EMTEK
Access to the World

FCC

CERTIFICATION TEST REPORT

For

Rugged Tablet

MODEL No.: xTablet T8650

FCC ID: O86T8650

Trademark: MobileDemand

REPORT NO.: ES160623027E8

ISSUE DATE: July 27, 2016

Prepared for

MobileDemand, L.C.

1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, United States 52233

Prepared by

EMTEK (SHENZHEN) CO., LTD.

Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China
TEL: 86-755-26954280
FAX: 86-755-26954282

Table of Contents

1 TEST RESULT CERTIFICATION

Applicant:	MobileDemand, L.C. 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, United States 52233
Manufacturer:	MSI ELECTRONICS (KUNSHAN) CO LTD. No. 88 E QUANJIN RD KUNSHAN JIANGSU, CHINA
Product Description:	Rugged Tablet
Trademark:	MobileDemand
Model Number:	xTablet T8650
File Number:	ES160623027E8
Date of Test:	June 24, 2016 to July 27, 2016

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 22, Subpart H FCC 47 CFR Part 24, Subpart E	**PASS**

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26 (2015) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, 22(H), 24(E).

The test results of this report relate only to the tested sample identified in this report

Date of Test : June 24, 2016 to July 27, 2016

Prepared by : Joanna Jiao /Editor

Reviewer : Joe Xia /Supervisor

Approve & Authorized Signer : Lisa Wang/Manager

2 EUT TECHNICAL DESCRIPTION

Characteristics	Description	
Device Type	CDMA2000	
Operation Band:	BC0, BC1	
Supported Type:	CDMA2000 1xRTT, CDMA2000 1xEv-DO(Rel.0, Rel.A)	
Modulation:	O-QPSK, H-PSK	
Operating Frequency Range(s):	TX 824 to 849MHz /RX 869 to 894MHz for BC0 TX 1850 to 1910MHz /RX 1930 to 1990MHz for BC1	
Supported Channel Bandwidth:	1.25MHz	
Transmit Power Max:	24.70dBm for BC0 26.70dBm for BC1	
TX and RX Antenna:	TX & RX	1
	TX-only	0
	RX-only	0
Antenna Type	FPC antenna	
Antenna Gain	2.48dBi for BC0 2.34dBi for BC1	
Power supply	☒DC supply: ☒3.7V internal rechargeable lithium battery ☒DC 19V from adapter	
	☒Adapter: Model: A12-065N2A Rev: 02 AC Input: 100-240V~1.7A 50-60Hz DC Output: 19v/3.42A 65W	

Note: *for more details, please refer to the User's manual of the EUT.*

3 SUMMARY OF TEST RESULT

FCC Rule	IC Rule	**Test Parameter**	**Verdict**	**Remark**
2.1046	RSS-132, 5.4 RSS-133, 6.4	RF Power Output	PASS	
22.913, 24.232	RSS-132, 5.4 RSS-133, 6.4	Equivalent (Isotropic) Radiated Power	PASS	
2.1047	RSS-132, 5.2 RSS-133, 6.2	Modulation Characteristics	PASS	
2.1049	RSS-Gen, 6.6	Occupied Bandwidth	PASS	
2.1051, 22.917, 24.238	RSS-132, 5.5 RSS-133, 6.5	Out of Band Emissions at Antenna Terminals	PASS	
		Band Edge Emission	PASS	
2.1053, 22.917, 24.238	RSS-132, 5.5 RSS-133, 6.5	Field Strength of Spurious Radiation	PASS	
2.1055, 22.355, 24.235	RSS-132, 5.3 RSS-133, 6.3	Frequency Stability versus Temperature	PASS	
		Frequency Stability versus Voltage	PASS	
24.232		Peak to Average Ratio	PASS	
NOTE1: N/A (Not Applicable)				

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: O86T8650 filing to comply with FCC 47 CFR Part 2, 22(H), 24(E) and RSS-Gen, RSS-132, RSS-133.
The system is compliance with Subpart B is authorized under a DOC procedure

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 22, Subpart H
FCC 47 CFR Part 24, Subpart E
KDB971168 D01: v02r02
ANSI/TIA-603-D-2010
ANSI C63.26:2015

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
EMI Test Receiver	R & S	ESU	1302.6005.26	05/16/2016
Pre-Amplifier	HP	8447D	2944A07999	05/16/2016
Bilog Antenna	Schwarzbeck	VULB9163	142	05/16/2016
Loop Antenna	ARA	PLA-1030/B	1029	05/16/2016
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/16/2016
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/16/2016
Cable	Schwarzbeck	AK9513	ACRX1	05/16/2016
Cable	Rosenberger	N/A	FP2RX2	05/16/2016
Cable	Schwarzbeck	AK9513	CRPX1	05/16/2016
Cable	Schwarzbeck	AK9513	CRRX2	05/16/2016
Cable	H+B	0.5M SF104-26.5	289147/4	05/16/2016
Cable	H+B	3M SF104-26.5	295838/4	05/16/2016
Cable	H+B	6M SF104-26.5	295840/4	05/16/2016

4.2.2 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
Spectrum Analyzer	Agilent	E4407B	88156318	05/16/2016
Power meter	Anritsu	ML2495A	0824006	05/16/2016
Power sensor	Anritsu	MA2411B	0738172	05/16/2016
Spectrum Analyzer	Agilent	N9010A	My53470879	05/16/2016
Spectrum Analyzer	R & S	FSV30	103040	05/16/2016
Spectrum Analyzer	R & S	FSV40	132.1-3008K39-100967-AP	05/16/2016
Universal Radio Communication	R&S	CMW500	1201.0002K50-140822zk	05/16/2016
Universal Radio Communication	R&S	CMU200	111226	05/16/2016
Power Splitter	MInI-Clrcuits	ZFRSC-183-S+	S F808201417	05/16/2016
Attenuator	Weinschel Associates	WA14	18-10-12	05/16/2016
Temp. / Humidity Chamber	Kingson	THS-M1	242	05/16/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition. The CMU200 and CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

During all testing, EUT is in link mode with base station emulator at maximum power level.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

- Test Mode and system config

CDMA2000 1xRTT Config

Function:	Signal GEN > CDMA2000 > Signaling	
	Config:	
	RF Output(TX) >	
		External Attenuation > 1dB
	RF Frequency >	
		External Attenuation > 1dB
	RF Frequency >	
		Select band and channel
	RF Power >	CDMA Power > -70dBm
		Expected Power Mode > Max Power
	Physical Layer >	Select Service Option and Radio Config
	Reverse Power Control >	
		All Up
	Network >	
		System Parameters > SID > 1
		Network Identity > NID > 65535
	Signal ON	

CDMA2000 1xEv-DO(Rel.0) Config

Function:	Signal GEN > 1xEv-DO > Signaling Config:	
	RF Output(TX) >	External Attenuation > 1dB
	RF Frequency >	External Attenuation > 1dB
	RF Frequency >	Select band and channel
	RF Power >	CDMA Power > -70dBm Expected Power Mode > Max Power
	Reverse Power Control >	All Up
	Layer	Application > Select Test Mode Release 0 Setting FTAP Config > DRC > 307.2Kbps RTAP Config > Data Rate > 153.6Kbps
	Signal ON	

CDMA2000 1xEv-DO(Rel.A) Config

Function:	Signal GEN > 1xEv-DO > Signaling Config:	
	RF Output(TX) >	External Attenuation > 1dB
	RF Frequency >	External Attenuation > 1dB
	RF Frequency >	Select band and channel
	RF Power >	CDMA Power > -70dBm Expected Power Mode > Max Power
	Reverse Power Control >	All Up
	Layer	Application > Select Test Mode Release A Setting FETAP Config > DRC > Type 4, Rate 38.4kbit/s, Slots 16 RETAP Config > Packet Size > 4096Bit
	Signal ON	

- Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Ambient	VL	2.97V
	VN	3.30V
	VH	3.63V
NOTE: VL= Lower Extreme Test Voltage VN= Nominal Voltage VH= Upper Extreme Test Voltage TN= Normal Temperature		

- Test Channel and Frequency

Test Mode	RF Channel		
	Low (L)	Middle (M)	High (H)
BC0	Channel 1013	Channel 824.7	Channel 777
	824.7	836.52	848.31
BC1	Channel 25	Channel 600	Channel 1175
	1851.25	1880	1908.75

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.26 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description		
EMC Lab.	:	Accredited by CNAS, 2013.10.29 The certificate is valid until 2016.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L2291. Accredited by TUV Rheinland Shenzhen 2015.4 The Laboratory has been assessed according to the requirements ISO/IEC 17025. Accredited by FCC, April 17, 2013 The Certificate Registration Number is 709623. Accredited by FCC, July 24, 2013 The Certificate Registration Number is 406365. Accredited by Industry Canada, November 29, 2012 The Certificate Registration Number is 4480A.
Name of Firm	:	EMTEK (SHENZHEN) CO., LTD.
Site Location	:	Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

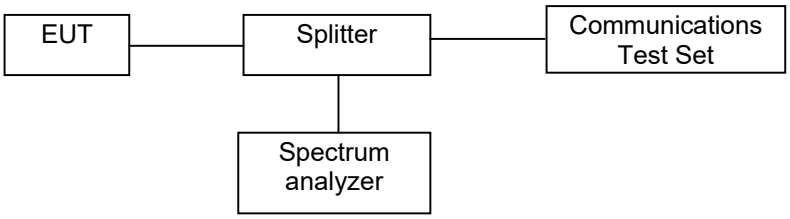
Parameter	Uncertainty
Radio Frequency	±1x10^-5
RF Power Output	±1.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5℃
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%

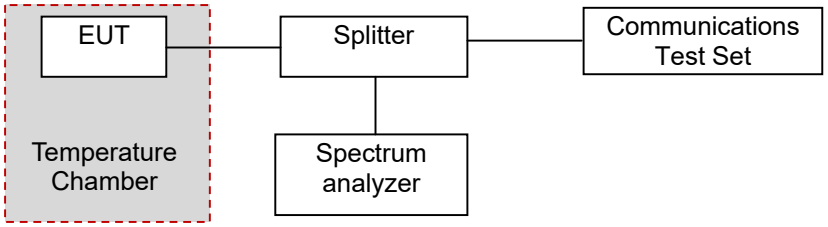
7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth v2.0 /v2.1/v3.0 component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2



7.3 RADIO FREQUENCY TEST SETUP 3

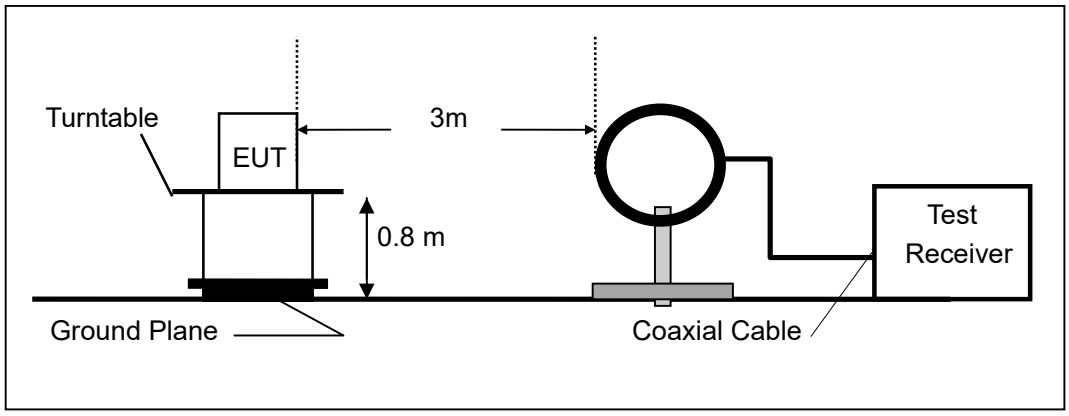
The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.26. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.26-2015 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz：
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

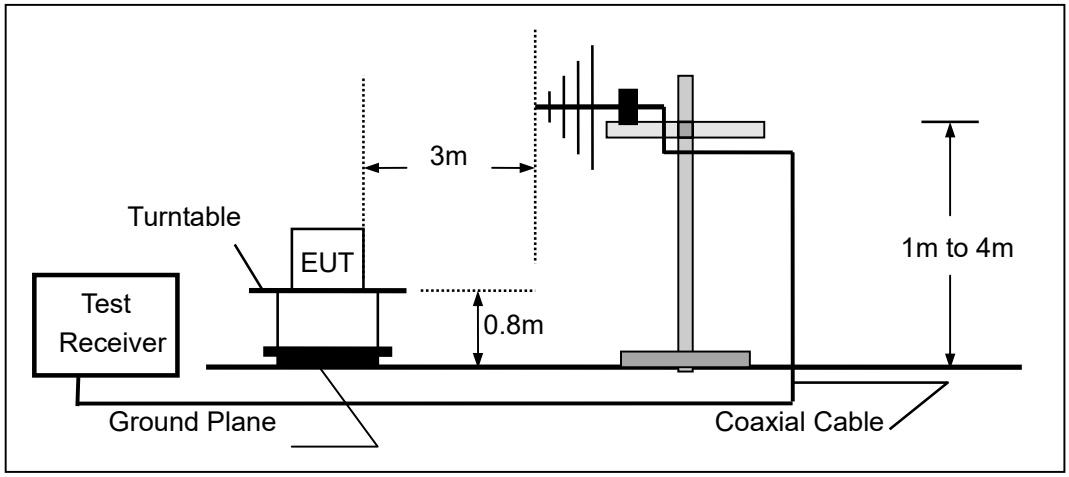
Above 30MHz：
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)
The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

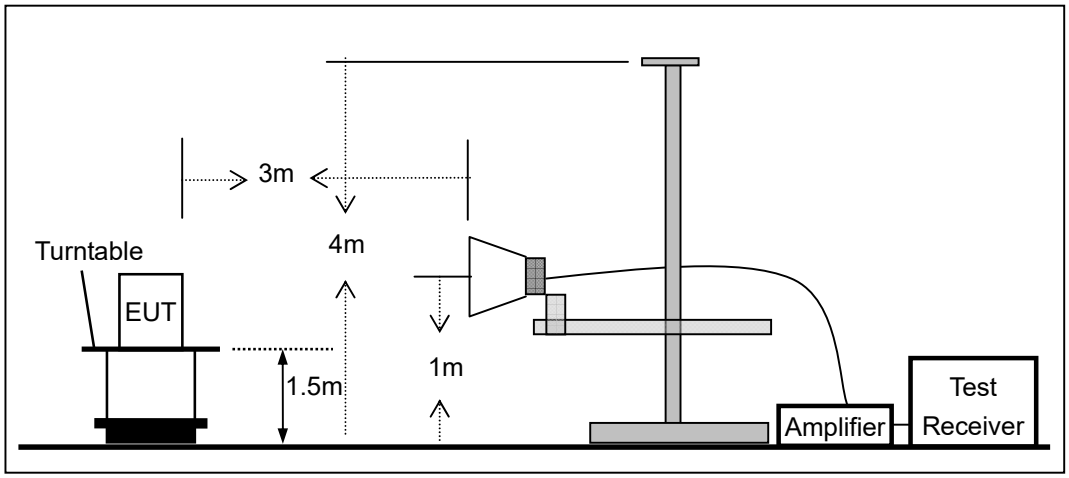
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.4 SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Note
N/A	N/A	N/A	N/A	N/A	N/A

Notes:

1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

8 TEST REQUIREMENTS

8.1 RF POWER OUTPUT

8.1.1 Conformance Limit

No limit requirement.

8.1.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency,
The RF output of the transmitter was connected to base station simulator.
Set EUT at maximum average power by base station simulator.
Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
Set VBW ≥ 3 × RBW.
Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
Sweep time = auto.
Detector = RMS (power averaging).
Set sweep trigger to “free run”.
Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.
Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.
Measure lowest, middle, and highest channels for each bandwidth and different modulation.
Measure and record the results in the test report.

8.1.4 Test Results

Pass

Note: The details please see Appendix A.

8.2 EFFECTIVE (ISOTROPIC) RADIATED POWER

8.2.1 Conformance Limit

For FCC Part 22.913
Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
For FCC Part 24.232
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.

8.2.2 Test Configuration

Test according to clause 7.3 radio frequency test setup 3

8.2.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test
The instrument must have an available measurement/resolution bandwidth that is equal to or exceeds the OBW. If this capability is available, then the following procedure can be used to determine the total peak output power.

a) Set the RBW ≥ OBW.
b) Set VBW ≥ 3 × RBW.
c) Set span ≥ 2 × RBW
d) Sweep time = auto couple.
e) Detector = peak.
f) Ensure that the number of measurement points ≥ span/RBW.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the peak amplitude level.

The EUT was placed on a turn table which is 0.8m above ground plane.Maximum procedure was performed on the six highest emissions to ensure EUT compliance.And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.Repeat above procedures until all frequency measured was complete.
A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUTthrough 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) weremeasured with peak detector.
The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
The EUT shall be replaced by a substitution antenna. The test setup refers to figure below. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antennapolarization.
A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.
The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
The measurement results are obtained as described below:
Power(EIRP)=PMea- PAg - Pcl - Ga

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
ERP can be calculated from EIRP by subtracting the gain of the dipole,
ERP = EIRP -2.15dBi.

