.57	-41.7	13.8	2.9	-30.8	-13.0	17.8
3760.000	V	50.55	-42.5	13.8	2.9	-31.6	-13.0	18.6
5640.000	H	48.35	-43.3	14.0	2.1	-31.4	-13.0	18.4
5640.000	V	47.41	-44.3	14.0	2.1	-32.4	-13.0	19.4
232.800	H	33.97	-74	0.0	0.5	-74.5	-13.0	61.5

WCDMA Band II (PART 24E)

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)			
Frequency: 1880 MHz								
3760.000	H	38.37	-55.9	13.8	2.9	-45.0	-13.0	32.0
3760.000	V	41.92	-51.1	13.8	2.9	-40.2	-13.0	27.2
5640.000	H	50.09	-41.6	14.0	2.1	-29.7	-13.0	16.7
5640.000	V	53.41	-38.3	14.0	2.1	-26.4	-13.0	13.4
252.800	H	33.71	-74.4	0.0	0.5	-74.9	-13.0	61.9
238.300	V	32.97	-72.7	0.0	0.5	-73.2	-13.0	60.2

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

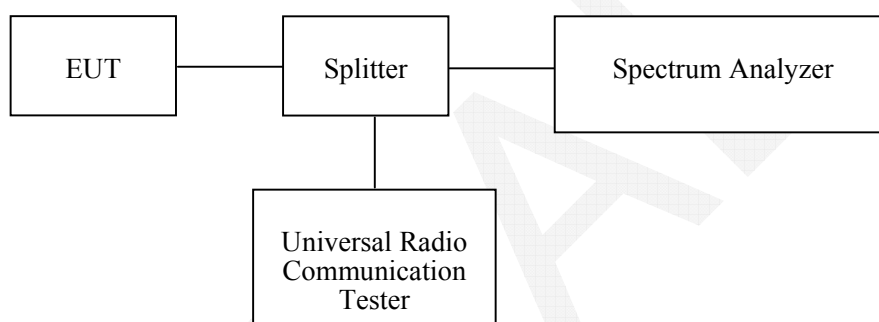
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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	2015-11-23	2016-11-22
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(3dB)	EMCA03-5RN	0E01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
N/A	Two-way Splitter	ODP-1-6-2S	0E0120142	2015-05-06	2016-05-06

* **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**

Temperature:	20.7°C
Relative Humidity:	48%
ATM Pressure:	101.6kPa

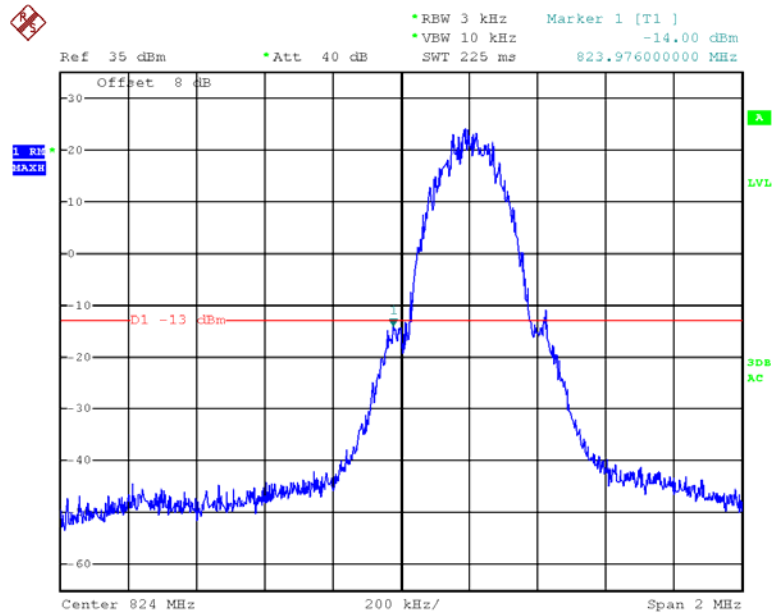
The testing was performed by Dean Liu on 2016-02-05..