8.2.4 Test Results

Pass

Note: The details please see Appendix B.

8.3 MODULATION CHARACTERISTICS

8.3.1 Conformance Limit

No specific modulation characteristics requirement limits.

8.3.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.3.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test,The frequency band is set as selected frequency, test method was according to 3GPP TS 51.010 and 3GPP TS 34.121. and 3GPP2 C.S0011/TIA-98-E for 1XRTT.and 3GPP2 C.S0033-0/tia-866 for Rel.0 and 3GPP2 C.S0033-A for Rev.A The waveform quality and constellation of the was tested.

8.3.4 Test Results

Pass

8.4 OCCUPIED BANDWIDTH

8.4.1 Conformance Limit

No specific modulation characteristics requirement limits.

8.4.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test,

■ 99% Occupied bandwidth

The following procedure shall be used for measuring (99 %) power bandwidth

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
e) Set the detection mode to peak, and the trace mode to max hold..
f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.
g) If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.
h) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

■ 26 dB Occupied bandwidth

The reference value is the highest level of the spectral envelope of the modulated signal.
a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
b) The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
c) Set the reference level of the instrument as required to prevent the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
e) The dynamic range of the spectrum analyzer at the selected RBW shall be at least 10 dB below the target “-X dB down” requirement (i.e., if the requirement calls for measuring the –26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference value).
f) Set the detection mode to peak, and the trace mode to max hold.
g) Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
h) Determine the “-X dB down amplitude” as equal to (Reference Value – X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

i) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
j) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s)

8.4.4 Test Results

Pass

Note: The details please see Appendix C.

8.5 BAND EDGE EMISSION

8.5.1 Conformance Limit

For FCC Part 22.917
≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.
For FCC Part 24.238
≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.

8.5.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.5.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test,

Spectrum Analyzer is set as below:
SET RBW ≥ 1% of Emission BW.
SET VBW about three times of RBW
Detector: RMS
Trace mode= max hold.
Span= 2MHz

8.5.4 Test Results

Pass

Note: The details please see Appendix D.

8.6 OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

8.6.1 Conformance Limit

For FCC Part 22.917
Out of band emissions. 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.
For FCC Part 24.238
Out of band emissions. 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 specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

8.6.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.6.3 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer
Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test,

Spectrum Analyzer is set as below:
9kHz~150kHz, RBW = 1KHz, VBW ≥ 3×RBW,
150kHz~30MHz, RBW = 10KHz, VBW ≥ 3×RBW,
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.
Detector: Peak
Trace mode= max hold.

8.6.4 Test Results

Pass

Note: The details please see Appendix E.

8.7 FIELD STRENGTH OF SPURIOUS RADIATION

8.7.1 Conformance Limit

For FCC Part 22.917
Out of band emissions. 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.
For FCC Part 24.238
Out of band emissions. 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 specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

8.7.2 Test Configuration

Test according to clause 7.3 radio frequency test setup 3

8.7.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.
Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
then the following procedure can be used to determine spurious emission

a) RBW = 1 MHz for f ≥ 1 GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for f<30MHz(150KHz to 30KHz)
b) Set VBW ≥ 3 × RBW.
c) Set span wide enough to fully capture the emission being measured
d) Sweep time = auto couple.
e) Detector = peak.
f) Ensure that the number of measurement points ≥ span/RBW.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the peak amplitude level.

Step1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
Step2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
Step3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
Step4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
Step5. Make the measurement with the spectrum analyzer's RBW , VBW , taking the record of maximum spurious emission.
Step6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.

Step7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
Step8. Taking the record of output power at antenna port.
Step9. Repeat step 7 to step 8 for another polarization.
Step10. Emission level (dBm) = output power + substitution Gain.Test Results

8.7.4 Test Results

Pass

Note: The details please see Appendix F.

8.8 FREQUENCY STABILITY

8.8.1 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

8.8.2 Test Configuration

Test according to clause 7.2 conducted emission test setup2.

8.8.3 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.
EUT was placed at temperature chamber and connected to an external power supply.
Temperature and voltage condition shall be tested to confirm frequency stability.
(a) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10^{o} centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short-term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test.
(b) The frequency stability shall be measured with variation of primary supply voltage as follows:
(1) Vary primary supply voltage from 95 to 105 percent of the nominal value for other than hand carried battery equipment.
(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point, which shall be specified by the manufacturer.

8.8.4 Test Results

Pass

Note: The details please see Appendix G.

8.9 PEAK TO AVERAGE RATIO

8.9.1 Conformance Limit

For FCC Part 24.232
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.

8.9.2 Test Configuration

Test according to clause 7.1 conducted emission test setup1.

8.9.3 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
Set the number of counts to a value that stabilizes the measured CCDF curve.
Set the measurement interval to 1 ms.
Record the maximum PAPR level associated with a probability of 0.1%.
a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
c) Set the number of counts to a value that stabilizes the measured CCDF curve;
d) Set the measurement interval as follows:
1) for continuous transmissions, set to 1 ms,
2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
e) Record the maximum PAPR level associated with a probability of 0.1%.

8.9.4 Test Results

Pass

Note: The details please see Appendix H.

APPENDIX A: TEST DATA FOR RF POWER OUTPUT

		Freq. (MHz)	1xRTT						1xEv-DO		Limit (dBm)	Verdict
	Channel		SO2		SO9		SO55		Rel. 0	Rel. A		
Band	F-RC		RC1	RC3	RC1	RC3	RC1	RC3	Rel. A	RETAP		
BC0	1013	824.7	24.31	24.27	24.29	24.31	24.12	24.37	24.07	24.16	N/A	Pass
	384	836.52	24.21	24.24	24.21	24.23	24.1	24.25	24.12	24.15	N/A	Pass
	777	848.31	23.95	24.02	24.08	24.04	23.94	24.03	24.06	24.06	N/A	Pass
BC1	25	1851.25	24.23	24.28	24.36	24.34	24.31	24.35	24.28	24.13	N/A	Pass
	600	1880.0	24.32	24.29	24.36	24.36	24.34	24.31	24.26	24.17	N/A	Pass
	1175	1908.75	24.29	24.33	24.31	24.33	24.29	24.3	24.13	24.12	N/A	Pass

APPENDIX B: TEST DATA FOR EFFECTIVE (ISOTROPIC) RADIATED POWER

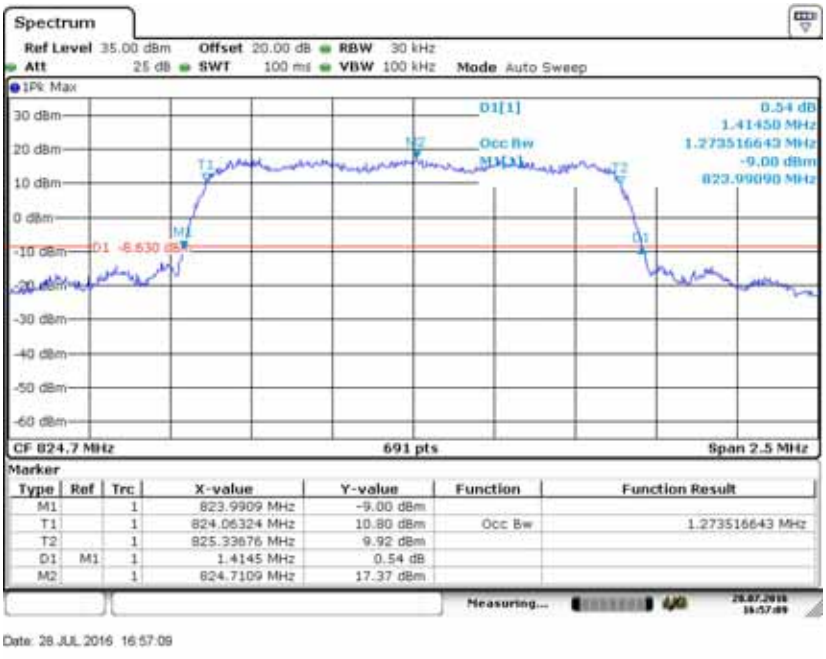
		Freq. (MHz)	1xRTT						1xEv-DO		Limit (dBm)	Verdict
	Channel		SO2		SO9		SO55		Rel. 0	Rel. A		
Band	F-RC		RC1	RC3	RC1	RC3	RC1	RC3	Rel. A	RETAP		
BC0	1013	824.7	24.64	24.60	24.62	24.64	24.45	24.70	24.40	24.49	38.5	Pass
	384	836.52	24.54	24.57	24.54	24.56	24.43	24.58	24.45	24.48	38.5	Pass
	777	848.31	24.28	24.35	24.41	24.37	24.27	24.36	24.39	24.39	38.5	Pass
BC1	25	1851.25	26.57	26.62	26.70	26.68	26.65	26.69	26.62	26.47	33	Pass
	600	1880.0	26.66	26.63	26.70	26.70	26.68	26.65	26.60	26.51	33	Pass
	1175	1908.75	26.63	26.67	26.65	26.67	26.63	26.64	26.47	26.46	33	Pass

APPENDIX C: TEST DATA FOR OCCUPIED BANDWIDTH

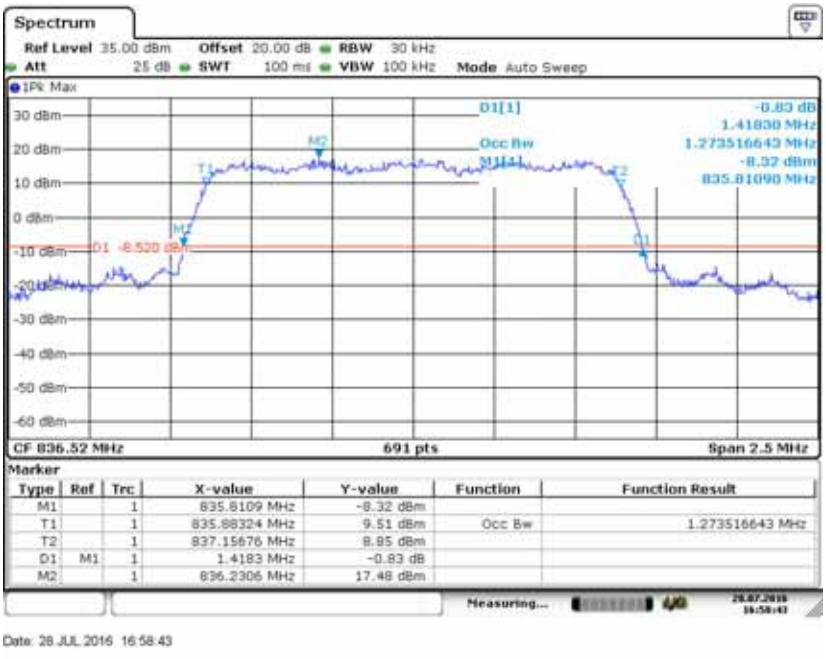
Band	Mode	Channel F-RC	Freq. (MHz)	Occupied Bandwidth (KHz)	Emission Bandwidth (KHz)	Verdict
BC0	1xRTT (SO2, RC1)	1013	824.7	1273.52	1414.50	Pass
		384	836.52	1273.52	1418.30	Pass
		777	848.31	1277.13	1421.90	Pass
	1xRTT (SO2, RC3)	1013	824.7	1266.28	1414.50	Pass
		384	836.52	1269.90	1414.50	Pass
		777	848.31	1269.90	1418.10	Pass
	1xEv-DO(Rel.0)	1013	824.7	1268.98	1422.90	Pass
		384	836.52	1268.98	1420.90	Pass
		777	848.31	1272.98	1426.90	Pass
	1xEv-DO(Rel.A)	1013	824.7	1268.98	1422.90	Pass
		384	836.52	1268.98	1420.90	Pass
		777	848.31	1270.98	1418.90	Pass
BC1	1xRTT (SO2, RC1)	25	1851.25	1274.98	1428.00	Pass
		600	1880.0	1276.98	1424.00	Pass
		1175	1908.75	1278.98	1436.00	Pass
	1xRTT (SO2, RC3)	25	1851.25	1266.98	1420.90	Pass
		600	1880.0	1270.98	1422.00	Pass
		1175	1908.75	1270.98	1424.00	Pass
	1xEv-DO(Rel.0)	25	1851.25	1268.98	1422.90	Pass
		600	1880.0	1268.98	1414.90	Pass
		1175	1908.75	1270.98	1420.90	Pass
	1xEv-DO(Rel.A)	25	1851.25	1270.98	1426.90	Pass
		600	1880.0	1268.98	1426.00	Pass
		1175	1908.75	1268.98	1428.90	Pass

Test plots as follow:

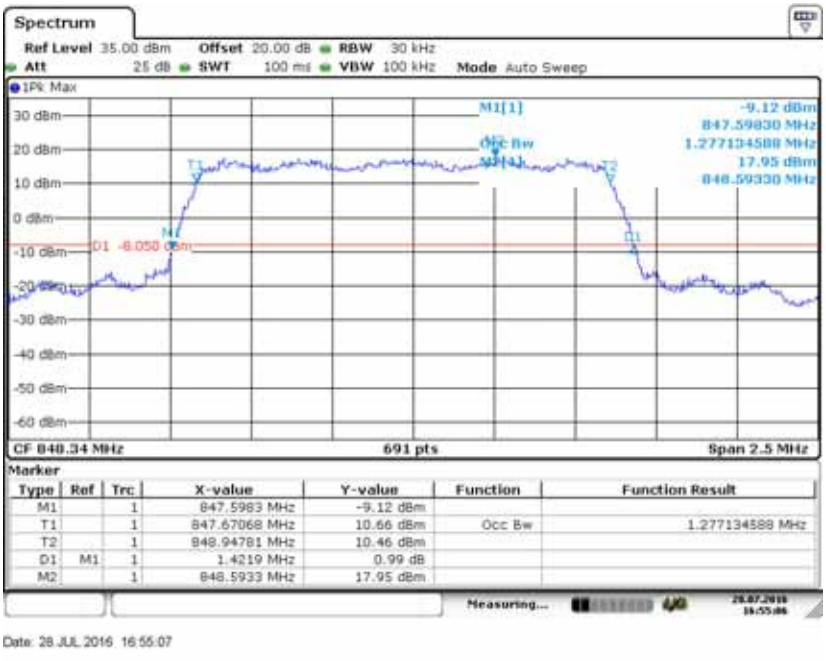
	Bandwidth			
Test Model	BC0	1xRTT(SO2, RC1)		
	Test Channel	1013	Frequency(MHz)	824.7



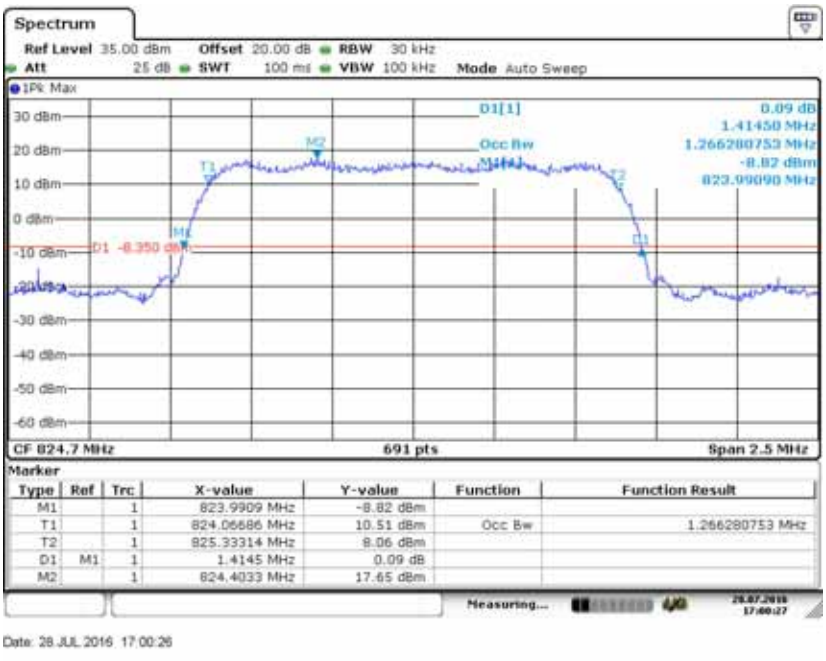
	Bandwidth			
Test Model	BC0	1xRTT(SO2, RC1)		
	Test Channel	384	Frequency(MHz)	836.52



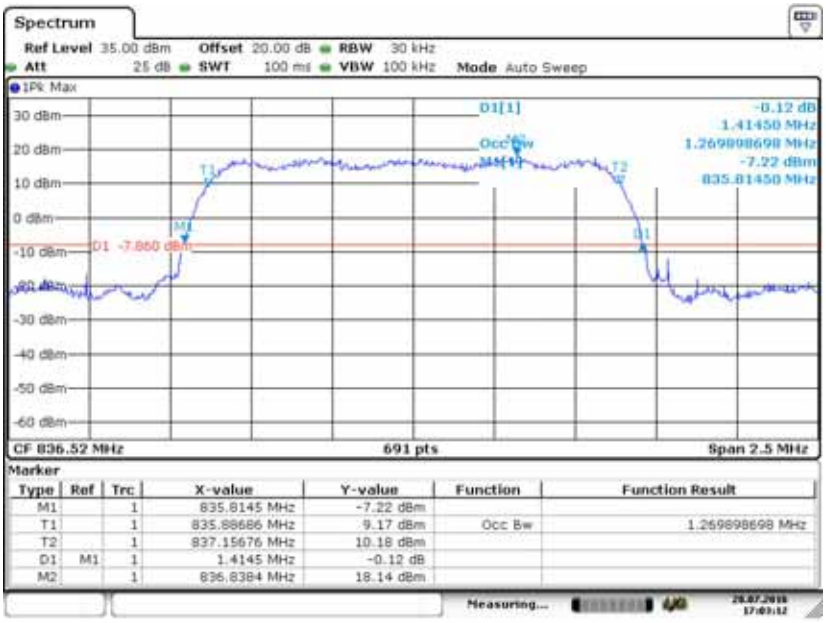
	Bandwidth			
Test Model	BC0	1xRTT(SO2, RC1)		
	Test Channel	777	Frequency(MHz)	848.31



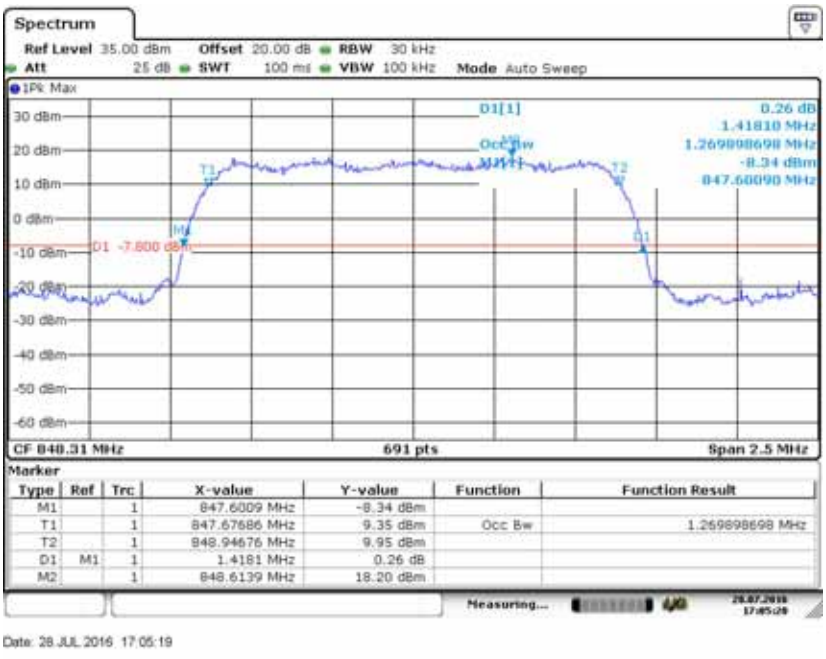
	Bandwidth			
Test Model	BC0	1xRTT(SO2, RC3)		
	Test Channel	1013	Frequency(MHz)	824.7



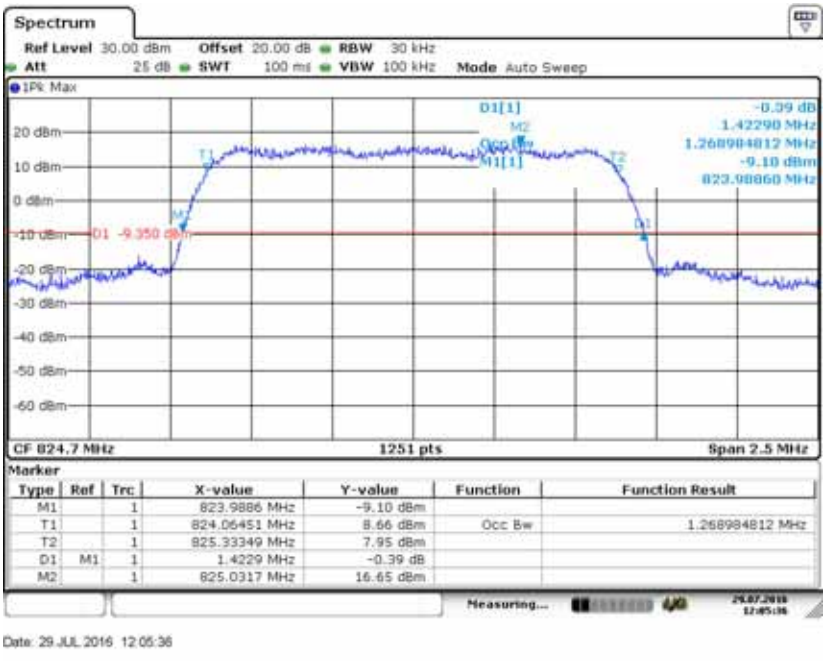
	Bandwidth			
Test Model	BC0	1xRTT(SO2, RC3)		
	Test Channel	384	Frequency(MHz)	836.52



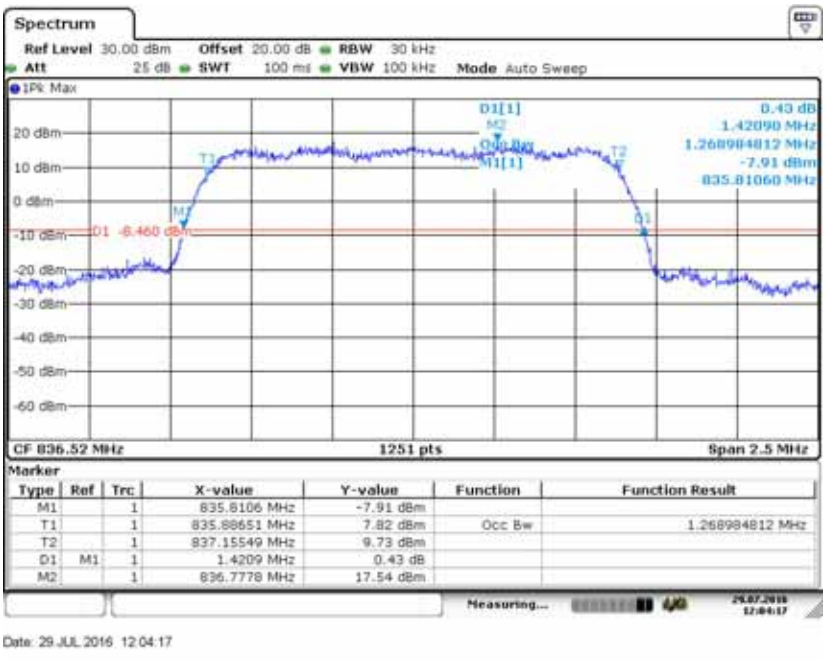
	Bandwidth			
Test Model	BC0	1xRTT(SO2, RC3)		
	Test Channel	777	Frequency(MHz)	848.31



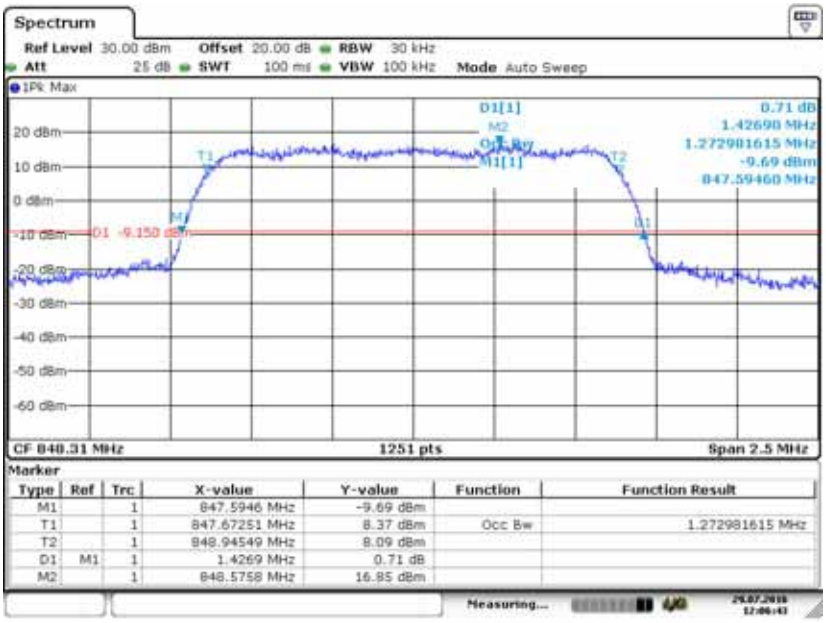
	Bandwidth			
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	1013	Frequency(MHz)	824.7



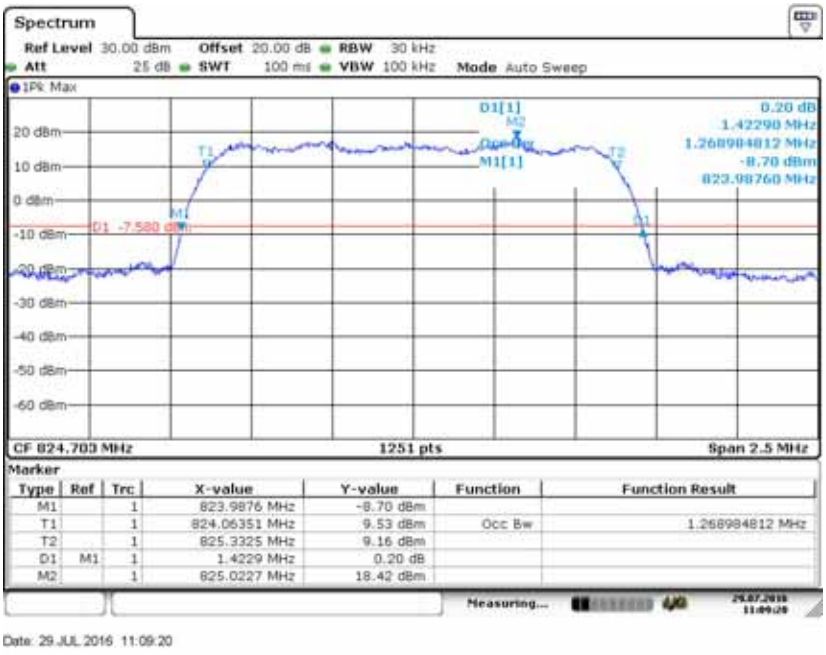
	Bandwidth			
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	384	Frequency(MHz)	836.52



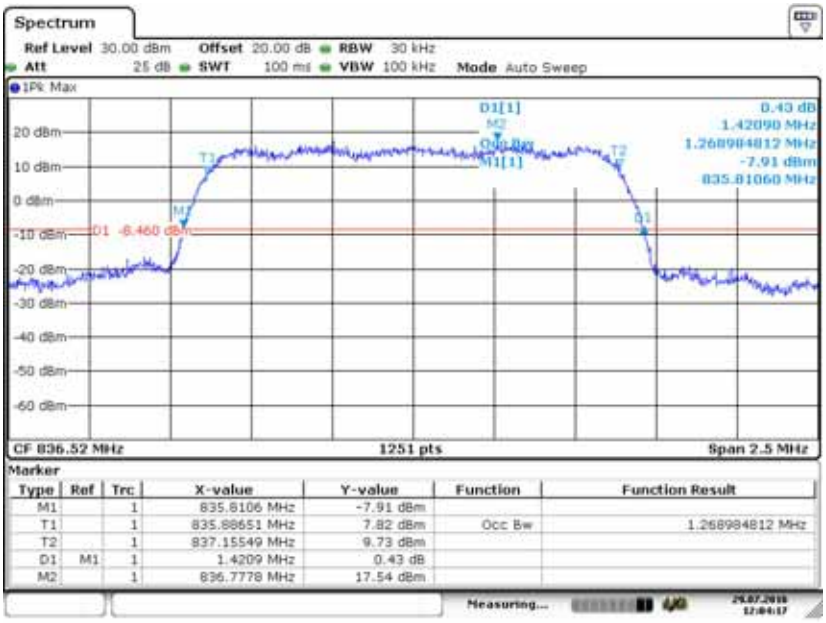
	Bandwidth			
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	777	Frequency(MHz)	848.31



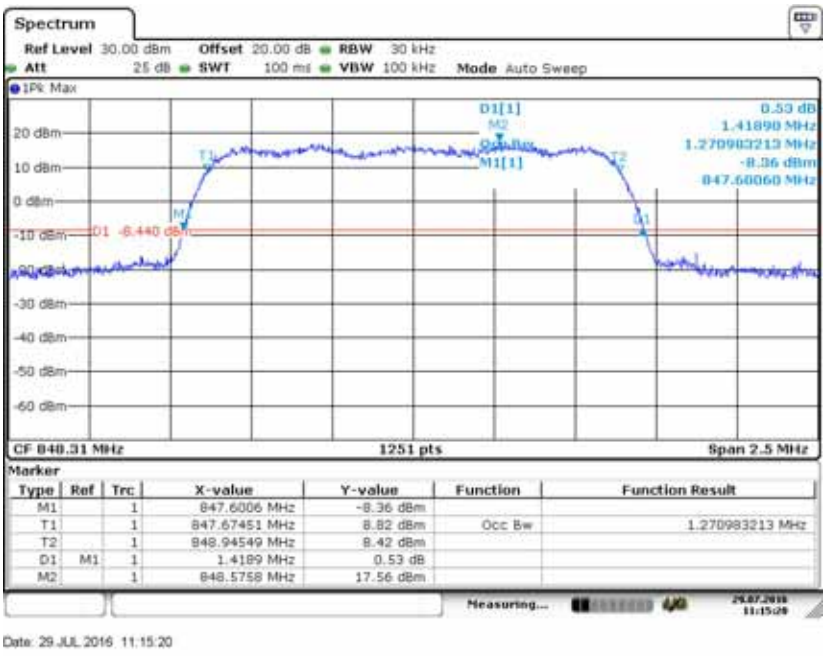
	Bandwidth			
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	1013	Frequency(MHz)	824.7



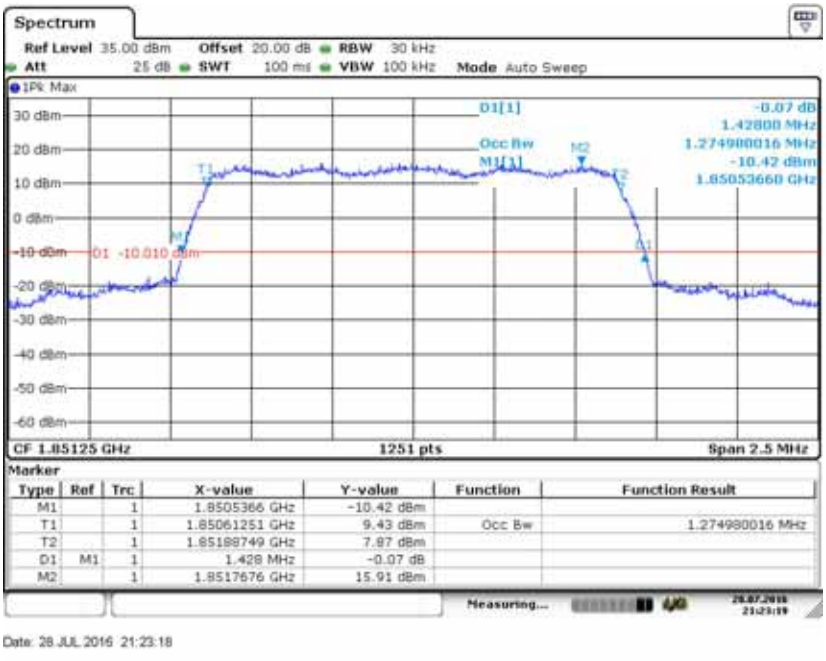
	Bandwidth			
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	384	Frequency(MHz)	836.52