Test Mode: Transmitting

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

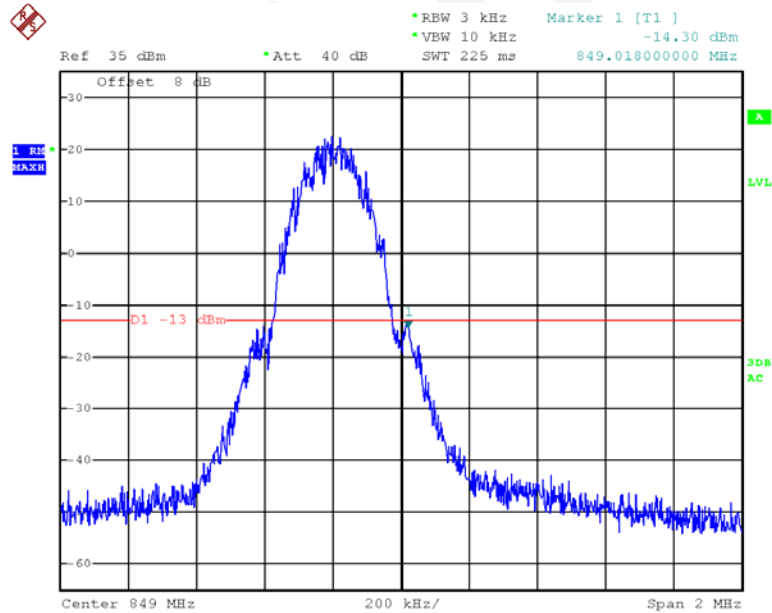
FINAL

GSM 850, Left Band Edge



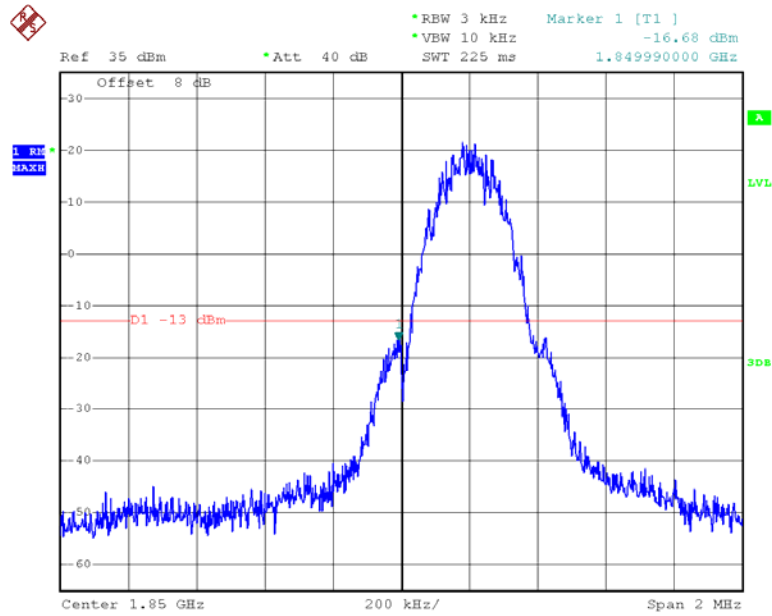
Date: 5.FEB.2016 00:41:56

GSM 850, Right Band Edge



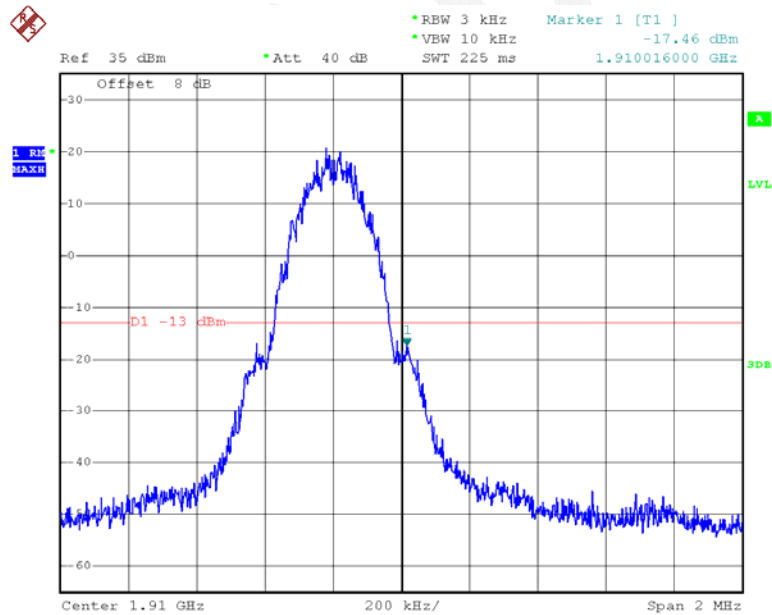
Date: 5.FEB.2016 00:52:08

PCS 1900, Left Band Edge



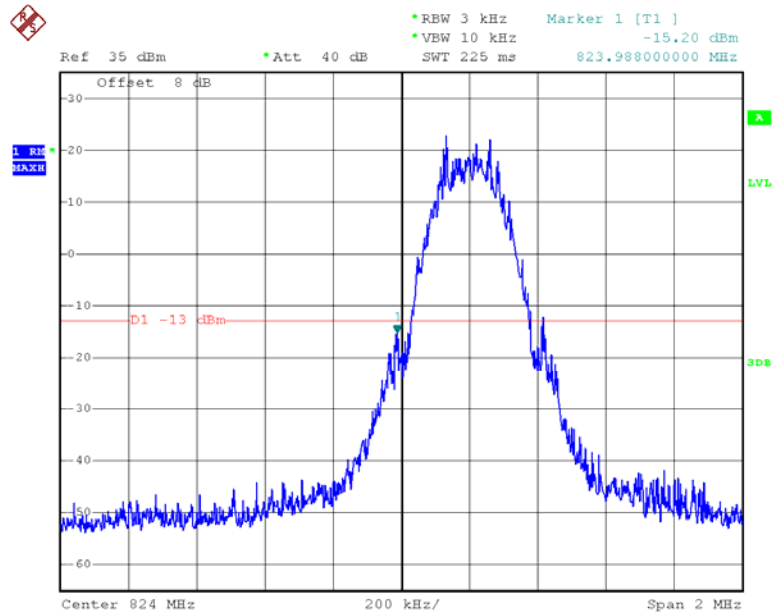
Date: 5.FEB.2016 11:02:56