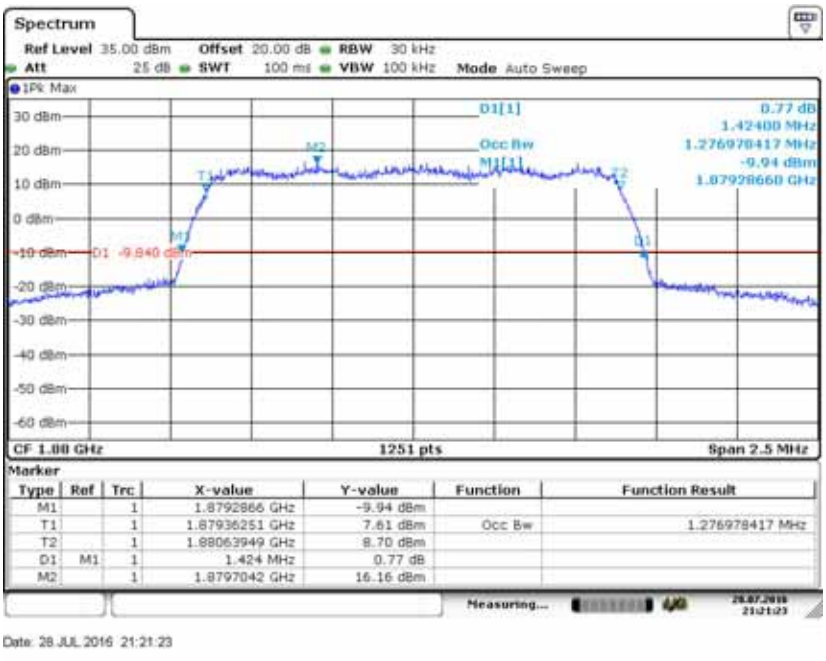
	Bandwidth			
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	777	Frequency(MHz)	848.31



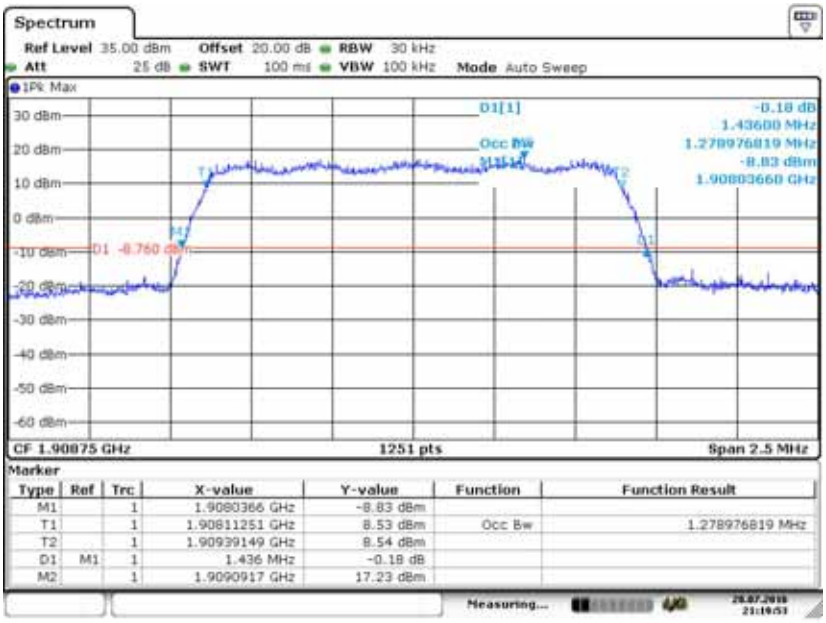
	Bandwidth			
Test Model	BC1	1xRTT(SO2, RC1)		
	Test Channel	25	Frequency(MHz)	1851.25



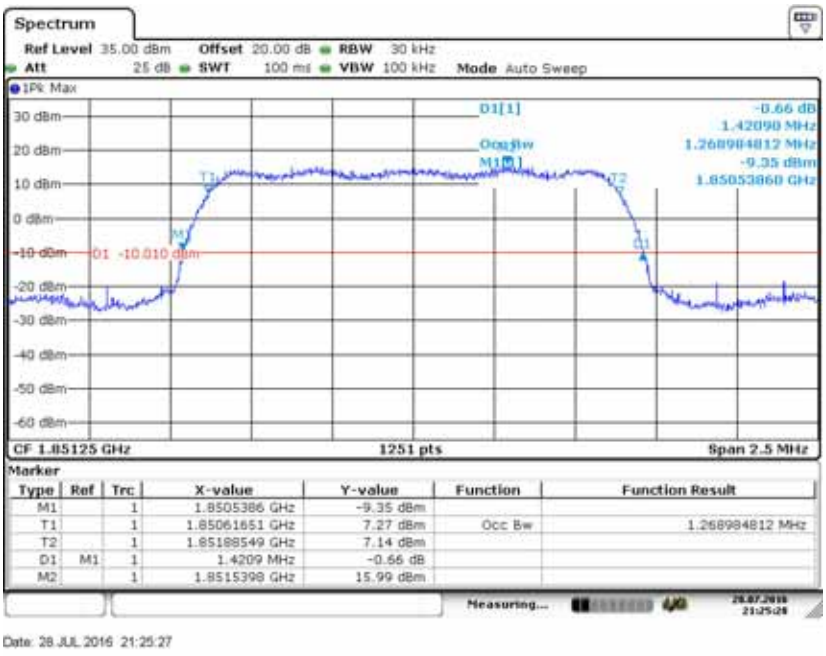
	Bandwidth			
Test Model	BC1	1xRTT(SO2, RC1)		
	Test Channel	600	Frequency(MHz)	1880.0



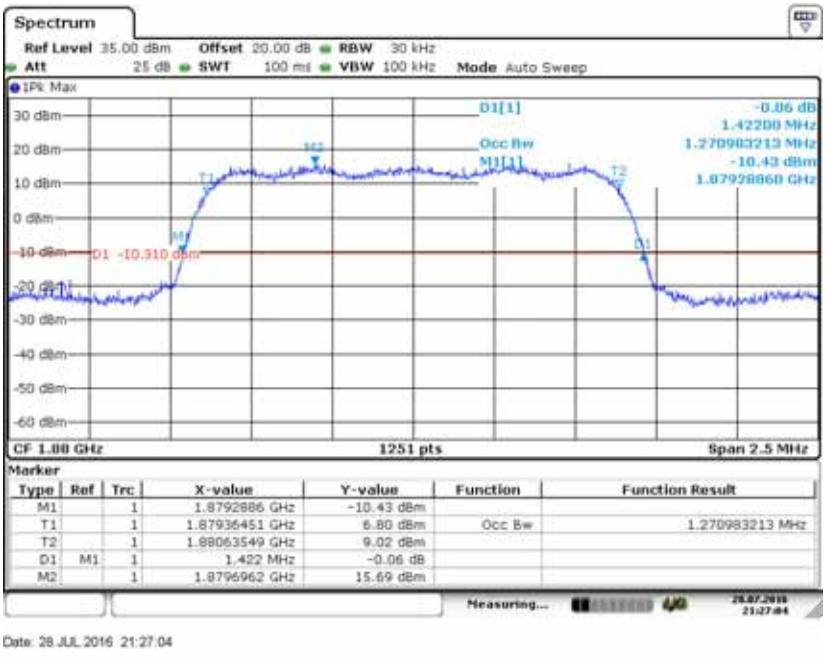
	Bandwidth			
Test Model	BC1	1xRTT(SO2, RC1)		
	Test Channel	1175	Frequency(MHz)	1908.75



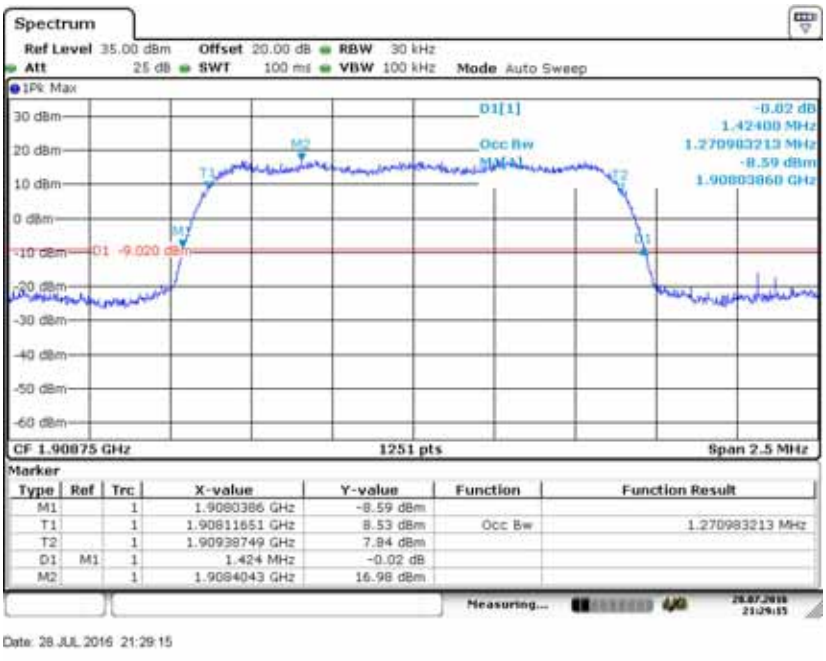
	Bandwidth			
Test Model	BC1	1xRTT(SO2, RC3)		
	Test Channel	25	Frequency(MHz)	1851.25



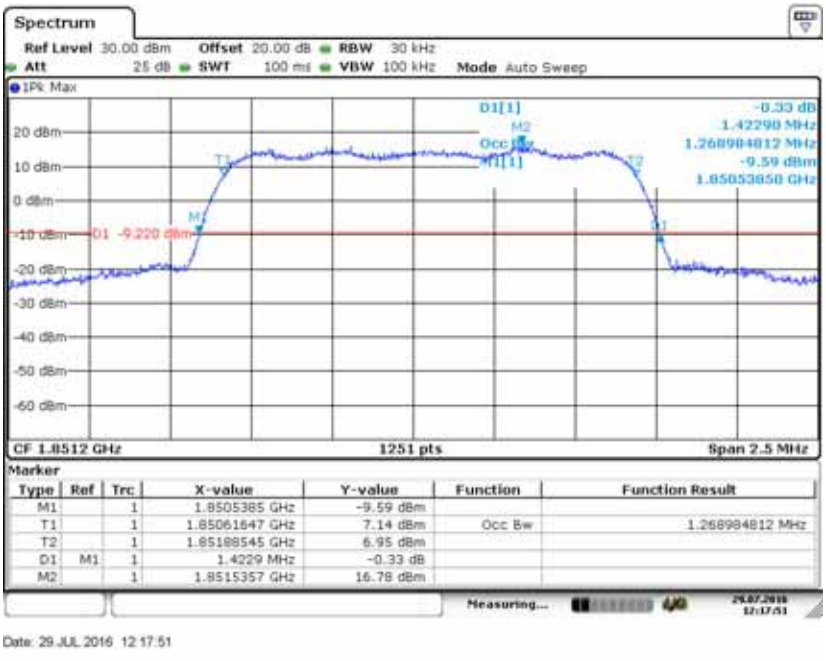
	Bandwidth			
Test Model	BC1	1xRTT(SO2, RC3)		
	Test Channel	600	Frequency(MHz)	1880.0



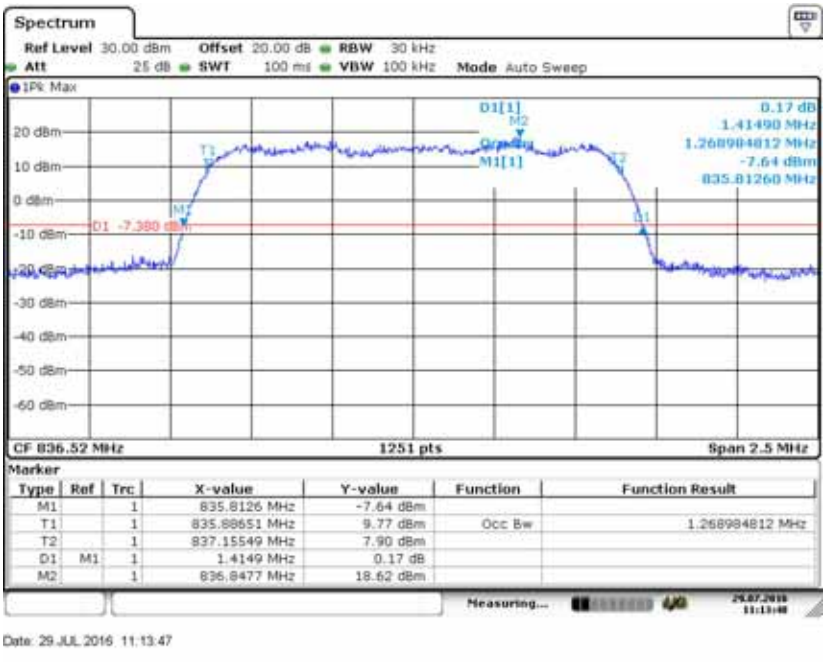
	Bandwidth			
Test Model	BC1	1xRTT(SO2, RC3)		
	Test Channel	1175	Frequency(MHz)	1908.75



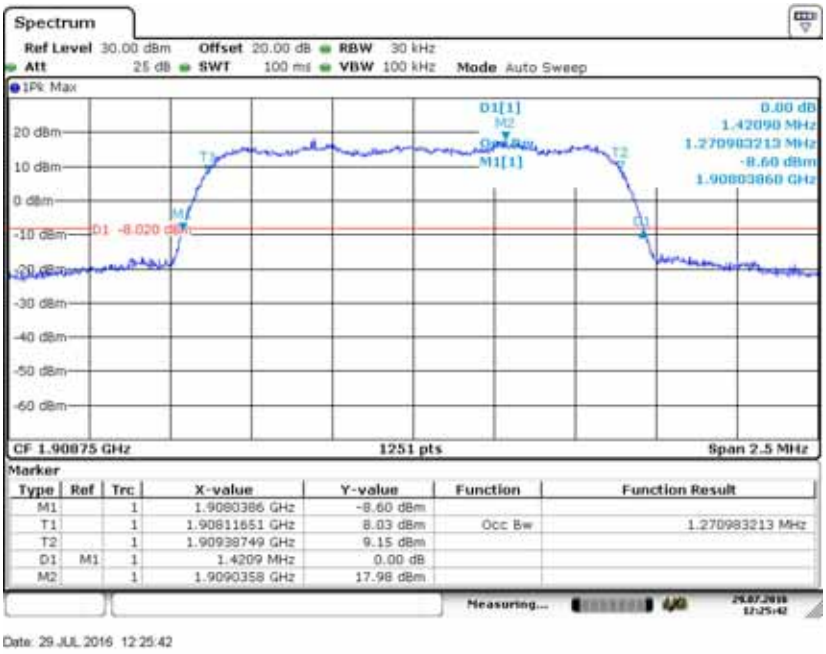
	Bandwidth			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	25	Frequency(MHz)	1851.25



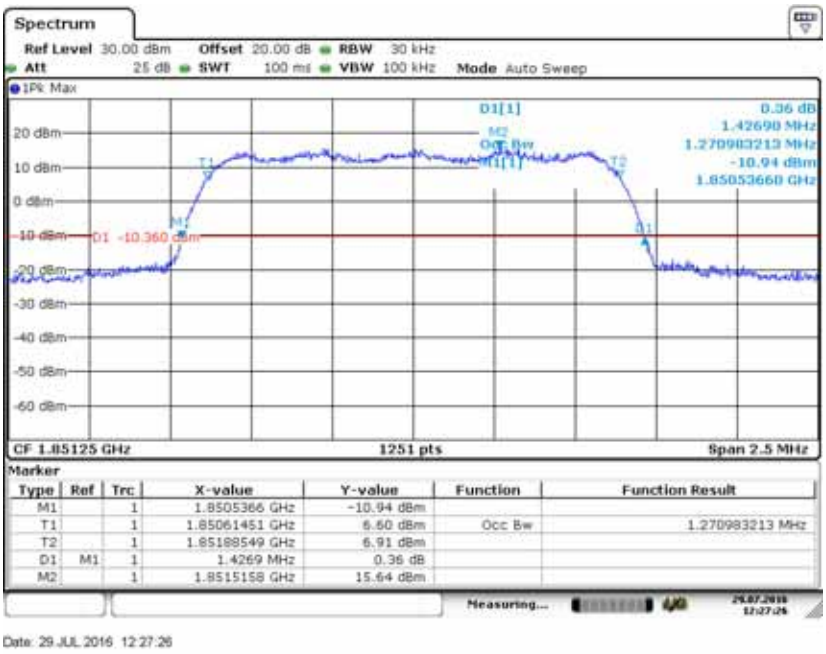
	Bandwidth			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	600	Frequency(MHz)	1880.0



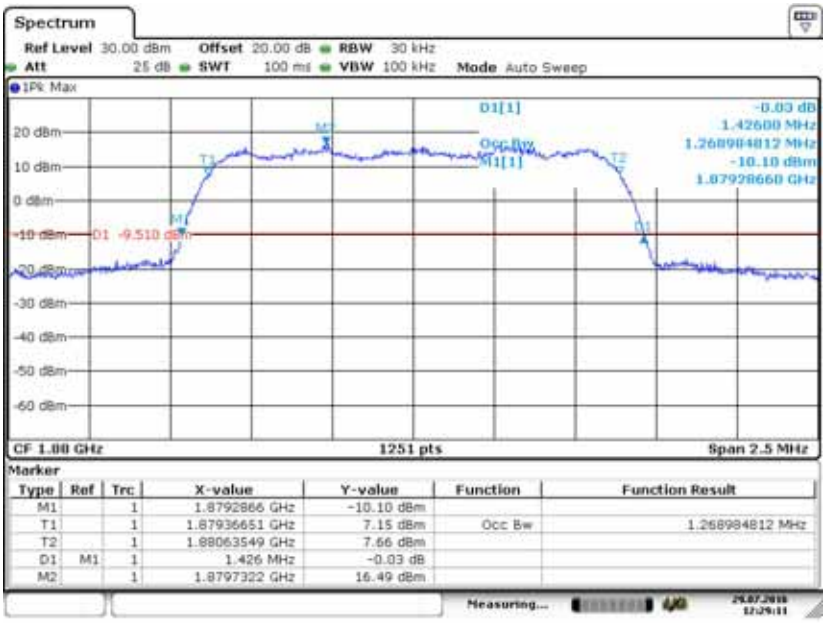
	Bandwidth			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	1175	Frequency(MHz)	1908.75



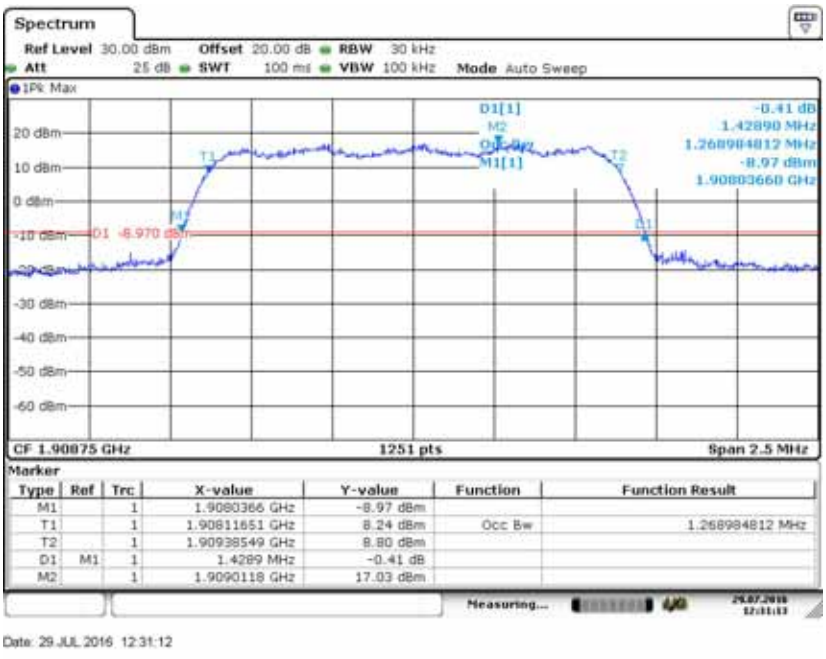
	Bandwidth			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	25	Frequency(MHz)	1851.25



	Bandwidth			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	600	Frequency(MHz)	1880.0



	Bandwidth			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	1175	Frequency(MHz)	1908.75

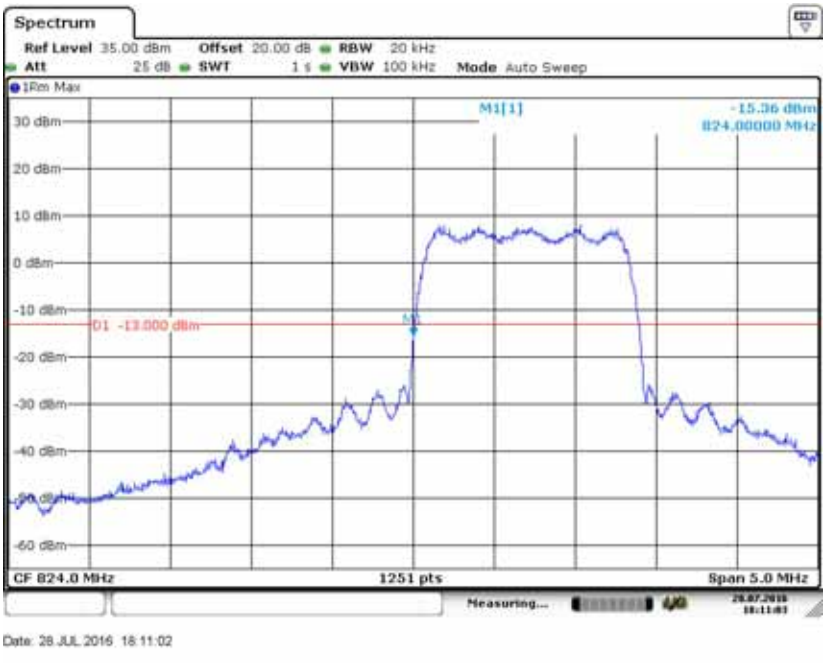


APPENDIX D: TEST DATA FOR BAND EDGE EMISSION

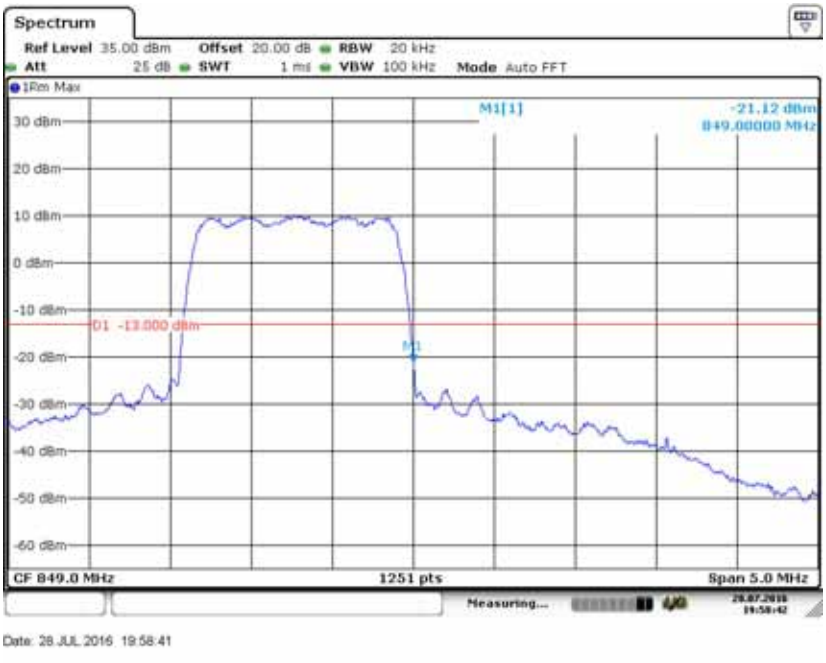
Band	Mode	Channel F-RC	Freq. (MHz)	Values (dBm)	Limit (dBm)	Verdict
BC0	1xRTT	1013	824.7	-15.36	-13.00	Pass
		777	848.31	-21.12	-13.00	Pass
	1xEv-DO(Rel.0)	1013	824.7	-13.98	-13.00	Pass
		777	848.31	-20.39	-13.00	Pass
	1xEv-DO(Rel.A)	1013	824.7	-14.16	-13.00	Pass
		777	848.31	-19.82	-13.00	Pass
BC1	1xRTT	25	1851.25	-32.65	-13.00	Pass
		1175	1908.75	-32.05	-13.00	Pass
	1xEv-DO(Rel.0)	25	1851.25	-33.60	-13.00	Pass
		1175	1908.75	-31.15	-13.00	Pass
	1xEv-DO(Rel.A)	25	1851.25	-33.39	-13.00	Pass
		1175	1908.75	-28.61	-13.00	Pass

Test plots as follow:

	BAND EDGE EMISSION			
Test Model	BC0	1xRTT		
	Test Channel	1013	Frequency(MHz)	824.7

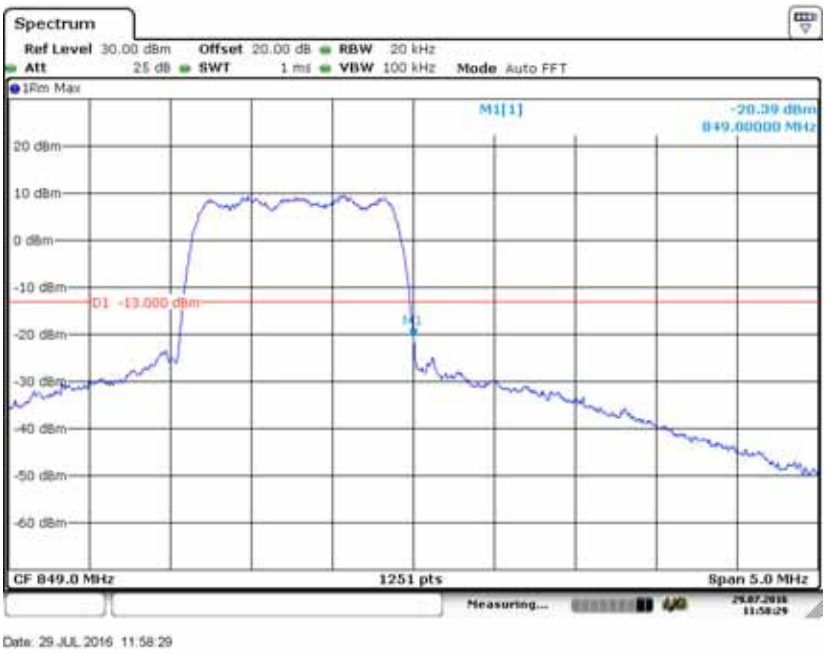


	BAND EDGE EMISSION			
Test Model	BC0	1xRTT		
	Test Channel	777	Frequency(MHz)	848.31

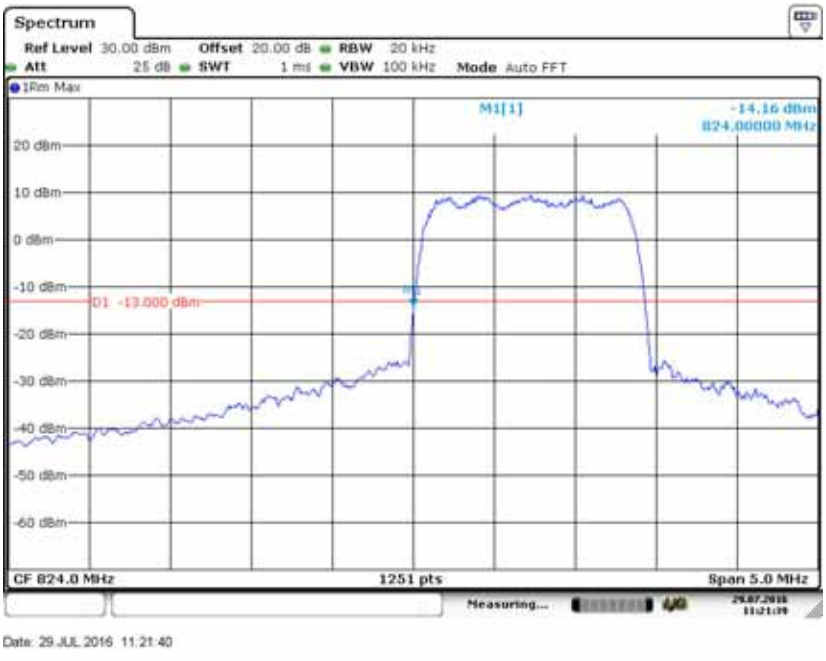


	BAND EDGE EMISSION			
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	1013	Frequency(MHz)	824.7

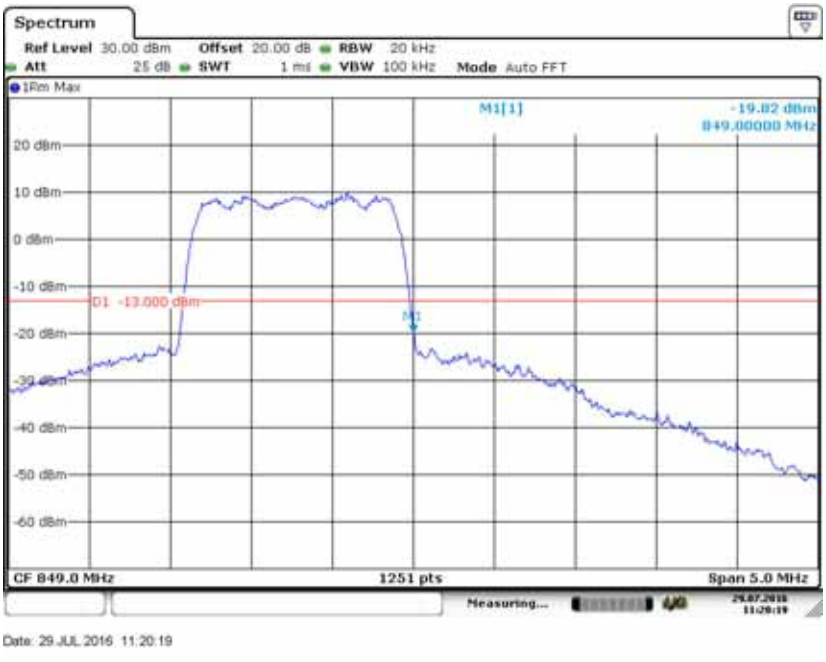
	BAND EDGE EMISSION			
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	777	Frequency(MHz)	848.31



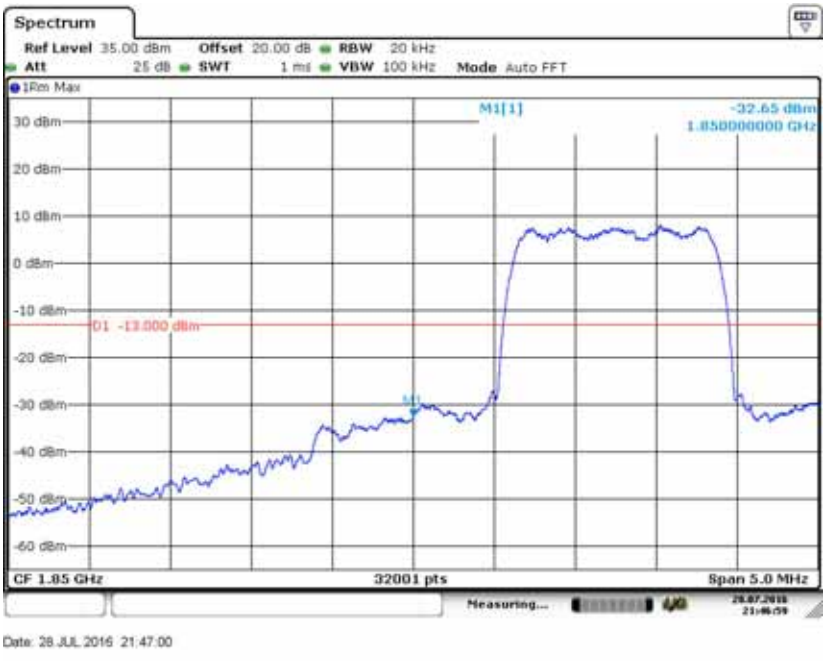
	BAND EDGE EMISSION			
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	1013	Frequency(MHz)	824.7



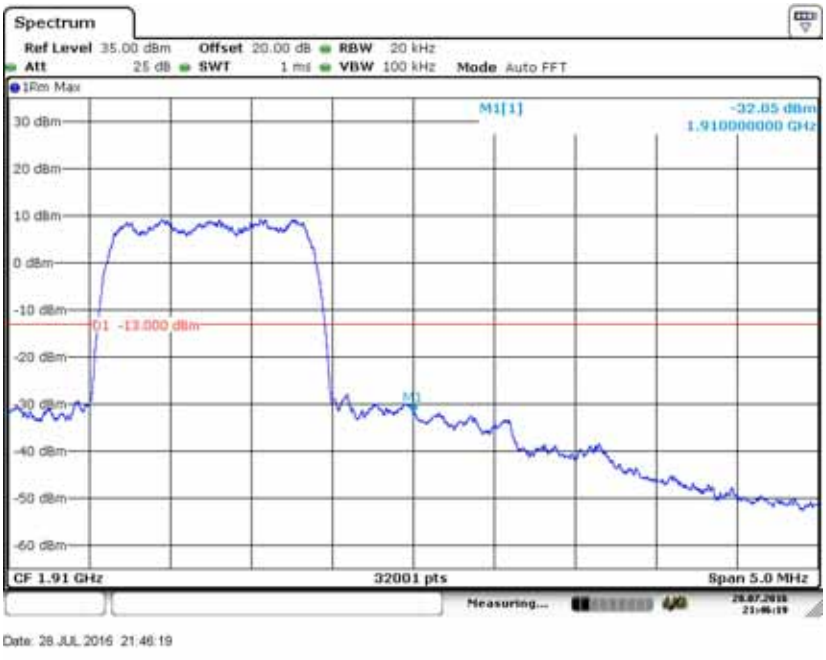
	BAND EDGE EMISSION			
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	777	Frequency(MHz)	848.31