PCS 1900, Right Band Edge



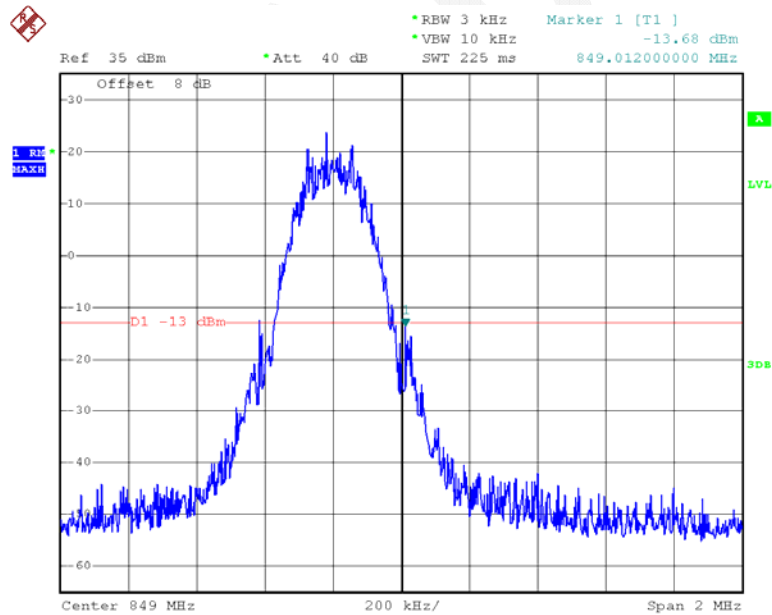
Date: 5.FEB.2016 11:03:56

EDGE850, Left Band Edge



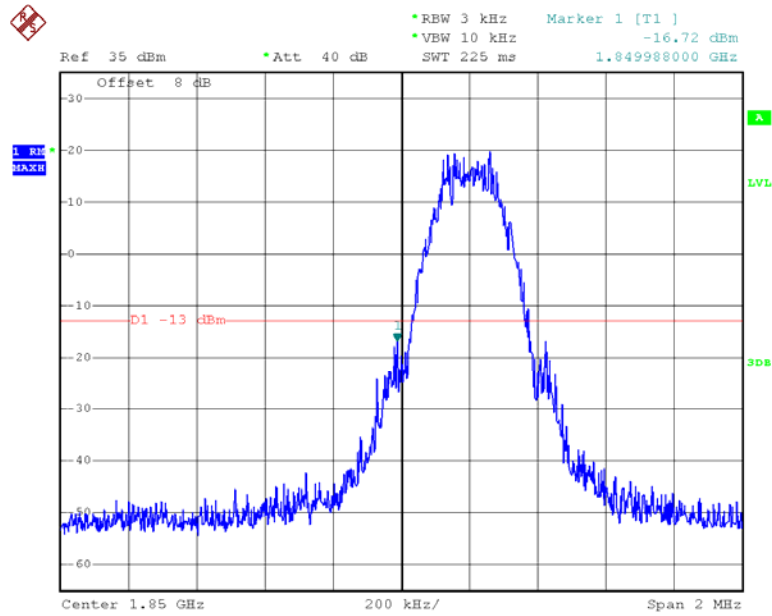
Date: 5.FEB.2016 10:58:45

EDGE850, Right Band Edge



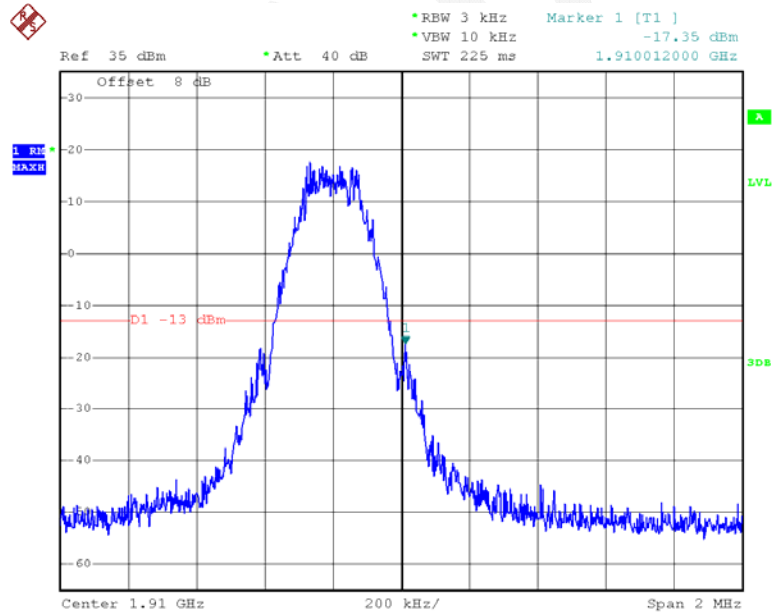
Date: 5.FEB.2016 11:01:14

EDGE 1900, Left Band Edge



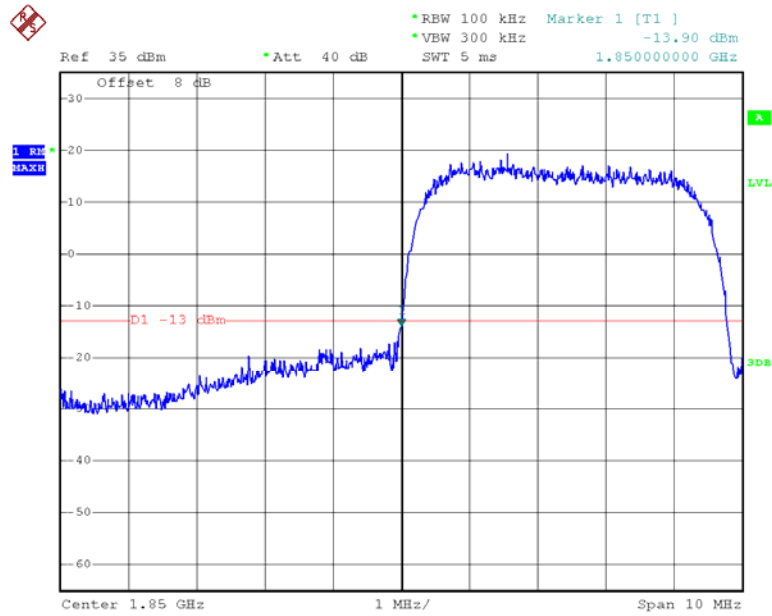
Date: 5.FEB.2016 11:05:57

EDGE 1900, Right Band Edge