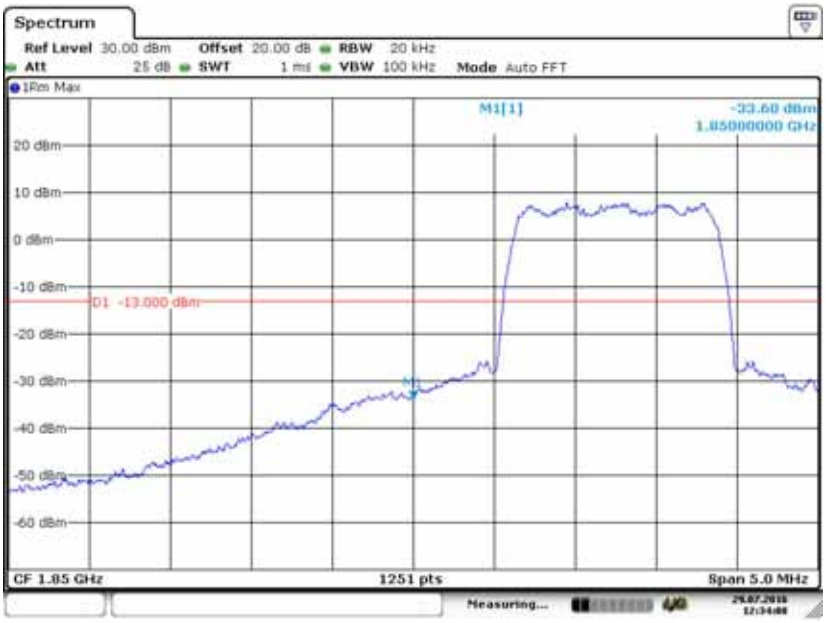
	BAND EDGE EMISSION			
Test Model	BC1	1xRTT		
	Test Channel	25	Frequency(MHz)	1851.25



	BAND EDGE EMISSION			
Test Model	BC1	1xRTT		
	Test Channel	1175	Frequency(MHz)	1908.75



	BAND EDGE EMISSION			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	25	Frequency(MHz)	1851.25



	BAND EDGE EMISSION			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	1175	Frequency(MHz)	1908.75

	BAND EDGE EMISSION			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	25	Frequency(MHz)	1851.25

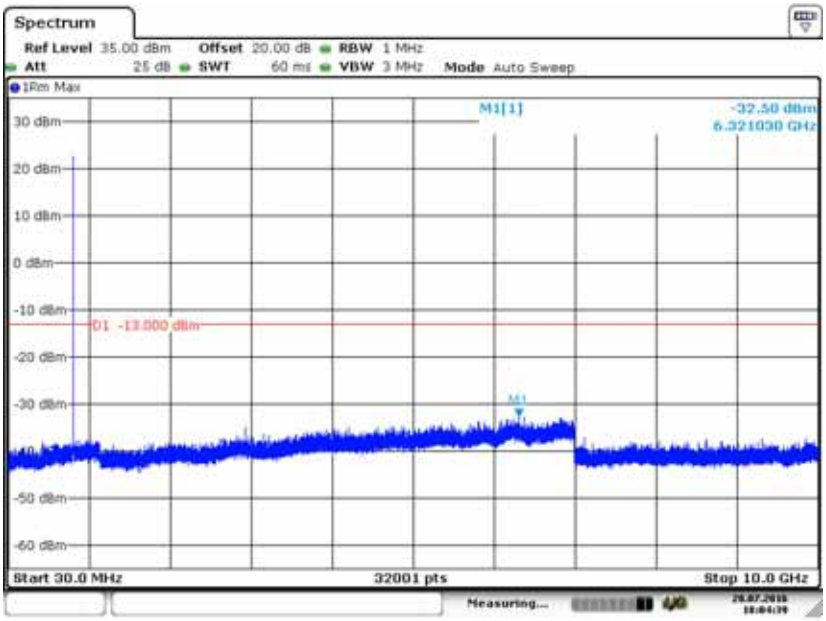
	BAND EDGE EMISSION			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	1175	Frequency(MHz)	1908.75

APPENDIX E: TEST DATA FOR OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

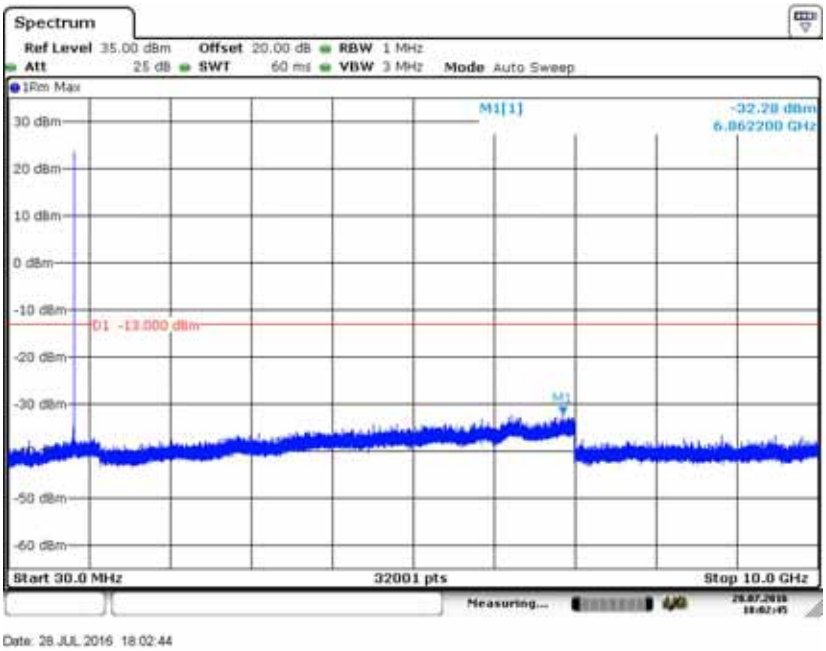
Band	Mode	Channel F-RC	Freq. (MHz)	Values (dBm)	Limit (dBm)	Verdict
BC0	1xRTT	1013	824.7	-32.50	-13.00	Pass
		384	836.52	-32.28	-13.00	Pass
		777	848.31	-32.45	-13.00	Pass
	1xEv-DO(Rel.0)	1013	824.7	-31.17	-13.00	Pass
		384	836.52	-30.80	-13.00	Pass
		777	848.31	-31.53	-13.00	Pass
	1xEv-DO(Rel.A)	1013	824.7	-33.85	-13.00	Pass
		384	836.52	-34.72	-13.00	Pass
		777	848.31	-34.79	-13.00	Pass
BC1	1xRTT	25	1851.25	-33.35	-13.00	Pass
		600	1880.0	-32.52	-13.00	Pass
		1175	1908.75	-33.31	-13.00	Pass
	1xEv-DO(Rel.0)	25	1851.25	-30.94	-13.00	Pass
		600	1880.0	-30.99	-13.00	Pass
		1175	1908.75	-31.17	-13.00	Pass
	1xEv-DO(Rel.A)	25	1851.25	-33.73	-13.00	Pass
		600	1880.0	-33.41	-13.00	Pass
		1175	1908.75	-32.38	-13.00	Pass

Test plots as follow:

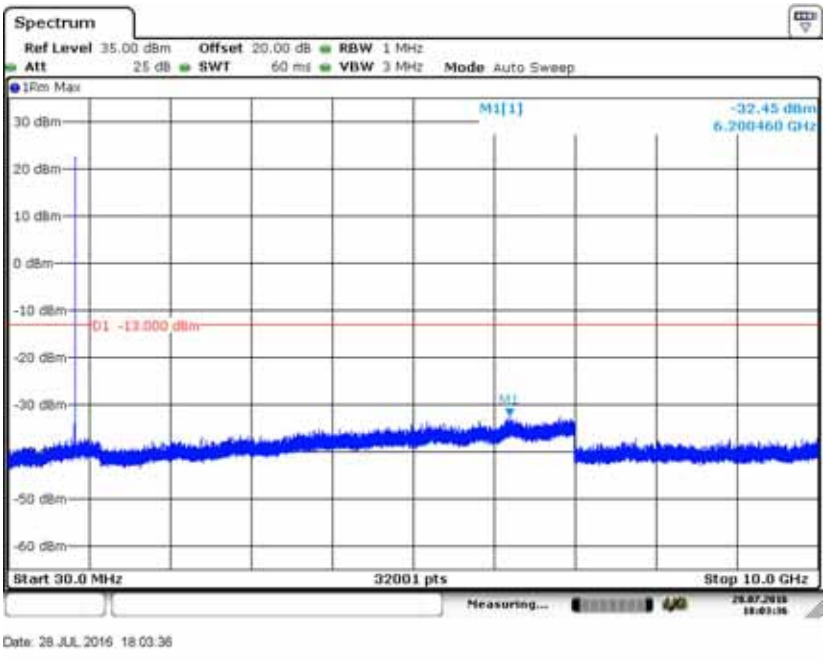
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC0	1xRTT		
	Test Channel	1013	Frequency(MHz)	824.7



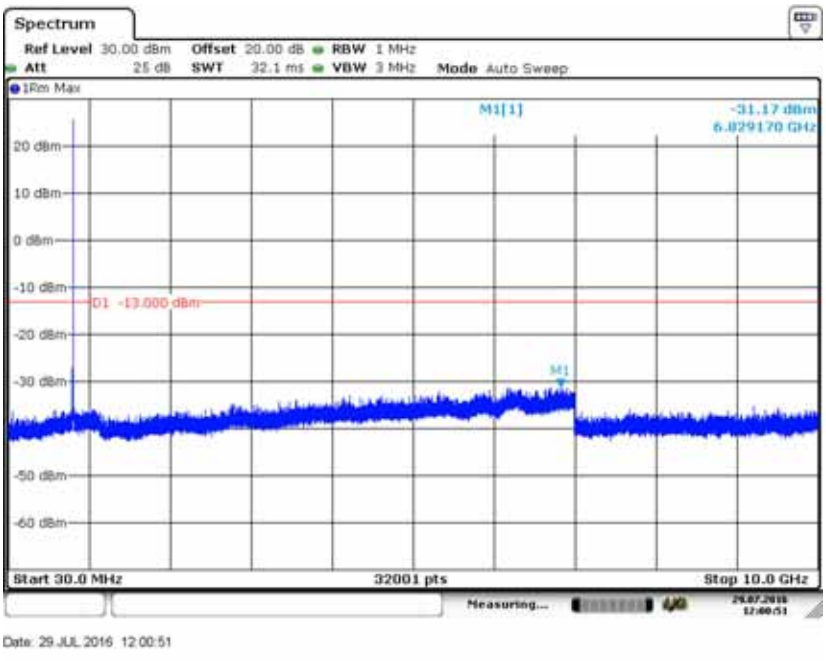
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC0	1xRTT		
	Test Channel	384	Frequency(MHz)	836.52



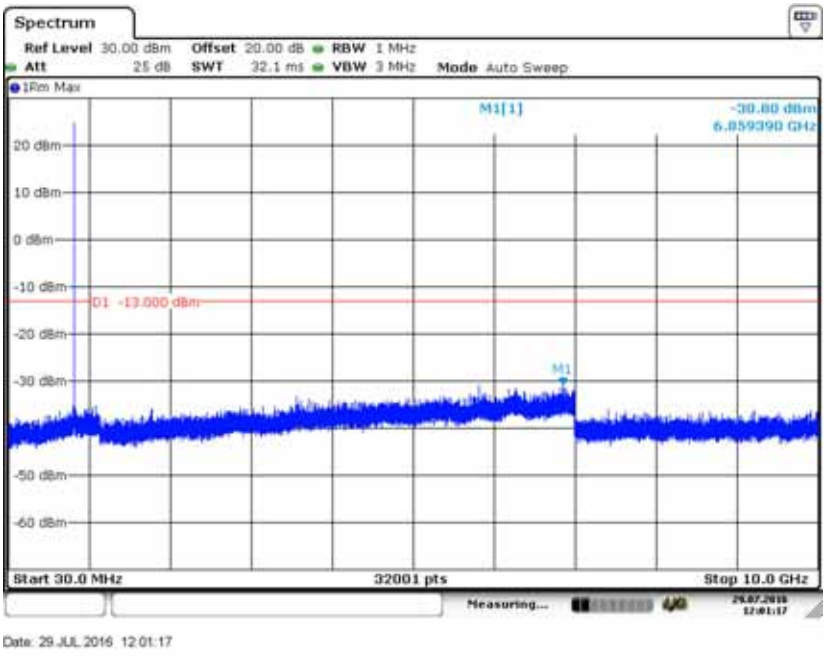
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC0	1xRTT		
	Test Channel	777	Frequency(MHz)	848.31



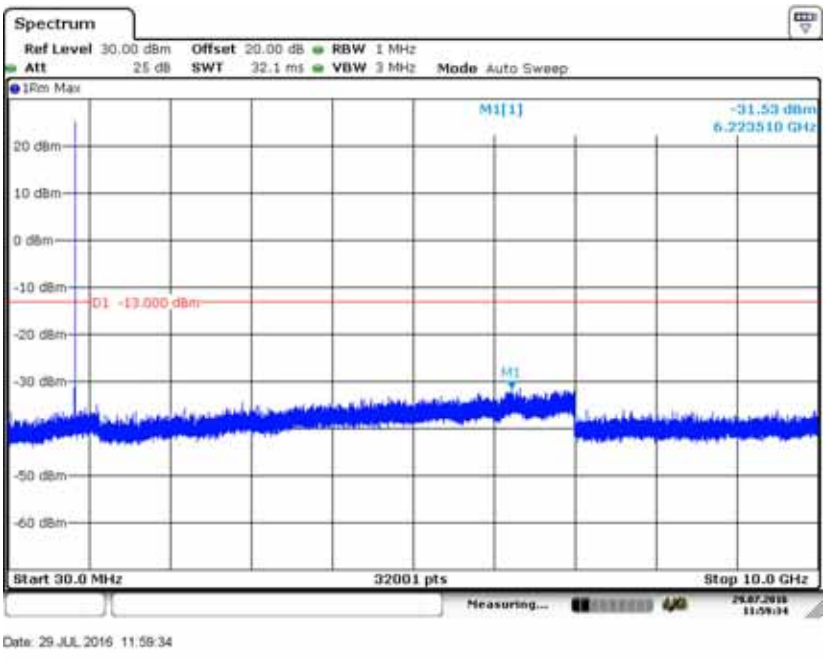
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	1013	Frequency(MHz)	824.7



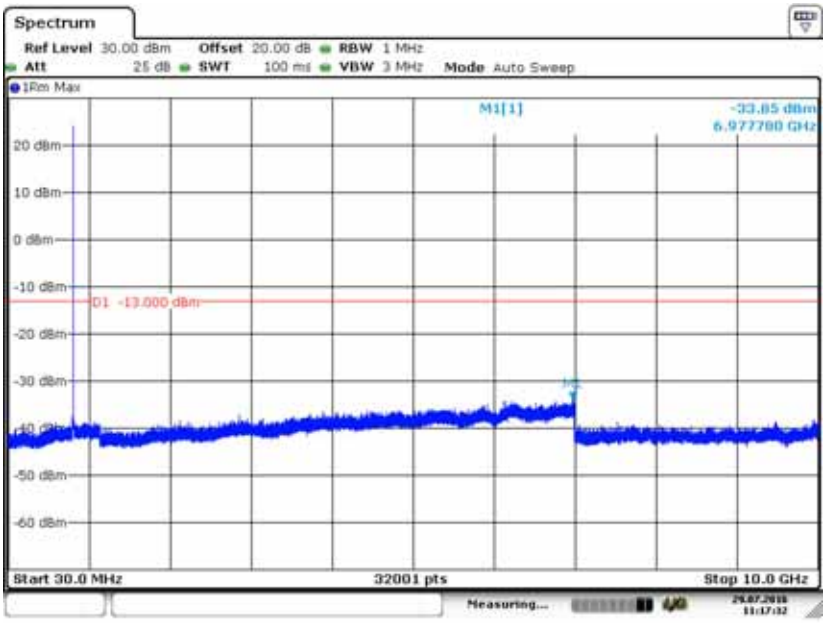
OUT OF BAND EMISSIONS AT ANTENNA TERMINALS				
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	384	Frequency(MHz)	836.52



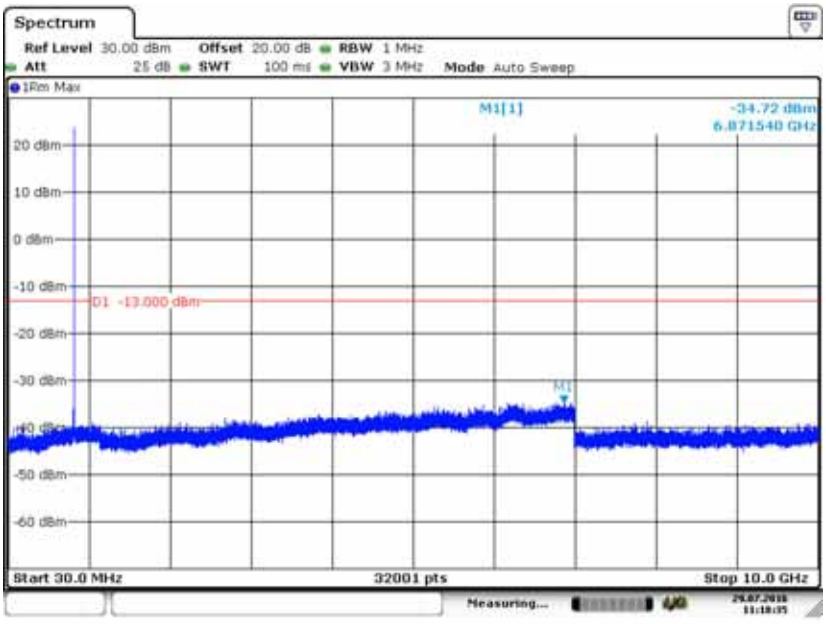
OUT OF BAND EMISSIONS AT ANTENNA TERMINALS				
Test Model	BC0	1xEv-DO(Rel.0)		
	Test Channel	777	Frequency(MHz)	848.31



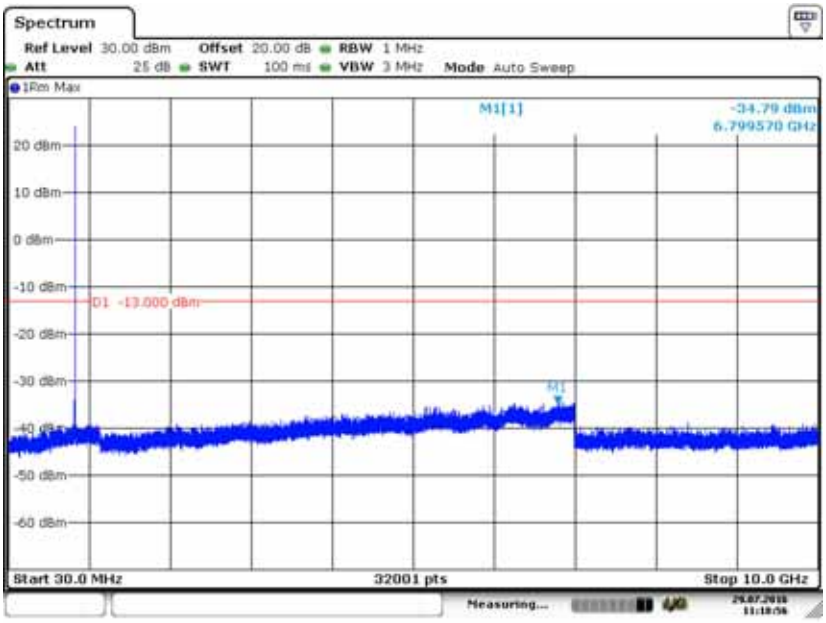
OUT OF BAND EMISSIONS AT ANTENNA TERMINALS				
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	1013	Frequency(MHz)	824.7



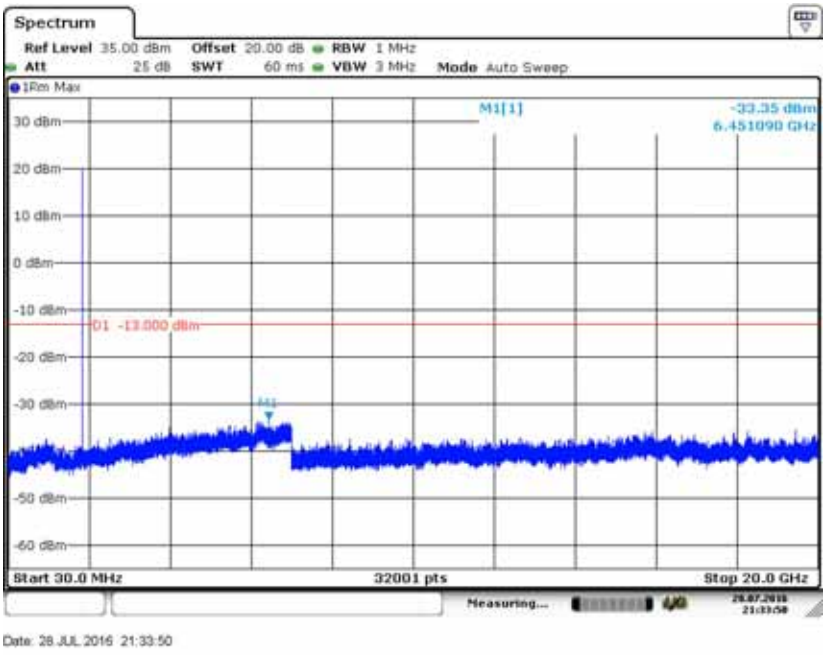
OUT OF BAND EMISSIONS AT ANTENNA TERMINALS				
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	384	Frequency(MHz)	836.52



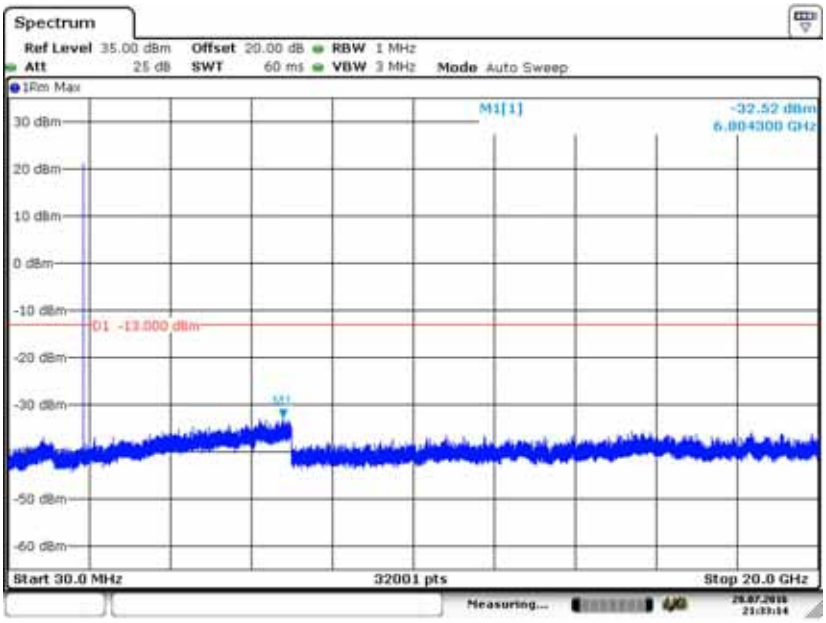
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC0	1xEv-DO(Rel.A)		
	Test Channel	777	Frequency(MHz)	848.31



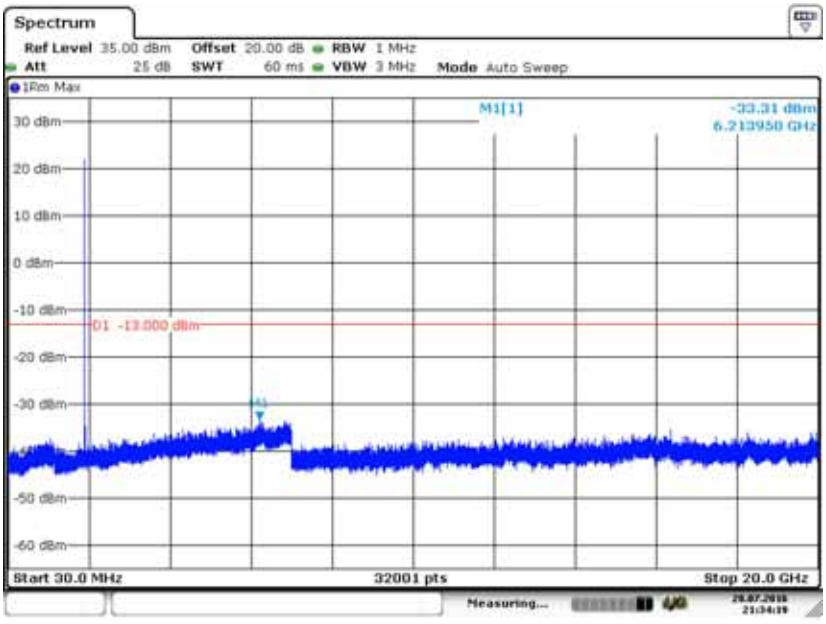
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xRTT		
	Test Channel	25	Frequency(MHz)	1851.25



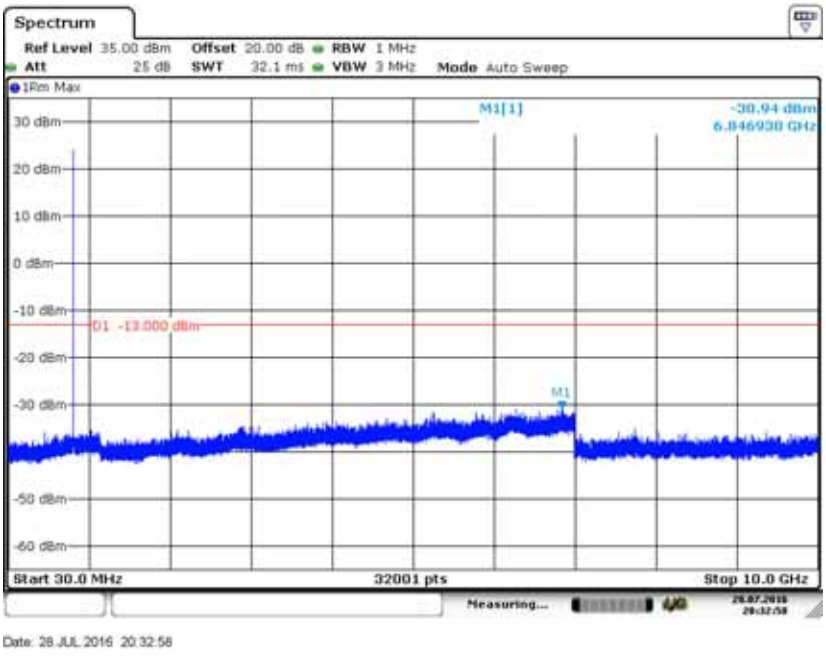
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xRTT		
	Test Channel	600	Frequency(MHz)	1880.0



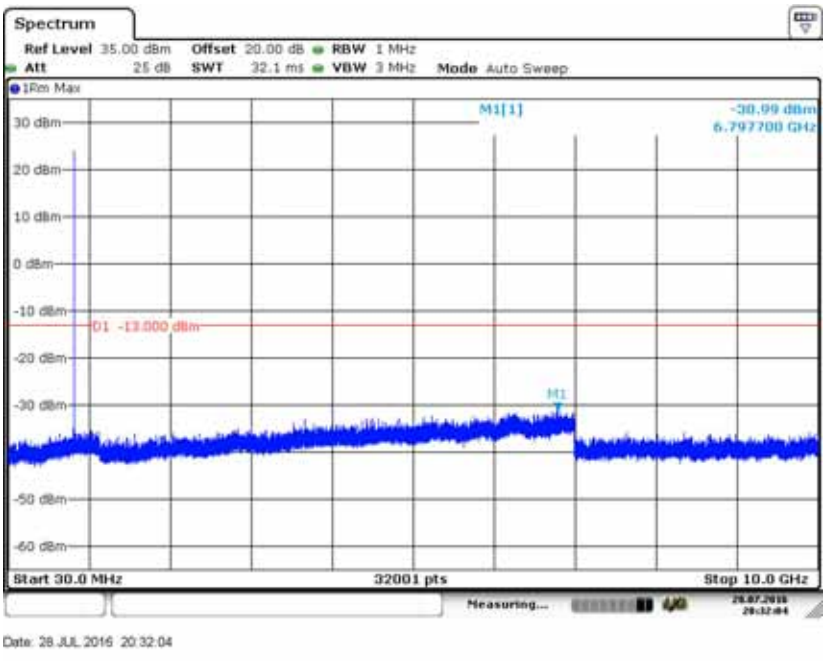
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xRTT		
	Test Channel	1175	Frequency(MHz)	1908.75



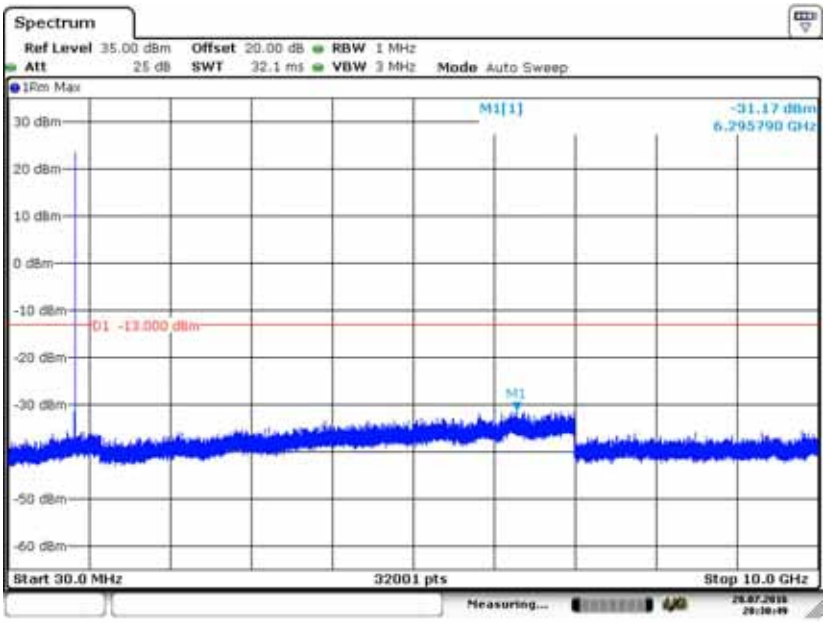
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	25	Frequency(MHz)	1851.25



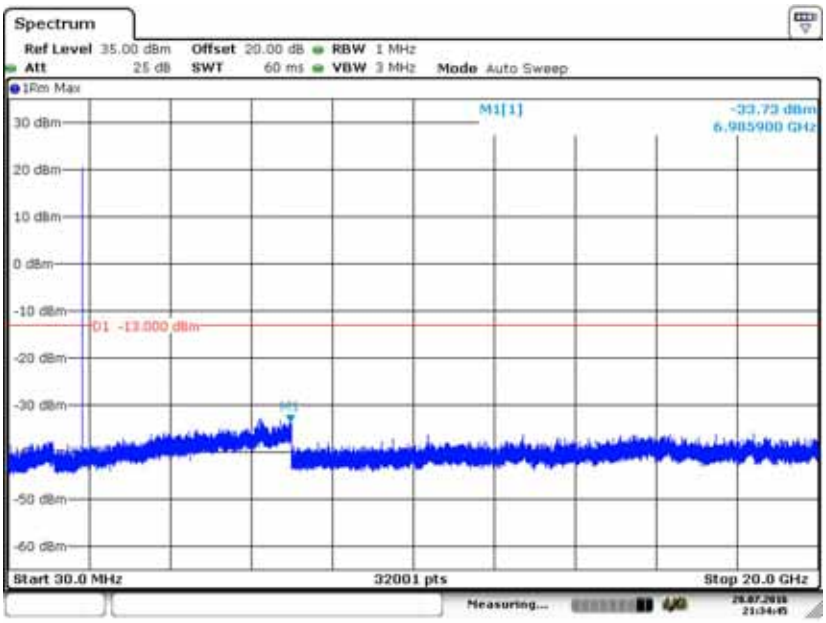
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	600	Frequency(MHz)	1880.0



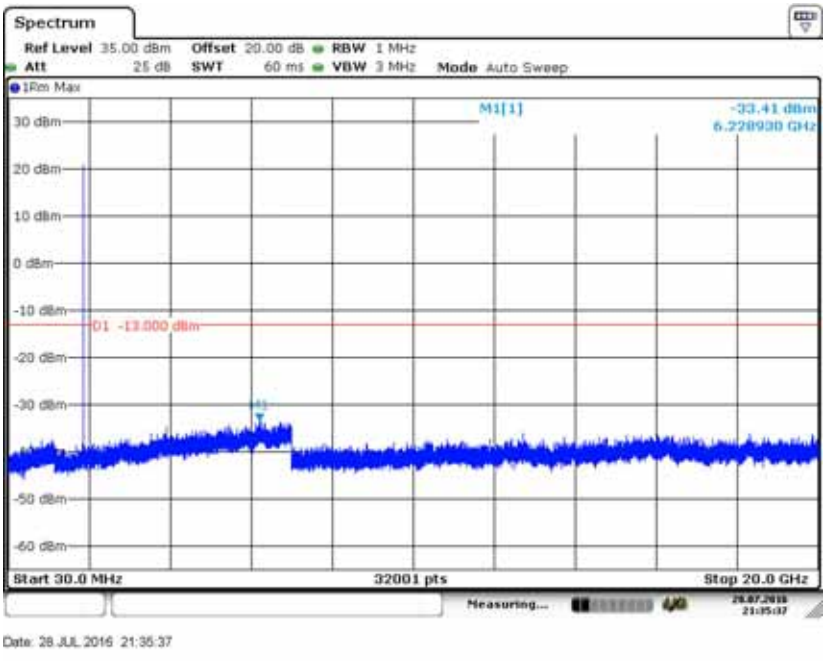
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xEv-DO(Rel.0)		
	Test Channel	1175	Frequency(MHz)	1908.75