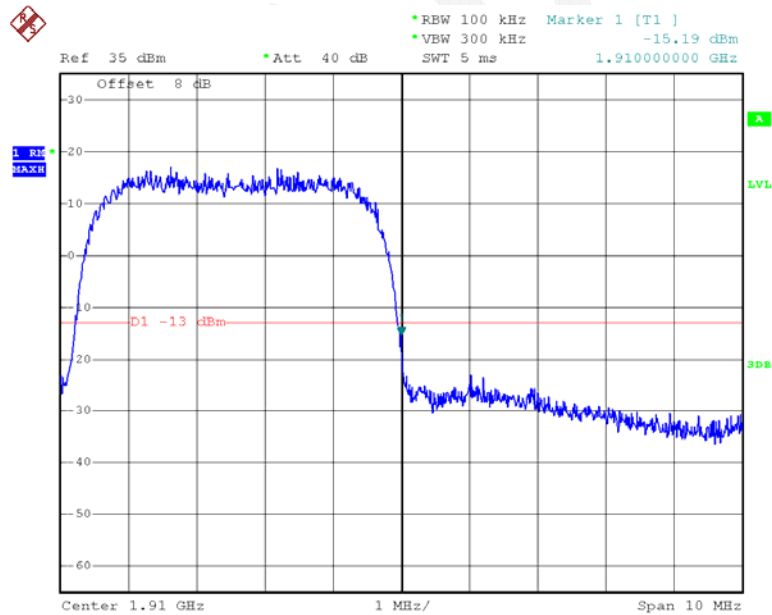
Date: 5.FEB.2016 11:07:15

REL99 Band II, Left Band Edge



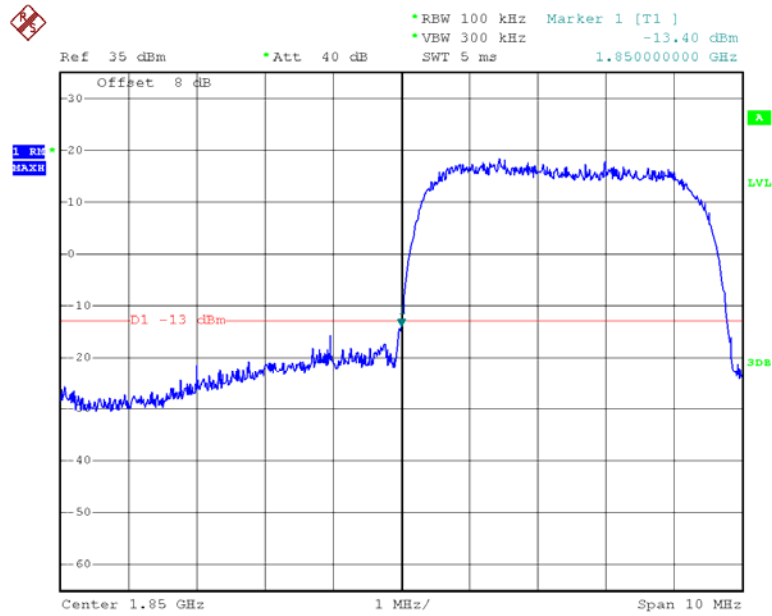
Date: 5.FEB.2016 11:10:04

REL99 Band II, Right Band Edge



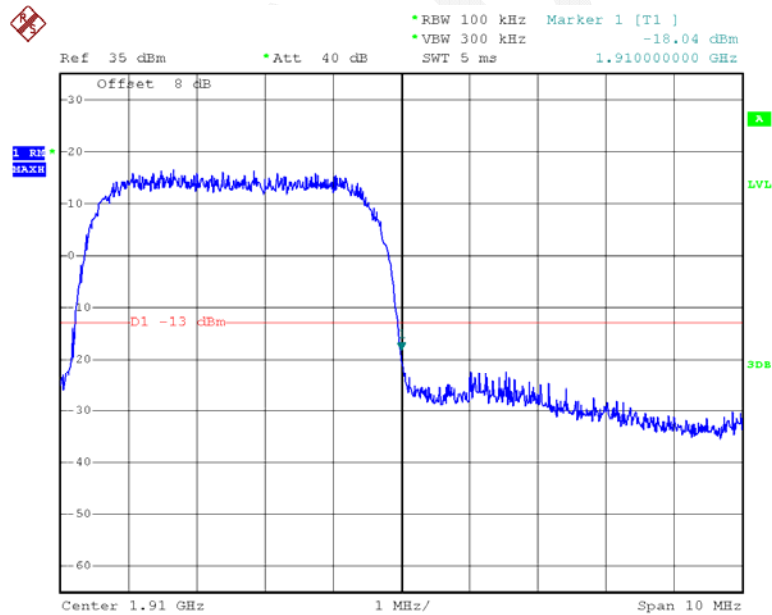
Date: 5.FEB.2016 11:11:04

HSDPA Band II, Left Band Edge



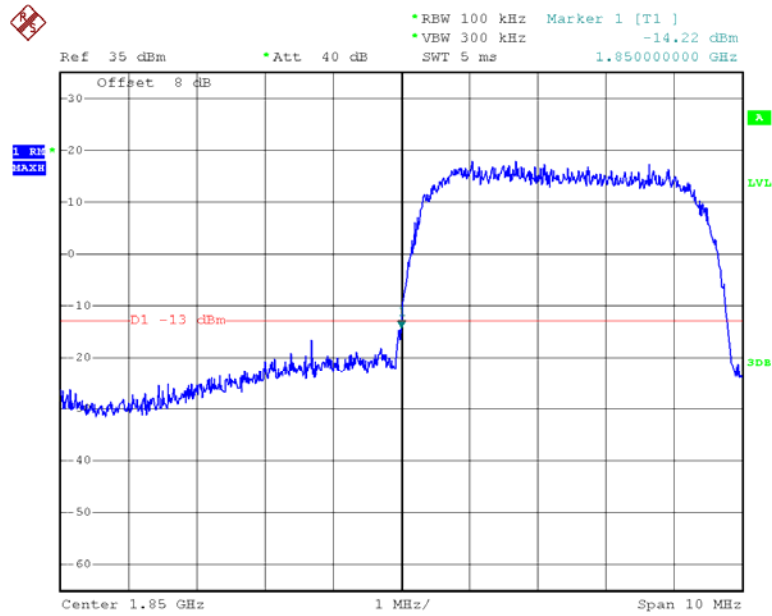
Date: 5.FEB.2016 11:09:39

HSDPA Band II, Right Band Edge



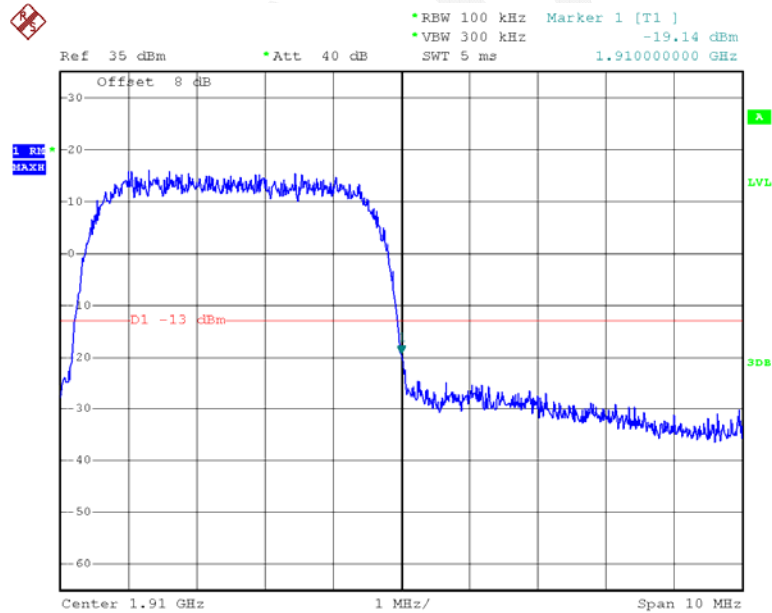
Date: 5.FEB.2016 11:10:43

HSUPA Band II, Left Band Edge



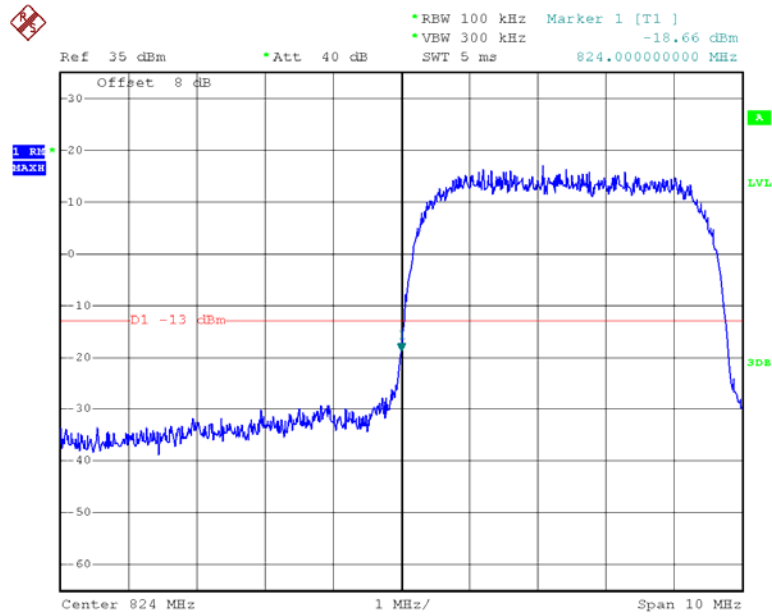
Date: 5.FEB.2016 11:09:51

HSUPA Band II, Right Band Edge



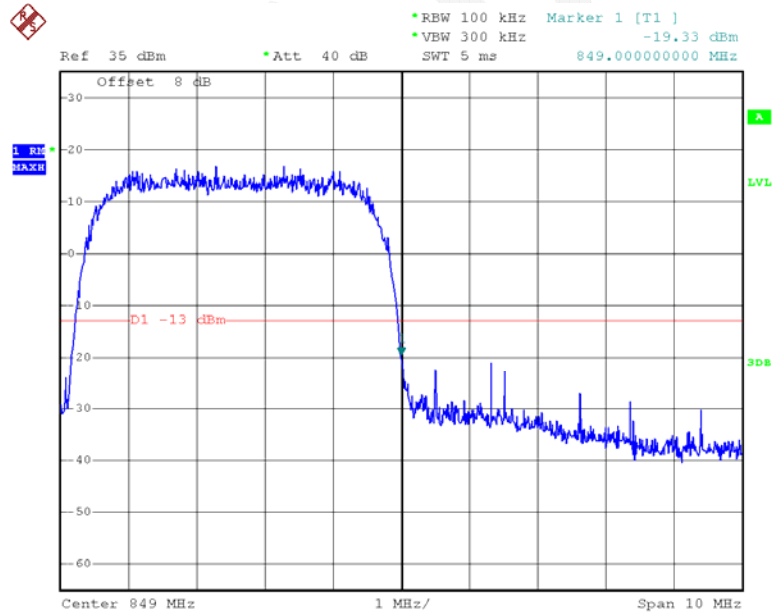
Date: 5.FEB.2016 11:10:48

REL99 Band V, Left Band Edge



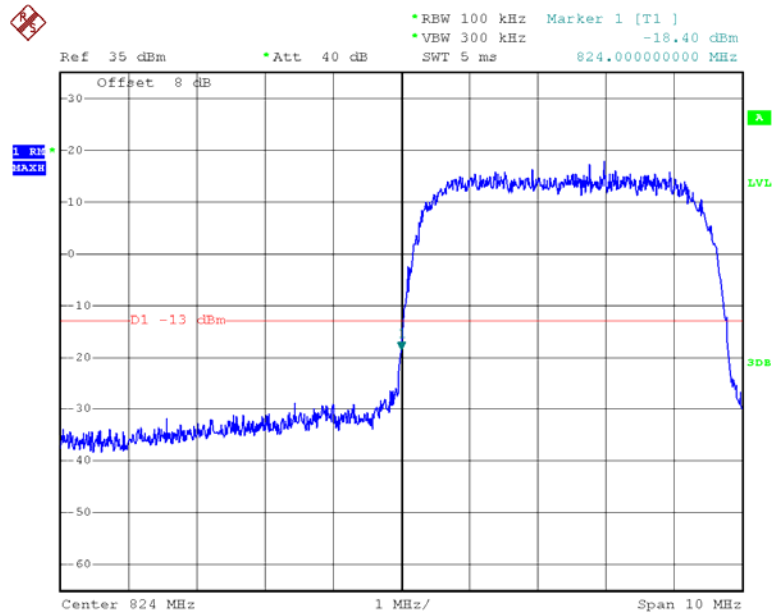
Date: 5.FEB.2016 11:13:41

REL99 Band V Right Band Edge



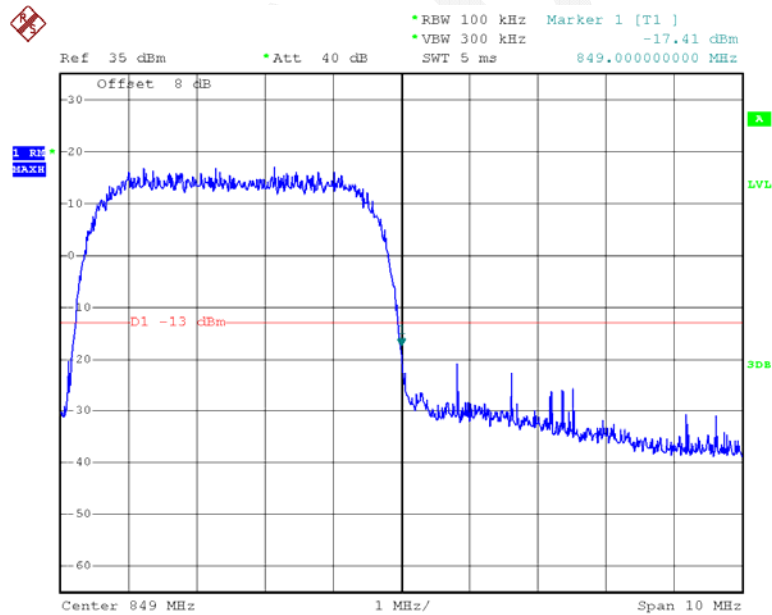