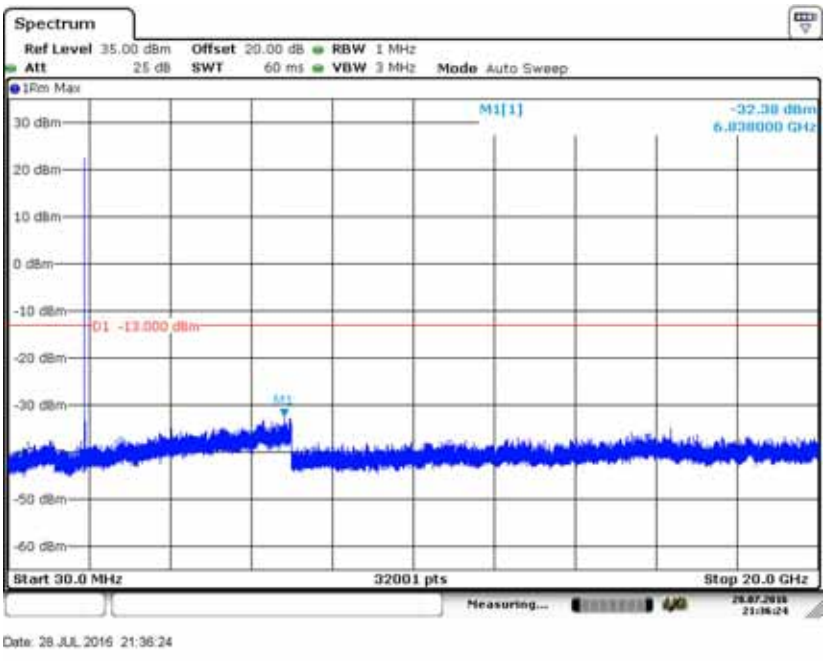
	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	25	Frequency(MHz)	1851.25



	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	600	Frequency(MHz)	1880.0



	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS			
Test Model	BC1	1xEv-DO(Rel.A)		
	Test Channel	1175	Frequency(MHz)	1908.75



APPENDIX F: TEST DATA FOR FIELD STRENGTH OF SPURIOUS RADIATION

All modes have been tested, and the worst result recorded was report as below

For BC0, 1xRTT link

- Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24℃	Test Date:	September 15, 2015
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Limit 3m(dBuV/m) PK	Over(dB) PK
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.
(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

- Spurious Emission Above 30MHz (30MHz to 10th harmonics)

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBm)	Limit (dBm)	Verdict
6862.20	H	-30.25	-13.00	Pass
--	--	--	--	--
--	--	--	--	--
6862.20	V	-30.85	-13.00	Pass
--	--	--	--	--
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.
(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

For BC0, 1xEv-DO(Rel.0) link

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24℃	Test Date:	September 15, 2015
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Limit 3m(dBuV/m) PK	Over(dB) PK
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10th harmonics)

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBm)	Limit (dBm)	Verdict
6859.39	H	-29.30	-13.00	Pass
--	--	--	--	--
--	--	--	--	--
6859.39	V	-29.51	-13.00	Pass
--	--	--	--	--
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

For For BC0, 1xEv-DO(Rel.A) link link

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24℃	Test Date:	September 15, 2015
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Limit 3m(dBuV/m) PK	Over(dB) PK
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10th harmonics)

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBm)	Limit (dBm)	Verdict
6871.54	H	-32.48	-13.00	Pass
--	--	--	--	--
--	--	--	--	--
6871.54	V	-32.63	-13.00	Pass
--	--	--	--	--
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

For BC1, 1xRTT link

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24℃	Test Date:	September 15, 2015
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Limit 3m(dBuV/m) PK	Over(dB) PK
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10th harmonics)

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBm)	Limit (dBm)	Verdict
6804.30	H	-30.25	-13.00	Pass
--	--	--	--	--
--	--	--	--	--
6804.30	V	-30.69	-13.00	Pass
--	--	--	--	--
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

For For BC1, 1xEv-DO(Rel.0) link

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24℃	Test Date:	September 15, 2015
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Limit 3m(dBuV/m) PK	Over(dB) PK
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10th harmonics)

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBm)	Limit (dBm)	Verdict
6797.70	H	-30.12	-13.00	Pass
--	--	--	--	--
--	--	--	--	--
6797.70	V	-30.25	-13.00	Pass
--	--	--	--	--
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

For For BC1, 1xEv-DO(Rel.A) link

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24℃	Test Date:	September 15, 2015
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Limit 3m(dBuV/m) PK	Over(dB) PK
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10th harmonics)

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBm)	Limit (dBm)	Verdict
6228.93	H	-33.10	-13.00	Pass
--	--	--	--	--
--	--	--	--	--
6228.93	V	-32.92	-13.00	Pass
--	--	--	--	--
--	--	--	--	--

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

APPENDIX G: TEST DATA FOR FREQUENCY STABILITY

All modes have been tested, and the worst result recorded was report as below

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xRTT	1013	VN	-20	824.7	-23.15	-0.02807	2.5
				-10	824.7	-20.19	-0.02448	2.5
				0	824.7	-25.69	-0.03115	2.5
				10	824.7	-40.62	-0.04925	2.5
				20	824.7	-35.29	-0.04279	2.5
				30	824.7	-30.24	-0.03667	2.5
				40	824.7	-30.58	-0.03708	2.5
				50	824.7	-20.47	-0.02482	2.5
			VL	20	824.7	-26.30	-0.03189	2.5
			VH	20	824.7	-24.69	-0.02994	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xRTT	384	VN	-20	836.52	-10.25	-0.01225	2.5
				-10	836.52	-10.85	-0.01297	2.5
				0	836.52	-11.25	-0.01345	2.5
				10	836.52	-15.36	-0.01836	2.5
				20	836.52	-15.85	-0.01895	2.5
				30	836.52	-14.36	-0.01717	2.5
				40	836.52	-16.30	-0.01949	2.5
				50	836.52	-14.38	-0.01719	2.5
			VL	20	836.52	-14.52	-0.01736	2.5
			VH	20	836.52	-18.25	-0.02182	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xRTT	777	VN	-20	848.31	-20.36	-0.024	2.5
				-10	848.31	-21.36	-0.02518	2.5
				0	848.31	-25.85	-0.03047	2.5
				10	848.31	-24.39	-0.02875	2.5
				20	848.31	-28.36	-0.03343	2.5
				30	848.31	-24.48	-0.02886	2.5
				40	848.31	-26.58	-0.03133	2.5
				50	848.31	-27.26	-0.03213	2.5
			VL	20	848.31	-28.60	-0.03371	2.5
			VH	20	848.31	-25.36	-0.02989	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xEv-DO (Rel.0)	1013	VN	-20	824.7	-40.36	-0.04894	2.5
				-10	824.7	-45.29	-0.05492	2.5
				0	824.7	-42.34	-0.05134	2.5
				10	824.7	-40.15	-0.04868	2.5
				20	824.7	-43.58	-0.05284	2.5
				30	824.7	-45.68	-0.05539	2.5
				40	824.7	-45.29	-0.05492	2.5
				50	824.7	-47.63	-0.05775	2.5
			VL	20	824.7	-43.85	-0.05317	2.5
			VH	20	824.7	-46.35	-0.0562	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xEv-DO (Rel.0)	384	VN	-20	836.52	-30.59	-0.03657	2.5
				-10	836.52	-31.25	-0.03736	2.5
				0	836.52	-30.58	-0.03656	2.5
				10	836.52	-30.25	-0.03616	2.5
				20	836.52	-36.85	-0.04405	2.5
				30	836.52	-34.15	-0.04082	2.5
				40	836.52	-36.92	-0.04414	2.5
				50	836.52	-42.36	-0.05064	2.5
			VL	20	836.52	-13.56	-0.01621	2.5
			VH	20	836.52	-42.06	-0.05028	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xEv-DO (Rel.0)	777	VN	-20	848.31	-15.26	-0.01799	2.5
				-10	848.31	-15.36	-0.01811	2.5
				0	848.31	-16.47	-0.01942	2.5
				10	848.31	-18.12	-0.02136	2.5
				20	848.31	-12.05	-0.0142	2.5
				30	848.31	-10.45	-0.01232	2.5
				40	848.31	-10.59	-0.01248	2.5
				50	848.31	-13.59	-0.01602	2.5
			VL	20	848.31	-12.85	-0.01515	2.5
			VH	20	848.31	-12.47	-0.0147	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xEv-DO (Rel.A)	1013	VN	-20	824.7	-3.25	-0.00394	2.5
				-10	824.7	-3.69	-0.00447	2.5
				0	824.7	-3.15	-0.00382	2.5
				10	824.7	-3.69	-0.00447	2.5
				20	824.7	-4.25	-0.00515	2.5
				30	824.7	-6.25	-0.00758	2.5
				40	824.7	-8.26	-0.01002	2.5
				50	824.7	-5.36	-0.0065	2.5
			VL	20	824.7	-4.23	-0.00513	2.5
			VH	20	824.7	-8.30	-0.01006	2.5
VERDICT			PASS					

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xEv-DO (Rel.A)	384	VN	-20	836.52	-10.25	-0.01225	2.5
				-10	836.52	-10.36	-0.01238	2.5
				0	836.52	-9.59	-0.01146	2.5
				10	836.52	-6.36	-0.0076	2.5
				20	836.52	-8.15	-0.00974	2.5
				30	836.52	-7.26	-0.00868	2.5
				40	836.52	-5.69	-0.0068	2.5
				50	836.52	-2.35	-0.00281	2.5
			VL	20	836.52	-4.16	-0.00497	2.5
			VH	20	836.52	-5.26	-0.00629	2.5
VERDICT			PASS					

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC0	1xEv-DO (Rel.A)	777	VN	-20	848.31	-6.30	-0.00743	2.5
				-10	848.31	-5.26	-0.0062	2.5
				0	848.31	-4.69	-0.00553	2.5
				10	848.31	-8.36	-0.00985	2.5
				20	848.31	-7.26	-0.00856	2.5
				30	848.31	-9.26	-0.01092	2.5
				40	848.31	-1.36	-0.0016	2.5
				50	848.31	-5.20	-0.00613	2.5
			VL	20	848.31	-6.03	-0.00711	2.5
			VH	20	848.31	-3.02	-0.00356	2.5
VERDICT			PASS					

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xRTT	25	VN	-20	1851.25	-12.56	-0.00678	2.5
				-10	1851.25	-14.36	-0.00776	2.5
				0	1851.25	-16.35	-0.00883	2.5
				10	1851.25	-15.36	-0.0083	2.5
				20	1851.25	-18.42	-0.00995	2.5
				30	1851.25	-16.23	-0.00877	2.5
				40	1851.25	-17.36	-0.00938	2.5
				50	1851.25	-12.30	-0.00664	2.5
			VL	20	1851.25	-16.03	-0.00866	2.5
			VH	20	1851.25	-18.69	-0.0101	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xRTT	600	VN	-20	1880.0	-20.36	-0.01083	2.5
				-10	1880.0	-25.36	-0.01349	2.5
				0	1880.0	24.30	0.012926	2.5
				10	1880.0	-26.38	-0.01403	2.5
				20	1880.0	-28.25	-0.01503	2.5
				30	1880.0	-23.45	-0.01247	2.5
				40	1880.0	-27.30	-0.01452	2.5
				50	1880.0	-29.14	-0.0155	2.5
			VL	20	1880.0	-26.40	-0.01404	2.5
			VH	20	1880.0	-20.15	-0.01072	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xRTT	1175	VN	-20	1908.75	-23.56	-0.01234	2.5
				-10	1908.75	-25.15	-0.01318	2.5
				0	1908.75	-21.09	-0.01105	2.5
				10	1908.75	-36.26	-0.019	2.5
				20	1908.75	-35.15	-0.01842	2.5
				30	1908.75	-30.24	-0.01584	2.5
				40	1908.75	-38.15	-0.01999	2.5
				50	1908.75	-36.01	-0.01887	2.5
			VL	20	1908.75	-38.14	-0.01998	2.5
			VH	20	1908.75	-34.21	-0.01792	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xEv-DO (Rel.0)	25	VN	-20	1851.25	-40.59	-0.02193	2.5
				-10	1851.25	-42.63	-0.02303	2.5
				0	1851.25	-41.62	-0.02248	2.5
				10	1851.25	-45.26	-0.02445	2.5
				20	1851.25	-43.61	-0.02356	2.5
				30	1851.25	-45.85	-0.02477	2.5
				40	1851.25	-48.26	-0.02607	2.5
				50	1851.25	-47.15	-0.02547	2.5
			VL	20	1851.25	-43.25	-0.02336	2.5
			VH	20	1851.25	-46.02	-0.02486	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xEv-DO (Rel.0)	600	VN	-20	1880.0	-25.36	-0.01349	2.5
				-10	1880.0	-26.34	-0.01401	2.5
				0	1880.0	-24.20	-0.01287	2.5
				10	1880.0	-20.15	-0.01072	2.5
				20	1880.0	-23.41	-0.01245	2.5
				30	1880.0	-25.03	-0.01331	2.5
				40	1880.0	-26.30	-0.01399	2.5
				50	1880.0	-28.10	-0.01495	2.5
			VL	20	1880.0	-29.10	-0.01548	2.5
			VH	20	1880.0	-30.58	-0.01627	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xEv-DO (Rel.0)	1175	VN	-20	1908.75	-10.29	-0.00539	2.5
				-10	1908.75	-12.39	-0.00649	2.5
				0	1908.75	-12.48	-0.00654	2.5
				10	1908.75	-16.30	-0.00854	2.5
				20	1908.75	-15.82	-0.00829	2.5
				30	1908.75	-13.52	-0.00708	2.5
				40	1908.75	-16.20	-0.00849	2.5
				50	1908.75	-16.48	-0.00863	2.5
			VL	20	1908.75	-16.20	-0.00849	2.5
			VH	20	1908.75	-13.02	-0.00682	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xEv-DO (Rel.A)	25	VN	-20	1851.25	-24.16	-0.01305	2.5
				-10	1851.25	-24.56	-0.01327	2.5
				0	1851.25	-20.36	-0.011	2.5
				10	1851.25	-26.02	-0.01406	2.5
				20	1851.25	-23.15	-0.01251	2.5
				30	1851.25	-20.34	-0.01099	2.5
				40	1851.25	-20.36	-0.011	2.5
				50	1851.25	-20.25	-0.01094	2.5
			VL	20	1851.25	-26.35	-0.01423	2.5
			VH	20	1851.25	-25.19	-0.01361	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xEv-DO (Rel.A)	600	VN	-20	1880.0	-18.90	-0.01005	2.5
				-10	1880.0	-18.40	-0.00979	2.5
				0	1880.0	-20.56	-0.01094	2.5
				10	1880.0	-21.58	-0.01148	2.5
				20	1880.0	-21.03	-0.01119	2.5
				30	1880.0	-17.56	-0.00934	2.5
				40	1880.0	-15.26	-0.00812	2.5
				50	1880.0	-13.20	-0.00702	2.5
			VL	20	1880.0	-15.56	-0.00828	2.5
			VH	20	1880.0	-16.52	-0.00879	2.5
VERDICT				PASS				

Band	Mode	Channel	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		F-RC	Voltage (V)	Temp (℃)				
BC1	1xEv-DO (Rel.A)	1175	VN	-20	1908.75	-26.35	-0.0138	2.5
				-10	1908.75	-26.50	-0.01388	2.5
				0	1908.75	-26.90	-0.01409	2.5
				10	1908.75	-28.60	-0.01498	2.5
				20	1908.75	-29.50	-0.01546	2.5
				30	1908.75	-16.05	-0.00841	2.5
				40	1908.75	-16.05	-0.00841	2.5
				50	1908.75	-20.58	-0.01078	2.5
			VL	20	1908.75	-20.39	-0.01068	2.5
			VH	20	1908.75	-21.48	-0.01125	2.5
VERDICT				PASS				

APPENDIX H: TEST DATA FOR PEAK TO AVERAGE RATIO

Band	Mode	Channel F-RC	Freq. (MHz)	P. A .R (dB)	Limit (dB)	Verdict
BC1	1xRTT	25	1851.25	3.45	13	Pass
		600	1880.0	3.68	13	Pass
		1175	1908.75	3.77	13	Pass
	1xEv-DO(Rel.0)	25	1851.25	3.15	13	Pass
		600	1880.0	3.42	13	Pass
		1175	1908.75	3.68	13	Pass
	1xEv-DO(Rel.A)	25	1851.25	3.14	13	Pass
		600	1880.0	3.68	13	Pass
		1175	1908.75	3.48	13	Pass

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

END OF REPORT