Date: 5.FEB.2016 11:14:44

HSDPA Band V, Left Band Edge



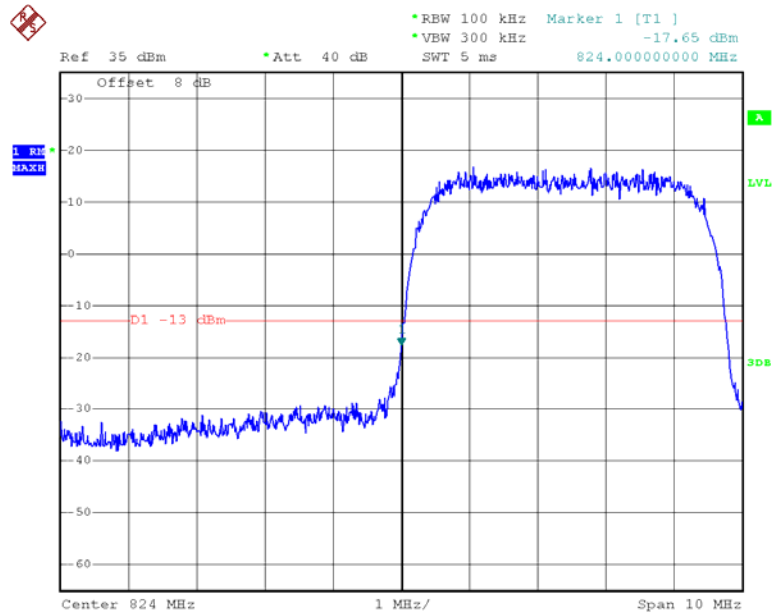
Date: 5.FEB.2016 11:13:27

HSDPA Band V, Right Band Edge



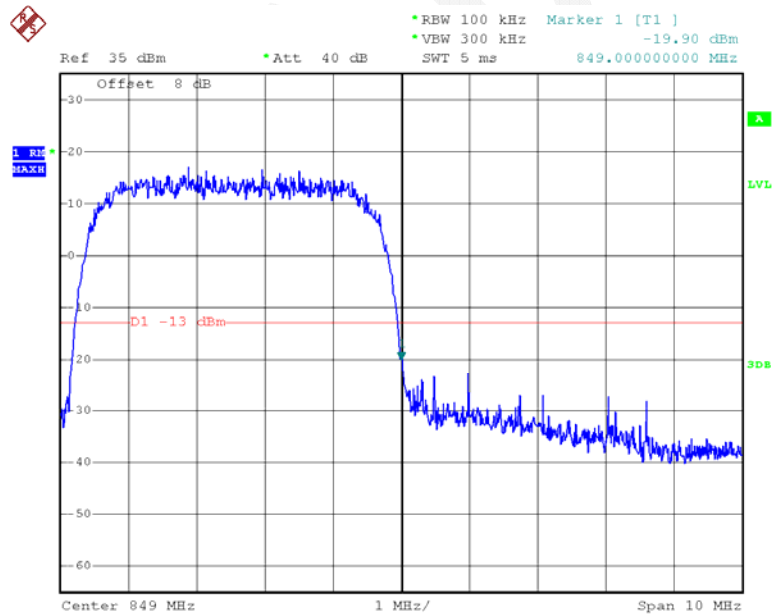
Date: 5.FEB.2016 11:14:33

HSUPA Band V, Left Band Edge



Date: 5.FEB.2016 11:13:33

HSUPA Band V, Right Band Edge



Date: 5.FEB.2016 11:14:38

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

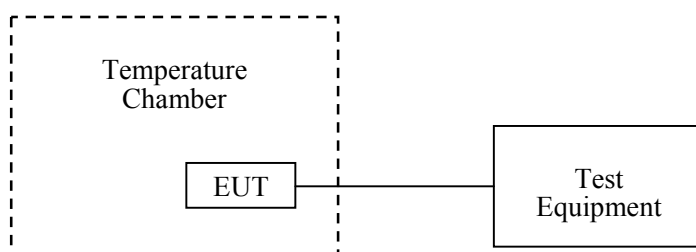
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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	2015-09-10	2016-09-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-07-28	2016-07-27
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(3 dB)	EMCA03-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-03	N/A	2015-05-06	2016-05-06
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10

* **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:	20.7°C
Relative Humidity:	48%
ATM Pressure:	101.6kPa

The testing was performed by Dean Liu on 2016-02-05.

Cellular Band (Part 22H)

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.7	3	0.004	2.5
-20		1	0.001	
-10		6	0.007	
0		3	0.004	
10		7	0.008	
20		0	0.000	
30		2	0.002	
40		2	0.002	
50		2	0.002	
25	3.5	6	0.007	
	4.2	3	0.004	

EDGE, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.7	8	0.010	2.5
-20		5	0.006	
-10		-1	-0.001	
0		-7	-0.008	
10		2	0.002	
20		4	0.005	
30		0	0.000	
40		-3	-0.004	
50		1	0.001	
25	3.5	-2	-0.002	
	4.2	-6	-0.007	

WCDMA Band V: Re199

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.7	-3	-0.004	2.5
-20		4	0.005	
-10		4	0.005	
0		1	0.001	
10		4	0.005	
20		-2	-0.002	
30		4	0.005	
40		-2	-0.002	
50		4	0.005	
25	3.5	4	0.005	
	4.2	3	0.004	

WCDMA Band V: HSDPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.7	3	0.004	2.5
-20		5	0.006	
-10		-4	-0.005	
0		6	0.007	
10		1	0.001	
20		-1	-0.001	
30		3	0.004	
40		0	0.000	
50		-4	-0.005	
25	3.5	9	0.011	
	4.2	-3	-0.004	

WCDMA Band V: HSUPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.7	2	0.002	2.5
-20		4	0.005	
-10		0	0.000	
0		5	0.006	
10		-3	-0.004	
20		5	0.006	
30		-2	-0.002	
40		5	0.006	
50		0	0.000	
25	3.5	5	0.006	
	4.2	-4	-0.005	

PCS Band (Part 24E)

GMSK, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.7	6	0.003	Compliance
-20		8	0.004	
-10		7	0.004	
0		12	0.006	
10		11	0.006	
20		3	0.002	
30		2	0.001	
40		11	0.006	
50		8	0.004	
25	3.5	4	0.002	
	4.2	0	0.000	

EDGE, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.7	4	0.002	Compliance
-20		-2	-0.001	
-10		5	0.003	
0		4	0.002	
10		-2	-0.001	
20		-5	-0.003	
30		0	0.000	
40		6	0.003	
50		-1	-0.001	
25	3.5	0	0.000	
	4.2	4	0.002	

WCDMA Band II: Re199

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.7	3	0.002	Compliance
-20		-2	-0.001	
-10		4	0.002	
0		-3	-0.002	
10		-2	-0.001	
20		-3	-0.002	
30		4	0.002	
40		-3	-0.002	
50		-3	-0.002	
25	3.5	-3	-0.002	
	4.2	1	0.001	

WCDMA Band II: HSDPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.7	-2	-0.001	Compliance
-20		-3	-0.002	
-10		1	0.001	
0		-2	-0.001	
10		-4	-0.002	
20		-2	-0.001	
30		4	0.002	
40		-2	-0.001	
50		0	0.000	
25	3.5	-2	-0.001	
	4.2	-1	-0.001	

WCDMA Band II: HSUPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.7	-4	-0.002	Compliance
-20		-3	-0.002	
-10		-3	-0.002	
0		1	0.001	
10		-4	-0.002	
20		-1	-0.001	
30		-4	-0.002	
40		1	0.001	
50		4	0.002	
25	3.5	4	0.002	
	4.2	2	0.001	

DECLARATION LETTER

Swagtek

ADD: 10205 NW 19th Street, STE101, Miami, FL, 33172, USA

Tel: 305 439 9908

Fax: 305 471 9611

DECLARATION OF SIMILARITY

Date: 2016-2-26

Dear Sir or Madam:

We, Swagtek, hereby declare that product: 3G Tablet, model: T2P is electrically identical with the models: T2, T2M, T7RG, Vista, Motion and UT7002 which was tested by BACL with the same electromagnetic emissions and electromagnetic compatibility characteristics. The results of which are featured in BACL projects: RDG160128004, RDG160128004-20.

A description of the difference between the six models and those that are declared similar are as follows:

They are the same product, and just have the different model name, the rest are the same.

Please contact me should there be need for any additional clarification or information.

Best Regards,



Charles Cheng
manager

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